**APPENDIX O**
**ARI REPORT – CONGENER SPLIT SAMPLE ANALYSES**
**ARI Work Order No. 17C0436**
**April 24, 2017**

**REMEDIAL INVESTIGATION REPORT**
**ICS/NWC RI/FS**
**SEATTLE, WASHINGTON**
**October 2025**

Note: ARI completed analyses for total calcium, magnesium, sodium, sulfate, TOC, and DOC. AXYS Analytical Services, Ltd. completed the congener analyses.

**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

24 April 2017

Matt Dalton
Dalton, Olmsted & Fuglevand, Inc
6034 N Star Rd
Ferndale, WA 98248

RE: ICS-Former NW Cooperage

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

| Associated Work Order(s) | Associated SDG ID(s) |
|---|---|
| 17C0436 | N/A |

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the reqirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Amanda Volgardsen, Project Management Assistant

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006

PJLA Testing
Accreditation # 66169

4611 S. 134th Place, Suite 100 • Tukwila, WA 98168 • Ph: (206) 695-6200 • Fax: (206) 695-6202

## Chain of Custody Record & Laboratory Analysis Request

| ARI Assigned Number: | Turn-around Requested: | Date: |
|---|---|---|
| 17C0436 | Normal | 3/30/17 |

| ARI Client Company: | Phone: | Page: | of |
|---|---|---|---|
| Dalton Olmsted & Fuglevand | 206-660-3466 | 1 | 1 |

| Client Contact: | No. of Coolers: | Cooler Temps: |
|---|---|---|
| Matt Dalton / Dave Cooper | | |

| Client Project Name: | Client Project #: | Samplers: |
|---|---|---|
| ICS / Former NW Cooperage | SUM-008 | DG Cooper |


**Analytical Resources, Incorporated**
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)


| Sample ID | Date | Time | Matrix | No. Containers | Analysis Requested: Total Ca, Mg, Na | Sulfate | TOC | DOC* | PCB Congeners** | | | | | | | Notes/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICS-DOFMW1-W-032917 | 3/29/2017 | 1600 | water | 6 | X | X | X | X | X | | | | | | | |
| ICS-SAMW2-W-032917 | 3/29/2017 | 1340 | water | 6 | X | X | X | X | X | | | | | | | |
| ICS-DOFMW3-W-032917 | 3/29/2017 | 1025 | water | 6 | X | X | X | X | X | | | | | | | |
| Trip Blank | 3/30/2017 | - | water | 3 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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Comments/Special Instructions

* DOC field filtered 0.45um
** PCB Congeners by AXYS

| | Relinquished by: | Received by: | Relinquished by: | Received by: |
|---|---|---|---|---|
| (Signature) | | Paul Mark | | |
| Printed Name: | DG Cooper | Paul Mark | | |
| Company: | DOF | ARI | | |
| Date & Time: | 3/30/17 1035 | 3/30/2017 10:35 | | |

***Limits of Liability:*** *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

**Sample Retention Policy:** Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

# Cooler Receipt Form

ARI Client: Dalton Olmsted Fuglevand

Project Name: ICS/Former NW Cooperage

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 17C0436

Tracking No: _____ NA

**Preliminary Examination Phase:**

| | | |
|---|---|---|
| Were intact, properly signed and dated custody seals attached to the outside of to cooler? | YES | (NO) |
| Were custody papers included with the cooler? | (YES) | NO |
| Were custody papers properly filled out (ink, signed, etc.) | (YES) | NO |

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry): 4.8

Time: _____

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005276

Cooler Accepted by: PM Date: 3/30/2017 Time: 10:35

*Complete custody forms and attach all shipping documents*

## Log-In Phase:

| | | | |
|---|---|---|---|
| Was a temperature blank included in the cooler? | | YES | (NO) |
| What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____ | | | |
| Was sufficient ice used (if appropriate)? | NA | (YES) | NO |
| Were all bottles sealed in individual plastic bags? | | YES | (NO) |
| Did all bottles arrive in good condition (unbroken)? | | (YES) | NO |
| Were all bottle labels complete and legible? | | YES | (NO) |
| Did the number of containers listed on COC match with the number of containers received? | | YES | (NO) |
| Did all bottle labels and tags agree with custody papers? | | YES | (NO) |
| Were all bottles used correct for the requested analyses? | | (YES) | NO |
| Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... | NA | (YES) | NO |
| Were all VOC vials free of air bubbles? | NA | (YES) | NO |
| Was sufficient amount of sample sent in each bottle? | | (YES) | NO |
| Date VOC Trip Blank was made at ARI | NA | 3/30/17 | |

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: B.H. Date: 3/30/17 Time: 11:40

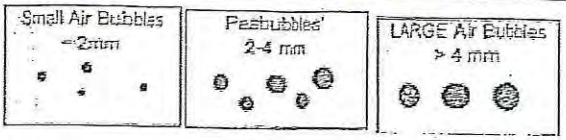
*** Notify Project Manager of discrepancies or concerns ***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

*Additional Notes, Discrepancies, & Resolutions:*

Trip blanks missing labels. One trip blank vial was not received. Sampling year missing on all labels. No analyses on COC that can be conducted with trip blanks

By: B.H. Date: 3/30/17




Small → "sm" (< 2 mm)

Peabubbles → "pb" (2 to < 4 mm)

Large → "lg" (4 to < 6 mm)

Headspace → "hs" (> 6 mm)

**WORK ORDER**

17C0436

**Client:** Dalton, Olmsted & Fuglevand, Inc
**Project Manager:** Amanda Volgardsen
**Project:** ICS-NW Cooperage
**Project Number:** ICS-NW Cooperage

## Preservation Confirmation

| Container ID | Container Type | pH |
|---|---|---|
| 17C0436-01 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-01 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-01 C | Small OJ, 500 mL | |
| 17C0436-01 D | HDPE NM, 500 mL, 1:1 HNO3 | <2 Pass |
| 17C0436-01 E | Glass NM, Amber, 1000 mL | |
| 17C0436-01 F | Glass NM, Amber, 1000 mL | |
| 17C0436-02 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-02 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-02 C | Small OJ, 500 mL | |
| 17C0436-02 D | HDPE NM, 500 mL, 1:1 HNO3 | <2 Pass |
| 17C0436-02 E | Glass NM, Amber, 1000 mL | |
| 17C0436-02 F | Glass NM, Amber, 1000 mL | |
| 17C0436-03 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-03 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-03 C | Small OJ, 500 mL | |
| 17C0436-03 D | HDPE NM, 500 mL, 1:1 HNO3 | B.H. >X 2 Fail |
| 17C0436-03 E | Glass NM, Amber, 1000 mL | |
| 17C0436-03 F | Glass NM, Amber, 1000 mL | |

B.H.
Preservation Confirmed By

3/30/17
Date

B.H
Reviewed By

3/30/17
Date

**Analytical Resources, Incorporated**
**Analytical Chemists and Consultants**

**SUBCONTRACT ORDER**
**To: AXYS Analytical Services Ltd.**
# ARI Work Order:17C0436

**SENDING LABORATORY:**

Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168
Phone: (206) 695-6200
Fax: (206) 695-6201
Project Manager: Amanda Volgardsen

**RECEIVING LABORATORY:**

AXYS Analytical Services Ltd.
2045 Mills Road W.
Sydney, BC V8L 3S8
Phone :(250) 655-5800
Fax: -

| Analysis | Due | Expires | Sub Laboratory ID | Comments |
|---|---|---|---|---|
| **Sample ID: 17C0436-01** | **Water** | **Sampled:29-Mar-2017 16:0** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 16:0( | | |
| *Containers Supplied:* | | | | |
| **17C0436-01 E** Glass NM, Amber, 1000 mL | **17C0436-01 F** Glass NM, Amber, 1000 mL | | | |
| **Sample ID: 17C0436-02** | **Water** | **Sampled:29-Mar-2017 13:4** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 13:4( | | |
| *Containers Supplied:* | | | | |
| **17C0436-02 E** Glass NM, Amber, 1000 mL | **17C0436-02 F** Glass NM, Amber, 1000 mL | | | |
| **Sample ID: 17C0436-03** | **Water** | **Sampled:29-Mar-2017 10:2** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 10:2: | | |
| *Containers Supplied:* | | | | |
| **17C0436-03 E** Glass NM, Amber, 1000 mL | **17C0436-03 F** Glass NM, Amber, 1000 mL | | | |

| Released By | Date | Received By | Date |
|---|---|---|---|
| Released By | Date | Received By | Date |

**WORK ORDER**

17C0436

| | |
|---|---|
| **Client:** Dalton, Olmsted & Fuglevand, Inc | **Project Manager:** Amanda Volgardsen |
| **Project:** ICS-NW Cooperage | **Project Number:** ICS-NW Cooperage |

## Preservation Confirmation

| Container ID | Container Type | pH |
|---|---|---|
| 17C0436-01 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-01 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-01 C | Small OJ, 500 mL | |
| 17C0436-01 D | HDPE NM, 500 mL, 1:1 HNO3 | <2 Pass |
| 17C0436-01 E | Glass NM, Amber, 1000 mL | |
| 17C0436-01 F | Glass NM, Amber, 1000 mL | |
| 17C0436-02 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-02 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-02 C | Small OJ, 500 mL | |
| 17C0436-02 D | HDPE NM, 500 mL, 1:1 HNO3 | <2 Pass |
| 17C0436-02 E | Glass NM, Amber, 1000 mL | |
| 17C0436-02 F | Glass NM, Amber, 1000 mL | |
| 17C0436-03 A | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-03 B | Glass NM, Amber, 250 mL, 9N H2SO4 | <2 Pass |
| 17C0436-03 C | Small OJ, 500 mL | |
| 17C0436-03 D | HDPE NM, 500 mL, 1:1 HNO3 | B.H. >X 2 Fail |
| 17C0436-03 E | Glass NM, Amber, 1000 mL | |
| 17C0436-03 F | Glass NM, Amber, 1000 mL | |

DFC0770

B.H.
Preservation Confirmed By

3/30/17
Date

preserved

B.H
Reviewed By

3/30/17
Date

| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| ICS-DOFMW1-W-032917 | 17C0436-01 | Water | 29-Mar-2017 16:00 | 30-Mar-2017 10:35 |
| ICS-SAMW2-W-032917 | 17C0436-02 | Water | 29-Mar-2017 13:40 | 30-Mar-2017 10:35 |
| ICS-DOFMW3-W-032917 | 17C0436-03 | Water | 29-Mar-2017 10:25 | 30-Mar-2017 10:35 |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

# Case Narrative

**Sample receipt**

Samples as listed on the preceding page were received March 30, 2017 under ARI workorder 17C0436. For details regarding sample receipt, please refer to the Cooler Receipt Form. The PCB Congener analysis was subcontracted to Axys Analytical in Sidney, British Columbia.

**Total Metals - EPA Method 6010C**

The samples were digested and analyzed within the recommended holding times.

Method blank BFC0770 has Calcium and Sodium detected below the reporting limits. These metals have been flagged with an "J" qualifier on the method blank. No further corrective action was taken.

The LCS percent recoveries were within control limits.

A matrix spike and duplicate were prepared in conjunction with sample ICS-DOFMW1-W-032917. The duplicate RPD were within control limits. The matrix spike has natural concentrations of Magnesium and Sodium that are so much greater than the concentration spiked that an accurate determination of spike recovery is not possible. These metals have been flagged with an "HC" qualifier on the matrix spike. No further corrective action was taken.

There were no other anomalies associated with the analysis.

**Total and Dissolved Organic Carbon - EPA Method 9060A**

The samples were prepared and analyzed within the recommended holding times.

There were no target compounds detected in the method blanks.

The LCS percent recoveries were within control limits.

A matrix spike and duplicate were prepared in conjunction with sample ICS-DOFMW1-W-032917. The matrix spike percent recoveries and duplicate RPD were within control limits.

There were no anomalies associated with the analysis.

**Sulfate - EPA Method 300.0**

The samples were prepared and analyzed within the recommended holding times.

The samples were run at a dilution due to the appearance.

There were no target compounds detected in the method blank.



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

The LCS percent recoveries were within control limits.

A matrix spike and duplicate were prepared in conjunction with the re-analysis of sample ICS-DOFMW1-W-032917. The matrix spike percent recovery and duplicate RPD were within control limits.

There were no anomalies associated with the analysis.



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-DOFMW1-W-032917

**17C0436-01 (Water)**

Sampled: 03/29/2017 16:00

### Metals and Metallic Compounds

Sample Preparation: Preparation Method: TWC EPA 3010A
Preparation Batch: BFC0770 Sample Size: 50 mL
Prepared: 03/30/2017 06:14 Final Volume: 50 mL

Analytical Method: EPA 6010C Instrument: ICP2 Analyzed: 04/11/2017 18:34

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | 1 | 0.0051 | 0.0500 | **80.0** | mg/L | |
| Magnesium | 7439-95-4 | 1 | 0.0160 | 0.0500 | **150** | mg/L | |
| Sodium | 7440-23-5 | 1 | 1.90 | 50.0 | **1480** | mg/L | |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-DOFMW1-W-032917

**17C0436-01 (Water)**

Sampled: 03/29/2017 16:00

### Wet Chemistry

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0836 Sample Size: 20 mL
Prepared: 03/31/2017 10:18 Final Volume: 20 mL

Analytical Method: EPA 9060A Instrument: TOC-LCSH Analyzed: 04/04/2017 18:37

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Dissolved Organic Carbon, Dissolved | | 2 | 1.00 | **40.8** | mg/L | D |

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Total Organic Carbon | | 2 | 1.00 | **43.1** | mg/L | D |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-DOFMW1-W-032917

**17C0436-01RE1 (Water)**

Sampled: 03/29/2017 16:00

### Wet Chemistry

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0807 Sample Size: 5 mL
Prepared: 03/30/2017 16:11 Final Volume: 5 mL

Analytical Method: EPA 300.0 Instrument: DX2100 Analyzed: 03/31/2017 19:49

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Sulfate | 14808-79-8 | 100 | 10.0 | **334** | mg/L | D |

| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-SAMW2-W-032917

**17C0436-02 (Water)**

Sampled: 03/29/2017 13:40

### Metals and Metallic Compounds

Sample Preparation: Preparation Method: TWC EPA 3010A
Preparation Batch: BFC0770 Sample Size: 50 mL
Prepared: 03/30/2017 06:14 Final Volume: 50 mL

Analytical Method: EPA 6010C Instrument: ICP2 Analyzed: 04/11/2017 20:05

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | 1 | 0.0051 | 0.0500 | **61.7** | mg/L | |
| Magnesium | 7439-95-4 | 1 | 0.0160 | 0.0500 | **49.4** | mg/L | |
| Sodium | 7440-23-5 | 1 | 1.90 | 50.0 | **535** | mg/L | |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-SAMW2-W-032917

**17C0436-02 (Water)**

Sampled: 03/29/2017 13:40

### Wet Chemistry

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0807 Sample Size: 5 mL
Prepared: 03/30/2017 16:11 Final Volume: 5 mL

Analytical Method: EPA 300.0 Instrument: DX2100 Analyzed: 03/30/2017 23:19

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Sulfate | 14808-79-8 | 20 | 2.00 | **69.2** | mg/L | D |

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0836 Sample Size: 20 mL
Prepared: 03/31/2017 10:18 Final Volume: 20 mL

Analytical Method: EPA 9060A Instrument: TOC-LCSH Analyzed: 04/04/2017 20:28

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Dissolved Organic Carbon, Dissolved | | 1 | 0.50 | **12.5** | mg/L | |

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Total Organic Carbon | | 1 | 0.50 | **13.5** | mg/L | |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-DOFMW3-W-032917

**17C0436-03 (Water)**

Sampled: 03/29/2017 10:25

### Metals and Metallic Compounds

Sample Preparation: Preparation Method: TWC EPA 3010A
Preparation Batch: BFC0770 Sample Size: 50 mL
Prepared: 03/30/2017 06:14 Final Volume: 50 mL

Analytical Method: EPA 6010C Instrument: ICP2 Analyzed: 04/11/2017 20:10

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|---|
| Calcium | 7440-70-2 | 1 | 0.0051 | 0.0500 | **23.4** | mg/L | |
| Magnesium | 7439-95-4 | 1 | 0.0160 | 0.0500 | **53.0** | mg/L | |
| Sodium | 7440-23-5 | 1 | 1.90 | 50.0 | **458** | mg/L | |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## ICS-DOFMW3-W-032917

**17C0436-03 (Water)**

Sampled: 03/29/2017 10:25

### Wet Chemistry

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0807 Sample Size: 5 mL
Prepared: 03/30/2017 16:11 Final Volume: 5 mL

Analytical Method: EPA 300.0 Instrument: DX2100 Analyzed: 03/30/2017 23:40

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Sulfate | 14808-79-8 | 20 | 2.00 | **2.92** | mg/L | D |

Sample Preparation: Preparation Method: No Prep Wet Chem
Preparation Batch: BFC0836 Sample Size: 20 mL
Prepared: 03/31/2017 10:18 Final Volume: 20 mL

Analytical Method: EPA 9060A Instrument: TOC-LCSH Analyzed: 04/04/2017 20:49

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Dissolved Organic Carbon, Dissolved | | 5 | 2.50 | **131** | mg/L | D |

| Analyte | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|---|---|---|---|---|---|---|
| Total Organic Carbon | | 5 | 2.50 | **134** | mg/L | D |



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| | | |
|---|---|---|
| Dalton, Olmsted & Fuglevand, Inc | Project: ICS-Former NW Cooperage | |
| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## Metals and Metallic Compounds - Quality Control

### Batch BFC0770 - TWC EPA 3010A

Instrument: ICP2

| QC Sample/Analyte | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (BFC0770-BLK1)** | | | | Prepared: 30-Mar-2017 Analyzed: 11-Apr-2017 18:26 | | | | | | | |
| Calcium | 0.0071 | 0.0051 | 0.0500 | mg/L | | | | | | | J |
| Magnesium | ND | 0.0160 | 0.0500 | mg/L | | | | | | | U |
| Sodium | 0.0780 | 0.0114 | 0.500 | mg/L | | | | | | | J |
| Sodium | ND | 1.90 | 50.0 | mg/L | | | | | | | U |
| **LCS (BFC0770-BS1)** | | | | Prepared: 30-Mar-2017 Analyzed: 11-Apr-2017 18:44 | | | | | | | |
| Calcium | 10.1 | 0.0051 | 0.0500 | mg/L | 10.0 | | 101 % | 80-120 | | | |
| Magnesium | 10.6 | 0.0160 | 0.0500 | mg/L | 10.0 | | 106 % | 80-120 | | | |
| Sodium | 11.6 | 0.0114 | 0.500 | mg/L | 10.0 | | 116 % | 80-120 | | | |
| Sodium | 10.6 | 1.90 | 50.0 | mg/L | 10.0 | | 106 % | 80-120 | | | J |
| **Duplicate (BFC0770-DUP1)** | | **Source: 17C0436-01** | | Prepared: 30-Mar-2017 Analyzed: 11-Apr-2017 18:30 | | | | | | | |
| Calcium | 81.2 | 0.0051 | 0.0500 | mg/L | | 80.0 | | | 1.59 | 20 | |
| Magnesium | 152 | 0.0160 | 0.0500 | mg/L | | 150 | | | 1.31 | 20 | |
| Sodium | 1480 | 0.0114 | 0.500 | mg/L | | 1430 | | | 3.10 | 20 | E |
| Sodium | 1520 | 1.90 | 50.0 | mg/L | | 1480 | | | 2.41 | 20 | |
| **Matrix Spike (BFC0770-MS1)** | | **Source: 17C0436-01** | | Prepared: 30-Mar-2017 Analyzed: 11-Apr-2017 18:39 | | | | | | | |
| Calcium | 91.9 | 0.0051 | 0.0500 | mg/L | 10.0 | 80.0 | 119 % | 75-125 | | | |
| Magnesium | 163 | 0.0160 | 0.0500 | mg/L | 10.0 | 150 | 128 % | 75-125 | | | HC |
| Sodium | 1500 | 0.0114 | 0.500 | mg/L | 10.0 | 1430 | 661 % | 75-125 | | | E |
| Sodium | 1490 | 1.90 | 50.0 | mg/L | 10.0 | 1480 | 74.8 % | 75-125 | | | HC |

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## Wet Chemistry - Quality Control

### Batch BFC0807 - No Prep Wet Chem

Instrument: DX2100

| QC Sample/Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (BFC0807-BLK1)** | | | Prepared: 30-Mar-2017 Analyzed: 30-Mar-2017 19:18 | | | | | | | |
| Sulfate | ND | 0.100 | mg/L | | | | | | | U |
| **LCS (BFC0807-BS1)** | | | Prepared: 30-Mar-2017 Analyzed: 30-Mar-2017 19:38 | | | | | | | |
| Sulfate | 3.02 | 0.100 | mg/L | 3.00 | | 101 % | 75-125 | | | |
| **Duplicate (BFC0807-DUP3)** | **Source: 17C0436-01RE1** | | Prepared: 30-Mar-2017 Analyzed: 31-Mar-2017 20:09 | | | | | | | |
| Sulfate | 333 | 10.0 | mg/L | | 334 | | | 0.05 | 20 | D |
| **Matrix Spike (BFC0807-MS3)** | **Source: 17C0436-01RE1** | | Prepared: 30-Mar-2017 Analyzed: 31-Mar-2017 20:29 | | | | | | | |
| Sulfate | 830 | 20.0 | mg/L | 500 | 334 | 99.2 % | 75-125 | | | D |

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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| | | |
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| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## Wet Chemistry - Quality Control

### Batch BFC0836 - No Prep Wet Chem

Instrument: TOC-LCSH

| QC Sample/Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Blank (BFC0836-BLK1)** | | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 16:54 | | | | | | | |
| Dissolved Organic Carbon | ND | 0.50 | mg/L | | | | | | | U |
| Total Organic Carbon | ND | 0.50 | mg/L | | | | | | | U |
| **LCS (BFC0836-BS1)** | | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 17:16 | | | | | | | |
| Dissolved Organic Carbon | 20.4 | 0.50 | mg/L | 20.0 | | 102 % | 90-110 | | | |
| Total Organic Carbon | 20.4 | 0.50 | mg/L | 20.0 | | 102 % | 90-110 | | | |
| **Duplicate (BFC0836-DUP1)** | **Source: 17C0436-01** | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 18:58 | | | | | | | |
| Dissolved Organic Carbon | 41.2 | 1.00 | mg/L | | 40.8 | | | 0.88 | 20 | D |
| **Duplicate (BFC0836-DUP2)** | **Source: 17C0436-01** | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 21:33 | | | | | | | |
| Total Organic Carbon | 42.9 | 1.00 | mg/L | | 43.1 | | | 0.40 | 20 | D |
| **Matrix Spike (BFC0836-MS1)** | **Source: 17C0436-01** | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 19:20 | | | | | | | |
| Dissolved Organic Carbon | 90.0 | 2.50 | mg/L | 60.0 | 40.8 | 82.0 % | 75-125 | | | D |

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Matrix Spike (BFC0836-MS2)** | **Source: 17C0436-01** | | Prepared: 31-Mar-2017 Analyzed: 04-Apr-2017 21:55 | | | | | | | |
| Total Organic Carbon | 92.2 | 2.50 | mg/L | 60.0 | 43.1 | 81.9 % | 75-125 | | | D |

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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| 6034 N Star Rd | Project Number: SUM-008 | **Reported:** |
| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## Certified Analyses included in this Report

| Analyte | Certifications |
|---|---|
| ***EPA 300.0 in Water*** | |
| Sulfate | DoD-ELAP,WADOE,WA-DW,NELAP |
| ***EPA 6010C in Water*** | |
| Calcium | WADOE,NELAP,DoD-ELAP |
| Magnesium | WADOE,NELAP,DoD-ELAP |
| Sodium | WADOE,NELAP,DoD-ELAP |
| Sodium-1 | DoD-ELAP |
| ***EPA 9060A in Water*** | |
| Dissolved Organic Carbon | WADOE |
| Total Organic Carbon | DoD-ELAP,WADOE,NELAP |

| Code | Description | Number | Expires |
|---|---|---|---|
| ADEC | Alaska Dept of Environmental Conservation | UST-033 | 05/06/2017 |
| CALAP | California Department of Public Health CAELAP | 2748 | 02/28/2018 |
| DoD-ELAP | DoD-Environmental Laboratory Accreditation Program | 66169 | 03/30/2017 |
| NELAP | ORELAP - Oregon Laboratory Accreditation Program | WA100006 | 05/11/2017 |
| WADOE | WA Dept of Ecology | C558 | 06/30/2017 |
| WA-DW | Ecology - Drinking Water | C558 | 06/30/2017 |



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| Ferndale, WA 98248 | Project Manager: Matt Dalton | 24-Apr-2017 10:26 |

## Notes and Definitions

| | |
|---|---|
| D | The reported value is from a dilution |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL) |
| HC | The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible |
| J | Estimated concentration value detected below the reporting limit. |
| U | This analyte is not detected above the applicable reporting or detection limit. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| [2C] | Indicates this result was quantified on the second column on a dual column analysis. |

SGS AXYS

2045 Mills Road West
Sidney, BC, Canada V8L5X2

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SGS AXYS Client No.: 4323

Client Address: Analytical Resources Incorporated
4611 South 134th Place, Suite 100
Tukwila, WA, USA, 98168

The SGS AXYS contact for these data is Georgina Brooks.

# PCB CONGENER ANALYSIS

## AQUEOUS SAMPLES

### PROJECT NAME: ICS – NW COOPERAGE

**Contract: 4323**
**Data Package Identification: DPWG59409**

**Analysis WG58451**

**4 May 2017**

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**ANALYTICAL RESOURCES INCORPORATED**
**AQUEOUS SAMPLES**

**PCB CONGENER ANALYSIS**
**SGS AXYS METHOD: MLA-010**
**4323:** L27062-1 to -3

**PROJECT NAME: ICS – NW COOPERAGE**

**04 May 2017**

## NARRATIVE

This narrative describes the analysis of three aqueous samples for the determination of polychlorinated biphenyl congeners (PCBs) and Aroclor equivalents by high-resolution gas chromatography/high-resolution mass spectrometry (HRGC/HRMS).

## SAMPLE RECEIPT AND STORAGE

The samples arrived at Axys on the 31$^{st}$ of March 2017. Details of sample conditions upon receipt are provided on the Sample Receiving Record forms included in the sample documentation section of this data package. The samples were stored at 4°C prior to extraction and analysis.

Some documentation discrepancies were noticed between the Chain of Custody record and the sample labels by the analyst during the login of the samples. The client was notified of discrepancies and the details of the action taken have been included in the Sample Documentation section of the data package.

## SAMPLE PREPARATION AND ANALYSIS

The samples were pretreated as documented in the Water Pretreatment Record forms included in this data package.

Extraction and analysis procedures were performed in accordance with '**USEPA Method 1668, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS**', as documented in Axys Method MLA-010. A summary of the method, MSU-010, with a list of modifications to the US EPA Method 1668A is included following this narrative.

The samples and QC samples (three procedural blanks and a known sample called Ongoing Precision and Recovery (OPR)) were extracted and analyzed in one batch named WG58451. The composition of the batch is shown on the Correlation Table and Batch List forms included in this Data Package. Ultra pure water was used as the matrix for the Lab Blanks and the OPR (AXYS IDs: WG58451-101, -103, -104 and -102, respectively).

For each sample, an accurately weighed subsample of approximately 1L was spiked with $^{13}$C-labeled quantification standards, and then centrifuged to separate the aqueous and particulate phases. The aqueous phase was liquid/liquid extracted using dichloromethane, the particulate phase using 80:20 toluene/acetone in a Soxhlet apparatus. The resulting aqueous- and solid-phase extracts were united and spiked with $^{13}$C-labeled cleanup standards and cleaned up using the standard chromatography columns listed on the extraction workup sheets. The cleaned extract was reduced in volume and spiked with labeled recovery (internal) standards prior to instrumental analysis. The final extract volume was 20µL, 1µL of which was injected onto the GC-MS.

## CALCULATIONS

Sample specific detection limits (SDLs) were calculated for each target analyte and used as the detection qualifier. If the OPUSquan software selected an unrepresentative area for the detection limit calculation, the data validation chemists corrected the SDLs; these corrections were hand noted on the quantification report pages and/or documented on the audit change reports.

Because of instrument variability and lab background levels, it is Axys' policy to impose a reporting limit of 0.5 pg absolute.

Homologue totals were obtained by summing the concentration of all detected congeners at each level of chlorination. Congener peaks that did not meet the method ion abundance ratio criteria were not included in the homologue totals and Toxic Equivalent (TEQ) calculations. TEQs were calculated using WHO-2005 TEFs.

## REPORTING CONVENTIONS

For internal tracking, Axys assigned ARI contract number 4323. Axys logged the sample under unique laboratory identifier L27062-X, where X is a numeral. The reports reference both the Axys and ARI sample identifiers. To assist in locating data, a table correlating Axys and ARI IDs is included.

Any extra work required and performed after the initial instrumental analysis of a sample extract is given an extra "test suffix" code. This single letter code per extra work performed is added to the AXYS sample ID as a suffix, and is combined with any other applicable test suffix codes. The extra work code used to report data in this package include:

| | | |
|---|---|---|
| i | = | instrumental re-analysis performed on the sample extract |

The following laboratory qualifier flags are used:

| | | |
|---|---|---|
| C | = | indicates the co-elution of two or more congeners |
| Cx | = | the congener flagged 'Cx' co-elutes with congener 'x', where 'x' denotes the IUPAC number of the numerically lowest congener of the co-elution. The result for the co-elution is reported against congener 'x'. |
| B | = | analyte found in the sample and the associated blank |
| U | = | not detected |
| K | = | a GC peak was detected that did not meet all the criteria for identification as the target analyte; the reported value is the estimated maximum possible concentration of analyte present. |
| J | = | indicates an estimated value where the concentration of the analyte is less than the LMCL but greater than the SDL |

Results are reported to three significant figures, in units of picograms per liter (pg/L).

## QA/QC NOTES

The procedural blank and OPR were prepared alongside the client samples, and subjected to the same analytical procedures. The sample data were evaluated in comparison to the batch QC samples.

- Sample data are not blank corrected and the data should be evaluated with consideration of the procedural blank results.
- By virtue of the isotope dilution/internal standard quantification procedures, data are recovery corrected for possible losses during extraction and clean up.
- All linearity, CAL/VER, OPR and labeled compound recovery specifications were met with the following exception:

The concentration of PCB-11 was observed to be above method specifications for the Lab Blanks (AXYS IDs: WG58451-103 and -104).

## ANALYTICAL DISCUSSION

The Lab Blanks, OPR and sample ICS-DOFMW3-W-032917 (AXYS IDs: WG58451-101, -103, -104, -102 and L27062-3) were instrumentally reanalyzed to confirm instrument calibration data or possible instrumental carry-

over. Not all samples were affected equally and the re-injection details are provided on the analysis workup sheets. All data have been reported from the instrumental re-analysis (indicated by suffix 'i' on the AXYS ID).

## DATA PACKAGE

This data package, assigned a unique identifier DPWG59409, includes:

- Method Summary
- Sample 'Correlation Table'
- Sample Receiving Documentation
- Sample Pretreatment Records
- Laboratory extraction worksheets
- Sample data reports (organized by Axys ID)
- Laboratory QC data reports
- Instrumental QC data reports (organized by analysis date)
- Audit Reports
- Sample raw data (organized by Axys ID)
- Laboratory QC raw data
- Instrumental QC raw data (organized by analysis date)
- Accreditation Scope

---

**I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. The following signature, on behalf of SGS AXYS Analytical Services Ltd, authorizes the release of the data contained in this data package.**



Signed: Shelley Honkanen,
Data Validation Chemist

04-May-2017
Date Signed

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## AXYS Analytical Services Ltd.

## SUMMARY OF AXYS METHOD MLA-010 REV. 11 VER. 06:

## ANALYTICAL METHOD FOR THE DETERMINATION OF 209 PCB CONGENERS BY EPA METHOD 1668A, EPA METHOD 1668C OR EPA METHOD CBC01.2

This analytical method determines the concentrations of all 209 PCB congeners in sediment, soil, sludge, tissue (including blood), aqueous samples, milk, solvent extracts, air samples and XAD-2 columns by high resolution gas chromatography and mass spectrometry (HRGC/HRMS). For EPA Method 1668A applications PCBs are reported using the congener numbering convention used in Method 1668A, for EPA Method 1668C and EPA Method CBC01.2 applications PCBs are reported using the congener numbering convention in EPA Method 1668C.

The concentrations of some PCB congeners are reported as the sum of two or more congeners due to coelution of the congeners. The coeluting congeners are listed below.

| *COELUTING PCB CONGENERS* | |
|---|---|
| PCB 12, 13 | PCB 93, 95, 98, 100, 102 |
| PCB 30, 18 | PCB 107, 124 (1668A) or PCB 108, 124 (1668C) |
| PCB 20, 28 | PCB 110, 115 |
| PCB 21, 33 | PCB 128, 166 |
| PCB 26, 29 | PCB 129, 138, 160, 163 |
| PCB 40, 41, 71 | PCB 134, 143 |
| PCB 44, 47, 65 | PCB 135, 151, 154 |
| PCB 45, 51 | PCB 139, 140 |
| PCB 49, 69 | PCB 147, 149 |
| PCB 50, 53 | PCB 156, 157[1] |
| PCB 59, 62, 75 | PCB 153, 168 |
| PCB 61, 70, 74, 76 | PCB 171, 173 |
| PCB 83, 99 | PCB 183,185 |
| PCB 85, 116, 117 | PCB 180, 193 |
| PCB 86, 87, 97 108, 119, 125 (1668A) or PCB 86, 87, 97 109, 119, 125 (1668C) | PCB 197, 200 |
| PCB 88, 91 | PCB 198, 199 |
| PCB 90, 101, 113 | |

[1] A second GC/MS analysis on a DB-1 column (30 m, 0.25 mm I.D., 0.25 μm film thickness) resolves the PCB 156/157 coeluting pair. This second analysis is performed upon request by the client.

The concentrations of all other PCB congeners are reported as the concentration of individual congeners.

A subset of congeners designated as "toxic" by the World Health Organization, can be reported with the associated toxic equivalents.

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| WHO TOXIC PCB CONGENERS | CONGENER NUMBER |
|---|---|
| 3,4,4',5-Tetrachlorobiphenyl (TeCB) | 81 |
| 3,3',4,4'-TCB | 77 |
| 2,3,3',4,4'-Pentachlorobiphenyl (PeCB) | 105 |
| 2,3,4,4',5-PeCB | 114 |
| 2,3',4,4',5-PeCB | 118 |
| 2',3,4,4',5-PeCB | 123 |
| 3,3',4,4',5-PeCB | 126 |
| 2,3,3',4,4',5-Hexachlorobiphenyl (HxCB) | 156 |
| 2,3,3',4,4',5'-HxCB | 157 |
| 2,3',4,4',5,5'-HxCB | 167 |
| 3,3',4,4',5,5'-HxCB | 169 |
| 2,3,3',4,4',5,5'-HpCB | 189 |

Upon client request, any subset of the 209 PCB congeners may be reported.

## 1.0 EXTRACTION AND CLEANUP PROCEDURES

All samples are spiked with $^{13}$C-labelled surrogate standards prior to extraction and extracted as per the table below. Optional extraction procedures are shown within parentheses.

| Matrix | Extraction |
|---|---|
| Aqueous | ≤1% suspended solids:<br>Liquid-liquid extraction with dichloromethane.<br><br>>1% suspended solids:<br>The sample is centrifuged prior to extraction and the particulate fraction is separately extracted by Soxhlet extraction with dichloromethane. The filtrate is liquid-liquid extracted with dichloromethane. The two extracts are then combined. |
| Solid (sediment, soil, sludge, particles on filter paper) | Soxhlet extraction with dichloromethane<br>(optional: Dean-Stark Soxhlet extraction with toluene) |
| Tissue | Soxhlet extraction with dichloromethane<br>(Optional: Base digestion and liquid-liquid extraction with hexane) |
| Whole blood/serum/plasma | Liquid-liquid extraction with ethanol:hexane:saturated ammonium sulphate. |
| Milk | Liquid-liquid extraction with acetone and hexane. |

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| | |
|---|---|
| XAD-2 column and filter | XAD-2 adsorbent is dried and Soxhlet extracted with dichloromethane (optional Dean-Stark Soxhlet extraction with toluene).<br>The filter is extracted by Dean-Stark Soxhlet extraction using toluene. |
| Ambient air (PUF and filter) | The PUF and filter(s) are Soxhlet extracted together using dichloromethane |
| Stationary Source Air Samples (Stack Gas sample trains) | The filter and XAD-2 adsorbent is dried and extracted by Soxhlet with toluene/acetone.<br>Equipment rinsates are collected, dried and transferred to the round bottom flask of the Soxhlet apparatus of the XAD-2 and filters and extracted. |

Extracts are routinely cleaned up using the following chromatography columns:

Multi-layered Acid/Base Silica
Alumina
Florisil

Extracts may additionally be cleaned up using some or all of the following procedures as necessary:

Column chromatography on Biobeads
Column chromatography on 4.5% carbon/Celite

## 2.0 INSTRUMENTATION

Instrumental analysis is performed on a SPB-Octyl capillary gas chromatographic column coupled to a high-resolution mass spectrometer (HRMS). Selected PFK ions are used as a reference for mass lock. Two masses from the molecular ion cluster are used to monitor each of the target analytes and $^{13}C$-labelled surrogate standards.

Upon client request resolution of the PCB 156/157 co-elution is achieved using a DB-1 chromatography column.

Analysis of the extract on either a DB-1 or DB-5 column is useful to resolve potential interferences with PCB 169 (from PCB 190).

## 3.0 CALIBRATION

Initial calibration is performed using a 5 or 6 point calibration series of solutions that encompass the working concentration range. Initial calibration solutions contain the suite of labelled surrogate and recovery standards and natives listed in the table below. Calibration procedures use the mean RRFs determined from the initial calibration to calculate analyte concentrations. Calibration is verified at least once every 12 hours by analysis of a mid-level calibration solution. The mid

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level calibration solution contains 209 PCB congeners and is used to establish the relative response factors and retention times for those PCB congeners not present in the multi-level standards solutions.

Alternately clients may request initial calibration be performed using a six point calibration series of solutions if lower detection limits are required (CS 0.2).

## Nominal Concentration of PCB Calibration Solutions

| | Congener No.[1] | Concentration (ng/mL) | | | | | | | Native Standard Amount added to sample |
|---|---|---|---|---|---|---|---|---|---|
| | | CS-0.2 | CS-1 | CS-2 | CS-3 | CS-4 | CS-5 | CS-6 | |
| **Native Compounds** | | | | | | | | | |
| 2-MoCB | 1 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | n.a. | 1000 pg |
| 4-MoCB | 3 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | n.a. | 1000 pg |
| 2,2'-DiCB | 4 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | n.a. | 1000 pg |
| 4,4'-DiCB | 15 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | n.a. | 1000 pg |
| 2,2',6-TriCB | 19 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,5-TriCB | 23 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2',3,5-TriCB | 34 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 3,4,4'-TriCB | 37 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',6,6'-TeCB | 54 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 3,3',4,4'-TeCB | 77 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 3,4,4',5-TeCB | 81 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',4,6,6'-PeCB | 104 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,3',4,4'-PeCB | 105 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,4,4',5-PeCB | 114 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3',4,4',5-PeCB | 118 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2',3,4,4',5-PeCB | 123 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 3,3',4,4',5-PeCB | 126 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',4,4',6,6'-HxCB | 155 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,3',4,4',5-HxCB | 156 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,3',4,4',5'-HxCB | 157 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3',4,4',5,5'-HxCB | 167 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 3,3',4,4',5,5'-HxCB | 169 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,3'4,4',5-HpCB | 170 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,4,4',5,5'-HpCB | 180 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,4,4',5,6'-HpCB | 182 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,4',5,5',6-HpCB | 187 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,4',5,6,6'-HpCB | 188 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,3',4,4',5,5'-HpCB | 189 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,3',5,5',6,6'-OcCB | 202 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,3,3',4,4',5,5',6-OcCB | 205 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,3',4,4',5,5',6-NoCB | 206 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,3',4,5,5',6,6'-NoCB | 208 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |
| 2,2',3,3',4,4',5,5',6,6'-DeCB | 209 | 0.2 | 1.0 | 5.0 | 50 | 400 | 2000 | 6000 | 1000 pg |

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| Surrogate Standards | | | | | | | | | Surrogate Standard Amount added to sample |
|---|---|---|---|---|---|---|---|---|---|
| $^{13}C_{12}$-2-MoCB | 1L[2] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-4-MoCB | 3L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2'-DiCB | 4L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-4,4'-DiCB | 15L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-3,4,4'-TriCB | 37L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',6,6'-TeCB | 54L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-3,3',4,4'-TeCB | 77L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-3,4,4',5-TeCB | 81L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',4,6,6'-PeCB | 104L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',4,4'-PeCB | 105L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,4,4',5-PeCB | 114L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3',4,4',5-PeCB | 118L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2',3,4,4',5-PeCB | 123L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-3,3',4,4',5-PeCB | 126L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',4,4',6,6'-HxCB | 155L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',4,4',5-HxCB | 156L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',4,4',5'-HxCB | 157L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3',4,4',5,5'-HxCB | 167L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-3,3',4,4',5,5'-HxCB | 169L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',4,4',5-HpCB | 170L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,4,4',5,5'-HpCB | 180L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB | 188L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB | 189L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB | 202L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB | 205L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB | 206L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| **Cleanup Standards** | | | | | | | | | |
| $^{13}C_{12}$-2,4,4'-TriCB | 28L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,3,3',5,5'-PeCB | 111L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',5,5',6-HpCB | 178L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| **Recovery Standards** | | | | | | | | | |
| $^{13}C_{12}$-2,5-DiCB | 9L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',5,5'-TeCB | 52L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',4',5,5'-PeCB | 101L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3',4,4',5'-HxCB | 138L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5'-OcCB | 194L | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2000 pg |

1 Suffix "L" indicates labelled compound.

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## 4.0 QUANTIFICATION PROCEDURES

### Analyte Identification

A chromatographic peak is identified as a target compound if the following criteria are met for the quantification and confirmation ions (where confirmation ions are available):

- Peak responses must be at least 2.5 times the background noise level.
- All peaks are acquired in the appropriate acquisition windows, when compared to the window standard.
- Peak centroids for the quantification and confirmation ions must coincide within two seconds.
- The relative ion abundance ratios must be within 15% of the expected ratio.

### Calculations

Refer to Section 17.0 of EPA Method 1668A or 1668C for details of quantitative determination.

Aroclor equivalent concentrations may be calculated by converting the summed concentrations of a suite of characteristic PCB congeners to concentrations using empirical factors determined from the analysis of Aroclor mixtures.

| | |
|---|---|
| Aroclor 1016[1] = | The sum of PCBs 8, 18/30, 31, 28/20 concentrations multiplied by 2.7; |
| Aroclor 1221 = | The sum of PCBs 1, 3, 8 concentrations multiplied by 1.4; |
| Aroclor 1232 = | The sum of PCBs 1, 3, 18/30 concentrations multiplied by 3.4; |
| Aroclor 1242[1] = | The sum of PCBs 8, 18/30, 31, 28/20 concentrations multiplied by 3.0; |
| Aroclor 1248 = | The sum of PCBs 44/47/65, 49/69, 66 concentrations multiplied by 6.1; |
| Aroclor 1254 = | The sum of PCBs 86/87/97/**108**/119/125, 83/99 concentrations multiplied by 8.0 (for EPA 1668A); OR The sum of PCBs 86/87/97/**109**/119/125, 83/99 concentrations multiplied by 8.0 (for EPA 1668C); |
| Aroclor 1260 = | The sum of PCBs 183/185, 180/193, 170 concentrations multiplied by 5.0; |

Environmental samples with no clearly identified Aroclor signature are quantified as 1242/1254/1260 mixtures. Results may be reported as Aroclor 1248 instead of Aroclor 1242 and 1254 where the congener pattern clearly indicates this formulation. Other Aroclor formulations may be reported by calibration against the specific Aroclor solutions.

[1] Aroclors 1016 and 1242 may be reported as combined 1016/1242 using the 1242 factor

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## AXYS Analytical Services Ltd.

### Analyte Retention Times, Surrogates Used and RRT Windows for 209 PCB's by HRGC/MS

| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 - MoCB | 1 | 2051-60-7 | 1L | | 11:34:00 | 1L | 11:34:00 | 1.000 | -1,3 | 0.999 | 1.004 |
| 3 - MoCB | 2 | 2051-61-8 | 1L/3L | | 13:38:00 | 3L | 13:48:00 | 0.988 | 6 | 0.984 | 0.992 |
| 4 - MoCB | 3 | 2051-62-9 | 3L | | 13:49:00 | 3L | 13:48:00 | 1.001 | -1,3 | 0.999 | 1.004 |
| 22' - DiCB | 4 | 13029-08-8 | 4L | | 14:04:00 | 4L | 14:03:00 | 1.001 | -1,3 | 0.999 | 1.004 |
| 26 - DiCB | 10 | 33146-45-1 | 4L/15L | | 14:14:00 | 4L | 14:03:00 | 1.013 | 6 | 1.009 | 1.017 |
| 25 - DiCB | 9 | 34883-39-1 | 4L/15L | | 16:06:00 | 4L | 14:03:00 | 1.146 | 6 | 1.142 | 1.149 |
| 24 - DiCB | 7 | 33284-50-3 | 4L/15L | | 16:16:00 | 4L | 14:03:00 | 1.158 | 6 | 1.154 | 1.161 |
| 23' - DiCB | 6 | 25569-80-6 | 4L/15L | | 16:31:00 | 4L | 14:03:00 | 1.176 | 6 | 1.172 | 1.179 |
| 23 - DiCB | 5 | 16605-91-7 | 4L/15L | | 16:49:00 | 4L | 14:03:00 | 1.197 | 6 | 1.193 | 1.200 |
| 24' - DiCB | 8 | 34883-43-7 | 4L/15L | | 16:58:00 | 4L | 14:03:00 | 1.208 | 6 | 1.204 | 1.211 |
| 35 - DiCB | 14 | 34883-41-5 | 4L/15L | | 18:39:00 | 15L | 20:08:00 | 0.926 | 6 | 0.924 | 0.929 |
| 33' - DiCB | 11 | 2050-67-1 | 4L/15L | | 19:32:00 | 15L | 20:08:00 | 0.970 | 6 | 0.968 | 0.973 |
| 34' - DiCB | 13 | 2974-90-5 | 4L/15L | 12 + 13 | | | | | | | |
| 34 - DiCB | 12 | 2974-92-7 | 4L/15L | 12 + 13 | 19:51:00 | 15L | 20:08:00 | 0.986 | 6 | 0.983 | 0.988 |
| 44' - DiCB | 15 | 2050-68-2 | 15L | | 20:09:00 | 15L | 20:08:00 | 1.001 | -1,3 | 0.999 | 1.002 |
| 22'6 - TriCB | 19 | 38444-73-4 | 19L | | 17:15:00 | 19L | 17:13:00 | 1.002 | -1,3 | 0.999 | 1.003 |
| 246 - TriCB | 30 | 35693-92-6 | 19L/37L | 18 + 30 | | | | | | | |
| 22'5 - TriCB | 18 | 37680-65-2 | 19L/37L | 18 + 30 | 19:09:00 | 19L | 17:13:00 | 1.112 | 6 | 1.109 | 1.115 |
| 22'4 - TriCB | 17 | 37680-66-3 | 19L/37L | | 19:36:00 | 19L | 17:13:00 | 1.138 | 6 | 1.136 | 1.141 |
| 23'6 - TriCB | 27 | 38444-76-7 | 19L/37L | | 19:50:00 | 19L | 17:13:00 | 1.152 | 6 | 1.149 | 1.155 |
| 236 - TriCB | 24 | 55702-45-9 | 19L/37L | | 19:58:00 | 19L | 17:13:00 | 1.160 | 6 | 1.157 | 1.163 |
| 22'3 - TriCB | 16 | 38444-78-9 | 19L/37L | | 20:05:00 | 19L | 17:13:00 | 1.167 | 6 | 1.164 | 1.169 |
| 24'6 - TriCB | 32 | 38444-77-8 | 19L/37L | | 20:37:00 | 19L | 17:13:00 | 1.197 | 6 | 1.195 | 1.200 |
| 2'35 - TriCB | 34 | 37680-68-5 | 19L/37L | | 21:56:00 | 19L | 17:13:00 | 1.274 | 6 | 1.271 | 1.277 |
| 235 - TriCB | 23 | 55720-44-0 | 19L/37L | | 22:06:00 | 19L | 17:13:00 | 1.284 | 6 | 1.281 | 1.287 |
| 245 - TriCB | 29 | 15862-07-4 | 19L/37L | 26 + 29 | | | | | | | |
| 23'5 - TriCB | 26 | 38444-81-4 | 19L/37L | 26 + 29 | 22:26:00 | 19L | 17:13:00 | 1.303 | 10 | 1.298 | 1.308 |
| 23'4 - TriCB | 25 | 55712-37-3 | 19L/37L | | 22:40:00 | 37L | 27:27:00 | 0.826 | 6 | 0.824 | 0.828 |
| 24'5 - TriCB | 31 | 16606-02-3 | 19L/37L | | 22:59:00 | 37L | 27:27:00 | 0.837 | 6 | 0.835 | 0.839 |

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| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244' - TriCB | 28 | 7012-37-5 | 19L/37L | 20 + 28 | | | | | | | |
| 233' - TriCB | 20 | 38444-84-7 | 19L/37L | 20 + 28 | 23:18:00 | 37L | 27:27:00 | 0.849 | 10 | 0.846 | 0.852 |
| 234 - TriCB | 21 | 55702-46-0 | 19L/37L | 21 + 33 | 23:30:00 | 37L | 27:27:00 | 0.856 | 10 | 0.853 | 0.859 |
| 2'34 - TriCB | 33 | 38444-86-9 | 19L/37L | 21 + 33 | | | | | | | |
| 234' - TriCB | 22 | 38444-85-8 | 19L/37L | | 23:57:00 | 37L | 27:27:00 | 0.872 | 6 | 0.871 | 0.874 |
| 33'5 - TriCB | 36 | 38444-87-0 | 19L/37L | | 25:35:00 | 37L | 27:27:00 | 0.932 | 6 | 0.930 | 0.934 |
| 34'5 - TriCB | 39 | 38444-88-1 | 19L/37L | | 25:58:00 | 37L | 27:27:00 | 0.946 | 6 | 0.944 | 0.948 |
| 345 - TriCB | 38 | 53555-66-1 | 19L/37L | | 26:33:00 | 37L | 27:27:00 | 0.967 | 6 | 0.965 | 0.969 |
| 33'4 - TriCB | 35 | 37680-69-6 | 19L/37L | | 27:03:00 | 37L | 27:27:00 | 0.985 | 6 | 0.984 | 0.987 |
| 344' - TriCB | 37 | 38444-90-5 | 37L | | 27:28:00 | 37L | 27:27:00 | 1.001 | -1,3 | 0.999 | 1.002 |
| 22'66' - TeCB | 54 | 15968-05-5 | 54L | | 20:25:00 | 54L | 20:25:00 | 1.000 | -1,3 | 0.999 | 1.002 |
| 22'46 - TeCB | 50 | 62796-65-0 | 54L/81L/77L | 50 + 53 | 22:41:00 | 54L | 20:25:00 | 1.111 | 10 | 1.107 | 1.115 |
| 22'56' - TeCB | 53 | 41464-41-9 | 54L/81L/77L | 50 + 53 | | | | | | | |
| 22'36 - TeCB | 45 | 70362-45-7 | 54L/81L/77L | 45 + 51 | 23:24:00 | 54L | 20:25:00 | 1.146 | 10 | 1.142 | 1.150 |
| 22'46' - TeCB | 51 | 68194-04-7 | 54L/81L/77L | 45 + 51 | | | | | | | |
| 22'36' - TeCB | 46 | 41464-47-5 | 54L/81L/77L | | 23:41:00 | 54L | 20:25:00 | 1.160 | 6 | 1.158 | 1.162 |
| 22'55' - TeCB | 52 | 35693-99-3 | 54L/81L/77L | | 25:11:00 | 54L | 20:25:00 | 1.233 | 6 | 1.231 | 1.236 |
| 23'5'6 - TeCB | 73 | 74338-23-1 | 54L/81L/77L | | 25:20:00 | 54L | 20:25:00 | 1.241 | 6 | 1.238 | 1.243 |
| 22'35 - TeCB | 43 | 70362-46-8 | 54L/81L/77L | | 25:26:00 | 54L | 20:25:00 | 1.246 | 6 | 1.243 | 1.248 |
| 23'46 - TeCB | 69 | 60233-24-1 | 54L/81L/77L | 49 + 69 | | | | | | | |
| 22'45' - TeCB | 49 | 41464-40-8 | 54L/81L/77L | 49 + 69 | 25:40:00 | 54L | 20:25:00 | 1.257 | 10 | 1.253 | 1.261 |
| 22'45 - TeCB | 48 | 70362-47-9 | 54L/81L/77L | | 25:59:00 | 54L | 20:25:00 | 1.273 | 6 | 1.270 | 1.275 |
| 2356 - TeCB | 65 | 33284-54-7 | 54L/81L/77L | 44 + 47 + 65 | | | | | | | |
| 22'44' - TeCB | 47 | 2437-79-8 | 54L/81L/77L | 44 + 47 + 65 | | | | | | | |
| 22'35' - TeCB | 44 | 41464-39-5 | 54L/81L/77L | 44 + 47 + 65 | 26:14:00 | 54L | 20:25:00 | 1.285 | 10 | 1.281 | 1.289 |
| 2346 - TeCB | 62 | 54230-22-7 | 54L/81L/77L | 59 + 62 + 75 | | | | | | | |
| 244'6 - TeCB | 75 | 32598-12-2 | 54L/81L/77L | 59 + 62 + 75 | | | | | | | |
| 233'6 - TeCB | 59 | 74472-33-6 | 54L/81L/77L | 59 + 62 + 75 | 26:34:00 | 54L | 20:25:00 | 1.301 | 10 | 1.297 | 1.305 |
| 22'34' - TeCB | 42 | 36559-22-5 | 54L/81L/77L | | 26:45:00 | 54L | 20:25:00 | 1.310 | 6 | 1.308 | 1.313 |
| 22'34 - TeCB | 41 | 52663-59-9 | 54L/81L/77L | 40 + 41 + 71 | | | | | | | |
| 23'4'6 - TeCB | 71 | 41464-46-4 | 54L/81L/77L | 40 + 41 + 71 | | | | | | | |

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| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'33' - TeCB | 40 | 38444-93-8 | 54L/81L/77L | 40 + 41 + 71 | 27:14:00 | 54L | 20:25:00 | 1.334 | 10 | 1.330 | 1.338 |
| 234'6 - TeCB | 64 | 52663-58-8 | 54L/81L/77L | | 27:31:00 | 54L | 20:25:00 | 1.348 | 6 | 1.345 | 1.350 |
| 23'55' - TeCB | 72 | 41464-42-0 | 54L/81L/77L | | 28:24:00 | 81L | 34:31:00 | 0.823 | 6 | 0.821 | 0.824 |
| 23'45' - TeCB | 68 | 73575-52-7 | 54L/81L/77L | | 28:42:00 | 81L | 34:31:00 | 0.831 | 6 | 0.830 | 0.833 |
| 233'5 - TeCB | 57 | 70424-67-8 | 54L/81L/77L | | 29:09:00 | 81L | 34:31:00 | 0.845 | 6 | 0.843 | 0.846 |
| 233'5' - TeCB | 58 | 41464-49-7 | 54L/81L/77L | | 29:23:00 | 81L | 34:31:00 | 0.851 | 6 | 0.850 | 0.853 |
| 23'45 - TeCB | 67 | 73575-53-8 | 54L/81L/77L | | 29:34:00 | 81L | 34:31:00 | 0.857 | 6 | 0.855 | 0.858 |
| 234'5 - TeCB | 63 | 74472-34-7 | 54L/81L/77L | | 29:50:00 | 81L | 34:31:00 | 0.864 | 6 | 0.863 | 0.866 |
| 2345 - TeCB | 61 | 33284-53-6 | 54L/81L/77L | 61 + 70 + 74 + 76 | 30:11:00 | 81L | 34:31:00 | 0.874 | 12 | 0.872 | 0.877 |
| 23'4'5 - TeCB | 70 | 32598-11-1 | 54L/81L/77L | 61 + 70 + 74 + 76 | | | | | | | |
| 2'345 - TeCB | 76 | 70362-48-0 | 54L/81L/77L | 61 + 70 + 74 + 76 | | | | | | | |
| 244'5 - TeCB | 74 | 32690-93-0 | 54L/81L/77L | 61 + 70 + 74 + 76 | | | | | | | |
| 23'44' - TeCB | 66 | 32598-10-0 | 54L/81L/77L | | 30:32:00 | 81L | 34:31:00 | 0.885 | 6 | 0.883 | 0.886 |
| 233'4 - TeCB | 55 | 74338-24-2 | 54L/81L/77L | | 30:41:00 | 81L | 34:31:00 | 0.889 | 6 | 0.887 | 0.890 |
| 233'4' - TeCB | 56 | 41464-43-1 | 54L/81L/77L | | 31:13:00 | 81L | 34:31:00 | 0.904 | 6 | 0.903 | 0.906 |
| 2344' - TeCB | 60 | 33025-41-1 | 54L/81L/77L | | 31:27:00 | 81L | 34:31:00 | 0.911 | 6 | 0.910 | 0.913 |
| 33'55' - TeCB | 80 | 33284-52-5 | 54L/81L/77L | | 31:54:00 | 81L | 34:31:00 | 0.924 | 6 | 0.923 | 0.926 |
| 33'45' - TeCB | 79 | 41464-48-6 | 54L/81L/77L | | 33:29:00 | 81L | 34:31:00 | 0.970 | 6 | 0.969 | 0.972 |
| 33'45 - TeCB | 78 | 70362-49-1 | 54L/81L/77L | | 34:05:00 | 81L | 34:31:00 | 0.987 | 6 | 0.986 | 0.989 |
| 344'5 - TeCB | 81 | 70362-50-4 | 81L | | 34:32:00 | 81L | 34:31:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 33'44' - TeCB | 77 | 32598-13-3 | 77L | | 35:08:00 | 77L | 35:07:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 22'466' - PeCB | 104 | 56558-16-8 | 104L | | 26:10:00 | 104L | 26:08:00 | 1.001 | -1,3 | 0.999 | 1.002 |
| 22'366' - PeCB | 96 | 73575-54-9 | 104L/123L/114L/ 118L/105L | | 26:32:00 | 104L | 26:08:00 | 1.015 | 10 | 1.012 | 1.018 |
| 22'45'6 - PeCB | 103 | 60145-21-3 | 104L/123L/114L/ 118L/105L | | 28:34:00 | 104L | 26:08:00 | 1.093 | 6 | 1.091 | 1.095 |
| 22'356' - PeCB | 94 | 73575-55-0 | 104L/123L/114L/ 118L/105L | | 28:48:00 | 104L | 26:08:00 | 1.102 | 6 | 1.100 | 1.104 |
| 22'35'6 - PeCB | 95 | 38379-99-6 | 104L/123L/114L/ 118L/105L | 93 + 95 + 98 + 100 + 102 | | | | | | | |
| 22'44'6 - PeCB | 100 | 39485-83-1 | 104L/123L/114L/ 118L/105L | 93 + 95 + 98 + 100 + 102 | | | | | | | |
| 22'356 - PeCB | 93 | 73575-56-1 | 104L/123L/114L/ 118L/105L | 93 + 95 + 98 + 100 + 102 | 29:31:00 | 104L | 26:08:00 | 1.129 | 34 * | 1.123 | 1.136 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'456' - PeCB | 102 | 68194-06-9 | 104L/123L/114L/ 118L/105L | 93 + 95 + 98 + 100 + 102 | | | | | | | |
| 22'3'46 - PeCB | 98 | 60233-25-2 | 104L/123L/114L/ 118L/105L | 93 + 95 + 98 + 100 + 102 | | | | | | | |
| 22'346 - PeCB | 88 | 55215-17-3 | 104L/123L/114L/ 118L/105L | 88 + 91 | 30:07:00 | 104L | 26:08:00 | 1.152 | 12 | 1.149 | 1.156 |
| 22'34'6 - PeCB | 91 | 68194-05-8 | 104L/123L/114L/ 118L/105L | 88 + 91 | | | | | | | |
| 22'33'6 - PeCB | 84 | 52663-60-2 | 104L/123L/114L/ 118L/105L | | 30:23:00 | 104L | 26:08:00 | 1.163 | 6 | 1.161 | 1.165 |
| 22'346' - PeCB | 89 | 73575-57-2 | 104L/123L/114L/ 118L/105L | | 30:53:00 | 104L | 26:08:00 | 1.182 | 6 | 1.180 | 1.184 |
| 23'45'6 - PeCB | 121 | 56558-18-0 | 104L/123L/114L/ 118L/105L | | 31:20:00 | 104L | 26:08:00 | 1.199 | 6 | 1.197 | 1.201 |
| 22'355' - PeCB | 92 | 52663-61-3 | 104L/123L/114L/ 118L/105L | | 31:44:00 | 123L | 37:12:00 | 0.853 | 6 | 0.852 | 0.854 |
| 233'5'6 - PeCB | 113 | 68194-10-5 | 104L/123L/114L/ 118L/105L | 90 + 101 + 113 | | | | | | | |
| 22'34'5 - PeCB | 90 | 68194-07-0 | 104L/123L/114L/ 118L/105L | 90 + 101 + 113 | 32:19:00 | 123L | 37:12:00 | 0.869 | 10 | 0.866 | 0.871 |
| 22'455' - PeCB | 101 | 37680-73-2 | 104L/123L/114L/ 118L/105L | 90 + 101 + 113 | | | | | | | |
| 22'33'5 - PeCB | 83 | 60145-20-2 | 104L/123L/114L/ 118L/105L | 83 + 99 | 32:53:00 | 123L | 37:12:00 | 0.884 | 12 | 0.881 | 0.887 |
| 22'44'5 - PeCB | 99 | 38380-01-7 | 104L/123L/114L/ 118L/105L | 83 + 99 | | | | | | | |
| 233'56 - PeCB | 112 | 74472-36-9 | 104L/123L/114L/ 118L/105L | | 33:04:00 | 123L | 37:12:00 | 0.889 | 6 | 0.888 | 0.890 |
| 23'44'6 - PeCB | | | | | | | | | | | |
| 233'45' - PeCB | See following tables for information specific to EPA 1668A or 1668C | | | | | | | | | | |
| 22'345 - PeCB | | | | | | | | | | | |
| 22'3'45 - PeCB | | | | | | | | | | | |
| 2'3456' - PeCB | | | | | | | | | | | |
| 22'345' - PeCB | | | | | | | | | | | |
| 234'56 - PeCB | 117 | 68194-11-6 | 104L/123L/114L/ 118L/105L | 85 + 116 + 117 | | | | | | | |
| 23456 - PeCB | 116 | 18259-05-7 | 104L/123L/114L/ | 85 + 116 + 117 | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 118L/105L | | | | | | | | |
| 22'344' - PeCB | 85 | 65510-45-4 | 104L/123L/114L/ 118L/105L | 85 + 116 + 117 | 34:12:00 | 123L | 37:12:00 | 0.919 | 12 | 0.917 | 0.922 |
| 233'4'6 - PeCB | 110 | 38380-03-9 | 104L/123L/114L/ 118L/105L | 110 + 115 | 34:27:00 | 123L | 37:12:00 | 0.926 | 10 | 0.924 | 0.928 |
| 2344'6 - PeCB | 115 | 74472-38-1 | 104L/123L/114L/ 118L/105L | 110 + 115 | | | | | | | |
| 22'33'4 - PeCB | 82 | 52663-62-4 | 104L/123L/114L/ 118L/105L | | 34:43:00 | 123L | 37:12:00 | 0.933 | 6 | 0.932 | 0.935 |
| 233'55' - PeCB | 111 | 39635-32-0 | 104L/123L/114L/ 118L/105L | | 35:10:00 | 123L | 37:12:00 | 0.945 | 6 | 0.944 | 0.947 |
| 23'455' - PeCB | 120 | 68194-12-7 | 104L/123L/114L/ 118L/105L | | 35:38:00 | 123L | 37:12:00 | 0.958 | 6 | 0.957 | 0.959 |
| 233'4'5 - PeCB | | | | | | | | | | | |
| 2'3455' - PeCB | See following tables for information specific to EPA 1668A or 1668C | | | | | | | | | | |
| 233'46 - PeCB | | | | | | | | | | | |
| 2'344'5 - PeCB | 123 | 65510-44-3 | 123L | | 37:13:00 | 123L | 37:12:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 233'45 - PeCB | 106 | 70424-69-0 | 104L/123L/114L/ 118L/105L | | 37:21:00 | 123L | 37:12:00 | 1.004 | 6 | 1.003 | 1.005 |
| 23'44'5 - PeCB | 118 | 31508-00-6 | 118L | | 37:34:00 | 118L | 37:32:00 | 1.001 | -1,3 | 1.000 | 1.002 |
| 2'33'45 - PeCB | 122 | 76842-07-4 | 104L/123L/114L/ 118L/105L | | 37:55:00 | 118L | 37:32:00 | 1.010 | 6 | 1.009 | 1.012 |
| 2344'5 - PeCB | 114 | 74472-37-0 | 114L | | 38:07:00 | 114L | 38:06:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 233'44' - PeCB | 105 | 32598-14-4 | 105L | | 38:48:00 | 105L | 38:46:00 | 1.001 | -1,3 | 0.999 | 1.001 |
| 33'455' - PeCB | 127 | 39635-33-1 | 104L/123L/114L/ 118L/105L | | 40:21:00 | 105L | 38:46:00 | 1.041 | 6 | 1.040 | 1.042 |
| 33'44'5 - PeCB | 126 | 57465-28-8 | 126L | | 42:02:00 | 126L | 42:01:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 22'44'66' - HxCB | 155 | 33979-03-2 | 155L | | 32:06:00 | 155L | 32:05:00 | 1.001 | -1,3 | 0.999 | 1.002 |
| 22'3566' - HxCB | 152 | 68194-09-2 | 155L/156L/157L/ 167L/169L | | 32:17:00 | 155L | 32:05:00 | 1.006 | 6 | 1.005 | 1.008 |
| 22'34'66' - HxCB | 150 | 68194-08-1 | 155L/156L/157L/ 167L/169L | | 32:28:00 | 155L | 32:05:00 | 1.012 | 6 | 1.010 | 1.014 |
| 22'33'66' - HxCB | 136 | 38411-22-2 | 155L/156L/157L/ 167L/169L | | 32:51:00 | 155L | 32:05:00 | 1.024 | 6 | 1.022 | 1.025 |
| 22'3466' - HxCB | 145 | 74472-40-5 | 155L/156L/157L/ 167L/169L | | 33:10:00 | 155L | 32:05:00 | 1.034 | 6 | 1.032 | 1.035 |
| 22'34'56' - HxCB | 148 | 74472-41-6 | 155L/156L/157L/ | | 34:45:00 | 155L | 32:05:00 | 1.083 | 6 | 1.082 | 1.085 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'355'6 - HxCB | 151 | 52663-63-5 | 167L/169L<br>155L/156L/157L/<br>167L/169L | 135 + 151 + 154 | | | | | | | |
| 22'33'56' - HxCB | 135 | 52744-13-5 | 155L/156L/157L/<br>167L/169L | 135 + 151 + 154 | 35:29:00 | 155L | 32:05:00 | 1.106 | 22 * | 1.103 | 1.109 |
| 22'44'5'6 - HxCB | 154 | 60145-22-4 | 155L/156L/157L/<br>167L/169L | 135 + 151 + 154 | | | | | | | |
| 22'345'6 - HxCB | 144 | 68194-14-9 | 155L/156L/157L/<br>167L/169L | | 35:57:00 | 155L | 32:05:00 | 1.121 | 6 | 1.119 | 1.122 |
| 22'34'56 - HxCB | 147 | 68194-13-8 | 155L/156L/157L/<br>167L/169L | 147 + 149 | 36:20:00 | 155L | 32:05:00 | 1.132 | 10 | 1.130 | 1.135 |
| 22'34'5'6 - HxCB | 149 | 38380-04-0 | 155L/156L/157L/<br>167L/169L | 147 + 149 | | | | | | | |
| 22'33'56 - HxCB | 134 | 52704-70-8 | 155L/156L/157L/<br>167L/169L | 134 + 143 | 36:36:00 | 155L | 32:05:00 | 1.141 | 10 | 1.138 | 1.143 |
| 22'3456' - HxCB | 143 | 68194-15-0 | 155L/156L/157L/<br>167L/169L | 134 + 143 | | | | | | | |
| 22'344'6 - HxCB | 139 | 56030-56-9 | 155L/156L/157L/<br>167L/169L | 139 + 140 | 36:58:00 | 155L | 32:05:00 | 1.152 | 10 | 1.150 | 1.155 |
| 22'344'6' - HxCB | 140 | 59291-64-4 | 155L/156L/157L/<br>167L/169L | 139 + 140 | | | | | | | |
| 22'33'46 - HxCB | 131 | 61798-70-7 | 155L/156L/157L/<br>167L/169L | | 37:11:00 | 155L | 32:05:00 | 1.159 | 6 | 1.157 | 1.161 |
| 22'3456 - HxCB | 142 | 41411-61-4 | 155L/156L/157L/<br>167L/169L | | 37:20:00 | 155L | 32:05:00 | 1.164 | 6 | 1.162 | 1.165 |
| 22'33'46' - HxCB | 132 | 38380-05-1 | 155L/156L/157L/<br>167L/169L | | 37:39:00 | 155L | 32:05:00 | 1.174 | 10 | 1.171 | 1.176 |
| 22'33'55' - HxCB | 133 | 35694-04-3 | 155L/156L/157L/<br>167L/169L | | 38:11:00 | 155L | 32:05:00 | 1.190 | 6 | 1.189 | 1.192 |
| 233'55'6 - HxCB | 165 | 74472-46-1 | 155L/156L/157L/<br>167L/169L | | 38:37:00 | 167L | 43:57:00 | 0.879 | 6 | 0.878 | 0.880 |
| 22'34'55' - HxCB | 146 | 51908-16-8 | 155L/156L/157L/<br>167L/169L | | 38:52:00 | 167L | 43:57:00 | 0.884 | 6 | 0.883 | 0.885 |
| 233'45'6 - HxCB | 161 | 74472-43-8 | 155L/156L/157L/<br>167L/169L | | 39:01:00 | 167L | 43:57:00 | 0.888 | 6 | 0.887 | 0.889 |
| 22'44'55' - HxCB | 153 | 35065-27-1 | 155L/156L/157L/<br>167L/169L | 153 + 168 | 39:32:00 | 167L | 43:57:00 | 0.900 | 10 | 0.898 | 0.901 |
| 23'44'5'6 - HxCB | 168 | 59291-65-5 | 155L/156L/157L/<br>167L/169L | 153 + 168 | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'3455' - HxCB | 141 | 52712-04-6 | 155L/156L/157L/ 167L/169L | | 39:43:00 | 167L | 43:57:00 | 0.904 | 6 | 0.903 | 0.905 |
| 22'33'45' - HxCB | 130 | 52663-66-8 | 155L/156L/157L/ 167L/169L | | 40:08:00 | 167L | 43:57:00 | 0.913 | 6 | 0.912 | 0.914 |
| 22'344'5 - HxCB | 137 | 35694-06-5 | 155L/156L/157L/ 167L/169L | | 40:22:00 | 167L | 43:57:00 | 0.918 | 6 | 0.917 | 0.920 |
| 233'4'5'6 - HxCB | 164 | 74472-45-0 | 155L/156L/157L/ 167L/169L | | 40:29:00 | 167L | 43:57:00 | 0.921 | 6 | 0.920 | 0.922 |
| 22'344'5' - HxCB | 138 | 35065-28-2 | 155L/156L/157L/ 167L/169L | 129 + 138 + 160 + 163 | | | | | | | |
| 233'4'56 - HxCB | 163 | 74472-44-9 | 155L/156L/157L/ 167L/169L | 129 + 138 + 160 + 163 | | | | | | | |
| 22'33'45 - HxCB | 129 | 55215-18-4 | 155L/156L/157L/ 167L/169L | 129 + 138 + 160 + 163 | 40:53:00 | 167L | 43:57:00 | 0.930 | 14 | 0.928 | 0.933 |
| 233'456 - HxCB | 160 | 41411-62-5 | 155L/156L/157L/ 167L/169L | 129 + 138 + 160 + 163 | | | | | | | |
| 233'44'6 - HxCB | 158 | 74472-42-7 | 155L/156L/157L/ 167L/169L | | 41:13:00 | 167L | 43:57:00 | 0.938 | 6 | 0.937 | 0.939 |
| 2344'56 - HxCB | 166 | 41411-63-6 | 155L/156L/157L/ 167L/169L | 128 + 166 | | | | | | | |
| 22'33'44' - HxCB | 128 | 38380-07-3 | 155L/156L/157L/ 167L/169L | 128 + 166 | 42:08:00 | 167L | 43:57:00 | 0.959 | 10 | 0.957 | 0.961 |
| 233'455' - HxCB | 159 | 39635-35-3 | 155L/156L/157L/ 167L/169L | | 43:10:00 | 167L | 43:57:00 | 0.982 | 6 | 0.981 | 0.983 |
| 233'4'55' - HxCB | 162 | 39635-34-2 | 155L/156L/157L/ 167L/169L | | 43:28:00 | 167L | 43:57:00 | 0.989 | 6 | 0.988 | 0.990 |
| 23'44'55' - HxCB | 167 | 52663-72-6 | 167L | | 43:59:00 | 167L | 43:57:00 | 1.001 | -1,3 | 1.000 | 1.001 |
| 233'44'5 - HxCB | 156 | 38380-08-4 | 156L/157L | | 45:11:00 | 156L/157L | 45:10:00 | 1.000 | 6 | 0.999 | 1.001 |
| 233'44'5' - HxCB | 157 | 69782-90-7 | 156L/157L | 156 + 157 | | | | | | | |
| 33'44'55' - HxCB | 169 | 32774-16-6 | 169L | | 48:36:00 | 169L | 48:34:00 | 1.001 | -1,3 | 1.000 | 1.001 |
| 22'34'566' - HpCB | 188 | 74487-85-7 | 188L | | 38:06:00 | 188L | 38:04:00 | 1.001 | -1,3 | 1.000 | 1.001 |
| 22'33'566' - HpCB | 179 | 52663-64-6 | 188L/189L | | 38:26:00 | 188L | 38:04:00 | 1.010 | 6 | 1.008 | 1.011 |
| 22'344'66' - HpCB | 184 | 74472-48-3 | 188L/189L | | 39:00:00 | 188L | 38:04:00 | 1.025 | 6 | 1.023 | 1.026 |
| 22'33'466' - HpCB | 176 | 52663-65-7 | 188L/189L | | 39:22:00 | 188L | 38:04:00 | 1.034 | 6 | 1.033 | 1.035 |
| 22'34566' - HpCB | 186 | 74472-49-4 | 188L/189L | | 39:50:00 | 188L | 38:04:00 | 1.046 | 6 | 1.045 | 1.048 |
| 22'33'55'6 - HpCB | 178 | 52663-67-9 | 188L/189L | | 41:17:00 | 188L | 38:04:00 | 1.085 | 6 | 1.083 | 1.086 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'33'45'6 - HpCB | 175 | 40186-70-7 | 188L/189L | | 41:57:00 | 188L | 38:04:00 | 1.102 | 6 | 1.101 | 1.103 |
| 22'34'55'6 - HpCB | 187 | 52663-68-0 | 188L/189L | | 42:15:00 | 188L | 38:04:00 | 1.110 | 6 | 1.109 | 1.111 |
| 22'344'56' - HpCB | 182 | 60145-23-5 | 188L/189L | | 42:27:00 | 188L | 38:04:00 | 1.115 | 6 | 1.114 | 1.116 |
| 22'344'5'6 - HpCB | 183 | 52663-69-1 | 188L/189L | 183 + 185 | 42:56:00 | 188L | 38:04:00 | 1.128 | 6 | 1.127 | 1.129 |
| 22'3455'6 - HpCB | 185 | 52712-05-7 | 188L/189L | 183 + 185 | | | | | | | |
| 22'33'456' - HpCB | 174 | 38411-25-5 | 188L/189L | | 43:07:00 | 188L | 38:04:00 | 1.133 | 6 | 1.131 | 1.134 |
| 22'33'4'56 - HpCB | 177 | 52663-70-4 | 188L/189L | | 43:35:00 | 188L | 38:04:00 | 1.145 | 6 | 1.144 | 1.146 |
| 22'344'56 - HpCB | 181 | 74472-47-2 | 188L/189L | | 44:00:00 | 188L | 38:04:00 | 1.156 | 6 | 1.155 | 1.157 |
| 22'33'44'6 - HpCB | 171 | 52663-71-5 | 188L/189L | 171 + 173 | 44:13:00 | 188L | 38:04:00 | 1.162 | 10 | 1.159 | 1.164 |
| 22'33'456 - HpCB | 173 | 68194-16-1 | 188L/189L | 171 + 173 | | | | | | | |
| 22'33'455' - HpCB | 172 | 52663-74-8 | 188L/189L | | 45:57:00 | 189L | 51:13:00 | 0.897 | 6 | 0.896 | 0.898 |
| 233'455'6 - HpCB | 192 | 74472-51-8 | 188L/189L | | 46:15:00 | 189L | 51:13:00 | 0.903 | 6 | 0.902 | 0.904 |
| 233'4'55'6 - HpCB | 193 | 69782-91-8 | 180L | 180 + 193 | | | | | | | |
| 22'344'55' - HpCB | 180 | 35065-29-3 | 180L | 180 + 193 | 46:36:00 | 180L | 46:35:00 | 1.000 | 6 | 0.999 | 1.001 |
| 233'44'5'6 - HpCB | 191 | 74472-50-7 | 188L/189L | | 47:00:00 | 189L | 51:13:00 | 0.918 | 6 | 0.917 | 0.919 |
| 22'33'44'5 - HpCB | 170 | 35065-30-6 | 170L | | 47:57:00 | 170L | 47:56:00 | 1.000 | 6 | 0.999 | 1.001 |
| 233'44'56 - HpCB | 190 | 41411-64-7 | 188L/189L | | 48:31:00 | 189L | 51:13:00 | 0.947 | 6 | 0.946 | 0.948 |
| 233'44'55' - HpCB | 189 | 39635-31-9 | 189L | | 51:14:00 | 189L | 51:13:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 22'33'55'66' - OcCB | 202 | 2136-99-4 | 202L | | 43:43:00 | 202L | 43:41:00 | 1.001 | -1,3 | 1.000 | 1.001 |
| 22'33'45'66' - OcCB | 201 | 40186-71-8 | 202L/205L | | 44:41:00 | 202L | 43:41:00 | 1.023 | 10 | 1.021 | 1.025 |
| 22'344'566' - OcCB | 204 | 74472-52-9 | 202L/205L | | 45:23:00 | 202L | 43:41:00 | 1.039 | 6 | 1.038 | 1.040 |
| 22'33'44'66' - OcCB | 197 | 33091-17-7 | 202L/205L | 197 + 200 | 45:41:00 | 202L | 43:41:00 | 1.046 | 14 * | 1.045 | 1.047 |
| 22'33'4566' - OcCB | 200 | 52663-73-7 | 202L/205L | 197 + 200 | | | | | | | |
| 22'33'455'6 - OcCB | 198 | 68194-17-2 | 202L/205L | 198 + 199 | 48:40:00 | 202L | 43:41:00 | 1.114 | 10 | 1.112 | 1.116 |
| 22'33'455'6' - OcCB | 199 | 52663-75-9 | 202L/205L | 198 + 199 | | | | | | | |
| 22'33'44'56' - OcCB | 196 | 42740-50-1 | 202L/205L | | 49:23:00 | 205L | 53:54:00 | 0.916 | 6 | 0.915 | 0.917 |
| 22'344'55'6 - OcCB | 203 | 52663-76-0 | 202L/205L | | 49:35:00 | 205L | 53:54:00 | 0.920 | 6 | 0.919 | 0.921 |
| 22'33'44'56 - OcCB | 195 | 52663-78-2 | 202L/205L | | 50:59:00 | 205L | 53:54:00 | 0.946 | 6 | 0.945 | 0.947 |
| 22'33'44'55' - OcCB | 194 | 35694-08-7 | 202L/205L | | 53:26:00 | 205L | 53:54:00 | 0.991 | 6 | 0.990 | 0.992 |
| 233'44'55'6 - OcCB | 205 | 74472-53-0 | 205L | | 53:56:00 | 205L | 53:54:00 | 1.001 | -1,3 | 1.000 | 1.001 |

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## AXYS Analytical Services Ltd.

| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22'33'455'66' - NoCB | 208 | 52663-77-1 | 208L | | 50:43:00 | 208L | 50:42:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 22'33'44'566' - NoCB | 207 | 52663-79-3 | 208L/206L | | 51:42:00 | 208L | 50:42:00 | 1.020 | 6 | 1.019 | 1.021 |
| 22'33'44'55'6 - NoCB | 206 | 40186-72-9 | 206L | | 55:45:00 | 206L | 55:44:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| 22'33'44'55'66' - DeCB | 209 | 2051-24-3 | 209L | | 57:26:00 | 209L | 57:25:00 | 1.000 | -1,3 | 1.000 | 1.001 |
| LABELLED COMPOUND | | | | | | | | | | | |
| 13C12-2 - MoCB | 1L | | 9L | | 11:34:00 | 9L | 16:05:00 | 0.719 | 30 | 0.704 | 0.735 |
| 13C12-4 - MoCB | 3L | | 9L | | 13:48:00 | 9L | 16:05:00 | 0.858 | 30 | 0.842 | 0.874 |
| 13C12-22' - DiCB | 4L | | 9L | | 14:03:00 | 9L | 16:05:00 | 0.874 | 30 | 0.858 | 0.889 |
| 13C12-44' - DiCB | 15L | | 9L | | 20:08:00 | 9L | 16:05:00 | 1.252 | 30 | 1.236 | 1.267 |
| 13C12-22'6 - TriCB | 19L | | 9L | | 17:13:00 | 9L | 16:05:00 | 1.070 | 30 | 1.055 | 1.086 |
| 13C12-344' - TriCB | 37L | | 52L | | 27:27:00 | 52L | 25:09:00 | 1.091 | 30 | 1.082 | 1.101 |
| 13C12-22'66' - TeCB | 54L | | 52L | | 20:25:00 | 52L | 25:09:00 | 0.812 | 20 | 0.805 | 0.818 |
| 13C12-33'44' - TeCB | 77L | | 52L | | 35:07:00 | 52L | 25:09:00 | 1.396 | 20 | 1.390 | 1.403 |
| 13C12-344'5 - TeCB | 81L | | 52L | | 34:31:00 | 52L | 25:09:00 | 1.372 | 20 | 1.366 | 1.379 |
| 13C12-22'466' - PeCB | 104L | | 101L | | 26:08:00 | 101L | 32:19:00 | 0.809 | 20 | 0.804 | 0.814 |
| 13C12-233'44' - PeCB | 105L | | 101L | | 38:46:00 | 101L | 32:19:00 | 1.200 | 20 | 1.194 | 1.205 |
| 13C12-2344'5 - PeCB | 114L | | 101L | | 38:06:00 | 101L | 32:19:00 | 1.179 | 20 | 1.174 | 1.184 |
| 13C12-23'44'5 - PeCB | 118L | | 101L | | 37:32:00 | 101L | 32:19:00 | 1.161 | 20 | 1.156 | 1.167 |
| 13C12-2'344'5 - PeCB | 123L | | 101L | | 37:12:00 | 101L | 32:19:00 | 1.151 | 20 | 1.146 | 1.156 |
| 13C12-33'44'5 - PeCB | 126L | | 101L | | 42:01:00 | 101L | 32:19:00 | 1.300 | 20 | 1.295 | 1.305 |
| 13C12-22'44'66' - HxCB | 155L | | 138L | | 32:05:00 | 138L | 40:48:00 | 0.786 | 20 | 0.782 | 0.790 |
| 13C12-233'44'5 - HxCB and | 156L | | 138L | | 45:10:00 | 138L | 40:48:00 | 1.107 | 20 | 1.103 | 1.111 |
| 13C12-233'44'5' - HxCB | 157L | | 138L | | | | | | | | |
| 13C12-23'44'55' - HxCB | 167L | | 138L | | 43:57:00 | 138L | 40:48:00 | 1.077 | 20 | 1.073 | 1.081 |
| 13C12-33'44'55' - HxCB | 169L | | 138L | | 48:34:00 | 138L | 40:48:00 | 1.190 | 20 | 1.186 | 1.194 |
| 13C12-22'33'44'5 - HpCB | 170L | | 194L | | 47:57:00 | 194L | 53:25:00 | 0.898 | 20 | 0.891 | 0.904 |
| 13C12-22'344'55' - HpCB | 180L | | 194L | | 46:36:00 | 194L | 53:25:00 | 0.872 | 20 | 0.866 | 0.879 |
| 13C12-22'34'566' - HpCB | 188L | | 194L | | 38:04:00 | 194L | 53:25:00 | 0.713 | 20 | 0.710 | 0.716 |
| 13C12-233'44'55' - HpCB | 189L | | 194L | | 51:13:00 | 194L | 53:25:00 | 0.959 | 20 | 0.956 | 0.962 |
| 13C12-22'33'55'66' - OcCB | 202L | | 194L | | 43:41:00 | 194L | 53:25:00 | 0.818 | 20 | 0.815 | 0.821 |
| 13C12-233'44'55'6 - OcCB | 205L | | 194L | | 53:54:00 | 194L | 53:25:00 | 1.009 | 30 | 1.004 | 1.014 |
| 13C12-22'33'44'55'6 - NoCB | 206L | | 194L | | 55:44:00 | 194L | 53:25:00 | 1.043 | 30 | 1.039 | 1.048 |
| 13C12-22'33'455'66' - NoCB | 208L | | 194L | | 50:42:00 | 194L | 53:25:00 | 0.949 | 20 | 0.946 | 0.952 |

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## AXYS Analytical Services Ltd.

| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13C12-22'33'44'55'66' - DeCB | 209L | | 194L | | 57:26:00 | 194L | 53:25:00 | 1.075 | 30 | 1.071 | 1.080 |
| LABELLED CLEAN-UP STANDARD | | | | | | | | | | | |
| 13C12-244' - TriCB | 28L | | 52L | | 23:16:00 | 52L | 25:09:00 | 0.925 | 20 | 0.918 | 0.932 |
| 13C12-233'55' - PeCB | 111L | | 101L | | 35:09:00 | 101L | 32:19:00 | 1.088 | 20 | 1.083 | 1.093 |
| 13C12-22'33'55'6 - HpCB | 178L | | 138L | | 41:16:00 | 138L | 40:48:00 | 1.011 | 20 | 1.007 | 1.016 |
| | | | | | | | | | | | |
| LABELLED INJECTION INTERNAL STANDARD | | | | | | | | | | | |
| 13C12-25 - DiCB | 9L | | 138L | | 16:05:00 | 138L | 40:48:00 | 0.394 | 25 | 0.389 | 0.399 |
| 13C12-22'55' - TeCB | 52L | | 138L | | 25:09:00 | 138L | 40:48:00 | 0.616 | 25 | 0.611 | 0.622 |
| 13C12-22'455' - PeCB | 101L | | 138L | | 32:19:00 | 138L | 40:48:00 | 0.792 | 25 | 0.787 | 0.797 |
| 13C12-22'344'5' - HxCB | 138L | | 138L | | 40:48:00 | 138L | 40:48:00 | 1.000 | 100 | 0.980 | 1.020 |
| 13C12-22'33'44'55' - OcCB | 194L | | 138L | | 53:25:00 | 138L | 40:48:00 | 1.309 | 25 | 1.304 | 1.314 |

* RT window wider than prescribed by 1668A/C to accommodate for skewed peaks of coeluting compounds (PCB-95/100/93/102/98, PCB-151/135/154 and PCB-197/200)

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## AXYS Analytical Services Ltd.

### Theoretical Ion Abundance Ratios and QC Limits

| Chlorine Atoms | m/z's Forming Ratio | Theoretical Ratio | Lower QC Limit | Upper QC Limit |
|---|---|---|---|---|
| 1 | M/(M+2) | 3.13 | 2.66 | 3.60 |
| 2 | M/(M+2) | 1.56 | 1.33 | 1.79 |
| 3 | M/(M+2) | 1.04 | 0.88 | 1.20 |
| 4 | M/(M+2) | 0.77 | 0.65 | 0.89 |
| 5 | (M+2)/(M+4) | 1.55 | 1.32 | 1.78 |
| 6 | (M+2)/(M+4) | 1.24 | 1.05 | 1.43 |
| 7 | (M+2)/(M+4) | 1.05 | 0.89 | 1.21 |
| 8 | (M+2)/(M+4) | 0.89 | 0.76 | 1.02 |
| 9 | (M+2)/(M+4) | 0.77 | 0.65 | 0.89 |
| 10 | (M+4)/(M+6) | 1.16 | 0.99 | 1.33 |

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The peak assignment of PCB Congener numbers 107, 108, 109 differs between EPA Method 1668A and EPA 1668C/CBC01.2. Congeners named PCB 108, 107 and 109 in Method 1668A are named PCB 109, 108 and 107, respectively, for EPA 1668C and EPA CBC01.2 applications.

### Analyte Retention Times, Surrogates Used and RRT Windows for Congener Numbers 107, 108 and 109 in accordance with 1668A Specification

| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23'44'6 - PeCB | 119 | 56558-17-9 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | | | | | | | |
| 233'45' - PeCB | 108 | 70362-41-3 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | | | | | | | |
| 22'345 - PeCB | 86 | 55312-69-1 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | 33:29:00 | 123L | 37:12:00 | 0.900 | 16 | 0.897 | 0.904 |
| 22'3'45 - PeCB | 97 | 41464-51-1 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | | | | | | | |
| 2'3456' - PeCB | 125 | 74472-39-2 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | | | | | | | |
| 22'345' - PeCB | 87 | 38380-02-8 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 108 + 119 + 125 | | | | | | | |
| 233'4'5 - PeCB | 107 | 70424-68-9 | 104L/123L/114L/ 118L/105L | 107 + 124 | 36:50:00 | 123L | 37:12:00 | 0.990 | 10 | 0.988 | 0.992 |
| 2'3455' - PeCB | 124 | 70424-70-3 | 104L/123L/114L/ 118L/105L | 107 + 124 | | | | | | | |
| 233'46 - PeCB | 109 | 74472-35-8 | 104L/123L/114L/ 118L/105L | | 37:05:00 | 123L | 37:12:00 | 0.997 | 6 | 0.996 | 0.998 |

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### Analyte Retention Times, Surrogates Used and RRT Windows for Optional Reporting of Congener Numbers 107, 108 and 109 in accordance with 1668C Specification

| COMPOUND | Congener Number | CAS NO. | QUANTIFICATION REFERENCE | CO-ELUTIONS | COMPOUND RT | RT Reference | Labelled RT | RRT | RT Window (sec) | RRT Lower Limit | RRT Upper Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23'44'6 - PeCB | 119 | 56558-17-9 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | | | | | | | |
| 2,3,3',4,6 - PeCB | 109 | 74472-35-8 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | | | | | | | |
| 2,2',3,4,5 - PeCB | 86 | 55312-69-1 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | 33:29:00 | 123L | 37:12:00 | 0.900 | 16 | 0.897 | 0.904 |
| 2,2',3',4,5 - PeCB | 97 | 41464-51-1 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | | | | | | | |
| 2',3,4,5,6' - PeCB | 125 | 74472-39-2 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | | | | | | | |
| 2,2',3,4,5' - PeCB | 87 | 38380-02-8 | 104L/123L/114L/ 118L/105L | 86 + 87 + 97 + 109 + 119 + 125 | | | | | | | |
| 2,3,3',4,5' - PeCB | 108 | 70362-41-3 | 104L/123L/114L/ 118L/105L | 108 + 124 | 36:50:00 | 123L | 37:12:00 | 0.990 | 10 | 0.988 | 0.992 |
| 2',3,4,5,5' - PeCB | 124 | 70424-70-3 | 104L/123L/114L/ 118L/105L | 108 + 124 | | | | | | | |
| 2,3,3',4',5 - PeCB | 107 | 70424-68-9 | 104L/123L/114L/ 118L/105L | | 37:05:00 | 123L | 37:12:00 | 0.997 | 6 | 0.996 | 0.998 |

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## 4.1 Reporting Limits

Concentrations and detection limits for target compounds are reported. The isotope dilution/internal standard method of quantification, used to determine concentrations of target analytes, corrects the concentrations based on the percent recovery of the surrogate. Typical reporting units are pg/g, pg/L, or pg/sample. Concentrations for solids are reported on a dry weight basis. Concentrations in tissues (including blood/serum/plasma and milk) are reported on a wet weight basis and/or on a lipid weight basis when requested. Concentrations in aqueous samples are reported on a volume basis. Concentrations in XAD-2 resin, filters and stack gas samples are reported on a per sample basis or a per volume basis. Concentrations in particulate filters are reported on a per sample basis. Results may be expressed in other units if specified by contract. Unless otherwise specified, concentrations are reported to three significant figures.

Percent moisture is reported for all sediments, soils, and ash samples and for tissues when percent moisture is requested. Percent moisture is not reported for pulps and sludge, although it is determined for the calculation of a dry weight.

Percent lipid is reported if determined on a sample.

Various reporting limit options are offered to meet particular client and data quality objectives and should be defined specific to contract by the client and agreed to by AXYS in advance of instrumental analysis:

### Sample Specific Detection Limit (SDL) Reporting Limit

SDLs are determined from the analysis data by converting the minimum detectable area to a concentration following the same quantification procedures used to convert target peak responses to concentrations. The estimated minimum detectable area is determined as 2.5 times the height of the noise in the m/z channel of interest, converted to an area using the area:height ratio of the corresponding labelled surrogate peak. The SDL accounts for any effect of matrix on the detection system, for recovery achieved through the analytical work-up and for the exact sample size used.

SDLs do not account for background contribution, and sample results must be compared to the associated QC blank results for significance of detection.

The lower reporting limit for blood/serum/plasma samples is the SDL, for other matrices the lower reporting limit is the greater of SDL or 0.5 pg/sample.

### EPA1668A and EPA1668C Specified Reporting Limit

An alternate reporting limit approach may be applied on written request of the customer: sample results are reported to minimum levels ("MLs") according to section 17.6.1.4 of EPA methods 1668A/C. Depending on client request, the MLs used may be the MLs listed in 1688A/C or laboratory MLs. Laboratory MLs are determined as the greater of the low calibration equivalent or of the (mean + 2 standard deviations) values of laboratory blank concentrations. Values for laboratory blanks are updated annually for aqueous, solid and tissue sample matrices, using a minimum of 10 consecutively processed blanks representative of typical lab performance.

MLs do not account for sample specific matrix effect or sample specific recovery achieved through the analytical work-up. ML reporting limits do account for background detectable in laboratory

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blanks. ML reporting limit is a recognized convention for compliance monitoring based on Total PCB values determined from summation of detected congeners.

The blank statistics are retained on file. QC blank results are reported to the SDL.

### Laboratory Method detection limit (MDL) Reporting Limit

Laboratory MDLs are determined as specified by EPA Fed. Reg. 40 CFR Part 136 Appendix B (no iteration option). The 99% confidence level MDL is statistically determined based on analysis of a minimum of 7 replicate matrix spikes fortified at 1-5 times the estimated detection limit. MDLs are an estimate of detection limit determined at a point in time and do not compensate for sample specific matrix effect, sample specific recovery achieved through the analytical work-up; an implicit assumption of the MDL procedure followed is that blank results are centered around zero, and consequently, MDLs may not adequately account for background contribution as evidenced in QC blanks.

## 5.0 QUALITY ACCEPTANCE CRITERIA

Samples are analyzed in batches consisting of a maximum of twenty samples, one procedural blank and one spiked matrix (OPR) sample. A duplicate is analyzed, provided there is sufficient sample, with batches containing 7-20 samples. Matrix spike/matrix spike duplicate (MS/MSD) pairs may be analyzed on an individual contract basis. The batch is carried through the complete analytical process as a unit. For sample data to be reportable, the batch QC data must meet the established acceptance criteria presented on the analysis reports.

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## QC Acceptance Criteria according to EPA method 1668A for Chlorinated Biphenyls in CAL/VER, IPR, OPR, and Samples

| Congener | Cong. No. [2] | Test conc. ng/mL | CAL/VER (%) | | IPR [1] (%) | | OPR [1] (%) | | Labelled compound [1] % recovery in samples | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Warning limits | Acceptance limits | RSD | $\bar{X}$ | Warning limits | Acceptance limits | Warning limits | Acceptance limits |
| 2-MoCB | 1 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 4-MoCB | 3 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2'-DiCB | 4 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 4,4'-DiCB | 15 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2'6-TrCB | 19 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 3,4,4'-TrCB | 37 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2'6,6'TeCB | 54 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 3,3',4,4'-TeCB | 77 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 3,4,4',5-TeCB | 81 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',4,6,6'-PeCB | 104 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,3',4,4'-PeCB | 105 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,4,4',5-PeCB | 114 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3',4,4',5-PeCB | 118 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2',3,4,4',5-PeCB | 123 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 3,3',4,4',5-PeCB | 126 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',4,4',6,6'-HxCB | 155 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,3',4,4',5-HxCB [3] | 156 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,3',4,4',5'-HxCB [3] | 157 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3',4,4',5,5'-HxCB | 167 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 3,3',4,4',5,5'-HxCB | 169 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',3,4',5,6,6'-HpCB | 188 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,3',4,4',5,5'-HpCB | 189 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',3,3',5,5',6,6'-OcCB | 202 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,3,3',4,4',5,5',6-OcCB | 205 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',3,3',4,4',5,5',6-NoCB | 206 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| 2,2',3,3,'4,5,5',6,6'-NoCB | 208 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| DeCB | 209 | 50 | 75-125 | 70-130 | 40 | 60-140 | 70-130 | 50-150 | - | - |
| **Labeled Compounds** | | | | | | | | | | |
| $^{13}C_{12}$-2-MoCB | 1L | 100 | 65-135 | 50-150 | 50 | 20-135 | 15-140 | 15-140 | 15-130 | 15-150 |
| $^{13}C_{12}$-4-MoCB | 3L | 100 | 65-135 | 50-150 | 50 | 20-135 | 15-140 | 15-140 | 15-130 | 15-150 |
| $^{13}C_{12}$-2,2'-DiCB | 4L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 25-130 | 25-150 |
| $^{13}C_{12}$-4,4'-DiCB | 15L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 25-130 | 25-150 |
| $^{13}C_{12}$-2,2',6-TrCB | 19L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 30-130 | 25-150 |
| $^{13}C_{12}$-3,4,4'-TrCB | 37L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 30-130 | 25-150 |
| $^{13}C_{12}$-2,2',6,6'-TeCB | 54L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 30-130 | 25-150 |

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## AXYS Analytical Services Ltd.

| Congener | Cong. No. [2] | Test conc. ng/mL | CAL/VER (%) | | IPR [1] (%) | | OPR [1] (%) | | Labelled compound [1] % recovery in samples | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Warning limits | Acceptance limits | RSD | $\bar{X}$ | Warning limits | Acceptance limits | Warning limits | Acceptance limits |
| $^{13}C_{12}$-3,3',4,4'-TCB | 77L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 30-130 | 25-150 |
| $^{13}C_{12}$-3,4,4',5-TeCB | 81L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 30-130 | 25-150 |
| $^{13}C_{12}$-2,2',4,6,6'-PeCB | 104L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3,3',4,4'-PeCB | 105L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3,4,4',5-PeCB | 114L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3',4,4',5-PeCB | 118L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2',3,4,4',5-PeCB | 123L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-3,3',4,4',5-PeCB | 126L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',4,4',6,6'-HxCB | 155L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3,3',4,4',5-HxCB [3] | 156L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3,3',4,4',5'-HxCB [3] | 157L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3',4,4',5,5'-HxCB | 167L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-3,3',4,4',5,5'-HxCB | 169L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,3',4,4',5-HpCB | 170L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,4,4',5,5'-HpCB | 180L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB | 188L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2',3,3',4,4',5,5'-HpCB | 189L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB | 202L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB | 205L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB | 206L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 100 | 65-135 | 50-150 | 50 | 35-135 | 30-140 | 30-140 | 40-130 | 25-150 |
| **Cleanup Standards** | | | | | | | | | | |
| $^{13}C_{12}$-2,4,4'-TriCB | 28L | 100 | | 60-130 | 45 | 45-120 | 40-125 | 40-125 | 40-130 | 30-135 |
| $^{13}C_{12}$-2,3,3',5,5'-PeCB | 111L | 100 | | 60-130 | 45 | 45-120 | 40-125 | 40-125 | 40-130 | 30-135 |
| $^{13}C_{12}$-2,2',3,3',5,5',6-HpCB | 178L | 100 | | 60-130 | 45 | 45-120 | 40-125 | 40-125 | 40-130 | 30-135 |

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## AXYS Analytical Services Ltd.

## QC Acceptance Criteria according to EPA method 1668C for Chlorinated Biphenyls in CAL/VER, IPR, OPR, and Samples

| Congener | Cong. No.[2] | Test conc. ng/mL | CAL/VER (%) | | IPR[1] (%) | | OPR[1] (%) | | Labelled compound[1] % recovery in samples | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Warning limits | Acceptance limits | RSD | $\bar{X}$ | Warning limits | Acceptance limits | Warning limits | Acceptance limits |
| 2-MoCB | 1 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 4-MoCB | 3 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2'-DiCB | 4 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 4,4'-DiCB | 15 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2'6-TrCB | 19 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 3,4,4'-TrCB | 37 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2'6,6'TeCB | 54 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 3,3',4,4'-TeCB | 77 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 3,4,4',5-TeCB | 81 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',4,6,6'-PeCB | 104 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,3',4,4'-PeCB | 105 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,4,4',5-PeCB | 114 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3',4,4',5-PeCB | 118 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2',3,4,4',5-PeCB | 123 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 3,3',4,4',5-PeCB | 126 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',4,4',6,6'-HxCB | 155 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,3',4,4',5-HxCB[3] | 156 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,3',4,4',5'-HxCB[3] | 157 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3',4,4',5,5'-HxCB | 167 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 3,3',4,4',5,5'-HxCB | 169 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',3,4',5,6,6'-HpCB | 188 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,3',4,4',5,5'-HpCB | 189 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',3,3',5,5',6,6'-OcCB | 202 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,3,3',4,4',5,5',6-OcCB | 205 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',3,3',4,4',5,5',6-NoCB | 206 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| 2,2',3,3,'4,5,5',6,6'-NoCB | 208 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| DeCB | 209 | 50 | 75-125 | 75-125 | 25 | 70-130 | 70-130 | 60-135 | - | - |
| **Labeled Compounds** | | | | | | | | | | |
| $^{13}C_{12}$-2-MoCB | 1L | 100 | 65-135 | 50-145 | 70 | 20-135 | 15-140 | 15-145 | 15-130 | 5-145 |
| $^{13}C_{12}$-4-MoCB | 3L | 100 | 65-135 | 50-145 | 70 | 20-135 | 15-140 | 15-145 | 15-130 | 5-145 |
| $^{13}C_{12}$-2,2'-DiCB | 4L | 100 | 65-135 | 50-145 | 70 | 20-135 | 30-140 | 15-145 | 25-130 | 5-145 |
| $^{13}C_{12}$-4,4'-DiCB | 15L | 100 | 65-135 | 50-145 | 70 | 20-135 | 30-140 | 15-145 | 25-130 | 5-145 |
| $^{13}C_{12}$-2,2',6-TrCB | 19L | 100 | 65-135 | 50-145 | 70 | 20-135 | 30-140 | 15-145 | 30-130 | 5-145 |
| $^{13}C_{12}$-3,4,4'-TrCB | 37L | 100 | 65-135 | 50-145 | 70 | 20-135 | 30-140 | 15-145 | 30-130 | 5-145 |
| $^{13}C_{12}$-2,2',6,6'-TeCB | 54L | 100 | 65-135 | 50-145 | 70 | 20-135 | 30-140 | 15-145 | 30-130 | 5-145 |

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## AXYS Analytical Services Ltd.

| Congener | Cong. No.[2] | Test conc. ng/mL | CAL/VER (%) | | IPR[1] (%) | | OPR[1] (%) | | Labelled compound[1] % recovery in samples | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Warning limits | Acceptance limits | RSD | $\bar{X}$ | Warning limits | Acceptance limits | Warning limits | Acceptance limits |
| $^{13}C_{12}$-3,3',4,4'-TCB | 77L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 30-130 | 10-145 |
| $^{13}C_{12}$-3,4,4',5-TeCB | 81L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 30-130 | 10-145 |
| $^{13}C_{12}$-2,2',4,6,6'-PeCB | 104L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3,3',4,4'-PeCB | 105L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3,4,4',5-PeCB | 114L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3',4,4',5-PeCB | 118L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2',3,4,4',5-PeCB | 123L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-3,3',4,4',5-PeCB | 126L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',4,4',6,6'-HxCB | 155L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3,3',4,4',5-HxCB[3] | 156L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3,3',4,4',5'-HxCB[3] | 157L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3',4,4',5,5'-HxCB | 167L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-3,3',4,4',5,5'-HxCB | 169L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',4,4',5-HpCB | 170L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,4,4',5,5'-HpCB | 180L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB | 188L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2',3,3',4,4',5,5'-HpCB | 189L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB | 202L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB | 205L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB | 206L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 100 | 65-135 | 50-145 | 50 | 45-135 | 30-140 | 40-145 | 40-130 | 10-145 |
| **Cleanup Standards** | | | | | | | | | | |
| $^{13}C_{12}$-2,4,4'-TriCB | 28L | 100 | | 65-135 | 70 | 20-135 | 40-125 | 15-145 | 40-130 | 5-145 |
| $^{13}C_{12}$-2,3,3',5,5'-PeCB | 111L | 100 | | 75-125 | 50 | 45-135 | 40-125 | 40-145 | 40-130 | 10-145 |
| $^{13}C_{12}$-2,2',3,3',5,5',6-HpCB | 178L | 100 | | 75-125 | 50 | 45-135 | 40-125 | 40-145 | 40-130 | 10-145 |

Footnotes to the tables above:

1. QC acceptance criteria for IPR, OPR, and samples based on a 20 µL extract final volume
2. Suffix "L" indicates labelled compound.
3. PCBs 156 and 157 are tested as the sum of two concentrations

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## AXYS Analytical Services Ltd.

### QC Specification Table: QC Samples, Instrumental Analysis, and Analyte Quantification

| QC Parameter | Specification |
|---|---|
| **Analysis Duplicate** | Must agree to within ±20% of the mean (applicable to concentrations >10 times the DL)[1] |
| **Procedural Blank** | Analyte concentrations in blank samples for PCB congeners 77, 81, 114, 123, 126 and 169 must be less than 2 pg/congener/sample, and concentrations of PCB congeners 156, 157, 167 and 189 must be less than 10 pg/congener/sample. Concentrations of all other individual PCB congeners or coelutions must be less than 50 pg/congener/sample in blank samples. The sum of all 209 congeners should be less than 300 pg/sample. Higher levels are acceptable where sample concentrations exceed 10 times the blank levels. |
| **Sample Specific Detection Limit** | Typical sample specific detection limits, determined from chromatographic noise, are in the range of 0.5 to 2.0 pg. |
| **Initial Calibration** | For 6- or 7-point calibration, a relative standard deviation of the RRF's ≤20% for all compounds.<br>Ion ratios for all congeners must be within ±15% of theoretical for CS 0.2.<br>Minimum S:N ratio 10:1 for all calibration standards. For CS0.2, S:N ratio may be as low as 3:1 for di-PCBs and nona-PCBs.<br>If the optional CS-6 calibration point fails, calibration may still be performed using the default CS-0.2 through CS-5 calibration range. |
| **Continuing CAL VER** | Refer to the tables above. |
| **Analyte/Surrogate Ratios** | Response must be within the calibrated range of the instrument. Coders may use data from more than one chromatogram to get the responses in the calibrated range. |
| **Ion Ratios** | Ion ratios must fall within ±15% of the theoretical values for positive identification of all targets in the calibration standards and samples. |
| **Sensitivity** | Minimum S:N ratio 10:1 for all calibration standards. For CS0.2, S:N ratio may be as low as 3:1. for di-PCBs and nona-PCBs. |

[1] Duplicate criterion is a guideline; final assessment depends upon sample characteristics, overall batch QC and on-going lab performance.

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## AXYS Analytical Services Ltd.

### Summary of Modifications to EPA Mehods 1668A and 1668C

The following sections of EPA Methods 1668A and 1668C have been modified as described below.

*Section 4.2.1, 4.2.2:* The protocol for washing reusable glassware includes a detergent wash, water rinse and baking at a minimum of 300°C for 8 hours. Immediately prior to use, glassware is solvent rinsed with toluene and hexane.

*Section 4.7: The* first cleanup column for tissue extracts is a gravity gel permeation column (SX-3 Biobeads). An anthropogenic isolation column 7.5.3 is not used.

*Section 6.5.1:* Glass wool is cleaned by rinsing twice with toluene and twice with hexane.

*Section 7.12, 7.13, 9.0, 11.0:* The concentration of the labelled toxics/LOC and the cleanup standard spiking solutions is 100 ng/mL and the sample spiking volume is 20 µL. The resulting final concentrations in the extracts are as specified in the method.

*Section 7.14:* Concentration of the labelled injection internal standard spiking solution (recovery standard) is modified so that a volume of 5 µL is added. The resulting amount of standard added to the final extract is the same as specified in the method. The solution is spiked into a 15 µL extract volume for a final extract volume of 20 µL.

*Section 7.2.1:* Sodium sulphate is baked at a minimum of 300°C for 8 hrs.

*Section 7.5.1:* Silica is activated by baking at 450°C in a muffle oven for at least 8 hrs.

*Section 7.5.4.1.1:* Florisil is baked at 450°C in a muffle over for at least 8 hrs, then deactivated with water to 2.0 % deactivation.

*Section 10.3.3, 15.3.3:* A S:N ratio of 3:1 for di-PCBs and nona-PCBs in CS0.2 calibration solution is acceptable.

*Section 11.5.6:* Unless requested by the client, the aqueous portion after filtration of aqueous samples with >1% solids is not discarded but is extracted.

*Section 11.5, 11.5.2, 11.5.5, 12.3* Solid samples are dried by mixing with anhydrous sodium sulphate. The dried solid is extracted using a Soxhlet extraction apparatus. The surrogate spike is incorporated after the drying step. Equilibration time for the surrogate is 30 minutes. The extracting solvent for solids is dichloromethane.

*Section 12.4, 11.8:* The surrogate spike is incorporated into the sample after the drying step to eliminate the possibility of disproportional loss of volatile labelled and target compounds.

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*Section 12.4.2:* The precleaning of the Soxhlet apparatus is carried out using toluene instead of dichloromethane, for 2 hours.

*Section 12.4.9:* Lipid analysis is carried out by sub-sampling two 2 g portions of the extract from a total 30 g extract weight. The cleanup standard is spiked into the extract after Soxhlet extraction and before any lipid analysis or rotary evaporation is done. The percent surrogate recoveries are corrected for the amount of extract used for lipid analysis.

*Section 12.6.1.1:* Rotary evaporation is done at 30°C. Daily cleaning of the rotary evaporators include dismantling and rinsing/soaking with solvent. Proofs are run periodically but are not archived daily.

*Section 12.7.4:* Before Florisil or alumina cleanup procedures, a solvent exchange is done by reducing under nitrogen to 300 uL and bulking up to 1mL in hexane. If toluene is present the extract is reduced to 50 uL under nitrogen and bulked up to 1 mL.

*Section 12.7.7:* Toluene (1 mL) is added to the eluate from the final column prior to rotary evaporation and nitrogen blow down concentration steps.

*Section 13.1.1:* GPC chromatography, by a gravity column, is routinely used only for tissue extracts. The GPC cleanup is optional for all other matrices.

*Section 13.3.1:* Routine layered silica column is as follows: 0.5 g neutral silica, 2 g 28% basic silica, 0.5 g neutral silica, 4 g 44% acidic silica, 4 g 22% acidic silica, 1 g neutral silica.

*Section 13.3.4:* The sample is loaded onto the column followed by 2-3 rinses of a least 1 mL, and eluted with 100mL of hexane.

*Section 14.2:* The volume of labelled injection internal standard (recovery standard) added to the extract is 5 µL, for a final extract volume of 20 µL. Hexane rather than nonane is used as the solvent to bring extract back to volume for re-analysis or to dilute extracts.

*Section 15.3:* The calibration solution containing all 209 PCB congeners is used as the CAL/VER solution.

*Section 17.5*: Extracts are diluted with hexane. The concentration of the labelled injection internal (recovery) standard is not re-adjusted to 100 pg/µL when dilutions are performed.

*Section 17.0*

$Conc_i$ - the concentrations of target analytes, and the labelled compound concentrations and recoveries, are calculated using the equations below. These procedures are equivalent to those described in the method but are more direct.

$$Conc_i = \frac{A_i}{A_{si}} \times \frac{M_{si}}{RRF_{i,si}} \times \frac{1}{M_x}$$

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AXYS Analytical Services Ltd, 2045 Mills Road W., Sidney, BC, Canada, V8L 5X2. Tel. (250) 655-5800, fax (250) 655-5811.
This is not a controlled document; it is subject to change without notification.



where $A_i$ = summed areas of the primary and secondary m/z's for the analyte peak of interest (compound *i* )

$A_{si}$ = summed areas of the primary and secondary m/z's for the labelled surrogate peak used to quantify *i* )

$M_x$ = mass of sample taken for analysis

$M_{si}$ = mass of labelled surrogate (compound *si* ) added to sample as calculated by the concentration of standard spiked (pg/mL) multiplied by the volume spiked (mL)

$RRF_{i,si}$ = mean relative response factor of *i* to *si* from the five-point calibration range and defined individually as:

$$\frac{A_i}{A_{si}} \times \frac{M_{si}}{M_i}$$

Calculation of Surrogate Standard Concentrations and Percent Recoveries:
Concentrations of surrogate standards are calculated using the following equation:

$$Conc_{si} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}}$$

and, the percent recoveries of the surrogate standards are calculated using the following equation:

$$\%\text{Recovery} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}} \times \frac{1}{M_{si}} \times 100$$

where $A_{rs}$ and $A_{si}$ are the summed peak areas (from the primary and secondary m/z channels) of recovery standard and labelled surrogate added to the sample;
$M_{rs}$ and $M_{si}$ are the masses of recovery standard and labelled surrogate added to the sample, and;
$RRF_{si,rs}$ is the mean relative response factor of the labelled surrogate to the recovery standard as determined by the five-point calibration range and defined individually as:

$$\frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{M_{si}}$$

# ANALYTICAL RESOURCES INCORPORATED

## CORRELATION TABLE

## PCB CONGENER ANALYSIS

| | |
|---|---|
| **Lab Name: SGS AXYS Analytical Services Ltd.** | **Project Manager: Georgina Brooks** |
| **Project:N/A** | **Contract No: 4323** |
| **Project Name: ICS - NW Cooperage** | **AXYS Method: MLA-010** |
| **Data Package Identification: DPWG59409** | **Program: Aqueous Samples** |
| | |
| **Client Sample No.** | **Lab Sample ID** |
| | |
| LAB BLANK | WG58451-101 |
| LAB BLANK | WG58451-103 |
| LAB BLANK | WG58451-104 |
| OPR | WG58451-102 |
| | |
| ICS-DOFMW1-W-032917 | L27062-1 |
| ICS-SAMW2-W-032917 | L27062-2 |
| ICS-DOFMW3-W-032917 | L27062-3 |

www.axysanalytical.com

**Analytical Resources, Incorporated**
**Analytical Chemists and Consultants**

4323

**SUBCONTRACT ORDER**
**To: AXYS Analytical Services Ltd.**
**ARI Work Order:17C0436**

**SENDING LABORATORY:**

Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168
Phone: (206) 695-6200
Fax: (206) 695-6201
Project Manager: Amanda Volgardsen

**RECEIVING LABORATORY:**

AXYS Analytical Services Ltd.
2045 Mills Road W.
Sydney, BC V8L 3S8
Phone :(250) 655-5800
Fax: -

| Analysis | Due | Expires | Sub Laboratory | Comments |
|---|---|---|---|---|
| **Sample ID: 17C0436-01** | **Water** | **Sampled:29-Mar-2017 16:0** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 16:0( | | |
| *Containers Supplied:* | | | | |
| **17C0436-01 E** Glass NM, Amber, 1000 mL | **17C0436-01 F** Glass NM, Amber, 1000 mL | | | |
| **Sample ID: 17C0436-02** | **Water** | **Sampled:29-Mar-2017 13:4** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 13:4( | | |
| *Containers Supplied:* | | | | |
| **17C0436-02 E** Glass NM, Amber, 1000 mL | **17C0436-02 F** Glass NM, Amber, 1000 mL | | | |
| **Sample ID: 17C0436-03** | **Water** | **Sampled:29-Mar-2017 10:2** | | |
| 1668 PCB Congeners (Subc) | 13-Apr-2017 15:00 | 29-Mar-2018 10:2( | | |
| *Containers Supplied:* | | | | |
| **17C0436-03 E** Glass NM, Amber, 1000 mL | **17C0436-03 F** Glass NM, Amber, 1000 mL | | | |

L27062-1

-2

-3

| Released By | Date | Received By | Date |
|---|---|---|---|
| Brittney Hall | 3/30/17 | M. Wilman | 31MAR2017 11:05 |
| | | | |

Printed: 3/30/2017 11:58:37AM

4323

Analytical Resources, Incorporated
Analytical Chemists and Consultants

# Sample ID Cross Reference Report

**Client:** Dalton, Olmsted & Fuglevand, Inc **Work Order:** 17C0436

**Project:** ICS-NW Cooperage **Project Number:** ICS-NW Cooperage

| LabNumber | SampleName | ClientMatrix | Sampled | SampleReceived |
|---|---|---|---|---|
| 17C0436-01 | ICS-DOFMW1-W-032917 L27062-1 | Water | 29-Mar-2017 16:00 | 30-Mar-2017 10:35 |
| 17C0436-02 | ICS-SAMW2-W-032917 -2 | Water | 29-Mar-2017 13:40 | 30-Mar-2017 10:35 |
| 17C0436-03 | ICS-DOFMW3-W-032917 -3 | Water | 29-Mar-2017 10:25 | 30-Mar-2017 10:35 |

Received by:
31-Mar-2017 11:05
KD 03-Apr-2017

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:BFIA (206) 695-6207
AMANDA VOLGARDSEN
ANALYTICAL RESOURCES, INC.
4611 S. 134TH PLACE
SUITE 100
TUKWILA, WA 98168 US
SIGN: AMANDA VOLGARDSEN

SHIP DATE: 30MAR17
ACTWGT: 39.00 LB
CAD: 7865404/INET3850

BILL SENDER
NO EEI 30.36

TO RECEIVING
AXYS ANALYTICAL SERVICES LTD
2045 MILLS RD

SIDNEY BC V8L5X2 (CA)
(206) 695-6200 REF: APEX
INV:
PO: DEPT:

546J3/1 ADB/53C1

FedEx Express

J171117021402uv

AM

TRK# 0430 7787 8557 7926

INTL PRIORITY

XQ YYJA

V8L 5X2
BC-CA YVR

M. Wilman
31MAR2017 11:05

3/30/2017

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1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.
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# AXYS Analytical Services Ltd
## SAMPLE RECEIVING RECORD

Waybill : (Yes)/No — Waybill #: 778785577926
Date Shipped: 30-MAR-17 — Date /Time Received: 31-MAR-17 11:05
**AXYS Client & Contract #** 4323-ARI
Project Number: — Receipt No: WB21741
Login Number:
Received By: KDEY — Log in by: KDey — Signature:
Axys Sample ID's: L27062 -1 to 3
Matrix Type: waters
Condition of Shipping Container: intact
Temperature upon Receipt: -.6 Celcius — wet ice present
Thermometer ID: 5531
Corrected Temperature: -.6 Celcius

Custody Seals: Shipping Containers (Yes)/No — Intact (Yes)/No — Seal Numbers Yes/(No) date + signature (see attached)
Samples Yes/(No) — Intact Yes/No — Seal Numbers Yes/No

| | | | |
|---|---|---|---|
| Chain of Custody or Documents: | (Yes)/No | Tracking Report /Packing List: | (Yes)/No |
| Sample ID's | (Yes)/No | Sample Tag Numbers | Yes/(No) |
| Collection Location | Yes/(No) | Sample Type | (Yes)/No |
| Date & Time Collection | (Yes)/No | Preservative Added | Yes/(No) |
| Collector's Name | Yes/(No) | Preservation Requested | Yes/(No) |

| | | | |
|---|---|---|---|
| Sample Tags | Yes/(No) | | |
| Sample Labels | (Yes)/No | | |
| Sample Labels Cross Referenced to COC | (Yes)/No | Information Agrees | ~~Yes/No~~ KD 04-Apr-2017 (Yes)/No |
| Sample Tags Cross Referenced to Sample Labels | Yes/No | Information Agrees | Yes/No |
| Sample Tags Cross Referenced to COC | Yes/No | Information Agrees | Yes/No |

Comments:

17C0436-01E arrived with cracked lid; no sample lost; lid teflon-taped upon receipt

KD 04-Apr-2017

Sample ID discrepancies:
eg. COC: ~~1760~~ ~~17C0436-01~~ (2x1L)
KD 04-Apr-2017
~~labels:~~ 17C0436-01E , 17C0436-01F

Action Taken:

~~Samples logged in as per COC~~ KD 04-Apr-2017

consulted client - samples logged in as per instructions supplied via email 4-April-2017. See email attached to this login paperwork. J Brooks.

4323

**CUSTODY SEAL**

Date 3/30/17

nature Brad Hrycy

tab 0

Thermo
SCIENTIFIC

90009

www.axysanalytical.com

for scanning
JBrooks
04-April-2017

**SGS AXYS Analytical Services Ltd.**

**Login Chain of Custody Report (In01)**

*Apr. 04, 2017*
*05:16 PM*

**Login Number:** L27062
**Account:** 4323 ARI
**Project:** ICS-NW COOPERAGE



| Axys ID versus Client Sample Identification | | Received | Due | PR |
|---|---|---|---|---|
| **L27062-1** | | 31-MAR-17 | | |
| | Storage: WIC-2, floor | | | |
| ICS-DOFMW1-W-032917<br>29-MAR-17 16:00 | Project #: ICS-NW COOPERAGE<br>Description: 17C0436-01 | | | |
| EDataDeliv | PB010 EDD | : | | USD |
| Data Package | PB010 DPKG | : | | USD |
| Aqueous | 4:SUSP SOLIDS | : | | USD |
| Aqueous | PB010.1668C | : | | USD |
| Aqueous | PRETREAT | : | | USD |
| ANY | SAMPLE RECEIPT | 2 | : 1 L glass AMB | USD |
| **L27062-2** | | 31-MAR-17 | | |
| | Storage: WIC-2, floor | | | |
| ICS-SAMW2-W-032917<br>29-MAR-17 13:40 | Project #: ICS-NW COOPERAGE<br>Description: 17C0436-02 | | | |
| EDataDeliv | PB010 EDD | : | | USD |
| Data Package | PB010 DPKG | : | | USD |
| Aqueous | 4:SUSP SOLIDS | : | | USD |
| Aqueous | PB010.1668C | : | | USD |
| Aqueous | PRETREAT | : | | USD |
| ANY | SAMPLE RECEIPT | 2 | : 1 L glass AMB | USD |
| **L27062-3** | | 31-MAR-17 | | |
| | Storage: WIC-2, floor | | | |
| ICS-DOFMW3-W-032917<br>29-MAR-17 10:25 | Project #: ICS-NW COOPERAGE<br>Description: 17C0436-03 | | | |
| EDataDeliv | PB010 EDD | : | | USD |
| Data Package | PB010 DPKG | : | | USD |
| Aqueous | 4:SUSP SOLIDS | : | | USD |
| Aqueous | PB010.1668C | : | | USD |
| Aqueous | PRETREAT | : | | USD |
| ANY | SAMPLE RECEIPT | 2 | : 1 L glass AMB | USD |

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DATA PKG. L27062 4323

**Georgina Brooks**

**From:** Amanda Volgardsen [amandav@arilabs.com]
**Sent:** Tuesday, April 04, 2017 9:10 AM
**To:** Georgina Brooks; Mike Elliott
**Cc:** Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello,
The client would like the 1668C method please.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

---

**From:** Amanda Volgardsen
**Sent:** Monday, April 3, 2017 5:02:16 PM
**To:** Georgina Brooks; Mike Elliott
**Cc:** Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello,
Please use the client ID's on page 2 for reporting. Please add the TEQ's to the report. I am checking on the 1668 method now, and will get back to you with the information when I receive it. Thank you for checking on these items.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com



SGS AXYS

**From:** Georgina Brooks <gbrooks@axys.com>
**Sent:** Monday, April 3, 2017 4:47:10 PM
**To:** Amanda Volgardsen; Mike Elliott
**Cc:** Susan Dunnihoo
**Subject:** RE: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello Amanda: Thank you, and I have a few questions.

- can you also confirm which version of EPA Method 1668 your client would like to use "A" or "C"?
- do you want the results reported using the ARI lab number or your client's sample name as it appears on pg 2 of the documents attached?
- and do you want us to report TEQs or will the client calculate their own?

Thank you.

Regards
Georgina

**From:** Amanda Volgardsen [mailto:amandav@arilabs.com]
**Sent:** Monday, April 03, 2017 4:14 PM
**To:** Mike Elliott; Georgina Brooks
**Cc:** Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello Mike,
Attached is the signed quote.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

**From:** Mike Elliott <melliott@axys.com>
**Sent:** Monday, April 3, 2017 1:13:33 PM
**To:** Amanda Volgardsen; Georgina Brooks
**Cc:** Susan Dunnihoo
**Subject:** RE: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Amanda,

Quote attached. Once reviewed, please fill out the appropriate section at the bottom and return. Again, feel free to contact me with any questions.

Respectfully,

Mike S. Elliott, REHS
Business Development Manager-Western US

**SGS AXYS**
2045 Mills Road West
Sidney, BC V8L 5X2

Phone: +1 530 521 8476
Toll Free: +1 888 373 0881
Fax: +1 250 655 5811
E-mail: melliott@axys.com

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---

**From:** Amanda Volgardsen [mailto:amandav@arilabs.com]
**Sent:** Monday, April 03, 2017 12:11 PM
**To:** Mike Elliott; Georgina Brooks
**Cc:** Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Thank You Mike,
I will need the full package, and EDD please.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

---

**From:** Mike Elliott <melliott@axys.com>
**Sent:** Monday, April 3, 2017 12:08:33 PM
**To:** Amanda Volgardsen; Georgina Brooks
**Cc:** Susan Dunnihoo
**Subject:** RE: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Amanda,

Thank you for the information to clarify the client info on this project. Below, I have listed cost information for the samples submitted. In addition, the reporting costs for a Level IV data package and a basic EDD are listed separately. Please let me know if you need any info from us to complete the contracting requirements. I will also get a formal quote sent as a follow up to this email. Feel free to contact me with any questions.

SGS AXYS MLA-010 (EPA1668) aqueous - $925 per sample.
Level IV Data Package - $35 per sample
Basic EDD - $15 per sample.

Respectfully,

Mike S. Elliott, REHS
Business Development Manager-Western US

**SGS AXYS**
2045 Mills Road West
Sidney, BC V8L 5X2

Phone: +1 530 521 8476
Toll Free: +1 888 373 0881
Fax: +1 250 655 5811
E-mail: melliott@axys.com

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---

**From:** Amanda Volgardsen [mailto:amandav@arilabs.com]
**Sent:** Monday, April 03, 2017 10:32 AM
**To:** Georgina Brooks
**Cc:** Mike Elliott; Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello,
Sorry about the additional email, but if you would like to give me a call, I can help with setting up the client information for these samples. I was led to believe that there was already a contract set up for the analysis, but if not I would like to have everything set up to have the PCB Congener analysis run.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

**From:** Amanda Volgardsen
**Sent:** Monday, April 3, 2017 10:16:58 AM
**To:** Georgina Brooks
**Cc:** Mike Elliott; Susan Dunnihoo
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello,
I believe there may have been a misunderstanding with the PCB Congener samples. We will pay for the analysis, and bill the client. Hopefully the samples made it to your lab alright?

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

---

**From:** Amanda Volgardsen
**Sent:** Thursday, March 30, 2017 2:23:20 PM
**To:** Georgina Brooks
**Cc:** Mike Elliott
**Subject:** Re: Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Thank You.

Regards,
Amanda Volgardsen
Analytical Resources, Inc.
Project Management Assistant

206-695-6220

www.arilabs.com

**From:** Georgina Brooks <gbrooks@axys.com>
**Sent:** Thursday, March 30, 2017 1:57:23 PM
**To:** Amanda Volgardsen
**Cc:** Mike Elliott
**Subject:** Regarding shipment of AQ surface water samples for PCBs by EPA method1668

Hello Amanda: I tried calling Matt Dalton at 206-660-3466, and the answering machine I connected to was not for Matt Dalton. Maybe I wrote down the number incorrectly? I have copied Mike Elliot so he can follow up to establish who the client is for this work.

If you would like to ship these samples anyway I have attached a partially completed Commercial Invoice. We recommend using the descriptions and verbage but you will need to correct anything that is not accurate (for example I have assumed you are sending 1L amber glass bottles) so that it matches your shipment exactly. You do not need any special permits for AQ samples.

Let me know if there is anything else you need.

Regards
Georgina

---

Georgina Brooks

**SGS AXYS**
2045 W. Mills Road
Sidney, BC V8L 5X2

Phone: +1 250 655 5800
Direct: +1 250 655 5801
Fax: +1 250 655 5811
E-mail: gbrooks@axys.com

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Analytical Chemists and Consultants
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**Analytical Resources, Incorporated**
Analytical Chemists and Consultants

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AXYS Analytical Services Ltd.

# Water Pretreatment Record

Contract: 4323 Date: 03-Apr-2017 $H_2SO_4$ Lot No.

Analyst: KD $Na_2S_2O_3$ Lot No.

| LIMS I.D. | Bottle Number | Client ID | pH Adjustment | | Residual Chlorine * | | Other Preservative |
|---|---|---|---|---|---|---|---|
| | | | Initial pH | Final pH | SLA-110 pos or neg | Amt of $Na_2S_2O_3$ Added (80 mg/L) | Amount Added |
| L27062-1 | 1 of 2 | ICS-DOFMW1-W-032917 ~~1760436-01~~ KD 04-Apr-2017 | — | — | neg | — | — |
| L27062-2 | 1 of 2 | ICS-SAMW2-W-032917 ~~1760436-02~~ KD 04-Apr-2017 | — | — | neg | — | — |
| L27062-3 KD 3-Apr-2017 | 1 of 2 | ICS-DOFMW3-W-032917 ~~1760436-03~~ KD 04-Apr-2017 | — | — | neg | — | — |
| L27062-3 | 1 of 2 | Duplicate Test | — | — | neg | — | — |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

* Determined by HACH Test or Starch/KI Test (SLA-110).

For samples requiring pretreatment, were all available bottles for the sample pretreated? (Yes) No

Checked by: I.H.

Date: 04 APR 2017

Comments

# BATCH ID: WG58451

| | |
|---|---|
| **Method ID: MLA-010 R11.06** | |
| **Method ID:** | |
| **Method ID:** | |
| **Analyst:** | |
| **Start Date:** | **05-Apr-17** |
| Batch List Author: | CROWAN |
| Checked By: | EK |
| Project Manager: | Sean C, Georgina B |
| **Glassware Type:** | **Regular** |
| **Glassware Treatment:** | **Regular** |
| **Rotovap Type:** | **Regular** |
| | |
| **Matrix:** | Aqueous, Effluent final |
| **Sample size:** | 1 L |
| **Moistures required?** | SS-YES |
| **Lipids required?** | NO |
| **Extraction Solvent:** | DCM |
| | |
| | |
| **Biohazard Type:** | None |

**Comments:**

Sample size = 1 L (consume bottle).

Include an SR with 500 uL of diluted SUR, 5 uL REC, FV =500 uL, Do not run, Archive.

Effluents might require biobead. Assess the extracts.

Calibration: | PB109A-CAL/ & PB108(A-H)-CAL/

**previous WG's associated with samples:**

; #Keep Discards: 0

| Contract # | Sample | Wt | Contract # | Sample | Wt |
|---|---|---|---|---|---|
| 4083 | L27044-1 | 1 L | | | |
| 4083 | L27044-2 | 1 L | | | |
| 4170 | L26772-1 | 1 L | | | |
| 4170 | L26772-2 | 1 L | | | |
| 4170 | L26842-1 | 1 L | | | |
| 4170 | L26842-2 | 1 L | | | |
| 4170 | L27028-1 | 1 L | | | |
| 4323 | L27062-1 | 1 L | | | |
| 4323 | L27062-2 | 1 L | | | |
| 4323 | L27062-3 | 1 L | | | |

**Spiking:**

| Product | Samples required: | Before Extraction: Surrogate (4290) vd. JCM | After Extraction: Cleanup Surrogate | Recovery KE | F.V. | U-vial | Instructions and Comments: |
|---|---|---|---|---|---|---|---|
| PB010.1668A | L27044-1, 2, L26772-1, 2, L26842-1, 2, L27028-1, L27062-1, -2, -3 WG58451-101, 102, 103, 104 | 1000uL OF 500X DILUTION OF PB051A-SUR/ 01 #14 | CEL (4312) #141,140,142 20uL PB048A-SUR/06 | 5uL PB020A-REC/07 (4311) #4 | 20 uL | GCMS | none |
| PB010.1668A | WG58451-105 | 500uL OF 500X DILUTION OF PB051A-SUR/ | N/A | KE (4311) #7 5uL PB020A-REC/06 | 500 uL | GCMS | |

**BATCH ID: WG58451**

| QC Samples | Type and Weight | Analysis QC required for: | Authentic spiking: | Comments: |
|---|---|---|---|---|
| WG58451-101 BLANK | 1L SEASTAR ULTRA PURE WATER | PB010.1668A<br>PB010.1668C<br>exact jcm #93 | | |
| WG58451-102 SPM | 1L SEASTAR ULTRA PURE WATER | PB010.1668A<br>PB010.1668C | 1000uL PB071A-AUT/ 02 | |
| WG58451-103 BLANK | 1L SEASTAR ULTRA PURE WATER | PB010.1668A<br>PB010.1668C | | |
| WG58451-104 BLANK | 1L SEASTAR ULTRA PURE WATER | PB010.1668A<br>PB010.1668C | | |
| WG58451-105 SR | | PB010.1668A<br>PB010.1668C | | |

| QC Samples | Type and Weight | Analysis QC required for: | Authentic spiking: | Comments: |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

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**WorkGroup: WG58451**

| Sample | Contract | Product | Matrix | Lab Code | Additional Work Action | Reason | Requested by/date | | Lab Completed by/Date | | Inst. Completed by/Date | | Remedial Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L27062-3 | 4323 | PB010.1668C | AQ | I | REINJECT | potential sample carryover | TDO | 15/Apr/2017 | | | AWILLIAMS | 17/Apr/2017 | |
| WG58451-101 | BLANK | PB010.1668A | AQ | I | REINJECT | continuing calibration did not meet all method specifications | BARVI | 12/Apr/2017 | | | AWILLIAMS | 12/Apr/2017 | |
| WG58451-102 | SPM | PB010.1668A | AQ | I | REINJECT | continuing calibration did not meet all method specifications | BARVI | 12/Apr/2017 | | | AWILLIAMS | 12/Apr/2017 | |
| WG58451-103 | BLANK | PB010.1668A | AQ | I | REINJECT | continuing calibration did not meet all method specifications | BARVI | 12/Apr/2017 | | | AWILLIAMS | 12/Apr/2017 | |
| WG58451-104 | BLANK | PB010.1668A | AQ | I | REINJECT | continuing calibration did not meet all method specifications | BARVI | 12/Apr/2017 | | | AWILLIAMS | 12/Apr/2017 | |

Reviewed by/Date SJH 04-May-2017

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**Sample Labeling Information:** Batch ID: WG58451 Date: 05Apr2017 Analyst: EK Contract #: 4323

Method: MLA-010 R11.06

| Sample ID | Sample Type and Description | Original Labelling | LIMS label correct as per client |
|---|---|---|---|
| L27062-1 | Cloudy orange liquid | ICS-DOFMW1-W-032917 1of2 | ☐ |
| L27062-2 | Slightly cloudy yellow liquid | ICS-SAMW2-W-032917 1of2 | ☐ |
| L27062-3 | Clear dark-brown liquid | ICS-DOFMW3-W-032917 1of2 | ☐ |
| | | KB 12APR2017 | ☐ |
| | | | ☐ |
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| | | | ☐ |

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**Sample Labeling Information:** Batch ID: WG58451 Date: 05Apr2017 Analyst: Ek Contract #: NONE

Method: MLA-010 R11.06

| Sample ID | Sample Type and Description | Original Labelling | LIMS label correct as per client |
|---|---|---|---|
| WG58451-101 (BLANK) | Procedural Blank<br>clear colourless liquid | Seastar Ultra Pure Water bottled: 22Mar2017<br>04Apr2017 | ☐ |
| WG58451-102 (SPM) | Spiked Matrix<br>clear colourless liquid | Seastar Ultra Pure Water bottled: 04Apr2017 | ☐ |
| WG58451-103 (BLANK) | Procedural Blank<br>clear colourless liquid | Seastar Ultra Pure Water bottled: 04Apr2017 | ☐ |
| WG58451-104 (BLANK) | Procedural Blank<br>clear colourless liquid | Seastar Ultra Pure Water bottled: 04APR2017 | ☐ |
| WG58451-105 (SR) | SR | SR | ☐ |
| | | KB12APR2017 | ☐ |
| | | | ☐ |
| | | | ☐ |
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| | | | ☐ |

FWO-305 Rev 07, 18-Dec-2012

Reviewed by KB date 12APR2017



SGS AXYS

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**Sample Wt #2 :** Batch ID: WG58451 Analyst EK Date: 05Apr2017 Balance #: 3547

Method: MLA-010 R11.06

| Sample ID | Sample wt (g) (Compositing SLA-084 ____) | | | | | | Subsample required (SLA-084 (g) _____) | | | | Sample Wt. (g) | Filtered Y/N | Solid & Aq extracts combined Y/N | Solids Stored Y/N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Container _____ + Sample | Container _____ + Sample | Container _____ | Container _____ | Sample wt ___ | Sample wt ___ | Bottle + cap + sample | Empty bottle | Total sample | Remaining sample | | | | |
| L26772-1 | 1514.39 | | 513.83 | | | | | | | | 1000.56 | N | NA | NA |
| L26772-2 | 1540.95 | | 512.96 | | | | | | | | 1027.99 | | | |
| L26842-1 | 1524.31 | | 513.74 | | | | | | | | 1010.57 | | | |
| L26842-2 | 1529.23 | | 508.12 | | | | | | | | 1021.11 | | | |
| L27028-1 | 1535.25 | | 512.71 | | | | | | | | 1022.54 | | | |
| L27044-1 | 1314.97 | | 427.02 | | | | | | | | 887.95 | | | |
| L27044-2 | 1350.19 | | 428.49 | | | | | | | | 921.70 | | | |
| L27062-1 | 1503.47 3.68 | 05Apr2017 EK | 512.45 | | | | | | | | 991.23 | | | |
| L27062-2 | 1513.43 | | 513.70 | | | | | | | | 999.73 | | | |
| L27062-3 | 1512.63 | | 514.71 | | | | | | | | 997.92 | | | |
| WG58451-101 (BLANK) | KB12APR2017 | | | | | | | | | | 1000.95 | | | |
| WG58451-102 (SPM) | | | | | | | | | | | 1005.18 | | | |
| WG58451-103 (BLANK) | | | | | | | | | | | 1002.03 | | | |
| WG58451-104 (BLANK) | | | | | | | | | | | 1004.75 | | | |
| WG58451-105 (SR) | KB12APR2017 | | | | | | | | | | NA | NA | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

**Extraction Information:**

**Stirring:** Solvent used: DCM #101178 volume: 300 mL Analyst: EK

Start Date: 05Apr2017 time: 1120 end Date: 05Apr2017 time: 1200 KB12APR2017

**Shaking:** Solvent used: DCM # of shakes: _____ volume: _____ mL Analyst: _____

Date: _____ time: _____

**Particulate** (soxhlet extraction): Solvent: _____ volume: _____ mL Analyst: _____

Start Date: _____ time: _____ end Date: _____ time: _____

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**Spiking Sheet**: Batch ID: WG58451 Method: MLA-010 R11.06

Witness name/ initials: Lei Chan/LRC

| Sample ID | Before extraction<br>Surr. ID: WG58451-SUB/01<br>Date: 05Apr2017<br>Vol.: 1000/500 µL<br>Syringe#: 4290<br>Ampoule: NA<br>Analyst: EK | | Before extraction<br>Surr. ID:<br>Date:<br>Vol.: µL<br>Syringe#:<br>Ampoule:<br>Analyst: | | Cleanup Std.<br>Surr.: PB048A-SUB/06<br>Date: 06Apr2017<br>Vol.: 20 µL<br>Syringe#: 4312<br>Ampoule: #142, 140<br>Start time: 5:30<br>Fin. time: 9:07 | Cleanup Std.<br>Surr.:<br>Date:<br>Vol.: µL<br>Syringe#:<br>Ampoule:<br>Start time:<br>Fin. time: | Recovery<br>Surr.: PB020A-Rec/02<br>Date: 11Apr 2017<br>Vol.: 5 µL<br>F.V.: 20,500 µL<br>Syringe#: 4311<br>Ampoule: #7<br>Start time: 12:20<br>Fin. time: 12:30 | Recovery<br>Surr.: PB020A-Rec/07<br>Date: 11Apr 2017<br>Vol.: 5 µL<br>F.V.: 20,500 µL<br>Syringe#: 4311<br>Ampoule: #49<br>Start time: 12:20<br>Fin. time: 12:30 |
|---|---|---|---|---|---|---|---|---|
| | Time | Witness | Time | Witness | Analyst: LRC | Analyst: | Analyst: SV | Analyst: SV |
| L26772-1 | 10:54 | LRC | | | ☑ * | ☐ | ☑ | ☐ |
| L26772-2 | 10:54 | LRC | | | ☑ * | ☐ | ☐ 11 Apr 2017 SV | ☑ |
| L26842-1 | 10:55 | LRC | | | ☑ | ☐ | ☐ | ☑ |
| L26842-2 | 10:55 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| L27028-1 | 11:01 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| L27044-1 | 10:55 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| L27044-2 | 10:56 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| L27062-1 | 10:56 | LRC | | | ☑ | ☐ | ☐ | ☑ |
| L27062-2 | 10:57 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| L27062-3 | 10:57 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| WG58451-101 (BLANK) | 10:58 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| WG58451-102 (SPM) | 10:58 | LRC | | | ☑ | ☐ | ☑ | ☐ |
| WG58451-103 (BLANK) | 10:59 | LRC | | | ☑ | ☐ | ☐ | ☑ |
| WG58451-104 (BLANK) | 10:59 | LRC | | | ☑ | ☐ | ☐ | ☑ |
| WG58451-105 (SR) * | 11:02 | LRC | KB12APR2017 | | ☐ | ☐ | ☐ | ☑ |
| | | | | | ☐ | KB12APR2017 | ☐ 11 Apr 2017 SV | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |
| | | | | | ☐ | ☐ | ☐ | ☐ |

| Sample ID | Authentic Std: PB071A-AUT/02<br>Date: 05Apr2017<br>Vol.: LRC 5 1000 µL<br>Syringe#: 75Apr2017 exactly<br>Ampoule#: 93<br>Analyst: EK | | Authentic Std:<br>Date:<br>Vol.: µL<br>Syringe#:<br>Ampoule#:<br>Analyst: | | Authentic Std:<br>Date:<br>Vol.: µL<br>Syringe#:<br>Ampoule#:<br>Analyst: | |
|---|---|---|---|---|---|---|
| | Time | Witness | Time | Witness | Time | Witness |
| WG58451-102 SPM =101 LRC 05Apr2017 | 10:50 | LRC | | | | |
| | | | | | | |
| | | | | | | |
| | KB12APR2017 | | KB12APR2017 | | | |

FWO-310 Rev 09, 10-Jan-2014

Reviewed by KB date 12APR2017

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**Extract Cleanup - Biobead/Cu** **WorkGroup:** WG58451 **Method:** MLA-010 R11.06

KB|12APR2017

| Sample ID | BB # | BB# | Cu Test 1: | Cu Test 2: | Cu Test 3: | Cu Test 4: | Cu Test 5: | Cu Test 6: |
|---|---|---|---|---|---|---|---|---|
| | Portion: | Portion: | Date: 07-Apr-2017 | Date: 10 Apr 2017 | Date: | Date: | Date: | Date: |
| | | | Time: 14:00 | Time: 08:30 | Time: | Time: | Time: | Time: |
| | | | Portion: PB | Portion: PB | Portion: | Portion: | Portion: | Portion: |
| | | | Chemist: ORA | Chemist: JRA | Chemist: | Chemist: | Chemist: | Chemist: |
| L26772-1 | | | ___ +ve ✓ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L26772-2 | | | ___ +ve ✓ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L26842-1 | | | ___ +ve ✓ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L26842-2 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27028-1 | | | ___ +ve ✓ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27044-1 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27044-2 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27062-1 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27062-2 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| L27062-3 | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| WG58451-101 (BLANK) | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| WG58451-102 (SPM) | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| WG58451-103 (BLANK) | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| WG58451-104 (BLANK) | | | ___ +ve ___ -ve | ___ +ve ✓ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| WG58451-105 (SR) | | | ___ +ve ___ -ve ORA | ___ +ve N/A -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| KB\|12APR2017 | | | 07-Apr-2017 ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
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| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |
| | | | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve | ___ +ve ___ -ve |

Reviewed by: KB Date: 12APR2017

AXYS Analytical Services Ltd

**Extract Cleanup - Columning, etc.** **WorkGroup:** WG58451

**Method:** MLA-010 R11.06

| Cleanup Type | Portion | Date | Time | Batch # / Type | Chemist | Pre-Elute | F1 (solvent, batch #, vol [mL]) | F2 (solvent, batch #, vol [mL]) | F3 (solvent, batch #, vol [mL]) |
|---|---|---|---|---|---|---|---|---|---|
| A/B Si (PCB/BE) | PB | 06Apr2017 | 8:30 | 4.0g | LRC | NO | Hex 100 mL (101477) | N/A | N/A KB12APR2017 |
| CC (PCB) | | | | | | | Hex | Tol | |
| Al (PCB) | PB | 07 Apr2017 | 10:30 | #313 6.0g | ORA | NO | Hex 10mL # 101477 | 1:1 DCM:Hex 45mL # 1035-02 | N/A |
| Fl (PCB/BE) | PB | 07 Apr 2017 | 14:30 | #466 8.0g | ORA | NO | 15% DCM/Hex 30mL #1041-02 | N/A | N/A |
| BB | | | | | | | 1:1 DCM:Hex | 1:1 DCM:Hex | KB12APR2017 |
| | | | | | | | | | |
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**Solvent Exchange**

| Before | Portion | Date | Time | Vol | Chemist |
|---|---|---|---|---|---|
| | | | | | |
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**Extract Wash**

| | |
|---|---|
| Date: | |
| Chemist: | |
| Start time: | |
| **Acid/Base Wash** | **MeCN:H20 Wash** |
| 20% KOH: | pH 10: |
| # times: | # times: |
| Water: | pH 7: |
| H2SO4: | pH 2: |
| # times: | |
| Water: | |

**Acetylation (AP)**

| |
|---|
| Date: |
| Time (1st) (2nd) |
| ~~200µL Hex:~~ |
| 50µL x2 Pyridine: lot #_____ |
| 50µL x2 Acetic Anhydride: batch #_____ |
| Chemist: |

**Ext'n After Acetylation**

| |
|---|
| Date: |
| Start Time: KB12APR2017 |
| 1.75 mL 0.2M $K_2CO_3$: batch #_____ |
| 500µL x3 Hex: |
| Chemist: |



Reviewed by: KB Date: 12APR2017

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**Notes**: Batch ID: WG58451 Method: MLA-010 R11.06

| Date: | Analyst | Fraction | Notes: |
|---|---|---|---|
| | | | |

KB 12APR2017

Reviewed by KB date 12APR2017

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.991 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 8** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | B J | 3.73 | 0.504 (Q) | 3.12 | 1.001 |
| **3-MoCB** | 2 | | B J | 1.77 | 0.504 (Q) | 3.26 | 0.988 |
| **4-MoCB** | 3 | | K B J | 2.60 | 0.504 (Q) | 4.05 | 1.001 |
| **2,2'-DiCB** | 4 | | B | 222 | 1.04 (S) | 1.55 | 1.001 |
| **2,3-DiCB** | 5 | | U | | 0.685 (S) | | |
| **2,3'-DiCB** | 6 | | J | 5.85 | 0.626 (S) | 1.57 | 1.175 |
| **2,4-DiCB** | 7 | | B J | 3.17 | 0.641 (S) | 1.79 | 1.159 |
| **2,4'-DiCB** | 8 | | B | 36.7 | 0.592 (S) | 1.61 | 1.208 |
| **2,5-DiCB** | 9 | | J | 1.19 | 0.628 (S) | 1.56 | 1.146 |
| **2,6-DiCB** | 10 | | J | 5.39 | 0.658 (S) | 1.76 | 1.013 |
| **3,3'-DiCB** | 11 | | B | 53.3 | 0.634 (S) | 1.58 | 0.969 |
| **3,4-DiCB** | 12 | 12 + 13 | C J | 7.72 | 0.646 (S) | 1.70 | 0.985 |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 0.632 (S) | | |
| **4,4'-DiCB** | 15 | | B | 411 | 0.727 (S) | 1.55 | 1.000 |
| **2,2',3-TriCB** | 16 | | B | 1970 | 0.504 (Q) | 1.06 | 1.165 |
| **2,2',4-TriCB** | 17 | | B | 1780 | 0.504 (Q) | 1.07 | 1.139 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C B | 4660 | 0.504 (Q) | 1.05 | 1.114 |
| **2,2',6-TriCB** | 19 | | B | 1050 | 0.504 (Q) | 1.05 | 1.001 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C B | 3140 | 2.10 (S) | 1.03 | 0.848 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C B | 184 | 2.09 (S) | 1.03 | 0.857 |
| **2,3,4'-TriCB** | 22 | | B | 145 | 2.29 (S) | 1.06 | 0.872 |
| **2,3,5-TriCB** | 23 | | U | | 2.35 (S) | | |
| **2,3,6-TriCB** | 24 | | U | | 0.504 (Q) | | |
| **2,3',4-TriCB** | 25 | | B | 104 | 1.90 (S) | 1.05 | 0.826 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C B | 351 | 2.16 (S) | 1.05 | 1.303 |
| **2,3',6-TriCB** | 27 | | | 347 | 0.504 (Q) | 1.06 | 1.152 |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | B | 1630 | 2.06 (S) | 1.03 | 0.837 |
| **2,4',6-TriCB** | 32 | | B | 1640 | 2.10 (S) | 1.04 | 1.197 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | J | 8.47 | 2.22 (S) | 0.93 | 1.274 |
| **3,3',4-TriCB** | 35 | | | 26.2 | 2.17 (S) | 1.08 | 0.988 |
| **3,3',5-TriCB** | 36 | | U | | 2.07 (S) | | |
| **3,4,4'-TriCB** | 37 | | B | 392 | 2.55 (S) | 1.03 | 1.001 |
| **3,4,5-TriCB** | 38 | | U | | 2.07 (S) | | |
| **3,4',5-TriCB** | 39 | | | 40.1 | 1.94 (S) | 0.99 | 0.947 |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C B | 2850 | 0.504 (Q) | 0.78 | 1.337 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | B | 1360 | 0.504 (Q) | 0.78 | 1.312 |
| **2,2',3,5-TeCB** | 43 | | | 271 | 0.504 (Q) | 0.78 | 1.247 |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C B | 5470 | 0.504 (Q) | 0.79 | 1.286 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C B | 1620 | 0.504 (Q) | 0.80 | 1.146 |
| **2,2',3,6'-TeCB** | 46 | | | 550 | 0.504 (Q) | 0.80 | 1.161 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | B | 1110 | 0.504 (Q) | 0.79 | 1.274 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C B | 3270 | 0.504 (Q) | 0.79 | 1.259 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C B | 1370 | 0.504 (Q) | 0.78 | 1.112 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | B | 7800 | 0.504 (Q) | 0.79 | 1.235 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | | 21.0 | 0.504 (Q) | 0.74 | 1.002 |
| **2,3,3',4-TeCB** | 55 | | U | | 7.16 (S) | | |
| **2,3,3',4'-TeCB** | 56 | | B | 1120 | 7.19 (S) | 0.79 | 0.905 |
| **2,3,3',5-TeCB** | 57 | | U | | 6.17 (S) | | |
| **2,3,3',5'-TeCB** | 58 | | U | | 6.77 (S) | | |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C | 329 | 0.504 (Q) | 0.78 | 1.302 |
| **2,3,4,4'-TeCB** | 60 | | | 243 | 7.16 (S) | 0.80 | 0.911 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C B | 4190 | 6.64 (S) | 0.78 | 0.874 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | | 29.0 | 6.40 (S) | 0.87 | 0.864 |
| **2,3,4',6-TeCB** | 64 | | B | 1640 | 0.504 (Q) | 0.80 | 1.349 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | B | 2280 | 6.52 (S) | 0.78 | 0.884 |
| **2,3',4,5-TeCB** | 67 | | | 36.1 | 5.53 (S) | 0.76 | 0.857 |
| **2,3',4,5'-TeCB** | 68 | | U | | 6.11 (S) | | |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | J | 16.0 | 6.23 (S) | 0.69 | 0.823 |
| **2,3',5',6-TeCB** | 73 | | U | | 0.504 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | | 125 | 8.32 (S) | 0.83 | 1.000 |
| **3,3',4,5-TeCB** | 78 | | U | | 7.16 (S) | | |
| **3,3',4,5'-TeCB** | 79 | | J | 18.7 | 5.96 (S) | 0.76 | 0.969 |
| **3,3',5,5'-TeCB** | 80 | | U | | 6.41 (S) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 8.14 (S) | | |
| **2,2',3,3',4-PeCB** | 82 | | | 315 | 3.07 (S) | 1.53 | 0.933 |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C | 1280 | 2.87 (S) | 1.59 | 0.885 |
| **2,2',3,3',6-PeCB** | 84 | | | 965 | 3.05 (S) | 1.58 | 1.163 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C | 328 | 2.33 (S) | 1.57 | 0.920 |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C B | 2190 | 2.40 (S) | 1.59 | 0.901 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C | 405 | 2.71 (S) | 1.63 | 1.154 |
| **2,2',3,4,6'-PeCB** | 89 | | | 64.5 | 2.85 (S) | 1.44 | 1.182 |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C B | 11100 | 2.39 (S) | 1.58 | 0.869 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | | 1310 | 2.71 (S) | 1.57 | 0.853 |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C B | 11500 | 2.58 (S) | 1.60 | 1.120 |
| **2,2',3,5,6'-PeCB** | 94 | | | 25.4 | 2.86 (S) | 1.44 | 1.102 |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | | 48.3 | 0.504 (Q) | 1.63 | 1.015 |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | | 59.0 | 2.30 (S) | 1.59 | 1.094 |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.504 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | | 535 | 7.21 (S) | 1.60 | 1.001 |
| **2,3,3',4,5-PeCB** | 106 | | U | | 6.16 (S) | | |
| **2,3,3',4',5-PeCB** | 107 | | | 80.2 | 6.48 (S) | 1.57 | 0.997 |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C | 45.8 | 6.97 (S) | 1.39 | 0.990 |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C B | 4680 | 2.05 (S) | 1.58 | 0.924 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 2.01 (S) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 1.91 (S) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | | 23.3 | 7.53 (S) | 1.65 | 1.000 |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | B | 1800 | 7.45 (S) | 1.54 | 1.000 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | K J | 4.93 | 1.85 (S) | 2.05 | 0.958 |
| **2,3',4,5',6-PeCB** | 121 | | U | | 2.08 (S) | | |
| **2',3,3',4,5-PeCB** | 122 | | J | 12.2 | 7.46 (S) | 1.42 | 1.010 |
| **2',3,4,4',5-PeCB** | 123 | | | 22.5 | 7.93 (S) | 1.45 | 1.000 |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | U | | 9.49 (S) | | |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 7.39 (S) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C | 431 | 6.73 (S) | 1.29 | 0.958 |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C B | 11000 | 6.57 (S) | 1.26 | 0.928 |
| **2,2',3,3',4,5'-HxCB** | 130 | | | 284 | 8.18 (S) | 1.28 | 0.913 |
| **2,2',3,3',4,6-HxCB** | 131 | | | 73.4 | 7.69 (S) | 1.18 | 1.159 |
| **2,2',3,3',4,6'-HxCB** | 132 | | | 4230 | 8.02 (S) | 1.26 | 1.174 |
| **2,2',3,3',5,5'-HxCB** | 133 | | | 122 | 7.49 (S) | 1.34 | 1.191 |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C | 614 | 7.50 (S) | 1.22 | 1.139 |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C B | 10500 | 0.504 (Q) | 1.26 | 1.103 |
| **2,2',3,3',6,6'-HxCB** | 136 | | | 3520 | 0.504 (Q) | 1.25 | 1.023 |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 7.88 (S) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C J | 7.29 | 6.68 (S) | 1.25 | 1.152 |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | | 4250 | 7.09 (S) | 1.24 | 0.903 |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 7.43 (S) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | | 1180 | 0.504 (Q) | 1.24 | 1.121 |
| **2,2',3,4,6,6'-HxCB** | 145 | | U | | 0.504 (Q) | | |
| **2,2',3,4',5,5'-HxCB** | 146 | | | 2040 | 5.72 (S) | 1.27 | 0.884 |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C B | 18400 | 6.47 (S) | 1.26 | 1.133 |
| **2,2',3,4',5,6'-HxCB** | 148 | | K J | 2.34 | 0.504 (Q) | 0.99 | 1.083 |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | J | 4.96 | 0.504 (Q) | 1.27 | 1.012 |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | U | | 0.504 (Q) | | |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C B | 16300 | 5.91 (S) | 1.26 | 0.899 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.504 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 671 | 7.22 (S) | 1.23 | 1.000 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | | 884 | 5.08 (S) | 1.24 | 0.938 |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 5.44 (S) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

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|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 4.95 (S) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 5.40 (S) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | | 754 | 5.34 (S) | 1.29 | 0.921 |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 6.02 (S) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 202 | 6.12 (S) | 1.32 | 1.000 |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 6.48 (S) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | | 2910 | 0.504 (Q) | 1.04 | 1.000 |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C | 970 | 0.504 (Q) | 1.04 | 1.163 |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | | 539 | 0.504 (Q) | 1.05 | 0.897 |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | | 4550 | 0.504 (Q) | 1.04 | 1.133 |
| **2,2',3,3',4,5',6-HpCB** | 175 | | | 176 | 0.504 (Q) | 1.06 | 1.102 |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | | 641 | 0.504 (Q) | 1.03 | 1.034 |
| **2,2',3,3',4',5,6-HpCB** | 177 | | | 1950 | 0.504 (Q) | 1.04 | 1.145 |
| **2,2',3,3',5,5',6-HpCB** | 178 | | | 913 | 0.504 (Q) | 1.04 | 1.085 |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | | 2360 | 0.504 (Q) | 1.03 | 1.009 |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C B | 9550 | 0.504 (Q) | 1.03 | 1.000 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | J | 5.87 | 0.504 (Q) | 0.93 | 1.156 |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.504 (Q) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C | 2770 | 0.504 (Q) | 1.05 | 1.127 |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.504 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.504 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | | 5740 | 0.504 (Q) | 1.04 | 1.110 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.504 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 119 | 0.969 (S) | 0.99 | 1.001 |
| **2,3,3',4,4',5,6-HpCB** | 190 | | | 627 | 0.504 (Q) | 1.06 | 0.947 |
| **2,3,3',4,4',5',6-HpCB** | 191 | | | 126 | 0.504 (Q) | 1.07 | 0.917 |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.504 (Q) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | | 1200 | 0.964 (S) | 0.93 | 0.991 |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | | 373 | 0.901 (S) | 0.88 | 0.945 |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | | 547 | 0.504 (Q) | 0.90 | 0.916 |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C | 228 | 0.504 (Q) | 0.87 | 1.047 |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C | 1260 | 0.504 (Q) | 0.89 | 1.115 |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | | 168 | 0.504 (Q) | 0.93 | 1.023 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 266 | 0.504 (Q) | 0.94 | 1.000 |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | | 669 | 0.504 (Q) | 0.93 | 0.920 |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.504 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 53.4 | 0.790 (S) | 0.93 | 1.000 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 127 | 0.560 (S) | 0.77 | 1.000 |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | | 20.4 | 0.504 (Q) | 0.72 | 1.020 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 30.6 | 0.504 (Q) | 0.80 | 1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | K B J | 3.04 | 0.504 (Q) | 0.97 | 1.000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16681A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-1_Form1A_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.991 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 8** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 823 | 41.2 | 3.21 | 0.718 |
| **13C12-4-MoCB** | 3L | | | 2000 | 859 | 42.9 | 3.13 | 0.858 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 917 | 45.9 | 1.61 | 0.874 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 1140 | 57.2 | 1.59 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 976 | 48.8 | 1.05 | 1.072 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 1350 | 67.4 | 1.06 | 1.091 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 1330 | 66.5 | 0.78 | 0.810 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 1270 | 63.5 | 0.78 | 1.396 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 1300 | 64.9 | 0.79 | 1.373 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 1220 | 61.1 | 1.59 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1330 | 66.5 | 1.60 | 1.200 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1240 | 62.0 | 1.62 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 1280 | 63.8 | 1.58 | 1.162 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 1270 | 63.3 | 1.59 | 1.152 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1150 | 57.4 | 1.57 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 1400 | 70.0 | 1.25 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 2670 | 66.8 | 1.27 | 1.107 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 1310 | 65.7 | 1.28 | 1.078 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 1430 | 71.4 | 1.25 | 1.191 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 1510 | 75.6 | 1.05 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 1520 | 75.9 | 1.05 | 0.872 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 1010 | 50.4 | 1.07 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 1480 | 74.0 | 1.05 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 864 | 43.2 | 0.90 | 0.818 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 1350 | 67.6 | 0.90 | 1.009 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 1270 | 63.4 | 0.77 | 1.043 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 1130 | 56.3 | 0.81 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 1230 | 61.3 | 1.21 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1630 | 81.5 | 1.07 | 0.924 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1360 | 68.1 | 1.60 | 1.088 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1400 | 69.8 | 1.06 | 1.012 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-1_Form2_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.991 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 8** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 5.50 |
| **Total Dichloro Biphenyls** | | 746 |
| **Total Trichloro Biphenyls** | | 17500 |
| **Total Tetrachloro Biphenyls** | | 35700 |
| **Total Pentachloro Biphenyls** | | 36800 |
| **Total Hexachloro Biphenyls** | | 75500 |
| **Total Heptachloro Biphenyls** | | 33900 |
| **Total Octachloro Biphenyls** | | 4760 |
| **Total Nonachloro Biphenyls** | | 178 |
| **Decachloro Biphenyl** | U | |
| **TOTAL PCBs** | | 205000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form1668HTII.xsl; Created: 21-Apr-2017 15:39:55; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_HomTotals-TEQsC_L27062-1_Form1AHT_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 9** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | B | 720 | 0.500 (Q) | 3.16 | 1.001 |
| **3-MoCB** | 2 | | B J | 11.0 | 0.500 (Q) | 3.25 | 0.988 |
| **4-MoCB** | 3 | | B | 94.0 | 0.500 (Q) | 3.20 | 1.001 |
| **2,2'-DiCB** | 4 | | B | 4250 | 2.32 (S) | 1.55 | 1.000 |
| **2,3-DiCB** | 5 | | | 43.1 | 1.52 (S) | 1.50 | 1.197 |
| **2,3'-DiCB** | 6 | | | 1290 | 1.39 (S) | 1.55 | 1.177 |
| **2,4-DiCB** | 7 | | B | 79.7 | 1.42 (S) | 1.51 | 1.159 |
| **2,4'-DiCB** | 8 | | B | 2640 | 1.31 (S) | 1.55 | 1.206 |
| **2,5-DiCB** | 9 | | | 153 | 1.39 (S) | 1.56 | 1.147 |
| **2,6-DiCB** | 10 | | | 112 | 1.46 (S) | 1.50 | 1.013 |
| **3,3'-DiCB** | 11 | | B | 83.8 | 1.41 (S) | 1.54 | 0.968 |
| **3,4-DiCB** | 12 | 12 + 13 | C | 158 | 1.43 (S) | 1.55 | 0.984 |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 1.40 (S) | | |
| **4,4'-DiCB** | 15 | | B | 417 | 1.61 (S) | 1.59 | 1.001 |
| **2,2',3-TriCB** | 16 | | B | 2770 | 0.540 (S) | 1.06 | 1.165 |
| **2,2',4-TriCB** | 17 | | B | 2980 | 0.500 (Q) | 1.06 | 1.138 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C B | 7120 | 0.500 (Q) | 1.05 | 1.114 |
| **2,2',6-TriCB** | 19 | | B | 1220 | 0.526 (S) | 1.06 | 1.001 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C B | 3970 | 5.43 (S) | 1.04 | 0.848 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C B | 1600 | 5.42 (S) | 1.05 | 0.857 |
| **2,3,4'-TriCB** | 22 | | B | 1290 | 5.95 (S) | 1.04 | 0.871 |
| **2,3,5-TriCB** | 23 | | U | | 6.09 (S) | | |
| **2,3,6-TriCB** | 24 | | | 58.9 | 0.500 (Q) | 1.02 | 1.159 |
| **2,3',4-TriCB** | 25 | | B | 755 | 4.93 (S) | 1.04 | 0.824 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C B | 1570 | 5.59 (S) | 1.04 | 1.303 |
| **2,3',6-TriCB** | 27 | | | 394 | 0.500 (Q) | 1.05 | 1.152 |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | B | 4260 | 5.34 (S) | 1.03 | 0.836 |
| **2,4',6-TriCB** | 32 | | B | 1720 | 5.44 (S) | 1.04 | 1.198 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | | 47.2 | 5.74 (S) | 1.04 | 1.274 |
| **3,3',4-TriCB** | 35 | | J | 10.1 | 5.64 (S) | 1.11 | 0.985 |
| **3,3',5-TriCB** | 36 | | U | | 5.37 (S) | | |
| **3,4,4'-TriCB** | 37 | | B | 288 | 6.77 (S) | 1.06 | 1.001 |
| **3,4,5-TriCB** | 38 | | U | | 5.36 (S) | | |
| **3,4',5-TriCB** | 39 | | | 31.3 | 5.03 (S) | 0.95 | 0.946 |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C B | 1460 | 0.623 (S) | 0.79 | 1.336 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | B | 787 | 0.657 (S) | 0.78 | 1.312 |
| **2,2',3,5-TeCB** | 43 | | | 137 | 0.804 (S) | 0.78 | 1.246 |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C B | 2800 | 0.537 (S) | 0.79 | 1.285 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C B | 934 | 0.601 (S) | 0.78 | 1.146 |
| **2,2',3,6'-TeCB** | 46 | | | 325 | 0.688 (S) | 0.77 | 1.161 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | B | 504 | 0.564 (S) | 0.77 | 1.274 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C B | 1970 | 0.526 (S) | 0.79 | 1.259 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C B | 807 | 0.586 (S) | 0.78 | 1.111 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | B | 3660 | 0.571 (S) | 0.79 | 1.235 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | J | 12.5 | 0.500 (Q) | 0.85 | 1.001 |
| **2,3,3',4-TeCB** | 55 | | U | | 5.10 (S) | | |
| **2,3,3',4'-TeCB** | 56 | | B | 539 | 5.12 (S) | 0.78 | 0.904 |
| **2,3,3',5-TeCB** | 57 | | J | 7.54 | 4.39 (S) | 0.70 | 0.844 |
| **2,3,3',5'-TeCB** | 58 | | J | 9.22 | 4.82 (S) | 0.87 | 0.851 |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C | 227 | 0.500 (Q) | 0.79 | 1.302 |
| **2,3,4,4'-TeCB** | 60 | | | 150 | 5.10 (S) | 0.77 | 0.911 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C B | 1890 | 4.73 (S) | 0.78 | 0.875 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | | 44.7 | 4.56 (S) | 0.80 | 0.864 |
| **2,3,4',6-TeCB** | 64 | | B | 1030 | 0.500 (Q) | 0.79 | 1.349 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | B | 1030 | 4.64 (S) | 0.79 | 0.884 |
| **2,3',4,5-TeCB** | 67 | | | 37.3 | 3.94 (S) | 0.77 | 0.856 |
| **2,3',4,5'-TeCB** | 68 | | B J | 16.5 | 4.35 (S) | 0.87 | 0.831 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | | 33.5 | 4.43 (S) | 0.82 | 0.823 |
| **2,3',5',6-TeCB** | 73 | | U | | 0.500 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | | 52.9 | 6.18 (S) | 0.79 | 1.000 |
| **3,3',4,5-TeCB** | 78 | | U | | 5.10 (S) | | |
| **3,3',4,5'-TeCB** | 79 | | J | 12.3 | 4.25 (S) | 0.77 | 0.970 |
| **3,3',5,5'-TeCB** | 80 | | U | | 4.56 (S) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 5.90 (S) | | |
| **2,2',3,3',4-PeCB** | 82 | | | 122 | 1.40 (S) | 1.46 | 0.933 |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C | 604 | 1.31 (S) | 1.58 | 0.885 |
| **2,2',3,3',6-PeCB** | 84 | | | 427 | 1.39 (S) | 1.57 | 1.163 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C | 155 | 1.06 (S) | 1.53 | 0.920 |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C B | 625 | 1.10 (S) | 1.62 | 0.901 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C | 228 | 1.24 (S) | 1.69 | 1.154 |
| **2,2',3,4,6'-PeCB** | 89 | | | 31.0 | 1.30 (S) | 1.62 | 1.182 |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C B | 1040 | 1.09 (S) | 1.62 | 0.869 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | | 250 | 1.24 (S) | 1.57 | 0.853 |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C B | 1460 | 1.18 (S) | 1.59 | 1.120 |
| **2,2',3,5,6'-PeCB** | 94 | | J | 12.9 | 1.30 (S) | 1.59 | 1.102 |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | | 22.5 | 0.500 (Q) | 1.47 | 1.015 |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | | 29.3 | 1.05 (S) | 1.61 | 1.093 |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | | 164 | 2.01 (S) | 1.60 | 1.000 |
| **2,3,3',4,5-PeCB** | 106 | | U | | 1.65 (S) | | |
| **2,3,3',4',5-PeCB** | 107 | | | 39.3 | 1.74 (S) | 1.44 | 0.997 |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C J | 15.4 | 1.87 (S) | 1.33 | 0.991 |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C B | 1060 | 0.936 (S) | 1.64 | 0.925 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 0.918 (S) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 0.873 (S) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | J | 8.53 | 1.99 (S) | 1.47 | 1.000 |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | B | 455 | 2.05 (S) | 1.57 | 1.000 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | J | 3.50 | 0.845 (S) | 1.51 | 0.958 |
| **2,3',4,5',6-PeCB** | 121 | | U | | 0.948 (S) | | |
| **2',3,3',4,5-PeCB** | 122 | | J | 7.13 | 2.00 (S) | 1.69 | 1.009 |
| **2',3,4,4',5-PeCB** | 123 | | J | 10.1 | 2.16 (S) | 1.43 | 1.001 |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | U | | 2.62 (S) | | |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 1.98 (S) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C | 69.9 | 2.98 (S) | 1.21 | 0.959 |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C B | 663 | 2.91 (S) | 1.26 | 0.929 |
| **2,2',3,3',4,5'-HxCB** | 130 | | | 41.1 | 3.62 (S) | 1.28 | 0.913 |
| **2,2',3,3',4,6-HxCB** | 131 | | J | 7.22 | 3.40 (S) | 1.41 | 1.158 |
| **2,2',3,3',4,6'-HxCB** | 132 | | | 325 | 3.55 (S) | 1.24 | 1.173 |
| **2,2',3,3',5,5'-HxCB** | 133 | | J | 13.4 | 3.31 (S) | 1.11 | 1.191 |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C | 43.2 | 3.32 (S) | 1.23 | 1.139 |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C B | 447 | 0.500 (Q) | 1.28 | 1.103 |
| **2,2',3,3',6,6'-HxCB** | 136 | | | 181 | 0.500 (Q) | 1.25 | 1.023 |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 3.49 (S) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C J | 13.8 | 2.95 (S) | 1.17 | 1.153 |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | | 166 | 3.13 (S) | 1.19 | 0.903 |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 3.29 (S) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | | 44.2 | 0.500 (Q) | 1.18 | 1.121 |
| **2,2',3,4,6,6'-HxCB** | 145 | | J | 0.585 | 0.500 (Q) | 1.24 | 1.034 |
| **2,2',3,4',5,5'-HxCB** | 146 | | | 142 | 2.53 (S) | 1.29 | 0.884 |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C B | 855 | 2.86 (S) | 1.25 | 1.132 |
| **2,2',3,4',5,6'-HxCB** | 148 | | K J | 2.54 | 0.500 (Q) | 0.83 | 1.083 |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | K J | 2.52 | 0.500 (Q) | 0.87 | 1.012 |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | K J | 1.32 | 0.500 (Q) | 1.86 | 1.005 |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C B | 726 | 2.61 (S) | 1.23 | 0.899 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 43.1 | 3.46 (S) | 1.32 | 1.000 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | | 51.6 | 2.25 (S) | 1.17 | 0.938 |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 2.41 (S) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 2.19 (S) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 2.39 (S) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | | 57.9 | 2.36 (S) | 1.05 | 0.921 |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 2.66 (S) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | J | 17.6 | 2.67 (S) | 1.17 | 1.001 |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 3.08 (S) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | | 197 | 0.500 (Q) | 1.05 | 1.000 |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C | 64.8 | 0.500 (Q) | 1.03 | 1.163 |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | | 33.0 | 0.500 (Q) | 1.09 | 0.897 |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | | 268 | 0.500 (Q) | 1.12 | 1.134 |
| **2,2',3,3',4,5',6-HpCB** | 175 | | J | 9.22 | 0.500 (Q) | 0.91 | 1.102 |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | | 41.3 | 0.500 (Q) | 1.01 | 1.034 |
| **2,2',3,3',4',5,6-HpCB** | 177 | | | 157 | 0.500 (Q) | 1.04 | 1.145 |
| **2,2',3,3',5,5',6-HpCB** | 178 | | | 57.9 | 0.500 (Q) | 1.07 | 1.085 |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | | 141 | 0.500 (Q) | 1.06 | 1.010 |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C B | 517 | 0.500 (Q) | 1.01 | 1.000 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | K J | 0.921 | 0.500 (Q) | 0.63 | 1.156 |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C | 163 | 0.500 (Q) | 1.08 | 1.127 |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | | 312 | 0.500 (Q) | 1.06 | 1.110 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | J | 6.88 | 0.526 (S) | 1.18 | 1.000 |
| **2,3,3',4,4',5,6-HpCB** | 190 | | | 37.0 | 0.500 (Q) | 1.17 | 0.947 |
| **2,3,3',4,4',5',6-HpCB** | 191 | | J | 8.66 | 0.500 (Q) | 1.06 | 0.918 |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | | 92.7 | 0.500 (Q) | 0.86 | 0.991 |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | | 40.2 | 0.500 (Q) | 1.01 | 0.945 |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | | 48.9 | 0.500 (Q) | 0.93 | 0.915 |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C J | 20.0 | 0.500 (Q) | 0.92 | 1.047 |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C | 104 | 0.500 (Q) | 0.95 | 1.115 |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | J | 12.5 | 0.500 (Q) | 0.96 | 1.023 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 24.2 | 0.500 (Q) | 0.97 | 1.001 |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | | 60.5 | 0.500 (Q) | 0.86 | 0.919 |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | K J | 4.63 | 0.500 (Q) | 1.10 | 1.000 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 25.0 | 0.885 (S) | 0.83 | 1.001 |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | J | 3.21 | 0.629 (S) | 0.87 | 1.020 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | J | 6.29 | 0.688 (S) | 0.80 | 1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | K B J | 4.20 | 0.500 (Q) | 0.86 | 1.000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16681A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-2_Form1A_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 9** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 795 | 39.7 | 3.19 | 0.718 |
| **13C12-4-MoCB** | 3L | | | 2000 | 846 | 42.3 | 3.12 | 0.857 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 898 | 44.9 | 1.56 | 0.873 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 1140 | 57.0 | 1.60 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 967 | 48.3 | 1.03 | 1.071 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 1350 | 67.3 | 1.06 | 1.091 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 1380 | 68.8 | 0.78 | 0.811 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 1200 | 59.9 | 0.77 | 1.396 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 1240 | 62.1 | 0.78 | 1.372 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 1330 | 66.4 | 1.59 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1320 | 66.2 | 1.57 | 1.200 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1290 | 64.7 | 1.65 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 1290 | 64.3 | 1.60 | 1.162 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 1280 | 64.2 | 1.63 | 1.151 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1150 | 57.3 | 1.61 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 1520 | 76.2 | 1.27 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 2410 | 60.2 | 1.26 | 1.108 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 1250 | 62.7 | 1.27 | 1.078 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 1260 | 63.1 | 1.27 | 1.192 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 1450 | 72.5 | 1.02 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 1420 | 70.9 | 1.05 | 0.872 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 1160 | 58.2 | 1.07 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 1400 | 70.0 | 1.04 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 992 | 49.6 | 0.93 | 0.817 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 1290 | 64.5 | 0.86 | 1.009 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 1210 | 60.3 | 0.78 | 1.043 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 1170 | 58.7 | 0.78 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 1200 | 60.0 | 1.17 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1700 | 84.8 | 1.06 | 0.924 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1370 | 68.6 | 1.62 | 1.088 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1500 | 74.9 | 1.05 | 1.012 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-2_Form2_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 9** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 825 |
| **Total Dichloro Biphenyls** | | 9230 |
| **Total Trichloro Biphenyls** | | 30100 |
| **Total Tetrachloro Biphenyls** | | 18500 |
| **Total Pentachloro Biphenyls** | | 6770 |
| **Total Hexachloro Biphenyls** | | 3910 |
| **Total Heptachloro Biphenyls** | | 2010 |
| **Total Octachloro Biphenyls** | | 403 |
| **Total Nonachloro Biphenyls** | | 34.5 |
| **Decachloro Biphenyl** | U | |
| **TOTAL PCBs** | | 71700 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form1668HTII.xsl; Created: 21-Apr-2017 15:39:55; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_HomTotals-TEQsC_L27062-2_Form1AHT_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.998 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_131A S: 7** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_131A S: 1 |
| **Concentration Units:** | pg/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | B J | 4.30 | 0.501 (Q) | 2.86 | 1.001 |
| **3-MoCB** | 2 | | B J | 3.97 | 0.501 (Q) | 2.81 | 0.988 |
| **4-MoCB** | 3 | | B J | 3.54 | 0.501 (Q) | 3.40 | 1.000 |
| **2,2'-DiCB** | 4 | | B J | 3.50 | 1.50 (S) | 1.77 | 1.001 |
| **2,3-DiCB** | 5 | | U | | 1.11 (S) | | |
| **2,3'-DiCB** | 6 | | J | 2.30 | 0.963 (S) | 1.75 | 1.176 |
| **2,4-DiCB** | 7 | | B J | 1.38 | 0.974 (S) | 1.48 | 1.159 |
| **2,4'-DiCB** | 8 | | B J | 6.90 | 0.861 (S) | 1.49 | 1.208 |
| **2,5-DiCB** | 9 | | U | | 0.955 (S) | | |
| **2,6-DiCB** | 10 | | U | | 0.995 (S) | | |
| **3,3'-DiCB** | 11 | | B | 78.9 | 0.981 (S) | 1.61 | 0.969 |
| **3,4-DiCB** | 12 | 12 + 13 | C J | 2.21 | 1.01 (S) | 1.65 | 0.984 |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 0.969 (S) | | |
| **4,4'-DiCB** | 15 | | B J | 4.39 | 1.01 (S) | 1.75 | 1.001 |
| **2,2',3-TriCB** | 16 | | B J | 6.74 | 0.501 (Q) | 0.94 | 1.165 |
| **2,2',4-TriCB** | 17 | | B J | 5.94 | 0.501 (Q) | 1.19 | 1.138 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C B J | 13.4 | 0.501 (Q) | 1.00 | 1.113 |
| **2,2',6-TriCB** | 19 | | K B J | 1.20 | 0.501 (Q) | 1.37 | 1.001 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C B | 21.1 | 0.501 (Q) | 1.05 | 0.848 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C B J | 12.8 | 0.501 (Q) | 1.02 | 0.857 |
| **2,3,4'-TriCB** | 22 | | B J | 8.29 | 0.531 (S) | 1.04 | 0.872 |
| **2,3,5-TriCB** | 23 | | U | | 0.526 (S) | | |
| **2,3,6-TriCB** | 24 | | U | | 0.501 (Q) | | |
| **2,3',4-TriCB** | 25 | | B J | 2.00 | 0.501 (Q) | 0.92 | 0.825 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C B J | 4.27 | 0.501 (Q) | 0.96 | 1.302 |
| **2,3',6-TriCB** | 27 | | K J | 1.10 | 0.501 (Q) | 0.75 | 1.151 |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | B J | 17.3 | 0.501 (Q) | 1.13 | 0.837 |
| **2,4',6-TriCB** | 32 | | K B J | 4.74 | 0.501 (Q) | 1.28 | 1.196 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | U | | 0.518 (S) | | |
| **3,3',4-TriCB** | 35 | | J | 1.77 | 0.501 (Q) | 1.04 | 0.985 |
| **3,3',5-TriCB** | 36 | | U | | 0.501 (Q) | | |
| **3,4,4'-TriCB** | 37 | | B J | 6.81 | 0.558 (S) | 0.90 | 1.001 |
| **3,4,5-TriCB** | 38 | | U | | 0.501 (Q) | | |
| **3,4',5-TriCB** | 39 | | U | | 0.501 (Q) | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C B J | 9.11 | 0.580 (S) | 0.82 | 1.336 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | K B J | 3.68 | 0.612 (S) | 0.92 | 1.311 |
| **2,2',3,5-TeCB** | 43 | | U | | 0.676 (S) | | |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C B J | 19.9 | 0.536 (S) | 0.73 | 1.287 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C B J | 5.77 | 0.606 (S) | 0.85 | 1.147 |
| **2,2',3,6'-TeCB** | 46 | | K J | 1.65 | 0.693 (S) | 1.40 | 1.160 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | B J | 4.20 | 0.591 (S) | 0.70 | 1.273 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C B J | 8.34 | 0.503 (S) | 0.69 | 1.259 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C K B J | 2.15 | 0.589 (S) | 0.56 | 1.111 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | B J | 17.4 | 0.578 (S) | 0.71 | 1.235 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | U | | 0.501 (Q) | | |
| **2,3,3',4-TeCB** | 55 | | U | | 1.03 (S) | | |
| **2,3,3',4'-TeCB** | 56 | | B J | 8.09 | 1.08 (S) | 0.74 | 0.904 |
| **2,3,3',5-TeCB** | 57 | | U | | 0.996 (S) | | |
| **2,3,3',5'-TeCB** | 58 | | U | | 1.03 (S) | | |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C J | 1.59 | 0.501 (Q) | 0.71 | 1.302 |
| **2,3,4,4'-TeCB** | 60 | | J | 4.46 | 1.05 (S) | 0.82 | 0.910 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C B | 21.6 | 1.00 (S) | 0.74 | 0.875 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | U | | 0.969 (S) | | |
| **2,3,4',6-TeCB** | 64 | | B J | 6.55 | 0.501 (Q) | 0.80 | 1.349 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | B J | 13.5 | 1.02 (S) | 0.67 | 0.884 |
| **2,3',4,5-TeCB** | 67 | | U | | 0.879 (S) | | |
| **2,3',4,5'-TeCB** | 68 | | K B J | 1.39 | 0.956 (S) | 0.61 | 0.831 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | U | | 0.957 (S) | | |
| **2,3',5',6-TeCB** | 73 | | U | | 0.501 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | J | 1.98 | 1.11 (S) | 0.70 | 1.000 |
| **3,3',4,5-TeCB** | 78 | | U | | 0.964 (S) | | |
| **3,3',4,5'-TeCB** | 79 | | U | | 0.855 (S) | | |
| **3,3',5,5'-TeCB** | 80 | | U | | 0.932 (S) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 1.11 (S) | | |
| **2,2',3,3',4-PeCB** | 82 | | U | | 0.769 (S) | | |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C K J | 3.56 | 0.739 (S) | 1.83 | 0.886 |
| **2,2',3,3',6-PeCB** | 84 | | K J | 2.83 | 0.801 (S) | 0.80 | 1.163 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C K J | 2.23 | 0.586 (S) | 1.96 | 0.919 |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C B J | 7.53 | 0.612 (S) | 1.57 | 0.901 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C K J | 1.06 | 0.719 (S) | 2.46 | 1.154 |
| **2,2',3,4,6'-PeCB** | 89 | | U | | 0.735 (S) | | |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C B J | 8.60 | 0.616 (S) | 1.65 | 0.870 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | K J | 1.61 | 0.699 (S) | 0.67 | 0.853 |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C K B J | 5.37 | 0.699 (S) | 2.37 | 1.120 |
| **2,2',3,5,6'-PeCB** | 94 | | U | | 0.781 (S) | | |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | U | | 0.501 (Q) | | |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | U | | 0.635 (S) | | |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.501 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | J | 3.56 | 1.42 (S) | 1.63 | 1.001 |
| **2,3,3',4,5-PeCB** | 106 | | U | | 1.40 (S) | | |
| **2,3,3',4',5-PeCB** | 107 | | U | | 1.59 (S) | | |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C U | | 1.61 (S) | | |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C B J | 7.57 | 0.513 (S) | 1.39 | 0.924 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 0.520 (S) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 0.501 (Q) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | U | | 1.57 (S) | | |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | B J | 7.83 | 1.62 (S) | 1.59 | 1.000 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | U | | 0.501 (Q) | | |
| **2,3',4,5',6-PeCB** | 121 | | U | | 0.550 (S) | | |
| **2',3,3',4,5-PeCB** | 122 | | U | | 1.70 (S) | | |
| **2',3,4,4',5-PeCB** | 123 | | U | | 1.70 (S) | | |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | U | | 1.62 (S) | | |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 2.05 (S) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C U | | 1.01 (S) | | |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C B J | 10.7 | 1.00 (S) | 1.29 | 0.928 |
| **2,2',3,3',4,5'-HxCB** | 130 | | U | | 1.25 (S) | | |
| **2,2',3,3',4,6-HxCB** | 131 | | U | | 1.16 (S) | | |
| **2,2',3,3',4,6'-HxCB** | 132 | | J | 1.59 | 1.20 (S) | 1.11 | 1.174 |
| **2,2',3,3',5,5'-HxCB** | 133 | | U | | 1.12 (S) | | |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C U | | 0.963 (S) | | |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C K B J | 3.15 | 0.501 (Q) | 0.84 | 1.103 |
| **2,2',3,3',6,6'-HxCB** | 136 | | J | 0.538 | 0.501 (Q) | 1.20 | 1.023 |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 1.34 (S) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C U | | 0.946 (S) | | |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | J | 1.93 | 1.04 (S) | 1.12 | 0.903 |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 1.11 (S) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | U | | 0.501 (Q) | | |
| **2,2',3,4,6,6'-HxCB** | 145 | | U | | 0.501 (Q) | | |
| **2,2',3,4',5,5'-HxCB** | 146 | | J | 3.15 | 0.961 (S) | 1.26 | 0.884 |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C K B J | 4.06 | 0.814 (S) | 1.71 | 1.134 |
| **2,2',3,4',5,6'-HxCB** | 148 | | U | | 0.501 (Q) | | |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | U | | 0.501 (Q) | | |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | U | | 0.501 (Q) | | |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C B J | 9.45 | 0.911 (S) | 1.12 | 0.898 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.501 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C J | 1.42 | 0.914 (S) | 1.14 | 0.999 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | U | | 0.790 (S) | | |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 0.914 (S) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 0.788 (S) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 0.883 (S) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | U | | 0.770 (S) | | |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 0.917 (S) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | U | | 0.799 (S) | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 0.846 (S) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | J | 3.23 | 0.616 (S) | 1.16 | 1.000 |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C K J | 0.732 | 0.669 (S) | 0.59 | 1.163 |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | K J | 0.822 | 0.700 (S) | 0.56 | 0.897 |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | K J | 3.10 | 0.583 (S) | 0.69 | 1.133 |
| **2,2',3,3',4,5',6-HpCB** | 175 | | U | | 0.593 (S) | | |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | U | | 0.501 (Q) | | |
| **2,2',3,3',4',5,6-HpCB** | 177 | | J | 1.77 | 0.532 (S) | 1.14 | 1.145 |
| **2,2',3,3',5,5',6-HpCB** | 178 | | K J | 0.897 | 0.623 (S) | 0.56 | 1.084 |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | K J | 0.859 | 0.501 (Q) | 2.20 | 1.009 |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C B J | 11.3 | 0.596 (S) | 1.08 | 1.000 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | U | | 0.659 (S) | | |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.569 (S) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C J | 3.46 | 0.623 (S) | 1.07 | 1.127 |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.501 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.501 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | K J | 3.64 | 0.564 (S) | 0.82 | 1.110 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.501 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | U | | 0.913 (S) | | |
| **2,3,3',4,4',5,6-HpCB** | 190 | | U | | 0.566 (S) | | |
| **2,3,3',4,4',5',6-HpCB** | 191 | | U | | 0.535 (S) | | |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.583 (S) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | J | 2.03 | 0.960 (S) | 0.82 | 0.991 |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | U | | 1.04 (S) | | |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | K J | 1.40 | 0.687 (S) | 1.51 | 0.916 |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C U | | 0.501 (Q) | | |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C K J | 1.66 | 0.712 (S) | 1.11 | 1.115 |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | U | | 0.501 (Q) | | |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | U | | 0.550 (S) | | |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | J | 0.783 | 0.658 (S) | 0.95 | 0.919 |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.501 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | U | | 0.722 (S) | | |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | K J | 1.10 | 1.04 (S) | 1.11 | 1.001 |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | U | | 0.787 (S) | | |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | U | | 0.942 (S) | | |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | U | | 0.598 (S) | | |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16681A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-3_Form1A_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.998 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_131A S: 7** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_131A S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 685 | 34.2 | 3.08 | 0.718 |
| **13C12-4-MoCB** | 3L | | | 2000 | 700 | 35.0 | 3.04 | 0.858 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 699 | 35.0 | 1.62 | 0.873 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 894 | 44.7 | 1.57 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 956 | 47.8 | 1.01 | 1.072 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 794 | 39.7 | 1.05 | 1.091 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 888 | 44.4 | 0.80 | 0.810 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 888 | 44.4 | 0.76 | 1.396 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 868 | 43.4 | 0.79 | 1.373 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 714 | 35.7 | 1.54 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1150 | 57.6 | 1.57 | 1.200 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1030 | 51.4 | 1.57 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 991 | 49.5 | 1.57 | 1.162 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 974 | 48.7 | 1.60 | 1.151 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1170 | 58.3 | 1.57 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 636 | 31.8 | 1.26 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 1780 | 44.6 | 1.26 | 1.107 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 862 | 43.1 | 1.26 | 1.078 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 935 | 46.7 | 1.27 | 1.191 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 943 | 47.1 | 1.03 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 885 | 44.3 | 1.04 | 0.873 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 660 | 33.0 | 1.03 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 889 | 44.4 | 1.07 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 726 | 36.3 | 0.92 | 0.818 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 891 | 44.5 | 0.89 | 1.010 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 939 | 47.0 | 0.77 | 1.044 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 811 | 40.6 | 0.80 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 862 | 43.1 | 1.17 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1150 | 57.7 | 1.04 | 0.924 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1500 | 74.8 | 1.61 | 1.088 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1670 | 83.7 | 1.02 | 1.011 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_L27062-3_Form2_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Matrix:** | AQUEOUS | **Sample Size:** | 0.998 L |
| **Sample Receipt Date:** | 31-Mar-2017 | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_131A S: 7** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_131A S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 11.8 |
| **Total Dichloro Biphenyls** | | 99.6 |
| **Total Trichloro Biphenyls** | | 100 |
| **Total Tetrachloro Biphenyls** | | 122 |
| **Total Pentachloro Biphenyls** | | 35.1 |
| **Total Hexachloro Biphenyls** | | 28.8 |
| **Total Heptachloro Biphenyls** | | 19.8 |
| **Total Octachloro Biphenyls** | | 2.81 |
| **Total Nonachloro Biphenyls** | U | |
| **Decachloro Biphenyl** | U | |
| **TOTAL PCBs** | | 421 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: 1668_PCB1668_HomTotals-TEQsC_L27062-3_Form1AHT_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 4** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | J | 3.00 | 0.500 (Q) | 3.37 | 1.001 |
| **3-MoCB** | 2 | | K J | 1.61 | 0.500 (Q) | 4.12 | 0.988 |
| **4-MoCB** | 3 | | K J | 3.04 | 0.500 (Q) | 4.06 | 1.000 |
| **2,2'-DiCB** | 4 | | J | 2.56 | 1.05 (S) | 1.69 | 1.001 |
| **2,3-DiCB** | 5 | | U | | 0.702 (S) | | |
| **2,3'-DiCB** | 6 | | U | | 0.641 (S) | | |
| **2,4-DiCB** | 7 | | J | 13.4 | 0.657 (S) | 1.41 | 1.159 |
| **2,4'-DiCB** | 8 | | J | 4.14 | 0.607 (S) | 1.60 | 1.209 |
| **2,5-DiCB** | 9 | | U | | 0.644 (S) | | |
| **2,6-DiCB** | 10 | | U | | 0.675 (S) | | |
| **3,3'-DiCB** | 11 | | | 49.1 | 0.650 (S) | 1.63 | 0.969 |
| **3,4-DiCB** | 12 | 12 + 13 | C U | | 0.662 (S) | | |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 0.648 (S) | | |
| **4,4'-DiCB** | 15 | | J | 3.59 | 0.751 (S) | 1.63 | 1.001 |
| **2,2',3-TriCB** | 16 | | K J | 2.09 | 0.500 (Q) | 0.70 | 1.164 |
| **2,2',4-TriCB** | 17 | | J | 2.01 | 0.500 (Q) | 0.93 | 1.138 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C J | 4.17 | 0.500 (Q) | 0.92 | 1.113 |
| **2,2',6-TriCB** | 19 | | K J | 0.786 | 0.500 (Q) | 1.32 | 1.001 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C J | 5.55 | 0.500 (Q) | 1.07 | 0.848 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C J | 3.16 | 0.500 (Q) | 1.02 | 0.857 |
| **2,3,4'-TriCB** | 22 | | K J | 2.03 | 0.500 (Q) | 0.85 | 0.871 |
| **2,3,5-TriCB** | 23 | | U | | 0.500 (Q) | | |
| **2,3,6-TriCB** | 24 | | U | | 0.500 (Q) | | |
| **2,3',4-TriCB** | 25 | | J | 0.564 | 0.500 (Q) | 1.06 | 0.825 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C J | 0.879 | 0.500 (Q) | 0.89 | 1.301 |
| **2,3',6-TriCB** | 27 | | U | | 0.500 (Q) | | |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | J | 4.44 | 0.500 (Q) | 1.17 | 0.837 |
| **2,4',6-TriCB** | 32 | | J | 1.15 | 0.500 (Q) | 0.97 | 1.196 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | U | | 0.500 (Q) | | |
| **3,3',4-TriCB** | 35 | | U | | 0.500 (Q) | | |
| **3,3',5-TriCB** | 36 | | U | | 0.500 (Q) | | |
| **3,4,4'-TriCB** | 37 | | J | 1.04 | 0.500 (Q) | 1.11 | 1.001 |
| **3,4,5-TriCB** | 38 | | U | | 0.500 (Q) | | |
| **3,4',5-TriCB** | 39 | | U | | 0.500 (Q) | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C J | 1.62 | 0.500 (Q) | 0.80 | 1.336 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | K J | 0.738 | 0.500 (Q) | 0.94 | 1.312 |
| **2,2',3,5-TeCB** | 43 | | U | | 0.500 (Q) | | |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C J | 14.2 | 0.500 (Q) | 0.89 | 1.287 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C J | 3.94 | 0.500 (Q) | 0.75 | 1.149 |
| **2,2',3,6'-TeCB** | 46 | | U | | 0.500 (Q) | | |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | J | 0.841 | 0.500 (Q) | 0.76 | 1.274 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C K J | 1.89 | 0.500 (Q) | 0.98 | 1.260 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C K J | 0.730 | 0.500 (Q) | 0.63 | 1.111 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | J | 4.78 | 0.500 (Q) | 0.65 | 1.235 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | U | | 0.500 (Q) | | |
| **2,3,3',4-TeCB** | 55 | | U | | 0.500 (Q) | | |
| **2,3,3',4'-TeCB** | 56 | | K J | 0.764 | 0.500 (Q) | 1.14 | 0.905 |
| **2,3,3',5-TeCB** | 57 | | U | | 0.500 (Q) | | |
| **2,3,3',5'-TeCB** | 58 | | U | | 0.500 (Q) | | |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C U | | 0.500 (Q) | | |
| **2,3,4,4'-TeCB** | 60 | | U | | 0.500 (Q) | | |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C J | 2.92 | 0.500 (Q) | 0.67 | 0.875 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | U | | 0.500 (Q) | | |
| **2,3,4',6-TeCB** | 64 | | K J | 1.51 | 0.500 (Q) | 0.60 | 1.349 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | J | 1.28 | 0.500 (Q) | 0.85 | 0.885 |
| **2,3',4,5-TeCB** | 67 | | U | | 0.500 (Q) | | |
| **2,3',4,5'-TeCB** | 68 | | J | 1.90 | 0.500 (Q) | 0.75 | 0.832 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | U | | 0.500 (Q) | | |
| **2,3',5',6-TeCB** | 73 | | U | | 0.500 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | U | | 0.500 (Q) | | |
| **3,3',4,5-TeCB** | 78 | | U | | 0.500 (Q) | | |
| **3,3',4,5'-TeCB** | 79 | | U | | 0.500 (Q) | | |
| **3,3',5,5'-TeCB** | 80 | | U | | 0.500 (Q) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4-PeCB** | 82 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C U | | 0.500 (Q) | | |
| **2,2',3,3',6-PeCB** | 84 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C U | | 0.500 (Q) | | |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C J | 2.64 | 0.500 (Q) | 1.69 | 0.901 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C U | | 0.500 (Q) | | |
| **2,2',3,4,6'-PeCB** | 89 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C J | 2.66 | 0.500 (Q) | 1.51 | 0.869 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | U | | 0.500 (Q) | | |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C J | 1.98 | 0.500 (Q) | 1.59 | 1.120 |
| **2,2',3,5,6'-PeCB** | 94 | | U | | 0.500 (Q) | | |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | U | | 0.500 (Q) | | |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | U | | 0.500 (Q) | | |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5-PeCB** | 106 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5-PeCB** | 107 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C U | | 0.500 (Q) | | |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C K J | 2.33 | 0.500 (Q) | 1.16 | 0.925 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 0.500 (Q) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 0.500 (Q) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | U | | 0.500 (Q) | | |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | J | 1.31 | 0.500 (Q) | 1.71 | 1.000 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | U | | 0.500 (Q) | | |
| **2,3',4,5',6-PeCB** | 121 | | U | | 0.500 (Q) | | |
| **2',3,3',4,5-PeCB** | 122 | | U | | 0.500 (Q) | | |
| **2',3,4,4',5-PeCB** | 123 | | U | | 0.500 (Q) | | |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | U | | 0.500 (Q) | | |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C K J | 1.02 | 0.500 (Q) | 2.34 | 0.929 |
| **2,2',3,3',4,5'-HxCB** | 130 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6-HxCB** | 131 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6'-HxCB** | 132 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5'-HxCB** | 133 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C U | | 0.500 (Q) | | |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C K J | 0.814 | 0.500 (Q) | 1.01 | 1.103 |
| **2,2',3,3',6,6'-HxCB** | 136 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | U | | 0.500 (Q) | | |
| **2,2',3,4,6,6'-HxCB** | 145 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5'-HxCB** | 146 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C K J | 0.932 | 0.500 (Q) | 1.78 | 1.133 |
| **2,2',3,4',5,6'-HxCB** | 148 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | U | | 0.500 (Q) | | |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | U | | 0.500 (Q) | | |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C K J | 1.14 | 0.500 (Q) | 0.87 | 0.899 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C U | | 0.500 (Q) | | |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | U | | 0.500 (Q) | | |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 0.500 (Q) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | U | | 0.500 (Q) | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5',6-HpCB** | 175 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4',5,6-HpCB** | 177 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6-HpCB** | 178 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C J | 0.874 | 0.500 (Q) | 1.08 | 1.000 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,6-HpCB** | 190 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5',6-HpCB** | 191 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | U | | 0.503 (S) | | |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | K J | 1.11 | 0.500 (Q) | 1.59 | 1.000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16681A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-101_Form1A_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 4** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 780 | 39.0 | 3.20 | 0.719 |
| **13C12-4-MoCB** | 3L | | | 2000 | 817 | 40.9 | 3.19 | 0.858 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 875 | 43.7 | 1.60 | 0.873 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 1100 | 54.8 | 1.60 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 910 | 45.5 | 1.05 | 1.072 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 1340 | 66.9 | 1.05 | 1.092 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 1150 | 57.7 | 0.79 | 0.811 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 1240 | 62.1 | 0.78 | 1.397 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 1300 | 65.0 | 0.78 | 1.373 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 1230 | 61.6 | 1.60 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1520 | 76.2 | 1.59 | 1.200 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1440 | 72.0 | 1.60 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 1440 | 71.9 | 1.58 | 1.162 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 1430 | 71.5 | 1.60 | 1.151 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1400 | 70.2 | 1.58 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 1330 | 66.6 | 1.26 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 2790 | 69.8 | 1.25 | 1.107 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 1450 | 72.4 | 1.28 | 1.077 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 1460 | 72.9 | 1.24 | 1.191 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 1660 | 82.9 | 1.04 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 1660 | 82.8 | 1.07 | 0.873 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 1140 | 56.8 | 1.04 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 1480 | 74.1 | 1.06 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 1020 | 50.8 | 0.90 | 0.818 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 1460 | 73.1 | 0.92 | 1.009 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 1360 | 68.2 | 0.78 | 1.043 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 1250 | 62.3 | 0.79 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 1320 | 66.2 | 1.18 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1510 | 75.3 | 1.06 | 0.925 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1380 | 69.2 | 1.59 | 1.087 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1530 | 76.4 | 1.04 | 1.011 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-101_Form2_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 4** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 3.00 |
| **Total Dichloro Biphenyls** | | 72.8 |
| **Total Trichloro Biphenyls** | | 23.0 |
| **Total Tetrachloro Biphenyls** | | 31.5 |
| **Total Pentachloro Biphenyls** | | 8.59 |
| **Total Hexachloro Biphenyls** | U | |
| **Total Heptachloro Biphenyls** | | 0.874 |
| **Total Octachloro Biphenyls** | U | |
| **Total Nonachloro Biphenyls** | U | |
| **Decachloro Biphenyl** | U | |
| **TOTAL PCBs** | | 140 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

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Report Filename: 1668_PCB1668_HomTotals-TEQsC_WG58451-101_Form1AHT_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 5** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | B J | 5.33 | 0.500 (Q) | 3.35 | 1.000 |
| **3-MoCB** | 2 | | B J | 1.92 | 0.500 (Q) | 3.26 | 0.988 |
| **4-MoCB** | 3 | | K B J | 3.94 | 0.500 (Q) | 4.37 | 1.000 |
| **2,2'-DiCB** | 4 | | B J | 3.27 | 1.30 (S) | 1.54 | 1.001 |
| **2,3-DiCB** | 5 | | U | | 0.866 (S) | | |
| **2,3'-DiCB** | 6 | | J | 1.07 | 0.791 (S) | 1.57 | 1.175 |
| **2,4-DiCB** | 7 | | U | | 0.810 (S) | | |
| **2,4'-DiCB** | 8 | | B J | 4.85 | 0.749 (S) | 1.49 | 1.208 |
| **2,5-DiCB** | 9 | | U | | 0.795 (S) | | |
| **2,6-DiCB** | 10 | | U | | 0.832 (S) | | |
| **3,3'-DiCB** | 11 | | B | 50.8 | 0.801 (S) | 1.55 | 0.969 |
| **3,4-DiCB** | 12 | 12 + 13 | C U | | 0.817 (S) | | |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 0.799 (S) | | |
| **4,4'-DiCB** | 15 | | B J | 3.56 | 0.928 (S) | 1.60 | 1.000 |
| **2,2',3-TriCB** | 16 | | B J | 2.25 | 0.500 (Q) | 1.13 | 1.166 |
| **2,2',4-TriCB** | 17 | | K B J | 2.55 | 0.500 (Q) | 0.69 | 1.139 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C K B J | 4.93 | 0.500 (Q) | 1.54 | 1.114 |
| **2,2',6-TriCB** | 19 | | B J | 0.979 | 0.500 (Q) | 0.92 | 1.002 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C B J | 5.89 | 0.500 (Q) | 1.03 | 0.848 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C B J | 3.32 | 0.500 (Q) | 1.02 | 0.857 |
| **2,3,4'-TriCB** | 22 | | B J | 2.11 | 0.500 (Q) | 1.12 | 0.872 |
| **2,3,5-TriCB** | 23 | | U | | 0.500 (Q) | | |
| **2,3,6-TriCB** | 24 | | U | | 0.500 (Q) | | |
| **2,3',4-TriCB** | 25 | | U | | 0.500 (Q) | | |
| **2,3',5-TriCB** | 26 | 26 + 29 | C B J | 1.04 | 0.500 (Q) | 1.08 | 1.304 |
| **2,3',6-TriCB** | 27 | | U | | 0.500 (Q) | | |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | B J | 4.99 | 0.500 (Q) | 1.13 | 0.837 |
| **2,4',6-TriCB** | 32 | | K B J | 1.82 | 0.500 (Q) | 1.52 | 1.197 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | U | | 0.500 (Q) | | |
| **3,3',4-TriCB** | 35 | | U | | 0.500 (Q) | | |
| **3,3',5-TriCB** | 36 | | U | | 0.500 (Q) | | |
| **3,4,4'-TriCB** | 37 | | B J | 1.06 | 0.500 (Q) | 1.06 | 1.000 |
| **3,4,5-TriCB** | 38 | | U | | 0.500 (Q) | | |
| **3,4',5-TriCB** | 39 | | U | | 0.500 (Q) | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C B J | 1.76 | 0.500 (Q) | 0.66 | 1.336 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | K B J | 0.762 | 0.500 (Q) | 1.55 | 1.313 |
| **2,2',3,5-TeCB** | 43 | | U | | 0.512 (S) | | |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C B J | 14.0 | 0.500 (Q) | 0.68 | 1.287 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C B J | 4.33 | 0.500 (Q) | 0.77 | 1.149 |
| **2,2',3,6'-TeCB** | 46 | | U | | 0.500 (Q) | | |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | K B J | 0.747 | 0.500 (Q) | 0.56 | 1.273 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C B J | 1.87 | 0.500 (Q) | 0.70 | 1.260 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C K B J | 0.750 | 0.500 (Q) | 1.02 | 1.110 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | B J | 5.92 | 0.500 (Q) | 0.70 | 1.234 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | U | | 0.500 (Q) | | |
| **2,3,3',4-TeCB** | 55 | | U | | 0.500 (Q) | | |
| **2,3,3',4'-TeCB** | 56 | | K B J | 0.704 | 0.500 (Q) | 0.54 | 0.905 |
| **2,3,3',5-TeCB** | 57 | | U | | 0.500 (Q) | | |
| **2,3,3',5'-TeCB** | 58 | | U | | 0.500 (Q) | | |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C U | | 0.500 (Q) | | |
| **2,3,4,4'-TeCB** | 60 | | U | | 0.500 (Q) | | |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C K B J | 2.65 | 0.500 (Q) | 0.60 | 0.875 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | U | | 0.500 (Q) | | |
| **2,3,4',6-TeCB** | 64 | | K B J | 1.27 | 0.500 (Q) | 1.01 | 1.349 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | K B J | 1.30 | 0.500 (Q) | 1.00 | 0.884 |
| **2,3',4,5-TeCB** | 67 | | U | | 0.500 (Q) | | |
| **2,3',4,5'-TeCB** | 68 | | K B J | 1.69 | 0.500 (Q) | 0.95 | 0.831 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | U | | 0.500 (Q) | | |
| **2,3',5',6-TeCB** | 73 | | U | | 0.500 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | U | | 0.500 (Q) | | |
| **3,3',4,5-TeCB** | 78 | | U | | 0.500 (Q) | | |
| **3,3',4,5'-TeCB** | 79 | | U | | 0.500 (Q) | | |
| **3,3',5,5'-TeCB** | 80 | | U | | 0.500 (Q) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4-PeCB** | 82 | | U | | 0.515 (S) | | |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C K J | 1.41 | 0.500 (Q) | 2.06 | 0.886 |
| **2,2',3,3',6-PeCB** | 84 | | J | 0.945 | 0.511 (S) | 1.59 | 1.163 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C U | | 0.500 (Q) | | |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C K B J | 2.57 | 0.500 (Q) | 2.15 | 0.901 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C K J | 0.736 | 0.500 (Q) | 1.21 | 1.154 |
| **2,2',3,4,6'-PeCB** | 89 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C K B J | 2.33 | 0.500 (Q) | 2.42 | 0.870 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | U | | 0.500 (Q) | | |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C B J | 2.88 | 0.500 (Q) | 1.65 | 1.119 |
| **2,2',3,5,6'-PeCB** | 94 | | U | | 0.500 (Q) | | |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | U | | 0.500 (Q) | | |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

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| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | U | | 0.500 (Q) | | |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | J | 0.945 | 0.598 (S) | 1.40 | 1.000 |
| **2,3,3',4,5-PeCB** | 106 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5-PeCB** | 107 | | U | | 0.503 (S) | | |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C U | | 0.541 (S) | | |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C K B J | 2.85 | 0.500 (Q) | 0.89 | 0.924 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 0.500 (Q) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 0.500 (Q) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | K J | 2.32 | 0.500 (Q) | 0.31 | 1.000 |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | K B J | 1.99 | 0.626 (S) | 1.11 | 1.000 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | U | | 0.500 (Q) | | |
| **2,3',4,5',6-PeCB** | 121 | | U | | 0.500 (Q) | | |
| **2',3,3',4,5-PeCB** | 122 | | U | | 0.579 (S) | | |
| **2',3,4,4',5-PeCB** | 123 | | U | | 0.636 (S) | | |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | K J | 2.65 | 0.599 (S) | 0.27 | 1.000 |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 0.574 (S) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C K B J | 2.93 | 0.500 (Q) | 0.96 | 0.929 |
| **2,2',3,3',4,5'-HxCB** | 130 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6-HxCB** | 131 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6'-HxCB** | 132 | | K J | 0.599 | 0.500 (Q) | 1.93 | 1.174 |
| **2,2',3,3',5,5'-HxCB** | 133 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C U | | 0.500 (Q) | | |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C B J | 0.801 | 0.500 (Q) | 1.17 | 1.103 |
| **2,2',3,3',6,6'-HxCB** | 136 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | U | | 0.500 (Q) | | |
| **2,2',3,4,6,6'-HxCB** | 145 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5'-HxCB** | 146 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C K B J | 1.48 | 0.500 (Q) | 0.65 | 1.133 |
| **2,2',3,4',5,6'-HxCB** | 148 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | U | | 0.500 (Q) | | |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | U | | 0.500 (Q) | | |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C K B J | 1.56 | 0.500 (Q) | 1.59 | 0.899 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C U | | 0.500 (Q) | | |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

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|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | U | | 0.500 (Q) | | |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 0.500 (Q) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | U | | 0.500 (Q) | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | U | | 0.512 (S) | | |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5',6-HpCB** | 175 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4',5,6-HpCB** | 177 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6-HpCB** | 178 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6-HpCB** | 181 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | U | | 0.528 (S) | | |
| **2,3,3',4,4',5,6-HpCB** | 190 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5',6-HpCB** | 191 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | U | | 0.765 (S) | | |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | U | | 0.715 (S) | | |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C K J | 2.93 | 0.500 (Q) | 0.10 | 1.046 |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | U | | 0.695 (S) | | |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | U | | 0.870 (S) | | |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | U | | 0.634 (S) | | |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | U | | 0.712 (S) | | |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | K B J | 0.716 | 0.500 (Q) | 2.26 | 1.000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16681A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-103_Form1A_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 5** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 730 | 36.5 | 3.24 | 0.719 |
| **13C12-4-MoCB** | 3L | | | 2000 | 771 | 38.6 | 3.13 | 0.858 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 813 | 40.7 | 1.61 | 0.873 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 1040 | 51.8 | 1.59 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 893 | 44.6 | 1.05 | 1.071 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 1190 | 59.4 | 1.07 | 1.091 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 1170 | 58.6 | 0.81 | 0.811 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 1050 | 52.6 | 0.79 | 1.396 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 1110 | 55.6 | 0.78 | 1.372 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 1390 | 69.5 | 1.59 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1430 | 71.7 | 1.56 | 1.200 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1700 | 85.1 | 1.60 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 1350 | 67.5 | 1.59 | 1.162 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 1360 | 68.0 | 1.61 | 1.151 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1560 | 78.2 | 1.58 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 1610 | 80.4 | 1.26 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 2690 | 67.3 | 1.27 | 1.107 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 1420 | 70.9 | 1.28 | 1.078 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 1230 | 61.4 | 1.27 | 1.191 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 1780 | 89.2 | 1.07 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 1810 | 90.6 | 1.05 | 0.872 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 1740 | 86.8 | 1.04 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 1650 | 82.3 | 1.09 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 1160 | 57.9 | 0.94 | 0.818 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 1530 | 76.3 | 0.90 | 1.009 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 1480 | 73.9 | 0.80 | 1.043 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 1440 | 71.8 | 0.79 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 1410 | 70.7 | 1.20 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1480 | 73.9 | 1.07 | 0.924 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1470 | 73.5 | 1.57 | 1.087 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1630 | 81.6 | 1.01 | 1.011 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-103_Form2_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 5** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 7.25 |
| **Total Dichloro Biphenyls** | | 63.6 |
| **Total Trichloro Biphenyls** | | 21.6 |
| **Total Tetrachloro Biphenyls** | | 27.9 |
| **Total Pentachloro Biphenyls** | | 4.77 |
| **Total Hexachloro Biphenyls** | | 0.801 |
| **Total Heptachloro Biphenyls** | U | |
| **Total Octachloro Biphenyls** | U | |
| **Total Nonachloro Biphenyls** | U | |
| **Decachloro Biphenyl** | U | |
| **TOTAL PCBs** | | 126 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form1668HTII.xsl; Created: 21-Apr-2017 15:39:55; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_HomTotals-TEQsC_WG58451-103_Form1AHT_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 6** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | B J | 3.18 | 0.500 (Q) | 2.80 | 1.001 |
| **3-MoCB** | 2 | | B J | 1.78 | 0.500 (Q) | 2.72 | 0.987 |
| **4-MoCB** | 3 | | B J | 3.20 | 0.500 (Q) | 3.53 | 1.000 |
| **2,2'-DiCB** | 4 | | B J | 2.66 | 0.746 (S) | 1.71 | 1.000 |
| **2,3-DiCB** | 5 | | U | | 0.514 (S) | | |
| **2,3'-DiCB** | 6 | | J | 1.10 | 0.500 (Q) | 1.34 | 1.175 |
| **2,4-DiCB** | 7 | | B J | 3.97 | 0.500 (Q) | 1.77 | 1.159 |
| **2,4'-DiCB** | 8 | | B J | 5.17 | 0.500 (Q) | 1.75 | 1.208 |
| **2,5-DiCB** | 9 | | U | | 0.500 (Q) | | |
| **2,6-DiCB** | 10 | | U | | 0.500 (Q) | | |
| **3,3'-DiCB** | 11 | | B | 66.8 | 0.500 (Q) | 1.54 | 0.969 |
| **3,4-DiCB** | 12 | 12 + 13 | C U | | 0.500 (Q) | | |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | |
| **3,5-DiCB** | 14 | | U | | 0.500 (Q) | | |
| **4,4'-DiCB** | 15 | | B J | 4.03 | 0.554 (S) | 1.56 | 1.000 |
| **2,2',3-TriCB** | 16 | | B J | 1.94 | 0.500 (Q) | 1.18 | 1.165 |
| **2,2',4-TriCB** | 17 | | B J | 2.54 | 0.500 (Q) | 0.94 | 1.139 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C B J | 5.32 | 0.500 (Q) | 1.16 | 1.114 |
| **2,2',6-TriCB** | 19 | | K B J | 0.571 | 0.500 (Q) | 0.64 | 1.001 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C B J | 6.60 | 0.500 (Q) | 1.15 | 0.849 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C B J | 3.91 | 0.500 (Q) | 1.04 | 0.857 |
| **2,3,4'-TriCB** | 22 | | B J | 2.40 | 0.500 (Q) | 0.97 | 0.872 |
| **2,3,5-TriCB** | 23 | | U | | 0.500 (Q) | | |
| **2,3,6-TriCB** | 24 | | U | | 0.500 (Q) | | |
| **2,3',4-TriCB** | 25 | | K B J | 0.518 | 0.500 (Q) | 1.28 | 0.825 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C B J | 0.947 | 0.500 (Q) | 1.11 | 1.302 |
| **2,3',6-TriCB** | 27 | | U | | 0.500 (Q) | | |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | |
| **2,4',5-TriCB** | 31 | | B J | 5.65 | 0.500 (Q) | 1.11 | 0.837 |
| **2,4',6-TriCB** | 32 | | B J | 1.59 | 0.500 (Q) | 1.06 | 1.198 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | |
| **2',3,5-TriCB** | 34 | | U | | 0.500 (Q) | | |
| **3,3',4-TriCB** | 35 | | J | 0.633 | 0.500 (Q) | 1.01 | 0.985 |
| **3,3',5-TriCB** | 36 | | U | | 0.500 (Q) | | |
| **3,4,4'-TriCB** | 37 | | B J | 1.27 | 0.500 (Q) | 0.93 | 1.001 |
| **3,4,5-TriCB** | 38 | | U | | 0.500 (Q) | | |
| **3,4',5-TriCB** | 39 | | U | | 0.500 (Q) | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C B J | 1.74 | 0.500 (Q) | 0.73 | 1.336 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | |
| **2,2',3,4'-TeCB** | 42 | | K B J | 0.866 | 0.500 (Q) | 1.00 | 1.313 |
| **2,2',3,5-TeCB** | 43 | | U | | 0.500 (Q) | | |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C B J | 9.90 | 0.500 (Q) | 0.72 | 1.286 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C K B J | 2.96 | 0.500 (Q) | 0.92 | 1.148 |
| **2,2',3,6'-TeCB** | 46 | | K J | 0.511 | 0.500 (Q) | 1.61 | 1.160 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | |
| **2,2',4,5-TeCB** | 48 | | K B J | 1.00 | 0.500 (Q) | 1.15 | 1.273 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C B J | 2.04 | 0.500 (Q) | 0.88 | 1.260 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C B J | 0.654 | 0.500 (Q) | 0.71 | 1.112 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | |
| **2,2',5,5'-TeCB** | 52 | | B J | 4.89 | 0.500 (Q) | 0.81 | 1.234 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | |
| **2,2',6,6'-TeCB** | 54 | | U | | 0.500 (Q) | | |
| **2,3,3',4-TeCB** | 55 | | U | | 0.500 (Q) | | |
| **2,3,3',4'-TeCB** | 56 | | B J | 0.694 | 0.500 (Q) | 0.71 | 0.905 |
| **2,3,3',5-TeCB** | 57 | | U | | 0.500 (Q) | | |
| **2,3,3',5'-TeCB** | 58 | | U | | 0.500 (Q) | | |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C U | | 0.500 (Q) | | |
| **2,3,4,4'-TeCB** | 60 | | J | 0.512 | 0.500 (Q) | 0.68 | 0.911 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C B J | 2.98 | 0.500 (Q) | 0.84 | 0.875 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | |
| **2,3,4',5-TeCB** | 63 | | U | | 0.500 (Q) | | |
| **2,3,4',6-TeCB** | 64 | | B J | 1.26 | 0.500 (Q) | 0.76 | 1.348 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | |
| **2,3',4,4'-TeCB** | 66 | | B J | 1.28 | 0.500 (Q) | 0.88 | 0.885 |
| **2,3',4,5-TeCB** | 67 | | U | | 0.500 (Q) | | |
| **2,3',4,5'-TeCB** | 68 | | B J | 1.08 | 0.500 (Q) | 0.85 | 0.831 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | |
| **2,3',5,5'-TeCB** | 72 | | U | | 0.500 (Q) | | |
| **2,3',5',6-TeCB** | 73 | | U | | 0.500 (Q) | | |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | |
| **3,3',4,4'-TeCB** | 77 | | U | | 0.500 (Q) | | |
| **3,3',4,5-TeCB** | 78 | | U | | 0.500 (Q) | | |
| **3,3',4,5'-TeCB** | 79 | | U | | 0.500 (Q) | | |
| **3,3',5,5'-TeCB** | 80 | | U | | 0.500 (Q) | | |
| **3,4,4',5-TeCB** | 81 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4-PeCB** | 82 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C U | | 0.500 (Q) | | |
| **2,2',3,3',6-PeCB** | 84 | | K J | 0.569 | 0.500 (Q) | 1.25 | 1.164 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C U | | 0.500 (Q) | | |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C K B J | 2.39 | 0.500 (Q) | 1.26 | 0.900 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C U | | 0.500 (Q) | | |
| **2,2',3,4,6'-PeCB** | 89 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C K B J | 2.23 | 0.500 (Q) | 1.84 | 0.869 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | U | | 0.500 (Q) | | |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C B J | 2.56 | 0.500 (Q) | 1.33 | 1.122 |
| **2,2',3,5,6'-PeCB** | 94 | | U | | 0.500 (Q) | | |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | U | | 0.500 (Q) | | |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | |
| **2,2',4,5',6-PeCB** | 103 | | U | | 0.500 (Q) | | |
| **2,2',4,6,6'-PeCB** | 104 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4'-PeCB** | 105 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5-PeCB** | 106 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5-PeCB** | 107 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5'-PeCB** | 108 | 108 + 124 | C U | | 0.500 (Q) | | |
| **2,3,3',4,6-PeCB** | 109 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C K B J | 2.06 | 0.500 (Q) | 1.31 | 0.924 |
| **2,3,3',5,5'-PeCB** | 111 | | U | | 0.500 (Q) | | |
| **2,3,3',5,6-PeCB** | 112 | | U | | 0.500 (Q) | | |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | |
| **2,3,4,4',5-PeCB** | 114 | | U | | 0.500 (Q) | | |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | |
| **2,3',4,4',5-PeCB** | 118 | | B J | 1.06 | 0.500 (Q) | 1.74 | 1.001 |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | U | | 0.500 (Q) | | |
| **2,3',4,5',6-PeCB** | 121 | | U | | 0.500 (Q) | | |
| **2',3,3',4,5-PeCB** | 122 | | U | | 0.500 (Q) | | |
| **2',3,4,4',5-PeCB** | 123 | | U | | 0.500 (Q) | | |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | |
| **3,3',4,4',5-PeCB** | 126 | | U | | 0.500 (Q) | | |
| **3,3',4,5,5'-PeCB** | 127 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C K B J | 0.670 | 0.500 (Q) | 10.6 | 0.932 |
| **2,2',3,3',4,5'-HxCB** | 130 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6-HxCB** | 131 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6'-HxCB** | 132 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5'-HxCB** | 133 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C U | | 0.500 (Q) | | |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C U | | 0.500 (Q) | | |
| **2,2',3,3',6,6'-HxCB** | 136 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5-HxCB** | 137 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6-HxCB** | 142 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | U | | 0.500 (Q) | | |
| **2,2',3,4,6,6'-HxCB** | 145 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5'-HxCB** | 146 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C K B J | 0.780 | 0.500 (Q) | 0.62 | 1.134 |
| **2,2',3,4',5,6'-HxCB** | 148 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | U | | 0.500 (Q) | | |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | U | | 0.500 (Q) | | |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C K B J | 1.10 | 0.500 (Q) | 1.53 | 0.899 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | |
| **2,2',4,4',6,6'-HxCB** | 155 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C U | | 0.500 (Q) | | |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5'-HxCB** | 159 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | CONC. FOUND | REPORTING LIMIT (RL)[2] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|
| **2,3,3',4,5',6-HxCB** | 161 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5'-HxCB** | 162 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | U | | 0.500 (Q) | | |
| **2,3,3',5,5',6-HxCB** | 165 | | U | | 0.500 (Q) | | |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | U | | 0.500 (Q) | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | |
| **3,3',4,4',5,5'-HxCB** | 169 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5',6-HpCB** | 175 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4',5,6-HpCB** | 177 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6-HpCB** | 178 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6-HpCB** | 181 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C U | | 0.500 (Q) | | |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | U | | 0.500 (Q) | | |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,5',6-HpCB** | 187 | | U | | 0.500 (Q) | | |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,6-HpCB** | 190 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5',6-HpCB** | 191 | | U | | 0.500 (Q) | | |
| **2,3,3',4,5,5',6-HpCB** | 192 | | U | | 0.500 (Q) | | |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | U | | 0.500 (Q) | | |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | U | | 0.500 (Q) | | |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | U | | 0.500 (Q) | | |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | U | | 0.510 (S) | | |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | U | | 0.500 (Q) | | |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | B J | 0.745 | 0.500 (Q) | 1.33 | 1.000 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.
(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

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Report Filename: 1668_PCB1668_PCBTFC_WG58451-104_Form1A_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 2**

**PCB CONGENER ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 6** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg absolute | | |

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | SPIKE CONC. | CONC. FOUND | R(%) [3] | ION ABUND. RATIO | RRT |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 2000 | 1030 | 51.6 | 3.18 | 0.719 |
| **13C12-4-MoCB** | 3L | | | 2000 | 1060 | 53.1 | 3.13 | 0.858 |
| **13C12-2,2'-DiCB** | 4L | | | 2000 | 1110 | 55.4 | 1.60 | 0.873 |
| **13C12-4,4'-DiCB** | 15L | | | 2000 | 1260 | 62.8 | 1.59 | 1.253 |
| **13C12-2,2',6-TriCB** | 19L | | | 2000 | 1090 | 54.5 | 1.05 | 1.071 |
| **13C12-3,4,4'-TriCB** | 37L | | | 2000 | 1400 | 70.2 | 1.07 | 1.091 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 2000 | 1280 | 64.1 | 0.80 | 0.811 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 2000 | 1340 | 67.1 | 0.79 | 1.397 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 2000 | 1360 | 68.2 | 0.79 | 1.373 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 2000 | 1280 | 64.1 | 1.61 | 0.808 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 2000 | 1590 | 79.4 | 1.61 | 1.199 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 2000 | 1480 | 74.2 | 1.62 | 1.179 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 2000 | 1460 | 73.1 | 1.58 | 1.161 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 2000 | 1450 | 72.5 | 1.61 | 1.151 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 2000 | 1470 | 73.3 | 1.60 | 1.301 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2000 | 1340 | 66.8 | 1.27 | 0.786 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 4000 | 2910 | 72.7 | 1.24 | 1.107 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 2000 | 1440 | 71.8 | 1.29 | 1.078 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 2000 | 1500 | 75.1 | 1.26 | 1.191 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 2000 | 1680 | 83.8 | 1.02 | 0.897 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 2000 | 1630 | 81.4 | 1.05 | 0.872 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2000 | 1100 | 54.8 | 1.06 | 0.712 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 2000 | 1630 | 81.3 | 1.07 | 0.959 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2000 | 982 | 49.1 | 0.90 | 0.818 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 2000 | 1480 | 74.1 | 0.91 | 1.009 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 2000 | 1420 | 70.8 | 0.77 | 1.043 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 2000 | 1250 | 62.7 | 0.78 | 0.949 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 2000 | 1300 | 65.1 | 1.18 | 1.075 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 2000 | 1670 | 83.5 | 1.06 | 0.925 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 2000 | 1490 | 74.3 | 1.61 | 1.087 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 2000 | 1540 | 76.9 | 1.03 | 1.012 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) R% = percent recovery of labeled compounds.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Form16682.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-104_Form2_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**Form 1A**

**HOMOLOGUE TOTAL PCB ANALYSIS REPORT**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Matrix:** | AQUEOUS | **Sample Size:** | 1.00 L |
| **Sample Receipt Date:** | N/A | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Sample Data Filename:** | **PB7C_129 S: 6** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |
| **Concentration Units:** | pg/L | | |

| PCB HOMOLOGUE GROUP | LAB FLAG [1] | CONC. FOUND |
|---|---|---|
| **Total Monochloro Biphenyls** | | 8.16 |
| **Total Dichloro Biphenyls** | | 83.7 |
| **Total Trichloro Biphenyls** | | 32.8 |
| **Total Tetrachloro Biphenyls** | | 27.0 |
| **Total Pentachloro Biphenyls** | | 3.62 |
| **Total Hexachloro Biphenyls** | U | |
| **Total Heptachloro Biphenyls** | U | |
| **Total Octachloro Biphenyls** | U | |
| **Total Nonachloro Biphenyls** | U | |
| **Decachloro Biphenyl** | | 0.745 |
| **TOTAL PCBs** | | 156 |

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refer to secondary analysis of the sample extract.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form1668HTII.xsl; Created: 21-Apr-2017 15:39:55; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_HomTotals-TEQsC_WG58451-104_Form1AHT_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 8A**

**PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **OPR Data Filename:** | **PB7C_129 S: 2** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |

**CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.**

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | ION ABUND. RATIO | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | OPR CONC. LIMITS (ng/mL) | % RECOVERY |
|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | 3.13 | 50.0 | 48.5 | 30.0 - 67.5 | 97.0 |
| **4-MoCB** | 3 | | | 3.10 | 50.0 | 49.7 | 30.0 - 67.5 | 99.4 |
| **2,2'-DiCB** | 4 | | | 1.56 | 50.0 | 48.5 | 30.0 - 67.5 | 97.0 |
| **4,4'-DiCB** | 15 | | | 1.56 | 50.0 | 49.6 | 30.0 - 67.5 | 99.1 |
| **2,2',6-TriCB** | 19 | | | 1.05 | 50.0 | 50.0 | 30.0 - 67.5 | 100 |
| **3,4,4'-TriCB** | 37 | | | 1.04 | 50.0 | 51.0 | 30.0 - 67.5 | 102 |
| **2,2',6,6'-TeCB** | 54 | | | 0.78 | 50.0 | 47.7 | 30.0 - 67.5 | 95.5 |
| **3,3',4,4'-TeCB** | 77 | | | 0.78 | 50.0 | 50.7 | 30.0 - 67.5 | 101 |
| **3,4,4',5-TeCB** | 81 | | | 0.78 | 50.0 | 50.1 | 30.0 - 67.5 | 100 |
| **2,2',4,6,6'-PeCB** | 104 | | | 1.57 | 50.0 | 47.7 | 30.0 - 67.5 | 95.5 |
| **2,3,3',4,4'-PeCB** | 105 | | | 1.58 | 50.0 | 51.7 | 30.0 - 67.5 | 103 |
| **2,3,4,4',5-PeCB** | 114 | | | 1.58 | 50.0 | 50.3 | 30.0 - 67.5 | 101 |
| **2,3',4,4',5-PeCB** | 118 | | | 1.56 | 50.0 | 51.0 | 30.0 - 67.5 | 102 |
| **2',3,4,4',5-PeCB** | 123 | | | 1.57 | 50.0 | 50.4 | 30.0 - 67.5 | 101 |
| **3,3',4,4',5-PeCB** | 126 | | | 1.53 | 50.0 | 50.7 | 30.0 - 67.5 | 101 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | 1.27 | 50.0 | 45.8 | 30.0 - 67.5 | 91.7 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 1.25 | 100 | 102 | 60.0 - 135 | 102 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 1.27 | 50.0 | 51.0 | 30.0 - 67.5 | 102 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | 1.27 | 50.0 | 50.3 | 30.0 - 67.5 | 101 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | 1.04 | 50.0 | 47.8 | 30.0 - 67.5 | 95.6 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 1.04 | 50.0 | 51.1 | 30.0 - 67.5 | 102 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 0.90 | 50.0 | 50.9 | 30.0 - 67.5 | 102 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 0.89 | 50.0 | 51.7 | 30.0 - 67.5 | 103 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 0.77 | 50.0 | 50.4 | 30.0 - 67.5 | 101 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 0.78 | 50.0 | 49.5 | 30.0 - 67.5 | 99.0 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | 1.18 | 50.0 | 47.2 | 30.0 - 67.5 | 94.4 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form16688A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-102_Form8A_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 8B**

**PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Matrix:** | AQUEOUS | **Initial Calibration Date:** | 27-Nov-2016 |
| **Extraction Date:** | 05-Apr-2017 | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **OPR Data Filename:** | **PB7C_129 S: 2** |
| **Injection Volume (uL):** | 1.0 | **Blank Data Filename:** | PB7C_129 S: 4 |
| **Dilution Factor:** | N/A | **Cal. Ver. Data Filename:** | PB7C_129 S: 1 |

**CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.**

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG[2] | ION ABUND. RATIO | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | OPR CONC. LIMITS (ng/mL) | % RECOVERY |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 3.21 | 100 | 41.6 | 15.0 - 145 | 41.6 |
| **13C12-4-MoCB** | 3L | | | 3.15 | 100 | 44.0 | 15.0 - 145 | 44.0 |
| **13C12-2,2'-DiCB** | 4L | | | 1.60 | 100 | 44.8 | 15.0 - 145 | 44.8 |
| **13C12-4,4'-DiCB** | 15L | | | 1.59 | 100 | 62.1 | 15.0 - 145 | 62.1 |
| **13C12-2,2',6-TriCB** | 19L | | | 1.06 | 100 | 48.8 | 15.0 - 145 | 48.8 |
| **13C12-3,4,4'-TriCB** | 37L | | | 1.06 | 100 | 78.0 | 15.0 - 145 | 78.0 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 0.80 | 100 | 63.4 | 15.0 - 145 | 63.4 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 0.78 | 100 | 78.8 | 40.0 - 145 | 78.8 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 0.77 | 100 | 78.3 | 40.0 - 145 | 78.3 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 1.58 | 100 | 65.2 | 40.0 - 145 | 65.2 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 1.58 | 100 | 83.3 | 40.0 - 145 | 83.3 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 1.60 | 100 | 79.1 | 40.0 - 145 | 79.1 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 1.56 | 100 | 78.6 | 40.0 - 145 | 78.6 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 1.56 | 100 | 78.5 | 40.0 - 145 | 78.5 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 1.57 | 100 | 78.8 | 40.0 - 145 | 78.8 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 1.26 | 100 | 74.2 | 40.0 - 145 | 74.2 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 1.27 | 200 | 157 | 80.0 - 290 | 78.6 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 1.28 | 100 | 78.6 | 40.0 - 145 | 78.6 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 1.25 | 100 | 82.9 | 40.0 - 145 | 82.9 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 1.03 | 100 | 67.1 | 40.0 - 145 | 67.1 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 1.06 | 100 | 91.5 | 40.0 - 145 | 91.5 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 0.92 | 100 | 58.4 | 40.0 - 145 | 58.4 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 0.91 | 100 | 79.4 | 40.0 - 145 | 79.4 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 0.80 | 100 | 73.6 | 40.0 - 145 | 73.6 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 0.80 | 100 | 70.4 | 40.0 - 145 | 70.4 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 1.19 | 100 | 68.4 | 40.0 - 145 | 68.4 |
| **CLEANUP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 1.05 | 100 | 84.6 | 15.0 - 145 | 84.6 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 1.58 | 100 | 78.8 | 40.0 - 145 | 78.8 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 1.04 | 100 | 79.4 | 40.0 - 145 | 79.4 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [ XSL Template: Form16688B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PCBTFC_WG58451-102_Form8B_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

www.axysanalytical.com



Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : Octyl
Serial # : 54277-02A/5563╖
kPa : 299
Vol injected: 1.0uL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

Tune : XX
List : XX
Check :
LIMS :
Logfile:

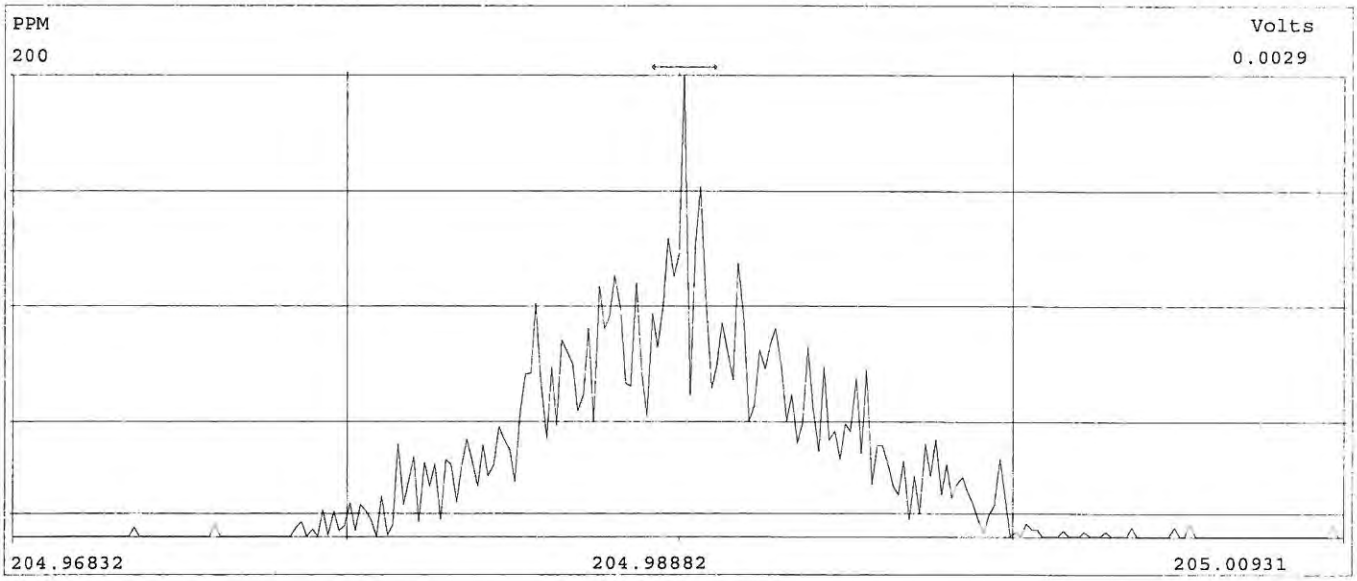
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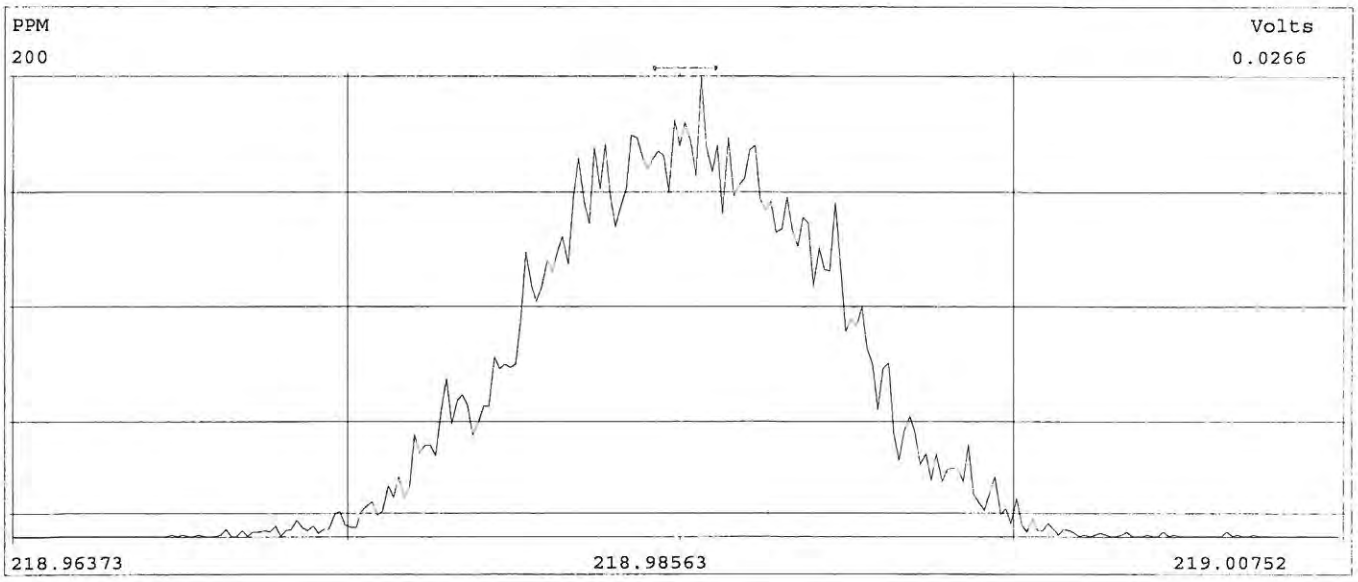
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| 2 | PB6C_435B | 2 | 2 | PB108A-CAL,,/01 CS058 | 1,,1.0uL CS-0.2/Sens | 27-NOV-16 10:16:42 |
| 3 | PB6C_435B | 3 | 3 | PB108C-CAL,,/01 CS157 | 1,,1.0uL CS-1 | 27-NOV-16 11:21:02 |
| 4 | PB6C_435B | 4 | 4 | PB108B-CAL,,/01 CS157 | 1,,1.0uL CS-1 | 27-NOV-16 12:25:19 |
| 5 | PB6C_435B | 5 | 5 | PB108G-CAL,,/01 CS557 | 1,,1.0uL CS-5 | 27-NOV-16 13:51:36 |
| 6 | PB6C_435B | 6 | 6 | PB108F-CAL,,/01 CS457 | 1,,1.0uL CS-4 | 27-NOV-16 14:55:58 |
| 7 | PB6C_435B | 7 | 7 | PB108E-CAL,,/01 CS357 | 1,,1.0uL CS-3 | 27-NOV-16 16:00:23 |
| 8 | PB6C_435B | 8 | 8 | PB108D-CAL,,/01 CS257 | 1,,1.0uL CS-2 | 27-NOV-16 17:04:44 |
| 9 | PB6C_435B | 9 | 9 | PB109A-CAL,,/01-38 CPS61+C | 1,,1.0uL Win/Res | 27-NOV-16 18:09:12 |
| 10 | PB6C_435B | 10 | 10 | PB108H-CAL,,/01 CS657 | 1,,1.0uL CS-6 | 27-NOV-16 19:13:34 |

Peak Locate Examination:27-NOV-2016:09:09 File:PB6C_435BCAL
Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

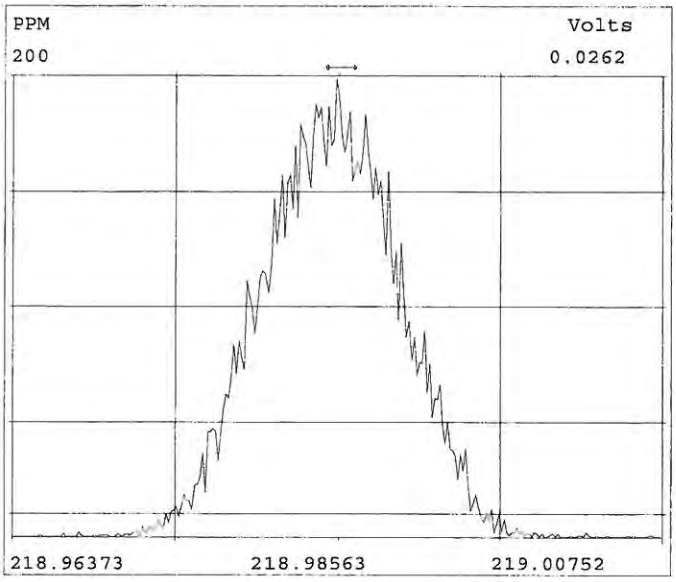
Approval ✓ 27 Nov 2016

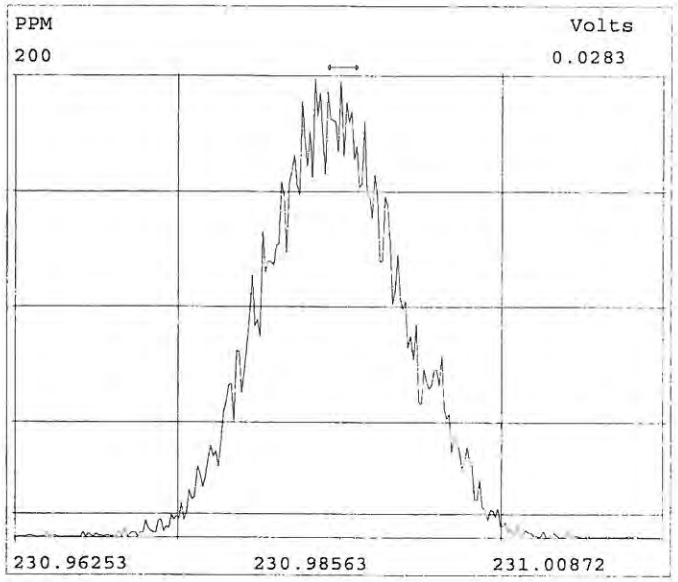


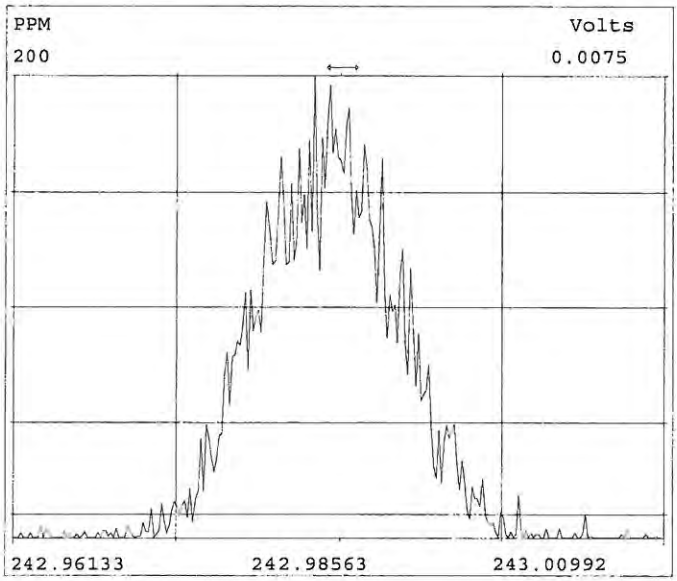



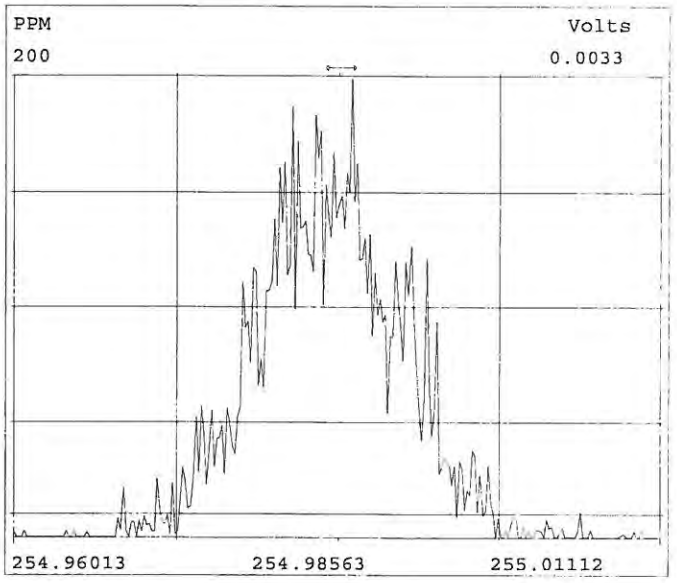



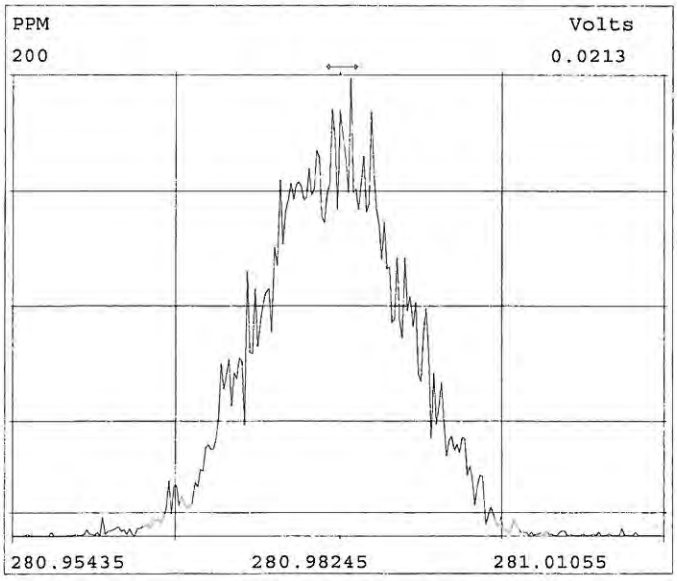
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Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668

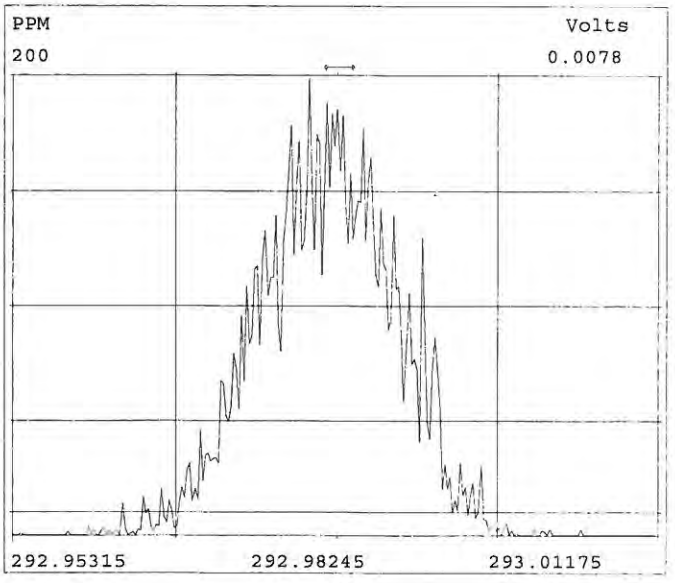


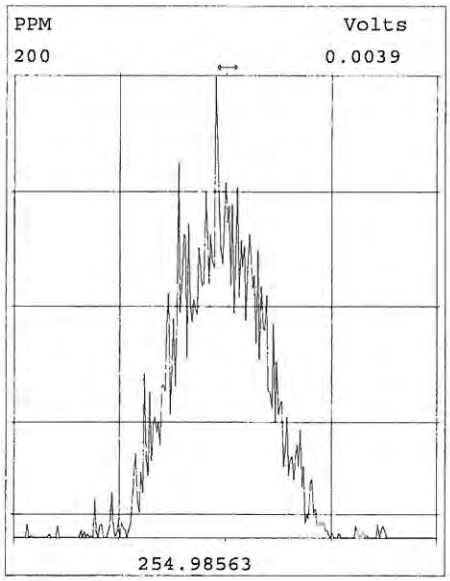



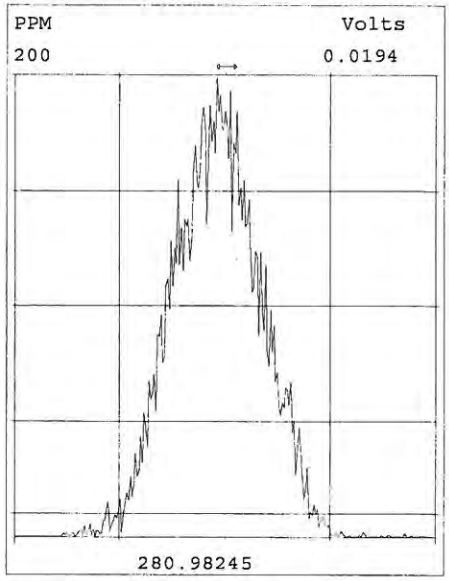



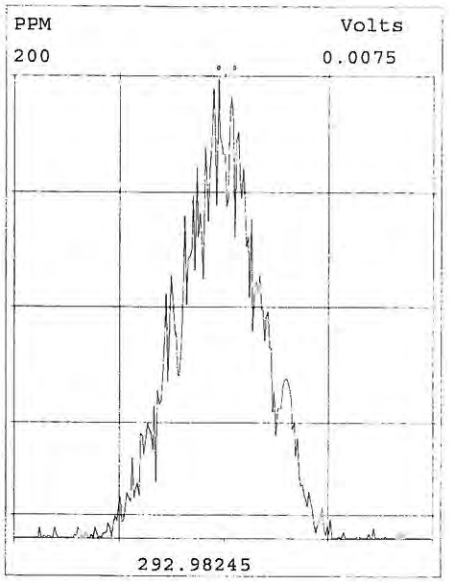



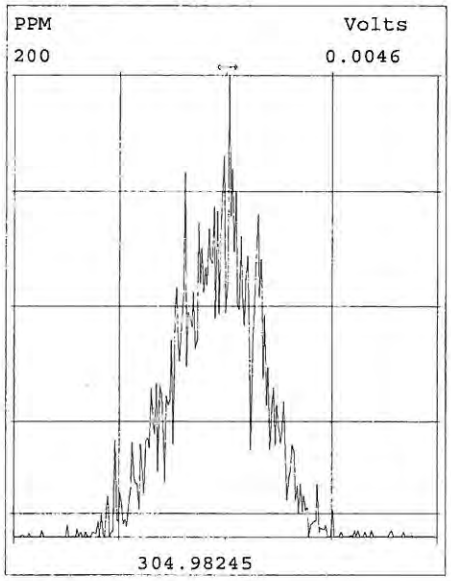



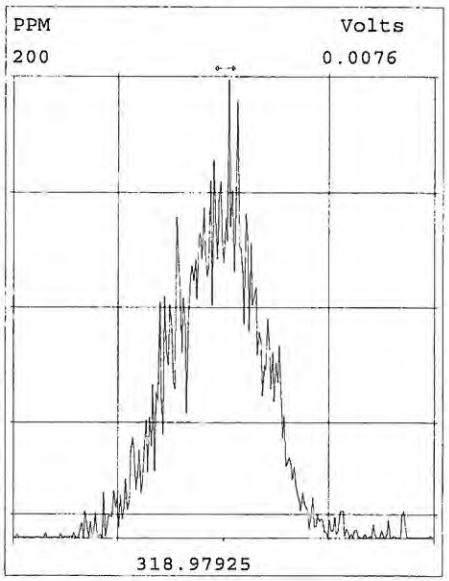
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Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

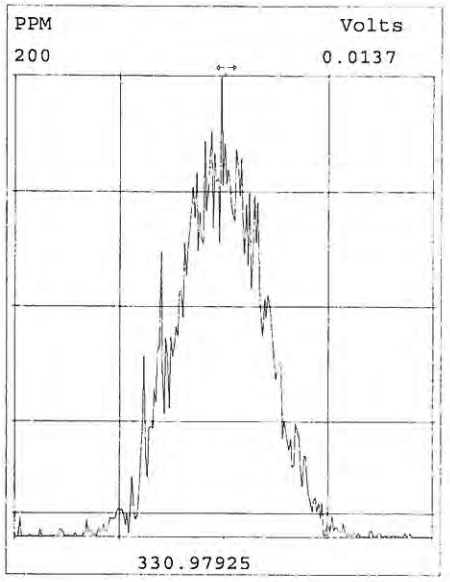


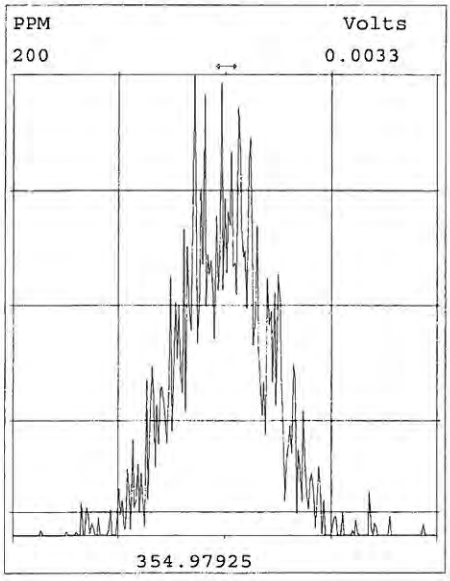



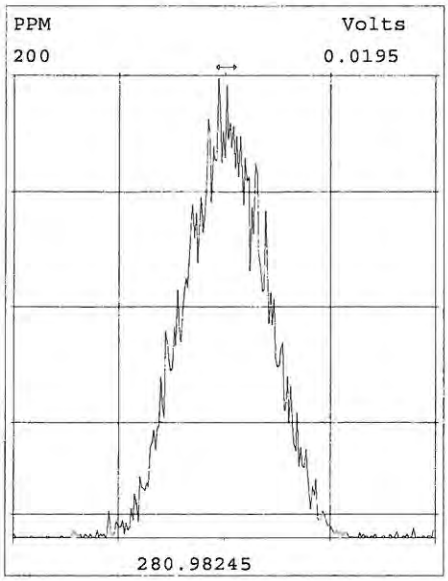



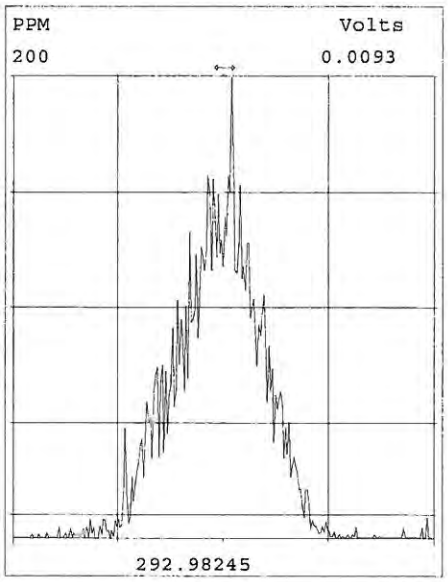



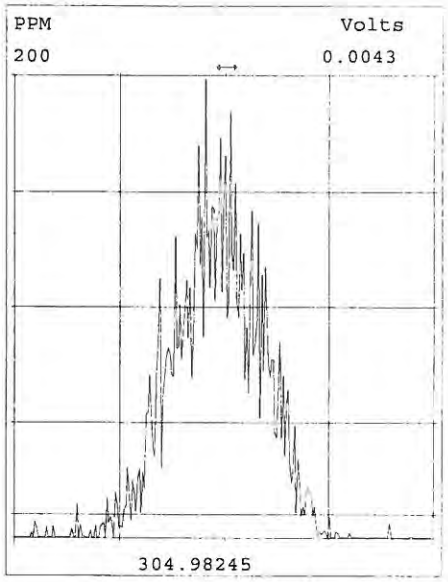



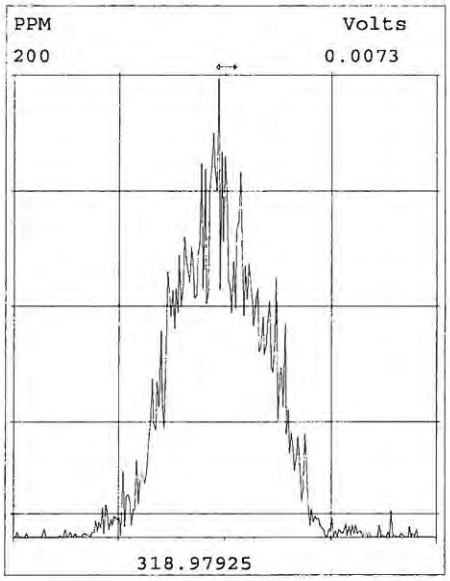



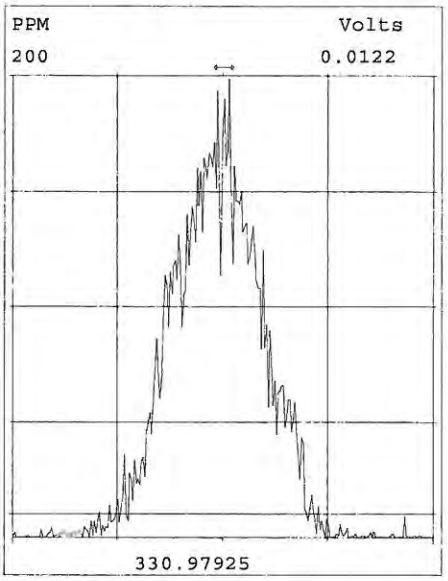
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Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

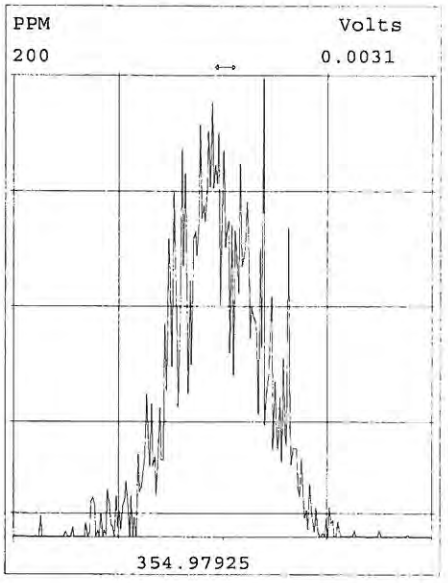


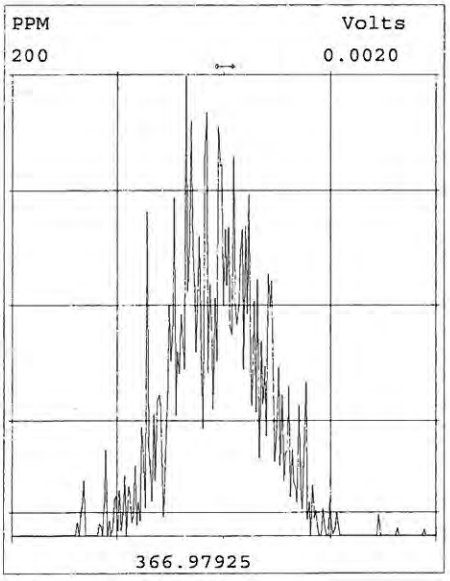



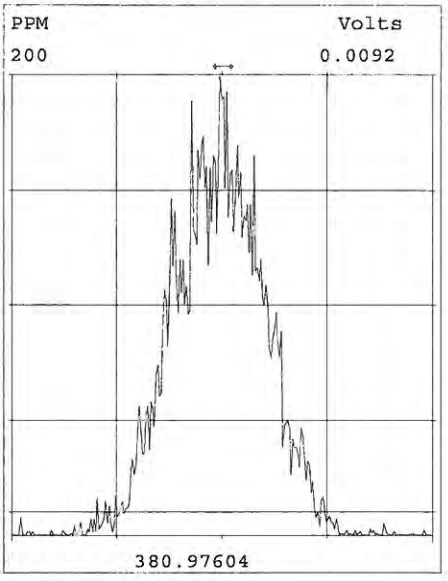



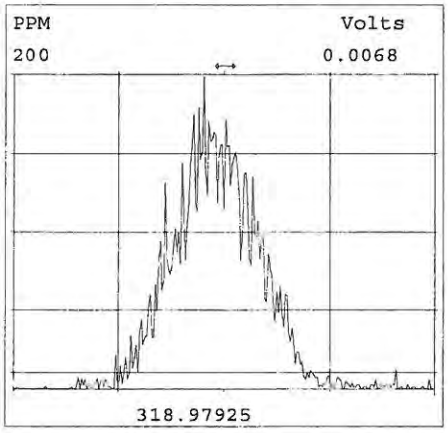



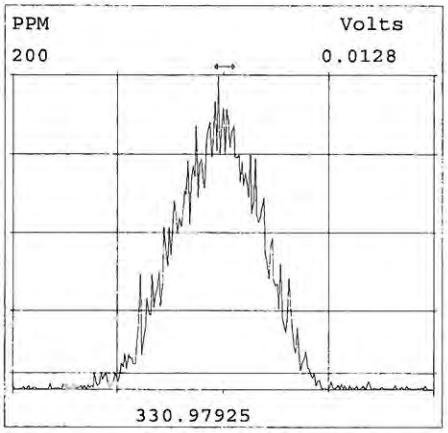



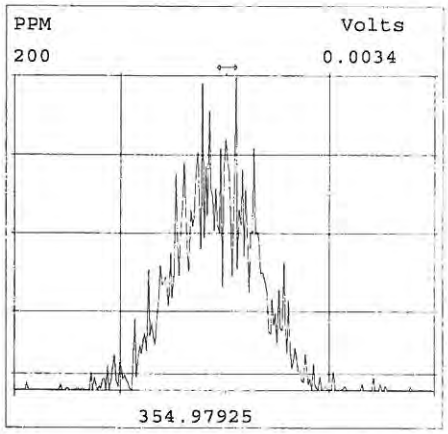



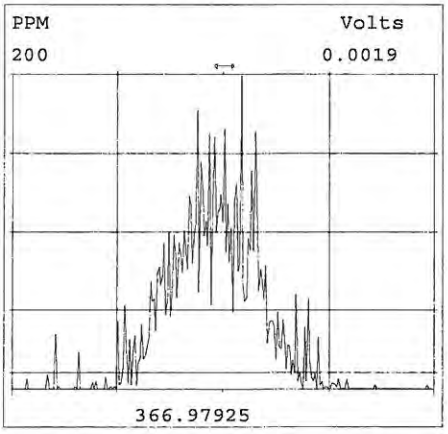



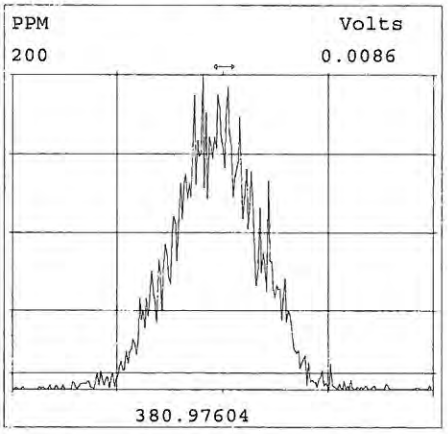
Peak Locate Examination:27-NOV-2016:09:11 File:PB6C_435BCAL
Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

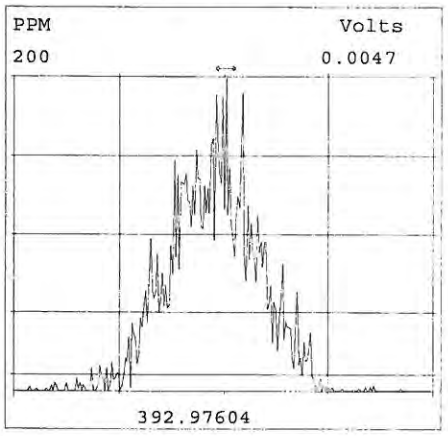


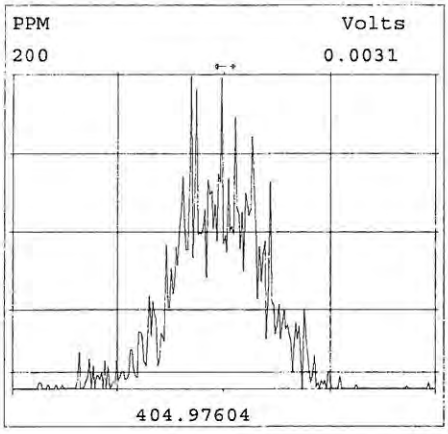



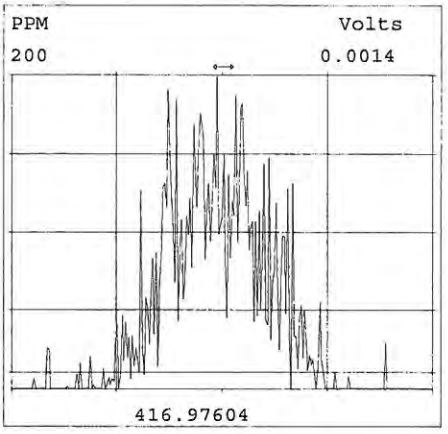



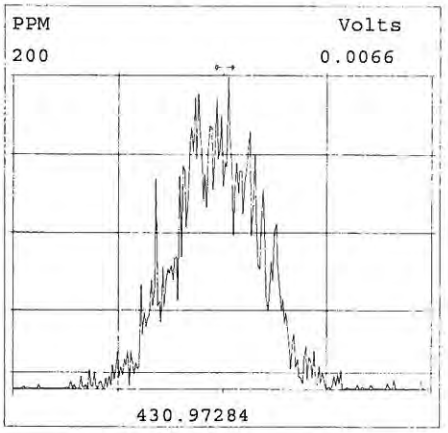



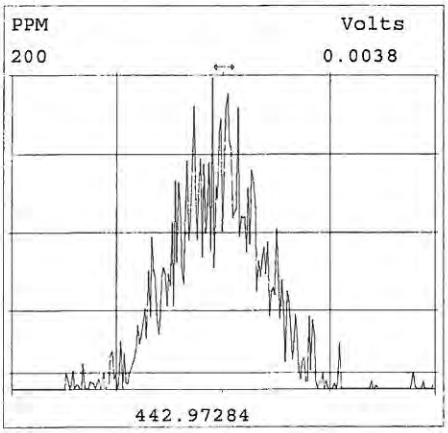



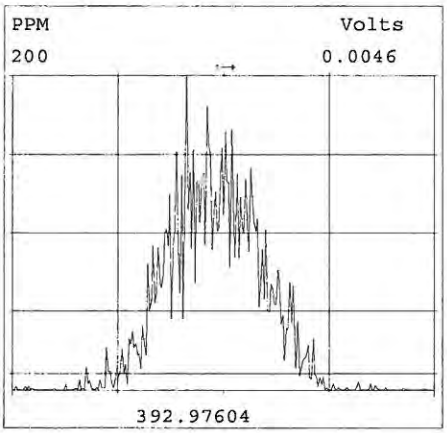



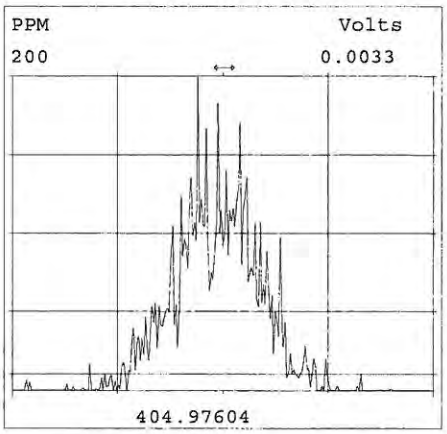



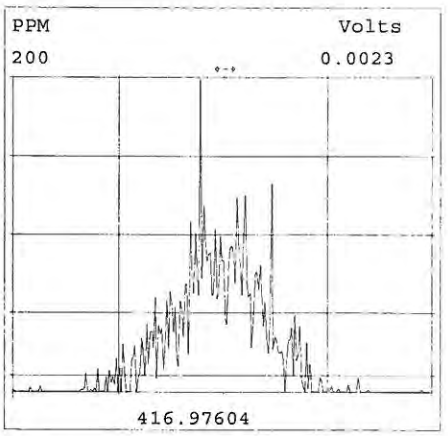



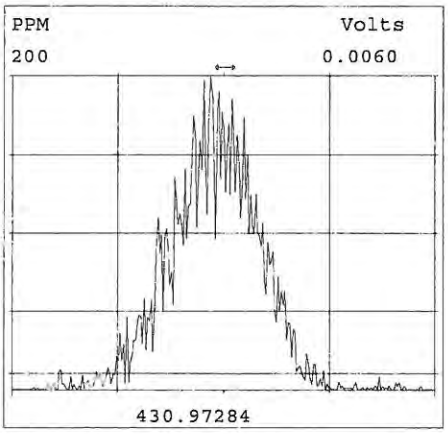



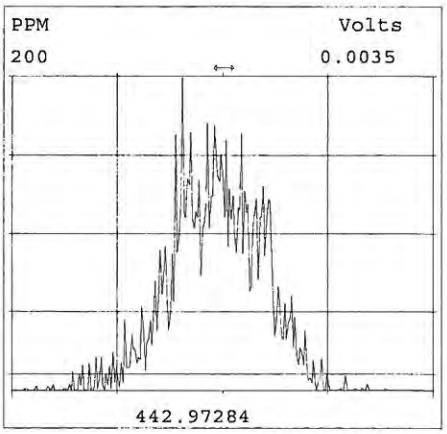
Peak Locate Examination:27-NOV-2016:09:11 File:PB6C_435BCAL
Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

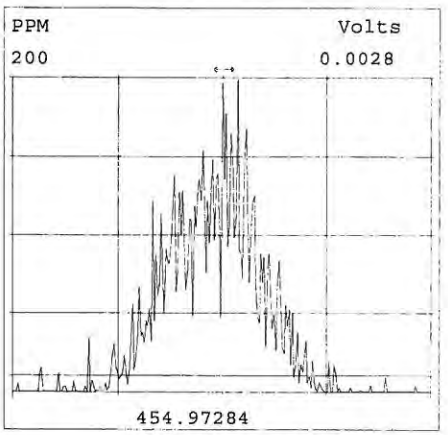


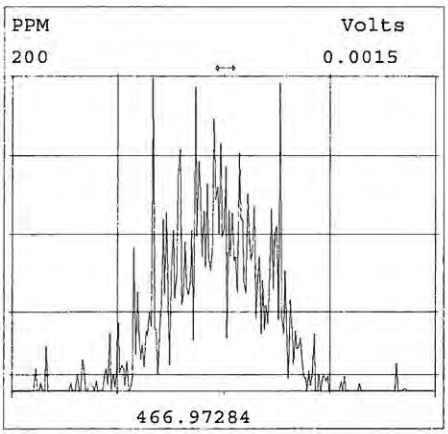



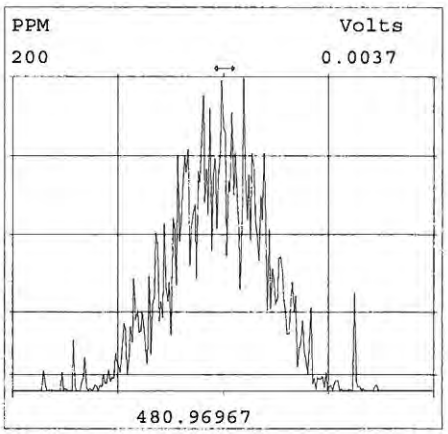



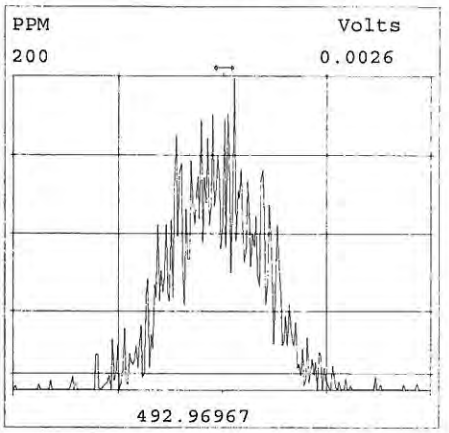



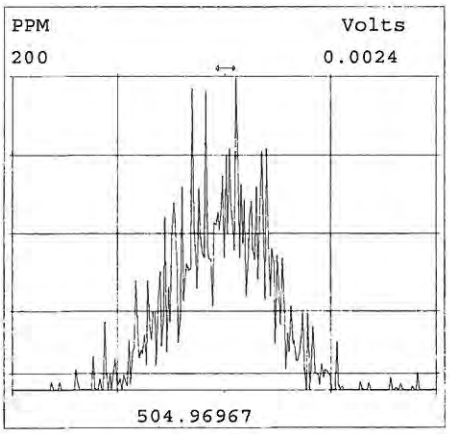



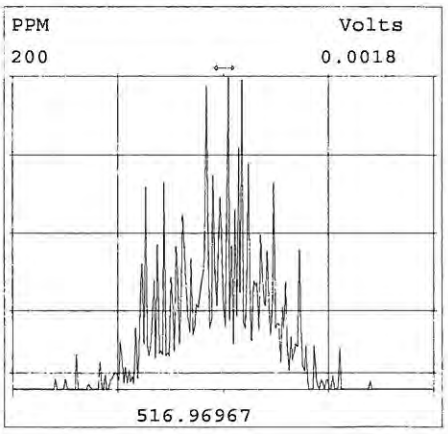



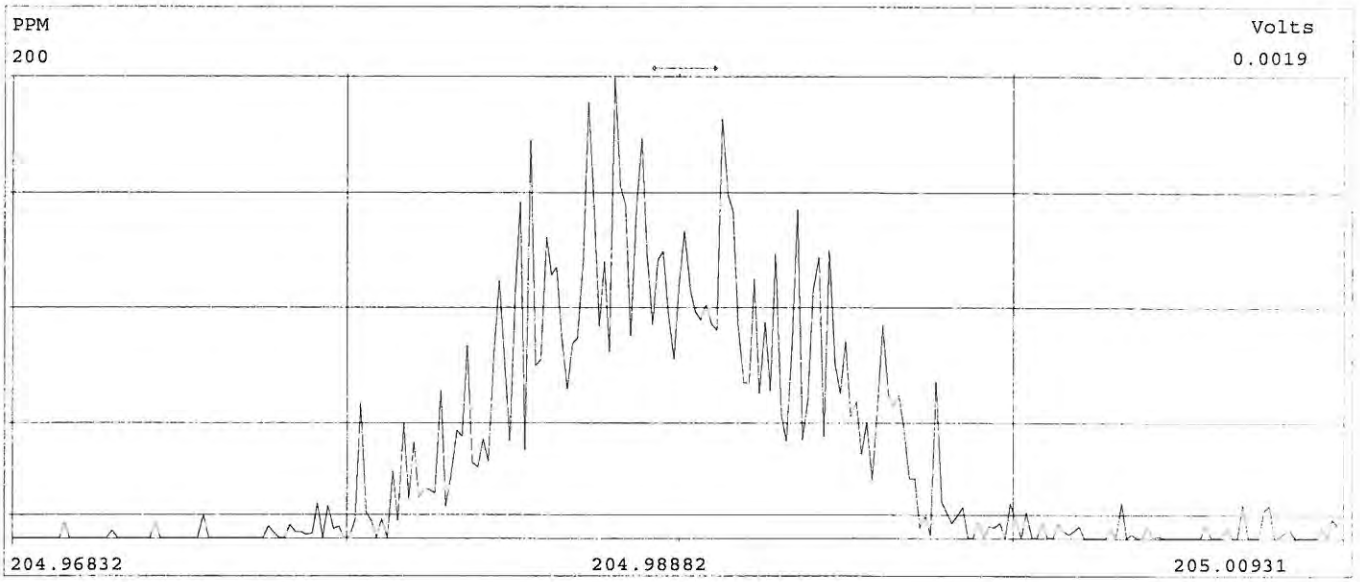



Peak Locate Examination:27-NOV-2016:20:23 File:PB6C_436CAL/435BCAL2
Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

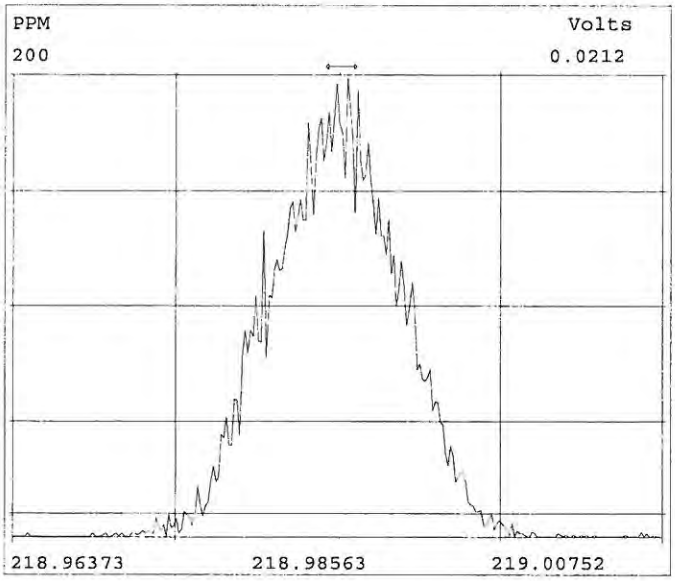
Approved xx 27 Nov 2016

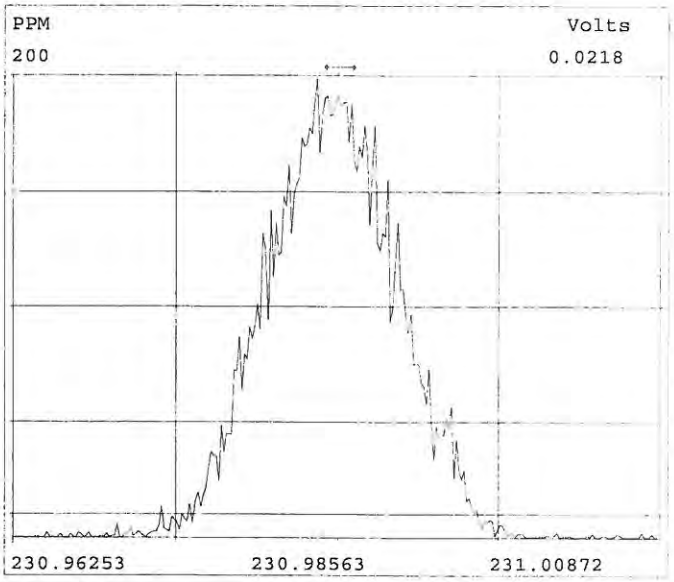


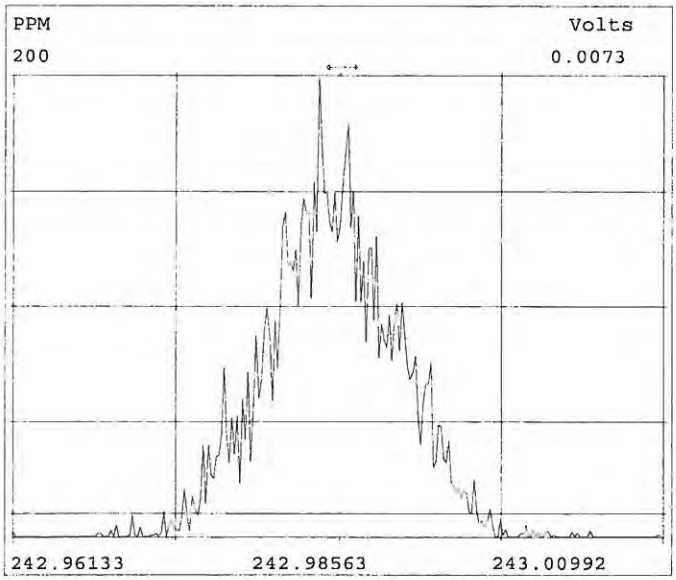



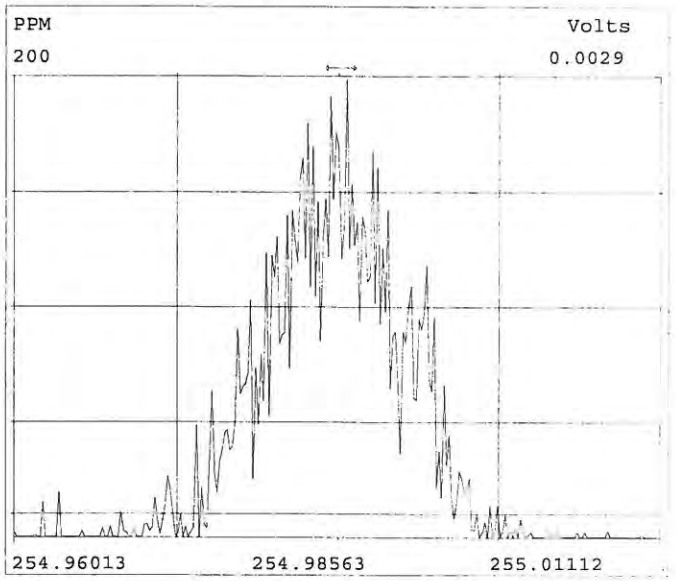


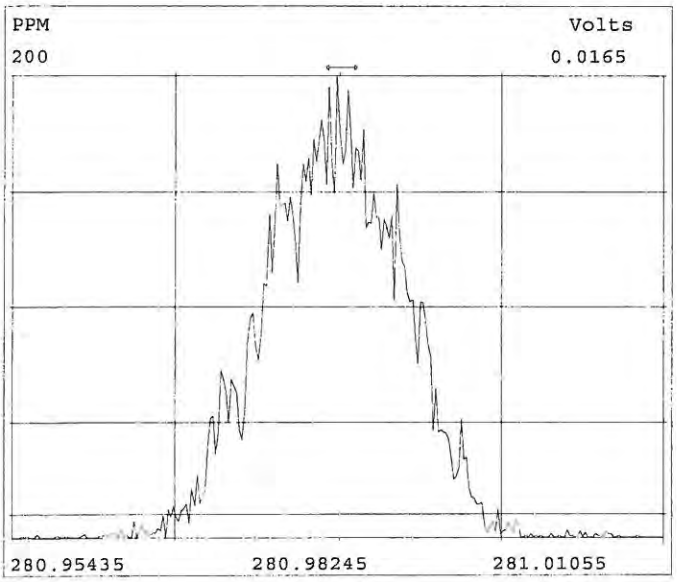

Peak Locate Examination:27-NOV-2016:20:23 File:PB6C_436CAL/435BCAL2
Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668



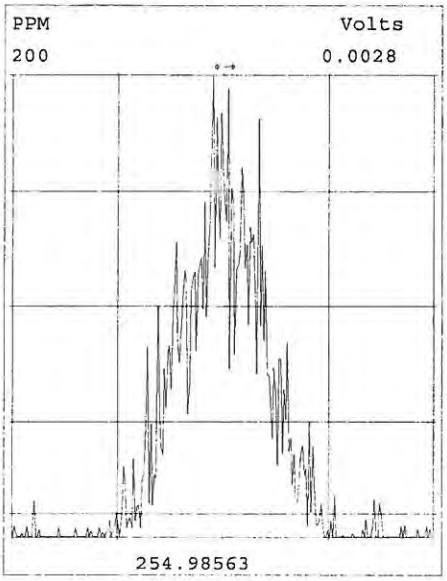



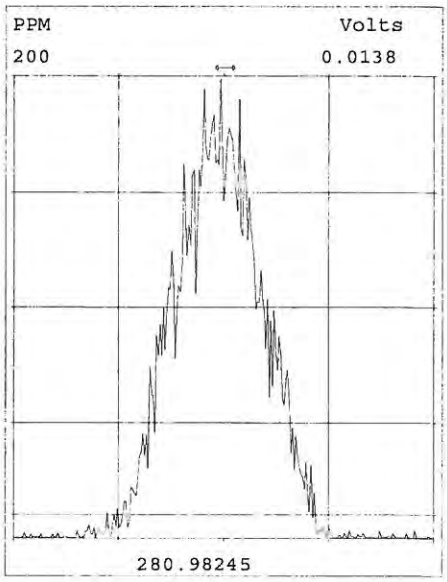



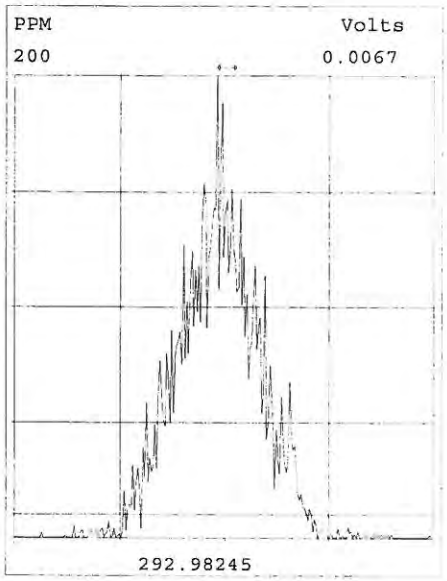



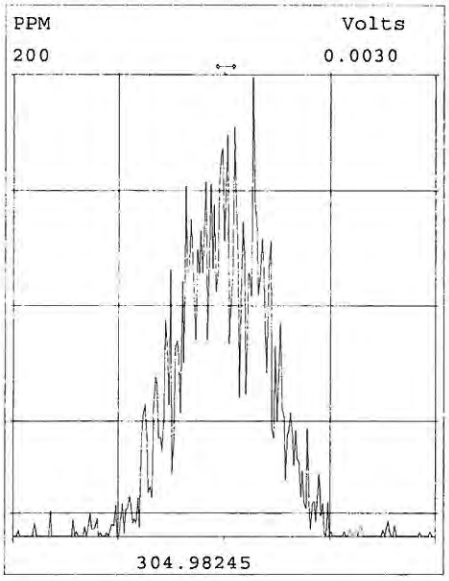


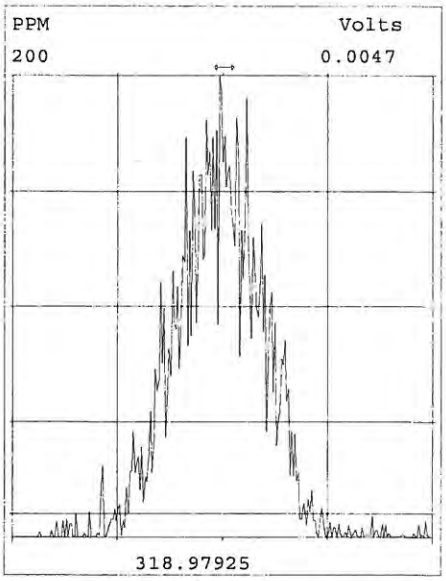

Peak Locate Examination:27-NOV-2016:20:24 File:PB6C_436CAL/435BCAL2
Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

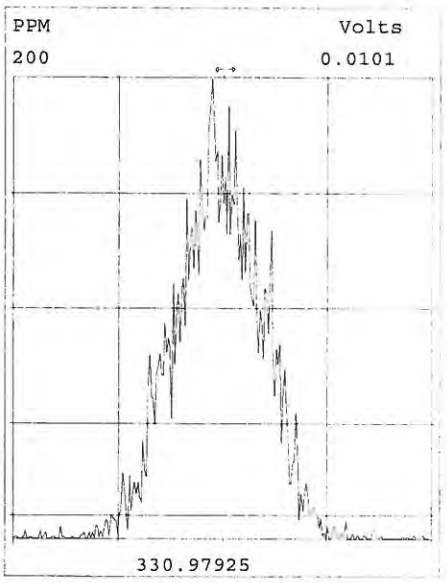


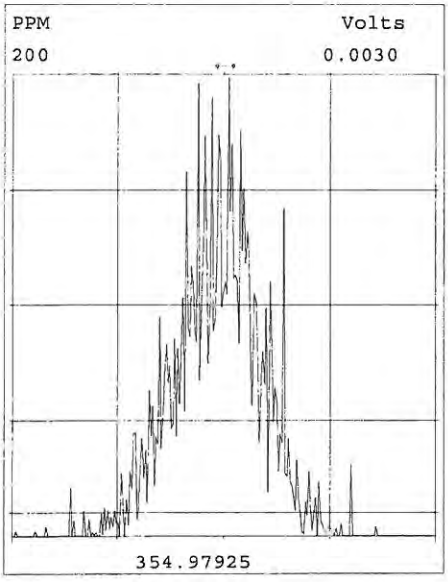



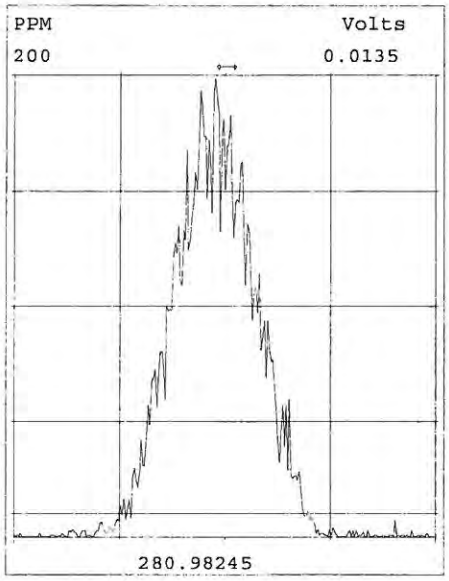



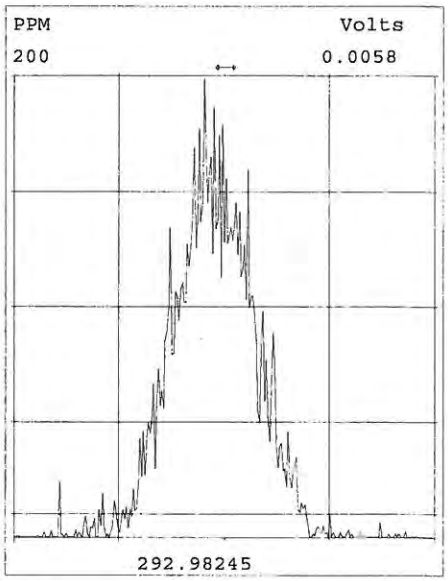



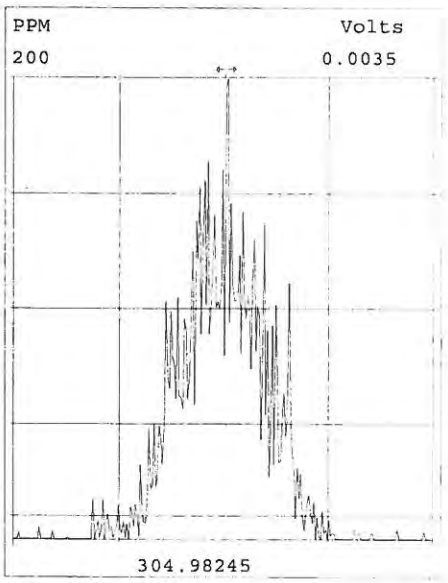



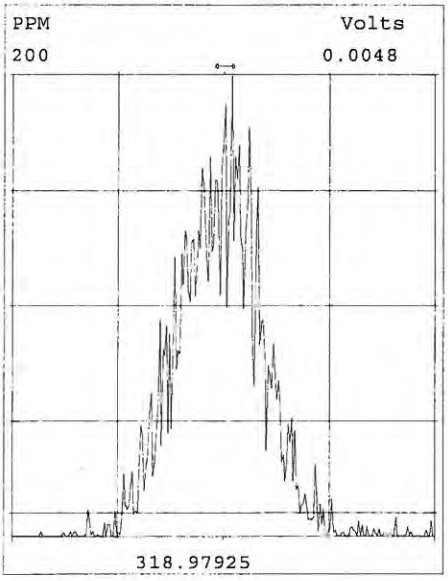



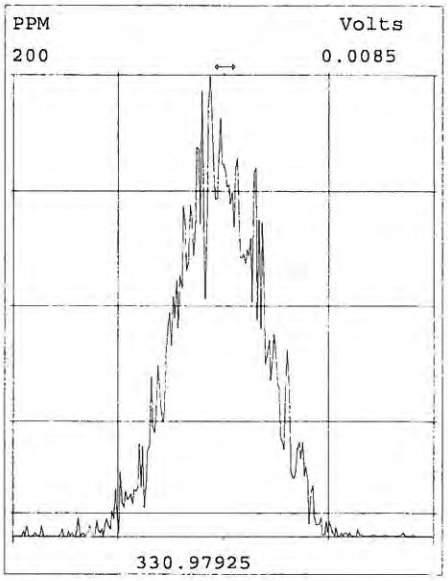
Peak Locate Examination:27-NOV-2016:20:24 File:PB6C_436CAL/435BCAL2
Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

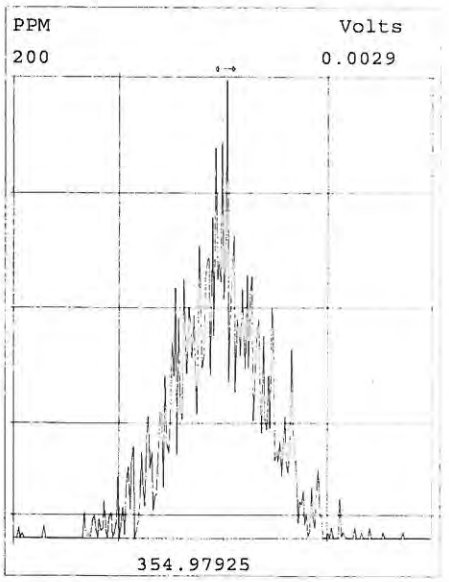


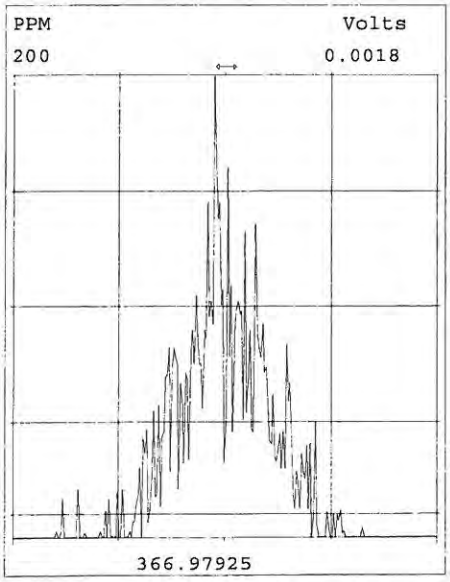



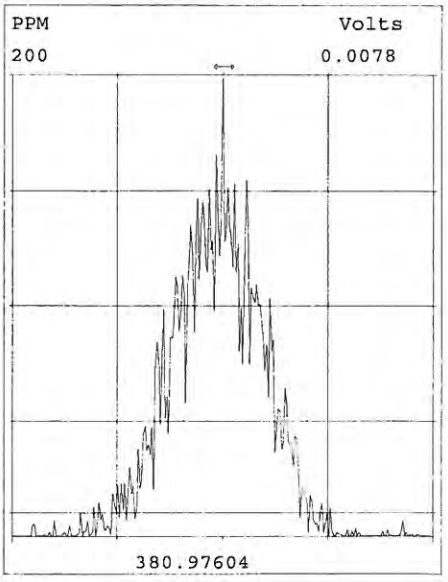



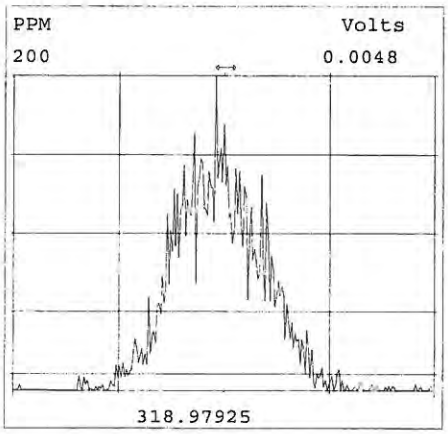



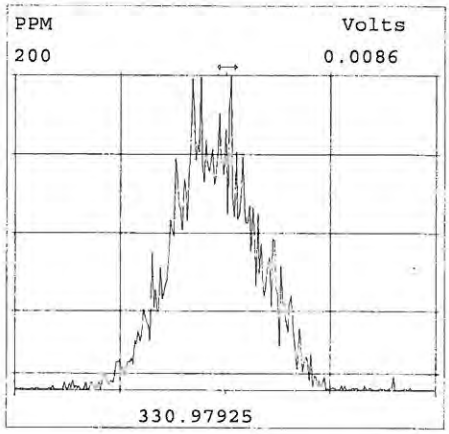



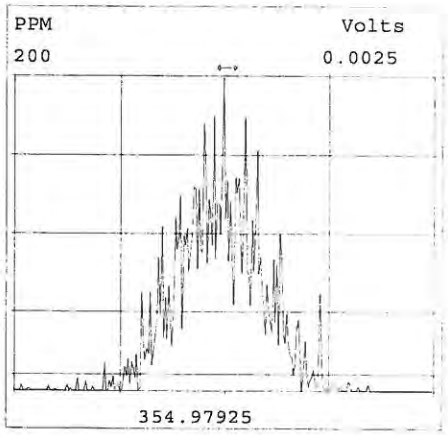



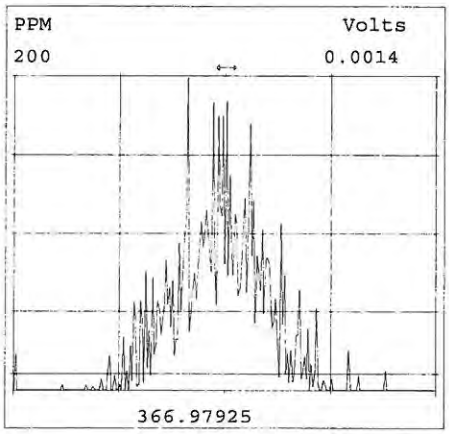



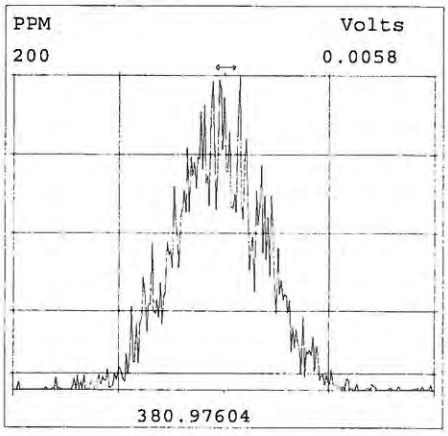
Peak Locate Examination:27-NOV-2016:20:24 File:PB6C_436CAL/435BCAL2
Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

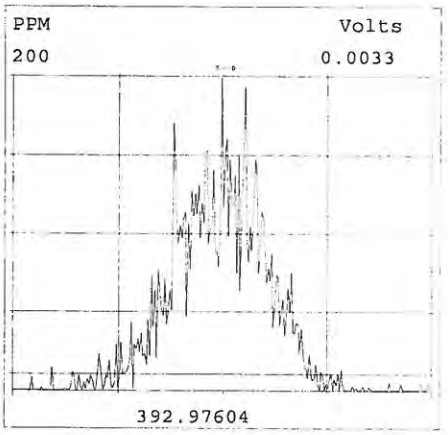


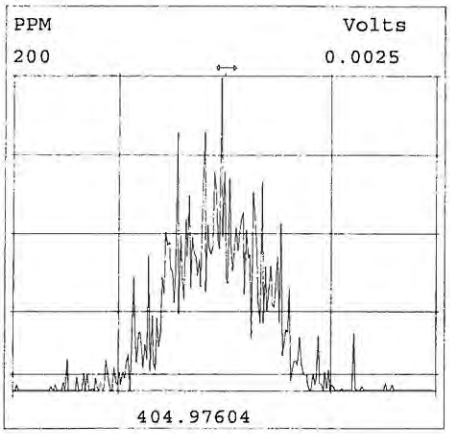



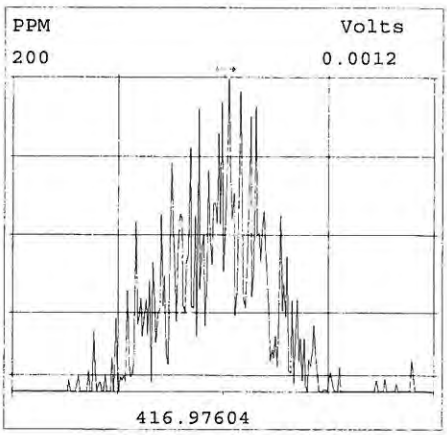



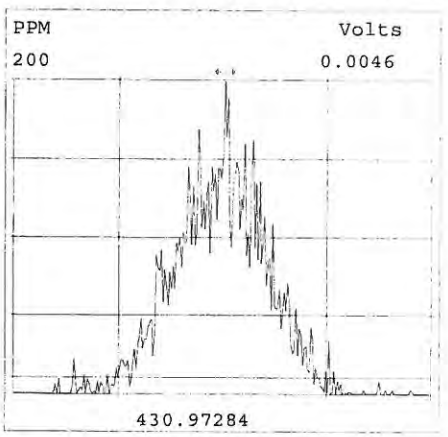



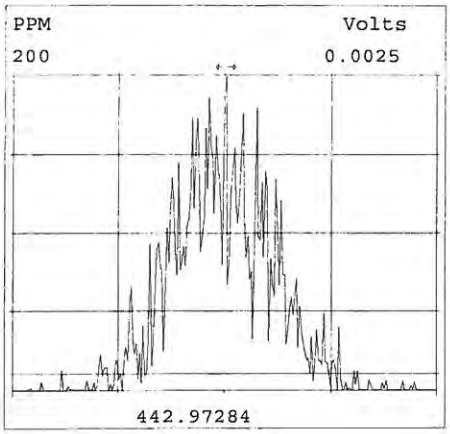



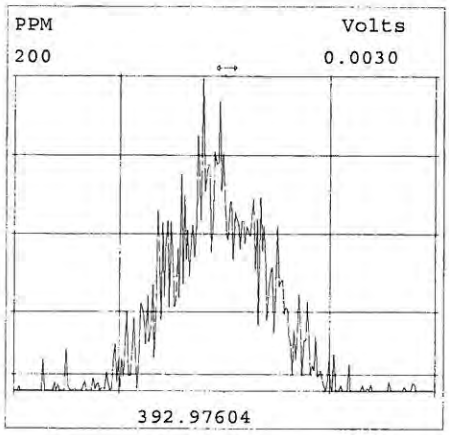



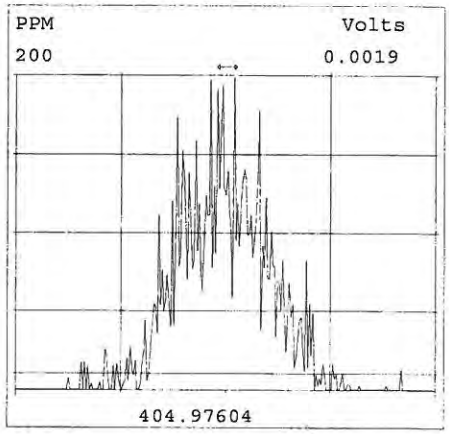



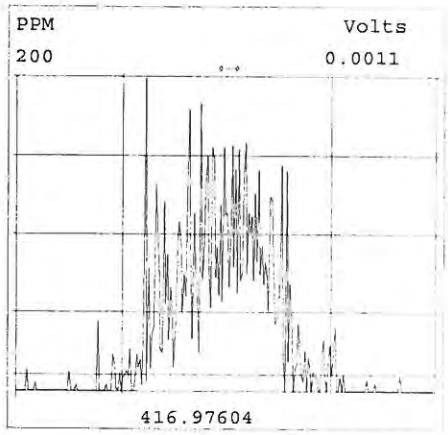



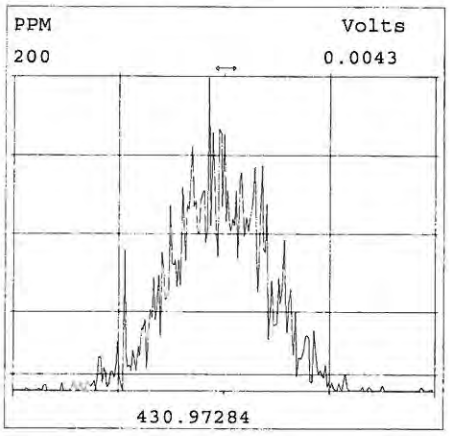



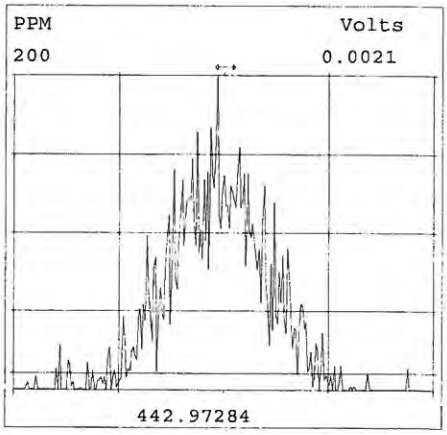
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Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

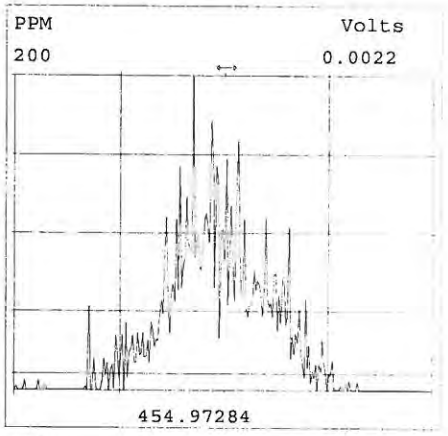


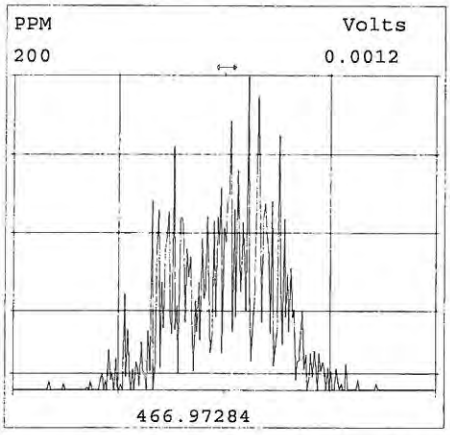



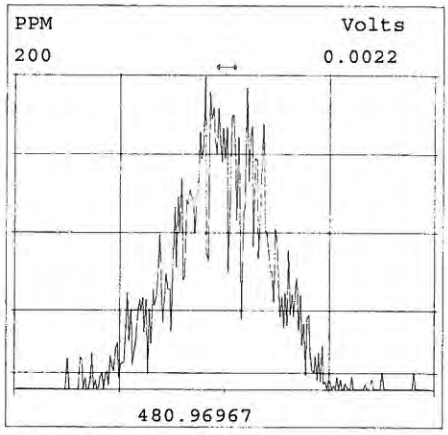



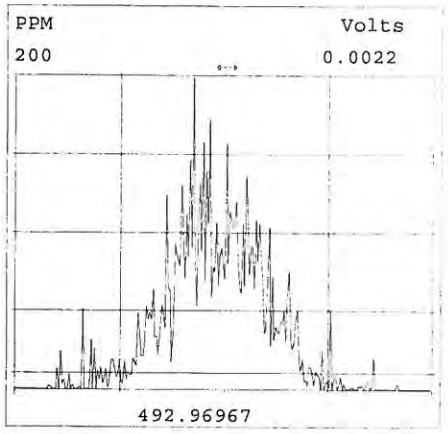



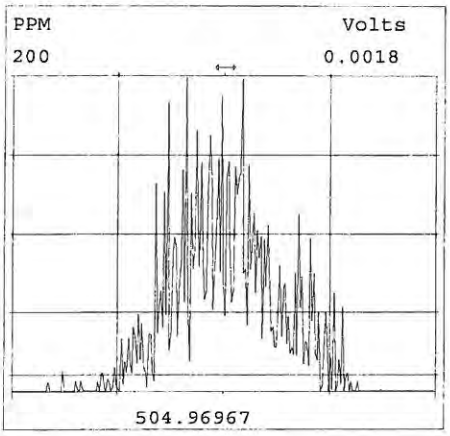



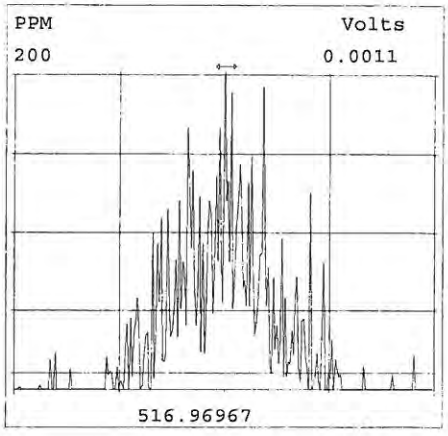



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PB6C_435B-7A





| c/q | Data Area | Data File | S | I | AnalyteTable | Factr #1 | Factr #2 | Size | HC | Sample Text | Comments | Done |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 c | ULTC | PB6C_435B | 1 | 1 | 1668A-C8 | 0.2000 | 1.0000 | 1.000000 | y | PB108A-CAL,,» | 1,,1.0uL CS-0.2/» | y |
| 2 c | ULTC | PB6C_435B | 3 | 1 | 1668A-C8 | 1.0000 | 1.0000 | 1.000000 | y | PB108C-CAL,,» | 1,,1.0uL CS-1 | y |
| 3 c | ULTC | PB6C_435B | 8 | 1 | 1668A-C8 | 5.0000 | 1.0000 | 1.000000 | y | PB108D-CAL,,» | 1,,1.0uL CS-2 | y |
| 4 c | ULTC | PB6C_435B | 7 | 1 | 1668A-C8 | 50.0000 | 1.0000 | 1.000000 | y | PB108E-CAL,,» | 1,,1.0uL CS-3 | y |
| 5 c | ULTC | PB6C_435B | 6 | 1 | 1668A-C8 | 400.0000 | 1.0000 | 1.000000 | y | PB108F-CAL,,» | 1,,1.0uL CS-4 | y |
| 6 c | ULTC | PB6C_435B | 5 | 1 | 1668A-C8 | 2000.00» | 1.0000 | 1.000000 | y | PB108G-CAL,,» | 1,,1.0uL CS-5 | y |
| 7 c | ULTC | PB6C_435B | 10 | 1 | 1668A-C8 | 6000.00» | 1.0000 | 1.000000 | y | PB108H-CAL,,» | 1,,1.0uL CS-6 | y |
| 8 q | ULTC | PB6C_435B | 9 | 1 | 1668A-CV8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Win/Res | y |

Sv: JA 29-Nov-16

PV'd by PL 28Nov16

**AXYS METHOD MLA-010 Rev 11**

**Form 3A**
**PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016

**Instrument ID:** HR GC/MS

**GC Column ID:** SPB OCTYL

**CS0 Data Filename:** N/A

**CS1 Data Filename:** PB6C_435B S: 3

**CS2 Data Filename:** PB6C_435B S: 8

**CS3 Data Filename:** PB6C_435B S: 7

**CS4 Data Filename:** PB6C_435B S: 6

**CS5 Data Filename:** PB6C_435B S: 5

**CS6 Data Filename:** PB6C_435B S: 10

| | | | | RELATIVE RESPONSE (RR) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **IUPAC NO.** | **CO-ELUTIONS** | **LAB FLAG[1]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **MEAN RR** | **CV[2] (%RSD)** |
| **2-MoCB** | 1 | | | | 1.06 | 1.09 | 1.11 | 1.12 | 1.07 | | 1.09 | 2.26 |
| **4-MoCB** | 3 | | | | 1.04 | 1.08 | 1.11 | 1.11 | 1.13 | | 1.09 | 3.31 |
| **2,2'-DiCB** | 4 | | | | 0.95 | 1.01 | 1.03 | 1.05 | 1.08 | | 1.02 | 4.89 |
| **4,4'-DiCB** | 15 | | | | 0.87 | 0.89 | 0.94 | 0.96 | 0.98 | | 0.93 | 5.05 |
| **2,2',6-TriCB** | 19 | | | | 0.91 | 0.95 | 1.00 | 1.01 | 1.04 | 1.01 | 0.99 | 4.73 |
| **3,4,4'-TriCB** | 37 | | | | 0.95 | 0.98 | 1.02 | 1.05 | 1.06 | 1.00 | 1.01 | 3.97 |
| **2,2',6,6'-TeCB** | 54 | | | | 0.99 | 1.02 | 1.04 | 1.06 | 1.09 | 1.04 | 1.04 | 3.28 |
| **3,3',4,4'-TeCB** | 77 | | | | 0.92 | 0.96 | 0.98 | 1.06 | 1.08 | 1.04 | 1.01 | 6.08 |
| **3,4,4',5-TeCB** | 81 | | | | 0.97 | 0.98 | 1.02 | 1.06 | 1.08 | 1.03 | 1.02 | 4.27 |
| **2,2',4,6,6'-PeCB** | 104 | | | | 0.98 | 1.02 | 1.06 | 1.06 | 1.11 | 1.06 | 1.05 | 4.35 |
| **2,3,3',4,4'-PeCB** | 105 | | | | 0.91 | 0.99 | 1.02 | 1.05 | 1.08 | 1.06 | 1.02 | 6.15 |
| **2,3,4,4',5-PeCB** | 114 | | | | 0.97 | 1.02 | 1.06 | 1.10 | 1.13 | 1.10 | 1.06 | 5.79 |
| **2,3',4,4',5-PeCB** | 118 | | | | 0.93 | 0.98 | 1.03 | 1.05 | 1.08 | 1.07 | 1.02 | 5.53 |
| **2',3,4,4',5-PeCB** | 123 | | | | 0.90 | 0.93 | 0.96 | 1.00 | 1.03 | 1.01 | 0.97 | 5.21 |
| **3,3',4,4',5-PeCB** | 126 | | | | 0.94 | 0.98 | 1.04 | 1.06 | 1.09 | 1.07 | 1.03 | 5.56 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | | 0.97 | 0.96 | 0.99 | 1.03 | 1.07 | 1.02 | 1.01 | 3.97 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | | 1.01 | 1.04 | 1.08 | 1.11 | 1.13 | 1.10 | 1.08 | 4.27 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | | 1.02 | 1.07 | 1.10 | 1.13 | 1.17 | 1.14 | 1.11 | 5.11 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | | 0.92 | 0.99 | 1.01 | 1.06 | 1.08 | 1.06 | 1.02 | 5.97 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | | 0.88 | 0.92 | 0.95 | 0.97 | 1.01 | 0.97 | 0.95 | 4.72 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | | 0.96 | 0.96 | 1.00 | 1.03 | 1.04 | 1.04 | 1.00 | 3.76 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | | 0.79 | 0.82 | 0.86 | 0.88 | 0.90 | 0.88 | 0.86 | 4.92 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | | 0.89 | 0.93 | 0.94 | 0.97 | 1.00 | 0.98 | 0.95 | 4.03 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | | 0.81 | 0.91 | 0.93 | 0.97 | 1.00 | 0.97 | 0.93 | 7.24 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | | 0.85 | 0.87 | 0.90 | 0.94 | 0.95 | 0.94 | 0.91 | 4.34 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | | 0.97 | 0.96 | 1.01 | 1.05 | 1.06 | 1.05 | 1.02 | 4.30 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) For contract CV specifications, see Section 10.4.4, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bjorn Arvi_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 3B**
**PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016

**Instrument ID:** HR GC/MS

**GC Column ID:** SPB OCTYL

**CS0 Data Filename:** N/A

**CS1 Data Filename:** PB6C_435B S: 3

**CS2 Data Filename:** PB6C_435B S: 8

**CS3 Data Filename:** PB6C_435B S: 7

**CS4 Data Filename:** PB6C_435B S: 6

**CS5 Data Filename:** PB6C_435B S: 5

**CS6 Data Filename:** PB6C_435B S: 10

| | | | | RELATIVE RESPONSE (RR) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **IUPAC NO. [1]** | **CO-ELUTIONS** | **LAB FLAG[2]** | **CS0** | **CS1** | **CS2** | **CS3** | **CS4** | **CS5** | **CS6** | **MEAN RR** | **CV[3] (%RSD)** |
| **13C12-2-MoCB** | 1L | | | | 1.00 | 1.01 | 1.02 | 1.05 | 1.08 | 1.08 | 1.04 | 3.54 |
| **13C12-4-MoCB** | 3L | | | | 0.95 | 0.95 | 0.99 | 1.04 | 1.05 | 1.10 | 1.01 | 5.92 |
| **13C12-2,2'-DiCB** | 4L | | | | 0.65 | 0.65 | 0.66 | 0.68 | 0.67 | 0.69 | 0.67 | 2.51 |
| **13C12-4,4'-DiCB** | 15L | | | | 1.02 | 1.02 | 1.07 | 1.12 | 1.14 | 1.19 | 1.09 | 6.29 |
| **13C12-2,2',6-TriCB** | 19L | | | | 0.58 | 0.58 | 0.59 | 0.60 | 0.61 | 0.62 | 0.60 | 2.74 |
| **13C12-3,4,4'-TriCB** | 37L | | | | 1.58 | 1.60 | 1.62 | 1.74 | 1.80 | 1.94 | 1.71 | 8.24 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | | 1.37 | 1.40 | 1.37 | 1.36 | 1.42 | 1.49 | 1.40 | 3.59 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | | 1.34 | 1.36 | 1.40 | 1.45 | 1.46 | 1.58 | 1.43 | 6.16 |
| **13C12-3,4,4',5-TeCB** | 81L | | | | 1.27 | 1.31 | 1.32 | 1.41 | 1.45 | 1.56 | 1.39 | 7.92 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | | 1.40 | 1.44 | 1.41 | 1.46 | 1.47 | 1.65 | 1.47 | 6.12 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | | 1.20 | 1.21 | 1.25 | 1.34 | 1.32 | 1.45 | 1.29 | 7.26 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | | 1.15 | 1.16 | 1.19 | 1.29 | 1.32 | 1.46 | 1.26 | 9.66 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | | 1.20 | 1.22 | 1.24 | 1.33 | 1.36 | 1.46 | 1.30 | 7.55 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | | 1.22 | 1.23 | 1.28 | 1.34 | 1.37 | 1.48 | 1.32 | 7.41 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | | 1.08 | 1.08 | 1.13 | 1.23 | 1.22 | 1.37 | 1.19 | 9.52 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | | 1.64 | 1.65 | 1.67 | 1.64 | 1.81 | 2.04 | 1.74 | 9.12 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | | 1.19 | 1.18 | 1.21 | 1.29 | 1.39 | 1.64 | 1.32 | 13.3 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | | 1.17 | 1.17 | 1.19 | 1.24 | 1.30 | 1.51 | 1.26 | 10.2 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | | 1.15 | 1.13 | 1.16 | 1.24 | 1.29 | 1.57 | 1.26 | 13.1 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | | 2.28 | 2.42 | 2.33 | 2.35 | 2.62 | 3.01 | 2.50 | 11.0 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | | 1.44 | 1.49 | 1.50 | 1.57 | 1.70 | 2.07 | 1.63 | 14.4 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | | 2.21 | 2.28 | 2.22 | 2.19 | 2.36 | 2.65 | 2.32 | 7.53 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | | 1.38 | 1.38 | 1.37 | 1.47 | 1.60 | 1.94 | 1.52 | 14.4 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | | 1.01 | 1.01 | 1.01 | 1.06 | 1.15 | 1.39 | 1.10 | 13.6 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | | 1.35 | 1.37 | 1.35 | 1.40 | 1.53 | 1.76 | 1.46 | 11.1 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | | 1.31 | 1.27 | 1.26 | 1.32 | 1.46 | 1.71 | 1.39 | 12.6 |
| **CLEAN-UP STANDARD** | | | | | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | | 1.68 | 1.71 | 1.69 | 1.71 | 1.68 | 1.68 | 1.69 | 0.69 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | | 1.25 | 1.25 | 1.29 | 1.34 | 1.34 | 1.39 | 1.31 | 4.42 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | | 0.99 | 0.99 | 0.98 | 0.97 | 1.01 | 0.98 | 0.99 | 1.38 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) For contract CV specifications, see Section 10.4.4, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bjorn Arvi_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 3C**
**PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016

**Instrument ID:** HR GC/MS

**GC Column ID:** SPB OCTYL

**CS0 Data Filename:** N/A
**CS1 Data Filename:** PB6C_435B S: 3
**CS2 Data Filename:** PB6C_435B S: 8
**CS3 Data Filename:** PB6C_435B S: 7
**CS4 Data Filename:** PB6C_435B S: 6
**CS5 Data Filename:** PB6C_435B S: 5
**CS6 Data Filename:** PB6C_435B S: 10

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG[1] | M/Z's FORMING RATIO [2] | ION ABUNDANCE RATIO CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | QC LIMITS [2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | **M/M+2** | | 3.22 | 3.21 | 3.17 | 3.15 | 2.91 | | 2.66-3.60 |
| **4-MoCB** | 3 | | | **M/M+2** | | 3.26 | 3.22 | 3.16 | 3.15 | 3.11 | | 2.66-3.60 |
| **2,2'-DiCB** | 4 | | | **M/M+2** | | 1.50 | 1.60 | 1.55 | 1.53 | 1.55 | | 1.33-1.79 |
| **4,4'-DiCB** | 15 | | | **M/M+2** | | 1.62 | 1.60 | 1.54 | 1.57 | 1.57 | | 1.33-1.79 |
| **2,2',6-TriCB** | 19 | | | **M/M+2** | | 1.03 | 1.12 | 1.06 | 1.05 | 1.05 | 1.05 | 0.88-1.20 |
| **3,4,4'-TriCB** | 37 | | | **M/M+2** | | 1.08 | 1.03 | 1.04 | 1.04 | 1.04 | 1.03 | 0.88-1.20 |
| **2,2',6,6'-TeCB** | 54 | | | **M/M+2** | | 0.79 | 0.81 | 0.79 | 0.80 | 0.79 | 0.81 | 0.65-0.89 |
| **3,3',4,4'-TeCB** | 77 | | | **M/M+2** | | 0.84 | 0.78 | 0.78 | 0.79 | 0.79 | 0.79 | 0.65-0.89 |
| **3,4,4',5-TeCB** | 81 | | | **M/M+2** | | 0.77 | 0.78 | 0.78 | 0.79 | 0.78 | 0.78 | 0.65-0.89 |
| **2,2',4,6,6'-PeCB** | 104 | | | **M+2/M+4** | | 1.65 | 1.56 | 1.58 | 1.54 | 1.58 | 1.55 | 1.32-1.78 |
| **2,3,3',4,4'-PeCB** | 105 | | | **M+2/M+4** | | 1.47 | 1.54 | 1.56 | 1.55 | 1.56 | 1.55 | 1.32-1.78 |
| **2,3,4,4',5-PeCB** | 114 | | | **M+2/M+4** | | 1.51 | 1.66 | 1.57 | 1.55 | 1.55 | 1.56 | 1.32-1.78 |
| **2,3',4,4',5-PeCB** | 118 | | | **M+2/M+4** | | 1.61 | 1.56 | 1.56 | 1.55 | 1.56 | 1.56 | 1.32-1.78 |
| **2',3,4,4',5-PeCB** | 123 | | | **M+2/M+4** | | 1.56 | 1.59 | 1.55 | 1.55 | 1.56 | 1.57 | 1.32-1.78 |
| **3,3',4,4',5-PeCB** | 126 | | | **M+2/M+4** | | 1.49 | 1.58 | 1.57 | 1.56 | 1.55 | 1.56 | 1.32-1.78 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | **M+2/M+4** | | 1.21 | 1.23 | 1.25 | 1.24 | 1.26 | 1.25 | 1.05-1.43 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | **M+2/M+4** | | 1.31 | 1.26 | 1.25 | 1.25 | 1.26 | 1.24 | 1.05-1.43 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | **M+2/M+4** | | 1.36 | 1.31 | 1.25 | 1.25 | 1.26 | 1.26 | 1.05-1.43 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | **M+2/M+4** | | 1.25 | 1.27 | 1.26 | 1.25 | 1.25 | 1.26 | 1.05-1.43 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | **M+2/M+4** | | 1.11 | 1.02 | 1.04 | 1.03 | 1.03 | 1.03 | 0.89-1.21 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | **M+2/M+4** | | 0.93 | 0.99 | 1.03 | 1.03 | 1.04 | 1.04 | 0.89-1.21 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | **M+2/M+4** | | 0.87 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.76-1.02 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | **M+2/M+4** | | 0.90 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.76-1.02 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | **M+2/M+4** | | 0.77 | 0.80 | 0.78 | 0.79 | 0.78 | 0.78 | 0.65-0.89 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | **M+2/M+4** | | 0.75 | 0.79 | 0.78 | 0.78 | 0.78 | 0.79 | 0.65-0.89 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | **M+4/M+6** | | 1.22 | 1.19 | 1.17 | 1.17 | 1.17 | 1.17 | 0.99-1.33 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bjorn Arvi_____

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Report Filename: 1668_PCB1668_27-Nov-2016_PB6C__Form3C_GS69731.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 3D**
**PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016

**Instrument ID:** HR GC/MS

**GC Column ID:** SPB OCTYL

**CS0 Data Filename:** N/A
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**CS2 Data Filename:** PB6C_435B S: 8
**CS3 Data Filename:** PB6C_435B S: 7
**CS4 Data Filename:** PB6C_435B S: 6
**CS5 Data Filename:** PB6C_435B S: 5
**CS6 Data Filename:** PB6C_435B S: 10

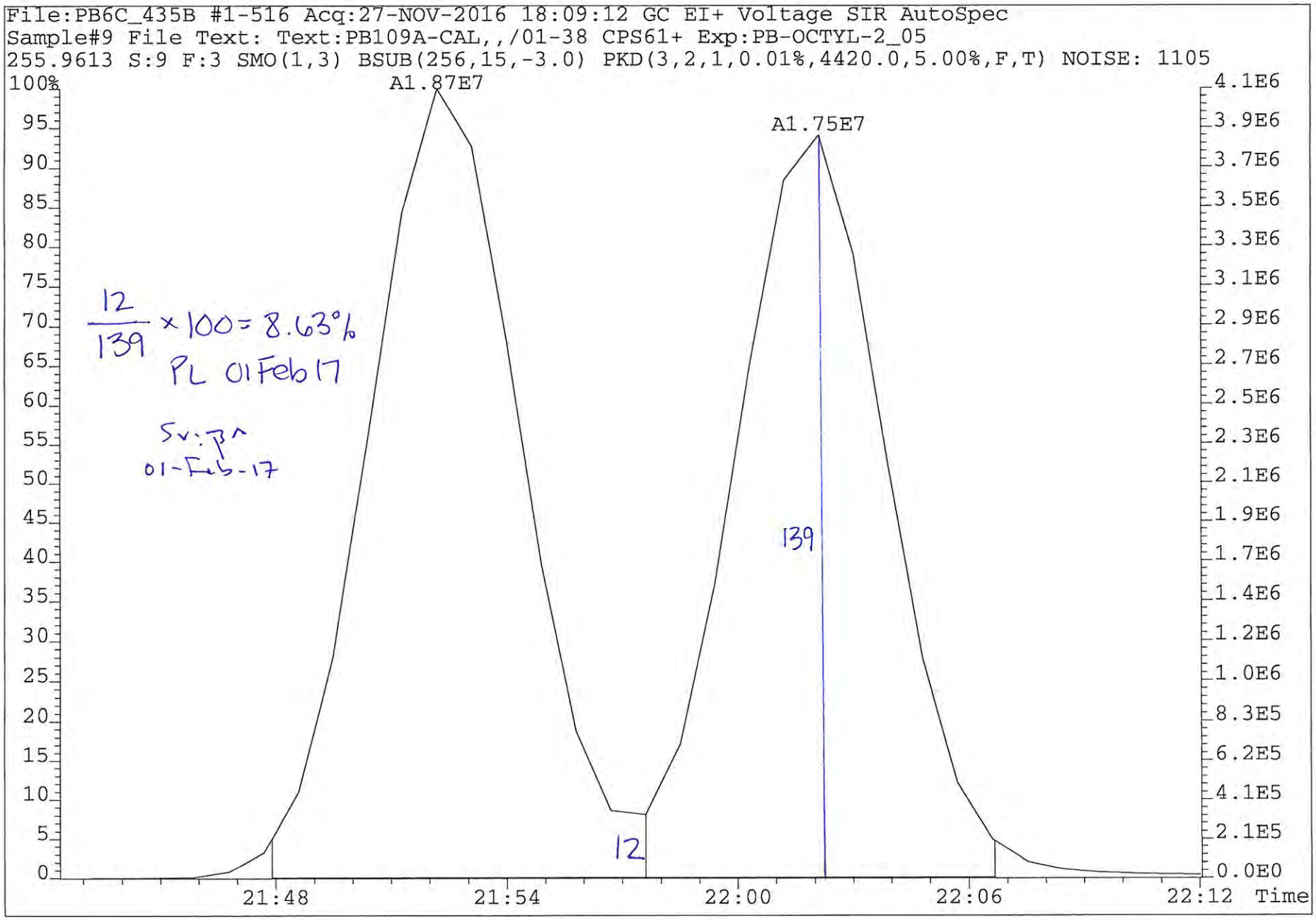
| LABELED COMPOUND | IUPAC NO.[1] | CO-ELUTIONS | LAB FLAG[2] | M/Z's FORMING RATIO [3] | ION ABUNDANCE RATIO CS0 | CS1 | CS2 | CS3 | CS4 | CS5 | CS6 | QC LIMITS [3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | **M/M+2** | | 3.19 | 3.19 | 3.20 | 3.19 | 3.15 | 3.14 | 2.66-3.60 |
| **13C12-4-MoCB** | 3L | | | **M/M+2** | | 3.15 | 3.15 | 3.17 | 3.14 | 3.10 | 3.10 | 2.66-3.60 |
| **13C12-2,2'-DiCB** | 4L | | | **M/M+2** | | 1.60 | 1.59 | 1.59 | 1.59 | 1.57 | 1.61 | 1.33-1.79 |
| **13C12-4,4'-DiCB** | 15L | | | **M/M+2** | | 1.60 | 1.58 | 1.59 | 1.56 | 1.56 | 1.57 | 1.33-1.79 |
| **13C12-2,2',6-TriCB** | 19L | | | **M/M+2** | | 1.03 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 0.88-1.20 |
| **13C12-3,4,4'-TriCB** | 37L | | | **M/M+2** | | 1.04 | 1.04 | 1.05 | 1.06 | 1.05 | 1.07 | 0.88-1.20 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | **M/M+2** | | 0.80 | 0.79 | 0.79 | 0.80 | 0.79 | 0.81 | 0.65-0.89 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | **M/M+2** | | 0.78 | 0.79 | 0.77 | 0.77 | 0.77 | 0.79 | 0.65-0.89 |
| **13C12-3,4,4',5-TeCB** | 81L | | | **M/M+2** | | 0.77 | 0.78 | 0.78 | 0.77 | 0.78 | 0.79 | 0.65-0.89 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | **M+2/M+4** | | 1.55 | 1.57 | 1.56 | 1.57 | 1.53 | 1.61 | 1.32-1.78 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | **M+2/M+4** | | 1.63 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 | 1.32-1.78 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | **M+2/M+4** | | 1.60 | 1.58 | 1.59 | 1.61 | 1.58 | 1.58 | 1.32-1.78 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | **M+2/M+4** | | 1.58 | 1.58 | 1.55 | 1.58 | 1.57 | 1.57 | 1.32-1.78 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | **M+2/M+4** | | 1.59 | 1.57 | 1.59 | 1.58 | 1.57 | 1.56 | 1.32-1.78 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | **M+2/M+4** | | 1.57 | 1.58 | 1.57 | 1.58 | 1.58 | 1.56 | 1.32-1.78 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | **M+2/M+4** | | 1.25 | 1.24 | 1.25 | 1.25 | 1.24 | 1.25 | 1.05-1.43 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | **M+2/M+4** | | 1.26 | 1.28 | 1.26 | 1.28 | 1.28 | 1.26 | 1.05-1.43 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | **M+2/M+4** | | 1.25 | 1.29 | 1.28 | 1.26 | 1.26 | 1.27 | 1.05-1.43 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | **M+2/M+4** | | 1.26 | 1.27 | 1.29 | 1.27 | 1.28 | 1.27 | 1.05-1.43 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | **M+2/M+4** | | 1.06 | 1.06 | 1.03 | 1.05 | 1.04 | 1.06 | 0.89-1.21 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | **M+2/M+4** | | 1.06 | 1.05 | 1.06 | 1.07 | 1.07 | 1.06 | 0.89-1.21 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | **M+2/M+4** | | 0.92 | 0.90 | 0.91 | 0.90 | 0.90 | 0.90 | 0.76-1.02 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | **M+2/M+4** | | 0.92 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.76-1.02 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | **M+2/M+4** | | 0.79 | 0.81 | 0.78 | 0.80 | 0.79 | 0.81 | 0.65-0.89 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | **M+2/M+4** | | 0.80 | 0.80 | 0.79 | 0.79 | 0.79 | 0.80 | 0.65-0.89 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | **M+4/M+6** | | 1.19 | 1.18 | 1.20 | 1.16 | 1.16 | 1.16 | 0.99-1.33 |
| **CLEAN-UP STANDARD** | | | | | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | **M/M+2** | | 1.05 | 1.05 | 1.07 | 1.05 | 1.04 | 1.05 | 0.88-1.20 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | **M+2/M+4** | | 1.58 | 1.61 | 1.58 | 1.59 | 1.58 | 1.59 | 1.32-1.78 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | **M+2/M+4** | | 1.05 | 1.05 | 1.05 | 1.04 | 1.04 | 1.05 | 0.89-1.21 |

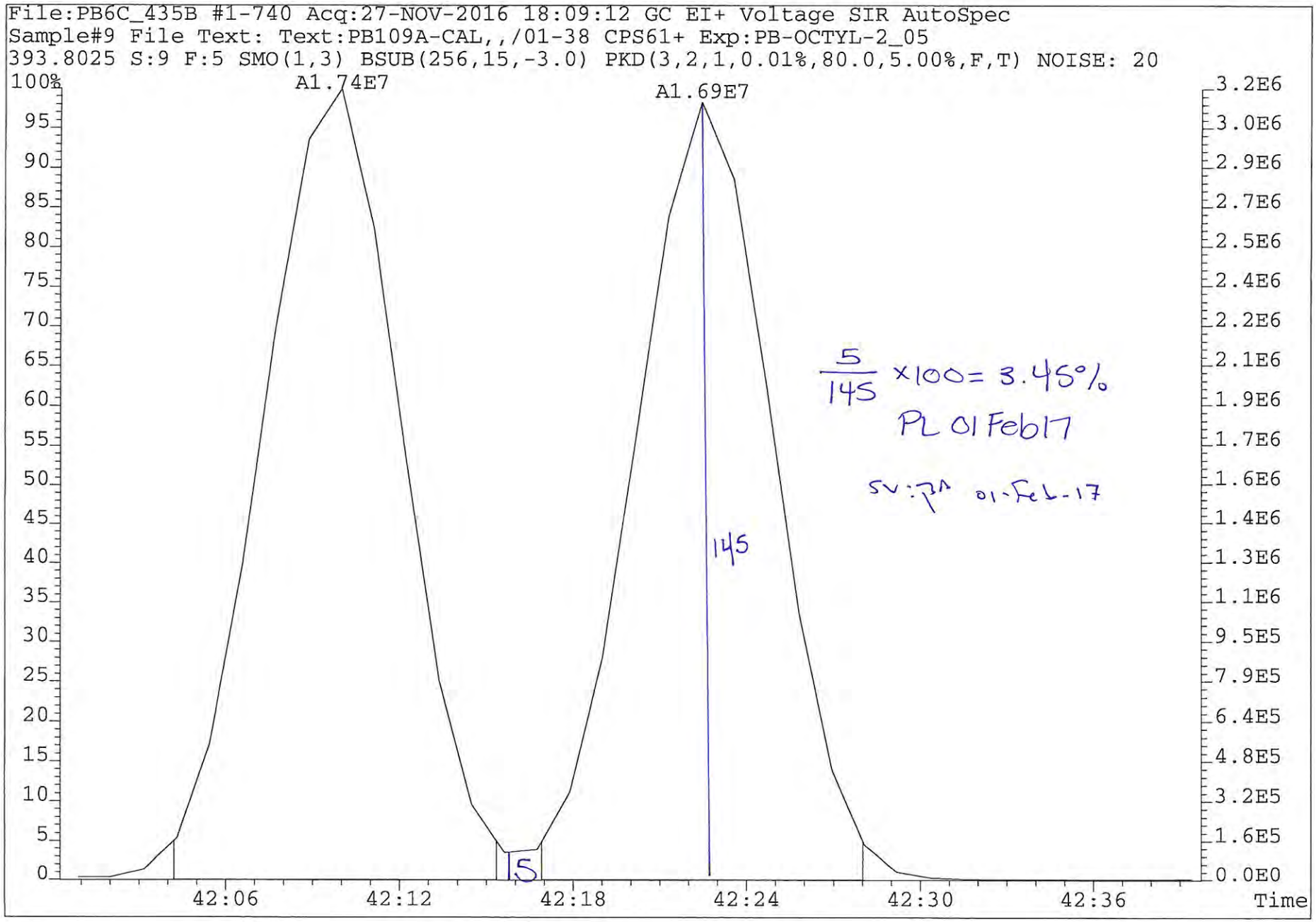
(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Bjorn Arvi_____

For Axys Internal Use Only [ XSL Template: Form16683D.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_27-Nov-2016_PB6C__Form3D_GS69731.html; Workgroup: WG58451; Design ID: 2063 ]


File:PB6C_435B #1-516 Acq:27-NOV-2016 18:09:12 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:PB109A-CAL,,/01-38 CPS61+ Exp:PB-OCTYL-2_05
255.9613 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4420.0,5.00%,F,T) NOISE: 1105
A1.87E7
A1.75E7
139
12
12/139 x 100 = 8.63%
PL 01 Feb 17
SV: P^
01-Feb-17
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
4.1E6
3.9E6
3.7E6
3.5E6
3.3E6
3.1E6
2.9E6
2.7E6
2.5E6
2.3E6
2.1E6
1.9E6
1.7E6
1.4E6
1.2E6
1.0E6
8.3E5
6.2E5
4.1E5
2.1E5
0.0E0
21:48
21:54
22:00
22:06
22:12
Time


File:PB6C_435B #1-740 Acq:27-NOV-2016 18:09:12 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:PB109A-CAL,,/01-38 CPS61+ Exp:PB-OCTYL-2_05
393.8025 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,80.0,5.00%,F,T) NOISE: 20
A1.74E7
A1.69E7
145
5
5/145 x100= 3.45%
PL 01 Feb17
SV: JA 01-Feb-17
Time

www.axysanalytical.com





Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : OCTYL
Serial # : 54277-02A/55632
kPa : 288
Vol injected: 1.0UL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

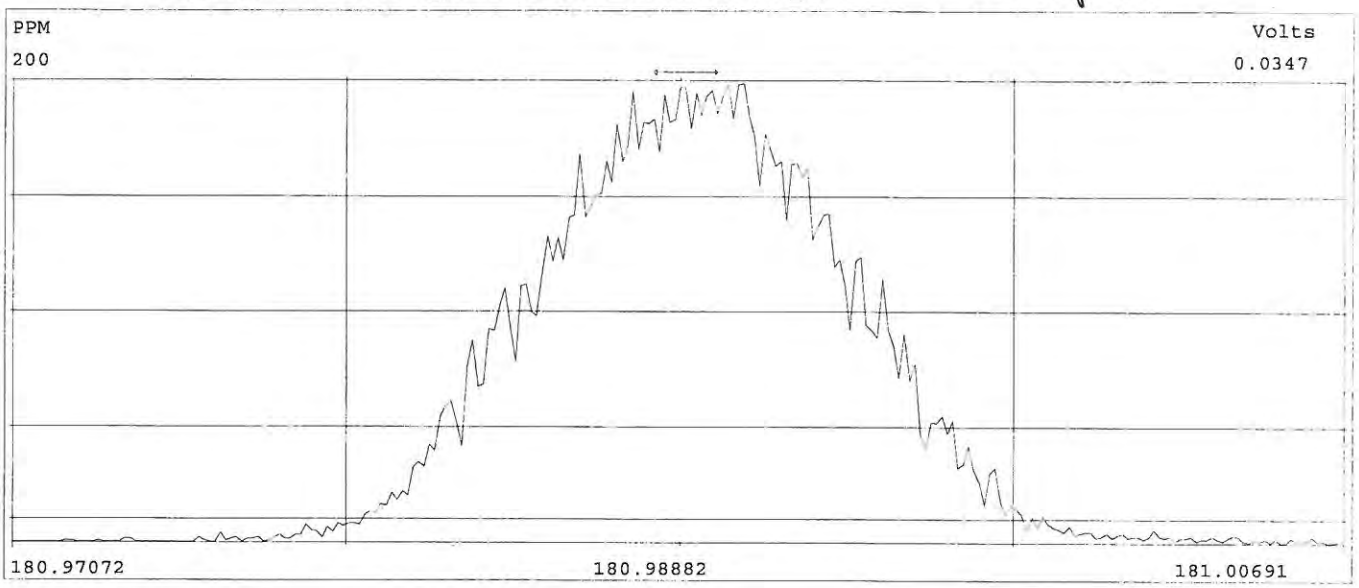
Tune : BA
List : BA
Check :
LIMS :
Logfile:

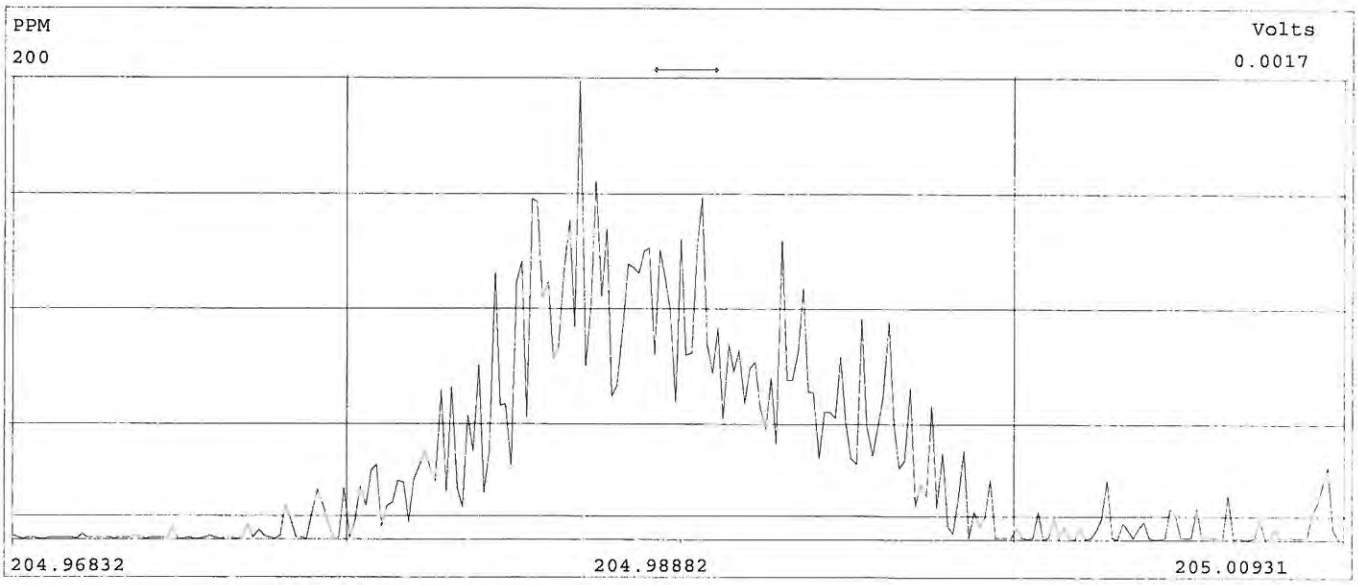
Date -list : 12-APR-2017
-liner : 12-APR-2017
-septum: 12-APR-2017
-guard : 60CM 12-APR-2017
-column: NEW 26-NOV-2016
-t line: NEW 26-NOV-2016

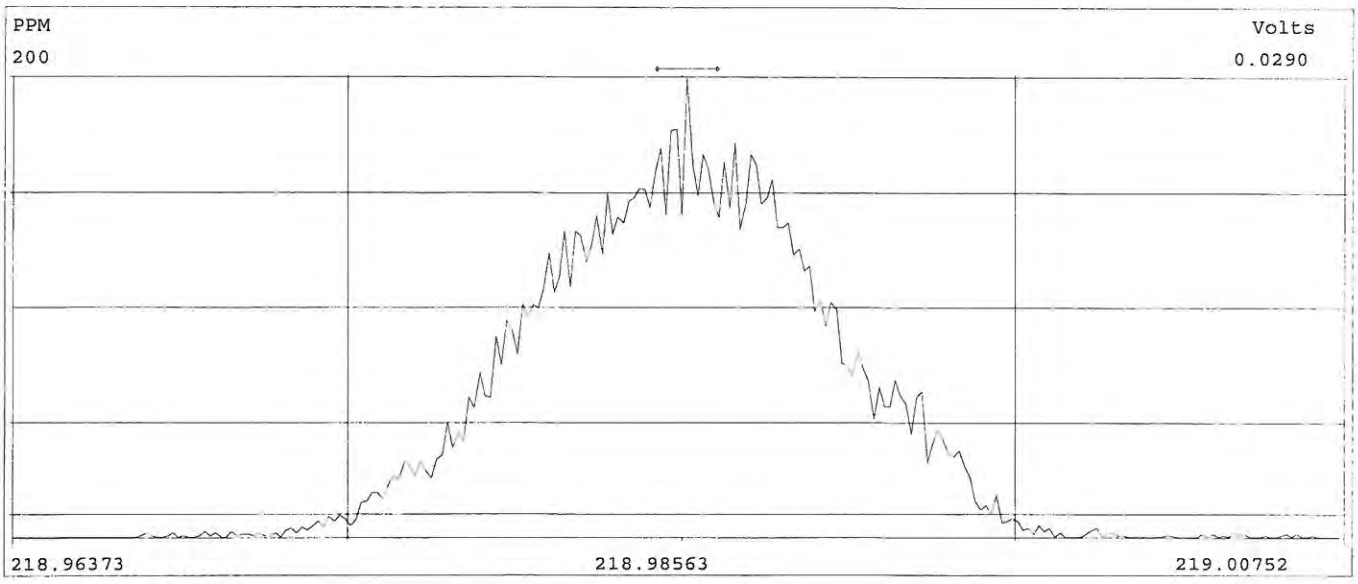
| # | Data file | S | V | Sample Text | Comments | Acquisition Date/Time |
|---|---|---|---|---|---|---|
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| 2 | PB7C_129 | 2 | 2 | WG58451-102,I,SPM | 1,WG58451,1.0/20uL | 12-APR-17 09:11:17 |
| 3 | PB7C_129 | 3 | 3 | PB053A-SUR,,/01 | 1,,1.0uL Inst Blank | 12-APR-17 10:15:33 |
| 4 | PB7C_129 | 4 | 4 | WG58451-101,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 11:19:52 |
| 5 | PB7C_129 | 5 | 5 | WG58451-103,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 12:24:07 |
| 6 | PB7C_129 | 6 | 6 | WG58451-104,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 13:28:20 |
| 7 | PB7C_129 | 7 | 7 | L26851-9,I, | 1,WG58855,1.0/20uL | 12-APR-17 14:32:39 |
| 8 | PB7C_129 | 8 | 8 | L27062-1,, | 1,WG58451,1.0/20uL | 12-APR-17 15:36:54 |
| 9 | PB7C_129 | 9 | 9 | L27062-2,, | 1,WG58451,1.0/20uL | 12-APR-17 16:41:09 |
| 10 | PB7C_129 | 10 | 10 | L27062-3,, | 1,WG58451,1.0/20uL | 12-APR-17 17:45:23 |
| 11 | PB7C_129 | 11 | 11 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 12-APR-17 18:49:36 |

Peak Locate Examination:12-APR-2017:08:03 File:PB7C_129CAL
Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

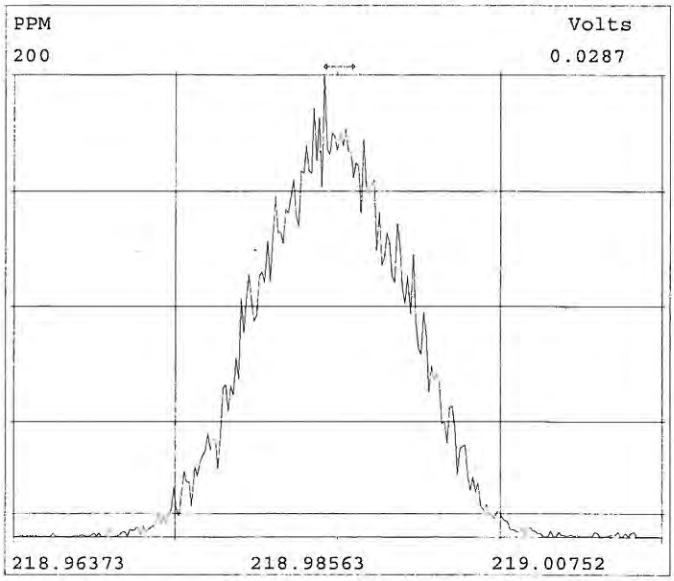
Approved by PA
12-Apr-17

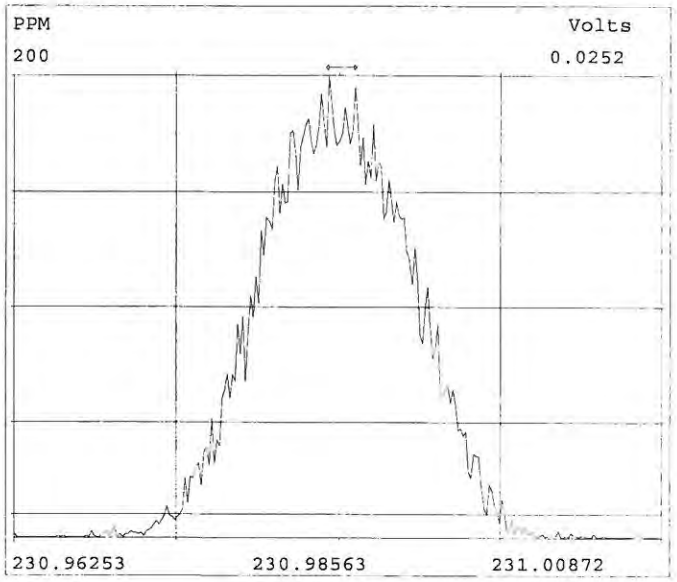


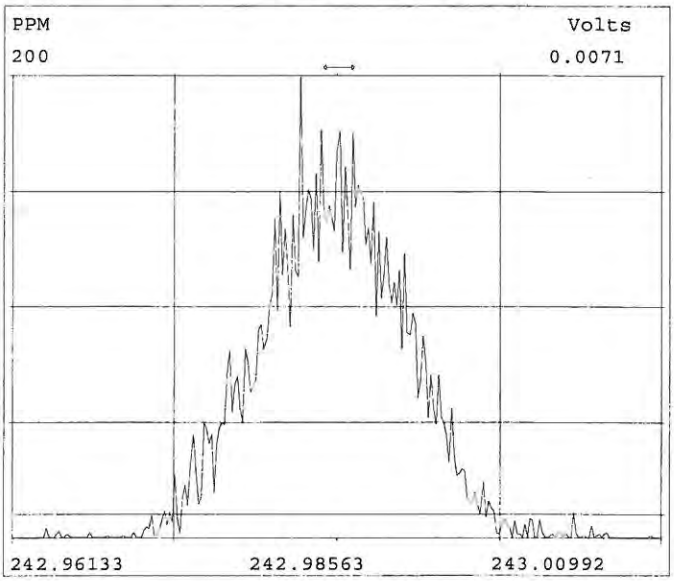



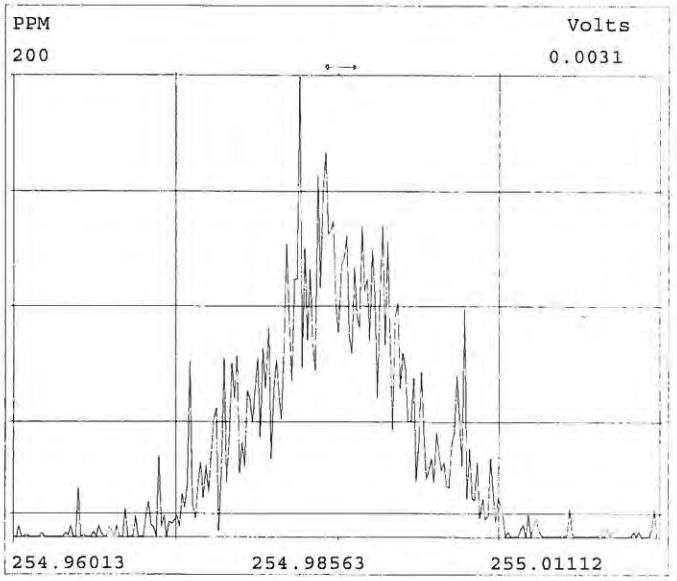



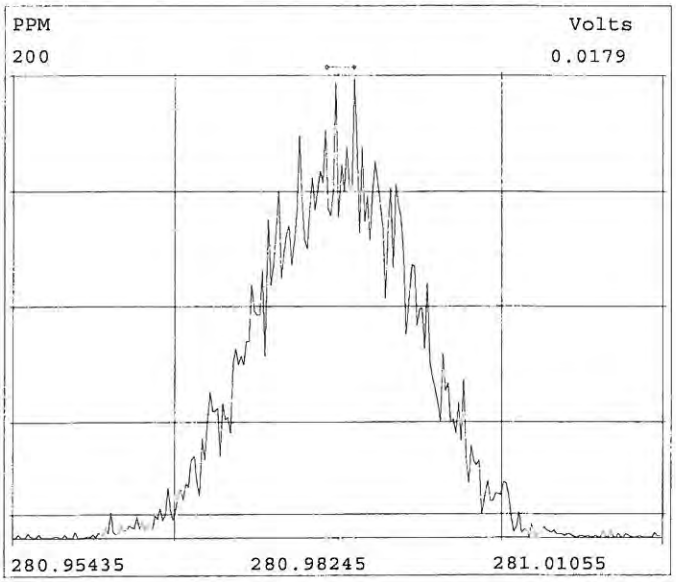
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Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668

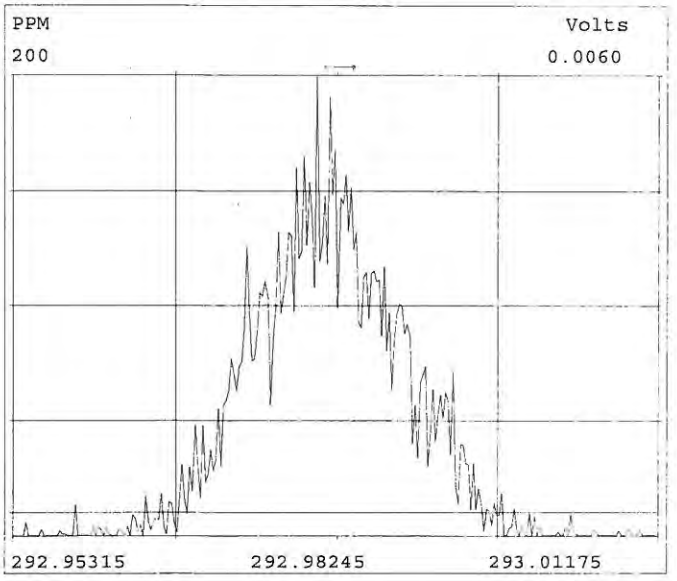


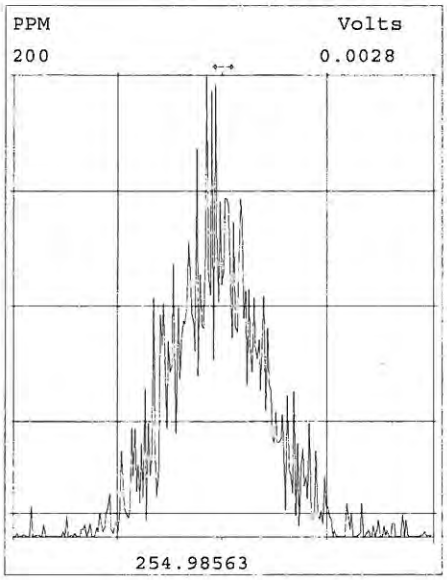



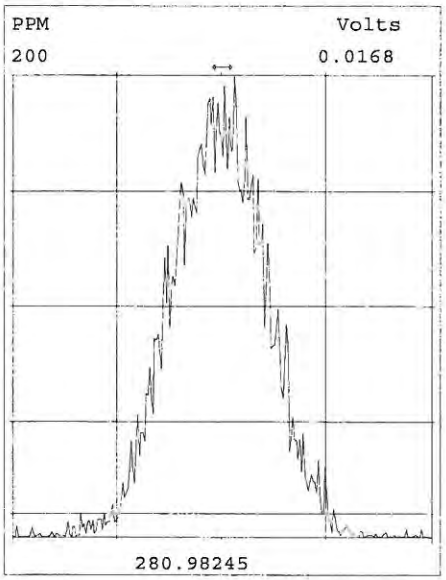



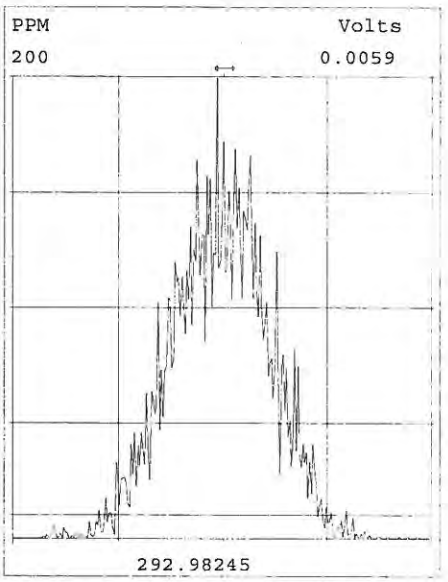



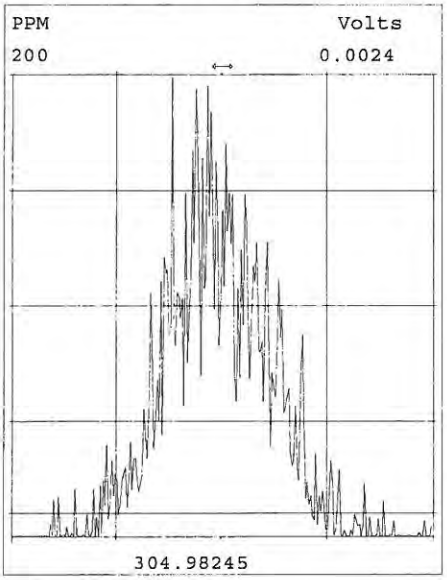



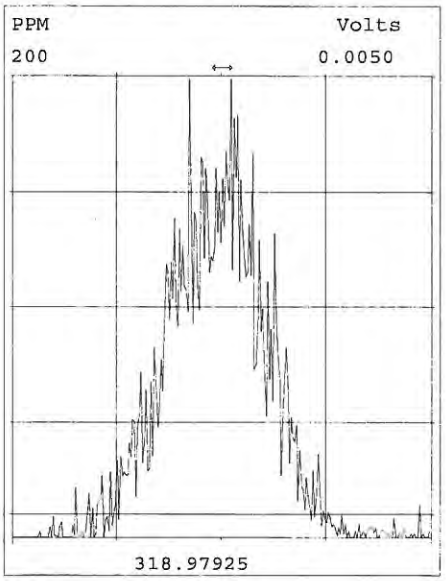
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Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

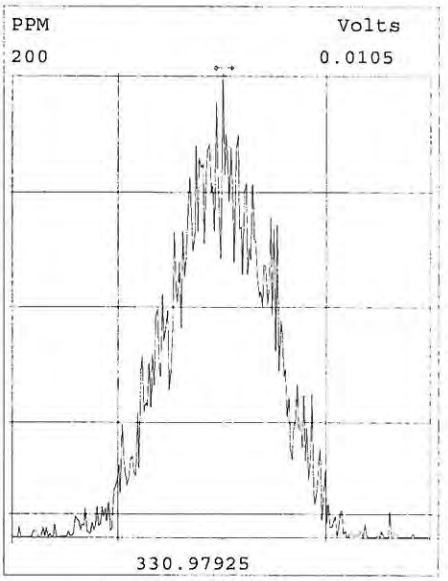


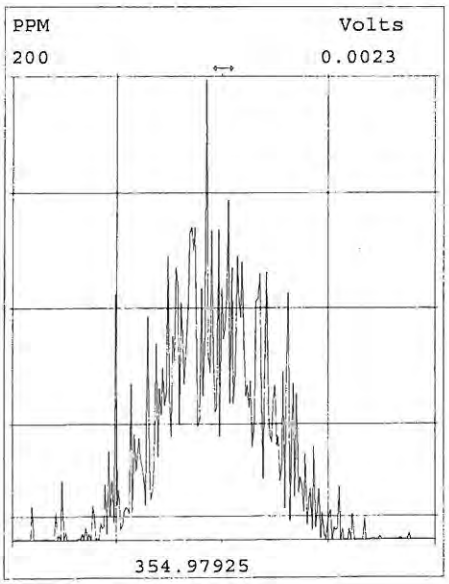



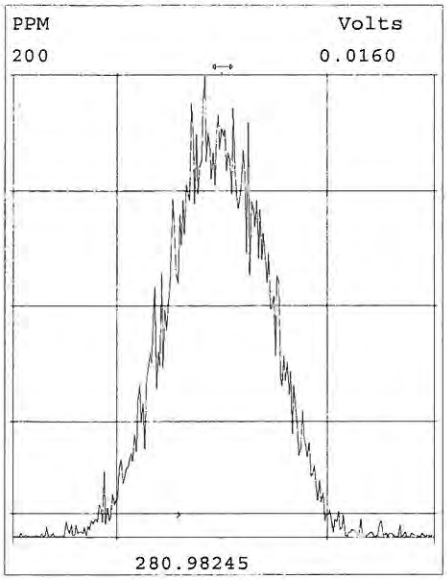



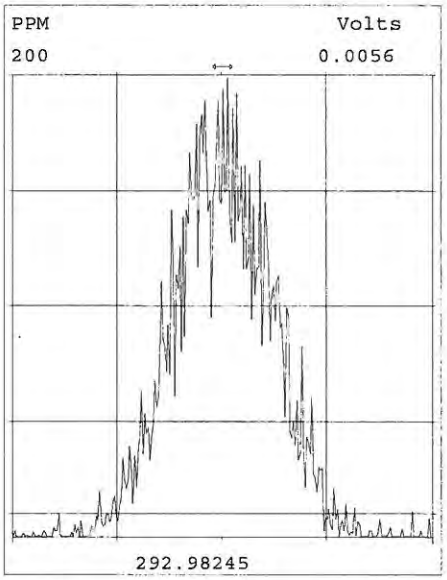



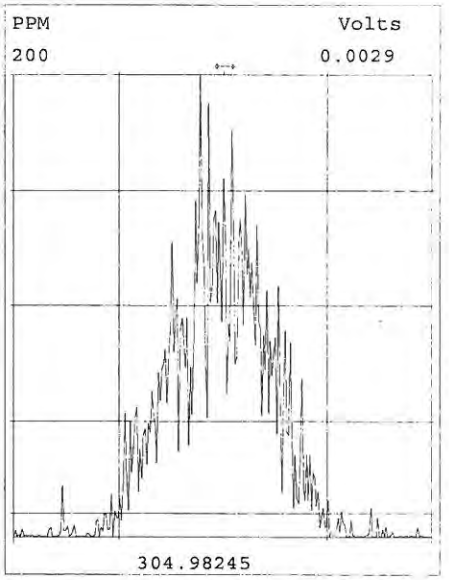



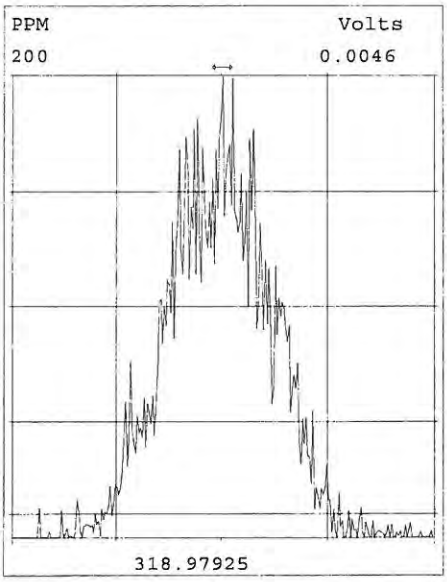



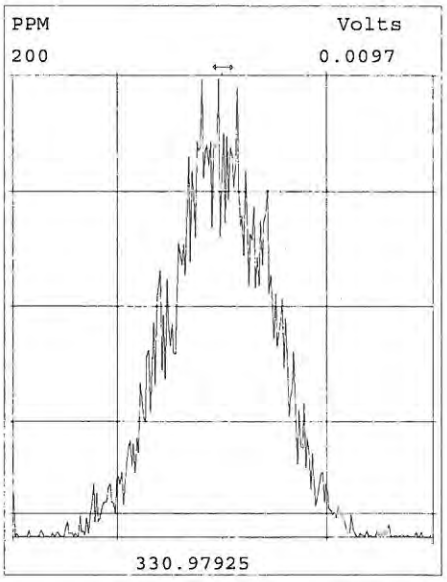
Peak Locate Examination:12-APR-2017:08:04 File:PB7C_129CAL
Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

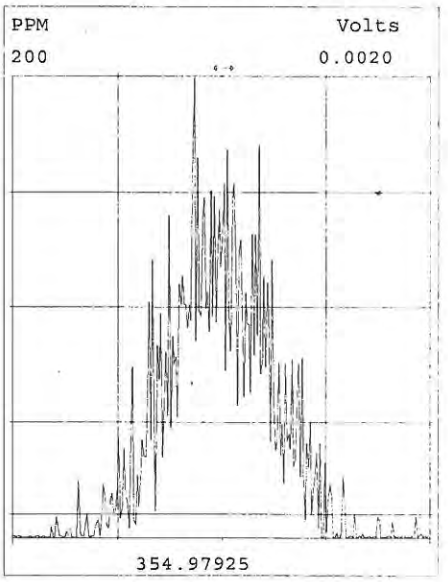


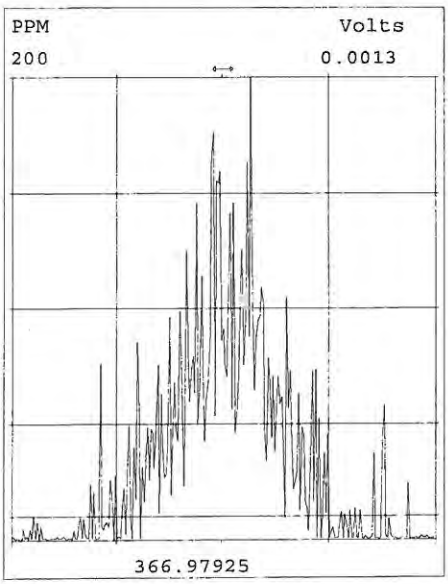



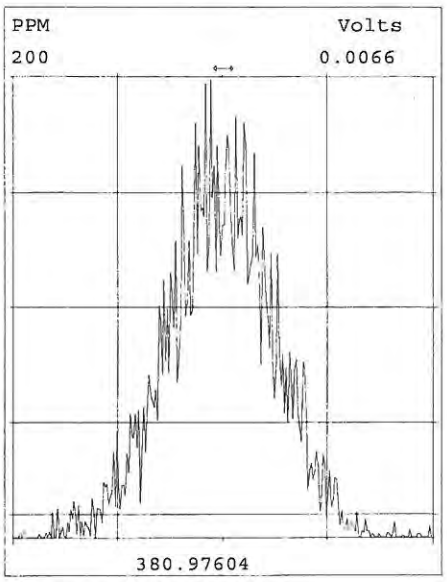



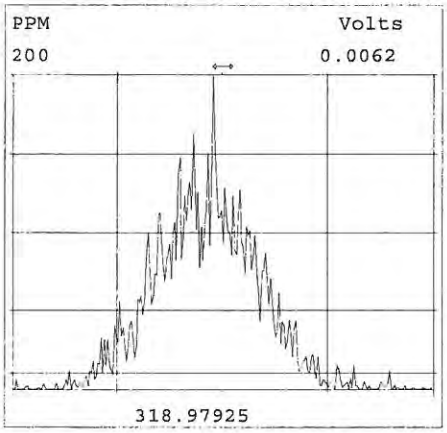



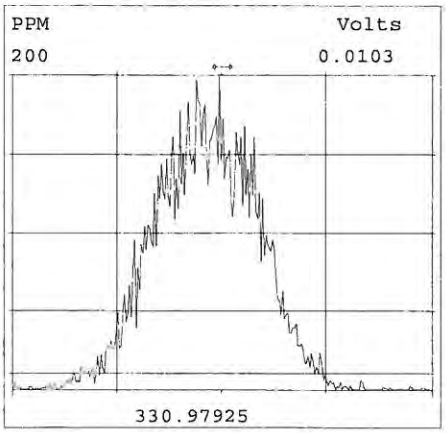



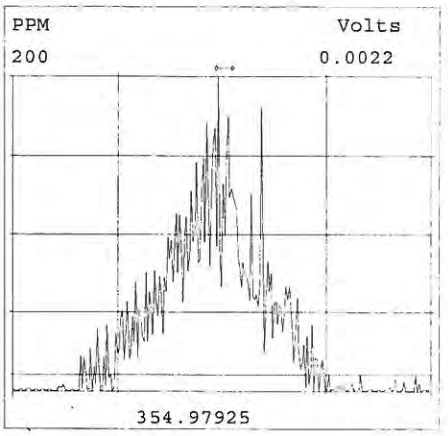



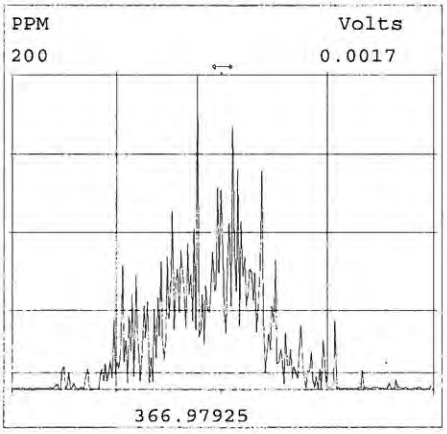



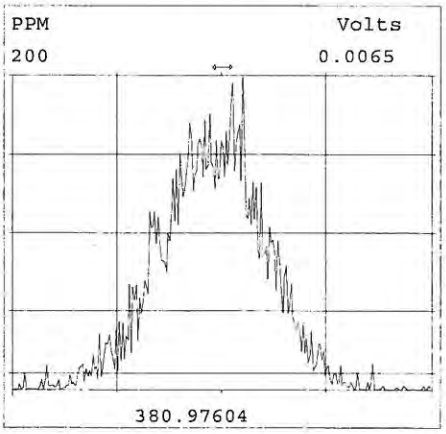
Peak Locate Examination:12-APR-2017:08:05 File:PB7C_129CAL
Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

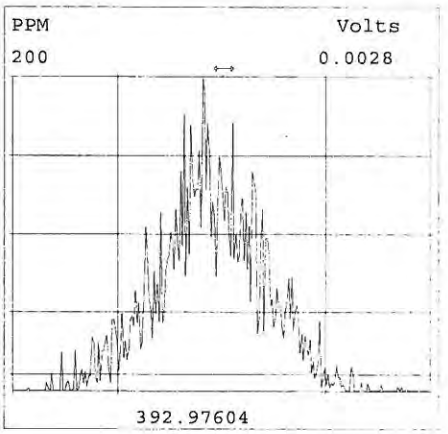


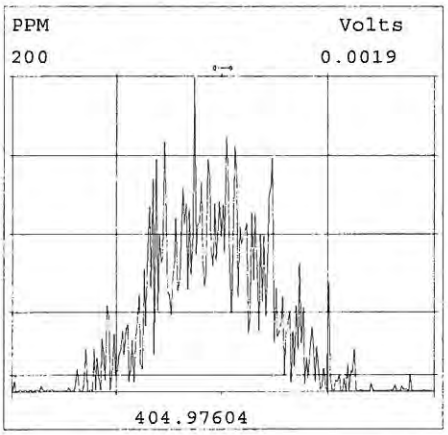



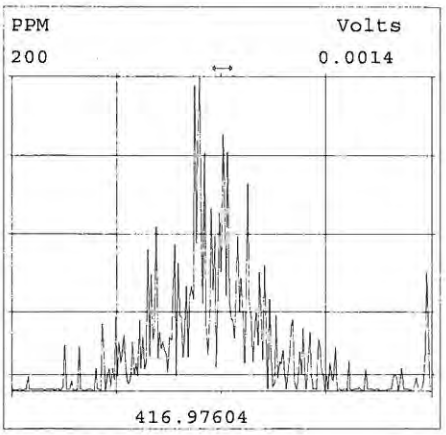



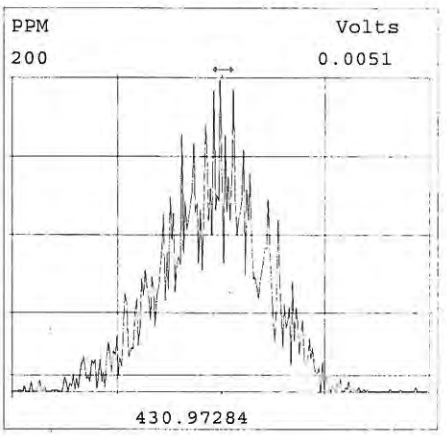



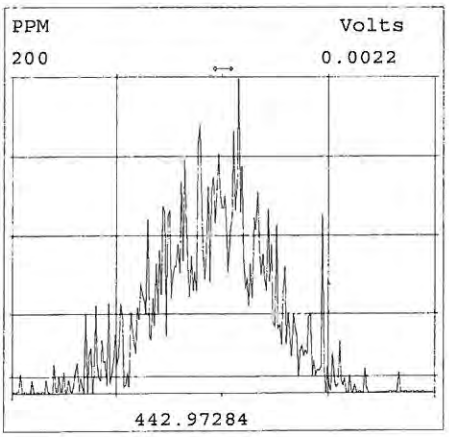



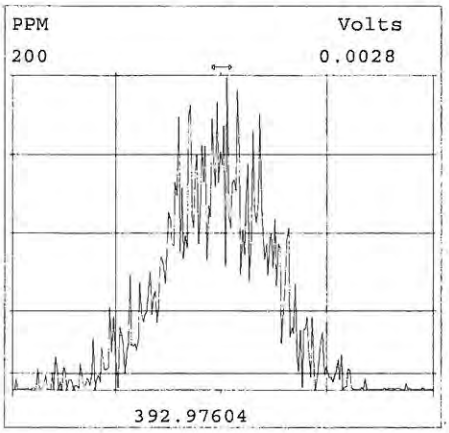



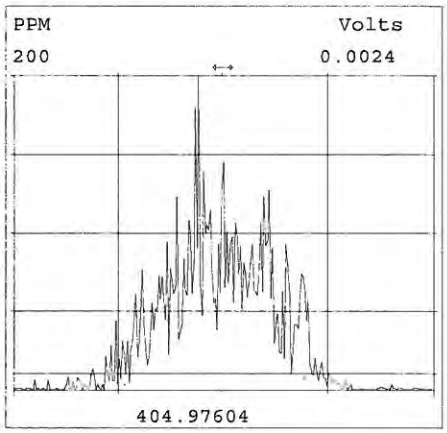



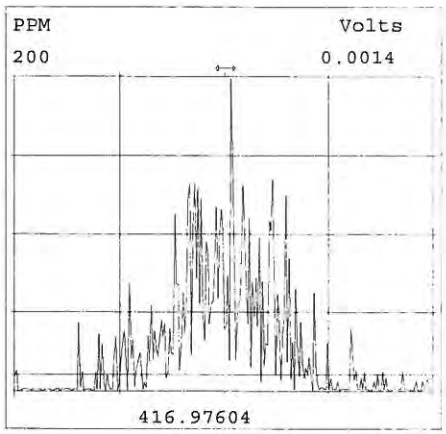



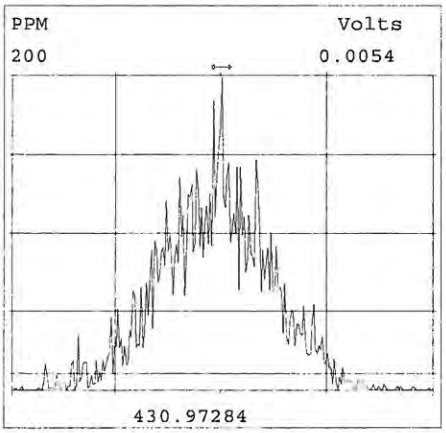



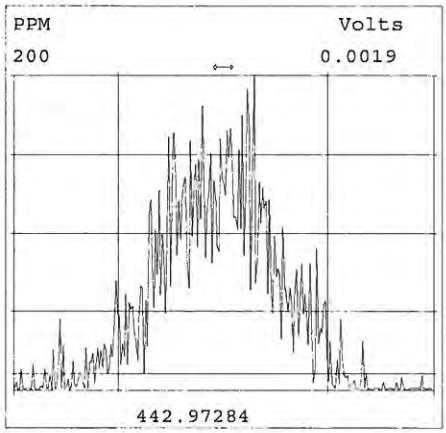
Peak Locate Examination:12-APR-2017:08:06 File:PB7C_129CAL
Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

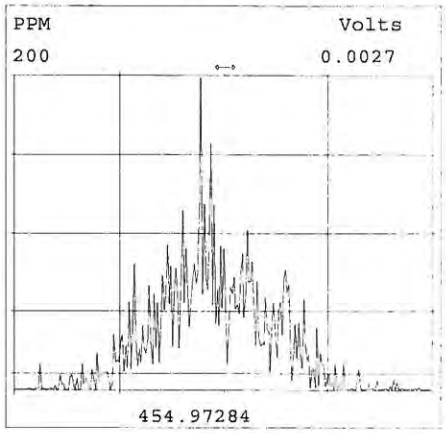


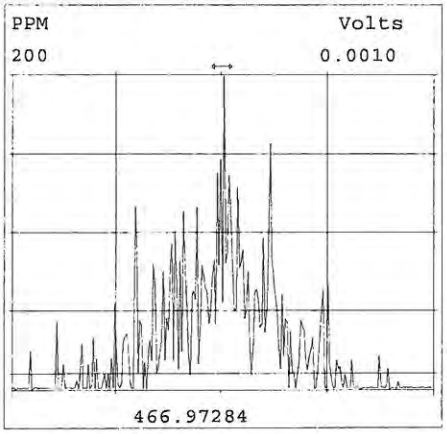



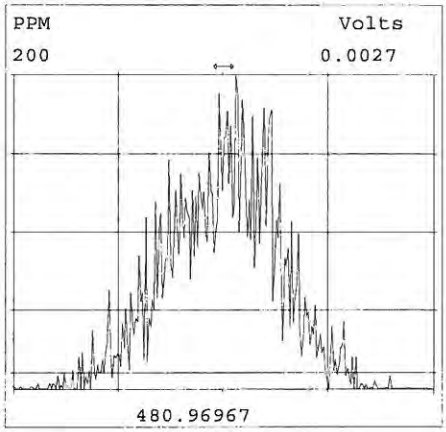



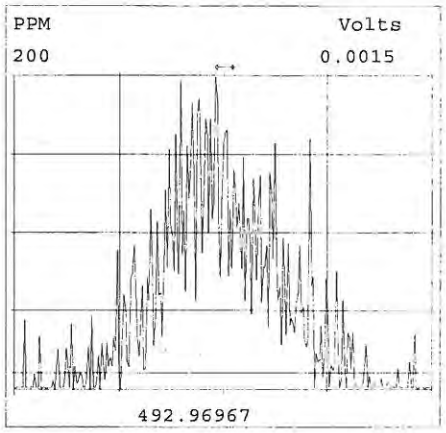



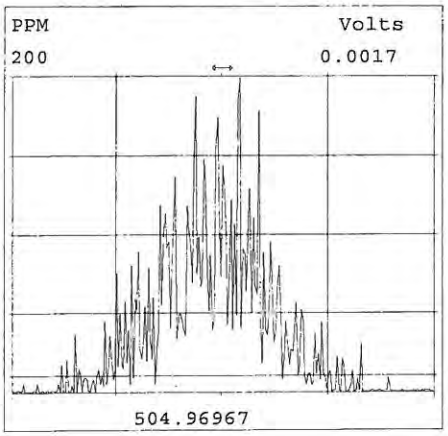



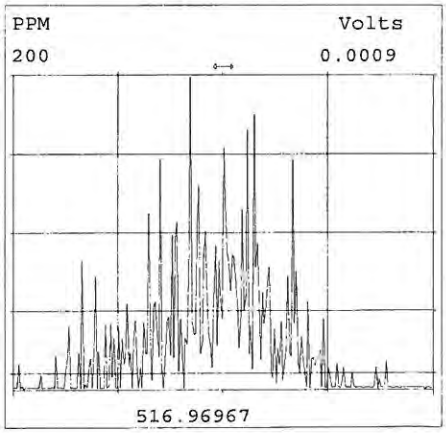



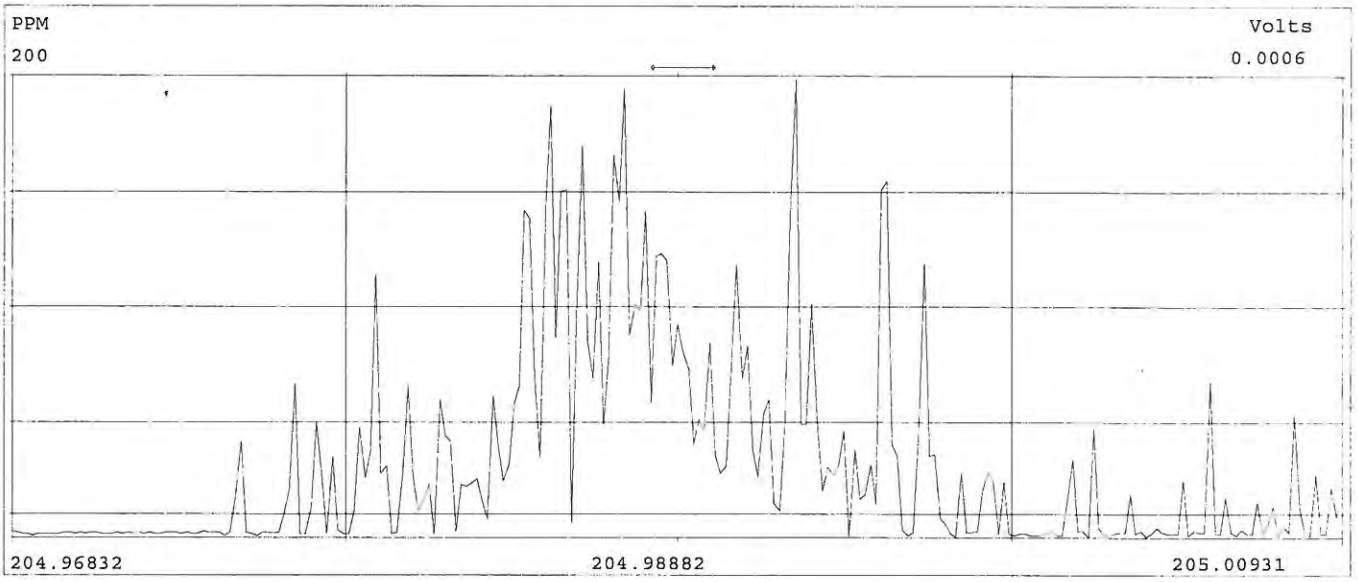



Approved 12-Apr-17 AFW

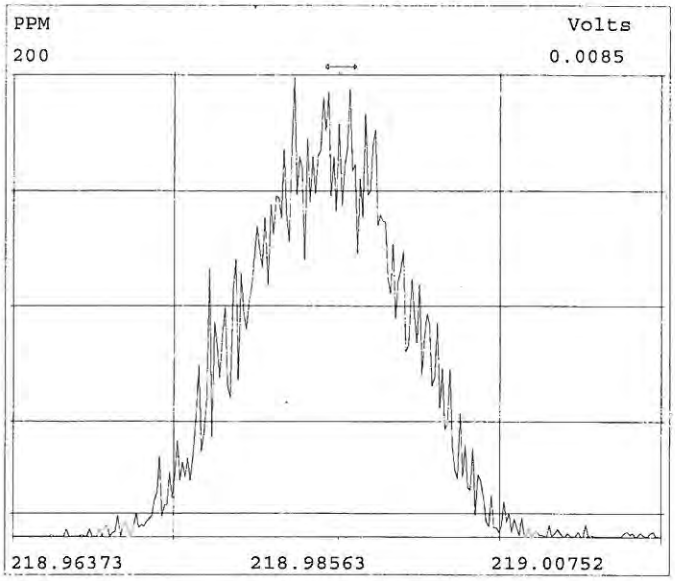
Peak Locate Examination:12-APR-2017:19:55 File:PB7C_129CAL2[130CAL]
Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

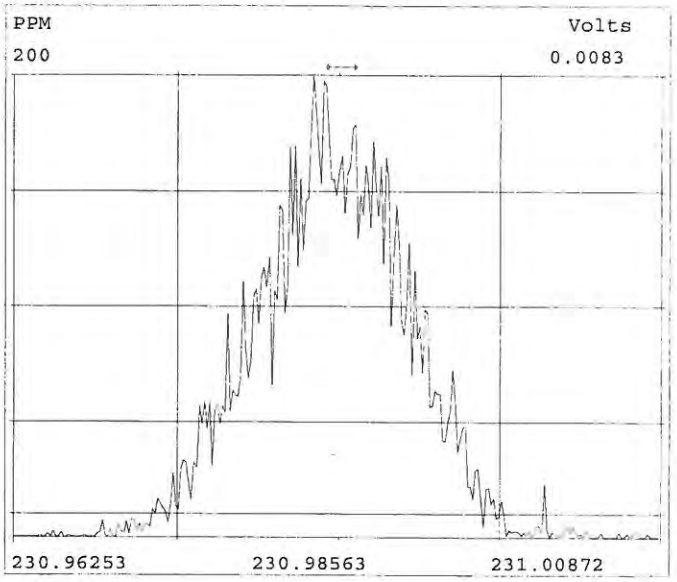


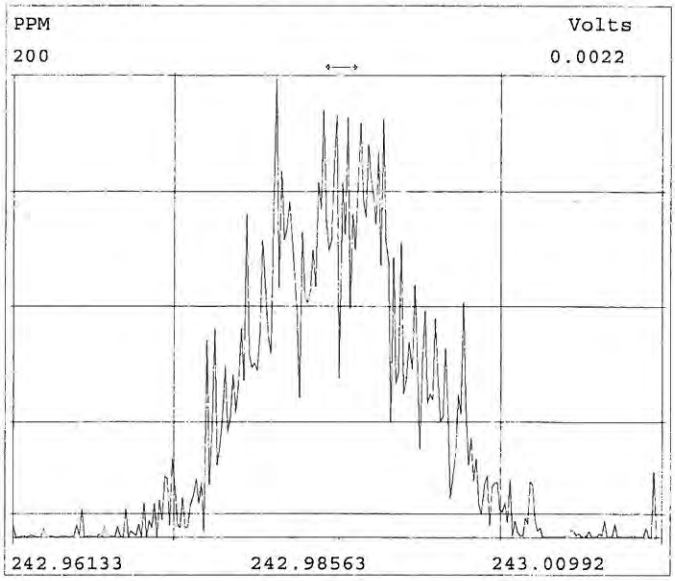



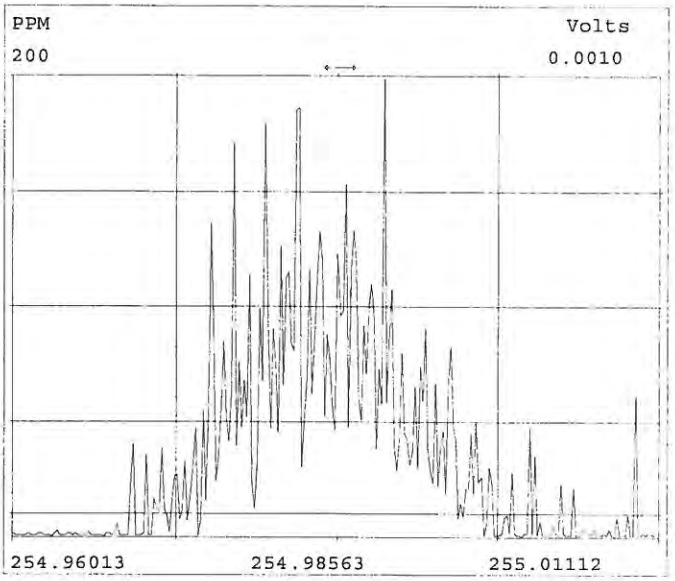


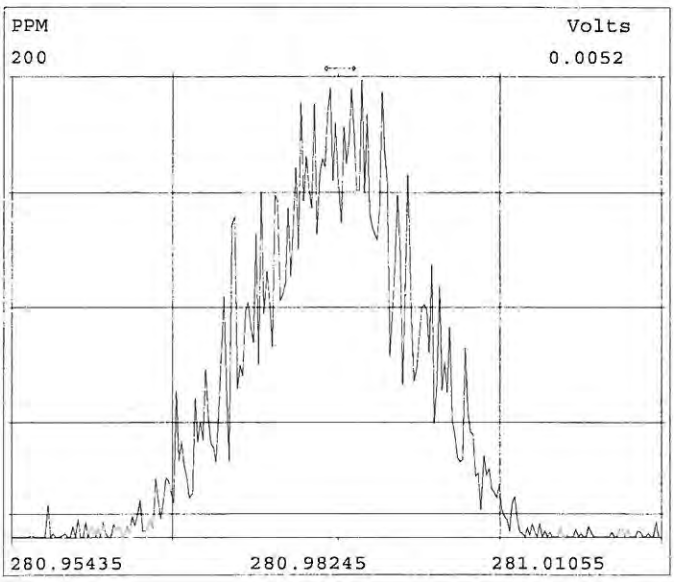

Peak Locate Examination:12-APR-2017:19:56 File:PB7C_129CAL2[130CAL]
Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668

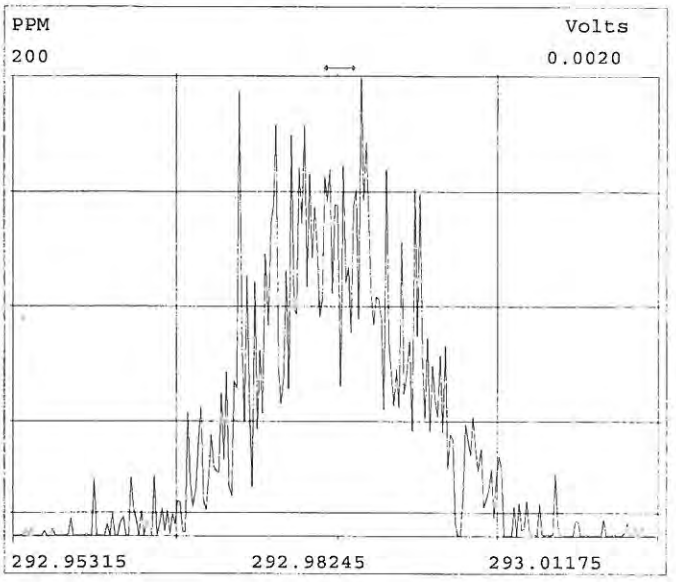


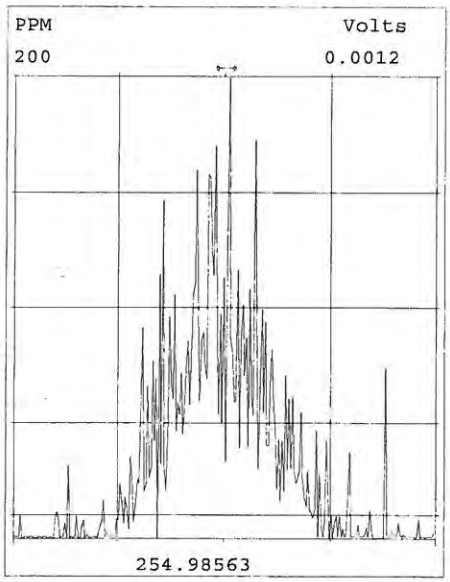



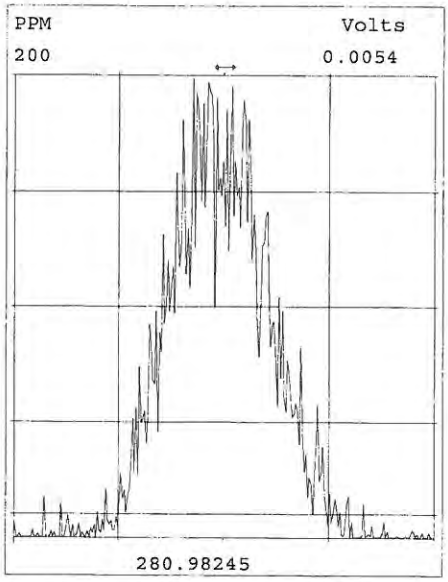



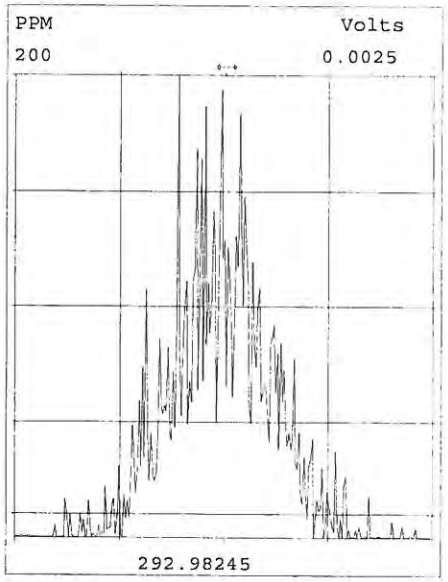



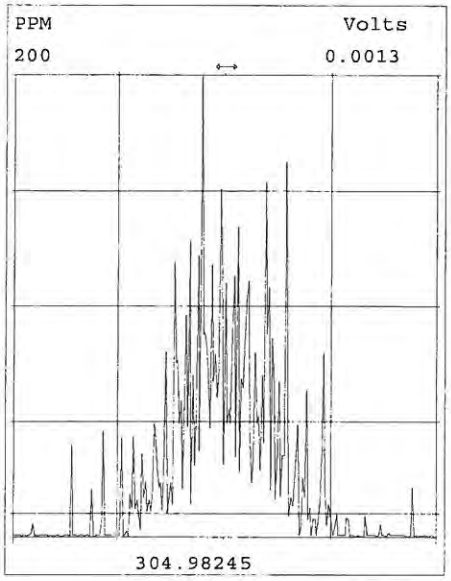



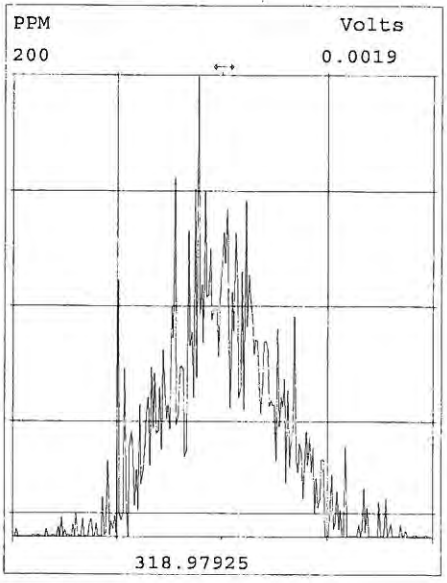
Peak Locate Examination:12-APR-2017:19:56 File:PB7C_129CAL2[130CAL]
Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

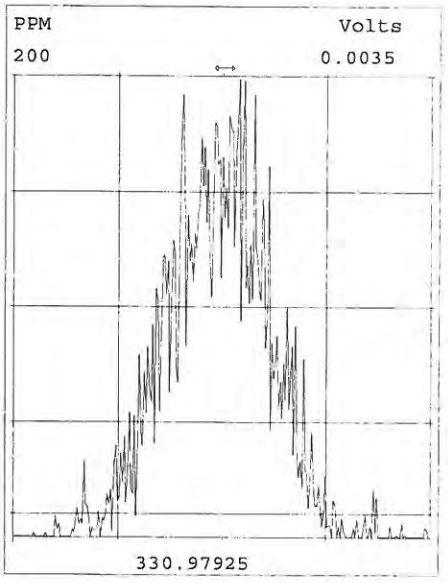


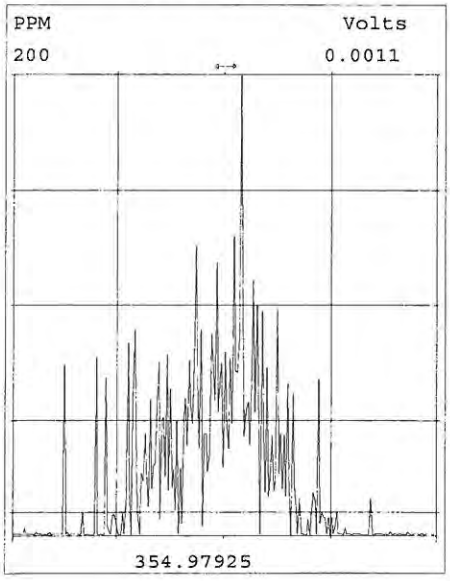



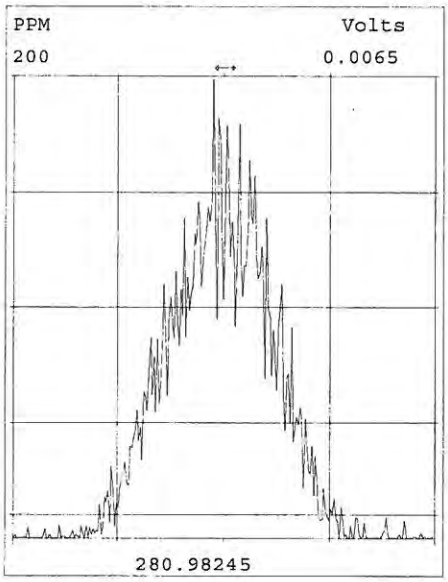



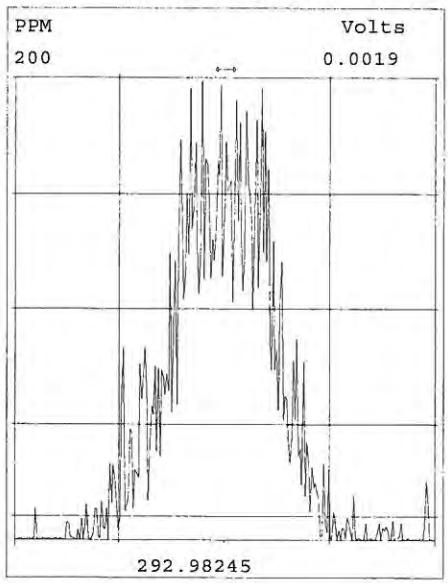



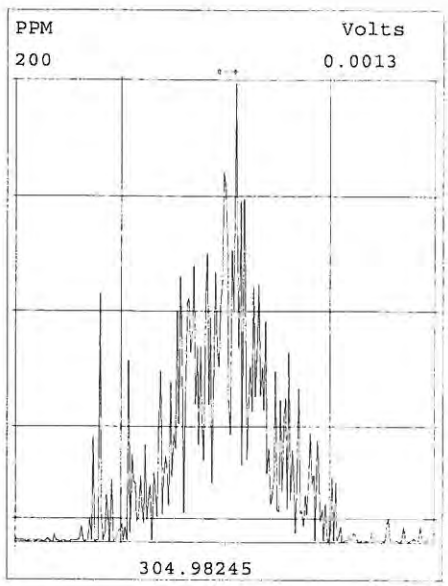



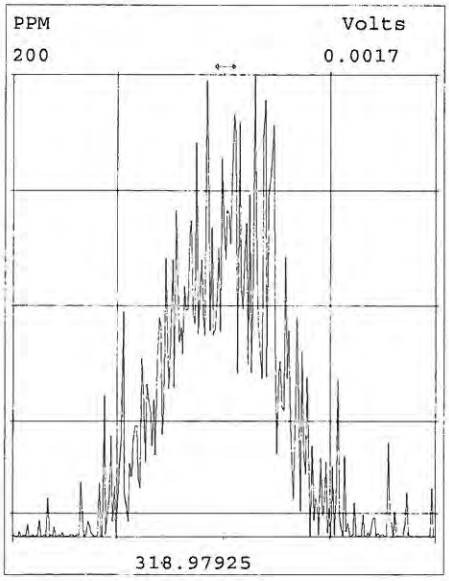



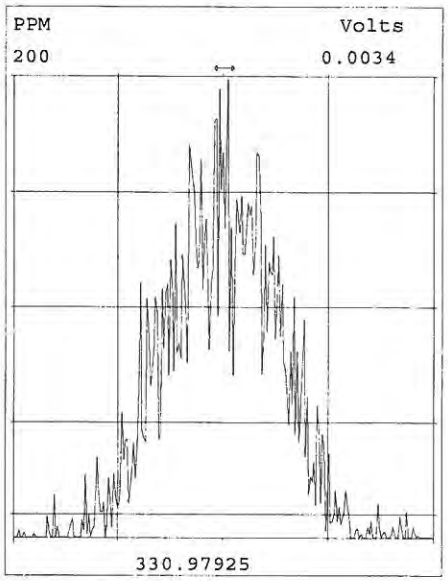
Peak Locate Examination:12-APR-2017:19:57 File:PB7C_129CAL2[130CAL]
Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

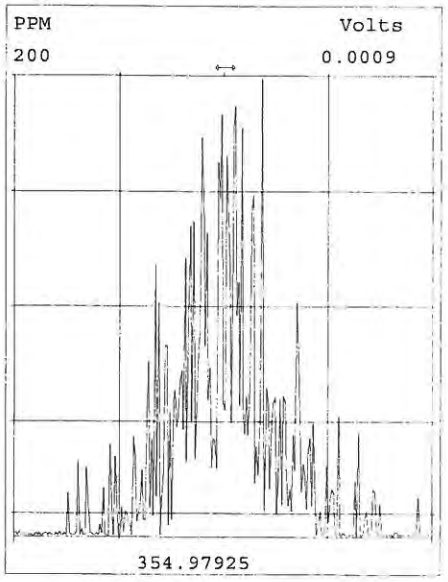


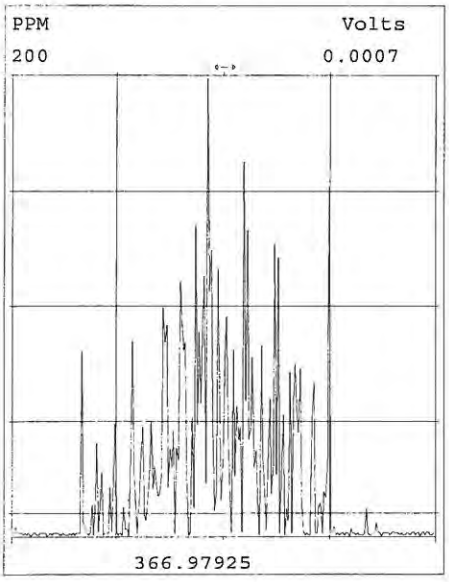



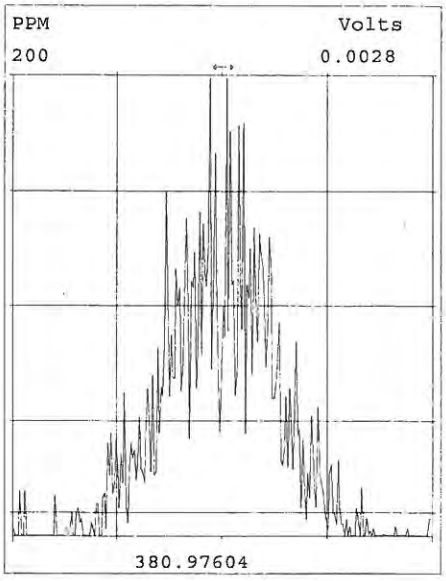



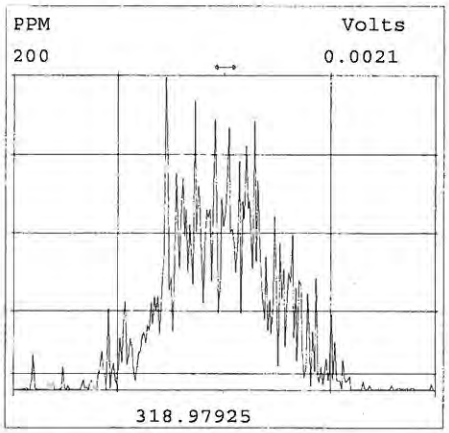



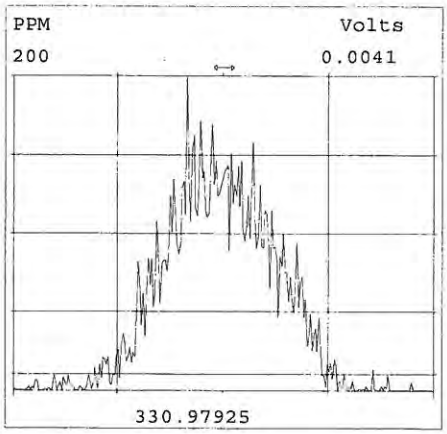



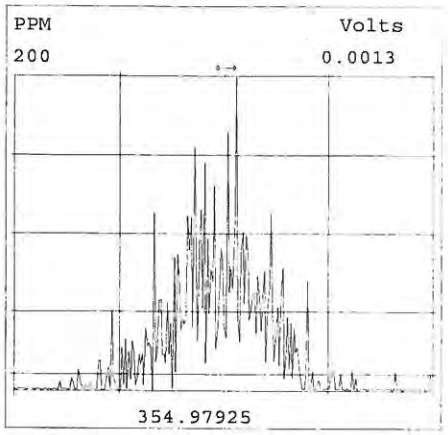



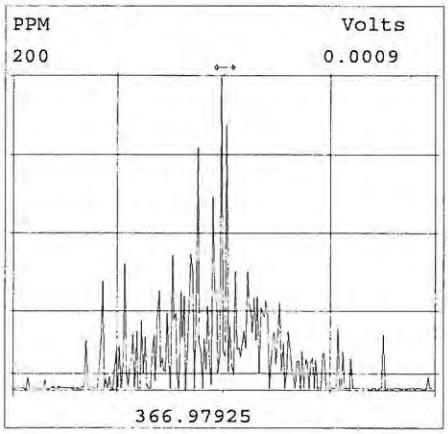



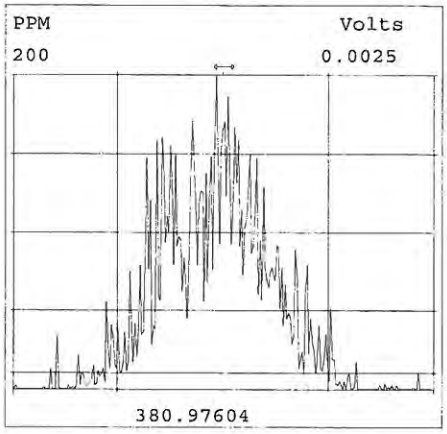
Peak Locate Examination:12-APR-2017:19:57 File:PB7C_129CAL2[130CAL]
Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

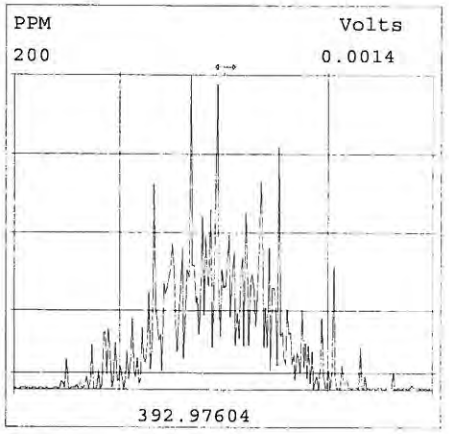


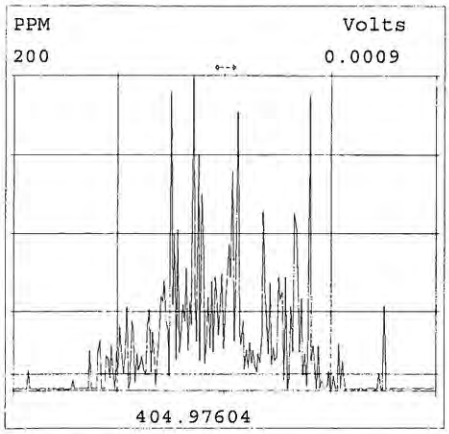



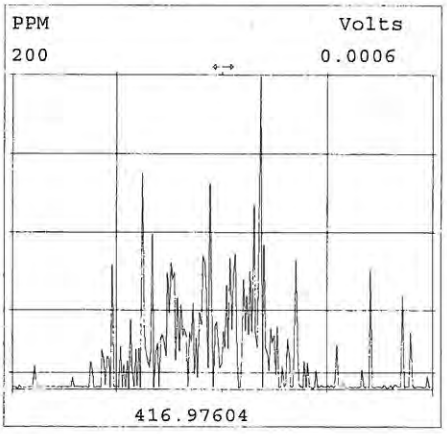



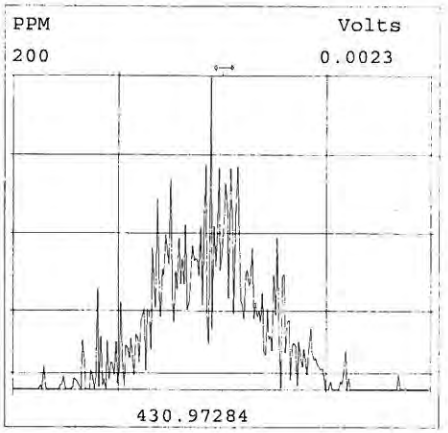



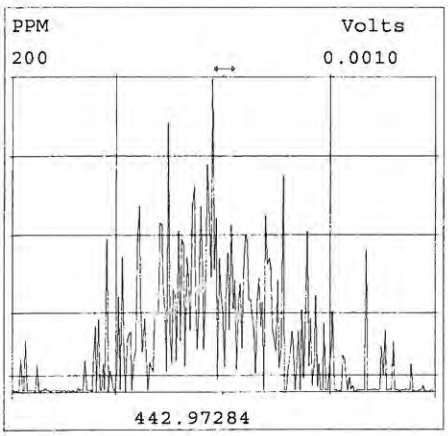



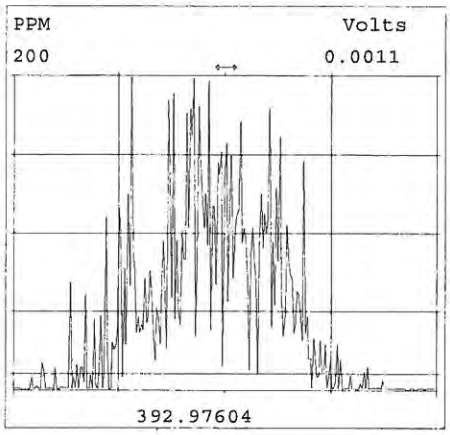



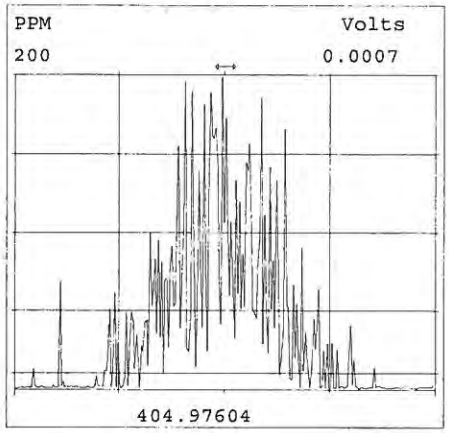



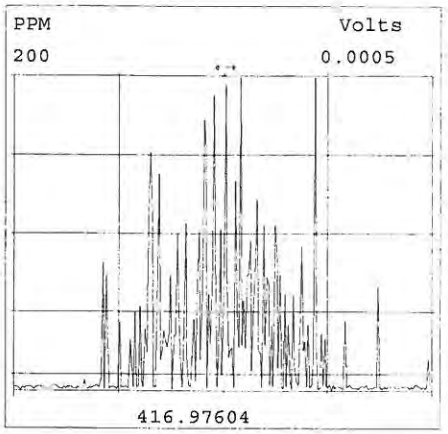



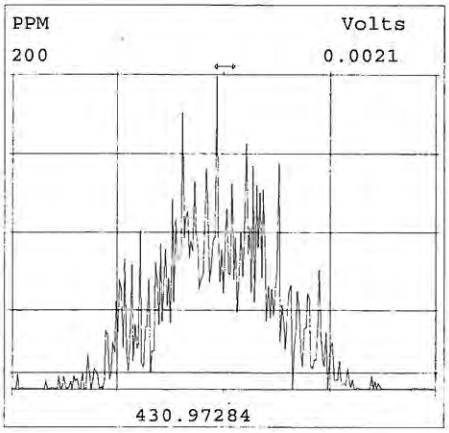



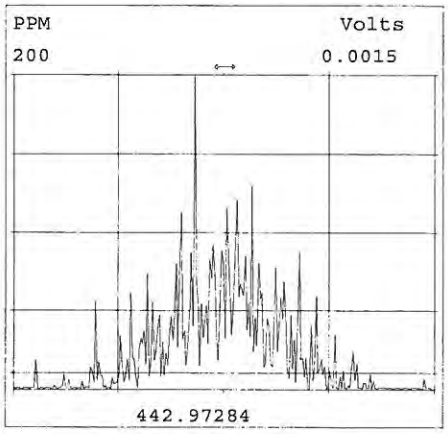
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Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

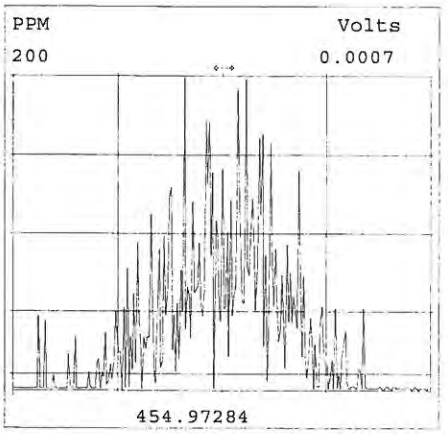


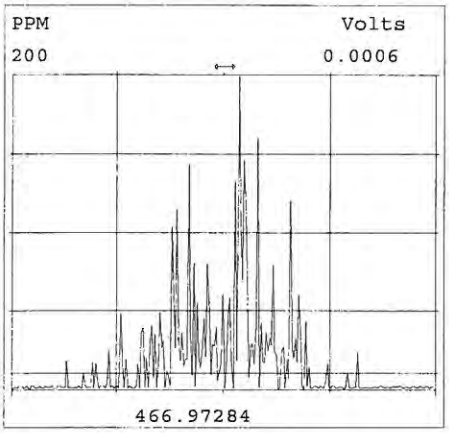



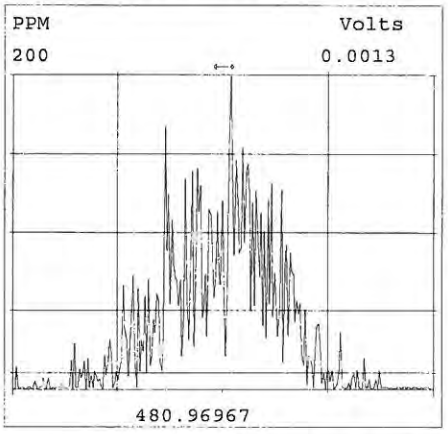



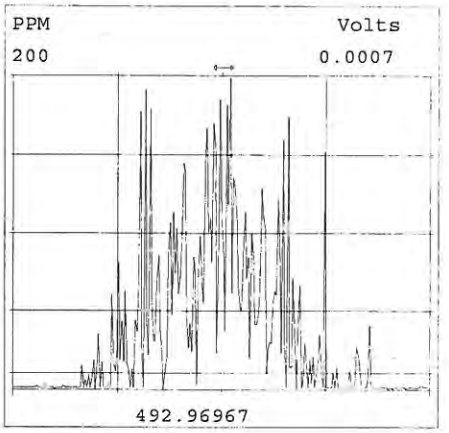



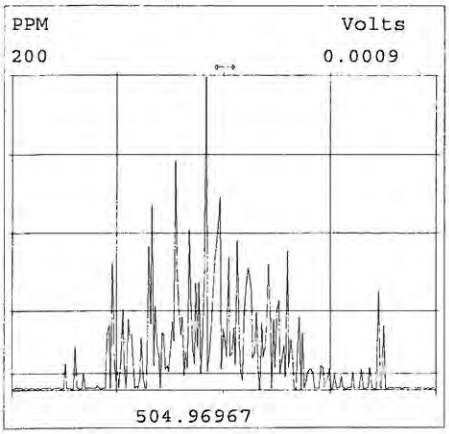



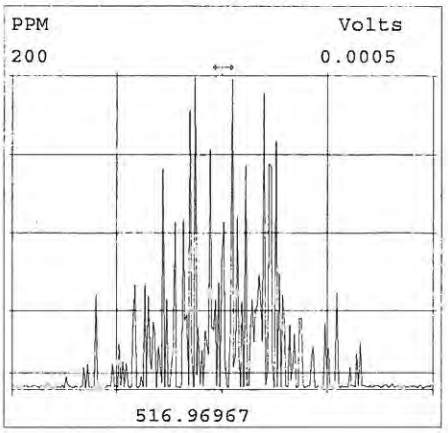



OPUSquan 13-APR-2017 Page 1



| c/q | Data Area | Data File | S | I | AnalyteTable | Factr #1 | Factr #2 | Size | HC | Sample Text | Comments | Done |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 c | ULTC | PB6C_435B | 3 | 1 | 1668A-C8 | 1.0000 | 1.0000 | 1.000000 | y | PB108C-CAL,,» | 1,,1.0uL CS-1 | y |
| 2 c | ULTC | PB6C_435B | 8 | 1 | 1668A-C8 | 5.0000 | 1.0000 | 1.000000 | y | PB108D-CAL,,» | 1,,1.0uL CS-2 | y |
| 3 c | ULTC | PB6C_435B | 7 | 1 | 1668A-C8 | 50.0000 | 1.0000 | 1.000000 | y | PB108E-CAL,,» | 1,,1.0uL CS-3 | y |
| 4 c | ULTC | PB6C_435B | 6 | 1 | 1668A-C8 | 400.0000 | 1.0000 | 1.000000 | y | PB108F-CAL,,» | 1,,1.0uL CS-4 | y |
| 5 c | ULTC | PB6C_435B | 5 | 1 | 1668A-C8 | 2000.00» | 1.0000 | 1.000000 | y | PB108G-CAL,,» | 1,,1.0uL CS-5 | y |
| 6 c | ULTC | PB6C_435B | 10 | 1 | 1668A-C8 | 6000.00» | 1.0000 | 1.000000 | y | PB108H-CAL,,» | 1,,1.0uL CS-6 | y |
| 7 q | ULTC | PB7C_129 | 1 | 1 | 1668A-CV8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |
| 8 q | ULTC | PB7C_129 | 2 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 20.000000 | y | WG58451-102,» | 1,WG58451,1.0/20» | y |
| 9 q | ULTC | PB7C_129 | 3 | 1 | 1668A-S8 | 1.0000 | 0.1000 | 1.000000 | y | PB053A-SUR,,» | 1,,1.0uL Inst Bl» | y |
| 10 q | ULTC | PB7C_129 | 4 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-101,» | 1,WG58451,1.0/20» | y |
| 11 q | ULTC | PB7C_129 | 5 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-103,» | 1,WG58451,1.0/20» | y |
| 12 q | ULTC | PB7C_129 | 6 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-104,» | 1,WG58451,1.0/20» | y |
| 13 q | ULTC | PB7C_129 | 8 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 0.991230 | y | L27062-1,, | 1,WG58451,1.0/20» | y |
| 14 q | ULTC | PB7C_129 | 9 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 0.999730 | y | L27062-2,, | 1,WG58451,1.0/20» | y |
| 15 q | ULTC | PB7C_129 | 10 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 0.997920 | y | L27062-3,, | 1,WG58451,1.0/20» | y |
| 16 q | ULTC | PB7C_129 | 11 | 1 | 1668A-CV8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |

OPUSquan 13-APR-2017 Page 1



| c/q | Data Area | Data File | S | I | AnalyteTable | Factr #1 | Factr #2 | Size | HC | Sample Text | Comments | Done |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 c | ULTC | PB7C_129 | 1 | 1 | 1668XB-C8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |
| 2 q | ULTC | PB7C_129 | 3 | 1 | 1668XB-S8 | 1.0000 | 0.1000 | 1.000000 | y | PB053A-SUR,,» | 1,,1.0uL Inst Bl» | y |
| 3 q | ULTC | PB7C_129 | 4 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-101,» | 1,WG58451,1.0/20» | y |
| 4 q | ULTC | PB7C_129 | 5 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-103,» | 1,WG58451,1.0/20» | y |
| 5 q | ULTC | PB7C_129 | 6 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 1.000000 | y | WG58451-104,» | 1,WG58451,1.0/20» | y |
| 6 q | ULTC | PB7C_129 | 8 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 0.991230 | y | L27062-1,, | 1,WG58451,1.0/20» | y |
| 7 q | ULTC | PB7C_129 | 9 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 0.999730 | y | L27062-2,, | 1,WG58451,1.0/20» | y |
| 8 q | ULTC | PB7C_129 | 10 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 0.997920 | y | L27062-3,, | 1,WG58451,1.0/20» | y |

**AXYS METHOD MLA-010 Rev 11**

**Form 4A**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:07:04 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | MZ's FORMING RATIO [2] | ION ABUND. RATIO | QC LIMITS [3] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | **M/M+2** | 3.16 | 2.66-3.60 | 25.0 | 18.8 - 31.3 |
| **4-MoCB** | 3 | | | **M/M+2** | 3.15 | 2.66-3.60 | 25.6 | 18.8 - 31.3 |
| **2,2'-DiCB** | 4 | | | **M/M+2** | 1.55 | 1.33-1.79 | 24.8 | 18.8 - 31.3 |
| **4,4'-DiCB** | 15 | | | **M/M+2** | 1.55 | 1.33-1.79 | 29.0 | 21.0 - 35.0 |
| **2,2',6-TriCB** | 19 | | | **M/M+2** | 1.05 | 0.88-1.20 | 27.7 | 18.8 - 31.3 |
| **3,4,4'-TriCB** | 37 | | | **M/M+2** | 1.02 | 0.88-1.20 | 26.6 | 18.8 - 31.3 |
| **2,2',6,6'-TeCB** | 54 | | | **M/M+2** | 0.78 | 0.65-0.89 | 51.2 | 37.5 - 62.5 |
| **3,3',4,4'-TeCB** | 77 | | | **M/M+2** | 0.79 | 0.65-0.89 | 50.3 | 37.5 - 62.5 |
| **3,4,4',5-TeCB** | 81 | | | **M/M+2** | 0.79 | 0.65-0.89 | 53.3 | 37.5 - 62.5 |
| **2,2',4,6,6'-PeCB** | 104 | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 52.5 | 37.5 - 62.5 |
| **2,3,3',4,4'-PeCB** | 105 | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 54.9 | 37.5 - 62.5 |
| **2,3,4,4',5-PeCB** | 114 | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 53.3 | 37.5 - 62.5 |
| **2,3',4,4',5-PeCB** | 118 | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 52.4 | 37.5 - 62.5 |
| **2',3,4,4',5-PeCB** | 123 | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 52.6 | 37.5 - 62.5 |
| **3,3',4,4',5-PeCB** | 126 | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 54.5 | 41.8 - 69.6 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 53.3 | 37.5 - 62.5 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | **M+2/M+4** | 1.25 | 1.05-1.43 | 106 | 75.0 - 125 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 56.1 | 37.5 - 62.5 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | **M+2/M+4** | 1.37 | 1.05-1.43 | 61.3 | 37.5 - 62.5 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 49.9 | 37.5 - 62.5 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | **M+2/M+4** | 1.06 | 0.89-1.21 | 51.2 | 37.5 - 62.5 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 84.1 | 63.2 - 105 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | **M+2/M+4** | 0.91 | 0.76-1.02 | 79.6 | 56.3 - 93.8 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | **M+2/M+4** | 0.79 | 0.65-0.89 | 78.6 | 56.3 - 93.8 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | **M+2/M+4** | 0.78 | 0.65-0.89 | 85.6 | 62.9 - 105 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | **M+4/M+6** | 1.19 | 0.99-1.33 | 76.8 | 56.3 - 93.8 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16684A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_129S1__Form4A_SJ2197870.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 4B**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:07:04 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | MZ's FORMING RATIO [3] | ION ABUND. RATIO | QC LIMITS [4] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | **M/M+2** | 3.19 | 2.66-3.60 | 92.6 | 50.0 - 145 |
| **13C12-4-MoCB** | 3L | | | **M/M+2** | 3.13 | 2.66-3.60 | 91.5 | 50.0 - 145 |
| **13C12-2,2'-DiCB** | 4L | | | **M/M+2** | 1.59 | 1.33-1.79 | 91.9 | 50.0 - 145 |
| **13C12-4,4'-DiCB** | 15L | | | **M/M+2** | 1.56 | 1.33-1.79 | 92.5 | 50.0 - 145 |
| **13C12-2,2',6-TriCB** | 19L | | | **M/M+2** | 1.05 | 0.88-1.20 | 85.8 | 50.0 - 145 |
| **13C12-3,4,4'-TriCB** | 37L | | | **M/M+2** | 1.06 | 0.88-1.20 | 97.6 | 50.0 - 145 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | **M/M+2** | 0.81 | 0.65-0.89 | 96.3 | 50.0 - 145 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | **M/M+2** | 0.79 | 0.65-0.89 | 89.2 | 50.0 - 145 |
| **13C12-3,4,4',5-TeCB** | 81L | | | **M/M+2** | 0.78 | 0.65-0.89 | 91.9 | 50.0 - 145 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 95.0 | 50.0 - 145 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | **M+2/M+4** | 1.59 | 1.32-1.78 | 96.6 | 50.0 - 145 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | **M+2/M+4** | 1.61 | 1.32-1.78 | 98.3 | 50.0 - 145 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | **M+2/M+4** | 1.61 | 1.32-1.78 | 97.3 | 50.0 - 145 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 98.2 | 50.0 - 145 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | **M+2/M+4** | 1.62 | 1.32-1.78 | 91.8 | 50.0 - 145 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 88.6 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | **M+2/M+4** | 1.27 | 1.05-1.43 | 176 | 100 - 290 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 92.5 | 50.0 - 145 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | **M+2/M+4** | 1.28 | 1.05-1.43 | 91.3 | 50.0 - 145 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | **M+2/M+4** | 1.06 | 0.89-1.21 | 75.2 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 106 | 50.0 - 145 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 69.4 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | **M+2/M+4** | 0.91 | 0.76-1.02 | 93.0 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | **M+2/M+4** | 0.79 | 0.65-0.89 | 90.1 | 50.0 - 145 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | **M+2/M+4** | 0.76 | 0.65-0.89 | 93.8 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | **M+4/M+6** | 1.17 | 0.99-1.33 | 87.2 | 50.0 - 145 |
| **CLEAN-UP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | **M/M+2** | 1.06 | 0.88-1.20 | 104 | 65.0 - 135 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | **M+2/M+4** | 1.60 | 1.32-1.78 | 95.3 | 75.0 - 125 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 89.9 | 75.0 - 125 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16684B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_129S1__Form4B_SJ2197870.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 6A**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:07:04 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RETENTION TIME REFERENCE | IUPAC NO. [2] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | 13C12-2-MoCB | 1L | 1.001 | 0.999-1.004 |
| **4-MoCB** | 3 | | | 13C12-4-MoCB | 3L | 1.001 | 0.999-1.004 |
| **2,2'-DiCB** | 4 | | | 13C12-2,2'-DiCB | 4L | 1.001 | 0.999-1.004 |
| **4,4'-DiCB** | 15 | | | 13C12-4,4'-DiCB | 15L | 1.001 | 0.999-1.002 |
| **2,2',6-TriCB** | 19 | | | 13C12-2,2',6-TriCB | 19L | 1.001 | 0.999-1.003 |
| **3,4,4'-TriCB** | 37 | | | 13C12-3,4,4'-TriCB | 37L | 1.001 | 0.999-1.002 |
| **2,2',6,6'-TeCB** | 54 | | | 13C12-2,2',6,6'-TeCB | 54L | 1.001 | 0.999-1.002 |
| **3,3',4,4'-TeCB** | 77 | | | 13C12-3,3',4,4'-TeCB | 77L | 1.001 | 1.000-1.001 |
| **3,4,4',5-TeCB** | 81 | | | 13C12-3,4,4',5-TeCB | 81L | 1.000 | 1.000-1.001 |
| **2,2',4,6,6'-PeCB** | 104 | | | 13C12-2,2',4,6,6'-PeCB | 104L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4'-PeCB** | 105 | | | 13C12-2,3,3',4,4'-PeCB | 105L | 1.001 | 1.000-1.001 |
| **2,3,4,4',5-PeCB** | 114 | | | 13C12-2,3,4,4',5-PeCB | 114L | 1.001 | 1.000-1.001 |
| **2,3',4,4',5-PeCB** | 118 | | | 13C12-2,3',4,4',5-PeCB | 118L | 1.001 | 1.000-1.001 |
| **2',3,4,4',5-PeCB** | 123 | | | 13C12-2',3,4,4',5-PeCB | 123L | 1.000 | 1.000-1.001 |
| **3,3',4,4',5-PeCB** | 126 | | | 13C12-3,3',4,4',5-PeCB | 126L | 1.001 | 1.000-1.001 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | 13C12-2,2',4,4',6,6'-HxCB | 155L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB | 156L/157L | 1.001 | 0.999-1.003 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 13C12-2,3',4,4',5,5'-HxCB | 167L | 1.001 | 1.000-1.001 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | 13C12-3,3',4,4',5,5'-HxCB | 169L | 1.001 | 1.000-1.001 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | 13C12-2,2',3,4',5,6,6'-HpCB | 188L | 1.001 | 1.000-1.001 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 13C12-2,3,3',4,4',5,5'-HpCB | 189L | 1.000 | 1.000-1.001 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 13C12-2,2',3,3',5,5',6,6'-OcCB | 202L | 1.001 | 1.000-1.001 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 13C12-2,3,3',4,4',5,5',6-OcCB | 205L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 13C12-2,2',3,3',4,4',5,5',6-NoCB | 206L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 13C12-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | 13C12-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 1.000 | 1.000-1.001 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 6B**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:07:04 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RETENTION TIME REFERENCE | IUPAC NO. [1] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 13C12-2,5-DiCB | 9L | 0.718 | 0.687-0.749 |
| **13C12-4-MoCB** | 3L | | | 13C12-2,5-DiCB | 9L | 0.857 | 0.826-0.889 |
| **13C12-2,2'-DiCB** | 4L | | | 13C12-2,5-DiCB | 9L | 0.873 | 0.842-0.904 |
| **13C12-4,4'-DiCB** | 15L | | | 13C12-2,5-DiCB | 9L | 1.253 | 1.222-1.284 |
| **13C12-2,2',6-TriCB** | 19L | | | 13C12-2,5-DiCB | 9L | 1.072 | 1.041-1.103 |
| **13C12-3,4,4'-TriCB** | 37L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.091 | 1.071-1.111 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.811 | 0.798-0.824 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.396 | 1.382-1.409 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.372 | 1.359-1.386 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 0.809 | 0.798-0.819 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.199 | 1.189-1.210 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.178 | 1.168-1.189 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.161 | 1.151-1.172 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.151 | 1.141-1.161 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.300 | 1.290-1.310 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 0.786 | 0.778-0.795 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.107 | 1.099-1.116 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.078 | 1.070-1.086 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.191 | 1.183-1.200 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.712 | 0.706-0.718 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.959 | 0.953-0.965 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.818 | 0.811-0.824 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.009 | 1.000-1.019 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.043 | 1.034-1.053 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.949 | 0.943-0.955 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.075 | 1.066-1.084 |
| **CLEANUP STANDARD** | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.925 | 0.912-0.938 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.087 | 1.077-1.098 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.012 | 1.004-1.020 |

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16686B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_129S1__Form6B_SJ2197870.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 3A**

**PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016 **CAL Data Filename:** PB7C_129 S: 1

**Instrument ID:** HR GC/MS **Analysis Date:** 12-Apr-2017

**GC Column ID:** SPB OCTYL **Analysis Time:** 08:07:04

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **3-MoCB** | 2 | | | 1.12 | **M/M+2** | 3.17 | 2.66-3.60 | 0.988 | 0.984 - 0.992 |
| **2,3-DiCB** | 5 | | | 1.17 | **M/M+2** | 1.54 | 1.33-1.79 | 1.199 | 1.195 - 1.203 |
| **2,3'-DiCB** | 6 | | | 1.28 | **M/M+2** | 1.56 | 1.33-1.79 | 1.176 | 1.173 - 1.180 |
| **2,4-DiCB** | 7 | | | 1.25 | **M/M+2** | 1.56 | 1.33-1.79 | 1.159 | 1.155 - 1.162 |
| **2,4'-DiCB** | 8 | | | 1.36 | **M/M+2** | 1.55 | 1.33-1.79 | 1.209 | 1.205 - 1.212 |
| **2,5-DiCB** | 9 | | | 1.28 | **M/M+2** | 1.57 | 1.33-1.79 | 1.147 | 1.143 - 1.150 |
| **2,6-DiCB** | 10 | | | 1.22 | **M/M+2** | 1.54 | 1.33-1.79 | 1.014 | 1.011 - 1.018 |
| **3,3'-DiCB** | 11 | | | 1.27 | **M/M+2** | 1.57 | 1.33-1.79 | 0.969 | 0.967 - 0.972 |
| **3,4-DiCB** | 12 | 12 + 13 | C | 1.24 | **M/M+2** | 1.56 | 1.33-1.79 | 0.984 | 0.982 - 0.987 |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | | | |
| **3,5-DiCB** | 14 | | | 1.27 | **M/M+2** | 1.55 | 1.33-1.79 | 0.926 | 0.924 - 0.929 |
| **2,2',3-TriCB** | 16 | | | 0.79 | **M/M+2** | 1.04 | 0.88-1.20 | 1.165 | 1.162 - 1.168 |
| **2,2',4-TriCB** | 17 | | | 0.90 | **M/M+2** | 1.09 | 0.88-1.20 | 1.138 | 1.135 - 1.141 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C | 1.07 | **M/M+2** | 1.04 | 0.88-1.20 | 1.113 | 1.110 - 1.116 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C | 1.43 | **M/M+2** | 1.04 | 0.88-1.20 | 0.848 | 0.845 - 0.851 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C | 1.43 | **M/M+2** | 1.04 | 0.88-1.20 | 0.856 | 0.853 - 0.859 |
| **2,3,4'-TriCB** | 22 | | | 1.31 | **M/M+2** | 1.03 | 0.88-1.20 | 0.872 | 0.870 - 0.874 |
| **2,3,5-TriCB** | 23 | | | 1.28 | **M/M+2** | 1.04 | 0.88-1.20 | 1.283 | 1.280 - 1.285 |
| **2,3,6-TriCB** | 24 | | | 1.18 | **M/M+2** | 1.05 | 0.88-1.20 | 1.158 | 1.155 - 1.161 |
| **2,3',4-TriCB** | 25 | | | 1.58 | **M/M+2** | 1.04 | 0.88-1.20 | 0.826 | 0.824 - 0.828 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C | 1.39 | **M/M+2** | 1.04 | 0.88-1.20 | 1.302 | 1.297 - 1.307 |
| **2,3',6-TriCB** | 27 | | | 1.28 | **M/M+2** | 1.05 | 0.88-1.20 | 1.150 | 1.148 - 1.153 |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | | | |
| **2,4',5-TriCB** | 31 | | | 1.46 | **M/M+2** | 1.04 | 0.88-1.20 | 0.837 | 0.835 - 0.839 |
| **2,4',6-TriCB** | 32 | | | 1.43 | **M/M+2** | 1.04 | 0.88-1.20 | 1.197 | 1.194 - 1.200 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | | | |
| **2',3,5-TriCB** | 34 | | | 1.35 | **M/M+2** | 1.04 | 0.88-1.20 | 1.273 | 1.270 - 1.276 |
| **3,3',4-TriCB** | 35 | | | 1.38 | **M/M+2** | 1.03 | 0.88-1.20 | 0.985 | 0.984 - 0.987 |
| **3,3',5-TriCB** | 36 | | | 1.45 | **M/M+2** | 1.05 | 0.88-1.20 | 0.932 | 0.930 - 0.934 |
| **3,4,5-TriCB** | 38 | | | 1.45 | **M/M+2** | 1.06 | 0.88-1.20 | 0.968 | 0.966 - 0.970 |
| **3,4',5-TriCB** | 39 | | | 1.54 | **M/M+2** | 1.03 | 0.88-1.20 | 0.946 | 0.944 - 0.948 |
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C | 0.83 | **M/M+2** | 0.78 | 0.65-0.89 | 1.334 | 1.330 - 1.339 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | | | |
| **2,2',3,4'-TeCB** | 42 | | | 0.79 | **M/M+2** | 0.78 | 0.65-0.89 | 1.311 | 1.309 - 1.314 |
| **2,2',3,5-TeCB** | 43 | | | 0.65 | **M/M+2** | 0.79 | 0.65-0.89 | 1.246 | 1.243 - 1.248 |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C | 0.97 | **M/M+2** | 0.78 | 0.65-0.89 | 1.286 | 1.282 - 1.290 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C | 0.86 | **M/M+2** | 0.77 | 0.65-0.89 | 1.147 | 1.143 - 1.151 |
| **2,2',3,6'-TeCB** | 46 | | | 0.75 | **M/M+2** | 0.79 | 0.65-0.89 | 1.161 | 1.158 - 1.163 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | | | |
| **2,2',4,5-TeCB** | 48 | | | 0.92 | **M/M+2** | 0.78 | 0.65-0.89 | 1.274 | 1.271 - 1.276 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C | 0.99 | **M/M+2** | 0.79 | 0.65-0.89 | 1.258 | 1.254 - 1.262 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C | 0.89 | **M/M+2** | 0.78 | 0.65-0.89 | 1.111 | 1.107 - 1.116 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | | | |
| **2,2',5,5'-TeCB** | 52 | | | 0.91 | **M/M+2** | 0.78 | 0.65-0.89 | 1.234 | 1.232 - 1.237 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | | | |
| **2,3,3',4-TeCB** | 55 | | | 1.06 | **M/M+2** | 0.79 | 0.65-0.89 | 0.890 | 0.888 - 0.891 |
| **2,3,3',4'-TeCB** | 56 | | | 1.06 | **M/M+2** | 0.79 | 0.65-0.89 | 0.905 | 0.903 - 0.906 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **2,3,3',5-TeCB** | 57 | | | 1.23 | **M/M+2** | 0.80 | 0.65-0.89 | 0.844 | 0.843 - 0.846 |
| **2,3,3',5'-TeCB** | 58 | | | 1.12 | **M/M+2** | 0.79 | 0.65-0.89 | 0.851 | 0.850 - 0.853 |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C | 1.16 | **M/M+2** | 0.80 | 0.65-0.89 | 1.302 | 1.298 - 1.306 |
| **2,3,4,4'-TeCB** | 60 | | | 1.06 | **M/M+2** | 0.79 | 0.65-0.89 | 0.911 | 0.910 - 0.913 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C | 1.14 | **M/M+2** | 0.78 | 0.65-0.89 | 0.875 | 0.872 - 0.877 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | | | |
| **2,3,4',5-TeCB** | 63 | | | 1.19 | **M/M+2** | 0.80 | 0.65-0.89 | 0.865 | 0.863 - 0.866 |
| **2,3,4',6-TeCB** | 64 | | | 1.13 | **M/M+2** | 0.77 | 0.65-0.89 | 1.348 | 1.346 - 1.351 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | | | |
| **2,3',4,4'-TeCB** | 66 | | | 1.16 | **M/M+2** | 0.78 | 0.65-0.89 | 0.885 | 0.883 - 0.886 |
| **2,3',4,5-TeCB** | 67 | | | 1.37 | **M/M+2** | 0.79 | 0.65-0.89 | 0.857 | 0.855 - 0.858 |
| **2,3',4,5'-TeCB** | 68 | | | 1.24 | **M/M+2** | 0.79 | 0.65-0.89 | 0.832 | 0.830 - 0.833 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | | | |
| **2,3',5,5'-TeCB** | 72 | | | 1.22 | **M/M+2** | 0.80 | 0.65-0.89 | 0.823 | 0.822 - 0.825 |
| **2,3',5',6-TeCB** | 73 | | | 1.16 | **M/M+2** | 0.78 | 0.65-0.89 | 1.242 | 1.239 - 1.244 |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **3,3',4,5-TeCB** | 78 | | | 1.06 | **M/M+2** | 0.78 | 0.65-0.89 | 0.987 | 0.986 - 0.989 |
| **3,3',4,5'-TeCB** | 79 | | | 1.27 | **M/M+2** | 0.79 | 0.65-0.89 | 0.970 | 0.969 - 0.972 |
| **3,3',5,5'-TeCB** | 80 | | | 1.18 | **M/M+2** | 0.80 | 0.65-0.89 | 0.924 | 0.923 - 0.926 |
| **2,2',3,3',4-PeCB** | 82 | | | 0.70 | **M+2/M+4** | 1.61 | 1.32-1.78 | 0.933 | 0.932 - 0.934 |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C | 0.75 | **M+2/M+4** | 1.56 | 1.32-1.78 | 0.884 | 0.881 - 0.887 |
| **2,2',3,3',6-PeCB** | 84 | | | 0.70 | **M+2/M+4** | 1.61 | 1.32-1.78 | 1.162 | 1.160 - 1.164 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C | 0.92 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.919 | 0.916 - 0.922 |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C | 0.89 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.900 | 0.897 - 0.904 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C | 0.79 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.152 | 1.148 - 1.155 |
| **2,2',3,4,6'-PeCB** | 89 | | | 0.75 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.181 | 1.179 - 1.183 |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C | 0.90 | **M+2/M+4** | 1.58 | 1.32-1.78 | 0.868 | 0.866 - 0.871 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | | 0.79 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.853 | 0.851 - 0.854 |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C | 0.83 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.129 | 1.118 - 1.139 |
| **2,2',3,5,6'-PeCB** | 94 | | | 0.75 | **M+2/M+4** | 1.55 | 1.32-1.78 | 1.101 | 1.099 - 1.103 |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | | 1.16 | **M+2/M+4** | 1.58 | 1.32-1.78 | 1.015 | 1.012 - 1.018 |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | | | |
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,5',6-PeCB** | 103 | | | 0.93 | **M+2/M+4** | 1.55 | 1.32-1.78 | 1.093 | 1.091 - 1.095 |
| **2,3,3',4,5-PeCB** | 106 | | | 1.19 | **M+2/M+4** | 1.58 | 1.32-1.78 | 1.004 | 1.002 - 1.005 |
| **2,3,3',4',5-PeCB** | 107 [4] | | | 1.13 | **M+2/M+4** | 1.54 | 1.32-1.78 | 0.997 | 0.996 - 0.999 |
| **2,3,3',4,5'-PeCB** | 108 [4] | 108 + 124 | C | 1.05 | **M+2/M+4** | 1.58 | 1.32-1.78 | 0.991 | 0.988 - 0.993 |
| **2,3,3',4,6-PeCB** | 109 [4] | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C | 1.05 | **M+2/M+4** | 1.59 | 1.32-1.78 | 0.926 | 0.924 - 0.928 |
| **2,3,3',5,5'-PeCB** | 111 | | | 1.07 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.945 | 0.944 - 0.947 |
| **2,3,3',5,6-PeCB** | 112 | | | 1.12 | **M+2/M+4** | 1.58 | 1.32-1.78 | 0.889 | 0.888 - 0.890 |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | | | |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | | | |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | | 1.16 | **M+2/M+4** | 1.58 | 1.32-1.78 | 0.958 | 0.957 - 0.960 |
| **2,3',4,5',6-PeCB** | 121 | | | 1.03 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.200 | 1.198 - 1.202 |
| **2',3,3',4,5-PeCB** | 122 | | | 0.98 | **M+2/M+4** | 1.56 | 1.32-1.78 | 1.010 | 1.009 - 1.012 |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **3,3',4,5,5'-PeCB** | 127 | | | 0.99 | **M+2/M+4** | 1.57 | 1.32-1.78 | 1.041 | 1.040 - 1.043 |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C | 0.93 | **M+2/M+4** | 1.27 | 1.05-1.43 | 0.958 | 0.956 - 0.960 |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C | 0.95 | **M+2/M+4** | 1.27 | 1.05-1.43 | 0.930 | 0.927 - 0.932 |
| **2,2',3,3',4,5'-HxCB** | 130 | | | 0.76 | **M+2/M+4** | 1.27 | 1.05-1.43 | 0.913 | 0.912 - 0.914 |
| **2,2',3,3',4,6-HxCB** | 131 | | | 0.81 | **M+2/M+4** | 1.25 | 1.05-1.43 | 1.158 | 1.156 - 1.159 |
| **2,2',3,3',4,6'-HxCB** | 132 | | | 0.78 | **M+2/M+4** | 1.29 | 1.05-1.43 | 1.174 | 1.171 - 1.176 |
| **2,2',3,3',5,5'-HxCB** | 133 | | | 0.84 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.191 | 1.189 - 1.192 |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C | 0.83 | **M+2/M+4** | 1.28 | 1.05-1.43 | 1.140 | 1.138 - 1.143 |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C | 1.03 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.106 | 1.100 - 1.112 |
| **2,2',3,3',6,6'-HxCB** | 136 | | | 1.29 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.023 | 1.021 - 1.024 |
| **2,2',3,4,4',5-HxCB** | 137 | | | 0.79 | **M+2/M+4** | 1.46 | 1.05-1.43 | 0.918 | 0.917 - 0.919 |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C | 0.94 | **M+2/M+4** | 1.25 | 1.05-1.43 | 1.152 | 1.150 - 1.155 |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | | 0.88 | **M+2/M+4** | 1.29 | 1.05-1.43 | 0.903 | 0.902 - 0.904 |
| **2,2',3,4,5,6-HxCB** | 142 | | | 0.84 | **M+2/M+4** | 1.27 | 1.05-1.43 | 1.164 | 1.162 - 1.165 |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | | 0.97 | **M+2/M+4** | 1.25 | 1.05-1.43 | 1.121 | 1.119 - 1.122 |
| **2,2',3,4,6,6'-HxCB** | 145 | | | 1.21 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.033 | 1.031 - 1.034 |
| **2,2',3,4',5,5'-HxCB** | 146 | | | 1.09 | **M+2/M+4** | 1.27 | 1.05-1.43 | 0.884 | 0.883 - 0.885 |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C | 0.97 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.133 | 1.130 - 1.135 |
| **2,2',3,4',5,6'-HxCB** | 148 | | | 0.94 | **M+2/M+4** | 1.24 | 1.05-1.43 | 1.083 | 1.081 - 1.084 |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | | 1.26 | **M+2/M+4** | 1.27 | 1.05-1.43 | 1.011 | 1.010 - 1.013 |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | | 1.31 | **M+2/M+4** | 1.24 | 1.05-1.43 | 1.006 | 1.004 - 1.007 |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C | 1.06 | **M+2/M+4** | 1.28 | 1.05-1.43 | 0.899 | 0.897 - 0.901 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | | 1.23 | **M+2/M+4** | 1.26 | 1.05-1.43 | 0.938 | 0.937 - 0.939 |
| **2,3,3',4,5,5'-HxCB** | 159 | | | 1.15 | **M+2/M+4** | 1.28 | 1.05-1.43 | 0.982 | 0.981 - 0.983 |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,3,3',4,5',6-HxCB** | 161 | | | 1.26 | **M+2/M+4** | 1.29 | 1.05-1.43 | 0.887 | 0.886 - 0.888 |
| **2,3,3',4',5,5'-HxCB** | 162 | | | 1.16 | **M+2/M+4** | 1.29 | 1.05-1.43 | 0.989 | 0.988 - 0.990 |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | | 1.17 | **M+2/M+4** | 1.14 | 1.05-1.43 | 0.921 | 0.920 - 0.922 |
| **2,3,3',5,5',6-HxCB** | 165 | | | 1.04 | **M+2/M+4** | 1.25 | 1.05-1.43 | 0.878 | 0.877 - 0.879 |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | | 1.08 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.000 | 0.999 - 1.001 |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C | 0.65 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.162 | 1.159 - 1.164 |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | | 0.69 | **M+2/M+4** | 1.04 | 0.89-1.21 | 0.897 | 0.896 - 0.898 |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | | 0.72 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.133 | 1.132 - 1.134 |
| **2,2',3,3',4,5',6-HpCB** | 175 | | | 0.70 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.102 | 1.101 - 1.104 |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | | 0.97 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.034 | 1.033 - 1.036 |
| **2,2',3,3',4',5,6-HpCB** | 177 | | | 0.78 | **M+2/M+4** | 1.06 | 0.89-1.21 | 1.145 | 1.144 - 1.146 |
| **2,2',3,3',5,5',6-HpCB** | 178 | | | 0.69 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.085 | 1.083 - 1.086 |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | | 1.00 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.010 | 1.008 - 1.011 |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C | 0.97 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.000 | 0.999 - 1.001 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | | 0.69 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.156 | 1.155 - 1.158 |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | | 0.85 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.115 | 1.114 - 1.116 |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C | 0.73 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.128 | 1.127 - 1.130 |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | | 1.06 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.025 | 1.023 - 1.026 |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | | 0.91 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.047 | 1.045 - 1.048 |
| **2,2',3,4',5,5',6-HpCB** | 187 | | | 0.74 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.110 | 1.108 - 1.111 |
| **2,3,3',4,4',5,6-HpCB** | 190 | | | 0.86 | **M+2/M+4** | 1.03 | 0.89-1.21 | 0.947 | 0.946 - 0.948 |
| **2,3,3',4,4',5',6-HpCB** | 191 | | | 0.88 | **M+2/M+4** | 1.06 | 0.89-1.21 | 0.917 | 0.917 - 0.918 |
| **2,3,3',4,5,5',6-HpCB** | 192 | | | 0.81 | **M+2/M+4** | 1.04 | 0.89-1.21 | 0.903 | 0.902 - 0.904 |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | | 0.78 | **M+2/M+4** | 0.91 | 0.76-1.02 | 0.991 | 0.990 - 0.992 |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | | 0.84 | **M+2/M+4** | 0.89 | 0.76-1.02 | 0.945 | 0.945 - 0.946 |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | | 0.81 | **M+2/M+4** | 0.89 | 0.76-1.02 | 0.916 | 0.915 - 0.917 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C | 1.24 | **M+2/M+4** | 0.90 | 0.76-1.02 | 1.046 | 1.043 - 1.049 |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C | 0.72 | **M+2/M+4** | 0.88 | 0.76-1.02 | 1.114 | 1.112 - 1.116 |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | | 1.05 | **M+2/M+4** | 0.91 | 0.76-1.02 | 1.023 | 1.021 - 1.025 |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | | 0.81 | **M+2/M+4** | 0.91 | 0.76-1.02 | 0.920 | 0.919 - 0.921 |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | | 1.02 | **M+2/M+4** | 0.89 | 0.76-1.02 | 1.039 | 1.038 - 1.040 |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | | 1.13 | **M+2/M+4** | 0.79 | 0.65-0.89 | 1.020 | 1.019 - 1.021 |

(1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(4) PCB Congener numbers 107, 108, and 109 defined as per EPA1668C specifications.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form1668346A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_129S1__Form346A_SJ2197835_GS69731.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 3B**

**PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **CAL Data Filename:** | PB7C_129 S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:07:04 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RRF | MZ's FORMING RATIO [3] | ION ABUND. RATIO | RATIO QC LIMITS [4] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 0.96 | **M/M+2** | 3.19 | 2.66-3.60 | 0.718 | 0.702 - 0.734 |
| **13C12-4-MoCB** | 3L | | | 0.93 | **M/M+2** | 3.13 | 2.66-3.60 | 0.857 | 0.842 - 0.873 |
| **13C12-2,2'-DiCB** | 4L | | | 0.61 | **M/M+2** | 1.59 | 1.33-1.79 | 0.873 | 0.857 - 0.889 |
| **13C12-4,4'-DiCB** | 15L | | | 1.01 | **M/M+2** | 1.56 | 1.33-1.79 | 1.253 | 1.237 - 1.268 |
| **13C12-2,2',6-TriCB** | 19L | | | 0.51 | **M/M+2** | 1.05 | 0.88-1.20 | 1.072 | 1.056 - 1.087 |
| **13C12-3,4,4'-TriCB** | 37L | | | 1.67 | **M/M+2** | 1.06 | 0.88-1.20 | 1.091 | 1.081 - 1.101 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 1.35 | **M/M+2** | 0.81 | 0.65-0.89 | 0.811 | 0.805 - 0.818 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 1.28 | **M/M+2** | 0.79 | 0.65-0.89 | 1.396 | 1.389 - 1.402 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 1.28 | **M/M+2** | 0.78 | 0.65-0.89 | 1.372 | 1.366 - 1.379 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 1.40 | **M+2/M+4** | 1.58 | 1.32-1.78 | 0.809 | 0.803 - 0.814 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 1.25 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.199 | 1.194 - 1.204 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 1.24 | **M+2/M+4** | 1.61 | 1.32-1.78 | 1.178 | 1.173 - 1.184 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 1.27 | **M+2/M+4** | 1.61 | 1.32-1.78 | 1.161 | 1.156 - 1.167 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 1.29 | **M+2/M+4** | 1.58 | 1.32-1.78 | 1.151 | 1.146 - 1.156 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 1.09 | **M+2/M+4** | 1.62 | 1.32-1.78 | 1.300 | 1.295 - 1.305 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 1.54 | **M+2/M+4** | 1.26 | 1.05-1.43 | 0.786 | 0.782 - 0.791 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 1.16 | **M+2/M+4** | 1.27 | 1.05-1.43 | 1.107 | 1.103 - 1.111 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 1.17 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.078 | 1.074 - 1.082 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 1.15 | **M+2/M+4** | 1.28 | 1.05-1.43 | 1.191 | 1.187 - 1.195 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 1.04 | **M+2/M+4** | 1.05 | 0.89-1.21 | 0.897 | 0.894 - 0.900 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 1.28 | **M+2/M+4** | 1.04 | 0.89-1.21 | 0.872 | 0.869 - 0.876 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 1.88 | **M+2/M+4** | 1.06 | 0.89-1.21 | 0.712 | 0.709 - 0.715 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 1.73 | **M+2/M+4** | 1.05 | 0.89-1.21 | 0.959 | 0.956 - 0.962 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 1.61 | **M+2/M+4** | 0.90 | 0.76-1.02 | 0.818 | 0.815 - 0.821 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 1.42 | **M+2/M+4** | 0.91 | 0.76-1.02 | 1.009 | 1.005 - 1.014 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 0.99 | **M+2/M+4** | 0.79 | 0.65-0.89 | 1.043 | 1.039 - 1.048 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 1.37 | **M+2/M+4** | 0.76 | 0.65-0.89 | 0.949 | 0.946 - 0.952 |

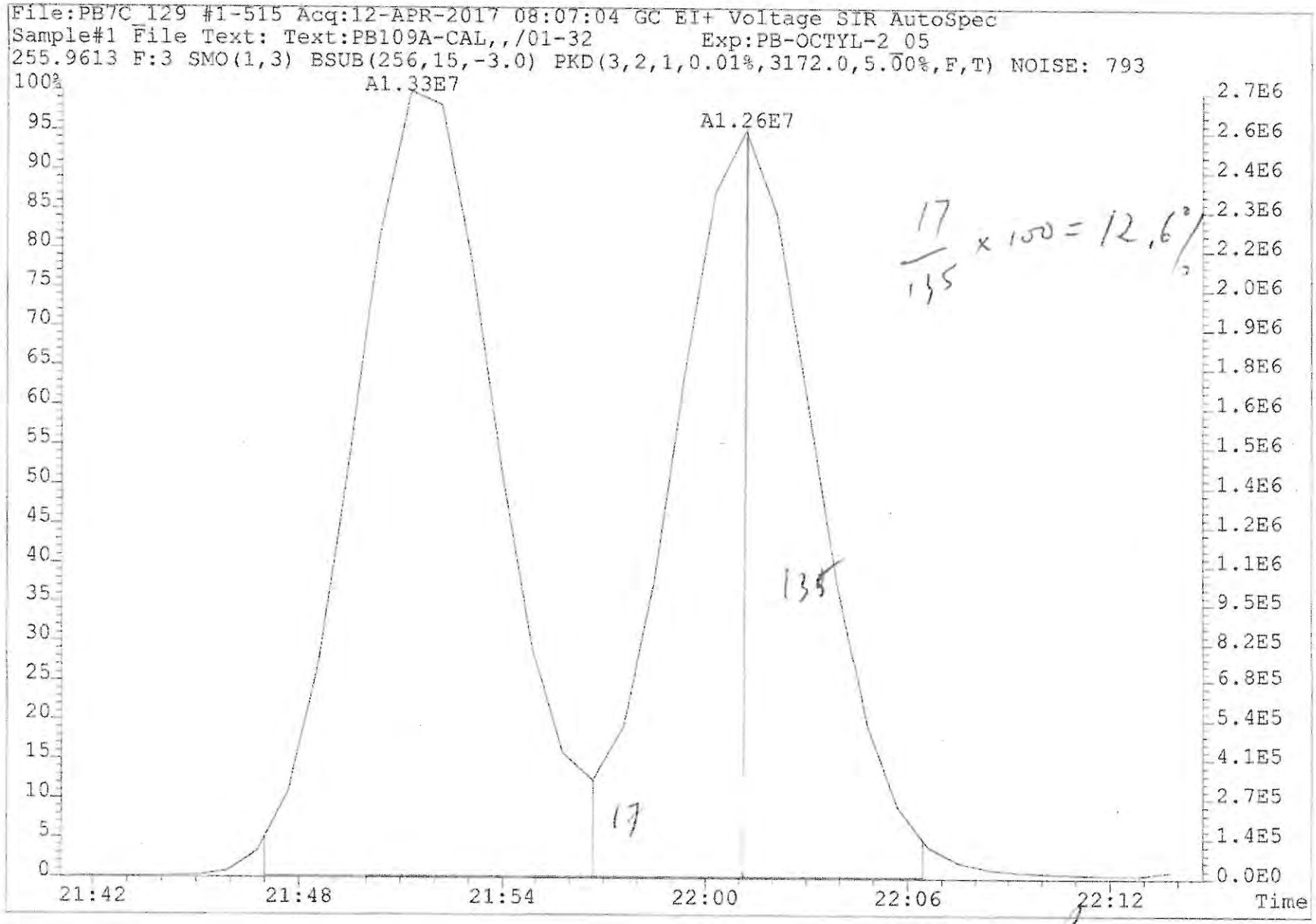
(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

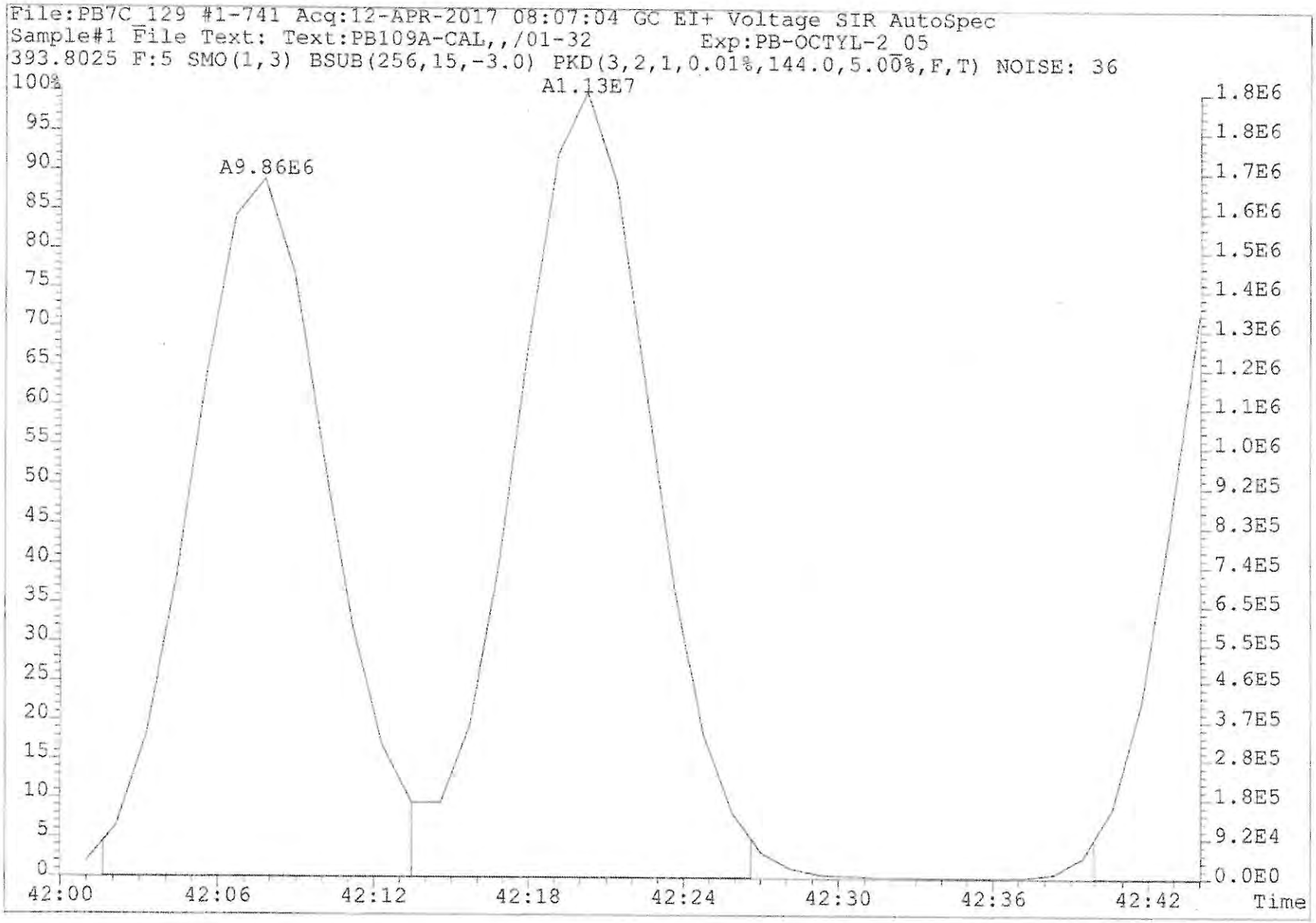
Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form1668346B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_129S1__Form346B_SJ2197835_GS69731.html; Workgroup: WG58451; Design ID: 2063 ]

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pvby A 15 Apr 17


File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T) NOISE: 36
A1.13E7
A9.86E6
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1.8E6
1.8E6
1.7E6
1.6E6
1.5E6
1.4E6
1.3E6
1.2E6
1.1E6
1.0E6
9.2E5
8.3E5
7.4E5
6.5E5
5.5E5
4.6E5
3.7E5
2.8E5
1.8E5
9.2E4
0.0E0
42:00
42:06
42:12
42:18
42:24
42:30
42:36
42:42
Time

MyD 15 Apr 17

**AXYS METHOD MLA-010 Rev 11**

**Form 4A**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 18:49:36 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | MZ's FORMING RATIO [2] | ION ABUND. RATIO | QC LIMITS [3] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | **M/M+2** | 3.14 | 2.66-3.60 | 25.3 | 18.8 - 31.3 |
| **4-MoCB** | 3 | | | **M/M+2** | 3.16 | 2.66-3.60 | 26.4 | 18.8 - 31.3 |
| **2,2'-DiCB** | 4 | | | **M/M+2** | 1.57 | 1.33-1.79 | 25.5 | 18.8 - 31.3 |
| **4,4'-DiCB** | 15 | | | **M/M+2** | 1.56 | 1.33-1.79 | 29.6 | 21.0 - 35.0 |
| **2,2',6-TriCB** | 19 | | | **M/M+2** | 1.05 | 0.88-1.20 | 27.3 | 18.8 - 31.3 |
| **3,4,4'-TriCB** | 37 | | | **M/M+2** | 1.05 | 0.88-1.20 | 25.7 | 18.8 - 31.3 |
| **2,2',6,6'-TeCB** | 54 | | | **M/M+2** | 0.78 | 0.65-0.89 | 51.6 | 37.5 - 62.5 |
| **3,3',4,4'-TeCB** | 77 | | | **M/M+2** | 0.78 | 0.65-0.89 | 50.5 | 37.5 - 62.5 |
| **3,4,4',5-TeCB** | 81 | | | **M/M+2** | 0.79 | 0.65-0.89 | 53.7 | 37.5 - 62.5 |
| **2,2',4,6,6'-PeCB** | 104 | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 53.1 | 37.5 - 62.5 |
| **2,3,3',4,4'-PeCB** | 105 | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 54.0 | 37.5 - 62.5 |
| **2,3,4,4',5-PeCB** | 114 | | | **M+2/M+4** | 1.53 | 1.32-1.78 | 53.4 | 37.5 - 62.5 |
| **2,3',4,4',5-PeCB** | 118 | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 51.7 | 37.5 - 62.5 |
| **2',3,4,4',5-PeCB** | 123 | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 52.2 | 37.5 - 62.5 |
| **3,3',4,4',5-PeCB** | 126 | | | **M+2/M+4** | 1.62 | 1.32-1.78 | 56.0 | 41.8 - 69.6 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | **M+2/M+4** | 1.29 | 1.05-1.43 | 52.1 | 37.5 - 62.5 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | **M+2/M+4** | 1.28 | 1.05-1.43 | 103 | 75.0 - 125 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | **M+2/M+4** | 1.20 | 1.05-1.43 | 55.4 | 37.5 - 62.5 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | **M+2/M+4** | 1.33 | 1.05-1.43 | 59.6 | 37.5 - 62.5 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | **M+2/M+4** | 1.02 | 0.89-1.21 | 50.5 | 37.5 - 62.5 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 51.1 | 37.5 - 62.5 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | **M+2/M+4** | 0.89 | 0.76-1.02 | 85.8 | 63.2 - 105 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 79.7 | 56.3 - 93.8 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | **M+2/M+4** | 0.78 | 0.65-0.89 | 79.2 | 56.3 - 93.8 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | **M+2/M+4** | 0.79 | 0.65-0.89 | 85.4 | 62.9 - 105 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | **M+4/M+6** | 1.18 | 0.99-1.33 | 76.1 | 56.3 - 93.8 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16684A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_129S11__Form4A_SJ2197892.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 4B**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 18:49:36 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | MZ's FORMING RATIO [3] | ION ABUND. RATIO | QC LIMITS [4] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | **M/M+2** | 3.20 | 2.66-3.60 | 93.8 | 50.0 - 145 |
| **13C12-4-MoCB** | 3L | | | **M/M+2** | 3.14 | 2.66-3.60 | 90.3 | 50.0 - 145 |
| **13C12-2,2'-DiCB** | 4L | | | **M/M+2** | 1.60 | 1.33-1.79 | 94.2 | 50.0 - 145 |
| **13C12-4,4'-DiCB** | 15L | | | **M/M+2** | 1.60 | 1.33-1.79 | 92.9 | 50.0 - 145 |
| **13C12-2,2',6-TriCB** | 19L | | | **M/M+2** | 1.05 | 0.88-1.20 | 88.0 | 50.0 - 145 |
| **13C12-3,4,4'-TriCB** | 37L | | | **M/M+2** | 1.06 | 0.88-1.20 | 93.5 | 50.0 - 145 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | **M/M+2** | 0.80 | 0.65-0.89 | 91.1 | 50.0 - 145 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | **M/M+2** | 0.78 | 0.65-0.89 | 90.1 | 50.0 - 145 |
| **13C12-3,4,4',5-TeCB** | 81L | | | **M/M+2** | 0.78 | 0.65-0.89 | 90.0 | 50.0 - 145 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | **M+2/M+4** | 1.59 | 1.32-1.78 | 93.2 | 50.0 - 145 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | **M+2/M+4** | 1.61 | 1.32-1.78 | 96.1 | 50.0 - 145 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | **M+2/M+4** | 1.62 | 1.32-1.78 | 98.9 | 50.0 - 145 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | **M+2/M+4** | 1.61 | 1.32-1.78 | 99.5 | 50.0 - 145 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 100 | 50.0 - 145 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 91.8 | 50.0 - 145 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | **M+2/M+4** | 1.24 | 1.05-1.43 | 88.8 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | **M+2/M+4** | 1.27 | 1.05-1.43 | 177 | 100 - 290 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 90.5 | 50.0 - 145 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | **M+2/M+4** | 1.27 | 1.05-1.43 | 90.7 | 50.0 - 145 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | **M+2/M+4** | 1.06 | 0.89-1.21 | 80.1 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | **M+2/M+4** | 1.07 | 0.89-1.21 | 103 | 50.0 - 145 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 72.5 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | **M+2/M+4** | 0.89 | 0.76-1.02 | 91.6 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | **M+2/M+4** | 0.76 | 0.65-0.89 | 87.3 | 50.0 - 145 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | **M+2/M+4** | 0.76 | 0.65-0.89 | 85.7 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | **M+4/M+6** | 1.17 | 0.99-1.33 | 85.7 | 50.0 - 145 |
| **CLEAN-UP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | **M/M+2** | 1.05 | 0.88-1.20 | 99.5 | 65.0 - 135 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 96.4 | 75.0 - 125 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | **M+2/M+4** | 1.04 | 0.89-1.21 | 90.0 | 75.0 - 125 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 6A**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 18:49:36 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RETENTION TIME REFERENCE | IUPAC NO. [2] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | 13C12-2-MoCB | 1L | 1.001 | 0.999-1.004 |
| **4-MoCB** | 3 | | | 13C12-4-MoCB | 3L | 1.001 | 0.999-1.004 |
| **2,2'-DiCB** | 4 | | | 13C12-2,2'-DiCB | 4L | 1.001 | 0.999-1.004 |
| **4,4'-DiCB** | 15 | | | 13C12-4,4'-DiCB | 15L | 1.001 | 0.999-1.002 |
| **2,2',6-TriCB** | 19 | | | 13C12-2,2',6-TriCB | 19L | 1.001 | 0.999-1.003 |
| **3,4,4'-TriCB** | 37 | | | 13C12-3,4,4'-TriCB | 37L | 1.001 | 0.999-1.002 |
| **2,2',6,6'-TeCB** | 54 | | | 13C12-2,2',6,6'-TeCB | 54L | 1.001 | 0.999-1.002 |
| **3,3',4,4'-TeCB** | 77 | | | 13C12-3,3',4,4'-TeCB | 77L | 1.001 | 1.000-1.001 |
| **3,4,4',5-TeCB** | 81 | | | 13C12-3,4,4',5-TeCB | 81L | 1.000 | 1.000-1.001 |
| **2,2',4,6,6'-PeCB** | 104 | | | 13C12-2,2',4,6,6'-PeCB | 104L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4'-PeCB** | 105 | | | 13C12-2,3,3',4,4'-PeCB | 105L | 1.001 | 1.000-1.001 |
| **2,3,4,4',5-PeCB** | 114 | | | 13C12-2,3,4,4',5-PeCB | 114L | 1.001 | 1.000-1.001 |
| **2,3',4,4',5-PeCB** | 118 | | | 13C12-2,3',4,4',5-PeCB | 118L | 1.001 | 1.000-1.001 |
| **2',3,4,4',5-PeCB** | 123 | | | 13C12-2',3,4,4',5-PeCB | 123L | 1.000 | 1.000-1.001 |
| **3,3',4,4',5-PeCB** | 126 | | | 13C12-3,3',4,4',5-PeCB | 126L | 1.001 | 1.000-1.001 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | 13C12-2,2',4,4',6,6'-HxCB | 155L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB | 156L/157L | 1.001 | 0.999-1.003 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 13C12-2,3',4,4',5,5'-HxCB | 167L | 1.001 | 1.000-1.001 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | 13C12-3,3',4,4',5,5'-HxCB | 169L | 1.001 | 1.000-1.001 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | 13C12-2,2',3,4',5,6,6'-HpCB | 188L | 1.001 | 1.000-1.001 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 13C12-2,3,3',4,4',5,5'-HpCB | 189L | 1.001 | 1.000-1.001 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 13C12-2,2',3,3',5,5',6,6'-OcCB | 202L | 1.000 | 1.000-1.001 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 13C12-2,3,3',4,4',5,5',6-OcCB | 205L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 13C12-2,2',3,3',4,4',5,5',6-NoCB | 206L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 13C12-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | 13C12-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 1.001 | 1.000-1.001 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16686A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_129S11__Form6A_SJ2197892.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 6B**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_129 S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 12-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 18:49:36 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RETENTION TIME REFERENCE | IUPAC NO. [1] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 13C12-2,5-DiCB | 9L | 0.718 | 0.687-0.749 |
| **13C12-4-MoCB** | 3L | | | 13C12-2,5-DiCB | 9L | 0.857 | 0.826-0.889 |
| **13C12-2,2'-DiCB** | 4L | | | 13C12-2,5-DiCB | 9L | 0.873 | 0.842-0.904 |
| **13C12-4,4'-DiCB** | 15L | | | 13C12-2,5-DiCB | 9L | 1.252 | 1.221-1.283 |
| **13C12-2,2',6-TriCB** | 19L | | | 13C12-2,5-DiCB | 9L | 1.071 | 1.040-1.102 |
| **13C12-3,4,4'-TriCB** | 37L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.091 | 1.071-1.111 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.811 | 0.797-0.824 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.396 | 1.382-1.409 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.372 | 1.359-1.386 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 0.808 | 0.798-0.818 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.199 | 1.189-1.210 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.178 | 1.168-1.189 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.161 | 1.151-1.172 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.151 | 1.140-1.161 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.300 | 1.290-1.310 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 0.786 | 0.778-0.794 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.107 | 1.099-1.116 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.077 | 1.069-1.086 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.191 | 1.183-1.200 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.712 | 0.706-0.718 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.959 | 0.952-0.965 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.818 | 0.811-0.824 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.009 | 1.000-1.019 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.043 | 1.034-1.053 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.949 | 0.943-0.955 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.075 | 1.065-1.084 |
| **CLEANUP STANDARD** | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.924 | 0.911-0.938 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.087 | 1.077-1.098 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.012 | 1.004-1.020 |

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16686B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_129S11__Form6B_SJ2197892.html; Workgroup: WG58451; Design ID: 2063 ]

www.axysanalytical.com





Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : OCTYL
Serial # : 54277-02A/55632
kPa : 288
Vol injected: 1.0UL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

Tune : BA
List : BA
Check :
LIMS :
Logfile:

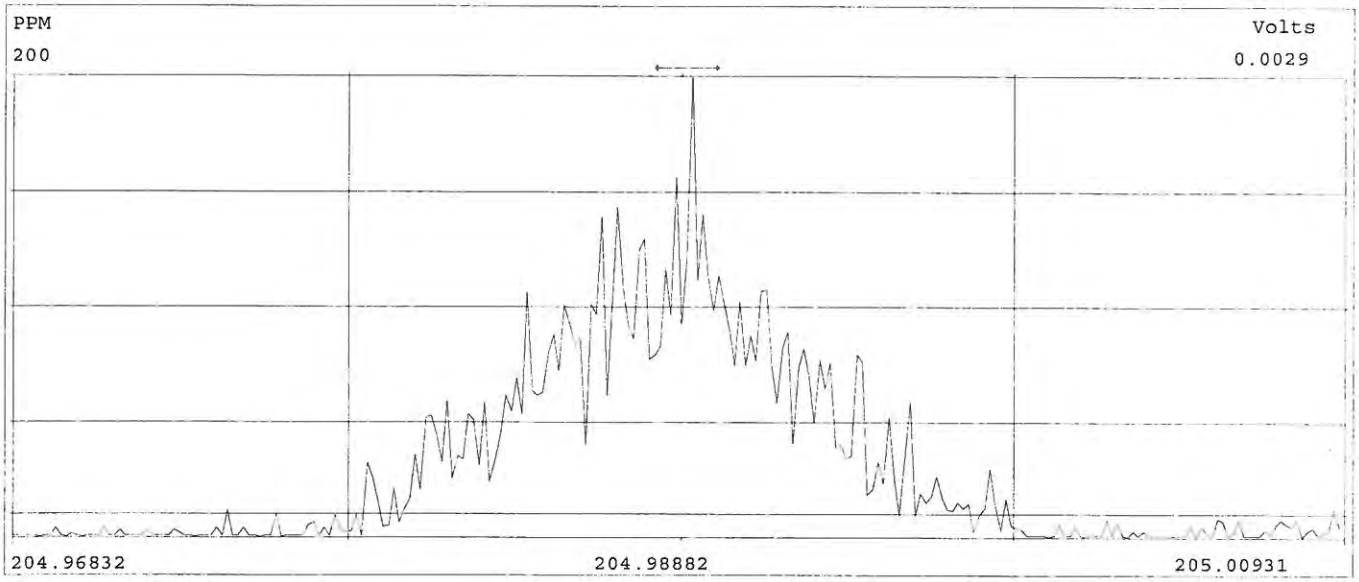
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-column: NEW 26-NOV-2016
-t line: NEW 26-NOV-2016

| # | Data file | S | V | Sample Text | Comments | Acquisition Date/Time |
|---|---|---|---|---|---|---|
| 1 | PB7C_131A | 1 | 1 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 17-APR-17 08:21:59 |
| 2 | PB7C_131A | 2 | 2 | WG59182-102,,SPM | 1,WG59182,1.0/20uL | 17-APR-17 09:26:17 |
| 3 | PB7C_131A | 3 | 3 | PB053A-SUR,,/01 | 1,,1.0uL Inst Blank | 17-APR-17 10:30:41 |
| 4 | PB7C_131A | 4 | 4 | WG59182-101,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 11:34:54 |
| 5 | PB7C_131A | 5 | 5 | WG59182-103,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 12:39:03 |
| 6 | PB7C_131A | 6 | 6 | WG59182-104,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 13:43:22 |
| 7 | PB7C_131A | 7 | 7 | L27062-3,I, | 1,WG58451,1.0/20uL | 17-APR-17 14:47:36 |
| 8 | PB7C_131A | 8 | 8 | L27084-1,, | 1,WG59182,1.0/20uL | 17-APR-17 15:51:49 |
| 9 | PB7C_131A | 9 | 9 | L27084-2,, | 1,WG59182,1.0/20uL | 17-APR-17 16:56:04 |
| 10 | PB7C_131A | 10 | 10 | L27084-3,, | 1,WG59182,1.0/20uL | 17-APR-17 18:00:18 |
| 11 | PB7C_131A | 11 | 11 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 17-APR-17 19:04:30 |

Peak Locate Examination:17-APR-2017:08:18 File:PB7C_131ACAL
Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

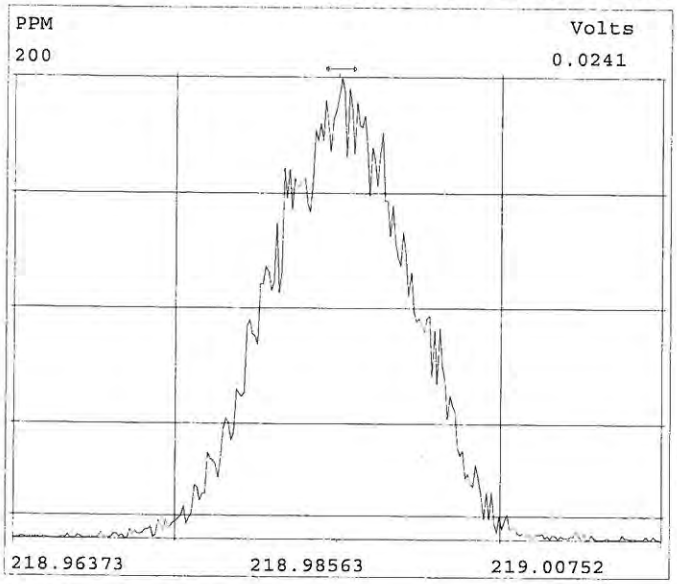
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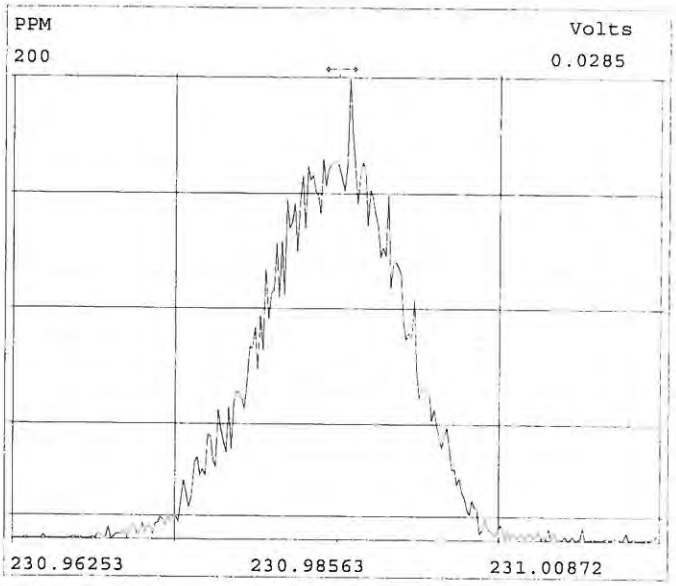


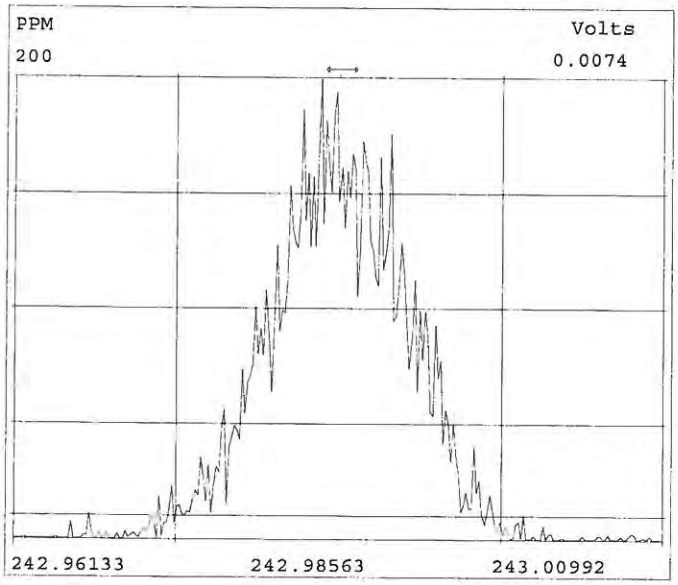



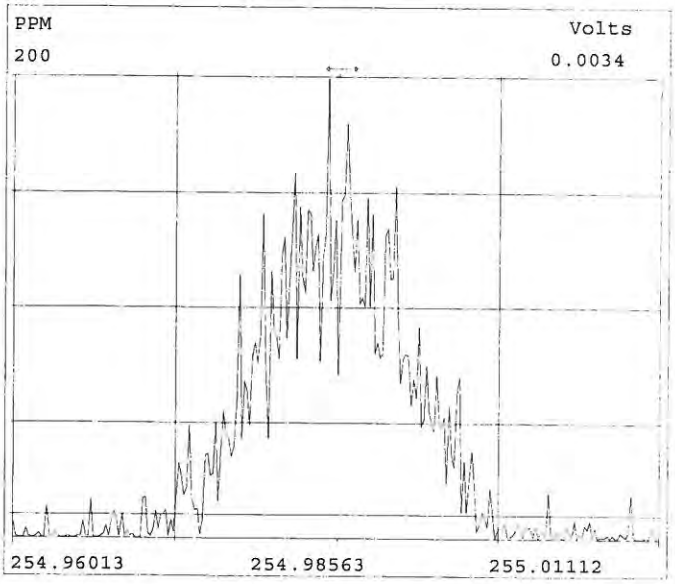


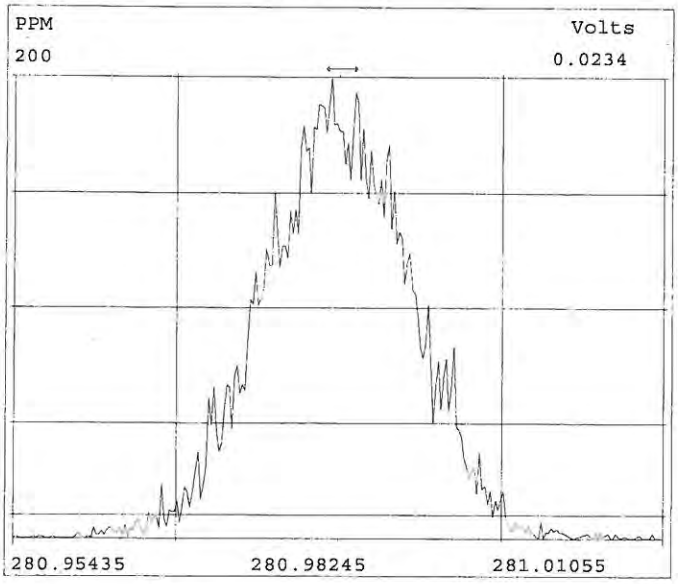

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Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668

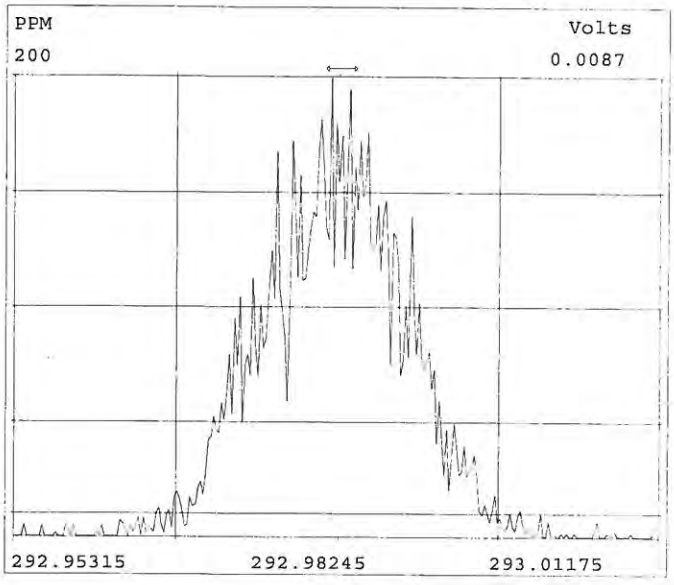


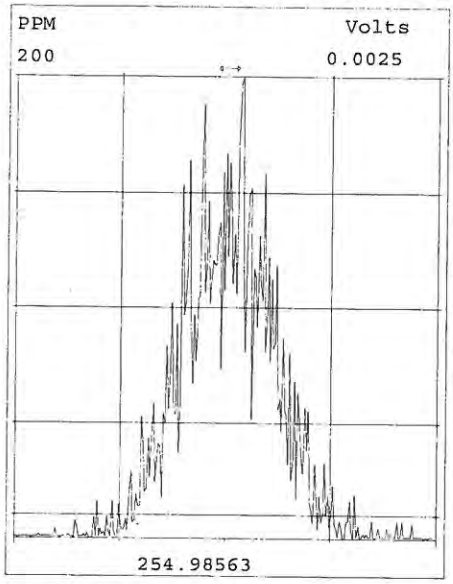



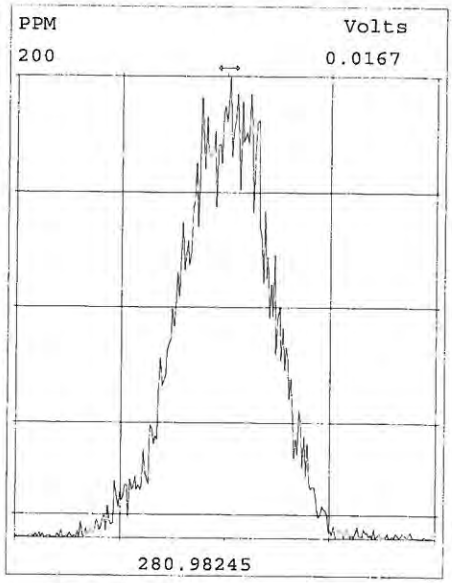



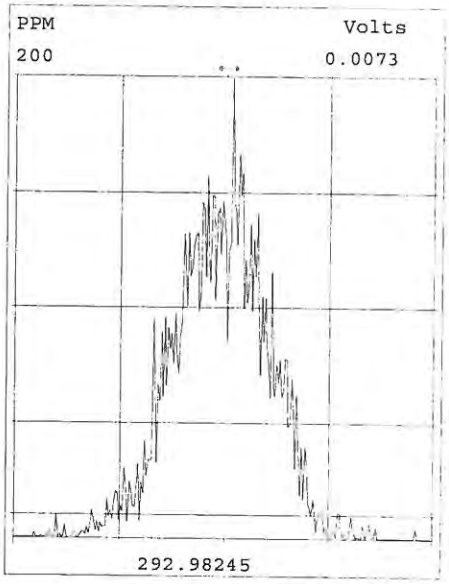



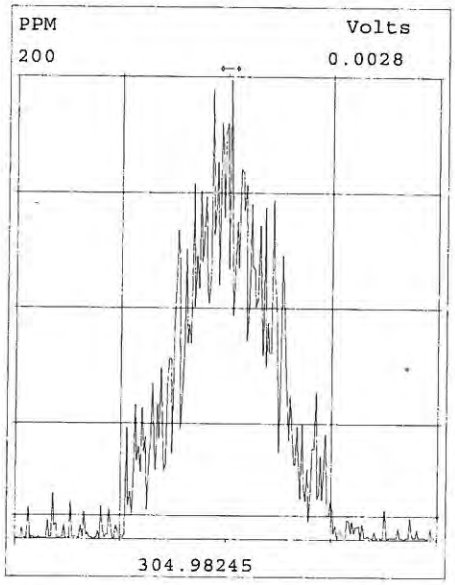



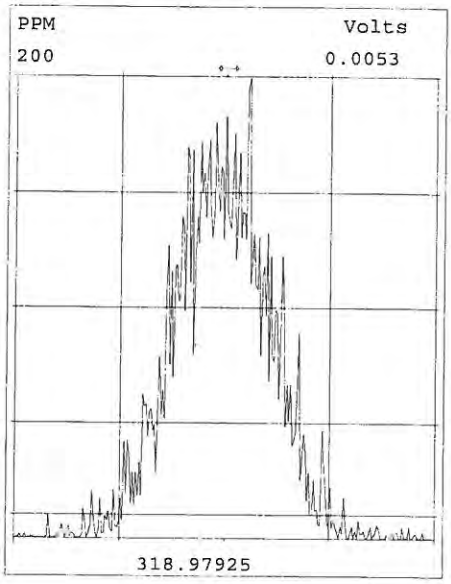
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Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

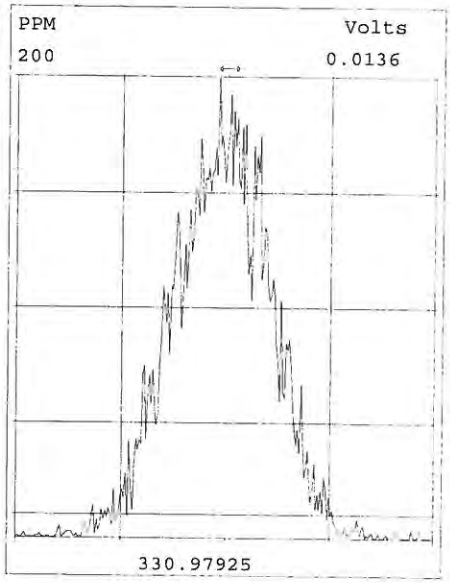


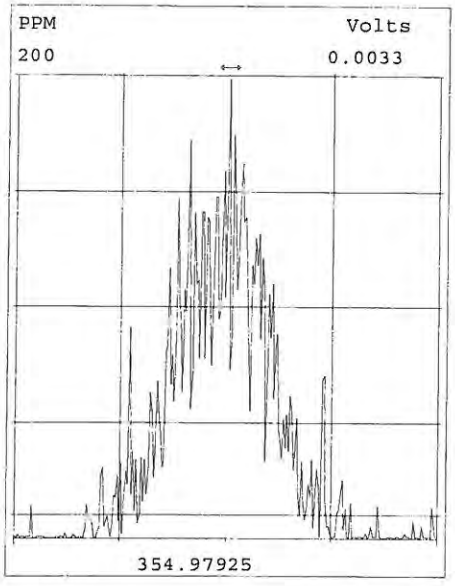



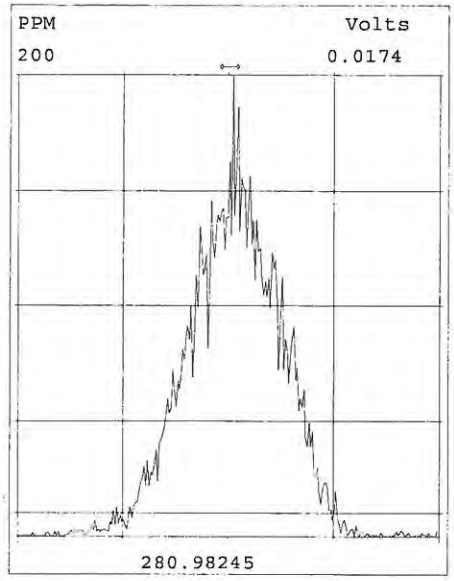



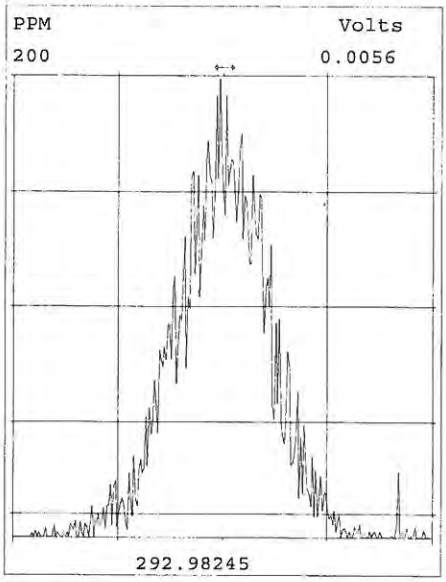



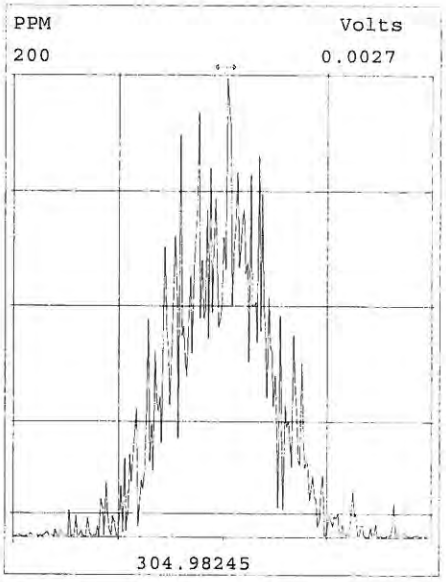



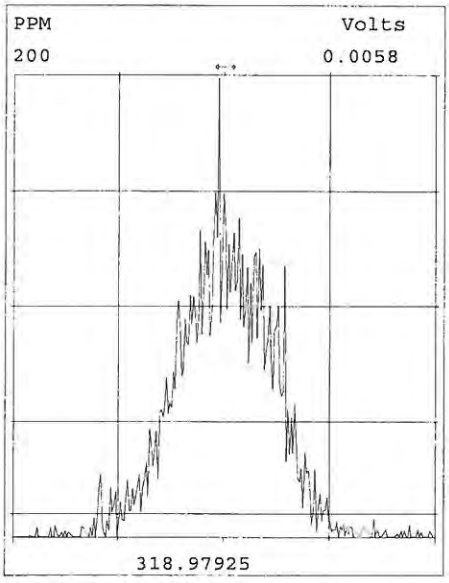



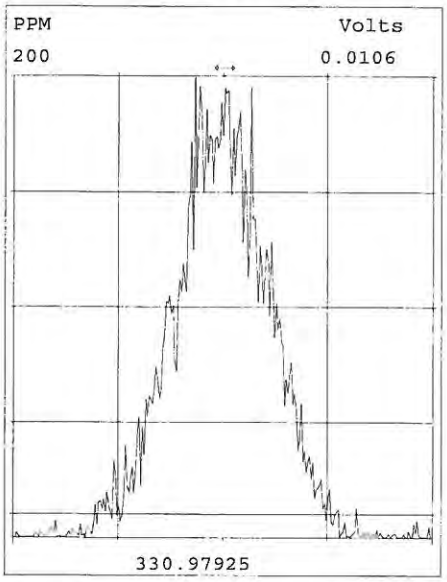
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Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

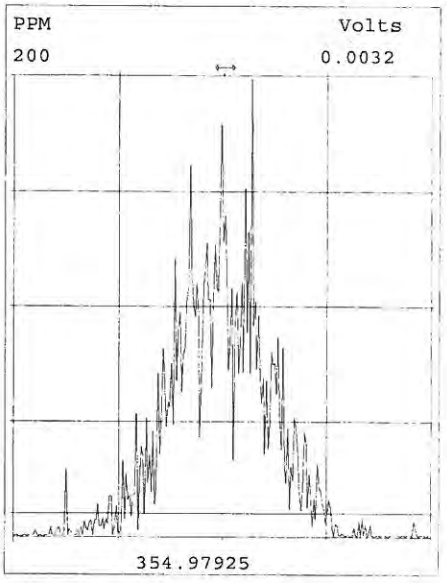


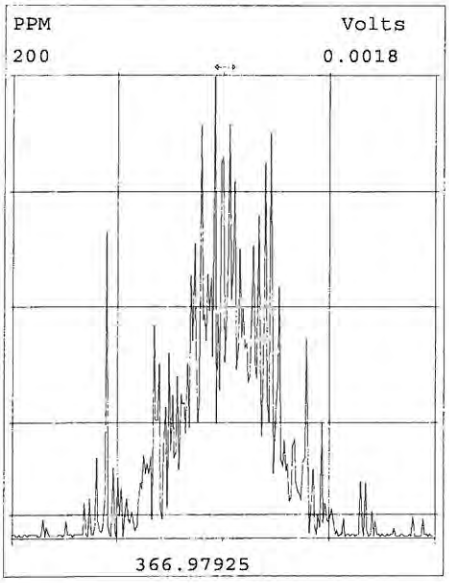



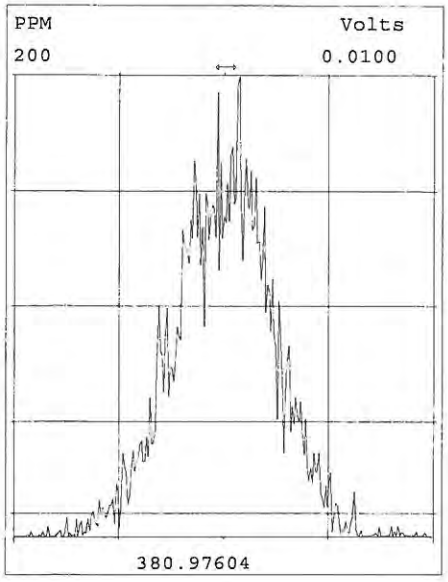



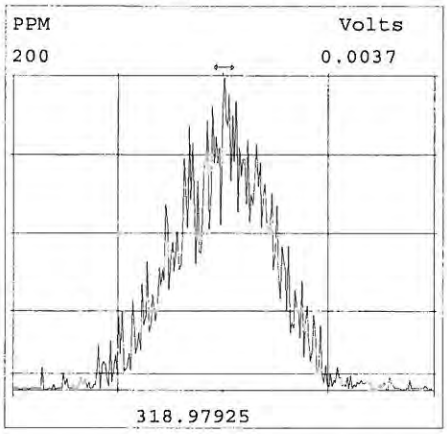



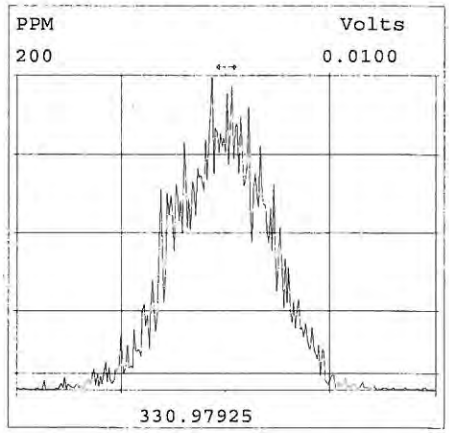



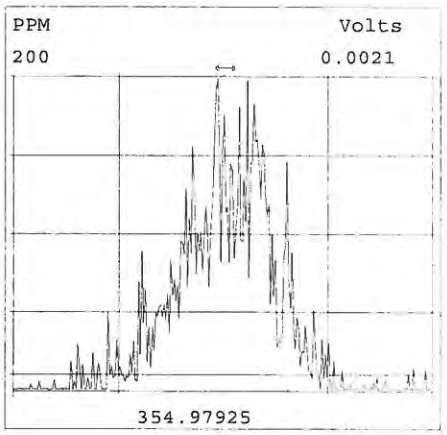



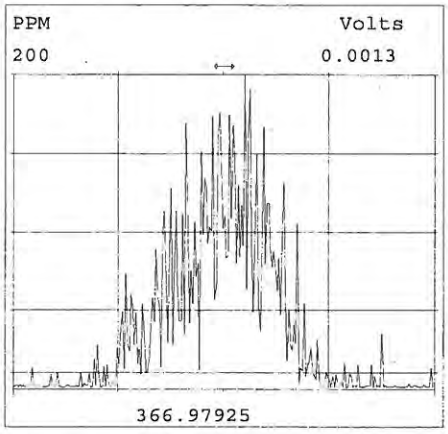



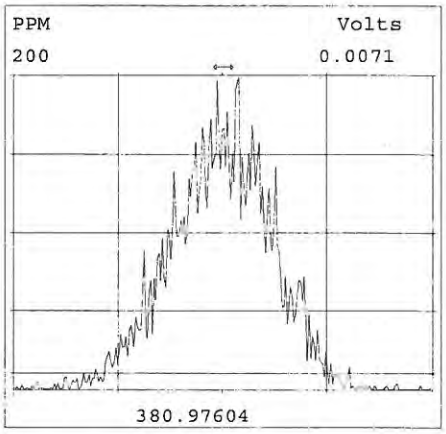
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Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

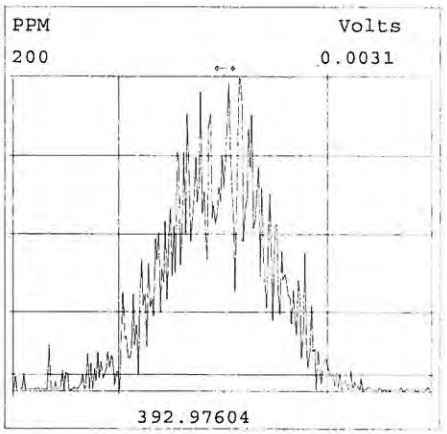


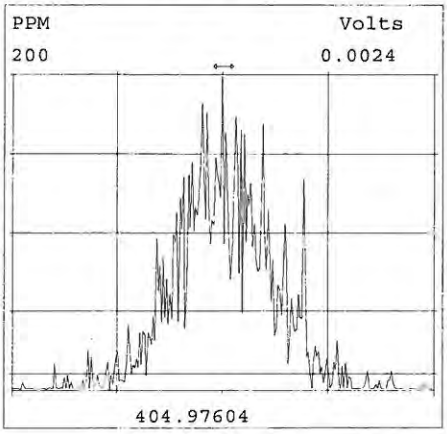



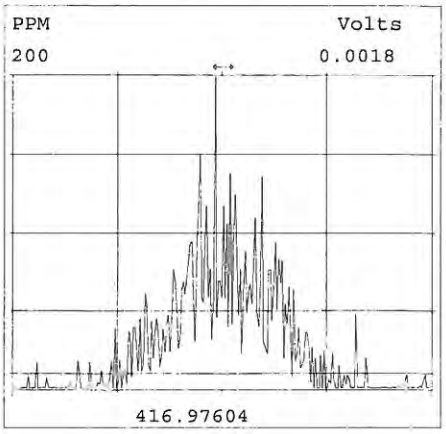



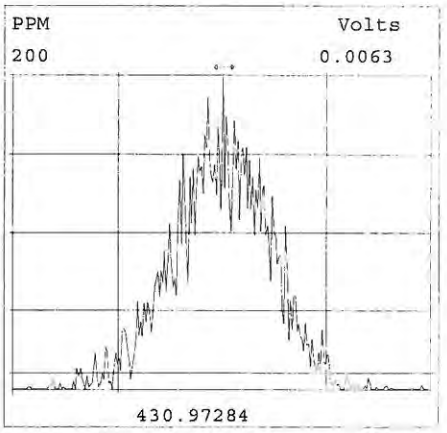



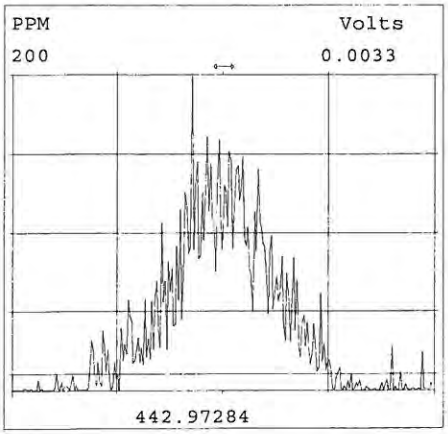



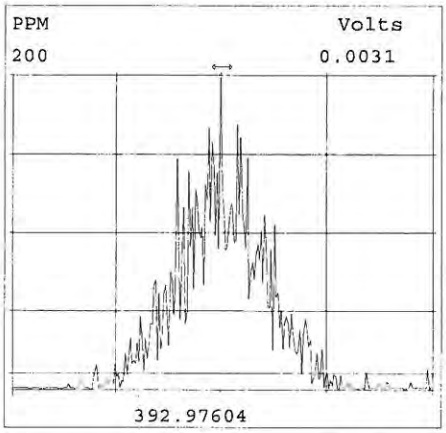



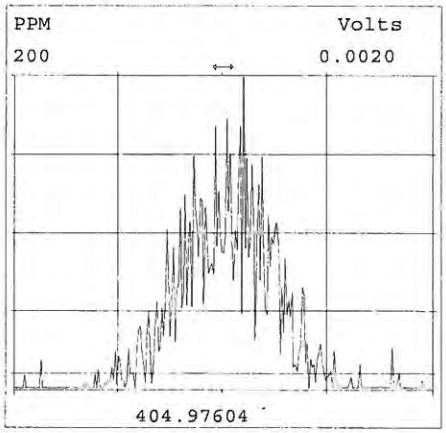



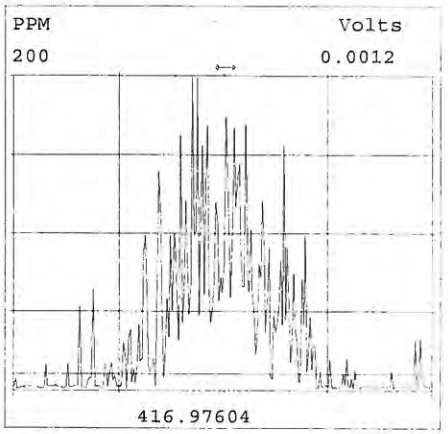



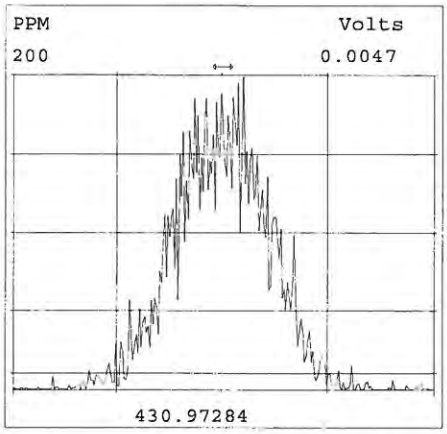



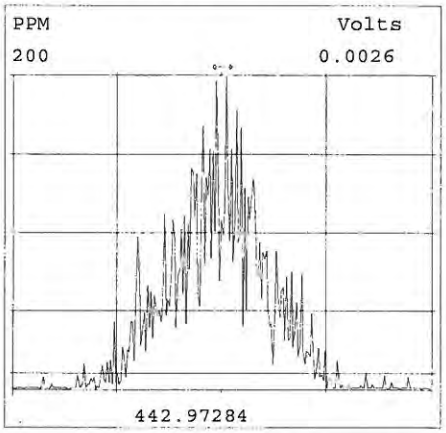
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Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

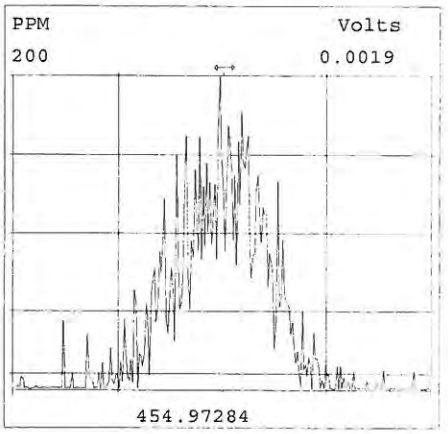


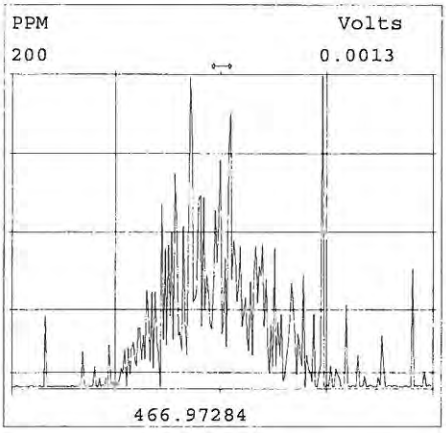



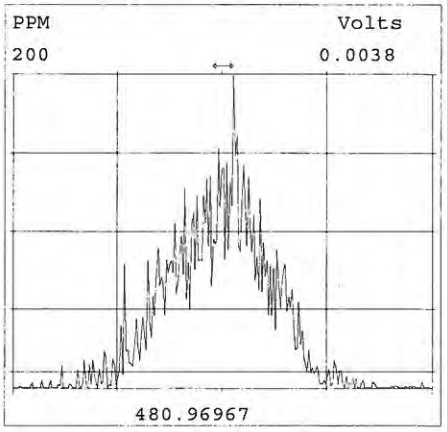



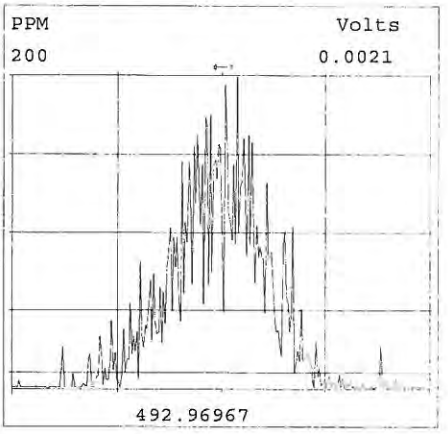



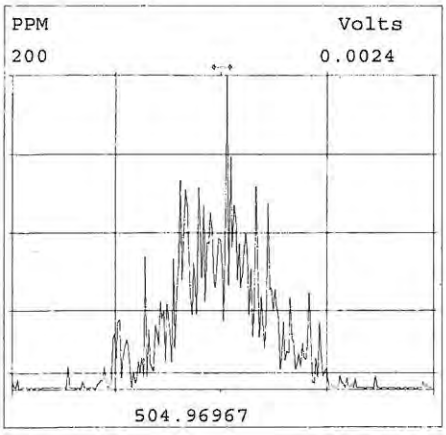



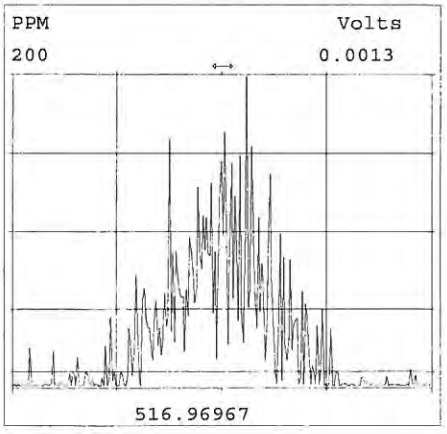



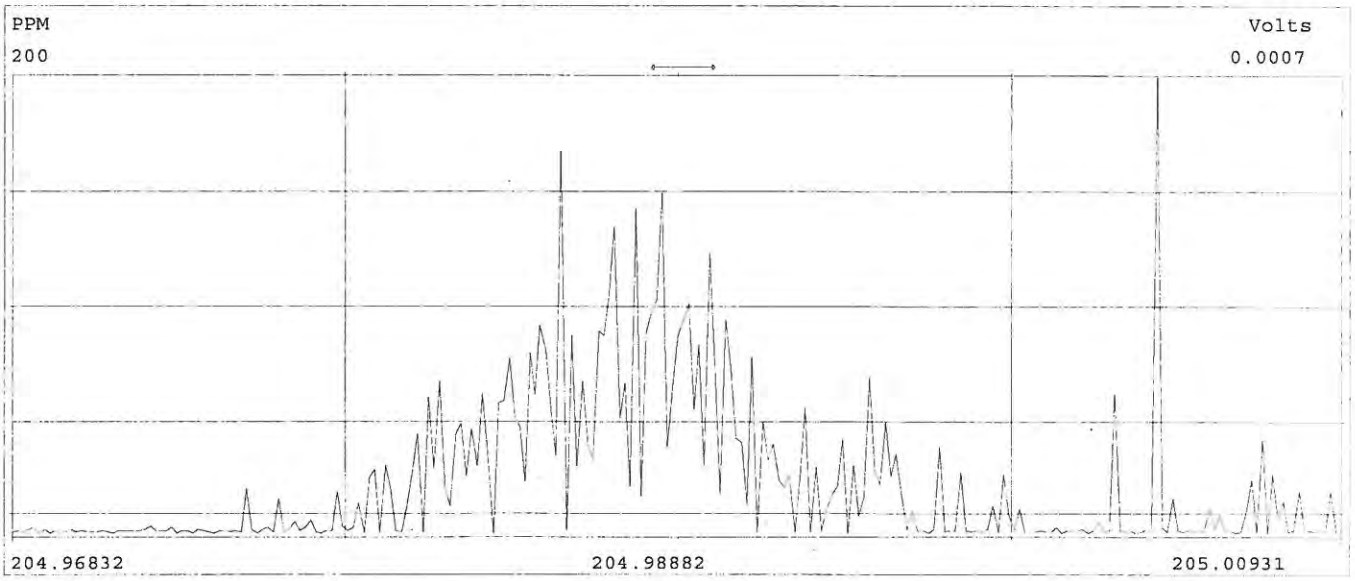



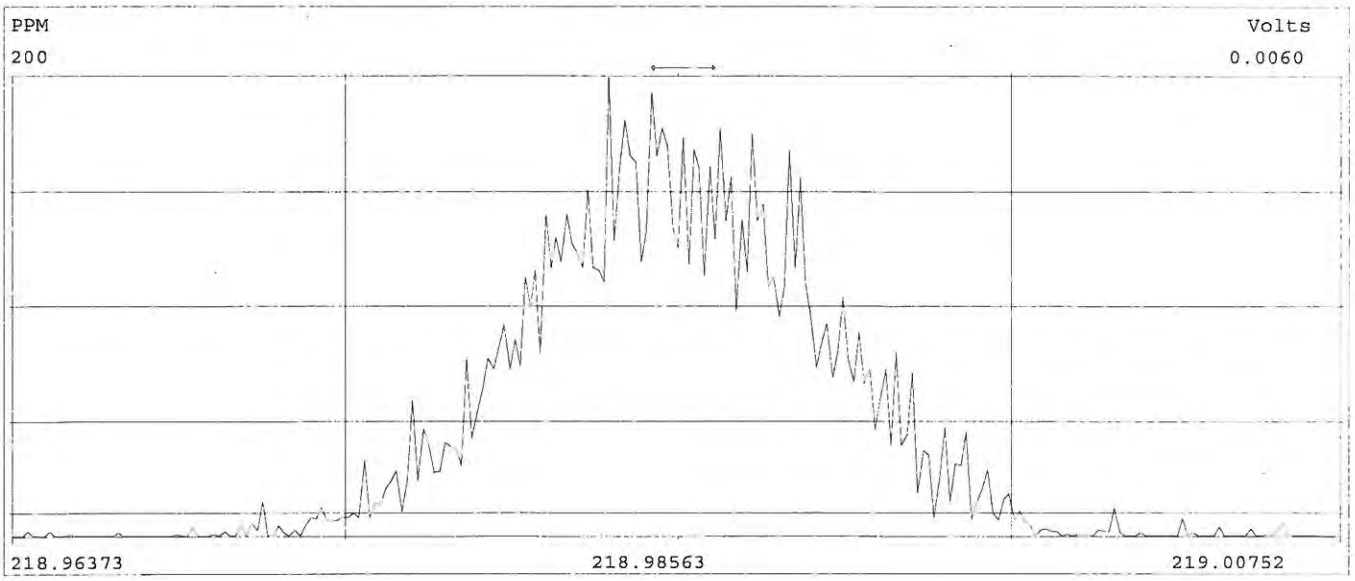



Approved 17 Apr 17 AEW

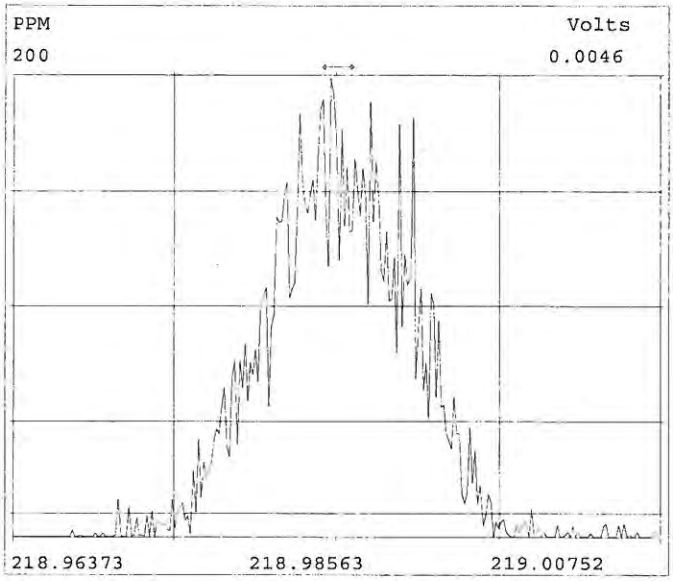
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Experiment:PB-OCTYL-2_05 Function:1 Reference:PFK_1668

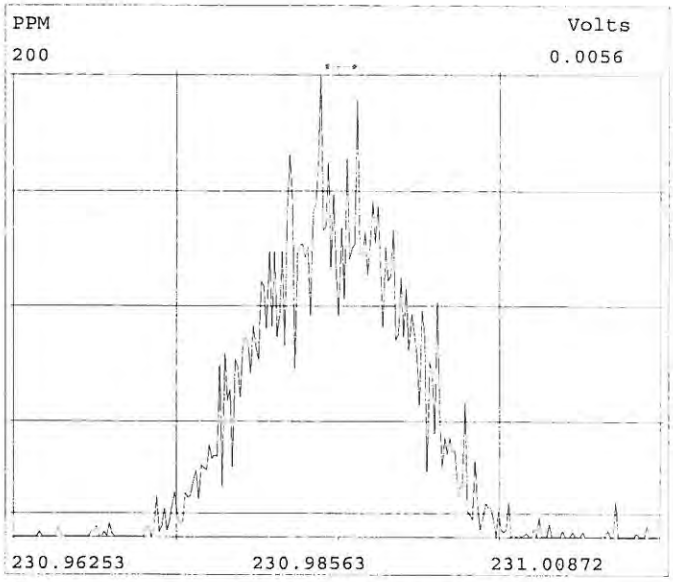


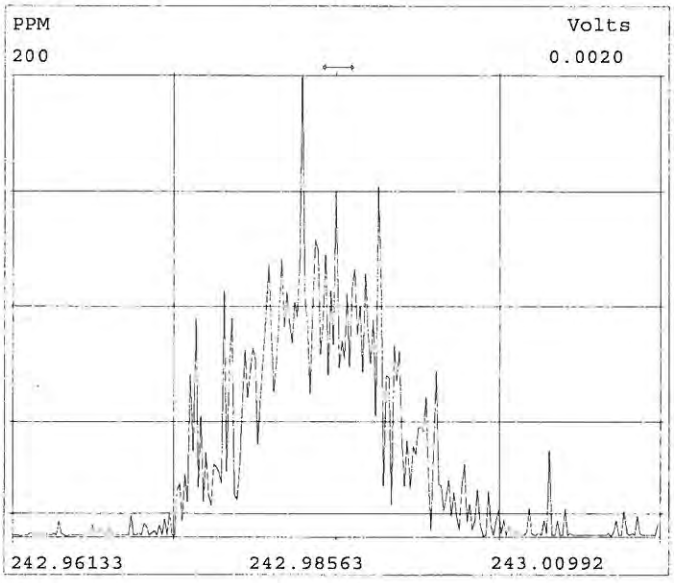



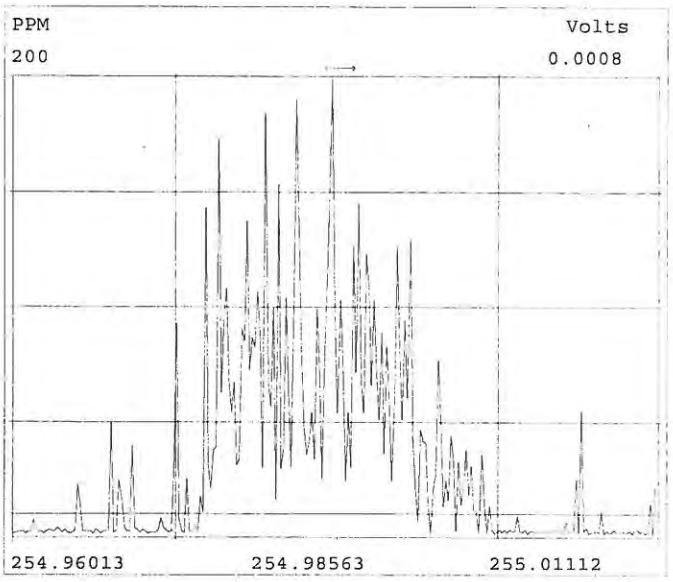



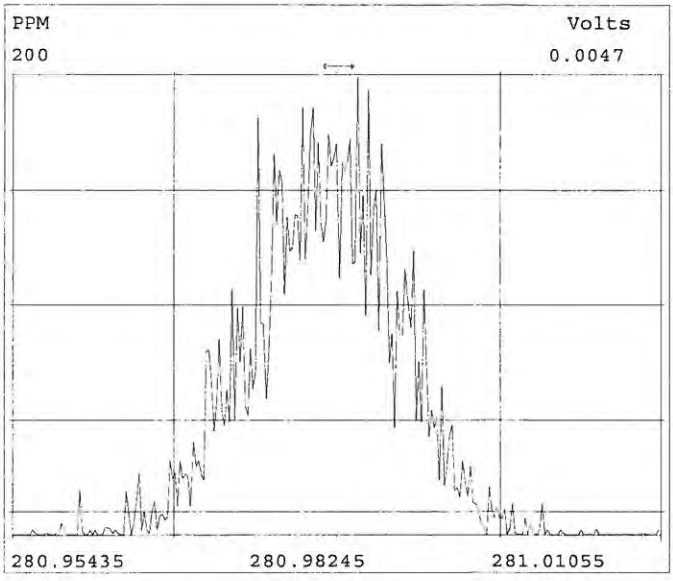
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Experiment:PB-OCTYL-2_05 Function:2 Reference:PFK_1668

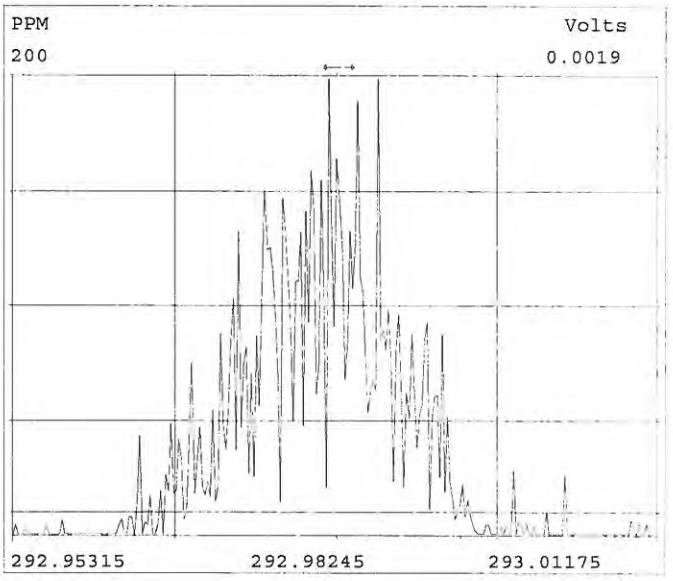


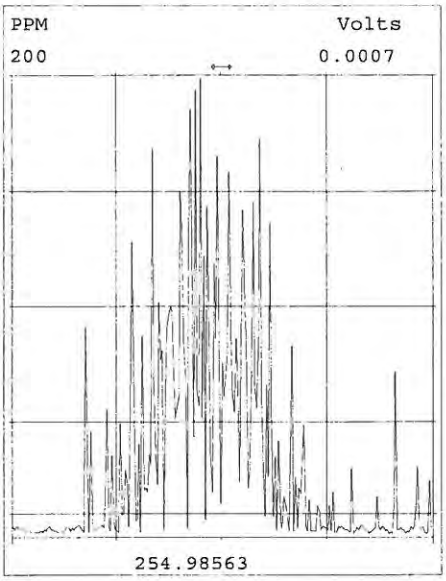



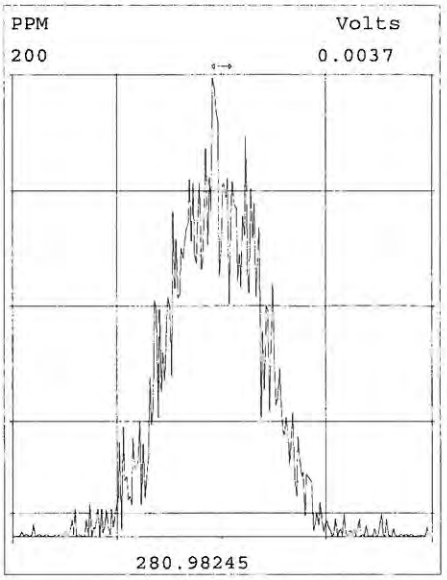



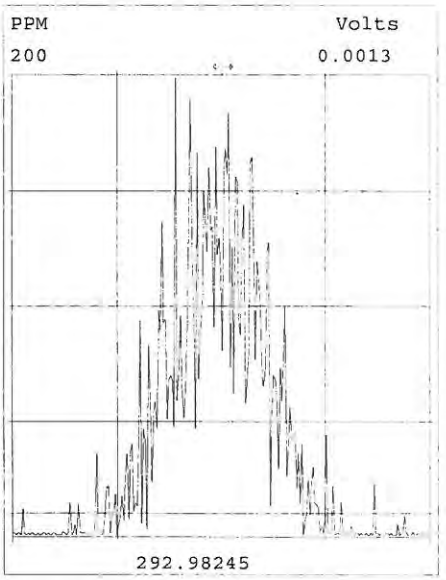



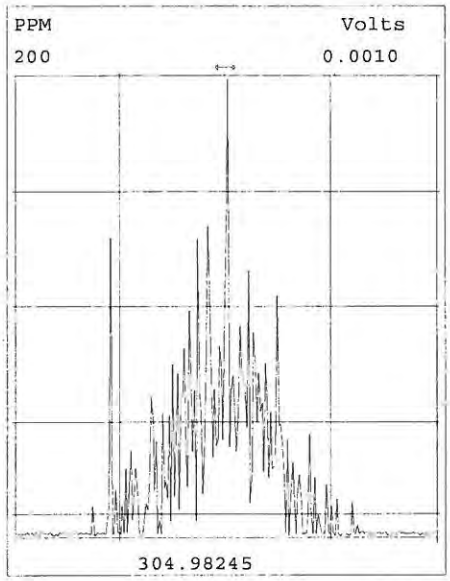



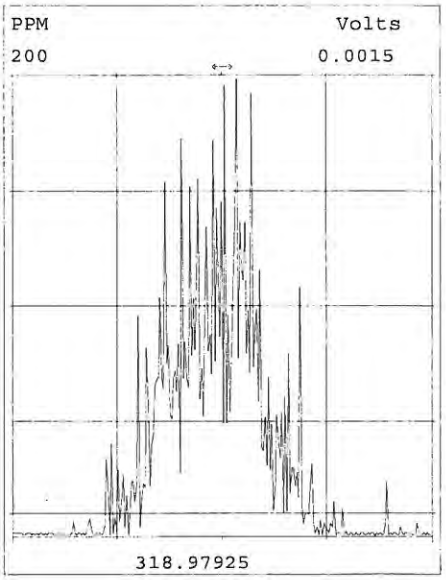
Peak Locate Examination:17-APR-2017:20:11 File:PB7C_131ACAL2[132CAL]
Experiment:PB-OCTYL-2_05 Function:3 Reference:PFK_1668

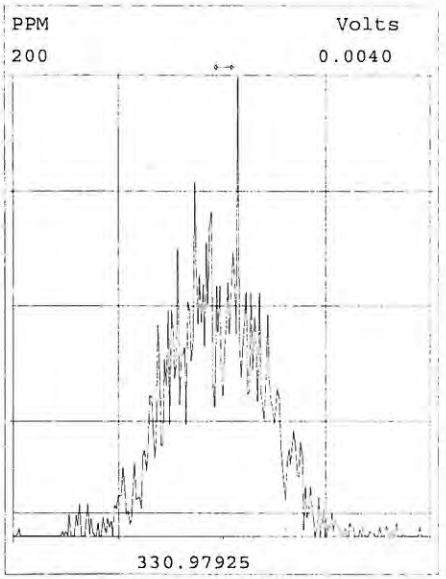


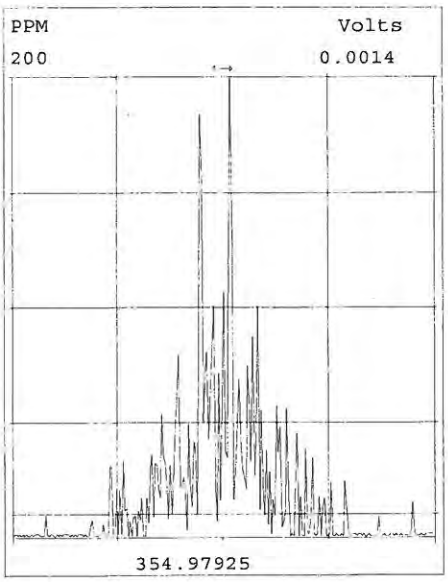



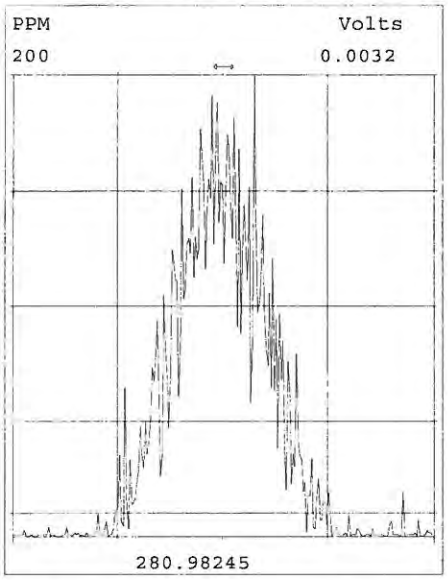



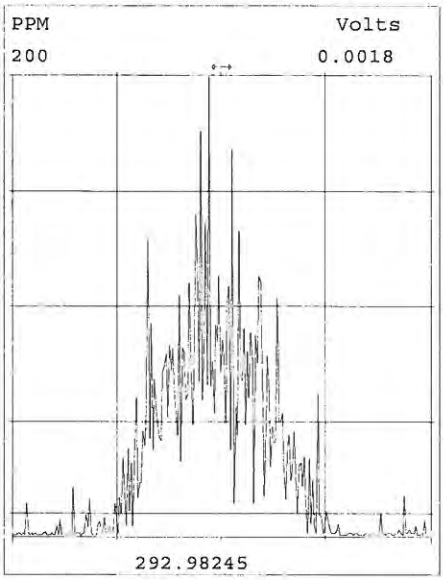



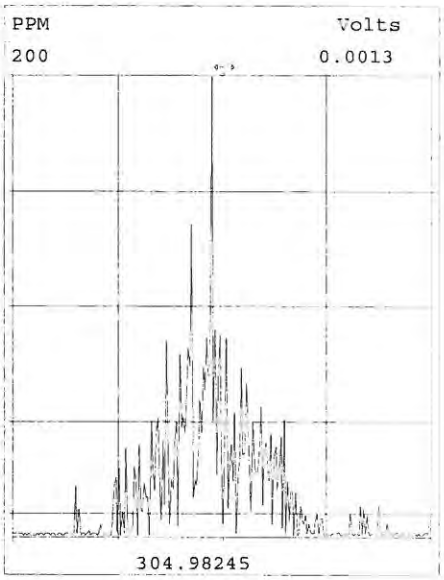



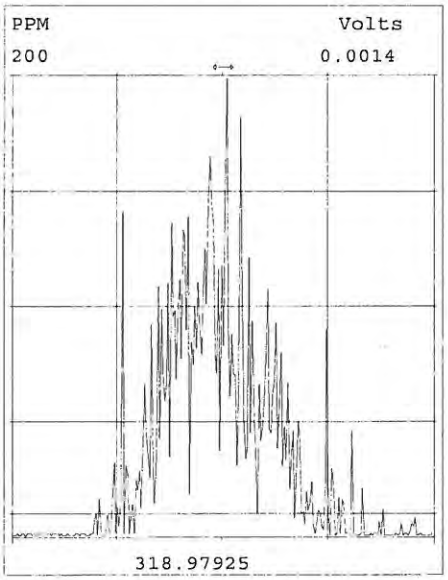



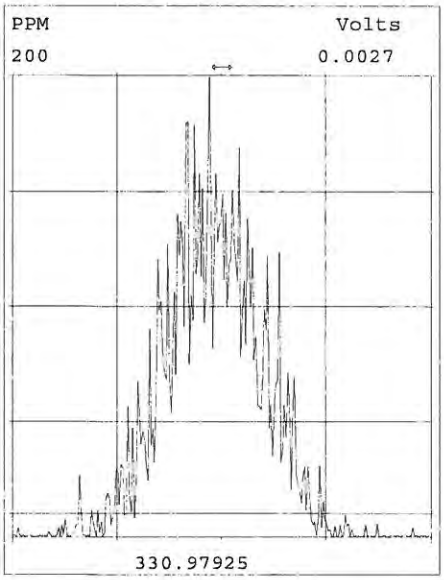
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Experiment:PB-OCTYL-2_05 Function:4 Reference:PFK_1668

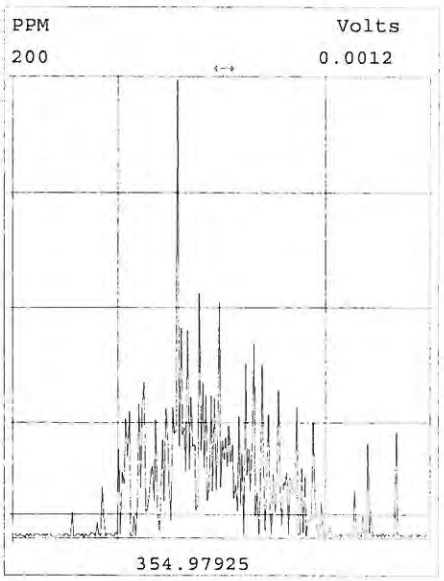


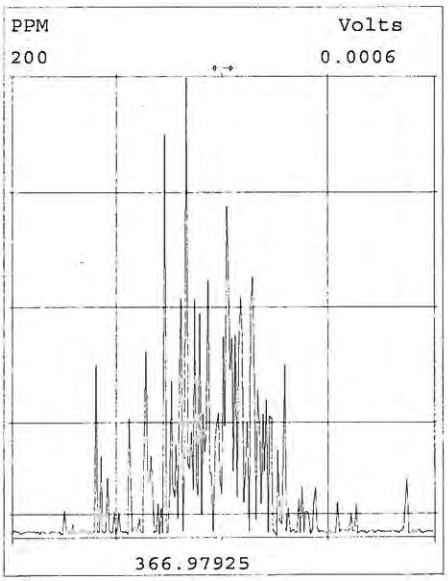



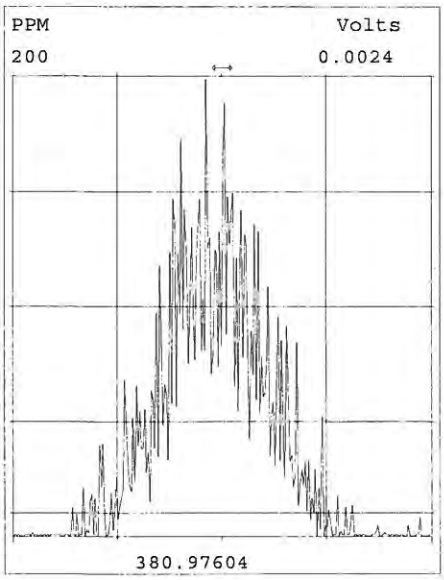



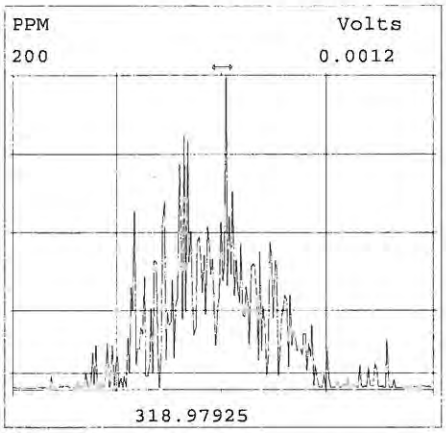



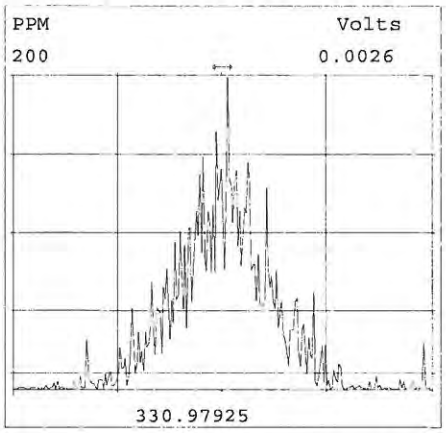



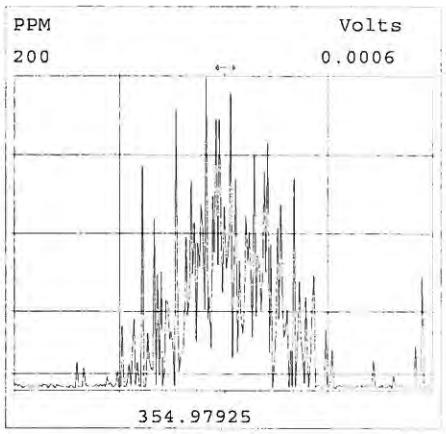



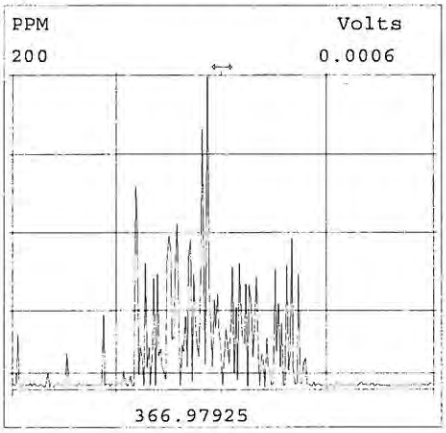



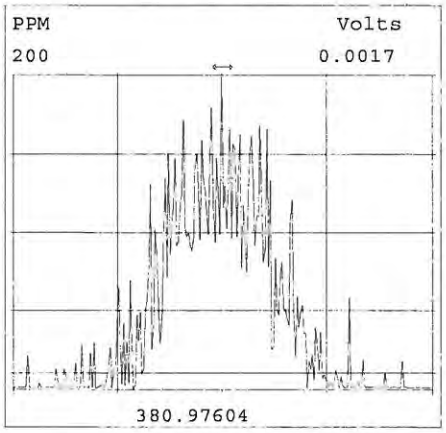
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Experiment:PB-OCTYL-2_05 Function:5 Reference:PFK_1668

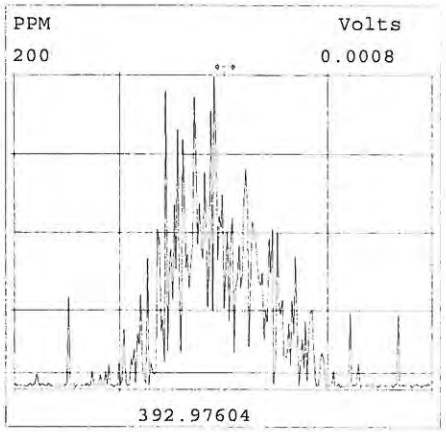


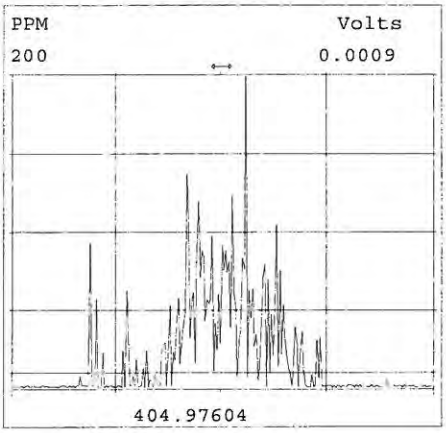



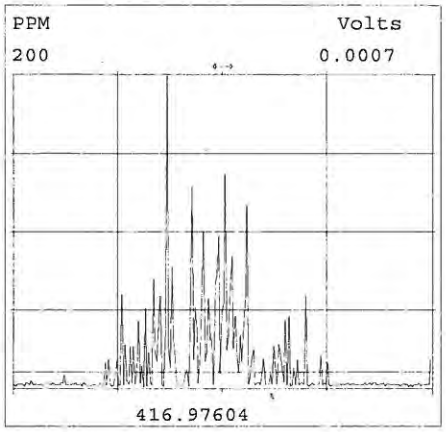



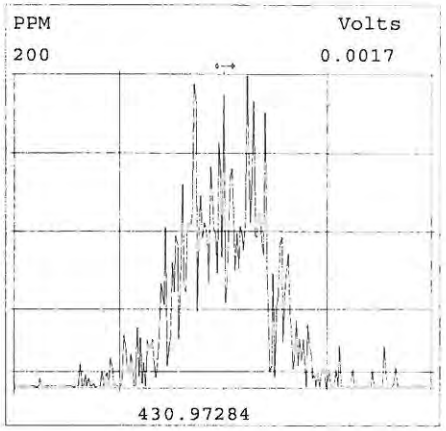



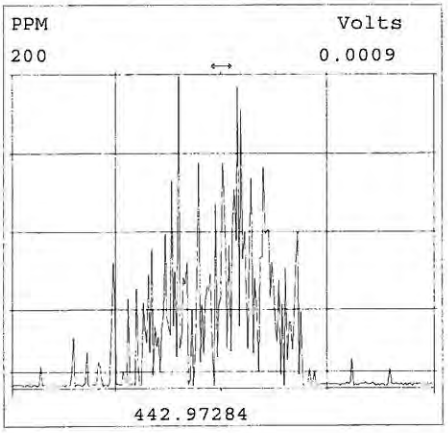



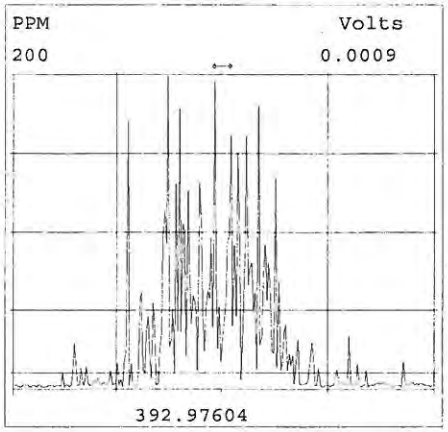



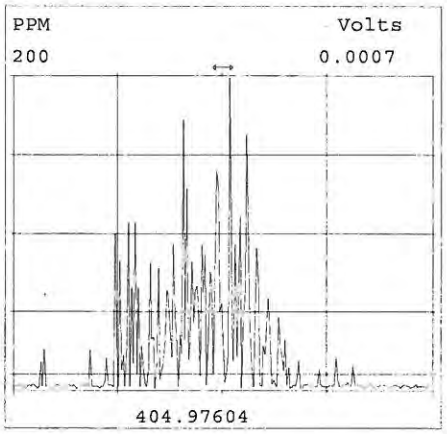



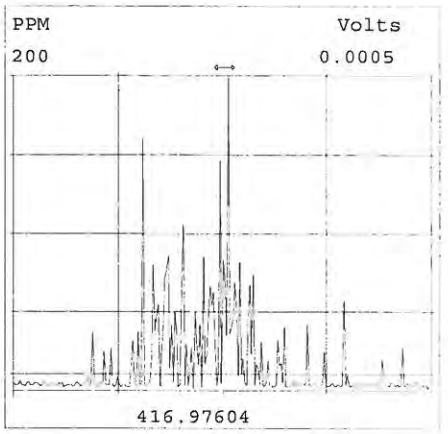



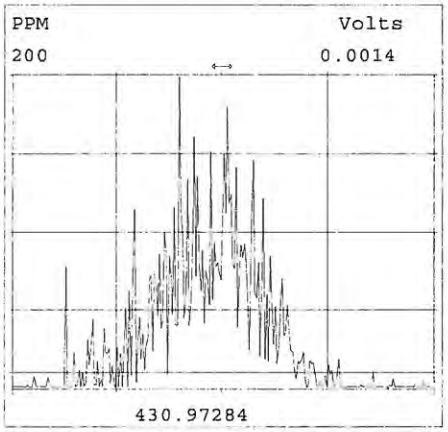



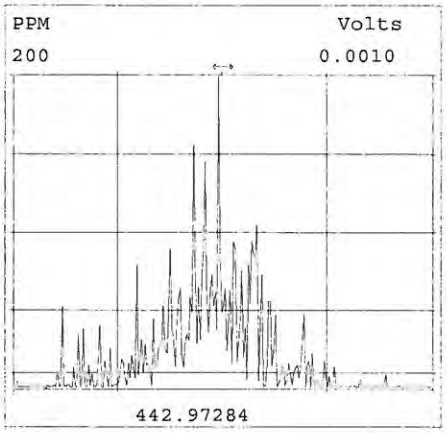
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Experiment:PB-OCTYL-2_05 Function:6 Reference:PFK_1668

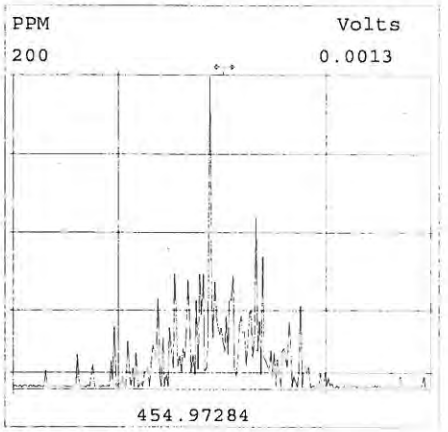


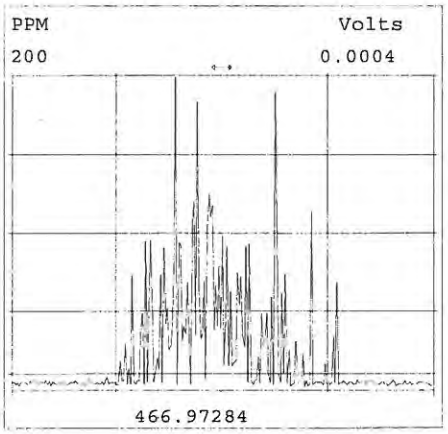



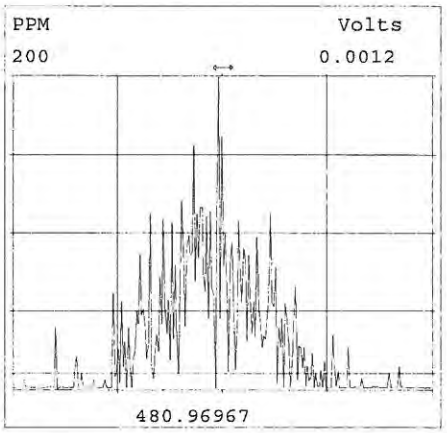



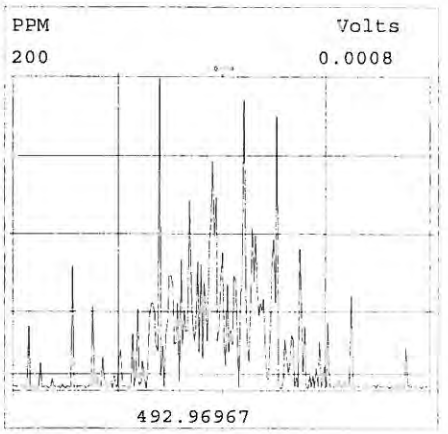



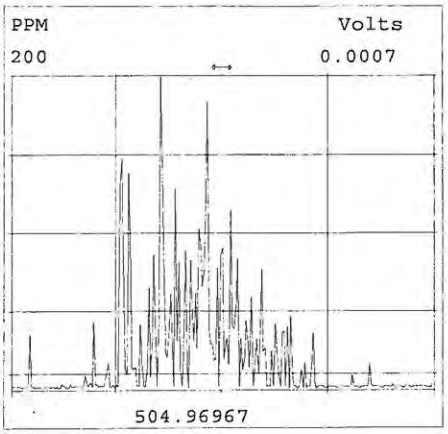



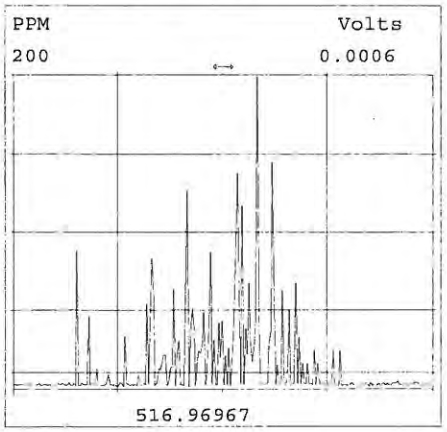



| | c/q | Data Area | Data File | S | I | AnalyteTable | Factr #1 | Factr #2 | Size | HC | Sample Text | Comments | Done |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | c | | ULTC | PB6C_435B | 3 | 1 | 1668A-C8 | 1.0000 | 1.0000 | 1.000000 | y | PB108C-CAL,,» | 1,,1.0uL CS-1 | y |
| 2 | c | | ULTC | PB6C_435B | 8 | 1 | 1668A-C8 | 5.0000 | 1.0000 | 1.000000 | y | PB108D-CAL,,» | 1,,1.0uL CS-2 | y |
| 3 | c | | ULTC | PB6C_435B | 7 | 1 | 1668A-C8 | 50.0000 | 1.0000 | 1.000000 | y | PB108E-CAL,,» | 1,,1.0uL CS-3 | y |
| 4 | c | | ULTC | PB6C_435B | 6 | 1 | 1668A-C8 | 400.0000 | 1.0000 | 1.000000 | y | PB108F-CAL,,» | 1,,1.0uL CS-4 | y |
| 5 | c | | ULTC | PB6C_435B | 5 | 1 | 1668A-C8 | 2000.00» | 1.0000 | 1.000000 | y | PB108G-CAL,,» | 1,,1.0uL CS-5 | y |
| 6 | c | | ULTC | PB6C_435B | 10 | 1 | 1668A-C8 | 6000.00» | 1.0000 | 1.000000 | y | PB108H-CAL,,» | 1,,1.0uL CS-6 | y |
| 7 | q | | ultc | PB7C_131A | 1 | 1 | 1668A-CV8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |
| 8 | q | | ultc | PB7C_131A | 7 | 1 | 1668A-S8 | 1.0000 | 1.0000 | 0.997920 | y | L27062-3,I, | 1,WG58451,1.0/20» | y |
| 9 | q | | ultc | PB7C_131A | 11 | 1 | 1668A-CV8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |

| c/q | Data Area | Data File | S | I | AnalyteTable | Factr #1 | Factr #2 | Size | HC | Sample Text | Comments | Done |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 c | ultc | PB7C_131A | 1 | 1 | 1668XB-C8 | 1.0000 | 1.0000 | 1.000000 | y | PB109A-CAL,,» | 1,,1.0uL Cal | y |
| 2 q | ultc | PB7C_131A | 7 | 1 | 1668XB-S8 | 1.0000 | 1.0000 | 0.997920 | y | L27062-3,I, | 1,WG58451,1.0/20» | y |

**AXYS METHOD MLA-010 Rev 11**

**Form 4A**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:21:59 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | MZ's FORMING RATIO [2] | ION ABUND. RATIO | QC LIMITS [3] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | **M/M+2** | 3.10 | 2.66-3.60 | 22.7 | 18.8 - 31.3 |
| **4-MoCB** | 3 | | | **M/M+2** | 3.09 | 2.66-3.60 | 23.4 | 18.8 - 31.3 |
| **2,2'-DiCB** | 4 | | | **M/M+2** | 1.53 | 1.33-1.79 | 24.1 | 18.8 - 31.3 |
| **4,4'-DiCB** | 15 | | | **M/M+2** | 1.53 | 1.33-1.79 | 27.2 | 21.0 - 35.0 |
| **2,2',6-TriCB** | 19 | | | **M/M+2** | 1.06 | 0.88-1.20 | 25.6 | 18.8 - 31.3 |
| **3,4,4'-TriCB** | 37 | | | **M/M+2** | 1.03 | 0.88-1.20 | 24.2 | 18.8 - 31.3 |
| **2,2',6,6'-TeCB** | 54 | | | **M/M+2** | 0.78 | 0.65-0.89 | 49.2 | 37.5 - 62.5 |
| **3,3',4,4'-TeCB** | 77 | | | **M/M+2** | 0.76 | 0.65-0.89 | 47.8 | 37.5 - 62.5 |
| **3,4,4',5-TeCB** | 81 | | | **M/M+2** | 0.76 | 0.65-0.89 | 51.8 | 37.5 - 62.5 |
| **2,2',4,6,6'-PeCB** | 104 | | | **M+2/M+4** | 1.54 | 1.32-1.78 | 49.4 | 37.5 - 62.5 |
| **2,3,3',4,4'-PeCB** | 105 | | | **M+2/M+4** | 1.48 | 1.32-1.78 | 59.4 | 37.5 - 62.5 |
| **2,3,4,4',5-PeCB** | 114 | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 53.1 | 37.5 - 62.5 |
| **2,3',4,4',5-PeCB** | 118 | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 50.5 | 37.5 - 62.5 |
| **2',3,4,4',5-PeCB** | 123 | | | **M+2/M+4** | 1.54 | 1.32-1.78 | 48.9 | 37.5 - 62.5 |
| **3,3',4,4',5-PeCB** | 126 | | | **M+2/M+4** | 1.51 | 1.32-1.78 | 52.9 | 41.8 - 69.6 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 49.4 | 37.5 - 62.5 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | **M+2/M+4** | 1.23 | 1.05-1.43 | 98.8 | 75.0 - 125 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | **M+2/M+4** | 1.26 | 1.05-1.43 | 53.8 | 37.5 - 62.5 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | **M+2/M+4** | 1.28 | 1.05-1.43 | 51.8 | 37.5 - 62.5 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | **M+2/M+4** | 1.03 | 0.89-1.21 | 49.0 | 37.5 - 62.5 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 49.8 | 37.5 - 62.5 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | **M+2/M+4** | 0.89 | 0.76-1.02 | 80.6 | 63.2 - 105 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 77.3 | 56.3 - 93.8 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | **M+2/M+4** | 0.78 | 0.65-0.89 | 78.0 | 56.3 - 93.8 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | **M+2/M+4** | 0.79 | 0.65-0.89 | 82.4 | 62.9 - 105 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | **M+4/M+6** | 1.16 | 0.99-1.33 | 73.4 | 56.3 - 93.8 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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Report Filename: 1668_PCB1668_PB7C_131AS1__Form4A_SJ2199165.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 4B**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:21:59 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | MZ's FORMING RATIO [3] | ION ABUND. RATIO | QC LIMITS [4] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | **M/M+2** | 3.15 | 2.66-3.60 | 100 | 50.0 - 145 |
| **13C12-4-MoCB** | 3L | | | **M/M+2** | 3.11 | 2.66-3.60 | 98.2 | 50.0 - 145 |
| **13C12-2,2'-DiCB** | 4L | | | **M/M+2** | 1.59 | 1.33-1.79 | 94.1 | 50.0 - 145 |
| **13C12-4,4'-DiCB** | 15L | | | **M/M+2** | 1.57 | 1.33-1.79 | 94.3 | 50.0 - 145 |
| **13C12-2,2',6-TriCB** | 19L | | | **M/M+2** | 1.04 | 0.88-1.20 | 107 | 50.0 - 145 |
| **13C12-3,4,4'-TriCB** | 37L | | | **M/M+2** | 1.05 | 0.88-1.20 | 80.2 | 50.0 - 145 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | **M/M+2** | 0.79 | 0.65-0.89 | 91.0 | 50.0 - 145 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | **M/M+2** | 0.77 | 0.65-0.89 | 86.7 | 50.0 - 145 |
| **13C12-3,4,4',5-TeCB** | 81L | | | **M/M+2** | 0.76 | 0.65-0.89 | 88.0 | 50.0 - 145 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 95.3 | 50.0 - 145 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | **M+2/M+4** | 1.63 | 1.32-1.78 | 74.5 | 50.0 - 145 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | **M+2/M+4** | 1.63 | 1.32-1.78 | 81.4 | 50.0 - 145 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 85.4 | 50.0 - 145 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 86.9 | 50.0 - 145 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | **M+2/M+4** | 1.54 | 1.32-1.78 | 66.8 | 50.0 - 145 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | **M+2/M+4** | 1.24 | 1.05-1.43 | 128 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | **M+2/M+4** | 1.25 | 1.05-1.43 | 166 | 100 - 290 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | **M+2/M+4** | 1.27 | 1.05-1.43 | 87.8 | 50.0 - 145 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | **M+2/M+4** | 1.24 | 1.05-1.43 | 81.4 | 50.0 - 145 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | **M+2/M+4** | 1.06 | 0.89-1.21 | 104 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 88.2 | 50.0 - 145 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | **M+2/M+4** | 0.91 | 0.76-1.02 | 104 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | **M+2/M+4** | 0.88 | 0.76-1.02 | 87.9 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | **M+2/M+4** | 0.77 | 0.65-0.89 | 92.1 | 50.0 - 145 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | **M+2/M+4** | 0.78 | 0.65-0.89 | 94.9 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | **M+4/M+6** | 1.18 | 0.99-1.33 | 101 | 50.0 - 145 |
| **CLEAN-UP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | **M/M+2** | 1.04 | 0.88-1.20 | 85.0 | 65.0 - 135 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | **M+2/M+4** | 1.63 | 1.32-1.78 | 83.8 | 75.0 - 125 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | **M+2/M+4** | 1.04 | 0.89-1.21 | 98.3 | 75.0 - 125 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 6A**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:21:59 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RETENTION TIME REFERENCE | IUPAC NO. [2] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | 13C12-2-MoCB | 1L | 1.001 | 0.999-1.004 |
| **4-MoCB** | 3 | | | 13C12-4-MoCB | 3L | 1.001 | 0.999-1.004 |
| **2,2'-DiCB** | 4 | | | 13C12-2,2'-DiCB | 4L | 1.001 | 0.999-1.004 |
| **4,4'-DiCB** | 15 | | | 13C12-4,4'-DiCB | 15L | 1.001 | 0.999-1.002 |
| **2,2',6-TriCB** | 19 | | | 13C12-2,2',6-TriCB | 19L | 1.001 | 0.999-1.003 |
| **3,4,4'-TriCB** | 37 | | | 13C12-3,4,4'-TriCB | 37L | 1.001 | 0.999-1.002 |
| **2,2',6,6'-TeCB** | 54 | | | 13C12-2,2',6,6'-TeCB | 54L | 1.001 | 0.999-1.002 |
| **3,3',4,4'-TeCB** | 77 | | | 13C12-3,3',4,4'-TeCB | 77L | 1.000 | 1.000-1.001 |
| **3,4,4',5-TeCB** | 81 | | | 13C12-3,4,4',5-TeCB | 81L | 1.001 | 1.000-1.001 |
| **2,2',4,6,6'-PeCB** | 104 | | | 13C12-2,2',4,6,6'-PeCB | 104L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4'-PeCB** | 105 | | | 13C12-2,3,3',4,4'-PeCB | 105L | 1.001 | 1.000-1.001 |
| **2,3,4,4',5-PeCB** | 114 | | | 13C12-2,3,4,4',5-PeCB | 114L | 1.000 | 1.000-1.001 |
| **2,3',4,4',5-PeCB** | 118 | | | 13C12-2,3',4,4',5-PeCB | 118L | 1.000 | 1.000-1.001 |
| **2',3,4,4',5-PeCB** | 123 | | | 13C12-2',3,4,4',5-PeCB | 123L | 1.000 | 1.000-1.001 |
| **3,3',4,4',5-PeCB** | 126 | | | 13C12-3,3',4,4',5-PeCB | 126L | 1.000 | 1.000-1.001 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | 13C12-2,2',4,4',6,6'-HxCB | 155L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB | 156L/157L | 1.001 | 0.999-1.003 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 13C12-2,3',4,4',5,5'-HxCB | 167L | 1.001 | 1.000-1.001 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | 13C12-3,3',4,4',5,5'-HxCB | 169L | 1.000 | 1.000-1.001 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | 13C12-2,2',3,4',5,6,6'-HpCB | 188L | 1.001 | 1.000-1.001 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 13C12-2,3,3',4,4',5,5'-HpCB | 189L | 1.001 | 1.000-1.001 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 13C12-2,2',3,3',5,5',6,6'-OcCB | 202L | 1.000 | 1.000-1.001 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 13C12-2,3,3',4,4',5,5',6-OcCB | 205L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 13C12-2,2',3,3',4,4',5,5',6-NoCB | 206L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 13C12-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | 13C12-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 1.000 | 1.000-1.001 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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**AXYS METHOD MLA-010 Rev 11**

**Form 6B**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:21:59 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RETENTION TIME REFERENCE | IUPAC NO. [1] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 13C12-2,5-DiCB | 9L | 0.719 | 0.688-0.750 |
| **13C12-4-MoCB** | 3L | | | 13C12-2,5-DiCB | 9L | 0.857 | 0.826-0.889 |
| **13C12-2,2'-DiCB** | 4L | | | 13C12-2,5-DiCB | 9L | 0.873 | 0.842-0.904 |
| **13C12-4,4'-DiCB** | 15L | | | 13C12-2,5-DiCB | 9L | 1.252 | 1.221-1.283 |
| **13C12-2,2',6-TriCB** | 19L | | | 13C12-2,5-DiCB | 9L | 1.072 | 1.041-1.103 |
| **13C12-3,4,4'-TriCB** | 37L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.090 | 1.071-1.110 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.811 | 0.798-0.824 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.396 | 1.383-1.409 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.372 | 1.359-1.385 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 0.809 | 0.799-0.819 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.200 | 1.190-1.210 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.179 | 1.169-1.190 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.162 | 1.152-1.172 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.151 | 1.141-1.162 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.301 | 1.291-1.311 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 0.786 | 0.778-0.795 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.107 | 1.099-1.116 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.078 | 1.070-1.086 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.192 | 1.183-1.200 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.712 | 0.706-0.718 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.959 | 0.952-0.965 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.818 | 0.811-0.824 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.009 | 1.000-1.019 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.044 | 1.034-1.053 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.949 | 0.943-0.955 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.075 | 1.065-1.084 |
| **CLEANUP STANDARD** | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.925 | 0.912-0.938 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.088 | 1.077-1.098 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.012 | 1.004-1.020 |

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16686B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_131AS1__Form6B_SJ2199165.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 3A**

**PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Initial Calibration Date:** 27-Nov-2016 **CAL Data Filename:** PB7C_131A S: 1

**Instrument ID:** HR GC/MS **Analysis Date:** 17-Apr-2017

**GC Column ID:** SPB OCTYL **Analysis Time:** 08:21:59

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **3-MoCB** | 2 | | | 1.02 | **M/M+2** | 3.20 | 2.66-3.60 | 0.989 | 0.985 - 0.993 |
| **2,3-DiCB** | 5 | | | 1.02 | **M/M+2** | 1.53 | 1.33-1.79 | 1.198 | 1.194 - 1.201 |
| **2,3'-DiCB** | 6 | | | 1.17 | **M/M+2** | 1.56 | 1.33-1.79 | 1.176 | 1.173 - 1.180 |
| **2,4-DiCB** | 7 | | | 1.16 | **M/M+2** | 1.53 | 1.33-1.79 | 1.159 | 1.155 - 1.162 |
| **2,4'-DiCB** | 8 | | | 1.31 | **M/M+2** | 1.53 | 1.33-1.79 | 1.207 | 1.204 - 1.211 |
| **2,5-DiCB** | 9 | | | 1.18 | **M/M+2** | 1.53 | 1.33-1.79 | 1.147 | 1.143 - 1.150 |
| **2,6-DiCB** | 10 | | | 1.13 | **M/M+2** | 1.53 | 1.33-1.79 | 1.014 | 1.011 - 1.018 |
| **3,3'-DiCB** | 11 | | | 1.15 | **M/M+2** | 1.54 | 1.33-1.79 | 0.970 | 0.968 - 0.973 |
| **3,4-DiCB** | 12 | 12 + 13 | C | 1.12 | **M/M+2** | 1.54 | 1.33-1.79 | 0.986 | 0.983 - 0.988 |
| **3,4'-DiCB** | 13 | 12 + 13 | C12 | | | | | | |
| **3,5-DiCB** | 14 | | | 1.17 | **M/M+2** | 1.55 | 1.33-1.79 | 0.927 | 0.924 - 0.929 |
| **2,2',3-TriCB** | 16 | | | 0.79 | **M/M+2** | 1.05 | 0.88-1.20 | 1.165 | 1.162 - 1.168 |
| **2,2',4-TriCB** | 17 | | | 0.94 | **M/M+2** | 1.05 | 0.88-1.20 | 1.138 | 1.135 - 1.141 |
| **2,2',5-TriCB** | 18 | 18 + 30 | C | 1.10 | **M/M+2** | 1.04 | 0.88-1.20 | 1.113 | 1.110 - 1.116 |
| **2,3,3'-TriCB** | 20 | 20 + 28 | C | 1.21 | **M/M+2** | 1.02 | 0.88-1.20 | 0.850 | 0.847 - 0.853 |
| **2,3,4-TriCB** | 21 | 21 + 33 | C | 1.23 | **M/M+2** | 1.04 | 0.88-1.20 | 0.857 | 0.854 - 0.860 |
| **2,3,4'-TriCB** | 22 | | | 1.11 | **M/M+2** | 1.02 | 0.88-1.20 | 0.872 | 0.871 - 0.874 |
| **2,3,5-TriCB** | 23 | | | 1.12 | **M/M+2** | 1.04 | 0.88-1.20 | 1.282 | 1.279 - 1.284 |
| **2,3,6-TriCB** | 24 | | | 1.22 | **M/M+2** | 1.04 | 0.88-1.20 | 1.158 | 1.155 - 1.161 |
| **2,3',4-TriCB** | 25 | | | 1.35 | **M/M+2** | 1.02 | 0.88-1.20 | 0.826 | 0.824 - 0.828 |
| **2,3',5-TriCB** | 26 | 26 + 29 | C | 1.19 | **M/M+2** | 1.03 | 0.88-1.20 | 1.301 | 1.296 - 1.306 |
| **2,3',6-TriCB** | 27 | | | 1.33 | **M/M+2** | 1.03 | 0.88-1.20 | 1.150 | 1.148 - 1.153 |
| **2,4,4'-TriCB** | 28 | 20 + 28 | C20 | | | | | | |
| **2,4,5-TriCB** | 29 | 26 + 29 | C26 | | | | | | |
| **2,4,6-TriCB** | 30 | 18 + 30 | C18 | | | | | | |
| **2,4',5-TriCB** | 31 | | | 1.26 | **M/M+2** | 1.02 | 0.88-1.20 | 0.838 | 0.836 - 0.840 |
| **2,4',6-TriCB** | 32 | | | 1.22 | **M/M+2** | 1.03 | 0.88-1.20 | 1.197 | 1.194 - 1.200 |
| **2',3,4-TriCB** | 33 | 21 + 33 | C21 | | | | | | |
| **2',3,5-TriCB** | 34 | | | 1.14 | **M/M+2** | 1.03 | 0.88-1.20 | 1.273 | 1.270 - 1.276 |
| **3,3',4-TriCB** | 35 | | | 1.25 | **M/M+2** | 1.02 | 0.88-1.20 | 0.986 | 0.984 - 0.988 |
| **3,3',5-TriCB** | 36 | | | 1.29 | **M/M+2** | 1.03 | 0.88-1.20 | 0.933 | 0.931 - 0.935 |
| **3,4,5-TriCB** | 38 | | | 1.21 | **M/M+2** | 1.04 | 0.88-1.20 | 0.968 | 0.966 - 0.970 |
| **3,4',5-TriCB** | 39 | | | 1.22 | **M/M+2** | 1.02 | 0.88-1.20 | 0.946 | 0.944 - 0.948 |
| **2,2',3,3'-TeCB** | 40 | 40 + 41 + 71 | C | 0.84 | **M/M+2** | 0.77 | 0.65-0.89 | 1.335 | 1.331 - 1.339 |
| **2,2',3,4-TeCB** | 41 | 40 + 41 + 71 | C40 | | | | | | |
| **2,2',3,4'-TeCB** | 42 | | | 0.80 | **M/M+2** | 0.72 | 0.65-0.89 | 1.312 | 1.309 - 1.314 |
| **2,2',3,5-TeCB** | 43 | | | 0.72 | **M/M+2** | 0.76 | 0.65-0.89 | 1.247 | 1.244 - 1.249 |
| **2,2',3,5'-TeCB** | 44 | 44 + 47 + 65 | C | 0.91 | **M/M+2** | 0.78 | 0.65-0.89 | 1.285 | 1.281 - 1.290 |
| **2,2',3,6-TeCB** | 45 | 45 + 51 | C | 0.81 | **M/M+2** | 0.78 | 0.65-0.89 | 1.147 | 1.143 - 1.151 |
| **2,2',3,6'-TeCB** | 46 | | | 0.71 | **M/M+2** | 0.76 | 0.65-0.89 | 1.161 | 1.158 - 1.163 |
| **2,2',4,4'-TeCB** | 47 | 44 + 47 + 65 | C44 | | | | | | |
| **2,2',4,5-TeCB** | 48 | | | 0.83 | **M/M+2** | 0.78 | 0.65-0.89 | 1.273 | 1.271 - 1.276 |
| **2,2',4,5'-TeCB** | 49 | 49 + 69 | C | 0.97 | **M/M+2** | 0.78 | 0.65-0.89 | 1.258 | 1.253 - 1.262 |
| **2,2',4,6-TeCB** | 50 | 50 + 53 | C | 0.83 | **M/M+2** | 0.78 | 0.65-0.89 | 1.112 | 1.108 - 1.116 |
| **2,2',4,6'-TeCB** | 51 | 45 + 51 | C45 | | | | | | |
| **2,2',5,5'-TeCB** | 52 | | | 0.85 | **M/M+2** | 0.79 | 0.65-0.89 | 1.234 | 1.231 - 1.236 |
| **2,2',5,6'-TeCB** | 53 | 50 + 53 | C50 | | | | | | |
| **2,3,3',4-TeCB** | 55 | | | 1.00 | **M/M+2** | 0.76 | 0.65-0.89 | 0.889 | 0.888 - 0.891 |
| **2,3,3',4'-TeCB** | 56 | | | 0.96 | **M/M+2** | 0.77 | 0.65-0.89 | 0.905 | 0.903 - 0.906 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **2,3,3',5-TeCB** | 57 | | | 1.03 | **M/M+2** | 0.77 | 0.65-0.89 | 0.845 | 0.843 - 0.846 |
| **2,3,3',5'-TeCB** | 58 | | | 1.00 | **M/M+2** | 0.77 | 0.65-0.89 | 0.852 | 0.850 - 0.853 |
| **2,3,3',6-TeCB** | 59 | 59 + 62 + 75 | C | 1.11 | **M/M+2** | 0.79 | 0.65-0.89 | 1.302 | 1.298 - 1.306 |
| **2,3,4,4'-TeCB** | 60 | | | 0.98 | **M/M+2** | 0.76 | 0.65-0.89 | 0.911 | 0.910 - 0.913 |
| **2,3,4,5-TeCB** | 61 | 61 + 70 + 74 + 76 | C | 1.03 | **M/M+2** | 0.77 | 0.65-0.89 | 0.874 | 0.871 - 0.877 |
| **2,3,4,6-TeCB** | 62 | 59 + 62 + 75 | C59 | | | | | | |
| **2,3,4',5-TeCB** | 63 | | | 1.06 | **M/M+2** | 0.77 | 0.65-0.89 | 0.865 | 0.863 - 0.866 |
| **2,3,4',6-TeCB** | 64 | | | 1.15 | **M/M+2** | 0.78 | 0.65-0.89 | 1.348 | 1.345 - 1.350 |
| **2,3,5,6-TeCB** | 65 | 44 + 47 + 65 | C44 | | | | | | |
| **2,3',4,4'-TeCB** | 66 | | | 1.02 | **M/M+2** | 0.77 | 0.65-0.89 | 0.885 | 0.883 - 0.886 |
| **2,3',4,5-TeCB** | 67 | | | 1.17 | **M/M+2** | 0.77 | 0.65-0.89 | 0.857 | 0.855 - 0.858 |
| **2,3',4,5'-TeCB** | 68 | | | 1.08 | **M/M+2** | 0.77 | 0.65-0.89 | 0.832 | 0.830 - 0.833 |
| **2,3',4,6-TeCB** | 69 | 49 + 69 | C49 | | | | | | |
| **2,3',4',5-TeCB** | 70 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **2,3',4',6-TeCB** | 71 | 40 + 41 + 71 | C40 | | | | | | |
| **2,3',5,5'-TeCB** | 72 | | | 1.08 | **M/M+2** | 0.77 | 0.65-0.89 | 0.823 | 0.822 - 0.824 |
| **2,3',5',6-TeCB** | 73 | | | 1.08 | **M/M+2** | 0.76 | 0.65-0.89 | 1.241 | 1.239 - 1.244 |
| **2,4,4',5-TeCB** | 74 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **2,4,4',6-TeCB** | 75 | 59 + 62 + 75 | C59 | | | | | | |
| **2',3,4,5-TeCB** | 76 | 61 + 70 + 74 + 76 | C61 | | | | | | |
| **3,3',4,5-TeCB** | 78 | | | 1.07 | **M/M+2** | 0.77 | 0.65-0.89 | 0.988 | 0.986 - 0.989 |
| **3,3',4,5'-TeCB** | 79 | | | 1.21 | **M/M+2** | 0.77 | 0.65-0.89 | 0.971 | 0.969 - 0.972 |
| **3,3',5,5'-TeCB** | 80 | | | 1.11 | **M/M+2** | 0.76 | 0.65-0.89 | 0.925 | 0.923 - 0.926 |
| **2,2',3,3',4-PeCB** | 82 | | | 0.77 | **M+2/M+4** | 1.55 | 1.32-1.78 | 0.933 | 0.932 - 0.935 |
| **2,2',3,3',5-PeCB** | 83 | 83 + 99 | C | 0.80 | **M+2/M+4** | 1.56 | 1.32-1.78 | 0.884 | 0.881 - 0.887 |
| **2,2',3,3',6-PeCB** | 84 | | | 0.73 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.162 | 1.160 - 1.164 |
| **2,2',3,4,4'-PeCB** | 85 | 85 + 116 + 117 | C | 1.00 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.919 | 0.916 - 0.922 |
| **2,2',3,4,5-PeCB** | 86 | 86 + 87 + 97 + 109 + 119 + 125 | C | 0.96 | **M+2/M+4** | 1.56 | 1.32-1.78 | 0.900 | 0.897 - 0.904 |
| **2,2',3,4,5'-PeCB** | 87 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,2',3,4,6-PeCB** | 88 | 88 + 91 | C | 0.82 | **M+2/M+4** | 1.56 | 1.32-1.78 | 1.152 | 1.148 - 1.156 |
| **2,2',3,4,6'-PeCB** | 89 | | | 0.80 | **M+2/M+4** | 1.59 | 1.32-1.78 | 1.181 | 1.179 - 1.183 |
| **2,2',3,4',5-PeCB** | 90 | 90 + 101 + 113 | C | 0.96 | **M+2/M+4** | 1.59 | 1.32-1.78 | 0.869 | 0.866 - 0.871 |
| **2,2',3,4',6-PeCB** | 91 | 88 + 91 | C88 | | | | | | |
| **2,2',3,5,5'-PeCB** | 92 | | | 0.84 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.853 | 0.852 - 0.854 |
| **2,2',3,5,6-PeCB** | 93 | 93 + 95 + 98 + 100 + 102 | C | 0.84 | **M+2/M+4** | 1.57 | 1.32-1.78 | 1.129 | 1.118 - 1.140 |
| **2,2',3,5,6'-PeCB** | 94 | | | 0.75 | **M+2/M+4** | 1.57 | 1.32-1.78 | 1.101 | 1.099 - 1.103 |
| **2,2',3,5',6-PeCB** | 95 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',3,6,6'-PeCB** | 96 | | | 1.30 | **M+2/M+4** | 1.57 | 1.32-1.78 | 1.015 | 1.012 - 1.018 |
| **2,2',3',4,5-PeCB** | 97 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,2',3',4,6-PeCB** | 98 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,4',5-PeCB** | 99 | 83 + 99 | C83 | | | | | | |
| **2,2',4,4',6-PeCB** | 100 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,5,5'-PeCB** | 101 | 90 + 101 + 113 | C90 | | | | | | |
| **2,2',4,5,6'-PeCB** | 102 | 93 + 95 + 98 + 100 + 102 | C93 | | | | | | |
| **2,2',4,5',6-PeCB** | 103 | | | 0.93 | **M+2/M+4** | 1.55 | 1.32-1.78 | 1.093 | 1.091 - 1.095 |
| **2,3,3',4,5-PeCB** | 106 | | | 1.16 | **M+2/M+4** | 1.55 | 1.32-1.78 | 1.004 | 1.002 - 1.005 |
| **2,3,3',4',5-PeCB** | 107 [4] | | | 1.02 | **M+2/M+4** | 1.53 | 1.32-1.78 | 0.997 | 0.996 - 0.999 |
| **2,3,3',4,5'-PeCB** | 108 [4] | 108 + 124 | C | 1.00 | **M+2/M+4** | 1.54 | 1.32-1.78 | 0.991 | 0.988 - 0.993 |
| **2,3,3',4,6-PeCB** | 109 [4] | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,3,3',4',6-PeCB** | 110 | 110 + 115 | C | 1.15 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.926 | 0.924 - 0.928 |
| **2,3,3',5,5'-PeCB** | 111 | | | 1.13 | **M+2/M+4** | 1.55 | 1.32-1.78 | 0.946 | 0.944 - 0.947 |
| **2,3,3',5,6-PeCB** | 112 | | | 1.26 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.889 | 0.888 - 0.890 |
| **2,3,3',5',6-PeCB** | 113 | 90 + 101 + 113 | C90 | | | | | | |
| **2,3,4,4',6-PeCB** | 115 | 110 + 115 | C110 | | | | | | |
| **2,3,4,5,6-PeCB** | 116 | 85 + 116 + 117 | C85 | | | | | | |
| **2,3,4',5,6-PeCB** | 117 | 85 + 116 + 117 | C85 | | | | | | |
| **2,3',4,4',6-PeCB** | 119 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |
| **2,3',4,5,5'-PeCB** | 120 | | | 1.18 | **M+2/M+4** | 1.60 | 1.32-1.78 | 0.959 | 0.957 - 0.960 |
| **2,3',4,5',6-PeCB** | 121 | | | 1.07 | **M+2/M+4** | 1.53 | 1.32-1.78 | 1.199 | 1.197 - 1.201 |
| **2',3,3',4,5-PeCB** | 122 | | | 0.95 | **M+2/M+4** | 1.52 | 1.32-1.78 | 1.010 | 1.008 - 1.011 |
| **2',3,4,5,5'-PeCB** | 124 | 108 + 124 | C108 | | | | | | |
| **2',3,4,5,6'-PeCB** | 125 | 86 + 87 + 97 + 109 + 119 + 125 | C86 | | | | | | |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **3,3',4,5,5'-PeCB** | 127 | | | 0.79 | **M+2/M+4** | 1.45 | 1.32-1.78 | 1.041 | 1.040 - 1.042 |
| **2,2',3,3',4,4'-HxCB** | 128 | 128 + 166 | C | 0.86 | **M+2/M+4** | 1.24 | 1.05-1.43 | 0.958 | 0.956 - 0.960 |
| **2,2',3,3',4,5-HxCB** | 129 | 129 + 138 + 160 + 163 | C | 0.87 | **M+2/M+4** | 1.24 | 1.05-1.43 | 0.930 | 0.927 - 0.932 |
| **2,2',3,3',4,5'-HxCB** | 130 | | | 0.70 | **M+2/M+4** | 1.20 | 1.05-1.43 | 0.913 | 0.912 - 0.914 |
| **2,2',3,3',4,6-HxCB** | 131 | | | 0.75 | **M+2/M+4** | 1.36 | 1.05-1.43 | 1.159 | 1.157 - 1.160 |
| **2,2',3,3',4,6'-HxCB** | 132 | | | 0.73 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.174 | 1.171 - 1.176 |
| **2,2',3,3',5,5'-HxCB** | 133 | | | 0.78 | **M+2/M+4** | 1.25 | 1.05-1.43 | 1.190 | 1.189 - 1.192 |
| **2,2',3,3',5,6-HxCB** | 134 | 134 + 143 | C | 0.90 | **M+2/M+4** | 1.38 | 1.05-1.43 | 1.140 | 1.138 - 1.143 |
| **2,2',3,3',5,6'-HxCB** | 135 | 135 + 151 + 154 | C | 1.07 | **M+2/M+4** | 1.27 | 1.05-1.43 | 1.106 | 1.101 - 1.112 |
| **2,2',3,3',6,6'-HxCB** | 136 | | | 1.65 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.023 | 1.022 - 1.025 |
| **2,2',3,4,4',5-HxCB** | 137 | | | 0.65 | **M+2/M+4** | 1.22 | 1.05-1.43 | 0.918 | 0.917 - 0.919 |
| **2,2',3,4,4',5'-HxCB** | 138 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,2',3,4,4',6-HxCB** | 139 | 139 + 140 | C | 0.92 | **M+2/M+4** | 1.30 | 1.05-1.43 | 1.152 | 1.150 - 1.155 |
| **2,2',3,4,4',6'-HxCB** | 140 | 139 + 140 | C139 | | | | | | |
| **2,2',3,4,5,5'-HxCB** | 141 | | | 0.84 | **M+2/M+4** | 1.23 | 1.05-1.43 | 0.903 | 0.902 - 0.904 |
| **2,2',3,4,5,6-HxCB** | 142 | | | 0.78 | **M+2/M+4** | 1.19 | 1.05-1.43 | 1.163 | 1.162 - 1.165 |
| **2,2',3,4,5,6'-HxCB** | 143 | 134 + 143 | C134 | | | | | | |
| **2,2',3,4,5',6-HxCB** | 144 | | | 1.00 | **M+2/M+4** | 1.26 | 1.05-1.43 | 1.121 | 1.119 - 1.123 |
| **2,2',3,4,6,6'-HxCB** | 145 | | | 1.54 | **M+2/M+4** | 1.29 | 1.05-1.43 | 1.033 | 1.031 - 1.034 |
| **2,2',3,4',5,5'-HxCB** | 146 | | | 0.91 | **M+2/M+4** | 1.23 | 1.05-1.43 | 0.884 | 0.883 - 0.885 |
| **2,2',3,4',5,6-HxCB** | 147 | 147 + 149 | C | 1.07 | **M+2/M+4** | 1.24 | 1.05-1.43 | 1.133 | 1.130 - 1.136 |
| **2,2',3,4',5,6'-HxCB** | 148 | | | 1.03 | **M+2/M+4** | 1.24 | 1.05-1.43 | 1.083 | 1.082 - 1.085 |
| **2,2',3,4',5',6-HxCB** | 149 | 147 + 149 | C147 | | | | | | |
| **2,2',3,4',6,6'-HxCB** | 150 | | | 1.63 | **M+2/M+4** | 1.21 | 1.05-1.43 | 1.011 | 1.010 - 1.013 |
| **2,2',3,5,5',6-HxCB** | 151 | 135 + 151 + 154 | C135 | | | | | | |
| **2,2',3,5,6,6'-HxCB** | 152 | | | 1.72 | **M+2/M+4** | 1.31 | 1.05-1.43 | 1.006 | 1.005 - 1.008 |
| **2,2',4,4',5,5'-HxCB** | 153 | 153 + 168 | C | 0.96 | **M+2/M+4** | 1.23 | 1.05-1.43 | 0.899 | 0.897 - 0.901 |
| **2,2',4,4',5,6'-HxCB** | 154 | 135 + 151 + 154 | C135 | | | | | | |
| **2,3,3',4,4',6-HxCB** | 158 | | | 1.10 | **M+2/M+4** | 1.21 | 1.05-1.43 | 0.938 | 0.937 - 0.939 |
| **2,3,3',4,5,5'-HxCB** | 159 | | | 0.95 | **M+2/M+4** | 1.23 | 1.05-1.43 | 0.982 | 0.981 - 0.983 |
| **2,3,3',4,5,6-HxCB** | 160 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,3,3',4,5',6-HxCB** | 161 | | | 1.10 | **M+2/M+4** | 1.26 | 1.05-1.43 | 0.887 | 0.886 - 0.889 |
| **2,3,3',4',5,5'-HxCB** | 162 | | | 0.99 | **M+2/M+4** | 1.25 | 1.05-1.43 | 0.989 | 0.988 - 0.990 |
| **2,3,3',4',5,6-HxCB** | 163 | 129 + 138 + 160 + 163 | C129 | | | | | | |
| **2,3,3',4',5',6-HxCB** | 164 | | | 1.13 | **M+2/M+4** | 1.25 | 1.05-1.43 | 0.921 | 0.920 - 0.922 |
| **2,3,3',5,5',6-HxCB** | 165 | | | 0.95 | **M+2/M+4** | 1.24 | 1.05-1.43 | 0.878 | 0.877 - 0.879 |
| **2,3,4,4',5,6-HxCB** | 166 | 128 + 166 | C128 | | | | | | |
| **2,3',4,4',5',6-HxCB** | 168 | 153 + 168 | C153 | | | | | | |
| **2,2',3,3',4,4',5-HpCB** | 170 | | | 1.05 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.000 | 0.999 - 1.001 |
| **2,2',3,3',4,4',6-HpCB** | 171 | 171 + 173 | C | 0.74 | **M+2/M+4** | 1.01 | 0.89-1.21 | 1.162 | 1.160 - 1.164 |
| **2,2',3,3',4,5,5'-HpCB** | 172 | | | 0.71 | **M+2/M+4** | 1.04 | 0.89-1.21 | 0.897 | 0.896 - 0.898 |
| **2,2',3,3',4,5,6-HpCB** | 173 | 171 + 173 | C171 | | | | | | |
| **2,2',3,3',4,5,6'-HpCB** | 174 | | | 0.85 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.133 | 1.132 - 1.135 |
| **2,2',3,3',4,5',6-HpCB** | 175 | | | 0.84 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.102 | 1.101 - 1.104 |
| **2,2',3,3',4,6,6'-HpCB** | 176 | | | 1.14 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.034 | 1.033 - 1.036 |
| **2,2',3,3',4',5,6-HpCB** | 177 | | | 0.93 | **M+2/M+4** | 1.03 | 0.89-1.21 | 1.145 | 1.144 - 1.146 |
| **2,2',3,3',5,5',6-HpCB** | 178 | | | 0.79 | **M+2/M+4** | 1.02 | 0.89-1.21 | 1.085 | 1.084 - 1.086 |
| **2,2',3,3',5,6,6'-HpCB** | 179 | | | 1.17 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.010 | 1.008 - 1.011 |
| **2,2',3,4,4',5,5'-HpCB** | 180 | 180 + 193 | C | 0.93 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.000 | 0.999 - 1.001 |
| **2,2',3,4,4',5,6-HpCB** | 181 | | | 0.75 | **M+2/M+4** | 1.00 | 0.89-1.21 | 1.156 | 1.155 - 1.157 |
| **2,2',3,4,4',5,6'-HpCB** | 182 | | | 0.87 | **M+2/M+4** | 1.01 | 0.89-1.21 | 1.116 | 1.114 - 1.117 |
| **2,2',3,4,4',5',6-HpCB** | 183 | 183 + 185 | C | 0.79 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.127 | 1.126 - 1.129 |
| **2,2',3,4,4',6,6'-HpCB** | 184 | | | 1.22 | **M+2/M+4** | 1.04 | 0.89-1.21 | 1.025 | 1.023 - 1.026 |
| **2,2',3,4,5,5',6-HpCB** | 185 | 183 + 185 | C183 | | | | | | |
| **2,2',3,4,5,6,6'-HpCB** | 186 | | | 1.07 | **M+2/M+4** | 1.02 | 0.89-1.21 | 1.047 | 1.045 - 1.048 |
| **2,2',3,4',5,5',6-HpCB** | 187 | | | 0.88 | **M+2/M+4** | 1.05 | 0.89-1.21 | 1.110 | 1.109 - 1.111 |
| **2,3,3',4,4',5,6-HpCB** | 190 | | | 0.87 | **M+2/M+4** | 1.02 | 0.89-1.21 | 0.947 | 0.946 - 0.948 |
| **2,3,3',4,4',5',6-HpCB** | 191 | | | 0.93 | **M+2/M+4** | 1.05 | 0.89-1.21 | 0.918 | 0.917 - 0.919 |
| **2,3,3',4,5,5',6-HpCB** | 192 | | | 0.85 | **M+2/M+4** | 1.01 | 0.89-1.21 | 0.903 | 0.902 - 0.904 |
| **2,3,3',4',5,5',6-HpCB** | 193 | 180 + 193 | C180 | | | | | | |
| **2,2',3,3',4,4',5,5'-OcCB** | 194 | | | 0.61 | **M+2/M+4** | 0.89 | 0.76-1.02 | 0.991 | 0.990 - 0.992 |
| **2,2',3,3',4,4',5,6-OcCB** | 195 | | | 0.56 | **M+2/M+4** | 0.89 | 0.76-1.02 | 0.945 | 0.944 - 0.946 |
| **2,2',3,3',4,4',5,6'-OcCB** | 196 | | | 0.80 | **M+2/M+4** | 0.89 | 0.76-1.02 | 0.915 | 0.914 - 0.916 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RRF | MZ's FORMING RATIO [2] | ION ABUND. RATIO | RATIO QC LIMITS [3] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **2,2',3,3',4,4',6,6'-OcCB** | 197 | 197 + 200 | C | 1.20 | **M+2/M+4** | 0.89 | 0.76-1.02 | 1.045 | 1.042 - 1.048 |
| **2,2',3,3',4,5,5',6-OcCB** | 198 | 198 + 199 | C | 0.77 | **M+2/M+4** | 0.90 | 0.76-1.02 | 1.114 | 1.112 - 1.116 |
| **2,2',3,3',4,5,5',6'-OcCB** | 199 | 198 + 199 | C198 | | | | | | |
| **2,2',3,3',4,5,6,6'-OcCB** | 200 | 197 + 200 | C197 | | | | | | |
| **2,2',3,3',4,5',6,6'-OcCB** | 201 | | | 1.16 | **M+2/M+4** | 0.88 | 0.76-1.02 | 1.023 | 1.021 - 1.025 |
| **2,2',3,4,4',5,5',6-OcCB** | 203 | | | 0.83 | **M+2/M+4** | 0.91 | 0.76-1.02 | 0.919 | 0.918 - 0.920 |
| **2,2',3,4,4',5,6,6'-OcCB** | 204 | | | 1.13 | **M+2/M+4** | 0.89 | 0.76-1.02 | 1.039 | 1.038 - 1.040 |
| **2,2',3,3',4,4',5,6,6'-NoCB** | 207 | | | 1.16 | **M+2/M+4** | 0.78 | 0.65-0.89 | 1.020 | 1.019 - 1.021 |

(1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(4) PCB Congener numbers 107, 108, and 109 defined as per EPA1668C specifications.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form1668346A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_131AS1__Form346A_SJ2199142_GS69769.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 3B**

**PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES, ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **CAL Data Filename:** | PB7C_131A S: 1 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 08:21:59 |

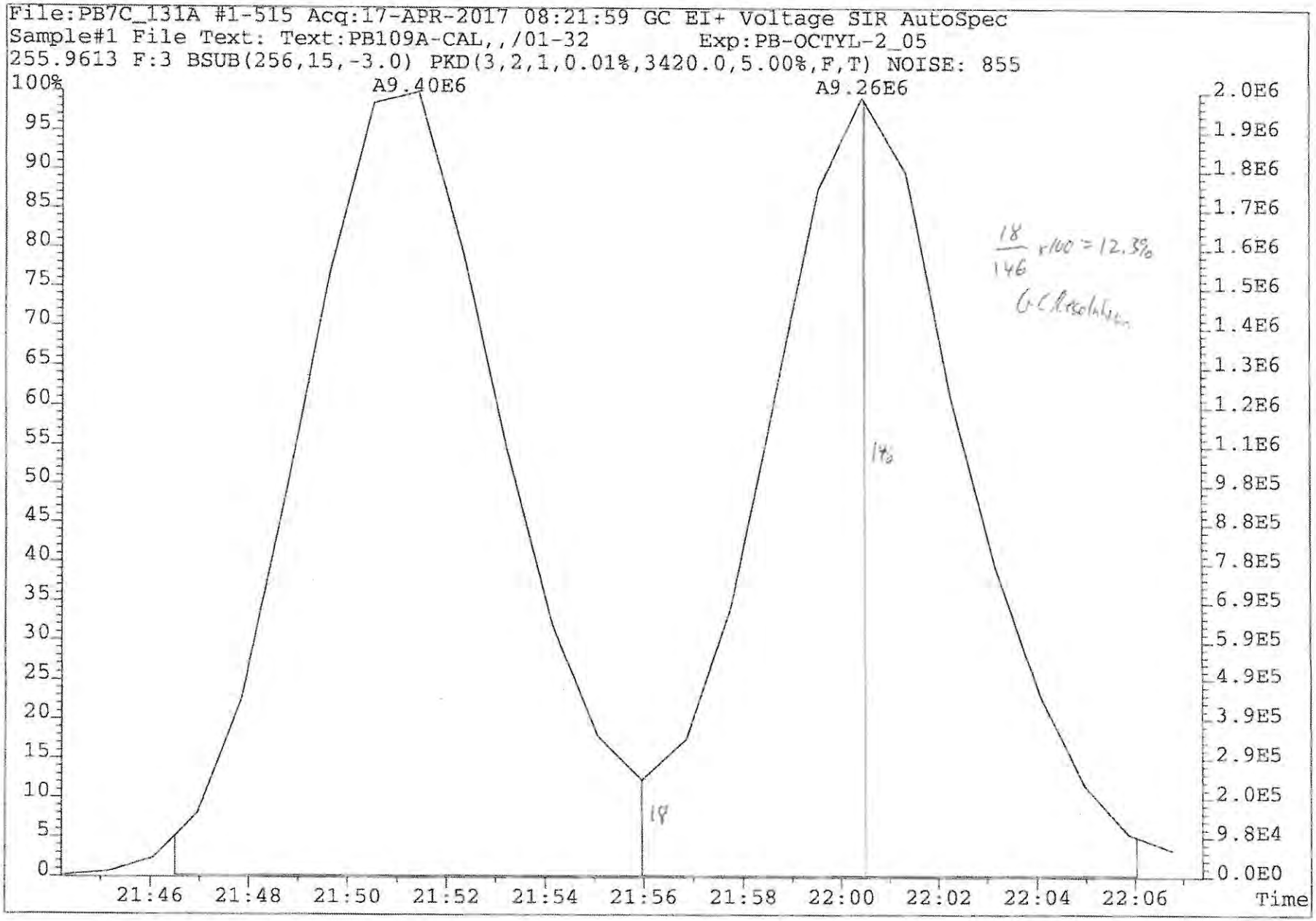
| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RRF | MZ's FORMING RATIO [3] | ION ABUND. RATIO | RATIO QC LIMITS [4] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 1.04 | **M/M+2** | 3.15 | 2.66-3.60 | 0.719 | 0.703 - 0.735 |
| **13C12-4-MoCB** | 3L | | | 1.00 | **M/M+2** | 3.11 | 2.66-3.60 | 0.857 | 0.842 - 0.873 |
| **13C12-2,2'-DiCB** | 4L | | | 0.63 | **M/M+2** | 1.59 | 1.33-1.79 | 0.873 | 0.857 - 0.889 |
| **13C12-4,4'-DiCB** | 15L | | | 1.03 | **M/M+2** | 1.57 | 1.33-1.79 | 1.252 | 1.236 - 1.267 |
| **13C12-2,2',6-TriCB** | 19L | | | 0.64 | **M/M+2** | 1.04 | 0.88-1.20 | 1.072 | 1.056 - 1.087 |
| **13C12-3,4,4'-TriCB** | 37L | | | 1.37 | **M/M+2** | 1.05 | 0.88-1.20 | 1.090 | 1.081 - 1.100 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 1.28 | **M/M+2** | 0.79 | 0.65-0.89 | 0.811 | 0.804 - 0.818 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 1.24 | **M/M+2** | 0.77 | 0.65-0.89 | 1.396 | 1.389 - 1.403 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 1.22 | **M/M+2** | 0.76 | 0.65-0.89 | 1.372 | 1.365 - 1.379 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 1.40 | **M+2/M+4** | 1.57 | 1.32-1.78 | 0.809 | 0.804 - 0.814 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 0.96 | **M+2/M+4** | 1.63 | 1.32-1.78 | 1.200 | 1.195 - 1.205 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 1.03 | **M+2/M+4** | 1.63 | 1.32-1.78 | 1.179 | 1.174 - 1.184 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 1.11 | **M+2/M+4** | 1.58 | 1.32-1.78 | 1.162 | 1.157 - 1.167 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 1.15 | **M+2/M+4** | 1.58 | 1.32-1.78 | 1.151 | 1.146 - 1.156 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 0.79 | **M+2/M+4** | 1.54 | 1.32-1.78 | 1.301 | 1.296 - 1.306 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 2.22 | **M+2/M+4** | 1.24 | 1.05-1.43 | 0.786 | 0.782 - 0.790 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 1.10 | **M+2/M+4** | 1.25 | 1.05-1.43 | 1.107 | 1.103 - 1.112 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 1.11 | **M+2/M+4** | 1.27 | 1.05-1.43 | 1.078 | 1.074 - 1.082 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 1.02 | **M+2/M+4** | 1.24 | 1.05-1.43 | 1.192 | 1.187 - 1.196 |
| **13C12-2,2',3,3',4,4',5-HpCB** | 170L | | | 1.28 | **M+2/M+4** | 1.06 | 0.89-1.21 | 0.897 | 0.894 - 0.900 |
| **13C12-2,2',3,4,4',5,5'-HpCB** | 180L | | | 1.60 | **M+2/M+4** | 1.05 | 0.89-1.21 | 0.872 | 0.869 - 0.875 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 2.59 | **M+2/M+4** | 1.06 | 0.89-1.21 | 0.712 | 0.709 - 0.715 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 1.44 | **M+2/M+4** | 1.05 | 0.89-1.21 | 0.959 | 0.956 - 0.962 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 2.42 | **M+2/M+4** | 0.91 | 0.76-1.02 | 0.818 | 0.814 - 0.821 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 1.34 | **M+2/M+4** | 0.88 | 0.76-1.02 | 1.009 | 1.005 - 1.014 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 1.02 | **M+2/M+4** | 0.77 | 0.65-0.89 | 1.044 | 1.039 - 1.048 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 1.39 | **M+2/M+4** | 0.78 | 0.65-0.89 | 0.949 | 0.946 - 0.952 |

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

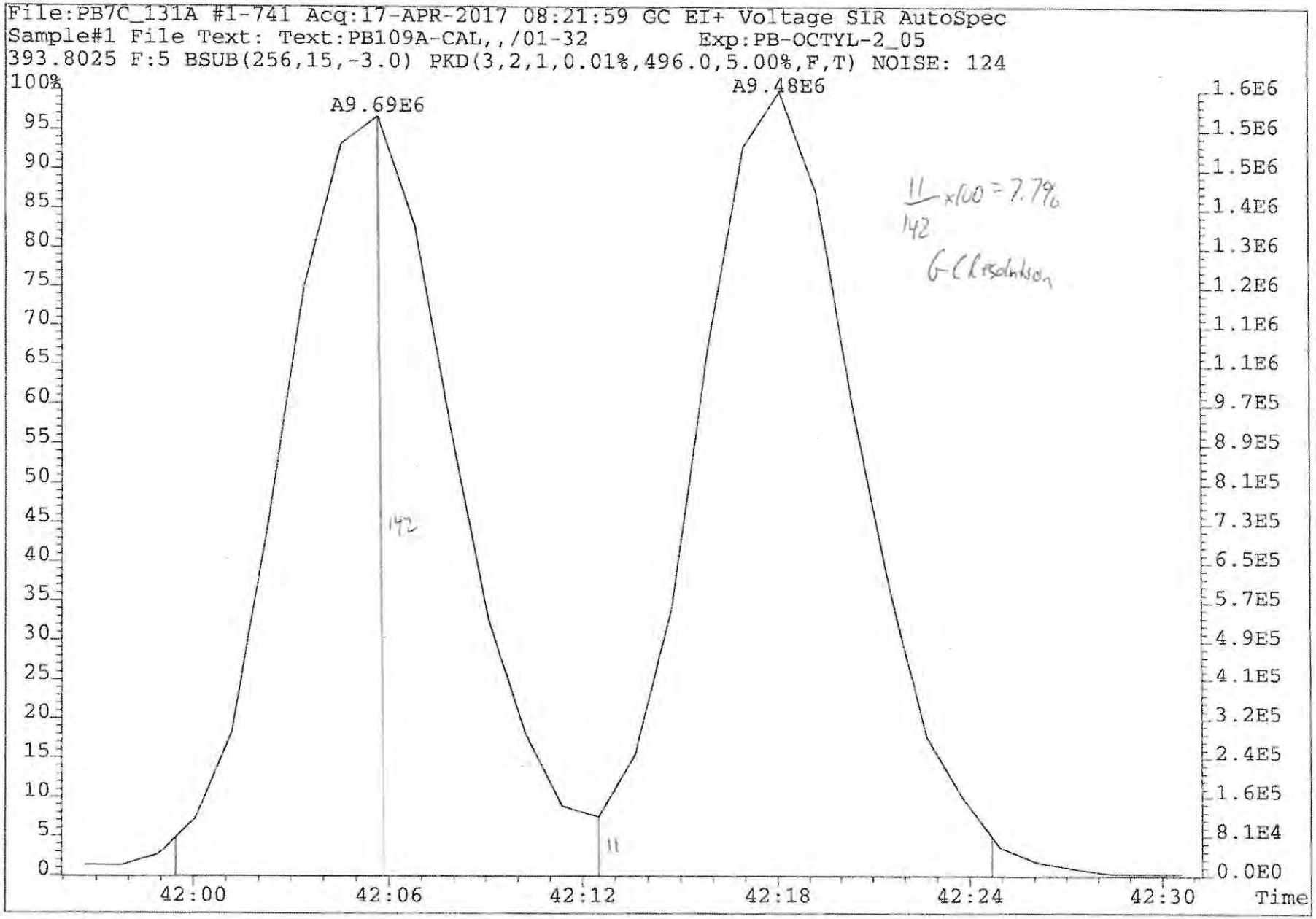
These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form1668346B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4; Report Filename: 1668_PCB1668_PB7C_131AS1__Form346B_SJ2199142_GS69769.html; Workgroup: WG58451; Design ID: 2063 ]




Analysis
18-Apr-2017




PVivyLLS
18-Apr-2017

**AXYS METHOD MLA-010 Rev 11**

**Form 4A**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 19:04:30 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | MZ's FORMING RATIO [2] | ION ABUND. RATIO | QC LIMITS [3] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | **M/M+2** | 3.00 | 2.66-3.60 | 20.7 | 18.8 - 31.3 |
| **4-MoCB** | 3 | | | **M/M+2** | 3.01 | 2.66-3.60 | 21.9 | 18.8 - 31.3 |
| **2,2'-DiCB** | 4 | | | **M/M+2** | 1.53 | 1.33-1.79 | 22.6 | 18.8 - 31.3 |
| **4,4'-DiCB** | 15 | | | **M/M+2** | 1.51 | 1.33-1.79 | 26.8 | 21.0 - 35.0 |
| **2,2',6-TriCB** | 19 | | | **M/M+2** | 1.05 | 0.88-1.20 | 26.6 | 18.8 - 31.3 |
| **3,4,4'-TriCB** | 37 | | | **M/M+2** | 1.01 | 0.88-1.20 | 23.4 | 18.8 - 31.3 |
| **2,2',6,6'-TeCB** | 54 | | | **M/M+2** | 0.77 | 0.65-0.89 | 50.5 | 37.5 - 62.5 |
| **3,3',4,4'-TeCB** | 77 | | | **M/M+2** | 0.74 | 0.65-0.89 | 46.1 | 37.5 - 62.5 |
| **3,4,4',5-TeCB** | 81 | | | **M/M+2** | 0.68 | 0.65-0.89 | 46.8 | 37.5 - 62.5 |
| **2,2',4,6,6'-PeCB** | 104 | | | **M+2/M+4** | 1.55 | 1.32-1.78 | 55.2 | 37.5 - 62.5 |
| **2,3,3',4,4'-PeCB** | 105 | | | **M+2/M+4** | 1.52 | 1.32-1.78 | 56.6 | 37.5 - 62.5 |
| **2,3,4,4',5-PeCB** | 114 | | | **M+2/M+4** | 1.45 | 1.32-1.78 | 51.7 | 37.5 - 62.5 |
| **2,3',4,4',5-PeCB** | 118 | | | **M+2/M+4** | 1.52 | 1.32-1.78 | 47.2 | 37.5 - 62.5 |
| **2',3,4,4',5-PeCB** | 123 | | | **M+2/M+4** | 1.51 | 1.32-1.78 | 47.8 | 37.5 - 62.5 |
| **3,3',4,4',5-PeCB** | 126 | | | **M+2/M+4** | 1.42 | 1.32-1.78 | 48.8 | 41.8 - 69.6 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | **M+2/M+4** | 1.24 | 1.05-1.43 | 50.0 | 37.5 - 62.5 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | **M+2/M+4** | 1.25 | 1.05-1.43 | 99.4 | 75.0 - 125 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | **M+2/M+4** | 1.24 | 1.05-1.43 | 53.2 | 37.5 - 62.5 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | **M+2/M+4** | 1.28 | 1.05-1.43 | 50.4 | 37.5 - 62.5 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 50.2 | 37.5 - 62.5 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | **M+2/M+4** | 1.03 | 0.89-1.21 | 49.3 | 37.5 - 62.5 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | **M+2/M+4** | 0.88 | 0.76-1.02 | 86.9 | 63.2 - 105 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | **M+2/M+4** | 0.88 | 0.76-1.02 | 75.2 | 56.3 - 93.8 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | **M+2/M+4** | 0.77 | 0.65-0.89 | 75.2 | 56.3 - 93.8 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | **M+2/M+4** | 0.78 | 0.65-0.89 | 83.9 | 62.9 - 105 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | **M+4/M+6** | 1.18 | 0.99-1.33 | 75.7 | 56.3 - 93.8 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16684A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_131AS11__Form4A_SJ2199169.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 4B**
**PCB CONGENER CALIBRATION VERIFICATION**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 19:04:30 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | MZ's FORMING RATIO [3] | ION ABUND. RATIO | QC LIMITS [4] | CONC. FOUND (ng/mL) | CONC. RANGE (ng/mL) |
|---|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | **M/M+2** | 3.09 | 2.66-3.60 | 99.5 | 50.0 - 145 |
| **13C12-4-MoCB** | 3L | | | **M/M+2** | 3.04 | 2.66-3.60 | 96.6 | 50.0 - 145 |
| **13C12-2,2'-DiCB** | 4L | | | **M/M+2** | 1.55 | 1.33-1.79 | 93.2 | 50.0 - 145 |
| **13C12-4,4'-DiCB** | 15L | | | **M/M+2** | 1.57 | 1.33-1.79 | 93.3 | 50.0 - 145 |
| **13C12-2,2',6-TriCB** | 19L | | | **M/M+2** | 1.04 | 0.88-1.20 | 105 | 50.0 - 145 |
| **13C12-3,4,4'-TriCB** | 37L | | | **M/M+2** | 1.04 | 0.88-1.20 | 80.1 | 50.0 - 145 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | **M/M+2** | 0.80 | 0.65-0.89 | 90.1 | 50.0 - 145 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | **M/M+2** | 0.77 | 0.65-0.89 | 84.9 | 50.0 - 145 |
| **13C12-3,4,4',5-TeCB** | 81L | | | **M/M+2** | 0.75 | 0.65-0.89 | 87.7 | 50.0 - 145 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | **M+2/M+4** | 1.57 | 1.32-1.78 | 80.1 | 50.0 - 145 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | **M+2/M+4** | 1.56 | 1.32-1.78 | 67.7 | 50.0 - 145 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | **M+2/M+4** | 1.69 | 1.32-1.78 | 78.8 | 50.0 - 145 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 86.1 | 50.0 - 145 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 87.7 | 50.0 - 145 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | **M+2/M+4** | 1.58 | 1.32-1.78 | 63.0 | 50.0 - 145 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | **M+2/M+4** | 1.27 | 1.05-1.43 | 130 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | **M+2/M+4** | 1.26 | 1.05-1.43 | 165 | 100 - 290 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | **M+2/M+4** | 1.23 | 1.05-1.43 | 87.6 | 50.0 - 145 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | **M+2/M+4** | 1.27 | 1.05-1.43 | 85.2 | 50.0 - 145 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | **M+2/M+4** | 1.05 | 0.89-1.21 | 98.2 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | **M+2/M+4** | 1.03 | 0.89-1.21 | 90.4 | 50.0 - 145 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | **M+2/M+4** | 0.94 | 0.76-1.02 | 86.6 | 50.0 - 145 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | **M+2/M+4** | 0.90 | 0.76-1.02 | 89.2 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | **M+2/M+4** | 0.77 | 0.65-0.89 | 92.3 | 50.0 - 145 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | **M+2/M+4** | 0.76 | 0.65-0.89 | 94.2 | 50.0 - 145 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | **M+4/M+6** | 1.20 | 0.99-1.33 | 96.0 | 50.0 - 145 |
| **CLEAN-UP STANDARD** | | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | **M/M+2** | 1.04 | 0.88-1.20 | 83.5 | 65.0 - 135 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | **M+2/M+4** | 1.59 | 1.32-1.78 | 95.7 | 75.0 - 125 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | **M+2/M+4** | 1.06 | 0.89-1.21 | 95.2 | 75.0 - 125 |

(1) Suffix "L" indicates labeled compound.
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(3) See Table 8, Method 1668A, for m/z specifications.
(4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16684B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_131AS11__Form4B_SJ2199169.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 6A**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 19:04:30 |

| COMPOUND | IUPAC NO. | CO-ELUTIONS | LAB FLAG [1] | RETENTION TIME REFERENCE | IUPAC NO. [2] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **2-MoCB** | 1 | | | 13C12-2-MoCB | 1L | 1.001 | 0.999-1.004 |
| **4-MoCB** | 3 | | | 13C12-4-MoCB | 3L | 1.001 | 0.999-1.004 |
| **2,2'-DiCB** | 4 | | | 13C12-2,2'-DiCB | 4L | 1.001 | 0.999-1.004 |
| **4,4'-DiCB** | 15 | | | 13C12-4,4'-DiCB | 15L | 1.001 | 0.999-1.002 |
| **2,2',6-TriCB** | 19 | | | 13C12-2,2',6-TriCB | 19L | 1.001 | 0.999-1.003 |
| **3,4,4'-TriCB** | 37 | | | 13C12-3,4,4'-TriCB | 37L | 1.001 | 0.999-1.002 |
| **2,2',6,6'-TeCB** | 54 | | | 13C12-2,2',6,6'-TeCB | 54L | 1.001 | 0.999-1.002 |
| **3,3',4,4'-TeCB** | 77 | | | 13C12-3,3',4,4'-TeCB | 77L | 1.001 | 1.000-1.001 |
| **3,4,4',5-TeCB** | 81 | | | 13C12-3,4,4',5-TeCB | 81L | 1.000 | 1.000-1.001 |
| **2,2',4,6,6'-PeCB** | 104 | | | 13C12-2,2',4,6,6'-PeCB | 104L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4'-PeCB** | 105 | | | 13C12-2,3,3',4,4'-PeCB | 105L | 1.001 | 1.000-1.001 |
| **2,3,4,4',5-PeCB** | 114 | | | 13C12-2,3,4,4',5-PeCB | 114L | 1.001 | 1.000-1.001 |
| **2,3',4,4',5-PeCB** | 118 | | | 13C12-2,3',4,4',5-PeCB | 118L | 1.001 | 1.000-1.001 |
| **2',3,4,4',5-PeCB** | 123 | | | 13C12-2',3,4,4',5-PeCB | 123L | 1.000 | 1.000-1.001 |
| **3,3',4,4',5-PeCB** | 126 | | | 13C12-3,3',4,4',5-PeCB | 126L | 1.000 | 1.000-1.001 |
| **2,2',4,4',6,6'-HxCB** | 155 | | | 13C12-2,2',4,4',6,6'-HxCB | 155L | 1.001 | 0.999-1.002 |
| **2,3,3',4,4',5-HxCB** | 156 | 156 + 157 | C | 13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB | 156L/157L | 1.001 | 0.999-1.003 |
| **2,3,3',4,4',5'-HxCB** | 157 | 156 + 157 | C156 | | | | |
| **2,3',4,4',5,5'-HxCB** | 167 | | | 13C12-2,3',4,4',5,5'-HxCB | 167L | 1.001 | 1.000-1.001 |
| **3,3',4,4',5,5'-HxCB** | 169 | | | 13C12-3,3',4,4',5,5'-HxCB | 169L | 1.001 | 1.000-1.001 |
| **2,2',3,4',5,6,6'-HpCB** | 188 | | | 13C12-2,2',3,4',5,6,6'-HpCB | 188L | 1.001 | 1.000-1.001 |
| **2,3,3',4,4',5,5'-HpCB** | 189 | | | 13C12-2,3,3',4,4',5,5'-HpCB | 189L | 1.000 | 1.000-1.001 |
| **2,2',3,3',5,5',6,6'-OcCB** | 202 | | | 13C12-2,2',3,3',5,5',6,6'-OcCB | 202L | 1.000 | 1.000-1.001 |
| **2,3,3',4,4',5,5',6-OcCB** | 205 | | | 13C12-2,3,3',4,4',5,5',6-OcCB | 205L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6-NoCB** | 206 | | | 13C12-2,2',3,3',4,4',5,5',6-NoCB | 206L | 1.000 | 1.000-1.001 |
| **2,2',3,3',4,5,5',6,6'-NoCB** | 208 | | | 13C12-2,2',3,3',4,5,5',6,6'-NoCB | 208L | 1.001 | 1.000-1.001 |
| **2,2',3,3',4,4',5,5',6,6'-DeCB** | 209 | | | 13C12-2,2',3,3',4,4',5,5',6,6'-DeCB | 209L | 1.001 | 1.000-1.001 |

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

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Report Filename: 1668_PCB1668_PB7C_131AS11__Form6A_SJ2199169.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**Form 6B**
**PCB CONGENER RELATIVE RETENTION TIMES**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Initial Calibration Date:** | 27-Nov-2016 | **VER Data Filename:** | PB7C_131A S: 11 |
| **Instrument ID:** | HR GC/MS | **Analysis Date:** | 17-Apr-2017 |
| **GC Column ID:** | SPB OCTYL | **Analysis Time:** | 19:04:30 |

| LABELED COMPOUND | IUPAC NO. [1] | CO-ELUTIONS | LAB FLAG [2] | RETENTION TIME REFERENCE | IUPAC NO. [1] | RRT | RRT QC LIMITS |
|---|---|---|---|---|---|---|---|
| **13C12-2-MoCB** | 1L | | | 13C12-2,5-DiCB | 9L | 0.718 | 0.687-0.750 |
| **13C12-4-MoCB** | 3L | | | 13C12-2,5-DiCB | 9L | 0.858 | 0.827-0.889 |
| **13C12-2,2'-DiCB** | 4L | | | 13C12-2,5-DiCB | 9L | 0.873 | 0.842-0.904 |
| **13C12-4,4'-DiCB** | 15L | | | 13C12-2,5-DiCB | 9L | 1.253 | 1.222-1.285 |
| **13C12-2,2',6-TriCB** | 19L | | | 13C12-2,5-DiCB | 9L | 1.072 | 1.041-1.103 |
| **13C12-3,4,4'-TriCB** | 37L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.091 | 1.071-1.111 |
| **13C12-2,2',6,6'-TeCB** | 54L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.811 | 0.798-0.824 |
| **13C12-3,3',4,4'-TeCB** | 77L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.396 | 1.383-1.409 |
| **13C12-3,4,4',5-TeCB** | 81L | | | 13C12-2,2',5,5'-TeCB | 52L | 1.373 | 1.360-1.386 |
| **13C12-2,2',4,6,6'-PeCB** | 104L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 0.808 | 0.798-0.818 |
| **13C12-2,3,3',4,4'-PeCB** | 105L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.200 | 1.190-1.210 |
| **13C12-2,3,4,4',5-PeCB** | 114L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.179 | 1.168-1.189 |
| **13C12-2,3',4,4',5-PeCB** | 118L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.162 | 1.151-1.172 |
| **13C12-2',3,4,4',5-PeCB** | 123L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.151 | 1.141-1.162 |
| **13C12-3,3',4,4',5-PeCB** | 126L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.301 | 1.291-1.311 |
| **13C12-2,2',4,4',6,6'-HxCB** | 155L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 0.786 | 0.778-0.794 |
| **13C12-2,3,3',4,4',5-HxCB** | 156L | 156L + 157L | C | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.107 | 1.099-1.116 |
| **13C12-2,3,3',4,4',5'-HxCB** | 157L | 156L + 157L | C156L | | | | |
| **13C12-2,3',4,4',5,5'-HxCB** | 167L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.078 | 1.070-1.086 |
| **13C12-3,3',4,4',5,5'-HxCB** | 169L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.192 | 1.183-1.200 |
| **13C12-2,2',3,4',5,6,6'-HpCB** | 188L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.712 | 0.706-0.718 |
| **13C12-2,3,3',4,4',5,5'-HpCB** | 189L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.959 | 0.953-0.965 |
| **13C12-2,2',3,3',5,5',6,6'-OcCB** | 202L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.818 | 0.811-0.824 |
| **13C12-2,3,3',4,4',5,5',6-OcCB** | 205L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.009 | 1.000-1.019 |
| **13C12-2,2',3,3',4,4',5,5',6-NoCB** | 206L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.044 | 1.034-1.053 |
| **13C12-2,2',3,3',4,5,5',6,6'-NoCB** | 208L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 0.949 | 0.943-0.955 |
| **13C12-2,2',3,3',4,4',5,5',6,6'-DeCB** | 209L | | | 13C12-2,2',3,3',4,4',5,5'-OcCB | 194L | 1.075 | 1.065-1.084 |
| **CLEANUP STANDARD** | | | | | | | |
| **13C12-2,4,4'-TriCB** | 28L | | | 13C12-2,2',5,5'-TeCB | 52L | 0.925 | 0.911-0.938 |
| **13C12-2,3,3',5,5'-PeCB** | 111L | | | 13C12-2,2',4,5,5'-PeCB | 101L | 1.088 | 1.077-1.098 |
| **13C12-2,2',3,3',5,5',6-HpCB** | 178L | | | 13C12-2,2',3,4,4',5'-HxCB | 138L | 1.012 | 1.004-1.020 |

(1) Suffix "L" indicates labeled compound
(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Thong Do_____

For Axys Internal Use Only [ XSL Template: Form16686B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: 1668_PCB1668_PB7C_131AS11__Form6B_SJ2199169.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Sample Data Filename:** | **PB7C_129 S: 8** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. CONC. | FINAL CONC. | CHANGE CONC. (Final/Orig.) | ORIG. AREA | FINAL AREA | CHANGE AREA (Final/Orig.) | ORIG. RATIO | FINAL RATIO |
|---|---|---|---|---|---|---|---|---|
| **CL5-PCB-104** | | | | | | | | |
| **CL6-PCB-128/166** | | | | | | | | |
| **CL6-PCB-138/163/129/160** | | | | | | | | |
| **CL6-PCB-130** | | | | | | | | |
| **CL6-PCB-131** | | | | | | | | |
| **CL6-PCB-132** | | | | | | | | |
| **CL6-PCB-133** | | | | | | | | |
| **CL6-PCB-134/143** | | | | | | | | |
| **CL6-PCB-137** | | | | | | | | |
| **CL6-PCB-139/140** | | | | | | | | |
| **CL6-PCB-141** | | | | | | | | |
| **CL6-PCB-142** | | | | | | | | |
| **CL6-PCB-146** | | | | | | | | |
| **CL6-PCB-147/149** | | | | | | | | |
| **CL6-PCB-153/168** | | | | | | | | |
| **CL6-PCB-156/157** | | | | | | | | |
| **CL6-PCB-158** | | | | | | | | |
| **CL6-PCB-159** | | | | | | | | |
| **CL6-PCB-161** | | | | | | | | |
| **CL6-PCB-162** | | | | | | | | |
| **CL6-PCB-164** | | | | | | | | |
| **CL6-PCB-165** | | | | | | | | |
| **CL6-PCB-167** | | | | | | | | |
| **CL6-PCB-169** | | 6.26 | 10000 | | | | | |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-1_Audit1A_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Project No.** ICS-NW COOPERAGE

**Contract No.:** 4323

**Lab Sample I.D.:** L27062-1

**Sample Data Filename:** **PB7C_129 S: 8**

**Instrument ID:** HR GC/MS

**Analysis Date:** 12-Apr-2017 **Time:** 15:36:54

**GC Column ID:** SPB OCTYL

**Extract Volume (uL):** 20

**Injection Volume (uL):** 1.0

| COMPOUND | ORIG. SDL | FINAL SDL | CHANGE SDL (Final/Orig.) | ORIG. QUAL | FINAL QUAL | ORIG. RT | FINAL RT | REVIEWED BY | REVIEWED DATE |
|---|---|---|---|---|---|---|---|---|---|
| **CL5-PCB-104** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-128/166** | 22.4 | 6.73 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-138/163/129/160** | 21.9 | 6.57 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-130** | 27.3 | 8.18 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-131** | 25.6 | 7.69 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-132** | 26.7 | 8.02 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-133** | 25.0 | 7.49 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-134/143** | 25.0 | 7.50 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-137** | 26.3 | 7.88 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-139/140** | 22.3 | 6.68 | 0.300 | ND | | | | TDO | 21-APR-2017 |
| **CL6-PCB-141** | 23.6 | 7.09 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-142** | 24.8 | 7.43 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-146** | 19.1 | 5.72 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-147/149** | 21.6 | 6.47 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-153/168** | 19.7 | 5.91 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-156/157** | 24.1 | 7.22 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-158** | 16.9 | 5.08 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-159** | 18.1 | 5.44 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-161** | 16.5 | 4.95 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-162** | 18.0 | 5.40 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-164** | 17.8 | 5.34 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-165** | 20.1 | 6.02 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-167** | 20.4 | 6.12 | 0.300 | | | | | TDO | 21-APR-2017 |
| **CL6-PCB-169** | 21.6 | 6.48 | 0.300 | | | | | TDO | 21-APR-2017 |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-1_Audit1B_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Sample Data Filename:** | **PB7C_129 S: 8** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-1_Audit2A_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW1-W-032917**
**Sample Collection:**
**29-Mar-2017 16:00**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-1 |
| **Sample Data Filename:** | **PB7C_129 S: 8** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 15:36:54 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-1_Audit2B_PB7C_129S8_SJ2197886.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Sample Data Filename:** | **PB7C_129 S: 9** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. CONC. | FINAL CONC. | CHANGE CONC. (Final/Orig.) | ORIG. AREA | FINAL AREA | CHANGE AREA (Final/Orig.) | ORIG. RATIO | FINAL RATIO |
|---|---|---|---|---|---|---|---|---|
| **CL6-PCB-164** | | | | | | | | |
| **CL7-PCB-188** | | | | | | | | |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-2_Audit1A_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | ICS-NW COOPERAGE | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Sample Data Filename:** | **PB7C_129 S: 9** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. SDL | FINAL SDL | CHANGE SDL (Final/Orig.) | ORIG. QUAL | FINAL QUAL | ORIG. RT | FINAL RT | REVIEWED BY | REVIEWED DATE |
|---|---|---|---|---|---|---|---|---|---|
| **CL6-PCB-164** | | | | NDR | | | | TDO | 21-APR-2017 |
| **CL7-PCB-188** | | | | | ND | | | TDO | 21-APR-2017 |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-2_Audit1B_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Sample Data Filename:** | **PB7C_129 S: 9** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-2_Audit2A_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-SAMW2-W-032917**
**Sample Collection:**
**29-Mar-2017 13:40**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-2 |
| **Sample Data Filename:** | **PB7C_129 S: 9** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 16:41:09 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-2_Audit2B_PB7C_129S9_SJ2197888.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Sample Data Filename:** | **PB7C_131A S: 7** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-3_Audit1A_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Sample Data Filename:** | **PB7C_131A S: 7** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-3_Audit1B_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Sample Data Filename:** | **PB7C_131A S: 7** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-3_Audit2A_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**ICS-DOFMW3-W-032917**
**Sample Collection:**
**29-Mar-2017 10:25**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | ICS-NW COOPERAGE |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | L27062-3 i |
| **Sample Data Filename:** | **PB7C_131A S: 7** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 17-Apr-2017 **Time:** 14:47:36 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

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Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_L27062-3_Audit2B_PB7C_131AS7_SJ2199167.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 4** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. CONC. | FINAL CONC. | CHANGE CONC. (Final/Orig.) | ORIG. AREA | FINAL AREA | CHANGE AREA (Final/Orig.) | ORIG. RATIO | FINAL RATIO |
|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-27** | | | | | | | | |
| **CL3-PCB-35** | | | | | | | | |
| **CL4-PCB-44/47/65** | | | | | | | | |
| **CL4-PCB-52** | | | | | | | | |
| **CL4-PCB-59/62/75** | | | | | | | | |
| **CL5-PCB-84** | | | | | | | | |
| **CL5-PCB-88/91** | | | | | | | | |
| **CL5-PCB-105** | | | | | | | | |
| **CL6-PCB-132** | | | | | | | | |
| **CL6-PCB-141** | | | | | | | | |
| **CL6-PCB-156/157** | | | | | | | | |
| **CL6-PCB-158** | | | | | | | | |
| **CL7-PCB-187** | | | | | | | | |
| **CL8-PCB-194** | | | | | | | | |
| **CL8-PCB-203** | | | | | | | | |
| **CL8-PCB-205** | | | | | | | | |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-101_Audit1A_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Project No.** N/A

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 4** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. SDL | FINAL SDL | CHANGE SDL (Final/Orig.) | ORIG. QUAL | FINAL QUAL | ORIG. RT | FINAL RT | REVIEWED BY | REVIEWED DATE |
|---|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-27** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL3-PCB-35** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL4-PCB-44/47/65** | | | | NDR | | | | TDO | 21-APR-2017 |
| **CL4-PCB-52** | | | | NDR | | | | TDO | 21-APR-2017 |
| **CL4-PCB-59/62/75** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL5-PCB-84** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL5-PCB-88/91** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL5-PCB-105** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL6-PCB-132** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-141** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-156/157** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-158** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL7-PCB-187** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL8-PCB-194** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL8-PCB-203** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL8-PCB-205** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-101_Audit1B_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 4** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-101_Audit2A_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-101 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 4** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 11:19:52 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-101_Audit2B_PB7C_129S4_SJ2197877.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Project No.** | N/A | | |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 5** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. CONC. | FINAL CONC. | CHANGE CONC. (Final/Orig.) | ORIG. AREA | FINAL AREA | CHANGE AREA (Final/Orig.) | ORIG. RATIO | FINAL RATIO |
|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-25** | | | | | | | | |
| **CL3-PCB-27** | | | | | | | | |
| **CL4-PCB-60** | | | | | | | | |
| **CL5-PCB-92** | | | | | | | | |
| **CL7-PCB-179** | | | | | | | | |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-103_Audit1A_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Project No.** N/A

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 5** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. SDL | FINAL SDL | CHANGE SDL (Final/Orig.) | ORIG. QUAL | FINAL QUAL | ORIG. RT | FINAL RT | REVIEWED BY | REVIEWED DATE |
|---|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-25** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL3-PCB-27** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL4-PCB-60** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL5-PCB-92** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL7-PCB-179** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-103_Audit1B_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 5** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-103_Audit2A_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-103 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 5** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 12:24:07 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-103_Audit2B_PB7C_129S5_SJ2197880.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Project No.** N/A

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 6** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. CONC. | FINAL CONC. | CHANGE CONC. (Final/Orig.) | ORIG. AREA | FINAL AREA | CHANGE AREA (Final/Orig.) | ORIG. RATIO | FINAL RATIO |
|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-27** | | | | | | | | |
| **CL4-PCB-59/62/75** | | | | | | | | |
| **CL5-PCB-104** | | | | | | | | |
| **CL5-PCB-105** | | | | | | | | |
| **CL6-PCB-128/166** | | | | | | | | |
| **CL6-PCB-134/143** | | | | | | | | |
| **CL6-PCB-151/135/154** | | | | | | | | |
| **CL6-PCB-136** | | | | | | | | |
| **CL6-PCB-141** | | | | | | | | |
| **CL6-PCB-146** | | | | | | | | |
| **CL6-PCB-155** | | | | | | | | |
| **CL7-PCB-179** | | | | | | | | |
| **CL7-PCB-180/193** | | | | | | | | |
| **CL7-PCB-187** | | | | | | | | |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-104_Audit1A_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

**Project No.** N/A

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 6** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

| COMPOUND | ORIG. SDL | FINAL SDL | CHANGE SDL (Final/Orig.) | ORIG. QUAL | FINAL QUAL | ORIG. RT | FINAL RT | REVIEWED BY | REVIEWED DATE |
|---|---|---|---|---|---|---|---|---|---|
| **CL3-PCB-27** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL4-PCB-59/62/75** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL5-PCB-104** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL5-PCB-105** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-128/166** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-134/143** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-151/135/154** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-136** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-141** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL6-PCB-146** | | | | | ND | | | TDO | 21-APR-2017 |
| **CL6-PCB-155** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL7-PCB-179** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL7-PCB-180/193** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |
| **CL7-PCB-187** | | | | NDR | ND(R) | | | TDO | 21-APR-2017 |

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-104_Audit1B_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 6** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-104_Audit2A_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Lab Blank**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| | | **Project No.** | N/A |
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-104 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 6** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 13:28:20 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

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Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-104_Audit2B_PB7C_129S6_SJ2197883.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Spiked Matrix**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 2** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-102_Audit1A_PB7C_129S2_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 1B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Spiked Matrix**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 2** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit1B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-102_Audit1B_PB7C_129S2_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2A CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Spiked Matrix**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 2** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2A.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-102_Audit2A_PB7C_129S2_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

**AXYS METHOD MLA-010 Rev 11**

**AUDIT 2B CHANGE REPORT**

**CLIENT SAMPLE NO.**
**Spiked Matrix**
**Sample Collection:**
**N/A**

**SGS AXYS ANALYTICAL SERVICES**
2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

| | | | |
|---|---|---|---|
| **Contract No.:** | 4323 | **Lab Sample I.D.:** | WG58451-102 i:4323 |
| **Sample Data Filename:** | **PB7C_129 S: 2** | **Instrument ID:** | HR GC/MS |
| **Analysis Date:** | 12-Apr-2017 **Time:** 09:11:17 | **GC Column ID:** | SPB OCTYL |
| **Extract Volume (uL):** | 20 | **Injection Volume (uL):** | 1.0 |

There were no differences found between the parsed and reported data.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Shelley Honkanen_____

For Axys Internal Use Only [ XSL Template: Audit2B.xsl; Created: 21-Apr-2017 15:37:41; Application: XMLTransformer-1.16.4;
Report Filename: AUDIT_PCB1668_PCBTFC_WG58451-102_Audit2B_PB7C_129S2_SJ2197872.html; Workgroup: WG58451; Design ID: 2063 ]

OPUSquan 15-APR-2017 Page 1



Run #13 Filename PB7C_129 S: 8 I: 1 Acquired: 12-APR-17 15:36:54 Processed: 13-APR-17 07:58:25
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-1,, Comments: 1,WG58451,1.0/20uL
sample size: 0.991230 conc units: pg/L total toxicity: 6085.04 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 1.23e+05 | 3.12 | y | 11:30 | 3.726 | 4 | 0.2018 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 8.72e+04 | 4.05 | n | 13:44 | 2.600 | 3 | 0.2317 | - | y |
| 3 | Unk | CL2-PCB-4 | 1 | 4.91e+06 | 1.55 | y | 13:59 | 222.491 | 222 | 1.0370 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.68e+07 | 1.55 | y | 20:02 | 411.218 | 411 | 0.7267 | - | y |
| 5 | Unk | CL3-PCB-19 | 1 | 2.12e+07 | 1.05 | y | 17:09 | 1047.068 | 1047 | 0.3014 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 1.47e+07 | 1.03 | y | 27:21 | 391.799 | 392 | 2.5466 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 6.53e+05 | 0.74 | y | 20:20 | 20.988 | 21 | 0.1430 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 1.33e+05 | 0.72 | y | 34:25 | 4.510 | 5 | 8.1379 | - | y |
| 9 | Unk | CL4-PCB-77 | 1 | 3.65e+06 | 0.83 | y | 34:59 | 124.806 | 125 | 8.3176 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 1.00e+04 | 0.83 | n | 26:03 | 0.423 | 0 | 0.1363 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 4.59e+05 | 1.45 | y | 37:05 | 22.460 | 22 | 7.9286 | - | y |
| 12 | Unk | CL5-PCB-118 | 1 | 3.86e+07 | 1.54 | y | 37:25 | 1803.131 | 1803 | 7.4515 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 4.87e+05 | 1.65 | y | 37:58 | 23.267 | 23 | 7.5265 | - | y |
| 14 | Unk | CL5-PCB-105 | 1 | 1.18e+07 | 1.60 | y | 38:40 | 534.805 | 535 | 7.2087 | - | n |
| 15 | Unk | CL5-PCB-126 | 0 | * | * | n | NotFnd | * | * | 9.4915 | - | n |
| 16 | Unk | CL6-PCB-155 | 0 | * | * | n | NotFnd | * | * | 0.1598 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 3.30e+06 | 1.32 | y | 43:50 | 201.829 | 202 | 20.4164 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 1.13e+07 | 1.23 | y | 45:01 | 670.879 | 671 | 24.0791 | - | n |
| 19 | Unk | CL6-PCB-169 | 0 | 1.02e+05 | 1.32* | ~~n~~ y | ~~NotFnd~~ 48:26 | 6.264 | 6* | 21.5877 | - | n SJH 21-Apr-2017 |
| 20 | Unk | CL7-PCB-188 | 0 | * | * | n | NotFnd | * | * | 0.2551 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 2.00e+06 | 0.99 | y | 51:06 | 118.819 | 119 | 0.9686 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 3.17e+06 | 0.94 | y | 43:34 | 266.073 | 266 | 0.3042 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 7.29e+05 | 0.93 | y | 53:47 | 53.417 | 53 | 0.7899 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 3.18e+05 | 0.80 | y | 50:35 | 30.562 | 31 | 0.4714 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.16e+06 | 0.77 | y | 55:36 | 127.133 | 127 | 0.5595 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 3.66e+04 | 0.97 | n | 57:16 | 3.040 | 3 | 0.2790 | - | y |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 6.08e+07 | 3.21 | y | 11:29 | 830.347 | 0 | 1.9995 | 41.2 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 6.18e+07 | 3.13 | y | 13:43 | 866.128 | 0 | 2.0503 | 42.9 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 4.35e+07 | 1.61 | y | 13:58 | 925.554 | 0 | 1.1378 | 45.9 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 8.87e+07 | 1.59 | y | 20:02 | 1153.831 | 0 | 0.6949 | 57.2 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 4.14e+07 | 1.05 | y | 17:08 | 985.100 | 0 | 2.8997 | 48.8 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 7.47e+07 | 1.06 | y | 27:20 | 1359.556 | 0 | 3.7095 | 67.4 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 6.03e+07 | 0.78 | y | 20:18 | 1341.276 | 0 | 0.3096 | 66.5 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 5.83e+07 | 0.79 | y | 34:23 | 1309.510 | 0 | 0.3676 | 64.9 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 5.88e+07 | 0.78 | y | 34:58 | 1280.977 | 0 | 0.3566 | 63.5 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 4.57e+07 | 1.59 | y | 26:01 | 1232.139 | 0 | 0.0928 | 61.1 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 4.25e+07 | 1.59 | y | 37:04 | 1277.244 | 0 | 2.4936 | 63.3 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 4.22e+07 | 1.58 | y | 37:24 | 1287.817 | 0 | 2.5269 | 63.8 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 3.98e+07 | 1.62 | y | 37:57 | 1250.587 | 0 | 2.6066 | 62.0 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 4.38e+07 | 1.60 | y | 38:38 | 1341.291 | 0 | 2.5398 | 66.5 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 3.46e+07 | 1.57 | y | 41:52 | 1158.072 | 0 | 2.7729 | 57.4 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 4.37e+07 | 1.25 | y | 31:57 | 1411.739 | 0 | 0.1061 | 70.0 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 2.98e+07 | 1.28 | y | 43:49 | 1325.782 | 0 | 0.1834 | 65.7 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 6.32e+07 | 1.27 | y | 45:01 | 2695.045 | 0 | 0.1759 | 66.8 | n |

DL adjustment: factor 0.3 applied to DL of Hexa in fn. 5 DL SVD BY SJH 20-Apr-2017

PV by TD 15-Apr-2017

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 3.22e+07 | 1.25 | y | 48:26 | 1440.363 | 0 | 0.1844 | 71.4 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 3.54e+07 | 1.07 | y | 37:56 | 1016.399 | 0 | 0.1456 | 50.4 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 3.38e+07 | 1.05 | y | 51:04 | 1493.132 | 0 | 1.4077 | 74.0 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 2.81e+07 | 0.90 | y | 43:33 | 871.560 | 0 | 0.1296 | 43.2 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 2.89e+07 | 0.90 | y | 53:46 | 1364.758 | 0 | 0.4688 | 67.6 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 2.31e+07 | 0.81 | y | 50:33 | 1136.086 | 0 | 0.2556 | 56.3 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 1.96e+07 | 0.77 | y | 55:35 | 1278.783 | 0 | 0.3380 | 63.4 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 2.39e+07 | 1.21 | y | 57:15 | 1235.875 | 0 | 0.2194 | 61.3 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.42e+08 | 1.58 | y | 15:59 | 89.963 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 6.47e+07 | 0.78 | y | 25:03 | 74.499 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 5.09e+07 | 1.59 | y | 32:11 | 66.340 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.59e+07 | 1.25 | y | 40:39 | 52.693 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.81e+07 | 0.92 | y | 53:16 | 65.587 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 8.91e+07 | 1.07 | y | 23:09 | 1643.463 | 0 | 3.7607 | 81.5 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 4.54e+07 | 1.60 | y | 35:01 | 1373.399 | 0 | 0.1484 | 68.1 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 2.47e+07 | 1.06 | y | 41:08 | 1407.558 | 0 | 0.2722 | 69.8 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 6.03e+07 | 0.78 | y | 20:18 | 1341.276 | 0 | 0.3096 | 66.5 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 3.54e+07 | 1.07 | y | 37:56 | 1016.399 | 0 | 0.1456 | 50.4 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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Run #6 Filename PB7C_129 S: 8 I: 1 Acquired: 12-APR-17 15:36:54 Processed: 13-APR-17 08:22:41
Run: pb7c_129-tc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-1,, Comments: 1,WG58451,1.0/20uL
sample size: 0.991230 conc units: pg/L total toxicity: 198987* F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 6.05e+04 | 3.26 | y | 13:33 | 1.774 | 2 | 0.2112 | - | n |
| 2 | Unk | CL2-PCB-10 | 1 | 2.15e+05 | 1.76 | y | 14:09 | 5.393 | 5 | 0.6582 | - | n |
| 3 | Unk | CL2-PCB-9 | 1 | 4.97e+04 | 1.56 | y | 16:00 | 1.189 | 1 | 0.6283 | - | y |
| 4 | Unk | CL2-PCB-7 | 1 | 1.30e+05 | 1.79 | y | 16:11 | 3.167 | 3 | 0.6409 | - | y |
| 5 | Unk | CL2-PCB-6 | 1 | 2.46e+05 | 1.57 | y | 16:25 | 5.854 | 6 | 0.6256 | - | n |
| 6 | Unk | CL2-PCB-5 | 0 | * | * | n | NotFnd | * | * | 0.6849 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 1.63e+06 | 1.61 | y | 16:52 | 36.735 | 37 | 0.5920 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 0.6321 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 2.21e+06 | 1.58 | y | 19:25 | 53.273 | 53 | 0.6337 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 1 | 3.14e+05 | 1.70 | y | 19:44 | 7.717 | 8 | 0.6460 | - | y |
| 11 | Unk | CL3-PCB-30/18 | 1 | 1.43e+08 | 1.05 | y | 19:05 | 4655.506 | 4656 | 0.2217 | - | n |
| 12 | Unk | CL3-PCB-17 | 1 | 4.62e+07 | 1.07 | y | 19:31 | 1775.135 | 1775 | 0.2624 | - | n |
| 13 | Unk | CL3-PCB-27 | 1 | 1.28e+07 | 1.06 | y | 19:44 | 347.069 | 347 | 0.1852 | - | n |
| 14 | Unk | CL3-PCB-24 | 0 | * | * | n | NotFnd | * | * | 0.2006 | - | n |
| 15 | Unk | CL3-PCB-16 | 1 | 4.48e+07 | 1.06 | y | 19:58 | 1965.694 | 1966 | 0.2995 | - | n |
| 16 | Unk | CL3-PCB-32 | 1 | 6.74e+07 | 1.04 | y | 20:31 | 1639.294 | 1639 | 2.1000 | - | n |
| 17 | Unk | CL3-PCB-34 | 1 | 3.30e+05 | 0.93 | y | 21:50 | 8.474 | 8 | 2.2153 | - | n |
| 18 | Unk | CL3-PCB-23 | 0 | * | * | n | NotFnd | * | * | 2.3490 | - | n |
| 19 | Unk | CL3-PCB-26/29 | 1 | 1.40e+07 | 1.05 | y | 22:19 | 350.799 | 351 | 2.1555 | - | n |
| 20 | Unk | CL3-PCB-25 | 1 | 4.71e+06 | 1.05 | y | 22:34 | 103.788 | 104 | 1.9025 | - | n |
| 21 | Unk | CL3-PCB-31 | 1 | 6.84e+07 | 1.03 | y | 22:53 | 1630.876 | 1631 | 2.0585 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 1.29e+08 | 1.03 | y | 23:11 | 3142.460 | 3142 | 2.0959 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 7.60e+06 | 1.03 | y | 23:25 | 184.239 | 184 | 2.0909 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 5.46e+06 | 1.06 | y | 23:50 | 145.109 | 145 | 2.2946 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 2.0710 | - | n |
| 26 | Unk | CL3-PCB-39 | 1 | 1.78e+06 | 0.99 | y | 25:53 | 40.123 | 40 | 1.9420 | - | n |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 2.0682 | - | n |
| 28 | Unk | CL3-PCB-35 | 1 | 1.04e+06 | 1.08 | y | 27:00 | 26.186 | 26 | 2.1749 | - | n |
| 29 | Unk | CL4-PCB-50/53 | 1 | 3.56e+07 | 0.78 | y | 22:34 | 1370.338 | 1370 | 0.2082 | - | n |
| 30 | Unk | CL4-PCB-45/51 | 1 | 4.09e+07 | 0.80 | y | 23:16 | 1617.893 | 1618 | 0.2136 | - | n |
| 31 | Unk | CL4-PCB-46 | 1 | 1.22e+07 | 0.80 | y | 23:34 | 550.354 | 550 | 0.2447 | - | n |
| 32 | Unk | CL4-PCB-52 | 1 | 2.08e+08 | 0.79 | y | 25:04 | 7796.015 | 7796 | 0.2028 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.1597 | - | n |
| 34 | Unk | CL4-PCB-43 | 1 | 5.12e+06 | 0.78 | y | 25:19 | 270.695 | 271 | 0.2857 | - | n |
| 35 | Unk | CL4-PCB-69/49 | 1 | 9.46e+07 | 0.79 | y | 25:34 | 3268.600 | 3269 | 0.1868 | - | n |
| 36 | Unk | CL4-PCB-48 | 1 | 2.98e+07 | 0.79 | y | 25:52 | 1105.538 | 1106 | 0.2007 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 1.55e+08 | 0.79 | y | 26:06 | 5466.597 | 5467 | 0.1908 | - | n |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 1.12e+07 | 0.78 | y | 26:26 | 328.864 | 329 | 0.1589 | - | n |
| 39 | Unk | CL4-PCB-42 | 1 | 3.14e+07 | 0.78 | y | 26:38 | 1358.954 | 1359 | 0.2336 | - | n |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 6.95e+07 | 0.78 | y | 27:08 | 2847.352 | 2847 | 0.2215 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 5.43e+07 | 0.80 | y | 27:23 | 1639.254 | 1639 | 0.1631 | - | n |
| 42 | Unk | CL4-PCB-72 | 1 | 5.71e+05 | 0.69 | y | 28:17 | 15.995 | 16 | 6.2293 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 1.65e+05 | 0.76 | y | 28:34 | 4.536 | 5 | 6.1100 | - | y |
| 44 | Unk | CL4-PCB-57 | 0 | * | * | n | NotFnd | * | * | 6.1683 | - | n |

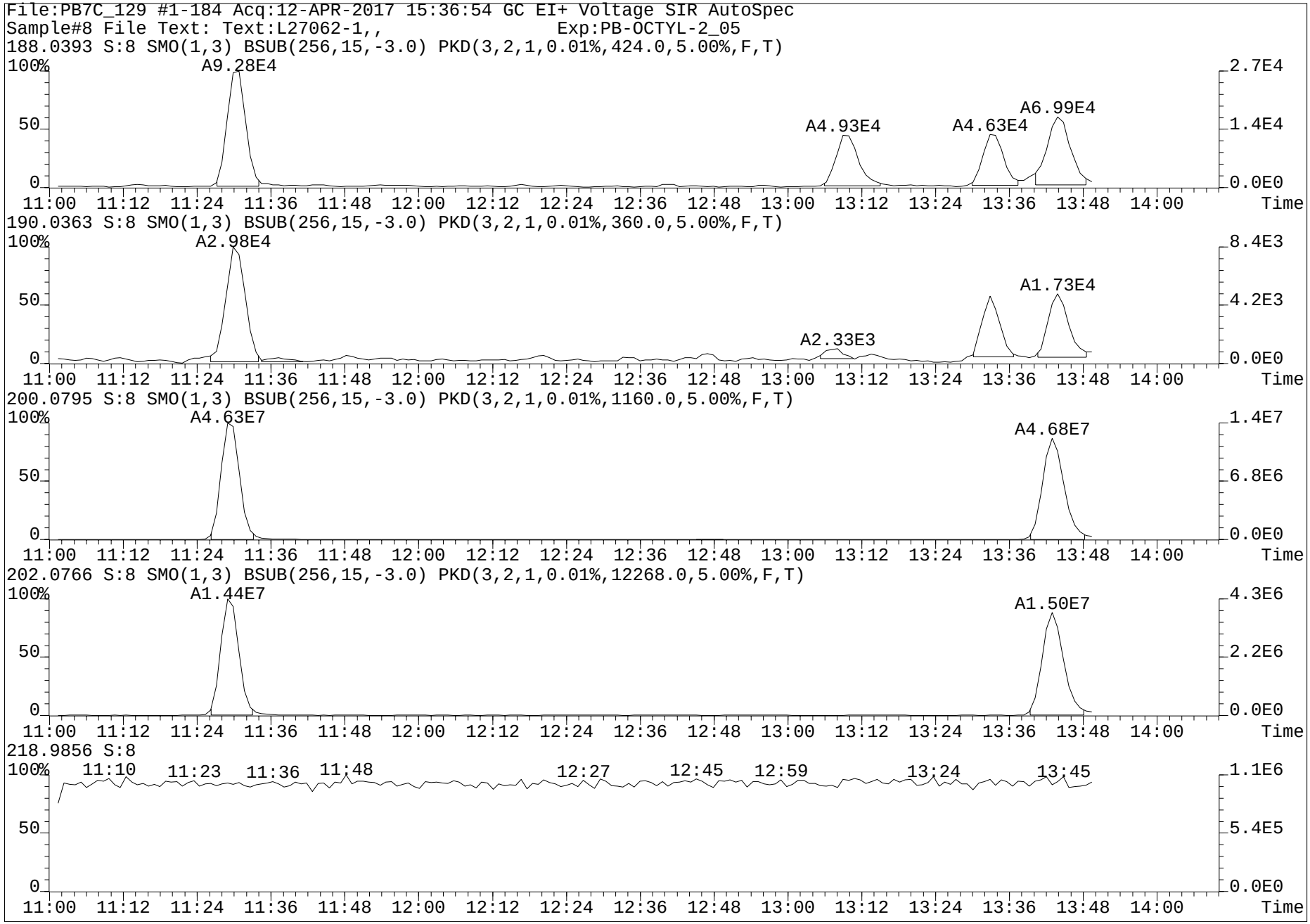
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 0 | * | * | n | NotFnd | * | * | 6.7738 | - | n |
| 46 | Unk | CL4-PCB-67 | 1 | 1.45e+06 | 0.76 | y | 29:27 | 36.061 | 36 | 5.5310 | - | n |
| 47 | Unk | CL4-PCB-63 | 1 | 1.01e+06 | 0.87 | y | 29:43 | 29.032 | 29 | 6.4036 | - | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 1.40e+08 | 0.78 | y | 30:03 | 4191.224 | 4191 | 6.6444 | - | n |
| 49 | Unk | CL4-PCB-66 | 1 | 7.78e+07 | 0.78 | y | 30:24 | 2280.740 | 2281 | 6.5207 | - | n |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 7.1572 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 3.45e+07 | 0.79 | y | 31:06 | 1116.344 | 1116 | 7.1937 | - | n |
| 52 | Unk | CL4-PCB-60 | 1 | 7.53e+06 | 0.80 | y | 31:19 | 242.600 | 243 | 7.1621 | - | n |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 6.4059 | - | n |
| 54 | Unk | CL4-PCB-79 | 1 | 6.97e+05 | 0.76 | y | 33:19 | 18.686 | 19 | 5.9633 | - | y |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 7.1648 | - | n |
| 56 | Unk | CL5-PCB-96 | 1 | 1.19e+06 | 1.63 | y | 26:25 | 48.298 | 48 | 0.1489 | - | n |
| 57 | Unk | CL5-PCB-103 | 1 | 1.17e+06 | 1.59 | y | 28:27 | 58.975 | 59 | 2.2959 | - | n |
| 58 | Unk | CL5-PCB-94 | 1 | 4.03e+05 | 1.44 | y | 28:41 | 25.355 | 25 | 2.8579 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 2.03e+08 | 1.60 | y | 29:08 | 11535.754 | 11536 | 2.5785 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 1 | 6.79e+06 | 1.63 | y | 30:01 | 405.036 | 405 | 2.7105 | - | n |
| 61 | Unk | CL5-PCB-84 | 1 | 1.44e+07 | 1.58 | y | 30:15 | 965.374 | 965 | 3.0508 | - | n |
| 62 | Unk | CL5-PCB-89 | 1 | 1.03e+06 | 1.44 | y | 30:45 | 64.471 | 64 | 2.8455 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 2.0757 | - | n |
| 64 | Unk | CL5-PCB-92 | 1 | 2.20e+07 | 1.57 | y | 31:37 | 1313.422 | 1313 | 2.7096 | - | n |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 2.12e+08 | 1.58 | y | 32:12 | 11127.742 | 11128 | 2.3898 | - | n |
| 66 | Unk | CL5-PCB-83/99 | 1 | 2.03e+07 | 1.59 | y | 32:48 | 1282.650 | 1283 | 2.8680 | - | y |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 1.9130 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 4.14e+07 | 1.59 | y | 33:24 | 2191.074 | 2191 | 2.4047 | - | n |
| 69 | Unk | CL5-PCB-117/116/85 | 1 | 6.41e+06 | 1.57 | y | 34:05 | 327.710 | 328 | 2.3253 | - | n |
| 70 | Unk | CL5-PCB-110/115 | 1 | 1.04e+08 | 1.58 | y | 34:16 | 4682.347 | 4682 | 2.0506 | - | n |
| 71 | Unk | CL5-PCB-82 | 1 | 4.65e+06 | 1.53 | y | 34:35 | 314.745 | 315 | 3.0738 | - | n |
| 72 | Unk | CL5-PCB-111 | 0 | * | * | n | NotFnd | * | * | 2.0118 | - | n |
| 73 | Unk | CL5-PCB-120 | 1 | 1.21e+05 | 2.05 | n | 35:31 | 4.928 | 5 | 1.8515 | - | y |
| 74 | Unk | CL5-PCB-108/124 | 1 | 1.02e+06 | 1.39 | y | 36:42 | 45.837 | 46 | 6.9706 | - | n |
| 75 | Unk | CL5-PCB-107 | 1 | 1.92e+06 | 1.57 | y | 36:57 | 80.151 | 80 | 6.4830 | - | y |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 6.1589 | - | n |
| 77 | Unk | CL5-PCB-122 | 1 | 2.54e+05 | 1.42 | y | 37:46 | 12.220 | 12 | 7.4617 | - | y |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 7.3918 | - | n |
| 79 | Unk | CL6-PCB-152 | 0 | * | * | n | NotFnd | * | * | 0.1822 | - | n |
| 80 | Unk | CL6-PCB-150 | 1 | 1.05e+05 | 1.27 | y | 32:20 | 4.962 | 5 | 0.1890 | - | n |
| 81 | Unk | CL6-PCB-136 | 1 | 7.57e+07 | 1.25 | y | 32:42 | 3518.783 | 3519 | 0.1856 | - | n |
| 82 | Unk | CL6-PCB-145 | 0 | * | * | n | NotFnd | * | * | 0.1975 | - | n |
| 83 | Unk | CL6-PCB-148 | 1 | 3.70e+04 | 0.99 | n | 34:37 | 2.342 | 2 | 0.2530 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 1.81e+08 | 1.26 | y | 35:14 | 10503.157 | 10503 | 0.2320 | - | y |
| 85 | Unk | CL6-PCB-144 | 1 | 1.93e+07 | 1.24 | y | 35:49 | 1181.010 | 1181 | 0.2448 | - | n |
| 86 | Unk | CL6-PCB-147/149 | 1 | 2.97e+08 | 1.26 | y | 36:12 | 18351.058 | 18351 | 21.5828 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 1 | 8.58e+06 | 1.22 | y | 36:24 | 613.954 | 614 | 24.9936 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 1 | 1.14e+05 | 1.25 | y | 36:49 | 7.292 | 7 | 22.2511 | - | n |
| 89 | Unk | CL6-PCB-131 | 1 | 1.00e+06 | 1.18 | y | 37:02 | 73.424 | 73 | 25.6399 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 24.7719 | - | n |
| 91 | Unk | CL6-PCB-132 | 1 | 5.52e+07 | 1.26 | y | 37:30 | 4225.200 | 4225 | 26.7234 | - | n |
| 92 | Unk | CL6-PCB-133 | 1 | 1.71e+06 | 1.34 | y | 38:04 | 122.038 | 122 | 24.9698 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 20.0797 | - | n |
| 94 | Unk | CL6-PCB-146 | 1 | 3.74e+07 | 1.27 | y | 38:44 | 2042.174 | 2042 | 19.0555 | - | n |
| 95 | Unk | CL6-PCB-161 | 0 | * | * | n | NotFnd | * | * | 16.5043 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 2.88e+08 | 1.26 | y | 39:23 | 16268.446 | 16268 | 19.7049 | - | n |
| 97 | Unk | CL6-PCB-141 | 1 | 6.28e+07 | 1.24 | y | 39:34 | 4246.411 | 4246 | 23.6179 | - | n |

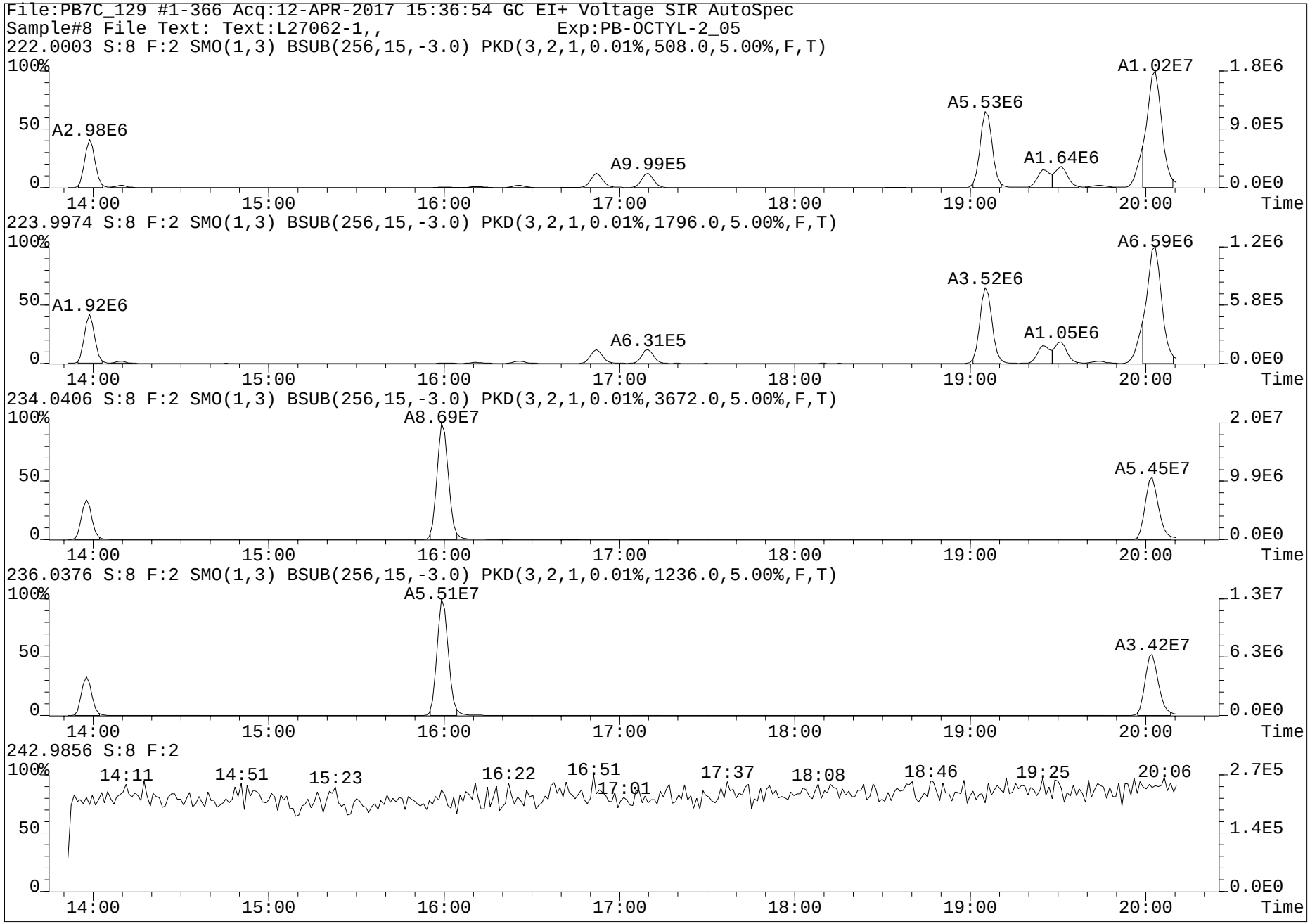
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 1 | 3.63e+06 | 1.28 | y | 39:59 | 283.724 | 284 | 27.2824 | - | n |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 26.2700 | - | n |
| 100 | Unk | CL6-PCB-164 | 1 | 1.48e+07 | 1.29 | y | 40:21 | 754.362 | 754 | 17.8127 | - | n |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 1.75e+08 | 1.26 | y | 40:41 | 10999.048 | 10999 | 21.8906 | - | n |
| 102 | Unk | CL6-PCB-158 | 1 | 1.83e+07 | 1.24 | y | 41:05 | 884.364 | 884 | 16.9171 | - | n |
| 103 | Unk | CL6-PCB-128/166 | 1 | 6.71e+06 | 1.29 | y | 41:59 | 430.873 | 431 | 22.4431 | - | n |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 18.1465 | - | n |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 17.9989 | - | n |
| 106 | Unk | CL7-PCB-179 | 1 | 4.06e+07 | 1.03 | y | 38:17 | 2361.019 | 2361 | 0.2597 | - | n |
| 107 | Unk | CL7-PCB-184 | 0 | * | * | n | NotFnd | * | * | 0.2456 | - | n |
| 108 | Unk | CL7-PCB-176 | 1 | 1.07e+07 | 1.03 | y | 39:13 | 640.607 | 641 | 0.2678 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.2855 | - | n |
| 110 | Unk | CL7-PCB-178 | 1 | 1.08e+07 | 1.04 | y | 41:09 | 913.003 | 913 | 0.3776 | - | n |
| 111 | Unk | CL7-PCB-175 | 1 | 2.12e+06 | 1.06 | y | 41:49 | 175.831 | 176 | 0.3699 | - | n |
| 112 | Unk | CL7-PCB-187 | 1 | 7.28e+07 | 1.04 | y | 42:06 | 5740.407 | 5740 | 0.3521 | - | n |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.3081 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 1 | 3.47e+07 | 1.05 | y | 42:44 | 2770.341 | 2770 | 0.3563 | - | n |
| 115 | Unk | CL7-PCB-174 | 1 | 5.60e+07 | 1.04 | y | 42:58 | 4552.520 | 4553 | 0.3634 | - | n |
| 116 | Unk | CL7-PCB-177 | 1 | 2.61e+07 | 1.04 | y | 43:26 | 1950.894 | 1951 | 0.3338 | - | n |
| 117 | Unk | CL7-PCB-181 | 1 | 6.98e+04 | 0.93 | y | 43:51 | 5.874 | 6 | 0.3763 | - | y |
| 118 | Unk | CL7-PCB-171/173 | 1 | 1.09e+07 | 1.04 | y | 44:06 | 970.380 | 970 | 0.3990 | - | n |
| 119 | Unk | CL7-PCB-172 | 1 | 6.40e+06 | 1.05 | y | 45:49 | 538.798 | 539 | 0.3759 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.3210 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 1 | 1.25e+08 | 1.03 | y | 46:29 | 9548.658 | 9549 | 0.3344 | - | n |
| 122 | Unk | CL7-PCB-191 | 1 | 1.90e+06 | 1.07 | y | 46:51 | 125.698 | 126 | 0.2961 | - | n |
| 123 | Unk | CL7-PCB-170 | 1 | 3.45e+07 | 1.04 | y | 47:47 | 2913.185 | 2913 | 0.3717 | - | n |
| 124 | Unk | CL7-PCB-190 | 1 | 9.29e+06 | 1.06 | y | 48:21 | 627.153 | 627 | 0.3016 | - | n |
| 125 | Unk | CL8-PCB-201 | 1 | 2.49e+06 | 0.93 | y | 44:33 | 167.787 | 168 | 0.2472 | - | n |
| 126 | Unk | CL8-PCB-204 | 1 | 2.78e+03 | 0.92 | y | 45:15 | 0.193 | 0 | 0.2556 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 1 | 3.99e+06 | 0.87 | y | 45:35 | 228.326 | 228 | 0.2100 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 1 | 1.28e+07 | 0.89 | y | 48:33 | 1261.711 | 1262 | 0.3620 | - | n |
| 129 | Unk | CL8-PCB-196 | 1 | 6.27e+06 | 0.90 | y | 49:14 | 546.785 | 547 | 0.3204 | - | n |
| 130 | Unk | CL8-PCB-203 | 1 | 7.69e+06 | 0.93 | y | 49:27 | 669.389 | 669 | 0.3194 | - | n |
| 131 | Unk | CL8-PCB-195 | 1 | 4.40e+06 | 0.88 | y | 50:50 | 372.903 | 373 | 0.9010 | - | n |
| 132 | Unk | CL8-PCB-194 | 1 | 1.33e+07 | 0.93 | y | 53:17 | 1201.163 | 1201 | 0.9636 | - | n |
| 133 | Unk | CL9-PCB-207 | 1 | 2.45e+05 | 0.72 | y | 51:33 | 20.415 | 20 | 0.4160 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 6.08e+07 | 3.21 | y | 11:29 | 896.507 | 0 | 2.1588 | 44.4 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 6.18e+07 | 3.13 | y | 13:43 | 946.683 | 0 | 2.2410 | 46.9 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 4.35e+07 | 1.61 | y | 13:58 | 1007.425 | 0 | 1.2384 | 49.9 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 8.87e+07 | 1.59 | y | 20:02 | 1247.589 | 0 | 0.7513 | 61.8 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 4.14e+07 | 1.05 | y | 17:08 | 1147.575 | 0 | 3.3779 | 56.9 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 7.47e+07 | 1.06 | y | 27:20 | 1392.693 | 0 | 3.7999 | 69.0 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 6.03e+07 | 0.78 | y | 20:18 | 1393.208 | 0 | 0.3216 | 69.0 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 5.83e+07 | 0.79 | y | 34:23 | 1424.540 | 0 | 0.3999 | 70.6 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 5.88e+07 | 0.78 | y | 34:58 | 1436.144 | 0 | 0.3998 | 71.2 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 4.57e+07 | 1.59 | y | 26:01 | 1296.456 | 0 | 0.0976 | 64.3 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 4.25e+07 | 1.59 | y | 37:04 | 1301.095 | 0 | 2.5402 | 64.5 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 4.22e+07 | 1.58 | y | 37:24 | 1323.367 | 0 | 2.5967 | 65.6 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 3.98e+07 | 1.62 | y | 37:57 | 1272.833 | 0 | 2.6529 | 63.1 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 4.38e+07 | 1.60 | y | 38:38 | 1388.404 | 0 | 2.6290 | 68.8 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 3.46e+07 | 1.57 | y | 41:52 | 1261.507 | 0 | 3.0206 | 62.5 | n |

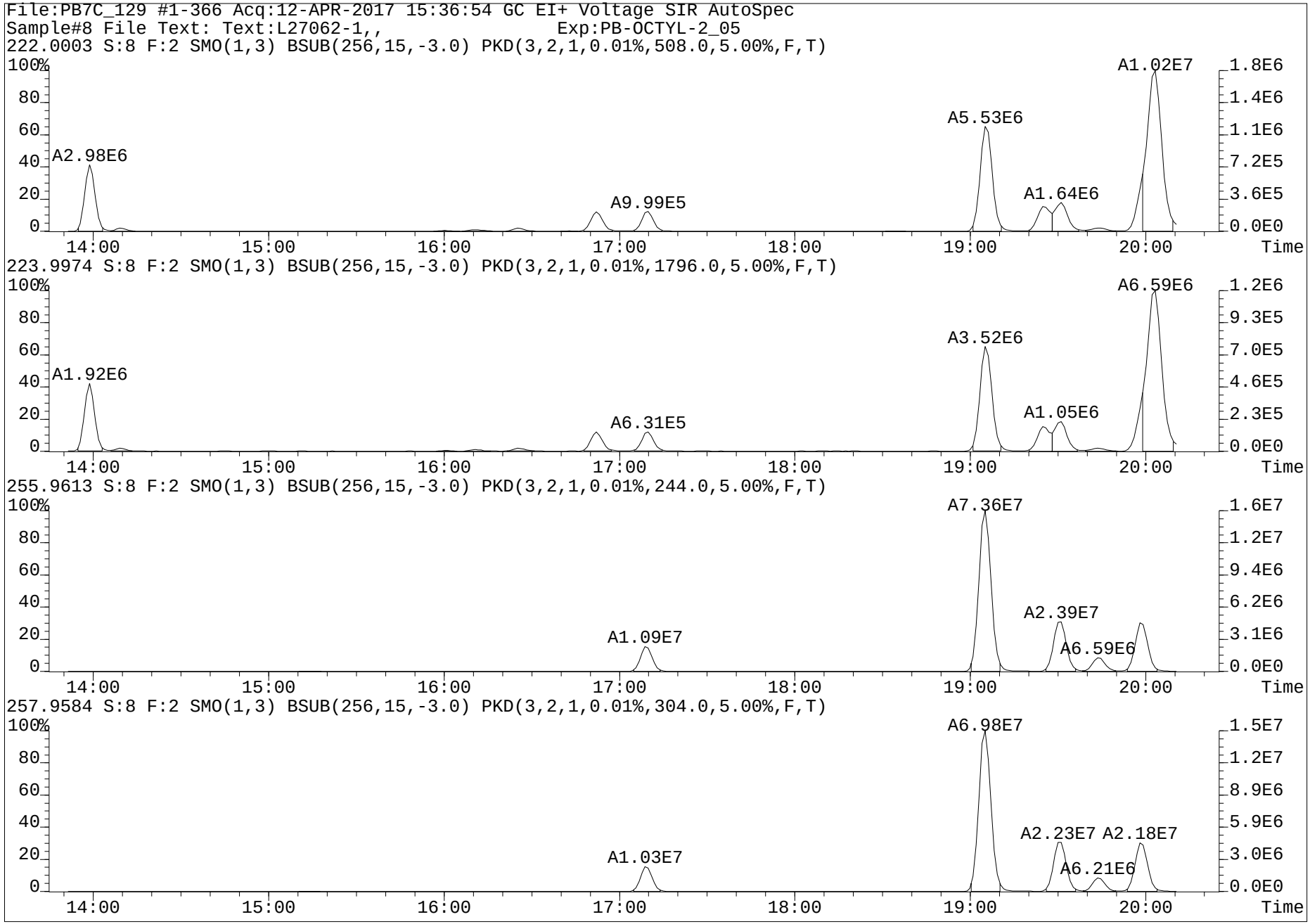
www.axysanalytical.com

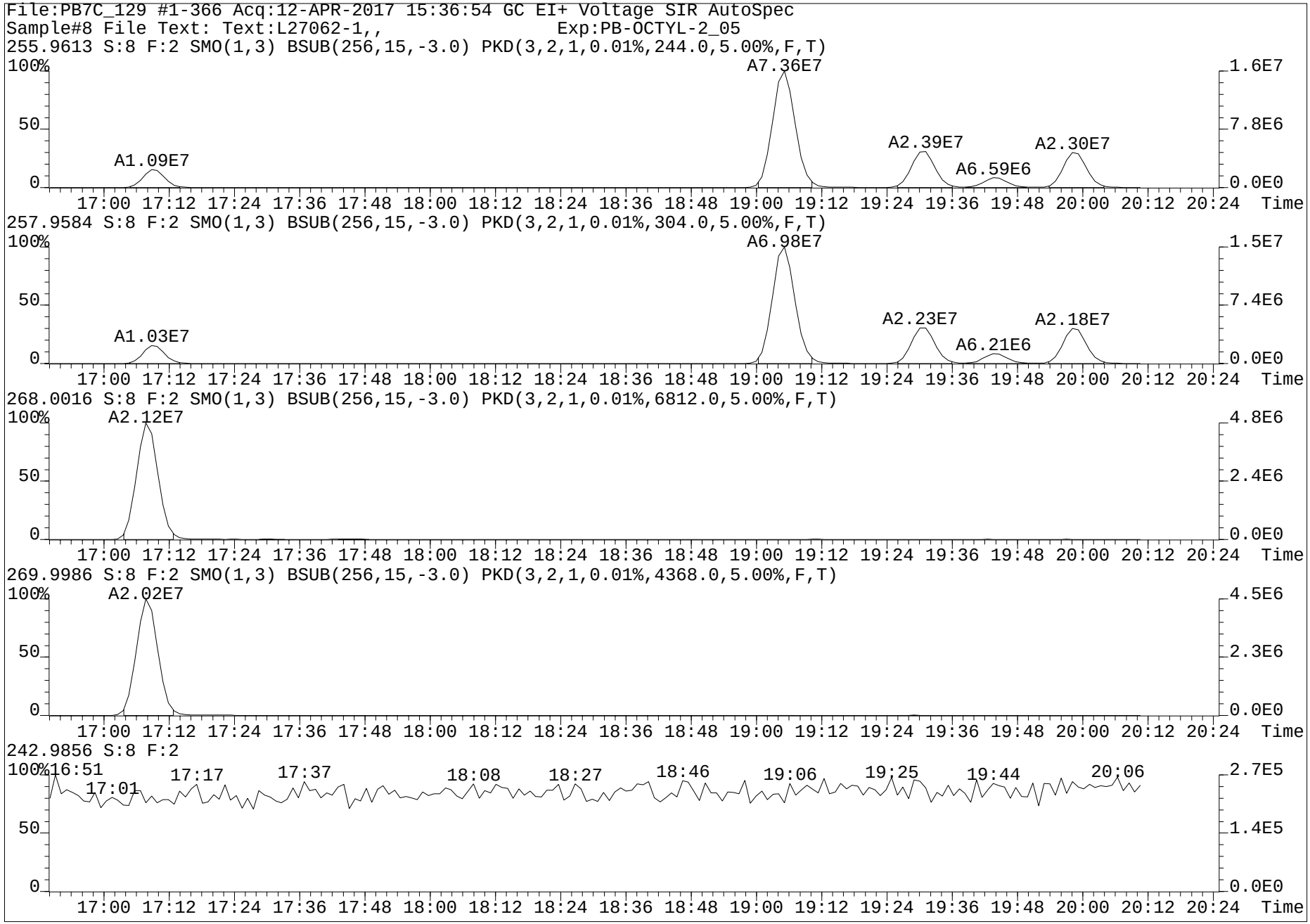


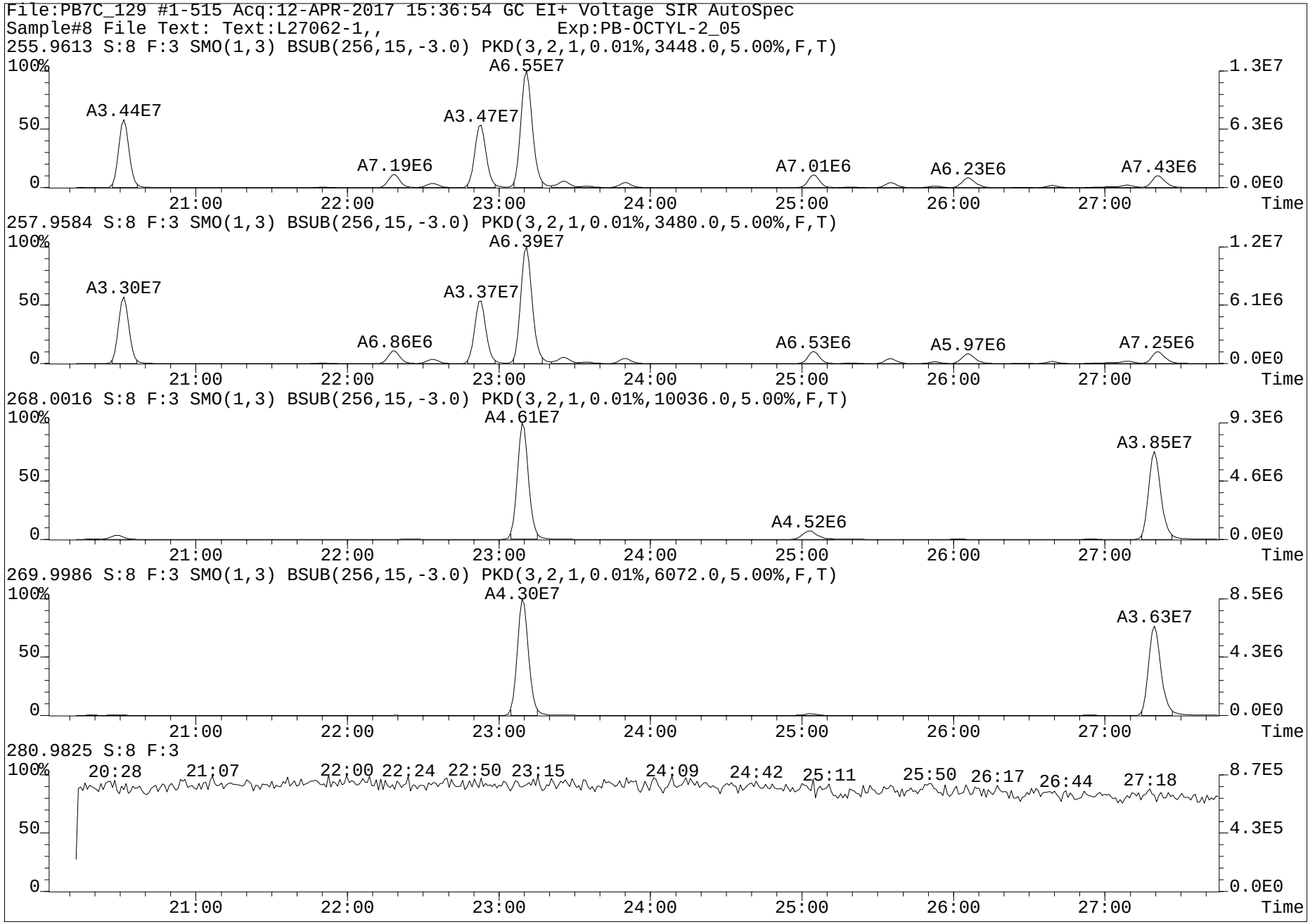
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 4.37e+07 | 1.25 | y | 31:57 | 1592.995 | 0 | 0.1197 | 79.0 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 2.98e+07 | 1.28 | y | 43:49 | 1433.294 | 0 | 0.1983 | 71.0 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 6.32e+07 | 1.27 | y | 45:01 | 3063.174 | 0 | 0.1999 | 75.9 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 3.22e+07 | 1.25 | y | 48:26 | 1577.767 | 0 | 0.2019 | 78.2 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 3.54e+07 | 1.07 | y | 37:56 | 1352.159 | 0 | 0.1937 | 67.0 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 2.72e+07 | 1.05 | y | 46:28 | 1530.757 | 0 | 0.2851 | 75.9 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 2.21e+07 | 1.05 | y | 47:47 | 1525.361 | 0 | 0.3499 | 75.6 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 2.81e+07 | 0.90 | y | 43:33 | 1255.268 | 0 | 0.1867 | 62.2 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 2.89e+07 | 0.90 | y | 53:46 | 1467.586 | 0 | 0.5041 | 72.7 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 2.31e+07 | 0.81 | y | 50:33 | 1210.545 | 0 | 0.2724 | 60.0 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 1.96e+07 | 0.77 | y | 55:35 | 1419.848 | 0 | 0.3753 | 70.4 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.42e+08 | 1.58 | y | 15:59 | 128.860 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 6.47e+07 | 0.78 | y | 25:03 | 112.290 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 5.09e+07 | 1.59 | y | 32:11 | 109.287 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.59e+07 | 1.25 | y | 40:39 | 92.125 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 2.81e+07 | 0.92 | y | 53:16 | 97.697 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 8.91e+07 | 1.07 | y | 23:09 | 1577.122 | 0 | 3.6089 | 78.2 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 4.54e+07 | 1.60 | y | 35:01 | 1441.891 | 0 | 0.1558 | 71.5 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 2.47e+07 | 1.06 | y | 41:08 | 1566.124 | 0 | 0.3028 | 77.6 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 6.03e+07 | 0.78 | y | 20:18 | 1393.208 | 0 | 0.3216 | 69.0 | n |
| 169 | Unk | CL7-PCB-189 | 1 | 2.00e+06 | 0.99 | y | 51:06 | 115.926 | 0 | 0.9451 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 3.38e+07 | 1.05 | y | 51:04 | 1410.769 | 0 | 1.3300 | 69.9 | n |
| 171 | Unk | CL10-PCB-209 | 1 | 3.66e+04 | 0.97 | n | 57:16 | 2.968 | 0 | 0.2724 | - | y |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 2.39e+07 | 1.21 | y | 57:15 | 1417.050 | 0 | 0.2516 | 70.2 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

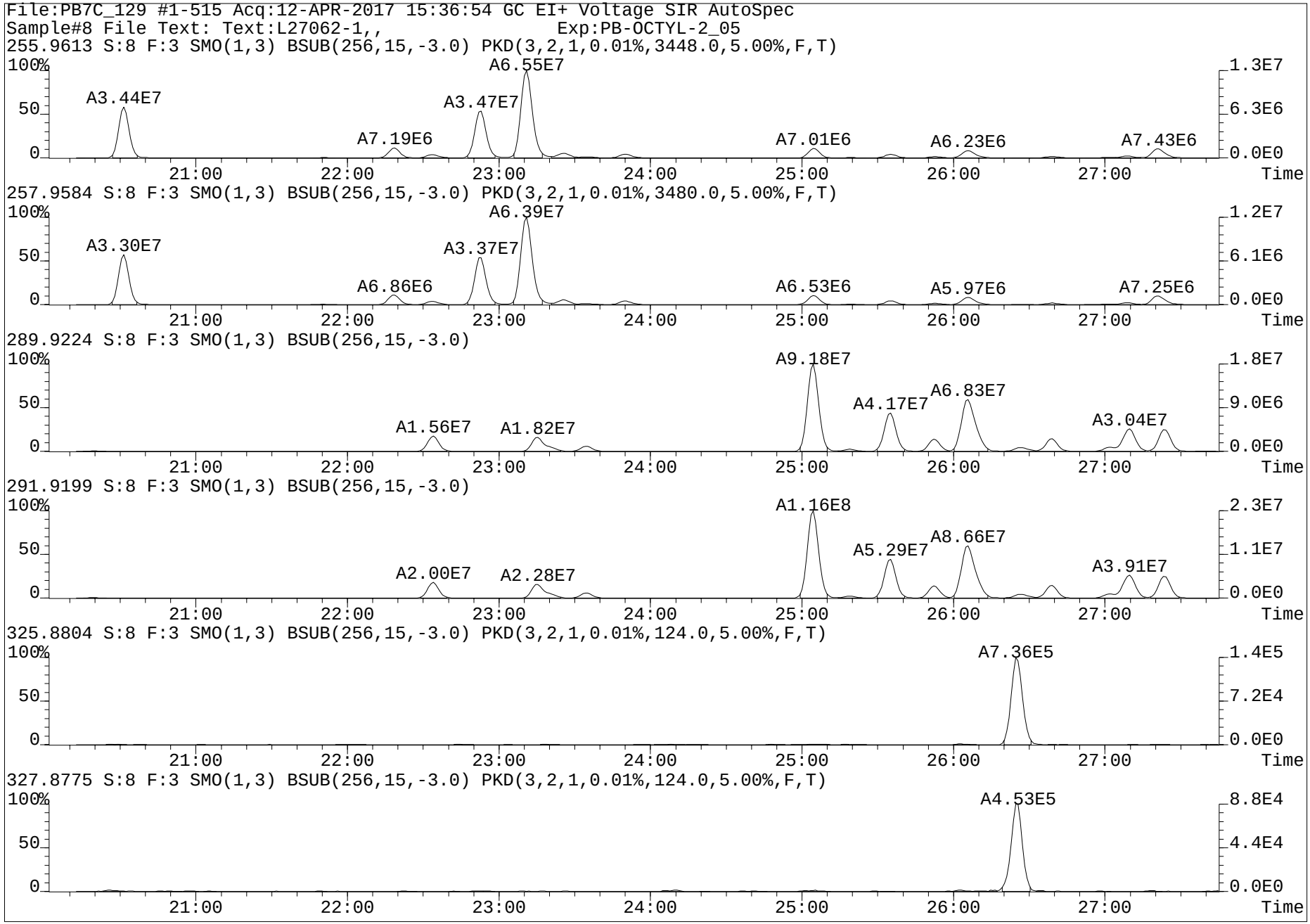

File:PB7C_129 #1-184 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
188.0393 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,424.0,5.00%,F,T)
A9.28E4
A4.93E4
A4.63E4
A6.99E4
190.0363 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,360.0,5.00%,F,T)
A2.98E4
A2.33E3
A1.73E4
200.0795 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1160.0,5.00%,F,T)
A4.63E7
A4.68E7
202.0766 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12268.0,5.00%,F,T)
A1.44E7
A1.50E7
218.9856 S:8
11:10
11:23
11:36
11:48
12:27
12:45
12:59
13:24
13:45
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
2.7E4
1.4E4
0.0E0
8.4E3
4.2E3
1.4E7
6.8E6
4.3E6
2.2E6
1.1E6
5.4E5

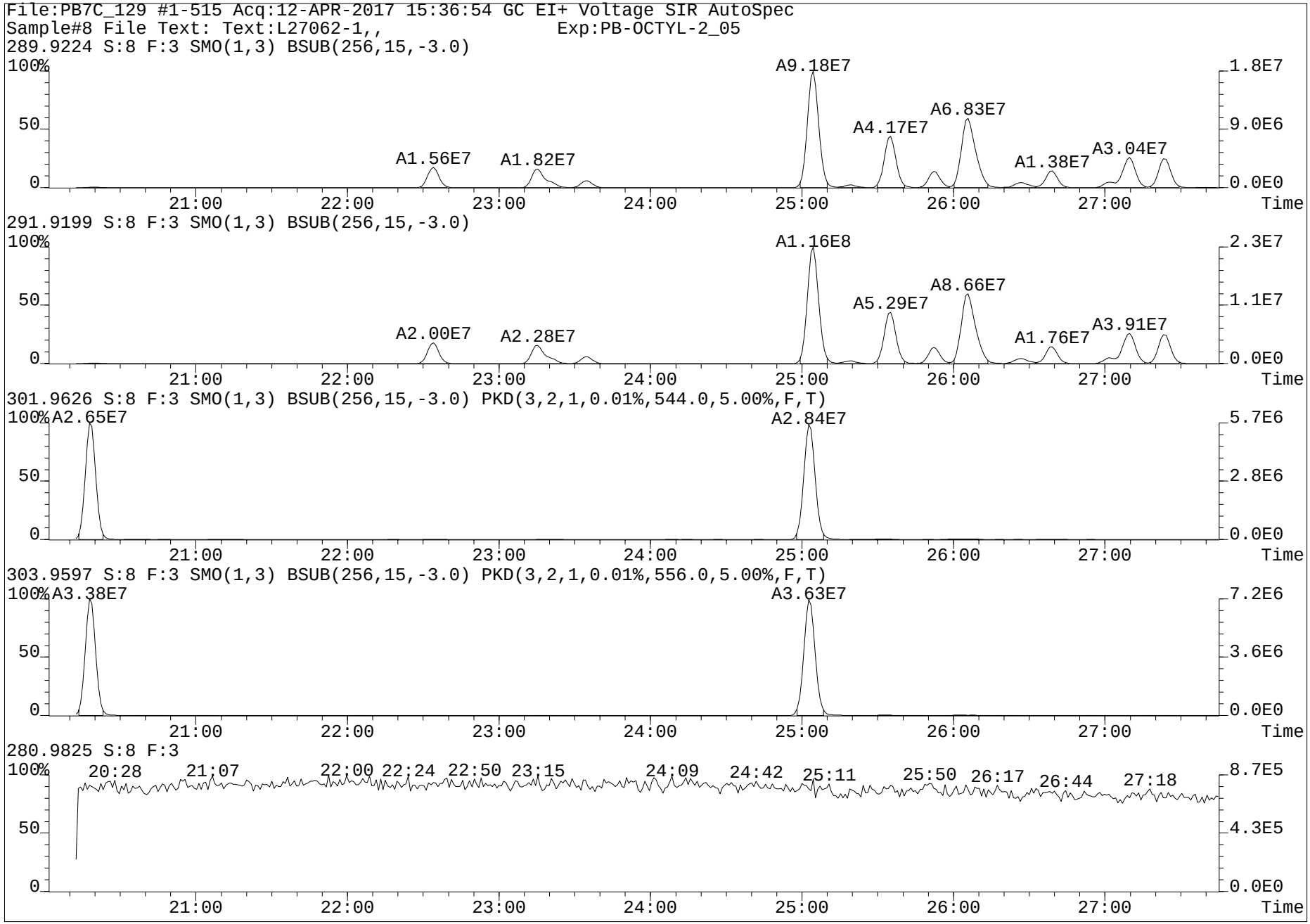

File:PB7C_129 #1-366 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
222.0003 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,508.0,5.00%,F,T)
A2.98E6
A9.99E5
A5.53E6
A1.64E6
A1.02E7
223.9974 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1796.0,5.00%,F,T)
A1.92E6
A6.31E5
A3.52E6
A1.05E6
A6.59E6
234.0406 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3672.0,5.00%,F,T)
A8.69E7
A5.45E7
236.0376 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1236.0,5.00%,F,T)
A5.51E7
A3.42E7
242.9856 S:8 F:2
14:11
14:51
15:23
16:22
16:51
17:01
17:37
18:08
18:46
19:25
20:06
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
1.8E6
9.0E5
0.0E0
1.2E6
5.8E5
2.0E7
9.9E6
1.3E7
6.3E6
2.7E5
1.4E5

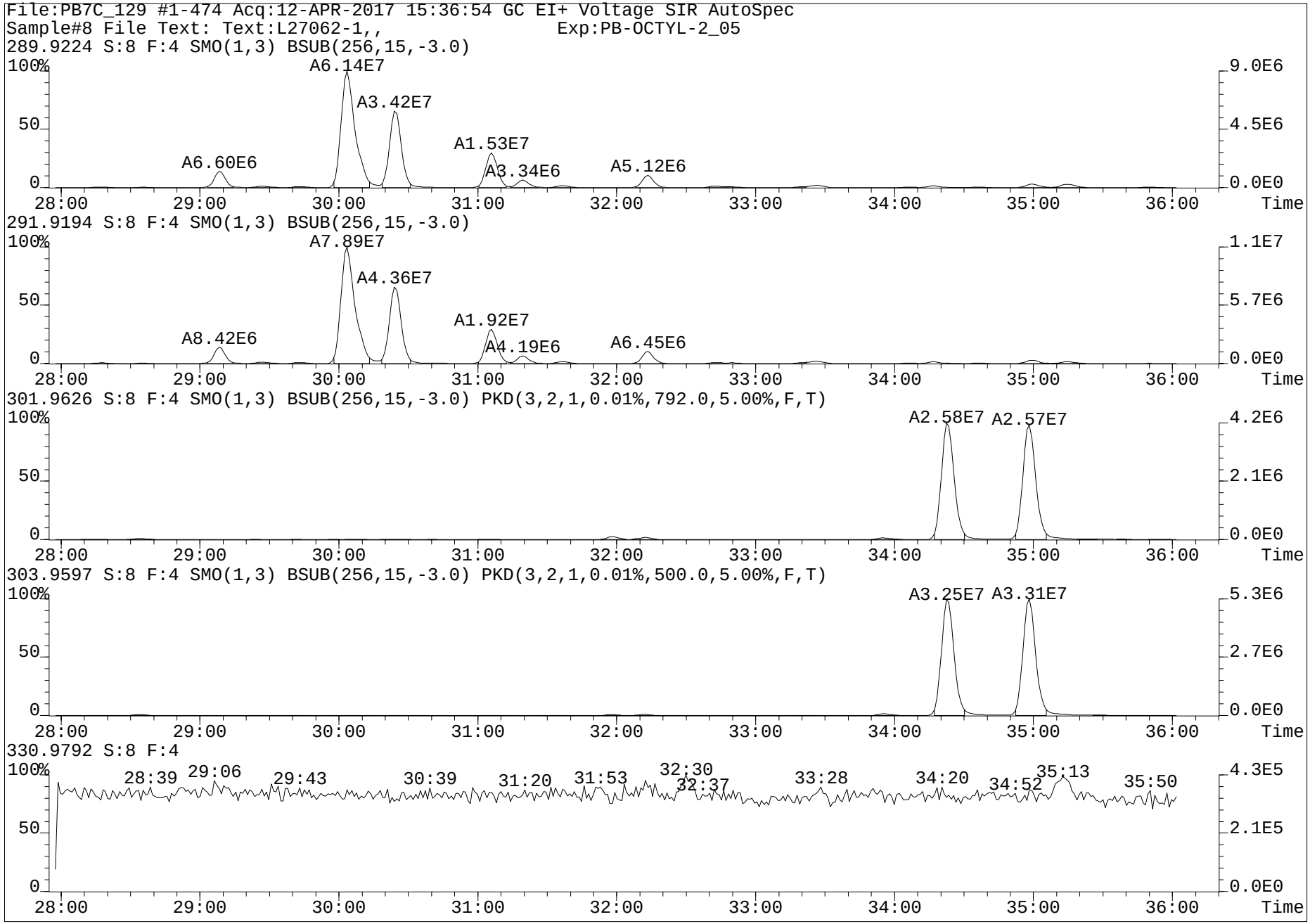

File:PB7C_129 #1-366 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
222.0003 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,508.0,5.00%,F,T)
A2.98E6
A9.99E5
A5.53E6
A1.64E6
A1.02E7
223.9974 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1796.0,5.00%,F,T)
A1.92E6
A6.31E5
A3.52E6
A1.05E6
A6.59E6
255.9613 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,244.0,5.00%,F,T)
A1.09E7
A7.36E7
A2.39E7
A6.59E6
257.9584 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.03E7
A6.98E7
A2.23E7
A2.18E7
A6.21E6
Time

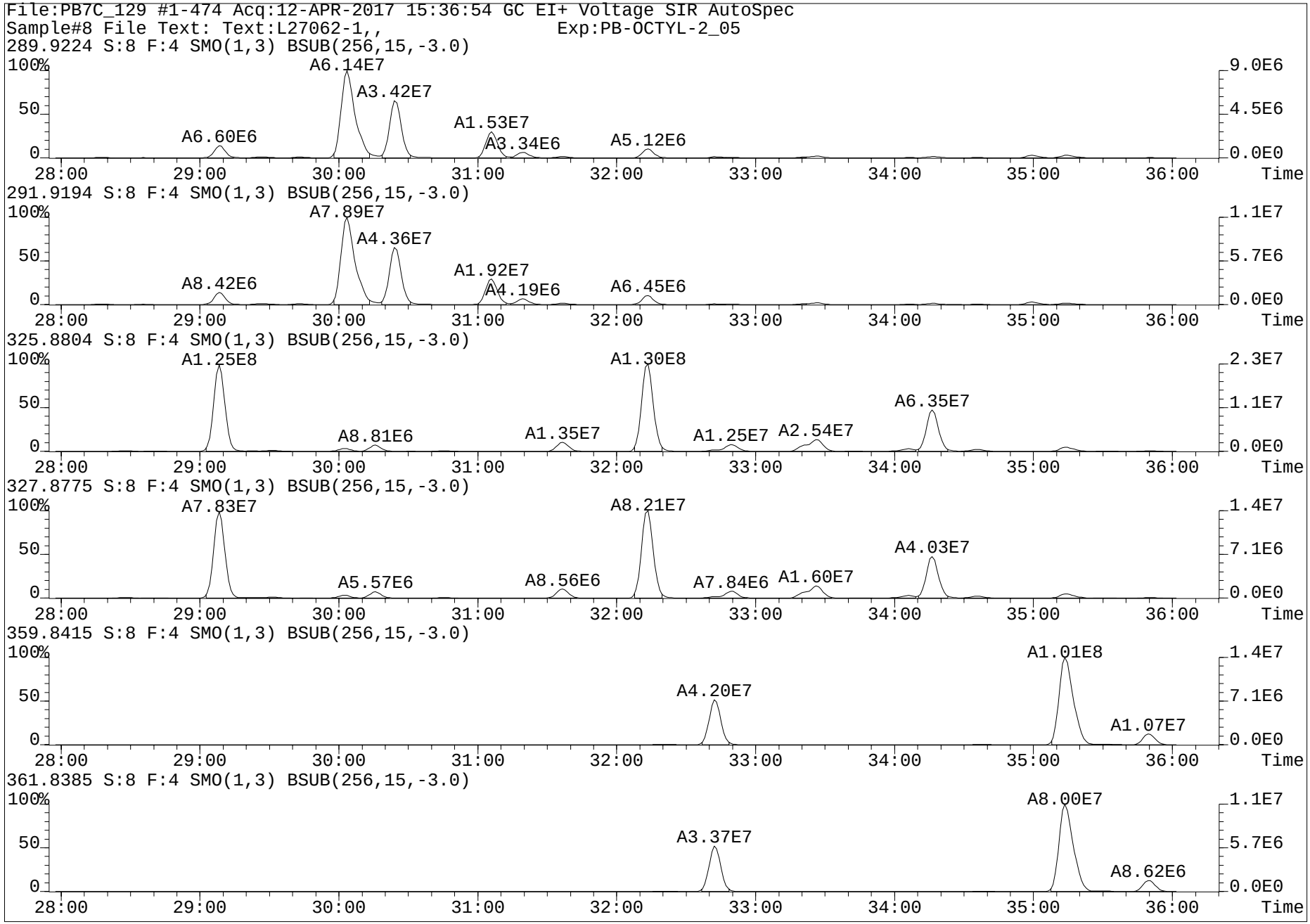

File:PB7C_129 #1-366 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
255.9613 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,244.0,5.00%,F,T)
A1.09E7
A7.36E7
A2.39E7
A6.59E6
A2.30E7
257.9584 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.03E7
A6.98E7
A2.23E7
A6.21E6
A2.18E7
268.0016 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6812.0,5.00%,F,T)
A2.12E7
269.9986 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4368.0,5.00%,F,T)
A2.02E7
242.9856 S:8 F:2
16:51
17:01
17:17
17:37
18:08
18:27
18:46
19:06
19:25
19:44
20:06
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
1.6E7
7.8E6
0.0E0
1.5E7
7.4E6
0.0E0
4.8E6
2.4E6
0.0E0
4.5E6
2.3E6
0.0E0
2.7E5
1.4E5
0.0E0

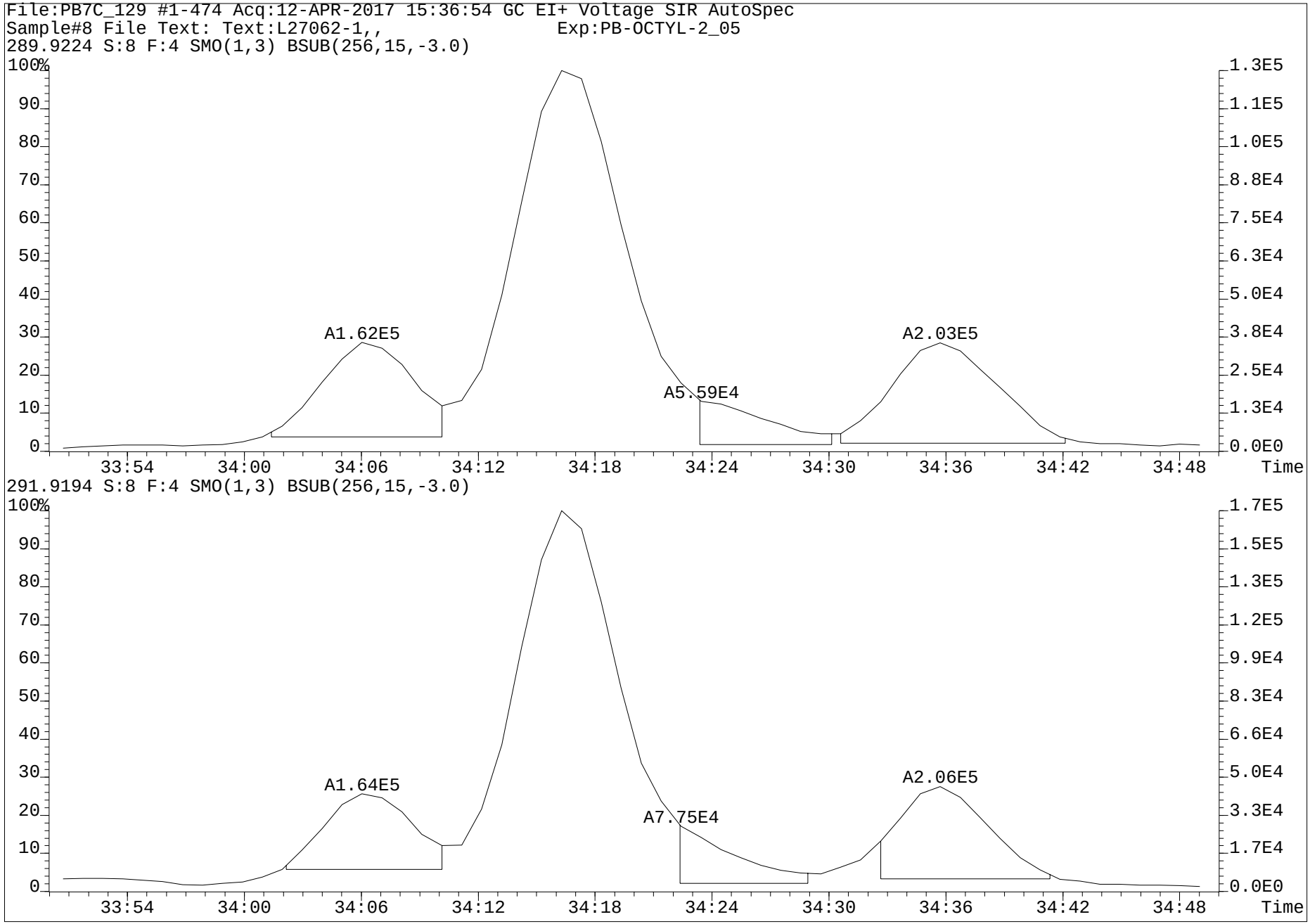

File:PB7C_129 #1-515 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
255.9613 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3448.0,5.00%,F,T)
A6.55E7
A3.44E7
A3.47E7
A7.19E6
A7.01E6
A6.23E6
A7.43E6
257.9584 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3480.0,5.00%,F,T)
A6.39E7
A3.30E7
A3.37E7
A6.86E6
A6.53E6
A5.97E6
A7.25E6
268.0016 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10036.0,5.00%,F,T)
A4.61E7
A3.85E7
A4.52E6
269.9986 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6072.0,5.00%,F,T)
A4.30E7
A3.63E7
280.9825 S:8 F:3
20:28 21:07 22:00 22:24 22:50 23:15 24:09 24:42 25:11 25:50 26:17 26:44 27:18
100%
50
0
1.3E7
6.3E6
0.0E0
1.2E7
6.1E6
9.3E6
4.6E6
8.5E6
4.3E6
8.7E5
4.3E5
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

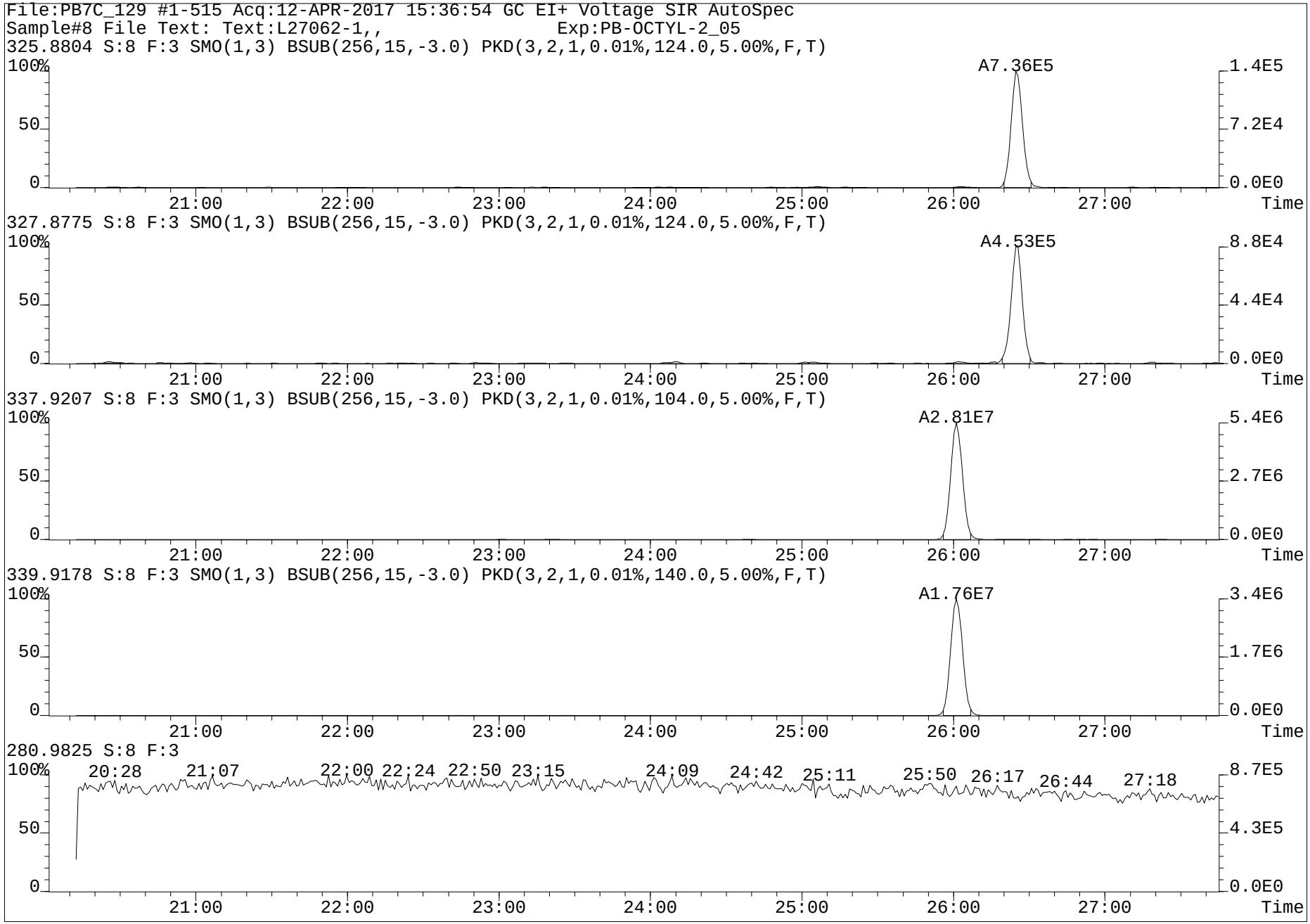

File:PB7C_129 #1-515 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
255.9613 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3448.0,5.00%,F,T)
A3.44E7
A7.19E6
A3.47E7
A6.55E7
A7.01E6
A6.23E6
A7.43E6
257.9584 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3480.0,5.00%,F,T)
A3.30E7
A6.86E6
A3.37E7
A6.39E7
A6.53E6
A5.97E6
A7.25E6
289.9224 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.56E7
A1.82E7
A9.18E7
A4.17E7
A6.83E7
A3.04E7
291.9199 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.00E7
A2.28E7
A1.16E8
A5.29E7
A8.66E7
A3.91E7
325.8804 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A7.36E5
327.8775 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A4.53E5
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.3E7
6.3E6
0.0E0
1.2E7
6.1E6
1.8E7
9.0E6
2.3E7
1.1E7
1.4E5
7.2E4
8.8E4
4.4E4

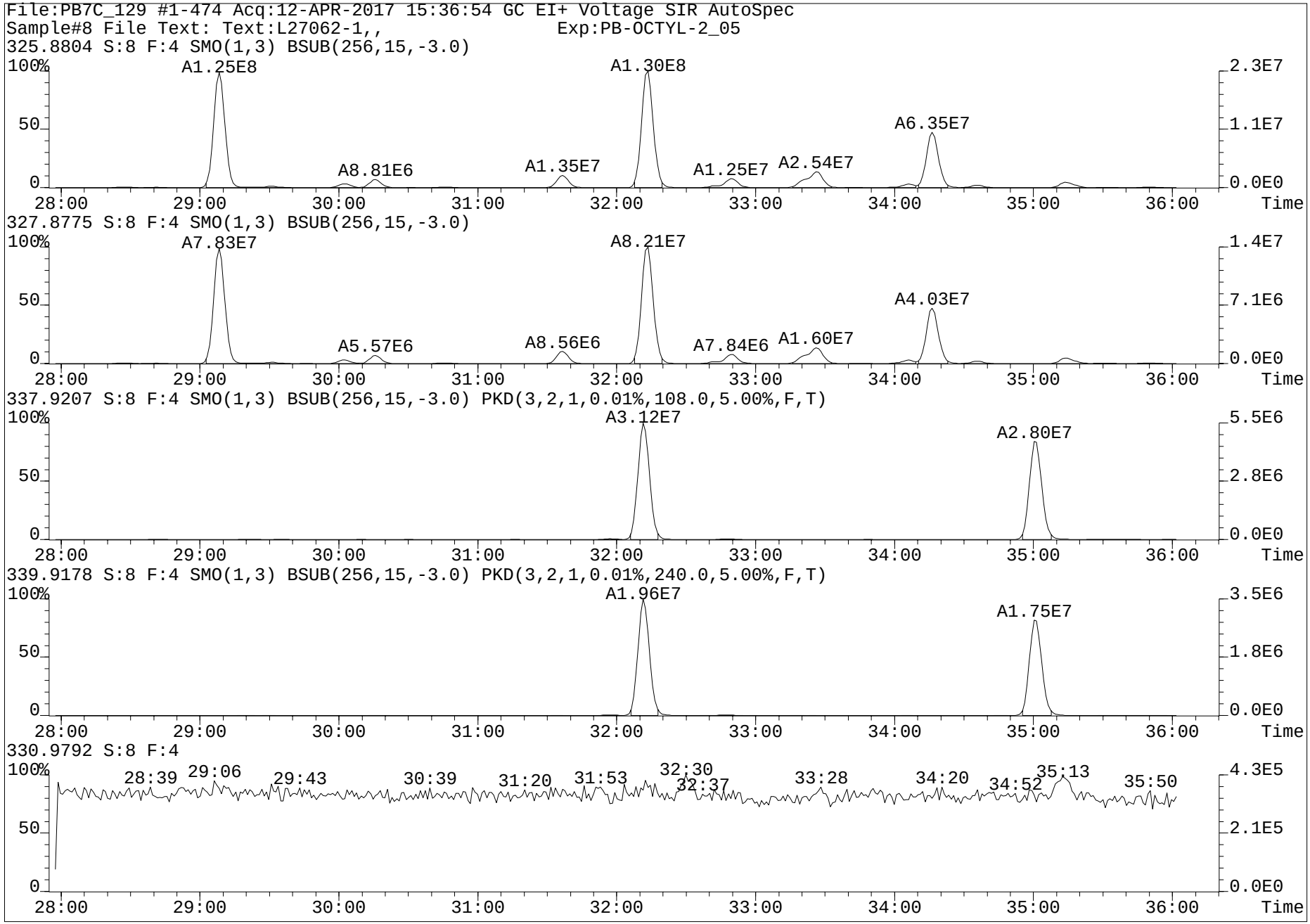

File:PB7C_129 #1-515 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
289.9224 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.56E7
A1.82E7
A9.18E7
A4.17E7
A6.83E7
A1.38E7
A3.04E7
291.9199 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.00E7
A2.28E7
A1.16E8
A5.29E7
A8.66E7
A1.76E7
A3.91E7
301.9626 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,544.0,5.00%,F,T)
A2.65E7
A2.84E7
303.9597 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,556.0,5.00%,F,T)
A3.38E7
A3.63E7
280.9825 S:8 F:3
20:28
21:07
22:00
22:24
22:50
23:15
24:09
24:42
25:11
25:50
26:17
26:44
27:18
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.8E7
9.0E6
0.0E0
2.3E7
1.1E7
5.7E6
2.8E6
7.2E6
3.6E6
8.7E5
4.3E5

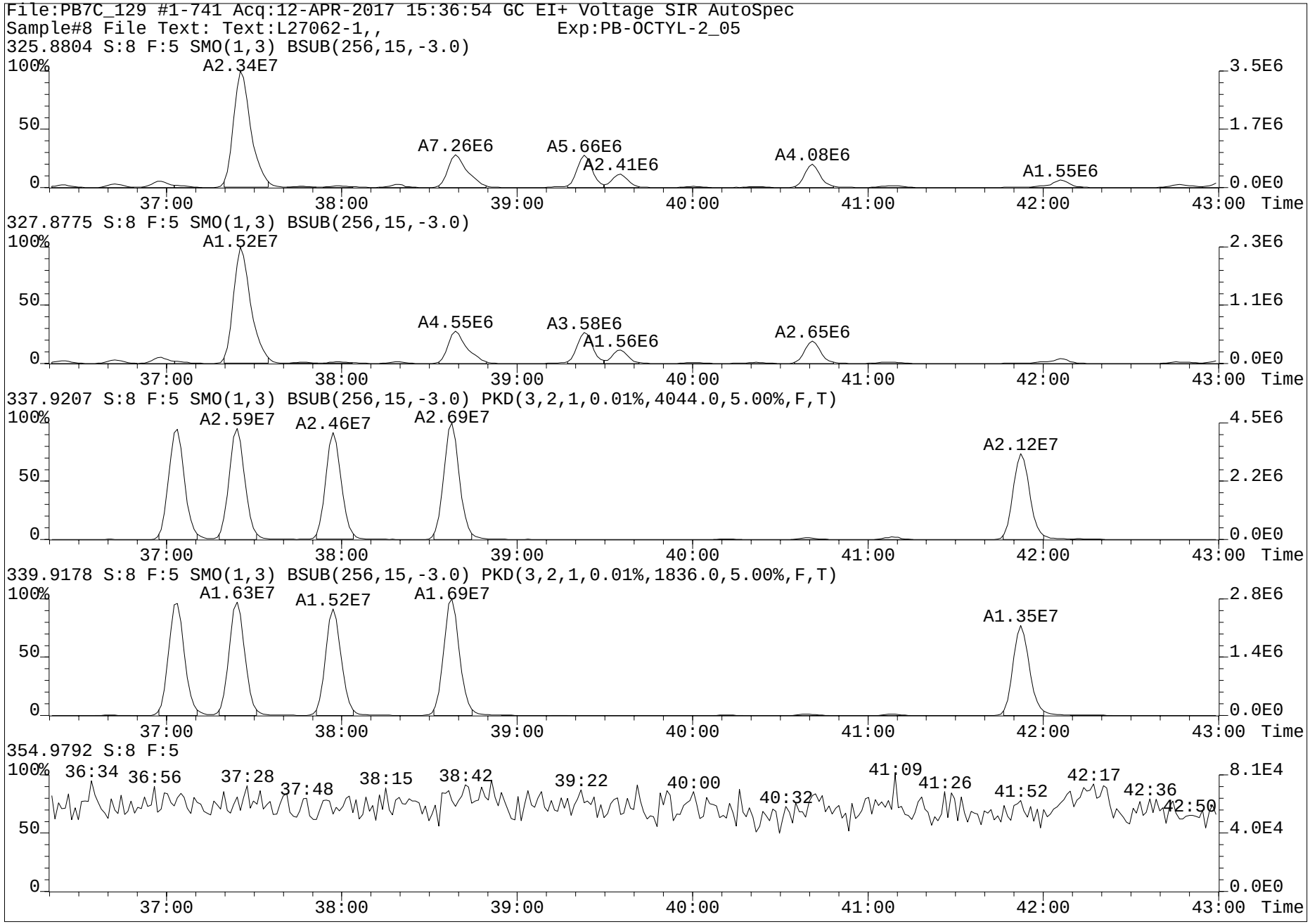

File:PB7C_129 #1-474 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
289.9224 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A6.14E7
A3.42E7
A1.53E7
A6.60E6
A3.34E6
A5.12E6
291.9194 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A7.89E7
A4.36E7
A1.92E7
A8.42E6
A4.19E6
A6.45E6
301.9626 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,792.0,5.00%,F,T)
A2.58E7
A2.57E7
303.9597 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,500.0,5.00%,F,T)
A3.25E7
A3.31E7
330.9792 S:8 F:4
28:39
29:06
29:43
30:39
31:20
31:53
32:30
32:37
33:28
34:20
34:52
35:13
35:50
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
9.0E6
4.5E6
0.0E0
1.1E7
5.7E6
4.2E6
2.1E6
5.3E6
2.7E6
4.3E5
2.1E5

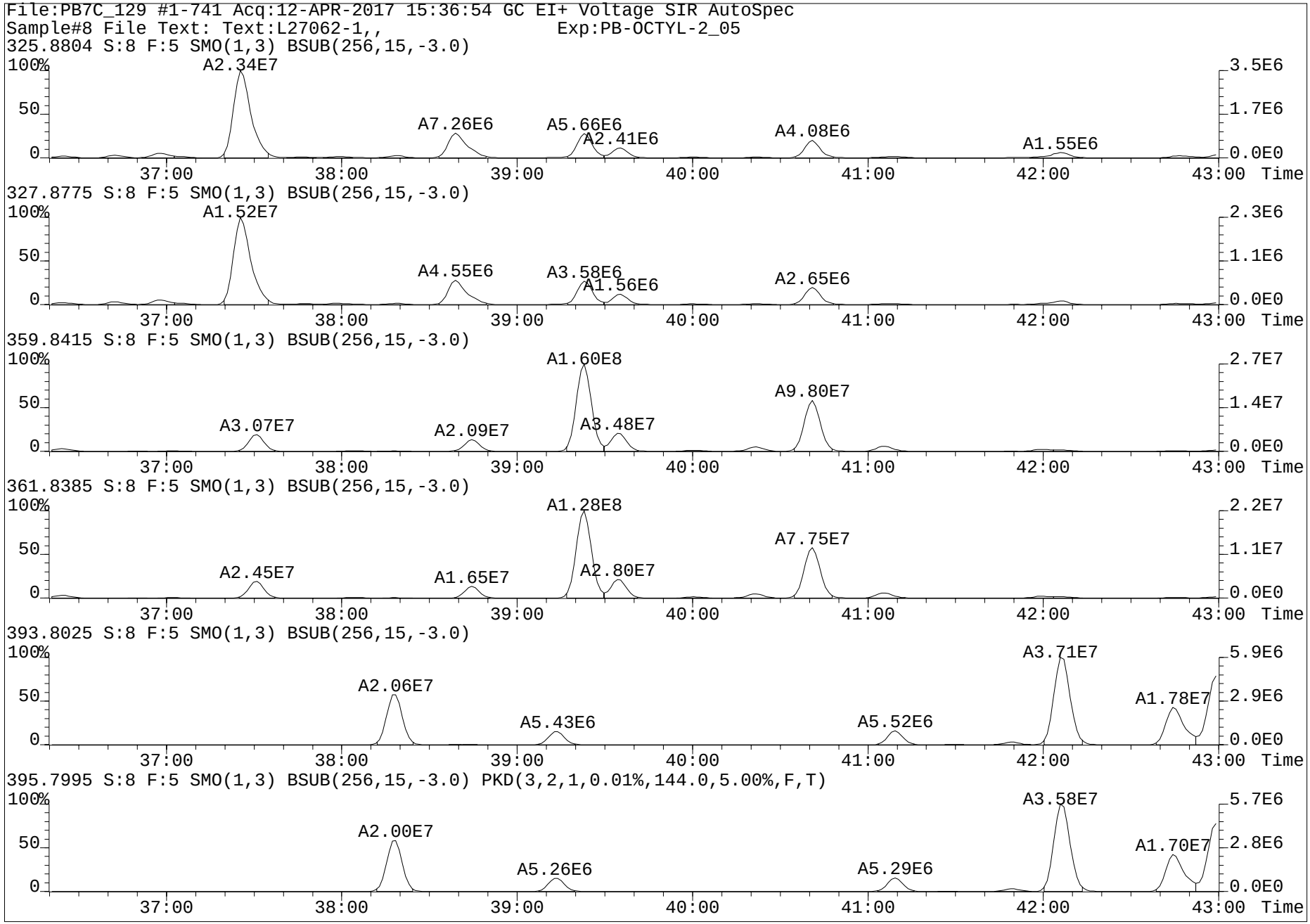

File:PB7C_129 #1-474 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
289.9224 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A6.14E7
A3.42E7
A1.53E7
A6.60E6
A3.34E6
A5.12E6
291.9194 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A7.89E7
A4.36E7
A1.92E7
A8.42E6
A4.19E6
A6.45E6
325.8804 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.25E8
A1.30E8
A6.35E7
A8.81E6
A1.35E7
A1.25E7
A2.54E7
327.8775 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A7.83E7
A8.21E7
A4.03E7
A5.57E6
A8.56E6
A7.84E6
A1.60E7
359.8415 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.01E8
A4.20E7
A1.07E7
361.8385 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A8.00E7
A3.37E7
A8.62E6
100%
50
0
9.0E6
4.5E6
0.0E0
1.1E7
5.7E6
2.3E7
1.1E7
1.4E7
7.1E6
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time

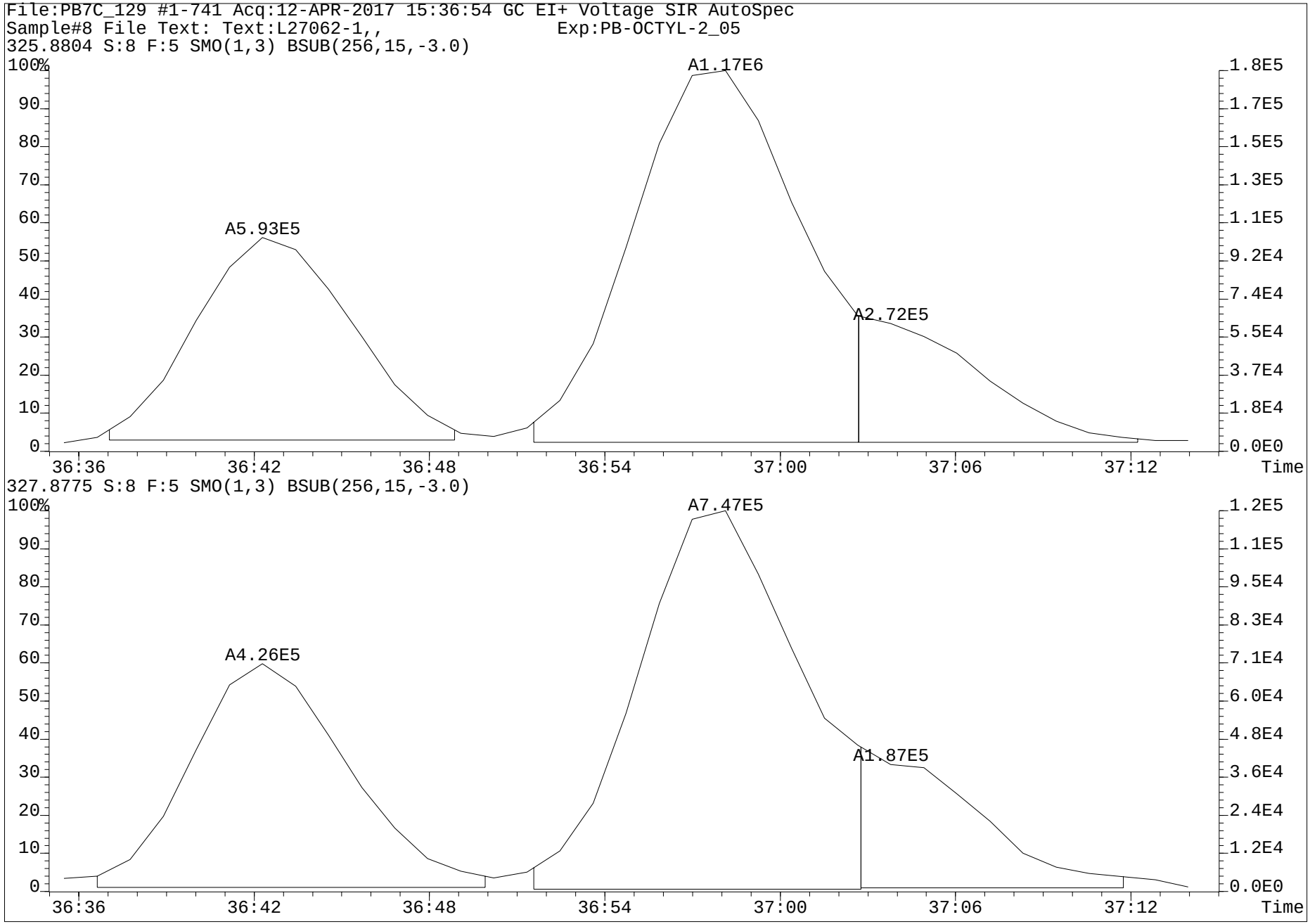

File:PB7C_129 #1-474 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
289.9224 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
1.3E5
1.1E5
1.0E5
8.8E4
7.5E4
6.3E4
5.0E4
3.8E4
2.5E4
1.3E4
0.0E0
A1.62E5
A5.59E4
A2.03E5
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time
291.9194 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
1.7E5
1.5E5
1.3E5
1.2E5
9.9E4
8.3E4
6.6E4
5.0E4
3.3E4
1.7E4
0.0E0
A1.64E5
A7.75E4
A2.06E5
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time

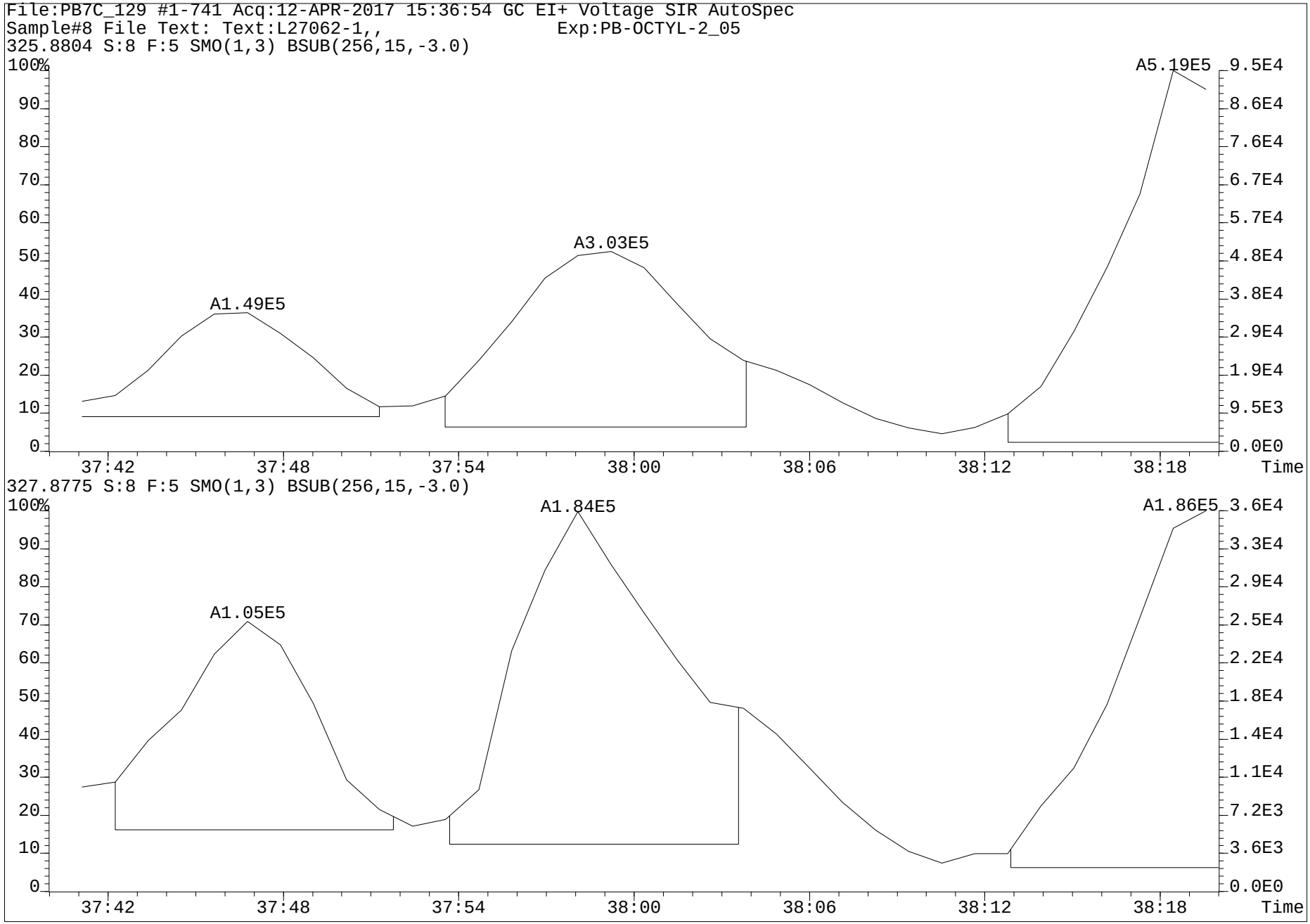

File:PB7C_129 #1-515 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A7.36E5
1.4E5
7.2E4
0.0E0
327.8775 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A4.53E5
8.8E4
4.4E4
0.0E0
337.9207 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A2.81E7
5.4E6
2.7E6
0.0E0
339.9178 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A1.76E7
3.4E6
1.7E6
0.0E0
280.9825 S:8 F:3
20:28 21:07 22:00 22:24 22:50 23:15 24:09 24:42 25:11 25:50 26:17 26:44 27:18
8.7E5
4.3E5
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

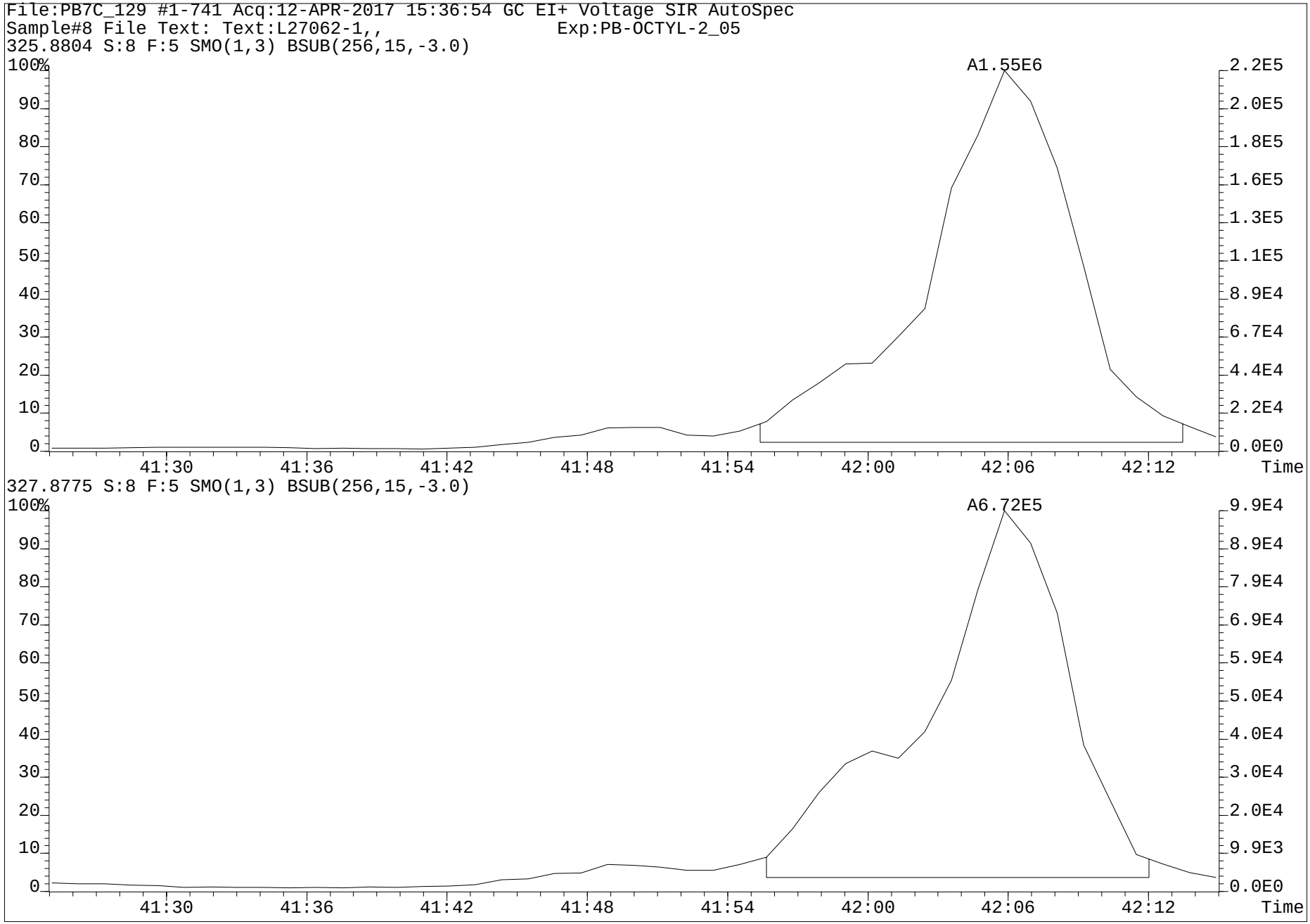

File:PB7C_129 #1-474 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.25E8
A8.81E6
A1.35E7
A1.30E8
A1.25E7
A2.54E7
A6.35E7
327.8775 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A7.83E7
A5.57E6
A8.56E6
A8.21E7
A7.84E6
A1.60E7
A4.03E7
337.9207 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A3.12E7
A2.80E7
339.9178 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,240.0,5.00%,F,T)
A1.96E7
A1.75E7
330.9792 S:8 F:4
28:39
29:06
29:43
30:39
31:20
31:53
32:30
32:37
33:28
34:20
34:52
35:13
35:50
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
2.3E7
1.1E7
0.0E0
1.4E7
7.1E6
5.5E6
2.8E6
3.5E6
1.8E6
4.3E5
2.1E5

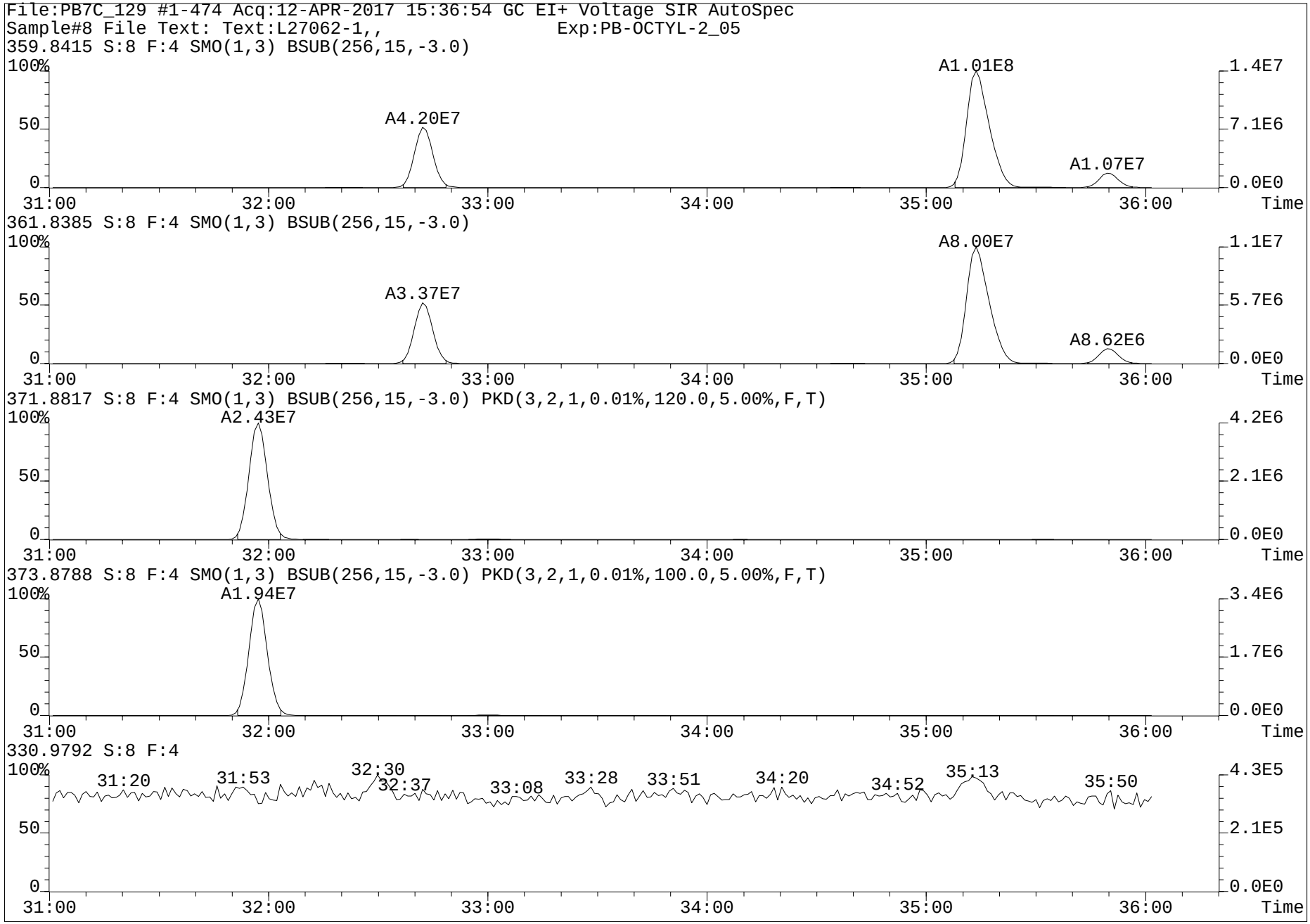

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.34E7
A7.26E6
A5.66E6
A2.41E6
A4.08E6
A1.55E6
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.52E7
A4.55E6
A3.58E6
A1.56E6
A2.65E6
337.9207 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4044.0,5.00%,F,T)
A2.59E7
A2.46E7
A2.69E7
A2.12E7
339.9178 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1836.0,5.00%,F,T)
A1.63E7
A1.52E7
A1.69E7
A1.35E7
354.9792 S:8 F:5
36:34
36:56
37:28
37:48
38:15
38:42
39:22
40:00
40:32
41:09
41:26
41:52
42:17
42:36
42:50
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
3.5E6
1.7E6
0.0E0
2.3E6
1.1E6
0.0E0
4.5E6
2.2E6
0.0E0
2.8E6
1.4E6
0.0E0
8.1E4
4.0E4
0.0E0

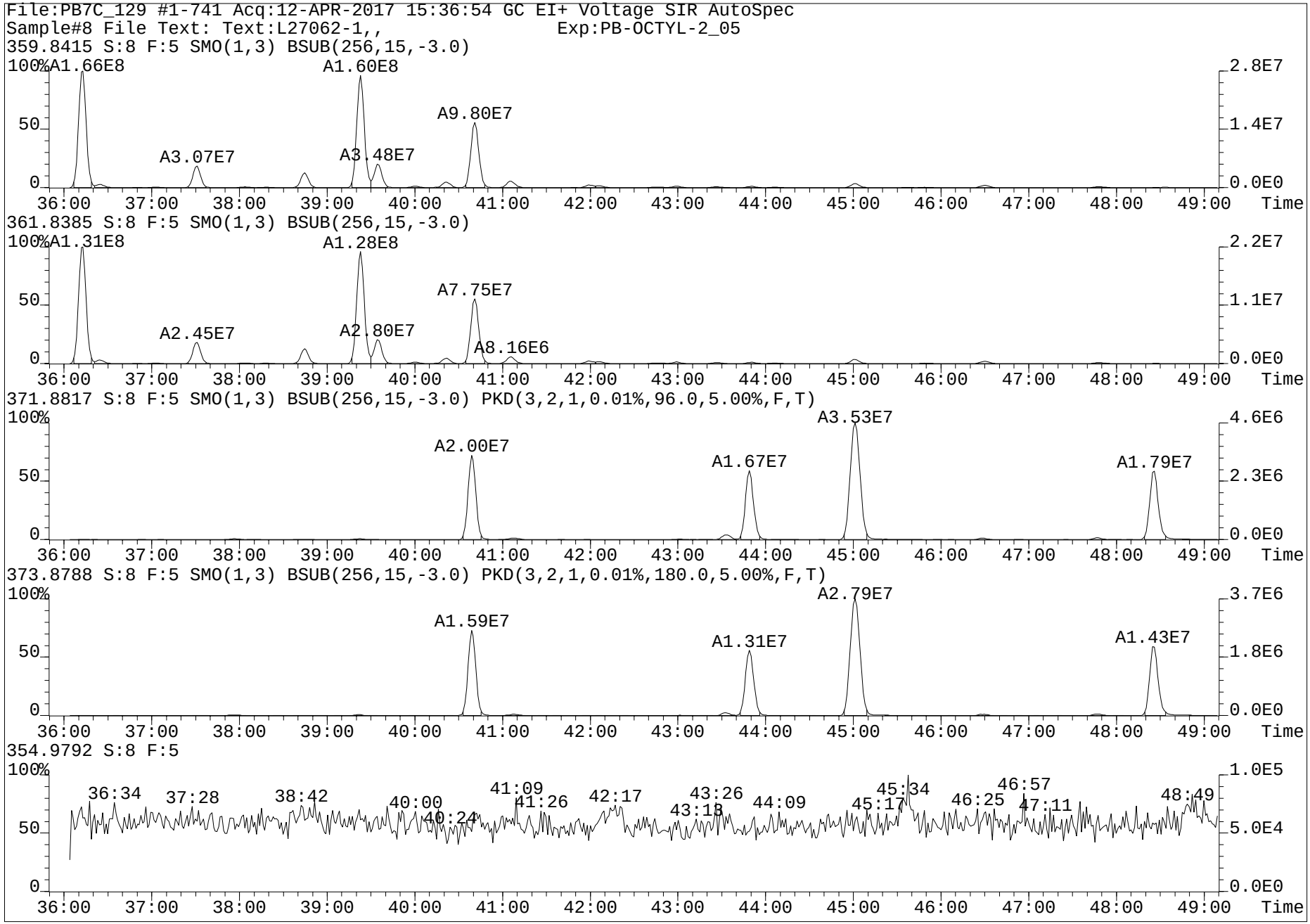

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.34E7
A7.26E6
A5.66E6
A2.41E6
A4.08E6
A1.55E6
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.52E7
A4.55E6
A3.58E6
A1.56E6
A2.65E6
359.8415 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.60E8
A9.80E7
A3.07E7
A2.09E7
A3.48E7
361.8385 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.28E8
A7.75E7
A2.45E7
A1.65E7
A2.80E7
393.8025 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.71E7
A2.06E7
A1.78E7
A5.43E6
A5.52E6
395.7995 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A3.58E7
A2.00E7
A1.70E7
A5.26E6
A5.29E6
Time

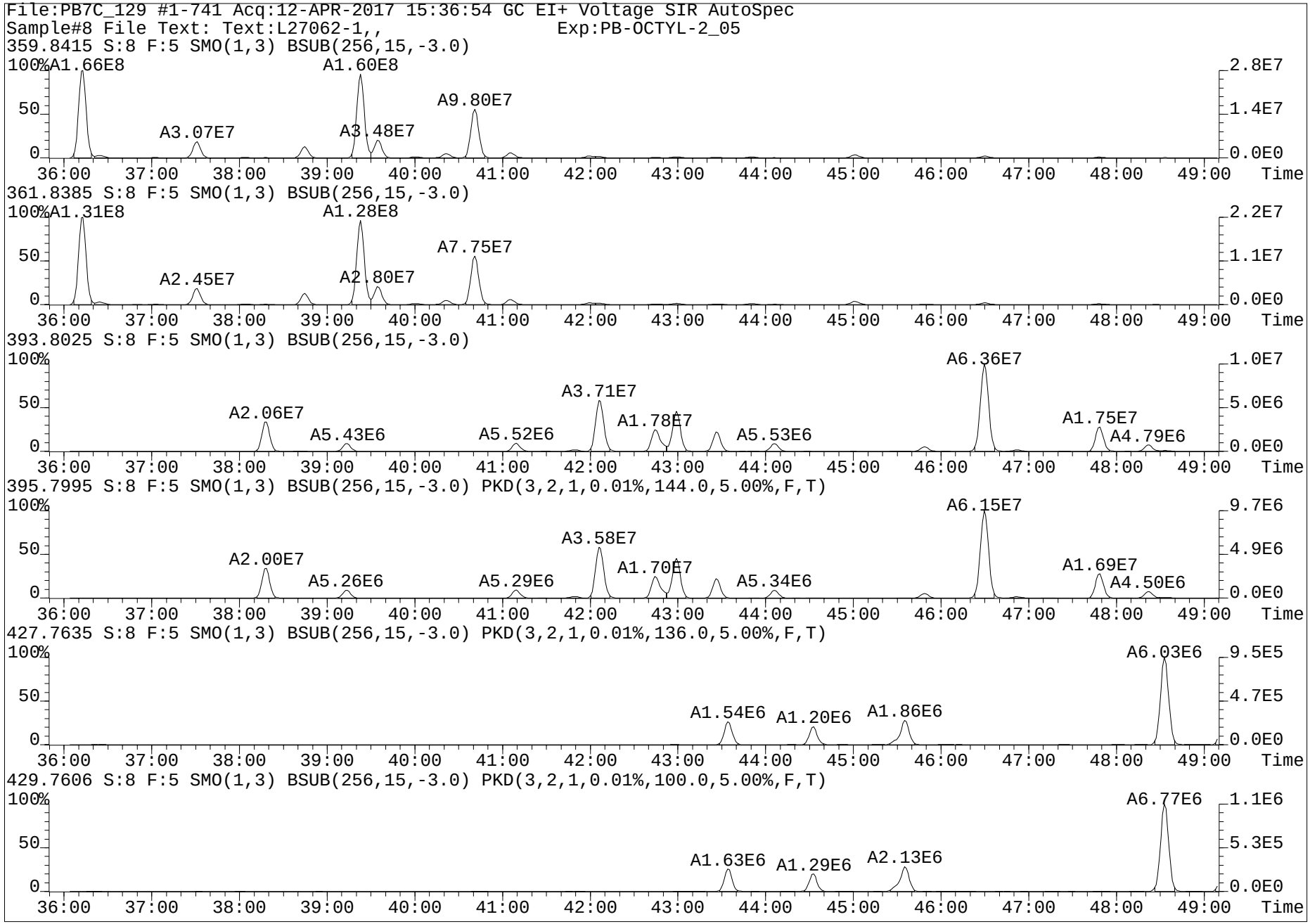

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.17E6
A5.93E5
A2.72E5
100%
90
80
70
60
50
40
30
20
10
0
1.8E5
1.7E5
1.5E5
1.3E5
1.1E5
9.2E4
7.4E4
5.5E4
3.7E4
1.8E4
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.47E5
A4.26E5
A1.87E5
100%
90
80
70
60
50
40
30
20
10
0
1.2E5
1.1E5
9.5E4
8.3E4
7.1E4
6.0E4
4.8E4
3.6E4
2.4E4
1.2E4
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time

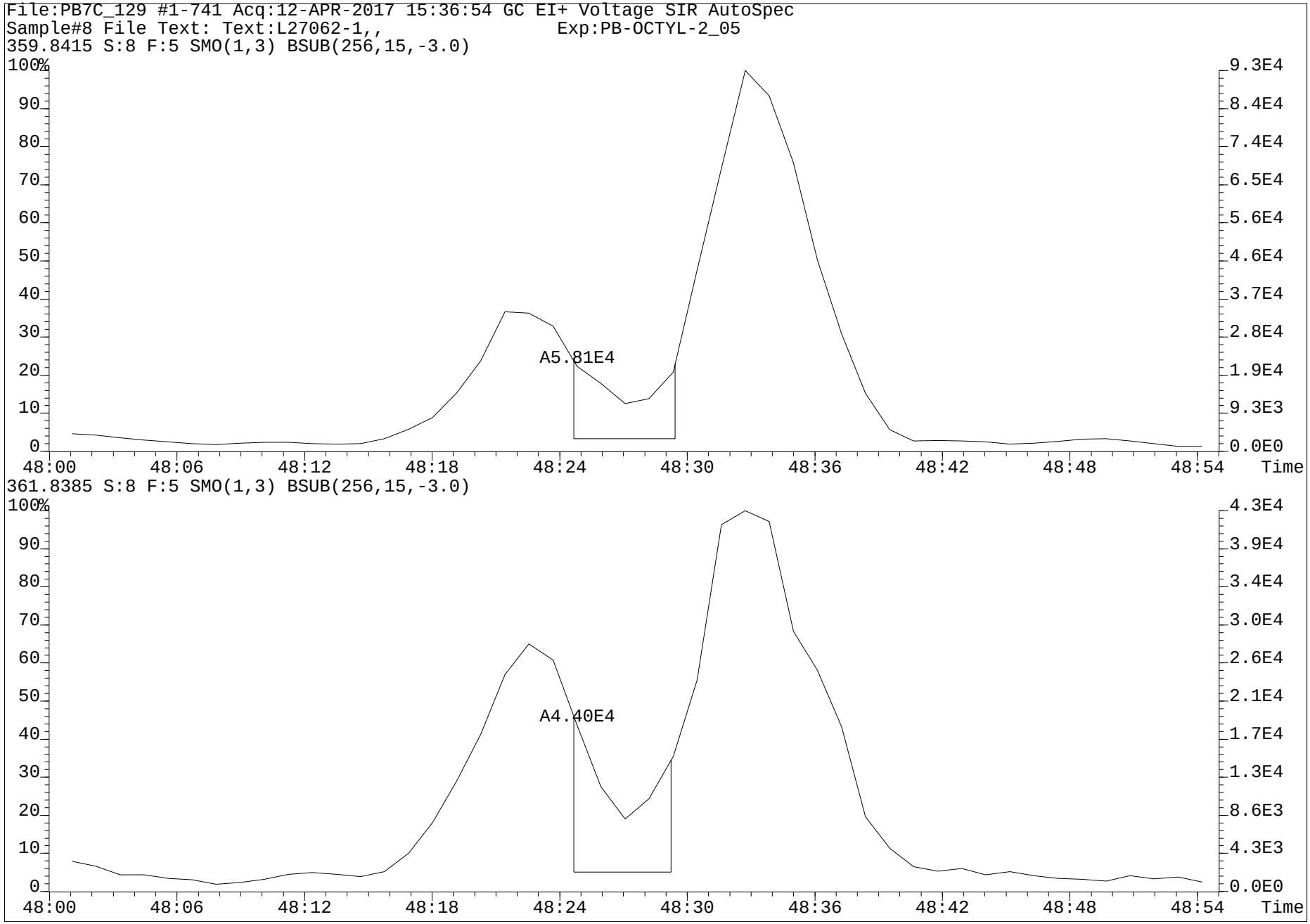

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.49E5
A3.03E5
A5.19E5
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.05E5
A1.84E5
A1.86E5
Time

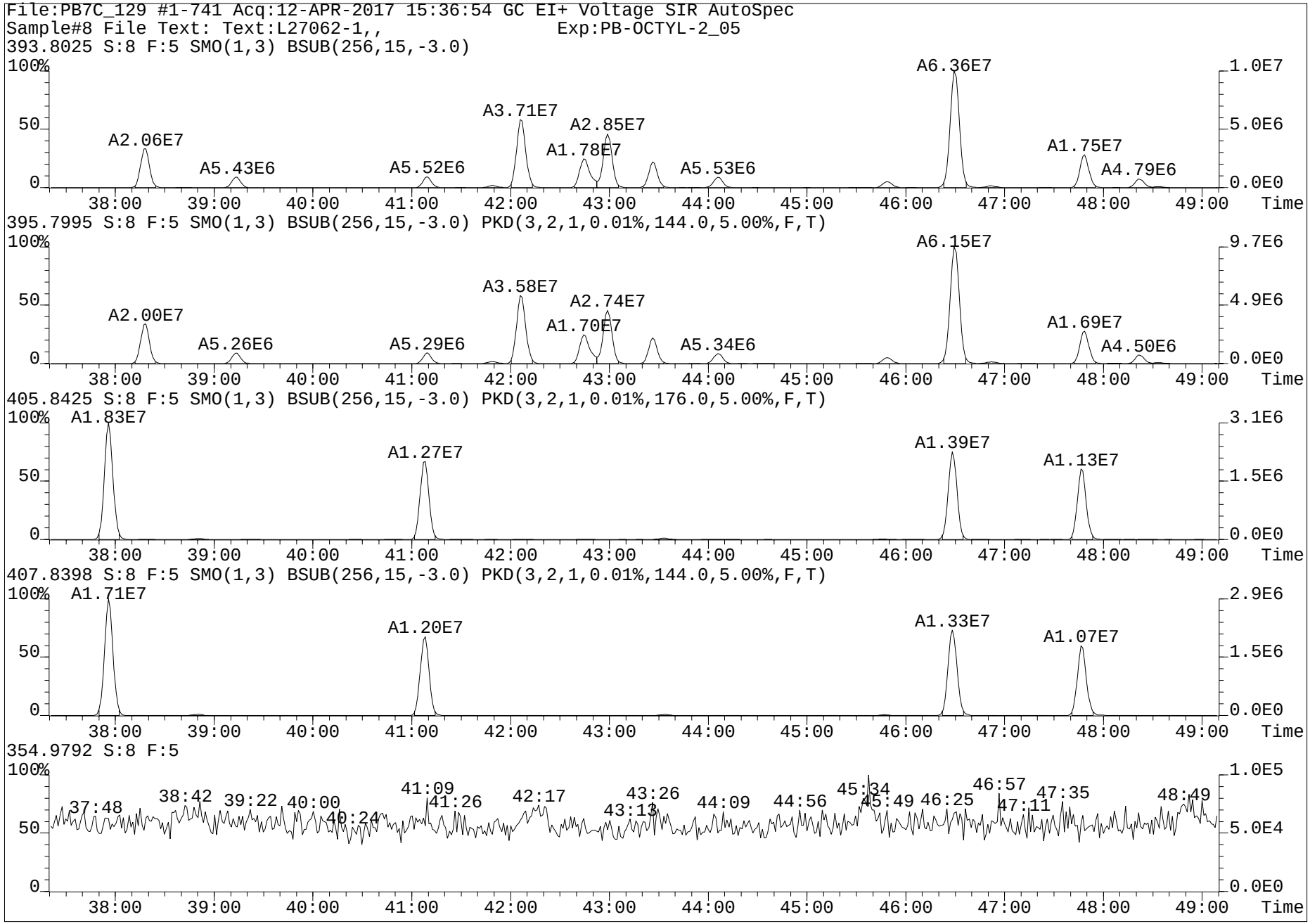

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.55E6
100%
90
80
70
60
50
40
30
20
10
0
2.2E5
2.0E5
1.8E5
1.6E5
1.3E5
1.1E5
8.9E4
6.7E4
4.4E4
2.2E4
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A6.72E5
100%
90
80
70
60
50
40
30
20
10
0
9.9E4
8.9E4
7.9E4
6.9E4
5.9E4
5.0E4
4.0E4
3.0E4
2.0E4
9.9E3
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

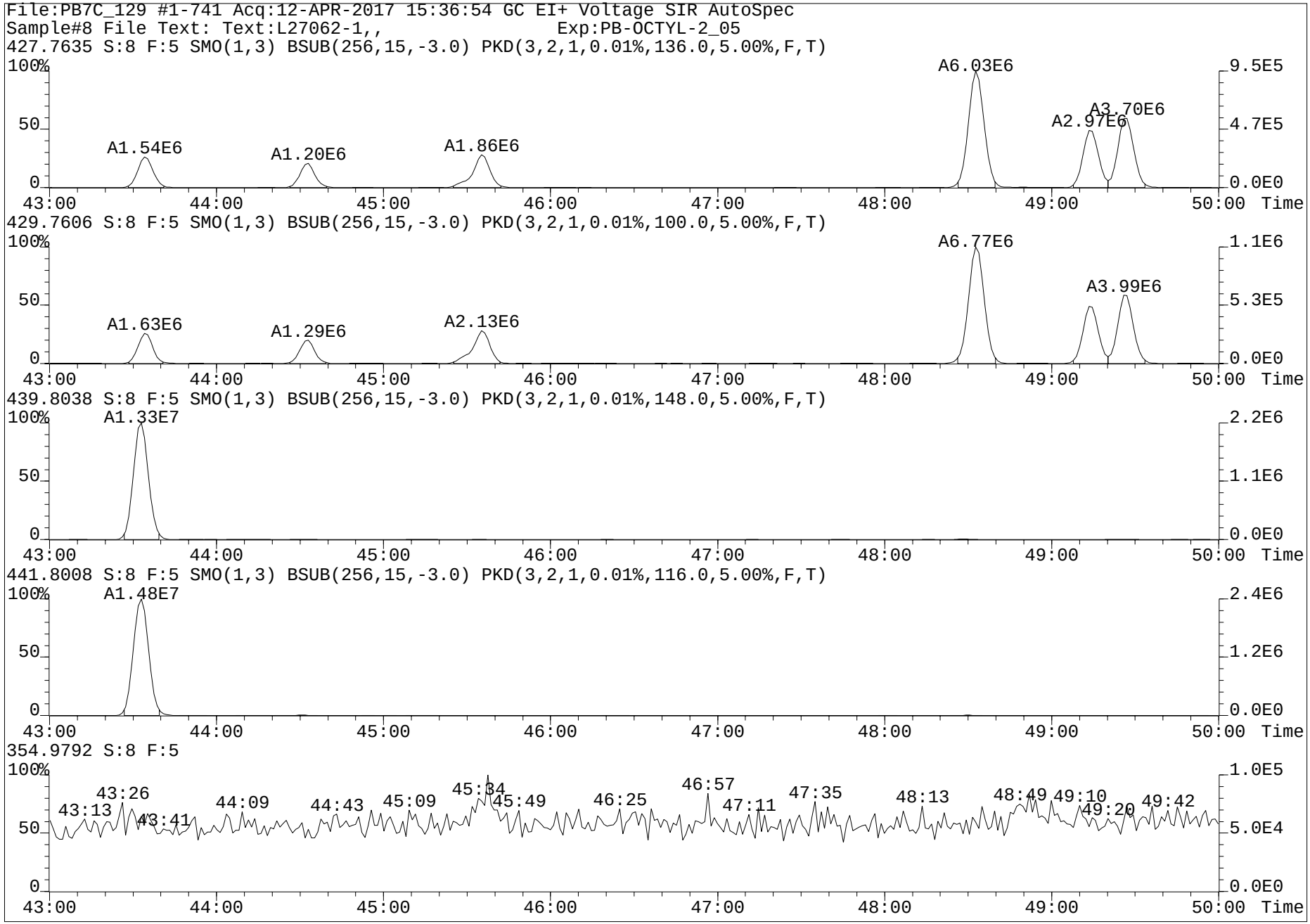

File:PB7C_129 #1-474 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
359.8415 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.20E7
A1.01E8
A1.07E7
361.8385 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.37E7
A8.00E7
A8.62E6
371.8817 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A2.43E7
373.8788 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.94E7
330.9792 S:8 F:4
31:20
31:53
32:30
32:37
33:08
33:28
33:51
34:20
34:52
35:13
35:50
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
1.4E7
7.1E6
0.0E0
1.1E7
5.7E6
4.2E6
2.1E6
3.4E6
1.7E6
4.3E5
2.1E5

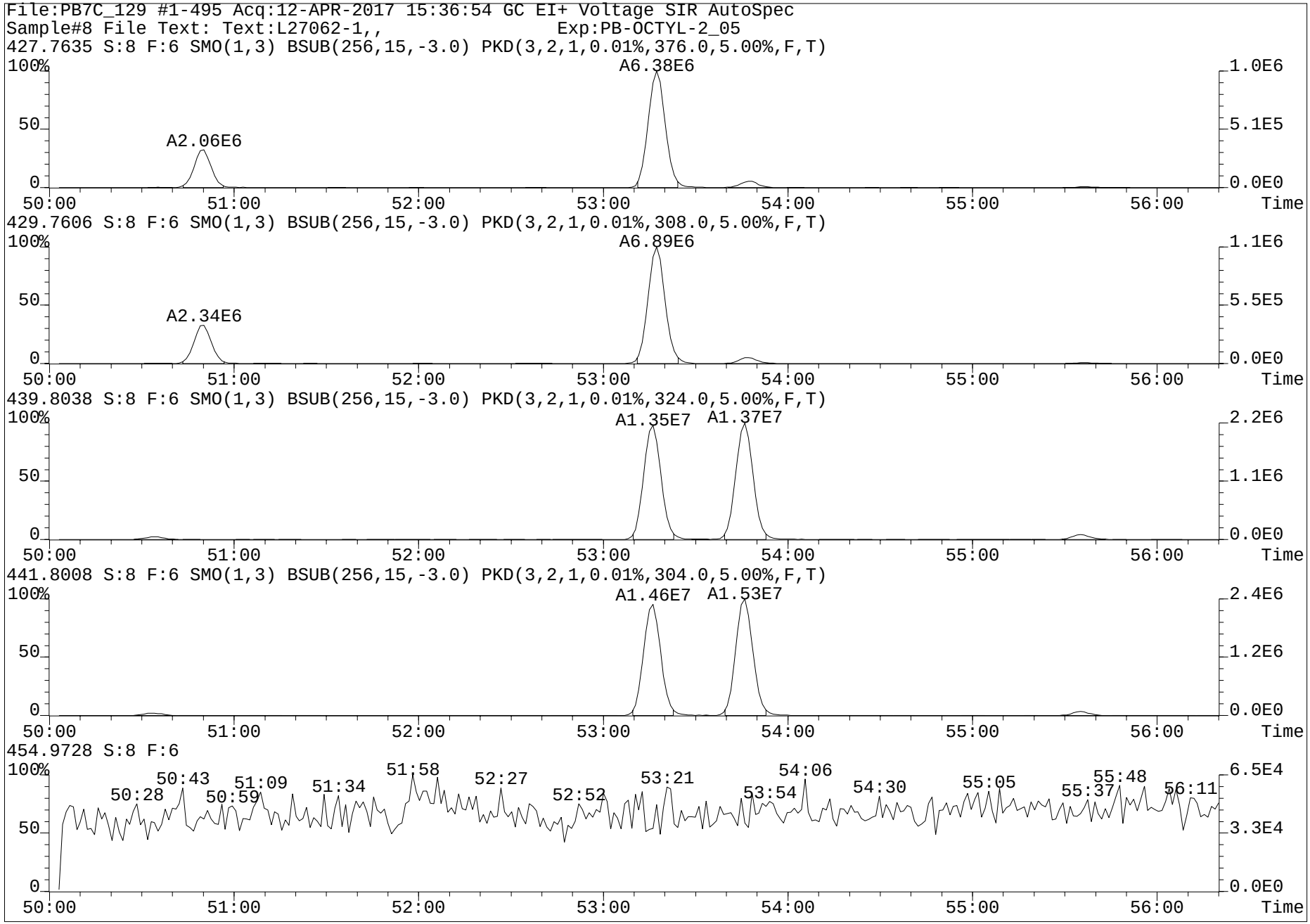

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
359.8415 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.66E8
A1.60E8
A9.80E7
A3.07E7
A3.48E7
361.8385 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.31E8
A1.28E8
A7.75E7
A2.45E7
A2.80E7
A8.16E6
371.8817 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,96.0,5.00%,F,T)
A3.53E7
A2.00E7
A1.67E7
A1.79E7
373.8788 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,180.0,5.00%,F,T)
A2.79E7
A1.59E7
A1.31E7
A1.43E7
354.9792 S:8 F:5
36:34
37:28
38:42
40:00
40:24
41:09
41:26
42:17
43:18
43:26
44:09
45:17
45:34
46:25
46:57
47:11
48:49
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

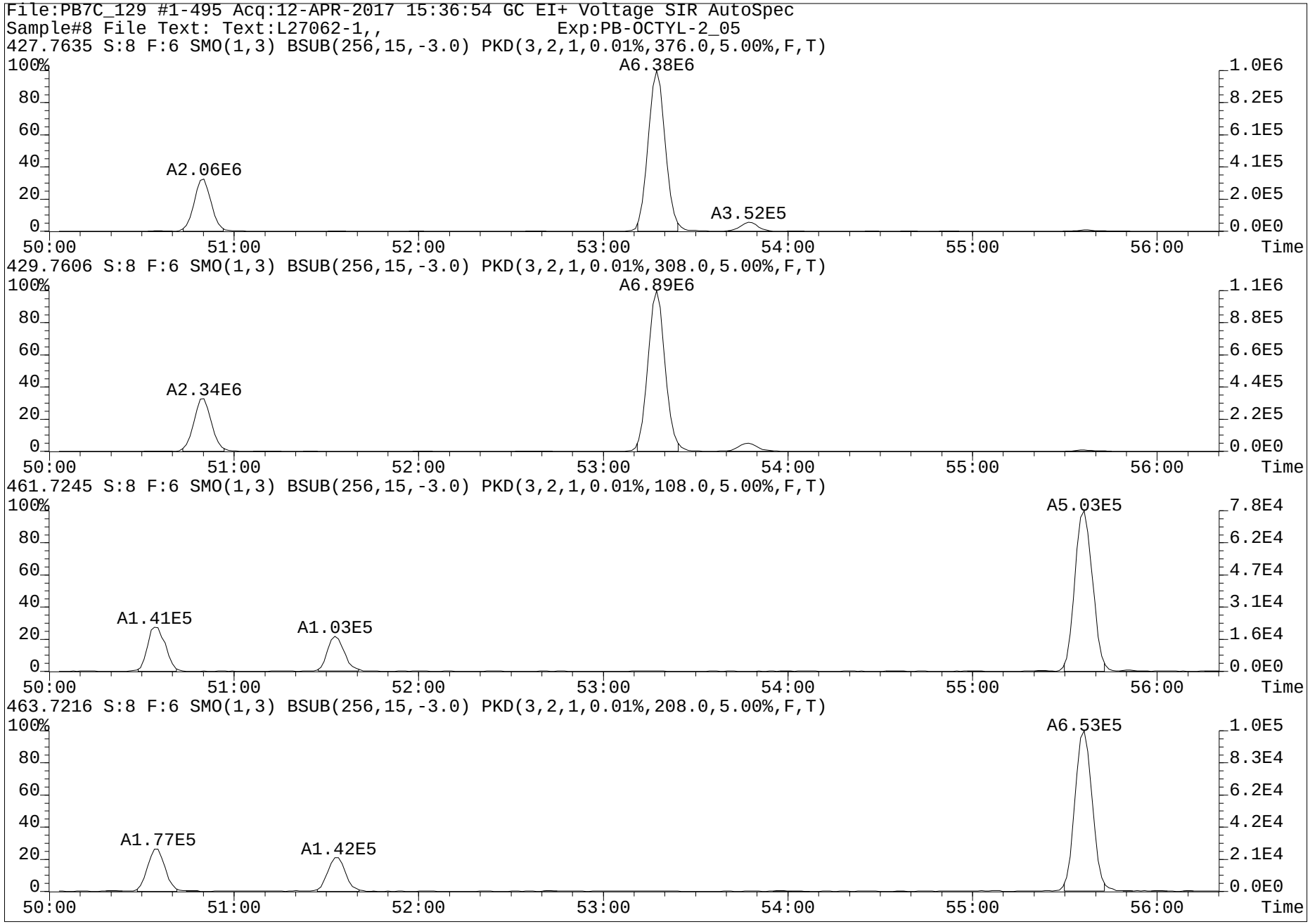

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
359.8415 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.66E8
A1.60E8
A9.80E7
A3.07E7
A3.48E7
361.8385 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.31E8
A1.28E8
A7.75E7
A2.45E7
A2.80E7
393.8025 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A6.36E7
A3.71E7
A2.06E7
A1.78E7
A1.75E7
A5.43E6
A5.52E6
A5.53E6
A4.79E6
395.7995 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A6.15E7
A3.58E7
A2.00E7
A1.70E7
A1.69E7
A5.26E6
A5.29E6
A5.34E6
A4.50E6
427.7635 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A6.03E6
A1.54E6
A1.20E6
A1.86E6
429.7606 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A6.77E6
A1.63E6
A1.29E6
A2.13E6
Time

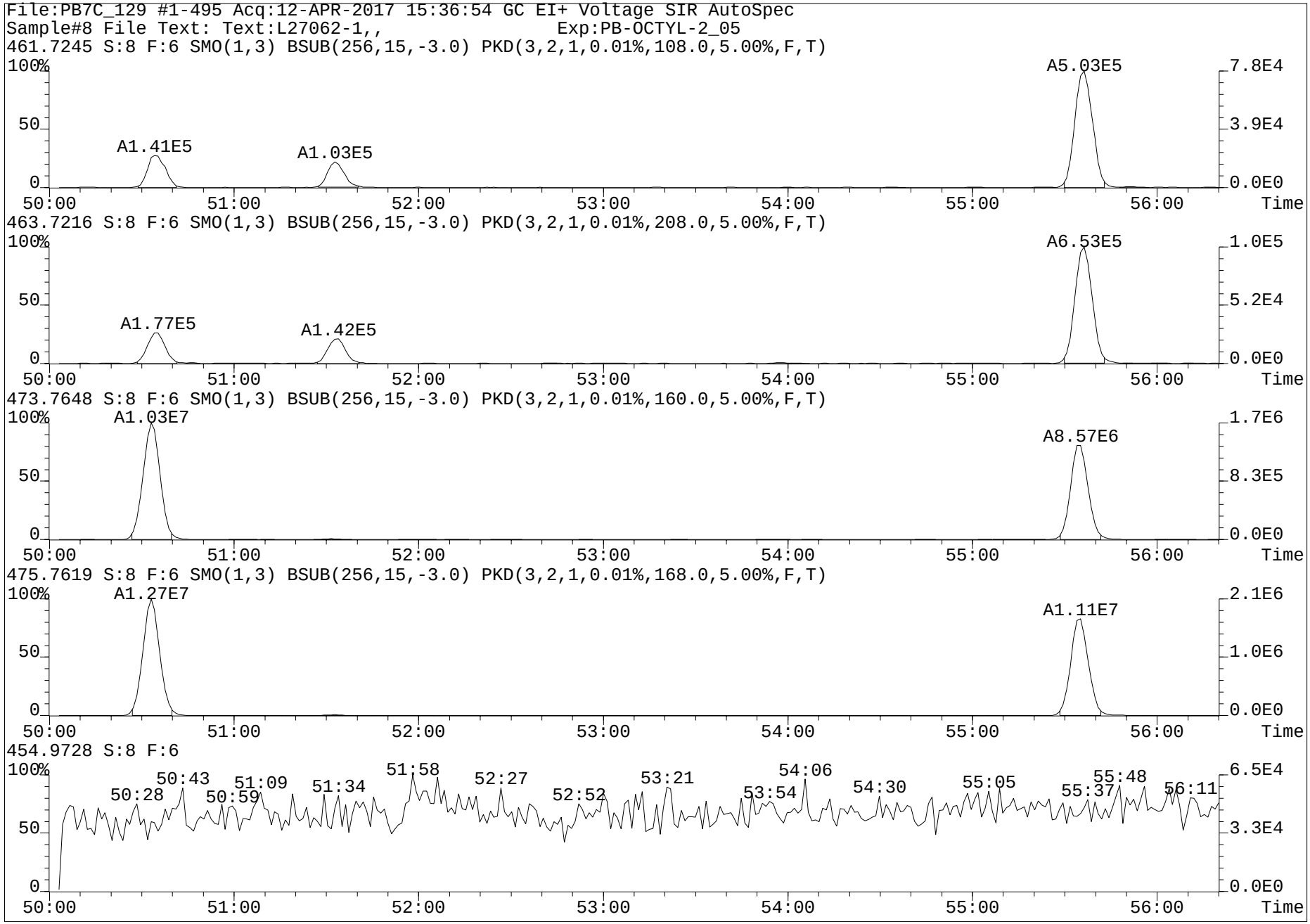

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
359.8415 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
9.3E4
8.4E4
7.4E4
6.5E4
5.6E4
4.6E4
3.7E4
2.8E4
1.9E4
9.3E3
0.0E0
A5.81E4
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time
361.8385 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
4.3E4
3.9E4
3.4E4
3.0E4
2.6E4
2.1E4
1.7E4
1.3E4
8.6E3
4.3E3
0.0E0
A4.40E4
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time

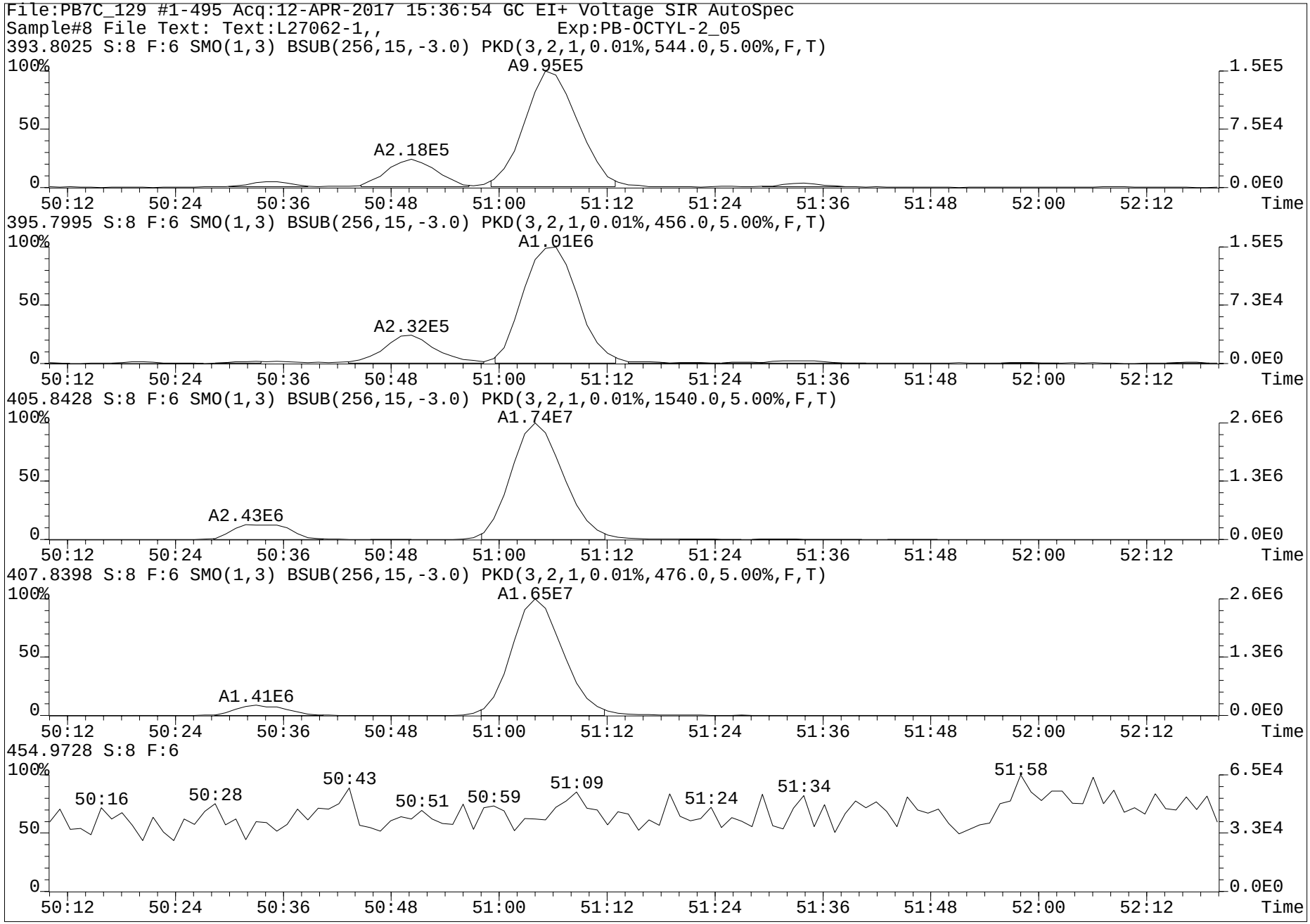

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
393.8025 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.06E7
A5.43E6
A5.52E6
A3.71E7
A2.85E7
A1.78E7
A5.53E6
A6.36E7
A1.75E7
A4.79E6
395.7995 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A2.00E7
A5.26E6
A5.29E6
A3.58E7
A2.74E7
A1.70E7
A5.34E6
A6.15E7
A1.69E7
A4.50E6
405.8425 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A1.83E7
A1.27E7
A1.39E7
A1.13E7
407.8398 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A1.71E7
A1.20E7
A1.33E7
A1.07E7
354.9792 S:8 F:5
37:48
38:42
39:22
40:00
40:24
41:09
41:26
42:17
43:13
43:26
44:09
44:56
45:34
45:49
46:25
46:57
47:11
47:35
48:49
100%
50
0
1.0E7
5.0E6
0.0E0
9.7E6
4.9E6
3.1E6
1.5E6
2.9E6
1.5E6
1.0E5
5.0E4
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

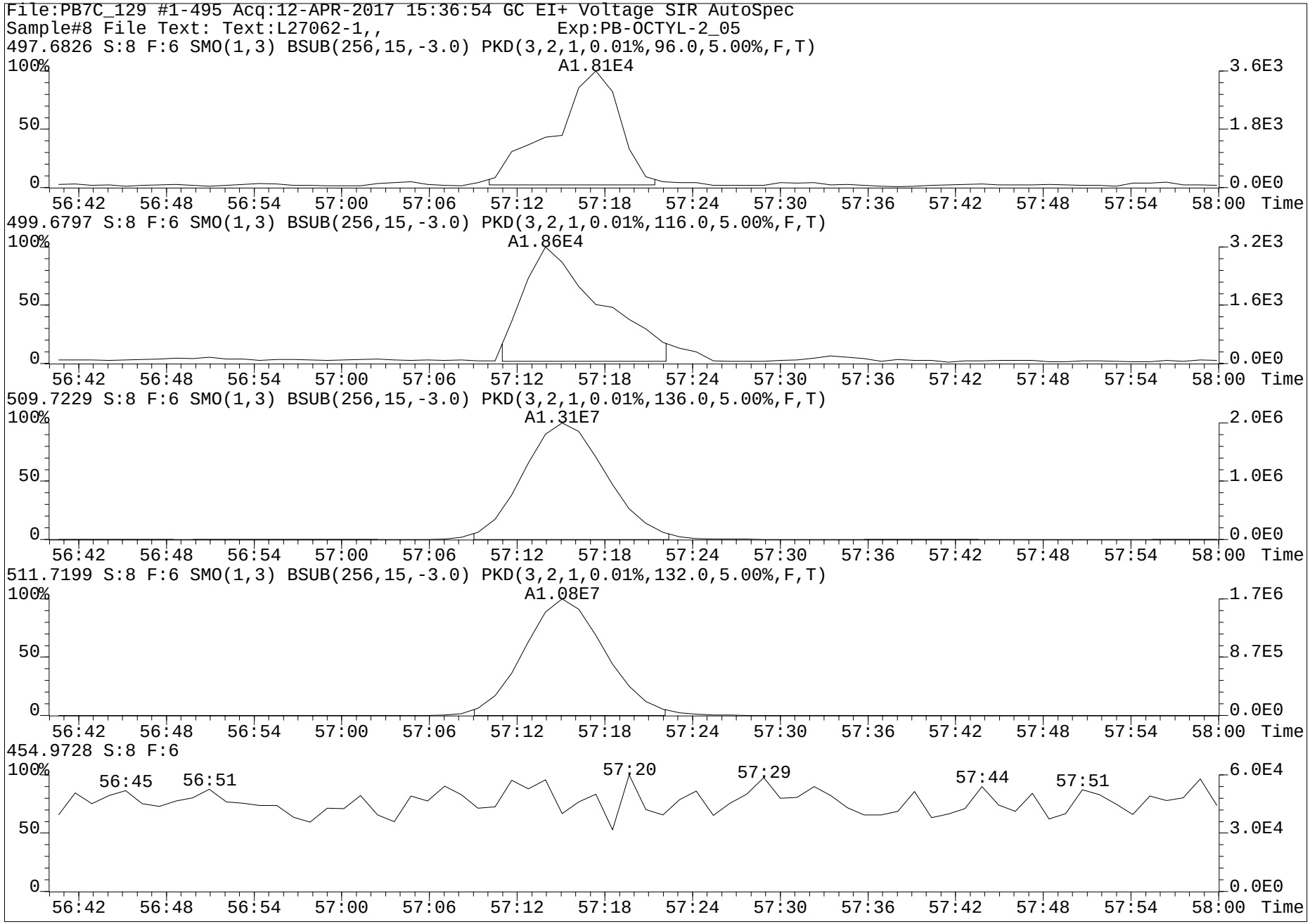

File:PB7C_129 #1-741 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
427.7635 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.54E6
A1.20E6
A1.86E6
A6.03E6
A2.97E6
A3.70E6
429.7606 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.63E6
A1.29E6
A2.13E6
A6.77E6
A3.99E6
439.8038 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A1.33E7
441.8008 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.48E7
354.9792 S:8 F:5
43:13
43:26
43:41
44:09
44:43
45:09
45:34
45:49
46:25
46:57
47:11
47:35
48:13
48:49
49:10
49:20
49:42
100%
50
0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time
9.5E5
4.7E5
0.0E0
1.1E6
5.3E5
2.2E6
1.1E6
2.4E6
1.2E6
1.0E5
5.0E4


File:PB7C_129 #1-495 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
427.7635 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,376.0,5.00%,F,T)
A6.38E6
A2.06E6
429.7606 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,308.0,5.00%,F,T)
A6.89E6
A2.34E6
439.8038 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,324.0,5.00%,F,T)
A1.35E7
A1.37E7
441.8008 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.46E7
A1.53E7
454.9728 S:8 F:6
50:28
50:43
50:59
51:09
51:34
51:58
52:27
52:52
53:21
53:54
54:06
54:30
55:05
55:37
55:48
56:11
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.0E6
5.1E5
0.0E0
1.1E6
5.5E5
2.2E6
1.1E6
2.4E6
1.2E6
6.5E4
3.3E4


File:PB7C_129 #1-495 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
427.7635 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,376.0,5.00%,F,T)
A6.38E6
A2.06E6
A3.52E5
429.7606 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,308.0,5.00%,F,T)
A6.89E6
A2.34E6
461.7245 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A5.03E5
A1.41E5
A1.03E5
463.7216 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,208.0,5.00%,F,T)
A6.53E5
A1.77E5
A1.42E5
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
461.7245 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.41E5
A1.03E5
A5.03E5
463.7216 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,208.0,5.00%,F,T)
A1.77E5
A1.42E5
A6.53E5
473.7648 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A1.03E7
A8.57E6
475.7619 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A1.27E7
A1.11E7
454.9728 S:8 F:6
50:28
50:43
50:59
51:09
51:34
51:58
52:27
52:52
53:21
53:54
54:06
54:30
55:05
55:37
55:48
56:11
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
7.8E4
3.9E4
0.0E0
1.0E5
5.2E4
1.7E6
8.3E5
2.1E6
1.0E6
6.5E4
3.3E4


File:PB7C_129 #1-495 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
393.8025 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,544.0,5.00%,F,T)
A9.95E5
A2.18E5
1.5E5
7.5E4
0.0E0
395.7995 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A1.01E6
A2.32E5
1.5E5
7.3E4
0.0E0
405.8428 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1540.0,5.00%,F,T)
A1.74E7
A2.43E6
2.6E6
1.3E6
0.0E0
407.8398 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,476.0,5.00%,F,T)
A1.65E7
A1.41E6
2.6E6
1.3E6
0.0E0
454.9728 S:8 F:6
50:16
50:28
50:43
50:51
50:59
51:09
51:24
51:34
51:58
6.5E4
3.3E4
0.0E0
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 15:36:54 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:L27062-1,, Exp:PB-OCTYL-2_05
497.6826 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,96.0,5.00%,F,T)
A1.81E4
499.6797 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.86E4
509.7229 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.31E7
511.7199 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A1.08E7
454.9728 S:8 F:6
56:45
56:51
57:20
57:29
57:44
57:51
100%
50
0
3.6E3
1.8E3
0.0E0
3.2E3
1.6E3
2.0E6
1.0E6
1.7E6
8.7E5
6.0E4
3.0E4
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time

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Run #14 Filename PB7C_129 S: 9 I: 1 Acquired: 12-APR-17 16:41:09 Processed: 13-APR-17 07:58:25
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-2,, Comments: 1,WG58451,1.0/20uL
sample size: 0.999730 conc units: pg/L total toxicity: 7832.29 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 2.12e+07 | 3.16 | y | 11:30 | 720.040 | 720 | 0.3757 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 2.87e+06 | 3.20 | y | 13:44 | 94.012 | 94 | 0.4384 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 8.50e+07 | 1.55 | y | 13:58 | 4254.576 | 4255 | 2.3209 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.57e+07 | 1.59 | y | 20:04 | 417.100 | 417 | 1.6059 | - | y |
| 5 | Unk | CL3-PCB-19 | 1 | 2.27e+07 | 1.06 | y | 17:09 | 1221.406 | 1221 | 0.5256 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 9.74e+06 | 1.06 | y | 27:22 | 287.543 | 288 | 6.7666 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 3.66e+05 | 0.85 | y | 20:20 | 12.545 | 13 | 0.3806 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 5.55e+04 | 1.04 | n | 34:25 | 2.168 | 2 | 5.8955 | - | y |
| 9 | Unk | CL4-PCB-77 | 1 | 1.32e+06 | 0.79 | y | 35:00 | 52.898 | 53 | 6.1763 | - | n |
| 10 | Unk | CL5-PCB-104 | 0 | * | * | n | NotFnd | * | * | 0.2309 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 1.78e+05 | 1.43 | y | 37:06 | 10.052 | 10 | 2.1625 | - | y |
| 12 | Unk | CL5-PCB-118 | 1 | 8.40e+06 | 1.57 | y | 37:26 | 455.388 | 455 | 2.0502 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 1.59e+05 | 1.47 | y | 37:59 | 8.532 | 9 | 1.9924 | - | y |
| 14 | Unk | CL5-PCB-105 | 1 | 3.08e+06 | 1.60 | y | 38:39 | 163.910 | 164 | 2.0145 | - | n |
| 15 | Unk | CL5-PCB-126 | 0 | * | * | n | NotFnd | * | * | 2.6237 | - | n |
| 16 | Unk | CL6-PCB-155 | 0 | * | * | n | NotFnd | * | * | 0.2585 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 2.26e+05 | 1.17 | y | 43:51 | 17.560 | 18 | 2.6694 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 5.41e+05 | 1.32 | y | 45:03 | 43.062 | 43 | 3.4559 | - | n |
| 19 | Unk | CL6-PCB-169 | 0 | * | * | n | NotFnd | * | * | 3.0772 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 4.67e+03 | 0.97 | y | 37:57 | 0.327 | 0 | 0.2742 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 8.17e+04 | 1.18 | y | 51:06 | 6.878 | 7 | 0.5261 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 2.47e+05 | 0.97 | y | 43:35 | 24.218 | 24 | 0.3375 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 4.49e+04 | 1.10 | n | 53:48 | 4.631 | 5 | 0.4026 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 5.07e+04 | 0.80 | y | 50:36 | 6.286 | 6 | 0.6880 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.61e+05 | 0.83 | y | 55:37 | 24.958 | 25 | 0.8851 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 3.70e+04 | 0.86 | n | 57:17 | 4.202 | 4 | 0.3796 | - | y |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 5.38e+07 | 3.19 | y | 11:29 | 795.173 | 0 | 2.1665 | 39.7 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 5.59e+07 | 3.12 | y | 13:43 | 845.968 | 0 | 2.2216 | 42.3 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 3.90e+07 | 1.56 | y | 13:58 | 897.791 | 0 | 1.1148 | 44.9 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 8.12e+07 | 1.60 | y | 20:03 | 1140.562 | 0 | 0.6809 | 57.0 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 3.76e+07 | 1.03 | y | 17:08 | 967.118 | 0 | 3.0194 | 48.3 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 6.70e+07 | 1.06 | y | 27:21 | 1346.075 | 0 | 4.9038 | 67.3 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 5.60e+07 | 0.78 | y | 20:19 | 1376.265 | 0 | 0.3733 | 68.8 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 5.01e+07 | 0.78 | y | 34:24 | 1242.657 | 0 | 0.5843 | 62.1 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 4.97e+07 | 0.77 | y | 34:59 | 1197.632 | 0 | 0.5667 | 59.9 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 4.20e+07 | 1.59 | y | 26:02 | 1327.371 | 0 | 0.1176 | 66.4 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 3.65e+07 | 1.63 | y | 37:04 | 1283.799 | 0 | 1.5560 | 64.2 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 3.61e+07 | 1.60 | y | 37:25 | 1287.333 | 0 | 1.5768 | 64.3 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 3.52e+07 | 1.65 | y | 37:58 | 1295.124 | 0 | 1.6265 | 64.7 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 3.69e+07 | 1.57 | y | 38:38 | 1323.575 | 0 | 1.5848 | 66.2 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 2.93e+07 | 1.61 | y | 41:53 | 1146.369 | 0 | 1.7303 | 57.3 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 3.90e+07 | 1.27 | y | 31:58 | 1525.318 | 0 | 0.2029 | 76.2 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 2.33e+07 | 1.27 | y | 43:49 | 1253.330 | 0 | 0.2565 | 62.6 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 4.66e+07 | 1.26 | y | 45:02 | 2407.695 | 0 | 0.2460 | 60.2 | n |

SVD BY SJH 20-Apr-2017

PV by TD 15-Apr-2017

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 2.33e+07 | 1.27 | y | 48:27 | 1262.782 | 0 | 0.2579 | 63.1 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 3.02e+07 | 1.07 | y | 37:56 | 1163.381 | 0 | 0.2097 | 58.2 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 2.37e+07 | 1.04 | y | 51:05 | 1401.107 | 0 | 0.8359 | 70.0 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 2.38e+07 | 0.93 | y | 43:33 | 992.695 | 0 | 0.1768 | 49.6 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 2.04e+07 | 0.86 | y | 53:47 | 1290.483 | 0 | 0.3361 | 64.5 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 1.78e+07 | 0.78 | y | 50:34 | 1173.829 | 0 | 0.2518 | 58.7 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 1.38e+07 | 0.78 | y | 55:35 | 1205.575 | 0 | 0.3330 | 60.3 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 1.73e+07 | 1.17 | y | 57:16 | 1201.192 | 0 | 0.2558 | 60.0 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.30e+08 | 1.60 | y | 16:00 | 81.843 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.81e+07 | 0.79 | y | 25:04 | 66.311 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 4.31e+07 | 1.61 | y | 32:12 | 55.722 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 2.94e+07 | 1.26 | y | 40:39 | 42.757 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.07e+07 | 0.92 | y | 53:17 | 48.040 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 8.33e+07 | 1.06 | y | 23:10 | 1696.725 | 0 | 4.9715 | 84.8 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 3.88e+07 | 1.62 | y | 35:02 | 1373.142 | 0 | 0.2151 | 68.6 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 2.17e+07 | 1.05 | y | 41:08 | 1499.035 | 0 | 0.3662 | 74.9 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 5.60e+07 | 0.78 | y | 20:19 | 1376.265 | 0 | 0.3733 | 68.8 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 3.02e+07 | 1.07 | y | 37:56 | 1163.381 | 0 | 0.2097 | 58.2 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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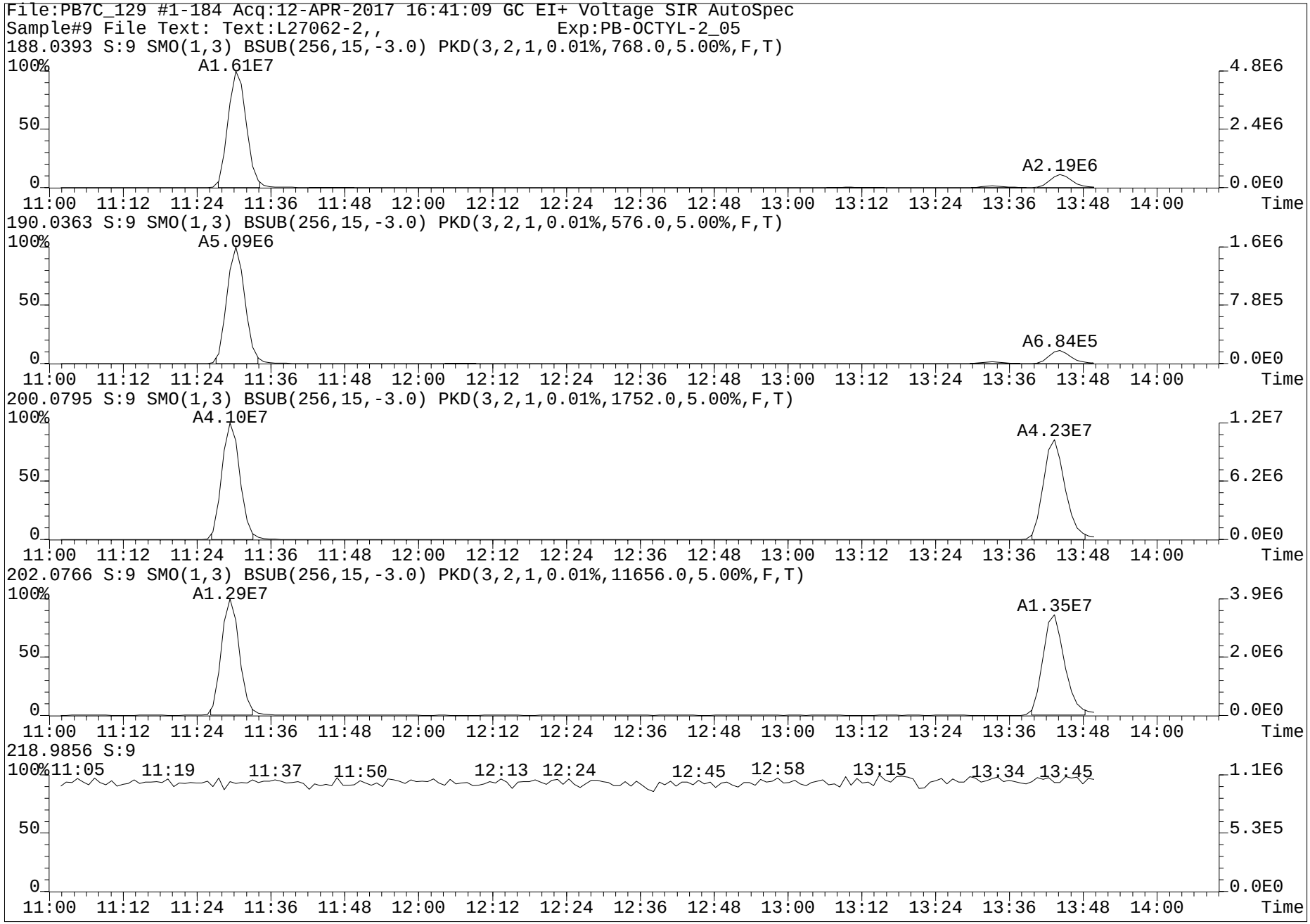
Run #7 Filename PB7C_129 S: 9 I: 1 Acquired: 12-APR-17 16:41:09 Processed: 13-APR-17 08:22:41
Run: pb7c_129-tc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-2,, Comments: 1,WG58451,1.0/20uL
sample size: 0.999730 conc units: pg/L total toxicity: 63910.» F1: 1.0000 F2: 1.0000

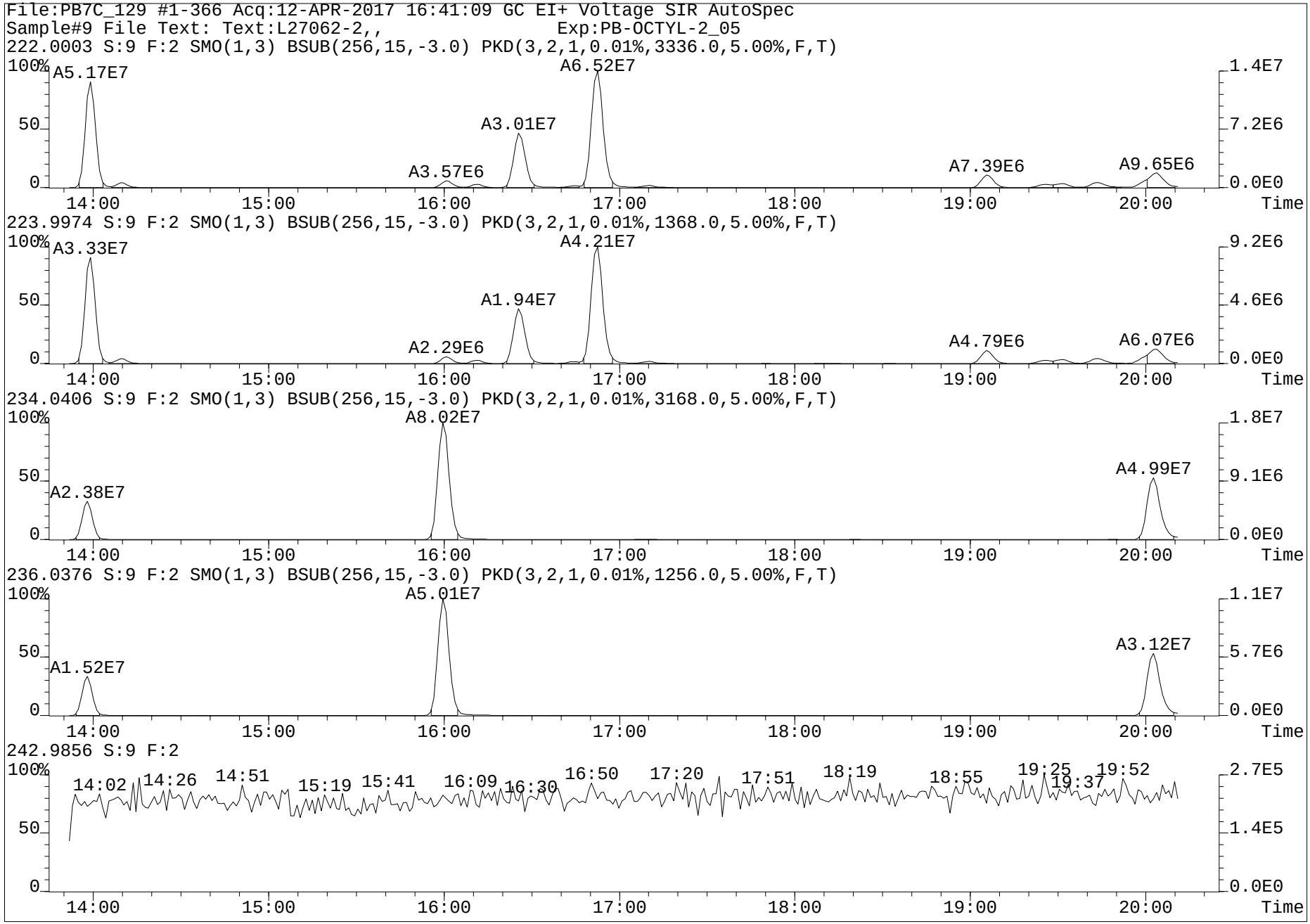
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 3.40e+05 | 3.25 | y | 13:33 | 11.040 | 11 | 0.3969 | - | n |
| 2 | Unk | CL2-PCB-10 | 1 | 4.11e+06 | 1.50 | y | 14:09 | 112.294 | 112 | 1.4596 | - | n |
| 3 | Unk | CL2-PCB-9 | 1 | 5.86e+06 | 1.56 | y | 16:01 | 152.734 | 153 | 1.3933 | - | n |
| 4 | Unk | CL2-PCB-7 | 1 | 3.00e+06 | 1.51 | y | 16:11 | 79.668 | 80 | 1.4212 | - | n |
| 5 | Unk | CL2-PCB-6 | 1 | 4.95e+07 | 1.55 | y | 16:26 | 1285.273 | 1285 | 1.3872 | - | n |
| 6 | Unk | CL2-PCB-5 | 1 | 1.52e+06 | 1.50 | y | 16:43 | 43.121 | 43 | 1.5188 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 1.07e+08 | 1.55 | y | 16:51 | 2635.924 | 2636 | 1.3127 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 1.4017 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 3.19e+06 | 1.54 | y | 19:25 | 83.766 | 84 | 1.4051 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 1 | 5.90e+06 | 1.55 | y | 19:44 | 158.199 | 158 | 1.4325 | - | n |
| 11 | Unk | CL3-PCB-30/18 | 1 | 1.99e+08 | 1.05 | y | 19:05 | 7115.123 | 7115 | 0.3998 | - | n |
| 12 | Unk | CL3-PCB-17 | 1 | 7.04e+07 | 1.06 | y | 19:30 | 2976.818 | 2977 | 0.4732 | - | n |
| 13 | Unk | CL3-PCB-27 | 1 | 1.32e+07 | 1.05 | y | 19:44 | 394.375 | 394 | 0.3341 | - | y |
| 14 | Unk | CL3-PCB-24 | 1 | 1.82e+06 | 1.02 | y | 19:51 | 58.889 | 59 | 0.3618 | - | y |
| 15 | Unk | CL3-PCB-16 | 1 | 5.74e+07 | 1.06 | y | 19:58 | 2771.540 | 2772 | 0.5402 | - | y |
| 16 | Unk | CL3-PCB-32 | 1 | 6.42e+07 | 1.04 | y | 20:32 | 1719.646 | 1720 | 5.4440 | - | n |
| 17 | Unk | CL3-PCB-34 | 1 | 1.67e+06 | 1.04 | y | 21:50 | 47.220 | 47 | 5.7430 | - | y |
| 18 | Unk | CL3-PCB-23 | 1 | 1.39e+05 | 0.98 | y | 22:00 | 4.164 | 4 | 6.0894 | - | y |
| 19 | Unk | CL3-PCB-26/29 | 1 | 5.73e+07 | 1.04 | y | 22:19 | 1574.386 | 1574 | 5.5877 | - | n |
| 20 | Unk | CL3-PCB-25 | 1 | 3.11e+07 | 1.04 | y | 22:33 | 755.447 | 755 | 4.9319 | - | n |
| 21 | Unk | CL3-PCB-31 | 1 | 1.62e+08 | 1.03 | y | 22:52 | 4259.241 | 4259 | 5.3363 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 1.48e+08 | 1.04 | y | 23:11 | 3967.019 | 3967 | 5.4335 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 6.01e+07 | 1.05 | y | 23:26 | 1603.134 | 1603 | 5.4205 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 4.40e+07 | 1.04 | y | 23:50 | 1288.693 | 1289 | 5.9485 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 5.3687 | - | n |
| 26 | Unk | CL3-PCB-39 | 1 | 1.26e+06 | 0.95 | y | 25:52 | 31.253 | 31 | 5.0343 | - | n |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 5.3615 | - | n |
| 28 | Unk | CL3-PCB-35 | 1 | 3.63e+05 | 1.11 | y | 26:57 | 10.064 | 10 | 5.6383 | - | n |
| 29 | Unk | CL4-PCB-50/53 | 1 | 1.86e+07 | 0.78 | y | 22:34 | 806.954 | 807 | 0.5857 | - | n |
| 30 | Unk | CL4-PCB-45/51 | 1 | 2.09e+07 | 0.78 | y | 23:17 | 933.871 | 934 | 0.6007 | - | n |
| 31 | Unk | CL4-PCB-46 | 1 | 6.37e+06 | 0.77 | y | 23:35 | 325.341 | 325 | 0.6883 | - | n |
| 32 | Unk | CL4-PCB-52 | 1 | 8.64e+07 | 0.79 | y | 25:05 | 3658.100 | 3658 | 0.5705 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.4491 | - | n |
| 34 | Unk | CL4-PCB-43 | 1 | 2.30e+06 | 0.78 | y | 25:19 | 137.102 | 137 | 0.8037 | - | n |
| 35 | Unk | CL4-PCB-69/49 | 1 | 5.04e+07 | 0.79 | y | 25:35 | 1965.261 | 1965 | 0.5256 | - | n |
| 36 | Unk | CL4-PCB-48 | 1 | 1.20e+07 | 0.77 | y | 25:53 | 503.786 | 504 | 0.5644 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 7.02e+07 | 0.79 | y | 26:06 | 2797.292 | 2797 | 0.5366 | - | n |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 6.83e+06 | 0.79 | y | 26:27 | 226.616 | 227 | 0.4469 | - | n |
| 39 | Unk | CL4-PCB-42 | 1 | 1.61e+07 | 0.78 | y | 26:39 | 787.282 | 787 | 0.6570 | - | n |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 3.16e+07 | 0.79 | y | 27:09 | 1461.972 | 1462 | 0.6229 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 3.03e+07 | 0.79 | y | 27:24 | 1032.171 | 1032 | 0.4588 | - | n |
| 42 | Unk | CL4-PCB-72 | 1 | 1.06e+06 | 0.82 | y | 28:18 | 33.477 | 33 | 4.4347 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 5.33e+05 | 0.87 | y | 28:36 | 16.515 | 17 | 4.3498 | - | n |
| 44 | Unk | CL4-PCB-57 | 1 | 2.41e+05 | 0.70 | y | 29:01 | 7.540 | 8 | 4.3913 | - | y |

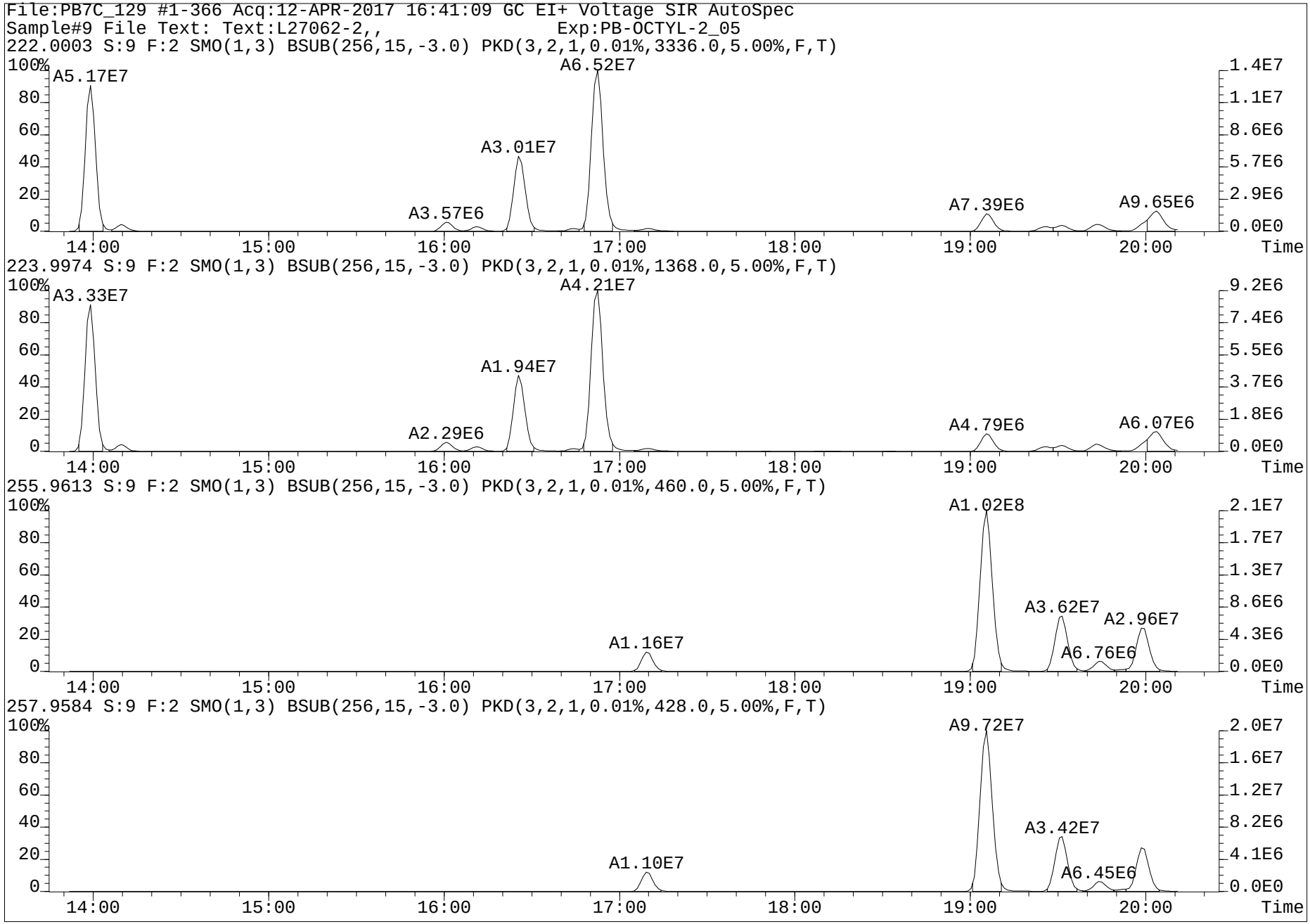
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 1 | 2.68e+05 | 0.87 | y | 29:17 | 9.216 | 9 | 4.8224 | - | y |
| 46 | Unk | CL4-PCB-67 | 1 | 1.33e+06 | 0.77 | y | 29:27 | 37.341 | 37 | 3.9376 | - | y |
| 47 | Unk | CL4-PCB-63 | 1 | 1.38e+06 | 0.80 | y | 29:44 | 44.701 | 45 | 4.5588 | - | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 5.59e+07 | 0.78 | y | 30:05 | 1885.668 | 1886 | 4.7303 | - | n |
| 49 | Unk | CL4-PCB-66 | 1 | 3.11e+07 | 0.79 | y | 30:24 | 1027.613 | 1028 | 4.6422 | - | n |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 5.0954 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 1.48e+07 | 0.78 | y | 31:06 | 538.508 | 539 | 5.1214 | - | n |
| 52 | Unk | CL4-PCB-60 | 1 | 4.13e+06 | 0.77 | y | 31:20 | 149.912 | 150 | 5.0988 | - | n |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 4.5604 | - | n |
| 54 | Unk | CL4-PCB-79 | 1 | 4.05e+05 | 0.77 | y | 33:22 | 12.255 | 12 | 4.2454 | - | y |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 5.1008 | - | n |
| 56 | Unk | CL5-PCB-96 | 1 | 4.87e+05 | 1.47 | y | 26:26 | 22.499 | 22 | 0.2699 | - | n |
| 57 | Unk | CL5-PCB-103 | 1 | 5.11e+05 | 1.61 | y | 28:28 | 29.336 | 29 | 1.0481 | - | n |
| 58 | Unk | CL5-PCB-94 | 1 | 1.80e+05 | 1.59 | y | 28:41 | 12.874 | 13 | 1.3046 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 2.26e+07 | 1.59 | y | 29:10 | 1457.348 | 1457 | 1.1771 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 1 | 3.37e+06 | 1.69 | y | 30:03 | 228.171 | 228 | 1.2373 | - | n |
| 61 | Unk | CL5-PCB-84 | 1 | 5.60e+06 | 1.57 | y | 30:16 | 426.711 | 427 | 1.3926 | - | n |
| 62 | Unk | CL5-PCB-89 | 1 | 4.36e+05 | 1.62 | y | 30:46 | 30.985 | 31 | 1.2989 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 0.9476 | - | n |
| 64 | Unk | CL5-PCB-92 | 1 | 3.69e+06 | 1.57 | y | 31:37 | 250.159 | 250 | 1.2369 | - | n |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 1.74e+07 | 1.62 | y | 32:13 | 1037.228 | 1037 | 1.0909 | - | n |
| 66 | Unk | CL5-PCB-83/99 | 1 | 8.43e+06 | 1.58 | y | 32:49 | 604.061 | 604 | 1.3092 | - | y |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 0.8733 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 1.04e+07 | 1.62 | y | 33:24 | 625.109 | 625 | 1.0977 | - | y |
| 69 | Unk | CL5-PCB-117/116/85 | 1 | 2.66e+06 | 1.53 | y | 34:06 | 154.834 | 155 | 1.0615 | - | n |
| 70 | Unk | CL5-PCB-110/115 | 1 | 2.07e+07 | 1.64 | y | 34:17 | 1062.618 | 1063 | 0.9361 | - | n |
| 71 | Unk | CL5-PCB-82 | 1 | 1.59e+06 | 1.46 | y | 34:36 | 122.289 | 122 | 1.4032 | - | n |
| 72 | Unk | CL5-PCB-111 | 1 | 1.22e+04 | 0.39 | n | 35:02 | 0.613 | 1 | 0.9184 | - | y |
| 73 | Unk | CL5-PCB-120 | 1 | 7.57e+04 | 1.51 | y | 35:31 | 3.502 | 4 | 0.8452 | - | n |
| 74 | Unk | CL5-PCB-108/124 | 1 | 3.01e+05 | 1.33 | y | 36:43 | 15.373 | 15 | 1.8696 | - | y |
| 75 | Unk | CL5-PCB-107 | 1 | 8.27e+05 | 1.44 | y | 36:58 | 39.298 | 39 | 1.7388 | - | y |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 1.6519 | - | n |
| 77 | Unk | CL5-PCB-122 | 1 | 1.30e+05 | 1.69 | y | 37:46 | 7.130 | 7 | 2.0013 | - | y |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 1.9825 | - | n |
| 79 | Unk | CL6-PCB-152 | 1 | 2.29e+04 | 1.86 | n | 32:08 | 1.322 | 1 | 0.3357 | - | n |
| 80 | Unk | CL6-PCB-150 | 1 | 4.20e+04 | 0.87 | n | 32:21 | 2.517 | 3 | 0.3483 | - | y |
| 81 | Unk | CL6-PCB-136 | 1 | 3.08e+06 | 1.25 | y | 32:43 | 181.241 | 181 | 0.3420 | - | n |
| 82 | Unk | CL6-PCB-145 | 1 | 9.34e+03 | 1.24 | y | 33:03 | 0.585 | 1 | 0.3639 | - | y |
| 83 | Unk | CL6-PCB-148 | 1 | 3.16e+04 | 0.83 | n | 34:38 | 2.538 | 3 | 0.4661 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 6.07e+06 | 1.28 | y | 35:16 | 446.757 | 447 | 0.4275 | - | y |
| 85 | Unk | CL6-PCB-144 | 1 | 5.69e+05 | 1.18 | y | 35:50 | 44.200 | 44 | 0.4511 | - | n |
| 86 | Unk | CL6-PCB-147/149 | 1 | 1.09e+07 | 1.25 | y | 36:12 | 855.283 | 855 | 2.8642 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 1 | 4.77e+05 | 1.23 | y | 36:25 | 43.224 | 43 | 3.3168 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 1 | 1.71e+05 | 1.17 | y | 36:51 | 13.844 | 14 | 2.9528 | - | n |
| 89 | Unk | CL6-PCB-131 | 1 | 7.75e+04 | 1.41 | y | 37:02 | 7.215 | 7 | 3.4026 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 3.2874 | - | n |
| 91 | Unk | CL6-PCB-132 | 1 | 3.35e+06 | 1.24 | y | 37:30 | 324.546 | 325 | 3.5463 | - | n |
| 92 | Unk | CL6-PCB-133 | 1 | 1.48e+05 | 1.11 | y | 38:04 | 13.384 | 13 | 3.3136 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 2.6647 | - | n |
| 94 | Unk | CL6-PCB-146 | 1 | 2.05e+06 | 1.29 | y | 38:45 | 141.519 | 142 | 2.5288 | - | n |
| 95 | Unk | CL6-PCB-161 | 0 | * | * | n | NotFnd | * | * | 2.1902 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 1.02e+07 | 1.23 | y | 39:24 | 726.369 | 726 | 2.6149 | - | n |
| 97 | Unk | CL6-PCB-141 | 1 | 1.93e+06 | 1.19 | y | 39:35 | 165.498 | 165 | 3.1342 | - | n |

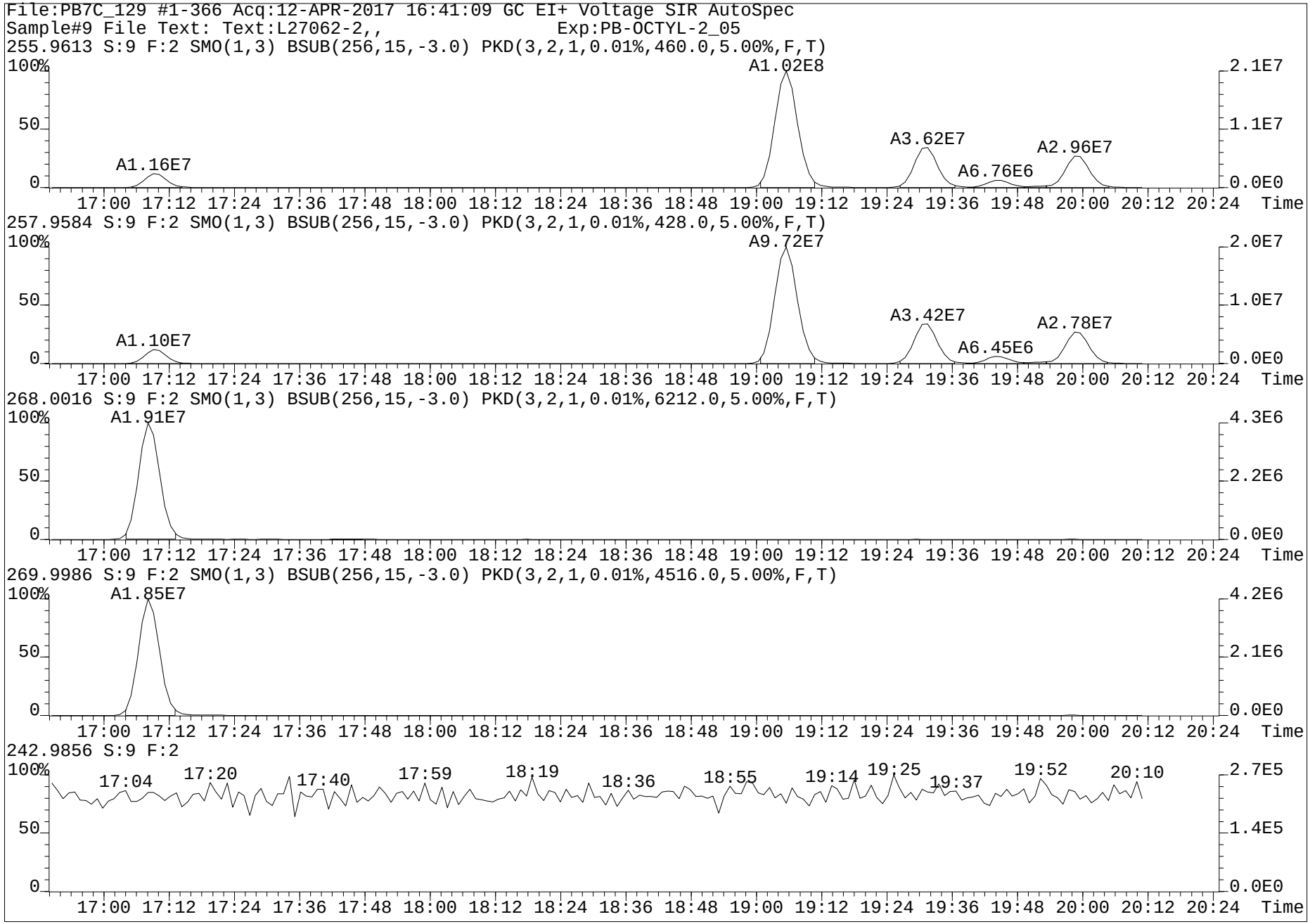
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 1 | 4.16e+05 | 1.28 | y | 40:00 | 41.137 | 41 | 3.6205 | - | n |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 3.4862 | - | n |
| 100 | Unk | CL6-PCB-164 | 1 | 8.96e+05 | 1.05 | n | 40:21 | 57.927 | 58 | 2.3638 | - | n |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 8.34e+06 | 1.26 | y | 40:42 | 662.715 | 663 | 2.9050 | - | n |
| 102 | Unk | CL6-PCB-158 | 1 | 8.41e+05 | 1.17 | y | 41:05 | 51.611 | 52 | 2.2450 | - | n |
| 103 | Unk | CL6-PCB-128/166 | 1 | 8.58e+05 | 1.21 | y | 42:00 | 69.860 | 70 | 2.9783 | - | y |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 2.4081 | - | y |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 2.3886 | - | n |
| 106 | Unk | CL7-PCB-179 | 1 | 1.90e+06 | 1.06 | y | 38:18 | 140.882 | 141 | 0.3028 | - | n |
| 107 | Unk | CL7-PCB-184 | 0 | * | * | n | NotFnd | * | * | 0.2863 | - | n |
| 108 | Unk | CL7-PCB-176 | 1 | 5.41e+05 | 1.01 | y | 39:13 | 41.324 | 41 | 0.3122 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.3328 | - | n |
| 110 | Unk | CL7-PCB-178 | 1 | 5.37e+05 | 1.07 | y | 41:10 | 57.875 | 58 | 0.4402 | - | n |
| 111 | Unk | CL7-PCB-175 | 1 | 8.74e+04 | 0.91 | y | 41:49 | 9.220 | 9 | 0.4312 | - | y |
| 112 | Unk | CL7-PCB-187 | 1 | 3.10e+06 | 1.06 | y | 42:06 | 311.956 | 312 | 0.4104 | - | n |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.3592 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 1 | 1.60e+06 | 1.08 | y | 42:46 | 162.587 | 163 | 0.4153 | - | n |
| 115 | Unk | CL7-PCB-174 | 1 | 2.58e+06 | 1.12 | y | 43:00 | 267.510 | 268 | 0.4236 | - | n |
| 116 | Unk | CL7-PCB-177 | 1 | 1.65e+06 | 1.04 | y | 43:27 | 157.019 | 157 | 0.3891 | - | n |
| 117 | Unk | CL7-PCB-181 | 1 | 8.58e+03 | 0.63 | n | 43:51 | 0.921 | 1 | 0.4386 | - | n |
| 118 | Unk | CL7-PCB-171/173 | 1 | 5.69e+05 | 1.03 | y | 44:06 | 64.805 | 65 | 0.4651 | - | n |
| 119 | Unk | CL7-PCB-172 | 1 | 3.08e+05 | 1.09 | y | 45:49 | 32.981 | 33 | 0.4381 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.3742 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 1 | 4.72e+06 | 1.01 | y | 46:30 | 517.128 | 517 | 0.4542 | - | n |
| 122 | Unk | CL7-PCB-191 | 1 | 1.03e+05 | 1.06 | y | 46:53 | 8.664 | 9 | 0.3451 | - | n |
| 123 | Unk | CL7-PCB-170 | 1 | 1.67e+06 | 1.05 | y | 47:48 | 197.440 | 197 | 0.4883 | - | n |
| 124 | Unk | CL7-PCB-190 | 1 | 4.30e+05 | 1.17 | y | 48:22 | 37.025 | 37 | 0.3516 | - | n |
| 125 | Unk | CL8-PCB-201 | 1 | 1.45e+05 | 0.96 | y | 44:33 | 12.451 | 12 | 0.3024 | - | n |
| 126 | Unk | CL8-PCB-204 | 0 | * | * | n | NotFnd | * | * | 0.3127 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 1 | 2.73e+05 | 0.92 | y | 45:35 | 19.971 | 20 | 0.2569 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 1 | 8.26e+05 | 0.95 | y | 48:34 | 104.171 | 104 | 0.4428 | - | n |
| 129 | Unk | CL8-PCB-196 | 1 | 4.38e+05 | 0.93 | y | 49:14 | 48.901 | 49 | 0.3919 | - | n |
| 130 | Unk | CL8-PCB-203 | 1 | 5.44e+05 | 0.86 | y | 49:27 | 60.528 | 61 | 0.3907 | - | n |
| 131 | Unk | CL8-PCB-195 | 1 | 3.71e+05 | 1.01 | y | 50:50 | 40.207 | 40 | 0.4142 | - | n |
| 132 | Unk | CL8-PCB-194 | 1 | 8.01e+05 | 0.86 | y | 53:18 | 92.747 | 93 | 0.4430 | - | n |
| 133 | Unk | CL9-PCB-207 | 1 | 2.87e+04 | 0.87 | y | 51:34 | 3.210 | 3 | 0.6291 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 5.38e+07 | 3.19 | y | 11:29 | 858.530 | 0 | 2.3392 | 42.9 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 5.59e+07 | 3.12 | y | 13:43 | 924.648 | 0 | 2.4282 | 46.2 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 3.90e+07 | 1.56 | y | 13:58 | 977.206 | 0 | 1.2134 | 48.8 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 8.12e+07 | 1.60 | y | 20:03 | 1233.242 | 0 | 0.7362 | 61.6 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 3.76e+07 | 1.03 | y | 17:08 | 1126.627 | 0 | 3.5174 | 56.3 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 6.70e+07 | 1.06 | y | 27:21 | 1378.883 | 0 | 5.0233 | 68.9 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 5.60e+07 | 0.78 | y | 20:19 | 1429.552 | 0 | 0.3878 | 71.5 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 5.01e+07 | 0.78 | y | 34:24 | 1351.815 | 0 | 0.6356 | 67.6 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 4.97e+07 | 0.77 | y | 34:59 | 1342.704 | 0 | 0.6354 | 67.1 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 4.20e+07 | 1.59 | y | 26:02 | 1396.660 | 0 | 0.1238 | 69.8 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 3.65e+07 | 1.63 | y | 37:04 | 1307.772 | 0 | 1.5851 | 65.4 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 3.61e+07 | 1.60 | y | 37:25 | 1322.870 | 0 | 1.6203 | 66.1 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 3.52e+07 | 1.65 | y | 37:58 | 1318.163 | 0 | 1.6554 | 65.9 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 3.69e+07 | 1.57 | y | 38:38 | 1370.065 | 0 | 1.6405 | 68.5 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 2.93e+07 | 1.61 | y | 41:53 | 1248.759 | 0 | 1.8848 | 62.4 | n |

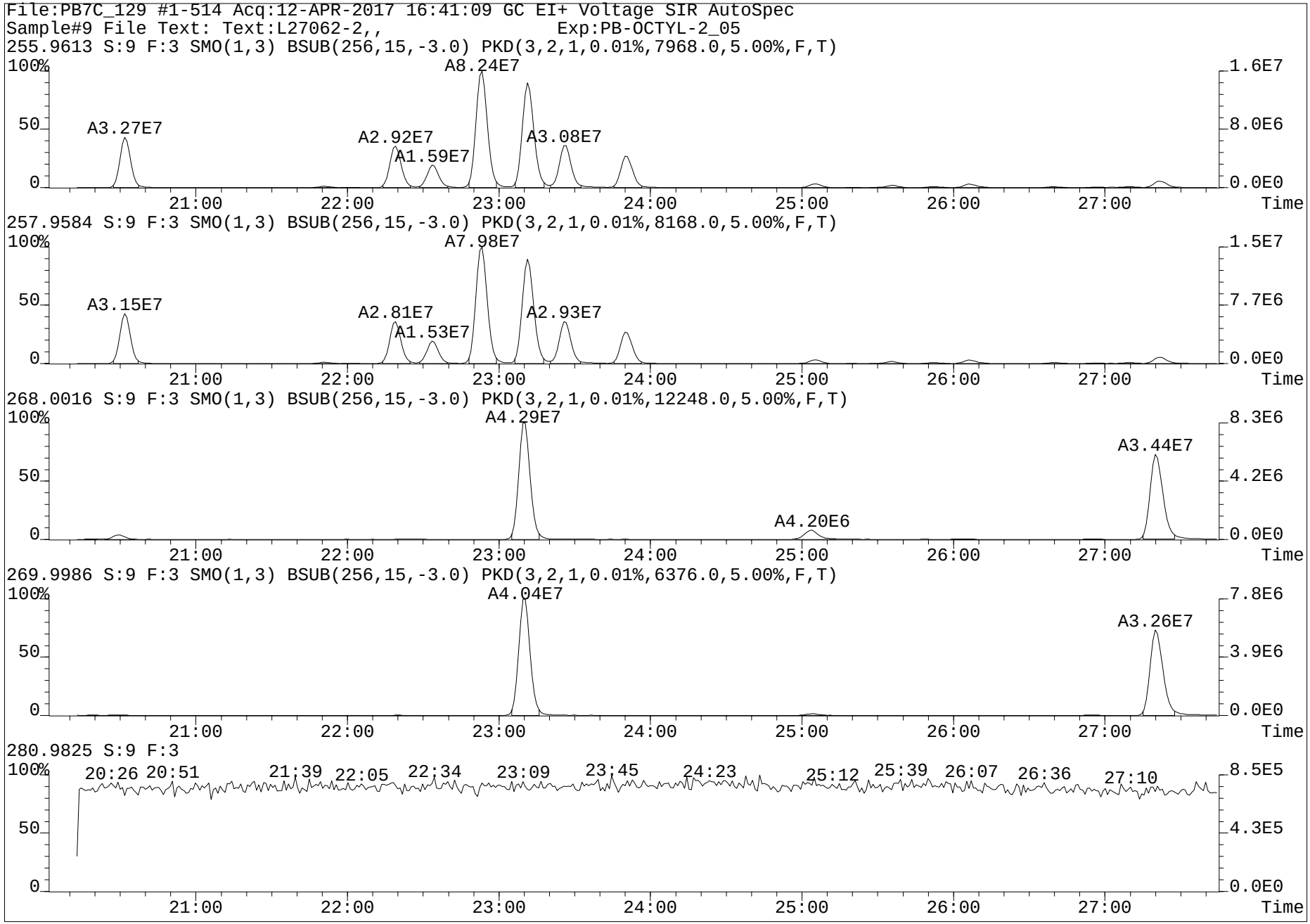
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 3.90e+07 | 1.27 | y | 31:58 | 1721.157 | 0 | 0.2290 | 86.0 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 2.33e+07 | 1.27 | y | 43:49 | 1354.967 | 0 | 0.2773 | 67.7 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 4.66e+07 | 1.26 | y | 45:02 | 2736.574 | 0 | 0.2796 | 68.4 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 2.33e+07 | 1.27 | y | 48:27 | 1382.766 | 0 | 0.2824 | 69.1 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 3.02e+07 | 1.07 | y | 37:56 | 1547.696 | 0 | 0.2789 | 77.4 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 1.88e+07 | 1.05 | y | 46:29 | 1419.028 | 0 | 0.4106 | 70.9 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 1.56e+07 | 1.02 | y | 47:48 | 1450.745 | 0 | 0.5039 | 72.5 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 2.38e+07 | 0.93 | y | 43:33 | 1429.733 | 0 | 0.2547 | 71.5 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 2.04e+07 | 0.86 | y | 53:47 | 1387.715 | 0 | 0.3615 | 69.4 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 1.78e+07 | 0.78 | y | 50:34 | 1250.761 | 0 | 0.2683 | 62.5 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 1.38e+07 | 0.78 | y | 55:35 | 1338.563 | 0 | 0.3697 | 66.9 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.30e+08 | 1.60 | y | 16:00 | 117.228 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 5.81e+07 | 0.79 | y | 25:04 | 99.950 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 4.31e+07 | 1.61 | y | 32:12 | 91.795 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 2.94e+07 | 1.26 | y | 40:39 | 74.754 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 2.07e+07 | 0.92 | y | 53:17 | 71.560 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 8.33e+07 | 1.06 | y | 23:10 | 1628.234 | 0 | 4.7708 | 81.4 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 3.88e+07 | 1.62 | y | 35:02 | 1441.621 | 0 | 0.2258 | 72.1 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 2.17e+07 | 1.05 | y | 41:08 | 1667.906 | 0 | 0.4074 | 83.4 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 5.60e+07 | 0.78 | y | 20:19 | 1429.552 | 0 | 0.3878 | 71.5 | n |
| 169 | Unk | CL7-PCB-189 | 1 | 8.17e+04 | 1.18 | y | 51:06 | 6.711 | 0 | 0.5133 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 2.37e+07 | 1.04 | y | 51:05 | 1323.820 | 0 | 0.7898 | 66.2 | n |
| 171 | Unk | CL10-PCB-209 | 1 | 3.70e+04 | 0.86 | n | 57:17 | 4.103 | 0 | 0.3706 | - | y |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 1.73e+07 | 1.17 | y | 57:16 | 1377.282 | 0 | 0.2934 | 68.8 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

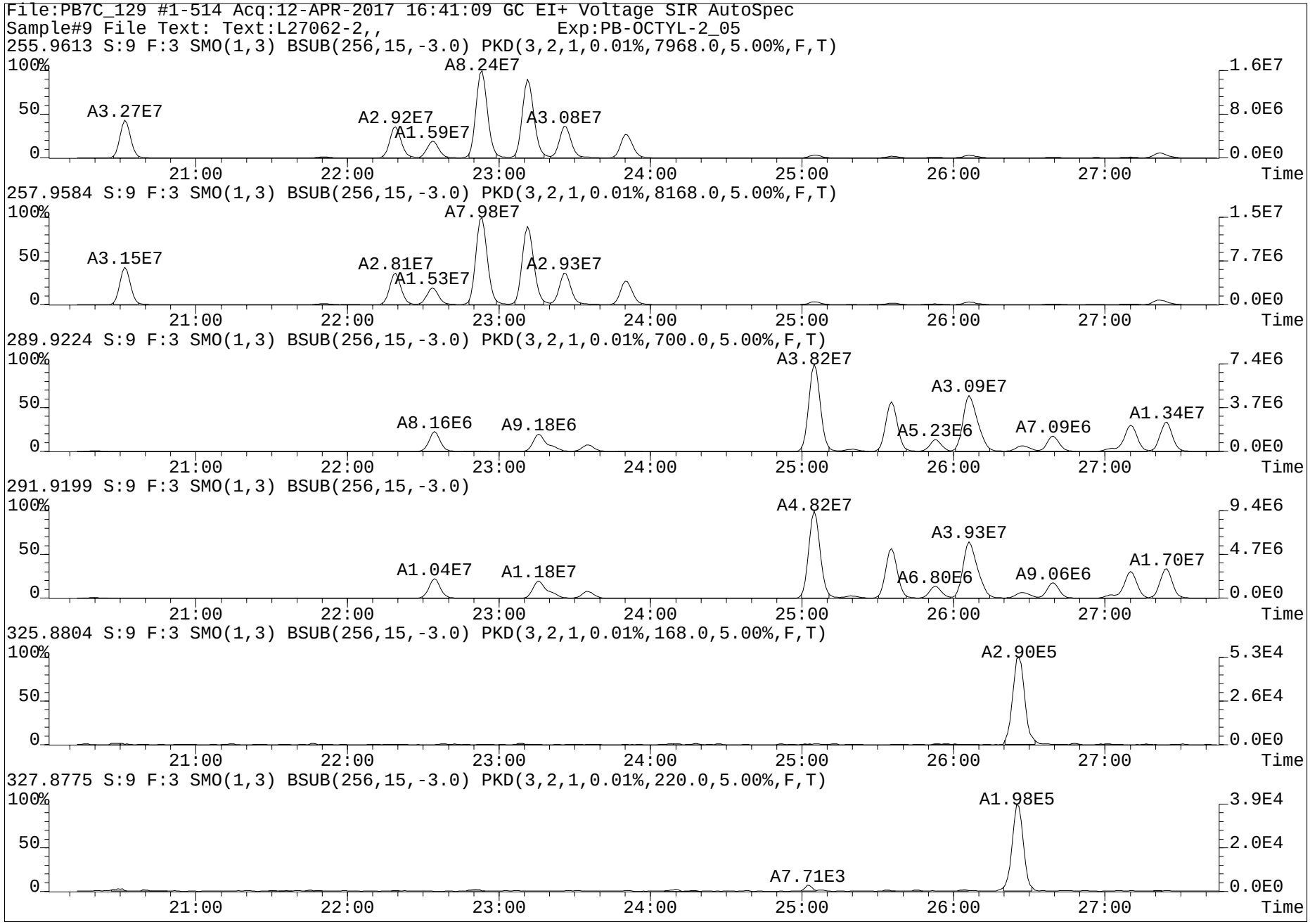

File:PB7C_129 #1-184 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
188.0393 S:9 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,768.0,5.00%,F,T)
A1.61E7
A2.19E6
190.0363 S:9 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,576.0,5.00%,F,T)
A5.09E6
A6.84E5
200.0795 S:9 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1752.0,5.00%,F,T)
A4.10E7
A4.23E7
202.0766 S:9 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11656.0,5.00%,F,T)
A1.29E7
A1.35E7
218.9856 S:9
11:05 11:19 11:37 11:50 12:13 12:24 12:45 12:58 13:15 13:34 13:45
100%
50
0
4.8E6
2.4E6
0.0E0
1.6E6
7.8E5
1.2E7
6.2E6
3.9E6
2.0E6
1.1E6
5.3E5
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

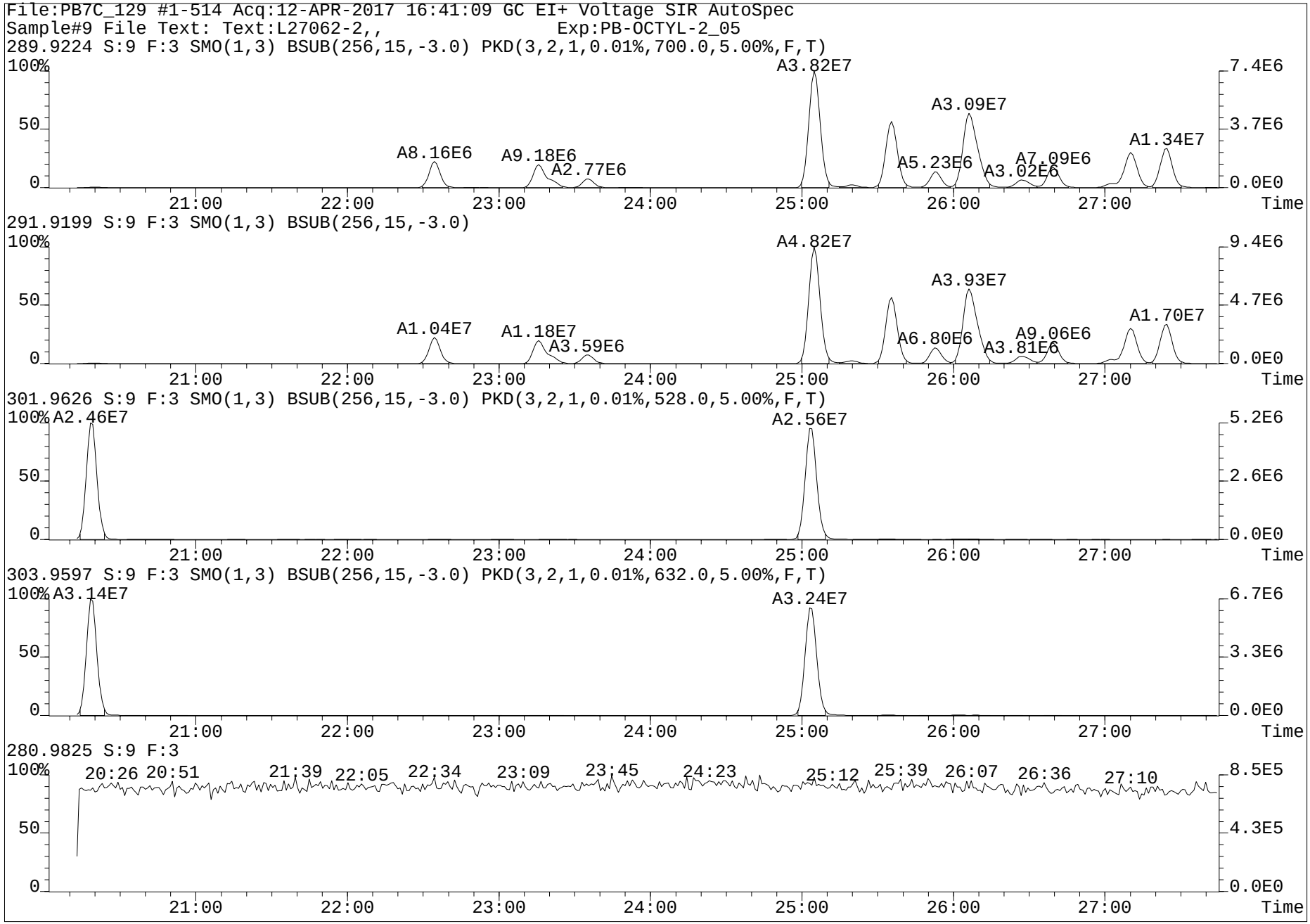

File:PB7C_129 #1-366 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
222.0003 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3336.0,5.00%,F,T)
A5.17E7
A6.52E7
A3.01E7
A3.57E6
A7.39E6
A9.65E6
223.9974 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1368.0,5.00%,F,T)
A3.33E7
A4.21E7
A1.94E7
A2.29E6
A4.79E6
A6.07E6
234.0406 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3168.0,5.00%,F,T)
A8.02E7
A2.38E7
A4.99E7
236.0376 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1256.0,5.00%,F,T)
A5.01E7
A1.52E7
A3.12E7
242.9856 S:9 F:2
14:02 14:26 14:51 15:19 15:41 16:09 16:30 16:50 17:20 17:51 18:19 18:55 19:25 19:37 19:52
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
1.4E7 7.2E6 0.0E0
9.2E6 4.6E6 0.0E0
1.8E7 9.1E6 0.0E0
1.1E7 5.7E6 0.0E0
2.7E5 1.4E5 0.0E0

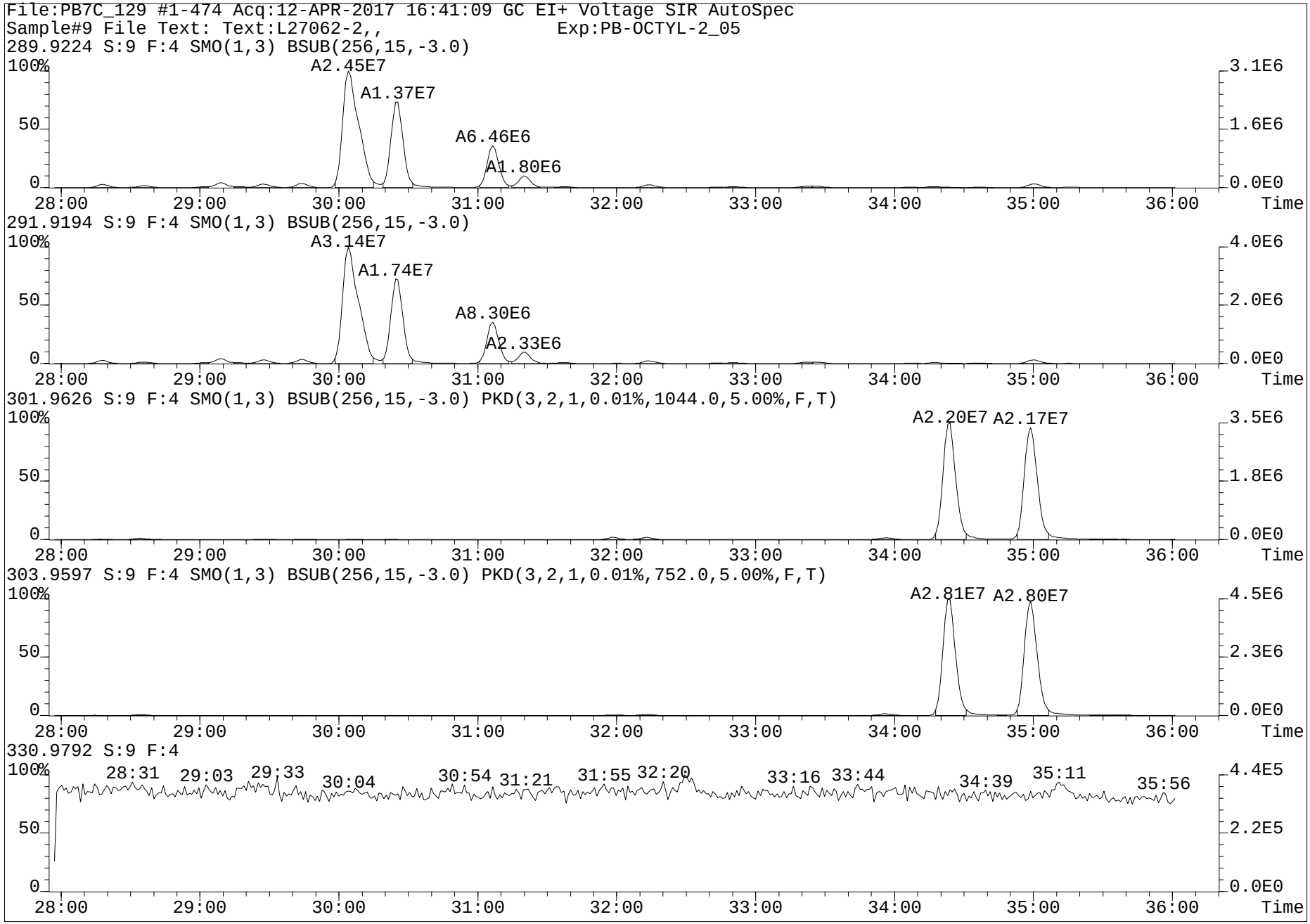

File:PB7C_129 #1-366 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
222.0003 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3336.0,5.00%,F,T)
A5.17E7
A6.52E7
A3.01E7
A3.57E6
A7.39E6
A9.65E6
223.9974 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1368.0,5.00%,F,T)
A3.33E7
A4.21E7
A1.94E7
A2.29E6
A4.79E6
A6.07E6
255.9613 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,460.0,5.00%,F,T)
A1.02E8
A3.62E7
A2.96E7
A1.16E7
A6.76E6
257.9584 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,428.0,5.00%,F,T)
A9.72E7
A3.42E7
A1.10E7
A6.45E6
Time

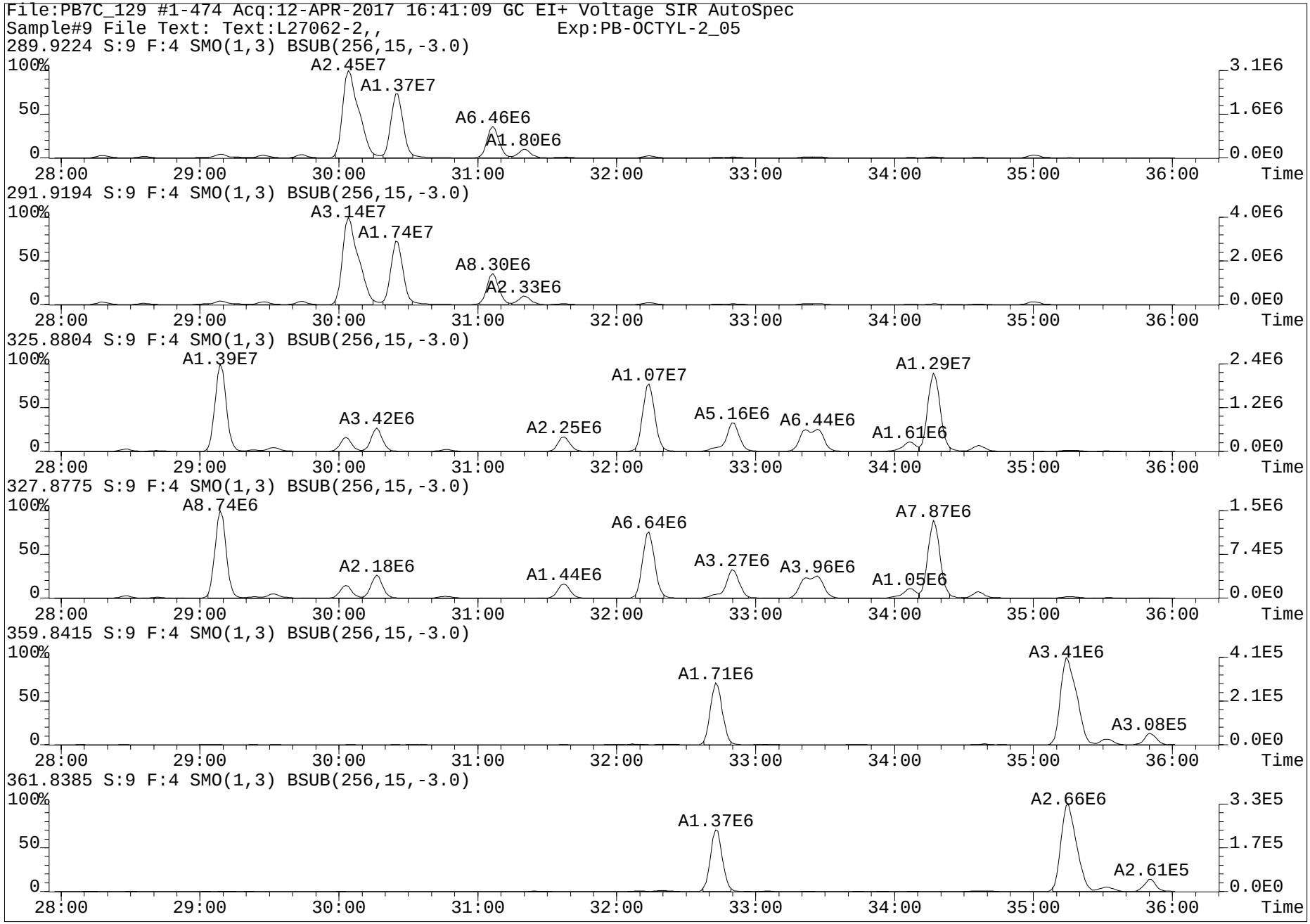

File:PB7C_129 #1-366 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
255.9613 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,460.0,5.00%,F,T)
A1.16E7
A1.02E8
A3.62E7
A6.76E6
A2.96E7
257.9584 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,428.0,5.00%,F,T)
A1.10E7
A9.72E7
A3.42E7
A6.45E6
A2.78E7
268.0016 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6212.0,5.00%,F,T)
A1.91E7
269.9986 S:9 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4516.0,5.00%,F,T)
A1.85E7
242.9856 S:9 F:2
17:04
17:20
17:40
17:59
18:19
18:36
18:55
19:14
19:25
19:37
19:52
20:10
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
2.1E7
1.1E7
0.0E0
2.0E7
1.0E7
4.3E6
2.2E6
4.2E6
2.1E6
2.7E5
1.4E5

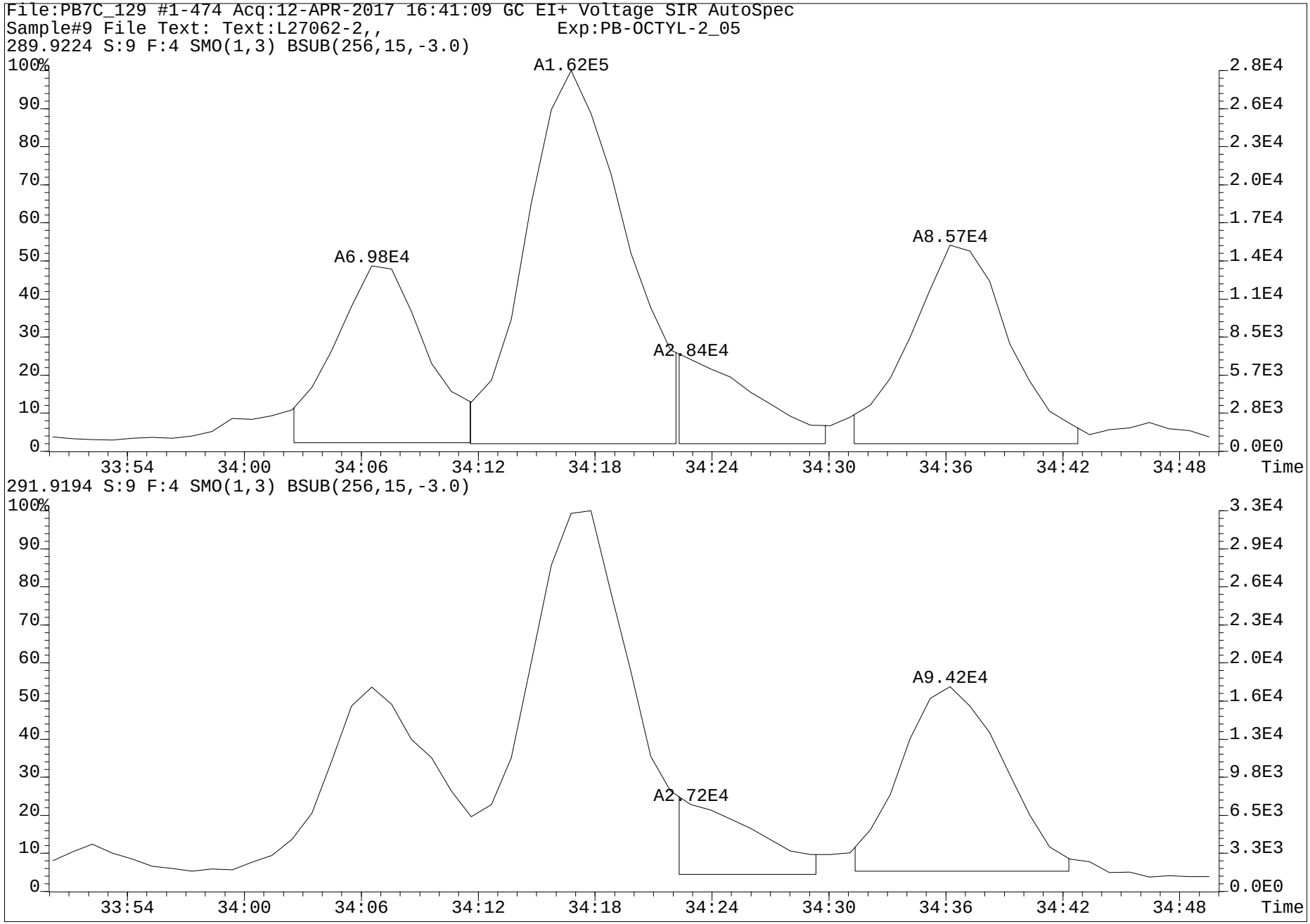

File:PB7C_129 #1-514 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
255.9613 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,7968.0,5.00%,F,T)
A8.24E7
A3.27E7
A2.92E7
A1.59E7
A3.08E7
257.9584 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8168.0,5.00%,F,T)
A7.98E7
A3.15E7
A2.81E7
A1.53E7
A2.93E7
268.0016 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12248.0,5.00%,F,T)
A4.29E7
A3.44E7
A4.20E6
269.9986 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6376.0,5.00%,F,T)
A4.04E7
A3.26E7
280.9825 S:9 F:3
20:26 20:51 21:39 22:05 22:34 23:09 23:45 24:23 25:12 25:39 26:07 26:36 27:10
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
1.6E7 8.0E6 0.0E0
1.5E7 7.7E6 0.0E0
8.3E6 4.2E6 0.0E0
7.8E6 3.9E6 0.0E0
8.5E5 4.3E5 0.0E0

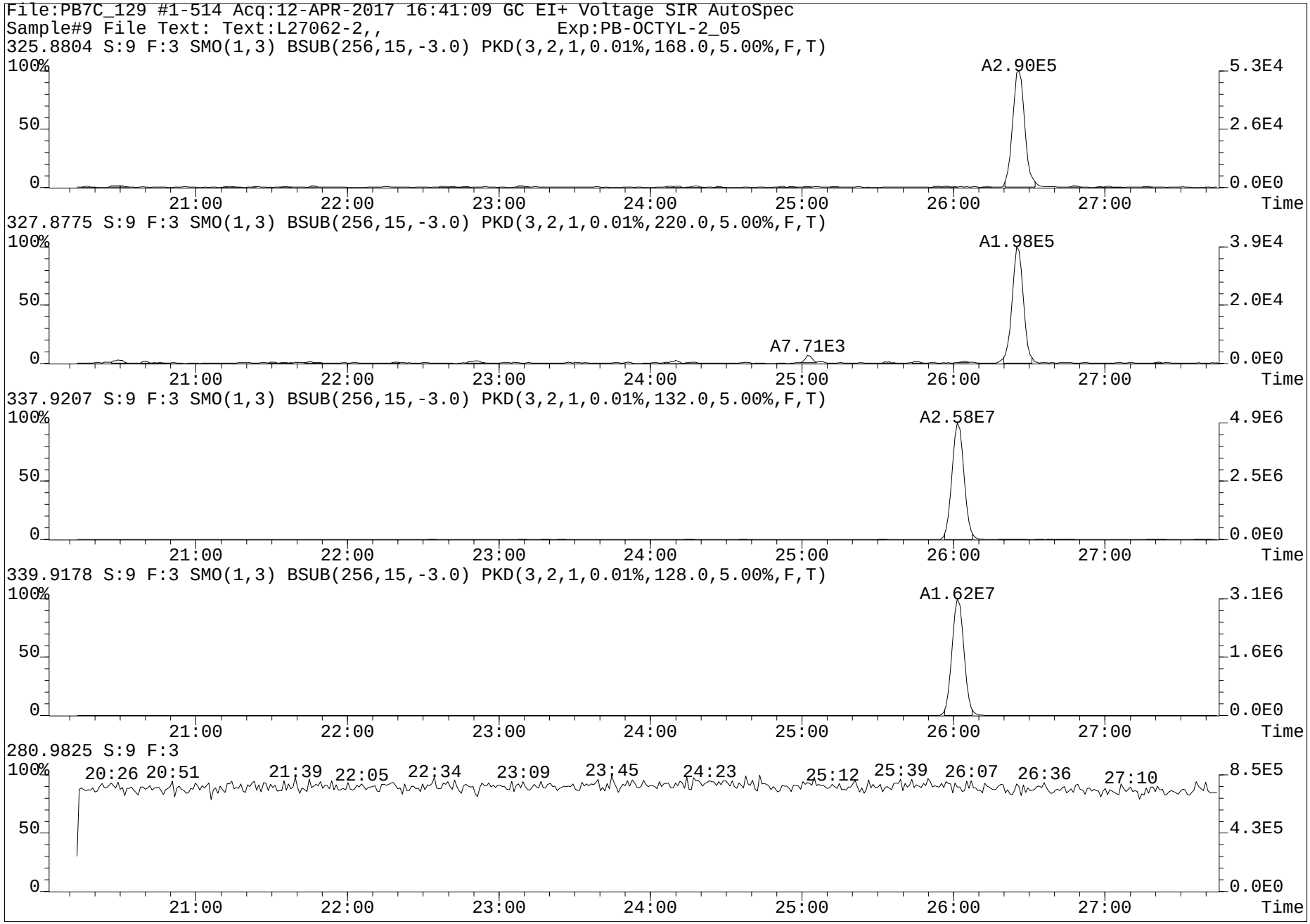

File:PB7C_129 #1-514 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
255.9613 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,7968.0,5.00%,F,T)
A8.24E7
A3.27E7
A2.92E7
A1.59E7
A3.08E7
257.9584 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8168.0,5.00%,F,T)
A7.98E7
A3.15E7
A2.81E7
A1.53E7
A2.93E7
289.9224 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,700.0,5.00%,F,T)
A3.82E7
A3.09E7
A8.16E6
A9.18E6
A5.23E6
A7.09E6
A1.34E7
291.9199 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0)
A4.82E7
A3.93E7
A1.04E7
A1.18E7
A6.80E6
A9.06E6
A1.70E7
325.8804 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A2.90E5
327.8775 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A1.98E5
A7.71E3
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.6E7
8.0E6
0.0E0
1.5E7
7.7E6
7.4E6
3.7E6
9.4E6
4.7E6
5.3E4
2.6E4
3.9E4
2.0E4

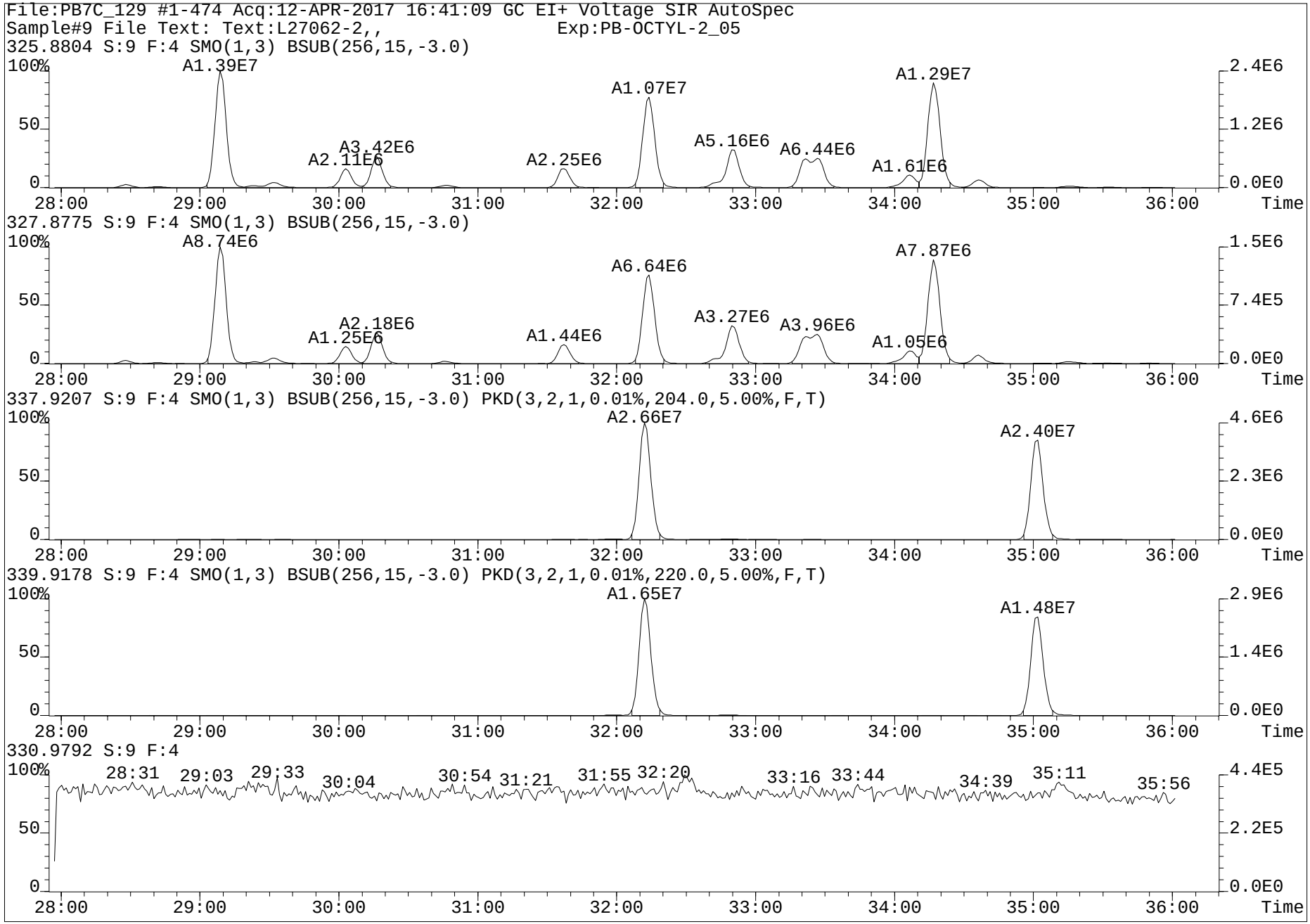

File:PB7C_129 #1-514 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
289.9224 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,700.0,5.00%,F,T)
A3.82E7
A3.09E7
A8.16E6
A9.18E6
A2.77E6
A5.23E6
A3.02E6
A7.09E6
A1.34E7
7.4E6
3.7E6
0.0E0
291.9199 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0)
A4.82E7
A3.93E7
A1.04E7
A1.18E7
A3.59E6
A6.80E6
A3.81E6
A9.06E6
A1.70E7
9.4E6
4.7E6
0.0E0
301.9626 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,528.0,5.00%,F,T)
A2.46E7
A2.56E7
5.2E6
2.6E6
0.0E0
303.9597 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,632.0,5.00%,F,T)
A3.14E7
A3.24E7
6.7E6
3.3E6
0.0E0
280.9825 S:9 F:3
20:26 20:51 21:39 22:05 22:34 23:09 23:45 24:23 25:12 25:39 26:07 26:36 27:10
8.5E5
4.3E5
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

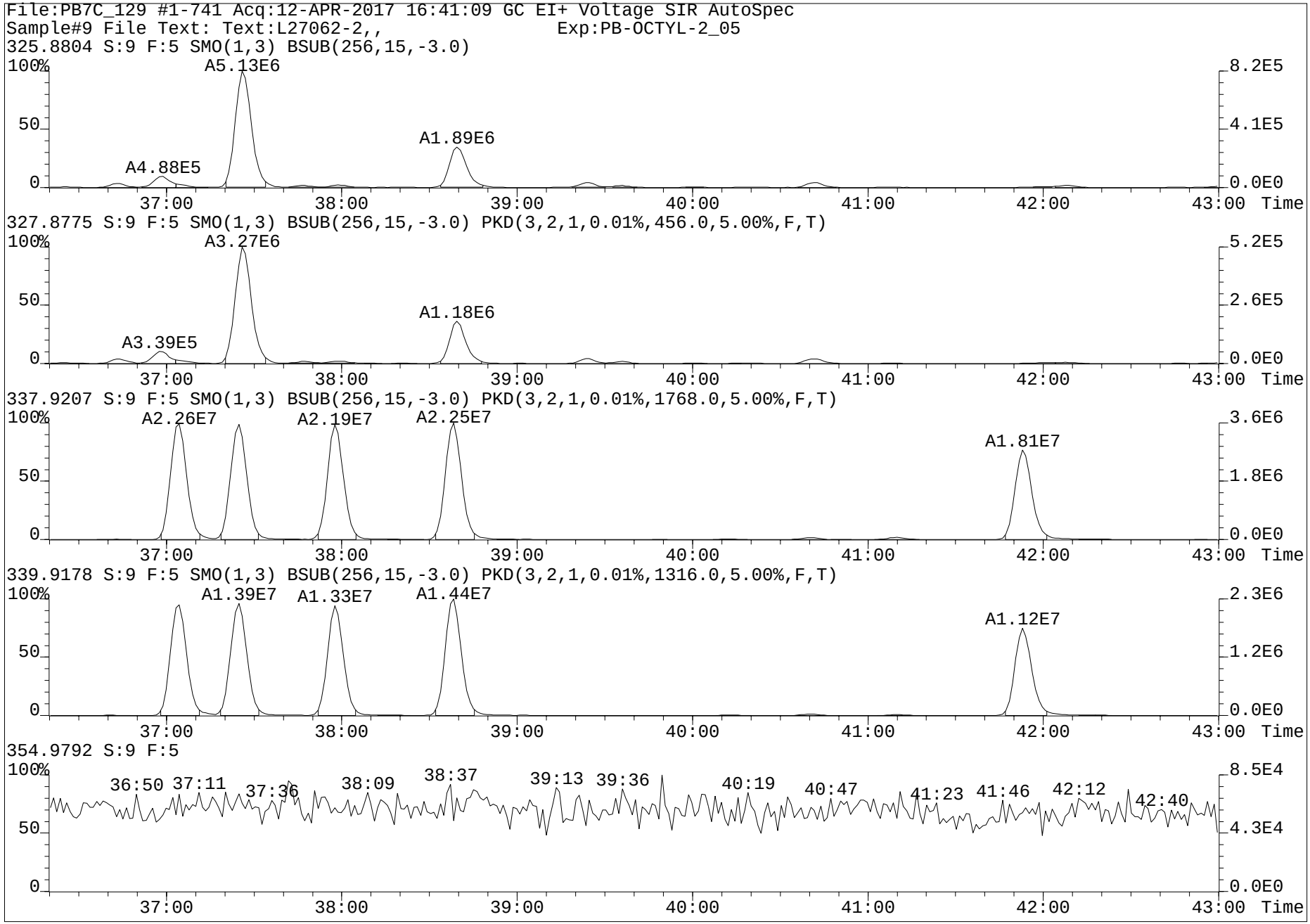

File:PB7C_129 #1-474 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
289.9224 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.45E7
A1.37E7
A6.46E6
A1.80E6
291.9194 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.14E7
A1.74E7
A8.30E6
A2.33E6
301.9626 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1044.0,5.00%,F,T)
A2.20E7
A2.17E7
303.9597 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,752.0,5.00%,F,T)
A2.81E7
A2.80E7
330.9792 S:9 F:4
28:31
29:03
29:33
30:04
30:54
31:21
31:55
32:20
33:16
33:44
34:39
35:11
35:56
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.1E6
1.6E6
0.0E0
4.0E6
2.0E6
3.5E6
1.8E6
4.5E6
2.3E6
4.4E5
2.2E5

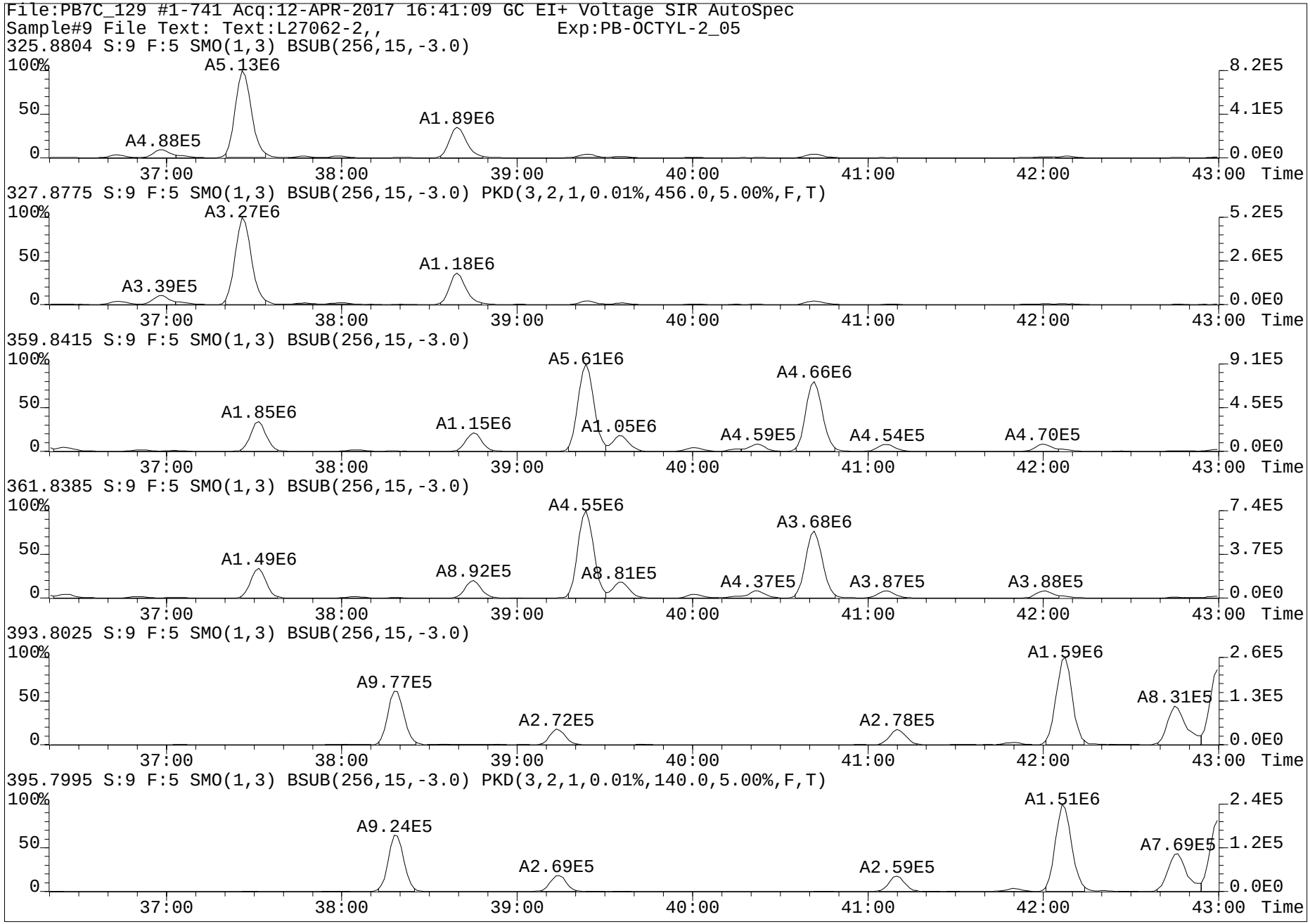

File:PB7C_129 #1-474 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
289.9224 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.45E7
A1.37E7
A6.46E6
A1.80E6
291.9194 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.14E7
A1.74E7
A8.30E6
A2.33E6
325.8804 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.39E7
A3.42E6
A2.25E6
A1.07E7
A5.16E6
A6.44E6
A1.29E7
A1.61E6
327.8775 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A8.74E6
A2.18E6
A1.44E6
A6.64E6
A3.27E6
A3.96E6
A7.87E6
A1.05E6
359.8415 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.71E6
A3.41E6
A3.08E5
361.8385 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.37E6
A2.66E6
A2.61E5
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.1E6
1.6E6
0.0E0
4.0E6
2.0E6
2.4E6
1.2E6
1.5E6
7.4E5
4.1E5
2.1E5
3.3E5
1.7E5

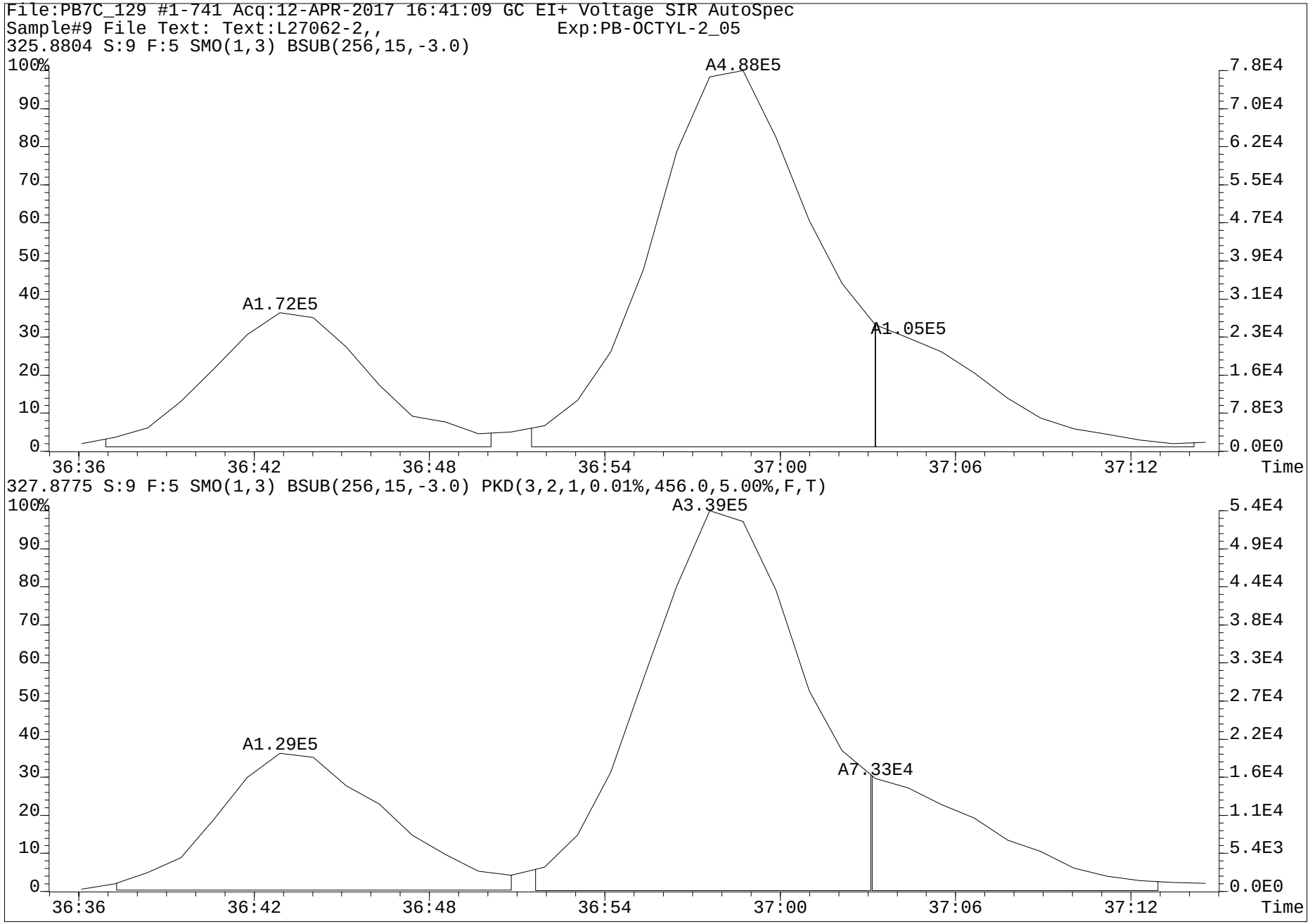

File:PB7C_129 #1-474 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
289.9224 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.62E5
A6.98E4
A8.57E4
A2.84E4
291.9194 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A9.42E4
A2.72E4
Time

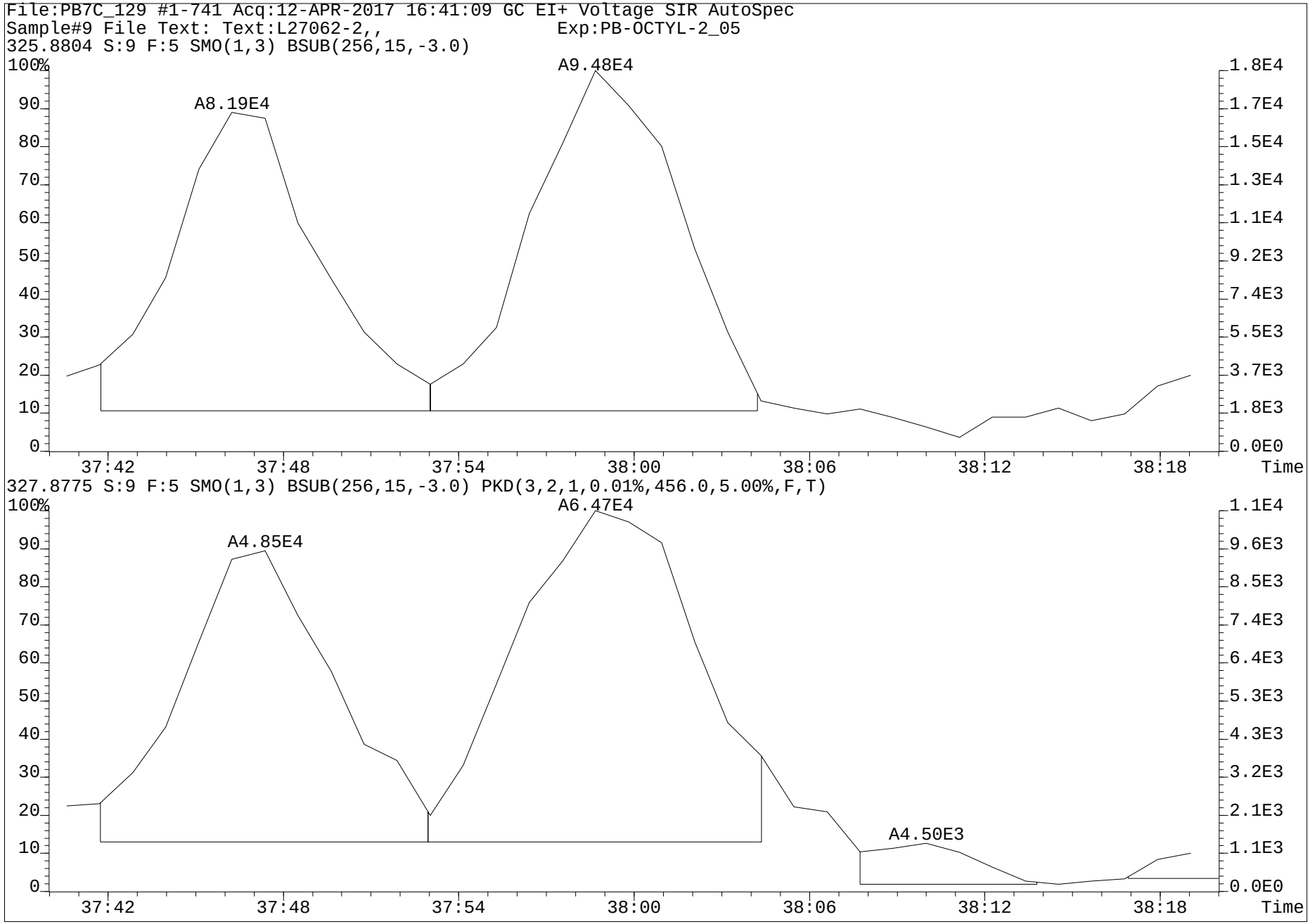

File:PB7C_129 #1-514 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A2.90E5
327.8775 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A1.98E5
A7.71E3
337.9207 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.58E7
339.9178 S:9 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A1.62E7
280.9825 S:9 F:3
20:26 20:51 21:39 22:05 22:34 23:09 23:45 24:23 25:12 25:39 26:07 26:36 27:10
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
5.3E4 2.6E4 0.0E0
3.9E4 2.0E4 0.0E0
4.9E6 2.5E6 0.0E0
3.1E6 1.6E6 0.0E0
8.5E5 4.3E5 0.0E0

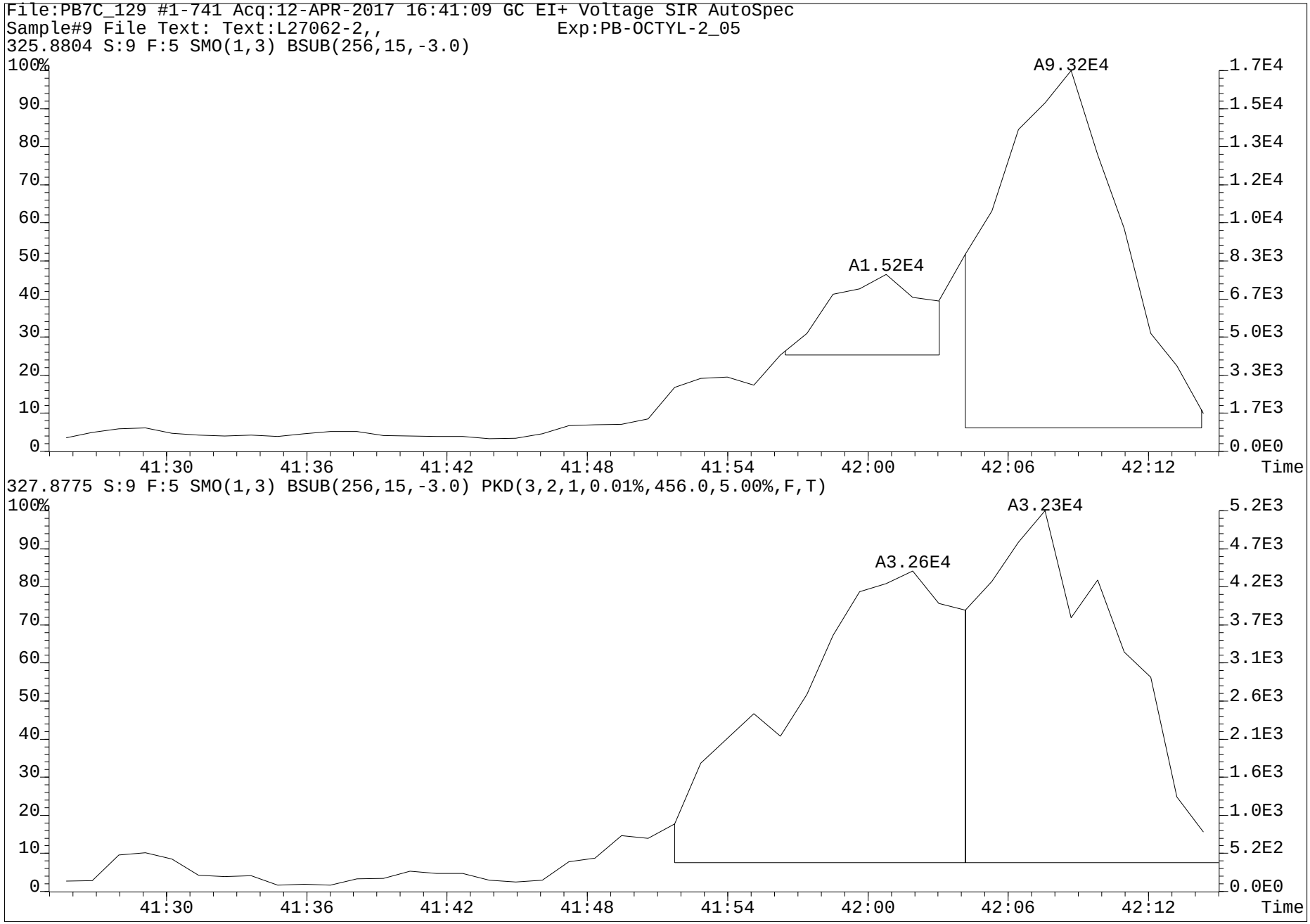

File:PB7C_129 #1-474 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.39E7
A2.11E6
A3.42E6
A2.25E6
A1.07E7
A5.16E6
A6.44E6
A1.61E6
A1.29E7
327.8775 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A8.74E6
A1.25E6
A2.18E6
A1.44E6
A6.64E6
A3.27E6
A3.96E6
A1.05E6
A7.87E6
337.9207 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,204.0,5.00%,F,T)
A2.66E7
A2.40E7
339.9178 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A1.65E7
A1.48E7
330.9792 S:9 F:4
28:31
29:03
29:33
30:04
30:54
31:21
31:55
32:20
33:16
33:44
34:39
35:11
35:56
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
2.4E6
1.2E6
0.0E0
1.5E6
7.4E5
4.6E6
2.3E6
2.9E6
1.4E6
4.4E5
2.2E5

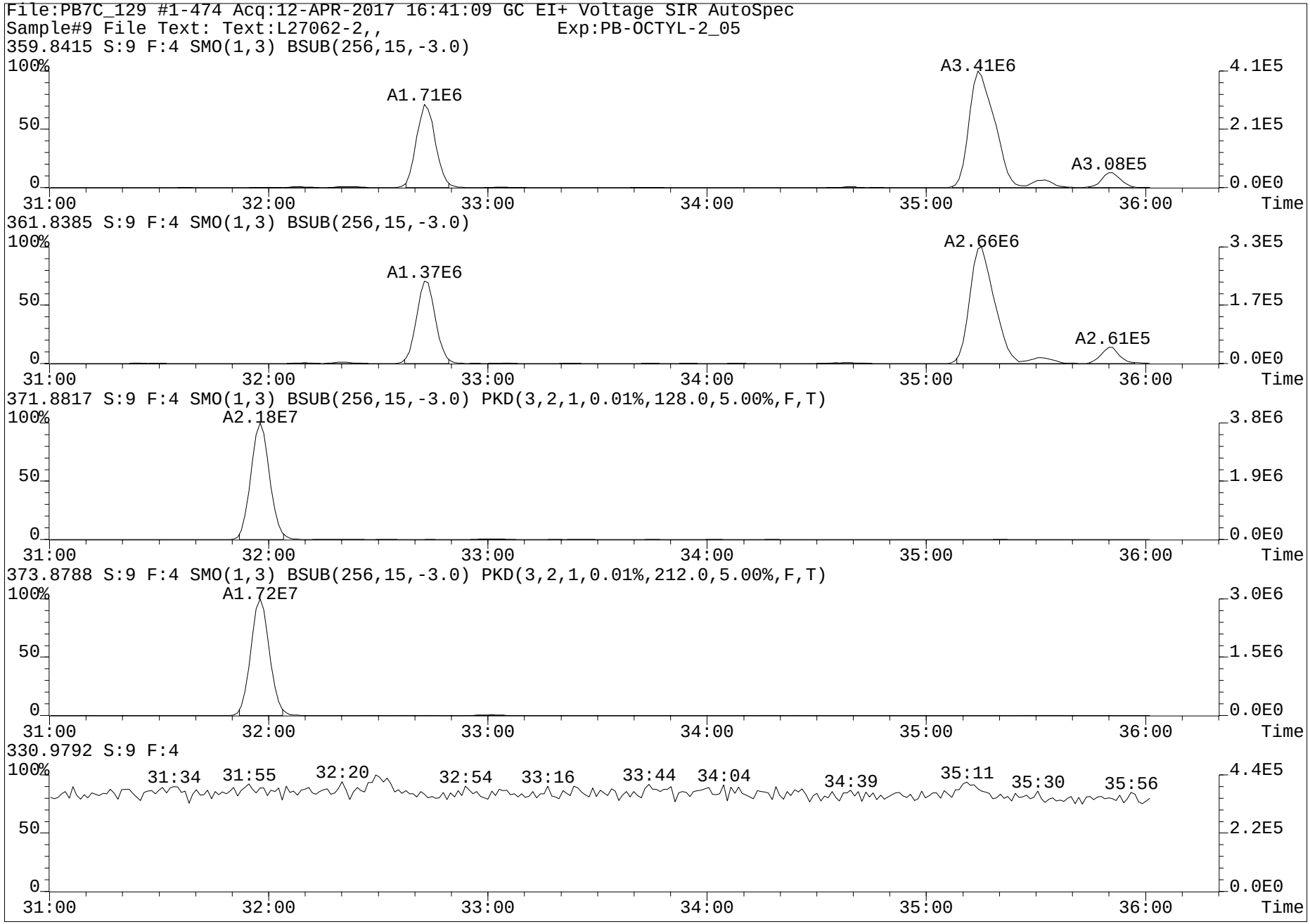

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.13E6
A1.89E6
A4.88E5
8.2E5
4.1E5
0.0E0
327.8775 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A3.27E6
A1.18E6
A3.39E5
5.2E5
2.6E5
0.0E0
337.9207 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1768.0,5.00%,F,T)
A2.26E7
A2.19E7
A2.25E7
A1.81E7
3.6E6
1.8E6
0.0E0
339.9178 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1316.0,5.00%,F,T)
A1.39E7
A1.33E7
A1.44E7
A1.12E7
2.3E6
1.2E6
0.0E0
354.9792 S:9 F:5
36:50 37:11 37:36 38:09 38:37 39:13 39:36 40:19 40:47 41:23 41:46 42:12 42:40
8.5E4
4.3E4
0.0E0
100%
50
0
37:00 38:00 39:00 40:00 41:00 42:00 43:00 Time

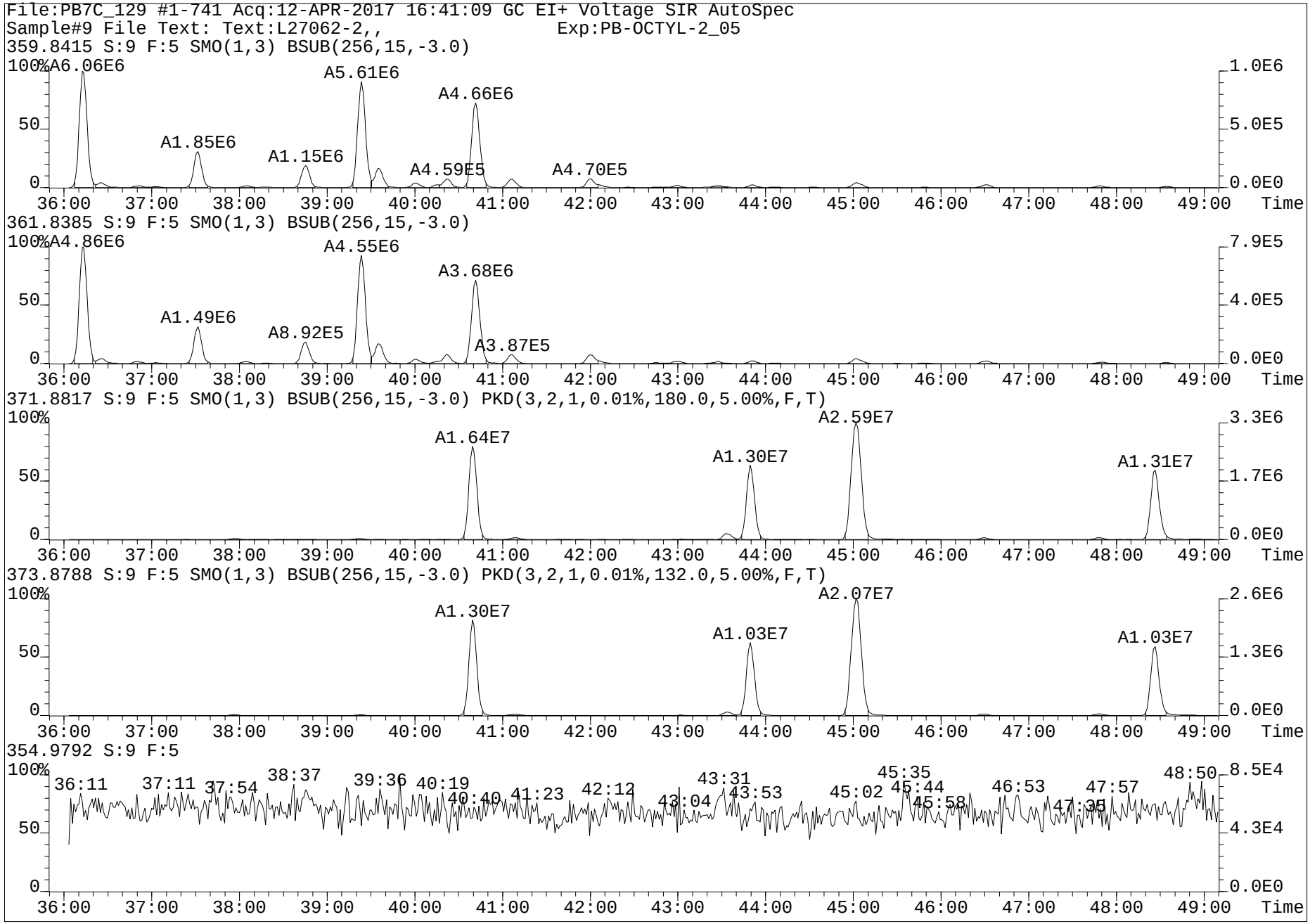

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.13E6
A1.89E6
A4.88E5
327.8775 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A3.27E6
A1.18E6
A3.39E5
359.8415 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.61E6
A4.66E6
A1.85E6
A1.15E6
A1.05E6
A4.59E5
A4.54E5
A4.70E5
361.8385 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A4.55E6
A3.68E6
A1.49E6
A8.92E5
A8.81E5
A4.37E5
A3.87E5
A3.88E5
393.8025 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.59E6
A9.77E5
A8.31E5
A2.72E5
A2.78E5
395.7995 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A1.51E6
A9.24E5
A7.69E5
A2.69E5
A2.59E5
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

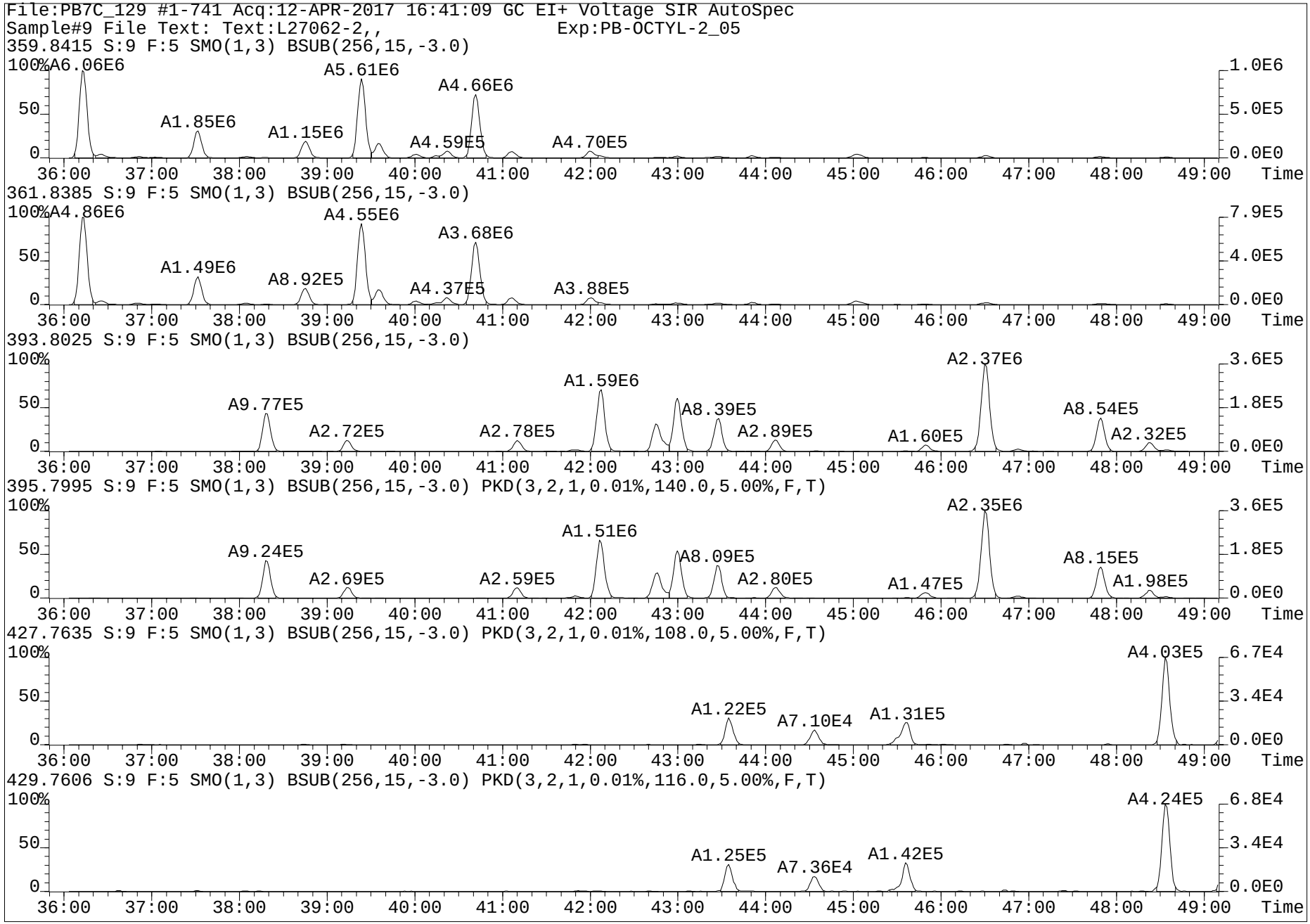

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A4.88E5
A1.72E5
A1.05E5
Time
327.8775 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A3.39E5
A1.29E5
A7.33E4
Time

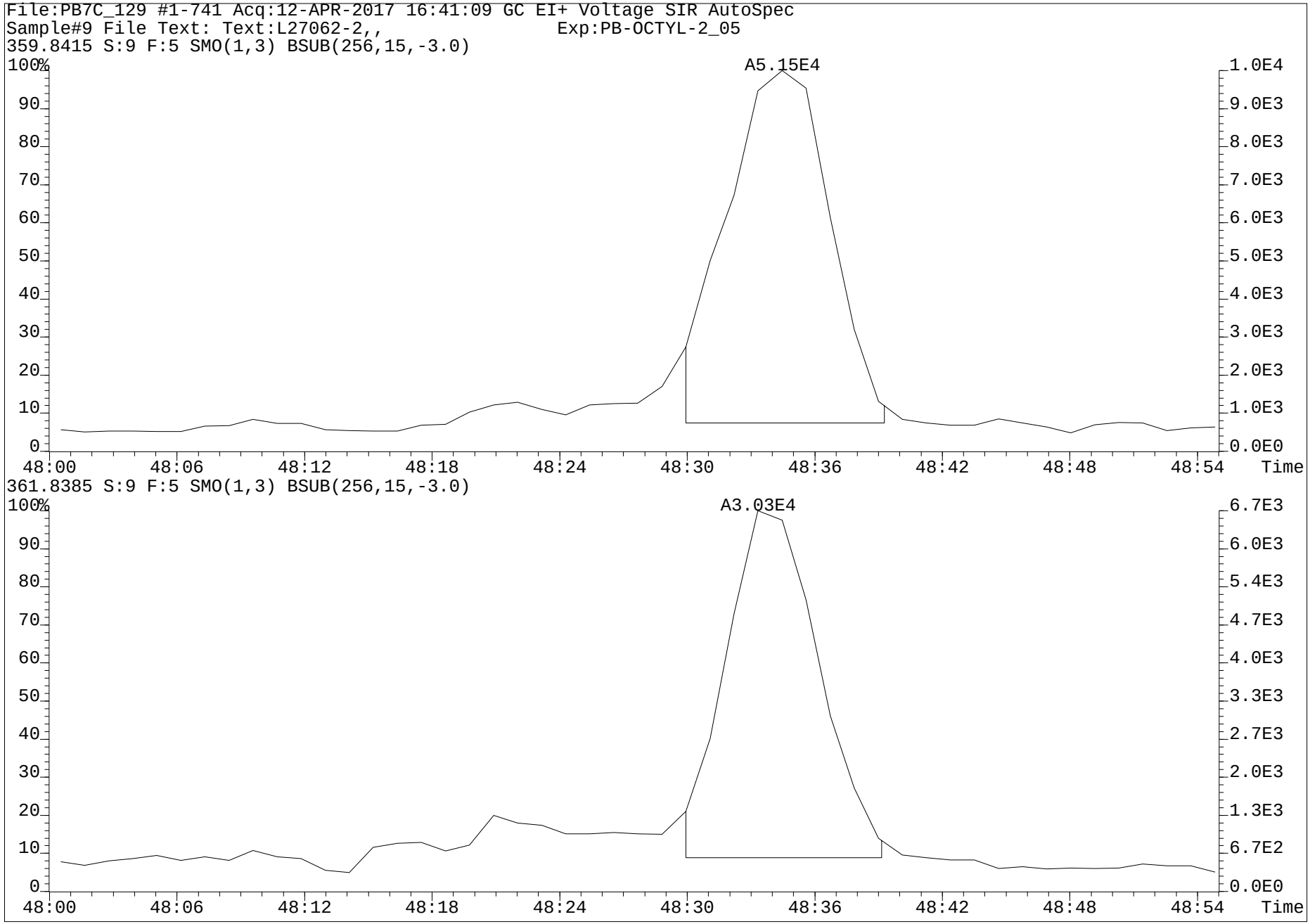

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A8.19E4
A9.48E4
327.8775 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A4.85E4
A6.47E4
A4.50E3
100%
90
80
70
60
50
40
30
20
10
0
1.8E4
1.7E4
1.5E4
1.3E4
1.1E4
9.2E3
7.4E3
5.5E3
3.7E3
1.8E3
0.0E0
1.1E4
9.6E3
8.5E3
7.4E3
6.4E3
5.3E3
4.3E3
3.2E3
2.1E3
1.1E3
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time

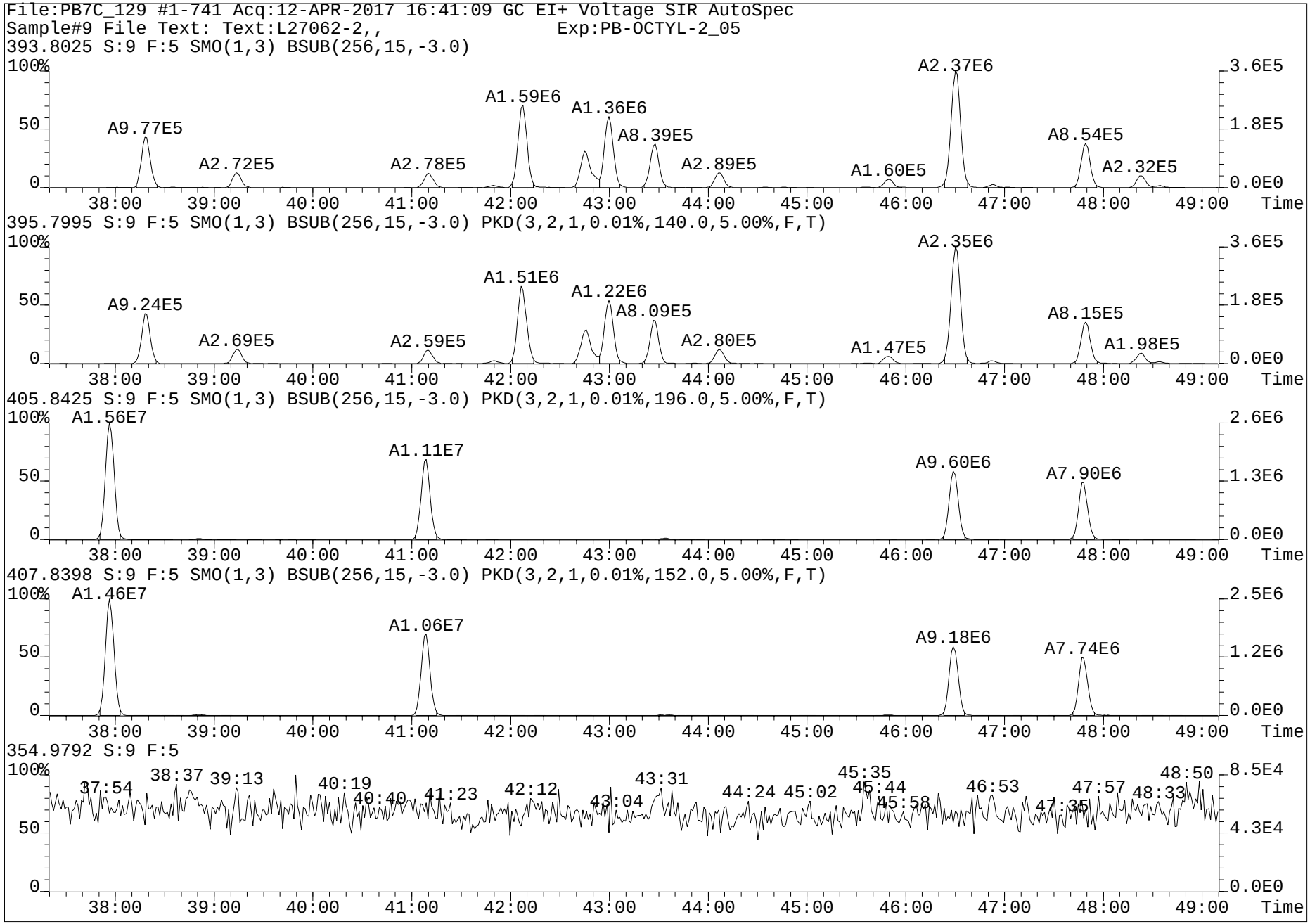

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
325.8804 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.32E4
A1.52E4
327.8775 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A3.23E4
A3.26E4
Time

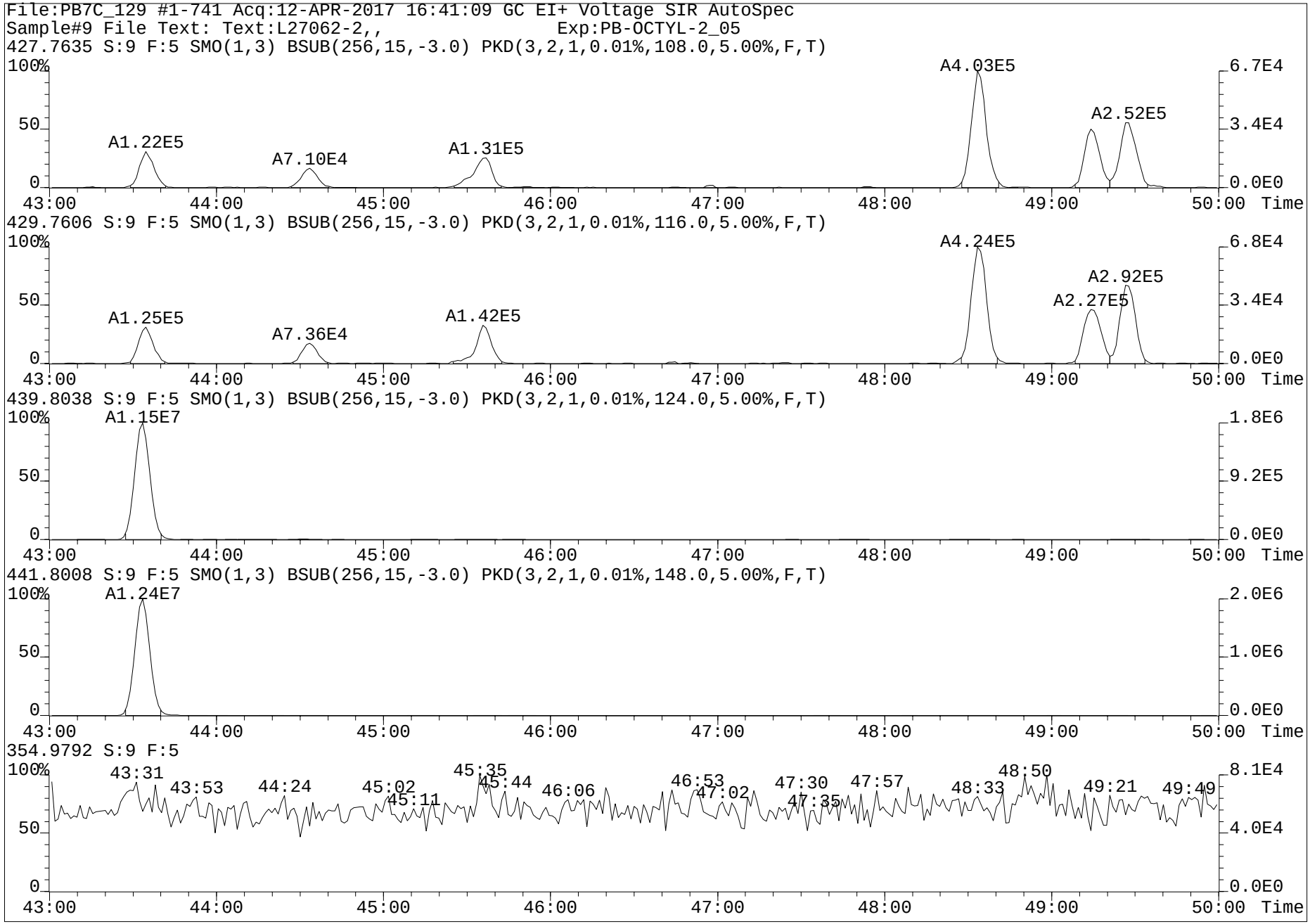

File:PB7C_129 #1-474 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
359.8415 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.71E6
A3.41E6
A3.08E5
361.8385 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.37E6
A2.66E6
A2.61E5
371.8817 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A2.18E7
373.8788 S:9 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,212.0,5.00%,F,T)
A1.72E7
330.9792 S:9 F:4
31:34
31:55
32:20
32:54
33:16
33:44
34:04
34:39
35:11
35:30
35:56
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
4.1E5
2.1E5
0.0E0
3.3E5
1.7E5
3.8E6
1.9E6
3.0E6
1.5E6
4.4E5
2.2E5

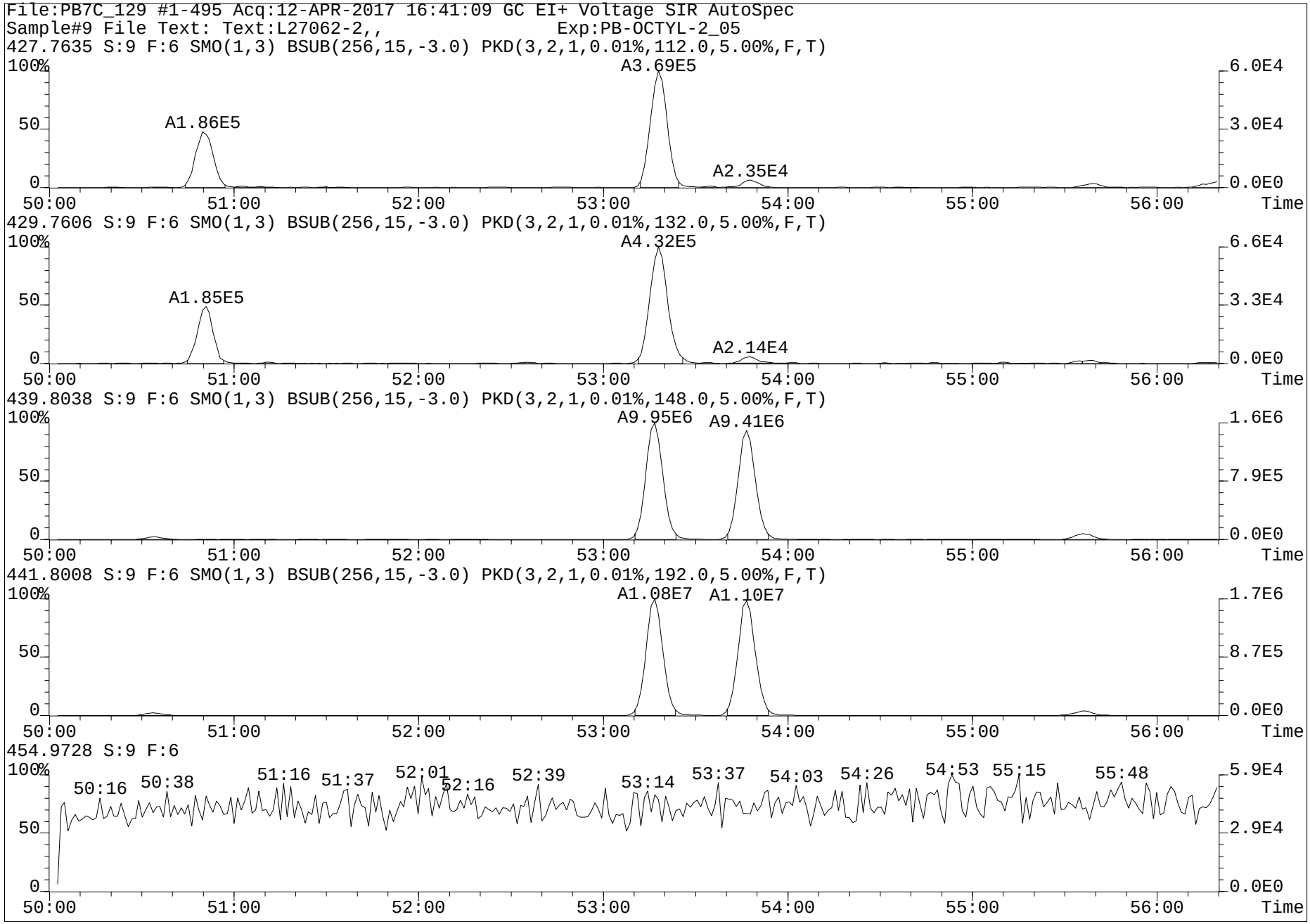

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
359.8415 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A6.06E6
A5.61E6
A4.66E6
A1.85E6
A1.15E6
A4.59E5
A4.70E5
361.8385 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A4.86E6
A4.55E6
A3.68E6
A1.49E6
A8.92E5
A3.87E5
371.8817 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,180.0,5.00%,F,T)
A1.64E7
A1.30E7
A2.59E7
A1.31E7
373.8788 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A1.30E7
A1.03E7
A2.07E7
A1.03E7
354.9792 S:9 F:5
36:11
37:11
37:54
38:37
39:36
40:19
40:40
41:23
42:12
43:04
43:31
43:53
45:02
45:35
45:44
45:58
46:53
47:35
47:57
48:50
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
1.0E6
5.0E5
0.0E0
7.9E5
4.0E5
3.3E6
1.7E6
2.6E6
1.3E6
8.5E4
4.3E4

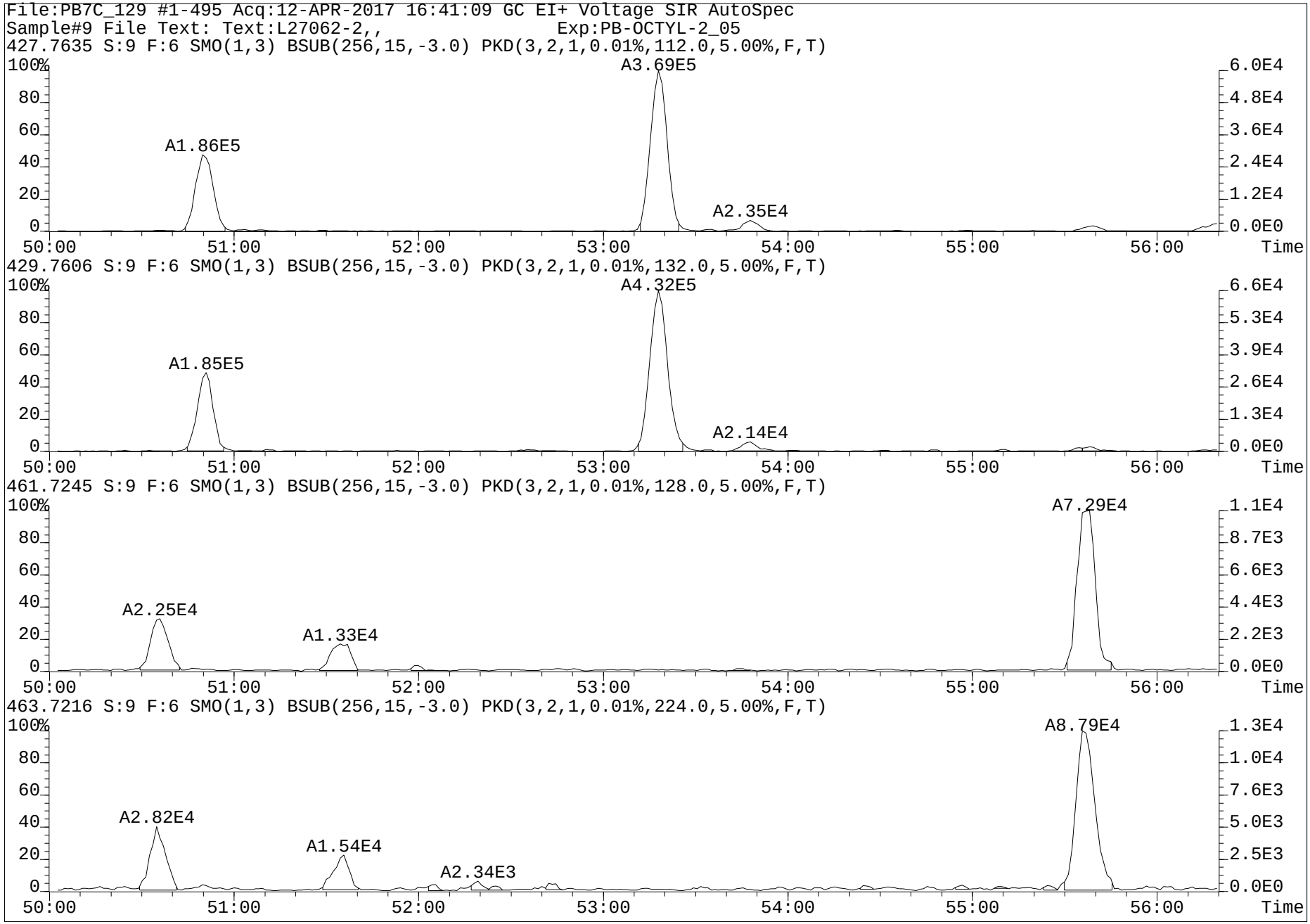

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
359.8415 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A6.06E6
A5.61E6
A4.66E6
A1.85E6
A1.15E6
A4.59E5
A4.70E5
361.8385 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A4.86E6
A4.55E6
A3.68E6
A1.49E6
A8.92E5
A4.37E5
A3.88E5
393.8025 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.37E6
A1.59E6
A9.77E5
A8.39E5
A8.54E5
A2.72E5
A2.78E5
A2.89E5
A1.60E5
A2.32E5
395.7995 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A2.35E6
A1.51E6
A9.24E5
A8.09E5
A8.15E5
A2.69E5
A2.59E5
A2.80E5
A1.47E5
A1.98E5
427.7635 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A4.03E5
A1.22E5
A7.10E4
A1.31E5
429.7606 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A4.24E5
A1.25E5
A7.36E4
A1.42E5
100%
50
0
1.0E6
5.0E5
0.0E0
7.9E5
4.0E5
3.6E5
1.8E5
6.7E4
3.4E4
6.8E4
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

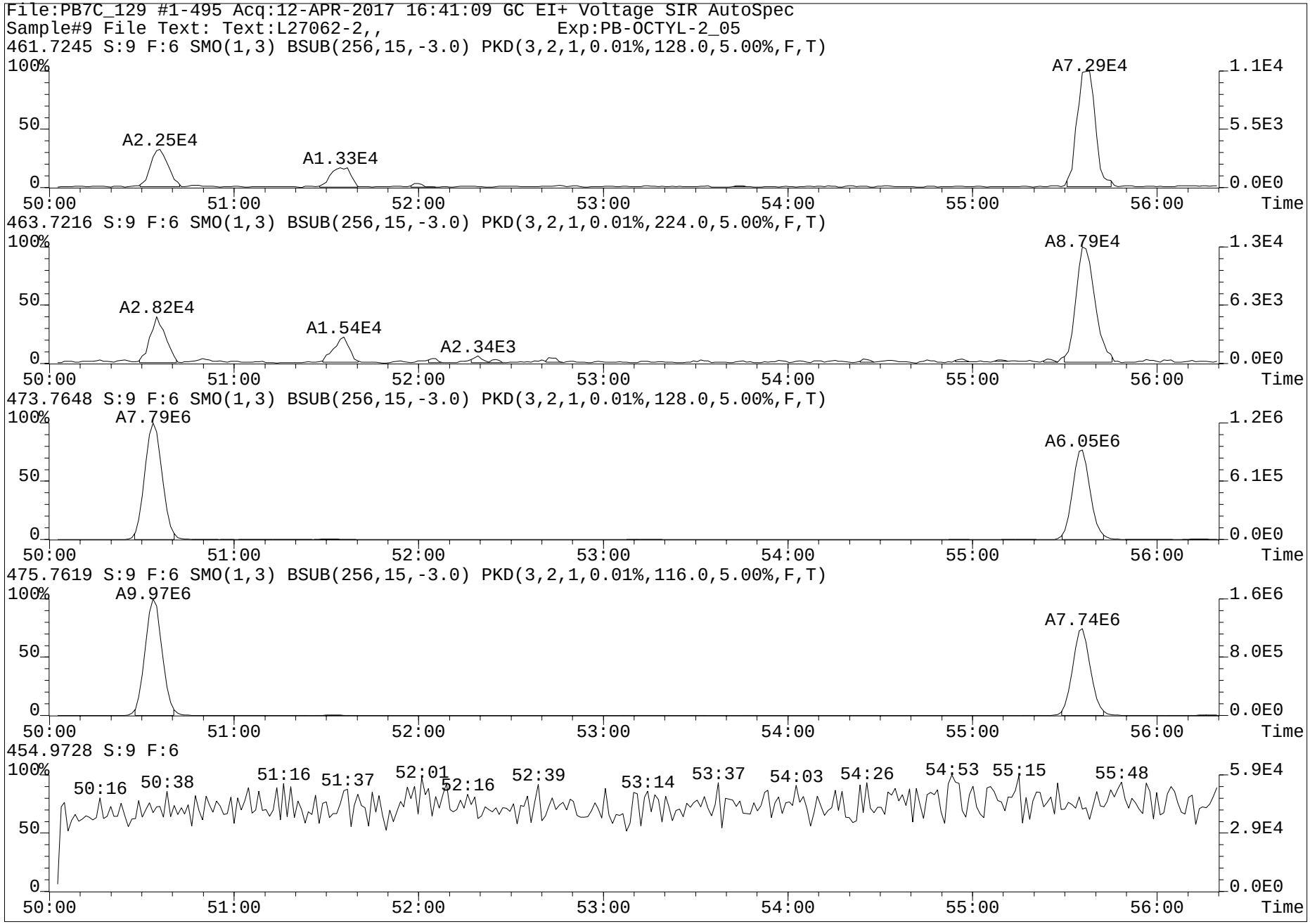

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
359.8415 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.15E4
100%
90
80
70
60
50
40
30
20
10
0
1.0E4
9.0E3
8.0E3
7.0E3
6.0E3
5.0E3
4.0E3
3.0E3
2.0E3
1.0E3
0.0E0
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time
361.8385 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.03E4
100%
90
80
70
60
50
40
30
20
10
0
6.7E3
6.0E3
5.4E3
4.7E3
4.0E3
3.3E3
2.7E3
2.0E3
1.3E3
6.7E2
0.0E0
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time

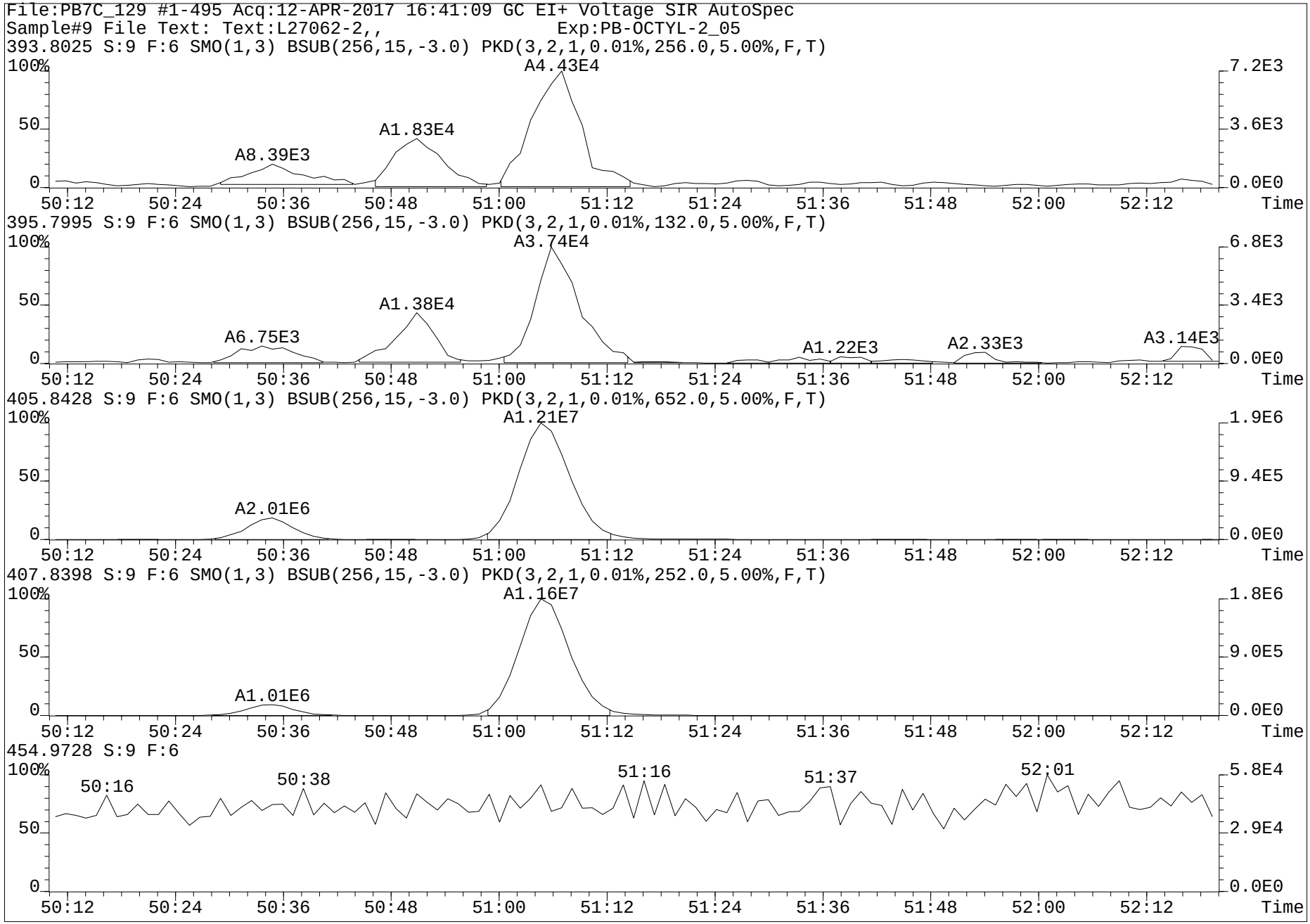

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
393.8025 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.77E5
A2.72E5
A2.78E5
A1.59E6
A1.36E6
A8.39E5
A2.89E5
A1.60E5
A2.37E6
A8.54E5
A2.32E5
395.7995 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A9.24E5
A2.69E5
A2.59E5
A1.51E6
A1.22E6
A8.09E5
A2.80E5
A1.47E5
A2.35E6
A8.15E5
A1.98E5
405.8425 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,196.0,5.00%,F,T)
A1.56E7
A1.11E7
A9.60E6
A7.90E6
407.8398 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,152.0,5.00%,F,T)
A1.46E7
A1.06E7
A9.18E6
A7.74E6
354.9792 S:9 F:5
37:54
38:37
39:13
40:19
40:40
41:23
42:12
43:04
43:31
44:24
45:02
45:35
45:44
45:58
46:53
47:35
47:57
48:33
48:50
100%
50
0
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
3.6E5
1.8E5
0.0E0
2.6E6
1.3E6
2.5E6
1.2E6
8.5E4
4.3E4

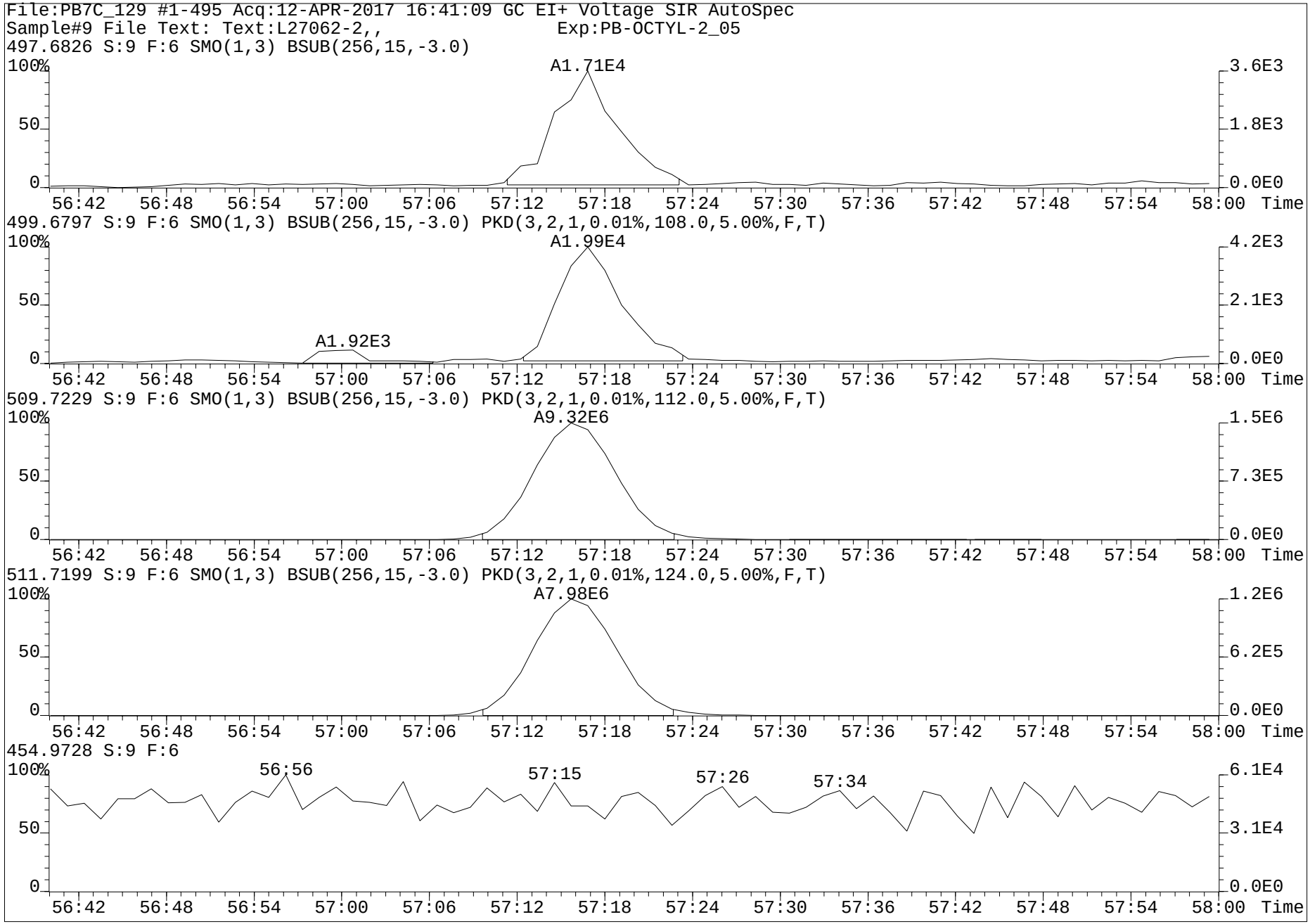

File:PB7C_129 #1-741 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
427.7635 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.22E5
A7.10E4
A1.31E5
A4.03E5
A2.52E5
429.7606 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.25E5
A7.36E4
A1.42E5
A4.24E5
A2.27E5
A2.92E5
439.8038 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.15E7
441.8008 S:9 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A1.24E7
354.9792 S:9 F:5
43:31
43:53
44:24
45:02
45:11
45:35
45:44
46:06
46:53
47:02
47:30
47:35
47:57
48:33
48:50
49:21
49:49
100%
50
0
6.7E4
3.4E4
0.0E0
6.8E4
1.8E6
9.2E5
2.0E6
1.0E6
8.1E4
4.0E4
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
427.7635 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A3.69E5
A1.86E5
A2.35E4
429.7606 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A4.32E5
A1.85E5
A2.14E4
439.8038 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A9.95E6
A9.41E6
441.8008 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,192.0,5.00%,F,T)
A1.08E7
A1.10E7
454.9728 S:9 F:6
50:16
50:38
51:16
51:37
52:01
52:16
52:39
53:14
53:37
54:03
54:26
54:53
55:15
55:48
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
6.0E4
3.0E4
0.0E0
6.6E4
3.3E4
1.6E6
7.9E5
1.7E6
8.7E5
5.9E4
2.9E4


File:PB7C_129 #1-495 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
427.7635 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A3.69E5
A1.86E5
A2.35E4
429.7606 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A4.32E5
A1.85E5
A2.14E4
461.7245 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A7.29E4
A2.25E4
A1.33E4
463.7216 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,224.0,5.00%,F,T)
A8.79E4
A2.82E4
A1.54E4
A2.34E3
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
461.7245 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A2.25E4
A1.33E4
A7.29E4
463.7216 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,224.0,5.00%,F,T)
A2.82E4
A1.54E4
A2.34E3
A8.79E4
473.7648 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A7.79E6
A6.05E6
475.7619 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A9.97E6
A7.74E6
454.9728 S:9 F:6
50:16
50:38
51:16
51:37
52:01
52:16
52:39
53:14
53:37
54:03
54:26
54:53
55:15
55:48
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.1E4
5.5E3
0.0E0
1.3E4
6.3E3
1.2E6
6.1E5
1.6E6
8.0E5
5.9E4
2.9E4


File:PB7C_129 #1-495 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
393.8025 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A4.43E4
A1.83E4
A8.39E3
7.2E3
3.6E3
0.0E0
395.7995 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A3.74E4
A1.38E4
A6.75E3
A1.22E3
A2.33E3
A3.14E3
6.8E3
3.4E3
0.0E0
405.8428 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,652.0,5.00%,F,T)
A1.21E7
A2.01E6
1.9E6
9.4E5
0.0E0
407.8398 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A1.16E7
A1.01E6
1.8E6
9.0E5
0.0E0
454.9728 S:9 F:6
50:16
50:38
51:16
51:37
52:01
5.8E4
2.9E4
0.0E0
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 16:41:09 GC EI+ Voltage SIR AutoSpec
Sample#9 File Text: Text:L27062-2,, Exp:PB-OCTYL-2_05
497.6826 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0)
A1.71E4
499.6797 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.99E4
A1.92E3
509.7229 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A9.32E6
511.7199 S:9 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A7.98E6
454.9728 S:9 F:6
56:56
57:15
57:26
57:34
100%
50
0
3.6E3
1.8E3
0.0E0
4.2E3
2.1E3
1.5E6
7.3E5
1.2E6
6.2E5
6.1E4
3.1E4
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time

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Run #8 Filename PB7C_131A S: 7 I: 1 Acquired: 17-APR-17 14:47:36 Processed: 19-APR-17 06:42:46
Run: pb7c_131a-b Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_131a-b Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-3,I, Comments: 1,WG58451,1.0/20uL
sample size: 0.997920 conc units: pg/L total toxicity: 39.90 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 1.03e+05 | 2.86 | y | 11:30 | 4.298 | 4 | 0.3021 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 8.46e+04 | 3.40 | y | 13:43 | 3.543 | 4 | 0.3797 | - | y |
| 3 | Unk | CL2-PCB-4 | 1 | 5.15e+04 | 1.77 | y | 13:58 | 3.503 | 4 | 1.4998 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.22e+05 | 1.75 | y | 20:03 | 4.388 | 4 | 1.0075 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 2.09e+04 | 1.37 | n | 17:09 | 1.204 | 1 | 0.4016 | - | y |
| 6 | Unk | CL3-PCB-37 | 1 | 1.66e+05 | 0.90 | y | 27:21 | 6.809 | 7 | 0.5583 | - | n |
| 7 | Unk | CL4-PCB-54 | 0 | * | * | n | NotFnd | * | * | 0.3803 | - | n |
| 8 | Unk | CL4-PCB-81 | 0 | * | * | n | NotFnd | * | * | 1.1149 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 4.48e+04 | 0.70 | y | 34:59 | 1.981 | 2 | 1.1137 | - | y |
| 10 | Unk | CL5-PCB-104 | 0 | * | * | n | NotFnd | * | * | 0.4421 | - | n |
| 11 | Unk | CL5-PCB-123 | 0 | * | * | n | NotFnd | * | * | 1.6971 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 1.45e+05 | 1.59 | y | 37:24 | 7.825 | 8 | 1.6153 | - | y |
| 13 | Unk | CL5-PCB-114 | 0 | * | * | n | NotFnd | * | * | 1.5654 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 7.60e+04 | 1.63 | y | 38:39 | 3.559 | 4 | 1.4222 | - | y |
| 15 | Unk | CL5-PCB-126 | 0 | * | * | n | NotFnd | * | * | 1.6249 | - | n |
| 16 | Unk | CL6-PCB-155 | 0 | * | * | n | NotFnd | * | * | 0.4080 | - | n |
| 17 | Unk | CL6-PCB-167 | 0 | * | * | n | NotFnd | * | * | 0.7987 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 2.76e+04 | 1.14 | y | 44:59 | 1.421 | 1 | 0.9144 | - | y |
| 19 | Unk | CL6-PCB-169 | 0 | * | * | n | NotFnd | * | * | 0.8462 | - | n |
| 20 | Unk | CL7-PCB-188 | 0 | * | * | n | NotFnd | * | * | 0.4685 | - | n |
| 21 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.9131 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 4.16e+03 | 3.20 | n | 43:33 | 0.268 | 0 | 0.5500 | - | n |
| 23 | Unk | CL8-PCB-205 | 0 | * | * | n | NotFnd | * | * | 0.7219 | - | n |
| 24 | Unk | CL9-PCB-208 | 0 | * | * | n | NotFnd | * | * | 0.9420 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.15e+04 | 1.11 | n | 55:37 | 1.101 | 1 | 1.0391 | - | y |
| 26 | Unk | CL10-PCB-209 | 0 | * | * | n | NotFnd | * | * | 0.5975 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 4.39e+07 | 3.08 | y | 11:29 | 686.255 | 0 | 4.0189 | 34.2 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 4.37e+07 | 3.04 | y | 13:43 | 701.120 | 0 | 4.1210 | 35.0 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 2.88e+07 | 1.62 | y | 13:57 | 700.584 | 0 | 1.4000 | 35.0 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 6.02e+07 | 1.57 | y | 20:02 | 895.565 | 0 | 0.8550 | 44.7 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 3.52e+07 | 1.01 | y | 17:08 | 958.387 | 0 | 2.8764 | 47.8 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 4.84e+07 | 1.05 | y | 27:20 | 795.624 | 0 | 2.9114 | 39.7 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 4.43e+07 | 0.80 | y | 20:18 | 890.249 | 0 | 0.3653 | 44.4 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 4.28e+07 | 0.79 | y | 34:23 | 869.300 | 0 | 0.3508 | 43.4 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 4.51e+07 | 0.76 | y | 34:58 | 889.405 | 0 | 0.3403 | 44.4 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 2.96e+07 | 1.54 | y | 26:00 | 715.202 | 0 | 0.2297 | 35.7 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 3.62e+07 | 1.60 | y | 37:03 | 976.057 | 0 | 1.8064 | 48.7 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 3.63e+07 | 1.57 | y | 37:23 | 992.676 | 0 | 1.8305 | 49.5 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 3.66e+07 | 1.57 | y | 37:57 | 1029.890 | 0 | 1.8882 | 51.4 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 4.21e+07 | 1.57 | y | 38:37 | 1154.516 | 0 | 1.8398 | 57.6 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 3.90e+07 | 1.57 | y | 41:52 | 1169.019 | 0 | 2.0087 | 58.3 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 3.40e+07 | 1.26 | y | 31:56 | 637.109 | 0 | 0.1465 | 31.8 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 3.35e+07 | 1.26 | y | 43:49 | 863.972 | 0 | 0.3219 | 43.1 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 7.22e+07 | 1.26 | y | 45:01 | 1786.908 | 0 | 0.3086 | 44.6 | n |

SVD BY SJH 21-APR-2017

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 3.61e+07 | 1.27 | y | 48:26 | 936.858 | 0 | 0.3236 | 46.7 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 3.57e+07 | 1.03 | y | 37:55 | 661.496 | 0 | 0.1881 | 33.0 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 3.13e+07 | 1.07 | y | 51:04 | 890.803 | 0 | 1.8732 | 44.4 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 3.64e+07 | 0.92 | y | 43:32 | 727.768 | 0 | 0.1936 | 36.3 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 2.94e+07 | 0.89 | y | 53:46 | 892.387 | 0 | 1.7310 | 44.5 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 2.56e+07 | 0.80 | y | 50:33 | 813.094 | 0 | 0.4835 | 40.6 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.24e+07 | 0.77 | y | 55:34 | 941.412 | 0 | 0.6393 | 47.0 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 2.59e+07 | 1.17 | y | 57:15 | 863.798 | 0 | 0.3611 | 43.1 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.23e+08 | 1.55 | y | 15:59 | 77.562 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 7.10e+07 | 0.78 | y | 25:03 | 81.252 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 5.64e+07 | 1.59 | y | 32:11 | 73.055 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 6.15e+07 | 1.27 | y | 40:39 | 89.557 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 4.33e+07 | 0.88 | y | 53:15 | 100.449 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 6.93e+07 | 1.04 | y | 23:09 | 1156.858 | 0 | 2.9516 | 57.7 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.53e+07 | 1.61 | y | 35:00 | 1498.789 | 0 | 0.3445 | 74.8 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 5.08e+07 | 1.02 | y | 41:07 | 1677.298 | 0 | 0.3201 | 83.7 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 4.43e+07 | 0.80 | y | 20:18 | 890.249 | 0 | 0.3653 | 44.4 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 3.57e+07 | 1.03 | y | 37:55 | 661.496 | 0 | 0.1881 | 33.0 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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Run #2 Filename PB7C_131A S: 7 I: 1 Acquired: 17-APR-17 14:47:36 Processed: 19-APR-17 06:45:39
Run: pb7c_131a-bc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: Version: V3.6 6-JAN-2000 17:51:42
Sample text: L27062-3,I, Comments: 1,WG58451,1.0/20uL
sample size: 0.997920 conc units: pg/L total toxicity: 441.29 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 8.81e+04 | 2.81 | y | 13:33 | 3.968 | 4 | 0.3670 | - | y |
| 2 | Unk | CL2-PCB-10 | 0 | * | * | n | NotFnd | * | * | 0.9954 | - | n |
| 3 | Unk | CL2-PCB-9 | 1 | 2.47e+04 | 1.78 | y | 15:59 | 0.940 | 1 | 0.9553 | - | y |
| 4 | Unk | CL2-PCB-7 | 1 | 3.54e+04 | 1.48 | y | 16:10 | 1.376 | 1 | 0.9735 | - | y |
| 5 | Unk | CL2-PCB-6 | 1 | 5.99e+04 | 1.75 | y | 16:24 | 2.303 | 2 | 0.9633 | - | y |
| 6 | Unk | CL2-PCB-5 | 0 | * | * | n | NotFnd | * | * | 1.1115 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 2.01e+05 | 1.49 | y | 16:51 | 6.899 | 7 | 0.8606 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 0.9692 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 2.02e+06 | 1.61 | y | 19:25 | 78.901 | 79 | 0.9809 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 1 | 5.49e+04 | 1.65 | y | 19:43 | 2.208 | 2 | 1.0087 | - | y |
| 11 | Unk | CL3-PCB-30/18 | 1 | 3.08e+05 | 1.00 | y | 19:04 | 13.427 | 13 | 0.3410 | - | n |
| 12 | Unk | CL3-PCB-17 | 1 | 1.17e+05 | 1.19 | y | 19:30 | 5.942 | 6 | 0.3974 | - | n |
| 13 | Unk | CL3-PCB-27 | 1 | 3.05e+04 | 0.75 | n | 19:43 | 1.099 | 1 | 0.2820 | - | n |
| 14 | Unk | CL3-PCB-24 | 0 | * | * | n | NotFnd | * | * | 0.3065 | - | n |
| 15 | Unk | CL3-PCB-16 | 1 | 1.10e+05 | 0.94 | y | 19:58 | 6.742 | 7 | 0.4778 | - | y |
| 16 | Unk | CL3-PCB-32 | 1 | 1.20e+05 | 1.28 | n | 20:30 | 4.743 | 5 | 0.4844 | - | n |
| 17 | Unk | CL3-PCB-34 | 1 | 1.13e+04 | 0.76 | n | 21:49 | 0.474 | 0 | 0.5179 | - | y |
| 18 | Unk | CL3-PCB-23 | 1 | 6.90e+03 | 1.13 | y | 22:00 | 0.295 | 0 | 0.5256 | - | y |
| 19 | Unk | CL3-PCB-26/29 | 1 | 1.06e+05 | 0.96 | y | 22:18 | 4.272 | 4 | 0.4963 | - | n |
| 20 | Unk | CL3-PCB-25 | 1 | 5.65e+04 | 0.92 | y | 22:33 | 2.004 | 2 | 0.4356 | - | n |
| 21 | Unk | CL3-PCB-31 | 1 | 4.53e+05 | 1.13 | y | 22:52 | 17.309 | 17 | 0.4690 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 5.35e+05 | 1.05 | y | 23:10 | 21.136 | 21 | 0.4856 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 3.27e+05 | 1.02 | y | 23:26 | 12.791 | 13 | 0.4806 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 1.92e+05 | 1.04 | y | 23:50 | 8.291 | 8 | 0.5308 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 0.4556 | - | n |
| 26 | Unk | CL3-PCB-39 | 0 | * | * | n | NotFnd | * | * | 0.4838 | - | n |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 0.4876 | - | n |
| 28 | Unk | CL3-PCB-35 | 1 | 4.61e+04 | 1.04 | y | 26:56 | 1.774 | 2 | 0.4727 | - | n |
| 29 | Unk | CL4-PCB-50/53 | 1 | 3.92e+04 | 0.56 | n | 22:33 | 2.147 | 2 | 0.5893 | - | y |
| 30 | Unk | CL4-PCB-45/51 | 1 | 1.03e+05 | 0.85 | y | 23:17 | 5.774 | 6 | 0.6055 | - | y |
| 31 | Unk | CL4-PCB-46 | 1 | 2.56e+04 | 1.40 | n | 23:33 | 1.649 | 2 | 0.6929 | - | n |
| 32 | Unk | CL4-PCB-52 | 1 | 3.24e+05 | 0.71 | y | 25:04 | 17.403 | 17 | 0.5776 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.4543 | - | n |
| 34 | Unk | CL4-PCB-43 | 1 | 7.58e+03 | 0.51 | n | 25:18 | 0.476 | 0 | 0.6757 | - | y |
| 35 | Unk | CL4-PCB-69/49 | 1 | 1.78e+05 | 0.69 | y | 25:34 | 8.343 | 8 | 0.5034 | - | n |
| 36 | Unk | CL4-PCB-48 | 1 | 7.63e+04 | 0.70 | y | 25:51 | 4.196 | 4 | 0.5911 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 4.00e+05 | 0.73 | y | 26:07 | 19.920 | 20 | 0.5361 | - | n |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 3.88e+04 | 0.71 | y | 26:26 | 1.593 | 2 | 0.4414 | - | n |
| 39 | Unk | CL4-PCB-42 | 1 | 6.46e+04 | 0.92 | n | 26:37 | 3.676 | 4 | 0.6120 | - | y |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 1.69e+05 | 0.82 | y | 27:07 | 9.108 | 9 | 0.5800 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 1.65e+05 | 0.80 | y | 27:23 | 6.549 | 7 | 0.4265 | - | n |
| 42 | Unk | CL4-PCB-72 | 0 | * | * | n | NotFnd | * | * | 0.9571 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 3.30e+04 | 0.61 | n | 28:34 | 1.393 | 1 | 0.9559 | - | y |
| 44 | Unk | CL4-PCB-57 | 0 | * | * | n | NotFnd | * | * | 0.9961 | - | n |

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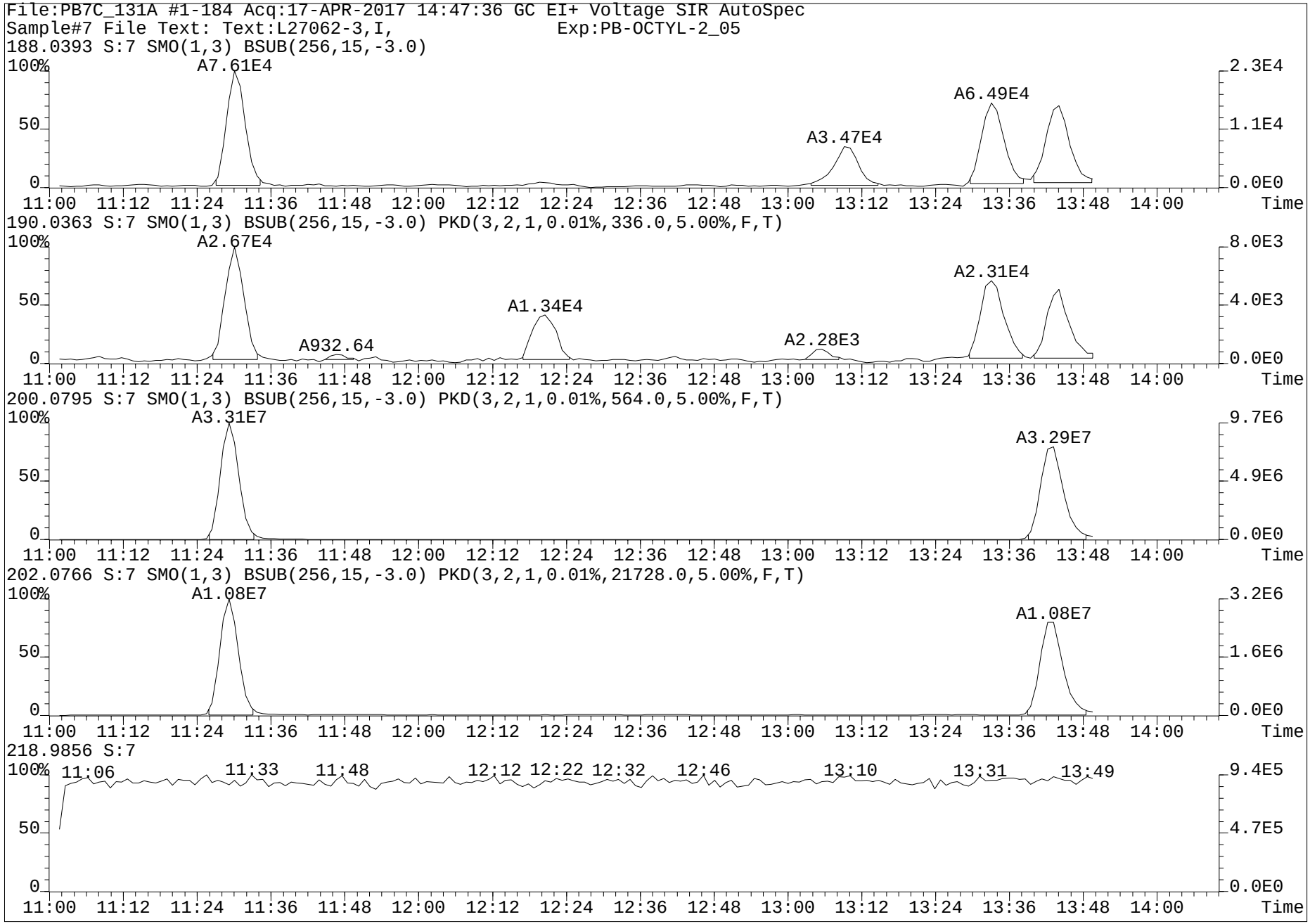
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 0 | * | * | n | NotFnd | * | * | 1.0295 | - | n |
| 46 | Unk | CL4-PCB-67 | 0 | * | * | n | NotFnd | * | * | 0.8790 | - | n |
| 47 | Unk | CL4-PCB-63 | 1 | 1.84e+04 | 0.77 | y | 29:42 | 0.788 | 1 | 0.9691 | - | y |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 4.90e+05 | 0.74 | y | 30:05 | 21.643 | 22 | 1.0003 | - | n |
| 49 | Unk | CL4-PCB-66 | 1 | 3.00e+05 | 0.67 | y | 30:23 | 13.451 | 13 | 1.0151 | - | y |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 1.0285 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 1.70e+05 | 0.74 | y | 31:05 | 8.090 | 8 | 1.0759 | - | n |
| 52 | Unk | CL4-PCB-60 | 1 | 9.61e+04 | 0.82 | y | 31:18 | 4.457 | 4 | 1.0507 | - | y |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 0.9315 | - | n |
| 54 | Unk | CL4-PCB-79 | 0 | * | * | n | NotFnd | * | * | 0.8554 | - | n |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 0.9644 | - | n |
| 56 | Unk | CL5-PCB-96 | 0 | * | * | n | NotFnd | * | * | 0.3392 | - | n |
| 57 | Unk | CL5-PCB-103 | 0 | * | * | n | NotFnd | * | * | 0.6353 | - | n |
| 58 | Unk | CL5-PCB-94 | 0 | * | * | n | NotFnd | * | * | 0.7809 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 8.16e+04 | 2.37 | n | 29:07 | 5.371 | 5 | 0.6990 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 1 | 1.57e+04 | 2.46 | n | 30:01 | 1.061 | 1 | 0.7188 | - | y |
| 61 | Unk | CL5-PCB-84 | 1 | 3.75e+04 | 0.80 | n | 30:15 | 2.827 | 3 | 0.8012 | - | y |
| 62 | Unk | CL5-PCB-89 | 0 | * | * | n | NotFnd | * | * | 0.7352 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 0.5499 | - | n |
| 64 | Unk | CL5-PCB-92 | 1 | 2.45e+04 | 0.67 | n | 31:36 | 1.614 | 2 | 0.6990 | - | y |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 1.48e+05 | 1.65 | y | 32:13 | 8.600 | 9 | 0.6162 | - | y |
| 66 | Unk | CL5-PCB-83/99 | 1 | 5.11e+04 | 1.83 | n | 32:50 | 3.560 | 4 | 0.7394 | - | y |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 0.4667 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 1.31e+05 | 1.57 | y | 33:23 | 7.530 | 8 | 0.6122 | - | y |
| 69 | Unk | CL5-PCB-117/116/85 | 1 | 4.04e+04 | 1.96 | n | 34:03 | 2.231 | 2 | 0.5859 | - | y |
| 70 | Unk | CL5-PCB-110/115 | 1 | 1.57e+05 | 1.39 | y | 34:15 | 7.571 | 8 | 0.5131 | - | y |
| 71 | Unk | CL5-PCB-82 | 0 | * | * | n | NotFnd | * | * | 0.7690 | - | n |
| 72 | Unk | CL5-PCB-111 | 0 | * | * | n | NotFnd | * | * | 0.5201 | - | n |
| 73 | Unk | CL5-PCB-120 | 0 | * | * | n | NotFnd | * | * | 0.4976 | - | n |
| 74 | Unk | CL5-PCB-108/124 | 0 | * | * | n | NotFnd | * | * | 1.6088 | - | n |
| 75 | Unk | CL5-PCB-107 | 0 | * | * | n | NotFnd | * | * | 1.5854 | - | n |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 1.3951 | - | n |
| 77 | Unk | CL5-PCB-122 | 0 | * | * | n | NotFnd | * | * | 1.7021 | - | n |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 2.0498 | - | n |
| 79 | Unk | CL6-PCB-152 | 0 | * | * | n | NotFnd | * | * | 0.2716 | - | n |
| 80 | Unk | CL6-PCB-150 | 0 | * | * | n | NotFnd | * | * | 0.2873 | - | n |
| 81 | Unk | CL6-PCB-136 | 1 | 1.56e+04 | 1.20 | y | 32:40 | 0.538 | 1 | 0.2828 | - | y |
| 82 | Unk | CL6-PCB-145 | 0 | * | * | n | NotFnd | * | * | 0.3028 | - | n |
| 83 | Unk | CL6-PCB-148 | 0 | * | * | n | NotFnd | * | * | 0.4554 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 5.90e+04 | 0.84 | n | 35:14 | 3.151 | 3 | 0.4379 | - | n |
| 85 | Unk | CL6-PCB-144 | 1 | 6.08e+03 | 0.40 | n | 35:50 | 0.348 | 0 | 0.4686 | - | y |
| 86 | Unk | CL6-PCB-147/149 | 1 | 7.61e+04 | 1.71 | n | 36:12 | 4.058 | 4 | 0.8141 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 0 | * | * | n | NotFnd | * | * | 0.9629 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 0 | * | * | n | NotFnd | * | * | 0.9462 | - | n |
| 89 | Unk | CL6-PCB-131 | 0 | * | * | n | NotFnd | * | * | 1.1567 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 1.1100 | - | n |
| 91 | Unk | CL6-PCB-132 | 1 | 2.03e+04 | 1.11 | y | 37:29 | 1.591 | 2 | 1.1954 | - | y |
| 92 | Unk | CL6-PCB-133 | 0 | * | * | n | NotFnd | * | * | 1.1199 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 0.9165 | - | n |
| 94 | Unk | CL6-PCB-146 | 1 | 5.00e+04 | 1.26 | y | 38:44 | 3.148 | 3 | 0.9609 | - | n |
| 95 | Unk | CL6-PCB-161 | 0 | * | * | n | NotFnd | * | * | 0.7879 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 1.58e+05 | 1.12 | y | 39:22 | 9.454 | 9 | 0.9107 | - | y |
| 97 | Unk | CL6-PCB-141 | 1 | 2.83e+04 | 1.12 | y | 39:33 | 1.930 | 2 | 1.0416 | - | y |

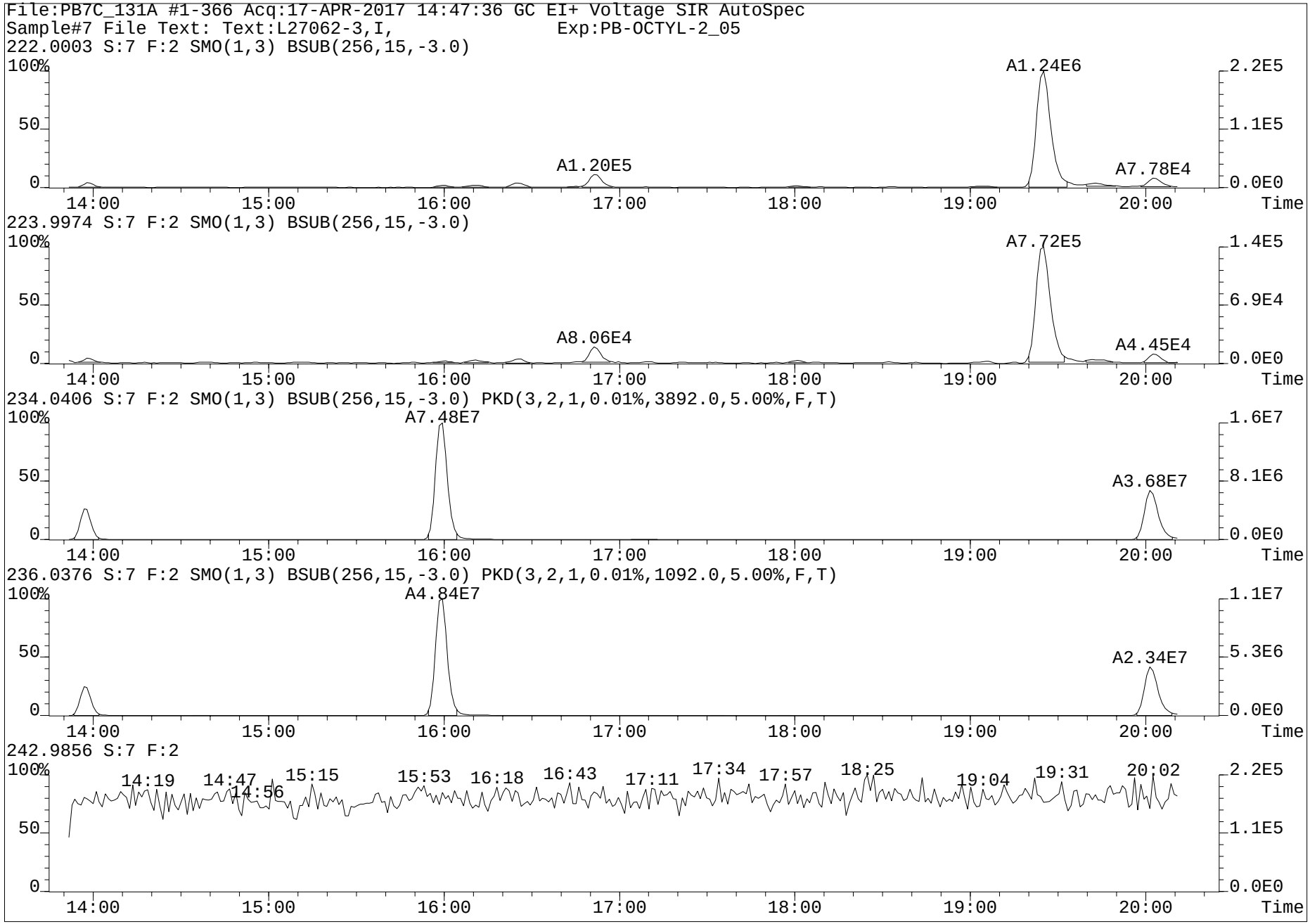
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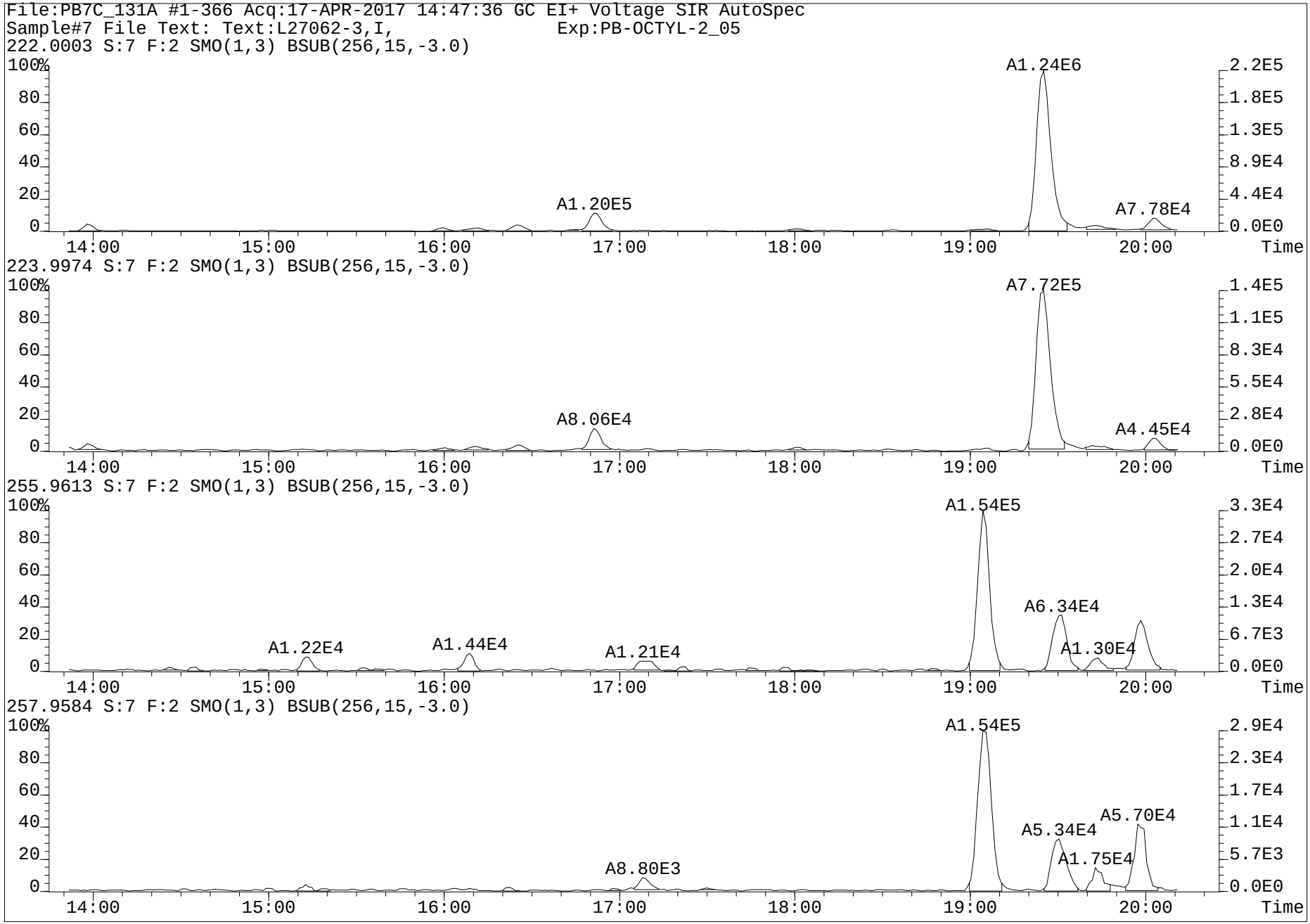


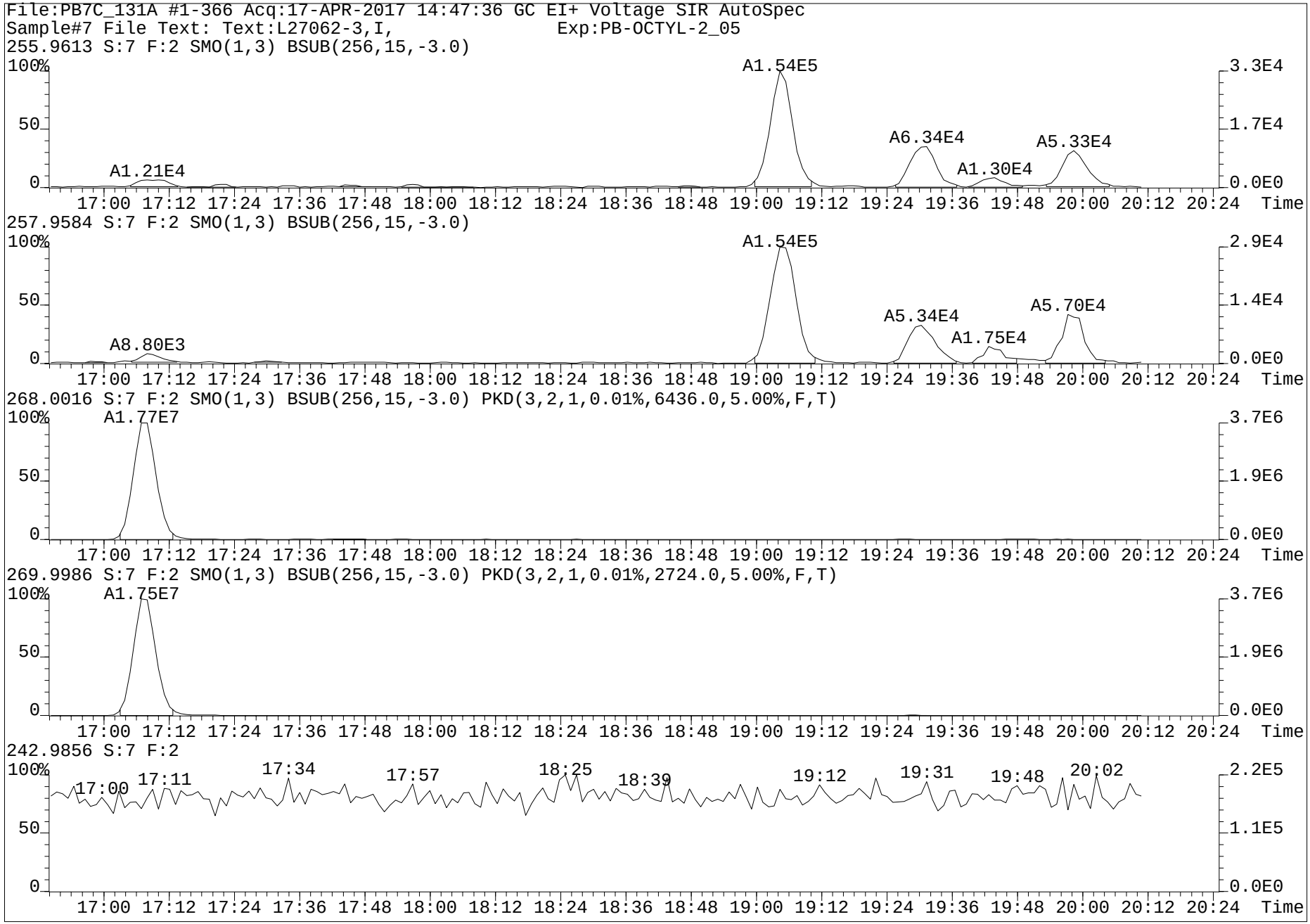
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 1 | 1.05e+04 | 1.24 | y | 39:58 | 0.856 | 1 | 1.2475 | - | y |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 1.3434 | - | n |
| 100 | Unk | CL6-PCB-164 | 1 | 9.12e+03 | 2.88 | n | 40:22 | 0.460 | 0 | 0.7698 | - | y |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 1.63e+05 | 1.29 | y | 40:40 | 10.711 | 11 | 1.0039 | - | n |
| 102 | Unk | CL6-PCB-158 | 1 | 1.30e+04 | 0.91 | n | 41:04 | 0.674 | 1 | 0.7902 | - | y |
| 103 | Unk | CL6-PCB-128/166 | 1 | 6.06e+03 | 0.89 | n | 41:57 | 0.403 | 0 | 1.0144 | - | y |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 0.9138 | - | n |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 0.8825 | - | n |
| 106 | Unk | CL7-PCB-179 | 1 | 1.68e+04 | 2.20 | n | 38:16 | 0.859 | 1 | 0.4231 | - | y |
| 107 | Unk | CL7-PCB-184 | 0 | * | * | n | NotFnd | * | * | 0.4059 | - | n |
| 108 | Unk | CL7-PCB-176 | 1 | 6.68e+03 | 1.25 | n | 39:12 | 0.349 | 0 | 0.4331 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.4615 | - | n |
| 110 | Unk | CL7-PCB-178 | 1 | 1.19e+04 | 0.56 | n | 41:07 | 0.897 | 1 | 0.6231 | - | y |
| 111 | Unk | CL7-PCB-175 | 0 | * | * | n | NotFnd | * | * | 0.5927 | - | n |
| 112 | Unk | CL7-PCB-187 | 1 | 5.34e+04 | 0.82 | n | 42:05 | 3.640 | 4 | 0.5644 | - | y |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.5688 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 1 | 4.61e+04 | 1.07 | y | 42:45 | 3.463 | 3 | 0.6226 | - | y |
| 115 | Unk | CL7-PCB-174 | 1 | 4.40e+04 | 0.69 | n | 42:58 | 3.097 | 3 | 0.5828 | - | y |
| 116 | Unk | CL7-PCB-177 | 1 | 2.75e+04 | 1.14 | y | 43:25 | 1.766 | 2 | 0.5323 | - | y |
| 117 | Unk | CL7-PCB-181 | 0 | * | * | n | NotFnd | * | * | 0.6588 | - | n |
| 118 | Unk | CL7-PCB-171/173 | 1 | 9.06e+03 | 0.59 | n | 44:05 | 0.732 | 1 | 0.6691 | - | y |
| 119 | Unk | CL7-PCB-172 | 1 | 9.71e+03 | 0.56 | n | 45:49 | 0.822 | 1 | 0.7003 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.5830 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 1 | 1.60e+05 | 1.08 | y | 46:29 | 11.318 | 11 | 0.5957 | - | n |
| 122 | Unk | CL7-PCB-191 | 0 | * | * | n | NotFnd | * | * | 0.5347 | - | n |
| 123 | Unk | CL7-PCB-170 | 1 | 4.40e+04 | 1.16 | y | 47:48 | 3.230 | 3 | 0.6160 | - | n |
| 124 | Unk | CL7-PCB-190 | 0 | * | * | n | NotFnd | * | * | 0.5659 | - | n |
| 125 | Unk | CL8-PCB-201 | 0 | * | * | n | NotFnd | * | * | 0.4712 | - | n |
| 126 | Unk | CL8-PCB-204 | 0 | * | * | n | NotFnd | * | * | 0.4847 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 0 | * | * | n | NotFnd | * | * | 0.4567 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 1 | 2.10e+04 | 1.11 | n | 48:33 | 1.661 | 2 | 0.7123 | - | n |
| 129 | Unk | CL8-PCB-196 | 1 | 1.83e+04 | 1.51 | n | 49:14 | 1.397 | 1 | 0.6874 | - | n |
| 130 | Unk | CL8-PCB-203 | 1 | 1.07e+04 | 0.95 | y | 49:24 | 0.783 | 1 | 0.6577 | - | y |
| 131 | Unk | CL8-PCB-195 | 0 | * | * | n | NotFnd | * | * | 1.0444 | - | n |
| 132 | Unk | CL8-PCB-194 | 1 | 2.03e+04 | 0.82 | y | 53:16 | 2.033 | 2 | 0.9598 | - | y |
| 133 | Unk | CL9-PCB-207 | 0 | * | * | n | NotFnd | * | * | 0.7872 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 4.39e+07 | 3.08 | y | 11:29 | 685.070 | 0 | 4.0119 | 34.2 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 4.37e+07 | 3.04 | y | 13:43 | 713.634 | 0 | 4.1945 | 35.6 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 2.88e+07 | 1.62 | y | 13:57 | 744.442 | 0 | 1.4877 | 37.1 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 6.02e+07 | 1.57 | y | 20:02 | 949.680 | 0 | 0.9067 | 47.4 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 3.52e+07 | 1.01 | y | 17:08 | 894.109 | 0 | 2.6835 | 44.6 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 4.84e+07 | 1.05 | y | 27:20 | 992.398 | 0 | 3.6315 | 49.5 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 4.43e+07 | 0.80 | y | 20:18 | 978.268 | 0 | 0.4014 | 48.8 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 4.28e+07 | 0.79 | y | 34:23 | 988.062 | 0 | 0.3987 | 49.3 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 4.51e+07 | 0.76 | y | 34:58 | 1026.409 | 0 | 0.3927 | 51.2 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 2.96e+07 | 1.54 | y | 26:00 | 750.086 | 0 | 0.2409 | 37.4 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 3.62e+07 | 1.60 | y | 37:03 | 1123.069 | 0 | 2.0784 | 56.0 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 3.63e+07 | 1.57 | y | 37:23 | 1161.916 | 0 | 2.1426 | 58.0 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 3.66e+07 | 1.57 | y | 37:57 | 1265.110 | 0 | 2.3194 | 63.1 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 4.21e+07 | 1.57 | y | 38:37 | 1549.900 | 0 | 2.4699 | 77.3 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 3.90e+07 | 1.57 | y | 41:52 | 1750.899 | 0 | 3.0085 | 87.4 | n |

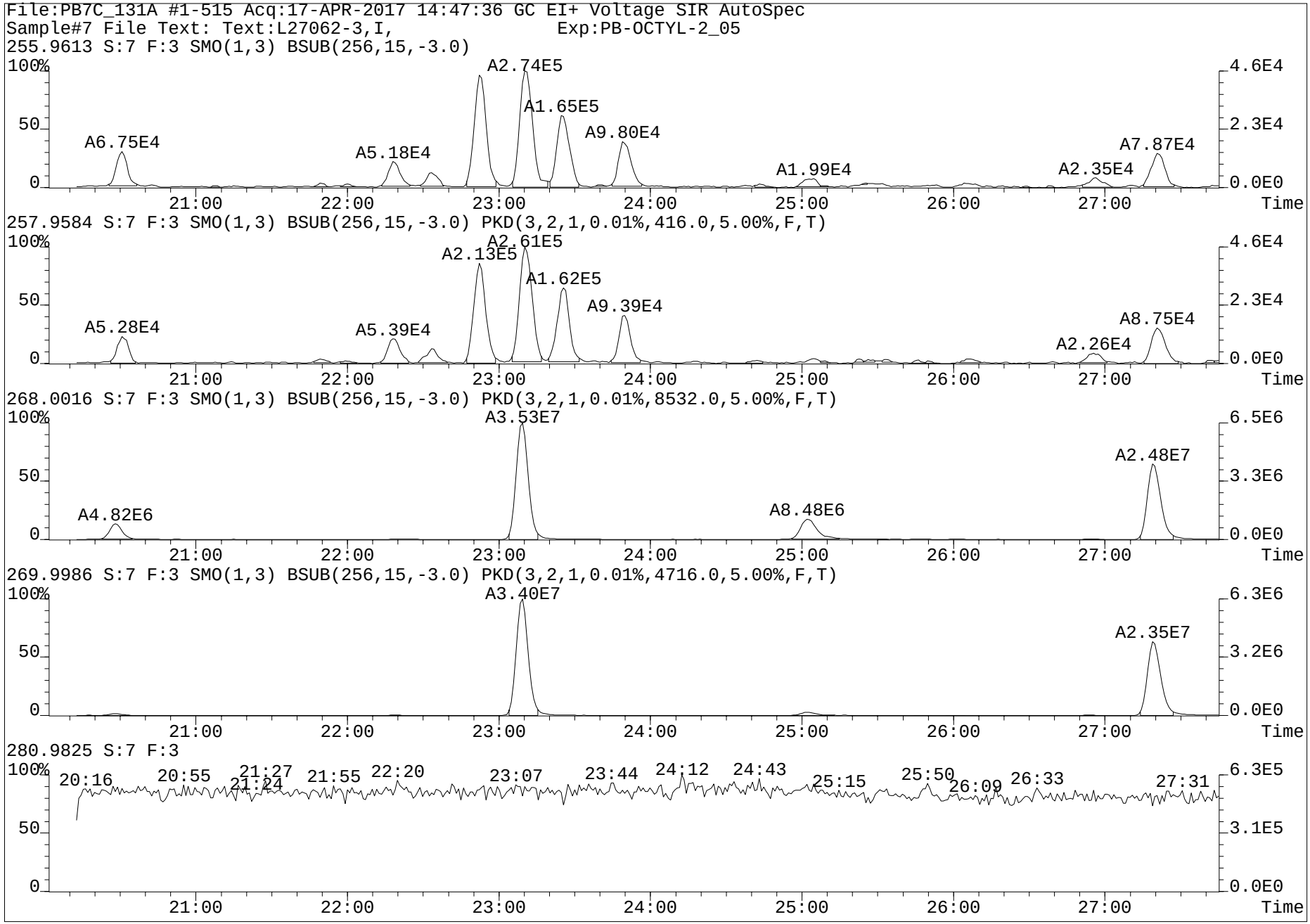
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 3.40e+07 | 1.26 | y | 31:56 | 499.542 | 0 | 0.1148 | 24.9 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 3.35e+07 | 1.26 | y | 43:49 | 983.491 | 0 | 0.3664 | 49.1 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 7.22e+07 | 1.26 | y | 45:01 | 2146.676 | 0 | 0.3707 | 53.6 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 3.61e+07 | 1.27 | y | 48:26 | 1151.429 | 0 | 0.3977 | 57.5 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 3.57e+07 | 1.03 | y | 37:55 | 638.693 | 0 | 0.1817 | 31.9 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 3.06e+07 | 1.04 | y | 46:28 | 887.235 | 0 | 0.2946 | 44.3 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 2.61e+07 | 1.03 | y | 47:47 | 944.867 | 0 | 0.3674 | 47.1 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 3.64e+07 | 0.92 | y | 43:32 | 696.849 | 0 | 0.1853 | 34.8 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 2.94e+07 | 0.89 | y | 53:46 | 1015.264 | 0 | 1.9693 | 50.7 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 2.56e+07 | 0.80 | y | 50:33 | 856.431 | 0 | 0.5092 | 42.7 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 2.24e+07 | 0.77 | y | 55:34 | 1022.343 | 0 | 0.6942 | 51.0 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.23e+08 | 1.55 | y | 15:59 | 146.039 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 7.10e+07 | 0.78 | y | 25:03 | 128.395 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 5.64e+07 | 1.59 | y | 32:11 | 106.664 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 6.15e+07 | 1.27 | y | 40:39 | 171.716 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 4.33e+07 | 0.88 | y | 53:15 | 201.826 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 6.93e+07 | 1.04 | y | 23:09 | 1361.619 | 0 | 3.4740 | 67.9 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 5.53e+07 | 1.61 | y | 35:00 | 1788.336 | 0 | 0.4110 | 89.2 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 5.08e+07 | 1.02 | y | 41:07 | 1706.273 | 0 | 0.3257 | 85.1 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 4.43e+07 | 0.80 | y | 20:18 | 978.268 | 0 | 0.4014 | 48.8 | n |
| 169 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.9167 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 3.13e+07 | 1.07 | y | 51:04 | 1010.536 | 0 | 2.1250 | 50.4 | n |
| 171 | Unk | CL10-PCB-209 | 0 | * | * | n | NotFnd | * | * | 0.6104 | - | n |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 2.59e+07 | 1.17 | y | 57:15 | 854.068 | 0 | 0.3571 | 42.6 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

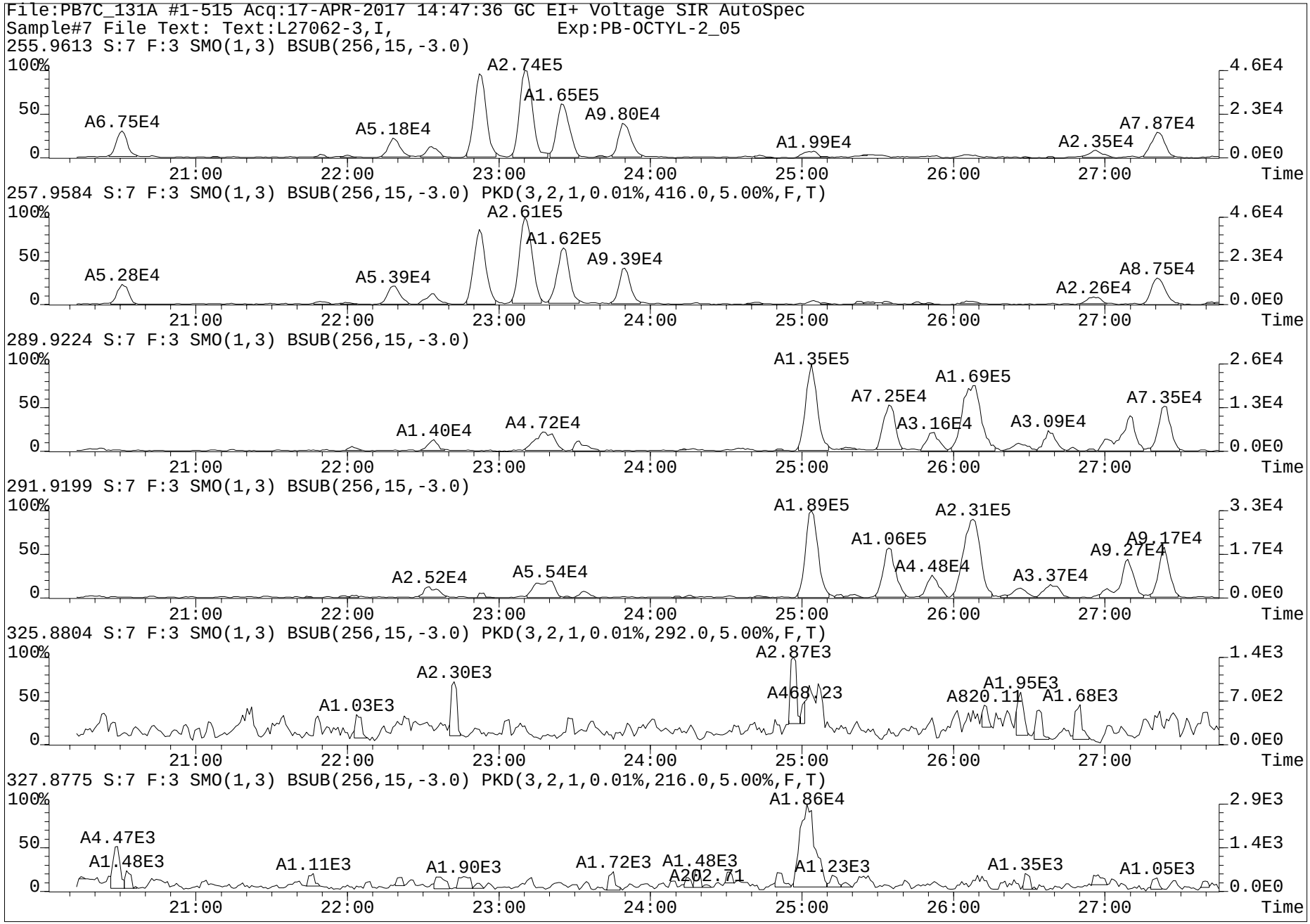

File:PB7C_131A #1-184 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
188.0393 S:7 SMO(1,3) BSUB(256,15,-3.0)
A7.61E4
A6.49E4
A3.47E4
2.3E4
1.1E4
0.0E0
190.0363 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,336.0,5.00%,F,T)
A2.67E4
A2.31E4
A1.34E4
A932.64
A2.28E3
8.0E3
4.0E3
0.0E0
200.0795 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,564.0,5.00%,F,T)
A3.31E7
A3.29E7
9.7E6
4.9E6
0.0E0
202.0766 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,21728.0,5.00%,F,T)
A1.08E7
A1.08E7
3.2E6
1.6E6
0.0E0
218.9856 S:7
11:06
11:33
11:48
12:12
12:22
12:32
12:46
13:10
13:31
13:49
9.4E5
4.7E5
0.0E0
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

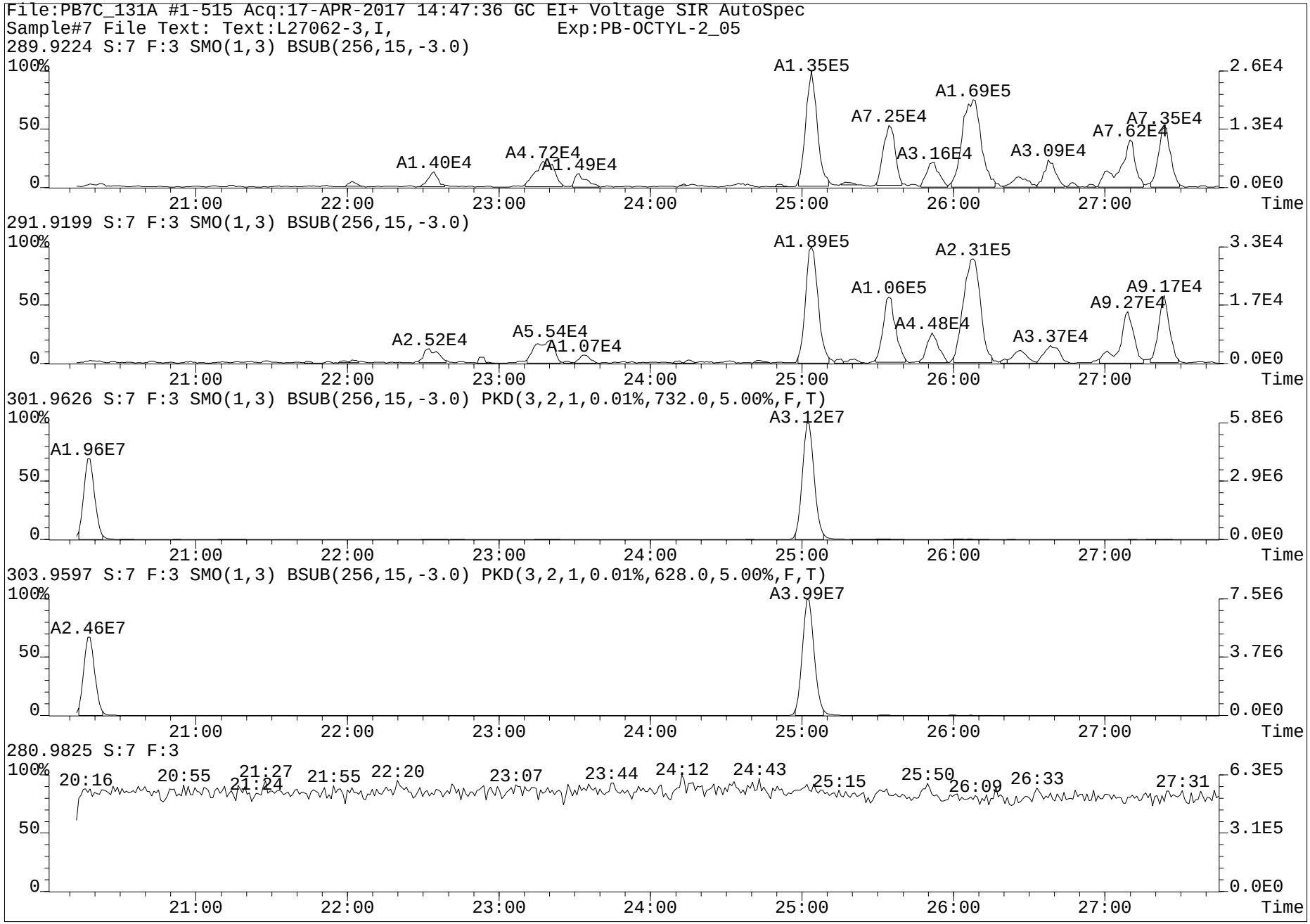

File:PB7C_131A #1-366 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
222.0003 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.24E6
A1.20E5
A7.78E4
223.9974 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A7.72E5
A8.06E4
A4.45E4
234.0406 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3892.0,5.00%,F,T)
A7.48E7
A3.68E7
236.0376 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1092.0,5.00%,F,T)
A4.84E7
A2.34E7
242.9856 S:7 F:2
14:19
14:47
14:56
15:15
15:53
16:18
16:43
17:11
17:34
17:57
18:25
19:04
19:31
20:02
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
2.2E5
1.1E5
0.0E0
1.4E5
6.9E4
1.6E7
8.1E6
1.1E7
5.3E6

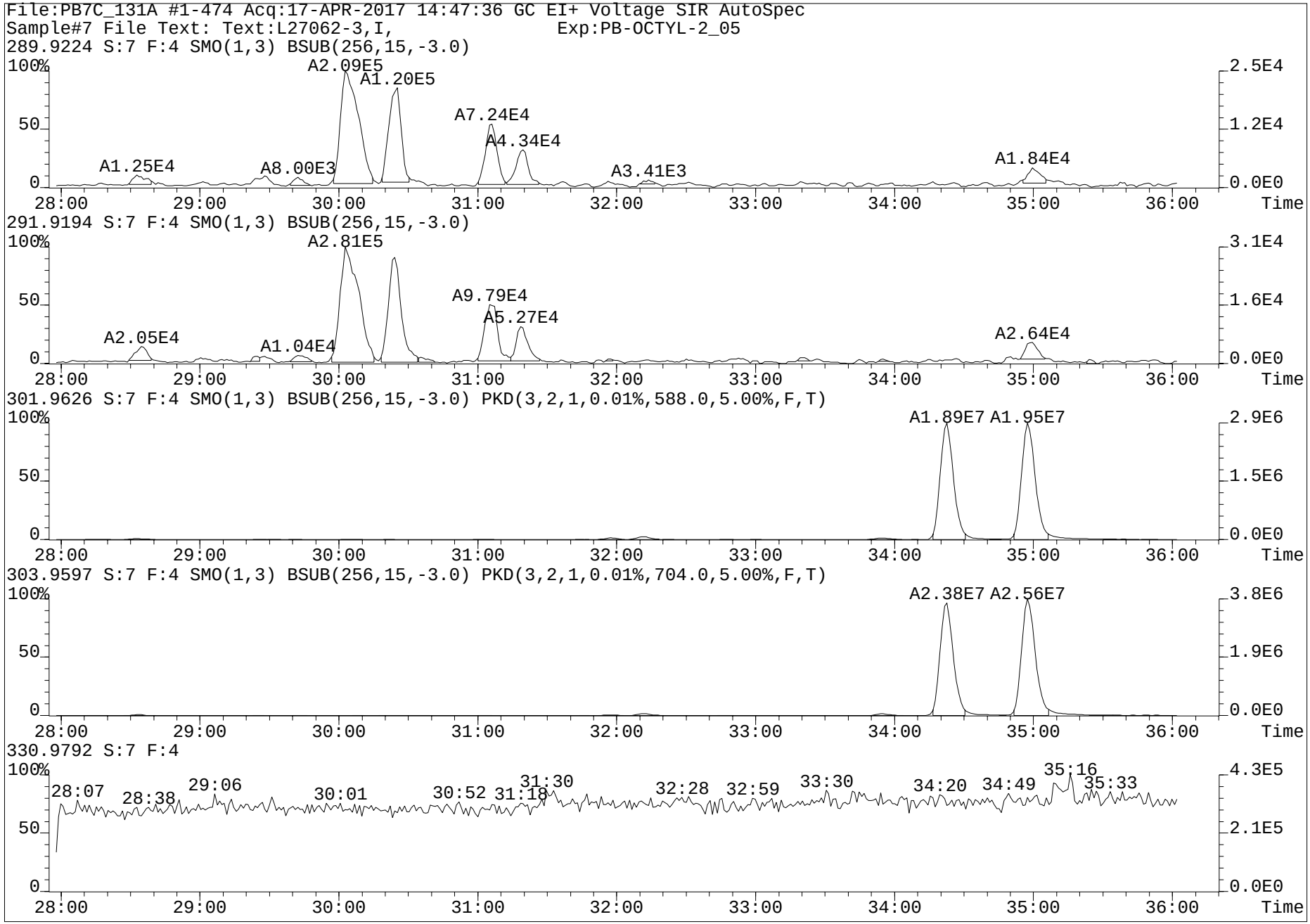

File:PB7C_131A #1-366 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
222.0003 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.24E6
A1.20E5
A7.78E4
223.9974 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A7.72E5
A8.06E4
A4.45E4
255.9613 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.54E5
A6.34E4
A1.22E4
A1.44E4
A1.21E4
A1.30E4
257.9584 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.54E5
A5.70E4
A5.34E4
A1.75E4
A8.80E3
100%
80
60
40
20
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
2.2E5
1.8E5
1.3E5
8.9E4
4.4E4
0.0E0
1.4E5
1.1E5
8.3E4
5.5E4
2.8E4
3.3E4
2.7E4
2.0E4
1.3E4
6.7E3
2.9E4
2.3E4
1.7E4
1.1E4
5.7E3

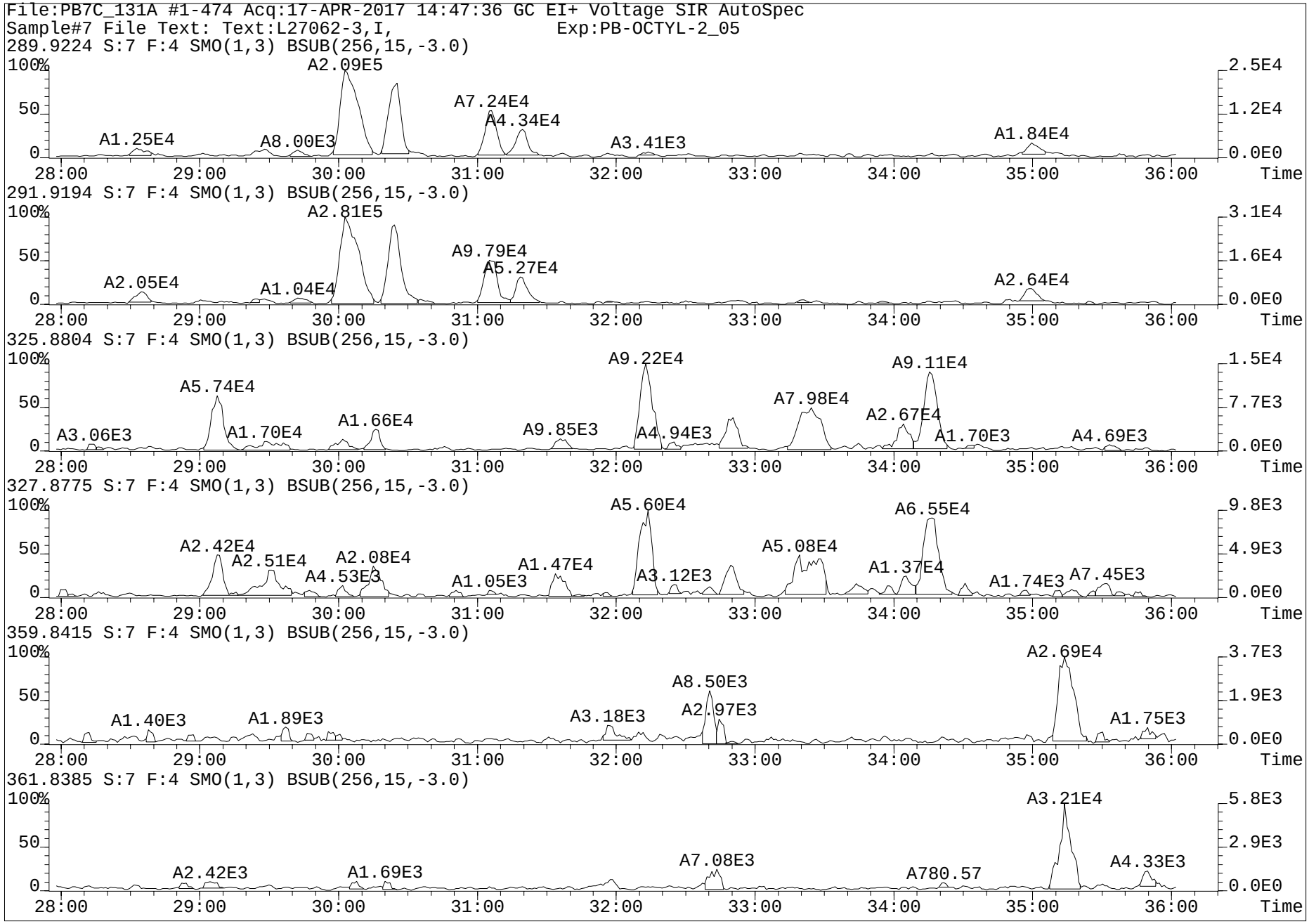

File:PB7C_131A #1-366 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
255.9613 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.54E5
A6.34E4
A5.33E4
A1.30E4
A1.21E4
257.9584 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0)
A1.54E5
A5.34E4
A5.70E4
A1.75E4
A8.80E3
268.0016 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6436.0,5.00%,F,T)
A1.77E7
269.9986 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2724.0,5.00%,F,T)
A1.75E7
242.9856 S:7 F:2
17:00
17:11
17:34
17:57
18:25
18:39
19:12
19:31
19:48
20:02
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

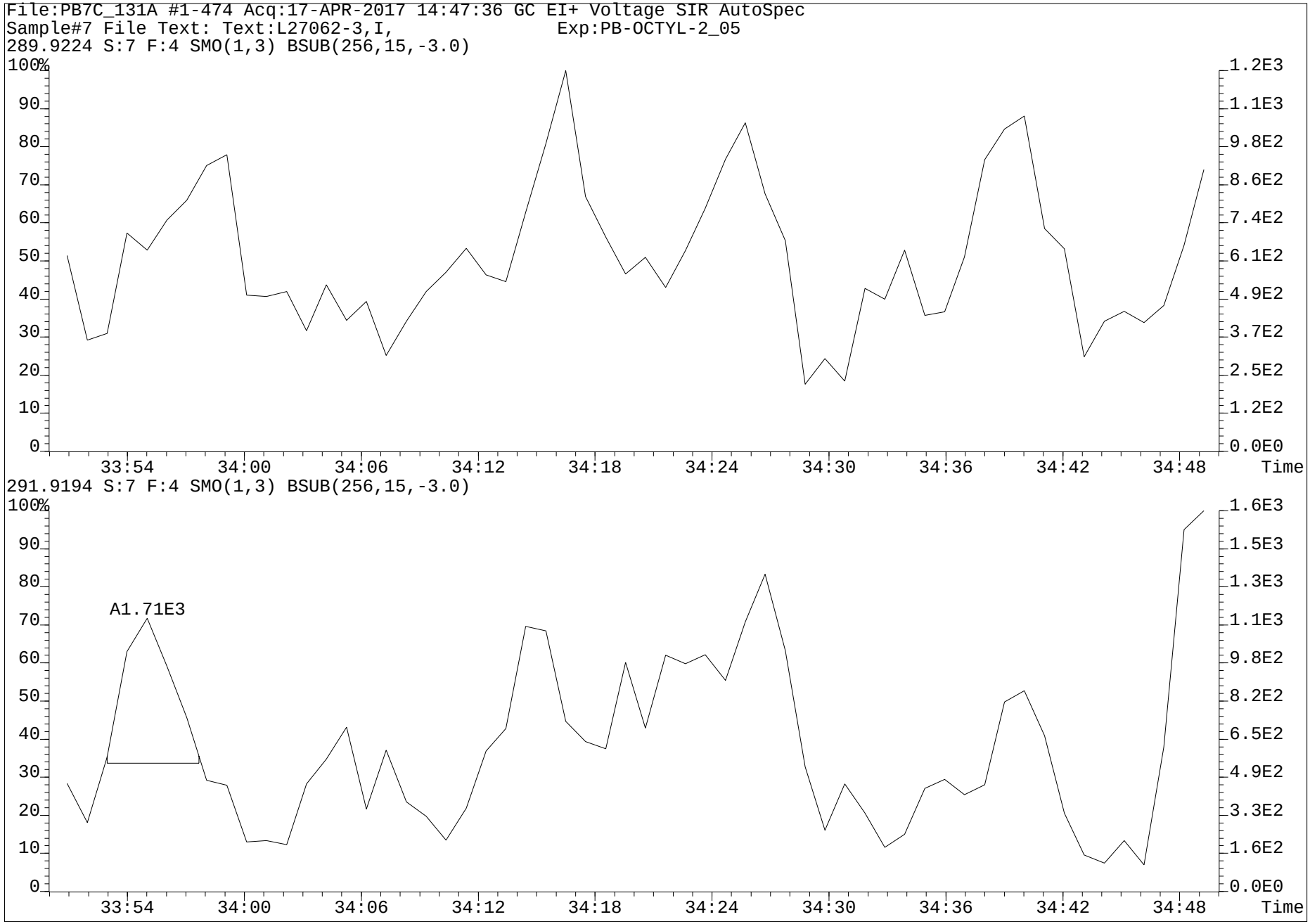

File:PB7C_131A #1-515 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
255.9613 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A6.75E4
A5.18E4
A2.74E5
A1.65E5
A9.80E4
A1.99E4
A2.35E4
A7.87E4
257.9584 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,416.0,5.00%,F,T)
A5.28E4
A5.39E4
A2.13E5
A2.61E5
A1.62E5
A9.39E4
A2.26E4
A8.75E4
268.0016 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8532.0,5.00%,F,T)
A4.82E6
A3.53E7
A8.48E6
A2.48E7
269.9986 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4716.0,5.00%,F,T)
A3.40E7
A2.35E7
280.9825 S:7 F:3
20:16
20:55
21:27
21:24
21:55
22:20
23:07
23:44
24:12
24:43
25:15
25:50
26:09
26:33
27:31
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
4.6E4
2.3E4
0.0E0
6.5E6
3.3E6
6.3E6
3.2E6
6.3E5
3.1E5

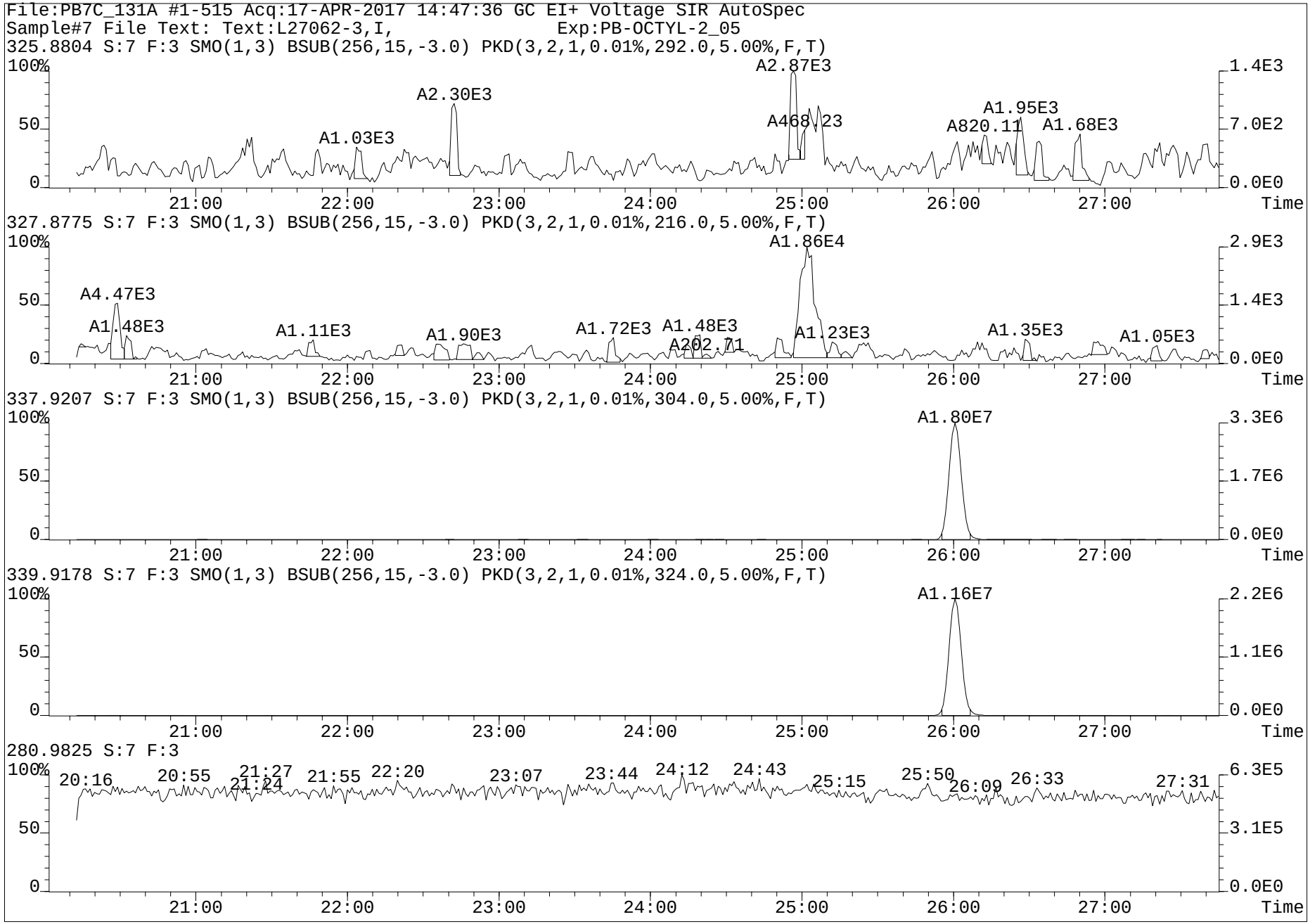

File:PB7C_131A #1-515 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
255.9613 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A6.75E4
A5.18E4
A2.74E5
A1.65E5
A9.80E4
A1.99E4
A2.35E4
A7.87E4
257.9584 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,416.0,5.00%,F,T)
A5.28E4
A5.39E4
A2.61E5
A1.62E5
A9.39E4
A2.26E4
A8.75E4
289.9224 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.40E4
A4.72E4
A1.35E5
A7.25E4
A1.69E5
A3.16E4
A3.09E4
A7.35E4
291.9199 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.52E4
A5.54E4
A1.89E5
A1.06E5
A2.31E5
A4.48E4
A3.37E4
A9.27E4
A9.17E4
325.8804 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A1.03E3
A2.30E3
A2.87E3
A468.23
A820.11
A1.95E3
A1.68E3
327.8775 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,216.0,5.00%,F,T)
A4.47E3
A1.48E3
A1.11E3
A1.90E3
A1.72E3
A1.48E3
A202.71
A1.86E4
A1.23E3
A1.35E3
A1.05E3
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
4.6E4
2.3E4
0.0E0
2.6E4
1.3E4
3.3E4
1.7E4
1.4E3
7.0E2
2.9E3
1.4E3

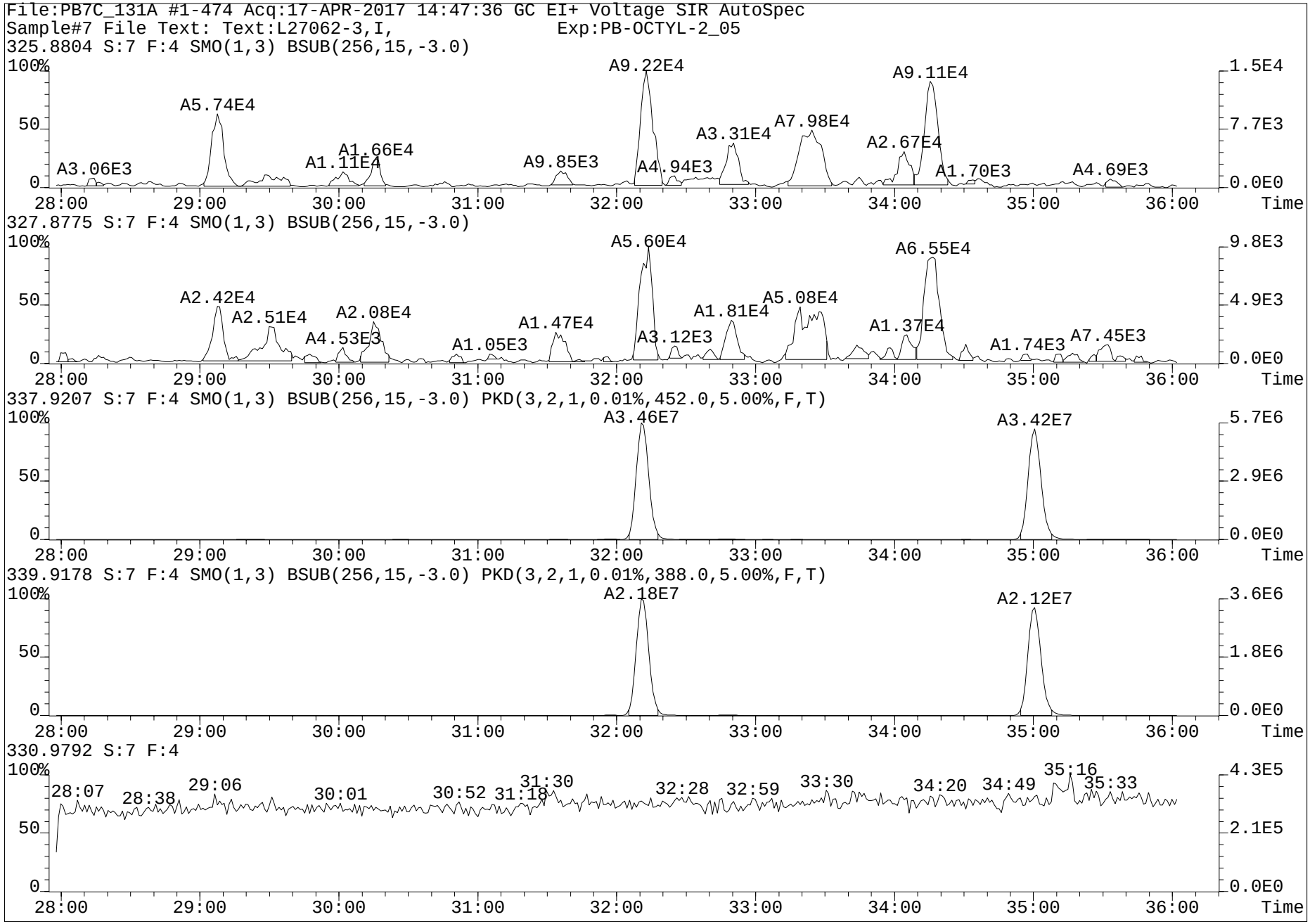

File:PB7C_131A #1-515 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
289.9224 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.35E5
A1.69E5
A7.25E4
A7.35E4
A7.62E4
A3.16E4
A3.09E4
A1.40E4
A4.72E4
A1.49E4
291.9199 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.89E5
A2.31E5
A1.06E5
A9.17E4
A9.27E4
A4.48E4
A3.37E4
A2.52E4
A5.54E4
A1.07E4
301.9626 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,732.0,5.00%,F,T)
A3.12E7
A1.96E7
303.9597 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,628.0,5.00%,F,T)
A3.99E7
A2.46E7
280.9825 S:7 F:3
20:16
20:55
21:27
21:24
21:55
22:20
23:07
23:44
24:12
24:43
25:15
25:50
26:09
26:33
27:31
Time

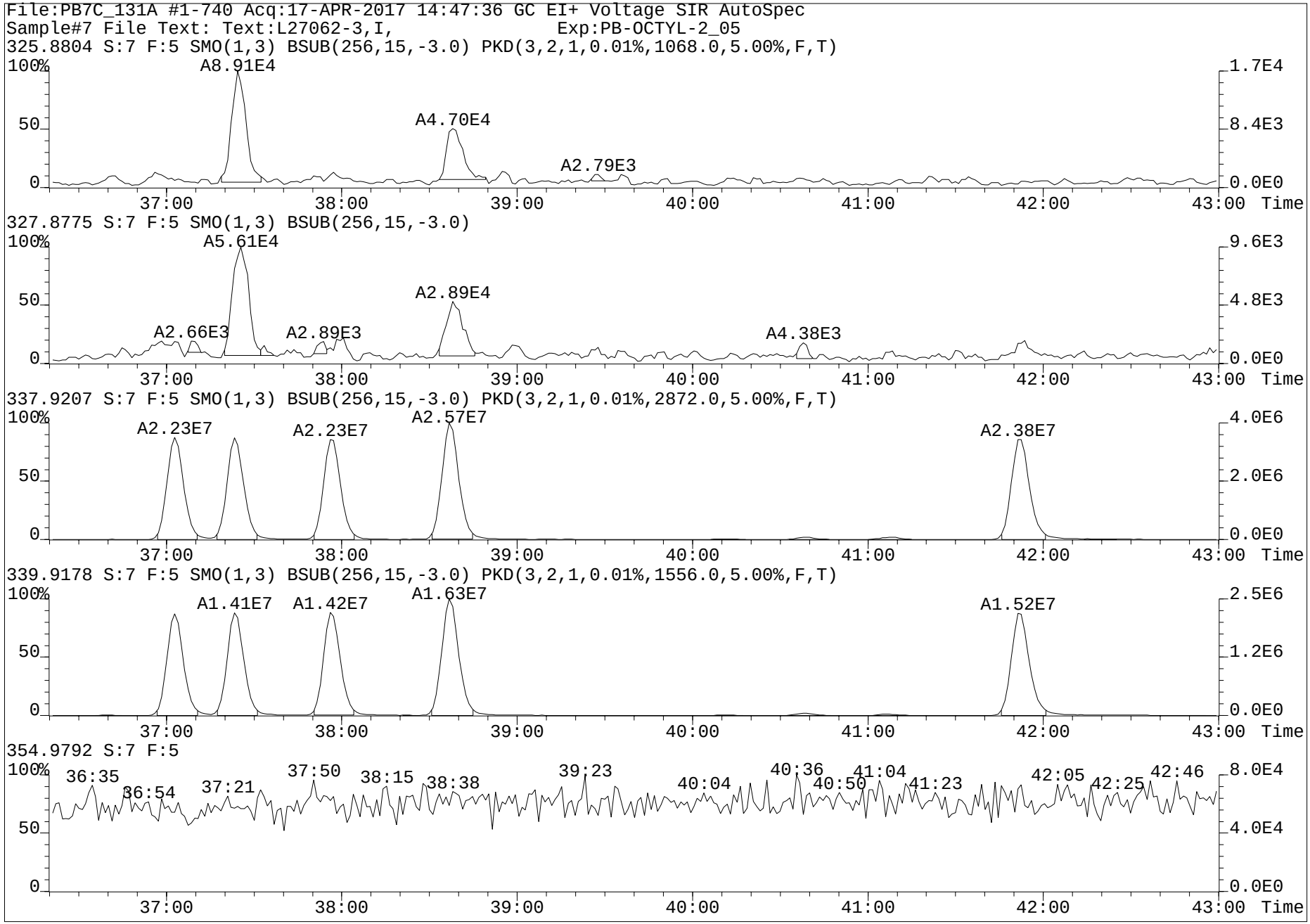

File:PB7C_131A #1-474 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
289.9224 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.09E5
A1.20E5
A7.24E4
A4.34E4
A1.25E4
A8.00E3
A3.41E3
A1.84E4
291.9194 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.81E5
A9.79E4
A5.27E4
A2.05E4
A1.04E4
A2.64E4
301.9626 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,588.0,5.00%,F,T)
A1.89E7
A1.95E7
303.9597 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,704.0,5.00%,F,T)
A2.38E7
A2.56E7
330.9792 S:7 F:4
28:07
28:38
29:06
30:01
30:52
31:18
31:30
32:28
32:59
33:30
34:20
34:49
35:16
35:33
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
2.5E4
1.2E4
0.0E0
3.1E4
1.6E4
2.9E6
1.5E6
3.8E6
1.9E6
4.3E5
2.1E5

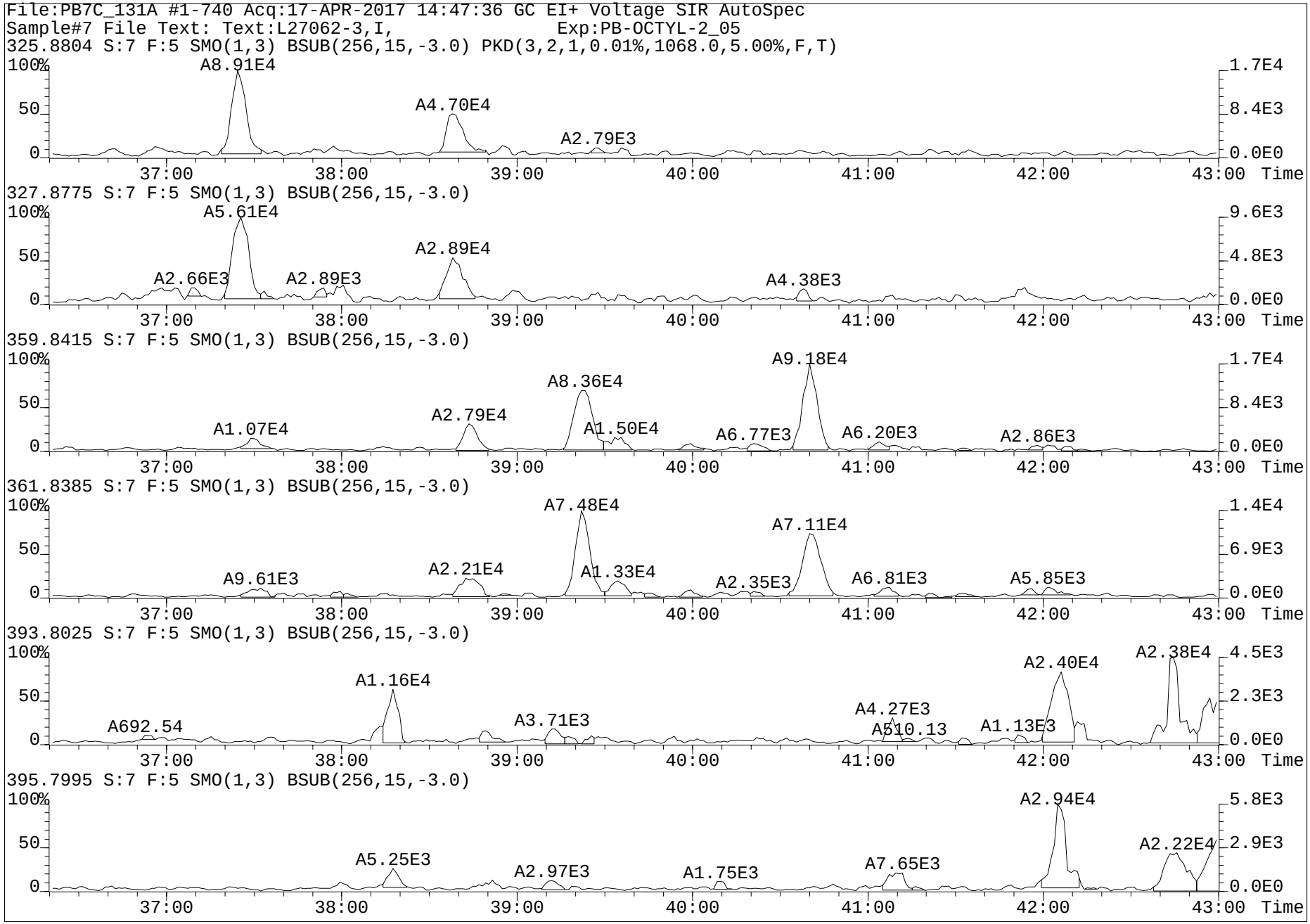

File:PB7C_131A #1-474 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
289.9224 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.09E5
A7.24E4
A4.34E4
A1.25E4
A8.00E3
A3.41E3
A1.84E4
291.9194 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.81E5
A9.79E4
A5.27E4
A2.05E4
A1.04E4
A2.64E4
325.8804 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A9.22E4
A9.11E4
A5.74E4
A7.98E4
A2.67E4
A1.66E4
A3.06E3
A1.70E4
A9.85E3
A4.94E3
A1.70E3
A4.69E3
327.8775 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A5.60E4
A6.55E4
A2.42E4
A5.08E4
A2.51E4
A2.08E4
A1.47E4
A4.53E3
A1.05E3
A3.12E3
A1.37E4
A1.74E3
A7.45E3
359.8415 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.69E4
A8.50E3
A2.97E3
A1.40E3
A1.89E3
A3.18E3
A1.75E3
361.8385 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.21E4
A7.08E3
A2.42E3
A1.69E3
A780.57
A4.33E3
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
2.5E4
1.2E4
0.0E0
3.1E4
1.6E4
1.5E4
7.7E3
9.8E3
4.9E3
3.7E3
1.9E3
5.8E3
2.9E3

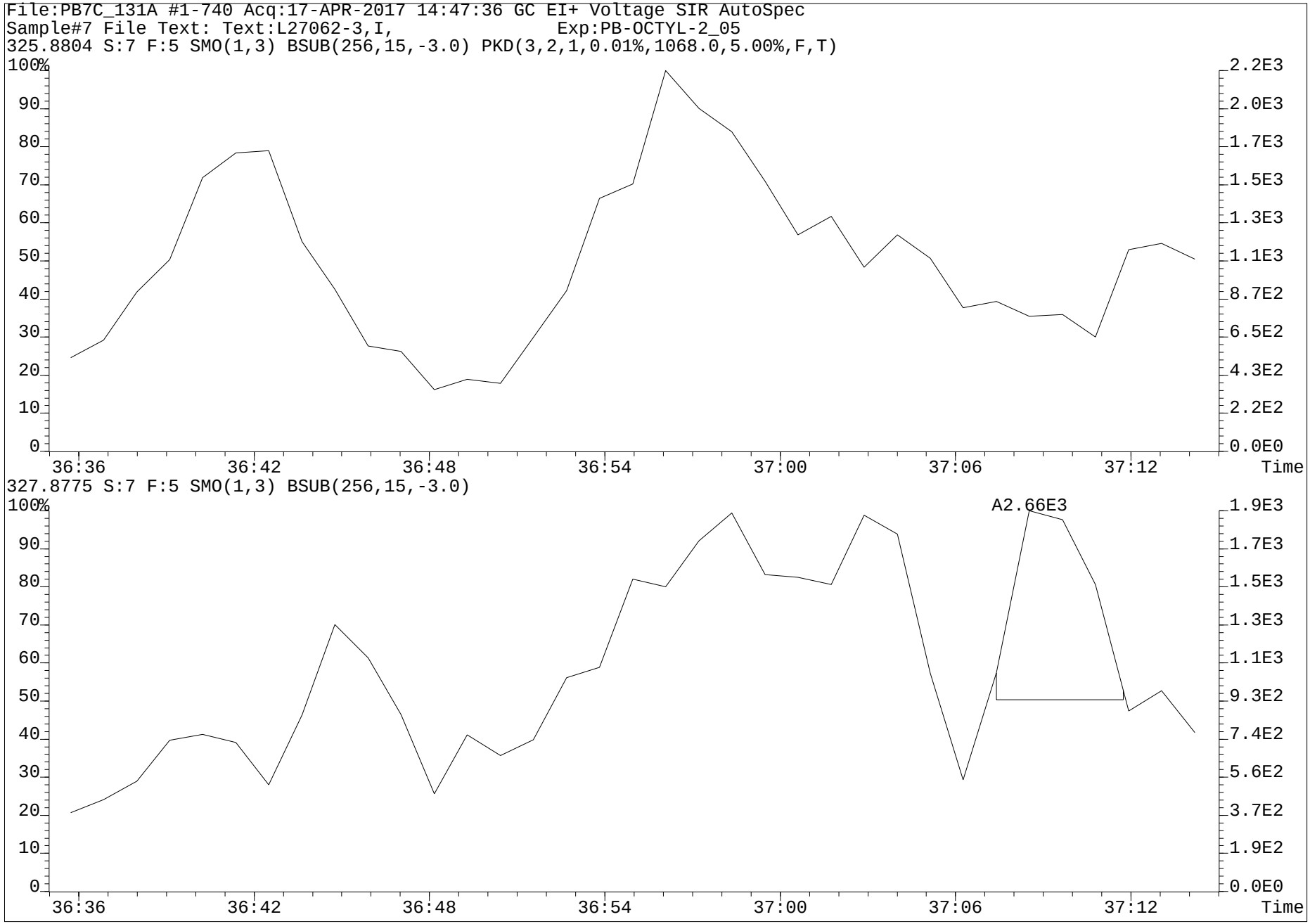

File:PB7C_131A #1-474 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
289.9224 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
1.2E3
1.1E3
9.8E2
8.6E2
7.4E2
6.1E2
4.9E2
3.7E2
2.5E2
1.2E2
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time
291.9194 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
A1.71E3
1.6E3
1.5E3
1.3E3
1.1E3
9.8E2
8.2E2
6.5E2
4.9E2
3.3E2
1.6E2
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time

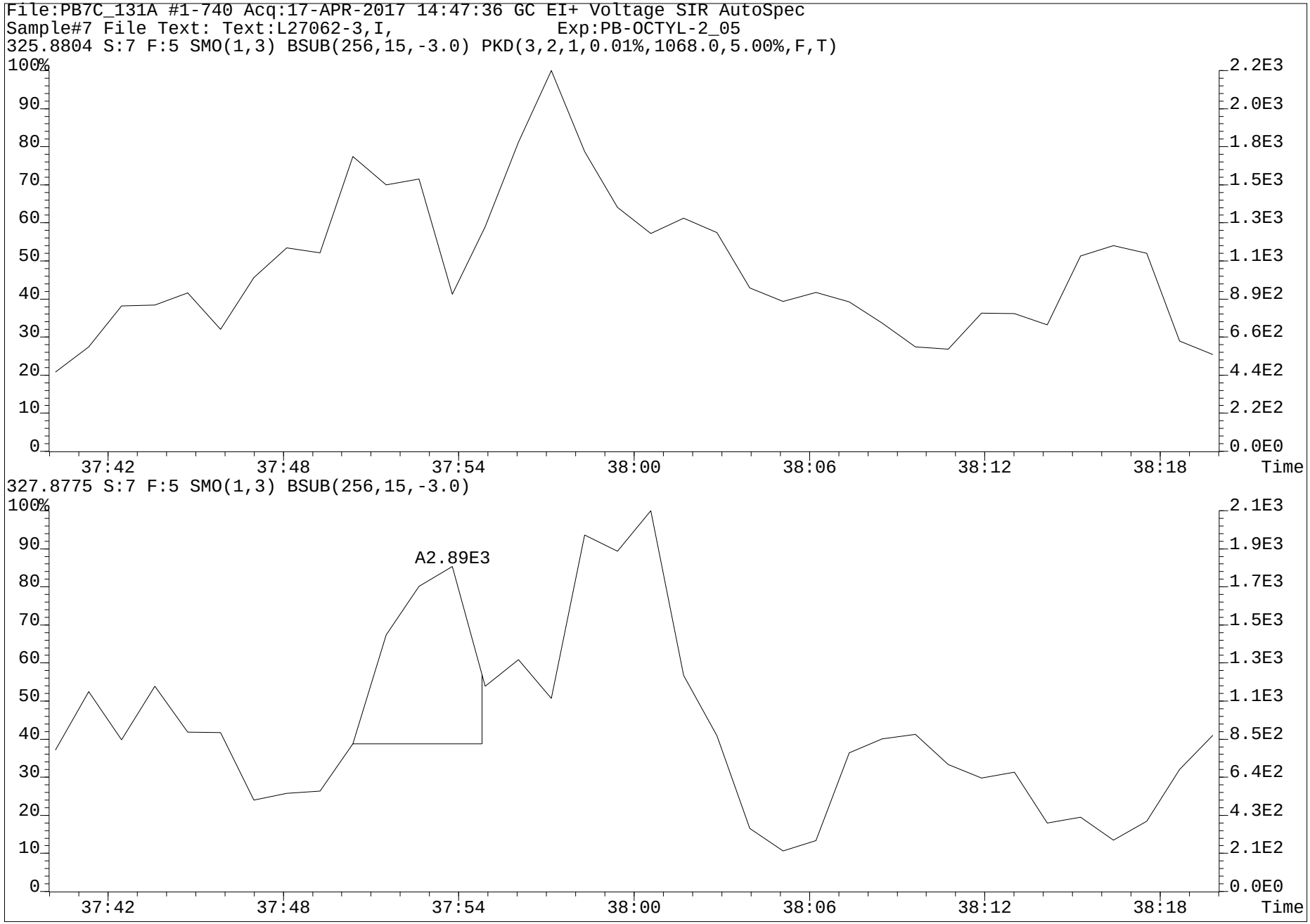

File:PB7C_131A #1-515 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A2.87E3
A2.30E3
A1.03E3
A468.23
A1.95E3
A820.11
A1.68E3
327.8775 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,216.0,5.00%,F,T)
A1.86E4
A4.47E3
A1.48E3
A1.11E3
A1.90E3
A1.72E3
A1.48E3
A202.71
A1.23E3
A1.35E3
A1.05E3
337.9207 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.80E7
339.9178 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,324.0,5.00%,F,T)
A1.16E7
280.9825 S:7 F:3
20:16
20:55
21:27
21:24
21:55
22:20
23:07
23:44
24:12
24:43
25:15
25:50
26:09
26:33
27:31
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.4E3
7.0E2
0.0E0
2.9E3
1.4E3
0.0E0
3.3E6
1.7E6
0.0E0
2.2E6
1.1E6
0.0E0
6.3E5
3.1E5
0.0E0

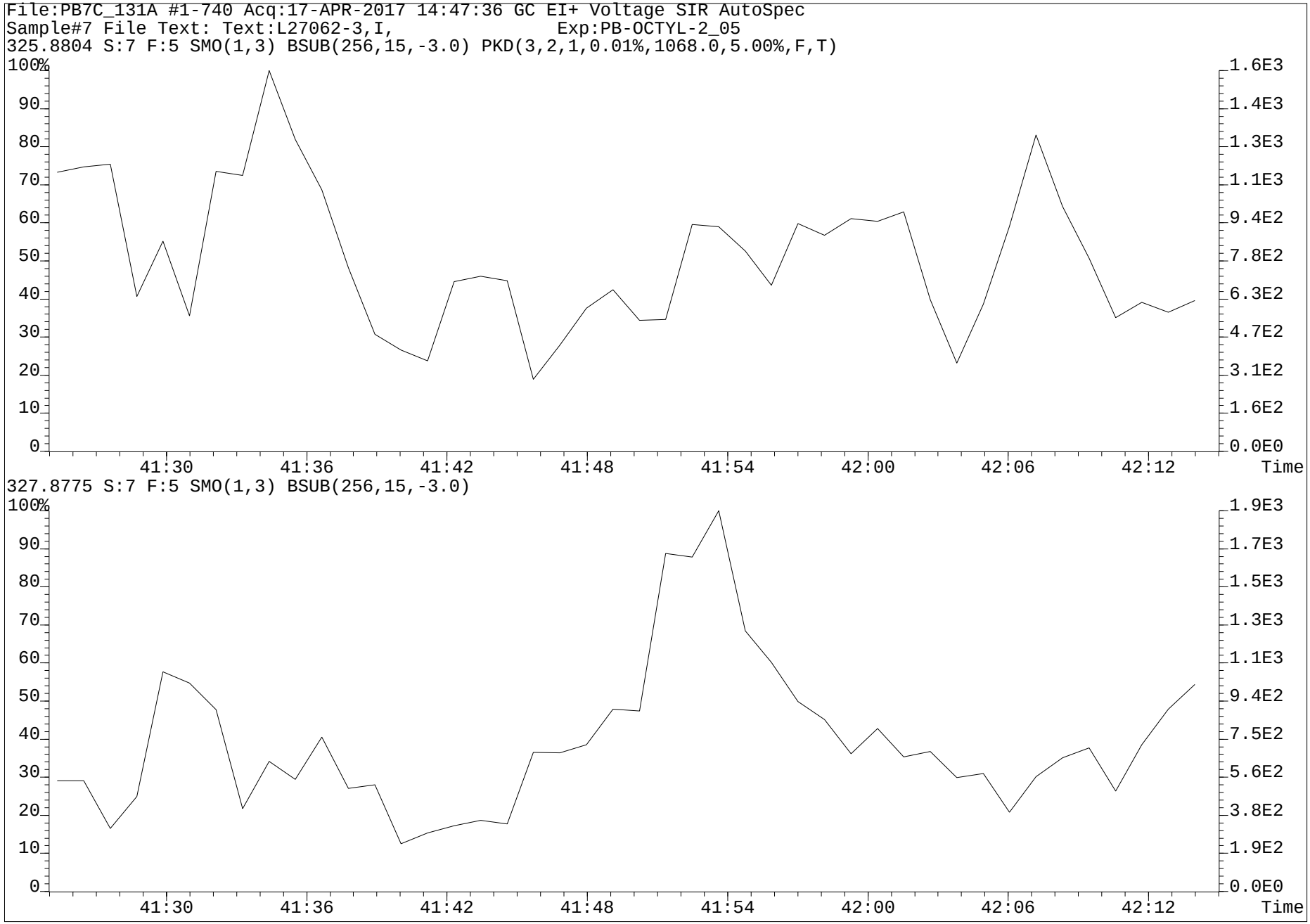

File:PB7C_131A #1-474 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.06E3
A5.74E4
A1.11E4
A1.66E4
A9.85E3
A9.22E4
A4.94E3
A3.31E4
A7.98E4
A2.67E4
A9.11E4
A1.70E3
A4.69E3
327.8775 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.42E4
A2.51E4
A4.53E3
A2.08E4
A1.05E3
A1.47E4
A5.60E4
A3.12E3
A1.81E4
A5.08E4
A1.37E4
A6.55E4
A1.74E3
A7.45E3
337.9207 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,452.0,5.00%,F,T)
A3.46E7
A3.42E7
339.9178 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,388.0,5.00%,F,T)
A2.18E7
A2.12E7
330.9792 S:7 F:4
28:07
28:38
29:06
30:01
30:52
31:18
31:30
32:28
32:59
33:30
34:20
34:49
35:16
35:33
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
1.5E4
7.7E3
0.0E0
9.8E3
4.9E3
5.7E6
2.9E6
3.6E6
1.8E6
4.3E5
2.1E5

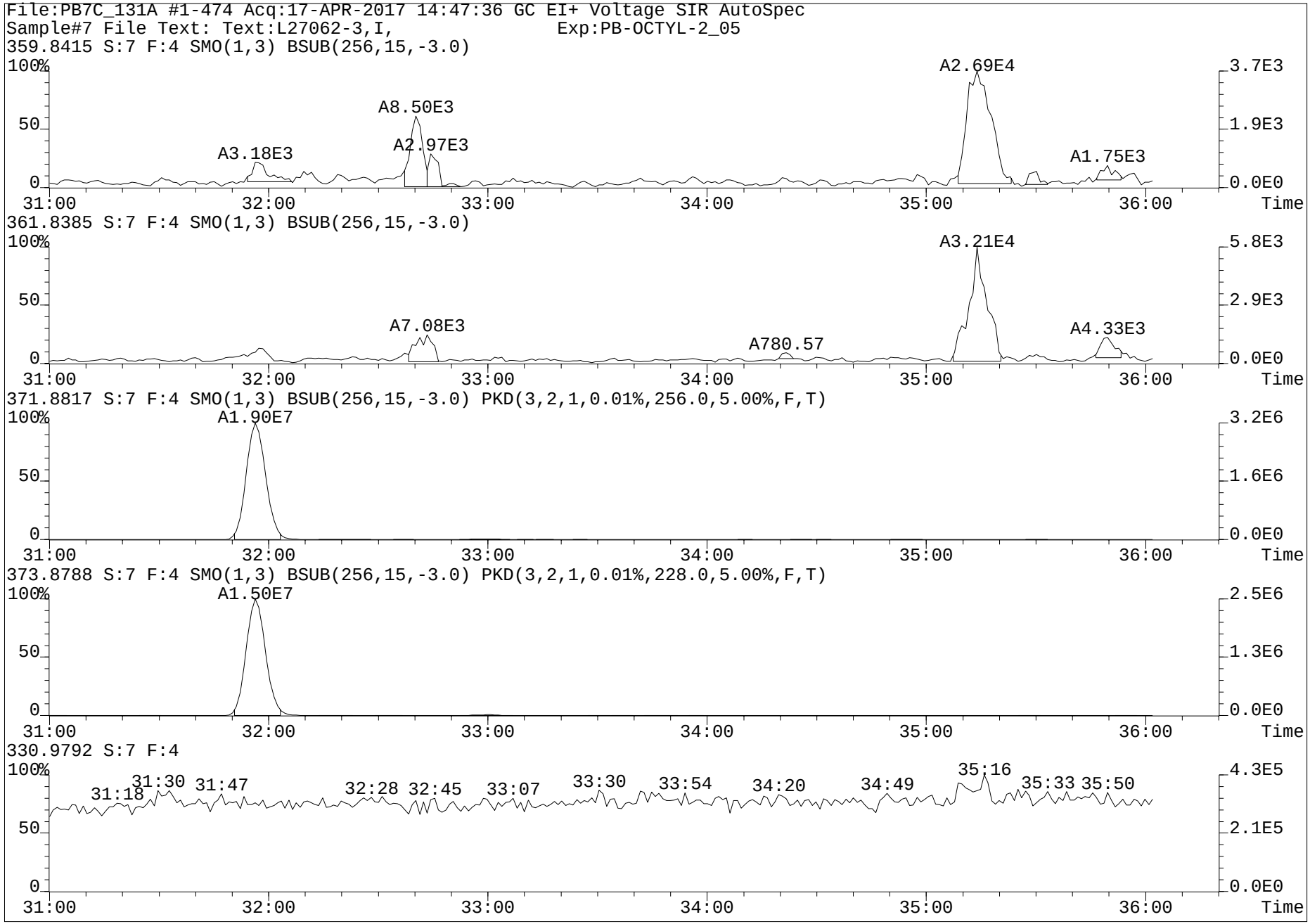

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
A8.91E4
A4.70E4
A2.79E3
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.61E4
A2.89E4
A2.66E3
A2.89E3
A4.38E3
337.9207 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2872.0,5.00%,F,T)
A2.23E7
A2.23E7
A2.57E7
A2.38E7
339.9178 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1556.0,5.00%,F,T)
A1.41E7
A1.42E7
A1.63E7
A1.52E7
354.9792 S:7 F:5
36:35
36:54
37:21
37:50
38:15
38:38
39:23
40:04
40:36
40:50
41:04
41:23
42:05
42:25
42:46
Time

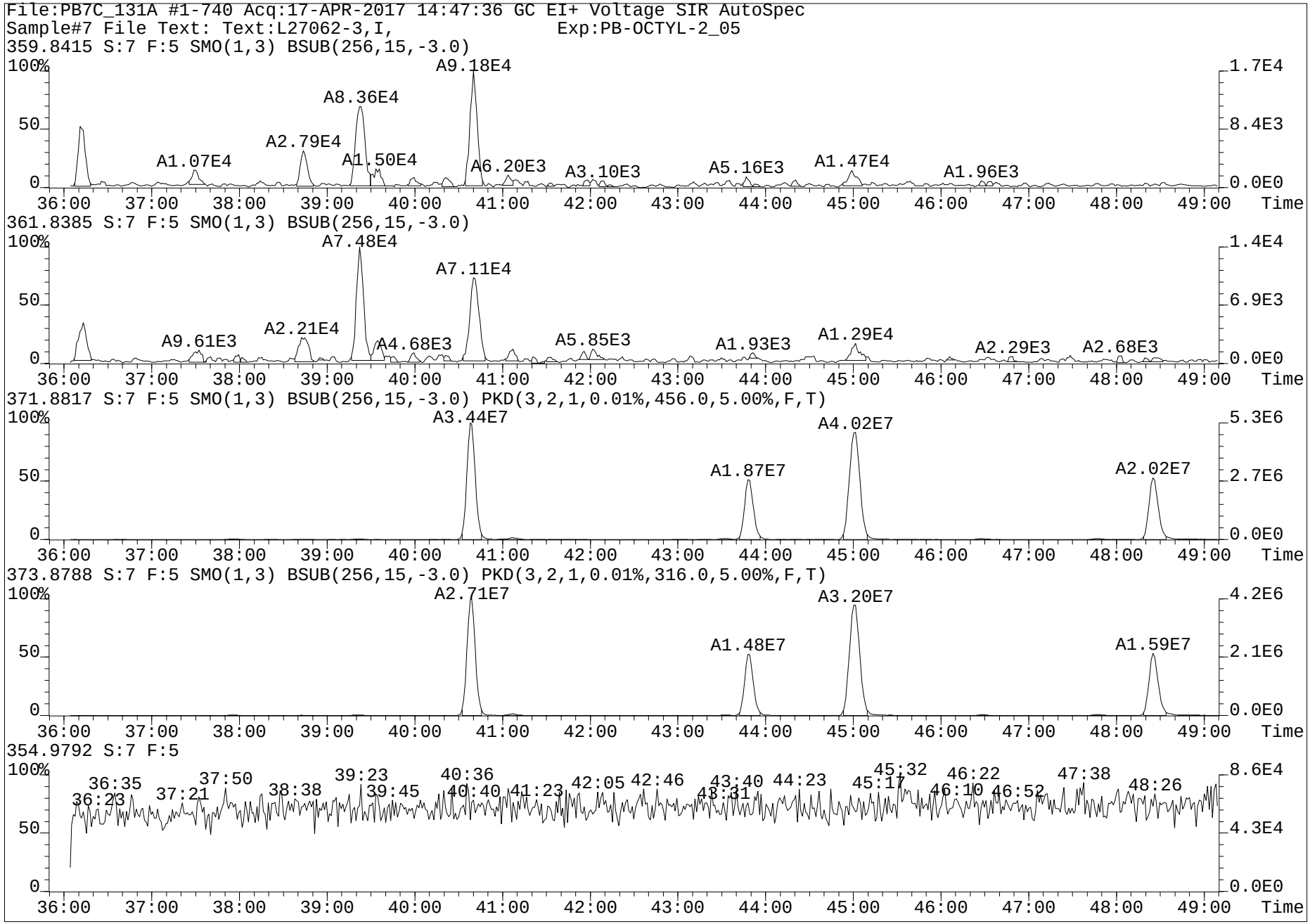

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
A8.91E4
A4.70E4
A2.79E3
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.61E4
A2.89E4
A2.66E3
A2.89E3
A4.38E3
359.8415 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.18E4
A8.36E4
A2.79E4
A1.07E4
A1.50E4
A6.77E3
A6.20E3
A2.86E3
361.8385 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.48E4
A7.11E4
A2.21E4
A1.33E4
A9.61E3
A2.35E3
A6.81E3
A5.85E3
393.8025 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.40E4
A2.38E4
A1.16E4
A4.27E3
A3.71E3
A692.54
A510.13
A1.13E3
395.7995 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.94E4
A2.22E4
A5.25E3
A2.97E3
A1.75E3
A7.65E3
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

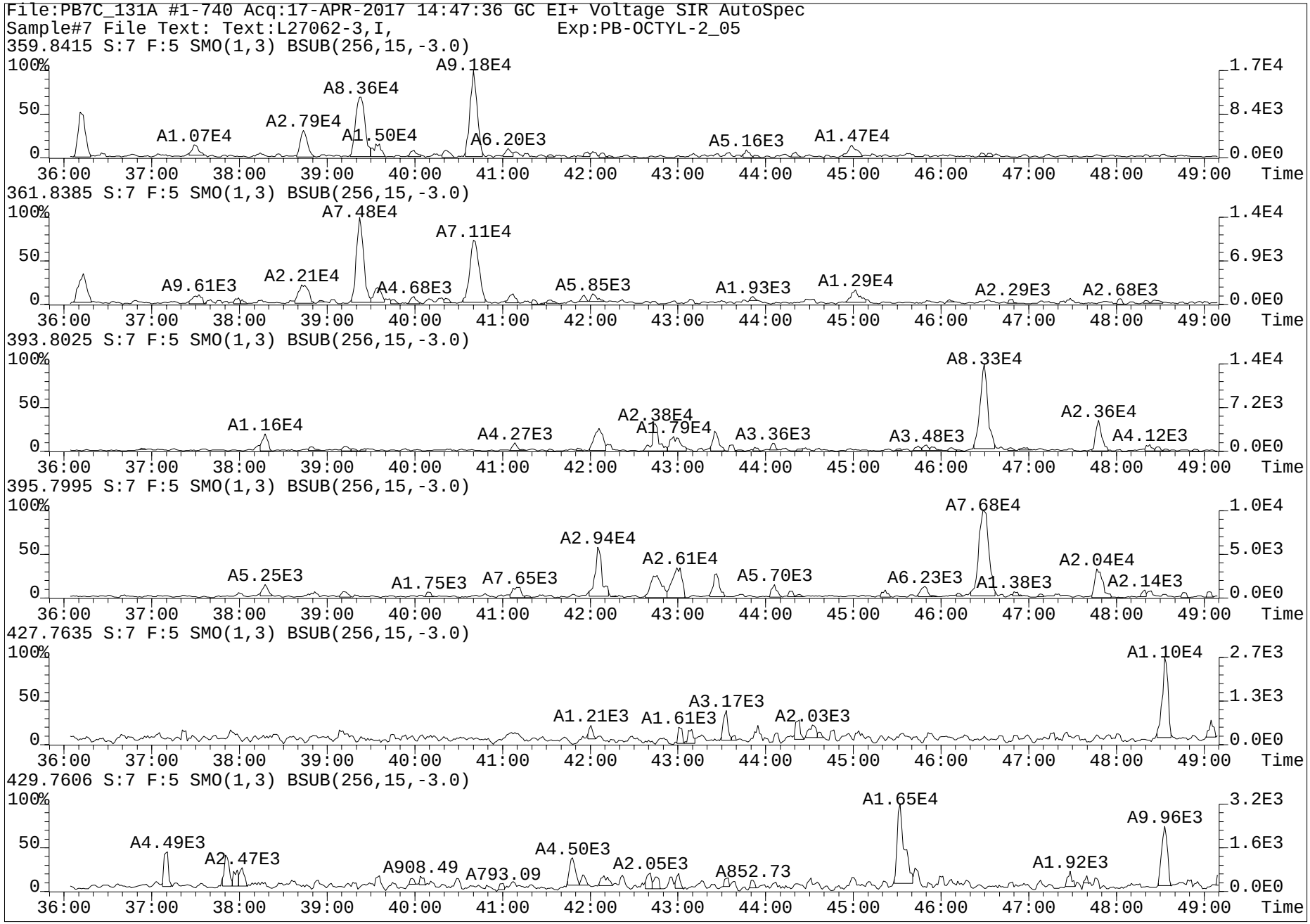

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
2.2E3
2.0E3
1.7E3
1.5E3
1.3E3
1.1E3
8.7E2
6.5E2
4.3E2
2.2E2
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.66E3
100%
90
80
70
60
50
40
30
20
10
0
1.9E3
1.7E3
1.5E3
1.3E3
1.1E3
9.3E2
7.4E2
5.6E2
3.7E2
1.9E2
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time

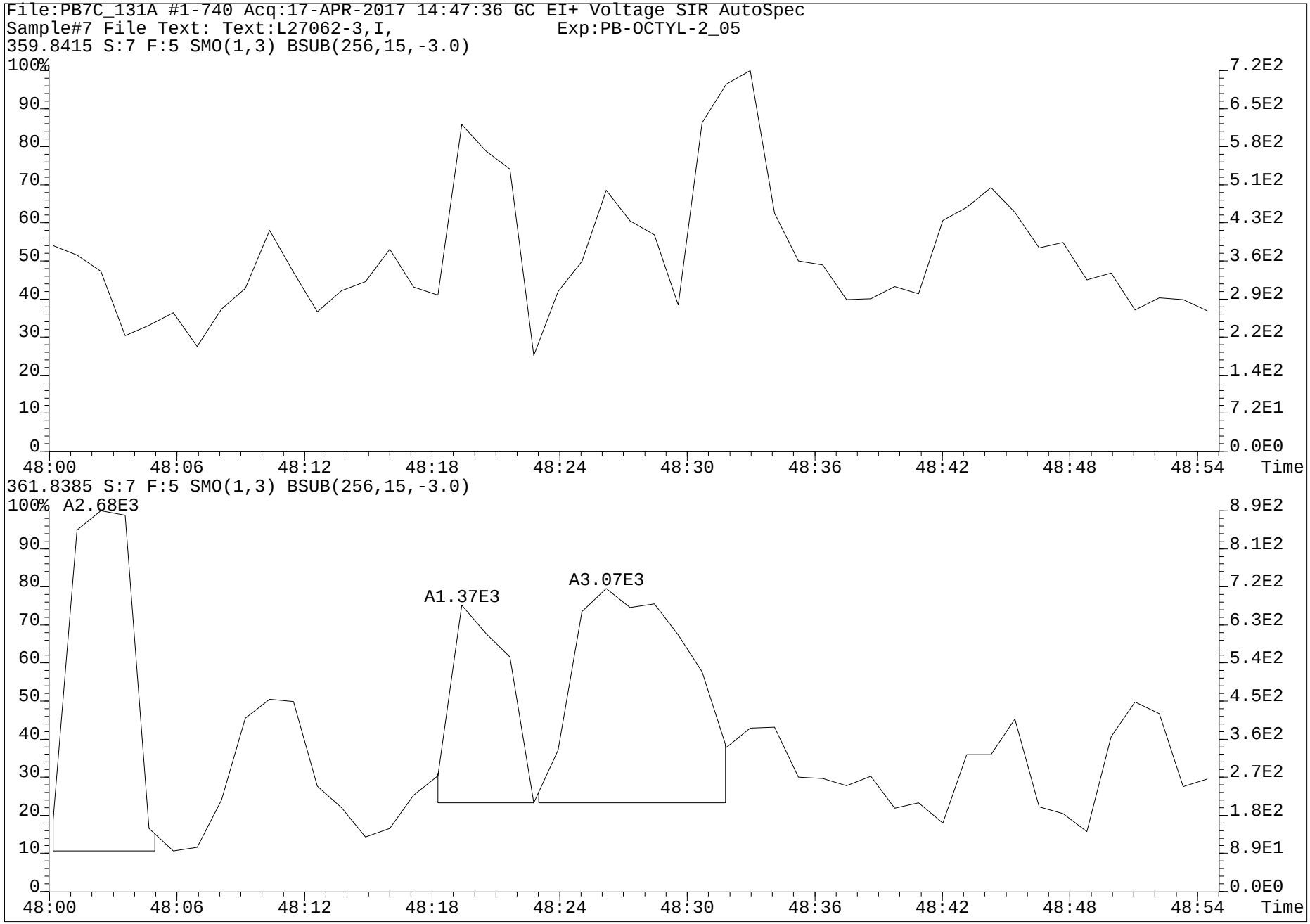

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
2.2E3
2.0E3
1.8E3
1.5E3
1.3E3
1.1E3
8.9E2
6.6E2
4.4E2
2.2E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
A2.89E3
2.1E3
1.9E3
1.7E3
1.5E3
1.3E3
1.1E3
8.5E2
6.4E2
4.3E2
2.1E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time

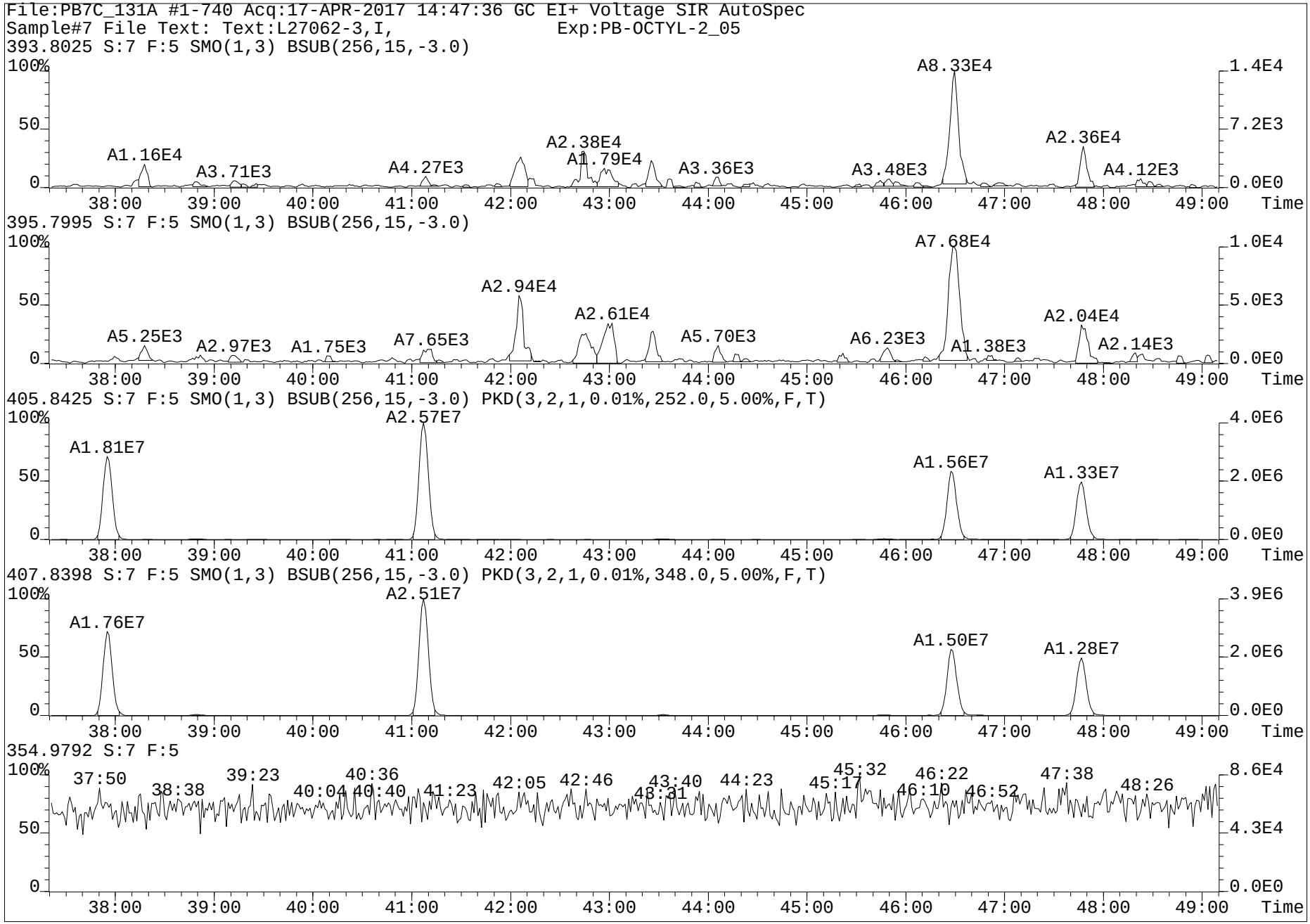

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
1.6E3
1.4E3
1.3E3
1.1E3
9.4E2
7.8E2
6.3E2
4.7E2
3.1E2
1.6E2
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
1.9E3
1.7E3
1.5E3
1.3E3
1.1E3
9.4E2
7.5E2
5.6E2
3.8E2
1.9E2
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

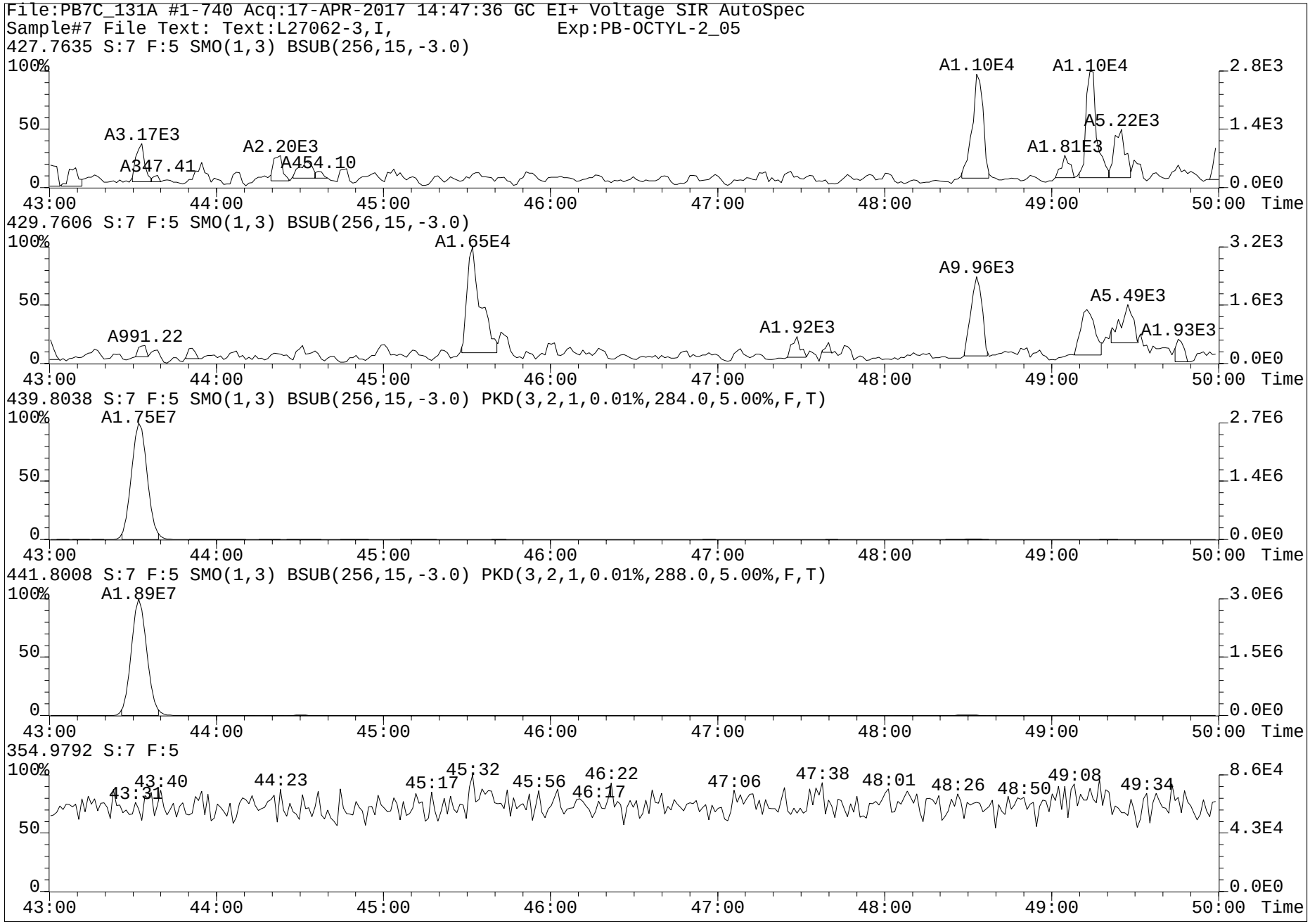

File:PB7C_131A #1-474 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
359.8415 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.69E4
A8.50E3
A2.97E3
A3.18E3
A1.75E3
361.8385 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.21E4
A7.08E3
A780.57
A4.33E3
371.8817 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A1.90E7
373.8788 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,228.0,5.00%,F,T)
A1.50E7
330.9792 S:7 F:4
31:18
31:30
31:47
32:28
32:45
33:07
33:30
33:54
34:20
34:49
35:16
35:33
35:50
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.7E3
1.9E3
0.0E0
5.8E3
2.9E3
3.2E6
1.6E6
2.5E6
1.3E6
4.3E5
2.1E5

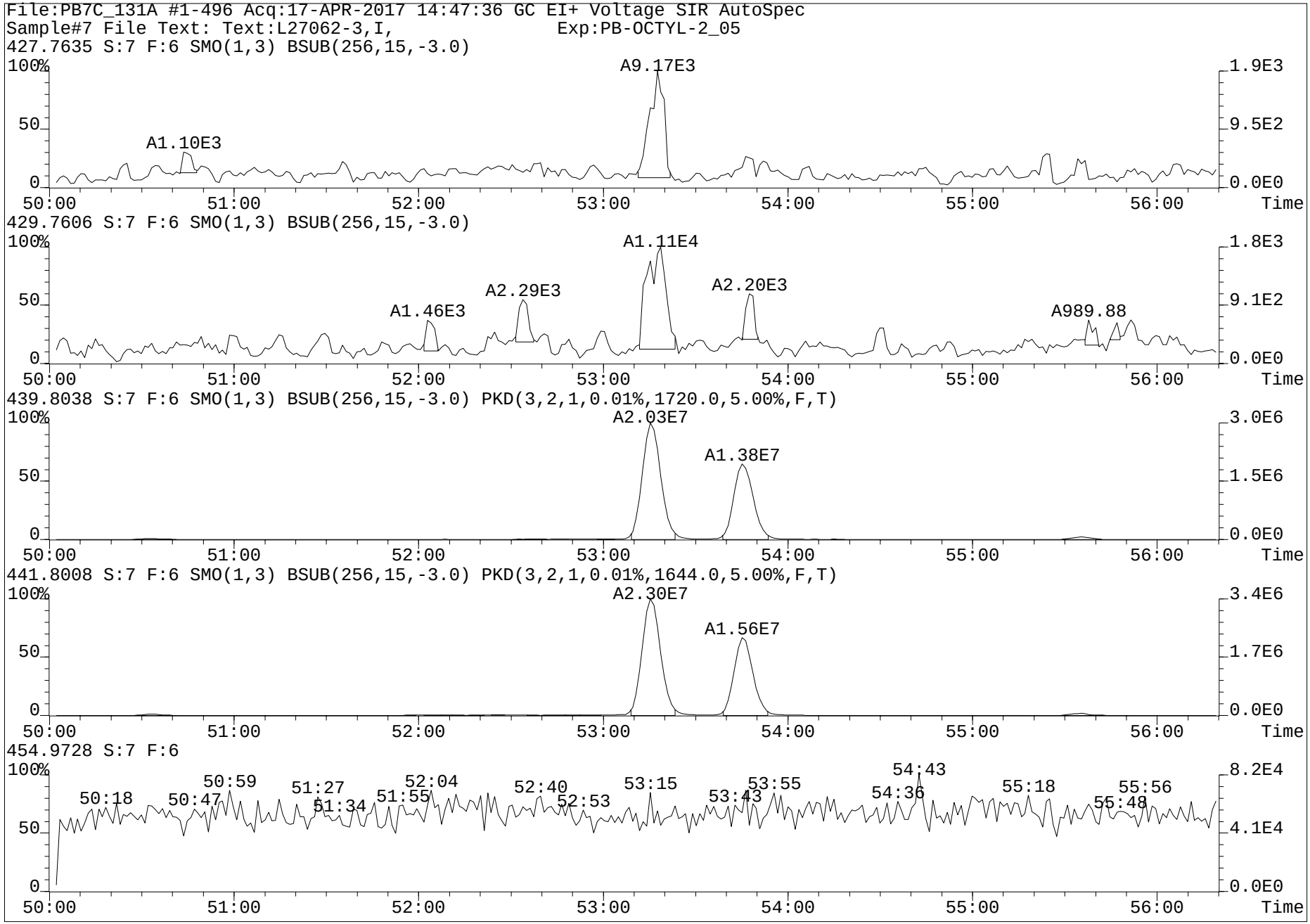

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
359.8415 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.18E4
A8.36E4
A2.79E4
A1.07E4
A1.50E4
A6.20E3
A3.10E3
A5.16E3
A1.47E4
A1.96E3
361.8385 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.48E4
A7.11E4
A9.61E3
A2.21E4
A4.68E3
A5.85E3
A1.93E3
A1.29E4
A2.29E3
A2.68E3
371.8817 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A3.44E7
A4.02E7
A1.87E7
A2.02E7
373.8788 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,316.0,5.00%,F,T)
A2.71E7
A3.20E7
A1.48E7
A1.59E7
354.9792 S:7 F:5
36:23
36:35
37:21
37:50
38:38
39:23
39:45
40:36
40:40
41:23
42:05
42:46
43:31
43:40
44:23
45:17
45:32
46:10
46:22
46:52
47:38
48:26
100%
50
0
1.7E4
8.4E3
0.0E0
1.4E4
6.9E3
5.3E6
2.7E6
4.2E6
2.1E6
8.6E4
4.3E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

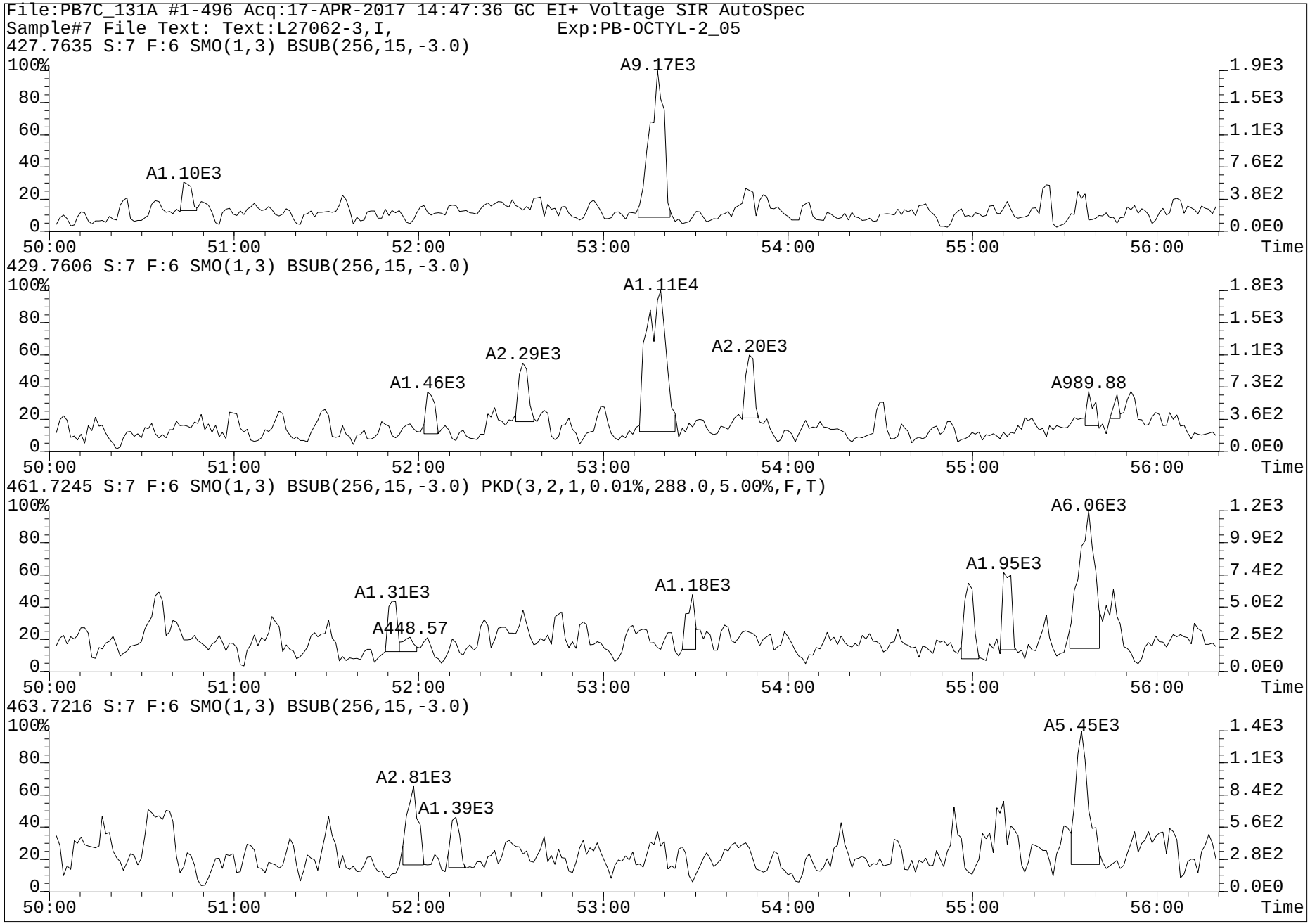

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
359.8415 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.18E4
A8.36E4
A2.79E4
A1.07E4
A1.50E4
A6.20E3
A5.16E3
A1.47E4
361.8385 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.48E4
A7.11E4
A9.61E3
A2.21E4
A4.68E3
A5.85E3
A1.93E3
A1.29E4
A2.29E3
A2.68E3
393.8025 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A8.33E4
A1.16E4
A2.38E4
A1.79E4
A4.27E3
A3.36E3
A3.48E3
A2.36E4
A4.12E3
395.7995 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.68E4
A2.94E4
A2.61E4
A5.25E3
A1.75E3
A7.65E3
A5.70E3
A6.23E3
A1.38E3
A2.04E4
A2.14E3
427.7635 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.10E4
A3.17E3
A1.21E3
A1.61E3
A2.03E3
429.7606 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.65E4
A9.96E3
A4.49E3
A2.47E3
A908.49
A793.09
A4.50E3
A2.05E3
A852.73
A1.92E3
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
1.7E4
8.4E3
0.0E0
1.4E4
6.9E3
0.0E0
1.4E4
7.2E3
0.0E0
1.0E4
5.0E3
0.0E0
2.7E3
1.3E3
0.0E0
3.2E3
1.6E3
0.0E0

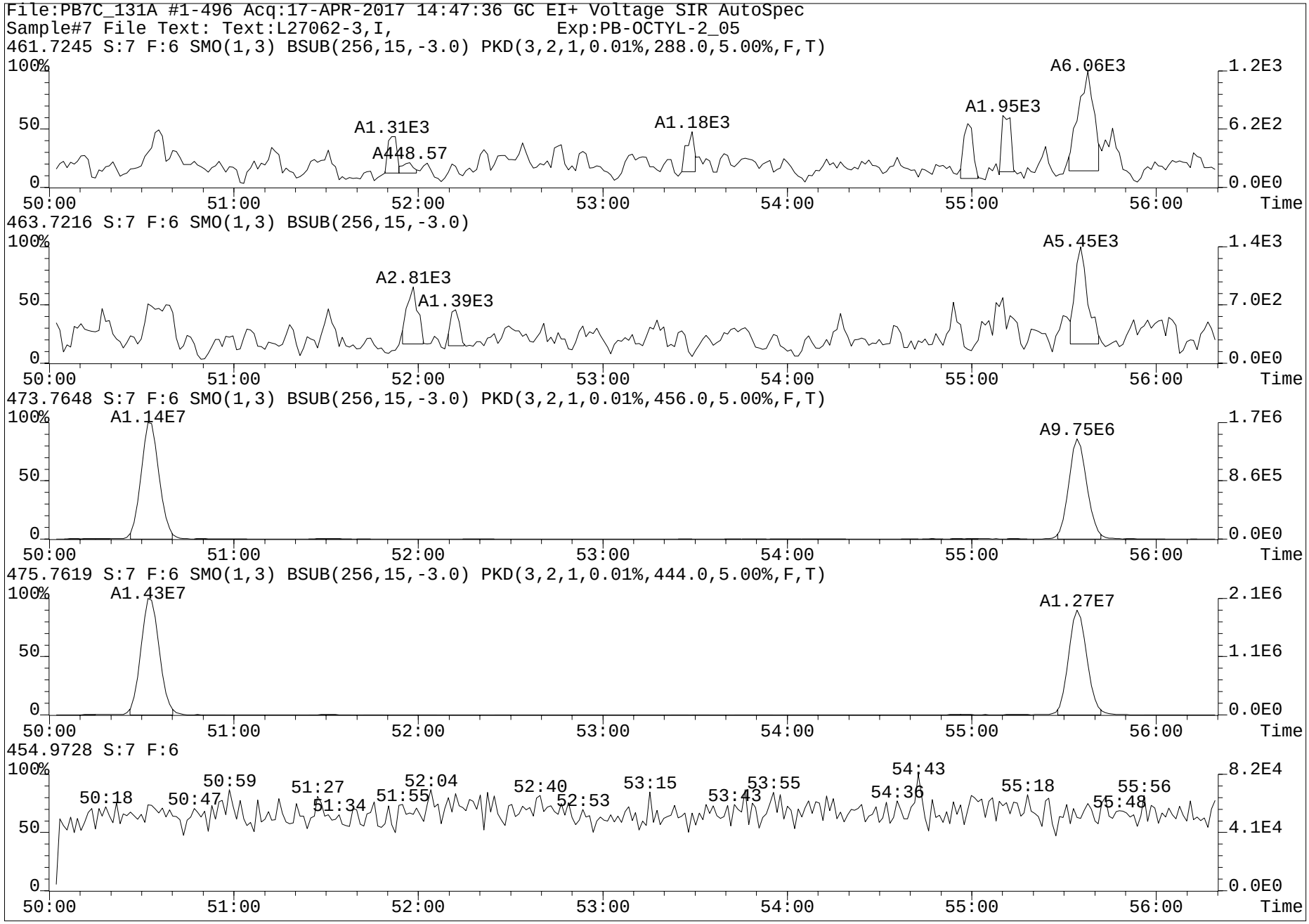

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
359.8415 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
7.2E2
6.5E2
5.8E2
5.1E2
4.3E2
3.6E2
2.9E2
2.2E2
1.4E2
7.2E1
0.0E0
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time
361.8385 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
100% A2.68E3
A1.37E3
A3.07E3
8.9E2
8.1E2
7.2E2
6.3E2
5.4E2
4.5E2
3.6E2
2.7E2
1.8E2
8.9E1
0.0E0
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time

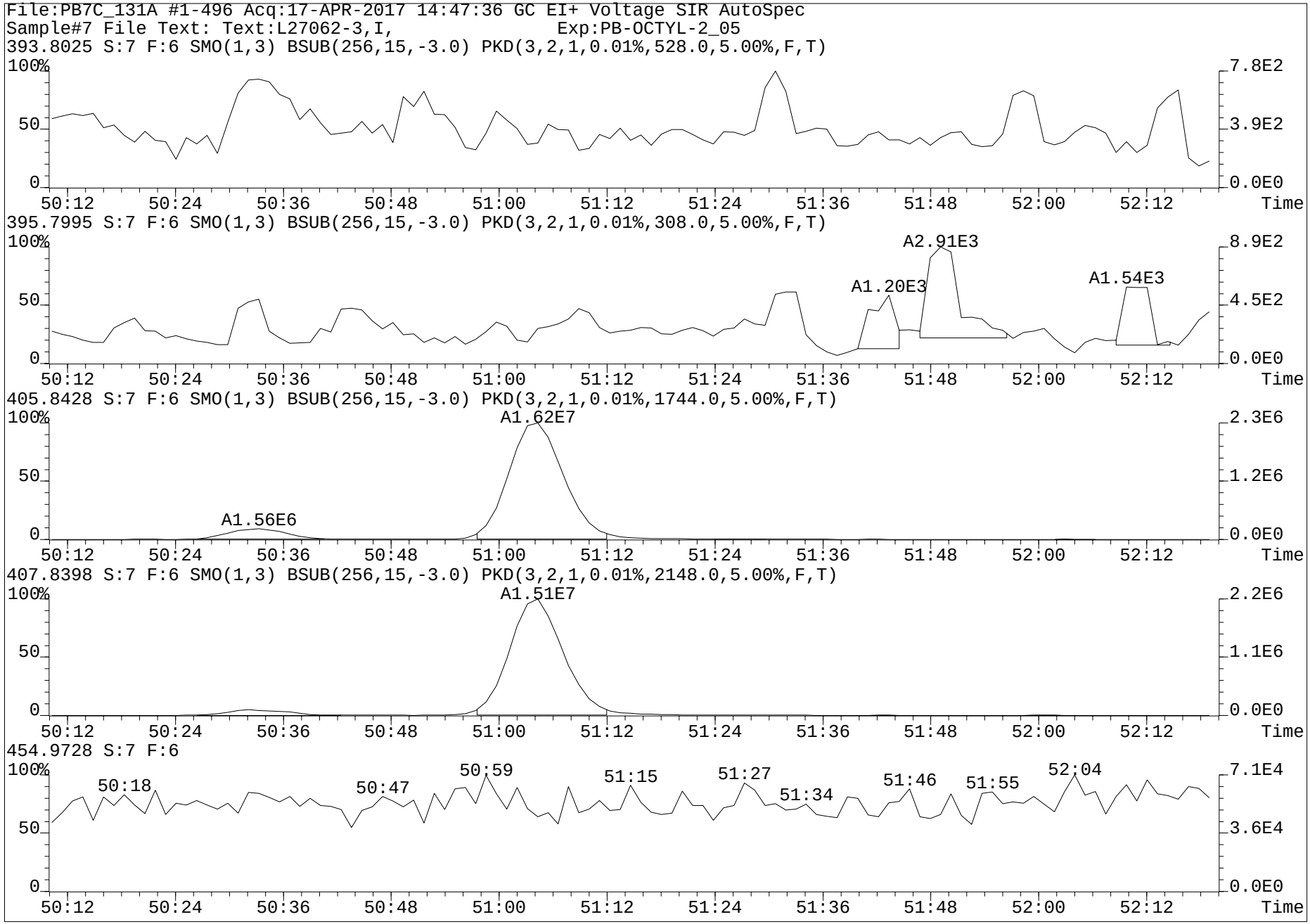

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
393.8025 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A8.33E4
A2.38E4
A1.16E4
A1.79E4
A2.36E4
A3.71E3
A4.27E3
A3.36E3
A3.48E3
A4.12E3
395.7995 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A7.68E4
A2.94E4
A2.61E4
A2.04E4
A5.25E3
A2.97E3
A1.75E3
A7.65E3
A5.70E3
A6.23E3
A1.38E3
A2.14E3
405.8425 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A2.57E7
A1.81E7
A1.56E7
A1.33E7
407.8398 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,348.0,5.00%,F,T)
A2.51E7
A1.76E7
A1.50E7
A1.28E7
354.9792 S:7 F:5
37:50
38:38
39:23
40:36
40:04
40:40
41:23
42:05
42:46
43:40
48:31
44:23
45:17
45:32
46:10
46:22
46:52
47:38
48:26
100%
50
0
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
1.4E4
7.2E3
0.0E0
1.0E4
5.0E3
4.0E6
2.0E6
3.9E6
8.6E4
4.3E4

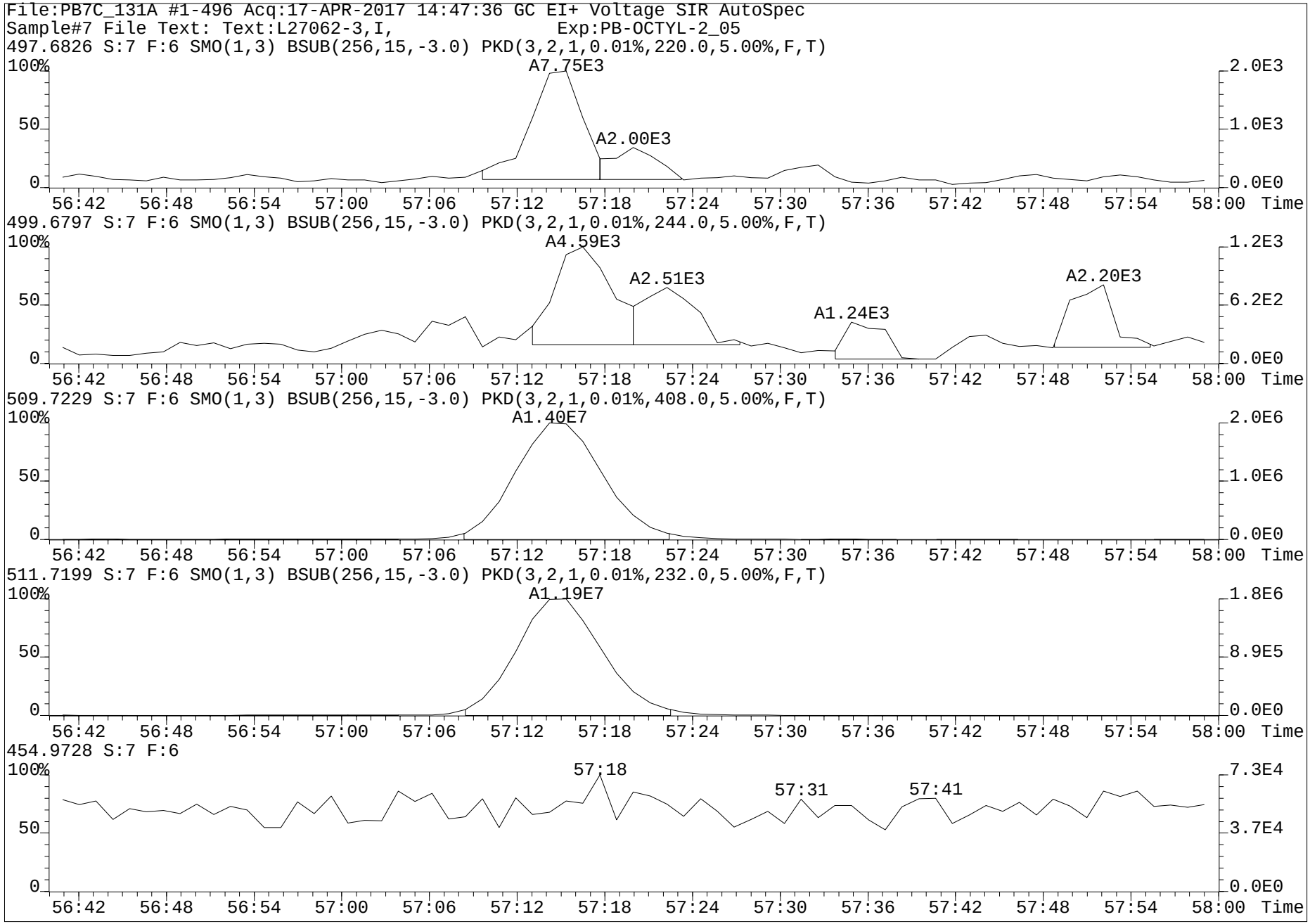

File:PB7C_131A #1-740 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
427.7635 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.10E4
A1.10E4
A5.22E3
A3.17E3
A2.20E3
A1.81E3
A347.41
A454.10
429.7606 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.65E4
A9.96E3
A5.49E3
A1.92E3
A1.93E3
A991.22
439.8038 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A1.75E7
441.8008 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A1.89E7
354.9792 S:7 F:5
43:31
43:40
44:23
45:17
45:32
45:56
46:17
46:22
47:06
47:38
48:01
48:26
48:50
49:08
49:34
Time


File:PB7C_131A #1-496 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
427.7635 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A9.17E3
A1.10E3
429.7606 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A1.11E4
A2.29E3
A2.20E3
A1.46E3
A989.88
439.8038 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1720.0,5.00%,F,T)
A2.03E7
A1.38E7
441.8008 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1644.0,5.00%,F,T)
A2.30E7
A1.56E7
454.9728 S:7 F:6
50:18
50:47
50:59
51:27
51:34
51:55
52:04
52:40
52:53
53:15
53:43
53:55
54:36
54:43
55:18
55:48
55:56
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.9E3
9.5E2
0.0E0
1.8E3
9.1E2
3.0E6
1.5E6
3.4E6
1.7E6
8.2E4
4.1E4


File:PB7C_131A #1-496 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
427.7635 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A9.17E3
A1.10E3
429.7606 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A1.11E4
A2.29E3
A2.20E3
A1.46E3
A989.88
461.7245 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A6.06E3
A1.95E3
A1.31E3
A1.18E3
A448.57
463.7216 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A5.45E3
A2.81E3
A1.39E3
Time


File:PB7C_131A #1-496 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
461.7245 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A1.31E3
A448.57
A1.18E3
A1.95E3
A6.06E3
463.7216 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0)
A2.81E3
A1.39E3
A5.45E3
473.7648 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,456.0,5.00%,F,T)
A1.14E7
A9.75E6
475.7619 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,444.0,5.00%,F,T)
A1.43E7
A1.27E7
454.9728 S:7 F:6
50:18
50:47
50:59
51:27
51:34
51:55
52:04
52:40
52:53
53:15
53:43
53:55
54:36
54:43
55:18
55:48
55:56
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.2E3
6.2E2
0.0E0
1.4E3
7.0E2
1.7E6
8.6E5
2.1E6
1.1E6
8.2E4
4.1E4


File:PB7C_131A #1-496 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
393.8025 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,528.0,5.00%,F,T)
100%
50
0
7.8E2
3.9E2
0.0E0
50:12 50:24 50:36 50:48 51:00 51:12 51:24 51:36 51:48 52:00 52:12 Time
395.7995 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,308.0,5.00%,F,T)
A2.91E3
A1.20E3
A1.54E3
8.9E2
4.5E2
0.0E0
405.8428 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1744.0,5.00%,F,T)
A1.62E7
A1.56E6
2.3E6
1.2E6
0.0E0
407.8398 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2148.0,5.00%,F,T)
A1.51E7
2.2E6
1.1E6
0.0E0
454.9728 S:7 F:6
50:18
50:47
50:59
51:15
51:27
51:34
51:46
51:55
52:04
7.1E4
3.6E4
0.0E0


File:PB7C_131A #1-496 Acq:17-APR-2017 14:47:36 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:L27062-3,I, Exp:PB-OCTYL-2_05
497.6826 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A7.75E3
A2.00E3
499.6797 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,244.0,5.00%,F,T)
A4.59E3
A2.51E3
A1.24E3
A2.20E3
509.7229 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A1.40E7
511.7199 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.19E7
454.9728 S:7 F:6
57:18
57:31
57:41
100%
50
0
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.0E3
1.0E3
0.0E0
1.2E3
6.2E2
2.0E6
1.0E6
1.8E6
8.9E5
7.3E4
3.7E4

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Run #10 Filename PB7C_129 S: 4 I: 1 Acquired: 12-APR-17 11:19:52 Processed: 13-APR-17 07:58:24
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-101,I,Blank Comments: 1,WG58451,1.0/20uL,:4323
sample size: 1.000000 conc units: pg/L total toxicity: 17.62 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 1.04e+05 | 3.37 | y | 11:31 | 2.995 | 3 | 0.1587 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 1.08e+05 | 4.06 | n | 13:44 | 3.036 | 3 | 0.1780 | - | y |
| 3 | Unk | CL2-PCB-4 | 1 | 5.99e+04 | 1.69 | y | 13:59 | 2.555 | 3 | 1.0543 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.57e+05 | 1.63 | y | 20:04 | 3.589 | 4 | 0.7506 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 1.66e+04 | 1.32 | n | 17:10 | 0.786 | 1 | 0.1766 | - | y |
| 6 | Unk | CL3-PCB-37 | 1 | 4.78e+04 | 1.11 | y | 27:22 | 1.040 | 1 | 0.2049 | - | n |
| 7 | Unk | CL4-PCB-54 | 0 | * | * | n | NotFnd | * | * | 0.1576 | - | n |
| 8 | Unk | CL4-PCB-81 | 0 | * | * | n | NotFnd | * | * | 0.3652 | - | n |
| 9 | Unk | CL4-PCB-77 | 0 | * | * | n | NotFnd | * | * | 0.4000 | - | n |
| 10 | Unk | CL5-PCB-104 | 0 | * | * | n | NotFnd | * | * | 0.1498 | - | n |
| 11 | Unk | CL5-PCB-123 | 0 | * | * | n | NotFnd | * | * | 0.2920 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.83e+04 | 1.71 | y | 37:26 | 1.314 | 1 | 0.2829 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.09e+03 | 0.66 | n | 37:57 | 0.105 | 0 | 0.2750 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 1.42e+04 | 1.50 | y | 38:40 | 0.465 | 0 | 0.2704 | - | n |
| 15 | Unk | CL5-PCB-126 | 0 | * | * | n | NotFnd | * | * | 0.3231 | - | n |
| 16 | Unk | CL6-PCB-155 | 0 | * | * | n | NotFnd | * | * | 0.1051 | - | n |
| 17 | Unk | CL6-PCB-167 | 0 | * | * | n | NotFnd | * | * | 0.1291 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 6.19e+03 | 0.36 | n | 45:01 | 0.262 | 0 | 0.1610 | - | n |
| 19 | Unk | CL6-PCB-169 | 0 | * | * | n | NotFnd | * | * | 0.1465 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 1.63e+03 | 1.74 | n | 37:57 | 0.071 | 0 | 0.1555 | - | n |
| 21 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.3521 | - | n |
| 22 | Unk | CL8-PCB-202 | 0 | * | * | n | NotFnd | * | * | 0.1890 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 5.17e+03 | 3.24 | n | 53:50 | 0.287 | 0 | 0.2145 | - | n |
| 24 | Unk | CL9-PCB-208 | 0 | * | * | n | NotFnd | * | * | 0.4197 | - | n |
| 25 | Unk | CL9-PCB-206 | 0 | * | * | n | NotFnd | * | * | 0.5028 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 1.77e+04 | 1.59 | n | 57:16 | 1.109 | 1 | 0.1934 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 6.36e+07 | 3.20 | y | 11:30 | 779.630 | 0 | 2.3527 | 39.0 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 6.50e+07 | 3.19 | y | 13:44 | 817.165 | 0 | 2.4125 | 40.9 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 4.58e+07 | 1.60 | y | 13:58 | 874.979 | 0 | 1.0361 | 43.7 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 9.41e+07 | 1.60 | y | 20:03 | 1096.983 | 0 | 0.6328 | 54.8 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 4.26e+07 | 1.05 | y | 17:09 | 910.118 | 0 | 2.4491 | 45.5 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 9.09e+07 | 1.05 | y | 27:21 | 1338.248 | 0 | 3.3879 | 66.9 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 6.42e+07 | 0.79 | y | 20:19 | 1154.579 | 0 | 0.2662 | 57.7 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 7.15e+07 | 0.78 | y | 34:23 | 1299.496 | 0 | 0.4239 | 65.0 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 7.04e+07 | 0.78 | y | 34:59 | 1241.025 | 0 | 0.4112 | 62.1 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 5.52e+07 | 1.60 | y | 26:02 | 1232.894 | 0 | 0.0795 | 61.6 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 5.74e+07 | 1.60 | y | 37:04 | 1429.746 | 0 | 2.2592 | 71.5 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 5.70e+07 | 1.58 | y | 37:25 | 1438.094 | 0 | 2.2894 | 71.9 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.53e+07 | 1.60 | y | 37:58 | 1439.242 | 0 | 2.3616 | 72.0 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 6.01e+07 | 1.59 | y | 38:38 | 1523.031 | 0 | 2.3011 | 76.2 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 5.07e+07 | 1.58 | y | 41:53 | 1403.022 | 0 | 2.5123 | 70.2 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 5.52e+07 | 1.26 | y | 31:58 | 1332.633 | 0 | 0.0858 | 66.6 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 4.36e+07 | 1.28 | y | 43:49 | 1448.572 | 0 | 0.1343 | 72.4 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 8.77e+07 | 1.25 | y | 45:02 | 2793.267 | 0 | 0.1287 | 69.8 | n |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 4.36e+07 | 1.24 | y | 48:26 | 1457.172 | 0 | 0.1350 | 72.9 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 4.83e+07 | 1.04 | y | 37:56 | 1135.785 | 0 | 0.0818 | 56.8 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 4.10e+07 | 1.06 | y | 51:05 | 1481.167 | 0 | 1.8353 | 74.1 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 4.00e+07 | 0.90 | y | 43:33 | 1015.407 | 0 | 0.0882 | 50.8 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 3.79e+07 | 0.92 | y | 53:46 | 1462.674 | 0 | 1.2674 | 73.1 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.09e+07 | 0.79 | y | 50:34 | 1245.022 | 0 | 0.1601 | 62.3 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.56e+07 | 0.78 | y | 55:35 | 1364.556 | 0 | 0.2117 | 68.2 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.13e+07 | 1.18 | y | 57:16 | 1323.762 | 0 | 0.1366 | 66.2 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.57e+08 | 1.59 | y | 16:00 | 98.579 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 7.93e+07 | 0.79 | y | 25:03 | 90.457 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 6.10e+07 | 1.61 | y | 32:12 | 78.786 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 4.76e+07 | 1.24 | y | 40:40 | 69.280 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 3.40e+07 | 0.90 | y | 53:16 | 78.792 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 1.01e+08 | 1.06 | y | 23:10 | 1506.425 | 0 | 3.4346 | 75.3 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.53e+07 | 1.59 | y | 35:01 | 1384.395 | 0 | 0.1387 | 69.2 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.59e+07 | 1.04 | y | 41:08 | 1527.700 | 0 | 0.1436 | 76.4 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 6.42e+07 | 0.79 | y | 20:19 | 1154.579 | 0 | 0.2662 | 57.7 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 4.83e+07 | 1.04 | y | 37:56 | 1135.785 | 0 | 0.0818 | 56.8 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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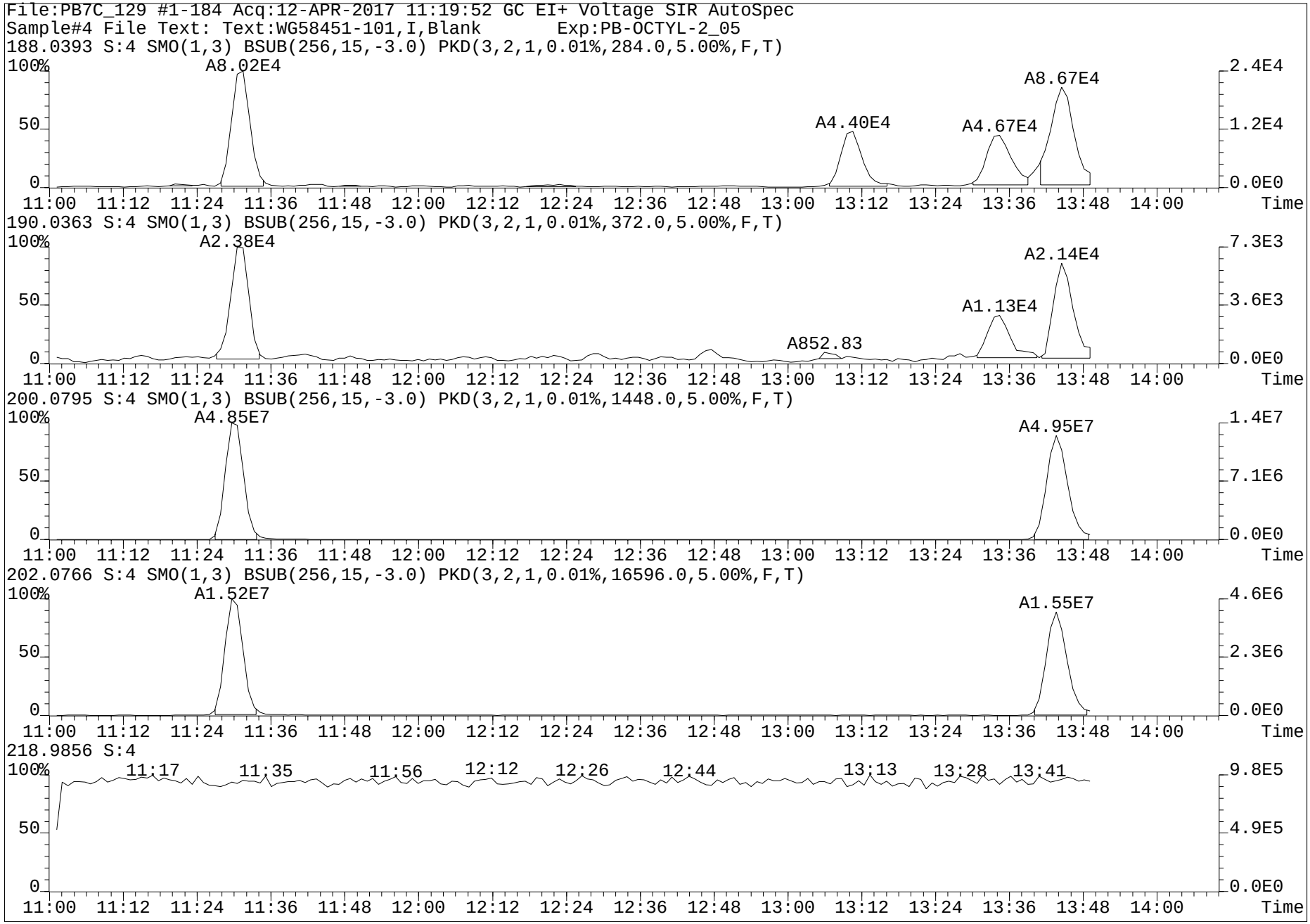
Run #3 Filename PB7C_129 S: 4 I: 1 Acquired: 12-APR-17 11:19:52 Processed: 13-APR-17 08:22:39
Run: pb7c_129-tc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-101,I,Blank Comments: 1,WG58451,1.0/20uL,:4323
sample size: 1.000000 conc units: pg/L total toxicity: 150.33 F1: 1.0000 F2: 1.0000

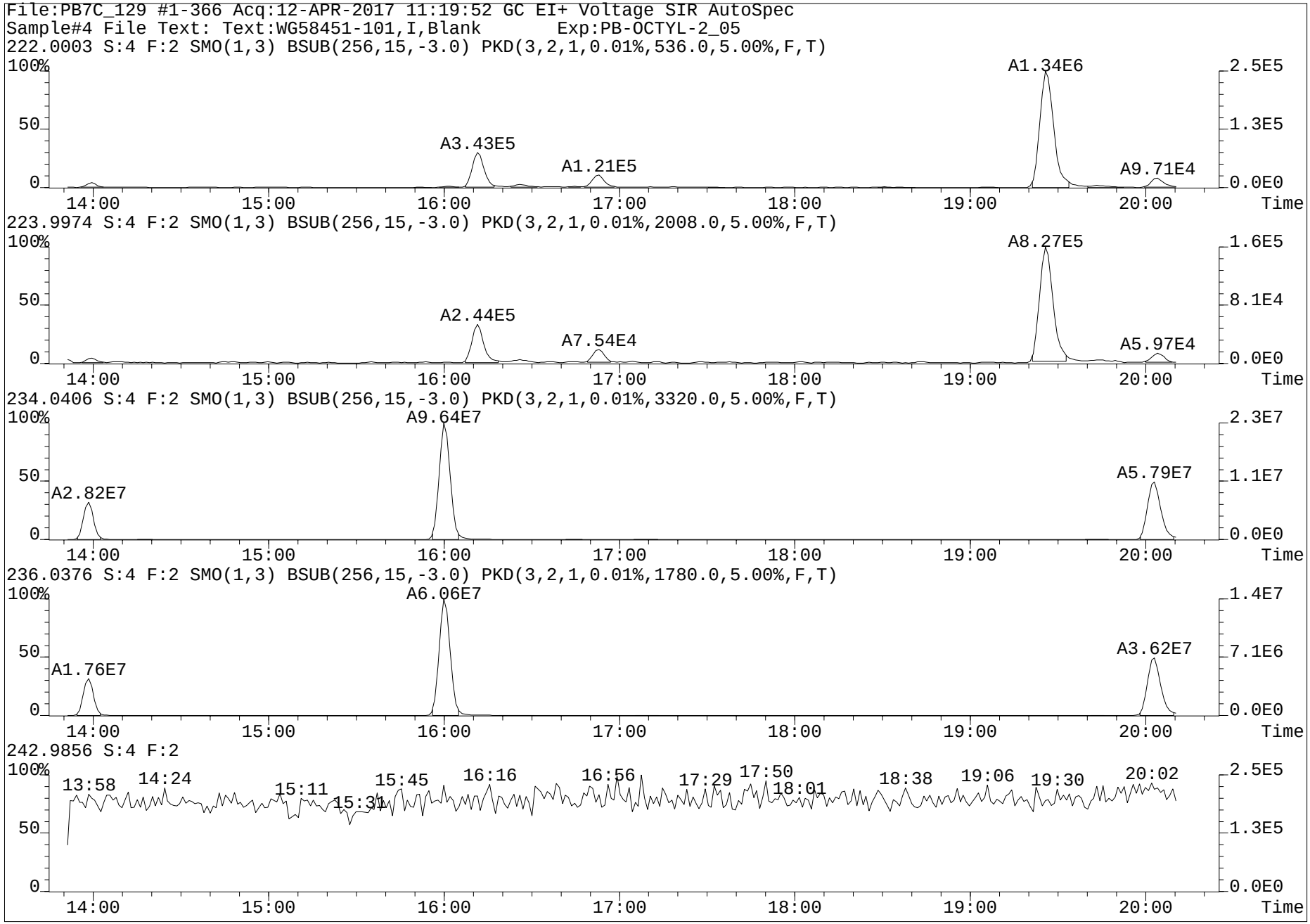
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 5.81e+04 | 4.12 | n | 13:34 | 1.607 | 2 | 0.1640 | - | n |
| 2 | Unk | CL2-PCB-10 | 0 | * | * | n | NotFnd | * | * | 0.6748 | - | n |
| 3 | Unk | CL2-PCB-9 | 0 | * | * | n | NotFnd | * | * | 0.6442 | - | n |
| 4 | Unk | CL2-PCB-7 | 1 | 5.87e+05 | 1.41 | y | 16:11 | 13.406 | 13 | 0.6570 | - | n |
| 5 | Unk | CL2-PCB-6 | 0 | * | * | n | NotFnd | * | * | 0.6413 | - | n |
| 6 | Unk | CL2-PCB-5 | 0 | * | * | n | NotFnd | * | * | 0.7022 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 1.96e+05 | 1.60 | y | 16:53 | 4.142 | 4 | 0.6069 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 0.6481 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 2.17e+06 | 1.63 | y | 19:26 | 49.052 | 49 | 0.6496 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 0 | * | * | n | NotFnd | * | * | 0.6623 | - | n |
| 11 | Unk | CL3-PCB-30/18 | 1 | 1.49e+05 | 0.92 | y | 19:05 | 4.166 | 4 | 0.1188 | - | y |
| 12 | Unk | CL3-PCB-17 | 1 | 6.05e+04 | 0.93 | y | 19:31 | 2.006 | 2 | 0.1406 | - | y |
| 13 | Unk | CL3-PCB-27 | 1 | 1.16e+04 | 1.04 | y | 19:44 | 0.271 | 0 | 0.0992 | - | y |
| 14 | Unk | CL3-PCB-24 | 0 | * | * | n | NotFnd | * | * | 0.1075 | - | n |
| 15 | Unk | CL3-PCB-16 | 1 | 5.52e+04 | 0.70 | n | 19:58 | 2.086 | 2 | 0.1604 | - | y |
| 16 | Unk | CL3-PCB-32 | 1 | 5.47e+04 | 0.97 | y | 20:31 | 1.147 | 1 | 0.1759 | - | n |
| 17 | Unk | CL3-PCB-34 | 0 | * | * | n | NotFnd | * | * | 0.1855 | - | n |
| 18 | Unk | CL3-PCB-23 | 0 | * | * | n | NotFnd | * | * | 0.1967 | - | n |
| 19 | Unk | CL3-PCB-26/29 | 1 | 4.09e+04 | 0.89 | y | 22:19 | 0.879 | 1 | 0.1805 | - | y |
| 20 | Unk | CL3-PCB-25 | 1 | 2.97e+04 | 1.06 | y | 22:34 | 0.564 | 1 | 0.1593 | - | y |
| 21 | Unk | CL3-PCB-31 | 1 | 2.16e+05 | 1.17 | y | 22:54 | 4.444 | 4 | 0.1724 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 2.65e+05 | 1.07 | y | 23:12 | 5.553 | 6 | 0.1755 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 1.51e+05 | 1.02 | y | 23:26 | 3.157 | 3 | 0.1751 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 8.85e+04 | 0.85 | n | 23:50 | 2.028 | 2 | 0.1922 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 0.1735 | - | n |
| 26 | Unk | CL3-PCB-39 | 1 | 3.80e+03 | 0.75 | n | 25:55 | 0.074 | 0 | 0.1627 | - | y |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 0.1732 | - | n |
| 28 | Unk | CL3-PCB-35 | 1 | 1.93e+04 | 1.46 | n | 26:57 | 0.420 | 0 | 0.1822 | - | y |
| 29 | Unk | CL4-PCB-50/53 | 1 | 2.22e+04 | 0.63 | n | 22:34 | 0.730 | 1 | 0.2091 | - | n |
| 30 | Unk | CL4-PCB-45/51 | 1 | 1.17e+05 | 0.75 | y | 23:21 | 3.941 | 4 | 0.2144 | - | n |
| 31 | Unk | CL4-PCB-46 | 0 | * | * | n | NotFnd | * | * | 0.2457 | - | n |
| 32 | Unk | CL4-PCB-52 | 1 | 1.49e+05 | 0.65 | n4 | 25:05 | 4.783 | 5 | 0.2036 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.1603 | - | n |
| 34 | Unk | CL4-PCB-43 | 1 | 4.70e+03 | 1.02 | n | 25:19 | 0.212 | 0 | 0.2868 | - | n |
| 35 | Unk | CL4-PCB-69/49 | 1 | 6.39e+04 | 0.98 | n | 25:36 | 1.885 | 2 | 0.1876 | - | n |
| 36 | Unk | CL4-PCB-48 | 1 | 2.65e+04 | 0.76 | y | 25:53 | 0.841 | 1 | 0.2015 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 4.73e+05 | 0.89 | n4 | 26:09 | 14.248 | 14 | 0.1915 | - | n |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 9.70e+03 | 0.56 | n | 26:23 | 0.243 | 0 | 0.1595 | - | n |
| 39 | Unk | CL4-PCB-42 | 1 | 2.00e+04 | 0.94 | n | 26:39 | 0.738 | 1 | 0.2345 | - | n |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 4.64e+04 | 0.80 | y | 27:08 | 1.624 | 2 | 0.2223 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 5.88e+04 | 0.60 | n | 27:24 | 1.514 | 2 | 0.1637 | - | n |
| 42 | Unk | CL4-PCB-72 | 0 | * | * | n | NotFnd | * | * | 0.3026 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 8.11e+04 | 0.75 | y | 28:36 | 1.902 | 2 | 0.2963 | - | n |
| 44 | Unk | CL4-PCB-57 | 0 | * | * | n | NotFnd | * | * | 0.2997 | - | n |

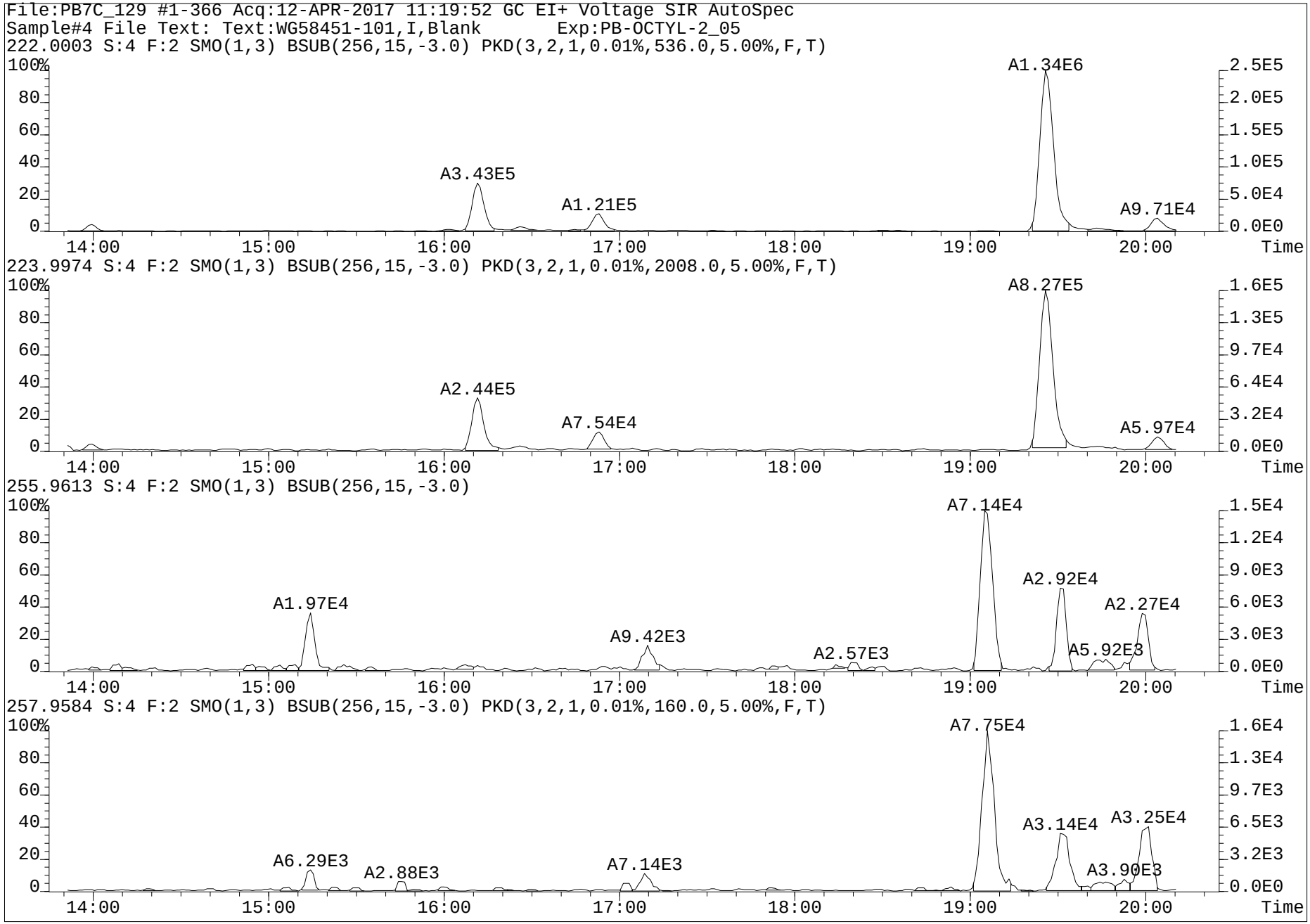
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 0 | * | * | n | NotFnd | * | * | 0.3291 | - | n |
| 46 | Unk | CL4-PCB-67 | 0 | * | * | n | NotFnd | * | * | 0.2687 | - | n |
| 47 | Unk | CL4-PCB-63 | 0 | * | * | n | NotFnd | * | * | 0.3111 | - | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 1.14e+05 | 0.67 | y | 30:05 | 2.917 | 3 | 0.3228 | - | y |
| 49 | Unk | CL4-PCB-66 | 1 | 5.10e+04 | 0.85 | y | 30:25 | 1.276 | 1 | 0.3168 | - | y |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 0.3477 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 2.77e+04 | 1.14 | n | 31:08 | 0.764 | 1 | 0.3495 | - | n |
| 52 | Unk | CL4-PCB-60 | 0 | * | * | n | NotFnd | * | * | 0.3479 | - | n |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 0.3112 | - | n |
| 54 | Unk | CL4-PCB-79 | 0 | * | * | n | NotFnd | * | * | 0.2897 | - | n |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 0.3481 | - | n |
| 56 | Unk | CL5-PCB-96 | 0 | * | * | n | NotFnd | * | * | 0.1508 | - | n |
| 57 | Unk | CL5-PCB-103 | 0 | * | * | n | NotFnd | * | * | 0.2116 | - | n |
| 58 | Unk | CL5-PCB-94 | 0 | * | * | n | NotFnd | * | * | 0.2634 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 4.68e+04 | 1.59 | y | 29:09 | 1.975 | 2 | 0.2377 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 1 | 6.12e+03 | 3.10 | n | 29:58 | 0.271 | 0 | 0.2499 | - | n |
| 61 | Unk | CL5-PCB-84 | 1 | 8.60e+03 | 2.01 | n | 30:17 | 0.429 | 0 | 0.2812 | - | n |
| 62 | Unk | CL5-PCB-89 | 0 | * | * | n | NotFnd | * | * | 0.2623 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 0.1913 | - | n |
| 64 | Unk | CL5-PCB-92 | 0 | * | * | n | NotFnd | * | * | 0.2498 | - | n |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 6.80e+04 | 1.51 | y | 32:13 | 2.657 | 3 | 0.2203 | - | n |
| 66 | Unk | CL5-PCB-83/99 | 0 | * | * | n | NotFnd | * | * | 0.2644 | - | y |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 0.1763 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 6.70e+04 | 1.69 | y | 33:23 | 2.635 | 3 | 0.2217 | - | y |
| 69 | Unk | CL5-PCB-117/116/85 | 1 | 4.05e+03 | 1.11 | n | 34:08 | 0.154 | 0 | 0.2144 | - | n |
| 70 | Unk | CL5-PCB-110/115 | 1 | 6.94e+04 | 1.16 | n | 34:17 | 2.329 | 2 | 0.1890 | - | n |
| 71 | Unk | CL5-PCB-82 | 0 | * | * | n | NotFnd | * | * | 0.2834 | - | n |
| 72 | Unk | CL5-PCB-111 | 0 | * | * | n | NotFnd | * | * | 0.1854 | - | n |
| 73 | Unk | CL5-PCB-120 | 1 | 2.57e+03 | 0.63 | n | 35:34 | 0.078 | 0 | 0.1707 | - | n |
| 74 | Unk | CL5-PCB-108/124 | 0 | * | * | n | NotFnd | * | * | 0.2650 | - | n |
| 75 | Unk | CL5-PCB-107 | 0 | * | * | n | NotFnd | * | * | 0.2465 | - | n |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 0.2342 | - | n |
| 77 | Unk | CL5-PCB-122 | 0 | * | * | n | NotFnd | * | * | 0.2837 | - | n |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 0.2810 | - | n |
| 79 | Unk | CL6-PCB-152 | 0 | * | * | n | NotFnd | * | * | 0.1121 | - | n |
| 80 | Unk | CL6-PCB-150 | 0 | * | * | n | NotFnd | * | * | 0.1163 | - | n |
| 81 | Unk | CL6-PCB-136 | 0 | * | * | n | NotFnd | * | * | 0.1142 | - | n |
| 82 | Unk | CL6-PCB-145 | 0 | * | * | n | NotFnd | * | * | 0.1215 | - | n |
| 83 | Unk | CL6-PCB-148 | 0 | * | * | n | NotFnd | * | * | 0.1556 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 1.93e+04 | 1.01 | n | 35:16 | 0.814 | 1 | 0.1427 | - | y |
| 85 | Unk | CL6-PCB-144 | 0 | * | * | n | NotFnd | * | * | 0.1506 | - | y |
| 86 | Unk | CL6-PCB-147/149 | 1 | 2.07e+04 | 1.78 | n | 36:14 | 0.932 | 1 | 0.1460 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 0 | * | * | n | NotFnd | * | * | 0.1691 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 1 | 9.64e+02 | 2.01 | n | 36:49 | 0.045 | 0 | 0.1506 | - | n |
| 89 | Unk | CL6-PCB-131 | 0 | * | * | n | NotFnd | * | * | 0.1735 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 0.1676 | - | n |
| 91 | Unk | CL6-PCB-132 | 1 | 4.89e+03 | 1.90 | n | 37:33 | 0.272 | 0 | 0.1808 | - | n |
| 92 | Unk | CL6-PCB-133 | 0 | * | * | n | NotFnd | * | * | 0.1690 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 0.1359 | - | n |
| 94 | Unk | CL6-PCB-146 | 0 | * | * | n | NotFnd | * | * | 0.1289 | - | n |
| 95 | Unk | CL6-PCB-161 | 0 | * | * | n | NotFnd | * | * | 0.1117 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 2.78e+04 | 0.87 | n | 39:24 | 1.142 | 1 | 0.1333 | - | n |
| 97 | Unk | CL6-PCB-141 | 1 | 6.57e+03 | 0.75 | n | 39:35 | 0.323 | 0 | 0.1598 | - | n |

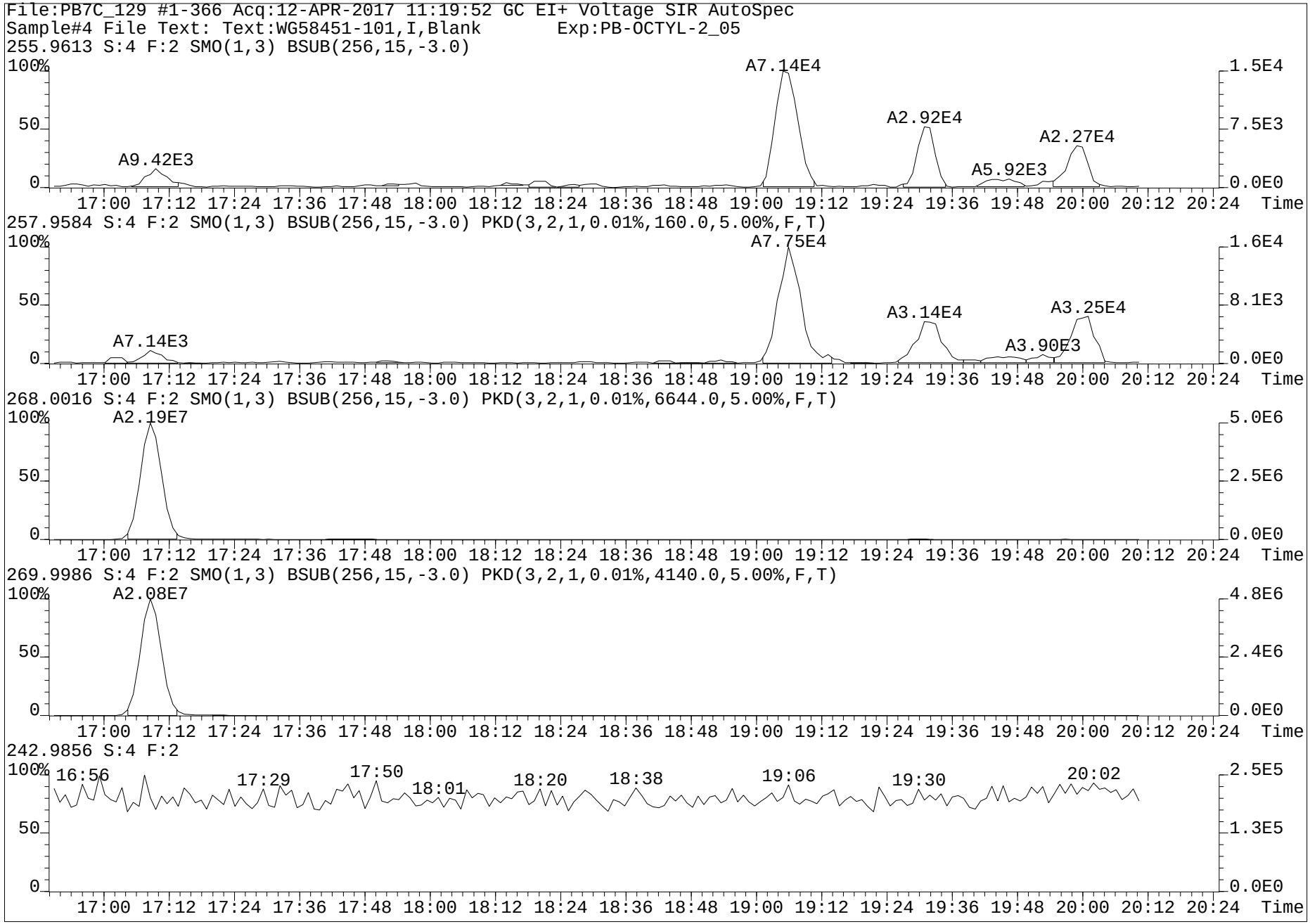
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 1 | 2.74e+03 | 9.75 | n | 40:03 | 0.156 | 0 | 0.1846 | - | n |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 0.1778 | - | n |
| 100 | Unk | CL6-PCB-164 | 0 | * | * | n | NotFnd | * | * | 0.1205 | - | n |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 2.24e+04 | 2.34 | n | 40:42 | 1.024 | 1 | 0.1481 | - | n |
| 102 | Unk | CL6-PCB-158 | 1 | 5.84e+03 | 4.05 | n | 41:08 | 0.206 | 0 | 0.1145 | - | n |
| 103 | Unk | CL6-PCB-128/166 | 1 | 2.38e+03 | 1.15 | y | 41:55 | 0.111 | 0 | 0.1519 | - | n |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 0.1228 | - | n |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 0.1218 | - | n |
| 106 | Unk | CL7-PCB-179 | 0 | * | * | n | NotFnd | * | * | 0.1654 | - | n |
| 107 | Unk | CL7-PCB-184 | 0 | * | * | n | NotFnd | * | * | 0.1564 | - | n |
| 108 | Unk | CL7-PCB-176 | 0 | * | * | n | NotFnd | * | * | 0.1706 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.1818 | - | n |
| 110 | Unk | CL7-PCB-178 | 0 | * | * | n | NotFnd | * | * | 0.2405 | - | n |
| 111 | Unk | CL7-PCB-175 | 0 | * | * | n | NotFnd | * | * | 0.2356 | - | n |
| 112 | Unk | CL7-PCB-187 | 1 | 6.59e+03 | 0.43 | n | 42:09 | 0.398 | 0 | 0.2242 | - | n |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.1962 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 0 | * | * | n | NotFnd | * | * | 0.2269 | - | n |
| 115 | Unk | CL7-PCB-174 | 0 | * | * | n | NotFnd | * | * | 0.2314 | - | n |
| 116 | Unk | CL7-PCB-177 | 0 | * | * | n | NotFnd | * | * | 0.2126 | - | n |
| 117 | Unk | CL7-PCB-181 | 0 | * | * | n | NotFnd | * | * | 0.2396 | - | n |
| 118 | Unk | CL7-PCB-171/173 | 0 | * | * | n | NotFnd | * | * | 0.2541 | - | n |
| 119 | Unk | CL7-PCB-172 | 0 | * | * | n | NotFnd | * | * | 0.2394 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.2044 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 1 | 1.53e+04 | 1.08 | y | 46:29 | 0.874 | 1 | 0.2136 | - | n |
| 122 | Unk | CL7-PCB-191 | 0 | * | * | n | NotFnd | * | * | 0.1885 | - | n |
| 123 | Unk | CL7-PCB-170 | 0 | * | * | n | NotFnd | * | * | 0.2291 | - | n |
| 124 | Unk | CL7-PCB-190 | 0 | * | * | n | NotFnd | * | * | 0.1921 | - | n |
| 125 | Unk | CL8-PCB-201 | 0 | * | * | n | NotFnd | * | * | 0.1625 | - | n |
| 126 | Unk | CL8-PCB-204 | 0 | * | * | n | NotFnd | * | * | 0.1680 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 0 | * | * | n | NotFnd | * | * | 0.1380 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 1 | 2.57e+03 | 0.54 | n | 48:34 | 0.184 | 0 | 0.2379 | - | n |
| 129 | Unk | CL8-PCB-196 | 0 | * | * | n | NotFnd | * | * | 0.2106 | - | n |
| 130 | Unk | CL8-PCB-203 | 1 | 6.33e+03 | 0.77 | y | 49:26 | 0.400 | 0 | 0.2099 | - | n |
| 131 | Unk | CL8-PCB-195 | 0 | * | * | n | NotFnd | * | * | 0.2313 | - | n |
| 132 | Unk | CL8-PCB-194 | 1 | 4.53e+03 | 1.12 | n | 53:16 | 0.298 | 0 | 0.2474 | - | y |
| 133 | Unk | CL9-PCB-207 | 0 | * | * | n | NotFnd | * | * | 0.3717 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 6.36e+07 | 3.20 | y | 11:30 | 841.749 | 0 | 2.5402 | 42.1 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 6.50e+07 | 3.19 | y | 13:44 | 893.166 | 0 | 2.6369 | 44.7 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 4.58e+07 | 1.60 | y | 13:58 | 952.376 | 0 | 1.1277 | 47.6 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 9.41e+07 | 1.60 | y | 20:03 | 1186.122 | 0 | 0.6842 | 59.3 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 4.26e+07 | 1.05 | y | 17:09 | 1060.225 | 0 | 2.8531 | 53.0 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 9.09e+07 | 1.05 | y | 27:21 | 1370.864 | 0 | 3.4705 | 68.5 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 6.42e+07 | 0.79 | y | 20:19 | 1199.282 | 0 | 0.2765 | 60.0 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 7.15e+07 | 0.78 | y | 34:23 | 1413.647 | 0 | 0.4612 | 70.7 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 7.04e+07 | 0.78 | y | 34:59 | 1391.353 | 0 | 0.4610 | 69.6 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 5.52e+07 | 1.60 | y | 26:02 | 1297.251 | 0 | 0.0837 | 64.9 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 5.74e+07 | 1.60 | y | 37:04 | 1456.444 | 0 | 2.3014 | 72.8 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 5.70e+07 | 1.58 | y | 37:25 | 1477.792 | 0 | 2.3526 | 73.9 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 5.53e+07 | 1.60 | y | 37:58 | 1464.845 | 0 | 2.4036 | 73.2 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 6.01e+07 | 1.59 | y | 38:38 | 1576.527 | 0 | 2.3819 | 78.8 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 5.07e+07 | 1.58 | y | 41:53 | 1528.335 | 0 | 2.7366 | 76.4 | n |

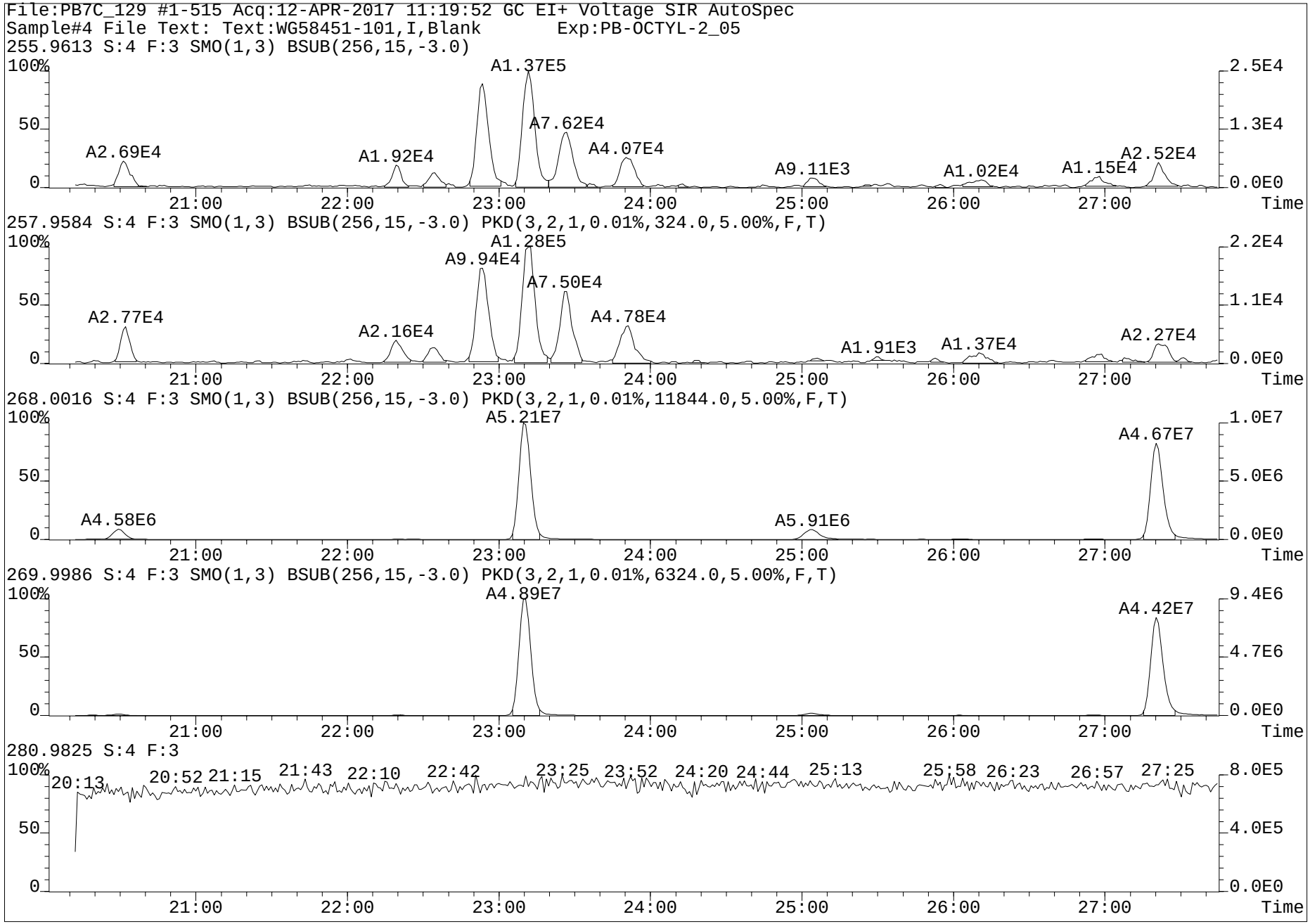
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 5.52e+07 | 1.26 | y | 31:58 | 1503.732 | 0 | 0.0968 | 75.2 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 4.36e+07 | 1.28 | y | 43:49 | 1566.041 | 0 | 0.1452 | 78.3 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 8.77e+07 | 1.25 | y | 45:02 | 3174.813 | 0 | 0.1463 | 79.4 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 4.36e+07 | 1.24 | y | 48:26 | 1595.626 | 0 | 0.1478 | 79.8 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 4.83e+07 | 1.04 | y | 37:56 | 1510.985 | 0 | 0.1088 | 75.5 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 3.59e+07 | 1.07 | y | 46:29 | 1655.109 | 0 | 0.1601 | 82.8 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 2.94e+07 | 1.04 | y | 47:47 | 1658.911 | 0 | 0.1965 | 82.9 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 4.00e+07 | 0.90 | y | 43:33 | 1462.445 | 0 | 0.1271 | 73.1 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 3.79e+07 | 0.92 | y | 53:46 | 1572.878 | 0 | 1.3629 | 78.6 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 3.09e+07 | 0.79 | y | 50:34 | 1326.621 | 0 | 0.1706 | 66.3 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 2.56e+07 | 0.78 | y | 55:35 | 1515.082 | 0 | 0.2350 | 75.8 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.57e+08 | 1.59 | y | 16:00 | 141.202 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 7.93e+07 | 0.79 | y | 25:03 | 136.343 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 6.10e+07 | 1.61 | y | 32:12 | 129.791 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 4.76e+07 | 1.24 | y | 40:40 | 121.125 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 3.40e+07 | 0.90 | y | 53:16 | 117.366 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 1.01e+08 | 1.06 | y | 23:10 | 1445.616 | 0 | 3.2960 | 72.3 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 5.53e+07 | 1.59 | y | 35:01 | 1453.435 | 0 | 0.1456 | 72.7 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 3.59e+07 | 1.04 | y | 41:08 | 1699.801 | 0 | 0.1598 | 85.0 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 6.42e+07 | 0.79 | y | 20:19 | 1199.282 | 0 | 0.2765 | 60.0 | n |
| 169 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.3435 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 4.10e+07 | 1.06 | y | 51:05 | 1399.463 | 0 | 1.7341 | 70.0 | n |
| 171 | Unk | CL10-PCB-209 | 1 | 1.77e+04 | 1.59 | n | 57:16 | 1.083 | 0 | 0.1888 | - | n |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 3.13e+07 | 1.18 | y | 57:16 | 1517.822 | 0 | 0.1566 | 75.9 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

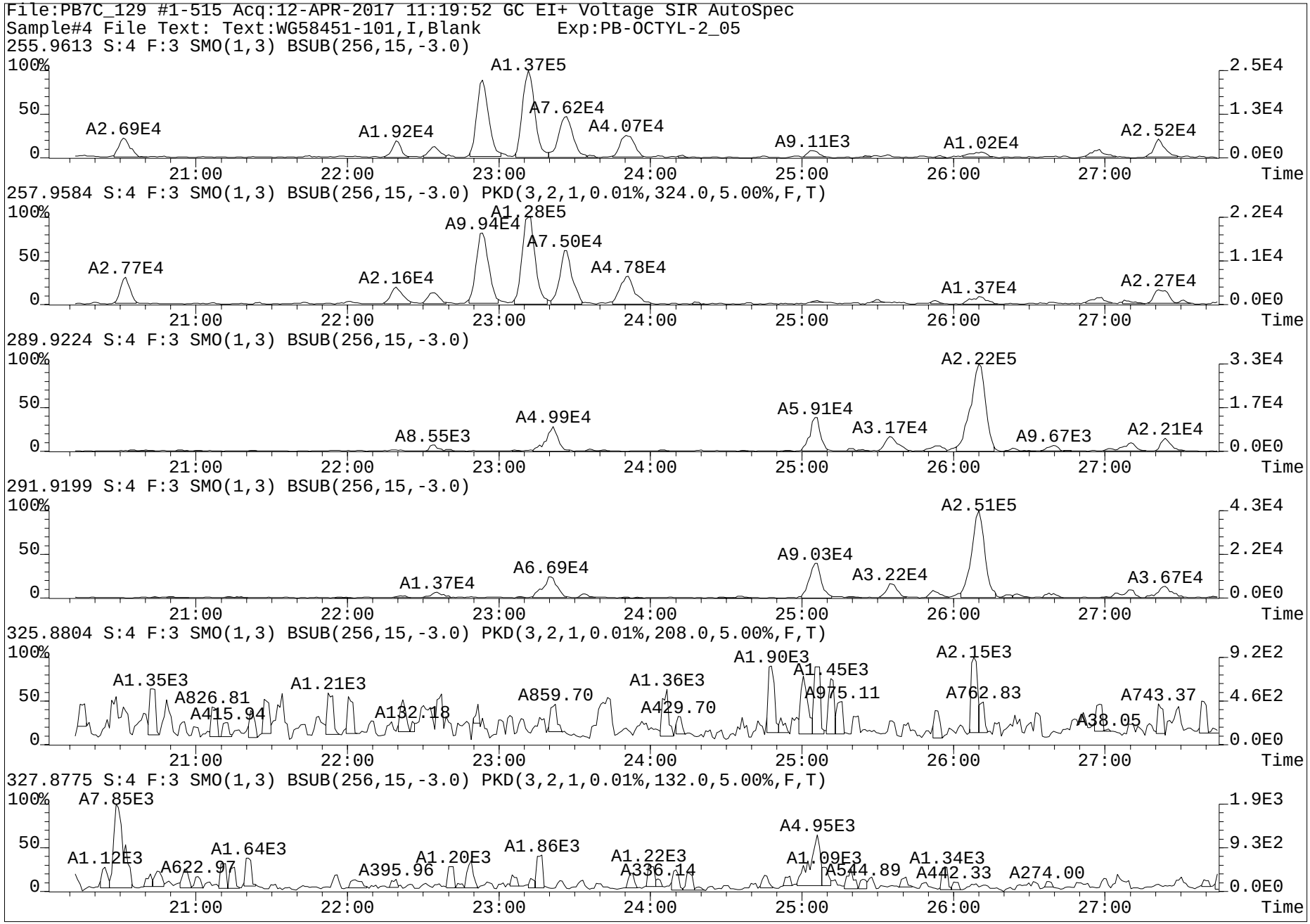

File:PB7C_129 #1-184 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
188.0393 S:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A8.02E4
A4.40E4
A4.67E4
A8.67E4
190.0363 S:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,372.0,5.00%,F,T)
A2.38E4
A852.83
A1.13E4
A2.14E4
200.0795 S:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1448.0,5.00%,F,T)
A4.85E7
A4.95E7
202.0766 S:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16596.0,5.00%,F,T)
A1.52E7
A1.55E7
218.9856 S:4
11:17
11:35
11:56
12:12
12:26
12:44
13:13
13:28
13:41
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
2.4E4
1.2E4
0.0E0
7.3E3
3.6E3
1.4E7
7.1E6
4.6E6
2.3E6
9.8E5
4.9E5

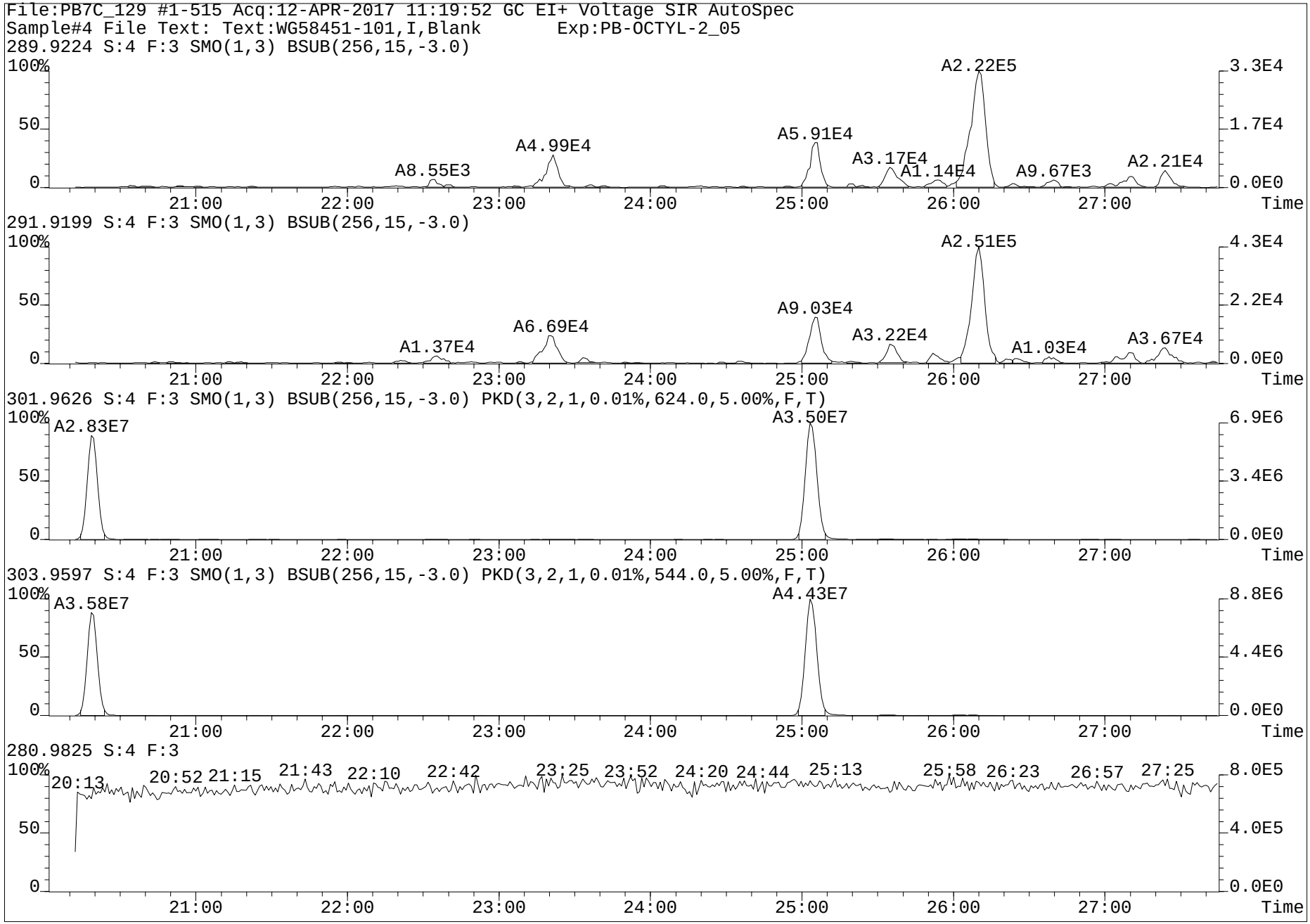

File:PB7C_129 #1-366 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,536.0,5.00%,F,T)
A1.34E6
A3.43E5
A1.21E5
A9.71E4
223.9974 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2008.0,5.00%,F,T)
A8.27E5
A2.44E5
A7.54E4
A5.97E4
234.0406 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3320.0,5.00%,F,T)
A9.64E7
A2.82E7
A5.79E7
236.0376 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1780.0,5.00%,F,T)
A6.06E7
A1.76E7
A3.62E7
242.9856 S:4 F:2
13:58
14:24
15:11
15:31
15:45
16:16
16:56
17:29
17:50
18:01
18:38
19:06
19:30
20:02
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
2.5E5
1.3E5
0.0E0
1.6E5
8.1E4
2.3E7
1.1E7
1.4E7
7.1E6

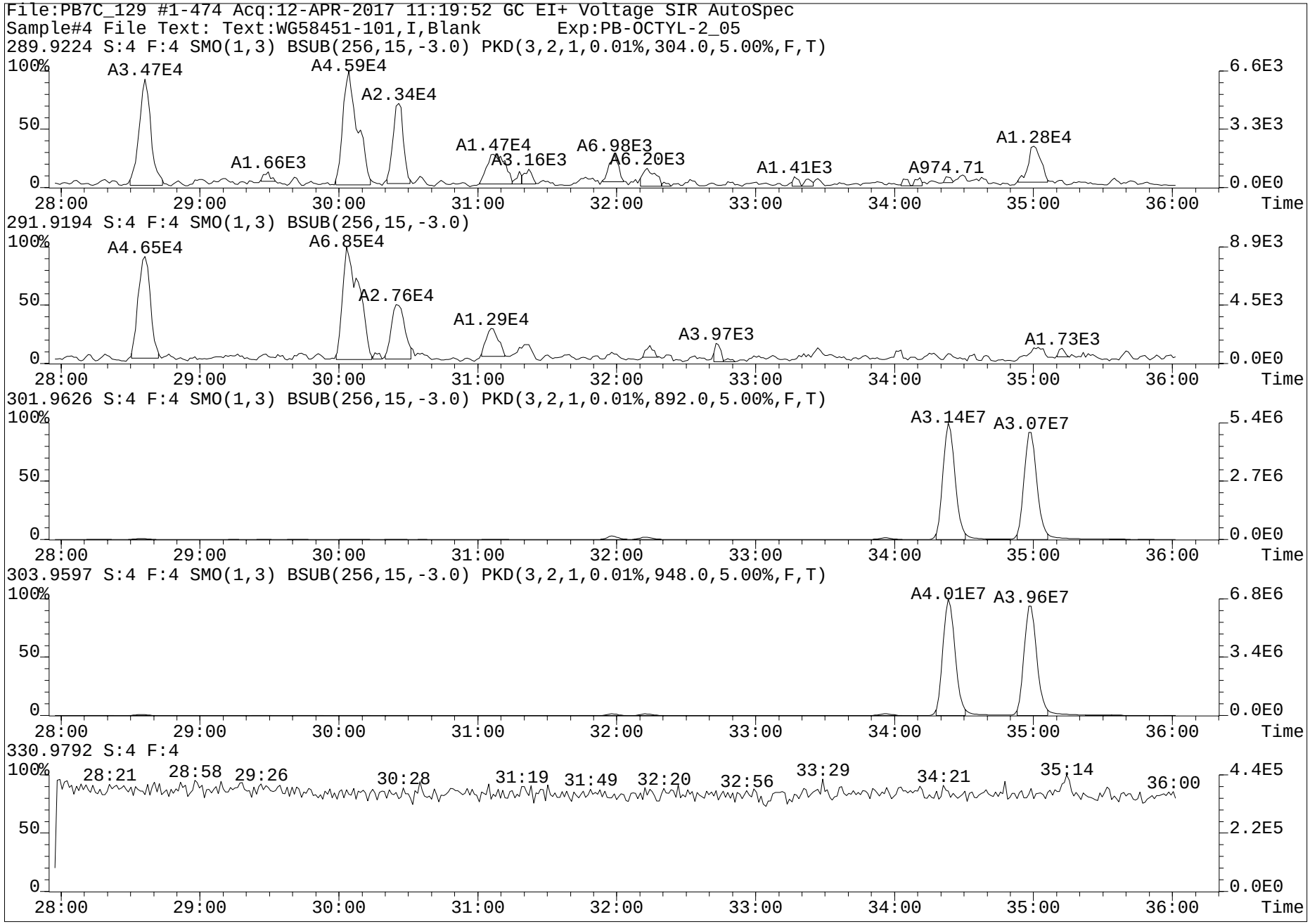

File:PB7C_129 #1-366 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,536.0,5.00%,F,T)
A1.34E6
A3.43E5
A1.21E5
A9.71E4
223.9974 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2008.0,5.00%,F,T)
A8.27E5
A2.44E5
A7.54E4
A5.97E4
255.9613 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0)
A7.14E4
A2.92E4
A2.27E4
A1.97E4
A9.42E3
A2.57E3
A5.92E3
257.9584 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A7.75E4
A3.14E4
A3.25E4
A6.29E3
A2.88E3
A7.14E3
A3.90E3
Time

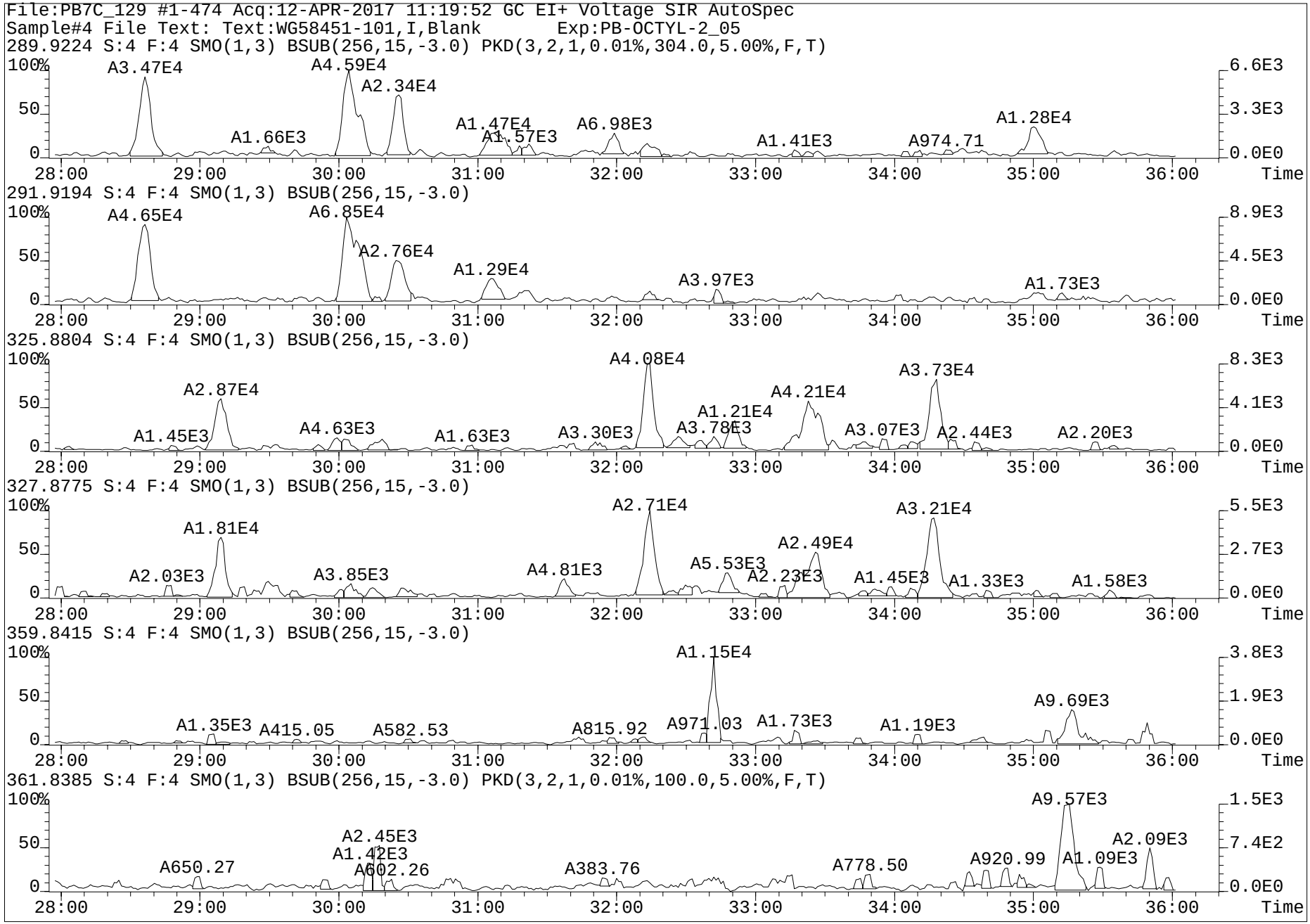

File:PB7C_129 #1-366 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0)
A7.14E4
A2.92E4
A2.27E4
A9.42E3
A5.92E3
257.9584 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A7.75E4
A3.14E4
A3.25E4
A7.14E3
A3.90E3
268.0016 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6644.0,5.00%,F,T)
A2.19E7
269.9986 S:4 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4140.0,5.00%,F,T)
A2.08E7
242.9856 S:4 F:2
16:56
17:29
17:50
18:01
18:20
18:38
19:06
19:30
20:02
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
1.5E4
7.5E3
0.0E0
1.6E4
8.1E3
5.0E6
2.5E6
4.8E6
2.4E6
2.5E5
1.3E5

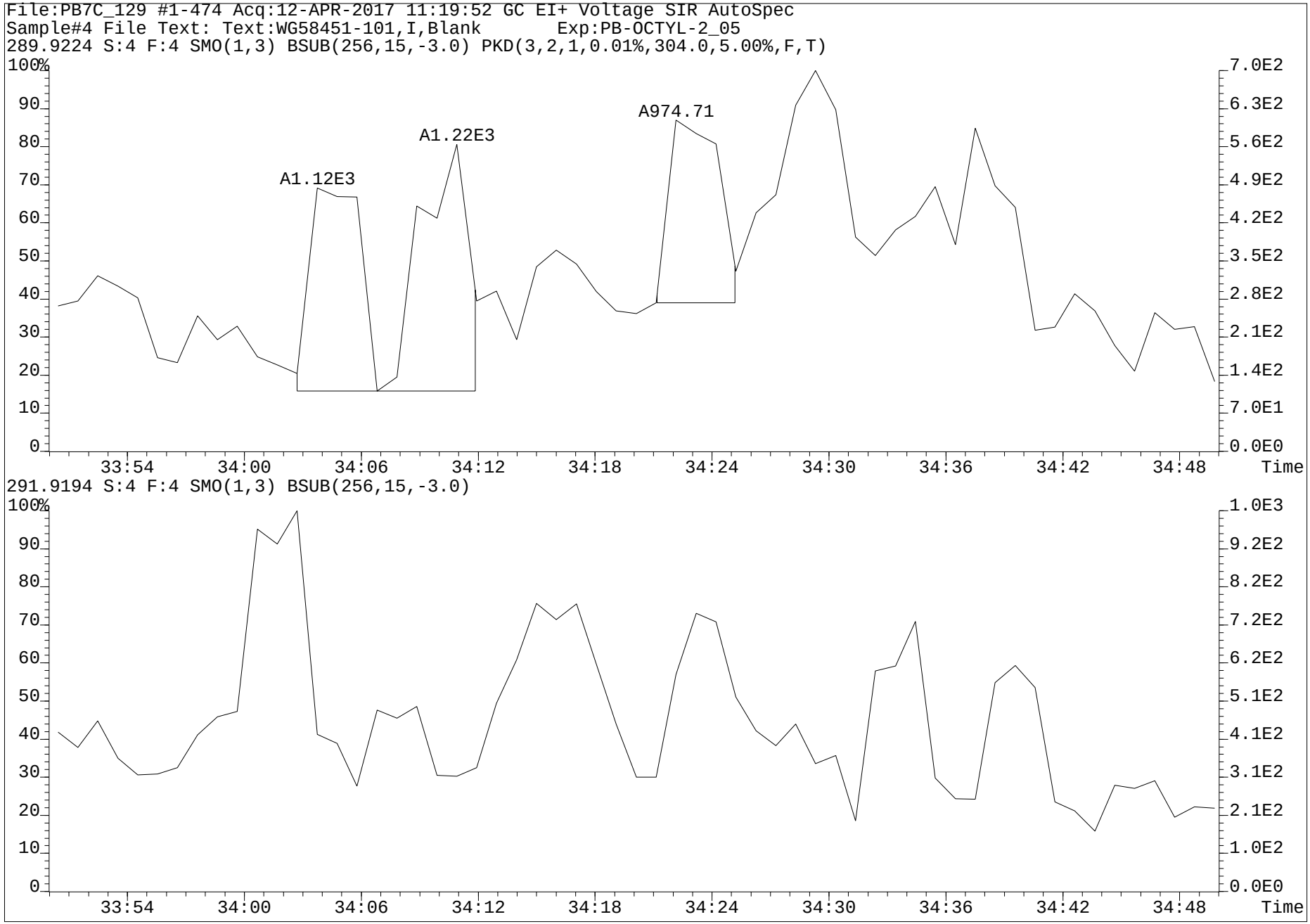

File:PB7C_129 #1-515 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.37E5
A7.62E4
A4.07E4
A2.69E4
A1.92E4
A9.11E3
A1.02E4
A1.15E4
A2.52E4
257.9584 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,324.0,5.00%,F,T)
A1.28E5
A9.94E4
A7.50E4
A2.77E4
A2.16E4
A4.78E4
A1.91E3
A1.37E4
A2.27E4
268.0016 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11844.0,5.00%,F,T)
A5.21E7
A4.67E7
A4.58E6
A5.91E6
269.9986 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6324.0,5.00%,F,T)
A4.89E7
A4.42E7
280.9825 S:4 F:3
20:13
20:52
21:15
21:43
22:10
22:42
23:25
23:52
24:20
24:44
25:13
25:58
26:23
26:57
27:25
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
2.5E4
1.3E4
0.0E0
2.2E4
1.1E4
1.0E7
5.0E6
9.4E6
4.7E6
8.0E5
4.0E5

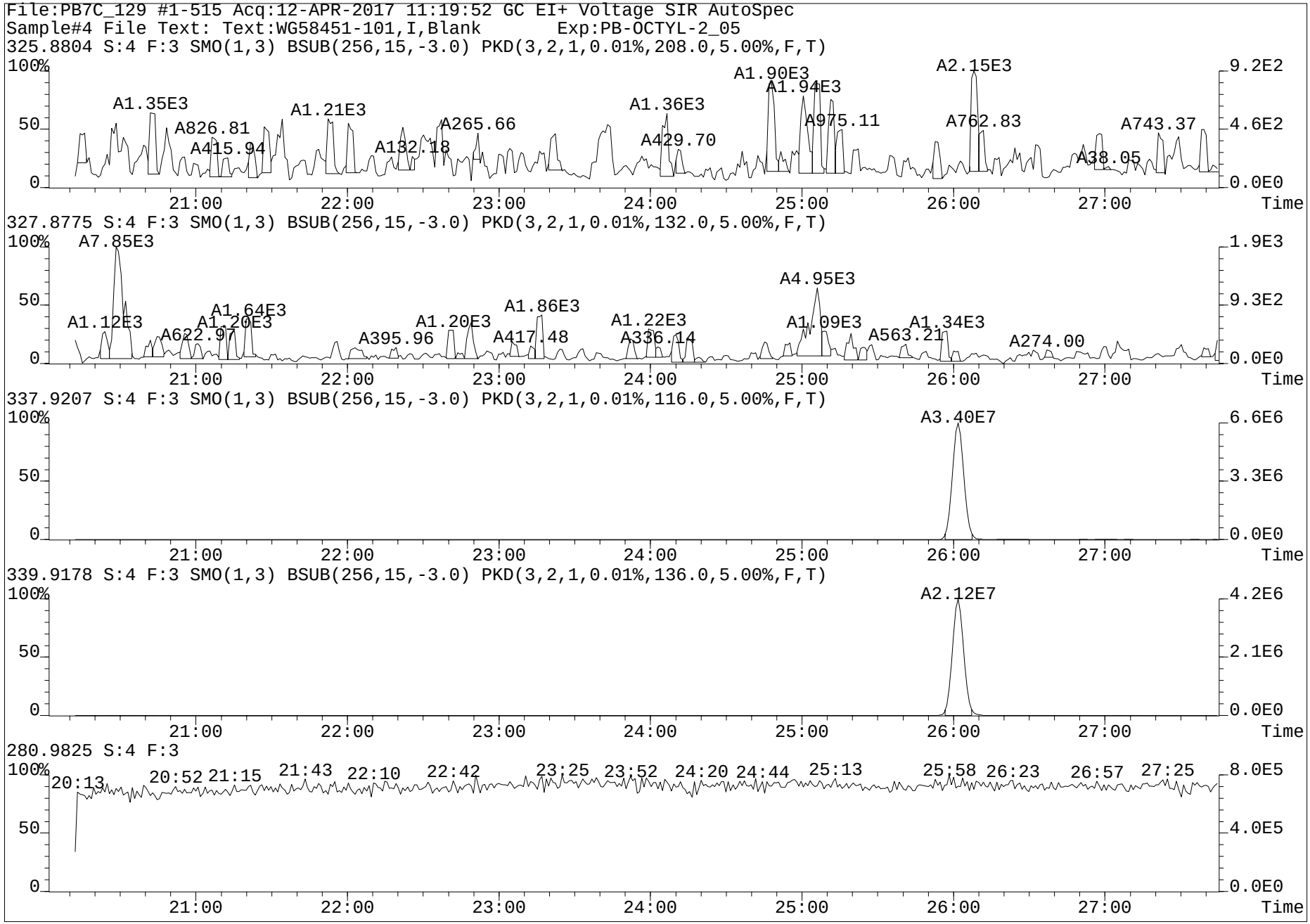

File:PB7C_129 #1-515 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.37E5
A7.62E4
A4.07E4
A2.69E4
A1.92E4
A9.11E3
A1.02E4
A2.52E4
257.9584 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,324.0,5.00%,F,T)
A1.28E5
A9.94E4
A7.50E4
A4.78E4
A2.77E4
A2.16E4
A1.37E4
A2.27E4
289.9224 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.22E5
A5.91E4
A4.99E4
A3.17E4
A8.55E3
A9.67E3
A2.21E4
291.9199 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.51E5
A9.03E4
A6.69E4
A3.22E4
A1.37E4
A3.67E4
325.8804 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,208.0,5.00%,F,T)
A1.90E3
A2.15E3
A1.45E3
A1.35E3
A1.21E3
A1.36E3
A826.81
A859.70
A975.11
A762.83
A743.37
A415.94
A132.18
A429.70
A38.05
327.8775 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A7.85E3
A4.95E3
A1.64E3
A1.86E3
A1.20E3
A1.22E3
A1.09E3
A1.34E3
A1.12E3
A622.97
A395.96
A336.14
A544.89
A442.33
A274.00
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
2.5E4
1.3E4
0.0E0
2.2E4
1.1E4
3.3E4
1.7E4
4.3E4
2.2E4
9.2E2
4.6E2
1.9E3
9.3E2

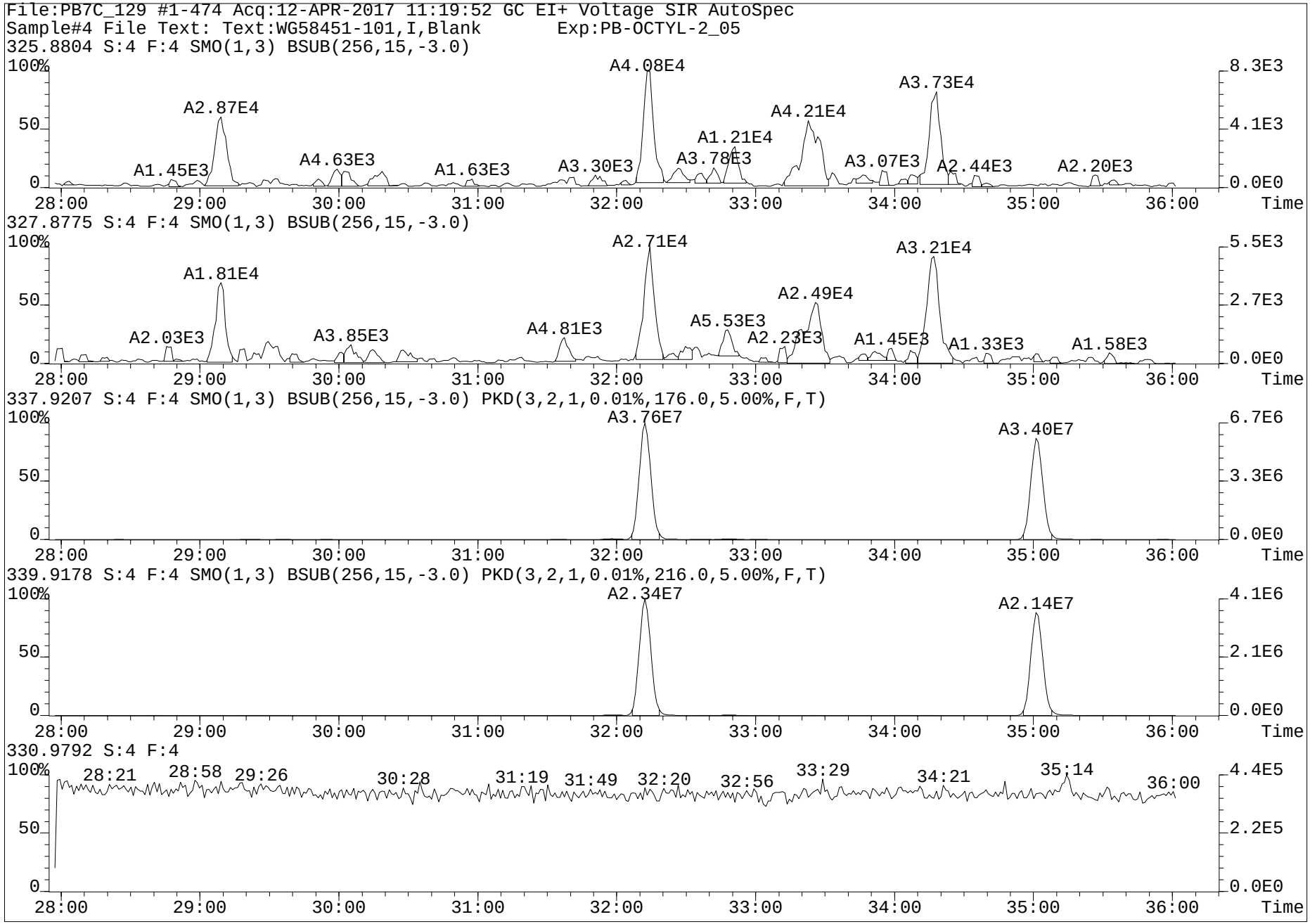

File:PB7C_129 #1-515 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.22E5
A5.91E4
A4.99E4
A3.17E4
A1.14E4
A8.55E3
A9.67E3
A2.21E4
291.9199 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.51E5
A9.03E4
A6.69E4
A3.22E4
A1.37E4
A1.03E4
A3.67E4
301.9626 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,624.0,5.00%,F,T)
A2.83E7
A3.50E7
303.9597 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,544.0,5.00%,F,T)
A3.58E7
A4.43E7
280.9825 S:4 F:3
20:13 20:52 21:15 21:43 22:10 22:42 23:25 23:52 24:20 24:44 25:13 25:58 26:23 26:57 27:25
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
3.3E4 1.7E4 0.0E0
4.3E4 2.2E4 0.0E0
6.9E6 3.4E6 0.0E0
8.8E6 4.4E6 0.0E0
8.0E5 4.0E5 0.0E0

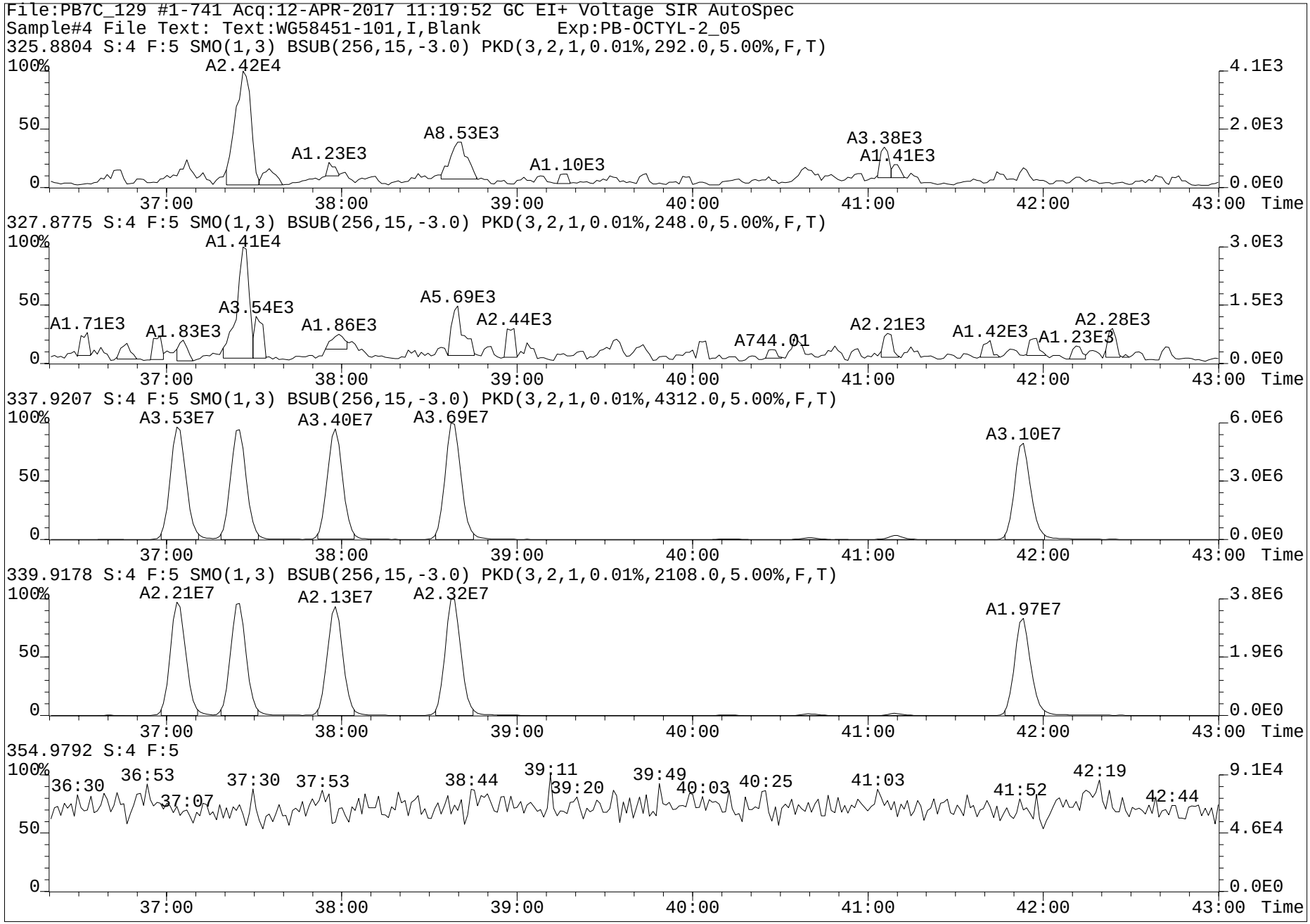

File:PB7C_129 #1-474 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A3.47E4
A4.59E4
A2.34E4
A1.66E3
A1.47E4
A3.16E3
A6.98E3
A6.20E3
A1.41E3
A974.71
A1.28E4
291.9194 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.65E4
A6.85E4
A2.76E4
A1.29E4
A3.97E3
A1.73E3
301.9626 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,892.0,5.00%,F,T)
A3.14E7
A3.07E7
303.9597 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,948.0,5.00%,F,T)
A4.01E7
A3.96E7
330.9792 S:4 F:4
28:21
28:58
29:26
30:28
31:19
31:49
32:20
32:56
33:29
34:21
35:14
36:00
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
6.6E3
3.3E3
0.0E0
8.9E3
4.5E3
5.4E6
2.7E6
6.8E6
3.4E6
4.4E5
2.2E5

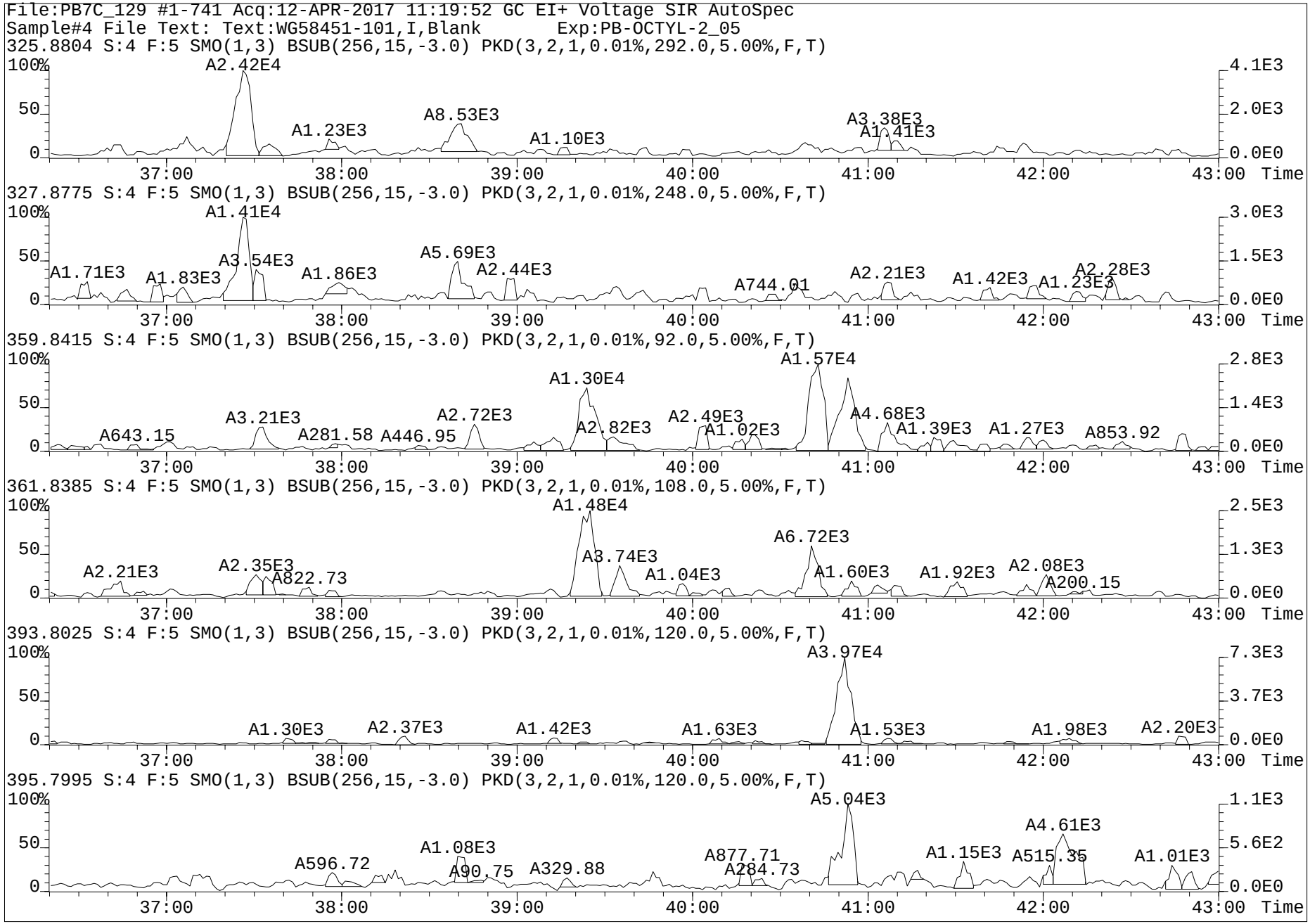

File:PB7C_129 #1-474 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A3.47E4
A4.59E4
A2.34E4
A1.66E3
A1.47E4
A1.57E3
A6.98E3
A1.41E3
A974.71
A1.28E4
291.9194 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.65E4
A6.85E4
A2.76E4
A1.29E4
A3.97E3
A1.73E3
325.8804 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.08E4
A3.73E4
A2.87E4
A4.21E4
A1.21E4
A1.45E3
A4.63E3
A1.63E3
A3.30E3
A3.78E3
A3.07E3
A2.44E3
A2.20E3
327.8775 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.71E4
A3.21E4
A1.81E4
A2.49E4
A2.03E3
A3.85E3
A4.81E3
A5.53E3
A2.23E3
A1.45E3
A1.33E3
A1.58E3
359.8415 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.15E4
A9.69E3
A1.35E3
A415.05
A582.53
A815.92
A971.03
A1.73E3
A1.19E3
361.8385 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A9.57E3
A2.45E3
A2.09E3
A1.42E3
A650.27
A602.26
A383.76
A778.50
A920.99
A1.09E3
100%
50
0
6.6E3
3.3E3
0.0E0
8.9E3
4.5E3
8.3E3
4.1E3
5.5E3
2.7E3
3.8E3
1.9E3
1.5E3
7.4E2
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time

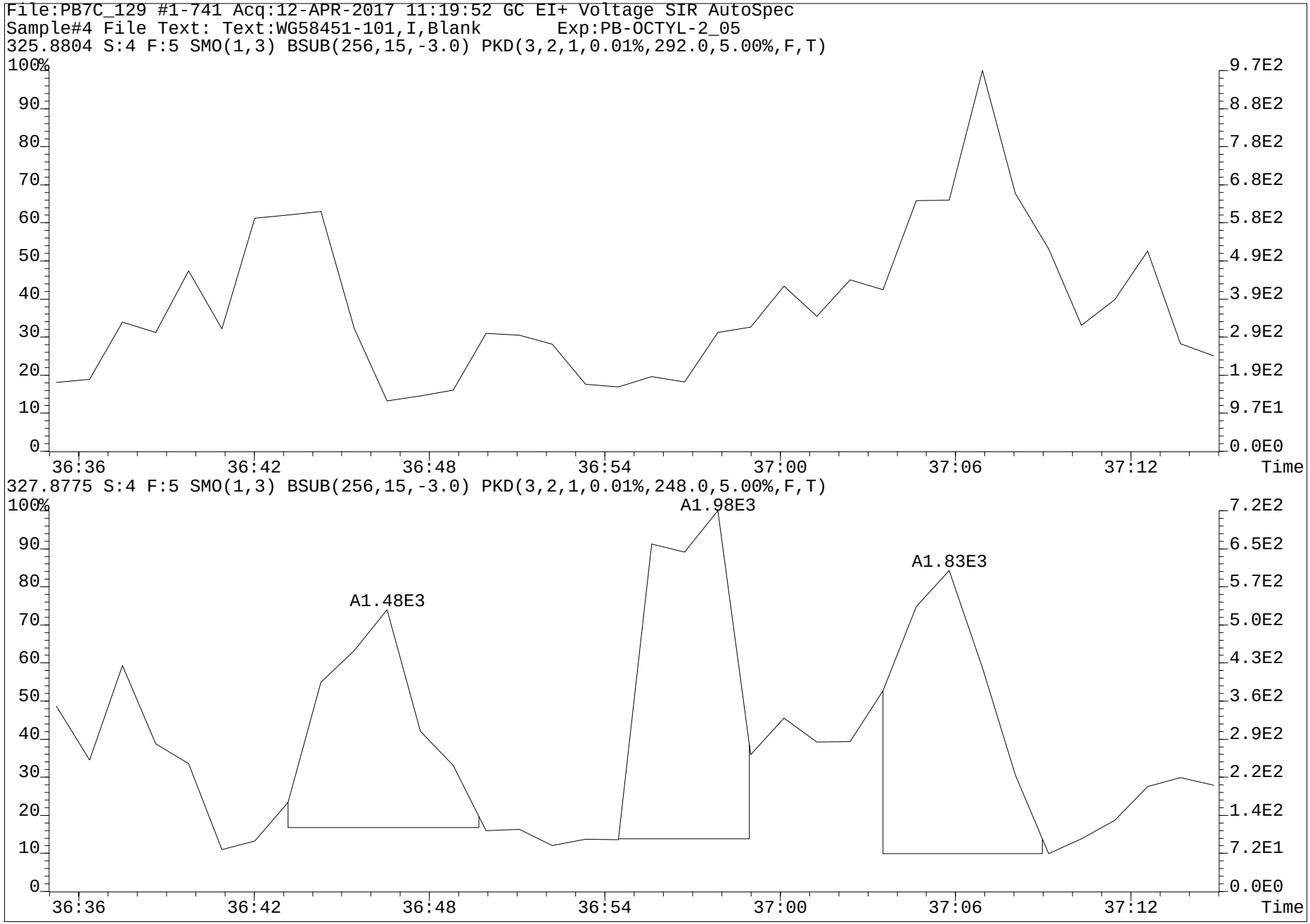

File:PB7C_129 #1-474 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.12E3
A1.22E3
A974.71
Time
291.9194 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
Time

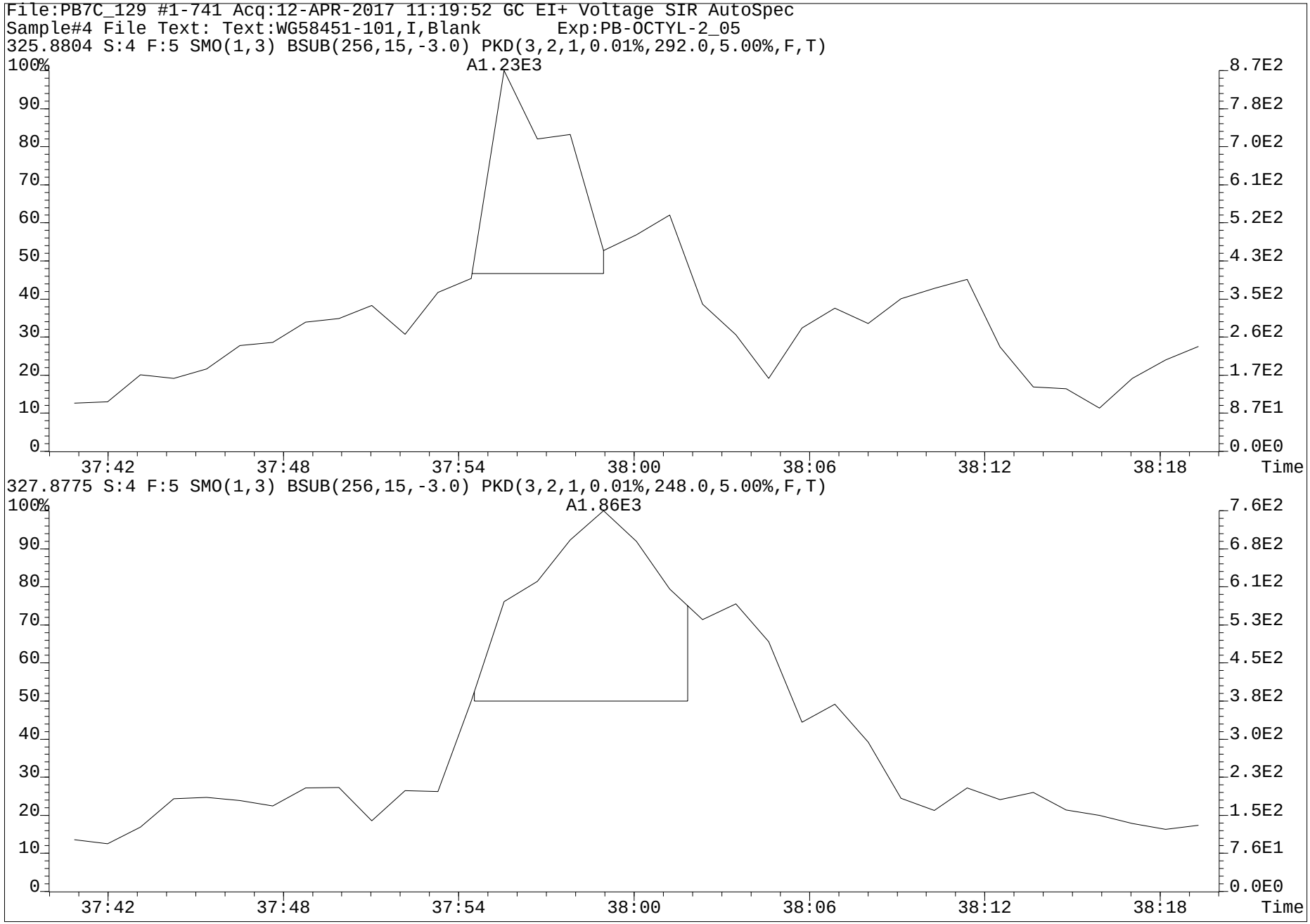

File:PB7C_129 #1-515 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,208.0,5.00%,F,T)
A1.35E3
A826.81
A415.94
A1.21E3
A132.18
A265.66
A1.36E3
A429.70
A1.90E3
A1.94E3
A975.11
A2.15E3
A762.83
A743.37
A38.05
327.8775 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A7.85E3
A1.12E3
A622.97
A1.64E3
A1.20E3
A395.96
A1.20E3
A417.48
A1.86E3
A1.22E3
A336.14
A4.95E3
A1.09E3
A563.21
A1.34E3
A274.00
337.9207 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A3.40E7
339.9178 S:4 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A2.12E7
280.9825 S:4 F:3
20:13
20:52
21:15
21:43
22:10
22:42
23:25
23:52
24:20
24:44
25:13
25:58
26:23
26:57
27:25
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
9.2E2
4.6E2
0.0E0
1.9E3
9.3E2
6.6E6
3.3E6
4.2E6
2.1E6
8.0E5
4.0E5

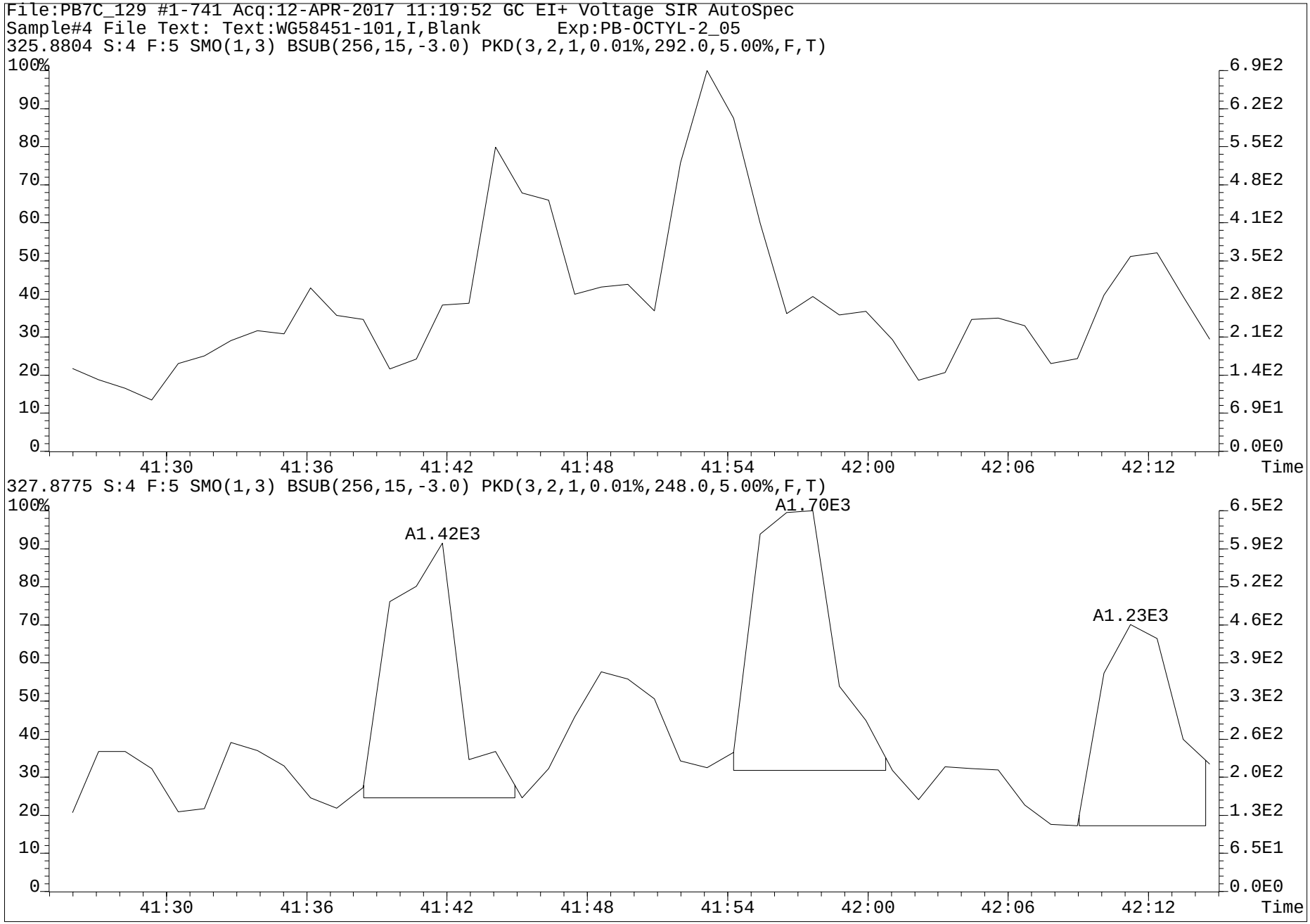

File:PB7C_129 #1-474 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.08E4
A3.73E4
A2.87E4
A4.21E4
A1.21E4
A3.78E3
A1.45E3
A4.63E3
A1.63E3
A3.30E3
A3.07E3
A2.44E3
A2.20E3
8.3E3
4.1E3
0.0E0
327.8775 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.71E4
A3.21E4
A1.81E4
A2.49E4
A5.53E3
A2.03E3
A3.85E3
A4.81E3
A2.23E3
A1.45E3
A1.33E3
A1.58E3
5.5E3
2.7E3
0.0E0
337.9207 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A3.76E7
A3.40E7
6.7E6
3.3E6
0.0E0
339.9178 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,216.0,5.00%,F,T)
A2.34E7
A2.14E7
4.1E6
2.1E6
0.0E0
330.9792 S:4 F:4
28:21
28:58
29:26
30:28
31:19
31:49
32:20
32:56
33:29
34:21
35:14
36:00
4.4E5
2.2E5
0.0E0
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time

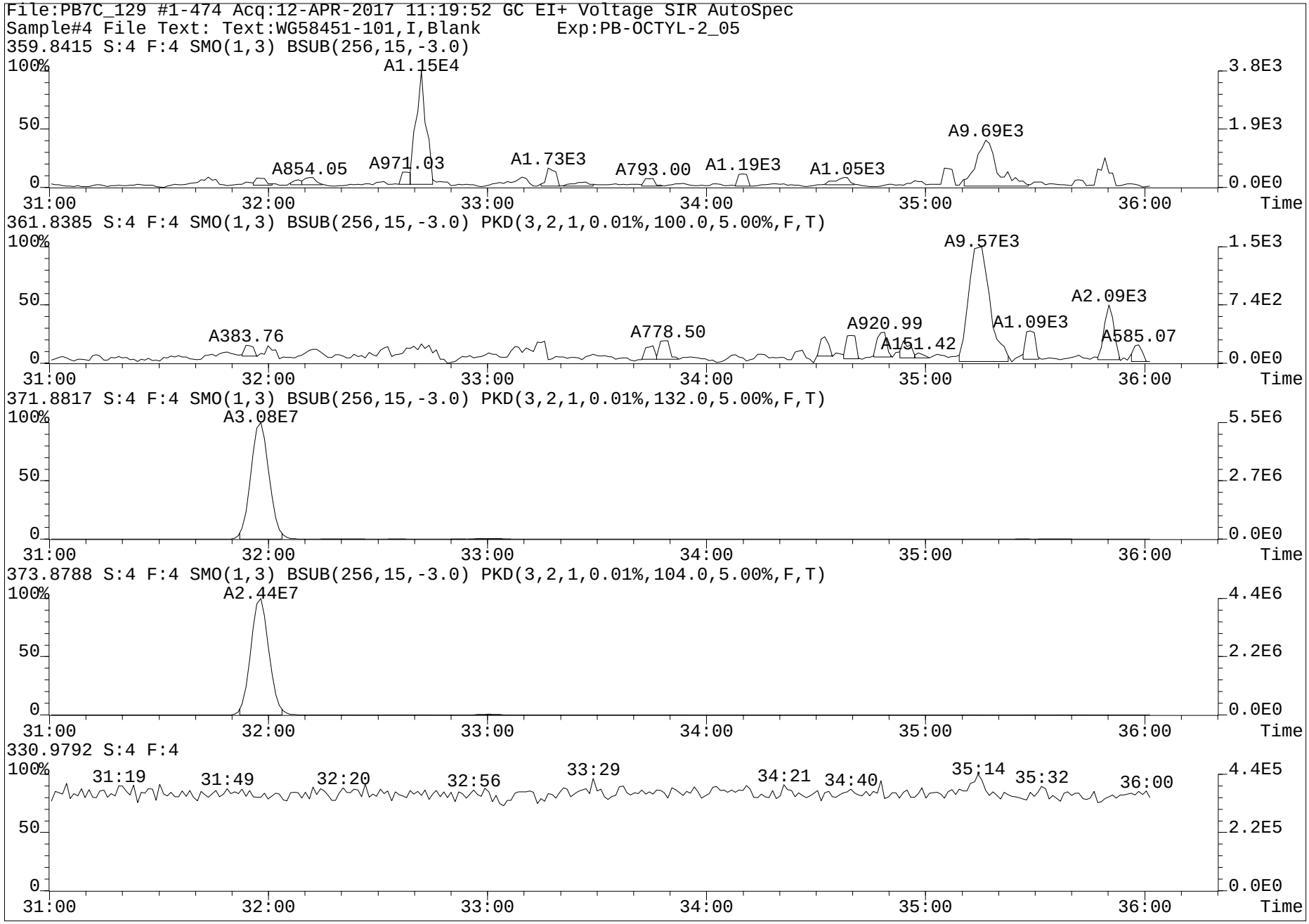

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A2.42E4
A1.23E3
A8.53E3
A1.10E3
A3.38E3
A1.41E3
327.8775 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.41E4
A1.71E3
A1.83E3
A3.54E3
A1.86E3
A5.69E3
A2.44E3
A744.01
A2.21E3
A1.42E3
A1.23E3
A2.28E3
337.9207 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4312.0,5.00%,F,T)
A3.53E7
A3.40E7
A3.69E7
A3.10E7
339.9178 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2108.0,5.00%,F,T)
A2.21E7
A2.13E7
A2.32E7
A1.97E7
354.9792 S:4 F:5
36:30
36:53
37:07
37:30
37:53
38:44
39:11
39:20
39:49
40:03
40:25
41:03
41:52
42:19
42:44
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
4.1E3
2.0E3
0.0E0
3.0E3
1.5E3
6.0E6
3.0E6
3.8E6
1.9E6
9.1E4
4.6E4

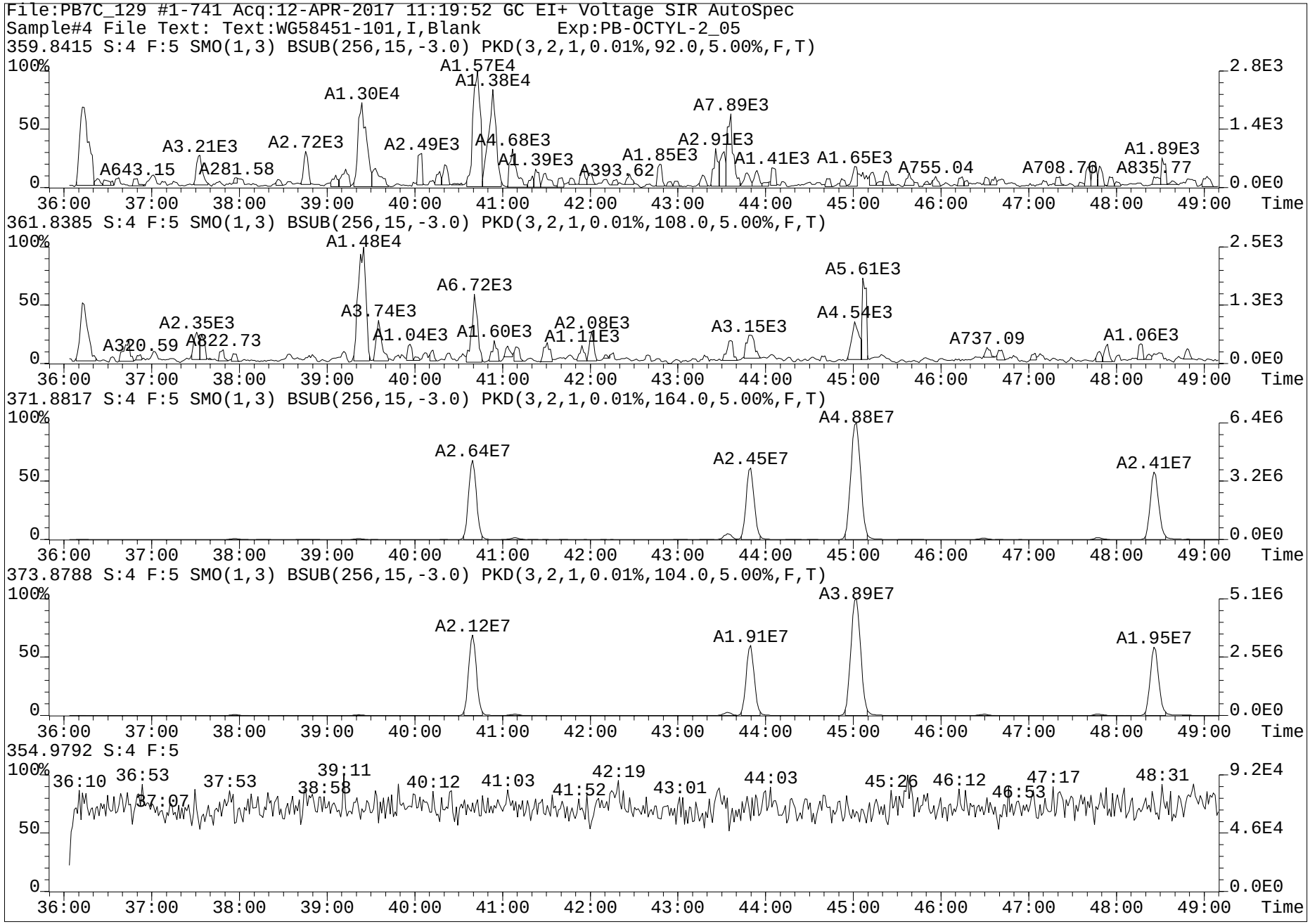

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A2.42E4
A1.23E3
A8.53E3
A1.10E3
A3.38E3
A1.41E3
327.8775 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.41E4
A1.71E3
A1.83E3
A3.54E3
A1.86E3
A5.69E3
A2.44E3
A744.01
A2.21E3
A1.42E3
A1.23E3
A2.28E3
359.8415 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,92.0,5.00%,F,T)
A1.57E4
A1.30E4
A643.15
A3.21E3
A281.58
A446.95
A2.72E3
A2.82E3
A2.49E3
A1.02E3
A4.68E3
A1.39E3
A1.27E3
A853.92
361.8385 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.48E4
A6.72E3
A2.21E3
A2.35E3
A822.73
A3.74E3
A1.04E3
A1.60E3
A1.92E3
A2.08E3
A200.15
393.8025 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A3.97E4
A1.30E3
A2.37E3
A1.42E3
A1.63E3
A1.53E3
A1.98E3
A2.20E3
395.7995 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A5.04E3
A4.61E3
A1.08E3
A596.72
A90.75
A329.88
A877.71
A284.73
A1.15E3
A515.35
A1.01E3
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
4.1E3
2.0E3
0.0E0
3.0E3
1.5E3
2.8E3
1.4E3
2.5E3
1.3E3
7.3E3
3.7E3
1.1E3
5.6E2

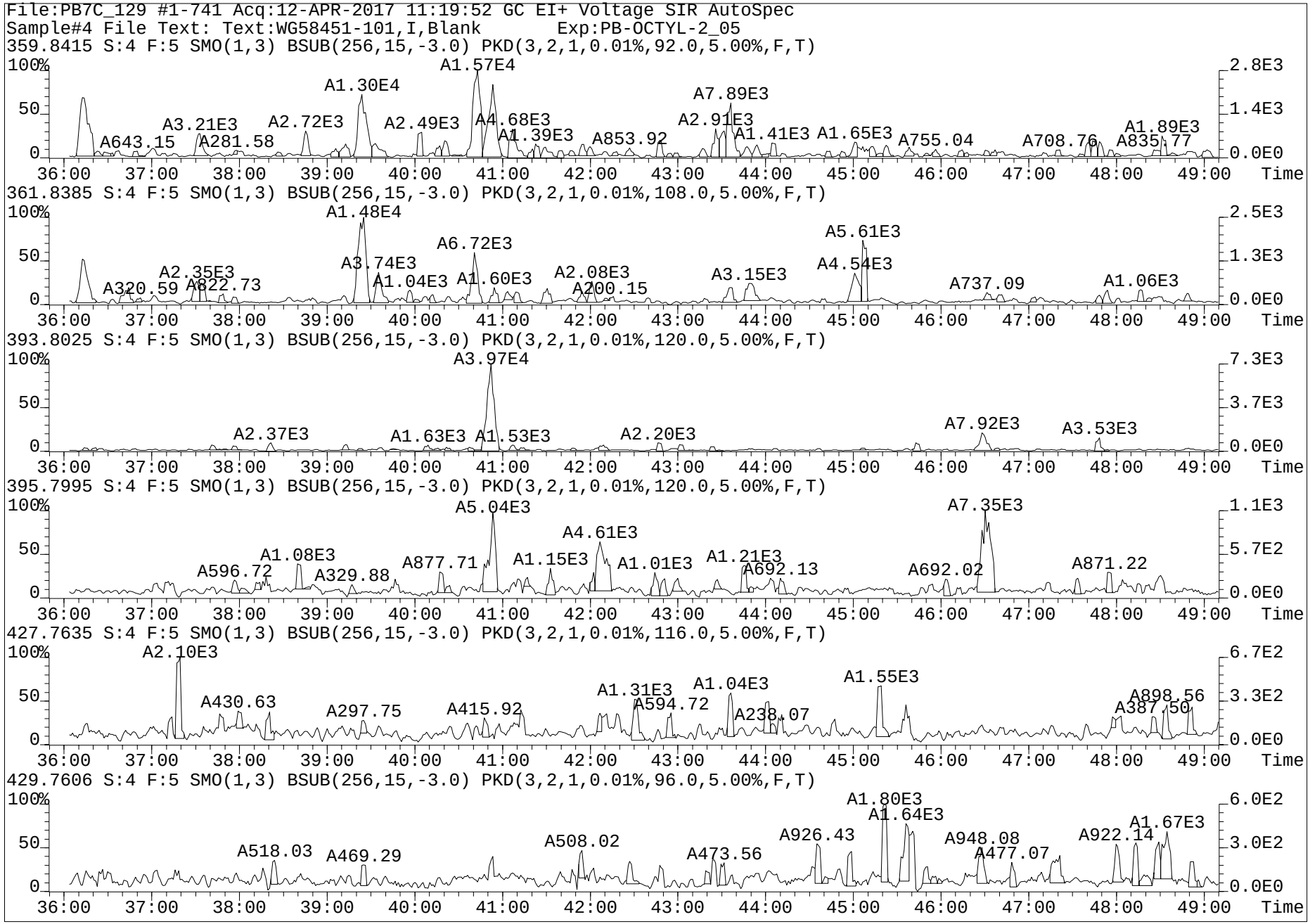

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
9.7E2
8.8E2
7.8E2
6.8E2
5.8E2
4.9E2
3.9E2
2.9E2
1.9E2
9.7E1
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time
327.8775 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.98E3
A1.83E3
A1.48E3
7.2E2
6.5E2
5.7E2
5.0E2
4.3E2
3.6E2
2.9E2
2.2E2
1.4E2
7.2E1
0.0E0

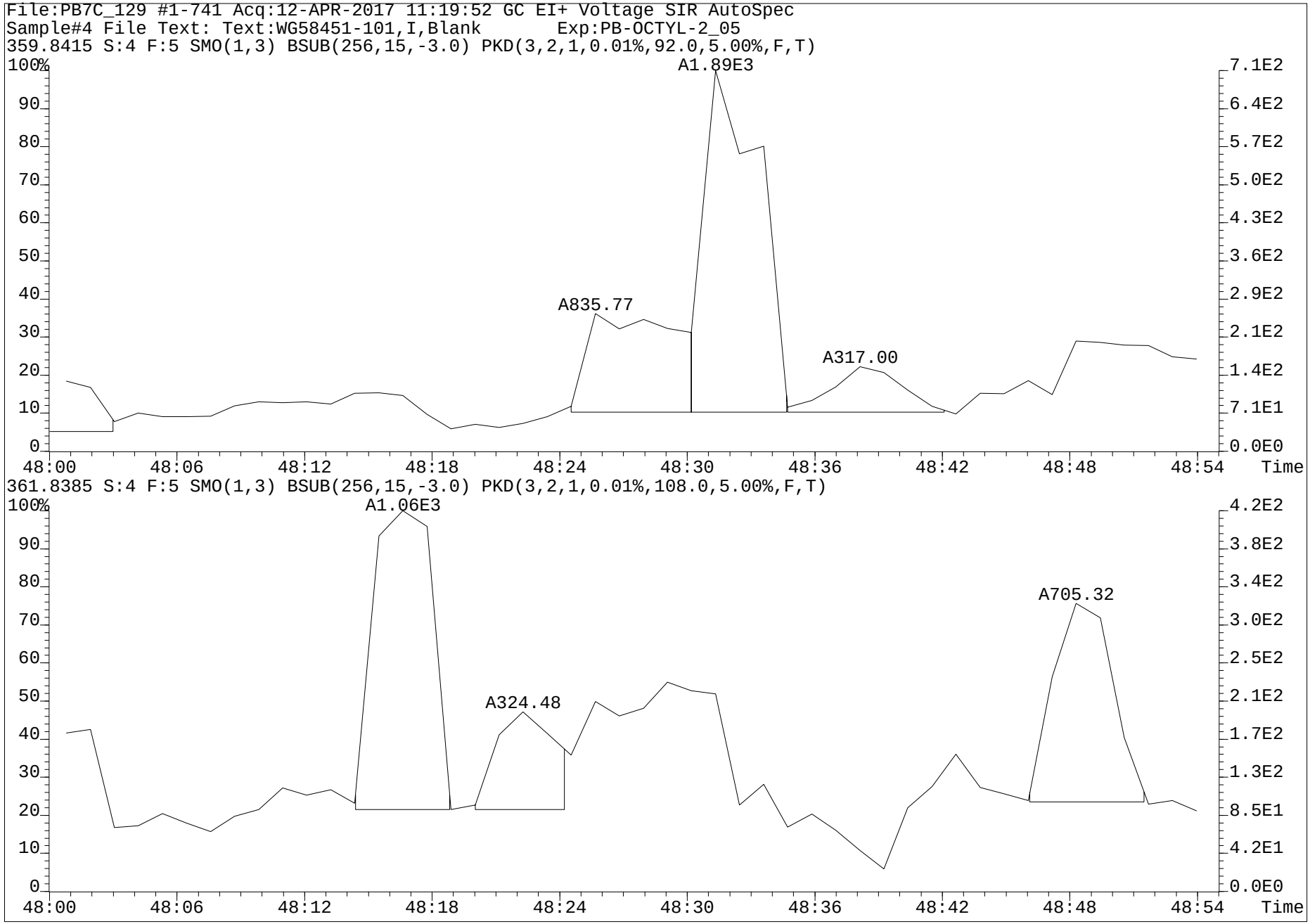

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
100%
A1.23E3
90
80
70
60
50
40
30
20
10
0
8.7E2
7.8E2
7.0E2
6.1E2
5.2E2
4.3E2
3.5E2
2.6E2
1.7E2
8.7E1
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time
327.8775 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
100%
A1.86E3
90
80
70
60
50
40
30
20
10
0
7.6E2
6.8E2
6.1E2
5.3E2
4.5E2
3.8E2
3.0E2
2.3E2
1.5E2
7.6E1
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time

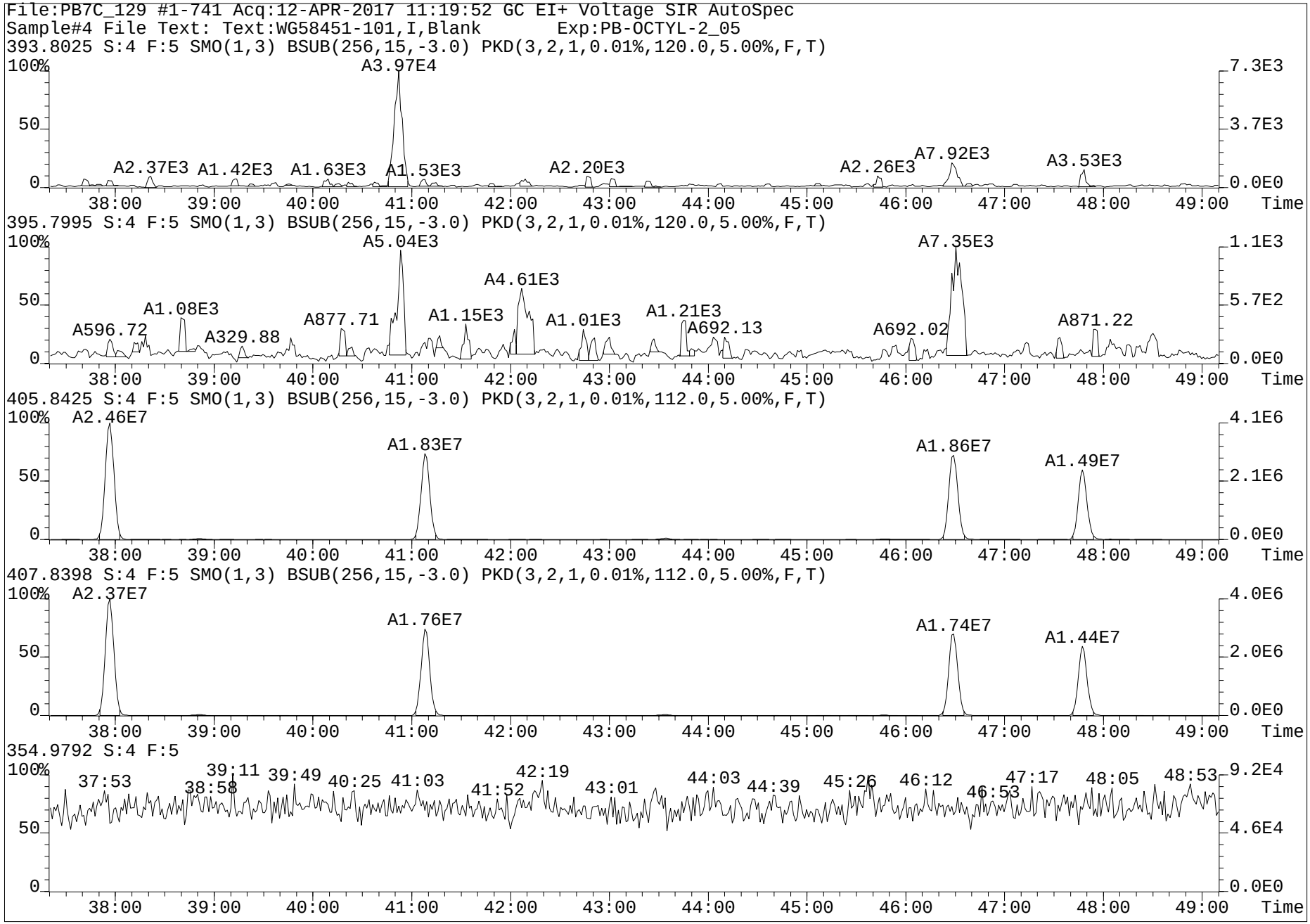

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
6.9E2
6.2E2
5.5E2
4.8E2
4.1E2
3.5E2
2.8E2
2.1E2
1.4E2
6.9E1
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
327.8775 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
100%
90
80
70
60
50
40
30
20
10
0
A1.42E3
A1.70E3
A1.23E3
6.5E2
5.9E2
5.2E2
4.6E2
3.9E2
3.3E2
2.6E2
2.0E2
1.3E2
6.5E1
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

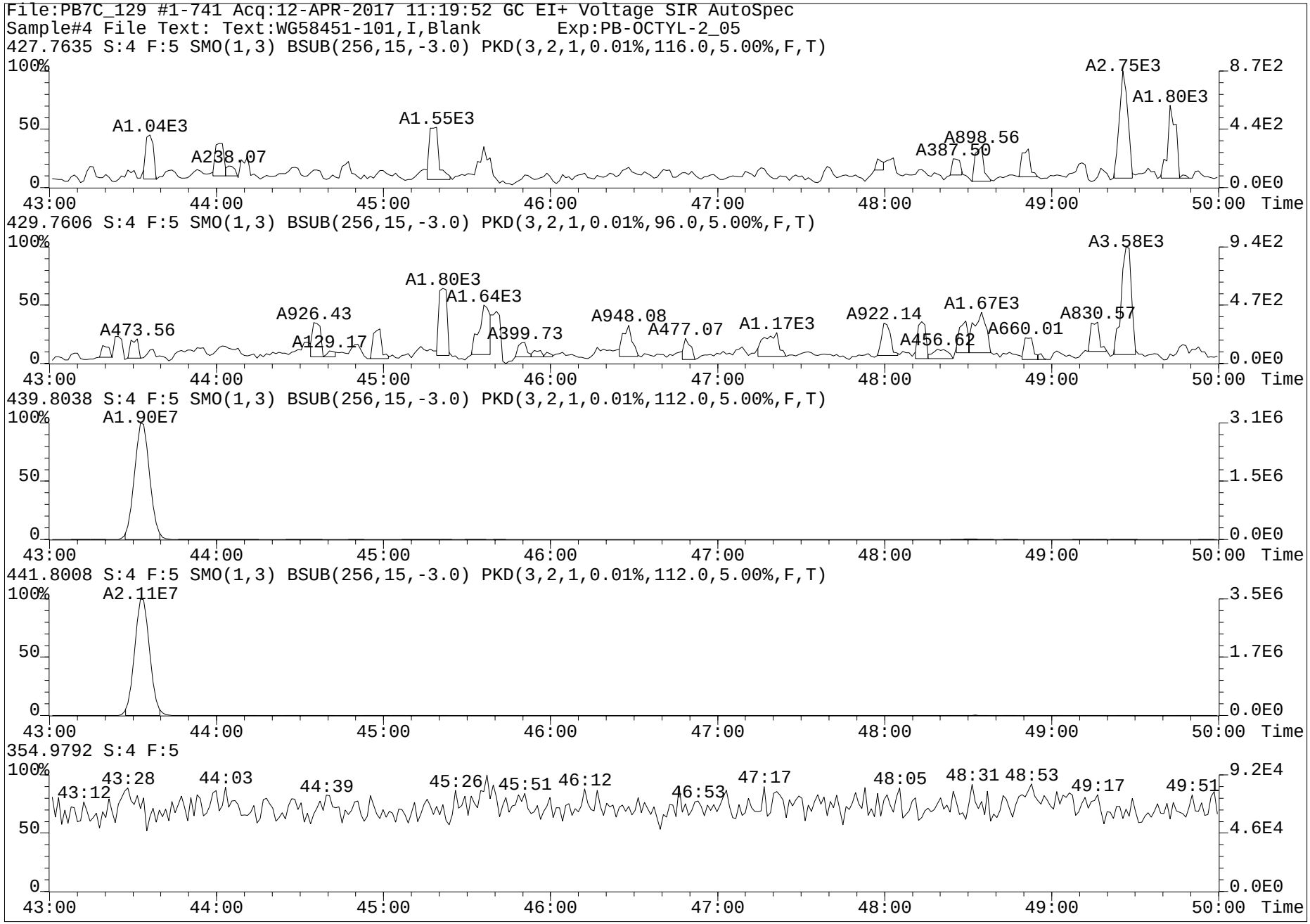

File:PB7C_129 #1-474 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.15E4
A854.05
A971.03
A1.73E3
A793.00
A1.19E3
A1.05E3
A9.69E3
361.8385 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A9.57E3
A2.09E3
A383.76
A778.50
A920.99
A1.09E3
A151.42
A585.07
371.8817 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A3.08E7
373.8788 S:4 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A2.44E7
330.9792 S:4 F:4
31:19
31:49
32:20
32:56
33:29
34:21
34:40
35:14
35:32
36:00
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.8E3
1.9E3
0.0E0
1.5E3
7.4E2
5.5E6
2.7E6
4.4E6
2.2E6
4.4E5
2.2E5

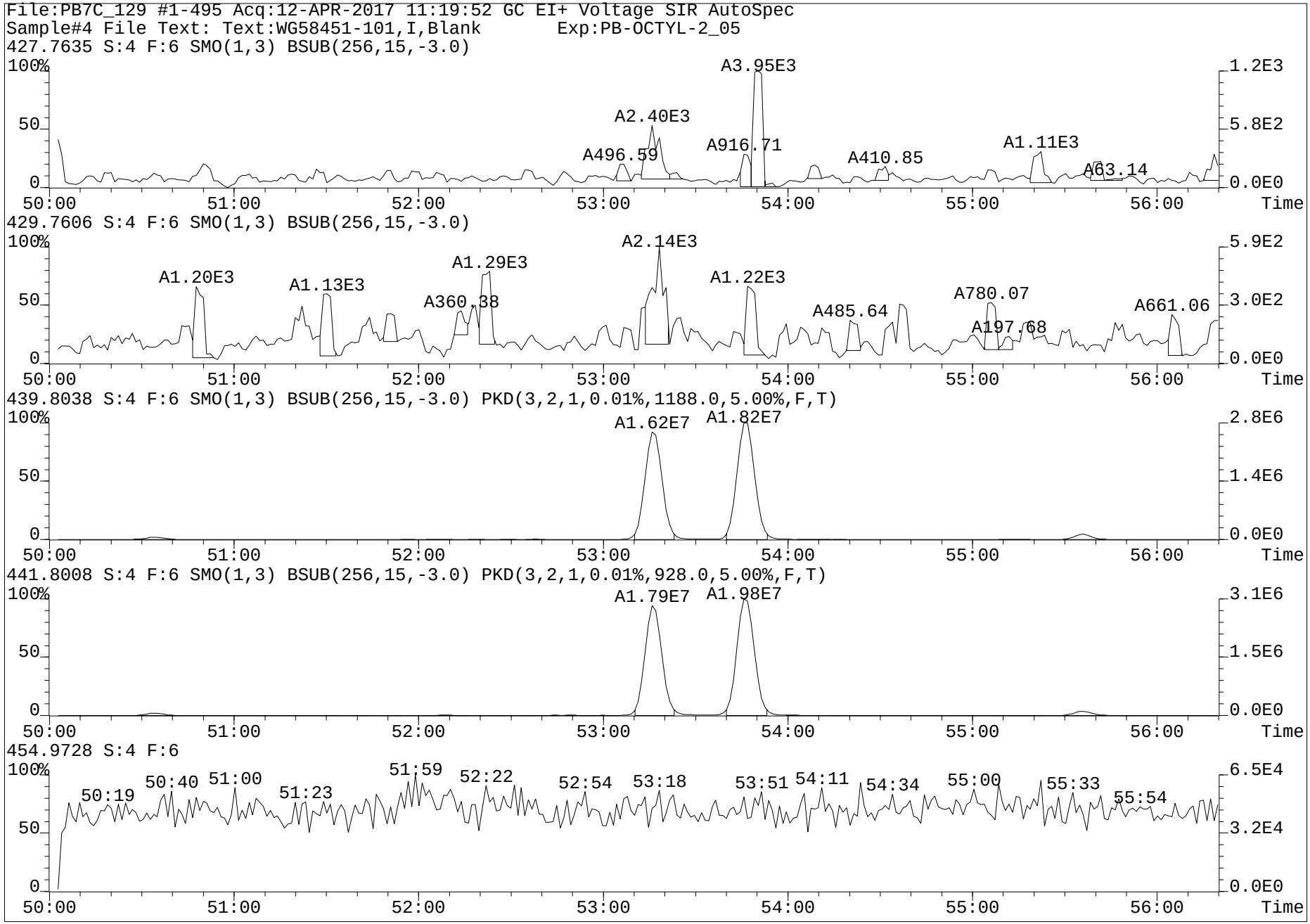

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,92.0,5.00%,F,T)
A1.57E4
A1.38E4
A1.30E4
A7.89E3
A3.21E3
A2.72E3
A2.49E3
A4.68E3
A2.91E3
A1.89E3
A643.15
A281.58
A1.39E3
A393.62
A1.85E3
A1.41E3
A1.65E3
A755.04
A708.70
A835.77
361.8385 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.48E4
A5.61E3
A6.72E3
A3.74E3
A4.54E3
A2.35E3
A2.08E3
A3.15E3
A320.59
A822.73
A1.04E3
A1.60E3
A1.11E3
A737.09
A1.06E3
371.8817 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,164.0,5.00%,F,T)
A4.88E7
A2.64E7
A2.45E7
A2.41E7
373.8788 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A3.89E7
A2.12E7
A1.91E7
A1.95E7
354.9792 S:4 F:5
36:10
36:53
37:07
37:53
38:58
39:11
40:12
41:03
41:52
42:19
43:01
44:03
45:26
46:12
46:53
47:17
48:31
100%
50
0
2.8E3
1.4E3
0.0E0
2.5E3
1.3E3
0.0E0
6.4E6
3.2E6
0.0E0
5.1E6
2.5E6
0.0E0
9.2E4
4.6E4
0.0E0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

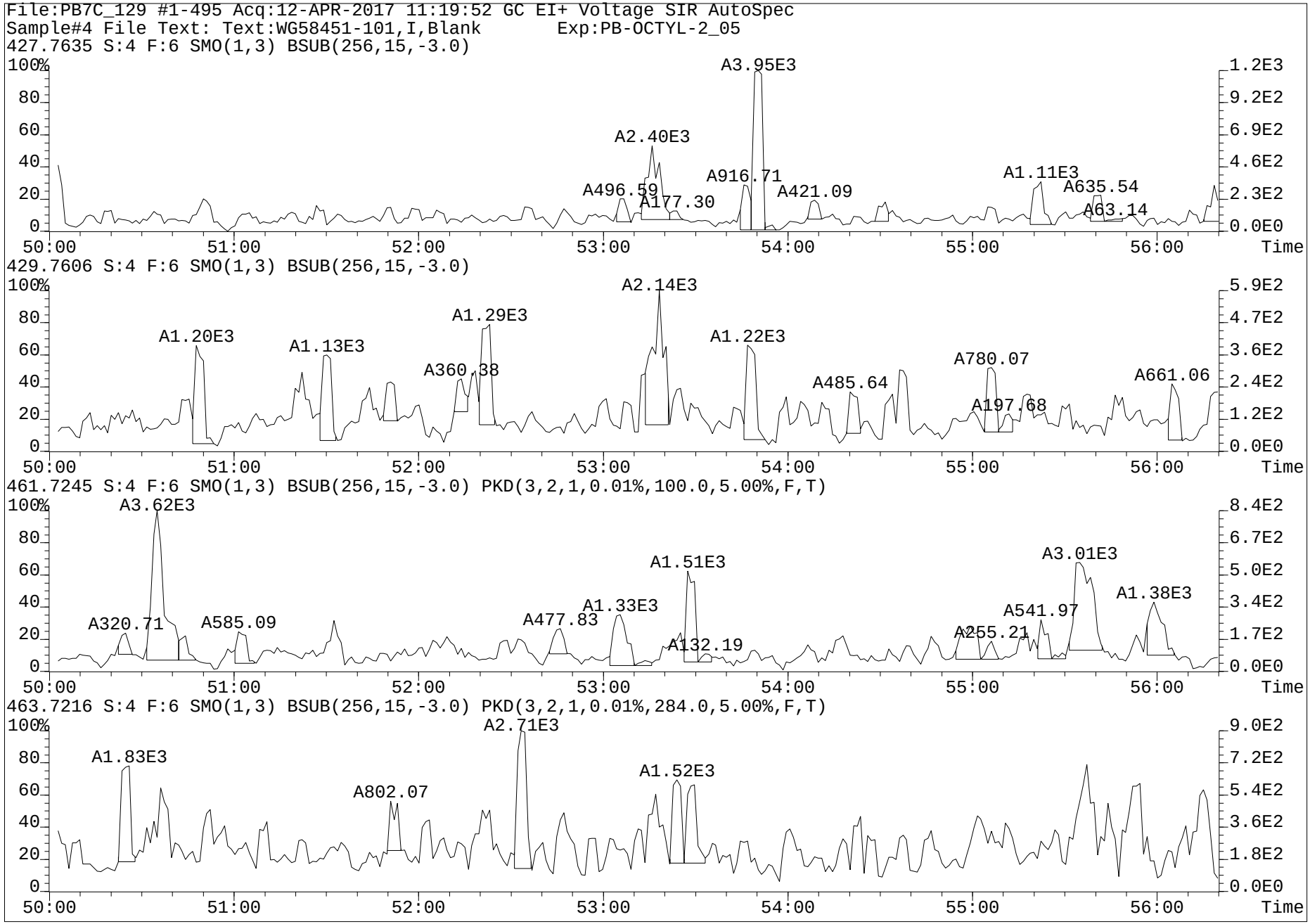

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,92.0,5.00%,F,T)
A1.57E4
A1.30E4
A7.89E3
A3.21E3
A2.72E3
A2.49E3
A4.68E3
A2.91E3
A1.89E3
A643.15
A281.58
A1.39E3
A853.92
A1.41E3
A1.65E3
A755.04
A708.76
A835.77
361.8385 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.48E4
A6.72E3
A5.61E3
A3.74E3
A2.35E3
A4.54E3
A320.59
A822.73
A1.04E3
A1.60E3
A2.08E3
A200.15
A3.15E3
A737.09
A1.06E3
393.8025 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A3.97E4
A2.37E3
A1.63E3
A1.53E3
A2.20E3
A7.92E3
A3.53E3
395.7995 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A5.04E3
A7.35E3
A4.61E3
A1.08E3
A596.72
A329.88
A877.71
A1.15E3
A1.01E3
A1.21E3
A692.13
A692.02
A871.22
427.7635 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A2.10E3
A1.55E3
A1.31E3
A1.04E3
A430.63
A297.75
A415.92
A594.72
A238.07
A898.56
A387.50
429.7606 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,96.0,5.00%,F,T)
A1.80E3
A1.64E3
A1.67E3
A926.43
A948.08
A922.14
A518.03
A469.29
A508.02
A473.56
A477.07
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
2.8E3
1.4E3
0.0E0
2.5E3
1.3E3
7.3E3
3.7E3
1.1E3
5.7E2
6.7E2
3.3E2
6.0E2
3.0E2

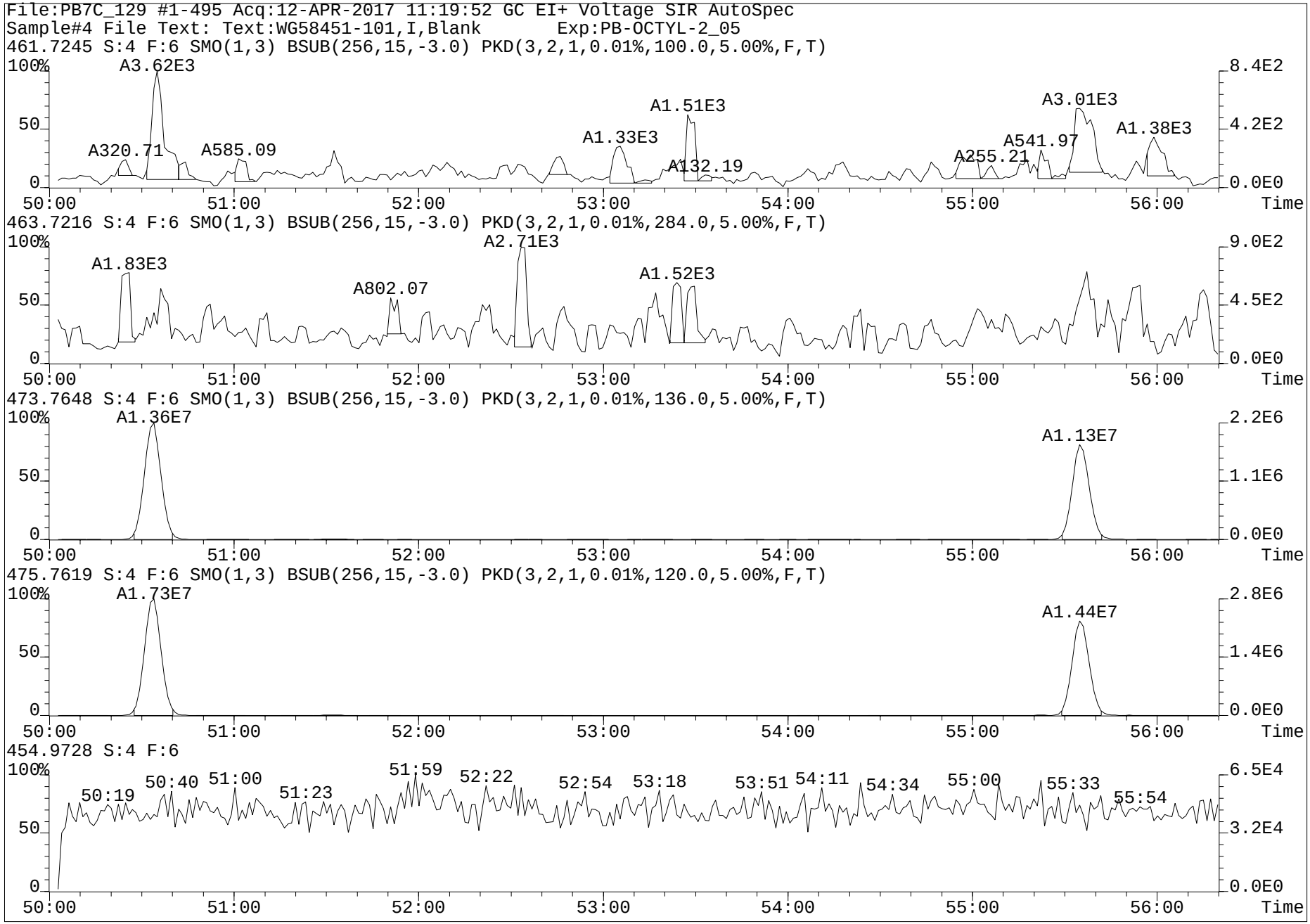

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,92.0,5.00%,F,T)
A1.89E3
A835.77
A317.00
361.8385 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.06E3
A324.48
A705.32
Time

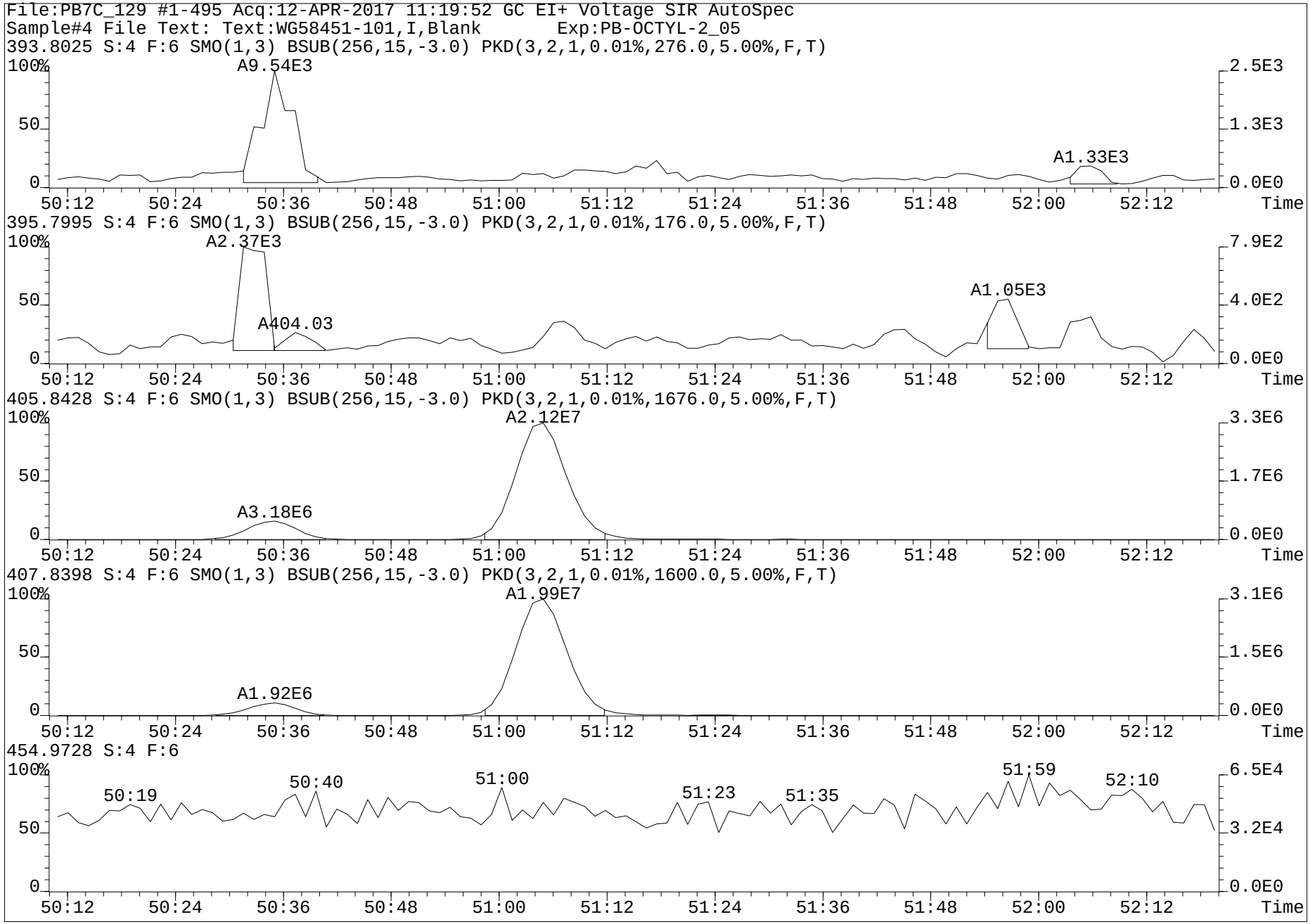

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A3.97E4
A2.37E3
A1.42E3
A1.63E3
A1.53E3
A2.20E3
A2.26E3
A7.92E3
A3.53E3
395.7995 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A5.04E3
A7.35E3
A4.61E3
A1.08E3
A596.72
A329.88
A877.71
A1.15E3
A1.01E3
A1.21E3
A692.13
A692.02
A871.22
405.8425 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A2.46E7
A1.83E7
A1.86E7
A1.49E7
407.8398 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A2.37E7
A1.76E7
A1.74E7
A1.44E7
354.9792 S:4 F:5
37:53
38:58
39:11
39:49
40:25
41:03
41:52
42:19
43:01
44:03
44:39
45:26
46:12
46:53
47:17
48:05
48:53
100%
50
0
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
7.3E3
3.7E3
0.0E0
1.1E3
5.7E2
4.1E6
2.1E6
4.0E6
2.0E6
9.2E4
4.6E4

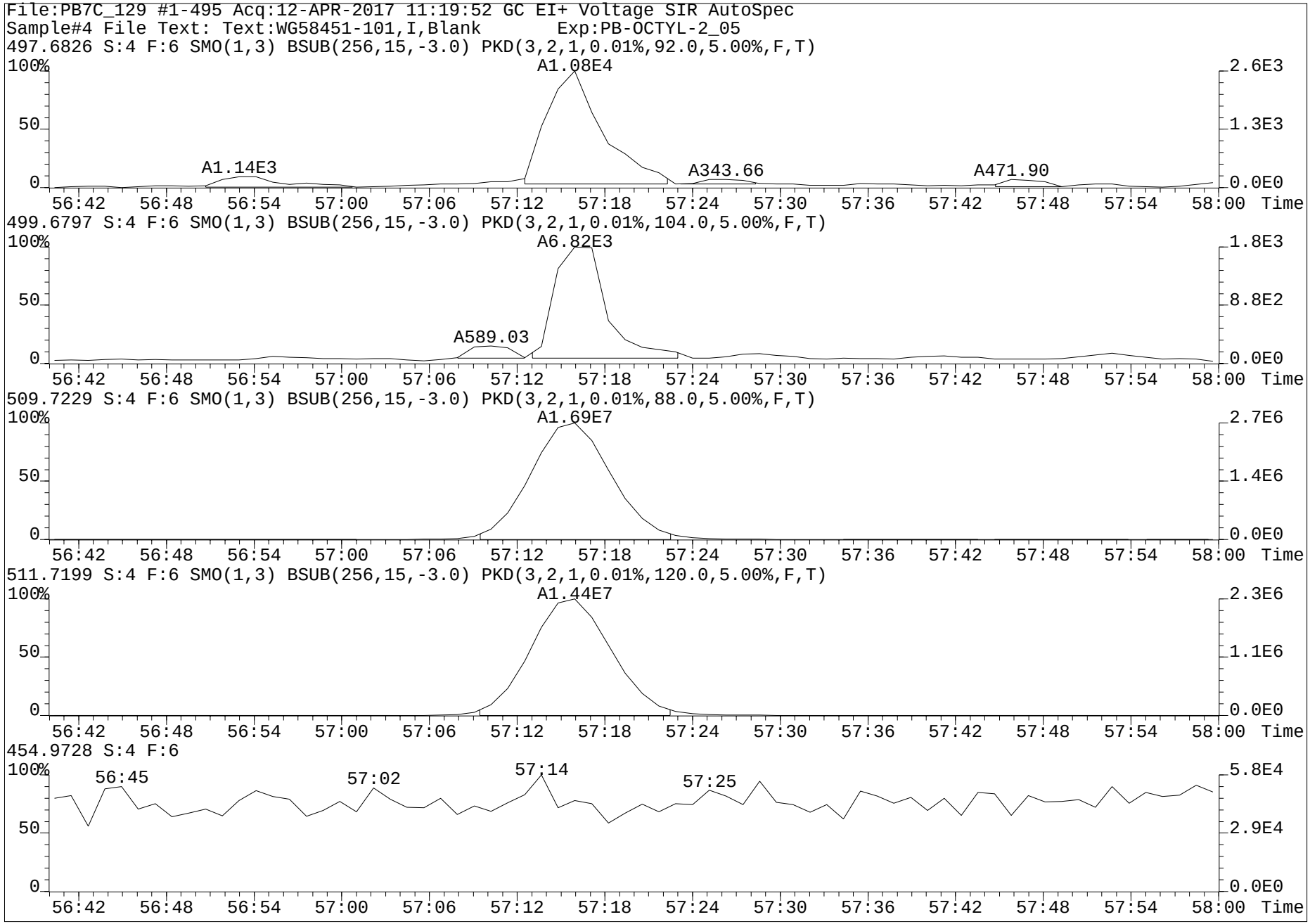

File:PB7C_129 #1-741 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.04E3
A238.07
A1.55E3
A387.50
A898.56
A2.75E3
A1.80E3
8.7E2
4.4E2
0.0E0
429.7606 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,96.0,5.00%,F,T)
A473.56
A926.43
A129.17
A1.80E3
A1.64E3
A399.73
A948.08
A477.07
A1.17E3
A922.14
A456.62
A1.67E3
A660.01
A830.57
A3.58E3
9.4E2
4.7E2
0.0E0
439.8038 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A1.90E7
3.1E6
1.5E6
0.0E0
441.8008 S:4 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A2.11E7
3.5E6
1.7E6
0.0E0
354.9792 S:4 F:5
43:12
43:28
44:03
44:39
45:26
45:51
46:12
46:53
47:17
48:05
48:31
48:53
49:17
49:51
9.2E4
4.6E4
0.0E0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0)
A3.95E3
A2.40E3
A916.71
A496.59
A410.85
A1.11E3
A63.14
429.7606 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0)
A2.14E3
A1.29E3
A1.20E3
A1.13E3
A1.22E3
A360.38
A780.07
A485.64
A661.06
A197.68
439.8038 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1188.0,5.00%,F,T)
A1.62E7
A1.82E7
441.8008 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,928.0,5.00%,F,T)
A1.79E7
A1.98E7
454.9728 S:4 F:6
50:19
50:40
51:00
51:23
51:59
52:22
52:54
53:18
53:51
54:11
54:34
55:00
55:33
55:54
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.2E3
5.8E2
0.0E0
5.9E2
3.0E2
2.8E6
1.4E6
3.1E6
1.5E6
6.5E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0)
A3.95E3
A2.40E3
A916.71
A1.11E3
A635.54
A496.59
A177.30
A421.09
A63.14
429.7606 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0)
A2.14E3
A1.29E3
A1.20E3
A1.13E3
A1.22E3
A780.07
A360.38
A485.64
A661.06
A197.68
461.7245 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A3.62E3
A1.51E3
A3.01E3
A1.38E3
A1.33E3
A541.97
A320.71
A585.09
A477.83
A255.21
A132.19
463.7216 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A2.71E3
A1.83E3
A1.52E3
A802.07
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
461.7245 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A3.62E3
A320.71
A585.09
A1.33E3
A1.51E3
A132.19
A255.21
A541.97
A3.01E3
A1.38E3
463.7216 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A1.83E3
A802.07
A2.71E3
A1.52E3
473.7648 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.36E7
A1.13E7
475.7619 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.73E7
A1.44E7
454.9728 S:4 F:6
50:19
50:40
51:00
51:23
51:59
52:22
52:54
53:18
53:51
54:11
54:34
55:00
55:33
55:54
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
8.4E2
4.2E2
0.0E0
9.0E2
4.5E2
2.2E6
1.1E6
2.8E6
1.4E6
6.5E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,276.0,5.00%,F,T)
A9.54E3
A1.33E3
395.7995 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A2.37E3
A404.03
A1.05E3
405.8428 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1676.0,5.00%,F,T)
A2.12E7
A3.18E6
407.8398 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1600.0,5.00%,F,T)
A1.99E7
A1.92E6
454.9728 S:4 F:6
50:19
50:40
51:00
51:23
51:35
51:59
52:10
100%
50
0
2.5E3
1.3E3
0.0E0
7.9E2
4.0E2
3.3E6
1.7E6
3.1E6
1.5E6
6.5E4
3.2E4
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 11:19:52 GC EI+ Voltage SIR AutoSpec
Sample#4 File Text: Text:WG58451-101,I,Blank Exp:PB-OCTYL-2_05
497.6826 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,92.0,5.00%,F,T)
A1.08E4
A1.14E3
A343.66
A471.90
499.6797 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A6.82E3
A589.03
509.7229 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,88.0,5.00%,F,T)
A1.69E7
511.7199 S:4 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.44E7
454.9728 S:4 F:6
56:45
57:02
57:14
57:25
100%
50
0
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.6E3
1.3E3
0.0E0
1.8E3
8.8E2
2.7E6
1.4E6
2.3E6
1.1E6
5.8E4
2.9E4

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Run #11 Filename PB7C_129 S: 5 I: 1 Acquired: 12-APR-17 12:24:07 Processed: 13-APR-17 07:58:25
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-103,I,Blank Comments: 1,WG58451,1.0/20uL,:1668C
sample size: 1.000000 conc units: pg/L total toxicity: 27.45 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 1.28e+05 | 3.35 | y | 11:30 | 5.331 | 5 | 0.3241 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 9.74e+04 | 4.37 | n | 13:44 | 3.940 | 4 | 0.3805 | - | y |
| 3 | Unk | CL2-PCB-4 | 1 | 5.24e+04 | 1.54 | y | 13:59 | 3.265 | 3 | 1.3017 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.08e+05 | 1.60 | y | 20:03 | 3.560 | 4 | 0.9276 | - | y |
| 5 | Unk | CL3-PCB-19 | 1 | 1.49e+04 | 0.92 | y | 17:10 | 0.979 | 1 | 0.2079 | - | y |
| 6 | Unk | CL3-PCB-37 | 1 | 2.92e+04 | 1.06 | y | 27:21 | 1.057 | 1 | 0.3028 | - | y |
| 7 | Unk | CL4-PCB-54 | 0 | * | * | n | NotFnd | * | * | 0.2453 | - | n |
| 8 | Unk | CL4-PCB-81 | 0 | * | * | n | NotFnd | * | * | 0.4517 | - | n |
| 9 | Unk | CL4-PCB-77 | 0 | * | * | n | NotFnd | * | * | 0.4893 | - | n |
| 10 | Unk | CL5-PCB-104 | 0 | * | * | n | NotFnd | * | * | 0.1605 | - | n |
| 11 | Unk | CL5-PCB-123 | 0 | * | * | n | NotFnd | * | * | 0.6363 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.10e+04 | 1.11 | n | 37:25 | 1.992 | 2 | 0.6261 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 4.58e+04 | 0.31 | n | 37:57 | 2.316 | 2 | 0.4963 | - | y |
| 14 | Unk | CL5-PCB-105 | 1 | 1.55e+04 | 1.40 | y | 38:39 | 0.945 | 1 | 0.5978 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 4.37e+04 | 0.27 | n | 41:52 | 2.649 | 3 | 0.5985 | - | y |
| 16 | Unk | CL6-PCB-155 | 1 | 8.60e+02 | 1.31 | y | 32:01 | 0.051 | 0 | 0.1777 | - | n |
| 17 | Unk | CL6-PCB-167 | 0 | * | * | n | NotFnd | * | * | 0.3545 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 2.45e+03 | 0.42 | n | 45:02 | 0.214 | 0 | 0.4500 | - | n |
| 19 | Unk | CL6-PCB-169 | 0 | * | * | n | NotFnd | * | * | 0.4582 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.17e+03 | 0.86 | n | 38:00 | 0.140 | 0 | 0.2401 | - | n |
| 21 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.5284 | - | n |
| 22 | Unk | CL8-PCB-202 | 0 | * | * | n | NotFnd | * | * | 0.3582 | - | n |
| 23 | Unk | CL8-PCB-205 | 0 | * | * | n | NotFnd | * | * | 0.6947 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 2.14e+03 | 0.78 | y | 50:33 | 0.298 | 0 | 0.7116 | - | n |
| 25 | Unk | CL9-PCB-206 | 0 | * | * | n | NotFnd | * | * | 0.8696 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 5.40e+03 | 2.26 | n | 57:15 | 0.716 | 1 | 0.4249 | - | y |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 4.38e+07 | 3.24 | y | 11:30 | 730.067 | 0 | 3.3385 | 36.5 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 4.52e+07 | 3.13 | y | 13:44 | 771.439 | 0 | 3.4233 | 38.6 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 3.13e+07 | 1.61 | y | 13:58 | 813.301 | 0 | 2.0196 | 40.7 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 6.54e+07 | 1.59 | y | 20:03 | 1035.885 | 0 | 1.2334 | 51.8 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 3.08e+07 | 1.05 | y | 17:08 | 892.924 | 0 | 3.9061 | 44.6 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 5.46e+07 | 1.07 | y | 27:21 | 1187.823 | 0 | 5.1269 | 59.4 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 4.41e+07 | 0.81 | y | 20:19 | 1172.049 | 0 | 0.3204 | 58.6 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 4.14e+07 | 0.78 | y | 34:24 | 1111.305 | 0 | 0.3427 | 55.6 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 4.04e+07 | 0.79 | y | 34:59 | 1051.763 | 0 | 0.3324 | 52.6 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 3.54e+07 | 1.59 | y | 26:02 | 1389.737 | 0 | 0.1304 | 69.5 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 3.11e+07 | 1.61 | y | 37:04 | 1360.437 | 0 | 2.4946 | 68.0 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 3.04e+07 | 1.59 | y | 37:25 | 1349.544 | 0 | 2.5279 | 67.5 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 3.72e+07 | 1.60 | y | 37:58 | 1701.039 | 0 | 2.6076 | 85.1 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 3.22e+07 | 1.56 | y | 38:38 | 1434.909 | 0 | 2.5408 | 71.7 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 3.21e+07 | 1.58 | y | 41:53 | 1563.323 | 0 | 2.7740 | 78.2 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 3.36e+07 | 1.26 | y | 31:58 | 1608.217 | 0 | 0.1769 | 80.4 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 2.15e+07 | 1.28 | y | 43:50 | 1418.341 | 0 | 0.2876 | 70.9 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 4.26e+07 | 1.27 | y | 45:02 | 2692.166 | 0 | 0.2758 | 67.3 | n |

SVD BY SJH 20-Apr-2017

PV by TD 15-Apr-2017

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 1.85e+07 | 1.27 | y | 48:26 | 1227.699 | 0 | 0.2892 | 61.4 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 3.28e+07 | 1.04 | y | 37:56 | 1735.820 | 0 | 0.2038 | 86.8 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 2.03e+07 | 1.09 | y | 51:05 | 1646.417 | 0 | 0.3625 | 82.3 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 2.03e+07 | 0.94 | y | 43:33 | 1158.894 | 0 | 0.2304 | 57.9 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 1.76e+07 | 0.90 | y | 53:46 | 1526.260 | 0 | 0.4194 | 76.3 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 1.58e+07 | 0.79 | y | 50:33 | 1436.718 | 0 | 0.3658 | 71.8 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 1.23e+07 | 0.80 | y | 55:35 | 1478.169 | 0 | 0.4837 | 73.9 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 1.48e+07 | 1.20 | y | 57:15 | 1413.133 | 0 | 0.3610 | 70.7 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.15e+08 | 1.60 | y | 16:00 | 72.531 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.36e+07 | 0.78 | y | 25:04 | 61.218 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 3.47e+07 | 1.58 | y | 32:12 | 44.824 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 2.40e+07 | 1.24 | y | 40:40 | 34.898 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 1.51e+07 | 0.93 | y | 53:16 | 34.990 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 6.70e+07 | 1.07 | y | 23:10 | 1478.141 | 0 | 5.1977 | 73.9 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 3.34e+07 | 1.57 | y | 35:01 | 1469.551 | 0 | 0.3100 | 73.5 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 1.93e+07 | 1.01 | y | 41:08 | 1632.958 | 0 | 0.3221 | 81.6 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 4.41e+07 | 0.81 | y | 20:19 | 1172.049 | 0 | 0.3204 | 58.6 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 3.28e+07 | 1.04 | y | 37:56 | 1735.820 | 0 | 0.2038 | 86.8 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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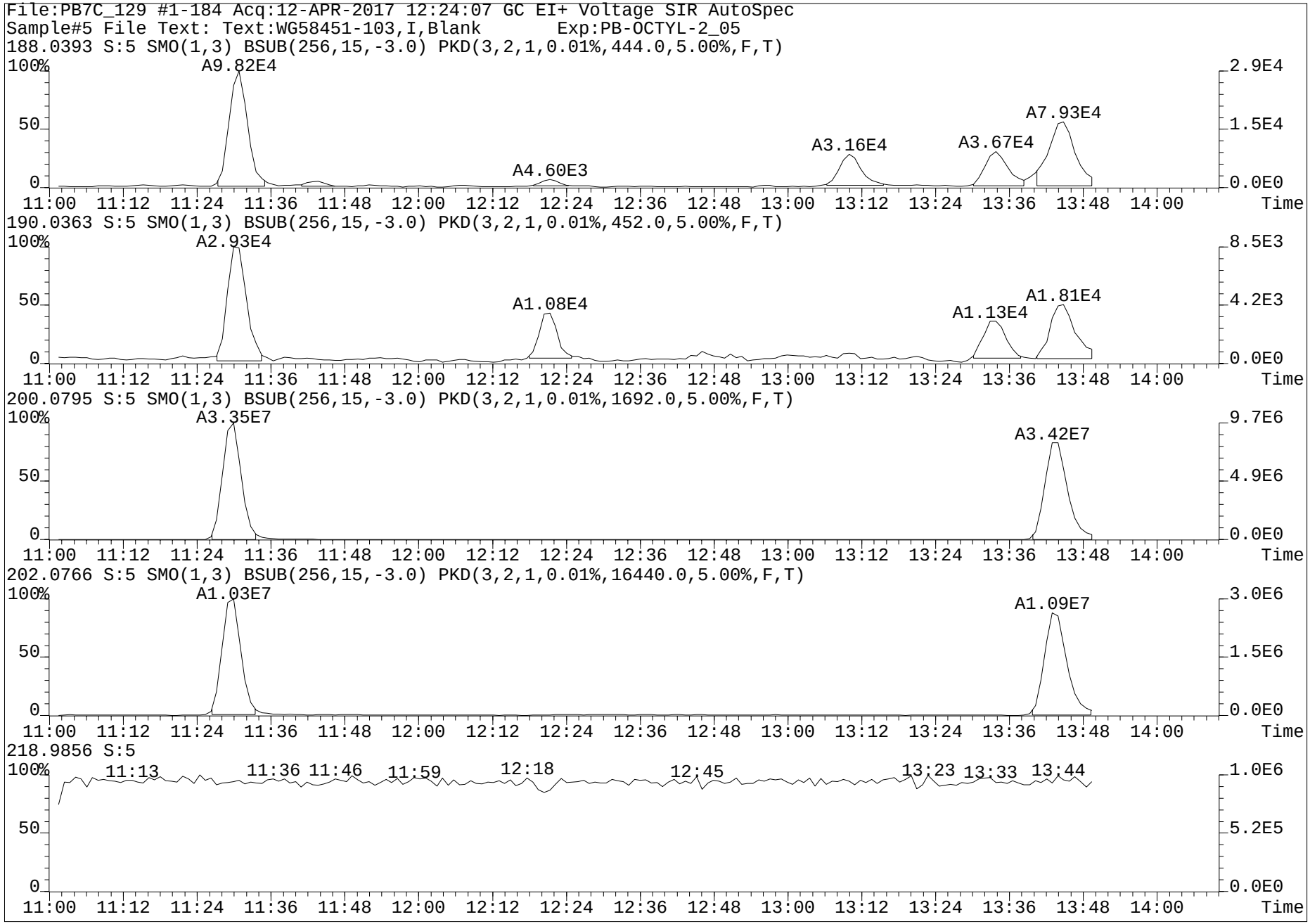
Run #4 Filename PB7C_129 S: 5 I: 1 Acquired: 12-APR-17 12:24:07 Processed: 13-APR-17 08:22:40
Run: pb7c_129-tc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-103,I,Blank Comments: 1,WG58451,1.0/20uL,:1668C
sample size: 1.000000 conc units: pg/L total toxicity: 153.51 F1: 1.0000 F2: 1.0000

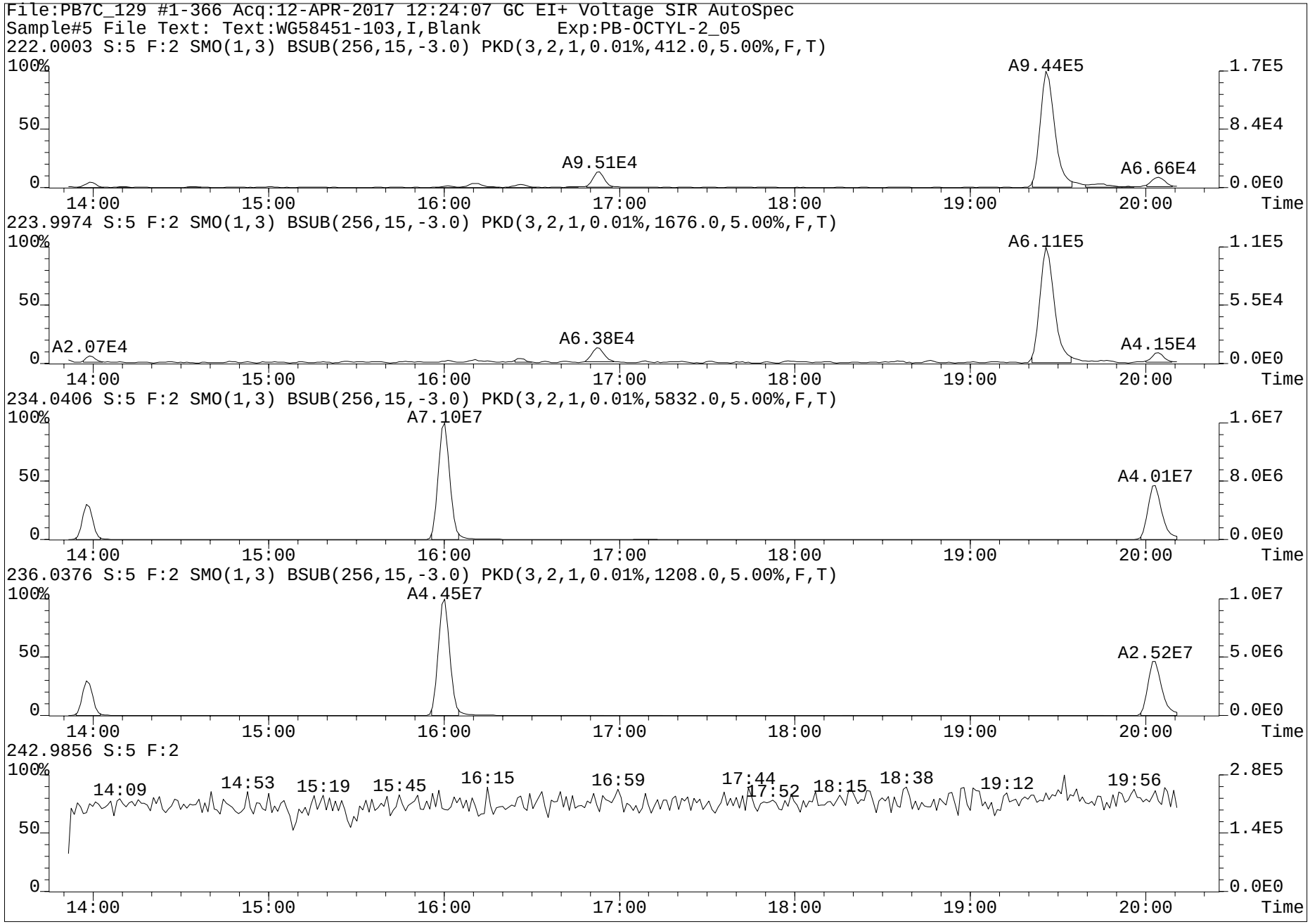
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 4.80e+04 | 3.26 | y | 13:34 | 1.921 | 2 | 0.3435 | - | n |
| 2 | Unk | CL2-PCB-10 | 0 | * | * | n | NotFnd | * | * | 0.8322 | - | n |
| 3 | Unk | CL2-PCB-9 | 0 | * | * | n | NotFnd | * | * | 0.7945 | - | n |
| 4 | Unk | CL2-PCB-7 | 0 | * | * | n | NotFnd | * | * | 0.8104 | - | n |
| 5 | Unk | CL2-PCB-6 | 1 | 3.31e+04 | 1.57 | y | 16:25 | 1.069 | 1 | 0.7910 | - | n |
| 6 | Unk | CL2-PCB-5 | 0 | * | * | n | NotFnd | * | * | 0.8661 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 1.59e+05 | 1.49 | y | 16:52 | 4.850 | 5 | 0.7485 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 0.7993 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 1.56e+06 | 1.55 | y | 19:26 | 50.818 | 51 | 0.8012 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 0 | * | * | n | NotFnd | * | * | 0.8168 | - | n |
| 11 | Unk | CL3-PCB-30/18 | 1 | 1.13e+05 | 1.54 | n | 19:05 | 4.932 | 5 | 0.1563 | - | n |
| 12 | Unk | CL3-PCB-17 | 1 | 4.92e+04 | 0.69 | n | 19:31 | 2.547 | 3 | 0.1849 | - | y |
| 13 | Unk | CL3-PCB-27 | 1 | 1.12e+04 | 4.20 | n | 19:44 | 0.409 | 0 | 0.1306 | - | n |
| 14 | Unk | CL3-PCB-24 | 0 | * | * | n | NotFnd | * | * | 0.1414 | - | n |
| 15 | Unk | CL3-PCB-16 | 1 | 3.81e+04 | 1.13 | y | 19:59 | 2.251 | 2 | 0.2111 | - | n |
| 16 | Unk | CL3-PCB-32 | 1 | 5.55e+04 | 1.52 | n | 20:31 | 1.821 | 2 | 0.2461 | - | y |
| 17 | Unk | CL3-PCB-34 | 0 | * | * | n | NotFnd | * | * | 0.2596 | - | n |
| 18 | Unk | CL3-PCB-23 | 0 | * | * | n | NotFnd | * | * | 0.2752 | - | n |
| 19 | Unk | CL3-PCB-26/29 | 1 | 3.08e+04 | 1.08 | y | 22:20 | 1.036 | 1 | 0.2526 | - | n |
| 20 | Unk | CL3-PCB-25 | 1 | 1.36e+04 | 1.02 | y | 22:34 | 0.405 | 0 | 0.2229 | - | n |
| 21 | Unk | CL3-PCB-31 | 1 | 1.55e+05 | 1.13 | y | 22:54 | 4.989 | 5 | 0.2412 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 1.80e+05 | 1.03 | y | 23:12 | 5.891 | 6 | 0.2456 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 1.02e+05 | 1.02 | y | 23:26 | 3.324 | 3 | 0.2450 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 5.90e+04 | 1.12 | y | 23:51 | 2.114 | 2 | 0.2689 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 0.2427 | - | n |
| 26 | Unk | CL3-PCB-39 | 0 | * | * | n | NotFnd | * | * | 0.2275 | - | n |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 0.2423 | - | n |
| 28 | Unk | CL3-PCB-35 | 0 | * | * | n | NotFnd | * | * | 0.2548 | - | n |
| 29 | Unk | CL4-PCB-50/53 | 1 | 1.39e+04 | 1.02 | n | 22:33 | 0.750 | 1 | 0.3728 | - | n |
| 30 | Unk | CL4-PCB-45/51 | 1 | 7.84e+04 | 0.77 | y | 23:21 | 4.328 | 4 | 0.3823 | - | n |
| 31 | Unk | CL4-PCB-46 | 1 | 3.19e+03 | 0.38 | n | 23:33 | 0.202 | 0 | 0.4381 | - | y |
| 32 | Unk | CL4-PCB-52 | 1 | 1.13e+05 | 0.70 | y | 25:04 | 5.923 | 6 | 0.3631 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.2858 | - | n |
| 34 | Unk | CL4-PCB-43 | 0 | * | * | n | NotFnd | * | * | 0.5115 | - | n |
| 35 | Unk | CL4-PCB-69/49 | 1 | 3.86e+04 | 0.70 | y | 25:36 | 1.866 | 2 | 0.3345 | - | n |
| 36 | Unk | CL4-PCB-48 | 1 | 1.44e+04 | 0.56 | n | 25:52 | 0.747 | 1 | 0.3592 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 2.84e+05 | 0.68 | y | 26:09 | 13.998 | 14 | 0.3415 | - | n |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 6.55e+03 | 0.50 | n | 26:27 | 0.269 | 0 | 0.2844 | - | n |
| 39 | Unk | CL4-PCB-42 | 1 | 1.26e+04 | 1.55 | n | 26:40 | 0.762 | 1 | 0.4181 | - | y |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 3.07e+04 | 0.66 | y | 27:09 | 1.757 | 2 | 0.3964 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 3.01e+04 | 1.01 | n | 27:24 | 1.268 | 1 | 0.2920 | - | n |
| 42 | Unk | CL4-PCB-72 | 0 | * | * | n | NotFnd | * | * | 0.3488 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 4.41e+04 | 0.95 | n | 28:36 | 1.694 | 2 | 0.3421 | - | y |
| 44 | Unk | CL4-PCB-57 | 0 | * | * | n | NotFnd | * | * | 0.3453 | - | n |

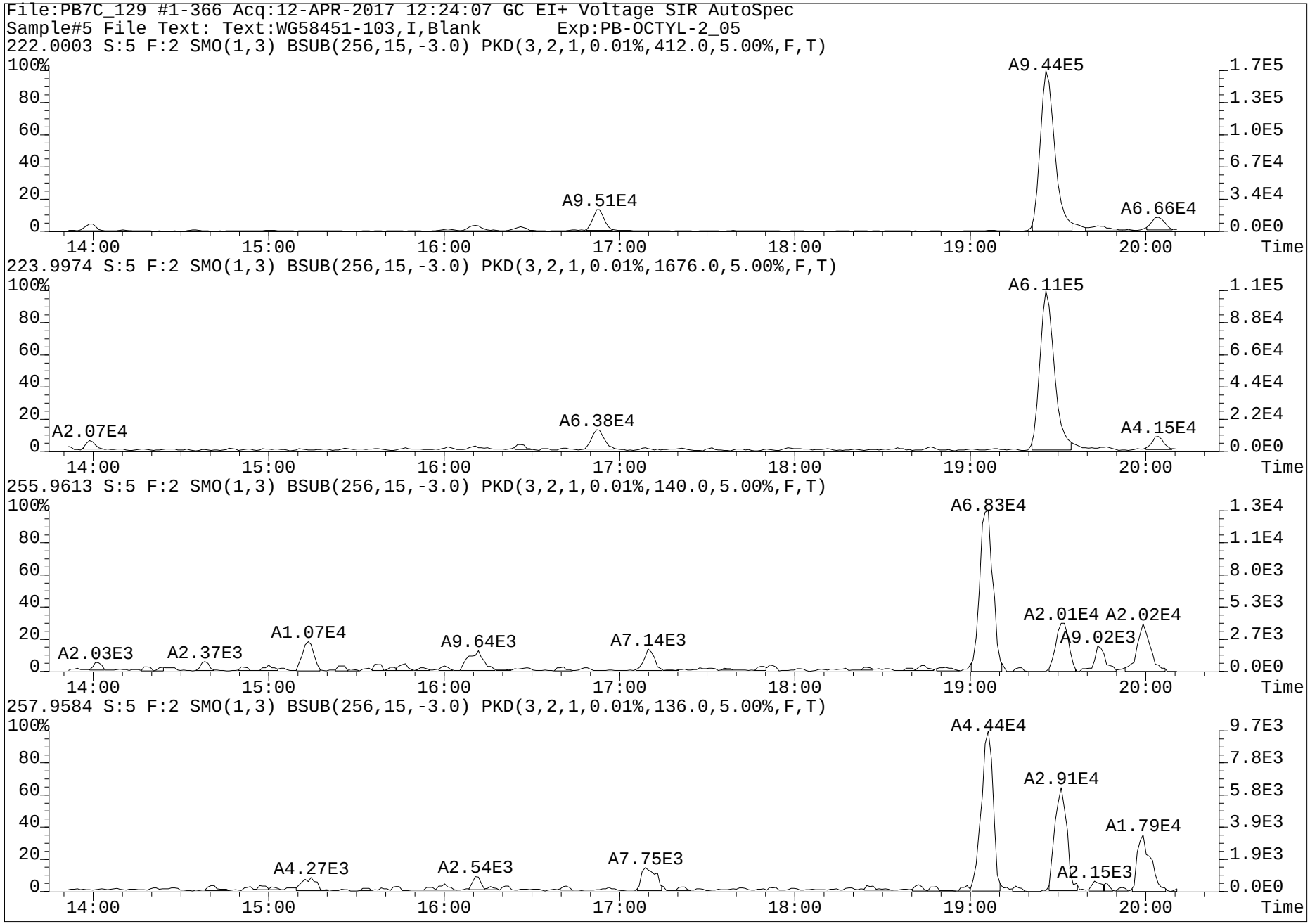
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 0 | * | * | n | NotFnd | * | * | 0.3792 | - | n |
| 46 | Unk | CL4-PCB-67 | 0 | * | * | n | NotFnd | * | * | 0.3097 | - | n |
| 47 | Unk | CL4-PCB-63 | 0 | * | * | n | NotFnd | * | * | 0.3585 | - | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 6.36e+04 | 0.60 | n | 30:06 | 2.654 | 3 | 0.3720 | - | y |
| 49 | Unk | CL4-PCB-66 | 1 | 3.16e+04 | 1.00 | n | 30:25 | 1.295 | 1 | 0.3651 | - | y |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 0.4007 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 1.56e+04 | 0.54 | n | 31:07 | 0.704 | 1 | 0.4028 | - | y |
| 52 | Unk | CL4-PCB-60 | 1 | 1.03e+04 | 0.24 | n | 31:19 | 0.463 | 0 | 0.4010 | - | n |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 0.3586 | - | n |
| 54 | Unk | CL4-PCB-79 | 0 | * | * | n | NotFnd | * | * | 0.3339 | - | n |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 0.4011 | - | n |
| 56 | Unk | CL5-PCB-96 | 0 | * | * | n | NotFnd | * | * | 0.1764 | - | n |
| 57 | Unk | CL5-PCB-103 | 0 | * | * | n | NotFnd | * | * | 0.3847 | - | n |
| 58 | Unk | CL5-PCB-94 | 0 | * | * | n | NotFnd | * | * | 0.4788 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 3.99e+04 | 1.65 | y | 29:08 | 2.883 | 3 | 0.4320 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 1 | 9.69e+03 | 1.21 | n | 30:03 | 0.736 | 1 | 0.4541 | - | n |
| 61 | Unk | CL5-PCB-84 | 1 | 1.10e+04 | 1.59 | y | 30:16 | 0.945 | 1 | 0.5111 | - | n |
| 62 | Unk | CL5-PCB-89 | 0 | * | * | n | NotFnd | * | * | 0.4767 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 0.3478 | - | n |
| 64 | Unk | CL5-PCB-92 | 1 | 6.18e+03 | 0.71 | n | 31:38 | 0.469 | 0 | 0.4540 | - | n |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 3.48e+04 | 2.42 | n | 32:14 | 2.332 | 2 | 0.4004 | - | n |
| 66 | Unk | CL5-PCB-83/99 | 1 | 1.76e+04 | 2.06 | n | 32:50 | 1.412 | 1 | 0.4805 | - | n |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 0.3205 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 3.81e+04 | 2.15 | n | 33:23 | 2.566 | 3 | 0.4029 | - | y |
| 69 | Unk | CL5-PCB-117/116/85 | 0 | * | * | n | NotFnd | * | * | 0.3896 | - | y |
| 70 | Unk | CL5-PCB-110/115 | 1 | 4.95e+04 | 0.89 | n | 34:15 | 2.849 | 3 | 0.3436 | - | y |
| 71 | Unk | CL5-PCB-82 | 0 | * | * | n | NotFnd | * | * | 0.5150 | - | n |
| 72 | Unk | CL5-PCB-111 | 0 | * | * | n | NotFnd | * | * | 0.3371 | - | n |
| 73 | Unk | CL5-PCB-120 | 0 | * | * | n | NotFnd | * | * | 0.3102 | - | n |
| 74 | Unk | CL5-PCB-108/124 | 0 | * | * | n | NotFnd | * | * | 0.5412 | - | n |
| 75 | Unk | CL5-PCB-107 | 0 | * | * | n | NotFnd | * | * | 0.5033 | - | n |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 0.4782 | - | n |
| 77 | Unk | CL5-PCB-122 | 0 | * | * | n | NotFnd | * | * | 0.5793 | - | n |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 0.5739 | - | n |
| 79 | Unk | CL6-PCB-152 | 0 | * | * | n | NotFnd | * | * | 0.2242 | - | n |
| 80 | Unk | CL6-PCB-150 | 0 | * | * | n | NotFnd | * | * | 0.2326 | - | n |
| 81 | Unk | CL6-PCB-136 | 1 | 2.41e+03 | 0.97 | n | 32:41 | 0.161 | 0 | 0.2284 | - | y |
| 82 | Unk | CL6-PCB-145 | 0 | * | * | n | NotFnd | * | * | 0.2431 | - | n |
| 83 | Unk | CL6-PCB-148 | 0 | * | * | n | NotFnd | * | * | 0.3113 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 9.57e+03 | 1.17 | y | 35:16 | 0.801 | 1 | 0.2856 | - | y |
| 85 | Unk | CL6-PCB-144 | 0 | * | * | n | NotFnd | * | * | 0.3013 | - | n |
| 86 | Unk | CL6-PCB-147/149 | 1 | 1.66e+04 | 0.65 | n | 36:13 | 1.478 | 1 | 0.3915 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 0 | * | * | n | NotFnd | * | * | 0.4534 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 0 | * | * | n | NotFnd | * | * | 0.4036 | - | n |
| 89 | Unk | CL6-PCB-131 | 0 | * | * | n | NotFnd | * | * | 0.4651 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 0.4494 | - | n |
| 91 | Unk | CL6-PCB-132 | 1 | 5.43e+03 | 1.93 | n | 37:32 | 0.599 | 1 | 0.4848 | - | n |
| 92 | Unk | CL6-PCB-133 | 0 | * | * | n | NotFnd | * | * | 0.4530 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 0.3643 | - | n |
| 94 | Unk | CL6-PCB-146 | 0 | * | * | n | NotFnd | * | * | 0.3457 | - | n |
| 95 | Unk | CL6-PCB-161 | 1 | 1.77e+03 | 1.32 | y | 38:58 | 0.120 | 0 | 0.2994 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 1.92e+04 | 1.59 | n | 39:24 | 1.560 | 2 | 0.3575 | - | n |
| 97 | Unk | CL6-PCB-141 | 0 | * | * | n | NotFnd | * | * | 0.4284 | - | n |

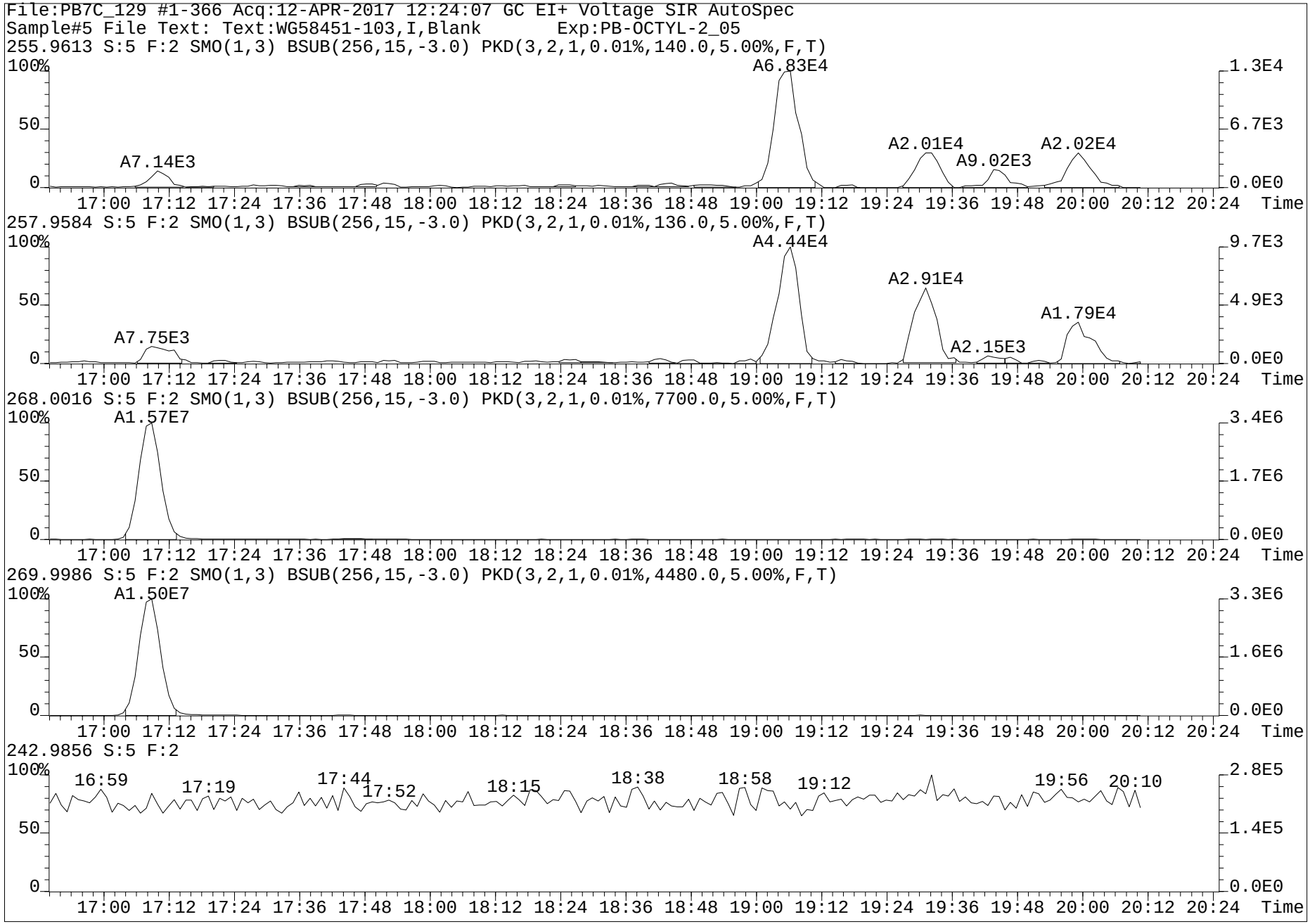
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 1 | 2.74e+03 | 1.20 | y | 39:58 | 0.309 | 0 | 0.4949 | - | n |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 0.4765 | - | n |
| 100 | Unk | CL6-PCB-164 | 0 | * | * | n | NotFnd | * | * | 0.3231 | - | n |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 3.24e+04 | 0.96 | n | 40:42 | 2.931 | 3 | 0.3971 | - | n |
| 102 | Unk | CL6-PCB-158 | 0 | * | * | n | NotFnd | * | * | 0.3069 | - | n |
| 103 | Unk | CL6-PCB-128/166 | 0 | * | * | n | NotFnd | * | * | 0.4071 | - | n |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 0.3292 | - | n |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 0.3265 | - | n |
| 106 | Unk | CL7-PCB-179 | 1 | 3.97e+03 | 1.55 | n | 38:18 | 0.298 | 0 | 0.2936 | - | n |
| 107 | Unk | CL7-PCB-184 | 1 | 1.26e+03 | 1.45 | n | 38:52 | 0.090 | 0 | 0.2776 | - | n |
| 108 | Unk | CL7-PCB-176 | 0 | * | * | n | NotFnd | * | * | 0.3027 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.3228 | - | n |
| 110 | Unk | CL7-PCB-178 | 0 | * | * | n | NotFnd | * | * | 0.4269 | - | n |
| 111 | Unk | CL7-PCB-175 | 0 | * | * | n | NotFnd | * | * | 0.4181 | - | n |
| 112 | Unk | CL7-PCB-187 | 0 | * | * | n | NotFnd | * | * | 0.3980 | - | n |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.3483 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 1 | 3.53e+03 | 0.55 | n | 42:44 | 0.364 | 0 | 0.4027 | - | y |
| 115 | Unk | CL7-PCB-174 | 1 | 1.82e+03 | 2.85 | n | 43:00 | 0.191 | 0 | 0.4108 | - | n |
| 116 | Unk | CL7-PCB-177 | 0 | * | * | n | NotFnd | * | * | 0.3773 | - | n |
| 117 | Unk | CL7-PCB-181 | 0 | * | * | n | NotFnd | * | * | 0.4253 | - | n |
| 118 | Unk | CL7-PCB-171/173 | 0 | * | * | n | NotFnd | * | * | 0.4510 | - | n |
| 119 | Unk | CL7-PCB-172 | 0 | * | * | n | NotFnd | * | * | 0.4249 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.3629 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 0 | * | * | n | NotFnd | * | * | 0.4725 | - | n |
| 122 | Unk | CL7-PCB-191 | 0 | * | * | n | NotFnd | * | * | 0.3347 | - | n |
| 123 | Unk | CL7-PCB-170 | 0 | * | * | n | NotFnd | * | * | 0.5120 | - | n |
| 124 | Unk | CL7-PCB-190 | 0 | * | * | n | NotFnd | * | * | 0.3409 | - | n |
| 125 | Unk | CL8-PCB-201 | 0 | * | * | n | NotFnd | * | * | 0.3213 | - | y |
| 126 | Unk | CL8-PCB-204 | 0 | * | * | n | NotFnd | * | * | 0.3323 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 1 | 3.43e+04 | 0.10 | n | 45:34 | 2.928 | 3 | 0.2730 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 0 | * | * | n | NotFnd | * | * | 0.4705 | - | n |
| 129 | Unk | CL8-PCB-196 | 0 | * | * | n | NotFnd | * | * | 0.4164 | - | y |
| 130 | Unk | CL8-PCB-203 | 0 | * | * | n | NotFnd | * | * | 0.4151 | - | n |
| 131 | Unk | CL8-PCB-195 | 1 | 3.42e+03 | 3.56 | n | 50:53 | 0.432 | 0 | 0.7149 | - | n |
| 132 | Unk | CL8-PCB-194 | 0 | * | * | n | NotFnd | * | * | 0.7645 | - | n |
| 133 | Unk | CL9-PCB-207 | 0 | * | * | n | NotFnd | * | * | 0.6342 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 4.38e+07 | 3.24 | y | 11:30 | 788.236 | 0 | 3.6045 | 39.4 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 4.52e+07 | 3.13 | y | 13:44 | 843.187 | 0 | 3.7417 | 42.2 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 3.13e+07 | 1.61 | y | 13:58 | 885.243 | 0 | 2.1983 | 44.3 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 6.54e+07 | 1.59 | y | 20:03 | 1120.059 | 0 | 1.3337 | 56.0 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 3.08e+07 | 1.05 | y | 17:08 | 1040.196 | 0 | 4.5504 | 52.0 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 5.46e+07 | 1.07 | y | 27:21 | 1216.774 | 0 | 5.2519 | 60.8 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 4.41e+07 | 0.81 | y | 20:19 | 1217.429 | 0 | 0.3328 | 60.9 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 4.14e+07 | 0.78 | y | 34:24 | 1208.925 | 0 | 0.3728 | 60.4 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 4.04e+07 | 0.79 | y | 34:59 | 1179.166 | 0 | 0.3726 | 59.0 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 3.54e+07 | 1.59 | y | 26:02 | 1462.281 | 0 | 0.1372 | 73.1 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 3.11e+07 | 1.61 | y | 37:04 | 1385.841 | 0 | 2.5412 | 69.3 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 3.04e+07 | 1.59 | y | 37:25 | 1386.798 | 0 | 2.5977 | 69.3 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 3.72e+07 | 1.60 | y | 37:58 | 1731.299 | 0 | 2.6540 | 86.6 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 3.22e+07 | 1.56 | y | 38:38 | 1485.310 | 0 | 2.6301 | 74.3 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 3.21e+07 | 1.58 | y | 41:53 | 1702.954 | 0 | 3.0218 | 85.1 | n |

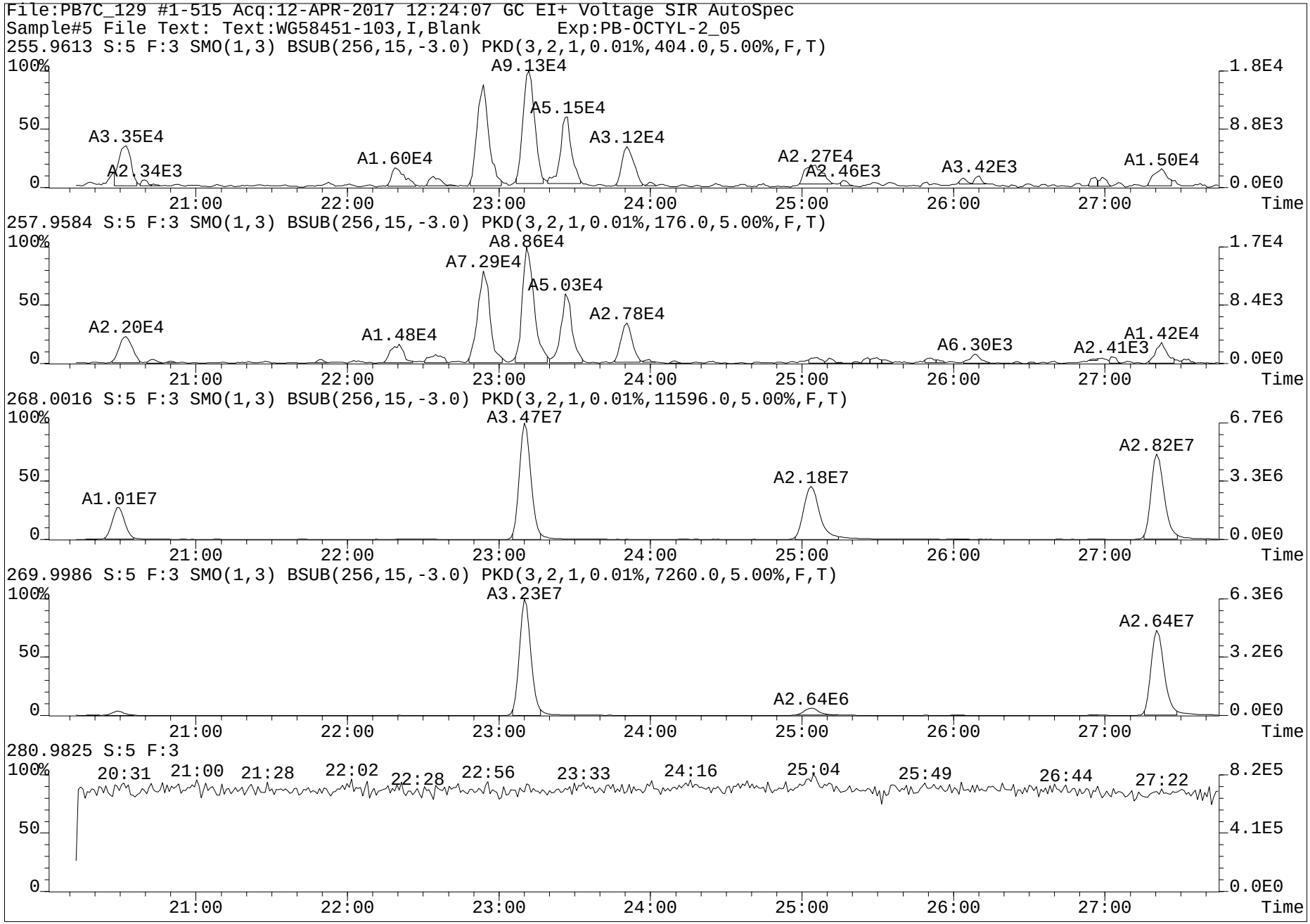
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 3.36e+07 | 1.26 | y | 31:58 | 1814.698 | 0 | 0.1996 | 90.7 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 2.15e+07 | 1.28 | y | 43:50 | 1533.359 | 0 | 0.3110 | 76.7 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 4.26e+07 | 1.27 | y | 45:02 | 3059.901 | 0 | 0.3135 | 76.5 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 1.85e+07 | 1.27 | y | 48:26 | 1344.350 | 0 | 0.3167 | 67.2 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 3.28e+07 | 1.04 | y | 37:56 | 2309.236 | 0 | 0.2712 | 115.5 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 1.75e+07 | 1.05 | y | 46:28 | 1811.577 | 0 | 0.3992 | 90.6 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 1.40e+07 | 1.07 | y | 47:47 | 1783.731 | 0 | 0.4899 | 89.2 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 2.03e+07 | 0.94 | y | 43:33 | 1669.103 | 0 | 0.3319 | 83.5 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 1.76e+07 | 0.90 | y | 53:46 | 1641.256 | 0 | 0.4510 | 82.1 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 1.58e+07 | 0.79 | y | 50:33 | 1530.880 | 0 | 0.3898 | 76.5 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 1.23e+07 | 0.80 | y | 55:35 | 1641.228 | 0 | 0.5371 | 82.1 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.15e+08 | 1.60 | y | 16:00 | 103.891 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 5.36e+07 | 0.78 | y | 25:04 | 92.272 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 3.47e+07 | 1.58 | y | 32:12 | 73.842 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 2.40e+07 | 1.24 | y | 40:40 | 61.013 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 1.51e+07 | 0.93 | y | 53:16 | 52.120 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 6.70e+07 | 1.07 | y | 23:10 | 1418.473 | 0 | 4.9878 | 70.9 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 3.34e+07 | 1.57 | y | 35:01 | 1542.838 | 0 | 0.3255 | 77.1 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 1.93e+07 | 1.01 | y | 41:08 | 1816.916 | 0 | 0.3584 | 90.8 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 4.41e+07 | 0.81 | y | 20:19 | 1217.429 | 0 | 0.3328 | 60.9 | n |
| 169 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.5156 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 2.03e+07 | 1.09 | y | 51:05 | 1555.598 | 0 | 0.3425 | 77.8 | n |
| 171 | Unk | CL10-PCB-209 | 1 | 5.40e+03 | 2.26 | n | 57:15 | 0.699 | 0 | 0.4149 | - | y |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 1.48e+07 | 1.20 | y | 57:15 | 1620.294 | 0 | 0.4139 | 81.0 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

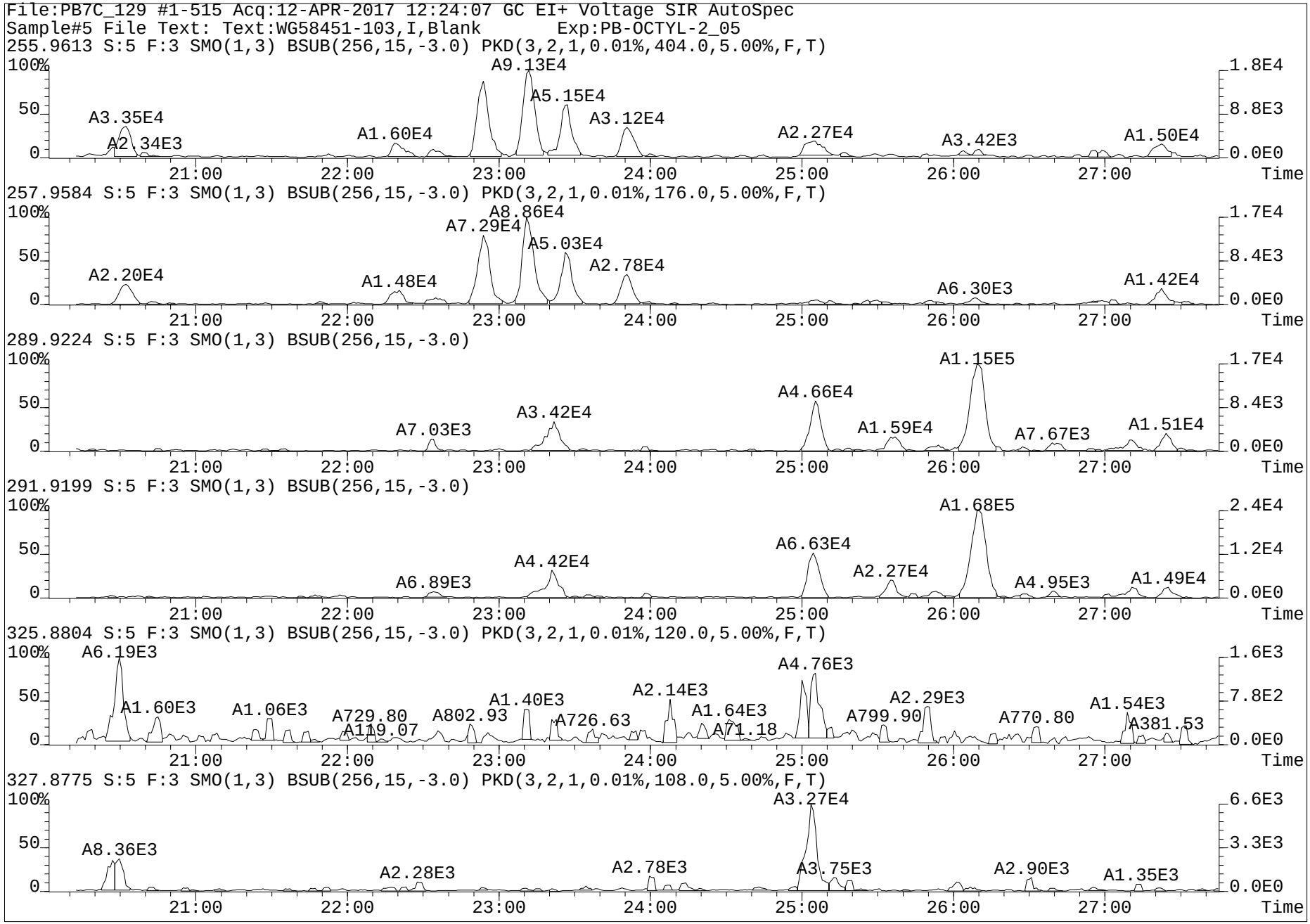

File:PB7C_129 #1-184 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
188.0393 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,444.0,5.00%,F,T)
A9.82E4
A4.60E3
A3.16E4
A3.67E4
A7.93E4
190.0363 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,452.0,5.00%,F,T)
A2.93E4
A1.08E4
A1.13E4
A1.81E4
200.0795 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1692.0,5.00%,F,T)
A3.35E7
A3.42E7
202.0766 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16440.0,5.00%,F,T)
A1.03E7
A1.09E7
218.9856 S:5
11:13
11:36
11:46
11:59
12:18
12:45
13:23
13:33
13:44
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

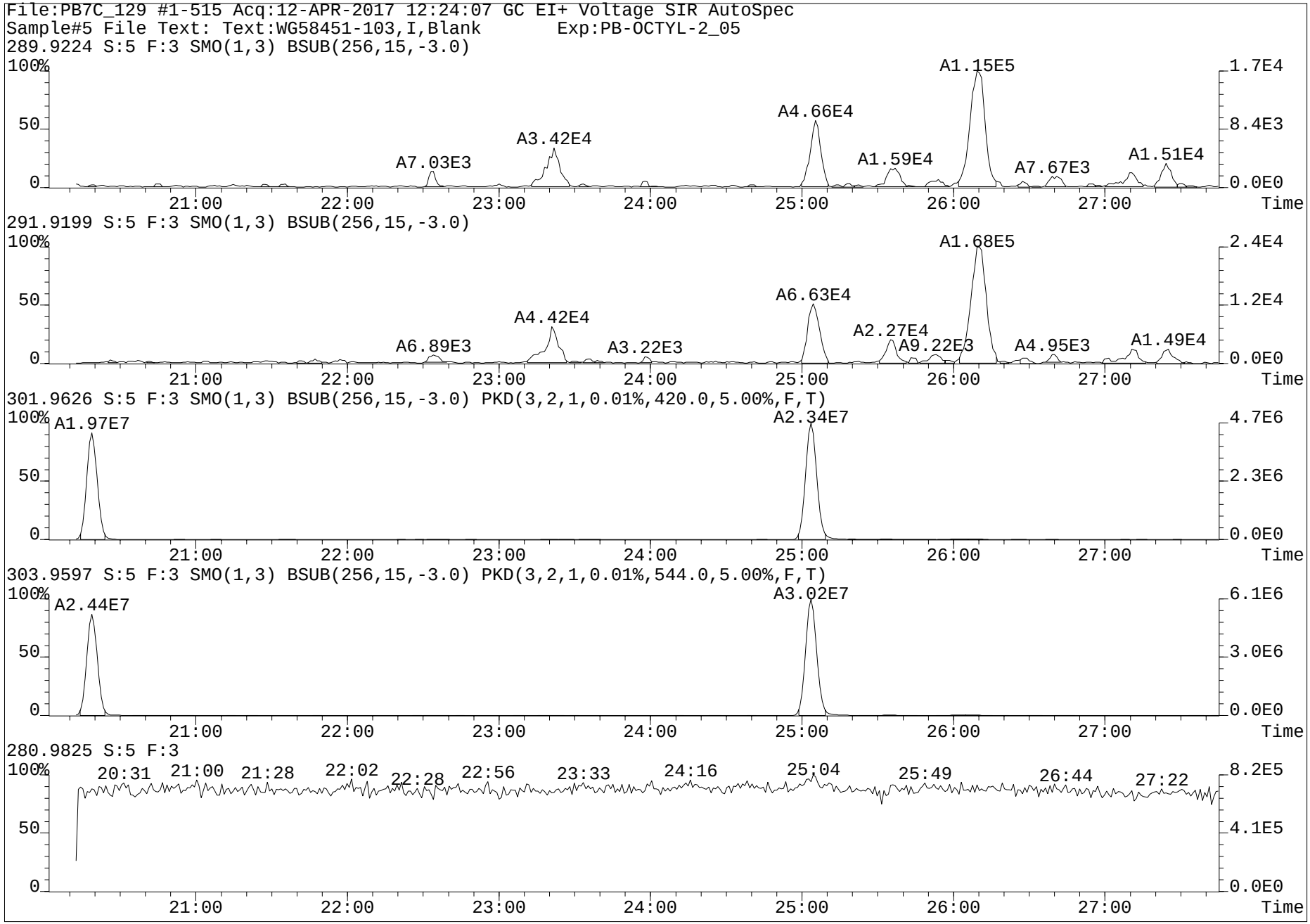

File:PB7C_129 #1-366 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,412.0,5.00%,F,T)
A9.44E5
A9.51E4
A6.66E4
223.9974 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1676.0,5.00%,F,T)
A6.11E5
A2.07E4
A6.38E4
A4.15E4
234.0406 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5832.0,5.00%,F,T)
A7.10E7
A4.01E7
236.0376 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1208.0,5.00%,F,T)
A4.45E7
A2.52E7
242.9856 S:5 F:2
14:09
14:53
15:19
15:45
16:15
16:59
17:44
17:52
18:15
18:38
19:12
19:56
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
1.7E5
8.4E4
0.0E0
1.1E5
5.5E4
1.6E7
8.0E6
1.0E7
5.0E6
2.8E5
1.4E5

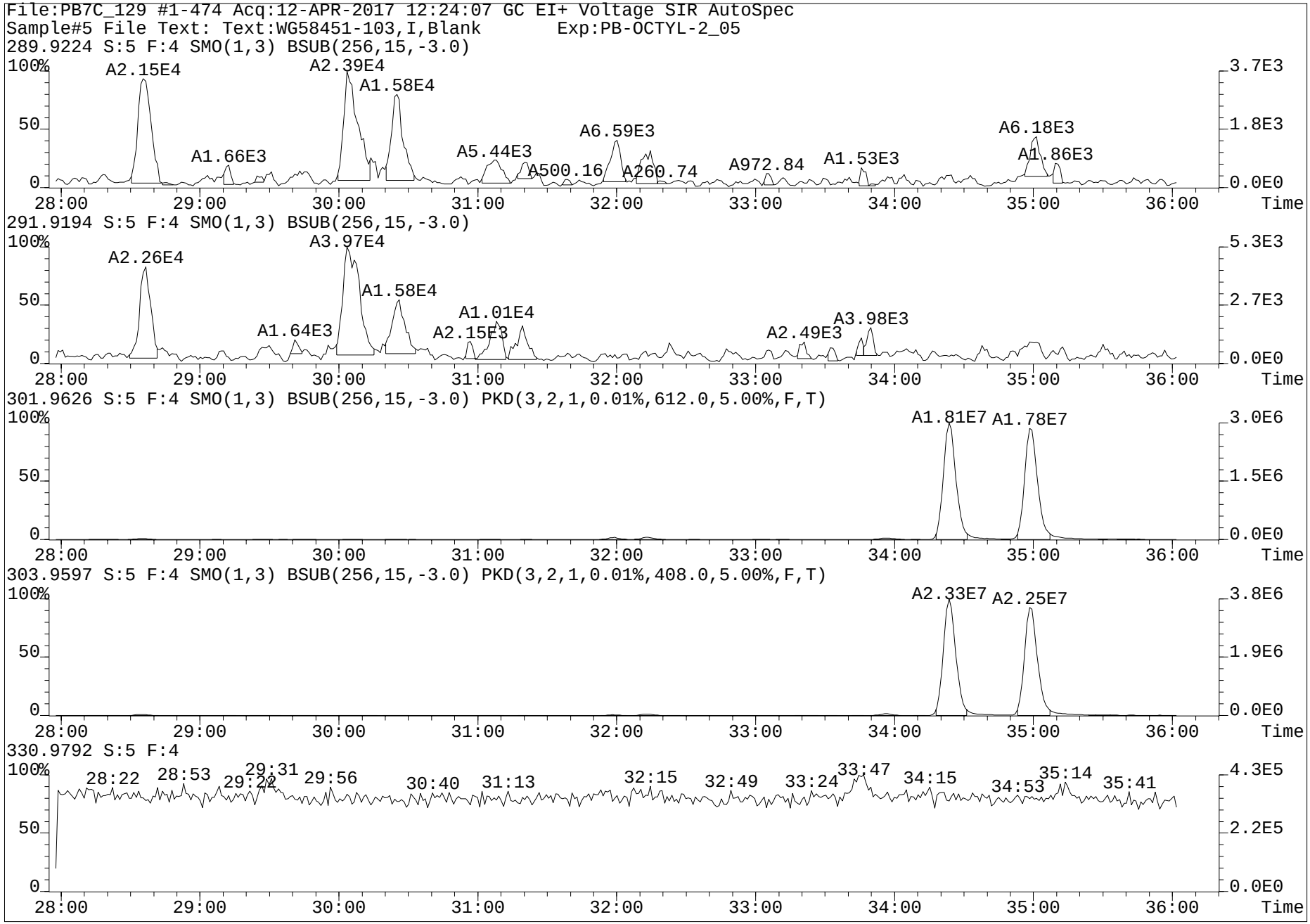

File:PB7C_129 #1-366 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,412.0,5.00%,F,T)
A9.44E5
A9.51E4
A6.66E4
223.9974 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1676.0,5.00%,F,T)
A6.11E5
A2.07E4
A6.38E4
A4.15E4
255.9613 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A6.83E4
A2.03E3
A2.37E3
A1.07E4
A9.64E3
A7.14E3
A2.01E4
A2.02E4
A9.02E3
257.9584 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A4.44E4
A2.91E4
A1.79E4
A4.27E3
A2.54E3
A7.75E3
A2.15E3
100%
80
60
40
20
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
1.7E5
1.3E5
1.0E5
6.7E4
3.4E4
0.0E0
1.1E5
8.8E4
6.6E4
4.4E4
2.2E4
1.3E4
1.1E4
8.0E3
5.3E3
2.7E3
9.7E3
7.8E3
5.8E3
3.9E3
1.9E3

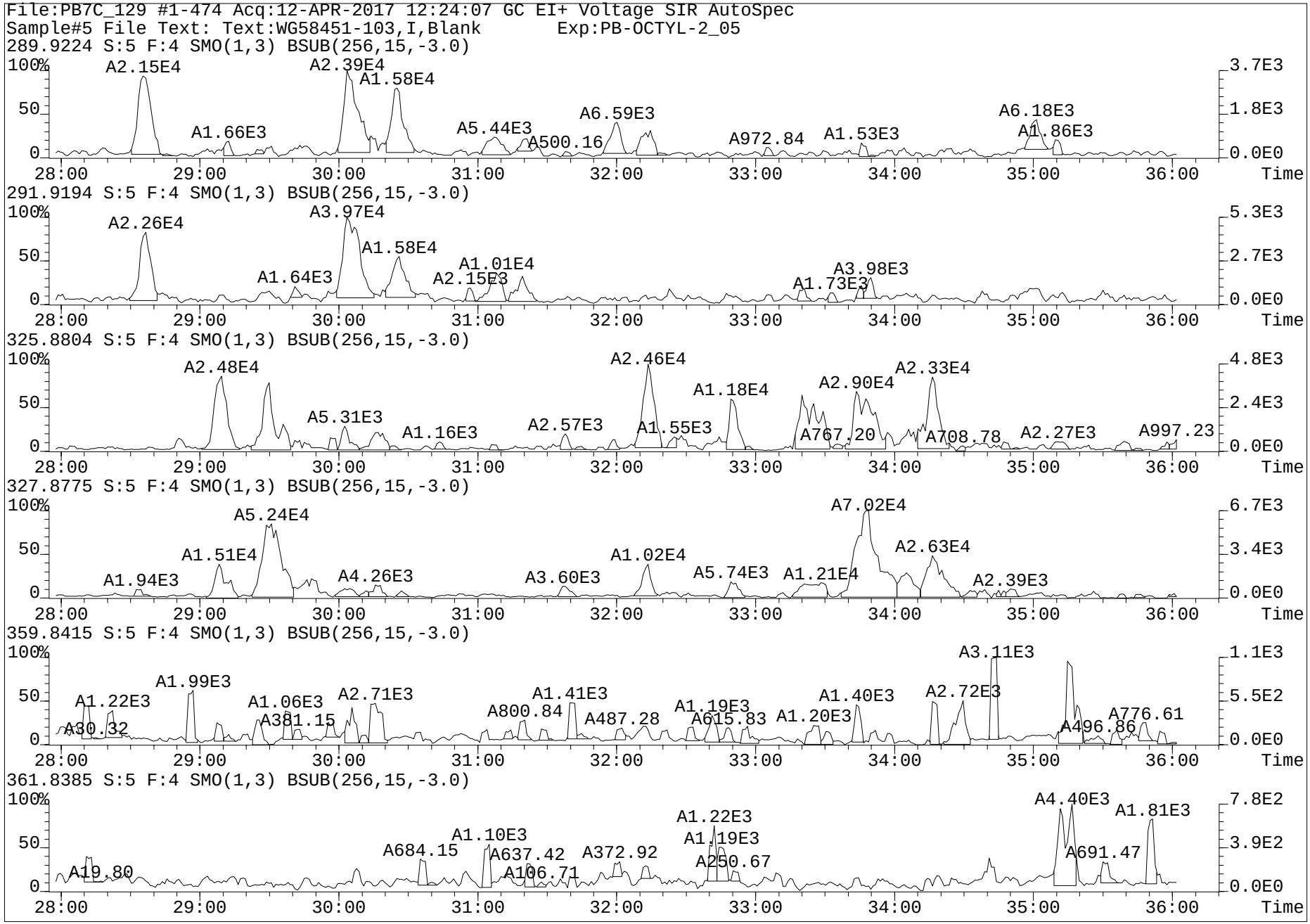

File:PB7C_129 #1-366 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A6.83E4
A2.01E4
A2.02E4
A9.02E3
A7.14E3
257.9584 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A4.44E4
A2.91E4
A1.79E4
A2.15E3
A7.75E3
268.0016 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,7700.0,5.00%,F,T)
A1.57E7
269.9986 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4480.0,5.00%,F,T)
A1.50E7
242.9856 S:5 F:2
16:59
17:19
17:44
17:52
18:15
18:38
18:58
19:12
19:56
20:10
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
1.3E4
6.7E3
0.0E0
9.7E3
4.9E3
3.4E6
1.7E6
3.3E6
1.6E6
2.8E5
1.4E5

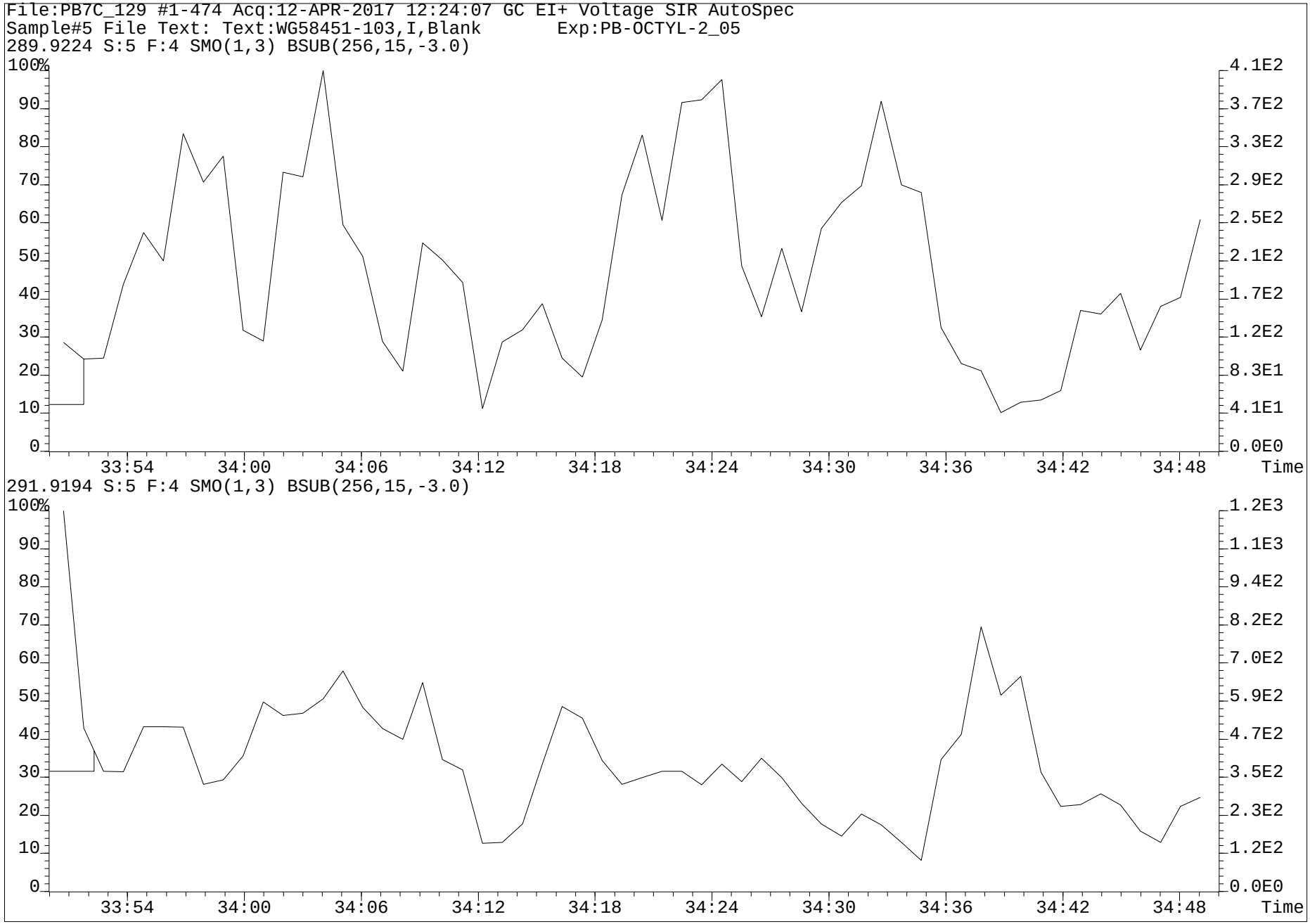

File:PB7C_129 #1-515 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,404.0,5.00%,F,T)
A9.13E4
A5.15E4
A3.35E4
A3.12E4
A1.60E4
A2.27E4
A2.34E3
A2.46E3
A3.42E3
A1.50E4
257.9584 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A8.86E4
A7.29E4
A5.03E4
A2.78E4
A2.20E4
A1.48E4
A6.30E3
A2.41E3
A1.42E4
268.0016 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11596.0,5.00%,F,T)
A3.47E7
A2.82E7
A2.18E7
A1.01E7
269.9986 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,7260.0,5.00%,F,T)
A3.23E7
A2.64E7
A2.64E6
280.9825 S:5 F:3
20:31 21:00 21:28 22:02 22:28 22:56 23:33 24:16 25:04 25:49 26:44 27:22
100%
50
0
1.8E4
8.8E3
0.0E0
1.7E4
8.4E3
6.7E6
3.3E6
6.3E6
3.2E6
8.2E5
4.1E5
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

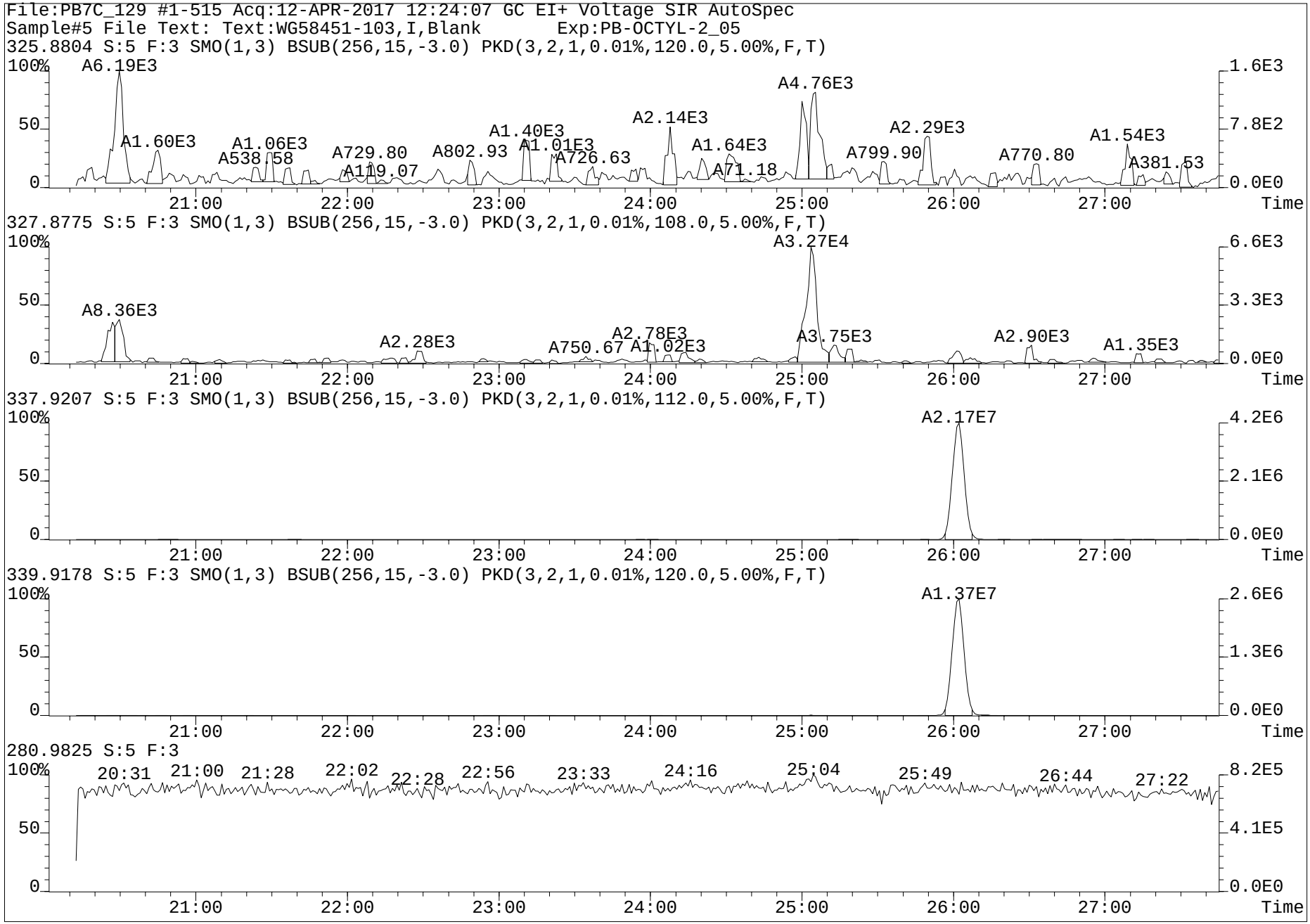

File:PB7C_129 #1-515 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,404.0,5.00%,F,T)
A9.13E4
A5.15E4
A3.35E4
A3.12E4
A2.34E3
A1.60E4
A2.27E4
A3.42E3
A1.50E4
257.9584 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A8.86E4
A7.29E4
A5.03E4
A2.78E4
A2.20E4
A1.48E4
A6.30E3
A1.42E4
289.9224 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.15E5
A4.66E4
A3.42E4
A7.03E3
A1.59E4
A7.67E3
A1.51E4
291.9199 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.68E5
A6.63E4
A4.42E4
A2.27E4
A6.89E3
A4.95E3
A1.49E4
325.8804 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A6.19E3
A4.76E3
A2.14E3
A1.40E3
A2.29E3
A1.60E3
A1.06E3
A729.80
A802.93
A1.64E3
A1.54E3
A119.07
A726.63
A71.18
A799.90
A770.80
A381.53
327.8775 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A3.27E4
A8.36E3
A2.28E3
A2.78E3
A3.75E3
A2.90E3
A1.35E3
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

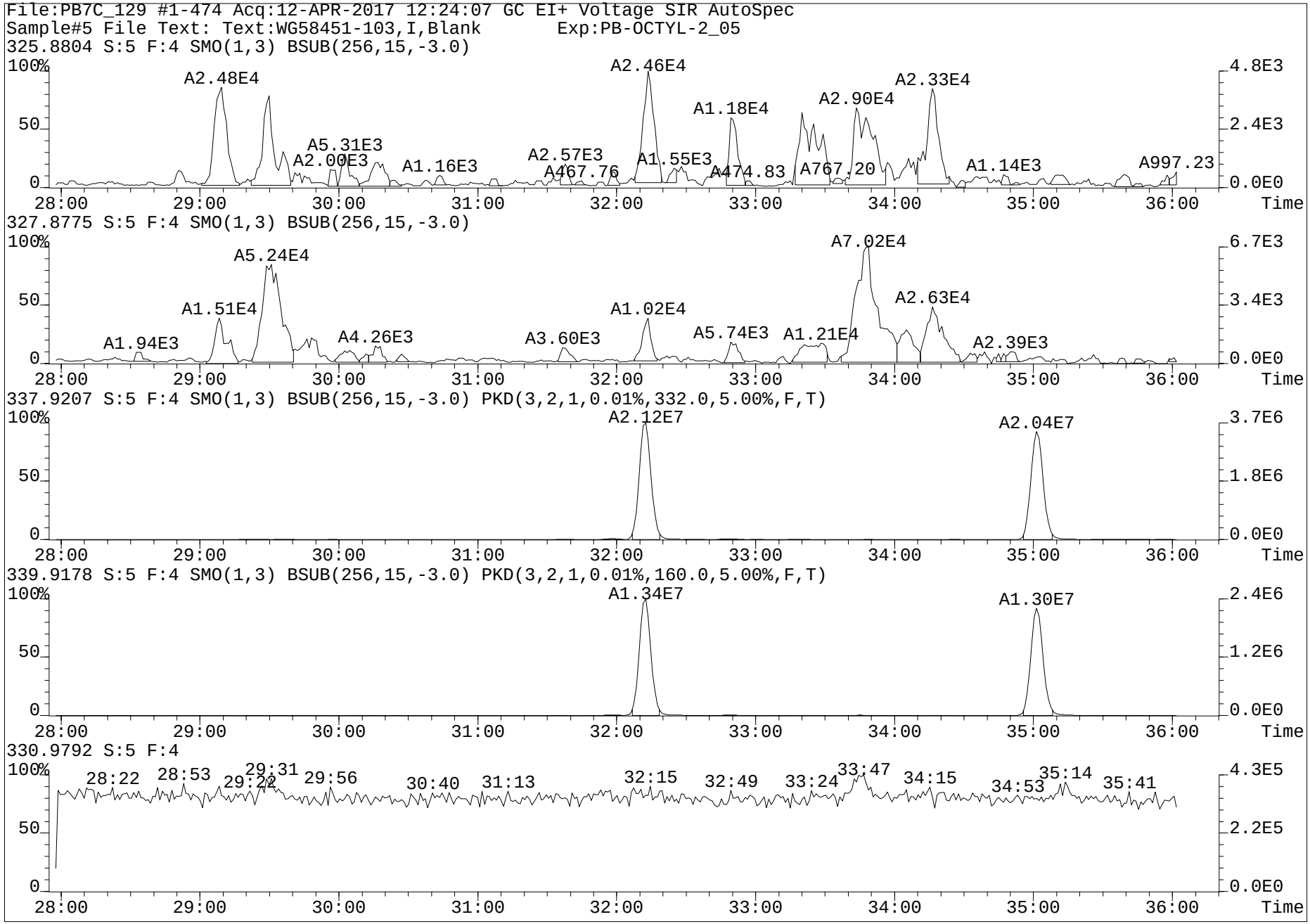

File:PB7C_129 #1-515 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0)
A7.03E3
A3.42E4
A4.66E4
A1.59E4
A1.15E5
A7.67E3
A1.51E4
291.9199 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0)
A6.89E3
A4.42E4
A3.22E3
A6.63E4
A2.27E4
A9.22E3
A1.68E5
A4.95E3
A1.49E4
301.9626 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,420.0,5.00%,F,T)
A1.97E7
A2.34E7
303.9597 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,544.0,5.00%,F,T)
A2.44E7
A3.02E7
280.9825 S:5 F:3
20:31
21:00
21:28
22:02
22:28
22:56
23:33
24:16
25:04
25:49
26:44
27:22
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.7E4
8.4E3
0.0E0
2.4E4
1.2E4
4.7E6
2.3E6
6.1E6
3.0E6
8.2E5
4.1E5

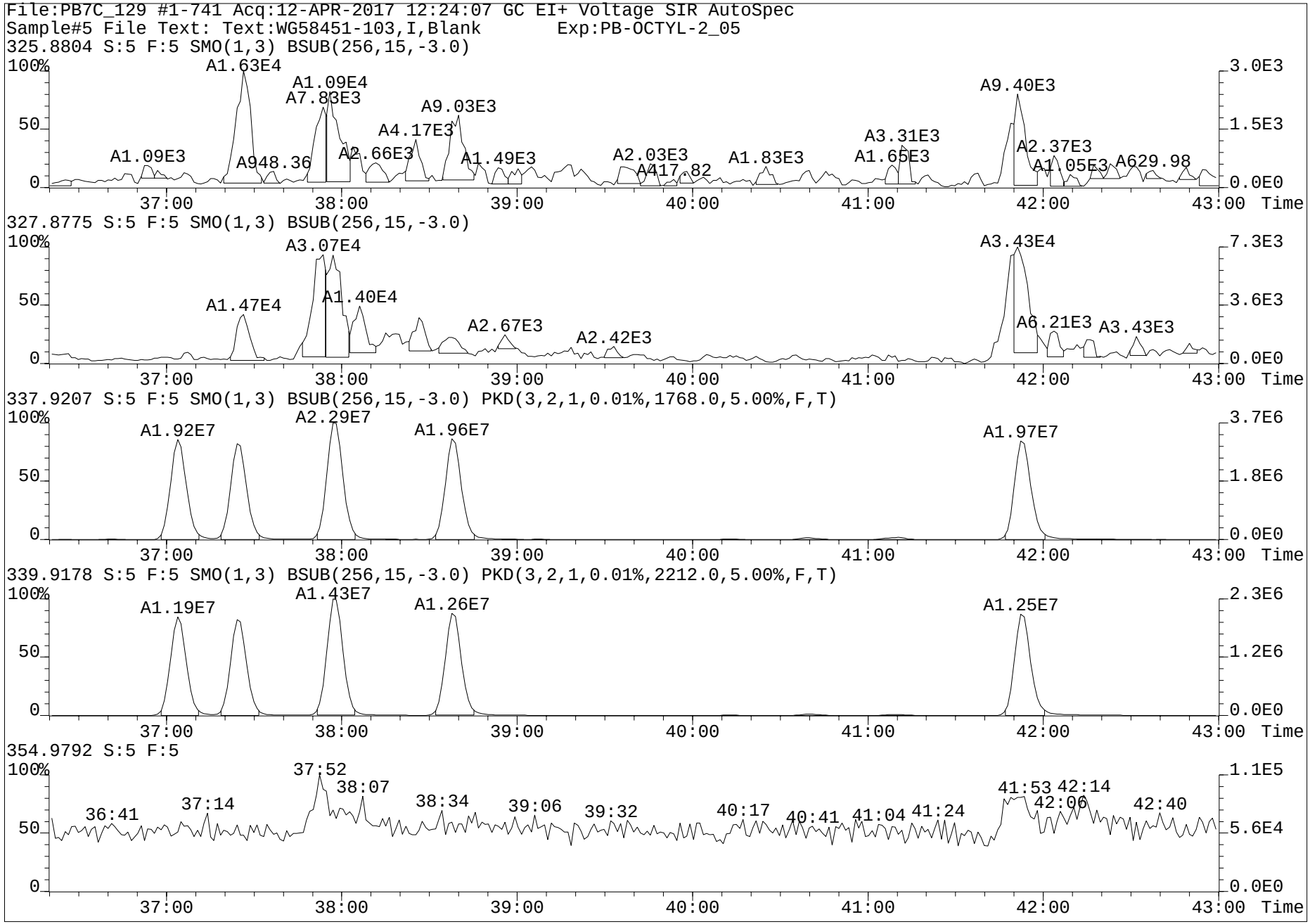

File:PB7C_129 #1-474 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.15E4
A2.39E4
A1.58E4
A1.66E3
A5.44E3
A6.59E3
A500.16
A260.74
A972.84
A1.53E3
A6.18E3
A1.86E3
291.9194 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.26E4
A3.97E4
A1.58E4
A1.64E3
A1.01E4
A2.15E3
A2.49E3
A3.98E3
301.9626 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,612.0,5.00%,F,T)
A1.81E7
A1.78E7
303.9597 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A2.33E7
A2.25E7
330.9792 S:5 F:4
28:22
28:53
29:22
29:31
29:56
30:40
31:13
32:15
32:49
33:24
33:47
34:15
34:53
35:14
35:41
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.7E3
1.8E3
0.0E0
5.3E3
2.7E3
3.0E6
1.5E6
3.8E6
1.9E6
4.3E5
2.2E5

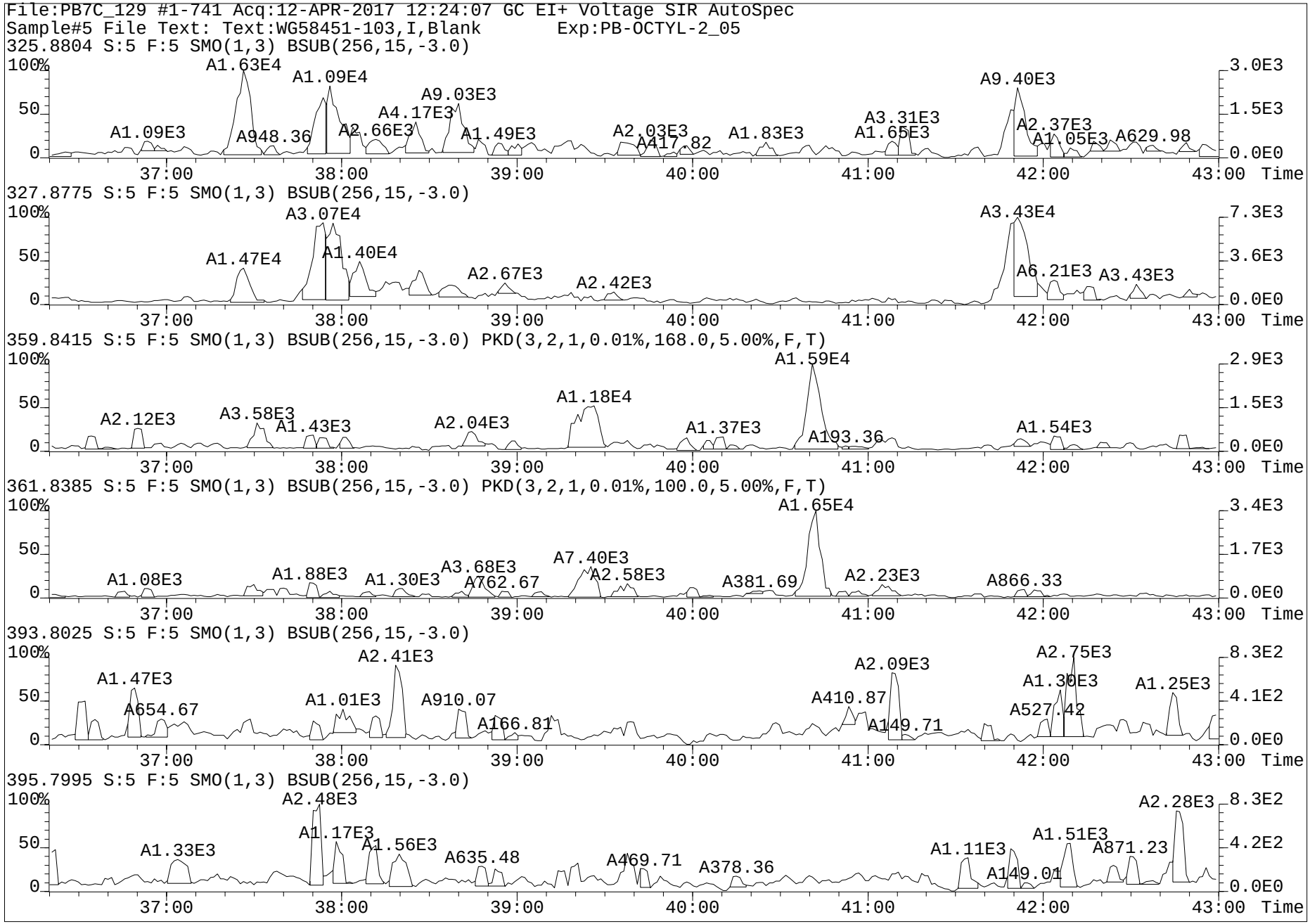

File:PB7C_129 #1-474 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.15E4
A2.39E4
A1.58E4
A1.66E3
A5.44E3
A500.16
A6.59E3
A972.84
A1.53E3
A6.18E3
A1.86E3
291.9194 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.26E4
A3.97E4
A1.58E4
A1.64E3
A1.01E4
A2.15E3
A1.73E3
A3.98E3
325.8804 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.48E4
A2.46E4
A1.18E4
A2.90E4
A2.33E4
A5.31E3
A1.16E3
A2.57E3
A1.55E3
A767.20
A708.78
A2.27E3
A997.23
327.8775 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A5.24E4
A7.02E4
A1.51E4
A1.02E4
A2.63E4
A1.94E3
A4.26E3
A3.60E3
A5.74E3
A1.21E4
A2.39E3
359.8415 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.11E3
A1.99E3
A1.22E3
A1.06E3
A2.71E3
A1.41E3
A1.19E3
A1.40E3
A2.72E3
A30.32
A381.15
A800.84
A487.28
A615.83
A1.20E3
A776.61
A496.86
361.8385 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.40E3
A1.81E3
A1.22E3
A1.10E3
A684.15
A1.19E3
A637.42
A372.92
A691.47
A19.80
A106.71
A250.67
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.7E3
1.8E3
0.0E0
5.3E3
2.7E3
4.8E3
2.4E3
6.7E3
3.4E3
1.1E3
5.5E2
7.8E2
3.9E2

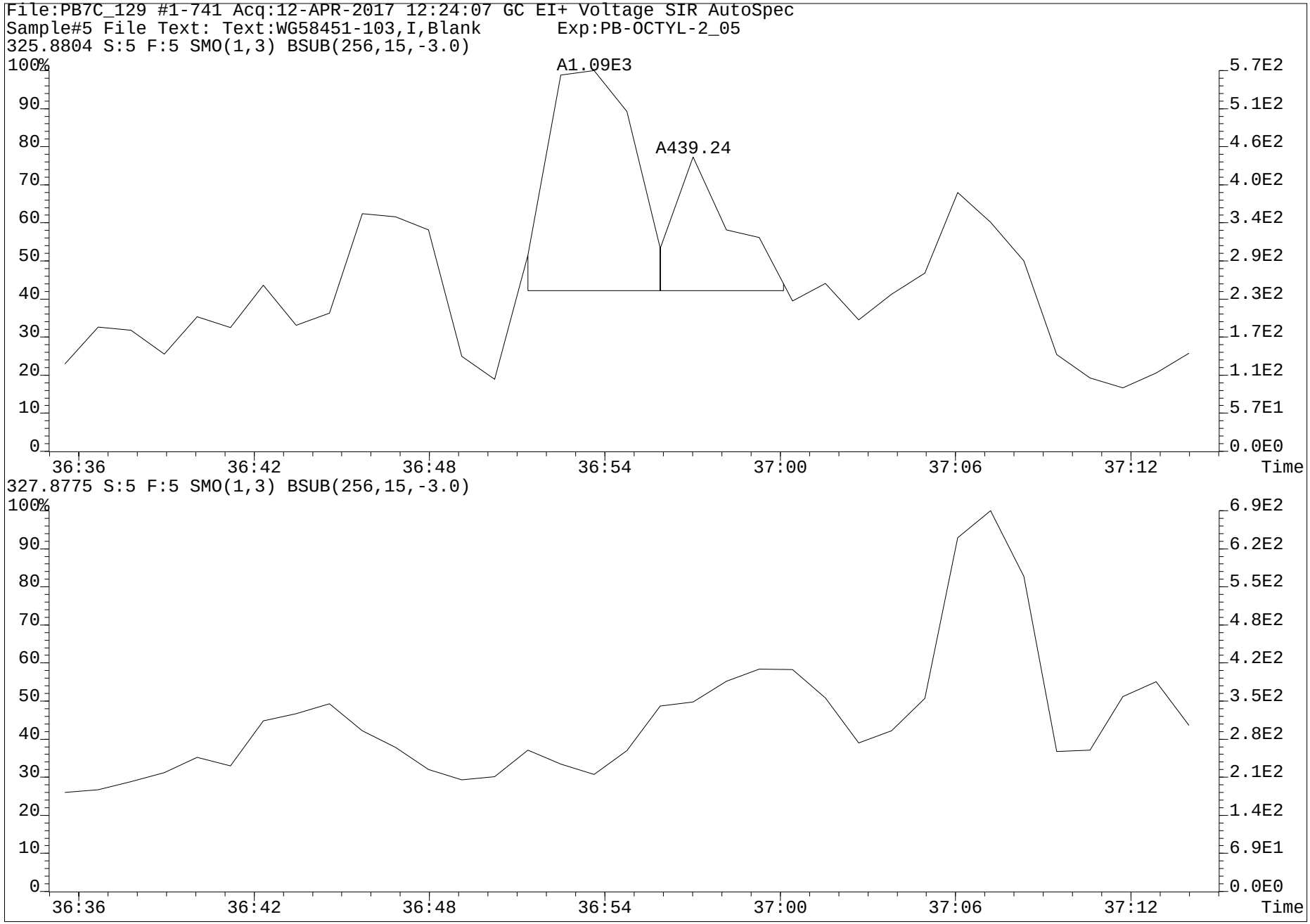

File:PB7C_129 #1-474 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
4.1E2
3.7E2
3.3E2
2.9E2
2.5E2
2.1E2
1.7E2
1.2E2
8.3E1
4.1E1
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time
291.9194 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
1.2E3
1.1E3
9.4E2
8.2E2
7.0E2
5.9E2
4.7E2
3.5E2
2.3E2
1.2E2
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time

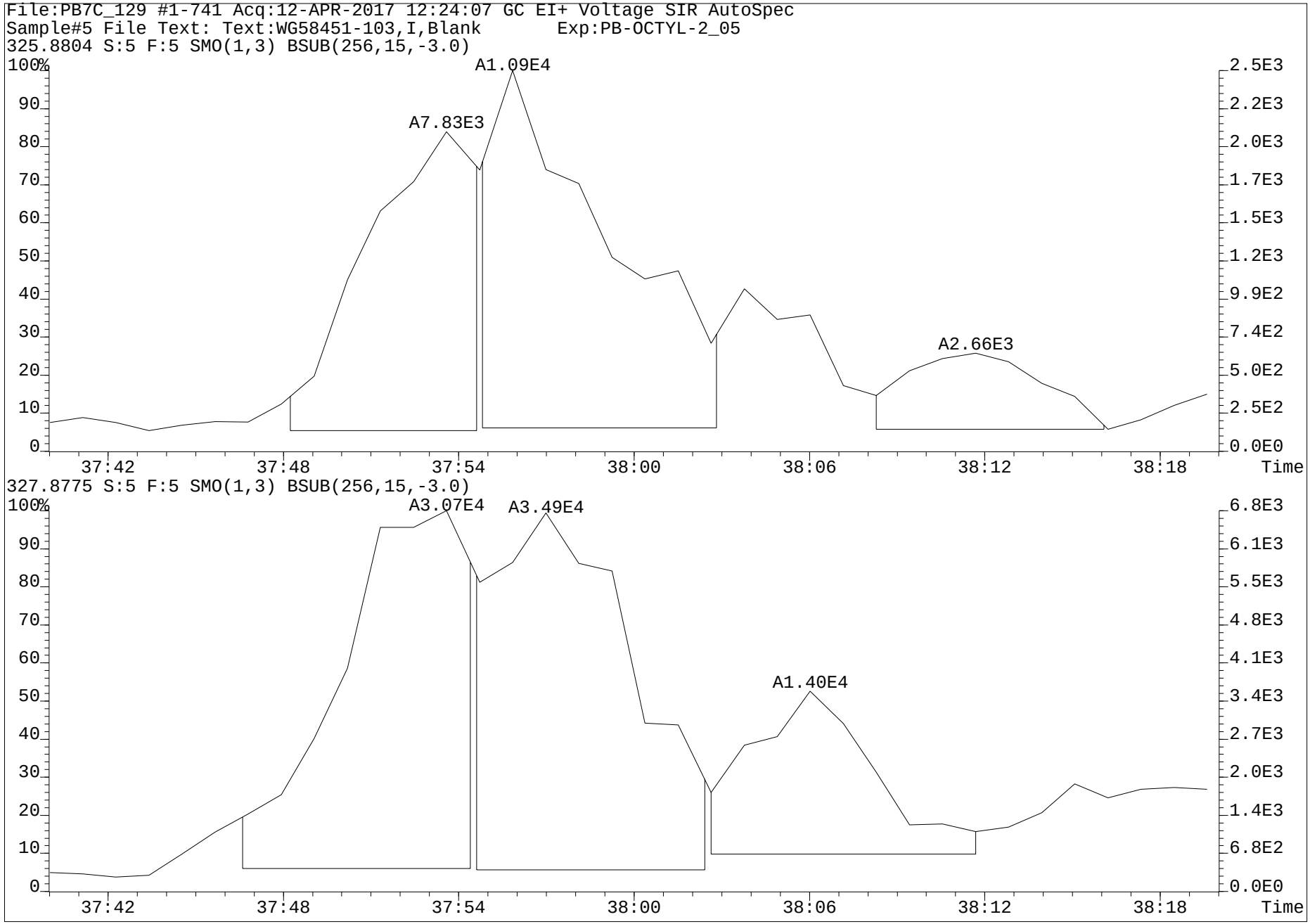

File:PB7C_129 #1-515 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A6.19E3
A1.60E3
A1.06E3
A538.58
A729.80
A1119.07
A802.93
A1.40E3
A1.01E3
A726.63
A2.14E3
A1.64E3
A71.18
A4.76E3
A799.90
A2.29E3
A770.80
A1.54E3
A381.53
327.8775 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A8.36E3
A2.28E3
A750.67
A2.78E3
A1.02E3
A3.27E4
A3.75E3
A2.90E3
A1.35E3
337.9207 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A2.17E7
339.9178 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.37E7
280.9825 S:5 F:3
20:31
21:00
21:28
22:02
22:28
22:56
23:33
24:16
25:04
25:49
26:44
27:22
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
1.6E3
7.8E2
0.0E0
6.6E3
3.3E3
4.2E6
2.1E6
2.6E6
1.3E6
8.2E5
4.1E5

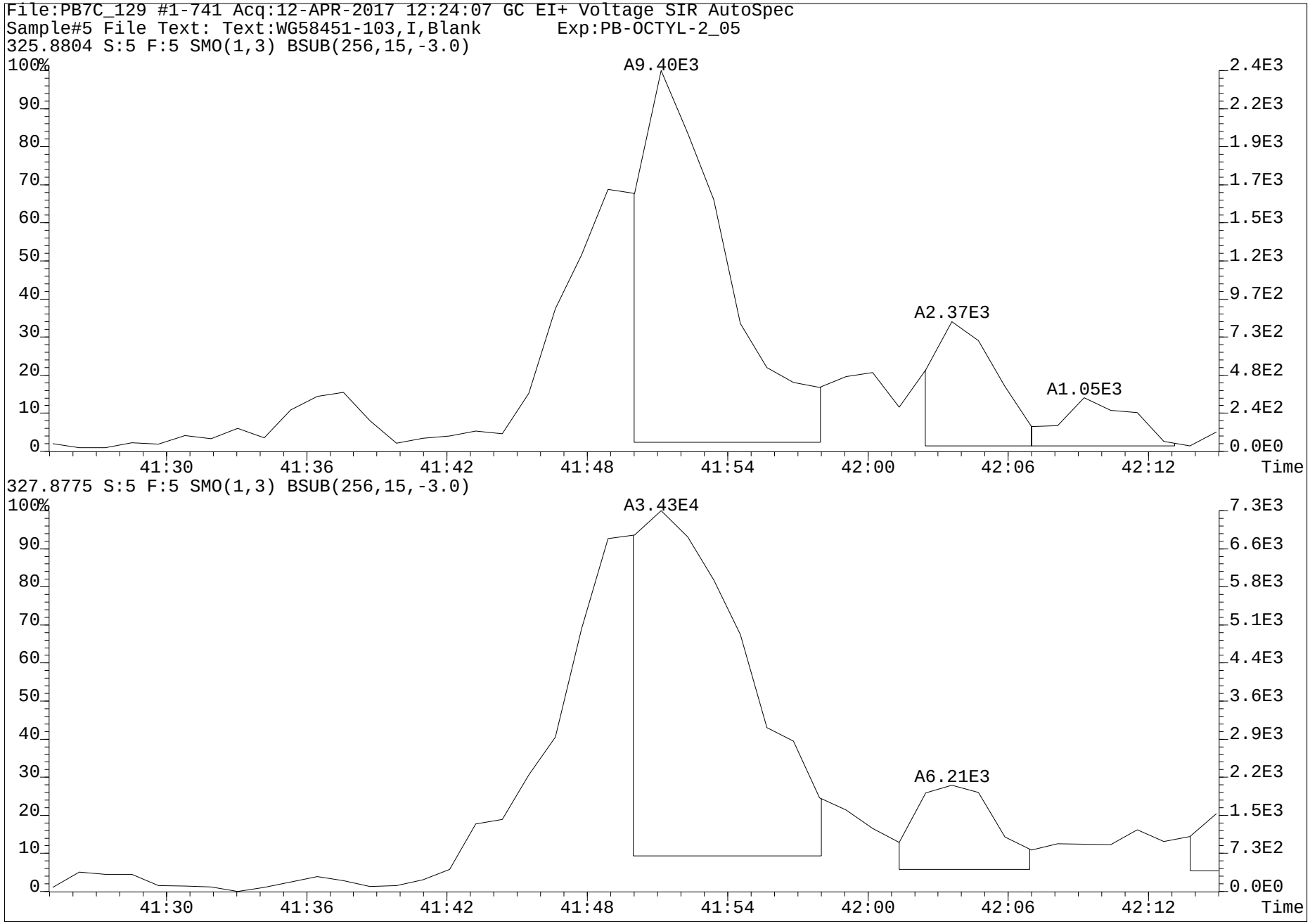

File:PB7C_129 #1-474 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.48E4
A2.46E4
A2.33E4
A2.90E4
A1.18E4
A5.31E3
A2.00E3
A1.16E3
A2.57E3
A467.76
A1.55E3
A474.83
A767.20
A1.14E3
A997.23
327.8775 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A7.02E4
A5.24E4
A1.51E4
A2.63E4
A1.94E3
A4.26E3
A3.60E3
A1.02E4
A5.74E3
A1.21E4
A2.39E3
337.9207 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,332.0,5.00%,F,T)
A2.12E7
A2.04E7
339.9178 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A1.34E7
A1.30E7
330.9792 S:5 F:4
28:22
28:53
29:22
29:31
29:56
30:40
31:13
32:15
32:49
33:24
33:47
34:15
34:53
35:14
35:41
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
4.8E3
2.4E3
0.0E0
6.7E3
3.4E3
3.7E6
1.8E6
2.4E6
1.2E6
4.3E5
2.2E5

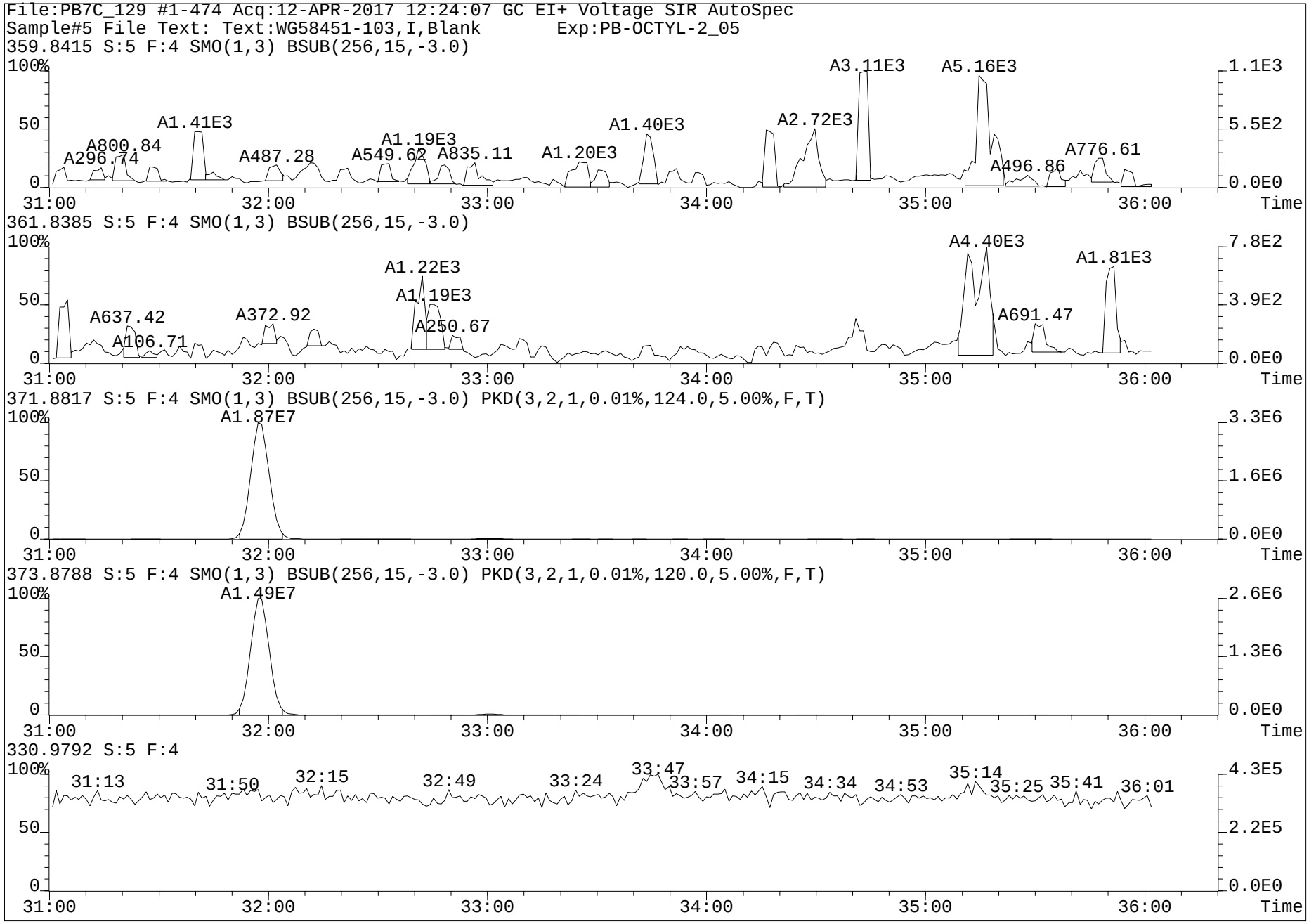

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.63E4
A1.09E4
A7.83E3
A9.03E3
A4.17E3
A9.40E3
A3.31E3
A2.37E3
A1.09E3
A948.36
A2.66E3
A1.49E3
A2.03E3
A417.82
A1.83E3
A1.65E3
A1.05E3
A629.98
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.07E4
A3.43E4
A1.47E4
A1.40E4
A2.67E3
A2.42E3
A6.21E3
A3.43E3
337.9207 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1768.0,5.00%,F,T)
A1.92E7
A2.29E7
A1.96E7
A1.97E7
339.9178 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2212.0,5.00%,F,T)
A1.19E7
A1.43E7
A1.26E7
A1.25E7
354.9792 S:5 F:5
37:52
38:07
36:41
37:14
38:34
39:06
39:32
40:17
40:41
41:04
41:24
41:53
42:14
42:06
42:40
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
3.0E3
1.5E3
0.0E0
7.3E3
3.6E3
3.7E6
1.8E6
2.3E6
1.2E6
1.1E5
5.6E4

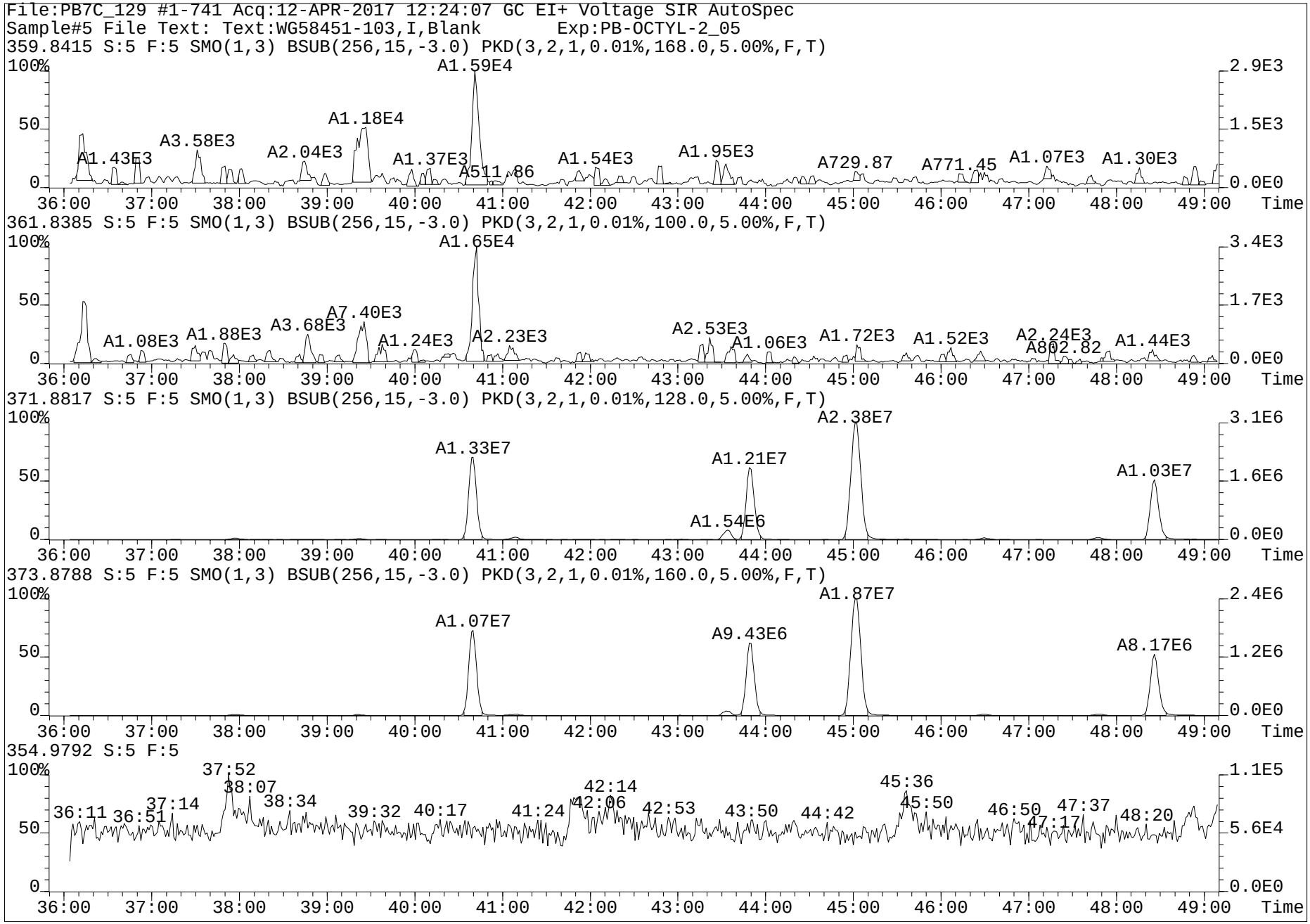

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.63E4
A1.09E4
A9.03E3
A4.17E3
A9.40E3
A3.31E3
A2.37E3
A1.09E3
A948.36
A2.66E3
A1.49E3
A2.03E3
A417.82
A1.83E3
A1.65E3
A1.05E3
A629.98
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.07E4
A3.43E4
A1.47E4
A1.40E4
A2.67E3
A2.42E3
A6.21E3
A3.43E3
359.8415 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A1.59E4
A1.18E4
A2.12E3
A3.58E3
A1.43E3
A2.04E3
A1.37E3
A193.36
A1.54E3
361.8385 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.65E4
A7.40E3
A3.68E3
A1.08E3
A1.88E3
A1.30E3
A762.67
A2.58E3
A381.69
A2.23E3
A866.33
393.8025 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.41E3
A2.09E3
A2.75E3
A1.47E3
A1.30E3
A1.25E3
A654.67
A1.01E3
A910.07
A410.87
A527.42
A166.81
A149.71
395.7995 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.48E3
A2.28E3
A1.17E3
A1.51E3
A1.33E3
A1.56E3
A635.48
A469.71
A1.11E3
A871.23
A378.36
A149.01
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
3.0E3
1.5E3
0.0E0
7.3E3
3.6E3
2.9E3
3.4E3
1.7E3
8.3E2
4.1E2
4.2E2

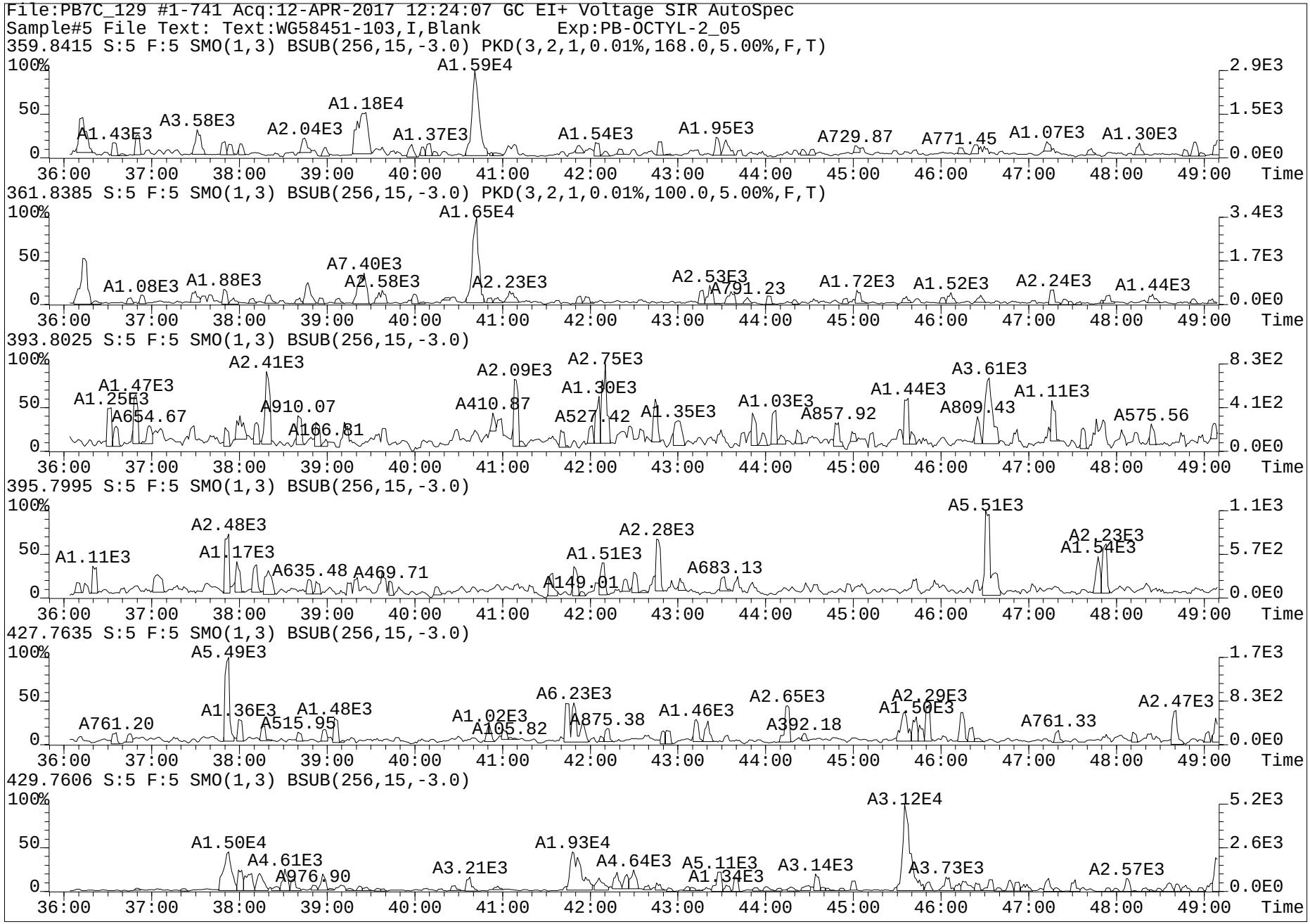

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank
Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.09E3
A439.24
100%
90
80
70
60
50
40
30
20
10
0
5.7E2
5.1E2
4.6E2
4.0E2
3.4E2
2.9E2
2.3E2
1.7E2
1.1E2
5.7E1
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
6.9E2
6.2E2
5.5E2
4.8E2
4.2E2
3.5E2
2.8E2
2.1E2
1.4E2
6.9E1
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time

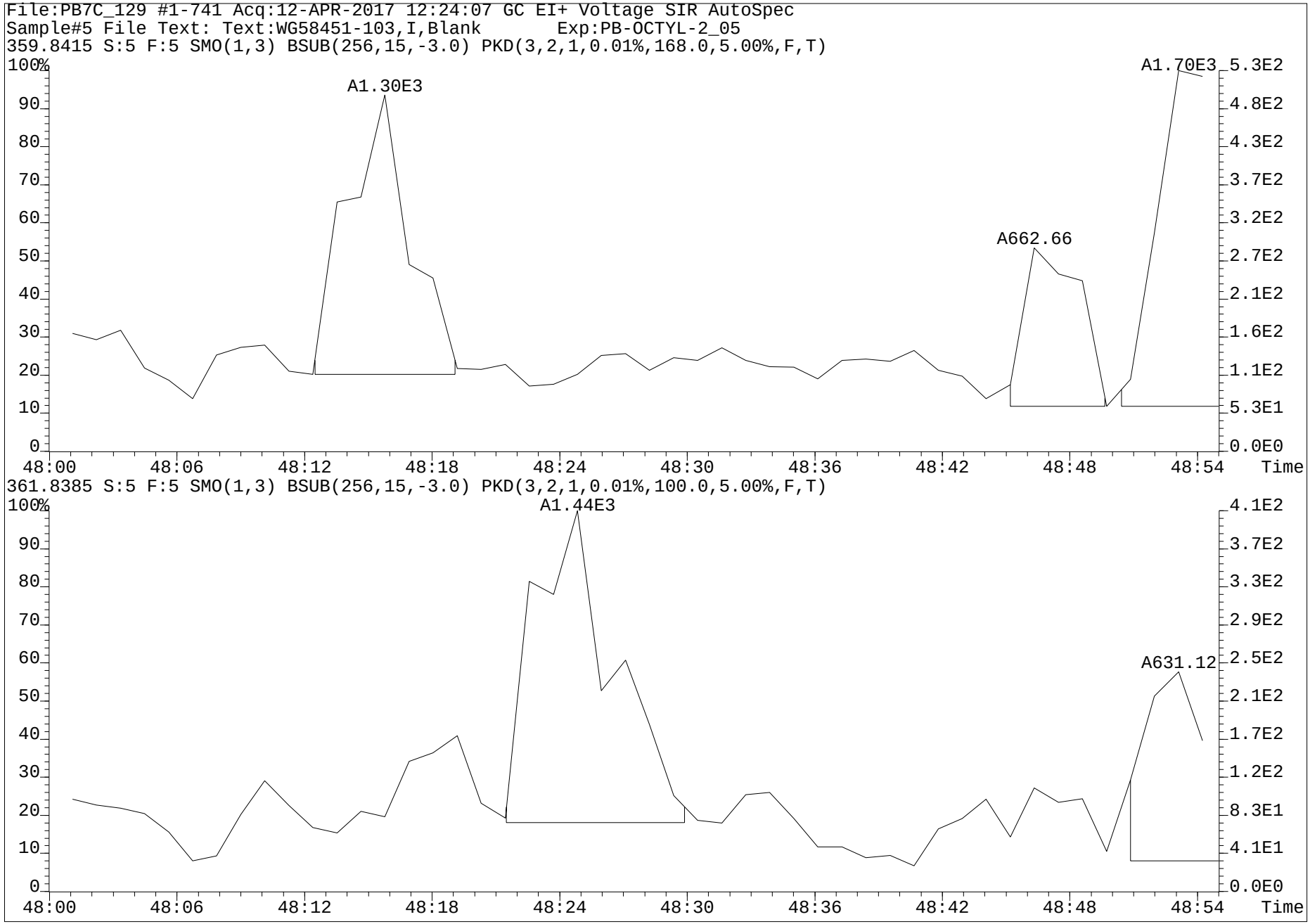

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.09E4
A7.83E3
A2.66E3
100%
90
80
70
60
50
40
30
20
10
0
2.5E3
2.2E3
2.0E3
1.7E3
1.5E3
1.2E3
9.9E2
7.4E2
5.0E2
2.5E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.07E4
A3.49E4
A1.40E4
100%
90
80
70
60
50
40
30
20
10
0
6.8E3
6.1E3
5.5E3
4.8E3
4.1E3
3.4E3
2.7E3
2.0E3
1.4E3
6.8E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time

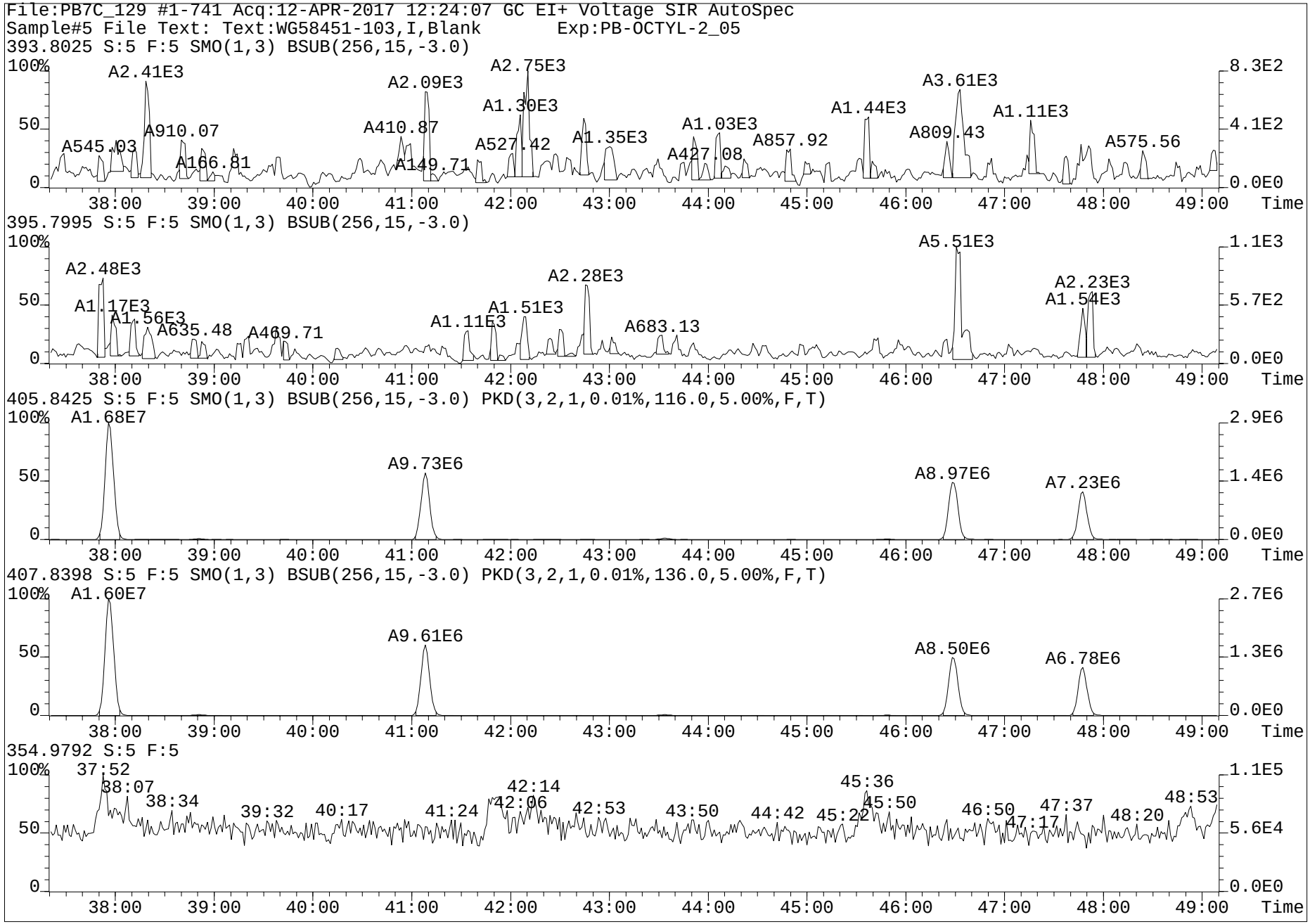

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A9.40E3
A2.37E3
A1.05E3
2.4E3
2.2E3
1.9E3
1.7E3
1.5E3
1.2E3
9.7E2
7.3E2
4.8E2
2.4E2
0.0E0
100%
90
80
70
60
50
40
30
20
10
0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.43E4
A6.21E3
7.3E3
6.6E3
5.8E3
5.1E3
4.4E3
3.6E3
2.9E3
2.2E3
1.5E3
7.3E2
0.0E0
100%
90
80
70
60
50
40
30
20
10
0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

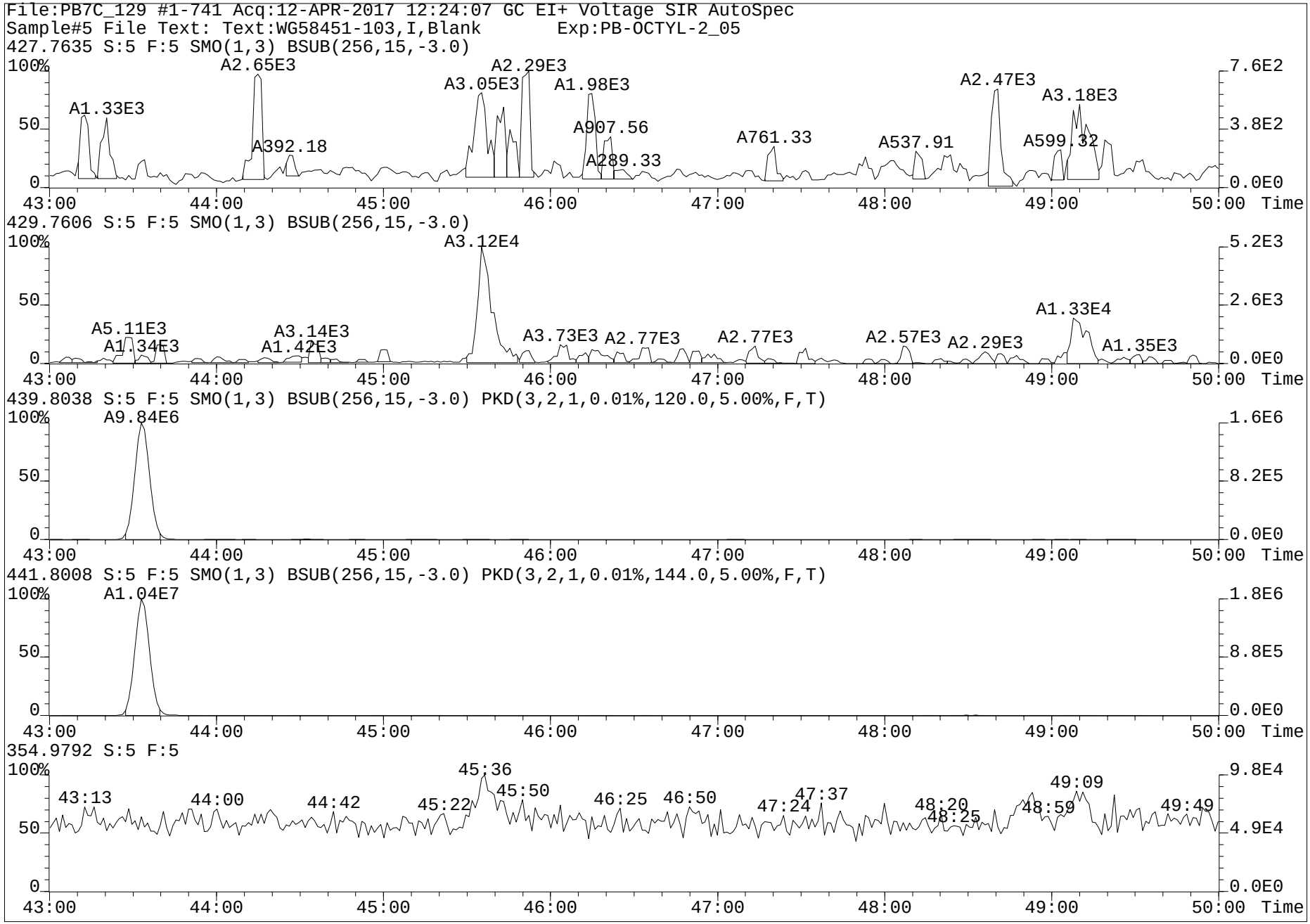

File:PB7C_129 #1-474 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.11E3
A5.16E3
A1.41E3
A2.72E3
A1.40E3
A1.19E3
A800.84
A296.74
A487.28
A549.62
A835.11
A1.20E3
A776.61
A496.86
361.8385 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0)
A4.40E3
A1.81E3
A1.22E3
A1.19E3
A637.42
A372.92
A691.47
A250.67
A106.71
371.8817 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.87E7
373.8788 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.49E7
330.9792 S:5 F:4
31:13
31:50
32:15
32:49
33:24
33:47
33:57
34:15
34:34
34:53
35:14
35:25
35:41
36:01
Time

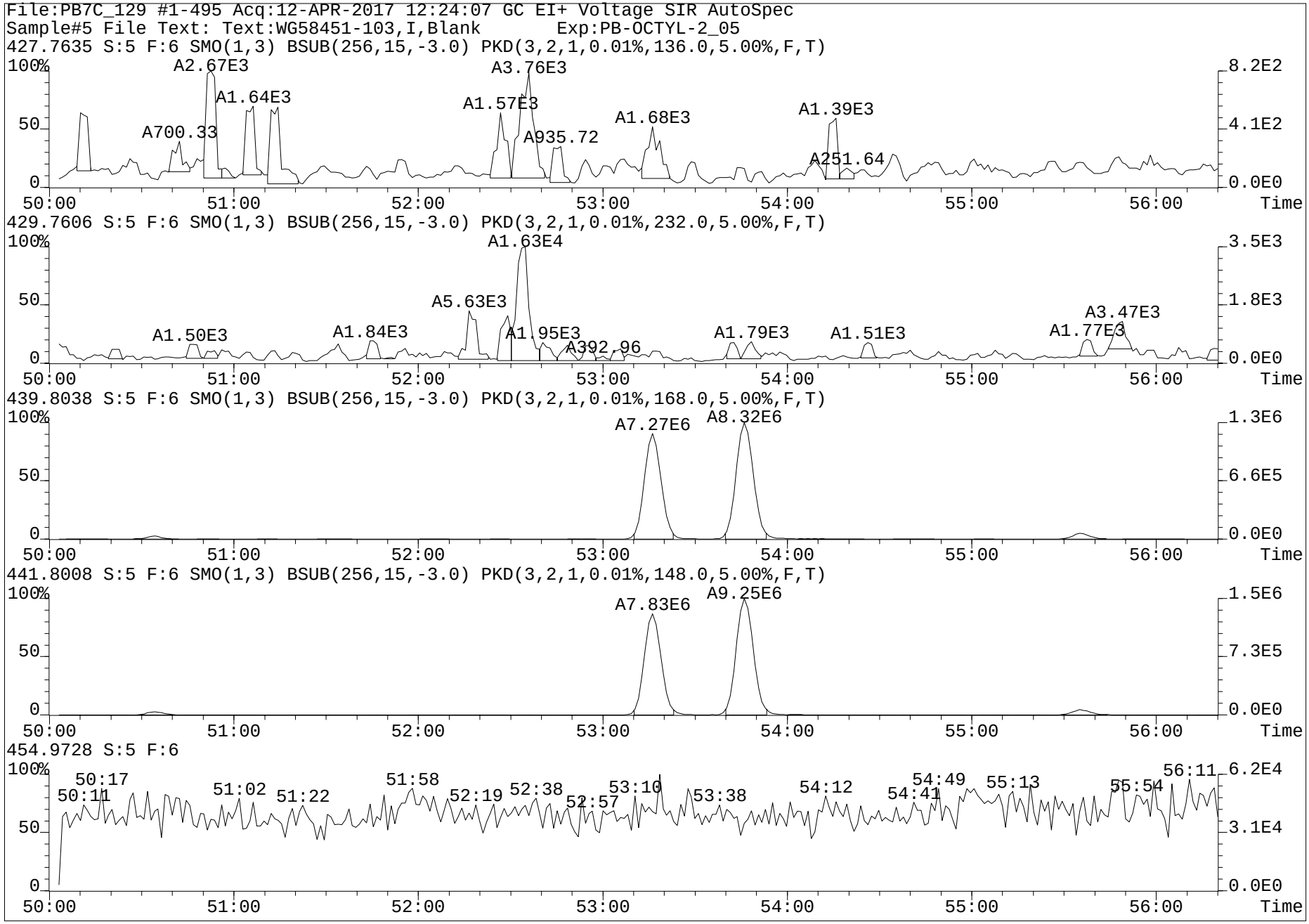

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A1.59E4
A1.18E4
A3.58E3
A1.43E3
A2.04E3
A1.37E3
A511.86
A1.54E3
A1.95E3
A729.87
A771.45
A1.07E3
A1.30E3
361.8385 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.65E4
A7.40E3
A3.68E3
A1.08E3
A1.88E3
A1.24E3
A2.23E3
A2.53E3
A1.06E3
A1.72E3
A1.52E3
A2.24E3
A802.82
A1.44E3
371.8817 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A2.38E7
A1.33E7
A1.21E7
A1.03E7
A1.54E6
373.8788 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A1.87E7
A1.07E7
A9.43E6
A8.17E6
354.9792 S:5 F:5
37:52
38:07
42:14
42:06
45:36
45:50
36:11
36:51
37:14
38:34
39:32
40:17
41:24
42:53
43:50
44:42
46:50
47:37
47:17
48:20
100%
50
0
2.9E3
1.5E3
0.0E0
3.4E3
1.7E3
3.1E6
1.6E6
2.4E6
1.2E6
1.1E5
5.6E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

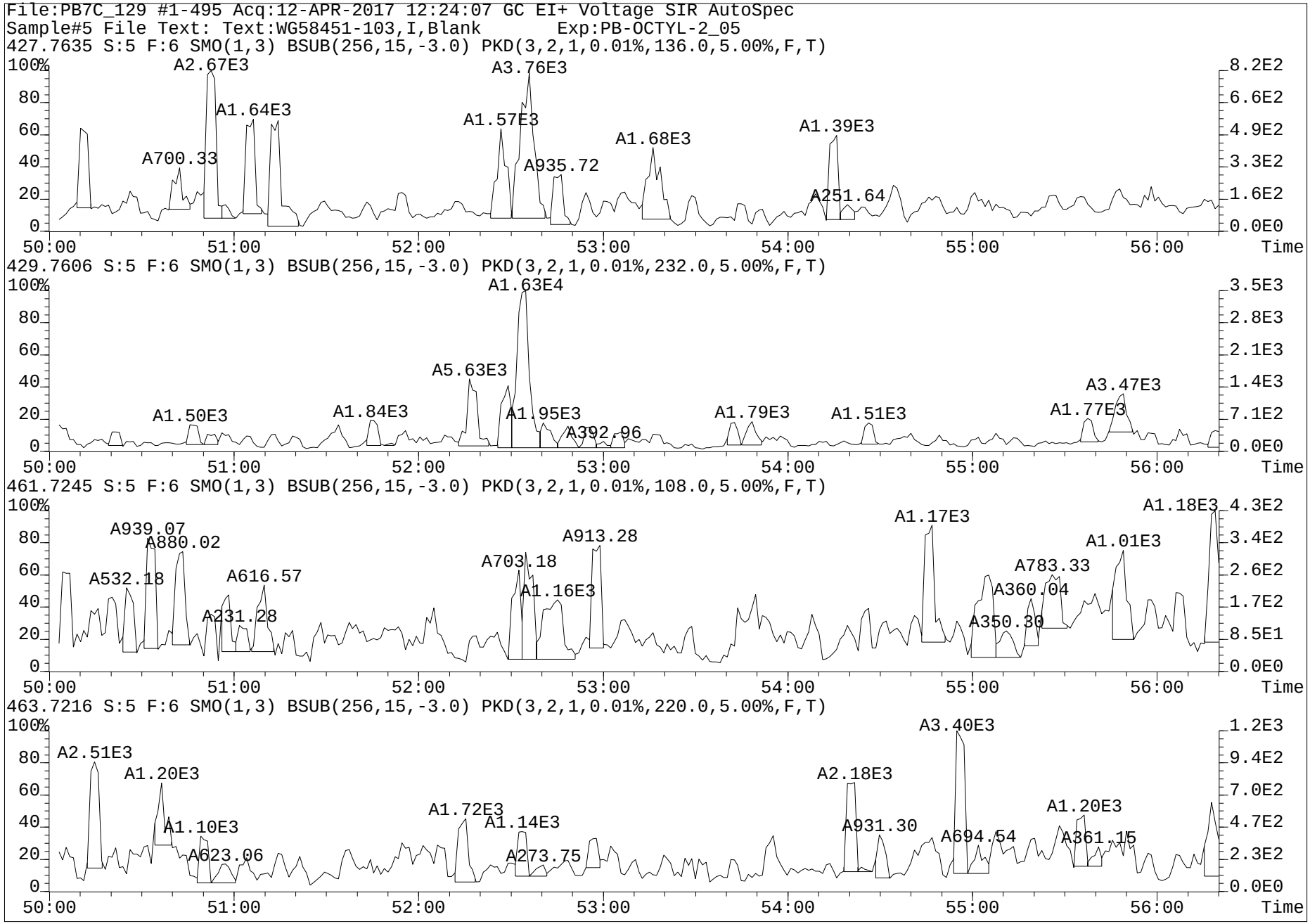

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A1.59E4
A1.18E4
A3.58E3
A1.43E3
A2.04E3
A1.37E3
A1.54E3
A1.95E3
A729.87
A771.45
A1.07E3
A1.30E3
361.8385 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.65E4
A7.40E3
A1.08E3
A1.88E3
A2.58E3
A2.23E3
A2.53E3
A791.23
A1.72E3
A1.52E3
A2.24E3
A1.44E3
393.8025 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.41E3
A2.09E3
A2.75E3
A1.30E3
A1.47E3
A1.25E3
A654.67
A910.07
A166.81
A410.87
A527.42
A1.35E3
A1.03E3
A857.92
A1.44E3
A3.61E3
A809.43
A1.11E3
A575.56
395.7995 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.51E3
A2.48E3
A2.28E3
A2.23E3
A1.54E3
A1.11E3
A1.17E3
A635.48
A469.71
A1.51E3
A149.01
A683.13
427.7635 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.49E3
A6.23E3
A2.65E3
A2.29E3
A2.47E3
A761.20
A1.36E3
A1.48E3
A515.95
A1.02E3
A105.82
A875.38
A1.46E3
A392.18
A1.50E3
A761.33
429.7606 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A3.12E4
A1.50E4
A1.93E4
A4.61E3
A976.90
A3.21E3
A4.64E3
A5.11E3
A1.34E3
A3.14E3
A3.73E3
A2.57E3
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

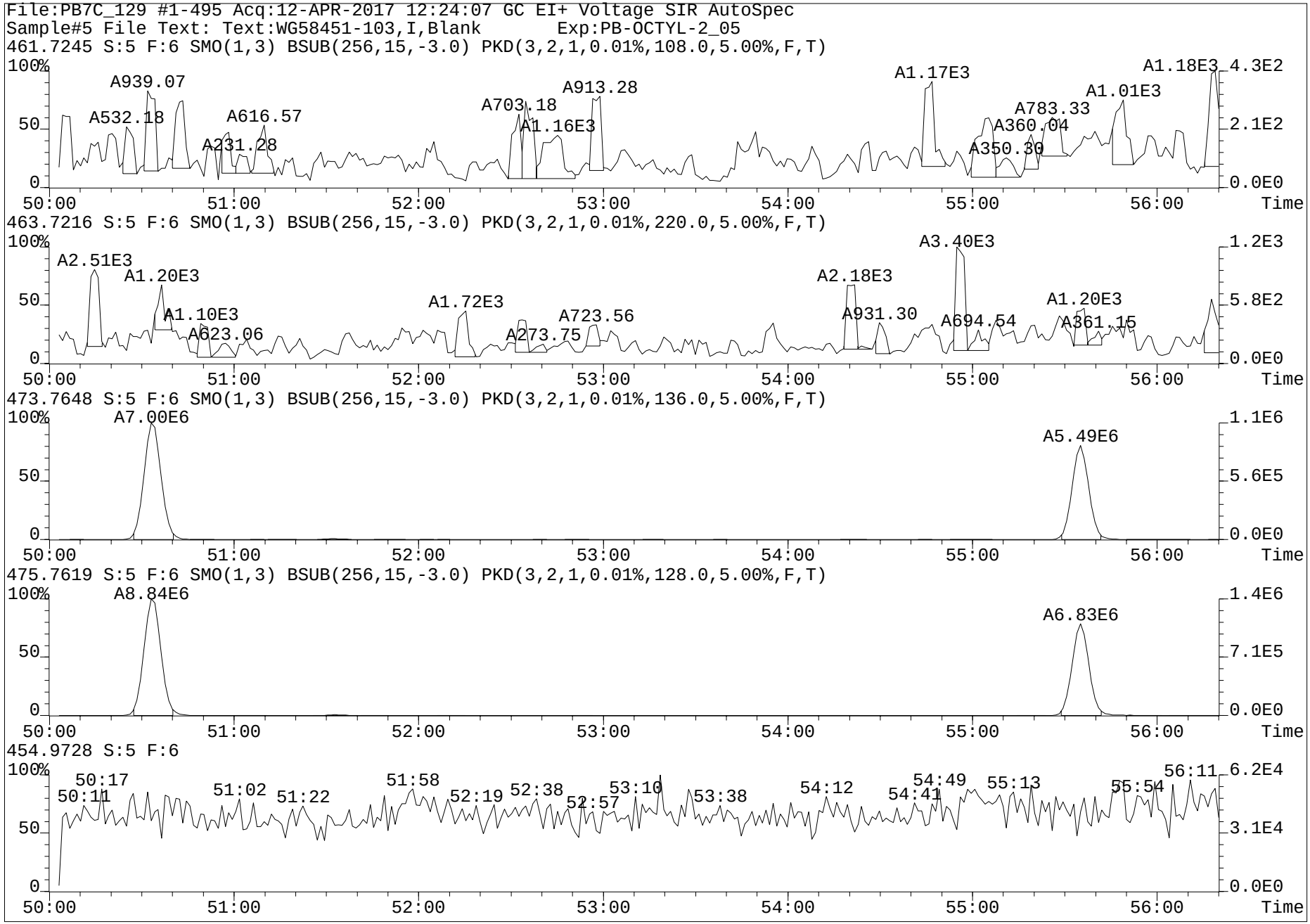

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A1.30E3
A662.66
A1.70E3
361.8385 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.44E3
A631.12
Time

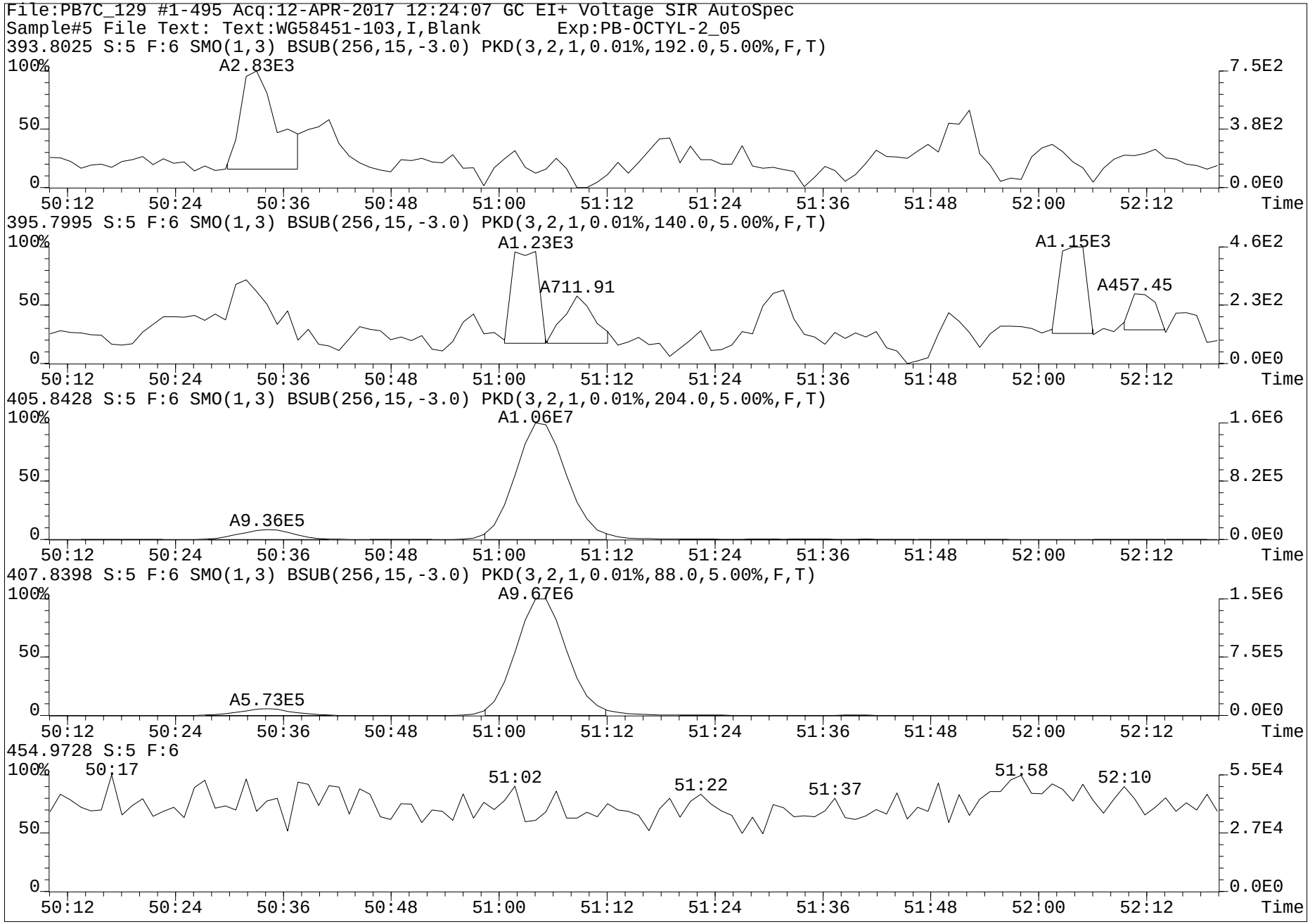

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.41E3
A2.09E3
A2.75E3
A1.30E3
A3.61E3
A1.44E3
A1.11E3
A1.03E3
A910.07
A410.87
A545.03
A166.81
A527.42
A1.35E3
A149.71
A427.08
A857.92
A809.43
A575.56
395.7995 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.51E3
A2.48E3
A2.28E3
A2.23E3
A1.54E3
A1.17E3
A1.56E3
A1.51E3
A1.11E3
A635.48
A469.71
A683.13
405.8425 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.68E7
A9.73E6
A8.97E6
A7.23E6
407.8398 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.60E7
A9.61E6
A8.50E6
A6.78E6
354.9792 S:5 F:5
37:52
38:07
38:34
39:32
40:17
41:24
42:14
42:06
42:53
43:50
44:42
45:22
45:36
45:50
46:50
47:17
47:37
48:20
48:53
100%
50
0
8.3E2
4.1E2
0.0E0
1.1E3
5.7E2
2.9E6
1.4E6
2.7E6
1.3E6
1.1E5
5.6E4
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

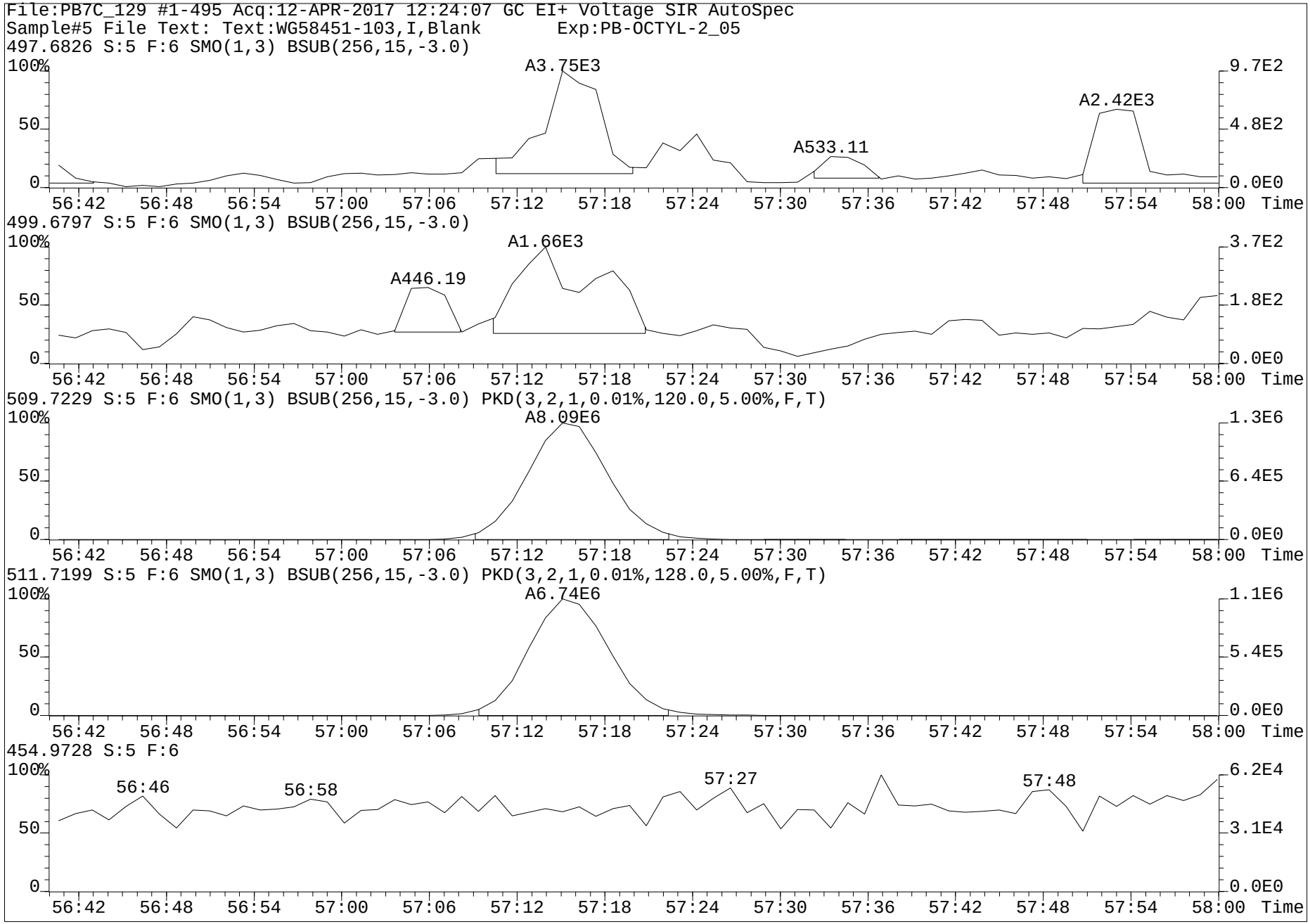

File:PB7C_129 #1-741 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.33E3
A2.65E3
A392.18
A3.05E3
A2.29E3
A1.98E3
A907.56
A289.33
A761.33
A537.91
A2.47E3
A3.18E3
A599.32
429.7606 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0)
A5.11E3
A1.34E3
A3.14E3
A1.42E3
A3.12E4
A3.73E3
A2.77E3
A2.77E3
A2.57E3
A2.29E3
A1.33E4
A1.35E3
439.8038 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A9.84E6
441.8008 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A1.04E7
354.9792 S:5 F:5
43:13
44:00
44:42
45:22
45:36
45:50
46:25
46:50
47:24
47:37
48:20
48:25
48:59
49:09
49:49
100%
50
0
7.6E2
3.8E2
0.0E0
5.2E3
2.6E3
1.6E6
8.2E5
1.8E6
8.8E5
9.8E4
4.9E4
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A2.67E3
A3.76E3
A1.64E3
A1.57E3
A1.68E3
A1.39E3
A700.33
A935.72
A251.64
429.7606 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.63E4
A5.63E3
A3.47E3
A1.50E3
A1.84E3
A1.95E3
A1.79E3
A1.51E3
A1.77E3
A392.96
439.8038 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A7.27E6
A8.32E6
441.8008 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A7.83E6
A9.25E6
454.9728 S:5 F:6
50:11
50:17
51:02
51:22
51:58
52:19
52:38
52:57
53:10
53:38
54:12
54:41
54:49
55:13
55:54
56:11
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
8.2E2
4.1E2
0.0E0
3.5E3
1.8E3
1.3E6
6.6E5
1.5E6
7.3E5
6.2E4
3.1E4


File:PB7C_129 #1-495 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A2.67E3
A3.76E3
A1.64E3
A1.57E3
A1.68E3
A1.39E3
A700.33
A935.72
A251.64
429.7606 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.63E4
A5.63E3
A3.47E3
A1.50E3
A1.84E3
A1.95E3
A1.79E3
A1.51E3
A1.77E3
A392.96
461.7245 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A939.07
A880.02
A913.28
A1.17E3
A1.18E3
A703.18
A1.01E3
A532.18
A616.57
A783.33
A360.04
A1.16E3
A231.28
A350.30
463.7216 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A3.40E3
A2.51E3
A1.20E3
A2.18E3
A1.72E3
A1.20E3
A1.14E3
A1.10E3
A931.30
A694.54
A361.15
A623.06
A273.75
100%
80
60
40
20
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
8.2E2
6.6E2
4.9E2
3.3E2
1.6E2
0.0E0
3.5E3
2.8E3
2.1E3
1.4E3
7.1E2
4.3E2
3.4E2
2.6E2
1.7E2
8.5E1
1.2E3
9.4E2
7.0E2
4.7E2
2.3E2


File:PB7C_129 #1-495 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
461.7245 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A939.07
A532.18
A616.57
A231.28
A703.18
A913.28
A1.16E3
A1.17E3
A783.33
A360.04
A350.30
A1.01E3
A1.18E3
463.7216 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A2.51E3
A1.20E3
A1.10E3
A623.06
A1.72E3
A723.56
A273.75
A2.18E3
A3.40E3
A931.30
A694.54
A1.20E3
A361.15
473.7648 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A7.00E6
A5.49E6
475.7619 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A8.84E6
A6.83E6
454.9728 S:5 F:6
50:17
50:11
51:02
51:22
51:58
52:19
52:38
52:57
53:10
53:38
54:12
54:41
54:49
55:13
55:54
56:11
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
4.3E2
2.1E2
0.0E0
1.2E3
5.8E2
1.1E6
5.6E5
1.4E6
7.1E5
6.2E4
3.1E4


File:PB7C_129 #1-495 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,192.0,5.00%,F,T)
A2.83E3
395.7995 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A1.23E3
A711.91
A1.15E3
A457.45
405.8428 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,204.0,5.00%,F,T)
A1.06E7
A9.36E5
407.8398 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,88.0,5.00%,F,T)
A9.67E6
A5.73E5
454.9728 S:5 F:6
50:17
51:02
51:22
51:37
51:58
52:10
100%
50
0
7.5E2
3.8E2
0.0E0
4.6E2
2.3E2
1.6E6
8.2E5
1.5E6
7.5E5
5.5E4
2.7E4
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 12:24:07 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:WG58451-103,I,Blank Exp:PB-OCTYL-2_05
497.6826 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0)
A3.75E3
A2.42E3
A533.11
9.7E2
4.8E2
0.0E0
499.6797 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0)
A1.66E3
A446.19
3.7E2
1.8E2
0.0E0
509.7229 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A8.09E6
1.3E6
6.4E5
0.0E0
511.7199 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A6.74E6
1.1E6
5.4E5
0.0E0
454.9728 S:5 F:6
56:46
56:58
57:27
57:48
6.2E4
3.1E4
0.0E0
100%
50
0
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time

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Run #12 Filename PB7C_129 S: 6 I: 1 Acquired: 12-APR-17 13:28:20 Processed: 13-APR-17 07:58:25
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-104,I,Blank Comments: 1,WG58451,1.0/20uL,:1668C
sample size: 1.000000 conc units: pg/L total toxicity: 17.34 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 1.35e+05 | 2.80 | y | 11:31 | 3.183 | 3 | 0.1488 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 1.36e+05 | 3.53 | y | 13:44 | 3.203 | 3 | 0.1819 | - | y |
| 3 | Unk | CL2-PCB-4 | 1 | 7.28e+04 | 1.71 | y | 13:58 | 2.661 | 3 | 0.7462 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 1.86e+05 | 1.56 | y | 20:03 | 4.030 | 4 | 0.5539 | - | y |
| 5 | Unk | CL3-PCB-19 | 1 | 1.33e+04 | 0.64 | n | 17:09 | 0.571 | 1 | 0.1803 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 5.74e+04 | 0.93 | y | 27:22 | 1.272 | 1 | 0.2344 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 1.32e+03 | 0.82 | y | 20:18 | 0.038 | 0 | 0.1159 | - | n |
| 8 | Unk | CL4-PCB-81 | 0 | * | * | n | NotFnd | * | * | 0.4199 | - | n |
| 9 | Unk | CL4-PCB-77 | 0 | * | * | n | NotFnd | * | * | 0.4350 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.08e+03 | 2.46 | n | 25:59 | 0.109 | 0 | 0.1071 | - | n |
| 11 | Unk | CL5-PCB-123 | 0 | * | * | n | NotFnd | * | * | 0.2279 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 2.96e+04 | 1.74 | y | 37:26 | 1.059 | 1 | 0.2214 | - | n |
| 13 | Unk | CL5-PCB-114 | 0 | * | * | n | NotFnd | * | * | 0.2154 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 8.97e+03 | 2.81 | n | 38:40 | 0.299 | 0 | 0.2034 | - | n |
| 15 | Unk | CL5-PCB-126 | 0 | * | * | n | NotFnd | * | * | 0.2503 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 4.71e+03 | 2.52 | n | 31:59 | 0.176 | 0 | 0.1028 | - | n |
| 17 | Unk | CL6-PCB-167 | 0 | * | * | n | NotFnd | * | * | 0.1913 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 0 | * | * | n | NotFnd | * | * | 0.2250 | - | n |
| 19 | Unk | CL6-PCB-169 | 0 | * | * | n | NotFnd | * | * | 0.2057 | - | n |
| 20 | Unk | CL7-PCB-188 | 0 | * | * | n | NotFnd | * | * | 0.1641 | - | n |
| 21 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.3033 | - | n |
| 22 | Unk | CL8-PCB-202 | 0 | * | * | n | NotFnd | * | * | 0.1997 | - | n |
| 23 | Unk | CL8-PCB-205 | 0 | * | * | n | NotFnd | * | * | 0.2206 | - | n |
| 24 | Unk | CL9-PCB-208 | 0 | * | * | n | NotFnd | * | * | 0.4411 | - | n |
| 25 | Unk | CL9-PCB-206 | 0 | * | * | n | NotFnd | * | * | 0.5098 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 1.15e+04 | 1.33 | y | 57:16 | 0.745 | 1 | 0.2420 | - | y |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 7.75e+07 | 3.18 | y | 11:30 | 1031.136 | 0 | 2.1492 | 51.6 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 7.79e+07 | 3.13 | y | 13:44 | 1062.774 | 0 | 2.2038 | 53.1 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 5.34e+07 | 1.60 | y | 13:58 | 1108.136 | 0 | 1.0600 | 55.4 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 9.92e+07 | 1.59 | y | 20:03 | 1256.771 | 0 | 0.6473 | 62.8 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 4.70e+07 | 1.05 | y | 17:08 | 1090.462 | 0 | 4.4126 | 54.5 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 8.93e+07 | 1.07 | y | 27:20 | 1404.472 | 0 | 3.9176 | 70.2 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 6.67e+07 | 0.80 | y | 20:19 | 1282.111 | 0 | 0.3341 | 64.1 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 7.02e+07 | 0.79 | y | 34:23 | 1363.585 | 0 | 0.3775 | 68.2 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 7.12e+07 | 0.79 | y | 34:59 | 1341.416 | 0 | 0.3661 | 67.1 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 5.41e+07 | 1.61 | y | 26:01 | 1282.765 | 0 | 0.0834 | 64.1 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 5.48e+07 | 1.61 | y | 37:04 | 1449.897 | 0 | 2.3388 | 72.5 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 5.46e+07 | 1.58 | y | 37:24 | 1462.558 | 0 | 2.3700 | 73.1 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.37e+07 | 1.62 | y | 37:57 | 1484.193 | 0 | 2.4448 | 74.2 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 5.89e+07 | 1.61 | y | 38:37 | 1587.518 | 0 | 2.3821 | 79.4 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 4.99e+07 | 1.60 | y | 41:53 | 1466.435 | 0 | 2.6007 | 73.3 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 5.32e+07 | 1.27 | y | 31:57 | 1335.123 | 0 | 0.0912 | 66.8 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 4.15e+07 | 1.29 | y | 43:49 | 1435.690 | 0 | 0.1362 | 71.8 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 8.76e+07 | 1.24 | y | 45:01 | 2907.094 | 0 | 0.1306 | 72.7 | n |

S'D BY SJH 20-Apr-2017

PV by TD 15-Apr-2017

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 4.32e+07 | 1.26 | y | 48:26 | 1501.828 | 0 | 0.1370 | 75.1 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 4.58e+07 | 1.06 | y | 37:56 | 1095.272 | 0 | 0.0879 | 54.8 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 4.43e+07 | 1.07 | y | 51:05 | 1625.799 | 0 | 2.0484 | 81.3 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 3.81e+07 | 0.90 | y | 43:33 | 982.369 | 0 | 0.0868 | 49.1 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 3.78e+07 | 0.91 | y | 53:46 | 1481.699 | 0 | 2.0262 | 74.1 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.06e+07 | 0.78 | y | 50:33 | 1254.260 | 0 | 0.4695 | 62.7 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.61e+07 | 0.77 | y | 55:35 | 1415.411 | 0 | 0.6208 | 70.8 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.03e+07 | 1.18 | y | 57:15 | 1302.946 | 0 | 0.1635 | 65.1 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.45e+08 | 1.60 | y | 16:00 | 90.760 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 7.42e+07 | 0.78 | y | 25:03 | 84.661 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 5.74e+07 | 1.60 | y | 32:12 | 74.139 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 4.58e+07 | 1.29 | y | 40:39 | 66.556 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 3.34e+07 | 0.92 | y | 53:16 | 77.499 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 1.05e+08 | 1.06 | y | 23:10 | 1670.690 | 0 | 3.9716 | 83.5 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.59e+07 | 1.61 | y | 35:01 | 1486.821 | 0 | 0.2054 | 74.3 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.47e+07 | 1.03 | y | 41:08 | 1537.983 | 0 | 0.1607 | 76.9 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 6.67e+07 | 0.80 | y | 20:19 | 1282.111 | 0 | 0.3341 | 64.1 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 4.58e+07 | 1.06 | y | 37:56 | 1095.272 | 0 | 0.0879 | 54.8 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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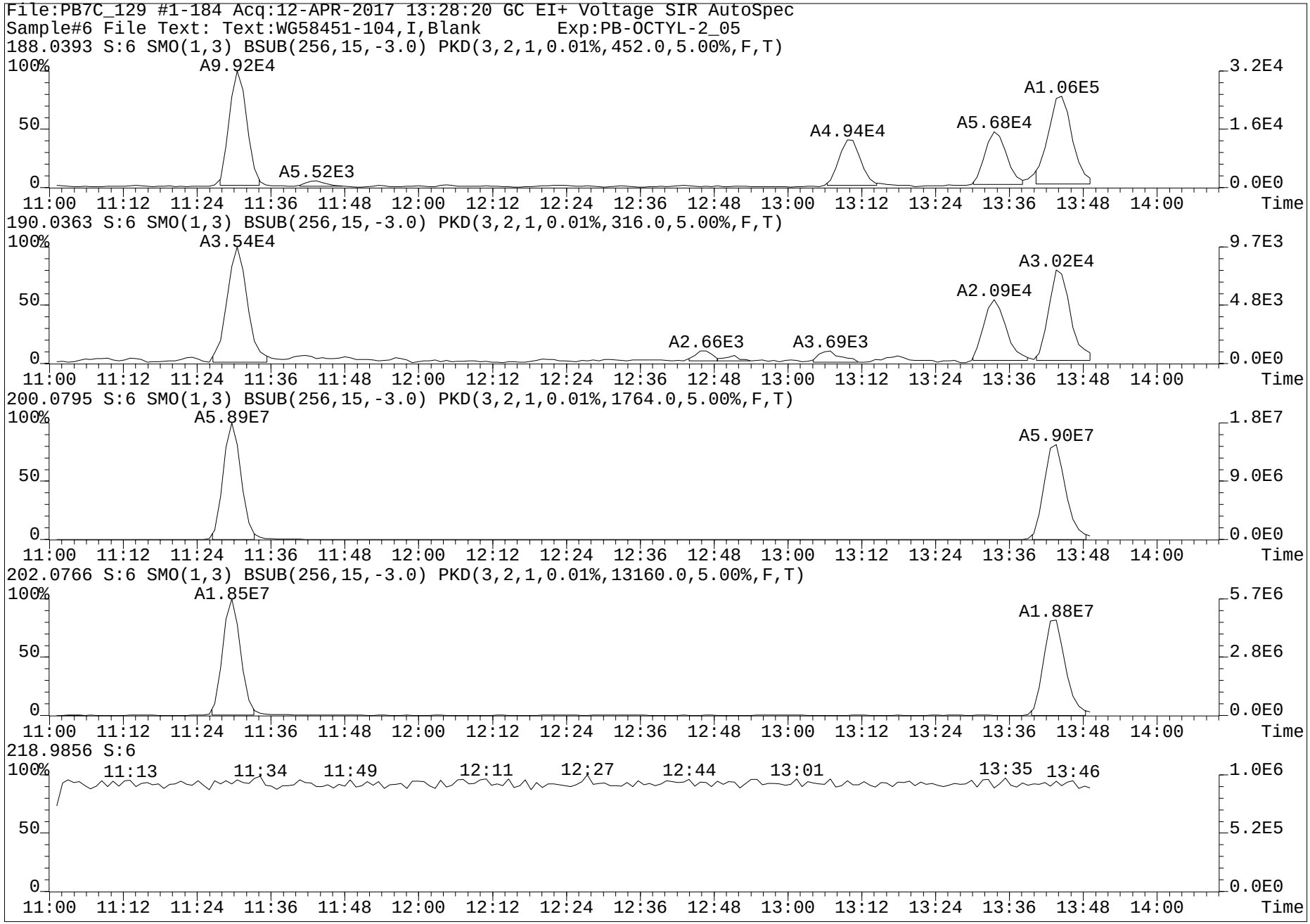
Run #5 Filename PB7C_129 S: 6 I: 1 Acquired: 12-APR-17 13:28:20 Processed: 13-APR-17 08:22:40
Run: pb7c_129-tc Analyte: 1668XB-S8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-104,I,Blank Comments: 1,WG58451,1.0/20uL,:1668C
sample size: 1.000000 conc units: pg/L total toxicity: 159.96 F1: 1.0000 F2: 1.0000

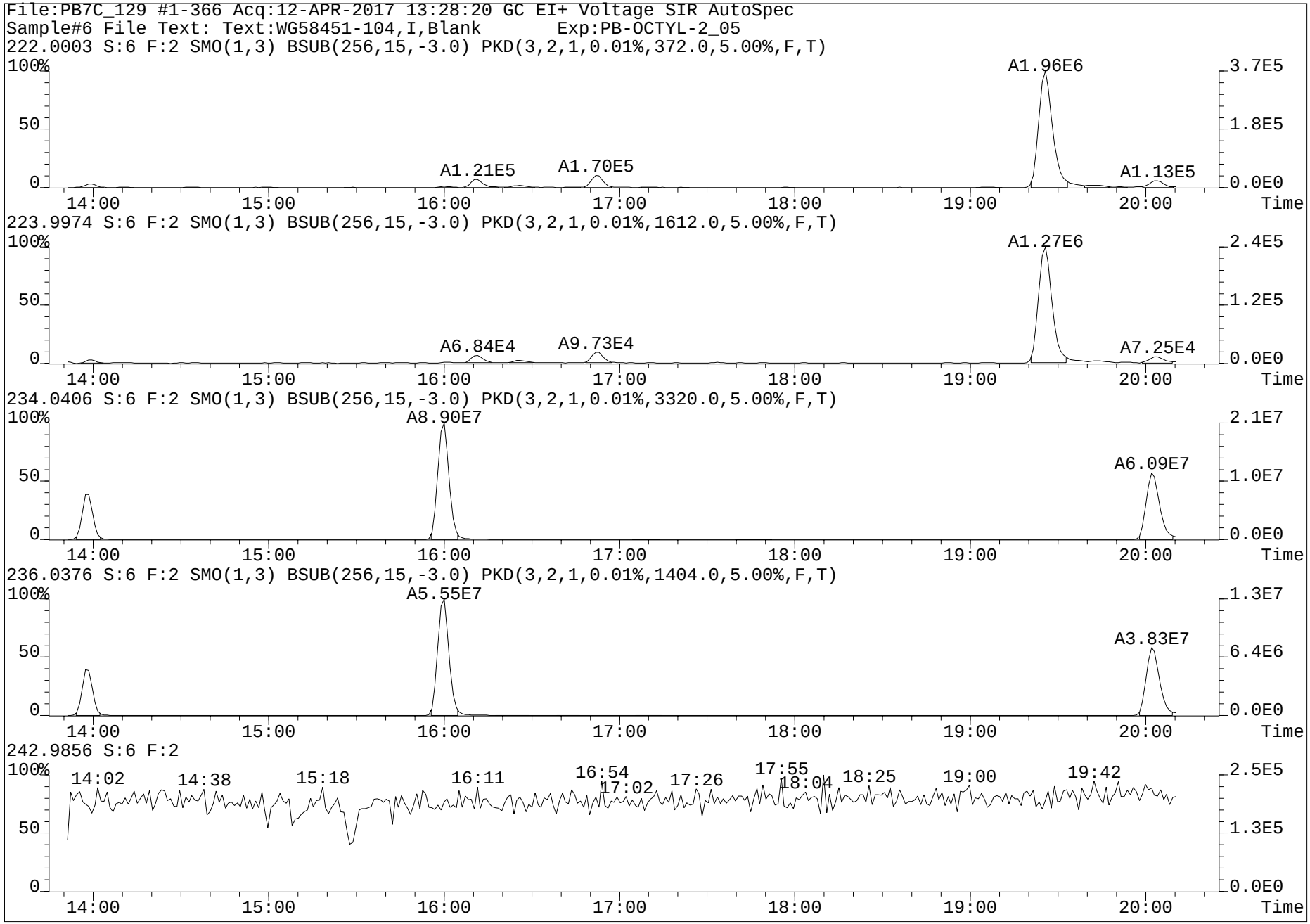
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 1 | 7.76e+04 | 2.72 | y | 13:33 | 1.780 | 2 | 0.1611 | - | n |
| 2 | Unk | CL2-PCB-10 | 0 | * | * | n | NotFnd | * | * | 0.4938 | - | n |
| 3 | Unk | CL2-PCB-9 | 0 | * | * | n | NotFnd | * | * | 0.4714 | - | n |
| 4 | Unk | CL2-PCB-7 | 1 | 1.90e+05 | 1.77 | y | 16:11 | 3.970 | 4 | 0.4808 | - | n |
| 5 | Unk | CL2-PCB-6 | 1 | 5.36e+04 | 1.34 | y | 16:25 | 1.096 | 1 | 0.4693 | - | y |
| 6 | Unk | CL2-PCB-5 | 0 | * | * | n | NotFnd | * | * | 0.5139 | - | n |
| 7 | Unk | CL2-PCB-8 | 1 | 2.67e+05 | 1.75 | y | 16:52 | 5.171 | 5 | 0.4441 | - | n |
| 8 | Unk | CL2-PCB-14 | 0 | * | * | n | NotFnd | * | * | 0.4742 | - | n |
| 9 | Unk | CL2-PCB-11 | 1 | 3.23e+06 | 1.54 | y | 19:26 | 66.795 | 67 | 0.4754 | - | n |
| 10 | Unk | CL2-PCB-12/13 | 0 | * | * | n | NotFnd | * | * | 0.4846 | - | n |
| 11 | Unk | CL3-PCB-30/18 | 1 | 1.94e+05 | 1.16 | y | 19:05 | 5.323 | 5 | 0.1296 | - | n |
| 12 | Unk | CL3-PCB-17 | 1 | 7.82e+04 | 0.94 | y | 19:31 | 2.538 | 3 | 0.1534 | - | n |
| 13 | Unk | CL3-PCB-27 | 1 | 1.95e+04 | 0.98 | y | 19:44 | 0.446 | 0 | 0.1083 | - | n |
| 14 | Unk | CL3-PCB-24 | 0 | * | * | n | NotFnd | * | * | 0.1173 | - | n |
| 15 | Unk | CL3-PCB-16 | 1 | 5.25e+04 | 1.18 | y | 19:58 | 1.943 | 2 | 0.1751 | - | y |
| 16 | Unk | CL3-PCB-32 | 1 | 7.72e+04 | 1.06 | y | 20:32 | 1.585 | 2 | 0.1952 | - | n |
| 17 | Unk | CL3-PCB-34 | 0 | * | * | n | NotFnd | * | * | 0.2060 | - | n |
| 18 | Unk | CL3-PCB-23 | 0 | * | * | n | NotFnd | * | * | 0.2184 | - | n |
| 19 | Unk | CL3-PCB-26/29 | 1 | 4.49e+04 | 1.11 | y | 22:18 | 0.947 | 1 | 0.2004 | - | n |
| 20 | Unk | CL3-PCB-25 | 1 | 2.78e+04 | 1.28 | n | 22:33 | 0.518 | 1 | 0.1769 | - | y |
| 21 | Unk | CL3-PCB-31 | 1 | 2.81e+05 | 1.11 | y | 22:53 | 5.654 | 6 | 0.1914 | - | n |
| 22 | Unk | CL3-PCB-28/20 | 1 | 3.22e+05 | 1.15 | y | 23:12 | 6.604 | 7 | 0.1949 | - | n |
| 23 | Unk | CL3-PCB-21/33 | 1 | 1.91e+05 | 1.04 | y | 23:26 | 3.907 | 4 | 0.1944 | - | n |
| 24 | Unk | CL3-PCB-22 | 1 | 1.07e+05 | 0.97 | y | 23:50 | 2.397 | 2 | 0.2133 | - | n |
| 25 | Unk | CL3-PCB-36 | 0 | * | * | n | NotFnd | * | * | 0.1925 | - | n |
| 26 | Unk | CL3-PCB-39 | 0 | * | * | n | NotFnd | * | * | 0.1806 | - | n |
| 27 | Unk | CL3-PCB-38 | 0 | * | * | n | NotFnd | * | * | 0.1923 | - | n |
| 28 | Unk | CL3-PCB-35 | 1 | 2.98e+04 | 1.01 | y | 26:56 | 0.633 | 1 | 0.2022 | - | n |
| 29 | Unk | CL4-PCB-50/53 | 1 | 2.01e+04 | 0.71 | y | 22:35 | 0.654 | 1 | 0.1585 | - | n |
| 30 | Unk | CL4-PCB-45/51 | 1 | 8.86e+04 | 0.92 | n | 23:19 | 2.959 | 3 | 0.1625 | - | y |
| 31 | Unk | CL4-PCB-46 | 1 | 1.34e+04 | 1.61 | n | 23:34 | 0.511 | 1 | 0.1862 | - | n |
| 32 | Unk | CL4-PCB-52 | 1 | 1.54e+05 | 0.81 | y | 25:04 | 4.889 | 5 | 0.1544 | - | n |
| 33 | Unk | CL4-PCB-73 | 0 | * | * | n | NotFnd | * | * | 0.1215 | - | n |
| 34 | Unk | CL4-PCB-43 | 1 | 3.07e+03 | 11.10 | n | 25:23 | 0.137 | 0 | 0.2174 | - | n |
| 35 | Unk | CL4-PCB-69/49 | 1 | 6.99e+04 | 0.88 | y | 25:36 | 2.041 | 2 | 0.1422 | - | y |
| 36 | Unk | CL4-PCB-48 | 1 | 3.19e+04 | 1.15 | n | 25:52 | 1.001 | 1 | 0.1527 | - | n |
| 37 | Unk | CL4-PCB-44/47/65 | 1 | 3.32e+05 | 0.72 | y | 26:08 | 9.899 | 10 | 0.1452 | - | y |
| 38 | Unk | CL4-PCB-59/62/75 | 1 | 1.64e+04 | 0.70 | y | 26:26 | 0.407 | 0 | 0.1209 | - | y |
| 39 | Unk | CL4-PCB-42 | 1 | 2.37e+04 | 1.00 | n | 26:40 | 0.866 | 1 | 0.1778 | - | y |
| 40 | Unk | CL4-PCB-41/40/71 | 1 | 5.03e+04 | 0.73 | y | 27:08 | 1.743 | 2 | 0.1685 | - | y |
| 41 | Unk | CL4-PCB-64 | 1 | 4.94e+04 | 0.76 | y | 27:23 | 1.261 | 1 | 0.1241 | - | n |
| 42 | Unk | CL4-PCB-72 | 0 | * | * | n | NotFnd | * | * | 0.3337 | - | n |
| 43 | Unk | CL4-PCB-68 | 1 | 4.67e+04 | 0.85 | y | 28:35 | 1.084 | 1 | 0.3273 | - | n |
| 44 | Unk | CL4-PCB-57 | 0 | * | * | n | NotFnd | * | * | 0.3305 | - | n |

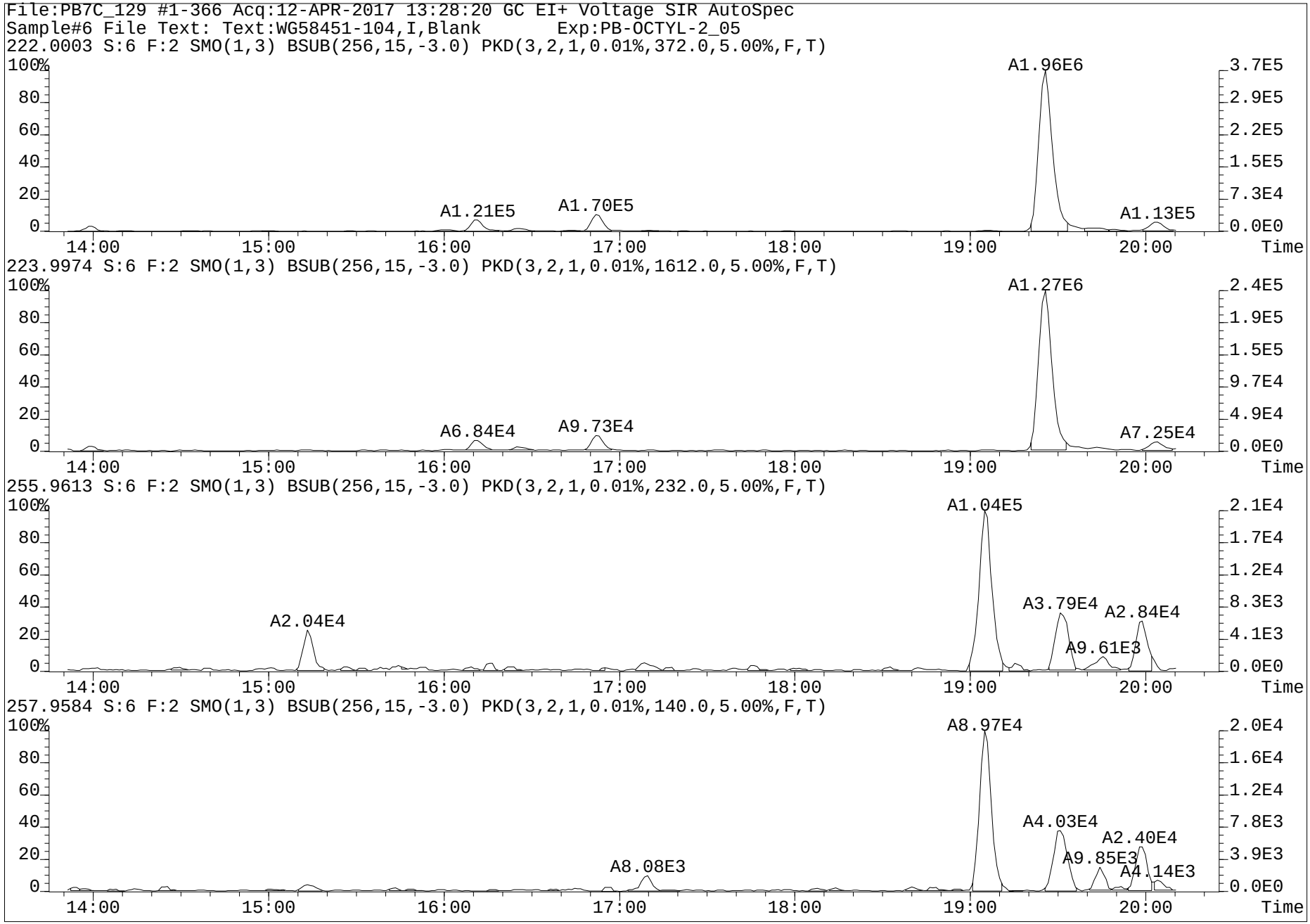
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 0 | * | * | n | NotFnd | * | * | 0.3629 | - | n |
| 46 | Unk | CL4-PCB-67 | 0 | * | * | n | NotFnd | * | * | 0.2963 | - | n |
| 47 | Unk | CL4-PCB-63 | 0 | * | * | n | NotFnd | * | * | 0.3431 | - | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 1 | 1.18e+05 | 0.84 | y | 30:05 | 2.976 | 3 | 0.3560 | - | y |
| 49 | Unk | CL4-PCB-66 | 1 | 5.15e+04 | 0.88 | y | 30:25 | 1.275 | 1 | 0.3493 | - | y |
| 50 | Unk | CL4-PCB-55 | 0 | * | * | n | NotFnd | * | * | 0.3834 | - | n |
| 51 | Unk | CL4-PCB-56 | 1 | 2.54e+04 | 0.71 | y | 31:06 | 0.694 | 1 | 0.3854 | - | y |
| 52 | Unk | CL4-PCB-60 | 1 | 1.88e+04 | 0.68 | y | 31:19 | 0.512 | 1 | 0.3837 | - | y |
| 53 | Unk | CL4-PCB-80 | 0 | * | * | n | NotFnd | * | * | 0.3432 | - | n |
| 54 | Unk | CL4-PCB-79 | 0 | * | * | n | NotFnd | * | * | 0.3195 | - | n |
| 55 | Unk | CL4-PCB-78 | 0 | * | * | n | NotFnd | * | * | 0.3838 | - | n |
| 56 | Unk | CL5-PCB-96 | 0 | * | * | n | NotFnd | * | * | 0.1067 | - | n |
| 57 | Unk | CL5-PCB-103 | 0 | * | * | n | NotFnd | * | * | 0.2812 | - | n |
| 58 | Unk | CL5-PCB-94 | 0 | * | * | n | NotFnd | * | * | 0.3501 | - | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 1 | 5.87e+04 | 1.33 | y | 29:12 | 2.557 | 3 | 0.3159 | - | y |
| 60 | Unk | CL5-PCB-88/91 | 0 | * | * | n | NotFnd | * | * | 0.3320 | - | n |
| 61 | Unk | CL5-PCB-84 | 1 | 1.10e+04 | 1.25 | n | 30:17 | 0.569 | 1 | 0.3737 | - | y |
| 62 | Unk | CL5-PCB-89 | 0 | * | * | n | NotFnd | * | * | 0.3486 | - | n |
| 63 | Unk | CL5-PCB-121 | 0 | * | * | n | NotFnd | * | * | 0.2543 | - | n |
| 64 | Unk | CL5-PCB-92 | 0 | * | * | n | NotFnd | * | * | 0.3319 | - | n |
| 65 | Unk | CL5-PCB-113/90/101 | 1 | 5.51e+04 | 1.84 | n | 32:13 | 2.225 | 2 | 0.2927 | - | y |
| 66 | Unk | CL5-PCB-83/99 | 0 | * | * | n | NotFnd | * | * | 0.3513 | - | n |
| 67 | Unk | CL5-PCB-112 | 0 | * | * | n | NotFnd | * | * | 0.2343 | - | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 1 | 5.89e+04 | 1.26 | n | 33:21 | 2.394 | 2 | 0.2946 | - | y |
| 69 | Unk | CL5-PCB-117/116/85 | 0 | * | * | n | NotFnd | * | * | 0.2848 | - | n |
| 70 | Unk | CL5-PCB-110/115 | 1 | 5.95e+04 | 1.31 | n | 34:16 | 2.060 | 2 | 0.2512 | - | n |
| 71 | Unk | CL5-PCB-82 | 0 | * | * | n | NotFnd | * | * | 0.3765 | - | n |
| 72 | Unk | CL5-PCB-111 | 0 | * | * | n | NotFnd | * | * | 0.2464 | - | n |
| 73 | Unk | CL5-PCB-120 | 0 | * | * | n | NotFnd | * | * | 0.2268 | - | n |
| 74 | Unk | CL5-PCB-108/124 | 0 | * | * | n | NotFnd | * | * | 0.2056 | - | n |
| 75 | Unk | CL5-PCB-107 | 0 | * | * | n | NotFnd | * | * | 0.1913 | - | n |
| 76 | Unk | CL5-PCB-106 | 0 | * | * | n | NotFnd | * | * | 0.1817 | - | n |
| 77 | Unk | CL5-PCB-122 | 0 | * | * | n | NotFnd | * | * | 0.2201 | - | n |
| 78 | Unk | CL5-PCB-127 | 0 | * | * | n | NotFnd | * | * | 0.2181 | - | n |
| 79 | Unk | CL6-PCB-152 | 0 | * | * | n | NotFnd | * | * | 0.1060 | - | n |
| 80 | Unk | CL6-PCB-150 | 0 | * | * | n | NotFnd | * | * | 0.1100 | - | n |
| 81 | Unk | CL6-PCB-136 | 1 | 9.08e+03 | 1.53 | n | 32:43 | 0.313 | 0 | 0.1080 | - | y |
| 82 | Unk | CL6-PCB-145 | 1 | 2.23e+03 | 2.57 | n | 33:04 | 0.082 | 0 | 0.1149 | - | n |
| 83 | Unk | CL6-PCB-148 | 0 | * | * | n | NotFnd | * | * | 0.1472 | - | n |
| 84 | Unk | CL6-PCB-151/135/154 | 1 | 7.34e+03 | 2.67 | n | 35:13 | 0.317 | 0 | 0.1350 | - | y |
| 85 | Unk | CL6-PCB-144 | 1 | 1.64e+03 | 2.26 | n | 35:48 | 0.075 | 0 | 0.1424 | - | n |
| 86 | Unk | CL6-PCB-147/149 | 1 | 1.70e+04 | 0.62 | n | 36:13 | 0.780 | 1 | 0.2095 | - | n |
| 87 | Unk | CL6-PCB-134/143 | 1 | 4.58e+03 | 0.85 | n | 36:25 | 0.243 | 0 | 0.2426 | - | n |
| 88 | Unk | CL6-PCB-139/140 | 0 | * | * | n | NotFnd | * | * | 0.2159 | - | n |
| 89 | Unk | CL6-PCB-131 | 0 | * | * | n | NotFnd | * | * | 0.2488 | - | n |
| 90 | Unk | CL6-PCB-142 | 0 | * | * | n | NotFnd | * | * | 0.2404 | - | n |
| 91 | Unk | CL6-PCB-132 | 0 | * | * | n | NotFnd | * | * | 0.2594 | - | n |
| 92 | Unk | CL6-PCB-133 | 0 | * | * | n | NotFnd | * | * | 0.2423 | - | n |
| 93 | Unk | CL6-PCB-165 | 0 | * | * | n | NotFnd | * | * | 0.1949 | - | n |
| 94 | Unk | CL6-PCB-146 | 1 | 9.01e+03 | 1.22 | y | 38:43 | 0.365 | 0 | 0.1849 | - | y |
| 95 | Unk | CL6-PCB-161 | 0 | * | * | n | NotFnd | * | * | 0.1602 | - | n |
| 96 | Unk | CL6-PCB-153/168 | 1 | 2.62e+04 | 1.53 | n | 39:23 | 1.098 | 1 | 0.1912 | - | y |
| 97 | Unk | CL6-PCB-141 | 1 | 8.57e+03 | 1.97 | n | 39:33 | 0.430 | 0 | 0.2292 | - | y |

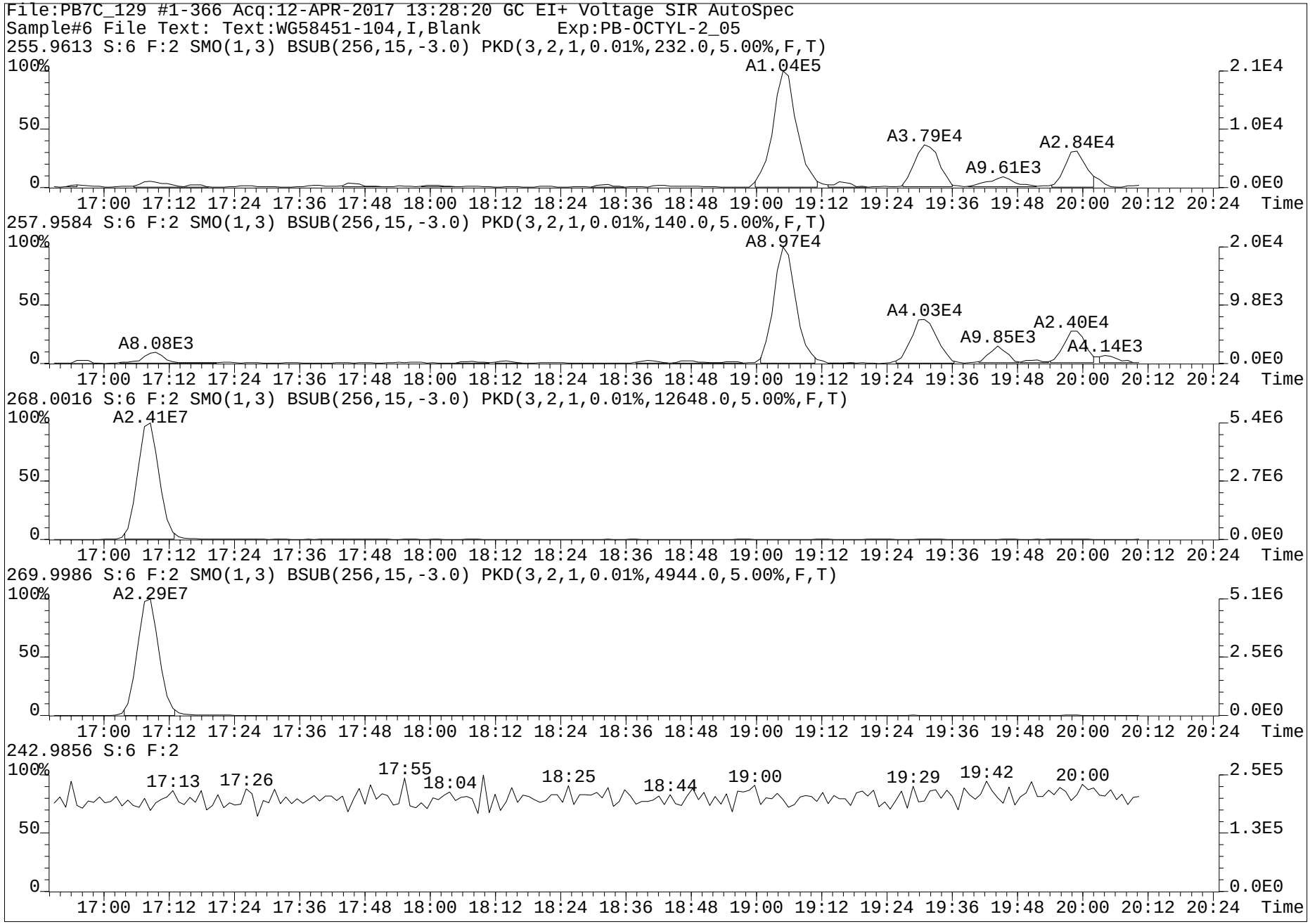
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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 0 | * | * | n | NotFnd | * | * | 0.2648 | - | n |
| 99 | Unk | CL6-PCB-137 | 0 | * | * | n | NotFnd | * | * | 0.2550 | - | n |
| 100 | Unk | CL6-PCB-164 | 0 | * | * | n | NotFnd | * | * | 0.1729 | - | n |
| 101 | Unk | CL6-PCB-138/163/129/160 | 1 | 1.44e+04 | 10.64 | n | 40:51 | 0.670 | 1 | 0.2125 | - | n |
| 102 | Unk | CL6-PCB-158 | 1 | 3.87e+03 | 0.50 | n | 41:07 | 0.139 | 0 | 0.1642 | - | n |
| 103 | Unk | CL6-PCB-128/166 | 1 | 6.80e+03 | 0.41 | n | 42:01 | 0.325 | 0 | 0.2178 | - | n |
| 104 | Unk | CL6-PCB-159 | 0 | * | * | n | NotFnd | * | * | 0.1761 | - | n |
| 105 | Unk | CL6-PCB-162 | 0 | * | * | n | NotFnd | * | * | 0.1747 | - | n |
| 106 | Unk | CL7-PCB-179 | 1 | 4.48e+03 | 1.94 | n | 38:19 | 0.198 | 0 | 0.1652 | - | n |
| 107 | Unk | CL7-PCB-184 | 1 | 1.55e+03 | 1.14 | y | 38:52 | 0.065 | 0 | 0.1562 | - | n |
| 108 | Unk | CL7-PCB-176 | 0 | * | * | n | NotFnd | * | * | 0.1703 | - | n |
| 109 | Unk | CL7-PCB-186 | 0 | * | * | n | NotFnd | * | * | 0.1816 | - | n |
| 110 | Unk | CL7-PCB-178 | 1 | 8.26e+02 | 0.97 | y | 41:08 | 0.053 | 0 | 0.2402 | - | y |
| 111 | Unk | CL7-PCB-175 | 0 | * | * | n | NotFnd | * | * | 0.2352 | - | n |
| 112 | Unk | CL7-PCB-187 | 1 | 4.78e+03 | 0.72 | n | 42:06 | 0.287 | 0 | 0.2239 | - | y |
| 113 | Unk | CL7-PCB-182 | 0 | * | * | n | NotFnd | * | * | 0.1960 | - | n |
| 114 | Unk | CL7-PCB-183/185 | 0 | * | * | n | NotFnd | * | * | 0.2266 | - | n |
| 115 | Unk | CL7-PCB-174 | 0 | * | * | n | NotFnd | * | * | 0.2311 | - | n |
| 116 | Unk | CL7-PCB-177 | 0 | * | * | n | NotFnd | * | * | 0.2123 | - | n |
| 117 | Unk | CL7-PCB-181 | 0 | * | * | n | NotFnd | * | * | 0.2393 | - | n |
| 118 | Unk | CL7-PCB-171/173 | 0 | * | * | n | NotFnd | * | * | 0.2537 | - | n |
| 119 | Unk | CL7-PCB-172 | 0 | * | * | n | NotFnd | * | * | 0.2390 | - | n |
| 120 | Unk | CL7-PCB-192 | 0 | * | * | n | NotFnd | * | * | 0.2041 | - | n |
| 121 | Unk | CL7-PCB-180/193 | 1 | 7.00e+03 | 1.34 | n | 46:30 | 0.414 | 0 | 0.2150 | - | y |
| 122 | Unk | CL7-PCB-191 | 0 | * | * | n | NotFnd | * | * | 0.1883 | - | n |
| 123 | Unk | CL7-PCB-170 | 0 | * | * | n | NotFnd | * | * | 0.2332 | - | n |
| 124 | Unk | CL7-PCB-190 | 0 | * | * | n | NotFnd | * | * | 0.1918 | - | n |
| 125 | Unk | CL8-PCB-201 | 0 | * | * | n | NotFnd | * | * | 0.1683 | - | n |
| 126 | Unk | CL8-PCB-204 | 0 | * | * | n | NotFnd | * | * | 0.1740 | - | n |
| 127 | Unk | CL8-PCB-197/200 | 1 | 2.09e+03 | 0.19 | n | 45:34 | 0.089 | 0 | 0.1430 | - | n |
| 128 | Unk | CL8-PCB-198/199 | 0 | * | * | n | NotFnd | * | * | 0.2464 | - | n |
| 129 | Unk | CL8-PCB-196 | 0 | * | * | n | NotFnd | * | * | 0.2181 | - | n |
| 130 | Unk | CL8-PCB-203 | 0 | * | * | n | NotFnd | * | * | 0.2174 | - | n |
| 131 | Unk | CL8-PCB-195 | 0 | * | * | n | NotFnd | * | * | 0.2430 | - | n |
| 132 | Unk | CL8-PCB-194 | 0 | * | * | n | NotFnd | * | * | 0.2599 | - | n |
| 133 | Unk | CL9-PCB-207 | 0 | * | * | n | NotFnd | * | * | 0.3841 | - | n |
| 134 | IS | 13C-CL1-PCB-1 | 1 | 7.75e+07 | 3.18 | y | 11:30 | 1113.295 | 0 | 2.3204 | 55.7 | n |
| 135 | IS | 13C-CL1-PCB-3 | 1 | 7.79e+07 | 3.13 | y | 13:44 | 1161.618 | 0 | 2.4087 | 58.1 | n |
| 136 | IS | 13C-CL2-PCB-4 | 1 | 5.34e+07 | 1.60 | y | 13:58 | 1206.158 | 0 | 1.1537 | 60.3 | n |
| 137 | IS | 13C-CL2-PCB-15 | 1 | 9.92e+07 | 1.59 | y | 20:03 | 1358.894 | 0 | 0.6999 | 67.9 | n |
| 138 | IS | 13C-CL3-PCB-19 | 1 | 4.70e+07 | 1.05 | y | 17:08 | 1270.315 | 0 | 5.1404 | 63.5 | n |
| 139 | IS | 13C-CL3-PCB-37 | 1 | 8.93e+07 | 1.07 | y | 27:20 | 1438.703 | 0 | 4.0130 | 71.9 | n |
| 140 | REF | 13C-CL4-CHECK | 1 | 6.67e+07 | 0.80 | y | 20:19 | 1331.752 | 0 | 0.3470 | 66.6 | n |
| 141 | IS | 13C-CL4-PCB-81 | 1 | 7.02e+07 | 0.79 | y | 34:23 | 1483.365 | 0 | 0.4106 | 74.2 | n |
| 142 | IS | 13C-CL4-PCB-77 | 1 | 7.12e+07 | 0.79 | y | 34:59 | 1503.905 | 0 | 0.4104 | 75.2 | n |
| 143 | IS | 13C-CL5-PCB-104 | 1 | 5.41e+07 | 1.61 | y | 26:01 | 1349.726 | 0 | 0.0877 | 67.5 | n |
| 144 | IS | 13C-CL5-PCB-123 | 1 | 5.48e+07 | 1.61 | y | 37:04 | 1476.972 | 0 | 2.3825 | 73.8 | n |
| 145 | IS | 13C-CL5-PCB-118 | 1 | 5.46e+07 | 1.58 | y | 37:24 | 1502.932 | 0 | 2.4355 | 75.1 | n |
| 146 | IS | 13C-CL5-PCB-114 | 1 | 5.37e+07 | 1.62 | y | 37:57 | 1510.596 | 0 | 2.4882 | 75.5 | n |
| 147 | IS | 13C-CL5-PCB-105 | 1 | 5.89e+07 | 1.61 | y | 38:37 | 1643.280 | 0 | 2.4658 | 82.2 | n |
| 148 | IS | 13C-CL5-PCB-126 | 1 | 4.99e+07 | 1.60 | y | 41:53 | 1597.412 | 0 | 2.8330 | 79.9 | n |

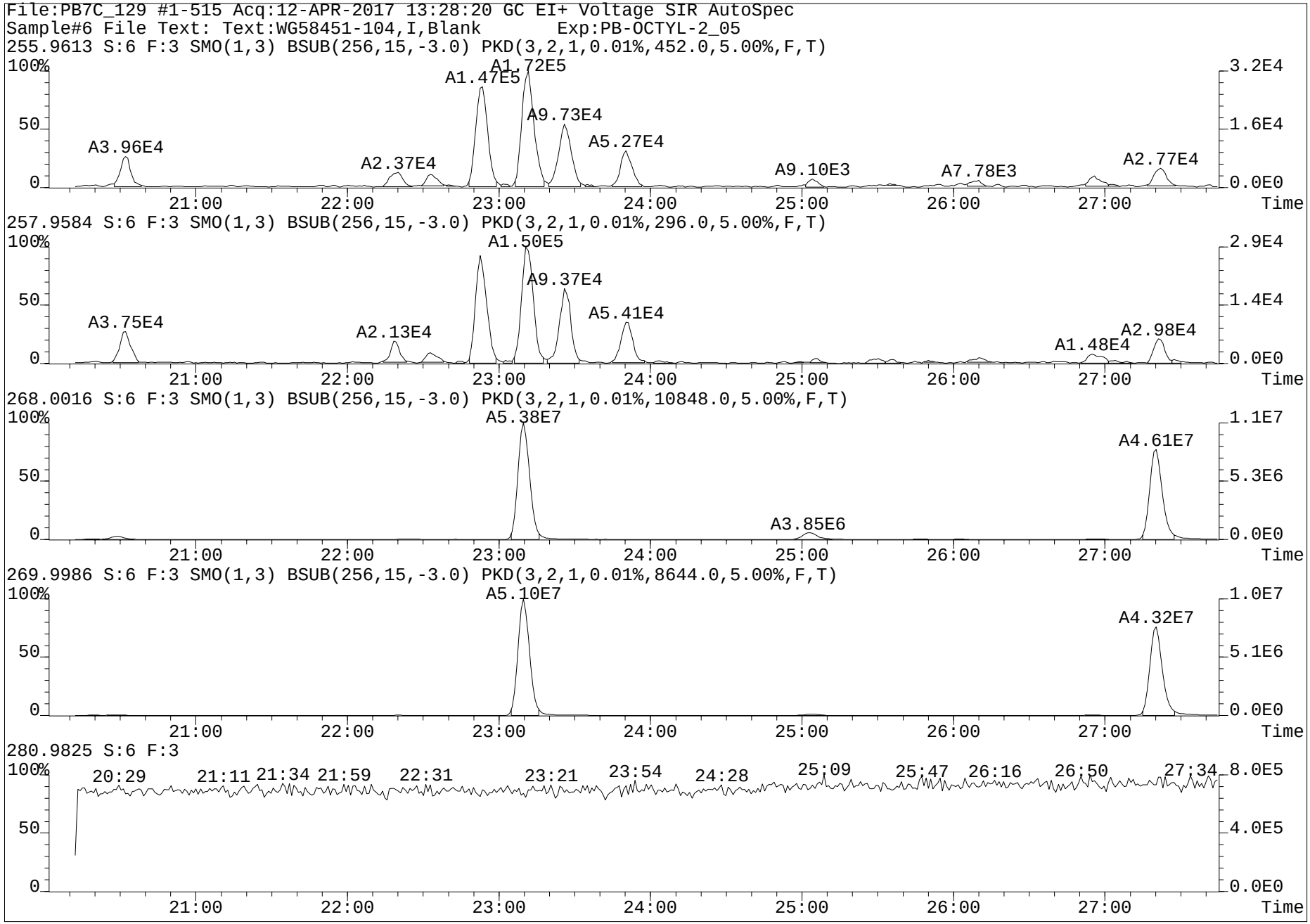
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149 | IS | 13C-CL6-PCB-155 | 1 | 5.32e+07 | 1.27 | y | 31:57 | 1506.542 | 0 | 0.1029 | 75.3 | n |
| 150 | IS | 13C-CL6-PCB-167 | 1 | 4.15e+07 | 1.29 | y | 43:49 | 1552.114 | 0 | 0.1473 | 77.6 | n |
| 151 | IS | 13C-CL6-PCB-156/157 | 1 | 8.76e+07 | 1.24 | y | 45:01 | 3304.187 | 0 | 0.1485 | 82.6 | n |
| 152 | IS | 13C-CL6-PCB-169 | 1 | 4.32e+07 | 1.26 | y | 48:26 | 1644.526 | 0 | 0.1500 | 82.2 | n |
| 153 | IS | 13C-CL7-PCB-188 | 1 | 4.58e+07 | 1.06 | y | 37:56 | 1457.088 | 0 | 0.1169 | 72.9 | n |
| 154 | IS | 13C-CL7-PCB-180 | 1 | 3.48e+07 | 1.05 | y | 46:28 | 1627.959 | 0 | 0.1721 | 81.4 | n |
| 155 | IS | 13C-CL7-PCB-170 | 1 | 2.92e+07 | 1.02 | y | 47:47 | 1675.152 | 0 | 0.2112 | 83.8 | n |
| 156 | IS | 13C-CL8-PCB-202 | 1 | 3.81e+07 | 0.90 | y | 43:33 | 1414.862 | 0 | 0.1250 | 70.7 | n |
| 157 | IS | 13C-CL8-PCB-205 | 1 | 3.78e+07 | 0.91 | y | 53:46 | 1593.338 | 0 | 2.1788 | 79.7 | n |
| 158 | IS | 13C-CL9-PCB-208 | 1 | 3.06e+07 | 0.78 | y | 50:33 | 1336.464 | 0 | 0.5003 | 66.8 | n |
| 159 | IS | 13C-CL9-PCB-206 | 1 | 2.61e+07 | 0.77 | y | 55:35 | 1571.547 | 0 | 0.6893 | 78.6 | n |
| 160 | RS/RT | 13C-CL2-PCB-9 | 1 | 1.45e+08 | 1.60 | y | 16:00 | 130.001 | 0 | - | - | n |
| 161 | RS/RT | 13C-CL4-PCB-52 | 1 | 7.42e+07 | 0.78 | y | 25:03 | 127.607 | 0 | - | - | n |
| 162 | RS/RT | 13C-CL5-PCB-101 | 1 | 5.74e+07 | 1.60 | y | 32:12 | 122.135 | 0 | - | - | n |
| 163 | RS/RT | 13C-CL6-PCB-138 | 1 | 4.58e+07 | 1.29 | y | 40:39 | 116.364 | 0 | - | - | n |
| 164 | RS/RT | 13C-CL8-PCB-194 | 1 | 3.34e+07 | 0.92 | y | 53:16 | 115.441 | 0 | - | - | n |
| 165 | C/Up | 13C-CL3-PCB-28 | 1 | 1.05e+08 | 1.06 | y | 23:10 | 1603.250 | 0 | 3.8113 | 80.2 | n |
| 166 | C/Up | 13C-CL5-PCB-111 | 1 | 5.59e+07 | 1.61 | y | 35:01 | 1560.970 | 0 | 0.2156 | 78.0 | n |
| 167 | C/UP | 13C-CL7-PCB-178 | 1 | 3.47e+07 | 1.03 | y | 41:08 | 1711.243 | 0 | 0.1788 | 85.6 | n |
| 168 | IS | 13C-CL4-PCB-54 | 1 | 6.67e+07 | 0.80 | y | 20:19 | 1331.752 | 0 | 0.3470 | 66.6 | n |
| 169 | Unk | CL7-PCB-189 | 0 | * | * | n | NotFnd | * | * | 0.2959 | - | n |
| 170 | IS | 13C-CL7-PCB-189 | 1 | 4.43e+07 | 1.07 | y | 51:05 | 1536.118 | 0 | 1.9354 | 76.8 | n |
| 171 | Unk | CL10-PCB-209 | 1 | 1.15e+04 | 1.33 | y | 57:16 | 0.727 | 0 | 0.2362 | - | y |
| 172 | IS | 13C-CL10-PCB-209 | 1 | 3.03e+07 | 1.18 | y | 57:15 | 1493.953 | 0 | 0.1875 | 74.7 | n |
| 173 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 174 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 175 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 176 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 177 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 178 | LM | CL4-LOCK | - | - | | | - | - | - | - | - | n |
| 179 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 180 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 181 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 182 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 183 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 184 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 185 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 186 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 187 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 188 | LM | CL9-LOCK | - | - | | | - | - | - | - | - | n |
| 189 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

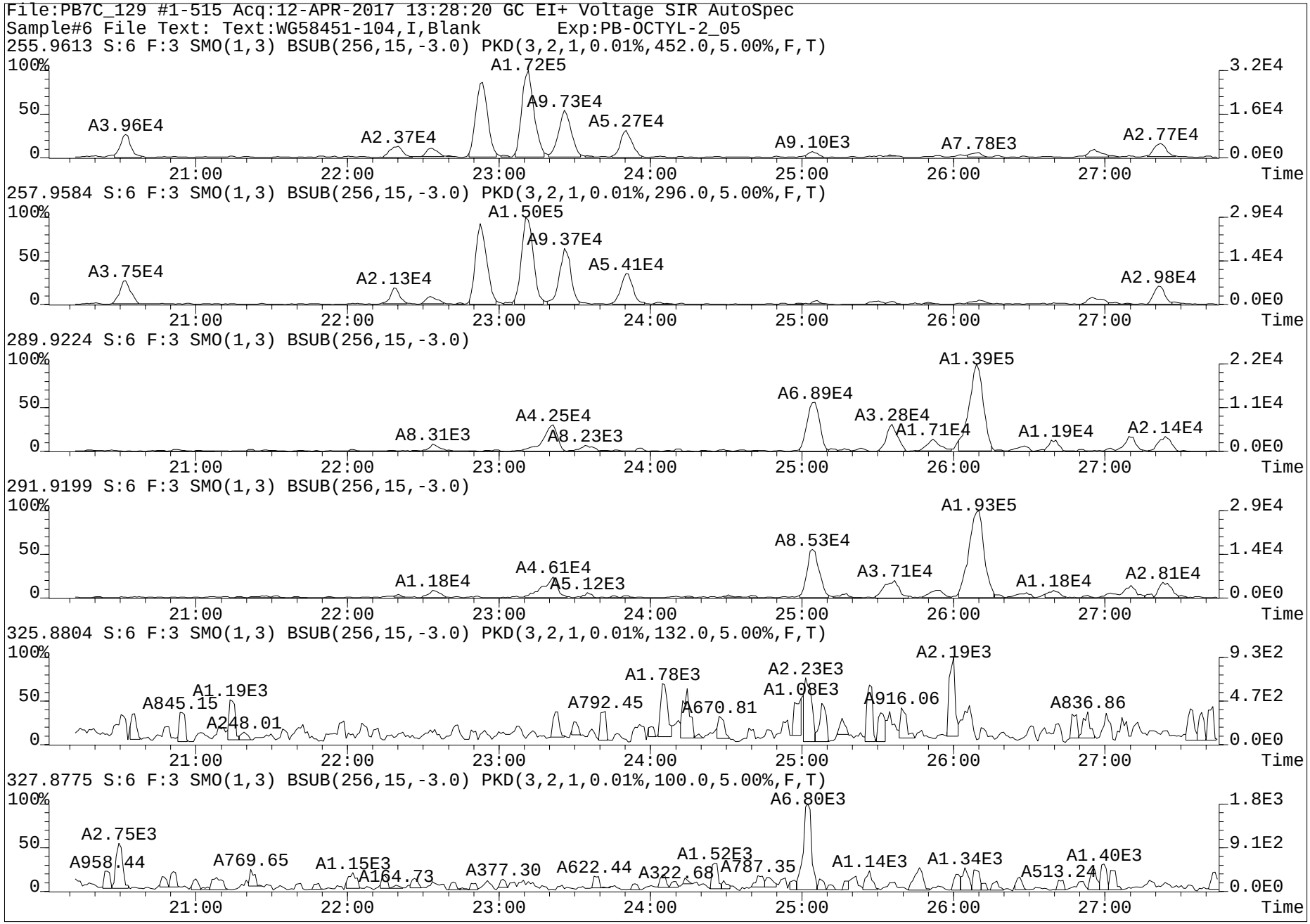

File:PB7C_129 #1-184 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
188.0393 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,452.0,5.00%,F,T)
A9.92E4
A5.52E3
A4.94E4
A5.68E4
A1.06E5
190.0363 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,316.0,5.00%,F,T)
A3.54E4
A2.66E3
A3.69E3
A2.09E4
A3.02E4
200.0795 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1764.0,5.00%,F,T)
A5.89E7
A5.90E7
202.0766 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,13160.0,5.00%,F,T)
A1.85E7
A1.88E7
218.9856 S:6
11:13
11:34
11:49
12:11
12:27
12:44
13:01
13:35
13:46
Time

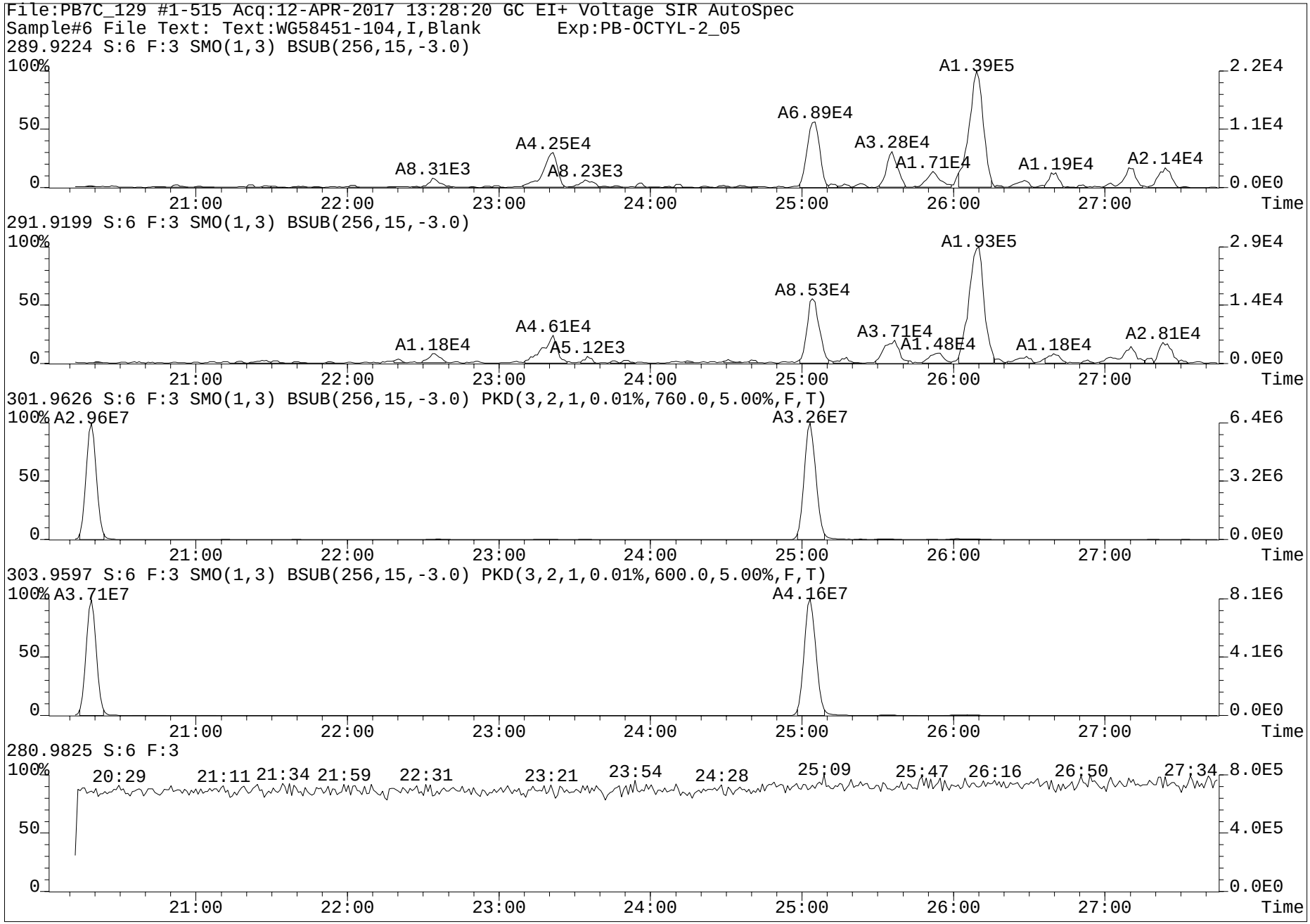

File:PB7C_129 #1-366 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,372.0,5.00%,F,T)
A1.96E6
A1.21E5
A1.70E5
A1.13E5
223.9974 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1612.0,5.00%,F,T)
A1.27E6
A6.84E4
A9.73E4
A7.25E4
234.0406 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3320.0,5.00%,F,T)
A8.90E7
A6.09E7
236.0376 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1404.0,5.00%,F,T)
A5.55E7
A3.83E7
242.9856 S:6 F:2
14:02
14:38
15:18
16:11
16:54
17:02
17:26
17:55
18:04
18:25
19:00
19:42
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time

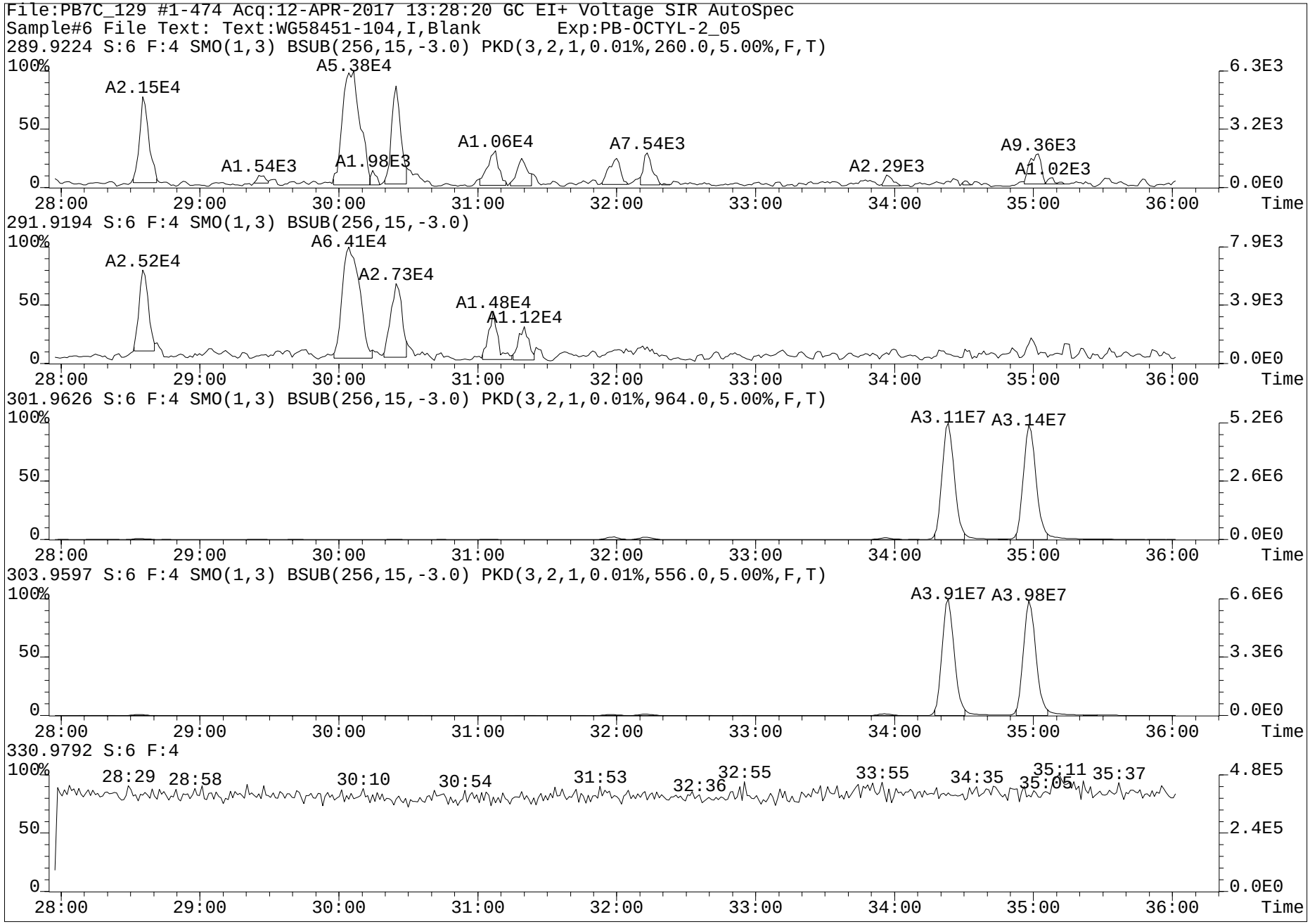

File:PB7C_129 #1-366 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
222.0003 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,372.0,5.00%,F,T)
A1.96E6
A1.21E5
A1.70E5
A1.13E5
223.9974 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1612.0,5.00%,F,T)
A1.27E6
A6.84E4
A9.73E4
A7.25E4
255.9613 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.04E5
A2.04E4
A3.79E4
A2.84E4
A9.61E3
257.9584 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A8.97E4
A4.03E4
A2.40E4
A9.85E3
A8.08E3
A4.14E3
Time

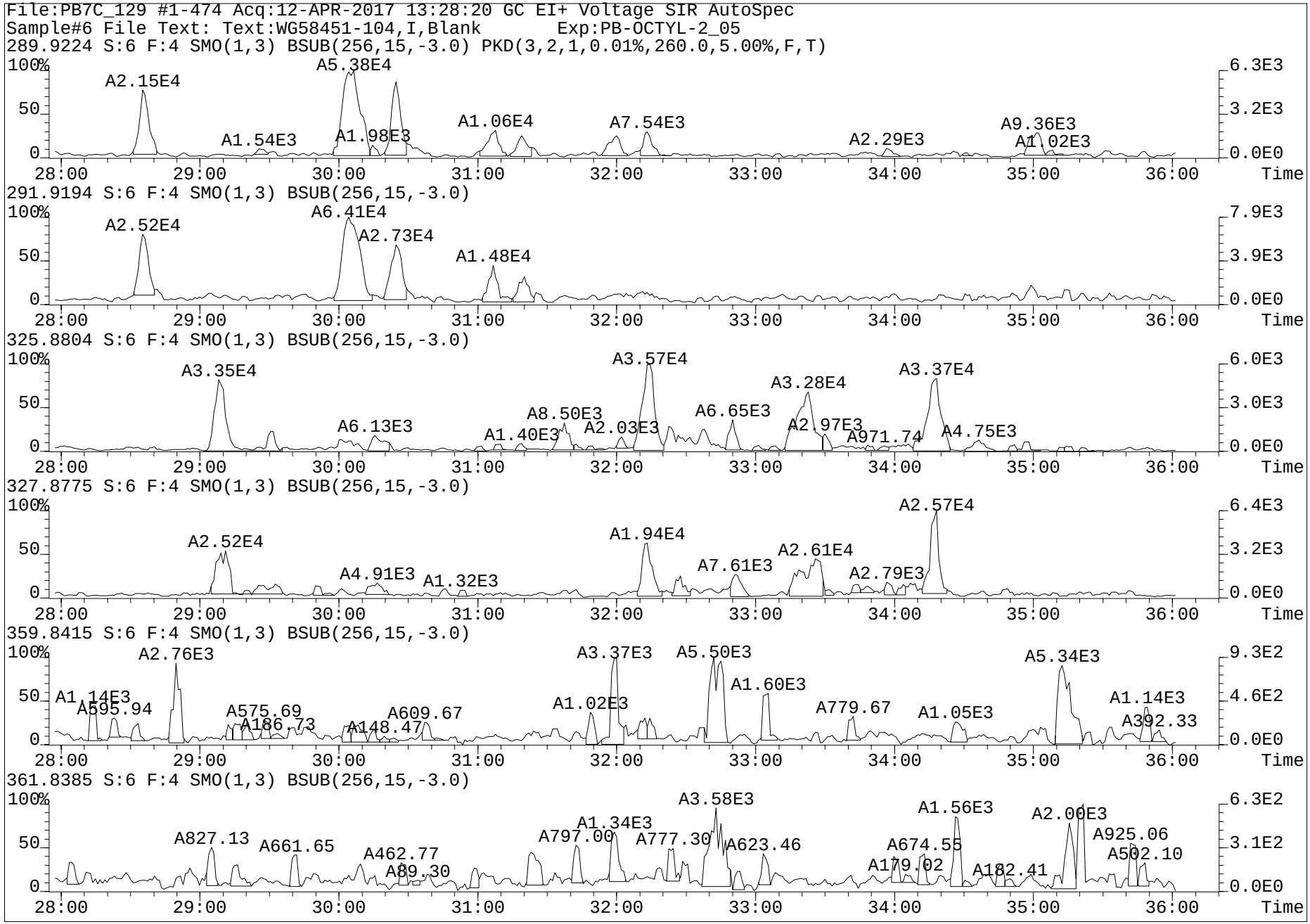

File:PB7C_129 #1-366 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.04E5
A3.79E4
A2.84E4
A9.61E3
257.9584 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A8.97E4
A4.03E4
A2.40E4
A9.85E3
A8.08E3
A4.14E3
268.0016 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12648.0,5.00%,F,T)
A2.41E7
269.9986 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4944.0,5.00%,F,T)
A2.29E7
242.9856 S:6 F:2
17:13
17:26
17:55
18:04
18:25
18:44
19:00
19:29
19:42
20:00
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

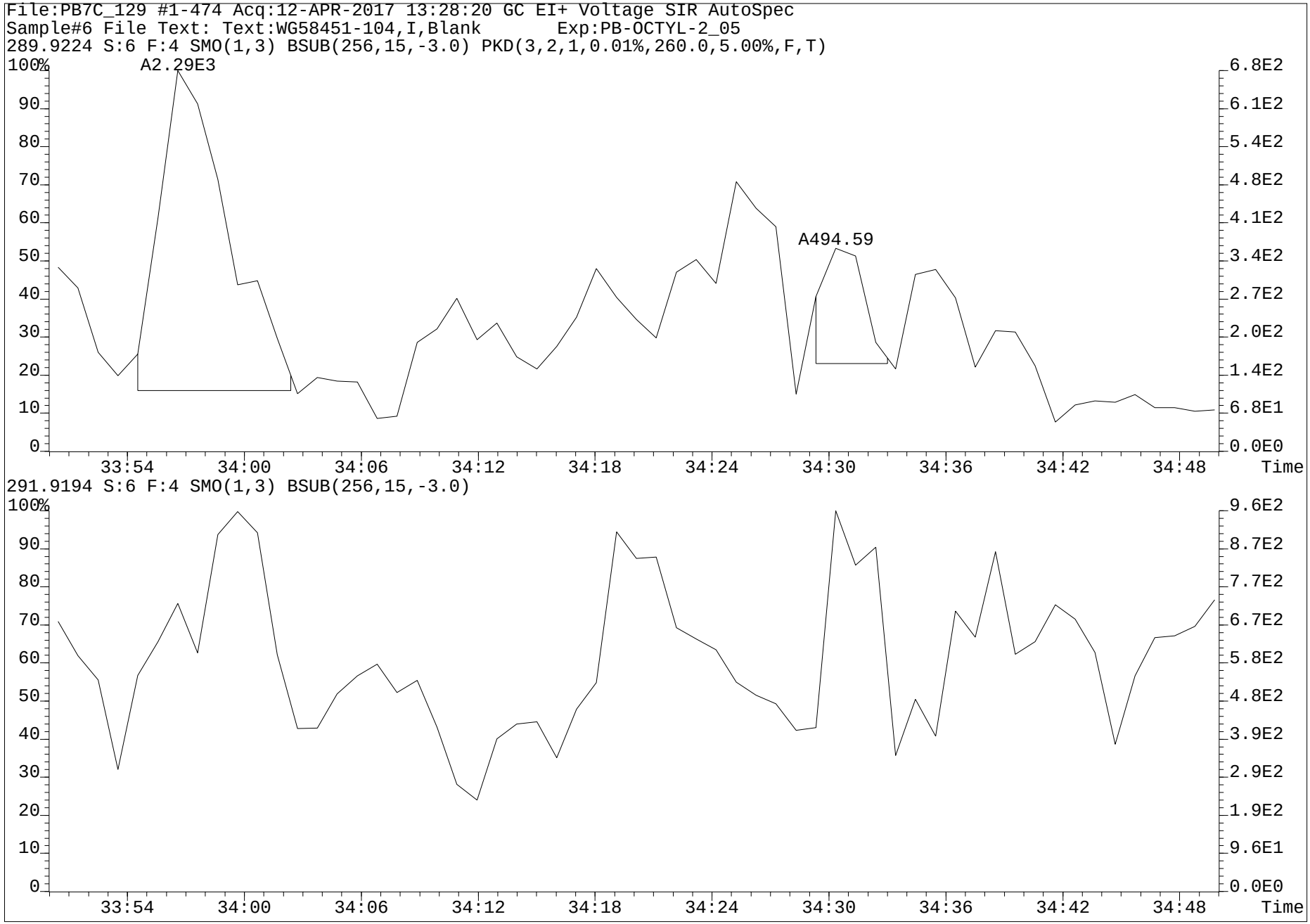

File:PB7C_129 #1-515 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,452.0,5.00%,F,T)
A3.96E4
A2.37E4
A1.47E5
A1.72E5
A9.73E4
A5.27E4
A9.10E3
A7.78E3
A2.77E4
257.9584 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,296.0,5.00%,F,T)
A3.75E4
A2.13E4
A1.50E5
A9.37E4
A5.41E4
A1.48E4
A2.98E4
268.0016 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10848.0,5.00%,F,T)
A5.38E7
A3.85E6
A4.61E7
269.9986 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8644.0,5.00%,F,T)
A5.10E7
A4.32E7
280.9825 S:6 F:3
20:29
21:11
21:34
21:59
22:31
23:21
23:54
24:28
25:09
25:47
26:16
26:50
27:34
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
3.2E4
1.6E4
0.0E0
2.9E4
1.4E4
1.1E7
5.3E6
1.0E7
5.1E6
8.0E5
4.0E5

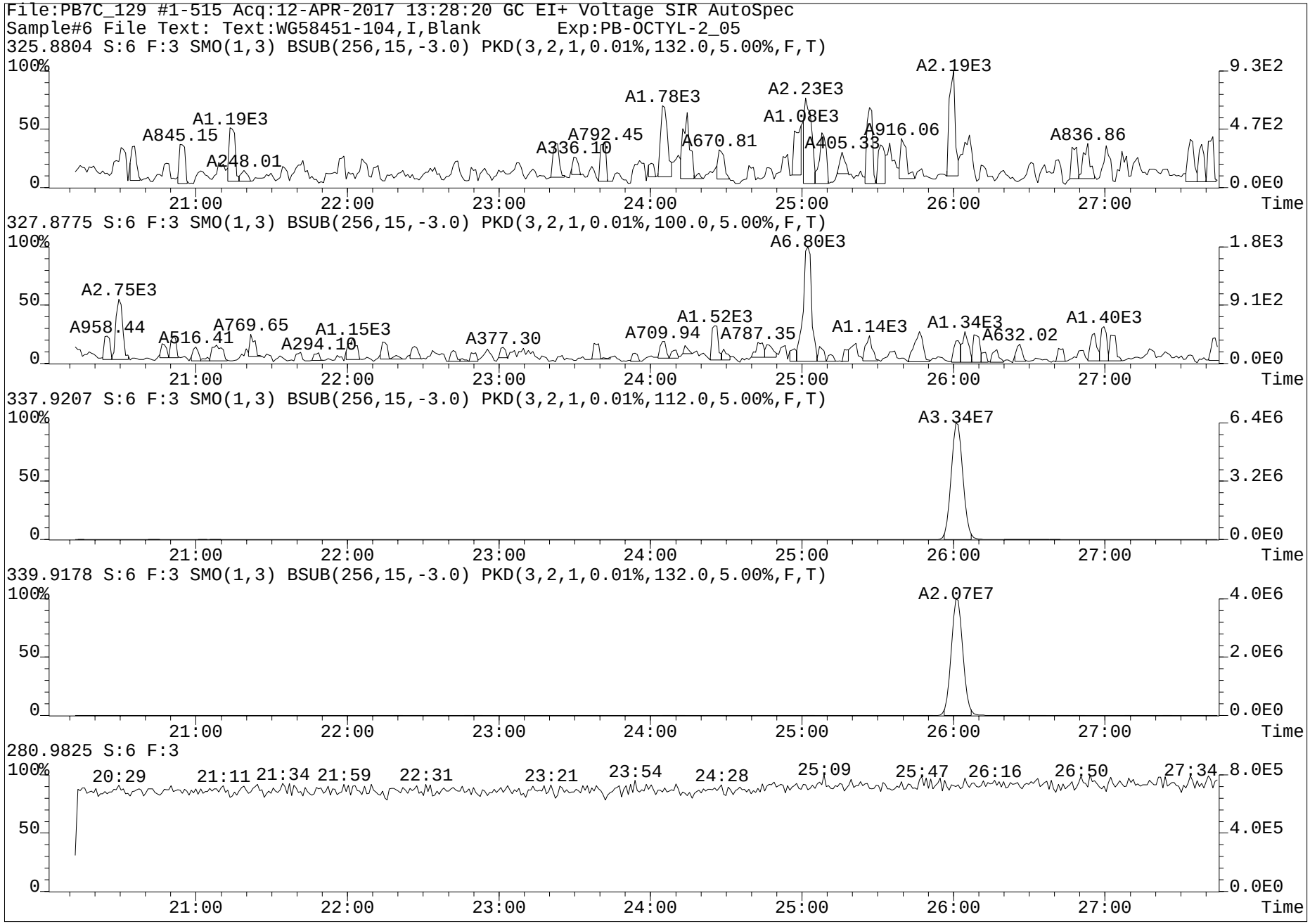

File:PB7C_129 #1-515 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
255.9613 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,452.0,5.00%,F,T)
A1.72E5
A9.73E4
A5.27E4
A3.96E4
A2.37E4
A9.10E3
A7.78E3
A2.77E4
257.9584 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,296.0,5.00%,F,T)
A1.50E5
A9.37E4
A5.41E4
A3.75E4
A2.13E4
A2.98E4
289.9224 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.39E5
A6.89E4
A4.25E4
A3.28E4
A8.31E3
A8.23E3
A1.71E4
A1.19E4
A2.14E4
291.9199 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.93E5
A8.53E4
A4.61E4
A3.71E4
A1.18E4
A5.12E3
A1.18E4
A2.81E4
325.8804 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.19E3
A1.78E3
A2.23E3
A1.19E3
A1.08E3
A845.15
A792.45
A670.81
A916.06
A836.86
A248.01
327.8775 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A6.80E3
A2.75E3
A958.44
A769.65
A1.15E3
A1.52E3
A1.14E3
A1.34E3
A1.40E3
A164.73
A377.30
A622.44
A322.68
A787.35
A513.24
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

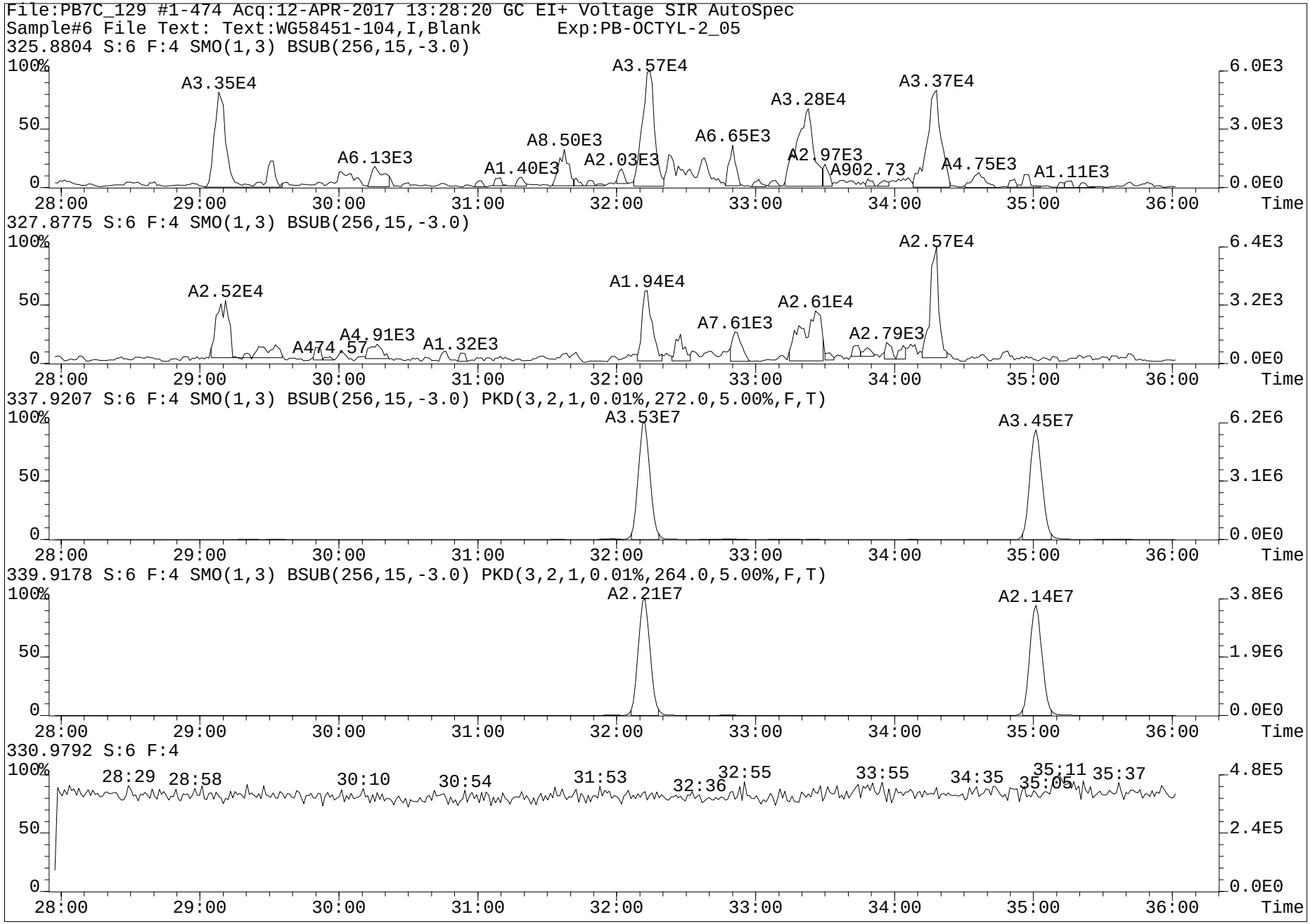

File:PB7C_129 #1-515 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.39E5
A6.89E4
A4.25E4
A3.28E4
A8.31E3
A8.23E3
A1.71E4
A1.19E4
A2.14E4
291.9199 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.93E5
A8.53E4
A4.61E4
A3.71E4
A1.18E4
A5.12E3
A1.48E4
A1.18E4
A2.81E4
301.9626 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,760.0,5.00%,F,T)
A2.96E7
A3.26E7
303.9597 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,600.0,5.00%,F,T)
A3.71E7
A4.16E7
280.9825 S:6 F:3
20:29
21:11
21:34
21:59
22:31
23:21
23:54
24:28
25:09
25:47
26:16
26:50
27:34
Time

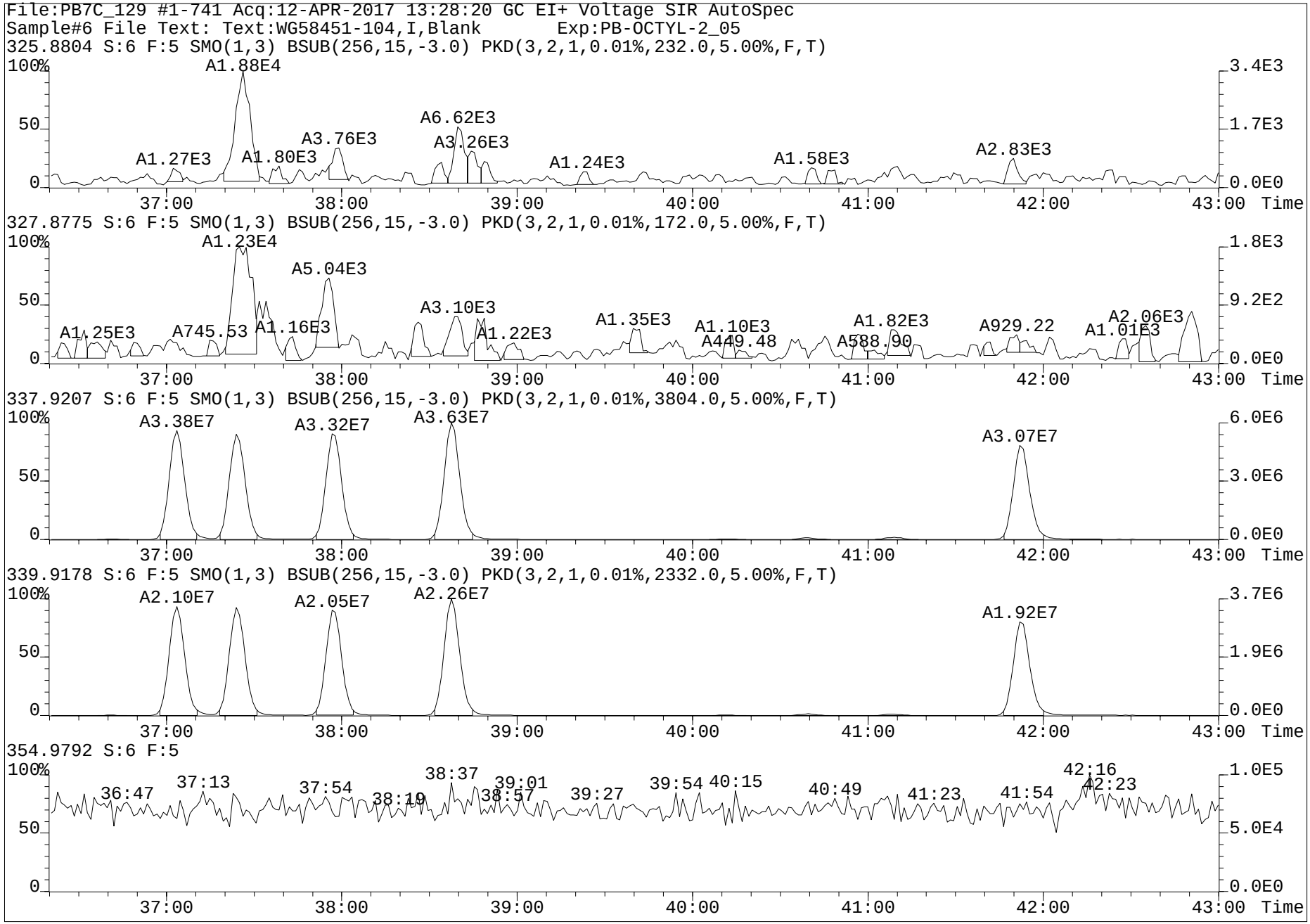

File:PB7C_129 #1-474 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,260.0,5.00%,F,T)
A2.15E4
A5.38E4
A1.54E3
A1.98E3
A1.06E4
A7.54E3
A2.29E3
A9.36E3
A1.02E3
291.9194 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.52E4
A6.41E4
A2.73E4
A1.48E4
A1.12E4
301.9626 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,964.0,5.00%,F,T)
A3.11E7
A3.14E7
303.9597 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,556.0,5.00%,F,T)
A3.91E7
A3.98E7
330.9792 S:6 F:4
28:29
28:58
30:10
30:54
31:53
32:36
32:55
33:55
34:35
35:05
35:11
35:37
100%
50
0
6.3E3
3.2E3
0.0E0
7.9E3
3.9E3
5.2E6
2.6E6
6.6E6
3.3E6
4.8E5
2.4E5
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time

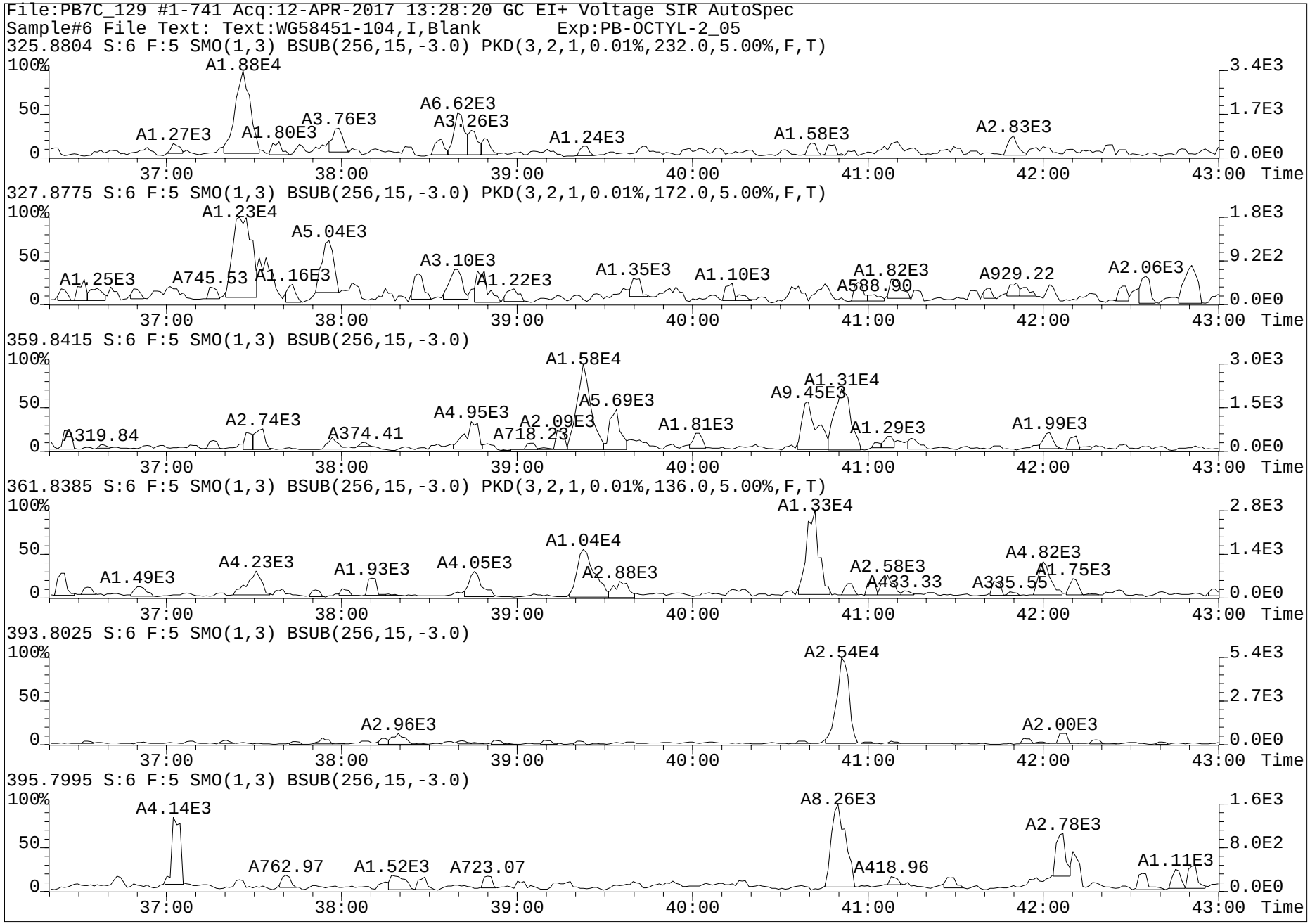

File:PB7C_129 #1-474 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,260.0,5.00%,F,T)
A2.15E4
A5.38E4
A1.54E3
A1.98E3
A1.06E4
A7.54E3
A2.29E3
A9.36E3
A1.02E3
291.9194 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.52E4
A6.41E4
A2.73E4
A1.48E4
325.8804 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.35E4
A3.57E4
A3.28E4
A3.37E4
A6.13E3
A8.50E3
A1.40E3
A2.03E3
A6.65E3
A2.97E3
A971.74
A4.75E3
327.8775 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.52E4
A2.57E4
A1.94E4
A4.91E3
A1.32E3
A7.61E3
A2.61E4
A2.79E3
359.8415 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.76E3
A3.37E3
A5.50E3
A5.34E3
A1.14E3
A595.94
A575.69
A186.73
A148.47
A609.67
A1.02E3
A1.60E3
A779.67
A1.05E3
A1.14E3
A392.33
361.8385 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.58E3
A827.13
A661.65
A462.77
A89.30
A1.34E3
A797.00
A777.30
A623.46
A1.56E3
A2.00E3
A925.06
A674.55
A179.02
A182.41
A502.10
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
6.3E3
3.2E3
0.0E0
7.9E3
3.9E3
6.0E3
3.0E3
6.4E3
3.2E3
9.3E2
4.6E2
6.3E2
3.1E2

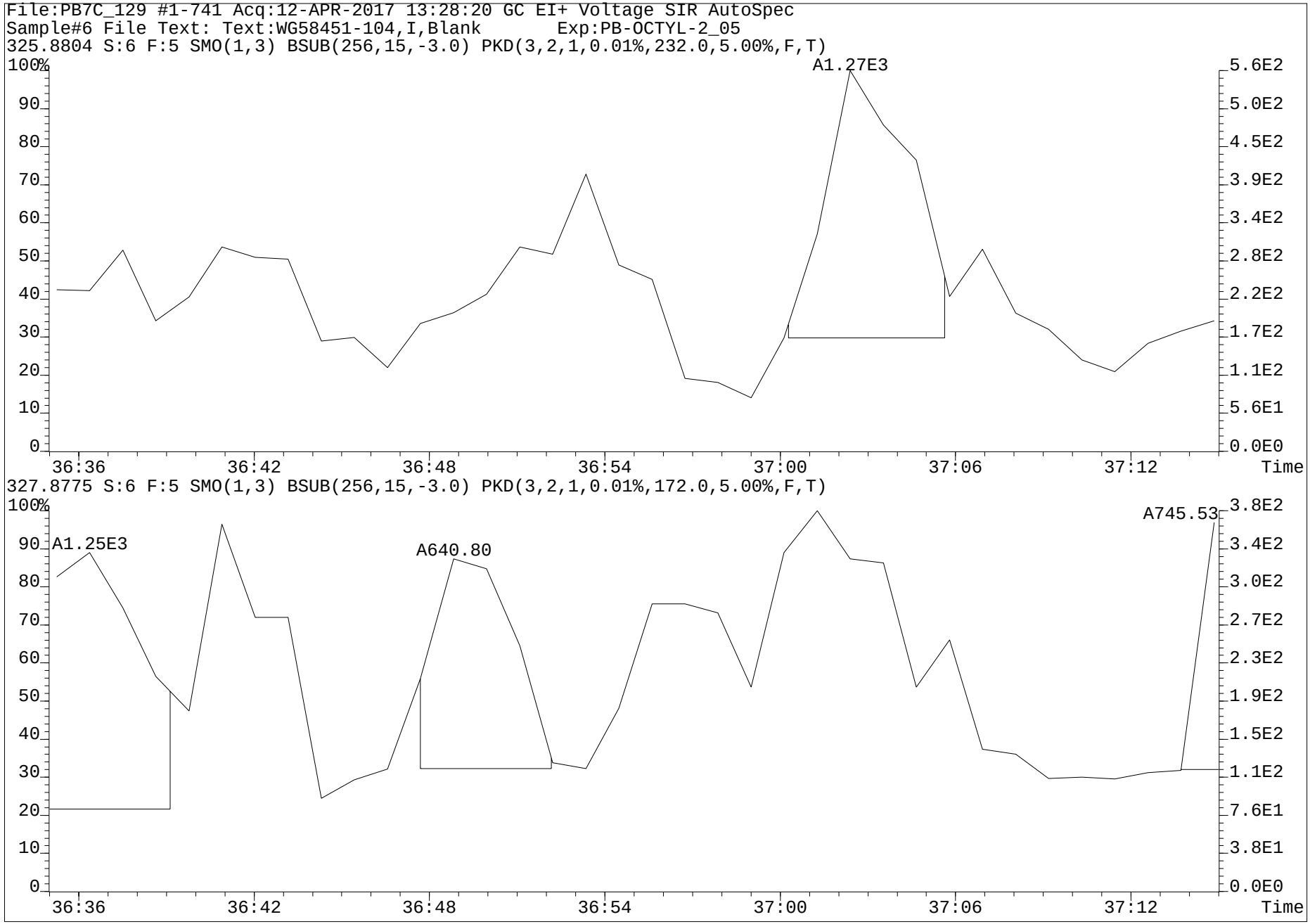

File:PB7C_129 #1-474 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
289.9224 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,260.0,5.00%,F,T)
A2.29E3
A494.59
100%
90
80
70
60
50
40
30
20
10
0
6.8E2
6.1E2
5.4E2
4.8E2
4.1E2
3.4E2
2.7E2
2.0E2
1.4E2
6.8E1
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time
291.9194 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
9.6E2
8.7E2
7.7E2
6.7E2
5.8E2
4.8E2
3.9E2
2.9E2
1.9E2
9.6E1
0.0E0
33:54
34:00
34:06
34:12
34:18
34:24
34:30
34:36
34:42
34:48
Time

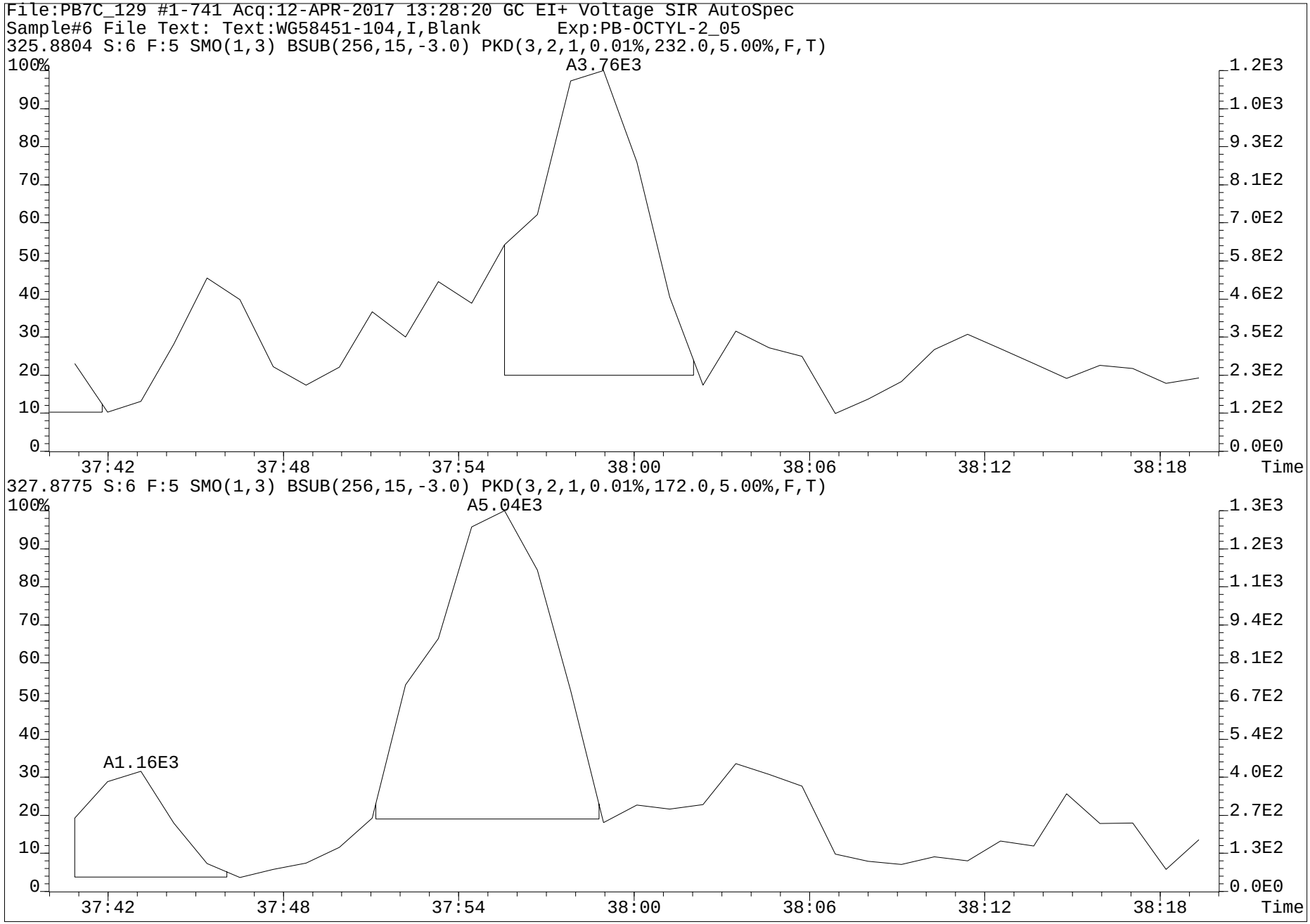

File:PB7C_129 #1-515 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.19E3
A1.78E3
A2.23E3
A1.19E3
A1.08E3
A845.15
A792.45
A916.06
A836.86
A336.10
A670.81
A405.33
A248.01
327.8775 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A6.80E3
A2.75E3
A1.52E3
A1.40E3
A1.34E3
A1.14E3
A1.15E3
A958.44
A769.65
A516.41
A294.10
A377.30
A709.94
A787.35
A632.02
337.9207 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A3.34E7
339.9178 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.07E7
280.9825 S:6 F:3
20:29
21:11
21:34
21:59
22:31
23:21
23:54
24:28
25:09
25:47
26:16
26:50
27:34
100%
50
0
9.3E2
4.7E2
0.0E0
1.8E3
9.1E2
6.4E6
3.2E6
4.0E6
2.0E6
8.0E5
4.0E5
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

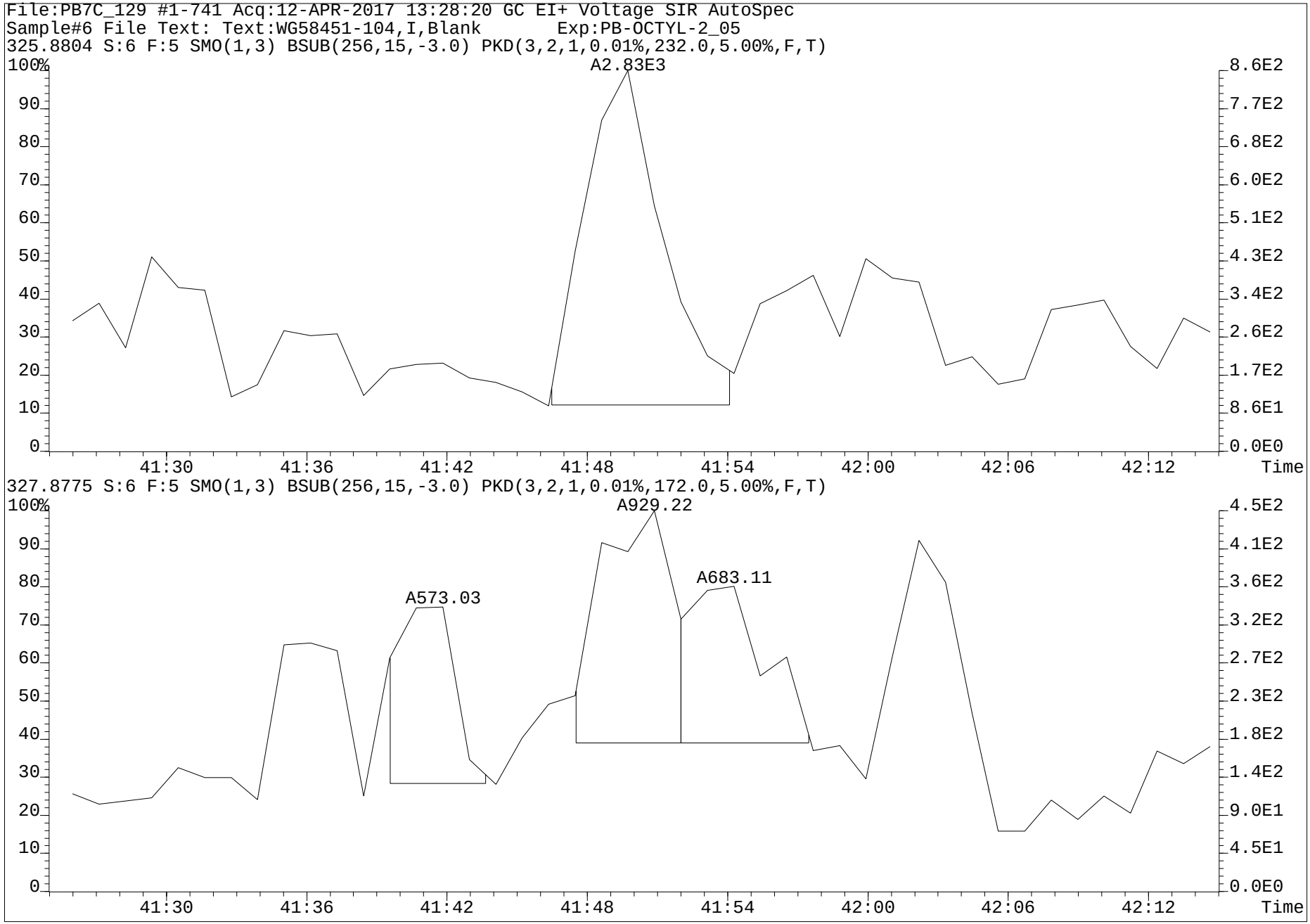

File:PB7C_129 #1-474 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.35E4
A6.13E3
A1.40E3
A8.50E3
A2.03E3
A3.57E4
A6.65E3
A3.28E4
A2.97E3
A902.73
A3.37E4
A4.75E3
A1.11E3
327.8775 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.52E4
A474.57
A4.91E3
A1.32E3
A1.94E4
A7.61E3
A2.61E4
A2.79E3
A2.57E4
337.9207 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,272.0,5.00%,F,T)
A3.53E7
A3.45E7
339.9178 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,264.0,5.00%,F,T)
A2.21E7
A2.14E7
330.9792 S:6 F:4
28:29
28:58
30:10
30:54
31:53
32:36
32:55
33:55
34:35
35:05
35:11
35:37
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
6.0E3
3.0E3
0.0E0
6.4E3
3.2E3
6.2E6
3.1E6
3.8E6
1.9E6
4.8E5
2.4E5

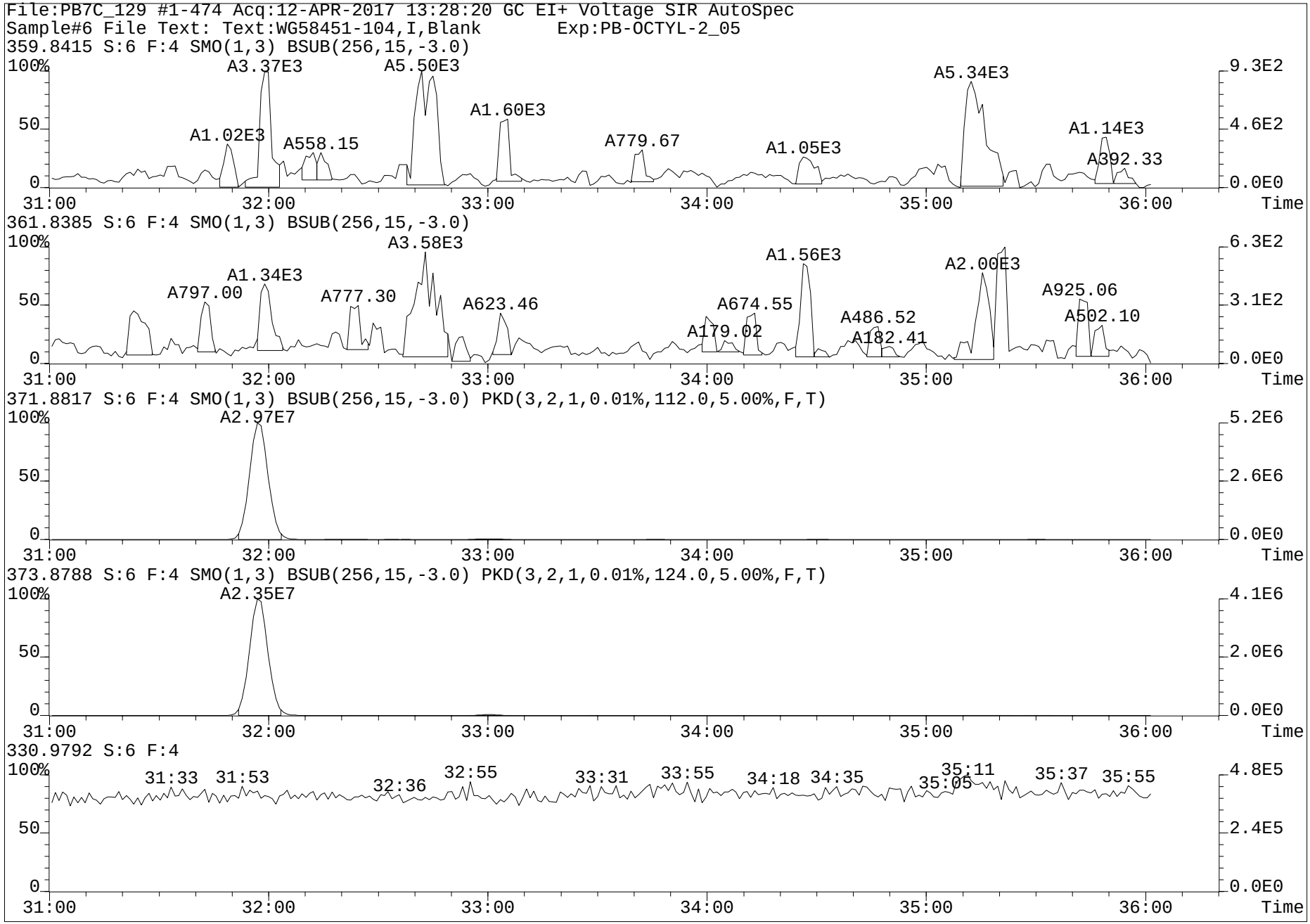

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.88E4
A6.62E3
A3.76E3
A3.26E3
A1.27E3
A1.80E3
A1.24E3
A1.58E3
A2.83E3
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A1.23E4
A5.04E3
A3.10E3
A1.25E3
A745.53
A1.16E3
A1.22E3
A1.35E3
A1.10E3
A449.48
A1.82E3
A588.90
A929.22
A1.01E3
A2.06E3
337.9207 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3804.0,5.00%,F,T)
A3.38E7
A3.32E7
A3.63E7
A3.07E7
339.9178 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2332.0,5.00%,F,T)
A2.10E7
A2.05E7
A2.26E7
A1.92E7
354.9792 S:6 F:5
36:47
37:13
37:54
38:19
38:37
38:57
39:01
39:27
39:54
40:15
40:49
41:23
41:54
42:16
42:23
Time

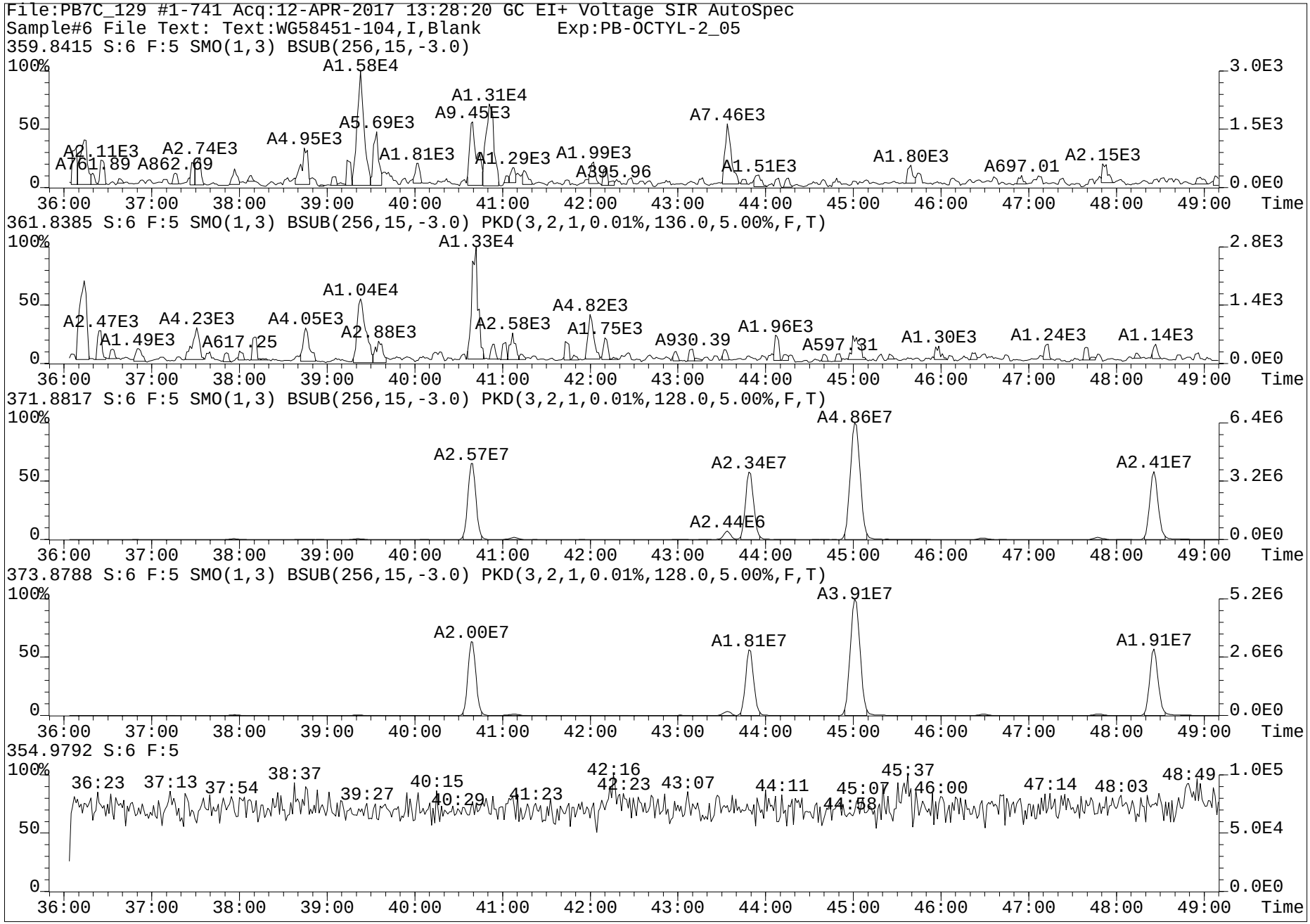

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.88E4
A6.62E3
A3.76E3
A3.26E3
A1.27E3
A1.80E3
A1.24E3
A1.58E3
A2.83E3
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A1.23E4
A5.04E3
A3.10E3
A1.25E3
A745.53
A1.16E3
A1.22E3
A1.35E3
A1.10E3
A1.82E3
A588.90
A929.22
A2.06E3
359.8415 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.58E4
A1.31E4
A9.45E3
A5.69E3
A4.95E3
A2.74E3
A2.09E3
A319.84
A374.41
A718.23
A1.81E3
A1.29E3
A1.99E3
361.8385 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.33E4
A1.04E4
A4.23E3
A1.93E3
A4.05E3
A1.49E3
A2.88E3
A2.58E3
A4.82E3
A433.33
A335.55
A1.75E3
393.8025 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.54E4
A2.96E3
A2.00E3
395.7995 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A8.26E3
A4.14E3
A2.78E3
A762.97
A1.52E3
A723.07
A418.96
A1.11E3
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
3.4E3
1.7E3
0.0E0
1.8E3
9.2E2
3.0E3
1.5E3
2.8E3
1.4E3
5.4E3
2.7E3
1.6E3
8.0E2

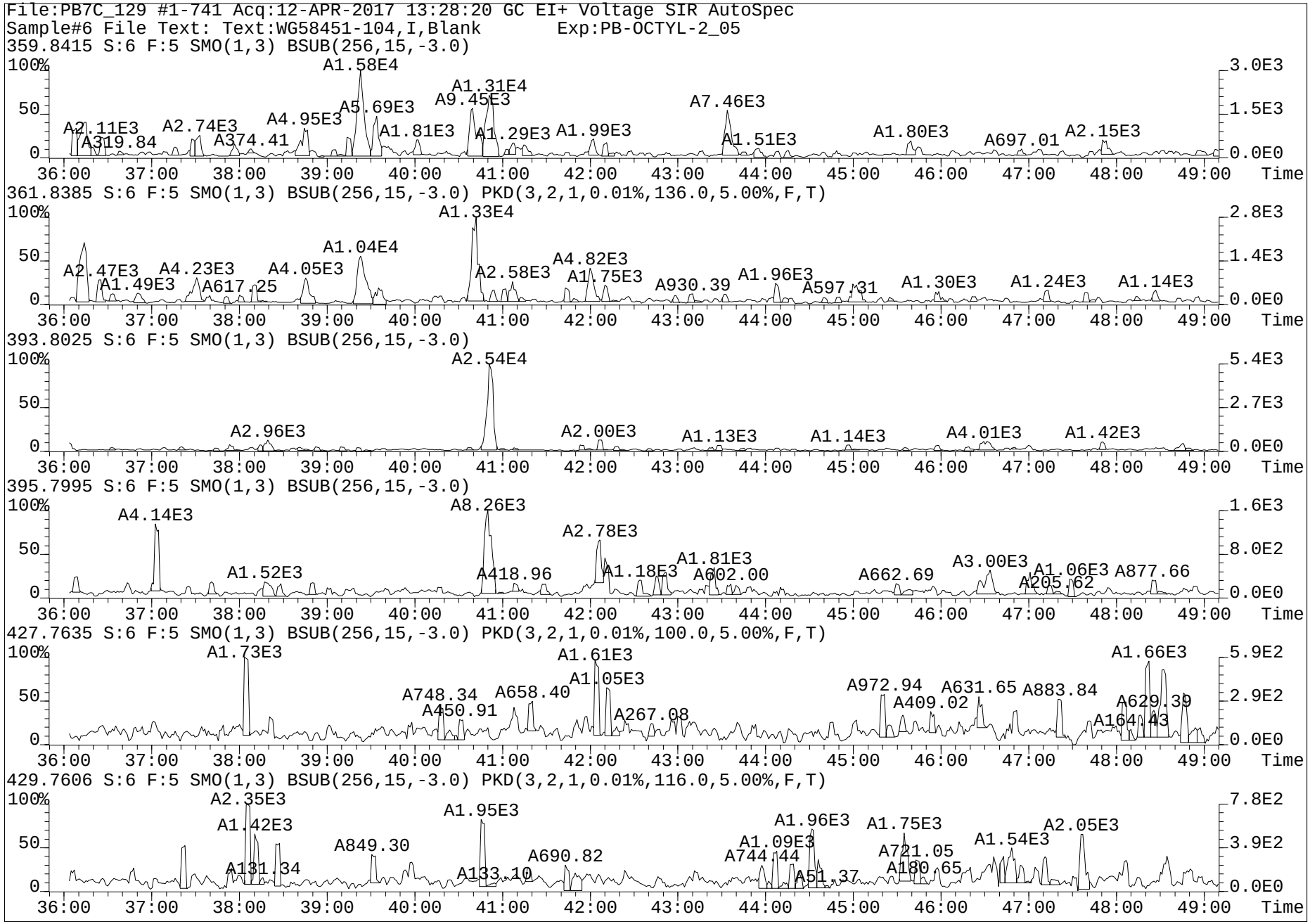

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.27E3
100%
90
80
70
60
50
40
30
20
10
0
5.6E2
5.0E2
4.5E2
3.9E2
3.4E2
2.8E2
2.2E2
1.7E2
1.1E2
5.6E1
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A1.25E3
A640.80
A745.53
100%
90
80
70
60
50
40
30
20
10
0
3.8E2
3.4E2
3.0E2
2.7E2
2.3E2
1.9E2
1.5E2
1.1E2
7.6E1
3.8E1
0.0E0
36:36
36:42
36:48
36:54
37:00
37:06
37:12
Time

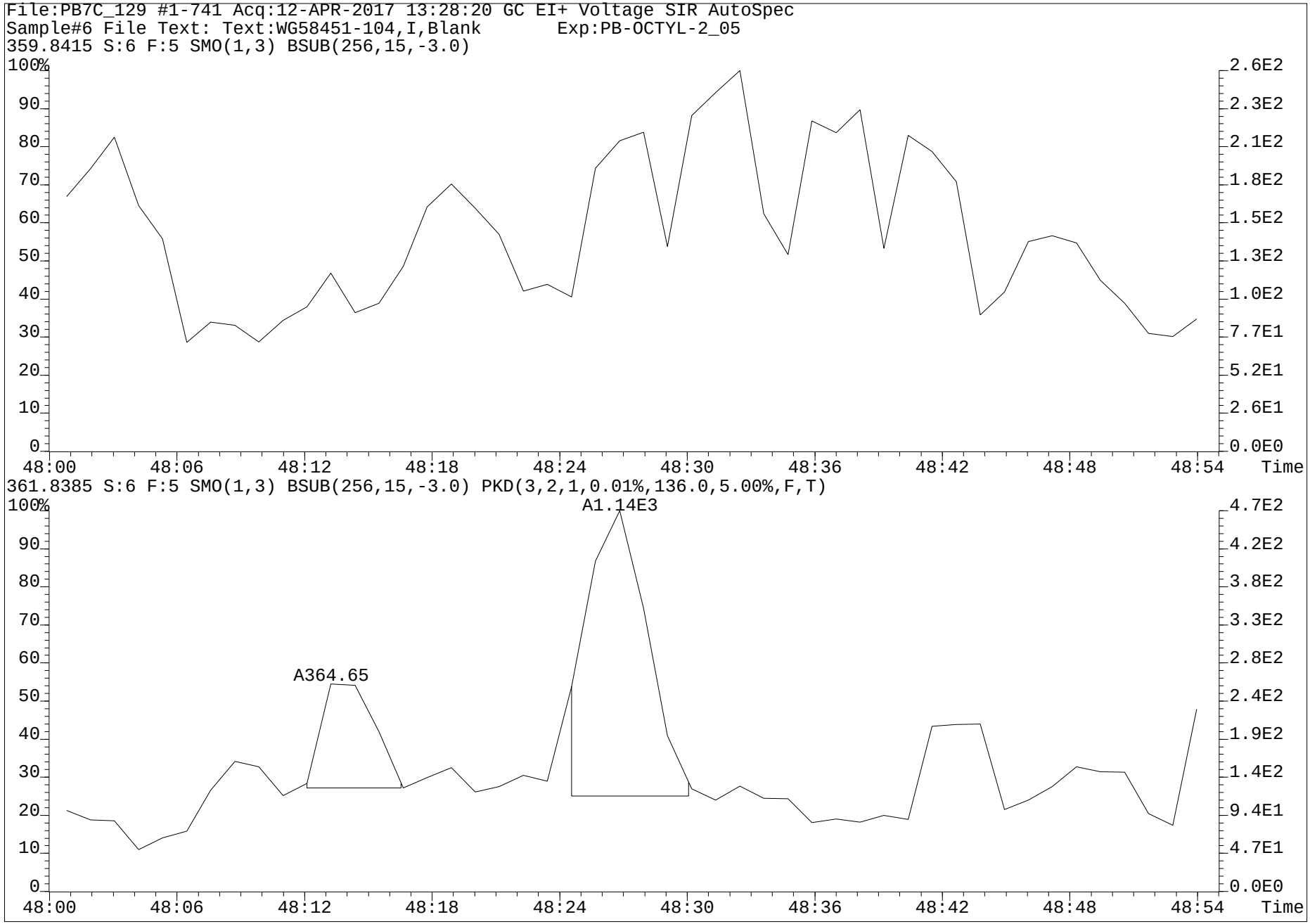

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A3.76E3
100%
90
80
70
60
50
40
30
20
10
0
1.2E3
1.0E3
9.3E2
8.1E2
7.0E2
5.8E2
4.6E2
3.5E2
2.3E2
1.2E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A5.04E3
A1.16E3
100%
90
80
70
60
50
40
30
20
10
0
1.3E3
1.2E3
1.1E3
9.4E2
8.1E2
6.7E2
5.4E2
4.0E2
2.7E2
1.3E2
0.0E0
37:42
37:48
37:54
38:00
38:06
38:12
38:18
Time

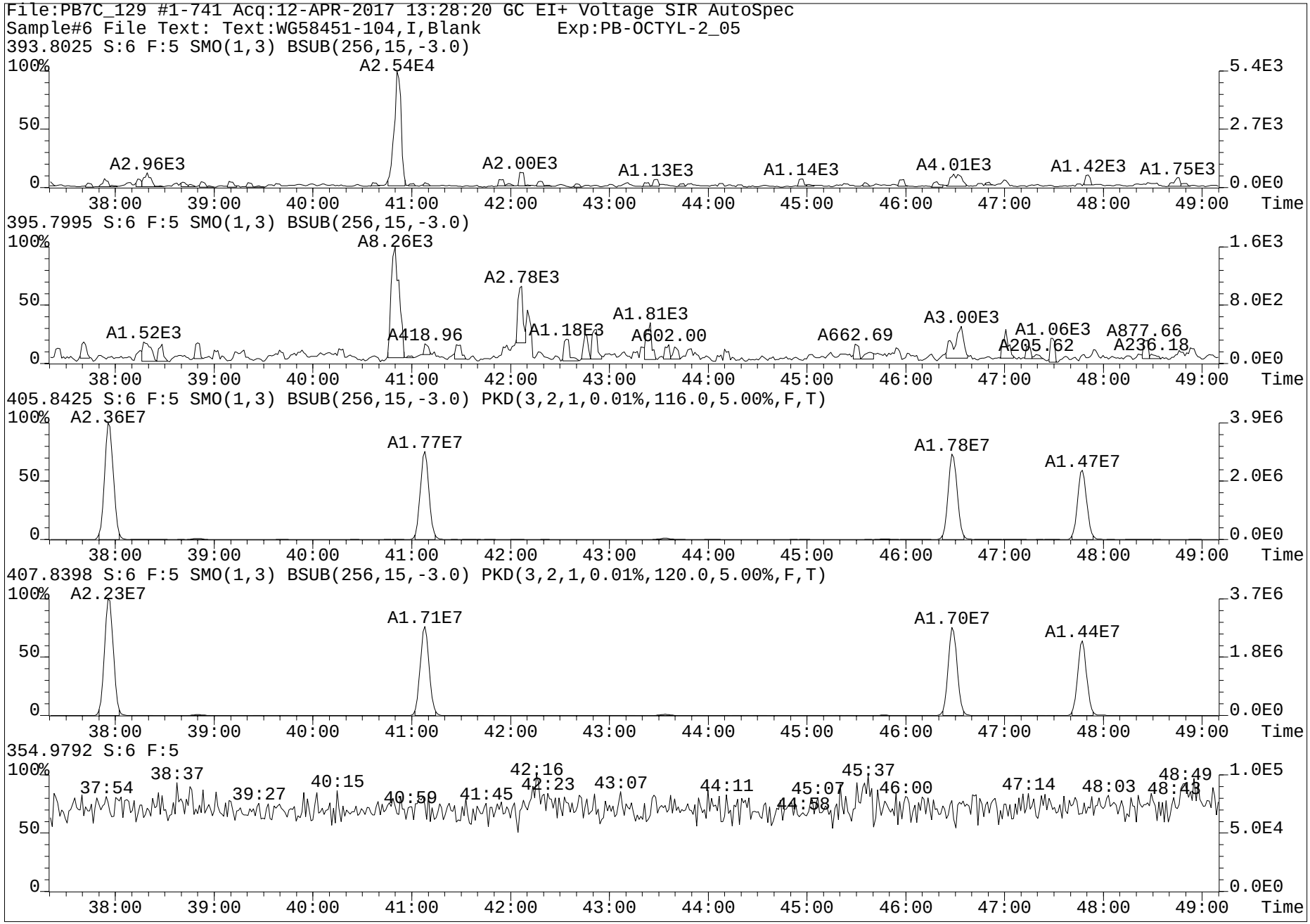

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A2.83E3
100%
90
80
70
60
50
40
30
20
10
0
8.6E2
7.7E2
6.8E2
6.0E2
5.1E2
4.3E2
3.4E2
2.6E2
1.7E2
8.6E1
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A929.22
A683.11
A573.03
100%
90
80
70
60
50
40
30
20
10
0
4.5E2
4.1E2
3.6E2
3.2E2
2.7E2
2.3E2
1.8E2
1.4E2
9.0E1
4.5E1
0.0E0
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

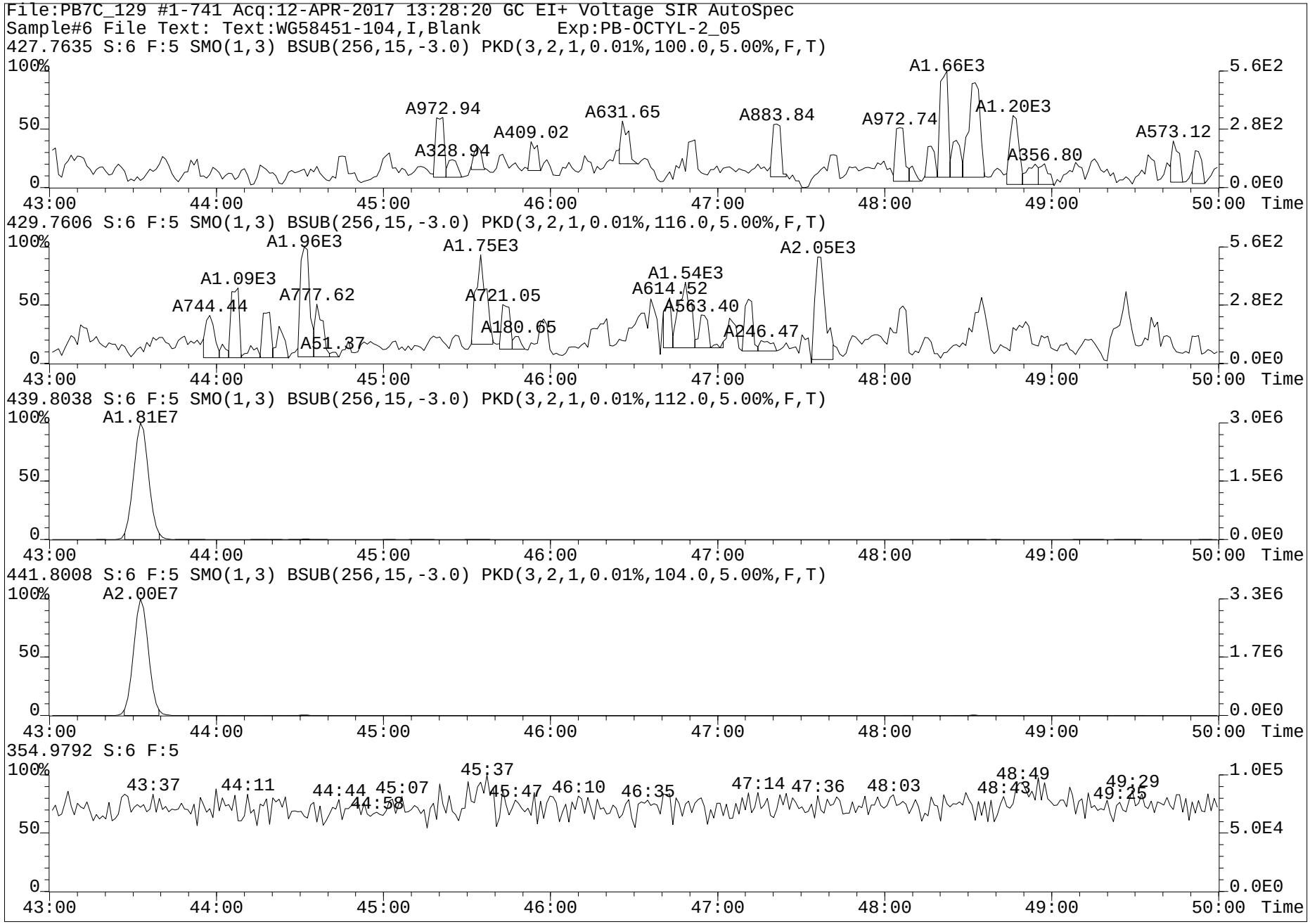

File:PB7C_129 #1-474 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.37E3
A5.50E3
A5.34E3
A1.60E3
A1.02E3
A558.15
A779.67
A1.05E3
A1.14E3
A392.33
361.8385 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0)
A3.58E3
A1.56E3
A2.00E3
A1.34E3
A797.00
A777.30
A623.46
A674.55
A925.06
A486.52
A502.10
A179.02
A182.41
371.8817 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A2.97E7
373.8788 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A2.35E7
330.9792 S:6 F:4
31:33
31:53
32:36
32:55
33:31
33:55
34:18
34:35
35:05
35:11
35:37
35:55
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
9.3E2
4.6E2
0.0E0
6.3E2
3.1E2
5.2E6
2.6E6
4.1E6
2.0E6
4.8E5
2.4E5

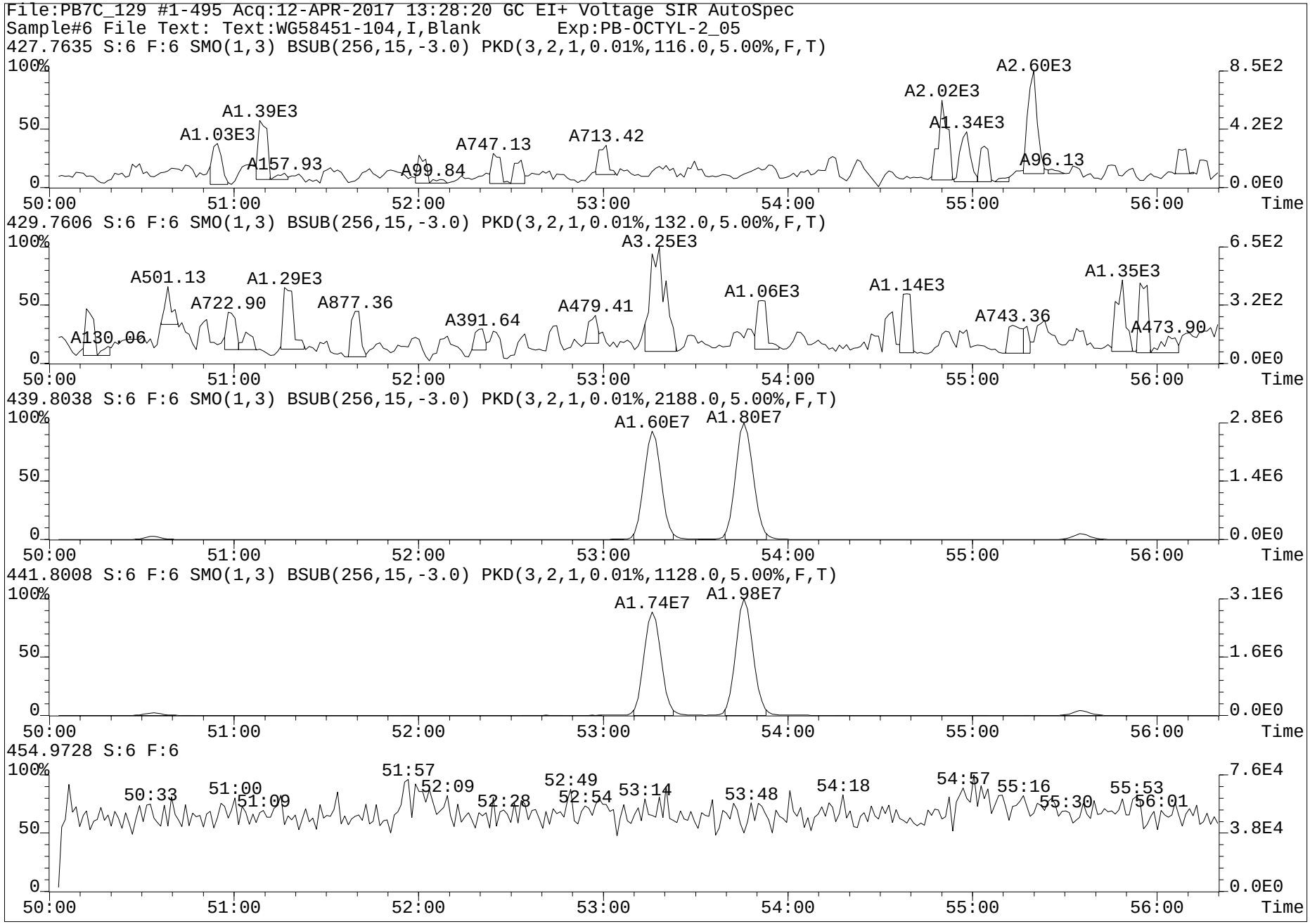

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.58E4
A1.31E4
A9.45E3
A5.69E3
A4.95E3
A7.46E3
A2.11E3
A2.74E3
A761.89
A862.69
A1.81E3
A1.29E3
A1.99E3
A395.96
A1.51E3
A1.80E3
A697.01
A2.15E3
361.8385 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.33E4
A1.04E4
A4.82E3
A2.47E3
A4.23E3
A4.05E3
A2.88E3
A2.58E3
A1.75E3
A1.96E3
A1.49E3
A617.25
A930.39
A597.31
A1.30E3
A1.24E3
A1.14E3
371.8817 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A4.86E7
A2.57E7
A2.34E7
A2.41E7
A2.44E6
373.8788 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A3.91E7
A2.00E7
A1.81E7
A1.91E7
354.9792 S:6 F:5
36:23
37:13
37:54
38:37
39:27
40:15
40:29
41:23
42:16
42:23
43:07
44:11
45:07
45:37
46:00
44:58
47:14
48:03
48:49
100%
50
0
3.0E3
1.5E3
0.0E0
2.8E3
1.4E3
6.4E6
3.2E6
5.2E6
2.6E6
1.0E5
5.0E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

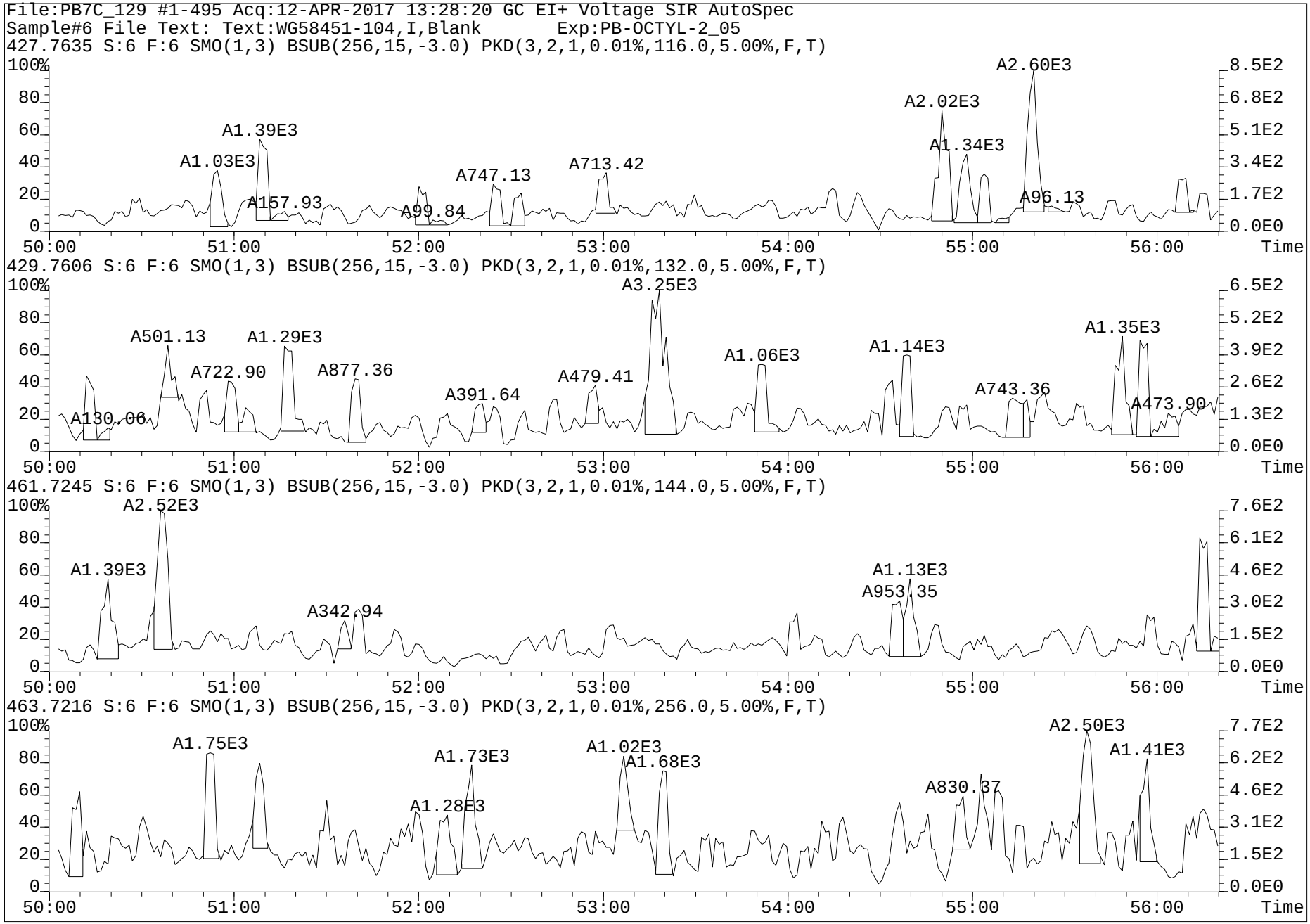

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
361.8385 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
393.8025 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
395.7995 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
427.7635 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
429.7606 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
Time

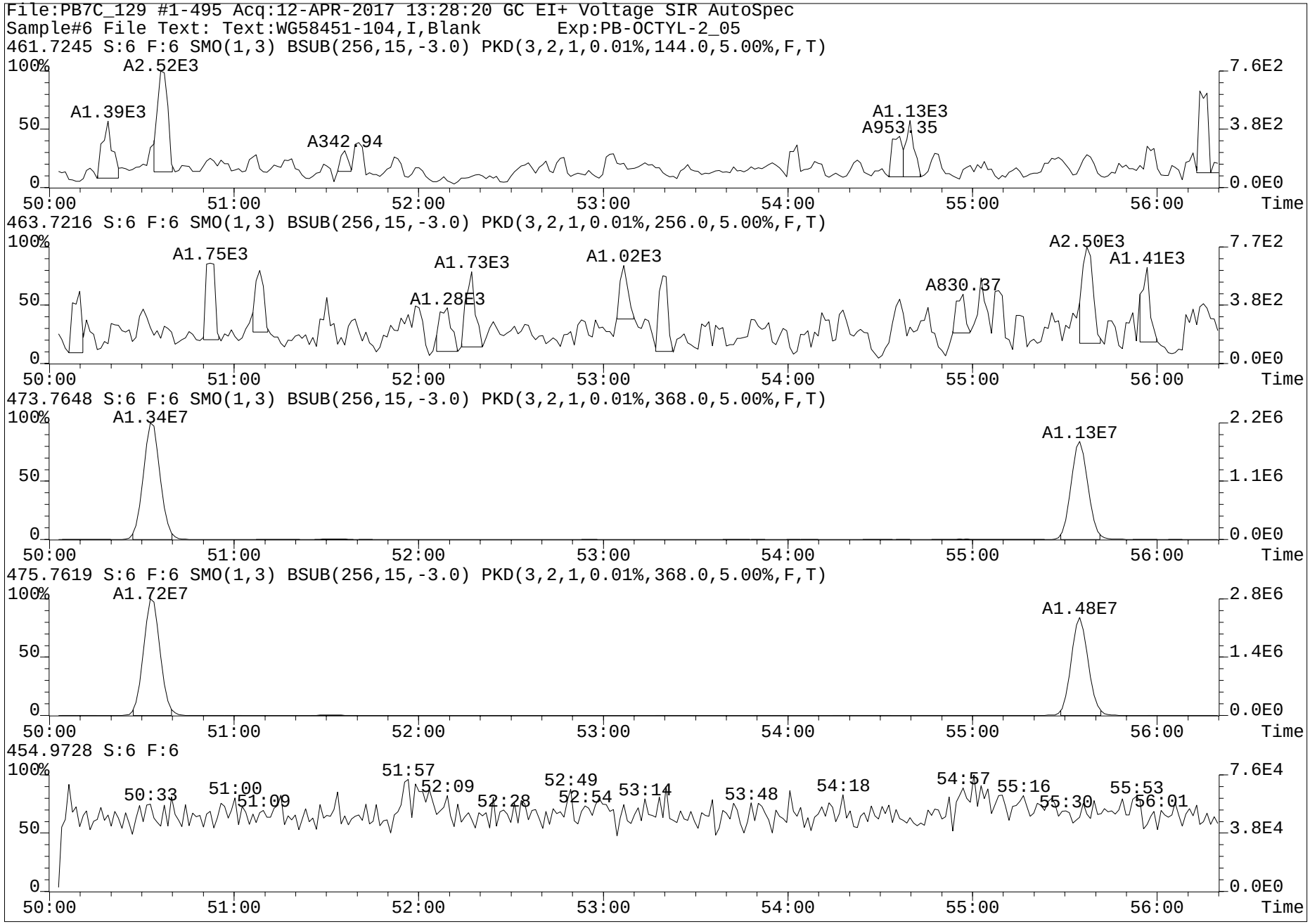

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
359.8415 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
100%
90
80
70
60
50
40
30
20
10
0
2.6E2
2.3E2
2.1E2
1.8E2
1.5E2
1.3E2
1.0E2
7.7E1
5.2E1
2.6E1
0.0E0
48:00
48:06
48:12
48:18
48:24
48:30
48:36
48:42
48:48
48:54
Time
361.8385 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.14E3
A364.65
4.7E2
4.2E2
3.8E2
3.3E2
2.8E2
2.4E2
1.9E2
1.4E2
9.4E1
4.7E1
0.0E0

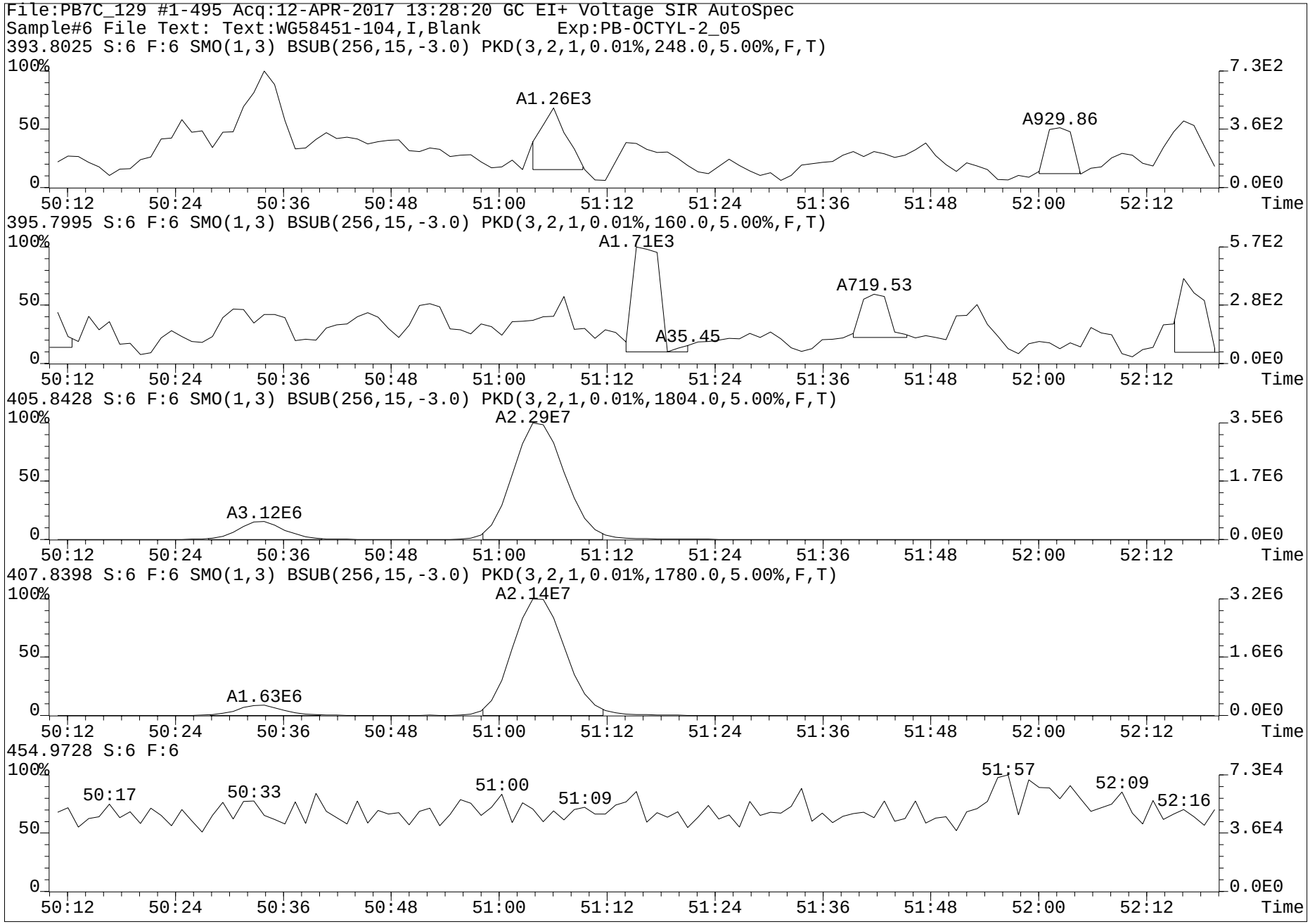

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.54E4
A2.96E3
A2.00E3
A1.13E3
A1.14E3
A4.01E3
A1.42E3
A1.75E3
395.7995 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0)
A8.26E3
A2.78E3
A1.81E3
A3.00E3
A1.06E3
A877.66
A1.52E3
A418.96
A1.18E3
A602.00
A662.69
A205.62
A236.18
405.8425 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A2.36E7
A1.77E7
A1.78E7
A1.47E7
407.8398 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A2.23E7
A1.71E7
A1.70E7
A1.44E7
354.9792 S:6 F:5
37:54
38:37
39:27
40:15
40:59
41:45
42:16
42:23
43:07
44:11
44:58
45:07
45:37
46:00
47:14
48:03
48:43
48:49
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

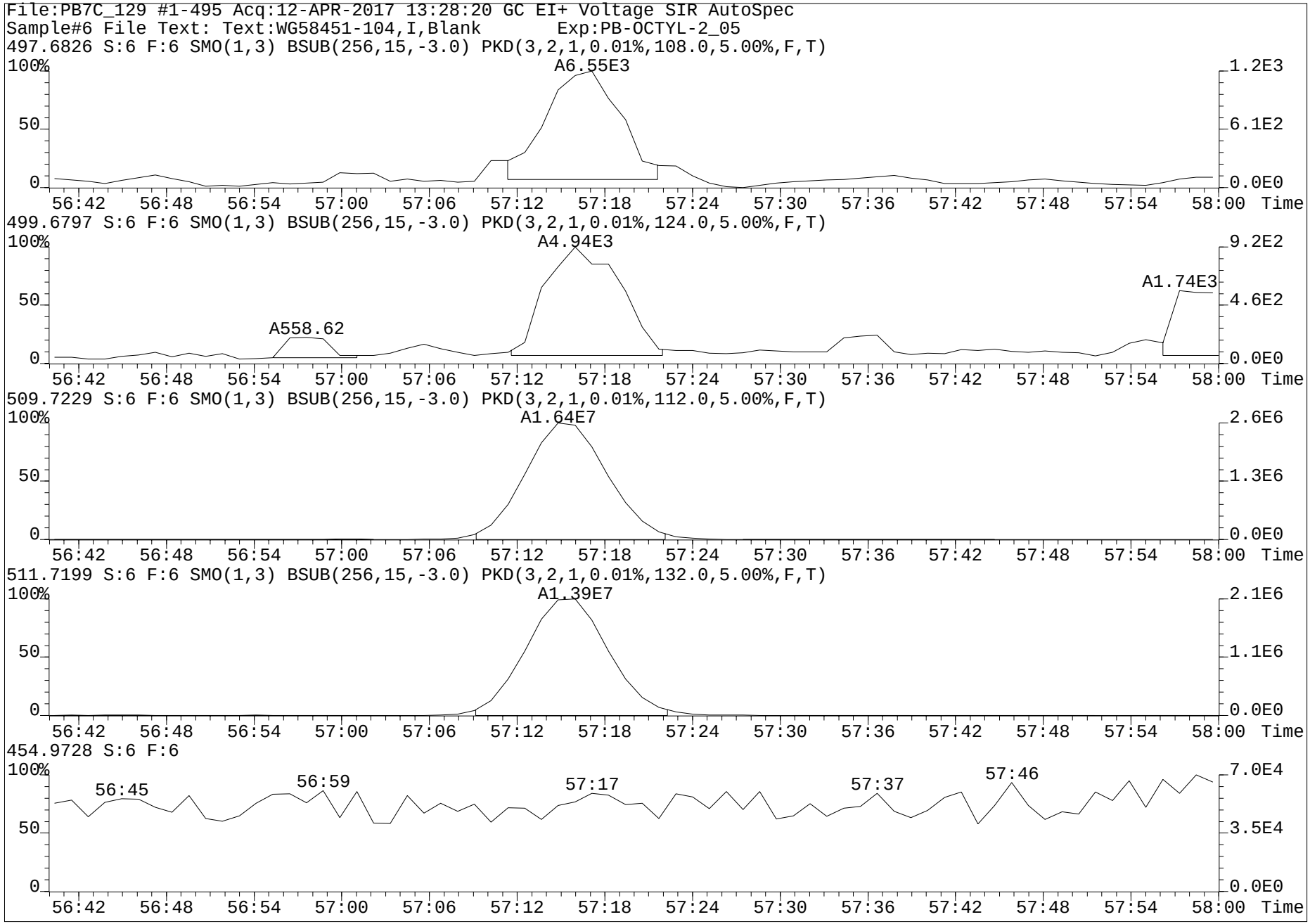

File:PB7C_129 #1-741 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.66E3
A1.20E3
A972.94
A631.65
A883.84
A972.74
A573.12
A409.02
A328.94
A356.80
429.7606 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.96E3
A1.75E3
A2.05E3
A1.54E3
A1.09E3
A614.52
A744.44
A777.62
A721.05
A563.40
A180.65
A246.47
A51.37
439.8038 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A1.81E7
441.8008 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A2.00E7
354.9792 S:6 F:5
43:37
44:11
44:44
45:07
44:58
45:37
45:47
46:10
46:35
47:14
47:36
48:03
48:43
48:49
49:29
49:25
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A1.03E3
A1.39E3
A157.93
A99.84
A747.13
A713.42
A2.02E3
A1.34E3
A2.60E3
A96.13
429.7606 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A130.06
A501.13
A722.90
A1.29E3
A877.36
A391.64
A479.41
A3.25E3
A1.06E3
A1.14E3
A743.36
A1.35E3
A473.90
439.8038 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2188.0,5.00%,F,T)
A1.60E7
A1.80E7
441.8008 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1128.0,5.00%,F,T)
A1.74E7
A1.98E7
454.9728 S:6 F:6
50:33
51:00
51:09
51:57
52:09
52:28
52:49
52:54
53:14
53:48
54:18
54:57
55:16
55:30
55:53
56:01
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
8.5E2
4.2E2
0.0E0
6.5E2
3.2E2
2.8E6
1.4E6
3.1E6
1.6E6
7.6E4
3.8E4


File:PB7C_129 #1-495 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
427.7635 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A2.60E3
A2.02E3
A1.39E3
A1.34E3
A1.03E3
A747.13
A713.42
A157.93
A99.84
A96.13
429.7606 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A3.25E3
A501.13
A1.29E3
A1.35E3
A1.14E3
A1.06E3
A722.90
A877.36
A479.41
A743.36
A391.64
A473.90
A130.06
461.7245 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A2.52E3
A1.39E3
A1.13E3
A953.35
A342.94
463.7216 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A2.50E3
A1.75E3
A1.73E3
A1.02E3
A1.41E3
A1.68E3
A830.37
A1.28E3
100%
80
60
40
20
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
8.5E2
6.8E2
5.1E2
3.4E2
1.7E2
0.0E0
6.5E2
5.2E2
3.9E2
2.6E2
1.3E2
7.6E2
6.1E2
4.6E2
3.0E2
1.5E2
7.7E2
6.2E2
4.6E2
3.1E2


File:PB7C_129 #1-495 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
461.7245 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A2.52E3
A1.39E3
A342.94
A1.13E3
A953.35
463.7216 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A1.75E3
A1.73E3
A1.28E3
A1.02E3
A2.50E3
A1.41E3
A830.37
473.7648 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,368.0,5.00%,F,T)
A1.34E7
A1.13E7
475.7619 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,368.0,5.00%,F,T)
A1.72E7
A1.48E7
454.9728 S:6 F:6
50:33
51:00
51:09
51:57
52:09
52:28
52:49
52:54
53:14
53:48
54:18
54:57
55:16
55:30
55:53
56:01
100%
50
0
7.6E2
3.8E2
0.0E0
2.2E6
1.1E6
2.8E6
1.4E6
7.6E4
3.8E4
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
393.8025 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.26E3
A929.86
7.3E2
3.6E2
0.0E0
395.7995 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A1.71E3
A719.53
A35.45
5.7E2
2.8E2
0.0E0
405.8428 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1804.0,5.00%,F,T)
A2.29E7
A3.12E6
3.5E6
1.7E6
0.0E0
407.8398 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1780.0,5.00%,F,T)
A2.14E7
A1.63E6
3.2E6
1.6E6
0.0E0
454.9728 S:6 F:6
50:17
50:33
51:00
51:09
51:57
52:09
52:16
7.3E4
3.6E4
0.0E0
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 13:28:20 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:WG58451-104,I,Blank Exp:PB-OCTYL-2_05
497.6826 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A6.55E3
499.6797 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A4.94E3
A1.74E3
A558.62
509.7229 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A1.64E7
511.7199 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A1.39E7
454.9728 S:6 F:6
56:45
56:59
57:17
57:37
57:46
100%
50
0
1.2E3
6.1E2
0.0E0
9.2E2
4.6E2
2.6E6
1.3E6
2.1E6
1.1E6
7.0E4
3.5E4
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time

OPUSquan 15-APR-2017 Page 1



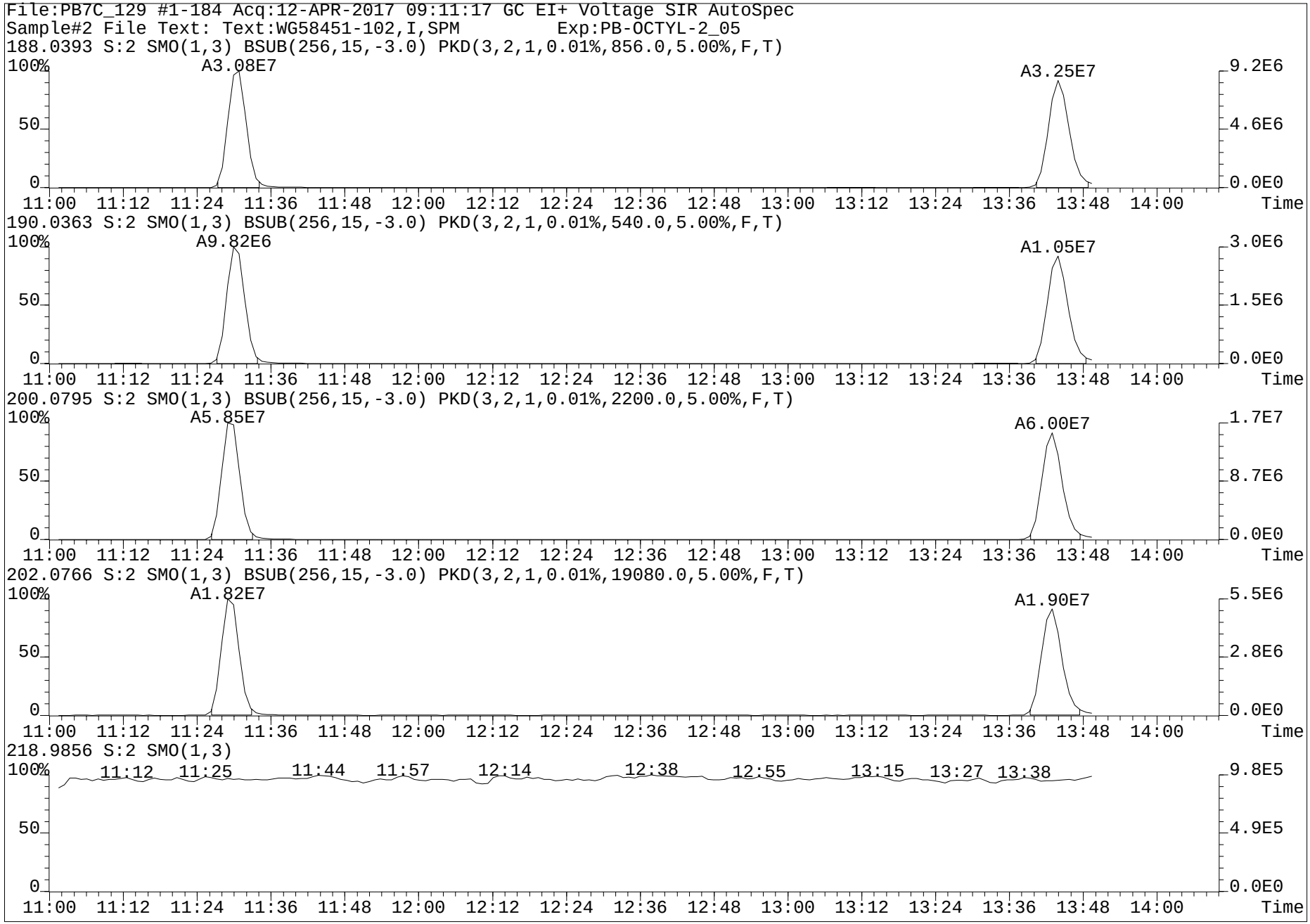
Run #8 Filename PB7C_129 S: 2 I: 1 Acquired: 12-APR-17 09:11:17 Processed: 13-APR-17 07:58:24
Run: pb7c_129-ta Analyte: 1668A-S8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: WG58451-102,I,SPM Comments: 1,WG58451,1.0/20uL,:4323
sample size: 20.000000 conc units: ng/mL total toxicity: 1345.20 F1: 1.0000 F2: 1.0000

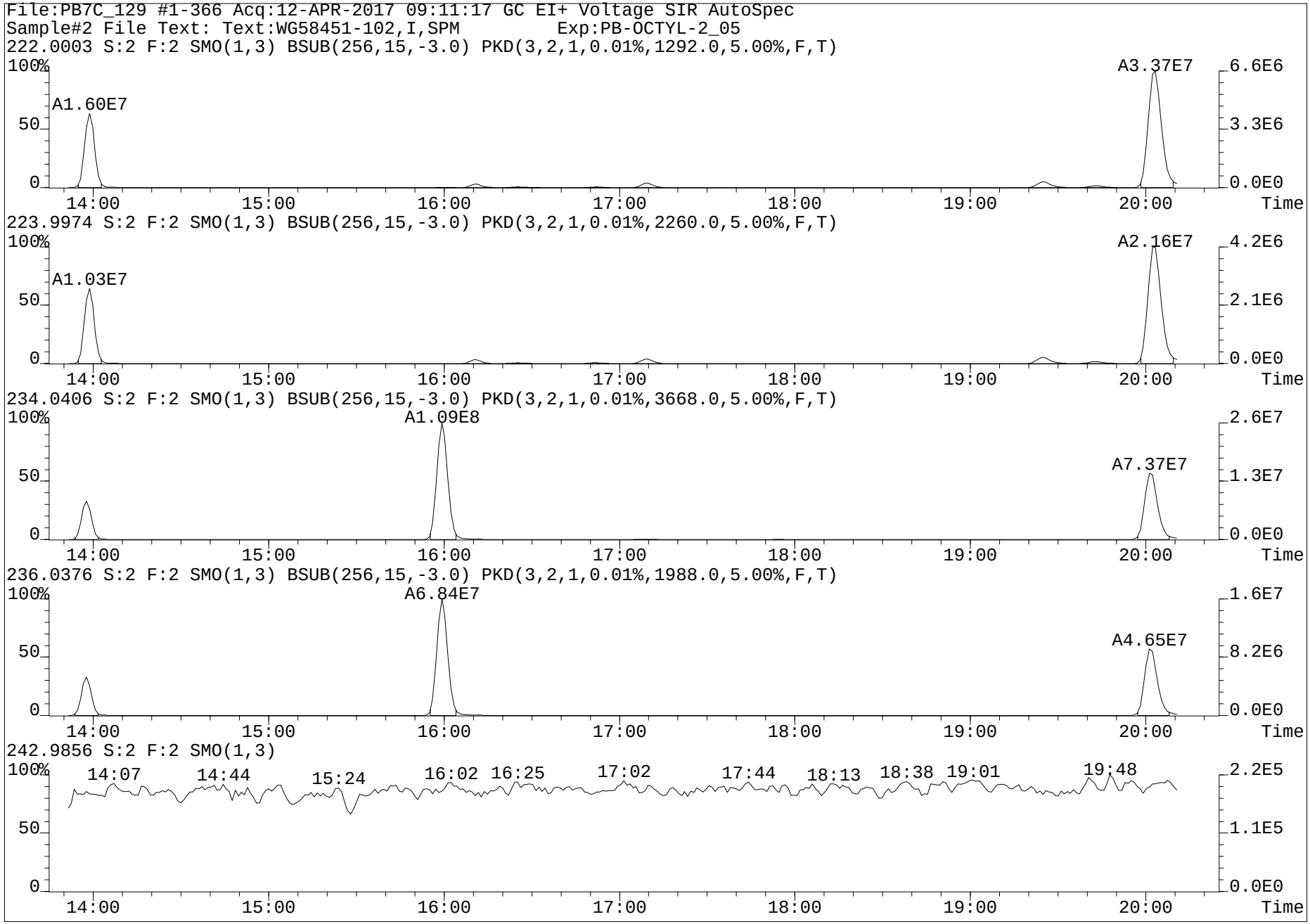
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 4.06e+07 | 3.13 | y | 11:31 | 48.489 | 48 | 0.0139 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 4.30e+07 | 3.10 | y | 13:44 | 49.715 | 50 | 0.0152 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 2.63e+07 | 1.56 | y | 13:59 | 48.498 | 48 | 0.0626 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 5.53e+07 | 1.56 | y | 20:03 | 49.566 | 50 | 0.0397 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 2.55e+07 | 1.05 | y | 17:09 | 50.046 | 50 | 0.0149 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 6.03e+07 | 1.04 | y | 27:21 | 50.952 | 51 | 0.0183 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 3.86e+07 | 0.78 | y | 20:19 | 47.730 | 48 | 0.0171 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 4.87e+07 | 0.78 | y | 34:24 | 50.059 | 50 | 0.0197 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 5.03e+07 | 0.78 | y | 34:59 | 50.728 | 51 | 0.0198 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.39e+07 | 1.57 | y | 26:02 | 47.733 | 48 | 0.0074 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 3.58e+07 | 1.57 | y | 37:05 | 50.376 | 50 | 0.0457 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.78e+07 | 1.56 | y | 37:25 | 50.971 | 51 | 0.0445 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.78e+07 | 1.58 | y | 37:58 | 50.339 | 50 | 0.0431 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 4.02e+07 | 1.58 | y | 38:39 | 51.701 | 52 | 0.0426 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 3.44e+07 | 1.53 | y | 41:53 | 50.667 | 51 | 0.0505 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 3.24e+07 | 1.27 | y | 31:58 | 45.829 | 46 | 0.0065 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 3.04e+07 | 1.27 | y | 43:50 | 51.038 | 51 | 0.0110 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 6.18e+07 | 1.25 | y | 45:02 | 101.874 | 102 | 0.0133 | - | n |
| 19 | Unk | CL6-PCB-169 | 1 | 2.90e+07 | 1.27 | y | 48:27 | 50.309 | 50 | 0.0117 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.80e+07 | 1.04 | y | 37:57 | 47.791 | 48 | 0.0084 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 2.81e+07 | 1.04 | y | 51:05 | 51.076 | 51 | 0.0657 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 2.17e+07 | 0.90 | y | 43:34 | 50.886 | 51 | 0.0083 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 2.19e+07 | 0.89 | y | 53:47 | 51.746 | 52 | 0.0668 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 1.70e+07 | 0.78 | y | 50:34 | 49.487 | 49 | 0.0428 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.41e+07 | 0.77 | y | 55:36 | 50.410 | 50 | 0.0524 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 1.68e+07 | 1.18 | y | 57:16 | 47.182 | 47 | 0.0124 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 7.67e+07 | 3.21 | y | 11:29 | 41.646 | 0 | 0.1209 | 41.6 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 7.91e+07 | 3.15 | y | 13:43 | 44.033 | 0 | 0.1240 | 44.0 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 5.30e+07 | 1.60 | y | 13:58 | 44.848 | 0 | 0.0501 | 44.8 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 1.20e+08 | 1.59 | y | 20:02 | 62.115 | 0 | 0.0306 | 62.1 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 5.16e+07 | 1.06 | y | 17:08 | 48.849 | 0 | 0.1385 | 48.8 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 1.17e+08 | 1.06 | y | 27:20 | 77.981 | 0 | 0.2087 | 78.0 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 7.77e+07 | 0.80 | y | 20:18 | 63.353 | 0 | 0.0133 | 63.4 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 9.50e+07 | 0.77 | y | 34:22 | 78.292 | 0 | 0.0174 | 78.3 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 9.86e+07 | 0.78 | y | 34:58 | 78.834 | 0 | 0.0169 | 78.8 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 6.78e+07 | 1.58 | y | 26:01 | 65.174 | 0 | 0.0042 | 65.2 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 7.33e+07 | 1.56 | y | 37:03 | 78.500 | 0 | 0.0815 | 78.5 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 7.24e+07 | 1.56 | y | 37:24 | 78.640 | 0 | 0.0826 | 78.6 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 7.06e+07 | 1.60 | y | 37:57 | 79.123 | 0 | 0.0852 | 79.1 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 7.64e+07 | 1.58 | y | 38:37 | 83.331 | 0 | 0.0830 | 83.3 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 6.61e+07 | 1.57 | y | 41:52 | 78.778 | 0 | 0.0906 | 78.8 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 7.02e+07 | 1.26 | y | 31:57 | 74.228 | 0 | 0.0037 | 74.2 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 5.39e+07 | 1.28 | y | 43:49 | 78.580 | 0 | 0.0127 | 78.6 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 1.13e+08 | 1.27 | y | 45:01 | 157.247 | 0 | 0.0122 | 78.6 | n |

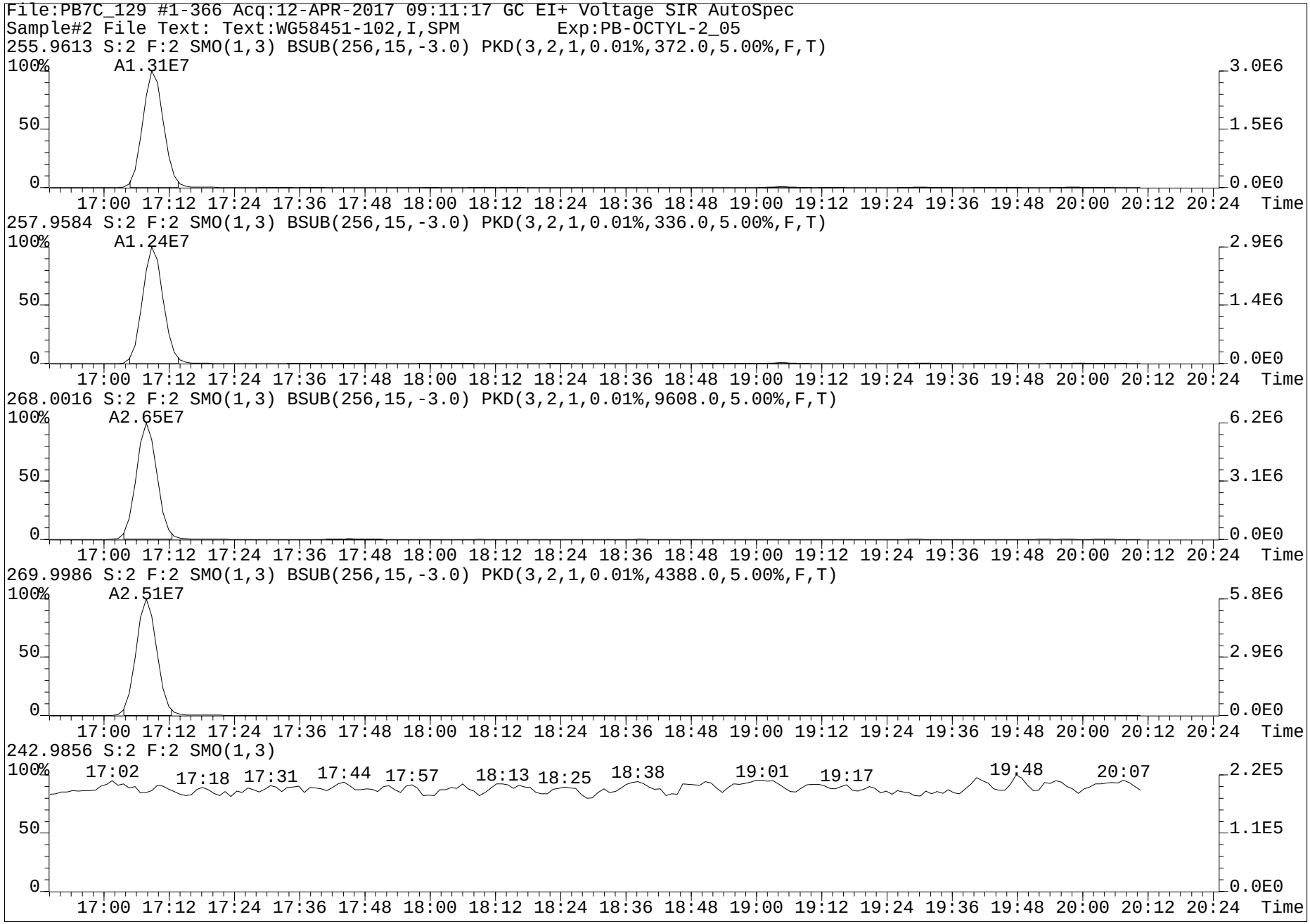
SVD BY SJH 20-Apr-2017

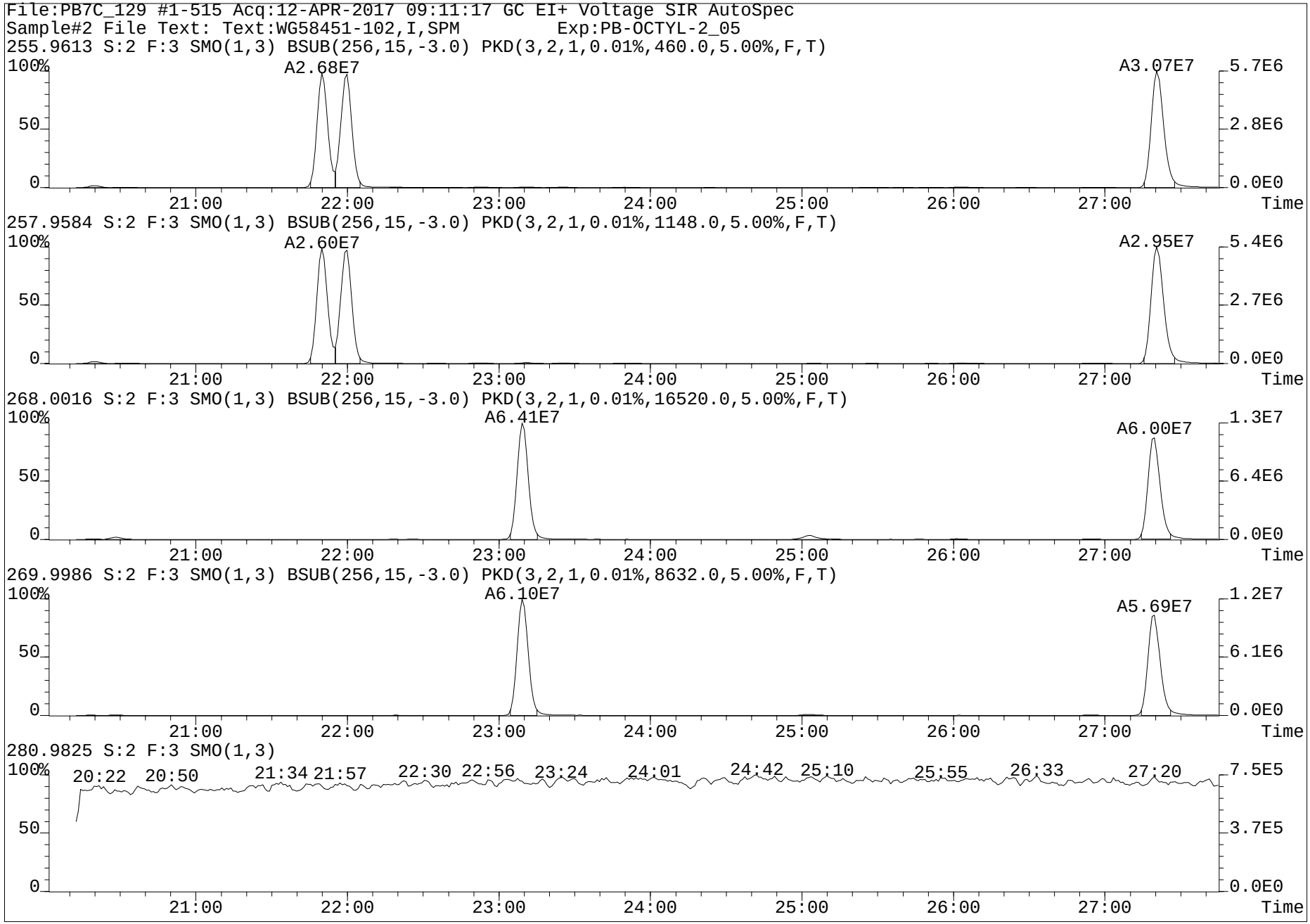
PV by TD 15-Apr-2017

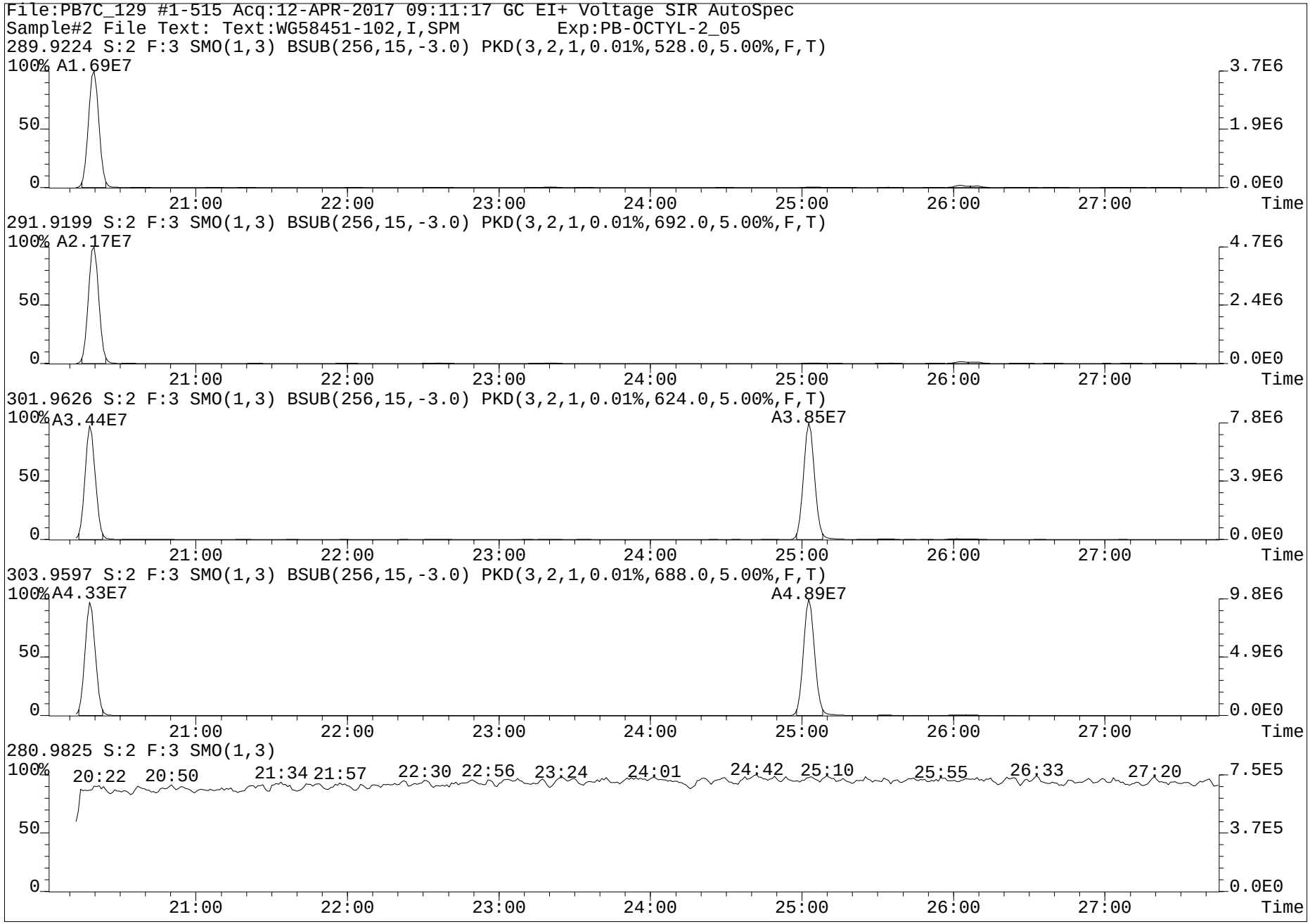
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 5.66e+07 | 1.25 | y | 48:25 | 82.913 | 0 | 0.0127 | 82.9 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 6.17e+07 | 1.03 | y | 37:56 | 67.100 | 0 | 0.0049 | 67.1 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 5.48e+07 | 1.06 | y | 51:04 | 91.510 | 0 | 0.1075 | 91.5 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 4.98e+07 | 0.92 | y | 43:33 | 58.376 | 0 | 0.0047 | 58.4 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 4.45e+07 | 0.91 | y | 53:46 | 79.405 | 0 | 0.1464 | 79.4 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.78e+07 | 0.80 | y | 50:33 | 70.437 | 0 | 0.0334 | 70.4 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.99e+07 | 0.80 | y | 55:34 | 73.623 | 0 | 0.0441 | 73.6 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.50e+07 | 1.19 | y | 57:15 | 68.418 | 0 | 0.0078 | 68.4 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.77e+08 | 1.59 | y | 15:59 | 5.560 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 8.75e+07 | 0.79 | y | 25:03 | 4.990 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 7.08e+07 | 1.59 | y | 32:11 | 4.576 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 5.43e+07 | 1.28 | y | 40:39 | 3.949 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 3.68e+07 | 0.94 | y | 53:16 | 4.260 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 1.25e+08 | 1.05 | y | 23:09 | 84.558 | 0 | 0.2115 | 84.6 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 7.32e+07 | 1.58 | y | 35:00 | 78.845 | 0 | 0.0071 | 78.8 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 4.26e+07 | 1.04 | y | 41:07 | 79.384 | 0 | 0.0079 | 79.4 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 7.77e+07 | 0.80 | y | 20:18 | 63.353 | 0 | 0.0133 | 63.4 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 6.17e+07 | 1.03 | y | 37:56 | 67.100 | 0 | 0.0049 | 67.1 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

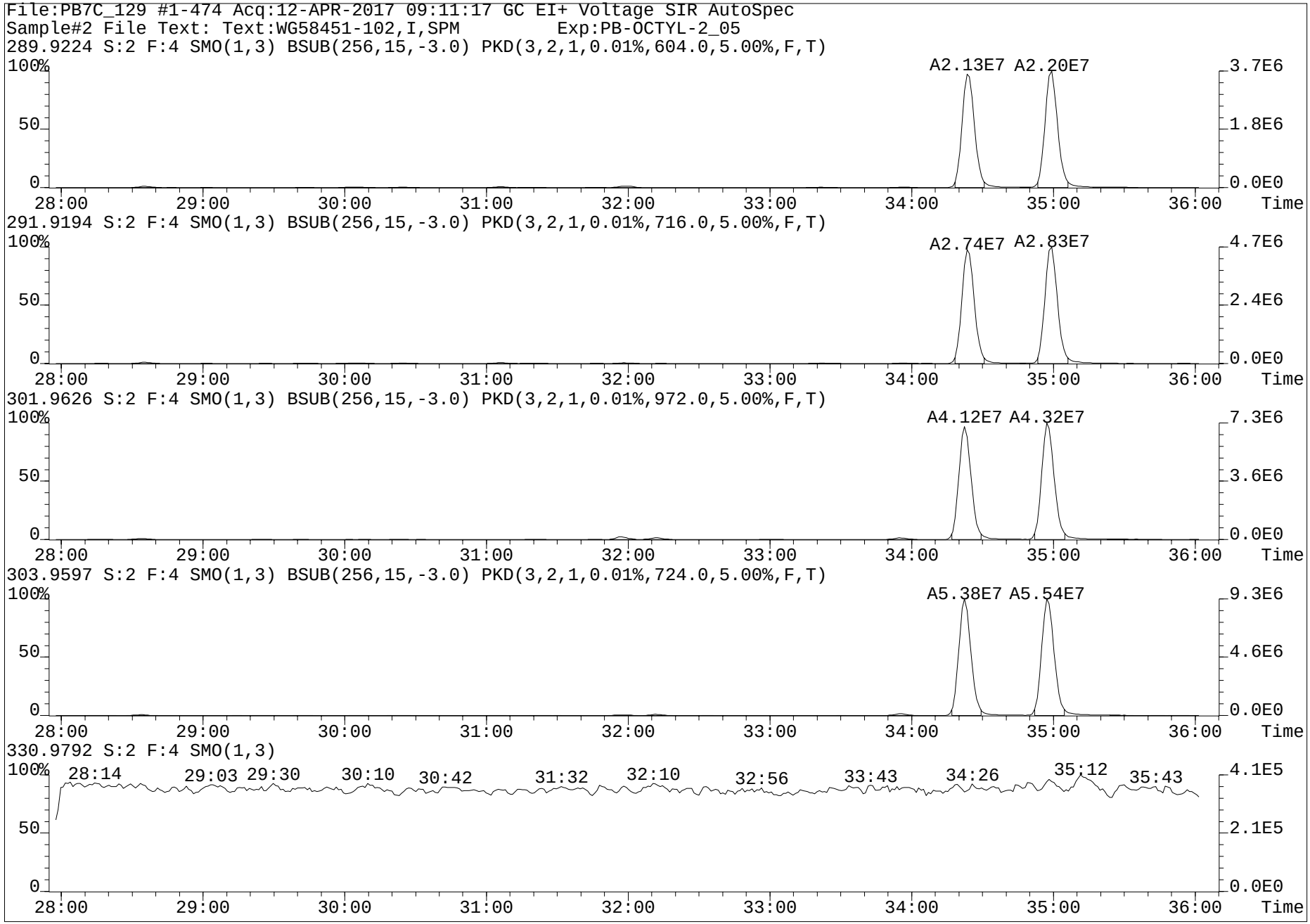

File:PB7C_129 #1-184 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
188.0393 S:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,856.0,5.00%,F,T)
A3.08E7
A3.25E7
190.0363 S:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,540.0,5.00%,F,T)
A9.82E6
A1.05E7
200.0795 S:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2200.0,5.00%,F,T)
A5.85E7
A6.00E7
202.0766 S:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,19080.0,5.00%,F,T)
A1.82E7
A1.90E7
218.9856 S:2 SMO(1,3)
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

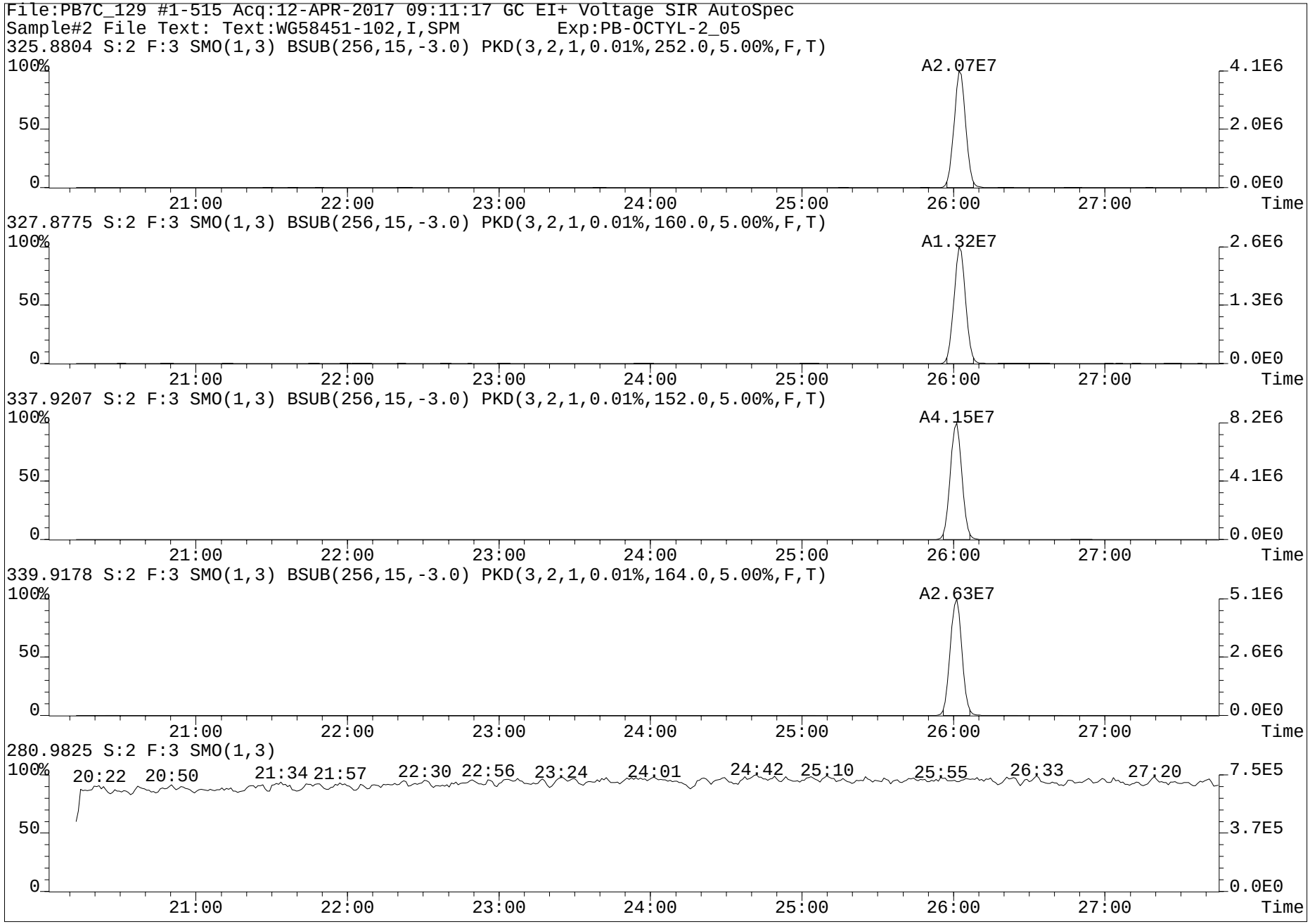

File:PB7C_129 #1-366 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
222.0003 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1292.0,5.00%,F,T)
A1.60E7
A3.37E7
223.9974 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2260.0,5.00%,F,T)
A1.03E7
A2.16E7
234.0406 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3668.0,5.00%,F,T)
A1.09E8
A7.37E7
236.0376 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1988.0,5.00%,F,T)
A6.84E7
A4.65E7
242.9856 S:2 F:2 SMO(1,3)
14:07
14:44
15:24
16:02
16:25
17:02
17:44
18:13
18:38
19:01
19:48
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
6.6E6
3.3E6
0.0E0
4.2E6
2.1E6
2.6E7
1.3E7
1.6E7
8.2E6
2.2E5
1.1E5

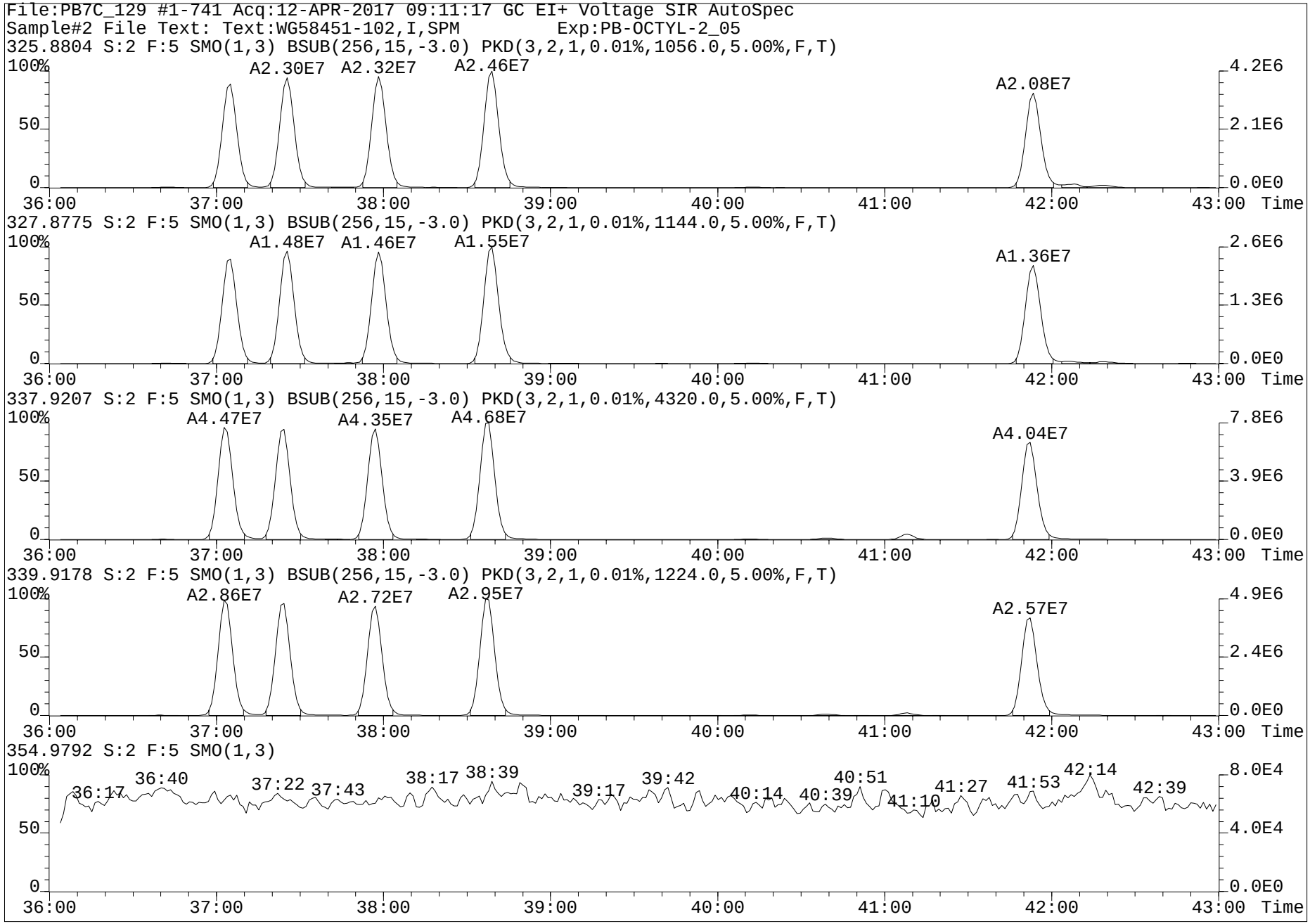

File:PB7C_129 #1-366 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
255.9613 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,372.0,5.00%,F,T)
100% A1.31E7
3.0E6
1.5E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
257.9584 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,336.0,5.00%,F,T)
100% A1.24E7
2.9E6
1.4E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
268.0016 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,9608.0,5.00%,F,T)
100% A2.65E7
6.2E6
3.1E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
269.9986 S:2 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4388.0,5.00%,F,T)
100% A2.51E7
5.8E6
2.9E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
242.9856 S:2 F:2 SMO(1,3)
100% 17:02 17:18 17:31 17:44 17:57 18:13 18:25 18:38 19:01 19:17 19:48 20:07
2.2E5
1.1E5
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

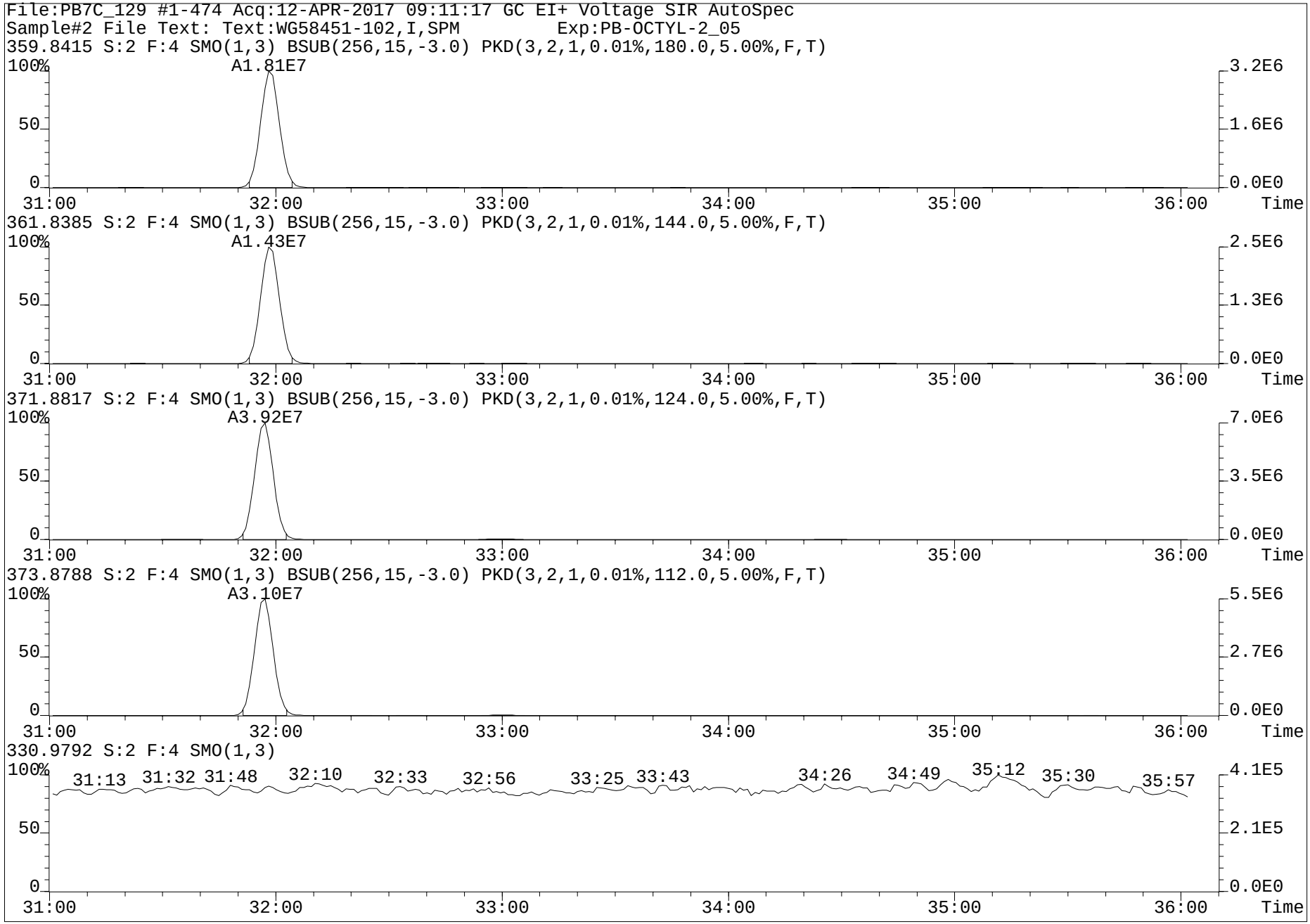

File:PB7C_129 #1-515 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
255.9613 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,460.0,5.00%,F,T)
A2.68E7
A3.07E7
257.9584 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1148.0,5.00%,F,T)
A2.60E7
A2.95E7
268.0016 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16520.0,5.00%,F,T)
A6.41E7
A6.00E7
269.9986 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8632.0,5.00%,F,T)
A6.10E7
A5.69E7
280.9825 S:2 F:3 SMO(1,3)
20:22 20:50 21:34 21:57 22:30 22:56 23:24 24:01 24:42 25:10 25:55 26:33 27:20
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
5.7E6 2.8E6 0.0E0
5.4E6 2.7E6 0.0E0
1.3E7 6.4E6 0.0E0
1.2E7 6.1E6 0.0E0
7.5E5 3.7E5 0.0E0

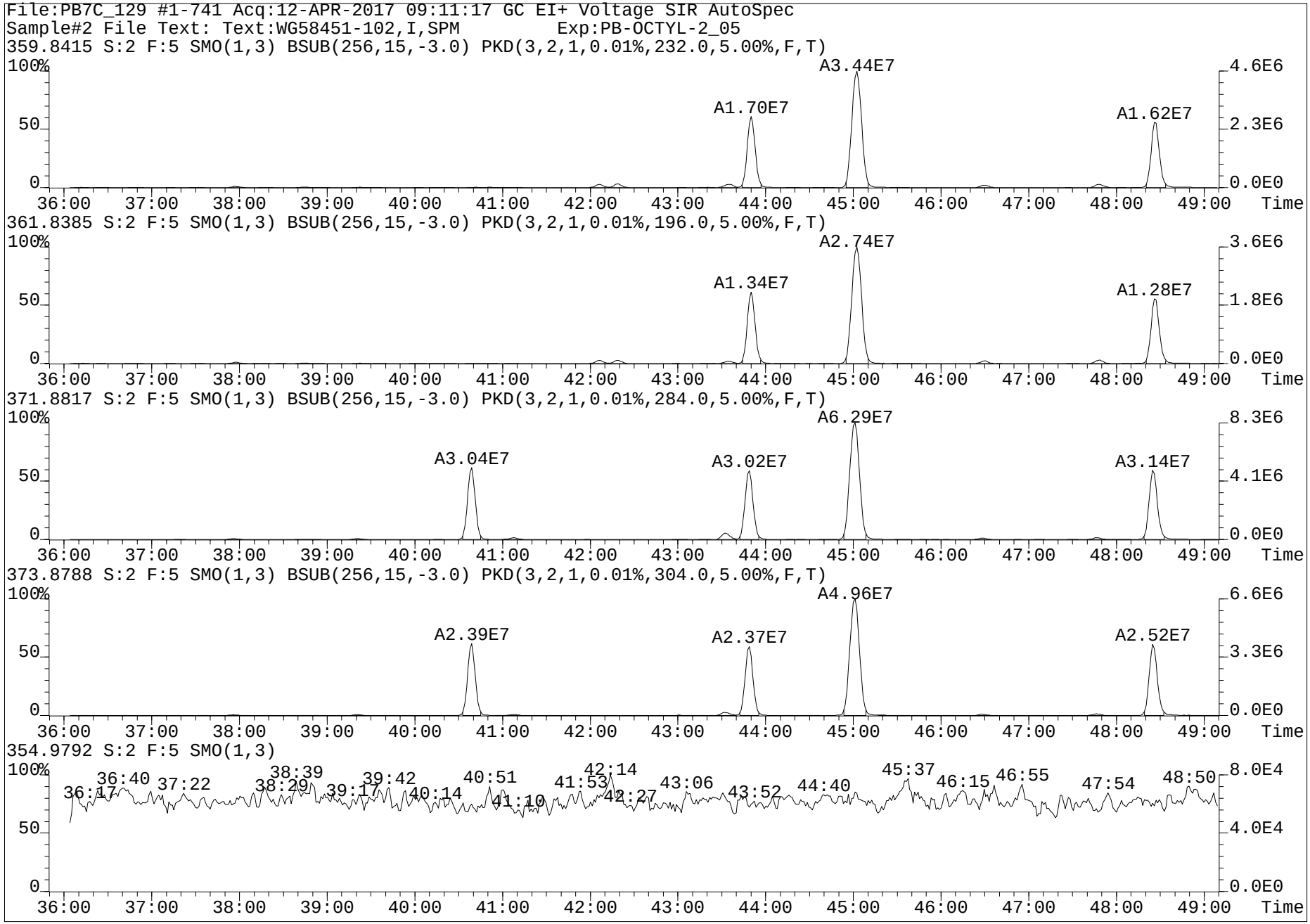

File:PB7C_129 #1-515 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
289.9224 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,528.0,5.00%,F,T)
100% A1.69E7
3.7E6
1.9E6
0.0E0
291.9199 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,692.0,5.00%,F,T)
100% A2.17E7
4.7E6
2.4E6
0.0E0
301.9626 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,624.0,5.00%,F,T)
100% A3.44E7
A3.85E7
7.8E6
3.9E6
0.0E0
303.9597 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,688.0,5.00%,F,T)
100% A4.33E7
A4.89E7
9.8E6
4.9E6
0.0E0
280.9825 S:2 F:3 SMO(1,3)
100%
20:22 20:50 21:34 21:57 22:30 22:56 23:24 24:01 24:42 25:10 25:55 26:33 27:20
7.5E5
3.7E5
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

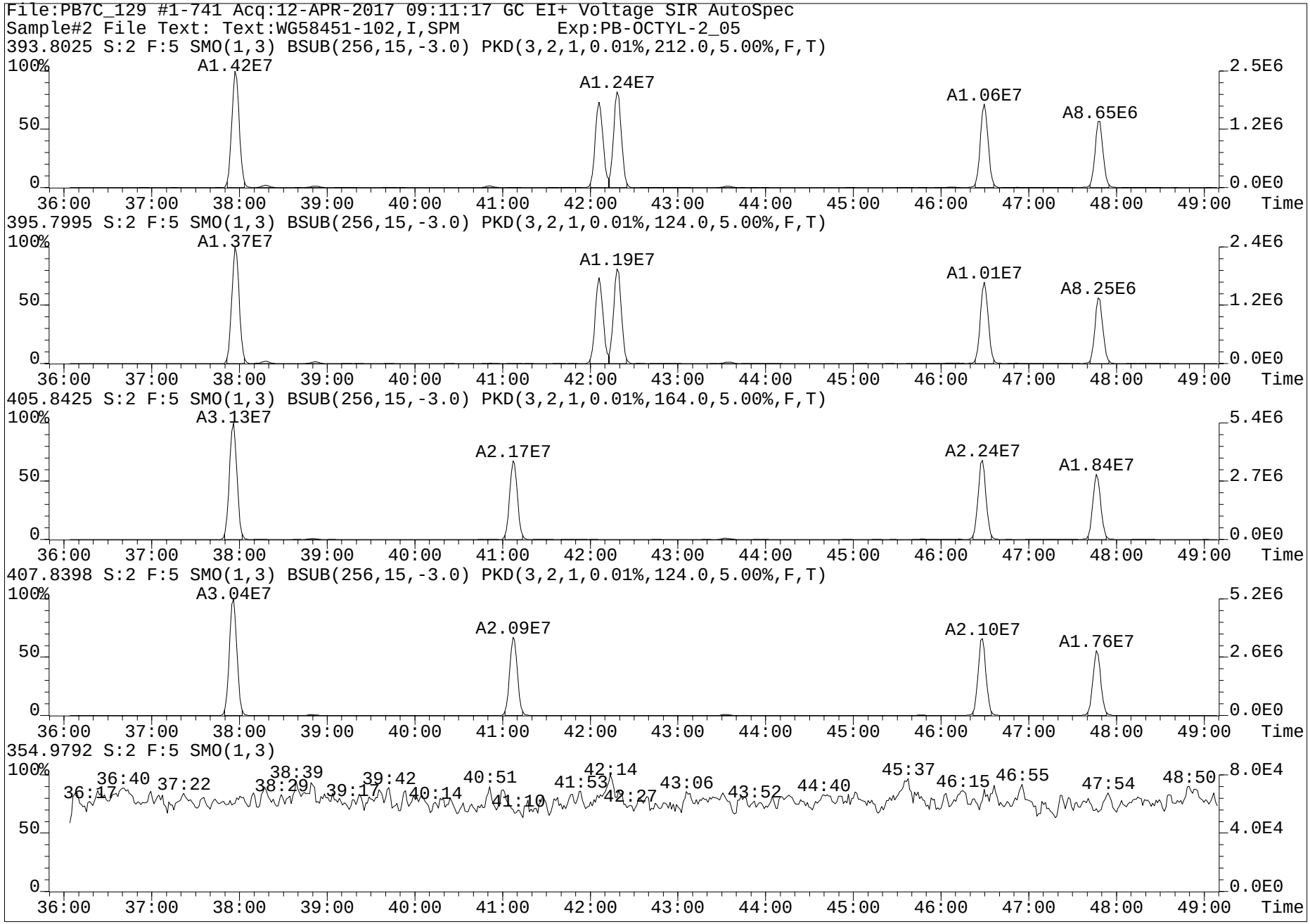

File:PB7C_129 #1-474 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
289.9224 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,604.0,5.00%,F,T)
A2.13E7 A2.20E7
291.9194 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,716.0,5.00%,F,T)
A2.74E7 A2.83E7
301.9626 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,972.0,5.00%,F,T)
A4.12E7 A4.32E7
303.9597 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,724.0,5.00%,F,T)
A5.38E7 A5.54E7
330.9792 S:2 F:4 SMO(1,3)
28:14 29:03 29:30 30:10 30:42 31:32 32:10 32:56 33:43 34:26 35:12 35:43
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
3.7E6 1.8E6 0.0E0
4.7E6 2.4E6 0.0E0
7.3E6 3.6E6 0.0E0
9.3E6 4.6E6 0.0E0
4.1E5 2.1E5 0.0E0

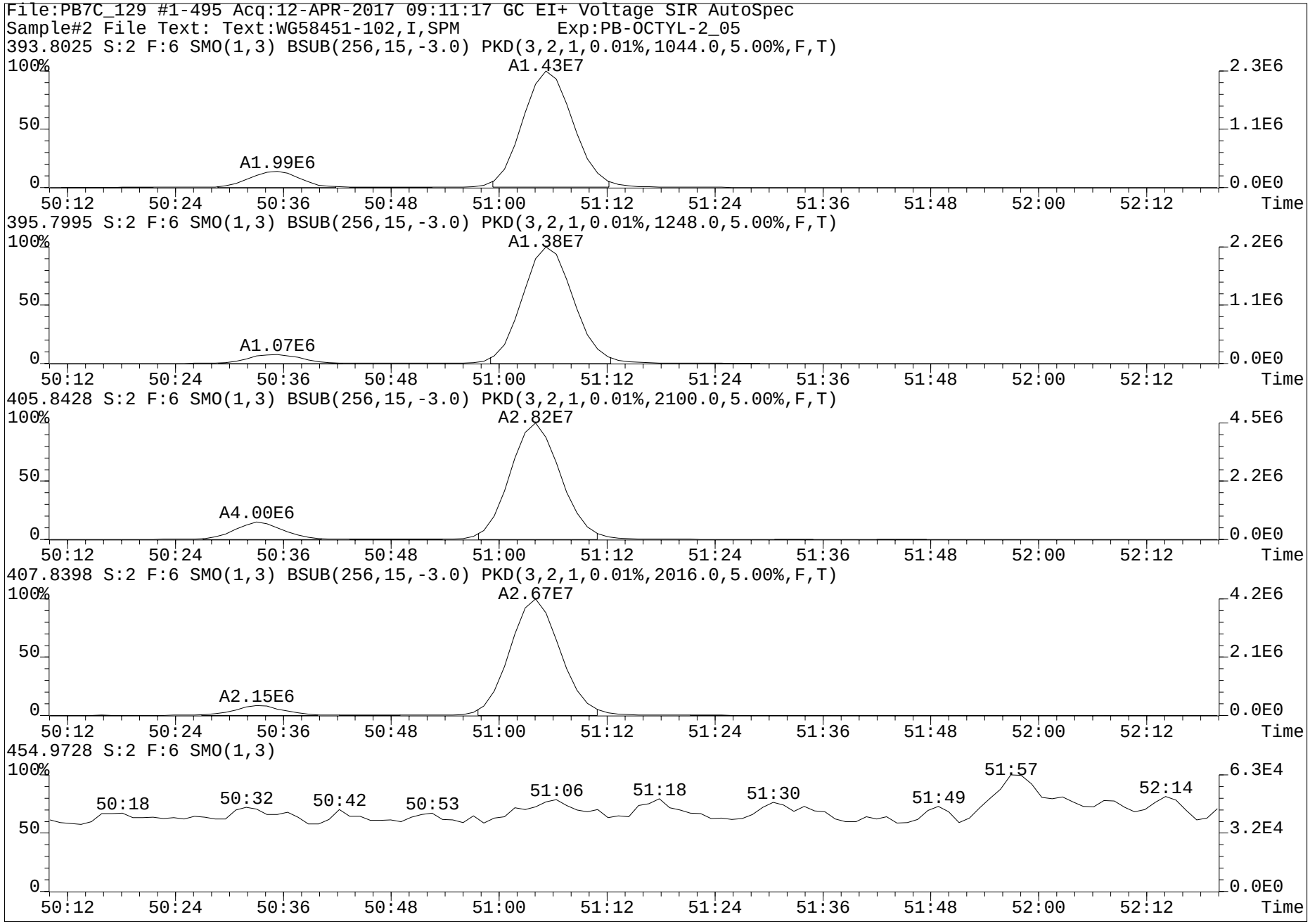

File:PB7C_129 #1-515 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
325.8804 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A2.07E7
327.8775 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A1.32E7
337.9207 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,152.0,5.00%,F,T)
A4.15E7
339.9178 S:2 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,164.0,5.00%,F,T)
A2.63E7
280.9825 S:2 F:3 SMO(1,3)
20:22 20:50 21:34 21:57 22:30 22:56 23:24 24:01 24:42 25:10 25:55 26:33 27:20
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
4.1E6 2.0E6 0.0E0
2.6E6 1.3E6 0.0E0
8.2E6 4.1E6 0.0E0
5.1E6 2.6E6 0.0E0
7.5E5 3.7E5 0.0E0

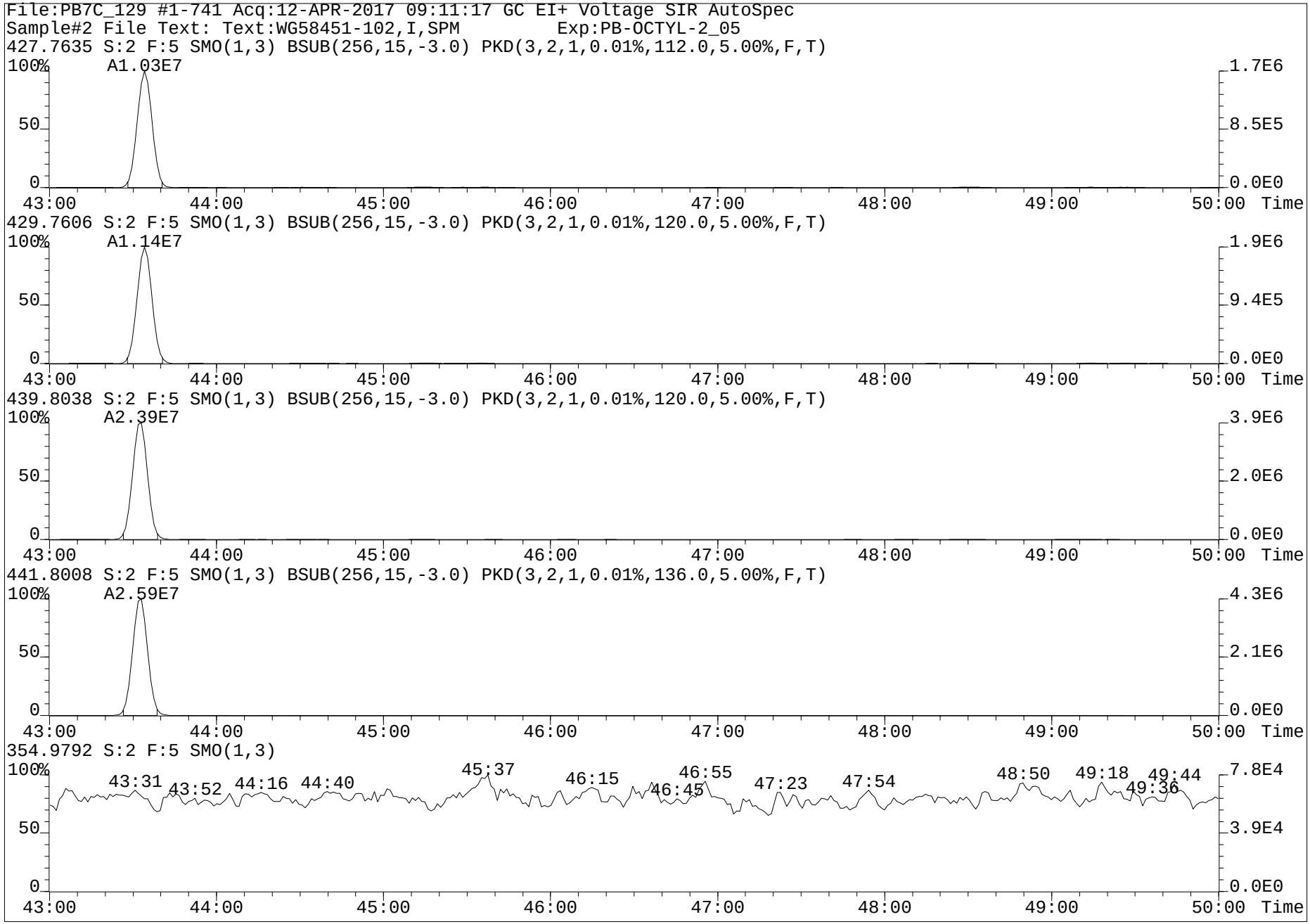

File:PB7C_129 #1-741 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
325.8804 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1056.0,5.00%,F,T)
A2.30E7 A2.32E7 A2.46E7 A2.08E7
327.8775 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1144.0,5.00%,F,T)
A1.48E7 A1.46E7 A1.55E7 A1.36E7
337.9207 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4320.0,5.00%,F,T)
A4.47E7 A4.35E7 A4.68E7 A4.04E7
339.9178 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1224.0,5.00%,F,T)
A2.86E7 A2.72E7 A2.95E7 A2.57E7
354.9792 S:2 F:5 SMO(1,3)
36:17 36:40 37:22 37:43 38:17 38:39 39:17 39:42 40:14 40:39 40:51 41:10 41:27 41:53 42:14 42:39
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 Time
4.2E6 2.1E6 0.0E0
2.6E6 1.3E6 0.0E0
7.8E6 3.9E6 0.0E0
4.9E6 2.4E6 0.0E0
8.0E4 4.0E4 0.0E0

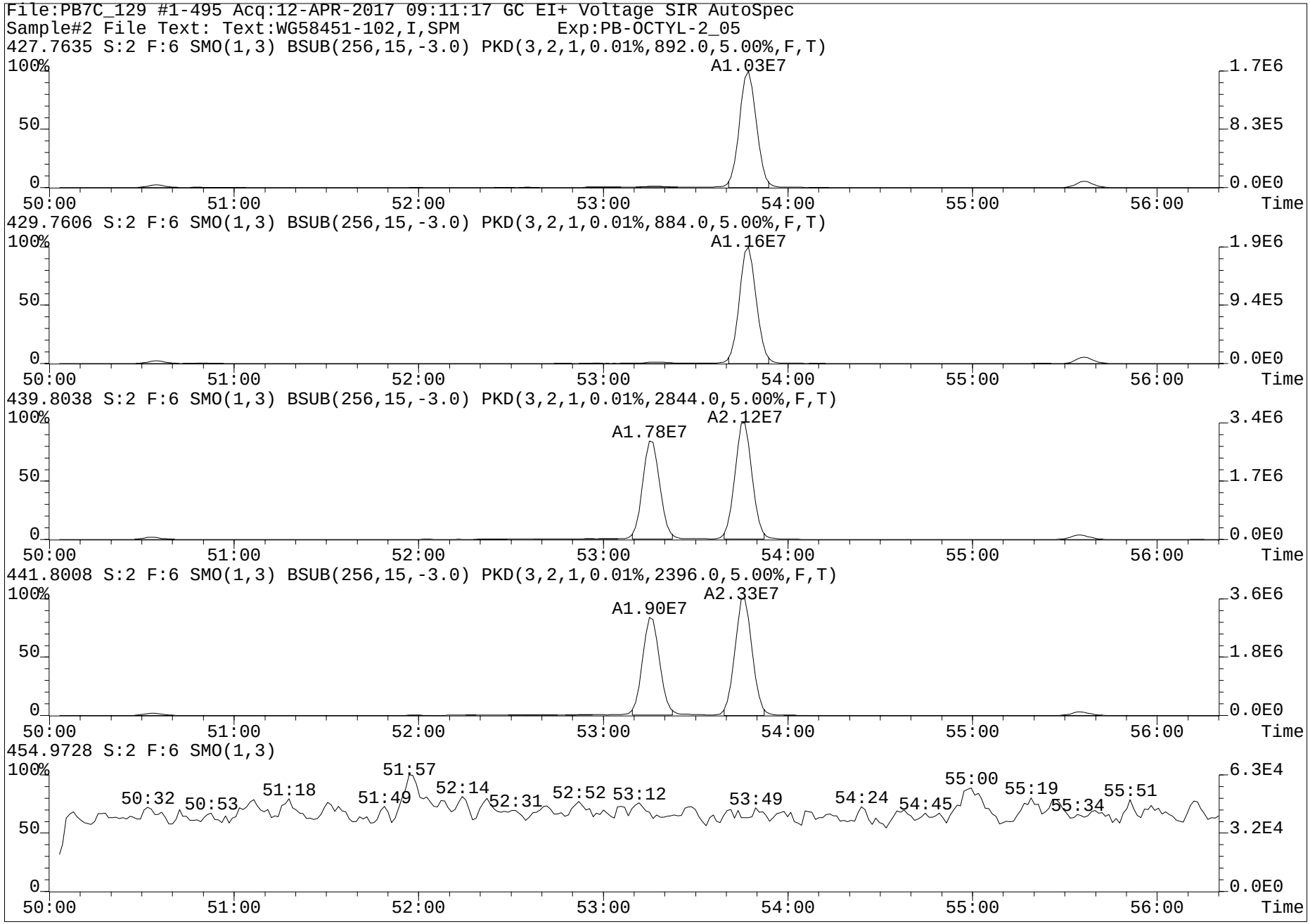

File:PB7C_129 #1-474 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
359.8415 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,180.0,5.00%,F,T)
A1.81E7
361.8385 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A1.43E7
371.8817 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A3.92E7
373.8788 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A3.10E7
330.9792 S:2 F:4 SMO(1,3)
31:13 31:32 31:48 32:10 32:33 32:56 33:25 33:43 34:26 34:49 35:12 35:30 35:57
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time
3.2E6
1.6E6
0.0E0
2.5E6
1.3E6
7.0E6
3.5E6
5.5E6
2.7E6
4.1E5
2.1E5

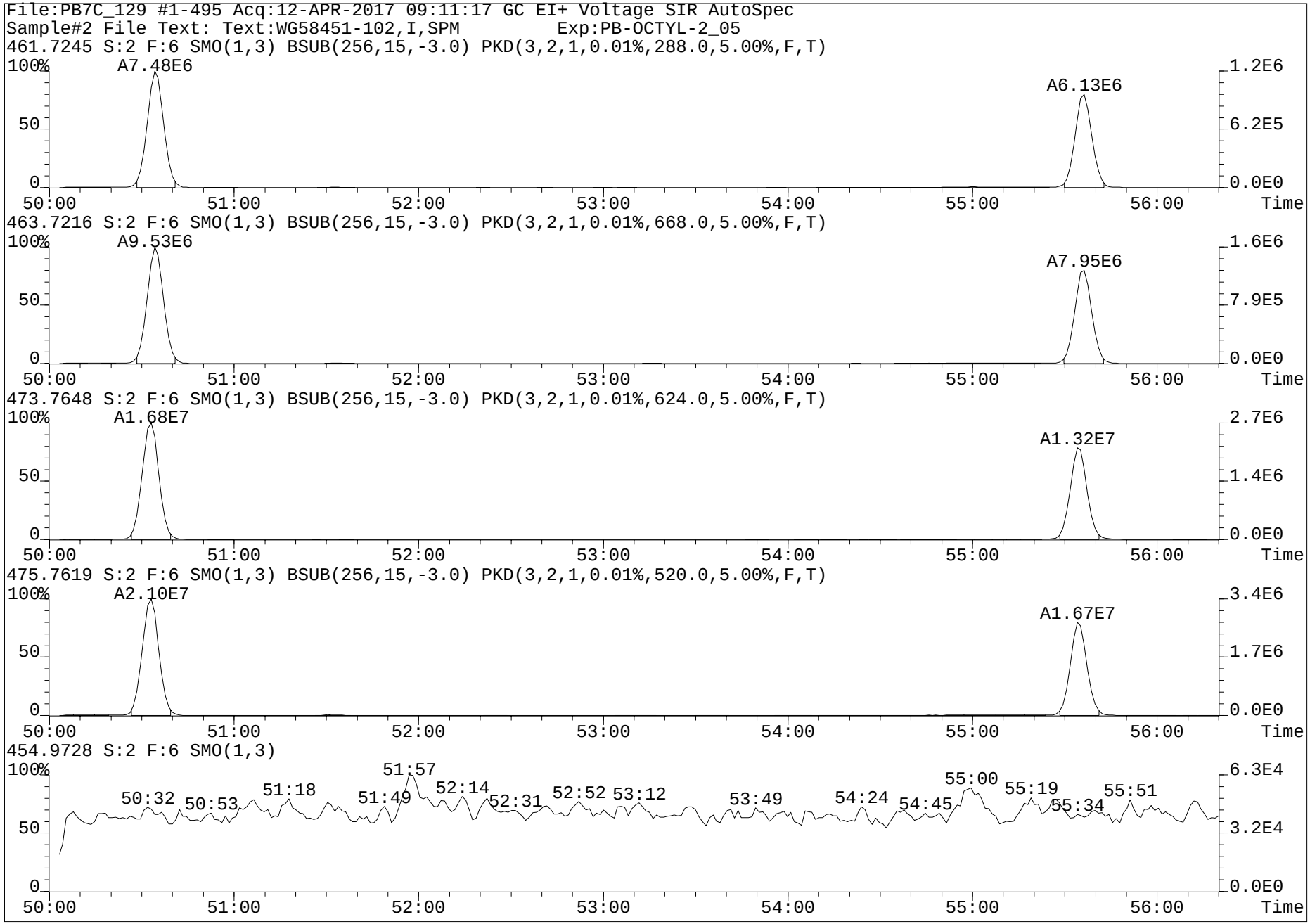

File:PB7C_129 #1-741 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
359.8415 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.70E7
A3.44E7
A1.62E7
361.8385 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,196.0,5.00%,F,T)
A1.34E7
A2.74E7
A1.28E7
371.8817 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A3.04E7
A3.02E7
A6.29E7
A3.14E7
373.8788 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A2.39E7
A2.37E7
A4.96E7
A2.52E7
354.9792 S:2 F:5 SMO(1,3)
36:17
36:40
37:22
38:29
38:39
39:17
39:42
40:14
40:51
41:10
41:53
42:14
42:27
43:06
43:52
44:40
45:37
46:15
46:55
47:54
48:50
100%
50
0
4.6E6
2.3E6
0.0E0
3.6E6
1.8E6
8.3E6
4.1E6
6.6E6
3.3E6
8.0E4
4.0E4
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

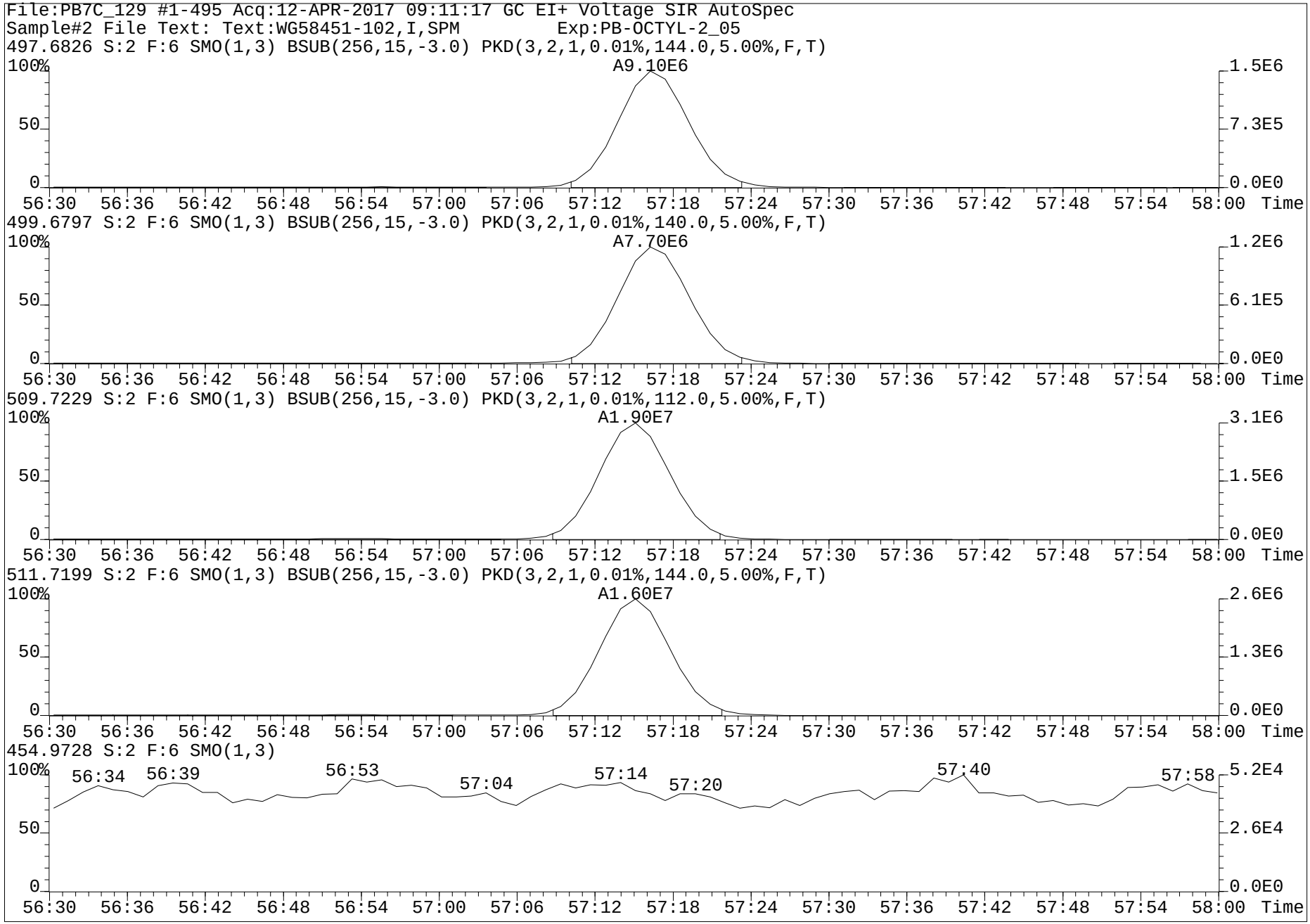

File:PB7C_129 #1-741 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
393.8025 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,212.0,5.00%,F,T)
A1.42E7
A1.24E7
A1.06E7
A8.65E6
395.7995 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.37E7
A1.19E7
A1.01E7
A8.25E6
405.8425 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,164.0,5.00%,F,T)
A3.13E7
A2.17E7
A2.24E7
A1.84E7
407.8398 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A3.04E7
A2.09E7
A2.10E7
A1.76E7
354.9792 S:2 F:5 SMO(1,3)
36:17
36:40
37:22
38:29
38:39
39:17
39:42
40:14
40:51
41:10
41:53
42:14
42:27
43:06
43:52
44:40
45:37
46:15
46:55
47:54
48:50
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
2.5E6
1.2E6
0.0E0
2.4E6
5.4E6
2.7E6
5.2E6
2.6E6
8.0E4
4.0E4

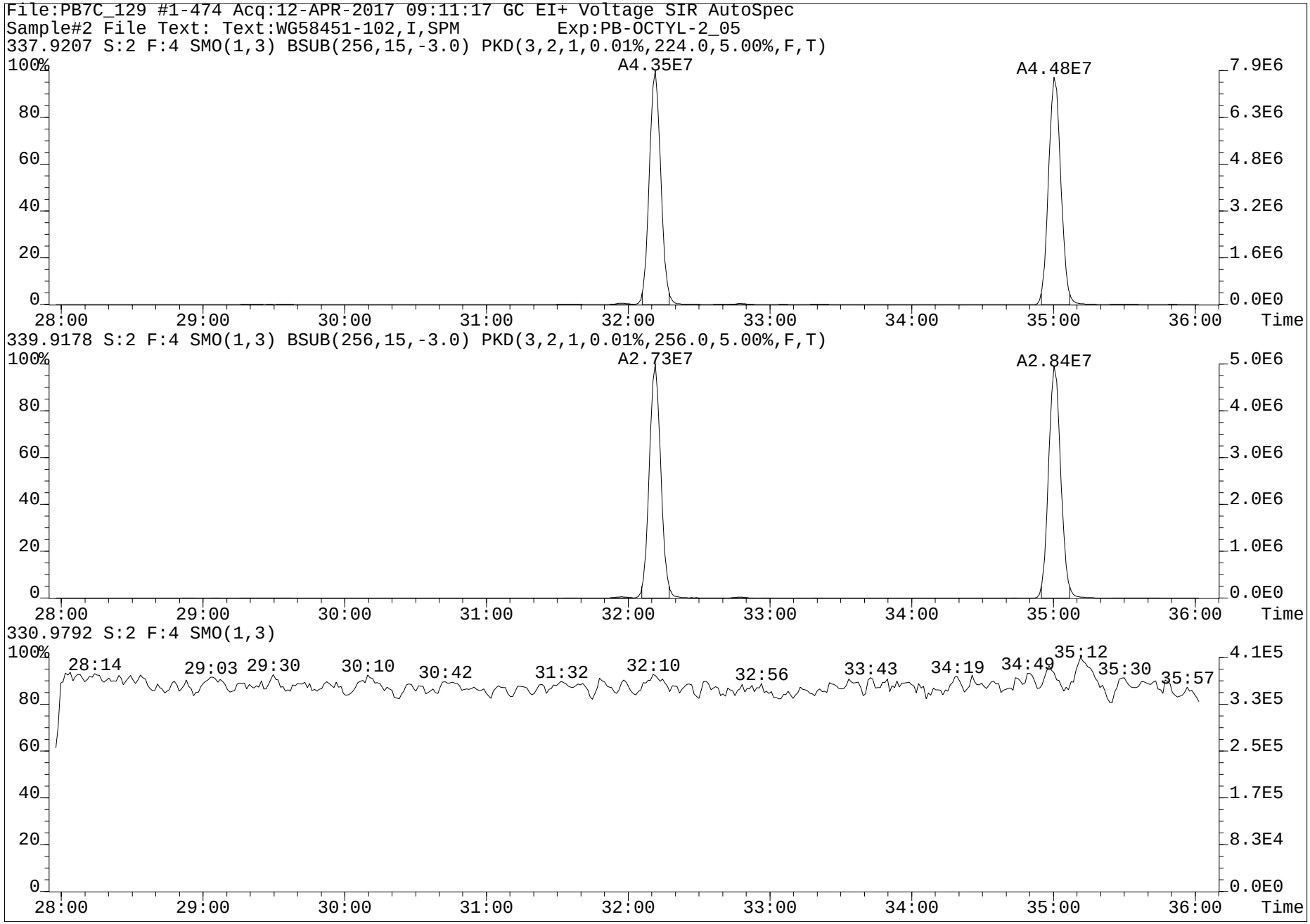

File:PB7C_129 #1-495 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
393.8025 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1044.0,5.00%,F,T)
A1.43E7
A1.99E6
395.7995 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1248.0,5.00%,F,T)
A1.38E7
A1.07E6
405.8428 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2100.0,5.00%,F,T)
A2.82E7
A4.00E6
407.8398 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2016.0,5.00%,F,T)
A2.67E7
A2.15E6
454.9728 S:2 F:6 SMO(1,3)
50:18
50:32
50:42
50:53
51:06
51:18
51:30
51:49
51:57
52:14
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
2.3E6
1.1E6
0.0E0
2.2E6
4.5E6
2.1E6
4.2E6
6.3E4
3.2E4


File:PB7C_129 #1-741 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
427.7635 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A1.03E7
1.7E6
8.5E5
0.0E0
429.7606 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.14E7
1.9E6
9.4E5
0.0E0
439.8038 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A2.39E7
3.9E6
2.0E6
0.0E0
441.8008 S:2 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A2.59E7
4.3E6
2.1E6
0.0E0
354.9792 S:2 F:5 SMO(1,3)
43:31
43:52
44:16
44:40
45:37
46:15
46:45
46:55
47:23
47:54
48:50
49:18
49:36
49:44
7.8E4
3.9E4
0.0E0
100%
50
0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
427.7635 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,892.0,5.00%,F,T)
A1.03E7
429.7606 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,884.0,5.00%,F,T)
A1.16E7
439.8038 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2844.0,5.00%,F,T)
A1.78E7
A2.12E7
441.8008 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2396.0,5.00%,F,T)
A1.90E7
A2.33E7
454.9728 S:2 F:6 SMO(1,3)
50:32
50:53
51:18
51:49
51:57
52:14
52:31
52:52
53:12
53:49
54:24
54:45
55:00
55:19
55:34
55:51
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.7E6
8.3E5
0.0E0
1.9E6
9.4E5
3.4E6
1.7E6
3.6E6
1.8E6
6.3E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
461.7245 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A7.48E6
A6.13E6
463.7216 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,668.0,5.00%,F,T)
A9.53E6
A7.95E6
473.7648 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,624.0,5.00%,F,T)
A1.68E7
A1.32E7
475.7619 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,520.0,5.00%,F,T)
A2.10E7
A1.67E7
454.9728 S:2 F:6 SMO(1,3)
50:32
50:53
51:18
51:49
51:57
52:14
52:31
52:52
53:12
53:49
54:24
54:45
55:00
55:19
55:34
55:51
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.2E6
6.2E5
0.0E0
1.6E6
7.9E5
2.7E6
1.4E6
3.4E6
1.7E6
6.3E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
497.6826 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A9.10E6
1.5E6
7.3E5
0.0E0
499.6797 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A7.70E6
1.2E6
6.1E5
0.0E0
509.7229 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A1.90E7
3.1E6
1.5E6
0.0E0
511.7199 S:2 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A1.60E7
2.6E6
1.3E6
0.0E0
454.9728 S:2 F:6 SMO(1,3)
56:34
56:39
56:53
57:04
57:14
57:20
57:40
57:58
5.2E4
2.6E4
0.0E0
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time


File:PB7C_129 #1-474 Acq:12-APR-2017 09:11:17 GC EI+ Voltage SIR AutoSpec
Sample#2 File Text: Text:WG58451-102,I,SPM Exp:PB-OCTYL-2_05
337.9207 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,224.0,5.00%,F,T)
A4.35E7
A4.48E7
339.9178 S:2 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A2.73E7
A2.84E7
330.9792 S:2 F:4 SMO(1,3)
28:14
29:03
29:30
30:10
30:42
31:32
32:10
32:56
33:43
34:19
34:49
35:12
35:30
35:57
Time

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Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : Octyl
Serial # : 54277-02A/5563╖
kPa : 299
Vol injected: 1.0uL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

Tune : XX
List : XX
Check :
LIMS :
Logfile:

Date -list : 27-NOV-2016
-liner : 26-NOV-2016
-septum: 26-NOV-2016
-guard : NEW 26-NOV-2016
-column: NEW 26-NOV-2016
-t line: NEW 26-NOV-2016

| # | Data file | S | V | Sample Text | Comments | Acquisition Date/Time |
|---|---|---|---|---|---|---|
| 1 | PB6C_435B | 1 | 1 | PB108A-CAL,,/01 CS057 | 1,,1.0uL CS-0.2/Sens | 27-NOV-16 09:12:21 |
| 2 | PB6C_435B | 2 | 2 | PB108A-CAL,,/01 CS058 | 1,,1.0uL CS-0.2/Sens | 27-NOV-16 10:16:42 |
| 3 | PB6C_435B | 3 | 3 | PB108C-CAL,,/01 CS157 | 1,,1.0uL CS-1 | 27-NOV-16 11:21:02 |
| 4 | PB6C_435B | 4 | 4 | PB108B-CAL,,/01 CS157 | 1,,1.0uL CS-1 | 27-NOV-16 12:25:19 |
| 5 | PB6C_435B | 5 | 5 | PB108G-CAL,,/01 CS557 | 1,,1.0uL CS-5 | 27-NOV-16 13:51:36 |
| 6 | PB6C_435B | 6 | 6 | PB108F-CAL,,/01 CS457 | 1,,1.0uL CS-4 | 27-NOV-16 14:55:58 |
| 7 | PB6C_435B | 7 | 7 | PB108E-CAL,,/01 CS357 | 1,,1.0uL CS-3 | 27-NOV-16 16:00:23 |
| 8 | PB6C_435B | 8 | 8 | PB108D-CAL,,/01 CS257 | 1,,1.0uL CS-2 | 27-NOV-16 17:04:44 |
| 9 | PB6C_435B | 9 | 9 | PB109A-CAL,,/01-38 CPS61+C | 1,,1.0uL Win/Res | 27-NOV-16 18:09:12 |
| 10 | PB6C_435B | 10 | 10 | PB108H-CAL,,/01 CS657 | 1,,1.0uL CS-6 | 27-NOV-16 19:13:34 |

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Run: pb6c_435b¶ Analyte: 1668A-C8 Cal: PB6C_435B¶ Results: pb6c_435b-6a Version: V3.6 6-JAN-2000 17:51:42

| Name | Mean RRF | S. D. | %RSD | B6C_435B S3 RRF#1 | SD | B6C_435B S8 RRF#2 | SD | B6C_435B S7 RRF#3 | SD | B6C_435B S6 RRF#4 | SD | B6C_435B S5 RRF#5 | SD | B6C_435B S10 RRF#6 | SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CL1-PCB-1 | 1.0920 | 0.025 | 2.26 % | 1.06 | -1.2 | 1.09 | 0.0 | 1.11 | 0.7 | 1.12 | 1.2 | 1.07 | -0.8 | * | * |
| CL1-PCB-3 | 1.0946 | 0.036 | 3.31 % | 1.04 | -1.6 | 1.08 | -0.3 | 1.11 | 0.4 | 1.11 | 0.5 | 1.13 | 1.0 | * | * |
| CL2-PCB-4 | 1.0239 | 0.050 | 4.89 % | 0.95 | -1.5 | 1.01 | -0.3 | 1.03 | 0.2 | 1.05 | 0.5 | 1.08 | 1.1 | * | * |
| CL2-PCB-15 | 0.9287 | 0.047 | 5.05 % | 0.87 | -1.3 | 0.89 | -0.8 | 0.94 | 0.2 | 0.96 | 0.7 | 0.98 | 1.1 | * | * |
| CL3-PCB-19 | 0.9873 | 0.047 | 4.73 % | 0.91 | -1.6 | 0.95 | -0.7 | 1.00 | 0.2 | 1.01 | 0.6 | 1.04 | 1.1 | 1.01 | 0.5 |
| CL3-PCB-37 | 1.0118 | 0.040 | 3.97 % | 0.95 | -1.4 | 0.98 | -0.7 | 1.02 | 0.2 | 1.05 | 0.9 | 1.06 | 1.3 | 1.00 | -0.2 |
| CL4-PCB-54 | 1.0405 | 0.034 | 3.28 % | 0.99 | -1.4 | 1.02 | -0.6 | 1.04 | 0.1 | 1.06 | 0.7 | 1.09 | 1.4 | 1.04 | -0.2 |
| CL4-PCB-81 | 1.0239 | 0.044 | 4.28 % | 0.97 | -1.2 | 0.98 | -1.0 | 1.02 | -0.1 | 1.06 | 0.9 | 1.08 | 1.2 | 1.03 | 0.2 |
| CL4-PCB-77 | 1.0053 | 0.061 | 6.08 % | 0.92 | -1.4 | 0.96 | -0.7 | 0.98 | -0.5 | 1.06 | 0.8 | 1.08 | 1.2 | 1.04 | 0.5 |
| CL5-PCB-104 | 1.0472 | 0.046 | 4.36 % | 0.98 | -1.6 | 1.02 | -0.6 | 1.06 | 0.3 | 1.06 | 0.2 | 1.11 | 1.4 | 1.06 | 0.3 |
| CL5-PCB-123 | 0.9711 | 0.051 | 5.21 % | 0.90 | -1.4 | 0.93 | -0.9 | 0.96 | -0.2 | 1.00 | 0.6 | 1.03 | 1.2 | 1.01 | 0.8 |
| CL5-PCB-118 | 1.0228 | 0.057 | 5.53 % | 0.93 | -1.6 | 0.98 | -0.8 | 1.03 | 0.1 | 1.05 | 0.5 | 1.08 | 0.9 | 1.07 | 0.8 |
| CL5-PCB-114 | 1.0623 | 0.061 | 5.79 % | 0.97 | -1.6 | 1.02 | -0.8 | 1.06 | 0.0 | 1.10 | 0.6 | 1.13 | 1.1 | 1.10 | 0.7 |
| CL5-PCB-105 | 1.0174 | 0.063 | 6.14 % | 0.91 | -1.8 | 0.99 | -0.4 | 1.02 | 0.1 | 1.05 | 0.5 | 1.08 | 0.9 | 1.06 | 0.7 |
| CL5-PCB-126 | 1.0270 | 0.057 | 5.56 % | 0.94 | -1.6 | 0.98 | -0.8 | 1.04 | 0.2 | 1.06 | 0.5 | 1.09 | 1.0 | 1.07 | 0.7 |
| CL6-PCB-155 | 1.0067 | 0.040 | 3.97 % | 0.97 | -0.8 | 0.96 | -1.2 | 0.99 | -0.3 | 1.03 | 0.5 | 1.07 | 1.5 | 1.02 | 0.3 |
| CL6-PCB-167 | 1.1062 | 0.057 | 5.11 % | 1.02 | -1.6 | 1.06 | -0.7 | 1.10 | 0.0 | 1.13 | 0.5 | 1.17 | 1.2 | 1.14 | 0.6 |
| CL6-PCB-156/157 | 1.0785 | 0.046 | 4.27 % | 1.01 | -1.5 | 1.04 | -0.8 | 1.08 | 0.0 | 1.11 | 0.8 | 1.13 | 1.0 | 1.10 | 0.5 |
| CL6-PCB-169 | 1.0205 | 0.061 | 5.97 % | 0.92 | -1.7 | 0.99 | -0.5 | 1.01 | -0.1 | 1.06 | 0.7 | 1.08 | 1.0 | 1.06 | 0.7 |
| CL7-PCB-188 | 0.9483 | 0.045 | 4.72 % | 0.88 | -1.5 | 0.92 | -0.7 | 0.95 | 0.0 | 0.97 | 0.6 | 1.01 | 1.3 | 0.97 | 0.4 |
| CL7-PCB-189 | 1.0039 | 0.038 | 3.76 % | 0.96 | -1.1 | 0.96 | -1.3 | 1.00 | 0.0 | 1.03 | 0.6 | 1.04 | 1.0 | 1.04 | 0.8 |
| CL8-PCB-202 | 0.8555 | 0.042 | 4.92 % | 0.79 | -1.5 | 0.82 | -0.9 | 0.86 | 0.0 | 0.88 | 0.6 | 0.90 | 1.1 | 0.88 | 0.7 |
| CL8-PCB-205 | 0.9516 | 0.038 | 4.03 % | 0.89 | -1.6 | 0.93 | -0.4 | 0.94 | -0.2 | 0.97 | 0.4 | 1.00 | 1.2 | 0.98 | 0.6 |
| CL9-PCB-208 | 0.9089 | 0.039 | 4.34 % | 0.85 | -1.4 | 0.87 | -0.9 | 0.90 | -0.2 | 0.94 | 0.7 | 0.95 | 1.0 | 0.94 | 0.8 |
| CL9-PCB-206 | 0.9342 | 0.068 | 7.24 % | 0.81 | -1.8 | 0.91 | -0.4 | 0.93 | 0.0 | 0.97 | 0.6 | 1.00 | 1.0 | 0.97 | 0.6 |
| CL10-PCB-209 | 1.0179 | 0.044 | 4.30 % | 0.97 | -1.1 | 0.96 | -1.3 | 1.01 | -0.2 | 1.05 | 0.7 | 1.06 | 1.1 | 1.05 | 0.8 |
| 13C-CL1-PCB-1 | 1.0399 | 0.037 | 3.54 % | 1.00 | -1.1 | 1.01 | -0.8 | 1.02 | -0.6 | 1.05 | 0.3 | 1.08 | 1.1 | 1.08 | 1.2 |
| 13C-CL1-PCB-3 | 1.0141 | 0.060 | 5.92 % | 0.95 | -1.0 | 0.95 | -1.0 | 0.99 | -0.5 | 1.04 | 0.4 | 1.05 | 0.6 | 1.10 | 1.5 |
| 13C-CL2-PCB-4 | 0.6674 | 0.017 | 2.51 % | 0.65 | -1.0 | 0.65 | -1.0 | 0.66 | -0.5 | 0.68 | 0.5 | 0.67 | 0.4 | 0.69 | 1.6 |
| 13C-CL2-PCB-15 | 1.0928 | 0.069 | 6.29 % | 1.02 | -1.0 | 1.02 | -1.1 | 1.07 | -0.4 | 1.12 | 0.3 | 1.14 | 0.6 | 1.19 | 1.5 |
| 13C-CL3-PCB-19 | 0.5970 | 0.016 | 2.75 % | 0.58 | -1.1 | 0.58 | -0.9 | 0.59 | -0.4 | 0.60 | 0.1 | 0.61 | 0.9 | 0.62 | 1.4 |
| 13C-CL3-PCB-37 | 1.7143 | 0.141 | 8.24 % | 1.58 | -0.9 | 1.60 | -0.8 | 1.62 | -0.7 | 1.74 | 0.2 | 1.80 | 0.6 | 1.94 | 1.6 |
| 13C-CL4-CHECK | 1.4025 | 0.050 | 3.59 % | 1.37 | -0.7 | 1.40 | -0.1 | 1.37 | -0.6 | 1.36 | -0.8 | 1.42 | 0.4 | 1.49 | 1.8 |
| 13C-CL4-PCB-81 | 1.3875 | 0.110 | 7.92 % | 1.27 | -1.0 | 1.31 | -0.7 | 1.32 | -0.6 | 1.41 | 0.2 | 1.45 | 0.6 | 1.56 | 1.6 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13C-CL4-PCB-77 | 1.4305 | 0.088 | 6.16 % | 1.34 | -1.0 | 1.36 | -0.8 | 1.40 | -0.4 | 1.45 | 0.3 | 1.46 | 0.3 | 1.58 | 1.7 |
| 13C-CL5-PCB-104 | 1.4703 | 0.090 | 6.12 % | 1.40 | -0.7 | 1.44 | -0.4 | 1.41 | -0.7 | 1.46 | -0.1 | 1.47 | 0.0 | 1.65 | 1.9 |
| 13C-CL5-PCB-123 | 1.3184 | 0.098 | 7.41 % | 1.22 | -1.0 | 1.23 | -0.9 | 1.28 | -0.4 | 1.34 | 0.2 | 1.37 | 0.5 | 1.48 | 1.6 |
| 13C-CL5-PCB-118 | 1.3010 | 0.098 | 7.55 % | 1.20 | -1.0 | 1.22 | -0.9 | 1.24 | -0.6 | 1.33 | 0.3 | 1.36 | 0.5 | 1.46 | 1.6 |
| 13C-CL5-PCB-114 | 1.2613 | 0.122 | 9.66 % | 1.15 | -0.9 | 1.16 | -0.9 | 1.19 | -0.6 | 1.29 | 0.3 | 1.32 | 0.5 | 1.46 | 1.6 |
| 13C-CL5-PCB-105 | 1.2944 | 0.094 | 7.26 % | 1.20 | -1.0 | 1.21 | -0.9 | 1.25 | -0.5 | 1.34 | 0.4 | 1.32 | 0.3 | 1.45 | 1.7 |
| 13C-CL5-PCB-126 | 1.1856 | 0.113 | 9.52 % | 1.08 | -0.9 | 1.08 | -0.9 | 1.13 | -0.5 | 1.23 | 0.4 | 1.22 | 0.3 | 1.37 | 1.7 |
| 13C-CL6-PCB-155 | 1.7404 | 0.159 | 9.12 % | 1.64 | -0.7 | 1.65 | -0.6 | 1.67 | -0.5 | 1.64 | -0.6 | 1.81 | 0.4 | 2.04 | 1.9 |
| 13C-CL6-PCB-167 | 1.2632 | 0.128 | 10.16 % | 1.17 | -0.7 | 1.17 | -0.7 | 1.19 | -0.5 | 1.24 | -0.2 | 1.30 | 0.3 | 1.51 | 1.9 |
| 13C-CL6-PCB-156/157 | 1.3174 | 0.176 | 13.33 % | 1.19 | -0.7 | 1.18 | -0.8 | 1.21 | -0.6 | 1.29 | -0.2 | 1.39 | 0.4 | 1.64 | 1.8 |
| 13C-CL6-PCB-169 | 1.2564 | 0.164 | 13.06 % | 1.15 | -0.6 | 1.13 | -0.8 | 1.16 | -0.6 | 1.24 | -0.1 | 1.29 | 0.2 | 1.57 | 1.9 |
| 13C-CL7-CHECK | 2.5018 | 0.275 | 11.00 % | 2.28 | -0.8 | 2.42 | -0.3 | 2.33 | -0.6 | 2.35 | -0.6 | 2.62 | 0.4 | 3.01 | 1.8 |
| 13C-CL7-PCB-189 | 1.6300 | 0.236 | 14.45 % | 1.44 | -0.8 | 1.49 | -0.6 | 1.50 | -0.6 | 1.57 | -0.2 | 1.70 | 0.3 | 2.07 | 1.9 |
| 13C-CL8-PCB-202 | 2.3184 | 0.175 | 7.54 % | 2.21 | -0.6 | 2.28 | -0.2 | 2.22 | -0.6 | 2.19 | -0.7 | 2.36 | 0.2 | 2.65 | 1.9 |
| 13C-CL8-PCB-205 | 1.5246 | 0.220 | 14.42 % | 1.38 | -0.7 | 1.38 | -0.6 | 1.37 | -0.7 | 1.47 | -0.3 | 1.60 | 0.4 | 1.94 | 1.9 |
| 13C-CL9-PCB-208 | 1.4604 | 0.163 | 11.13 % | 1.35 | -0.7 | 1.37 | -0.6 | 1.35 | -0.7 | 1.40 | -0.4 | 1.53 | 0.4 | 1.76 | 1.9 |
| 13C-CL9-PCB-206 | 1.1045 | 0.150 | 13.62 % | 1.01 | -0.6 | 1.01 | -0.7 | 1.01 | -0.7 | 1.06 | -0.3 | 1.15 | 0.3 | 1.39 | 1.9 |
| 13C-CL10-PCB-209 | 1.3904 | 0.175 | 12.58 % | 1.31 | -0.4 | 1.27 | -0.7 | 1.26 | -0.8 | 1.32 | -0.4 | 1.46 | 0.4 | 1.71 | 1.9 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13C-CL2-PCB-9 | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| 13C-CL4-PCB-52 | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| 13C-CL5-PCB-101 | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| 13C-CL6-PCB-138 | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| 13C-CL8-PCB-194 | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| 13C-CL3-PCB-28 | 1.6910 | 0.012 | 0.69 | % | 1.68 | -1.0 | 1.71 | 1.2 | 1.69 | 0.0 | 1.71 | 1.2 | 1.68 | -0.6 | 1.68 | -0.9 |
| 13C-CL5-PCB-111 | 1.3115 | 0.058 | 4.42 | % | 1.25 | -1.1 | 1.25 | -1.0 | 1.29 | -0.3 | 1.34 | 0.5 | 1.34 | 0.5 | 1.39 | 1.4 |
| 13C-CL7-PCB-178 | 0.9870 | 0.014 | 1.38 | % | 0.99 | 0.2 | 0.99 | 0.3 | 0.98 | -0.4 | 0.97 | -1.3 | 1.01 | 1.7 | 0.98 | -0.4 |
| 13C-CL4-PCB-54 | 1.4025 | 0.050 | 3.59 | % | 1.37 | -0.7 | 1.40 | -0.1 | 1.37 | -0.6 | 1.36 | -0.8 | 1.42 | 0.4 | 1.49 | 1.8 |
| 13C-CL7-PCB-188 | 2.5018 | 0.275 | 11.00 | % | 2.28 | -0.8 | 2.42 | -0.3 | 2.33 | -0.6 | 2.35 | -0.6 | 2.62 | 0.4 | 3.01 | 1.8 |
| CL1-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL2-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL3-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL3,4,5-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL4,5-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL5-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL6-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL6,7-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL7-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL8-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL8,9-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |
| CL10-LOCK | - | - | - | % | - | - | - | - | - | - | - | - | - | - | - | - |

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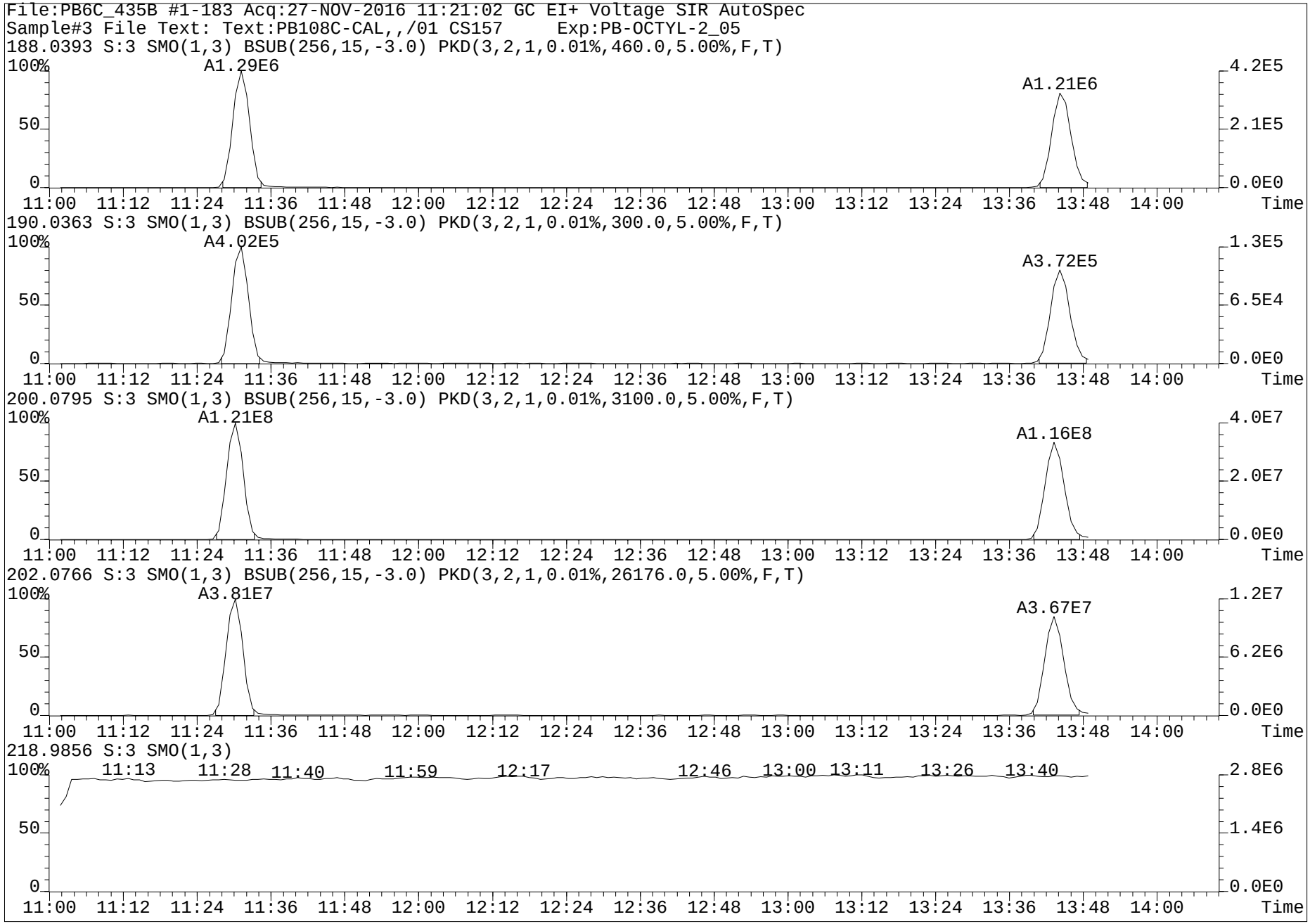


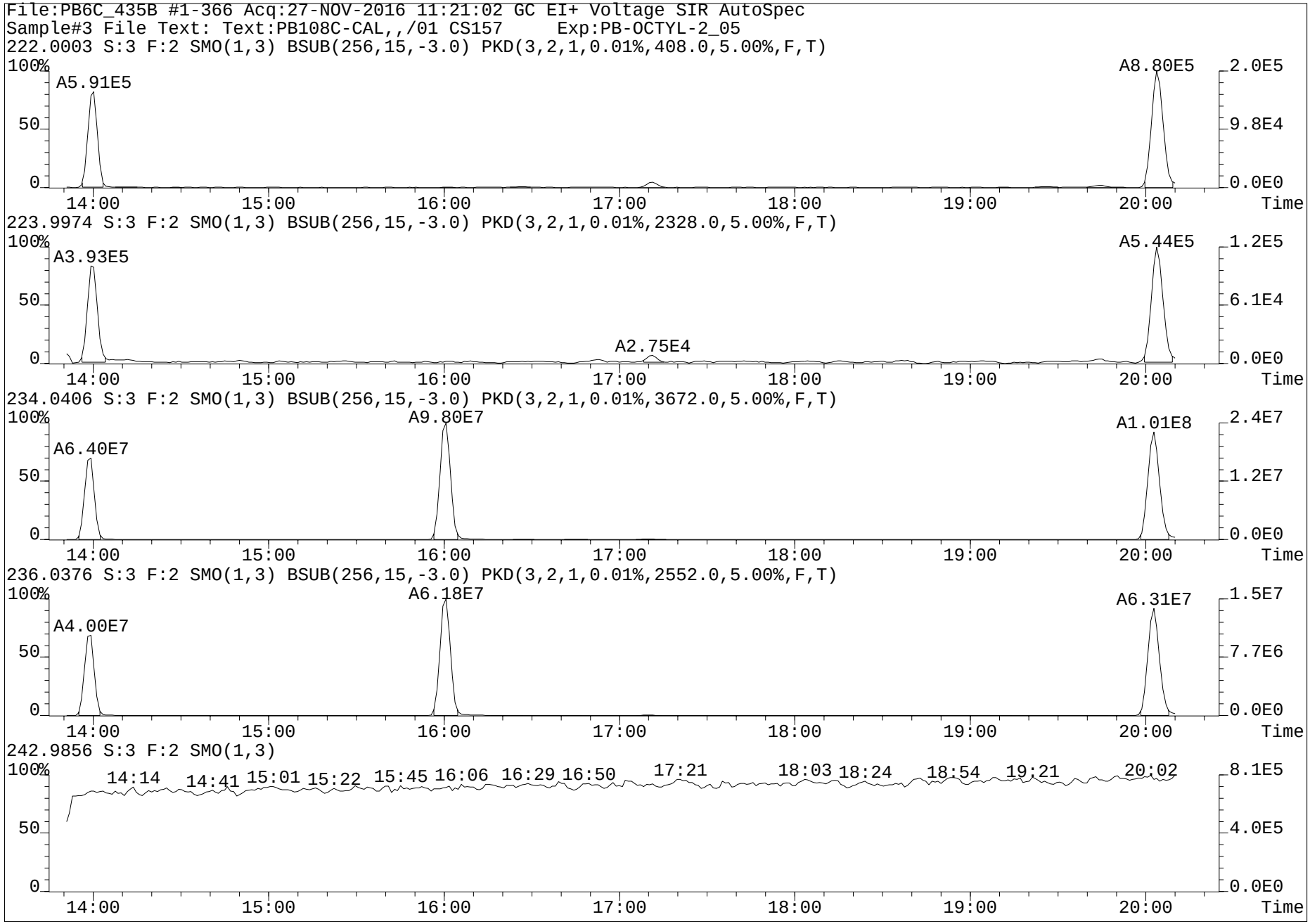
Run #2 Filename PB6C_435B S: 3 I: 1 Acquired: 27-NOV-16 11:21:02 Processed: 28-NOV-16 14:50:11
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: PB9C_274A-CAL Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108C-CAL,,/01 CS157 Comments: 1,,1.0uL CS-1 F1: 1.00 F2: 1.00

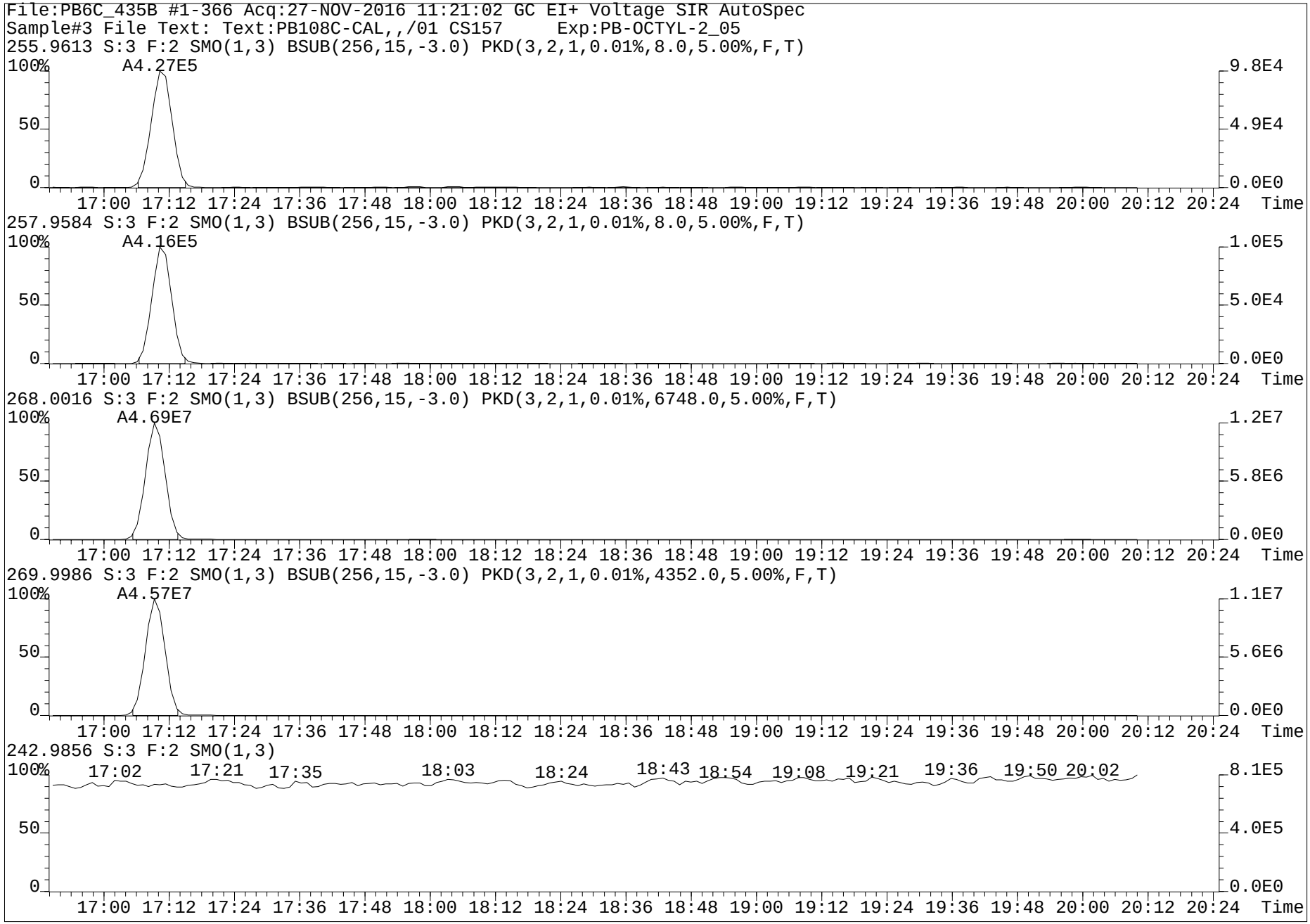
| | Typ | Name | Amount | Resp | RA | RT | s/n | RF | RRF | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1.00 | 1.70e+06 | 3.22 y | 11:31 | 9.1e+02 | - | 1.0627 | y n |
| 2 | Unk | CL1-PCB-3 | 1.00 | 1.58e+06 | 3.26 y | 13:44 | 7.4e+02 | - | 1.0375 | y n |
| 3 | Unk | CL2-PCB-4 | 1.00 | 9.85e+05 | 1.50 y | 14:00 | 3.9e+02 | - | 0.9467 | y n |
| 4 | Unk | CL2-PCB-15 | 1.00 | 1.42e+06 | 1.62 y | 20:04 | 4.8e+02 | - | 0.8700 | y n |
| 5 | Unk | CL3-PCB-19 | 1.00 | 8.43e+05 | 1.03 y | 17:10 | 1.2e+04 | - | 0.9109 | y n |
| 6 | Unk | CL3-PCB-37 | 1.00 | 1.35e+06 | 1.08 y | 27:22 | 5.4e+02 | - | 0.9546 | y n |
| 7 | Unk | CL4-PCB-54 | 1.00 | 1.21e+06 | 0.79 y | 20:22 | 1.5e+04 | - | 0.9925 | y n |
| 8 | Unk | CL4-PCB-81 | 1.00 | 1.10e+06 | 0.77 y | 34:25 | 5.8e+02 | - | 0.9704 | y n |
| 9 | Unk | CL4-PCB-77 | 1.00 | 1.10e+06 | 0.84 y | 35:00 | 6.0e+02 | - | 0.9217 | y n |
| 10 | Unk | CL5-PCB-104 | 1.00 | 1.09e+06 | 1.65 y | 26:05 | 1.8e+04 | - | 0.9757 | y n |
| 11 | Unk | CL5-PCB-123 | 1.00 | 8.76e+05 | 1.56 y | 37:06 | 7.1e+02 | - | 0.9005 | y n |
| 12 | Unk | CL5-PCB-118 | 1.00 | 8.93e+05 | 1.61 y | 37:27 | 7.0e+02 | - | 0.9324 | y n |
| 13 | Unk | CL5-PCB-114 | 1.00 | 8.85e+05 | 1.51 y | 38:00 | 6.7e+02 | - | 0.9653 | y n |
| 14 | Unk | CL5-PCB-105 | 1.00 | 8.71e+05 | 1.47 y | 38:40 | 6.9e+02 | - | 0.9063 | y n |
| 15 | Unk | CL5-PCB-126 | 1.00 | 8.06e+05 | 1.49 y | 41:55 | 6.2e+02 | - | 0.9358 | y n |
| 16 | Unk | CL6-PCB-155 | 1.00 | 1.14e+06 | 1.21 y | 32:01 | 1.0e+04 | - | 0.9732 | y n |
| 17 | Unk | CL6-PCB-167 | 1.00 | 8.56e+05 | 1.36 y | 43:52 | 7.2e+03 | - | 1.0184 | y n |
| 18 | Unk | CL6-PCB-156/157 | 2.00 | 1.73e+06 | 1.31 y | 45:04 | 1.1e+04 | - | 1.0087 | y n |
| 19 | Unk | CL6-PCB-169 | 1.00 | 7.58e+05 | 1.25 y | 48:28 | 6.1e+03 | - | 0.9156 | y n |
| 20 | Unk | CL7-PCB-188 | 1.00 | 9.23e+05 | 1.11 y | 38:00 | 1.2e+04 | - | 0.8805 | y n |
| 21 | Unk | CL7-PCB-189 | 1.00 | 6.36e+05 | 0.93 y | 51:08 | 4.8e+03 | - | 0.9607 | y n |
| 22 | Unk | CL8-PCB-202 | 1.00 | 8.04e+05 | 0.87 y | 43:37 | 8.7e+03 | - | 0.7935 | y n |
| 23 | Unk | CL8-PCB-205 | 1.00 | 5.64e+05 | 0.90 y | 53:50 | 6.3e+03 | - | 0.8889 | y n |
| 24 | Unk | CL9-PCB-208 | 1.00 | 5.29e+05 | 0.75 y | 50:38 | 5.0e+03 | - | 0.8536 | y n |
| 25 | Unk | CL9-PCB-206 | 1.00 | 3.77e+05 | 0.77 y | 55:39 | 3.7e+03 | - | 0.8145 | y n |
| 26 | Unk | CL10-PCB-209 | 1.00 | 5.87e+05 | 1.22 y | 57:20 | 7.7e+03 | - | 0.9710 | y n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.60e+08 | 3.19 y | 11:30 | 1.3e+04 | - | 0.9980 | y n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.52e+08 | 3.15 y | 13:43 | 1.1e+04 | - | 0.9540 | y n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 1.04e+08 | 1.60 y | 13:59 | 4.6e+03 | - | 0.6507 | y n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.64e+08 | 1.60 y | 20:03 | 6.1e+03 | - | 1.0243 | y n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 9.26e+07 | 1.03 y | 17:09 | 1.7e+03 | - | 0.5794 | y n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.41e+08 | 1.04 y | 27:21 | 1.2e+03 | - | 1.5843 | y n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.22e+08 | 0.80 y | 20:20 | 6.8e+03 | - | 1.3690 | y n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.14e+08 | 0.77 y | 34:24 | 4.6e+03 | - | 1.2725 | y n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.19e+08 | 0.78 y | 34:59 | 4.8e+03 | - | 1.3383 | y n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.12e+08 | 1.55 y | 26:03 | 1.2e+06 | - | 1.4033 | y n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 9.72e+07 | 1.59 y | 37:05 | 3.9e+03 | - | 1.2190 | y n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 9.58e+07 | 1.58 y | 37:26 | 3.9e+03 | - | 1.2012 | y n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 9.17e+07 | 1.60 y | 37:59 | 3.8e+03 | - | 1.1496 | y n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 9.61e+07 | 1.63 y | 38:39 | 4.0e+03 | - | 1.2047 | y n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 8.61e+07 | 1.57 y | 41:53 | 3.4e+03 | - | 1.0797 | y n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.18e+08 | 1.25 y | 31:59 | 1.0e+06 | - | 1.6362 | y n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 8.40e+07 | 1.25 y | 43:50 | 7.2e+05 | - | 1.1700 | y n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.72e+08 | 1.26 y | 45:03 | 1.1e+06 | - | 1.1947 | y n |

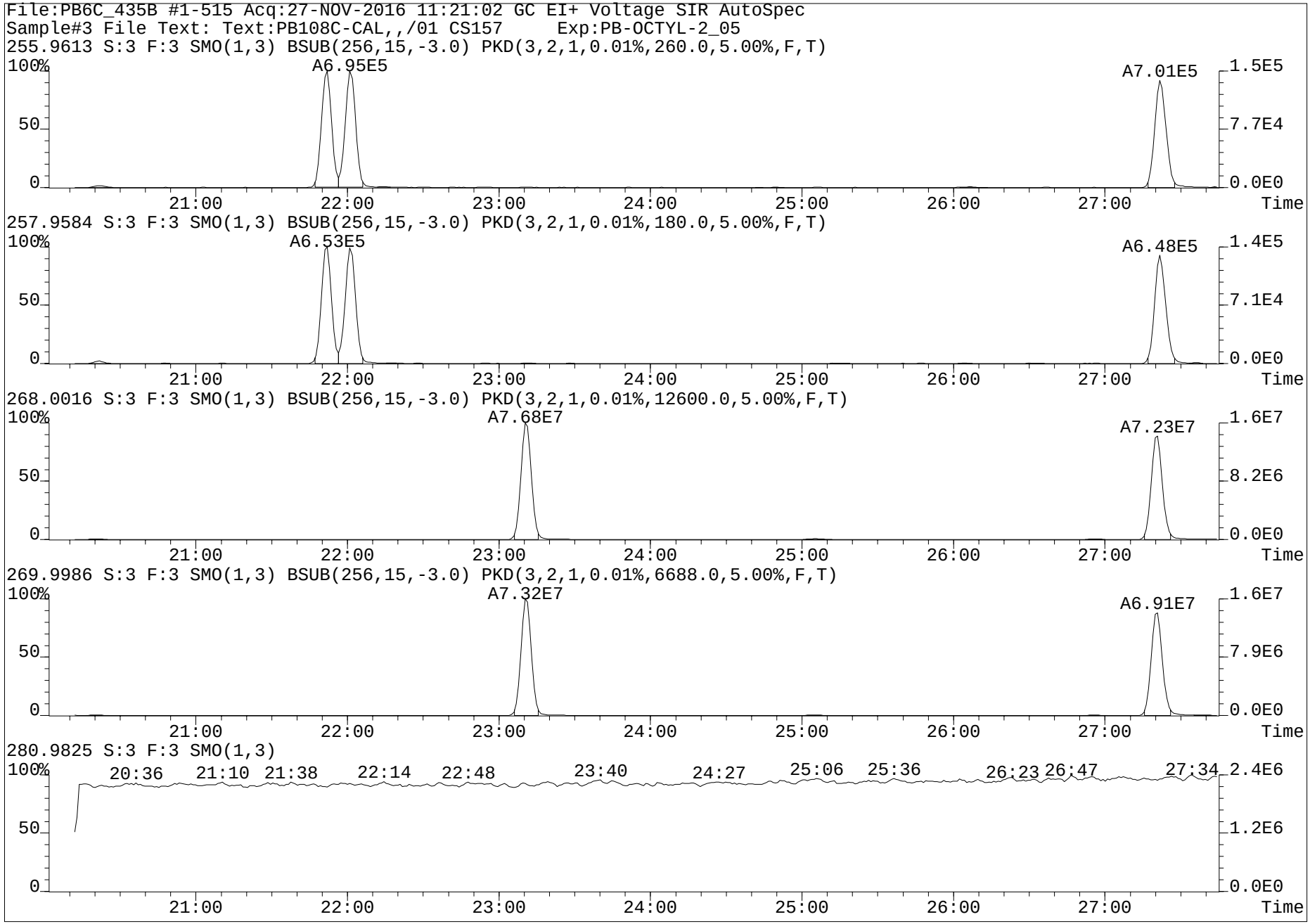
SV. JS 29-Nov-16
PV'd by PL 29 Nov 16

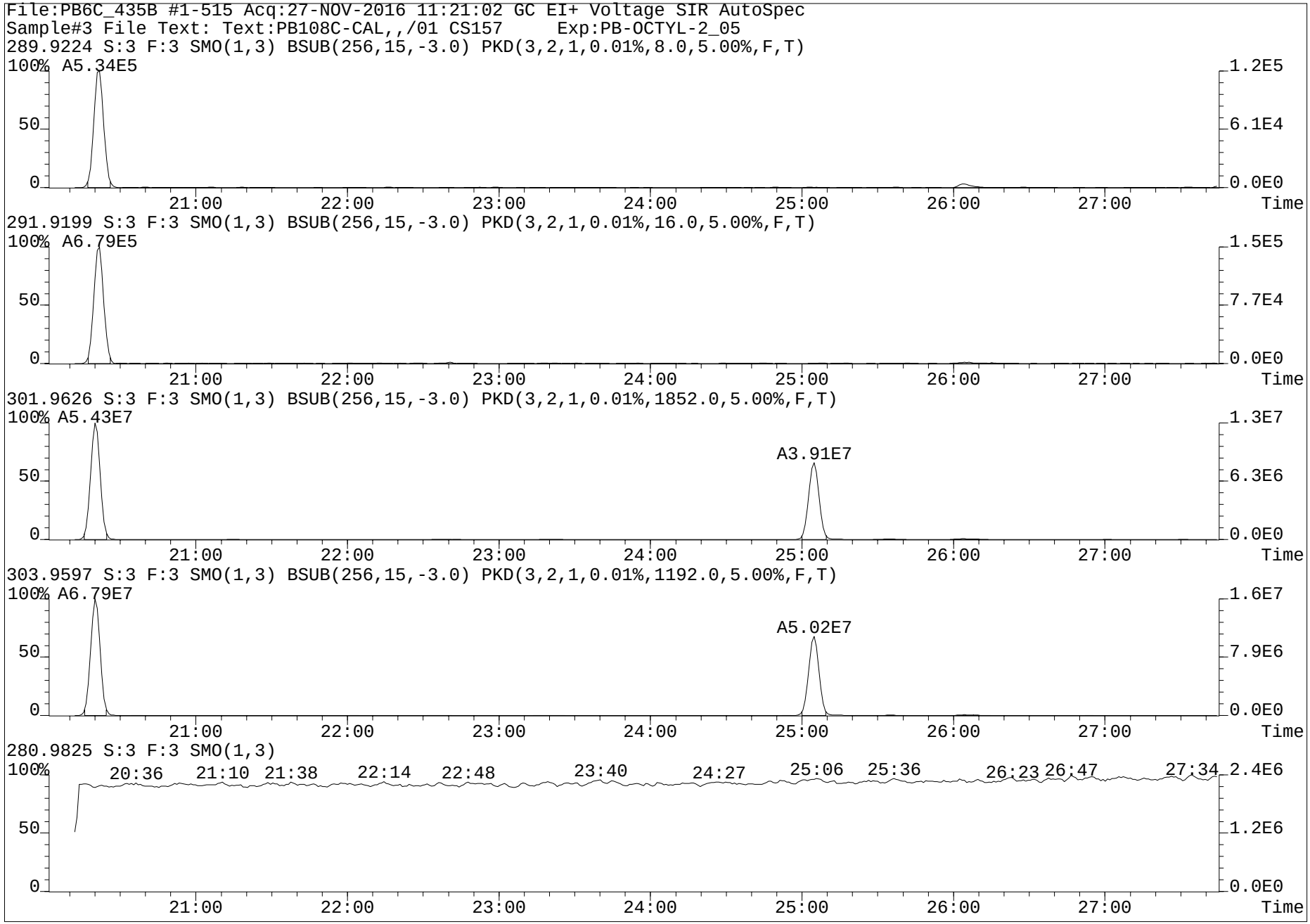
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 8.28e+07 | 1.26 | y | 48:26 | 6.9e+05 | - | 1.1529 | y n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 1.05e+08 | 1.06 | y | 37:58 | 1.2e+06 | - | 2.2821 | y n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 6.62e+07 | 1.06 | y | 51:06 | 8.3e+03 | - | 1.4407 | y n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 1.01e+08 | 0.92 | y | 43:35 | 1.1e+06 | - | 2.2060 | y n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 6.34e+07 | 0.92 | y | 53:48 | 4.4e+05 | - | 1.3806 | y n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 6.20e+07 | 0.80 | y | 50:36 | 6.2e+05 | - | 1.3502 | y n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 4.63e+07 | 0.79 | y | 55:38 | 4.6e+05 | - | 1.0088 | y n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 6.04e+07 | 1.19 | y | 57:19 | 4.7e+05 | - | 1.3149 | y n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.60e+08 | 1.59 | y | 16:00 | 6.6e+03 | 1.60e+06 | - | n n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 8.93e+07 | 0.78 | y | 25:05 | 4.5e+03 | 8.93e+05 | - | n n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 7.98e+07 | 1.59 | y | 32:13 | 3.3e+04 | 7.98e+05 | - | n n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 7.18e+07 | 1.28 | y | 40:41 | 6.0e+05 | 7.18e+05 | - | n n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 4.59e+07 | 0.92 | y | 53:18 | 3.2e+05 | 4.59e+05 | - | n n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.50e+08 | 1.05 | y | 23:10 | 1.3e+03 | - | 1.6797 | y n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 9.94e+07 | 1.58 | y | 35:02 | 4.0e+04 | - | 1.2466 | y n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 7.11e+07 | 1.05 | y | 41:10 | 8.3e+05 | - | 0.9902 | y n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.22e+08 | 0.80 | y | 20:20 | 6.8e+03 | - | 1.3690 | y n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 1.05e+08 | 1.06 | y | 37:58 | 1.2e+06 | - | 2.2821 | y n |
| 63 | LM | CL1-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 64 | LM | CL2-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 65 | LM | CL3-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 68 | LM | CL5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 69 | LM | CL6-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 71 | LM | CL7-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 72 | LM | CL8-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 74 | LM | CL10-LOCK | 0.00 | - | | | - | - | - | - | n n |

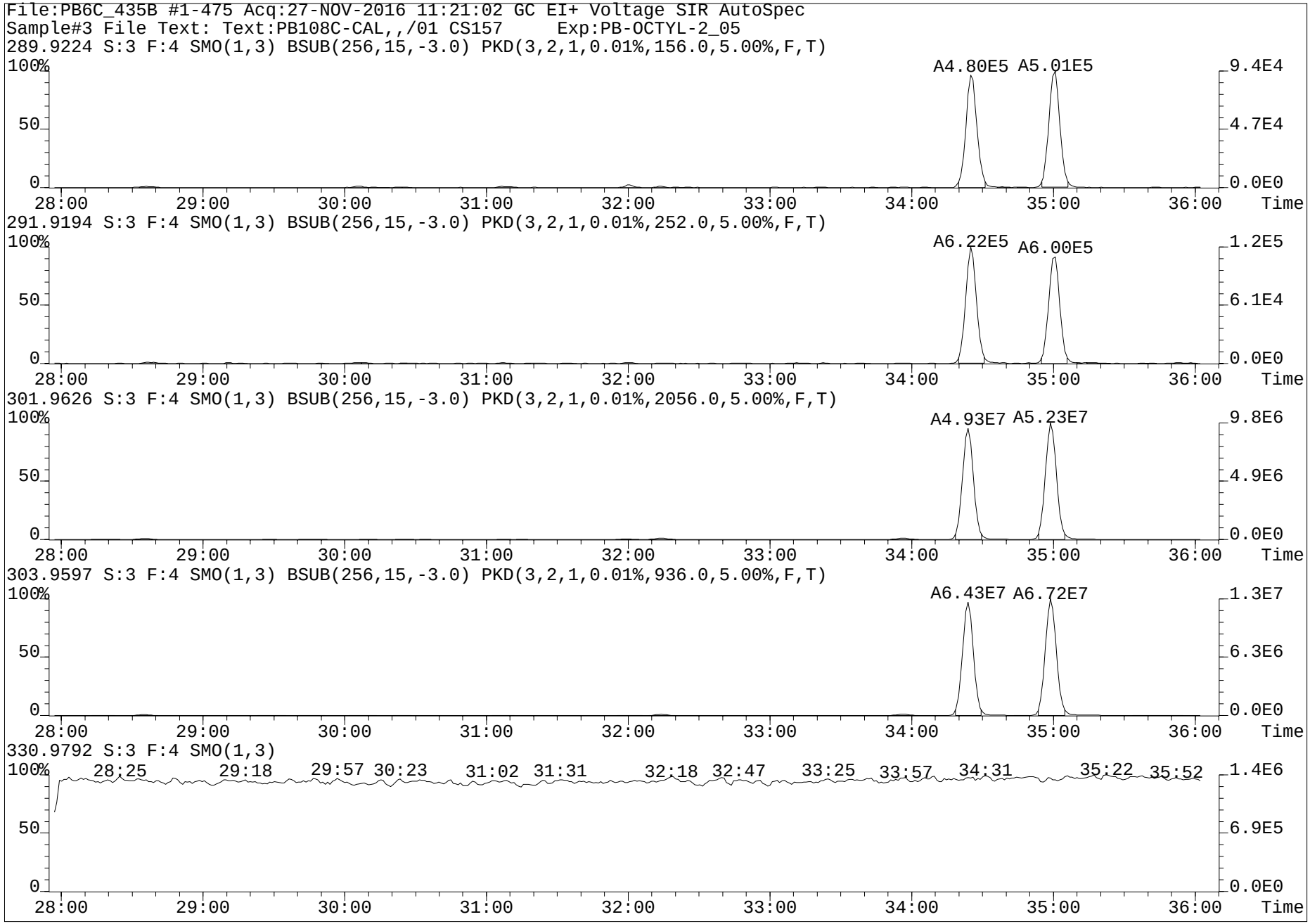

File:PB6C_435B #1-183 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
188.0393 S:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,460.0,5.00%,F,T)
A1.29E6
A1.21E6
190.0363 S:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,300.0,5.00%,F,T)
A4.02E5
A3.72E5
200.0795 S:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3100.0,5.00%,F,T)
A1.21E8
A1.16E8
202.0766 S:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,26176.0,5.00%,F,T)
A3.81E7
A3.67E7
218.9856 S:3 SMO(1,3)
11:13 11:28 11:40 11:59 12:17 12:46 13:00 13:11 13:26 13:40
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
4.2E5
2.1E5
0.0E0
1.3E5
6.5E4
4.0E7
2.0E7
1.2E7
6.2E6
2.8E6
1.4E6

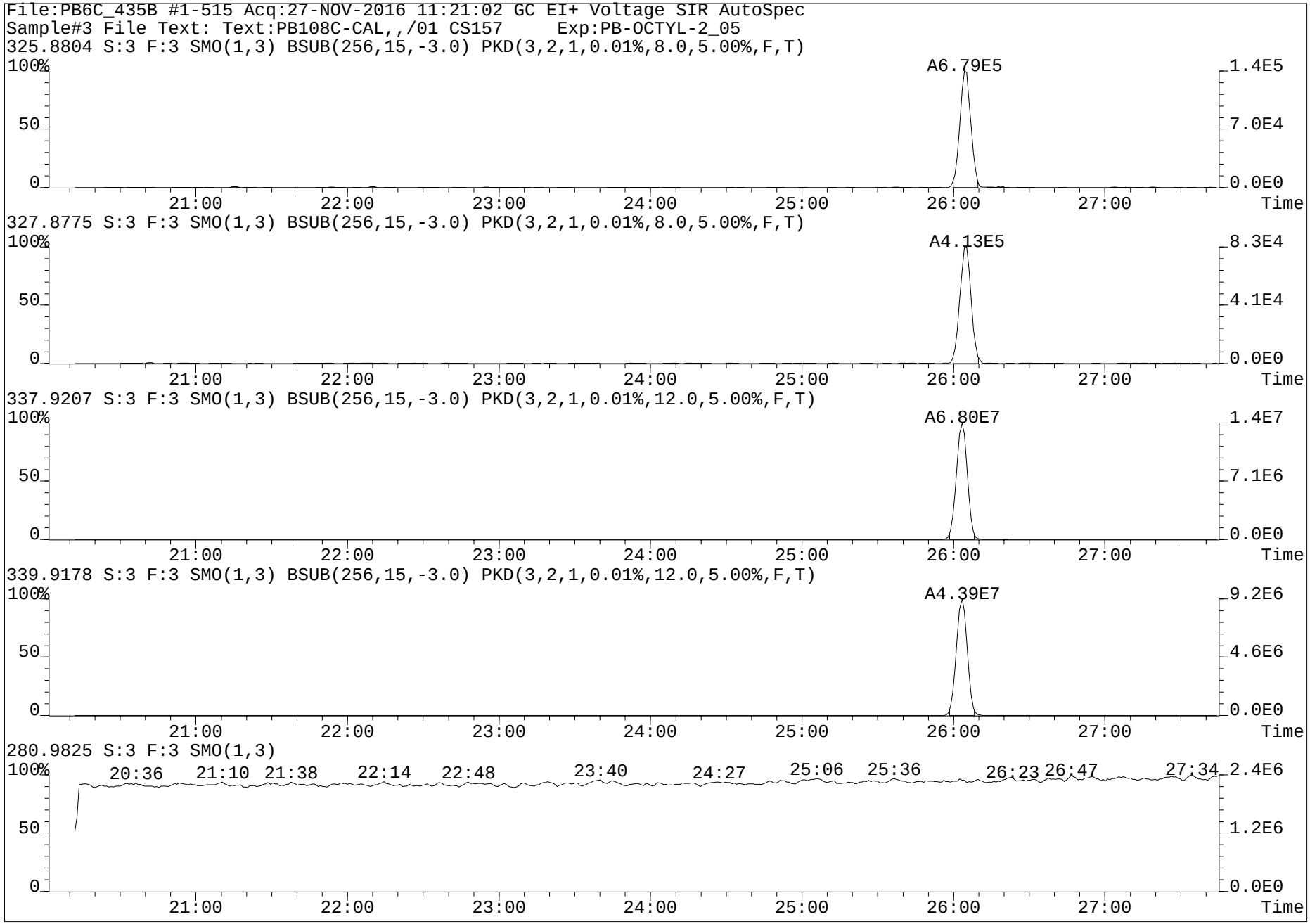

File:PB6C_435B #1-366 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
222.0003 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A5.91E5
A8.80E5
223.9974 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2328.0,5.00%,F,T)
A3.93E5
A2.75E4
A5.44E5
234.0406 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3672.0,5.00%,F,T)
A6.40E7
A9.80E7
A1.01E8
236.0376 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2552.0,5.00%,F,T)
A4.00E7
A6.18E7
A6.31E7
242.9856 S:3 F:2 SMO(1,3)
14:14 14:41 15:01 15:22 15:45 16:06 16:29 16:50 17:21 18:03 18:24 18:54 19:21 20:02
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
2.0E5 9.8E4 0.0E0
1.2E5 6.1E4 0.0E0
2.4E7 1.2E7 0.0E0
1.5E7 7.7E6 0.0E0
8.1E5 4.0E5 0.0E0

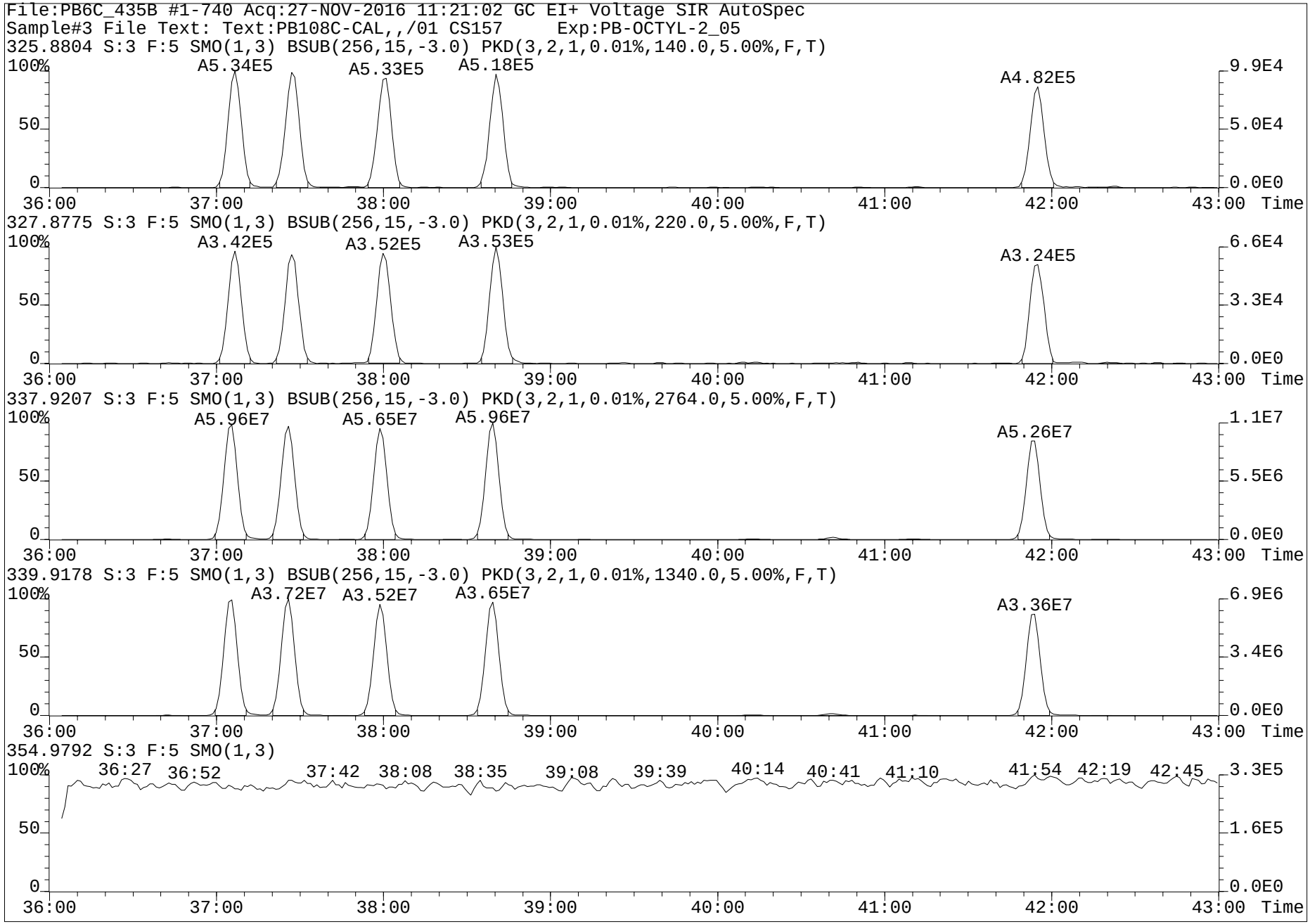

File:PB6C_435B #1-366 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
255.9613 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.27E5
9.8E4
4.9E4
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
257.9584 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.16E5
1.0E5
5.0E4
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
268.0016 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6748.0,5.00%,F,T)
100% A4.69E7
1.2E7
5.8E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
269.9986 S:3 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4352.0,5.00%,F,T)
100% A4.57E7
1.1E7
5.6E6
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
242.9856 S:3 F:2 SMO(1,3)
100% 17:02 17:21 17:35 18:03 18:24 18:43 18:54 19:08 19:21 19:36 19:50 20:02
8.1E5
4.0E5
0.0E0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

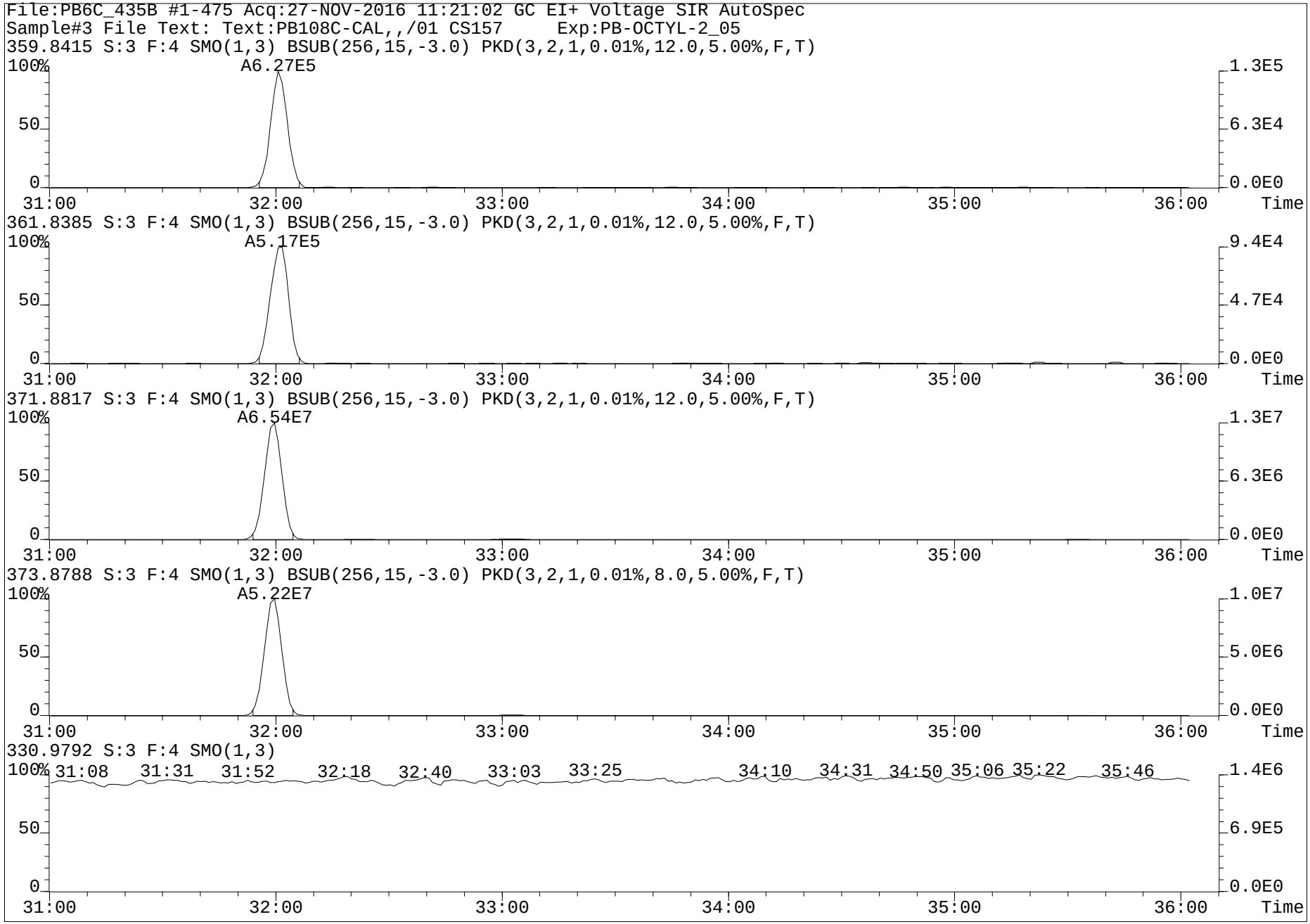

File:PB6C_435B #1-515 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
255.9613 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,260.0,5.00%,F,T)
A6.95E5
A7.01E5
257.9584 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,180.0,5.00%,F,T)
A6.53E5
A6.48E5
268.0016 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12600.0,5.00%,F,T)
A7.68E7
A7.23E7
269.9986 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6688.0,5.00%,F,T)
A7.32E7
A6.91E7
280.9825 S:3 F:3 SMO(1,3)
20:36 21:10 21:38 22:14 22:48 23:40 24:27 25:06 25:36 26:23 26:47 27:34
100%
50
0
1.5E5
7.7E4
0.0E0
1.4E5
7.1E4
1.6E7
8.2E6
7.9E6
2.4E6
1.2E6
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

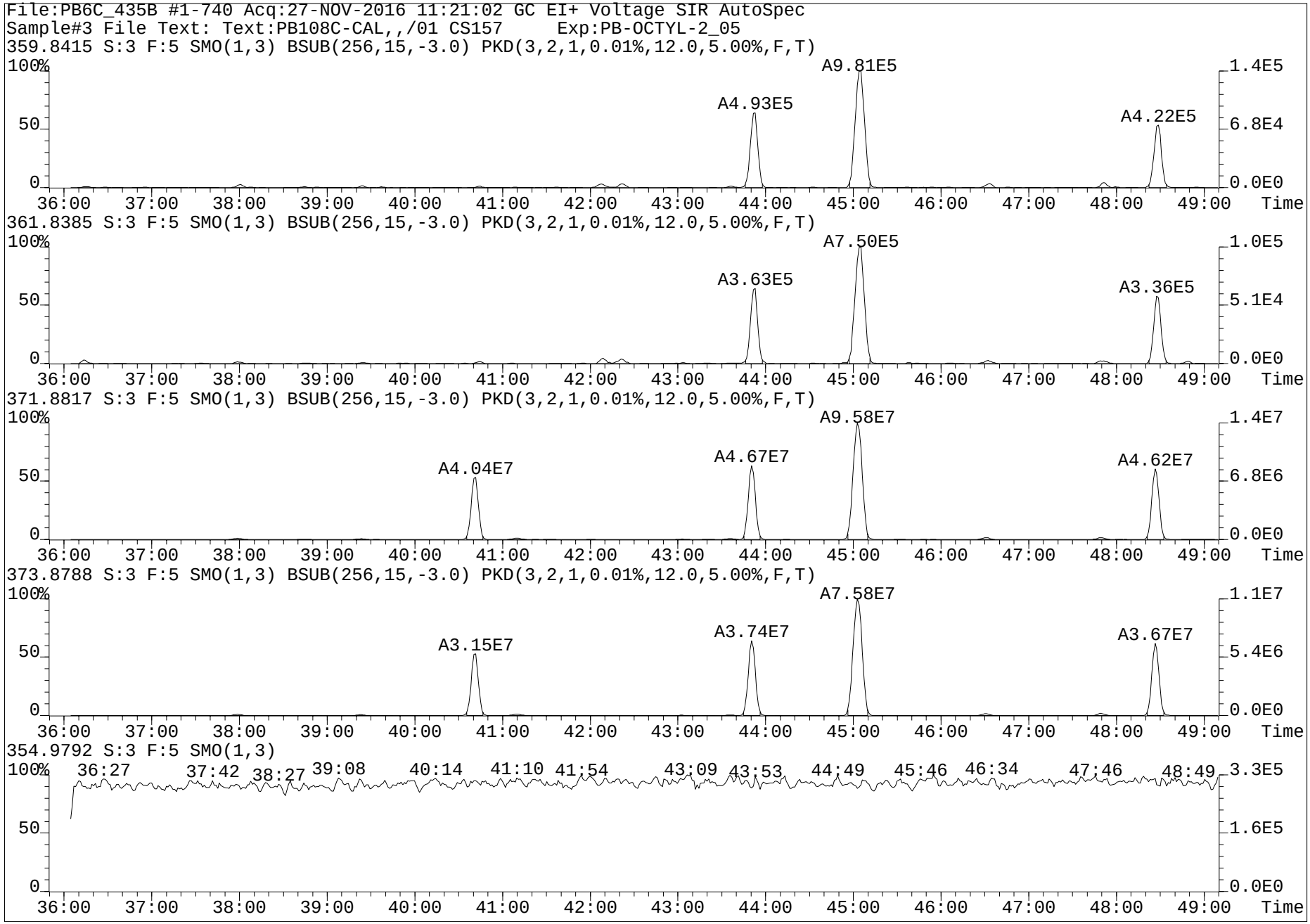

File:PB6C_435B #1-515 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
289.9224 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A5.34E5
1.2E5
6.1E4
0.0E0
291.9199 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
100% A6.79E5
1.5E5
7.7E4
0.0E0
301.9626 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1852.0,5.00%,F,T)
100% A5.43E7
A3.91E7
1.3E7
6.3E6
0.0E0
303.9597 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1192.0,5.00%,F,T)
100% A6.79E7
A5.02E7
1.6E7
7.9E6
0.0E0
280.9825 S:3 F:3 SMO(1,3)
100%
20:36 21:10 21:38 22:14 22:48 23:40 24:27 25:06 25:36 26:23 26:47 27:34
2.4E6
1.2E6
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

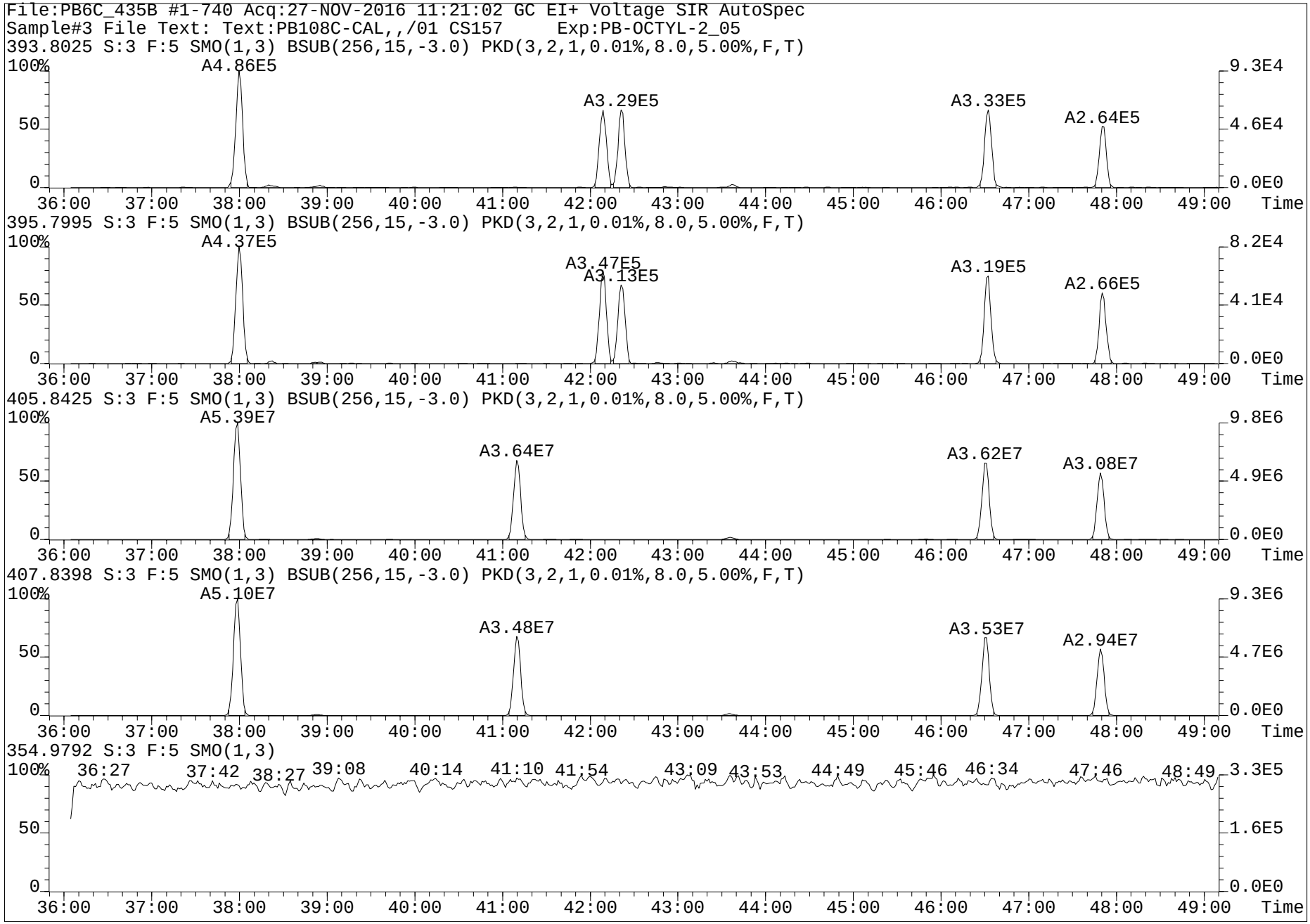

File:PB6C_435B #1-475 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
289.9224 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,156.0,5.00%,F,T)
A4.80E5 A5.01E5
291.9194 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A6.22E5 A6.00E5
301.9626 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2056.0,5.00%,F,T)
A4.93E7 A5.23E7
303.9597 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,936.0,5.00%,F,T)
A6.43E7 A6.72E7
330.9792 S:3 F:4 SMO(1,3)
28:25 29:18 29:57 30:23 31:02 31:31 32:18 32:47 33:25 33:57 34:31 35:22 35:52
100%
50
0
9.4E4
4.7E4
0.0E0
1.2E5
6.1E4
9.8E6
4.9E6
1.3E7
6.3E6
1.4E6
6.9E5
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time

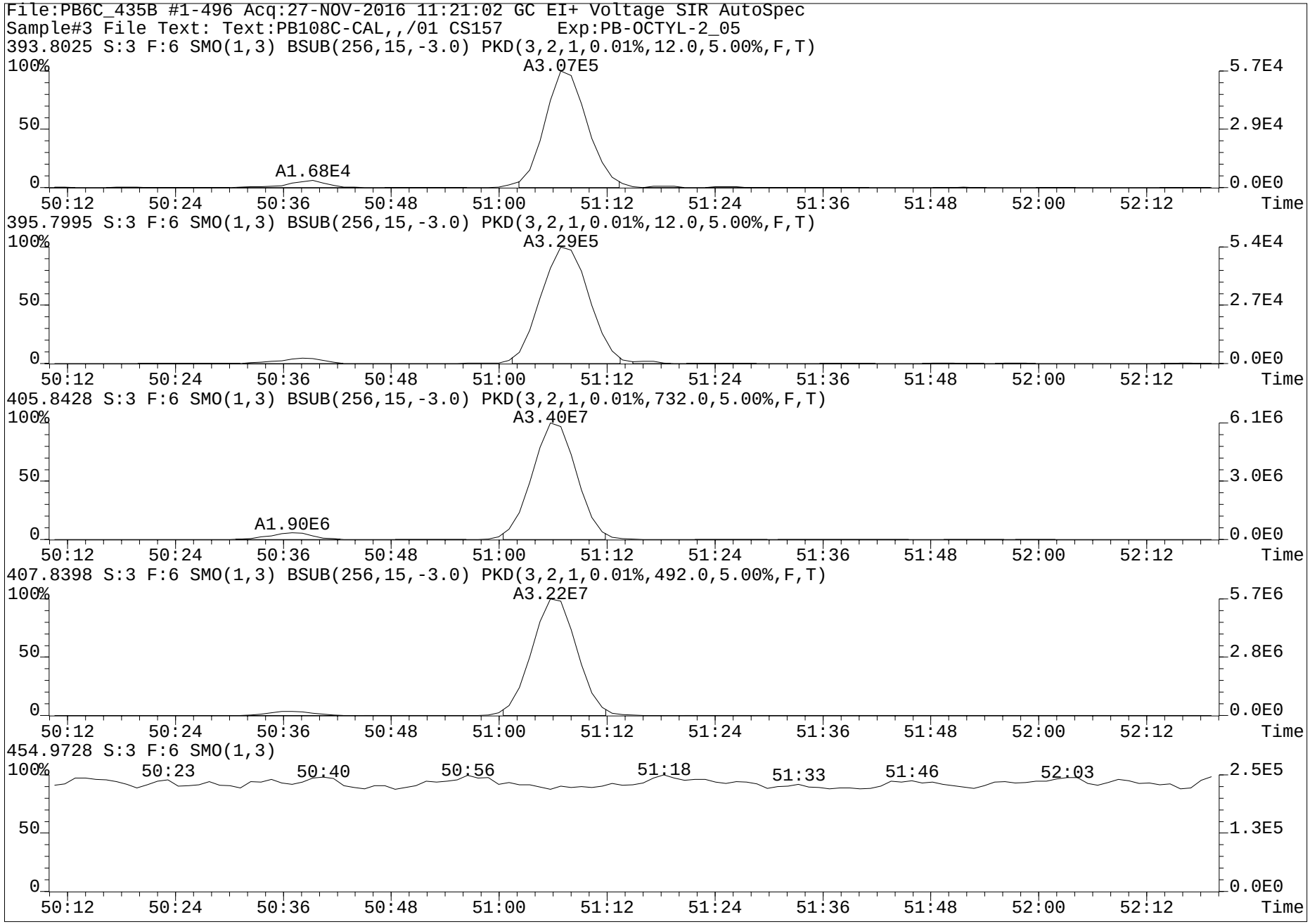

File:PB6C_435B #1-515 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
325.8804 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A6.79E5
1.4E5
7.0E4
0.0E0
327.8775 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.13E5
8.3E4
4.1E4
0.0E0
337.9207 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A6.80E7
1.4E7
7.1E6
0.0E0
339.9178 S:3 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.39E7
9.2E6
4.6E6
0.0E0
280.9825 S:3 F:3 SMO(1,3)
20:36 21:10 21:38 22:14 22:48 23:40 24:27 25:06 25:36 26:23 26:47 27:34
2.4E6
1.2E6
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

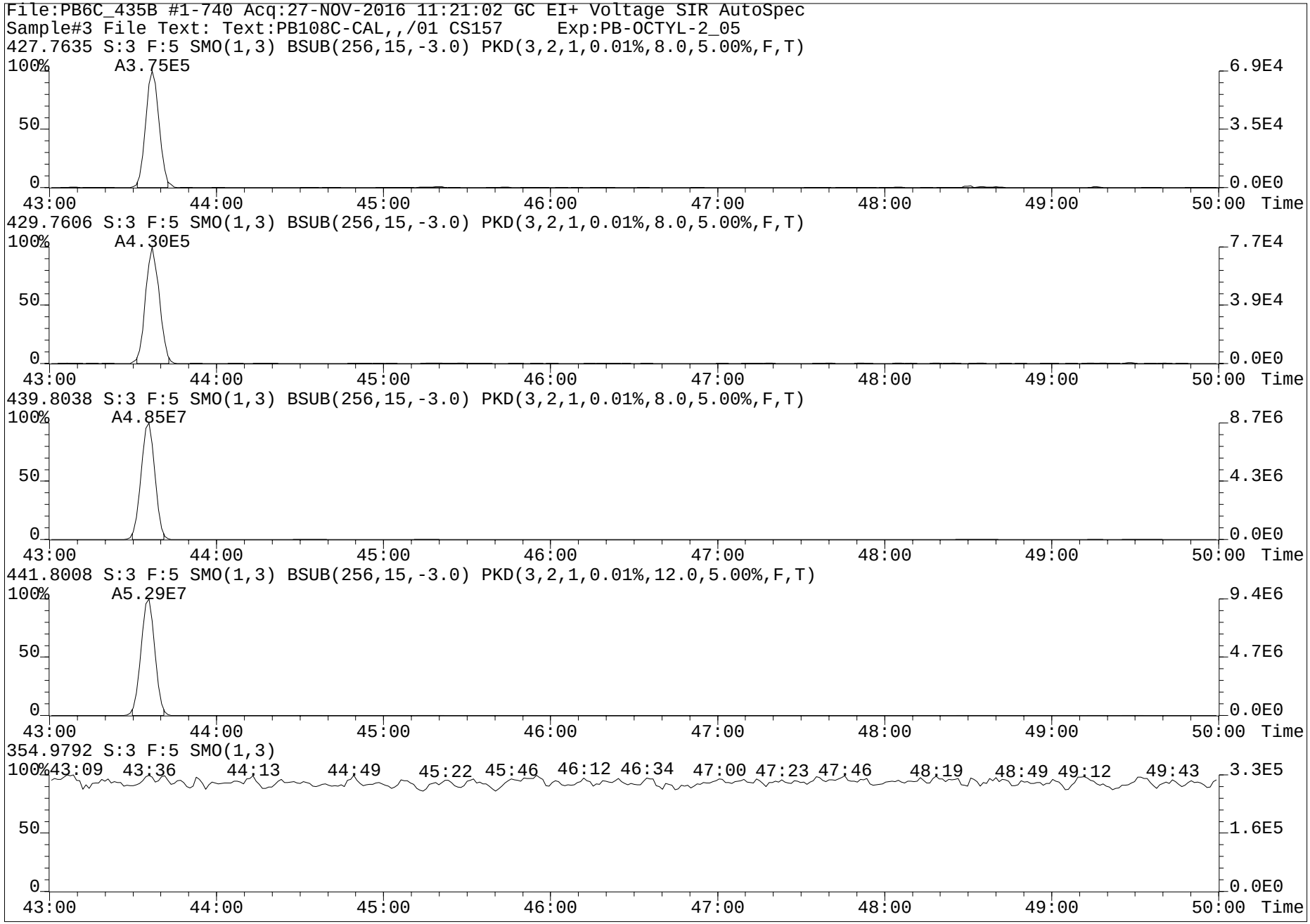

File:PB6C_435B #1-740 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
325.8804 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A5.34E5
A5.33E5
A5.18E5
A4.82E5
9.9E4
5.0E4
0.0E0
327.8775 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A3.42E5
A3.52E5
A3.53E5
A3.24E5
6.6E4
3.3E4
0.0E0
337.9207 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2764.0,5.00%,F,T)
A5.96E7
A5.65E7
A5.96E7
A5.26E7
1.1E7
5.5E6
0.0E0
339.9178 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1340.0,5.00%,F,T)
A3.72E7
A3.52E7
A3.65E7
A3.36E7
6.9E6
3.4E6
0.0E0
354.9792 S:3 F:5 SMO(1,3)
36:27
36:52
37:42
38:08
38:35
39:08
39:39
40:14
40:41
41:10
41:54
42:19
42:45
3.3E5
1.6E5
0.0E0
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

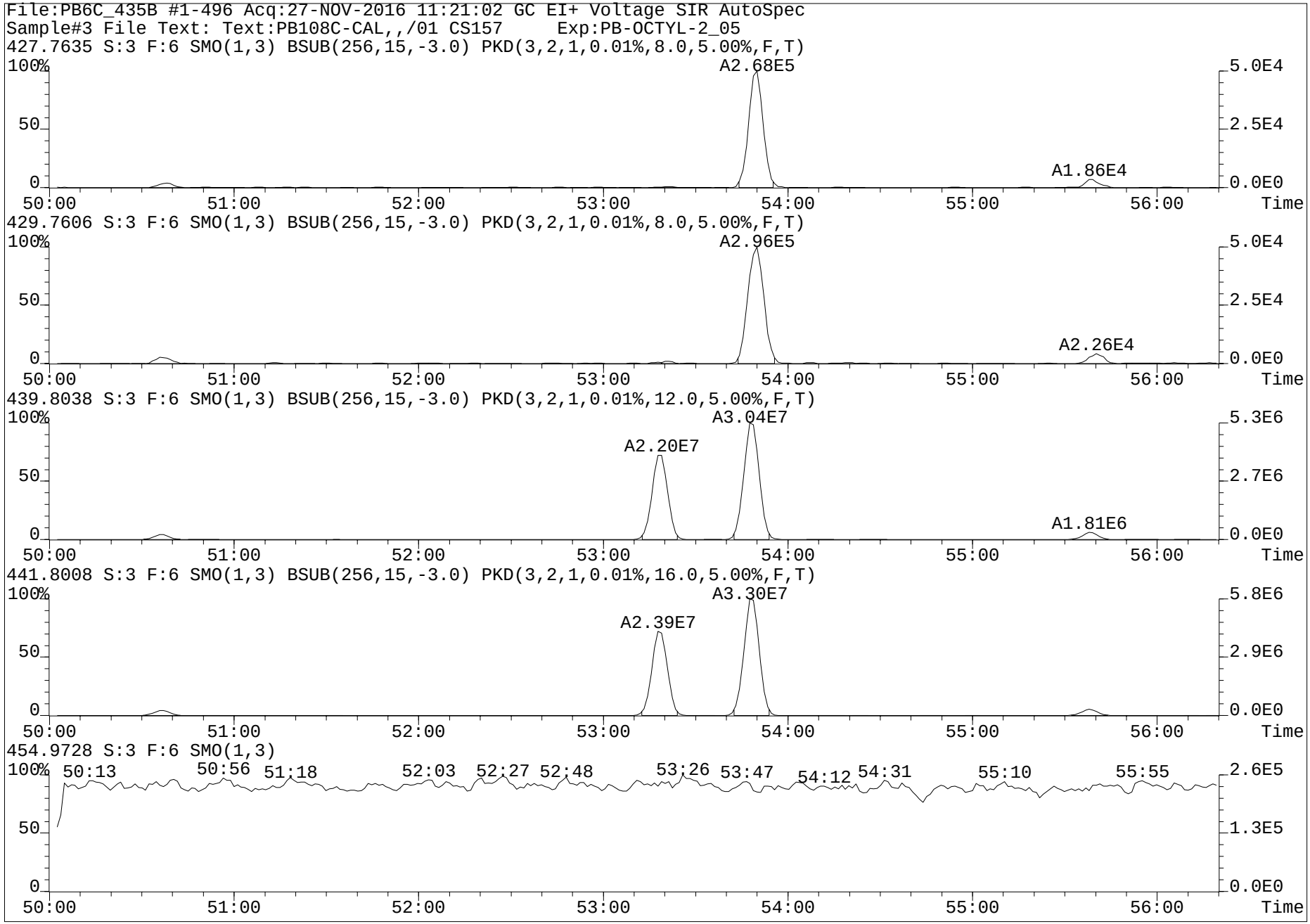

File:PB6C_435B #1-475 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
359.8415 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A6.27E5
1.3E5
6.3E4
0.0E0
361.8385 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.17E5
9.4E4
4.7E4
0.0E0
371.8817 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A6.54E7
1.3E7
6.3E6
0.0E0
373.8788 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.22E7
1.0E7
5.0E6
0.0E0
330.9792 S:3 F:4 SMO(1,3)
31:08 31:31 31:52 32:18 32:40 33:03 33:25 34:10 34:31 34:50 35:06 35:22 35:46
1.4E6
6.9E5
0.0E0
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time

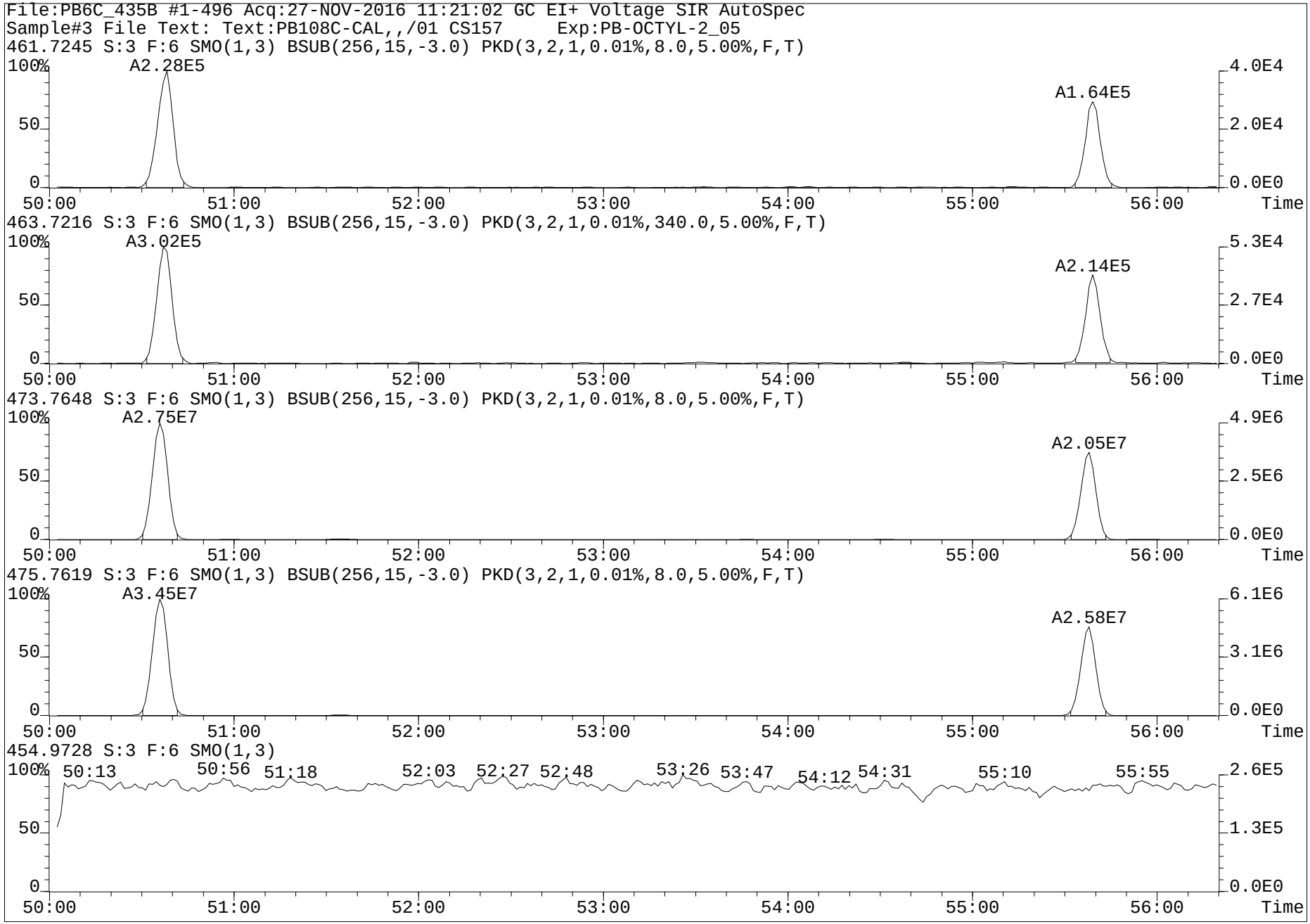

File:PB6C_435B #1-740 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
359.8415 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.93E5
A9.81E5
A4.22E5
361.8385 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.63E5
A7.50E5
A3.36E5
371.8817 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.04E7
A4.67E7
A9.58E7
A4.62E7
373.8788 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.15E7
A3.74E7
A7.58E7
A3.67E7
354.9792 S:3 F:5 SMO(1,3)
36:27 37:42 38:27 39:08 40:14 41:10 41:54 43:09 43:53 44:49 45:46 46:34 47:46 48:49
100%
50
0
1.4E5
6.8E4
0.0E0
1.0E5
5.1E4
1.4E7
6.8E6
1.1E7
5.4E6
3.3E5
1.6E5
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

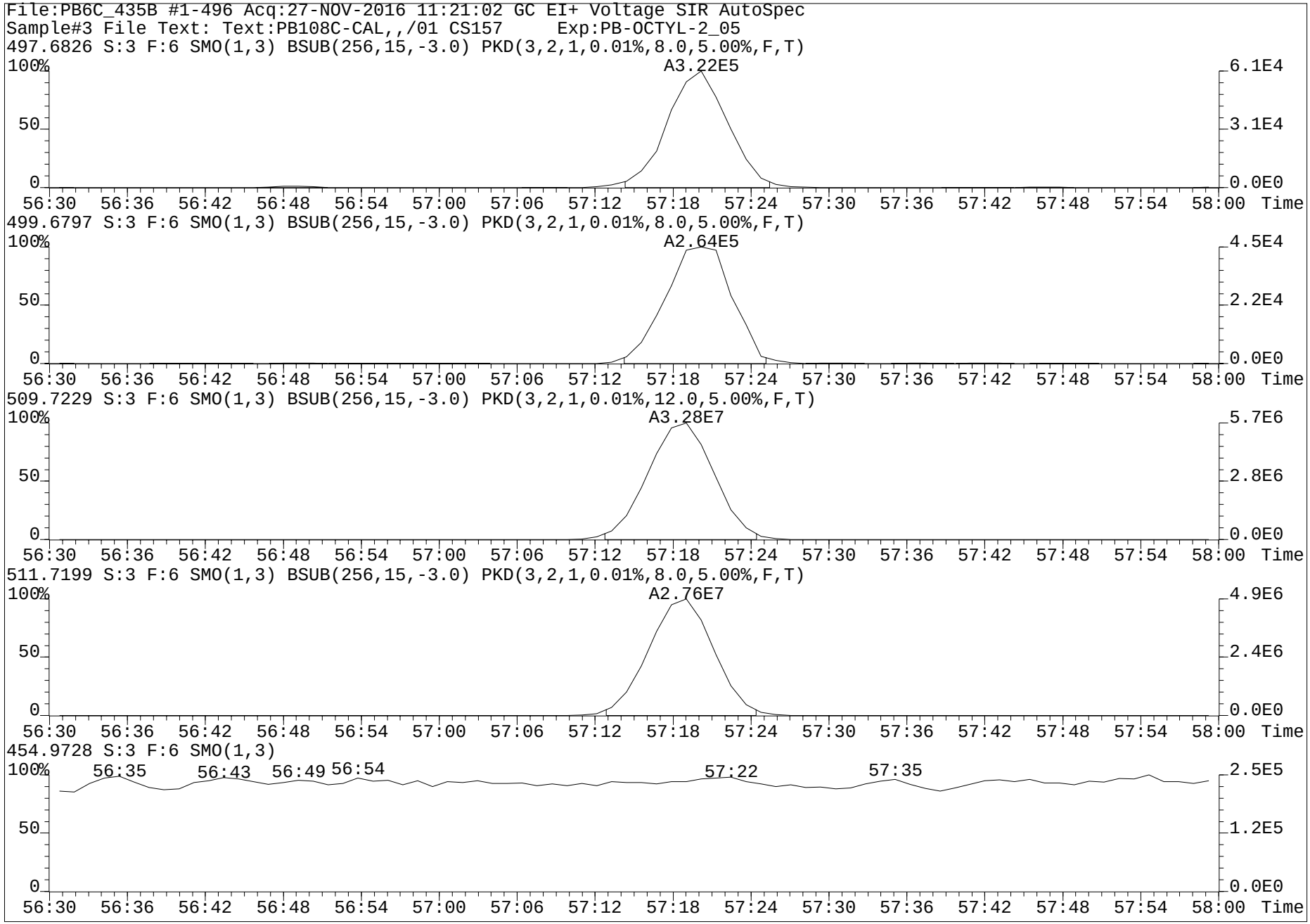

File:PB6C_435B #1-740 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
393.8025 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.86E5
A3.29E5
A3.33E5
A2.64E5
9.3E4
4.6E4
0.0E0
395.7995 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.37E5
A3.47E5
A3.13E5
A3.19E5
A2.66E5
8.2E4
4.1E4
0.0E0
405.8425 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.39E7
A3.64E7
A3.62E7
A3.08E7
9.8E6
4.9E6
0.0E0
407.8398 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.10E7
A3.48E7
A3.53E7
A2.94E7
9.3E6
4.7E6
0.0E0
354.9792 S:3 F:5 SMO(1,3)
36:27 37:42 38:27 39:08 40:14 41:10 41:54 43:09 43:53 44:49 45:46 46:34 47:46 48:49
3.3E5
1.6E5
0.0E0
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

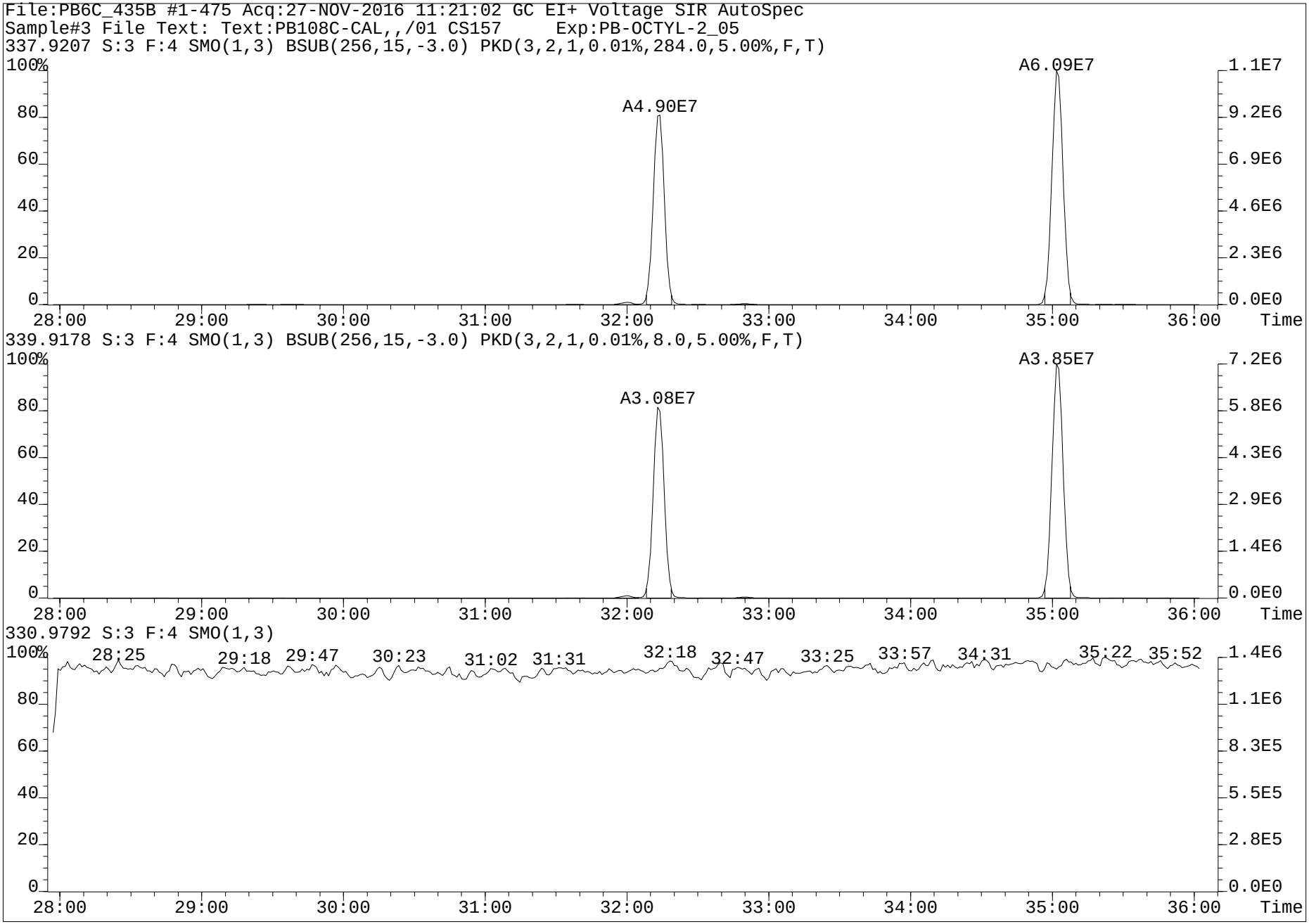

File:PB6C_435B #1-496 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
393.8025 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.07E5
A1.68E4
395.7995 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.29E5
405.8428 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,732.0,5.00%,F,T)
A3.40E7
A1.90E6
407.8398 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,492.0,5.00%,F,T)
A3.22E7
454.9728 S:3 F:6 SMO(1,3)
50:23
50:40
50:56
51:18
51:33
51:46
52:03
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
5.7E4
2.9E4
0.0E0
5.4E4
2.7E4
6.1E6
3.0E6
5.7E6
2.8E6
2.5E5
1.3E5


File:PB6C_435B #1-740 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
427.7635 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A3.75E5
6.9E4
3.5E4
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
429.7606 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.30E5
7.7E4
3.9E4
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
439.8038 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.85E7
8.7E6
4.3E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
441.8008 S:3 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A5.29E7
9.4E6
4.7E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
354.9792 S:3 F:5 SMO(1,3)
100% 43:09 43:36 44:13 44:49 45:22 45:46 46:12 46:34 47:00 47:23 47:46 48:19 48:49 49:12 49:43
3.3E5
1.6E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-496 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
427.7635 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.68E5
A1.86E4
429.7606 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.96E5
A2.26E4
439.8038 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.04E7
A2.20E7
A1.81E6
441.8008 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A3.30E7
A2.39E7
454.9728 S:3 F:6 SMO(1,3)
50:13 50:56 51:18 52:03 52:27 52:48 53:26 53:47 54:12 54:31 55:10 55:55
100%
50
0
5.0E4
2.5E4
0.0E0
5.3E6
2.7E6
5.8E6
2.9E6
2.6E5
1.3E5
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time


File:PB6C_435B #1-496 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
461.7245 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.28E5
A1.64E5
463.7216 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,340.0,5.00%,F,T)
A3.02E5
A2.14E5
473.7648 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.75E7
A2.05E7
475.7619 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.45E7
A2.58E7
454.9728 S:3 F:6 SMO(1,3)
50:13 50:56 51:18 52:03 52:27 52:48 53:26 53:47 54:12 54:31 55:10 55:55
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
4.0E4 2.0E4 0.0E0
5.3E4 2.7E4 0.0E0
4.9E6 2.5E6 0.0E0
6.1E6 3.1E6 0.0E0
2.6E5 1.3E5 0.0E0


File:PB6C_435B #1-496 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
497.6826 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.22E5
499.6797 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.64E5
509.7229 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.28E7
511.7199 S:3 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.76E7
454.9728 S:3 F:6 SMO(1,3)
56:35
56:43
56:49
56:54
57:22
57:35
100%
50
0
6.1E4
3.1E4
0.0E0
4.5E4
2.2E4
5.7E6
2.8E6
4.9E6
2.4E6
2.5E5
1.2E5
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time


File:PB6C_435B #1-475 Acq:27-NOV-2016 11:21:02 GC EI+ Voltage SIR AutoSpec
Sample#3 File Text: Text:PB108C-CAL,,/01 CS157 Exp:PB-OCTYL-2_05
337.9207 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,284.0,5.00%,F,T)
A4.90E7
A6.09E7
339.9178 S:3 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.08E7
A3.85E7
330.9792 S:3 F:4 SMO(1,3)
28:25
29:18
29:47
30:23
31:02
31:31
32:18
32:47
33:25
33:57
34:31
35:22
35:52
Time

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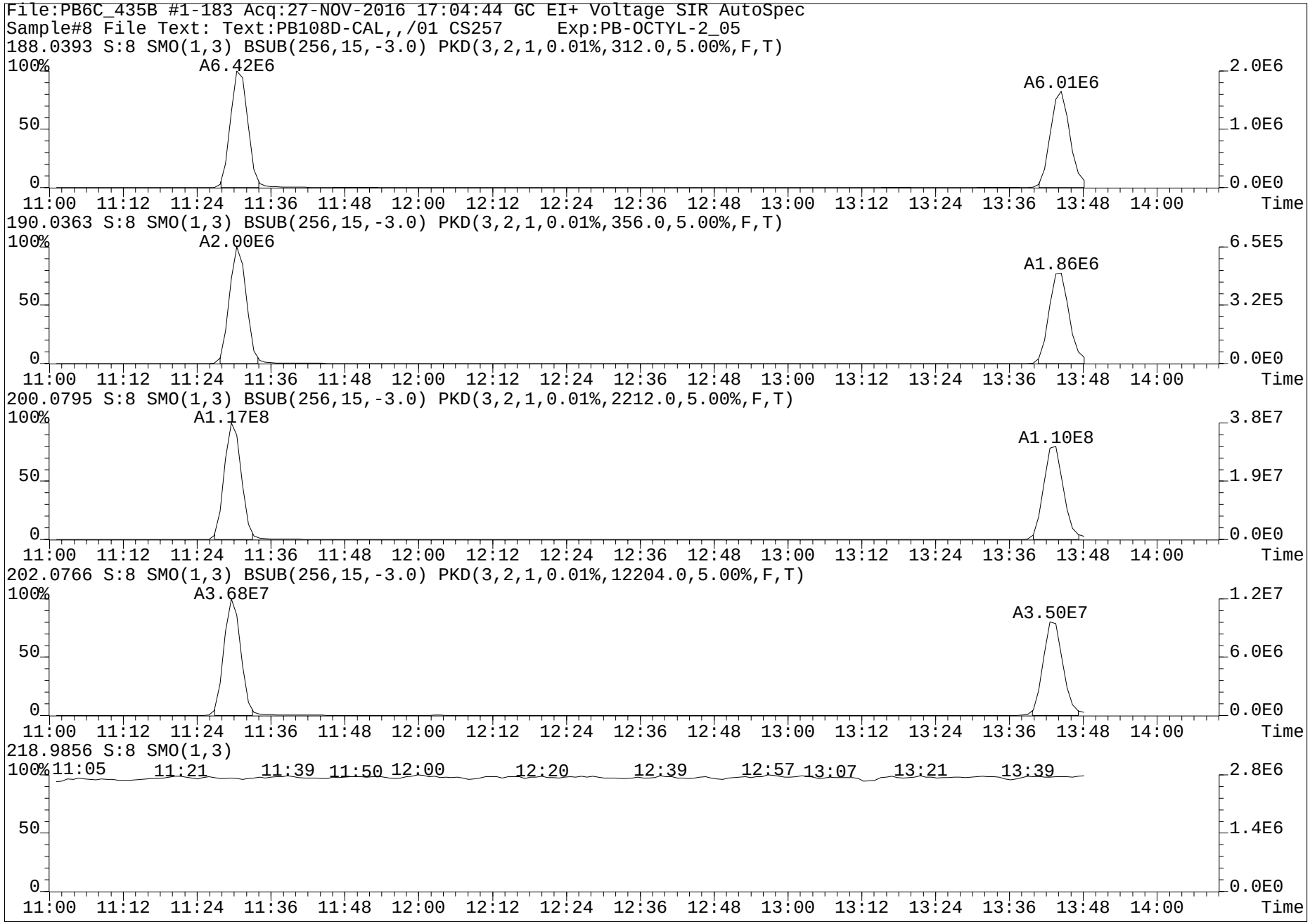


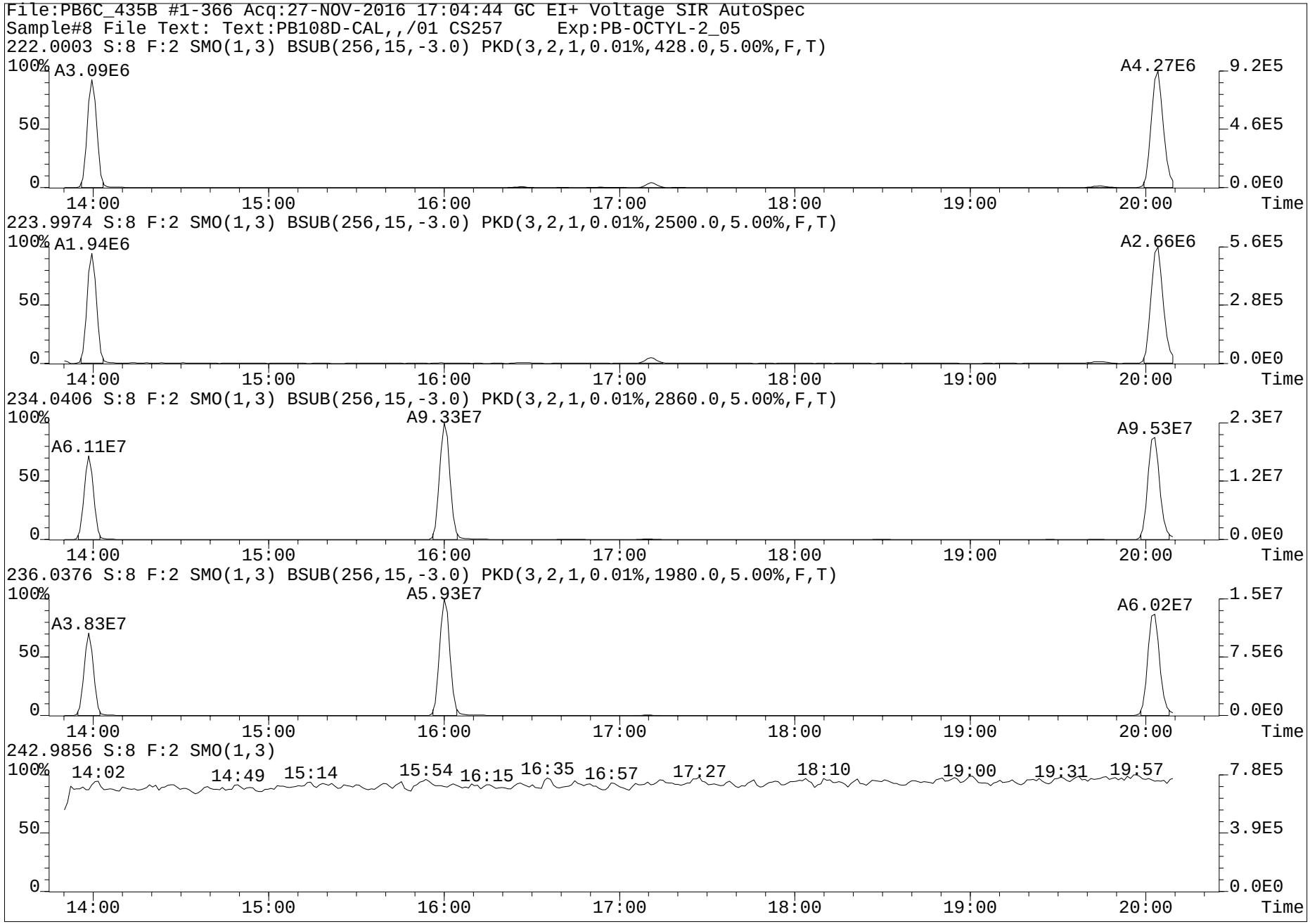
Run #3 Filename PB6C_435B S: 8 I: 1 Acquired: 27-NOV-16 17:04:44 Processed: 28-NOV-16 14:50:12
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: PB9C_274A-CAL Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108D-CAL,,/01 CS257 Comments: 1,,1.0uL CS-2 F1: 5.00 F2: 1.00

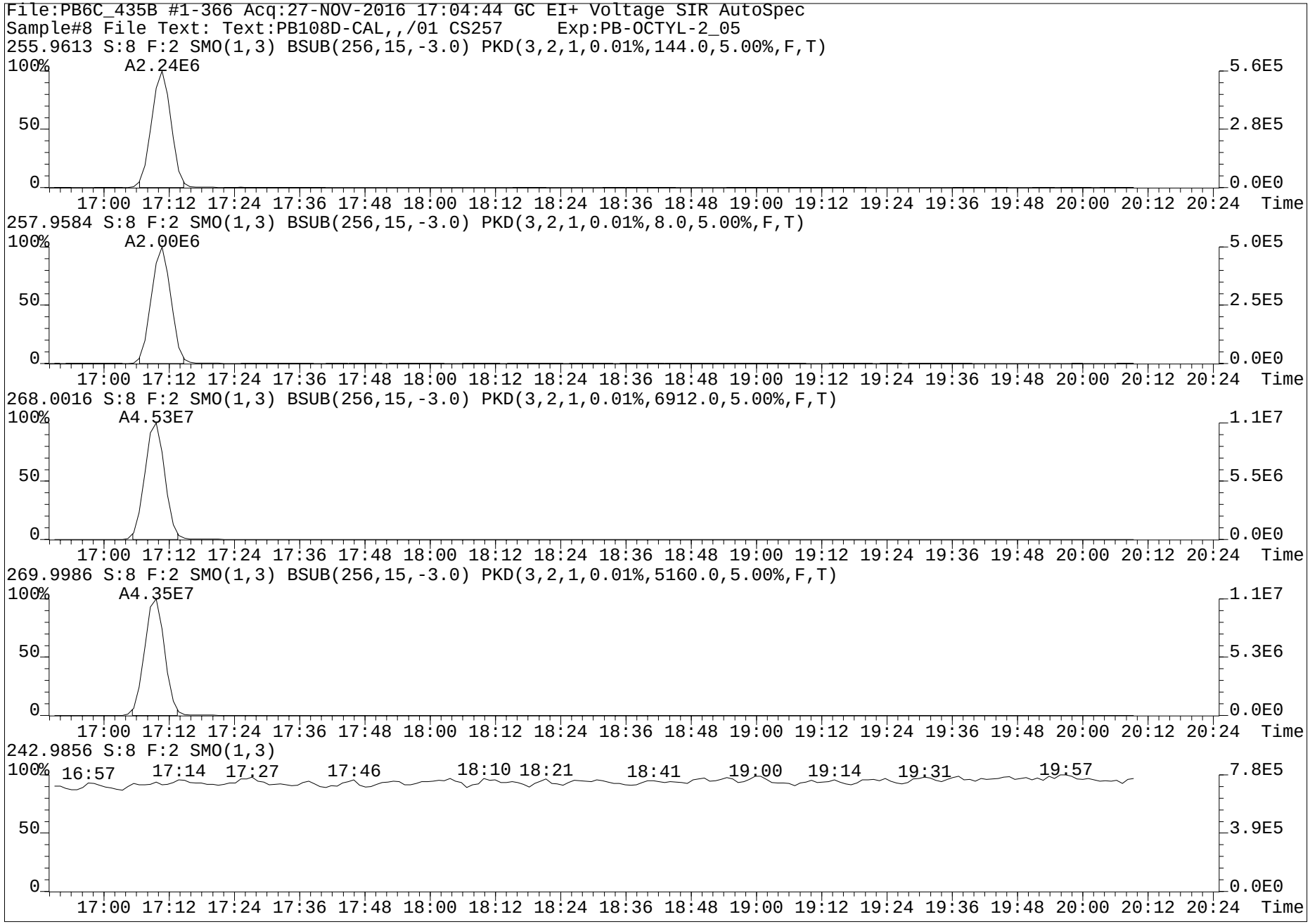
| | Typ | Name | Amount | Resp | RA | RT | s/n | RF | RRF | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 5.00 | 8.42e+06 | 3.21 y | 11:30 | 6.5e+03 | - | 1.0921 | y n |
| 2 | Unk | CL1-PCB-3 | 5.00 | 7.87e+06 | 3.22 y | 13:44 | 5.4e+03 | - | 1.0832 | y n |
| 3 | Unk | CL2-PCB-4 | 5.00 | 5.03e+06 | 1.60 y | 13:59 | 2.0e+03 | - | 1.0112 | y n |
| 4 | Unk | CL2-PCB-15 | 5.00 | 6.93e+06 | 1.60 y | 20:04 | 2.1e+03 | - | 0.8913 | y n |
| 5 | Unk | CL3-PCB-19 | 5.00 | 4.24e+06 | 1.12 y | 17:11 | 3.9e+03 | - | 0.9543 | y n |
| 6 | Unk | CL3-PCB-37 | 5.00 | 6.47e+06 | 1.03 y | 27:22 | 1.2e+03 | - | 0.9847 | y n |
| 7 | Unk | CL4-PCB-54 | 5.00 | 5.85e+06 | 0.81 y | 20:21 | 3.8e+04 | - | 1.0185 | y n |
| 8 | Unk | CL4-PCB-81 | 5.00 | 5.27e+06 | 0.78 y | 34:25 | 1.5e+03 | - | 0.9790 | y n |
| 9 | Unk | CL4-PCB-77 | 5.00 | 5.37e+06 | 0.78 y | 35:01 | 1.5e+03 | - | 0.9618 | y n |
| 10 | Unk | CL5-PCB-104 | 5.00 | 5.38e+06 | 1.56 y | 26:04 | 8.4e+04 | - | 1.0216 | y n |
| 11 | Unk | CL5-PCB-123 | 5.00 | 4.19e+06 | 1.59 y | 37:07 | 1.3e+03 | - | 0.9273 | y n |
| 12 | Unk | CL5-PCB-118 | 5.00 | 4.37e+06 | 1.56 y | 37:27 | 1.3e+03 | - | 0.9793 | y n |
| 13 | Unk | CL5-PCB-114 | 5.00 | 4.31e+06 | 1.66 y | 38:00 | 1.3e+03 | - | 1.0154 | y n |
| 14 | Unk | CL5-PCB-105 | 5.00 | 4.39e+06 | 1.54 y | 38:41 | 1.3e+03 | - | 0.9895 | y n |
| 15 | Unk | CL5-PCB-126 | 5.00 | 3.90e+06 | 1.58 y | 41:55 | 1.2e+03 | - | 0.9818 | y n |
| 16 | Unk | CL6-PCB-155 | 5.00 | 5.18e+06 | 1.23 y | 32:01 | 4.5e+04 | - | 0.9583 | y n |
| 17 | Unk | CL6-PCB-167 | 5.00 | 4.08e+06 | 1.31 y | 43:52 | 3.6e+03 | - | 1.0650 | y n |
| 18 | Unk | CL6-PCB-156/157 | 10.00 | 8.03e+06 | 1.26 y | 45:04 | 5.4e+03 | - | 1.0398 | y n |
| 19 | Unk | CL6-PCB-169 | 5.00 | 3.66e+06 | 1.27 y | 48:28 | 3.0e+03 | - | 0.9916 | y n |
| 20 | Unk | CL7-PCB-188 | 5.00 | 4.43e+06 | 1.02 y | 38:00 | 3.4e+03 | - | 0.9150 | y n |
| 21 | Unk | CL7-PCB-189 | 5.00 | 2.85e+06 | 0.99 y | 51:08 | 1.6e+04 | - | 0.9560 | y n |
| 22 | Unk | CL8-PCB-202 | 5.00 | 3.73e+06 | 0.89 y | 43:37 | 3.9e+04 | - | 0.8177 | y n |
| 23 | Unk | CL8-PCB-205 | 5.00 | 2.59e+06 | 0.89 y | 53:50 | 2.8e+04 | - | 0.9348 | y n |
| 24 | Unk | CL9-PCB-208 | 5.00 | 2.38e+06 | 0.79 y | 50:38 | 4.5e+04 | - | 0.8732 | y n |
| 25 | Unk | CL9-PCB-206 | 5.00 | 1.83e+06 | 0.80 y | 55:39 | 3.6e+04 | - | 0.9075 | y n |
| 26 | Unk | CL10-PCB-209 | 5.00 | 2.44e+06 | 1.19 y | 57:20 | 2.9e+04 | - | 0.9625 | y n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.54e+08 | 3.19 y | 11:30 | 1.7e+04 | - | 1.0098 | y n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.45e+08 | 3.15 y | 13:43 | 1.4e+04 | - | 0.9519 | y n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 9.94e+07 | 1.59 y | 13:58 | 5.9e+03 | - | 0.6511 | y n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.55e+08 | 1.58 y | 20:03 | 7.2e+03 | - | 1.0184 | y n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 8.88e+07 | 1.04 y | 17:09 | 1.6e+03 | - | 0.5817 | y n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.31e+08 | 1.04 y | 27:21 | 1.1e+03 | - | 1.5964 | y n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.15e+08 | 0.79 y | 20:20 | 6.5e+03 | - | 1.3958 | y n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.08e+08 | 0.78 y | 34:24 | 3.6e+03 | - | 1.3073 | y n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.12e+08 | 0.79 y | 34:59 | 3.7e+03 | - | 1.3559 | y n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.05e+08 | 1.57 y | 26:03 | 1.7e+06 | - | 1.4351 | y n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 9.04e+07 | 1.57 y | 37:05 | 7.6e+03 | - | 1.2305 | y n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 8.93e+07 | 1.58 y | 37:26 | 7.6e+03 | - | 1.2156 | y n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 8.49e+07 | 1.58 y | 37:59 | 7.2e+03 | - | 1.1554 | y n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 8.88e+07 | 1.57 y | 38:39 | 7.5e+03 | - | 1.2088 | y n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 7.95e+07 | 1.58 y | 41:54 | 6.5e+03 | - | 1.0817 | y n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.08e+08 | 1.24 y | 31:59 | 1.4e+06 | - | 1.6530 | y n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 7.66e+07 | 1.29 y | 43:51 | 6.5e+05 | - | 1.1718 | y n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.54e+08 | 1.28 y | 45:03 | 1.0e+06 | - | 1.1808 | y n |

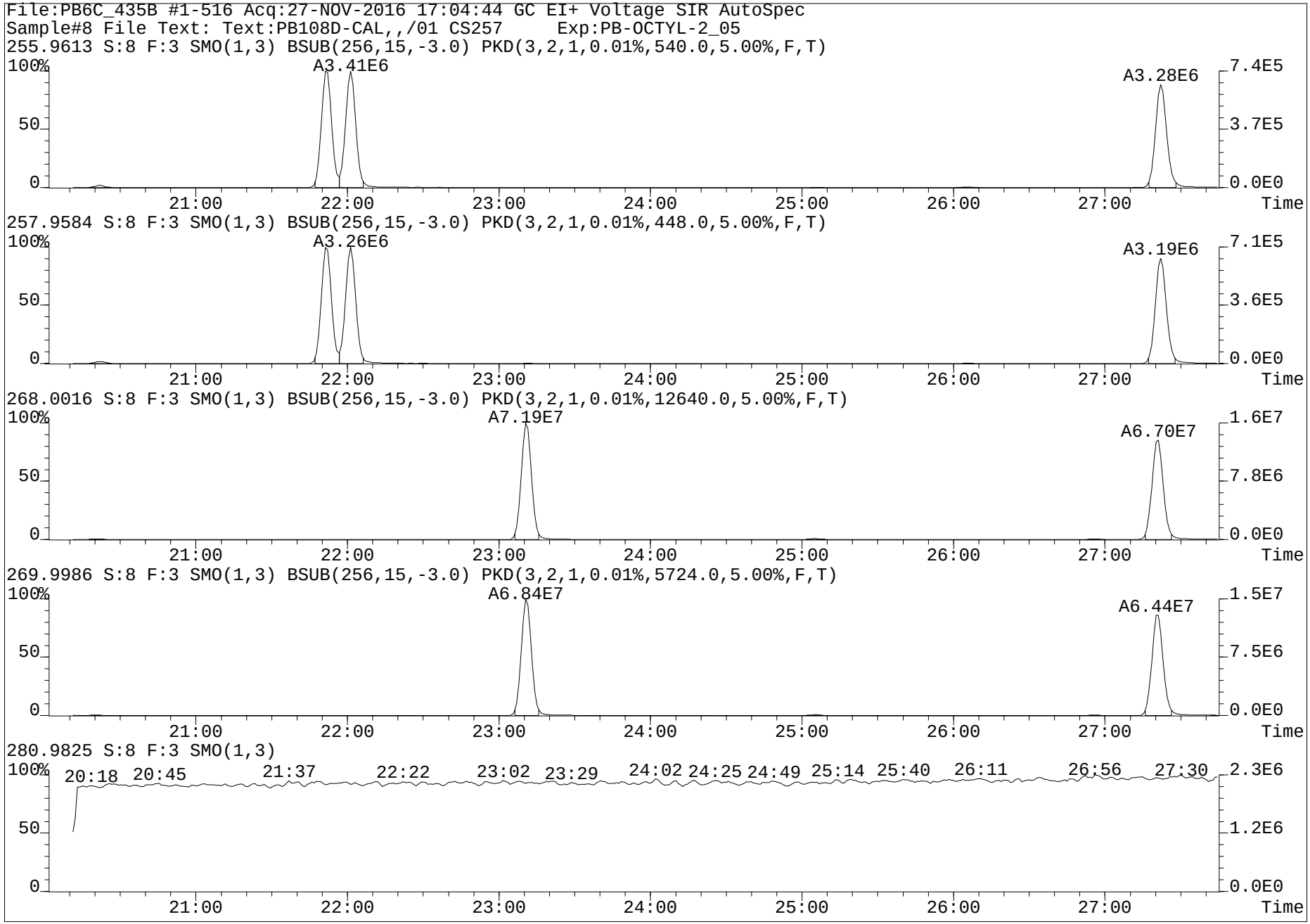
sv:jp 29-Nov-16
PV'd by PL 29 Nov 16

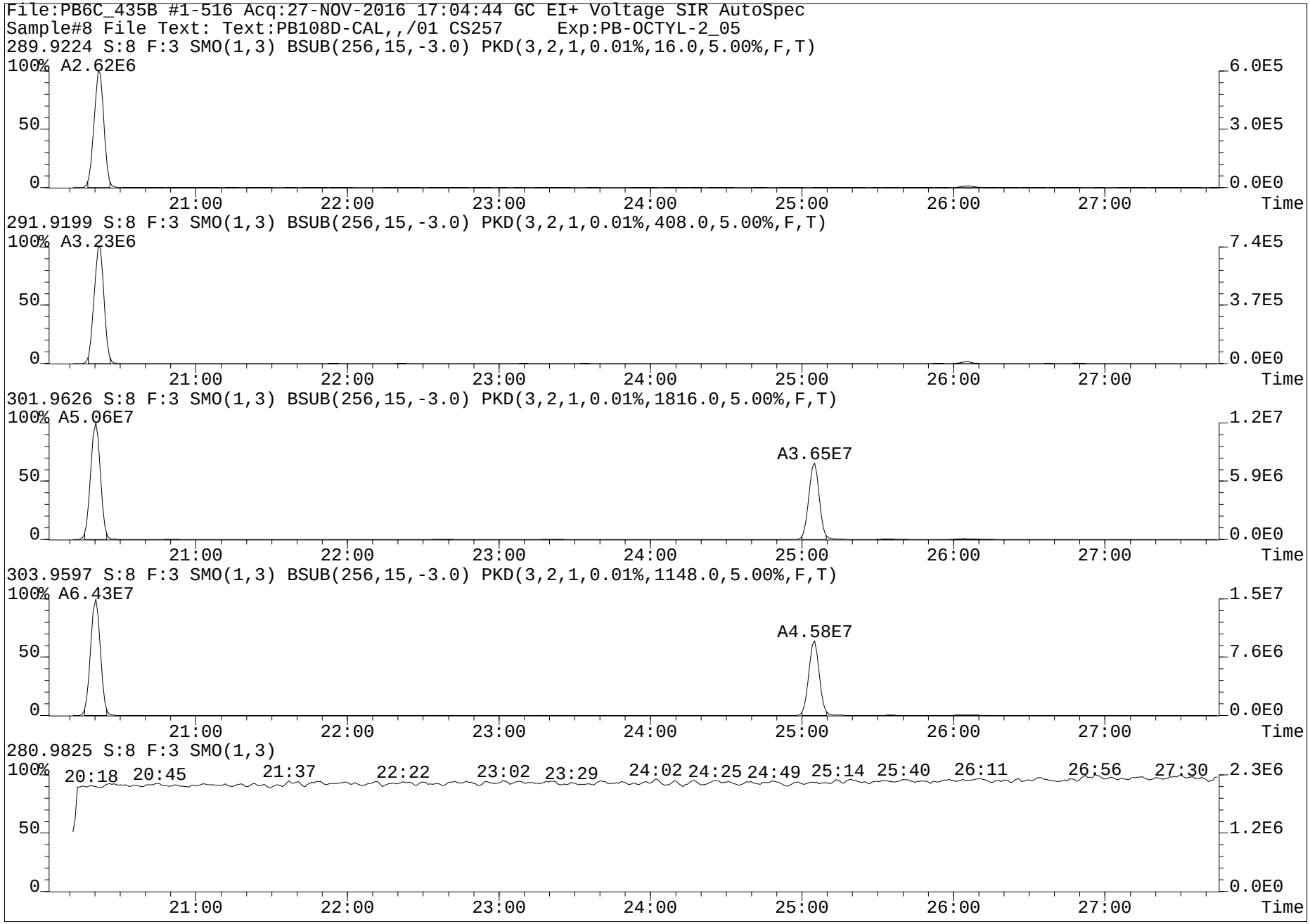
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 7.38e+07 | 1.27 y | 48:27 | 6.1e+05 | - | 1.1281 | y n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 9.69e+07 | 1.06 y | 37:58 | 7.6e+05 | - | 2.4243 | y n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 5.97e+07 | 1.05 y | 51:06 | 4.8e+03 | - | 1.4931 | y n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 9.12e+07 | 0.90 y | 43:36 | 9.6e+05 | - | 2.2821 | y n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 5.53e+07 | 0.93 y | 53:49 | 5.9e+05 | - | 1.3842 | y n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 5.46e+07 | 0.80 y | 50:36 | 5.4e+05 | - | 1.3666 | y n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 4.02e+07 | 0.81 y | 55:38 | 4.0e+05 | - | 1.0065 | y n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 5.08e+07 | 1.18 y | 57:19 | 1.2e+06 | - | 1.2701 | y n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.53e+08 | 1.57 y | 16:00 | 8.2e+03 | 1.53e+06 | - | n n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 8.23e+07 | 0.80 y | 25:05 | 4.3e+03 | 8.23e+05 | - | n n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 7.35e+07 | 1.61 y | 32:13 | 2.5e+04 | 7.35e+05 | - | n n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 6.54e+07 | 1.28 y | 40:41 | 5.5e+05 | 6.54e+05 | - | n n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 4.00e+07 | 0.90 y | 53:19 | 4.2e+05 | 4.00e+05 | - | n n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.40e+08 | 1.05 y | 23:11 | 1.2e+03 | - | 1.7051 | y n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 9.19e+07 | 1.61 y | 35:02 | 3.1e+04 | - | 1.2511 | y n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 6.48e+07 | 1.05 y | 41:10 | 5.0e+05 | - | 0.9907 | y n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.15e+08 | 0.79 y | 20:20 | 6.5e+03 | - | 1.3958 | y n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 9.69e+07 | 1.06 y | 37:58 | 7.6e+05 | - | 2.4243 | y n |
| 63 | LM | CL1-LOCK | 0.00 | - | | - | - | - | - | n n |
| 64 | LM | CL2-LOCK | 0.00 | - | | - | - | - | - | n n |
| 65 | LM | CL3-LOCK | 0.00 | - | | - | - | - | - | n n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 68 | LM | CL5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 69 | LM | CL6-LOCK | 0.00 | - | | - | - | - | - | n n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | - | - | - | - | n n |
| 71 | LM | CL7-LOCK | 0.00 | - | | - | - | - | - | n n |
| 72 | LM | CL8-LOCK | 0.00 | - | | - | - | - | - | n n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | - | - | - | - | n n |
| 74 | LM | CL10-LOCK | 0.00 | - | | - | - | - | - | n n |

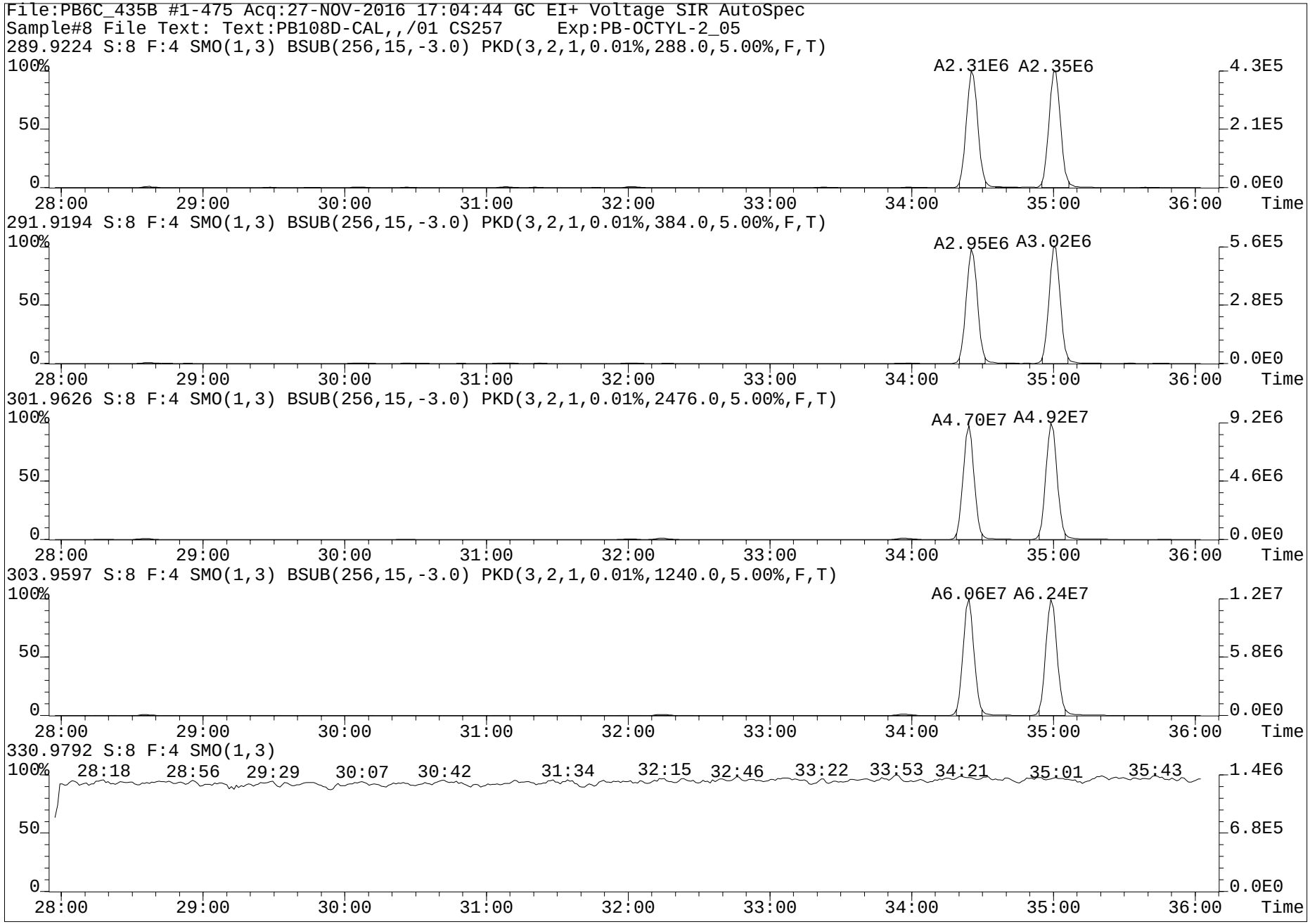

File:PB6C_435B #1-183 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
188.0393 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,312.0,5.00%,F,T)
A6.42E6
A6.01E6
190.0363 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,356.0,5.00%,F,T)
A2.00E6
A1.86E6
200.0795 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2212.0,5.00%,F,T)
A1.17E8
A1.10E8
202.0766 S:8 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12204.0,5.00%,F,T)
A3.68E7
A3.50E7
218.9856 S:8 SMO(1,3)
11:05 11:21 11:39 11:50 12:00 12:20 12:39 12:57 13:07 13:21 13:39
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
2.0E6
1.0E6
0.0E0
6.5E5
3.2E5
3.8E7
1.9E7
1.2E7
6.0E6
2.8E6
1.4E6

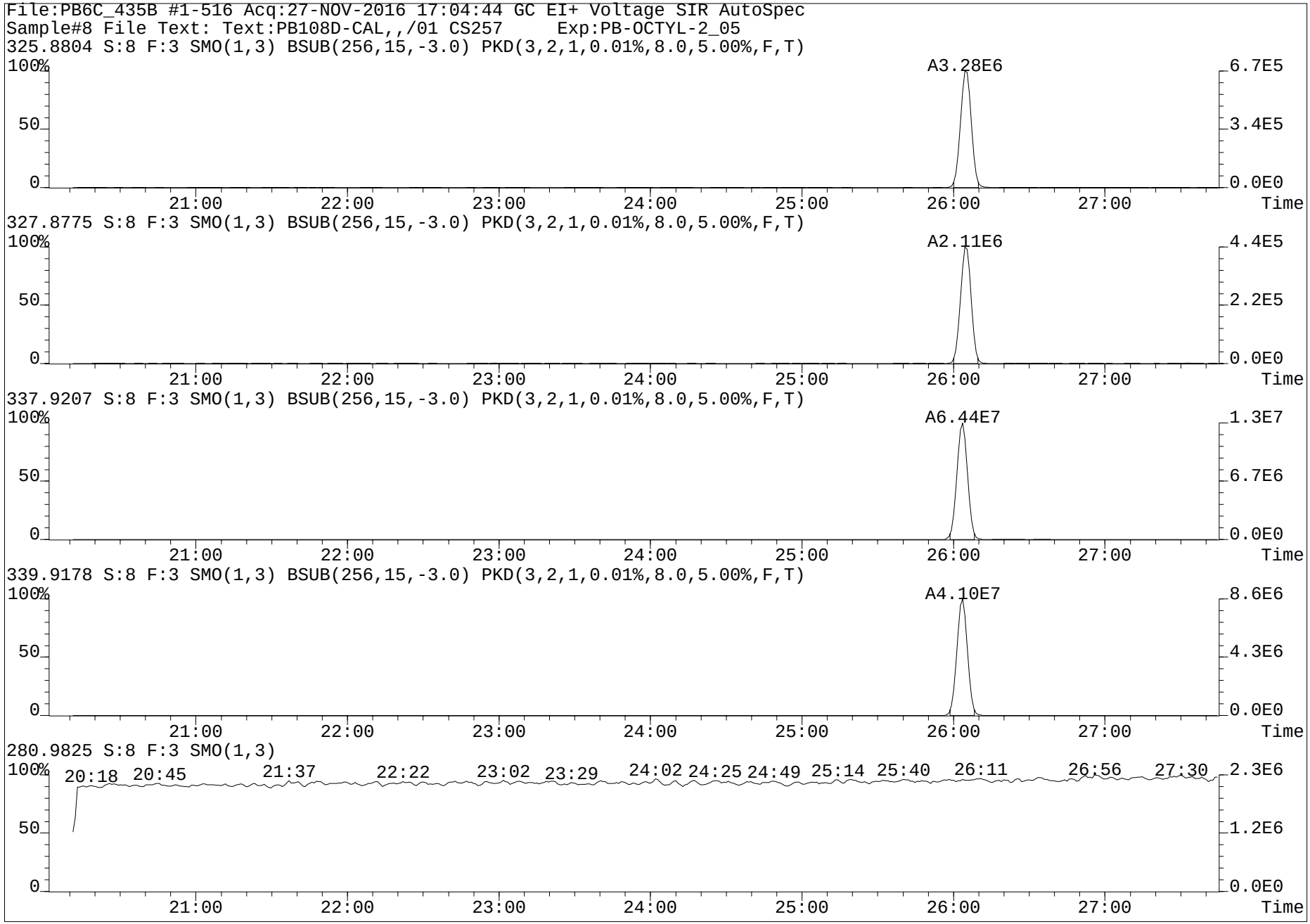

File:PB6C_435B #1-366 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
222.0003 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,428.0,5.00%,F,T)
A3.09E6
A4.27E6
223.9974 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2500.0,5.00%,F,T)
A1.94E6
A2.66E6
234.0406 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2860.0,5.00%,F,T)
A6.11E7
A9.33E7
A9.53E7
236.0376 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1980.0,5.00%,F,T)
A3.83E7
A5.93E7
A6.02E7
242.9856 S:8 F:2 SMO(1,3)
14:02
14:49
15:14
15:54
16:15
16:35
16:57
17:27
18:10
19:00
19:31
19:57
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
9.2E5
4.6E5
0.0E0
5.6E5
2.8E5
2.3E7
1.2E7
1.5E7
7.5E6
7.8E5
3.9E5

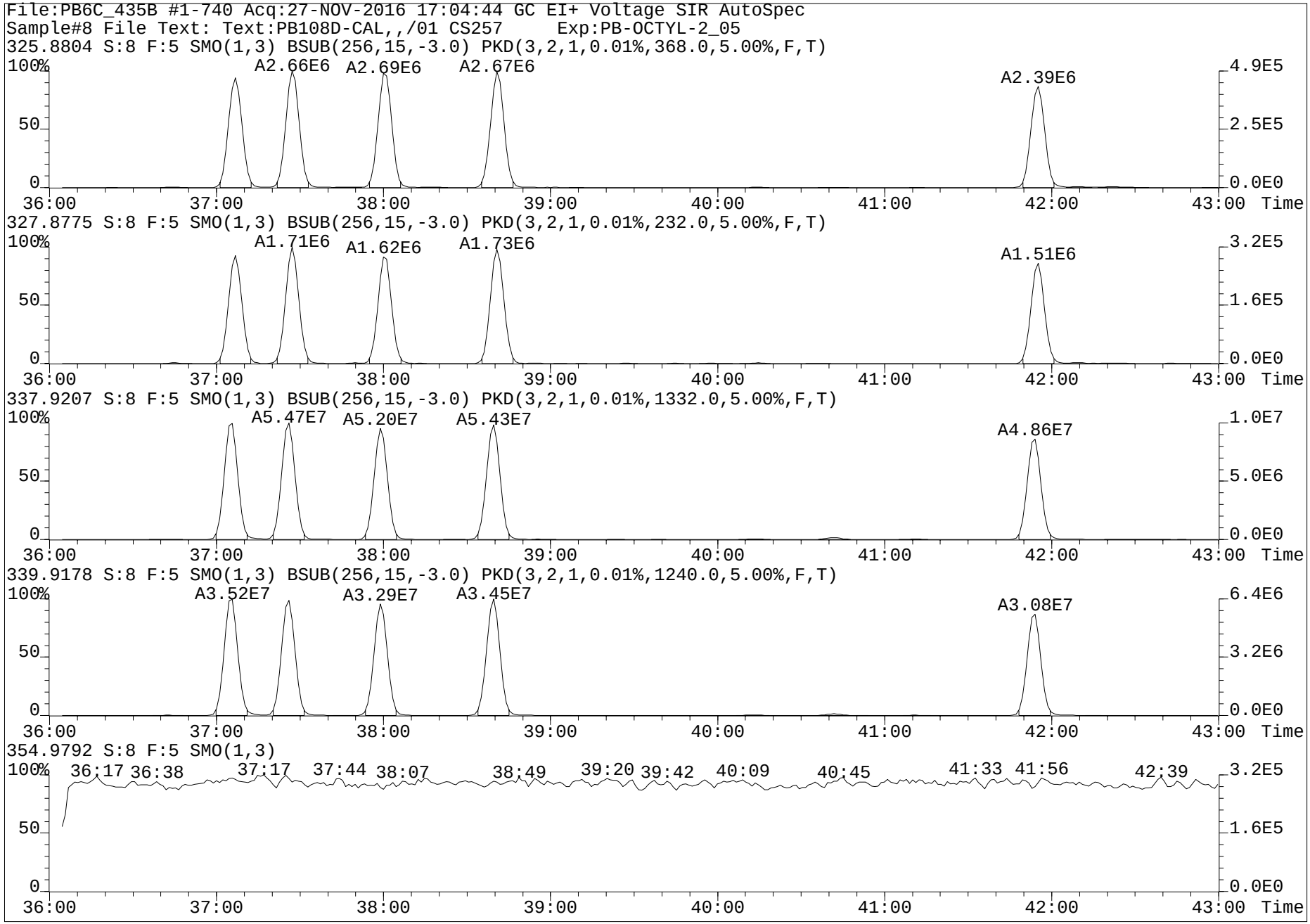

File:PB6C_435B #1-366 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
255.9613 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A2.24E6
257.9584 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.00E6
268.0016 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6912.0,5.00%,F,T)
A4.53E7
269.9986 S:8 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5160.0,5.00%,F,T)
A4.35E7
242.9856 S:8 F:2 SMO(1,3)
16:57 17:14 17:27 17:46 18:10 18:21 18:41 19:00 19:14 19:31 19:57
100%
50
0
5.6E5
2.8E5
0.0E0
5.0E5
2.5E5
1.1E7
5.5E6
5.3E6
7.8E5
3.9E5
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

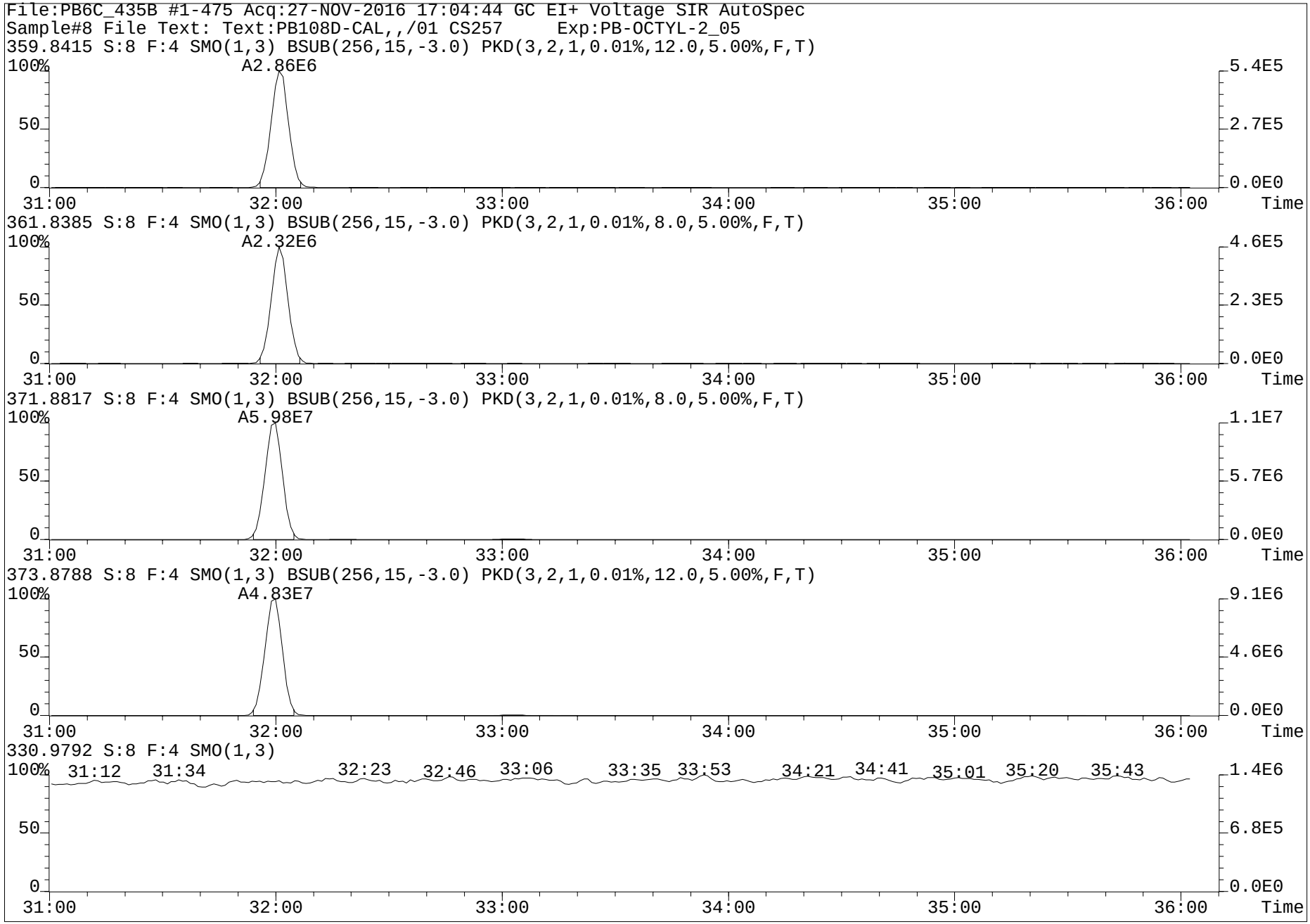

File:PB6C_435B #1-516 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
255.9613 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,540.0,5.00%,F,T)
A3.41E6
A3.28E6
257.9584 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,448.0,5.00%,F,T)
A3.26E6
A3.19E6
268.0016 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12640.0,5.00%,F,T)
A7.19E7
A6.70E7
269.9986 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5724.0,5.00%,F,T)
A6.84E7
A6.44E7
280.9825 S:8 F:3 SMO(1,3)
20:18 20:45 21:37 22:22 23:02 23:29 24:02 24:25 24:49 25:14 25:40 26:11 26:56 27:30
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
7.4E5 3.7E5 0.0E0
7.1E5 3.6E5 0.0E0
1.6E7 7.8E6 0.0E0
1.5E7 7.5E6 0.0E0
2.3E6 1.2E6 0.0E0

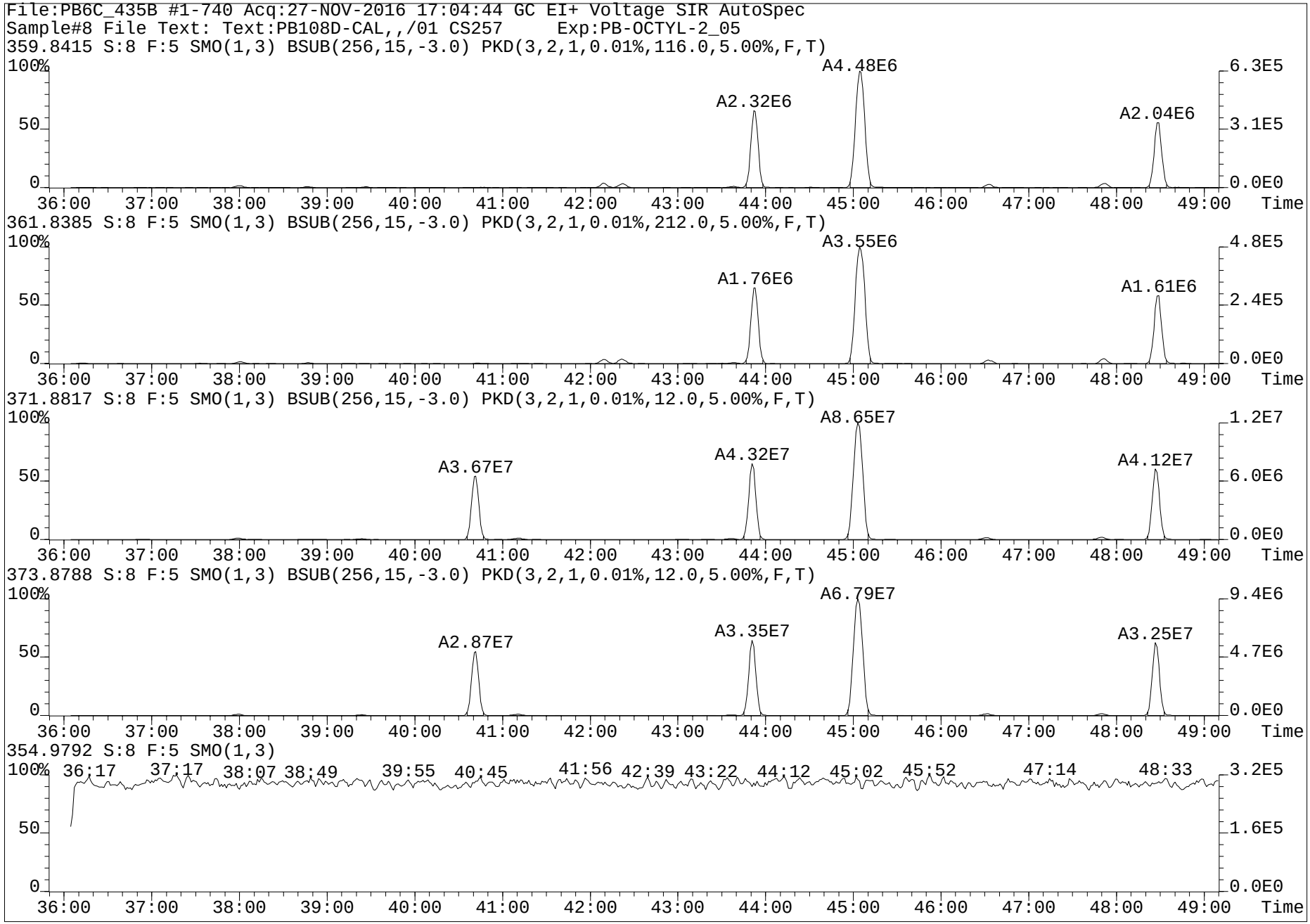

File:PB6C_435B #1-516 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
289.9224 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
100% A2.62E6
6.0E5
3.0E5
0.0E0
291.9199 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
100% A3.23E6
7.4E5
3.7E5
0.0E0
301.9626 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1816.0,5.00%,F,T)
100% A5.06E7
A3.65E7
1.2E7
5.9E6
0.0E0
303.9597 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1148.0,5.00%,F,T)
100% A6.43E7
A4.58E7
1.5E7
7.6E6
0.0E0
280.9825 S:8 F:3 SMO(1,3)
100%
20:18 20:45 21:37 22:22 23:02 23:29 24:02 24:25 24:49 25:14 25:40 26:11 26:56 27:30
2.3E6
1.2E6
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

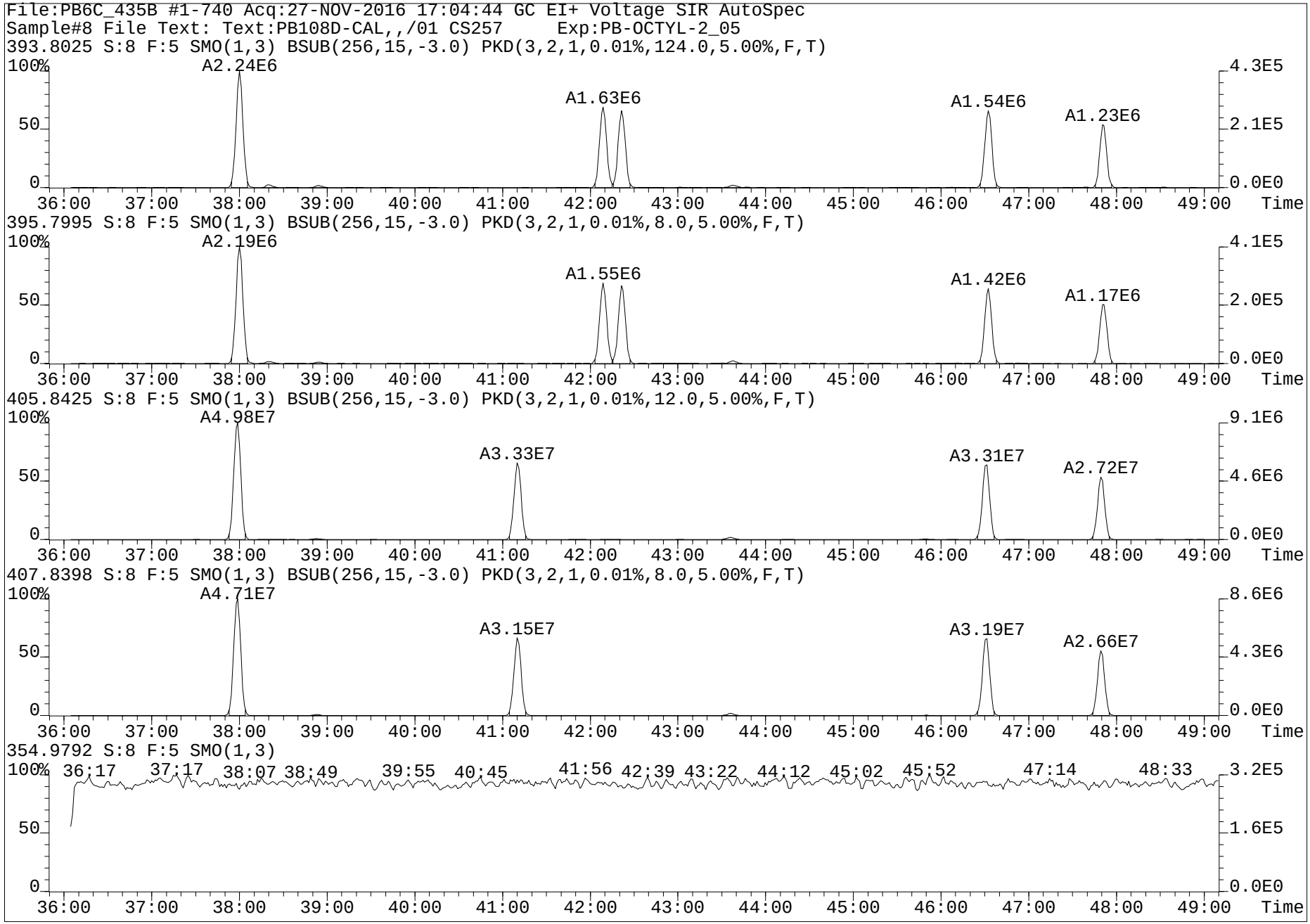

File:PB6C_435B #1-475 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
289.9224 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A2.31E6 A2.35E6
291.9194 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,384.0,5.00%,F,T)
A2.95E6 A3.02E6
301.9626 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2476.0,5.00%,F,T)
A4.70E7 A4.92E7
303.9597 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1240.0,5.00%,F,T)
A6.06E7 A6.24E7
330.9792 S:8 F:4 SMO(1,3)
28:18 28:56 29:29 30:07 30:42 31:34 32:15 32:46 33:22 33:53 34:21 35:01 35:43
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
4.3E5 2.1E5 0.0E0
5.6E5 2.8E5 0.0E0
9.2E6 4.6E6 0.0E0
1.2E7 5.8E6 0.0E0
1.4E6 6.8E5 0.0E0

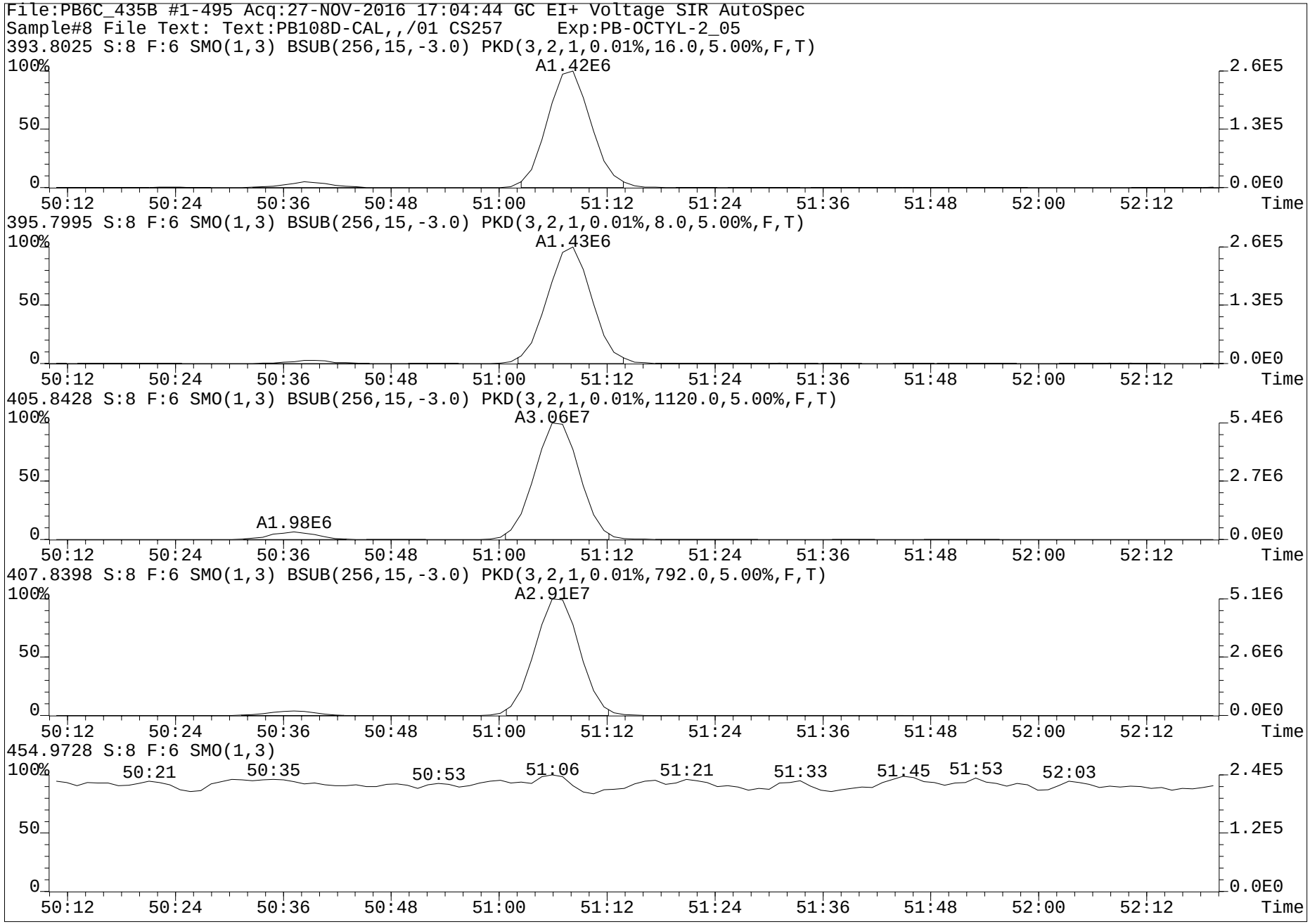

File:PB6C_435B #1-516 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
325.8804 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.28E6
6.7E5
3.4E5
0.0E0
327.8775 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.11E6
4.4E5
2.2E5
0.0E0
337.9207 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A6.44E7
1.3E7
6.7E6
0.0E0
339.9178 S:8 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.10E7
8.6E6
4.3E6
0.0E0
280.9825 S:8 F:3 SMO(1,3)
20:18 20:45 21:37 22:22 23:02 23:29 24:02 24:25 24:49 25:14 25:40 26:11 26:56 27:30
2.3E6
1.2E6
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

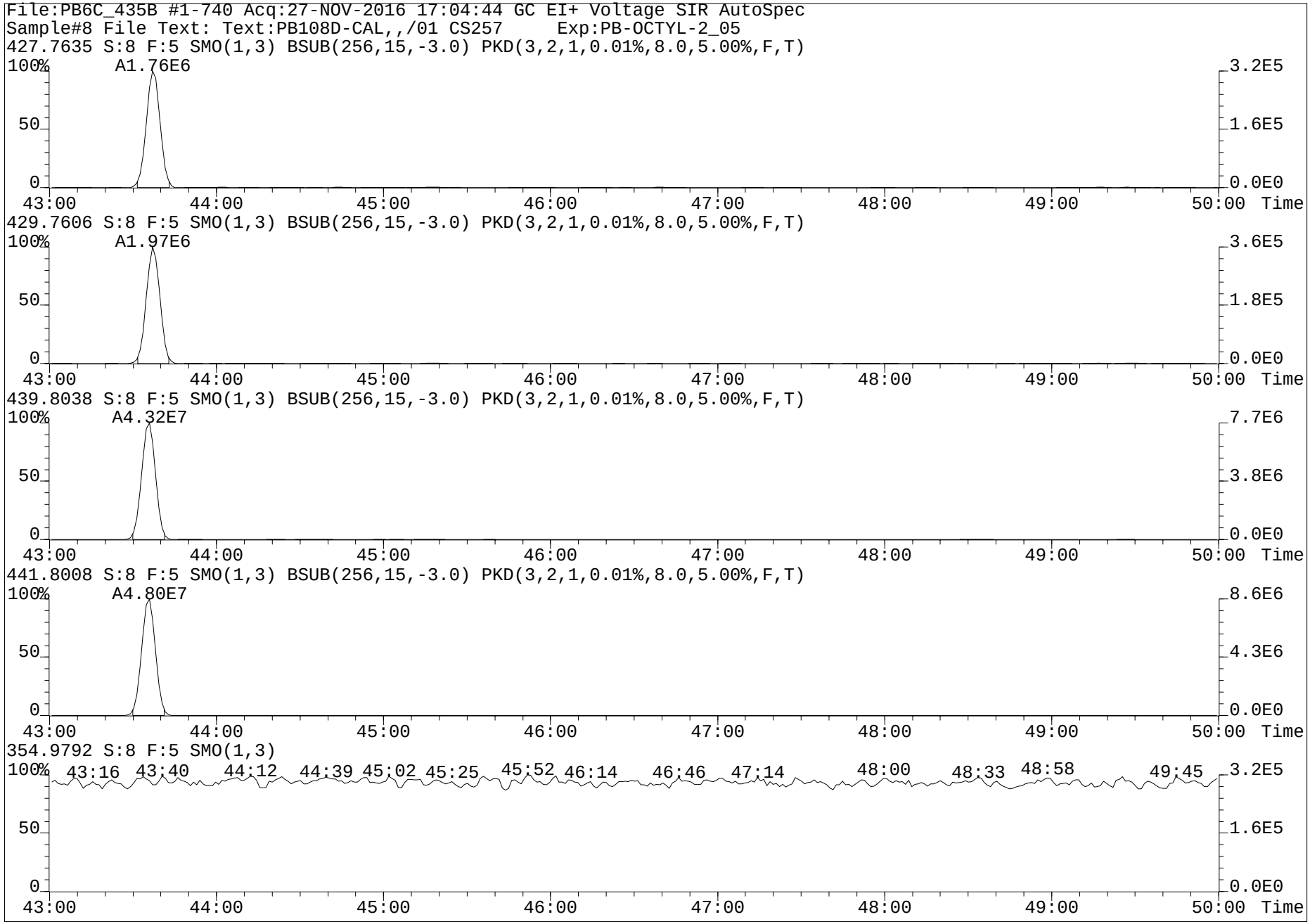

File:PB6C_435B #1-740 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
325.8804 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,368.0,5.00%,F,T)
A2.66E6
A2.69E6
A2.67E6
A2.39E6
327.8775 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A1.71E6
A1.62E6
A1.73E6
A1.51E6
337.9207 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1332.0,5.00%,F,T)
A5.47E7
A5.20E7
A5.43E7
A4.86E7
339.9178 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1240.0,5.00%,F,T)
A3.52E7
A3.29E7
A3.45E7
A3.08E7
354.9792 S:8 F:5 SMO(1,3)
36:17 36:38 37:17 37:44 38:07 38:49 39:20 39:42 40:09 40:45 41:33 41:56 42:39
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 Time
4.9E5
2.5E5
0.0E0
3.2E5
1.6E5
1.0E7
5.0E6
6.4E6
3.2E6

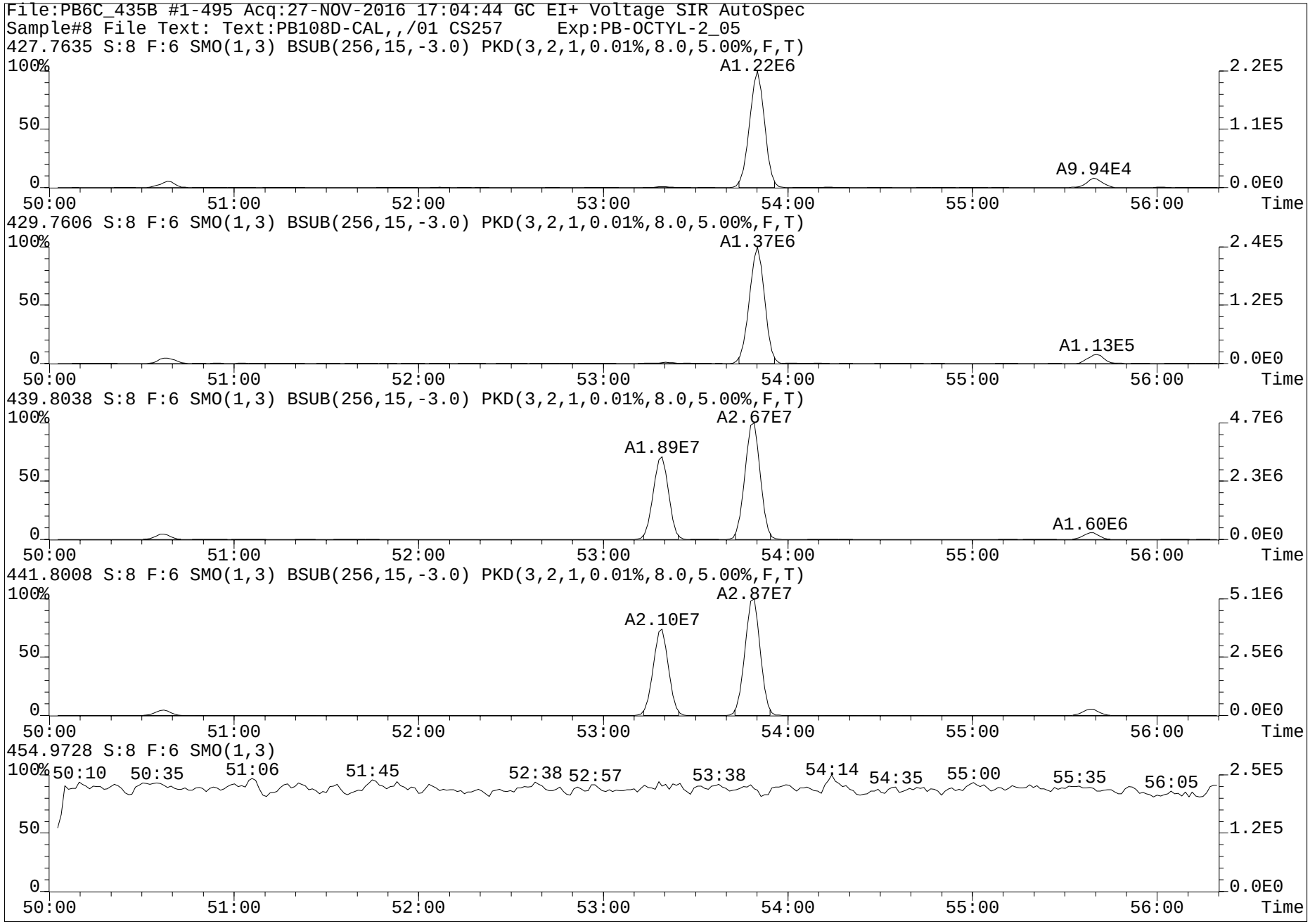

File:PB6C_435B #1-475 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
359.8415 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.86E6
361.8385 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.32E6
371.8817 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.98E7
373.8788 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.83E7
330.9792 S:8 F:4 SMO(1,3)
31:12 31:34 32:23 32:46 33:06 33:35 33:53 34:21 34:41 35:01 35:20 35:43
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time
5.4E5 2.7E5 0.0E0
4.6E5 2.3E5 0.0E0
1.1E7 5.7E6 0.0E0
9.1E6 4.6E6 0.0E0
1.4E6 6.8E5 0.0E0

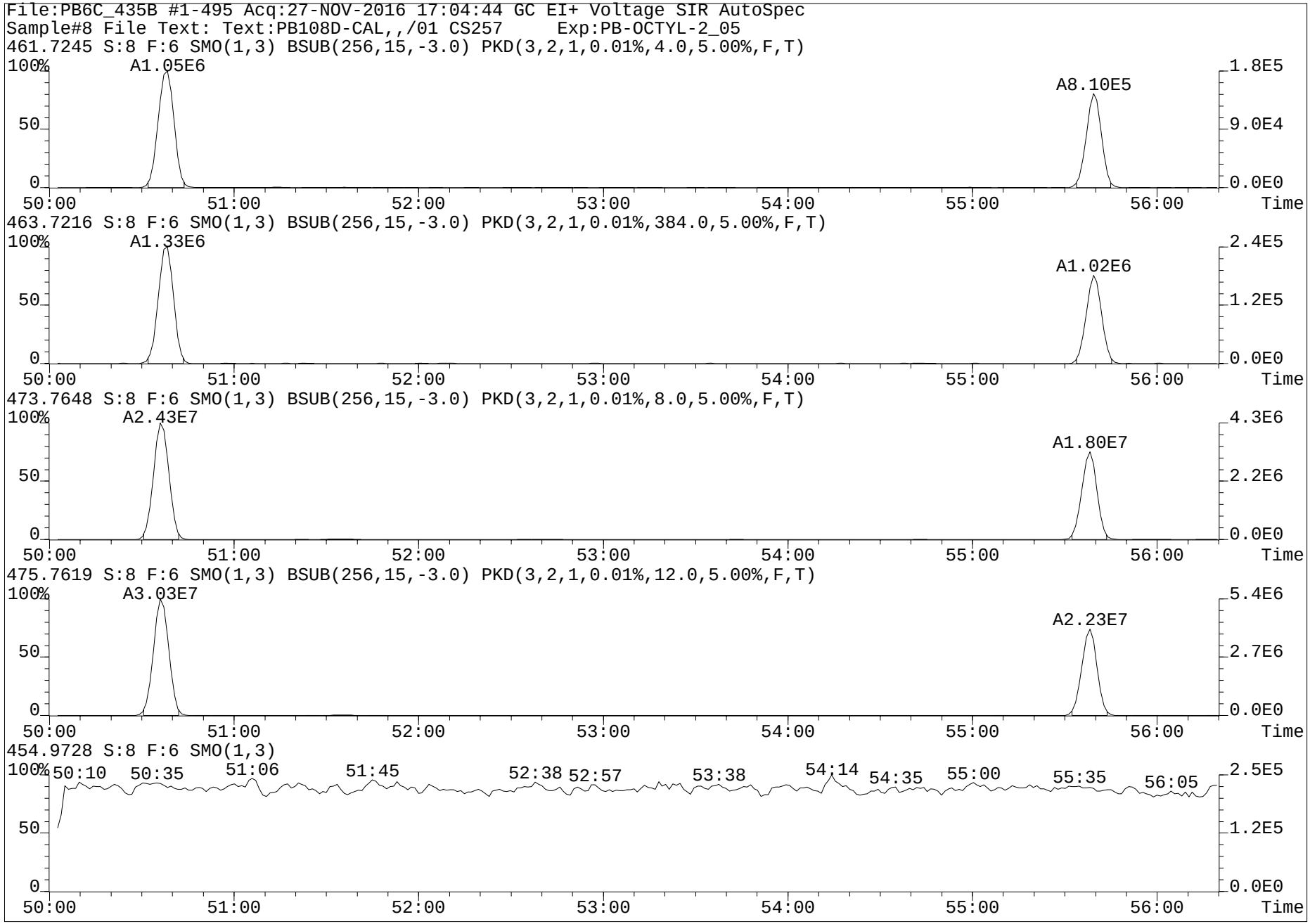

File:PB6C_435B #1-740 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
359.8415 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A2.32E6
A4.48E6
A2.04E6
361.8385 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,212.0,5.00%,F,T)
A1.76E6
A3.55E6
A1.61E6
371.8817 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.67E7
A4.32E7
A8.65E7
A4.12E7
373.8788 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.87E7
A3.35E7
A6.79E7
A3.25E7
354.9792 S:8 F:5 SMO(1,3)
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
6.3E5
3.1E5
0.0E0
4.8E5
2.4E5
1.2E7
6.0E6
9.4E6
4.7E6
3.2E5
1.6E5

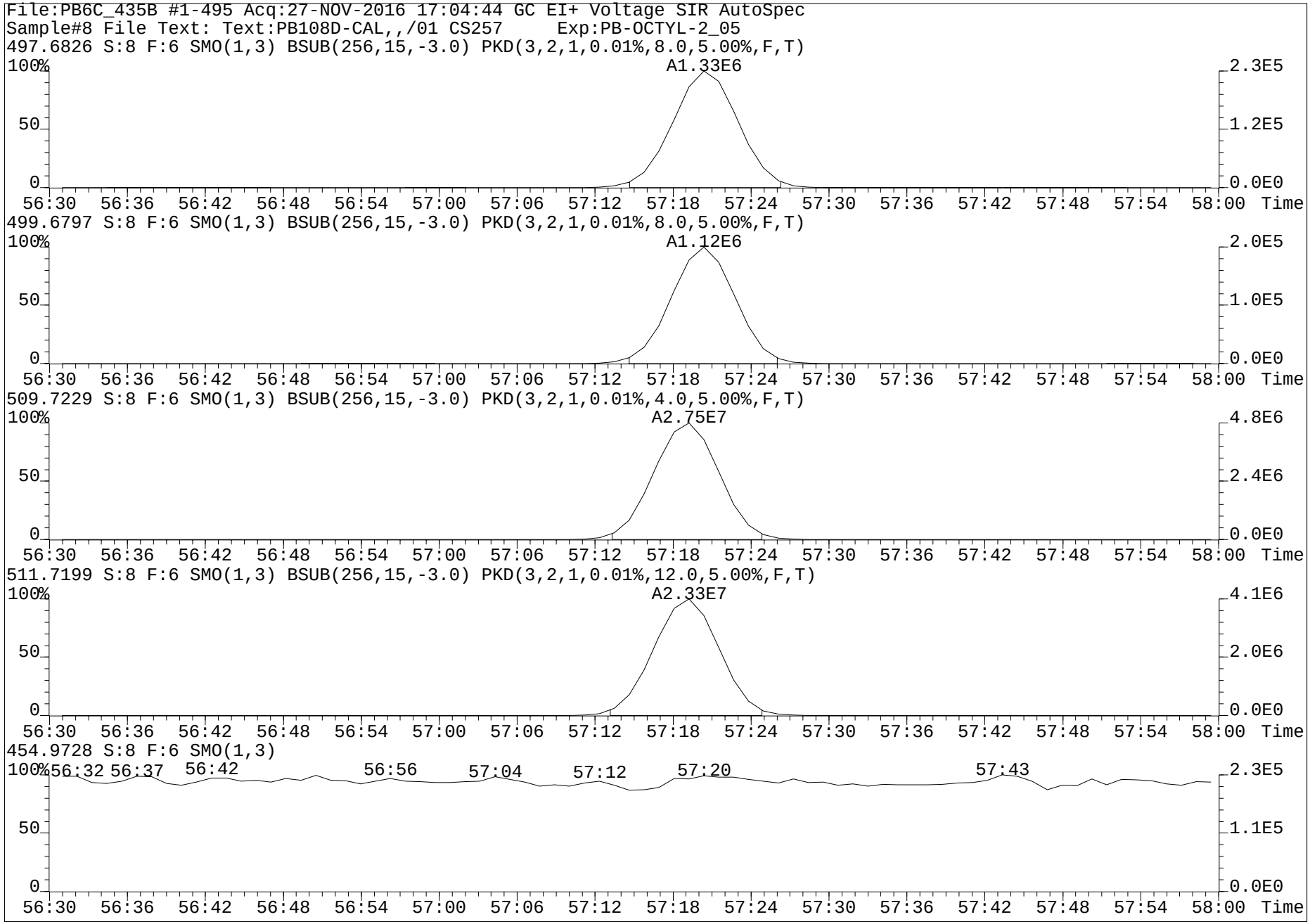

File:PB6C_435B #1-740 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
393.8025 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A2.24E6
A1.63E6
A1.54E6
A1.23E6
395.7995 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.19E6
A1.55E6
A1.42E6
A1.17E6
405.8425 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.98E7
A3.33E7
A3.31E7
A2.72E7
407.8398 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.71E7
A3.15E7
A3.19E7
A2.66E7
354.9792 S:8 F:5 SMO(1,3)
36:17 37:17 38:07 38:49 39:55 40:45 41:56 42:39 43:22 44:12 45:02 45:52 47:14 48:33
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
4.3E5
2.1E5
0.0E0
4.1E5
2.0E5
9.1E6
4.6E6
8.6E6
4.3E6
3.2E5
1.6E5

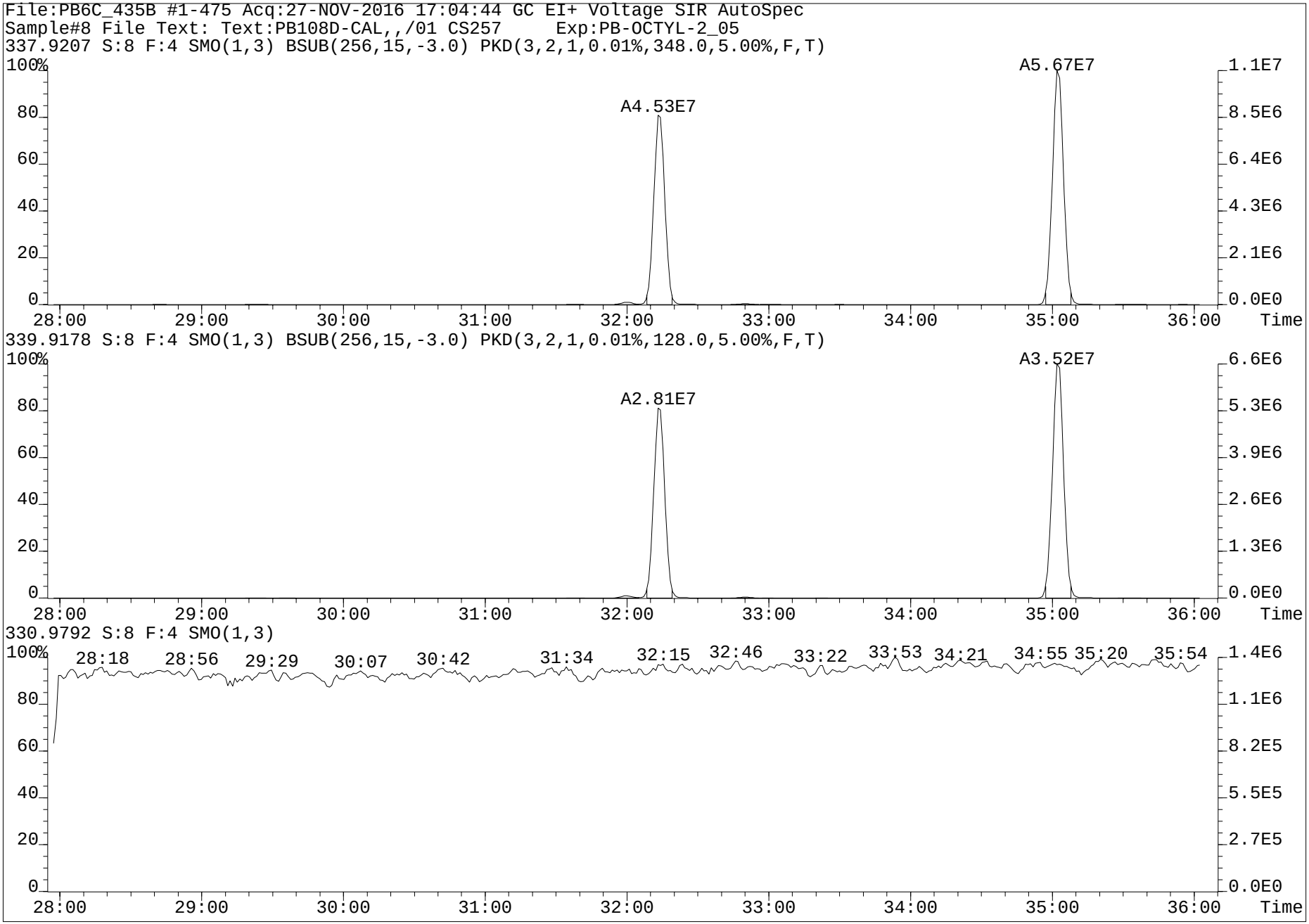

File:PB6C_435B #1-495 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
393.8025 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A1.42E6
395.7995 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.43E6
405.8428 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1120.0,5.00%,F,T)
A3.06E7
A1.98E6
407.8398 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,792.0,5.00%,F,T)
A2.91E7
454.9728 S:8 F:6 SMO(1,3)
50:21
50:35
50:53
51:06
51:21
51:33
51:45
51:53
52:03
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
2.6E5
1.3E5
0.0E0
5.4E6
2.7E6
5.1E6
2.6E6
2.4E5
1.2E5


File:PB6C_435B #1-740 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
427.7635 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A1.76E6
3.2E5
1.6E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
429.7606 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A1.97E6
3.6E5
1.8E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
439.8038 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.32E7
7.7E6
3.8E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
441.8008 S:8 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.80E7
8.6E6
4.3E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
354.9792 S:8 F:5 SMO(1,3)
100% 43:16 43:40 44:12 44:39 45:02 45:25 45:52 46:14 46:46 47:14 48:00 48:33 48:58 49:45
3.2E5
1.6E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-495 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
427.7635 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.22E6
A9.94E4
429.7606 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.37E6
A1.13E5
439.8038 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.67E7
A1.89E7
A1.60E6
441.8008 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.87E7
A2.10E7
454.9728 S:8 F:6 SMO(1,3)
50:10 50:35 51:06 51:45 52:38 52:57 53:38 54:14 54:35 55:00 55:35 56:05
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
2.2E5 1.1E5 0.0E0
2.4E5 1.2E5 0.0E0
4.7E6 2.3E6 0.0E0
5.1E6 2.5E6 0.0E0
2.5E5 1.2E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
461.7245 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4.0,5.00%,F,T)
A1.05E6
A8.10E5
463.7216 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,384.0,5.00%,F,T)
A1.33E6
A1.02E6
473.7648 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.43E7
A1.80E7
475.7619 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.03E7
A2.23E7
454.9728 S:8 F:6 SMO(1,3)
50:10 50:35 51:06 51:45 52:38 52:57 53:38 54:14 54:35 55:00 55:35 56:05
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
1.8E5 9.0E4 0.0E0
2.4E5 1.2E5 0.0E0
4.3E6 2.2E6 0.0E0
5.4E6 2.7E6 0.0E0
2.5E5 1.2E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
497.6826 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.33E6
499.6797 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.12E6
509.7229 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4.0,5.00%,F,T)
A2.75E7
511.7199 S:8 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.33E7
454.9728 S:8 F:6 SMO(1,3)
56:32 56:37 56:42 56:56 57:04 57:12 57:20 57:43
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.3E5
1.2E5
0.0E0
2.0E5
1.0E5
4.8E6
2.4E6
4.1E6
2.0E6
1.1E5


File:PB6C_435B #1-475 Acq:27-NOV-2016 17:04:44 GC EI+ Voltage SIR AutoSpec
Sample#8 File Text: Text:PB108D-CAL,,/01 CS257 Exp:PB-OCTYL-2_05
337.9207 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,348.0,5.00%,F,T)
A4.53E7
A5.67E7
339.9178 S:8 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A2.81E7
A3.52E7
330.9792 S:8 F:4 SMO(1,3)
28:18
28:56
29:29
30:07
30:42
31:34
32:15
32:46
33:22
33:53
34:21
34:55
35:20
35:54
Time

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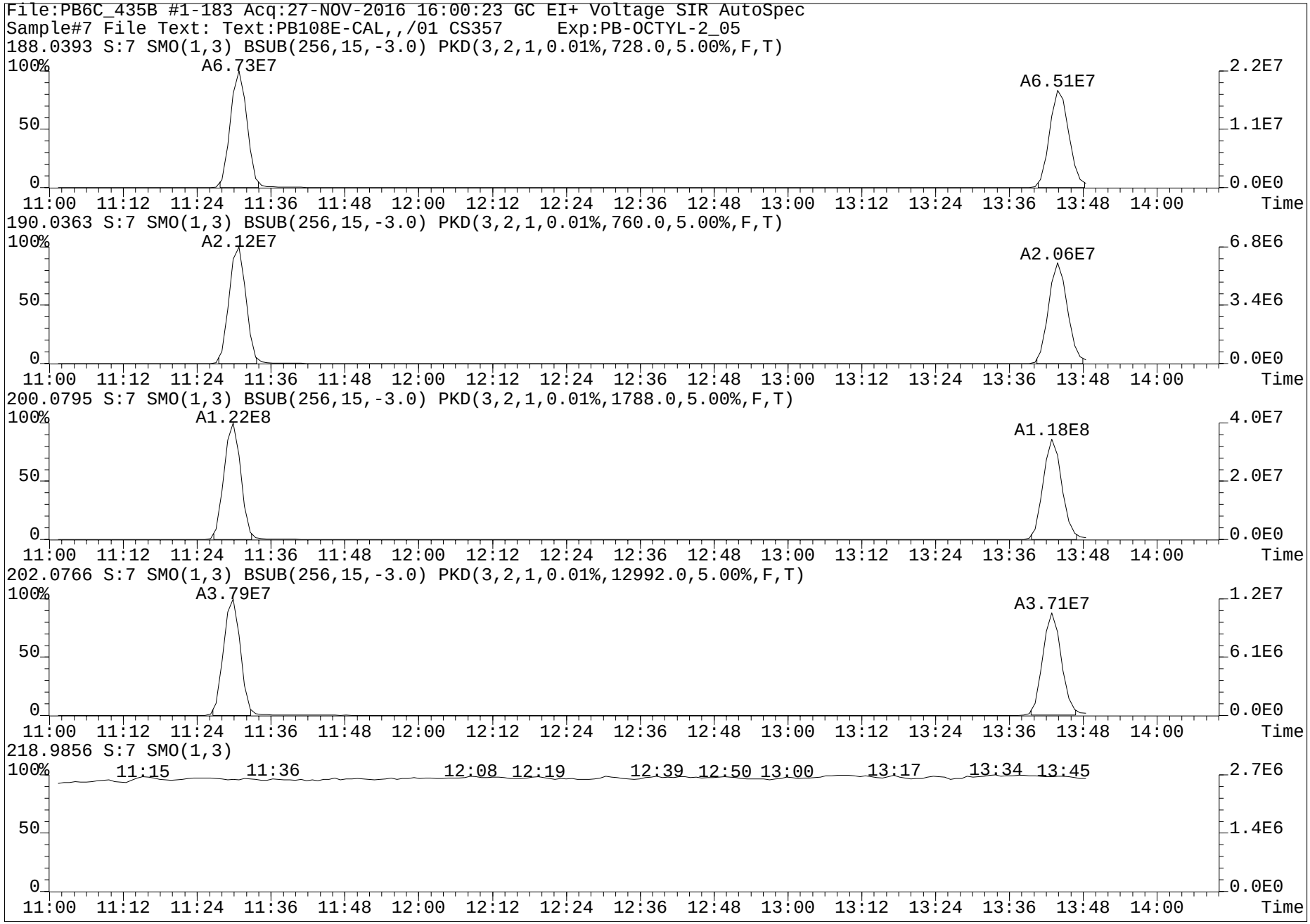
Run #4 Filename PB6C_435B S: 7 I: 1 Acquired: 27-NOV-16 16:00:23 Processed: 28-NOV-16 14:50:12
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: PB9C_274A-CAL Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108E-CAL,,/01 CS357 Comments: 1,,1.0uL CS-3 F1: 50.00 F2: 1.00

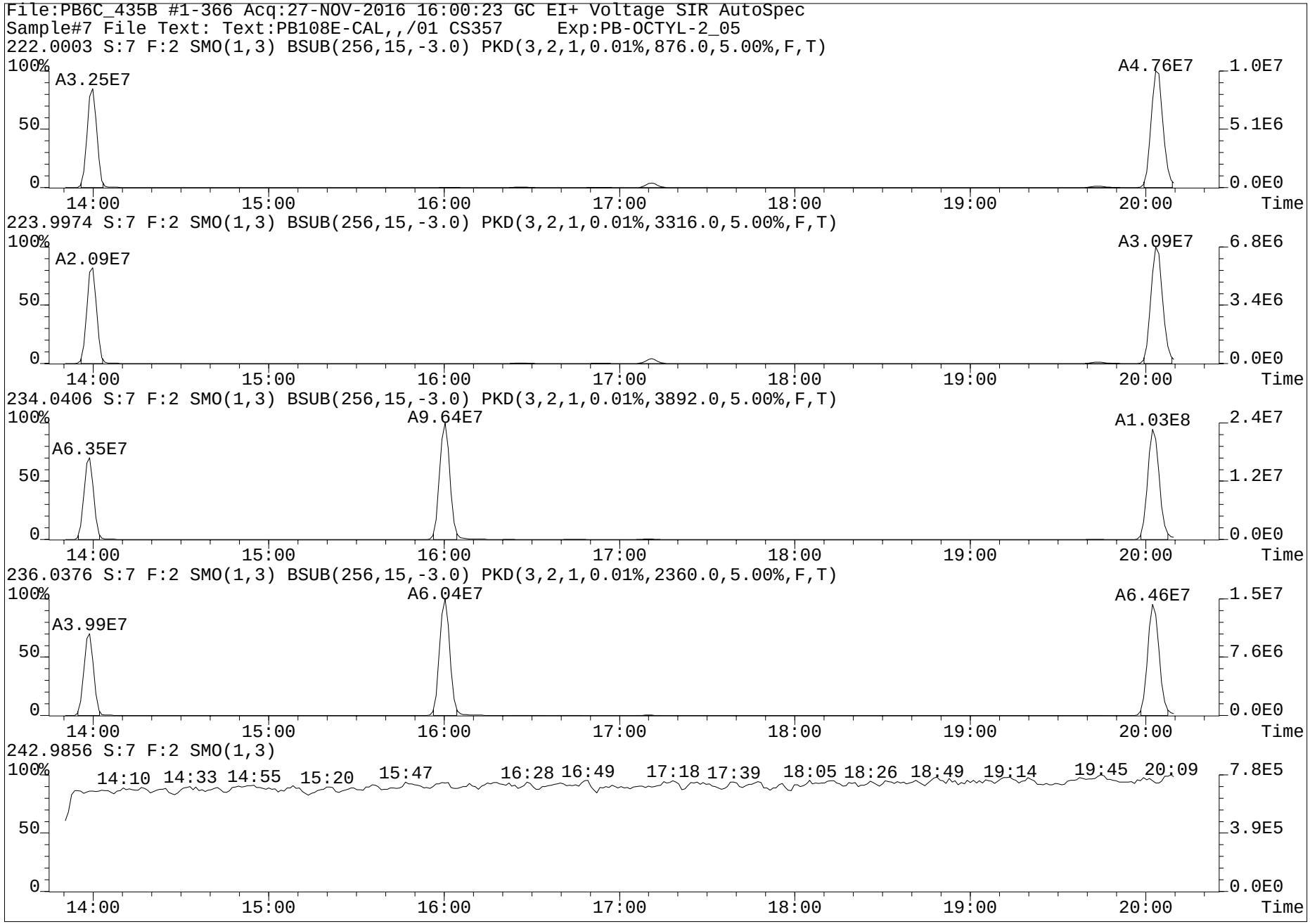
| | Typ | Name | Amount | Resp | RA | RT | s/n | RF | RRF | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 50.00 | 8.85e+07 | 3.17 y | 11:31 | 3.0e+04 | - | 1.1095 | y n |
| 2 | Unk | CL1-PCB-3 | 50.00 | 8.57e+07 | 3.16 y | 13:44 | 2.5e+04 | - | 1.1078 | y n |
| 3 | Unk | CL2-PCB-4 | 50.00 | 5.34e+07 | 1.55 y | 13:59 | 1.0e+04 | - | 1.0335 | y n |
| 4 | Unk | CL2-PCB-15 | 50.00 | 7.85e+07 | 1.54 y | 20:04 | 1.2e+04 | - | 0.9391 | y n |
| 5 | Unk | CL3-PCB-19 | 50.00 | 4.61e+07 | 1.06 y | 17:11 | 8.7e+03 | - | 0.9963 | y n |
| 6 | Unk | CL3-PCB-37 | 50.00 | 7.27e+07 | 1.04 y | 27:22 | 5.1e+03 | - | 1.0182 | y n |
| 7 | Unk | CL4-PCB-54 | 50.00 | 6.30e+07 | 0.79 y | 20:21 | 1.4e+04 | - | 1.0429 | y n |
| 8 | Unk | CL4-PCB-81 | 50.00 | 5.91e+07 | 0.78 y | 34:25 | 1.1e+04 | - | 1.0184 | y n |
| 9 | Unk | CL4-PCB-77 | 50.00 | 6.00e+07 | 0.78 y | 35:00 | 1.1e+04 | - | 0.9768 | y n |
| 10 | Unk | CL5-PCB-104 | 50.00 | 5.80e+07 | 1.58 y | 26:05 | 2.4e+04 | - | 1.0590 | y n |
| 11 | Unk | CL5-PCB-123 | 50.00 | 4.77e+07 | 1.55 y | 37:07 | 4.0e+03 | - | 0.9589 | y n |
| 12 | Unk | CL5-PCB-118 | 50.00 | 4.99e+07 | 1.56 y | 37:27 | 4.2e+03 | - | 1.0286 | y n |
| 13 | Unk | CL5-PCB-114 | 50.00 | 4.92e+07 | 1.57 y | 38:00 | 4.2e+03 | - | 1.0645 | y n |
| 14 | Unk | CL5-PCB-105 | 50.00 | 4.97e+07 | 1.56 y | 38:41 | 4.2e+03 | - | 1.0226 | y n |
| 15 | Unk | CL5-PCB-126 | 50.00 | 4.55e+07 | 1.57 y | 41:55 | 3.7e+03 | - | 1.0360 | y n |
| 16 | Unk | CL6-PCB-155 | 50.00 | 5.85e+07 | 1.25 y | 32:01 | 1.6e+04 | - | 0.9939 | y n |
| 17 | Unk | CL6-PCB-167 | 50.00 | 4.66e+07 | 1.25 y | 43:52 | 1.1e+04 | - | 1.1046 | y n |
| 18 | Unk | CL6-PCB-156/157 | 100.00 | 9.24e+07 | 1.25 y | 45:04 | 1.6e+04 | - | 1.0781 | y n |
| 19 | Unk | CL6-PCB-169 | 50.00 | 4.15e+07 | 1.26 y | 48:28 | 9.6e+03 | - | 1.0148 | y n |
| 20 | Unk | CL7-PCB-188 | 50.00 | 4.89e+07 | 1.04 y | 38:00 | 1.6e+04 | - | 0.9463 | y n |
| 21 | Unk | CL7-PCB-189 | 50.00 | 3.34e+07 | 1.03 y | 51:08 | 5.0e+03 | - | 1.0032 | y n |
| 22 | Unk | CL8-PCB-202 | 50.00 | 4.22e+07 | 0.89 y | 43:37 | 3.0e+05 | - | 0.8559 | y n |
| 23 | Unk | CL8-PCB-205 | 50.00 | 2.88e+07 | 0.90 y | 53:50 | 1.6e+04 | - | 0.9433 | y n |
| 24 | Unk | CL9-PCB-208 | 50.00 | 2.71e+07 | 0.78 y | 50:38 | 1.4e+04 | - | 0.9004 | y n |
| 25 | Unk | CL9-PCB-206 | 50.00 | 2.09e+07 | 0.78 y | 55:39 | 1.1e+04 | - | 0.9334 | y n |
| 26 | Unk | CL10-PCB-209 | 50.00 | 2.82e+07 | 1.17 y | 57:21 | 3.4e+05 | - | 1.0096 | y n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.59e+08 | 3.20 y | 11:30 | 2.2e+04 | - | 1.0169 | y n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.55e+08 | 3.17 y | 13:43 | 1.9e+04 | - | 0.9867 | y n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 1.03e+08 | 1.59 y | 13:58 | 4.4e+03 | - | 0.6593 | y n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.67e+08 | 1.59 y | 20:02 | 5.9e+03 | - | 1.0670 | y n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 9.25e+07 | 1.04 y | 17:09 | 1.5e+03 | - | 0.5902 | y n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.43e+08 | 1.05 y | 27:20 | 1.3e+03 | - | 1.6219 | y n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.21e+08 | 0.79 y | 20:20 | 9.6e+03 | - | 1.3728 | y n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.16e+08 | 0.78 y | 34:24 | 5.0e+03 | - | 1.3189 | y n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.23e+08 | 0.77 y | 34:59 | 5.2e+03 | - | 1.3962 | y n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.10e+08 | 1.56 y | 26:03 | 1.7e+06 | - | 1.4063 | y n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 9.94e+07 | 1.59 y | 37:05 | 3.5e+03 | - | 1.2757 | y n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 9.70e+07 | 1.55 y | 37:26 | 3.3e+03 | - | 1.2447 | y n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 9.24e+07 | 1.59 y | 37:59 | 3.2e+03 | - | 1.1850 | y n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 9.72e+07 | 1.58 y | 38:39 | 3.3e+03 | - | 1.2467 | y n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 8.78e+07 | 1.57 y | 41:53 | 3.0e+03 | - | 1.1270 | y n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.18e+08 | 1.25 y | 31:59 | 1.6e+06 | - | 1.6661 | y n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 8.44e+07 | 1.28 y | 43:51 | 7.2e+05 | - | 1.1943 | y n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.71e+08 | 1.26 y | 45:03 | 1.1e+06 | - | 1.2134 | y n |

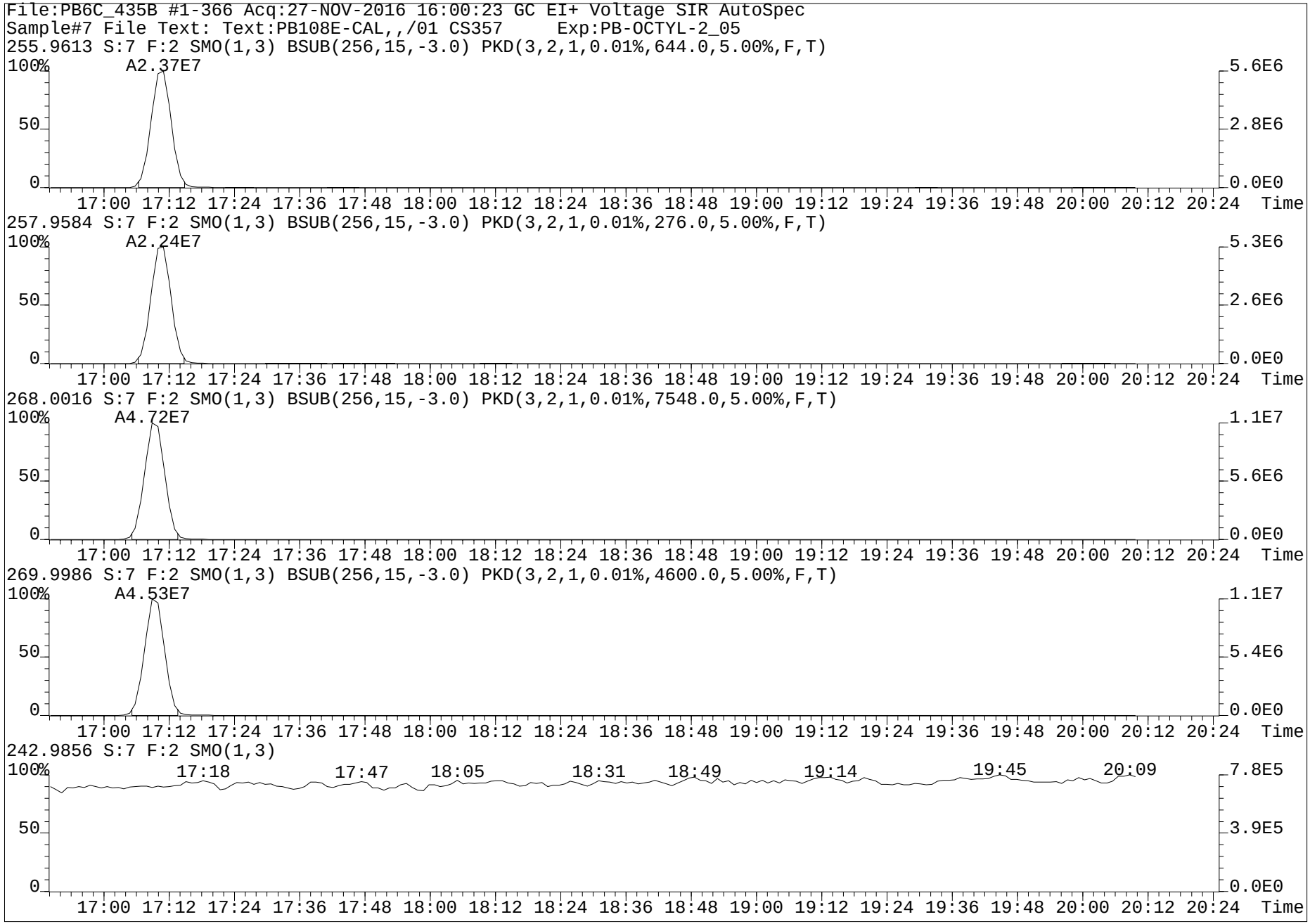
SV-BA 29-Nov-16

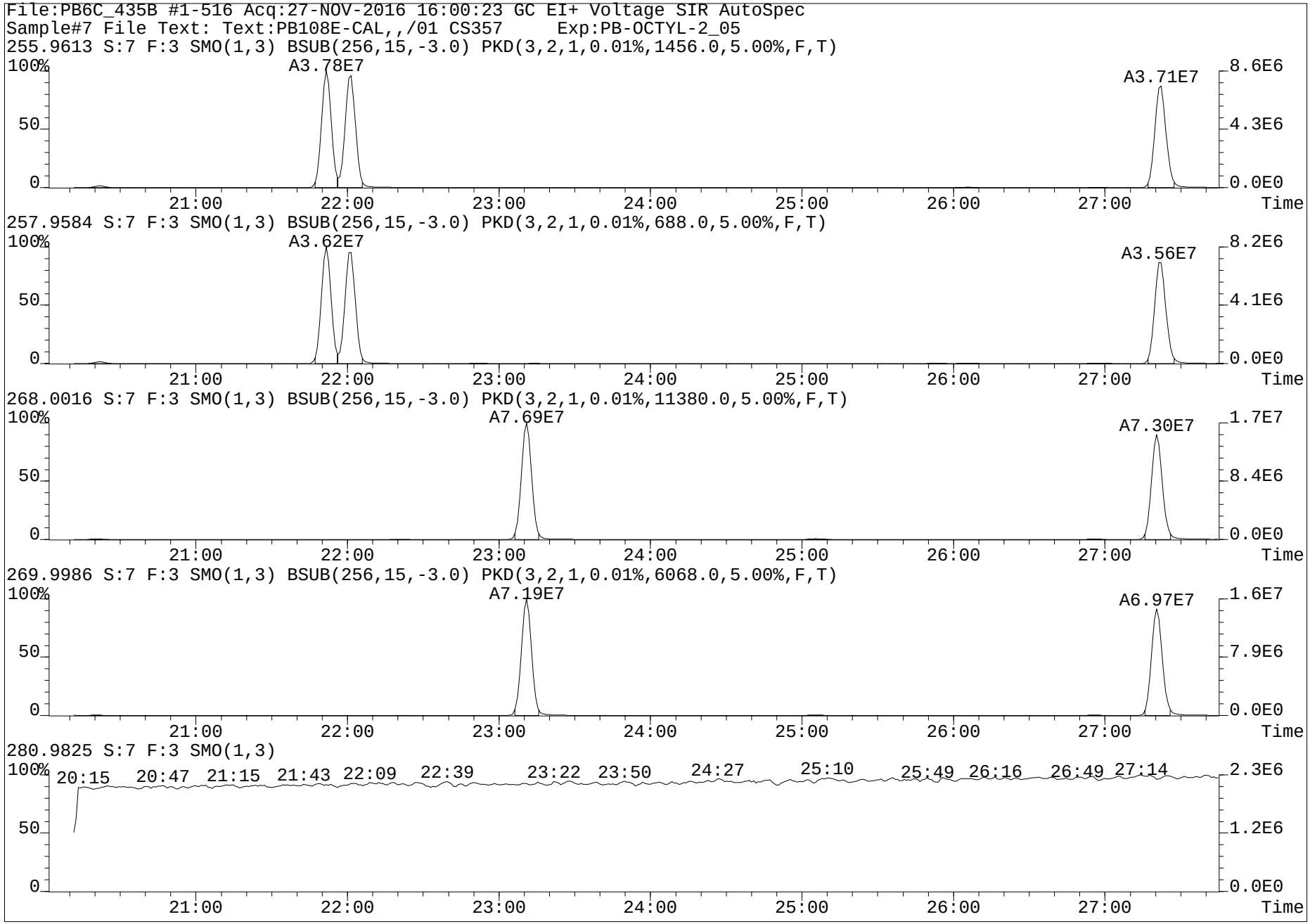
Pvid by PL 29Nov16

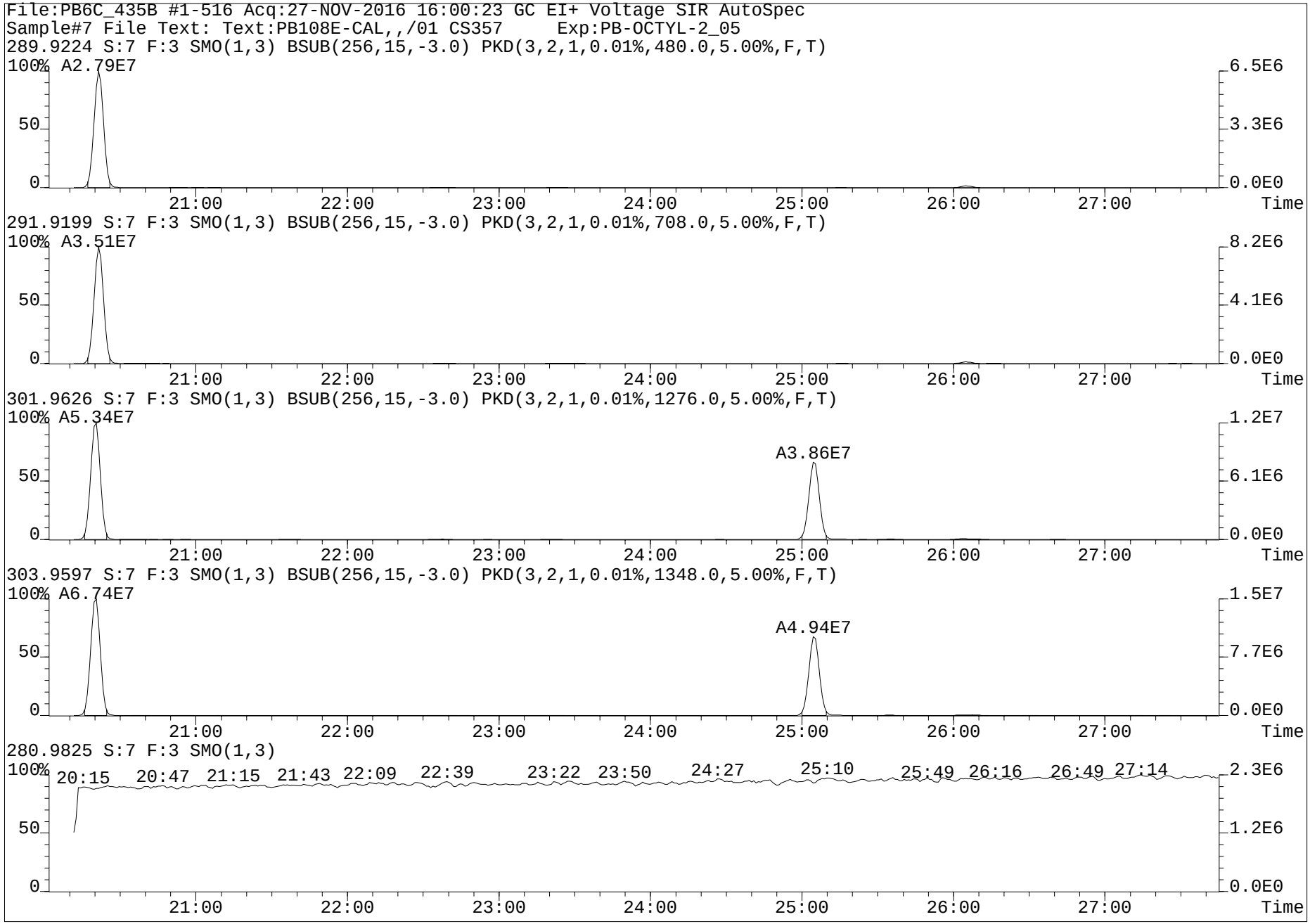
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 8.17e+07 | 1.29 | y | 48:27 | 7.0e+05 | - | 1.1566 | y n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 1.03e+08 | 1.03 | y | 37:58 | 7.9e+05 | - | 2.3254 | y n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 6.65e+07 | 1.06 | y | 51:06 | 1.0e+04 | - | 1.4970 | y n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 9.86e+07 | 0.91 | y | 43:35 | 1.0e+06 | - | 2.2207 | y n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 6.11e+07 | 0.92 | y | 53:48 | 4.2e+05 | - | 1.3748 | y n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 6.01e+07 | 0.79 | y | 50:36 | 4.0e+05 | - | 1.3539 | y n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 4.47e+07 | 0.78 | y | 55:38 | 2.9e+05 | - | 1.0067 | y n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 5.58e+07 | 1.20 | y | 57:19 | 6.7e+05 | - | 1.2572 | y n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.57e+08 | 1.60 | y | 16:00 | 6.3e+03 | 1.57e+06 | - | n n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 8.80e+07 | 0.78 | y | 25:04 | 6.4e+03 | 8.80e+05 | - | n n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 7.79e+07 | 1.57 | y | 32:13 | 4.2e+04 | 7.79e+05 | - | n n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 7.06e+07 | 1.26 | y | 40:41 | 6.0e+05 | 7.06e+05 | - | n n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 4.44e+07 | 0.90 | y | 53:18 | 3.1e+05 | 4.44e+05 | - | n n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.49e+08 | 1.07 | y | 23:11 | 1.5e+03 | - | 1.6908 | y n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 1.01e+08 | 1.58 | y | 35:02 | 5.4e+04 | - | 1.2935 | y n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 6.93e+07 | 1.05 | y | 41:10 | 5.4e+05 | - | 0.9814 | y n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.21e+08 | 0.79 | y | 20:20 | 9.6e+03 | - | 1.3728 | y n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 1.03e+08 | 1.03 | y | 37:58 | 7.9e+05 | - | 2.3254 | y n |
| 63 | LM | CL1-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 64 | LM | CL2-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 65 | LM | CL3-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 68 | LM | CL5-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 69 | LM | CL6-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 71 | LM | CL7-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 72 | LM | CL8-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | | - | - | - | - | n n |
| 74 | LM | CL10-LOCK | 0.00 | - | | | - | - | - | - | n n |

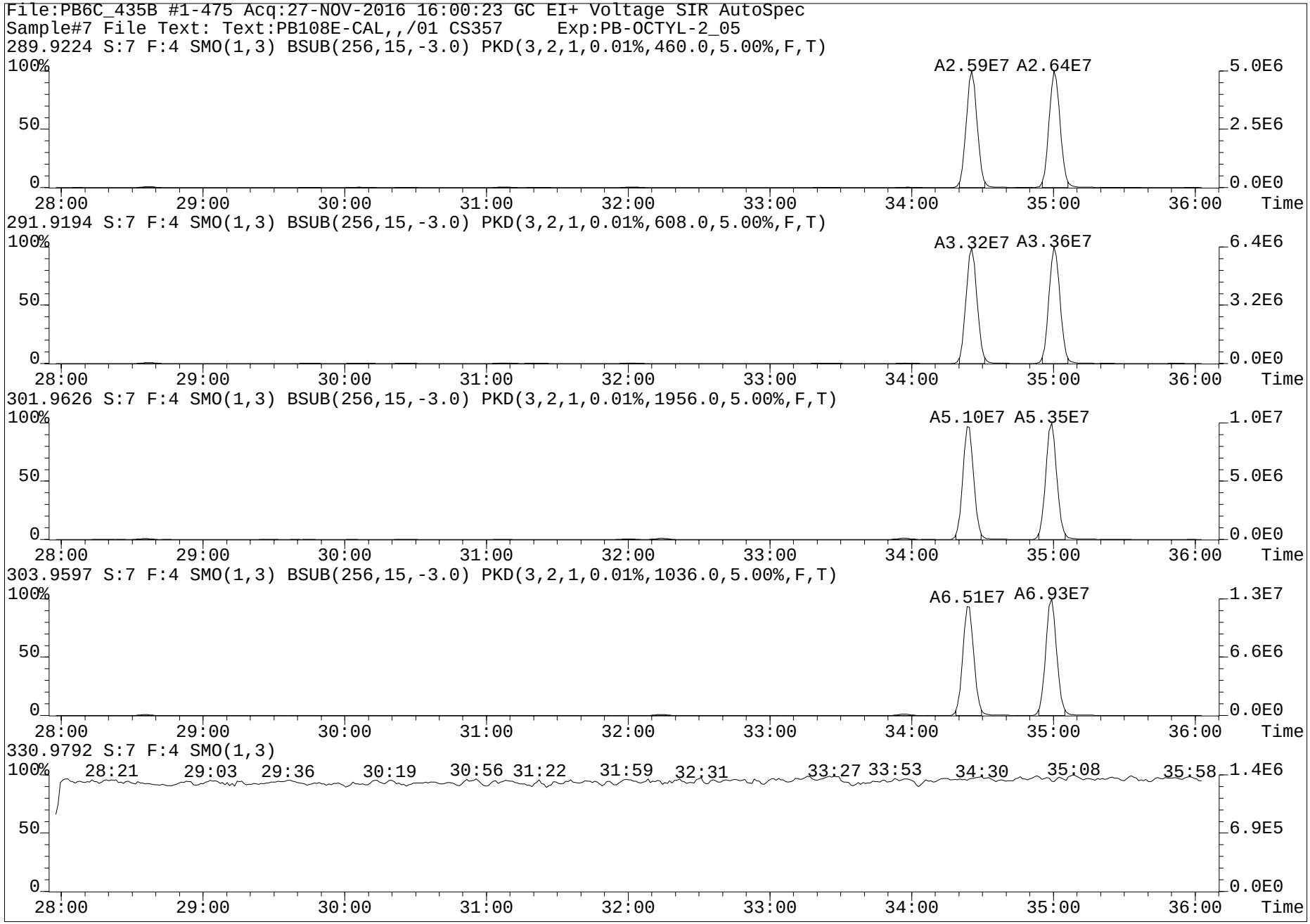

File:PB6C_435B #1-183 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
188.0393 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,728.0,5.00%,F,T)
A6.73E7
A6.51E7
190.0363 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,760.0,5.00%,F,T)
A2.12E7
A2.06E7
200.0795 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1788.0,5.00%,F,T)
A1.22E8
A1.18E8
202.0766 S:7 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12992.0,5.00%,F,T)
A3.79E7
A3.71E7
218.9856 S:7 SMO(1,3)
11:15
11:36
12:08
12:19
12:39
12:50
13:00
13:17
13:34
13:45
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
2.2E7
1.1E7
0.0E0
6.8E6
3.4E6
4.0E7
2.0E7
1.2E7
6.1E6
2.7E6
1.4E6

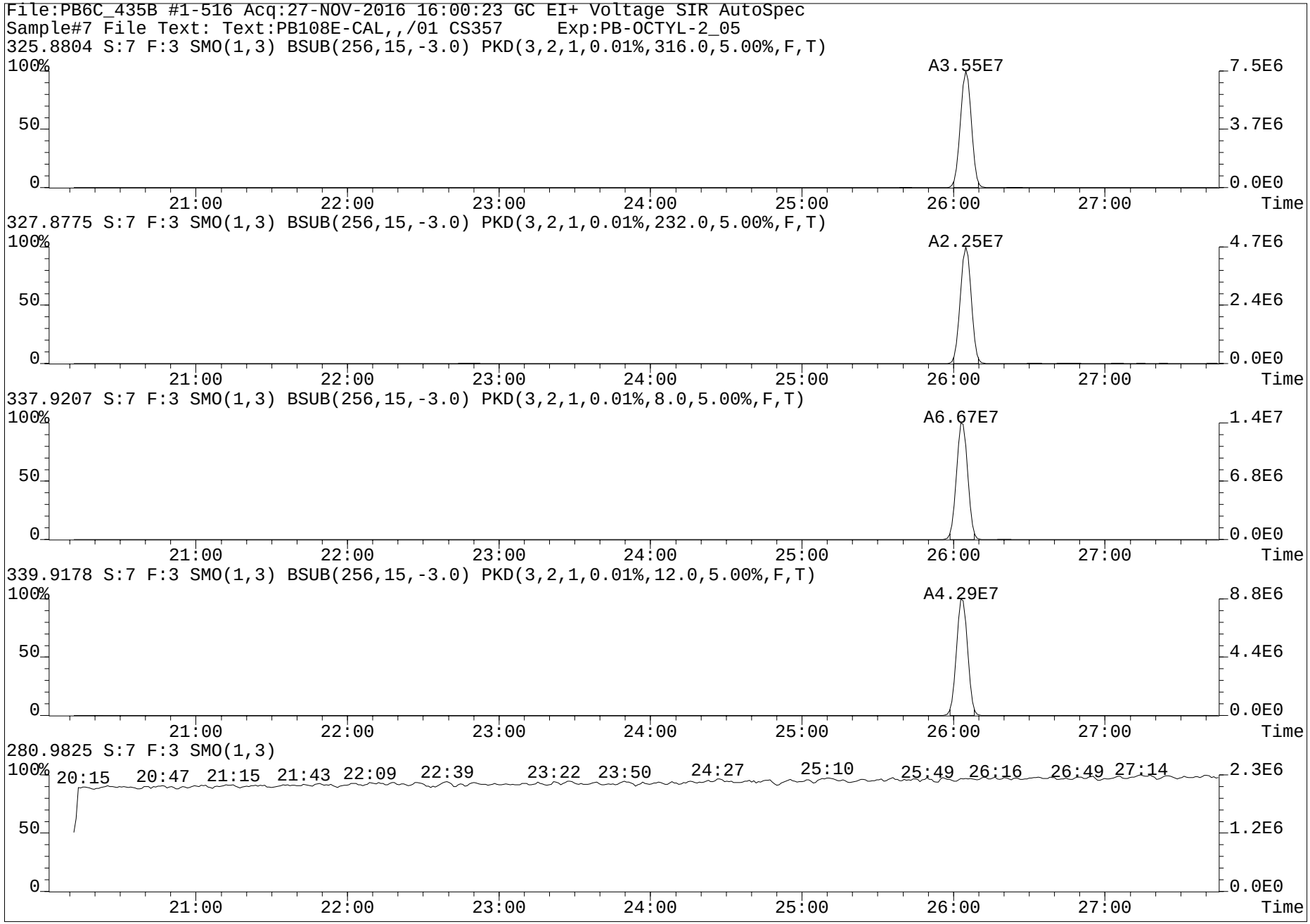

File:PB6C_435B #1-366 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
222.0003 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,876.0,5.00%,F,T)
A3.25E7
A4.76E7
223.9974 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3316.0,5.00%,F,T)
A2.09E7
A3.09E7
234.0406 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3892.0,5.00%,F,T)
A6.35E7
A9.64E7
A1.03E8
236.0376 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2360.0,5.00%,F,T)
A3.99E7
A6.04E7
A6.46E7
242.9856 S:7 F:2 SMO(1,3)
14:10 14:33 14:55 15:20 15:47 16:28 16:49 17:18 17:39 18:05 18:26 18:49 19:14 19:45 20:09
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
1.0E7
5.1E6
0.0E0
6.8E6
3.4E6
2.4E7
1.2E7
1.5E7
7.6E6
7.8E5
3.9E5

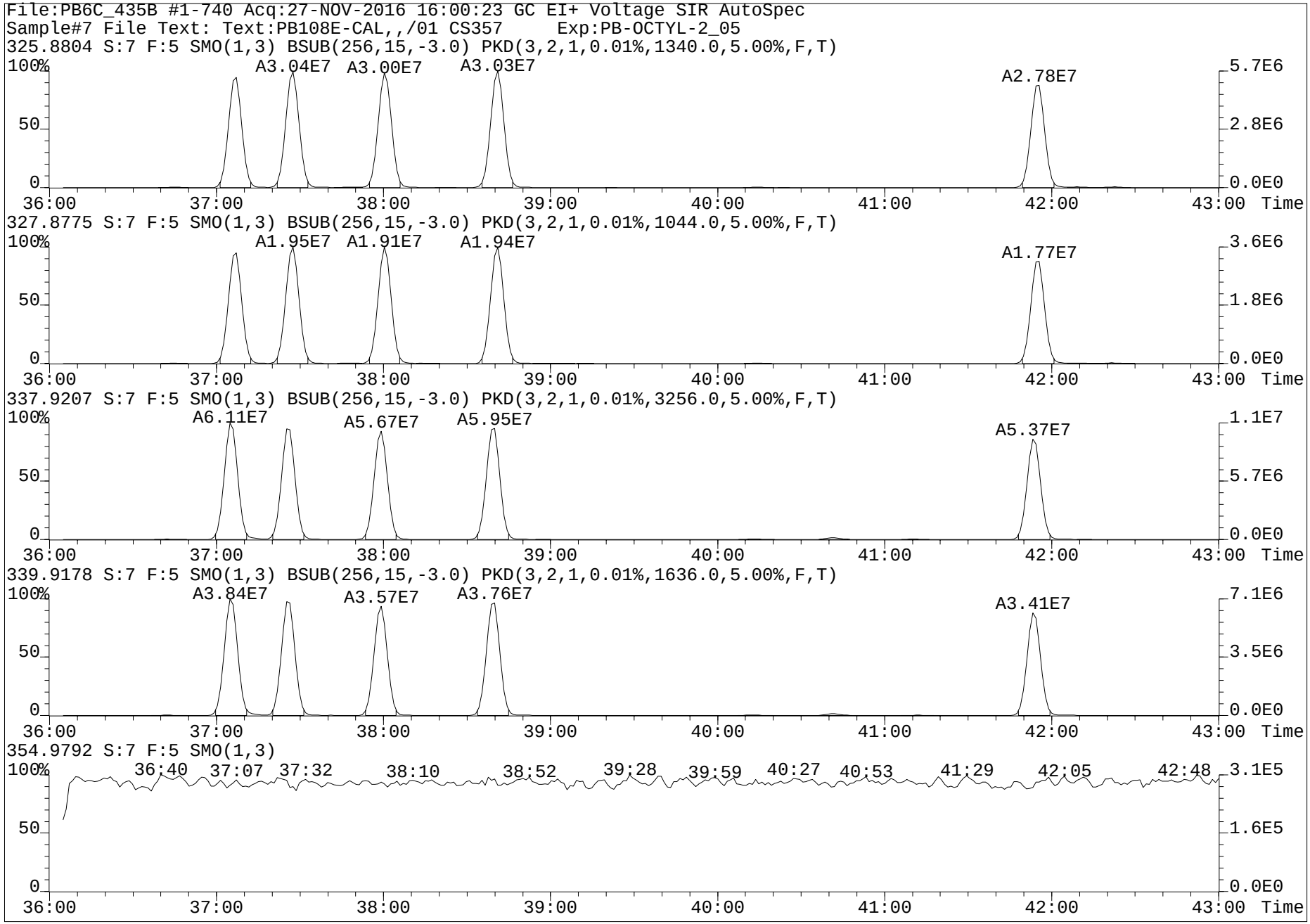

File:PB6C_435B #1-366 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
255.9613 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,644.0,5.00%,F,T)
100% A2.37E7
5.6E6
2.8E6
0.0E0
257.9584 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,276.0,5.00%,F,T)
100% A2.24E7
5.3E6
2.6E6
0.0E0
268.0016 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,7548.0,5.00%,F,T)
100% A4.72E7
1.1E7
5.6E6
0.0E0
269.9986 S:7 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4600.0,5.00%,F,T)
100% A4.53E7
1.1E7
5.4E6
0.0E0
242.9856 S:7 F:2 SMO(1,3)
100%
17:18
17:47
18:05
18:31
18:49
19:14
19:45
20:09
7.8E5
3.9E5
0.0E0
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

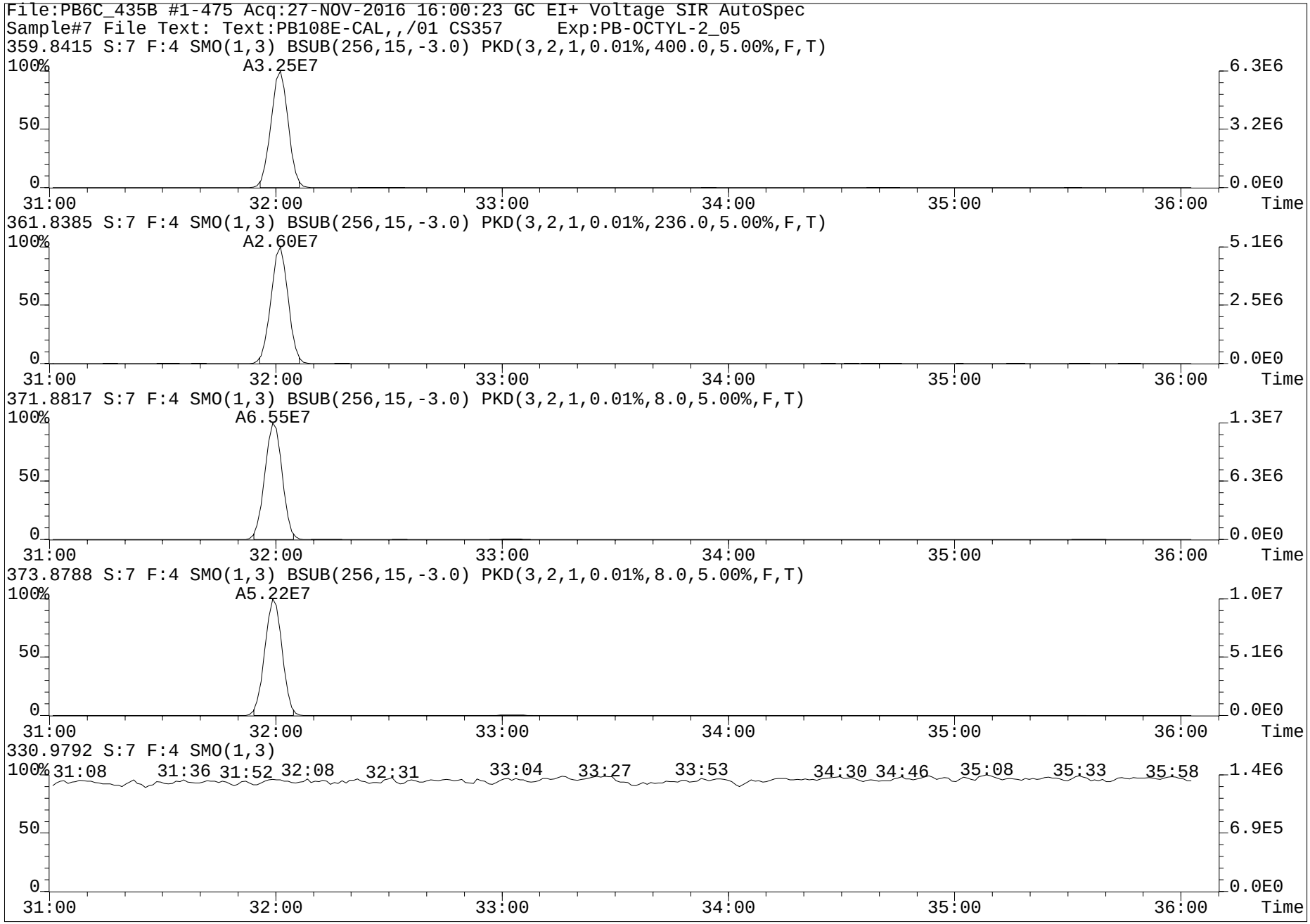

File:PB6C_435B #1-516 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
255.9613 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1456.0,5.00%,F,T)
A3.78E7
A3.71E7
257.9584 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,688.0,5.00%,F,T)
A3.62E7
A3.56E7
268.0016 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11380.0,5.00%,F,T)
A7.69E7
A7.30E7
269.9986 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6068.0,5.00%,F,T)
A7.19E7
A6.97E7
280.9825 S:7 F:3 SMO(1,3)
20:15 20:47 21:15 21:43 22:09 22:39 23:22 23:50 24:27 25:10 25:49 26:16 26:49 27:14
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
8.6E6 4.3E6 0.0E0
8.2E6 4.1E6 0.0E0
1.7E7 8.4E6 0.0E0
1.6E7 7.9E6 0.0E0
2.3E6 1.2E6 0.0E0

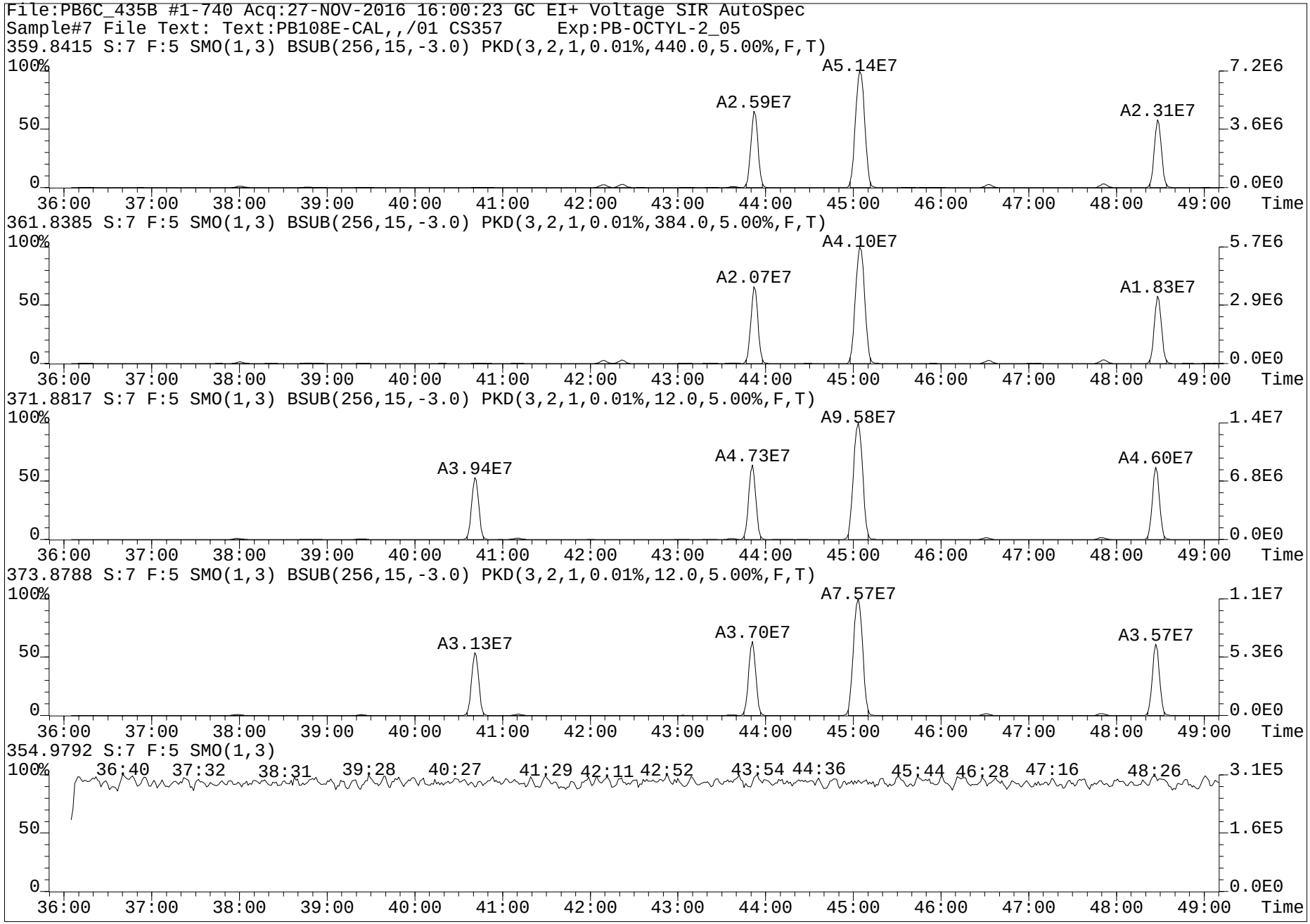

File:PB6C_435B #1-516 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
289.9224 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,480.0,5.00%,F,T)
100% A2.79E7
6.5E6
3.3E6
0.0E0
291.9199 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,708.0,5.00%,F,T)
100% A3.51E7
8.2E6
4.1E6
0.0E0
301.9626 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1276.0,5.00%,F,T)
100% A5.34E7
A3.86E7
1.2E7
6.1E6
0.0E0
303.9597 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1348.0,5.00%,F,T)
100% A6.74E7
A4.94E7
1.5E7
7.7E6
0.0E0
280.9825 S:7 F:3 SMO(1,3)
100%
20:15 20:47 21:15 21:43 22:09 22:39 23:22 23:50 24:27 25:10 25:49 26:16 26:49 27:14
2.3E6
1.2E6
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

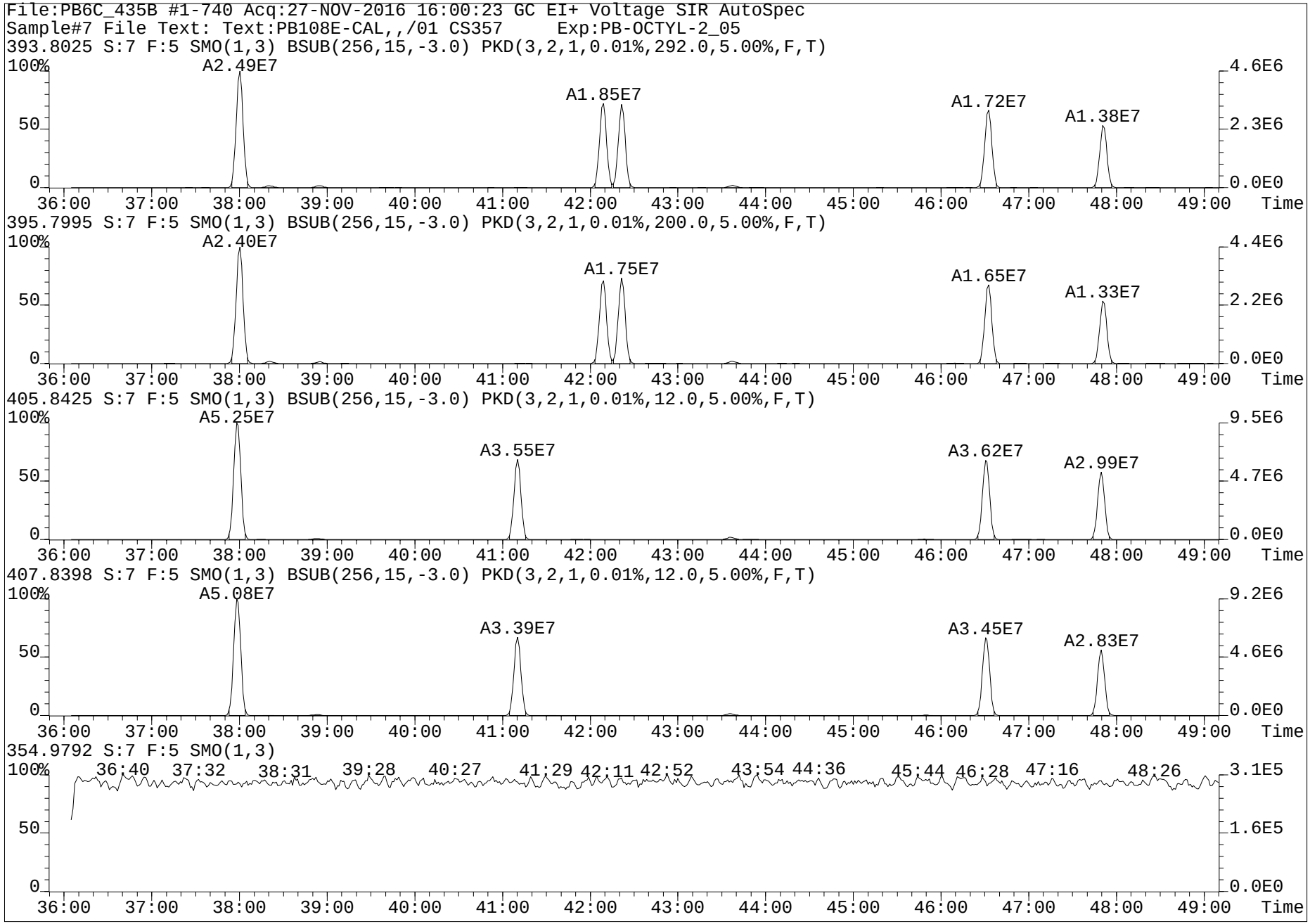

File:PB6C_435B #1-475 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
289.9224 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,460.0,5.00%,F,T)
A2.59E7 A2.64E7
291.9194 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,608.0,5.00%,F,T)
A3.32E7 A3.36E7
301.9626 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1956.0,5.00%,F,T)
A5.10E7 A5.35E7
303.9597 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1036.0,5.00%,F,T)
A6.51E7 A6.93E7
330.9792 S:7 F:4 SMO(1,3)
28:21 29:03 29:36 30:19 30:56 31:22 31:59 32:31 33:27 33:53 34:30 35:08 35:58
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
5.0E6 2.5E6 0.0E0
6.4E6 3.2E6 0.0E0
1.0E7 5.0E6 0.0E0
1.3E7 6.6E6 0.0E0
1.4E6 6.9E5 0.0E0

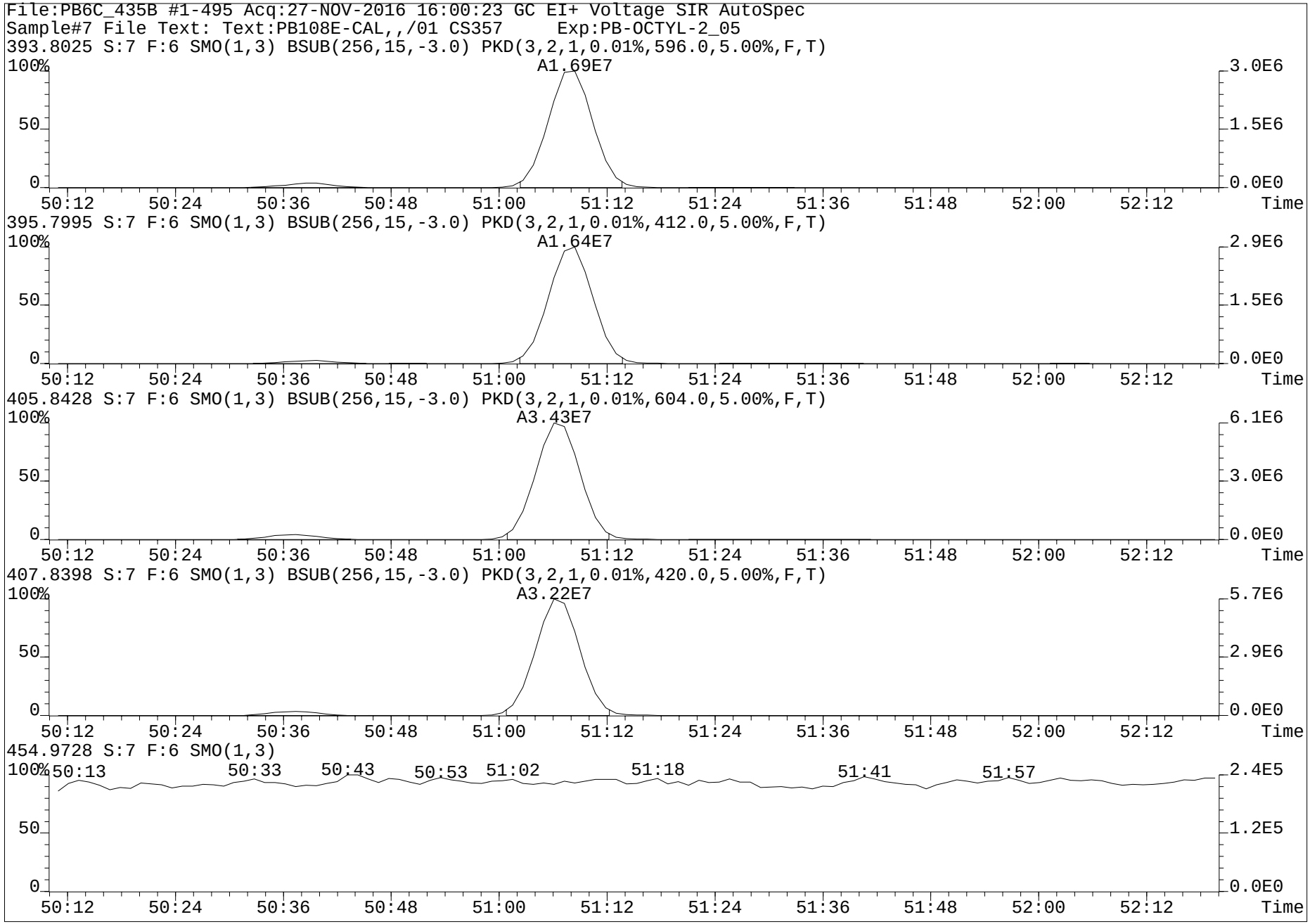

File:PB6C_435B #1-516 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
325.8804 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,316.0,5.00%,F,T)
A3.55E7
7.5E6
3.7E6
0.0E0
327.8775 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,232.0,5.00%,F,T)
A2.25E7
4.7E6
2.4E6
0.0E0
337.9207 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A6.67E7
1.4E7
6.8E6
0.0E0
339.9178 S:7 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A4.29E7
8.8E6
4.4E6
0.0E0
280.9825 S:7 F:3 SMO(1,3)
20:15 20:47 21:15 21:43 22:09 22:39 23:22 23:50 24:27 25:10 25:49 26:16 26:49 27:14
2.3E6
1.2E6
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

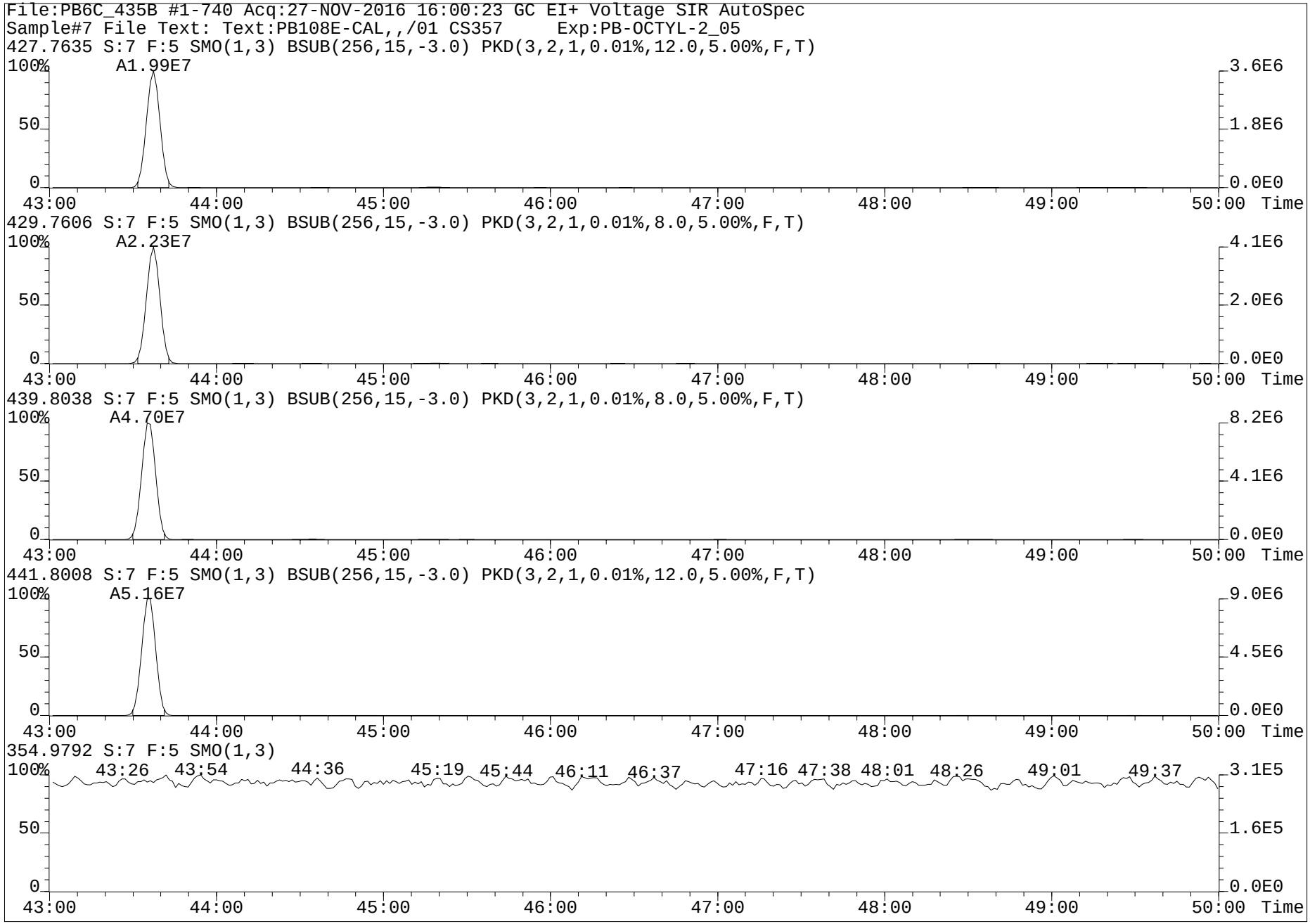

File:PB6C_435B #1-740 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
325.8804 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1340.0,5.00%,F,T)
A3.04E7
A3.00E7
A3.03E7
A2.78E7
327.8775 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1044.0,5.00%,F,T)
A1.95E7
A1.91E7
A1.94E7
A1.77E7
337.9207 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3256.0,5.00%,F,T)
A6.11E7
A5.67E7
A5.95E7
A5.37E7
339.9178 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1636.0,5.00%,F,T)
A3.84E7
A3.57E7
A3.76E7
A3.41E7
354.9792 S:7 F:5 SMO(1,3)
36:40
37:07
37:32
38:10
38:52
39:28
39:59
40:27
40:53
41:29
42:05
42:48
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
5.7E6
2.8E6
0.0E0
3.6E6
1.8E6
1.1E7
5.7E6
7.1E6
3.5E6
3.1E5
1.6E5

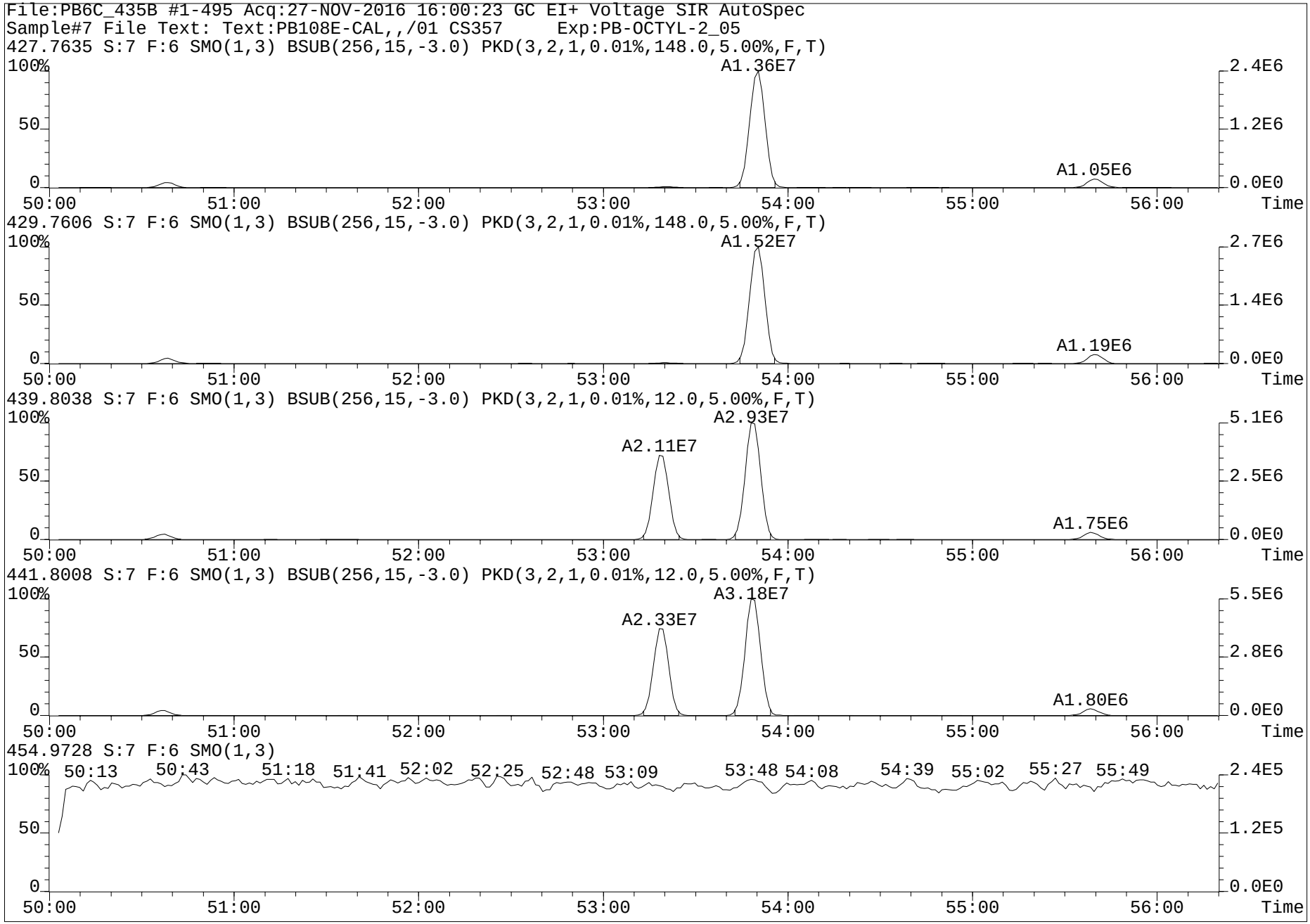

File:PB6C_435B #1-475 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
359.8415 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,400.0,5.00%,F,T)
A3.25E7
361.8385 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,236.0,5.00%,F,T)
A2.60E7
371.8817 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A6.55E7
373.8788 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.22E7
330.9792 S:7 F:4 SMO(1,3)
31:08 31:36 31:52 32:08 32:31 33:04 33:27 33:53 34:30 34:46 35:08 35:33 35:58
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time
6.3E6 3.2E6 0.0E0
5.1E6 2.5E6 0.0E0
1.3E7 6.3E6 0.0E0
1.0E7 5.1E6 0.0E0
1.4E6 6.9E5 0.0E0

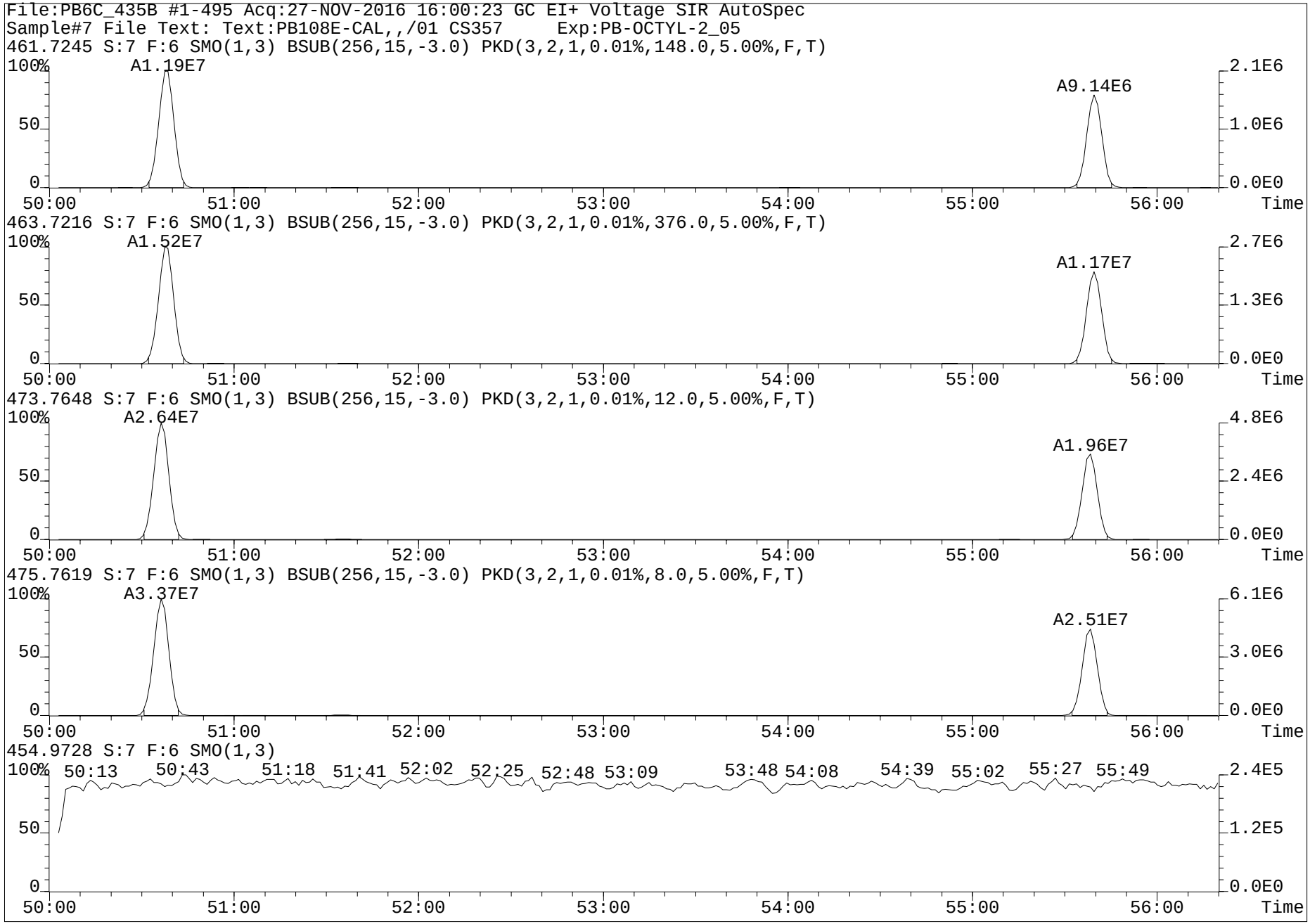

File:PB6C_435B #1-740 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
359.8415 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,440.0,5.00%,F,T)
A2.59E7
A5.14E7
A2.31E7
361.8385 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,384.0,5.00%,F,T)
A2.07E7
A4.10E7
A1.83E7
371.8817 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.94E7
A4.73E7
A9.58E7
A4.60E7
373.8788 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.13E7
A3.70E7
A7.57E7
A3.57E7
354.9792 S:7 F:5 SMO(1,3)
36:40 37:32 38:31 39:28 40:27 41:29 42:11 42:52 43:54 44:36 45:44 46:28 47:16 48:26
100%
50
0
7.2E6
3.6E6
0.0E0
5.7E6
2.9E6
1.4E7
6.8E6
1.1E7
5.3E6
3.1E5
1.6E5
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

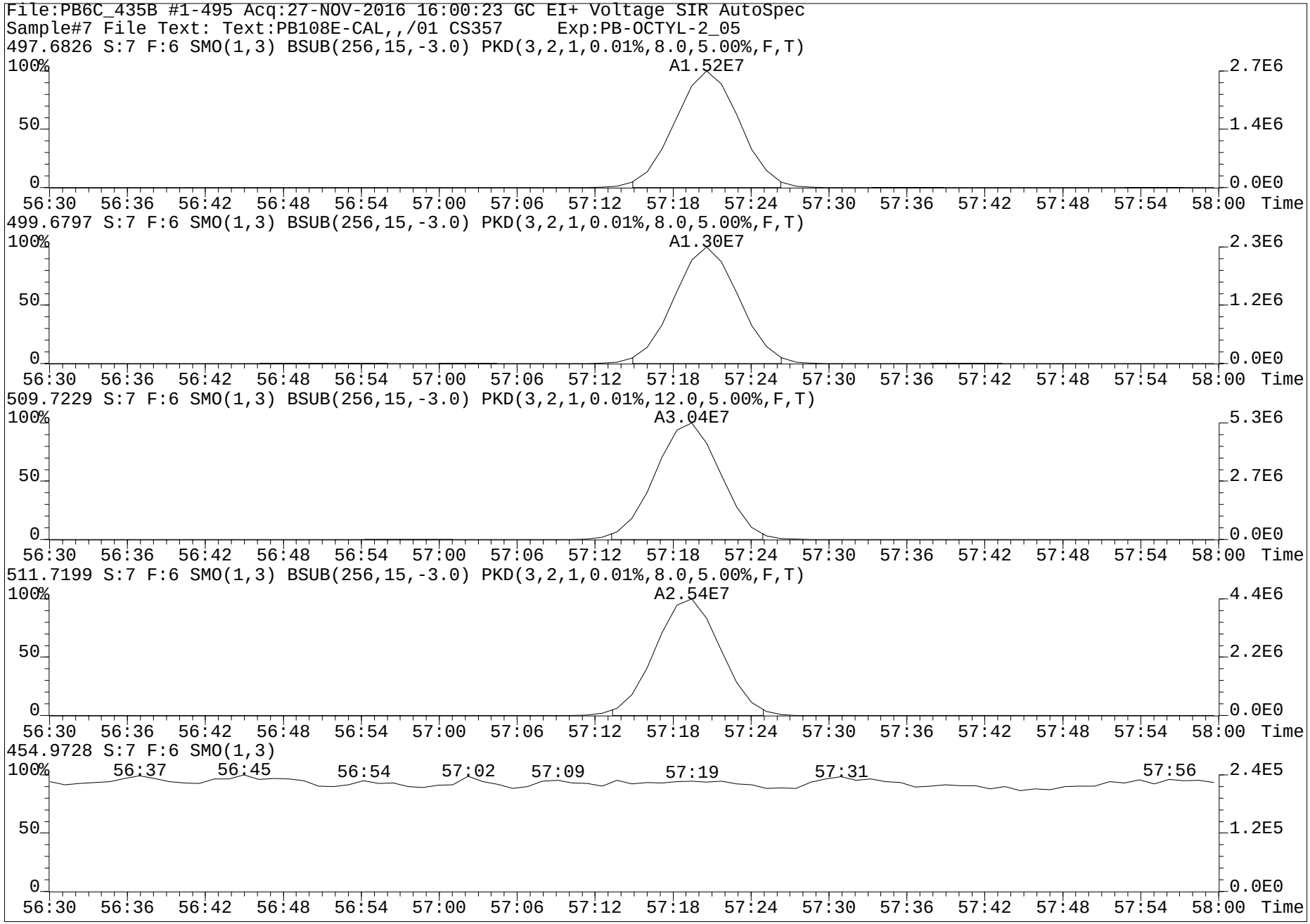

File:PB6C_435B #1-740 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
393.8025 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A2.49E7
A1.85E7
A1.72E7
A1.38E7
395.7995 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,200.0,5.00%,F,T)
A2.40E7
A1.75E7
A1.65E7
A1.33E7
405.8425 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.25E7
A3.55E7
A3.62E7
A2.99E7
407.8398 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.08E7
A3.39E7
A3.45E7
A2.83E7
354.9792 S:7 F:5 SMO(1,3)
36:40 37:32 38:31 39:28 40:27 41:29 42:11 42:52 43:54 44:36 45:44 46:28 47:16 48:26
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
4.6E6
2.3E6
0.0E0
4.4E6
2.2E6
9.5E6
4.7E6
9.2E6
4.6E6
3.1E5
1.6E5

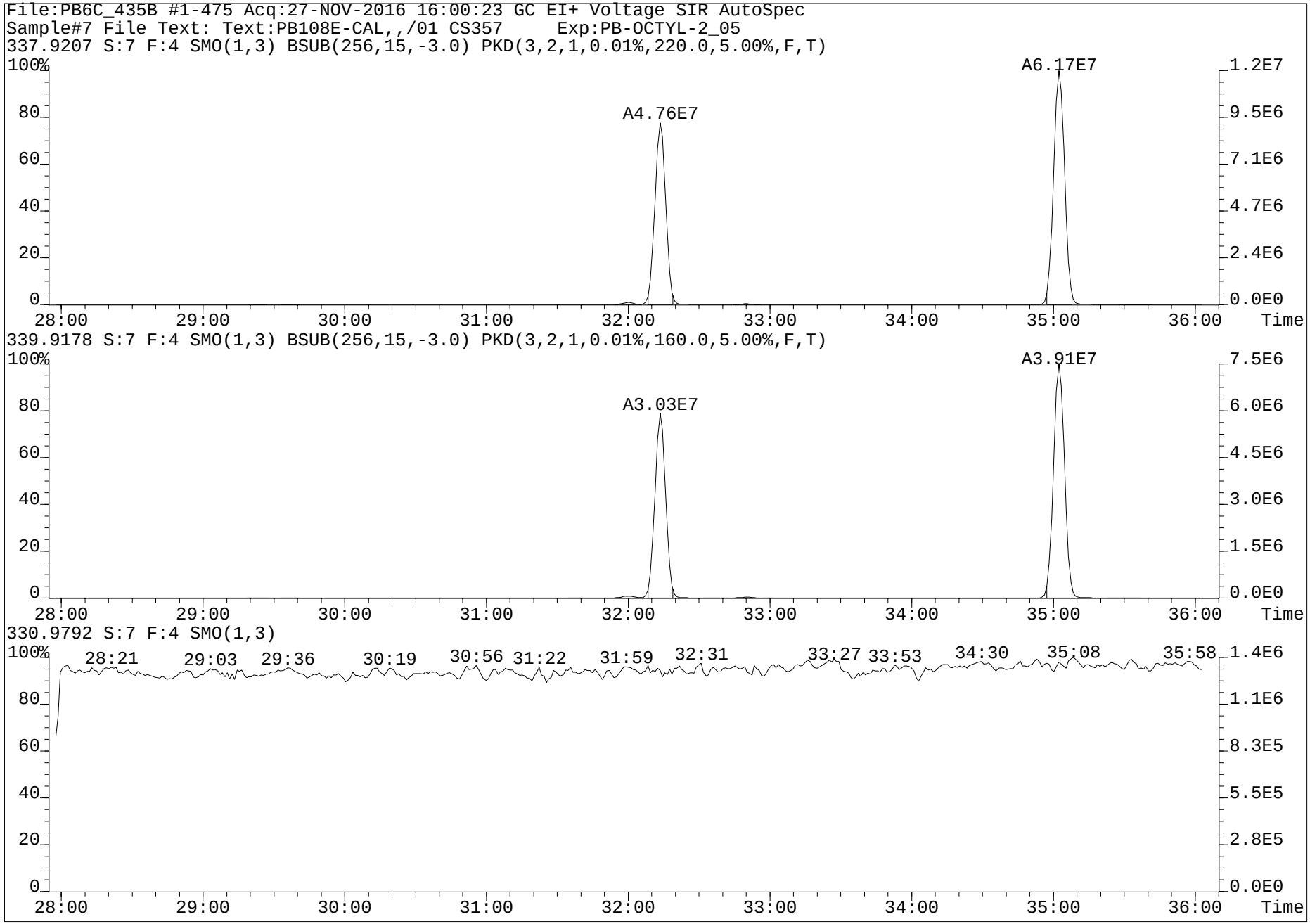

File:PB6C_435B #1-495 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
393.8025 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,596.0,5.00%,F,T)
A1.69E7
395.7995 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,412.0,5.00%,F,T)
A1.64E7
405.8428 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,604.0,5.00%,F,T)
A3.43E7
407.8398 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,420.0,5.00%,F,T)
A3.22E7
454.9728 S:7 F:6 SMO(1,3)
50:13
50:33
50:43
50:53
51:02
51:18
51:41
51:57
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
3.0E6
1.5E6
0.0E0
2.9E6
6.1E6
5.7E6
2.4E5
1.2E5


File:PB6C_435B #1-740 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
427.7635 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A1.99E7
3.6E6
1.8E6
0.0E0
429.7606 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A2.23E7
4.1E6
2.0E6
0.0E0
439.8038 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A4.70E7
8.2E6
4.1E6
0.0E0
441.8008 S:7 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A5.16E7
9.0E6
4.5E6
0.0E0
354.9792 S:7 F:5 SMO(1,3)
100%
43:26 43:54 44:36 45:19 45:44 46:11 46:37 47:16 47:38 48:01 48:26 49:01 49:37
3.1E5
1.6E5
0.0E0
50
0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-495 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
427.7635 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A1.36E7
A1.05E6
429.7606 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A1.52E7
A1.19E6
439.8038 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.93E7
A2.11E7
A1.75E6
441.8008 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.18E7
A2.33E7
A1.80E6
454.9728 S:7 F:6 SMO(1,3)
50:13 50:43 51:18 51:41 52:02 52:25 52:48 53:09 53:48 54:08 54:39 55:02 55:27 55:49
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
2.4E6 1.2E6 0.0E0
2.7E6 1.4E6 0.0E0
5.1E6 2.5E6 0.0E0
5.5E6 2.8E6 0.0E0
2.4E5 1.2E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
461.7245 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A1.19E7
A9.14E6
463.7216 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,376.0,5.00%,F,T)
A1.52E7
A1.17E7
473.7648 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.64E7
A1.96E7
475.7619 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.37E7
A2.51E7
454.9728 S:7 F:6 SMO(1,3)
50:13 50:43 51:18 51:41 52:02 52:25 52:48 53:09 53:48 54:08 54:39 55:02 55:27 55:49
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
2.1E6 1.0E6 0.0E0
2.7E6 1.3E6 0.0E0
4.8E6 2.4E6 0.0E0
6.1E6 3.0E6 0.0E0
2.4E5 1.2E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
497.6826 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.52E7
499.6797 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.30E7
509.7229 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.04E7
511.7199 S:7 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.54E7
454.9728 S:7 F:6 SMO(1,3)
56:37
56:45
56:54
57:02
57:09
57:19
57:31
57:56
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.7E6
1.4E6
0.0E0
2.3E6
1.2E6
5.3E6
2.7E6
4.4E6
2.2E6
2.4E5
1.2E5


File:PB6C_435B #1-475 Acq:27-NOV-2016 16:00:23 GC EI+ Voltage SIR AutoSpec
Sample#7 File Text: Text:PB108E-CAL,,/01 CS357 Exp:PB-OCTYL-2_05
337.9207 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A4.76E7
A6.17E7
339.9178 S:7 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A3.03E7
A3.91E7
330.9792 S:7 F:4 SMO(1,3)
28:21
29:03
29:36
30:19
30:56
31:22
31:59
32:31
33:27
33:53
34:30
35:08
35:58
Time

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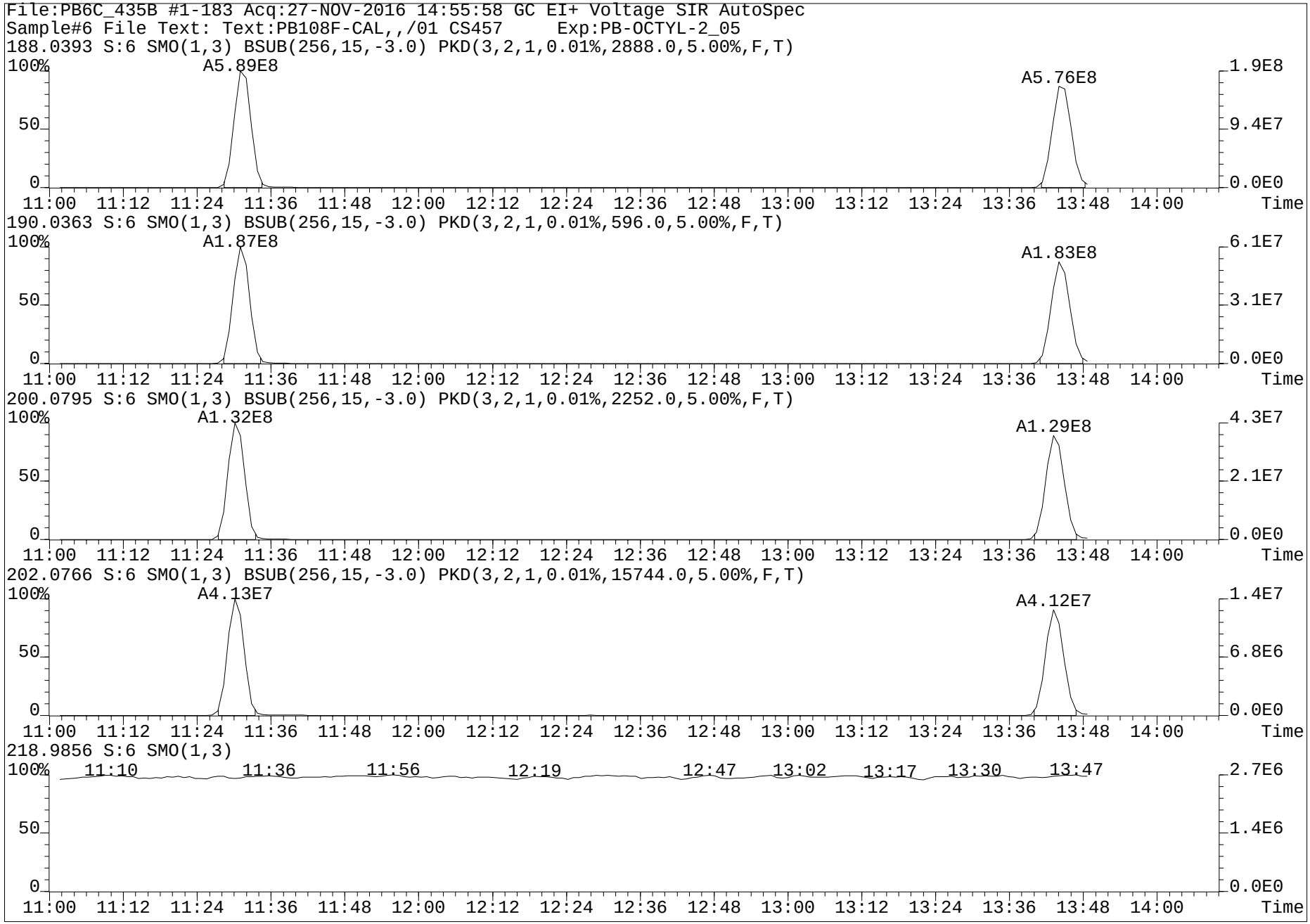


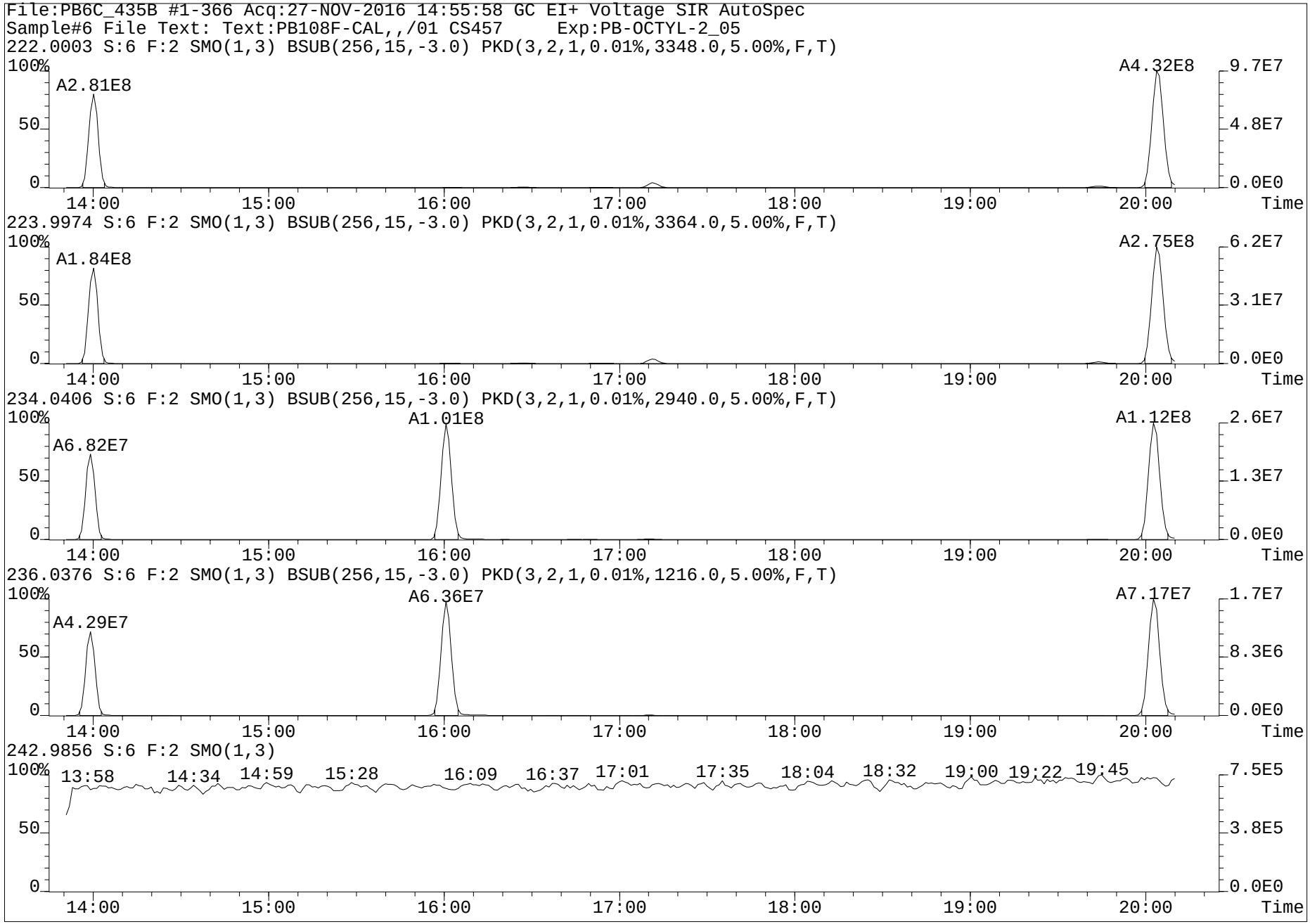
Run #5 Filename PB6C_435B S: 6 I: 1 Acquired: 27-NOV-16 14:55:58 Processed: 28-NOV-16 14:50:12
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: PB9C_274A-CAL Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108F-CAL,,/01 CS457 Comments: 1,,1.0uL CS-4 F1: 400.00 F2: 1.00

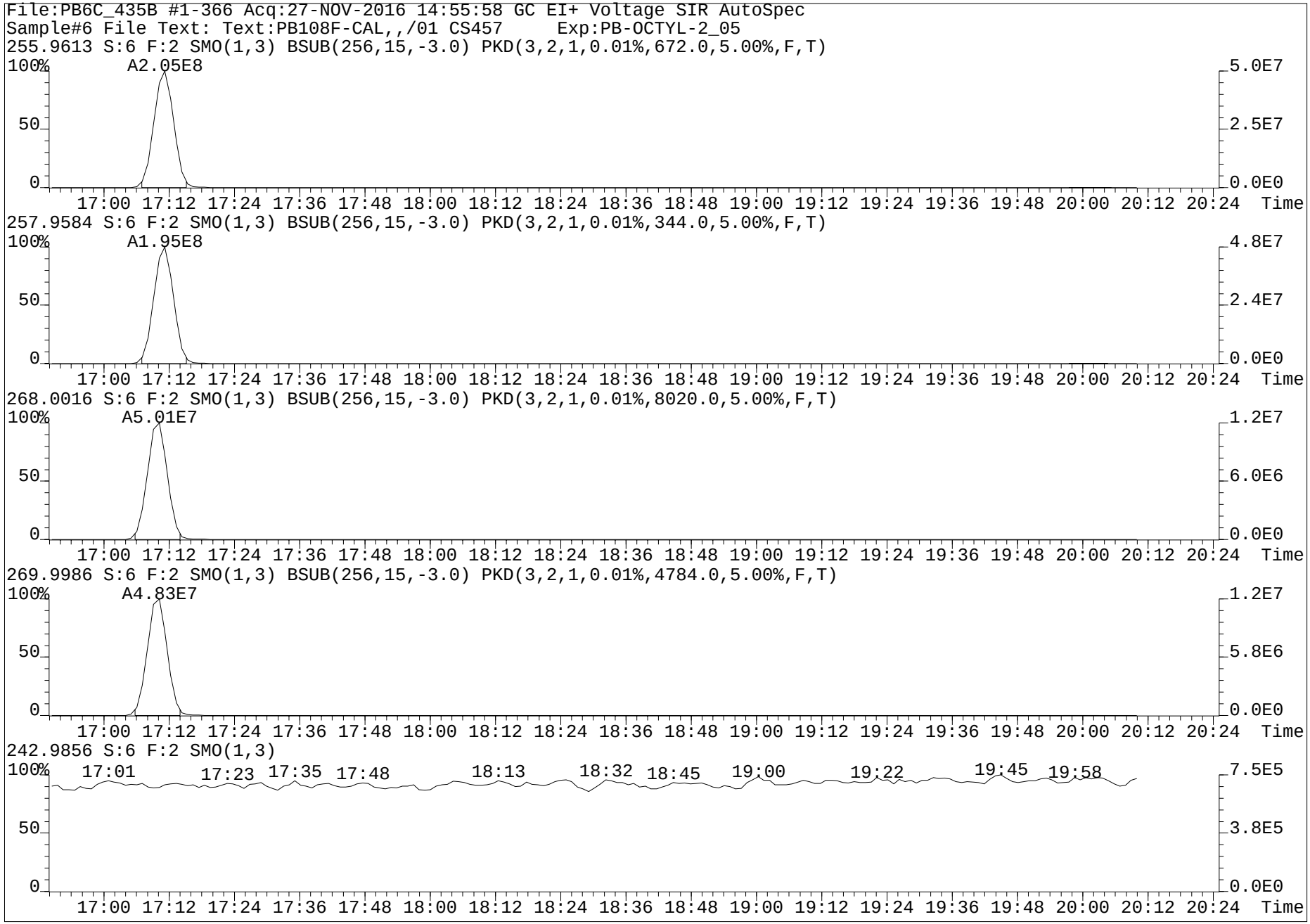
| | Typ | Name | Amount | Resp | RA | RT | s/n | RF | RRF | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 400.00 | 7.76e+08 | 3.15 y | 11:31 | 6.5e+04 | - | 1.1223 | y n |
| 2 | Unk | CL1-PCB-3 | 400.00 | 7.59e+08 | 3.15 y | 13:45 | 5.7e+04 | - | 1.1133 | y n |
| 3 | Unk | CL2-PCB-4 | 400.00 | 4.65e+08 | 1.53 y | 14:00 | 2.3e+04 | - | 1.0468 | y n |
| 4 | Unk | CL2-PCB-15 | 400.00 | 7.07e+08 | 1.57 y | 20:04 | 2.9e+04 | - | 0.9628 | y n |
| 5 | Unk | CL3-PCB-19 | 400.00 | 3.99e+08 | 1.05 y | 17:11 | 7.5e+04 | - | 1.0143 | y n |
| 6 | Unk | CL3-PCB-37 | 400.00 | 6.85e+08 | 1.04 y | 27:22 | 4.1e+04 | - | 1.0492 | y n |
| 7 | Unk | CL4-PCB-54 | 400.00 | 5.44e+08 | 0.80 y | 20:22 | 3.1e+04 | - | 1.0646 | y n |
| 8 | Unk | CL4-PCB-81 | 400.00 | 5.63e+08 | 0.79 y | 34:26 | 4.5e+04 | - | 1.0643 | y n |
| 9 | Unk | CL4-PCB-77 | 400.00 | 5.77e+08 | 0.79 y | 35:01 | 4.6e+04 | - | 1.0559 | y n |
| 10 | Unk | CL5-PCB-104 | 400.00 | 5.11e+08 | 1.54 y | 26:05 | 1.3e+05 | - | 1.0552 | y n |
| 11 | Unk | CL5-PCB-123 | 400.00 | 4.44e+08 | 1.55 y | 37:07 | 8.4e+03 | - | 1.0002 | y n |
| 12 | Unk | CL5-PCB-118 | 400.00 | 4.64e+08 | 1.55 y | 37:28 | 8.7e+03 | - | 1.0495 | y n |
| 13 | Unk | CL5-PCB-114 | 400.00 | 4.69e+08 | 1.55 y | 38:01 | 8.8e+03 | - | 1.0962 | y n |
| 14 | Unk | CL5-PCB-105 | 400.00 | 4.63e+08 | 1.55 y | 38:41 | 8.7e+03 | - | 1.0462 | y n |
| 15 | Unk | CL5-PCB-126 | 400.00 | 4.30e+08 | 1.56 y | 41:55 | 7.8e+03 | - | 1.0562 | y n |
| 16 | Unk | CL6-PCB-155 | 400.00 | 5.16e+08 | 1.24 y | 32:01 | 1.4e+05 | - | 1.0276 | y n |
| 17 | Unk | CL6-PCB-167 | 400.00 | 4.29e+08 | 1.25 y | 43:52 | 4.4e+04 | - | 1.1343 | y n |
| 18 | Unk | CL6-PCB-156/157 | 800.00 | 8.76e+08 | 1.25 y | 45:05 | 6.9e+04 | - | 1.1143 | y n |
| 19 | Unk | CL6-PCB-169 | 400.00 | 4.03e+08 | 1.25 y | 48:28 | 4.1e+04 | - | 1.0608 | y n |
| 20 | Unk | CL7-PCB-188 | 400.00 | 4.48e+08 | 1.03 y | 38:00 | 1.2e+05 | - | 0.9743 | y n |
| 21 | Unk | CL7-PCB-189 | 400.00 | 3.16e+08 | 1.03 y | 51:08 | 1.4e+04 | - | 1.0252 | y n |
| 22 | Unk | CL8-PCB-202 | 400.00 | 3.77e+08 | 0.89 y | 43:38 | 4.0e+06 | - | 0.8801 | y n |
| 23 | Unk | CL8-PCB-205 | 400.00 | 2.79e+08 | 0.90 y | 53:50 | 3.8e+04 | - | 0.9687 | y n |
| 24 | Unk | CL9-PCB-208 | 400.00 | 2.56e+08 | 0.78 y | 50:38 | 6.5e+04 | - | 0.9371 | y n |
| 25 | Unk | CL9-PCB-206 | 400.00 | 2.03e+08 | 0.79 y | 55:40 | 5.3e+04 | - | 0.9742 | y n |
| 26 | Unk | CL10-PCB-209 | 400.00 | 2.71e+08 | 1.17 y | 57:21 | 3.2e+06 | - | 1.0479 | y n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.73e+08 | 3.19 y | 11:30 | 1.9e+04 | - | 1.0517 | y n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.71e+08 | 3.14 y | 13:43 | 1.7e+04 | - | 1.0376 | y n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 1.11e+08 | 1.59 y | 13:59 | 6.4e+03 | - | 0.6759 | y n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.84e+08 | 1.56 y | 20:03 | 8.8e+03 | - | 1.1166 | y n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 9.84e+07 | 1.04 y | 17:10 | 1.5e+03 | - | 0.5990 | y n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.63e+08 | 1.06 y | 27:21 | 1.5e+03 | - | 1.7381 | y n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.28e+08 | 0.80 y | 20:21 | 6.8e+03 | - | 1.3607 | y n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.32e+08 | 0.77 y | 34:24 | 7.9e+03 | - | 1.4084 | y n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.37e+08 | 0.77 y | 34:59 | 8.3e+03 | - | 1.4546 | y n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.21e+08 | 1.57 y | 26:04 | 1.3e+06 | - | 1.4628 | y n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 1.11e+08 | 1.58 y | 37:05 | 4.1e+03 | - | 1.3399 | y n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 1.10e+08 | 1.58 y | 37:26 | 4.2e+03 | - | 1.3345 | y n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 1.07e+08 | 1.61 y | 37:59 | 4.2e+03 | - | 1.2930 | y n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 1.11e+08 | 1.58 y | 38:40 | 4.1e+03 | - | 1.3366 | y n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 1.02e+08 | 1.58 y | 41:54 | 3.8e+03 | - | 1.2295 | y n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.26e+08 | 1.25 y | 31:59 | 1.1e+06 | - | 1.6435 | y n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 9.47e+07 | 1.26 y | 43:51 | 1.2e+06 | - | 1.2389 | y n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.97e+08 | 1.28 y | 45:04 | 1.9e+06 | - | 1.2865 | y n |

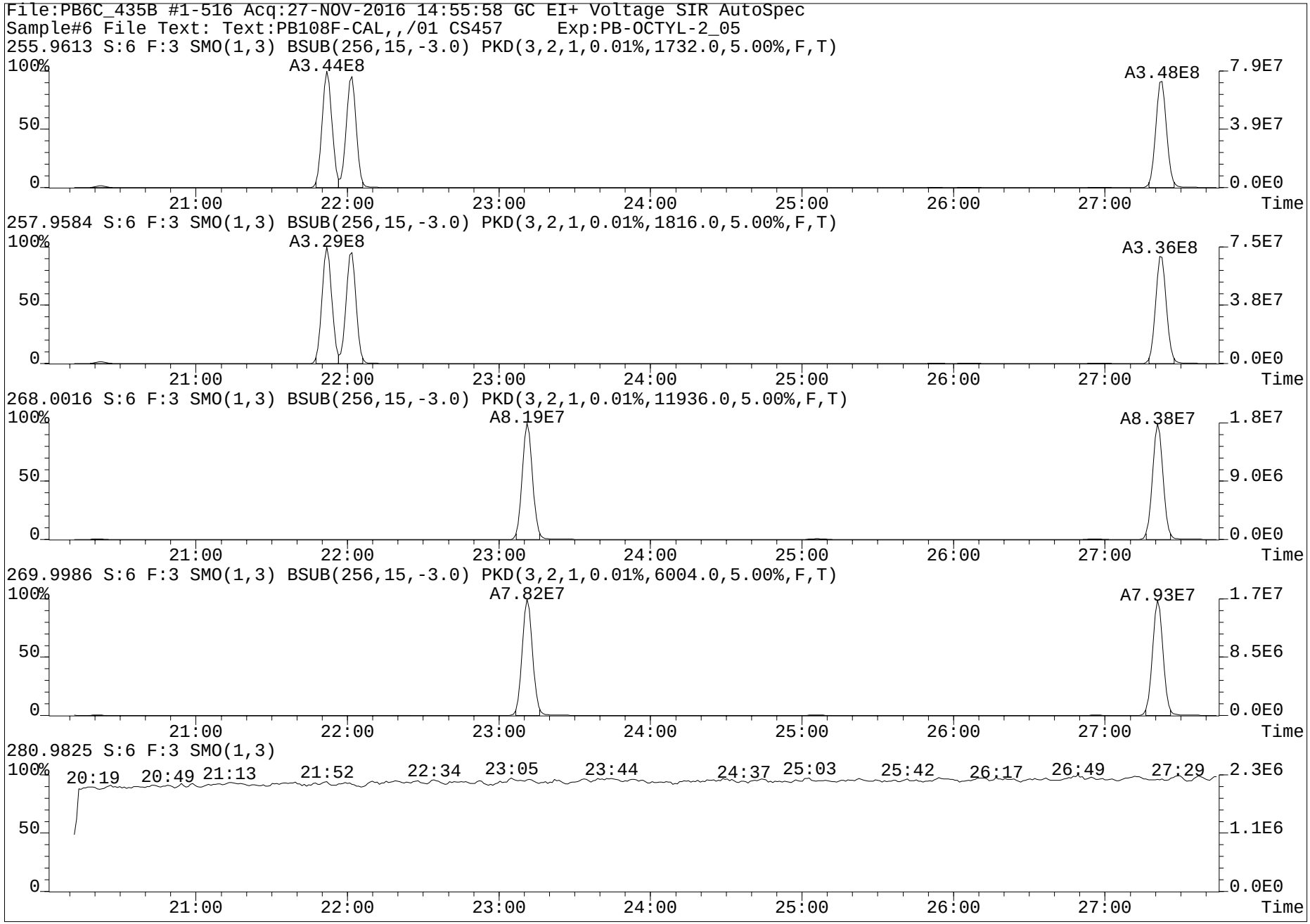
Sw:PA 29-Nov-16
PV'd by PL 29Nov16

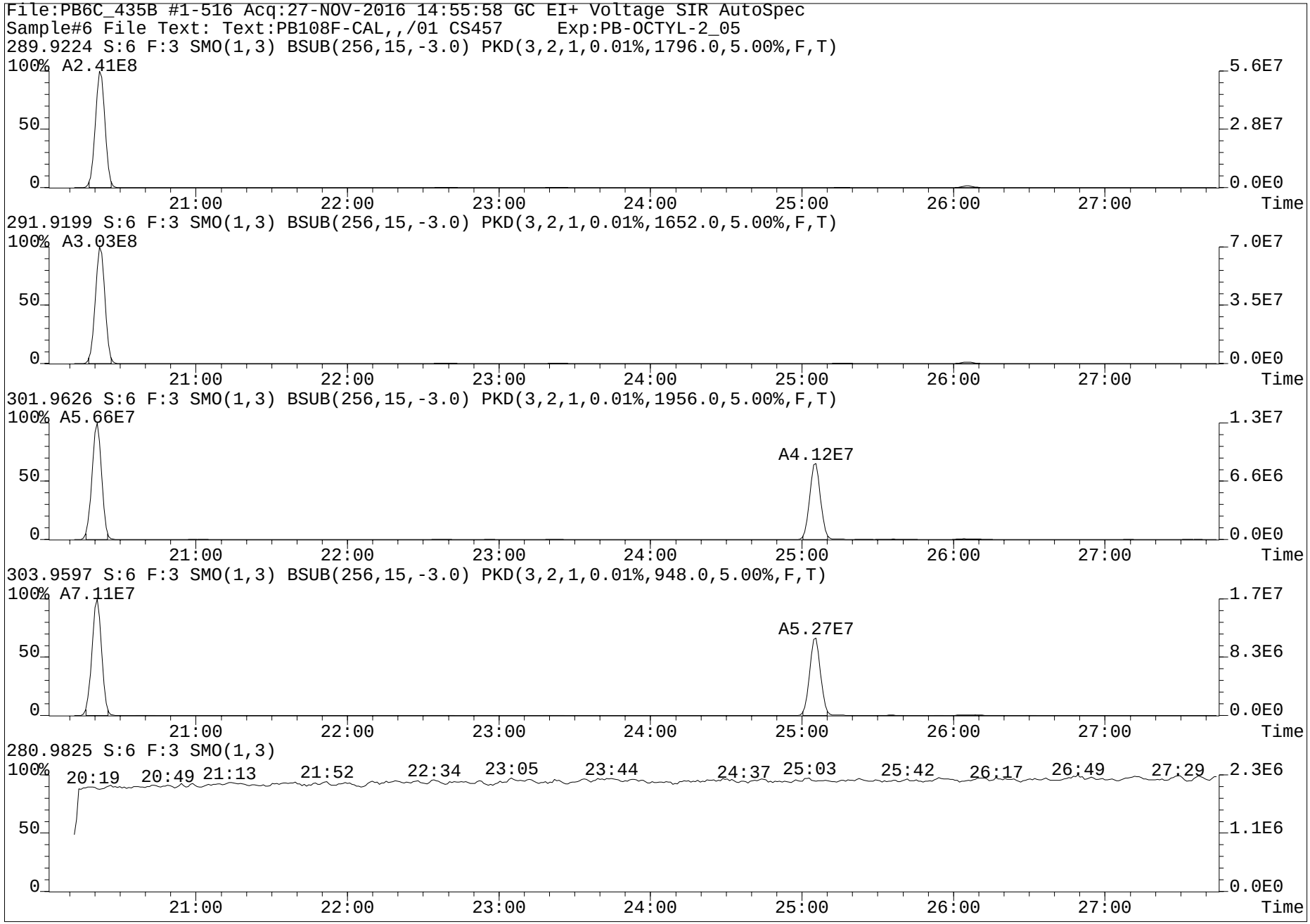
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 9.49e+07 | 1.27 y | 48:27 | 1.2e+06 | - | 1.2422 | y n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 1.15e+08 | 1.05 y | 37:59 | 8.9e+05 | - | 2.3485 | y n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 7.71e+07 | 1.07 y | 51:06 | 9.5e+03 | - | 1.5745 | y n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 1.07e+08 | 0.90 y | 43:36 | 1.1e+06 | - | 2.1900 | y n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 7.19e+07 | 0.92 y | 53:49 | 7.6e+05 | - | 1.4695 | y n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 6.84e+07 | 0.79 y | 50:37 | 4.5e+05 | - | 1.3972 | y n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 5.21e+07 | 0.80 y | 55:38 | 3.5e+05 | - | 1.0636 | y n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 6.47e+07 | 1.16 y | 57:20 | 5.1e+05 | - | 1.3224 | y n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.64e+08 | 1.58 y | 16:01 | 8.7e+03 | 1.64e+06 | - | n n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 9.38e+07 | 0.78 y | 25:05 | 4.4e+03 | 9.38e+05 | - | n n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 8.28e+07 | 1.59 y | 32:14 | 4.8e+04 | 8.28e+05 | - | n n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 7.64e+07 | 1.27 y | 40:41 | 9.6e+05 | 7.64e+05 | - | n n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 4.89e+07 | 0.91 y | 53:18 | 5.2e+05 | 4.89e+05 | - | n n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.60e+08 | 1.05 y | 23:11 | 1.5e+03 | - | 1.7052 | y n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 1.11e+08 | 1.59 y | 35:03 | 6.5e+04 | - | 1.3428 | y n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 7.40e+07 | 1.04 y | 41:11 | 5.8e+05 | - | 0.9687 | y n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.28e+08 | 0.80 y | 20:21 | 6.8e+03 | - | 1.3607 | y n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 1.15e+08 | 1.05 y | 37:59 | 8.9e+05 | - | 2.3485 | y n |
| 63 | LM | CL1-LOCK | 0.00 | - | | - | - | - | - | n n |
| 64 | LM | CL2-LOCK | 0.00 | - | | - | - | - | - | n n |
| 65 | LM | CL3-LOCK | 0.00 | - | | - | - | - | - | n n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 68 | LM | CL5-LOCK | 0.00 | - | | - | - | - | - | n n |
| 69 | LM | CL6-LOCK | 0.00 | - | | - | - | - | - | n n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | - | - | - | - | n n |
| 71 | LM | CL7-LOCK | 0.00 | - | | - | - | - | - | n n |
| 72 | LM | CL8-LOCK | 0.00 | - | | - | - | - | - | n n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | - | - | - | - | n n |
| 74 | LM | CL10-LOCK | 0.00 | - | | - | - | - | - | n n |

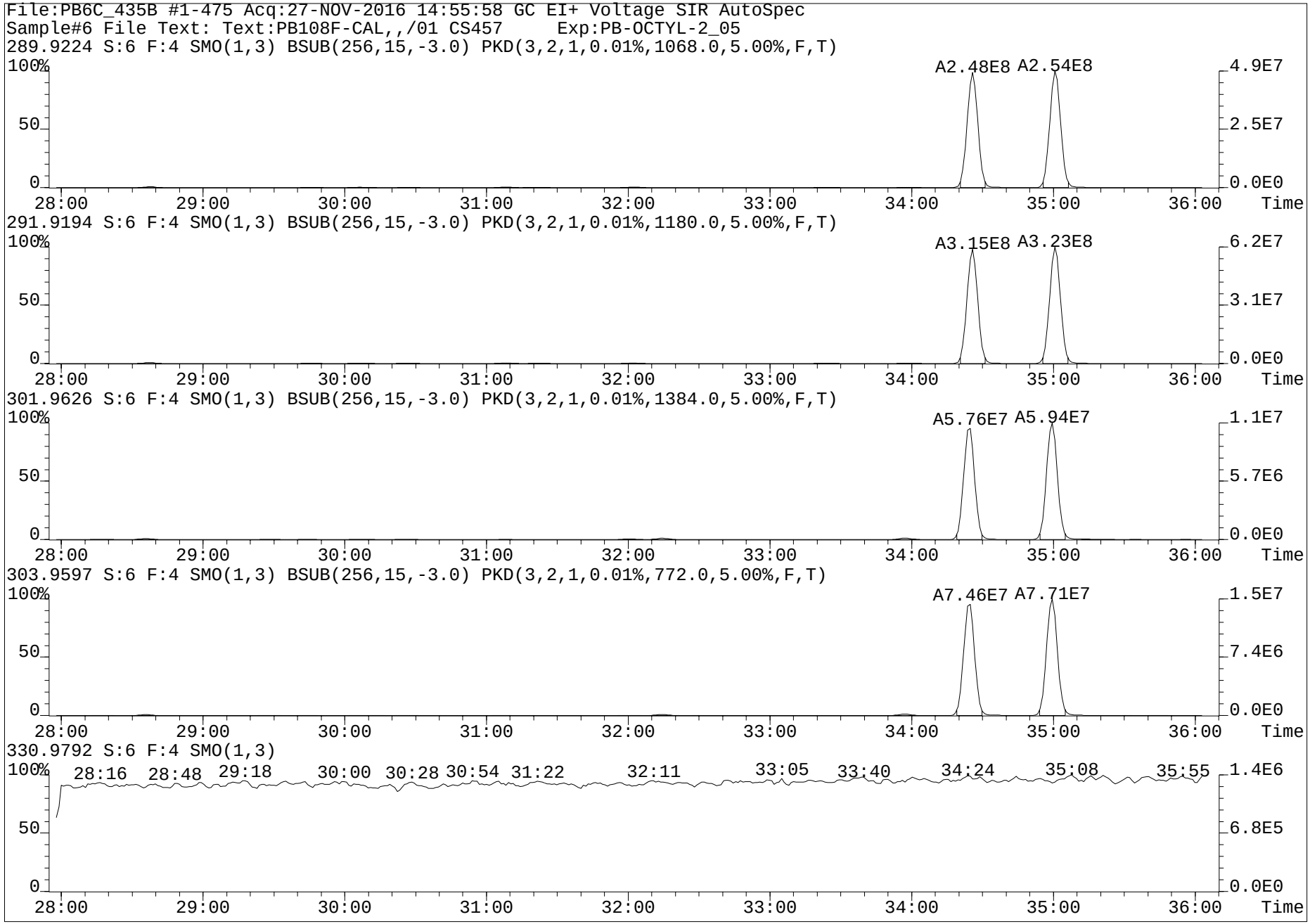

File:PB6C_435B #1-183 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
188.0393 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2888.0,5.00%,F,T)
A5.89E8
A5.76E8
190.0363 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,596.0,5.00%,F,T)
A1.87E8
A1.83E8
200.0795 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2252.0,5.00%,F,T)
A1.32E8
A1.29E8
202.0766 S:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,15744.0,5.00%,F,T)
A4.13E7
A4.12E7
218.9856 S:6 SMO(1,3)
11:10 11:36 11:56 12:19 12:47 13:02 13:17 13:30 13:47
100%
50
0
1.9E8
9.4E7
0.0E0
6.1E7
3.1E7
4.3E7
2.1E7
1.4E7
6.8E6
2.7E6
1.4E6
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

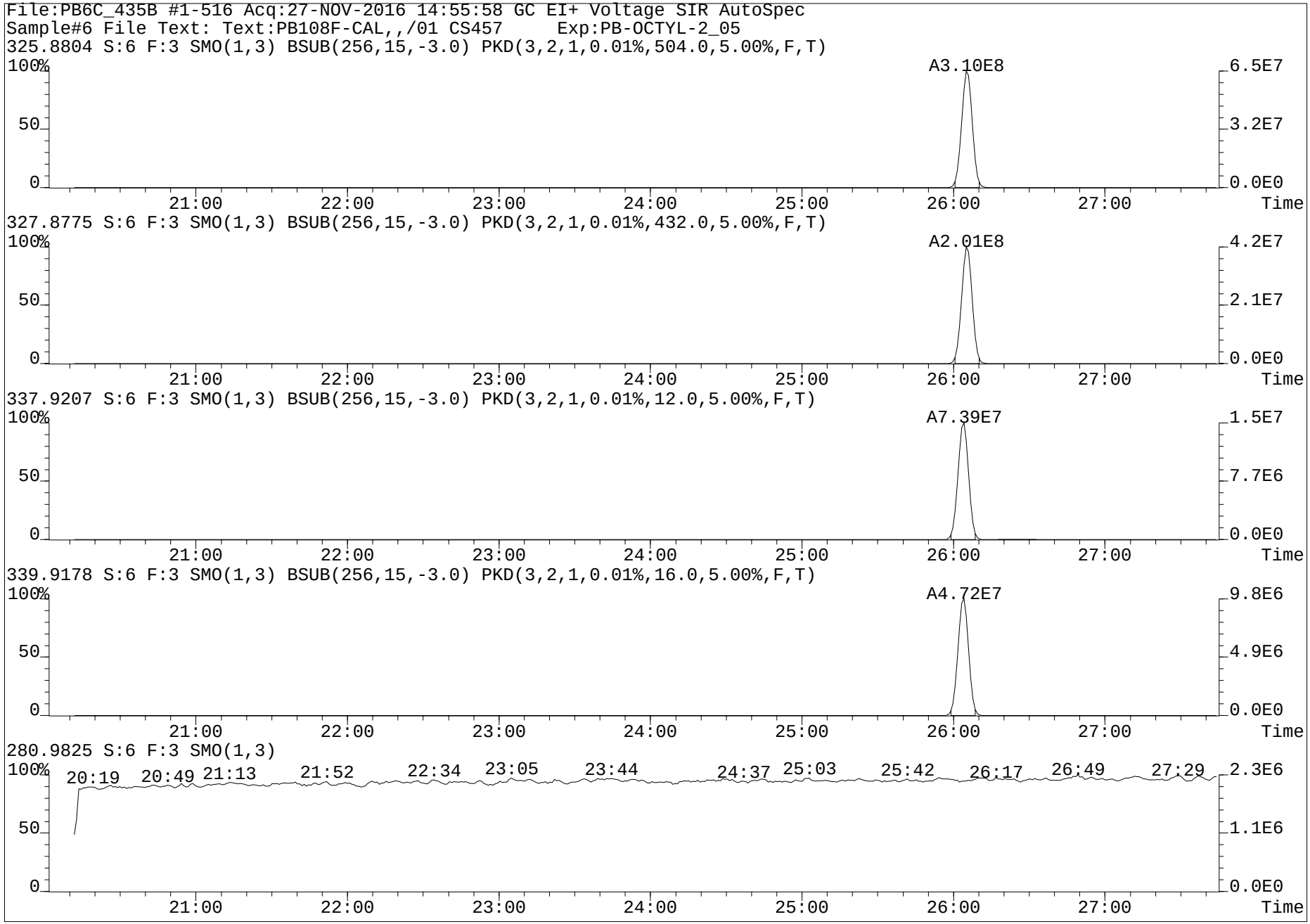

File:PB6C_435B #1-366 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
222.0003 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3348.0,5.00%,F,T)
A2.81E8
A4.32E8
223.9974 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3364.0,5.00%,F,T)
A1.84E8
A2.75E8
234.0406 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2940.0,5.00%,F,T)
A6.82E7
A1.01E8
A1.12E8
236.0376 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1216.0,5.00%,F,T)
A4.29E7
A6.36E7
A7.17E7
242.9856 S:6 F:2 SMO(1,3)
13:58 14:34 14:59 15:28 16:09 16:37 17:01 17:35 18:04 18:32 19:00 19:22 19:45
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
9.7E7 4.8E7 0.0E0
6.2E7 3.1E7 0.0E0
2.6E7 1.3E7 0.0E0
1.7E7 8.3E6 0.0E0
7.5E5 3.8E5 0.0E0

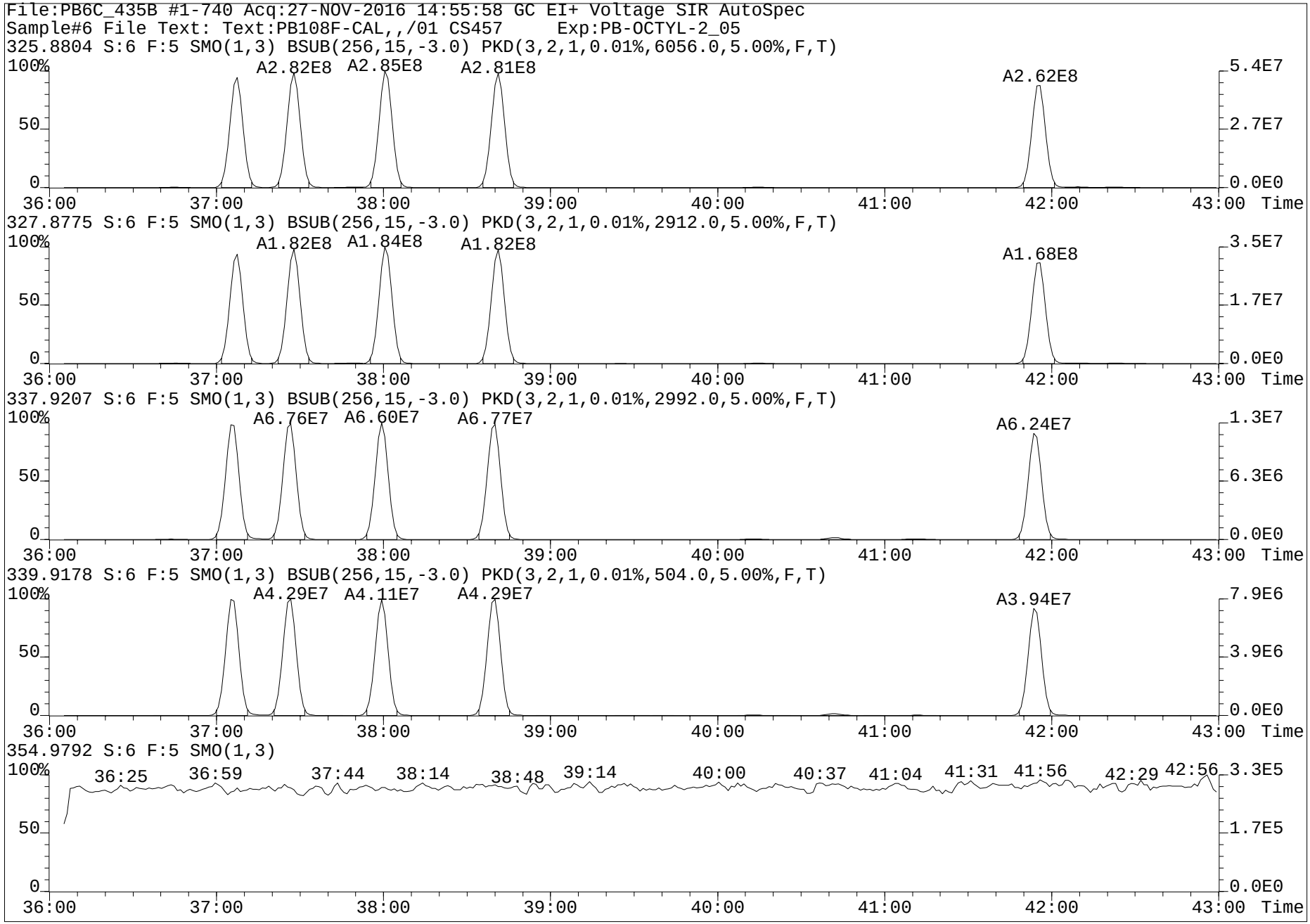

File:PB6C_435B #1-366 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
255.9613 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,672.0,5.00%,F,T)
A2.05E8
257.9584 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,344.0,5.00%,F,T)
A1.95E8
268.0016 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8020.0,5.00%,F,T)
A5.01E7
269.9986 S:6 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4784.0,5.00%,F,T)
A4.83E7
242.9856 S:6 F:2 SMO(1,3)
17:01 17:23 17:35 17:48 18:13 18:32 18:45 19:00 19:22 19:45 19:58
100%
50
0
5.0E7
2.5E7
0.0E0
4.8E7
2.4E7
1.2E7
6.0E6
5.8E6
7.5E5
3.8E5
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

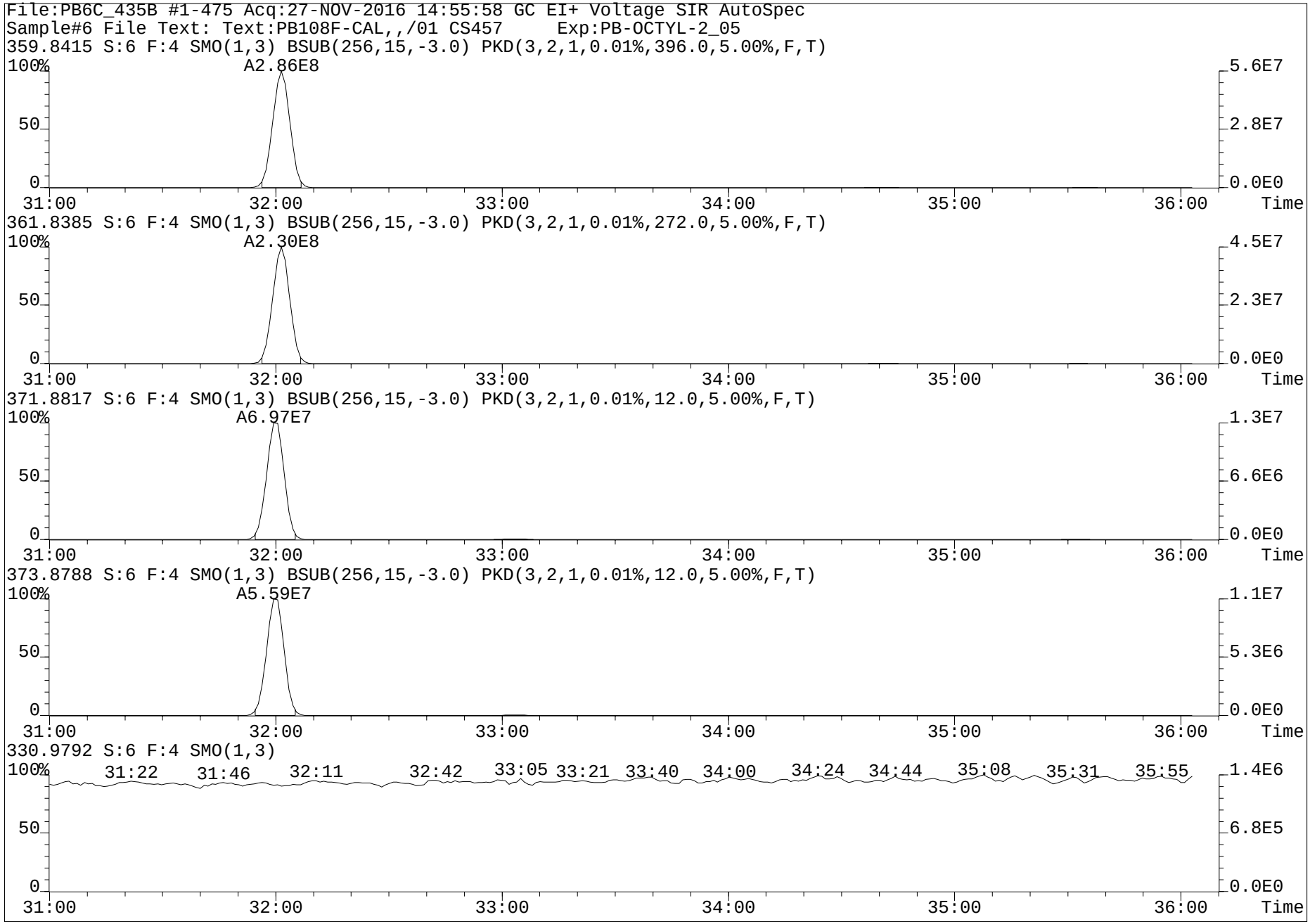

File:PB6C_435B #1-516 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
255.9613 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1732.0,5.00%,F,T)
A3.44E8
A3.48E8
257.9584 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1816.0,5.00%,F,T)
A3.29E8
A3.36E8
268.0016 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11936.0,5.00%,F,T)
A8.19E7
A8.38E7
269.9986 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6004.0,5.00%,F,T)
A7.82E7
A7.93E7
280.9825 S:6 F:3 SMO(1,3)
20:19 20:49 21:13 21:52 22:34 23:05 23:44 24:37 25:03 25:42 26:17 26:49 27:29
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
7.9E7 3.9E7 0.0E0
7.5E7 3.8E7 0.0E0
1.8E7 9.0E6 0.0E0
1.7E7 8.5E6 0.0E0
2.3E6 1.1E6 0.0E0

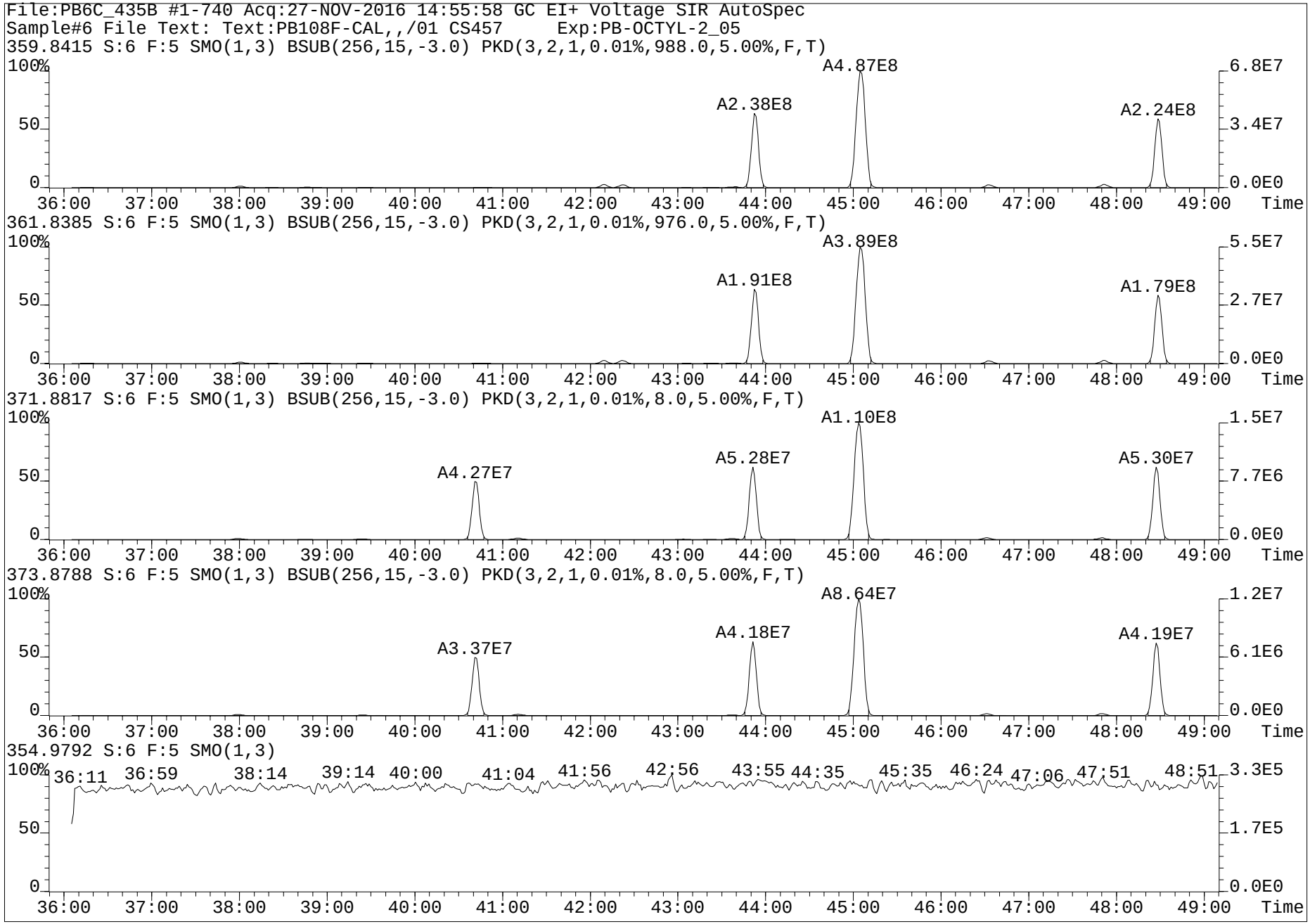

File:PB6C_435B #1-516 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
289.9224 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1796.0,5.00%,F,T)
100% A2.41E8
5.6E7
2.8E7
0.0E0
291.9199 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1652.0,5.00%,F,T)
100% A3.03E8
7.0E7
3.5E7
0.0E0
301.9626 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1956.0,5.00%,F,T)
100% A5.66E7
A4.12E7
1.3E7
6.6E6
0.0E0
303.9597 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,948.0,5.00%,F,T)
100% A7.11E7
A5.27E7
1.7E7
8.3E6
0.0E0
280.9825 S:6 F:3 SMO(1,3)
100%
20:19 20:49 21:13 21:52 22:34 23:05 23:44 24:37 25:03 25:42 26:17 26:49 27:29
2.3E6
1.1E6
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

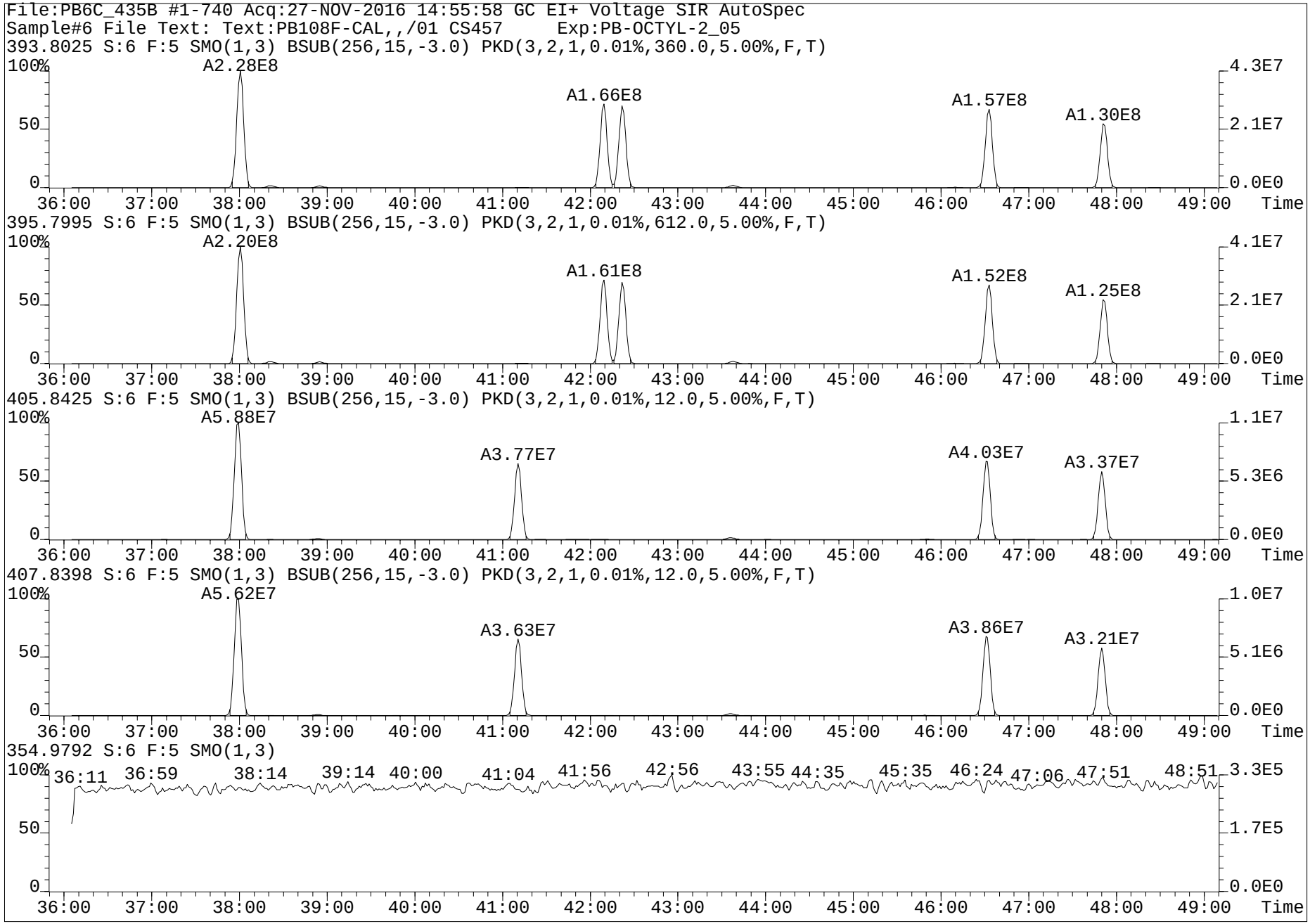

File:PB6C_435B #1-475 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
289.9224 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1068.0,5.00%,F,T)
A2.48E8 A2.54E8
291.9194 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1180.0,5.00%,F,T)
A3.15E8 A3.23E8
301.9626 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1384.0,5.00%,F,T)
A5.76E7 A5.94E7
303.9597 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,772.0,5.00%,F,T)
A7.46E7 A7.71E7
330.9792 S:6 F:4 SMO(1,3)
28:16 28:48 29:18 30:00 30:28 30:54 31:22 32:11 33:05 33:40 34:24 35:08 35:55
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
4.9E7 2.5E7 0.0E0
6.2E7 3.1E7 0.0E0
1.1E7 5.7E6 0.0E0
1.5E7 7.4E6 0.0E0
1.4E6 6.8E5 0.0E0

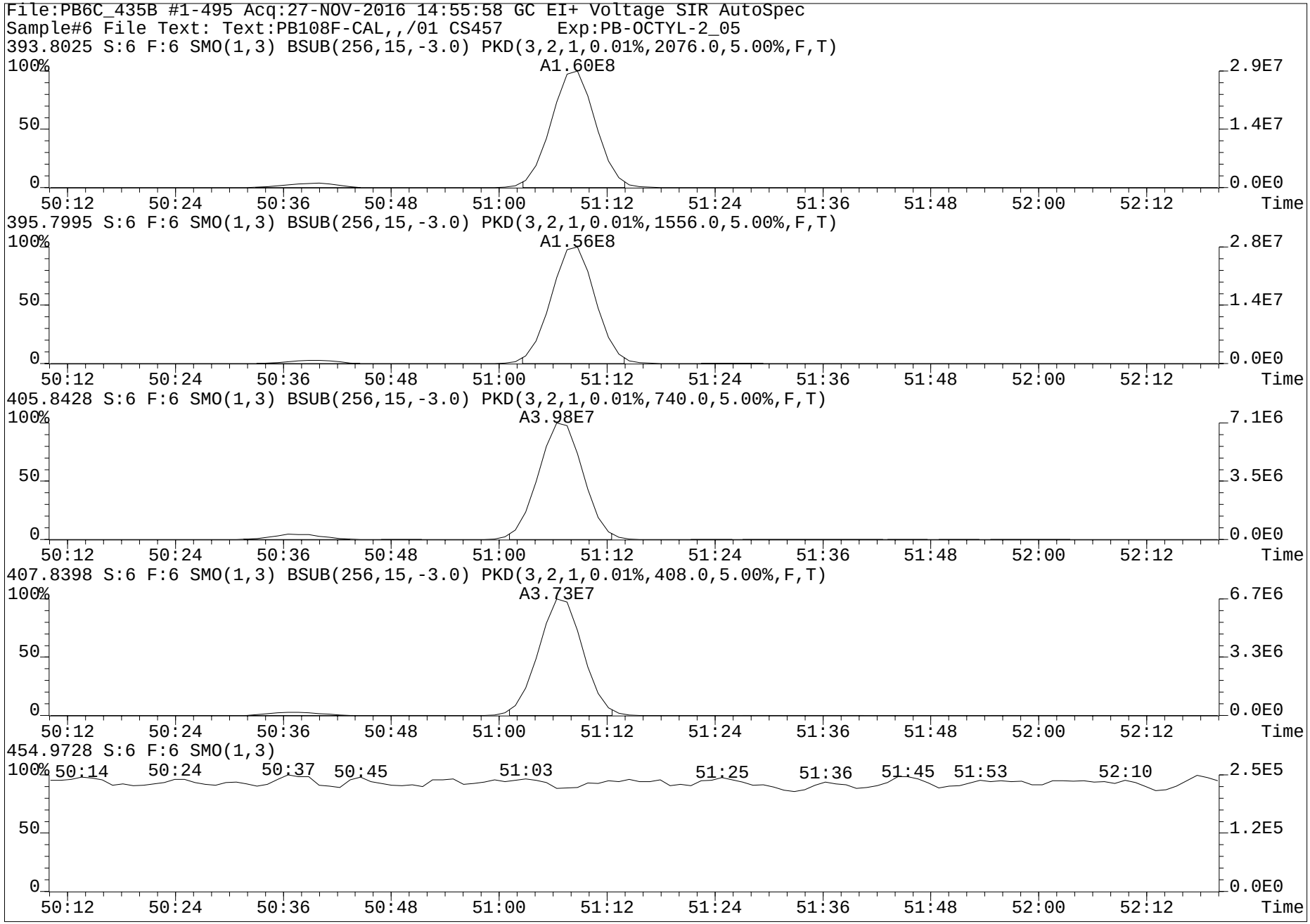

File:PB6C_435B #1-516 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
325.8804 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,504.0,5.00%,F,T)
A3.10E8
6.5E7
3.2E7
0.0E0
327.8775 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,432.0,5.00%,F,T)
A2.01E8
4.2E7
2.1E7
0.0E0
337.9207 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A7.39E7
1.5E7
7.7E6
0.0E0
339.9178 S:6 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A4.72E7
9.8E6
4.9E6
0.0E0
280.9825 S:6 F:3 SMO(1,3)
20:19 20:49 21:13 21:52 22:34 23:05 23:44 24:37 25:03 25:42 26:17 26:49 27:29
2.3E6
1.1E6
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

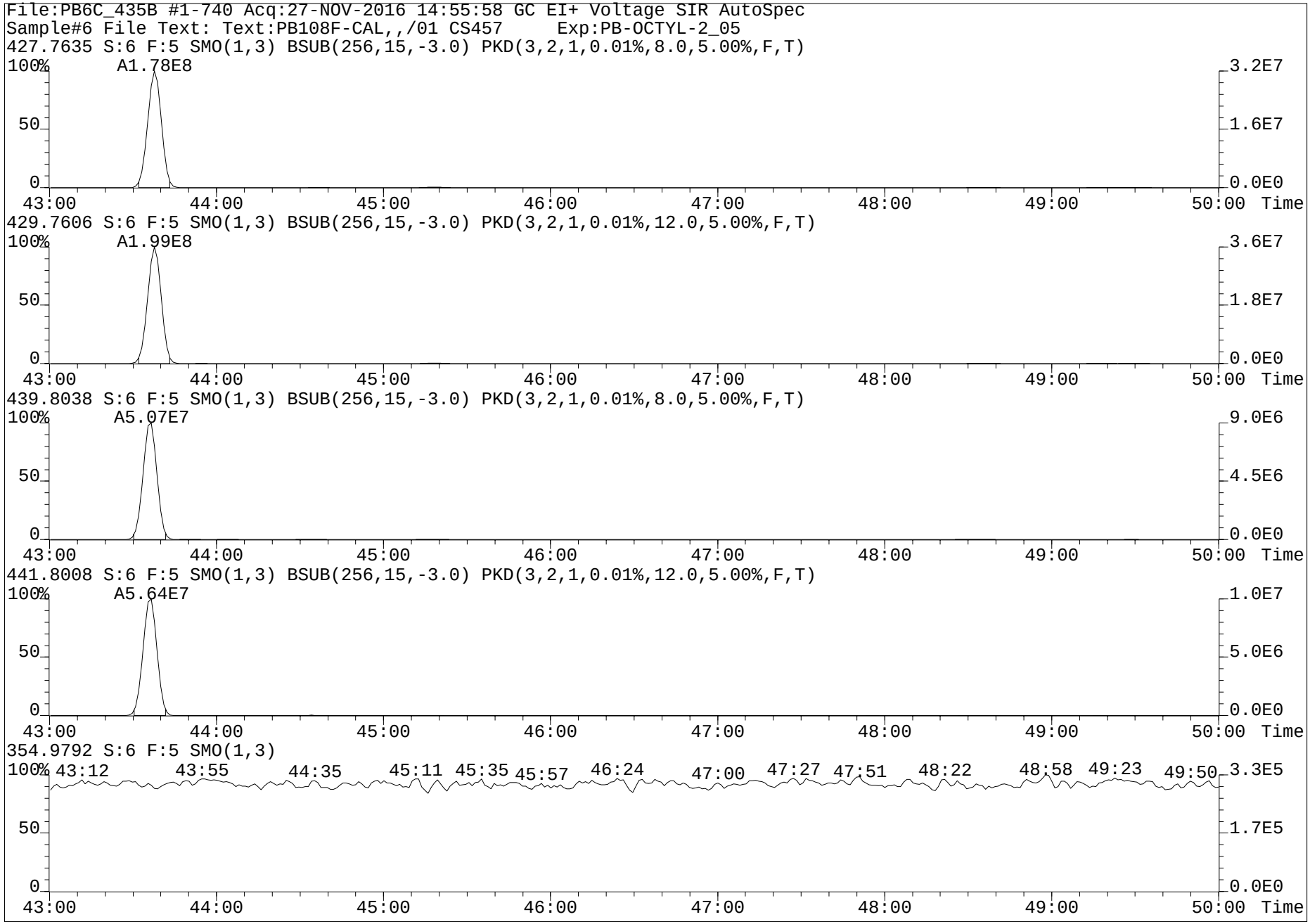

File:PB6C_435B #1-740 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
325.8804 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6056.0,5.00%,F,T)
A2.82E8 A2.85E8 A2.81E8 A2.62E8
327.8775 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2912.0,5.00%,F,T)
A1.82E8 A1.84E8 A1.82E8 A1.68E8
337.9207 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2992.0,5.00%,F,T)
A6.76E7 A6.60E7 A6.77E7 A6.24E7
339.9178 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,504.0,5.00%,F,T)
A4.29E7 A4.11E7 A4.29E7 A3.94E7
354.9792 S:6 F:5 SMO(1,3)
36:25 36:59 37:44 38:14 38:48 39:14 40:00 40:37 41:04 41:31 41:56 42:29 42:56
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 Time
5.4E7 2.7E7 0.0E0
3.5E7 1.7E7 0.0E0
1.3E7 6.3E6 0.0E0
7.9E6 3.9E6 0.0E0
3.3E5 1.7E5 0.0E0

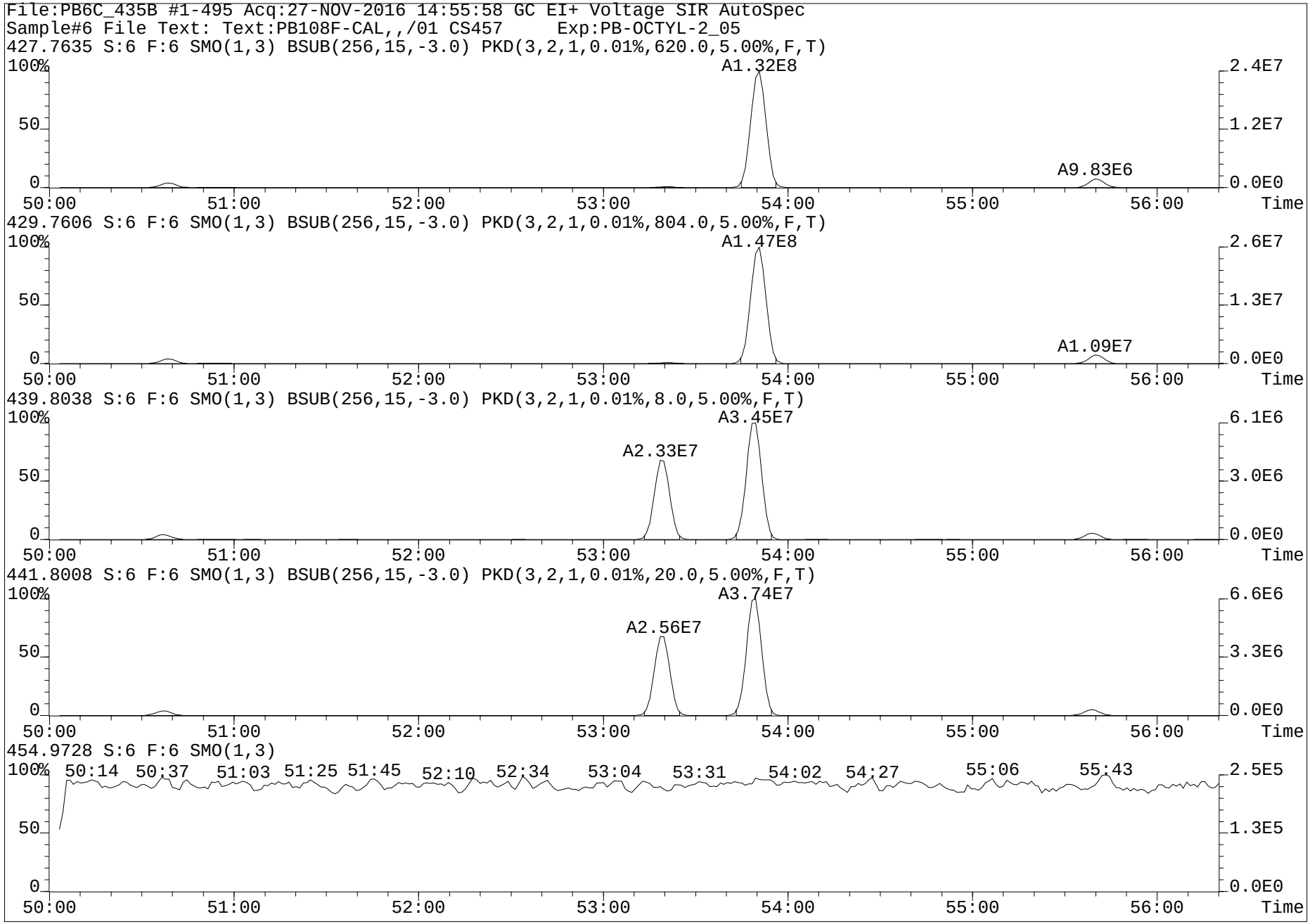

File:PB6C_435B #1-475 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
359.8415 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,396.0,5.00%,F,T)
A2.86E8
5.6E7
2.8E7
0.0E0
361.8385 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,272.0,5.00%,F,T)
A2.30E8
4.5E7
2.3E7
0.0E0
371.8817 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A6.97E7
1.3E7
6.6E6
0.0E0
373.8788 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.59E7
1.1E7
5.3E6
0.0E0
330.9792 S:6 F:4 SMO(1,3)
31:22 31:46 32:11 32:42 33:05 33:21 33:40 34:00 34:24 34:44 35:08 35:31 35:55
1.4E6
6.8E5
0.0E0
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time

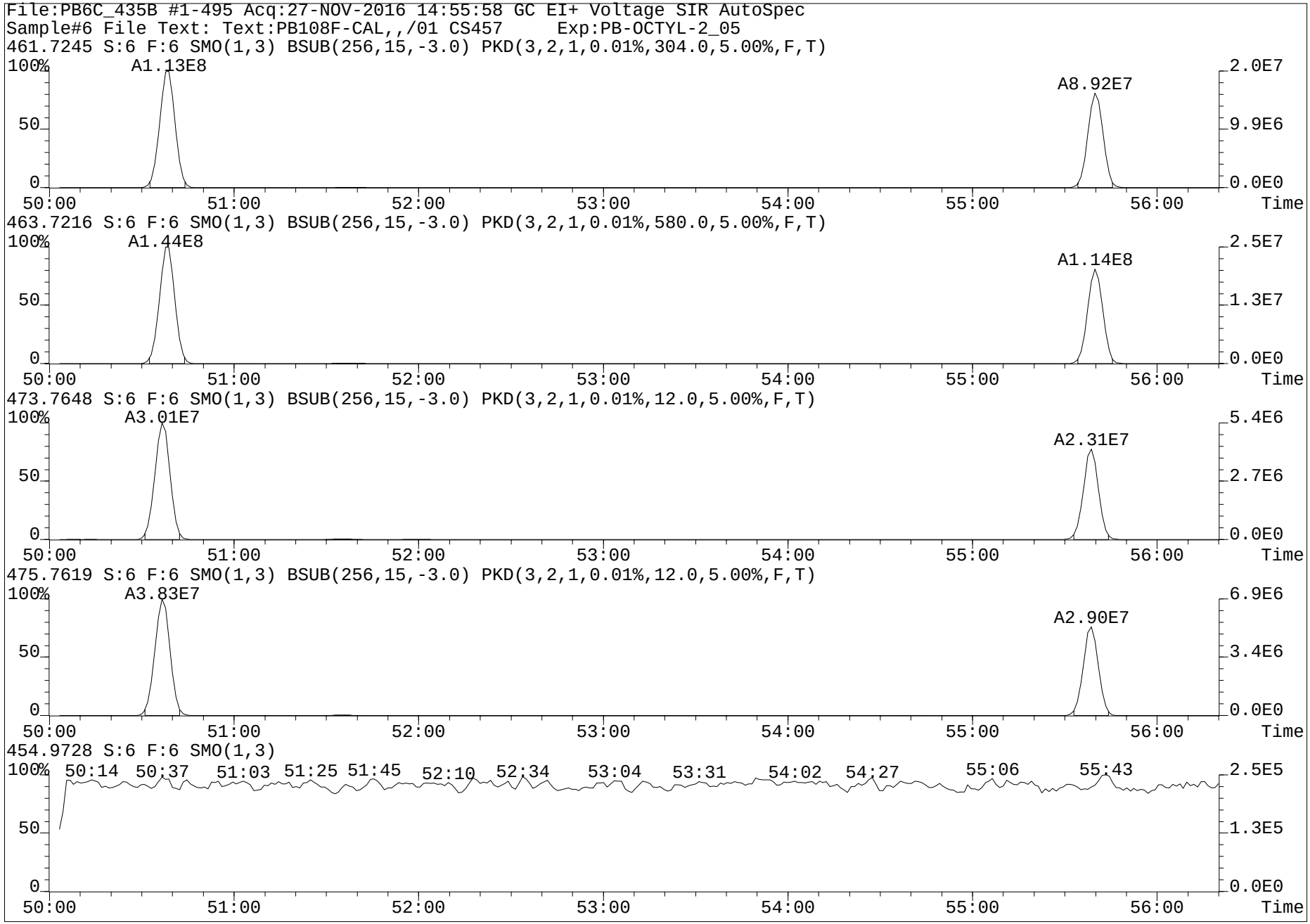

File:PB6C_435B #1-740 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
359.8415 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,988.0,5.00%,F,T)
A2.38E8
A4.87E8
A2.24E8
361.8385 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,976.0,5.00%,F,T)
A1.91E8
A3.89E8
A1.79E8
371.8817 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A4.27E7
A5.28E7
A1.10E8
A5.30E7
373.8788 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.37E7
A4.18E7
A8.64E7
A4.19E7
354.9792 S:6 F:5 SMO(1,3)
36:11 36:59 38:14 39:14 40:00 41:04 41:56 42:56 43:55 44:35 45:35 46:24 47:06 47:51 48:51
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
6.8E7
3.4E7
0.0E0
5.5E7
2.7E7
1.5E7
7.7E6
1.2E7
6.1E6
3.3E5
1.7E5

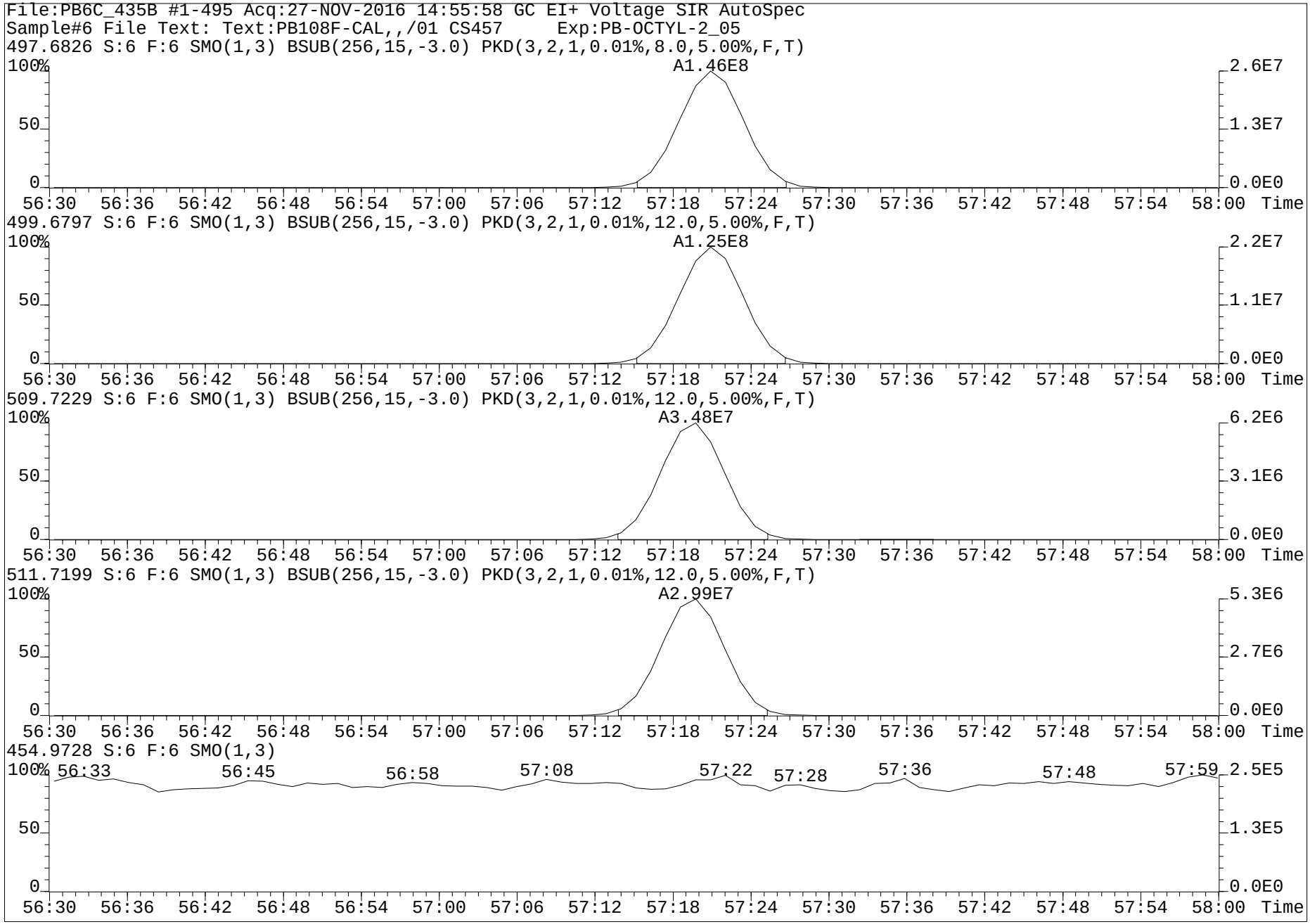

File:PB6C_435B #1-740 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
393.8025 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,360.0,5.00%,F,T)
A2.28E8
A1.66E8
A1.57E8
A1.30E8
395.7995 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,612.0,5.00%,F,T)
A2.20E8
A1.61E8
A1.52E8
A1.25E8
405.8425 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.88E7
A3.77E7
A4.03E7
A3.37E7
407.8398 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.62E7
A3.63E7
A3.86E7
A3.21E7
354.9792 S:6 F:5 SMO(1,3)
36:11 36:59 38:14 39:14 40:00 41:04 41:56 42:56 43:55 44:35 45:35 46:24 47:06 47:51 48:51
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
4.3E7
2.1E7
0.0E0
4.1E7
1.1E7
5.3E6
1.0E7
5.1E6
3.3E5
1.7E5

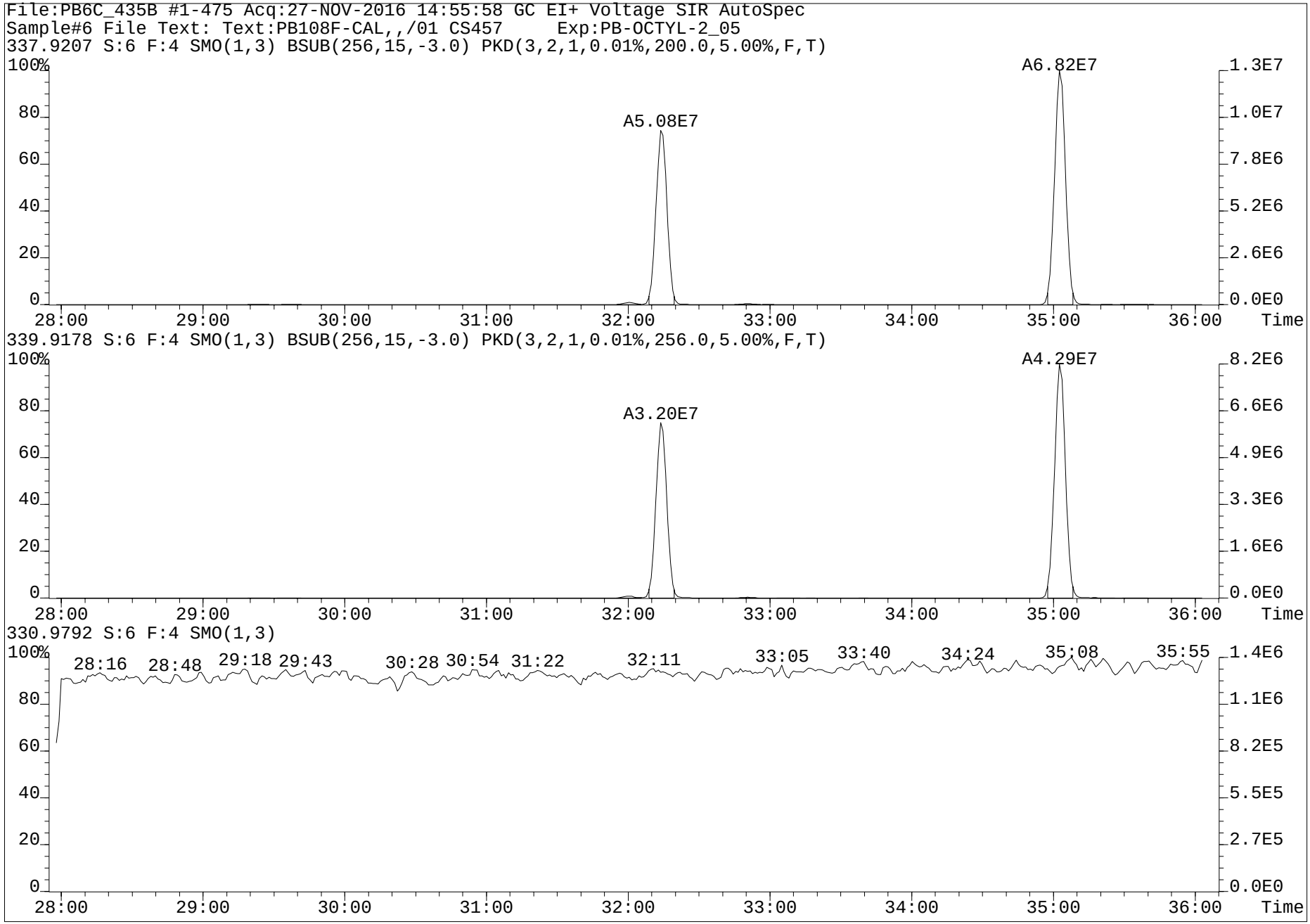

File:PB6C_435B #1-495 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
393.8025 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2076.0,5.00%,F,T)
A1.60E8
395.7995 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1556.0,5.00%,F,T)
A1.56E8
405.8428 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,740.0,5.00%,F,T)
A3.98E7
407.8398 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A3.73E7
454.9728 S:6 F:6 SMO(1,3)
50:14 50:24 50:37 50:45 51:03 51:25 51:36 51:45 51:53 52:10
100%
50
0
2.9E7
1.4E7
0.0E0
2.8E7
7.1E6
3.5E6
6.7E6
3.3E6
2.5E5
1.2E5
50:12 50:24 50:36 50:48 51:00 51:12 51:24 51:36 51:48 52:00 52:12 Time


File:PB6C_435B #1-740 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
427.7635 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A1.78E8
3.2E7
1.6E7
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
429.7606 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A1.99E8
3.6E7
1.8E7
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
439.8038 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A5.07E7
9.0E6
4.5E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
441.8008 S:6 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A5.64E7
1.0E7
5.0E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
354.9792 S:6 F:5 SMO(1,3)
100% 43:12 43:55 44:35 45:11 45:35 45:57 46:24 47:00 47:27 47:51 48:22 48:58 49:23 49:50
3.3E5
1.7E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-495 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
427.7635 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,620.0,5.00%,F,T)
A1.32E8
A9.83E6
429.7606 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,804.0,5.00%,F,T)
A1.47E8
A1.09E7
439.8038 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.45E7
A2.33E7
441.8008 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20.0,5.00%,F,T)
A3.74E7
A2.56E7
454.9728 S:6 F:6 SMO(1,3)
50:14 50:37 51:03 51:25 51:45 52:10 52:34 53:04 53:31 54:02 54:27 55:06 55:43
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
2.4E7 1.2E7 0.0E0
2.6E7 1.3E7 0.0E0
6.1E6 3.0E6 0.0E0
6.6E6 3.3E6 0.0E0
2.5E5 1.3E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
461.7245 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A1.13E8
A8.92E7
463.7216 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,580.0,5.00%,F,T)
A1.44E8
A1.14E8
473.7648 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.01E7
A2.31E7
475.7619 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.83E7
A2.90E7
454.9728 S:6 F:6 SMO(1,3)
50:14 50:37 51:03 51:25 51:45 52:10 52:34 53:04 53:31 54:02 54:27 55:06 55:43
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
2.0E7 9.9E6 0.0E0
2.5E7 1.3E7 0.0E0
5.4E6 2.7E6 0.0E0
6.9E6 3.4E6 0.0E0
2.5E5 1.3E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
497.6826 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.46E8
499.6797 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A1.25E8
509.7229 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.48E7
511.7199 S:6 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.99E7
454.9728 S:6 F:6 SMO(1,3)
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.6E7
1.3E7
0.0E0
2.2E7
1.1E7
6.2E6
3.1E6
5.3E6
2.7E6
2.5E5
1.3E5
56:33 56:45 56:58 57:08 57:22 57:28 57:36 57:48 57:59


File:PB6C_435B #1-475 Acq:27-NOV-2016 14:55:58 GC EI+ Voltage SIR AutoSpec
Sample#6 File Text: Text:PB108F-CAL,,/01 CS457 Exp:PB-OCTYL-2_05
337.9207 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,200.0,5.00%,F,T)
A5.08E7
A6.82E7
339.9178 S:6 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A3.20E7
A4.29E7
330.9792 S:6 F:4 SMO(1,3)
28:16 28:48 29:18 29:43 30:28 30:54 31:22 32:11 33:05 33:40 34:24 35:08 35:55
100%
80
60
40
20
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
1.3E7 1.0E7 7.8E6 5.2E6 2.6E6 0.0E0
8.2E6 6.6E6 4.9E6 3.3E6 1.6E6 0.0E0
1.4E6 1.1E6 8.2E5 5.5E5 2.7E5 0.0E0

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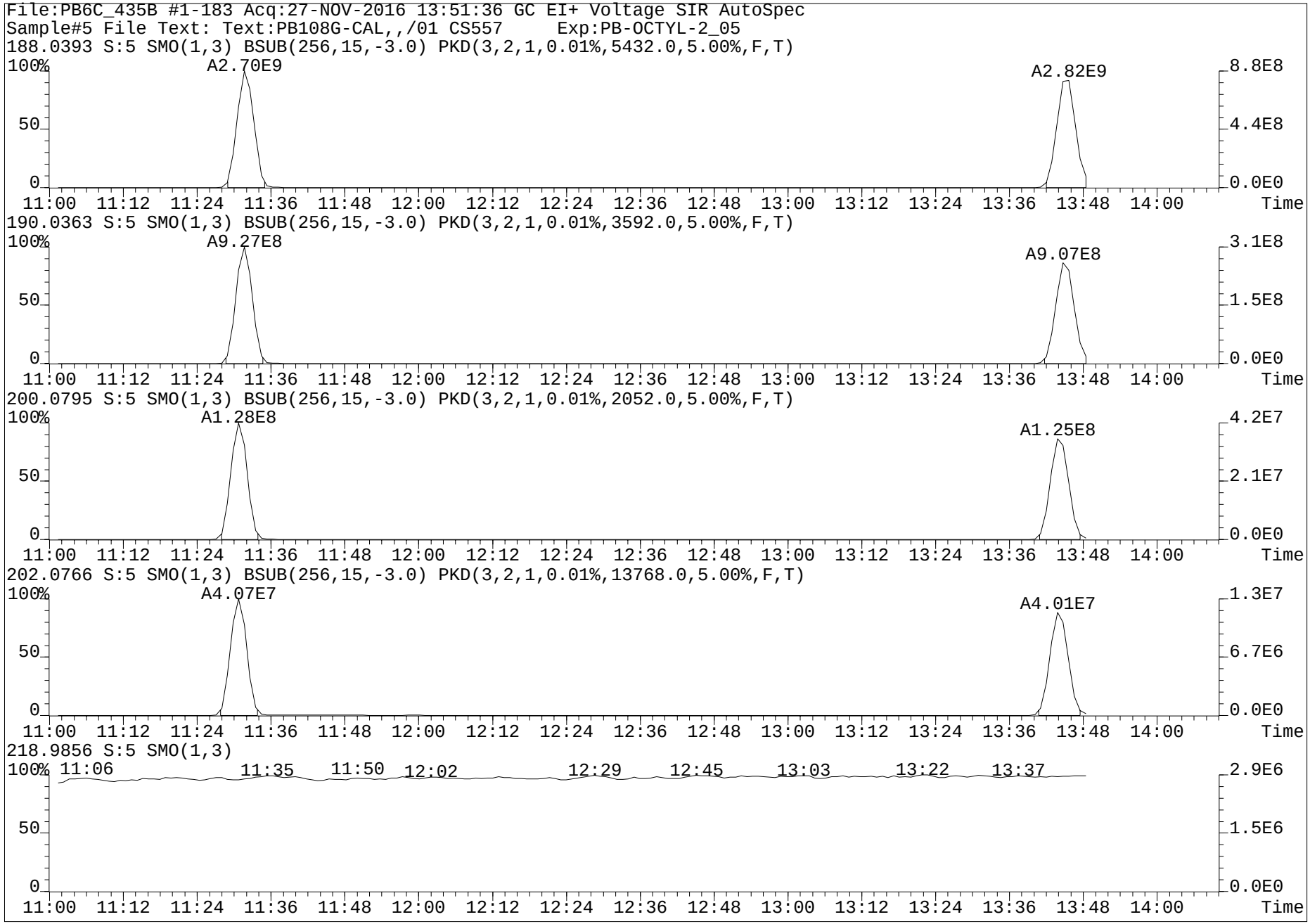
Run #6 Filename PB6C_435B S: 5 I: 1 Acquired: 27-NOV-16 13:51:36 Processed: 28-NOV-16 14:50:12
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: PB9C_274A-CAL Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108G-CAL,,/01 CS557 Comments: 1,,1.0uL CS-5 F1: 2000.00 F2: 1.00

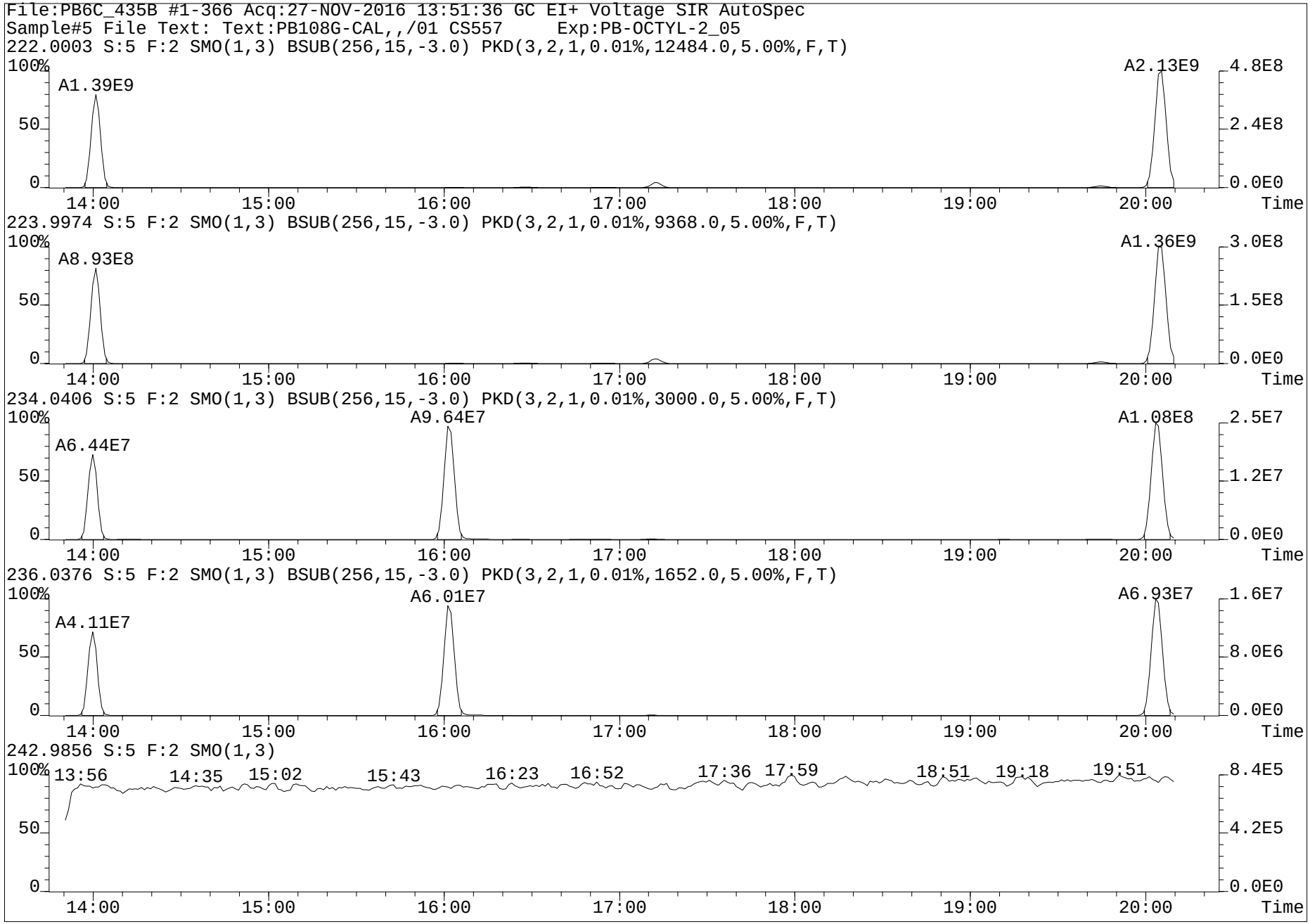
| | Typ | Name | Amount | Resp | RA | RT | s/n | RF | RRF | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 2000.00 | 3.62e+09 | 2.91 y | 11:32 | 1.6e+05 | - | 1.0733 | y n |
| 2 | Unk | CL1-PCB-3 | 2000.00 | 3.72e+09 | 3.11 y | 13:45 | 1.5e+05 | - | 1.1310 | y n |
| 3 | Unk | CL2-PCB-4 | 2000.00 | 2.28e+09 | 1.55 y | 14:01 | 3.1e+04 | - | 1.0812 | y n |
| 4 | Unk | CL2-PCB-15 | 2000.00 | 3.49e+09 | 1.57 y | 20:05 | 3.8e+04 | - | 0.9804 | y n |
| 5 | Unk | CL3-PCB-19 | 2000.00 | 1.99e+09 | 1.05 y | 17:12 | 1.3e+06 | - | 1.0391 | y n |
| 6 | Unk | CL3-PCB-37 | 2000.00 | 3.29e+09 | 1.04 y | 27:23 | 5.7e+04 | - | 1.0621 | y n |
| 7 | Unk | CL4-PCB-54 | 2000.00 | 2.66e+09 | 0.79 y | 20:23 | 4.1e+04 | - | 1.0896 | y n |
| 8 | Unk | CL4-PCB-81 | 2000.00 | 2.70e+09 | 0.78 y | 34:27 | 1.2e+05 | - | 1.0782 | y n |
| 9 | Unk | CL4-PCB-77 | 2000.00 | 2.71e+09 | 0.79 y | 35:01 | 1.2e+05 | - | 1.0795 | y n |
| 10 | Unk | CL5-PCB-104 | 2000.00 | 2.52e+09 | 1.58 y | 26:06 | 2.7e+07 | - | 1.1126 | y n |
| 11 | Unk | CL5-PCB-123 | 2000.00 | 2.17e+09 | 1.56 y | 37:08 | 1.6e+04 | - | 1.0295 | y n |
| 12 | Unk | CL5-PCB-118 | 2000.00 | 2.25e+09 | 1.56 y | 37:28 | 1.6e+04 | - | 1.0764 | y n |
| 13 | Unk | CL5-PCB-114 | 2000.00 | 2.31e+09 | 1.55 y | 38:01 | 1.7e+04 | - | 1.1286 | y n |
| 14 | Unk | CL5-PCB-105 | 2000.00 | 2.19e+09 | 1.56 y | 38:42 | 1.6e+04 | - | 1.0755 | y n |
| 15 | Unk | CL5-PCB-126 | 2000.00 | 2.05e+09 | 1.55 y | 41:56 | 1.5e+04 | - | 1.0856 | y n |
| 16 | Unk | CL6-PCB-155 | 2000.00 | 2.60e+09 | 1.26 y | 32:02 | 2.3e+07 | - | 1.0679 | y n |
| 17 | Unk | CL6-PCB-167 | 2000.00 | 2.06e+09 | 1.26 y | 43:53 | 1.1e+05 | - | 1.1736 | y n |
| 18 | Unk | CL6-PCB-156/157 | 4000.00 | 4.23e+09 | 1.26 y | 45:06 | 1.7e+05 | - | 1.1266 | y n |
| 19 | Unk | CL6-PCB-169 | 2000.00 | 1.88e+09 | 1.25 y | 48:29 | 9.6e+04 | - | 1.0791 | y n |
| 20 | Unk | CL7-PCB-188 | 2000.00 | 2.23e+09 | 1.03 y | 38:01 | 4.6e+05 | - | 1.0053 | y n |
| 21 | Unk | CL7-PCB-189 | 2000.00 | 1.50e+09 | 1.04 y | 51:08 | 4.4e+04 | - | 1.0426 | y n |
| 22 | Unk | CL8-PCB-202 | 2000.00 | 1.80e+09 | 0.89 y | 43:38 | 1.3e+07 | - | 0.9026 | y n |
| 23 | Unk | CL8-PCB-205 | 2000.00 | 1.35e+09 | 0.90 y | 53:50 | 5.4e+04 | - | 0.9984 | y n |
| 24 | Unk | CL9-PCB-208 | 2000.00 | 1.23e+09 | 0.78 y | 50:39 | 1.2e+05 | - | 0.9487 | y n |
| 25 | Unk | CL9-PCB-206 | 2000.00 | 9.77e+08 | 0.78 y | 55:40 | 9.5e+04 | - | 1.0038 | y n |
| 26 | Unk | CL10-PCB-209 | 2000.00 | 1.31e+09 | 1.17 y | 57:21 | 7.9e+06 | - | 1.0642 | y n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.69e+08 | 3.15 y | 11:31 | 2.1e+04 | - | 1.0790 | y n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.65e+08 | 3.10 y | 13:44 | 1.8e+04 | - | 1.0524 | y n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 1.05e+08 | 1.57 y | 14:00 | 6.0e+03 | - | 0.6737 | y n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.78e+08 | 1.56 y | 20:03 | 8.2e+03 | - | 1.1361 | y n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 9.57e+07 | 1.04 y | 17:11 | 1.8e+03 | - | 0.6116 | y n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.55e+08 | 1.05 y | 27:22 | 1.3e+03 | - | 1.8026 | y n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.22e+08 | 0.79 y | 20:21 | 7.8e+03 | - | 1.4219 | y n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.25e+08 | 0.78 y | 34:25 | 7.0e+03 | - | 1.4534 | y n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.25e+08 | 0.77 y | 35:00 | 6.9e+03 | - | 1.4584 | y n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.13e+08 | 1.53 y | 26:05 | 9.0e+05 | - | 1.4687 | y n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 1.06e+08 | 1.57 y | 37:06 | 1.3e+04 | - | 1.3673 | y n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 1.05e+08 | 1.57 y | 37:27 | 1.3e+04 | - | 1.3550 | y n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 1.02e+08 | 1.58 y | 38:00 | 1.3e+04 | - | 1.3238 | y n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 1.02e+08 | 1.58 y | 38:40 | 1.2e+04 | - | 1.3201 | y n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 9.44e+07 | 1.58 y | 41:54 | 1.1e+04 | - | 1.2232 | y n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.22e+08 | 1.24 y | 32:01 | 1.6e+06 | - | 1.8059 | y n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 8.76e+07 | 1.26 y | 43:52 | 7.6e+05 | - | 1.2987 | y n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.88e+08 | 1.28 y | 45:04 | 1.3e+06 | - | 1.3904 | y n |

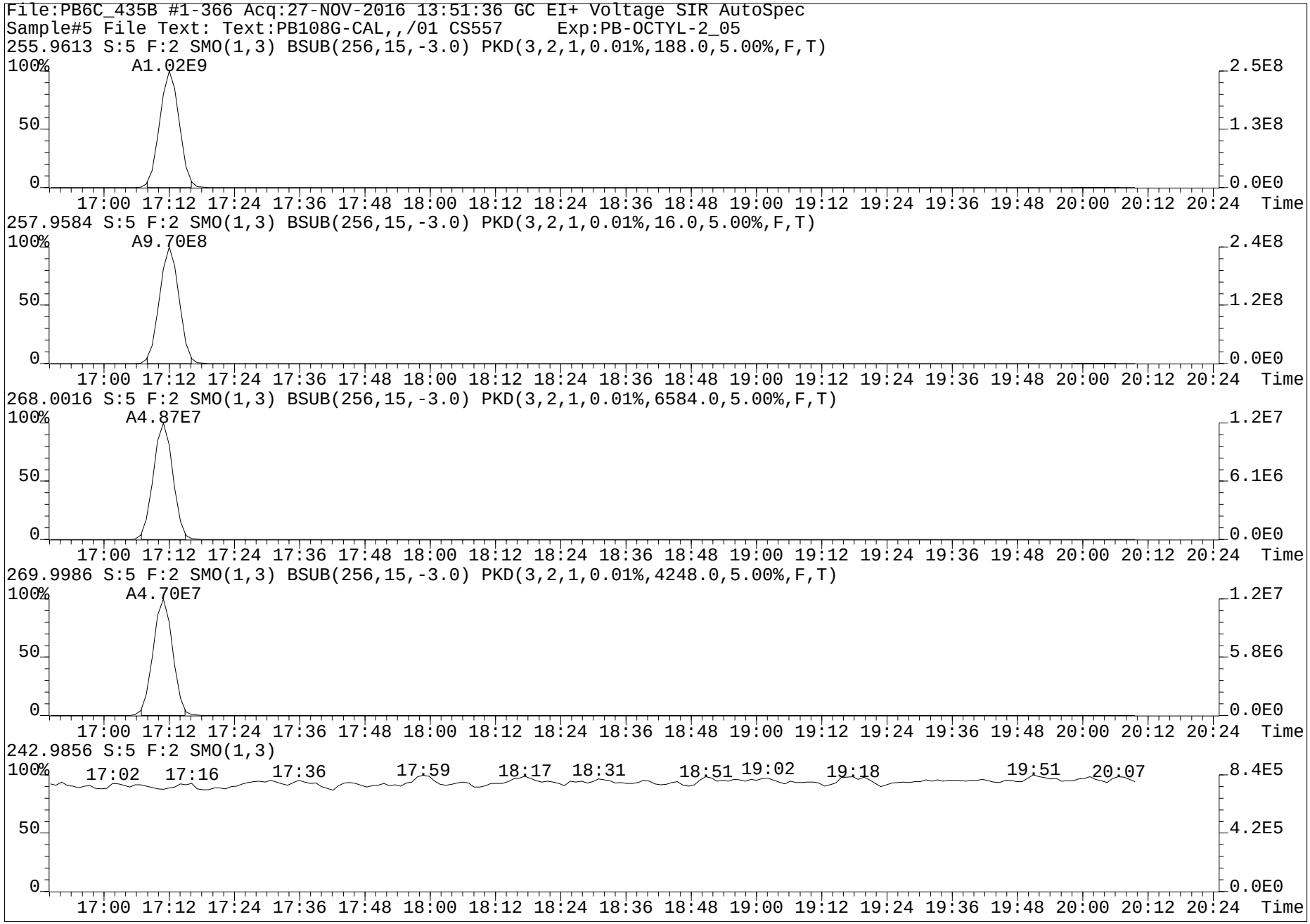
SJ:JA 29-Nov-16

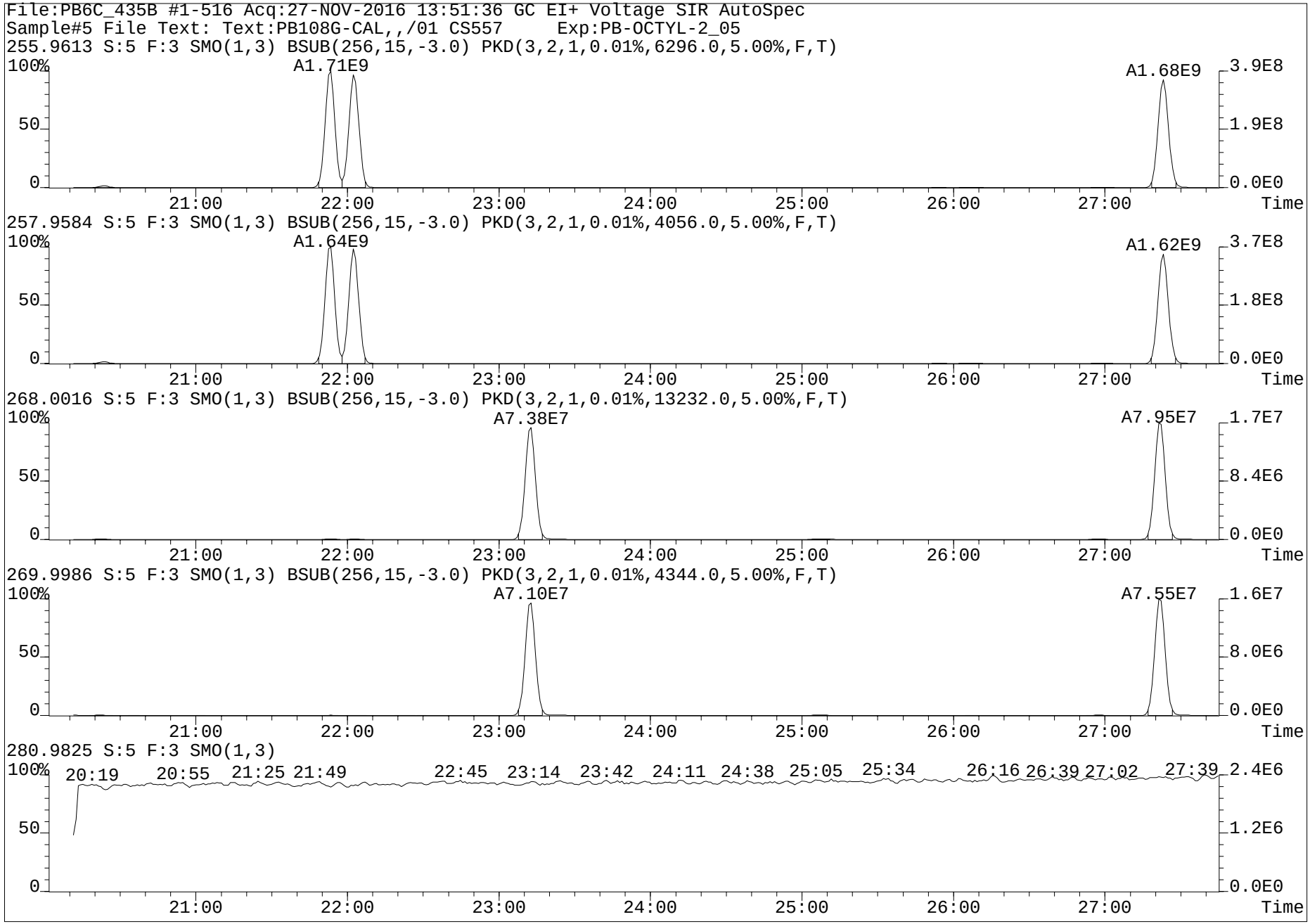
PV'd by PL 29Nov16

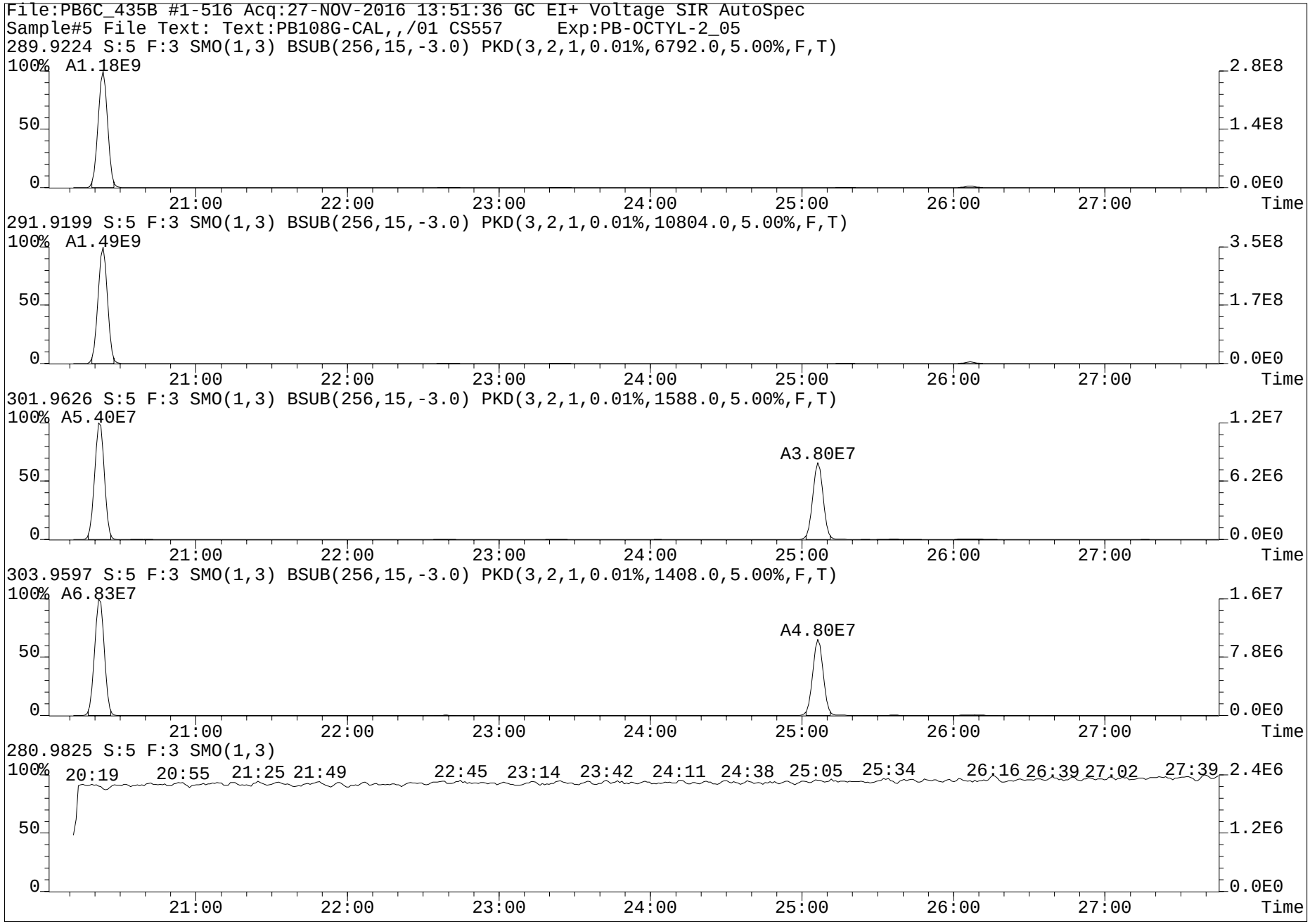
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 8.72e+07 | 1.28 y | 48:28 | - | 1.2921 | y | n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 1.11e+08 | 1.04 y | 38:00 | - | 2.6237 | y | n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 7.18e+07 | 1.07 y | 51:07 | - | 1.7010 | y | n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 9.96e+07 | 0.90 y | 43:36 | - | 2.3605 | y | n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 6.76e+07 | 0.92 y | 53:49 | - | 1.6021 | y | n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 6.47e+07 | 0.79 y | 50:37 | - | 1.5330 | y | n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 4.86e+07 | 0.79 y | 55:38 | - | 1.1523 | y | n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 6.18e+07 | 1.16 y | 57:19 | - | 1.4631 | y | n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.56e+08 | 1.60 y | 16:01 | 1.56e+06 | - | n | n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 8.60e+07 | 0.79 y | 25:06 | 8.60e+05 | - | n | n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 7.72e+07 | 1.60 y | 32:14 | 7.72e+05 | - | n | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 6.75e+07 | 1.26 y | 40:42 | 6.75e+05 | - | n | n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 4.22e+07 | 0.91 y | 53:19 | 4.22e+05 | - | n | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.45e+08 | 1.04 y | 23:12 | - | 1.6840 | y | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 1.04e+08 | 1.58 y | 35:03 | - | 1.3411 | y | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 6.81e+07 | 1.04 y | 41:11 | - | 1.0096 | y | n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.22e+08 | 0.79 y | 20:21 | - | 1.4219 | y | n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 1.11e+08 | 1.04 y | 38:00 | - | 2.6237 | y | n |
| 63 | LM | CL1-LOCK | 0.00 | - | | - | - | - | n | n |
| 64 | LM | CL2-LOCK | 0.00 | - | | - | - | - | n | n |
| 65 | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | - | - | - | n | n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | - | - | - | n | n |
| 68 | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 69 | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | - | - | - | n | n |
| 71 | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 72 | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | - | - | - | n | n |
| 74 | LM | CL10-LOCK | 0.00 | - | | - | - | - | n | n |

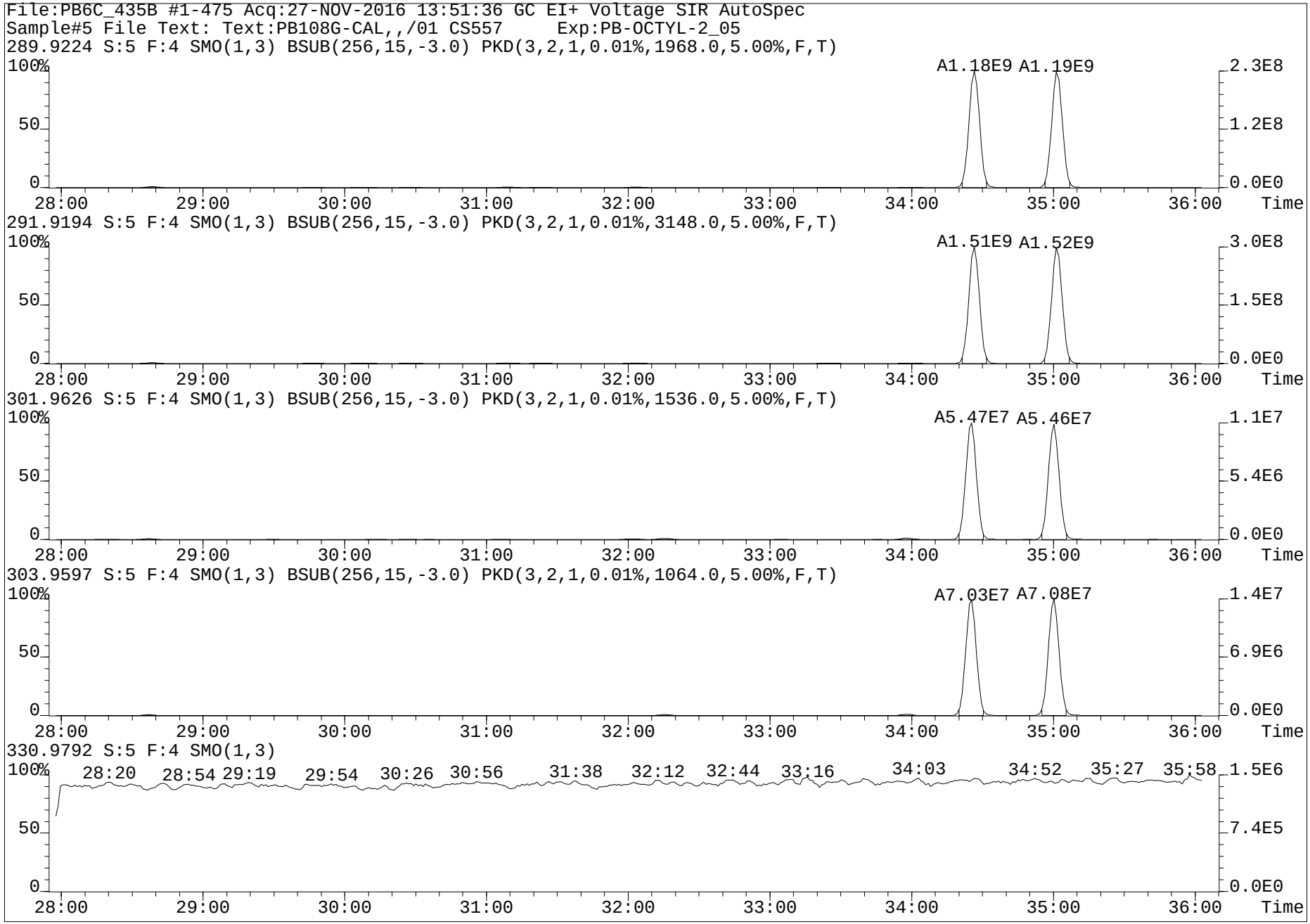

File:PB6C_435B #1-183 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
188.0393 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5432.0,5.00%,F,T)
A2.70E9
A2.82E9
190.0363 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3592.0,5.00%,F,T)
A9.27E8
A9.07E8
200.0795 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2052.0,5.00%,F,T)
A1.28E8
A1.25E8
202.0766 S:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,13768.0,5.00%,F,T)
A4.07E7
A4.01E7
218.9856 S:5 SMO(1,3)
11:06
11:35
11:50
12:02
12:29
12:45
13:03
13:22
13:37
100%
50
0
8.8E8
4.4E8
3.1E8
1.5E8
4.2E7
2.1E7
1.3E7
6.7E6
2.9E6
1.5E6
0.0E0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

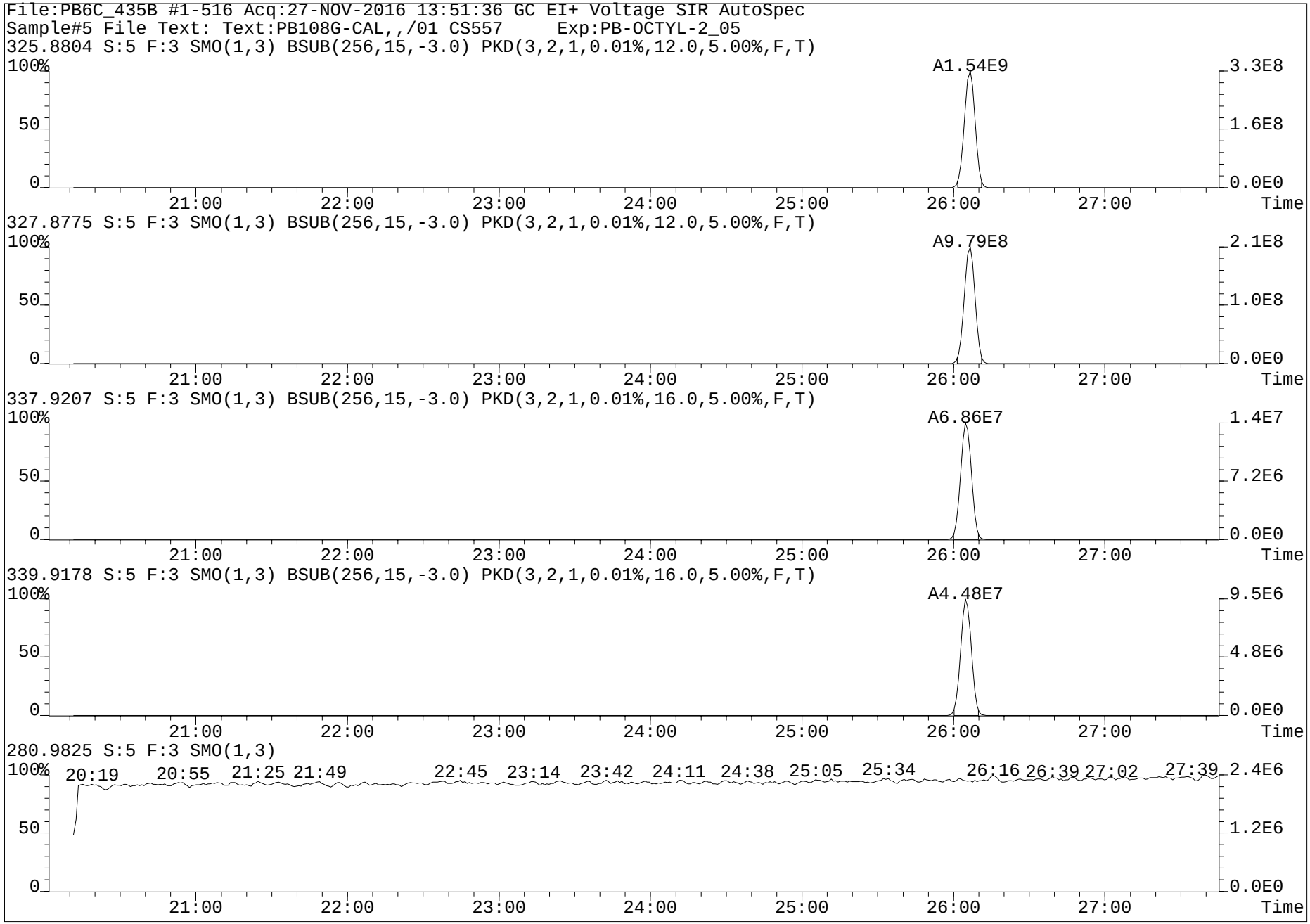

File:PB6C_435B #1-366 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
222.0003 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12484.0,5.00%,F,T)
A1.39E9
A2.13E9
223.9974 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,9368.0,5.00%,F,T)
A8.93E8
A1.36E9
234.0406 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3000.0,5.00%,F,T)
A6.44E7
A9.64E7
A1.08E8
236.0376 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1652.0,5.00%,F,T)
A4.11E7
A6.01E7
A6.93E7
242.9856 S:5 F:2 SMO(1,3)
13:56
14:35
15:02
15:43
16:23
16:52
17:36
17:59
18:51
19:18
19:51
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
4.8E8
2.4E8
0.0E0
3.0E8
1.5E8
2.5E7
1.2E7
1.6E7
8.0E6
8.4E5
4.2E5

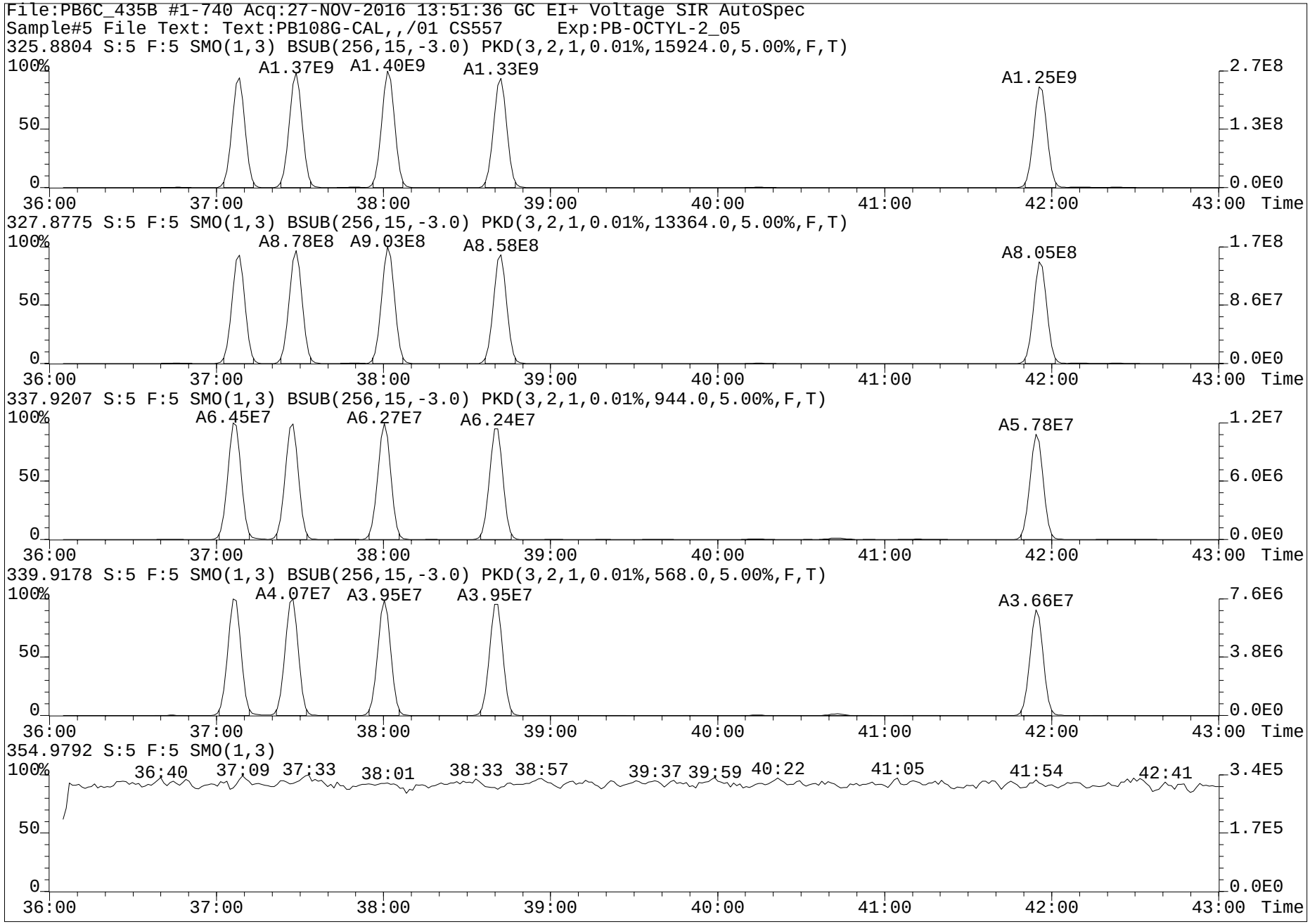

File:PB6C_435B #1-366 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
255.9613 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,188.0,5.00%,F,T)
A1.02E9
257.9584 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A9.70E8
268.0016 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6584.0,5.00%,F,T)
A4.87E7
269.9986 S:5 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4248.0,5.00%,F,T)
A4.70E7
242.9856 S:5 F:2 SMO(1,3)
17:02 17:16 17:36 17:59 18:17 18:31 18:51 19:02 19:18 19:51 20:07
100%
50
0
2.5E8
1.3E8
0.0E0
2.4E8
1.2E8
1.2E7
6.1E6
1.2E7
5.8E6
8.4E5
4.2E5
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

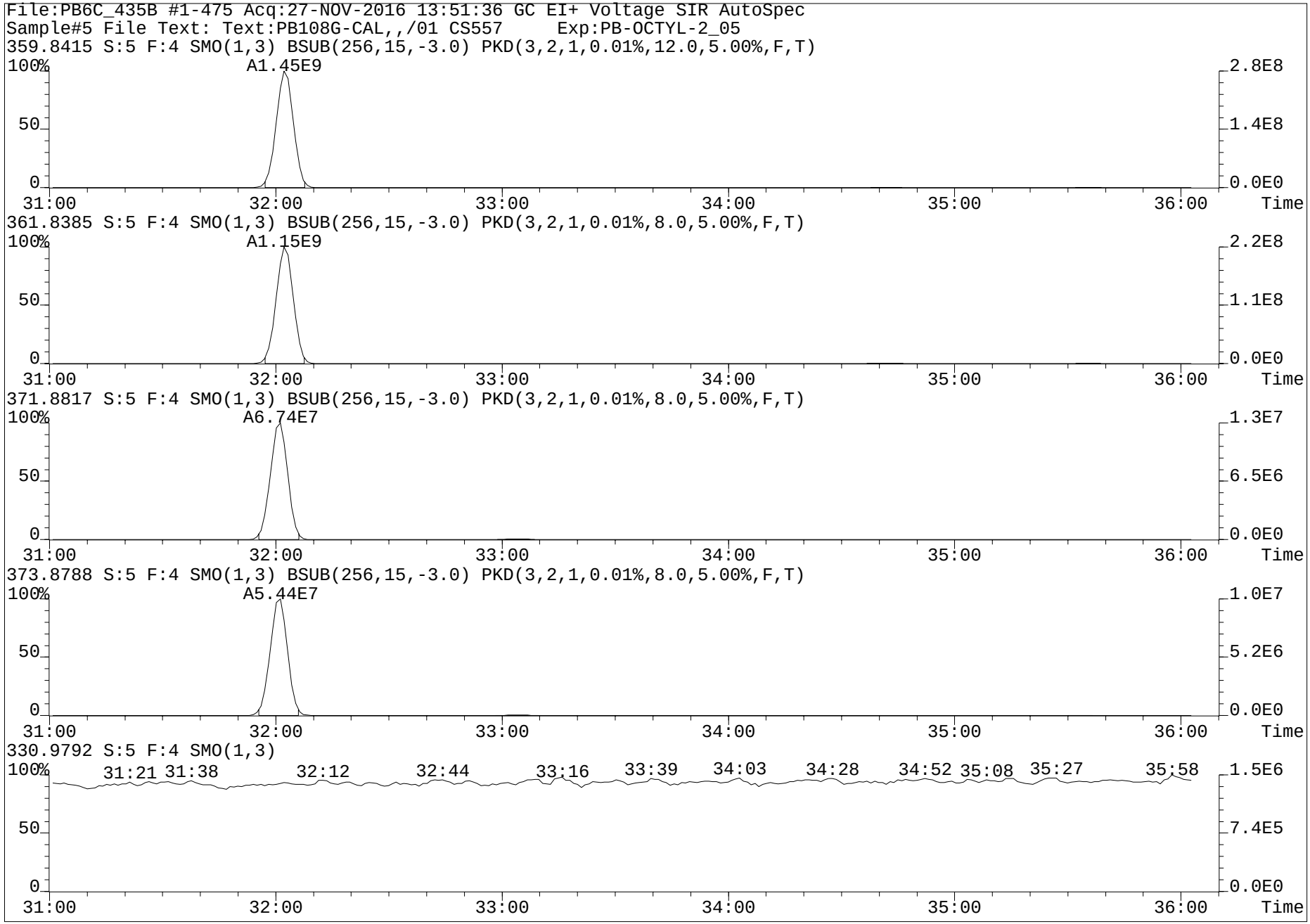

File:PB6C_435B #1-516 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
255.9613 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6296.0,5.00%,F,T)
A1.71E9
A1.68E9
257.9584 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4056.0,5.00%,F,T)
A1.64E9
A1.62E9
268.0016 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,13232.0,5.00%,F,T)
A7.38E7
A7.95E7
269.9986 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4344.0,5.00%,F,T)
A7.10E7
A7.55E7
280.9825 S:5 F:3 SMO(1,3)
20:19 20:55 21:25 21:49 22:45 23:14 23:42 24:11 24:38 25:05 25:34 26:16 26:39 27:02 27:39
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
3.9E8 1.9E8 0.0E0
3.7E8 1.8E8 0.0E0
1.7E7 8.4E6 0.0E0
1.6E7 8.0E6 0.0E0
2.4E6 1.2E6 0.0E0

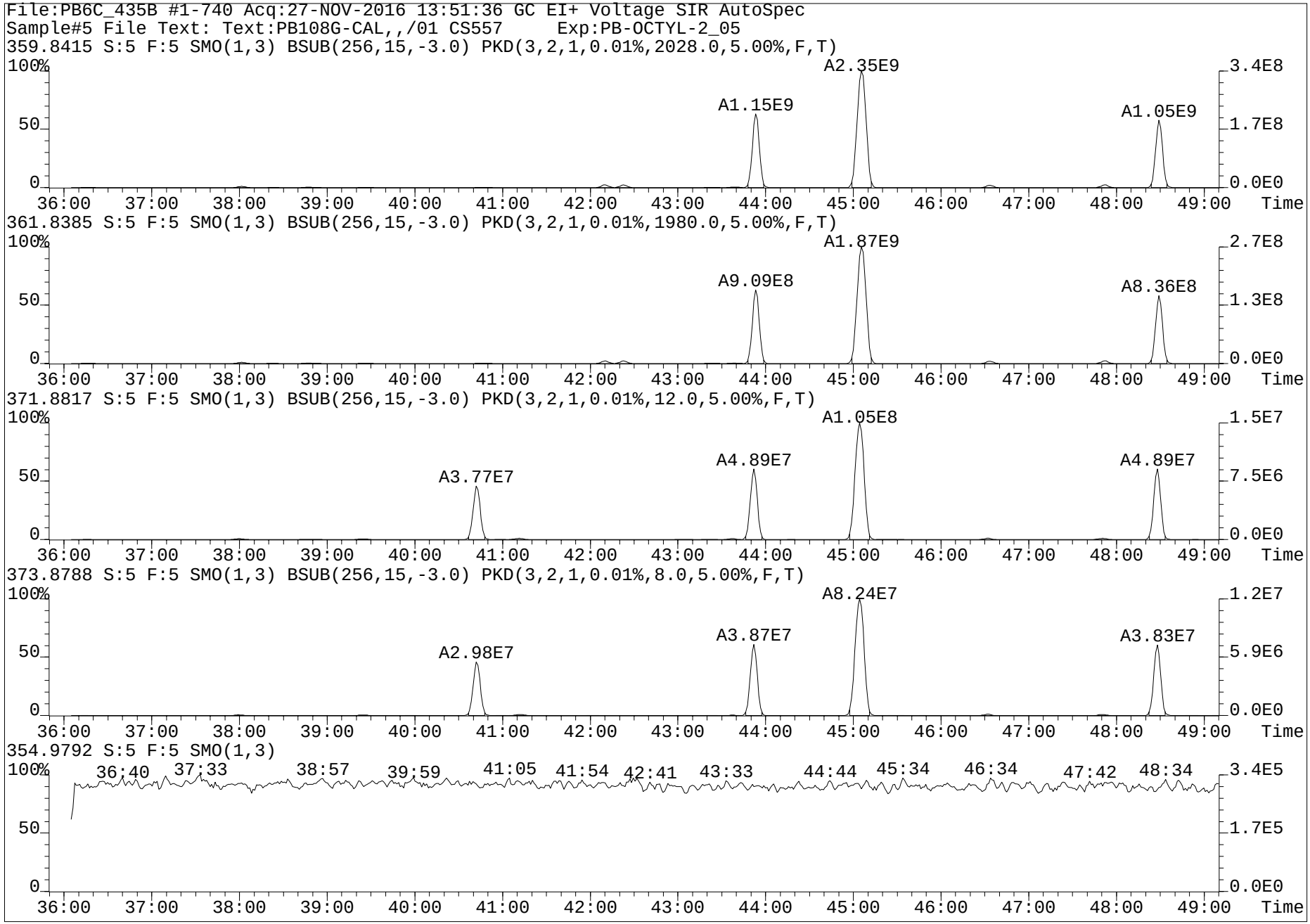

File:PB6C_435B #1-516 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
289.9224 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6792.0,5.00%,F,T)
100% A1.18E9
2.8E8
1.4E8
0.0E0
291.9199 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10804.0,5.00%,F,T)
100% A1.49E9
3.5E8
1.7E8
0.0E0
301.9626 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1588.0,5.00%,F,T)
100% A5.40E7
A3.80E7
1.2E7
6.2E6
0.0E0
303.9597 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1408.0,5.00%,F,T)
100% A6.83E7
A4.80E7
1.6E7
7.8E6
0.0E0
280.9825 S:5 F:3 SMO(1,3)
100% 20:19 20:55 21:25 21:49 22:45 23:14 23:42 24:11 24:38 25:05 25:34 26:16 26:39 27:02 27:39
2.4E6
1.2E6
0.0E0
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

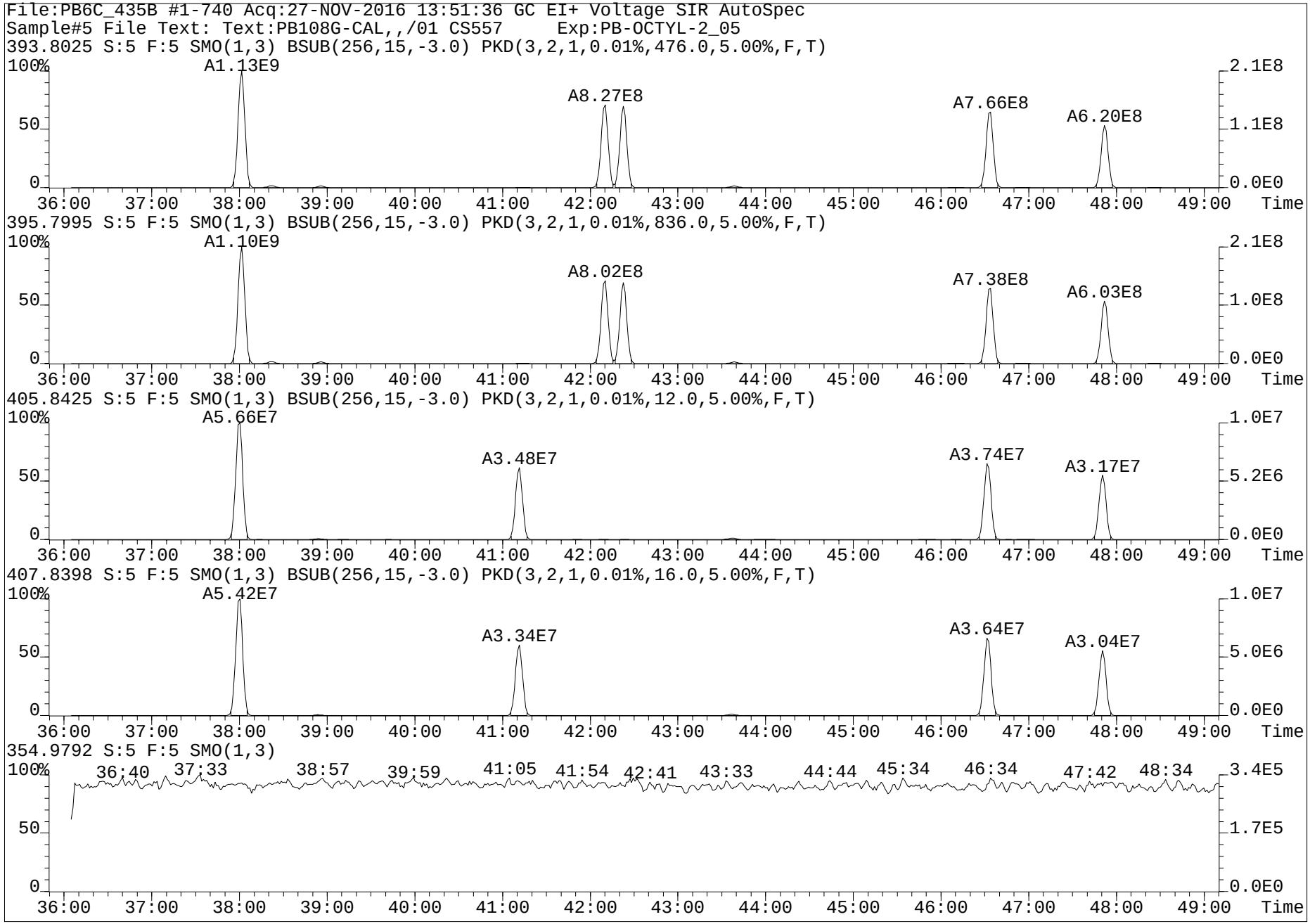

File:PB6C_435B #1-475 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
289.9224 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1968.0,5.00%,F,T)
A1.18E9 A1.19E9
291.9194 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3148.0,5.00%,F,T)
A1.51E9 A1.52E9
301.9626 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1536.0,5.00%,F,T)
A5.47E7 A5.46E7
303.9597 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1064.0,5.00%,F,T)
A7.03E7 A7.08E7
330.9792 S:5 F:4 SMO(1,3)
28:20 28:54 29:19 29:54 30:26 30:56 31:38 32:12 32:44 33:16 34:03 34:52 35:27 35:58
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
2.3E8 1.2E8 0.0E0
3.0E8 1.5E8 0.0E0
1.1E7 5.4E6 0.0E0
1.4E7 6.9E6 0.0E0
1.5E6 7.4E5 0.0E0

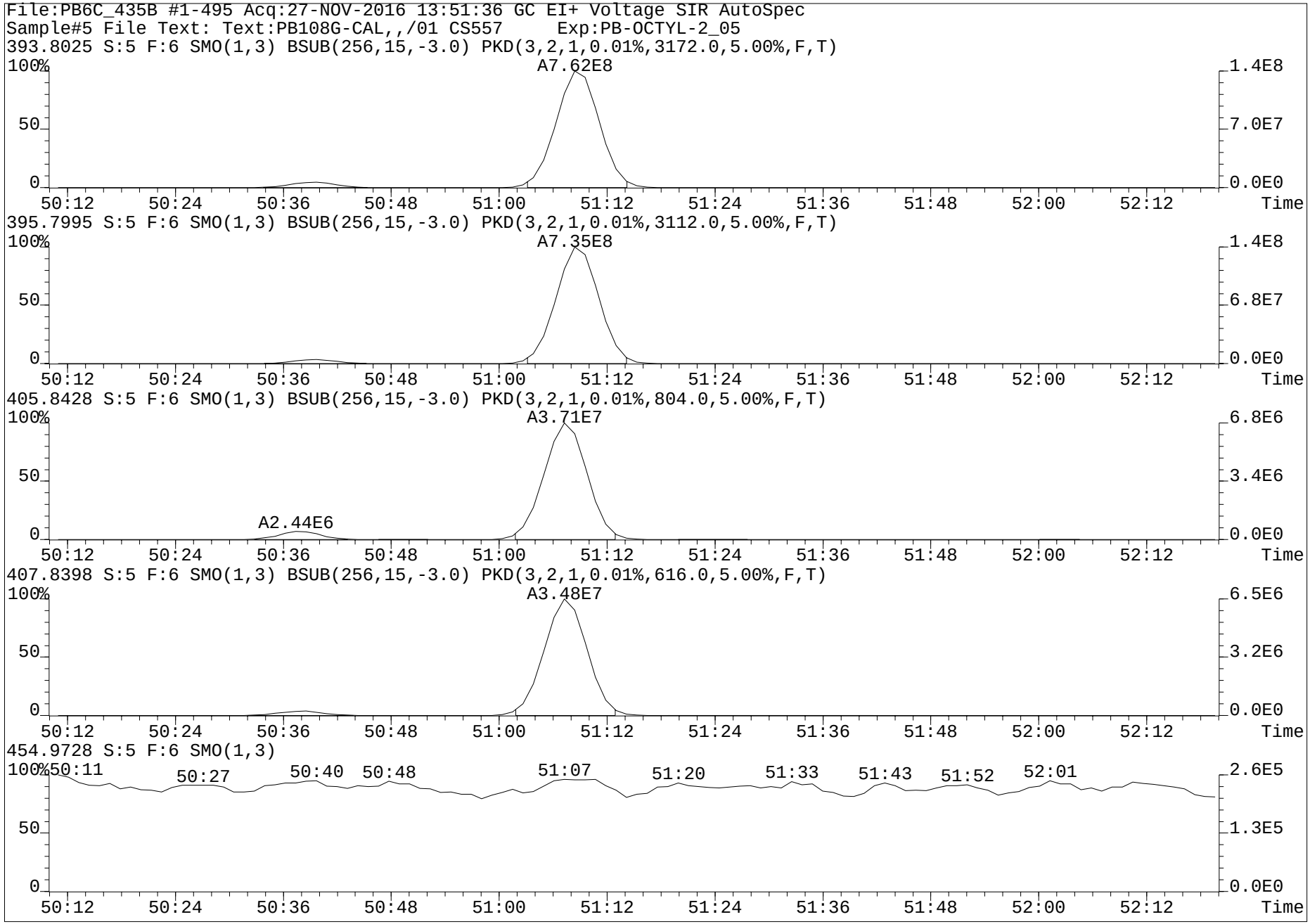

File:PB6C_435B #1-516 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
325.8804 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A1.54E9
327.8775 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A9.79E8
337.9207 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A6.86E7
339.9178 S:5 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A4.48E7
280.9825 S:5 F:3 SMO(1,3)
20:19 20:55 21:25 21:49 22:45 23:14 23:42 24:11 24:38 25:05 25:34 26:16 26:39 27:02 27:39
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
3.3E8 1.6E8 0.0E0
2.1E8 1.0E8 0.0E0
1.4E7 7.2E6 0.0E0
9.5E6 4.8E6 0.0E0
2.4E6 1.2E6 0.0E0

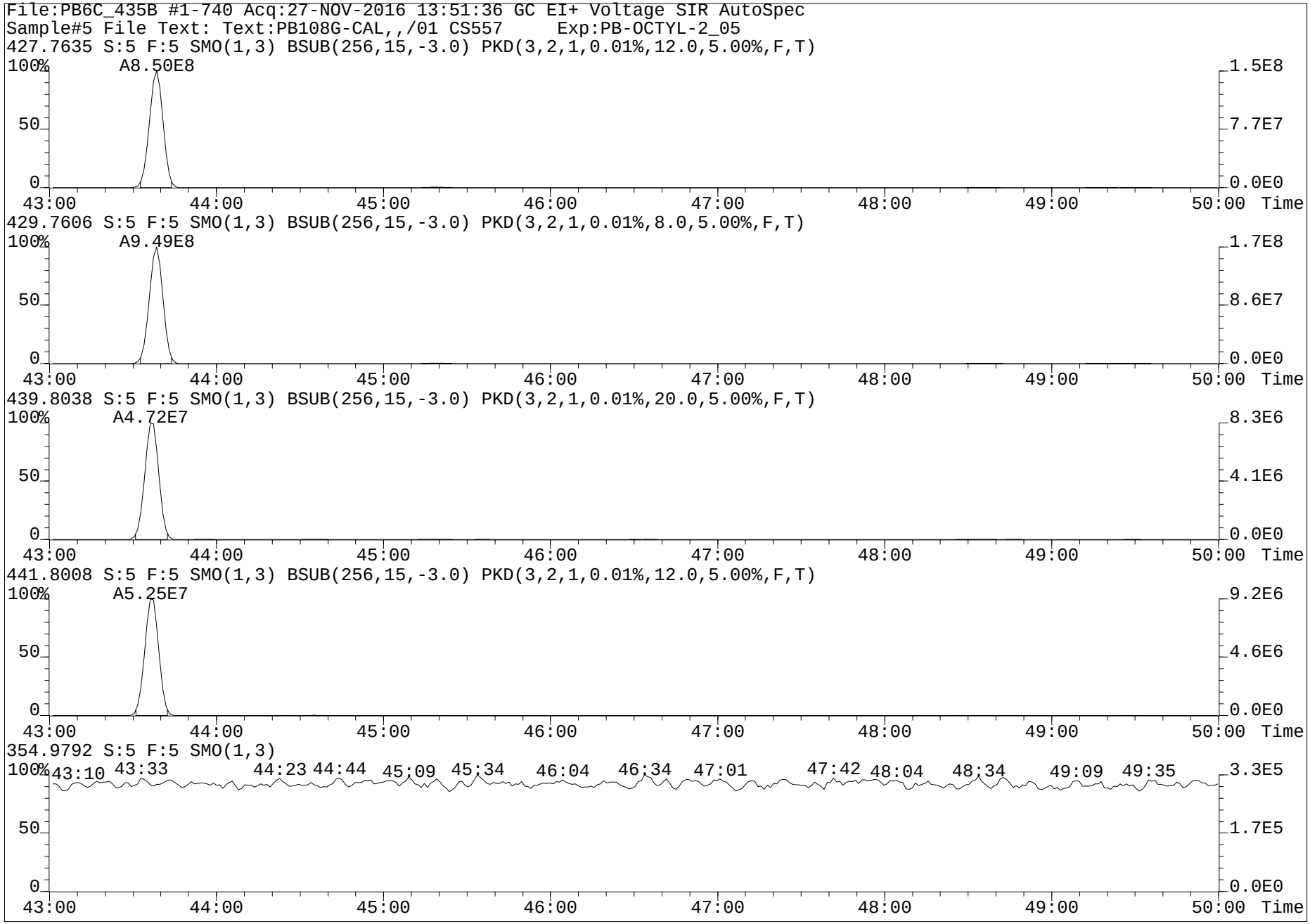

File:PB6C_435B #1-740 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
325.8804 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,15924.0,5.00%,F,T)
A1.37E9
A1.40E9
A1.33E9
A1.25E9
327.8775 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,13364.0,5.00%,F,T)
A8.78E8
A9.03E8
A8.58E8
A8.05E8
337.9207 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,944.0,5.00%,F,T)
A6.45E7
A6.27E7
A6.24E7
A5.78E7
339.9178 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,568.0,5.00%,F,T)
A4.07E7
A3.95E7
A3.95E7
A3.66E7
354.9792 S:5 F:5 SMO(1,3)
36:40
37:09
37:33
38:01
38:33
38:57
39:37
39:59
40:22
41:05
41:54
42:41
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
2.7E8
1.3E8
0.0E0
1.7E8
8.6E7
1.2E7
6.0E6
7.6E6
3.8E6
3.4E5
1.7E5

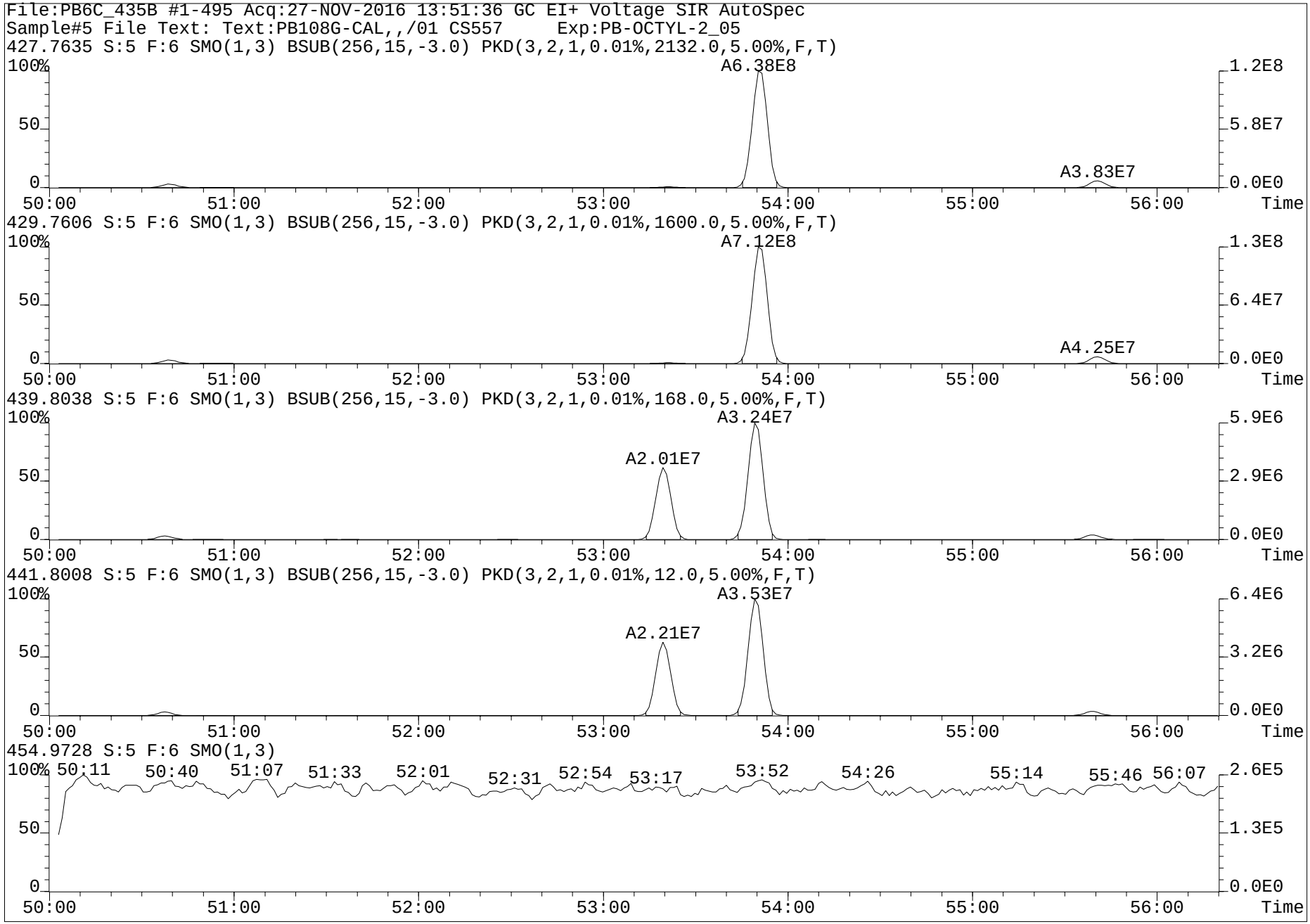

File:PB6C_435B #1-475 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
359.8415 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A1.45E9
361.8385 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A1.15E9
371.8817 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A6.74E7
373.8788 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A5.44E7
330.9792 S:5 F:4 SMO(1,3)
31:21 31:38 32:12 32:44 33:16 33:39 34:03 34:28 34:52 35:08 35:27 35:58
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time
2.8E8 1.4E8 0.0E0
2.2E8 1.1E8 0.0E0
1.3E7 6.5E6 0.0E0
1.0E7 5.2E6 0.0E0
1.5E6 7.4E5 0.0E0

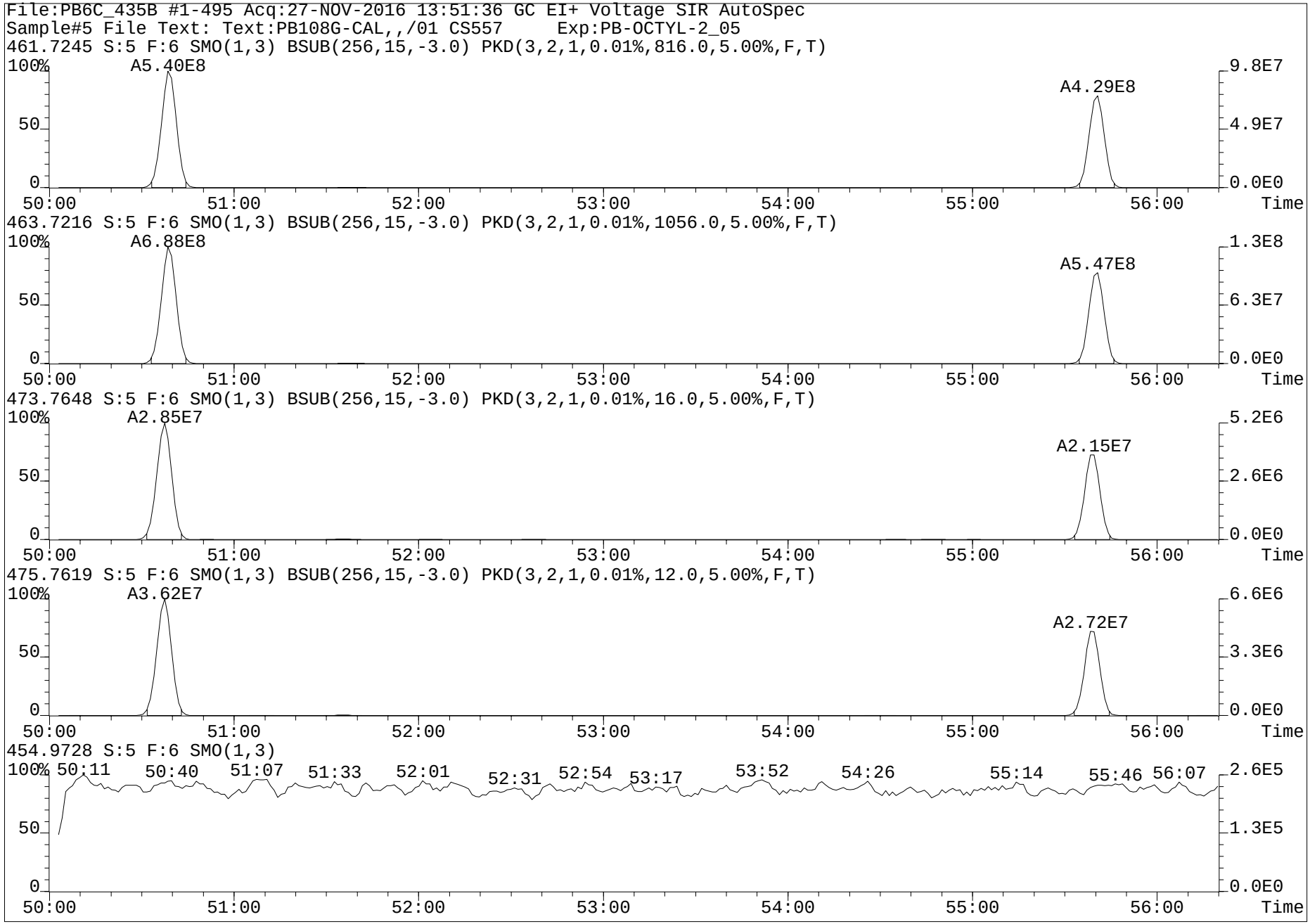

File:PB6C_435B #1-740 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
359.8415 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2028.0,5.00%,F,T)
A1.15E9
A2.35E9
A1.05E9
361.8385 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1980.0,5.00%,F,T)
A9.09E8
A1.87E9
A8.36E8
371.8817 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.77E7
A4.89E7
A1.05E8
A4.89E7
373.8788 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.98E7
A3.87E7
A8.24E7
A3.83E7
354.9792 S:5 F:5 SMO(1,3)
36:40 37:33 38:57 39:59 41:05 41:54 42:41 43:33 44:44 45:34 46:34 47:42 48:34
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
3.4E8
1.7E8
0.0E0
2.7E8
1.3E8
1.5E7
7.5E6
1.2E7
5.9E6
3.4E5
1.7E5

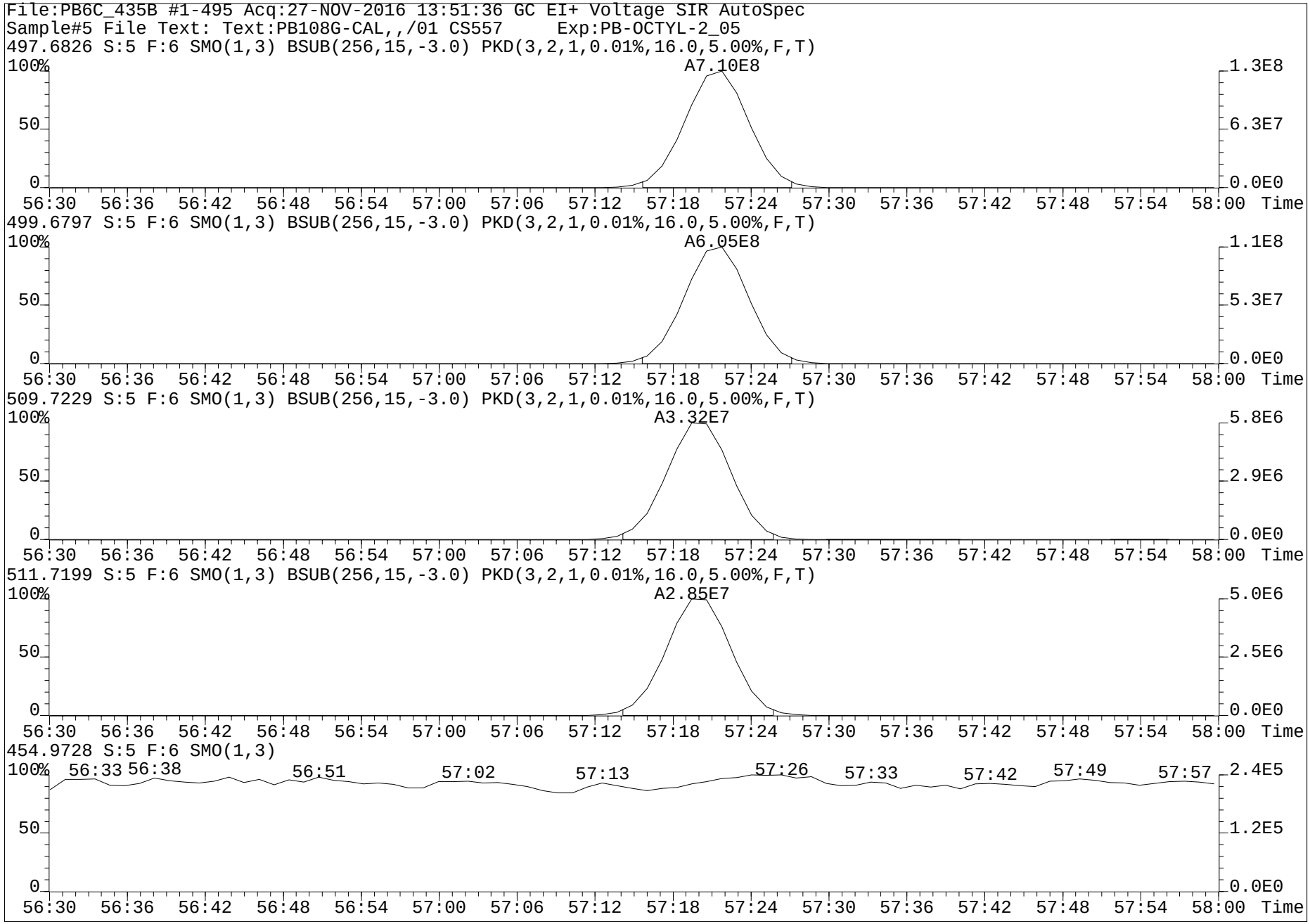

File:PB6C_435B #1-740 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
393.8025 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,476.0,5.00%,F,T)
A1.13E9
A8.27E8
A7.66E8
A6.20E8
395.7995 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,836.0,5.00%,F,T)
A1.10E9
A8.02E8
A7.38E8
A6.03E8
405.8425 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.66E7
A3.48E7
A3.74E7
A3.17E7
407.8398 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A5.42E7
A3.34E7
A3.64E7
A3.04E7
354.9792 S:5 F:5 SMO(1,3)
36:40 37:33 38:57 39:59 41:05 41:54 42:41 43:33 44:44 45:34 46:34 47:42 48:34
100%
50
0
2.1E8
1.1E8
0.0E0
1.0E8
1.0E7
5.2E6
5.0E6
3.4E5
1.7E5
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

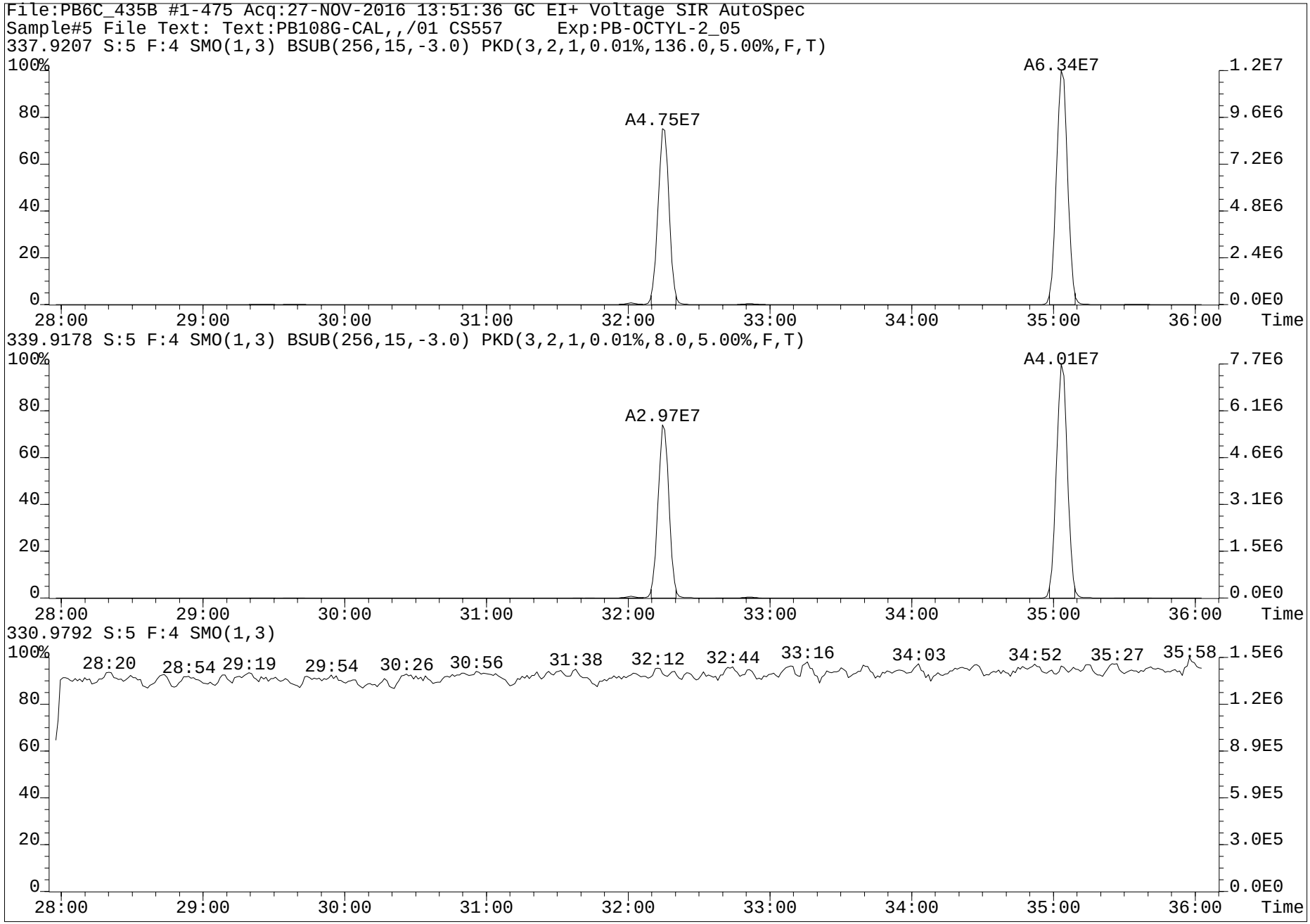

File:PB6C_435B #1-495 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
393.8025 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3172.0,5.00%,F,T)
A7.62E8
395.7995 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3112.0,5.00%,F,T)
A7.35E8
405.8428 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,804.0,5.00%,F,T)
A3.71E7
A2.44E6
407.8398 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,616.0,5.00%,F,T)
A3.48E7
454.9728 S:5 F:6 SMO(1,3)
50:11
50:27
50:40
50:48
51:07
51:20
51:33
51:43
51:52
52:01
100%
50
0
1.4E8
7.0E7
0.0E0
6.8E7
6.8E6
3.4E6
6.5E6
3.2E6
2.6E5
1.3E5
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB6C_435B #1-740 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
427.7635 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A8.50E8
1.5E8
7.7E7
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
429.7606 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
100% A9.49E8
1.7E8
8.6E7
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
439.8038 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20.0,5.00%,F,T)
100% A4.72E7
8.3E6
4.1E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
441.8008 S:5 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A5.25E7
9.2E6
4.6E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
354.9792 S:5 F:5 SMO(1,3)
100% 43:10 43:33 44:23 44:44 45:09 45:34 46:04 46:34 47:01 47:42 48:04 48:34 49:09 49:35
3.3E5
1.7E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-495 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
427.7635 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2132.0,5.00%,F,T)
A6.38E8
A3.83E7
429.7606 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1600.0,5.00%,F,T)
A7.12E8
A4.25E7
439.8038 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A3.24E7
A2.01E7
441.8008 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.53E7
A2.21E7
454.9728 S:5 F:6 SMO(1,3)
50:11 50:40 51:07 51:33 52:01 52:31 52:54 53:17 53:52 54:26 55:14 55:46 56:07
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
1.2E8 5.8E7 0.0E0
1.3E8 6.4E7 0.0E0
5.9E6 2.9E6 0.0E0
6.4E6 3.2E6 0.0E0
2.6E5 1.3E5 0.0E0


File:PB6C_435B #1-495 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
461.7245 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,816.0,5.00%,F,T)
A5.40E8
A4.29E8
463.7216 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1056.0,5.00%,F,T)
A6.88E8
A5.47E8
473.7648 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A2.85E7
A2.15E7
475.7619 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.62E7
A2.72E7
454.9728 S:5 F:6 SMO(1,3)
50:11 50:40 51:07 51:33 52:01 52:31 52:54 53:17 53:52 54:26 55:14 55:46 56:07
100%
50
0
50:00 51:00 52:00 53:00 54:00 55:00 56:00 Time
9.8E7
4.9E7
0.0E0
1.3E8
6.3E7
5.2E6
2.6E6
6.6E6
3.3E6
2.6E5
1.3E5


File:PB6C_435B #1-495 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
497.6826 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A7.10E8
1.3E8
6.3E7
0.0E0
499.6797 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A6.05E8
1.1E8
5.3E7
0.0E0
509.7229 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A3.32E7
5.8E6
2.9E6
0.0E0
511.7199 S:5 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A2.85E7
5.0E6
2.5E6
0.0E0
454.9728 S:5 F:6 SMO(1,3)
56:33 56:38 56:51 57:02 57:13 57:26 57:33 57:42 57:49 57:57
2.4E5
1.2E5
0.0E0
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time


File:PB6C_435B #1-475 Acq:27-NOV-2016 13:51:36 GC EI+ Voltage SIR AutoSpec
Sample#5 File Text: Text:PB108G-CAL,,/01 CS557 Exp:PB-OCTYL-2_05
337.9207 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A4.75E7
A6.34E7
339.9178 S:5 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A2.97E7
A4.01E7
330.9792 S:5 F:4 SMO(1,3)
28:20
28:54
29:19
29:54
30:26
30:56
31:38
32:12
32:44
33:16
34:03
34:52
35:27
35:58
Time

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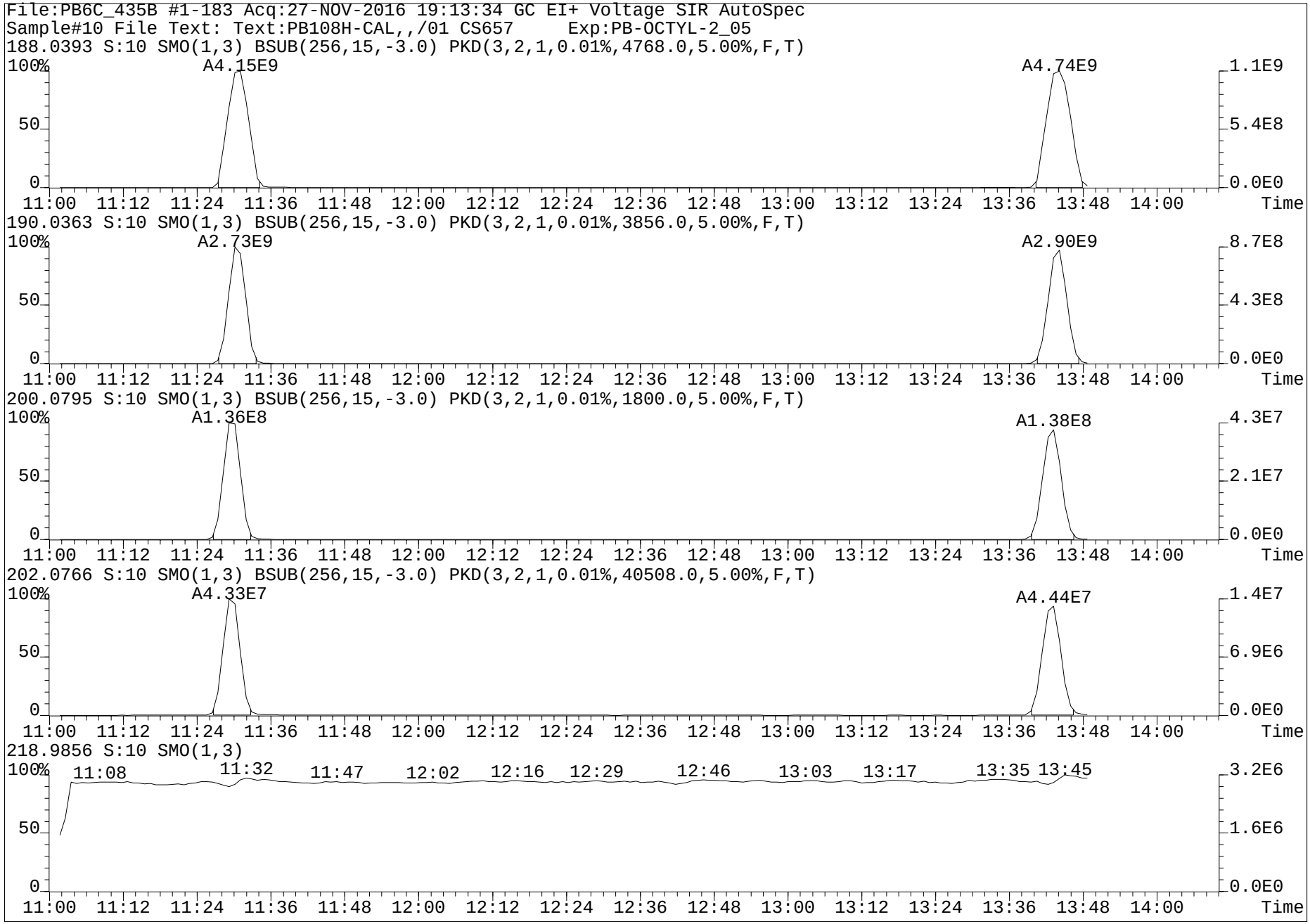


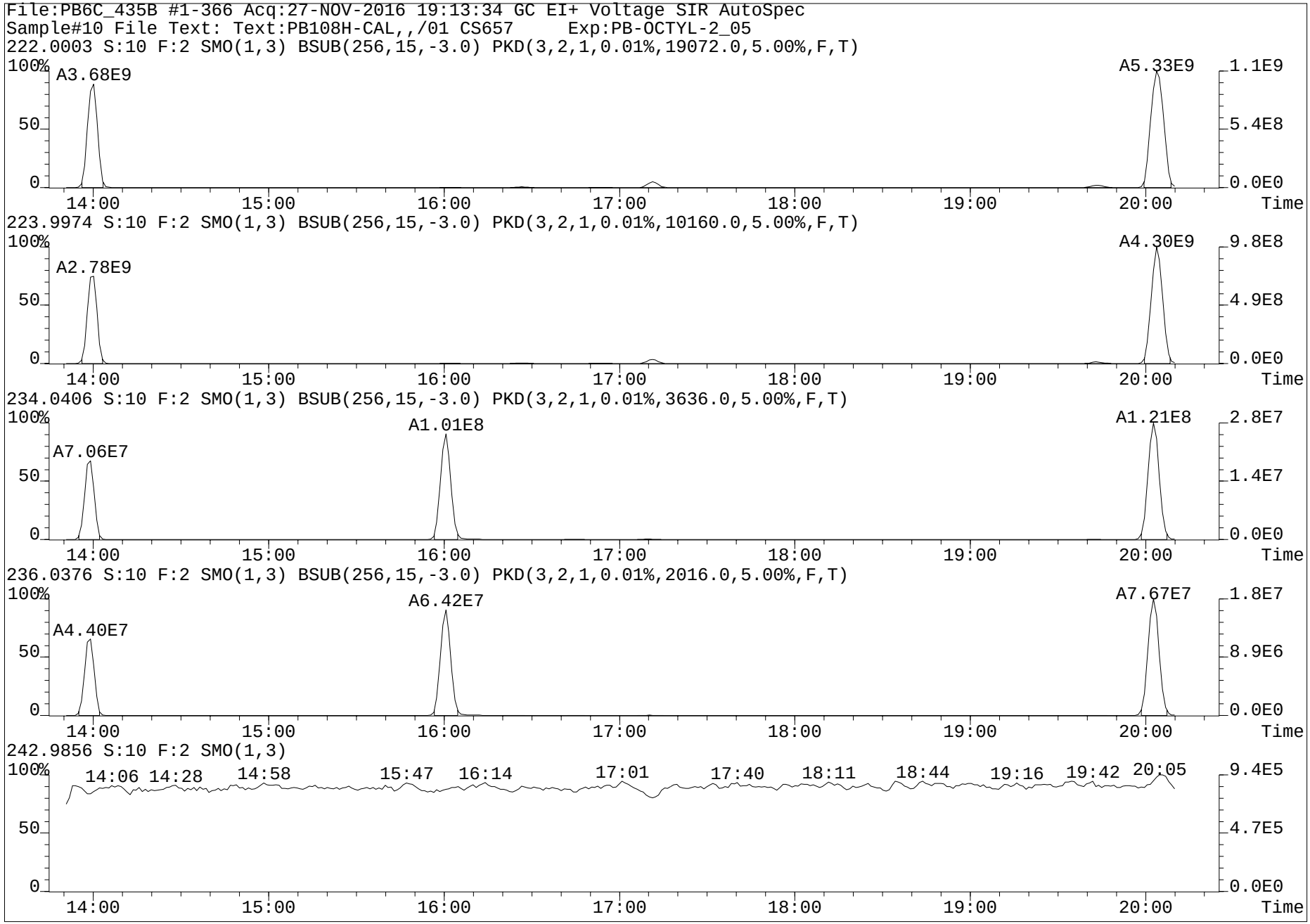
Run #7 Filename PB6C_435B S: 10 I: 1 Acquired: 27-NOV-16 19:13:34 Processed: 28-NOV-16 14:50:12
Run: pb6c_435b-7A Analyte: 1668A-C8 Cal: pb6c_435b-7a Results: pb6c_435b-7a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB108H-CAL,,/01 CS657 Comments: 1,,1.0uL CS-6 F1: 6000.00 F2: 1.00

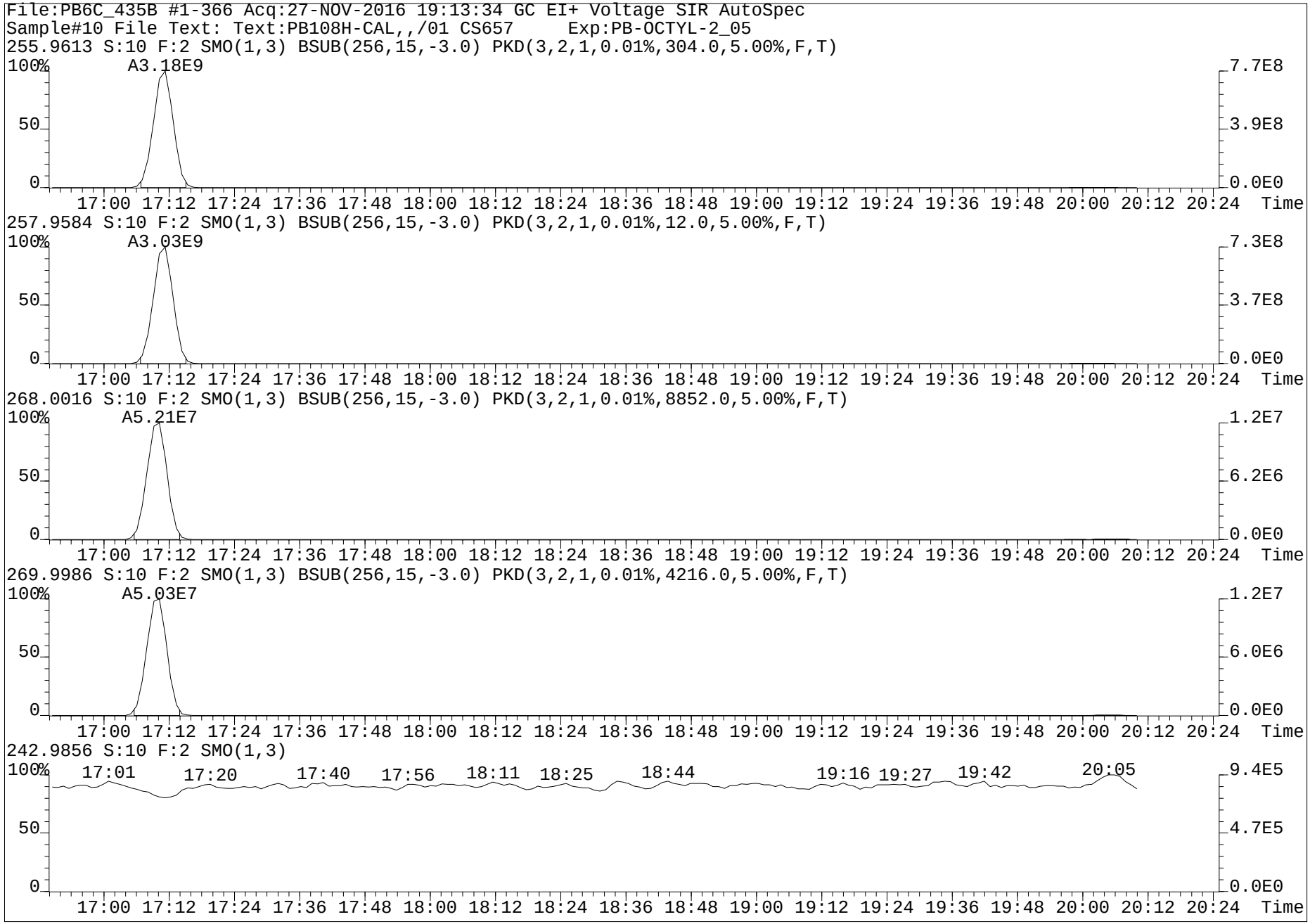
| | Typ | Name | Amount | Resp | RA | | RT | | RF | RRF | | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 6000.00 | * | * | n | NotF» | | - | * | n | n |
| 2 | Unk | CL1-PCB-3 | 6000.00 | * | * | n | NotF» | | - | * | n | n |
| 3 | Unk | CL2-PCB-4 | 6000.00 | * | * | n | NotF» | | - | * | n | n |
| 4 | Unk | CL2-PCB-15 | 6000.00 | * | * | n | NotF» | | - | * | n | n |
| 5 | Unk | CL3-PCB-19 | 6000.00 | 6.20e+09 | 1.05 | y | 17:11 | | - | 1.0090 | y | n |
| 6 | Unk | CL3-PCB-37 | 6000.00 | 1.01e+10 | 1.03 | y | 27:22 | | - | 1.0020 | y | n |
| 7 | Unk | CL4-PCB-54 | 6000.00 | 8.02e+09 | 0.81 | y | 20:22 | | - | 1.0350 | y | n |
| 8 | Unk | CL4-PCB-81 | 6000.00 | 8.37e+09 | 0.78 | y | 34:26 | | - | 1.0329 | y | n |
| 9 | Unk | CL4-PCB-77 | 6000.00 | 8.48e+09 | 0.79 | y | 35:01 | | - | 1.0361 | y | n |
| 10 | Unk | CL5-PCB-104 | 6000.00 | 7.64e+09 | 1.55 | y | 26:06 | | - | 1.0593 | y | n |
| 11 | Unk | CL5-PCB-123 | 6000.00 | 6.54e+09 | 1.57 | y | 37:07 | | - | 1.0100 | y | n |
| 12 | Unk | CL5-PCB-118 | 6000.00 | 6.83e+09 | 1.56 | y | 37:28 | | - | 1.0707 | y | n |
| 13 | Unk | CL5-PCB-114 | 6000.00 | 7.07e+09 | 1.56 | y | 38:01 | | - | 1.1041 | y | n |
| 14 | Unk | CL5-PCB-105 | 6000.00 | 6.76e+09 | 1.55 | y | 38:41 | | - | 1.0642 | y | n |
| 15 | Unk | CL5-PCB-126 | 6000.00 | 6.41e+09 | 1.56 | y | 41:56 | | - | 1.0666 | y | n |
| 16 | Unk | CL6-PCB-155 | 6000.00 | 7.58e+09 | 1.25 | y | 32:01 | | - | 1.0194 | y | n |
| 17 | Unk | CL6-PCB-167 | 6000.00 | 6.27e+09 | 1.26 | y | 43:53 | | - | 1.1415 | y | n |
| 18 | Unk | CL6-PCB-156/157 | 12000.00 | 1.32e+10 | 1.24 | y | 45:06 | | - | 1.1034 | y | n |
| 19 | Unk | CL6-PCB-169 | 6000.00 | 6.07e+09 | 1.26 | y | 48:29 | | - | 1.0611 | y | n |
| 20 | Unk | CL7-PCB-188 | 6000.00 | 6.54e+09 | 1.03 | y | 38:01 | | - | 0.9681 | y | n |
| 21 | Unk | CL7-PCB-189 | 6000.00 | 4.83e+09 | 1.04 | y | 51:09 | | - | 1.0358 | y | n |
| 22 | Unk | CL8-PCB-202 | 6000.00 | 5.26e+09 | 0.89 | y | 43:38 | | - | 0.8829 | y | n |
| 23 | Unk | CL8-PCB-205 | 6000.00 | 4.24e+09 | 0.90 | y | 53:51 | | - | 0.9756 | y | n |
| 24 | Unk | CL9-PCB-208 | 6000.00 | 3.72e+09 | 0.79 | y | 50:39 | | - | 0.9403 | y | n |
| 25 | Unk | CL9-PCB-206 | 6000.00 | 3.03e+09 | 0.78 | y | 55:40 | | - | 0.9715 | y | n |
| 26 | Unk | CL10-PCB-209 | 6000.00 | 4.05e+09 | 1.17 | y | 57:21 | | - | 1.0524 | y | n |
| 27 | IS | 13C-CL1-PCB-1 | 100.00 | 1.79e+08 | 3.14 | y | 11:29 | | - | 1.0838 | y | n |
| 28 | IS | 13C-CL1-PCB-3 | 100.00 | 1.82e+08 | 3.10 | y | 13:43 | | - | 1.1021 | y | n |
| 29 | IS | 13C-CL2-PCB-4 | 100.00 | 1.15e+08 | 1.61 | y | 13:59 | | - | 0.6936 | y | n |
| 30 | IS | 13C-CL2-PCB-15 | 100.00 | 1.97e+08 | 1.57 | y | 20:03 | | - | 1.1944 | y | n |
| 31 | IS | 13C-CL3-PCB-19 | 100.00 | 1.02e+08 | 1.04 | y | 17:10 | | - | 0.6201 | y | n |
| 32 | IS | 13C-CL3-PCB-37 | 100.00 | 1.68e+08 | 1.07 | y | 27:21 | | - | 1.9427 | y | n |
| 33 | REF | 13C-CL4-CHECK | 100.00 | 1.29e+08 | 0.81 | y | 20:21 | | - | 1.4948 | y | n |
| 34 | IS | 13C-CL4-PCB-81 | 100.00 | 1.35e+08 | 0.79 | y | 34:25 | | - | 1.5644 | y | n |
| 35 | IS | 13C-CL4-PCB-77 | 100.00 | 1.36e+08 | 0.79 | y | 35:00 | | - | 1.5796 | y | n |
| 36 | IS | 13C-CL5-PCB-104 | 100.00 | 1.20e+08 | 1.61 | y | 26:04 | | - | 1.6453 | y | n |
| 37 | IS | 13C-CL5-PCB-123 | 100.00 | 1.08e+08 | 1.56 | y | 37:06 | | - | 1.4779 | y | n |
| 38 | IS | 13C-CL5-PCB-118 | 100.00 | 1.06e+08 | 1.57 | y | 37:27 | | - | 1.4552 | y | n |
| 39 | IS | 13C-CL5-PCB-114 | 100.00 | 1.07e+08 | 1.58 | y | 38:00 | | - | 1.4608 | y | n |
| 40 | IS | 13C-CL5-PCB-105 | 100.00 | 1.06e+08 | 1.58 | y | 38:40 | | - | 1.4496 | y | n |
| 41 | IS | 13C-CL5-PCB-126 | 100.00 | 1.00e+08 | 1.56 | y | 41:54 | | - | 1.3726 | y | n |
| 42 | IS | 13C-CL6-PCB-155 | 100.00 | 1.24e+08 | 1.25 | y | 32:00 | | - | 2.0375 | y | n |
| 43 | IS | 13C-CL6-PCB-167 | 100.00 | 9.16e+07 | 1.27 | y | 43:51 | | - | 1.5053 | y | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 200.00 | 1.99e+08 | 1.26 | y | 45:04 | | - | 1.6388 | y | n |

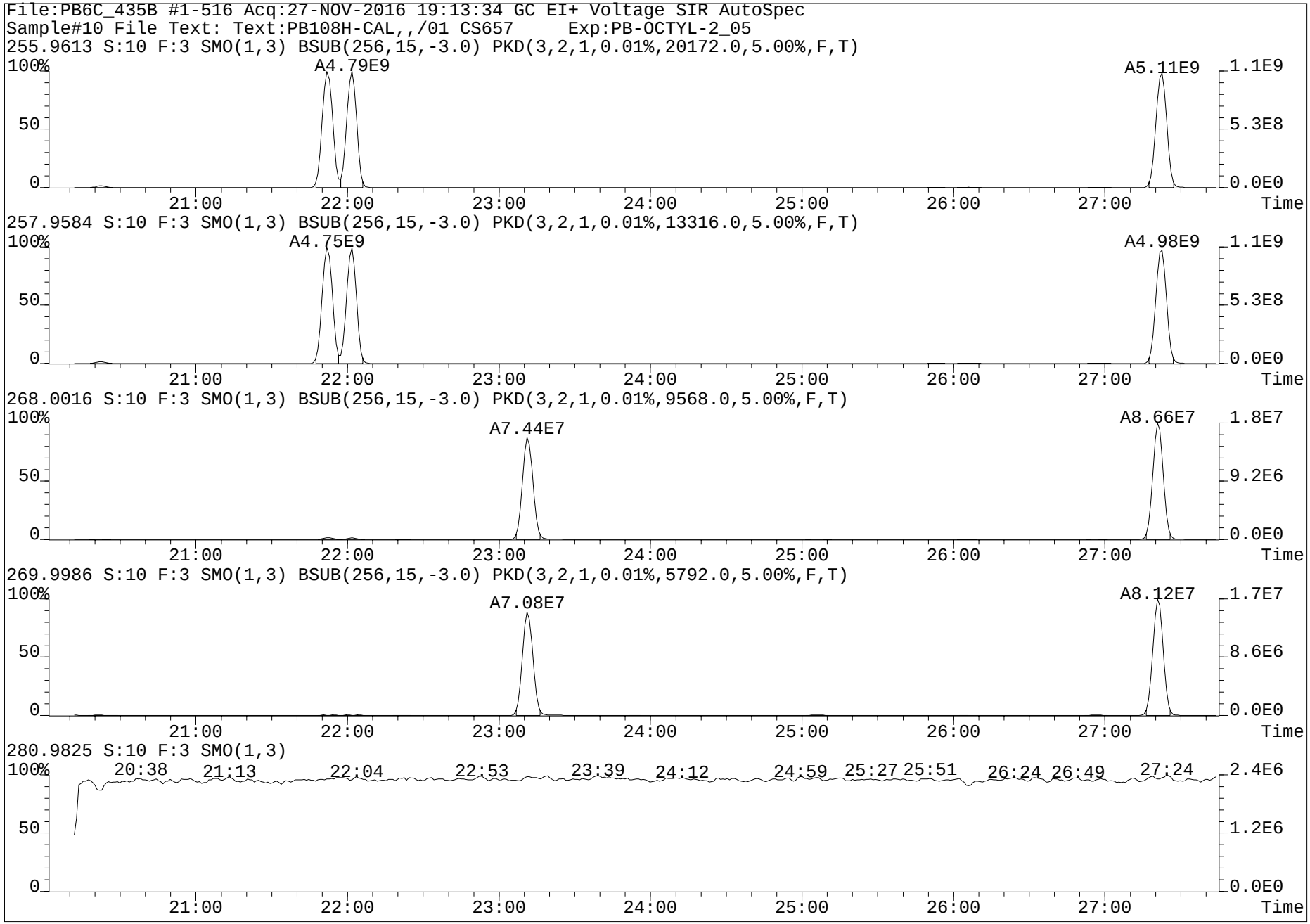
Sr: PA 29-Nov-16
Pr'd by PL 09 Jan 17

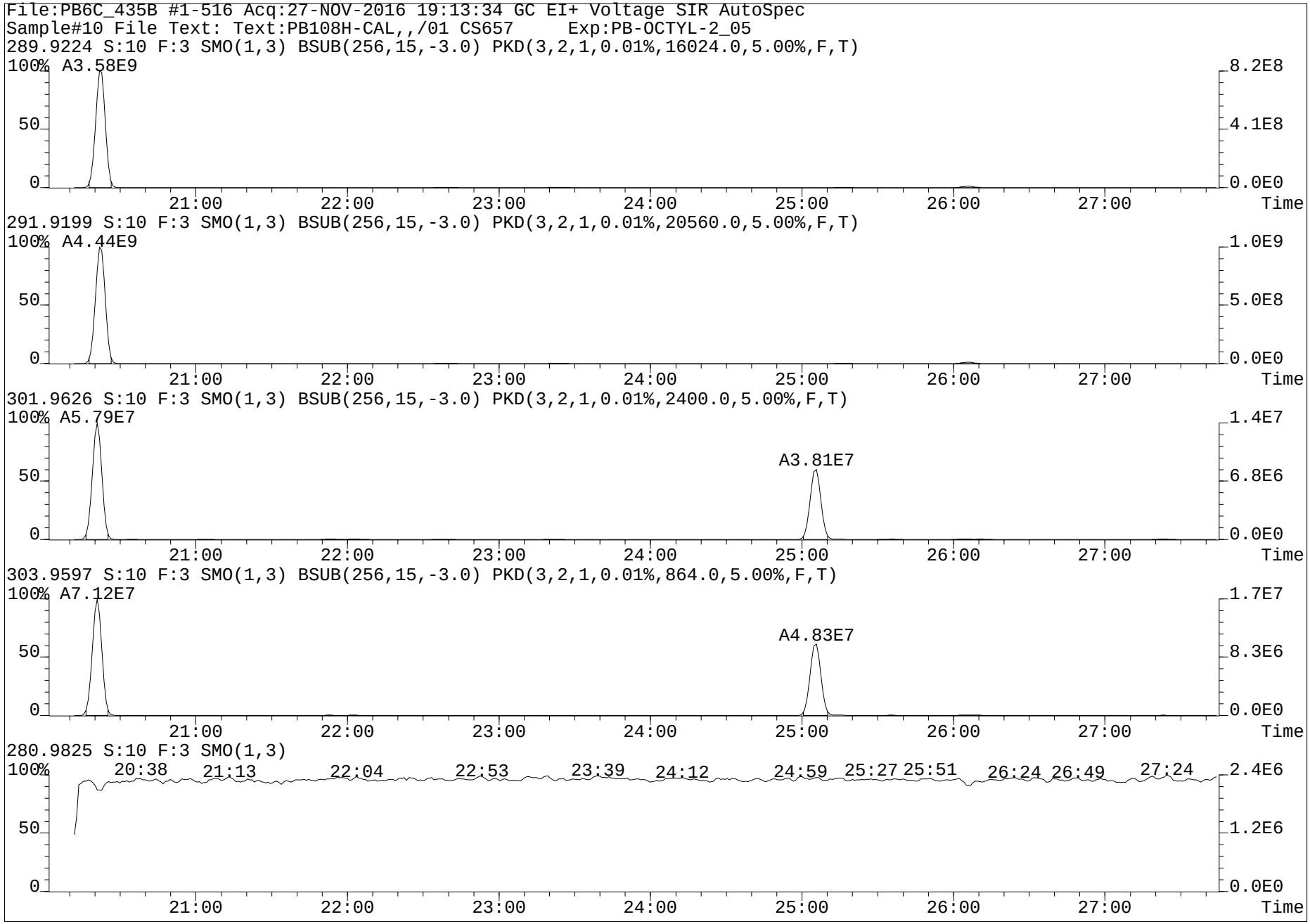
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 100.00 | 9.53e+07 | 1.27 y | 48:27 | - | 1.5662 | y | n |
| 46 | REF | 13C-CL7-CHECK | 100.00 | 1.13e+08 | 1.06 y | 37:59 | - | 3.0070 | y | n |
| 47 | IS | 13C-CL7-PCB-189 | 100.00 | 7.77e+07 | 1.06 y | 51:07 | - | 2.0738 | y | n |
| 48 | IS | 13C-CL8-PCB-202 | 100.00 | 9.93e+07 | 0.90 y | 43:37 | - | 2.6513 | y | n |
| 49 | IS | 13C-CL8-PCB-205 | 100.00 | 7.25e+07 | 0.91 y | 53:49 | - | 1.9367 | y | n |
| 50 | IS | 13C-CL9-PCB-208 | 100.00 | 6.60e+07 | 0.80 y | 50:37 | - | 1.7613 | y | n |
| 51 | IS | 13C-CL9-PCB-206 | 100.00 | 5.20e+07 | 0.81 y | 55:39 | - | 1.3889 | y | n |
| 52 | IS | 13C-CL10-PCB-209 | 100.00 | 6.42e+07 | 1.16 y | 57:20 | - | 1.7145 | y | n |
| 53 | RS | 13C-CL2-PCB-9 | 100.00 | 1.65e+08 | 1.57 y | 16:01 | 1.65e+06 | - | n | n |
| 54 | RS | 13C-CL4-PCB-52 | 100.00 | 8.63e+07 | 0.79 y | 25:05 | 8.63e+05 | - | n | n |
| 55 | RS | 13C-CL5-PCB-101 | 100.00 | 7.30e+07 | 1.57 y | 32:14 | 7.30e+05 | - | n | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 100.00 | 6.08e+07 | 1.29 y | 40:41 | 6.08e+05 | - | n | n |
| 57 | RS | 13C-CL8-PCB-194 | 100.00 | 3.74e+07 | 0.91 y | 53:19 | 3.74e+05 | - | n | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 100.00 | 1.45e+08 | 1.05 y | 23:11 | - | 1.6811 | y | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 100.00 | 1.02e+08 | 1.59 y | 35:03 | - | 1.3937 | y | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 100.00 | 5.97e+07 | 1.05 y | 41:11 | - | 0.9816 | y | n |
| 61 | IS | 13C-CL4-PCB-54 | 100.00 | 1.29e+08 | 0.81 y | 20:21 | - | 1.4948 | y | n |
| 62 | IS | 13C-CL7-PCB-188 | 100.00 | 1.13e+08 | 1.06 y | 37:59 | - | 3.0070 | y | n |
| 63 | LM | CL1-LOCK | 0.00 | - | | - | - | - | n | n |
| 64 | LM | CL2-LOCK | 0.00 | - | | - | - | - | n | n |
| 65 | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 66 | LM | CL3,4,5-LOCK | 0.00 | - | | - | - | - | n | n |
| 67 | LM | CL4,5-LOCK | 0.00 | - | | - | - | - | n | n |
| 68 | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 69 | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 70 | LM | CL6,7-LOCK | 0.00 | - | | - | - | - | n | n |
| 71 | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 72 | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 73 | LM | CL8,9-LOCK | 0.00 | - | | - | - | - | n | n |
| 74 | LM | CL10-LOCK | 0.00 | - | | - | - | - | n | n |

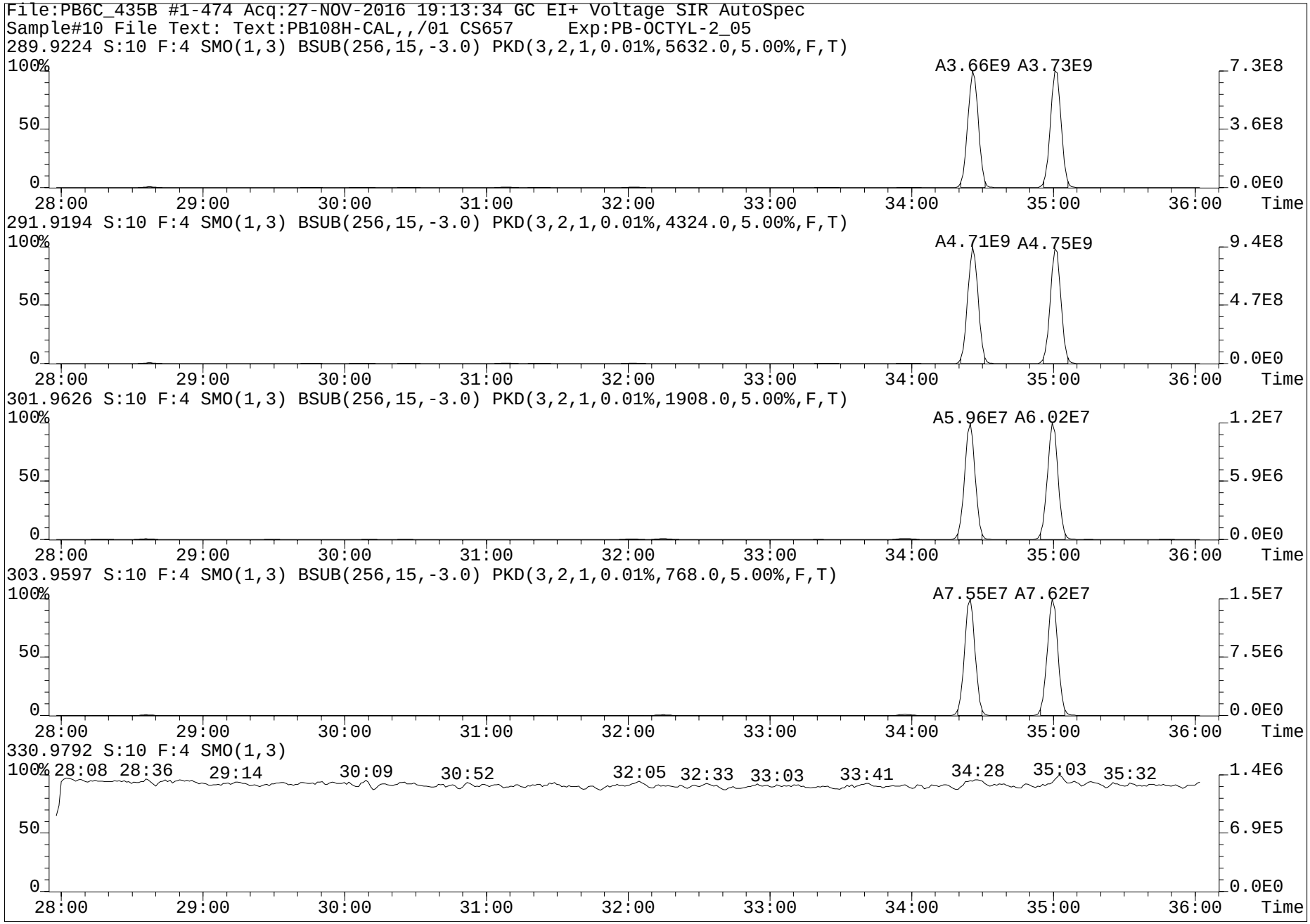

File:PB6C_435B #1-183 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
188.0393 S:10 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4768.0,5.00%,F,T)
A4.15E9
A4.74E9
1.1E9
5.4E8
0.0E0
190.0363 S:10 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3856.0,5.00%,F,T)
A2.73E9
A2.90E9
8.7E8
4.3E8
0.0E0
200.0795 S:10 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1800.0,5.00%,F,T)
A1.36E8
A1.38E8
4.3E7
2.1E7
0.0E0
202.0766 S:10 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,40508.0,5.00%,F,T)
A4.33E7
A4.44E7
1.4E7
6.9E6
0.0E0
218.9856 S:10 SMO(1,3)
11:08
11:32
11:47
12:02
12:16
12:29
12:46
13:03
13:17
13:35
13:45
3.2E6
1.6E6
0.0E0
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

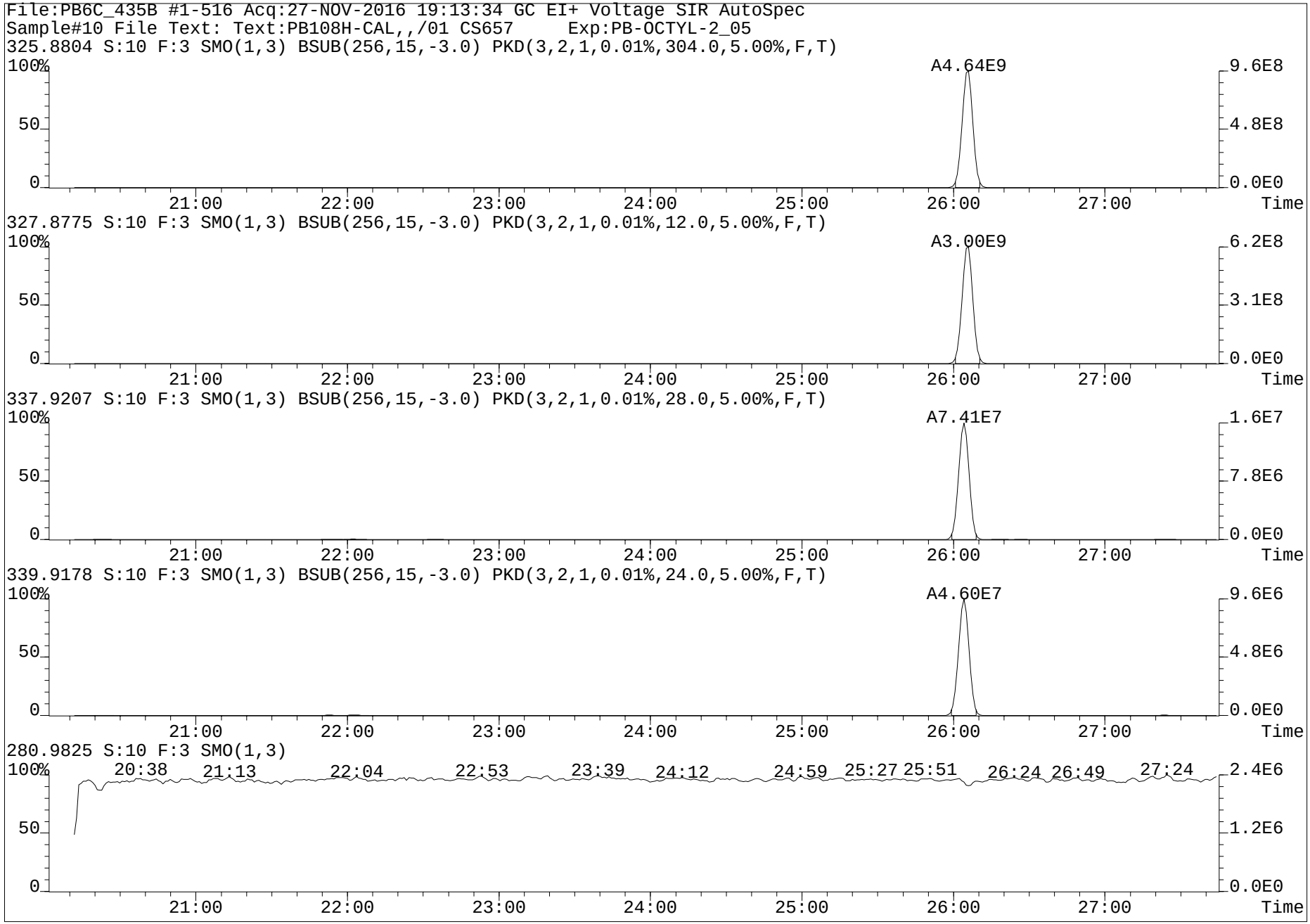

File:PB6C_435B #1-366 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
222.0003 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,19072.0,5.00%,F,T)
A3.68E9
A5.33E9
223.9974 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10160.0,5.00%,F,T)
A2.78E9
A4.30E9
234.0406 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3636.0,5.00%,F,T)
A7.06E7
A1.01E8
A1.21E8
236.0376 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2016.0,5.00%,F,T)
A4.40E7
A6.42E7
A7.67E7
242.9856 S:10 F:2 SMO(1,3)
14:06 14:28 14:58 15:47 16:14 17:01 17:40 18:11 18:44 19:16 19:42 20:05
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
1.1E9
5.4E8
0.0E0
9.8E8
4.9E8
2.8E7
1.4E7
1.8E7
8.9E6
9.4E5
4.7E5

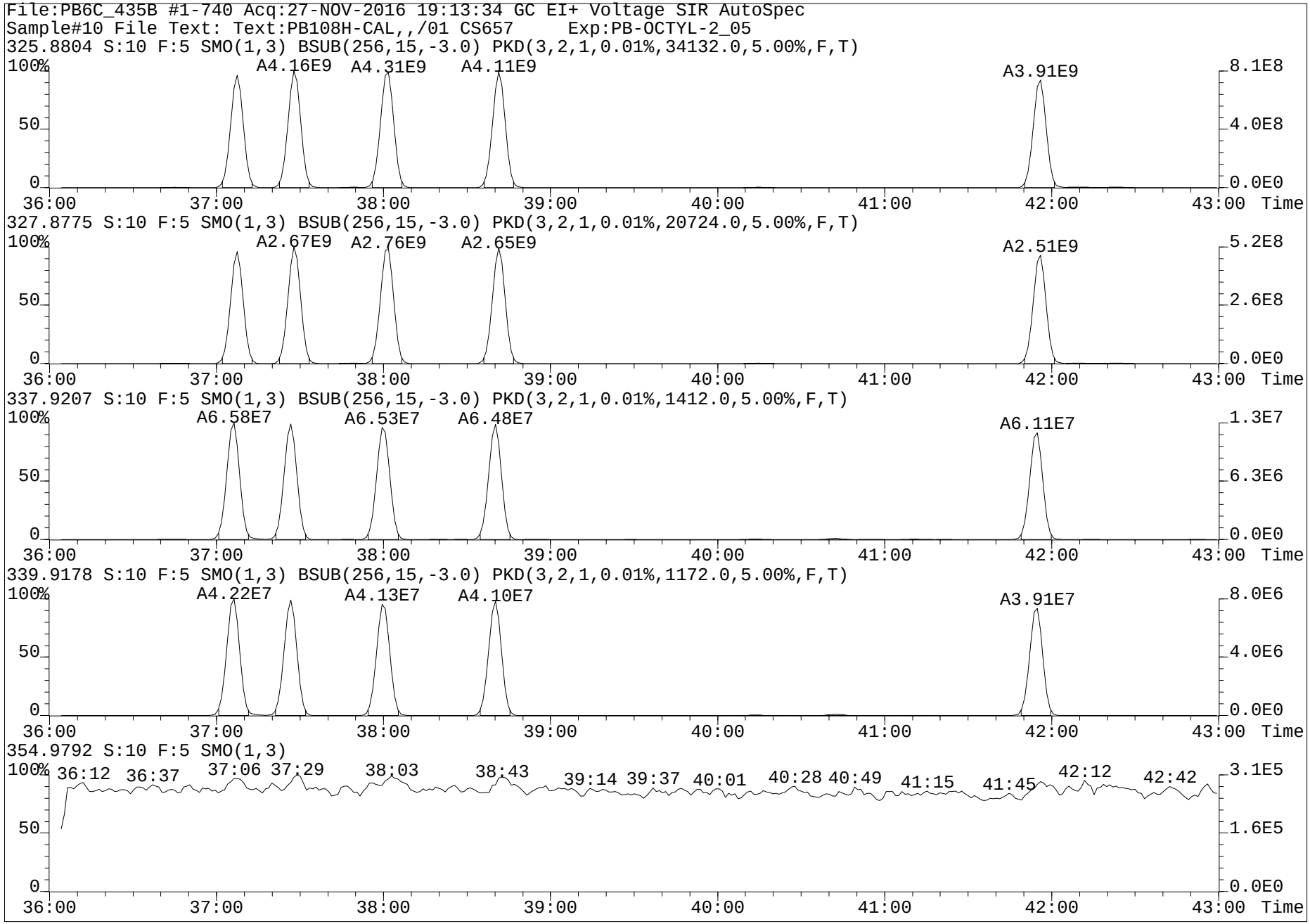

File:PB6C_435B #1-366 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
255.9613 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
100% A3.18E9
7.7E8
3.9E8
0.0E0
257.9584 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A3.03E9
7.3E8
3.7E8
0.0E0
268.0016 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8852.0,5.00%,F,T)
100% A5.21E7
1.2E7
6.2E6
0.0E0
269.9986 S:10 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4216.0,5.00%,F,T)
100% A5.03E7
1.2E7
6.0E6
0.0E0
242.9856 S:10 F:2 SMO(1,3)
100% 17:01 17:20 17:40 17:56 18:11 18:25 18:44 19:16 19:27 19:42 20:05
9.4E5
4.7E5
0.0E0
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

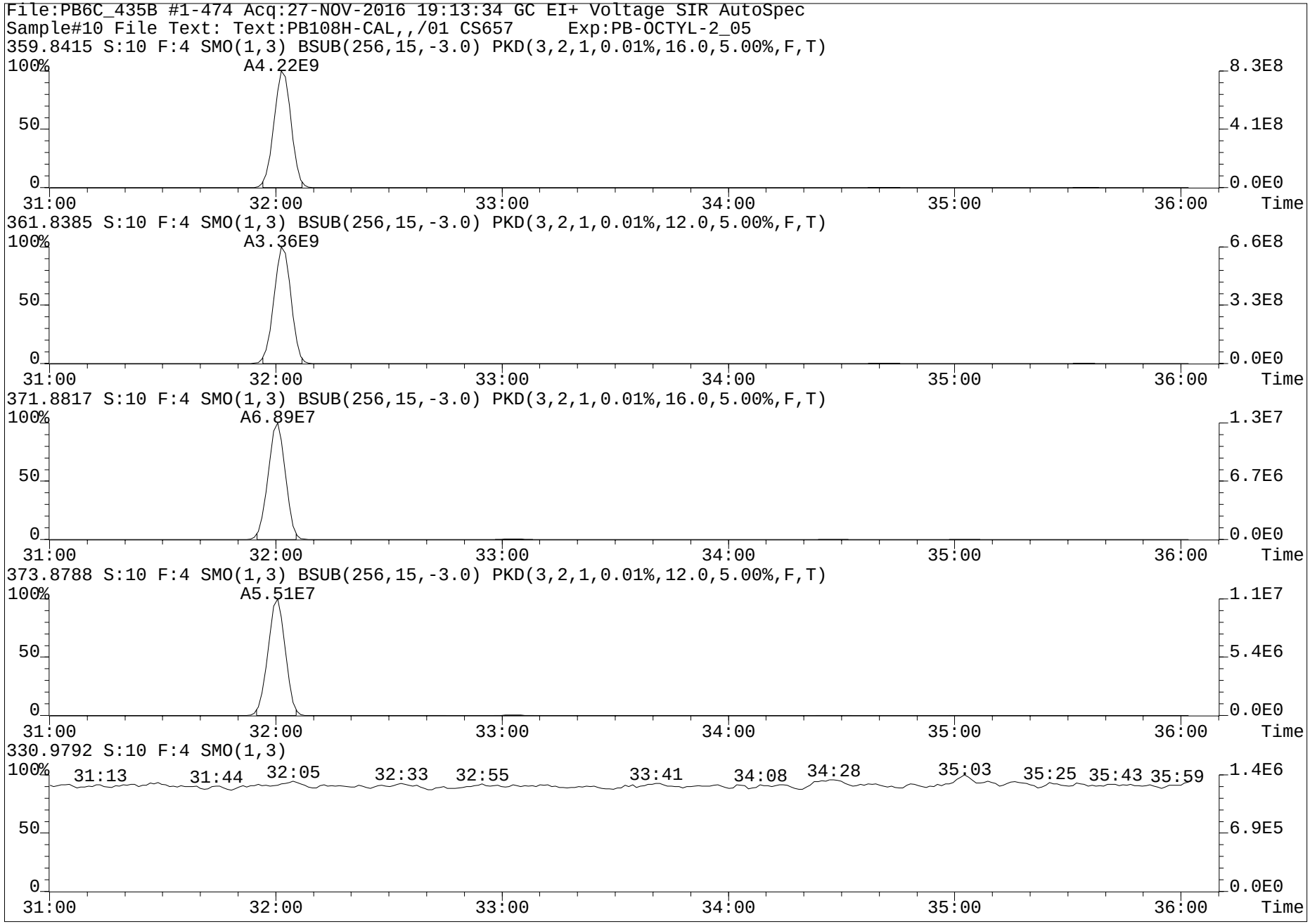

File:PB6C_435B #1-516 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
255.9613 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20172.0,5.00%,F,T)
A4.79E9
A5.11E9
257.9584 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,13316.0,5.00%,F,T)
A4.75E9
A4.98E9
268.0016 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,9568.0,5.00%,F,T)
A7.44E7
A8.66E7
269.9986 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5792.0,5.00%,F,T)
A7.08E7
A8.12E7
280.9825 S:10 F:3 SMO(1,3)
20:38 21:13 22:04 22:53 23:39 24:12 24:59 25:27 25:51 26:24 26:49 27:24
100%
50
0
1.1E9
5.3E8
0.0E0
1.8E7
9.2E6
1.7E7
8.6E6
2.4E6
1.2E6
21:00 22:00 23:00 24:00 25:00 26:00 27:00
Time

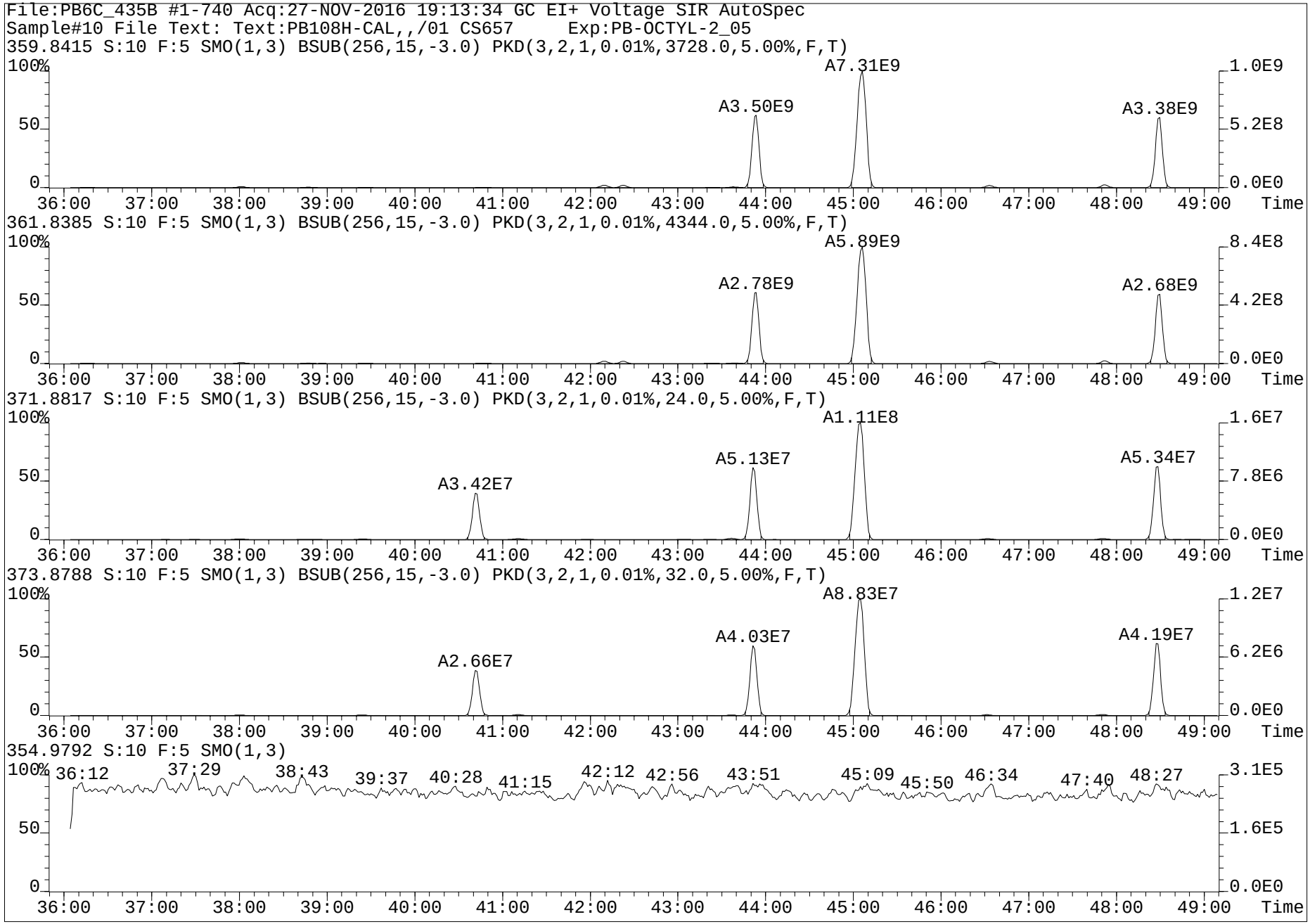

File:PB6C_435B #1-516 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
289.9224 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16024.0,5.00%,F,T)
100% A3.58E9
8.2E8
4.1E8
0.0E0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
291.9199 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20560.0,5.00%,F,T)
100% A4.44E9
1.0E9
5.0E8
0.0E0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
301.9626 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2400.0,5.00%,F,T)
100% A5.79E7
A3.81E7
1.4E7
6.8E6
0.0E0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
303.9597 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,864.0,5.00%,F,T)
100% A7.12E7
A4.83E7
1.7E7
8.3E6
0.0E0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
280.9825 S:10 F:3 SMO(1,3)
100% 20:38 21:13 22:04 22:53 23:39 24:12 24:59 25:27 25:51 26:24 26:49 27:24
2.4E6
1.2E6
0.0E0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

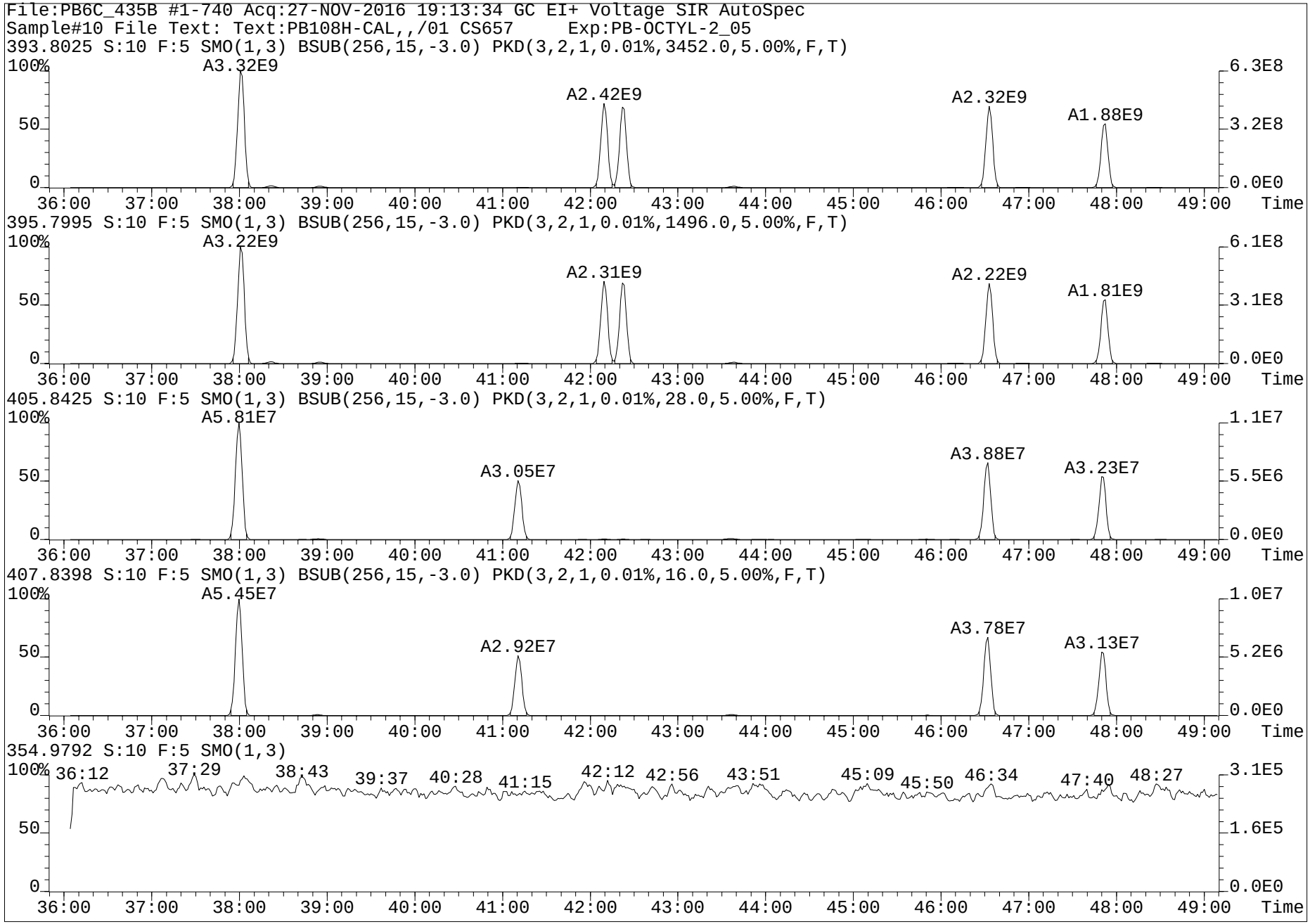

File:PB6C_435B #1-474 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
289.9224 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5632.0,5.00%,F,T)
A3.66E9 A3.73E9
291.9194 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4324.0,5.00%,F,T)
A4.71E9 A4.75E9
301.9626 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1908.0,5.00%,F,T)
A5.96E7 A6.02E7
303.9597 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,768.0,5.00%,F,T)
A7.55E7 A7.62E7
330.9792 S:10 F:4 SMO(1,3)
28:08 28:36 29:14 30:09 30:52 32:05 32:33 33:03 33:41 34:28 35:03 35:32
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
7.3E8 3.6E8 0.0E0
9.4E8 4.7E8 0.0E0
1.2E7 5.9E6 0.0E0
1.5E7 7.5E6 0.0E0
1.4E6 6.9E5 0.0E0

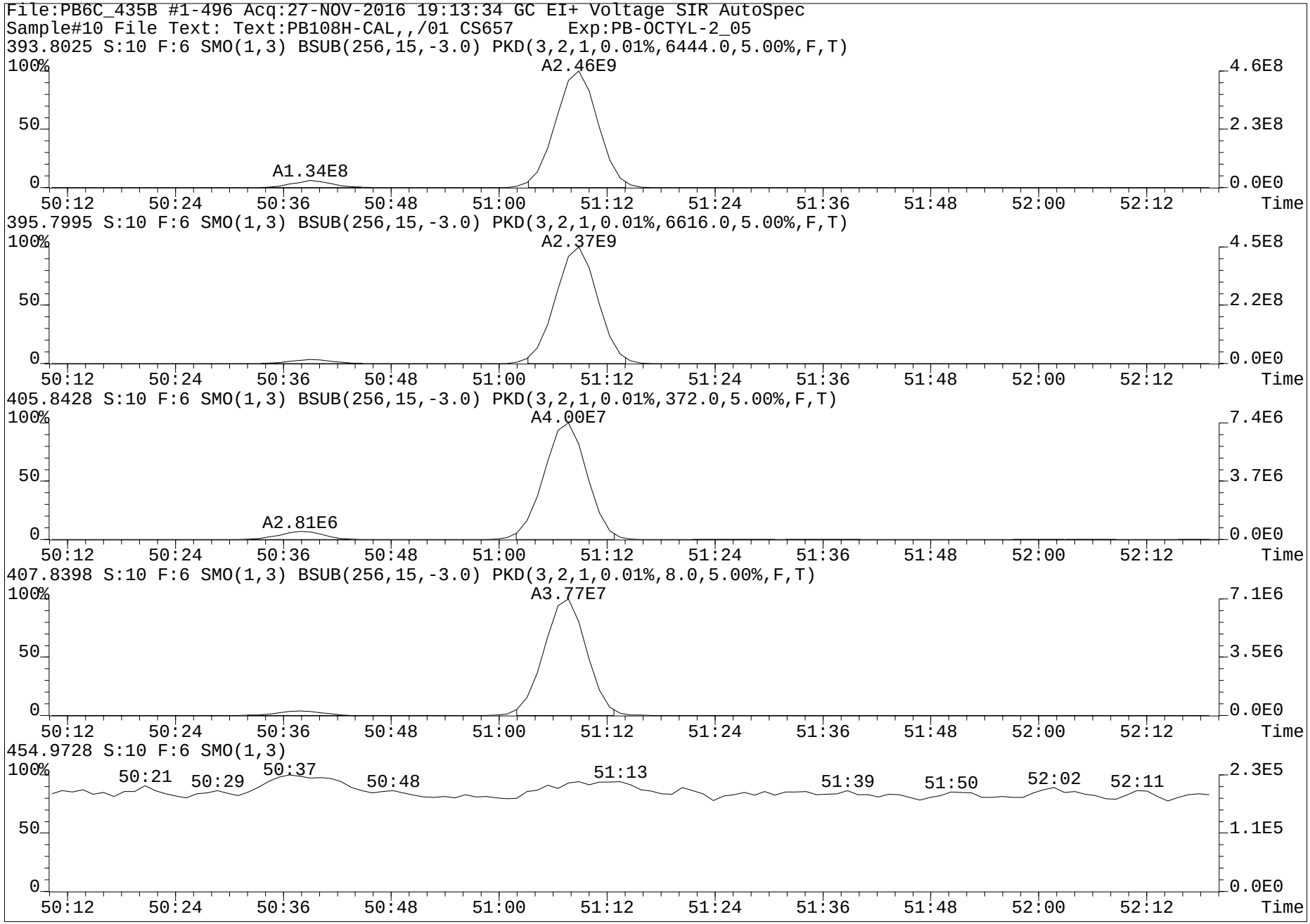

File:PB6C_435B #1-516 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
325.8804 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A4.64E9
9.6E8
4.8E8
0.0E0
327.8775 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.00E9
6.2E8
3.1E8
0.0E0
337.9207 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,28.0,5.00%,F,T)
A7.41E7
1.6E7
7.8E6
0.0E0
339.9178 S:10 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,24.0,5.00%,F,T)
A4.60E7
9.6E6
4.8E6
0.0E0
280.9825 S:10 F:3 SMO(1,3)
20:38 21:13 22:04 22:53 23:39 24:12 24:59 25:27 25:51 26:24 26:49 27:24
2.4E6
1.2E6
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

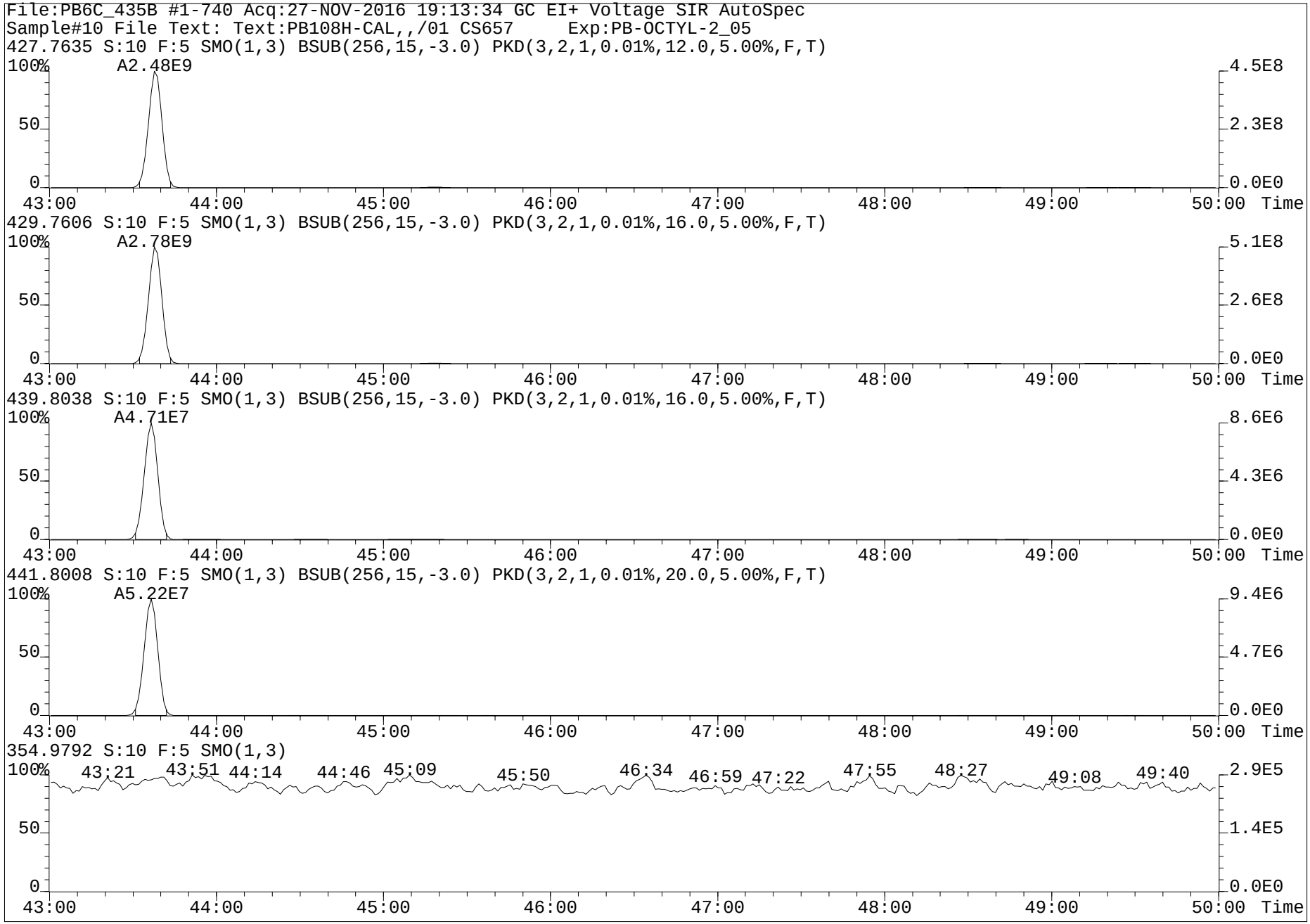

File:PB6C_435B #1-740 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
325.8804 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,34132.0,5.00%,F,T)
A4.16E9
A4.31E9
A4.11E9
A3.91E9
327.8775 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20724.0,5.00%,F,T)
A2.67E9
A2.76E9
A2.65E9
A2.51E9
337.9207 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1412.0,5.00%,F,T)
A6.58E7
A6.53E7
A6.48E7
A6.11E7
339.9178 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1172.0,5.00%,F,T)
A4.22E7
A4.13E7
A4.10E7
A3.91E7
354.9792 S:10 F:5 SMO(1,3)
36:12 36:37 37:06 37:29 38:03 38:43 39:14 39:37 40:01 40:28 40:49 41:15 41:45 42:12 42:42
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 Time
8.1E8
4.0E8
0.0E0
5.2E8
2.6E8
1.3E7
6.3E6
8.0E6
4.0E6
3.1E5
1.6E5

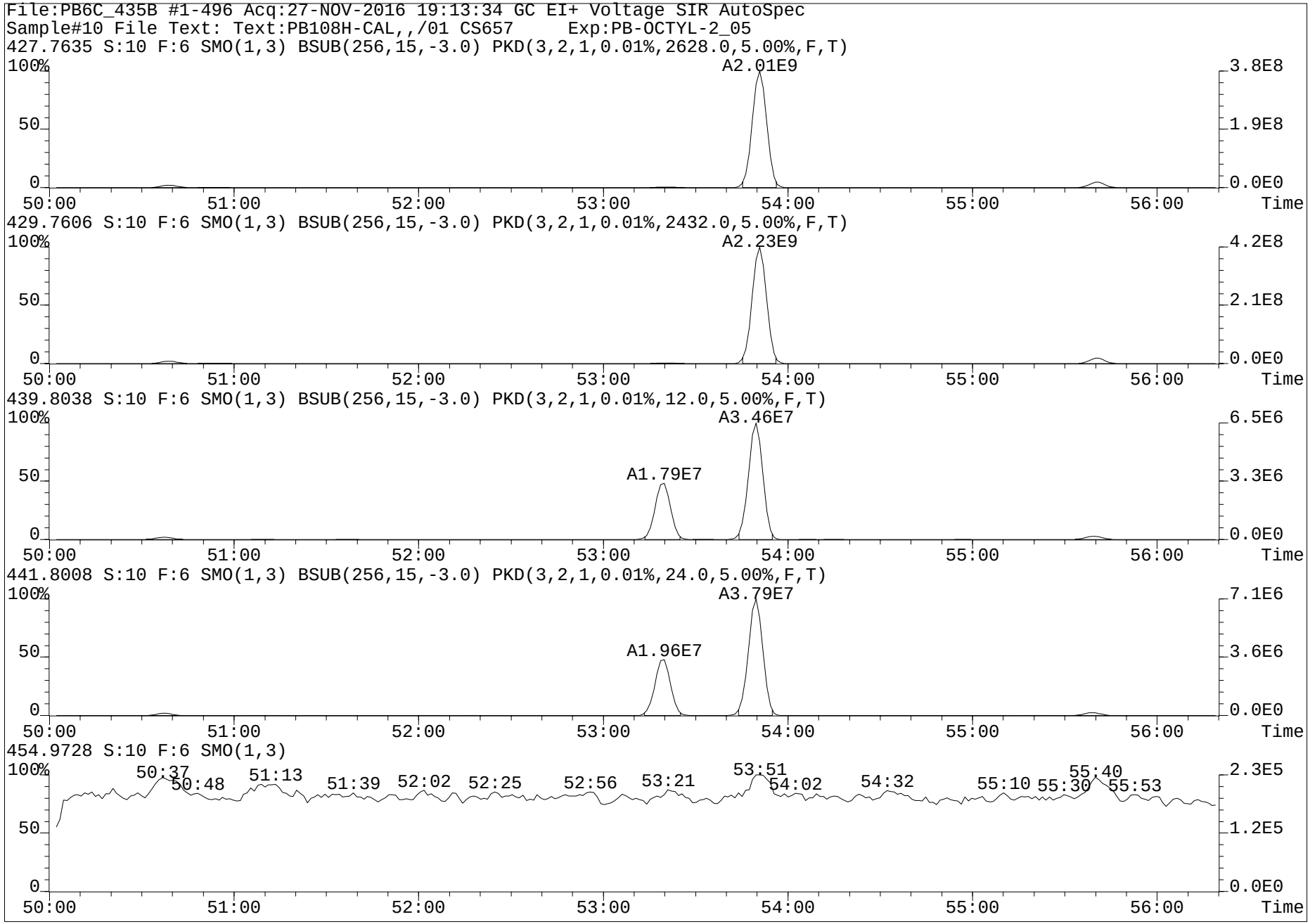

File:PB6C_435B #1-474 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
359.8415 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A4.22E9
8.3E8
4.1E8
0.0E0
361.8385 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.36E9
6.6E8
3.3E8
0.0E0
371.8817 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A6.89E7
1.3E7
6.7E6
0.0E0
373.8788 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A5.51E7
1.1E7
5.4E6
0.0E0
330.9792 S:10 F:4 SMO(1,3)
31:13
31:44
32:05
32:33
32:55
33:41
34:08
34:28
35:03
35:25
35:43
35:59
1.4E6
6.9E5
0.0E0
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time

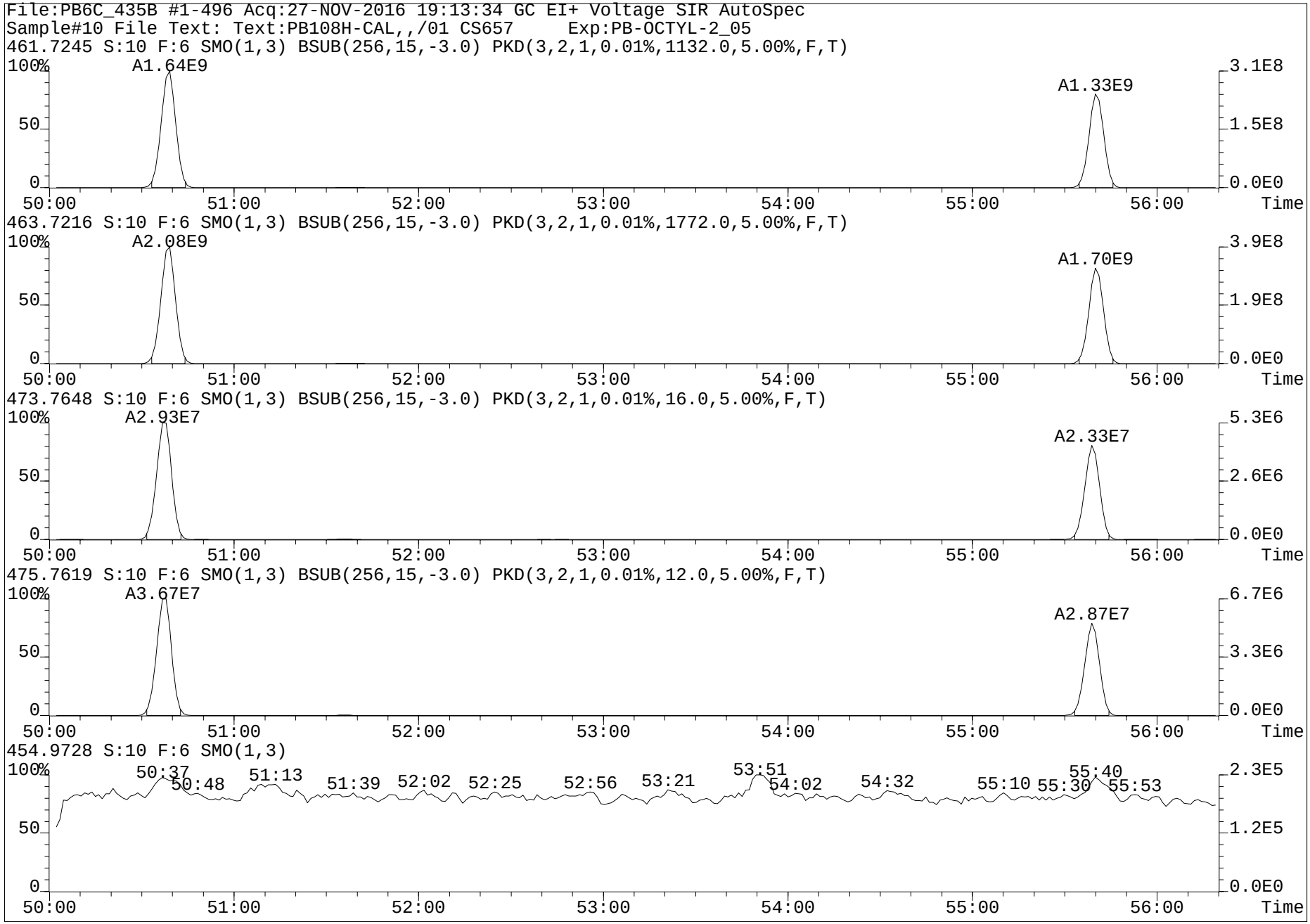

File:PB6C_435B #1-740 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
359.8415 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3728.0,5.00%,F,T)
A3.50E9
A7.31E9
A3.38E9
361.8385 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4344.0,5.00%,F,T)
A2.78E9
A5.89E9
A2.68E9
371.8817 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,24.0,5.00%,F,T)
A3.42E7
A5.13E7
A1.11E8
A5.34E7
373.8788 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,32.0,5.00%,F,T)
A2.66E7
A4.03E7
A8.83E7
A4.19E7
354.9792 S:10 F:5 SMO(1,3)
36:12
37:29
38:43
39:37
40:28
41:15
42:12
42:56
43:51
45:09
45:50
46:34
47:40
48:27
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
1.0E9
5.2E8
0.0E0
8.4E8
4.2E8
1.6E7
7.8E6
1.2E7
6.2E6
3.1E5
1.6E5

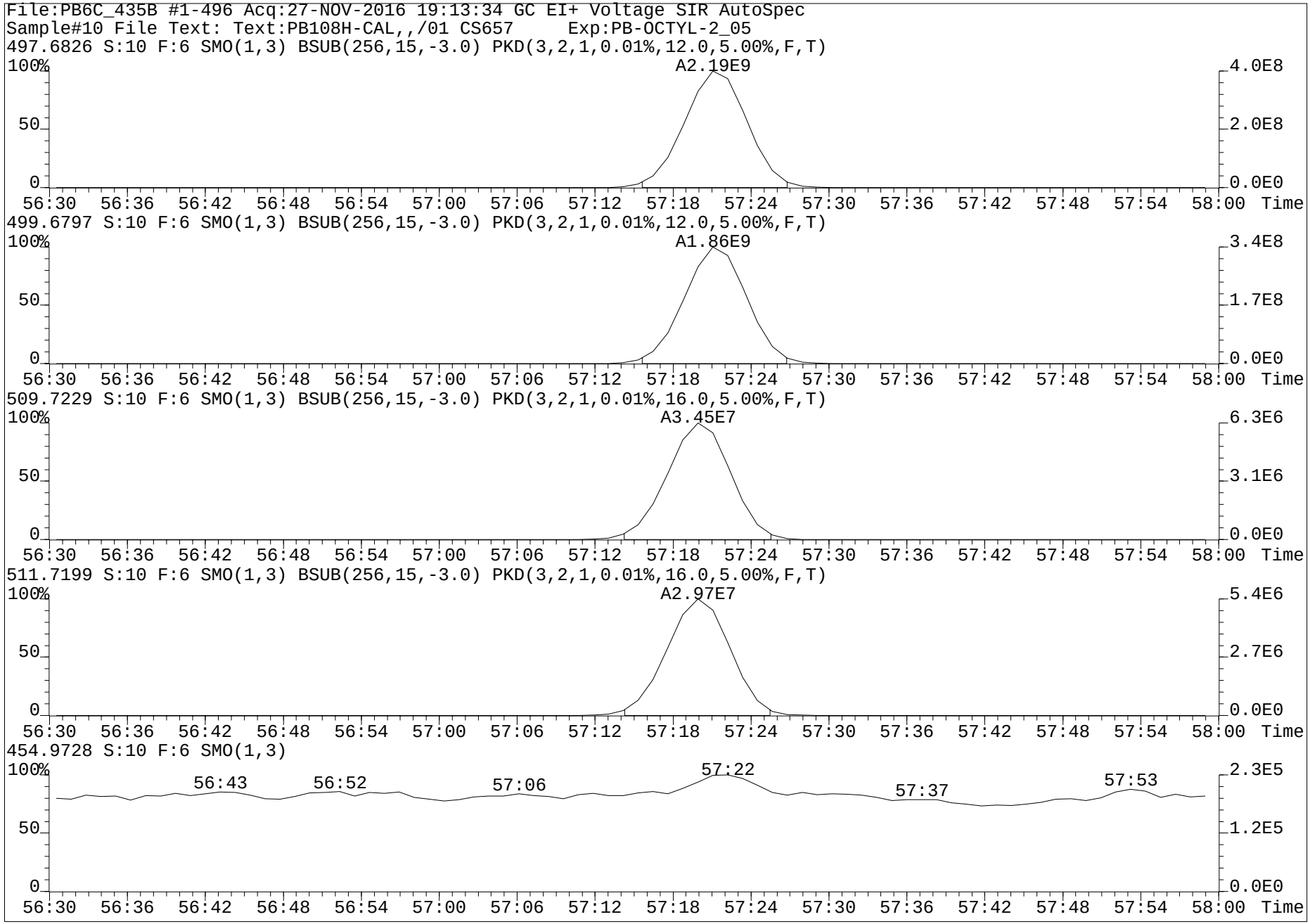

File:PB6C_435B #1-740 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
393.8025 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3452.0,5.00%,F,T)
A3.32E9
A2.42E9
A2.32E9
A1.88E9
6.3E8
3.2E8
0.0E0
395.7995 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1496.0,5.00%,F,T)
A3.22E9
A2.31E9
A2.22E9
A1.81E9
6.1E8
3.1E8
0.0E0
405.8425 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,28.0,5.00%,F,T)
A5.81E7
A3.05E7
A3.88E7
A3.23E7
1.1E7
5.5E6
0.0E0
407.8398 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A5.45E7
A2.92E7
A3.78E7
A3.13E7
1.0E7
5.2E6
0.0E0
354.9792 S:10 F:5 SMO(1,3)
36:12
37:29
38:43
39:37
40:28
41:15
42:12
42:56
43:51
45:09
45:50
46:34
47:40
48:27
3.1E5
1.6E5
0.0E0
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

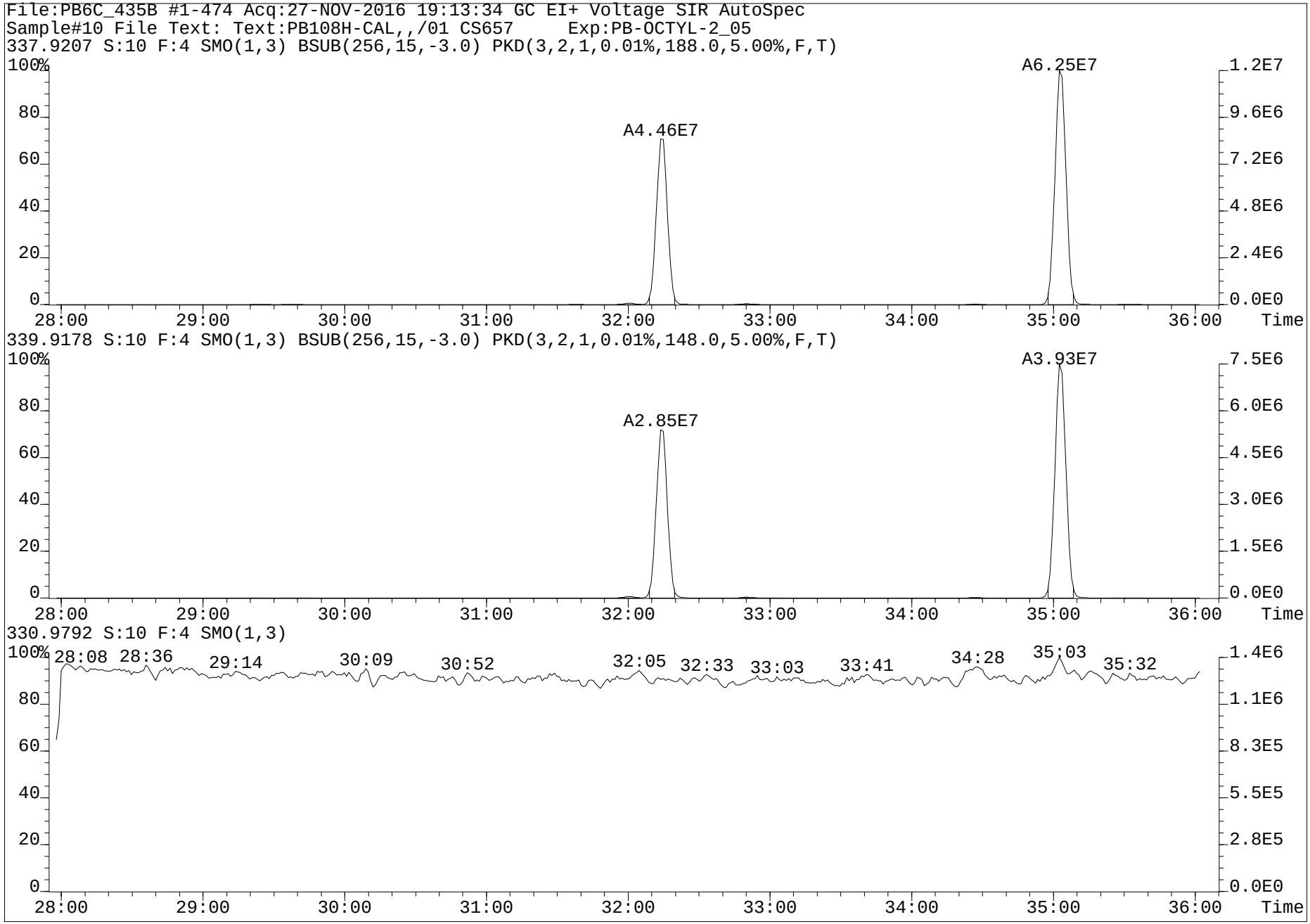

File:PB6C_435B #1-496 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
393.8025 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6444.0,5.00%,F,T)
A2.46E9
A1.34E8
395.7995 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6616.0,5.00%,F,T)
A2.37E9
405.8428 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,372.0,5.00%,F,T)
A4.00E7
A2.81E6
407.8398 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8.0,5.00%,F,T)
A3.77E7
454.9728 S:10 F:6 SMO(1,3)
50:21
50:29
50:37
50:48
51:13
51:39
51:50
52:02
52:11
100%
50
0
4.6E8
2.3E8
0.0E0
4.5E8
2.2E8
7.4E6
3.7E6
7.1E6
3.5E6
2.3E5
1.1E5
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time


File:PB6C_435B #1-740 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
427.7635 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
100% A2.48E9
4.5E8
2.3E8
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
429.7606 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
100% A2.78E9
5.1E8
2.6E8
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
439.8038 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
100% A4.71E7
8.6E6
4.3E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
441.8008 S:10 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20.0,5.00%,F,T)
100% A5.22E7
9.4E6
4.7E6
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time
354.9792 S:10 F:5 SMO(1,3)
100% 43:21 43:51 44:14 44:46 45:09 45:50 46:34 46:59 47:22 47:55 48:27 49:08 49:40
2.9E5
1.4E5
0.0E0
43:00 44:00 45:00 46:00 47:00 48:00 49:00 50:00 Time


File:PB6C_435B #1-496 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
427.7635 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2628.0,5.00%,F,T)
A2.01E9
429.7606 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2432.0,5.00%,F,T)
A2.23E9
439.8038 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.46E7
A1.79E7
441.8008 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,24.0,5.00%,F,T)
A3.79E7
A1.96E7
454.9728 S:10 F:6 SMO(1,3)
50:37
50:48
51:13
51:39
52:02
52:25
52:56
53:21
53:51
54:02
54:32
55:10
55:30
55:40
55:53
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
3.8E8
1.9E8
0.0E0
4.2E8
2.1E8
6.5E6
3.3E6
7.1E6
3.6E6
2.3E5
1.2E5


File:PB6C_435B #1-496 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
461.7245 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1132.0,5.00%,F,T)
A1.64E9
A1.33E9
463.7216 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1772.0,5.00%,F,T)
A2.08E9
A1.70E9
473.7648 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A2.93E7
A2.33E7
475.7619 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A3.67E7
A2.87E7
454.9728 S:10 F:6 SMO(1,3)
50:37
50:48
51:13
51:39
52:02
52:25
52:56
53:21
53:51
54:02
54:32
55:10
55:30
55:40
55:53
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
3.1E8
1.5E8
0.0E0
3.9E8
1.9E8
5.3E6
2.6E6
6.7E6
3.3E6
2.3E5
1.2E5


File:PB6C_435B #1-496 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
497.6826 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A2.19E9
499.6797 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12.0,5.00%,F,T)
A1.86E9
509.7229 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A3.45E7
511.7199 S:10 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,16.0,5.00%,F,T)
A2.97E7
454.9728 S:10 F:6 SMO(1,3)
56:43
56:52
57:06
57:22
57:37
57:53
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
4.0E8
2.0E8
0.0E0
3.4E8
1.7E8
6.3E6
3.1E6
5.4E6
2.7E6
2.3E5
1.2E5


File:PB6C_435B #1-474 Acq:27-NOV-2016 19:13:34 GC EI+ Voltage SIR AutoSpec
Sample#10 File Text: Text:PB108H-CAL,,/01 CS657 Exp:PB-OCTYL-2_05
337.9207 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,188.0,5.00%,F,T)
A4.46E7
A6.25E7
339.9178 S:10 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A2.85E7
A3.93E7
330.9792 S:10 F:4 SMO(1,3)
28:08 28:36 29:14 30:09 30:52 32:05 32:33 33:03 33:41 34:28 35:03 35:32
Time

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Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : OCTYL
Serial # : 54277-02A/55632
kPa : 288
Vol injected: 1.0UL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

Tune : BA
List : BA
Check :
LIMS :
Logfile:

Date -list : 12-APR-2017
-liner : 12-APR-2017
-septum: 12-APR-2017
-guard : 60CM 12-APR-2017
-column: NEW 26-NOV-2016
-t line: NEW 26-NOV-2016

| # | Data file | S | V | Sample Text | Comments | Acquisition Date/Time |
|---|---|---|---|---|---|---|
| 1 | PB7C_129 | 1 | 1 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 12-APR-17 08:07:04 |
| 2 | PB7C_129 | 2 | 2 | WG58451-102,I,SPM | 1,WG58451,1.0/20uL | 12-APR-17 09:11:17 |
| 3 | PB7C_129 | 3 | 3 | PB053A-SUR,,/01 | 1,,1.0uL Inst Blank | 12-APR-17 10:15:33 |
| 4 | PB7C_129 | 4 | 4 | WG58451-101,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 11:19:52 |
| 5 | PB7C_129 | 5 | 5 | WG58451-103,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 12:24:07 |
| 6 | PB7C_129 | 6 | 6 | WG58451-104,I,Blank | 1,WG58451,1.0/20uL | 12-APR-17 13:28:20 |
| 7 | PB7C_129 | 7 | 7 | L26851-9,I, | 1,WG58855,1.0/20uL | 12-APR-17 14:32:39 |
| 8 | PB7C_129 | 8 | 8 | L27062-1,, | 1,WG58451,1.0/20uL | 12-APR-17 15:36:54 |
| 9 | PB7C_129 | 9 | 9 | L27062-2,, | 1,WG58451,1.0/20uL | 12-APR-17 16:41:09 |
| 10 | PB7C_129 | 10 | 10 | L27062-3,, | 1,WG58451,1.0/20uL | 12-APR-17 17:45:23 |
| 11 | PB7C_129 | 11 | 11 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 12-APR-17 18:49:36 |

OPUSquan 15-APR-2017 Page 1



Run #7 Filename PB7C_129 S: 1 I: 1 Acquired: 12-APR-17 08:07:04 Processed: 13-APR-17 07:58:24
Run: pb7c_129-ta Analyte: 1668A-CV8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal
sample size: 1.000000 conc units: ng/mL total toxicity: 1416.51 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 2.93e+07 | 3.16 | y | 11:31 | 25.044 | 25 | 0.0086 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 2.89e+07 | 3.15 | y | 13:45 | 25.584 | 26 | 0.0106 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 1.73e+07 | 1.55 | y | 14:00 | 24.846 | 25 | 0.0505 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 3.03e+07 | 1.55 | y | 20:05 | 29.049 | 29 | 0.0415 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 1.56e+07 | 1.05 | y | 17:11 | 27.654 | 28 | 0.0111 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 2.62e+07 | 1.02 | y | 27:22 | 26.584 | 27 | 0.0687 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 4.18e+07 | 0.78 | y | 20:21 | 51.165 | 51 | 0.0313 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 4.05e+07 | 0.79 | y | 34:25 | 53.337 | 53 | 0.9834 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 3.75e+07 | 0.79 | y | 35:01 | 50.307 | 50 | 1.0163 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.61e+07 | 1.56 | y | 26:04 | 52.476 | 52 | 0.0069 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 3.11e+07 | 1.57 | y | 37:06 | 52.628 | 53 | 2.1708 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.19e+07 | 1.57 | y | 37:27 | 52.433 | 52 | 2.1363 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.30e+07 | 1.58 | y | 38:00 | 53.299 | 53 | 2.1279 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 3.28e+07 | 1.58 | y | 38:40 | 54.918 | 55 | 2.1752 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 2.86e+07 | 1.58 | y | 41:55 | 54.543 | 55 | 2.5747 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 3.25e+07 | 1.26 | y | 32:00 | 53.267 | 53 | 0.0077 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 2.85e+07 | 1.26 | y | 43:52 | 56.097 | 56 | 0.8230 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 5.22e+07 | 1.25 | y | 45:04 | 106.070 | 106 | 1.0645 | - | n |
| 19 | Unk | CL6-PCB-169 | 1 | 2.82e+07 | 1.37 | y | 48:29 | 61.323 | 61 | 0.9293 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.58e+07 | 1.05 | y | 37:59 | 49.946 | 50 | 0.0095 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 2.57e+07 | 1.06 | y | 51:07 | 51.248 | 51 | 0.0827 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 3.36e+07 | 0.90 | y | 43:36 | 84.112 | 84 | 0.0081 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 3.11e+07 | 0.91 | y | 53:49 | 79.589 | 80 | 0.0790 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 3.09e+07 | 0.78 | y | 50:36 | 85.602 | 86 | 0.0410 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 2.12e+07 | 0.79 | y | 55:37 | 78.571 | 79 | 0.0542 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 2.75e+07 | 1.19 | y | 57:18 | 76.816 | 77 | 0.0108 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 1.07e+08 | 3.19 | y | 11:30 | 92.620 | 0 | 0.1240 | 92.6 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 1.03e+08 | 3.13 | y | 13:44 | 91.491 | 0 | 0.1272 | 91.5 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 6.82e+07 | 1.59 | y | 13:59 | 91.873 | 0 | 0.0722 | 91.9 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 1.12e+08 | 1.56 | y | 20:04 | 92.485 | 0 | 0.0441 | 92.5 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 5.70e+07 | 1.05 | y | 17:10 | 85.842 | 0 | 0.3262 | 85.8 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 9.73e+07 | 1.06 | y | 27:21 | 97.621 | 0 | 0.4132 | 97.6 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 7.85e+07 | 0.81 | y | 20:20 | 96.272 | 0 | 0.0186 | 96.3 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 7.41e+07 | 0.78 | y | 34:24 | 91.925 | 0 | 0.0324 | 91.9 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 7.42e+07 | 0.79 | y | 34:59 | 89.196 | 0 | 0.0314 | 89.2 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 6.56e+07 | 1.58 | y | 26:03 | 95.039 | 0 | 0.0071 | 95.0 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 6.08e+07 | 1.58 | y | 37:05 | 98.167 | 0 | 0.0884 | 98.2 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 5.95e+07 | 1.61 | y | 37:25 | 97.314 | 0 | 0.0896 | 97.3 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.82e+07 | 1.61 | y | 37:58 | 98.252 | 0 | 0.0924 | 98.3 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 5.87e+07 | 1.59 | y | 38:38 | 96.607 | 0 | 0.0901 | 96.6 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 5.11e+07 | 1.62 | y | 41:53 | 91.801 | 0 | 0.0983 | 91.8 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 6.07e+07 | 1.26 | y | 31:59 | 88.622 | 0 | 0.0074 | 88.6 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 4.60e+07 | 1.26 | y | 43:50 | 92.499 | 0 | 0.0120 | 92.5 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 9.12e+07 | 1.27 | y | 45:02 | 175.964 | 0 | 0.0115 | 88.0 | n |

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 4.51e+07 | 1.28 | y | 48:27 | 91.323 | 0 | 0.0120 | 91.3 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 5.45e+07 | 1.06 | y | 37:57 | 75.169 | 0 | 0.0066 | 75.2 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 5.00e+07 | 1.05 | y | 51:06 | 105.838 | 0 | 0.0485 | 105.8 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 4.66e+07 | 0.90 | y | 43:34 | 69.432 | 0 | 0.0064 | 69.4 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 4.11e+07 | 0.91 | y | 53:47 | 92.993 | 0 | 0.0235 | 93.0 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.97e+07 | 0.76 | y | 50:34 | 93.849 | 0 | 0.0091 | 93.8 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.88e+07 | 0.79 | y | 55:36 | 90.065 | 0 | 0.0120 | 90.1 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.51e+07 | 1.17 | y | 57:17 | 87.215 | 0 | 0.0088 | 87.2 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.11e+08 | 1.59 | y | 16:01 | 69.815 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.81e+07 | 0.79 | y | 25:04 | 66.345 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 4.70e+07 | 1.60 | y | 32:13 | 60.702 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.93e+07 | 1.29 | y | 40:40 | 57.197 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.90e+07 | 0.91 | y | 53:17 | 67.133 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 1.02e+08 | 1.06 | y | 23:11 | 104.206 | 0 | 0.4189 | 104.2 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.87e+07 | 1.60 | y | 35:02 | 95.250 | 0 | 0.0242 | 95.2 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.49e+07 | 1.05 | y | 41:09 | 89.875 | 0 | 0.0122 | 89.9 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 7.85e+07 | 0.81 | y | 20:20 | 96.272 | 0 | 0.0186 | 96.3 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 5.45e+07 | 1.06 | y | 37:57 | 75.169 | 0 | 0.0066 | 75.2 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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Run #1 Filename PB7C_129 S: 1 I: 1 Acquired: 12-APR-17 08:07:04 Processed: 13-APR-17 08:22:39
Run: pb7c_129-tc Analyte: 1668XB-C8 Cal: PB9C_274A-CAL Results: pb7c_129-ac Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal F1: 1.00 F2: 1.00

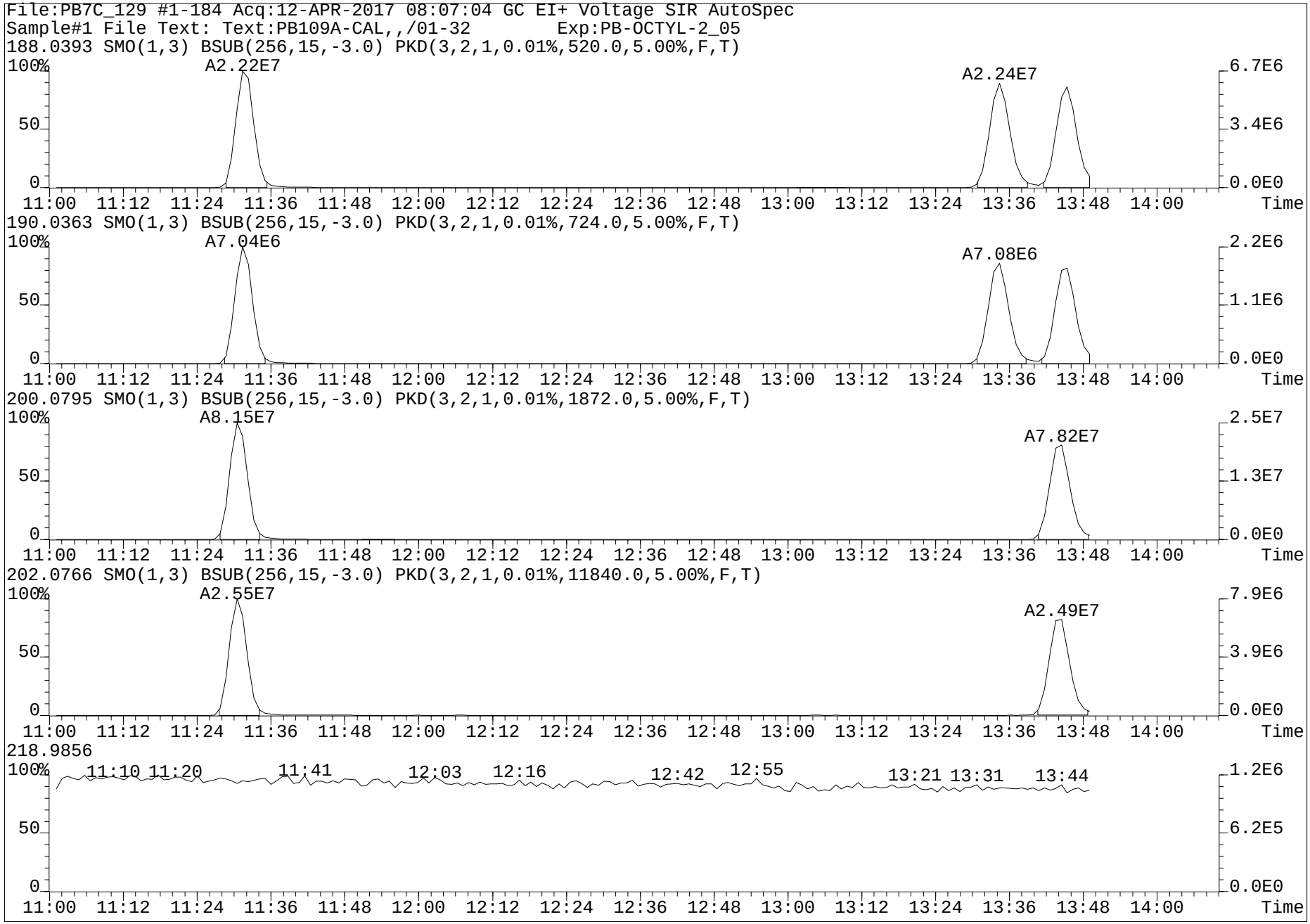
| | Typ | Name | Amount | Resp | RA | | RT | RF | RRF | | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 25.00 | 2.95e+07 | 3.17 | y | 13:34 | - | 1.1230 | n | n |
| 2 | Unk | CL2-PCB-10 | 25.00 | 2.75e+07 | 1.54 | y | 14:11 | - | 1.2187 | n | n |
| 3 | Unk | CL2-PCB-9 | 25.00 | 2.88e+07 | 1.57 | y | 16:02 | - | 1.2766 | n | n |
| 4 | Unk | CL2-PCB-7 | 25.00 | 2.82e+07 | 1.56 | y | 16:12 | - | 1.2516 | n | n |
| 5 | Unk | CL2-PCB-6 | 25.00 | 2.89e+07 | 1.56 | y | 16:27 | - | 1.2823 | n | n |
| 6 | Unk | CL2-PCB-5 | 25.00 | 2.64e+07 | 1.54 | y | 16:46 | - | 1.1711 | n | n |
| 7 | Unk | CL2-PCB-8 | 25.00 | 3.06e+07 | 1.55 | y | 16:54 | - | 1.3550 | n | n |
| 8 | Unk | CL2-PCB-14 | 25.00 | 2.86e+07 | 1.55 | y | 18:35 | - | 1.2689 | n | n |
| 9 | Unk | CL2-PCB-11 | 25.00 | 2.86e+07 | 1.57 | y | 19:27 | - | 1.2659 | n | n |
| 10 | Unk | CL2-PCB-12/13 | 50.00 | 5.60e+07 | 1.56 | y | 19:45 | - | 1.2417 | n | n |
| 11 | Unk | CL3-PCB-30/18 | 50.00 | 4.13e+07 | 1.04 | y | 19:06 | - | 1.0702 | n | n |
| 12 | Unk | CL3-PCB-17 | 25.00 | 1.74e+07 | 1.09 | y | 19:32 | - | 0.9042 | n | n |
| 13 | Unk | CL3-PCB-27 | 25.00 | 2.47e+07 | 1.05 | y | 19:45 | - | 1.2807 | n | n |
| 14 | Unk | CL3-PCB-24 | 25.00 | 2.28e+07 | 1.05 | y | 19:53 | - | 1.1825 | n | n |
| 15 | Unk | CL3-PCB-16 | 25.00 | 1.53e+07 | 1.04 | y | 20:00 | - | 0.7921 | n | n |
| 16 | Unk | CL3-PCB-32 | 25.00 | 2.75e+07 | 1.04 | y | 20:33 | - | 1.4281 | n | n |
| 17 | Unk | CL3-PCB-34 | 25.00 | 2.61e+07 | 1.04 | y | 21:51 | - | 1.3538 | n | n |
| 18 | Unk | CL3-PCB-23 | 25.00 | 2.46e+07 | 1.04 | y | 22:01 | - | 1.2768 | n | y |
| 19 | Unk | CL3-PCB-26/29 | 50.00 | 5.37e+07 | 1.04 | y | 22:21 | - | 1.3914 | n | n |
| 20 | Unk | CL3-PCB-25 | 25.00 | 3.04e+07 | 1.04 | y | 22:35 | - | 1.5764 | n | n |
| 21 | Unk | CL3-PCB-31 | 25.00 | 2.81e+07 | 1.04 | y | 22:53 | - | 1.4570 | n | y |
| 22 | Unk | CL3-PCB-28/20 | 50.00 | 5.52e+07 | 1.04 | y | 23:12 | - | 1.4309 | n | y |
| 23 | Unk | CL3-PCB-21/33 | 50.00 | 5.53e+07 | 1.04 | y | 23:24 | - | 1.4343 | n | n |
| 24 | Unk | CL3-PCB-22 | 25.00 | 2.52e+07 | 1.03 | y | 23:51 | - | 1.3070 | n | n |
| 25 | Unk | CL3-PCB-36 | 25.00 | 2.79e+07 | 1.05 | y | 25:29 | - | 1.4482 | n | y |
| 26 | Unk | CL3-PCB-39 | 25.00 | 2.98e+07 | 1.03 | y | 25:52 | - | 1.5444 | n | n |
| 27 | Unk | CL3-PCB-38 | 25.00 | 2.80e+07 | 1.06 | y | 26:28 | - | 1.4501 | n | n |
| 28 | Unk | CL3-PCB-35 | 25.00 | 2.66e+07 | 1.03 | y | 26:57 | - | 1.3789 | n | y |
| 29 | Unk | CL4-PCB-50/53 | 100.00 | 6.70e+07 | 0.78 | y | 22:36 | - | 0.8859 | n | n |
| 30 | Unk | CL4-PCB-45/51 | 100.00 | 6.53e+07 | 0.77 | y | 23:19 | - | 0.8638 | n | y |
| 31 | Unk | CL4-PCB-46 | 50.00 | 2.85e+07 | 0.79 | y | 23:36 | - | 0.7538 | n | n |
| 32 | Unk | CL4-PCB-52 | 50.00 | 3.44e+07 | 0.78 | y | 25:06 | - | 0.9095 | n | n |
| 33 | Unk | CL4-PCB-73 | 50.00 | 4.37e+07 | 0.78 | y | 25:15 | - | 1.1553 | n | n |
| 34 | Unk | CL4-PCB-43 | 50.00 | 2.44e+07 | 0.79 | y | 25:20 | - | 0.6456 | n | y |
| 35 | Unk | CL4-PCB-69/49 | 100.00 | 7.46e+07 | 0.79 | y | 25:35 | - | 0.9873 | n | n |
| 36 | Unk | CL4-PCB-48 | 50.00 | 3.47e+07 | 0.78 | y | 25:54 | - | 0.9193 | n | n |
| 37 | Unk | CL4-PCB-44/47/65 | 150.00 | 1.10e+08 | 0.78 | y | 26:09 | - | 0.9670 | n | n |
| 38 | Unk | CL4-PCB-59/62/75 | 150.00 | 1.32e+08 | 0.80 | y | 26:28 | - | 1.1610 | n | n |
| 39 | Unk | CL4-PCB-42 | 50.00 | 2.99e+07 | 0.78 | y | 26:40 | - | 0.7898 | n | n |
| 40 | Unk | CL4-PCB-41/40/71 | 150.00 | 9.45e+07 | 0.78 | y | 27:08 | - | 0.8330 | n | y |
| 41 | Unk | CL4-PCB-64 | 50.00 | 4.28e+07 | 0.77 | y | 27:25 | - | 1.1310 | n | n |
| 42 | Unk | CL4-PCB-72 | 50.00 | 4.61e+07 | 0.80 | y | 28:19 | - | 1.2185 | n | n |
| 43 | Unk | CL4-PCB-68 | 50.00 | 4.70e+07 | 0.79 | y | 28:37 | - | 1.2423 | n | n |
| 44 | Unk | CL4-PCB-57 | 50.00 | 4.65e+07 | 0.80 | y | 29:03 | - | 1.2306 | n | n |

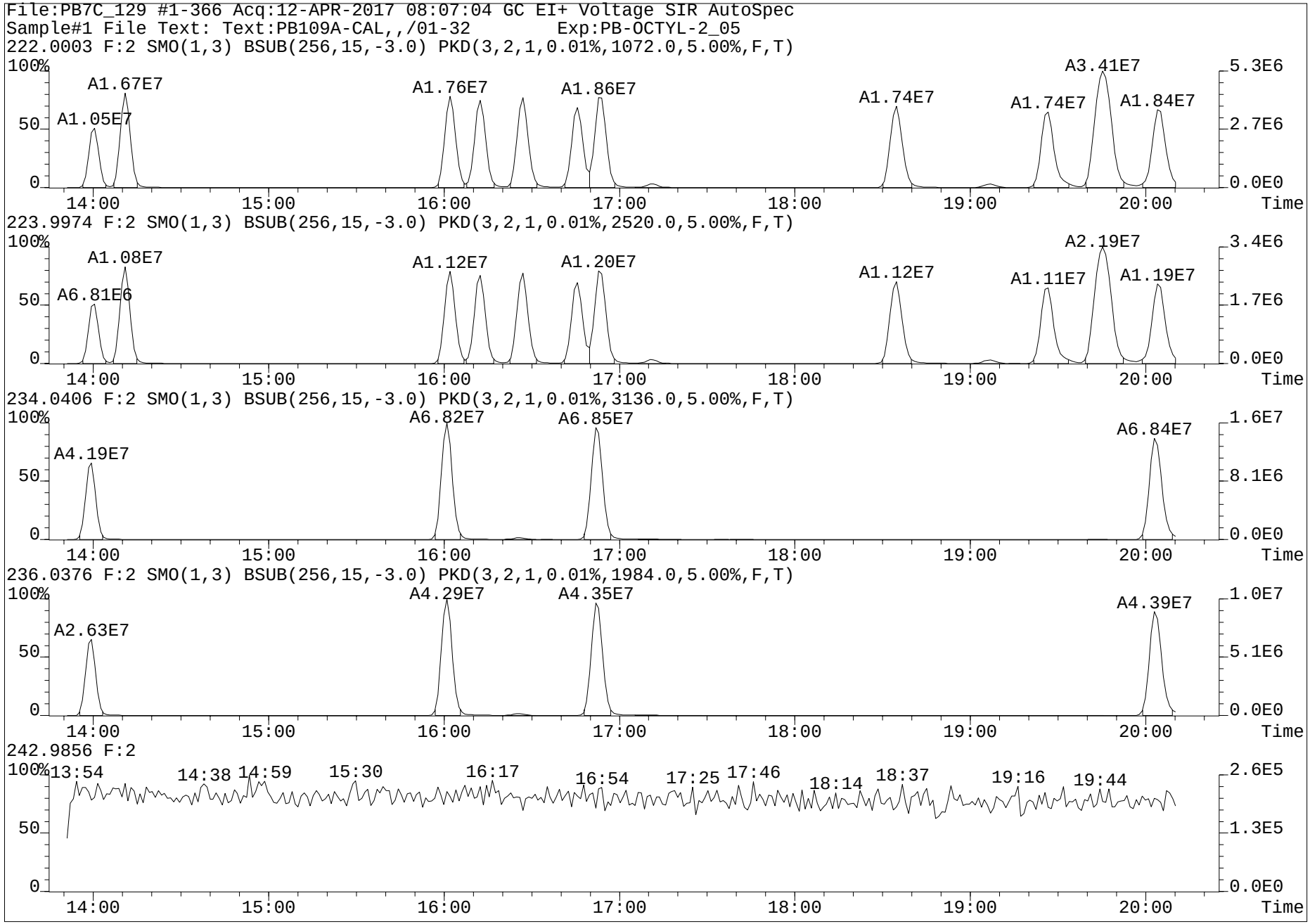
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 50.00 | 4.24e+07 | 0.79 y | 29:17 | - | 1.1206 | n | n |
| 46 | Unk | CL4-PCB-67 | 50.00 | 5.19e+07 | 0.79 y | 29:28 | - | 1.3724 | n | n |
| 47 | Unk | CL4-PCB-63 | 50.00 | 4.48e+07 | 0.80 y | 29:45 | - | 1.1853 | n | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 200.00 | 1.73e+08 | 0.78 y | 30:05 | - | 1.1424 | n | n |
| 49 | Unk | CL4-PCB-66 | 50.00 | 4.40e+07 | 0.78 y | 30:26 | - | 1.1641 | n | n |
| 50 | Unk | CL4-PCB-55 | 50.00 | 4.01e+07 | 0.79 y | 30:36 | - | 1.0605 | n | n |
| 51 | Unk | CL4-PCB-56 | 50.00 | 3.99e+07 | 0.79 y | 31:07 | - | 1.0551 | n | n |
| 52 | Unk | CL4-PCB-60 | 50.00 | 4.01e+07 | 0.79 y | 31:21 | - | 1.0598 | n | n |
| 53 | Unk | CL4-PCB-80 | 50.00 | 4.48e+07 | 0.80 y | 31:48 | - | 1.1849 | n | n |
| 54 | Unk | CL4-PCB-79 | 50.00 | 4.81e+07 | 0.79 y | 33:23 | - | 1.2729 | n | n |
| 55 | Unk | CL4-PCB-78 | 50.00 | 4.00e+07 | 0.78 y | 33:58 | - | 1.0594 | n | n |
| 56 | Unk | CL5-PCB-96 | 50.00 | 3.51e+07 | 1.58 y | 26:26 | - | 1.1607 | n | n |
| 57 | Unk | CL5-PCB-103 | 50.00 | 2.83e+07 | 1.55 y | 28:28 | - | 0.9337 | n | y |
| 58 | Unk | CL5-PCB-94 | 50.00 | 2.27e+07 | 1.55 y | 28:41 | - | 0.7501 | n | y |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 250.00 | 1.26e+08 | 1.59 y | 29:24 | - | 0.8314 | n | y |
| 60 | Unk | CL5-PCB-88/91 | 100.00 | 4.79e+07 | 1.59 y | 30:00 | - | 0.7909 | n | y |
| 61 | Unk | CL5-PCB-84 | 50.00 | 2.13e+07 | 1.61 y | 30:16 | - | 0.7027 | n | y |
| 62 | Unk | CL5-PCB-89 | 50.00 | 2.28e+07 | 1.59 y | 30:46 | - | 0.7534 | n | y |
| 63 | Unk | CL5-PCB-121 | 50.00 | 3.13e+07 | 1.59 y | 31:15 | - | 1.0328 | n | n |
| 64 | Unk | CL5-PCB-92 | 50.00 | 2.40e+07 | 1.57 y | 31:37 | - | 0.7912 | n | y |
| 65 | Unk | CL5-PCB-113/90/101 | 150.00 | 8.15e+07 | 1.58 y | 32:12 | - | 0.8970 | n | n |
| 66 | Unk | CL5-PCB-83/99 | 100.00 | 4.53e+07 | 1.56 y | 32:47 | - | 0.7475 | n | y |
| 67 | Unk | CL5-PCB-112 | 50.00 | 3.39e+07 | 1.58 y | 32:58 | - | 1.1206 | n | y |
| 68 | Unk | CB-109/119/86/97/125/87 | 300.00 | 1.62e+08 | 1.57 y | 33:23 | - | 0.8915 | n | n |
| 69 | Unk | CL5-PCB-117/116/85 | 150.00 | 8.37e+07 | 1.57 y | 34:05 | - | 0.9219 | n | n |
| 70 | Unk | CL5-PCB-110/115 | 100.00 | 6.33e+07 | 1.59 y | 34:20 | - | 1.0454 | n | y |
| 71 | Unk | CL5-PCB-82 | 50.00 | 2.11e+07 | 1.61 y | 34:36 | - | 0.6974 | n | y |
| 72 | Unk | CL5-PCB-111 | 50.00 | 3.23e+07 | 1.57 y | 35:03 | - | 1.0656 | n | n |
| 73 | Unk | CL5-PCB-120 | 50.00 | 3.51e+07 | 1.58 y | 35:32 | - | 1.1578 | n | n |
| 74 | Unk | CL5-PCB-108/124 | 100.00 | 6.35e+07 | 1.58 y | 36:44 | - | 1.0486 | n | n |
| 75 | Unk | CL5-PCB-107 | 50.00 | 3.41e+07 | 1.54 y | 36:59 | - | 1.1275 | n | n |
| 76 | Unk | CL5-PCB-106 | 50.00 | 3.59e+07 | 1.58 y | 37:13 | - | 1.1868 | n | n |
| 77 | Unk | CL5-PCB-122 | 50.00 | 2.97e+07 | 1.56 y | 37:48 | - | 0.9796 | n | n |
| 78 | Unk | CL5-PCB-127 | 50.00 | 2.99e+07 | 1.57 y | 40:14 | - | 0.9888 | n | n |
| 79 | Unk | CL6-PCB-152 | 50.00 | 3.18e+07 | 1.24 y | 32:10 | - | 1.3097 | n | y |
| 80 | Unk | CL6-PCB-150 | 50.00 | 3.07e+07 | 1.27 y | 32:21 | - | 1.2622 | n | y |
| 81 | Unk | CL6-PCB-136 | 50.00 | 3.12e+07 | 1.26 y | 32:43 | - | 1.2853 | n | n |
| 82 | Unk | CL6-PCB-145 | 50.00 | 2.93e+07 | 1.26 y | 33:02 | - | 1.2080 | n | y |
| 83 | Unk | CL6-PCB-148 | 50.00 | 2.29e+07 | 1.24 y | 34:38 | - | 0.9431 | n | y |
| 84 | Unk | CL6-PCB-151/135/154 | 150.00 | 7.49e+07 | 1.26 y | 35:22 | - | 1.0282 | n | y |
| 85 | Unk | CL6-PCB-144 | 50.00 | 2.37e+07 | 1.25 y | 35:51 | - | 0.9745 | n | n |
| 86 | Unk | CL6-PCB-147/149 | 100.00 | 4.69e+07 | 1.26 y | 36:14 | - | 0.9662 | n | n |
| 87 | Unk | CL6-PCB-134/143 | 100.00 | 4.05e+07 | 1.28 y | 36:28 | - | 0.8344 | n | y |
| 88 | Unk | CL6-PCB-139/140 | 100.00 | 4.55e+07 | 1.25 y | 36:51 | - | 0.9372 | n | n |
| 89 | Unk | CL6-PCB-131 | 50.00 | 1.98e+07 | 1.25 y | 37:02 | - | 0.8134 | n | y |
| 90 | Unk | CL6-PCB-142 | 50.00 | 2.04e+07 | 1.27 y | 37:13 | - | 0.8419 | n | n |
| 91 | Unk | CL6-PCB-132 | 50.00 | 1.90e+07 | 1.29 y | 37:32 | - | 0.7804 | n | n |
| 92 | Unk | CL6-PCB-133 | 50.00 | 2.03e+07 | 1.26 y | 38:05 | - | 0.8352 | n | n |
| 93 | Unk | CL6-PCB-165 | 50.00 | 2.52e+07 | 1.25 y | 38:29 | - | 1.0386 | n | y |
| 94 | Unk | CL6-PCB-146 | 50.00 | 2.66e+07 | 1.27 y | 38:45 | - | 1.0944 | n | n |
| 95 | Unk | CL6-PCB-161 | 50.00 | 3.07e+07 | 1.29 y | 38:53 | - | 1.2636 | n | y |
| 96 | Unk | CL6-PCB-153/168 | 100.00 | 5.14e+07 | 1.28 y | 39:25 | - | 1.0583 | n | n |
| 97 | Unk | CL6-PCB-141 | 50.00 | 2.14e+07 | 1.29 y | 39:35 | - | 0.8830 | n | y |

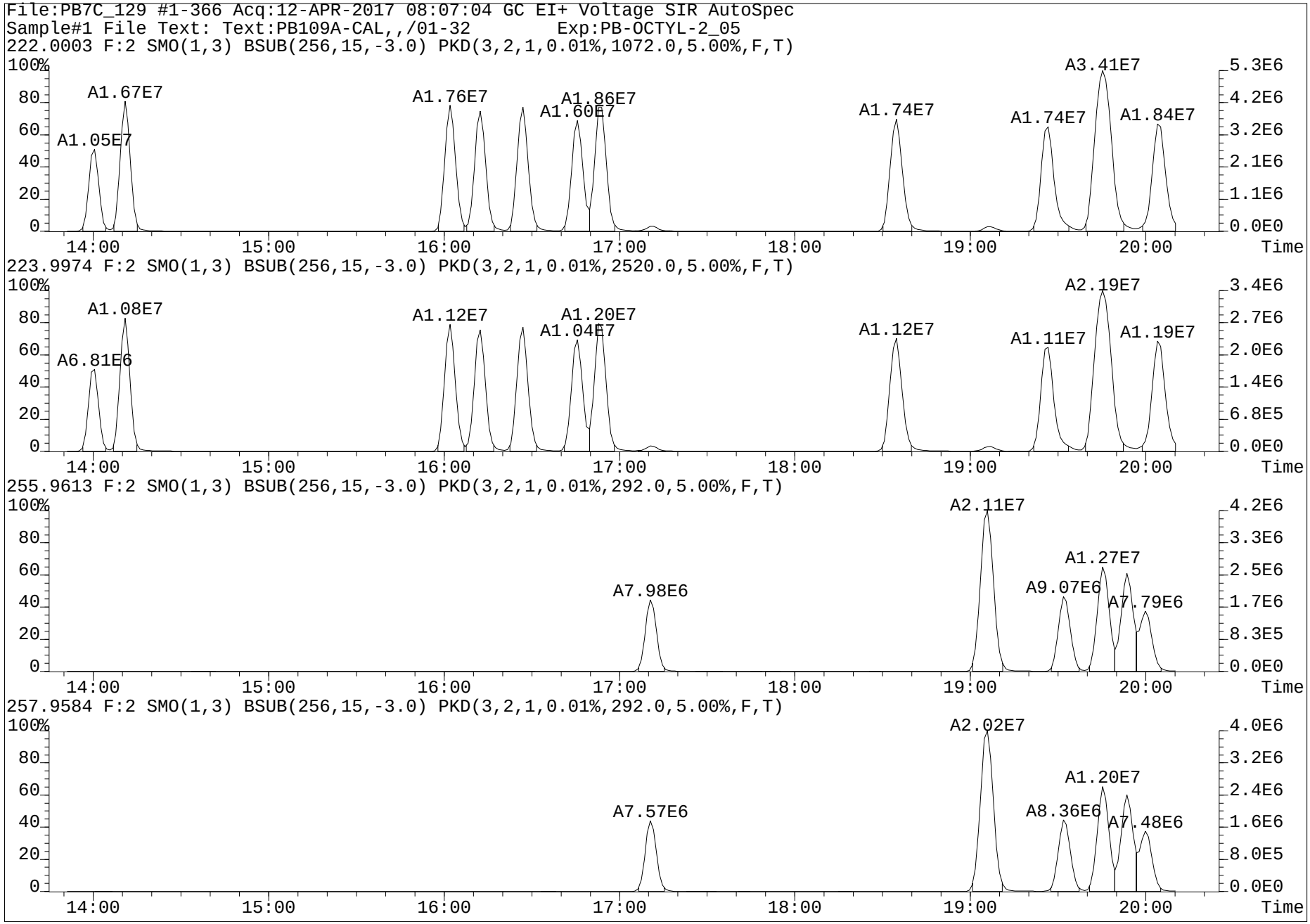
| OPUSquan | | 15-APR-2017 | | Page 3 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 50.00 | 1.86e+07 | 1.27 | y | 40:01 | - | 0.7644 | n | n |
| 99 | Unk | CL6-PCB-137 | 50.00 | 1.93e+07 | 1.22 ~~1.46~~ | n | 40:15 | - | 0.7938 | n | n |
| 1» | Unk | CL6-PCB-164 | 50.00 | 2.84e+07 | 1.28 ~~1.14~~ | y | 40:23 | - | 1.1708 | n | y |
| 1» | Unk | CL6-PCB-138/163/129/160 | 200.00 | 9.26e+07 | 1.27 | y | 40:45 | - | 0.9527 | n | y |
| 1» | Unk | CL6-PCB-158 | 50.00 | 2.99e+07 | 1.26 | y | 41:07 | - | 1.2327 | n | n |
| 1» | Unk | CL6-PCB-128/166 | 100.00 | 4.51e+07 | 1.27 | y | 42:00 | - | 0.9292 | n | n |
| 1» | Unk | CL6-PCB-159 | 50.00 | 2.79e+07 | 1.28 | y | 43:03 | - | 1.1492 | n | n |
| 1» | Unk | CL6-PCB-162 | 50.00 | 2.81e+07 | 1.29 | y | 43:21 | - | 1.1586 | n | y |
| 1» | Unk | CL7-PCB-179 | 50.00 | 2.62e+07 | 1.05 | y | 38:19 | - | 1.0032 | n | n |
| 1» | Unk | CL7-PCB-184 | 50.00 | 2.77e+07 | 1.05 | y | 38:53 | - | 1.0609 | n | n |
| 1» | Unk | CL7-PCB-176 | 50.00 | 2.54e+07 | 1.04 | y | 39:15 | - | 0.9729 | n | n |
| 1» | Unk | CL7-PCB-186 | 50.00 | 2.38e+07 | 1.04 | y | 39:43 | - | 0.9125 | n | n |
| 1» | Unk | CL7-PCB-178 | 50.00 | 1.80e+07 | 1.05 | y | 41:10 | - | 0.6899 | n | n |
| 1» | Unk | CL7-PCB-175 | 50.00 | 1.84e+07 | 1.05 | y | 41:50 | - | 0.7044 | n | n |
| 1» | Unk | CL7-PCB-187 | 50.00 | 1.93e+07 | 1.04 | y | 42:07 | - | 0.7400 | n | n |
| 1» | Unk | CL7-PCB-182 | 50.00 | 2.21e+07 | 1.04 | y | 42:19 | - | 0.8456 | n | y |
| 1» | Unk | CL7-PCB-183/185 | 100.00 | 3.82e+07 | 1.03 | y | 42:49 | - | 0.7313 | n | y |
| 1» | Unk | CL7-PCB-174 | 50.00 | 1.87e+07 | 1.05 | y | 43:00 | - | 0.7169 | n | y |
| 1» | Unk | CL7-PCB-177 | 50.00 | 2.04e+07 | 1.06 | y | 43:27 | - | 0.7806 | n | n |
| 1» | Unk | CL7-PCB-181 | 50.00 | 1.81e+07 | 1.03 | y | 43:53 | - | 0.6925 | n | n |
| 1» | Unk | CL7-PCB-171/173 | 100.00 | 3.41e+07 | 1.05 | y | 44:05 | - | 0.6530 | n | y |
| 1» | Unk | CL7-PCB-172 | 50.00 | 1.81e+07 | 1.04 | y | 45:50 | - | 0.6932 | n | n |
| 1» | Unk | CL7-PCB-192 | 50.00 | 2.12e+07 | 1.04 | y | 46:08 | - | 0.8117 | n | n |
| 1» | Unk | CL7-PCB-180/193 | 118.00 | 4.25e+07 | 1.03 | y | 46:28 | - | 0.9723 | n | y |
| 1» | Unk | CL7-PCB-191 | 50.00 | 2.30e+07 | 1.06 | y | 46:53 | - | 0.8801 | n | n |
| 1» | Unk | CL7-PCB-170 | 50.00 | 1.63e+07 | 1.05 | y | 47:49 | - | 1.0809 | n | n |
| 1» | Unk | CL7-PCB-190 | 50.00 | 2.26e+07 | 1.03 | y | 48:23 | - | 0.8639 | n | n |
| 1» | Unk | CL8-PCB-201 | 75.00 | 3.46e+07 | 0.91 | y | 44:34 | - | 1.0507 | n | n |
| 1» | Unk | CL8-PCB-204 | 75.00 | 3.34e+07 | 0.89 | y | 45:16 | - | 1.0162 | n | n |
| 1» | Unk | CL8-PCB-197/200 | 150.00 | 8.14e+07 | 0.90 | y | 45:34 | - | 1.2369 | n | y |
| 1» | Unk | CL8-PCB-198/199 | 150.00 | 4.72e+07 | 0.88 | y | 48:32 | - | 0.7176 | n | n |
| 1» | Unk | CL8-PCB-196 | 75.00 | 2.67e+07 | 0.89 | y | 49:15 | - | 0.8108 | n | y |
| 1» | Unk | CL8-PCB-203 | 75.00 | 2.68e+07 | 0.91 | y | 49:28 | - | 0.8134 | n | n |
| 1» | Unk | CL8-PCB-195 | 75.00 | 2.75e+07 | 0.89 | y | 50:51 | - | 0.8356 | n | n |
| 1» | Unk | CL8-PCB-194 | 75.00 | 2.57e+07 | 0.91 | y | 53:19 | - | 0.7813 | n | n |
| 1» | Unk | CL9-PCB-207 | 75.00 | 2.91e+07 | 0.79 | y | 51:35 | - | 1.1340 | n | n |
| 1» | IS | 13C-CL1-PCB-1 | 100.00 | 1.07e+08 | 3.19 | y | 11:30 | - | 0.9631 | n | n |
| 1» | IS | 13C-CL1-PCB-3 | 100.00 | 1.03e+08 | 3.13 | y | 13:44 | - | 0.9278 | n | n |
| 1» | IS | 13C-CL2-PCB-4 | 100.00 | 6.82e+07 | 1.59 | y | 13:59 | - | 0.6132 | n | n |
| 1» | IS | 13C-CL2-PCB-15 | 100.00 | 1.12e+08 | 1.56 | y | 20:04 | - | 1.0107 | n | n |
| 1» | IS | 13C-CL3-PCB-19 | 100.00 | 5.70e+07 | 1.05 | y | 17:10 | - | 0.5125 | n | n |
| 1» | IS | 13C-CL3-PCB-37 | 100.00 | 9.73e+07 | 1.06 | y | 27:21 | - | 1.6735 | n | n |
| 1» | REF | 13C-CL4-CHECK | 100.00 | 7.85e+07 | 0.81 | y | 20:20 | - | 1.3502 | n | n |
| 1» | IS | 13C-CL4-PCB-81 | 100.00 | 7.41e+07 | 0.78 | y | 34:24 | - | 1.2755 | n | n |
| 1» | IS | 13C-CL4-PCB-77 | 100.00 | 7.42e+07 | 0.79 | y | 34:59 | - | 1.2759 | n | n |
| 1» | IS | 13C-CL5-PCB-104 | 100.00 | 6.56e+07 | 1.58 | y | 26:03 | - | 1.3973 | n | n |
| 1» | IS | 13C-CL5-PCB-123 | 100.00 | 6.08e+07 | 1.58 | y | 37:05 | - | 1.2942 | n | n |
| 1» | IS | 13C-CL5-PCB-118 | 100.00 | 5.95e+07 | 1.61 | y | 37:25 | - | 1.2661 | n | n |
| 1» | IS | 13C-CL5-PCB-114 | 100.00 | 5.82e+07 | 1.61 | y | 37:58 | - | 1.2392 | n | n |
| 1» | IS | 13C-CL5-PCB-105 | 100.00 | 5.87e+07 | 1.59 | y | 38:38 | - | 1.2505 | n | n |
| 1» | IS | 13C-CL5-PCB-126 | 100.00 | 5.11e+07 | 1.62 | y | 41:53 | - | 1.0884 | n | n |

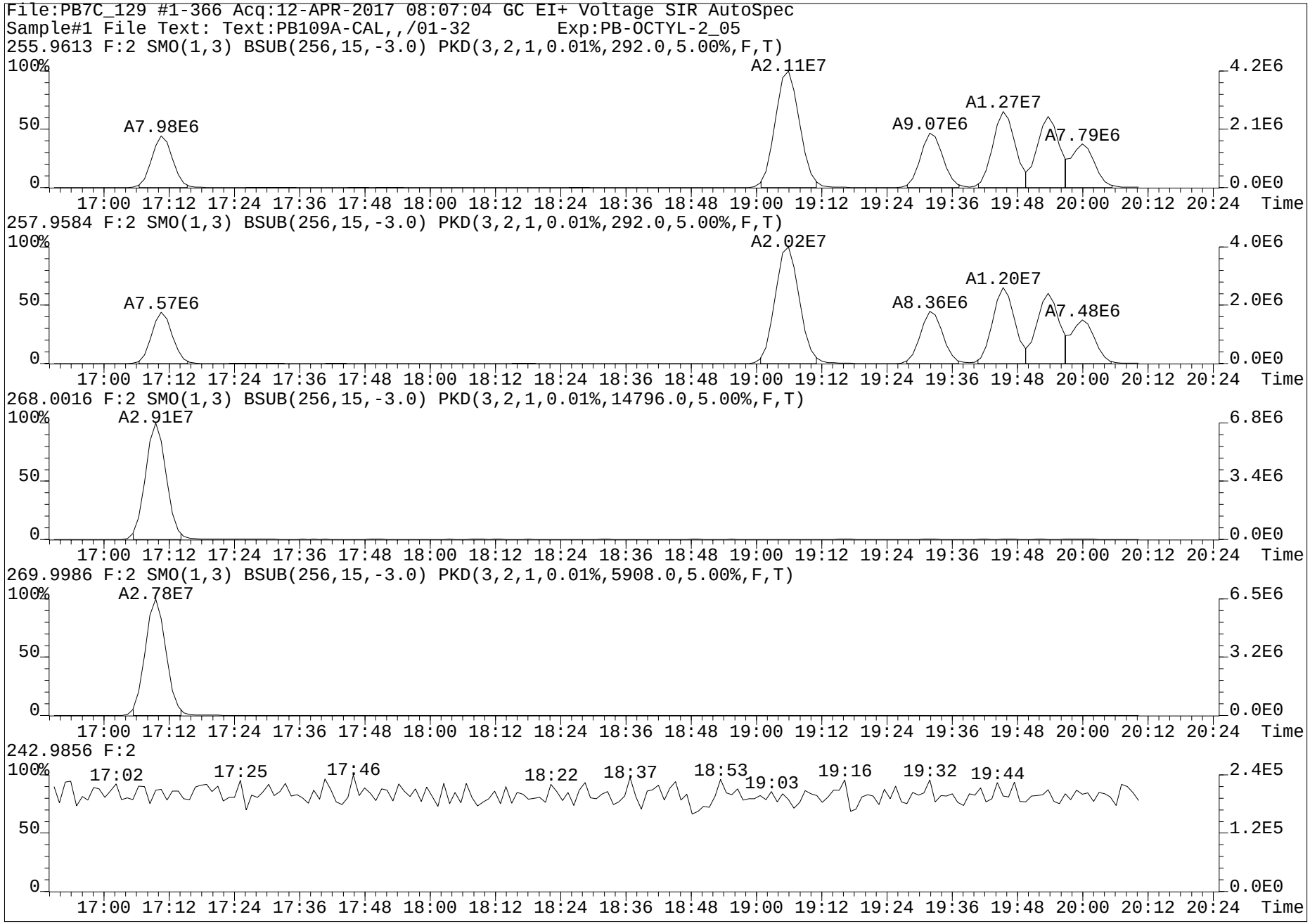
SSH 21-Apr-2017

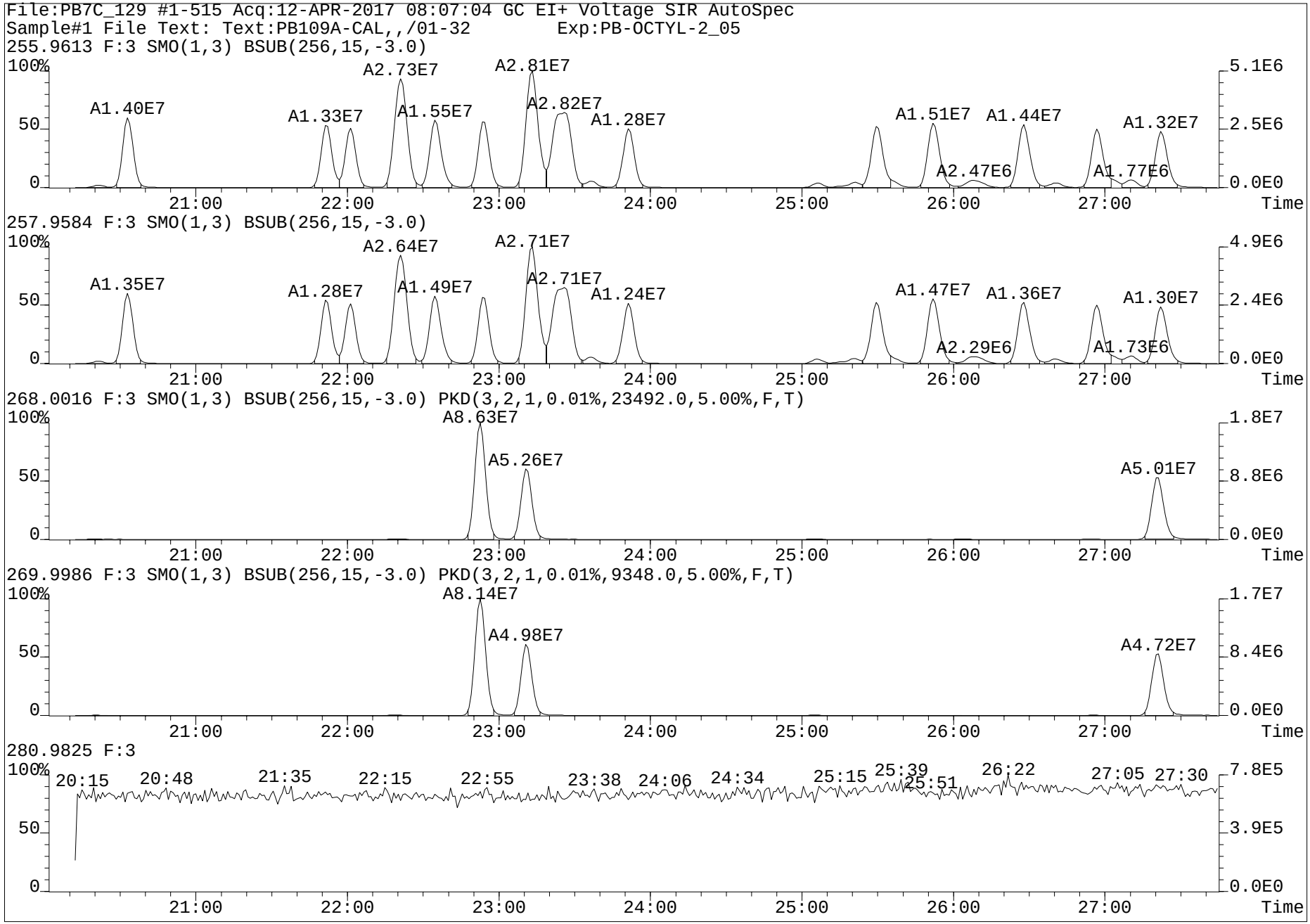
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1» | IS | 13C-CL6-PCB-155 | 100.00 | 6.07e+07 | 1.26 y | 31:59 | - | 1.5424 | n | n |
| 1» | IS | 13C-CL6-PCB-167 | 100.00 | 4.60e+07 | 1.26 y | 43:50 | - | 1.1684 | n | n |
| 1» | IS | 13C-CL6-PCB-156/157 | 200.00 | 9.12e+07 | 1.27 y | 45:02 | - | 1.1591 | n | n |
| 1» | IS | 13C-CL6-PCB-169 | 100.00 | 4.51e+07 | 1.28 y | 48:27 | - | 1.1473 | n | n |
| 1» | IS | 13C-CL7-PCB-188 | 100.00 | 5.45e+07 | 1.06 y | 37:57 | - | 1.8806 | n | n |
| 1» | IS | 13C-CL7-PCB-180 | 100.00 | 3.70e+07 | 1.04 y | 46:29 | - | 1.2775 | n | n |
| 1» | IS | 13C-CL7-PCB-170 | 100.00 | 3.02e+07 | 1.05 y | 47:48 | - | 1.0409 | n | n |
| 1» | IS | 13C-CL8-PCB-202 | 100.00 | 4.66e+07 | 0.90 y | 43:34 | - | 1.6097 | n | n |
| 1» | IS | 13C-CL8-PCB-205 | 100.00 | 4.11e+07 | 0.91 y | 53:47 | - | 1.4178 | n | n |
| 1» | IS | 13C-CL9-PCB-208 | 100.00 | 3.97e+07 | 0.76 y | 50:34 | - | 1.3705 | n | n |
| 1» | IS | 13C-CL9-PCB-206 | 100.00 | 2.88e+07 | 0.79 y | 55:36 | - | 0.9947 | n | n |
| 1» | RS/RT | 13C-CL2-PCB-9 | 100.00 | 1.11e+08 | 1.59 y | 16:01 | 1.11e+06 | - | n | n |
| 1» | RS/RT | 13C-CL4-PCB-52 | 100.00 | 5.81e+07 | 0.79 y | 25:04 | 5.81e+05 | - | n | n |
| 1» | RS/RT | 13C-CL5-PCB-101 | 100.00 | 4.70e+07 | 1.60 y | 32:13 | 4.70e+05 | - | n | n |
| 1» | RS/RT | 13C-CL6-PCB-138 | 100.00 | 3.93e+07 | 1.29 y | 40:40 | 3.93e+05 | - | n | n |
| 1» | RS/RT | 13C-CL8-PCB-194 | 100.00 | 2.90e+07 | 0.91 y | 53:17 | 2.90e+05 | - | n | n |
| 1» | C/Up | 13C-CL3-PCB-28 | 100.00 | 1.02e+08 | 1.06 y | 23:11 | - | 1.7621 | n | n |
| 1» | C/Up | 13C-CL5-PCB-111 | 100.00 | 5.87e+07 | 1.60 y | 35:02 | - | 1.2492 | n | n |
| 1» | C/UP | 13C-CL7-PCB-178 | 100.00 | 3.49e+07 | 1.05 y | 41:09 | - | 0.8871 | n | n |
| 1» | IS | 13C-CL4-PCB-54 | 100.00 | 7.85e+07 | 0.81 y | 20:20 | - | 1.3502 | n | n |
| 1» | Unk | CL7-PCB-189 | 50.00 | 2.57e+07 | 1.06 y | 51:07 | - | 1.0290 | n | n |
| 1» | IS | 13C-CL7-PCB-189 | 100.00 | 5.00e+07 | 1.05 y | 51:06 | - | 1.7252 | n | n |
| 1» | Unk | CL10-PCB-209 | 75.00 | 2.75e+07 | 1.19 y | 57:18 | - | 1.0426 | n | n |
| 1» | IS | 13C-CL10-PCB-209 | 100.00 | 3.51e+07 | 1.17 y | 57:17 | - | 1.2126 | n | n |
| 1» | LM | CL1-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL2-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL4-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL4-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL9-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL10-LOCK | 0.00 | - | | - | - | - | n | n |

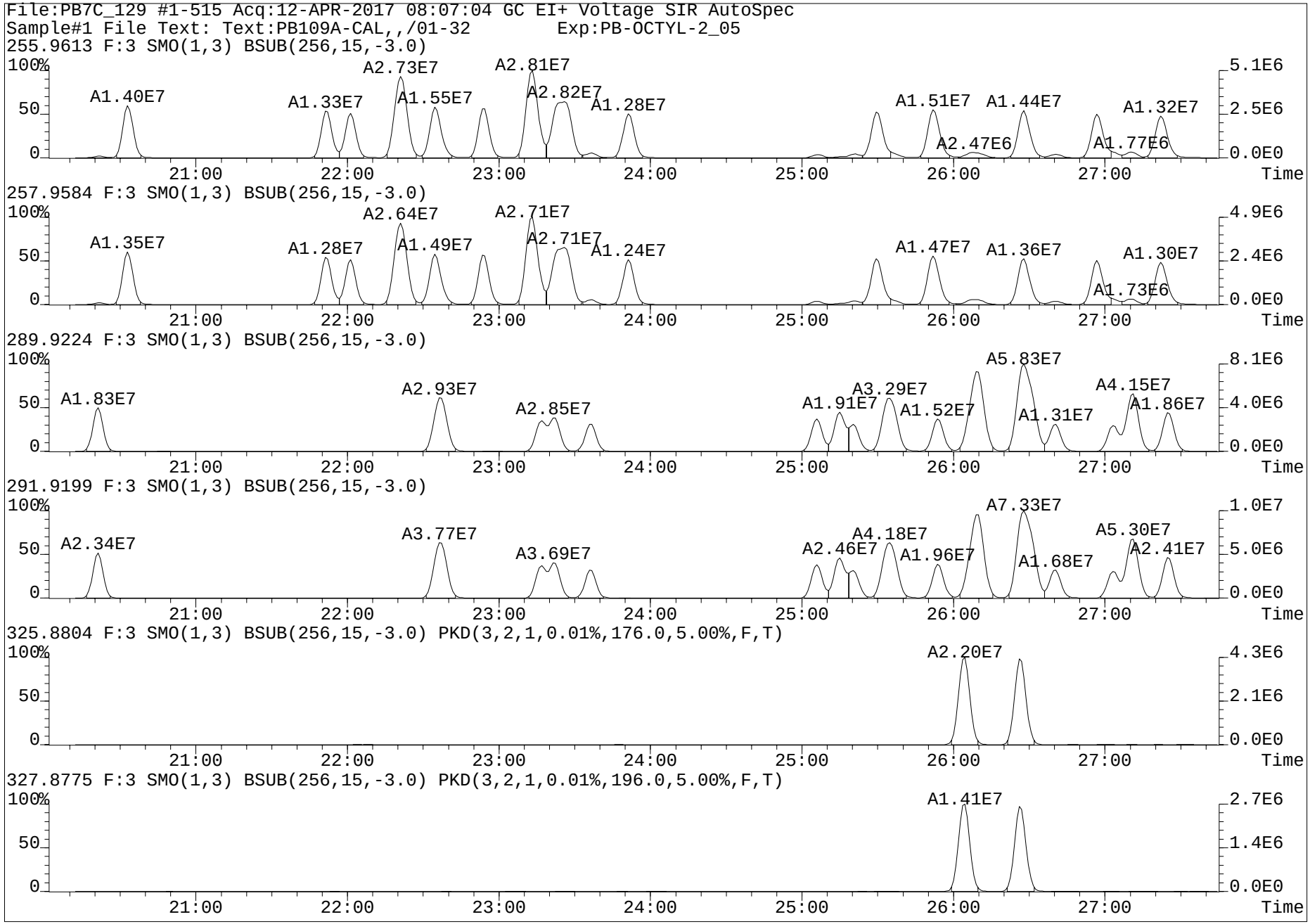

File:PB7C_129 #1-184 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
188.0393 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,520.0,5.00%,F,T)
A2.22E7
A2.24E7
190.0363 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,724.0,5.00%,F,T)
A7.04E6
A7.08E6
200.0795 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1872.0,5.00%,F,T)
A8.15E7
A7.82E7
202.0766 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,11840.0,5.00%,F,T)
A2.55E7
A2.49E7
218.9856
11:10 11:20 11:41 12:03 12:16 12:42 12:55 13:21 13:31 13:44
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
6.7E6
3.4E6
0.0E0
2.2E6
1.1E6
2.5E7
1.3E7
7.9E6
3.9E6
1.2E6
6.2E5

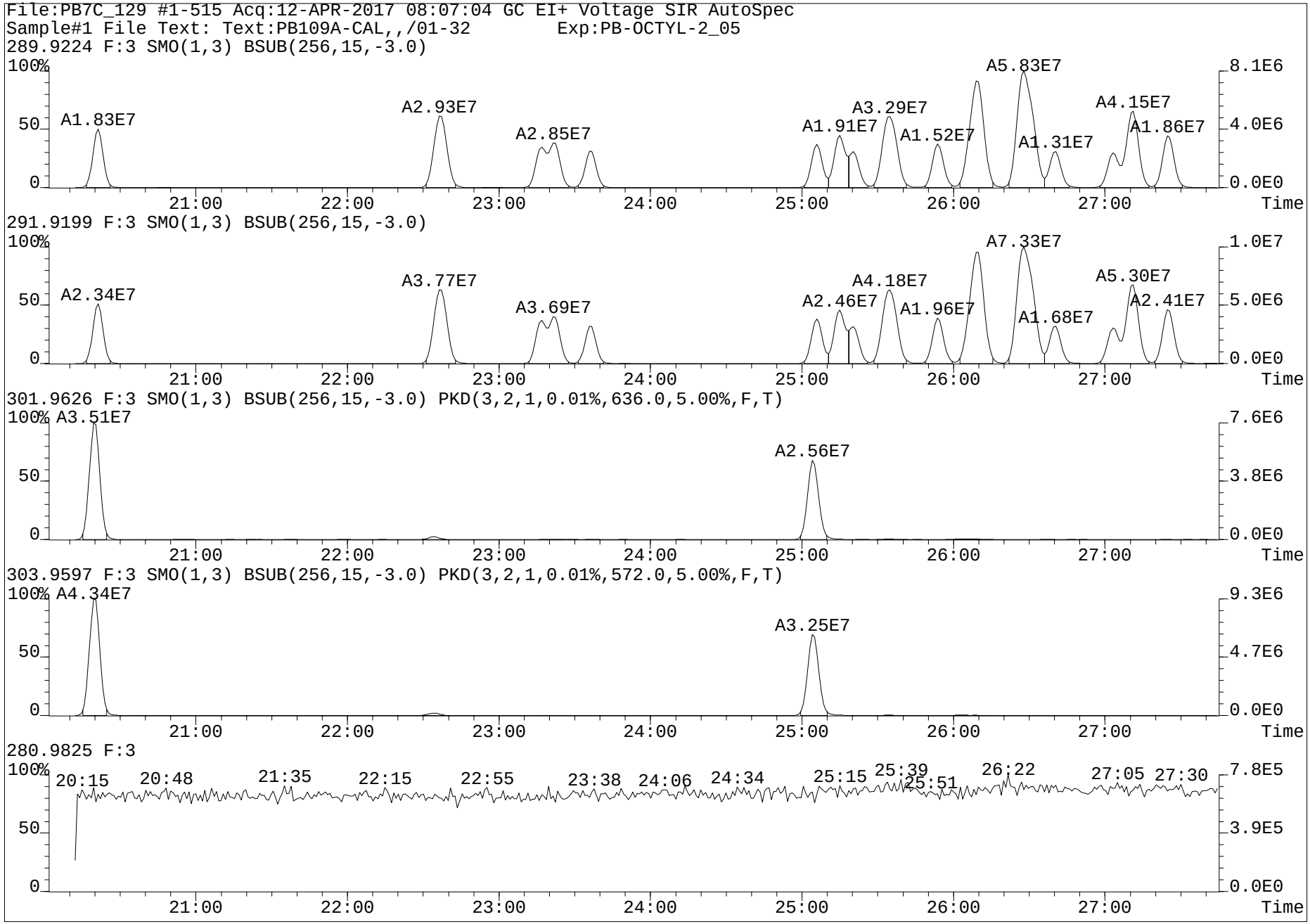

File:PB7C_129 #1-366 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1072.0,5.00%,F,T)
A1.05E7
A1.67E7
A1.76E7
A1.86E7
A1.74E7
A1.74E7
A3.41E7
A1.84E7
5.3E6
2.7E6
0.0E0
223.9974 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2520.0,5.00%,F,T)
A6.81E6
A1.08E7
A1.12E7
A1.20E7
A1.12E7
A1.11E7
A2.19E7
A1.19E7
3.4E6
1.7E6
0.0E0
234.0406 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3136.0,5.00%,F,T)
A4.19E7
A6.82E7
A6.85E7
A6.84E7
1.6E7
8.1E6
0.0E0
236.0376 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1984.0,5.00%,F,T)
A2.63E7
A4.29E7
A4.35E7
A4.39E7
1.0E7
5.1E6
0.0E0
242.9856 F:2
13:54
14:38
14:59
15:30
16:17
16:54
17:25
17:46
18:14
18:37
19:16
19:44
2.6E5
1.3E5
0.0E0
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time

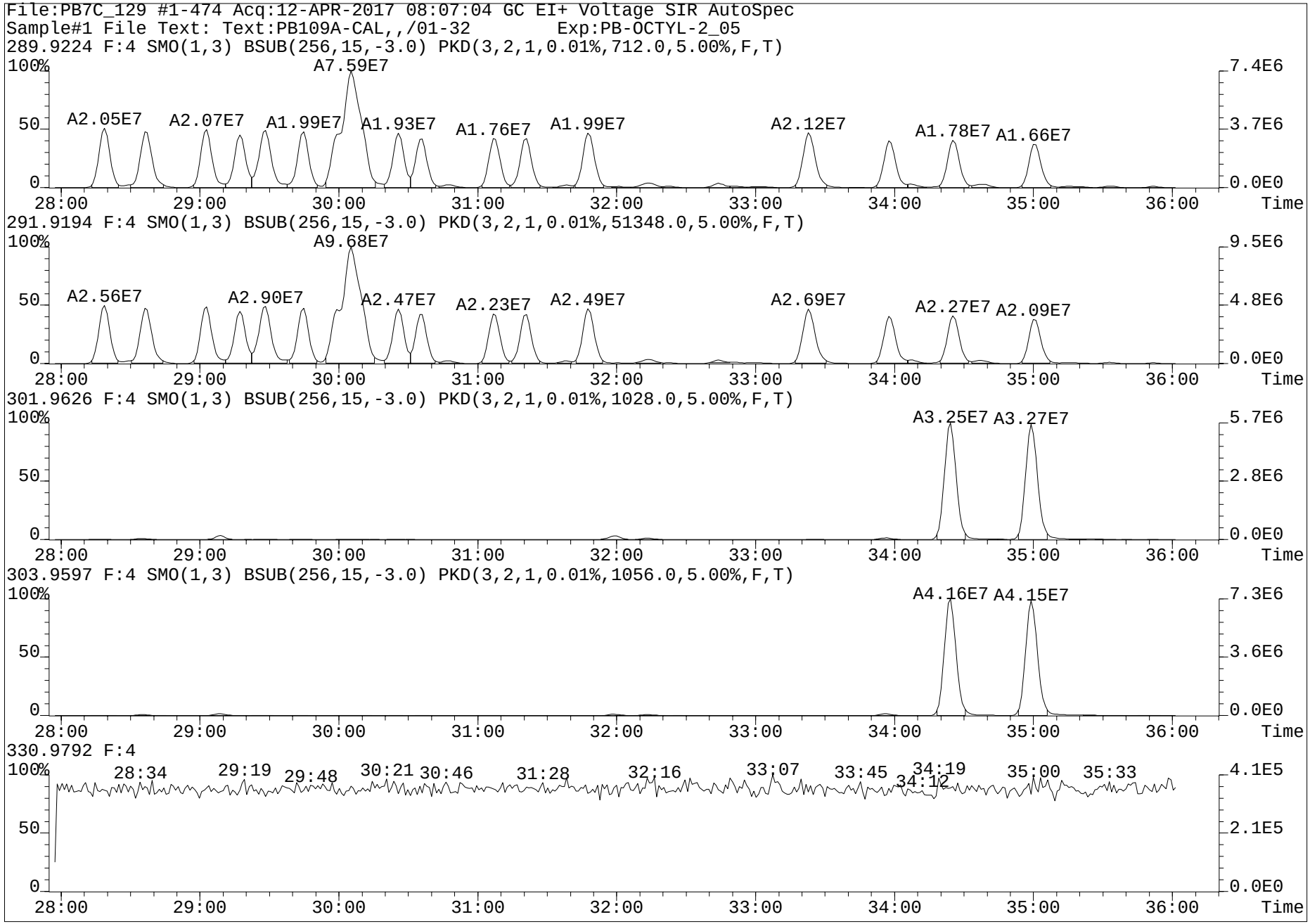

File:PB7C_129 #1-366 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1072.0,5.00%,F,T)
A1.67E7
A1.05E7
A1.76E7
A1.86E7
A1.60E7
A1.74E7
A3.41E7
A1.74E7
A1.84E7
223.9974 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2520.0,5.00%,F,T)
A1.08E7
A6.81E6
A1.12E7
A1.20E7
A1.04E7
A1.12E7
A2.19E7
A1.11E7
A1.19E7
255.9613 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A7.98E6
A2.11E7
A1.27E7
A9.07E6
A7.79E6
257.9584 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A7.57E6
A2.02E7
A1.20E7
A8.36E6
A7.48E6
Time

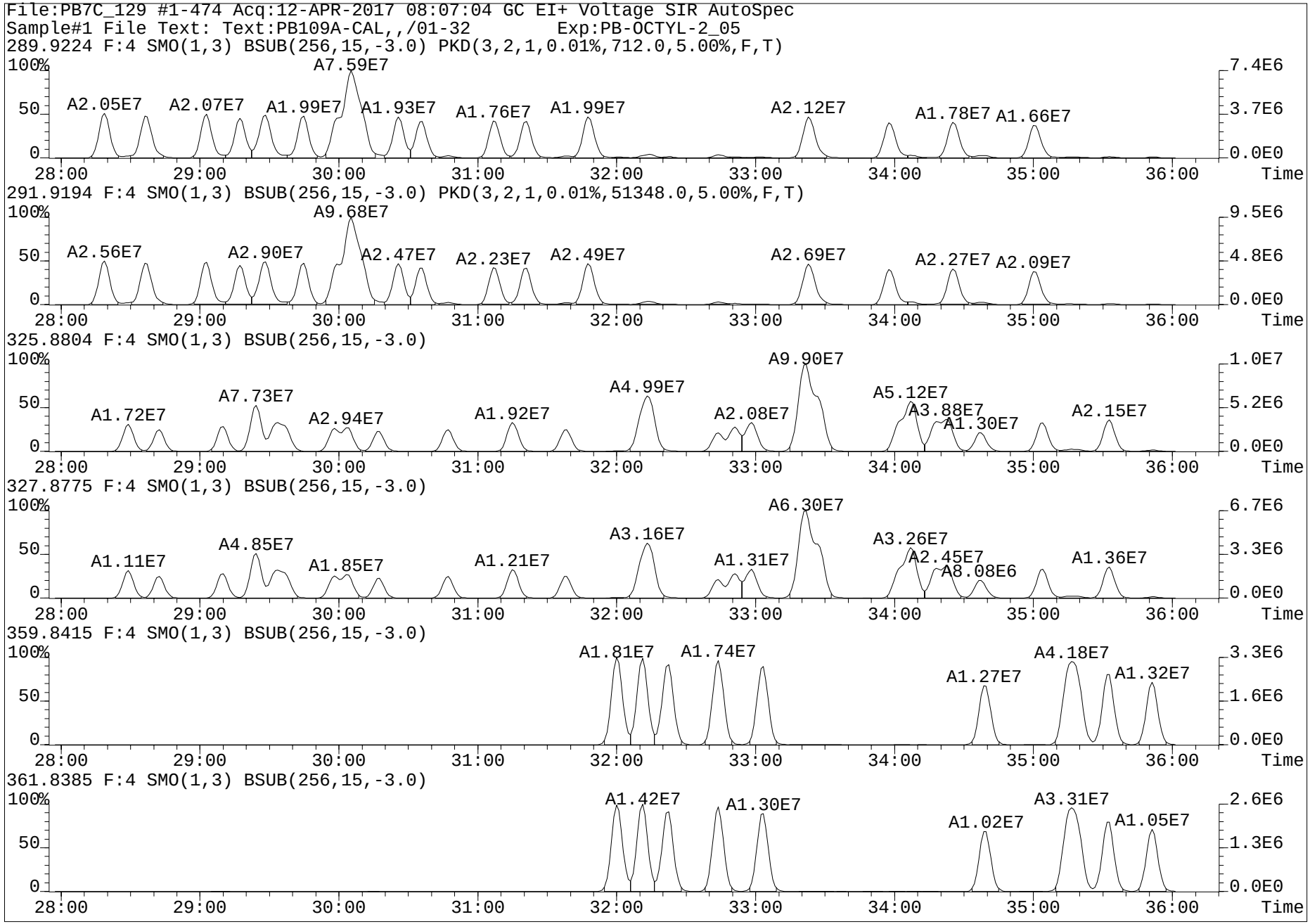

File:PB7C_129 #1-366 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A7.98E6
A2.11E7
A9.07E6
A1.27E7
A7.79E6
257.9584 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A7.57E6
A2.02E7
A8.36E6
A1.20E7
A7.48E6
268.0016 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,14796.0,5.00%,F,T)
A2.91E7
269.9986 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,5908.0,5.00%,F,T)
A2.78E7
242.9856 F:2
17:02
17:25
17:46
18:22
18:37
18:53
19:03
19:16
19:32
19:44
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
4.2E6
2.1E6
0.0E0
4.0E6
2.0E6
6.8E6
3.4E6
6.5E6
3.2E6
2.4E5
1.2E5

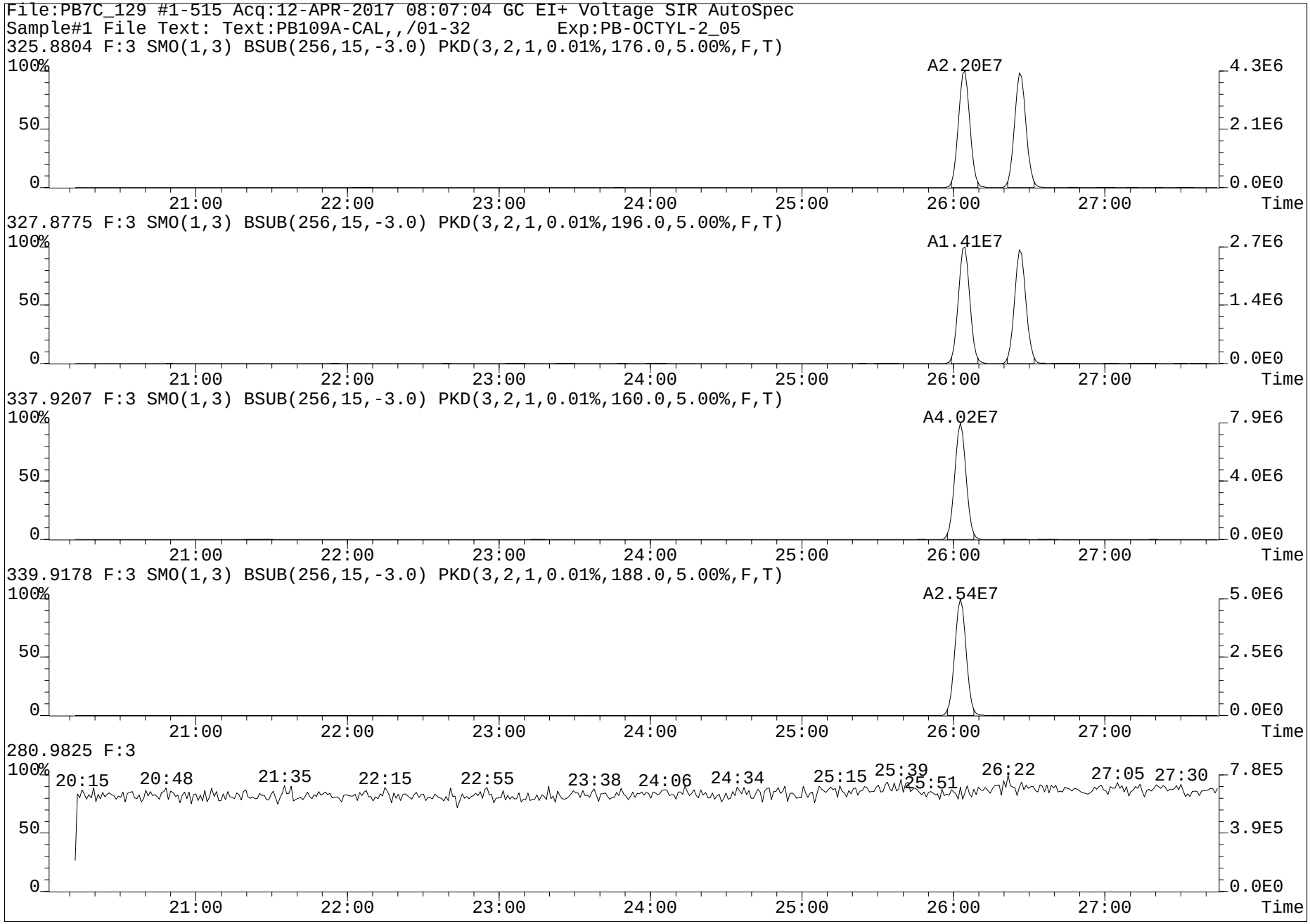

File:PB7C_129 #1-515 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.40E7
A1.33E7
A2.73E7
A1.55E7
A2.81E7
A2.82E7
A1.28E7
A1.51E7
A1.44E7
A2.47E6
A1.77E6
A1.32E7
257.9584 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.35E7
A1.28E7
A2.64E7
A1.49E7
A2.71E7
A2.71E7
A1.24E7
A1.47E7
A1.36E7
A2.29E6
A1.73E6
A1.30E7
268.0016 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,23492.0,5.00%,F,T)
A8.63E7
A5.26E7
A5.01E7
269.9986 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,9348.0,5.00%,F,T)
A8.14E7
A4.98E7
A4.72E7
280.9825 F:3
20:15
20:48
21:35
22:15
22:55
23:38
24:06
24:34
25:15
25:39
25:51
26:22
27:05
27:30
100%
50
0
5.1E6
2.5E6
0.0E0
4.9E6
2.4E6
1.8E7
8.8E6
1.7E7
8.4E6
7.8E5
3.9E5
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

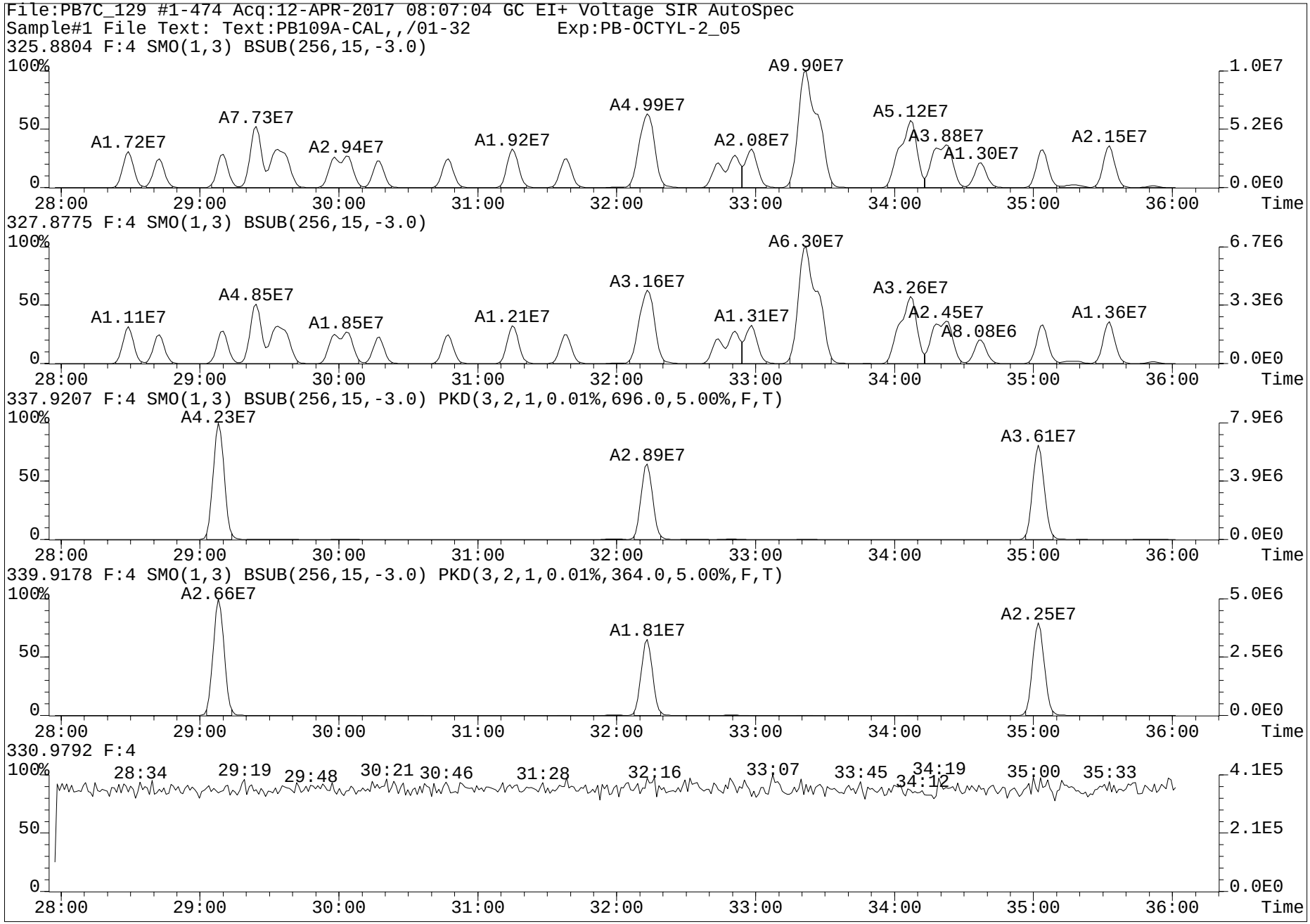

File:PB7C_129 #1-515 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.40E7
A2.73E7
A1.33E7
A1.55E7
A2.81E7
A2.82E7
A1.28E7
A1.51E7
A1.44E7
A1.32E7
A2.47E6
A1.77E6
257.9584 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.35E7
A2.64E7
A1.28E7
A1.49E7
A2.71E7
A2.71E7
A1.24E7
A1.47E7
A1.36E7
A1.30E7
A1.73E6
289.9224 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.83E7
A2.93E7
A2.85E7
A1.91E7
A3.29E7
A1.52E7
A5.83E7
A1.31E7
A4.15E7
A1.86E7
291.9199 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.34E7
A3.77E7
A3.69E7
A2.46E7
A4.18E7
A1.96E7
A7.33E7
A1.68E7
A5.30E7
A2.41E7
325.8804 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A2.20E7
327.8775 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,196.0,5.00%,F,T)
A1.41E7
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
5.1E6
2.5E6
0.0E0
4.9E6
2.4E6
0.0E0
8.1E6
4.0E6
0.0E0
1.0E7
5.0E6
0.0E0
4.3E6
2.1E6
0.0E0
2.7E6
1.4E6
0.0E0

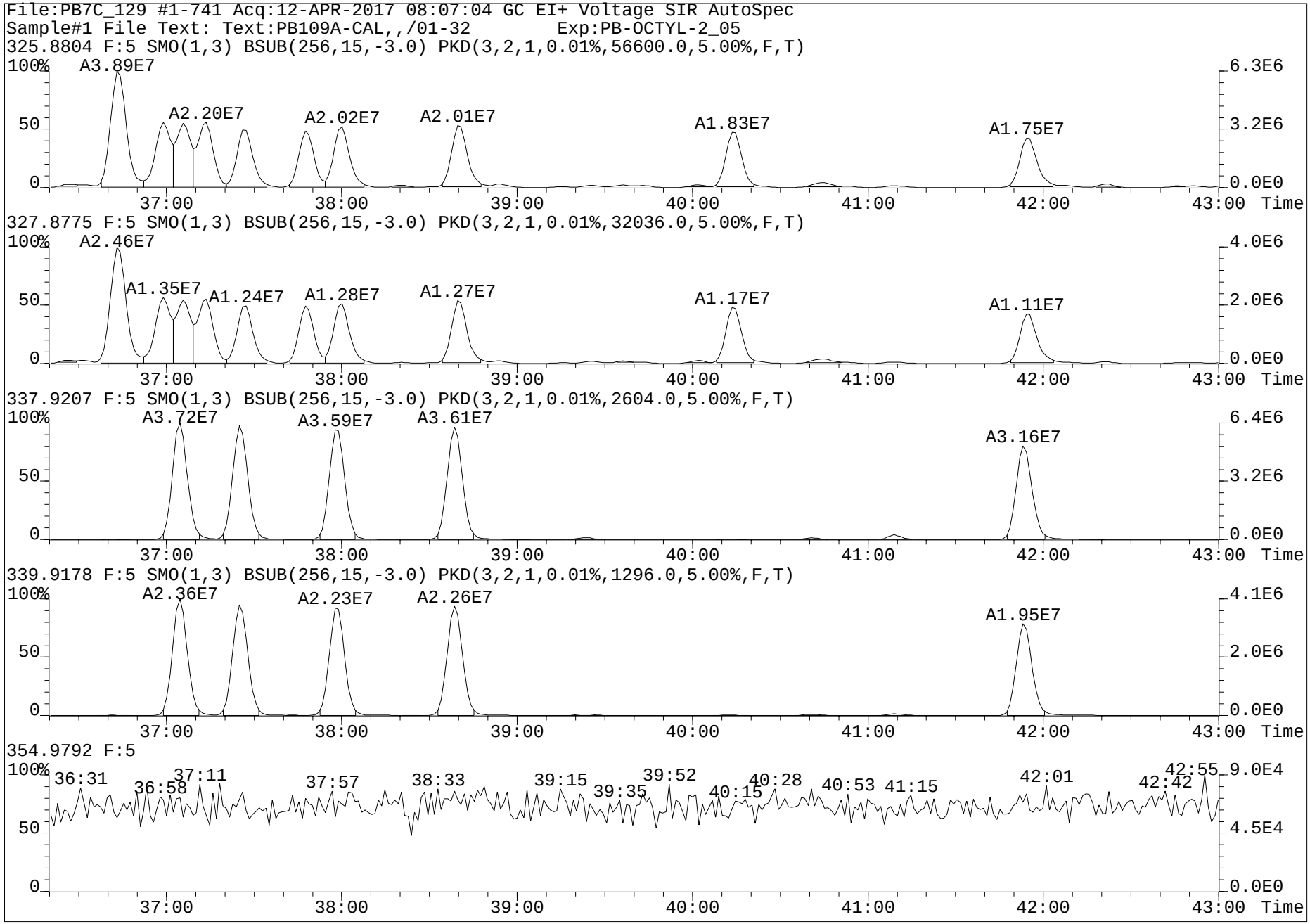

File:PB7C_129 #1-515 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.83E7
A2.93E7
A2.85E7
A1.91E7
A3.29E7
A1.52E7
A5.83E7
A1.31E7
A4.15E7
A1.86E7
291.9199 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.34E7
A3.77E7
A3.69E7
A2.46E7
A4.18E7
A1.96E7
A7.33E7
A1.68E7
A5.30E7
A2.41E7
301.9626 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,636.0,5.00%,F,T)
A3.51E7
A2.56E7
303.9597 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,572.0,5.00%,F,T)
A4.34E7
A3.25E7
280.9825 F:3
20:15
20:48
21:35
22:15
22:55
23:38
24:06
24:34
25:15
25:39
25:51
26:22
27:05
27:30
100%
50
0
8.1E6
4.0E6
0.0E0
1.0E7
5.0E6
7.6E6
3.8E6
9.3E6
4.7E6
7.8E5
3.9E5
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

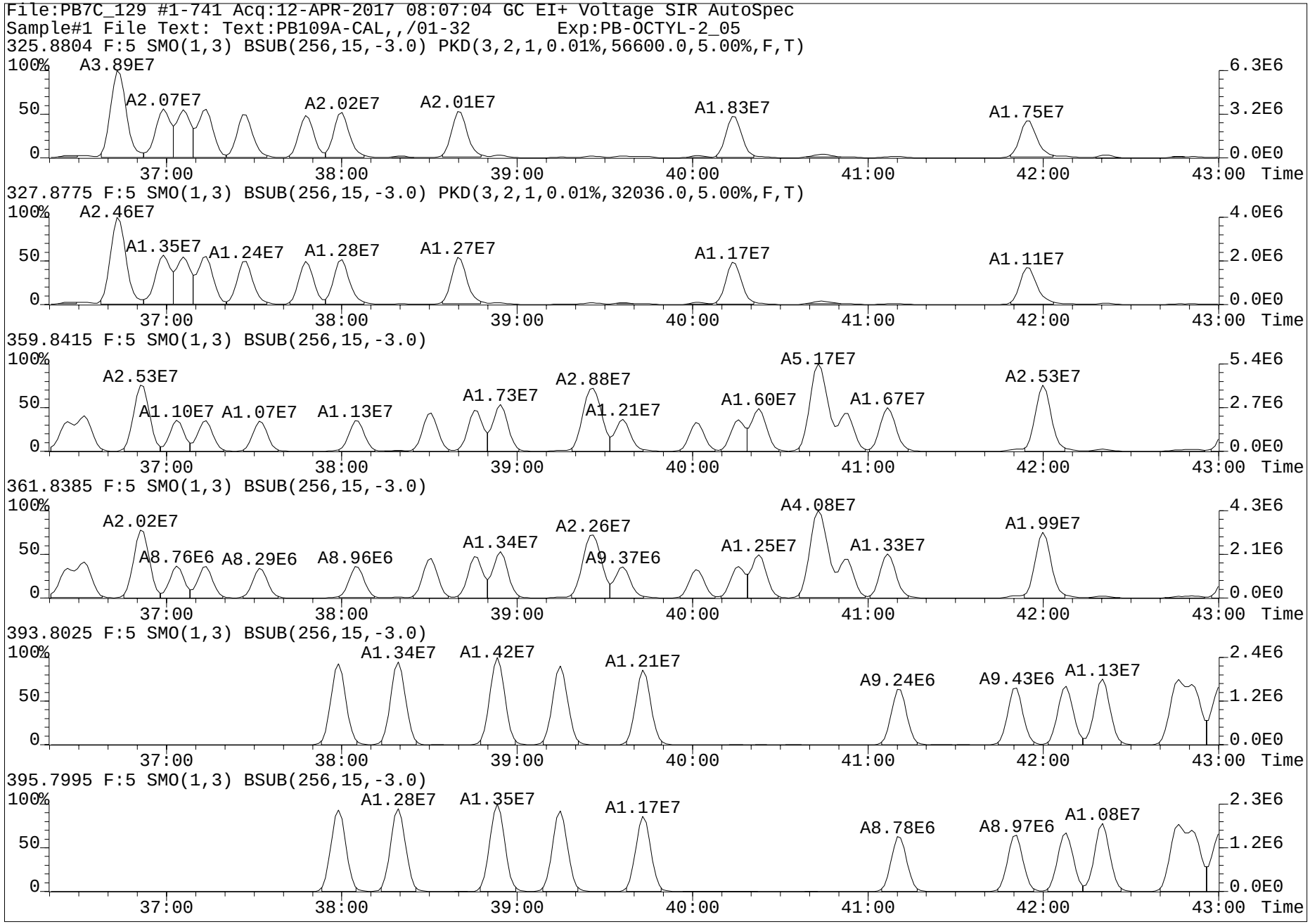

File:PB7C_129 #1-474 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,712.0,5.00%,F,T)
A7.59E7
A2.05E7
A2.07E7
A1.99E7
A1.93E7
A1.76E7
A1.99E7
A2.12E7
A1.78E7
A1.66E7
291.9194 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,51348.0,5.00%,F,T)
A9.68E7
A2.56E7
A2.90E7
A2.47E7
A2.23E7
A2.49E7
A2.69E7
A2.27E7
A2.09E7
301.9626 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1028.0,5.00%,F,T)
A3.25E7
A3.27E7
303.9597 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1056.0,5.00%,F,T)
A4.16E7
A4.15E7
330.9792 F:4
28:34
29:19
29:48
30:21
30:46
31:28
32:16
33:07
33:45
34:19
34:12
35:00
35:33
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
7.4E6
3.7E6
0.0E0
9.5E6
4.8E6
5.7E6
2.8E6
7.3E6
3.6E6
4.1E5
2.1E5

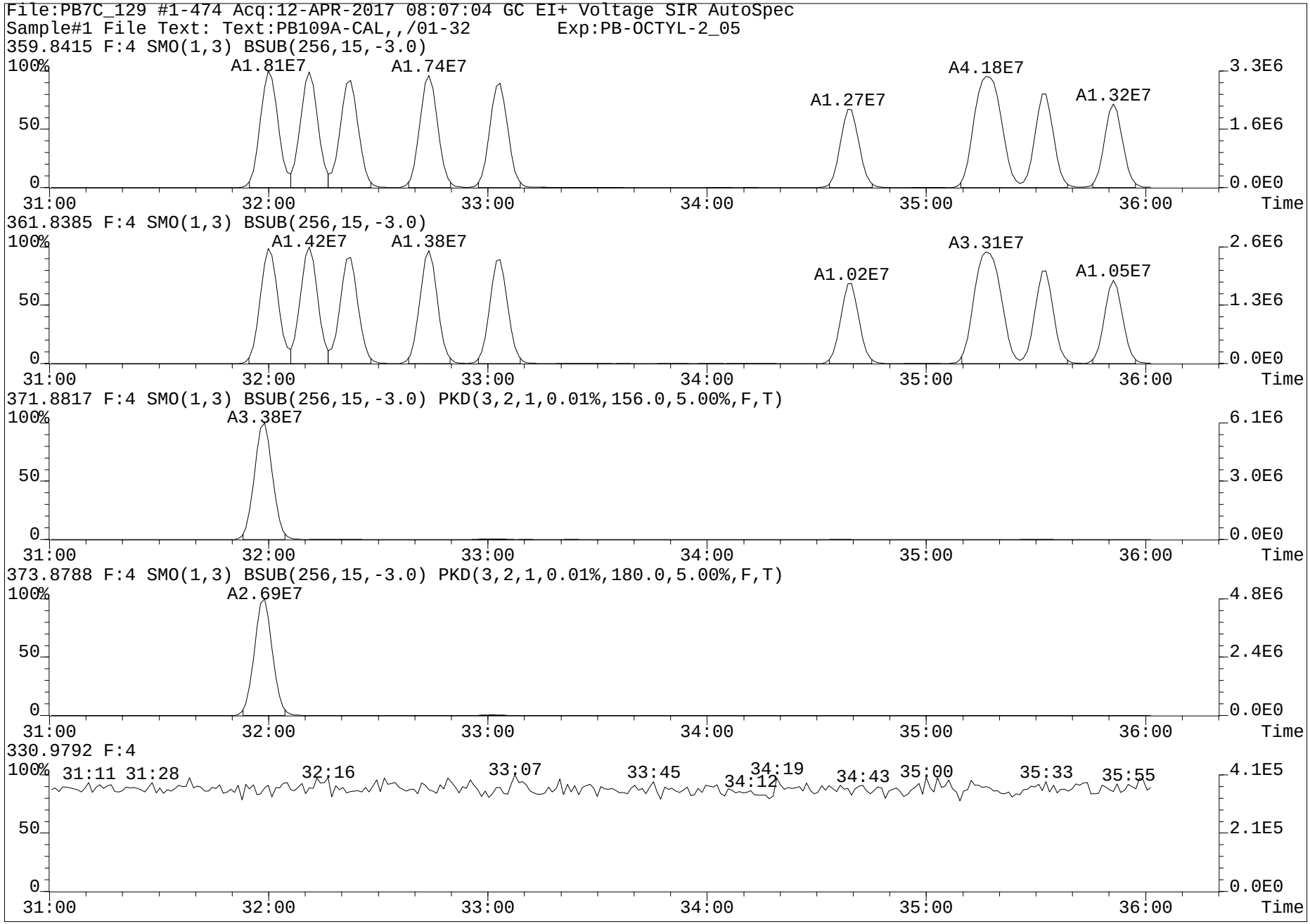

File:PB7C_129 #1-474 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,712.0,5.00%,F,T)
A7.59E7
A2.05E7
A2.07E7
A1.99E7
A1.93E7
A1.76E7
A1.99E7
A2.12E7
A1.78E7
A1.66E7
291.9194 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,51348.0,5.00%,F,T)
A9.68E7
A2.56E7
A2.90E7
A2.47E7
A2.23E7
A2.49E7
A2.69E7
A2.27E7
A2.09E7
325.8804 F:4 SMO(1,3) BSUB(256,15,-3.0)
A9.90E7
A4.99E7
A7.73E7
A5.12E7
A3.88E7
A1.72E7
A2.94E7
A1.92E7
A2.08E7
A1.30E7
A2.15E7
327.8775 F:4 SMO(1,3) BSUB(256,15,-3.0)
A6.30E7
A3.16E7
A4.85E7
A3.26E7
A2.45E7
A1.11E7
A1.85E7
A1.21E7
A1.31E7
A8.08E6
A1.36E7
359.8415 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.81E7
A1.74E7
A4.18E7
A1.27E7
A1.32E7
361.8385 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.42E7
A1.30E7
A3.31E7
A1.02E7
A1.05E7
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
7.4E6
3.7E6
0.0E0
9.5E6
4.8E6
1.0E7
5.2E6
6.7E6
3.3E6
3.3E6
1.6E6
2.6E6
1.3E6

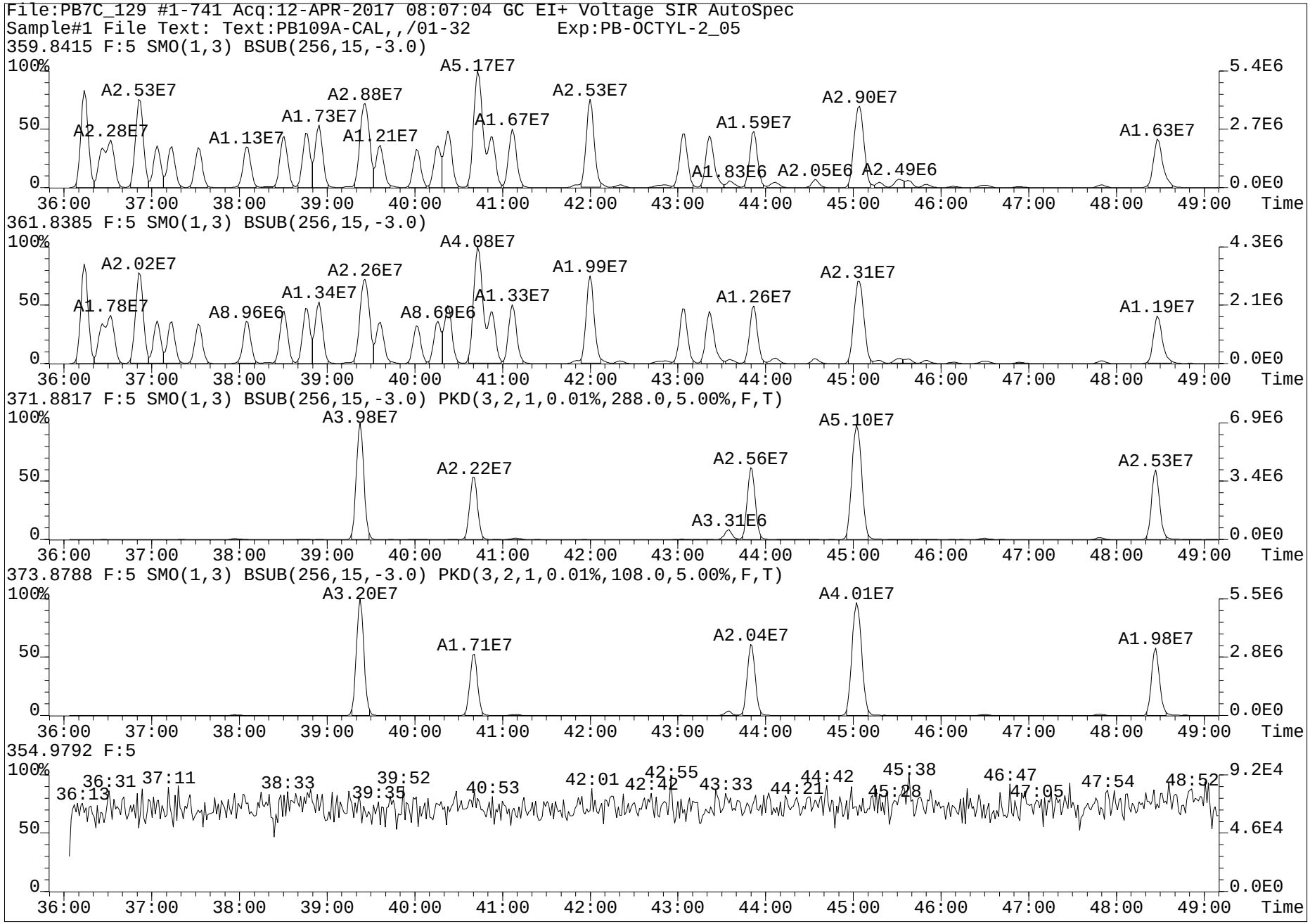

File:PB7C_129 #1-515 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,176.0,5.00%,F,T)
A2.20E7
4.3E6
2.1E6
0.0E0
327.8775 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,196.0,5.00%,F,T)
A1.41E7
2.7E6
1.4E6
0.0E0
337.9207 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A4.02E7
7.9E6
4.0E6
0.0E0
339.9178 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,188.0,5.00%,F,T)
A2.54E7
5.0E6
2.5E6
0.0E0
280.9825 F:3
20:15 20:48 21:35 22:15 22:55 23:38 24:06 24:34 25:15 25:39 25:51 26:22 27:05 27:30
7.8E5
3.9E5
0.0E0
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time

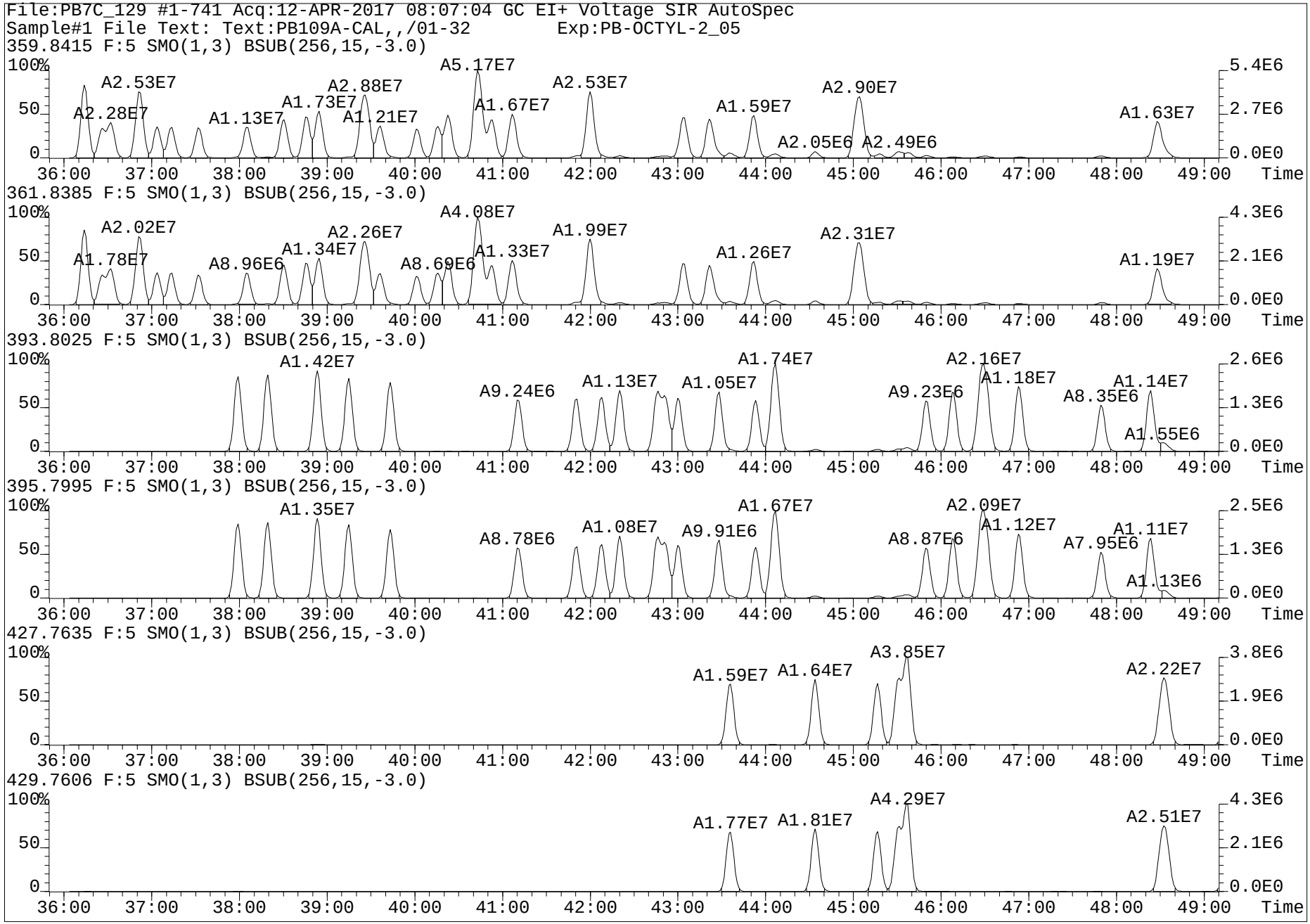

File:PB7C_129 #1-474 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.72E7
A7.73E7
A2.94E7
A1.92E7
A4.99E7
A2.08E7
A9.90E7
A5.12E7
A3.88E7
A1.30E7
A2.15E7
327.8775 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.11E7
A4.85E7
A1.85E7
A1.21E7
A3.16E7
A1.31E7
A6.30E7
A3.26E7
A2.45E7
A8.08E6
A1.36E7
337.9207 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,696.0,5.00%,F,T)
A4.23E7
A2.89E7
A3.61E7
339.9178 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,364.0,5.00%,F,T)
A2.66E7
A1.81E7
A2.25E7
330.9792 F:4
28:34
29:19
29:48
30:21
30:46
31:28
32:16
33:07
33:45
34:19
34:12
35:00
35:33
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
1.0E7
5.2E6
0.0E0
6.7E6
3.3E6
7.9E6
3.9E6
5.0E6
2.5E6
4.1E5
2.1E5

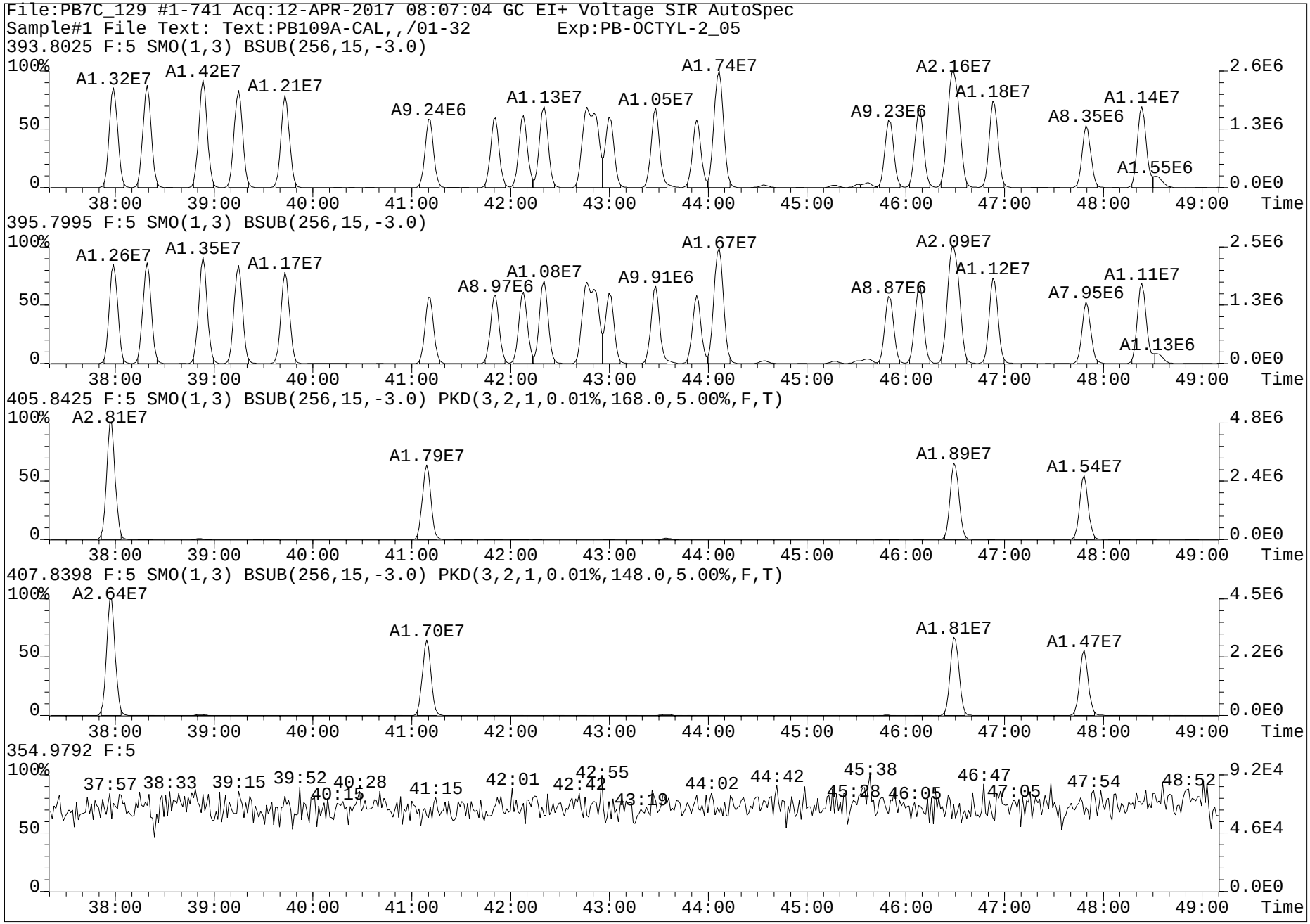

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,56600.0,5.00%,F,T)
A3.89E7
A2.20E7
A2.02E7
A2.01E7
A1.83E7
A1.75E7
6.3E6
3.2E6
0.0E0
327.8775 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,32036.0,5.00%,F,T)
A2.46E7
A1.35E7
A1.24E7
A1.28E7
A1.27E7
A1.17E7
A1.11E7
4.0E6
2.0E6
0.0E0
337.9207 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2604.0,5.00%,F,T)
A3.72E7
A3.59E7
A3.61E7
A3.16E7
6.4E6
3.2E6
0.0E0
339.9178 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1296.0,5.00%,F,T)
A2.36E7
A2.23E7
A2.26E7
A1.95E7
4.1E6
2.0E6
0.0E0
354.9792 F:5
36:31
36:58
37:11
37:57
38:33
39:15
39:35
39:52
40:15
40:28
40:53
41:15
42:01
42:42
42:55
9.0E4
4.5E4
0.0E0
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

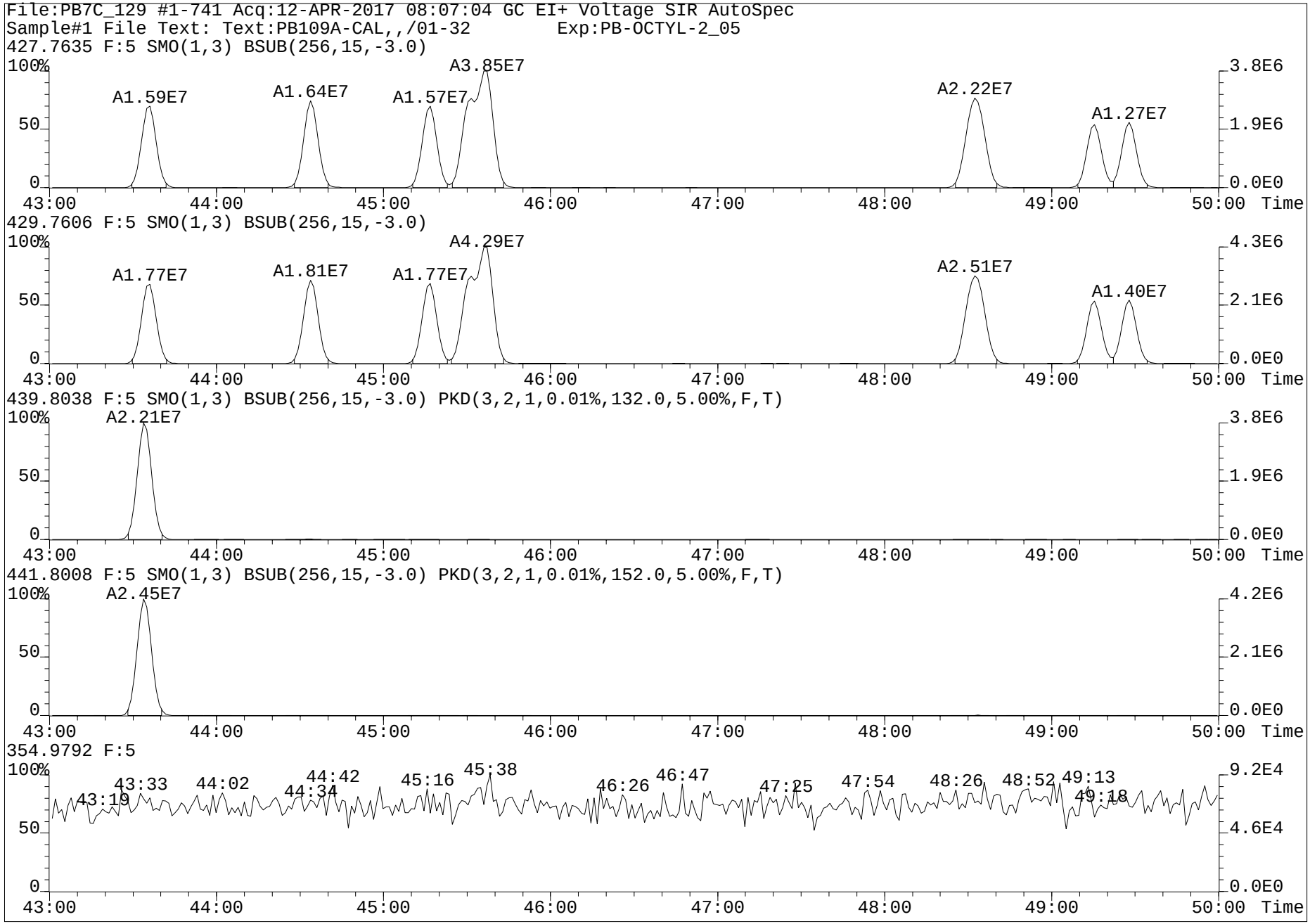

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,56600.0,5.00%,F,T)
A3.89E7
A2.07E7
A2.02E7
A2.01E7
A1.83E7
A1.75E7
327.8775 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,32036.0,5.00%,F,T)
A2.46E7
A1.35E7
A1.24E7
A1.28E7
A1.27E7
A1.17E7
A1.11E7
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.53E7
A1.10E7
A1.07E7
A1.13E7
A1.73E7
A2.88E7
A1.21E7
A1.60E7
A5.17E7
A1.67E7
A2.53E7
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.02E7
A8.76E6
A8.29E6
A8.96E6
A1.34E7
A2.26E7
A9.37E6
A1.25E7
A4.08E7
A1.33E7
A1.99E7
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.34E7
A1.42E7
A1.21E7
A9.24E6
A9.43E6
A1.13E7
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.28E7
A1.35E7
A1.17E7
A8.78E6
A8.97E6
A1.08E7
100%
50
0
6.3E6
3.2E6
0.0E0
4.0E6
2.0E6
5.4E6
2.7E6
4.3E6
2.1E6
2.4E6
1.2E6
2.3E6
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

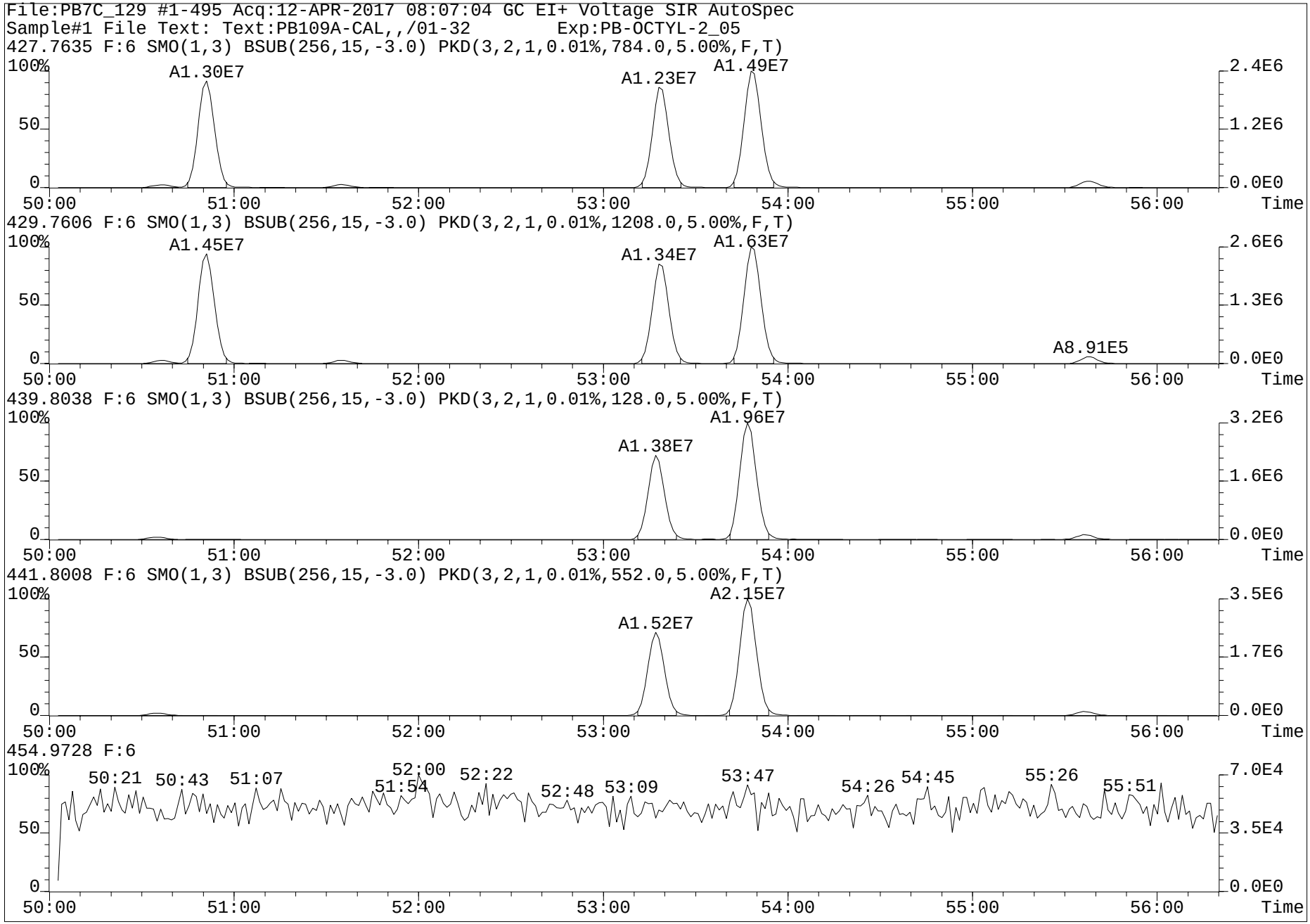

File:PB7C_129 #1-474 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.81E7
A1.74E7
A1.27E7
A4.18E7
A1.32E7
361.8385 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.42E7
A1.38E7
A1.02E7
A3.31E7
A1.05E7
371.8817 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,156.0,5.00%,F,T)
A3.38E7
373.8788 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,180.0,5.00%,F,T)
A2.69E7
330.9792 F:4
31:11 31:28 32:16 33:07 33:45 34:12 34:19 34:43 35:00 35:33 35:55
100%
50
0
31:00 32:00 33:00 34:00 35:00 36:00 Time
3.3E6 1.6E6 0.0E0
2.6E6 1.3E6 0.0E0
6.1E6 3.0E6 0.0E0
4.8E6 2.4E6 0.0E0
4.1E5 2.1E5 0.0E0

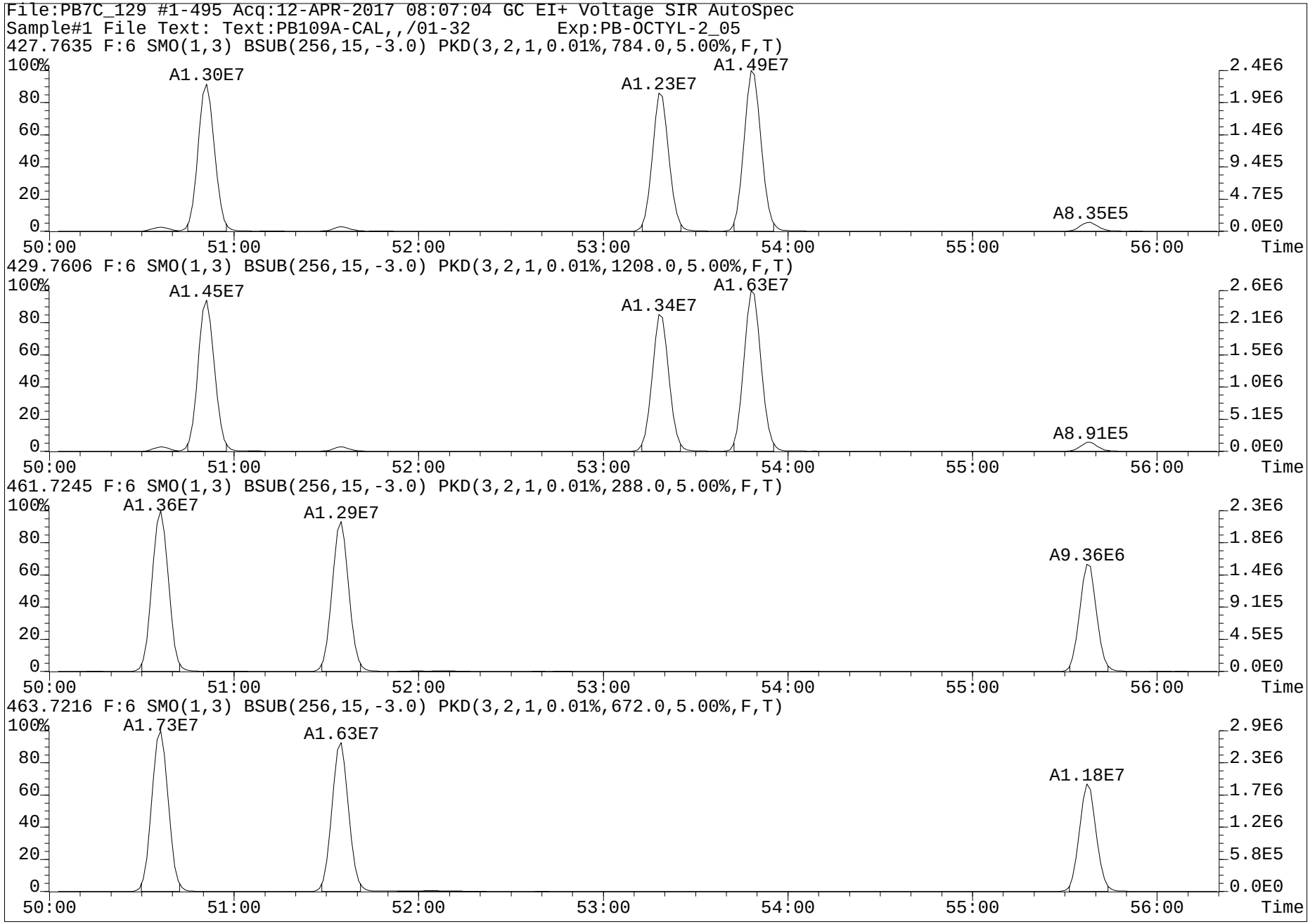

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.53E7
A2.28E7
A1.13E7
A1.73E7
A2.88E7
A1.21E7
A5.17E7
A1.67E7
A2.53E7
A1.59E7
A2.90E7
A1.63E7
A1.83E6
A2.05E6
A2.49E6
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.02E7
A1.78E7
A8.96E6
A1.34E7
A2.26E7
A8.69E6
A4.08E7
A1.33E7
A1.99E7
A1.26E7
A2.31E7
A1.19E7
371.8817 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A3.98E7
A2.22E7
A3.31E6
A2.56E7
A5.10E7
A2.53E7
373.8788 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A3.20E7
A1.71E7
A2.04E7
A4.01E7
A1.98E7
354.9792 F:5
36:13
36:31
37:11
38:33
39:35
39:52
40:53
42:01
42:42
42:55
43:33
44:21
44:42
45:28
45:38
46:47
47:05
47:54
48:52
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
5.4E6
2.7E6
0.0E0
4.3E6
2.1E6
6.9E6
3.4E6
5.5E6
2.8E6
9.2E4
4.6E4

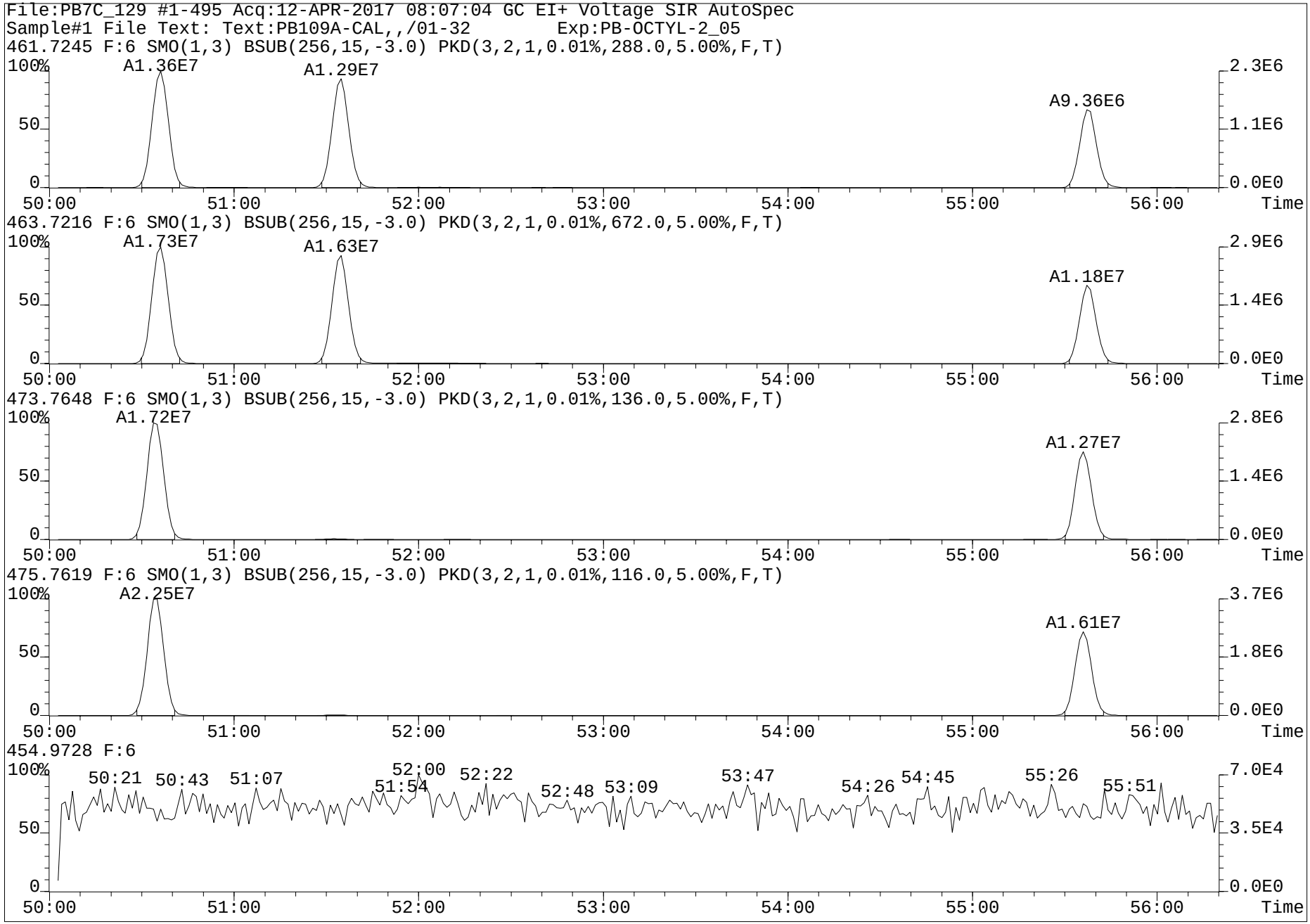

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.53E7
A2.28E7
A1.13E7
A1.73E7
A2.88E7
A1.21E7
A5.17E7
A1.67E7
A2.53E7
A1.59E7
A2.90E7
A2.05E6
A2.49E6
A1.63E7
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.02E7
A1.78E7
A8.96E6
A1.34E7
A2.26E7
A8.69E6
A4.08E7
A1.33E7
A1.99E7
A1.26E7
A2.31E7
A1.19E7
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.42E7
A9.24E6
A1.13E7
A1.05E7
A1.74E7
A9.23E6
A2.16E7
A1.18E7
A8.35E6
A1.14E7
A1.55E6
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.35E7
A8.78E6
A1.08E7
A9.91E6
A1.67E7
A8.87E6
A2.09E7
A1.12E7
A7.95E6
A1.11E7
A1.13E6
427.7635 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.59E7
A1.64E7
A3.85E7
A2.22E7
429.7606 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.77E7
A1.81E7
A4.29E7
A2.51E7
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
5.4E6
2.7E6
0.0E0
4.3E6
2.1E6
0.0E0
2.6E6
1.3E6
0.0E0
2.5E6
1.3E6
0.0E0
3.8E6
1.9E6
0.0E0
4.3E6
2.1E6
0.0E0

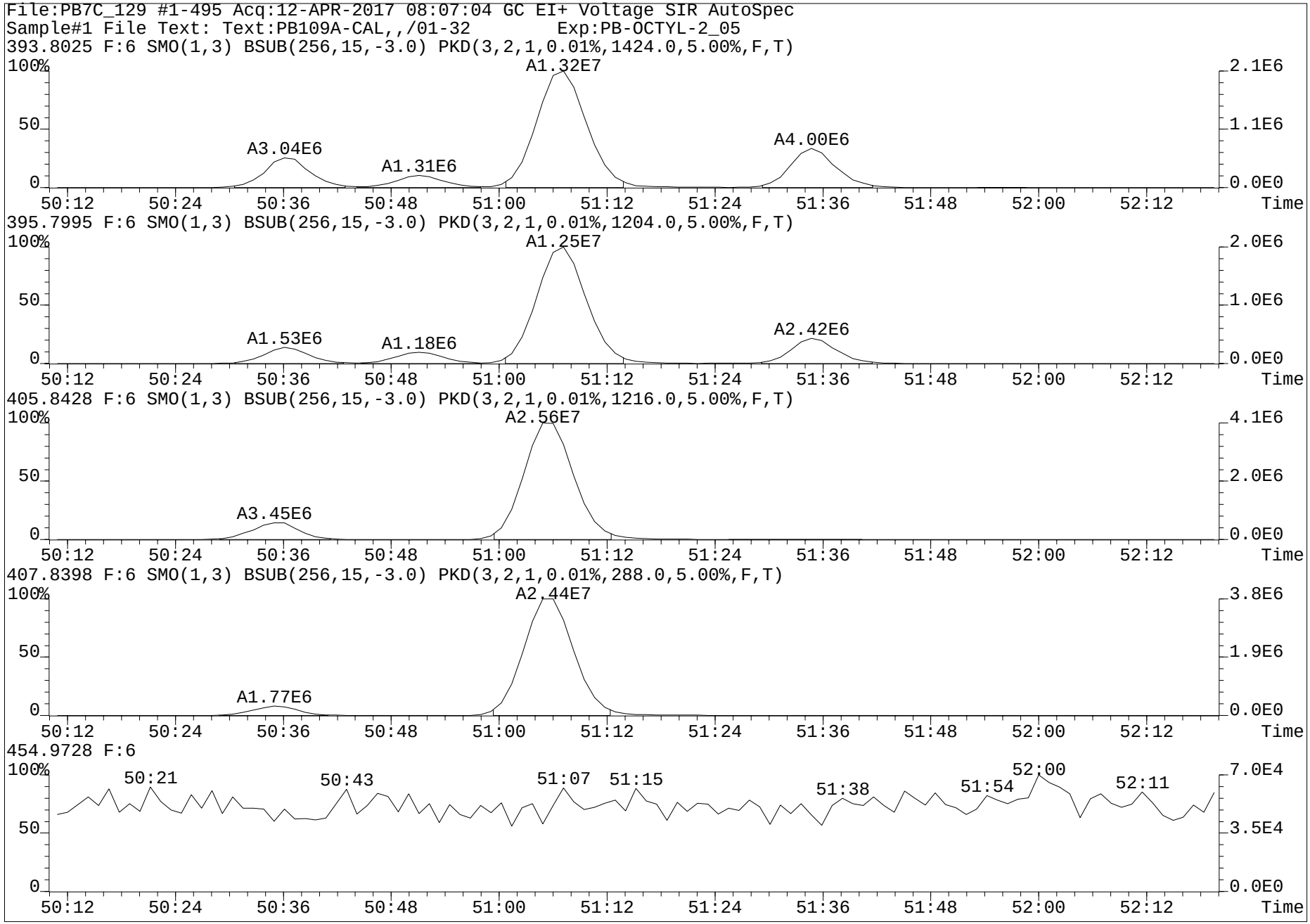

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.32E7 A1.42E7 A1.21E7 A9.24E6 A1.13E7 A1.05E7 A1.74E7 A9.23E6 A2.16E7 A1.18E7 A8.35E6 A1.14E7 A1.55E6
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.26E7 A1.35E7 A1.17E7 A8.97E6 A1.08E7 A9.91E6 A1.67E7 A8.87E6 A2.09E7 A1.12E7 A7.95E6 A1.11E7 A1.13E6
405.8425 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,168.0,5.00%,F,T)
A2.81E7 A1.79E7 A1.89E7 A1.54E7
407.8398 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,148.0,5.00%,F,T)
A2.64E7 A1.70E7 A1.81E7 A1.47E7
354.9792 F:5
37:57 38:33 39:15 39:52 40:28 40:15 41:15 42:01 42:42 42:55 43:19 44:02 44:42 45:38 45:28 46:05 46:47 47:05 47:54 48:52
100% 50 0
38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
2.6E6 1.3E6 0.0E0
2.5E6 1.3E6 0.0E0
4.8E6 2.4E6 0.0E0
4.5E6 2.2E6 0.0E0
9.2E4 4.6E4 0.0E0

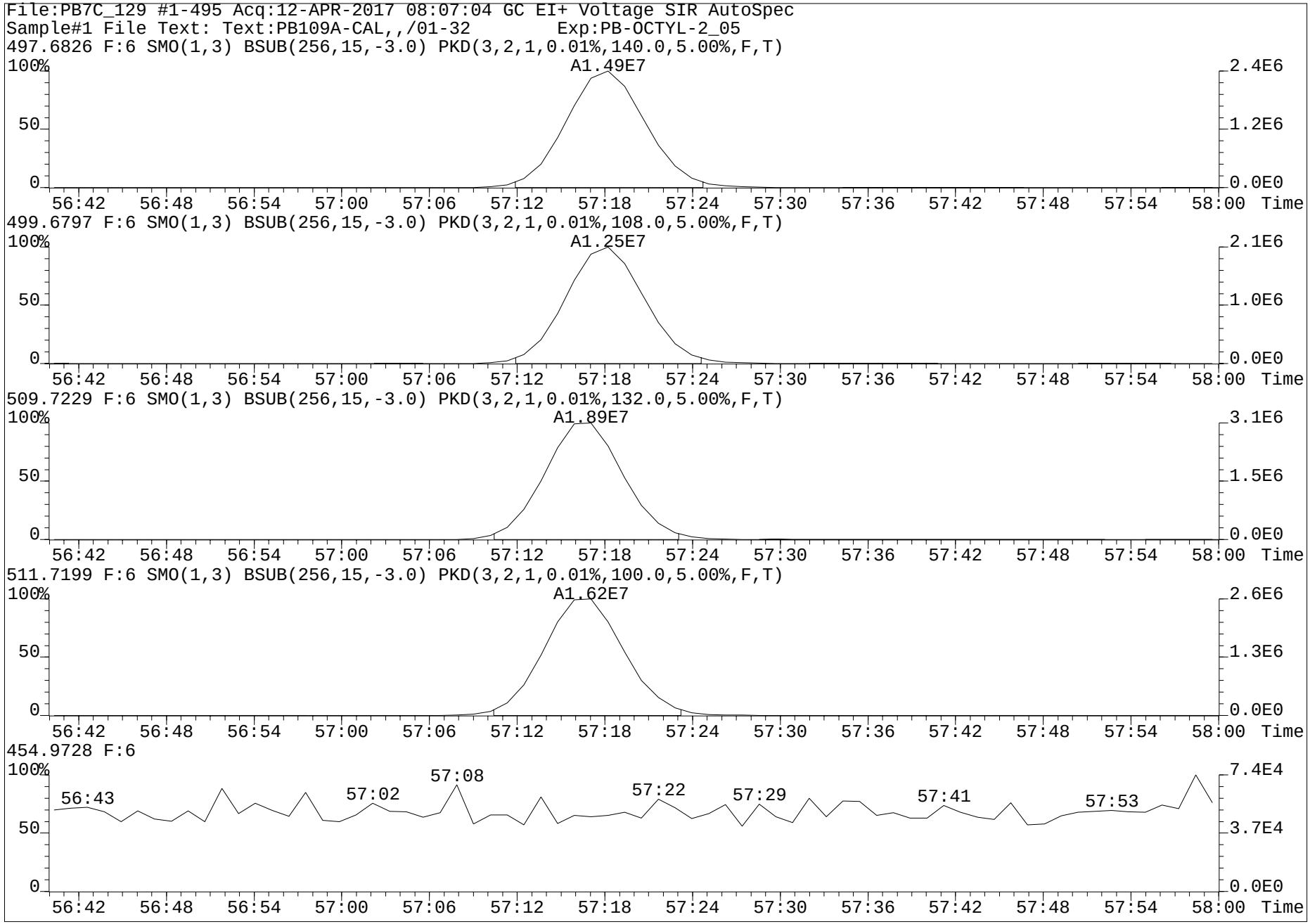

File:PB7C_129 #1-741 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.59E7
A1.64E7
A1.57E7
A3.85E7
A2.22E7
A1.27E7
429.7606 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.77E7
A1.81E7
A1.77E7
A4.29E7
A2.51E7
A1.40E7
439.8038 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.21E7
441.8008 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,152.0,5.00%,F,T)
A2.45E7
354.9792 F:5
43:19
43:33
44:02
44:34
44:42
45:16
45:38
46:26
46:47
47:25
47:54
48:26
48:52
49:13
49:18
100%
50
0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time
3.8E6
1.9E6
0.0E0
4.3E6
2.1E6
4.2E6
9.2E4
4.6E4


File:PB7C_129 #1-495 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,784.0,5.00%,F,T)
A1.30E7
A1.23E7
A1.49E7
429.7606 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1208.0,5.00%,F,T)
A1.45E7
A1.34E7
A1.63E7
A8.91E5
439.8038 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A1.38E7
A1.96E7
441.8008 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,552.0,5.00%,F,T)
A1.52E7
A2.15E7
454.9728 F:6
50:21
50:43
51:07
51:54
52:00
52:22
52:48
53:09
53:47
54:26
54:45
55:26
55:51
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
2.4E6
1.2E6
0.0E0
2.6E6
1.3E6
3.2E6
1.6E6
3.5E6
1.7E6
7.0E4
3.5E4


File:PB7C_129 #1-495 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,784.0,5.00%,F,T)
A1.30E7
A1.23E7
A1.49E7
A8.35E5
429.7606 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1208.0,5.00%,F,T)
A1.45E7
A1.34E7
A1.63E7
A8.91E5
461.7245 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A1.36E7
A1.29E7
A9.36E6
463.7216 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,672.0,5.00%,F,T)
A1.73E7
A1.63E7
A1.18E7
100%
80
60
40
20
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time


File:PB7C_129 #1-495 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
461.7245 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A1.36E7
A1.29E7
A9.36E6
463.7216 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,672.0,5.00%,F,T)
A1.73E7
A1.63E7
A1.18E7
473.7648 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,136.0,5.00%,F,T)
A1.72E7
A1.27E7
475.7619 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,116.0,5.00%,F,T)
A2.25E7
A1.61E7
454.9728 F:6
50:21
50:43
51:07
51:54
52:00
52:22
52:48
53:09
53:47
54:26
54:45
55:26
55:51
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
2.3E6
1.1E6
0.0E0
2.9E6
1.4E6
2.8E6
3.7E6
1.8E6
7.0E4
3.5E4


File:PB7C_129 #1-495 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1424.0,5.00%,F,T)
A1.32E7
A3.04E6
A1.31E6
A4.00E6
395.7995 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1204.0,5.00%,F,T)
A1.25E7
A1.53E6
A1.18E6
A2.42E6
405.8428 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1216.0,5.00%,F,T)
A2.56E7
A3.45E6
407.8398 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A2.44E7
A1.77E6
454.9728 F:6
50:21
50:43
51:07
51:15
51:38
51:54
52:00
52:11
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
2.1E6
1.1E6
0.0E0
2.0E6
1.0E6
0.0E0
4.1E6
2.0E6
0.0E0
3.8E6
1.9E6
0.0E0
7.0E4
3.5E4
0.0E0

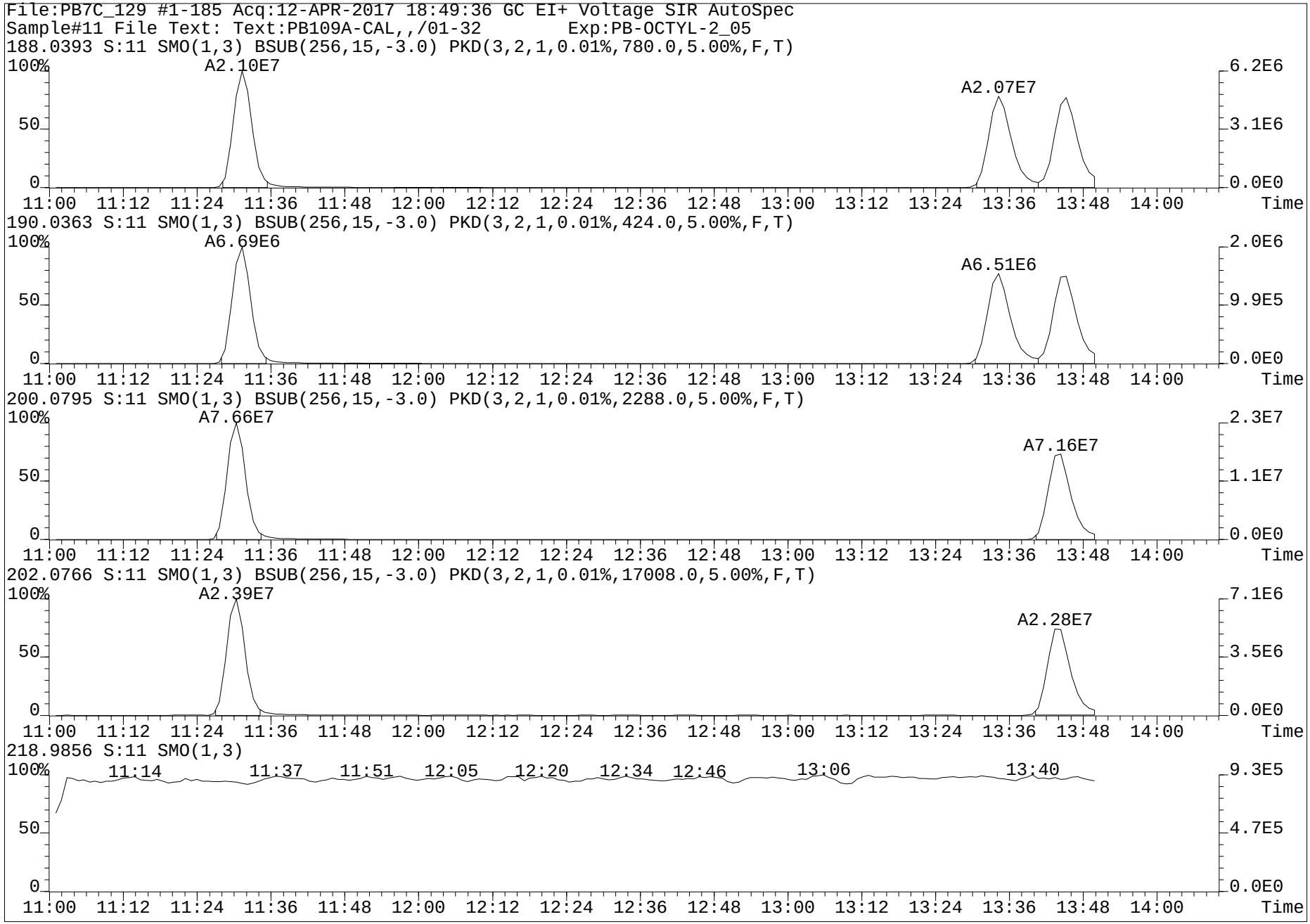

File:PB7C_129 #1-495 Acq:12-APR-2017 08:07:04 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
497.6826 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A1.49E7
499.6797 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.25E7
509.7229 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A1.89E7
511.7199 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,100.0,5.00%,F,T)
A1.62E7
454.9728 F:6
56:43
57:02
57:08
57:22
57:29
57:41
57:53
100%
50
0
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.4E6
1.2E6
0.0E0
2.1E6
1.0E6
3.1E6
1.5E6
2.6E6
1.3E6
7.4E4
3.7E4

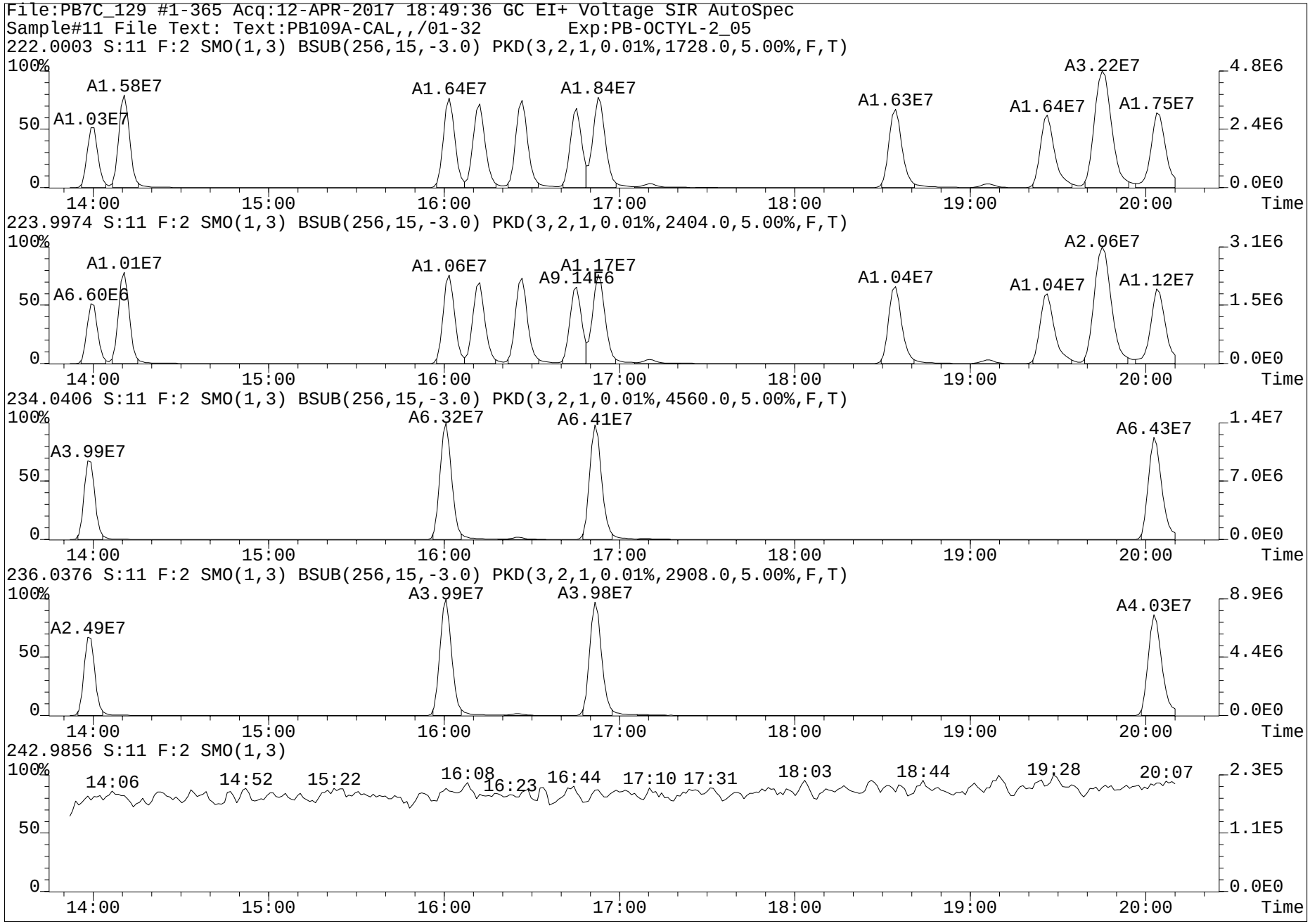
Run #16 Filename PB7C_129 S: 11 I: 1 Acquired: 12-APR-17 18:49:36 Processed: 13-APR-17 07:58:26
Run: pb7c_129-ta Analyte: 1668A-CV8 Cal: pb6c_435b-7a Results: pb7c_129-a Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal
sample size: 1.000000 conc units: ng/mL total toxicity: 1413.82 F1: 1.0000 F2: 1.0000

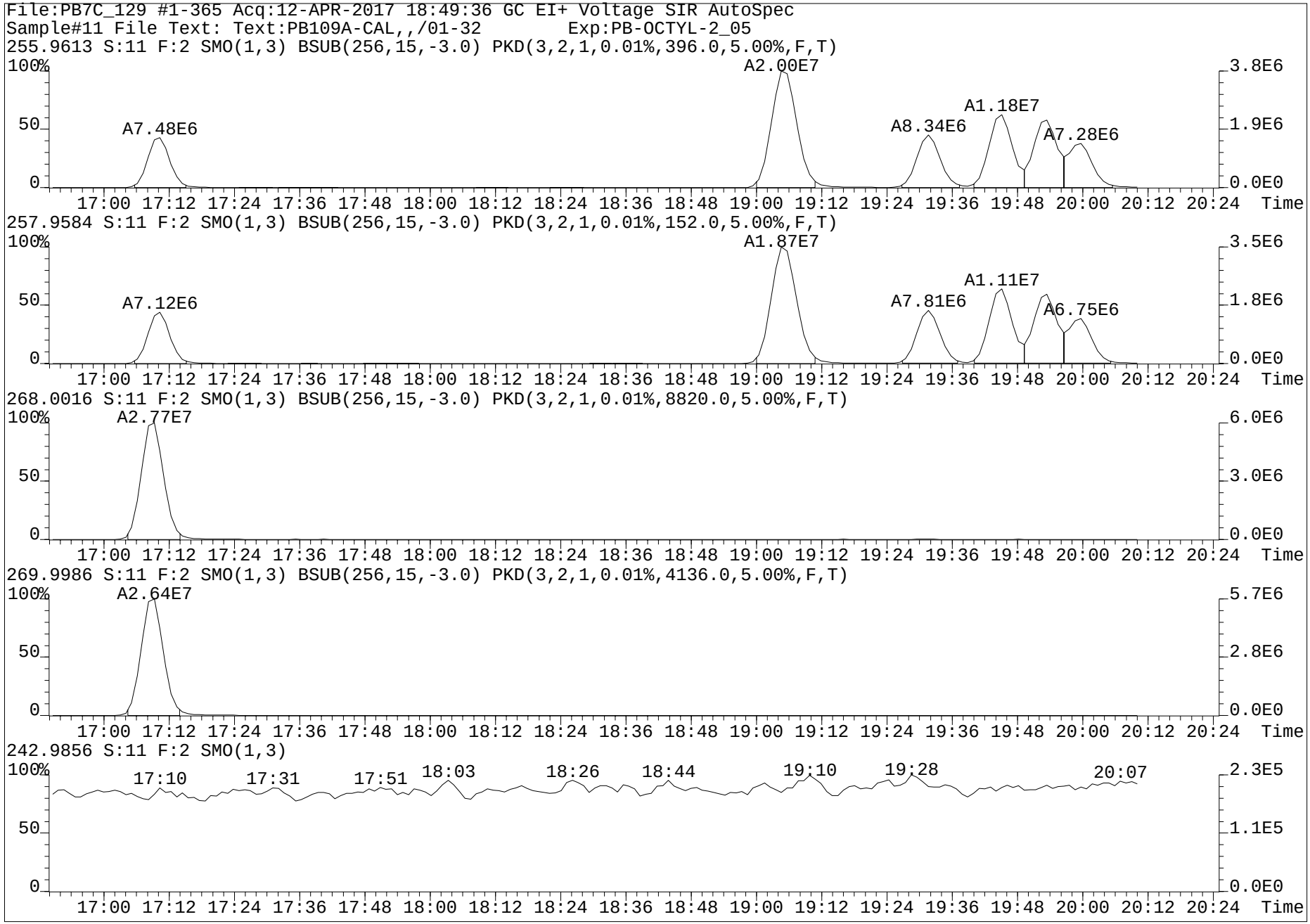
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 2.77e+07 | 3.14 | y | 11:31 | 25.265 | 25 | 0.0093 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 2.73e+07 | 3.16 | y | 13:45 | 26.403 | 26 | 0.0126 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 1.69e+07 | 1.57 | y | 14:00 | 25.526 | 26 | 0.0652 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 2.87e+07 | 1.56 | y | 20:04 | 29.589 | 30 | 0.0556 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 1.46e+07 | 1.05 | y | 17:10 | 27.306 | 27 | 0.0119 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 2.42e+07 | 1.05 | y | 27:22 | 25.723 | 26 | 0.0933 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 3.98e+07 | 0.78 | y | 20:20 | 51.579 | 52 | 0.0438 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 3.99e+07 | 0.79 | y | 34:25 | 53.745 | 54 | 1.5931 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 3.80e+07 | 0.78 | y | 35:01 | 50.508 | 51 | 1.5958 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.44e+07 | 1.57 | y | 26:03 | 53.131 | 53 | 0.0060 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 3.02e+07 | 1.56 | y | 37:05 | 52.208 | 52 | 2.7349 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.09e+07 | 1.57 | y | 37:27 | 51.706 | 52 | 2.6633 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.19e+07 | 1.53 | y | 38:00 | 53.429 | 53 | 2.7018 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 3.08e+07 | 1.56 | y | 38:40 | 54.041 | 54 | 2.8176 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 2.82e+07 | 1.62 | y | 41:55 | 56.036 | 56 | 3.2836 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 3.07e+07 | 1.29 | y | 32:00 | 52.058 | 52 | 0.0069 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 2.66e+07 | 1.20 | y | 43:51 | 55.407 | 55 | 3.1728 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 4.91e+07 | 1.28 | y | 45:04 | 102.722 | 103 | 3.8618 | - | n |
| 19 | Unk | CL6-PCB-169 | 1 | 2.63e+07 | 1.33 | y | 48:29 | 59.647 | 60 | 3.6006 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.51e+07 | 1.02 | y | 37:58 | 50.478 | 50 | 0.0300 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 2.26e+07 | 1.05 | y | 51:07 | 51.109 | 51 | 0.0567 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 3.23e+07 | 0.89 | y | 43:35 | 85.763 | 86 | 0.0102 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 2.78e+07 | 0.90 | y | 53:48 | 79.712 | 80 | 0.0796 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 2.55e+07 | 0.79 | y | 50:36 | 85.425 | 85 | 0.0223 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.87e+07 | 0.78 | y | 55:37 | 79.186 | 79 | 0.0286 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 2.42e+07 | 1.18 | y | 57:18 | 76.118 | 76 | 0.0115 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 1.00e+08 | 3.20 | y | 11:30 | 93.760 | 0 | 0.2021 | 93.8 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 9.43e+07 | 3.14 | y | 13:44 | 90.280 | 0 | 0.2072 | 90.3 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 6.48e+07 | 1.60 | y | 13:59 | 94.150 | 0 | 0.1219 | 94.1 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 1.05e+08 | 1.60 | y | 20:03 | 92.855 | 0 | 0.0744 | 92.9 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 5.41e+07 | 1.05 | y | 17:09 | 87.992 | 0 | 0.2363 | 88.0 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 9.30e+07 | 1.06 | y | 27:21 | 93.480 | 0 | 0.2761 | 93.5 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 7.42e+07 | 0.80 | y | 20:19 | 91.090 | 0 | 0.0204 | 91.1 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 7.25e+07 | 0.78 | y | 34:24 | 90.017 | 0 | 0.0293 | 90.0 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 7.48e+07 | 0.78 | y | 34:59 | 90.076 | 0 | 0.0284 | 90.1 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 6.18e+07 | 1.59 | y | 26:02 | 93.239 | 0 | 0.0063 | 93.2 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 5.95e+07 | 1.58 | y | 37:04 | 100.118 | 0 | 0.0794 | 100.1 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 5.84e+07 | 1.61 | y | 37:25 | 99.548 | 0 | 0.0805 | 99.5 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.62e+07 | 1.62 | y | 37:58 | 98.888 | 0 | 0.0830 | 98.9 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 5.61e+07 | 1.61 | y | 38:38 | 96.059 | 0 | 0.0809 | 96.1 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 4.91e+07 | 1.57 | y | 41:53 | 91.792 | 0 | 0.0883 | 91.8 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 5.87e+07 | 1.24 | y | 31:58 | 88.811 | 0 | 0.0056 | 88.8 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 4.34e+07 | 1.26 | y | 43:49 | 90.481 | 0 | 0.0253 | 90.5 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 8.86e+07 | 1.27 | y | 45:02 | 177.179 | 0 | 0.0242 | 88.6 | n |

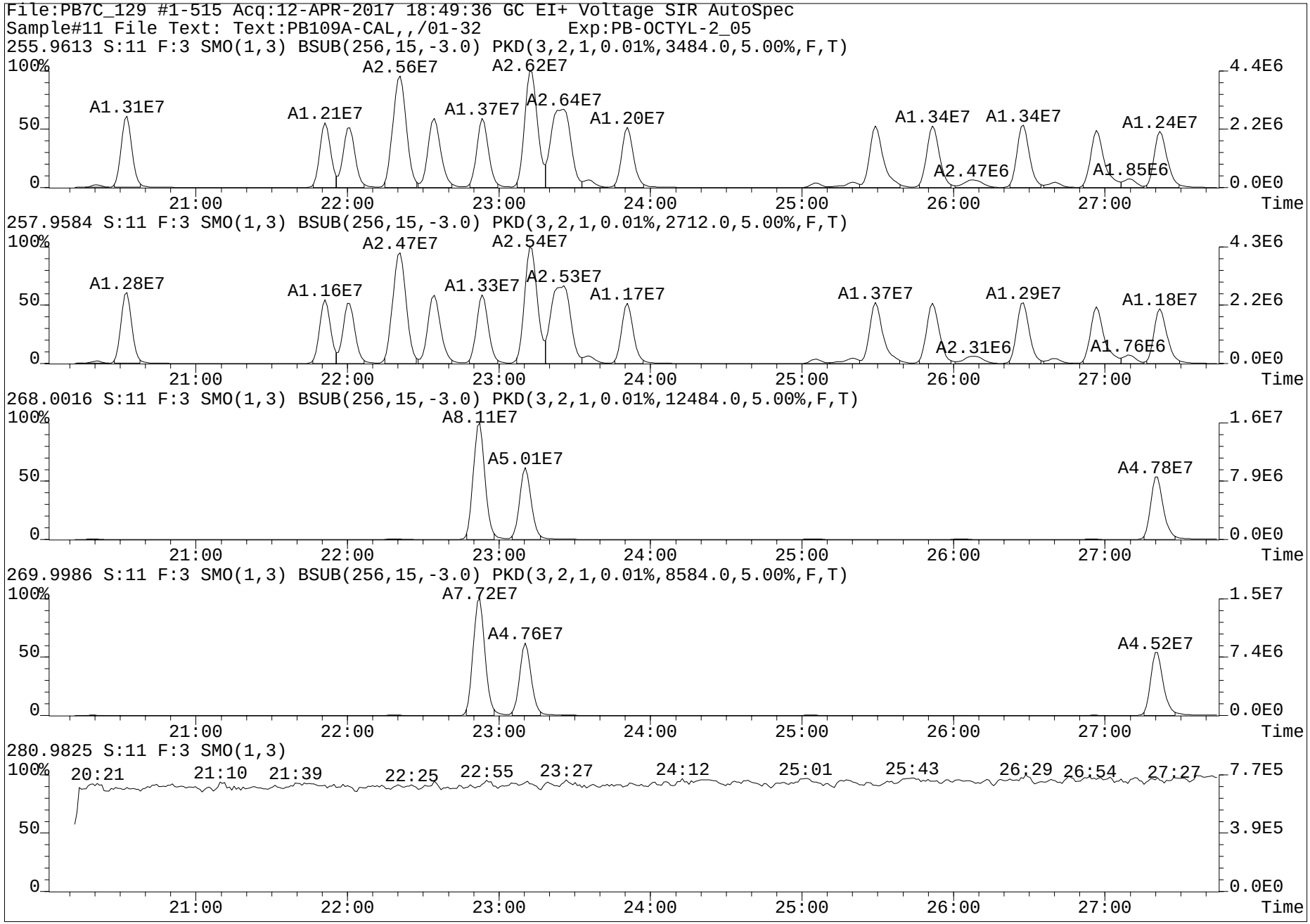
PV by TD 15-Apr-2017

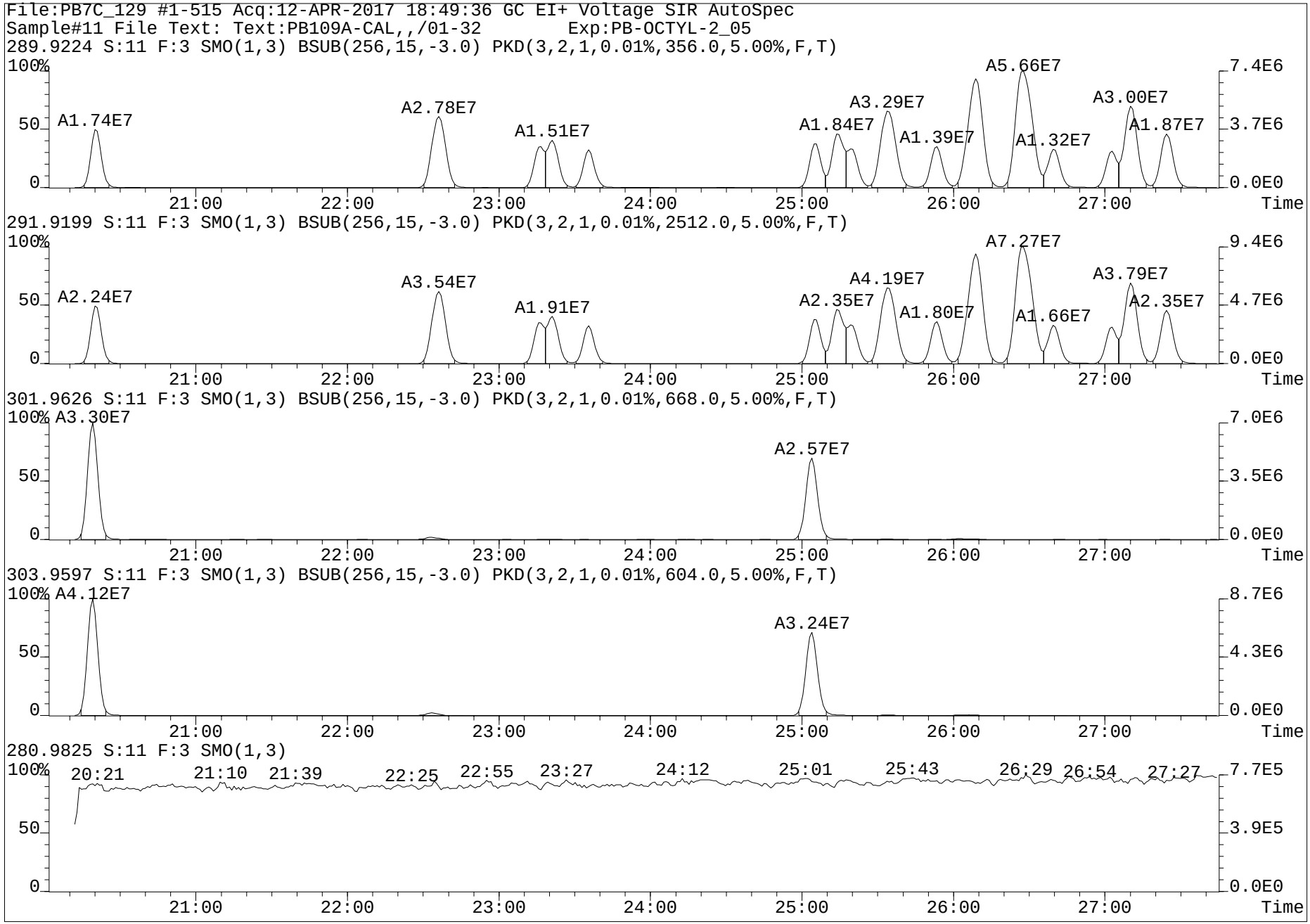
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 4.33e+07 | 1.27 | y | 48:27 | 90.726 | 0 | 0.0254 | 90.7 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 5.25e+07 | 1.06 | y | 37:56 | 80.062 | 0 | 0.0072 | 80.1 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 4.41e+07 | 1.07 | y | 51:05 | 103.236 | 0 | 0.0445 | 103.2 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 4.41e+07 | 0.90 | y | 43:34 | 72.543 | 0 | 0.0078 | 72.5 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 3.66e+07 | 0.89 | y | 53:47 | 91.635 | 0 | 0.0107 | 91.6 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.28e+07 | 0.76 | y | 50:34 | 85.728 | 0 | 0.0100 | 85.7 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.53e+07 | 0.76 | y | 55:36 | 87.313 | 0 | 0.0132 | 87.3 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.12e+07 | 1.17 | y | 57:16 | 85.736 | 0 | 0.0106 | 85.7 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 1.03e+08 | 1.58 | y | 16:01 | 64.722 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.81e+07 | 0.79 | y | 25:04 | 66.263 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 4.51e+07 | 1.59 | y | 32:13 | 58.275 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.80e+07 | 1.29 | y | 40:40 | 55.196 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.62e+07 | 0.93 | y | 53:17 | 60.702 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 9.77e+07 | 1.05 | y | 23:10 | 99.525 | 0 | 0.2799 | 99.5 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.70e+07 | 1.58 | y | 35:02 | 96.378 | 0 | 0.0228 | 96.4 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.37e+07 | 1.04 | y | 41:09 | 90.008 | 0 | 0.0122 | 90.0 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 7.42e+07 | 0.80 | y | 20:19 | 91.090 | 0 | 0.0204 | 91.1 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 5.25e+07 | 1.06 | y | 37:56 | 80.062 | 0 | 0.0072 | 80.1 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

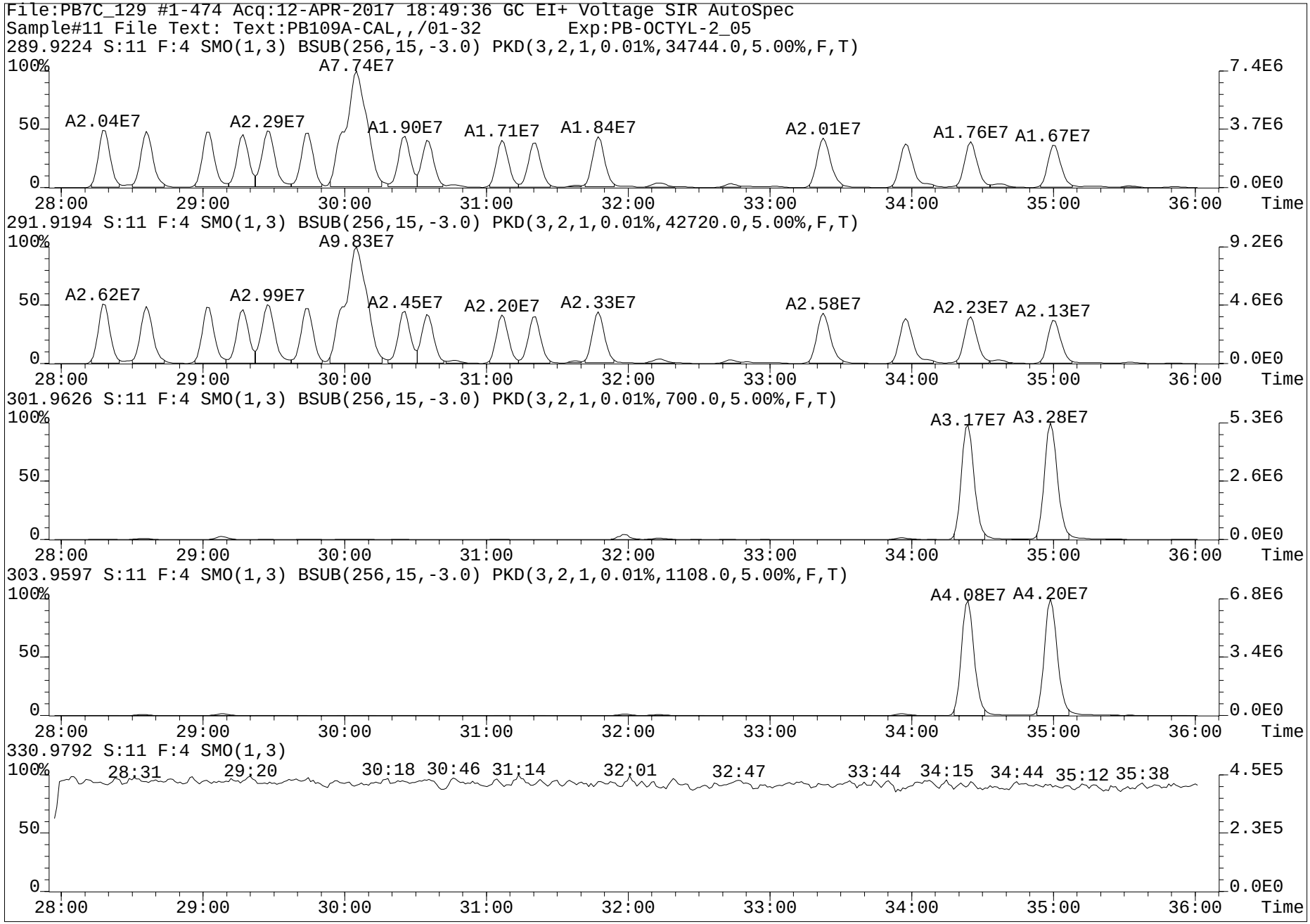

File:PB7C_129 #1-185 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
188.0393 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,780.0,5.00%,F,T)
A2.10E7
A2.07E7
6.2E6
3.1E6
0.0E0
190.0363 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,424.0,5.00%,F,T)
A6.69E6
A6.51E6
2.0E6
9.9E5
0.0E0
200.0795 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2288.0,5.00%,F,T)
A7.66E7
A7.16E7
2.3E7
1.1E7
0.0E0
202.0766 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,17008.0,5.00%,F,T)
A2.39E7
A2.28E7
7.1E6
3.5E6
0.0E0
218.9856 S:11 SMO(1,3)
11:14
11:37
11:51
12:05
12:20
12:34
12:46
13:06
13:40
9.3E5
4.7E5
0.0E0
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

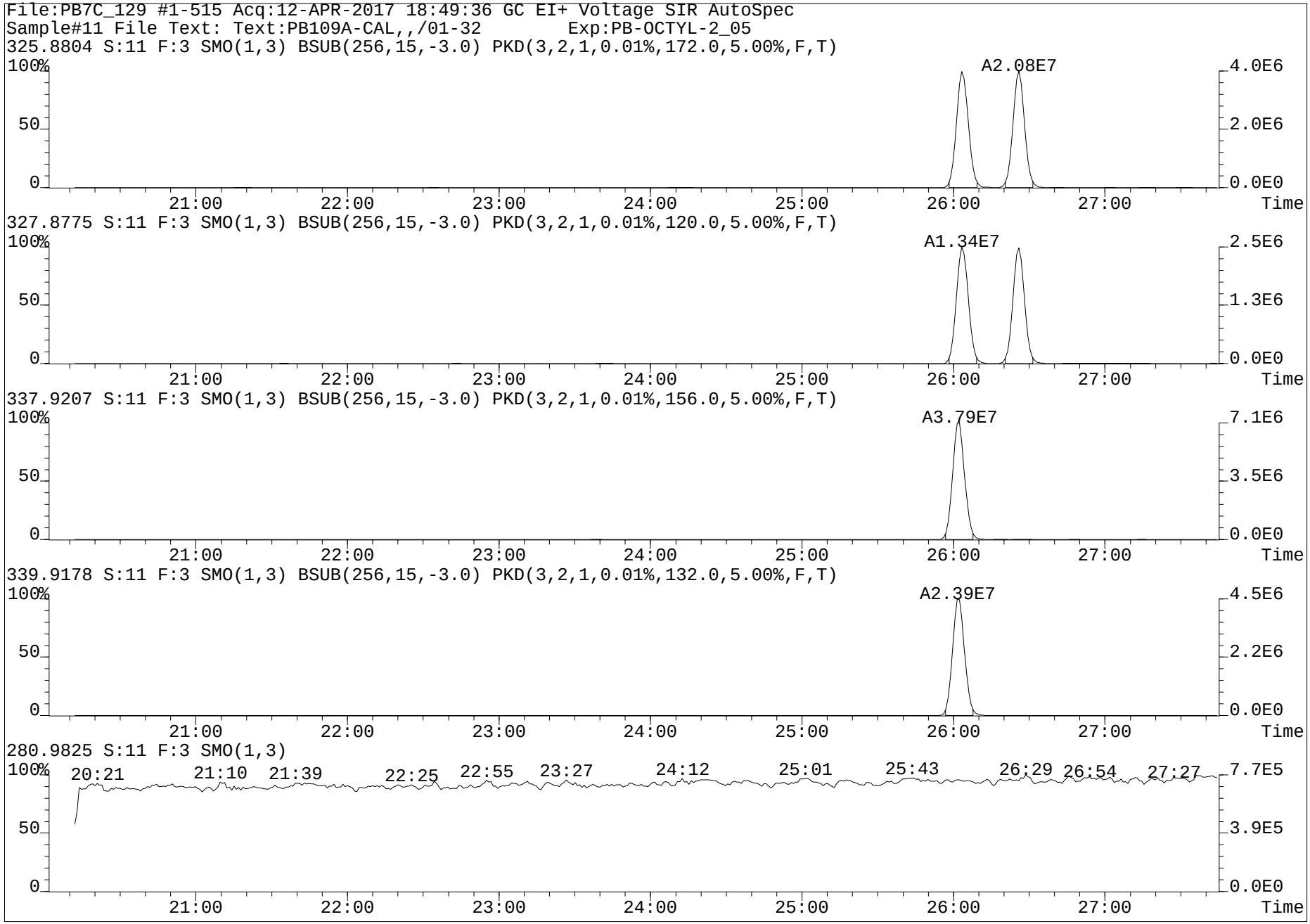

File:PB7C_129 #1-365 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1728.0,5.00%,F,T)
A1.03E7
A1.58E7
A1.64E7
A1.84E7
A1.63E7
A1.64E7
A3.22E7
A1.75E7
223.9974 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2404.0,5.00%,F,T)
A6.60E6
A1.01E7
A1.06E7
A9.14E6
A1.17E7
A1.04E7
A1.04E7
A2.06E7
A1.12E7
234.0406 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4560.0,5.00%,F,T)
A3.99E7
A6.32E7
A6.41E7
A6.43E7
236.0376 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2908.0,5.00%,F,T)
A2.49E7
A3.99E7
A3.98E7
A4.03E7
242.9856 S:11 F:2 SMO(1,3)
14:06
14:52
15:22
16:08
16:23
16:44
17:10
17:31
18:03
18:44
19:28
20:07
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
4.8E6
2.4E6
0.0E0
3.1E6
1.5E6
1.4E7
7.0E6
8.9E6
4.4E6
2.3E5
1.1E5

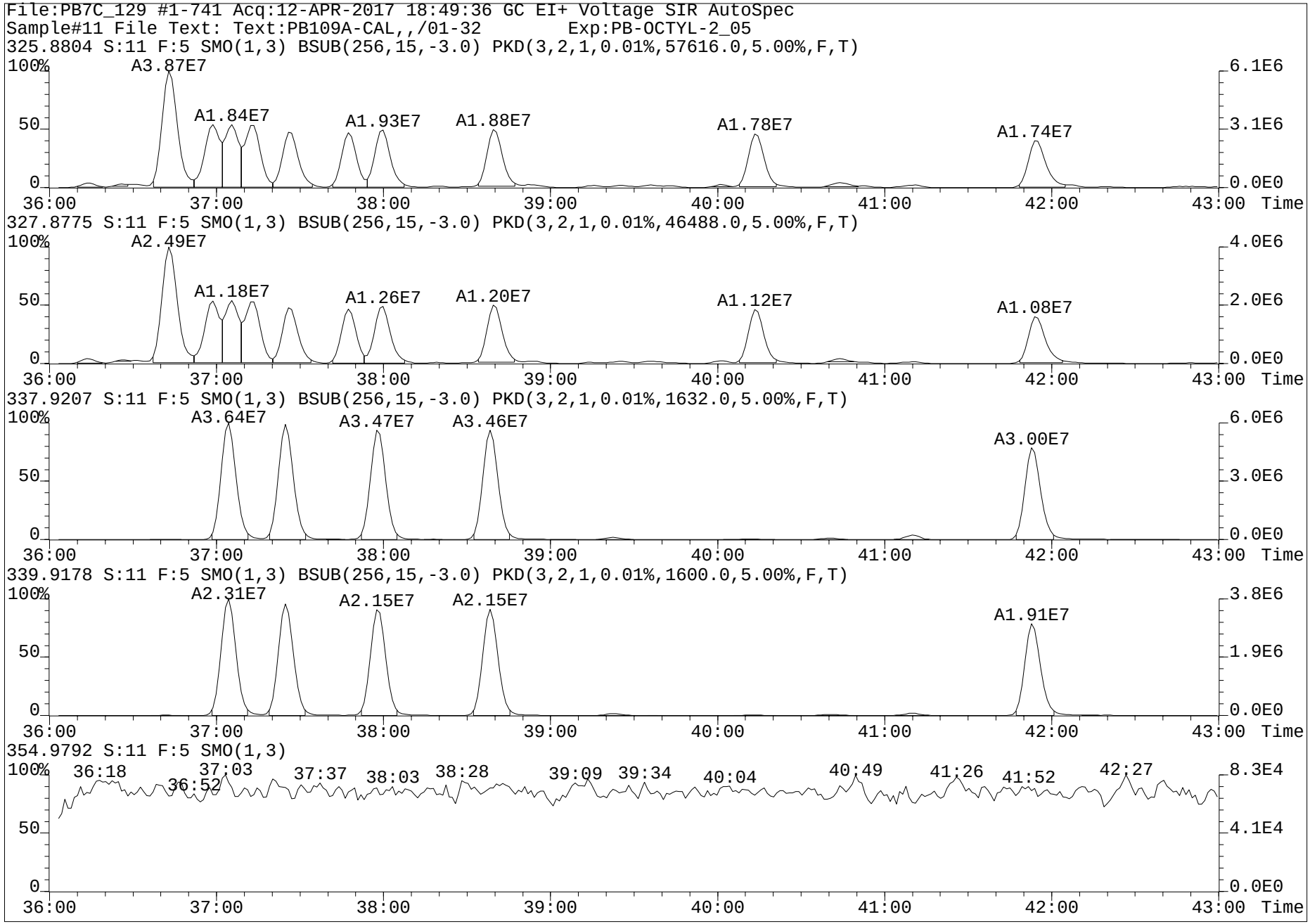

File:PB7C_129 #1-365 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,396.0,5.00%,F,T)
A7.48E6
A2.00E7
A8.34E6
A1.18E7
A7.28E6
257.9584 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,152.0,5.00%,F,T)
A7.12E6
A1.87E7
A7.81E6
A1.11E7
A6.75E6
268.0016 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8820.0,5.00%,F,T)
A2.77E7
269.9986 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4136.0,5.00%,F,T)
A2.64E7
242.9856 S:11 F:2 SMO(1,3)
17:10
17:31
17:51
18:03
18:26
18:44
19:10
19:28
20:07
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

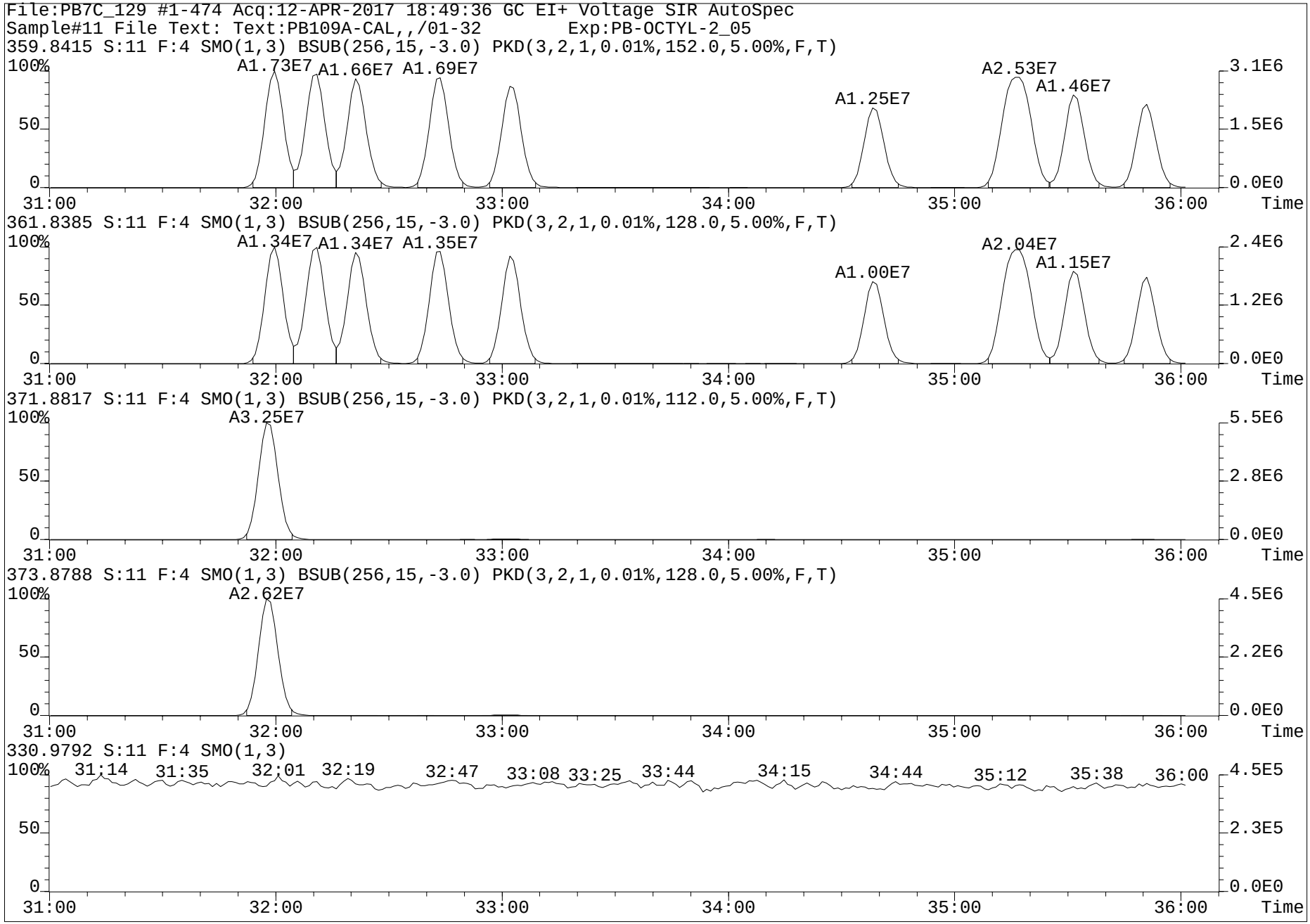

File:PB7C_129 #1-515 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3484.0,5.00%,F,T)
A1.31E7
A2.56E7
A1.21E7
A2.62E7
A1.37E7
A2.64E7
A1.20E7
A1.34E7
A1.34E7
A1.24E7
A2.47E6
A1.85E6
257.9584 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2712.0,5.00%,F,T)
A1.28E7
A2.47E7
A1.16E7
A2.54E7
A1.33E7
A2.53E7
A1.17E7
A1.37E7
A1.29E7
A1.18E7
A2.31E6
A1.76E6
268.0016 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,12484.0,5.00%,F,T)
A8.11E7
A5.01E7
A4.78E7
269.9986 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8584.0,5.00%,F,T)
A7.72E7
A4.76E7
A4.52E7
280.9825 S:11 F:3 SMO(1,3)
20:21
21:10
21:39
22:25
22:55
23:27
24:12
25:01
25:43
26:29
26:54
27:27
100%
50
0
4.4E6
2.2E6
0.0E0
4.3E6
1.6E6
7.9E6
1.5E7
7.4E6
7.7E5
3.9E5
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

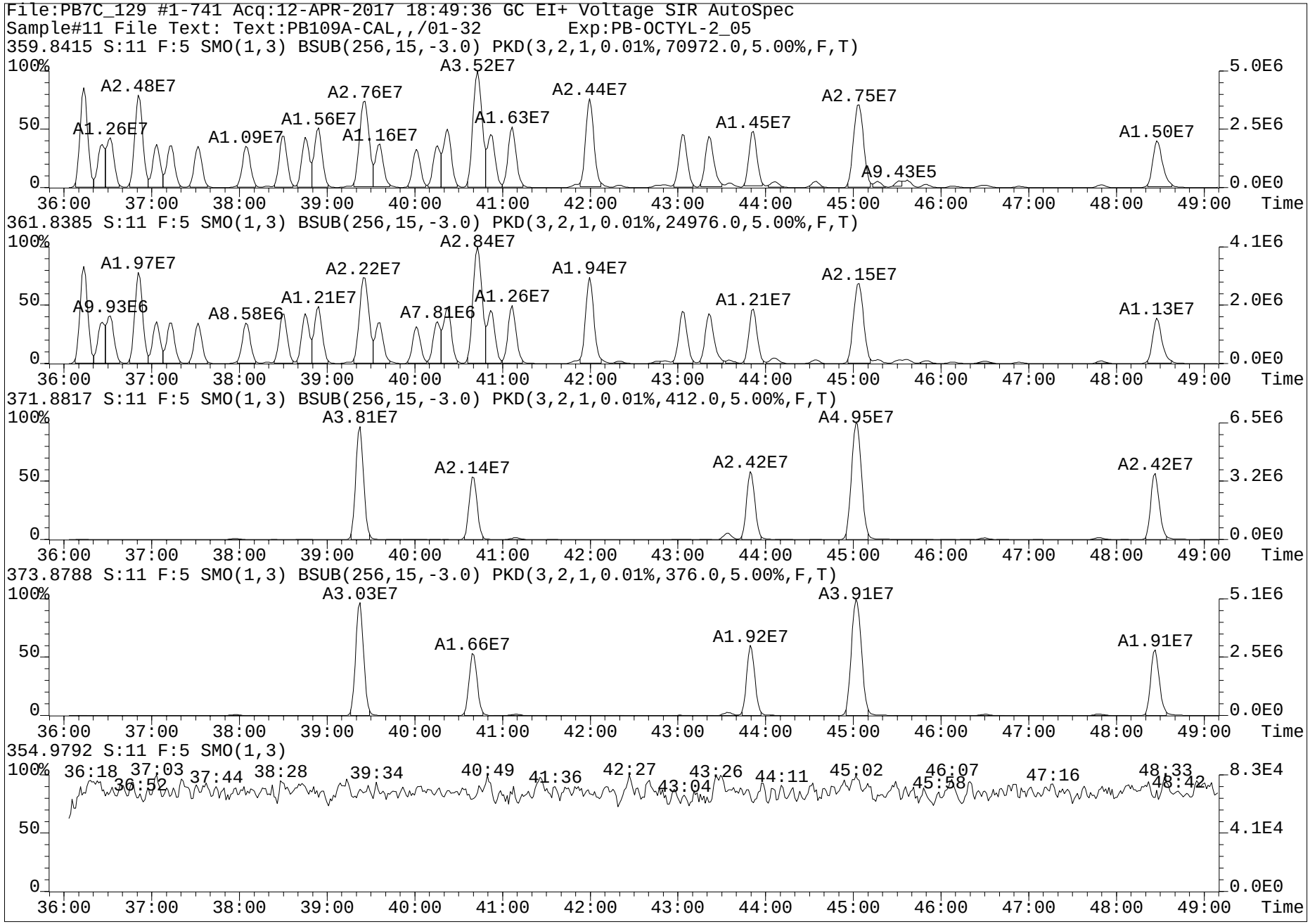

File:PB7C_129 #1-515 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,356.0,5.00%,F,T)
A1.74E7
A2.78E7
A1.51E7
A1.84E7
A3.29E7
A1.39E7
A5.66E7
A1.32E7
A3.00E7
A1.87E7
291.9199 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2512.0,5.00%,F,T)
A2.24E7
A3.54E7
A1.91E7
A2.35E7
A4.19E7
A1.80E7
A7.27E7
A1.66E7
A3.79E7
A2.35E7
301.9626 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,668.0,5.00%,F,T)
A3.30E7
A2.57E7
303.9597 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,604.0,5.00%,F,T)
A4.12E7
A3.24E7
280.9825 S:11 F:3 SMO(1,3)
20:21
21:10
21:39
22:25
22:55
23:27
24:12
25:01
25:43
26:29
26:54
27:27
100%
50
0
7.4E6
3.7E6
0.0E0
9.4E6
4.7E6
7.0E6
3.5E6
8.7E6
4.3E6
7.7E5
3.9E5
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

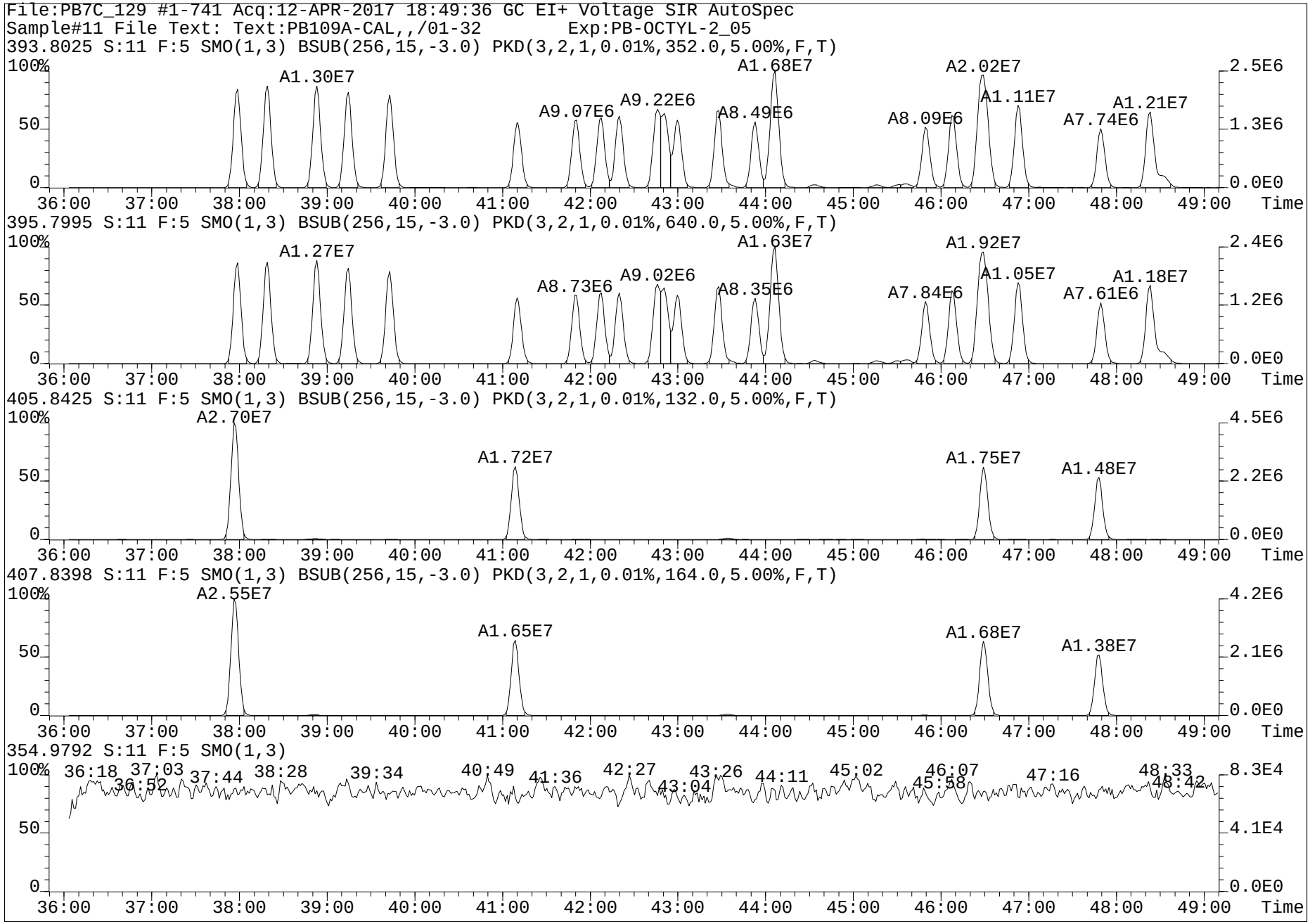

File:PB7C_129 #1-474 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,34744.0,5.00%,F,T)
A2.04E7
A2.29E7
A7.74E7
A1.90E7
A1.71E7
A1.84E7
A2.01E7
A1.76E7
A1.67E7
291.9194 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,42720.0,5.00%,F,T)
A2.62E7
A2.99E7
A9.83E7
A2.45E7
A2.20E7
A2.33E7
A2.58E7
A2.23E7
A2.13E7
301.9626 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,700.0,5.00%,F,T)
A3.17E7
A3.28E7
303.9597 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1108.0,5.00%,F,T)
A4.08E7
A4.20E7
330.9792 S:11 F:4 SMO(1,3)
28:31
29:20
30:18
30:46
31:14
32:01
32:47
33:44
34:15
34:44
35:12
35:38
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
7.4E6
3.7E6
0.0E0
9.2E6
4.6E6
5.3E6
2.6E6
6.8E6
3.4E6
4.5E5
2.3E5

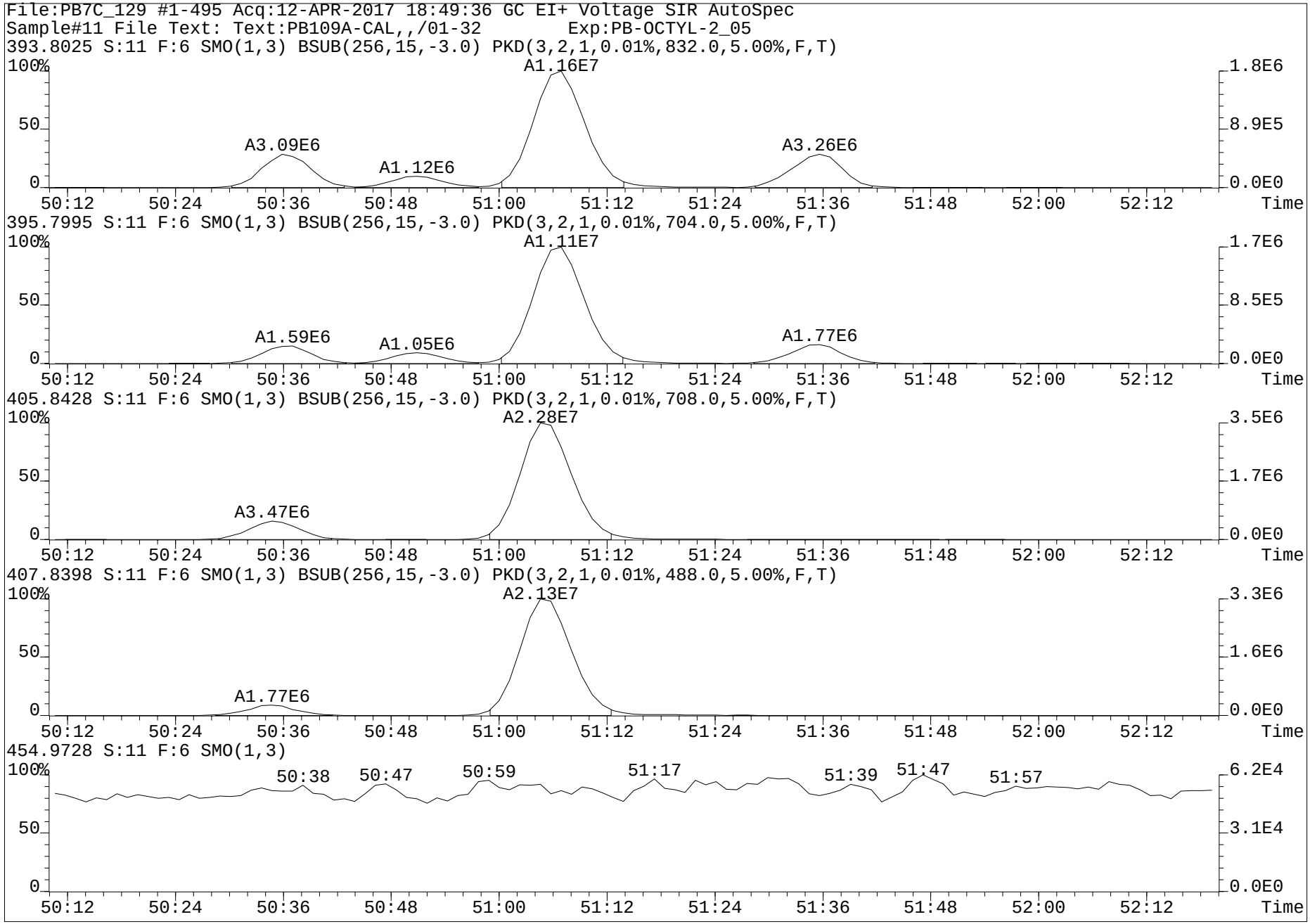

File:PB7C_129 #1-515 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,172.0,5.00%,F,T)
A2.08E7
327.8775 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.34E7
337.9207 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,156.0,5.00%,F,T)
A3.79E7
339.9178 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.39E7
280.9825 S:11 F:3 SMO(1,3)
20:21 21:10 21:39 22:25 22:55 23:27 24:12 25:01 25:43 26:29 26:54 27:27
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
4.0E6 2.0E6 0.0E0
2.5E6 1.3E6 0.0E0
7.1E6 3.5E6 0.0E0
4.5E6 2.2E6 0.0E0
7.7E5 3.9E5 0.0E0

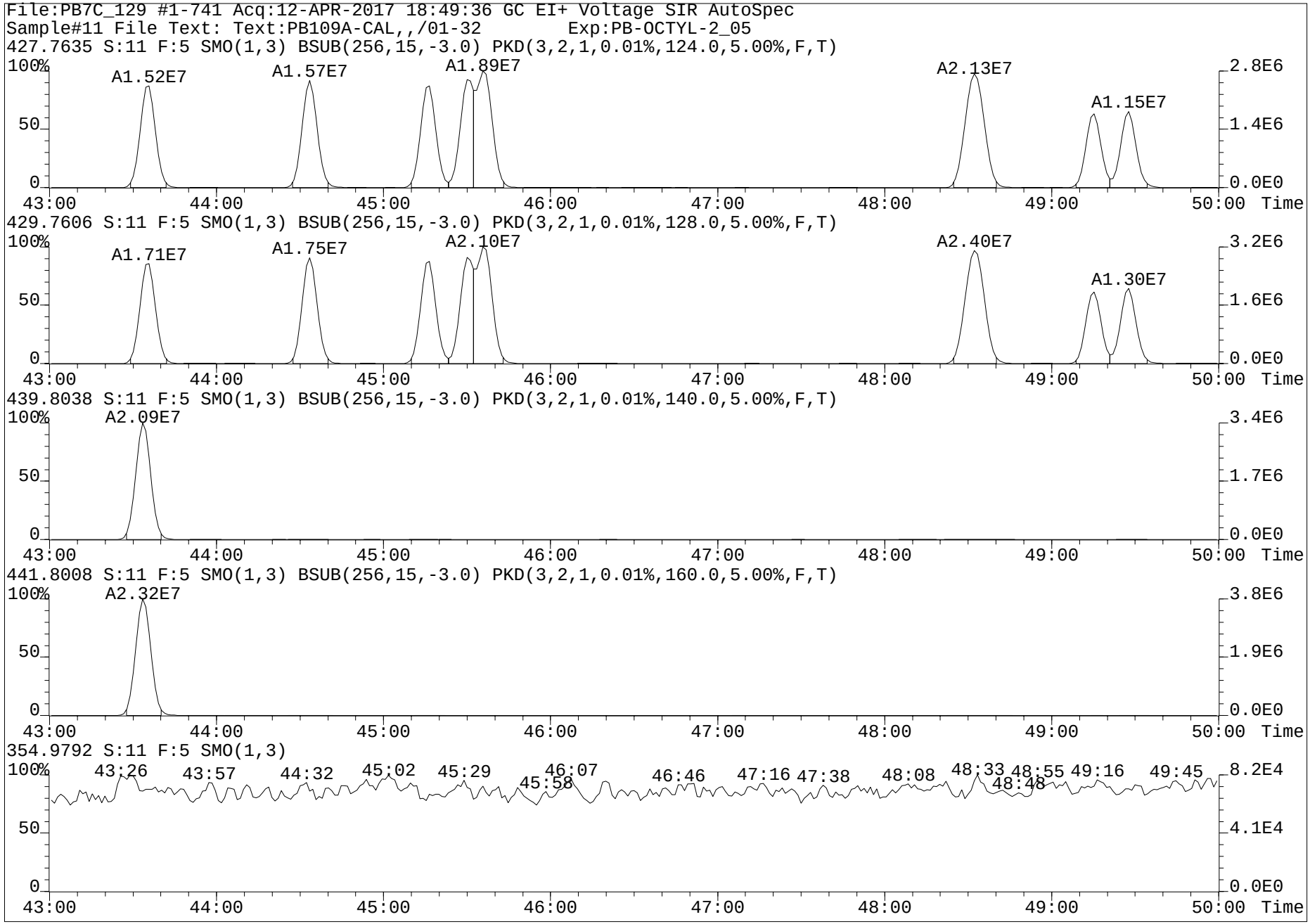

File:PB7C_129 #1-741 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,57616.0,5.00%,F,T)
A3.87E7
A1.84E7
A1.93E7
A1.88E7
A1.78E7
A1.74E7
327.8775 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,46488.0,5.00%,F,T)
A2.49E7
A1.18E7
A1.26E7
A1.20E7
A1.12E7
A1.08E7
337.9207 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1632.0,5.00%,F,T)
A3.64E7
A3.47E7
A3.46E7
A3.00E7
339.9178 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1600.0,5.00%,F,T)
A2.31E7
A2.15E7
A2.15E7
A1.91E7
354.9792 S:11 F:5 SMO(1,3)
36:18
36:52
37:03
37:37
38:03
38:28
39:09
39:34
40:04
40:49
41:26
41:52
42:27
100%
50
0
6.1E6
3.1E6
0.0E0
4.0E6
2.0E6
6.0E6
3.0E6
3.8E6
1.9E6
8.3E4
4.1E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time

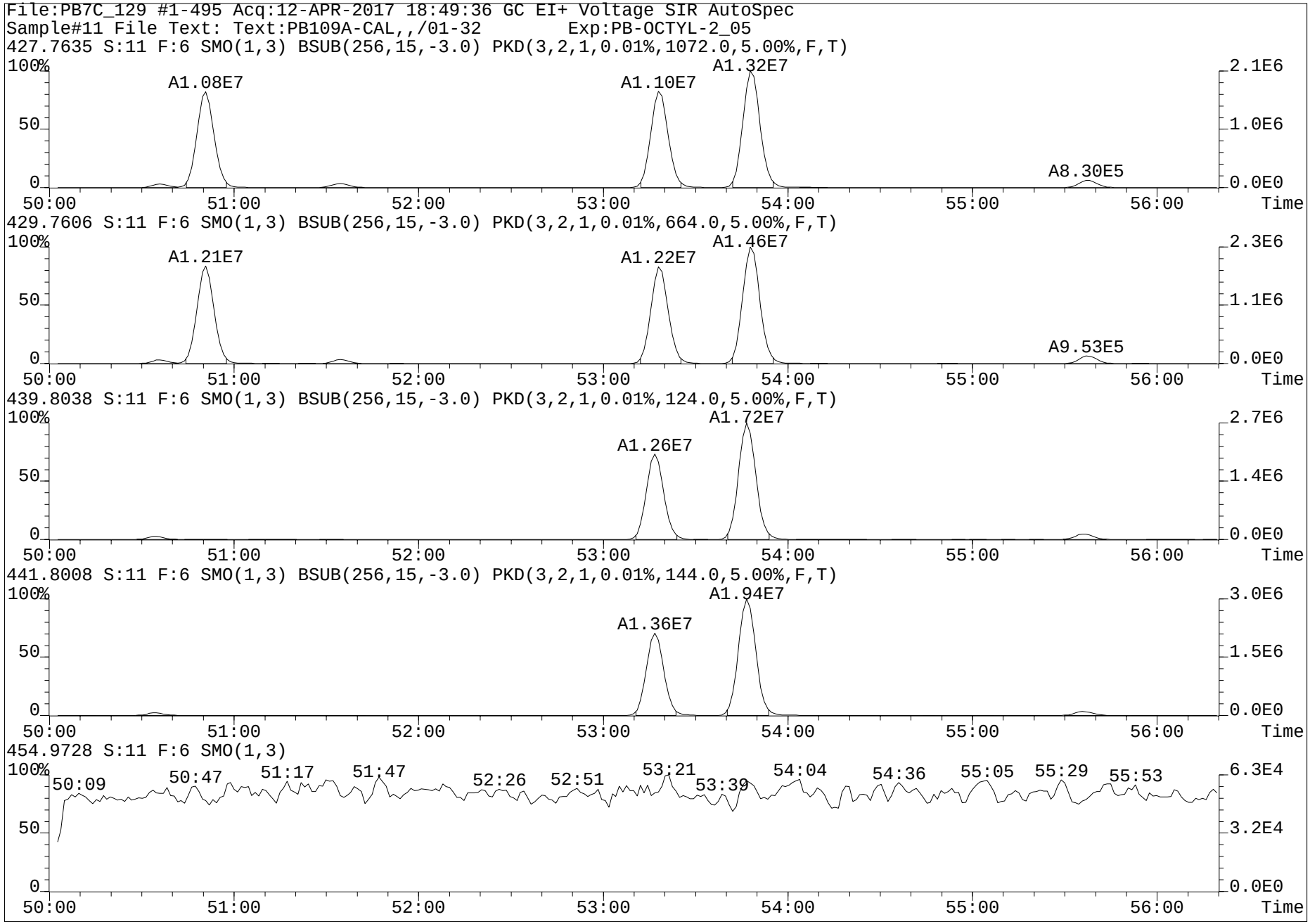

File:PB7C_129 #1-474 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,152.0,5.00%,F,T)
A1.73E7
A1.66E7
A1.69E7
A1.25E7
A2.53E7
A1.46E7
361.8385 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A1.34E7
A1.34E7
A1.35E7
A1.00E7
A2.04E7
A1.15E7
371.8817 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,112.0,5.00%,F,T)
A3.25E7
373.8788 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A2.62E7
330.9792 S:11 F:4 SMO(1,3)
31:14
31:35
32:01
32:19
32:47
33:08
33:25
33:44
34:15
34:44
35:12
35:38
36:00
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.1E6
1.5E6
0.0E0
2.4E6
1.2E6
5.5E6
2.8E6
4.5E6
2.2E6
4.5E5
2.3E5

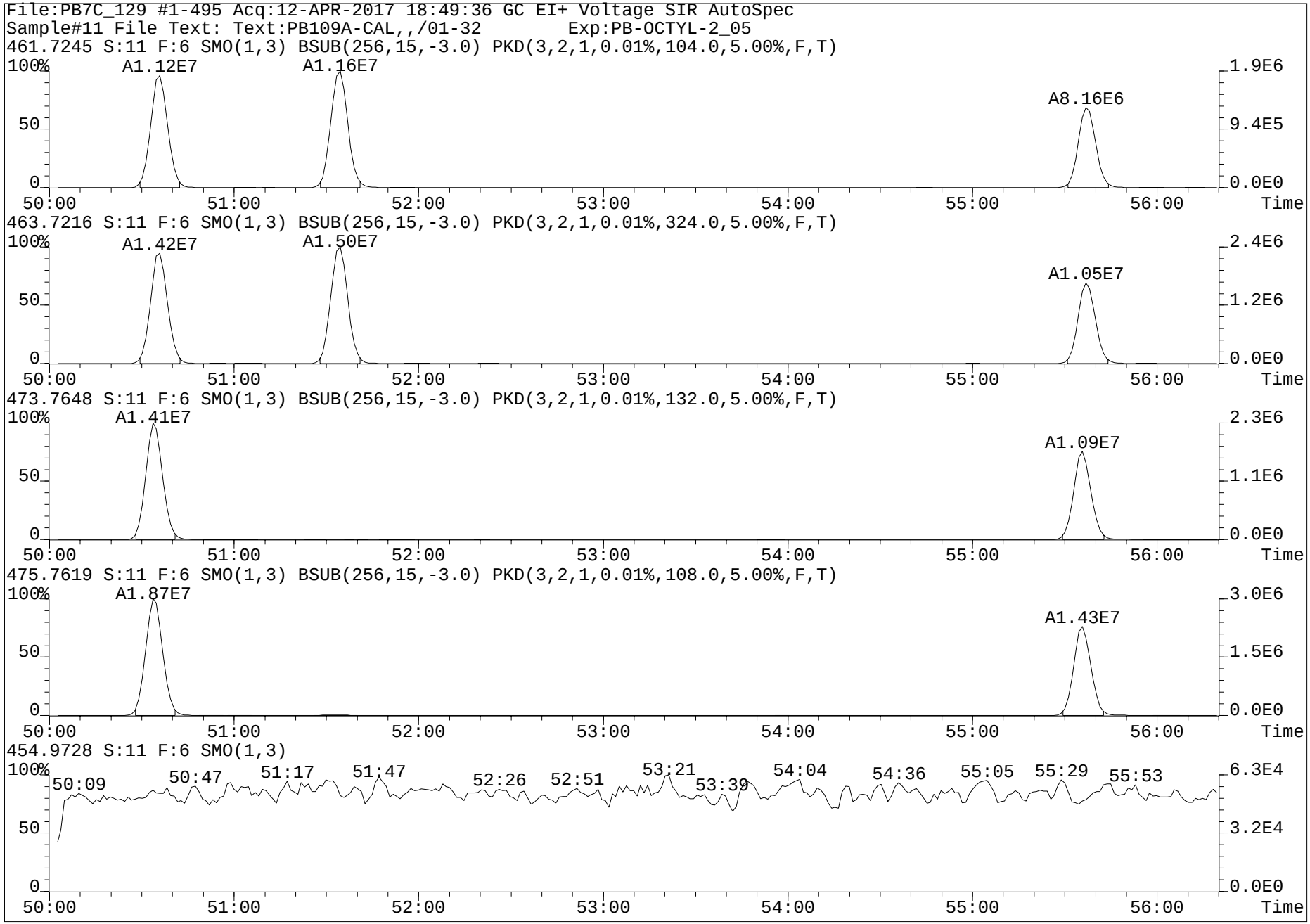

File:PB7C_129 #1-741 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,70972.0,5.00%,F,T)
A2.48E7
A3.52E7
A2.76E7
A2.44E7
A2.75E7
A1.26E7
A1.09E7
A1.56E7
A1.16E7
A1.63E7
A1.45E7
A1.50E7
A9.43E5
361.8385 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,24976.0,5.00%,F,T)
A2.84E7
A1.97E7
A2.22E7
A1.94E7
A2.15E7
A9.93E6
A8.58E6
A1.21E7
A7.81E6
A1.26E7
A1.21E7
A1.13E7
371.8817 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,412.0,5.00%,F,T)
A3.81E7
A4.95E7
A2.14E7
A2.42E7
A2.42E7
373.8788 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,376.0,5.00%,F,T)
A3.03E7
A3.91E7
A1.66E7
A1.92E7
A1.91E7
354.9792 S:11 F:5 SMO(1,3)
36:18 37:03 36:52 37:44 38:28 39:34 40:49 41:36 42:27 43:26 44:11 45:02 46:07 47:16 48:33 43:04 45:58 48:42
100%
50
0
5.0E6
2.5E6
0.0E0
4.1E6
2.0E6
6.5E6
3.2E6
5.1E6
2.5E6
8.3E4
4.1E4
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

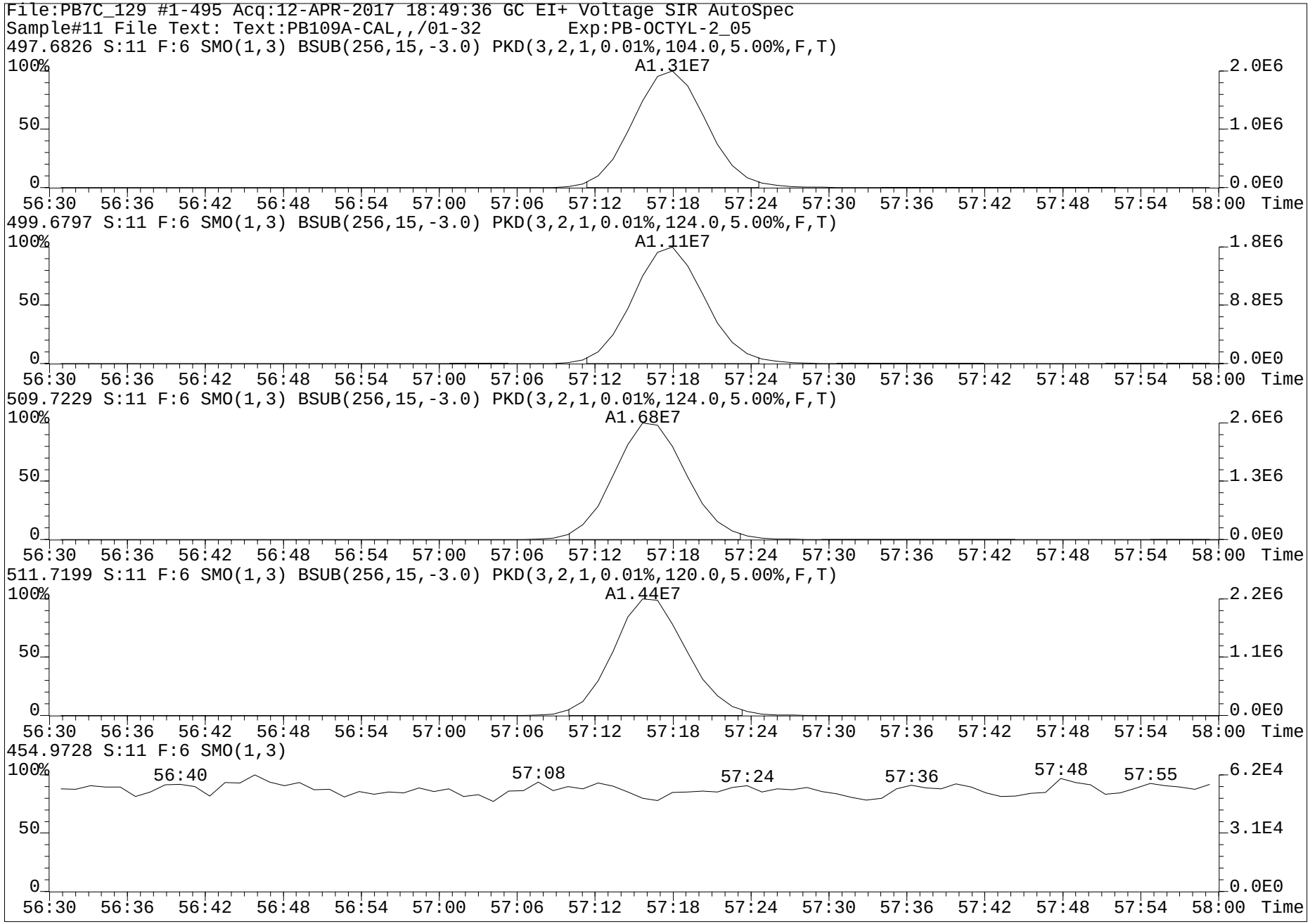

File:PB7C_129 #1-741 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,352.0,5.00%,F,T)
A1.30E7
A9.07E6
A9.22E6
A1.68E7
A8.49E6
A8.09E6
A2.02E7
A1.11E7
A7.74E6
A1.21E7
395.7995 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,640.0,5.00%,F,T)
A1.27E7
A8.73E6
A9.02E6
A1.63E7
A8.35E6
A7.84E6
A1.92E7
A1.05E7
A7.61E6
A1.18E7
405.8425 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A2.70E7
A1.72E7
A1.75E7
A1.48E7
407.8398 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,164.0,5.00%,F,T)
A2.55E7
A1.65E7
A1.68E7
A1.38E7
354.9792 S:11 F:5 SMO(1,3)
36:18 37:03 36:52 37:44 38:28 39:34 40:49 41:36 42:27 43:26 43:04 44:11 45:02 45:58 46:07 47:16 48:33 48:42
100%
50
0
2.5E6
1.3E6
0.0E0
2.4E6
1.2E6
4.5E6
2.2E6
4.2E6
2.1E6
8.3E4
4.1E4
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time

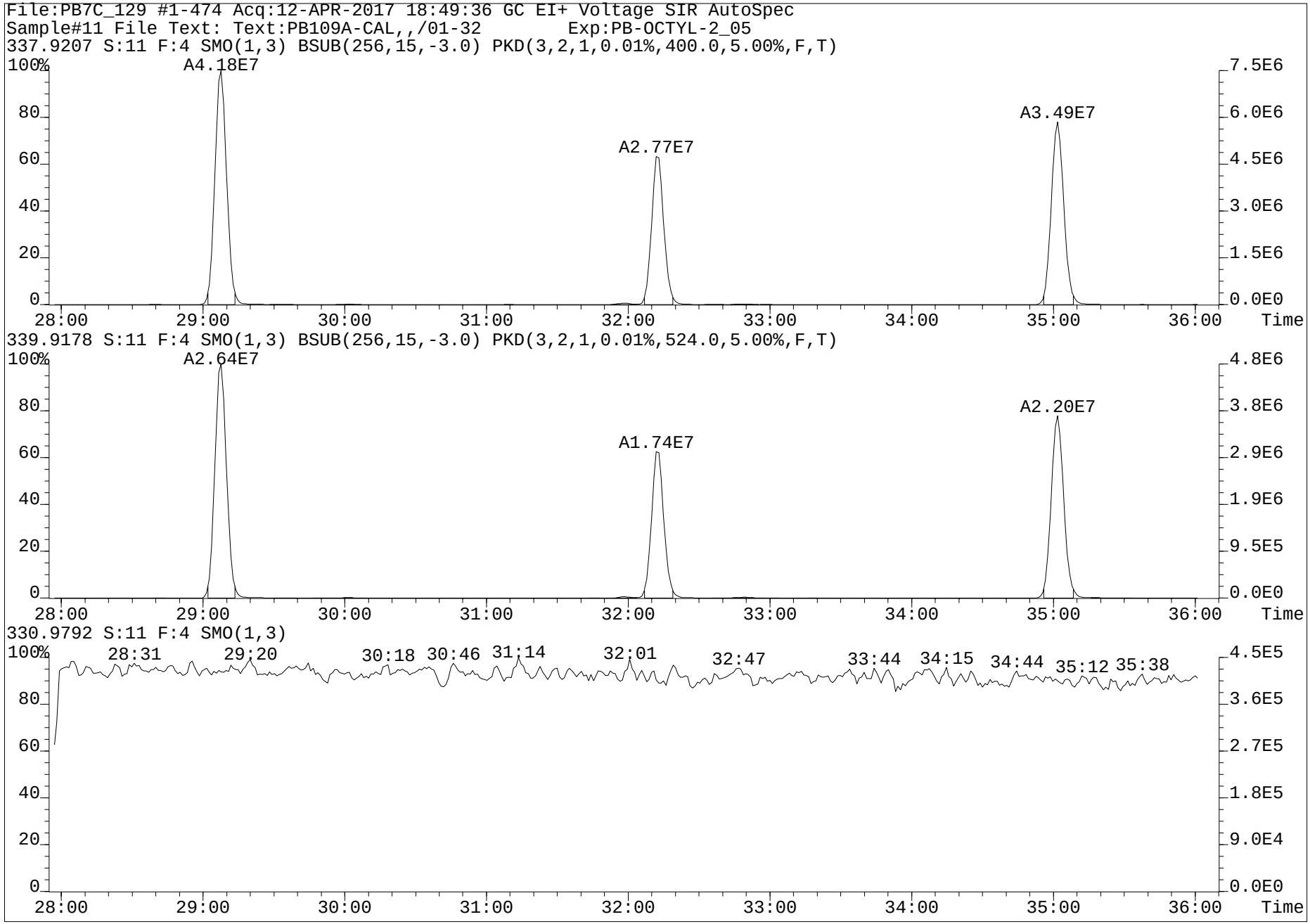

File:PB7C_129 #1-495 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,832.0,5.00%,F,T)
A1.16E7
A3.09E6
A1.12E6
A3.26E6
395.7995 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,704.0,5.00%,F,T)
A1.11E7
A1.59E6
A1.05E6
A1.77E6
405.8428 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,708.0,5.00%,F,T)
A2.28E7
A3.47E6
407.8398 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,488.0,5.00%,F,T)
A2.13E7
A1.77E6
454.9728 S:11 F:6 SMO(1,3)
50:38
50:47
50:59
51:17
51:39
51:47
51:57
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
1.8E6
8.9E5
0.0E0
1.7E6
8.5E5
3.5E6
1.7E6
3.3E6
1.6E6
6.2E4
3.1E4


File:PB7C_129 #1-741 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.52E7
A1.57E7
A1.89E7
A2.13E7
A1.15E7
429.7606 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,128.0,5.00%,F,T)
A1.71E7
A1.75E7
A2.10E7
A2.40E7
A1.30E7
439.8038 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,140.0,5.00%,F,T)
A2.09E7
441.8008 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,160.0,5.00%,F,T)
A2.32E7
354.9792 S:11 F:5 SMO(1,3)
43:26
43:57
44:32
45:02
45:29
45:58
46:07
46:46
47:16
47:38
48:08
48:33
48:48
48:55
49:16
49:45
100%
50
0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time
2.8E6
1.4E6
0.0E0
3.2E6
1.6E6
3.4E6
1.7E6
3.8E6
1.9E6
8.2E4
4.1E4


File:PB7C_129 #1-495 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1072.0,5.00%,F,T)
A1.08E7
A1.10E7
A1.32E7
A8.30E5
429.7606 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,664.0,5.00%,F,T)
A1.21E7
A1.22E7
A1.46E7
A9.53E5
439.8038 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.26E7
A1.72E7
441.8008 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,144.0,5.00%,F,T)
A1.36E7
A1.94E7
454.9728 S:11 F:6 SMO(1,3)
50:09
50:47
51:17
51:47
52:26
52:51
53:21
53:39
54:04
54:36
55:05
55:29
55:53
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
2.1E6
1.0E6
0.0E0
2.3E6
1.1E6
2.7E6
1.4E6
3.0E6
1.5E6
6.3E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
461.7245 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A1.12E7
A1.16E7
A8.16E6
463.7216 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,324.0,5.00%,F,T)
A1.42E7
A1.50E7
A1.05E7
473.7648 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,132.0,5.00%,F,T)
A1.41E7
A1.09E7
475.7619 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,108.0,5.00%,F,T)
A1.87E7
A1.43E7
454.9728 S:11 F:6 SMO(1,3)
50:09
50:47
51:17
51:47
52:26
52:51
53:21
53:39
54:04
54:36
55:05
55:29
55:53
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.9E6
9.4E5
0.0E0
2.4E6
1.2E6
2.3E6
1.1E6
3.0E6
1.5E6
6.3E4
3.2E4


File:PB7C_129 #1-495 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
497.6826 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,104.0,5.00%,F,T)
A1.31E7
499.6797 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.11E7
509.7229 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,124.0,5.00%,F,T)
A1.68E7
511.7199 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,120.0,5.00%,F,T)
A1.44E7
454.9728 S:11 F:6 SMO(1,3)
56:40
57:08
57:24
57:36
57:48
57:55
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
2.0E6
1.0E6
0.0E0
1.8E6
8.8E5
2.6E6
1.3E6
2.2E6
1.1E6
6.2E4
3.1E4


File:PB7C_129 #1-474 Acq:12-APR-2017 18:49:36 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
337.9207 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,400.0,5.00%,F,T)
A4.18E7
A2.77E7
A3.49E7
339.9178 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,524.0,5.00%,F,T)
A2.64E7
A1.74E7
A2.20E7
330.9792 S:11 F:4 SMO(1,3)
28:31
29:20
30:18
30:46
31:14
32:01
32:47
33:44
34:15
34:44
35:12
35:38
Time

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Experiment : PB-OCTYL-2_05
GC Program : PB-OCTYL-2_02
Column type : OCTYL
Serial # : 54277-02A/55632
kPa : 288
Vol injected: 1.0UL
PMT Voltage : 395

Temps -source: 270
-s resv: 160
-re_ent: 270
-cap_1 : 270
-cap_2 : 270

Tune : BA
List : BA
Check :
LIMS :
Logfile:

Date -list : 17-APR-2017
-liner : 12-APR-2017
-septum: 12-APR-2017
-guard : 60CM 12-APR-2017
-column: NEW 26-NOV-2016
-t line: NEW 26-NOV-2016

| # | Data file | S | V | Sample Text | Comments | Acquisition Date/Time |
|---|---|---|---|---|---|---|
| 1 | PB7C_131A | 1 | 1 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 17-APR-17 08:21:59 |
| 2 | PB7C_131A | 2 | 2 | WG59182-102,,SPM | 1,WG59182,1.0/20uL | 17-APR-17 09:26:17 |
| 3 | PB7C_131A | 3 | 3 | PB053A-SUR,,/01 | 1,,1.0uL Inst Blank | 17-APR-17 10:30:41 |
| 4 | PB7C_131A | 4 | 4 | WG59182-101,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 11:34:54 |
| 5 | PB7C_131A | 5 | 5 | WG59182-103,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 12:39:03 |
| 6 | PB7C_131A | 6 | 6 | WG59182-104,,BLK | 1,WG59182,1.0/20uL | 17-APR-17 13:43:22 |
| 7 | PB7C_131A | 7 | 7 | L27062-3,I, | 1,WG58451,1.0/20uL | 17-APR-17 14:47:36 |
| 8 | PB7C_131A | 8 | 8 | L27084-1,, | 1,WG59182,1.0/20uL | 17-APR-17 15:51:49 |
| 9 | PB7C_131A | 9 | 9 | L27084-2,, | 1,WG59182,1.0/20uL | 17-APR-17 16:56:04 |
| 10 | PB7C_131A | 10 | 10 | L27084-3,, | 1,WG59182,1.0/20uL | 17-APR-17 18:00:18 |
| 11 | PB7C_131A | 11 | 11 | PB109A-CAL,,/01-32 | 1,,1.0uL Cal | 17-APR-17 19:04:30 |

Run #7 Filename PB7C_131A S: 1 I: 1 Acquired: 17-APR-17 08:21:59 Processed: 19-APR-17 06:42:46
Run: pb7c_131a-b Analyte: 1668A-CV8 Cal: pb6c_435b-7a Results: pb7c_131a-b Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal
sample size: 1.000000 conc units: ng/mL total toxicity: 1354.60 F1: 1.0000 F2: 1.0000

| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 2.19e+07 | 3.10 | y | 11:32 | 22.749 | 23 | 0.0160 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 2.16e+07 | 3.09 | y | 13:45 | 23.440 | 23 | 0.0205 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 1.31e+07 | 1.53 | y | 14:00 | 24.094 | 24 | 0.0372 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 2.20e+07 | 1.53 | y | 20:04 | 27.241 | 27 | 0.0318 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 1.37e+07 | 1.06 | y | 17:11 | 25.607 | 26 | 0.0188 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 1.86e+07 | 1.03 | y | 27:21 | 24.156 | 24 | 0.0642 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 3.62e+07 | 0.78 | y | 20:20 | 49.162 | 49 | 0.0230 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 3.59e+07 | 0.76 | y | 34:24 | 51.791 | 52 | 0.8371 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 3.30e+07 | 0.76 | y | 34:59 | 47.780 | 48 | 0.8594 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.85e+07 | 1.54 | y | 26:03 | 49.440 | 49 | 0.0120 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 2.88e+07 | 1.54 | y | 37:04 | 48.921 | 49 | 2.2374 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.04e+07 | 1.56 | y | 37:25 | 50.482 | 50 | 2.2429 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.07e+07 | 1.56 | y | 37:58 | 53.142 | 53 | 2.2747 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 3.09e+07 | 1.48 | y | 38:39 | 59.393 | 59 | 2.5983 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 2.28e+07 | 1.51 | y | 41:53 | 52.889 | 53 | 3.2522 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 3.96e+07 | 1.26 | y | 31:59 | 49.421 | 49 | 0.0106 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 2.37e+07 | 1.26 | y | 43:50 | 53.840 | 54 | 2.8279 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 4.19e+07 | 1.23 | y | 45:02 | 98.756 | 99 | 3.5597 | - | n |
| 19 | Unk | CL6-PCB-169 | 1 | 1.94e+07 | 1.28 | y | 48:26 | 51.847 | 52 | 3.5463 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.59e+07 | 1.03 | y | 37:57 | 48.993 | 49 | 0.0230 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 1.54e+07 | 1.05 | y | 51:05 | 49.802 | 50 | 0.0944 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 3.58e+07 | 0.89 | y | 43:33 | 80.554 | 81 | 0.0209 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 2.12e+07 | 0.90 | y | 53:46 | 77.292 | 77 | 0.0650 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 2.23e+07 | 0.79 | y | 50:34 | 82.399 | 82 | 0.0467 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.59e+07 | 0.78 | y | 55:35 | 77.996 | 78 | 0.0640 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 2.26e+07 | 1.16 | y | 57:15 | 73.409 | 73 | 0.0235 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 8.81e+07 | 3.15 | y | 11:31 | 100.173 | 0 | 0.2074 | 100.2 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 8.42e+07 | 3.11 | y | 13:44 | 98.247 | 0 | 0.2127 | 98.2 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 5.31e+07 | 1.59 | y | 13:59 | 94.109 | 0 | 0.0746 | 94.1 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 8.71e+07 | 1.57 | y | 20:03 | 94.302 | 0 | 0.0455 | 94.3 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 5.41e+07 | 1.04 | y | 17:10 | 107.189 | 0 | 0.2627 | 107.2 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 7.62e+07 | 1.05 | y | 27:19 | 80.172 | 0 | 0.1988 | 80.2 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 7.08e+07 | 0.79 | y | 20:19 | 91.003 | 0 | 0.0275 | 91.0 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 6.77e+07 | 0.76 | y | 34:22 | 87.980 | 0 | 0.0300 | 88.0 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 6.87e+07 | 0.77 | y | 34:58 | 86.652 | 0 | 0.0291 | 86.7 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 7.43e+07 | 1.57 | y | 26:02 | 95.349 | 0 | 0.0118 | 95.3 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 6.07e+07 | 1.58 | y | 37:03 | 86.910 | 0 | 0.0756 | 86.9 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 5.89e+07 | 1.58 | y | 37:24 | 85.434 | 0 | 0.0766 | 85.4 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.44e+07 | 1.63 | y | 37:57 | 81.407 | 0 | 0.0791 | 81.4 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 5.11e+07 | 1.63 | y | 38:37 | 74.490 | 0 | 0.0770 | 74.5 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 4.19e+07 | 1.54 | y | 41:52 | 66.767 | 0 | 0.0841 | 66.8 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 7.96e+07 | 1.24 | y | 31:57 | 127.539 | 0 | 0.0135 | 127.5 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 3.98e+07 | 1.27 | y | 43:48 | 87.847 | 0 | 0.0417 | 87.8 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 7.87e+07 | 1.25 | y | 45:00 | 166.481 | 0 | 0.0400 | 83.2 | n |

PV by TD 19-Apr-2017

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 3.67e+07 | 1.24 | y | 48:25 | 81.365 | 0 | 0.0420 | 81.4 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 5.57e+07 | 1.06 | y | 37:55 | 103.570 | 0 | 0.0214 | 103.6 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 3.09e+07 | 1.05 | y | 51:03 | 88.151 | 0 | 0.0625 | 88.2 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 5.20e+07 | 0.91 | y | 43:32 | 104.437 | 0 | 0.0200 | 104.4 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 2.88e+07 | 0.88 | y | 53:45 | 87.897 | 0 | 0.0462 | 87.9 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 2.98e+07 | 0.78 | y | 50:32 | 94.940 | 0 | 0.0339 | 94.9 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.18e+07 | 0.77 | y | 55:34 | 92.084 | 0 | 0.0448 | 92.1 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 3.02e+07 | 1.18 | y | 57:14 | 101.139 | 0 | 0.0268 | 101.1 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 8.46e+07 | 1.58 | y | 16:01 | 53.110 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.54e+07 | 0.78 | y | 25:03 | 63.283 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 5.30e+07 | 1.60 | y | 32:11 | 68.491 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.59e+07 | 1.28 | y | 40:38 | 52.154 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.15e+07 | 0.93 | y | 53:15 | 49.770 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 7.97e+07 | 1.04 | y | 23:10 | 84.962 | 0 | 0.2015 | 85.0 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 5.82e+07 | 1.63 | y | 35:00 | 83.809 | 0 | 0.0217 | 83.8 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.48e+07 | 1.04 | y | 41:07 | 98.302 | 0 | 0.0307 | 98.3 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 7.08e+07 | 0.79 | y | 20:19 | 91.003 | 0 | 0.0275 | 91.0 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 5.57e+07 | 1.06 | y | 37:55 | 103.570 | 0 | 0.0214 | 103.6 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

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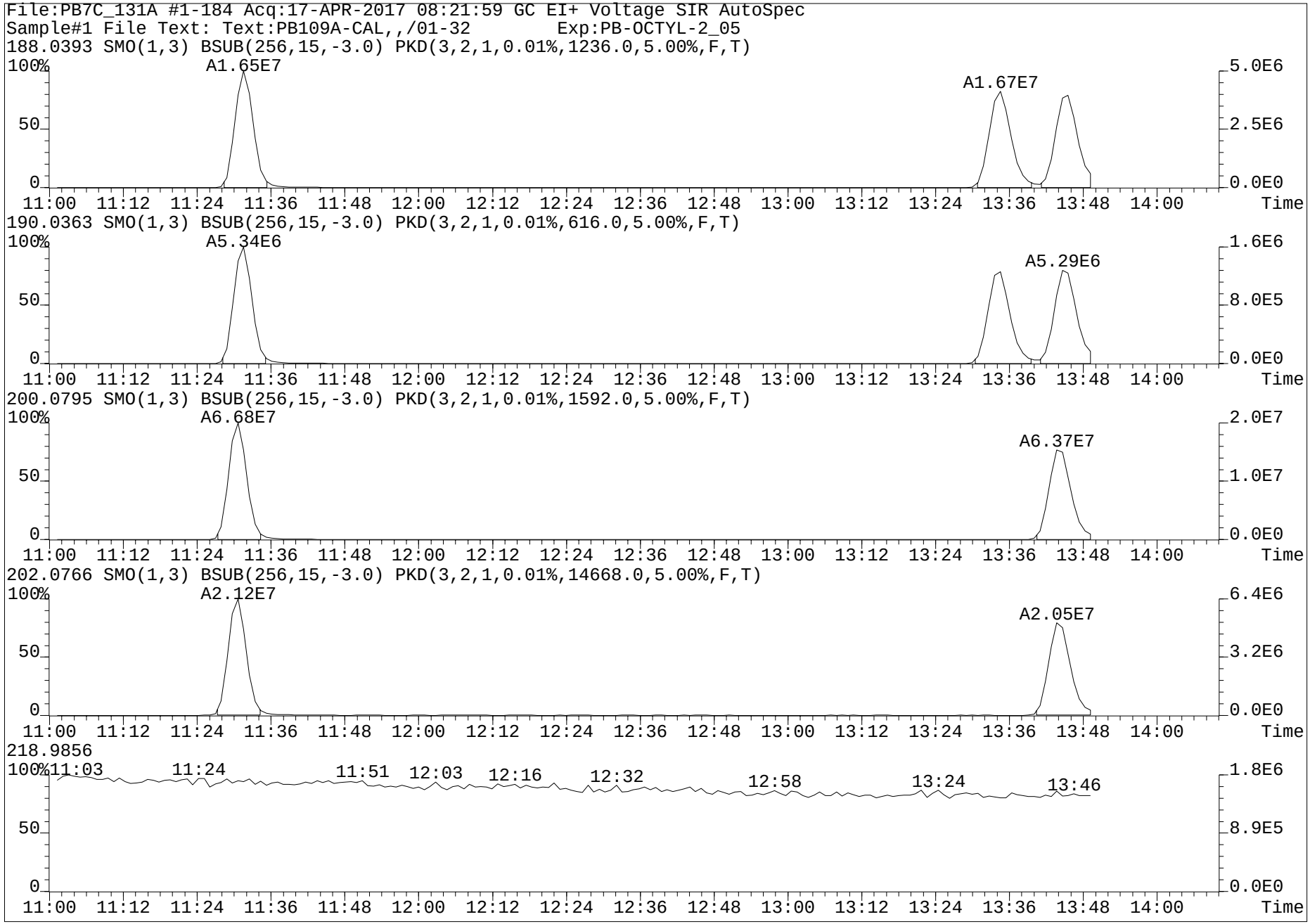
Run #1 Filename PB7C_131A S: 1 I: 1 Acquired: 17-APR-17 08:21:59 Processed: 19-APR-17 06:45:39
Run: pb7c_131a-bc Analyte: 1668XB-C8 Cal: PB9C_274A-CAL Results: pb7c_131a-bc Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal F1: 1.00 F2: 1.00

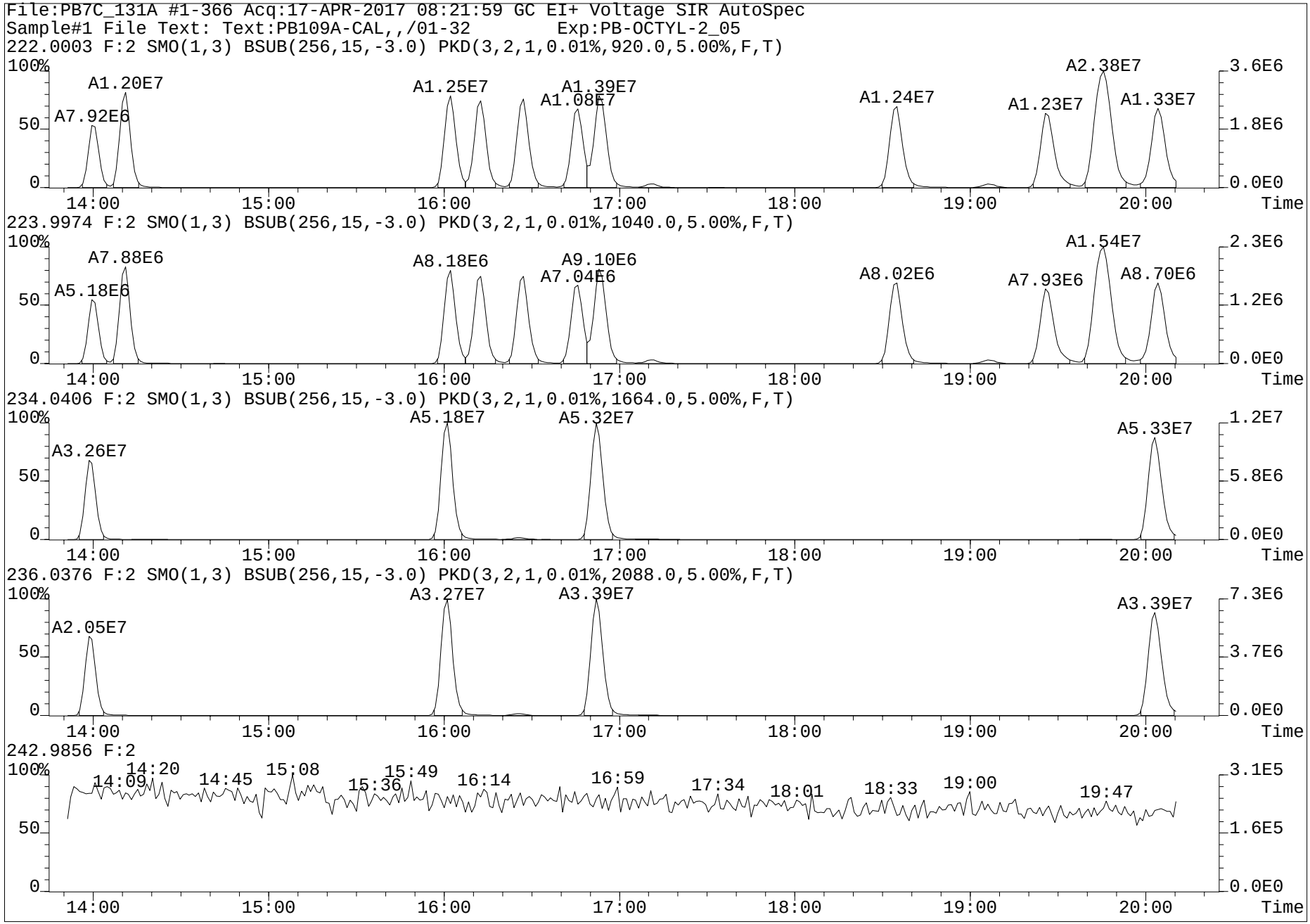
| | Typ | Name | Amount | Resp | RA | | RT | RF | RRF | | Modified? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-2 | 25.00 | 2.19e+07 | 3.20 | y | 13:35 | - | 1.0156 | n | n |
| 2 | Unk | CL2-PCB-10 | 25.00 | 1.99e+07 | 1.53 | y | 14:11 | - | 1.1348 | n | n |
| 3 | Unk | CL2-PCB-9 | 25.00 | 2.07e+07 | 1.53 | y | 16:02 | - | 1.1825 | n | n |
| 4 | Unk | CL2-PCB-7 | 25.00 | 2.03e+07 | 1.53 | y | 16:12 | - | 1.1604 | n | n |
| 5 | Unk | CL2-PCB-6 | 25.00 | 2.06e+07 | 1.56 | y | 16:27 | - | 1.1726 | n | n |
| 6 | Unk | CL2-PCB-5 | 25.00 | 1.78e+07 | 1.53 | y | 16:45 | - | 1.0163 | n | n |
| 7 | Unk | CL2-PCB-8 | 25.00 | 2.30e+07 | 1.53 | y | 16:53 | - | 1.3127 | n | n |
| 8 | Unk | CL2-PCB-14 | 25.00 | 2.04e+07 | 1.55 | y | 18:35 | - | 1.1655 | n | n |
| 9 | Unk | CL2-PCB-11 | 25.00 | 2.02e+07 | 1.54 | y | 19:27 | - | 1.1516 | n | n |
| 10 | Unk | CL2-PCB-12/13 | 50.00 | 3.93e+07 | 1.54 | y | 19:46 | - | 1.1199 | n | n |
| 11 | Unk | CL3-PCB-30/18 | 50.00 | 3.58e+07 | 1.04 | y | 19:06 | - | 1.0998 | n | n |
| 12 | Unk | CL3-PCB-17 | 25.00 | 1.54e+07 | 1.05 | y | 19:32 | - | 0.9437 | n | n |
| 13 | Unk | CL3-PCB-27 | 25.00 | 2.17e+07 | 1.03 | y | 19:45 | - | 1.3302 | n | n |
| 14 | Unk | CL3-PCB-24 | 25.00 | 1.99e+07 | 1.04 | y | 19:53 | - | 1.2236 | n | n |
| 15 | Unk | CL3-PCB-16 | 25.00 | 1.28e+07 | 1.05 | y | 19:60 | - | 0.7850 | n | n |
| 16 | Unk | CL3-PCB-32 | 25.00 | 1.98e+07 | 1.03 | y | 20:33 | - | 1.2168 | n | n |
| 17 | Unk | CL3-PCB-34 | 25.00 | 1.85e+07 | 1.03 | y | 21:51 | - | 1.1380 | n | n |
| 18 | Unk | CL3-PCB-23 | 25.00 | 1.83e+07 | 1.04 | y | 22:00 | - | 1.1213 | n | n |
| 19 | Unk | CL3-PCB-26/29 | 50.00 | 3.87e+07 | 1.03 | y | 22:20 | - | 1.1876 | n | n |
| 20 | Unk | CL3-PCB-25 | 25.00 | 2.20e+07 | 1.02 | y | 22:34 | - | 1.3529 | n | n |
| 21 | Unk | CL3-PCB-31 | 25.00 | 2.05e+07 | 1.02 | y | 22:53 | - | 1.2566 | n | n |
| 22 | Unk | CL3-PCB-28/20 | 50.00 | 3.95e+07 | 1.02 | y | 23:13 | - | 1.2138 | n | n |
| 23 | Unk | CL3-PCB-21/33 | 50.00 | 4.00e+07 | 1.04 | y | 23:24 | - | 1.2264 | n | n |
| 24 | Unk | CL3-PCB-22 | 25.00 | 1.81e+07 | 1.02 | y | 23:50 | - | 1.1105 | n | n |
| 25 | Unk | CL3-PCB-36 | 25.00 | 2.11e+07 | 1.03 | y | 25:29 | - | 1.2935 | n | n |
| 26 | Unk | CL3-PCB-39 | 25.00 | 1.98e+07 | 1.02 | y | 25:51 | - | 1.2182 | n | n |
| 27 | Unk | CL3-PCB-38 | 25.00 | 1.97e+07 | 1.04 | y | 26:27 | - | 1.2087 | n | n |
| 28 | Unk | CL3-PCB-35 | 25.00 | 2.03e+07 | 1.02 | y | 26:56 | - | 1.2468 | n | n |
| 29 | Unk | CL4-PCB-50/53 | 100.00 | 5.74e+07 | 0.78 | y | 22:36 | - | 0.8305 | n | n |
| 30 | Unk | CL4-PCB-45/51 | 100.00 | 5.58e+07 | 0.78 | y | 23:18 | - | 0.8083 | n | y |
| 31 | Unk | CL4-PCB-46 | 50.00 | 2.44e+07 | 0.76 | y | 23:35 | - | 0.7064 | n | n |
| 32 | Unk | CL4-PCB-52 | 50.00 | 2.93e+07 | 0.79 | y | 25:04 | - | 0.8473 | n | n |
| 33 | Unk | CL4-PCB-73 | 50.00 | 3.72e+07 | 0.76 | y | 25:13 | - | 1.0773 | n | n |
| 34 | Unk | CL4-PCB-43 | 50.00 | 2.50e+07 | 0.76 | y | 25:20 | - | 0.7244 | n | n |
| 35 | Unk | CL4-PCB-69/49 | 100.00 | 6.71e+07 | 0.78 | y | 25:33 | - | 0.9722 | n | n |
| 36 | Unk | CL4-PCB-48 | 50.00 | 2.86e+07 | 0.78 | y | 25:52 | - | 0.8280 | n | n |
| 37 | Unk | CL4-PCB-44/47/65 | 150.00 | 9.46e+07 | 0.78 | y | 26:07 | - | 0.9130 | n | y |
| 38 | Unk | CL4-PCB-59/62/75 | 150.00 | 1.15e+08 | 0.79 | y | 26:27 | - | 1.1087 | n | n |
| 39 | Unk | CL4-PCB-42 | 50.00 | 2.76e+07 | 0.72 | y | 26:39 | - | 0.7998 | n | n |
| 40 | Unk | CL4-PCB-41/40/71 | 150.00 | 8.74e+07 | 0.77 | y | 27:07 | - | 0.8439 | n | y |
| 41 | Unk | CL4-PCB-64 | 50.00 | 3.96e+07 | 0.78 | y | 27:23 | - | 1.1475 | n | n |
| 42 | Unk | CL4-PCB-72 | 50.00 | 3.72e+07 | 0.77 | y | 28:17 | - | 1.0770 | n | n |
| 43 | Unk | CL4-PCB-68 | 50.00 | 3.72e+07 | 0.77 | y | 28:35 | - | 1.0784 | n | n |
| 44 | Unk | CL4-PCB-57 | 50.00 | 3.57e+07 | 0.77 | y | 29:02 | - | 1.0349 | n | n |

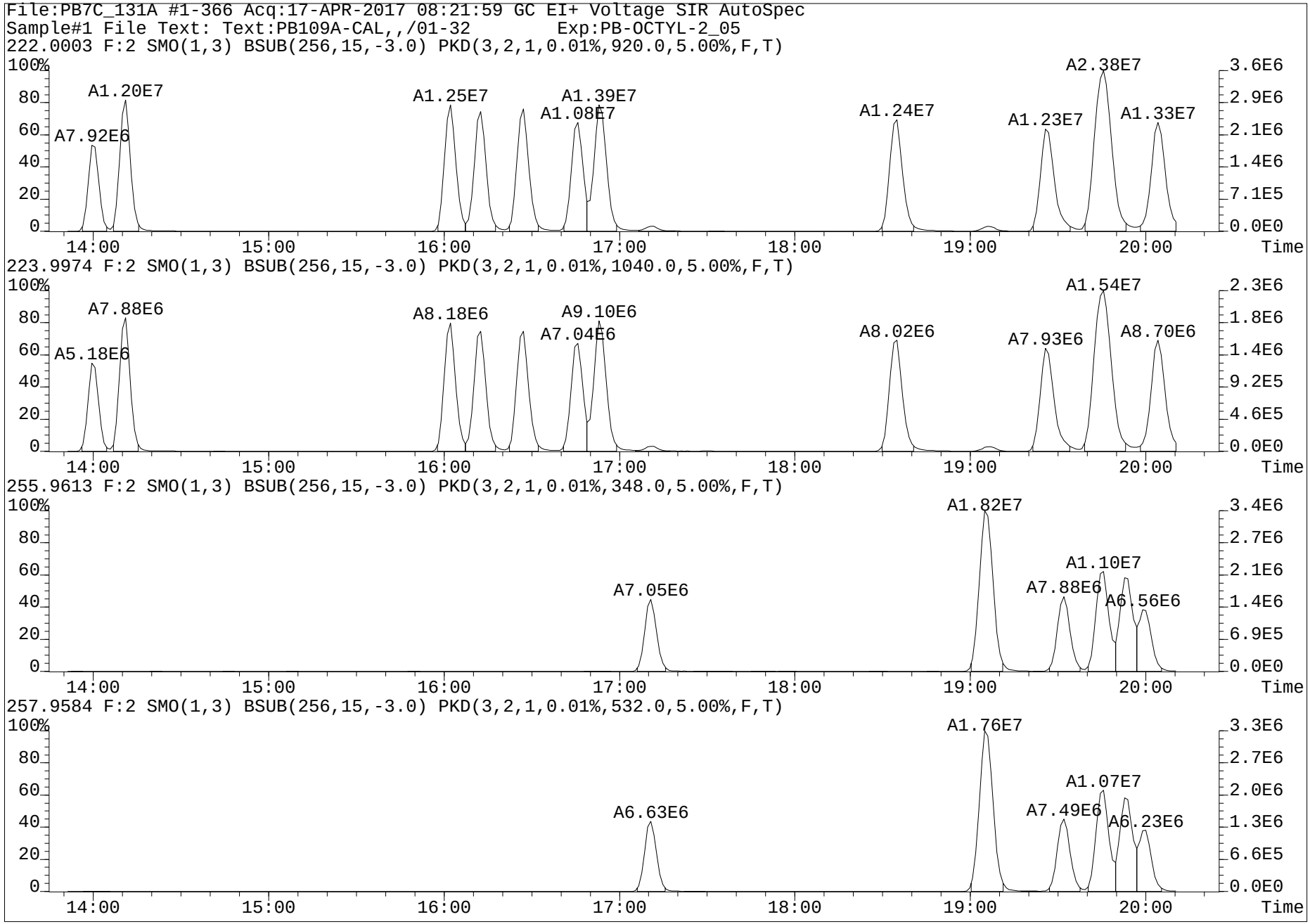
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 45 | Unk | CL4-PCB-58 | 50.00 | 3.46e+07 | 0.77 y | 29:16 | - | 1.0012 | n | n |
| 46 | Unk | CL4-PCB-67 | 50.00 | 4.05e+07 | 0.77 y | 29:27 | - | 1.1727 | n | n |
| 47 | Unk | CL4-PCB-63 | 50.00 | 3.67e+07 | 0.77 y | 29:43 | - | 1.0637 | n | n |
| 48 | Unk | CL4-PCB-61/70/74/76 | 200.00 | 1.42e+08 | 0.77 y | 30:03 | - | 1.0305 | n | n |
| 49 | Unk | CL4-PCB-66 | 50.00 | 3.51e+07 | 0.77 y | 30:24 | - | 1.0154 | n | n |
| 50 | Unk | CL4-PCB-55 | 50.00 | 3.46e+07 | 0.76 y | 30:34 | - | 1.0023 | n | n |
| 51 | Unk | CL4-PCB-56 | 50.00 | 3.31e+07 | 0.77 y | 31:06 | - | 0.9581 | n | n |
| 52 | Unk | CL4-PCB-60 | 50.00 | 3.39e+07 | 0.76 y | 31:19 | - | 0.9811 | n | n |
| 53 | Unk | CL4-PCB-80 | 50.00 | 3.82e+07 | 0.76 y | 31:47 | - | 1.1066 | n | n |
| 54 | Unk | CL4-PCB-79 | 50.00 | 4.16e+07 | 0.77 y | 33:22 | - | 1.2051 | n | n |
| 55 | Unk | CL4-PCB-78 | 50.00 | 3.69e+07 | 0.77 y | 33:57 | - | 1.0689 | n | n |
| 56 | Unk | CL5-PCB-96 | 50.00 | 3.88e+07 | 1.57 y | 26:25 | - | 1.2965 | n | n |
| 57 | Unk | CL5-PCB-103 | 50.00 | 2.77e+07 | 1.55 y | 28:27 | - | 0.9264 | n | n |
| 58 | Unk | CL5-PCB-94 | 50.00 | 2.26e+07 | 1.57 y | 28:40 | - | 0.7537 | n | n |
| 59 | Unk | L5-PCB-95/100/93/102/98 | 250.00 | 1.26e+08 | 1.57 y | 29:23 | - | 0.8420 | n | y |
| 60 | Unk | CL5-PCB-88/91 | 100.00 | 4.90e+07 | 1.56 y | 29:59 | - | 0.8189 | n | y |
| 61 | Unk | CL5-PCB-84 | 50.00 | 2.20e+07 | 1.59 y | 30:15 | - | 0.7347 | n | n |
| 62 | Unk | CL5-PCB-89 | 50.00 | 2.40e+07 | 1.59 y | 30:45 | - | 0.8006 | n | n |
| 63 | Unk | CL5-PCB-121 | 50.00 | 3.20e+07 | 1.53 y | 31:13 | - | 1.0703 | n | n |
| 64 | Unk | CL5-PCB-92 | 50.00 | 2.52e+07 | 1.57 y | 31:36 | - | 0.8421 | n | y |
| 65 | Unk | CL5-PCB-113/90/101 | 150.00 | 8.58e+07 | 1.59 y | 32:11 | - | 0.9552 | n | n |
| 66 | Unk | CL5-PCB-83/99 | 100.00 | 4.77e+07 | 1.56 y | 32:45 | - | 0.7960 | n | y |
| 67 | Unk | CL5-PCB-112 | 50.00 | 3.78e+07 | 1.57 y | 32:56 | - | 1.2611 | n | n |
| 68 | Unk | CB-109/119/86/97/125/87 | 300.00 | 1.73e+08 | 1.56 y | 33:21 | - | 0.9614 | n | n |
| 69 | Unk | CL5-PCB-117/116/85 | 150.00 | 9.02e+07 | 1.57 y | 34:03 | - | 1.0045 | n | n |
| 70 | Unk | CL5-PCB-110/115 | 100.00 | 6.87e+07 | 1.57 y | 34:18 | - | 1.1471 | n | n |
| 71 | Unk | CL5-PCB-82 | 50.00 | 2.29e+07 | 1.55 y | 34:35 | - | 0.7654 | n | n |
| 72 | Unk | CL5-PCB-111 | 50.00 | 3.39e+07 | 1.55 y | 35:02 | - | 1.1318 | n | y |
| 73 | Unk | CL5-PCB-120 | 50.00 | 3.54e+07 | 1.60 y | 35:31 | - | 1.1829 | n | y |
| 74 | Unk | CL5-PCB-108/124 | 100.00 | 6.00e+07 | 1.54 y | 36:42 | - | 1.0029 | n | n |
| 75 | Unk | CL5-PCB-107 | 50.00 | 3.05e+07 | 1.53 y | 36:57 | - | 1.0177 | n | n |
| 76 | Unk | CL5-PCB-106 | 50.00 | 3.46e+07 | 1.55 y | 37:11 | - | 1.1565 | n | n |
| 77 | Unk | CL5-PCB-122 | 50.00 | 2.84e+07 | 1.52 y | 37:46 | - | 0.9479 | n | n |
| 78 | Unk | CL5-PCB-127 | 50.00 | 2.36e+07 | 1.45 y | 40:12 | - | 0.7871 | n | n |
| 79 | Unk | CL6-PCB-152 | 50.00 | 4.04e+07 | 1.31 y | 32:09 | - | 1.7197 | n | n |
| 80 | Unk | CL6-PCB-150 | 50.00 | 3.82e+07 | 1.21 y | 32:19 | - | 1.6256 | n | y |
| 81 | Unk | CL6-PCB-136 | 50.00 | 3.88e+07 | 1.26 y | 32:42 | - | 1.6513 | n | n |
| 82 | Unk | CL6-PCB-145 | 50.00 | 3.62e+07 | 1.29 y | 33:00 | - | 1.5424 | n | y |
| 83 | Unk | CL6-PCB-148 | 50.00 | 2.41e+07 | 1.24 y | 34:37 | - | 1.0257 | n | n |
| 84 | Unk | CL6-PCB-151/135/154 | 150.00 | 7.51e+07 | 1.27 y | 35:21 | - | 1.0667 | n | y |
| 85 | Unk | CL6-PCB-144 | 50.00 | 2.34e+07 | 1.26 y | 35:49 | - | 0.9967 | n | n |
| 86 | Unk | CL6-PCB-147/149 | 100.00 | 5.02e+07 | 1.24 y | 36:12 | - | 1.0690 | n | n |
| 87 | Unk | CL6-PCB-134/143 | 100.00 | 4.24e+07 | 1.38 y | 36:26 | - | 0.9038 | n | y |
| 88 | Unk | CL6-PCB-139/140 | 100.00 | 4.32e+07 | 1.30 y | 36:49 | - | 0.9198 | n | n |
| 89 | Unk | CL6-PCB-131 | 50.00 | 1.77e+07 | 1.36 y | 37:01 | - | 0.7523 | n | n |
| 90 | Unk | CL6-PCB-142 | 50.00 | 1.84e+07 | 1.19 y | 37:10 | - | 0.7840 | n | y |
| 91 | Unk | CL6-PCB-132 | 50.00 | 1.71e+07 | 1.26 y | 37:30 | - | 0.7280 | n | n |
| 92 | Unk | CL6-PCB-133 | 50.00 | 1.82e+07 | 1.25 y | 38:02 | - | 0.7771 | n | y |
| 93 | Unk | CL6-PCB-165 | 50.00 | 2.23e+07 | 1.24 y | 38:27 | - | 0.9495 | n | y |
| 94 | Unk | CL6-PCB-146 | 50.00 | 2.13e+07 | 1.23 y | 38:43 | - | 0.9057 | n | n |
| 95 | Unk | CL6-PCB-161 | 50.00 | 2.59e+07 | 1.26 y | 38:52 | - | 1.1045 | n | n |
| 96 | Unk | CL6-PCB-153/168 | 100.00 | 4.49e+07 | 1.23 y | 39:23 | - | 0.9556 | n | n |
| 97 | Unk | CL6-PCB-141 | 50.00 | 1.96e+07 | 1.23 y | 39:34 | - | 0.8355 | n | n |

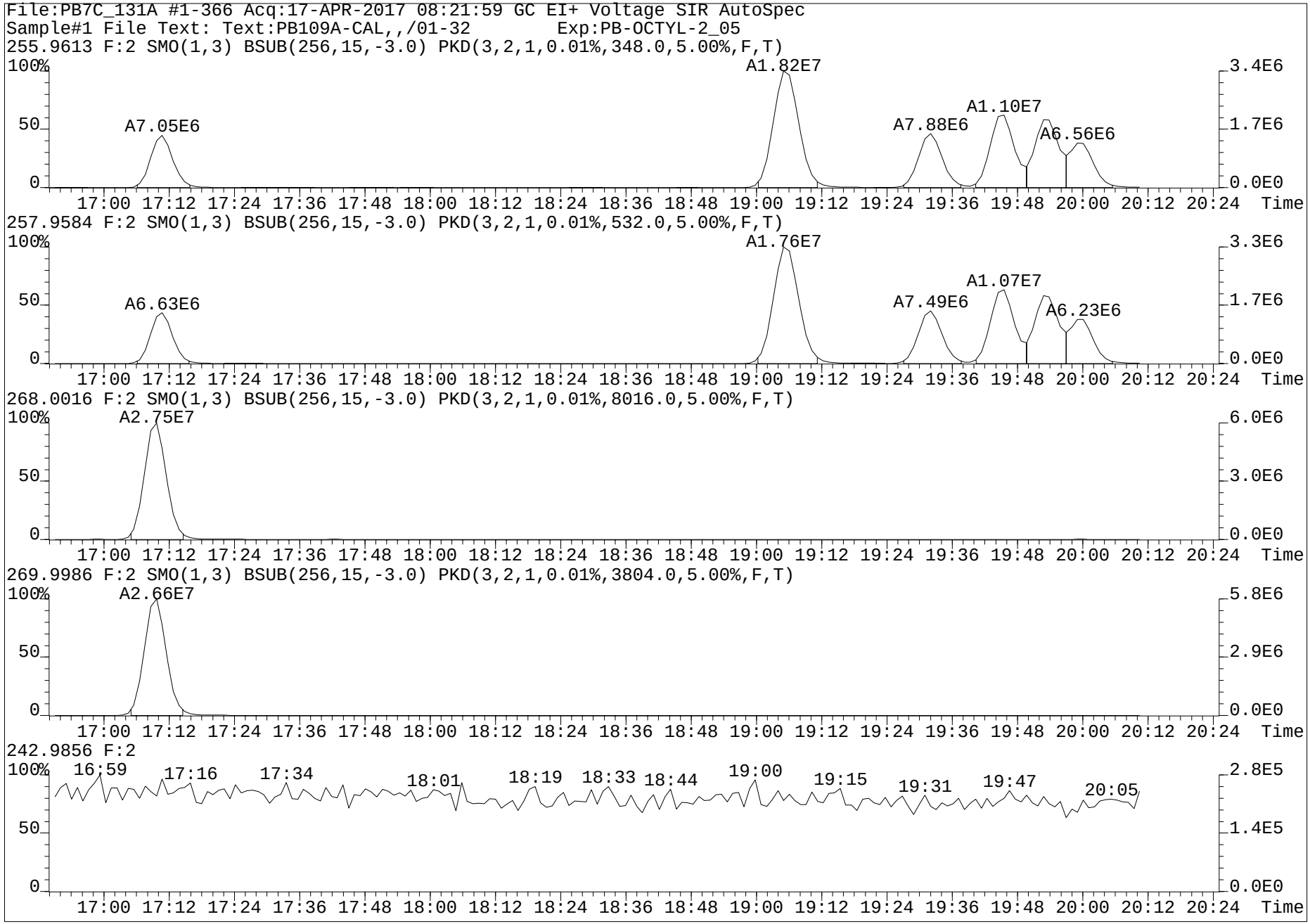
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|---|---|---|---|---|---|---|---|---|---|---|
| 98 | Unk | CL6-PCB-130 | 50.00 | 1.64e+07 | 1.20 y | 39:59 | - | 0.6976 | n | n |
| 99 | Unk | CL6-PCB-137 | 50.00 | 1.52e+07 | 1.22 y | 40:13 | - | 0.6478 | n | n |
| 1» | Unk | CL6-PCB-164 | 50.00 | 2.65e+07 | 1.25 y | 40:20 | - | 1.1305 | n | n |
| 1» | Unk | CL6-PCB-138/163/129/160 | 200.00 | 8.14e+07 | 1.24 y | 40:43 | - | 0.8668 | n | y |
| 1» | Unk | CL6-PCB-158 | 50.00 | 2.59e+07 | 1.21 y | 41:05 | - | 1.1014 | n | y |
| 1» | Unk | CL6-PCB-128/166 | 100.00 | 4.03e+07 | 1.24 y | 41:58 | - | 0.8579 | n | n |
| 1» | Unk | CL6-PCB-159 | 50.00 | 2.24e+07 | 1.23 y | 43:01 | - | 0.9523 | n | n |
| 1» | Unk | CL6-PCB-162 | 50.00 | 2.31e+07 | 1.25 y | 43:19 | - | 0.9861 | n | y |
| 1» | Unk | CL7-PCB-179 | 50.00 | 2.53e+07 | 1.04 y | 38:17 | - | 1.1698 | n | n |
| 1» | Unk | CL7-PCB-184 | 50.00 | 2.64e+07 | 1.04 y | 38:51 | - | 1.2192 | n | n |
| 1» | Unk | CL7-PCB-176 | 50.00 | 2.47e+07 | 1.03 y | 39:13 | - | 1.1427 | n | n |
| 1» | Unk | CL7-PCB-186 | 50.00 | 2.32e+07 | 1.02 y | 39:41 | - | 1.0723 | n | n |
| 1» | Unk | CL7-PCB-178 | 50.00 | 1.72e+07 | 1.02 y | 41:08 | - | 0.7942 | n | n |
| 1» | Unk | CL7-PCB-175 | 50.00 | 1.81e+07 | 1.03 y | 41:48 | - | 0.8350 | n | n |
| 1» | Unk | CL7-PCB-187 | 50.00 | 1.90e+07 | 1.05 y | 42:05 | - | 0.8768 | n | n |
| 1» | Unk | CL7-PCB-182 | 50.00 | 1.88e+07 | 1.01 y | 42:18 | - | 0.8700 | n | y |
| 1» | Unk | CL7-PCB-183/185 | 100.00 | 3.44e+07 | 1.05 y | 42:45 | - | 0.7949 | n | y |
| 1» | Unk | CL7-PCB-174 | 50.00 | 1.84e+07 | 1.04 y | 42:58 | - | 0.8492 | n | n |
| 1» | Unk | CL7-PCB-177 | 50.00 | 2.01e+07 | 1.03 y | 43:25 | - | 0.9298 | n | n |
| 1» | Unk | CL7-PCB-181 | 50.00 | 1.62e+07 | 1.00 y | 43:50 | - | 0.7512 | n | n |
| 1» | Unk | CL7-PCB-171/173 | 100.00 | 3.20e+07 | 1.01 y | 44:03 | - | 0.7396 | n | y |
| 1» | Unk | CL7-PCB-172 | 50.00 | 1.53e+07 | 1.04 y | 45:47 | - | 0.7067 | n | n |
| 1» | Unk | CL7-PCB-192 | 50.00 | 1.84e+07 | 1.01 y | 46:06 | - | 0.8489 | n | n |
| 1» | Unk | CL7-PCB-180/193 | 118.00 | 3.75e+07 | 1.04 y | 46:26 | - | 0.9264 | n | n |
| 1» | Unk | CL7-PCB-191 | 50.00 | 2.00e+07 | 1.05 y | 46:51 | - | 0.9255 | n | n |
| 1» | Unk | CL7-PCB-170 | 50.00 | 1.44e+07 | 1.03 y | 47:47 | - | 1.0457 | n | n |
| 1» | Unk | CL7-PCB-190 | 50.00 | 1.89e+07 | 1.02 y | 48:20 | - | 0.8745 | n | y |
| 1» | Unk | CL8-PCB-201 | 75.00 | 3.52e+07 | 0.88 y | 44:32 | - | 1.1628 | n | n |
| 1» | Unk | CL8-PCB-204 | 75.00 | 3.42e+07 | 0.89 y | 45:14 | - | 1.1304 | n | n |
| 1» | Unk | CL8-PCB-197/200 | 150.00 | 7.27e+07 | 0.89 y | 45:30 | - | 1.1998 | n | y |
| 1» | Unk | CL8-PCB-198/199 | 150.00 | 4.66e+07 | 0.90 y | 48:29 | - | 0.7692 | n | y |
| 1» | Unk | CL8-PCB-196 | 75.00 | 2.41e+07 | 0.89 y | 49:12 | - | 0.7971 | n | n |
| 1» | Unk | CL8-PCB-203 | 75.00 | 2.52e+07 | 0.91 y | 49:25 | - | 0.8331 | n | n |
| 1» | Unk | CL8-PCB-195 | 75.00 | 1.70e+07 | 0.89 y | 50:49 | - | 0.5596 | n | n |
| 1» | Unk | CL8-PCB-194 | 75.00 | 1.84e+07 | 0.89 y | 53:16 | - | 0.6090 | n | n |
| 1» | Unk | CL9-PCB-207 | 75.00 | 2.24e+07 | 0.78 y | 51:32 | - | 1.1556 | n | n |
| 1» | IS | 13C-CL1-PCB-1 | 100.00 | 8.81e+07 | 3.15 y | 11:31 | - | 1.0417 | n | n |
| 1» | IS | 13C-CL1-PCB-3 | 100.00 | 8.42e+07 | 3.11 y | 13:44 | - | 0.9963 | n | n |
| 1» | IS | 13C-CL2-PCB-4 | 100.00 | 5.31e+07 | 1.59 y | 13:59 | - | 0.6281 | n | n |
| 1» | IS | 13C-CL2-PCB-15 | 100.00 | 8.71e+07 | 1.57 y | 20:03 | - | 1.0305 | n | n |
| 1» | IS | 13C-CL3-PCB-19 | 100.00 | 5.41e+07 | 1.04 y | 17:10 | - | 0.6399 | n | n |
| 1» | IS | 13C-CL3-PCB-37 | 100.00 | 7.62e+07 | 1.05 y | 27:19 | - | 1.3744 | n | n |
| 1» | REF | 13C-CL4-CHECK | 100.00 | 7.08e+07 | 0.79 y | 20:19 | - | 1.2763 | n | n |
| 1» | IS | 13C-CL4-PCB-81 | 100.00 | 6.77e+07 | 0.76 y | 34:22 | - | 1.2207 | n | n |
| 1» | IS | 13C-CL4-PCB-77 | 100.00 | 6.87e+07 | 0.77 y | 34:58 | - | 1.2396 | n | n |
| 1» | IS | 13C-CL5-PCB-104 | 100.00 | 7.43e+07 | 1.57 y | 26:02 | - | 1.4019 | n | n |
| 1» | IS | 13C-CL5-PCB-123 | 100.00 | 6.07e+07 | 1.58 y | 37:03 | - | 1.1458 | n | n |
| 1» | IS | 13C-CL5-PCB-118 | 100.00 | 5.89e+07 | 1.58 y | 37:24 | - | 1.1115 | n | n |
| 1» | IS | 13C-CL5-PCB-114 | 100.00 | 5.44e+07 | 1.63 y | 37:57 | - | 1.0268 | n | n |
| 1» | IS | 13C-CL5-PCB-105 | 100.00 | 5.11e+07 | 1.63 y | 38:37 | - | 0.9642 | n | n |
| 1» | IS | 13C-CL5-PCB-126 | 100.00 | 4.19e+07 | 1.54 y | 41:52 | - | 0.7916 | n | n |

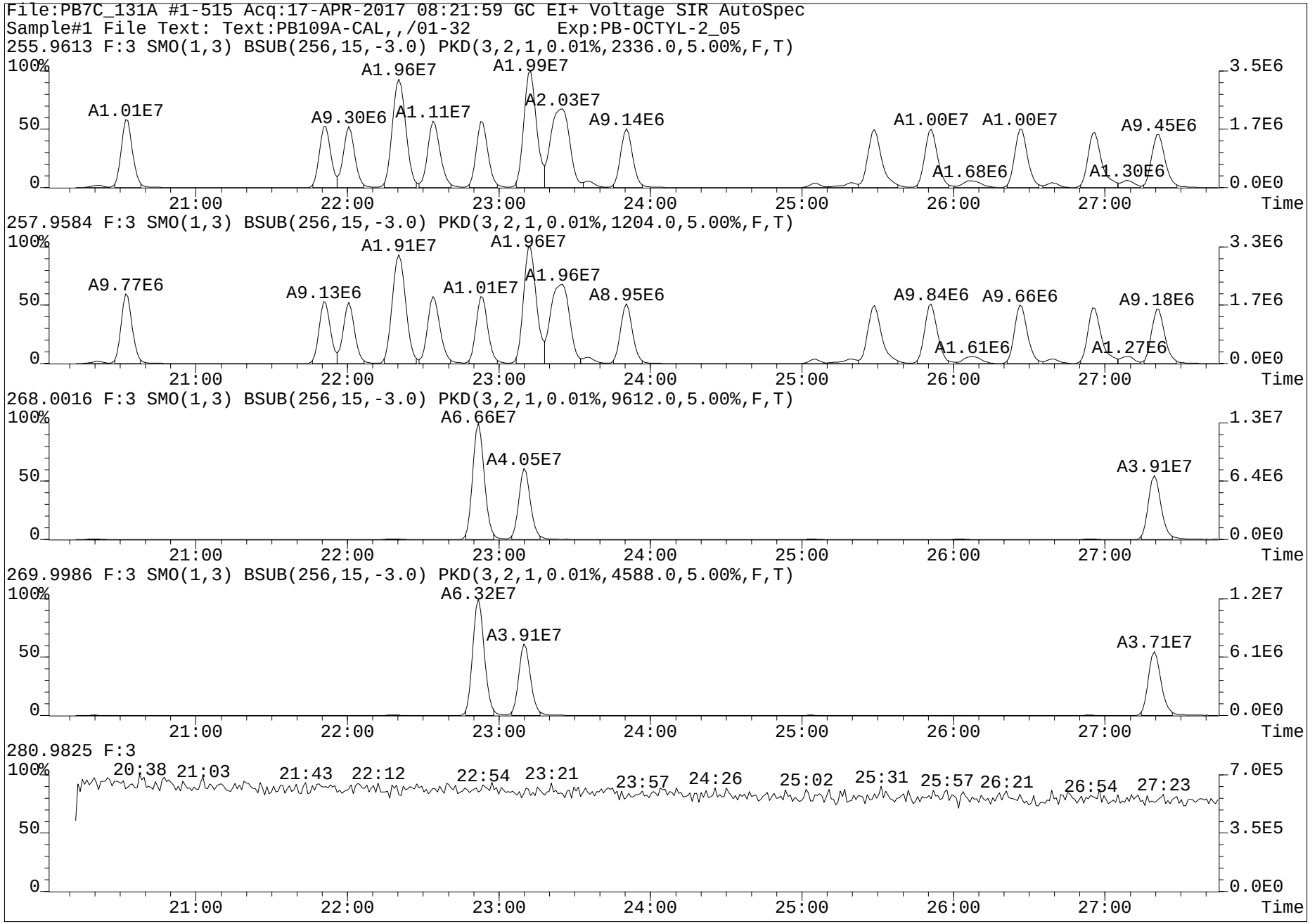
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1» | IS | 13C-CL6-PCB-155 | 100.00 | 7.96e+07 | 1.24 y | 31:57 | - | 2.2197 | n | n |
| 1» | IS | 13C-CL6-PCB-167 | 100.00 | 3.98e+07 | 1.27 y | 43:48 | - | 1.1097 | n | n |
| 1» | IS | 13C-CL6-PCB-156/157 | 200.00 | 7.87e+07 | 1.25 y | 44:60 | - | 1.0966 | n | n |
| 1» | IS | 13C-CL6-PCB-169 | 100.00 | 3.67e+07 | 1.24 y | 48:25 | - | 1.0222 | n | n |
| 1» | IS | 13C-CL7-PCB-188 | 100.00 | 5.57e+07 | 1.06 y | 37:55 | - | 2.5912 | n | n |
| 1» | IS | 13C-CL7-PCB-180 | 100.00 | 3.43e+07 | 1.05 y | 46:27 | - | 1.5976 | n | n |
| 1» | IS | 13C-CL7-PCB-170 | 100.00 | 2.75e+07 | 1.06 y | 47:46 | - | 1.2812 | n | n |
| 1» | IS | 13C-CL8-PCB-202 | 100.00 | 5.20e+07 | 0.91 y | 43:32 | - | 2.4213 | n | n |
| 1» | IS | 13C-CL8-PCB-205 | 100.00 | 2.88e+07 | 0.88 y | 53:45 | - | 1.3401 | n | n |
| 1» | IS | 13C-CL9-PCB-208 | 100.00 | 2.98e+07 | 0.78 y | 50:32 | - | 1.3865 | n | n |
| 1» | IS | 13C-CL9-PCB-206 | 100.00 | 2.18e+07 | 0.77 y | 55:34 | - | 1.0170 | n | n |
| 1» | RS/RT | 13C-CL2-PCB-9 | 100.00 | 8.46e+07 | 1.58 y | 16:01 | 8.46e+05 | - | n | n |
| 1» | RS/RT | 13C-CL4-PCB-52 | 100.00 | 5.54e+07 | 0.78 y | 25:03 | 5.54e+05 | - | n | n |
| 1» | RS/RT | 13C-CL5-PCB-101 | 100.00 | 5.30e+07 | 1.60 y | 32:11 | 5.30e+05 | - | n | n |
| 1» | RS/RT | 13C-CL6-PCB-138 | 100.00 | 3.59e+07 | 1.28 y | 40:38 | 3.59e+05 | - | n | n |
| 1» | RS/RT | 13C-CL8-PCB-194 | 100.00 | 2.15e+07 | 0.93 y | 53:15 | 2.15e+05 | - | n | n |
| 1» | C/Up | 13C-CL3-PCB-28 | 100.00 | 7.97e+07 | 1.04 y | 23:10 | - | 1.4367 | n | n |
| 1» | C/Up | 13C-CL5-PCB-111 | 100.00 | 5.82e+07 | 1.63 y | 35:00 | - | 1.0991 | n | n |
| 1» | C/UP | 13C-CL7-PCB-178 | 100.00 | 3.48e+07 | 1.04 y | 41:07 | - | 0.9703 | n | n |
| 1» | IS | 13C-CL4-PCB-54 | 100.00 | 7.08e+07 | 0.79 y | 20:19 | - | 1.2763 | n | n |
| 1» | Unk | CL7-PCB-189 | 50.00 | 1.54e+07 | 1.05 y | 51:05 | - | 1.0000 | n | n |
| 1» | IS | 13C-CL7-PCB-189 | 100.00 | 3.09e+07 | 1.05 y | 51:03 | - | 1.4369 | n | n |
| 1» | Unk | CL10-PCB-209 | 75.00 | 2.26e+07 | 1.16 y | 57:15 | - | 0.9963 | n | n |
| 1» | IS | 13C-CL10-PCB-209 | 100.00 | 3.02e+07 | 1.18 y | 57:14 | - | 1.4062 | n | n |
| 1» | LM | CL1-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL2-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL3-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL4-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL4-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL5-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL6-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL7-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL8-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL9-LOCK | 0.00 | - | | - | - | - | n | n |
| 1» | LM | CL10-LOCK | 0.00 | - | | - | - | - | n | n |

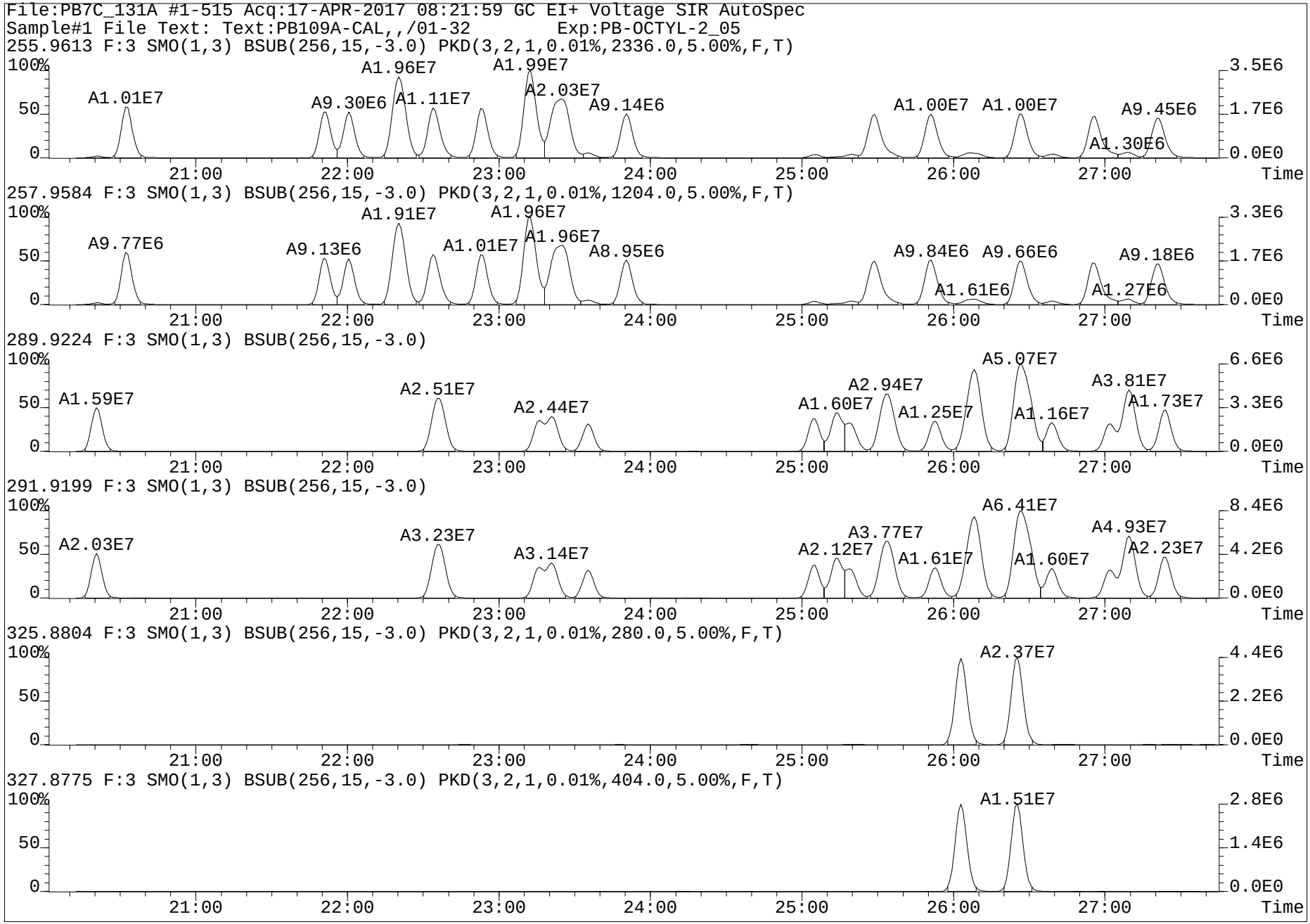

File:PB7C_131A #1-184 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
188.0393 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1236.0,5.00%,F,T)
A1.65E7
A1.67E7
190.0363 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,616.0,5.00%,F,T)
A5.34E6
A5.29E6
200.0795 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1592.0,5.00%,F,T)
A6.68E7
A6.37E7
202.0766 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,14668.0,5.00%,F,T)
A2.12E7
A2.05E7
218.9856
11:03
11:24
11:51
12:03
12:16
12:32
12:58
13:24
13:46
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time
5.0E6
2.5E6
0.0E0
1.6E6
8.0E5
2.0E7
1.0E7
6.4E6
3.2E6
1.8E6
8.9E5

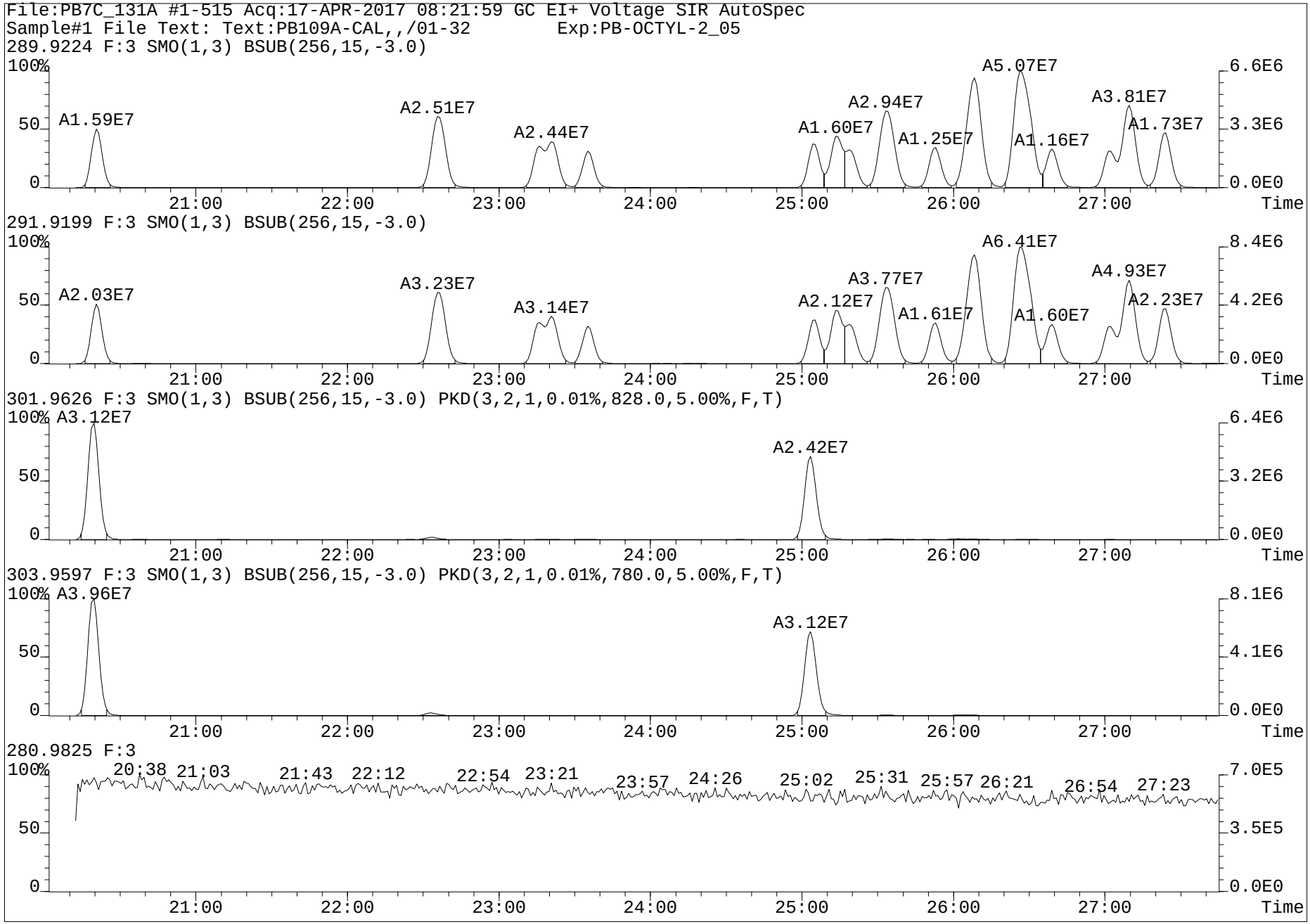

File:PB7C_131A #1-366 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,920.0,5.00%,F,T)
A1.20E7
A7.92E6
A1.25E7
A1.39E7
A1.08E7
A1.24E7
A2.38E7
A1.23E7
A1.33E7
223.9974 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1040.0,5.00%,F,T)
A7.88E6
A5.18E6
A8.18E6
A9.10E6
A7.04E6
A8.02E6
A1.54E7
A7.93E6
A8.70E6
234.0406 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1664.0,5.00%,F,T)
A3.26E7
A5.18E7
A5.32E7
A5.33E7
236.0376 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2088.0,5.00%,F,T)
A2.05E7
A3.27E7
A3.39E7
A3.39E7
242.9856 F:2
14:09
14:20
14:45
15:08
15:36
15:49
16:14
16:59
17:34
18:01
18:33
19:00
19:47
100%
50
0
14:00
15:00
16:00
17:00
18:00
19:00
20:00
Time
3.6E6
1.8E6
0.0E0
2.3E6
1.2E6
1.2E7
5.8E6
7.3E6
3.7E6
3.1E5
1.6E5

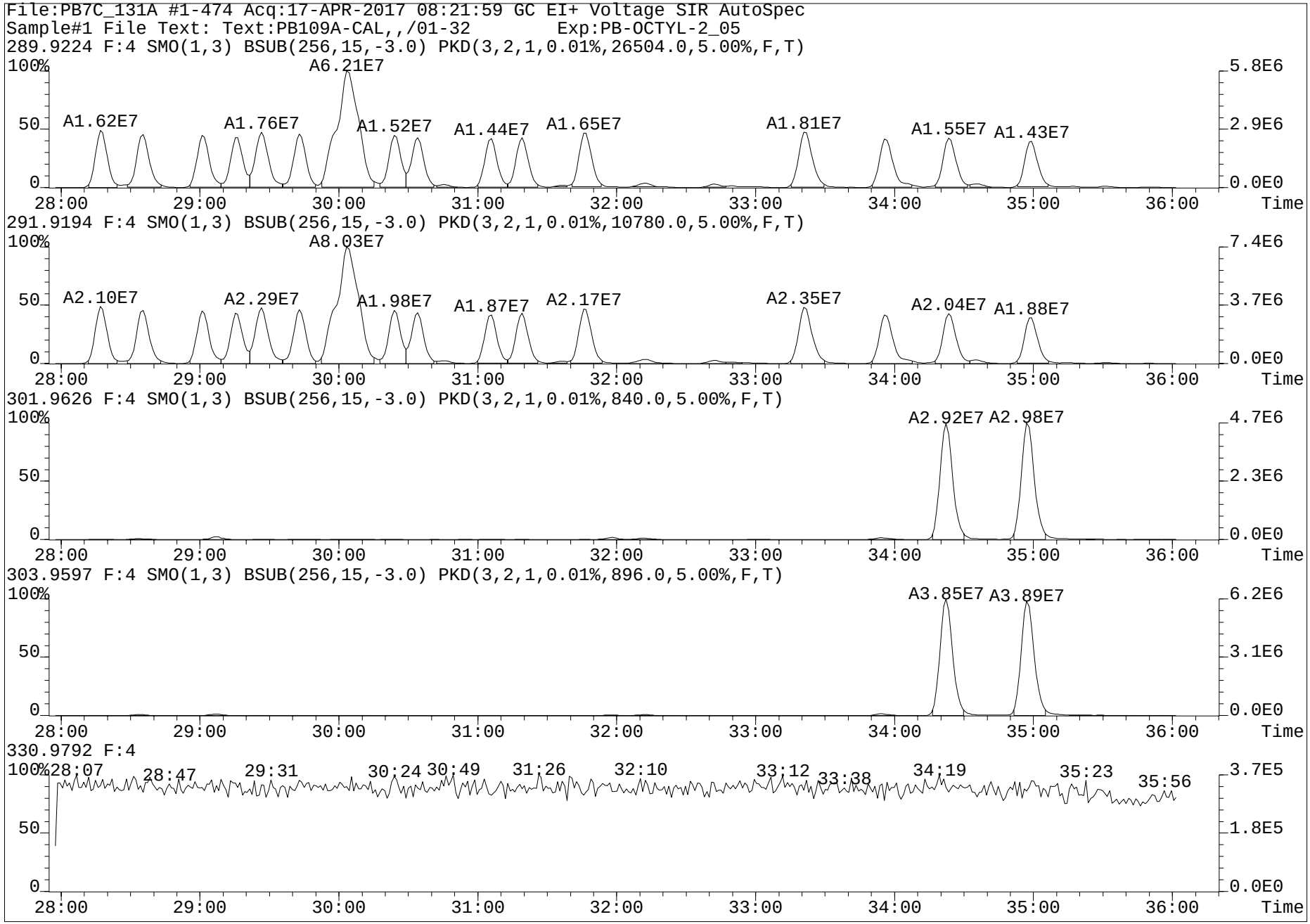

File:PB7C_131A #1-366 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,920.0,5.00%,F,T)
A7.92E6
A1.20E7
A1.25E7
A1.08E7
A1.39E7
A1.24E7
A1.23E7
A2.38E7
A1.33E7
223.9974 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1040.0,5.00%,F,T)
A5.18E6
A7.88E6
A8.18E6
A7.04E6
A9.10E6
A8.02E6
A7.93E6
A1.54E7
A8.70E6
255.9613 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,348.0,5.00%,F,T)
A7.05E6
A1.82E7
A7.88E6
A1.10E7
A6.56E6
257.9584 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,532.0,5.00%,F,T)
A6.63E6
A1.76E7
A7.49E6
A1.07E7
A6.23E6
Time

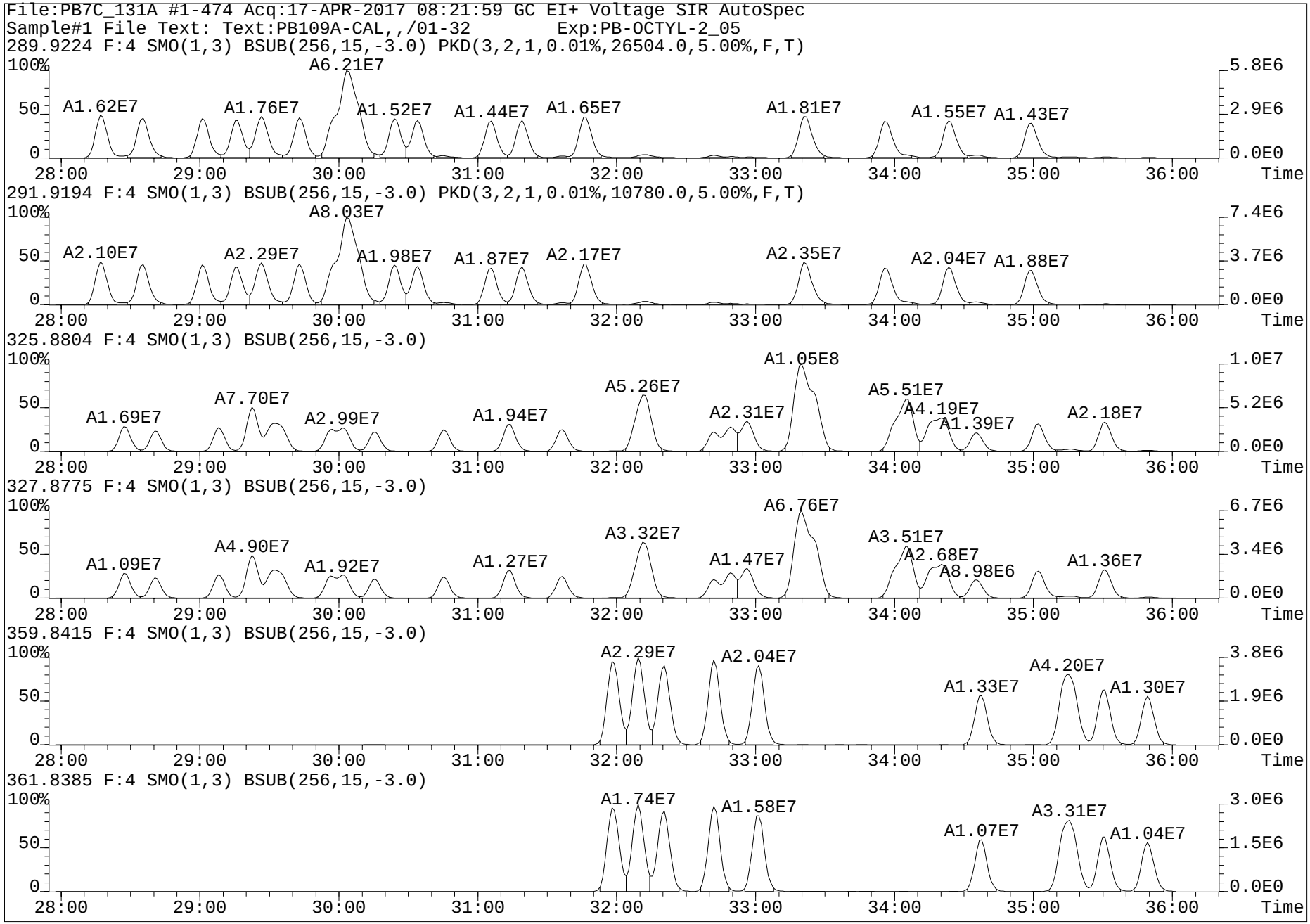

File:PB7C_131A #1-366 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,348.0,5.00%,F,T)
A7.05E6
A1.82E7
A7.88E6
A1.10E7
A6.56E6
257.9584 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,532.0,5.00%,F,T)
A6.63E6
A1.76E7
A7.49E6
A1.07E7
A6.23E6
268.0016 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8016.0,5.00%,F,T)
A2.75E7
269.9986 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3804.0,5.00%,F,T)
A2.66E7
242.9856 F:2
16:59
17:16
17:34
18:01
18:19
18:33
18:44
19:00
19:15
19:31
19:47
20:05
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time

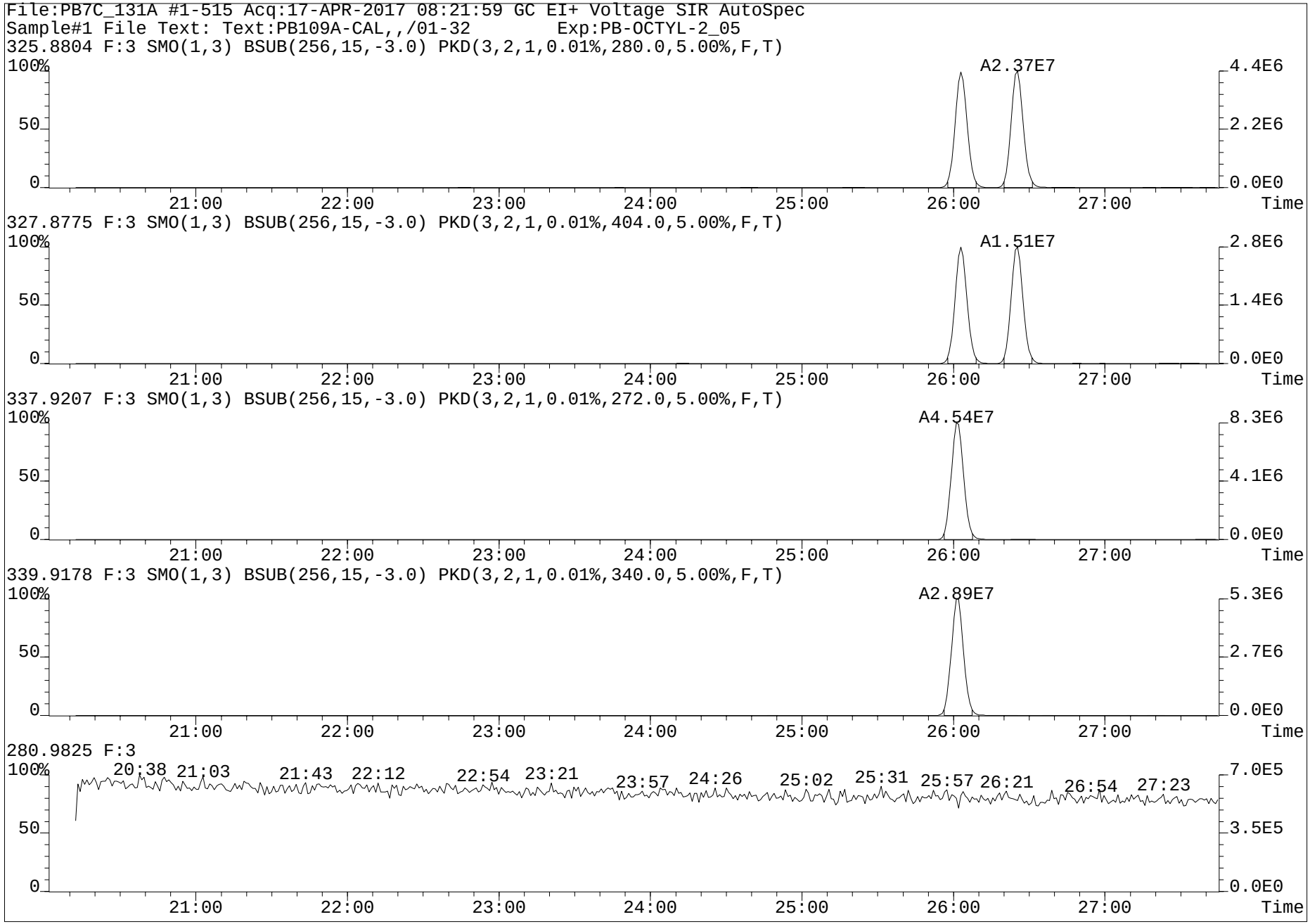

File:PB7C_131A #1-515 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2336.0,5.00%,F,T)
A1.01E7
A9.30E6
A1.96E7
A1.11E7
A1.99E7
A2.03E7
A9.14E6
A1.00E7
A1.00E7
A1.68E6
A9.45E6
A1.30E6
257.9584 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1204.0,5.00%,F,T)
A9.77E6
A9.13E6
A1.91E7
A1.01E7
A1.96E7
A1.96E7
A8.95E6
A9.84E6
A9.66E6
A1.61E6
A9.18E6
A1.27E6
268.0016 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,9612.0,5.00%,F,T)
A6.66E7
A4.05E7
A3.91E7
269.9986 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,4588.0,5.00%,F,T)
A6.32E7
A3.91E7
A3.71E7
280.9825 F:3
20:38 21:03 21:43 22:12 22:54 23:21 23:57 24:26 25:02 25:31 25:57 26:21 26:54 27:23
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
3.5E6 1.7E6 0.0E0
3.3E6 1.7E6 0.0E0
1.3E7 6.4E6 0.0E0
1.2E7 6.1E6 0.0E0
7.0E5 3.5E5 0.0E0

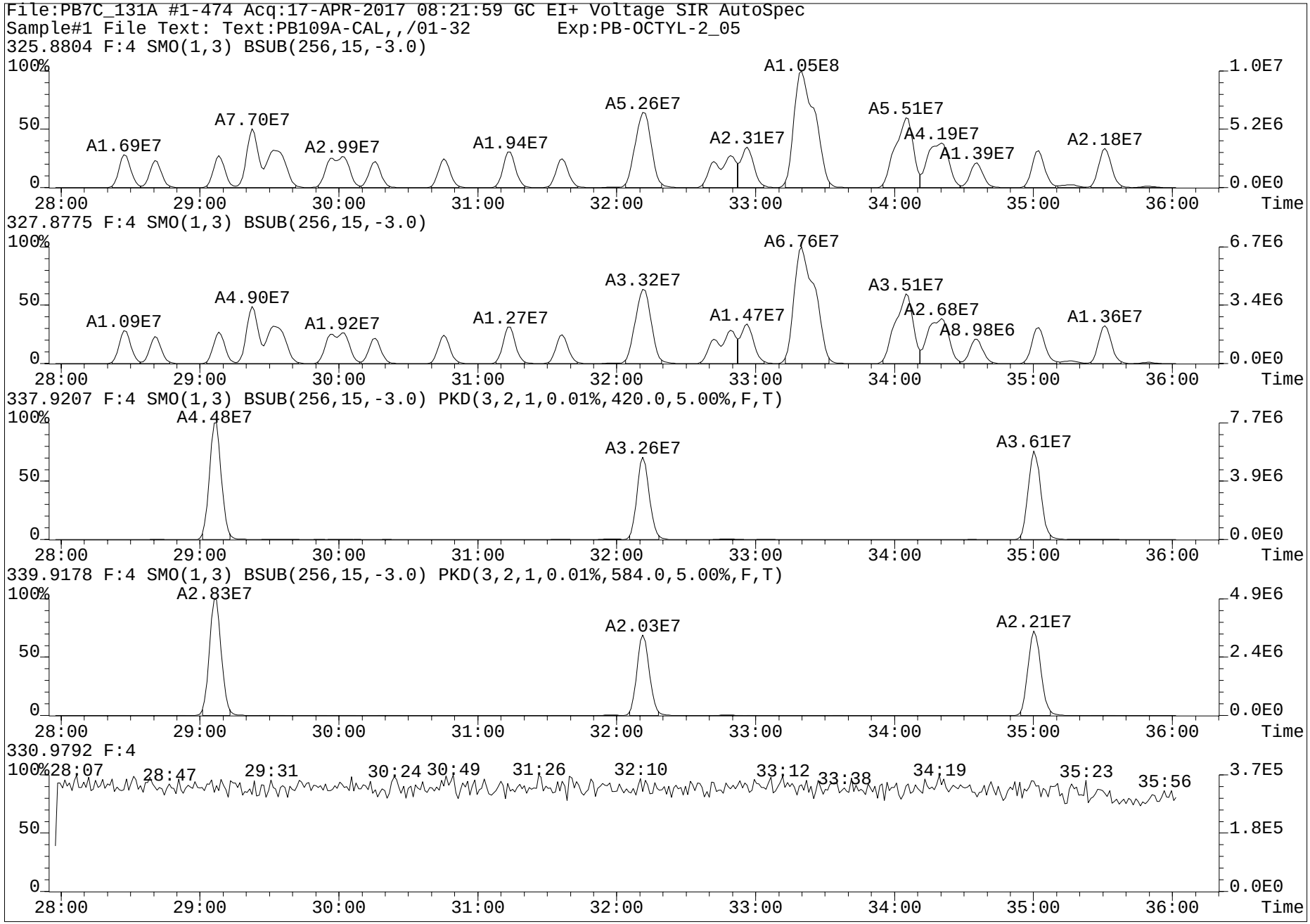

File:PB7C_131A #1-515 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2336.0,5.00%,F,T)
A1.01E7
A9.30E6
A1.96E7
A1.11E7
A1.99E7
A2.03E7
A9.14E6
A1.00E7
A1.00E7
A9.45E6
A1.30E6
257.9584 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1204.0,5.00%,F,T)
A9.77E6
A9.13E6
A1.91E7
A1.01E7
A1.96E7
A1.96E7
A8.95E6
A9.84E6
A9.66E6
A1.61E6
A9.18E6
A1.27E6
289.9224 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.59E7
A2.51E7
A2.44E7
A1.60E7
A2.94E7
A1.25E7
A5.07E7
A1.16E7
A3.81E7
A1.73E7
291.9199 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.03E7
A3.23E7
A3.14E7
A2.12E7
A3.77E7
A1.61E7
A6.41E7
A1.60E7
A4.93E7
A2.23E7
325.8804 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,280.0,5.00%,F,T)
A2.37E7
327.8775 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,404.0,5.00%,F,T)
A1.51E7
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time
3.5E6
1.7E6
0.0E0
3.3E6
6.6E6
8.4E6
4.4E6
2.2E6
2.8E6
1.4E6

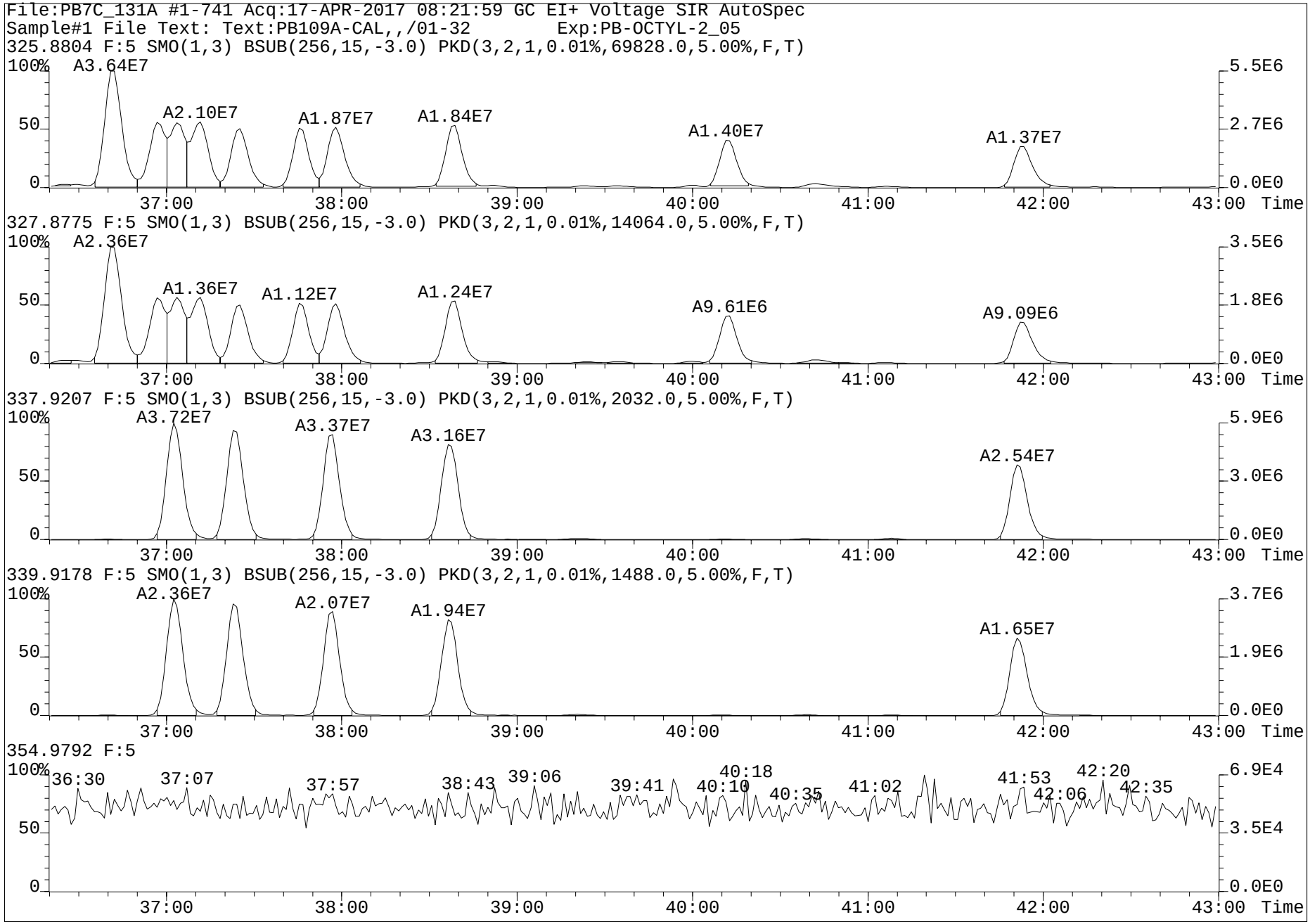

File:PB7C_131A #1-515 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:3 SMO(1,3) BSUB(256,15,-3.0)
A1.59E7
A2.51E7
A2.44E7
A1.60E7
A2.94E7
A1.25E7
A5.07E7
A1.16E7
A3.81E7
A1.73E7
6.6E6
3.3E6
0.0E0
291.9199 F:3 SMO(1,3) BSUB(256,15,-3.0)
A2.03E7
A3.23E7
A3.14E7
A2.12E7
A3.77E7
A1.61E7
A6.41E7
A1.60E7
A4.93E7
A2.23E7
8.4E6
4.2E6
0.0E0
301.9626 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,828.0,5.00%,F,T)
A3.12E7
A2.42E7
6.4E6
3.2E6
0.0E0
303.9597 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,780.0,5.00%,F,T)
A3.96E7
A3.12E7
8.1E6
4.1E6
0.0E0
280.9825 F:3
20:38 21:03 21:43 22:12 22:54 23:21 23:57 24:26 25:02 25:31 25:57 26:21 26:54 27:23
7.0E5
3.5E5
0.0E0
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

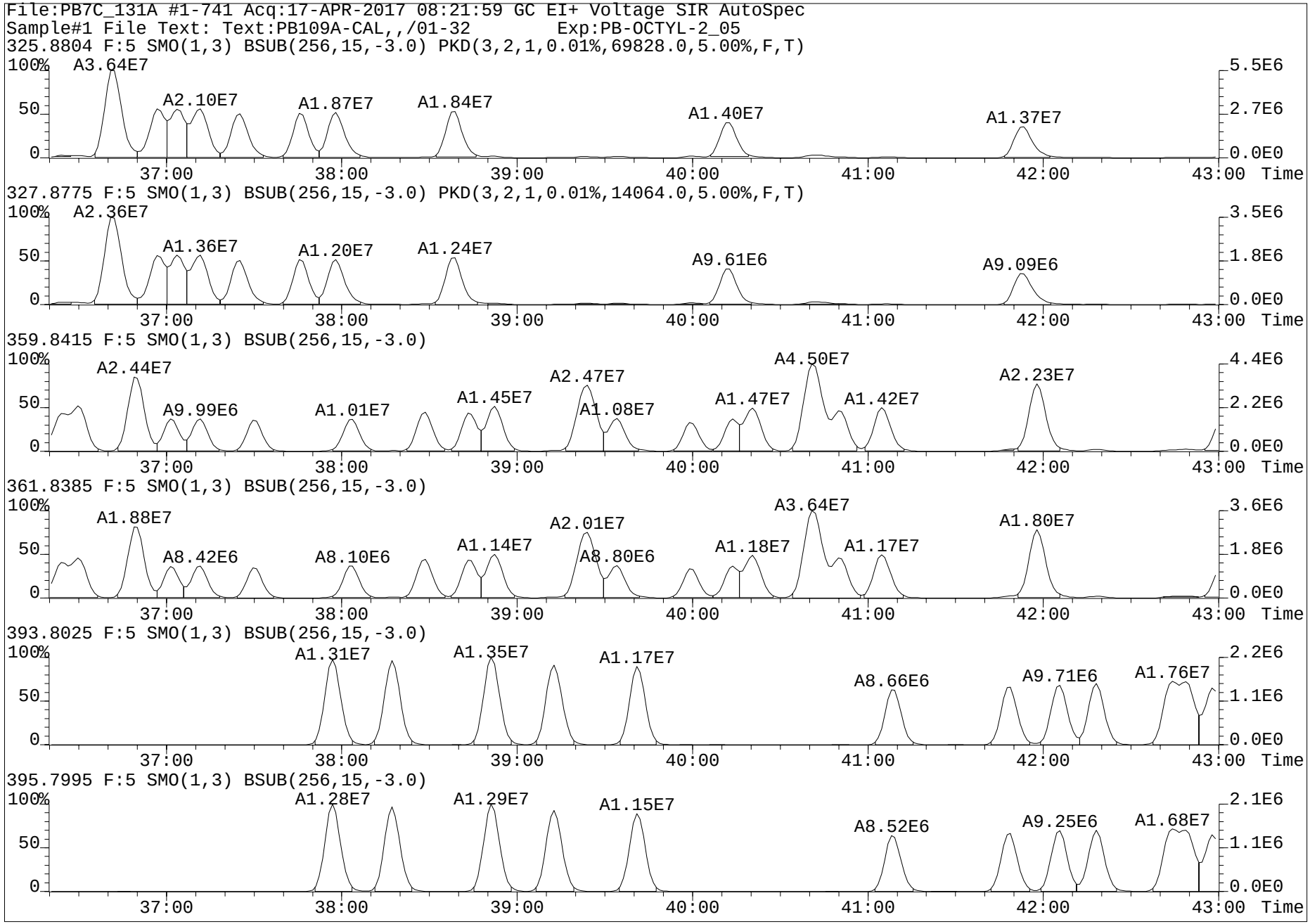

File:PB7C_131A #1-474 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,26504.0,5.00%,F,T)
A6.21E7
A1.62E7
A1.76E7
A1.52E7
A1.44E7
A1.65E7
A1.81E7
A1.55E7
A1.43E7
5.8E6
2.9E6
0.0E0
291.9194 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10780.0,5.00%,F,T)
A8.03E7
A2.10E7
A2.29E7
A1.98E7
A1.87E7
A2.17E7
A2.35E7
A2.04E7
A1.88E7
7.4E6
3.7E6
0.0E0
301.9626 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,840.0,5.00%,F,T)
A2.92E7
A2.98E7
4.7E6
2.3E6
0.0E0
303.9597 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,896.0,5.00%,F,T)
A3.85E7
A3.89E7
6.2E6
3.1E6
0.0E0
330.9792 F:4
28:07
28:47
29:31
30:24
30:49
31:26
32:10
33:12
33:38
34:19
35:23
35:56
3.7E5
1.8E5
0.0E0
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time

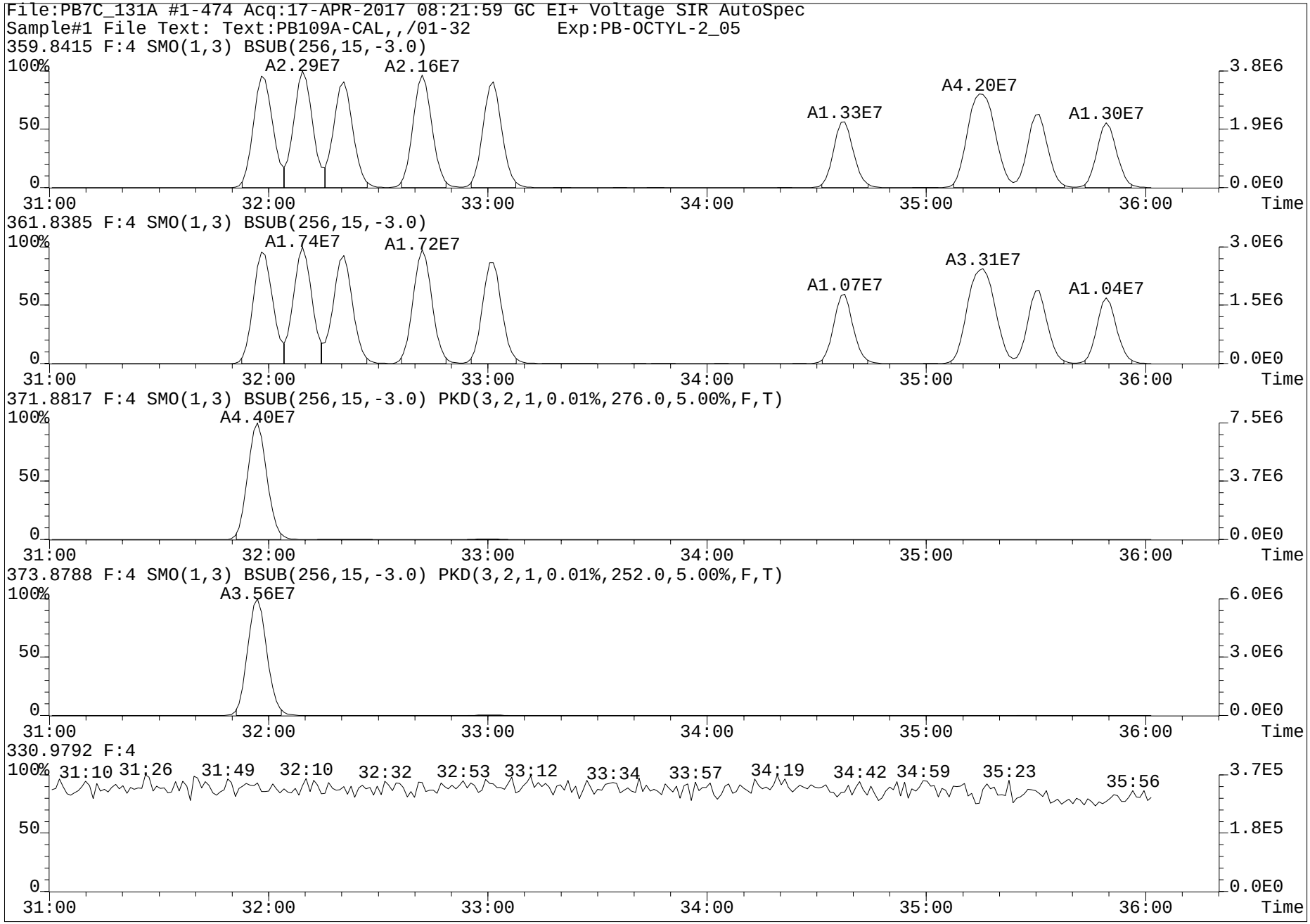

File:PB7C_131A #1-474 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,26504.0,5.00%,F,T)
A6.21E7
A1.62E7
A1.76E7
A1.52E7
A1.44E7
A1.65E7
A1.81E7
A1.55E7
A1.43E7
291.9194 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,10780.0,5.00%,F,T)
A8.03E7
A2.10E7
A2.29E7
A1.98E7
A1.87E7
A2.17E7
A2.35E7
A2.04E7
A1.88E7
325.8804 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.05E8
A5.26E7
A7.70E7
A1.69E7
A2.99E7
A1.94E7
A2.31E7
A5.51E7
A4.19E7
A1.39E7
A2.18E7
327.8775 F:4 SMO(1,3) BSUB(256,15,-3.0)
A6.76E7
A3.32E7
A4.90E7
A1.09E7
A1.92E7
A1.27E7
A1.47E7
A3.51E7
A2.68E7
A8.98E6
A1.36E7
359.8415 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.29E7
A2.04E7
A4.20E7
A1.33E7
A1.30E7
361.8385 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.74E7
A1.58E7
A3.31E7
A1.07E7
A1.04E7
100%
50
0
28:00
29:00
30:00
31:00
32:00
33:00
34:00
35:00
36:00
Time
5.8E6
2.9E6
0.0E0
7.4E6
3.7E6
1.0E7
5.2E6
6.7E6
3.4E6
3.8E6
1.9E6
3.0E6
1.5E6

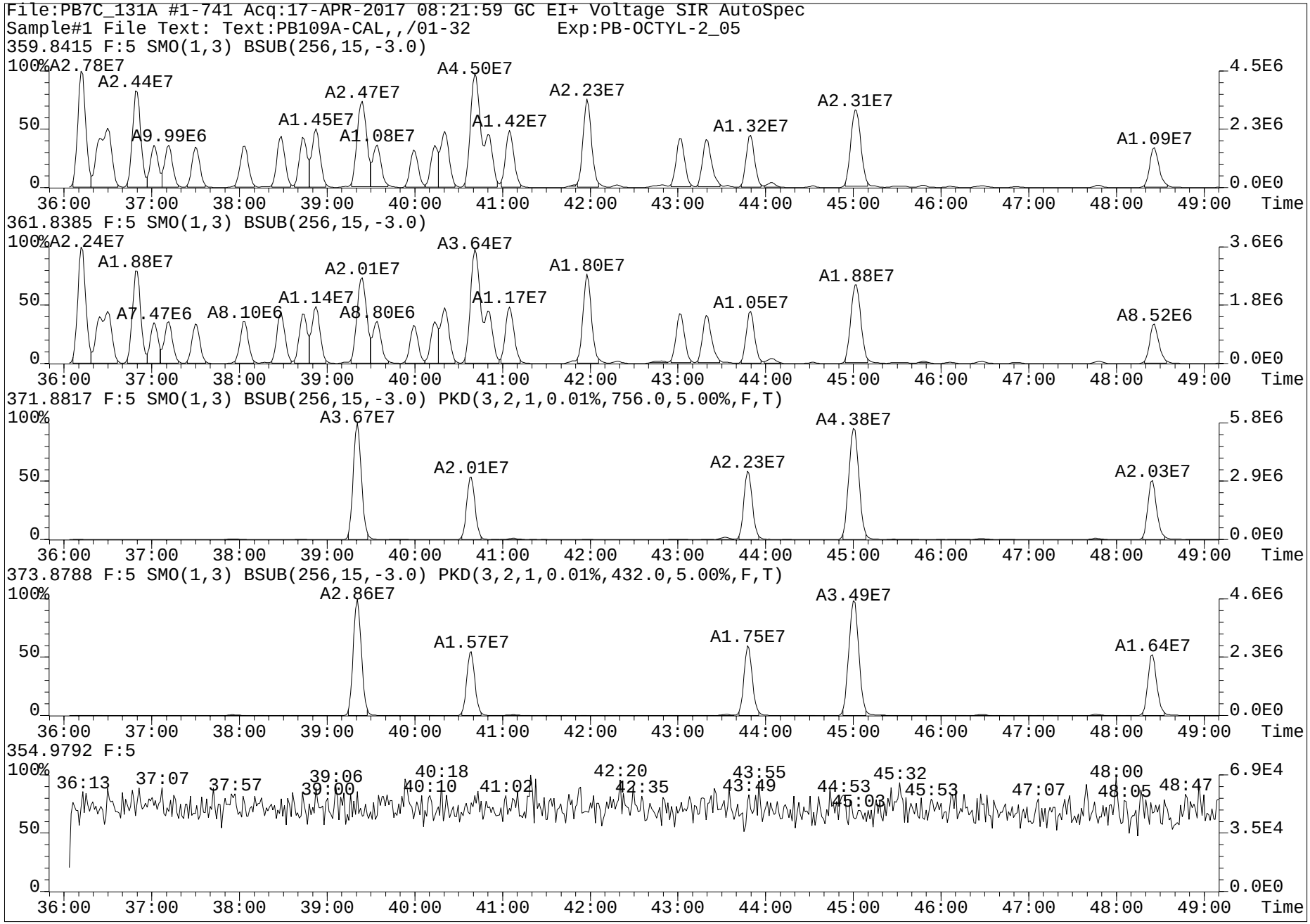

File:PB7C_131A #1-515 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,280.0,5.00%,F,T)
A2.37E7
327.8775 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,404.0,5.00%,F,T)
A1.51E7
337.9207 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,272.0,5.00%,F,T)
A4.54E7
339.9178 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,340.0,5.00%,F,T)
A2.89E7
280.9825 F:3
20:38 21:03 21:43 22:12 22:54 23:21 23:57 24:26 25:02 25:31 25:57 26:21 26:54 27:23
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
4.4E6 2.2E6 0.0E0
2.8E6 1.4E6 0.0E0
8.3E6 4.1E6 0.0E0
5.3E6 2.7E6 0.0E0
7.0E5 3.5E5 0.0E0

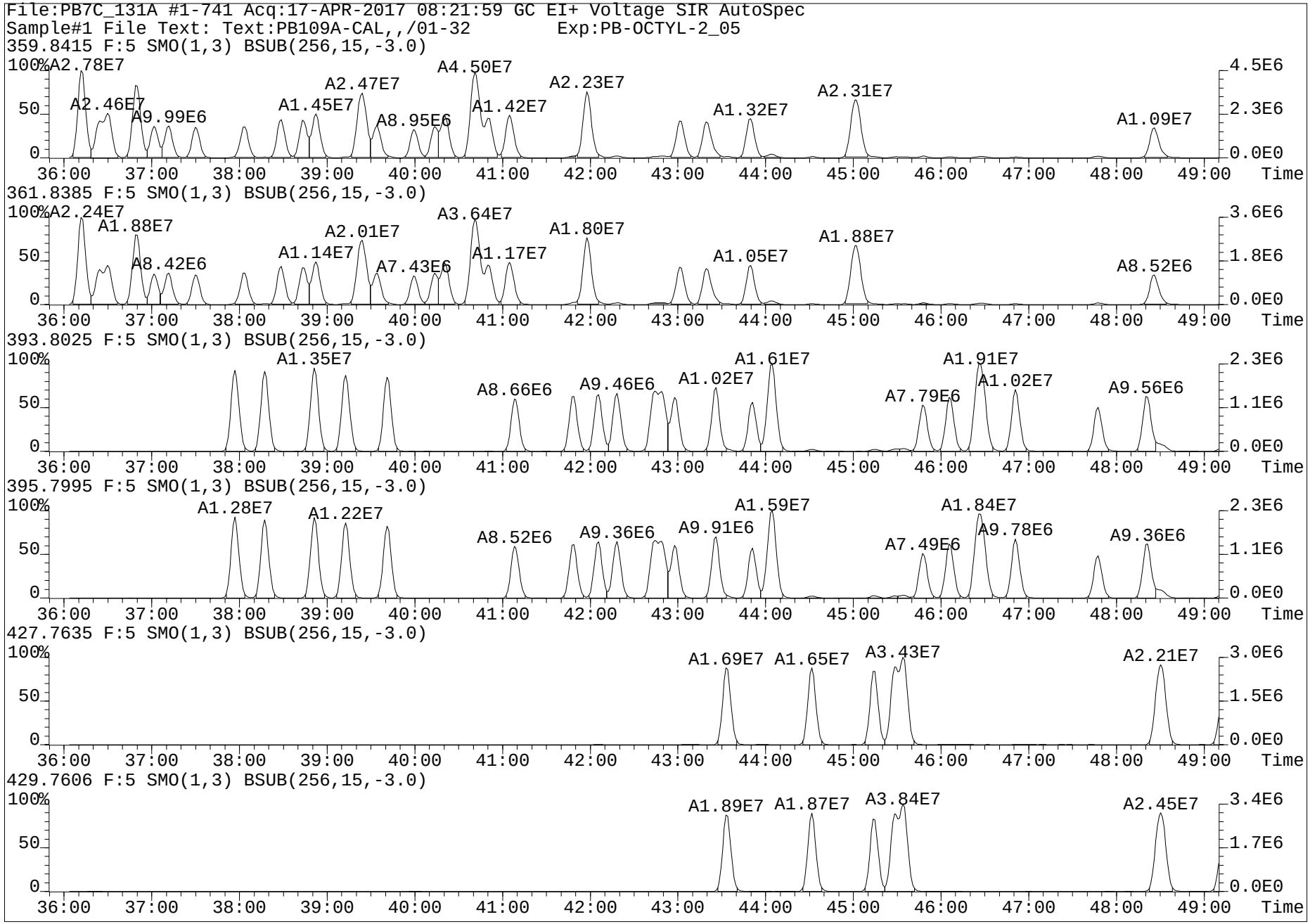

File:PB7C_131A #1-474 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.69E7
A7.70E7
A2.99E7
A1.94E7
A5.26E7
A2.31E7
A1.05E8
A5.51E7
A4.19E7
A1.39E7
A2.18E7
327.8775 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.09E7
A4.90E7
A1.92E7
A1.27E7
A3.32E7
A1.47E7
A6.76E7
A3.51E7
A2.68E7
A8.98E6
A1.36E7
337.9207 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,420.0,5.00%,F,T)
A4.48E7
A3.26E7
A3.61E7
339.9178 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,584.0,5.00%,F,T)
A2.83E7
A2.03E7
A2.21E7
330.9792 F:4
28:07
28:47
29:31
30:24
30:49
31:26
32:10
33:12
33:38
34:19
35:23
35:56
Time

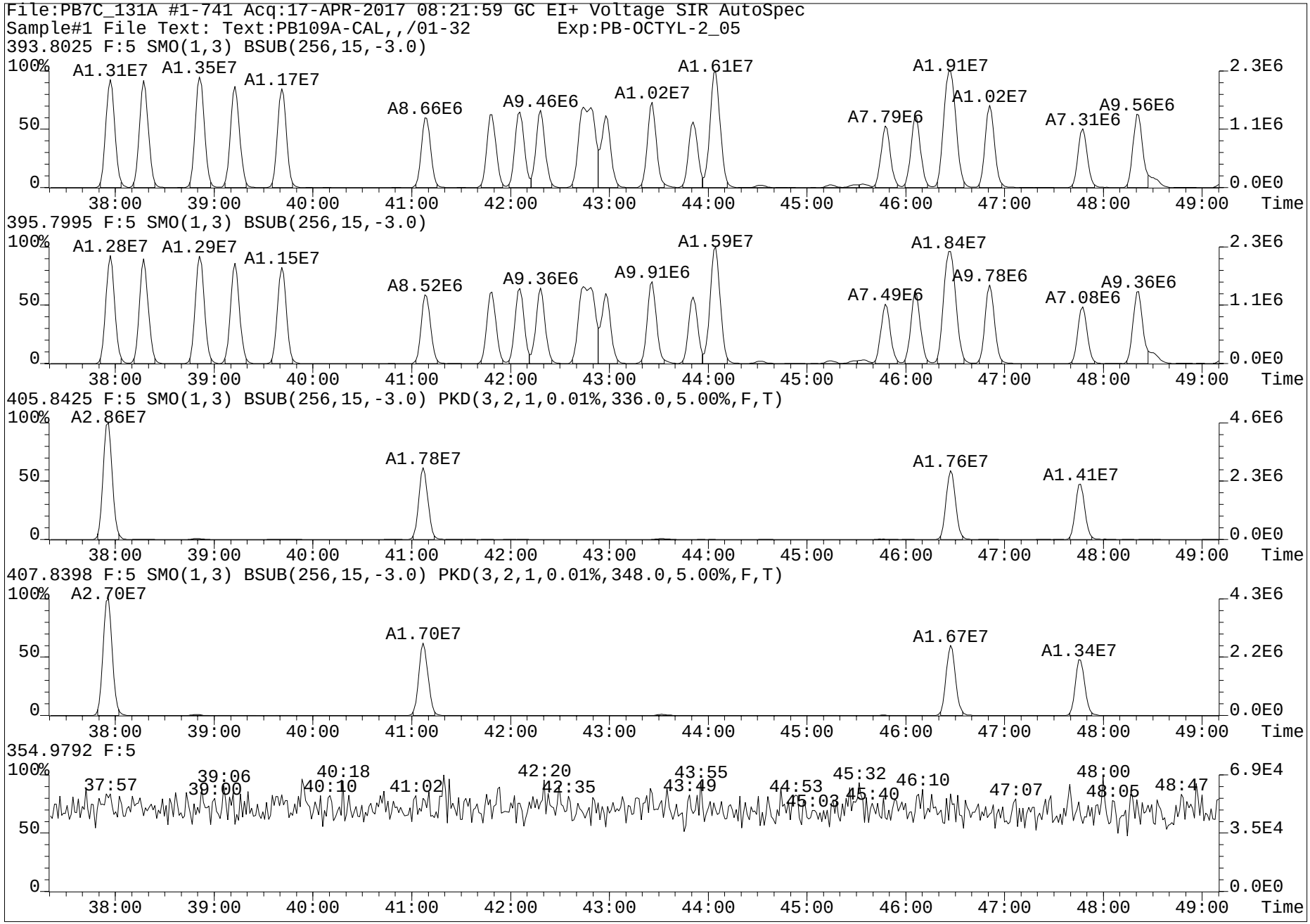

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,69828.0,5.00%,F,T)
A3.64E7
A2.10E7
A1.87E7
A1.84E7
A1.40E7
A1.37E7
327.8775 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,14064.0,5.00%,F,T)
A2.36E7
A1.36E7
A1.12E7
A1.24E7
A9.61E6
A9.09E6
337.9207 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2032.0,5.00%,F,T)
A3.72E7
A3.37E7
A3.16E7
A2.54E7
339.9178 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1488.0,5.00%,F,T)
A2.36E7
A2.07E7
A1.94E7
A1.65E7
354.9792 F:5
36:30
37:07
37:57
38:43
39:06
39:41
40:10
40:18
40:35
41:02
41:53
42:06
42:20
42:35
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
5.5E6
2.7E6
0.0E0
3.5E6
1.8E6
0.0E0
5.9E6
3.0E6
0.0E0
3.7E6
1.9E6
0.0E0
6.9E4
3.5E4
0.0E0

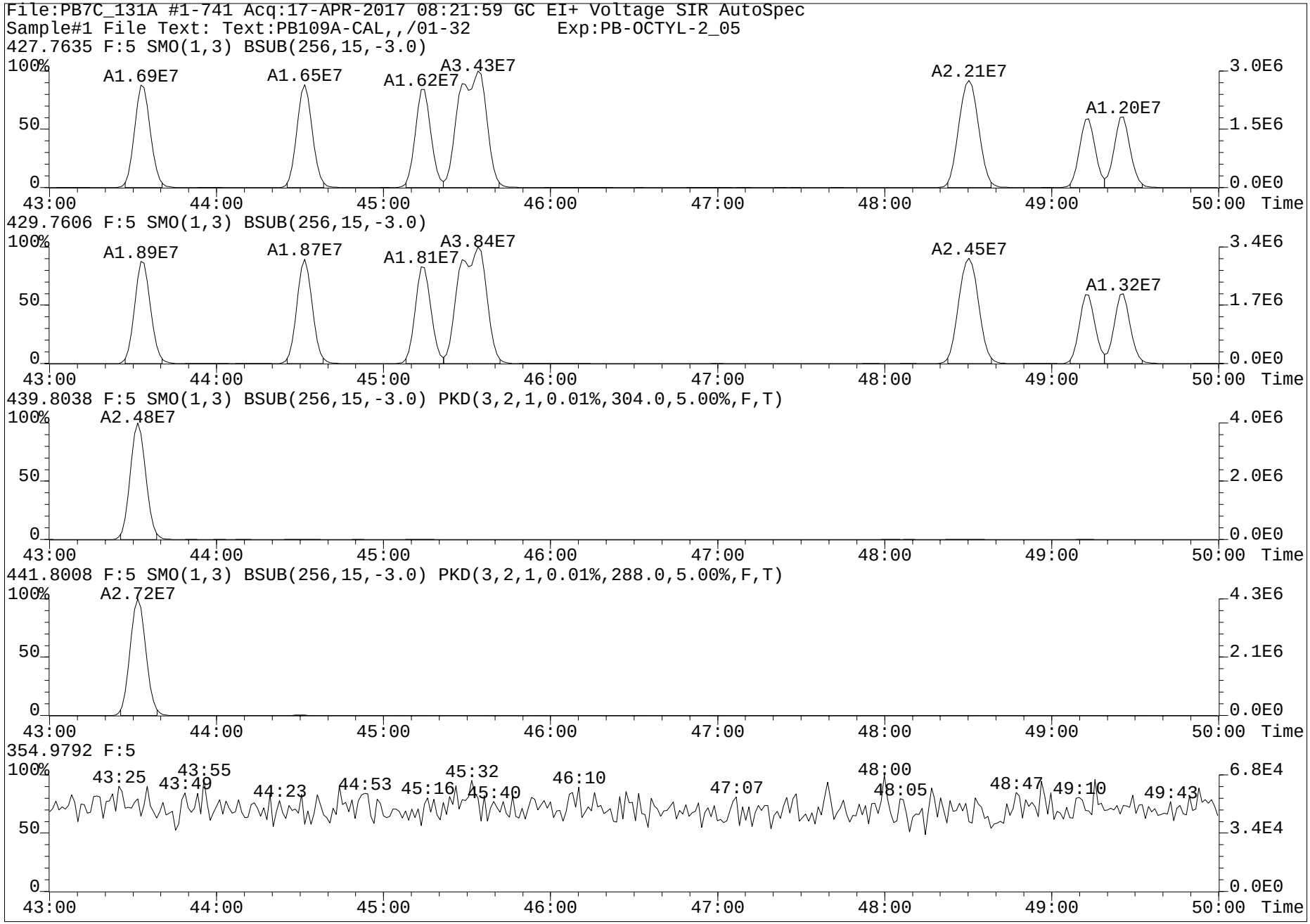

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,69828.0,5.00%,F,T)
A3.64E7
A2.10E7
A1.87E7
A1.84E7
A1.40E7
A1.37E7
327.8775 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,14064.0,5.00%,F,T)
A2.36E7
A1.36E7
A1.20E7
A1.24E7
A9.61E6
A9.09E6
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.44E7
A9.99E6
A1.01E7
A1.45E7
A2.47E7
A1.08E7
A1.47E7
A4.50E7
A1.42E7
A2.23E7
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.88E7
A8.42E6
A8.10E6
A1.14E7
A2.01E7
A8.80E6
A1.18E7
A3.64E7
A1.17E7
A1.80E7
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.31E7
A1.35E7
A1.17E7
A8.66E6
A9.71E6
A1.76E7
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.28E7
A1.29E7
A1.15E7
A8.52E6
A9.25E6
A1.68E7
100%
50
0
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
5.5E6
2.7E6
0.0E0
3.5E6
1.8E6
4.4E6
2.2E6
3.6E6
2.2E6
1.1E6
2.1E6

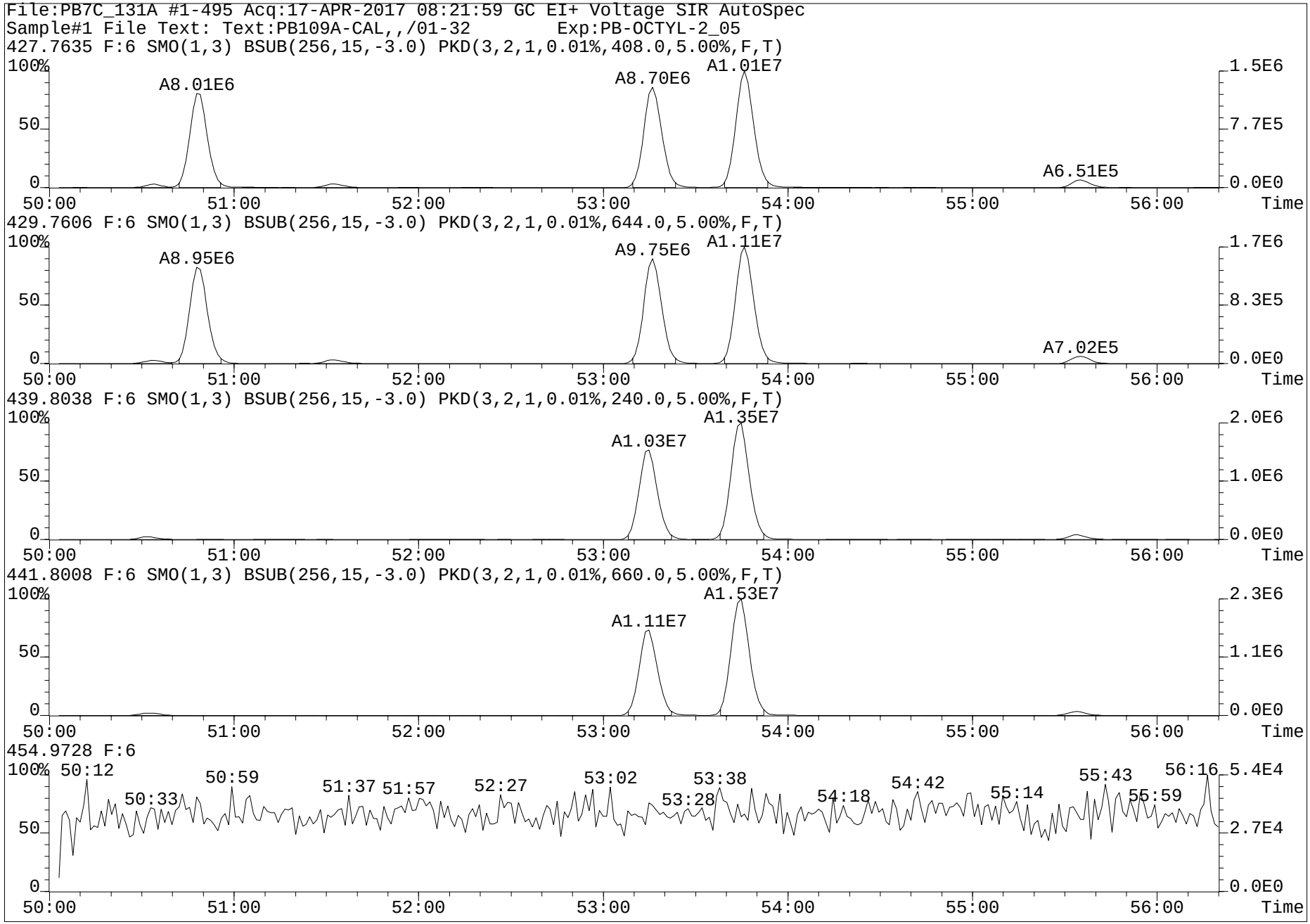

File:PB7C_131A #1-474 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:4 SMO(1,3) BSUB(256,15,-3.0)
A2.29E7
A2.16E7
A1.33E7
A4.20E7
A1.30E7
361.8385 F:4 SMO(1,3) BSUB(256,15,-3.0)
A1.74E7
A1.72E7
A1.07E7
A3.31E7
A1.04E7
371.8817 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,276.0,5.00%,F,T)
A4.40E7
373.8788 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A3.56E7
330.9792 F:4
31:10 31:26 31:49 32:10 32:32 32:53 33:12 33:34 33:57 34:19 34:42 34:59 35:23 35:56
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.8E6
1.9E6
0.0E0
3.0E6
1.5E6
7.5E6
3.7E6
6.0E6
3.0E6
3.7E5
1.8E5

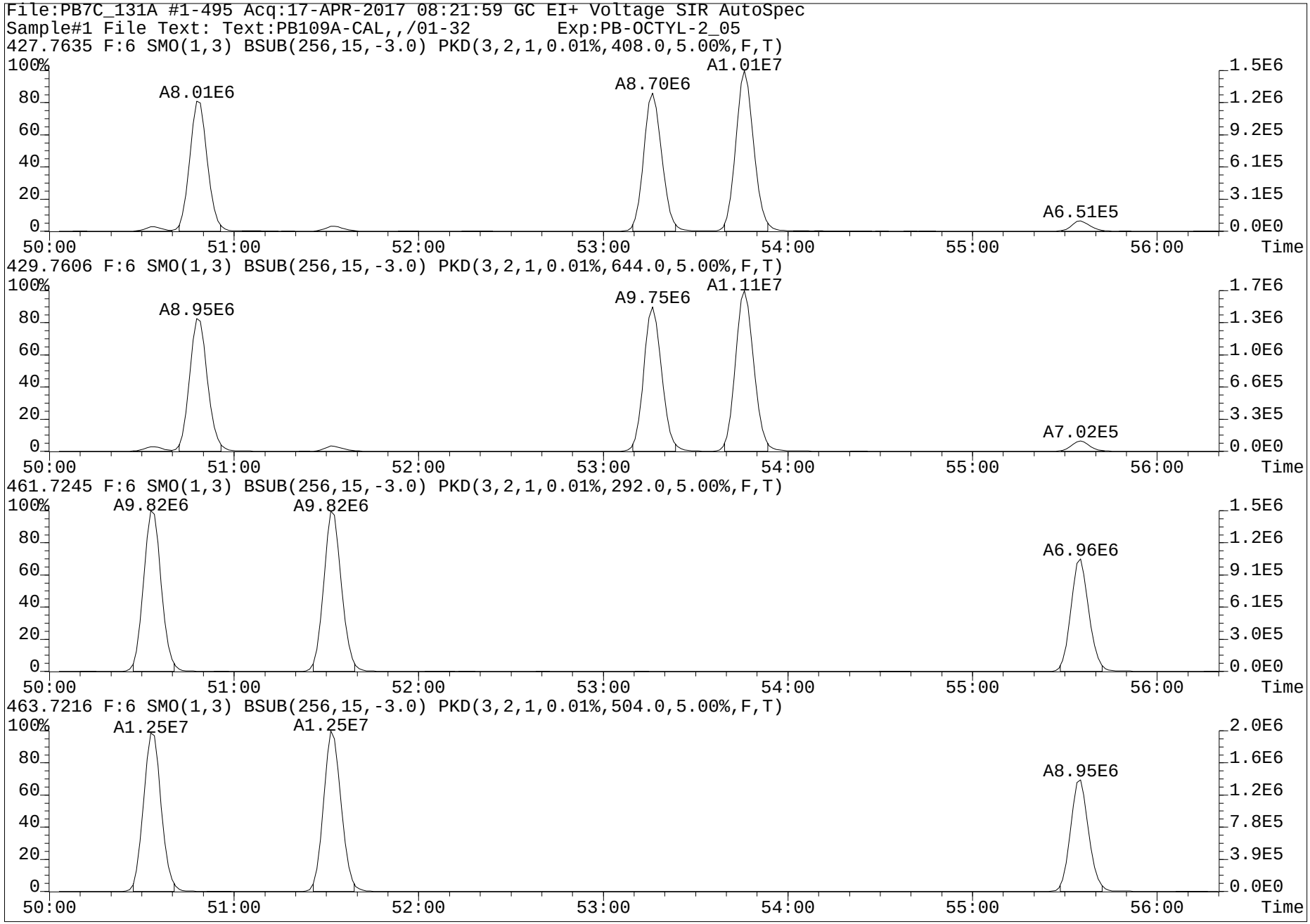

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.78E7
A2.44E7
A9.99E6
A2.47E7
A1.45E7
A1.08E7
A4.50E7
A1.42E7
A2.23E7
A1.32E7
A2.31E7
A1.09E7
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.24E7
A1.88E7
A7.47E6
A8.10E6
A2.01E7
A1.14E7
A8.80E6
A3.64E7
A1.17E7
A1.80E7
A1.05E7
A1.88E7
A8.52E6
371.8817 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,756.0,5.00%,F,T)
A3.67E7
A2.01E7
A2.23E7
A4.38E7
A2.03E7
373.8788 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,432.0,5.00%,F,T)
A2.86E7
A1.57E7
A1.75E7
A3.49E7
A1.64E7
354.9792 F:5
36:13
37:07
37:57
39:00
39:06
40:10
40:18
41:02
42:35
42:20
43:49
43:55
44:53
45:03
45:32
45:53
47:07
48:00
48:05
48:47
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time
4.5E6
2.3E6
0.0E0
3.6E6
1.8E6
5.8E6
2.9E6
4.6E6
2.3E6
6.9E4
3.5E4

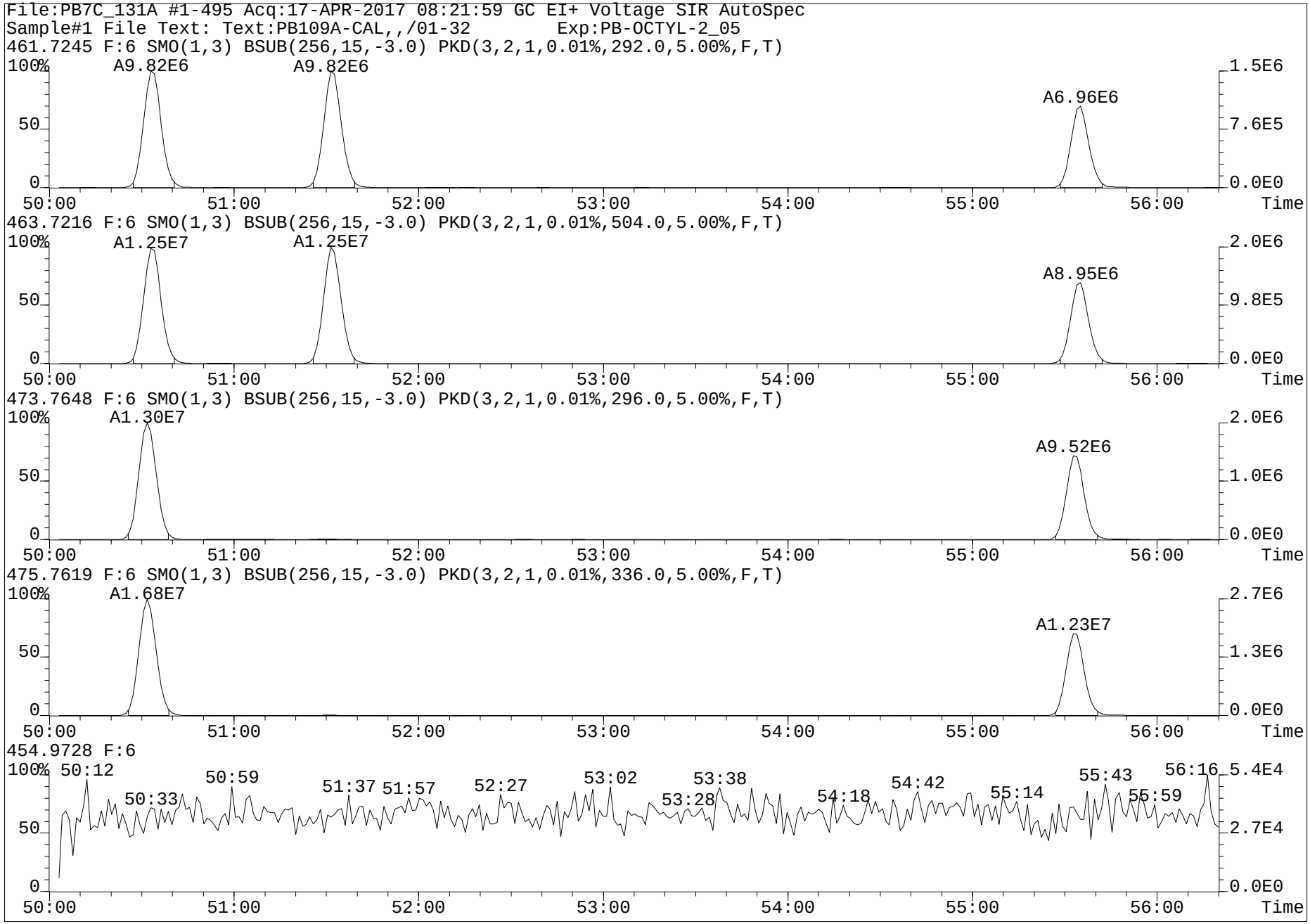

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.78E7
A2.46E7
A9.99E6
A2.47E7
A1.45E7
A8.95E6
A4.50E7
A1.42E7
A2.23E7
A1.32E7
A2.31E7
A1.09E7
361.8385 F:5 SMO(1,3) BSUB(256,15,-3.0)
A2.24E7
A1.88E7
A8.42E6
A2.01E7
A1.14E7
A7.43E6
A3.64E7
A1.17E7
A1.80E7
A1.05E7
A1.88E7
A8.52E6
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.35E7
A8.66E6
A9.46E6
A1.02E7
A1.61E7
A7.79E6
A1.91E7
A1.02E7
A9.56E6
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.28E7
A1.22E7
A8.52E6
A9.36E6
A9.91E6
A1.59E7
A7.49E6
A1.84E7
A9.78E6
A9.36E6
427.7635 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.69E7
A1.65E7
A3.43E7
A2.21E7
429.7606 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.89E7
A1.87E7
A3.84E7
A2.45E7
100%
50
0
36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
4.5E6
2.3E6
0.0E0
3.6E6
1.8E6
2.3E6
1.1E6
3.0E6
1.5E6
3.4E6
1.7E6

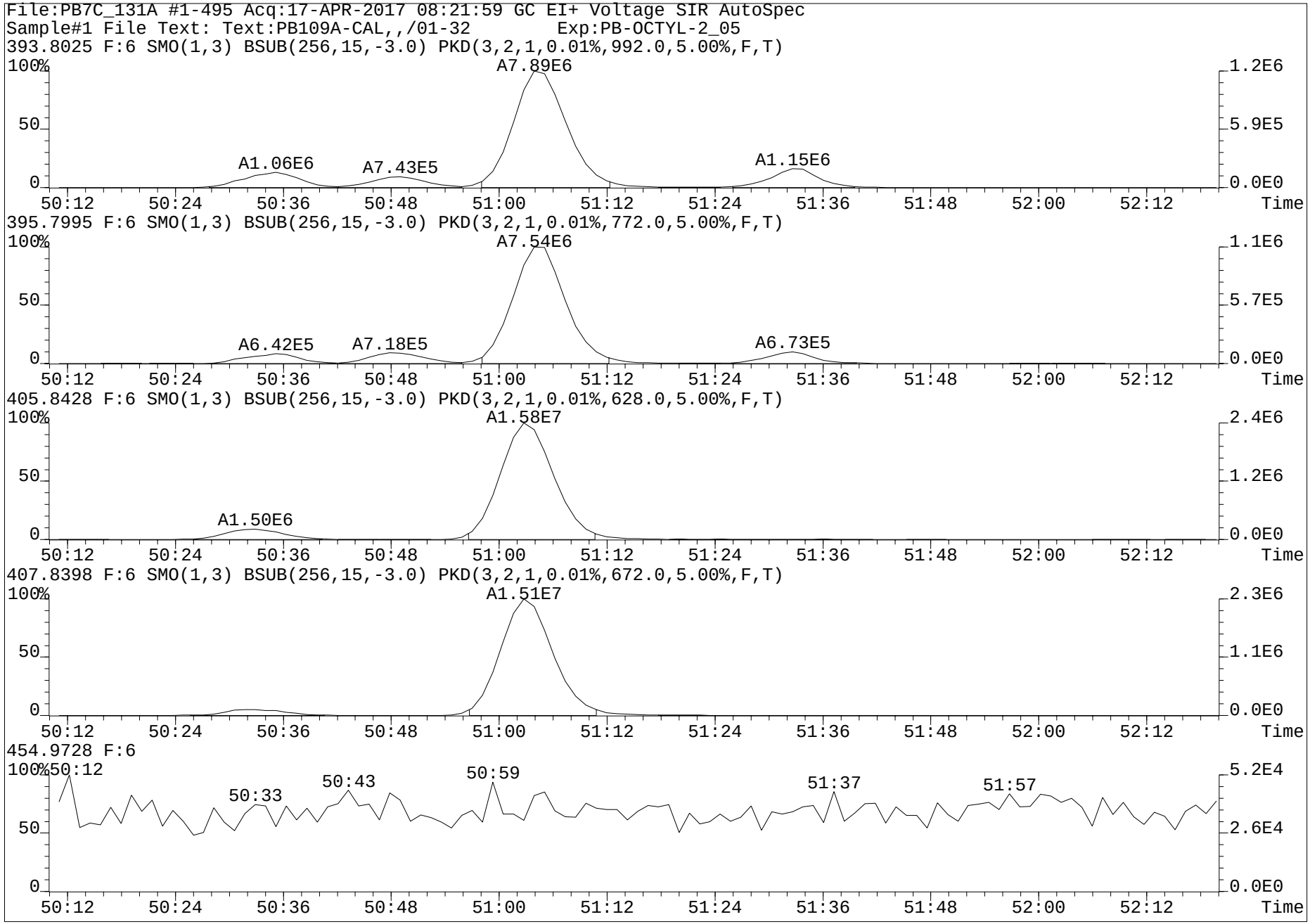

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.31E7 A1.35E7 A1.17E7 A8.66E6 A9.46E6 A1.02E7 A1.61E7 A7.79E6 A1.91E7 A1.02E7 A7.31E6 A9.56E6
395.7995 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.28E7 A1.29E7 A1.15E7 A8.52E6 A9.36E6 A9.91E6 A1.59E7 A7.49E6 A1.84E7 A9.78E6 A7.08E6 A9.36E6
405.8425 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,336.0,5.00%,F,T)
A2.86E7 A1.78E7 A1.76E7 A1.41E7
407.8398 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,348.0,5.00%,F,T)
A2.70E7 A1.70E7 A1.67E7 A1.34E7
354.9792 F:5
37:57 39:06 39:00 40:18 40:10 41:02 42:20 42:35 43:55 43:49 44:53 45:32 45:03 45:40 46:10 47:07 48:00 48:05 48:47
100%
50
0
38:00 39:00 40:00 41:00 42:00 43:00 44:00 45:00 46:00 47:00 48:00 49:00 Time
2.3E6 1.1E6 0.0E0
4.6E6 2.3E6 0.0E0
4.3E6 2.2E6 0.0E0
6.9E4 3.5E4 0.0E0

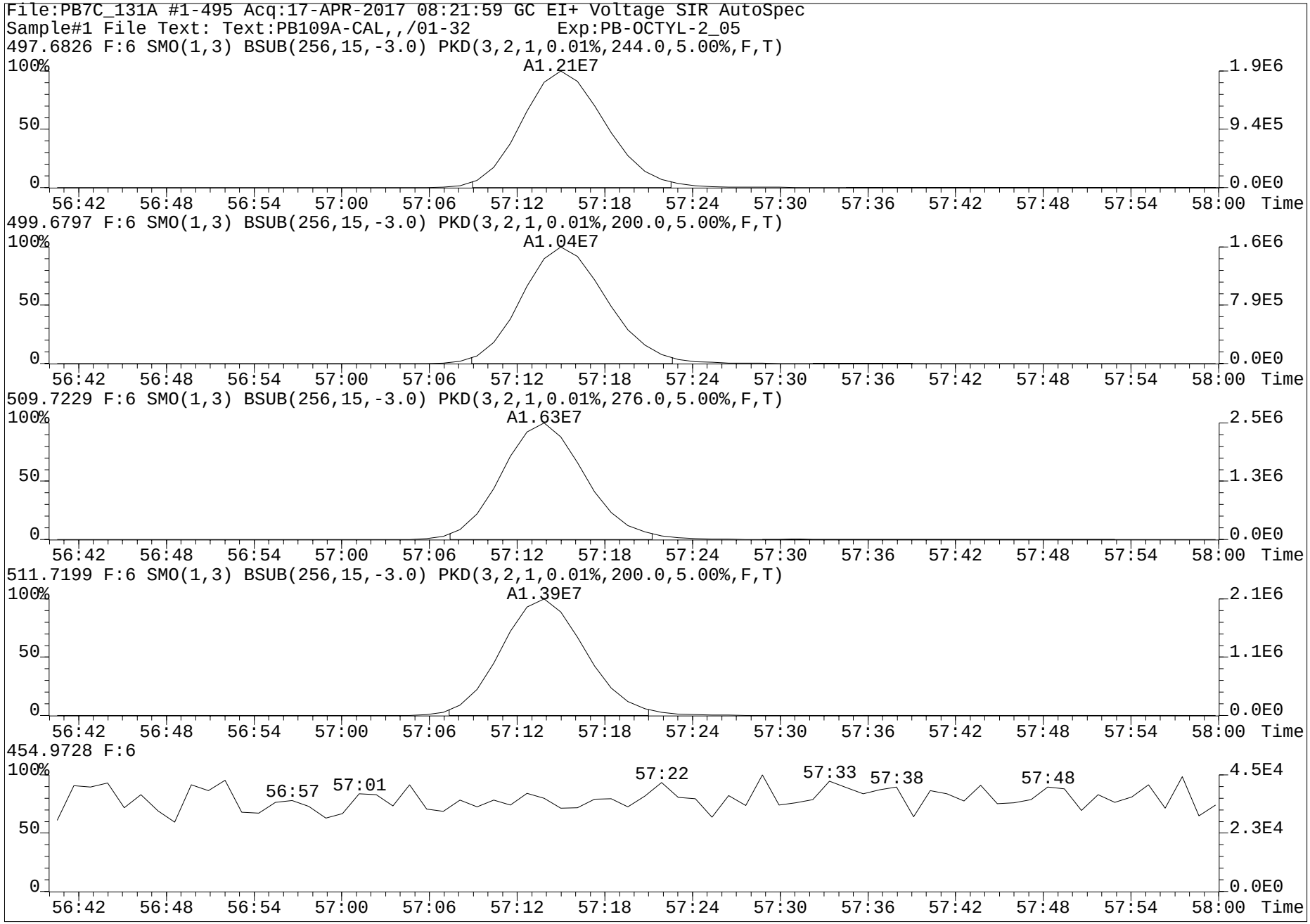

File:PB7C_131A #1-741 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.69E7
A1.65E7
A1.62E7
A3.43E7
A2.21E7
A1.20E7
429.7606 F:5 SMO(1,3) BSUB(256,15,-3.0)
A1.89E7
A1.87E7
A1.81E7
A3.84E7
A2.45E7
A1.32E7
439.8038 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,304.0,5.00%,F,T)
A2.48E7
441.8008 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,288.0,5.00%,F,T)
A2.72E7
354.9792 F:5
43:25
43:49
43:55
44:23
44:53
45:16
45:32
45:40
46:10
47:07
48:00
48:05
48:47
49:10
49:43
Time


File:PB7C_131A #1-495 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A8.01E6
A8.70E6
A1.01E7
A6.51E5
429.7606 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,644.0,5.00%,F,T)
A8.95E6
A9.75E6
A1.11E7
A7.02E5
439.8038 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,240.0,5.00%,F,T)
A1.03E7
A1.35E7
441.8008 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,660.0,5.00%,F,T)
A1.11E7
A1.53E7
454.9728 F:6
50:12
50:33
50:59
51:37
51:57
52:27
53:02
53:28
53:38
54:18
54:42
55:14
55:43
55:59
56:16
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.5E6
7.7E5
0.0E0
1.7E6
8.3E5
2.0E6
1.0E6
2.3E6
1.1E6
5.4E4
2.7E4


File:PB7C_131A #1-495 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,408.0,5.00%,F,T)
A8.01E6
A8.70E6
A1.01E7
A6.51E5
429.7606 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,644.0,5.00%,F,T)
A8.95E6
A9.75E6
A1.11E7
A7.02E5
461.7245 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A9.82E6
A9.82E6
A6.96E6
463.7216 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,504.0,5.00%,F,T)
A1.25E7
A1.25E7
A8.95E6
100%
80
60
40
20
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.5E6
1.2E6
9.2E5
6.1E5
3.1E5
0.0E0
1.7E6
1.3E6
1.0E6
6.6E5
3.3E5
0.0E0
1.5E6
1.2E6
9.1E5
6.1E5
3.0E5
0.0E0
2.0E6
1.6E6
1.2E6
7.8E5
3.9E5
0.0E0


File:PB7C_131A #1-495 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
461.7245 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A9.82E6
A9.82E6
A6.96E6
1.5E6
7.6E5
0.0E0
463.7216 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,504.0,5.00%,F,T)
A1.25E7
A1.25E7
A8.95E6
2.0E6
9.8E5
0.0E0
473.7648 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,296.0,5.00%,F,T)
A1.30E7
A9.52E6
2.0E6
1.0E6
0.0E0
475.7619 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,336.0,5.00%,F,T)
A1.68E7
A1.23E7
2.7E6
1.3E6
0.0E0
454.9728 F:6
50:12
50:33
50:59
51:37
51:57
52:27
53:02
53:28
53:38
54:18
54:42
55:14
55:43
55:59
56:16
5.4E4
2.7E4
0.0E0
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time


File:PB7C_131A #1-495 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,992.0,5.00%,F,T)
A7.89E6
A1.06E6
A7.43E5
A1.15E6
395.7995 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,772.0,5.00%,F,T)
A7.54E6
A6.42E5
A7.18E5
A6.73E5
405.8428 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,628.0,5.00%,F,T)
A1.58E7
A1.50E6
407.8398 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,672.0,5.00%,F,T)
A1.51E7
454.9728 F:6
50:12
50:33
50:43
50:59
51:37
51:57
100%
50
0
50:12 50:24 50:36 50:48 51:00 51:12 51:24 51:36 51:48 52:00 52:12 Time
1.2E6
5.9E5
0.0E0
1.1E6
5.7E5
2.4E6
1.2E6
2.3E6
1.1E6
5.2E4
2.6E4

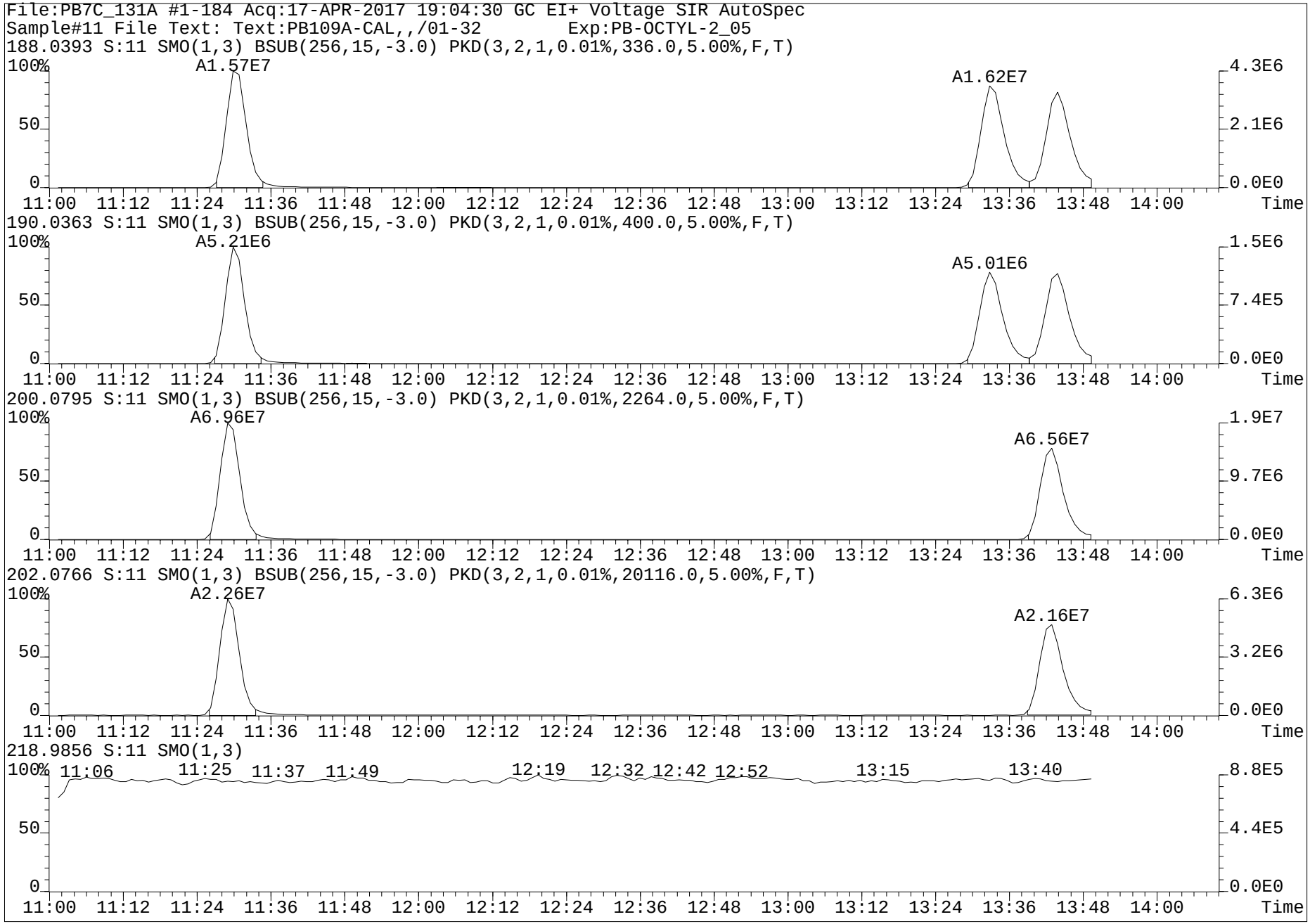

File:PB7C_131A #1-495 Acq:17-APR-2017 08:21:59 GC EI+ Voltage SIR AutoSpec
Sample#1 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
497.6826 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,244.0,5.00%,F,T)
A1.21E7
499.6797 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,200.0,5.00%,F,T)
A1.04E7
509.7229 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,276.0,5.00%,F,T)
A1.63E7
511.7199 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,200.0,5.00%,F,T)
A1.39E7
454.9728 F:6
56:57
57:01
57:22
57:33
57:38
57:48
100%
50
0
1.9E6
9.4E5
0.0E0
1.6E6
7.9E5
2.5E6
1.3E6
2.1E6
1.1E6
4.5E4
2.3E4
56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time

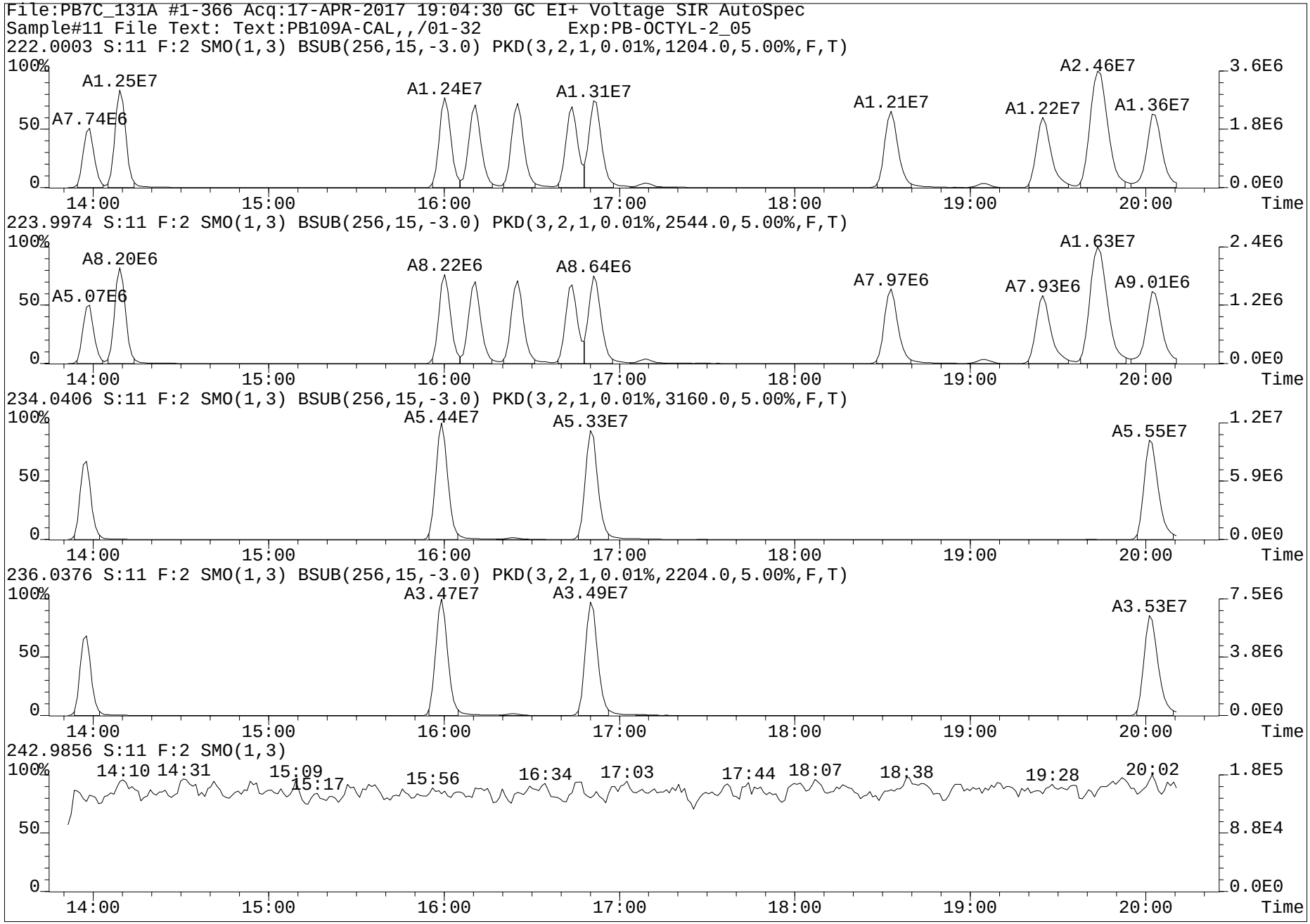
Run #9 Filename PB7C_131A S: 11 I: 1 Acquired: 17-APR-17 19:04:30 Processed: 19-APR-17 06:42:47
Run: pb7c_131a-b Analyte: 1668A-CV8 Cal: pb6c_435b-7a Results: pb7c_131a-b Version: V3.6 6-JAN-2000 17:51:42
Sample text: PB109A-CAL,,/01-32 Comments: 1,,1.0uL Cal
sample size: 1.000000 conc units: ng/mL total toxicity: 1342.30 F1: 1.0000 F2: 1.0000

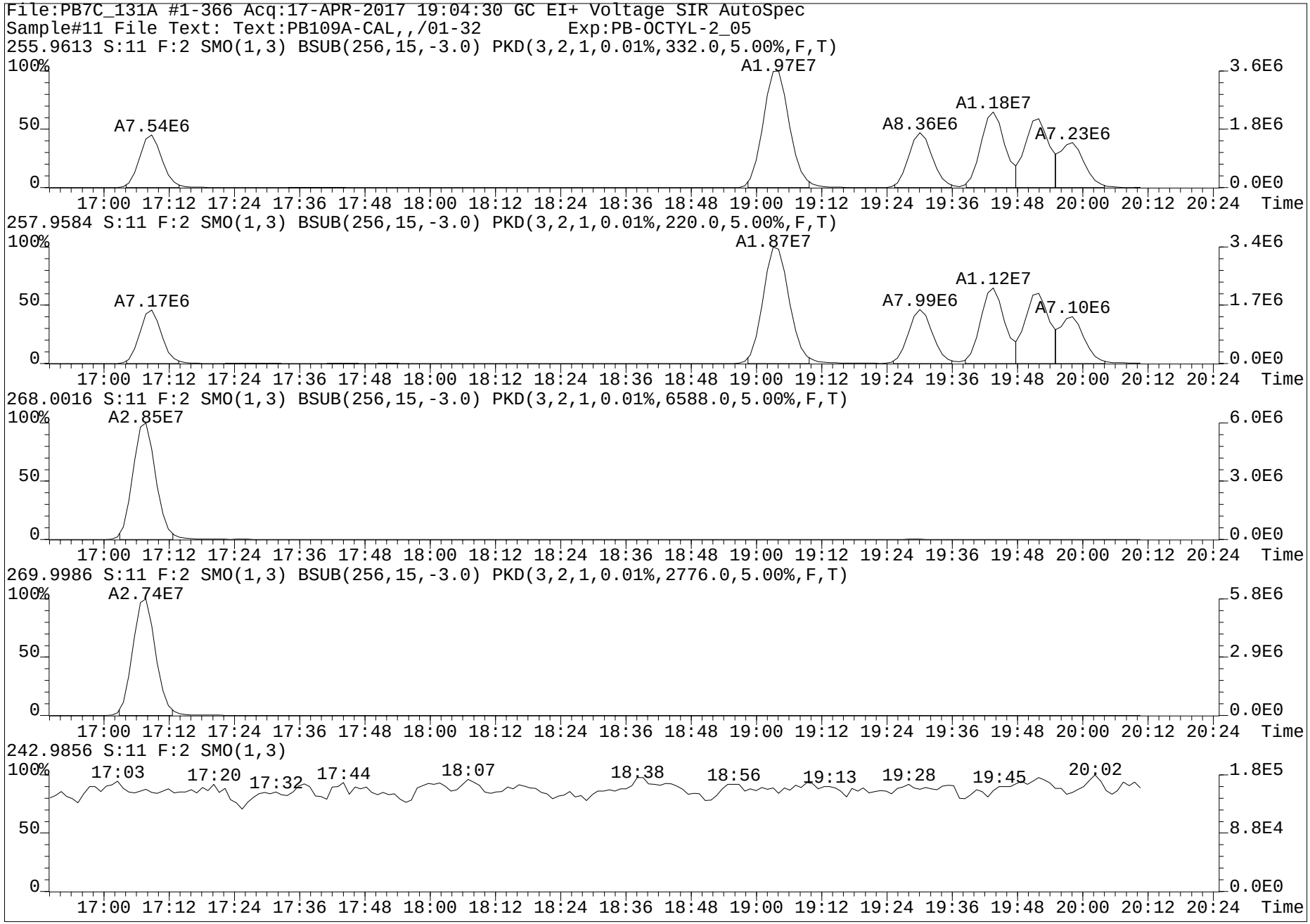
| | Typ | Name | #Hom | Resp | RA | | RT | Conc | Tox #1 | DL | Rec | M? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Unk | CL1-PCB-1 | 1 | 2.09e+07 | 3.00 | y | 11:30 | 20.729 | 21 | 0.0065 | - | n |
| 2 | Unk | CL1-PCB-3 | 1 | 2.10e+07 | 3.01 | y | 13:44 | 21.935 | 22 | 0.0084 | - | n |
| 3 | Unk | CL2-PCB-4 | 1 | 1.28e+07 | 1.53 | y | 13:58 | 22.582 | 23 | 0.0699 | - | n |
| 4 | Unk | CL2-PCB-15 | 1 | 2.26e+07 | 1.51 | y | 20:03 | 26.837 | 27 | 0.0609 | - | n |
| 5 | Unk | CL3-PCB-19 | 1 | 1.47e+07 | 1.05 | y | 17:09 | 26.649 | 27 | 0.0118 | - | n |
| 6 | Unk | CL3-PCB-37 | 1 | 1.89e+07 | 1.01 | y | 27:20 | 23.384 | 23 | 0.1046 | - | n |
| 7 | Unk | CL4-PCB-54 | 1 | 3.87e+07 | 0.77 | y | 20:19 | 50.490 | 50 | 0.0297 | - | n |
| 8 | Unk | CL4-PCB-81 | 1 | 3.40e+07 | 0.68 | y | 34:23 | 46.829 | 47 | 2.3454 | - | n |
| 9 | Unk | CL4-PCB-77 | 1 | 3.28e+07 | 0.74 | y | 34:59 | 46.129 | 46 | 2.4340 | - | n |
| 10 | Unk | CL5-PCB-104 | 1 | 3.82e+07 | 1.55 | y | 26:02 | 55.238 | 55 | 0.0101 | - | n |
| 11 | Unk | CL5-PCB-123 | 1 | 3.01e+07 | 1.51 | y | 37:04 | 47.780 | 48 | 4.5664 | - | n |
| 12 | Unk | CL5-PCB-118 | 1 | 3.03e+07 | 1.52 | y | 37:25 | 47.190 | 47 | 4.4563 | - | n |
| 13 | Unk | CL5-PCB-114 | 1 | 3.06e+07 | 1.45 | y | 37:58 | 51.729 | 52 | 4.7989 | - | n |
| 14 | Unk | CL5-PCB-105 | 1 | 2.83e+07 | 1.52 | y | 38:39 | 56.560 | 57 | 5.7314 | - | n |
| 15 | Unk | CL5-PCB-126 | 1 | 2.10e+07 | 1.42 | y | 41:53 | 48.799 | 49 | 7.0382 | - | n |
| 16 | Unk | CL6-PCB-155 | 1 | 4.16e+07 | 1.24 | y | 31:58 | 50.038 | 50 | 0.0076 | - | n |
| 17 | Unk | CL6-PCB-167 | 1 | 2.38e+07 | 1.24 | y | 43:50 | 53.151 | 53 | 3.2551 | - | n |
| 18 | Unk | CL6-PCB-156/157 | 1 | 4.27e+07 | 1.25 | y | 45:02 | 99.360 | 99 | 4.0352 | - | n |
| 19 | Unk | CL6-PCB-169 | 1 | 2.01e+07 | 1.28 | y | 48:27 | 50.372 | 50 | 3.8053 | - | n |
| 20 | Unk | CL7-PCB-188 | 1 | 2.56e+07 | 1.05 | y | 37:57 | 50.233 | 50 | 0.0251 | - | n |
| 21 | Unk | CL7-PCB-189 | 1 | 1.60e+07 | 1.03 | y | 51:05 | 49.269 | 49 | 0.0996 | - | n |
| 22 | Unk | CL8-PCB-202 | 1 | 3.27e+07 | 0.88 | y | 43:33 | 86.900 | 87 | 0.0194 | - | n |
| 23 | Unk | CL8-PCB-205 | 1 | 2.13e+07 | 0.88 | y | 53:47 | 75.204 | 75 | 0.1093 | - | n |
| 24 | Unk | CL9-PCB-208 | 1 | 2.30e+07 | 0.78 | y | 50:34 | 83.947 | 84 | 0.0377 | - | n |
| 25 | Unk | CL9-PCB-206 | 1 | 1.57e+07 | 0.77 | y | 55:35 | 75.224 | 75 | 0.0516 | - | n |
| 26 | Unk | CL10-PCB-209 | 1 | 2.25e+07 | 1.18 | y | 57:16 | 75.747 | 76 | 0.0262 | - | n |
| 27 | IS | 13C-CL1-PCB-1 | 1 | 9.22e+07 | 3.09 | y | 11:29 | 99.529 | 0 | 0.2780 | 99.5 | n |
| 28 | IS | 13C-CL1-PCB-3 | 1 | 8.73e+07 | 3.04 | y | 13:43 | 96.594 | 0 | 0.2851 | 96.6 | n |
| 29 | IS | 13C-CL2-PCB-4 | 1 | 5.54e+07 | 1.55 | y | 13:57 | 93.165 | 0 | 0.1038 | 93.2 | n |
| 30 | IS | 13C-CL2-PCB-15 | 1 | 9.08e+07 | 1.57 | y | 20:02 | 93.259 | 0 | 0.0634 | 93.3 | n |
| 31 | IS | 13C-CL3-PCB-19 | 1 | 5.59e+07 | 1.04 | y | 17:08 | 105.074 | 0 | 0.2026 | 105.1 | n |
| 32 | IS | 13C-CL3-PCB-37 | 1 | 8.00e+07 | 1.04 | y | 27:19 | 80.068 | 0 | 0.2164 | 80.1 | n |
| 33 | REF | 13C-CL4-CHECK | 1 | 7.36e+07 | 0.80 | y | 20:18 | 90.064 | 0 | 0.0351 | 90.1 | n |
| 34 | IS | 13C-CL4-PCB-81 | 1 | 7.10e+07 | 0.75 | y | 34:22 | 87.721 | 0 | 0.0368 | 87.7 | n |
| 35 | IS | 13C-CL4-PCB-77 | 1 | 7.08e+07 | 0.77 | y | 34:57 | 84.857 | 0 | 0.0357 | 84.9 | n |
| 36 | IS | 13C-CL5-PCB-104 | 1 | 6.61e+07 | 1.57 | y | 26:00 | 80.128 | 0 | 0.0097 | 80.1 | n |
| 37 | IS | 13C-CL5-PCB-123 | 1 | 6.48e+07 | 1.58 | y | 37:03 | 87.704 | 0 | 0.0784 | 87.7 | n |
| 38 | IS | 13C-CL5-PCB-118 | 1 | 6.28e+07 | 1.58 | y | 37:23 | 86.144 | 0 | 0.0795 | 86.1 | n |
| 39 | IS | 13C-CL5-PCB-114 | 1 | 5.57e+07 | 1.69 | y | 37:56 | 78.800 | 0 | 0.0820 | 78.8 | n |
| 40 | IS | 13C-CL5-PCB-105 | 1 | 4.91e+07 | 1.56 | y | 38:37 | 67.694 | 0 | 0.0799 | 67.7 | n |
| 41 | IS | 13C-CL5-PCB-126 | 1 | 4.18e+07 | 1.58 | y | 41:52 | 62.951 | 0 | 0.0872 | 63.0 | n |
| 42 | IS | 13C-CL6-PCB-155 | 1 | 8.26e+07 | 1.27 | y | 31:56 | 129.750 | 0 | 0.0111 | 129.8 | n |
| 43 | IS | 13C-CL6-PCB-167 | 1 | 4.05e+07 | 1.23 | y | 43:48 | 87.617 | 0 | 0.0450 | 87.6 | n |
| 44 | IS | 13C-CL6-PCB-156/157 | 1 | 7.97e+07 | 1.26 | y | 45:00 | 165.478 | 0 | 0.0431 | 82.7 | n |

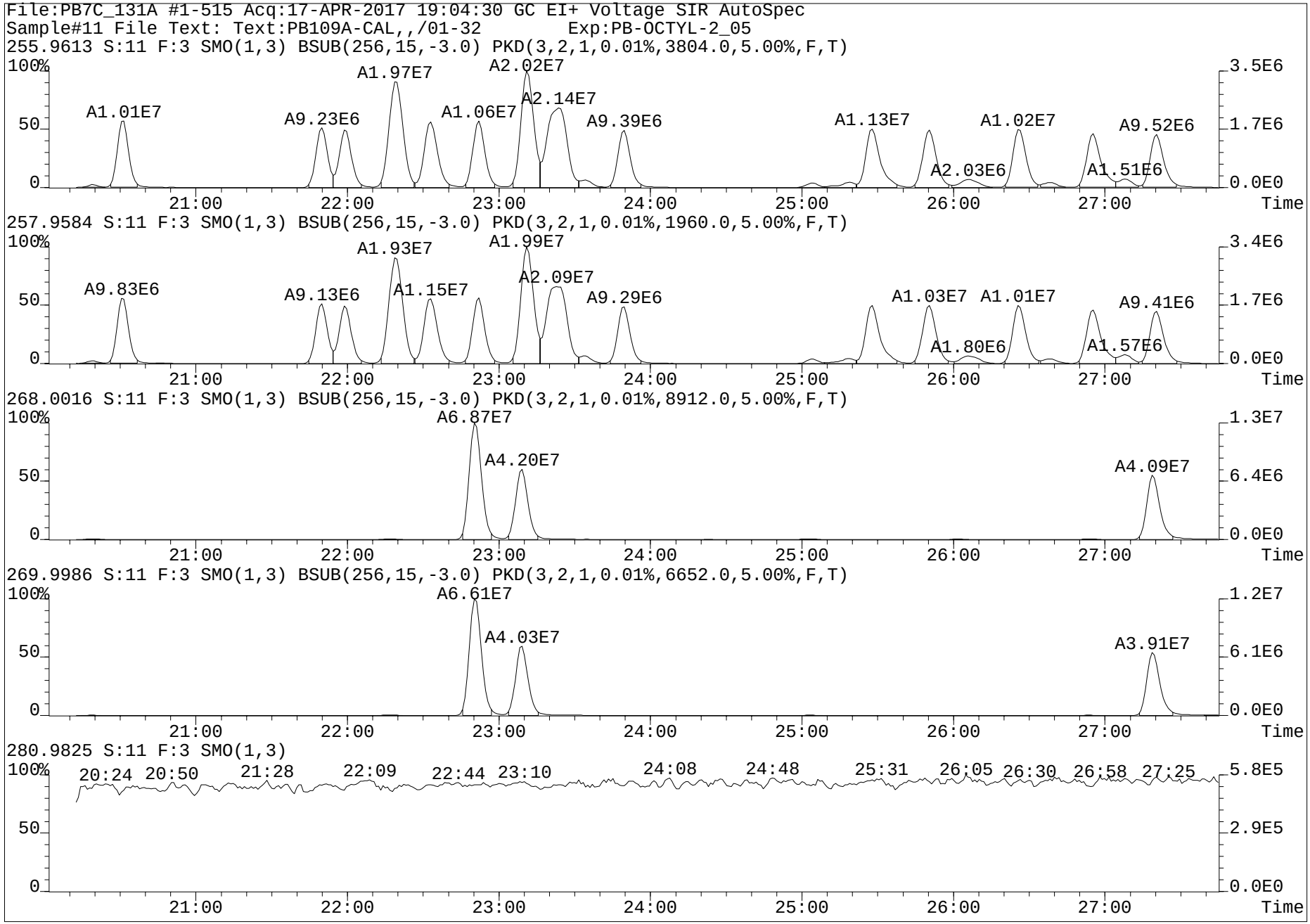
pv by TD 19-Apr-2017

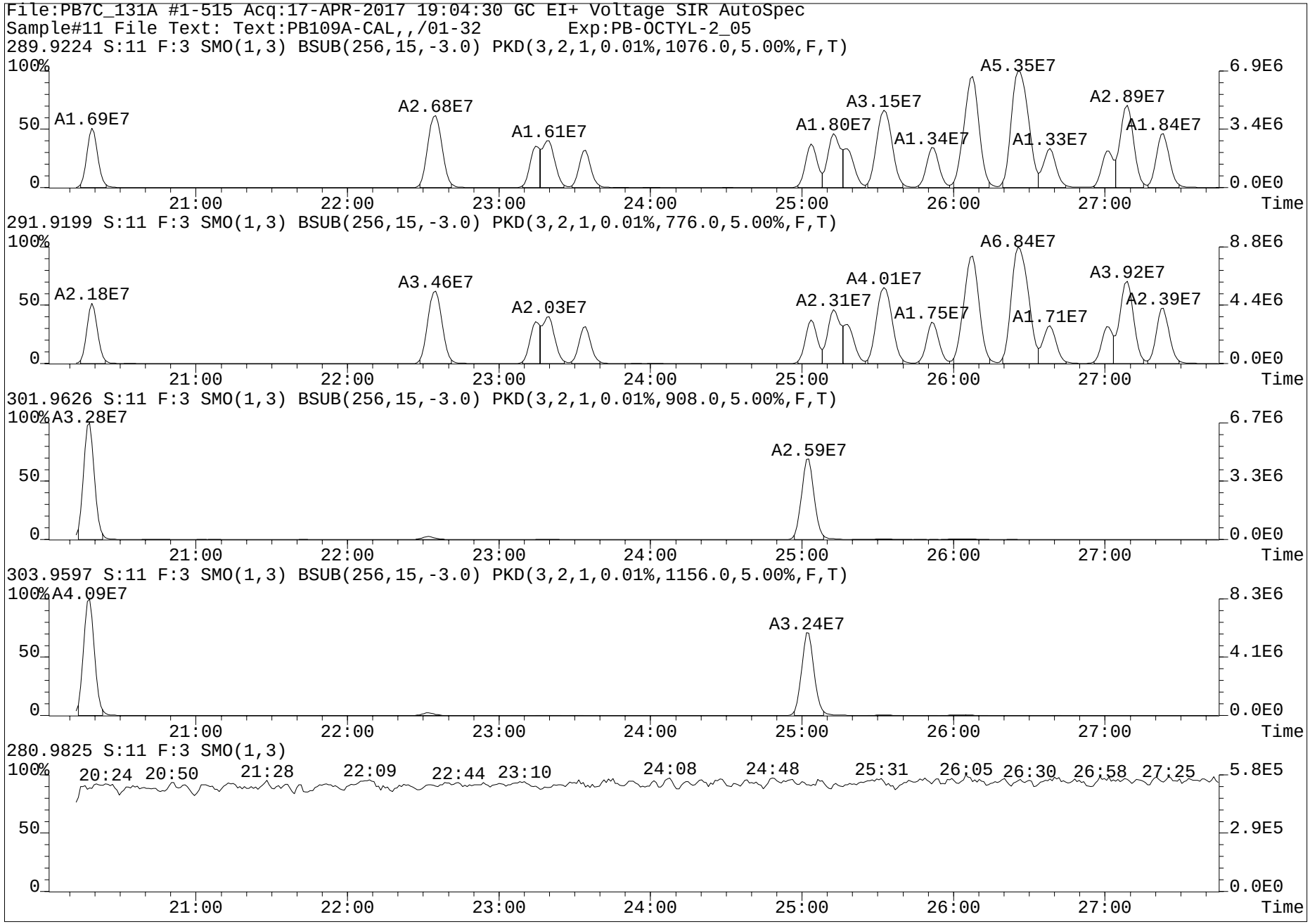
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | IS | 13C-CL6-PCB-169 | 1 | 3.91e+07 | 1.27 | y | 48:25 | 85.161 | 0 | 0.0452 | 85.2 | n |
| 46 | REF | 13C-CL7-CHECK | 1 | 5.38e+07 | 1.05 | y | 37:55 | 98.192 | 0 | 0.0160 | 98.2 | n |
| 47 | IS | 13C-CL7-PCB-189 | 1 | 3.23e+07 | 1.03 | y | 51:04 | 90.402 | 0 | 0.0675 | 90.4 | n |
| 48 | IS | 13C-CL8-PCB-202 | 1 | 4.40e+07 | 0.94 | y | 43:32 | 86.579 | 0 | 0.0154 | 86.6 | n |
| 49 | IS | 13C-CL8-PCB-205 | 1 | 2.98e+07 | 0.90 | y | 53:45 | 89.218 | 0 | 0.0683 | 89.2 | n |
| 50 | IS | 13C-CL9-PCB-208 | 1 | 3.01e+07 | 0.76 | y | 50:32 | 94.204 | 0 | 0.0274 | 94.2 | n |
| 51 | IS | 13C-CL9-PCB-206 | 1 | 2.23e+07 | 0.77 | y | 55:34 | 92.266 | 0 | 0.0363 | 92.3 | n |
| 52 | IS | 13C-CL10-PCB-209 | 1 | 2.92e+07 | 1.20 | y | 57:14 | 96.002 | 0 | 0.0268 | 96.0 | n |
| 53 | RS | 13C-CL2-PCB-9 | 1 | 8.91e+07 | 1.57 | y | 15:59 | 55.953 | 0 | - | - | n |
| 54 | RS | 13C-CL4-PCB-52 | 1 | 5.83e+07 | 0.80 | y | 25:02 | 66.533 | 0 | - | - | n |
| 55 | RS | 13C-CL5-PCB-101 | 1 | 5.61e+07 | 1.58 | y | 32:11 | 72.472 | 0 | - | - | n |
| 56 | RS/RT | 13C-CL6-PCB-138 | 1 | 3.66e+07 | 1.25 | y | 40:38 | 53.170 | 0 | - | - | n |
| 57 | RS | 13C-CL8-PCB-194 | 1 | 2.19e+07 | 0.89 | y | 53:15 | 50.750 | 0 | - | - | n |
| 58 | C/UP | 13C-CL3-PCB-28 | 1 | 8.23e+07 | 1.04 | y | 23:09 | 83.514 | 0 | 0.2194 | 83.5 | n |
| 59 | C/Up | 13C-CL5-PCB-111 | 1 | 7.04e+07 | 1.59 | y | 35:00 | 95.680 | 0 | 0.0199 | 95.7 | n |
| 60 | C/Up | 13C-CL7-PCB-178 | 1 | 3.43e+07 | 1.06 | y | 41:07 | 95.157 | 0 | 0.0233 | 95.2 | n |
| 61 | IS | 13C-CL4-PCB-54 | 1 | 7.36e+07 | 0.80 | y | 20:18 | 90.064 | 0 | 0.0351 | 90.1 | n |
| 62 | IS | 13C-CL7-PCB-188 | 1 | 5.38e+07 | 1.05 | y | 37:55 | 98.192 | 0 | 0.0160 | 98.2 | n |
| 63 | LM | CL1-LOCK | - | - | | | - | - | - | - | - | n |
| 64 | LM | CL2-LOCK | - | - | | | - | - | - | - | - | n |
| 65 | LM | CL3-LOCK | - | - | | | - | - | - | - | - | n |
| 66 | LM | CL3,4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 67 | LM | CL4,5-LOCK | - | - | | | - | - | - | - | - | n |
| 68 | LM | CL5-LOCK | - | - | | | - | - | - | - | - | n |
| 69 | LM | CL6-LOCK | - | - | | | - | - | - | - | - | n |
| 70 | LM | CL6,7-LOCK | - | - | | | - | - | - | - | - | n |
| 71 | LM | CL7-LOCK | - | - | | | - | - | - | - | - | n |
| 72 | LM | CL8-LOCK | - | - | | | - | - | - | - | - | n |
| 73 | LM | CL8,9-LOCK | - | - | | | - | - | - | - | - | n |
| 74 | LM | CL10-LOCK | - | - | | | - | - | - | - | - | n |

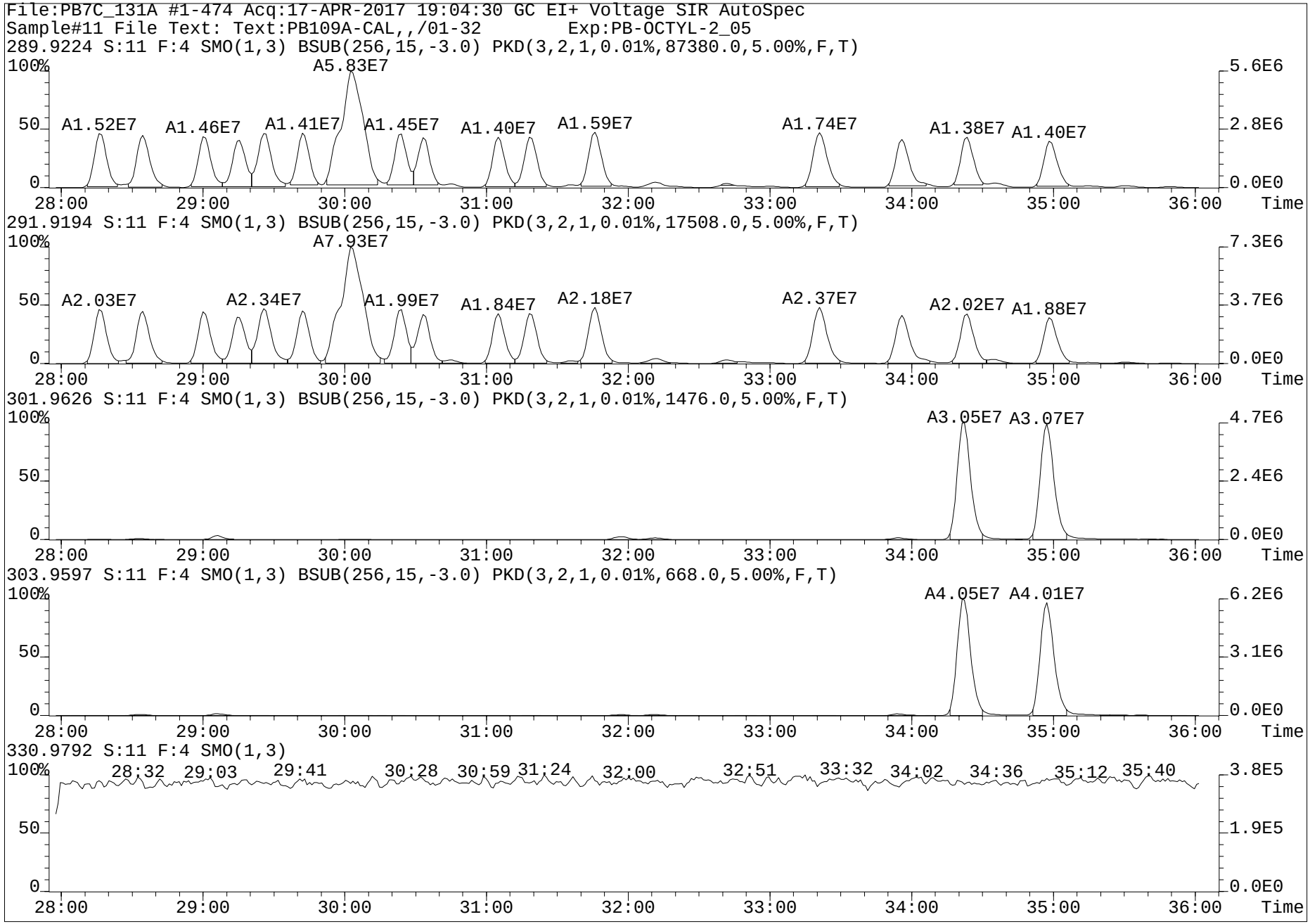

File:PB7C_131A #1-184 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
188.0393 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,336.0,5.00%,F,T)
A1.57E7
A1.62E7
4.3E6
2.1E6
0.0E0
190.0363 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,400.0,5.00%,F,T)
A5.21E6
A5.01E6
1.5E6
7.4E5
0.0E0
200.0795 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2264.0,5.00%,F,T)
A6.96E7
A6.56E7
1.9E7
9.7E6
0.0E0
202.0766 S:11 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,20116.0,5.00%,F,T)
A2.26E7
A2.16E7
6.3E6
3.2E6
0.0E0
218.9856 S:11 SMO(1,3)
11:06
11:25
11:37
11:49
12:19
12:32
12:42
12:52
13:15
13:40
8.8E5
4.4E5
0.0E0
100%
50
0
11:00 11:12 11:24 11:36 11:48 12:00 12:12 12:24 12:36 12:48 13:00 13:12 13:24 13:36 13:48 14:00
Time

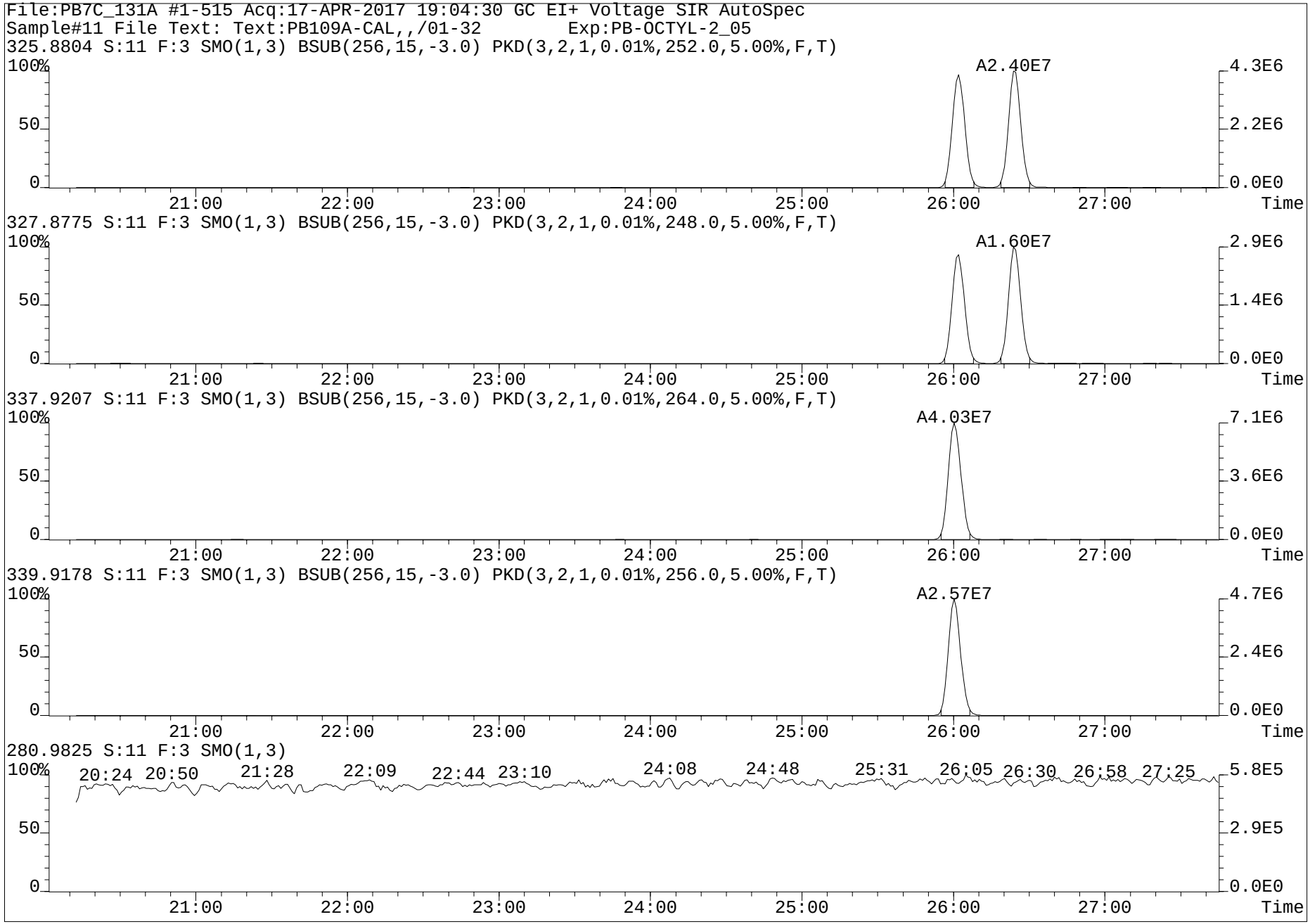

File:PB7C_131A #1-366 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
222.0003 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1204.0,5.00%,F,T)
A1.25E7
A7.74E6
A1.24E7
A1.31E7
A1.21E7
A1.22E7
A2.46E7
A1.36E7
223.9974 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2544.0,5.00%,F,T)
A8.20E6
A5.07E6
A8.22E6
A8.64E6
A7.97E6
A7.93E6
A1.63E7
A9.01E6
234.0406 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3160.0,5.00%,F,T)
A5.44E7
A5.33E7
A5.55E7
236.0376 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2204.0,5.00%,F,T)
A3.47E7
A3.49E7
A3.53E7
242.9856 S:11 F:2 SMO(1,3)
14:10 14:31 15:09 15:17 15:56 16:34 17:03 17:44 18:07 18:38 19:28 20:02
100%
50
0
14:00 15:00 16:00 17:00 18:00 19:00 20:00 Time
3.6E6 1.8E6 0.0E0
2.4E6 1.2E6 0.0E0
1.2E7 5.9E6 0.0E0
7.5E6 3.8E6 0.0E0
1.8E5 8.8E4 0.0E0

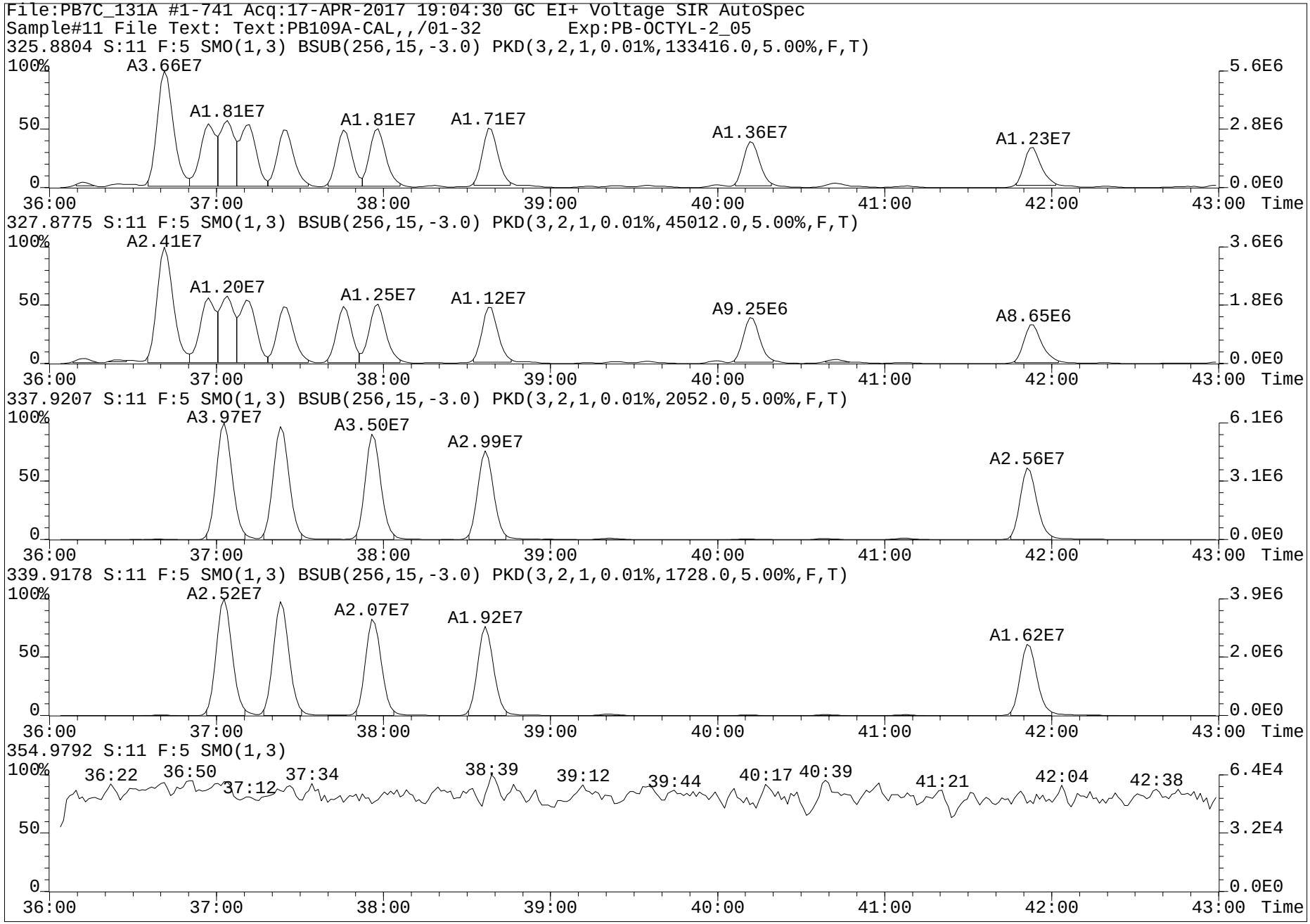

File:PB7C_131A #1-366 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,332.0,5.00%,F,T)
A7.54E6
A1.97E7
A8.36E6
A1.18E7
A7.23E6
257.9584 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,220.0,5.00%,F,T)
A7.17E6
A1.87E7
A7.99E6
A1.12E7
A7.10E6
268.0016 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6588.0,5.00%,F,T)
A2.85E7
269.9986 S:11 F:2 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2776.0,5.00%,F,T)
A2.74E7
242.9856 S:11 F:2 SMO(1,3)
17:03
17:20
17:32
17:44
18:07
18:38
18:56
19:13
19:28
19:45
20:02
100%
50
0
17:00 17:12 17:24 17:36 17:48 18:00 18:12 18:24 18:36 18:48 19:00 19:12 19:24 19:36 19:48 20:00 20:12 20:24 Time
3.6E6
1.8E6
0.0E0
3.4E6
1.7E6
6.0E6
3.0E6
5.8E6
2.9E6
1.8E5
8.8E4

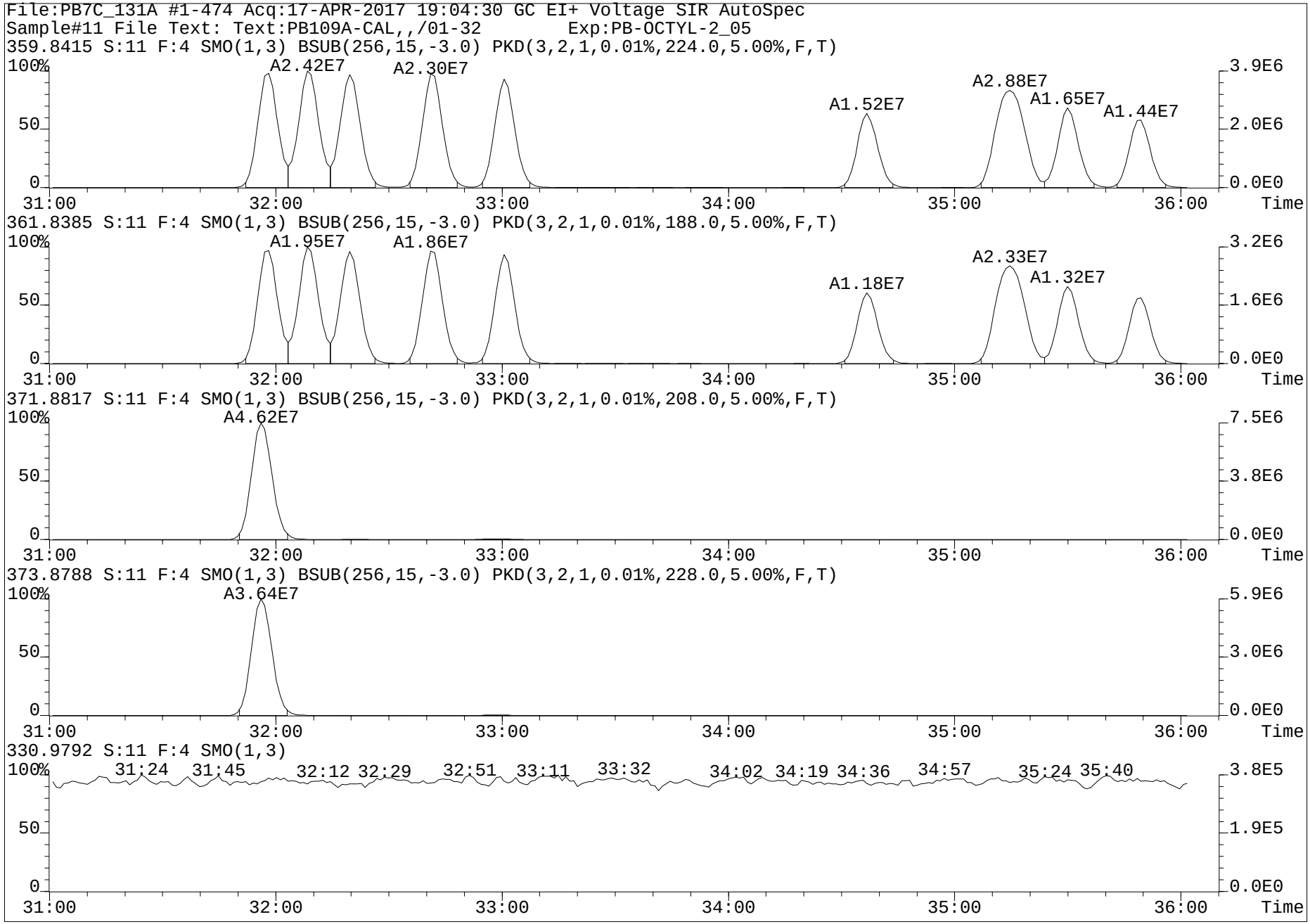

File:PB7C_131A #1-515 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
255.9613 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,3804.0,5.00%,F,T)
A1.01E7
A9.23E6
A1.97E7
A1.06E7
A2.02E7
A2.14E7
A9.39E6
A1.13E7
A2.03E6
A1.02E7
A1.51E6
A9.52E6
257.9584 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1960.0,5.00%,F,T)
A9.83E6
A9.13E6
A1.93E7
A1.15E7
A1.99E7
A2.09E7
A9.29E6
A1.03E7
A1.80E6
A1.01E7
A1.57E6
A9.41E6
268.0016 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,8912.0,5.00%,F,T)
A6.87E7
A4.20E7
A4.09E7
269.9986 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,6652.0,5.00%,F,T)
A6.61E7
A4.03E7
A3.91E7
280.9825 S:11 F:3 SMO(1,3)
20:24 20:50 21:28 22:09 22:44 23:10 24:08 24:48 25:31 26:05 26:30 26:58 27:25
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
3.5E6 1.7E6 0.0E0
3.4E6 1.7E6 0.0E0
1.3E7 6.4E6 0.0E0
1.2E7 6.1E6 0.0E0
5.8E5 2.9E5 0.0E0

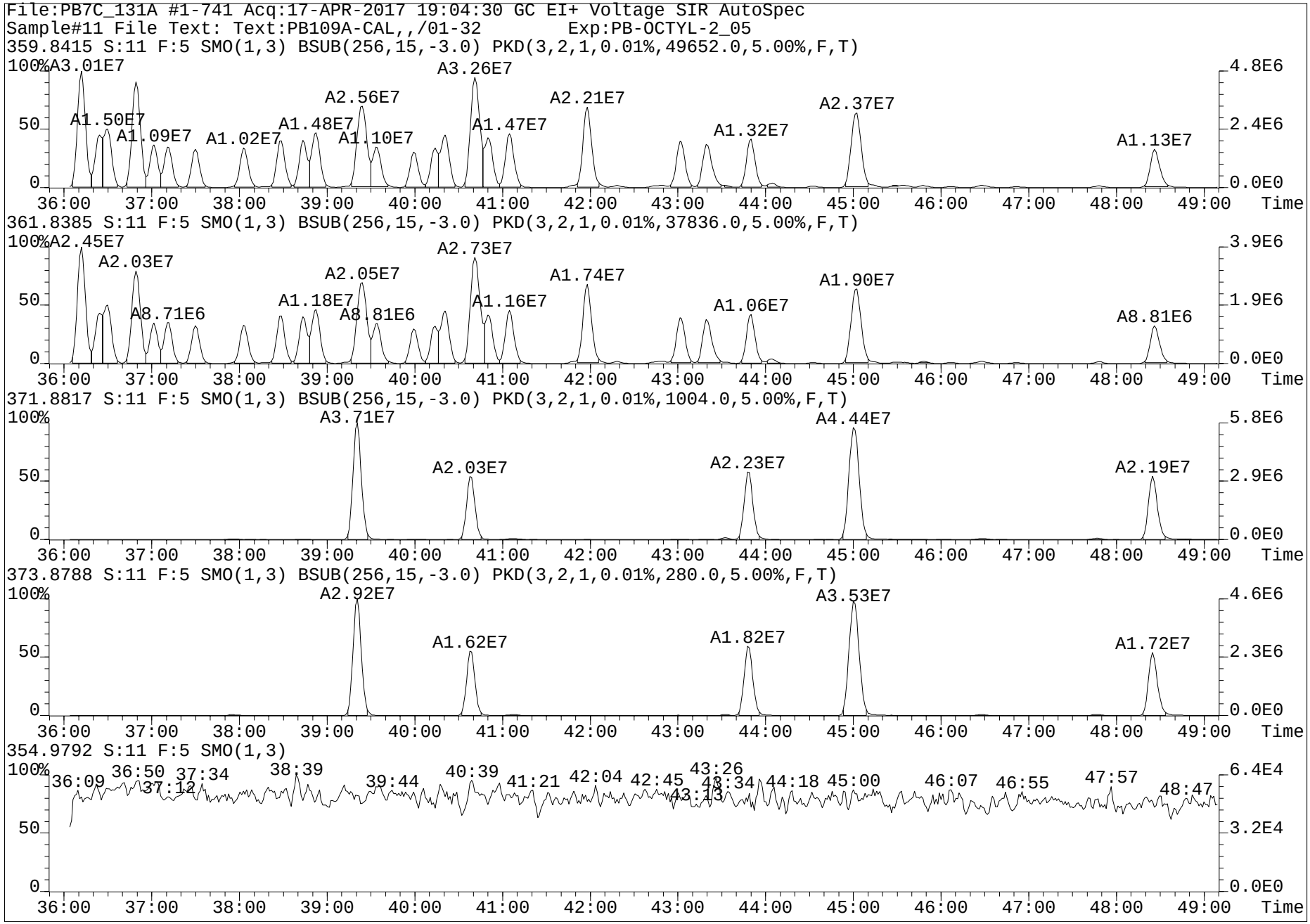

File:PB7C_131A #1-515 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1076.0,5.00%,F,T)
A1.69E7
A2.68E7
A1.61E7
A1.80E7
A3.15E7
A1.34E7
A5.35E7
A1.33E7
A2.89E7
A1.84E7
6.9E6
3.4E6
0.0E0
291.9199 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,776.0,5.00%,F,T)
A2.18E7
A3.46E7
A2.03E7
A2.31E7
A4.01E7
A1.75E7
A6.84E7
A1.71E7
A3.92E7
A2.39E7
8.8E6
4.4E6
0.0E0
301.9626 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,908.0,5.00%,F,T)
A3.28E7
A2.59E7
6.7E6
3.3E6
0.0E0
303.9597 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1156.0,5.00%,F,T)
A4.09E7
A3.24E7
8.3E6
4.1E6
0.0E0
280.9825 S:11 F:3 SMO(1,3)
20:24 20:50 21:28 22:09 22:44 23:10 24:08 24:48 25:31 26:05 26:30 26:58 27:25
5.8E5
2.9E5
0.0E0
100%
50
0
21:00
22:00
23:00
24:00
25:00
26:00
27:00
Time

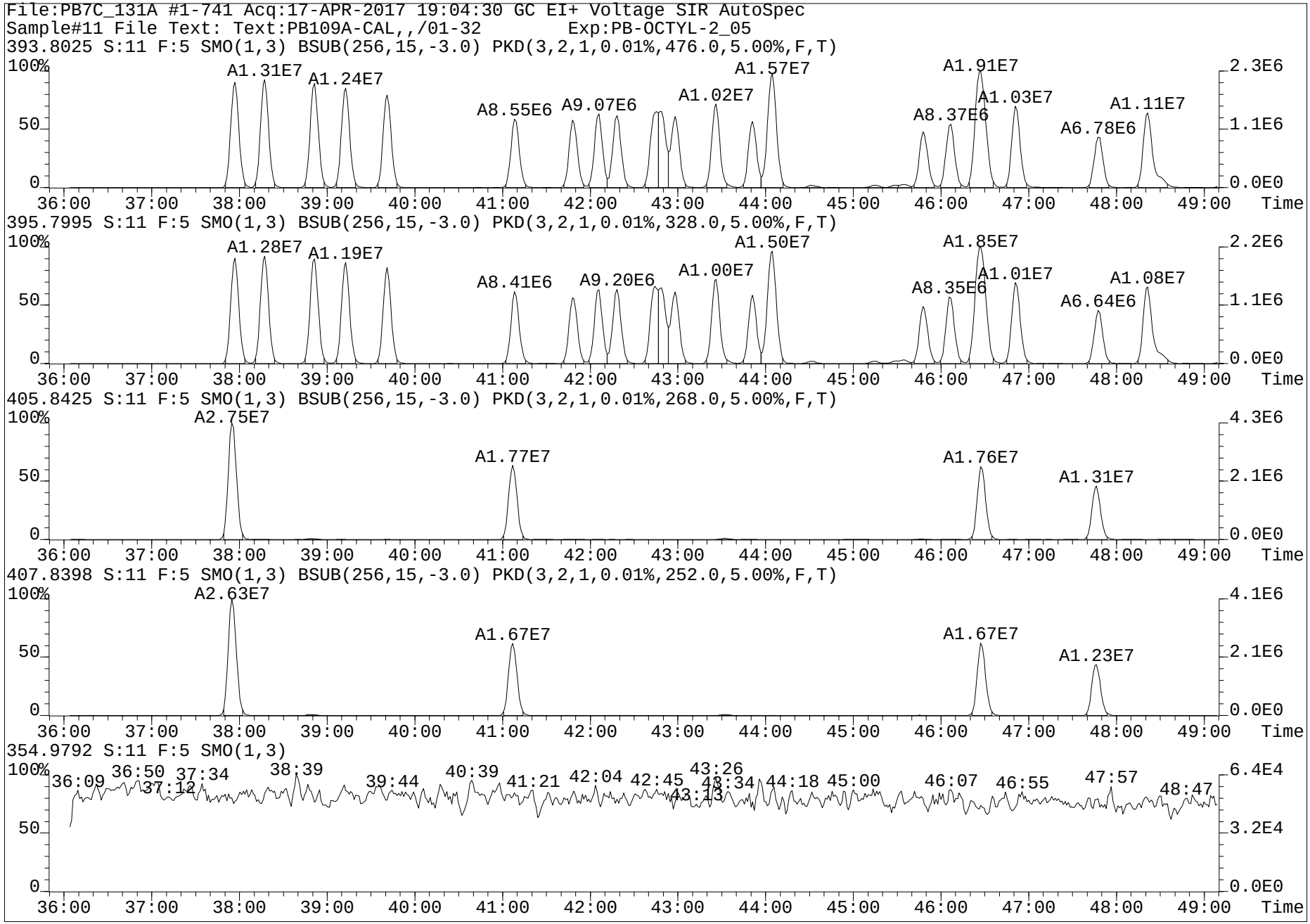

File:PB7C_131A #1-474 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
289.9224 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,87380.0,5.00%,F,T)
A1.52E7 A1.46E7 A1.41E7 A5.83E7 A1.45E7 A1.40E7 A1.59E7 A1.74E7 A1.38E7 A1.40E7
291.9194 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,17508.0,5.00%,F,T)
A2.03E7 A2.34E7 A7.93E7 A1.99E7 A1.84E7 A2.18E7 A2.37E7 A2.02E7 A1.88E7
301.9626 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1476.0,5.00%,F,T)
A3.05E7 A3.07E7
303.9597 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,668.0,5.00%,F,T)
A4.05E7 A4.01E7
330.9792 S:11 F:4 SMO(1,3)
28:32 29:03 29:41 30:28 30:59 31:24 32:00 32:51 33:32 34:02 34:36 35:12 35:40
100%
50
0
28:00 29:00 30:00 31:00 32:00 33:00 34:00 35:00 36:00 Time
5.6E6 2.8E6 0.0E0
7.3E6 3.7E6 0.0E0
4.7E6 2.4E6 0.0E0
6.2E6 3.1E6 0.0E0
3.8E5 1.9E5 0.0E0

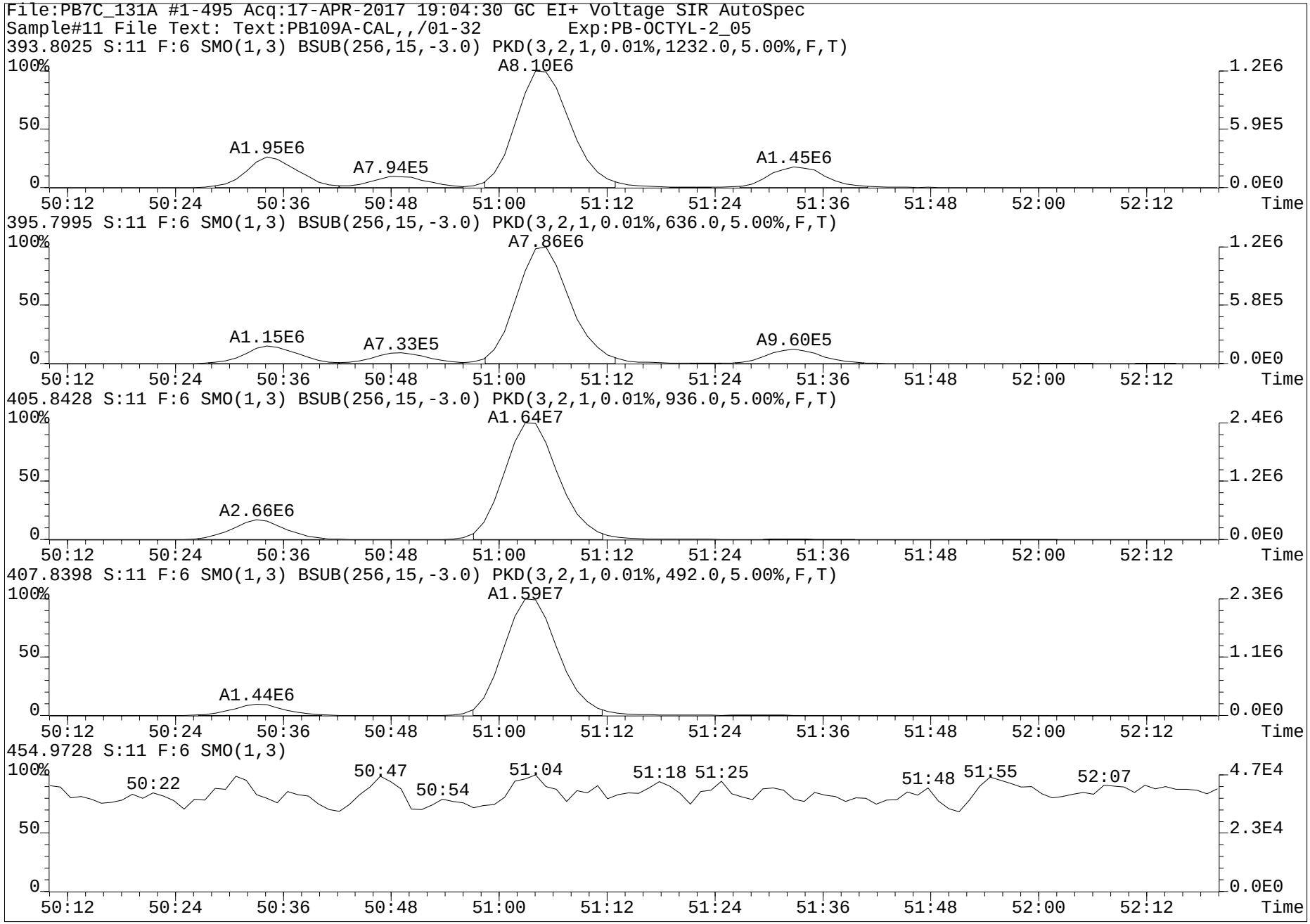

File:PB7C_131A #1-515 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A2.40E7
327.8775 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.60E7
337.9207 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,264.0,5.00%,F,T)
A4.03E7
339.9178 S:11 F:3 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,256.0,5.00%,F,T)
A2.57E7
280.9825 S:11 F:3 SMO(1,3)
20:24 20:50 21:28 22:09 22:44 23:10 24:08 24:48 25:31 26:05 26:30 26:58 27:25
100%
50
0
21:00 22:00 23:00 24:00 25:00 26:00 27:00 Time
4.3E6 2.2E6 0.0E0
2.9E6 1.4E6 0.0E0
7.1E6 3.6E6 0.0E0
4.7E6 2.4E6 0.0E0
5.8E5 2.9E5 0.0E0

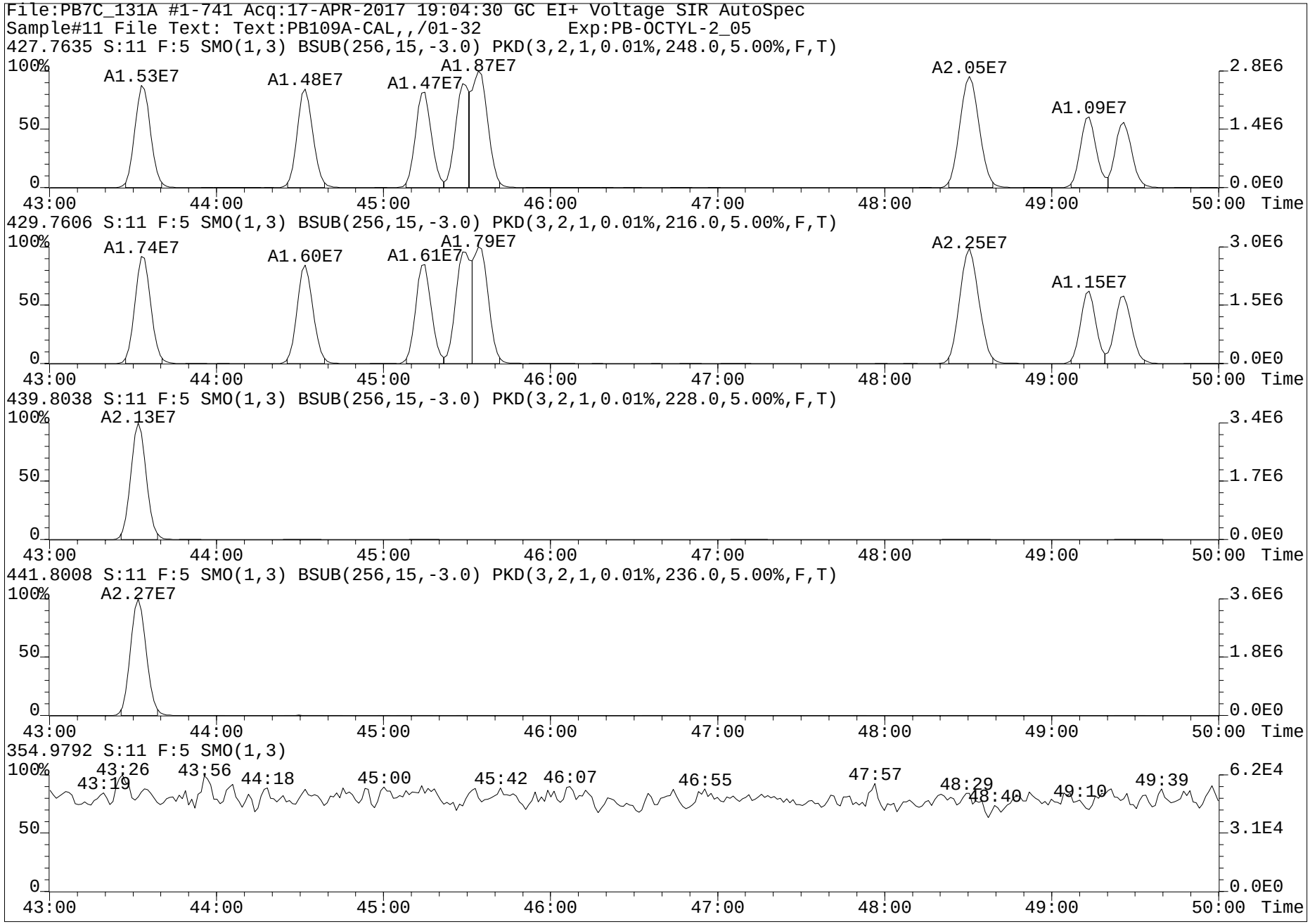

File:PB7C_131A #1-741 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
325.8804 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,133416.0,5.00%,F,T)
A3.66E7
A1.81E7
A1.81E7
A1.71E7
A1.36E7
A1.23E7
327.8775 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,45012.0,5.00%,F,T)
A2.41E7
A1.20E7
A1.25E7
A1.12E7
A9.25E6
A8.65E6
337.9207 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,2052.0,5.00%,F,T)
A3.97E7
A3.50E7
A2.99E7
A2.56E7
339.9178 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1728.0,5.00%,F,T)
A2.52E7
A2.07E7
A1.92E7
A1.62E7
354.9792 S:11 F:5 SMO(1,3)
36:22
36:50
37:12
37:34
38:39
39:12
39:44
40:17
40:39
41:21
42:04
42:38
100%
50
0
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
Time
5.6E6
2.8E6
0.0E0
3.6E6
1.8E6
0.0E0
6.1E6
3.1E6
0.0E0
3.9E6
2.0E6
0.0E0
6.4E4
3.2E4
0.0E0

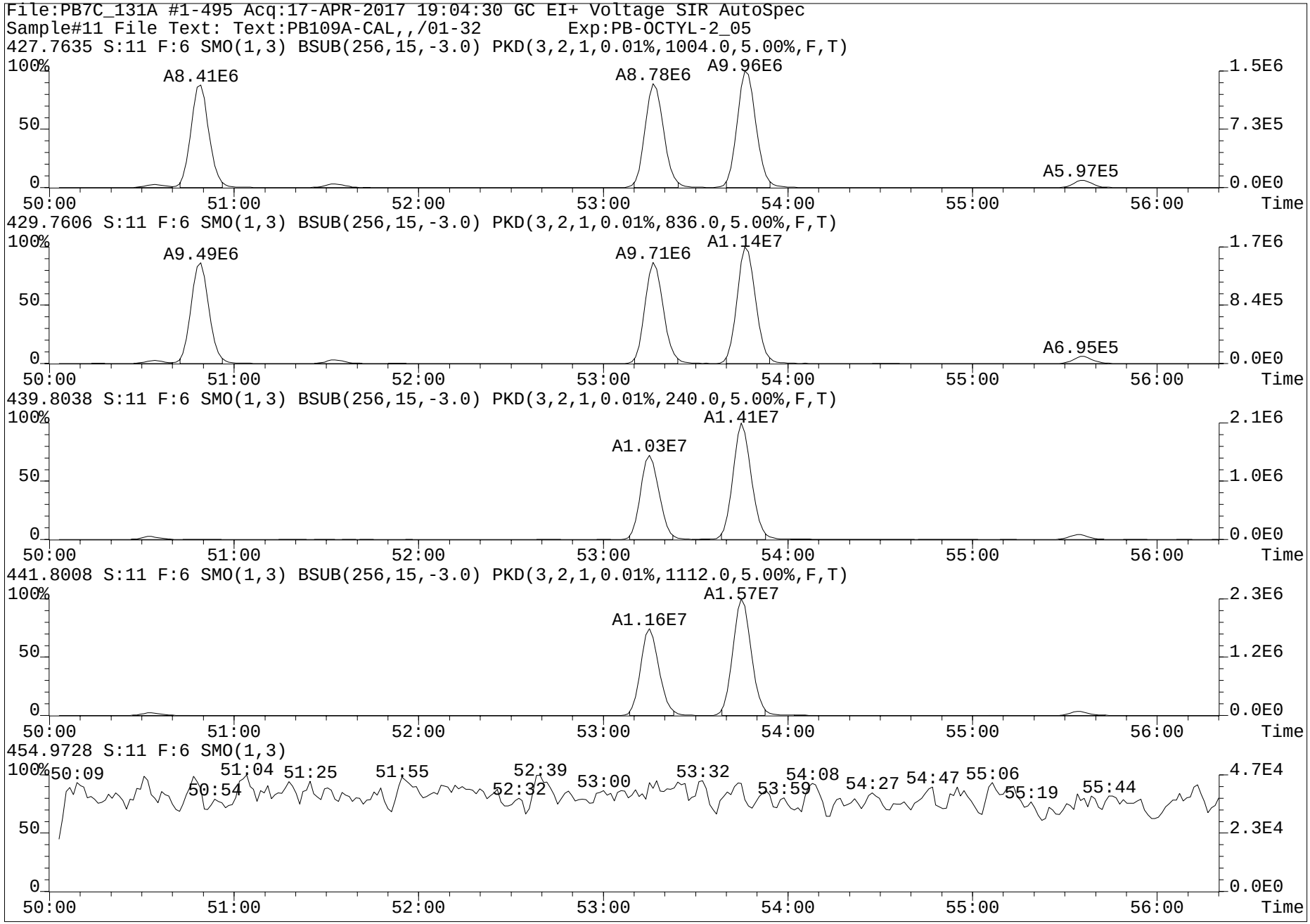

File:PB7C_131A #1-474 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,224.0,5.00%,F,T)
A2.42E7
A2.30E7
A1.52E7
A2.88E7
A1.65E7
A1.44E7
361.8385 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,188.0,5.00%,F,T)
A1.95E7
A1.86E7
A1.18E7
A2.33E7
A1.32E7
371.8817 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,208.0,5.00%,F,T)
A4.62E7
373.8788 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,228.0,5.00%,F,T)
A3.64E7
330.9792 S:11 F:4 SMO(1,3)
31:24 31:45 32:12 32:29 32:51 33:11 33:32 34:02 34:19 34:36 34:57 35:24 35:40
100%
50
0
31:00
32:00
33:00
34:00
35:00
36:00
Time
3.9E6
2.0E6
0.0E0
3.2E6
1.6E6
0.0E0
7.5E6
3.8E6
0.0E0
5.9E6
3.0E6
0.0E0
3.8E5
1.9E5
0.0E0

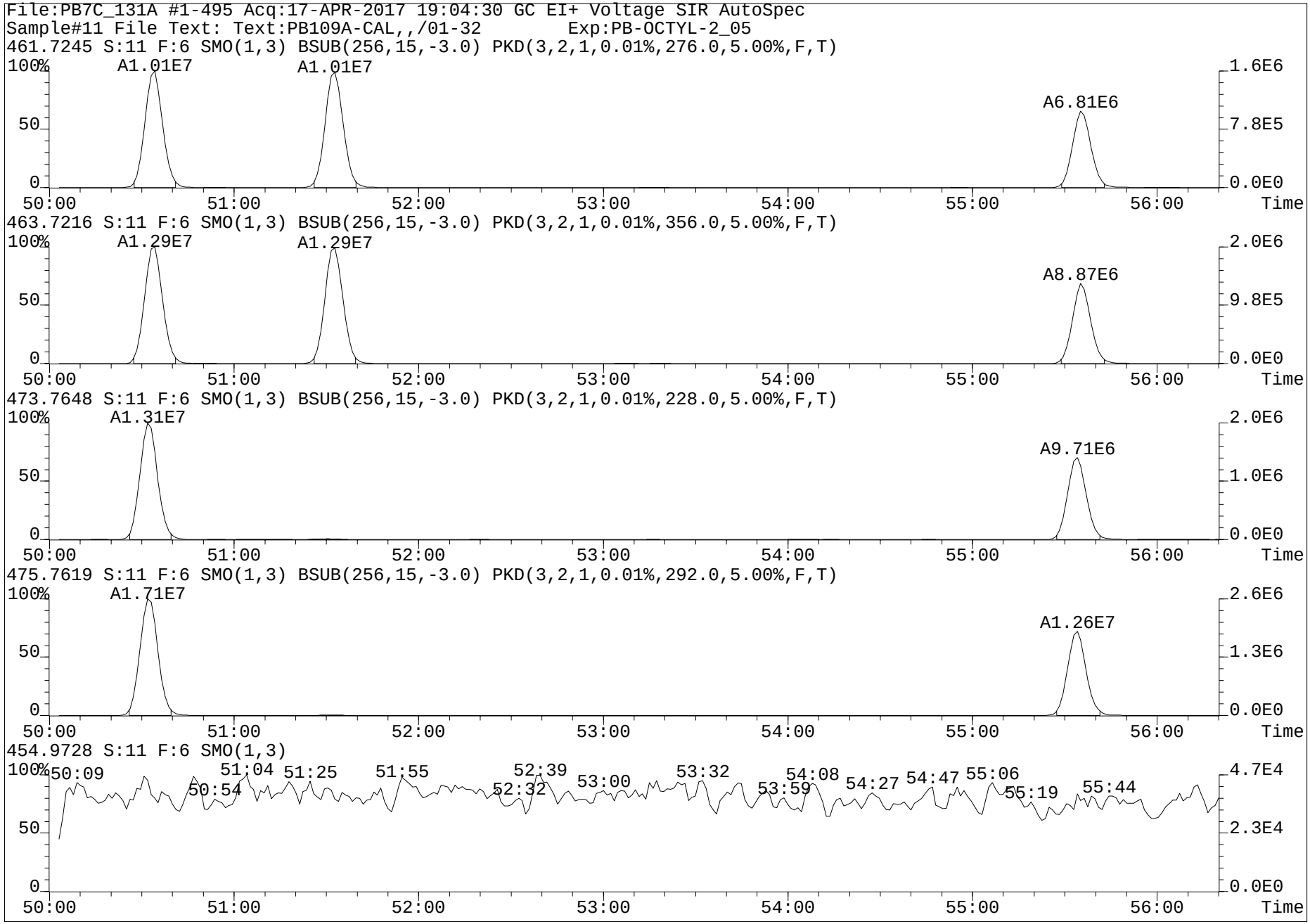

File:PB7C_131A #1-741 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
359.8415 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,49652.0,5.00%,F,T)
A3.01E7
A3.26E7
A2.56E7
A2.21E7
A2.37E7
A1.50E7
A1.09E7
A1.02E7
A1.48E7
A1.10E7
A1.47E7
A1.32E7
A1.13E7
361.8385 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,37836.0,5.00%,F,T)
A2.45E7
A2.73E7
A2.03E7
A2.05E7
A1.74E7
A1.90E7
A8.71E6
A1.18E7
A8.81E6
A1.16E7
A1.06E7
A8.81E6
371.8817 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1004.0,5.00%,F,T)
A3.71E7
A4.44E7
A2.03E7
A2.23E7
A2.19E7
373.8788 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,280.0,5.00%,F,T)
A2.92E7
A3.53E7
A1.62E7
A1.82E7
A1.72E7
354.9792 S:11 F:5 SMO(1,3)
36:09
36:50
37:34
38:39
37:12
39:44
40:39
41:21
42:04
42:45
43:26
43:13
44:34
44:18
45:00
46:07
46:55
47:57
48:47
100%
50
0
4.8E6
2.4E6
0.0E0
3.9E6
1.9E6
5.8E6
2.9E6
4.6E6
2.3E6
6.4E4
3.2E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

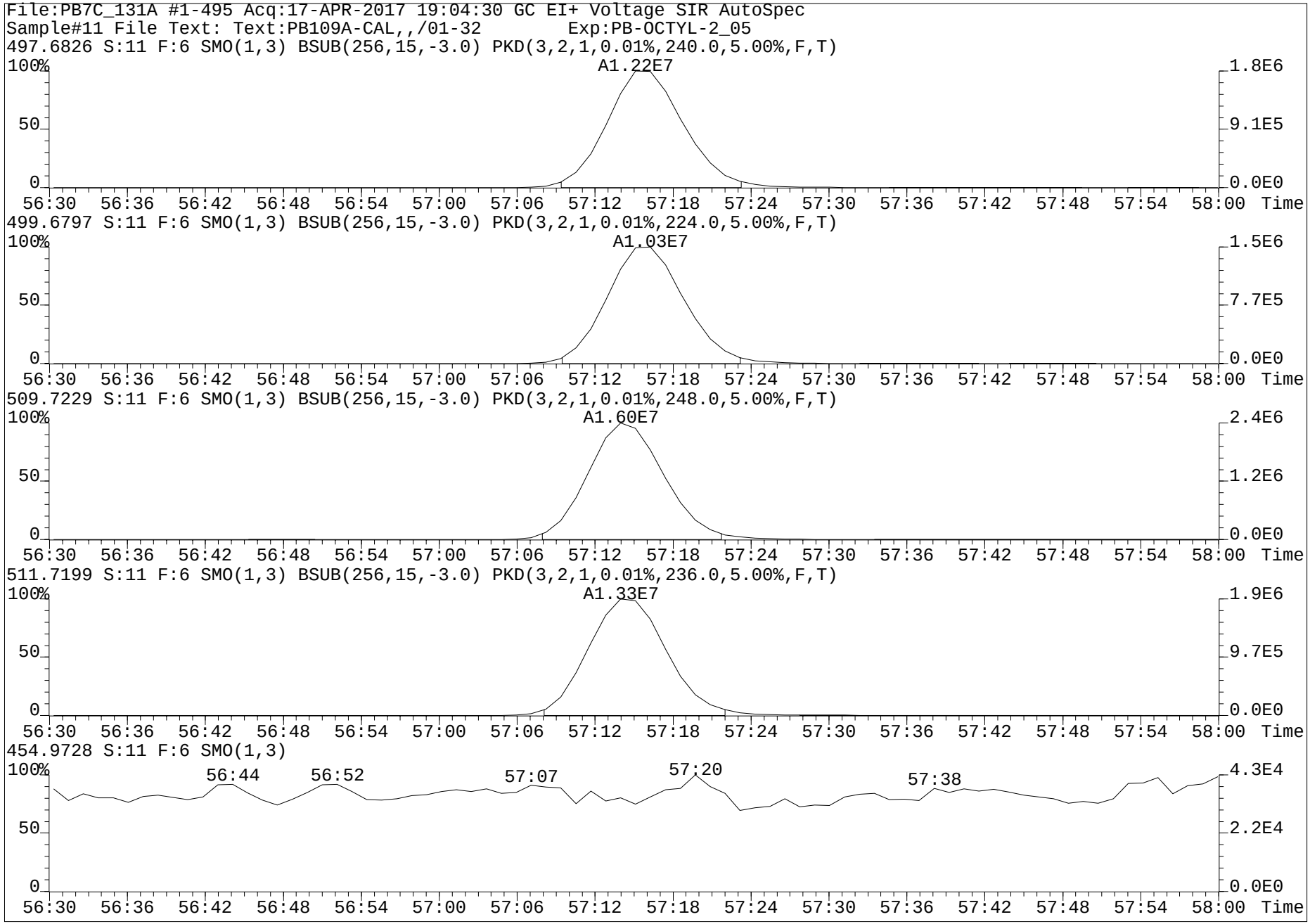

File:PB7C_131A #1-741 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,476.0,5.00%,F,T)
A1.31E7
A1.24E7
A8.55E6
A9.07E6
A1.02E7
A1.57E7
A8.37E6
A1.91E7
A1.03E7
A6.78E6
A1.11E7
395.7995 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,328.0,5.00%,F,T)
A1.28E7
A1.19E7
A8.41E6
A9.20E6
A1.00E7
A1.50E7
A8.35E6
A1.85E7
A1.01E7
A6.64E6
A1.08E7
405.8425 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,268.0,5.00%,F,T)
A2.75E7
A1.77E7
A1.76E7
A1.31E7
407.8398 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,252.0,5.00%,F,T)
A2.63E7
A1.67E7
A1.67E7
A1.23E7
354.9792 S:11 F:5 SMO(1,3)
36:09
36:50
37:34
37:12
38:39
39:44
40:39
41:21
42:04
42:45
43:26
43:13
43:34
44:18
45:00
46:07
46:55
47:57
48:47
100%
50
0
2.3E6
1.1E6
0.0E0
2.2E6
4.3E6
2.1E6
4.1E6
6.4E4
3.2E4
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
49:00
Time

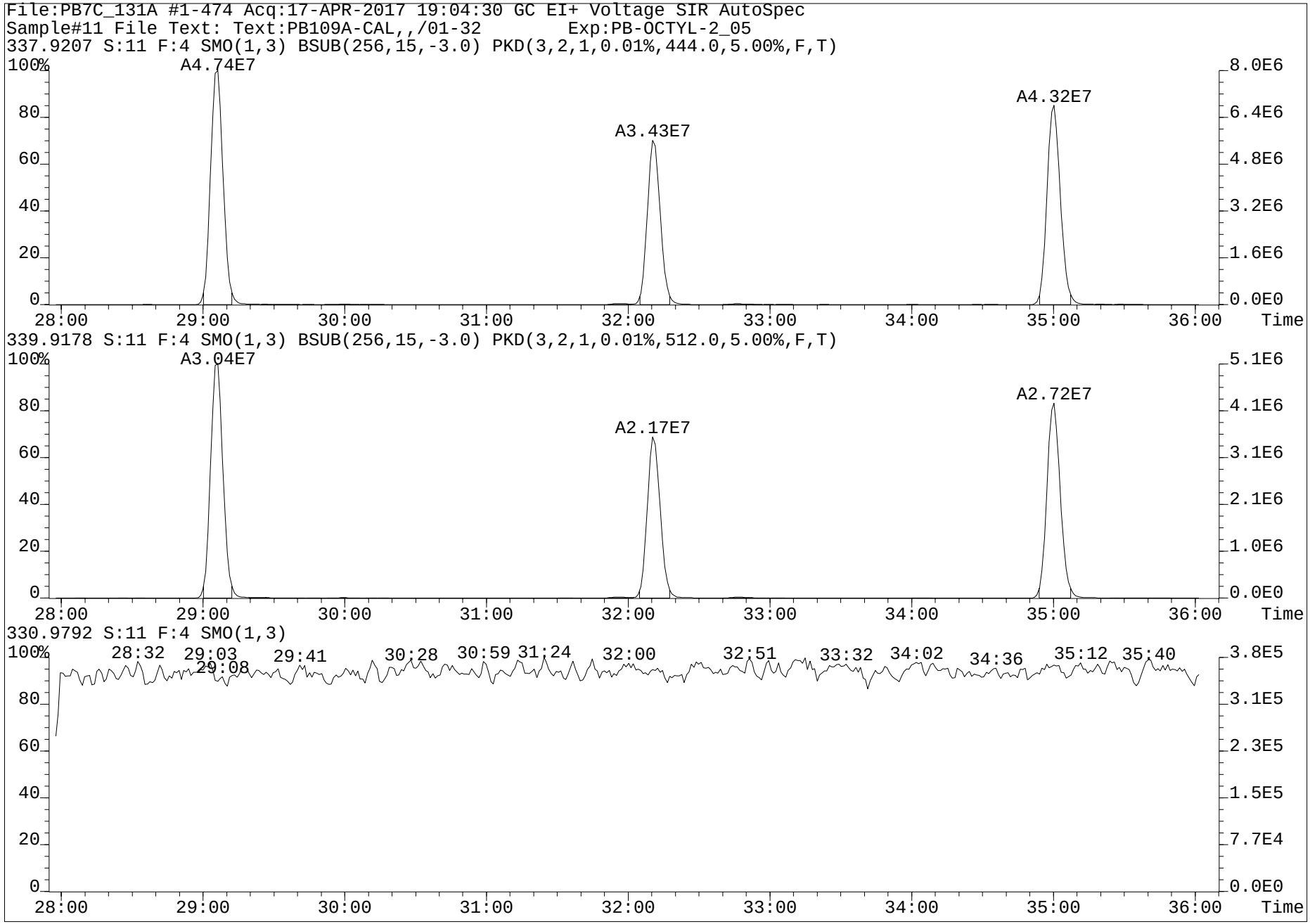

File:PB7C_131A #1-495 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
393.8025 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1232.0,5.00%,F,T)
A8.10E6
A1.95E6
A7.94E5
A1.45E6
395.7995 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,636.0,5.00%,F,T)
A7.86E6
A1.15E6
A7.33E5
A9.60E5
405.8428 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,936.0,5.00%,F,T)
A1.64E7
A2.66E6
407.8398 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,492.0,5.00%,F,T)
A1.59E7
A1.44E6
454.9728 S:11 F:6 SMO(1,3)
50:22
50:47
50:54
51:04
51:18
51:25
51:48
51:55
52:07
100%
50
0
50:12
50:24
50:36
50:48
51:00
51:12
51:24
51:36
51:48
52:00
52:12
Time
1.2E6
5.9E5
0.0E0
5.8E5
2.4E6
1.2E6
2.3E6
1.1E6
4.7E4
2.3E4


File:PB7C_131A #1-741 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.53E7
A1.48E7
A1.47E7
A1.87E7
A2.05E7
A1.09E7
429.7606 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,216.0,5.00%,F,T)
A1.74E7
A1.60E7
A1.61E7
A1.79E7
A2.25E7
A1.15E7
439.8038 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,228.0,5.00%,F,T)
A2.13E7
441.8008 S:11 F:5 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,236.0,5.00%,F,T)
A2.27E7
354.9792 S:11 F:5 SMO(1,3)
43:19
43:26
43:56
44:18
45:00
45:42
46:07
46:55
47:57
48:29
48:40
49:10
49:39
100%
50
0
43:00
44:00
45:00
46:00
47:00
48:00
49:00
50:00
Time
2.8E6
1.4E6
0.0E0
3.0E6
1.5E6
3.4E6
1.7E6
3.6E6
1.8E6
6.2E4
3.1E4


File:PB7C_131A #1-495 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
427.7635 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1004.0,5.00%,F,T)
A8.41E6
A8.78E6
A9.96E6
A5.97E5
429.7606 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,836.0,5.00%,F,T)
A9.49E6
A9.71E6
A1.14E7
A6.95E5
439.8038 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,240.0,5.00%,F,T)
A1.03E7
A1.41E7
441.8008 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,1112.0,5.00%,F,T)
A1.16E7
A1.57E7
454.9728 S:11 F:6 SMO(1,3)
50:09
50:54
51:04
51:25
51:55
52:32
52:39
53:00
53:32
53:59
54:08
54:27
54:47
55:06
55:19
55:44
100%
50
0
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time
1.5E6
7.3E5
0.0E0
1.7E6
8.4E5
2.1E6
1.0E6
2.3E6
1.2E6
4.7E4
2.3E4


File:PB7C_131A #1-495 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
461.7245 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,276.0,5.00%,F,T)
A1.01E7
A1.01E7
A6.81E6
463.7216 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,356.0,5.00%,F,T)
A1.29E7
A1.29E7
A8.87E6
473.7648 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,228.0,5.00%,F,T)
A1.31E7
A9.71E6
475.7619 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,292.0,5.00%,F,T)
A1.71E7
A1.26E7
454.9728 S:11 F:6 SMO(1,3)
50:09
50:54
51:04
51:25
51:55
52:32
52:39
53:00
53:32
53:59
54:08
54:27
54:47
55:06
55:19
55:44
100%
50
0
1.6E6
7.8E5
0.0E0
2.0E6
9.8E5
2.6E6
1.3E6
4.7E4
2.3E4
50:00
51:00
52:00
53:00
54:00
55:00
56:00
Time


File:PB7C_131A #1-495 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
497.6826 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,240.0,5.00%,F,T)
A1.22E7
499.6797 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,224.0,5.00%,F,T)
A1.03E7
509.7229 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,248.0,5.00%,F,T)
A1.60E7
511.7199 S:11 F:6 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,236.0,5.00%,F,T)
A1.33E7
454.9728 S:11 F:6 SMO(1,3)
56:44
56:52
57:07
57:20
57:38
100%
50
0
56:30 56:36 56:42 56:48 56:54 57:00 57:06 57:12 57:18 57:24 57:30 57:36 57:42 57:48 57:54 58:00 Time
1.8E6
9.1E5
0.0E0
1.5E6
7.7E5
2.4E6
1.2E6
1.9E6
9.7E5
4.3E4
2.2E4


File:PB7C_131A #1-474 Acq:17-APR-2017 19:04:30 GC EI+ Voltage SIR AutoSpec
Sample#11 File Text: Text:PB109A-CAL,,/01-32 Exp:PB-OCTYL-2_05
337.9207 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,444.0,5.00%,F,T)
A4.74E7
A3.43E7
A4.32E7
339.9178 S:11 F:4 SMO(1,3) BSUB(256,15,-3.0) PKD(3,2,1,0.01%,512.0,5.00%,F,T)
A3.04E7
A2.17E7
A2.72E7
330.9792 S:11 F:4 SMO(1,3)
28:32 29:03 29:08 29:41 30:28 30:59 31:24 32:00 32:51 33:32 34:02 34:36 35:12 35:40
Time

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| BFR | BTBPE | SGS AXYS MLA-033 | MLA-033 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | DBDPE | SGS AXYS MLA-033 | MLA-033 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | HBB | SGS AXYS MLA-033 | MLA-033 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PBEB | SGS AXYS MLA-033 | MLA-033 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| BPA and MPE | 4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-(3-carboxypropyl) phthalate (MCPP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-2-ethylhexyl phthalate (MEHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-benzyl phthalate (MBzP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-butyl phthalate (MBP) (n + iso) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-cyclohexyl phthalate (MCHP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-ethyl phthalate (MEP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-iso-nonyl phthalate (MiNP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Mono-methyl phthalate (MMP) | SGS AXYS MLA-059 | MLA-059 | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| FTS | 4:2 fluorotelomer sulfonate (4:2 FTS) | SGS AXYS MLA-081 | MLA-081 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-089 | MLA-089 | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | | |
| | 6:2 fluorotelomer sulfonate (6:2 FTS) | SGS AXYS MLA-081 | MLA-081 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-089 | MLA-089 | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | | |
| | 8:2 fluorotelomer sulfonate (8:2 FTS) | SGS AXYS MLA-081 | MLA-081 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-089 | MLA-089 | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | | |
| HBCDD | alpha-hexabromocyclododecane (a-HBCDD) | SGS AXYS MLA-070 | MLA-070 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | beta-hexabromocyclododecane (b-HBCDD) | SGS AXYS MLA-070 | MLA-070 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | gamma-hexabromocyclododecane (g-HBCDD) | SGS AXYS MLA-070 | MLA-070 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OC Pesticides | 2,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | Y | | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | Y | | Y | | | | | | | | |
| | 2,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | Y | | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | Y | | Y | | | | | | | | |
| | 2,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | Y | | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | Y | | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | Y | | Y | | | | | | | | |
| | 4,4'-DDD | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | 4,4'-DDE | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | 4,4'-DDT | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Aldrin | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Alpha-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Beta-HCH | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Chlordane, technical | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | Y | | | Y | Y | | Y | Y |
| | | EPA 1699 | MLA-028 | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | cis-Chlordane (alpha-Chlordane) | EPA 8270 | MLA-007 | | | | | Y | | | Y | | Y | Y | Y | | | | | | | | | | Y | | | Y | | | Y | Y |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | cis-Nonachlor | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | Y | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | Y | | Y | | | | | | | |
| | Delta-HCH | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8081 | MLA-007 | | | | | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Dieldrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Endosulphan I | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y |
| | Endosulphan II | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y |

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| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | Y | | Y | | | | | | Y | | | Y | | | | | | Y | |
| | Endosulphan sulphate | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Endrin | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Endrin aldehyde | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | | | | | | | | Y | | Y | | | | | | | Y | |
| | Endrin ketone | EPA 8081 | MLA-007 | | | | | Y | | | Y | | Y | | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Gamma-HCH (Lindane) | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Heptachlor | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Heptachlor epoxide | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Hexachlorobenzene | EPA 1625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | | | | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Methoxychlor | EPA 608 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | | | Y | |
| | | EPA 8081 | MLA-007 | | | | Y | Y | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Mirex | EPA 8270 | MLA-007 | | | | | Y | | | Y | | Y | | Y | | | | | | | | | | Y | | | | Y | Y | | Y | Y | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Oxychlordane | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | Y | | | | | | | | |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | Y | | Y | | | | | | | | |
| | Toxaphene | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | trans-Chlordane (gamma-Chlordane) | EPA 8270 | MLA-007 | | | | | Y | | | Y | | Y | Y | Y | | | | | | | | | | Y | | | Y | | | Y | Y | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | trans-Nonachlor | EPA 8270 | MLA-007 | | | | | Y | | | | | Y | | | | | | | | | | | | Y | | | | | | | | |
| | | EPA 1699 | MLA-028 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-028 | MLA-028 | | Y | Y | | Y | | | | | Y | | Y | Y | | | | | | | Y | | Y | | | | | Y | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | Y | Y | | Y | | | | | | | | Y | | | | | | | | | Y | | | | | | | | |
| PAH | 1,2,6-Trimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1,2-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1,4,6,7-Tetramethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1,7-Dimethylfluorene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1,7-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1,8-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1-Methylchrysene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1-Methylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 1-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2,3,5-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2,3,6-Trimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2,4-Dimethyldibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2,6-Dimethylnaphthalene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2/3-Methyldibenzothiophenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2-Methylanthracene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2-Methylfluorene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2-methylnaphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | | | Y | | | | | | | | | | | | | | Y | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | | | | | | | | Y | | | | | | | | | Y | |
| | 2-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 3,6-Dimethylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 3-Methylfluoranthene/ Benzo(a)fluorene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 3-Methylphenanthrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 5,9-Dimethylchrysene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 5/6-Methylchrysenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 7-Methylbenzo(a)pyrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 9/4-Methylphenanthrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Acenaphthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Acenaphthylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |

# Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Benz[a]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Benzo[a]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Benzo[b]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | Y | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Benzo[e]pyrene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | Benzo[ghi]perylene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Benzo[j/k]fluoranthenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Benzo[k]fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | | | Y | | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Biphenyl | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Acenaphthenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Benz(a)anthracenes/chrysenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C1-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Benzofluoranthenes/ Benzopyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Biphenyls | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C2-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Fluorenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C3-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C4-Benz(a)anthracenes/Chrysenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C4-Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C4-Fluoranthenes/Pyrenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C4-Naphthalenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | C4-Phenanthrenes/Anthracenes | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Chrysene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | Y | Y | | | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | Dibenz[ah]anthracene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |

# Accreditation Scope

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Dibenzo[ah]anthracene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | Y | |
| | Dibenzothiophene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Fluoranthene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Fluorene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Indeno[1,2,3-cd]pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Naphthalene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Perylene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Phenanthrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Pyrene | EPA 1625 | MLA-021 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | |
| | | EPA 8270 | MLA-021 | | | | | Y | Y | | | Y | Y | | | Y | Y | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-021 | MLA-021 | | | Y | | | Y | | | | | | | | | | | | | | | Y | | Y | | | | | | | Y | |
| | Retene | SGS AXYS MLA-021 | MLA-021 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| PBDPE | BDE 10 2,6-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 100 2,2',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 105 2,3,3',4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 11 3,3'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 116 2,3,4,5,6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 119 2,3',4,4',6-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 12 3,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 126 3,3',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 13 3,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 140 2,2',3,4,4',6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 15 4,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 153 2,2',4,4',5,5'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 154 2,2',4,4',5',6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |

## Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | BDE 155 2,2',4,4',6,6'-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 166 2,3,4,4',5,6-hexabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 17 2,2',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 209 Decabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 25 2,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 28 2,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 30 2,4,6-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 35 3,3',4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 37 3,4,4'-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 47 2,2',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 49 2,2',4,5'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 66 2,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 7 2,4-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 75 2,4,4',6-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 77 3,3',4,4'-tetrabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 8 2,4'-dibromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 85 2,2',3,4,4'-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE 99 2,2',4,4',5-pentabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE-183 2,2',3,4,4',5',6-heptabromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | BDE-33 2',3,4-tribromodiphenylether | EPA 1614 | MLA-033 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | |
| | | SGS AXYS MLA-033 | MLA-033 | | Y | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| PCB Aroclors | PCB Aroclor 1016 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1016/1242 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB Aroclor 1221 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1232 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1242 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1248 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1254 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1260 | EPA 1668 | MLA-010 | | | | | Y | | | | | | Y | Y | | | | | | | | | | Y | | | | | | | Y | Y | |
| | | EPA 625 | MLA-007 | | | | | | | | | | | | | | | | | | | | | Y | Y | | | Y | Y | | | Y | Y | |
| | | EPA 8270 | MLA-007 | | | | Y | Y | | | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | Y | | | | | | | Y | | | | | | | | | | Y | | | | | | | Y | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | Y | | | | | | | Y | Y | | | | | | | Y | | Y | | | | | | | Y | |
| | PCB Aroclor 1268 | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| PCB congeners | PCB 1 2-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 10 2,6-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 100 2,2',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 101 2,2',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 101/90/89 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 102 2,2',4,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 103 2,2',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 104 2,2',4,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 105 2,3,3',4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 105/127 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 106 2,3,3',4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 107 2,3,3',4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 107/109 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 108 2,3,3',4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 109 2,3,3',4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 11 3,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 110 2,3,3',4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 111 2,3,3',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 111/117 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 112 2,3,3',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 113 2,3,3',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 114 2,3,4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 115 2,3,4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 116 2,3,4,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 117 2,3,4',5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 118 2,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 118/106 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 119 2,3',4,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 12 3,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 12/13 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | PCB 120 2,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 121 2,3',4,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 122 2,3,3',4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 123 2,3',4,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 124 2,3',4',5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 125 2,3',4',5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 126 3,3',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | |
| | PCB 127 3,3',4,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | |
| | PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | |
| | PCB 13 3,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | |
| | PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 131/142 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | | |
| | PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | | YD | |
| | PCB 132/168 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 134 2,2',3,3',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 134/143 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 138/163/164 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 14 3,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 144/135 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 149/139 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 15 4,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 158/160 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 16 2,2',3-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 16/32 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 17 2,2',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 170/190 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 172 2,2',3,3',4,5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 172/192 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 173 2,2',3,3',4,5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 174 2,2',3,3',4,5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 174/181 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 177 2,2',3,3',4,5',6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 178 2,2',3,3',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 179 2,2',3,3',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 18 2,2',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |

## Accreditation Scope

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file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 187/182 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 19 2,2',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 196/203 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 2 3-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 20 2,3,3'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 209 Decachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 21 2,3,4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |

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SGS AXYS Analy ical Services Ltd.
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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | PCB 22 2,3,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 23 2,3,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 23/34 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 24 2,3,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 24/27 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 25 2,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 26 2,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 27 2,3',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 28 2,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 29 2,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 3 4-Chlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 30 2,4,6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 31 2,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 32 2,4',6-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 33 2,3',4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 33/20/21 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 34 2,3',5'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 35 3,3',4-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 36 3,3',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 37 3,4,4'-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 38 3,4,5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 39 3,4',5-Trichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 4 2,2'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 4/10 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 40 2,2',3,3'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 41 2,2',3,4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 41/71/64/68 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 42 2,2',3,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 42/59 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 43 2,2',3,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 44 2,2',3,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 45 2,2',3,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 46 2,2',3,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 47 2,2',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 47/48/75 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 48 2,2',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 49 2,2',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 49/43 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 5 2,3-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 50 2,2',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 51 2,2',4,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 52 2,2',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 52/73 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 53 2,2',5,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 54 2,2',6,6'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 55 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 56 2,3,3',4-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 56/60 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 57 2,3,3',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 58 2,3,3',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 59 2,3,3',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 6 2,3'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 60 2,3,4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 61 2,3,4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 62 2,3,4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 62/65 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 63 2,3,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 64 2,3,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 65 2,3,5,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | PCB 66 2,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 66/80 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 67 2,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 68 2,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 69 2,3',4,6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 7 2,4-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 7/9 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 70 2,3',4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 70/76 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 71 2,3',4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 72 2,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 73 2,3',5',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 74 2,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB 74/61 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 75 2,4,4',6-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 76 2,3',4',5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 77 3,3',4,4'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 78 3,3',4,5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 79 3,3',4,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 8 2,4'-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 8/5 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 80 3,3',5,5'-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |

# Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 81 3,4,4',5-Tetrachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 82 2,2',3,3',4-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 83 2,2',3,3',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 83/108 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 84 2,2',3,3',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 85 2,2',3,4,4'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 85/120 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 86 2,2',3,4,5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 87 2,2',3,4,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 87/115/116 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 88 2,2',3,4,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 88/121 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 89 2,2',3,4,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 9 2,5-Dichlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 90 2,2',3,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 91 2,2',3,4',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 92 2,2',3,5,5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 93 2,2',3,5,6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 94 2,2',3,5,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 95 2,2',3,5',6-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 95/93 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | PCB 96 2,2',3,6,6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 97 2,2',3,4',5'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 97/86 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | PCB 98 2,2',3,4',6'-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | PCB 98/102 | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | PCB 99 2,2',4,4',5-Pentachlorobiphenyl | EPA 1668 | MLA-010 | | | | | Y | | Y | Y | Y | Y | Y | YD | | | | | | YD | | | | Y | | Y | Y | Y | Y | | YD | Y |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | Y | | | | | | | YD | Y | | | | | YD | | Y | | Y | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | | SGS AXYS MLA-901 | MLA-901 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB congeners, total | EPA 1668 | MLA-010 | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | | | | |
| | Sum - Dichlorobiphenyls (BZ-12-+ BZ-13) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Heptachlorobiphenyls (BZ-171 + BZ-173) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Heptachlorobiphenyls (BZ-180 + BZ-193) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Heptachlorobiphenyls (BZ-183 + BZ-185) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-128 + BZ-166) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-129 + BZ-138 + BZ-160 + BZ-163) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-134 + BZ-143) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-135 + BZ-151 + BZ-154) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-139 + BZ-140) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-147 + BZ-149) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-153 + BZ-168) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Hexachlorobiphenyls (BZ-156 + BZ-157) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Pentachlorobiphenyls (BZ-107 + BZ-124) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Pentachlorobiphenyls (BZ-108 + BZ-124) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Pentachlorobiphenyls (BZ-110 + BZ-115) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Pentachlorobiphenyls (BZ-83 + BZ-99) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | Sum - Pentachlorobiphenyls (BZ-85 + BZ-116 + BZ-117) | EPA 1668 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ 97 + BZ-109 + BZ-119 + BZ-125) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ-97 + BZ-108 + BZ-119 +BZ-125) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Pentachlorobiphenyls (BZ-88 + BZ-91) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Pentachlorobiphenyls (BZ-90 + BZ-101 + BZ-113) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Pentachlorobiphenyls (BZ-93 + BZ-95 + BZ-98 + BZ-100 + BZ-102) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-40 + BZ-41 + BZ-71) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-44 + BZ-47 + BZ-65) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-45 + BZ-51) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-49 + BZ-69) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-50 + BZ-53) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-59 + BZ-62 + BZ-75) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Tetrachlorobiphenyls (BZ-61 + BZ-70 + BZ-74 + BZ-76) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Trichlorobiphenyls (BZ-18 + BZ-30) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Trichlorobiphenyls (BZ-20 + BZ-28) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Trichlorobiphenyls (BZ-21 + BZ-33) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Sum - Trichlorobiphenyls (BZ-26 + BZ-29) | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | Total Dichlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | YD |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | |
| | Total Heptachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | YD |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | |
| | Total Hexachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | YD |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | |
| | Total Monochlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | YD |
| | Total Nonachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | YD |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | YD |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Total Octachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | Total PCBs | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-010 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | Total Pentachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | Total Polychlorinated biphenyls | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | Total Tetrachlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| | Total Trichlorobiphenyls | EPA 1668 | MLA-010 | | | | | | | | | | | | YD | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8270 | MLA-007 | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-010 | MLA-010 | | Y | Y | | | | | | | | | YD | Y | | | | | YD | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-007 | MLA-007 | | | Y | | | | | | | | | | Y | | | | | | | Y | | | | | | | | | | |
| PCDDF | 1,2,3,4,6,7,8-HpCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,4,6,7,8-HpCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,4,7,8,9-HpCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,4,7,8-HxCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,4,7,8-HxCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,6,7,8-HxCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,6,7,8-HxCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,7,8,9-HxCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,7,8,9-HxCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,7,8-PeCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 1,2,3,7,8-PeCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 2,3,4,6,7,8-HxCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 2,3,4,7,8-PeCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 2,3,7,8-TCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | 2,3,7,8-TCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | OCDD | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | OCDF | EPA 1613 | MLA-017 | | | | | | | | | | Y | | YD | | | | | | YD | | | Y | Y | | Y | Y | Y | Y | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | Y | Y | | Y | Y | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | Y | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | Y | Y | Y | | Y | | | | | | | YD | Y | Y | | | | YD | | Y | | Y | | | | | | | YD | |
| | Total HpCDD | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total HpCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total HxCDD | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total HxCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total PCDD | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8290 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | Total PCDD+PCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8290 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | Total PCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | EPA 8290 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | | | | | | | | | | YD | |
| | Total PeCDD | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total PeCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |
| | Total TCDD | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | | YD | | | Y | Y | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | | YD | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Total TCDF | EPA 1613 | MLA-017 | | | | | | | | | | | | YD | | | | | YD | | | Y | Y | | | | | | | Y | YD | |
| | | EPA 8290 | MLA-017 | | | | | Y | | Y | | Y | | Y | YD | | Y | | Y | Y | YD | | | | Y | | | | Y | | | YD | |
| | | SGS AXYS MLA-017 | MLA-017 | | | | | Y | | | | | | | YD | | Y | | | | YD | | | | Y | | | | | | | YD | |
| PFC | Perfluorobutanesulfonate (PFBS) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorobutanoate (PFBA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorodecanoate (PFDA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorododecanoate (PFDoA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluoroheptanoate (PFHpA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorohexanesulfonate (PFHxS) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | YD | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorohexanoate (PFHxA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD | |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD | |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | | | | | | | | | |

# Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorononanoate (PFNA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorooctane sulfonamide (PFOSA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorooctanesulfonate (PFOS) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluorooctanoate (PFOA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluoropentanoate (PFPeA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Perfluoroundecanoate (PFUnA) | EPA 537 modified | MLA-041 | | | | | | | | | | | | YD | | | | | | | | | | | | | | | | | | |
| | | | MLA-043 | | | | | | | | | | | | | | | | | | YD | | | | | | | | | | | | |
| | | | MLA-060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YD |
| | | SGS AXYS MLA-060 | MLA-060 | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | YD |
| | | SGS AXYS MLA-041 | MLA-041 | | | Y | | Y | Y | Y | | | | | YD | | | | | | | | | | Y | Y | Y | | | | | | |
| | | SGS AXYS MLA-043 | MLA-043 | | | | | | | | | | | | | Y | Y | Y | Y | | YD | | | | | | | | | | | | |
| | | SGS AXYS MLA-042 | MLA-042 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PPCP | 1,7-Dimethylxanthine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 10-hydroxy-amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 2-hydroxy-ibuprofen | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 4-Epianhydrochlortetracycline (EACTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |

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file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | 4-Epianhydrotetracycline (EATC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 4-Epichlortetracycline (ECTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 4-Epioxytetracycline (EOTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | 4-Epitetracycline (ETC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Acetaminophen | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Albuterol | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Alprazolam | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Amitriptyline | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Amlodipine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Amphetamine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Anhydrochlortetracycline (ACTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Anhydrotetracycline (ATC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Atenolol | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Atorvastatin | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Azithromycin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Benzoylecgonine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Benztropine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Betamethasone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Bisphenol A | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Caffeine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Carbadox | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Carbamazepine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Cefotaxime | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Chlortetracycline (CTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Cimetidine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Ciprofloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Clarithromycin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Clinafloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Clonidine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Cloxacillin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | |

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| | | | | Pulp | Serum | Solids | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Cocaine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Codeine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Cotinine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | DEET (N,N-diethyl-m-toluamide) | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Dehydronifedipine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Demeclocycline | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Desmethyldiltiazem | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Diazepam | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Digoxigenin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Digoxin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Diltiazem | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Diphenhydramine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Doxycycline | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Enalapril | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Enrofloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Erythromycin | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Erythromycin anydrate | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | Flumequine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Fluocinonide | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Fluoxetine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Fluticasone propionate | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Furosemide | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Gemfibrozil | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Glipizide | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Glyburide | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Hydrochlorothiazide | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Hydrocodone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Hydrocortisone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Ibuprofen | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Isochlortetracycline (ICTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Lincomycin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Lomefloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |

# Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Meprobamate | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | |
| | Metformin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Methylprednisolone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Metoprolol | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Miconazole | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Minocycline | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Naproxen | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Norfloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Norfluoxetine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Norgestimate | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Norverapamil | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Ofloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Ormetoprim | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Oxacillin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | [illegible] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Oxycodone | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Oxytetracycline (OTC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Paroxetine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Penicillin G | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Penicillin V | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Prednisolone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Prednisone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Promethazine | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Propoxyphene | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Propranolol | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Ranitidine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Roxithromycin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sarafloxacin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sertraline | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Simvastatin | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sulfachloropyridazine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sulfadiazine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sulfadimethoxine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sulfamerazine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | Y | | | | | | | | | | | |
| | Sulfamethazine | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | | |

# Accreditation Scope

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(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Sulfamethizole | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Sulfamethoxazole | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Sulfanilamide | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Sulfathiazole | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Tetracycline (TC) | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Theophylline | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Thiabendazole | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Trenbolone | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Trenbolone acetate | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Triamterene | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Triclocarban | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Triclosan | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Trimethoprim | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Tylosin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | [illegible] | [illegible] | | | [illegible] | | | | | | | | | | | | | | | | | [illegible] | | | | | | | | | |
| | Valsartan | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Verapamil | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Virginiamycin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| | Warfarin | EPA 1694 | MLA-075 | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | Y | |
| | | SGS AXYS MLA-075 | MLA-075 | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | |
| Targeted Metabolites | 11, 14, 17-eicosatrienoic acid (eicosatrienoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | 11, 14-eicosadienoic acid | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | 3-hydroxytyrosine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Acetylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Acetylornithine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Alanine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | alpha-Aminoadipic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Arginine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Asparagine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Aspartate | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Asymmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Butenylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Butyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Carnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Carnosine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | chenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | cholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Citrulline | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Creatinine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Decadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | decanoic acid (capric acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Decanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Decenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | deoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |

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SGS AXYS Analy ical Services Ltd.
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| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | docosahexaenoic acid (DHA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | docosatetraenoic acid (adrenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Dodecanedioylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Dodecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Dodecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Dopamine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | eicosapentaenoic acid (EPA) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Eicosatetraenoic acid (arachidonic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | eicosatrienoic acid (dihomo-γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Glutaconylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Glutamate | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Glutamine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Glutarylcarnitine (Hydroxyhexanoylcarnitine) | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Glycine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | glycochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | glycocholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | glycodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | hexadecanoic acid (palmitic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Hexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | hexadecenoic acid (palmitoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Hexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hexanoylcarnitine (Fumarylcarnitine) | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hexenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hexose (sum isomers) | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Histamine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Histidine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyhexadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyhexadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyhexadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxylbutyrylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyoctadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyproline | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxypropionylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxysphingomyeline C14:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxysphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxysphingomyeline C22:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxysphingomyeline C22:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxysphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxytetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxytetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Isoleucine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Kynurenine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Leucine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lithocholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Lysine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C14:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C16:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C17:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C18:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C20:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C24:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C26:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |

# Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | lysoPhosphatidylcholine acyl C28:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | lysoPhosphatidylcholine acyl C28:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Methionine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Methioninesulfoxide | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Methylglutarylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Nitrotyrosine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Nonaylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | octadecadienoic acid (linoleic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Octadecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | octadecanoic acid (stearic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Octadecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | octadecatrienoic acid (γ-linolenic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | |
| | Octadecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Octanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Ornithine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phenylalanine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phenylethylamine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C30:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C32:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | [illegible] | [illegible] | [illegible] | | [illegible] | | | | | | | | | | | [illegible] | | | | | | [illegible] | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C34:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C36:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C38:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C40:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C42:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine acyl-alkyl C44:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C24:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C26:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C28:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C30:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | Phosphatidylcholine diacyl C30:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C32:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C34:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C36:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C38:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | [illegible] | [illegible] | [illegible] | | [illegible] | | | | | | | | | | | [illegible] | | | | | | [illegible] | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C40:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:4 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:5 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Phosphatidylcholine diacyl C42:6 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Pimelylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Proline | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Propenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Propionylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Putrescine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sarcosine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Serine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Serotonin | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Spermidine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Spermine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C16:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C16:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C18:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C18:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C20:2 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C22:3 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C24:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C24:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C26:0 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Sphingomyeline C26:1 | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Symmetric dimethylarginine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | Taurine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | taurochenodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |
| | taurocholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | |

## Accreditation Scope

SGS AXYS Analy ical Services Ltd.
(formerly AXYS Analytical Services Ltd.)
file ref.: ACC-101 Rev. 33

| | | | | Pulp | Serum | Solids | | | | | | | | | | Tissue | | | | | | Urine | Water | Water, Non-Potable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Compound Class | Compound | Accredited Method ID | SGS AXYS Method ID | CALA | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE | Maine DOH | ANAB | CALA | Florida DOH | Minnesota DOH | New Jersey DEP | Virginia DGS | ANAB | CALA | CALA | California DPH | Florida DOH | Minnesota DOH | New Jersey DEP | New York DOH | Virginia DGS | Washington DE* | Maine DOH | ANAB | Pennsylvania DEP |
| | taurodeoxycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | taurolithocholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | tauroursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Tetradecadienylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | tetradecanoic acid (myristic acid) | SGS AXYS MLM-001 | MLM-001 | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | |
| | Tetradecanoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Tetradecenoylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Threonine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Tiglylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Total dimethylarginine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Tryptophan | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Tyrosine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | ursodexoycholic acid | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Valerylcarnitine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| | Valine | SGS AXYS MLM-001 | MLM-001 | | Y | | | | | | | | | | | Y | | | | | | Y | | | | | | | | | | | |
| TBBPA | Tetrabromobisphenol A | SGS AXYS MLA-079 | MLA-079 | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note*
Analysis of pesticides and PCBs in non-potable water samples by AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.

**Legend**

| | |
|---|---|
| Y | Accreditation scope |
| YD | Accreditation scope, including US DOD scope |
| BFR | Brominated flame retardants (non-PBDPE) |
| BPA and mPE | Bisphenol A and mono-Phthalate Esters |
| FTS | Fluorotelomer sulfonates |
| HBCDD | Hexabromocyclododecane |
| OC Pesticides | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PBDPE | Polybrominated diphenylethers |
| PCB | Polychlorinated Biphenyls |
| PCDDF | Polychlorinated dibenzodioxins/furans |
| PFC | Perfluorinated Compounds |
| PPCP | Pharmaceutical and Personal Care Products |
| TBBPA | Tetrabromobisphenol A |
| California DPH | California Department of Public Health, Lab ID 2911 (target analytes shown are those approved 2014) |
| Florida DOH | Florida Department of Health, Lab ID E871007, (NELAC Standard) |
| Pennsylvania DEP | Pennsylvania Department of Environmental Protection |
| Minnesota DOH | Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard) |
| New Jersey DEP | New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard) |
| New York DOH | New York Department of Health, Lab ID 11674, (NELAC Standard) |
| Washington DE | Washington Department of Ecology, Lab ID C404 |
| Virginia DGS | Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard) |
| Maine DOH | Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003 |
| CALA | Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard) |
| ANAB | ANSI-ASQ National Accreditation Board, certificate ADE-1861, (ISO/IEC 17025:2005 and US DOD Standards) |

CALA Testing Accreditation No. A 2637

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP Certificate ADE-1861