

(QT Reviewed)

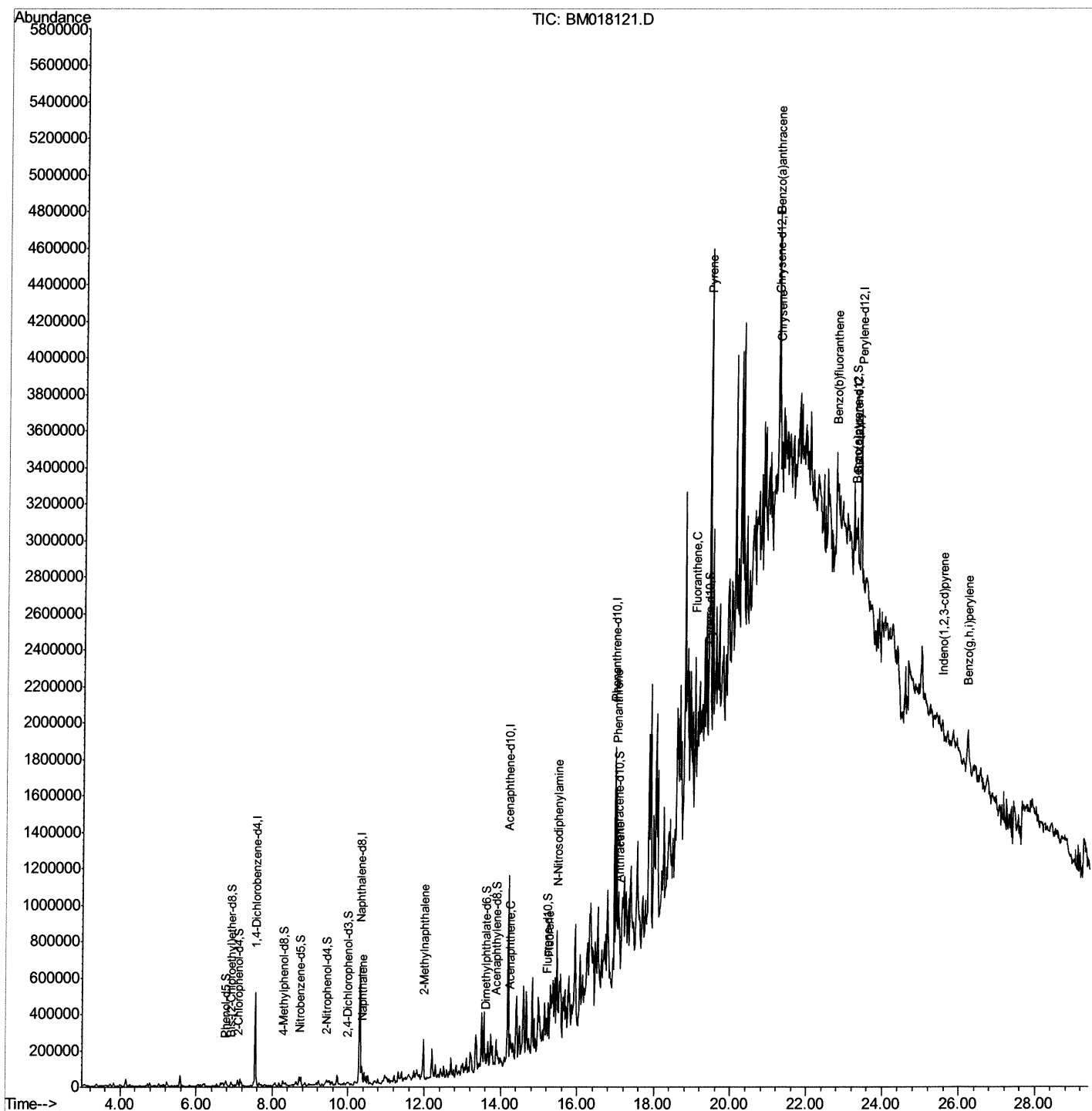
```
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On    : 13 Dec 2018 08:55  
Operator  : JU/SJ  
Sample    : J6171-15 5X  
Misc      :  
ALS Vial  : 29      Sample Multiplier:1
```

**Instrument :**  
BNA\_M  
**ClientSampleId :**  
F9Y25

## Manual Integrations APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 10:22:09 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



## Quantitation Report (Qedit)

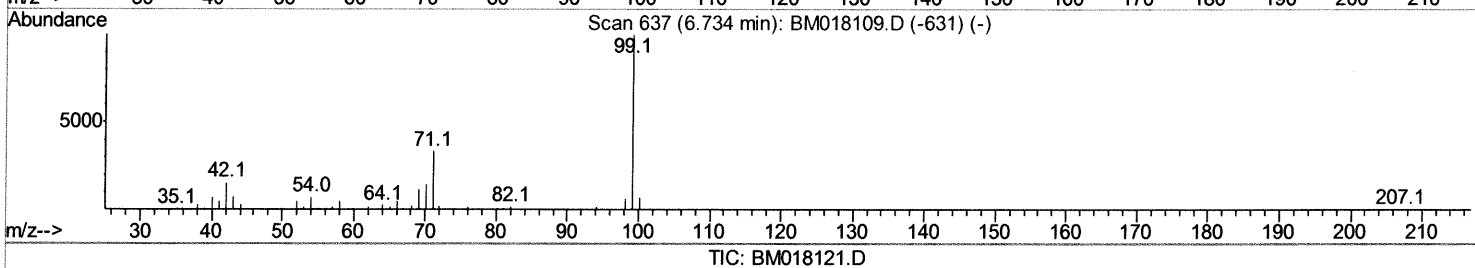
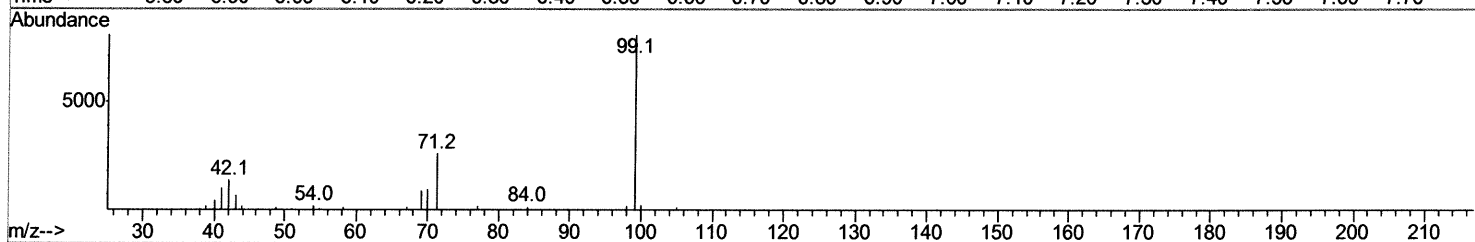
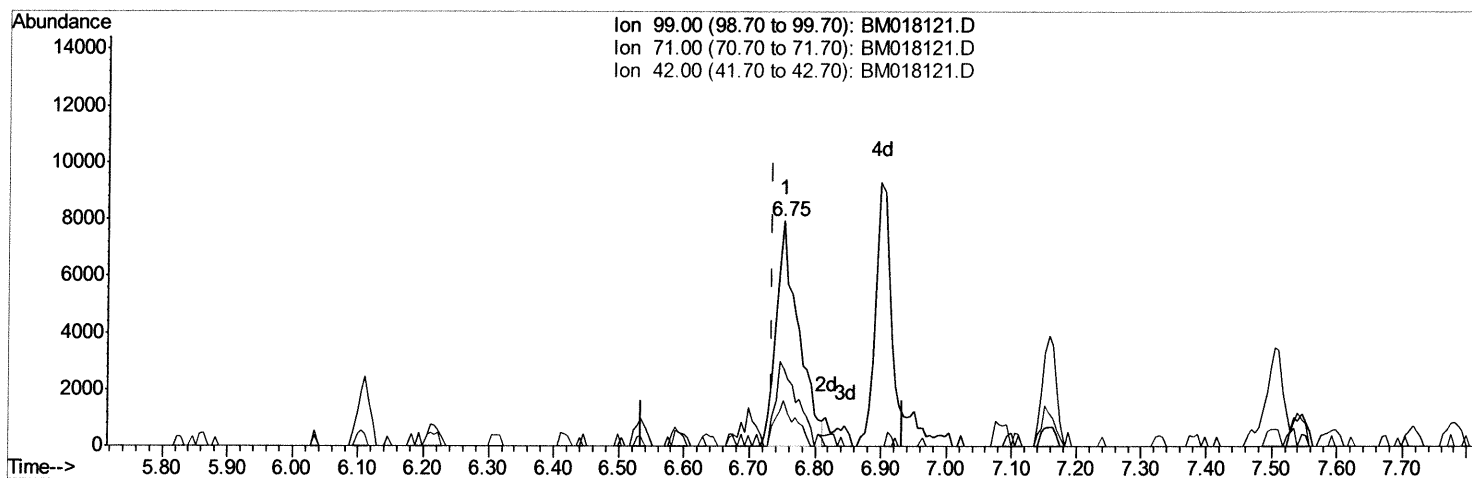
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(5) Phenol-d5 (S)

6.752min (+0.018) 1.36ng/ul

response 18809

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 99.00 | 100   | 100   |
| 71.00 | 37.80 | 34.90 |
| 42.00 | 17.30 | 20.46 |
| 0.00  | 0.00  | 0.00  |

# Quantitation Report (Qedit)

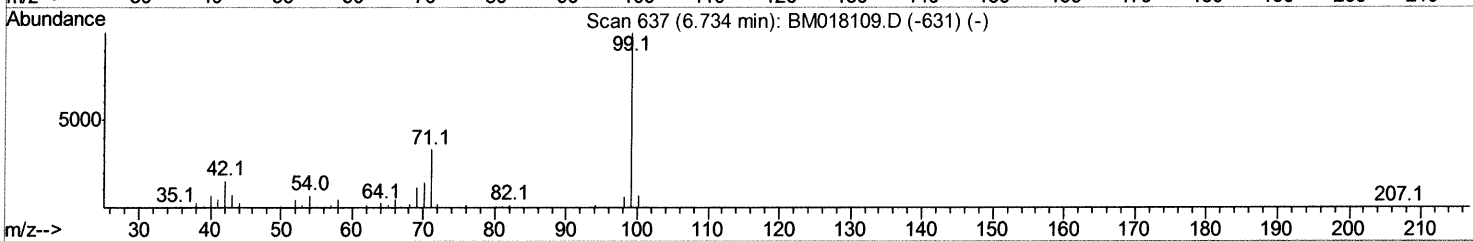
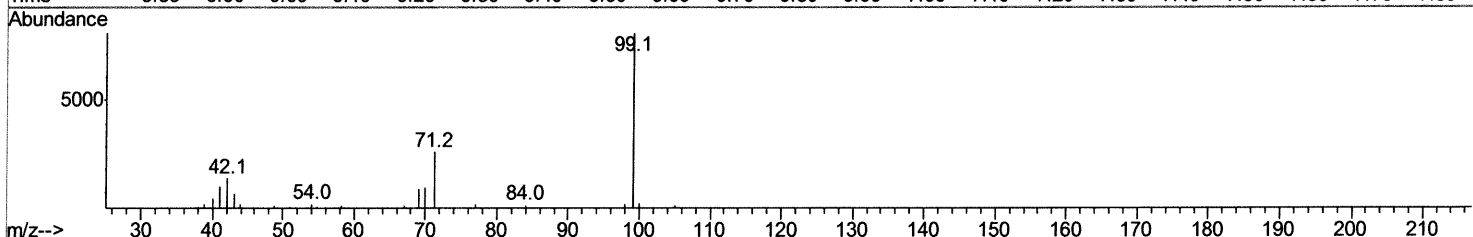
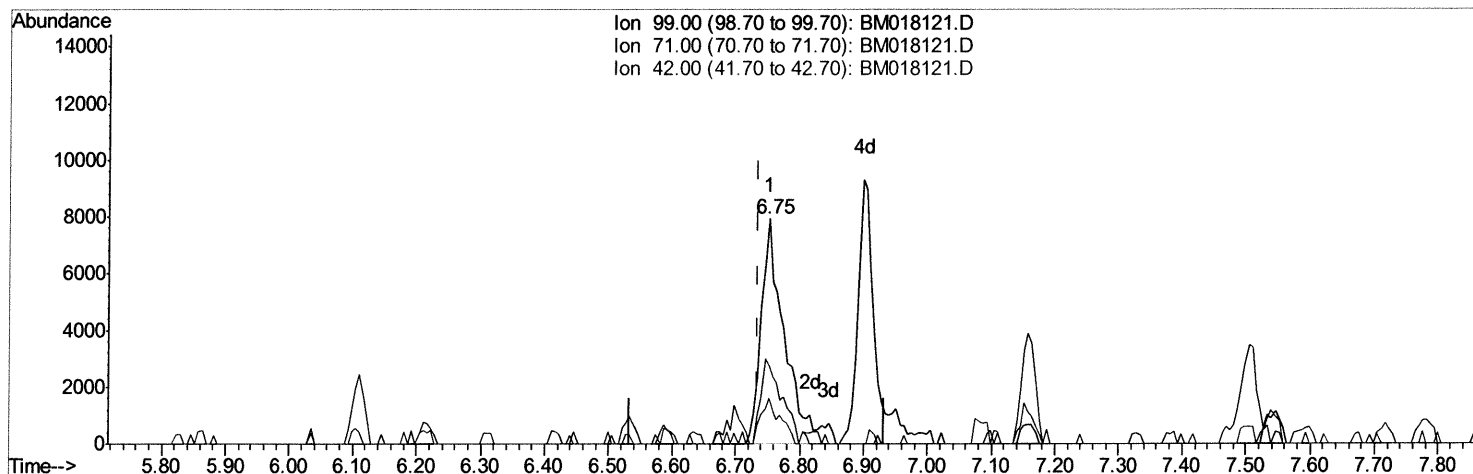
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
 Data File : BM018121.D  
 Acq On : 13 Dec 2018 08:55  
 Operator : JU/SJ  
 Sample : J6171-15 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9Y25

Manual Integrations  
 APPROVED

Sohil  
 12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 13 06:49:34 2018  
 Response via : Initial Calibration



TIC: BM018121.D

(5) Phenol-d5 (S)

6.752min (+0.018) 1.47ng/ul m> SJ 12/13/18

response 20314

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 99.00 | 100   | 100   |
| 71.00 | 37.80 | 34.90 |
| 42.00 | 17.30 | 20.46 |
| 0.00  | 0.00  | 0.00  |

# Quantitation Report (Qedit)

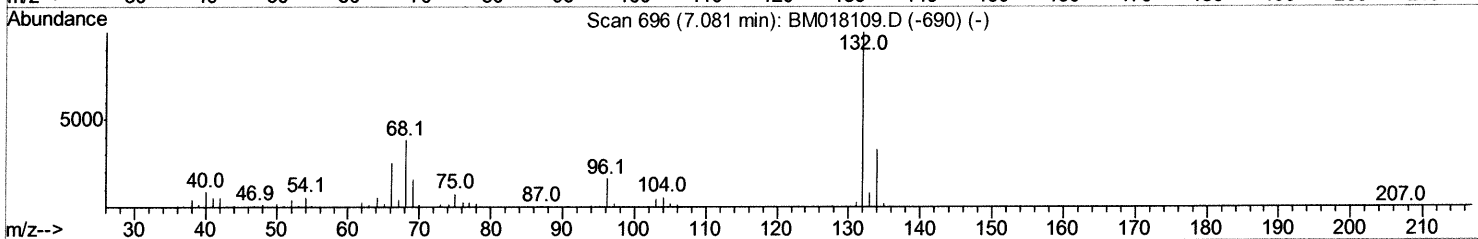
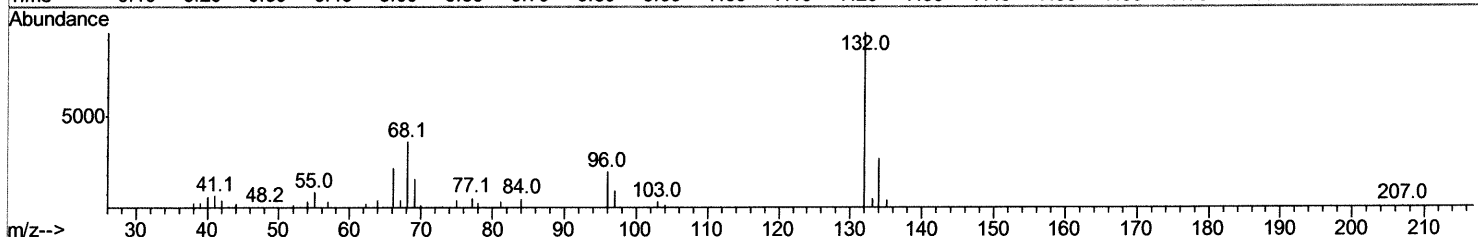
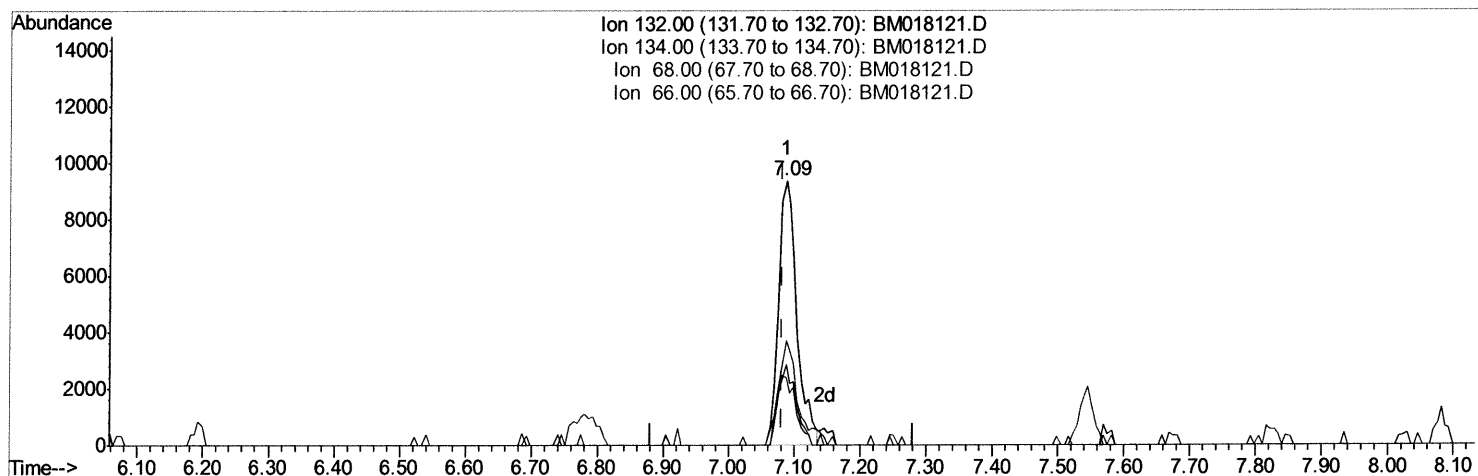
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
 Data File : BM018121.D  
 Acq On : 13 Dec 2018 08:55  
 Operator : JU/SJ  
 Sample : J6171-15 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9Y25

Manual Integrations  
 APPROVED

Sohil  
 12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 13 06:49:34 2018  
 Response via : Initial Calibration



TIC: BM018121.D

(9) 2-Chlorophenol-d4 (S)

7.087min (+0.006) 1.67ng/ul

response 18018

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 132.00 | 100   | 100   |
| 134.00 | 32.60 | 30.67 |
| 68.00  | 40.90 | 39.65 |
| 66.00  | 29.20 | 25.33 |

## Quantitation Report (Qedit)

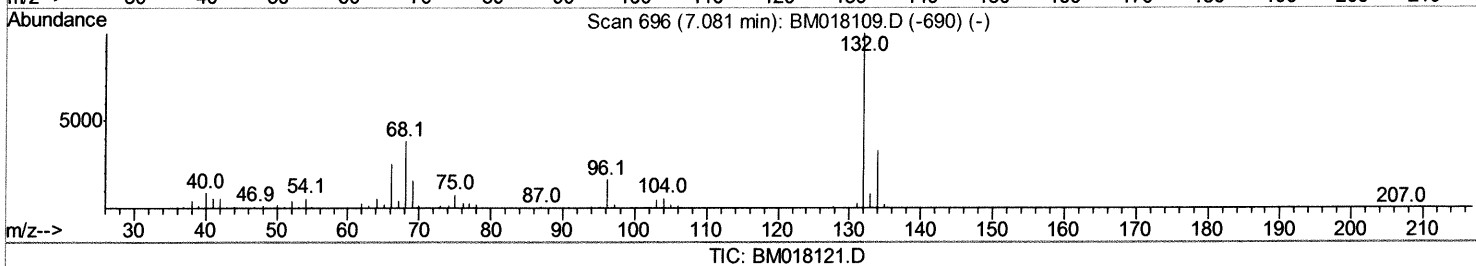
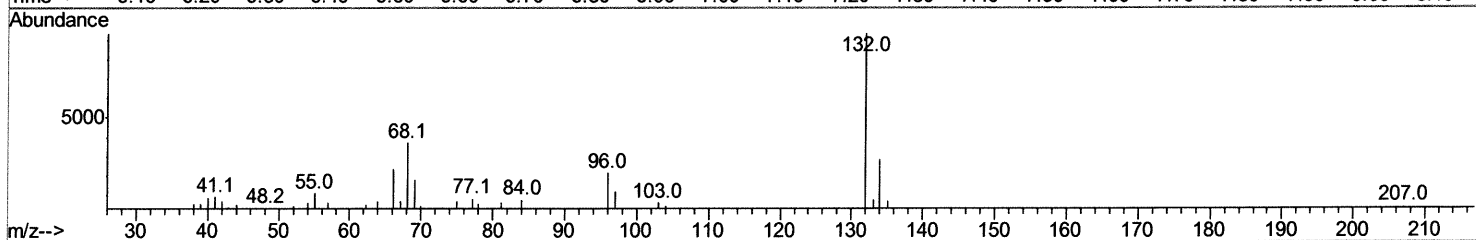
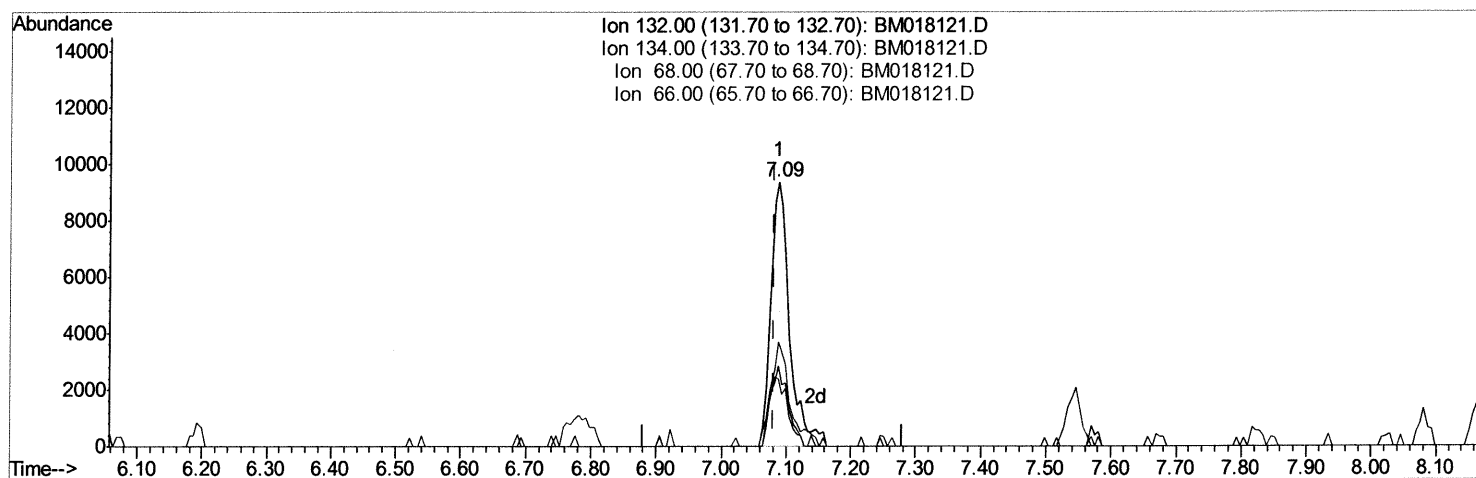
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(9) 2-Chlorophenol-d4 (S)

7.087min (+0.006) 1.73ng/ul m > SJ 12/13/18

response 18739

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 132.00 | 100   | 100   |
| 134.00 | 32.60 | 30.67 |
| 68.00  | 40.90 | 39.65 |
| 66.00  | 29.20 | 25.33 |

## Quantitation Report (Qedit)

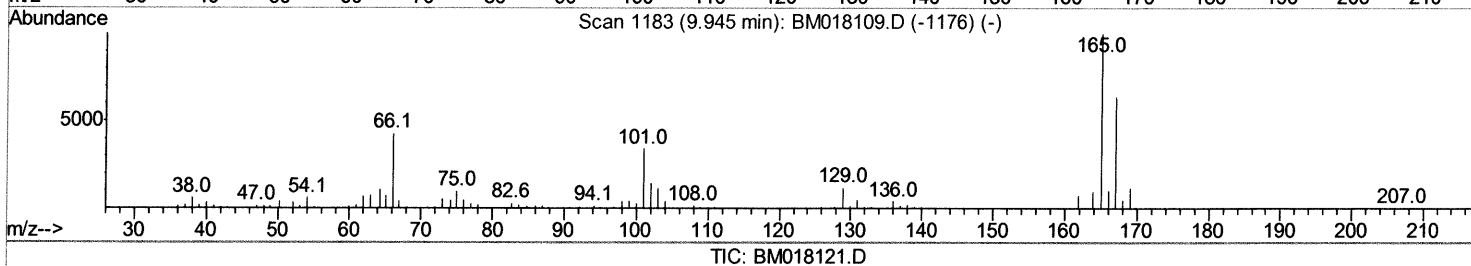
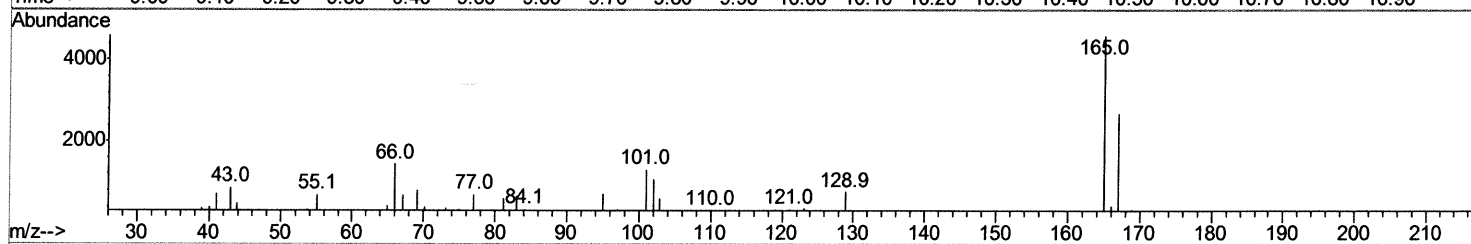
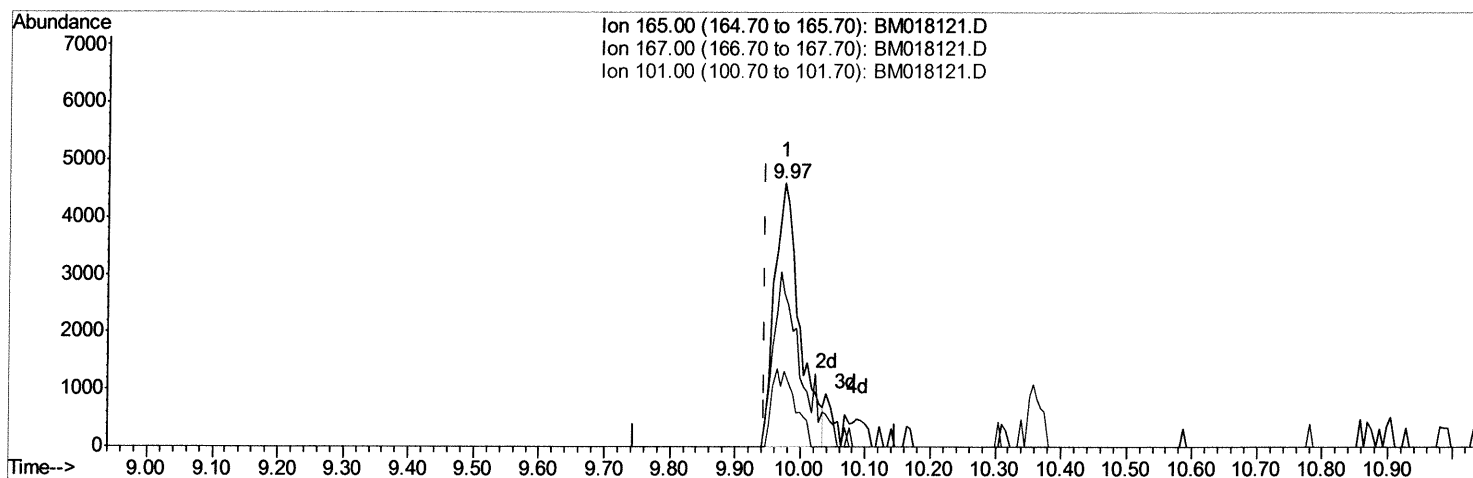
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(26) 2,4-Dichlorophenol-d3 (S)

9.975min (+0.030) 1.30ng/ul

response 12182

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 165.00 | 100   | 100   |
| 167.00 | 65.50 | 58.27 |
| 101.00 | 34.80 | 28.49 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

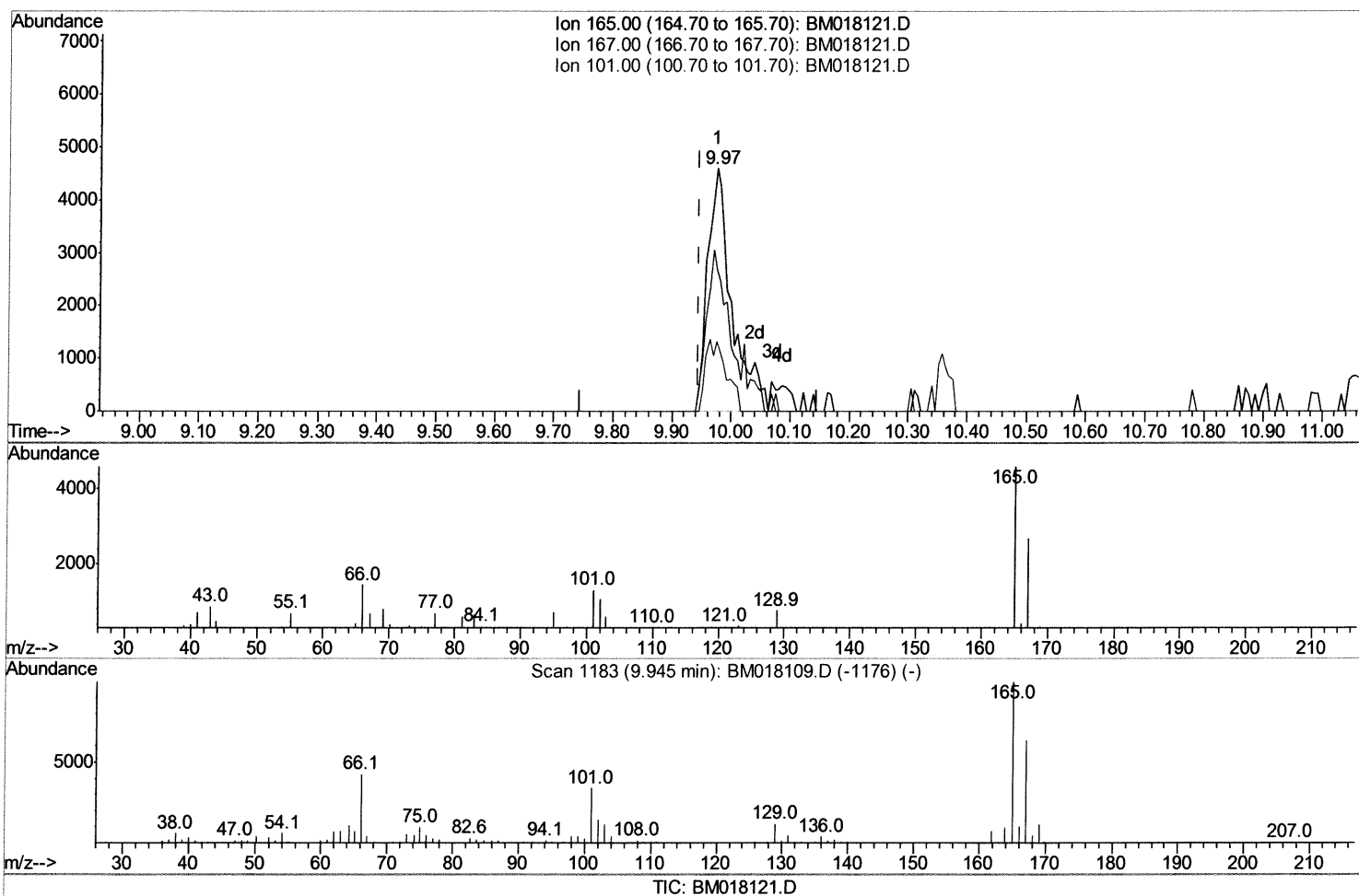
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(26) 2,4-Dichlorophenol-d3 (S)

9.975min (+0.030) 1.40ng/ul m > SJ 12/13/18

response 13043

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 165.00 | 100   | 100   |
| 167.00 | 65.50 | 58.27 |
| 101.00 | 34.80 | 28.49 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

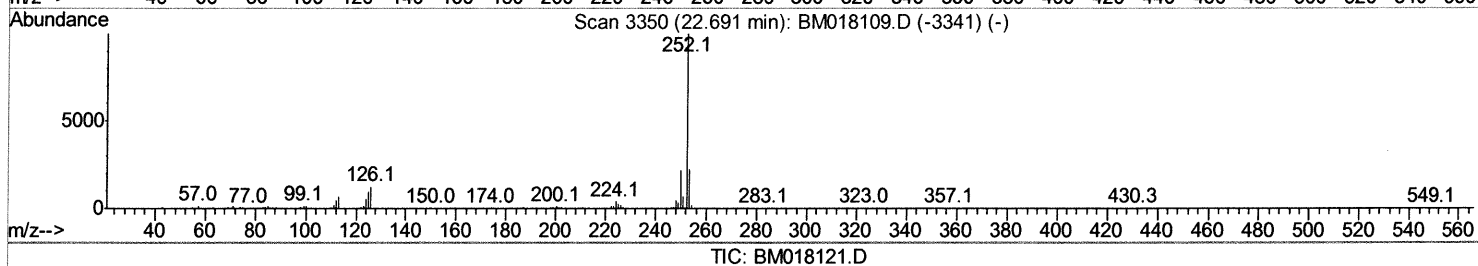
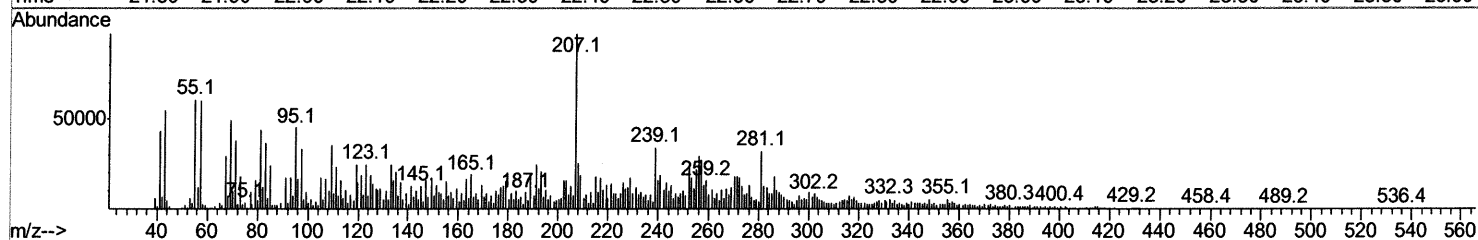
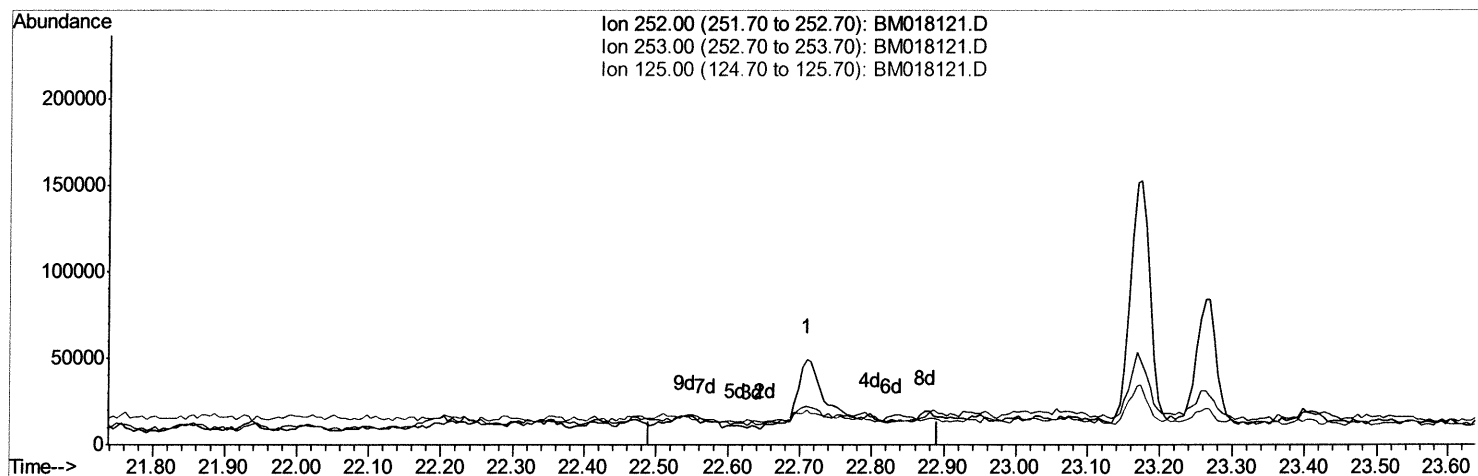
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(87) Benzo(b)fluoranthene

22.691min (-22.691) 0.00ng/ul d

response 0

| Ion    | Exp%  | Act% |
|--------|-------|------|
| 252.00 | 100   | 0.00 |
| 253.00 | 21.20 | 0.00 |
| 125.00 | 9.10  | 0.00 |
| 0.00   | 0.00  | 0.00 |

## Quantitation Report (Qedit)

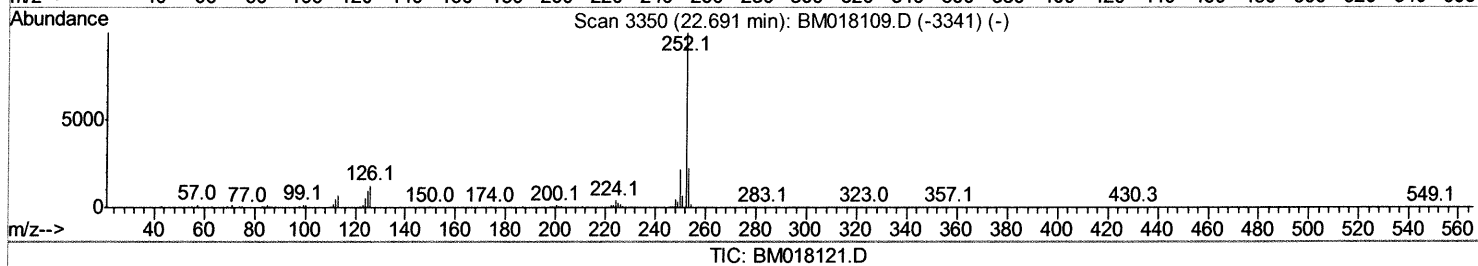
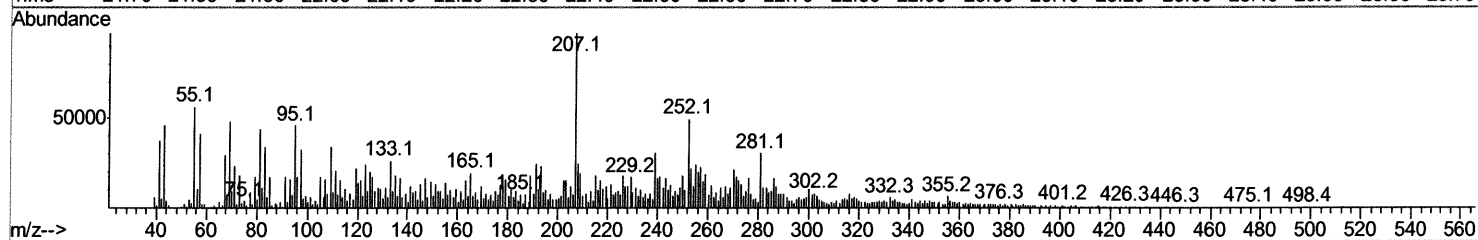
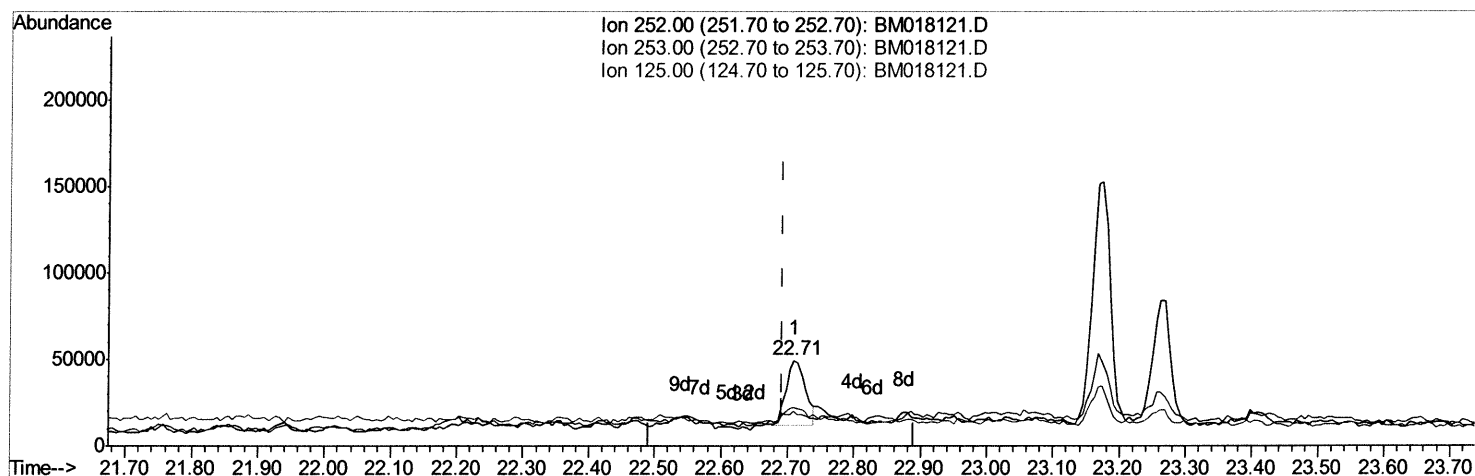
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
Data File : BM018121.D  
Acq On : 13 Dec 2018 08:55  
Operator : JU/SJ  
Sample : J6171-15 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y25

Manual Integrations  
APPROVED

Sohil  
12/13/2018 6:17:07 PM

Quant Time: Dec 13 09:53:52 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 13 06:49:34 2018  
Response via : Initial Calibration



(87) Benzo(b)fluoranthene

22.709min (+0.018) 1.89ng/ul m

> SJ 12/13/18

response 75578

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.20 | 45.05# |
| 125.00 | 9.10  | 40.96# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121218\  
 Data File : BM018121.D  
 Acq On : 13 Dec 2018 08:55  
 Operator : JU/SJ  
 Sample : J6171-15 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9Y25

Manual Integrations  
 APPROVED

Sohil  
 12/13/2018 6:17:07 PM

Quant Time: Dec 13 10:22:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 13 06:49:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 151219   | 20.00 | nq/ul | 0.00      |
| 18) Naphthalene-d8        | 10.31 | 136  | 557443   | 20.00 | nq/ul | 0.00      |
| 35) Acenaphthene-d10      | 14.19 | 164  | 330410   | 20.00 | nq/ul | 0.00      |
| 61) Phenanthrene-d10      | 16.96 | 188  | 696159   | 20.00 | nq/ul | 0.00      |
| 77) Chrysene-d12          | 21.17 | 240  | 667722   | 20.00 | nq/ul | 0.00      |
| 85) Perylene-d12          | 23.36 | 264  | 644785   | 20.00 | ng/ul | 0.02      |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.15  | 96  | 524    | 0.16 | nq/uL | 0.00 |
| 5) Phenol-d5                   | 6.75  | 99  | 20314m | 1.47 | nq/ul | 0.02 |
| 7) Bis-(2-Chloroethyl) ether-d | 6.90  | 67  | 12920  | 1.55 | nq/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.09  | 132 | 18739m | 1.73 | nq/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.28  | 113 | 14737  | 1.31 | nq/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.71  | 128 | 8107   | 1.89 | nq/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.42  | 143 | 8090   | 1.65 | nq/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 9.97  | 165 | 13043m | 1.40 | nq/ul | 0.03 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0d     | 0.00 | nq/ul |      |
| 43) Dimethylphthalate-d6       | 13.62 | 166 | 50689  | 1.77 | nq/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.88 | 160 | 64138  | 1.85 | nq/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.43 | 143 | 1567   | 0.30 | nq/ul | 0.00 |
| 57) Fluorene-d10               | 15.20 | 176 | 47874  | 1.93 | nq/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 3163   | 0.64 | nq/ul | 0.00 |
| 70) Anthracene-d10             | 17.05 | 188 | 68192  | 1.97 | nq/ul | 0.00 |
| 78) Pyrene-d10                 | 19.36 | 212 | 79970  | 2.48 | nq/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.22 | 264 | 67679  | 1.94 | ng/ul | 0.02 |

SD 12/13/18

## Target Compounds

|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene            | 10.36 | 128 | 59078   | 2.034  | nq/ul# | 93 |
| 34) 2-Methylnaphthalene    | 11.98 | 142 | 114740  | 5.292  | nq/ul  | 95 |
| 49) Acenaphthene           | 14.26 | 153 | 30562   | 1.309  | nq/ul  | 97 |
| 58) Fluorene               | 15.25 | 166 | 35556   | 1.290  | nq/ul# | 92 |
| 64) N-Nitrosodiphenylamine | 15.47 | 169 | 111763  | 5.214  | nq/ul# | 55 |
| 69) Phenanthrene           | 17.00 | 178 | 570852  | 14.339 | nq/ul# | 94 |
| 71) Anthracene             | 17.09 | 178 | 101215  | 2.486  | nq/ul# | 84 |
| 76) Fluoranthene           | 19.03 | 202 | 185776  | 3.967  | nq/ul# | 90 |
| 79) Pyrene                 | 19.40 | 202 | 1696818 | 41.862 | nq/ul  | 99 |
| 82) Benzo(a)anthracene     | 21.16 | 228 | 182640  | 4.410  | nq/ul# | 46 |
| 84) Chrysene               | 21.21 | 228 | 295606  | 7.632  | nq/ul# | 72 |
| 87) Benzo(b)fluoranthene   | 22.71 | 252 | 75578m  | 1.886  | nq/ul  |    |
| 90) Benzo(a)pyrene         | 23.26 | 252 | 134008  | 3.526  | nq/ul# | 65 |
| 91) Indeno(1,2,3-cd)pyrene | 25.52 | 276 | 65853   | 1.635  | nq/ul# | 67 |
| 93) Benzo(a,h,i)perylene   | 26.18 | 276 | 228007  | 7.005  | nq/ul# | 91 |

SD 12/13/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed