

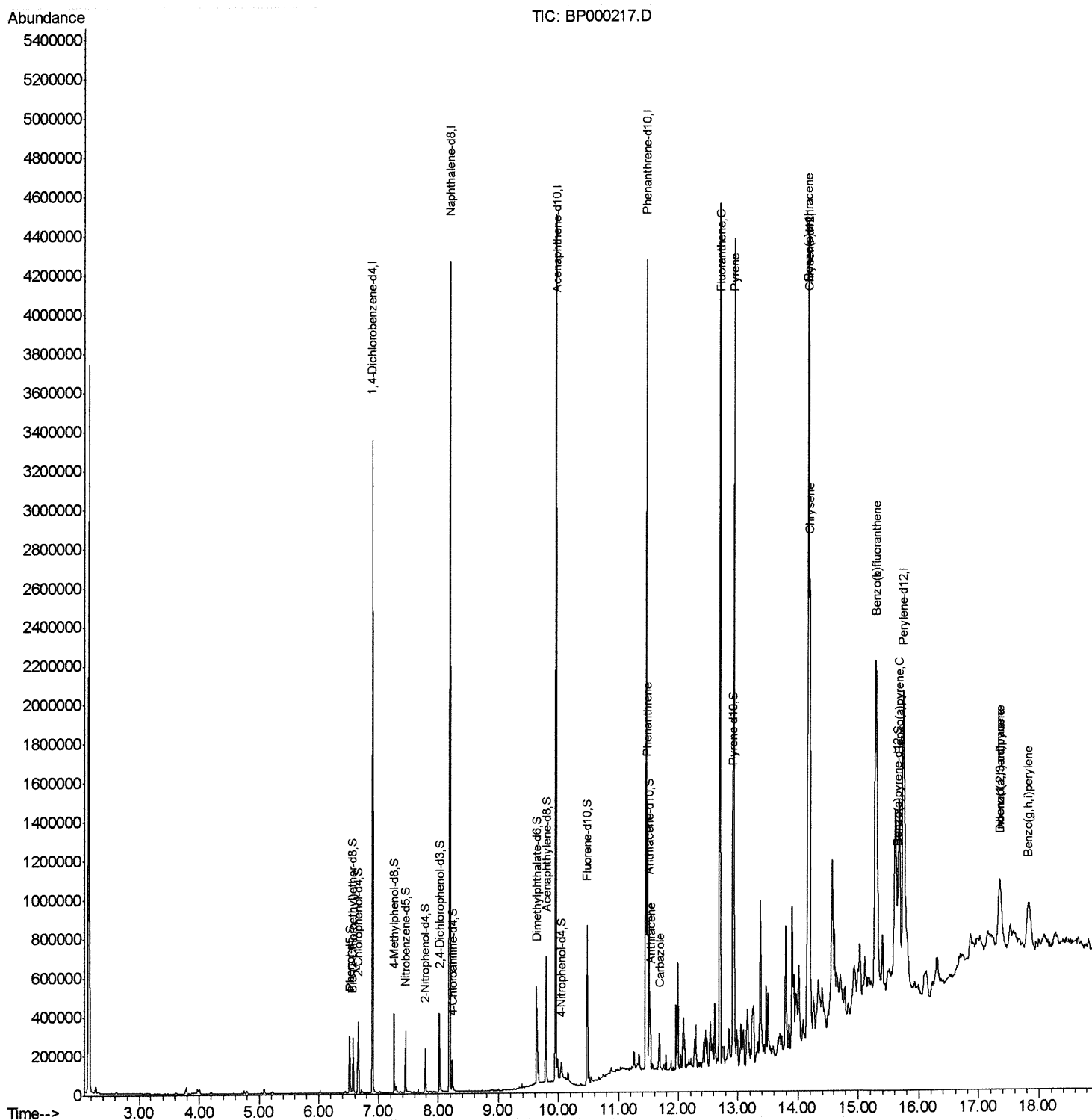
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP091219\  
Data File : BP000217.D  
Acq On : 12 Sep 2019 14:51  
Operator : HP/JU  
Sample : K4634-15DL 5X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D33DL

Manual Integrations  
APPROVED

mohammad  
9/16/2019 9:09:11 AM

Quant Time: Sep 13 13:29:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 02:43:18 2019  
Response via : Initial Calibration



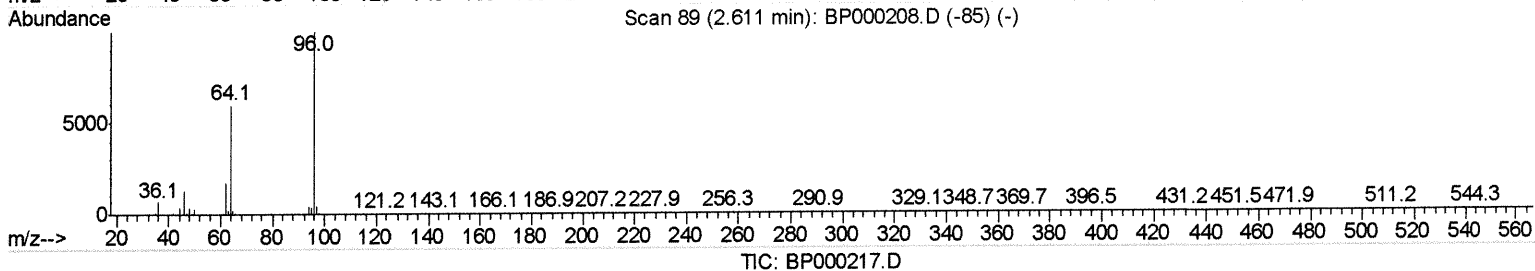
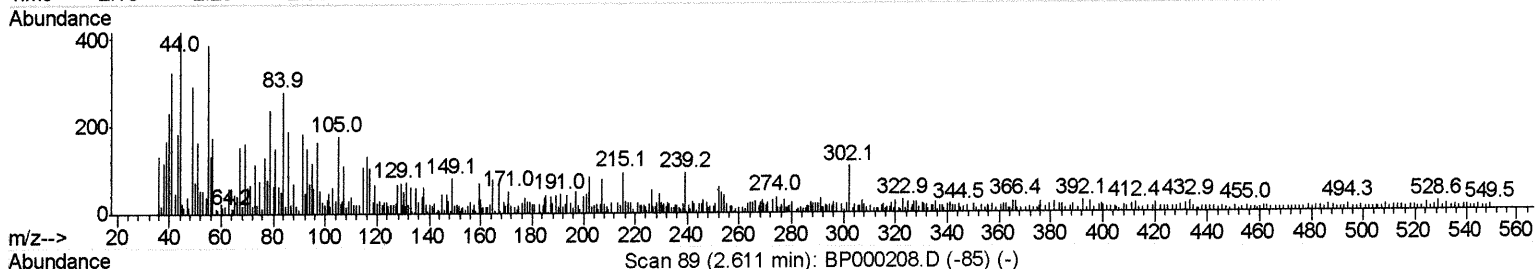
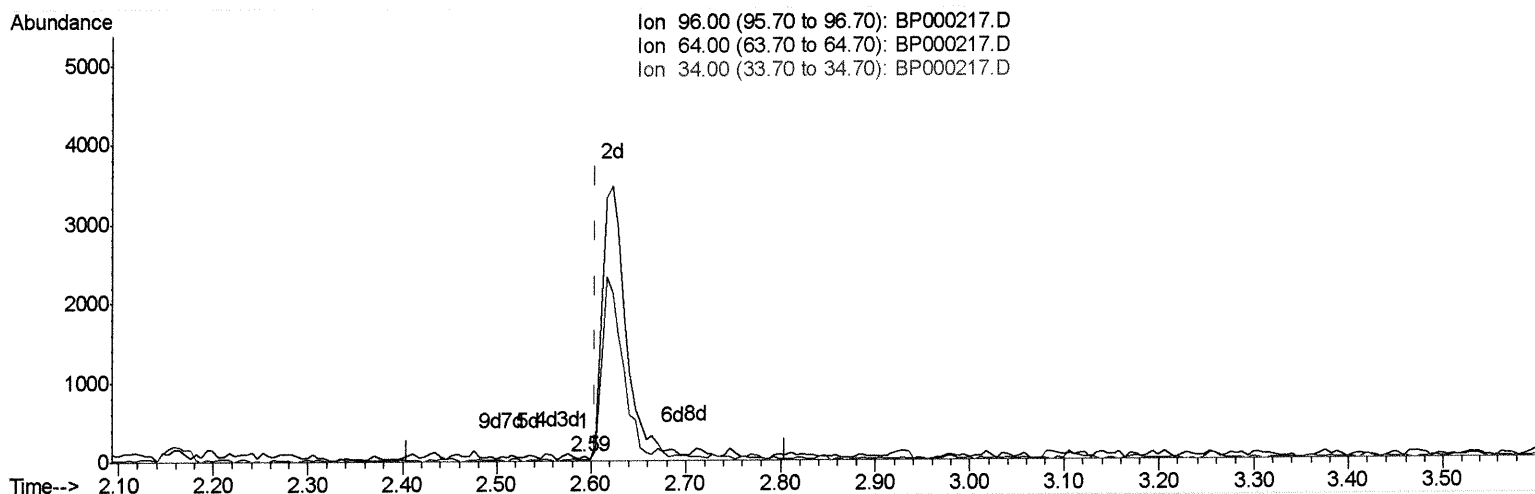
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\  
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Manual Integrations  
APPROVED

mohammad  
9/16/2019 9:09:11 AM

Quant Time: Sep 13 01:48:32 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 02:43:18 2019  
Response via : Initial Calibration



(3) 1,4-Dioxane-d8 (S)

2.593min (-0.012) 0.00ng/uL

response 14

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 96.00 | 100   | 100    |
| 64.00 | 62.70 | 39.66# |
| 34.00 | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

# Quantitation Report (Qedit)

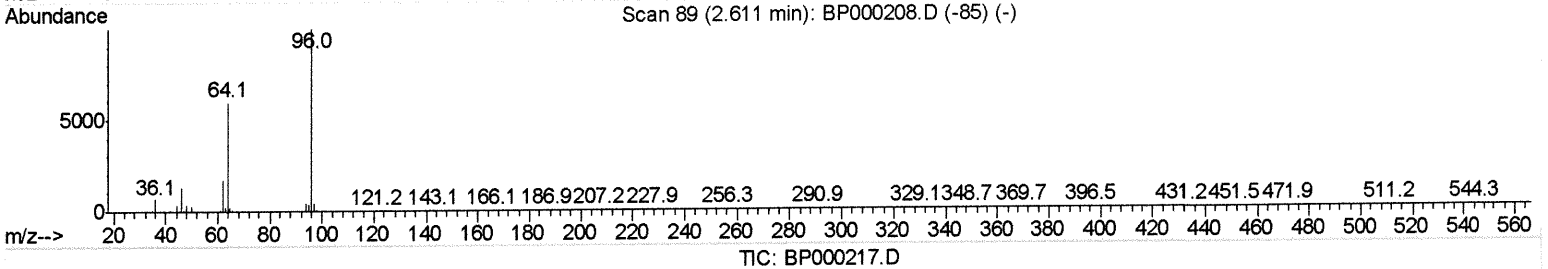
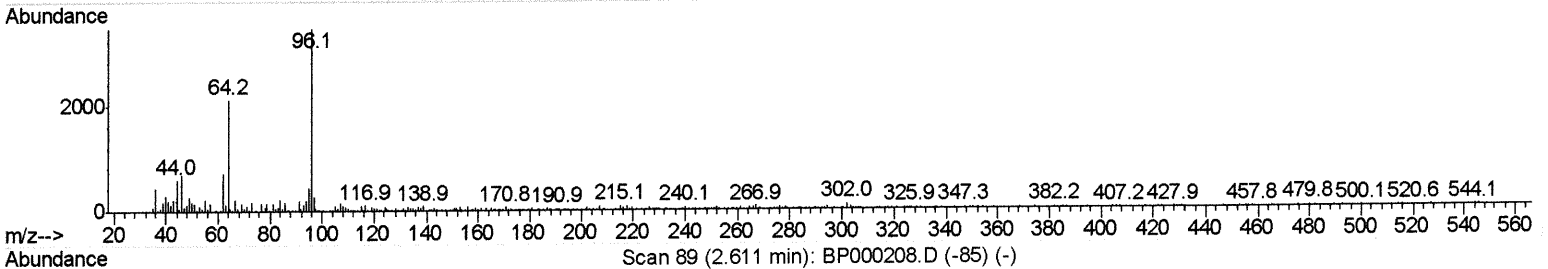
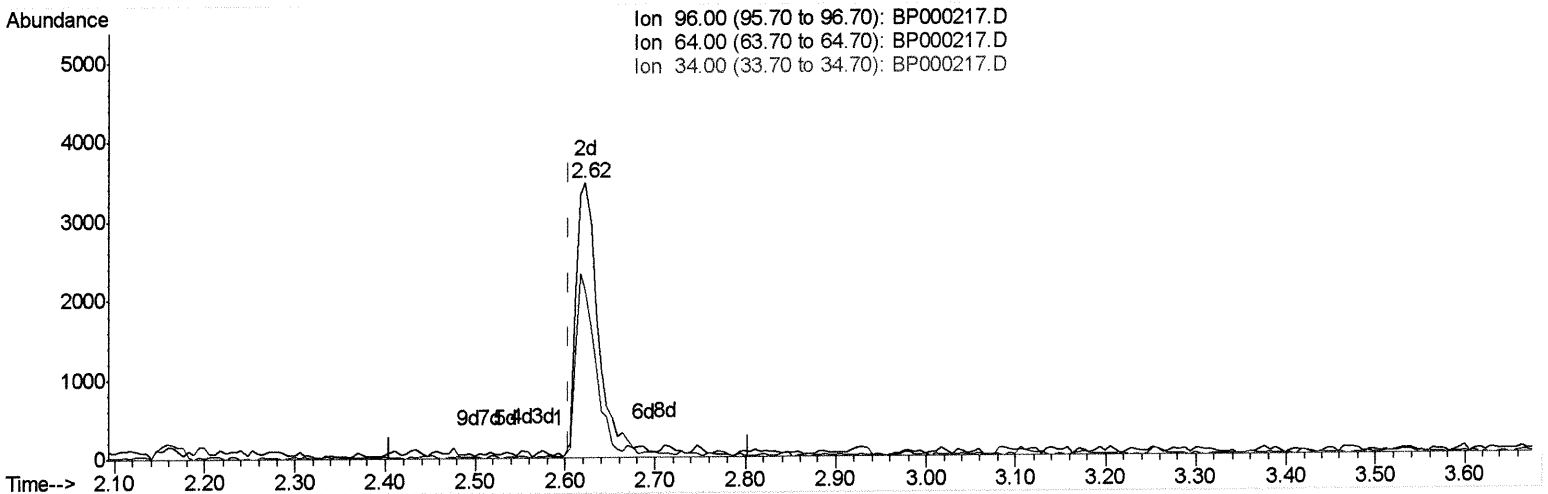
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 02:43:18 2019  
 Response via : Initial Calibration



(3) 1,4-Dioxane-d8 (S)

2.622min (+0.018) 0.44ng/uL m

JU  
 09/17/19

response 5952

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 96.00 | 100   | 100   |
| 64.00 | 62.70 | 61.31 |
| 34.00 | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

# Quantitation Report (Qedit)

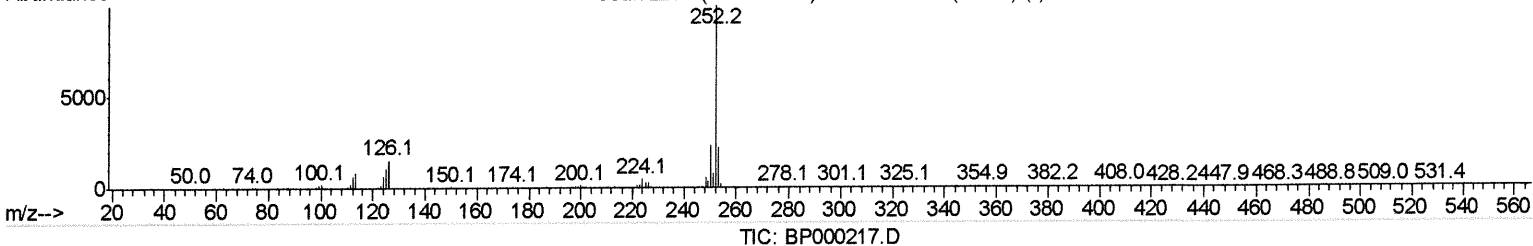
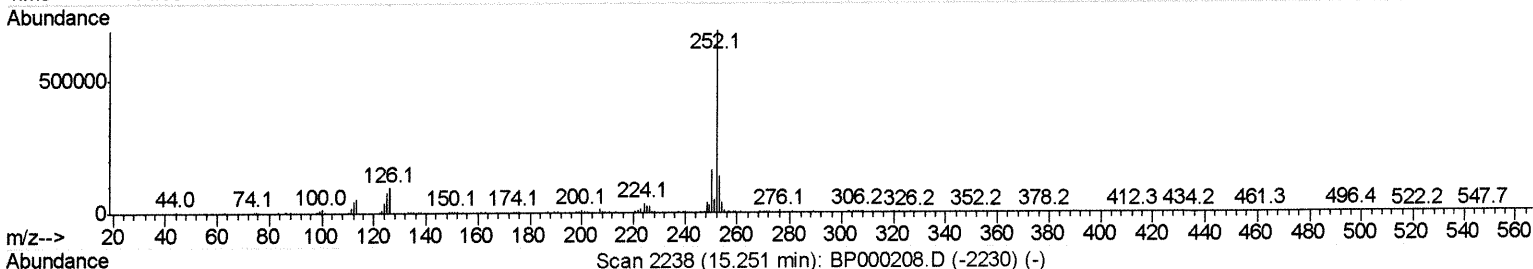
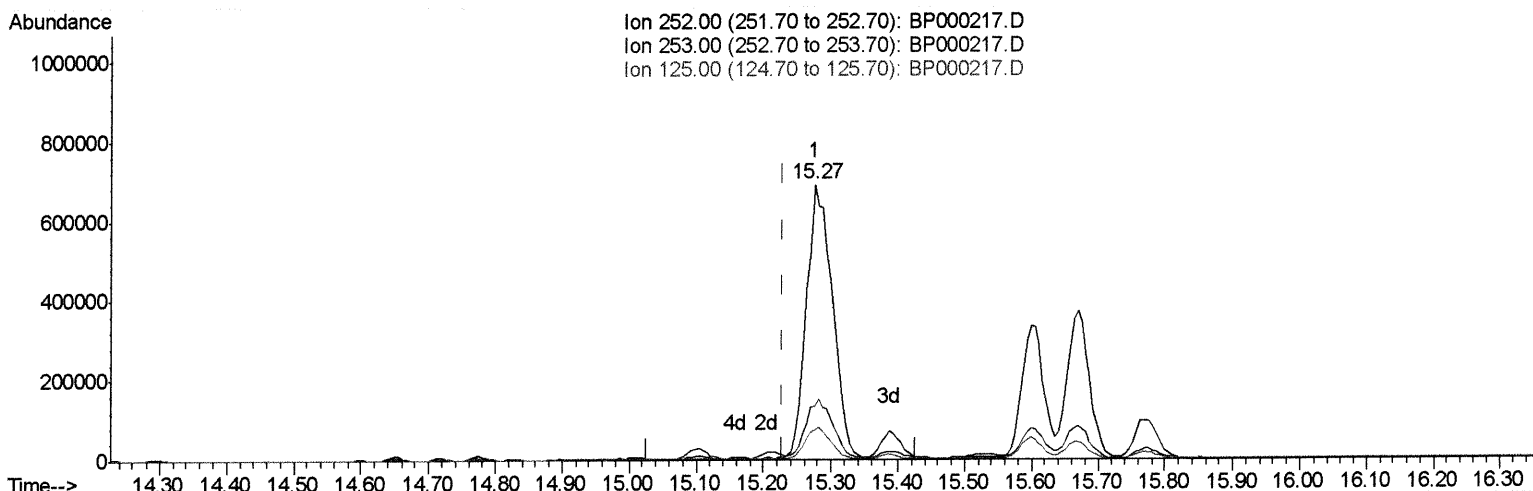
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

Quant Time: Sep 13 01:48:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 02:43:18 2019  
 Response via : Initial Calibration



(88) Benzo(b)fluoranthene  
 15.275min (+0.047) 19.96ng/ul  
 response 1854938

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.90 | 19.67 |
| 125.00 | 12.40 | 10.96 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

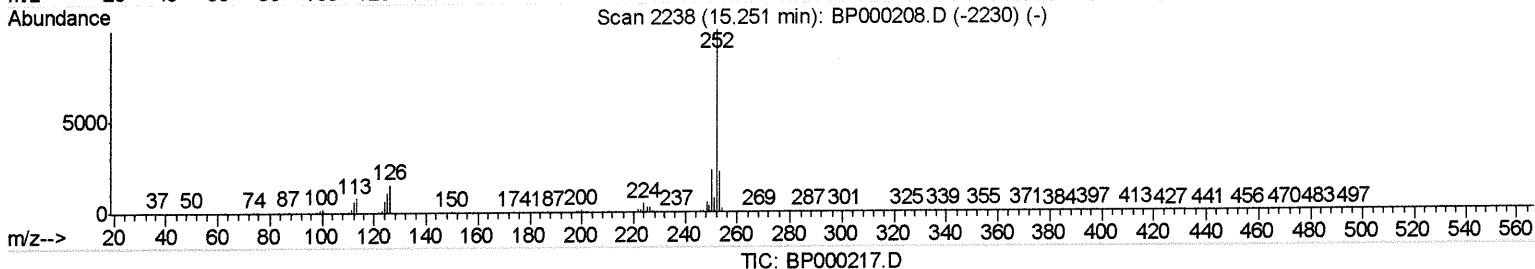
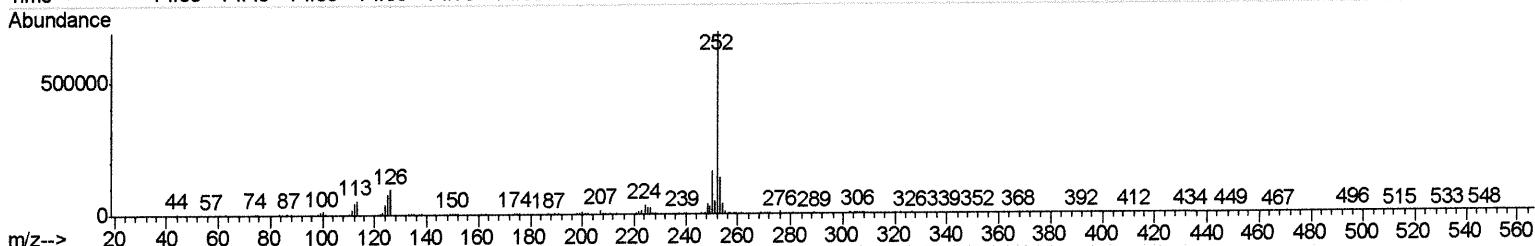
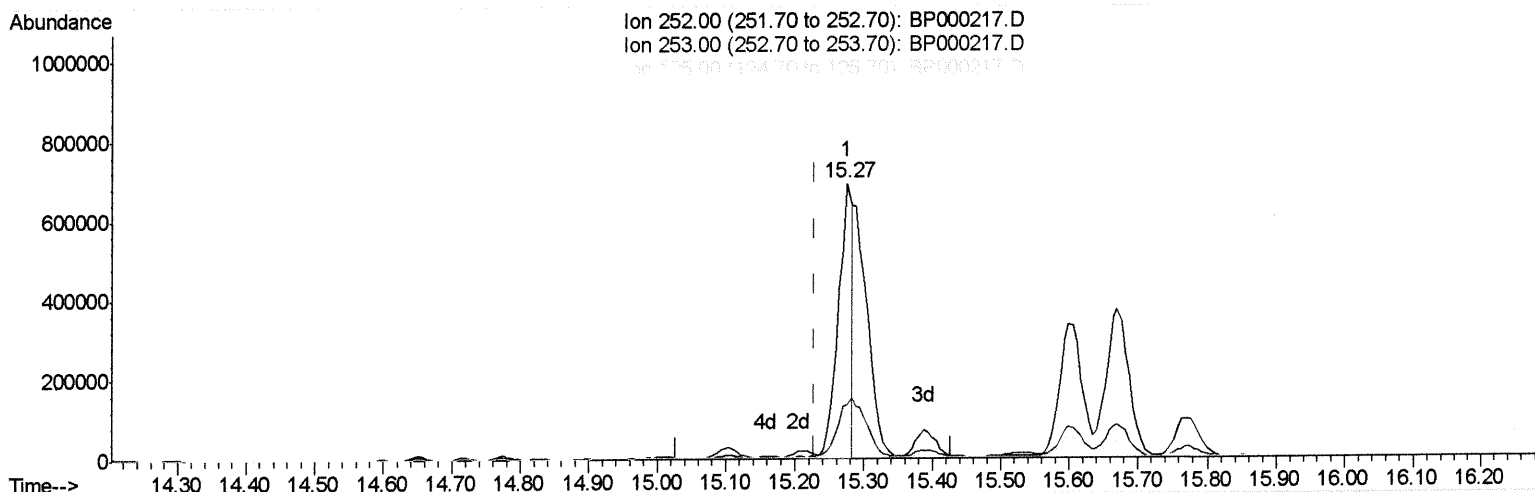
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

Quant Time: Sep 13 04:51:44 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 02:43:18 2019  
 Response via : Initial Calibration



(88) Benzo(b)fluoranthene

15.275min (+0.047) 10.64ng/ul m 09/17/19

response 988603

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.90 | 19.67 |
| 125.00 | 12.40 | 10.96 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

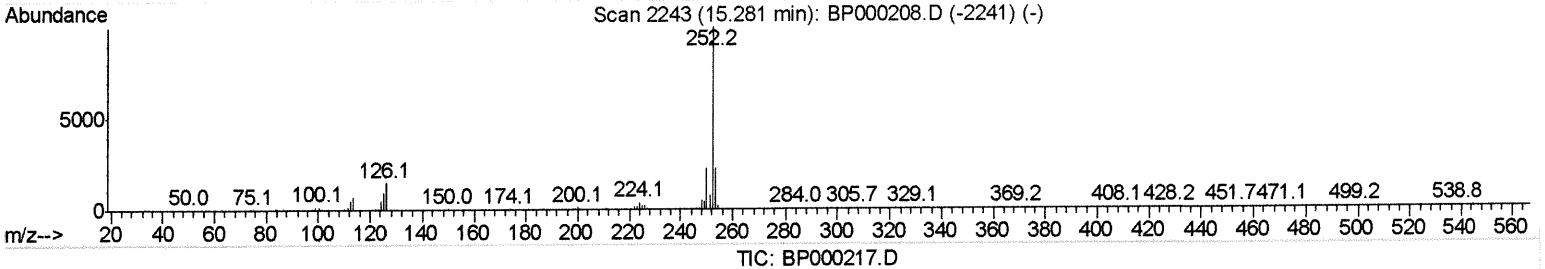
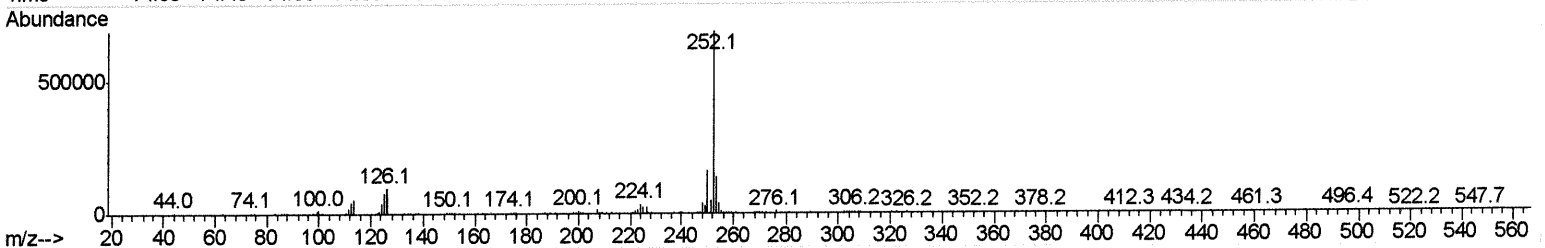
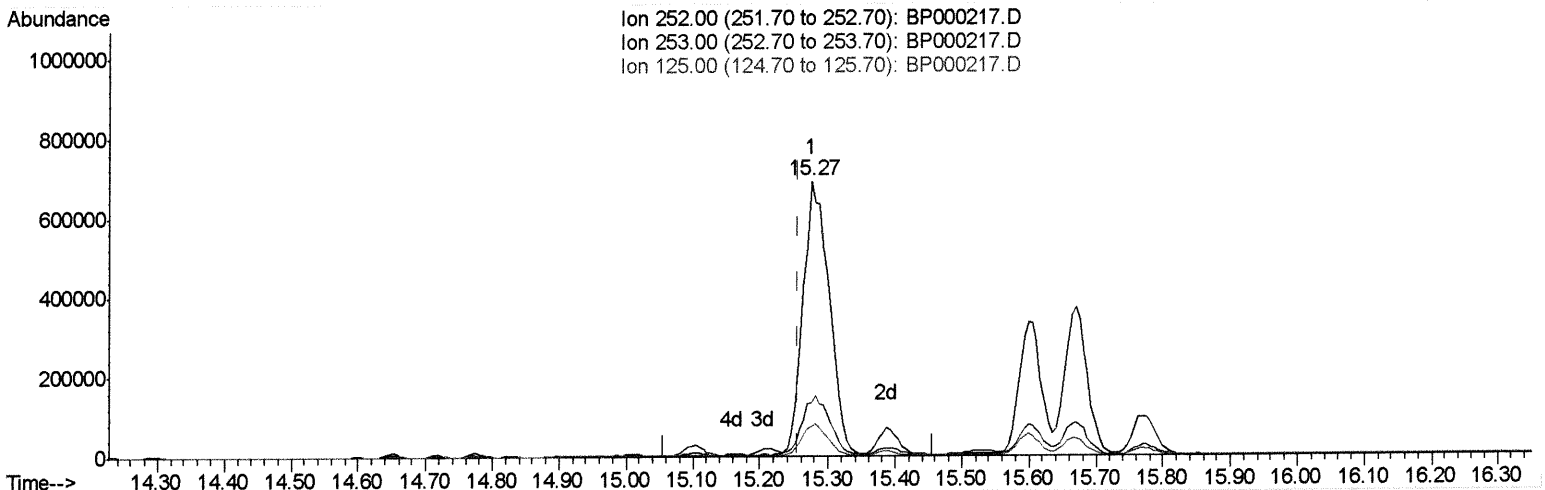
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

Quant Time: Sep 13 01:48:32 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 02:43:18 2019  
 Response via : Initial Calibration



(89) Benzo(k)fluoranthene  
 15.275min (+0.018) 21.17ng/ui

response 1854938

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.50 | 19.67 |
| 125.00 | 12.70 | 10.96 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

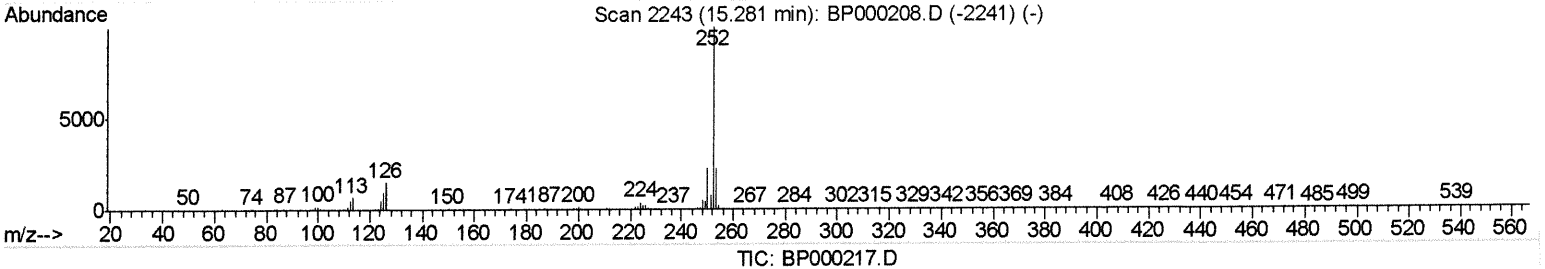
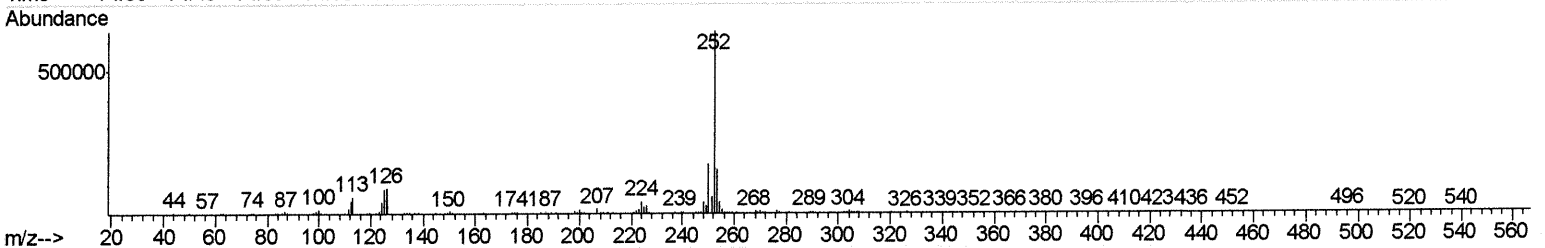
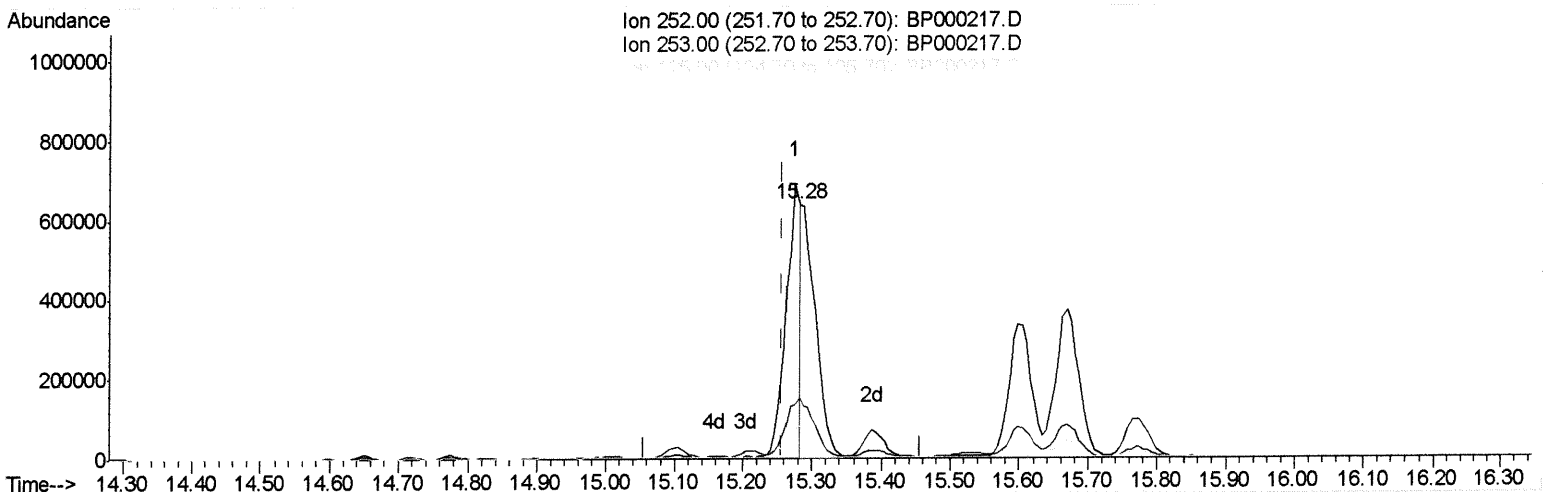
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

Quant Time: Sep 13 04:51:44 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 10 02:43:18 2019  
 Response via : Initial Calibration



(89) Benzo(k)fluoranthene

15.281min (+0.024) 10.22ng/ul m

*JU*  
*09/17/19*

response 895499

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.50 | 24.08 |
| 125.00 | 12.70 | 12.77 |
| 0.00   | 0.00  | 0.00  |

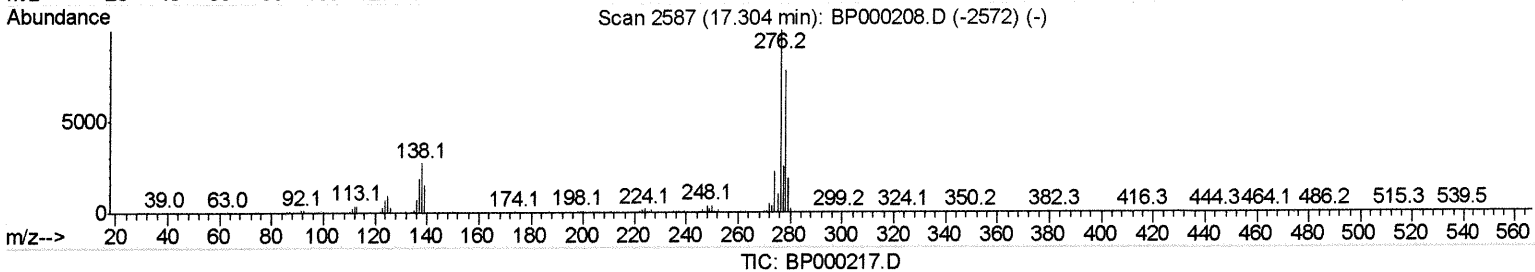
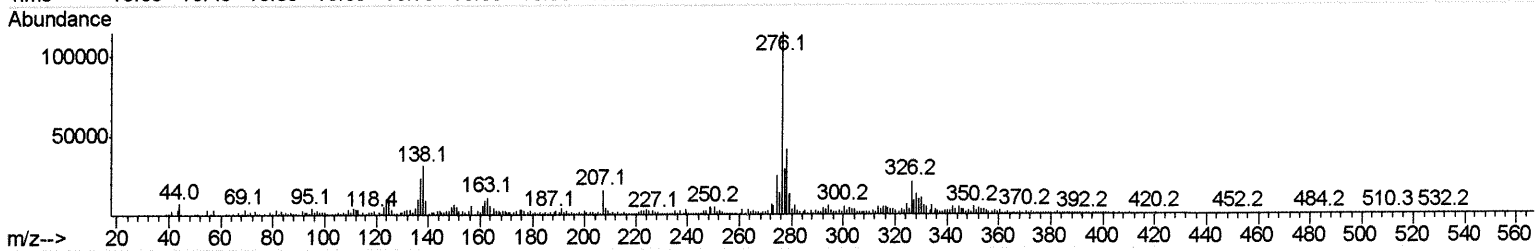
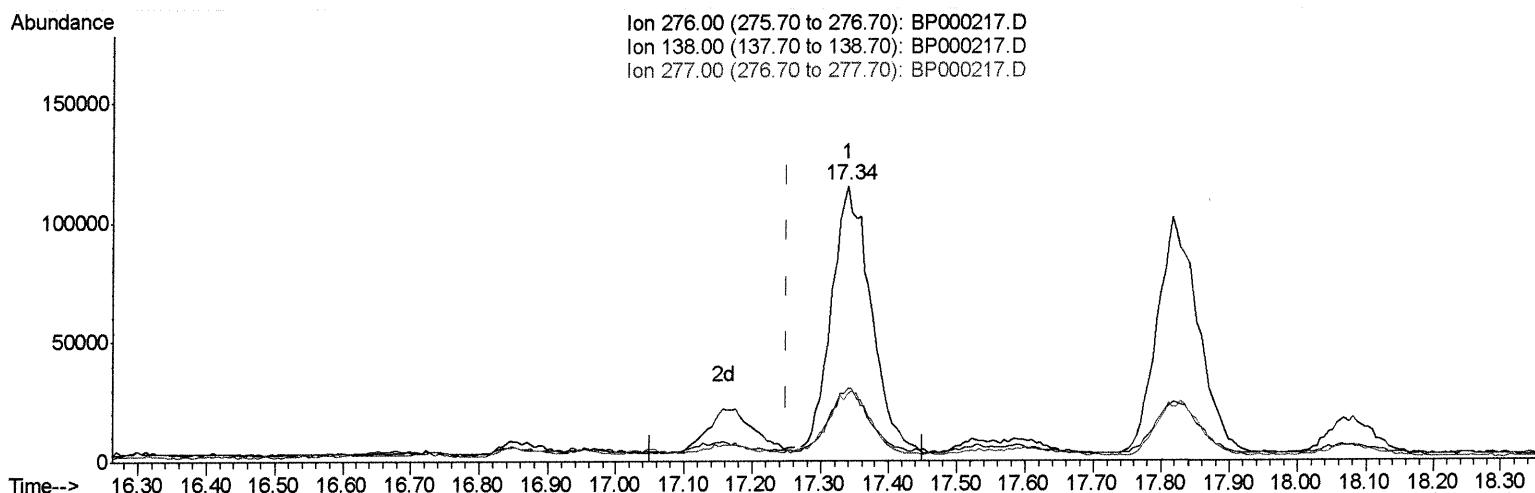
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_P\DATA\BP091219\  
Data File : BP000217.D  
Acq On : 12 Sep 2019 14:51  
Operator : HP/JU  
Sample : K4634-15DL 5X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D33DL

Manual Integrations  
APPROVED

mohammad  
9/16/2019 9:09:11 AM

Quant Time: Sep 13 01:48:32 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 10 02:43:18 2019  
Response via : Initial Calibration



(92) Indeno(1,2,3-cd)pyrene

17.339min (+0.088) 2.70ng/ul

response 271320

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 25.00 | 26.44 |
| 277.00 | 24.20 | 24.72 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA P\Data\BP091219\

Data File : BP000217.D

Acq On : 12 Sep 2019 14:51

Operator : HP/JU

Sample : K4634-15DL 5X

Misc :

ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 13 13:29:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Tue Sep 10 02:43:18 2019

Response via : Initial Calibration

Instrument :

BNA\_P

ClientSampleId :

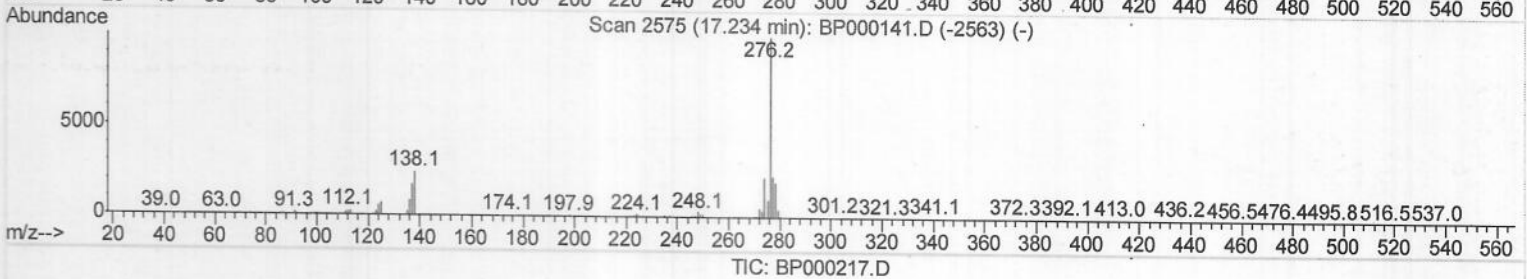
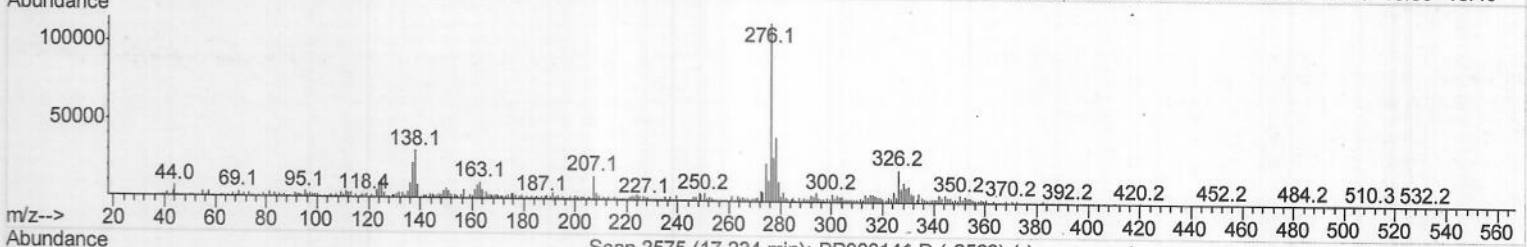
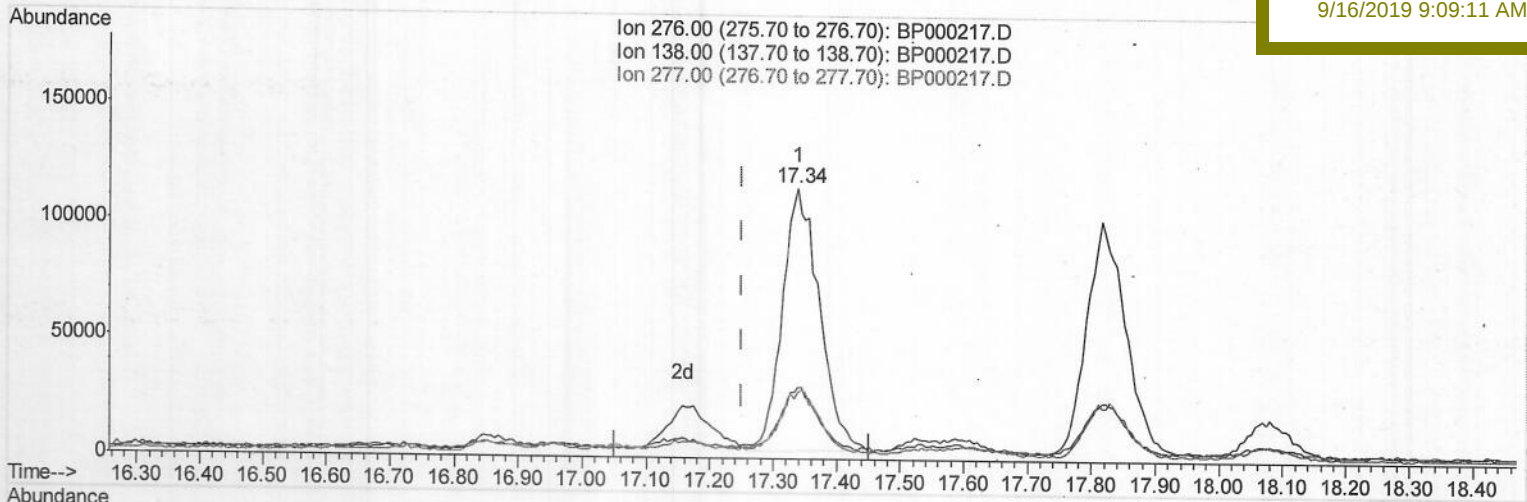
F2D33DL

Manual Integrations

APPROVED

mohammad

9/16/2019 9:09:11 AM



(92) Indeno(1,2,3-cd)pyrene

17.339min (+0.088) 4.52ng/ul m > JU 09/17/19

response 453599

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 25.00 | 26.44 |
| 277.00 | 24.20 | 24.72 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP091219\  
 Data File : BP000217.D  
 Acq On : 12 Sep 2019 14:51  
 Operator : HP/JU  
 Sample : K4634-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D33DL

Manual Integrations  
 APPROVED

mohammad  
 9/16/2019 9:09:11 AM

Quant Time: Sep 13 13:29:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Tue Sep 10 02:43:18 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 476254   | 20.00 | ng/ul | 0.00      |
| 18) Naphthalene-d8        | 8.18  | 136  | 1780639  | 20.00 | ng/ul | 0.00      |
| 36) Acenaphthene-d10      | 9.95  | 164  | 942400   | 20.00 | ng/ul | 0.00      |
| 62) Phenanthrene-d10      | 11.46 | 188  | 1658945  | 20.00 | ng/ul | 0.00      |
| 78) Chrysene-d12          | 14.17 | 240  | 1325504  | 20.00 | ng/ul | 0.02      |
| 86) Perylene-d12          | 15.75 | 264  | 1402222  | 20.00 | ng/ul | 0.06      |

#### System Monitoring Compounds

|                                |       |     |         |      |       |      |             |
|--------------------------------|-------|-----|---------|------|-------|------|-------------|
| 3) 1,4-Dioxane-d8              | 2.62  | 96  | 5952m → | 0.44 | ng/uL | 0.02 | JU 09/17/19 |
| 5) Phenol-d5                   | 6.51  | 99  | 104254  | 2.57 | ng/ul | 0.00 |             |
| 7) Bis-(2-Chloroethyl) ether-d | 6.57  | 67  | 56711   | 2.67 | ng/ul | 0.00 |             |
| 9) 2-Chlorophenol-d4           | 6.66  | 132 | 89333   | 2.72 | ng/ul | 0.00 |             |
| 13) 4-Methylphenol-d8          | 7.26  | 113 | 77939   | 2.56 | ng/ul | 0.00 |             |
| 19) Nitrobenzene-d5            | 7.45  | 128 | 37257   | 2.76 | ng/ul | 0.00 |             |
| 22) 2-Nitrophenol-d4           | 7.78  | 143 | 36726   | 2.79 | ng/ul | 0.00 |             |
| 26) 2,4-Dichlorophenol-d3      | 8.02  | 165 | 74275   | 2.66 | ng/ul | 0.00 |             |
| 29) 4-Chloroaniline-d4         | 8.23  | 131 | 47709   | 1.38 | ng/ul | 0.00 |             |
| 44) Dimethylphthalate-d6       | 9.63  | 166 | 216339  | 3.11 | ng/ul | 0.00 |             |
| 47) Acenaphthylene-d8          | 9.79  | 160 | 259959  | 3.02 | ng/ul | 0.00 |             |
| 52) 4-Nitrophenol-d4           | 10.04 | 143 | 21653   | 1.74 | ng/ul | 0.00 |             |
| 58) Fluorene-d10               | 10.47 | 176 | 182100  | 3.08 | ng/ul | 0.00 |             |
| 63) 4,6-Dinitro-2-methylphenol | 10.54 | 200 | 5210    | 0.68 | ng/ul | 0.01 |             |
| 71) Anthracene-d10             | 11.51 | 188 | 259454  | 3.23 | ng/ul | 0.00 |             |
| 79) Pyrene-d10                 | 12.90 | 212 | 243802  | 3.09 | ng/ul | 0.00 |             |
| 90) Benzo(a)pyrene-d12         | 15.64 | 264 | 214071  | 2.95 | ng/ul | 0.05 |             |

#### Target Compounds

| Target Compounds           |       |     |           |        |        | Qvalue |
|----------------------------|-------|-----|-----------|--------|--------|--------|
| 70) Phenanthrene           | 11.48 | 178 | 535388    | 5.457  | ng/ul  | 99     |
| 72) Anthracene             | 11.53 | 178 | 113347    | 1.174  | ng/ul  | 98     |
| 75) Carbazole              | 11.69 | 167 | 90182     | 1.093  | ng/ul  | 97     |
| 77) Fluoranthene           | 12.69 | 202 | 1935646   | 19.562 | ng/ul  | 99     |
| 80) Pyrene                 | 12.93 | 202 | 1896637   | 18.966 | ng/ul  | 95     |
| 83) Benzo(a)anthracene     | 14.15 | 228 | 1162184   | 12.112 | ng/ul  | 97     |
| 85) Chrysene               | 14.19 | 228 | 1217285   | 13.825 | ng/ul  | 98     |
| 88) Benzo(b)fluoranthene   | 15.27 | 252 | 988603m → | 10.637 | ng/ul  | 99     |
| 89) Benzo(k)fluoranthene   | 15.28 | 252 | 895499m → | 10.222 | ng/ul  | 99     |
| 91) Benzo(a)pyrene         | 15.67 | 252 | 854327    | 9.798  | ng/ul  | 99     |
| 92) Indeno(1,2,3-cd)pyrene | 17.34 | 276 | 453599m → | 4.522  | ng/ul  | 99     |
| 93) Dibenzo(a,h)anthracene | 17.34 | 278 | 139704    | 1.681  | ng/ul# | 90     |
| 94) Benzo(g,h,i)perylene   | 17.82 | 276 | 413064    | 4.939  | ng/ul  | 97     |

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