

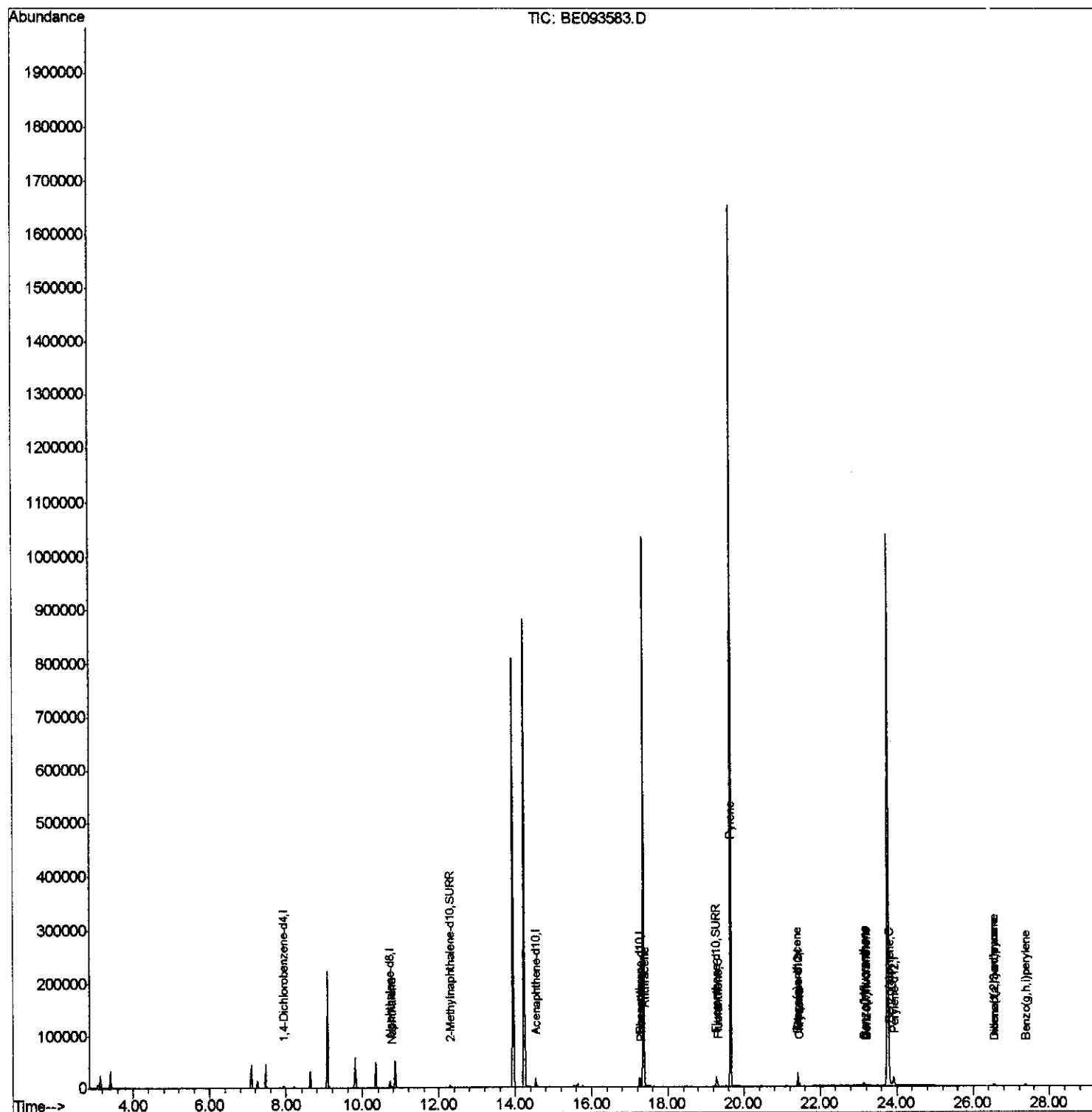
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:22:14 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



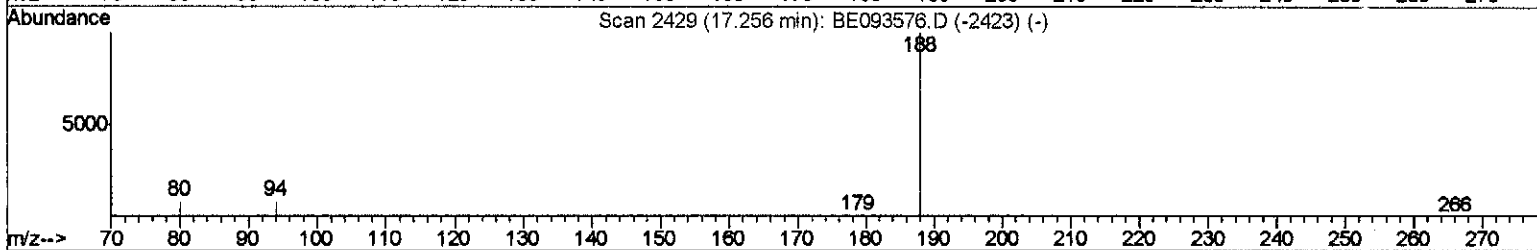
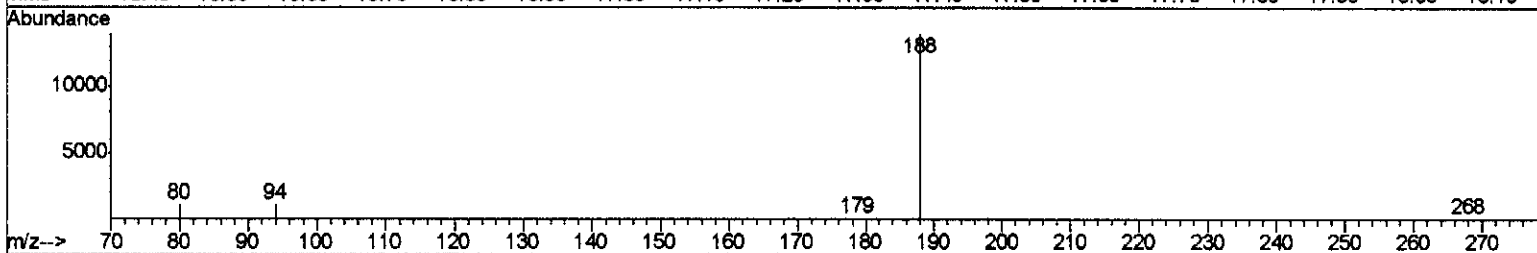
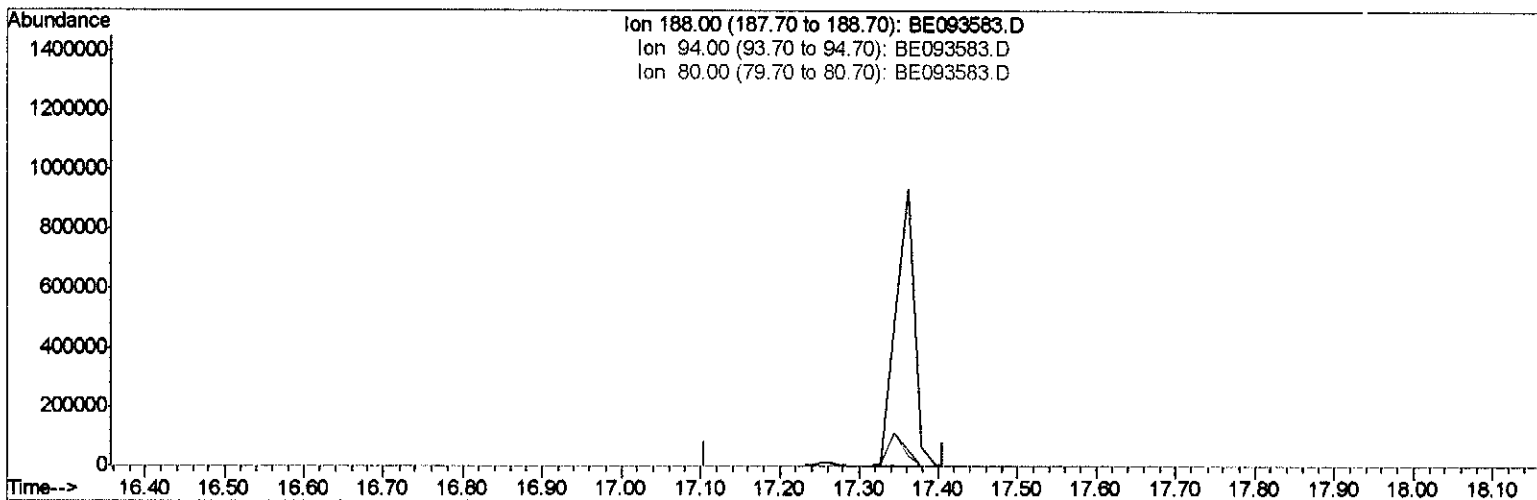
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:16:11 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(10) Phenanthrene-d10 (I)

17.256min (-17.256) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 0.00  |
| 94.00  | 11.00 | 0.00# |
| 80.00  | 11.80 | 0.00# |
| 0.00   | 0.00  | 0.00  |

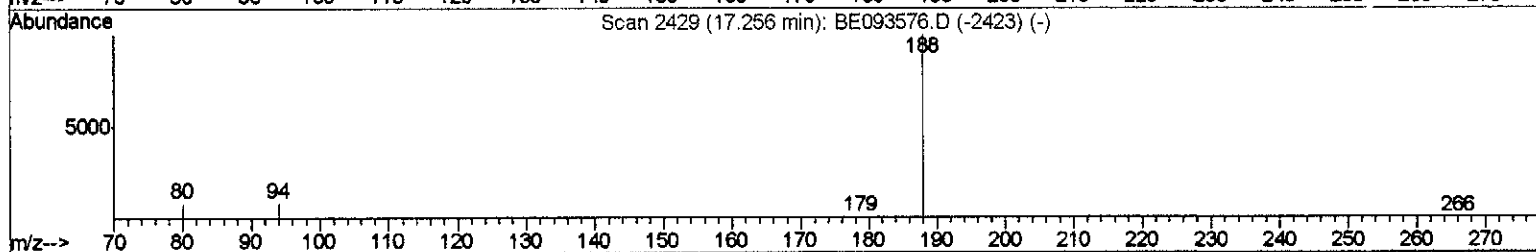
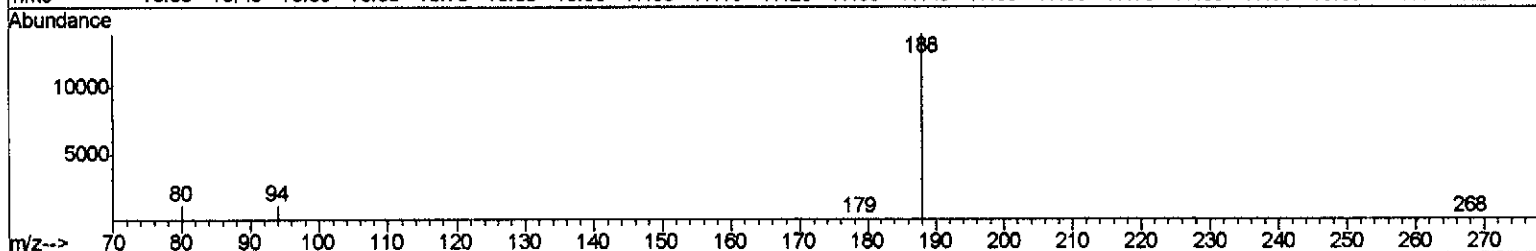
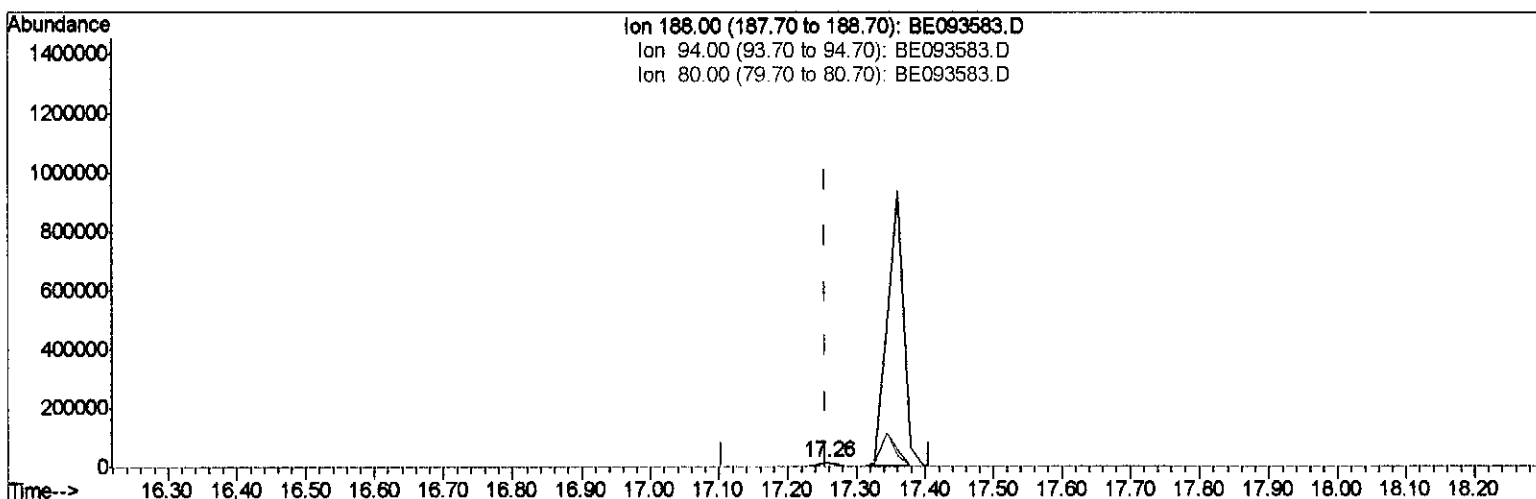
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:16:11 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(10) Phenanthrene-d10 (I)

17.257min (+0.001) 0.40ng/ul m

51 8/8/17

response 20850

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.00 | 7.87# |
| 80.00  | 11.80 | 7.64# |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

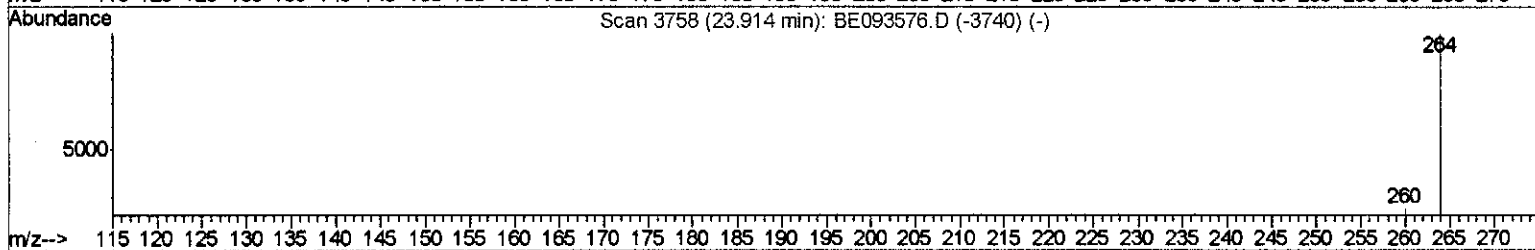
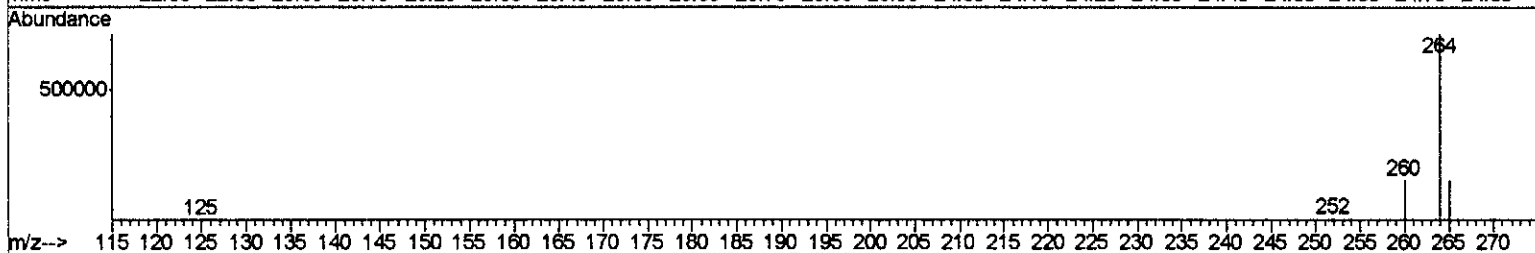
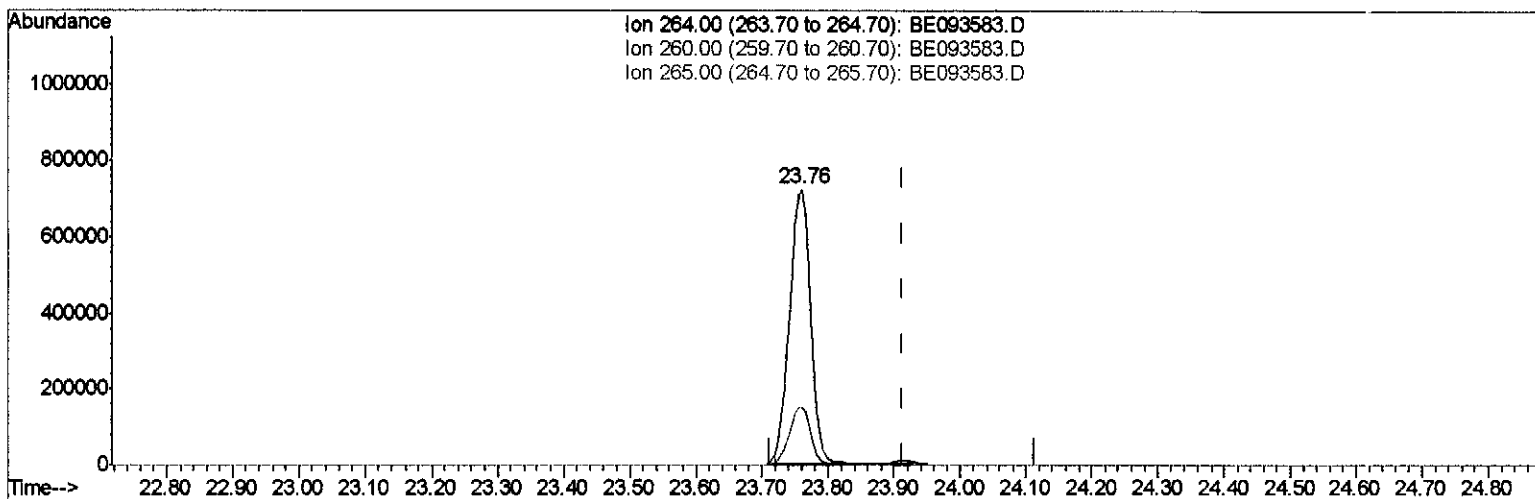
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:17:51 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(20) Perylene-d12 (I)

23.760min (-0.154) 0.40ng/ul

response 1576483

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 30.10  | 21.15# |
| 265.00 | 103.50 | 21.47# |
| 0.00   | 0.00   | 0.00   |

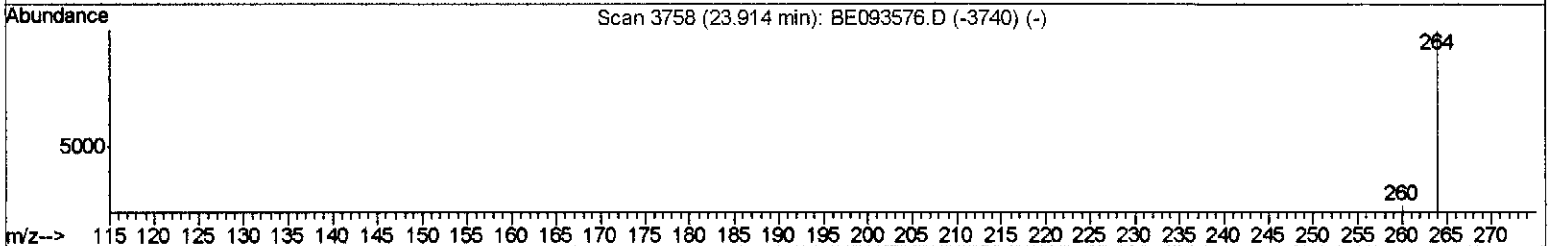
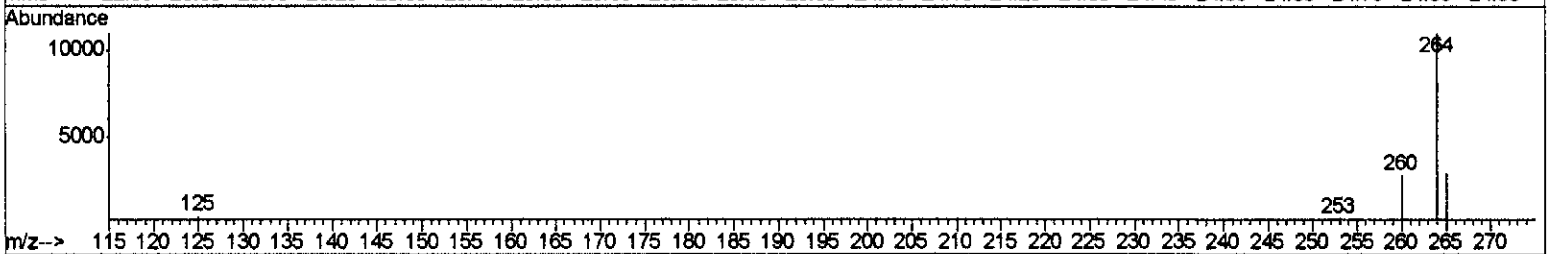
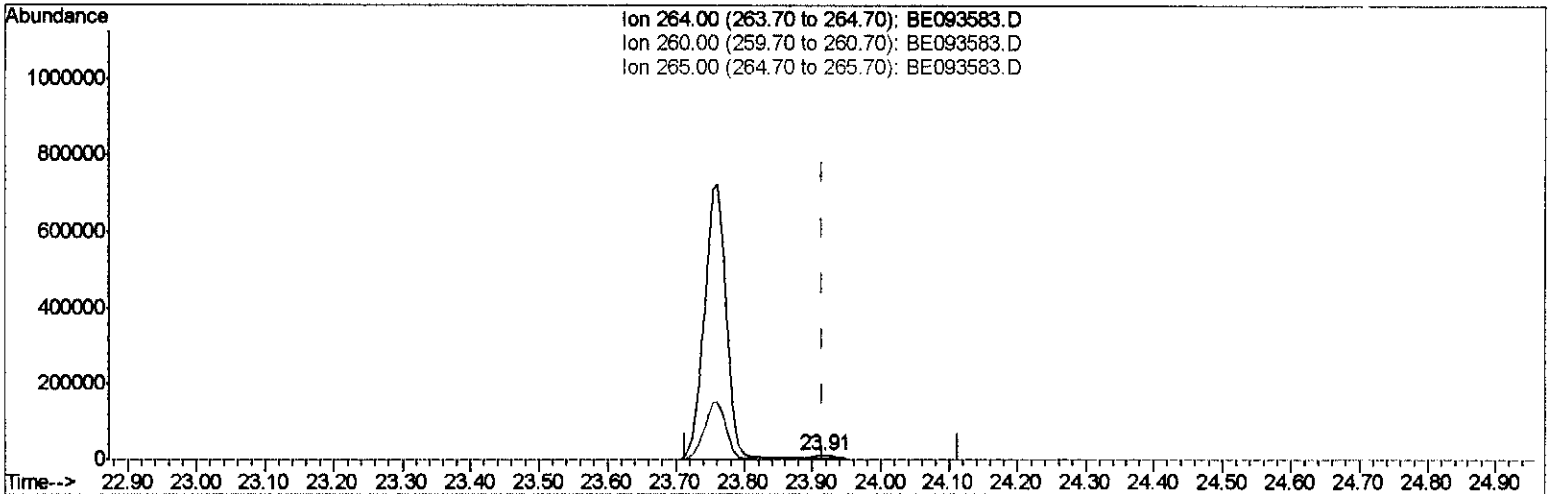
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampled :  
COB30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:17:51 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(20) Perylene-d12 (I)

23.915min (+0.001) 0.40ng/ul m

SJ 8/8/17

response 18853

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 30.10  | 24.61  |
| 265.00 | 103.50 | 26.07# |
| 0.00   | 0.00   | 0.00   |

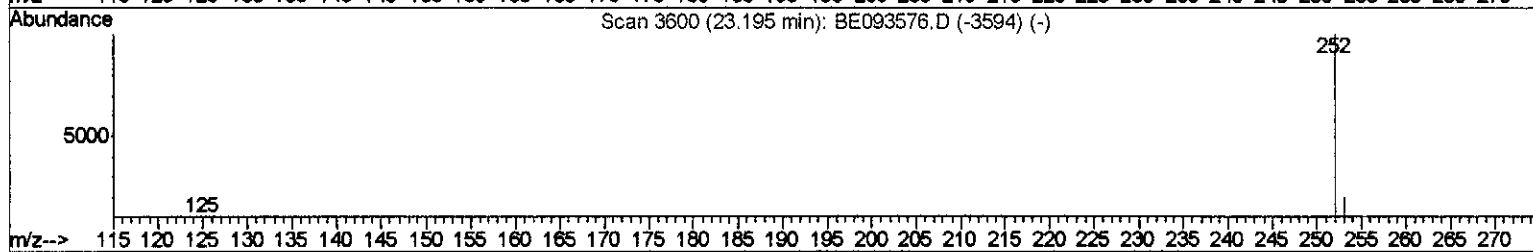
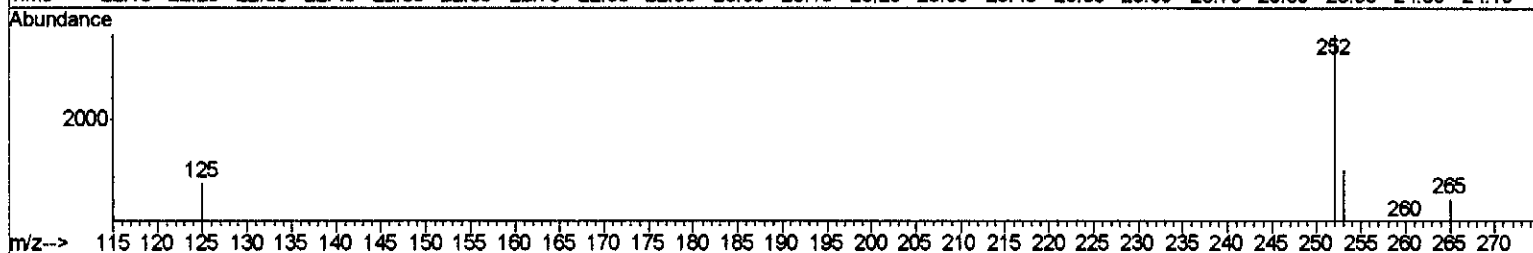
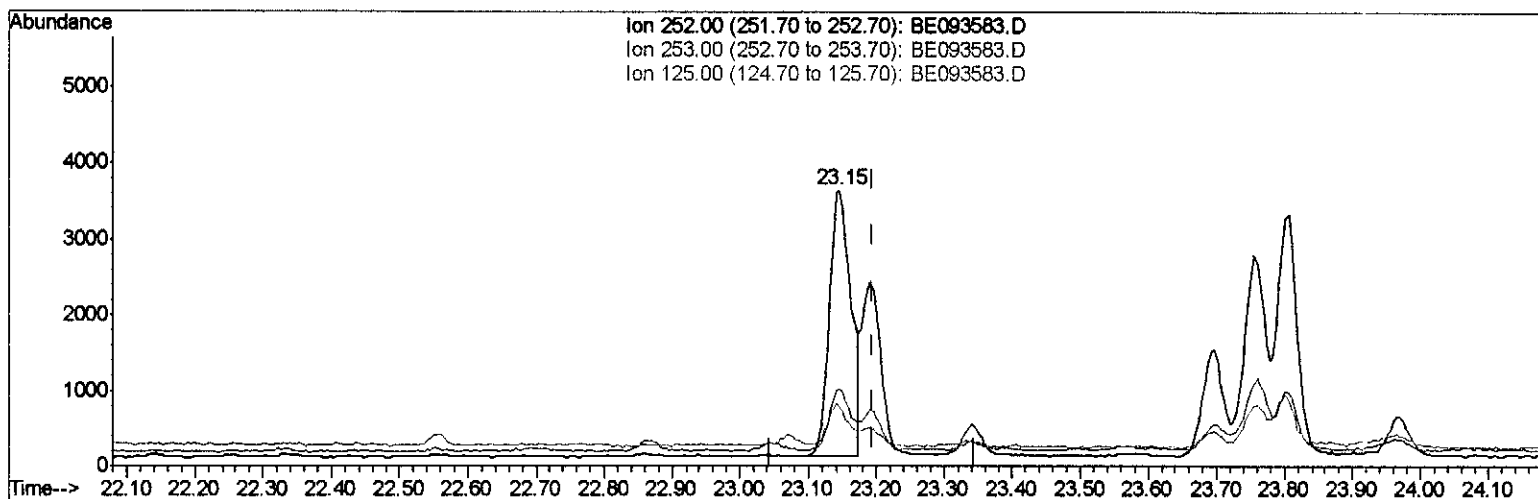
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(22) Benzo(k)fluoranthene

23.145min (-0.049) 0.14ng/ul

response 7976

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 30.60 | 28.17  |
| 125.00 | 17.10 | 21.68# |
| 0.00   | 0.00  | 0.00   |

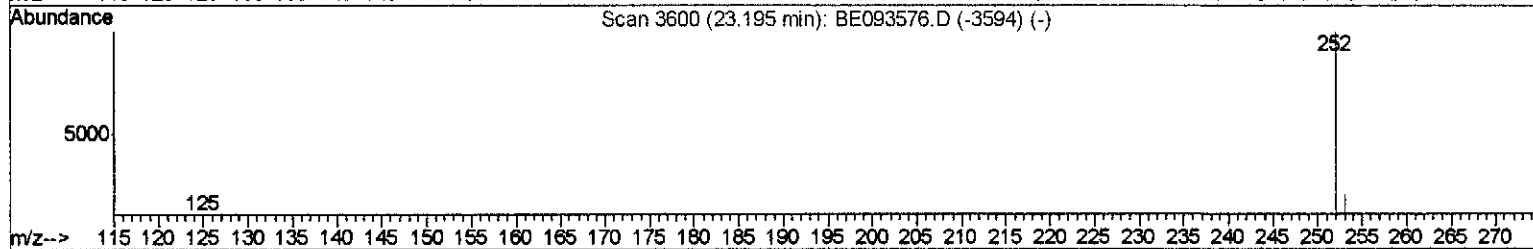
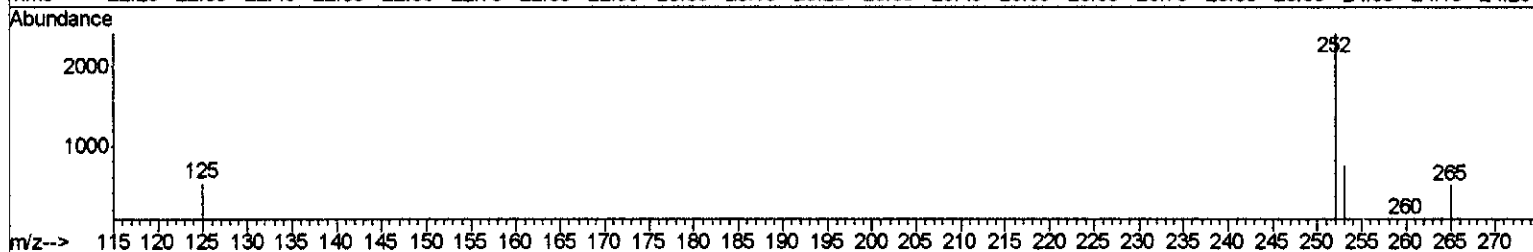
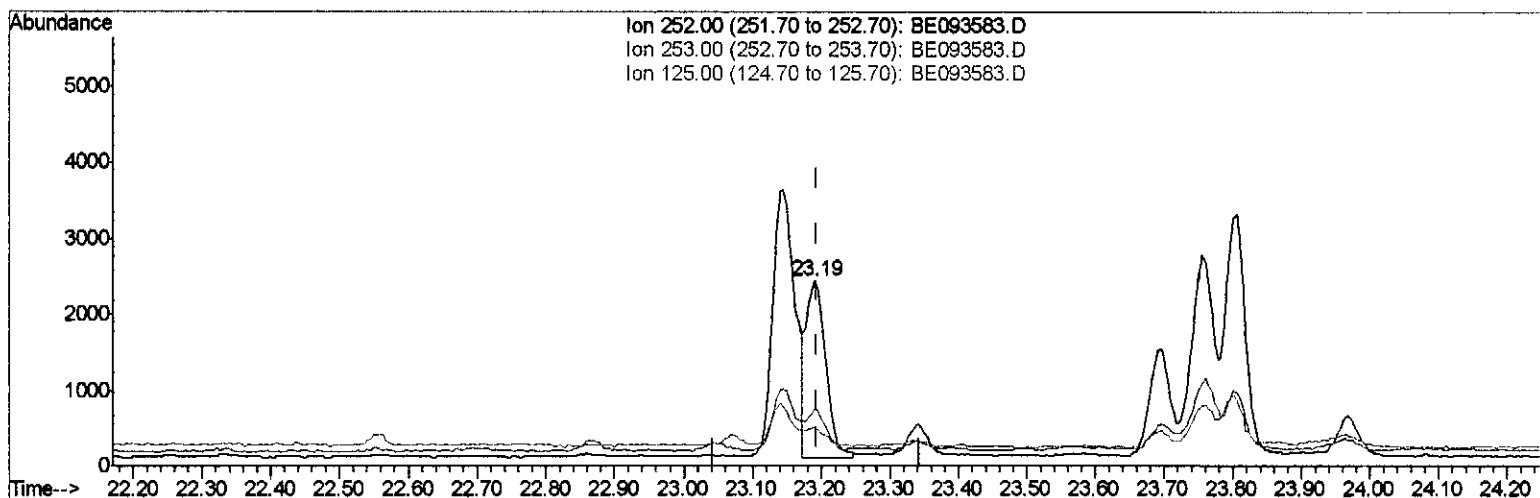
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(22) Benzo(k)fluoranthene

23.191min (-0.004) 0.08ng/ul m

SJ 8/8/17

response 4503

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 30.60 | 31.13  |
| 125.00 | 17.10 | 21.26# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

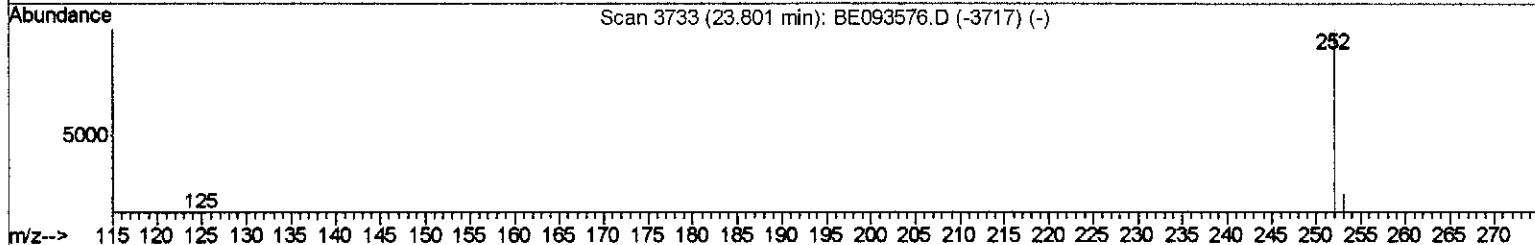
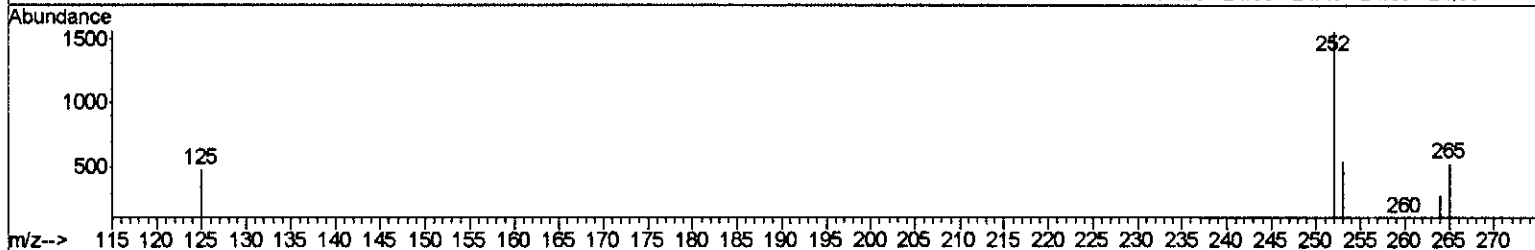
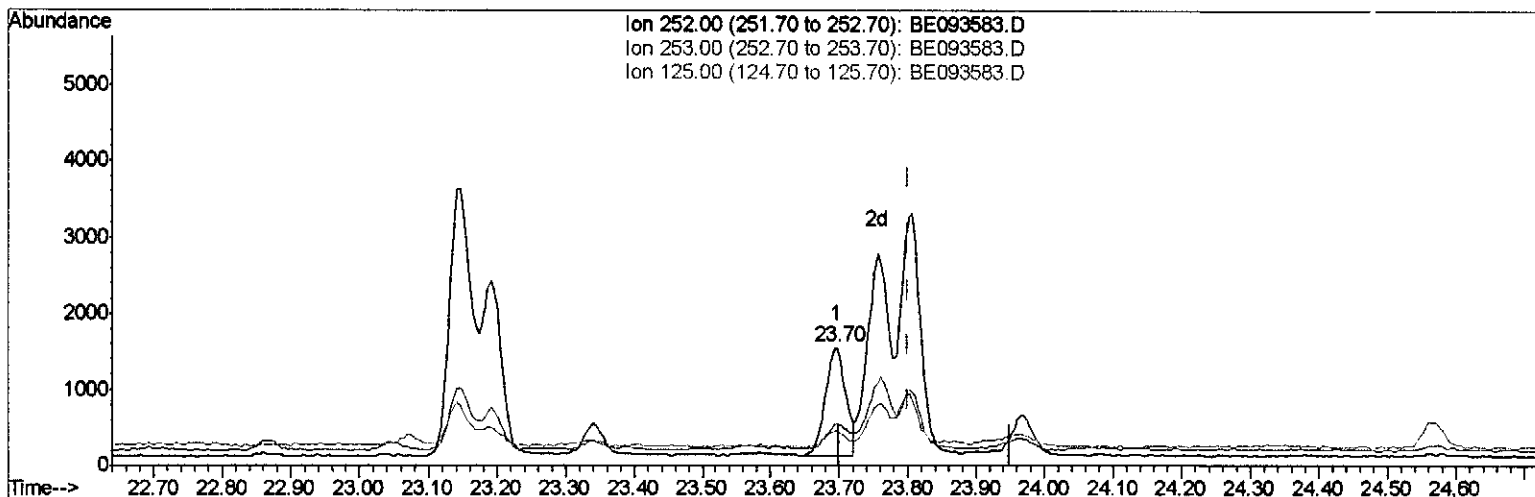
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
 Data File : BE093583.D  
 Acq On : 25 Jul 2017 18:40  
 Operator : SJ/JU  
 Sample : I4213-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0B30

Manual Integrations  
 APPROVED

Sohil  
 7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 18:00:47 2017  
 Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.696min (-0.104) 0.05ng/ul

response 2930

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 35.60 | 35.66  |
| 125.00 | 22.60 | 31.05# |
| 0.00   | 0.00  | 0.00   |

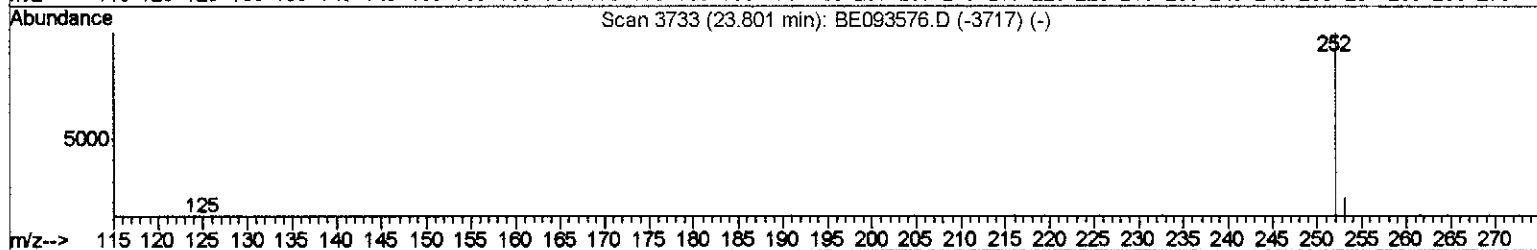
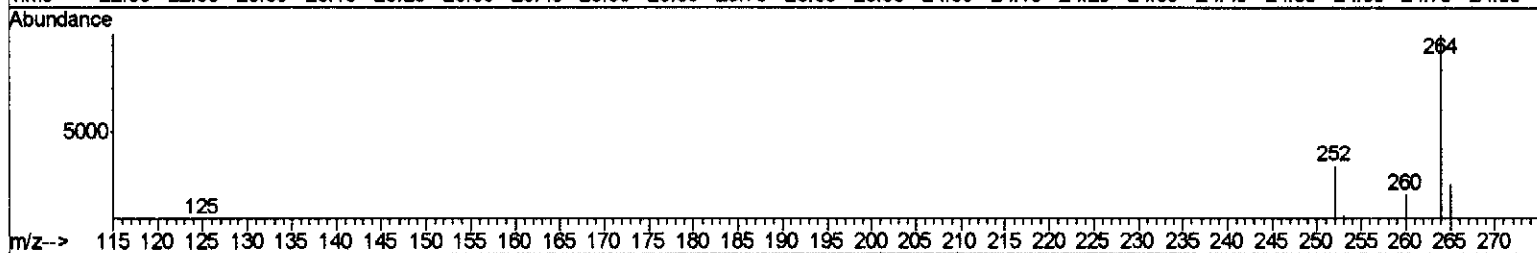
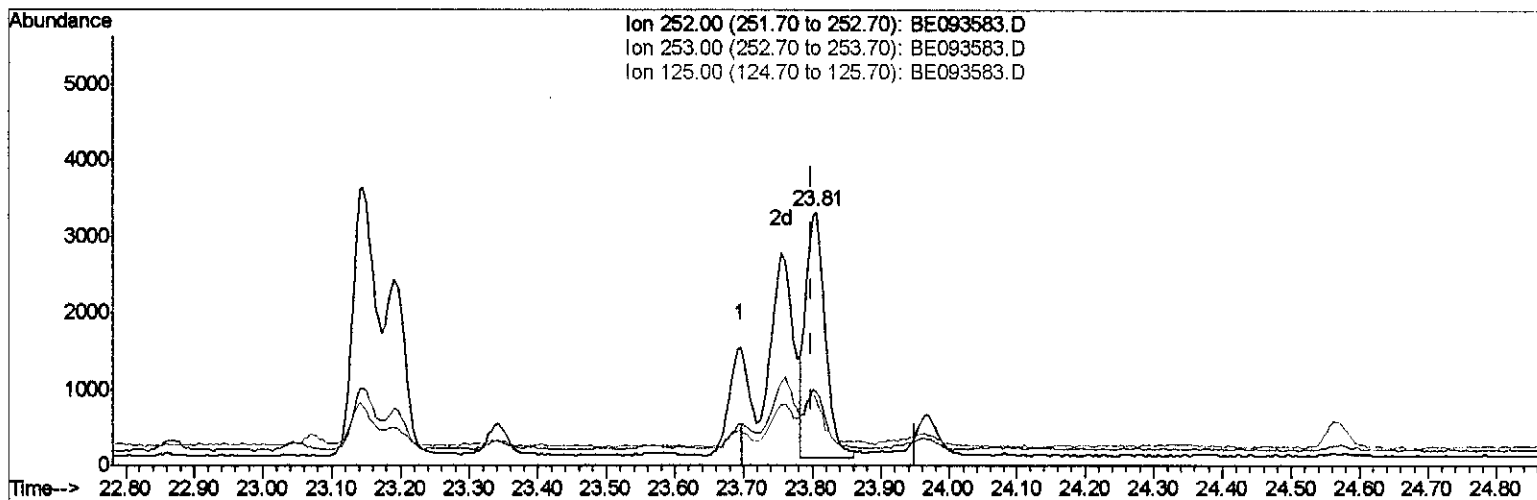
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(23) Benzo(a)pyrene (C)

23.806min (+0.005) 0.11ng/ul m

SJ 8/8/12

response 6337

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 35.60 | 29.19 |
| 125.00 | 22.60 | 26.37 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

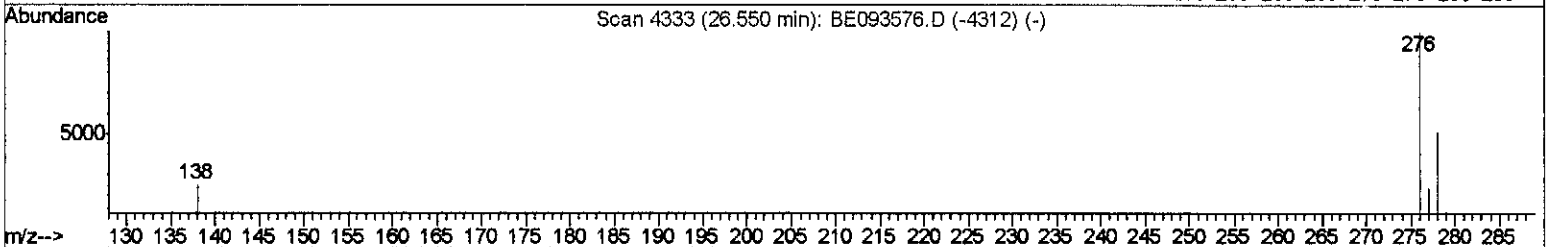
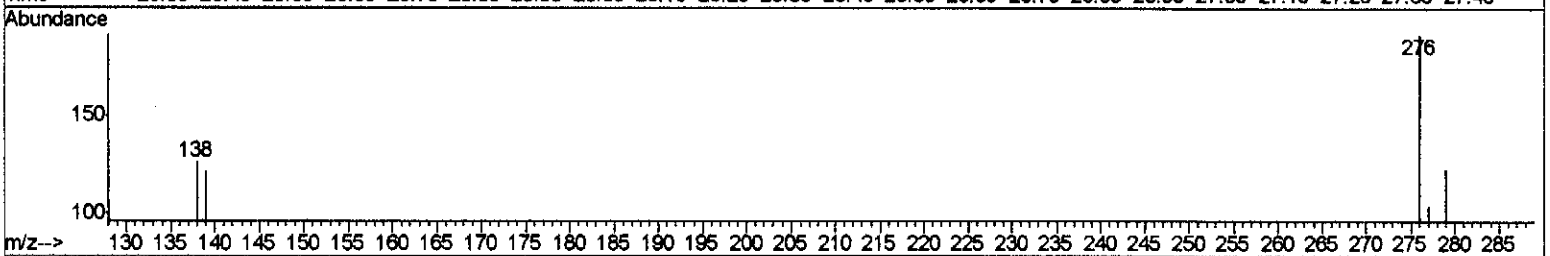
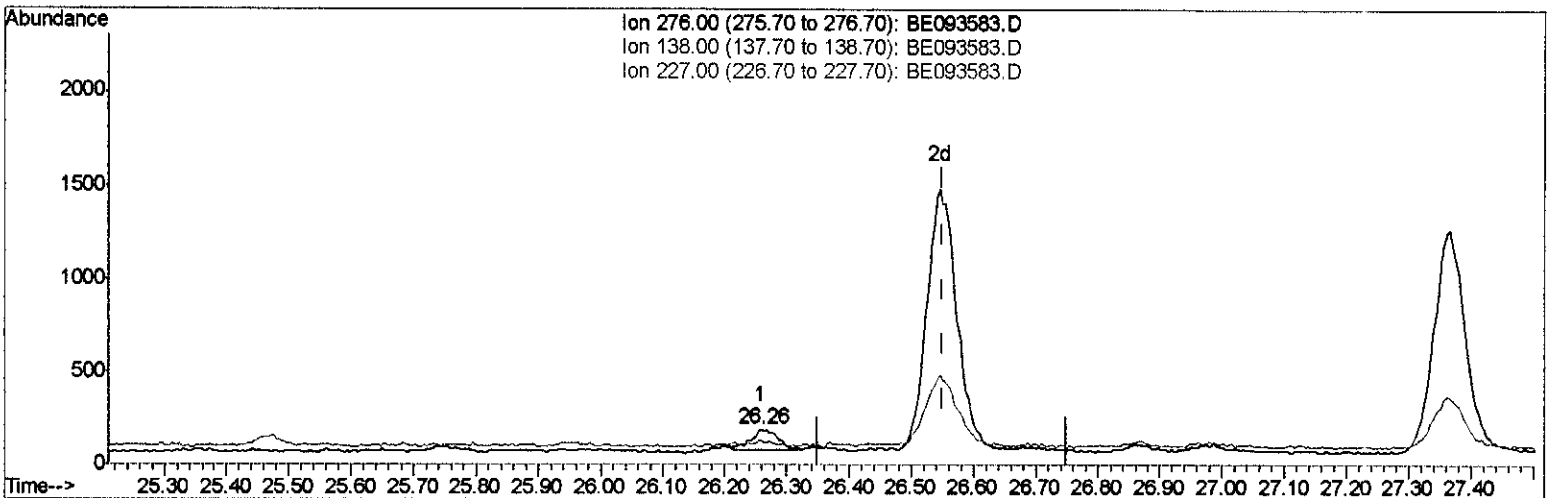
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
 Data File : BE093583.D  
 Acq On : 25 Jul 2017 18:40  
 Operator : SJ/JU  
 Sample : I4213-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0B30

Manual Integrations  
 APPROVED

Sohil  
 7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 18:00:47 2017  
 Response via : Initial Calibration



TIC: BE093583.D

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

26.259min (-0.292) 0.01ng/ul

response 350

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 35.00 | 18.00# |
| 227.00 | 10.00 | 0.00#  |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

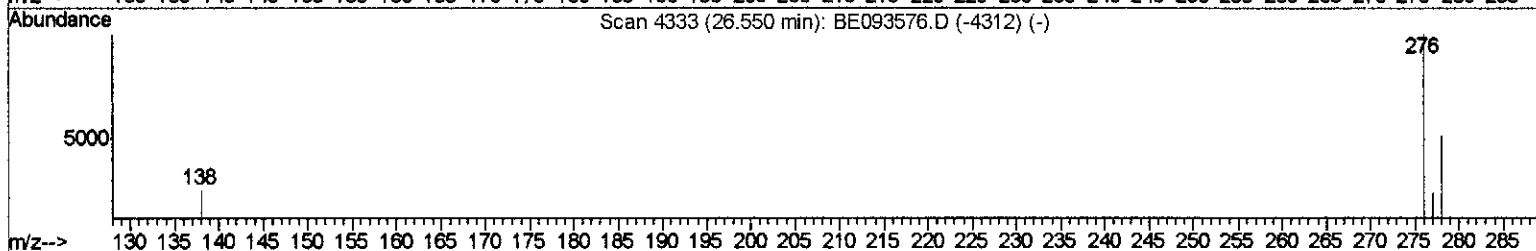
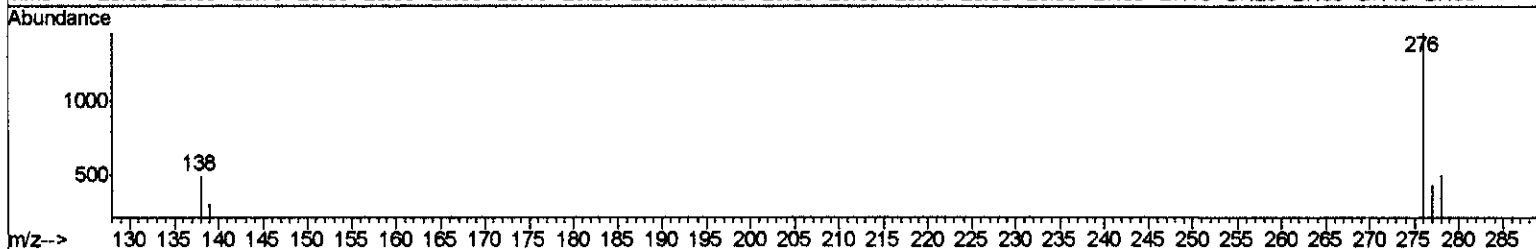
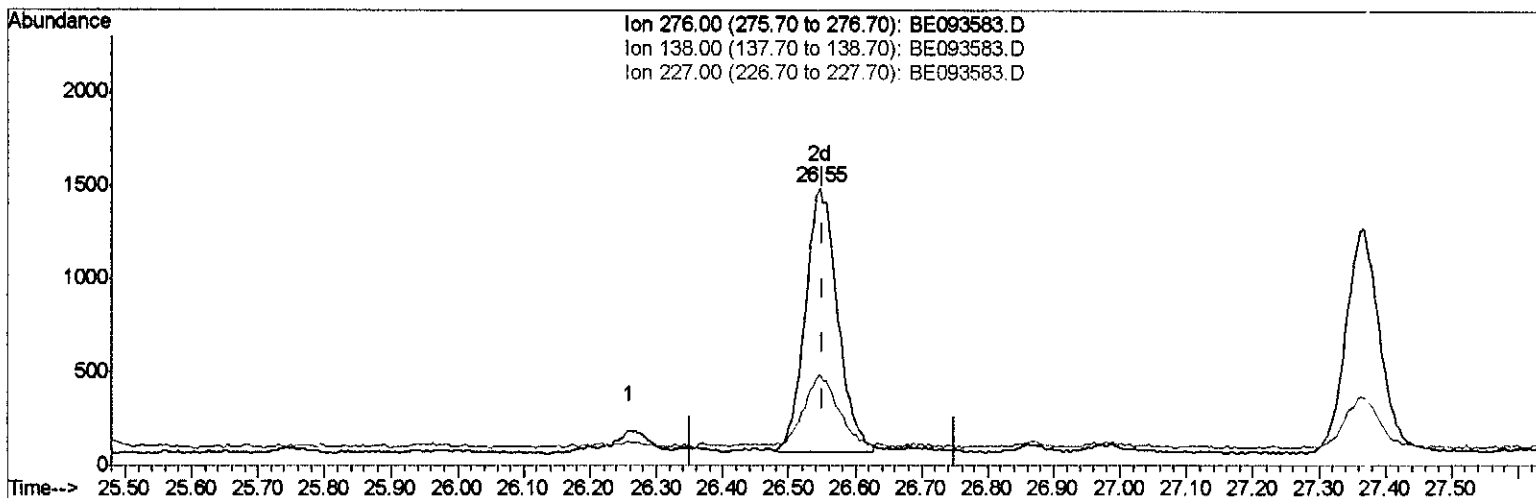
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampled :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

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

26.546min (-0.005) 0.08ng/ul m

SJ 8/8/17

response 4716

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 35.00 | 1.34# |
| 227.00 | 10.00 | 0.00# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

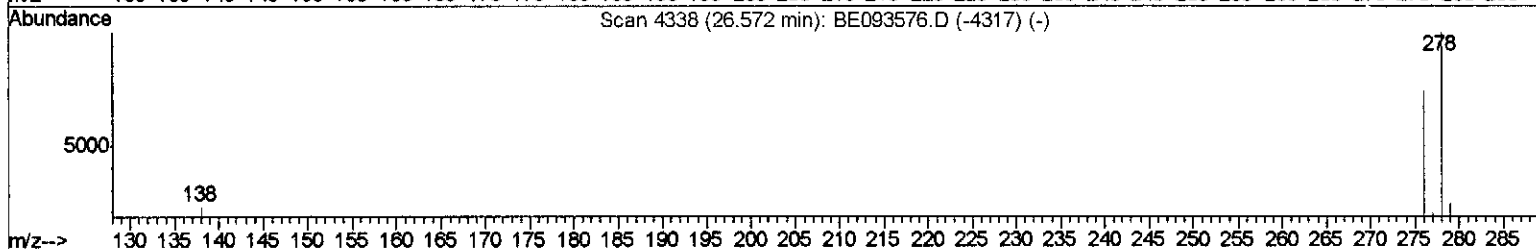
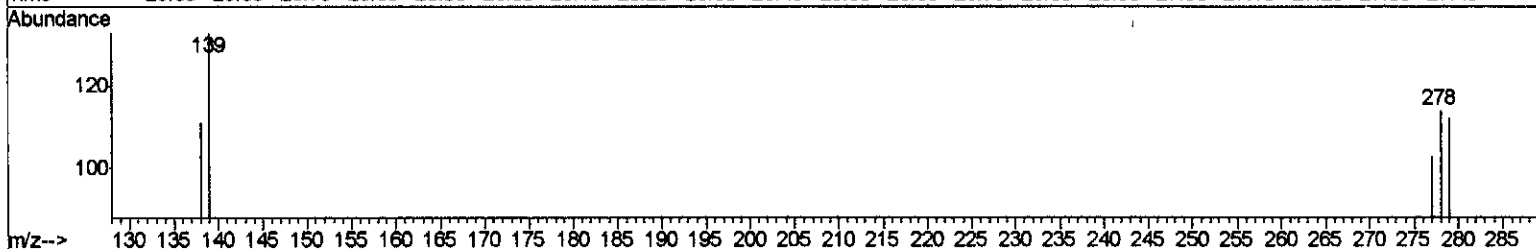
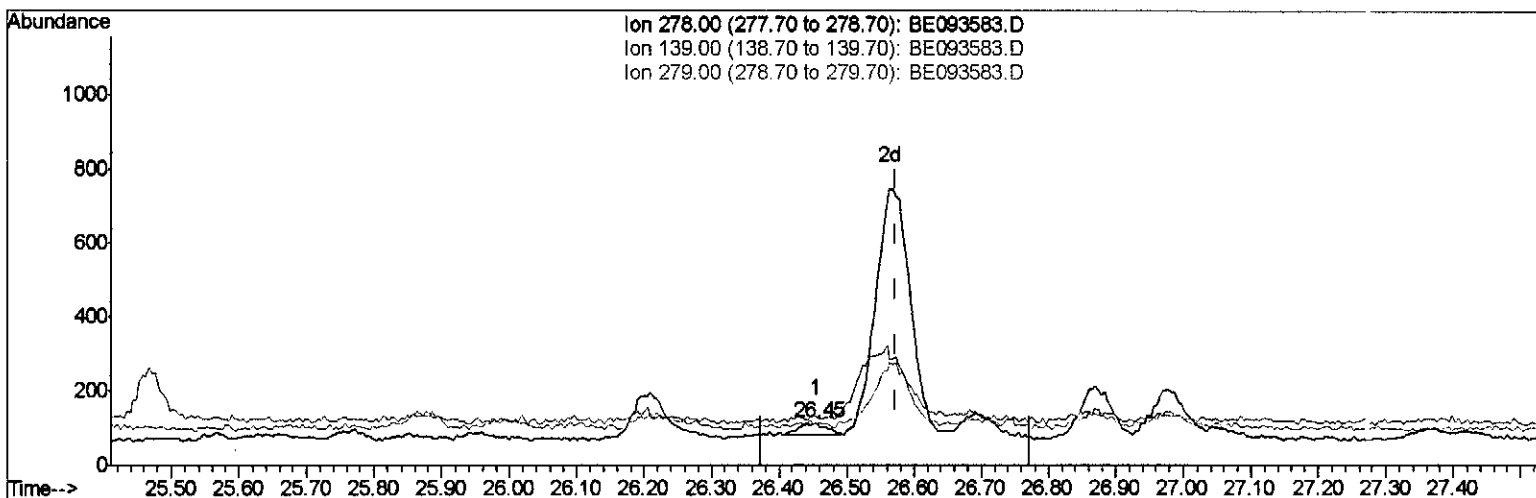
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
 Data File : BE093583.D  
 Acq On : 25 Jul 2017 18:40  
 Operator : SJ/JU  
 Sample : I4213-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0B30

Manual Integrations  
 APPROVED

Sohil  
 7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 18:00:47 2017  
 Response via : Initial Calibration



TIC: BE093583.D

(25) Dibenzo(a,h)anthracene

26.455min (-0.119) 0.00ng/ul

response 86

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 278.00 | 100   | 100     |
| 139.00 | 21.70 | 116.67# |
| 279.00 | 32.40 | 98.25#  |
| 0.00   | 0.00  | 0.00    |

## Quantitation Report (Qedit)

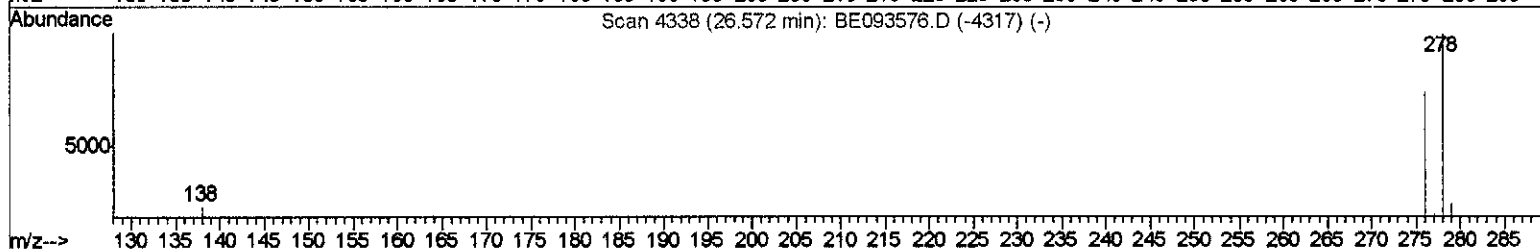
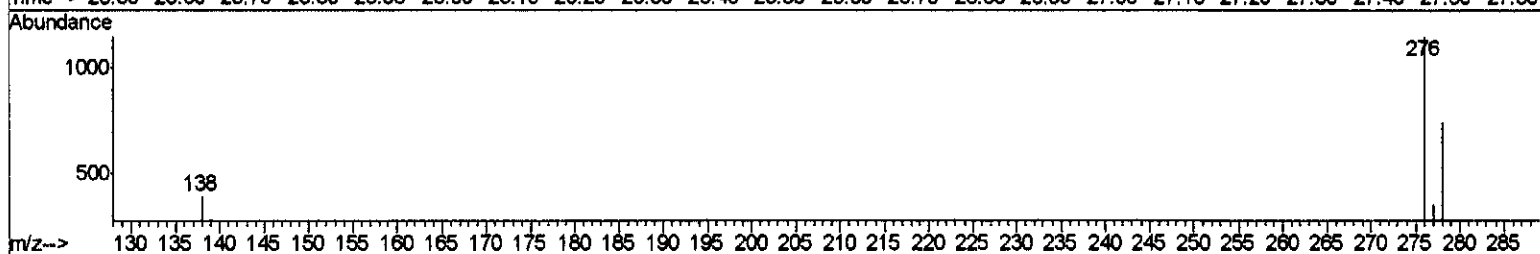
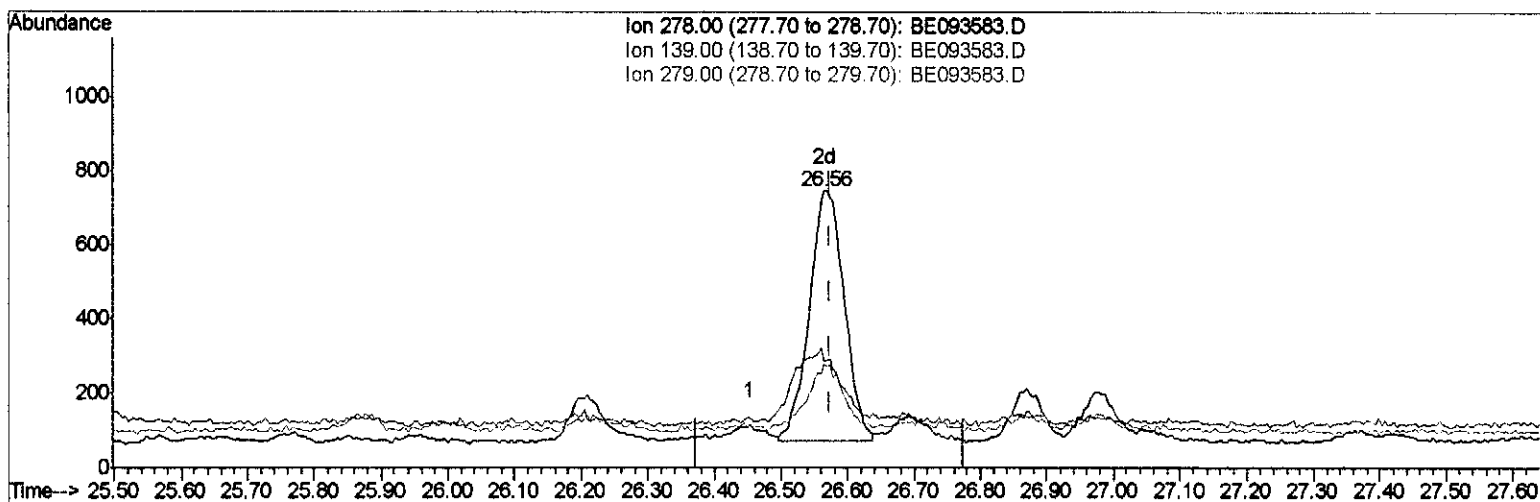
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(25) Dibenzo(a,h)anthracene

26.564min (-0.010) 0.05ng/ul m

response 2451

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 21.70 | 38.39# |
| 279.00 | 32.40 | 37.18  |
| 0.00   | 0.00  | 0.00   |

SJ  
8/8/17

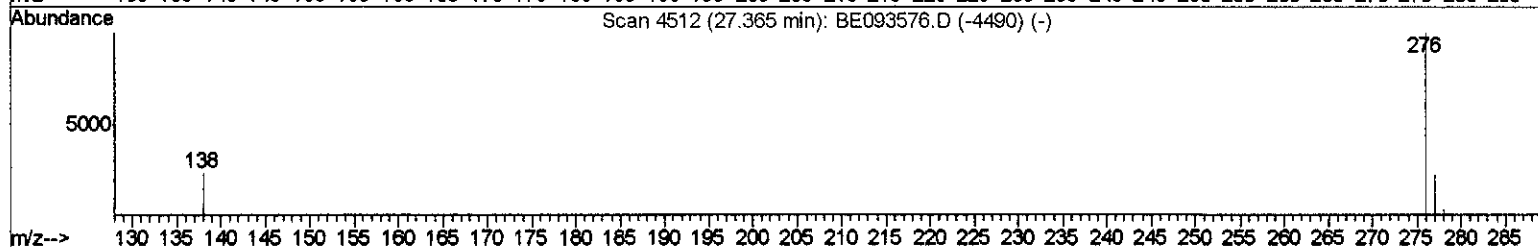
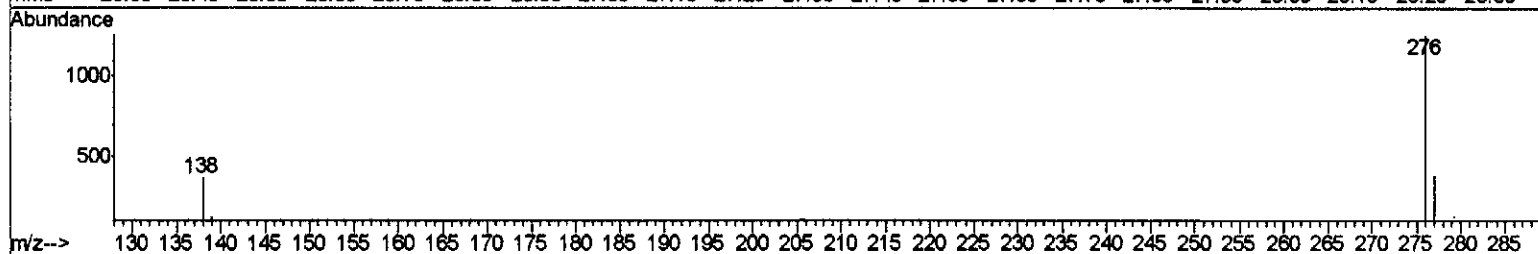
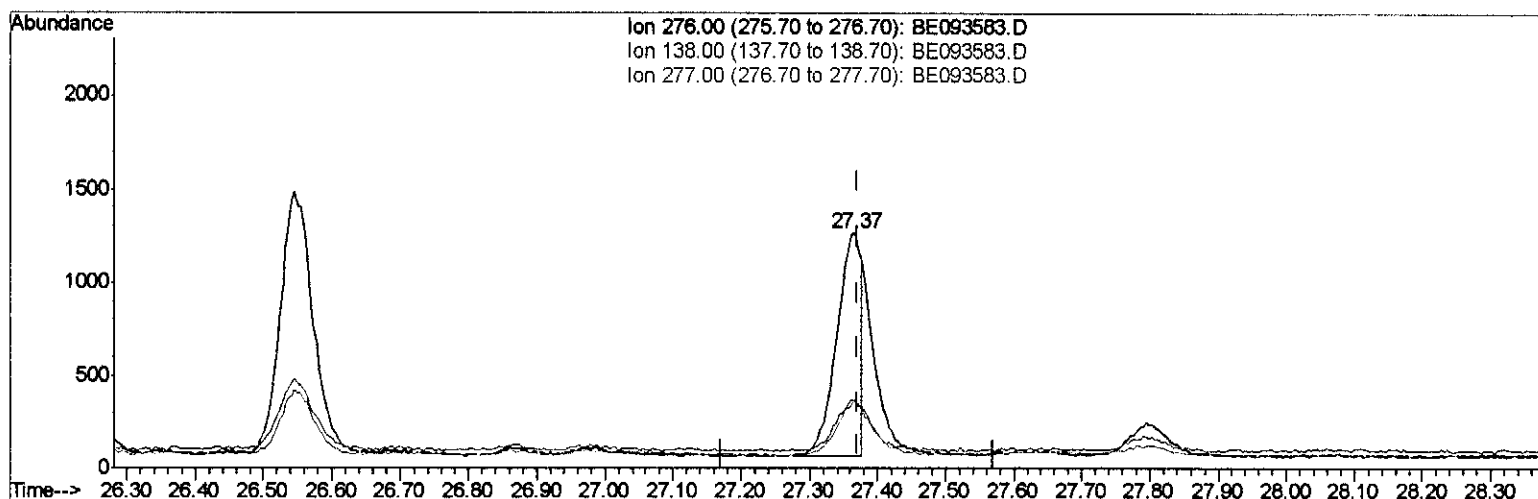
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(26) Benzo(g,h,i)perylene

27.366min (-0.005) 0.06ng/ui

response 2902

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 27.30 | 28.62 |
| 277.00 | 25.60 | 29.64 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

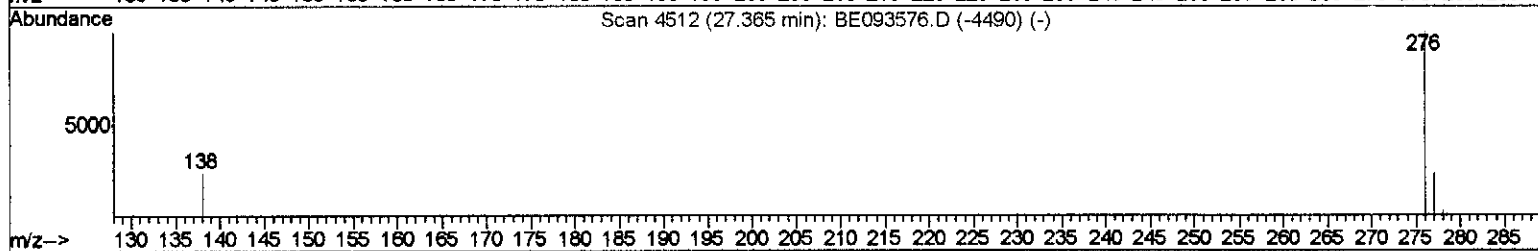
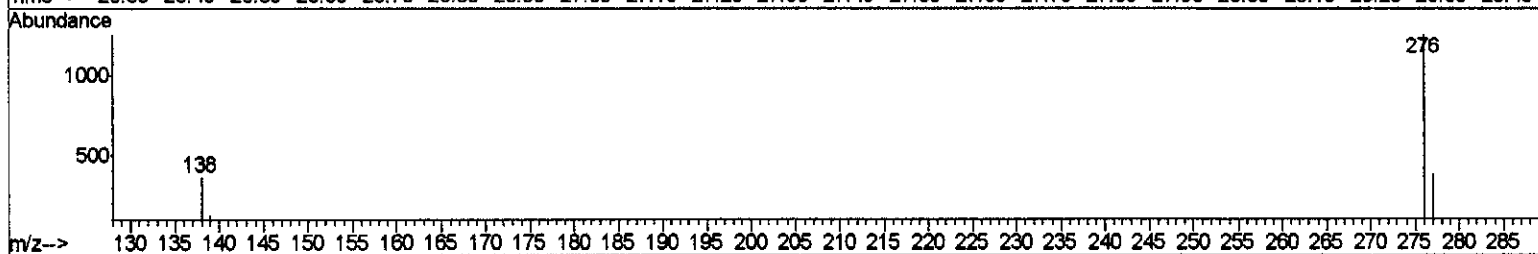
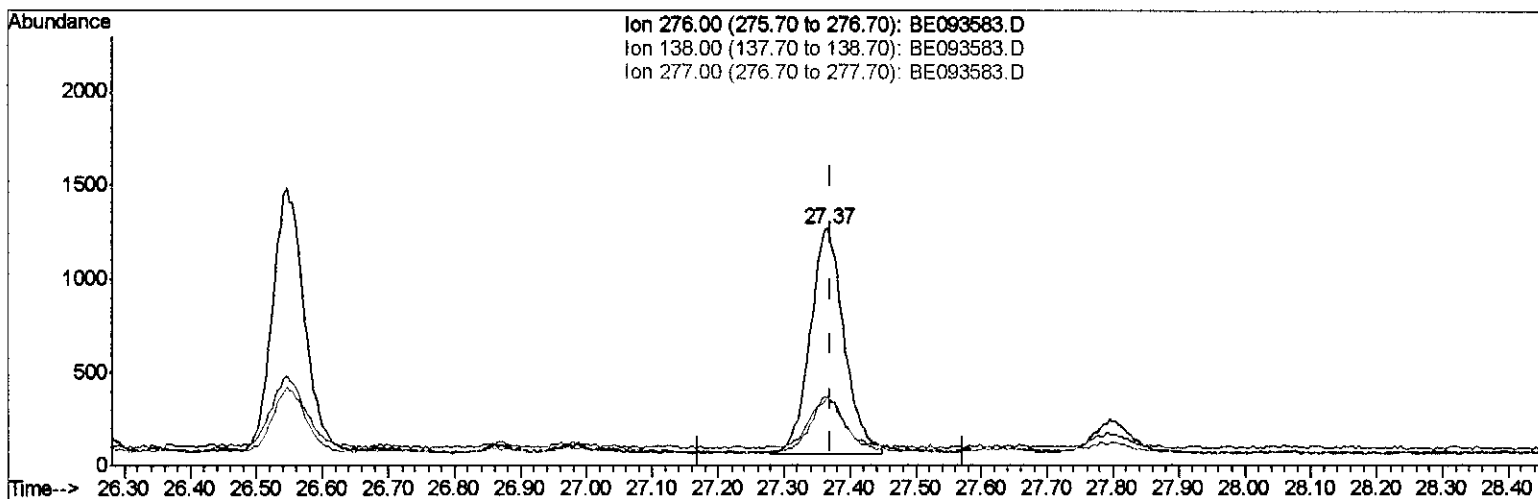
Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
Data File : BE093583.D  
Acq On : 25 Jul 2017 18:40  
Operator : SJ/JU  
Sample : I4213-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0B30

Manual Integrations  
APPROVED

Sohil  
7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:18:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 18:00:47 2017  
Response via : Initial Calibration



TIC: BE093583.D

(26) Benzo(g,h,i)perylene

27.366min (-0.005) 0.08ng/ul m

response 4305

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 27.30 | 28.62 |
| 277.00 | 25.60 | 29.64 |
| 0.00   | 0.00  | 0.00  |

SJ  
8/8/12

Data Path : Z:\HPCHEM1\BNA\_E\Data\BE072517\  
 Data File : BE093583.D  
 Acq On : 25 Jul 2017 18:40  
 Operator : SJ/JU  
 Sample : I4213-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0B30

Manual Integrations  
 APPROVED

Sohil  
 7/26/2017 5:55:53 PM

Quant Time: Jul 25 19:22:14 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 18:00:47 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 2547     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.71 | 136  | 13514    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.53 | 164  | 8988     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 20850m   | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.41 | 240  | 22531    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.91 | 264  | 18853m   | 0.40 | ng/ul | 0.00     |

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| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152  | 6696     | 0.31 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.28 | 212  | 20735    | 0.32 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.76 | 128  | 1301     | 0.040 | ng/ul# | 90     |
| 12) Phenanthrene           | 17.29 | 178  | 3435     | 0.060 | ng/ul# | 89     |
| 13) Anthracene             | 17.38 | 178  | 2212     | 0.040 | ng/ul# | 82     |
| 15) Fluoranthene           | 19.30 | 202  | 9287     | 0.131 | ng/ul  | 84     |
| 17) Pyrene                 | 19.66 | 202  | 12159    | 0.185 | ng/ul# | 86     |
| 18) Benzo(a)anthracene     | 21.39 | 228  | 6420     | 0.098 | ng/ul# | 87     |
| 19) Chrysene               | 21.45 | 228  | 6003     | 0.096 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 23.15 | 252  | 7976     | 0.137 | ng/ul  | 92     |
| 22) Benzo(k)fluoranthene   | 23.19 | 252  | 4503m    | 0.078 | ng/ul  |        |
| 23) Benzo(a)pyrene         | 23.81 | 252  | 6337m    | 0.114 | ng/ul  |        |
| 24) Indeno(1,2,3-cd)pyrene | 26.55 | 276  | 4716m    | 0.077 | ng/ul  |        |
| 25) Dibenzo(a,h)anthracene | 26.56 | 278  | 2451m    | 0.048 | ng/ul  |        |
| 26) Benzo(g,h,i)perylene   | 27.37 | 276  | 4305m    | 0.083 | ng/ul  |        |

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