

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011519\  
 Data File : BE098634.D  
 Acq On : 15 Jan 2019 19:00  
 Operator : SJ/JU  
 Sample : K1029-05  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 50

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW12 123118

Manual Integrations  
 APPROVED

Sohil  
 1/16/2019 4:05:40 PM

Quant Time: Jan 16 10:09:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 15 14:30:55 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.80  | 152  | 59165    | 20.00  | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.60 | 136  | 235974   | 20.00  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.47 | 164  | 149687   | 20.00  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.23 | 188  | 361648   | 20.00  | ng    | 0.00     |
| 27) Chrysene-d12               | 21.42 | 240  | 406997   | 20.00  | ng    | 0.00     |
| 34) Perylene-d12               | 23.92 | 264  | 414350   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 4) 2-Fluorophenol              | 5.39  | 112  | 201740   | 63.92  | ng    | 0.00     |
| 5) Phenol-d6                   | 6.98  | 99   | 180816   | 40.23  | ng    | -0.02    |
| 8) Nitrobenzene-d5             | 8.96  | 82   | 585042   | 156.29 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.21 | 152  | 40       | 0.01   | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.97 | 330  | 285187   | 218.94 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.10 | 172  | 1160115  | 94.62  | ng    | 0.01     |
| 25) Fluoranthene-d10           | 19.26 | 212  | 21       | 0.00   | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.86 | 244  | 1993610  | 110.69 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 22) Pentachlorophenol          | 16.89 | 266  | 50       | 10.215 | ng    | # 80     |
| 23) Phenanthrene               | 17.27 | 178  | 693      | 0.040  | ng    | # 83     |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 1418m    | 0.065  | ng    |          |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149  | 12263    | 0.264  | ng    | 100      |

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

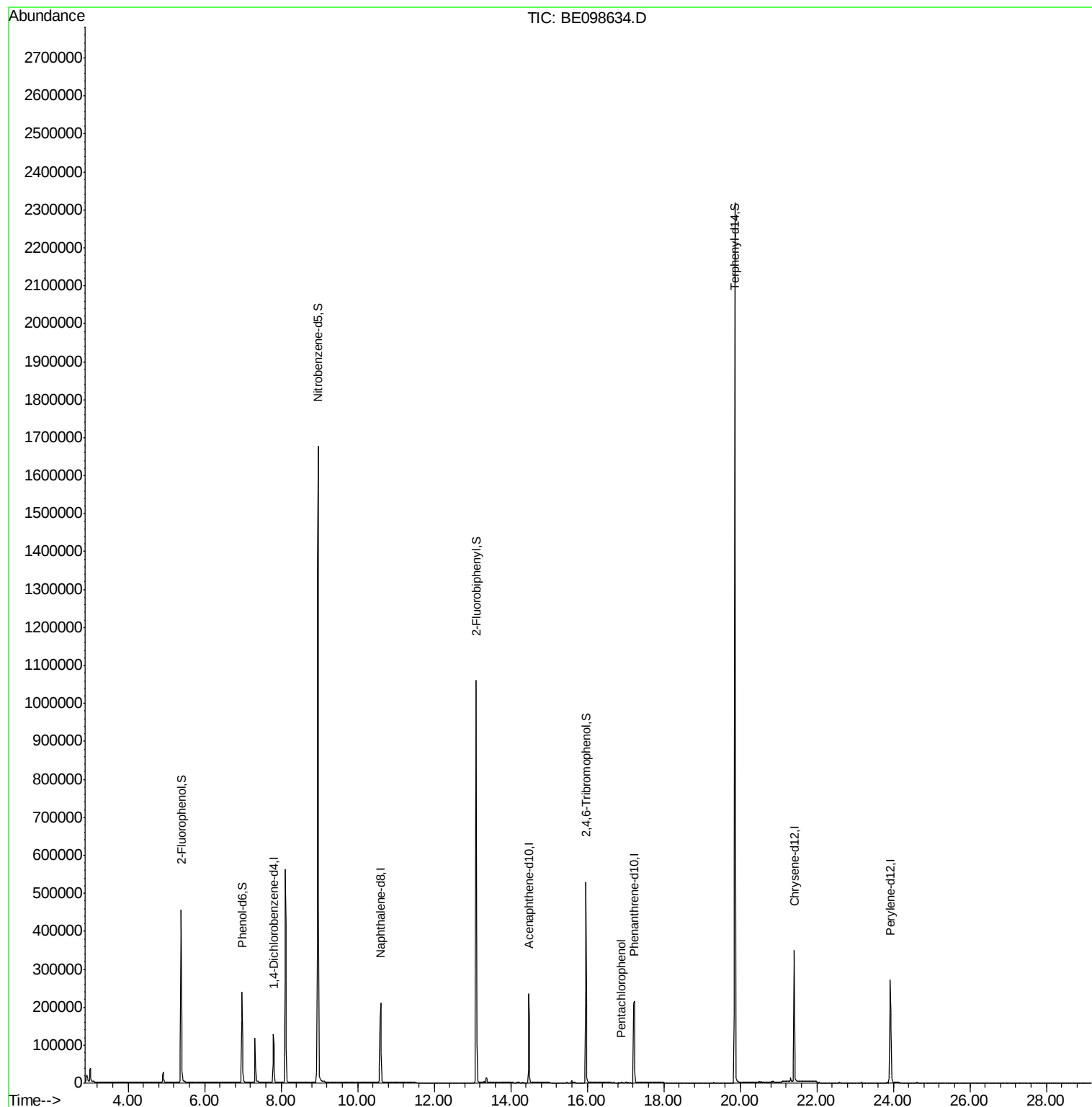
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011519\  
Data File : BE098634.D  
Acq On : 15 Jan 2019 19:00  
Operator : SJ/JU  
Sample : K1029-05  
Misc :  
ALS Vial : 15 Sample Multiplier: 50

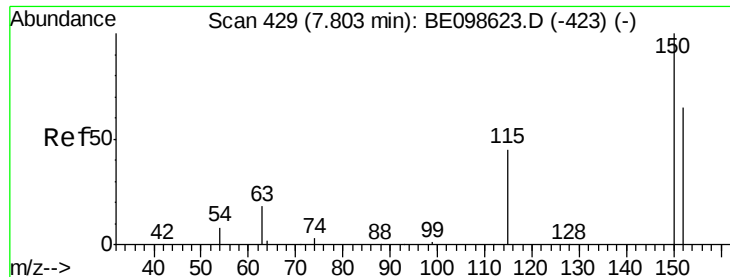
Instrument :  
BNA\_E  
ClientSampleId :  
MW12 123118

Manual Integrations  
APPROVED

Sohil  
1/16/2019 4:05:40 PM

Quant Time: Jan 16 10:09:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 15 14:30:55 2019  
Response via : Initial Calibration





#1

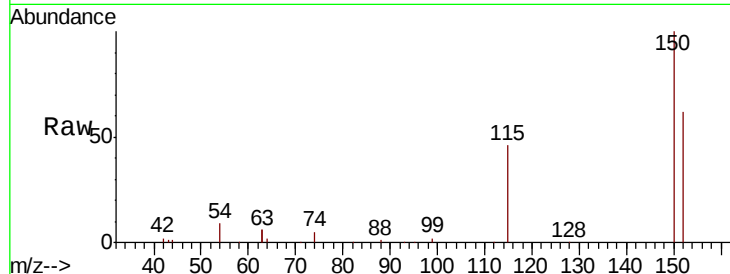
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.80 min Scan# 428  
Delta R.T. -0.01 min  
Lab File: BE098634.D  
Acq: 15 Jan 2019 19:00

Instrument :  
BNA\_E  
ClientSampleId :  
MW12\_123118

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.6 | 121.4 | 182.2 |
| 115     | 73.3  | 59.1  | 88.7  |

Manual Integrations  
APPROVED

Sohil  
1/16/2019 4:05:40 PM

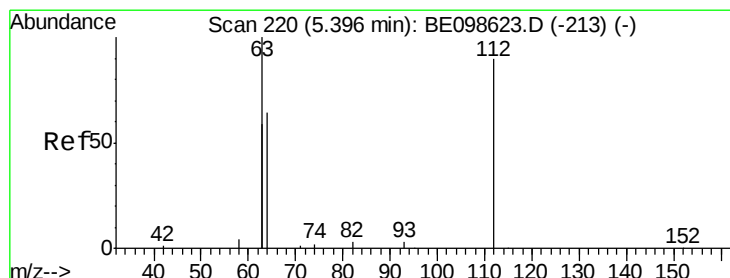
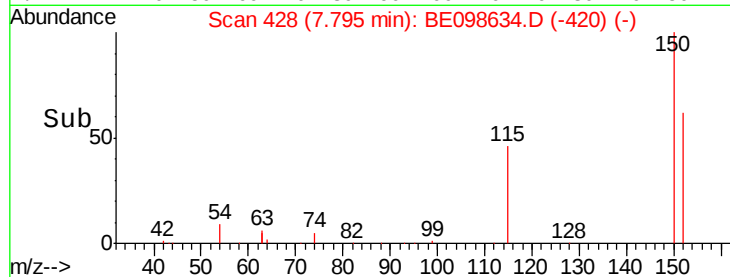
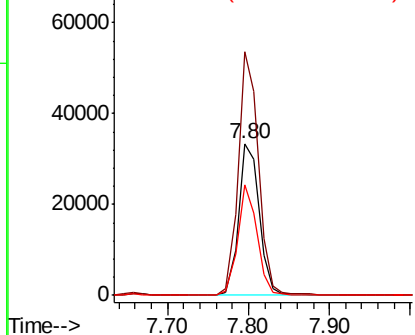


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

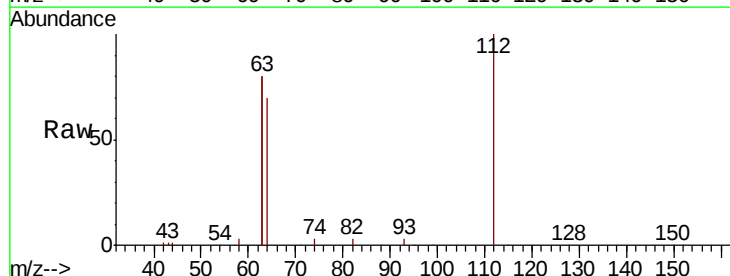
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 63.919 ng  
RT: 5.39 min Scan# 219  
Delta R.T. -0.01 min  
Lab File: BE098634.D  
Acq: 15 Jan 2019 19:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 80.0  | 62.9  | 94.3  |
| 63      | 192.5 | 152.2 | 228.4 |

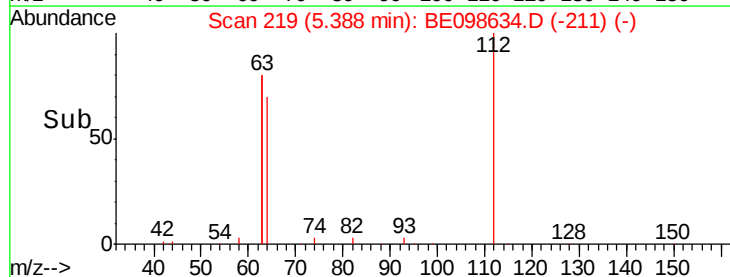
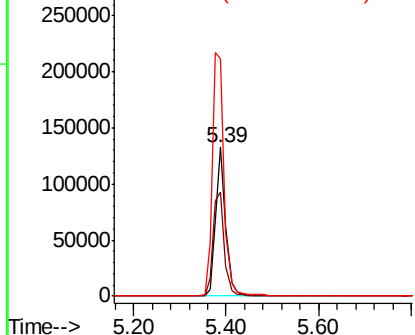


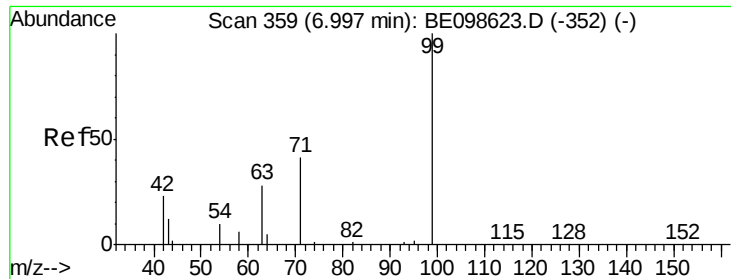
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 40.231 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.02 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

Instrument :

BNA\_E

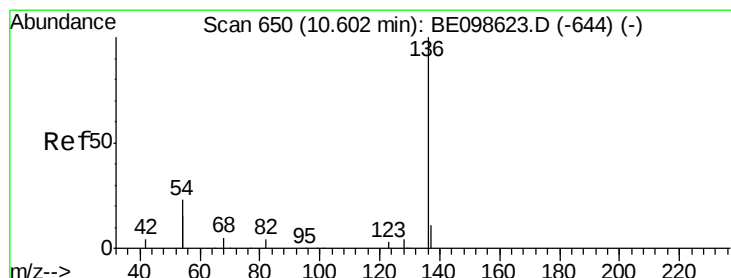
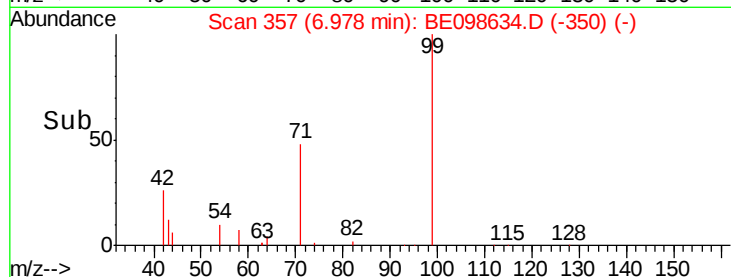
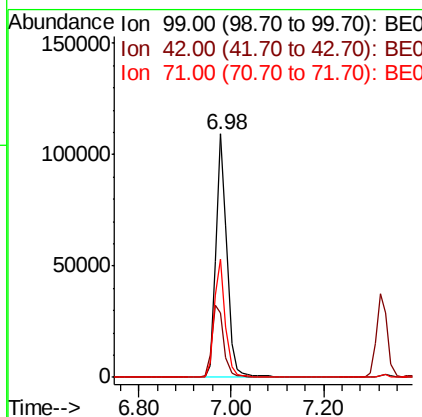
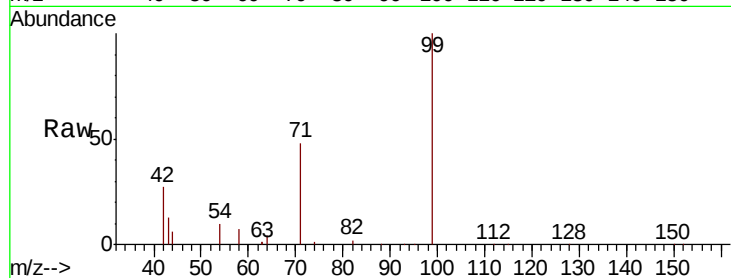
ClientSampled :

MW12 123118

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 180816 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 32.5  | 24.6  | 37.0   |
| 71       | 49.1  | 35.1  | 52.7   |

Manual Integrations  
APPROVED

Sohil  
1/16/2019 4:05:40 PM



#7

Naphthalene-d8

Concen: 20.000 ng

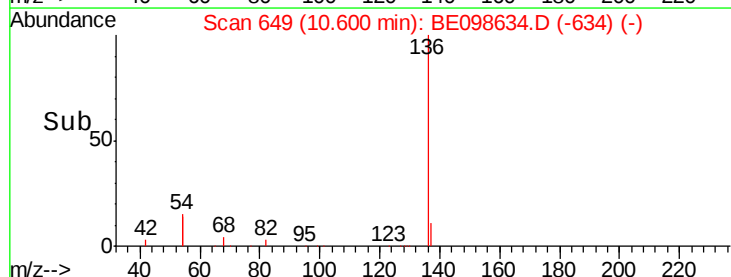
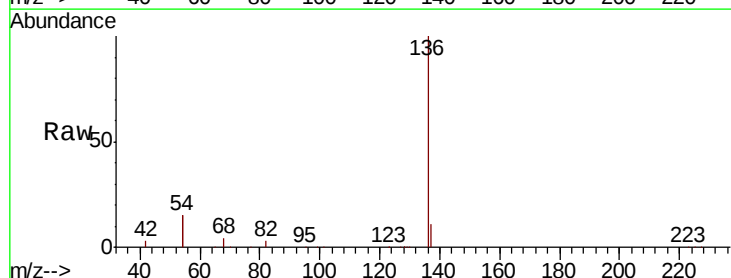
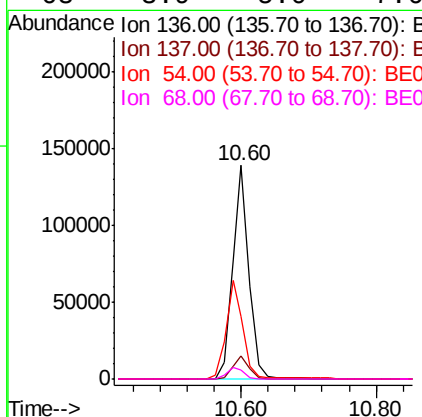
RT: 10.60 min Scan# 649

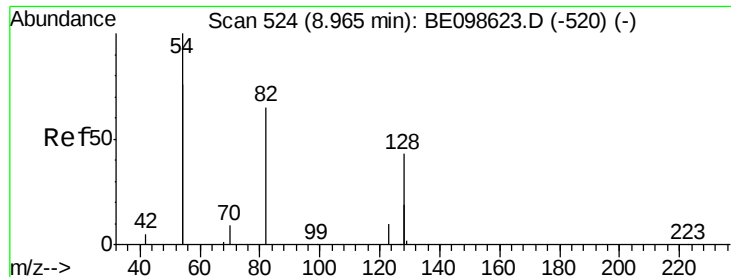
Delta R.T. -0.00 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 235974 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.7   | 14.5   |
| 54       | 29.4  | 35.5  | 53.3#  |
| 68       | 3.9   | 5.0   | 7.6#   |





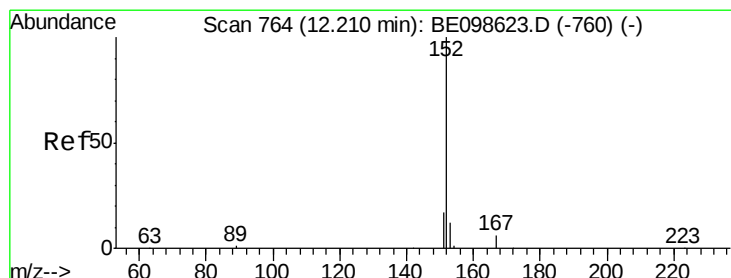
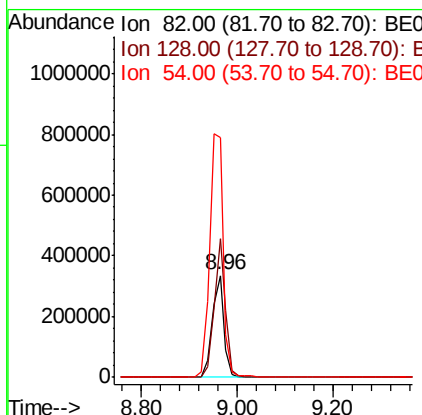
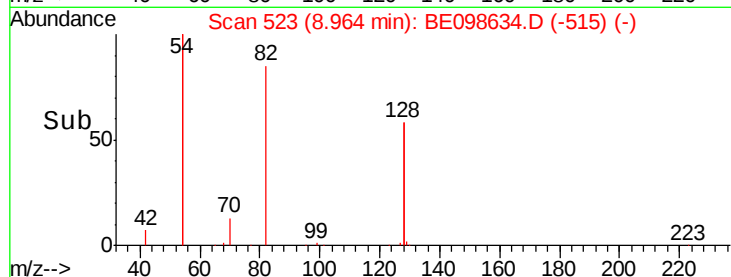
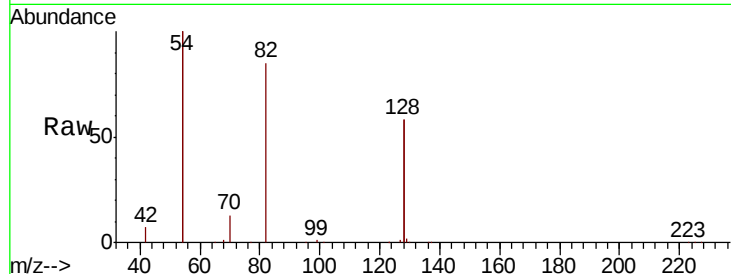
#8  
 Nitrobenzene-d5  
 Concen: 156.289 ng  
 RT: 8.96 min Scan# 523  
 Delta R.T. -0.00 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW12\_123118

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 136.2 | 96.5  | 144.7 |
| 54      | 235.3 | 224.7 | 337.1 |

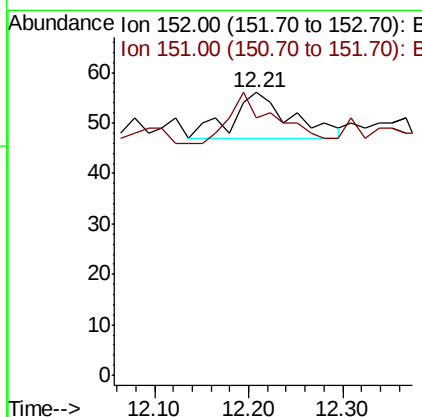
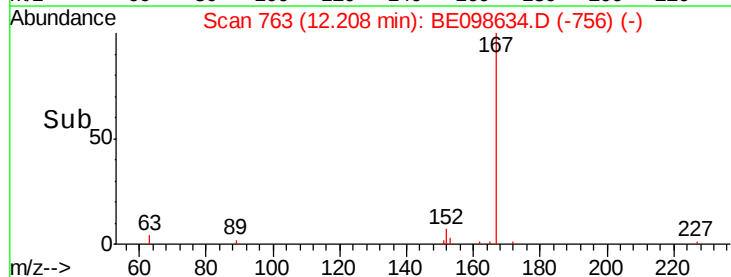
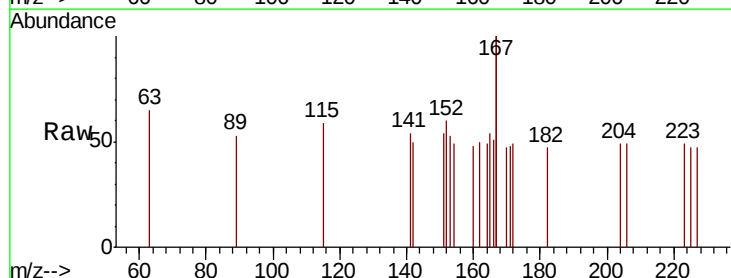
Manual Integrations  
 APPROVED

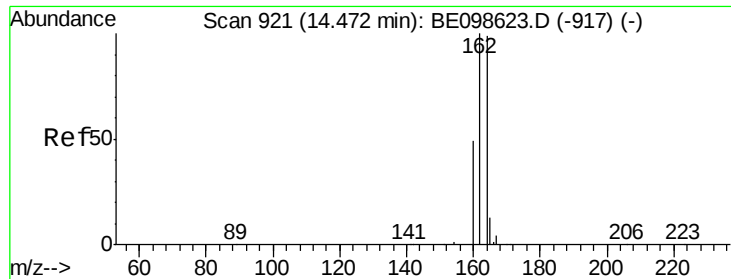
Sohil  
 1/16/2019 4:05:40 PM



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.005 ng  
 RT: 12.21 min Scan# 763  
 Delta R.T. -0.00 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 85.0  | 16.2  | 24.4# |





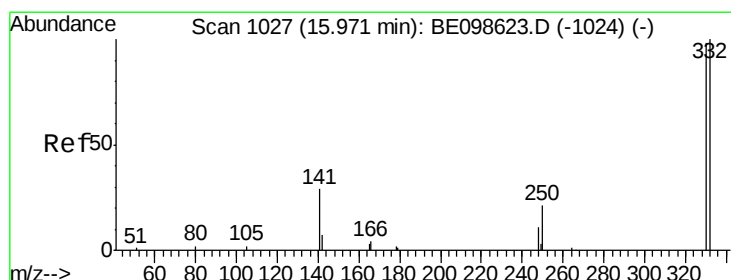
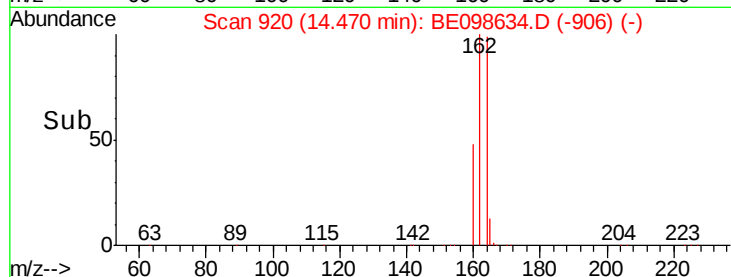
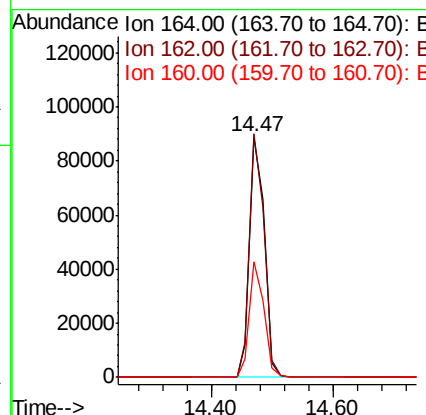
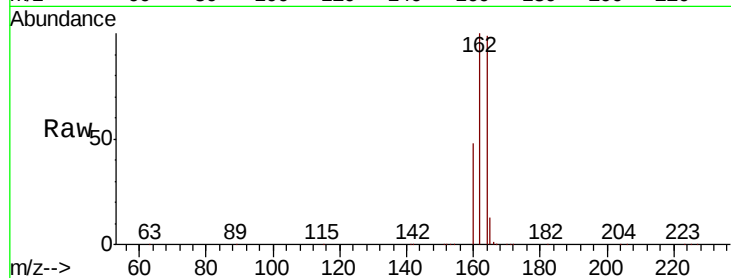
#13  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.47 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: BE098634.D  
Acq: 15 Jan 2019 19:00

Instrument :  
BNA\_E  
ClientSampleId :  
MW12\_123118

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.4 | 80.5  | 120.7 |
| 160     | 48.4  | 40.1  | 60.1  |

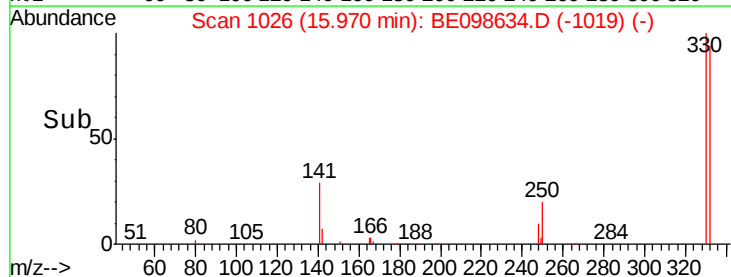
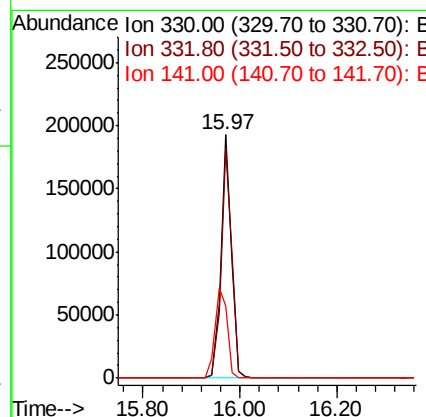
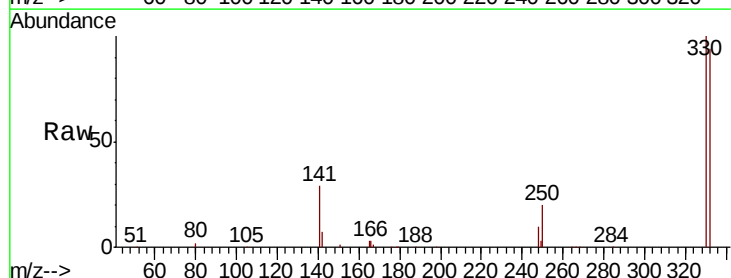
Manual Integrations  
APPROVED

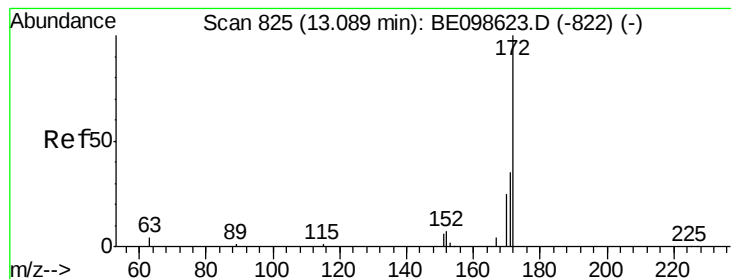
Sohil  
1/16/2019 4:05:40 PM



#14  
2,4,6-Tribromophenol  
Concen: 218.938 ng  
RT: 15.97 min Scan# 1026  
Delta R.T. -0.00 min  
Lab File: BE098634.D  
Acq: 15 Jan 2019 19:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 73.3  | 109.9 |
| 141     | 42.3  | 33.1  | 49.7  |





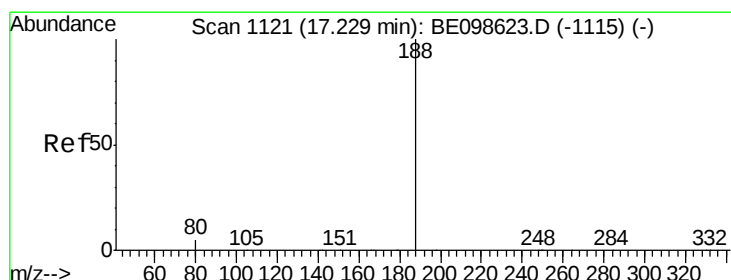
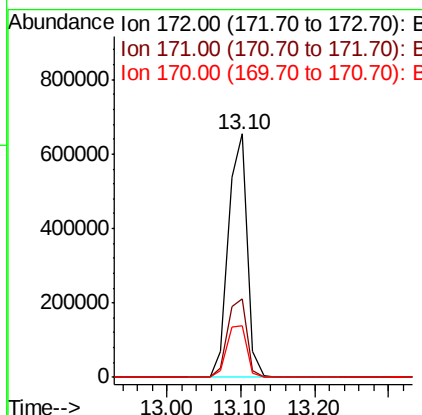
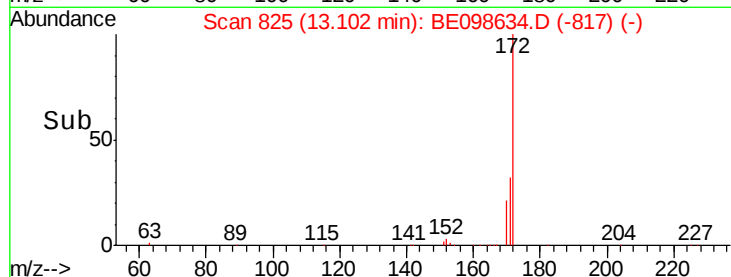
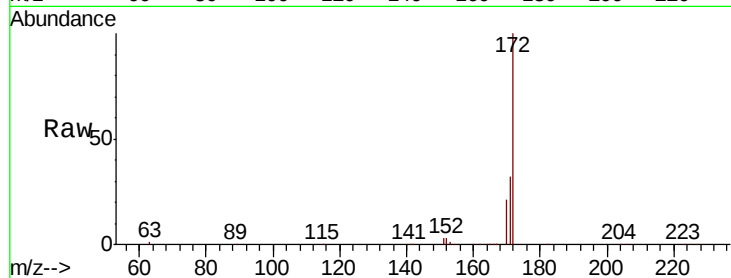
#15  
 2-Fluorobiphenyl  
 Concen: 94.616 ng  
 RT: 13.10 min Scan# 825  
 Delta R.T. 0.01 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW12\_123118

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 172     | 100  |       |       |       |
| 171     | 32.4 | 29.0  | 43.4  |       |
| 170     | 21.1 | 20.8  | 31.2  |       |

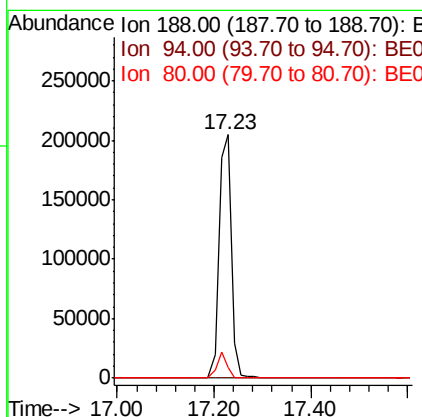
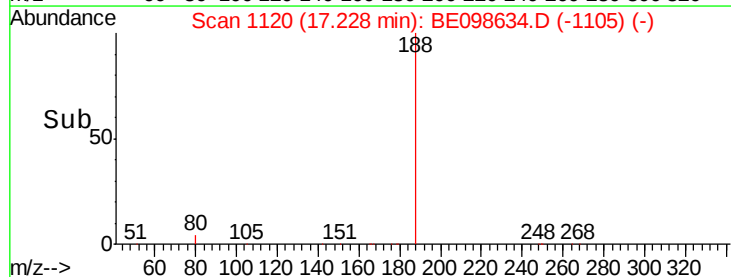
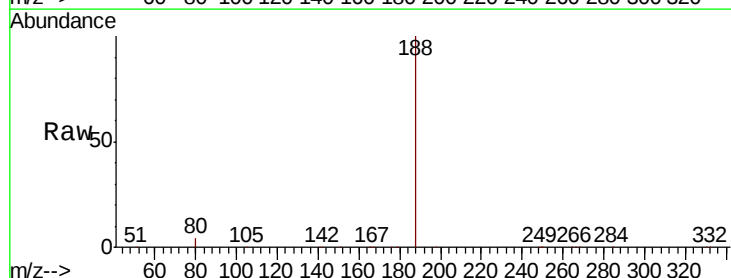
Manual Integrations  
 APPROVED

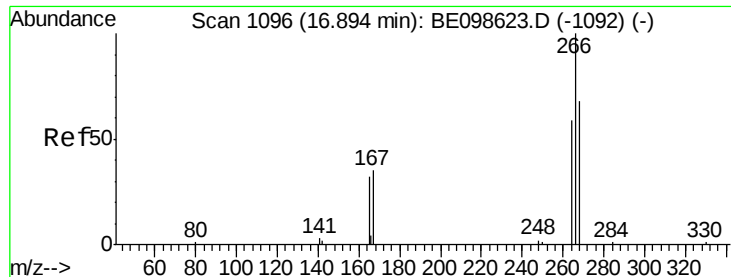
Sohil  
 1/16/2019 4:05:40 PM



#19  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.23 min Scan# 1120  
 Delta R.T. -0.00 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 188     | 100 |       |       |       |
| 94      | 0.0 | 0.0   | 0.0   |       |
| 80      | 4.4 | 4.7   | 7.1   |       |





#22

Pentachlorophenol

Concen: 10.215 ng

RT: 16.89 min Scan# 1095

Delta R.T. -0.00 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

Instrument :

BNA\_E

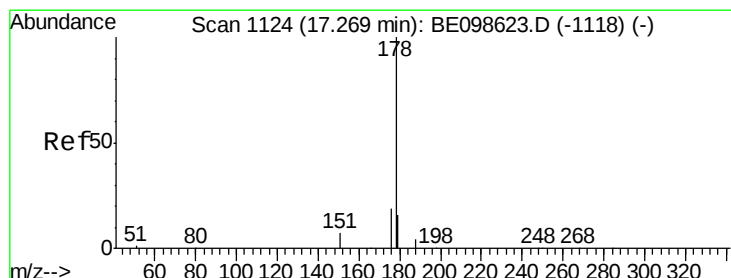
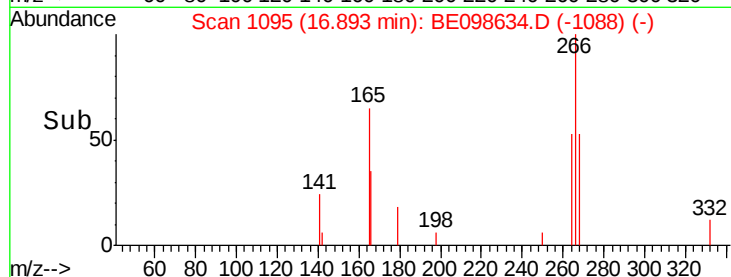
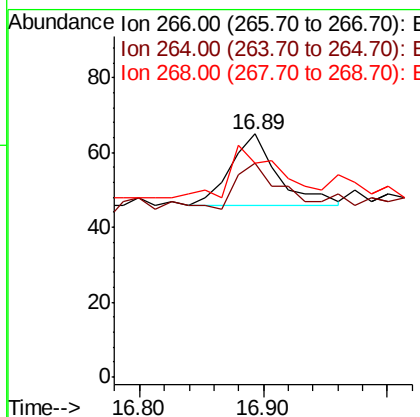
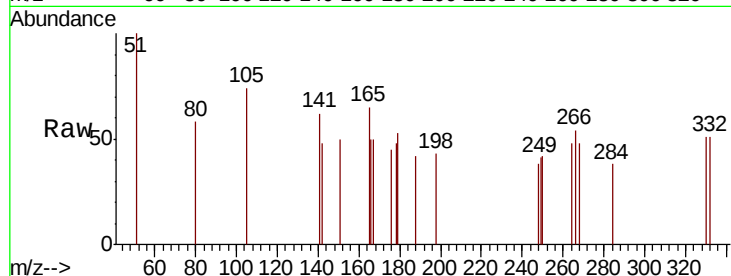
ClientSampleId :

MW12 123118

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 266   | Resp: | 50    |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 87.7  | 53.7  | 80.5# |
| 268       | 87.7  | 59.8  | 89.8  |

Manual Integrations  
APPROVED

Sohil  
1/16/2019 4:05:40 PM



#23

Phenanthrene

Concen: 0.040 ng

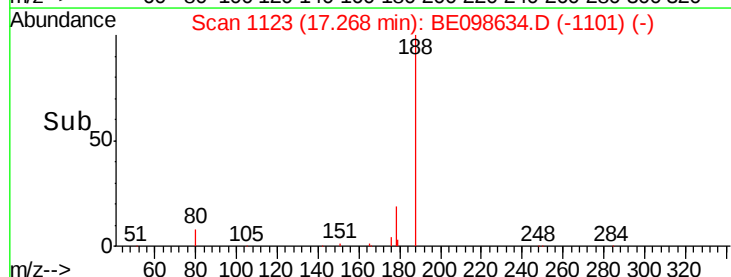
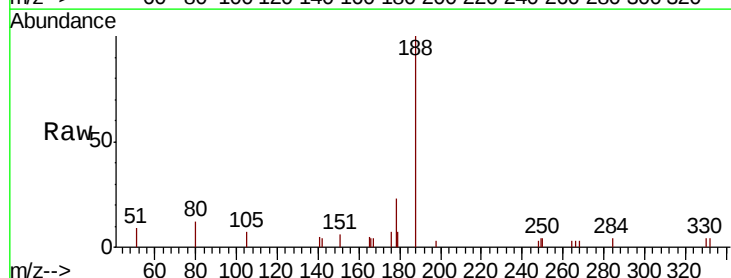
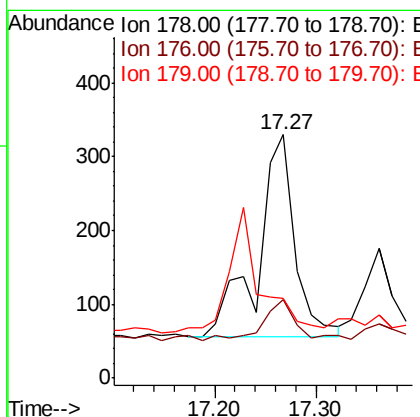
RT: 17.27 min Scan# 1123

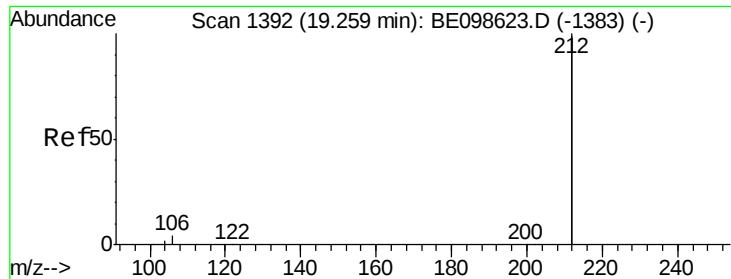
Delta R.T. -0.00 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 693   |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.6  | 15.9  | 23.9  |
| 179       | 0.0   | 12.2  | 18.4# |





#25

Fluoranthene-d10

Concen: 0.000 ng

RT: 19.26 min Scan# 1392

Delta R.T. 0.01 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

Instrument :

BNA\_E

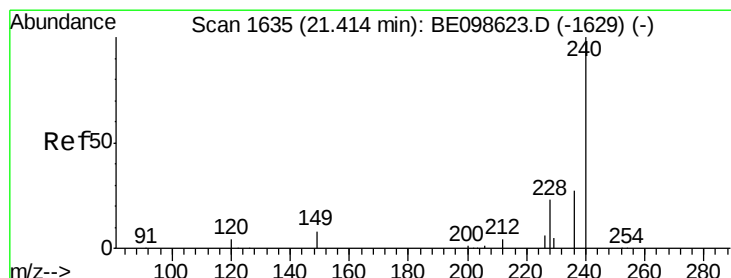
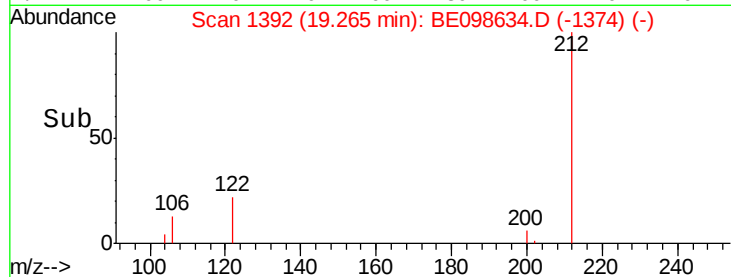
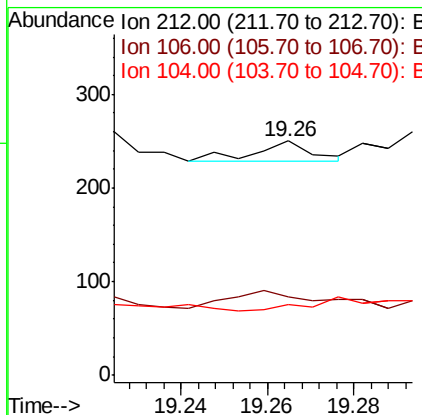
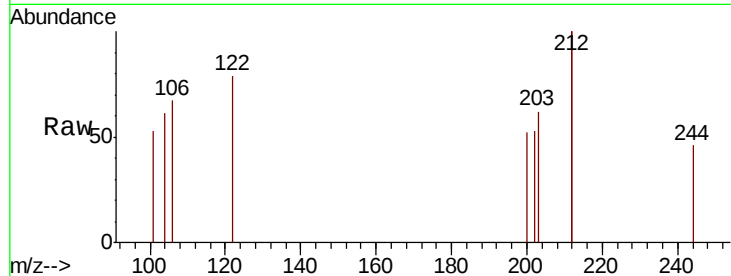
ClientSampleId :

MW12 123118

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 212   | Resp: | 21   |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 123.8 | 1.7   | 2.5# |
| 104       | 114.3 | 1.0   | 1.6# |

Manual Integrations  
APPROVED

Sohil  
1/16/2019 4:05:40 PM



#27

Chrysene-d12

Concen: 20.000 ng

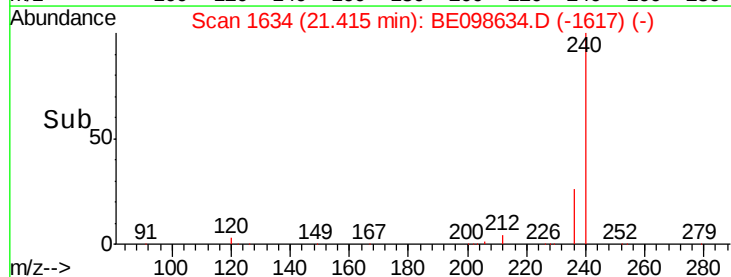
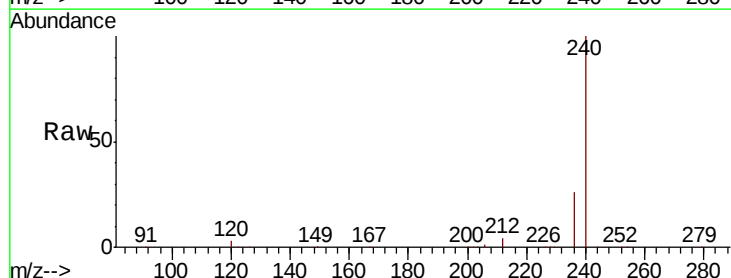
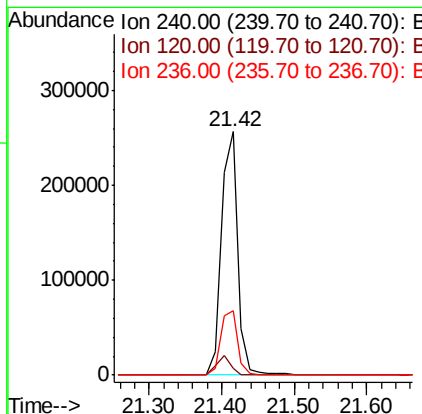
RT: 21.42 min Scan# 1634

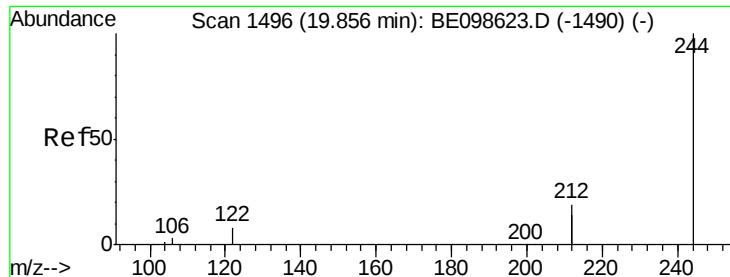
Delta R.T. 0.00 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 406997 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 2.7   | 4.7   | 7.1#   |
| 236       | 26.5  | 21.9  | 32.9   |





#29

Terphenyl-d14

Concen: 110.692 ng

RT: 19.86 min Scan# 1496

Delta R.T. 0.01 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

Instrument :

BNA\_E

ClientSampleId :

MW12 123118

Tot Ion:244 Resp: 1993610

Ion Ratio Lower Upper

244 100

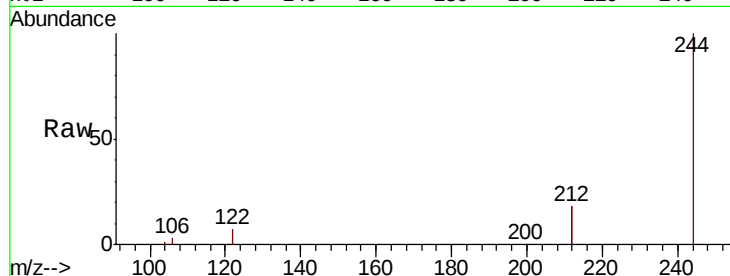
212 36.2 29.4 44.2

122 7.1 7.1 10.7

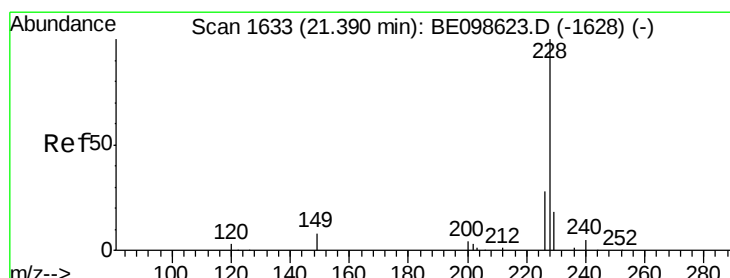
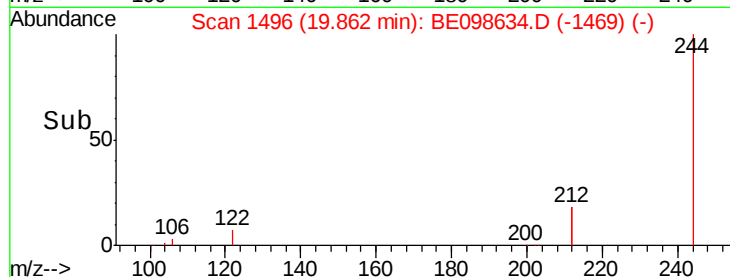
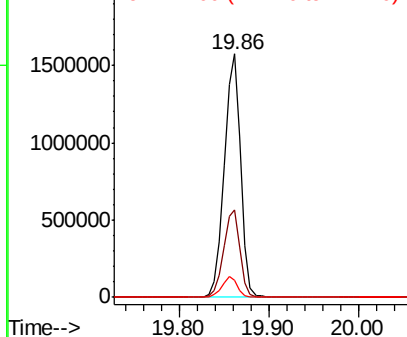
Manual Integrations  
APPROVED

Sohil

1/16/2019 4:05:40 PM



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.065 ng m

RT: 21.40 min Scan# 1633

Delta R.T. 0.01 min

Lab File: BE098634.D

Acq: 15 Jan 2019 19:00

Tgt Ion:228 Resp: 1418

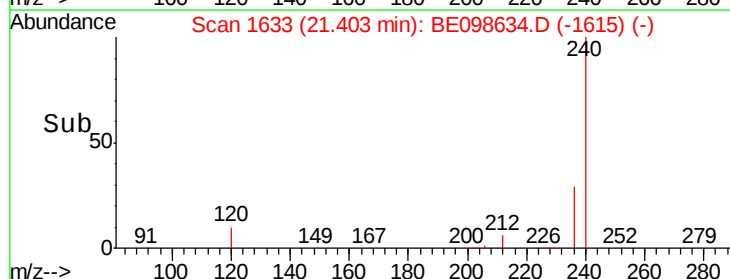
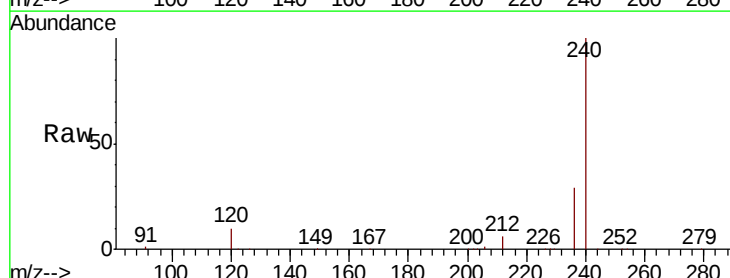
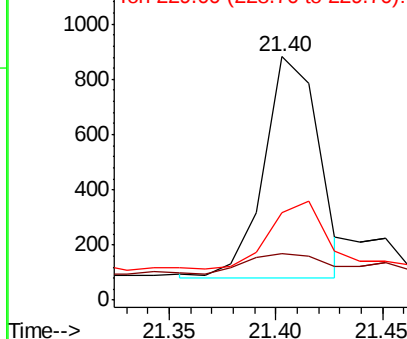
Ion Ratio Lower Upper

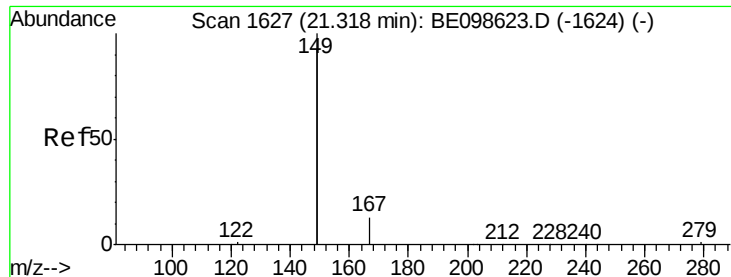
228 100

226 19.2 23.0 34.4#

229 35.7 15.0 22.6#

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





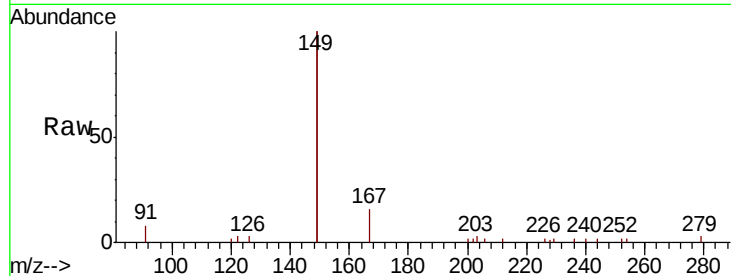
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.264 ng  
 RT: 21.32 min Scan# 1626  
 Delta R.T. 0.00 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW12\_123118

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.8   | 5.4   | 8.2   |
| 279     | 1.2   | 1.0   | 1.4   |

Manual Integrations  
 APPROVED

Sohil  
 1/16/2019 4:05:40 PM

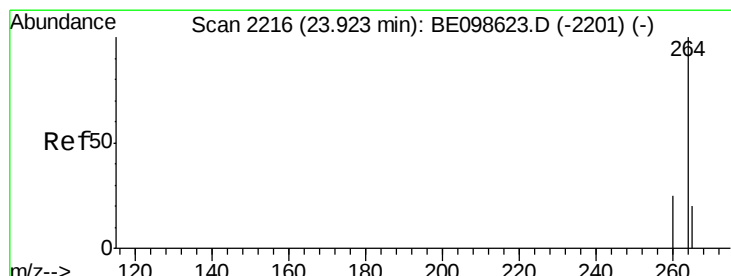
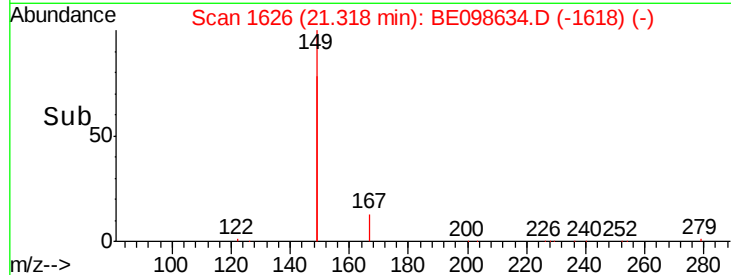
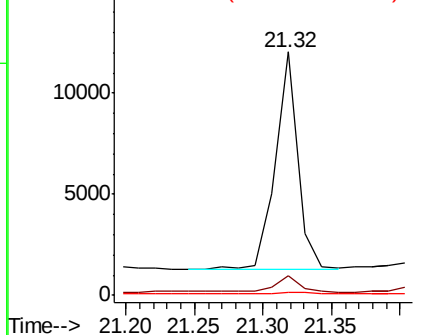


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.92 min Scan# 2215  
 Delta R.T. -0.00 min  
 Lab File: BE098634.D  
 Acq: 15 Jan 2019 19:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 20.5  | 30.7  |
| 265     | 21.7  | 22.3  | 33.5  |

Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

