

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE121818\  
 Data File : BE098516.D  
 Acq On : 18 Dec 2018 17:11  
 Operator : SJ/JU  
 Sample : J6323-04DL 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D2-20181206DL

Quant Time: Dec 19 00:02:13 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

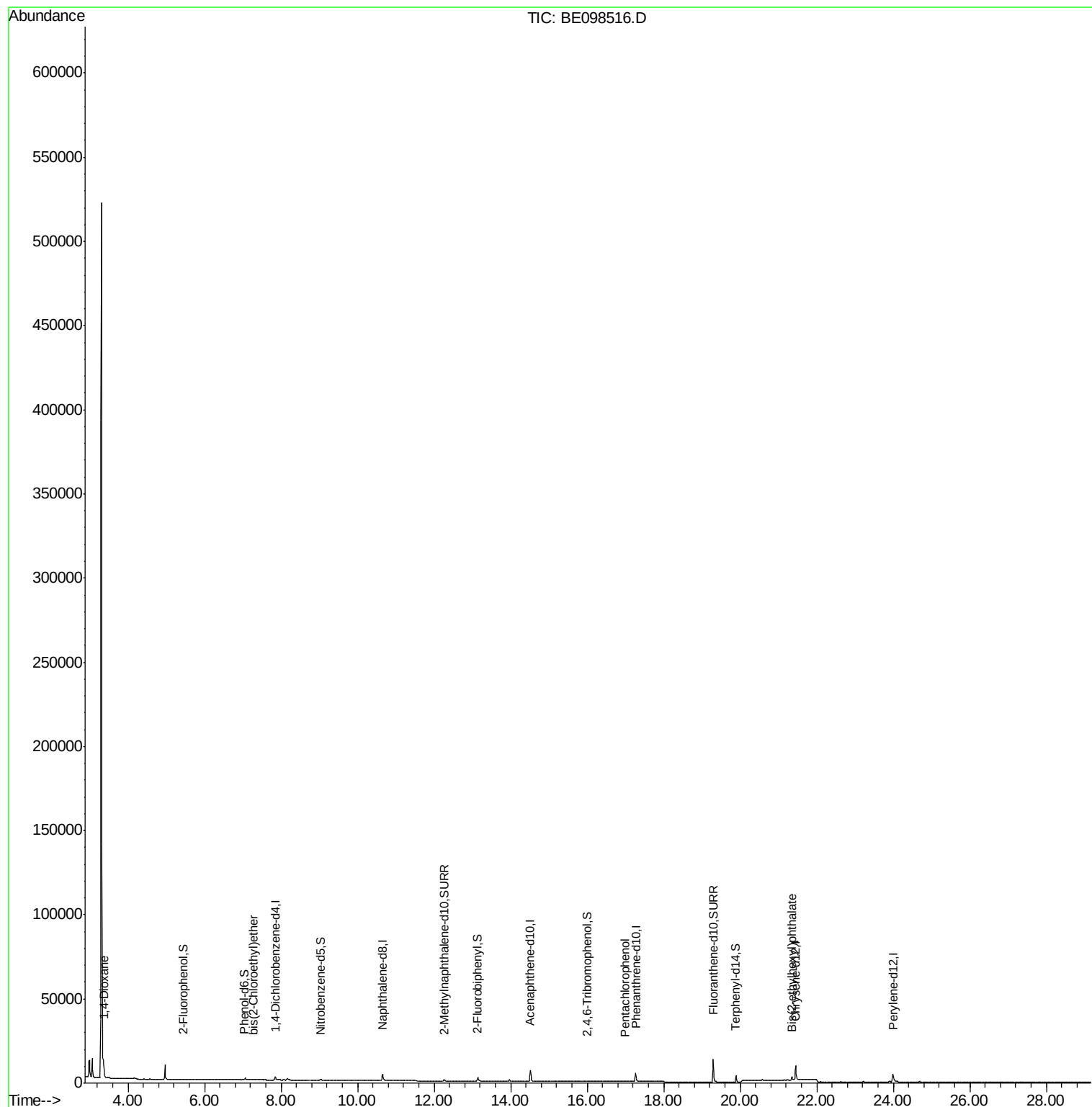
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.85  | 152  | 1172     | 0.40  | ng    | -0.01    |
| 7) Naphthalene-d8              | 10.65 | 136  | 5815     | 0.40  | ng    | -0.01    |
| 13) Acenaphthene-d10           | 14.51 | 164  | 3967     | 0.40  | ng    | -0.01    |
| 19) Phenanthrene-d10           | 17.27 | 188  | 9351     | 0.40  | ng    | -0.01    |
| 27) Chrysene-d12               | 21.45 | 240  | 10133    | 0.40  | ng    | -0.01    |
| 34) Perylene-d12               | 23.99 | 264  | 9608     | 0.40  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.44  | 112  | 261      | 0.10  | ng    | 0.00     |
| 5) Phenol-d6                   | 7.03  | 99   | 215      | 0.06  | ng    | -0.01    |
| 8) Nitrobenzene-d5             | 9.03  | 82   | 599      | 0.11  | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10    | 12.25 | 152  | 1722     | 0.18  | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol       | 16.01 | 330  | 281      | 0.19  | ng    | -0.01    |
| 15) 2-Fluorobiphenyl           | 13.13 | 172  | 2941     | 0.18  | ng    | -0.01    |
| 25) Fluoranthene-d10           | 19.30 | 212  | 20880    | 0.17  | ng    | -0.01    |
| 29) Terphenyl-d14              | 19.89 | 244  | 4128     | 0.17  | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.36  | 88   | 3442     | 1.698 | ng    | 93       |
| 6) bis(2-Chloroethyl)ether     | 7.28  | 93   | 87       | 0.024 | ng    | # 75     |
| 22) Pentachlorophenol          | 16.98 | 266  | 4        | 0.021 | ng    | # 71     |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 2834     | 0.048 | ng    | 98       |

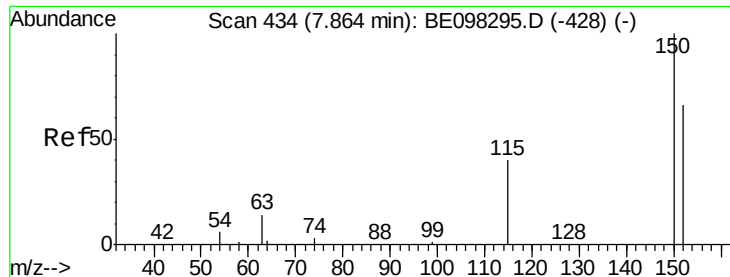
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration



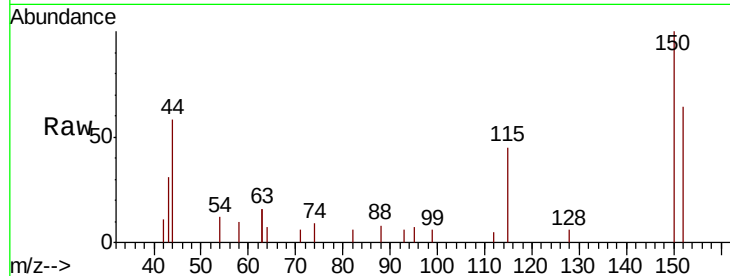


#1

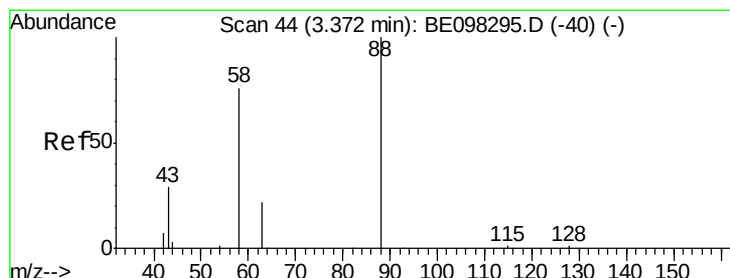
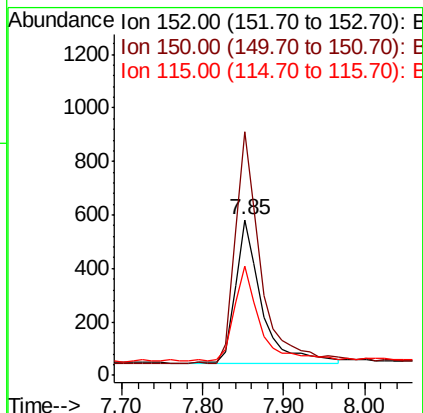
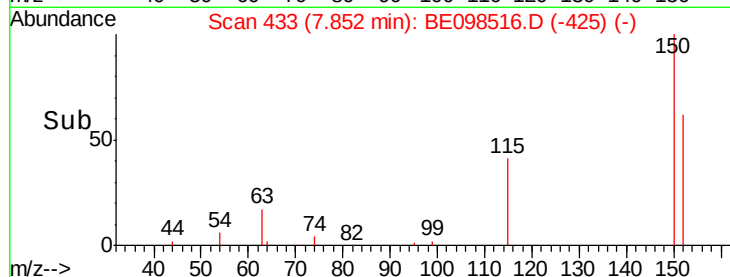
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.85 min Scan# 433  
Delta R.T. -0.01 min  
Lab File: BE098516.D  
Acq: 18 Dec 2018 17:11

Instrument :  
BNA\_E  
ClientSampleId :  
RE-122D2-20181206DL

Tgt Ion: 152 Resp: 1172  
Ion Ratio Lower Upper  
152 100  
150 156.8 124.2 186.4  
115 70.4 53.9 80.9



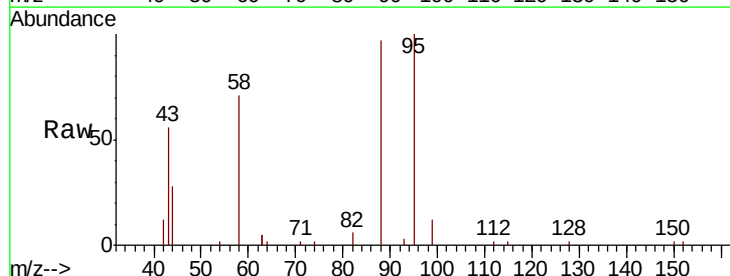
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



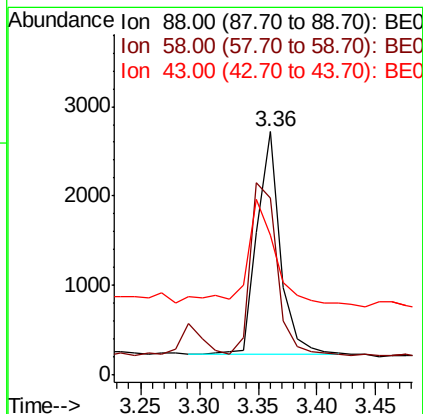
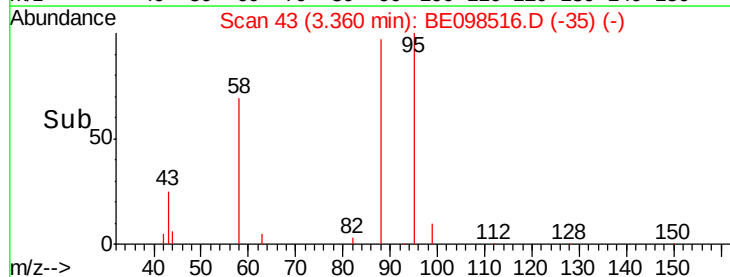
#2

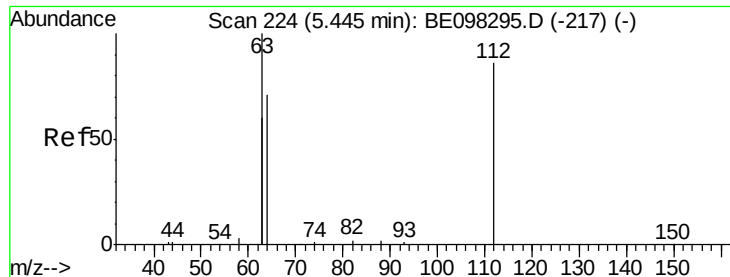
1,4-Dioxane  
Concen: 1.698 ng  
RT: 3.36 min Scan# 43  
Delta R.T. -0.01 min  
Lab File: BE098516.D  
Acq: 18 Dec 2018 17:11

Tgt Ion: 88 Resp: 3442  
Ion Ratio Lower Upper  
88 100  
58 87.7 75.0 112.6  
43 53.2 38.3 57.5



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.095 ng

RT: 5.44 min Scan# 224

Delta R.T. -0.00 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

Instrument :

BNA\_E

ClientSampleId :

RE-122D2-20181206DL

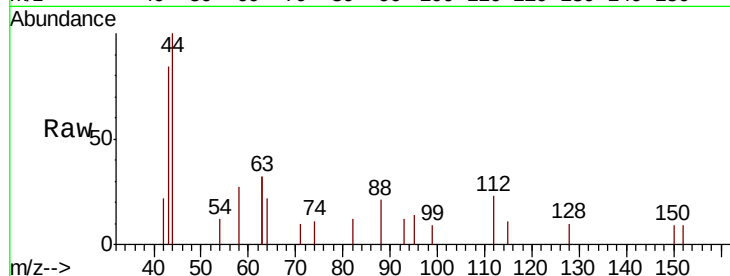
Tgt Ion: 112 Resp: 261

Ion Ratio Lower Upper

112 100

64 74.3 59.8 89.8

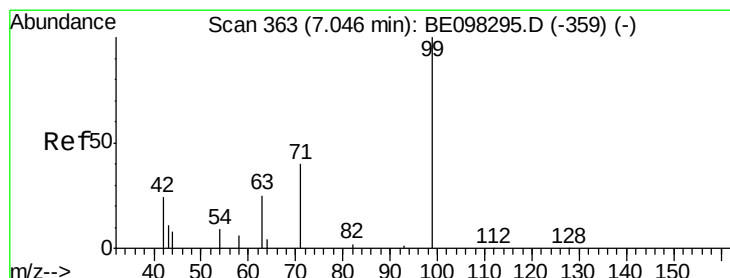
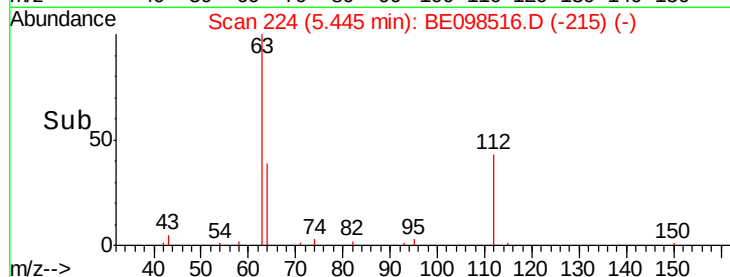
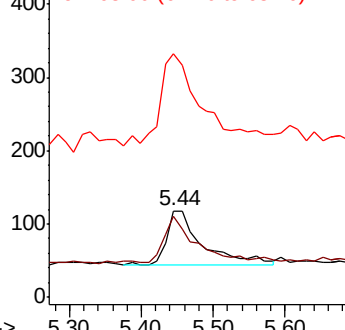
63 201.9 133.7 200.5#



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: 0.055 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

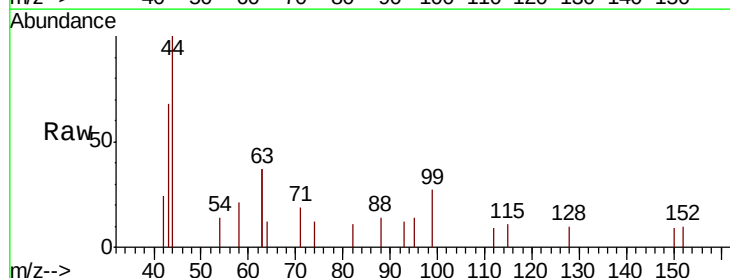
Tgt Ion: 99 Resp: 215

Ion Ratio Lower Upper

99 100

42 60.9 26.3 39.5#

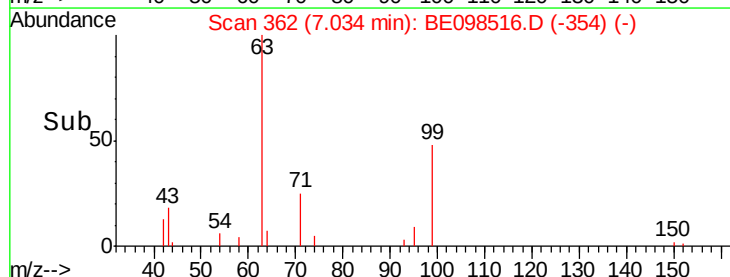
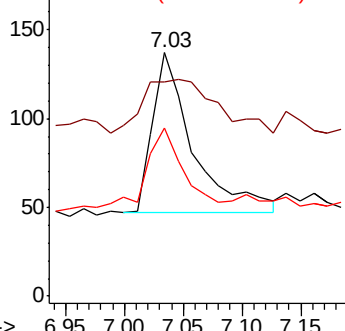
71 47.0 33.6 50.4

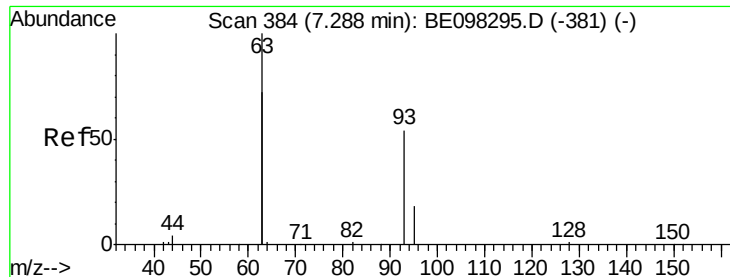


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.024 ng

RT: 7.28 min Scan# 383

Delta R.T. -0.01 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

Instrument :

BNA\_E

ClientSampleId :

RE-122D2-20181206DL

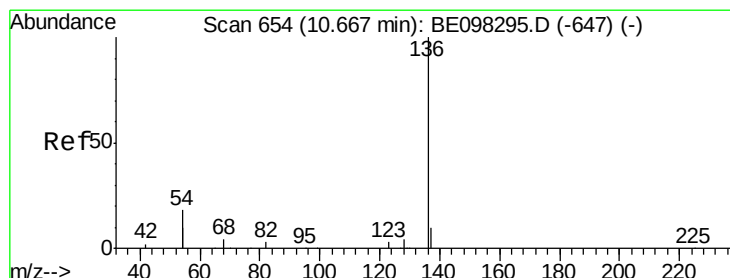
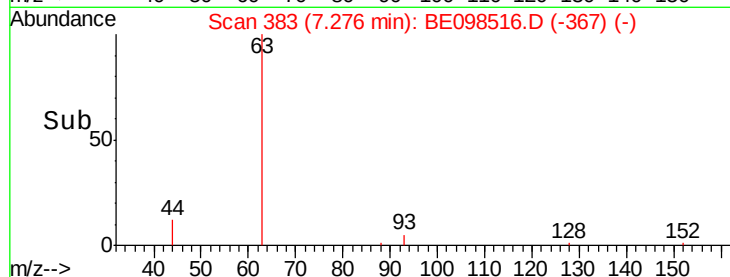
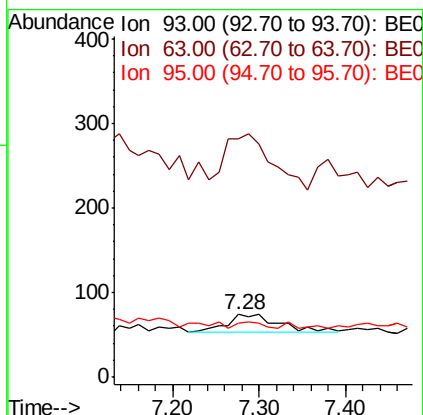
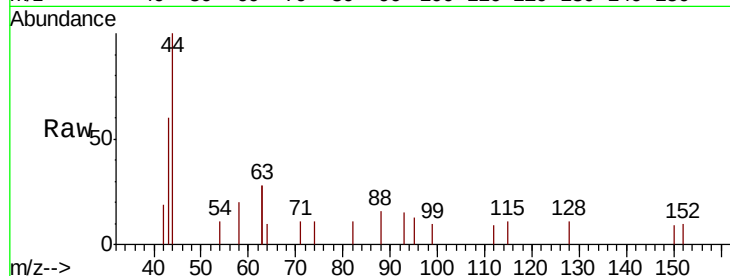
Tgt Ion: 93 Resp: 87

Ion Ratio Lower Upper

93 100

63 278.2 264.4 396.6

95 20.7 26.6 40.0#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

Tgt Ion: 136 Resp: 5815

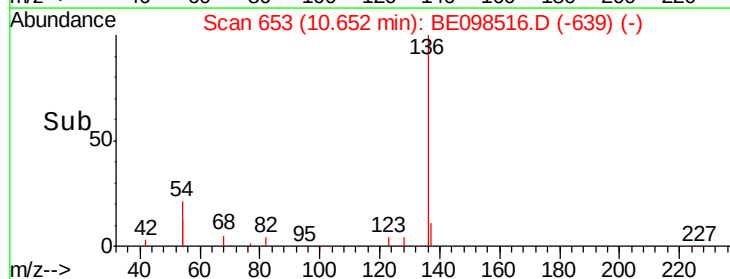
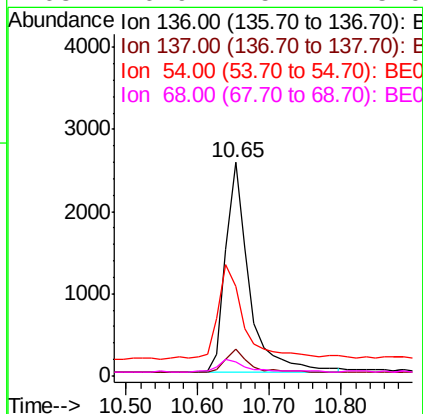
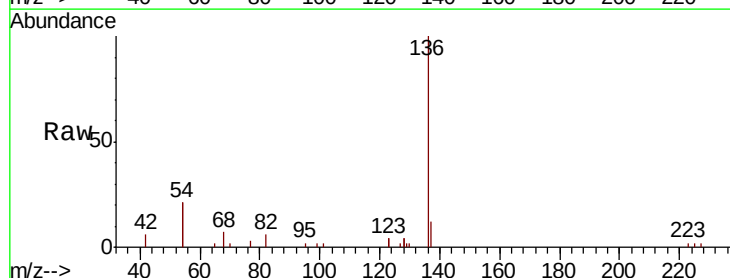
Ion Ratio Lower Upper

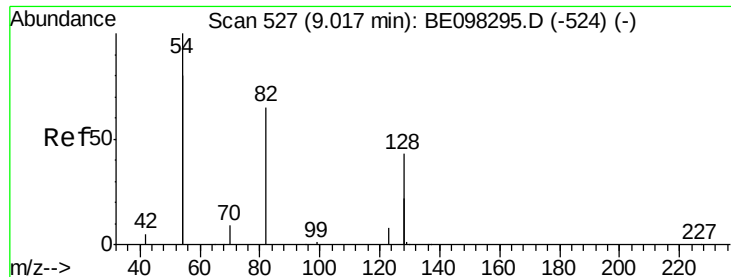
136 100

137 12.4 9.2 13.8

54 42.2 28.4 42.6

68 6.9 5.4 8.0

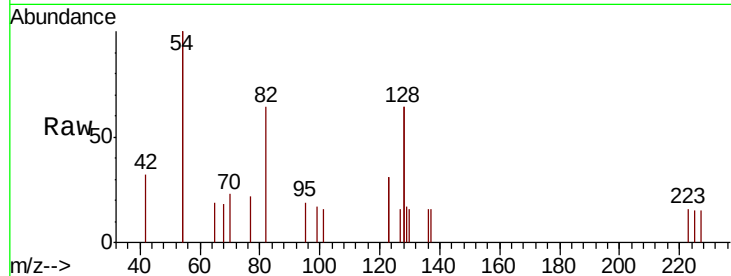




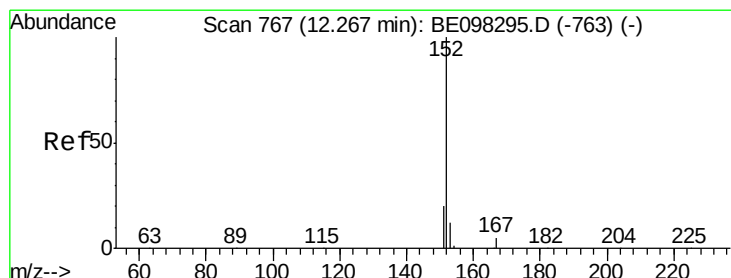
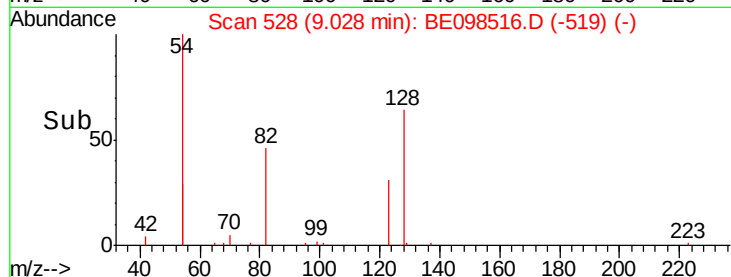
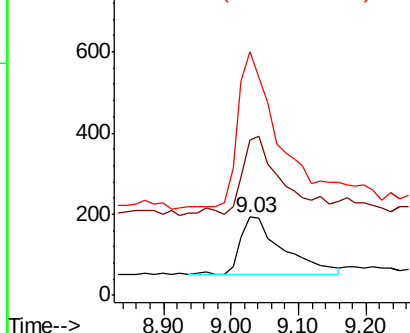
#8  
 Nitrobenzene-d5  
 Concen: 0.113 ng  
 RT: 9.03 min Scan# 528  
 Delta R.T. 0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D2-20181206DL

Tgt Ion: 82 Resp: 599  
 Ion Ratio Lower Upper  
 82 100  
 128 200.0 102.4 153.6#  
 54 312.5 221.8 332.8

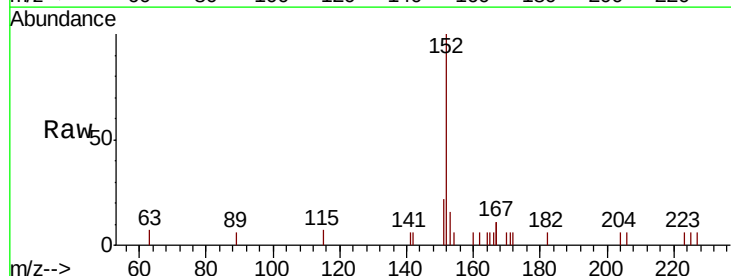


Abundance Ion 82.00 (81.70 to 82.70): BE0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BE0

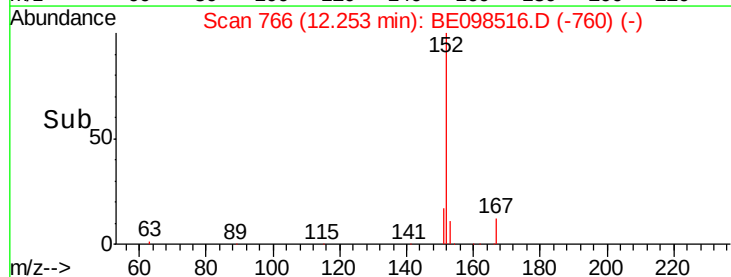
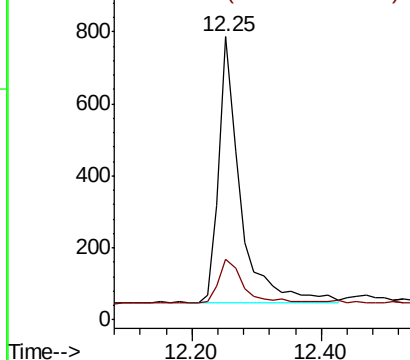


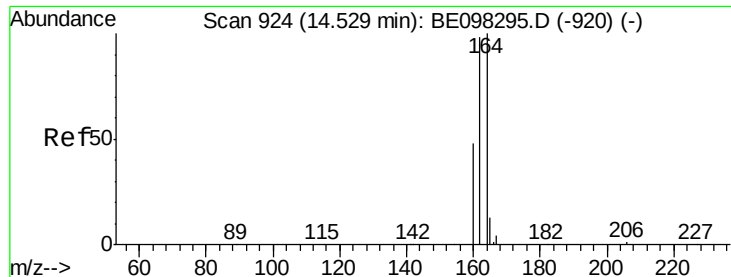
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.182 ng  
 RT: 12.25 min Scan# 766  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Tgt Ion: 152 Resp: 1722  
 Ion Ratio Lower Upper  
 152 100  
 151 18.7 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 151.00 (150.70 to 151.70): E

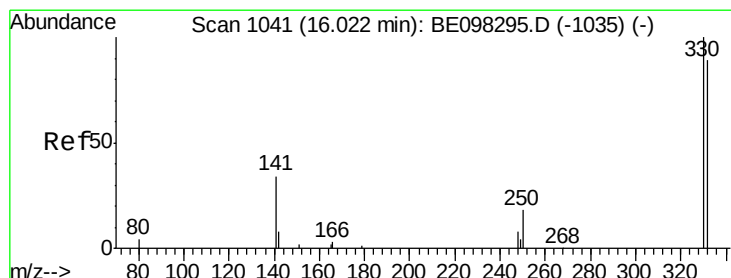
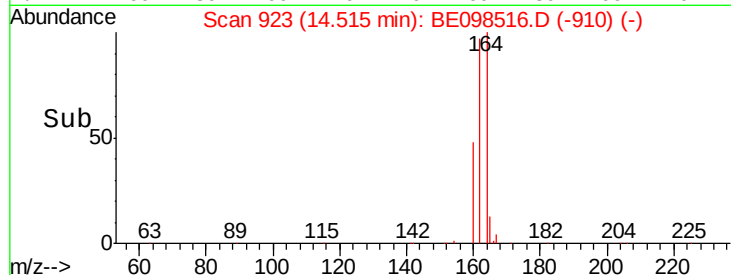
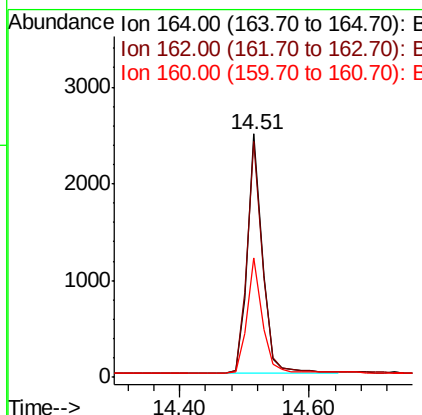
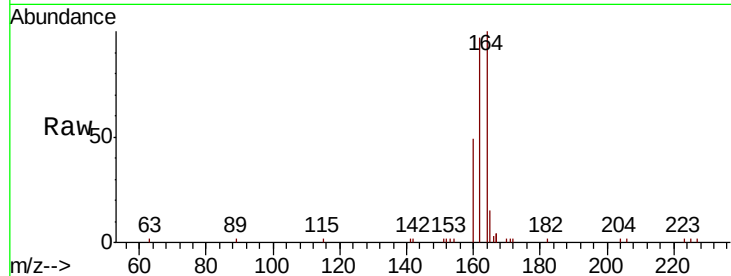




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.51 min Scan# 923  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

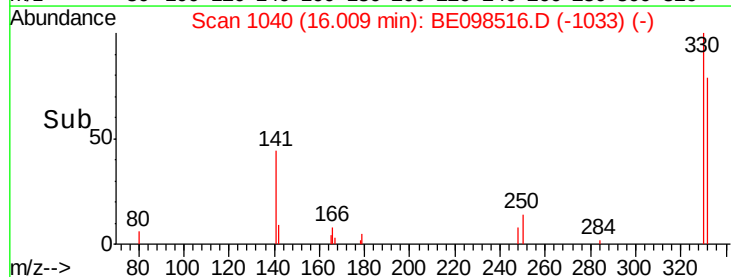
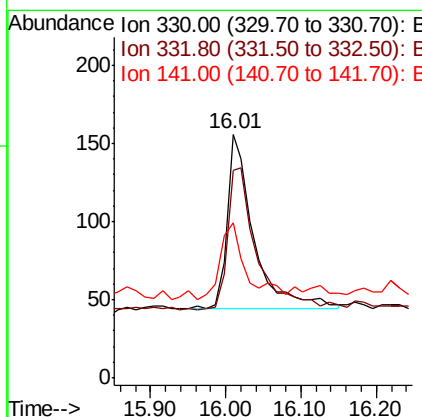
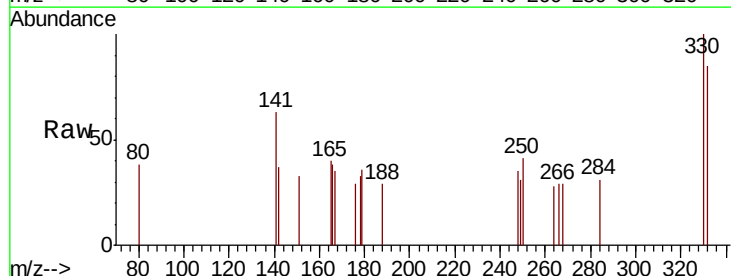
Instrument :  
 BNA\_E  
 ClientSampleId :  
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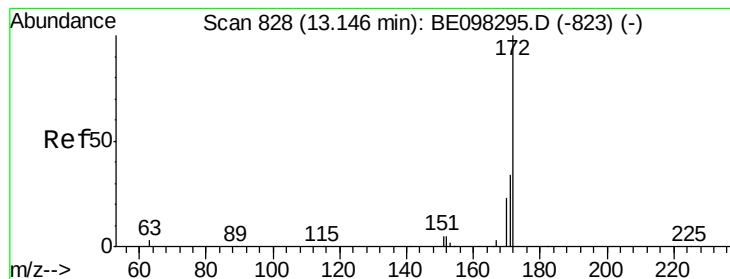
Tgt Ion:164 Resp: 3967  
 Ion Ratio Lower Upper  
 164 100  
 162 96.9 77.6 116.4  
 160 49.1 36.0 54.0



#14  
 2,4,6-Tribromophenol  
 Concen: 0.193 ng  
 RT: 16.01 min Scan# 1040  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Tgt Ion:330 Resp: 281  
 Ion Ratio Lower Upper  
 330 100  
 332 91.8 76.2 114.4  
 141 42.3 39.0 58.4

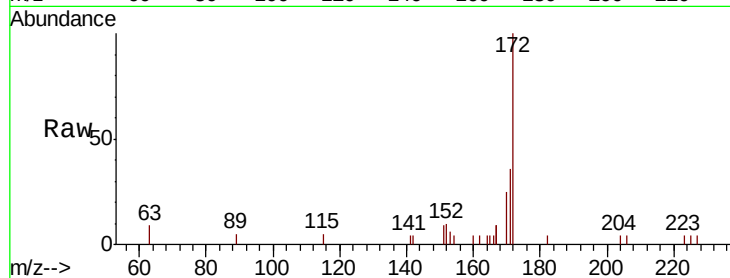




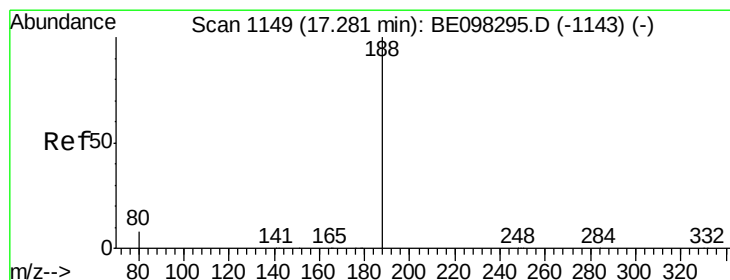
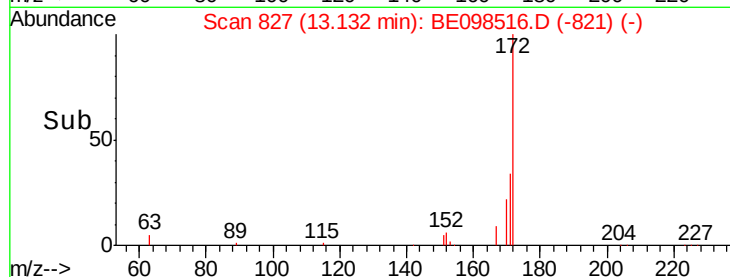
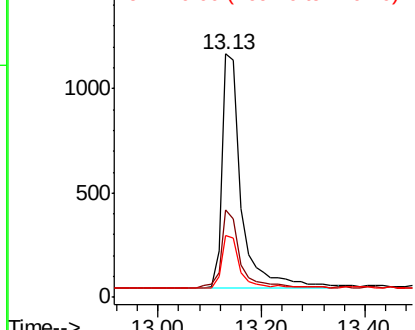
#15  
 2-Fluorobiphenyl  
 Concen: 0.176 ng  
 RT: 13.13 min Scan# 827  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D2-20181206DL

Tgt Ion:172 Resp: 2941  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 27.5 41.3  
 170 25.4 19.6 29.4

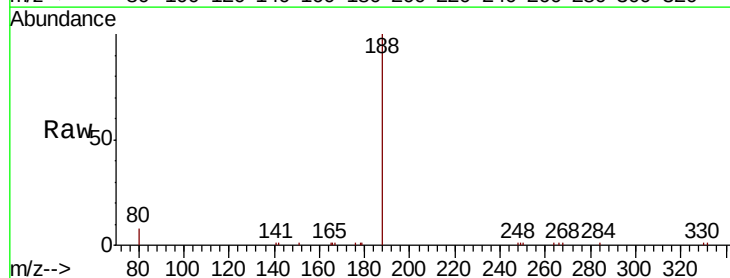


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

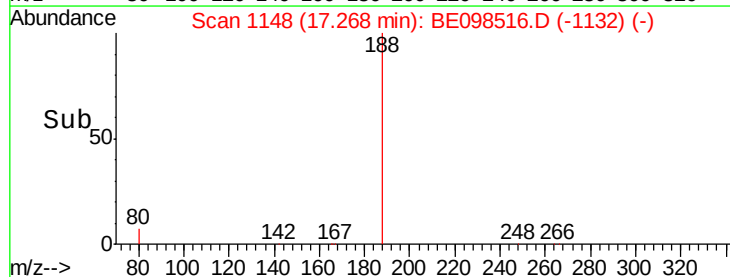
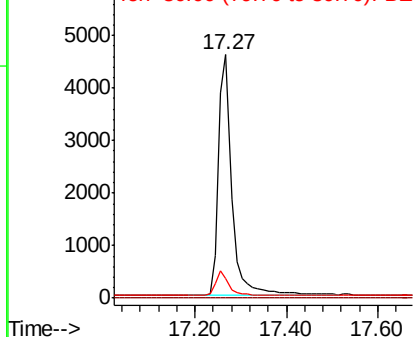


#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 17.27 min Scan# 1148  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

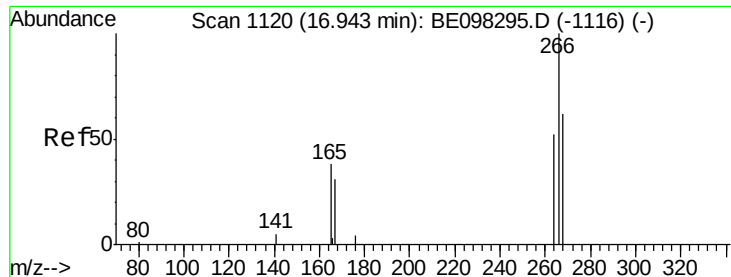
Tgt Ion:188 Resp: 9351  
 Ion Ratio Lower Upper  
 188 100  
 94 0.0 0.0 0.0  
 80 8.3 7.2 10.8



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BE0  
 Ion 80.00 (79.70 to 80.70): BE0



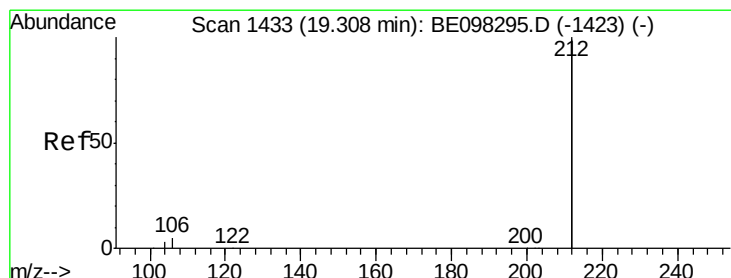
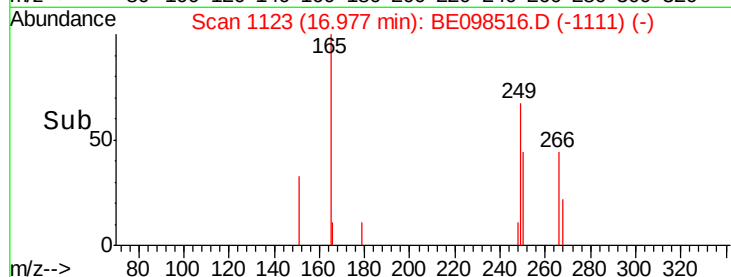
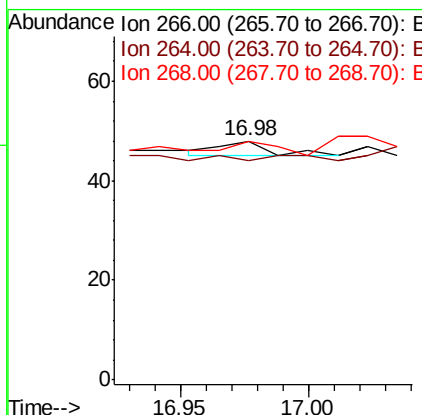
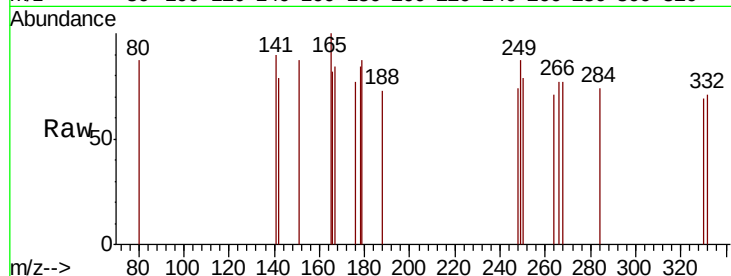




#22  
 Pentachlorophenol  
 Concen: 0.021 ng  
 RT: 16.98 min Scan# 1123  
 Delta R.T. 0.03 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

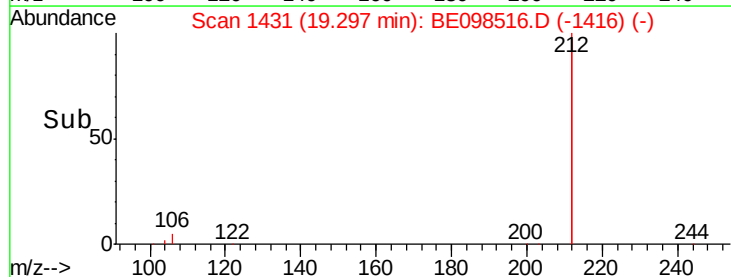
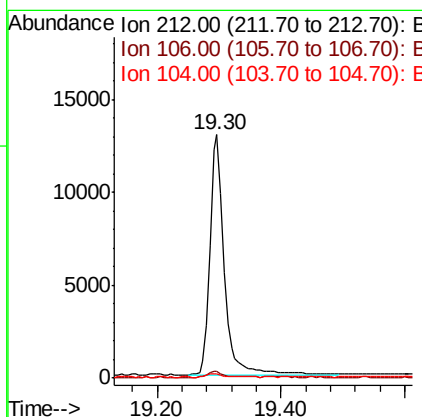
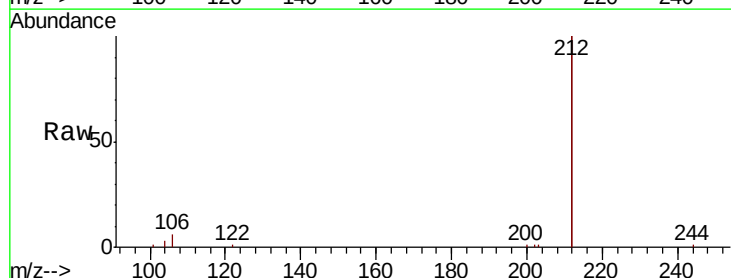
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D2-20181206DL

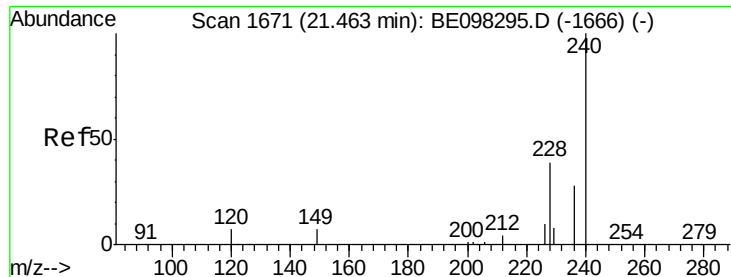
Tgt Ion: 266 Resp: 4  
 Ion Ratio Lower Upper  
 266 100  
 264 91.7 59.0 88.4#  
 268 100.0 55.1 82.7#



#25  
 Fluoranthene-d10  
 Concen: 0.174 ng  
 RT: 19.30 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Tgt Ion: 212 Resp: 20880  
 Ion Ratio Lower Upper  
 212 100  
 106 2.5 2.2 3.2  
 104 1.4 1.3 1.9





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

Instrument :

BNA\_E

ClientSampleId :

RE-122D2-20181206DL

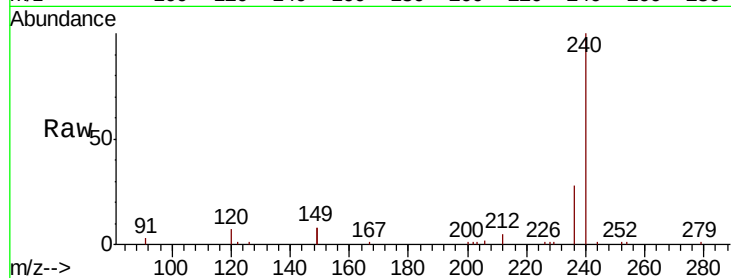
Tgt Ion:240 Resp: 10133

Ion Ratio Lower Upper

240 100

120 6.7 9.5 14.3#

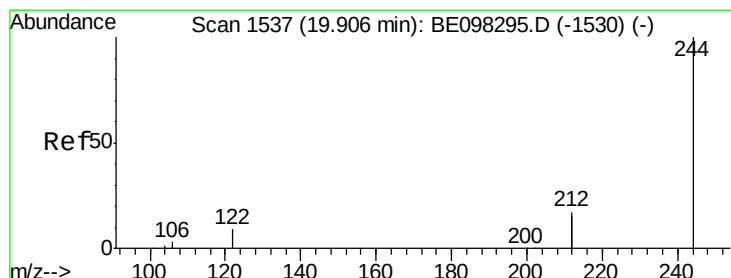
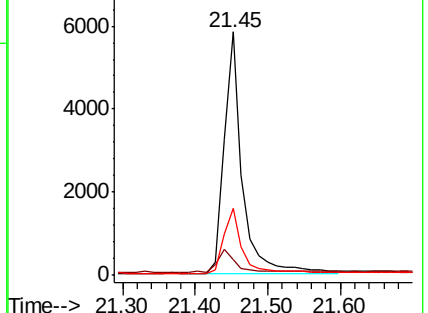
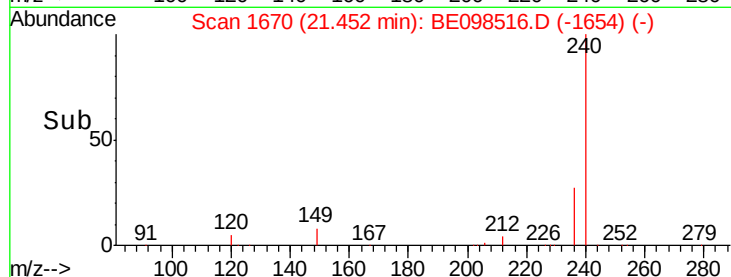
236 27.7 22.7 34.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#29

Terphenyl-d14

Concen: 0.168 ng

RT: 19.89 min Scan# 1535

Delta R.T. -0.01 min

Lab File: BE098516.D

Acq: 18 Dec 2018 17:11

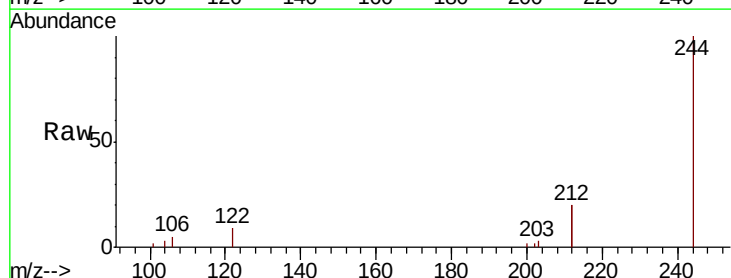
Tgt Ion:244 Resp: 4128

Ion Ratio Lower Upper

244 100

212 39.3 27.4 41.0

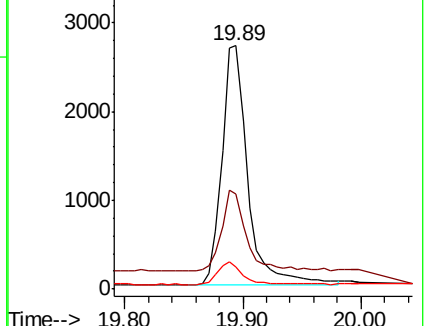
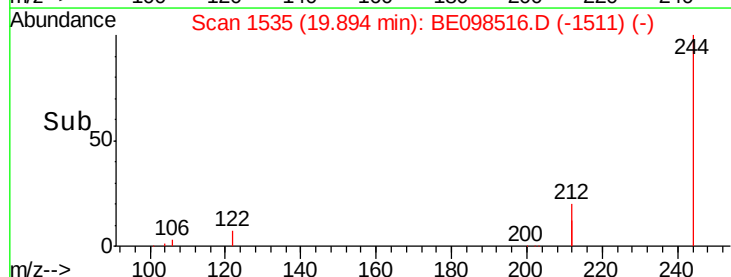
122 9.0 8.3 12.5

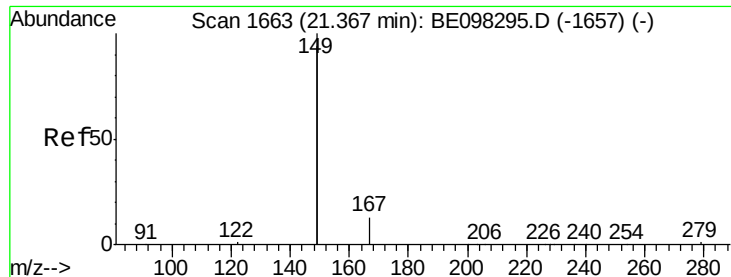


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

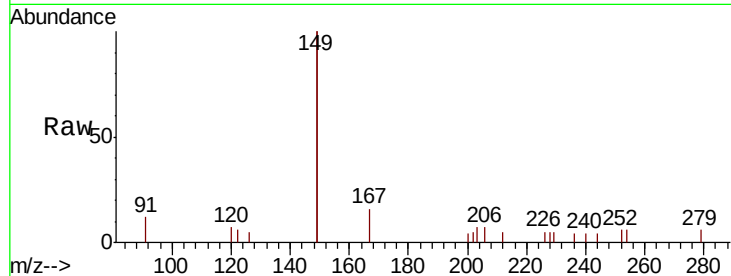




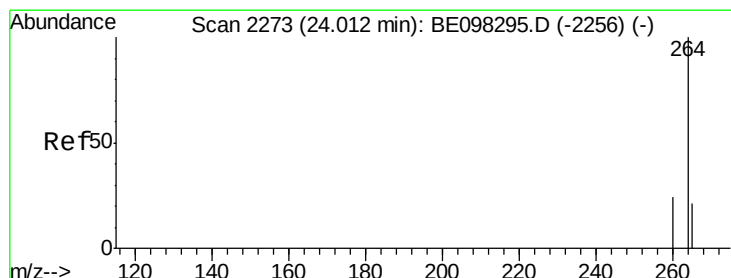
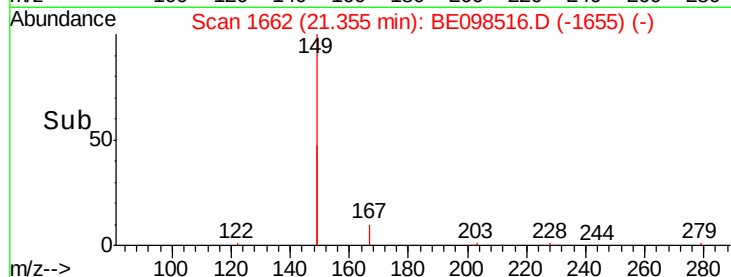
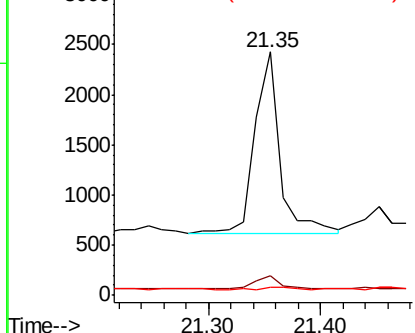
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.048 ng  
 RT: 21.35 min Scan# 1662  
 Delta R.T. -0.01 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D2-20181206DL

Tgt Ion:149 Resp: 2834  
 Ion Ratio Lower Upper  
 149 100  
 167 6.1 5.7 8.5  
 279 1.2 1.0 1.4

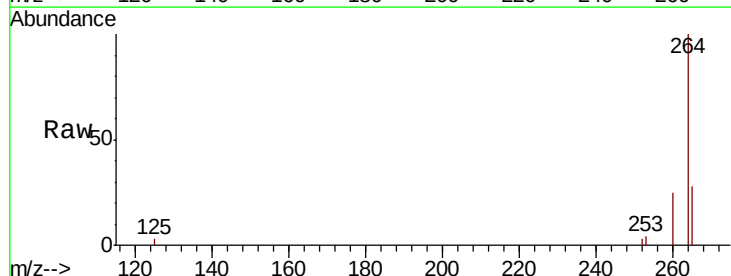


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.99 min Scan# 2267  
 Delta R.T. -0.02 min  
 Lab File: BE098516.D  
 Acq: 18 Dec 2018 17:11

Tgt Ion:264 Resp: 9608  
 Ion Ratio Lower Upper  
 264 100  
 260 25.4 20.2 30.2  
 265 27.8 25.2 37.8



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

