

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011020\  
 Data File : BE101024.D  
 Acq On : 10 Jan 2020 15:02  
 Operator : JU  
 Sample : SSTDC00.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jan 10 15:56:55 2020  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-SIM-BE010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 08 18:36:25 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 3301     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.50 | 136  | 14926    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.36 | 164  | 8896     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.09 | 188  | 19451    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.28 | 240  | 14648    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.70 | 264  | 15880    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.33  | 112 | 2586  | 0.35 | ng | 0.00 |
| 5) Phenol-d6                | 6.91  | 99  | 3085  | 0.33 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.87  | 82  | 3203  | 0.30 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.11 | 152 | 11567 | 0.41 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.85 | 330 | 717   | 0.29 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.00 | 172 | 13760 | 0.41 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.13 | 212 | 97141 | 0.36 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.74 | 244 | 15298 | 0.43 | ng | 0.00 |

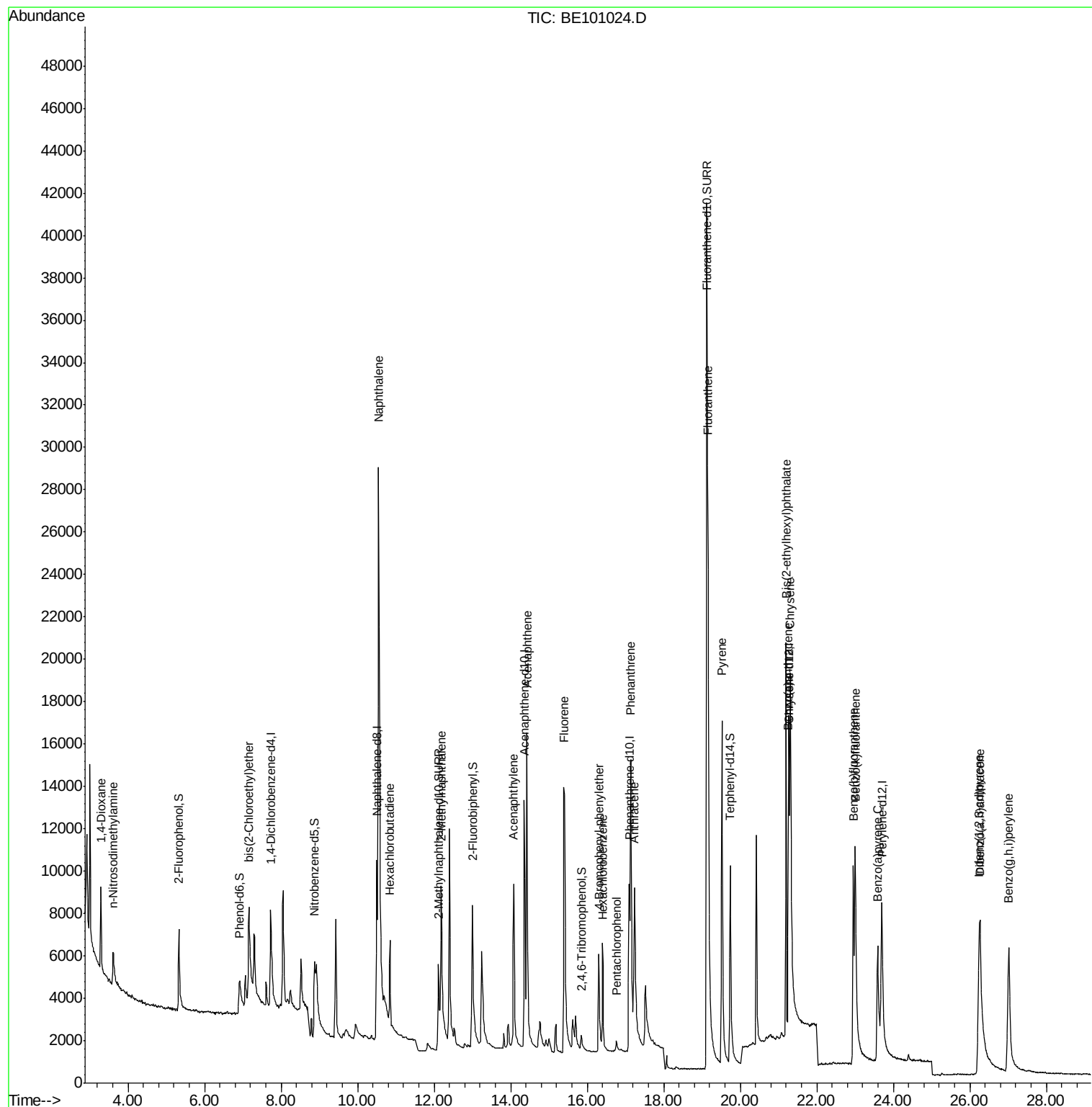
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 2857  | 0.340  | ng | 92   |
| 3) n-Nitrosodimethylamine      | 3.60  | 42  | 1611  | 0.351  | ng | 89   |
| 6) bis(2-Chloroethyl)ether     | 7.16  | 93  | 3689  | 0.330  | ng | # 90 |
| 9) Naphthalene                 | 10.55 | 128 | 67468 | 0.407  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.85 | 225 | 2848  | 0.406  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.18 | 142 | 9726  | 0.388  | ng | 98   |
| 16) Acenaphthylene             | 14.08 | 152 | 12523 | 0.346  | ng | 99   |
| 17) Acenaphthene               | 14.43 | 154 | 10278 | 0.396  | ng | 99   |
| 18) Fluorene                   | 15.39 | 166 | 12786 | 0.390  | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.30 | 248 | 3581  | 0.378  | ng | 97   |
| 21) Hexachlorobenzene          | 16.41 | 284 | 4416  | 0.424  | ng | 97   |
| 22) Pentachlorophenol          | 16.76 | 266 | 552   | 0.401  | ng | 94   |
| 23) Phenanthrene               | 17.13 | 178 | 20958 | 0.395  | ng | 99   |
| 24) Anthracene                 | 17.23 | 178 | 18880 | 0.377  | ng | 100  |
| 26) Fluoranthene               | 19.16 | 202 | 24148 | 0.363  | ng | 98   |
| 28) Pyrene                     | 19.52 | 202 | 23687 | 0.434  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.26 | 228 | 13013 | 0.311  | ng | 99   |
| 31) Chrysene                   | 21.31 | 228 | 28434 | 0.458  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 20396 | 0.293  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.24 | 276 | 19688 | 0.401  | ng | 97   |
| 35) Benzo(b)fluoranthene       | 22.95 | 252 | 14257 | 0.320  | ng | 100  |
| 36) Benzo(k)fluoranthene       | 23.00 | 252 | 24653 | 0.382  | ng | 99   |
| 37) Benzo(a)pyrene             | 23.59 | 252 | 16159 | 0.375  | ng | 99   |
| 38) Dibenzo(a,h)anthracene     | 26.27 | 278 | 14023 | 0.354  | ng | 97   |
| 39) Benzo(g,h,i)perylene       | 27.01 | 276 | 18406 | 0.378  | ng | 100  |

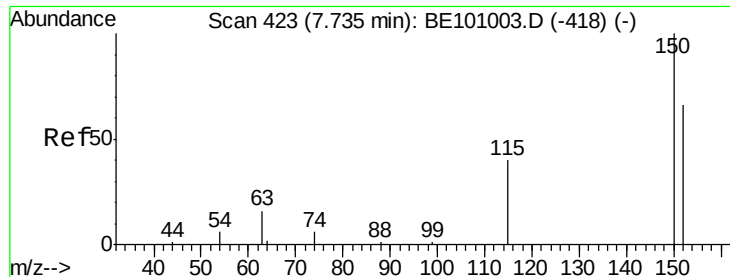
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011020\  
Data File : BE101024.D  
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Operator : JU  
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Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Jan 10 15:56:55 2020  
Quant Method : Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-SIM-BE010820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 08 18:36:25 2020  
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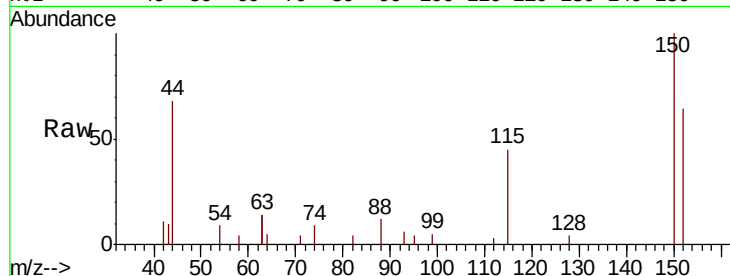


#1

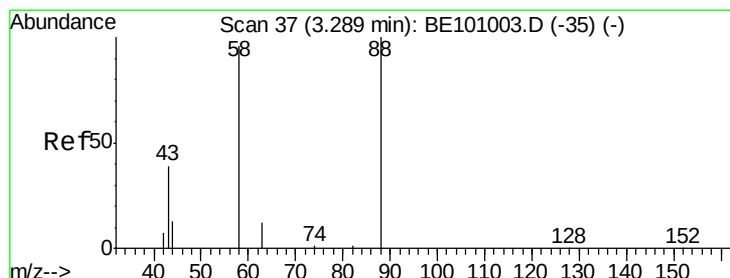
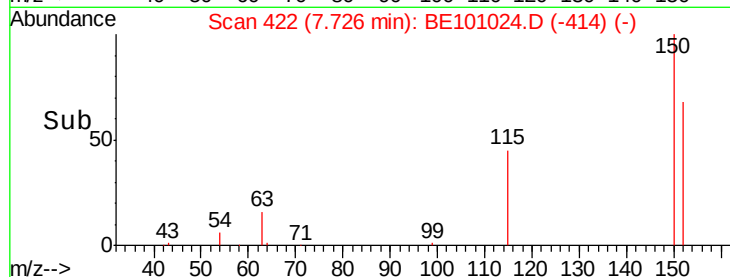
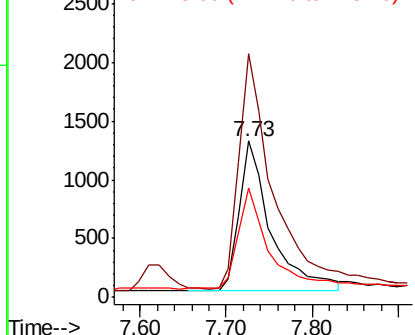
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.73 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:152 Resp: 3301  
Ion Ratio Lower Upper  
152 100  
150 155.6 120.3 180.5  
115 69.6 51.7 77.5



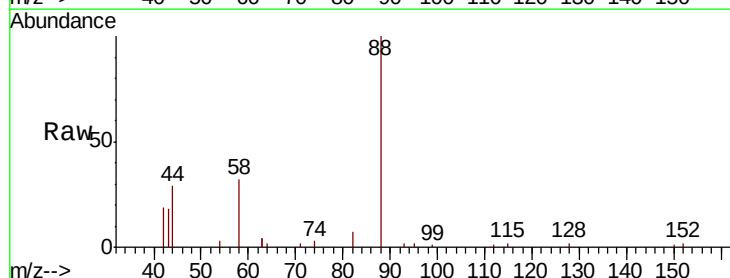
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



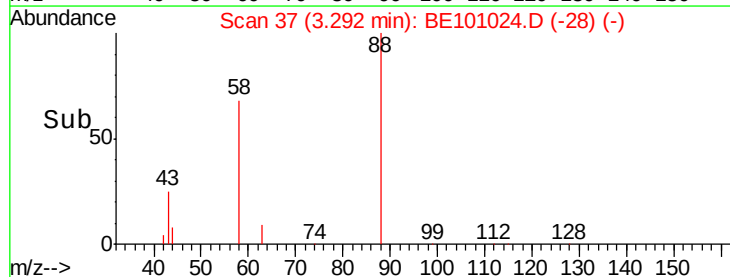
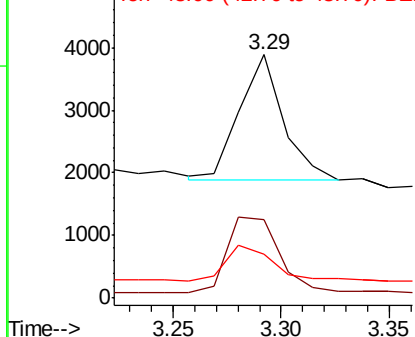
#2

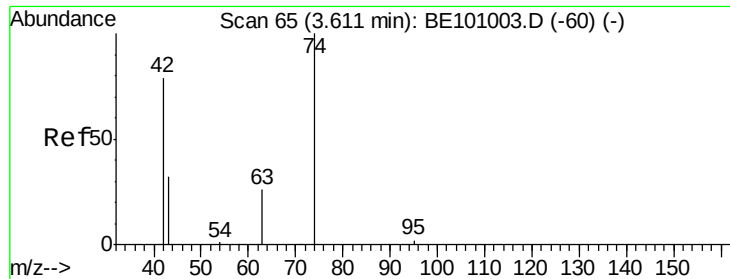
1,4-Dioxane  
Concen: 0.340 ng  
RT: 3.29 min Scan# 37  
Delta R.T. 0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Tgt Ion: 88 Resp: 2857  
Ion Ratio Lower Upper  
88 100  
58 74.5 53.0 79.4  
43 28.7 23.4 35.2



Abundance Ion 88.00 (87.70 to 88.70): BE1  
Ion 58.00 (57.70 to 58.70): BE1  
Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.351 ng

RT: 3.60 min Scan# 64

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampled :

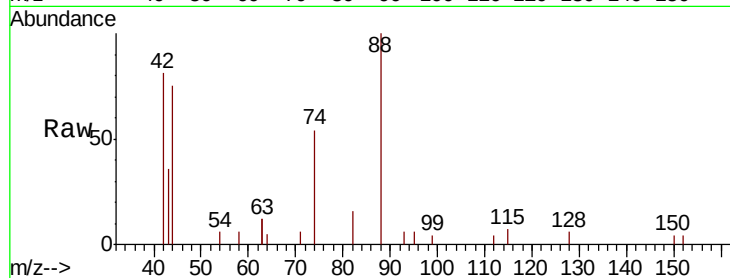
Tot Ion: 42 Resp: 1611

Ion Ratio Lower Upper

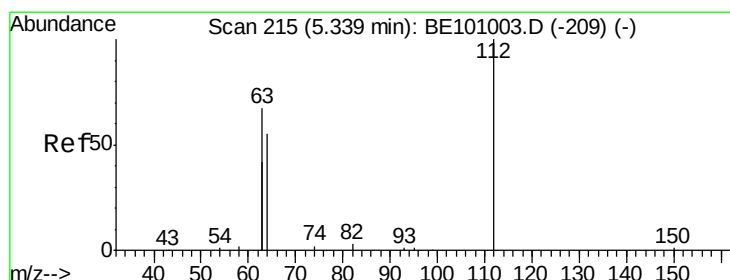
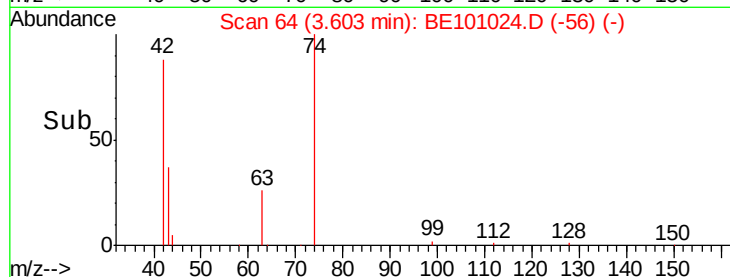
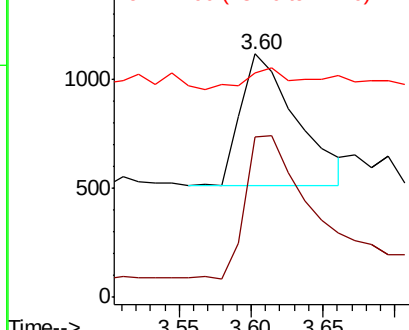
42 100

74 118.2 105.7 158.5

44 13.3 10.0 15.0



Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.348 ng

RT: 5.33 min Scan# 214

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

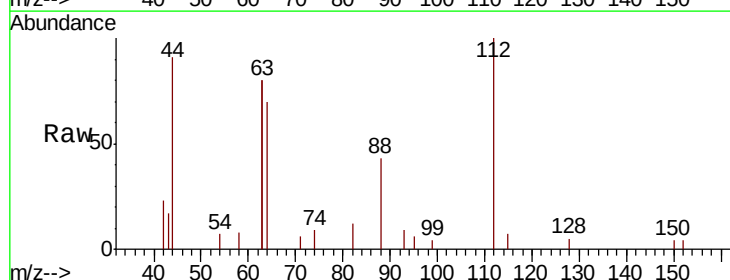
Tgt Ion: 112 Resp: 2586

Ion Ratio Lower Upper

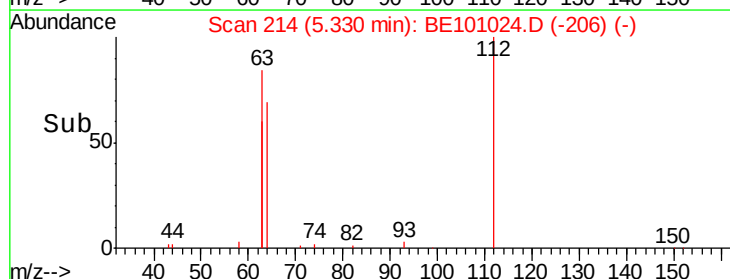
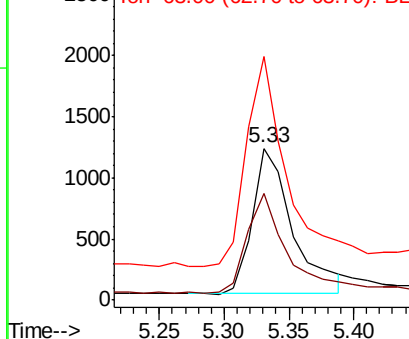
112 100

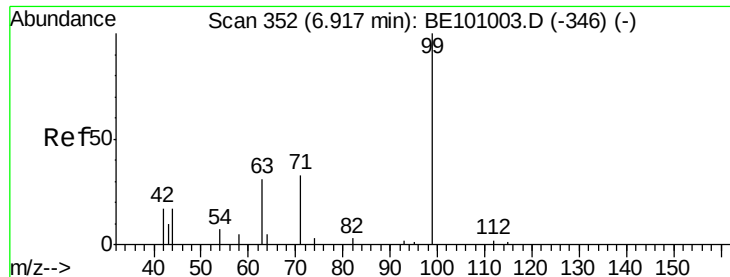
64 67.1 53.6 80.4

63 144.8 114.6 172.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.328 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

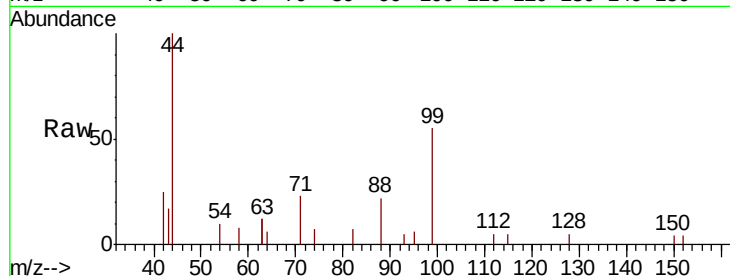
Tot Ion: 99 Resp: 3085

Ion Ratio Lower Upper

99 100

42 22.7 18.3 27.5

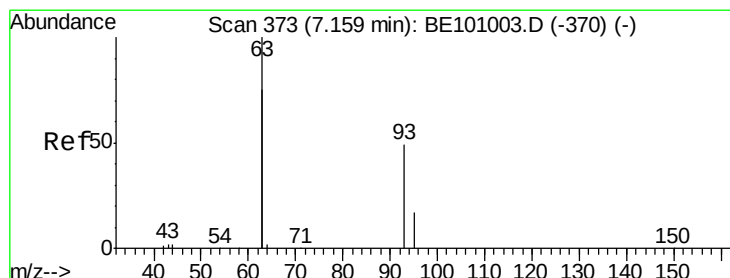
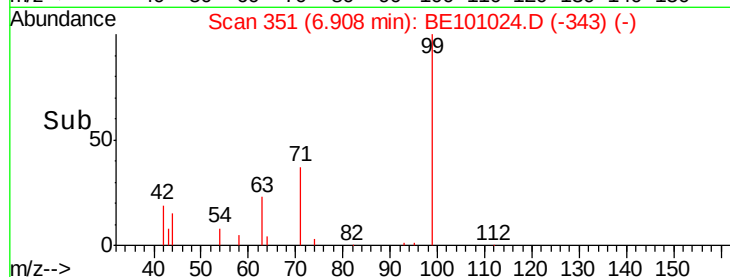
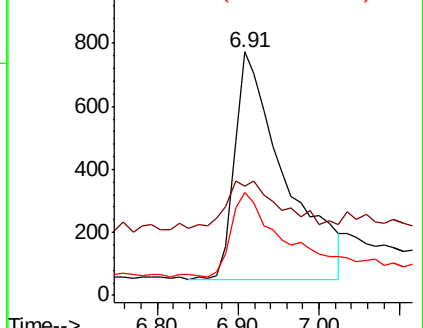
71 39.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.330 ng

RT: 7.16 min Scan# 373

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

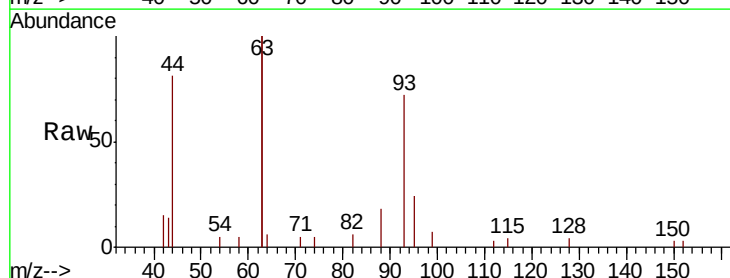
Tgt Ion: 93 Resp: 3689

Ion Ratio Lower Upper

93 100

63 312.2 233.9 350.9

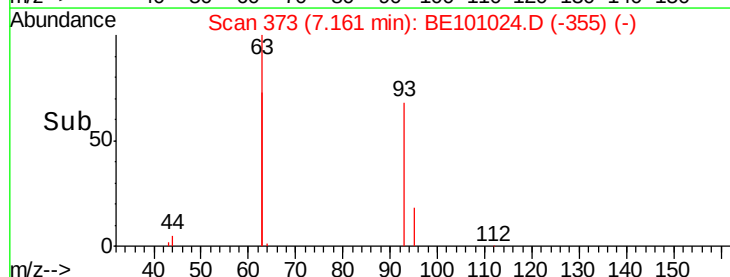
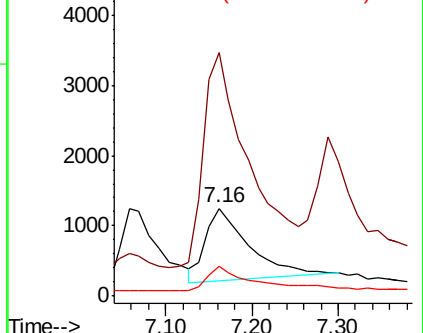
95 35.7 23.5 35.3#

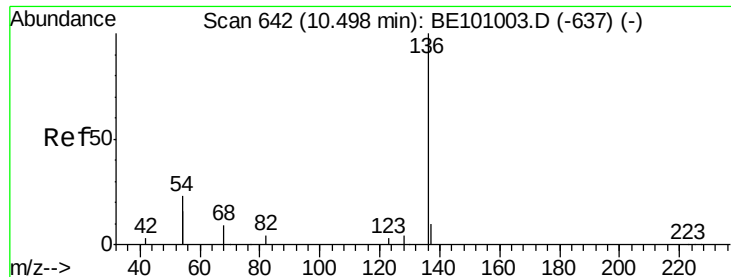


Abundance Ion 93.00 (92.70 to 93.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 14926

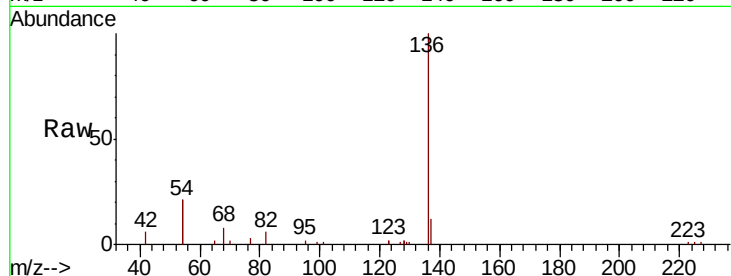
Ion Ratio Lower Upper

136 100

137 11.7 9.3 13.9

54 42.5 36.8 55.2

68 8.4 8.4 12.6

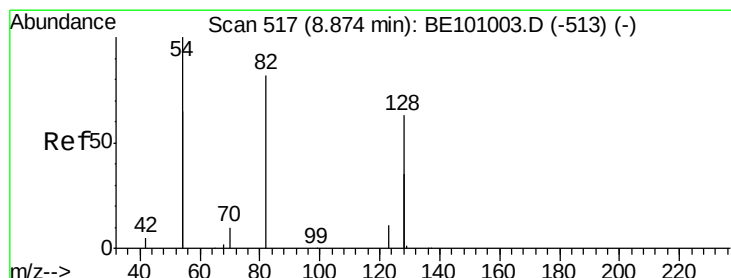
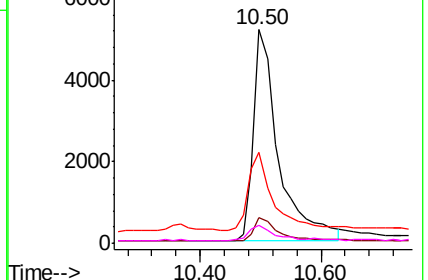
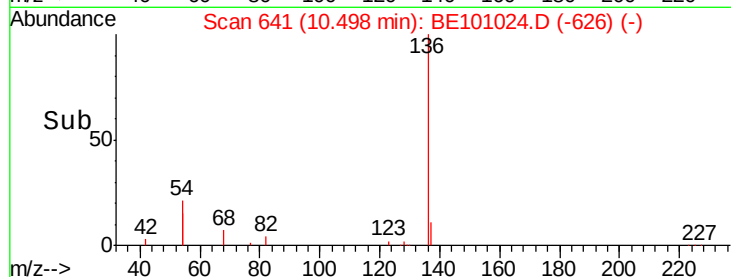


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.300 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

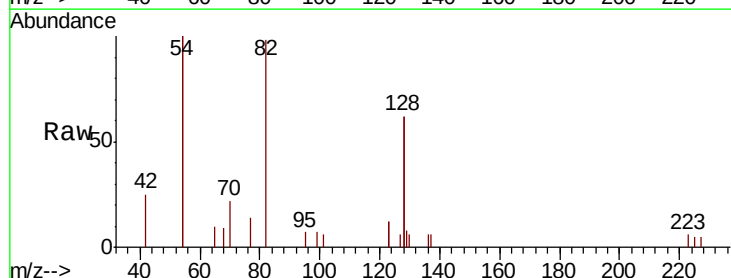
Tgt Ion: 82 Resp: 3203

Ion Ratio Lower Upper

82 100

128 126.9 109.8 164.6

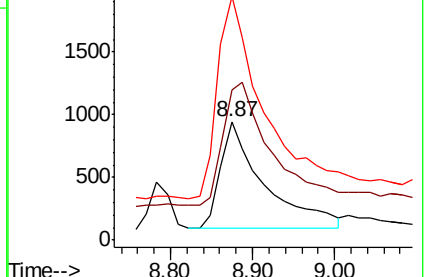
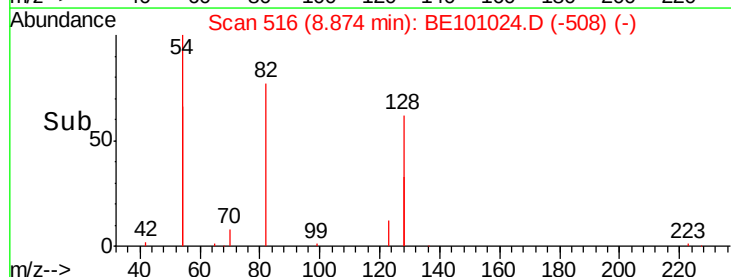
54 205.1 174.5 261.7

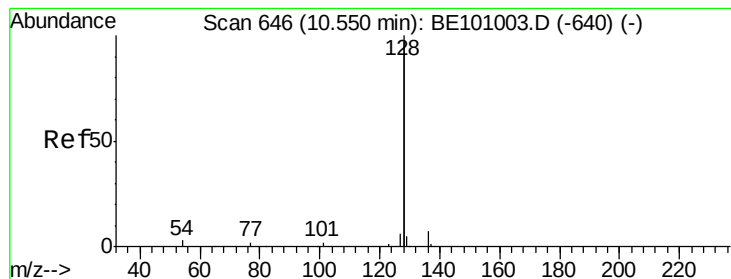


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.407 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

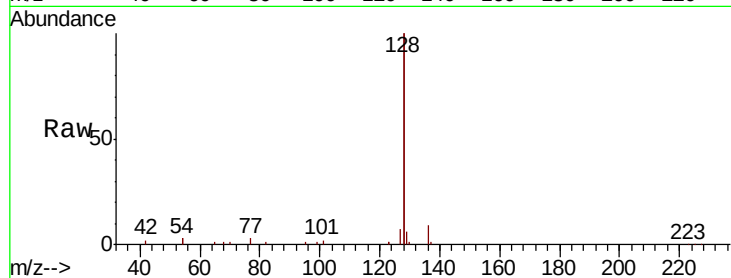
Tot Ion:128 Resp: 67468

Ion Ratio Lower Upper

128 100

129 2.9 2.3 3.5

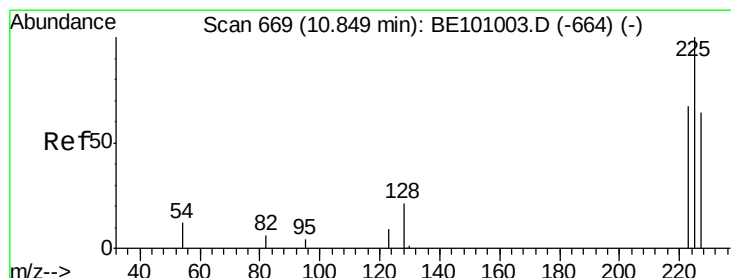
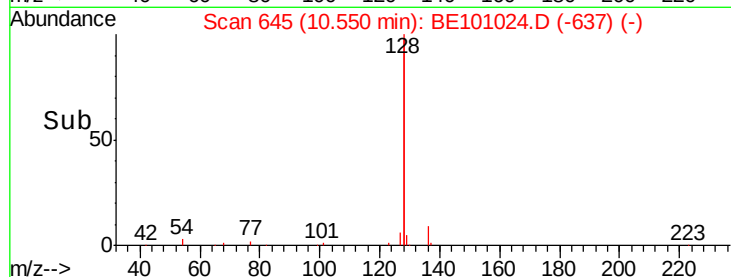
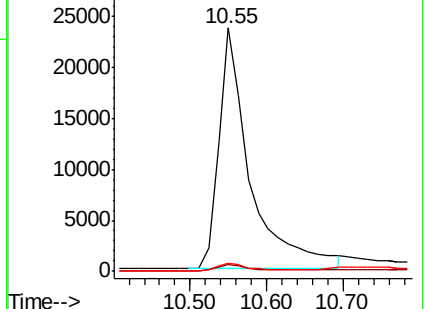
127 3.3 2.7 4.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.406 ng

RT: 10.85 min Scan# 668

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

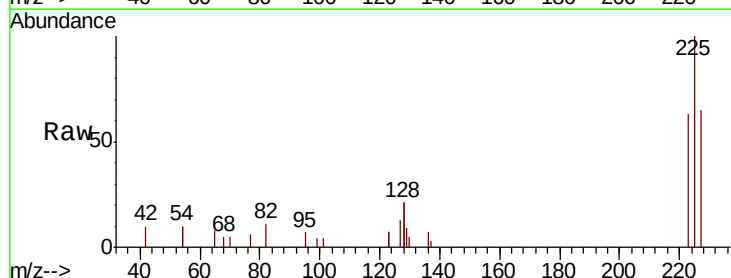
Tgt Ion:225 Resp: 2848

Ion Ratio Lower Upper

225 100

223 64.5 52.2 78.4

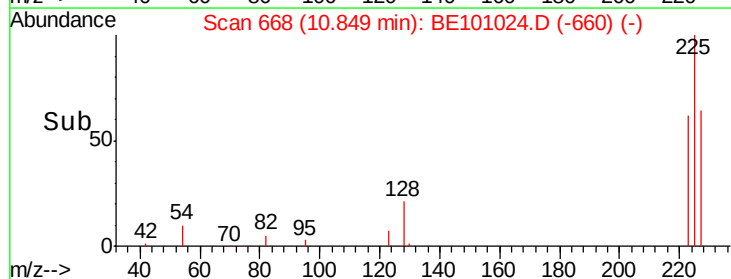
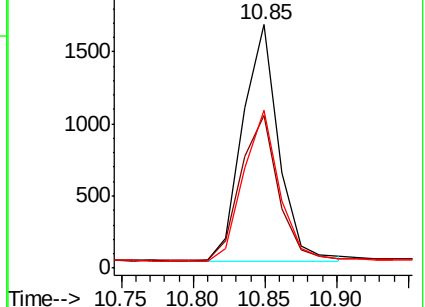
227 63.9 49.9 74.9

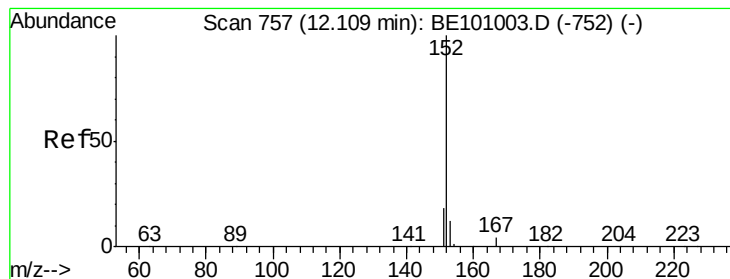


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.406 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

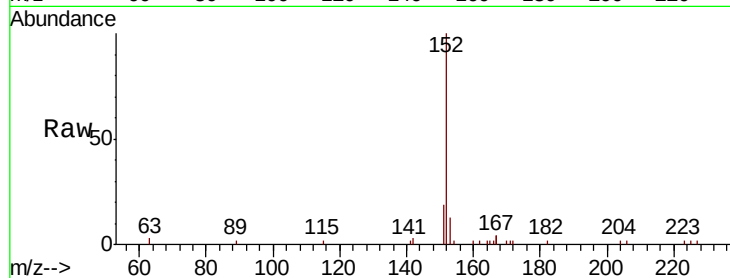
ClientSampleId :

Tot Ion:152 Resp: 11567

Ion Ratio Lower Upper

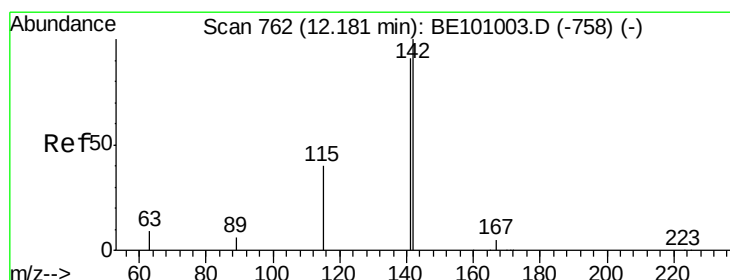
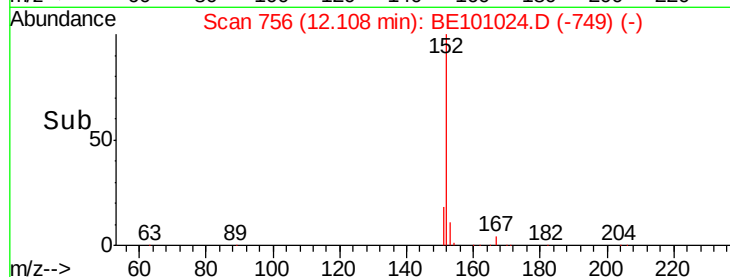
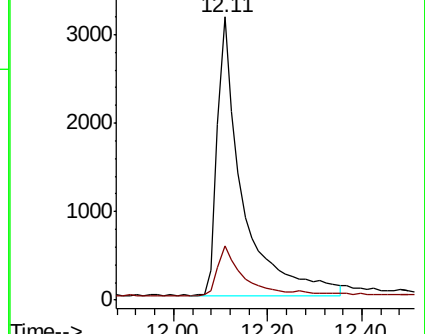
152 100

151 19.2 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.388 ng

RT: 12.18 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

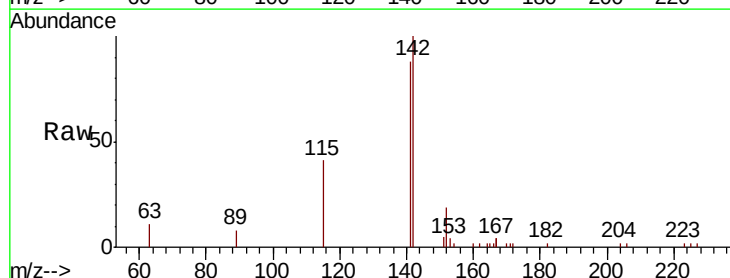
Tgt Ion:142 Resp: 9726

Ion Ratio Lower Upper

142 100

141 87.8 72.5 108.7

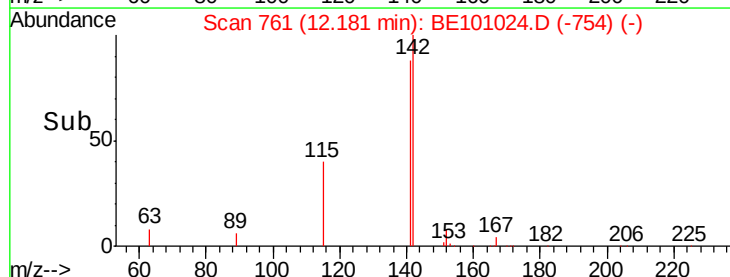
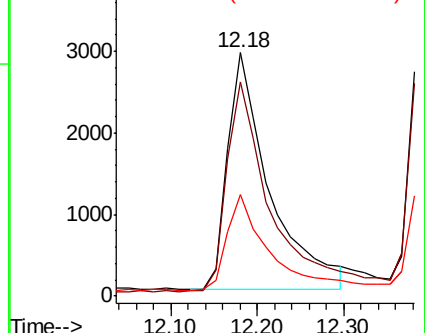
115 41.5 33.0 49.6



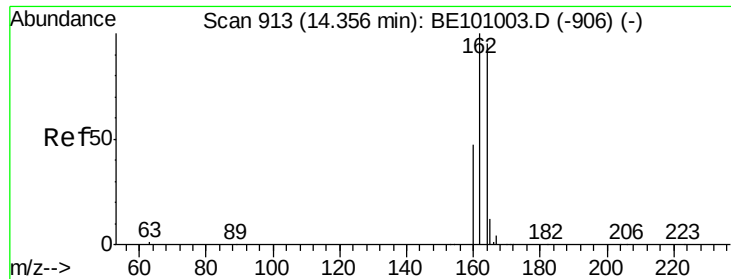
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



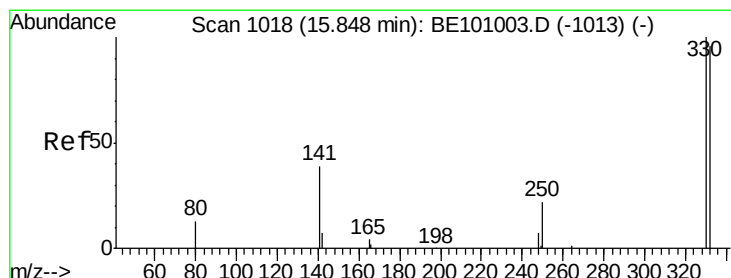
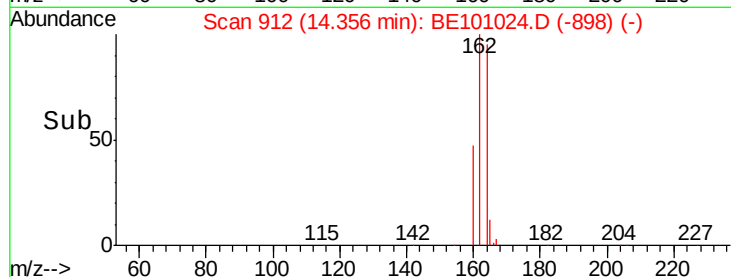
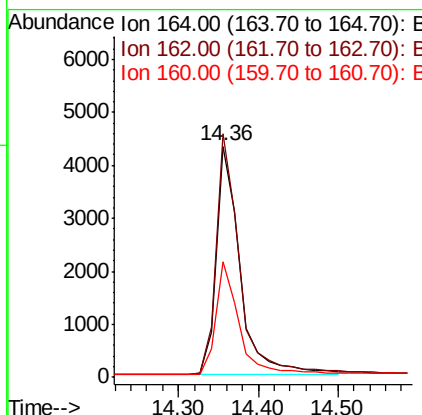
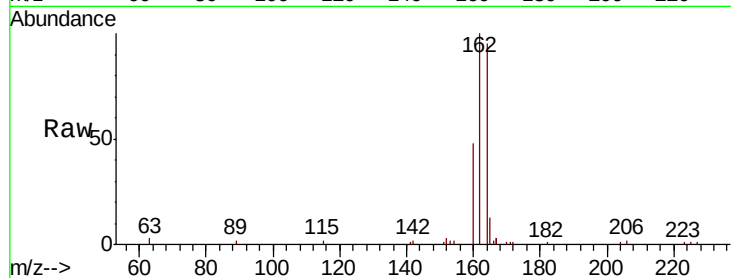




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.36 min Scan# 912  
 Delta R.T. -0.00 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

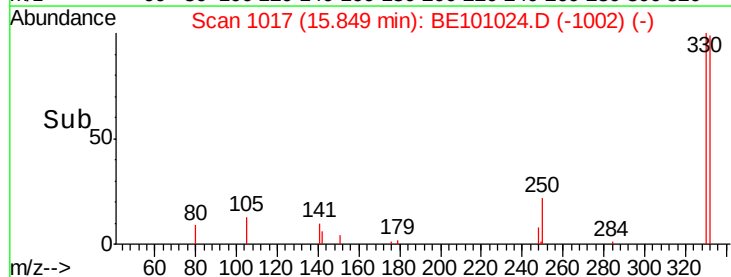
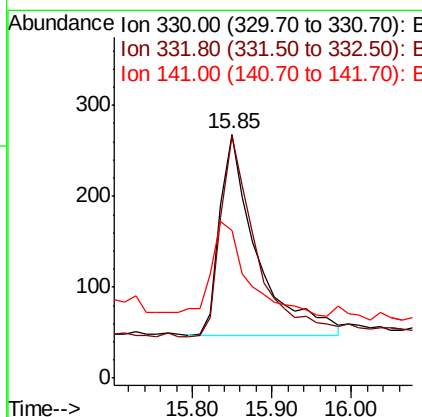
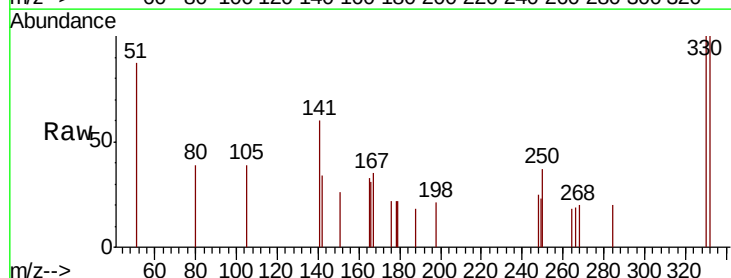
Instrument :  
 BNA\_E  
 ClientSampleId :

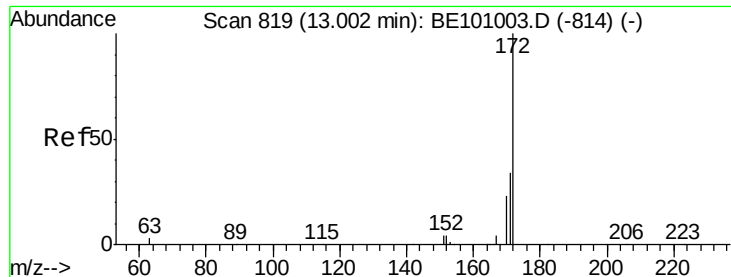
Tot Ion:164 Resp: 8896  
 Ion Ratio Lower Upper  
 164 100  
 162 105.2 84.1 126.1  
 160 50.2 40.4 60.6



#14  
 2,4,6-Tribromophenol  
 Concen: 0.286 ng  
 RT: 15.85 min Scan# 1017  
 Delta R.T. 0.00 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

Tgt Ion:330 Resp: 717  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 78.4 117.6  
 141 46.4 37.0 55.4

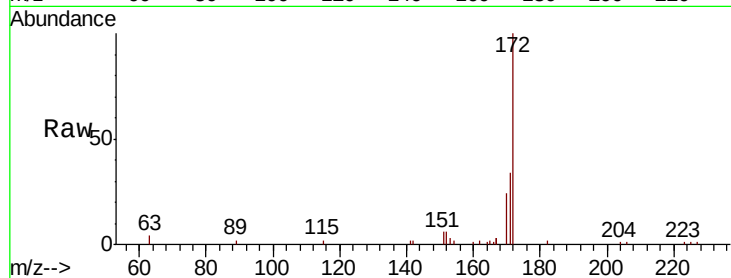




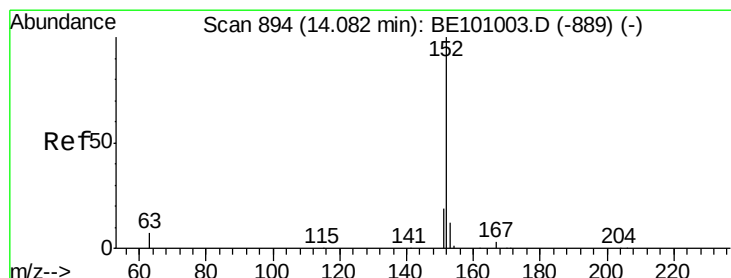
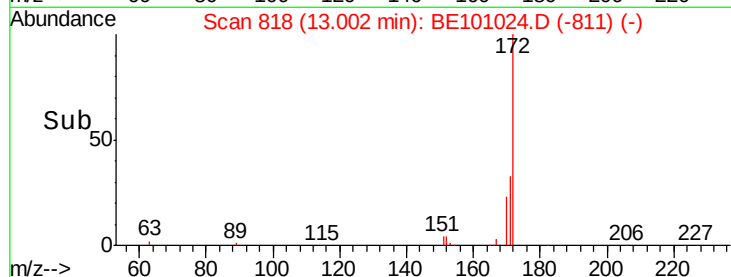
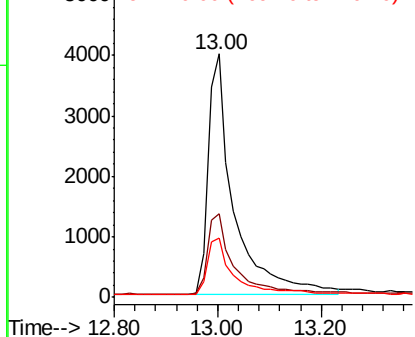
#15  
2-Fluorobiphenyl  
Concen: 0.407 ng  
RT: 13.00 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 13760  
Ion Ratio Lower Upper  
172 100  
171 34.4 28.2 42.2  
170 24.2 18.9 28.3

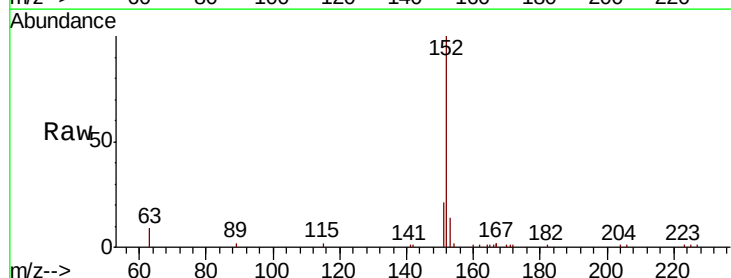


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

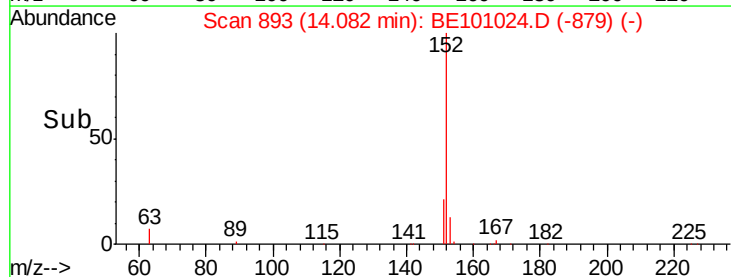
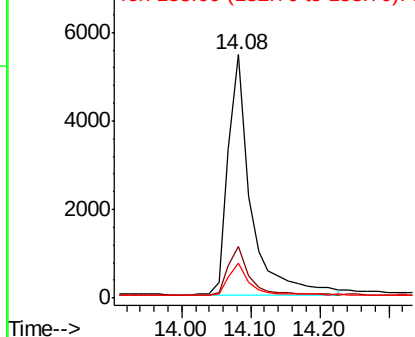


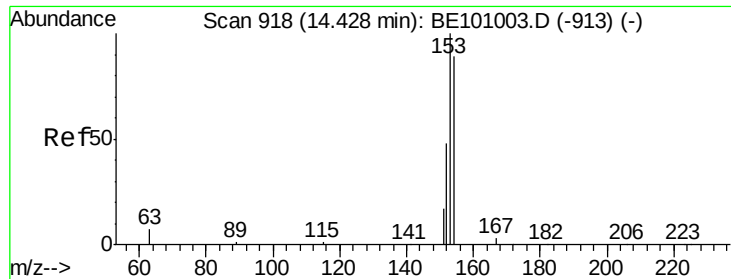
#16  
Acenaphthylene  
Concen: 0.346 ng  
RT: 14.08 min Scan# 893  
Delta R.T. -0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Tgt Ion:152 Resp: 12523  
Ion Ratio Lower Upper  
152 100  
151 20.3 15.5 23.3  
153 13.1 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

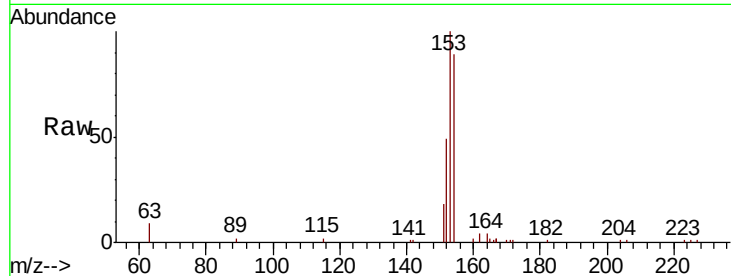




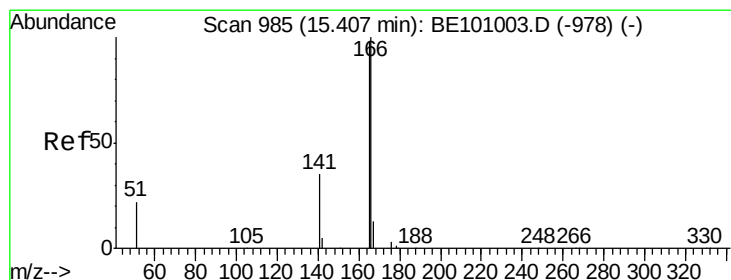
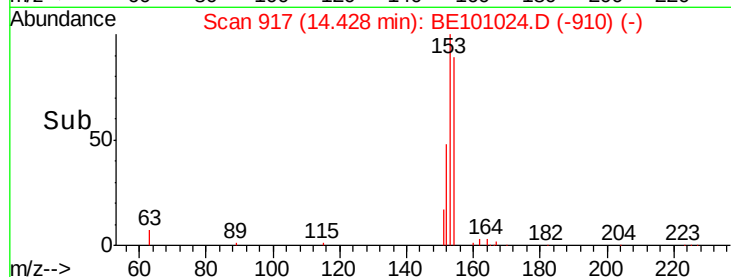
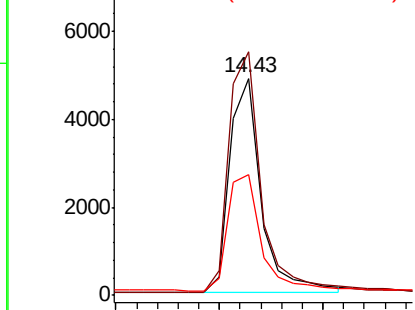
#17  
Acenaphthene  
Concen: 0.396 ng  
RT: 14.43 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 10278  
Ion Ratio Lower Upper  
154 100  
153 116.3 93.6 140.4  
152 57.6 46.3 69.5

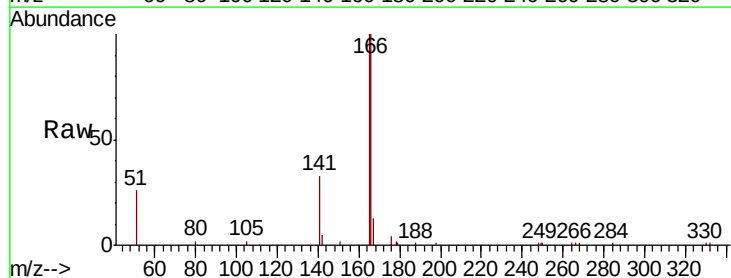


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

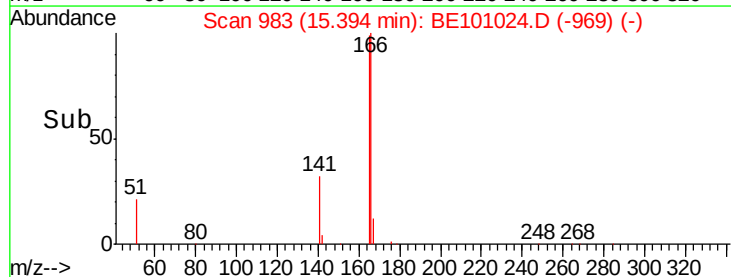
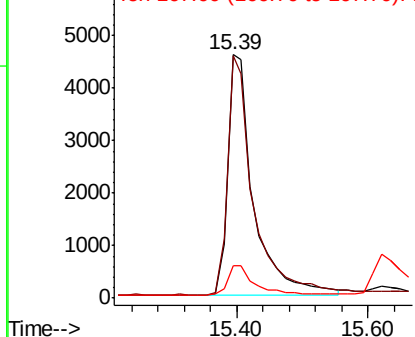


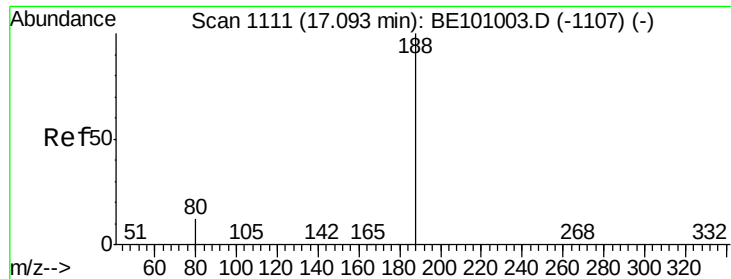
#18  
Fluorene  
Concen: 0.390 ng  
RT: 15.39 min Scan# 983  
Delta R.T. -0.01 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Tgt Ion:166 Resp: 12786  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.8 119.8  
167 13.4 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.09 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

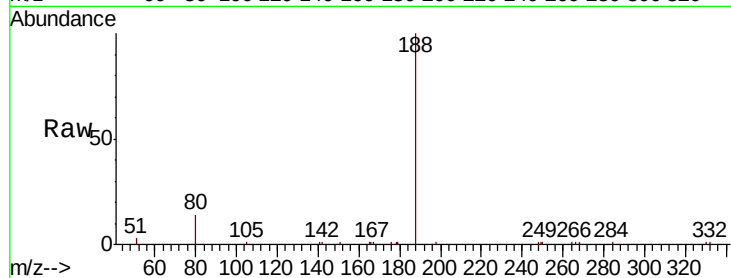
Tot Ion:188 Resp: 19451

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

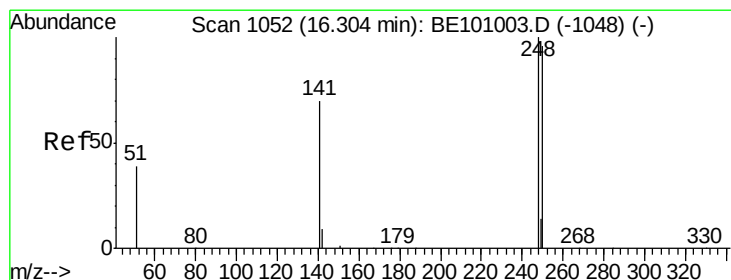
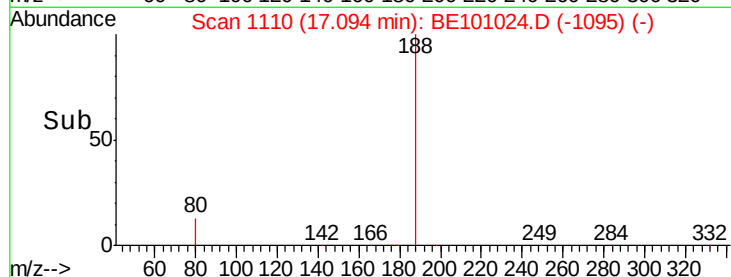
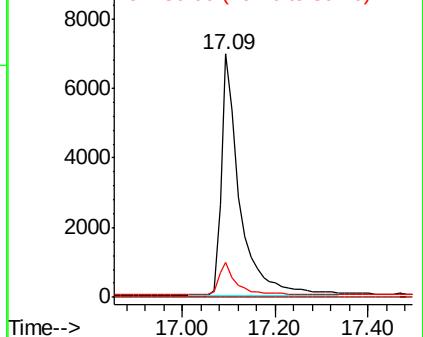
80 14.4 10.8 16.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.378 ng

RT: 16.30 min Scan# 1051

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

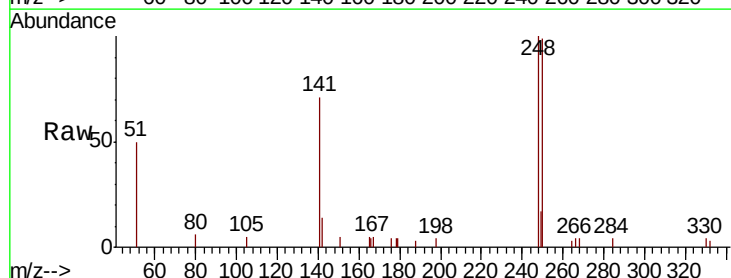
Tgt Ion:248 Resp: 3581

Ion Ratio Lower Upper

248 100

250 99.0 76.6 115.0

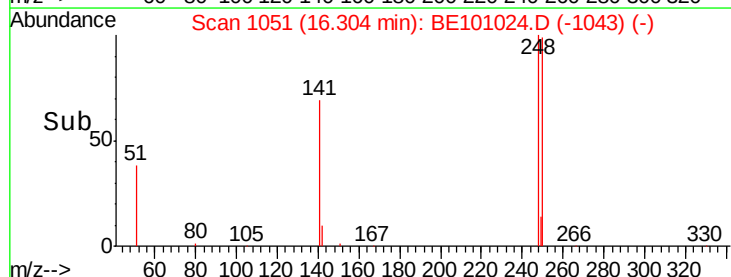
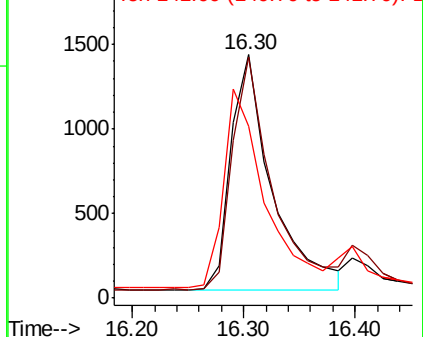
141 70.6 57.7 86.5

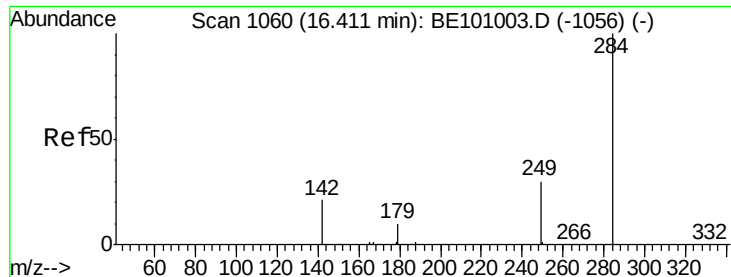


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

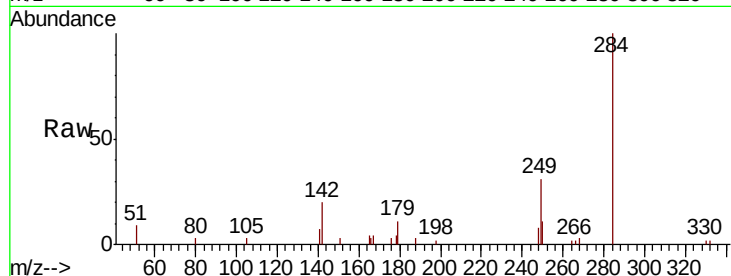




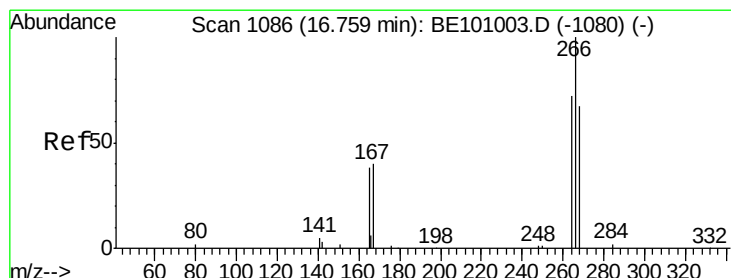
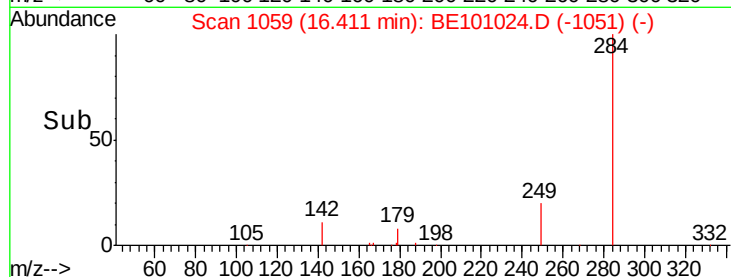
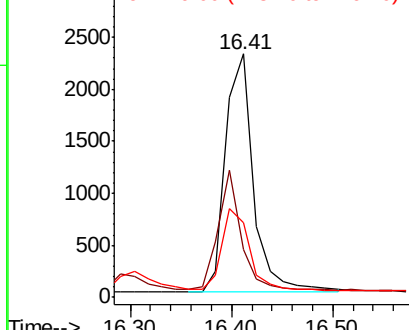
#21  
Hexachlorobenzene  
Concen: 0.424 ng  
RT: 16.41 min Scan# 1059  
Delta R.T. 0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

Instrument :  
BNA\_E  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 40.6  | 34.0  | 51.0  |
| 249     | 33.5  | 28.2  | 42.4  |

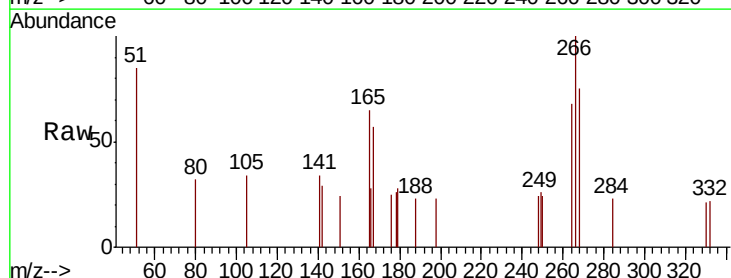


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

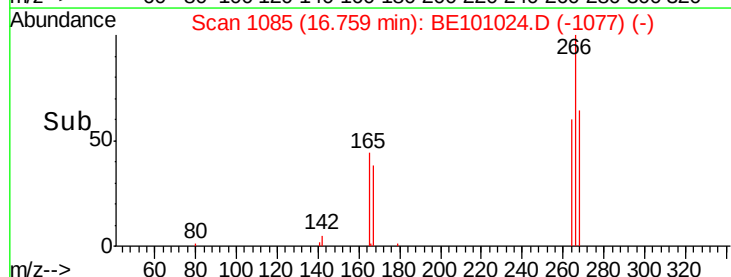
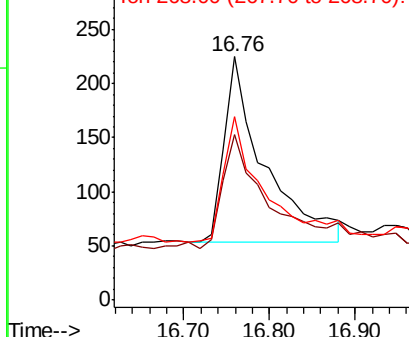


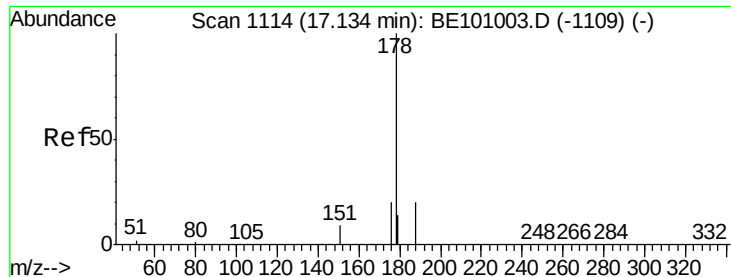
#22  
Pentachlorophenol  
Concen: 0.401 ng  
RT: 16.76 min Scan# 1085  
Delta R.T. 0.00 min  
Lab File: BE101024.D  
Acq: 10 Jan 2020 15:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 68.0  | 61.0  | 91.4  |
| 268     | 75.1  | 58.5  | 87.7  |



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.395 ng

RT: 17.13 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampled :

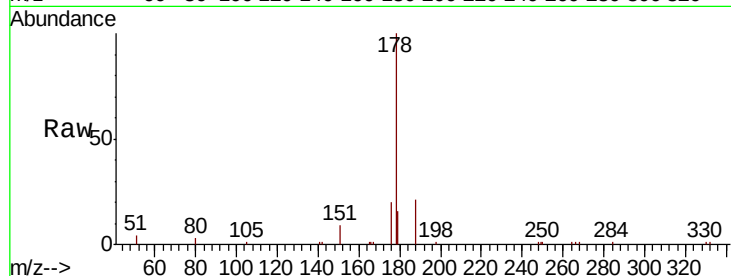
Tot Ion:178 Resp: 20958

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

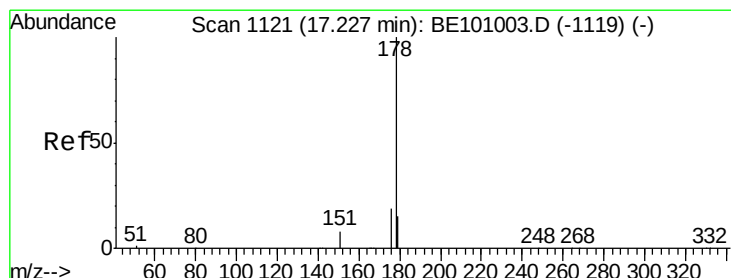
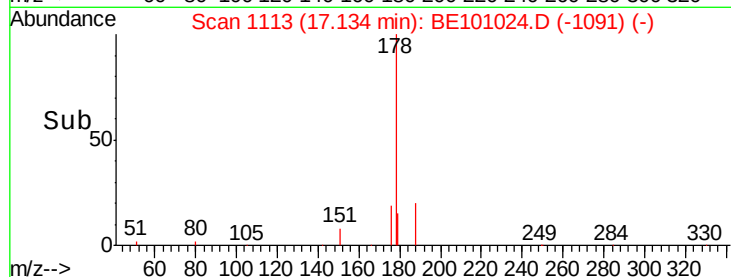
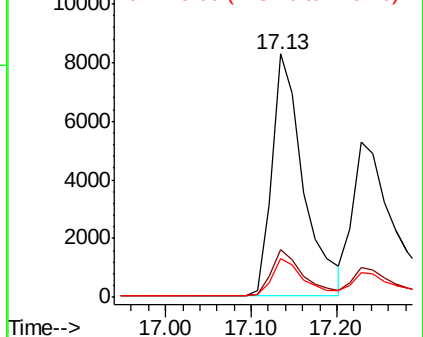
179 15.4 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.377 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

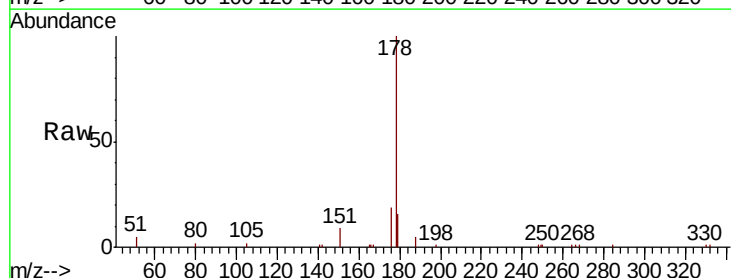
Tgt Ion:178 Resp: 18880

Ion Ratio Lower Upper

178 100

176 18.2 14.8 22.2

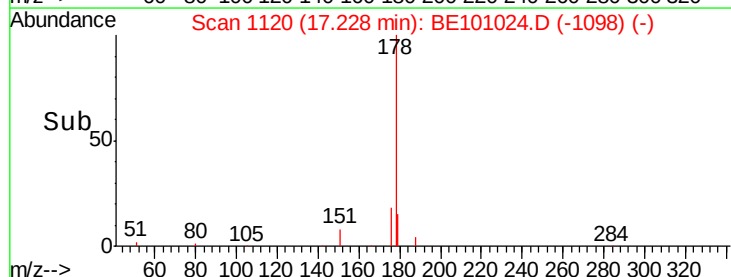
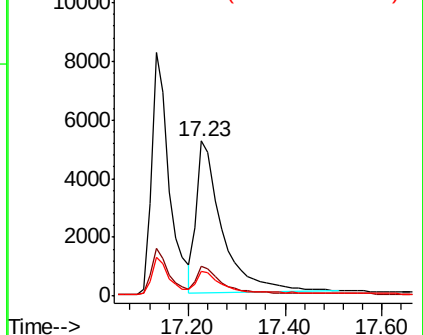
179 15.4 12.4 18.6

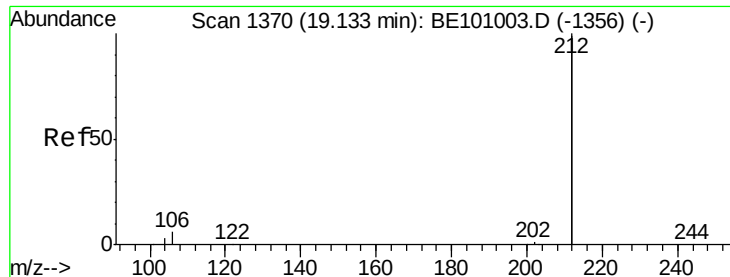


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.13 min Scan# 1368

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

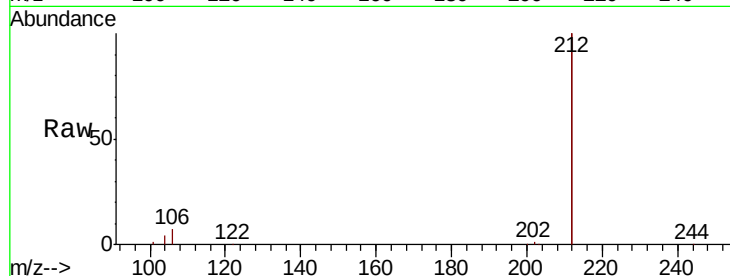
Tot Ion:212 Resp: 97141

Ion Ratio Lower Upper

212 100

106 3.2 2.6 3.8

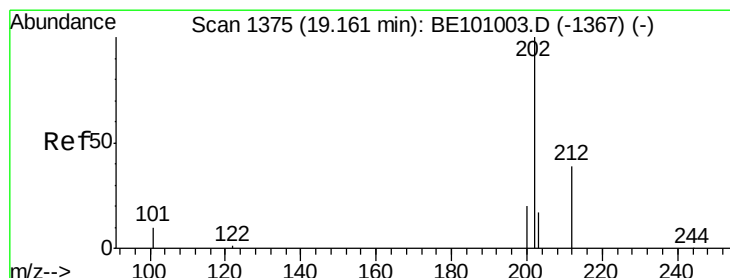
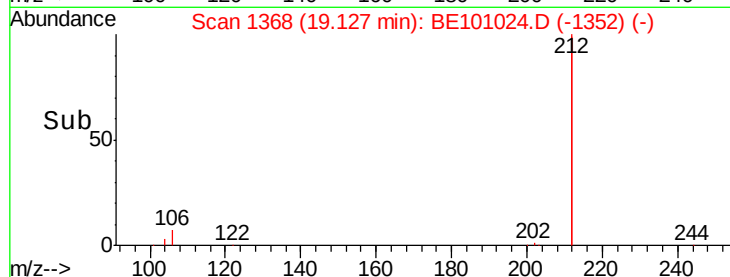
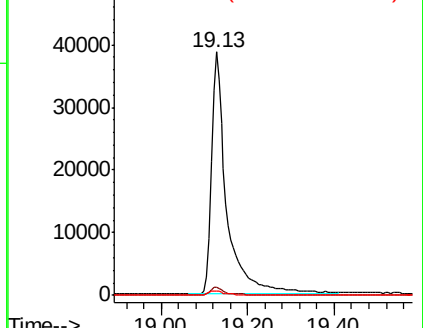
104 1.8 1.4 2.0



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.363 ng

RT: 19.16 min Scan# 1373

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

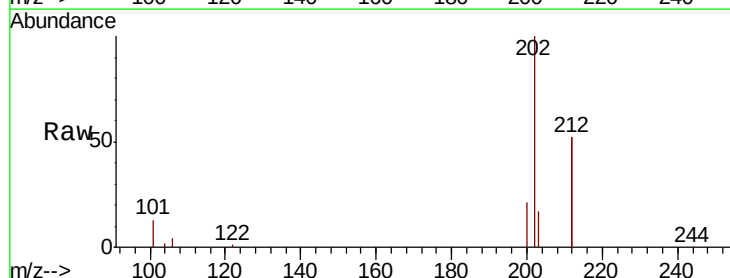
Tgt Ion:202 Resp: 24148

Ion Ratio Lower Upper

202 100

101 11.6 9.6 14.4

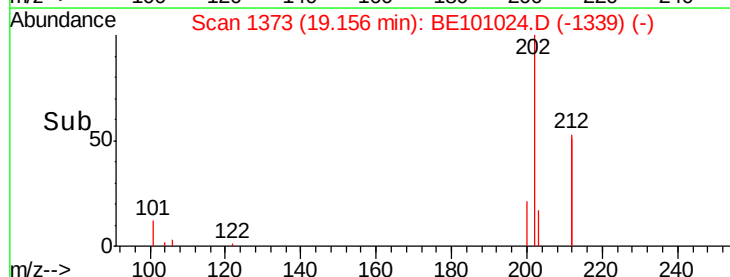
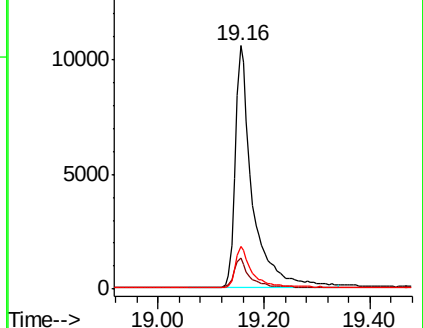
203 16.3 13.8 20.6

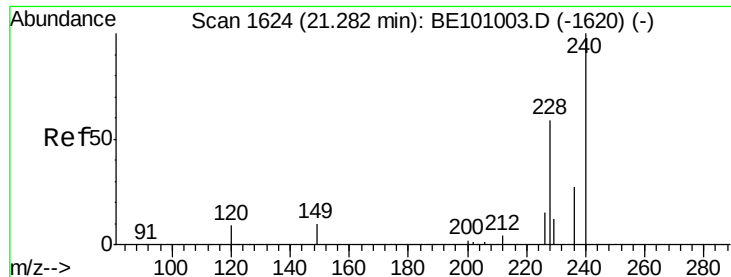


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

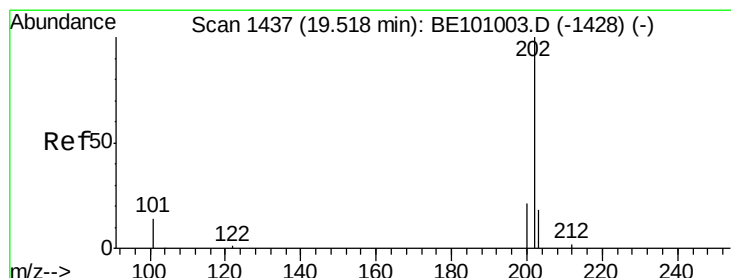
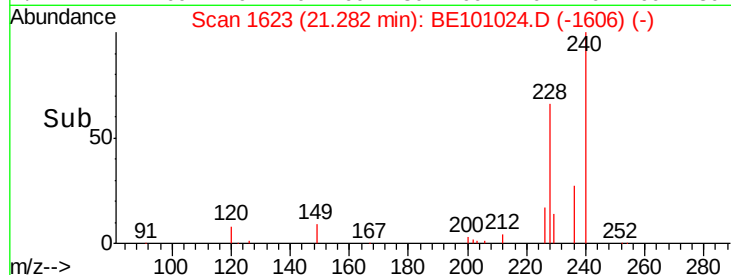
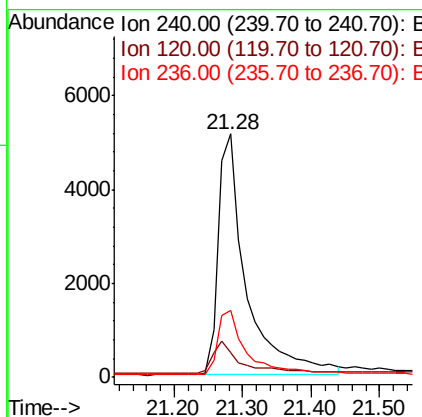
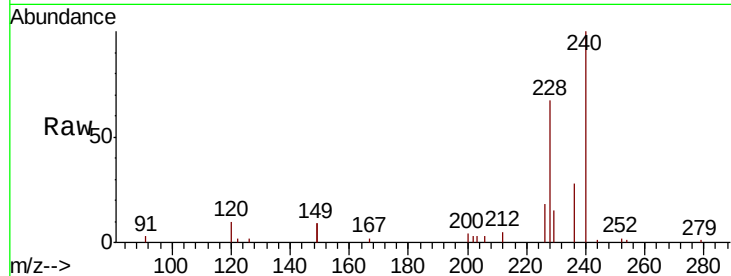




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.28 min Scan# 1623  
 Delta R.T. 0.00 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

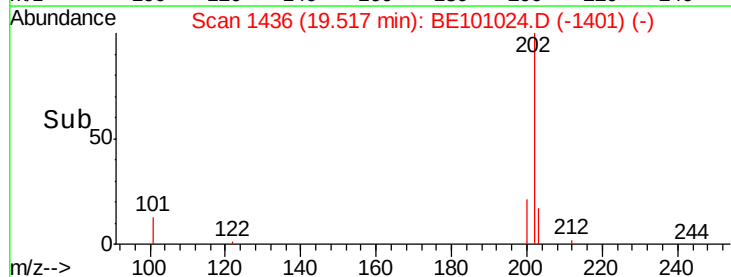
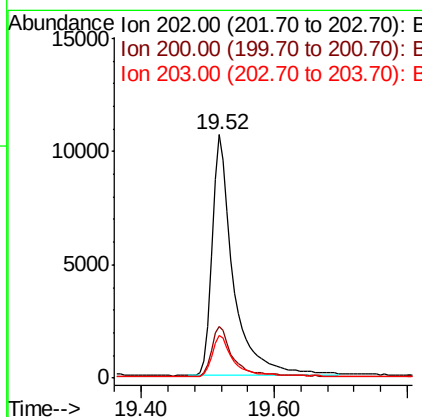
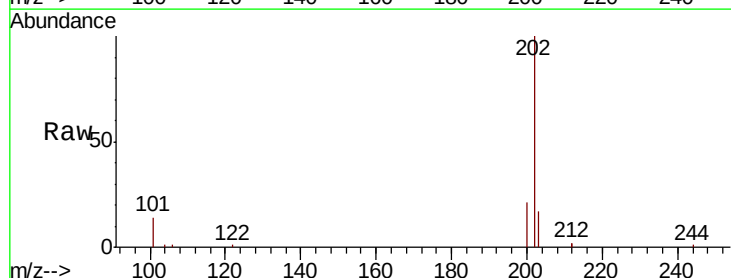
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:240 Resp: 14648  
 Ion Ratio Lower Upper  
 240 100  
 120 10.0 8.6 13.0  
 236 27.7 22.2 33.4

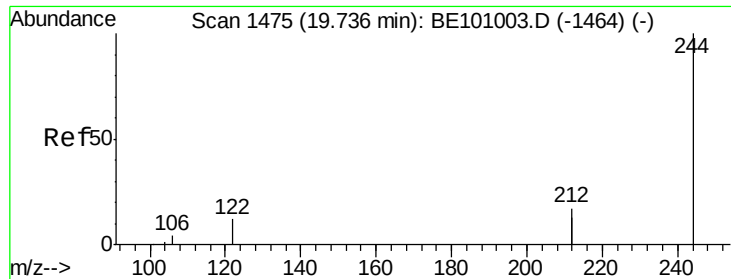


#28  
 Pyrene  
 Concen: 0.434 ng  
 RT: 19.52 min Scan# 1436  
 Delta R.T. -0.00 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

Tgt Ion:202 Resp: 23687  
 Ion Ratio Lower Upper  
 202 100  
 200 20.6 17.0 25.4  
 203 17.2 13.8 20.6







#29

Terphenyl-d14

Concen: 0.425 ng

RT: 19.74 min Scan# 1474

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

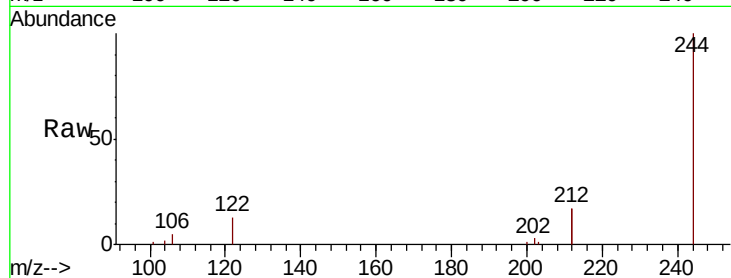
Tot Ion:244 Resp: 15298

Ion Ratio Lower Upper

244 100

212 33.9 27.2 40.8

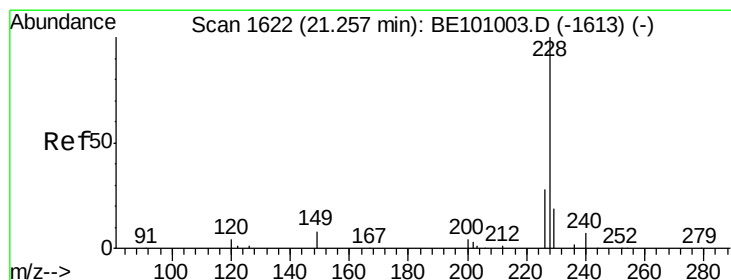
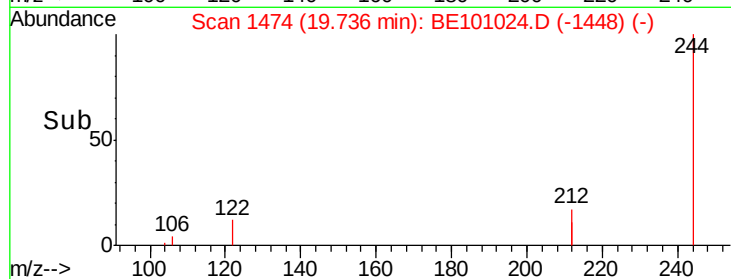
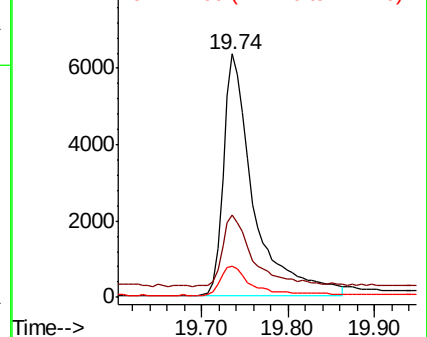
122 12.9 9.8 14.8



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: 0.311 ng

RT: 21.26 min Scan# 1621

Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

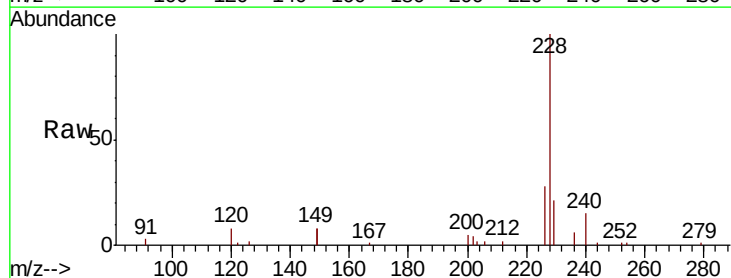
Tgt Ion:228 Resp: 13013

Ion Ratio Lower Upper

228 100

226 28.0 22.7 34.1

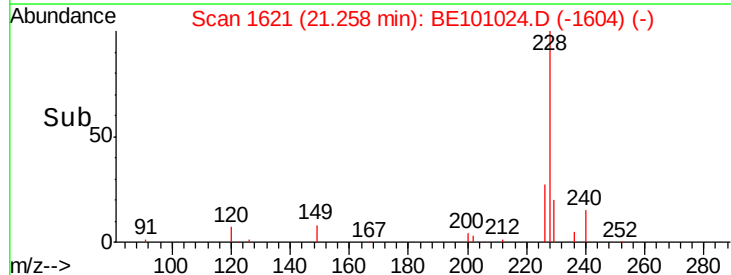
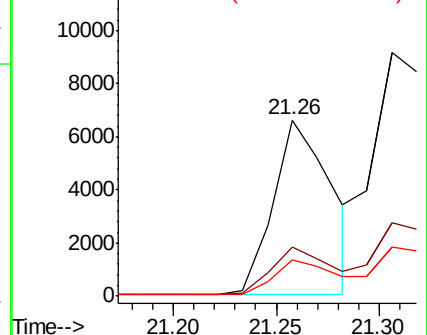
229 20.5 15.5 23.3

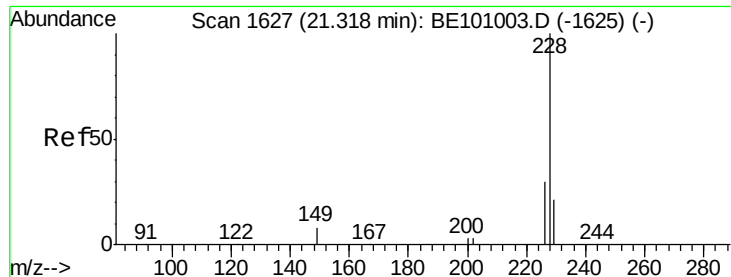


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.458 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

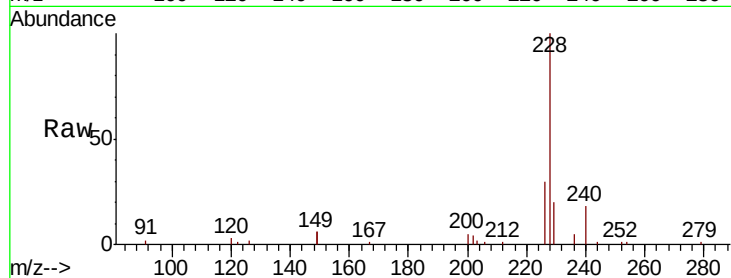
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 28434

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.4  | 23.5  | 35.3  |
| 229 | 20.0  | 16.7  | 25.1  |

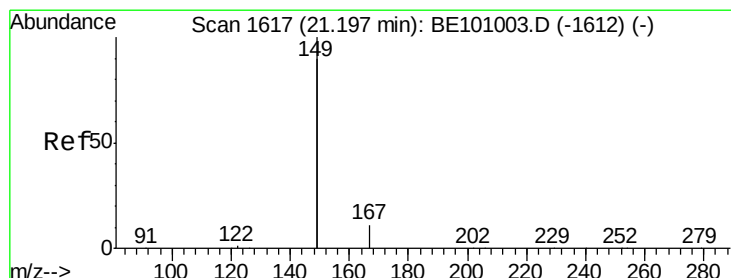
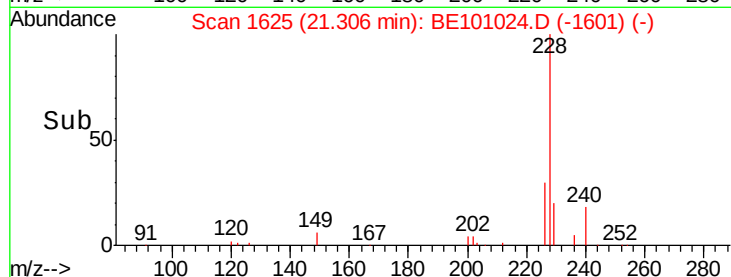
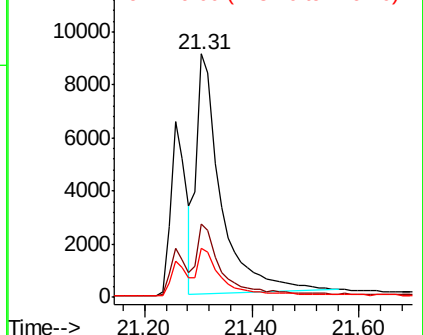


Abundance

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: 0.293 ng

RT: 21.20 min Scan# 1616

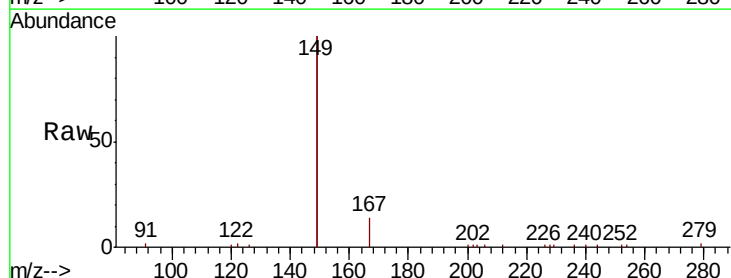
Delta R.T. 0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Tgt Ion:149 Resp: 20396

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.6   | 5.2   | 7.8   |
| 279 | 1.1   | 0.8   | 1.2   |

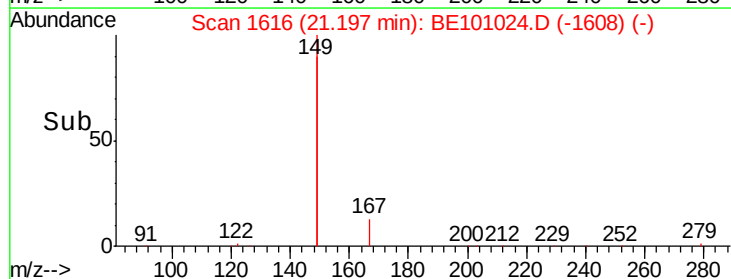
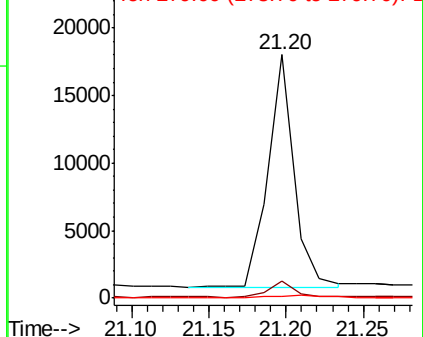


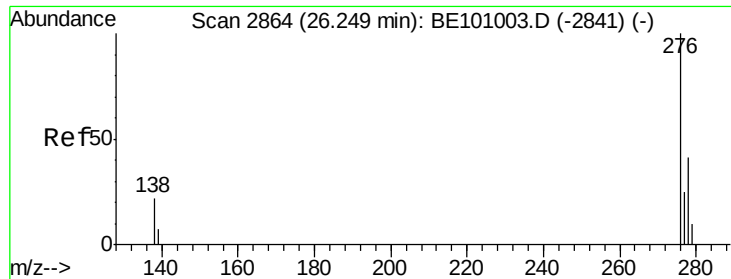
Abundance

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

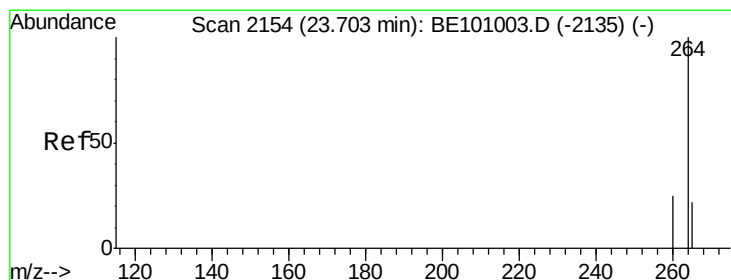
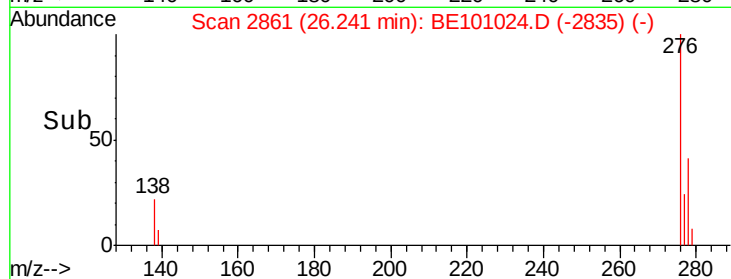
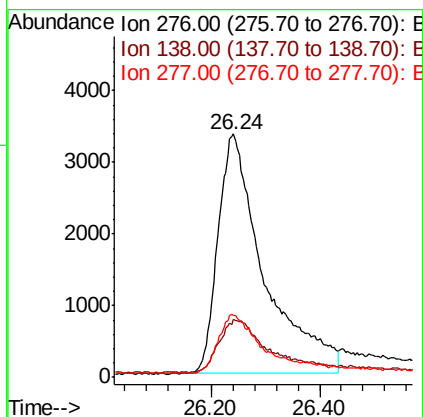
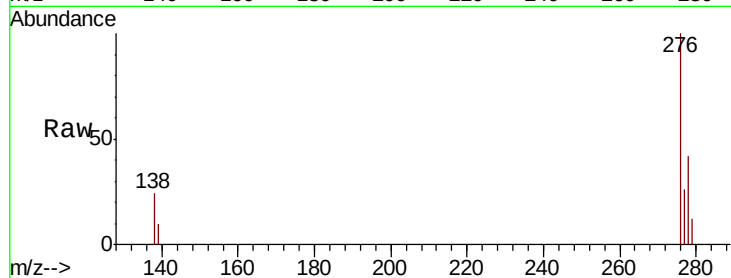




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.401 ng  
 RT: 26.24 min Scan# 2861  
 Delta R.T. -0.01 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

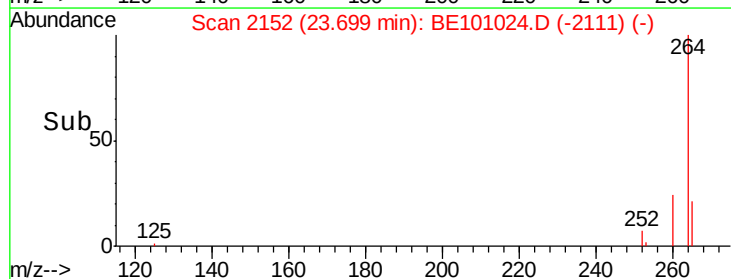
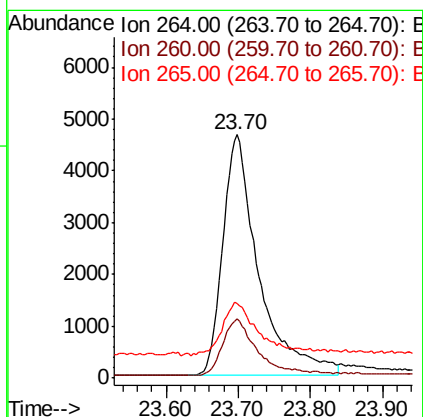
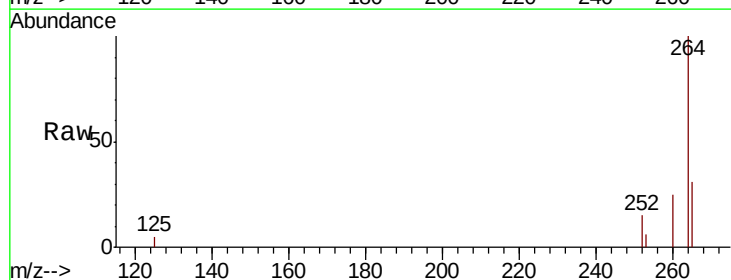
Instrument :  
 BNA\_E  
 ClientSampleId :

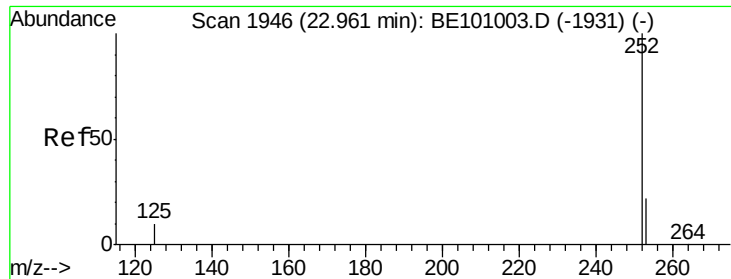
Tot Ion:276 Resp: 19688  
 Ion Ratio Lower Upper  
 276 100  
 138 22.5 16.1 24.1  
 277 22.4 18.1 27.1



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.70 min Scan# 2152  
 Delta R.T. -0.00 min  
 Lab File: BE101024.D  
 Acq: 10 Jan 2020 15:02

Tgt Ion:264 Resp: 15880  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 20.3 30.5  
 265 30.6 27.0 40.4





#35

Benzo(b)fluoranthene

Concen: 0.320 ng

RT: 22.95 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BE101024.D

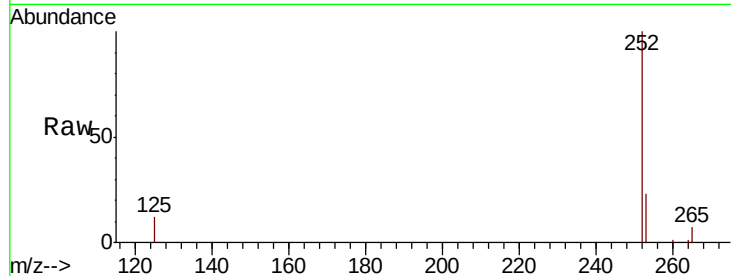
Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

|             |       |       |      |
|-------------|-------|-------|------|
| Tot Ion:252 | Resp: | 14257 |      |
| Ion Ratio   | Lower | Upper |      |
| 252         | 100   |       |      |
| 253         | 23.4  | 18.5  | 27.7 |
| 125         | 11.9  | 9.5   | 14.3 |

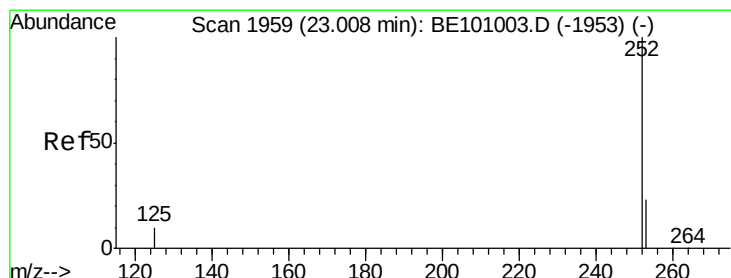
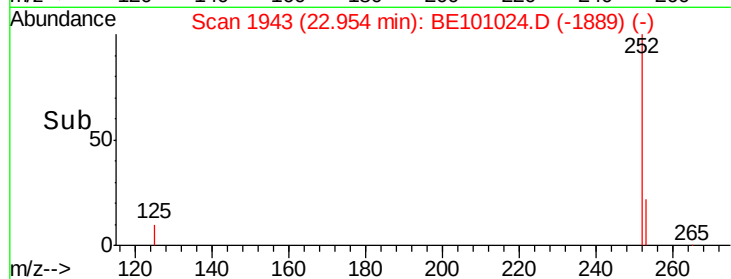
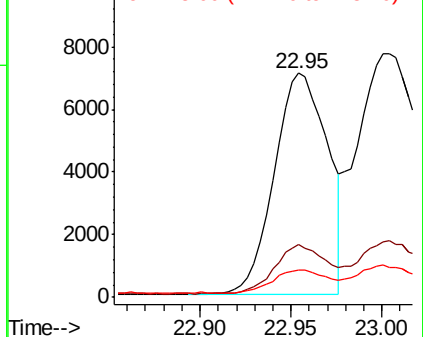


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.382 ng

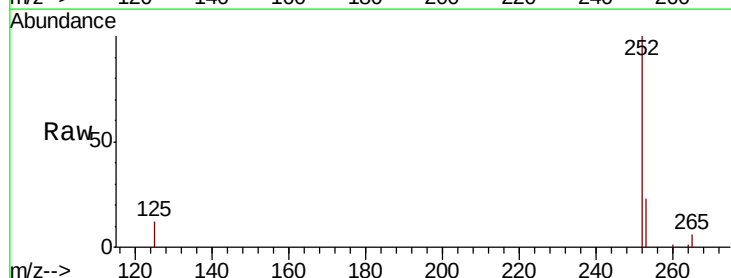
RT: 23.00 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:252 | Resp: | 24653 |
| Ion | Ratio   | Lower | Upper |
| 252 | 100     |       |       |
| 253 | 23.1    | 18.9  | 28.3  |
| 125 | 12.5    | 10.1  | 15.1  |

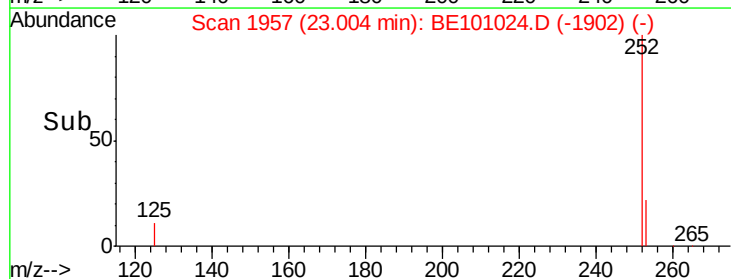
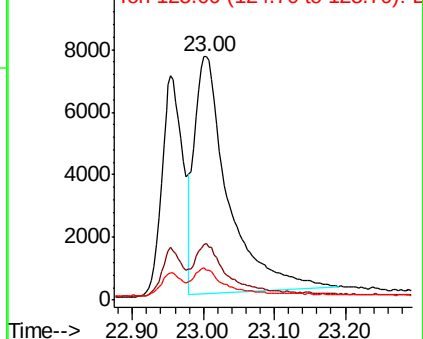


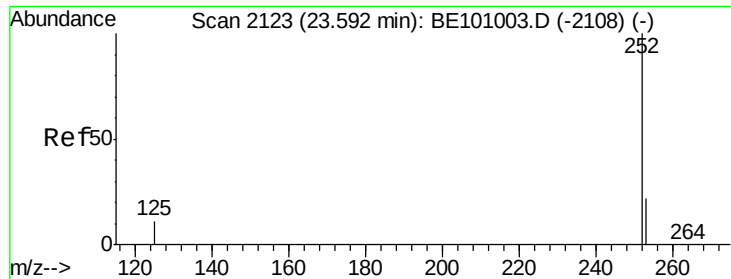
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.59 min Scan# 2121

Delta R.T. -0.00 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :

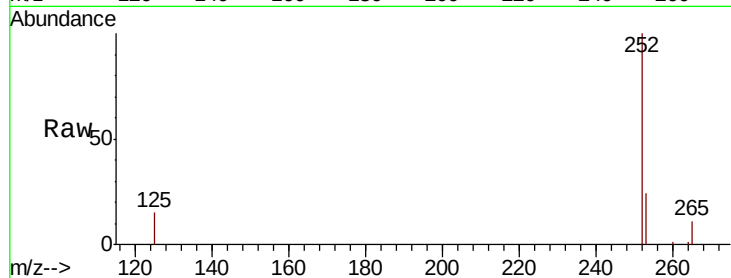
Tot Ion:252 Resp: 16159

Ion Ratio Lower Upper

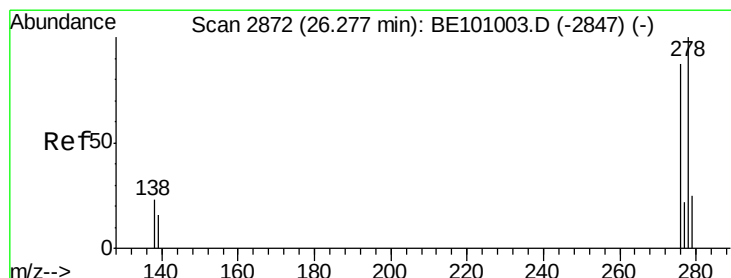
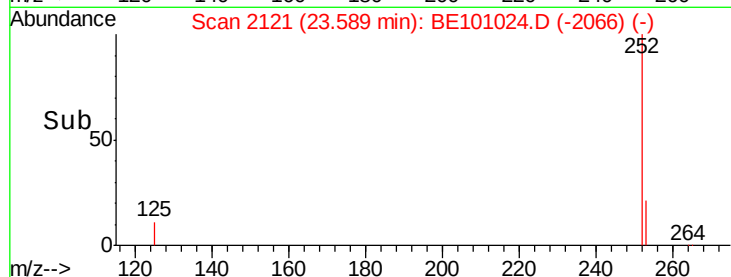
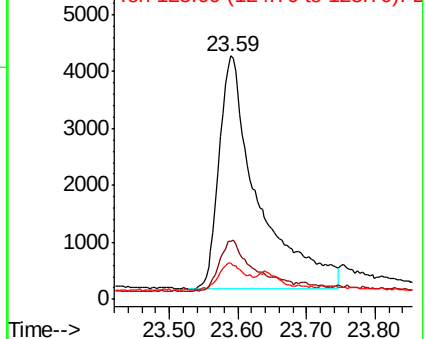
252 100

253 23.6 19.4 29.2

125 14.8 11.8 17.6



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.354 ng

RT: 26.27 min Scan# 2868

Delta R.T. -0.01 min

Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

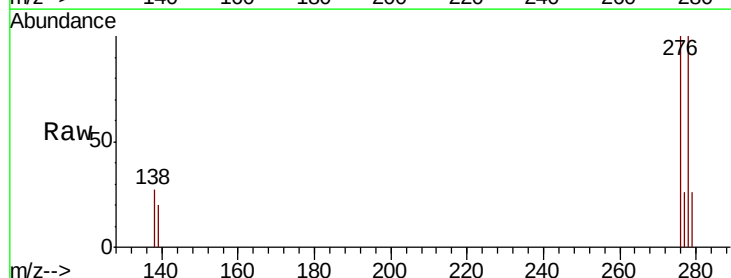
Tgt Ion:278 Resp: 14023

Ion Ratio Lower Upper

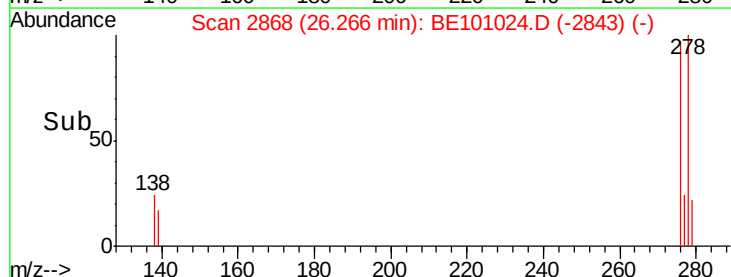
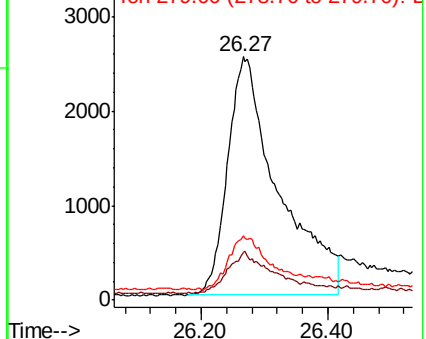
278 100

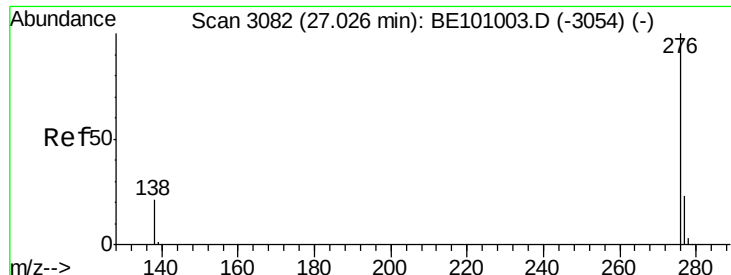
139 19.6 15.0 22.4

279 26.3 22.6 33.8



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.378 ng

RT: 27.01 min Scan# 3077

Delta R.T. -0.01 min

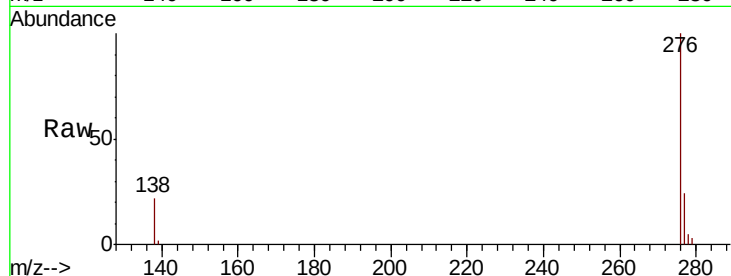
Lab File: BE101024.D

Acq: 10 Jan 2020 15:02

Instrument :

BNA\_E

ClientSampleId :



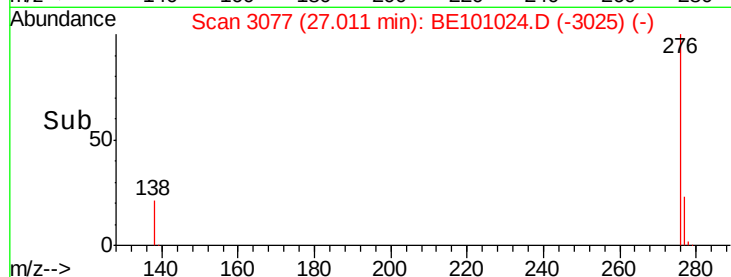
Tot Ion: 276 Resp: 18406

Ion Ratio Lower Upper

276 100

277 24.4 19.4 29.2

138 22.4 17.9 26.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

