

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE112219\  
 Data File : BE100766.D  
 Acq On : 22 Nov 2019 20:12  
 Operator : JU  
 Sample : K5969-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 HF-608U

Quant Time: Nov 23 04:25:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE112119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 22 06:40:44 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 6152     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.55 | 136  | 27550    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 16304    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.13 | 188  | 39300    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.32 | 240  | 40002    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.77 | 264  | 44833    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.38  | 112  | 2562     | 0.15 | ng    | 0.00     |
| 5) Phenol-d6                | 6.93  | 99   | 2536     | 0.10 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.90  | 82   | 5945     | 0.67 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152  | 14749    | 0.37 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330  | 1871     | 0.81 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.03 | 172  | 21081    | 0.33 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.17 | 212  | 176420   | 0.37 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.77 | 244  | 36907    | 0.40 | ng    | 0.00     |

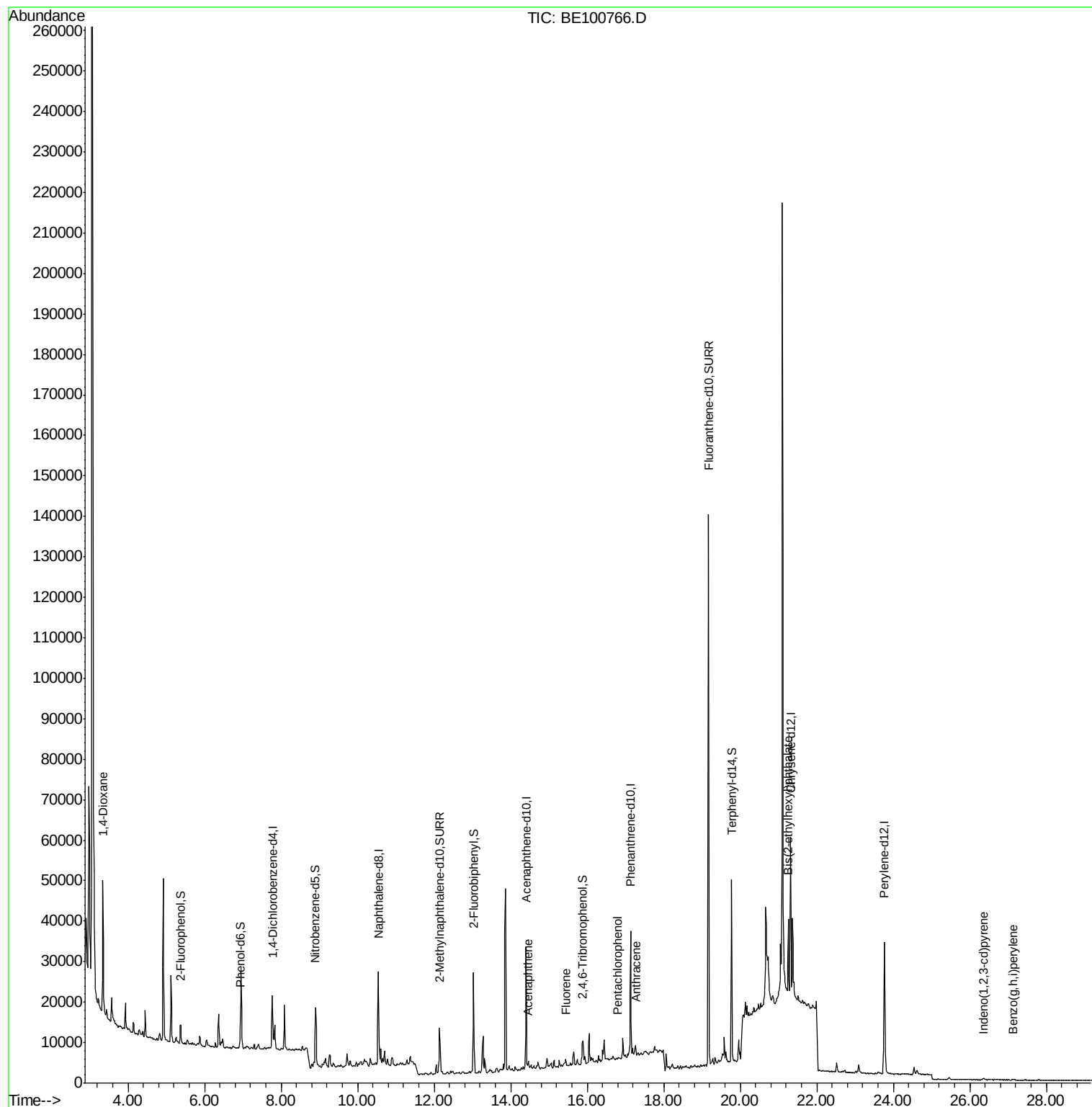
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88   | 21051    | 1.824 | ng    | 97     |
| 17) Acenaphthene               | 14.46 | 154  | 1042     | 0.022 | ng    | 95     |
| 18) Fluorene                   | 15.43 | 166  | 1317     | 0.022 | ng    | # 81   |
| 22) Pentachlorophenol          | 16.79 | 266  | 65       | 0.075 | ng    | # 69   |
| 24) Anthracene                 | 17.27 | 178  | 2424     | 0.024 | ng    | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 19459    | 0.059 | ng    | # 98   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.35 | 276  | 296      | 0.039 | ng    | # 75   |
| 39) Benzo(q,h,i)perylene       | 27.13 | 276  | 400      | 0.025 | ng    | # 1    |

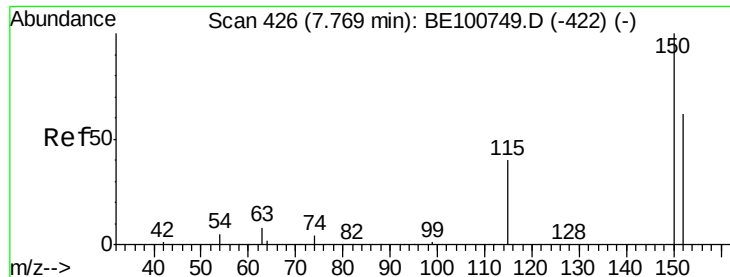
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.77 min Scan# 426

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

HF-608U

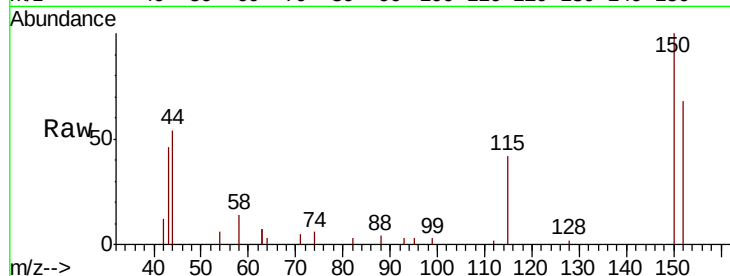
Tot Ion:152 Resp: 6152

Ion Ratio Lower Upper

152 100

150 146.2 127.1 190.7

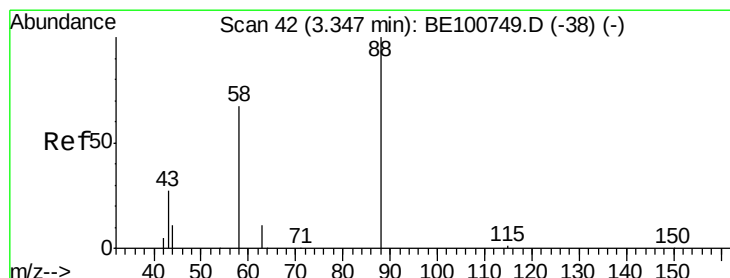
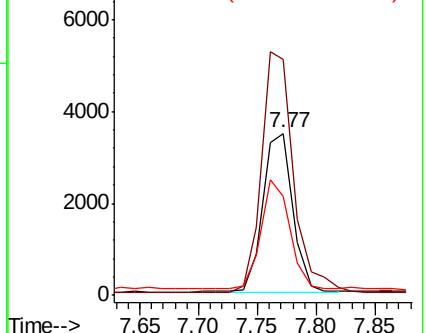
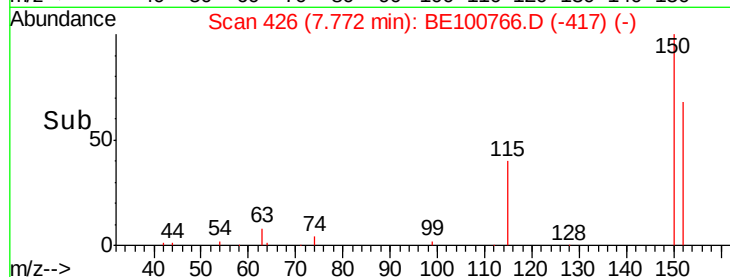
115 61.4 53.0 79.4



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: 1.824 ng

RT: 3.34 min Scan# 41

Delta R.T. -0.01 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

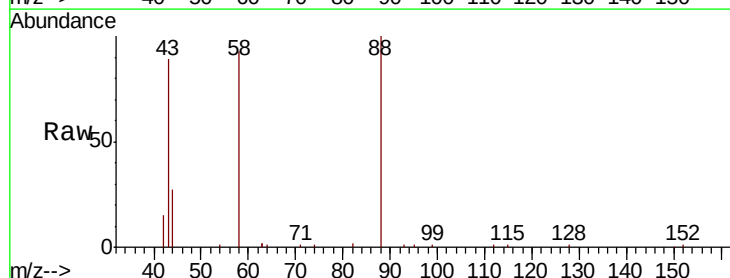
Tgt Ion: 88 Resp: 21051

Ion Ratio Lower Upper

88 100

58 75.5 60.7 91.1

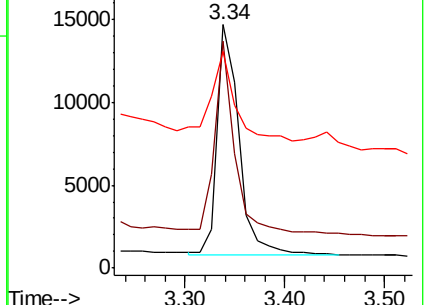
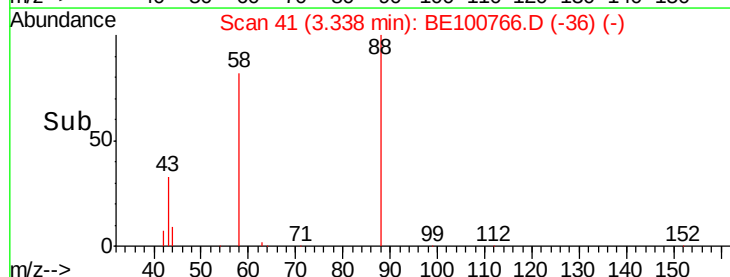
43 38.9 27.4 41.2

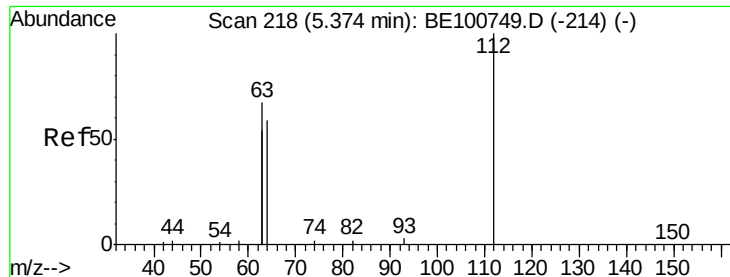


Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#4

2-Fluorophenol

Concen: 0.154 ng

RT: 5.38 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

HF-608U

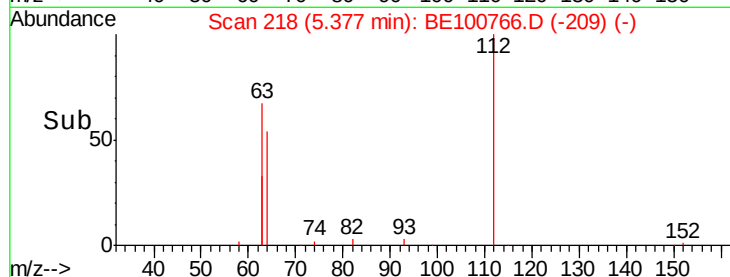
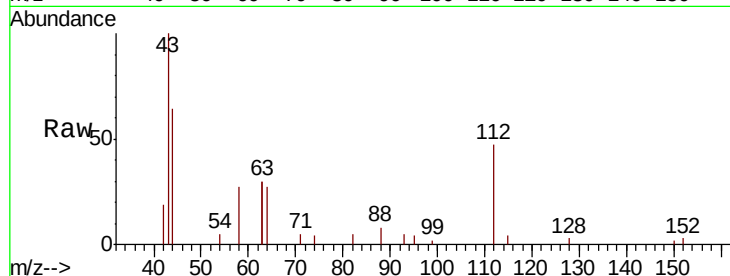
Tot Ion:112 Resp: 2562

Ion Ratio Lower Upper

112 100

64 66.5 54.3 81.5

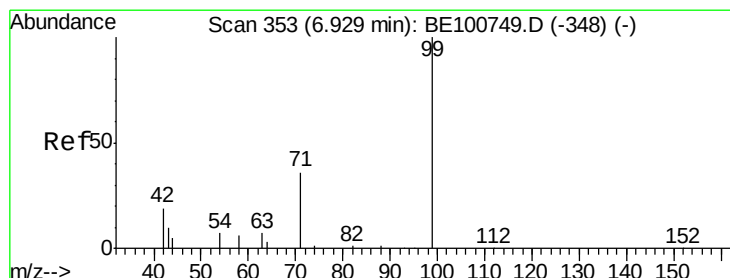
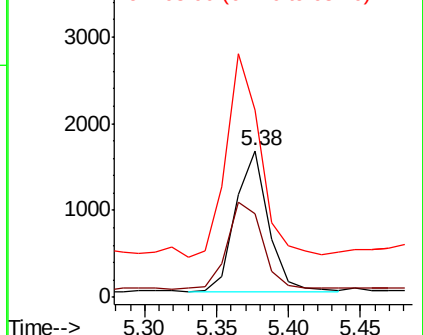
63 146.1 114.0 171.0



Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1



#5

Phenol-d6

Concen: 0.105 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

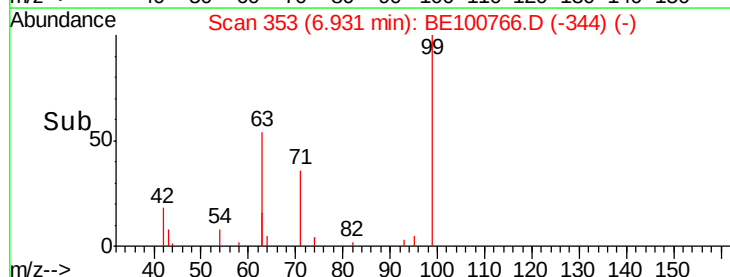
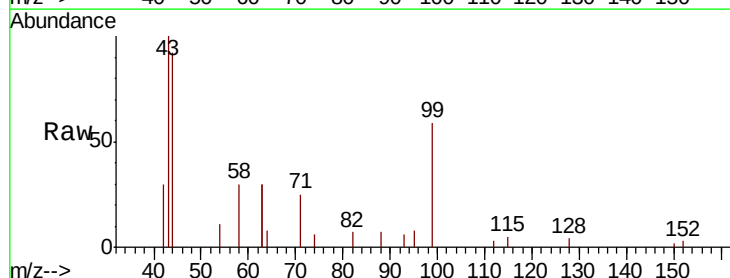
Tgt Ion: 99 Resp: 2536

Ion Ratio Lower Upper

99 100

42 52.3 17.9 26.9#

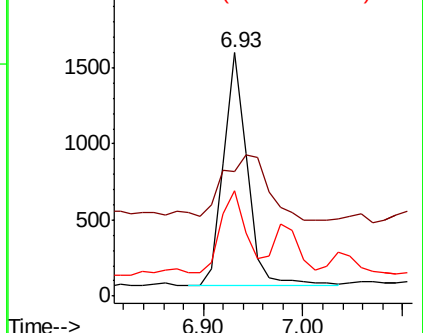
71 36.7 29.3 43.9

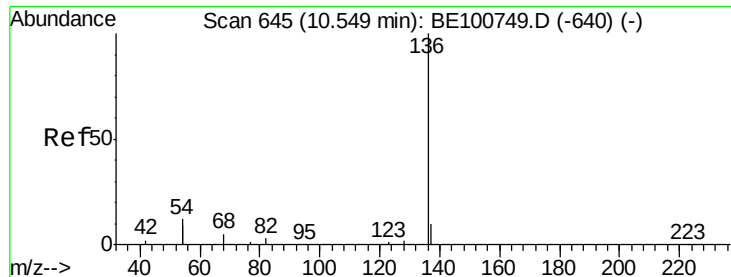


Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.55 min Scan# 645

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

HF-608U

Tot Ion:136 Resp: 27550

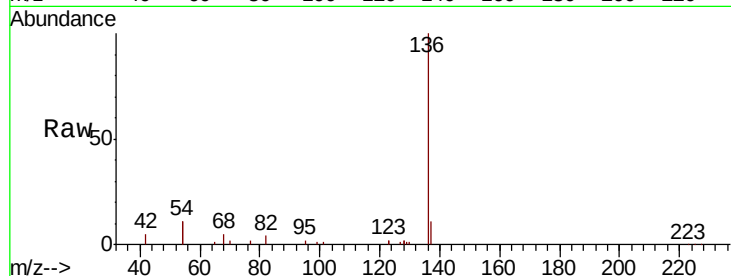
Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

54 21.7 19.4 29.0

68 5.3 4.6 6.8

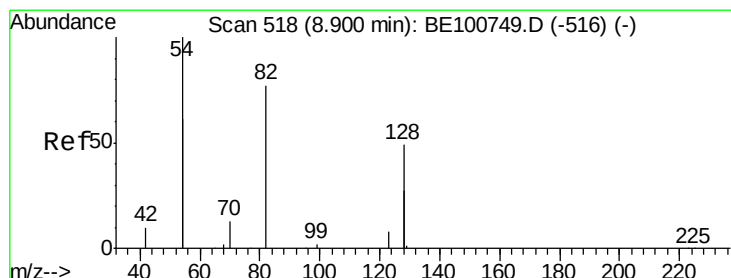
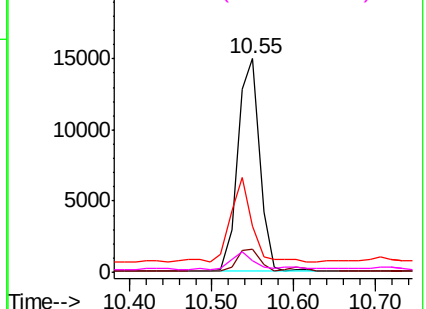
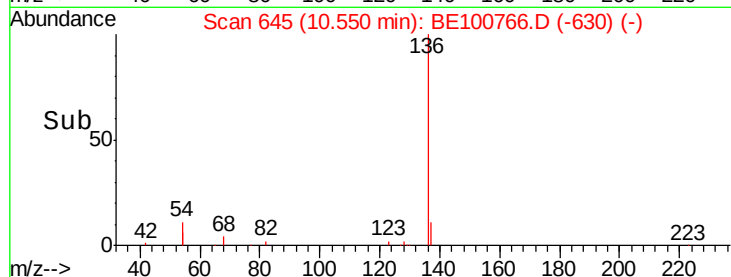


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.673 ng

RT: 8.90 min Scan# 518

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

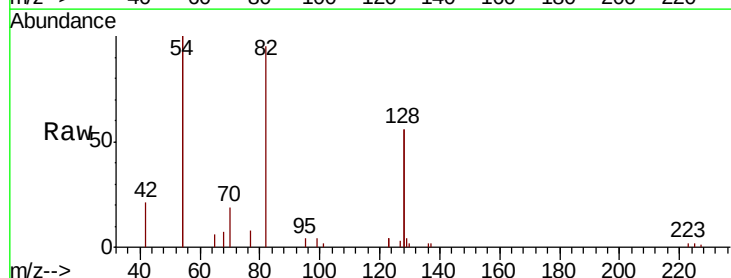
Tgt Ion: 82 Resp: 5945

Ion Ratio Lower Upper

82 100

128 117.5 90.2 135.4

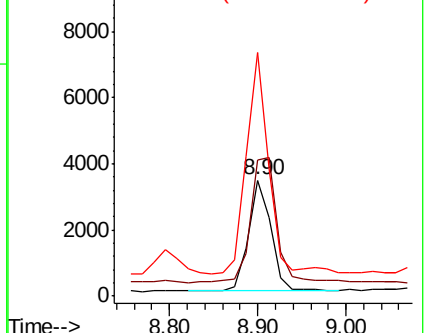
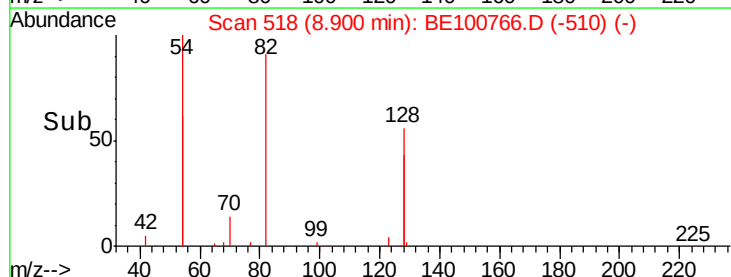
54 209.7 186.0 279.0

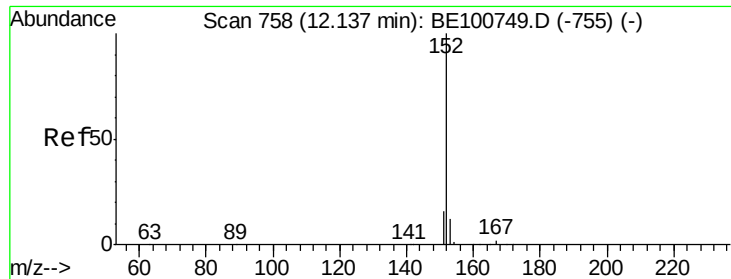


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1

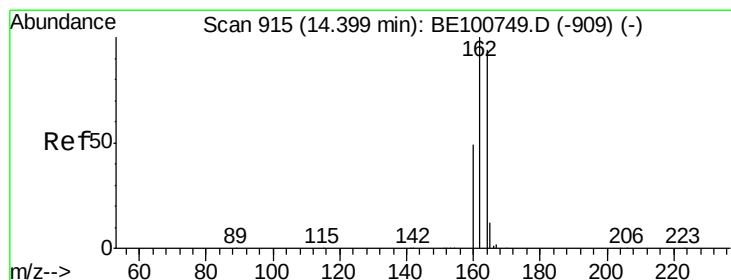
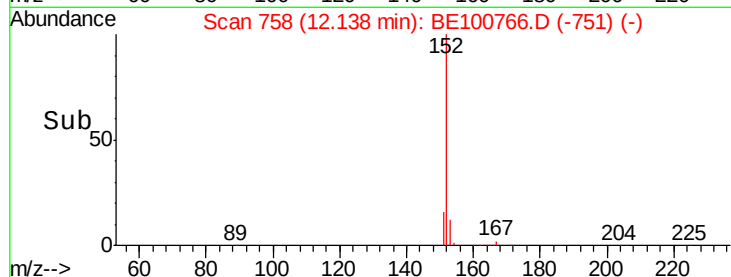
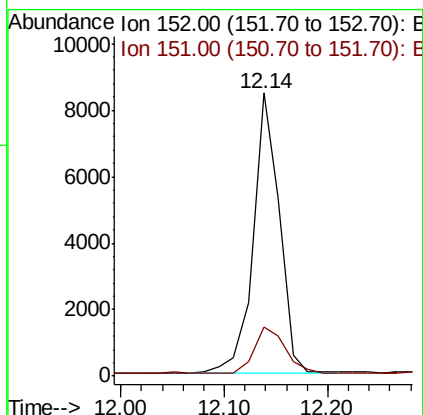
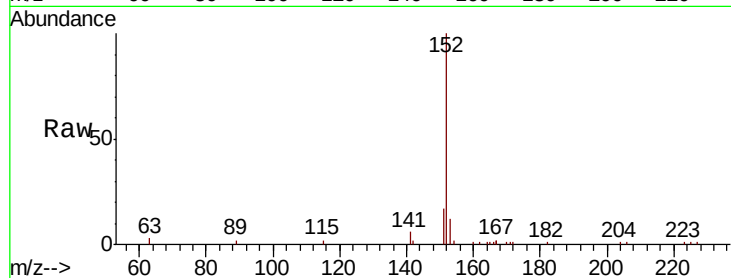




#11  
2-Methylnaphthalene-d10  
Concen: 0.365 ng  
RT: 12.14 min Scan# 758  
Delta R.T. 0.00 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

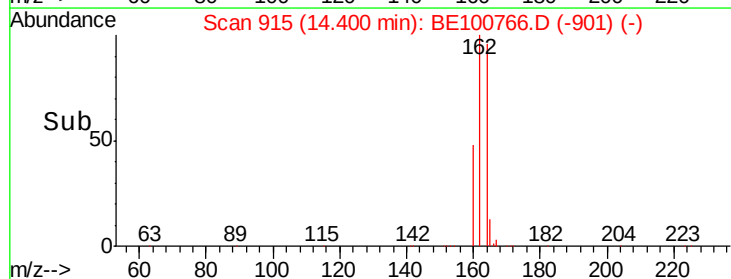
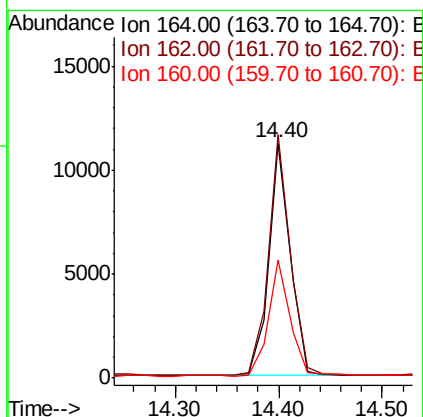
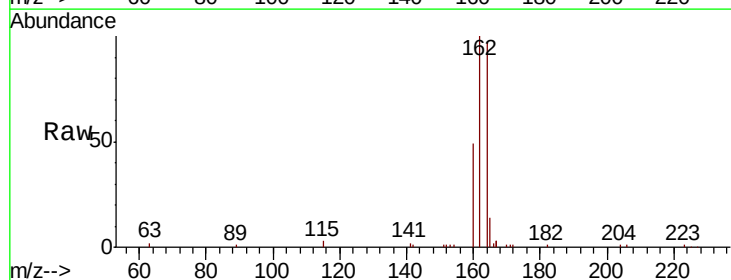
Instrument :  
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HF-608U

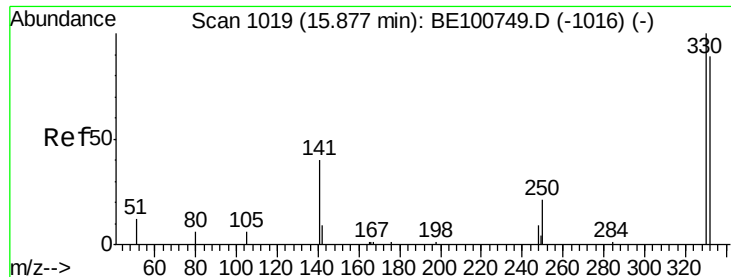
Tot Ion:152 Resp: 14749  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.8 23.8



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.40 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Tgt Ion:164 Resp: 16304  
Ion Ratio Lower Upper  
164 100  
162 103.5 84.8 127.2  
160 50.3 42.3 63.5

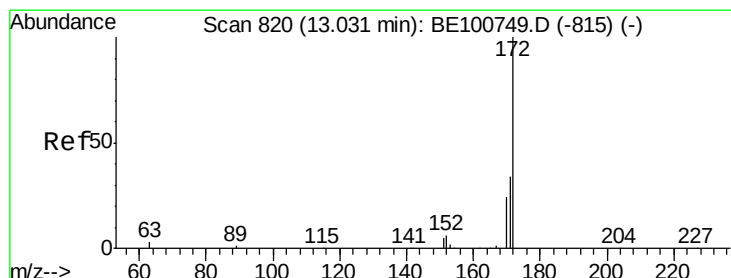
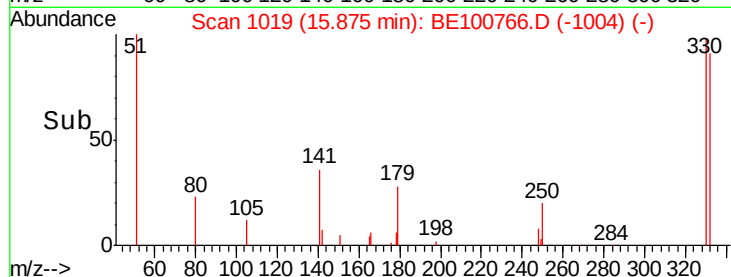
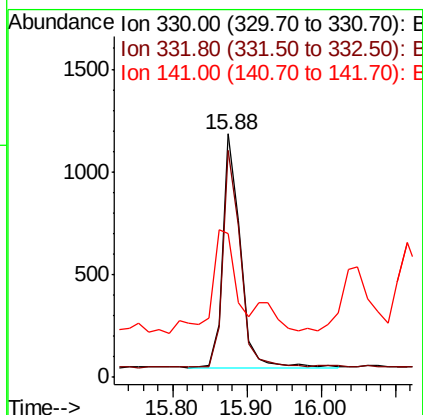
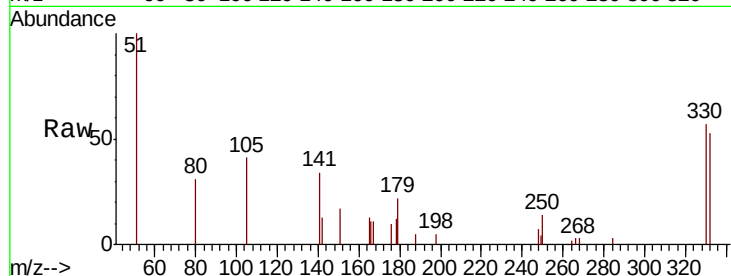




#14  
 2,4,6-Tribromophenol  
 Concen: 0.814 ng  
 RT: 15.88 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: BE100766.D  
 Acq: 22 Nov 2019 20:12

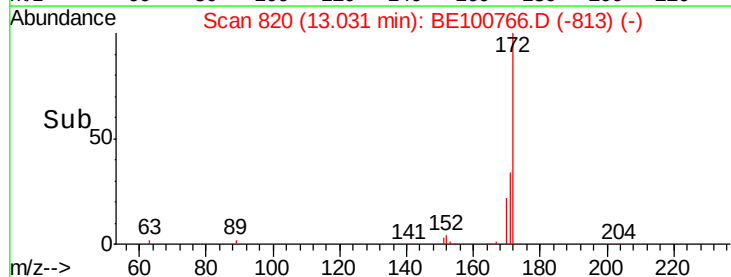
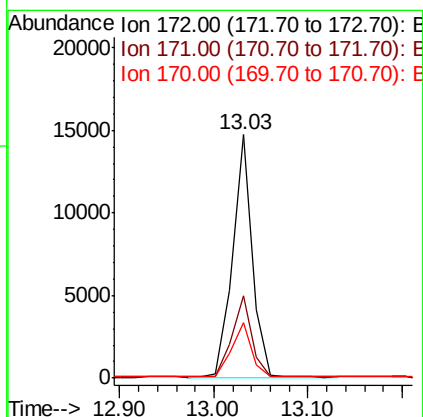
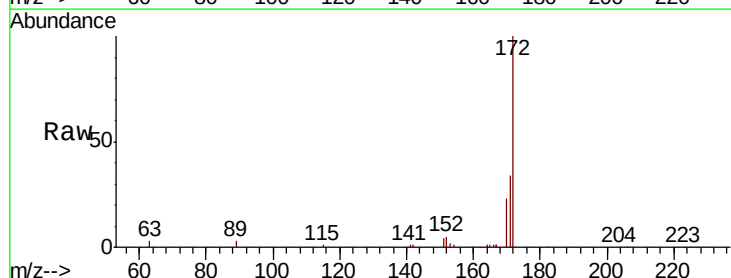
Instrument :  
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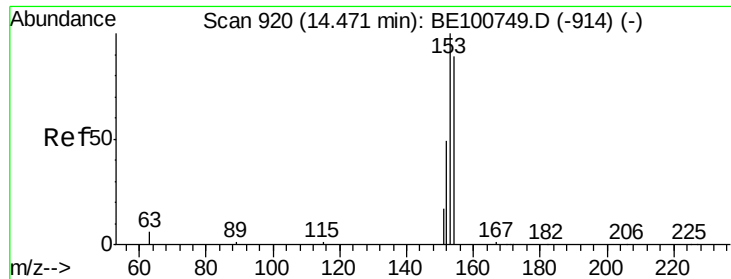
Tot Ion:330 Resp: 1871  
 Ion Ratio Lower Upper  
 330 100  
 332 92.4 79.3 118.9  
 141 61.4 43.8 65.6



#15  
 2-Fluorobiphenyl  
 Concen: 0.333 ng  
 RT: 13.03 min Scan# 820  
 Delta R.T. 0.00 min  
 Lab File: BE100766.D  
 Acq: 22 Nov 2019 20:12

Tgt Ion:172 Resp: 21081  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 27.8 41.6  
 170 22.8 19.4 29.2

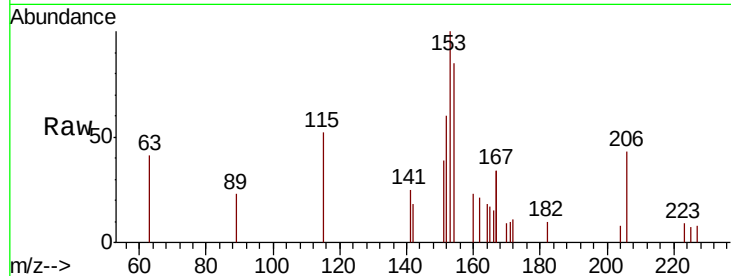




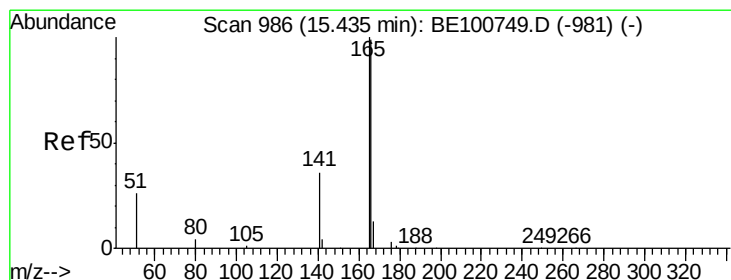
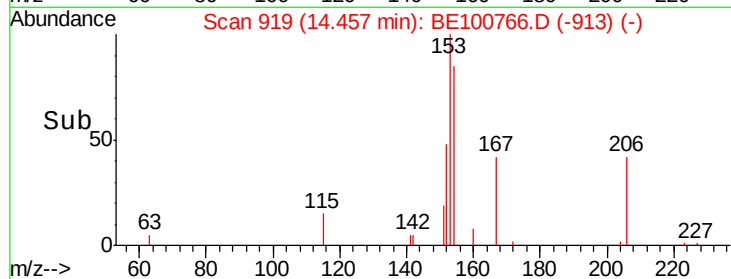
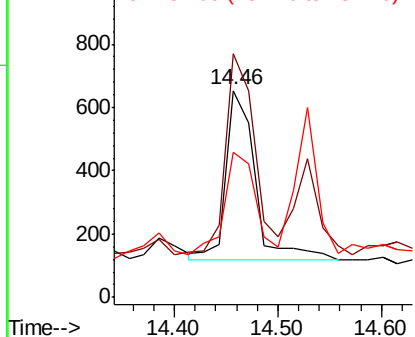
#17  
Acenaphthene  
Concen: 0.022 ng  
RT: 14.46 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Instrument :  
BNA\_E  
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Tot Ion:154 Resp: 1042  
Ion Ratio Lower Upper  
154 100  
153 117.2 91.6 137.4  
152 65.9 47.0 70.6

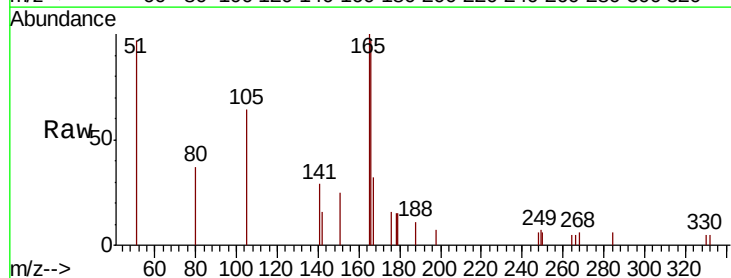


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

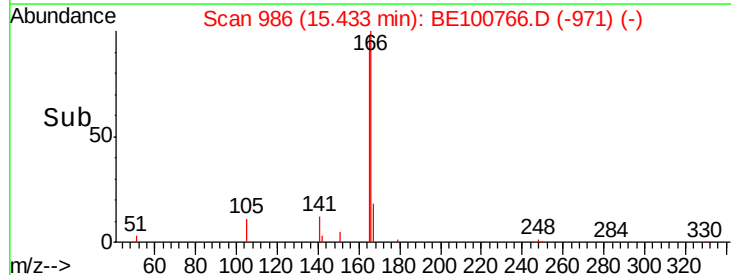
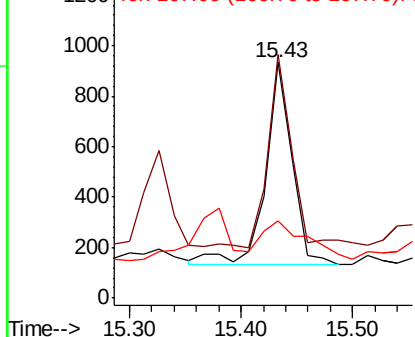


#18  
Fluorene  
Concen: 0.022 ng  
RT: 15.43 min Scan# 986  
Delta R.T. -0.00 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

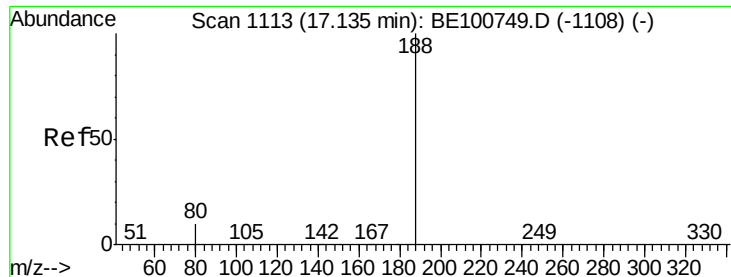
Tgt Ion:166 Resp: 1317  
Ion Ratio Lower Upper  
166 100  
165 84.7 80.2 120.4  
167 32.3 11.0 16.4#



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: 17.13 min Scan# 1113

Delta R.T. -0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

HF-608U

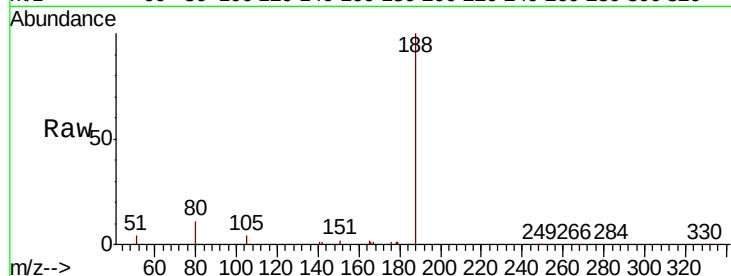
Tot Ion:188 Resp: 39300

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

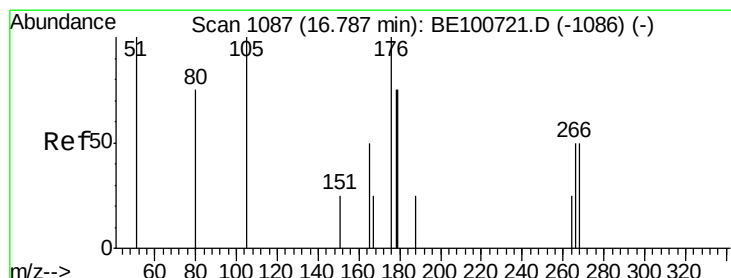
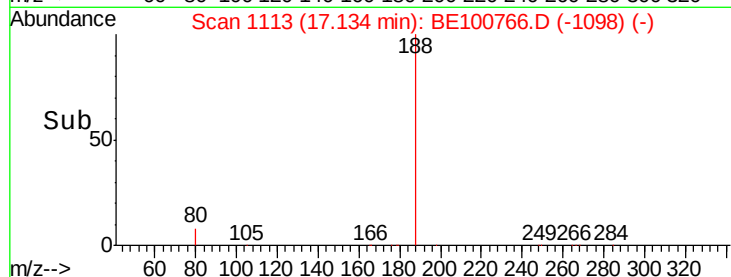
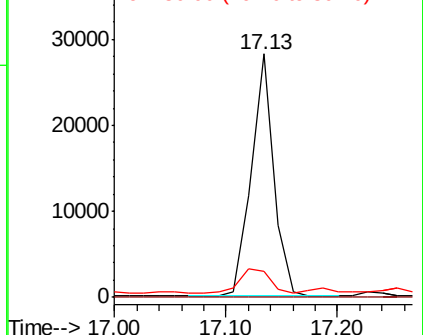
80 10.6 8.2 12.2



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



#22

Pentachlorophenol

Concen: 0.075 ng

RT: 16.79 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

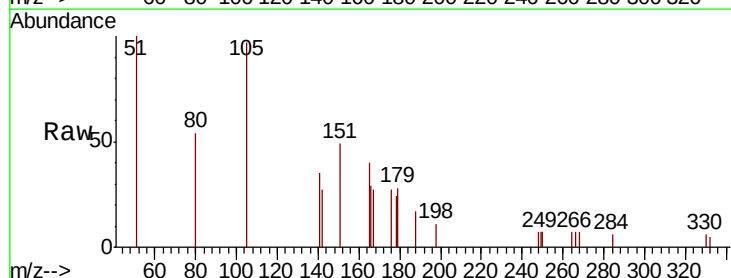
Tgt Ion:266 Resp: 65

Ion Ratio Lower Upper

266 100

264 91.5 54.6 82.0#

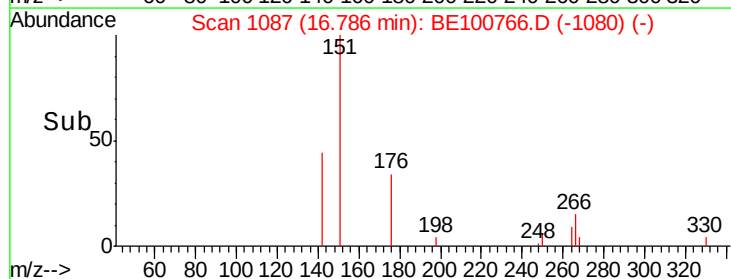
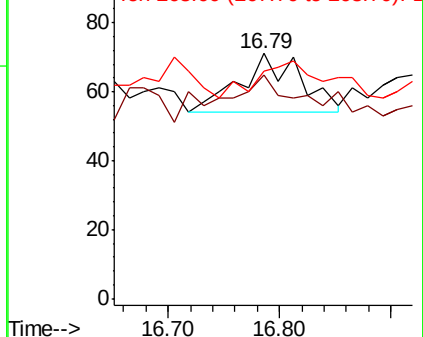
268 93.0 52.6 78.8#

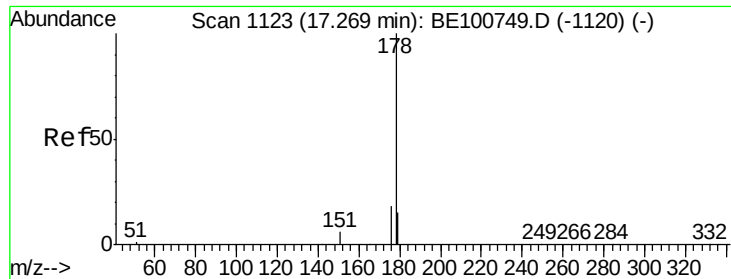


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

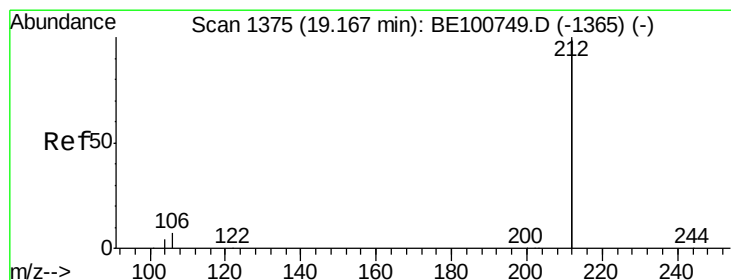
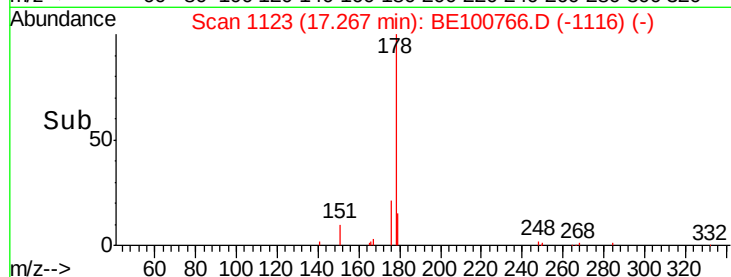
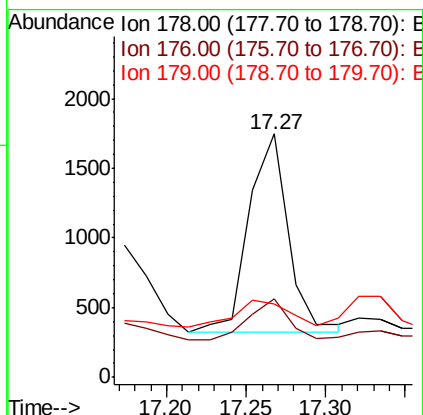
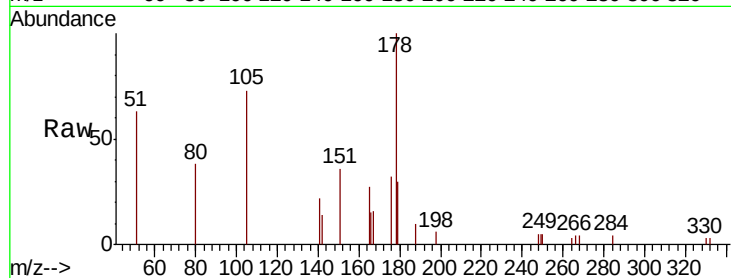




#24  
 Anthracene  
 Concen: 0.024 ng  
 RT: 17.27 min Scan# 1123  
 Delta R.T. -0.00 min  
 Lab File: BE100766.D  
 Acq: 22 Nov 2019 20:12

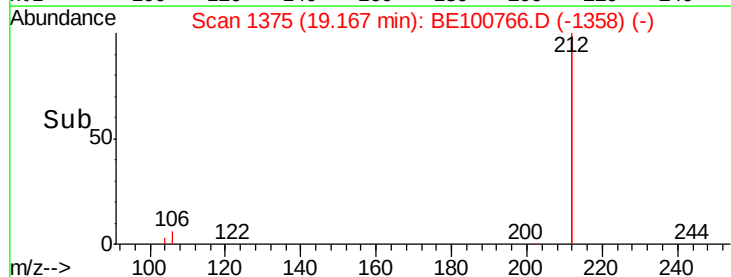
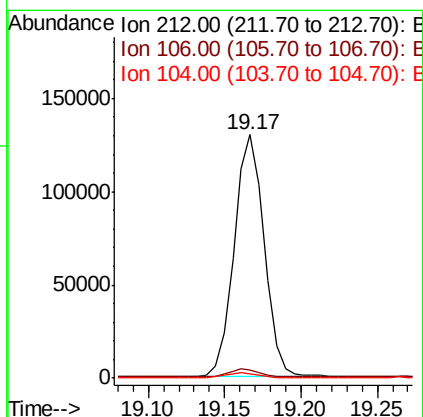
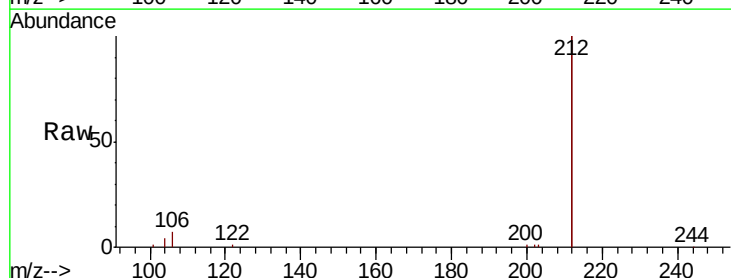
Instrument :  
 BNA\_E  
 ClientSampleId :  
 HF-608U

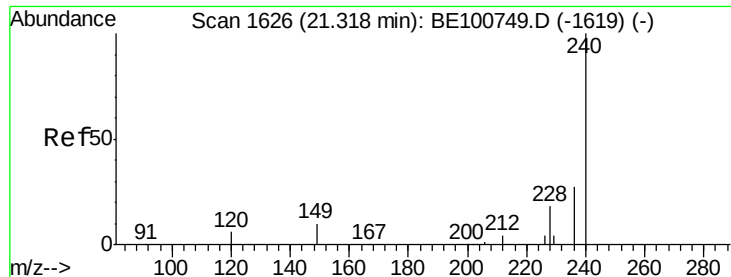
Tot Ion:178 Resp: 2424  
 Ion Ratio Lower Upper  
 178 100  
 176 20.3 14.9 22.3  
 179 17.4 12.2 18.4



#25  
 Fluoranthene-d10  
 Concen: 0.367 ng  
 RT: 19.17 min Scan# 1375  
 Delta R.T. -0.00 min  
 Lab File: BE100766.D  
 Acq: 22 Nov 2019 20:12

Tgt Ion:212 Resp: 176420  
 Ion Ratio Lower Upper  
 212 100  
 106 3.5 2.6 4.0  
 104 2.0 1.5 2.3

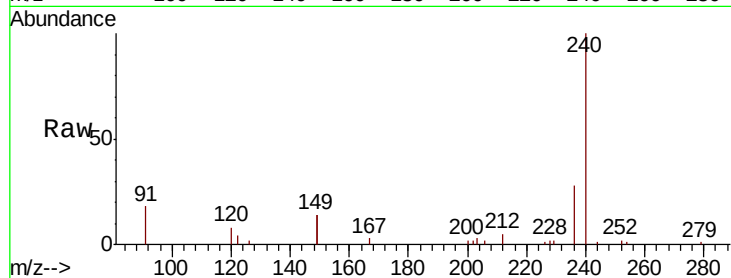




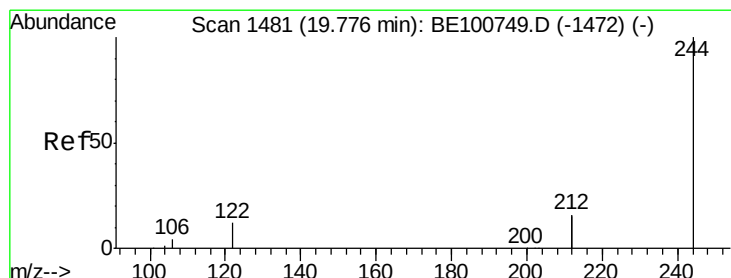
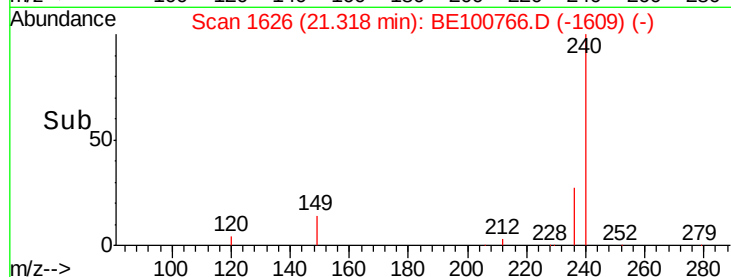
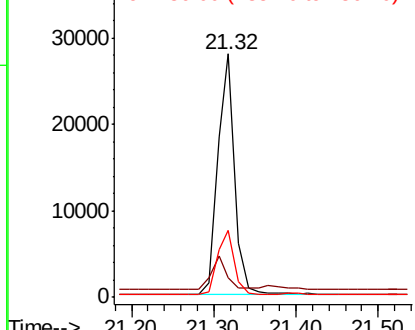
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.32 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Instrument :  
BNA\_E  
ClientSampleId :  
HF-608U

Tot Ion:240 Resp: 40002  
Ion Ratio Lower Upper  
240 100  
120 8.1 5.8 8.8  
236 27.7 21.9 32.9

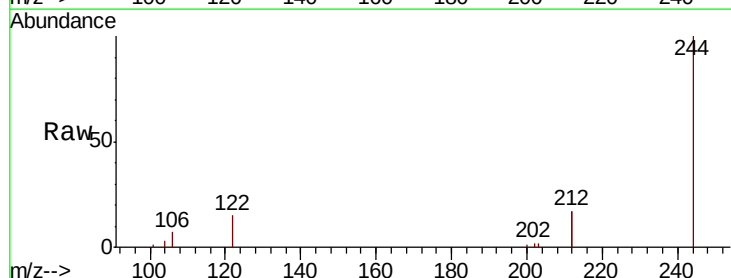


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

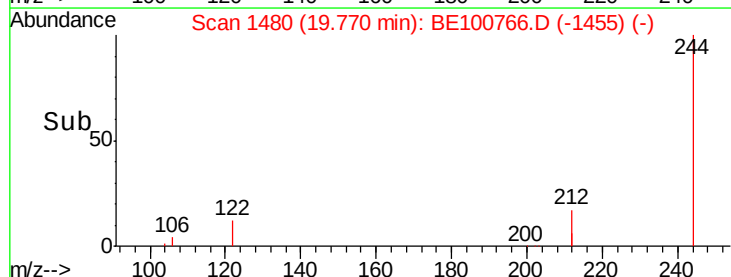
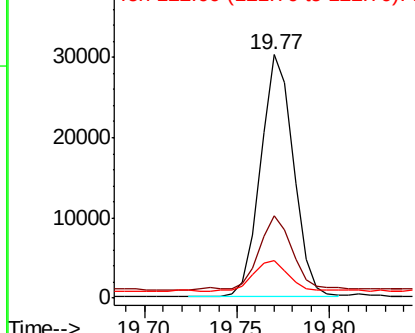


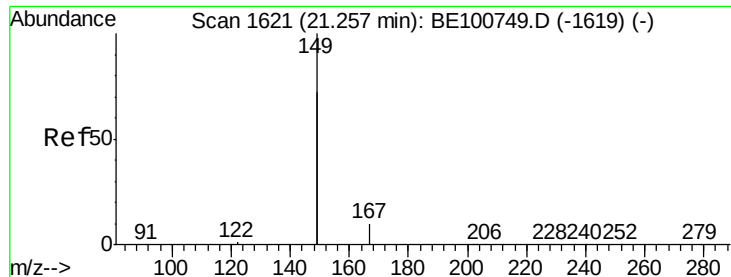
#29  
Terphenyl-d14  
Concen: 0.401 ng  
RT: 19.77 min Scan# 1480  
Delta R.T. -0.01 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Tgt Ion:244 Resp: 36907  
Ion Ratio Lower Upper  
244 100  
212 34.0 25.2 37.8  
122 15.3 9.8 14.6#



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: 0.059 ng

RT: 21.26 min Scan# 1621

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

HF-608U

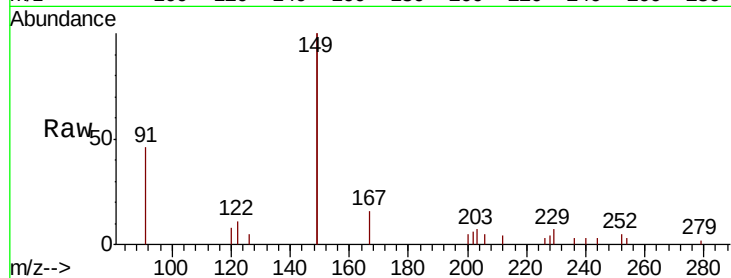
Tot Ion:149 Resp: 19459

Ion Ratio Lower Upper

149 100

167 7.6 5.5 8.3

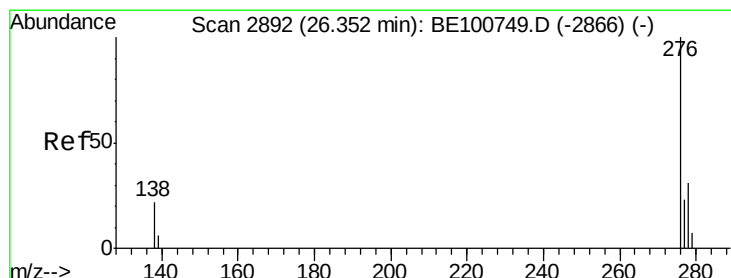
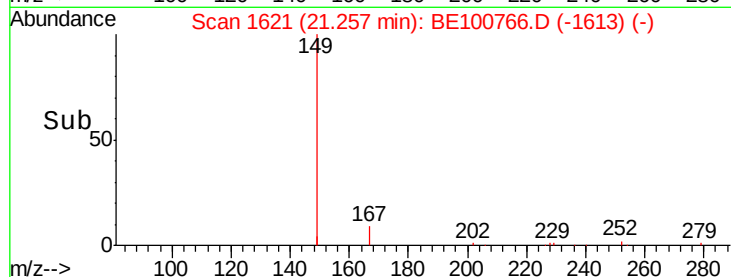
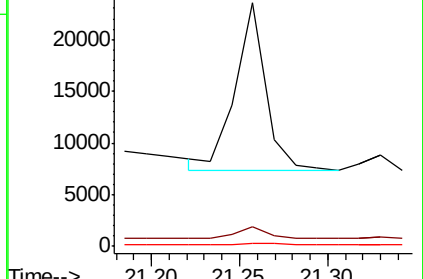
279 1.1 0.7 1.1#



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: 0.039 ng

RT: 26.35 min Scan# 2892

Delta R.T. 0.00 min

Lab File: BE100766.D

Acq: 22 Nov 2019 20:12

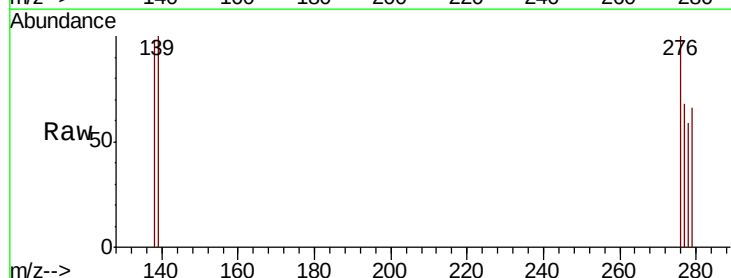
Tgt Ion:276 Resp: 296

Ion Ratio Lower Upper

276 100

138 16.6 19.8 29.6#

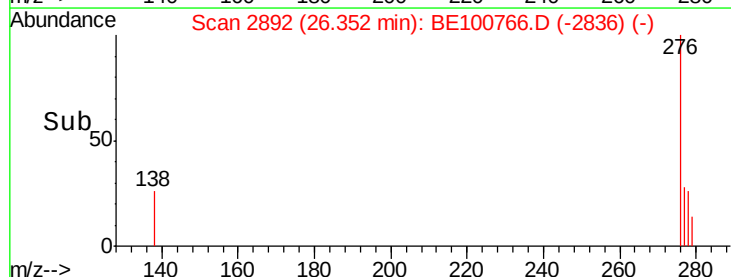
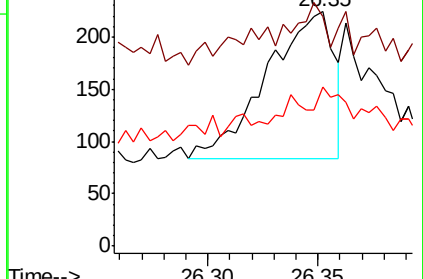
277 7.4 19.7 29.5#

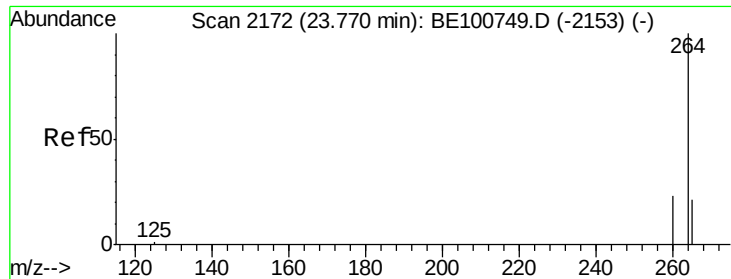


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

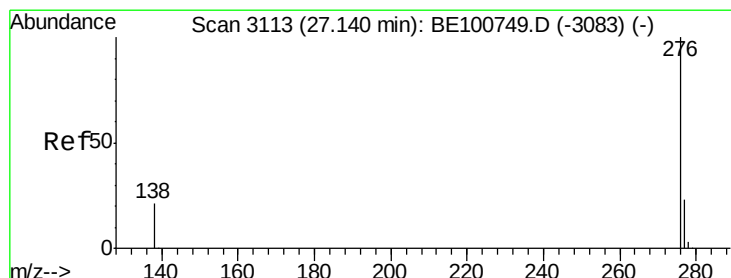
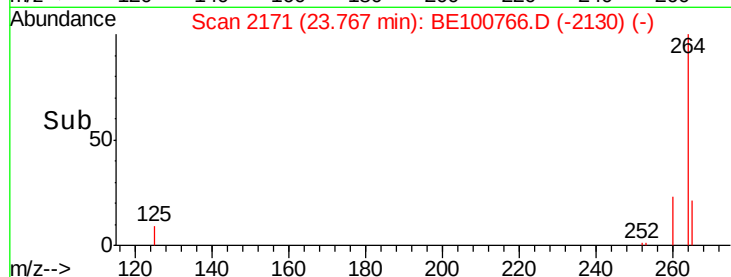
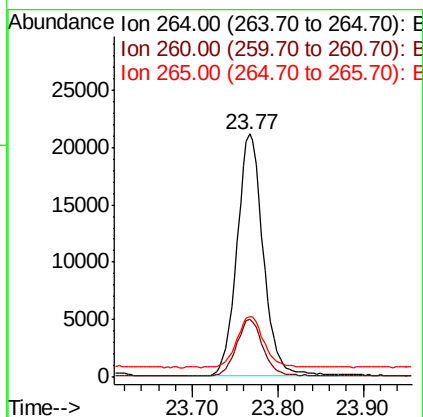
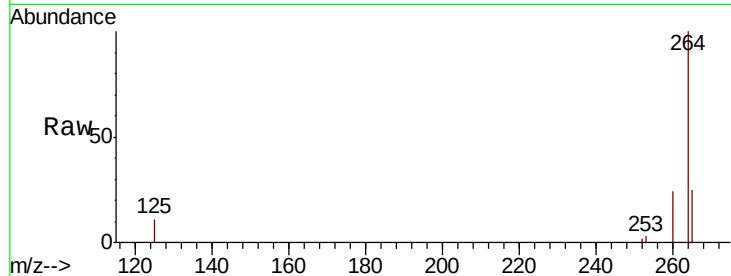




#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.77 min Scan# 2171  
Delta R.T. -0.00 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Instrument :  
BNA\_E  
ClientSampled :  
HF-608U

Tot Ion:264 Resp: 44833  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.7 28.1  
265 24.9 22.4 33.6



#39  
Benzo(g,h,i)perylene  
Concen: 0.025 ng  
RT: 27.13 min Scan# 3111  
Delta R.T. -0.01 min  
Lab File: BE100766.D  
Acq: 22 Nov 2019 20:12

Tgt Ion:276 Resp: 400  
Ion Ratio Lower Upper  
276 100  
277 59.7 18.9 28.3#  
138 88.1 17.8 26.8#

