

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101519\
 Data File : BE100647.D
 Acq On : 15 Oct 2019 12:53
 Operator : JU
 Sample : K4994-12
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 15 16:29:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 10 14:01:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	4280	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	19833	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	12863	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	25751	0.40	ng	0.00
27) Chrysene-d12	21.37	240	27101	0.40	ng	0.00
34) Perylene-d12	23.85	264	31182	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	3723	0.28	ng	0.01
5) Phenol-d6	7.02	99	5714	0.31	ng	0.01
8) Nitrobenzene-d5	8.99	82	5261	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	12.24	152	8581	0.27	ng	0.01
14) 2,4,6-Tribromophenol	15.96	330	1249	0.37	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	10771	0.23	ng	0.00
25) Fluoranthene-d10	19.23	212	63494	0.19	ng	0.00
29) Terphenyl-d14	19.83	244	13137	0.22	ng	0.00

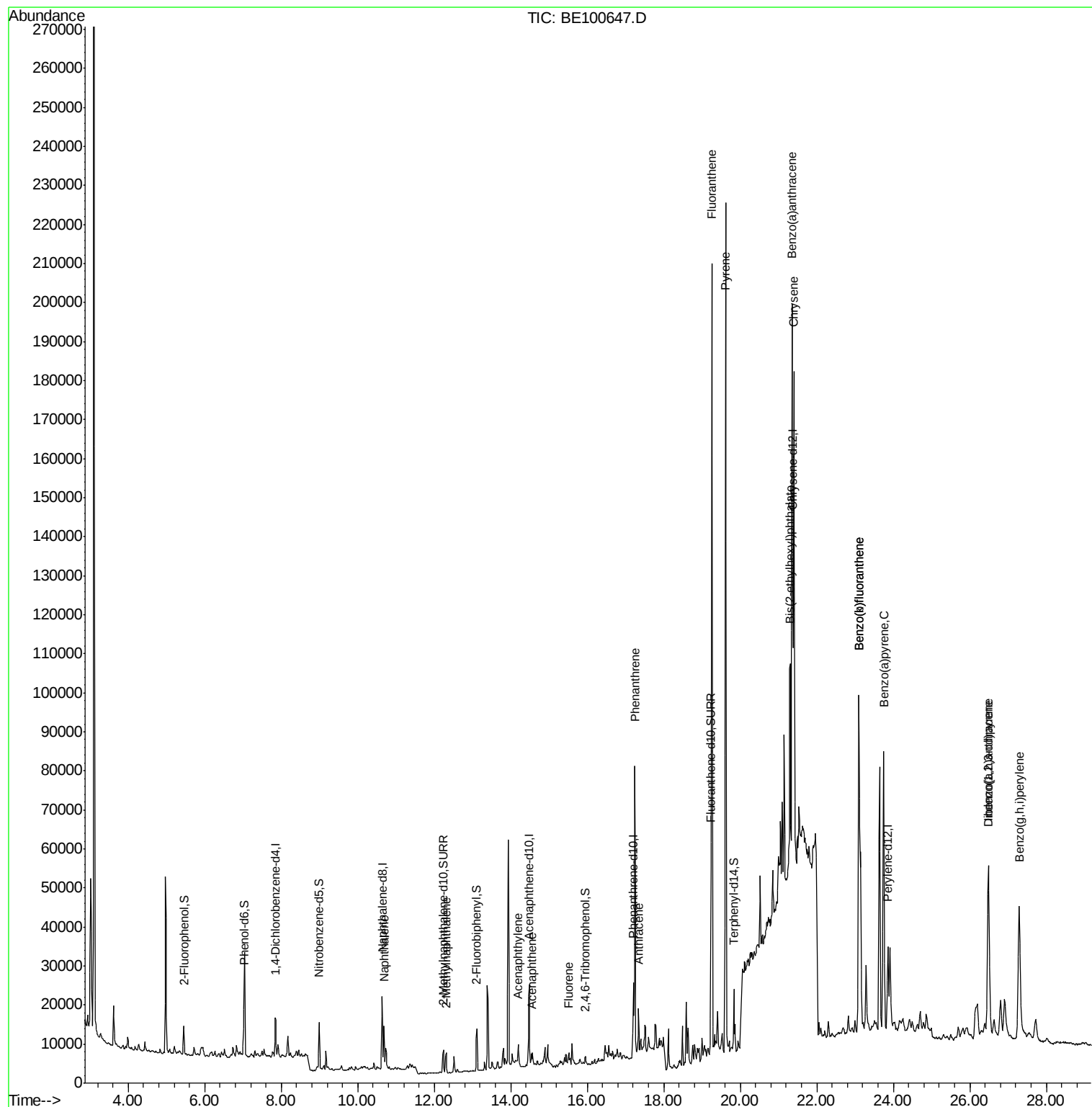
Target Compounds				Qvalue		
9) Naphthalene	10.69	128	19533	0.094	ng	# 98
12) 2-Methylnaphthalene	12.31	142	4120	0.116	ng	95
16) Acenaphthylene	14.20	152	16402	0.296	ng	# 94
17) Acenaphthene	14.54	154	1791	0.050	ng	89
18) Fluorene	15.51	166	3355	0.071	ng	# 62
23) Phenanthrene	17.24	178	79714	1.125	ng	99
24) Anthracene	17.34	178	13157	0.200	ng	97
26) Fluoranthene	19.26	202	184931	2.000	ng	98
28) Pyrene	19.62	202	204695	2.703	ng	# 95
30) Benzo(a)anthracene	21.36	228	131338	1.486	ng	# 88
31) Chrysene	21.40	228	127254	1.440	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.29	149	75446	0.408	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.48	276	86007	0.792	ng	# 95
35) Benzo(b)fluoranthene	23.10	252	175331	1.928	ng	# 92
36) Benzo(k)fluoranthene	23.10	252	175331	1.875	ng	# 92
37) Benzo(a)pyrene	23.74	252	120920	1.429	ng	# 92
38) Dibenzo(a,h)anthracene	26.49	278	22845	0.261	ng	# 51
39) Benzo(a,h,i)perylene	27.29	276	95870	1.090	ng	# 90

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

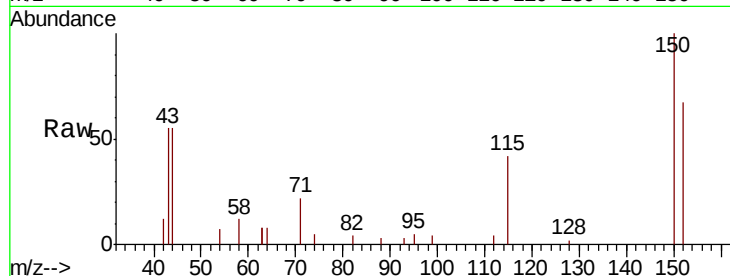
Tot Ion:152 Resp: 4280

Ion Ratio Lower Upper

152 100

150 149.4 120.7 181.1

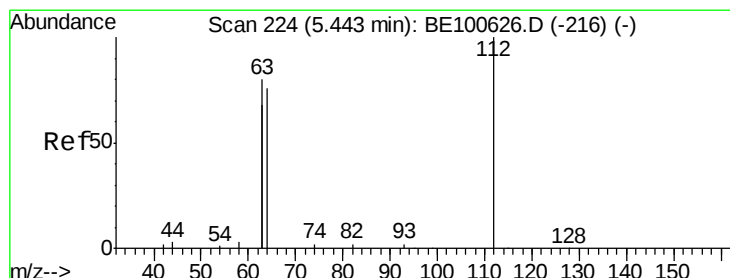
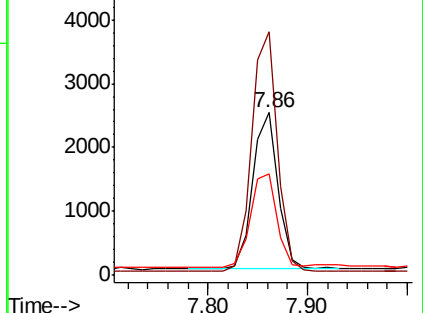
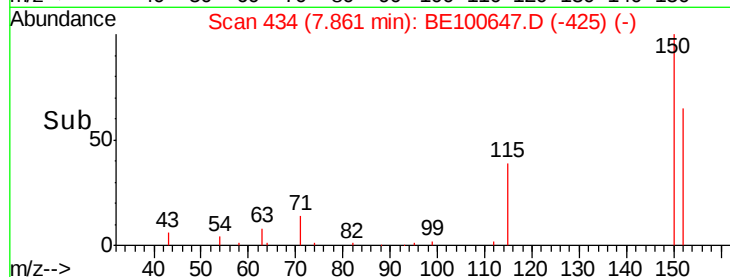
115 62.6 48.0 72.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.282 ng

RT: 5.45 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

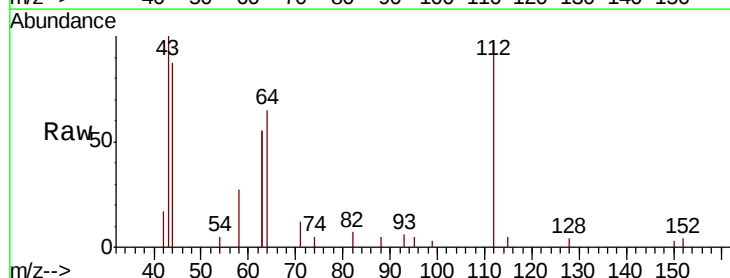
Tgt Ion:112 Resp: 3723

Ion Ratio Lower Upper

112 100

64 74.9 58.9 88.3

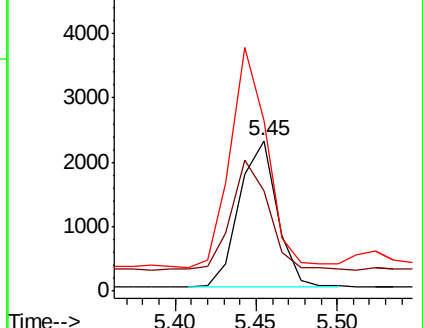
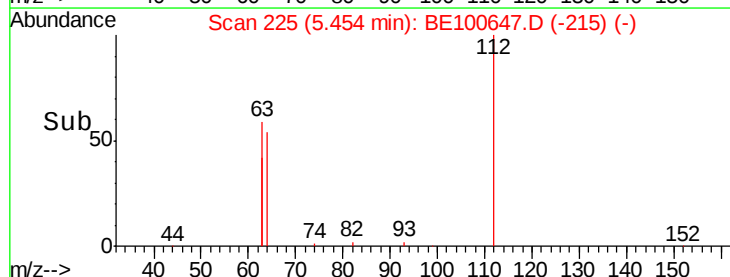
63 141.7 118.3 177.5

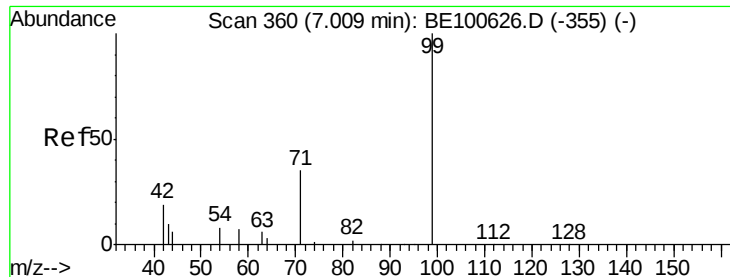


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.307 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.01 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

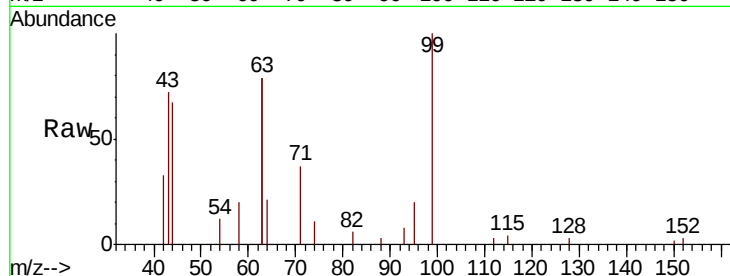
Tot Ion: 99 Resp: 5714

Ion Ratio Lower Upper

99 100

42 44.9 19.4 29.2#

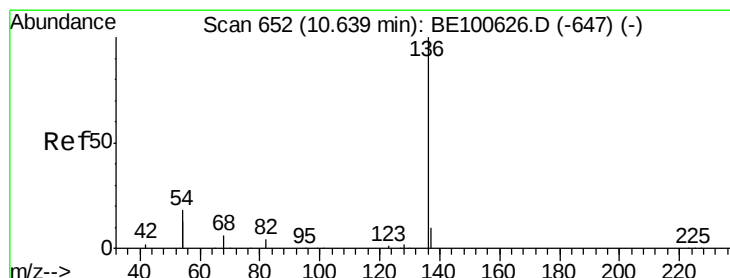
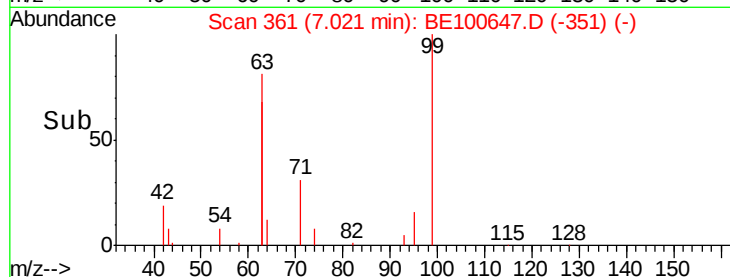
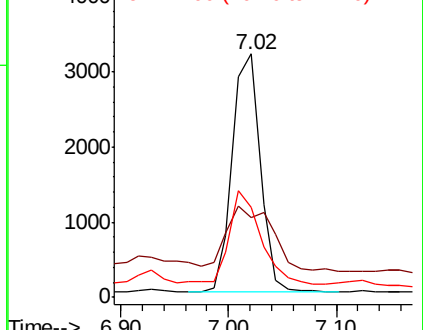
71 43.0 26.9 40.3#



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: 10.64 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Tgt Ion: 136 Resp: 19833

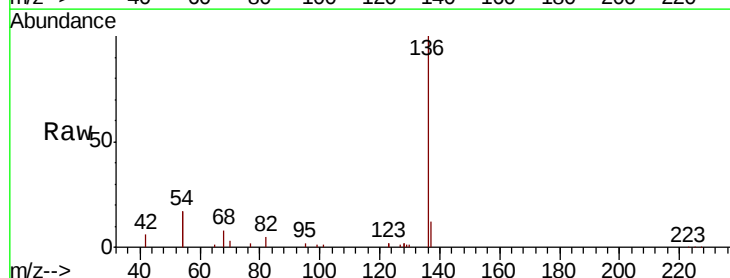
Ion Ratio Lower Upper

136 100

137 11.5 8.6 13.0

54 34.5 28.7 43.1

68 7.7 5.9 8.9

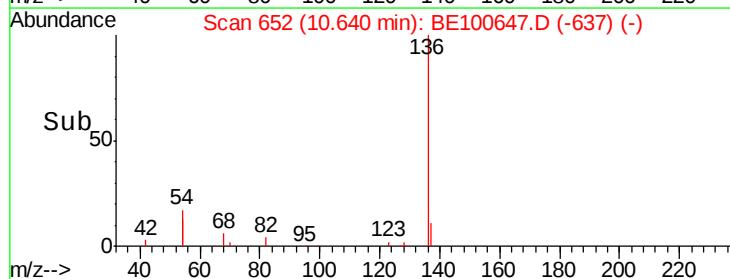
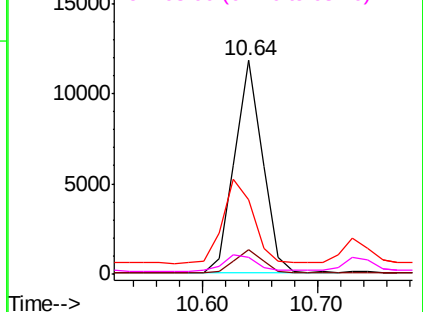


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.428 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

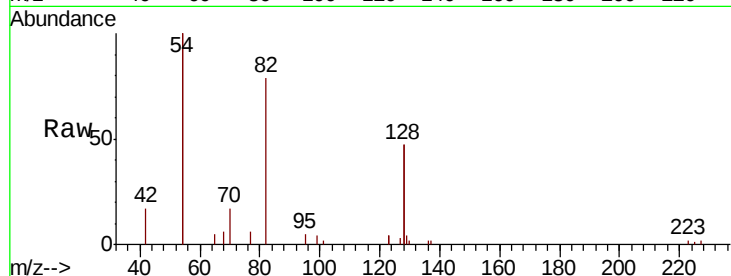
Tot Ion: 82 Resp: 5261

Ion Ratio Lower Upper

82 100

128 119.0 90.7 136.1

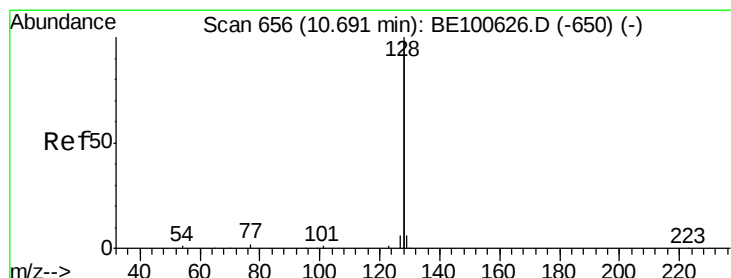
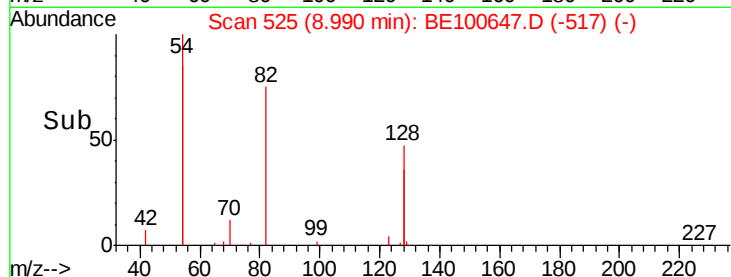
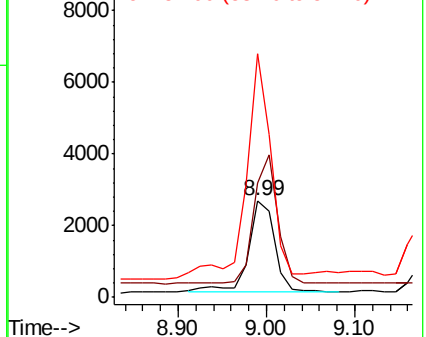
54 252.3 210.9 316.3



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.094 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

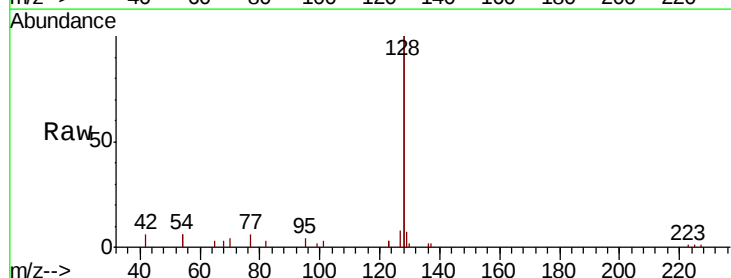
Tgt Ion: 128 Resp: 19533

Ion Ratio Lower Upper

128 100

129 3.6 2.4 3.6#

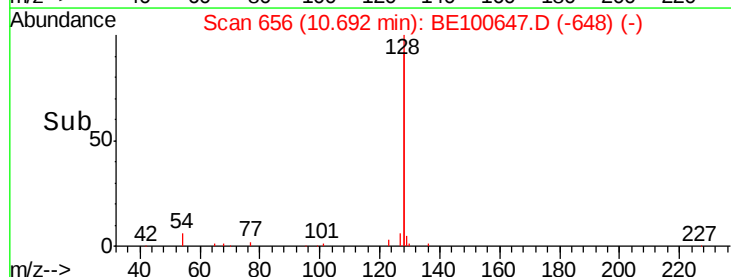
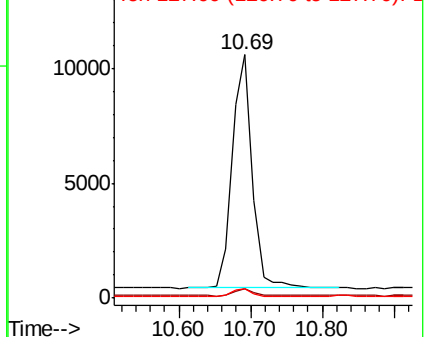
127 3.8 2.6 3.8

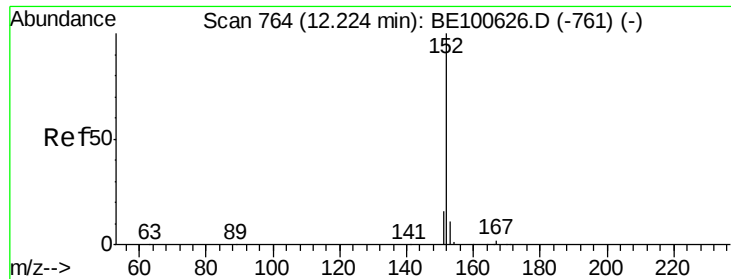


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.274 ng

RT: 12.24 min Scan# 765

Delta R.T. 0.01 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

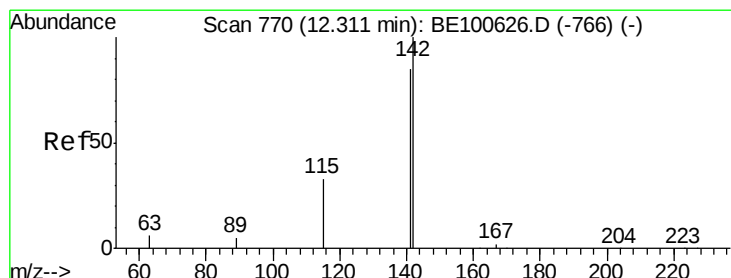
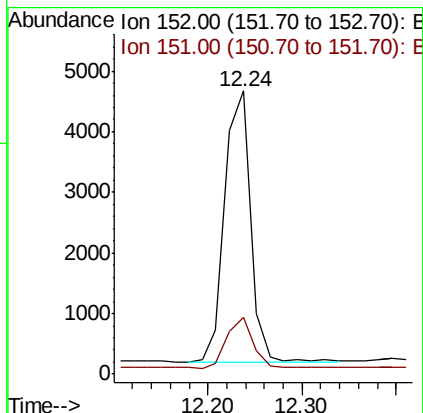
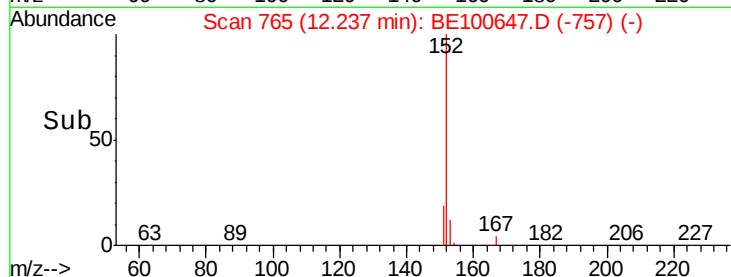
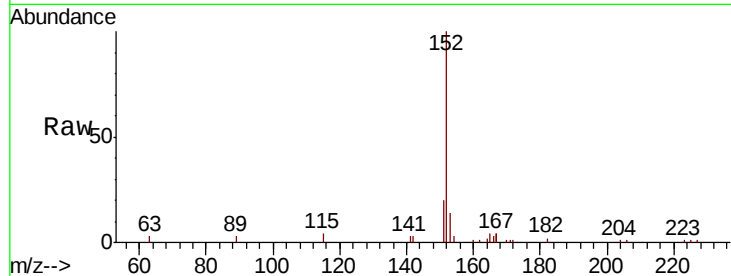
ClientSampleId :

Tot Ion:152 Resp: 8581

Ion Ratio Lower Upper

152 100

151 18.2 15.2 22.8



#12

2-Methylnaphthalene

Concen: 0.116 ng

RT: 12.31 min Scan# 770

Delta R.T. -0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

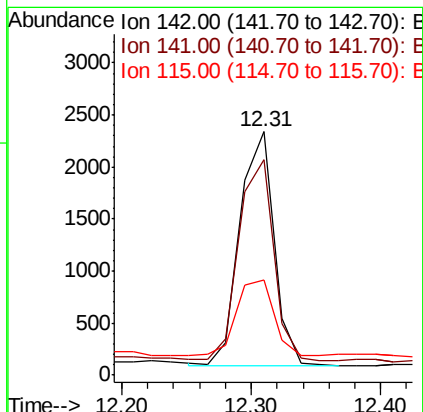
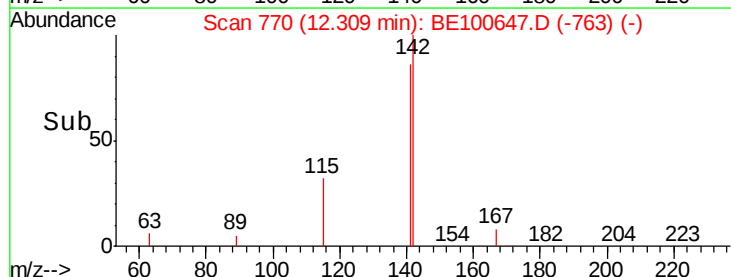
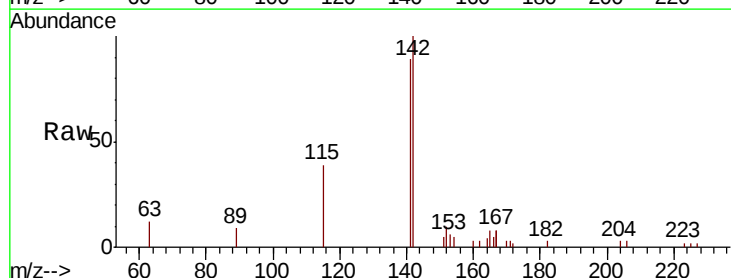
Tgt Ion:142 Resp: 4120

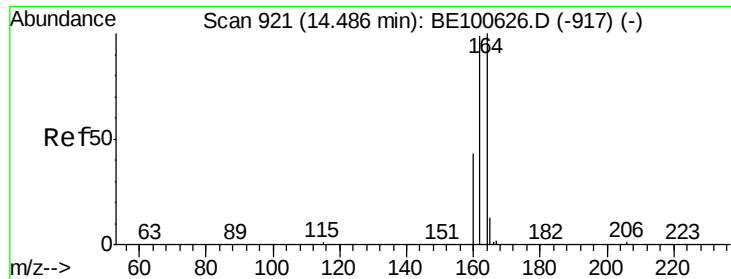
Ion Ratio Lower Upper

142 100

141 88.5 68.3 102.5

115 39.2 27.5 41.3

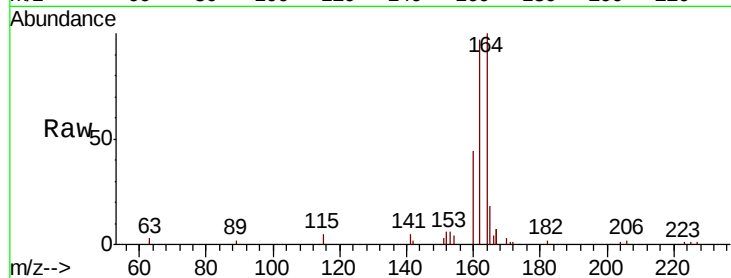




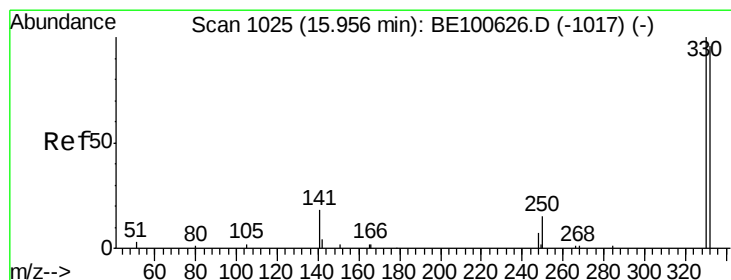
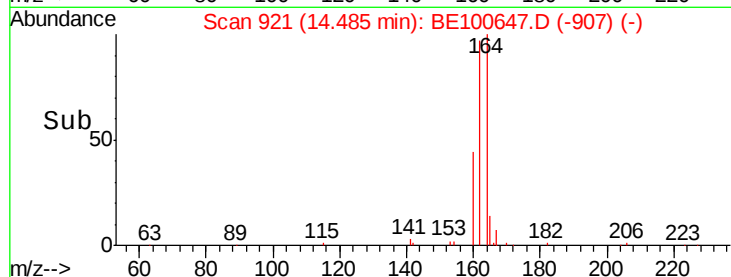
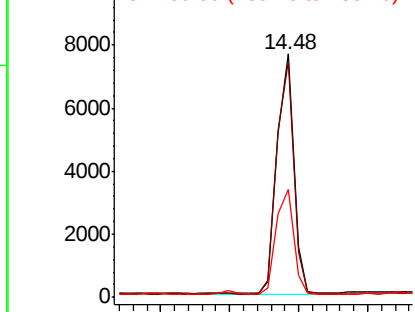
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.48 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 12863
Ion Ratio Lower Upper
164 100
162 97.2 79.1 118.7
160 44.5 34.7 52.1

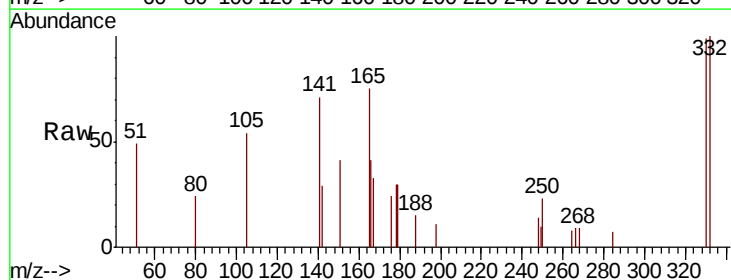


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

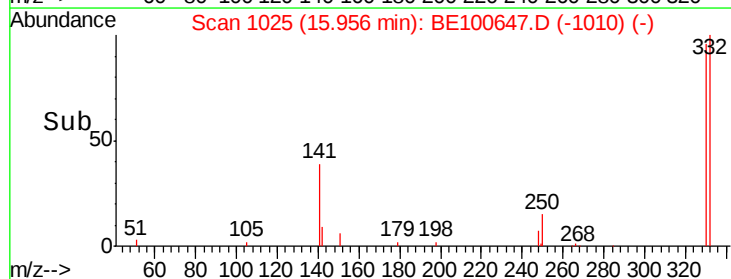
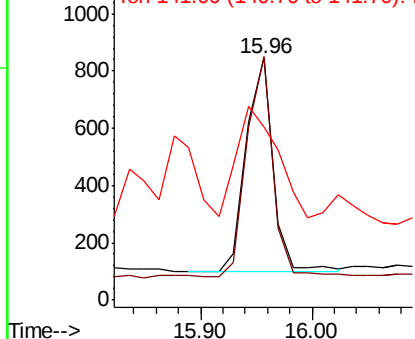


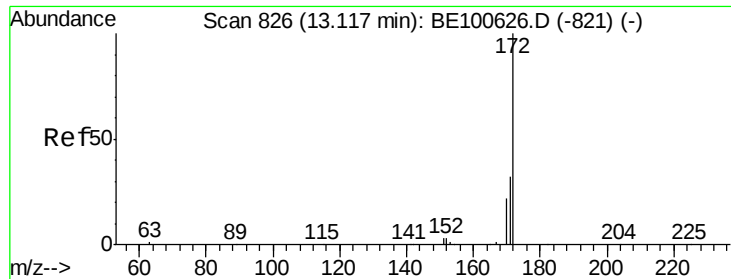
#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.96 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:330 Resp: 1249
Ion Ratio Lower Upper
330 100
332 101.1 75.2 112.8
141 81.8 37.5 56.3#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

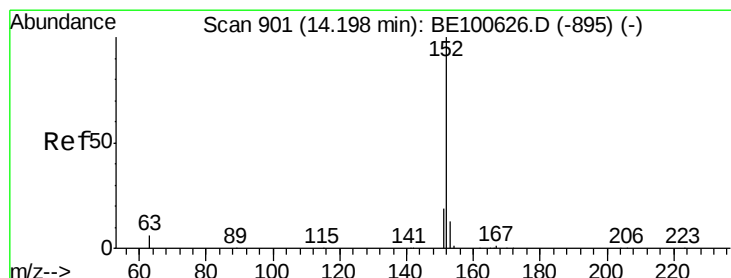
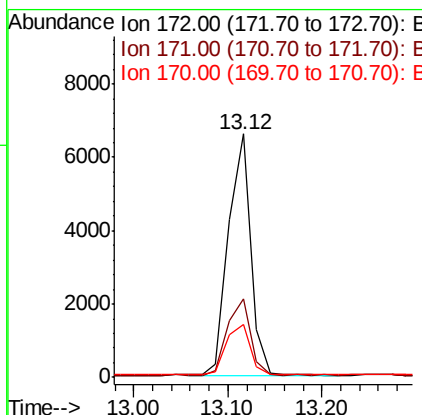
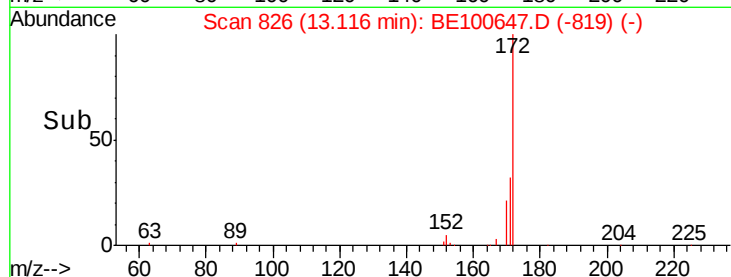
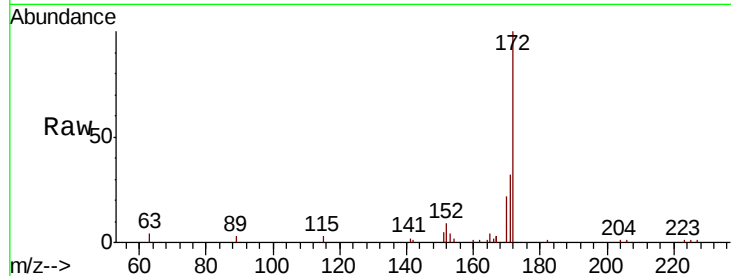




#15
2-Fluorobiphenyl
Concen: 0.230 ng
RT: 13.12 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

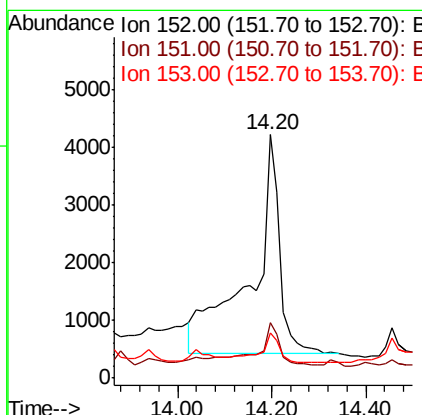
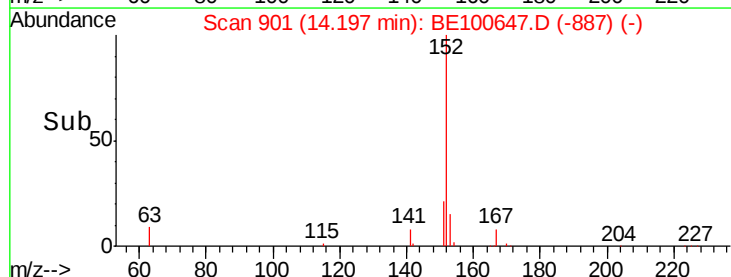
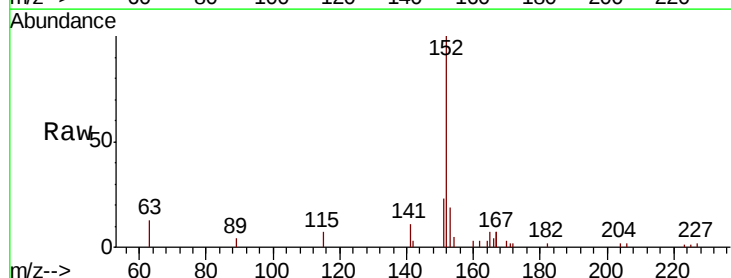
Instrument :
BNA_E
ClientSampleId :

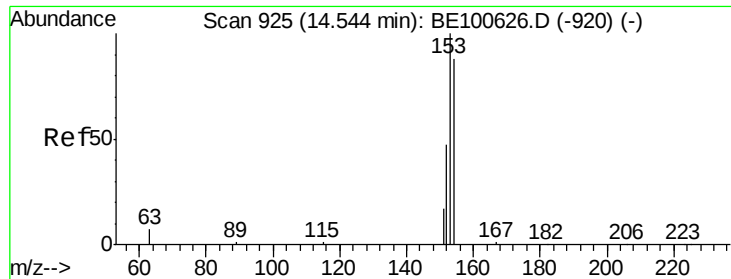
Tot Ion:172 Resp: 10771
Ion Ratio Lower Upper
172 100
171 32.2 26.2 39.4
170 21.7 17.5 26.3



#16
Acenaphthylene
Concen: 0.296 ng
RT: 14.20 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:152 Resp: 16402
Ion Ratio Lower Upper
152 100
151 17.5 15.6 23.4
153 9.4 10.5 15.7#

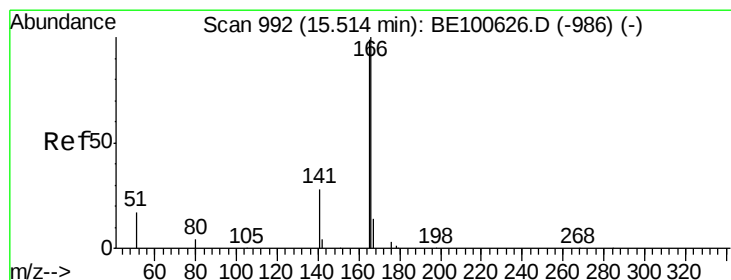
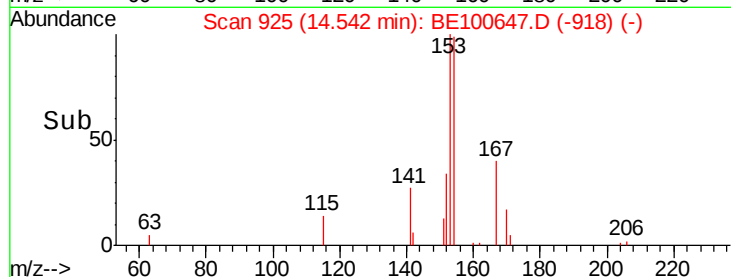
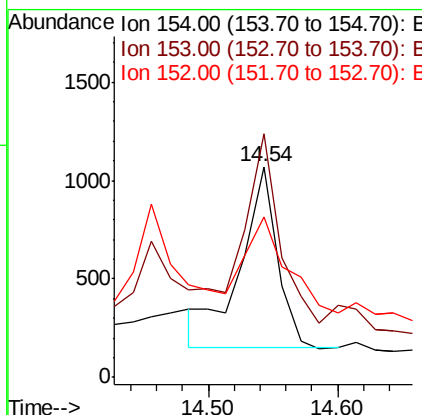
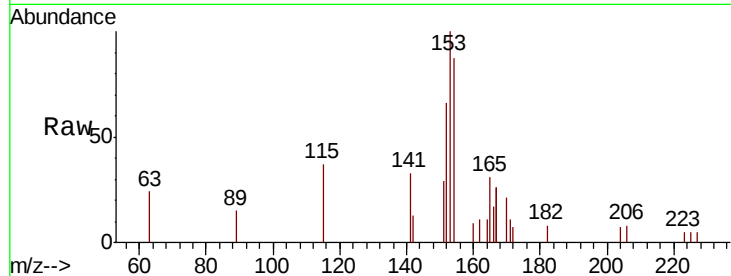




#17
Acenaphthene
Concen: 0.050 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

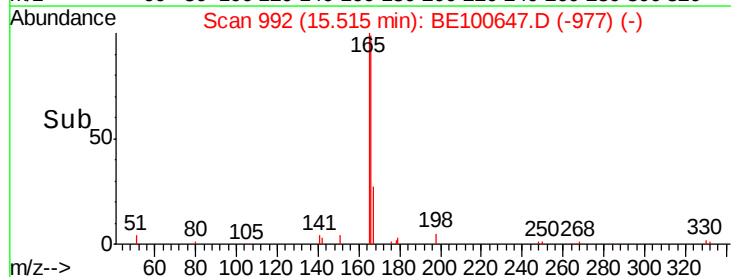
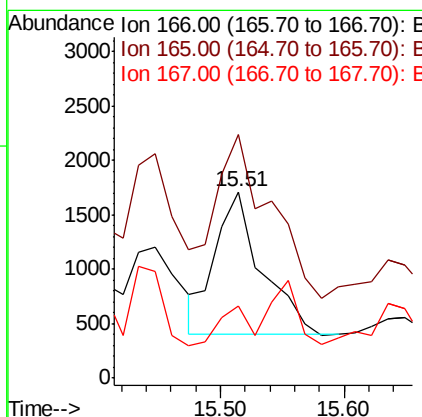
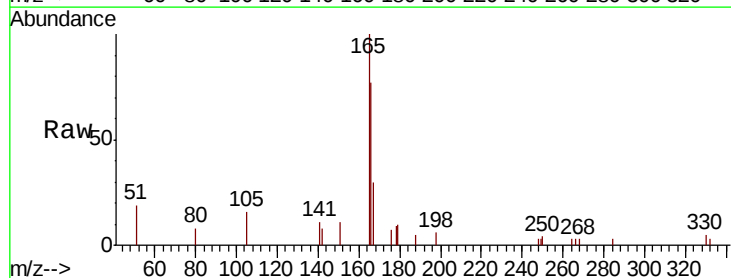
Instrument :
BNA_E
ClientSampleId :

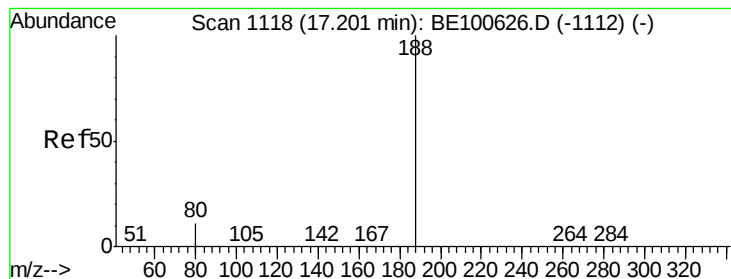
Tot Ion:154 Resp: 1791
Ion Ratio Lower Upper
154 100
153 129.0 91.4 137.2
152 59.9 44.0 66.0



#18
Fluorene
Concen: 0.071 ng
RT: 15.51 min Scan# 992
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:166 Resp: 3355
Ion Ratio Lower Upper
166 100
165 136.9 78.9 118.3#
167 0.0 10.9 16.3#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

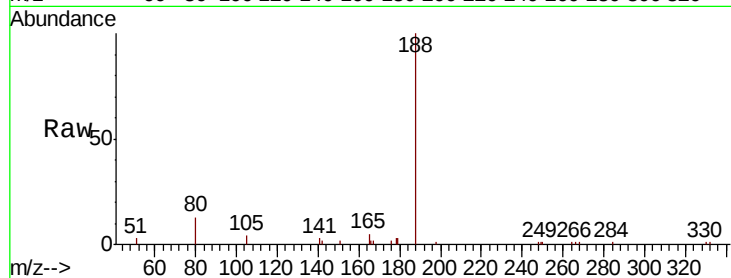
Tot Ion:188 Resp: 25751

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

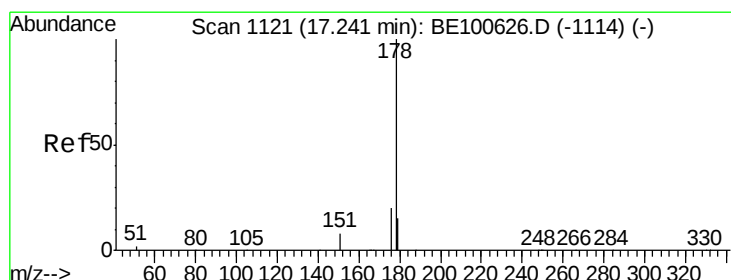
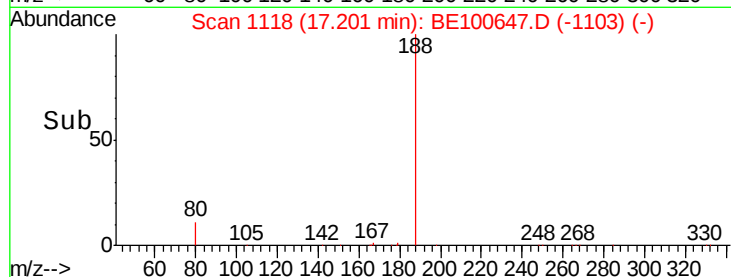
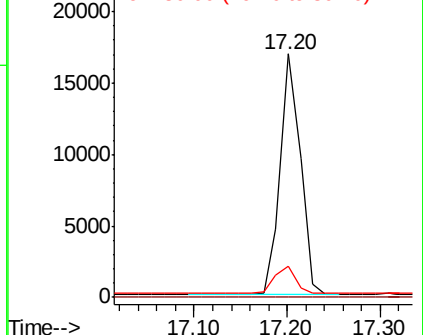
80 12.7 9.4 14.2



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



#23

Phenanthrene

Concen: 1.125 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

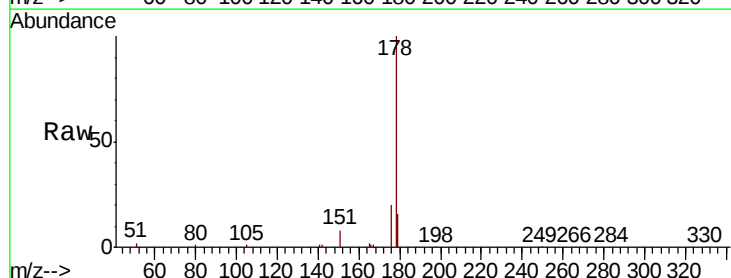
Tgt Ion:178 Resp: 79714

Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

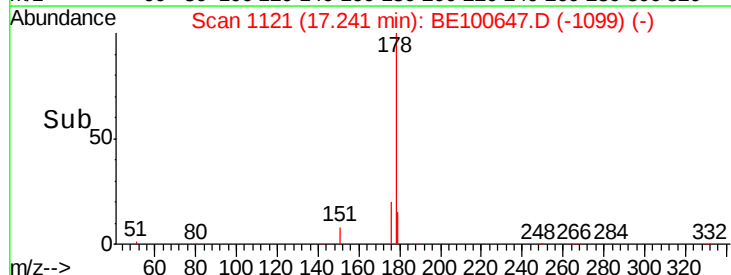
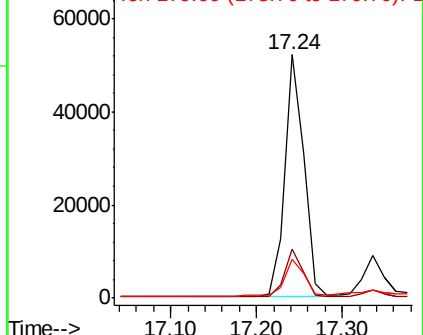
179 16.3 12.4 18.6

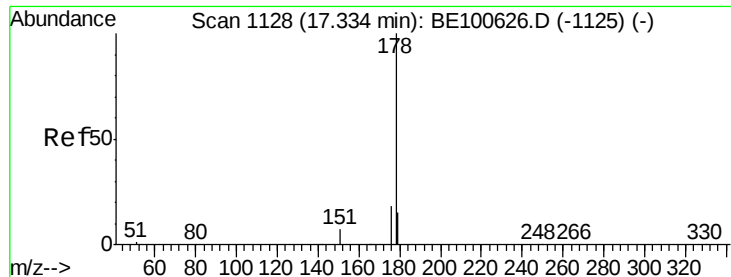


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.200 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

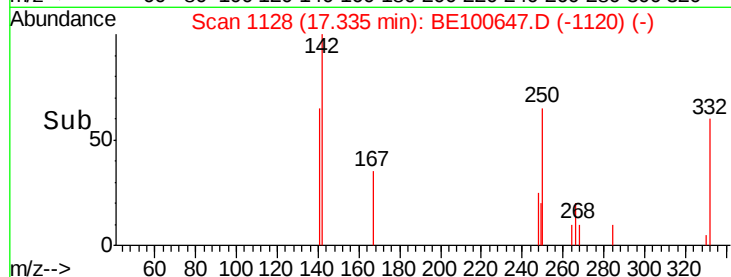
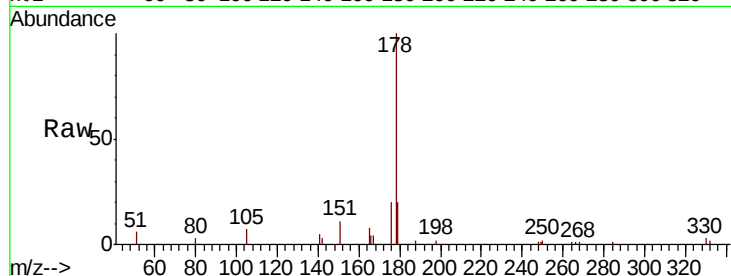
Tot Ion:178 Resp: 13157

Ion Ratio Lower Upper

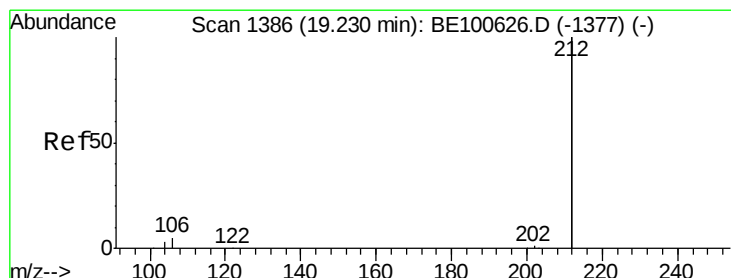
178 100

176 18.3 14.5 21.7

179 17.7 12.4 18.6



Time-->



#25

Fluoranthene-d10

Concen: 0.191 ng

RT: 19.23 min Scan# 1386

Delta R.T. 0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

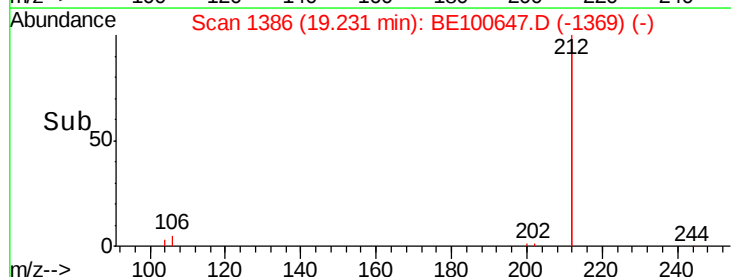
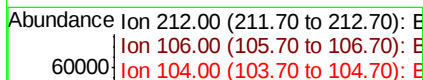
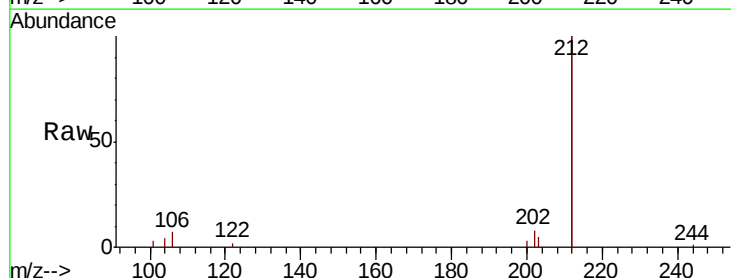
Tgt Ion:212 Resp: 63494

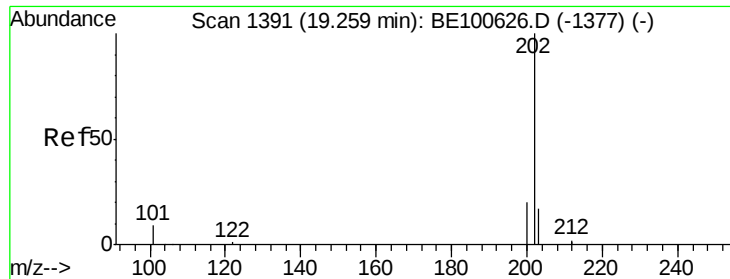
Ion Ratio Lower Upper

212 100

106 3.1 2.2 3.4

104 2.0 1.3 1.9#

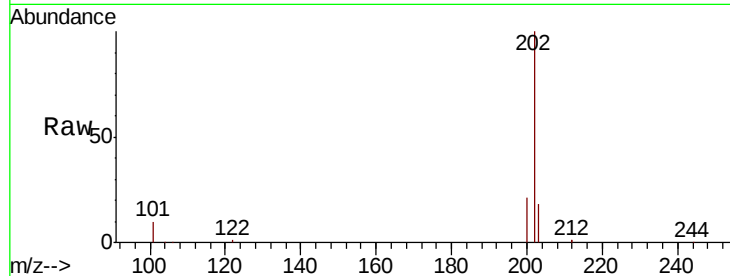




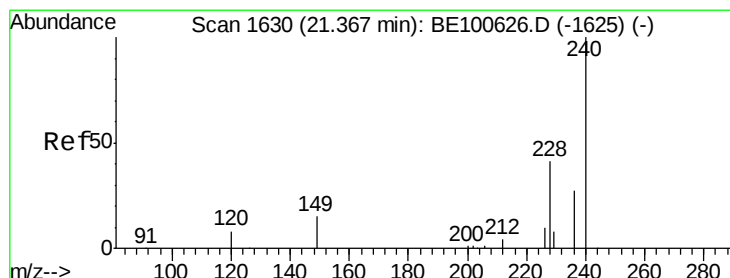
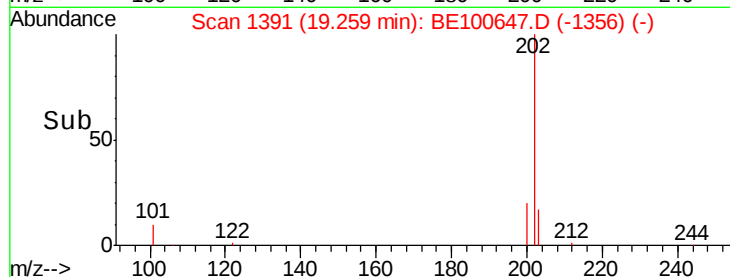
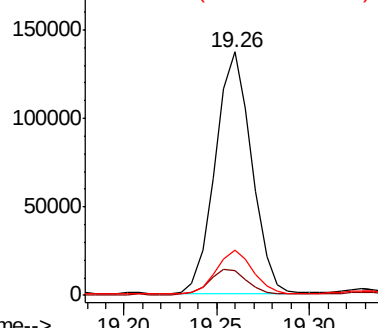
#26
Fluoranthene
Concen: 2.000 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 184931
Ion Ratio Lower Upper
202 100
101 10.9 8.4 12.6
203 18.0 13.8 20.6

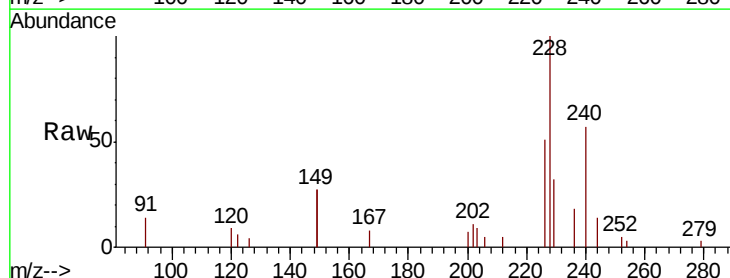


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

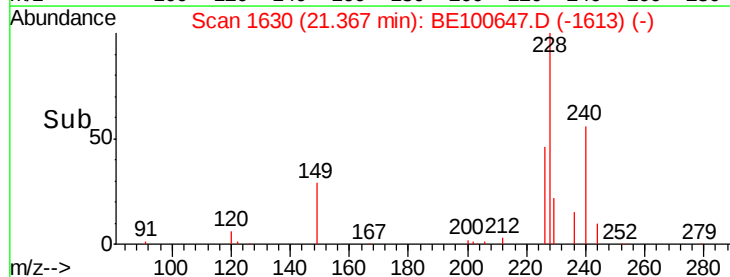
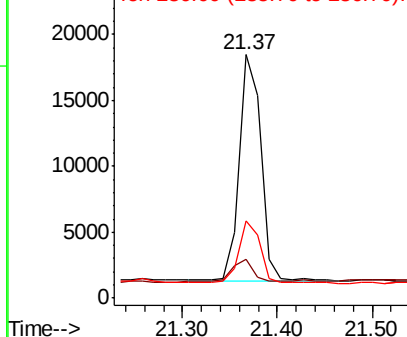


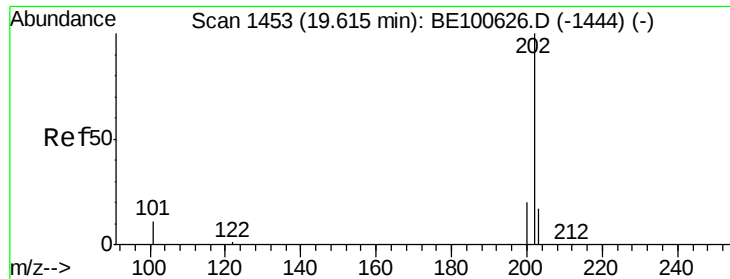
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:240 Resp: 27101
Ion Ratio Lower Upper
240 100
120 16.0 7.4 11.0#
236 31.7 21.7 32.5



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

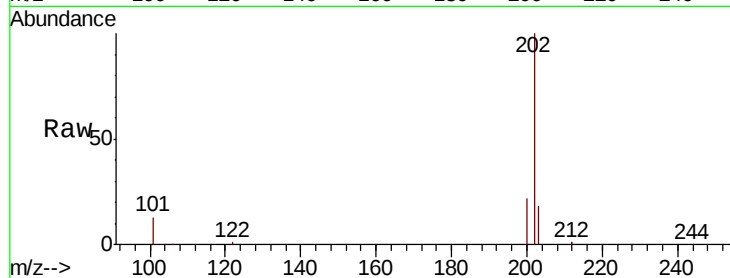




#28
Pvrene
Concen: 2.703 ng
RT: 19.62 min Scan# 1453
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.6	24.8
203	21.5	13.9	20.9

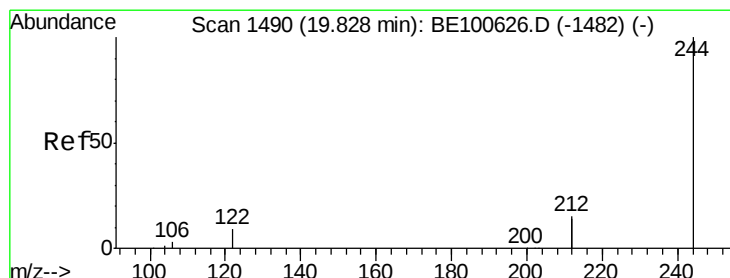
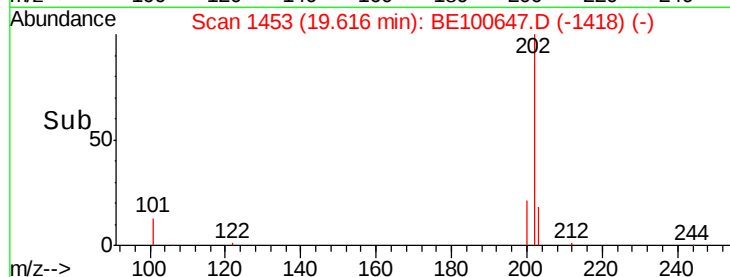
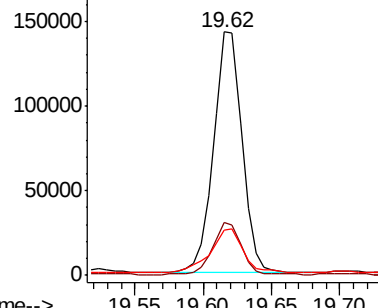


Abundance

Ion 202.00 (201.70 to 202.70): E

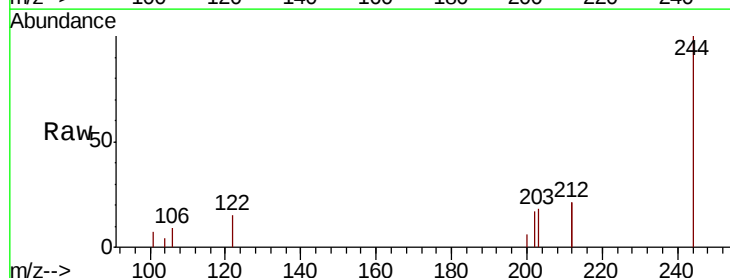
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29
Terphenyl-d14
Concen: 0.222 ng
RT: 19.83 min Scan# 1490
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	41.8	23.9	35.9
122	14.7	7.7	11.5

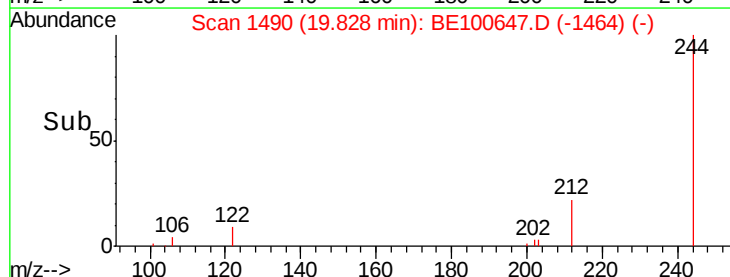
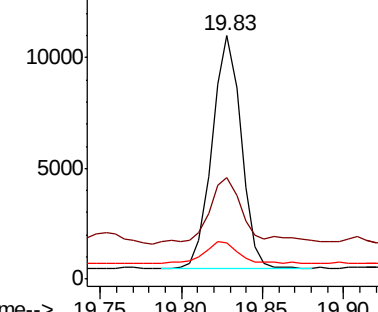


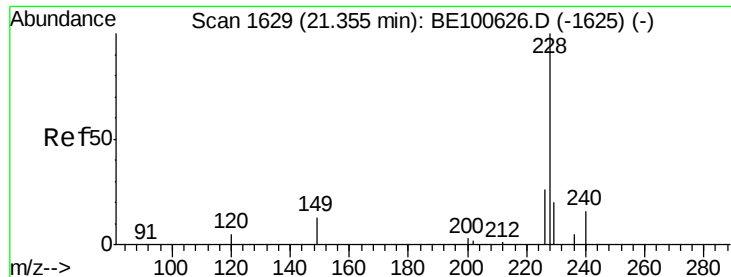
Abundance

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

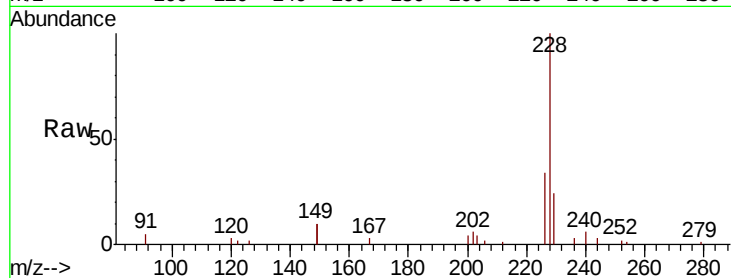




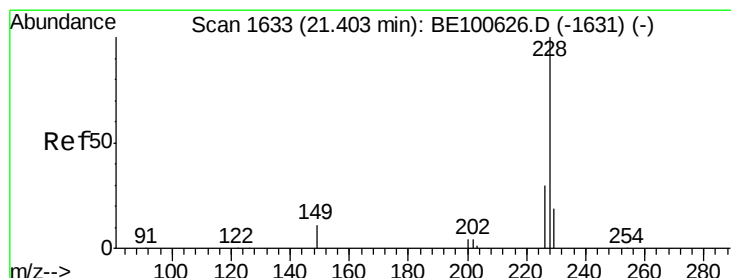
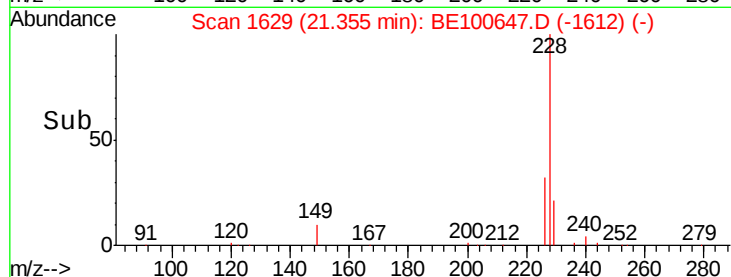
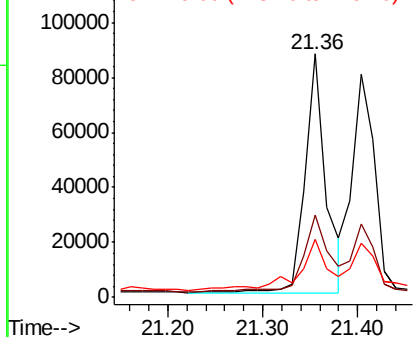
#30
Benzo(a)anthracene
Concen: 1.486 ng
RT: 21.36 min Scan# 1629
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Instrument :
BNA_E
ClientSampleId :

Tot Ion:228 Resp: 131338
Ion Ratio Lower Upper
228 100
226 34.1 21.0 31.6#
229 23.8 15.8 23.8

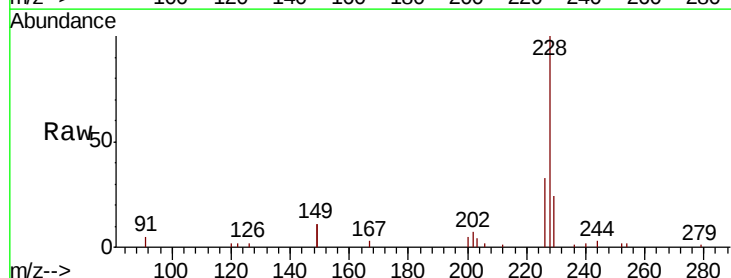


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

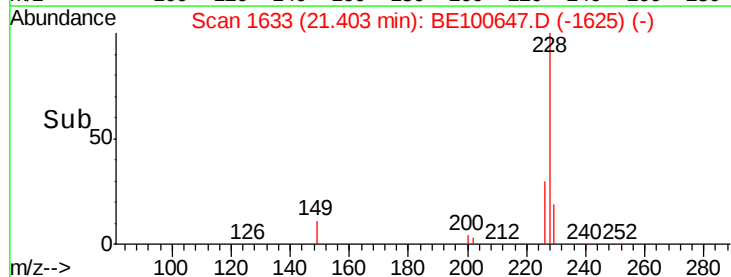
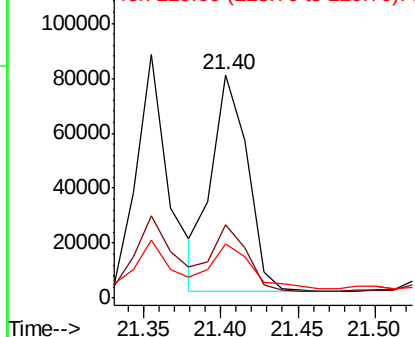


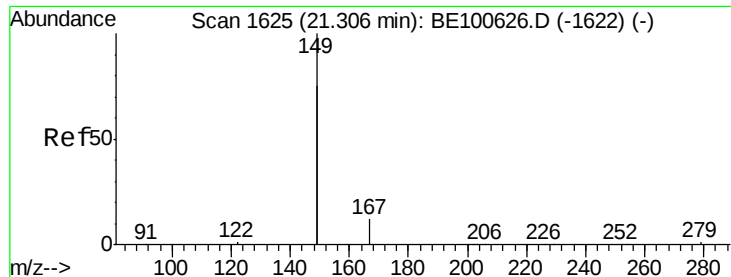
#31
Chrysene
Concen: 1.440 ng
RT: 21.40 min Scan# 1633
Delta R.T. 0.00 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:228 Resp: 127254
Ion Ratio Lower Upper
228 100
226 32.8 24.5 36.7
229 24.4 15.6 23.4#



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: 0.408 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

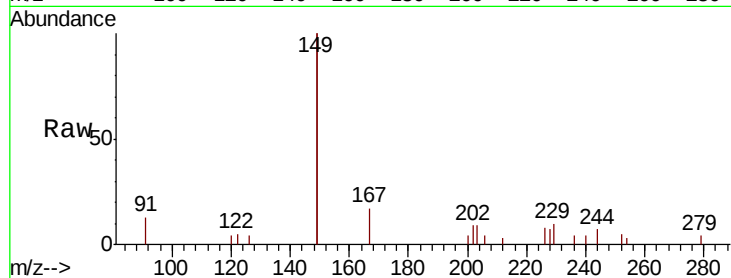
Tot Ion:149 Resp: 75446

Ion Ratio Lower Upper

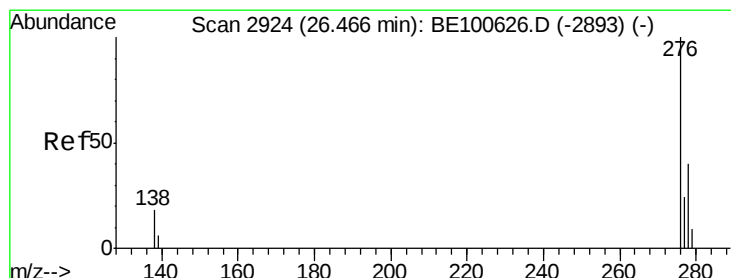
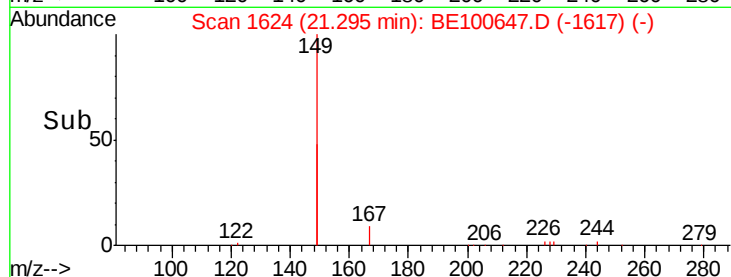
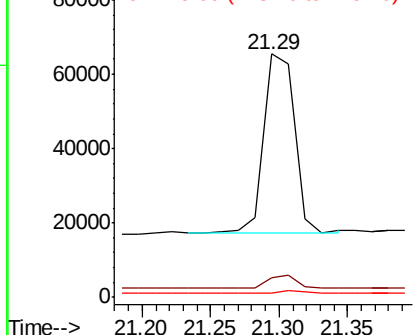
149 100

167 6.7 5.4 8.2

279 1.4 1.5 2.3#



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: 0.792 ng

RT: 26.48 min Scan# 2929

Delta R.T. 0.02 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

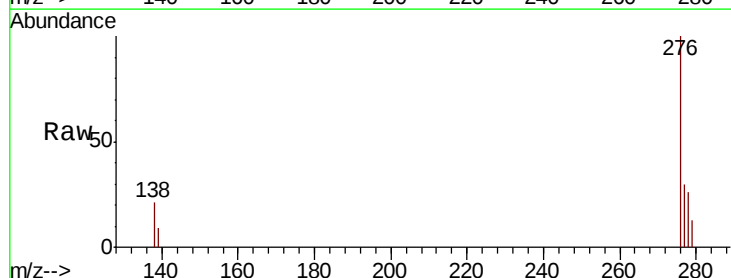
Tgt Ion:276 Resp: 86007

Ion Ratio Lower Upper

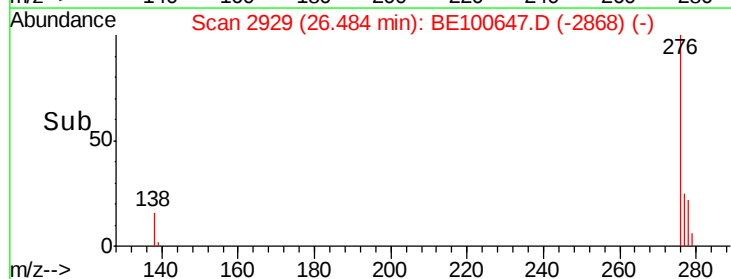
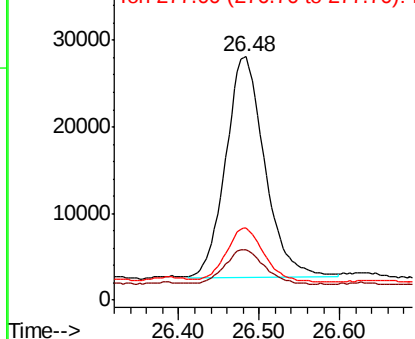
276 100

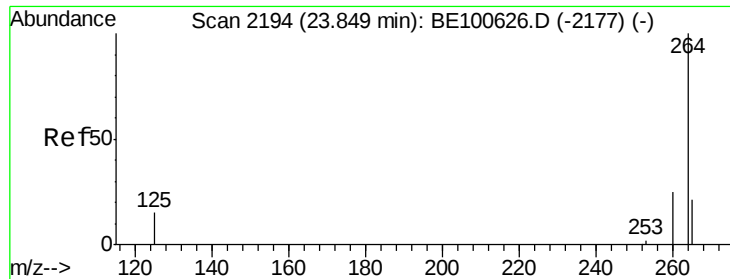
138 15.8 16.0 24.0#

277 24.1 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

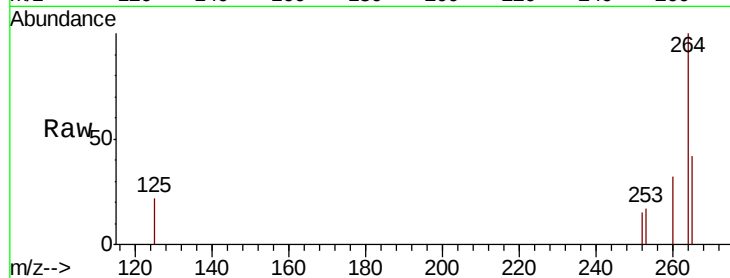




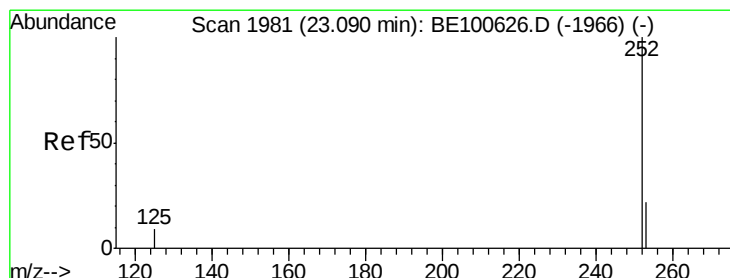
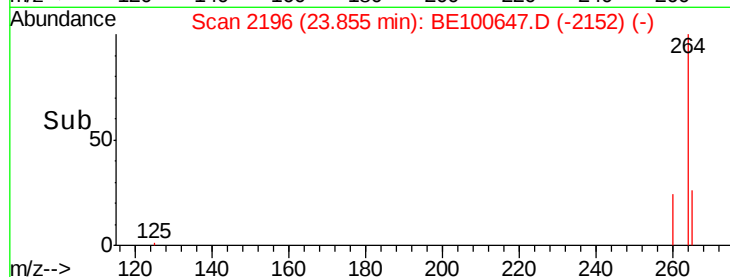
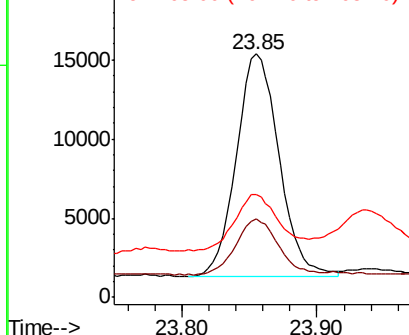
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.85 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Instrument :
BNA_E
ClientSampleId :

Tot Ion:264 Resp: 31182
Ion Ratio Lower Upper
264 100
260 32.0 19.9 29.9#
265 42.1 20.0 30.0#

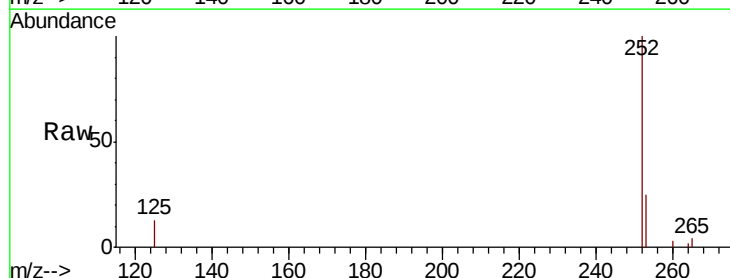


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

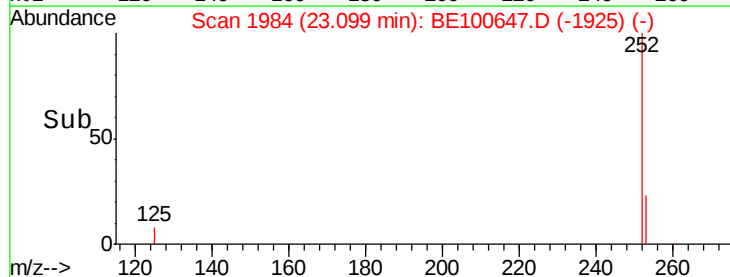
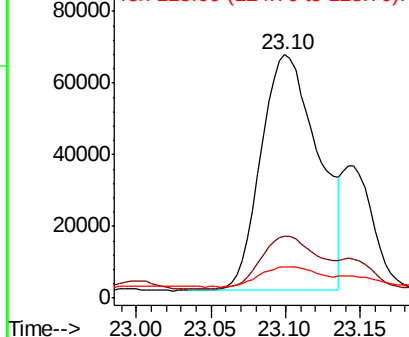


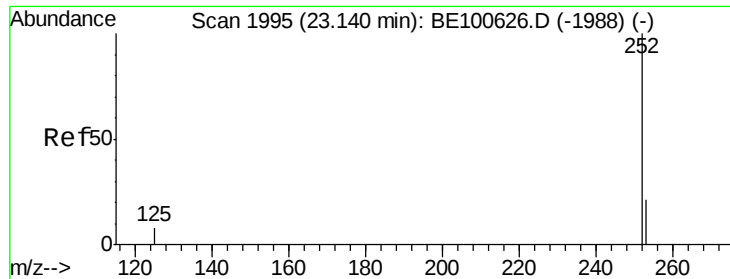
#35
Benzo(b)fluoranthene
Concen: 1.928 ng
RT: 23.10 min Scan# 1984
Delta R.T. 0.01 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:252 Resp: 175331
Ion Ratio Lower Upper
252 100
253 25.5 17.8 26.8
125 13.0 7.6 11.4#



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

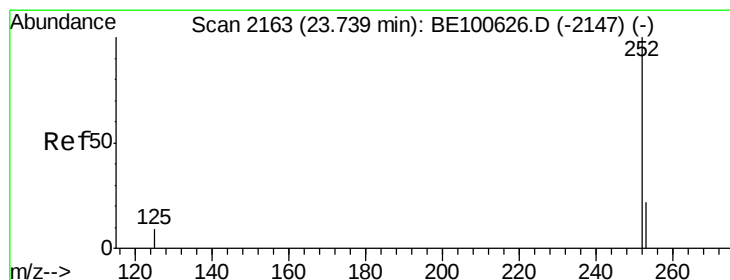
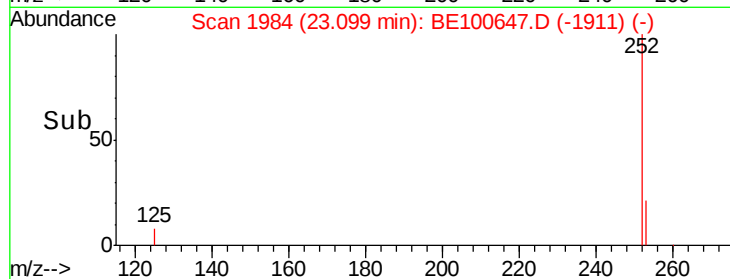
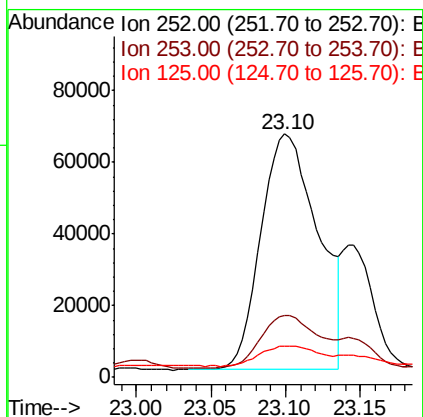
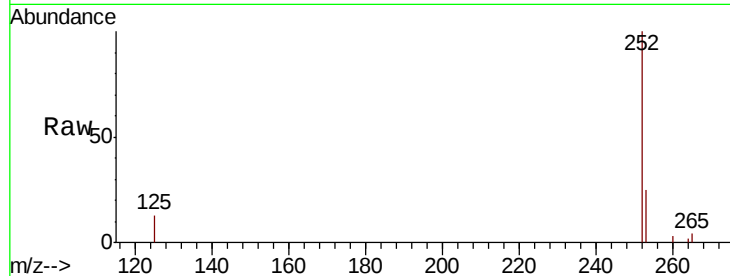




#36
Benzo(k)fluoranthene
Concen: 1.875 ng
RT: 23.10 min Scan# 1984
Delta R.T. -0.04 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

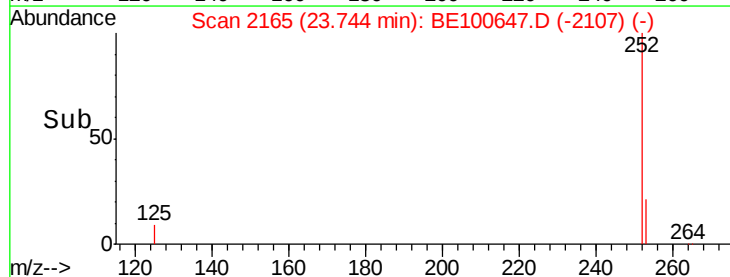
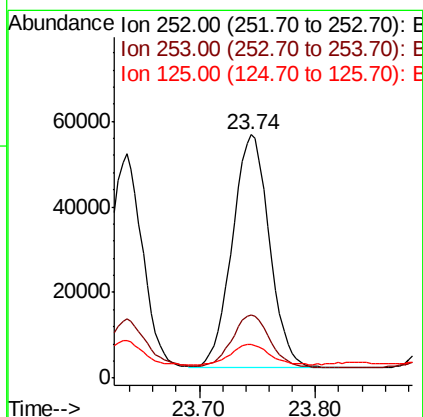
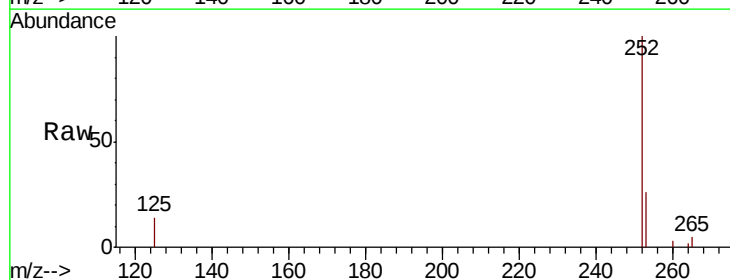
Instrument :
BNA_E
ClientSampleId :

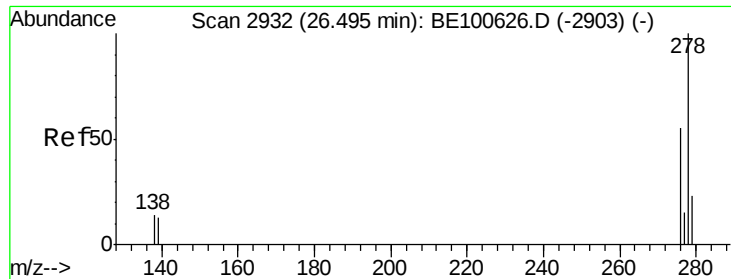
Tot Ion:252 Resp: 175331
Ion Ratio Lower Upper
252 100
253 25.5 17.8 26.6
125 13.0 7.6 11.4#



#37
Benzo(a)pyrene
Concen: 1.429 ng
RT: 23.74 min Scan# 2165
Delta R.T. 0.01 min
Lab File: BE100647.D
Acq: 15 Oct 2019 12:53

Tgt Ion:252 Resp: 120920
Ion Ratio Lower Upper
252 100
253 25.8 18.2 27.2
125 13.9 8.1 12.1#





#38

Dibenzo(a,h)anthracene

Concen: 0.261 ng

RT: 26.49 min Scan# 2932

Delta R.T. -0.00 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

Instrument :

BNA_E

ClientSampleId :

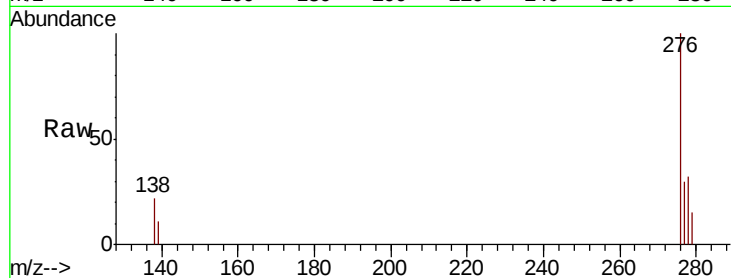
Tot Ion:278 Resp: 22845

Ion Ratio Lower Upper

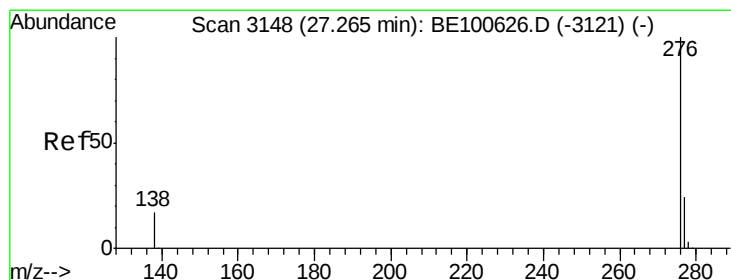
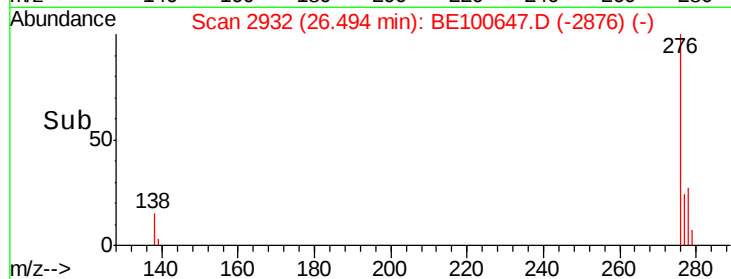
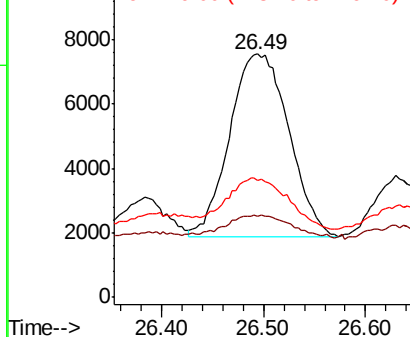
278 100

139 33.4 11.2 16.8#

279 48.0 19.0 28.6#



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(g,h,i)perylene

Concen: 1.090 ng

RT: 27.29 min Scan# 3155

Delta R.T. 0.02 min

Lab File: BE100647.D

Acq: 15 Oct 2019 12:53

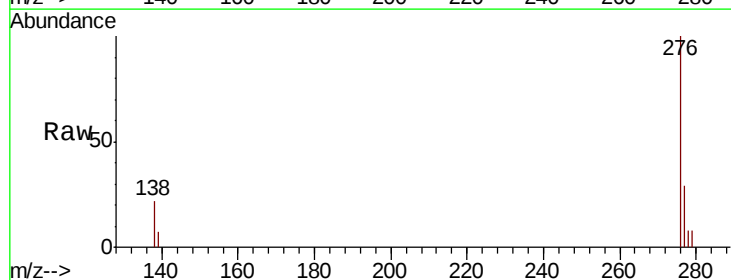
Tgt Ion:276 Resp: 95870

Ion Ratio Lower Upper

276 100

277 29.4 19.3 28.9#

138 21.8 14.5 21.7#



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

