

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE062619\
 Data File : BE100194.D
 Acq On : 26 Jun 2019 14:30
 Operator : JU/SJ
 Sample : K3350-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 2

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-190611

Quant Time: Jun 27 04:44:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE062519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 15:40:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	1189	0.80	ng	0.00
7) Naphthalene-d8	10.47	136	3937	0.80	ng	0.00
13) Acenaphthene-d10	14.34	164	2986	0.80	ng	0.00
19) Phenanthrene-d10	17.09	188	10032	0.80	ng	0.00
27) Chrysene-d12	21.28	240	14591	0.80	ng	0.00
34) Perylene-d12	23.72	264	17120	0.80	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.24	112	220	0.17	ng	0.00
5) Phenol-d6	6.85	99	198	0.11	ng	-0.02
8) Nitrobenzene-d5	8.85	82	755	0.39	ng	0.00
11) 2-Methylnaphthalene-d10	12.08	152	1291	0.35	ng	0.00
14) 2,4,6-Tribromophenol	15.85	330	298	0.34	ng	0.00
15) 2-Fluorobiphenyl	12.97	172	2929	0.49	ng	0.00
25) Fluoranthene-d10	19.13	212	26886	0.37	ng	0.00
29) Terphenyl-d14	19.72	244	7521	0.53	ng	-0.01

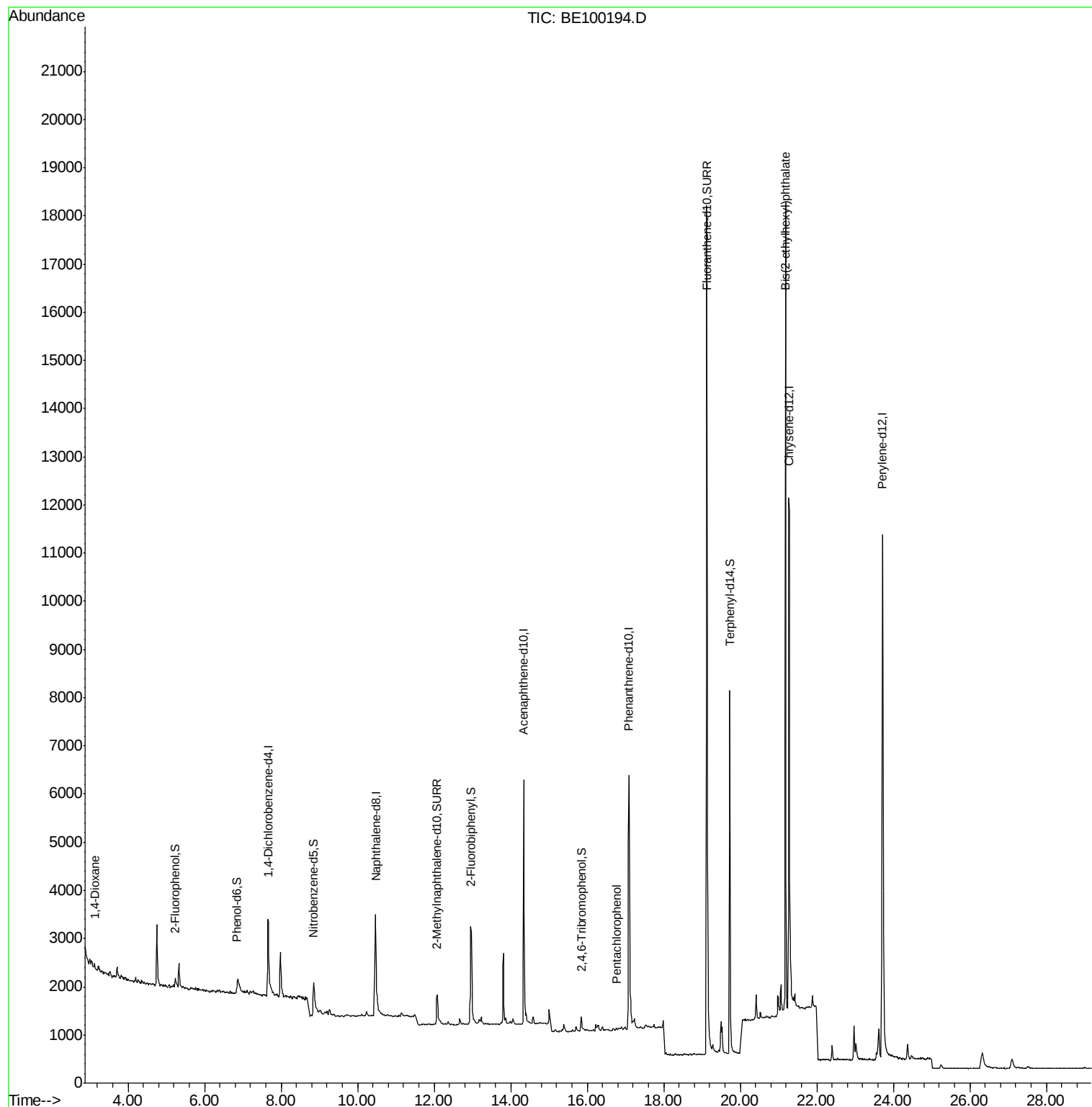
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.12	88	73	0.078	ng	# 74
17) Acenaphthene	14.40	154	84	0.021	ng	93
18) Fluorene	15.39	166	138	0.023	ng	# 95
21) Hexachlorobenzene	16.40	284	77	0.023	ng	95
22) Pentachlorophenol	16.76	266	43	0.580	ng	96
23) Phenanthrene	17.23	178	238	0.020	ng	94
24) Anthracene	17.23	178	221	0.022	ng	96
26) Fluoranthene	19.16	202	510	0.026	ng	# 91
28) Pyrene	19.52	202	538	0.029	ng	99
30) Benzo(a)anthracene	21.26	228	581	0.027	ng	# 75
31) Chrysene	21.32	228	586	0.023	ng	# 80
32) Bis(2-ethylhexyl)phthalate	21.19	149	17111	0.692	ng	99
35) Benzo(b)fluoranthene	22.97	252	563	0.024	ng	# 1
36) Benzo(k)fluoranthene	23.02	252	583	0.021	ng	# 45
37) Benzo(a)pyrene	23.61	252	599	0.025	ng	# 1
39) Benzo(g,h,i)perylene	27.10	276	609	0.023	ng	# 56

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

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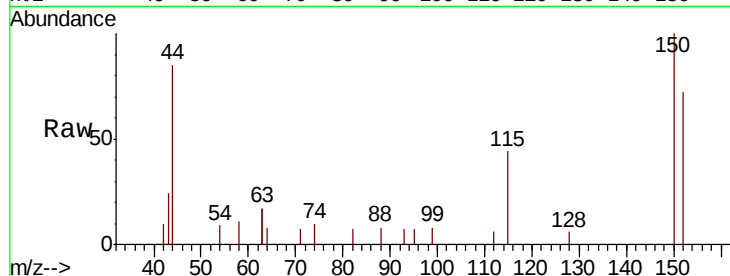


#1

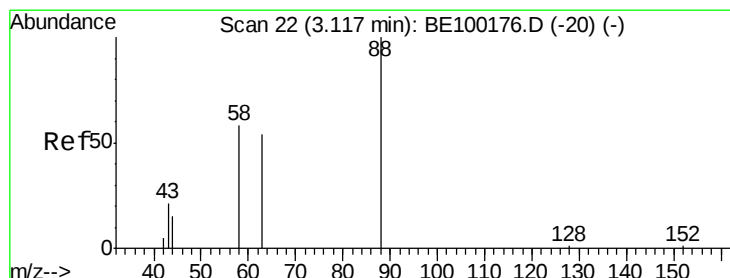
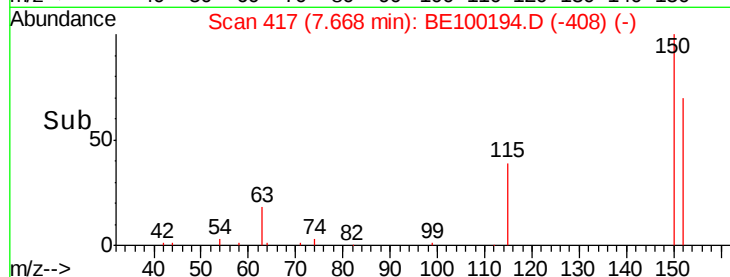
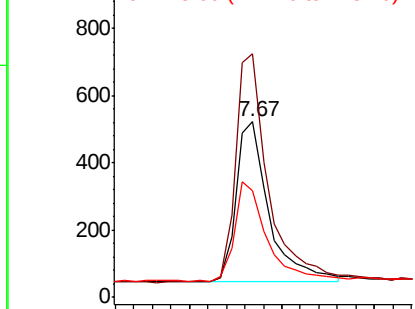
1,4-Dichlorobenzene-d4
 Concen: 0.800 ng
 RT: 7.67 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-190611

Tgt Ion: 152 Resp: 1189
 Ion Ratio Lower Upper
 152 100
 150 139.0 113.4 170.2
 115 60.7 55.8 83.6



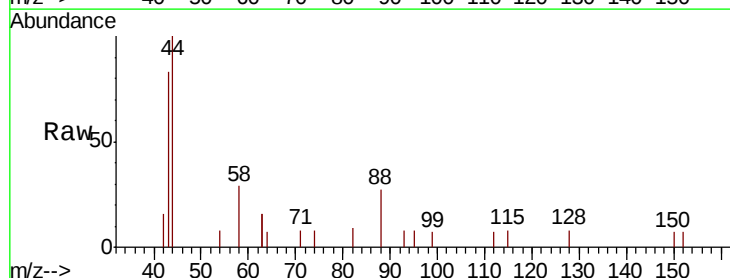
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



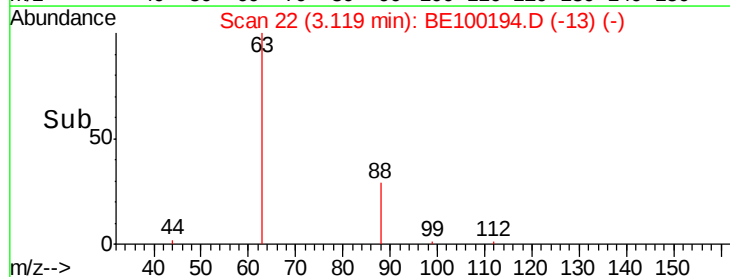
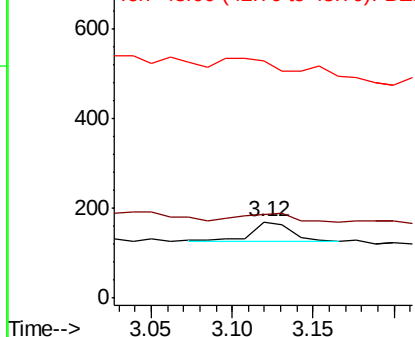
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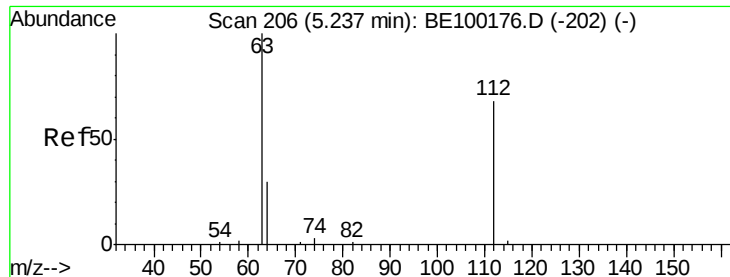
1,4-Dioxane
 Concen: 0.078 ng
 RT: 3.12 min Scan# 22
 Delta R.T. 0.00 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

Tgt Ion: 88 Resp: 73
 Ion Ratio Lower Upper
 88 100
 58 65.8 43.8 65.6#
 43 0.0 19.4 29.2#



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: 0.166 ng

RT: 5.24 min Scan# 206

Delta R.T. 0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

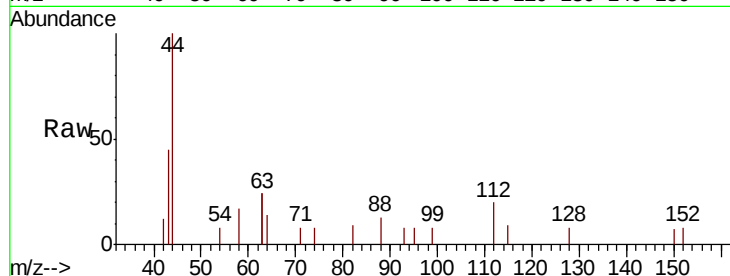
Tgt Ion: 112 Resp: 220

Ion Ratio Lower Upper

112 100

64 60.0 40.7 61.1

63 181.4 93.2 139.8#

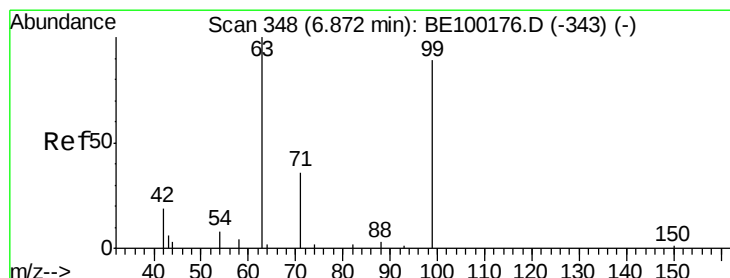
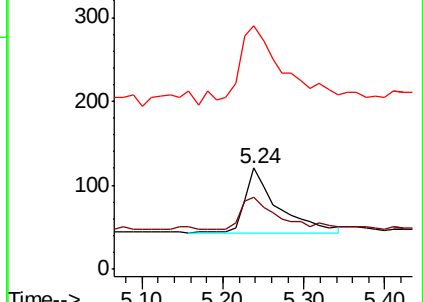
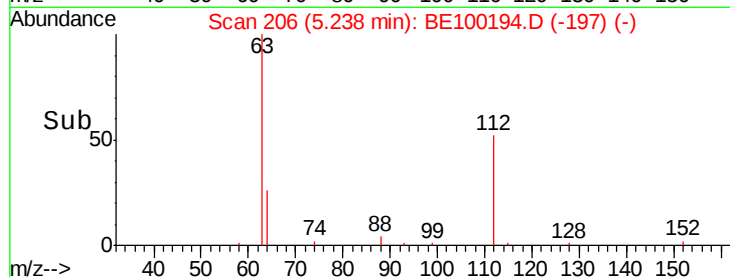


Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

Time-->



#5

Phenol-d6

Concen: 0.109 ng

RT: 6.85 min Scan# 346

Delta R.T. -0.02 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

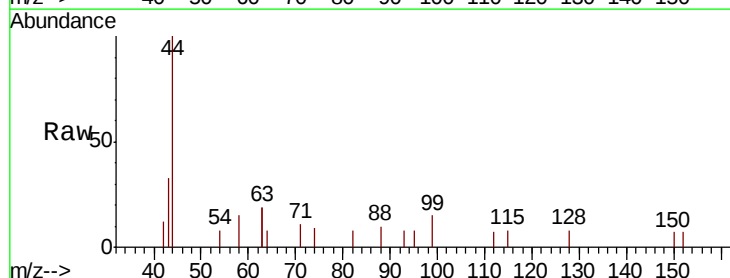
Tgt Ion: 99 Resp: 198

Ion Ratio Lower Upper

99 100

42 18.7 10.4 15.6#

71 39.9 32.4 48.6

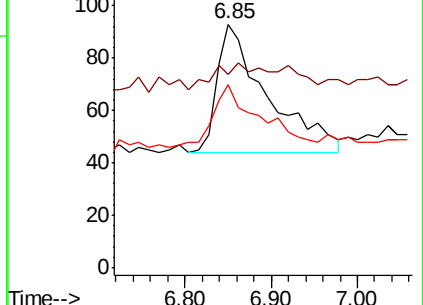
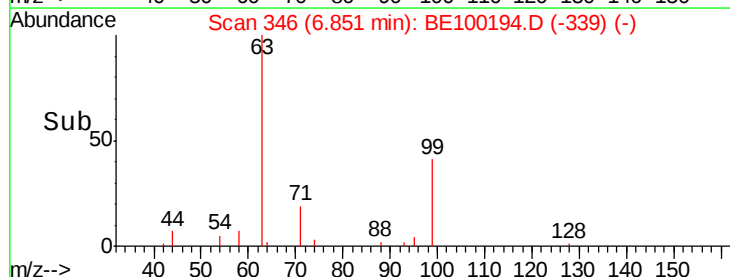


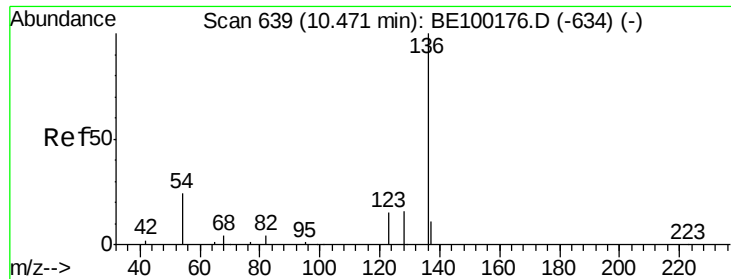
Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1

Time-->





#7

Naphthalene-d8

Concen: 0.800 ng

RT: 10.47 min Scan# 639

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

Tgt Ion: 136 Resp: 3937

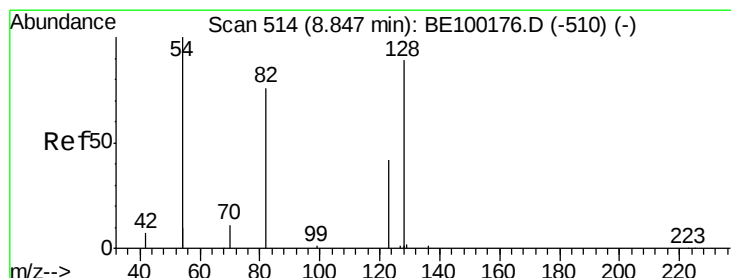
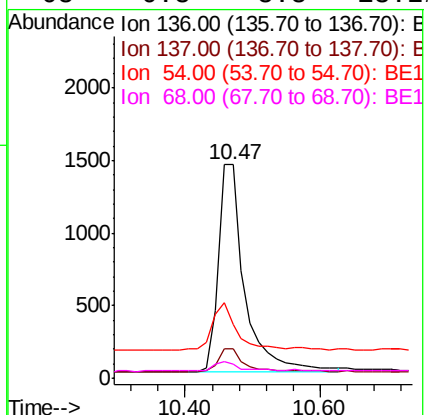
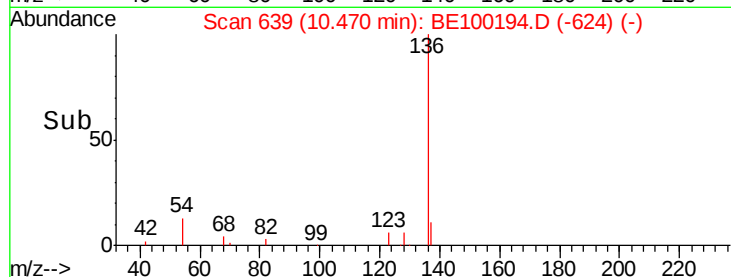
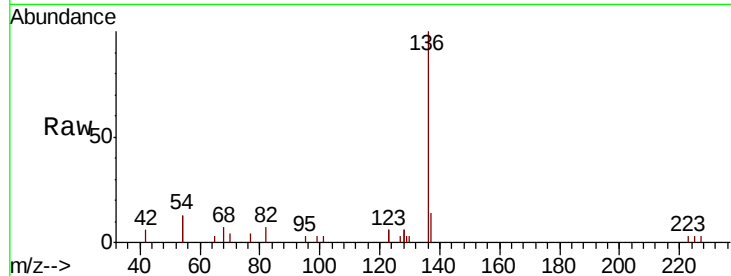
Ion Ratio Lower Upper

136 100

137 13.7 13.8 20.8#

54 25.0 35.4 53.2#

68 6.8 8.8 13.2#



#8

Nitrobenzene-d5

Concen: 0.385 ng

RT: 8.85 min Scan# 514

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

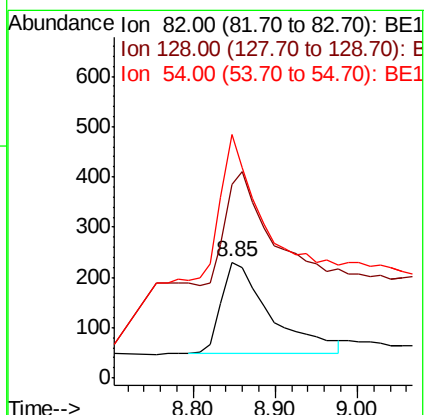
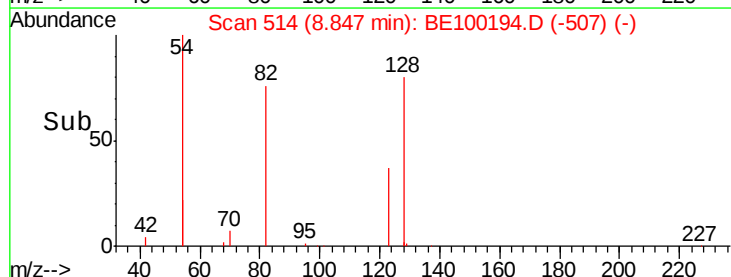
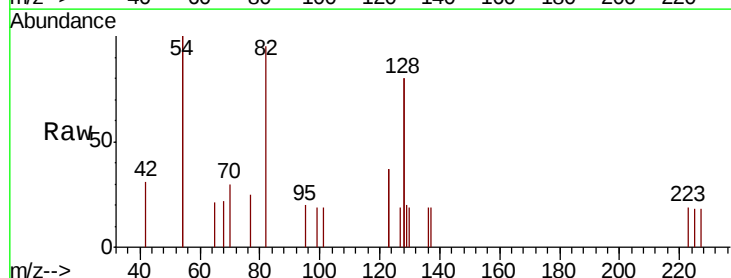
Tgt Ion: 82 Resp: 755

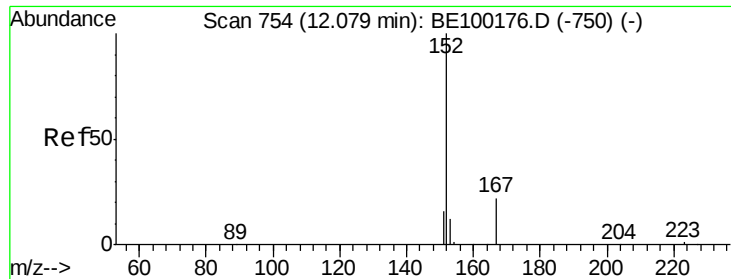
Ion Ratio Lower Upper

82 100

128 167.8 144.6 217.0

54 210.4 163.0 244.6

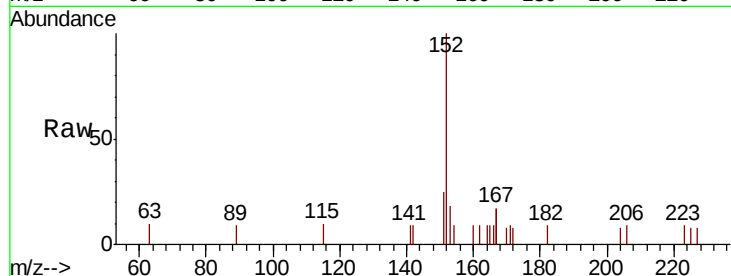




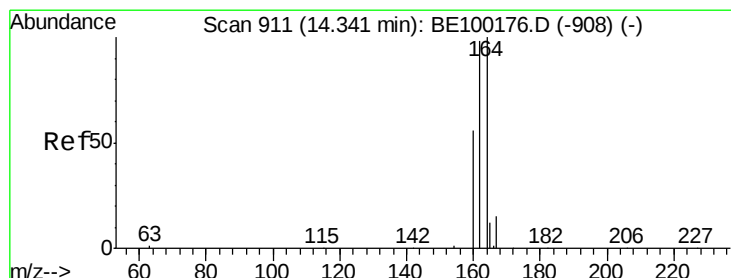
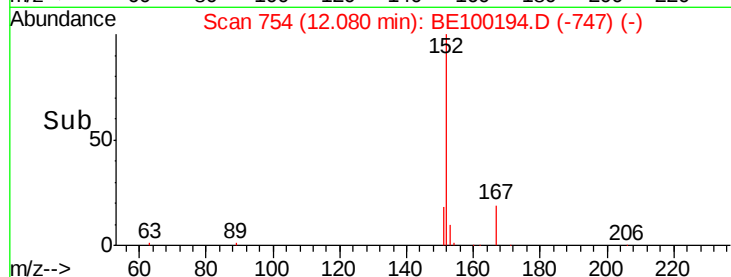
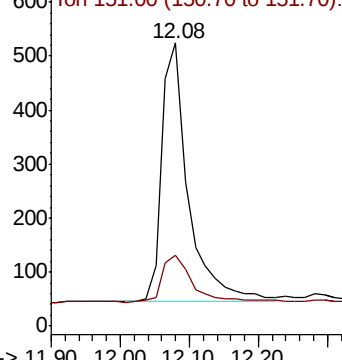
#11
 2-Methylnaphthalene-d10
 Concen: 0.350 ng
 RT: 12.08 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-190611

Tgt Ion:152 Resp: 1291
 Ion Ratio Lower Upper
 152 100
 151 21.5 16.3 24.5

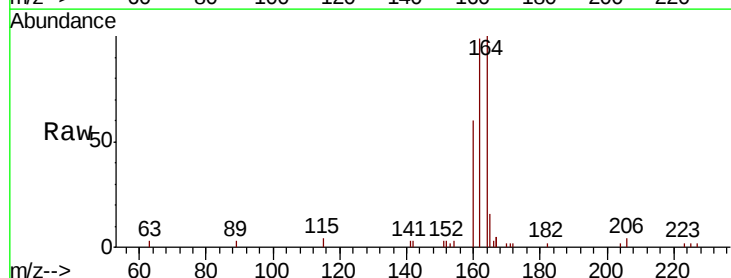


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E

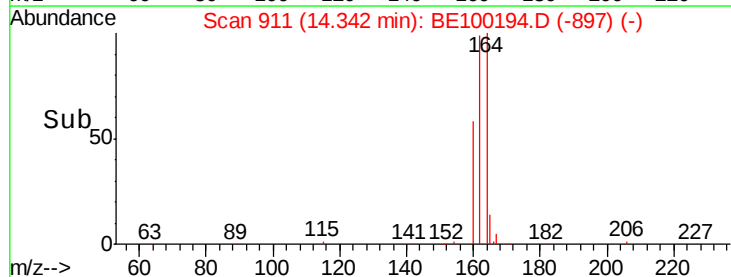
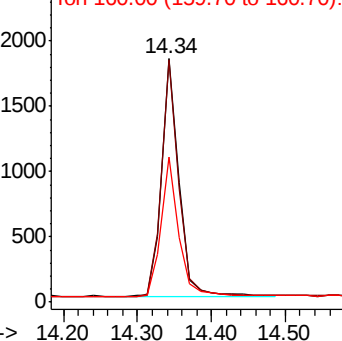


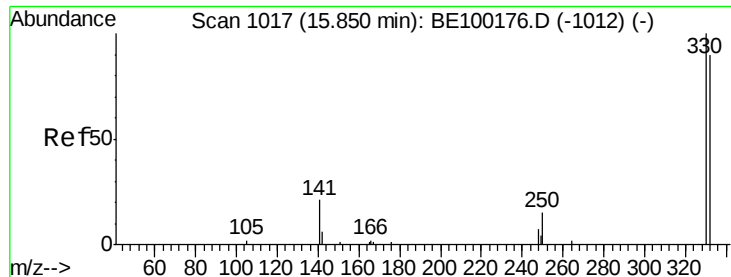
#13
 Acenaphthene-d10
 Concen: 0.800 ng
 RT: 14.34 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

Tgt Ion:164 Resp: 2986
 Ion Ratio Lower Upper
 164 100
 162 99.3 78.6 118.0
 160 59.6 46.9 70.3



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: 0.345 ng

RT: 15.85 min Scan# 1017

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

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ClientSampleId :

OUTFALL001-190611

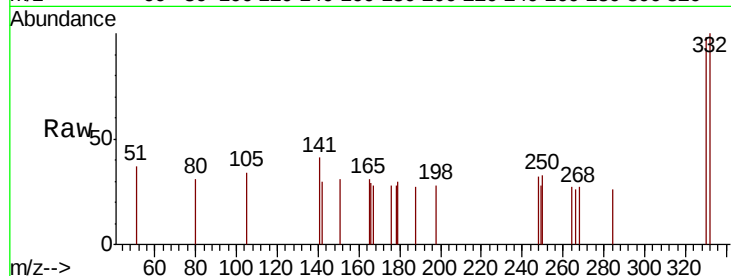
Tgt Ion:330 Resp: 298

Ion Ratio Lower Upper

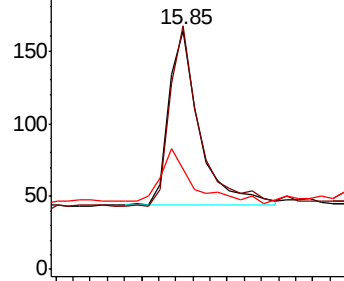
330 100

332 102.7 77.7 116.5

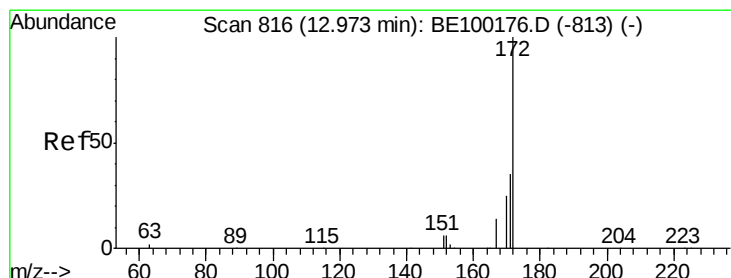
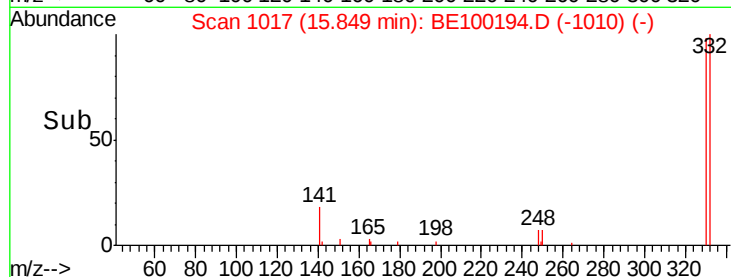
141 33.2 18.9 28.3#



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



Time--> 15.70 15.80 15.90 16.00



#15

2-Fluorobiphenyl

Concen: 0.489 ng

RT: 12.97 min Scan# 816

Delta R.T. 0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

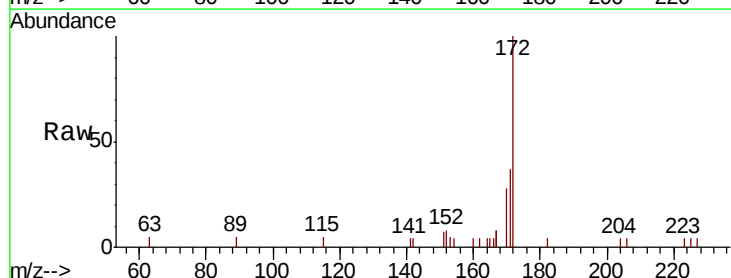
Tgt Ion:172 Resp: 2929

Ion Ratio Lower Upper

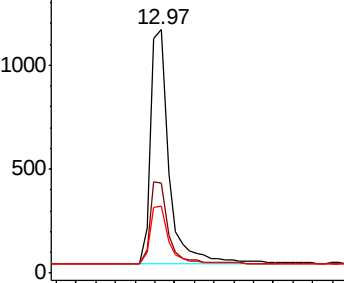
172 100

171 37.0 31.0 46.4

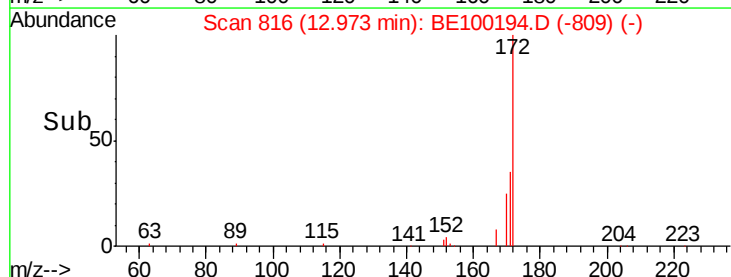
170 27.5 23.9 35.9

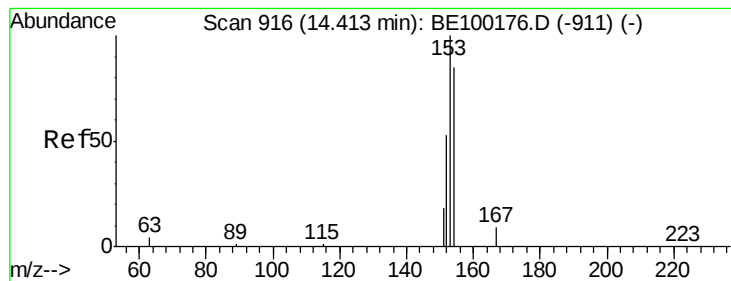


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



Time--> 12.80 13.00 13.20





#17

Acenaphthene

Concen: 0.021 ng

RT: 14.40 min Scan# 915

Delta R.T. -0.01 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

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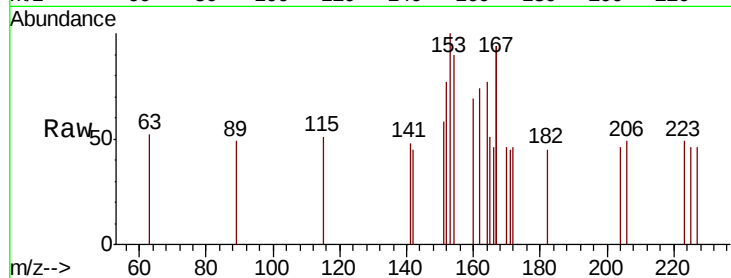
Tgt Ion:154 Resp: 84

Ion Ratio Lower Upper

154 100

153 122.6 95.3 142.9

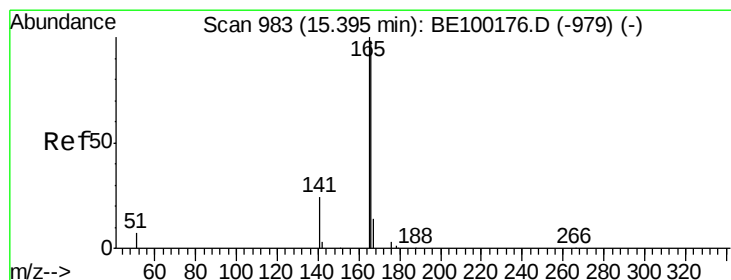
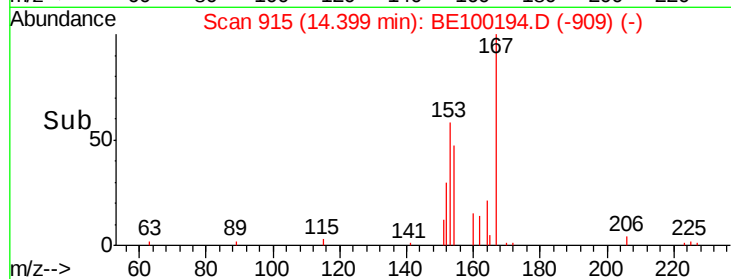
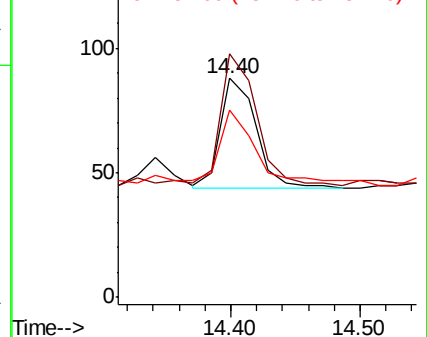
152 56.0 52.9 79.3



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: 0.023 ng

RT: 15.39 min Scan# 983

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

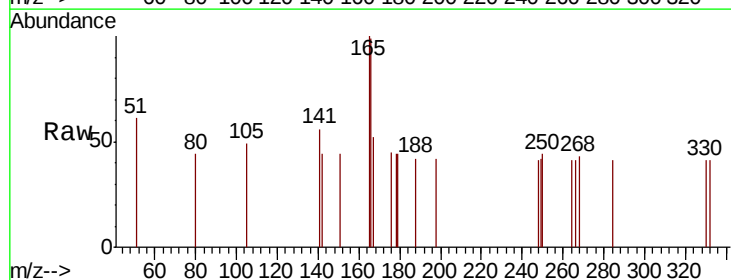
Tgt Ion:166 Resp: 138

Ion Ratio Lower Upper

166 100

165 102.9 81.0 121.4

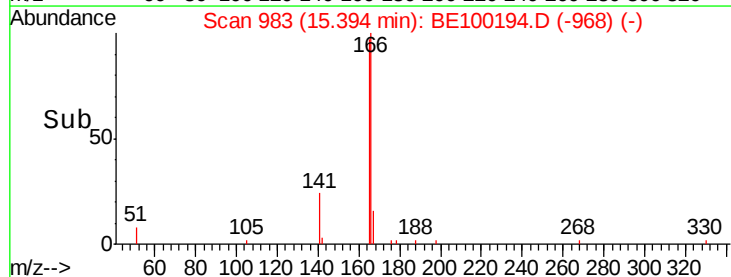
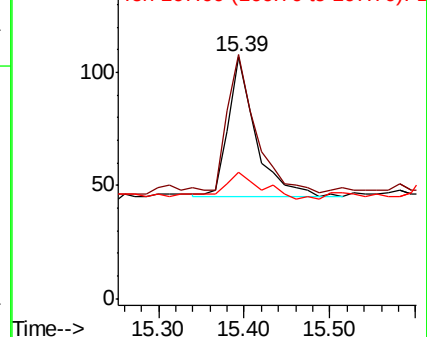
167 27.5 11.4 17.0#

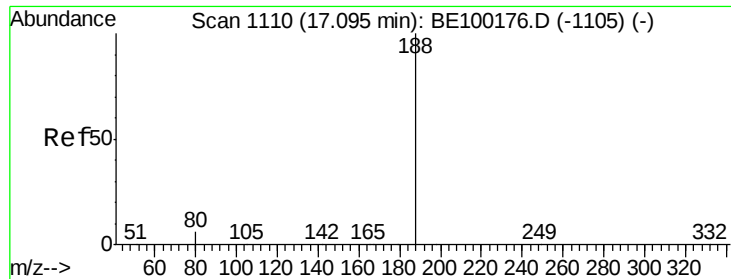


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.800 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.00 min

Lab File: BE100194.D

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Instrument :

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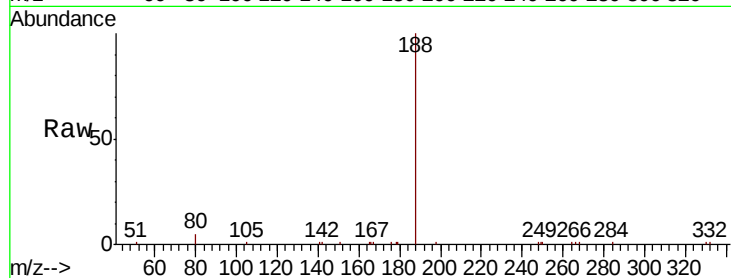
Tgt Ion:188 Resp: 10032

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

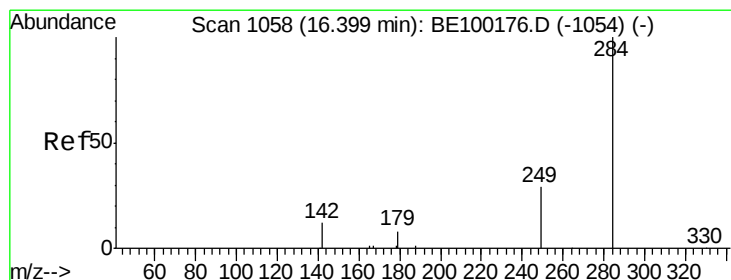
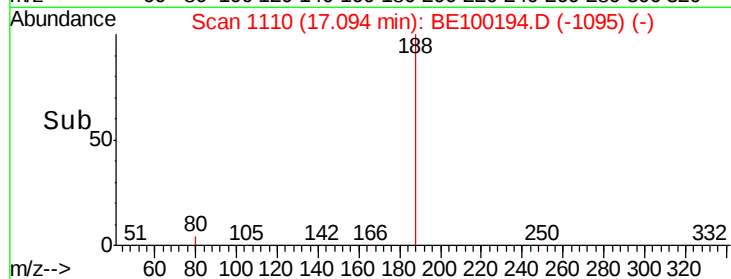
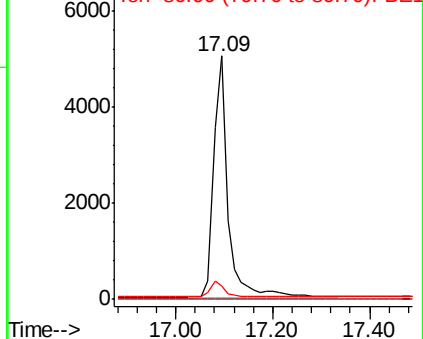
80 5.4 6.4 9.6#



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



#21

Hexachlorobenzene

Concen: 0.023 ng

RT: 16.40 min Scan# 1058

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

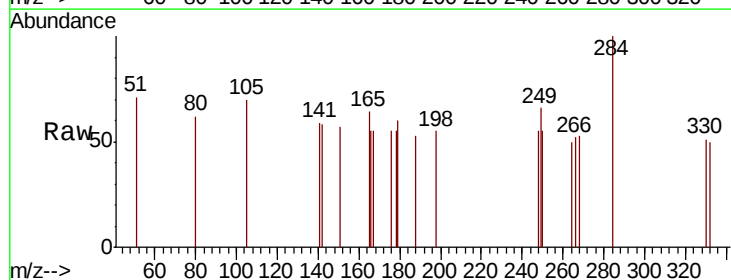
Tgt Ion:284 Resp: 77

Ion Ratio Lower Upper

284 100

142 28.6 20.1 30.1

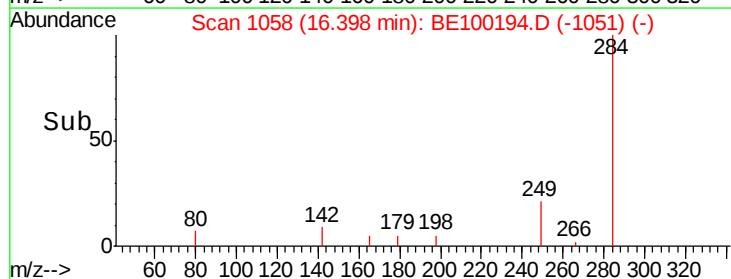
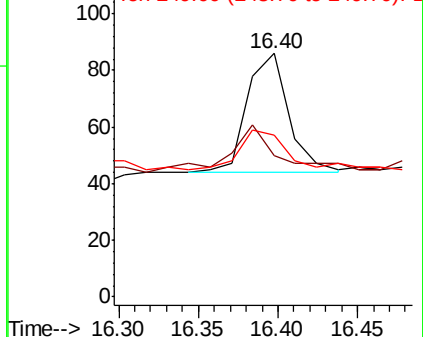
249 35.1 26.2 39.4

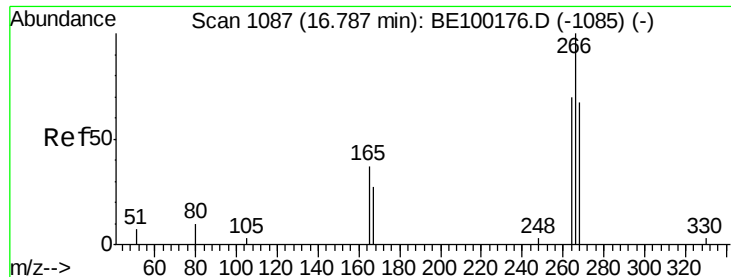


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.580 ng

RT: 16.76 min Scan# 1085

Delta R.T. -0.03 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

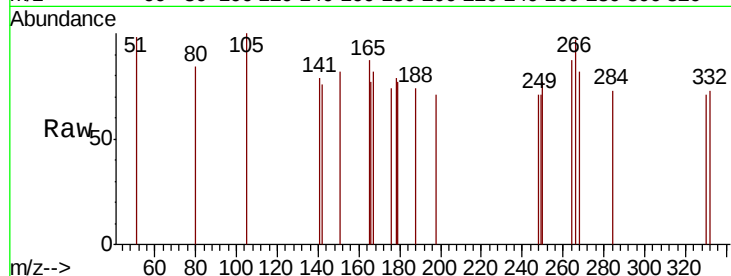
Tgt Ion:266 Resp: 43

Ion Ratio Lower Upper

266 100

264 90.0 67.7 101.5

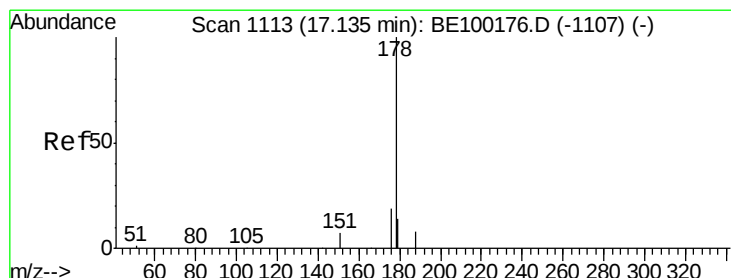
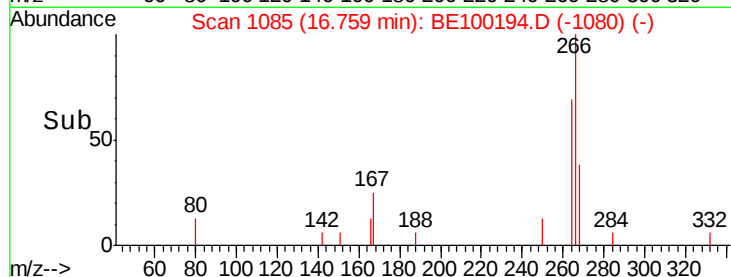
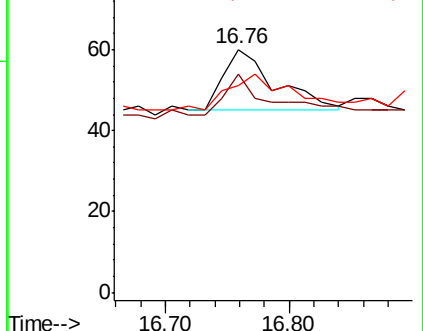
268 85.0 69.8 104.6



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: 0.020 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.09 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

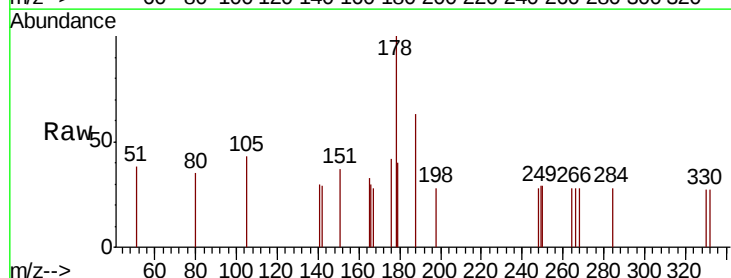
Tgt Ion:178 Resp: 238

Ion Ratio Lower Upper

178 100

176 23.1 15.5 23.3

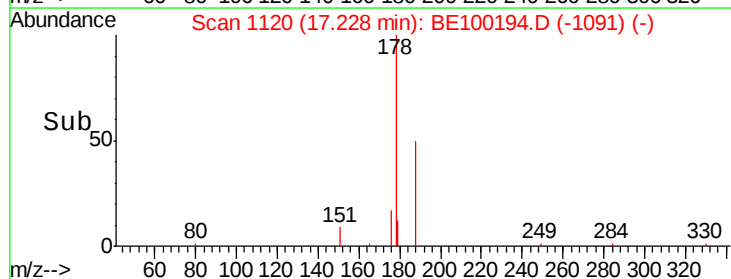
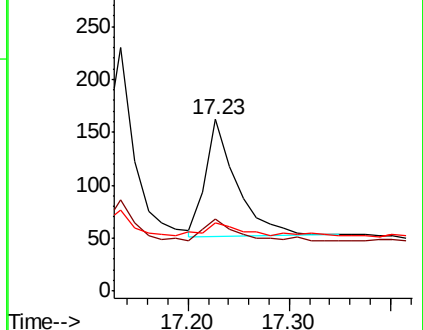
179 13.4 12.2 18.2

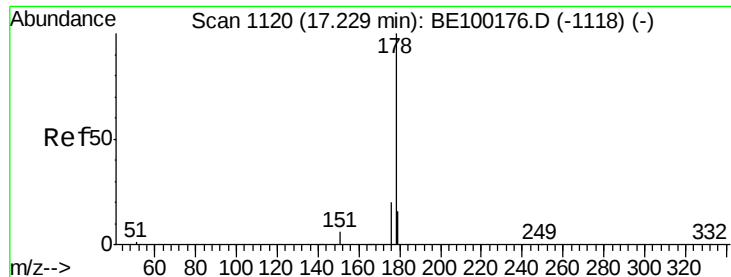


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.022 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

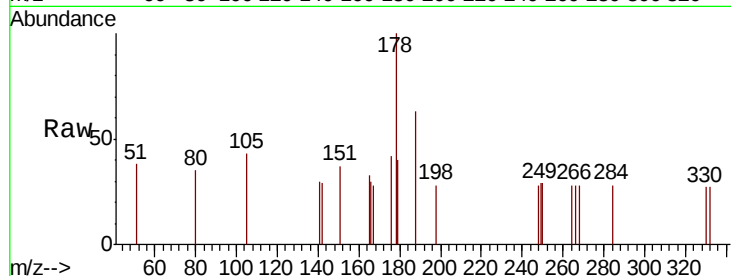
Tgt Ion:178 Resp: 221

Ion Ratio Lower Upper

178 100

176 20.4 15.7 23.5

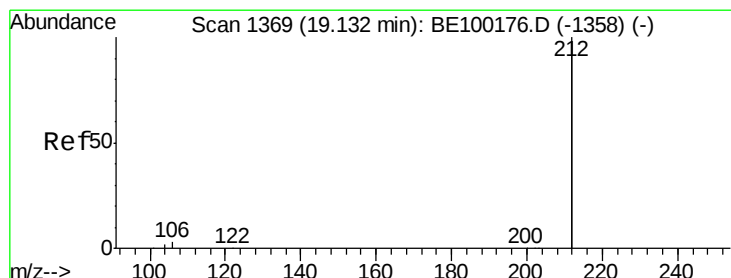
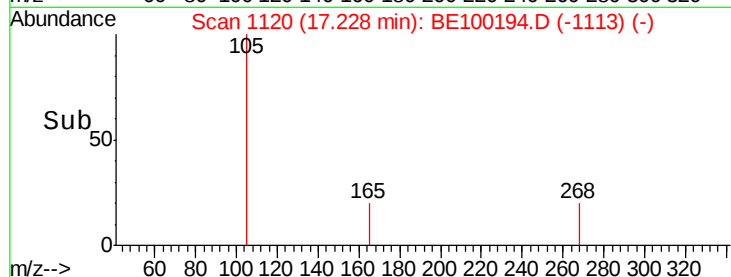
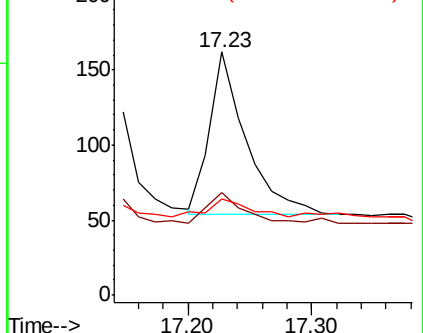
179 13.1 12.9 19.3



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: 0.372 ng

RT: 19.13 min Scan# 1368

Delta R.T. -0.01 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

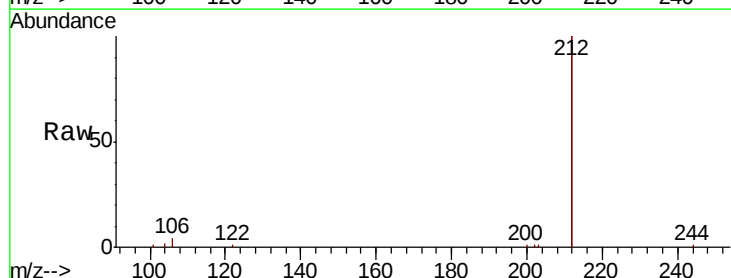
Tgt Ion:212 Resp: 26886

Ion Ratio Lower Upper

212 100

106 1.6 1.3 1.9

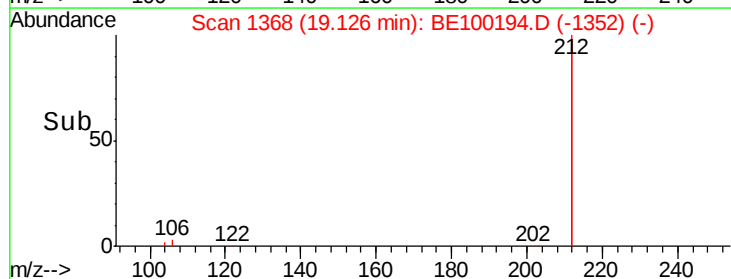
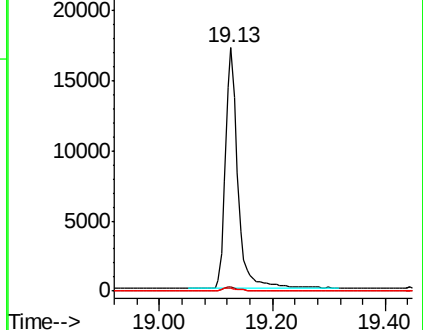
104 1.0 0.7 1.1

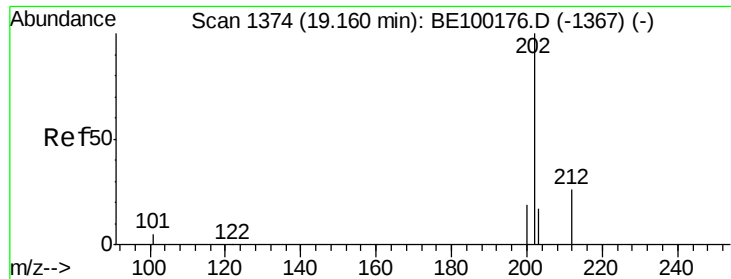


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

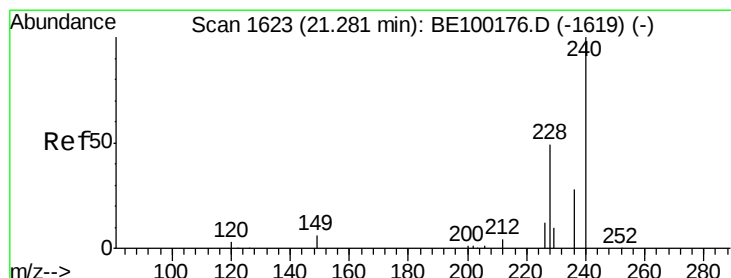
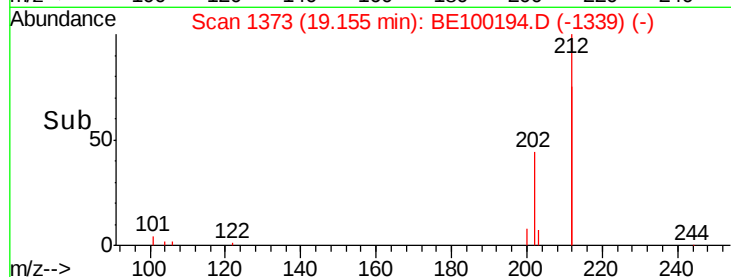
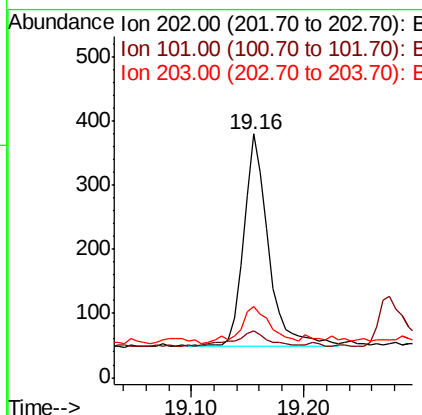
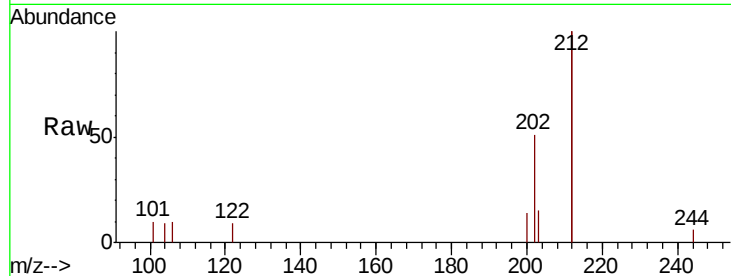




#26
Fluoranthene
Concen: 0.026 ng
RT: 19.16 min Scan# 1373
Delta R.T. -0.01 min
Lab File: BE100194.D
Acq: 26 Jun 2019 14:30

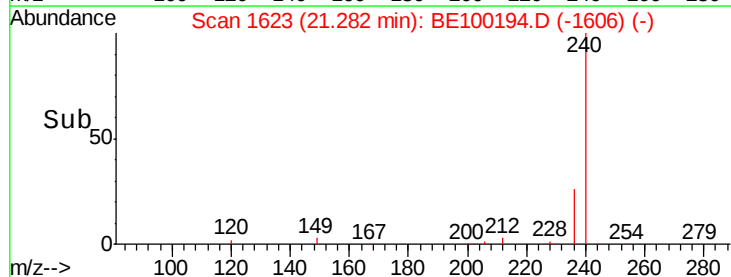
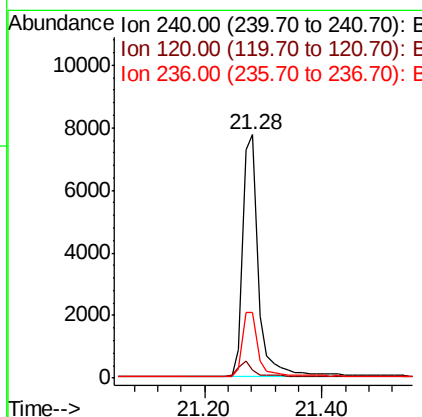
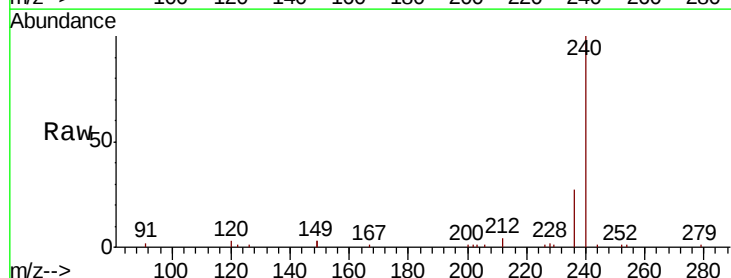
Instrument :
BNA_E
ClientSampleId :
OUTFALL001-190611

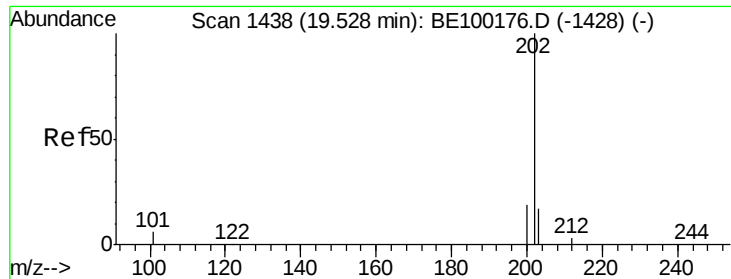
Tgt Ion: 202 Resp: 510
Ion Ratio Lower Upper
202 100
101 9.6 4.5 6.7#
203 20.6 13.7 20.5#



#27
Chrysene-d12
Concen: 0.800 ng
RT: 21.28 min Scan# 1623
Delta R.T. 0.00 min
Lab File: BE100194.D
Acq: 26 Jun 2019 14:30

Tgt Ion: 240 Resp: 14591
Ion Ratio Lower Upper
240 100
120 3.1 4.1 6.1#
236 27.0 23.0 34.6

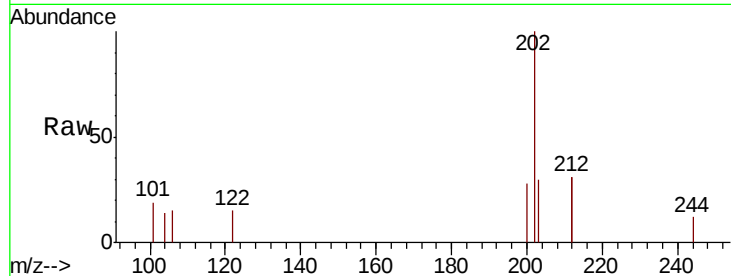




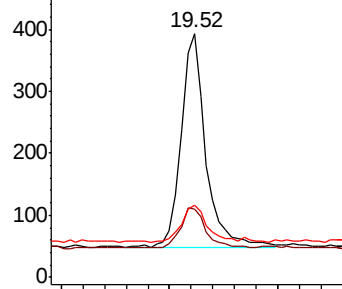
#28
 Pyrene
 Concen: 0.029 ng
 RT: 19.52 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-190611

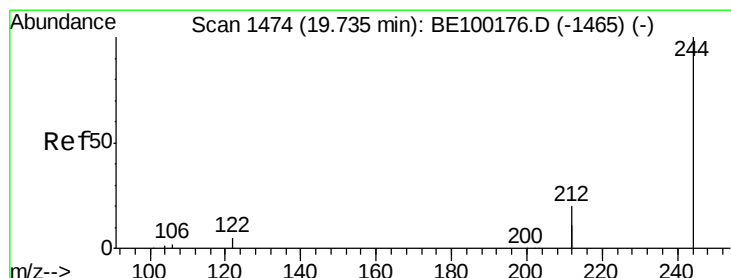
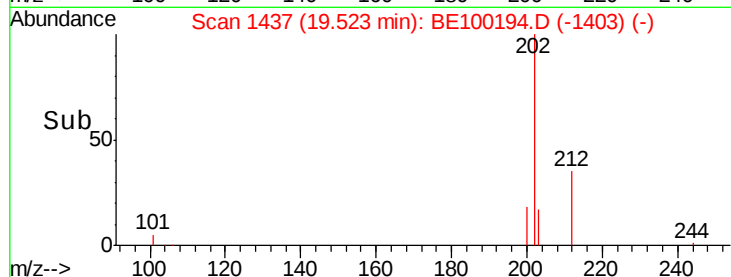
Tgt Ion: 202 Resp: 538
 Ion Ratio Lower Upper
 202 100
 200 19.3 15.5 23.3
 203 17.8 13.9 20.9



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

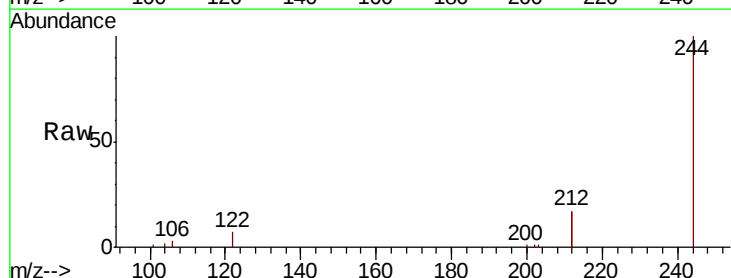


Time--> 19.40 19.50 19.60

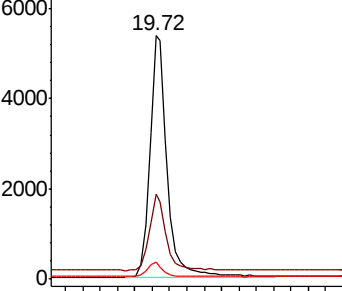


#29
 Terphenyl-d14
 Concen: 0.525 ng
 RT: 19.72 min Scan# 1472
 Delta R.T. -0.01 min
 Lab File: BE100194.D
 Acq: 26 Jun 2019 14:30

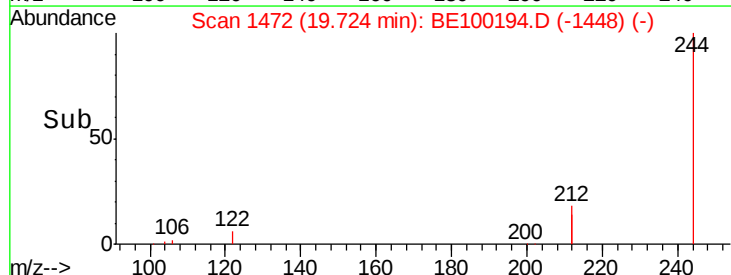
Tgt Ion: 244 Resp: 7521
 Ion Ratio Lower Upper
 244 100
 212 34.9 30.7 46.1
 122 6.9 5.8 8.6

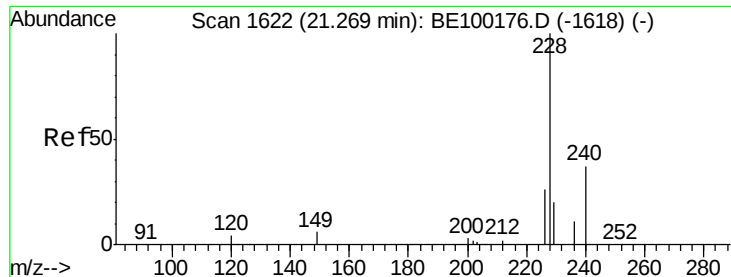


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E



Time--> 19.70 19.80 19.90





#30

Benzo(a)anthracene

Concen: 0.027 ng

RT: 21.26 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

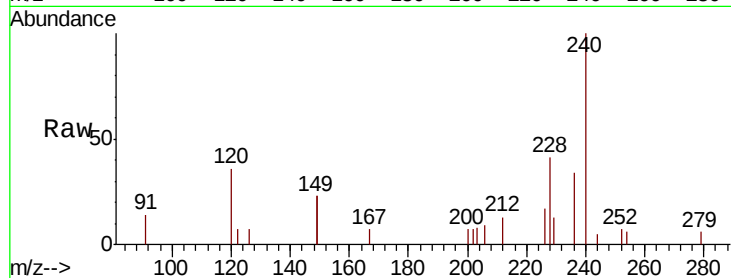
Tgt Ion:228 Resp: 581

Ion Ratio Lower Upper

228 100

226 41.1 21.5 32.3#

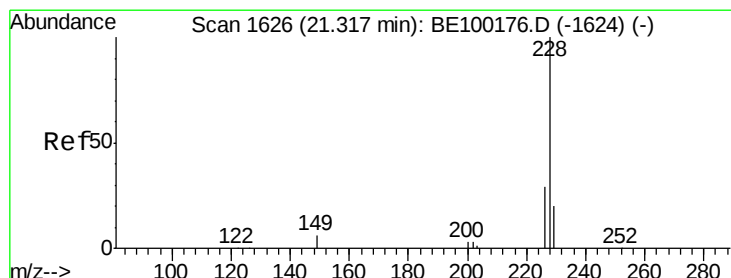
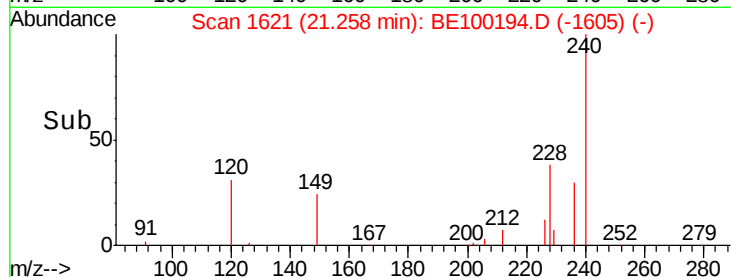
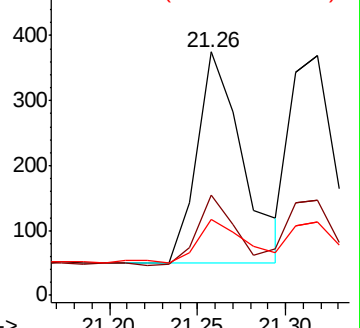
229 31.5 17.2 25.8#



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: 0.023 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

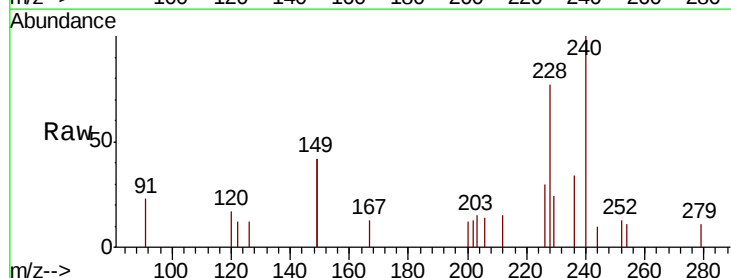
Tgt Ion:228 Resp: 586

Ion Ratio Lower Upper

228 100

226 39.6 23.7 35.5#

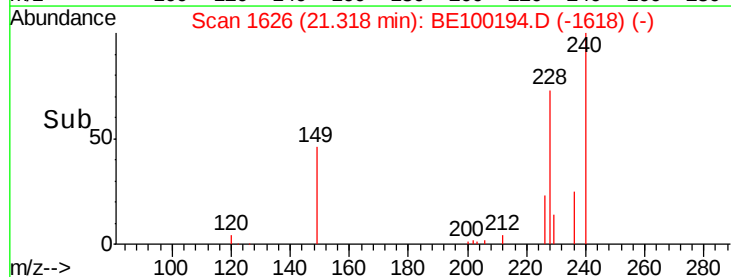
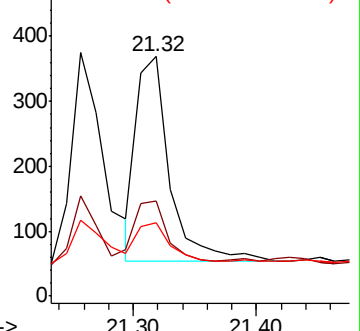
229 30.9 16.5 24.7#

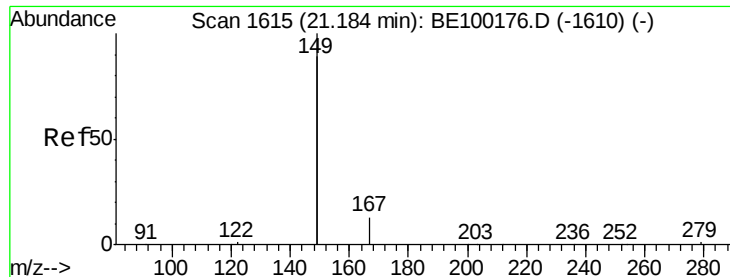


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.692 ng

RT: 21.19 min Scan# 1615

Delta R.T. 0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

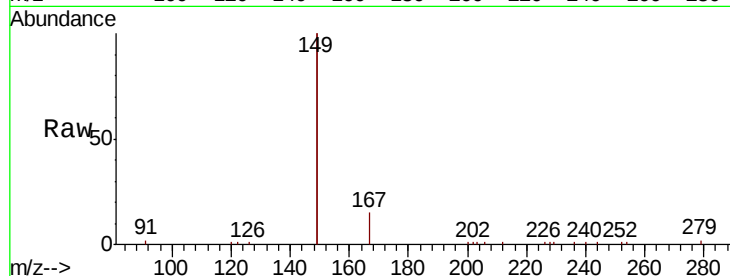
Tgt Ion:149 Resp: 17111

Ion Ratio Lower Upper

149 100

167 7.1 5.9 8.9

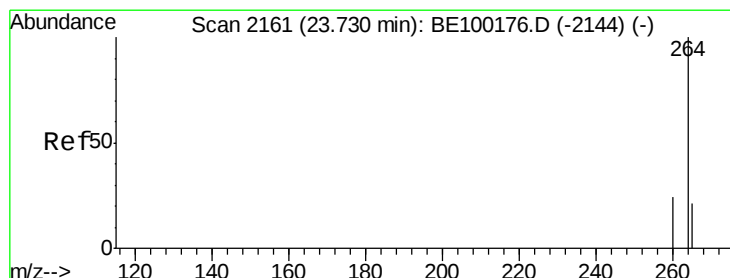
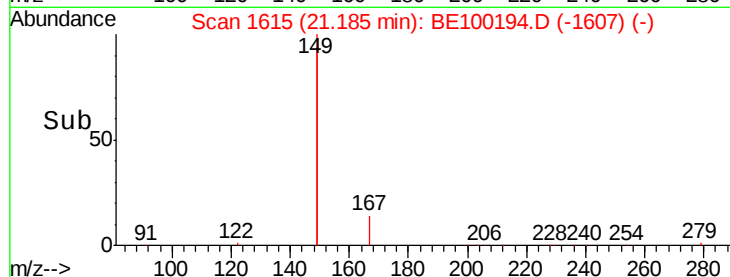
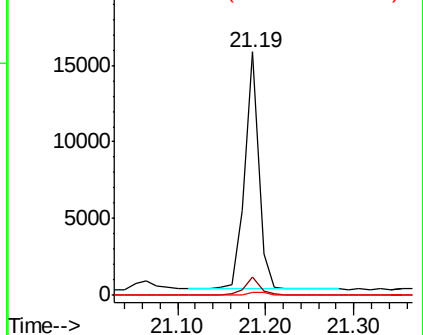
279 1.3 1.0 1.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34

Perylene-d12

Concen: 0.800 ng

RT: 23.72 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

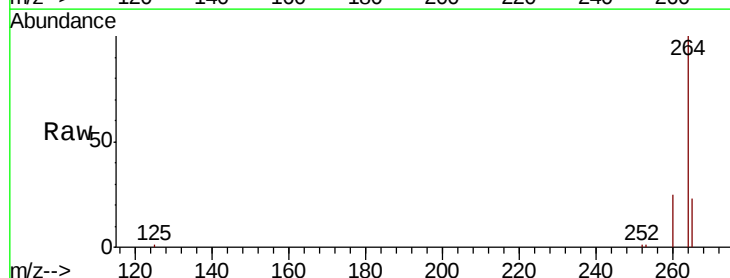
Tgt Ion:264 Resp: 17120

Ion Ratio Lower Upper

264 100

260 25.4 20.4 30.6

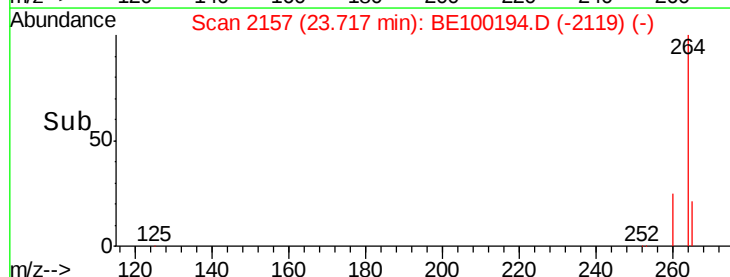
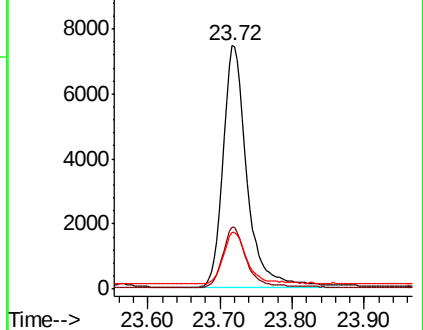
265 23.2 22.5 33.7

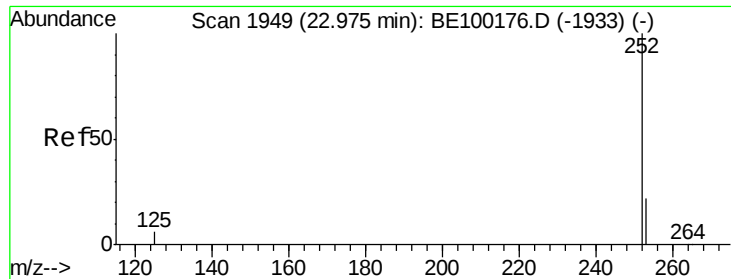


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.024 ng

RT: 22.97 min Scan# 1948

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

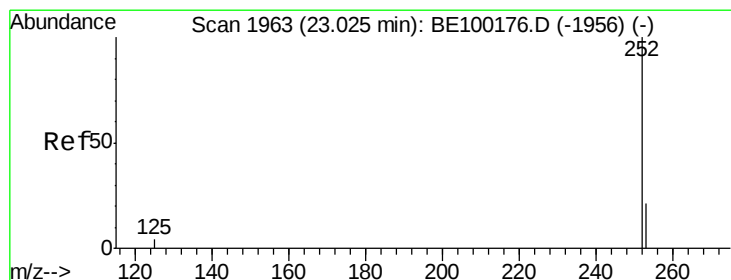
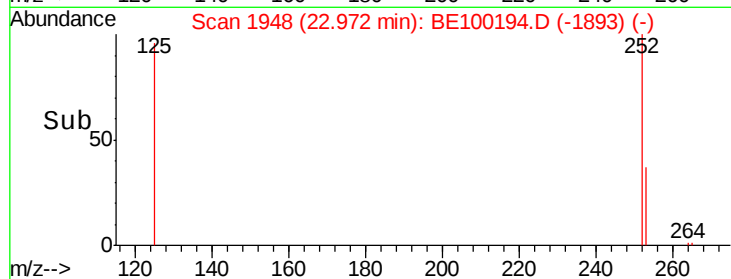
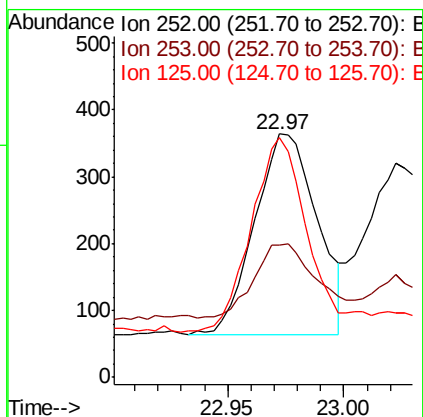
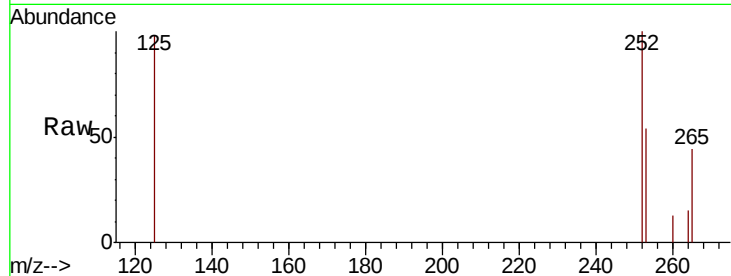
Tgt Ion:252 Resp: 563

Ion Ratio Lower Upper

252 100

253 54.1 19.0 28.4#

125 98.4 6.3 9.5#



#36

Benzo(k)fluoranthene

Concen: 0.021 ng

RT: 23.02 min Scan# 1962

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

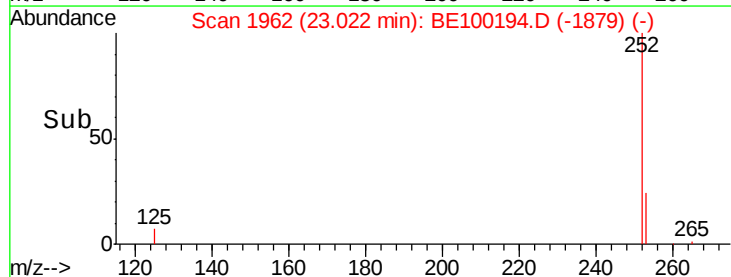
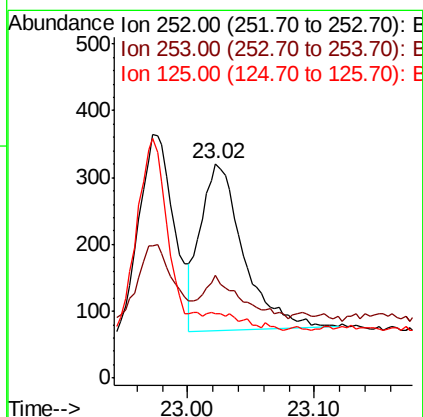
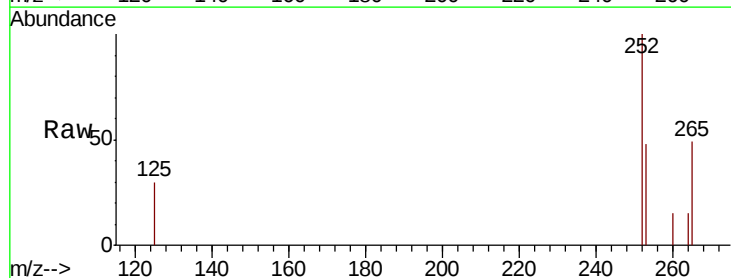
Tgt Ion:252 Resp: 583

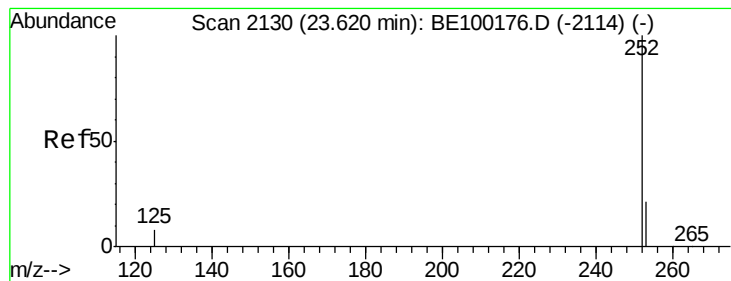
Ion Ratio Lower Upper

252 100

253 47.7 18.4 27.6#

125 30.2 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.025 ng

RT: 23.61 min Scan# 2128

Delta R.T. -0.01 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-190611

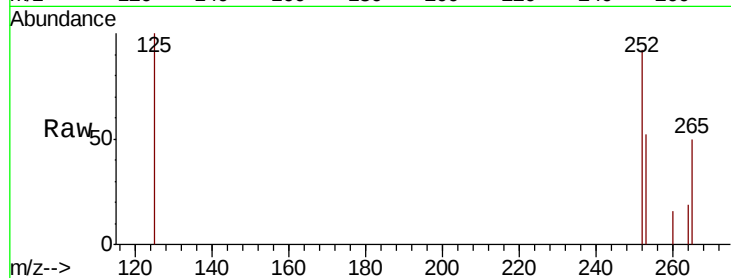
Tgt Ion: 252 Resp: 599

Ion Ratio Lower Upper

252 100

253 56.3 19.2 28.8#

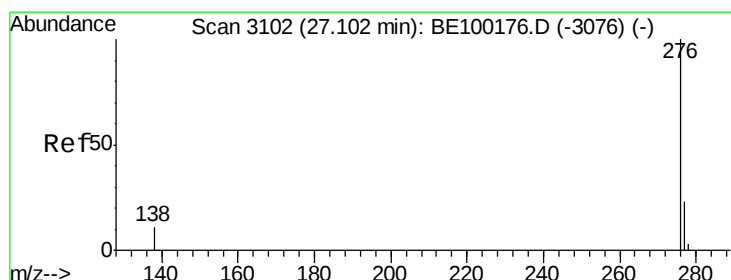
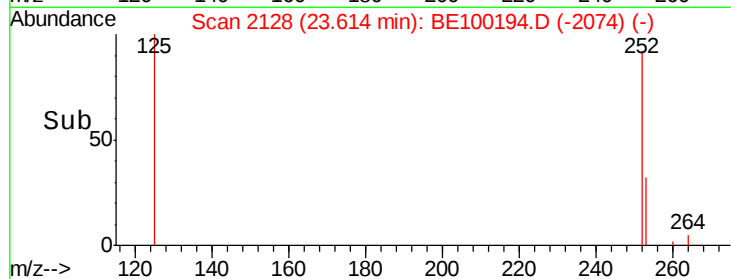
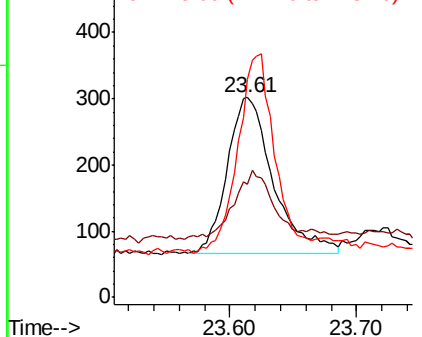
125 108.9 8.2 12.2#



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



#39

Benzo(g,h,i)perylene

Concen: 0.023 ng

RT: 27.10 min Scan# 3101

Delta R.T. -0.00 min

Lab File: BE100194.D

Acq: 26 Jun 2019 14:30

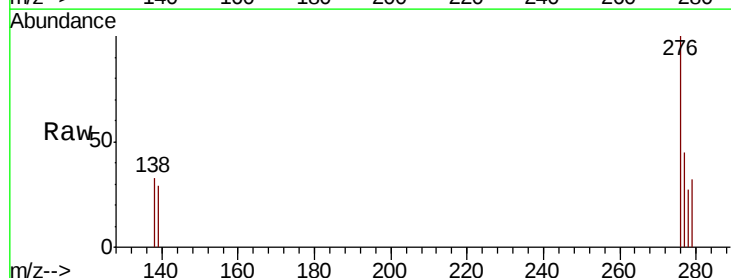
Tgt Ion: 276 Resp: 609

Ion Ratio Lower Upper

276 100

277 45.5 19.8 29.6#

138 32.6 10.2 15.4#



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

