

Data File : BE101093.D
Acq On : 17 Jan 2020 20:11
Operator : JU
Sample : L1167-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PF-3

Quant Time: Jan 17 23:22:03 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 18:36:25 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	1126	0.40	ng	0.00
7) Naphthalene-d8	10.50	136	4660	0.40	ng	0.00
13) Acenaphthene-d10	14.36	164	4241	0.40	ng	0.00
19) Phenanthrene-d10	17.10	188	14937	0.40	ng	0.00
27) Chrysene-d12	21.27	240	24880	0.40	ng	-0.01
34) Perylene-d12	23.68	264	24948	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.33	112	1441	0.57	ng	0.00
5) Phenol-d6	6.90	99	1860	0.58	ng	-0.02
8) Nitrobenzene-d5	8.87	82	1360	0.41	ng	0.00
11) 2-Methylnaphthalene-d10	12.09	152	3638	0.41	ng	-0.01
14) 2,4,6-Tribromophenol	15.85	330	439	0.37	ng	0.00
15) 2-Fluorobiphenyl	12.99	172	5633	0.35	ng	-0.01
25) Fluoranthene-d10	19.12	212	109679	0.53	ng	-0.01
29) Terphenyl-d14	19.72	244	22972	0.38	ng	-0.01

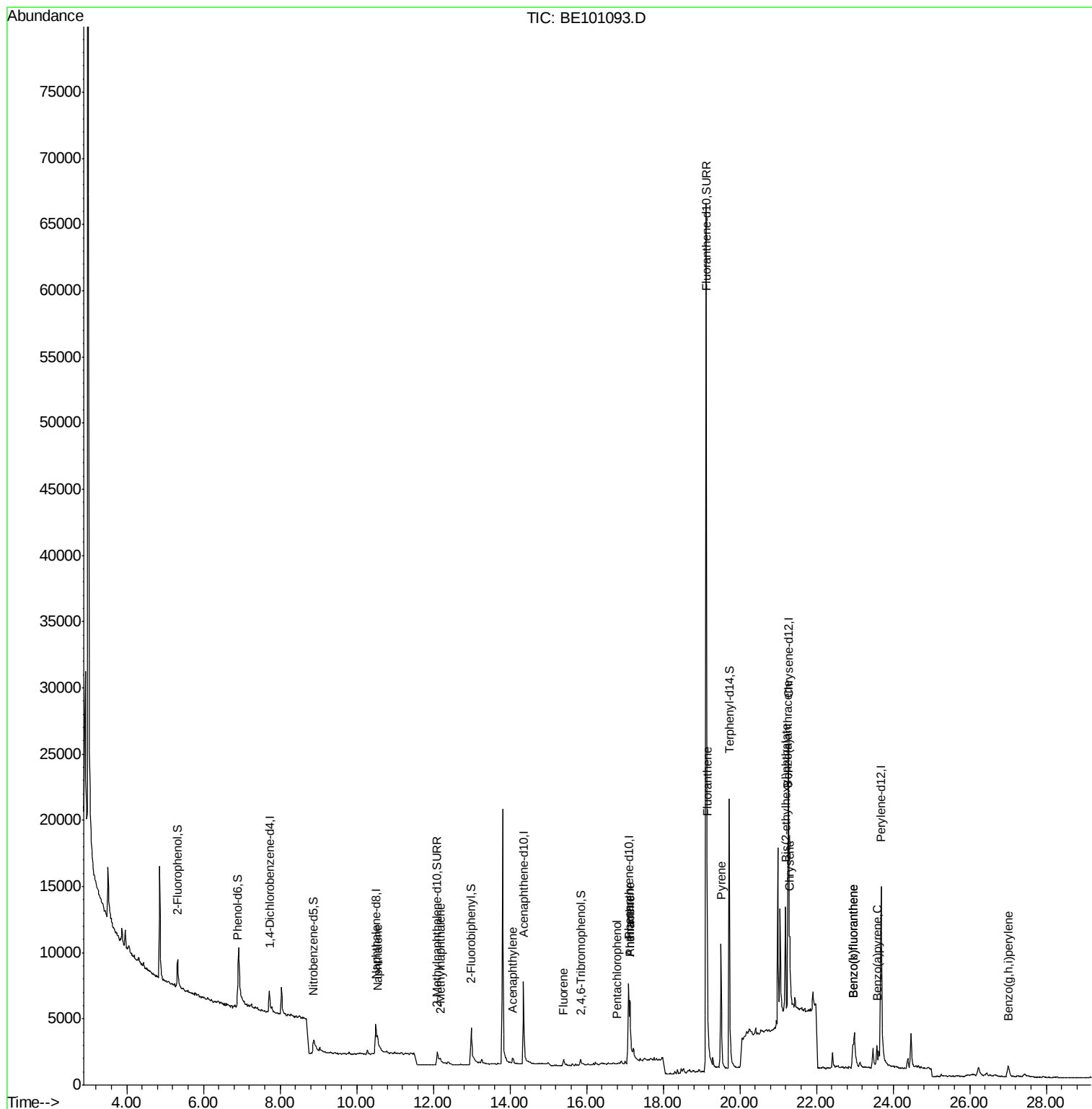
Target Compounds				Qvalue		
9) Naphthalene	10.55	128	2822	0.055	ng	# 87
12) 2-Methylnaphthalene	12.18	142	392	0.050	ng	# 75
16) Acenaphthylene	14.07	152	807	0.047	ng	# 89
18) Fluorene	15.39	166	673	0.043	ng	97
22) Pentachlorophenol	16.79	266	22	0.258	ng	# 78
23) Phenanthrene	17.14	178	6579	0.161	ng	99
24) Anthracene	17.14	178	6579	0.171	ng	99
26) Fluoranthene	19.15	202	7113	0.139	ng	99
28) Pyrene	19.51	202	10415	0.112	ng	99
30) Benzo(a)anthracene	21.26	228	4888	0.069	ng	# 79
31) Chrysene	21.31	228	5178	0.049	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.20	149	12081	0.102	ng	100
35) Benzo(b)fluoranthene	22.95	252	3573	0.051	ng	# 63
36) Benzo(k)fluoranthene	22.95	252	3573	0.035	ng	# 65
37) Benzo(a)pyrene	23.58	252	3164	0.047	ng	# 62
39) Benzo(g,h,i)perylene	27.00	276	2327	0.030	ng	# 75

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.73 min Scan# 422

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

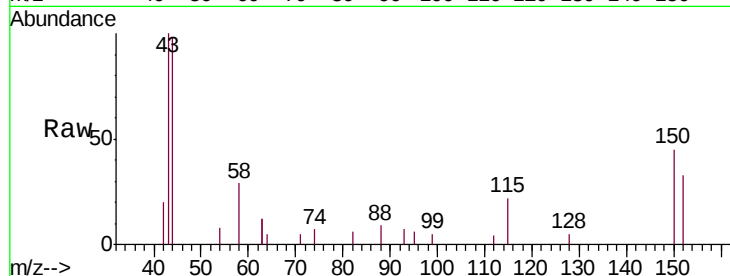
Tgt Ion:152 Resp: 1126

Ion Ratio Lower Upper

152 100

150 138.6 120.3 180.5

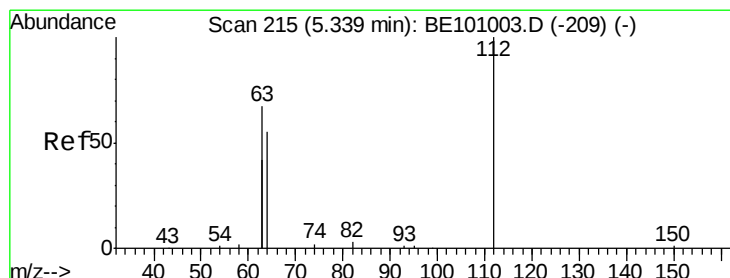
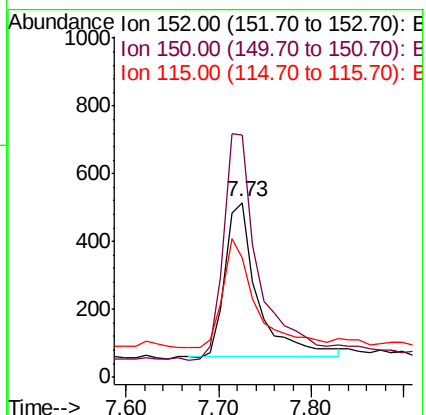
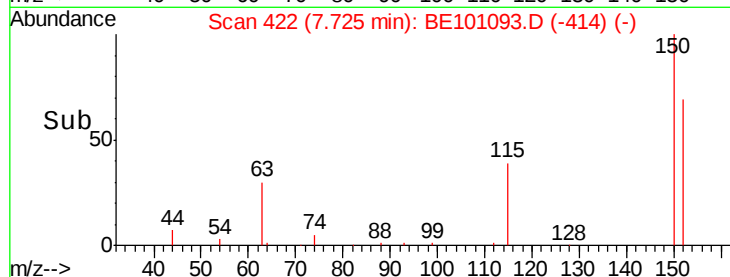
115 68.5 51.7 77.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.569 ng

RT: 5.33 min Scan# 214

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

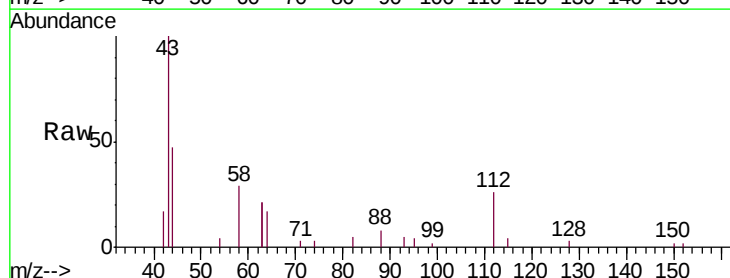
Tgt Ion:112 Resp: 1441

Ion Ratio Lower Upper

112 100

64 69.3 53.6 80.4

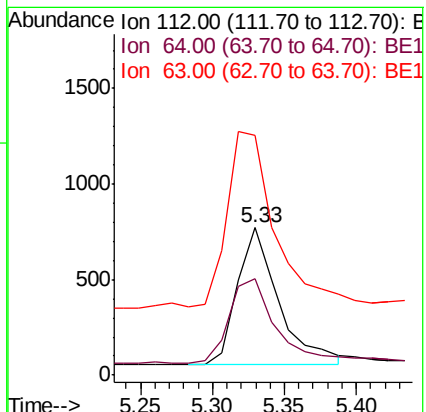
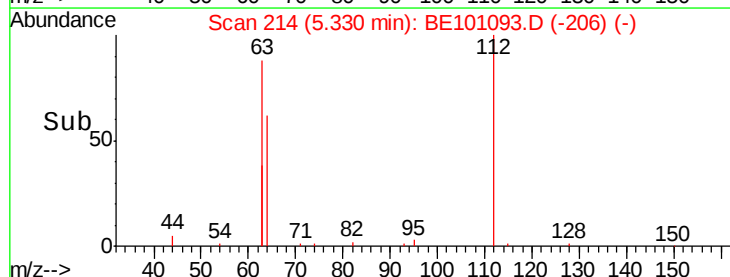
63 144.1 114.6 172.0

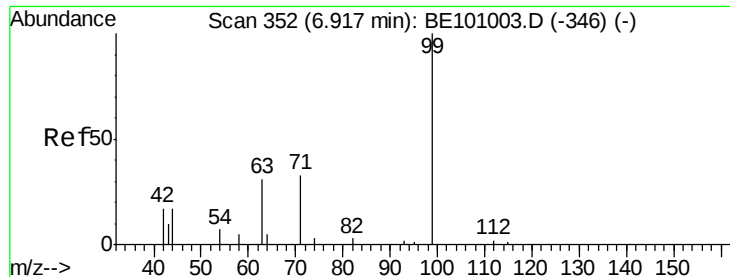


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.580 ng

RT: 6.90 min Scan# 350

Delta R.T. -0.02 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

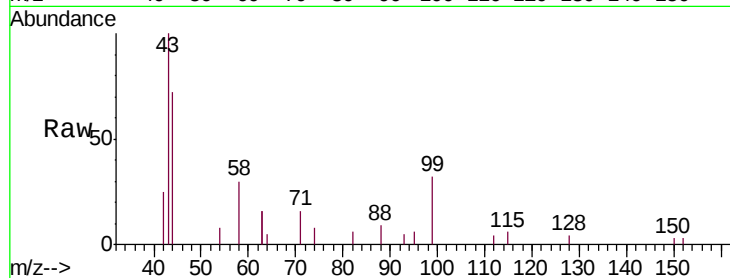
Tgt Ion: 99 Resp: 1860

Ion Ratio Lower Upper

99 100

42 39.1 18.3 27.5#

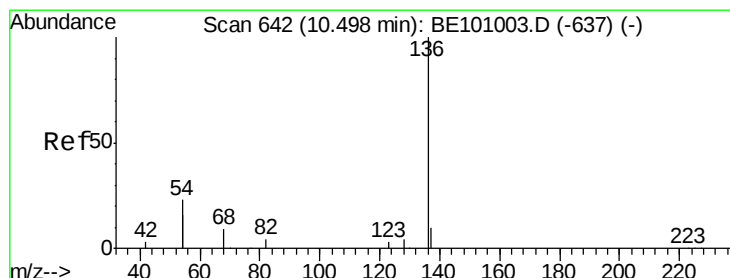
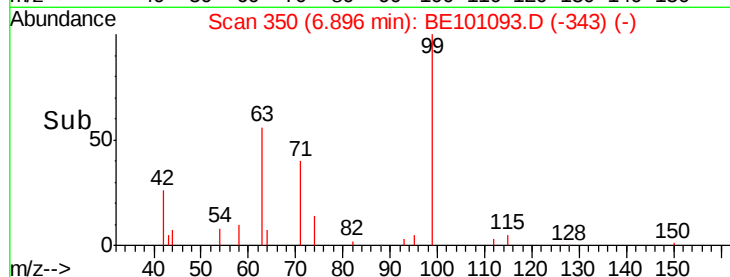
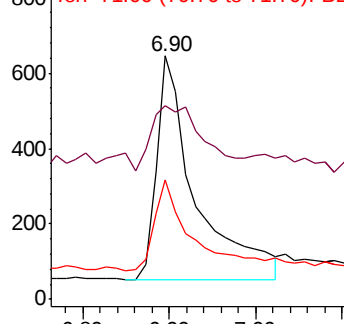
71 41.1 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Tgt Ion: 136 Resp: 4660

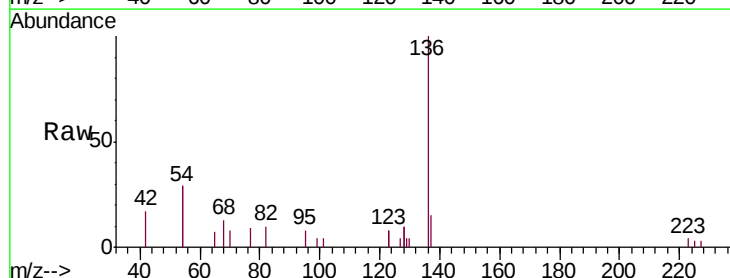
Ion Ratio Lower Upper

136 100

137 14.8 9.3 13.9#

54 57.3 36.8 55.2#

68 12.7 8.4 12.6#

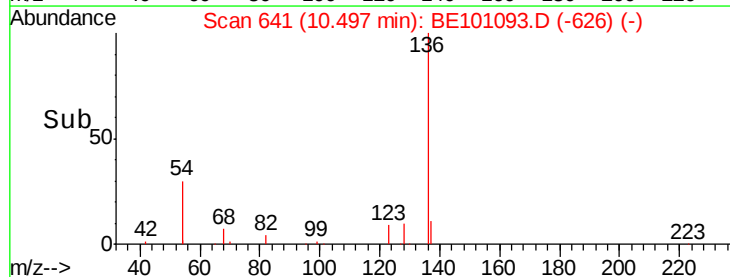
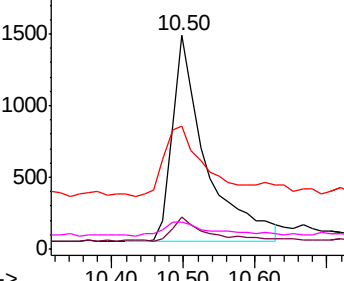


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.408 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampled :

PF-3

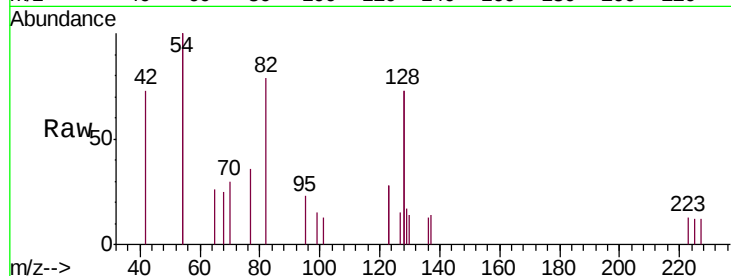
Tgt Ion: 82 Resp: 1360

Ion Ratio Lower Upper

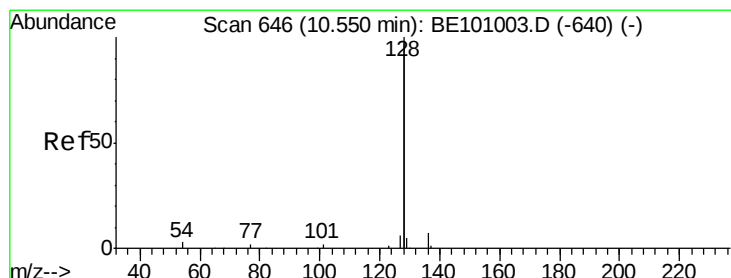
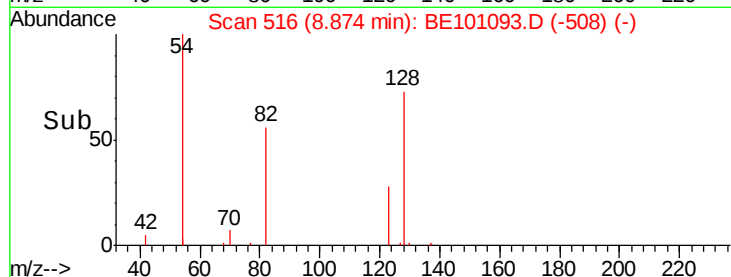
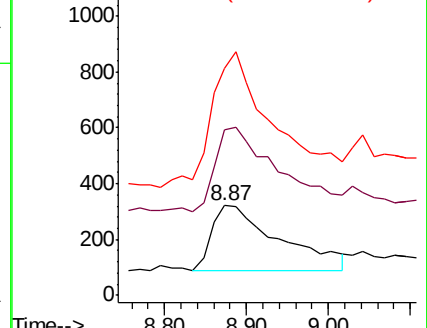
82 100

128 184.5 109.8 164.6#

54 252.8 174.5 261.7



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: 0.055 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

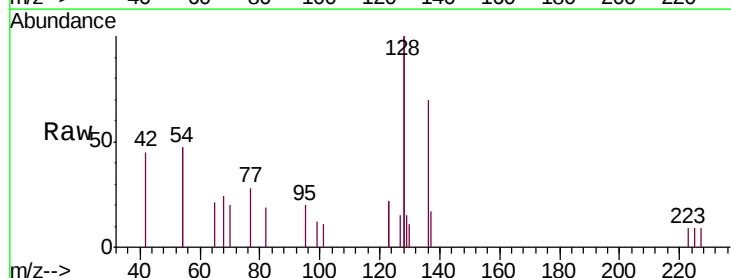
Tgt Ion: 128 Resp: 2822

Ion Ratio Lower Upper

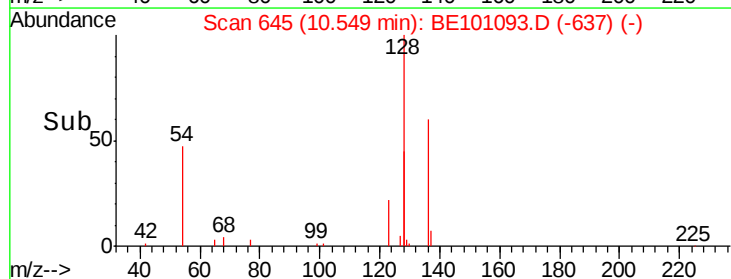
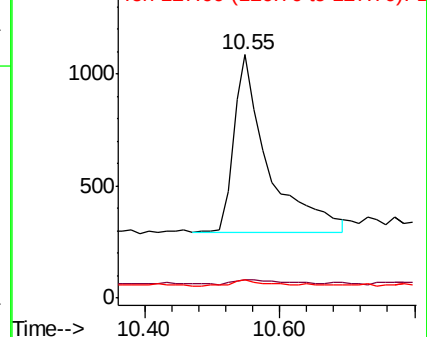
128 100

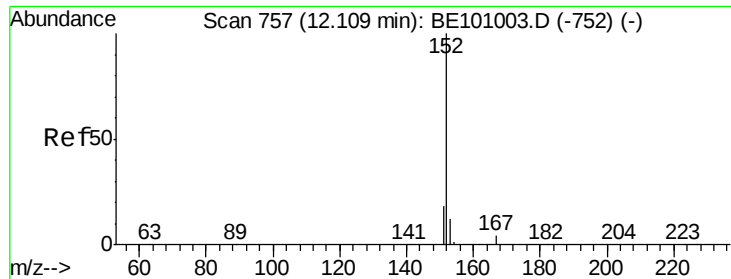
129 7.5 2.3 3.5#

127 7.5 2.7 4.1#



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

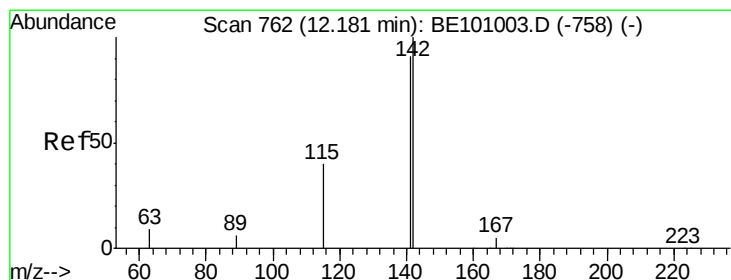
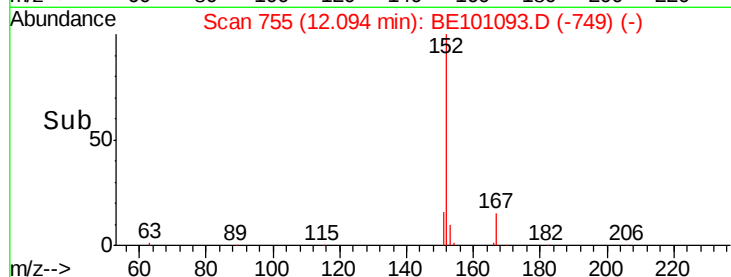
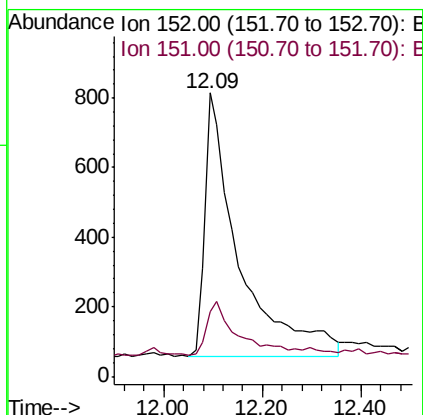
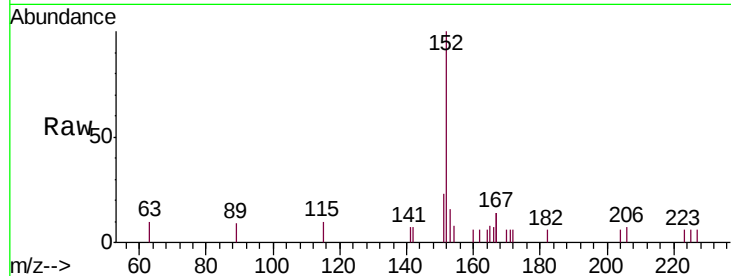




#11
 2-Methylnaphthalene-d10
 Concen: 0.409 ng
 RT: 12.09 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

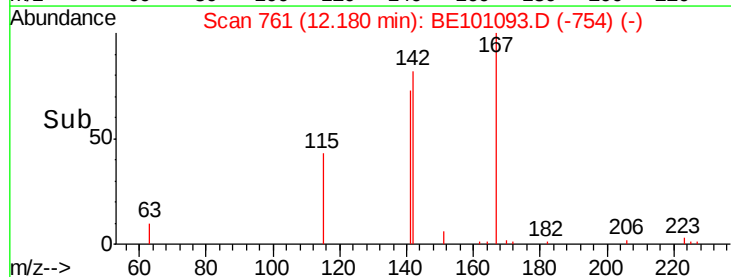
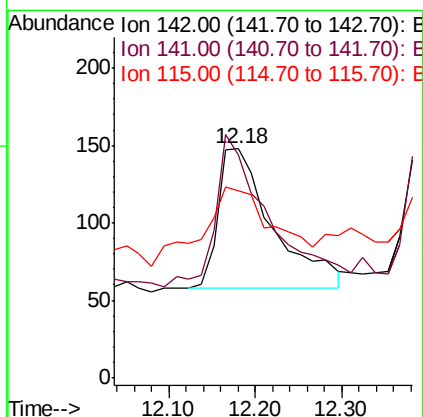
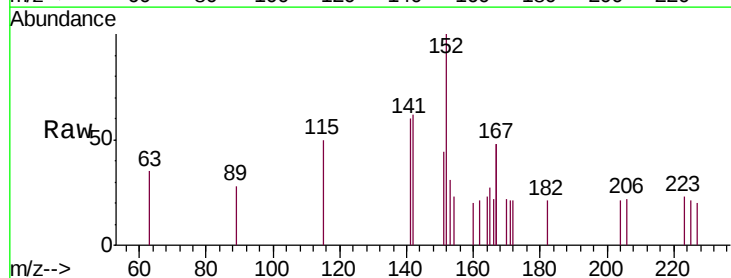
Instrument :
 BNA_E
 ClientSampleId :
 PF-3

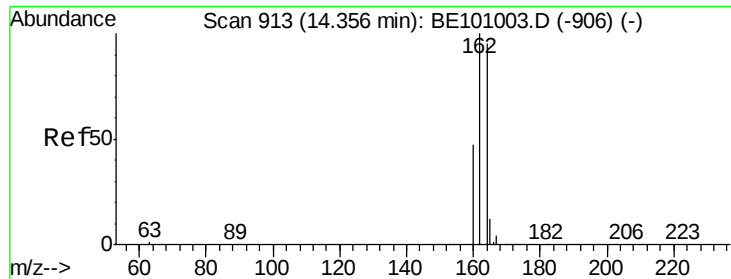
Tgt Ion:152 Resp: 3638
 Ion Ratio Lower Upper
 152 100
 151 18.2 15.0 22.6



#12
 2-Methylnaphthalene
 Concen: 0.050 ng
 RT: 12.18 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

Tgt Ion:142 Resp: 392
 Ion Ratio Lower Upper
 142 100
 141 97.3 72.5 108.7
 115 81.8 33.0 49.6#

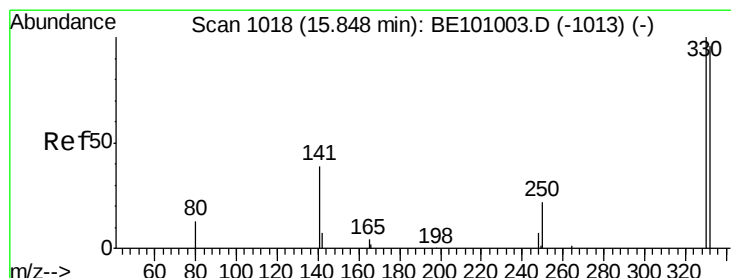
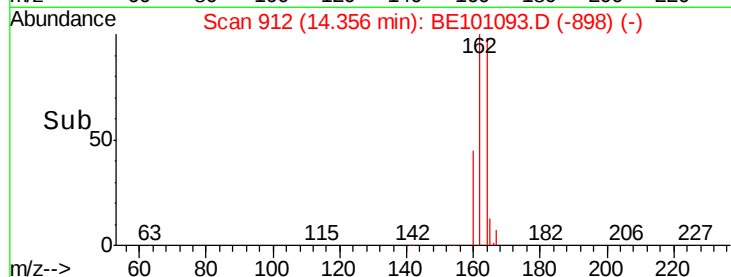
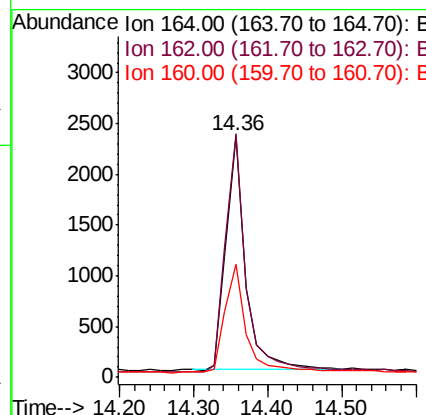
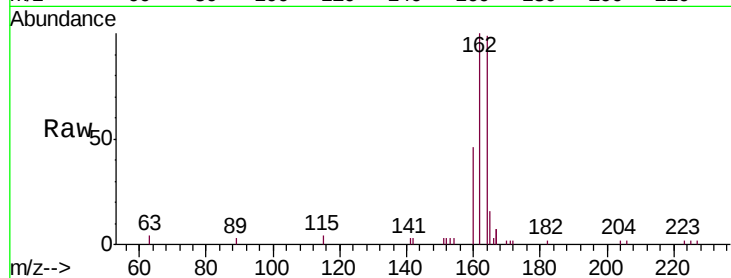




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.36 min Scan# 912
 Delta R.T. -0.00 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

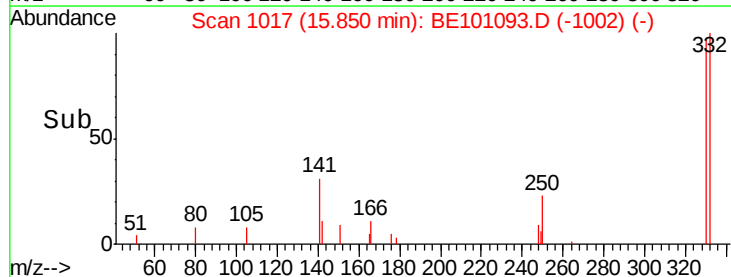
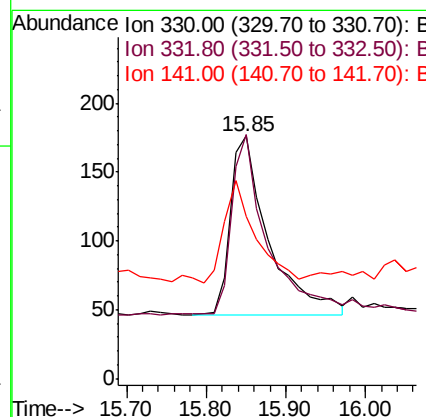
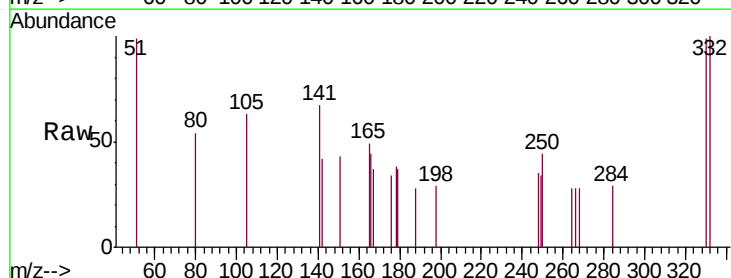
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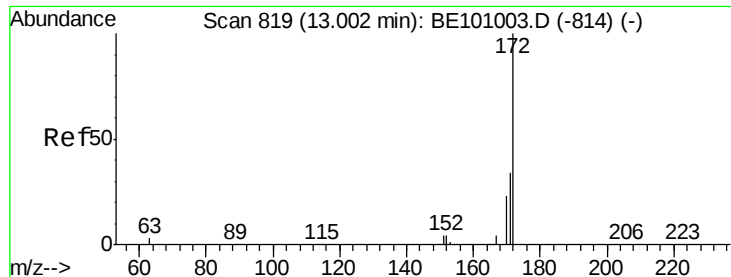
Tgt Ion:164 Resp: 4241
 Ion Ratio Lower Upper
 164 100
 162 100.8 84.1 126.1
 160 46.7 40.4 60.6



#14
 2,4,6-Tribromophenol
 Concen: 0.367 ng
 RT: 15.85 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

Tgt Ion:330 Resp: 439
 Ion Ratio Lower Upper
 330 100
 332 98.2 78.4 117.6
 141 46.9 37.0 55.4

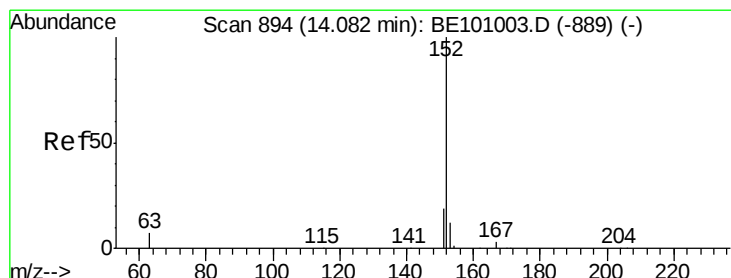
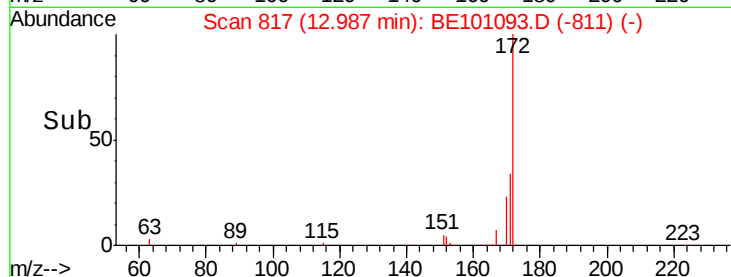
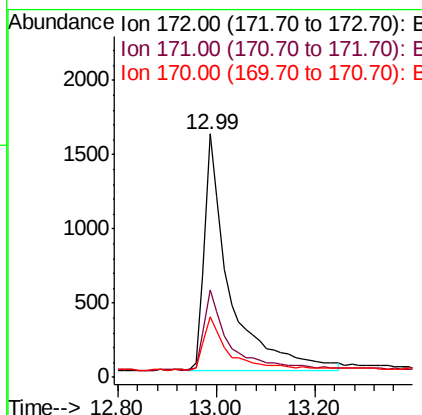
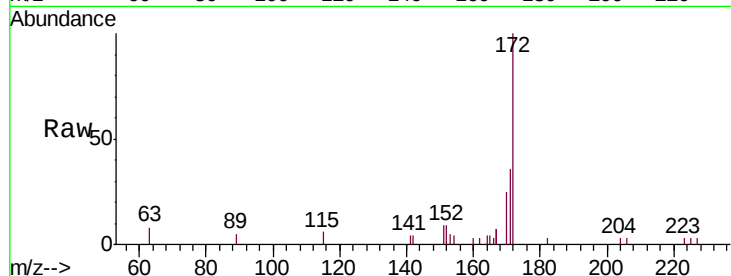




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.99 min Scan# 817
Delta R.T. -0.01 min
Lab File: BE101093.D
Acq: 17 Jan 2020 20:11

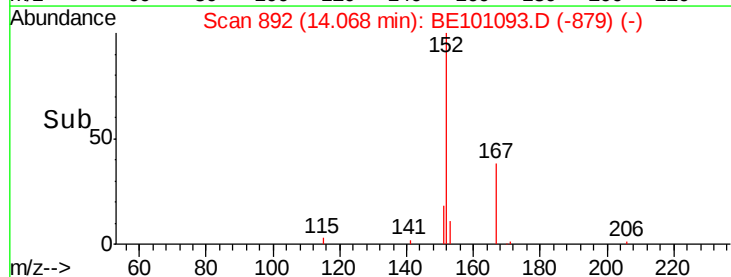
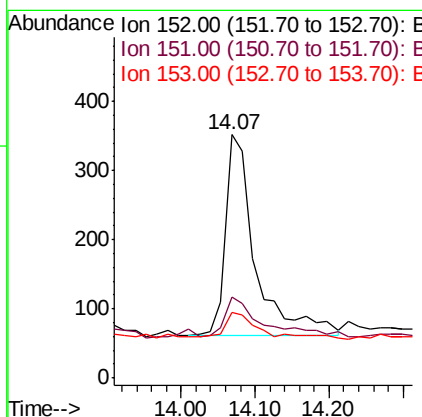
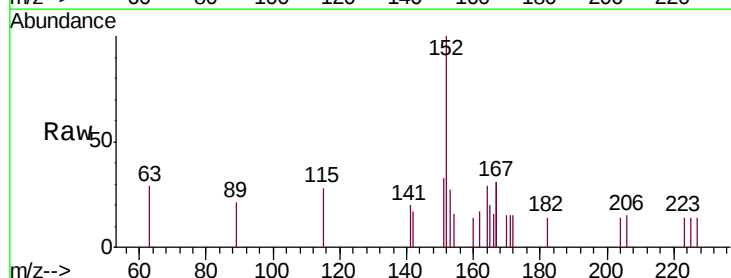
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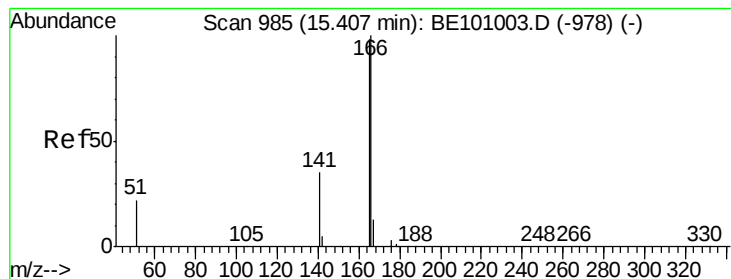
Tgt Ion:172 Resp: 5633
Ion Ratio Lower Upper
172 100
171 35.9 28.2 42.2
170 25.1 18.9 28.3



#16
Acenaphthylene
Concen: 0.047 ng
RT: 14.07 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE101093.D
Acq: 17 Jan 2020 20:11

Tgt Ion:152 Resp: 807
Ion Ratio Lower Upper
152 100
151 25.4 15.5 23.3#
153 16.4 10.4 15.6#





#18

Fluorene

Concen: 0.043 ng

RT: 15.39 min Scan# 983

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

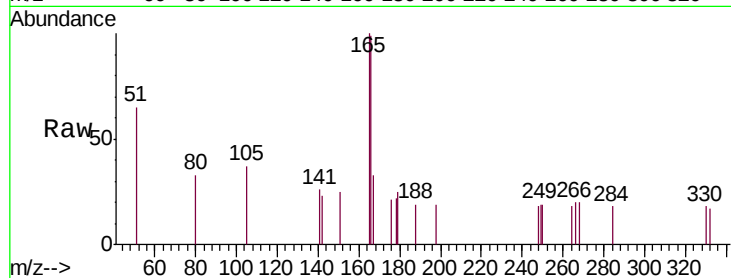
Tgt Ion:166 Resp: 673

Ion Ratio Lower Upper

166 100

165 103.4 79.8 119.8

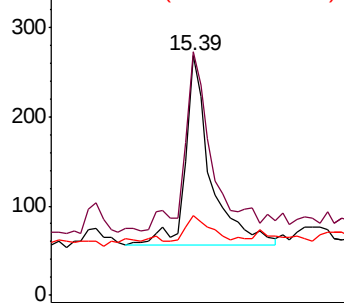
167 14.4 11.0 16.6



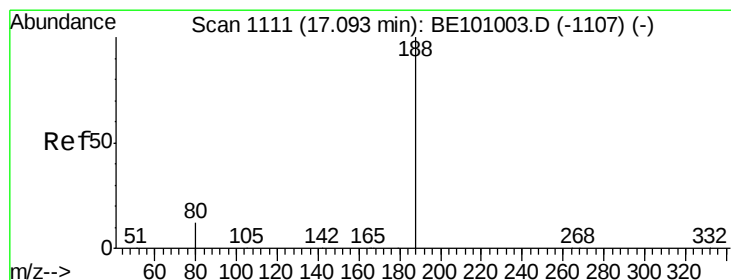
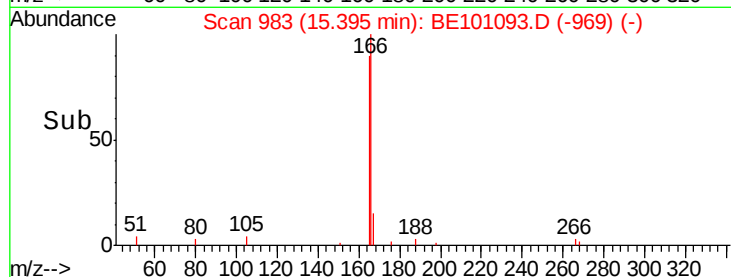
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.10 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

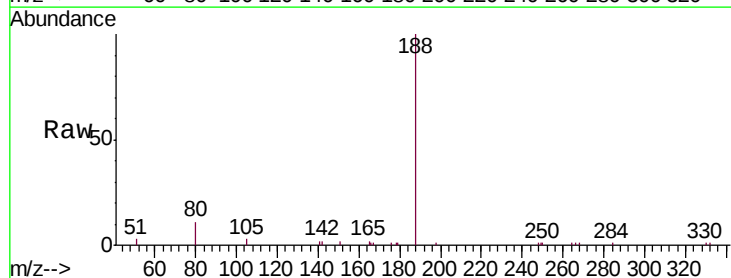
Tgt Ion:188 Resp: 14937

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

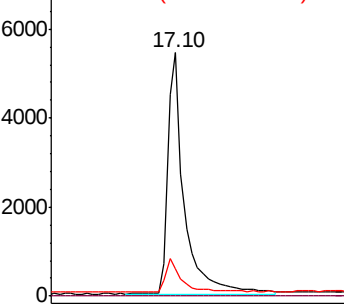
80 11.4 10.8 16.2



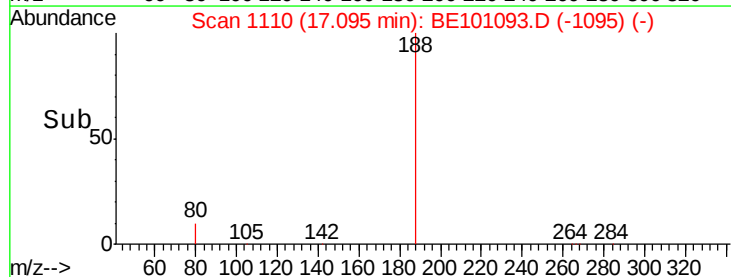
Abundance Ion 188.00 (187.70 to 188.70): E

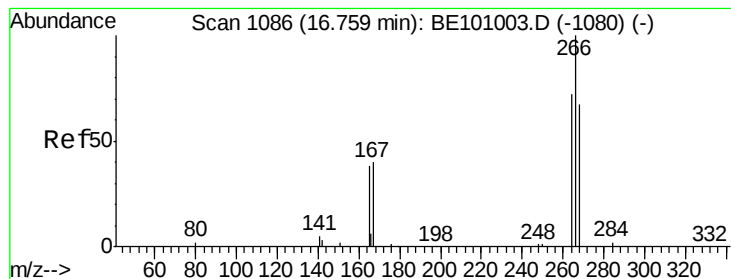
Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



Time-->





#22

Pentachlorophenol

Concen: 0.258 ng

RT: 16.79 min Scan# 1087

Delta R.T. 0.03 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

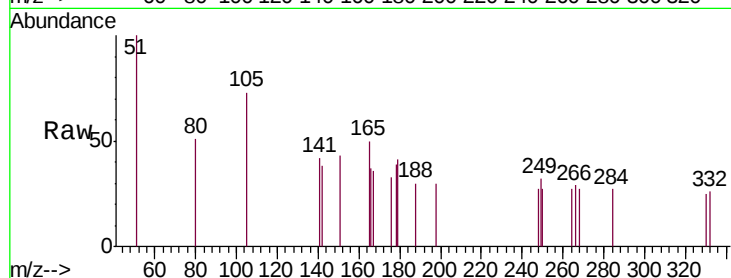
Tgt Ion:266 Resp: 22

Ion Ratio Lower Upper

266 100

264 92.5 61.0 91.4#

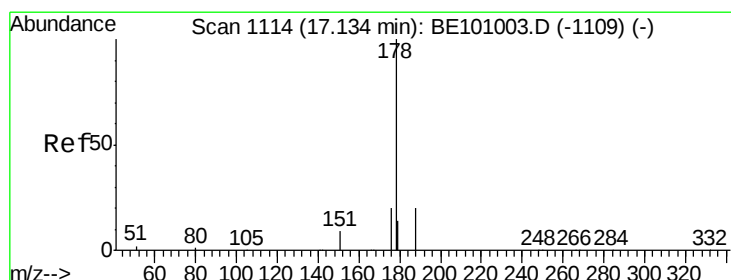
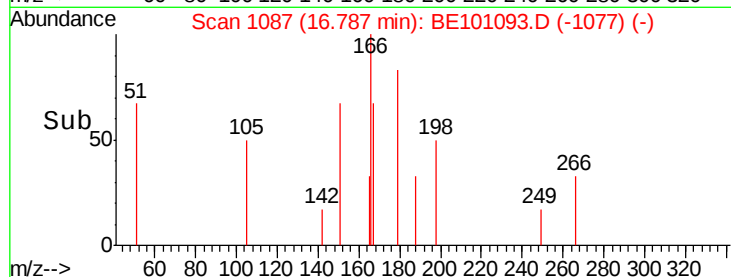
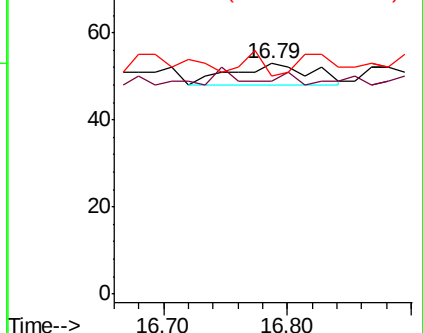
268 94.3 58.5 87.7#



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 0.161 ng

RT: 17.14 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

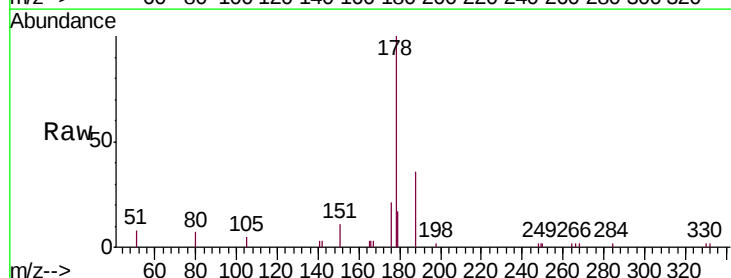
Tgt Ion:178 Resp: 6579

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

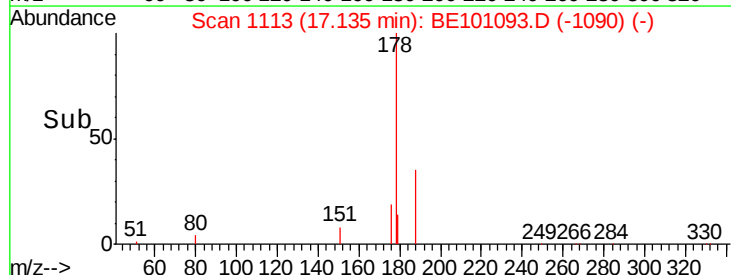
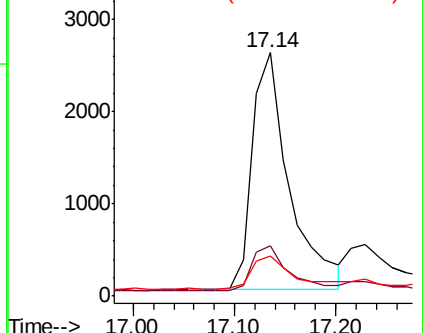
179 15.3 12.0 18.0

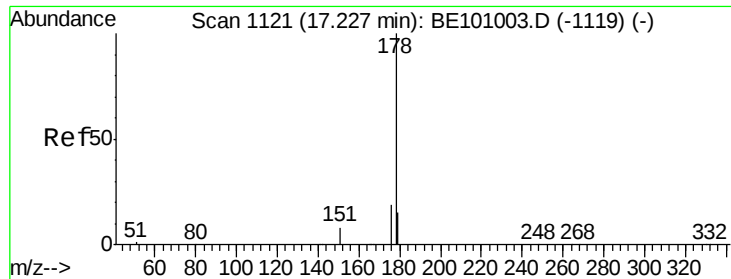


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

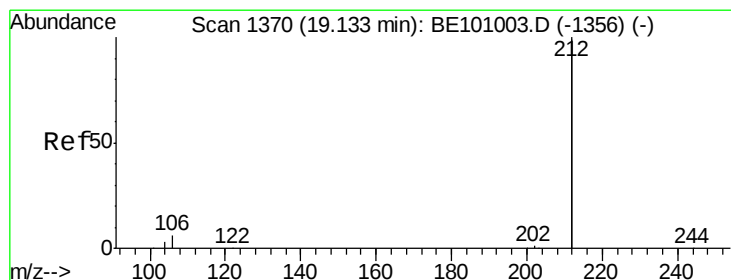
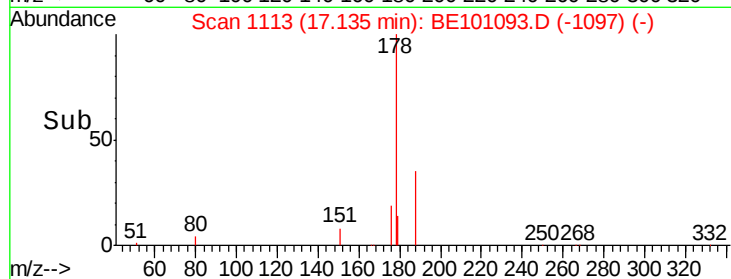
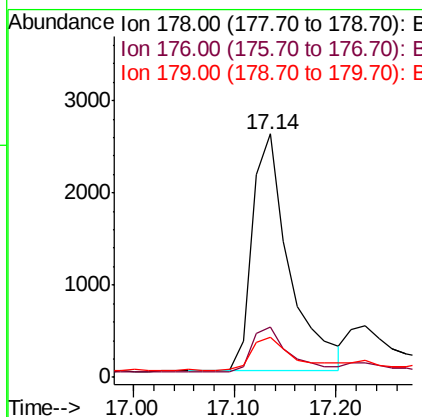
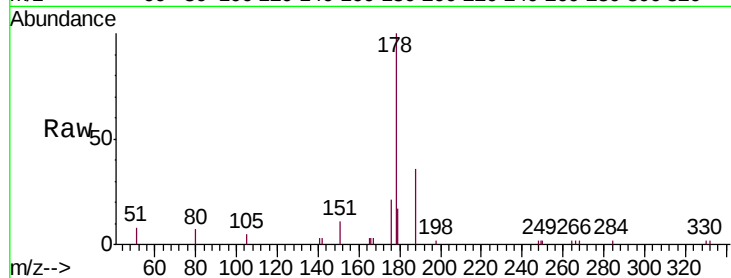




#24
 Anthracene
 Concen: 0.171 ng
 RT: 17.14 min Scan# 1113
 Delta R.T. -0.09 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

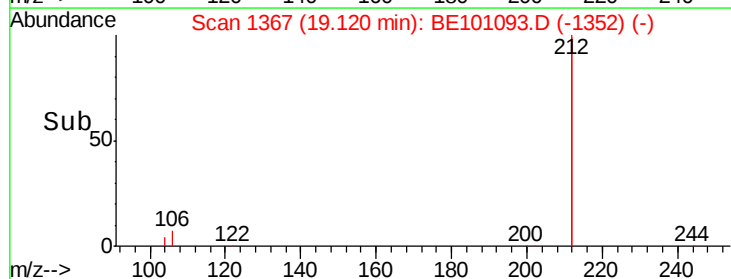
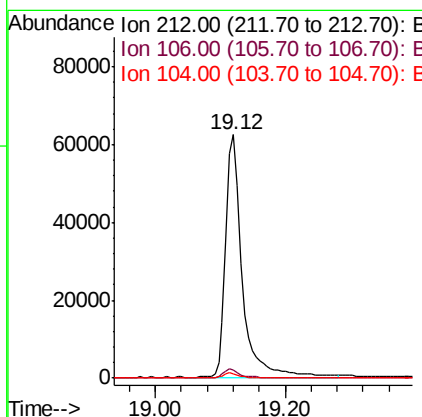
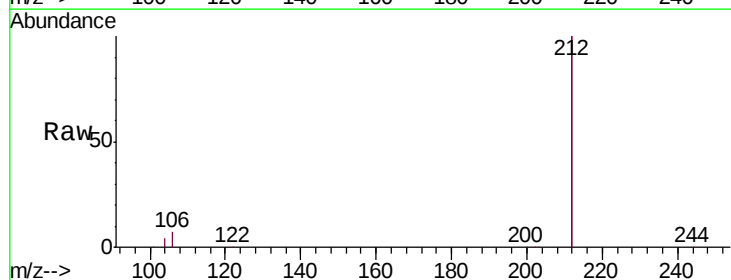
Instrument :
 BNA_E
 ClientSampleId :
 PF-3

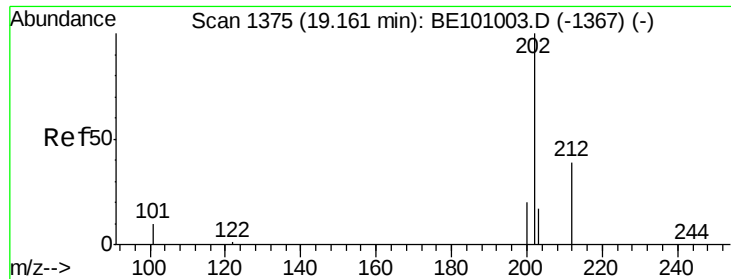
Tgt Ion:178 Resp: 6579
 Ion Ratio Lower Upper
 178 100
 176 19.2 14.8 22.2
 179 15.3 12.4 18.6



#25
 Fluoranthene-d10
 Concen: 0.529 ng
 RT: 19.12 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: BE101093.D
 Acq: 17 Jan 2020 20:11

Tgt Ion:212 Resp: 109679
 Ion Ratio Lower Upper
 212 100
 106 3.5 2.6 3.8
 104 2.0 1.4 2.0

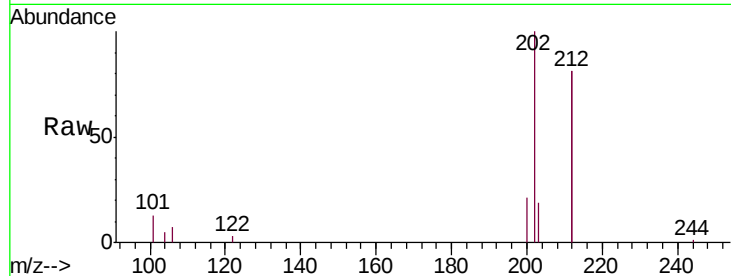




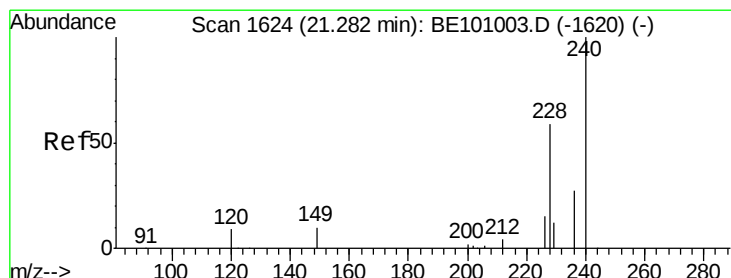
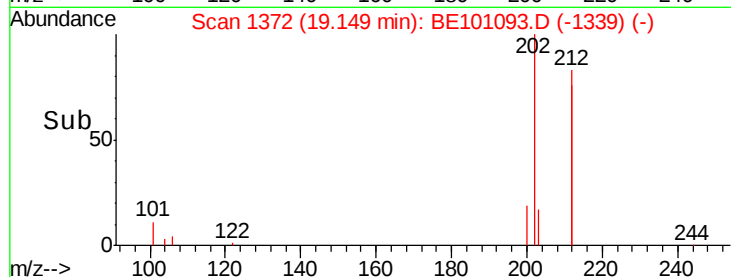
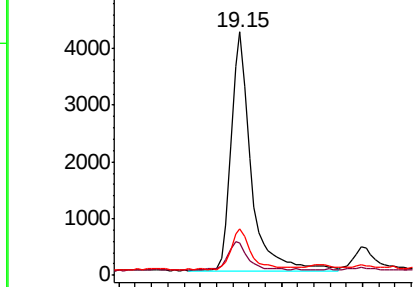
#26
Fluoranthene
Concen: 0.139 ng
RT: 19.15 min Scan# 1372
Delta R.T. -0.01 min
Lab File: BE101093.D
Acq: 17 Jan 2020 20:11

Instrument :
BNA_E
ClientSampleId :
PF-3

Tgt Ion:202 Resp: 7113
Ion Ratio Lower Upper
202 100
101 12.1 9.6 14.4
203 17.5 13.8 20.6

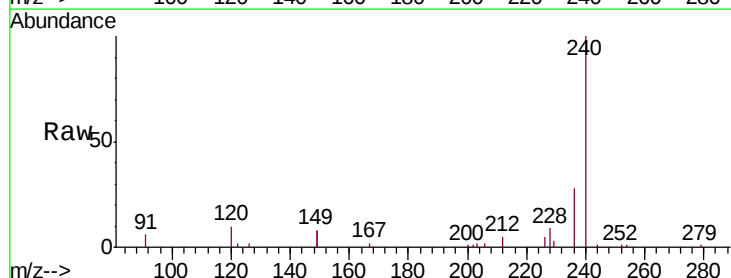


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

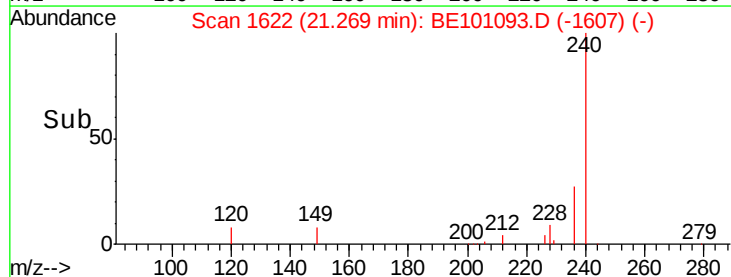
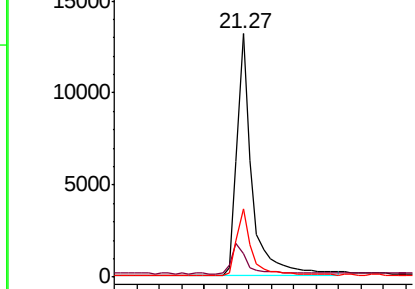


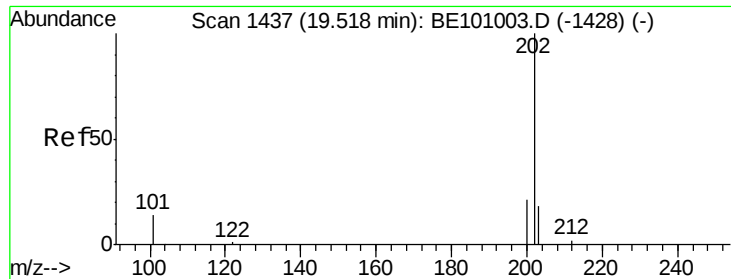
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE101093.D
Acq: 17 Jan 2020 20:11

Tgt Ion:240 Resp: 24880
Ion Ratio Lower Upper
240 100
120 9.7 8.6 13.0
236 27.9 22.2 33.4



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

Pyrene

Concen: 0.112 ng

RT: 19.51 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

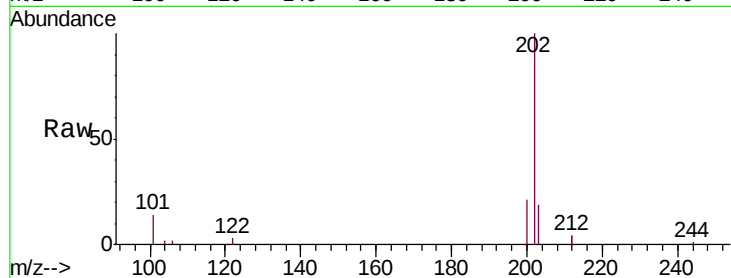
Tgt Ion:202 Resp: 10415

Ion Ratio Lower Upper

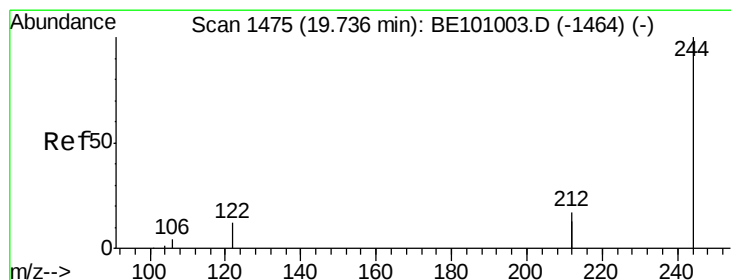
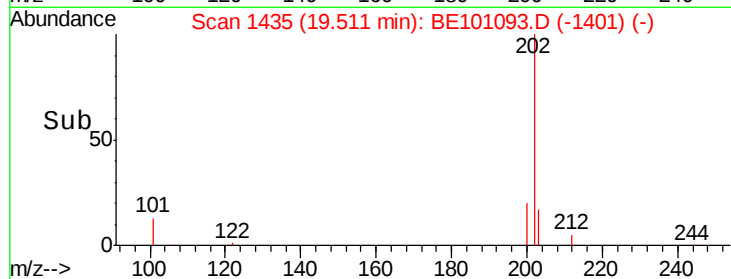
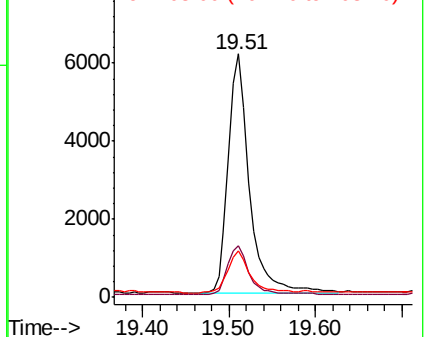
202 100

200 20.7 17.0 25.4

203 18.0 13.8 20.6



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: 0.376 ng

RT: 19.72 min Scan# 1472

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

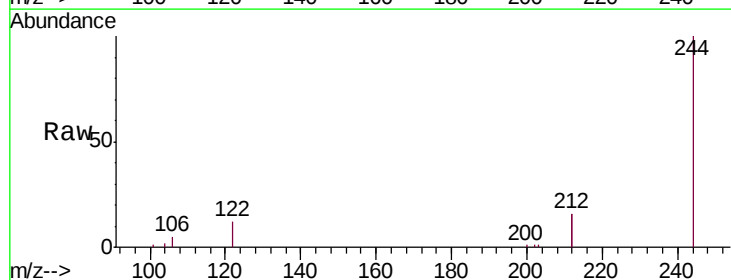
Tgt Ion:244 Resp: 22972

Ion Ratio Lower Upper

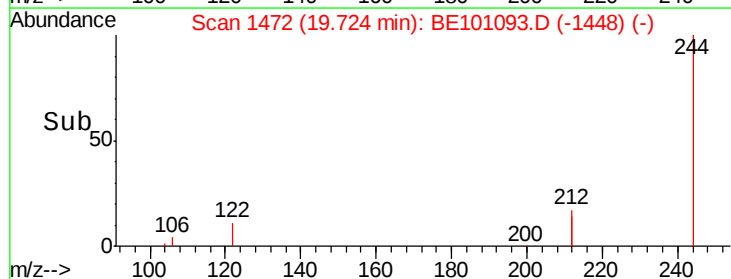
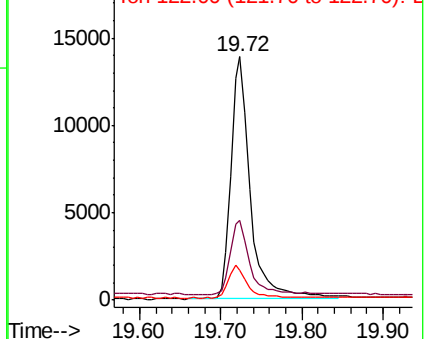
244 100

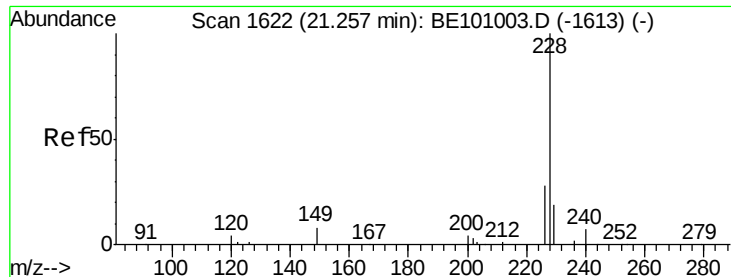
212 33.0 27.2 40.8

122 12.1 9.8 14.8



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





#30

Benzo(a)anthracene

Concen: 0.069 ng

RT: 21.26 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

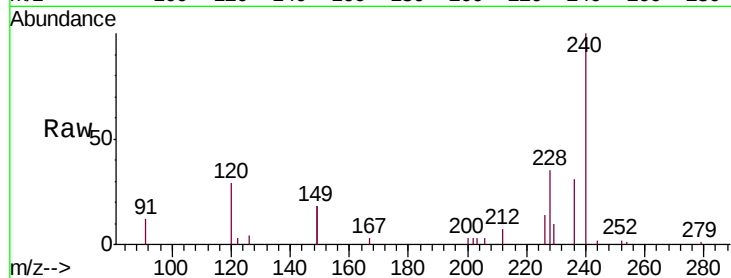
Tgt Ion:228 Resp: 4888

Ion Ratio Lower Upper

228 100

226 40.8 22.7 34.1#

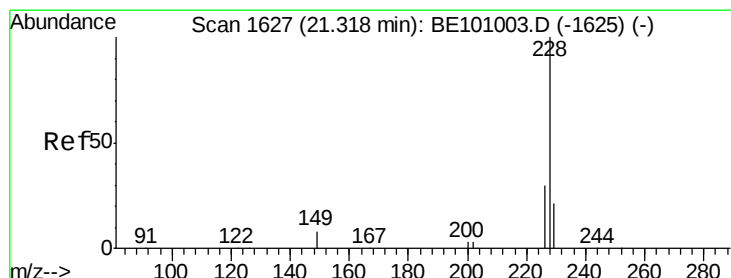
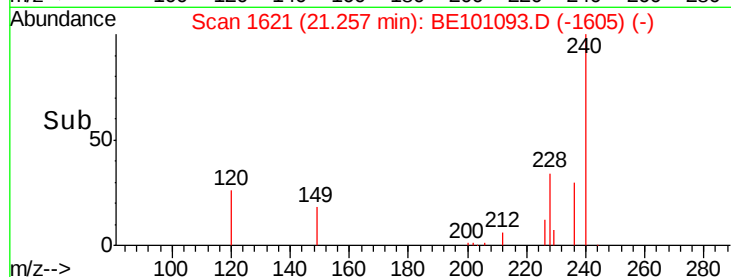
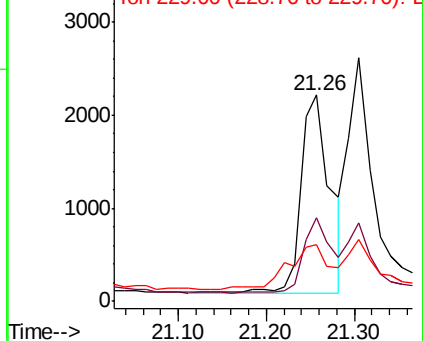
229 27.5 15.5 23.3#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.049 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

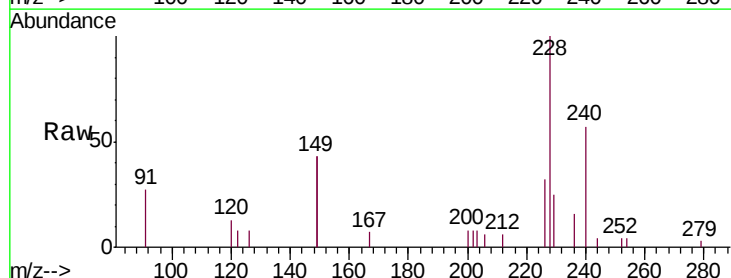
Tgt Ion:228 Resp: 5178

Ion Ratio Lower Upper

228 100

226 32.2 23.5 35.3

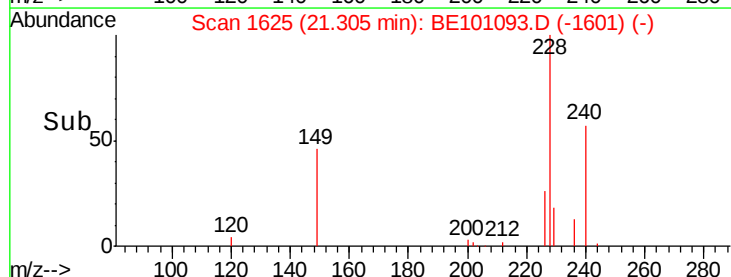
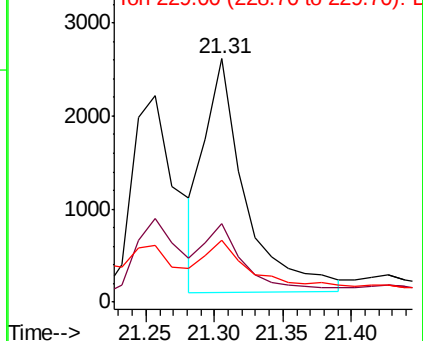
229 25.3 16.7 25.1#

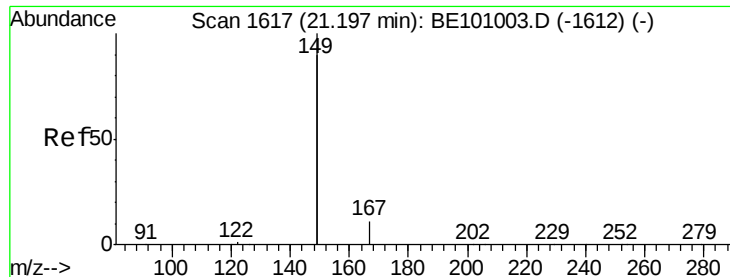


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.102 ng

RT: 21.20 min Scan# 1616

Delta R.T. -0.00 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

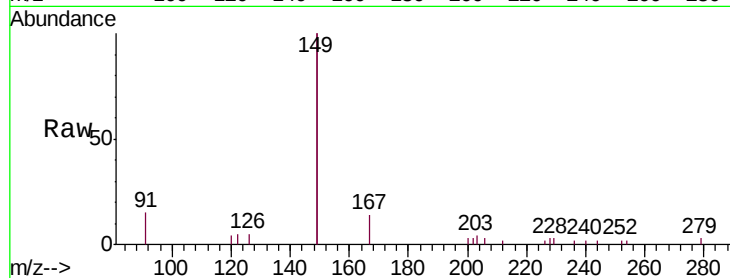
Tgt Ion:149 Resp: 12081

Ion Ratio Lower Upper

149 100

167 6.7 5.2 7.8

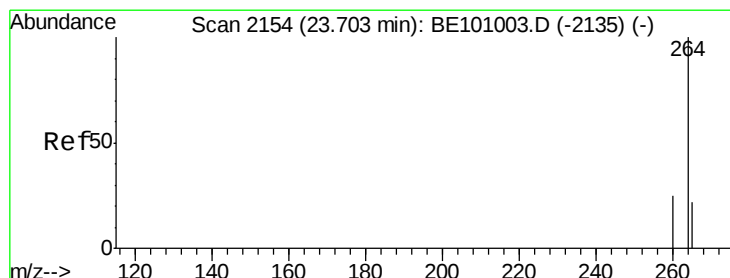
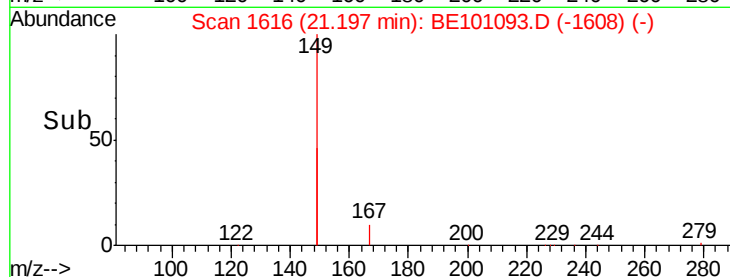
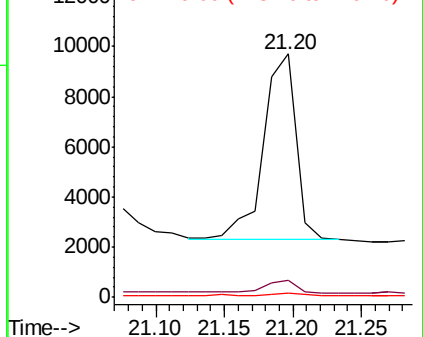
279 0.9 0.8 1.2



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.68 min Scan# 2148

Delta R.T. -0.02 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

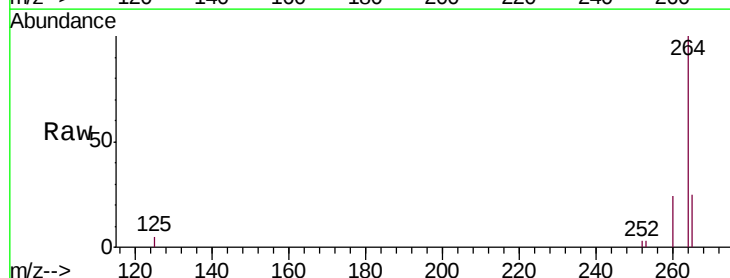
Tgt Ion:264 Resp: 24948

Ion Ratio Lower Upper

264 100

260 24.3 20.3 30.5

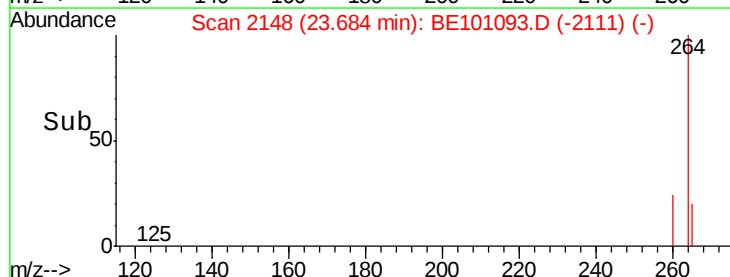
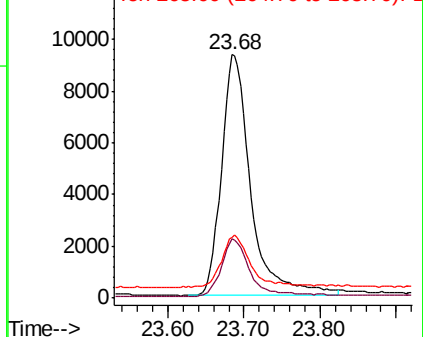
265 24.7 27.0 40.4#

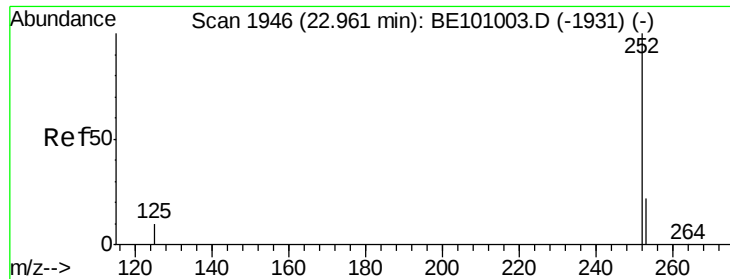


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.051 ng

RT: 22.95 min Scan# 1942

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

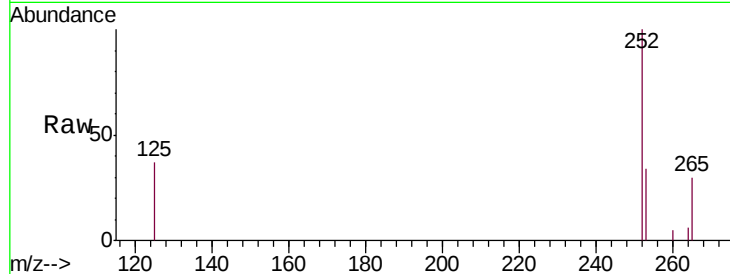
Tgt Ion:252 Resp: 3573

Ion Ratio Lower Upper

252 100

253 34.0 18.5 27.7#

125 36.8 9.5 14.3#

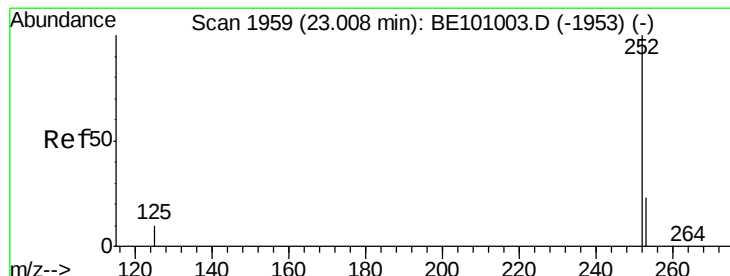
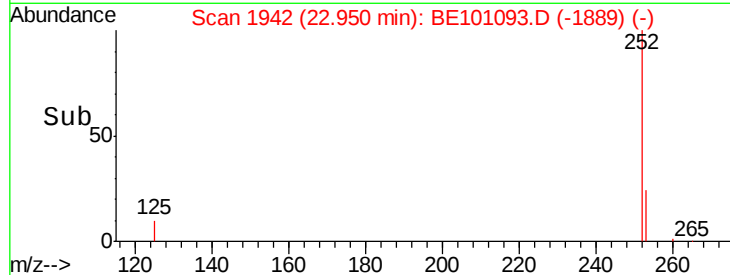
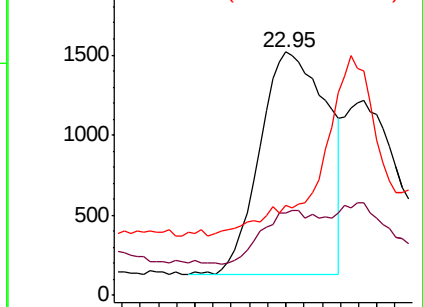


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.035 ng

RT: 22.95 min Scan# 1942

Delta R.T. -0.06 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

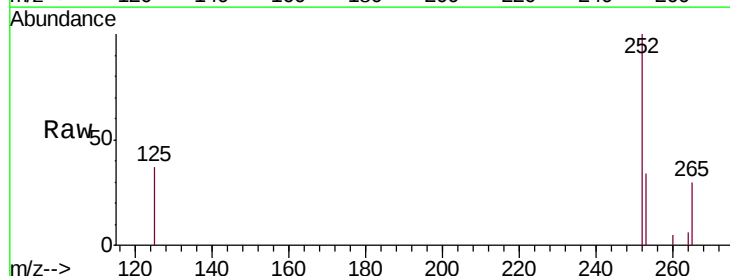
Tgt Ion:252 Resp: 3573

Ion Ratio Lower Upper

252 100

253 34.0 18.9 28.3#

125 36.8 10.1 15.1#

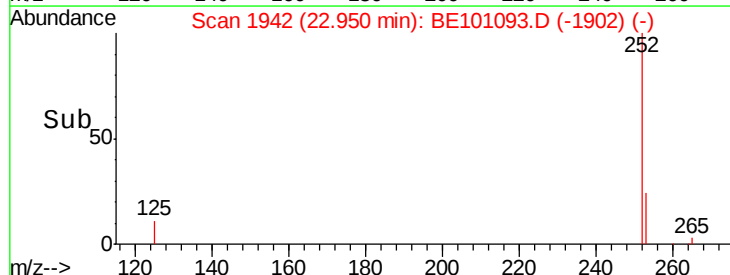
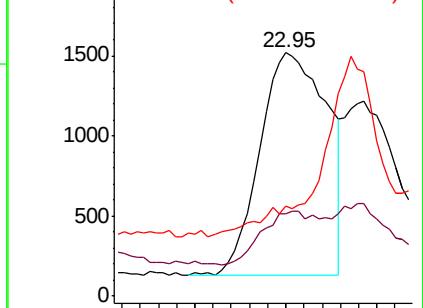


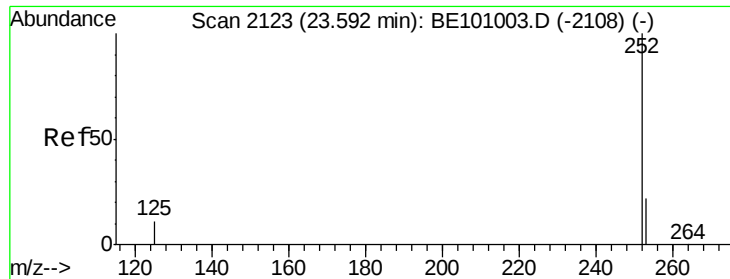
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.047 ng

RT: 23.58 min Scan# 2118

Delta R.T. -0.01 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

Instrument :

BNA_E

ClientSampleId :

PF-3

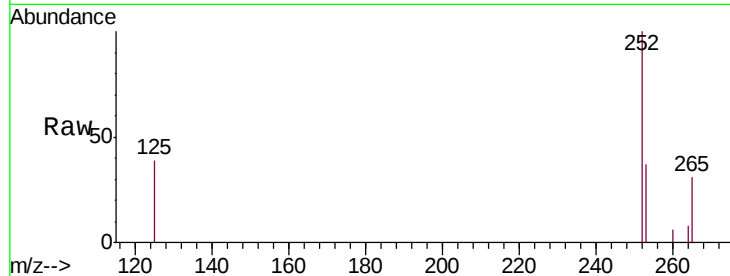
Tgt Ion:252 Resp: 3164

Ion Ratio Lower Upper

252 100

253 36.8 19.4 29.2#

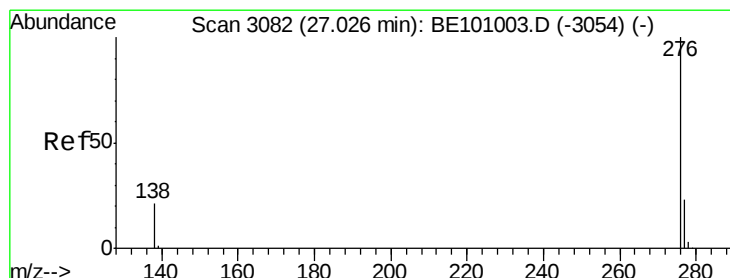
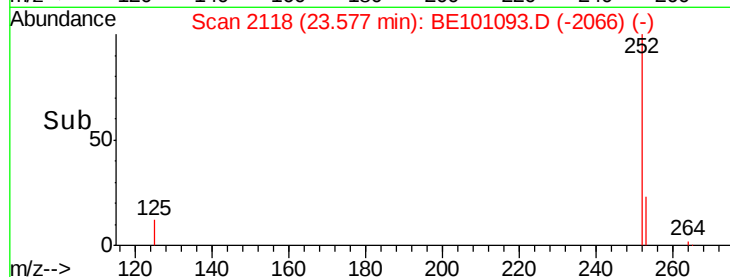
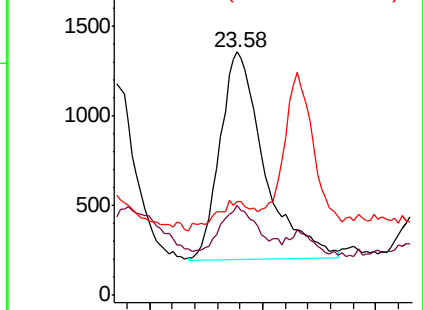
125 38.5 11.8 17.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.030 ng

RT: 27.00 min Scan# 3074

Delta R.T. -0.02 min

Lab File: BE101093.D

Acq: 17 Jan 2020 20:11

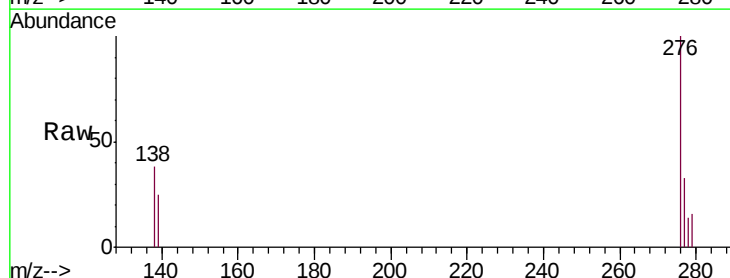
Tgt Ion:276 Resp: 2327

Ion Ratio Lower Upper

276 100

277 33.3 19.4 29.2#

138 38.4 17.9 26.9#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

