

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099449.D
 Acq On : 1 May 2019 5:26
 Operator : JU/SJ
 Sample : K2568-06
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW025-042219

Quant Time: May 01 06:56:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	2508	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	9637	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7773	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	25200	0.40	ng	0.00
27) Chrysene-d12	21.37	240	31765	0.40	ng	0.00
34) Perylene-d12	23.87	264	36607	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2911	0.42	ng	0.00
5) Phenol-d6	6.98	99	4289	0.47	ng	0.00
8) Nitrobenzene-d5	8.96	82	3563	0.39	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	6785	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2252	0.46	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	9957	0.34	ng	-0.02
25) Fluoranthene-d10	19.22	212	118363	0.35	ng	0.00
29) Terphenyl-d14	19.81	244	24532	0.42	ng	0.00

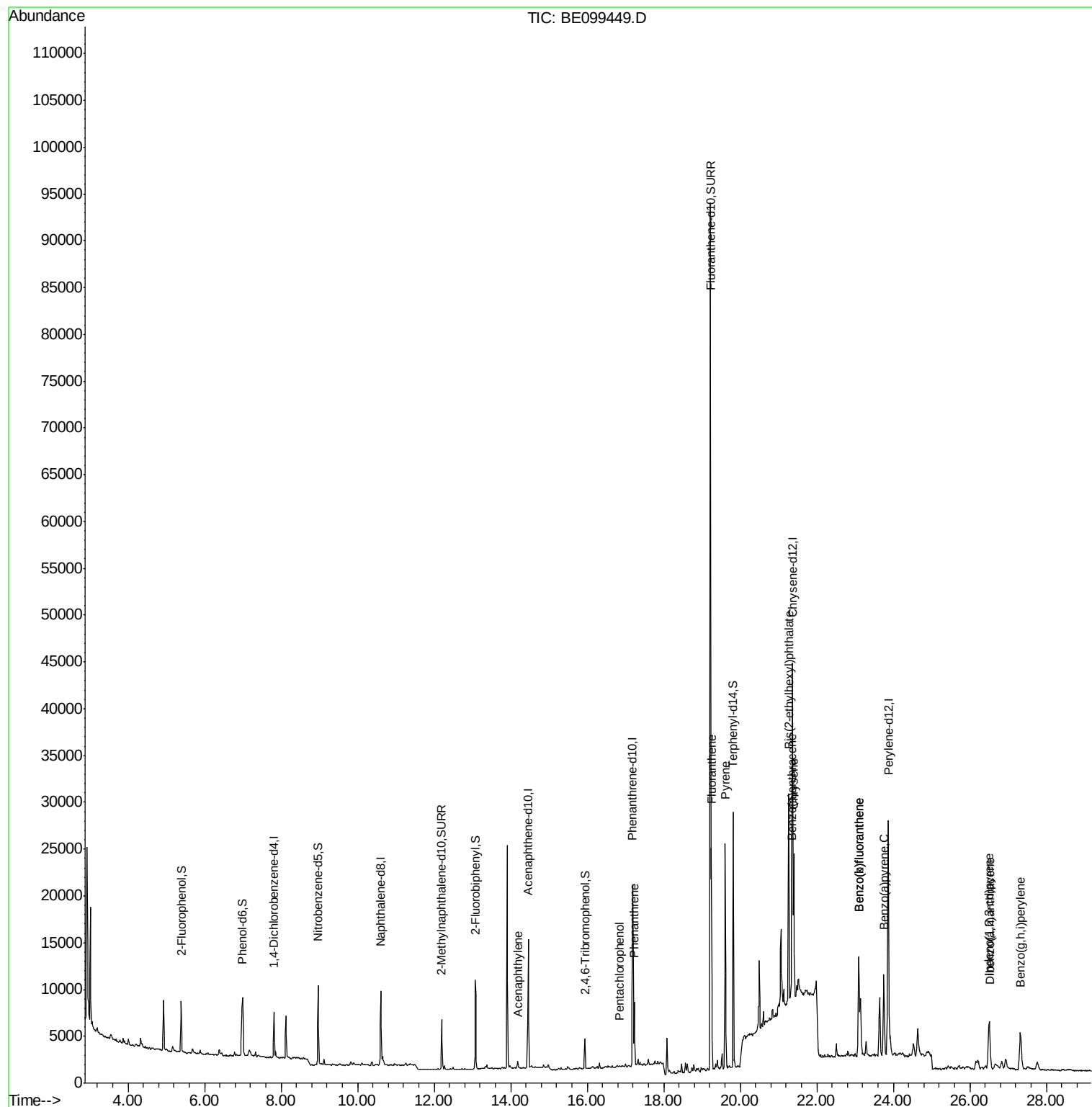
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acenaphthylene	14.18	152	1184	0.031	ng	# 84
22) Pentachlorophenol	16.84	266	63	0.223	ng	# 57
23) Phenanthrene	17.23	178	6776	0.104	ng	97
26) Fluoranthene	19.25	202	20557	0.211	ng	99
28) Pyrene	19.61	202	22071	0.267	ng	96
30) Benzo(a)anthracene	21.34	228	11276	0.111	ng	# 89
31) Chrysene	21.40	228	14980	0.151	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.27	149	30507	0.142	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.51	276	9976	0.085	ng	97
35) Benzo(b)fluoranthene	23.09	252	18635	0.177	ng	# 72
36) Benzo(k)fluoranthene	23.09	252	18635	0.183	ng	# 73
37) Benzo(a)pyrene	23.75	252	12105	0.121	ng	# 72
38) Dibenzo(a,h)anthracene	26.52	278	2485	0.024	ng	# 24
39) Benzo(g,h,i)perylene	27.33	276	10300	0.101	ng	# 87

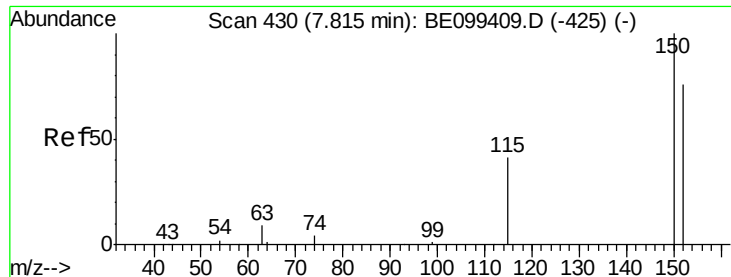
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

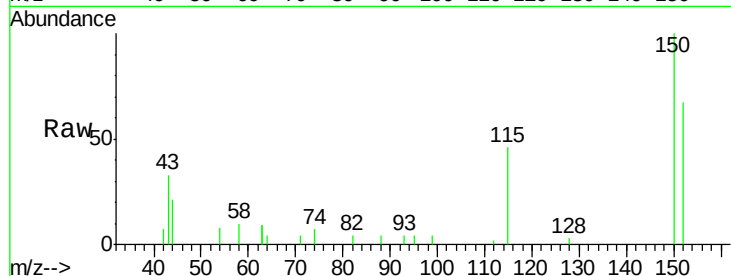
Tot Ion:152 Resp: 2508

Ion Ratio Lower Upper

152 100

150 150.2 104.8 157.2

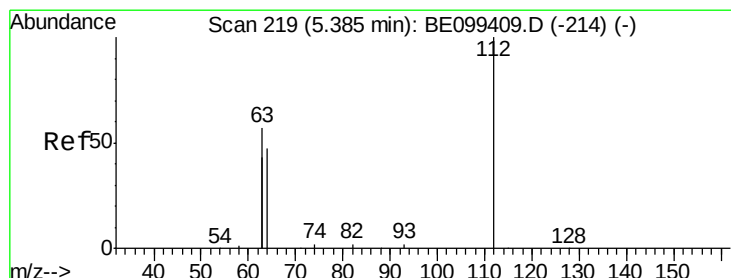
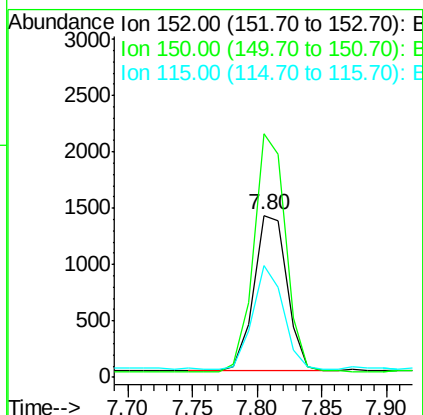
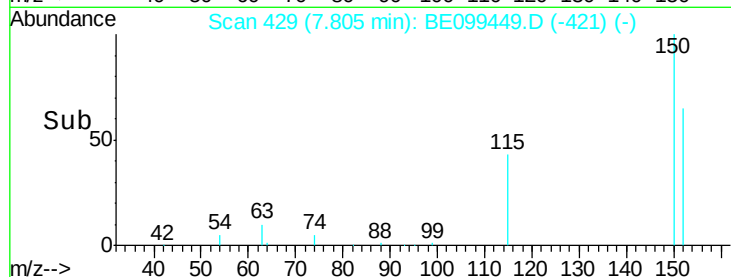
115 68.9 46.6 69.8



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: 0.420 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

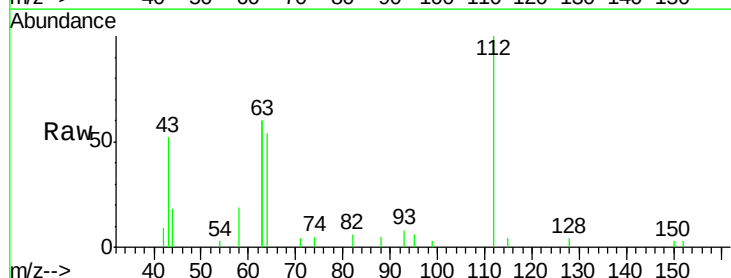
Tgt Ion:112 Resp: 2911

Ion Ratio Lower Upper

112 100

64 57.0 47.4 71.0

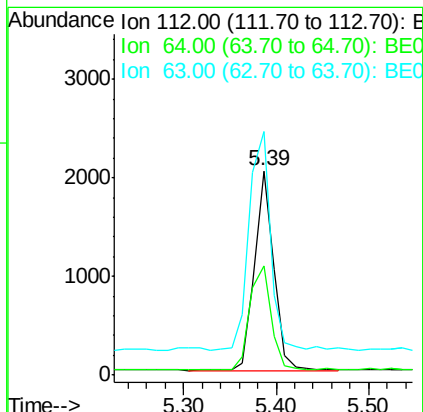
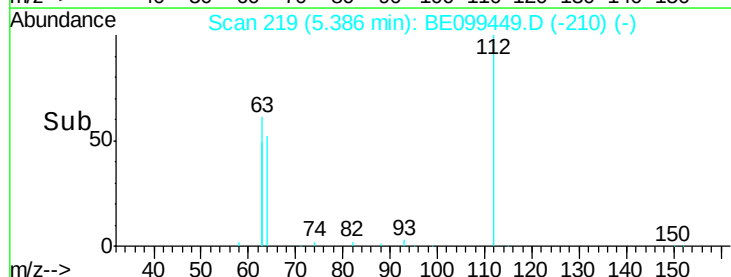
63 122.4 104.3 156.5

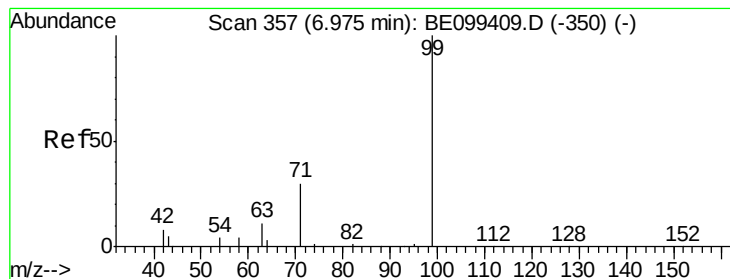


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.465 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

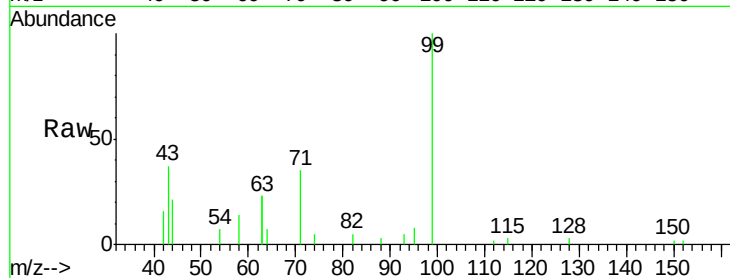
Tot Ion: 99 Resp: 4289

Ion Ratio Lower Upper

99 100

42 18.7 14.9 22.3

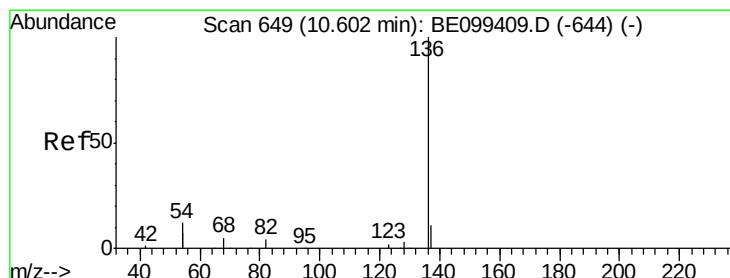
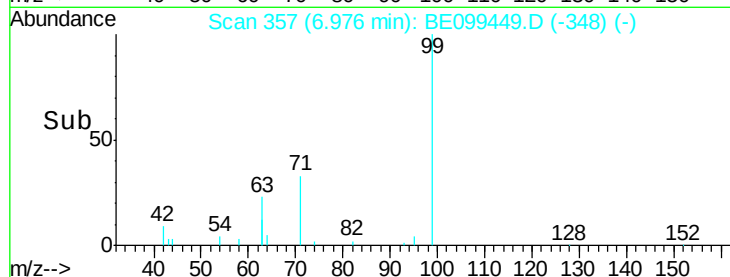
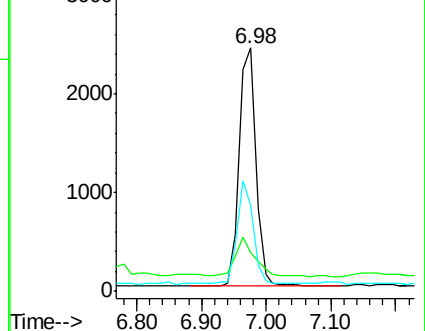
71 40.5 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Tgt Ion: 136 Resp: 9637

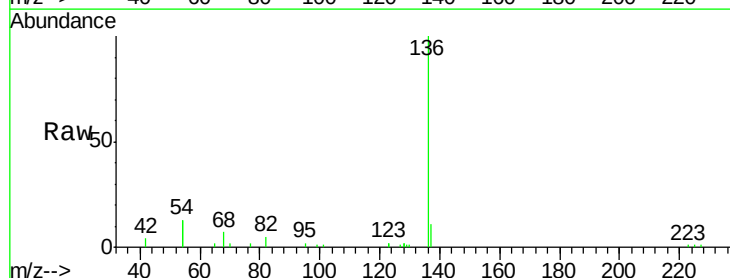
Ion Ratio Lower Upper

136 100

137 11.0 9.8 14.8

54 26.3 18.5 27.7

68 6.8 4.7 7.1

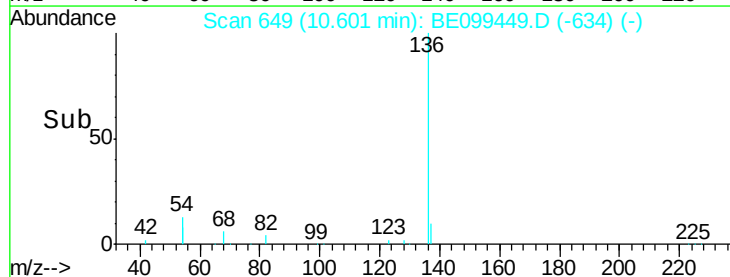
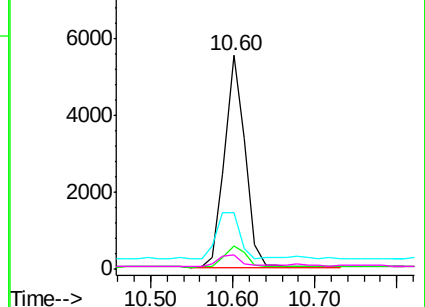


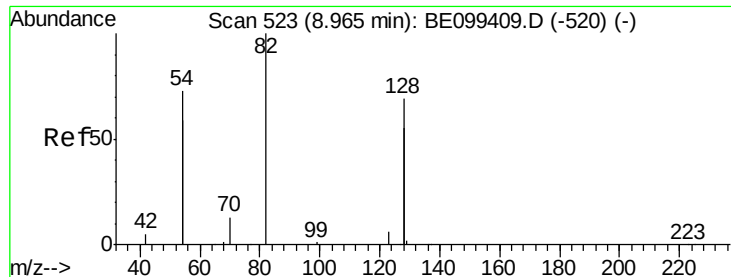
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.394 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

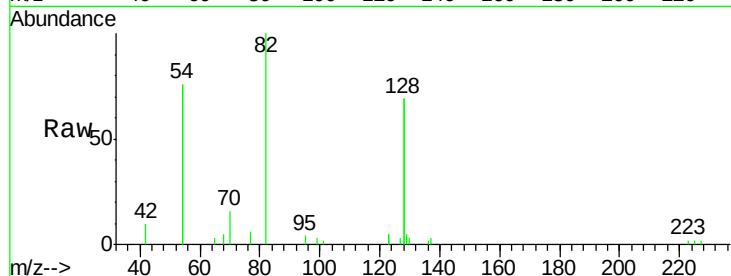
Tot Ion: 82 Resp: 3563

Ion Ratio Lower Upper

82 100

128 138.9 107.0 160.4

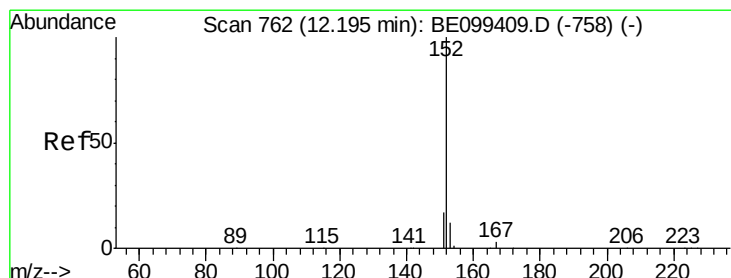
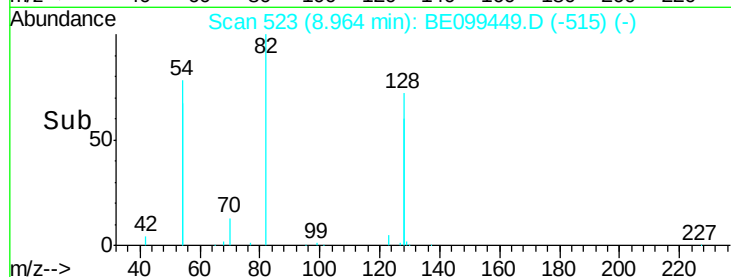
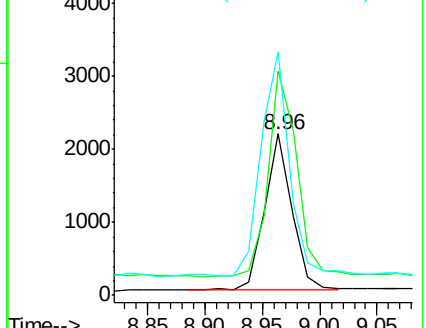
54 151.2 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.391 ng

RT: 12.19 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE099449.D

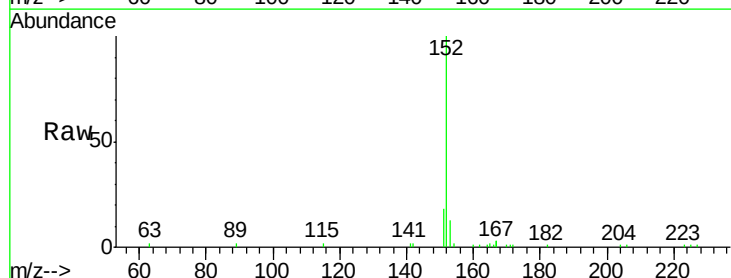
Acq: 1 May 2019 5:26

Tgt Ion: 152 Resp: 6785

Ion Ratio Lower Upper

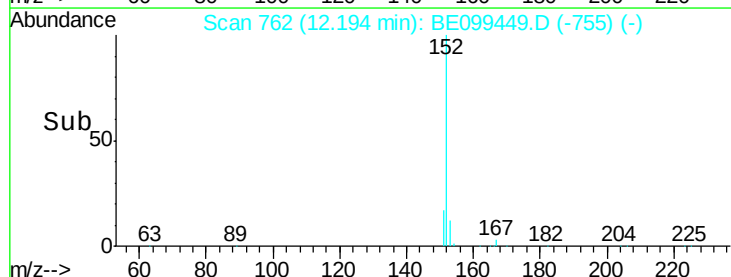
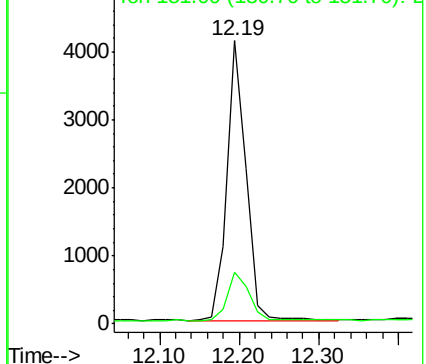
152 100

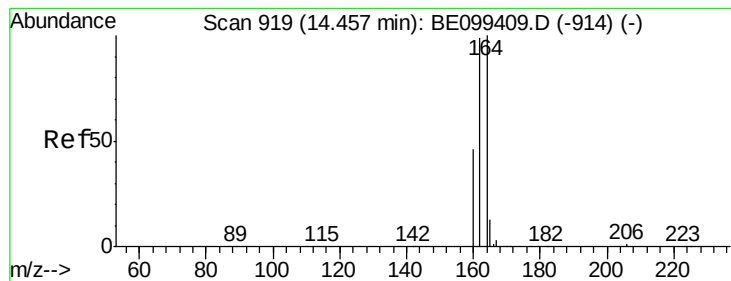
151 20.1 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

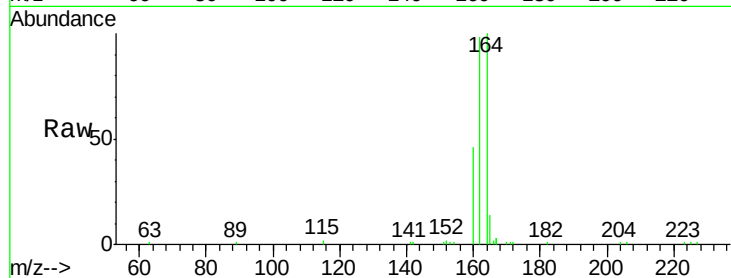
Tot Ion:164 Resp: 7773

Ion Ratio Lower Upper

164 100

162 98.0 79.0 118.4

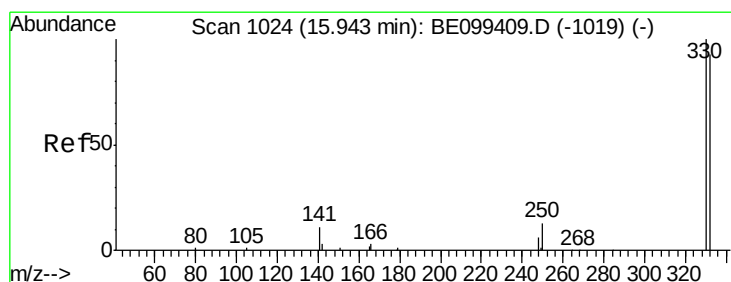
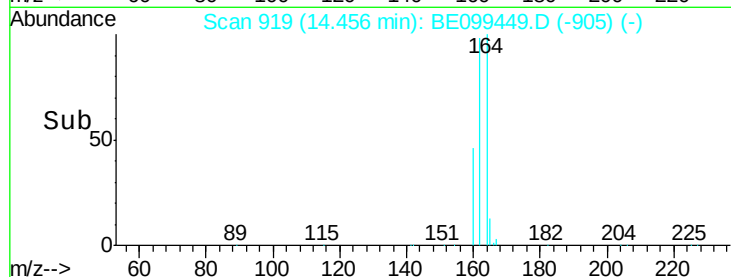
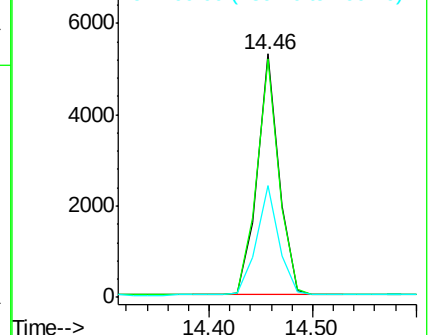
160 46.1 37.0 55.4



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: 0.460 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

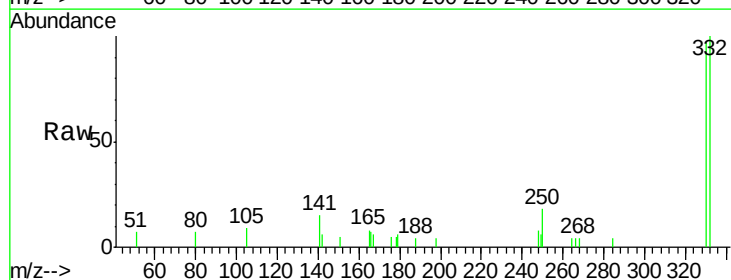
Tgt Ion:330 Resp: 2252

Ion Ratio Lower Upper

330 100

332 100.2 71.5 107.3

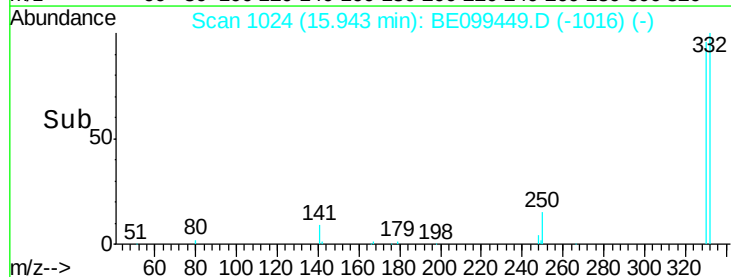
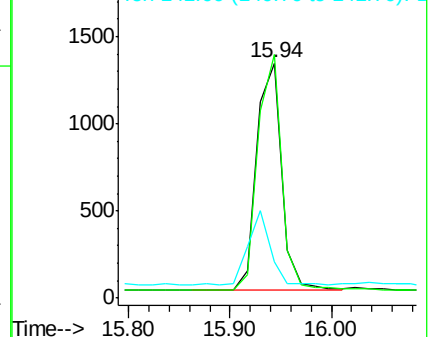
141 28.9 24.0 36.0

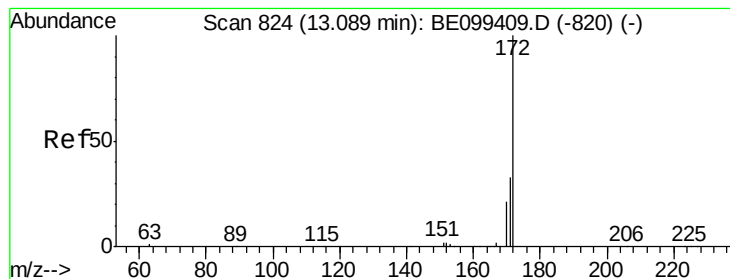


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.336 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.02 min

Lab File: BE099449.D

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EXT-026-SW025-042219

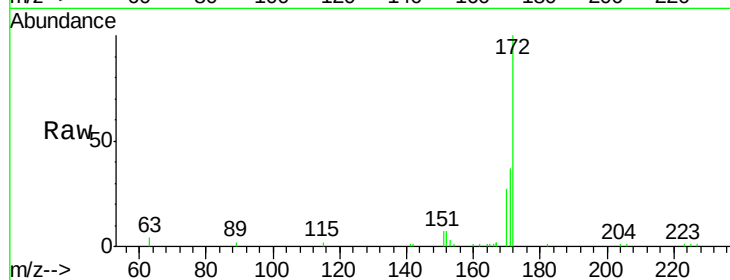
Tot Ion:172 Resp: 9957

Ion Ratio Lower Upper

172 100

171 36.9 26.6 39.8

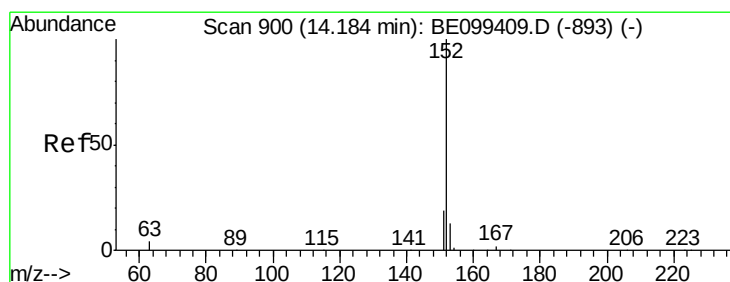
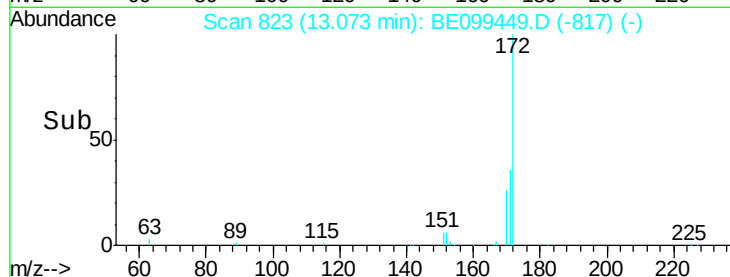
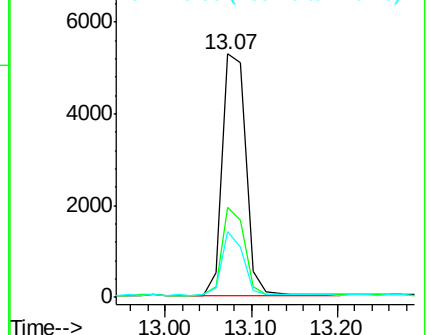
170 26.8 17.0 25.6#



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.031 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

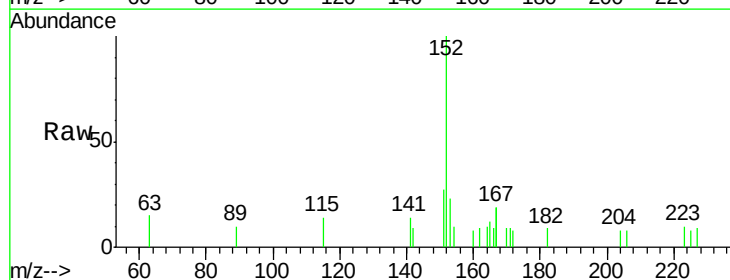
Tgt Ion:152 Resp: 1184

Ion Ratio Lower Upper

152 100

151 28.9 15.4 23.2#

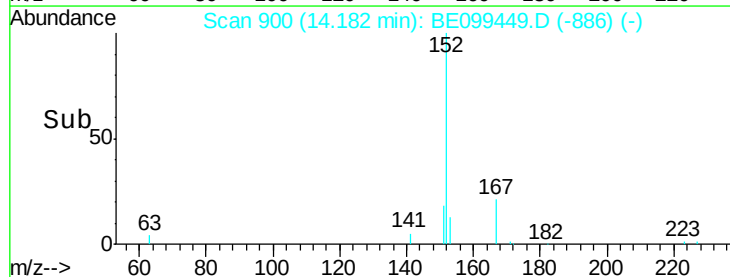
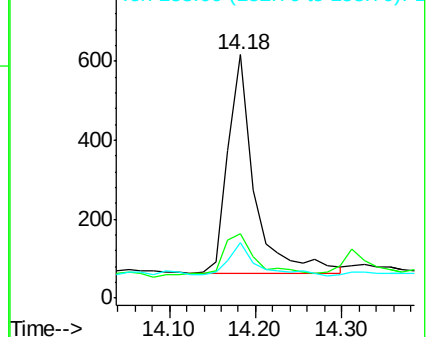
153 15.7 9.8 14.6#

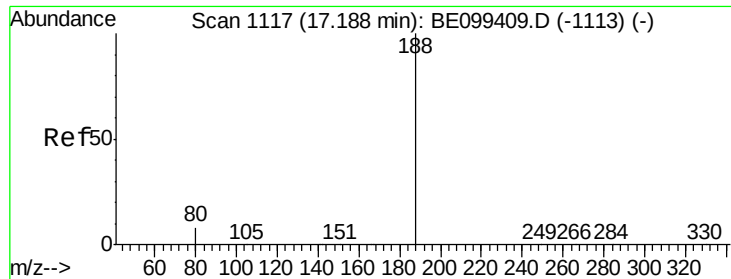


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

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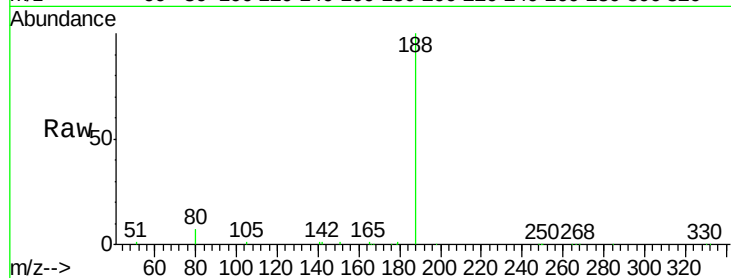
Tot Ion:188 Resp: 25200

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

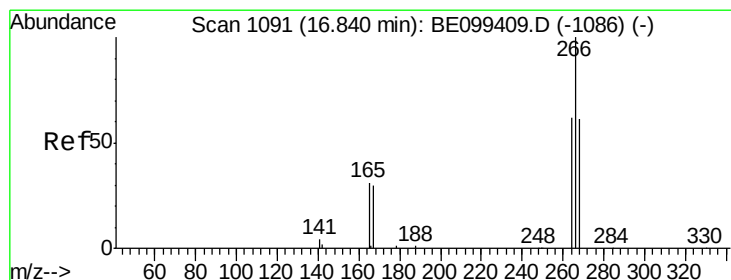
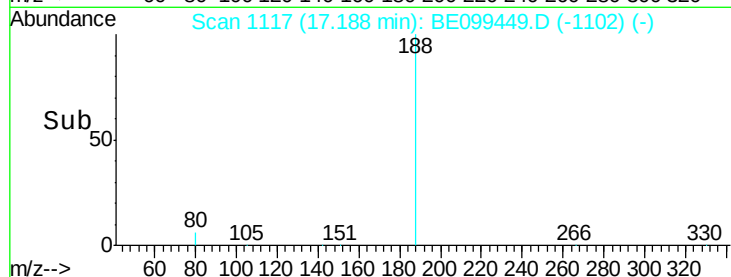
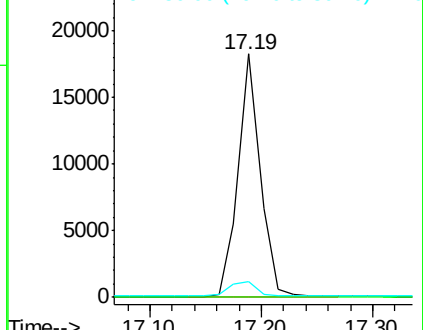
80 6.6 6.7 10.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.223 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

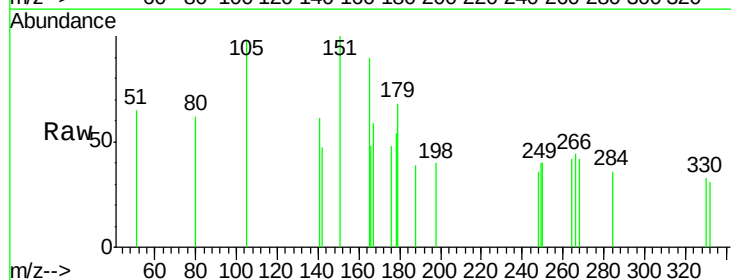
Tgt Ion:266 Resp: 63

Ion Ratio Lower Upper

266 100

264 97.1 50.8 76.2#

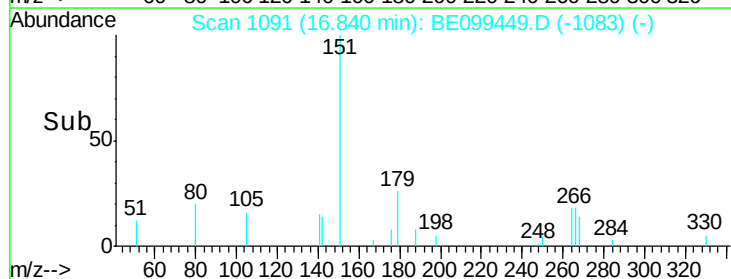
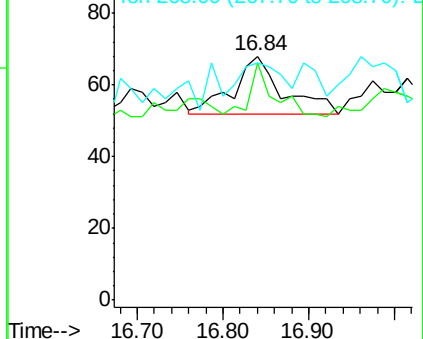
268 97.1 50.5 75.7#

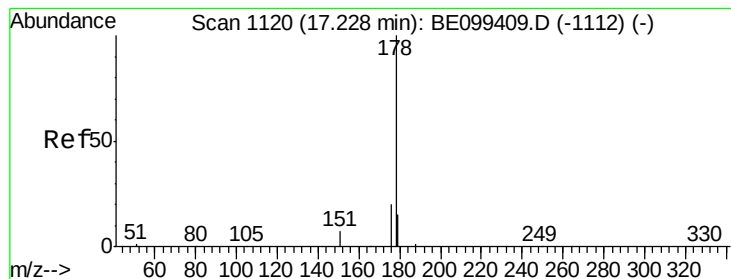


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.104 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

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EXT-026-SW025-042219

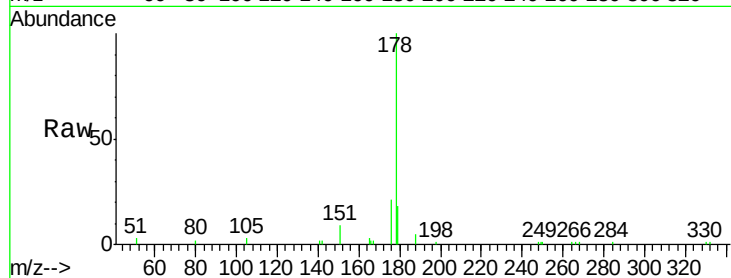
Tot Ion:178 Resp: 6776

Ion Ratio Lower Upper

178 100

176 20.4 15.6 23.4

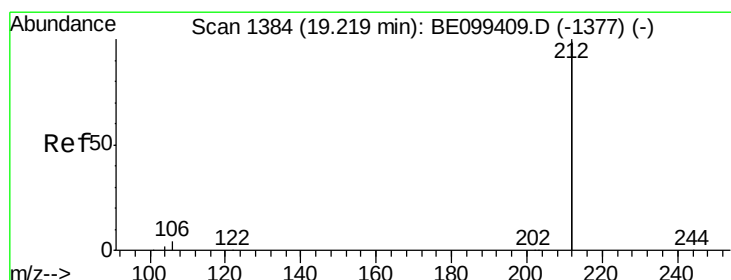
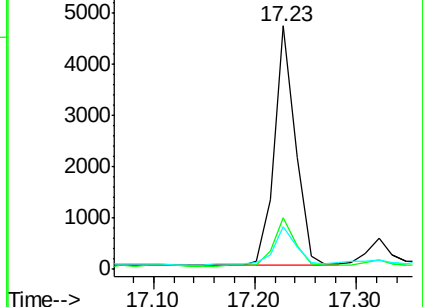
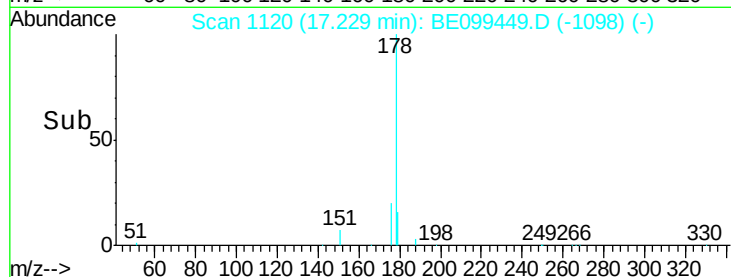
179 16.9 12.0 18.0



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



#25

Fluoranthene-d10

Concen: 0.348 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

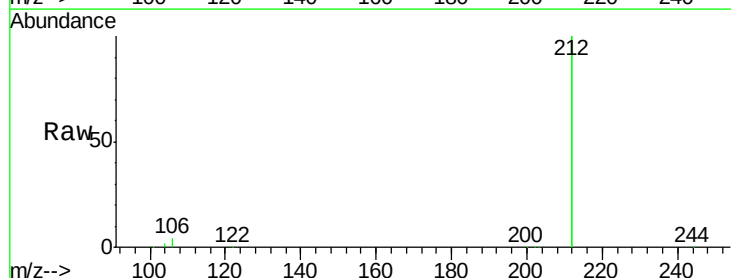
Tgt Ion:212 Resp: 118363

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

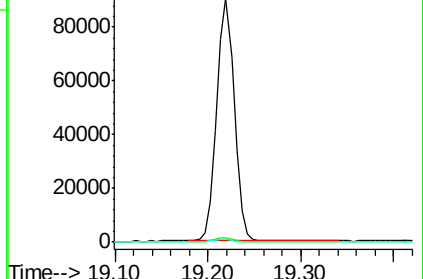
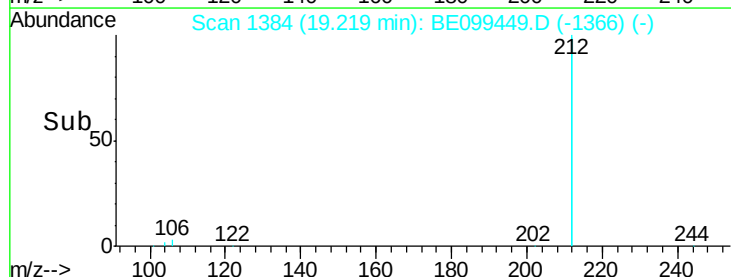
104 1.1 0.9 1.3

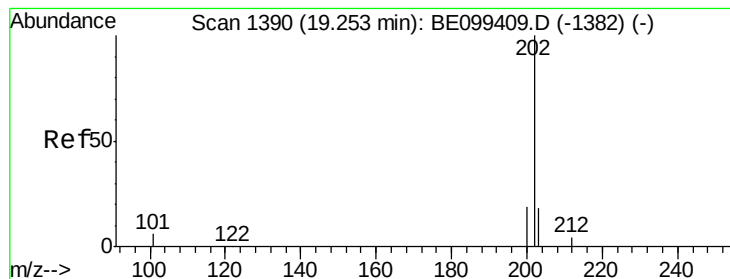


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.211 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

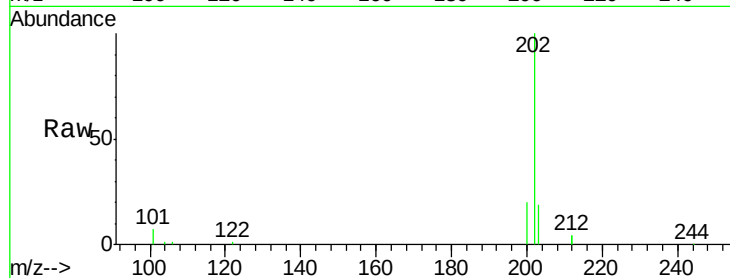
Tot Ion:202 Resp: 20557

Ion Ratio Lower Upper

202 100

101 7.4 5.4 8.0

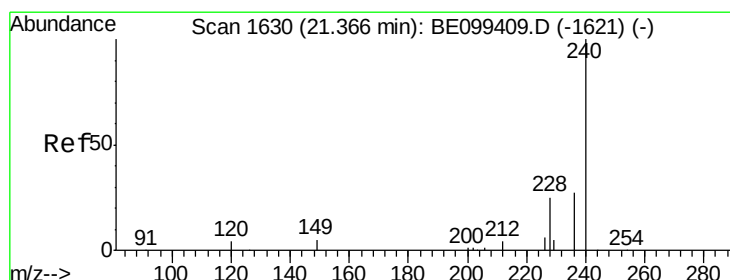
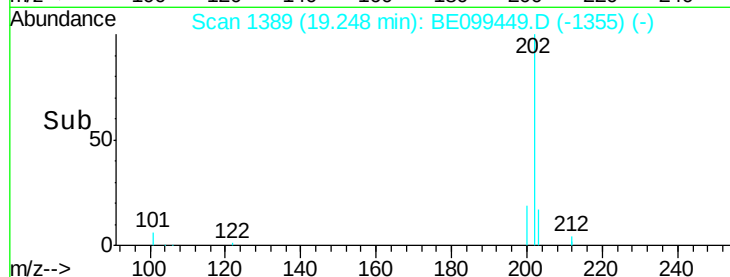
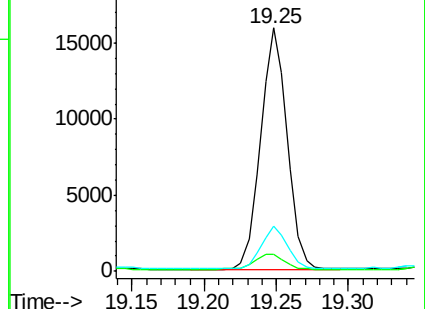
203 17.3 13.9 20.9



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# 1629

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

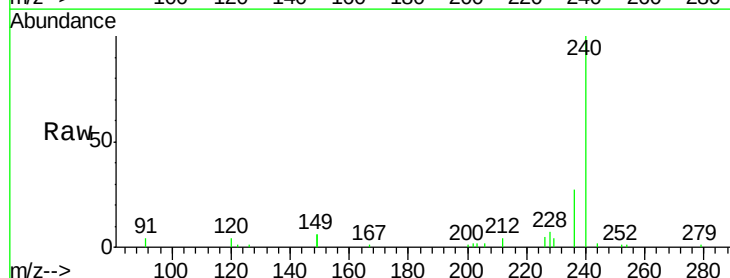
Tgt Ion:240 Resp: 31765

Ion Ratio Lower Upper

240 100

120 3.8 4.0 6.0#

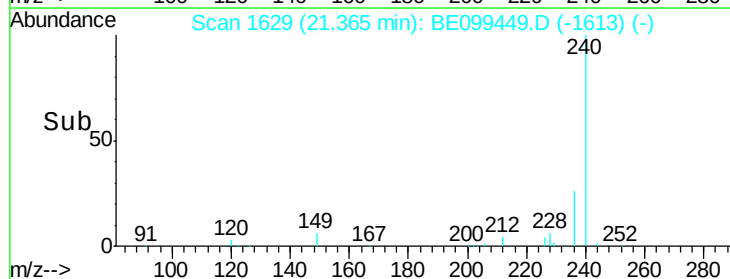
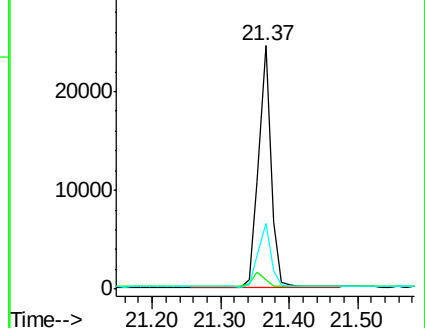
236 27.2 22.0 33.0

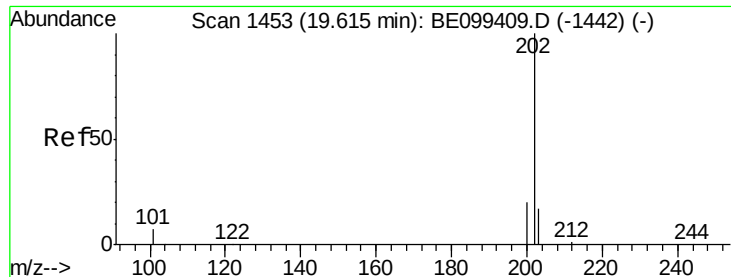


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

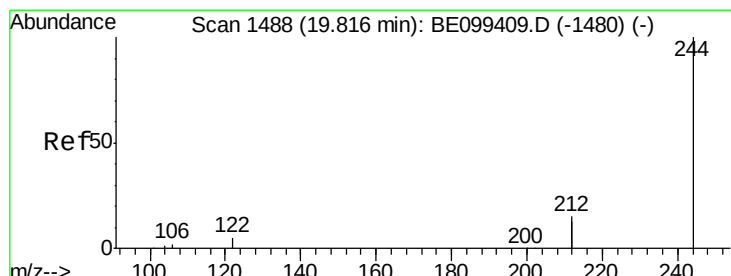
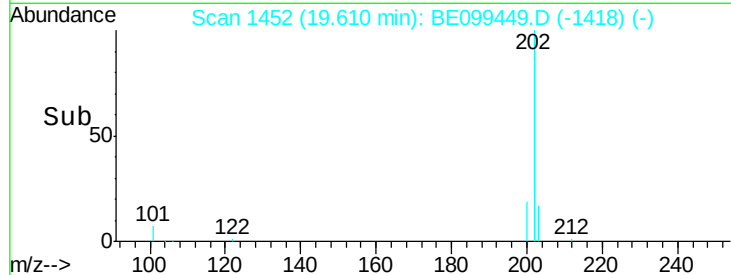
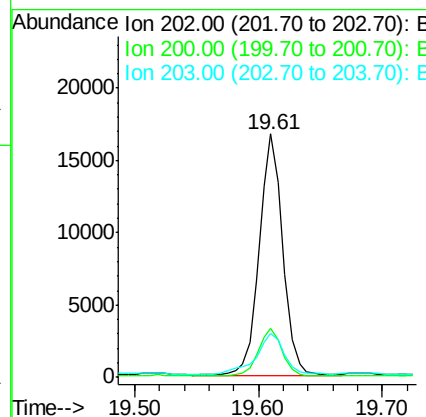
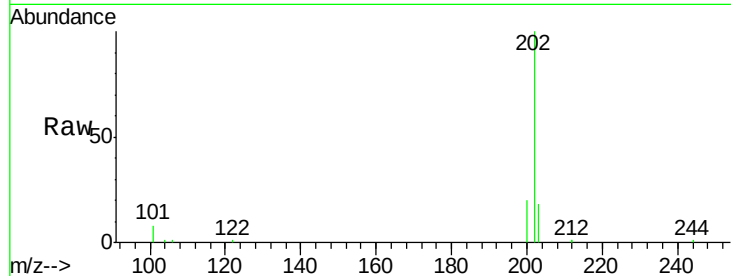




#28
Pvrene
Concen: 0.267 ng
RT: 19.61 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

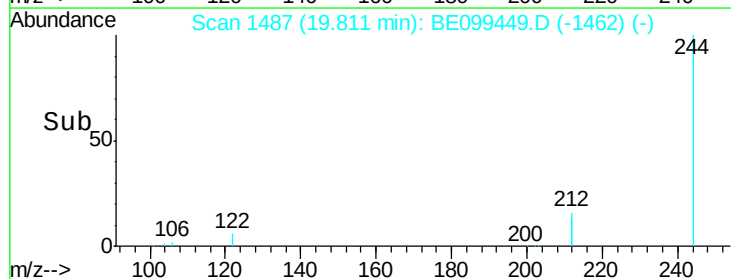
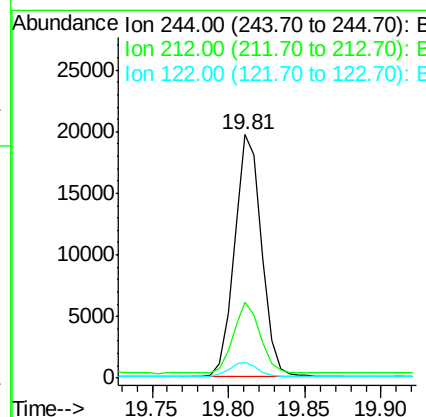
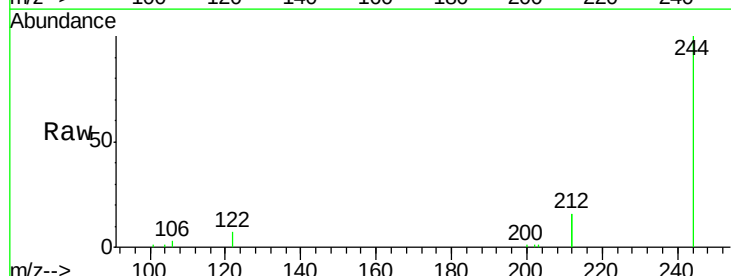
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW025-042219

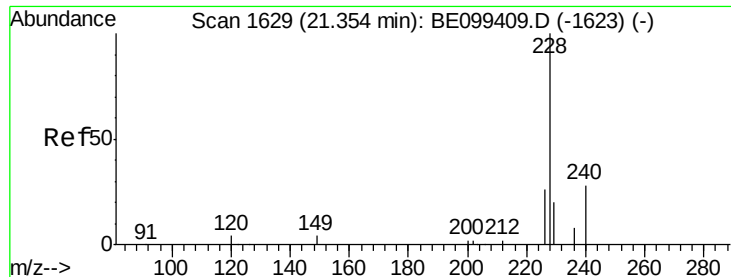
Tot Ion:202 Resp: 22071
Ion Ratio Lower Upper
202 100
200 19.7 15.7 23.5
203 20.7 13.9 20.9



#29
Terphenyl-d14
Concen: 0.422 ng
RT: 19.81 min Scan# 1487
Delta R.T. -0.01 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

Tgt Ion:244 Resp: 24532
Ion Ratio Lower Upper
244 100
212 31.3 23.2 34.8
122 6.7 4.2 6.4#





#30

Benzo(a)anthracene

Concen: 0.111 ng

RT: 21.34 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

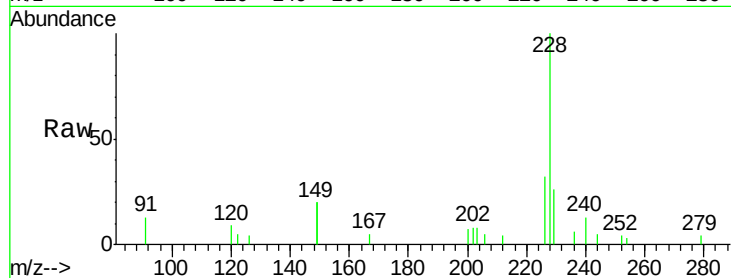
Tot Ion:228 Resp: 11276

Ion Ratio Lower Upper

228 100

226 31.5 21.0 31.6

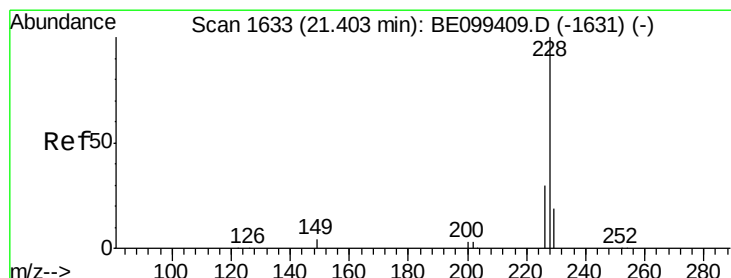
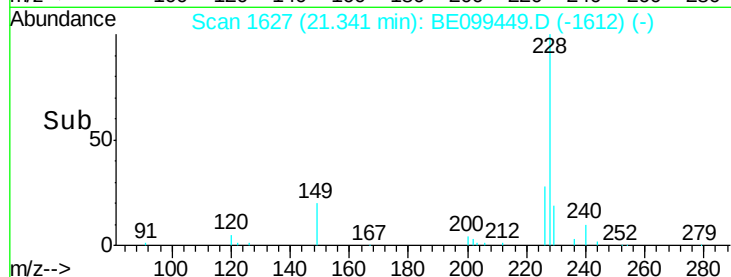
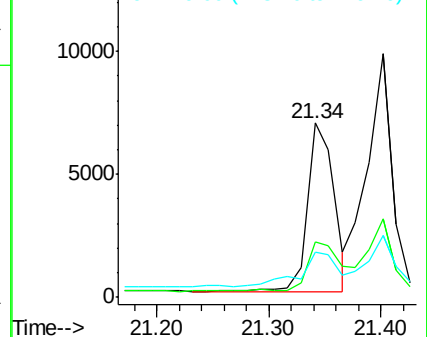
229 26.1 16.6 25.0#



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: 0.151 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

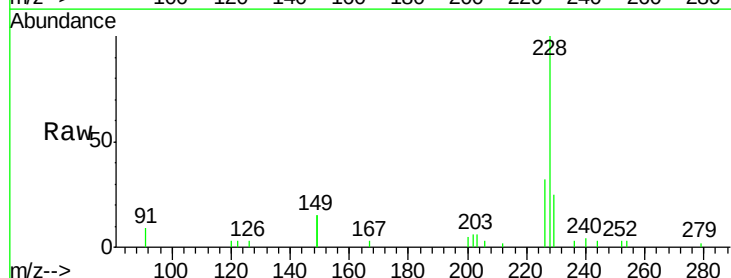
Tgt Ion:228 Resp: 14980

Ion Ratio Lower Upper

228 100

226 32.0 24.0 36.0

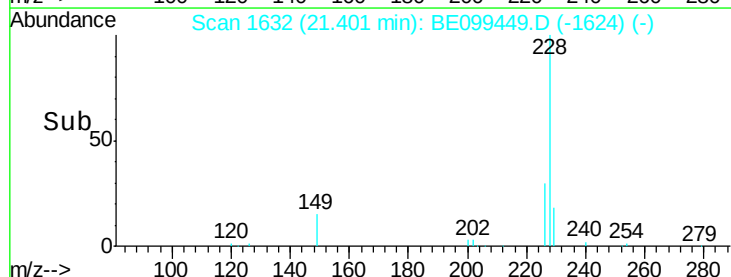
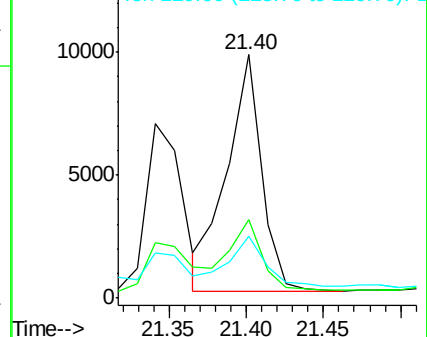
229 25.3 15.8 23.8#

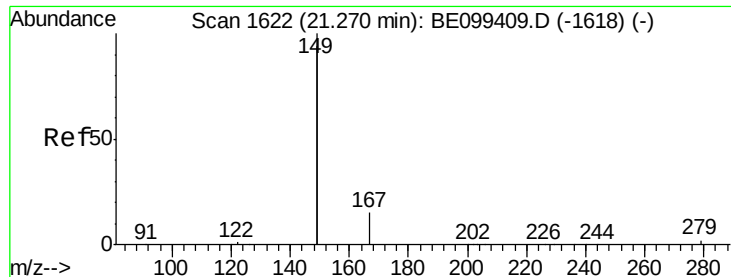


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.142 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

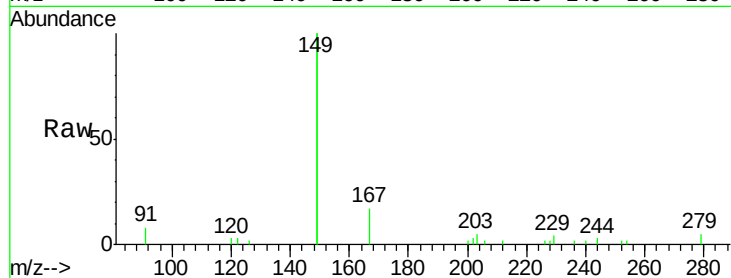
Tot Ion:149 Resp: 30507

Ion Ratio Lower Upper

149 100

167 7.5 5.8 8.6

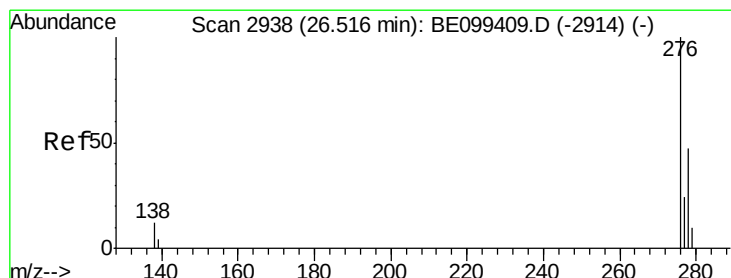
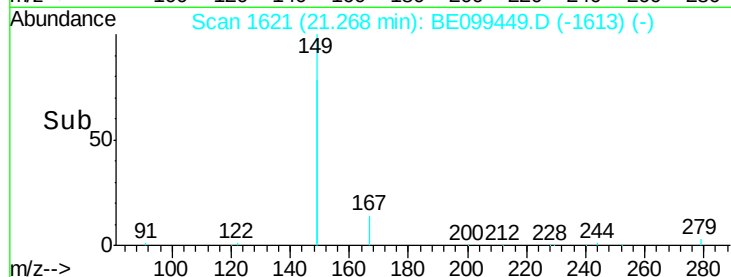
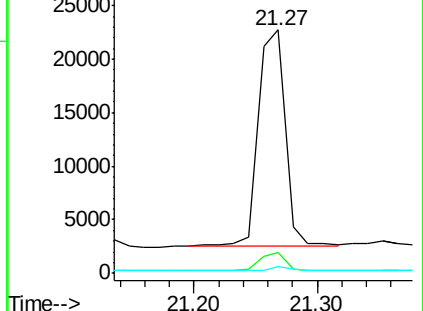
279 1.8 1.0 1.6#



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.085 ng

RT: 26.51 min Scan# 2934

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

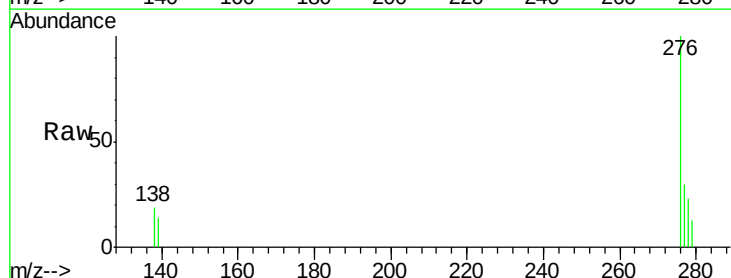
Tgt Ion:276 Resp: 9976

Ion Ratio Lower Upper

276 100

138 13.7 10.2 15.2

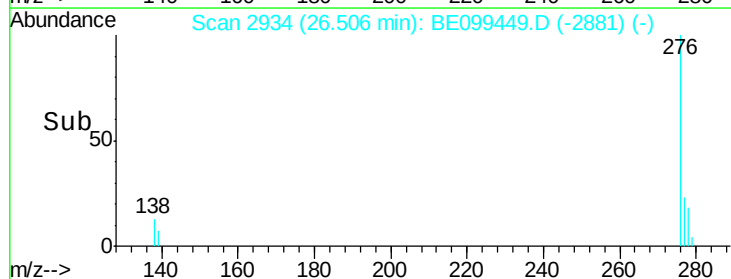
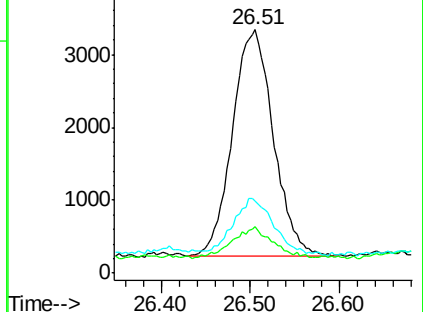
277 22.8 19.2 28.8

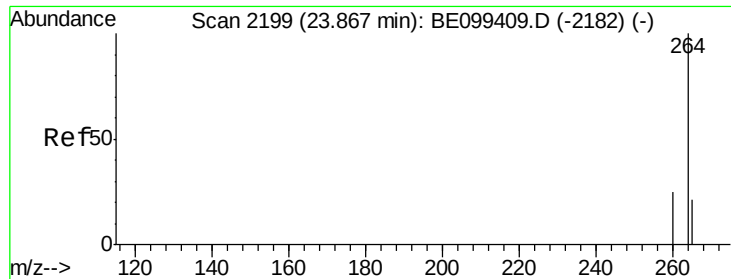


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

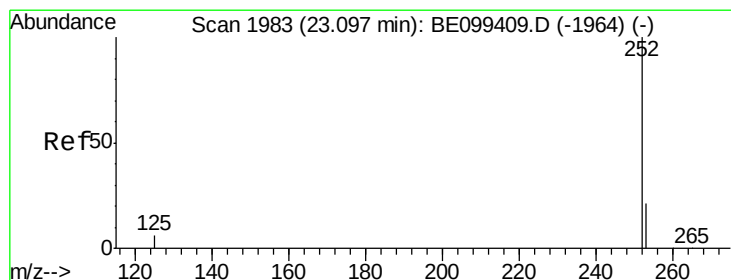
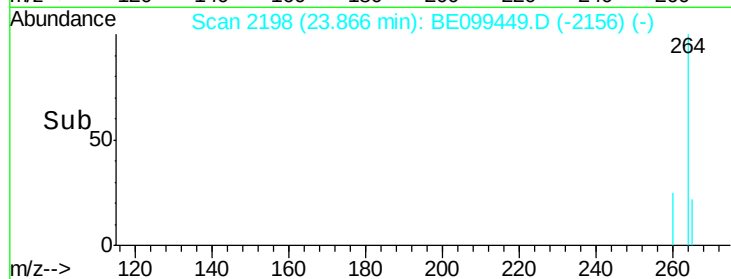
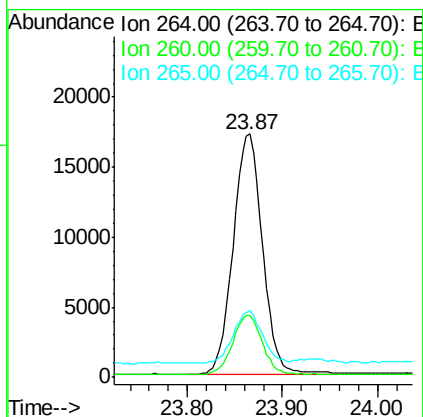
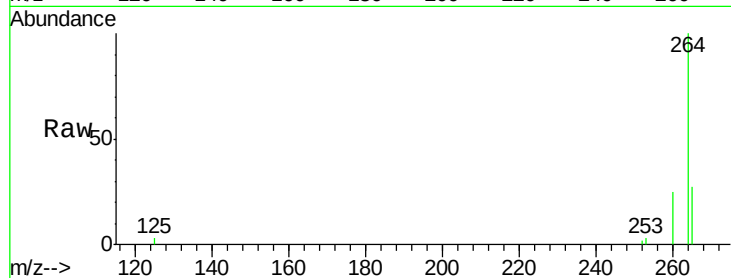




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.87 min Scan# 2198
Delta R.T. -0.00 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

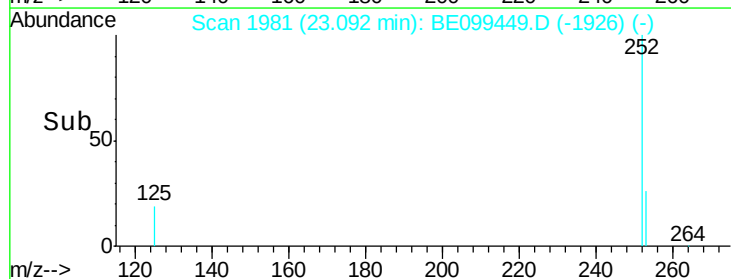
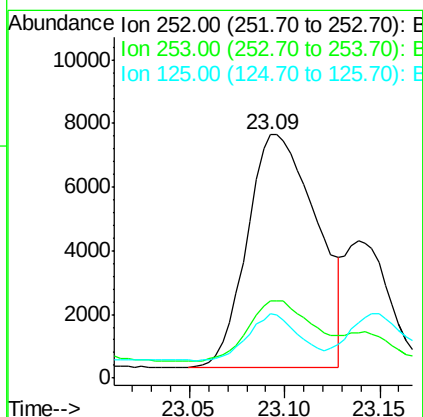
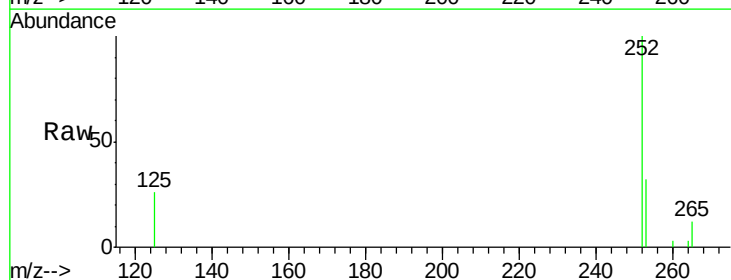
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW025-042219

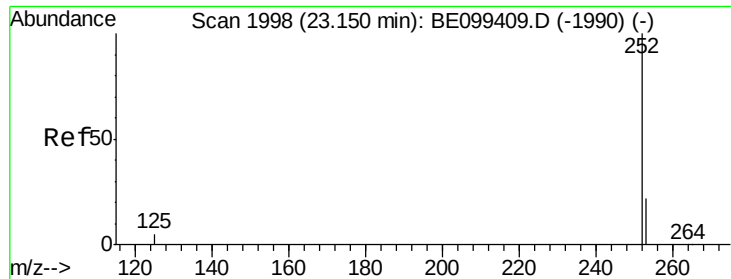
Tot Ion:264 Resp: 36607
Ion Ratio Lower Upper
264 100
260 25.4 20.2 30.2
265 27.3 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.177 ng
RT: 23.09 min Scan# 1981
Delta R.T. -0.00 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

Tgt Ion:252 Resp: 18635
Ion Ratio Lower Upper
252 100
253 31.8 18.1 27.1#
125 26.3 5.6 8.4#

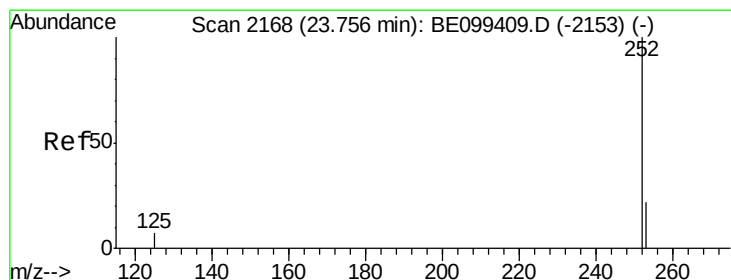
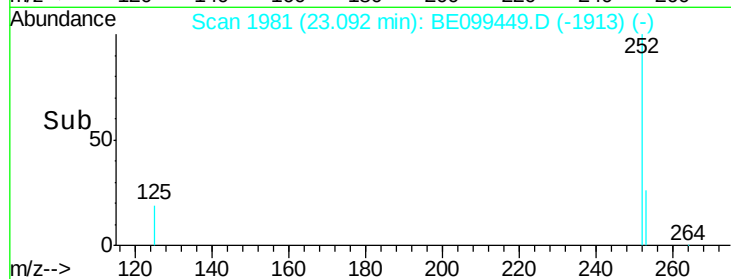
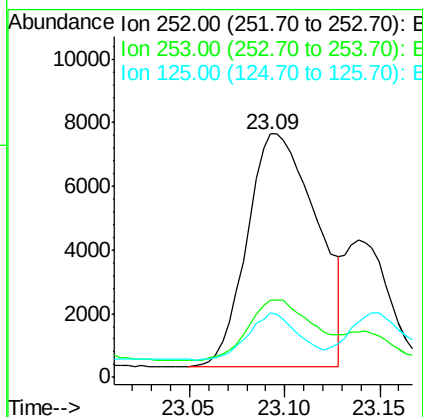
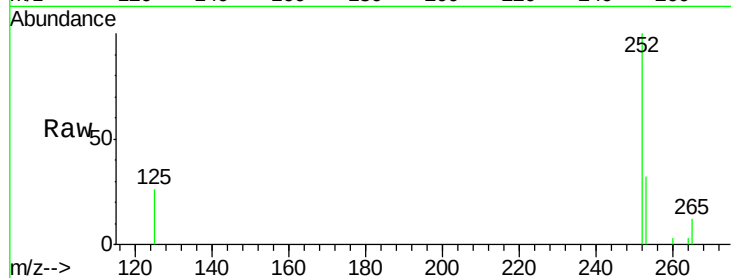




#36
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 23.09 min Scan# 1981
Delta R.T. -0.06 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

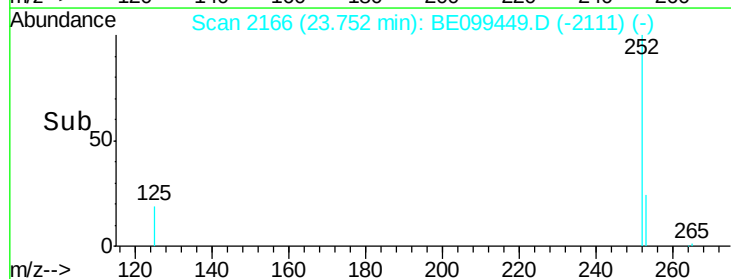
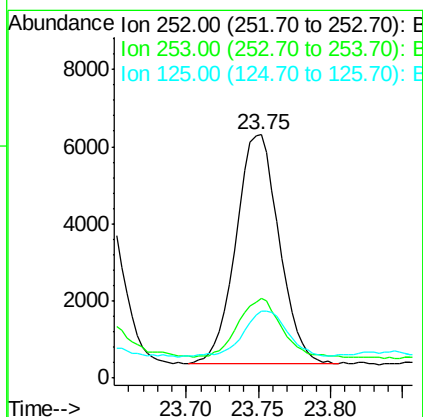
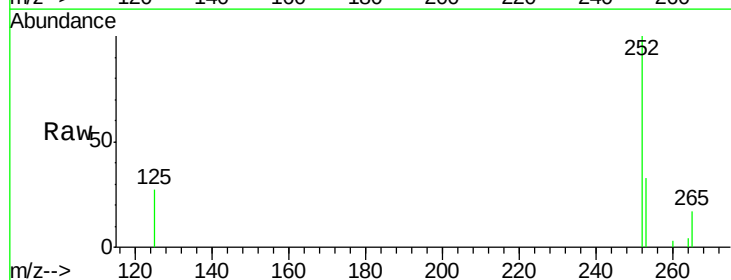
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW025-042219

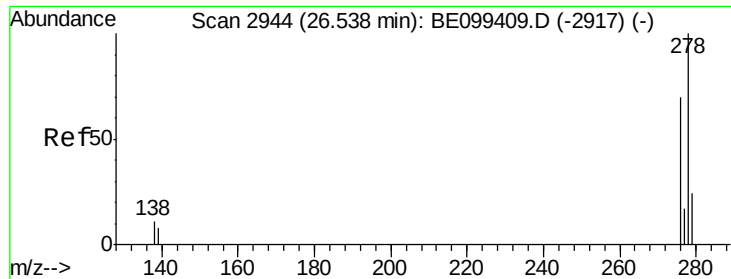
Tot Ion:252 Resp: 18635
Ion Ratio Lower Upper
252 100
253 31.8 18.4 27.6#
125 26.3 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 0.121 ng
RT: 23.75 min Scan# 2166
Delta R.T. -0.00 min
Lab File: BE099449.D
Acq: 1 May 2019 5:26

Tgt Ion:252 Resp: 12105
Ion Ratio Lower Upper
252 100
253 33.0 18.9 28.3#
125 27.3 6.7 10.1#





#38

Dibenzo(a,h)anthracene

Concen: 0.024 ng

RT: 26.52 min Scan# 2939

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW025-042219

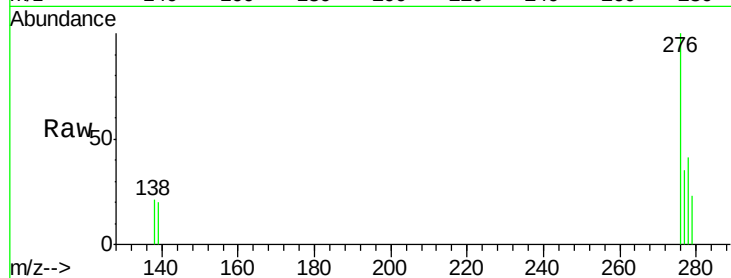
Tot Ion:278 Resp: 2485

Ion Ratio Lower Upper

278 100

139 49.8 7.7 11.5#

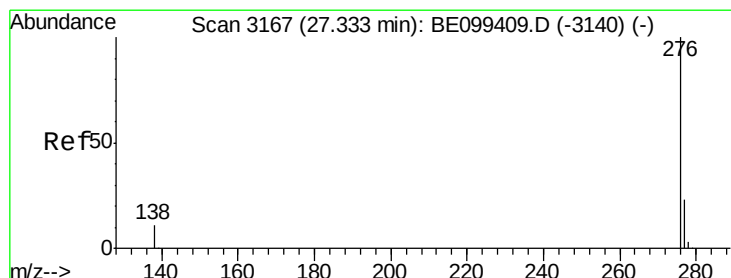
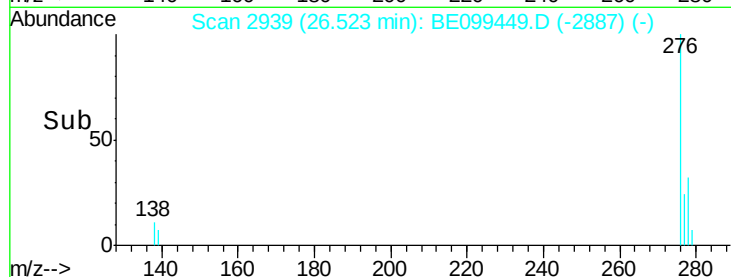
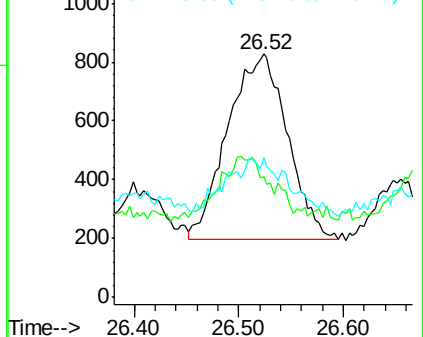
279 57.2 20.2 30.2#



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: 0.101 ng

RT: 27.33 min Scan# 3164

Delta R.T. -0.01 min

Lab File: BE099449.D

Acq: 1 May 2019 5:26

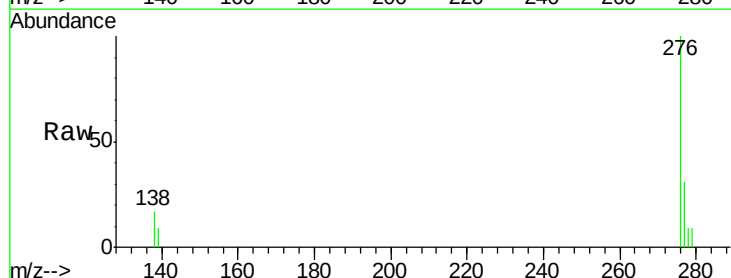
Tgt Ion:276 Resp: 10300

Ion Ratio Lower Upper

276 100

277 30.8 19.5 29.3#

138 16.9 9.6 14.4#



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

