

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099448.D
 Acq On : 1 May 2019 4:50
 Operator : JU/SJ
 Sample : K2568-07
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW046-042219

Quant Time: May 01 06:56:30 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	2449	0.40	ng	-0.01
7) Naphthalene-d8	10.60	136	9460	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7573	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	24926	0.40	ng	0.00
27) Chrysene-d12	21.37	240	29398	0.40	ng	0.00
34) Perylene-d12	23.87	264	33943	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2585	0.38	ng	0.00
5) Phenol-d6	6.97	99	4021	0.45	ng	0.00
8) Nitrobenzene-d5	8.96	82	3303	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	6258	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2116	0.44	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	9349	0.32	ng	-0.01
25) Fluoranthene-d10	19.22	212	114242	0.34	ng	0.00
29) Terphenyl-d14	19.81	244	24662	0.46	ng	0.00

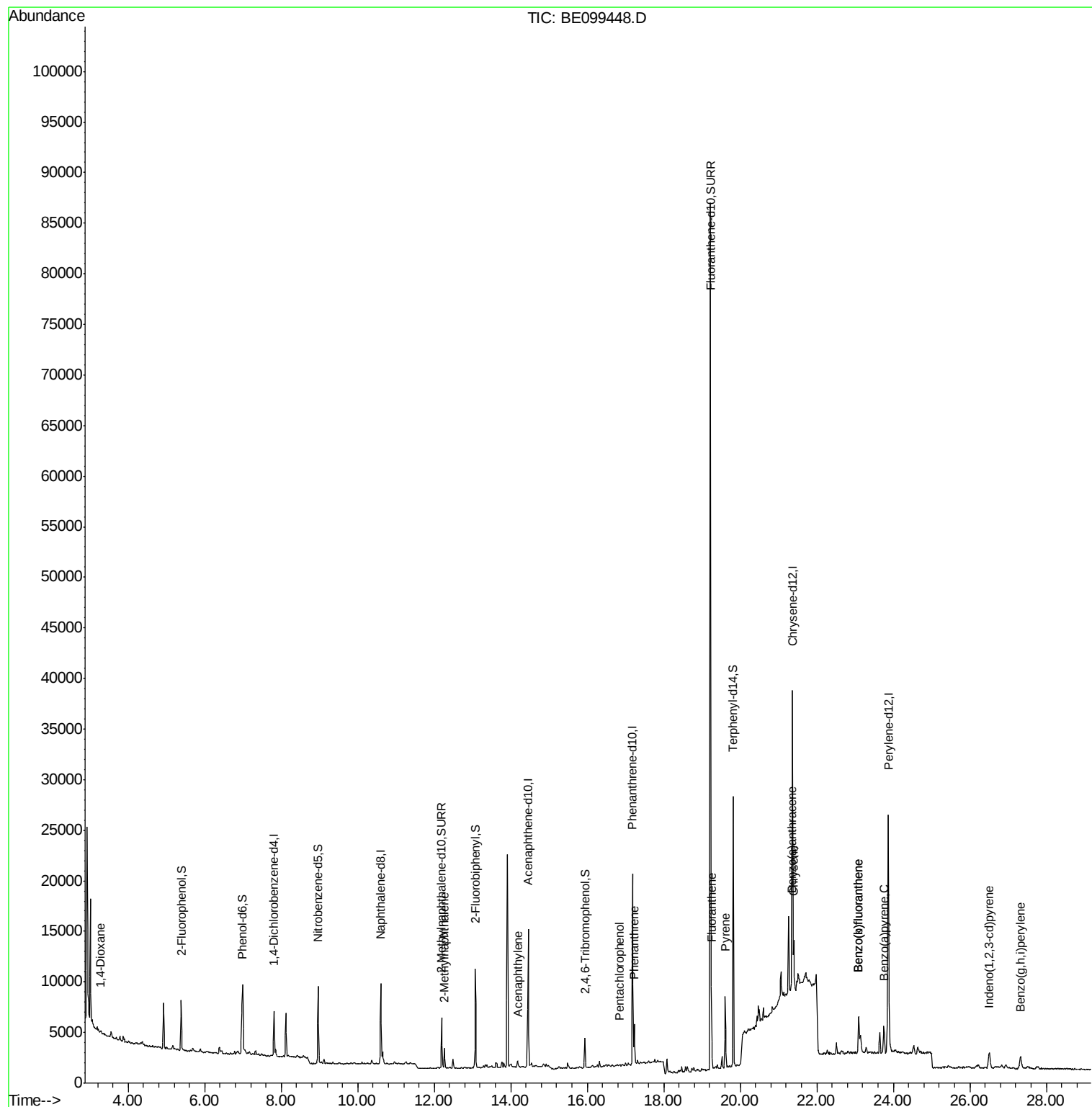
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.27	88	146	0.043	ng	# 27
12) 2-Methylnaphthalene	12.27	142	1362	0.076	ng	95
16) Acenaphthylene	14.18	152	818	0.022	ng	# 83
22) Pentachlorophenol	16.84	266	27	0.219	ng	# 48
23) Phenanthrene	17.23	178	4048	0.063	ng	# 96
26) Fluoranthene	19.25	202	5773	0.060	ng	97
28) Pyrene	19.61	202	6848	0.089	ng	95
30) Benzo(a)anthracene	21.34	228	3582	0.038	ng	# 74
31) Chrysene	21.40	228	4674	0.051	ng	# 82
33) Indeno(1,2,3-cd)pyrene	26.51	276	2778	0.026	ng	# 93
35) Benzo(b)fluoranthene	23.10	252	5414	0.055	ng	# 26
36) Benzo(k)fluoranthene	23.10	252	5414	0.057	ng	# 28
37) Benzo(a)pyrene	23.75	252	3621	0.039	ng	# 28
39) Benzo(g,h,i)perylene	27.33	276	3203	0.034	ng	# 64

(#) = 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: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

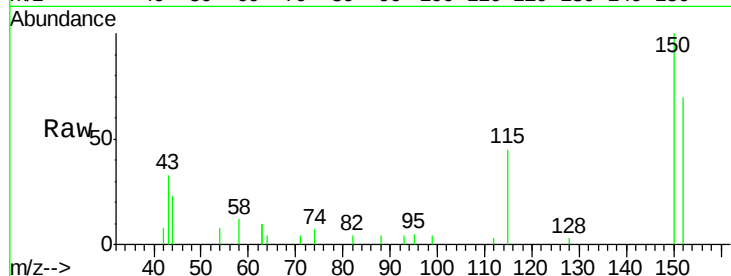
Tot Ion:152 Resp: 2449

Ion Ratio Lower Upper

152 100

150 142.4 104.8 157.2

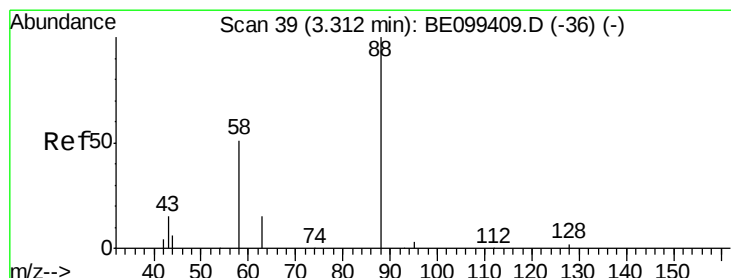
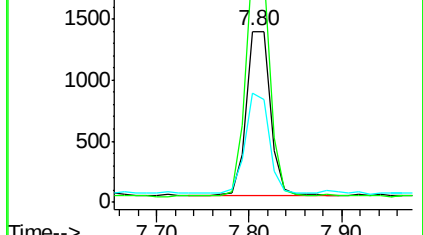
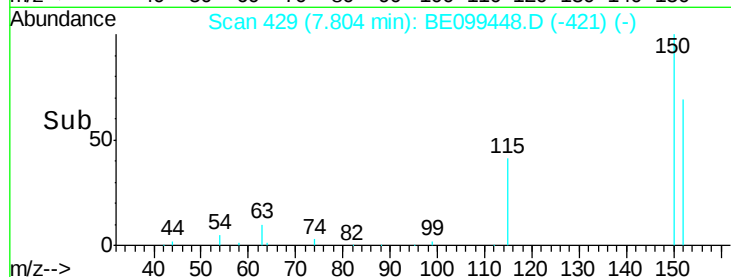
115 63.5 46.6 69.8



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



#2

1,4-Dioxane

Concen: 0.043 ng

RT: 3.27 min Scan# 35

Delta R.T. -0.05 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

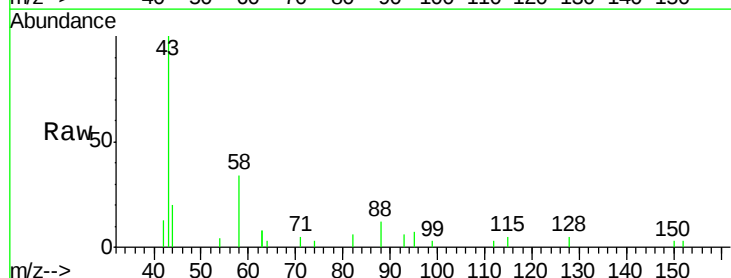
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

58 0.0 51.0 76.6#

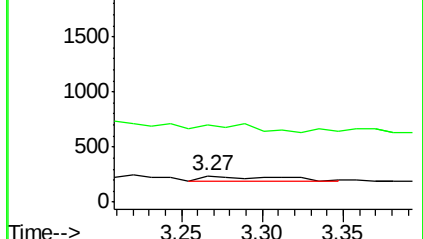
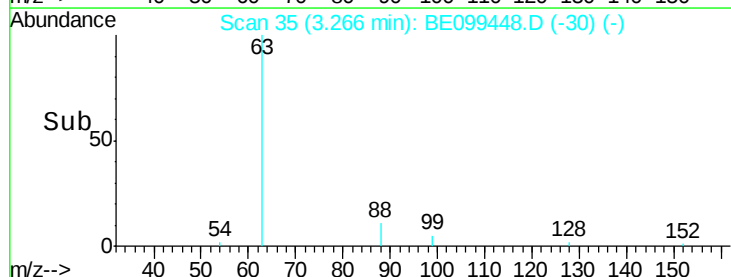
43 0.0 20.6 30.8#

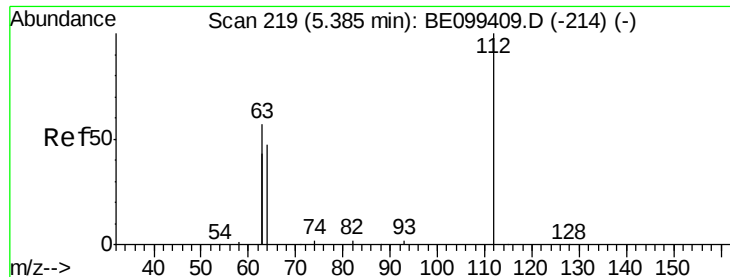


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.382 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

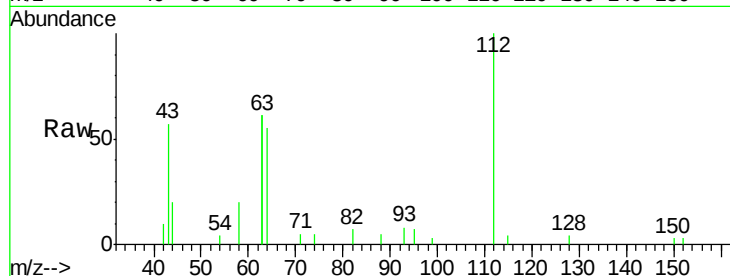
Tot Ion:112 Resp: 2585

Ion Ratio Lower Upper

112 100

64 58.4 47.4 71.0

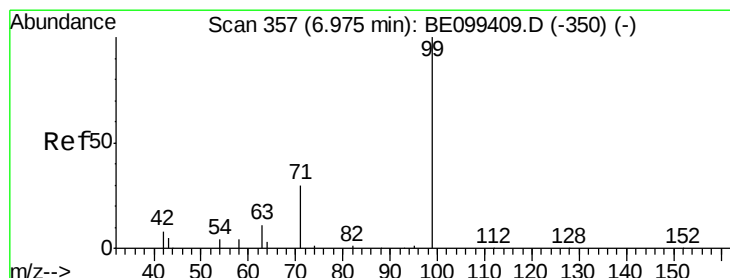
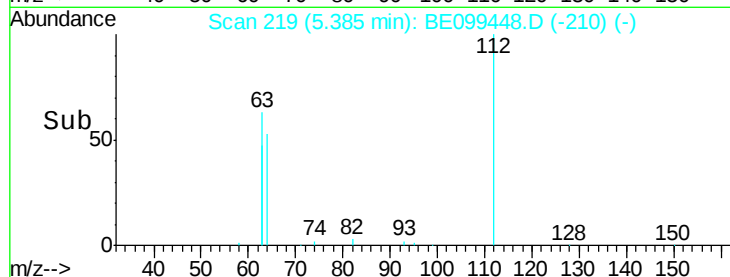
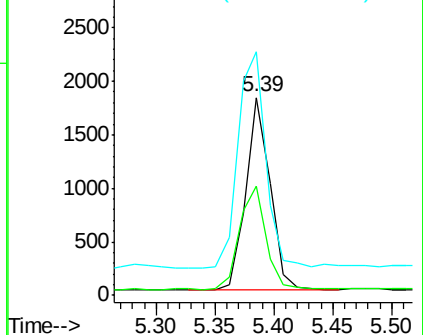
63 130.7 104.3 156.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.446 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

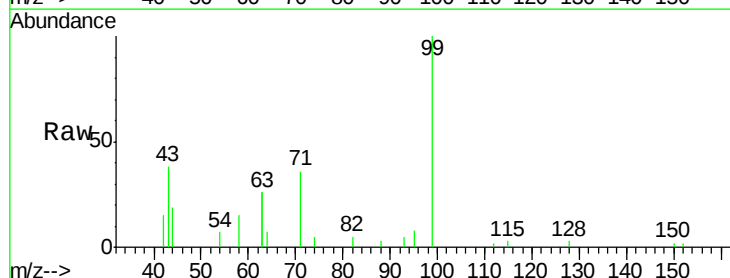
Tgt Ion: 99 Resp: 4021

Ion Ratio Lower Upper

99 100

42 19.2 14.9 22.3

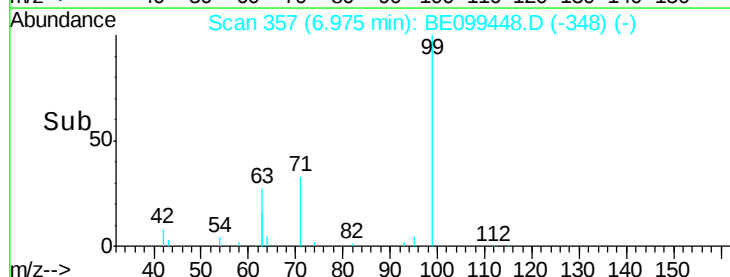
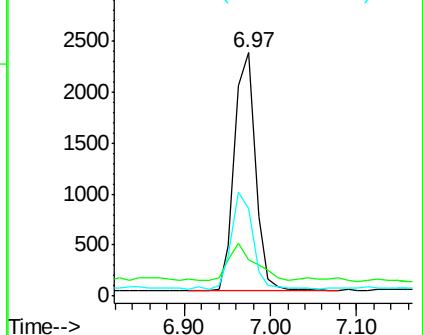
71 40.1 33.0 49.6

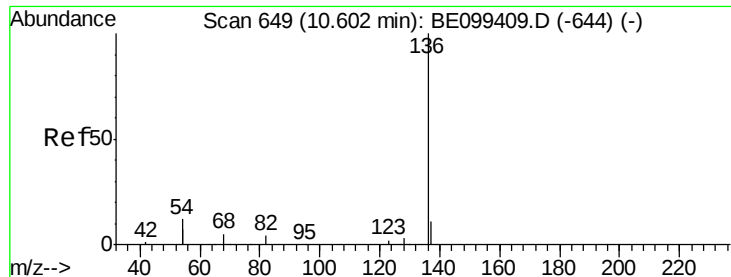


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

Tot Ion:136 Resp: 9460

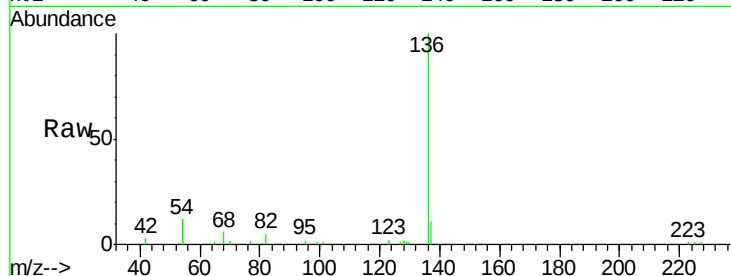
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 23.8 18.5 27.7

68 5.9 4.7 7.1

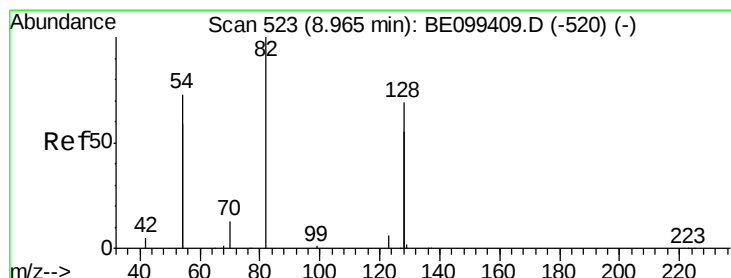
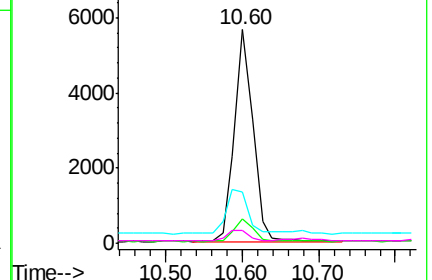
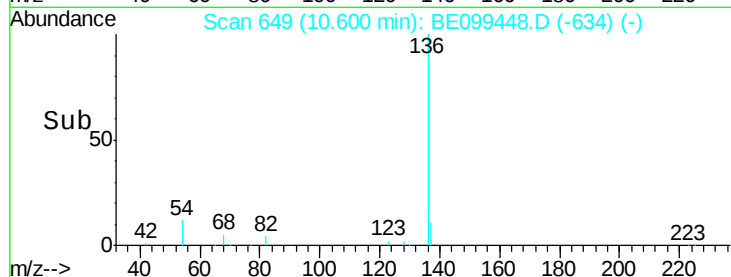


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.373 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

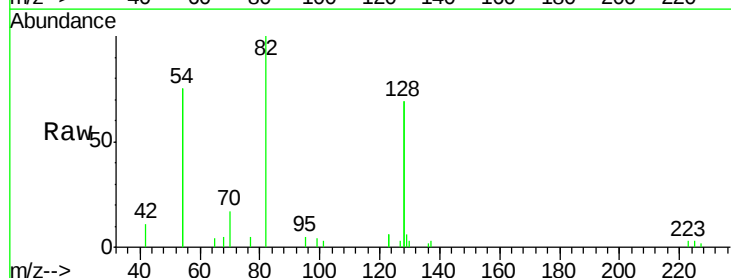
Tgt Ion: 82 Resp: 3303

Ion Ratio Lower Upper

82 100

128 137.4 107.0 160.4

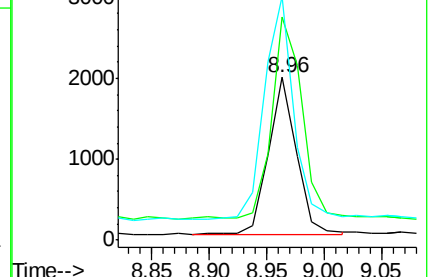
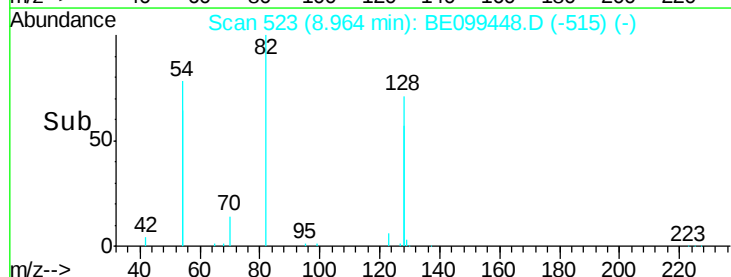
54 149.8 113.1 169.7

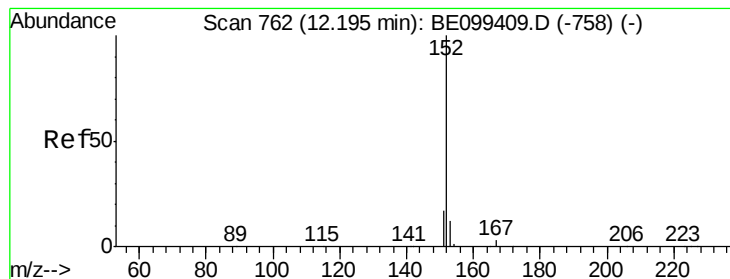


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 12.20 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

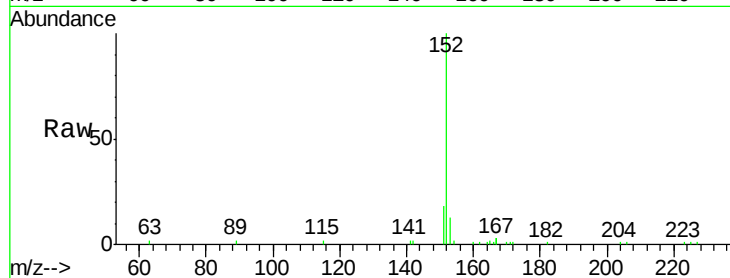
EXT-026-SW046-042219

Tot Ion:152 Resp: 6258

Ion Ratio Lower Upper

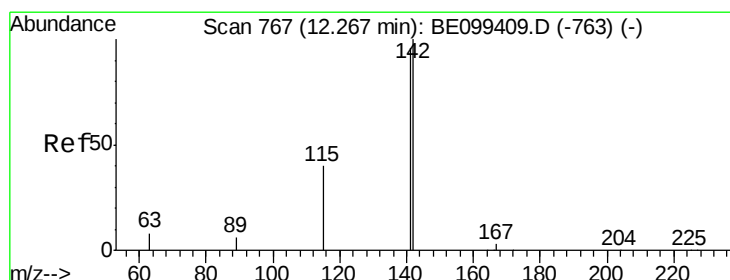
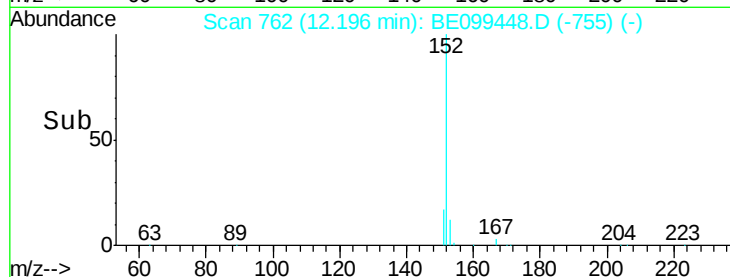
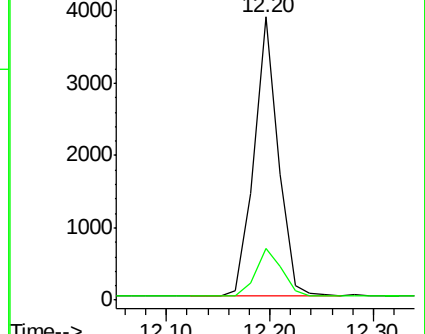
152 100

151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.076 ng

RT: 12.27 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

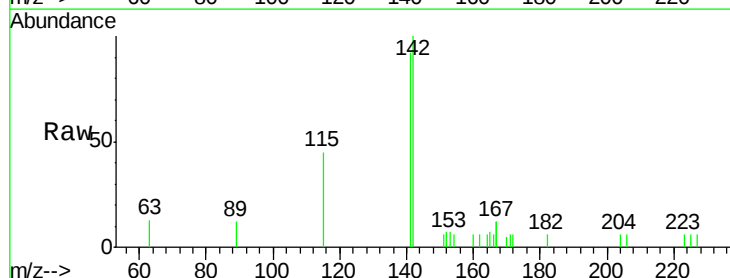
Tgt Ion:142 Resp: 1362

Ion Ratio Lower Upper

142 100

141 92.1 77.0 115.4

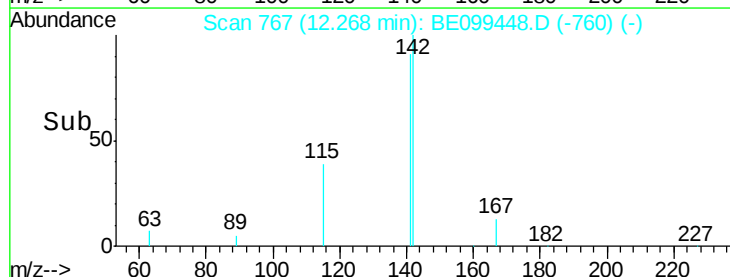
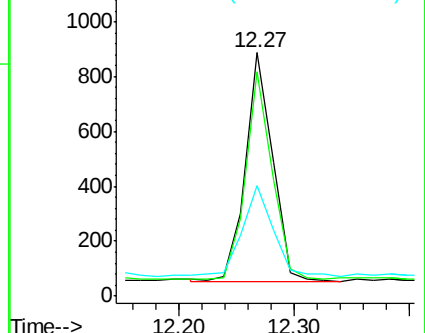
115 45.4 33.4 50.0

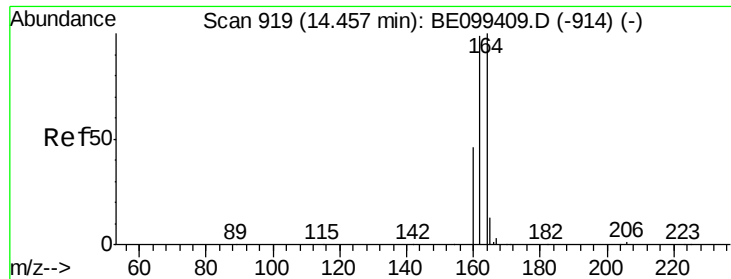


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

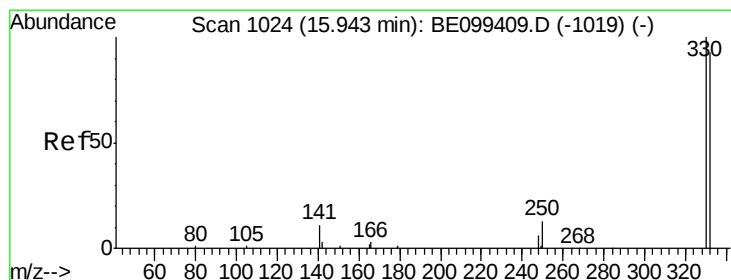
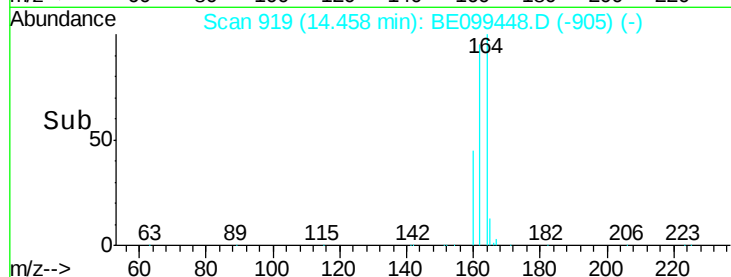
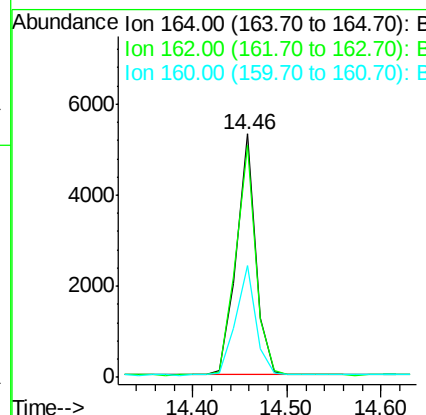
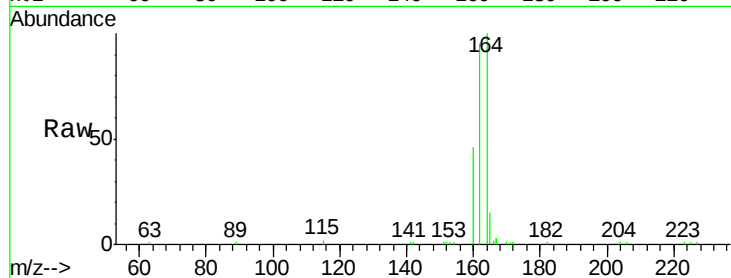




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099448.D
 Acq: 1 May 2019 4:50

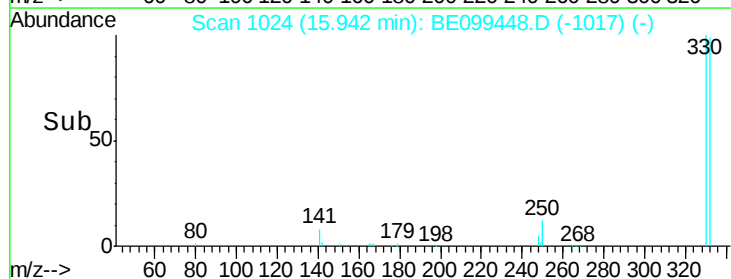
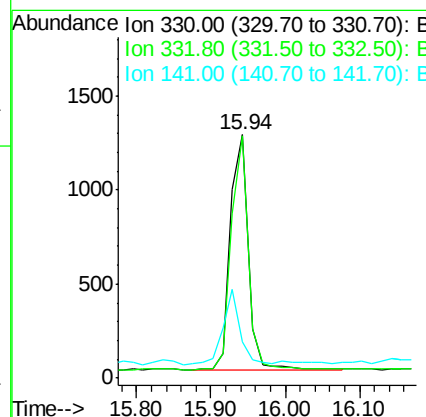
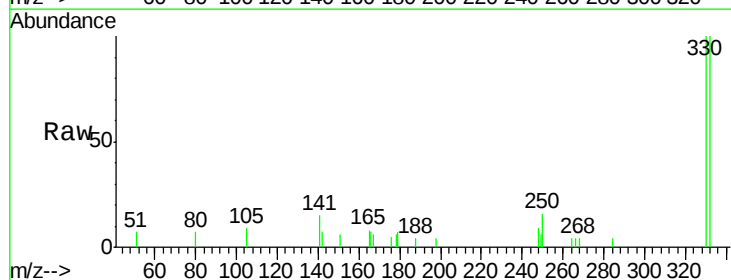
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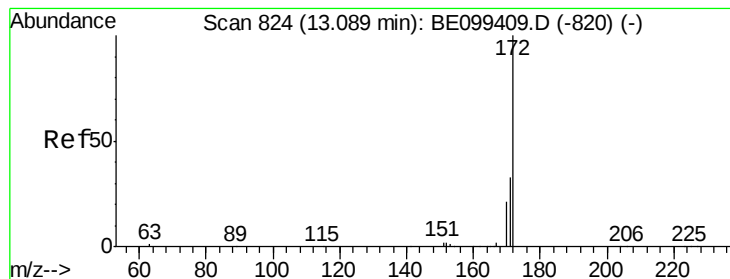
Tot Ion:164 Resp: 7573
 Ion Ratio Lower Upper
 164 100
 162 95.1 79.0 118.4
 160 45.8 37.0 55.4



#14
 2,4,6-Tribromophenol
 Concen: 0.444 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099448.D
 Acq: 1 May 2019 4:50

Tgt Ion:330 Resp: 2116
 Ion Ratio Lower Upper
 330 100
 332 94.0 71.5 107.3
 141 29.8 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.324 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

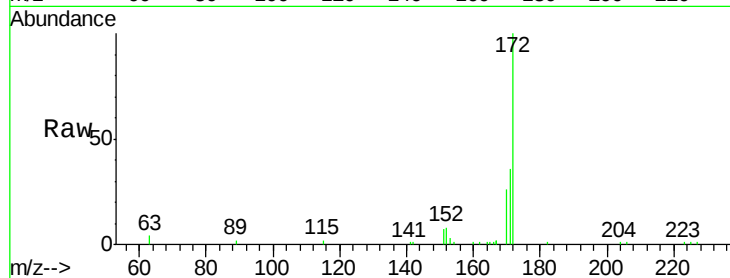
Tot Ion:172 Resp: 9349

Ion Ratio Lower Upper

172 100

171 35.6 26.6 39.8

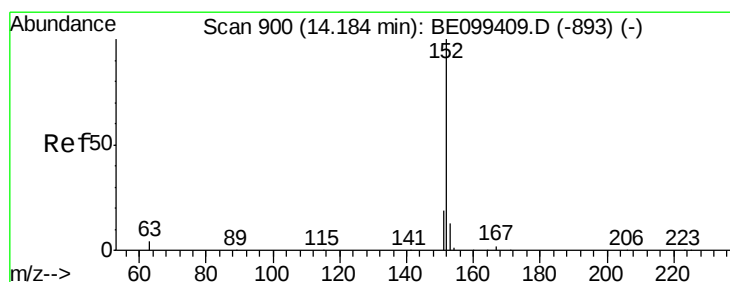
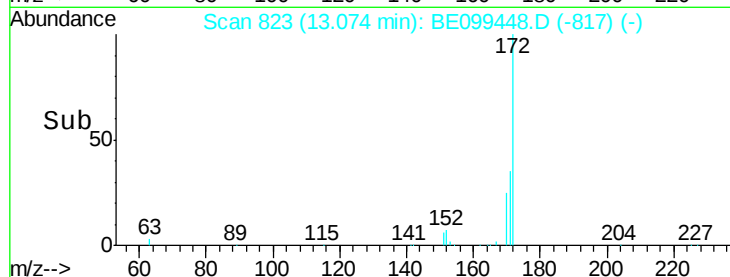
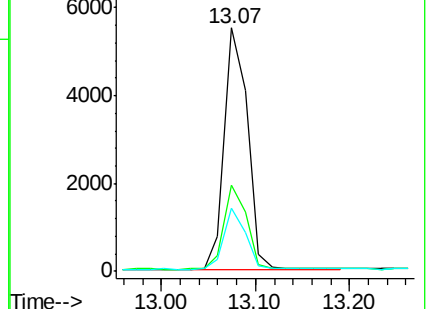
170 25.8 17.0 25.6#



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: 0.022 ng

RT: 14.18 min Scan# 900

Delta R.T. 0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

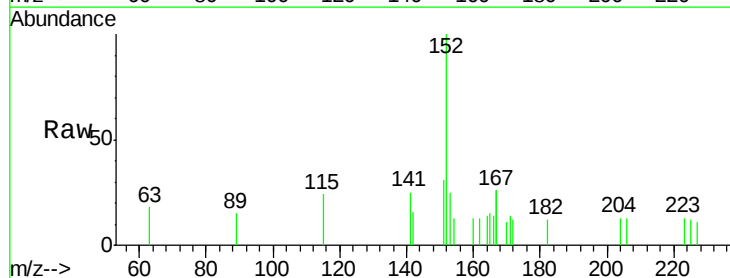
Tgt Ion:152 Resp: 818

Ion Ratio Lower Upper

152 100

151 28.2 15.4 23.2#

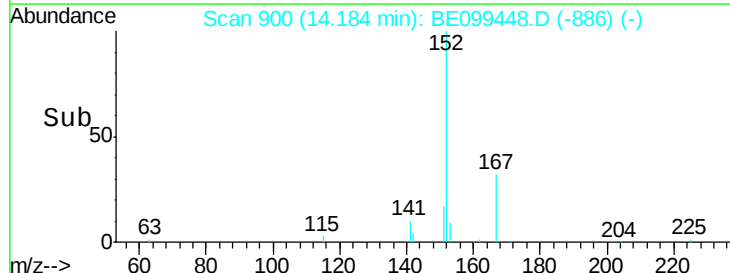
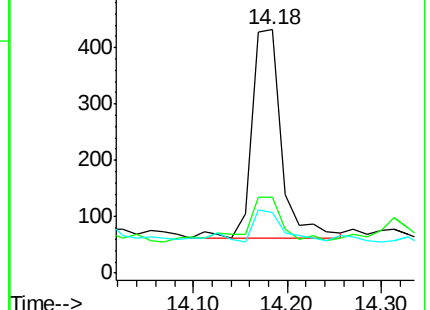
153 17.1 9.8 14.6#

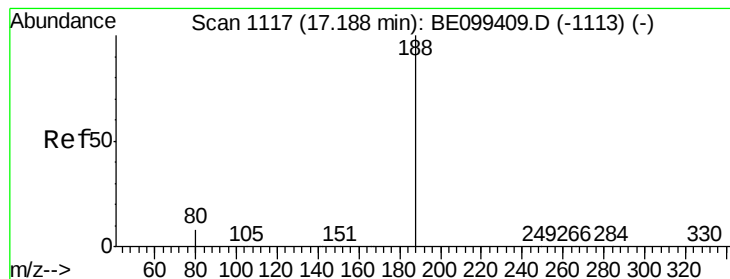


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

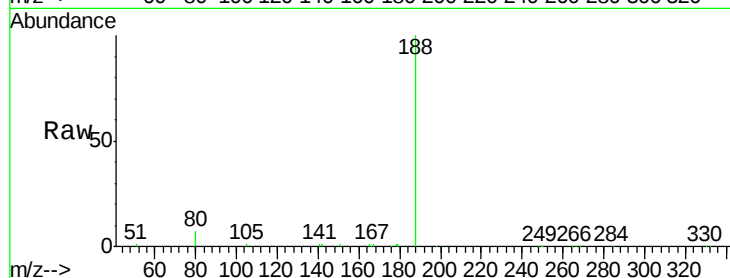
Tot Ion:188 Resp: 24926

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

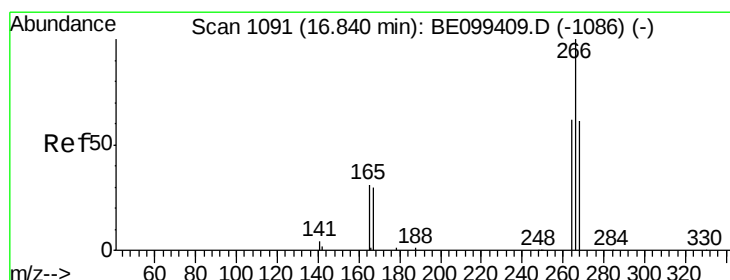
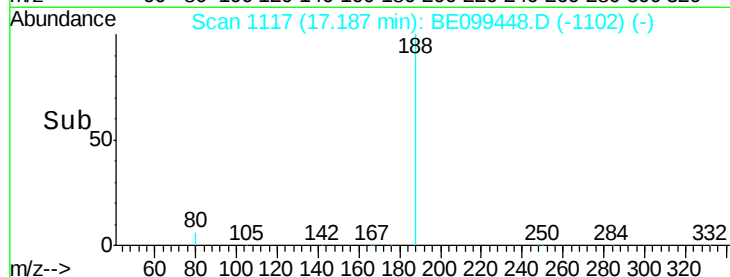
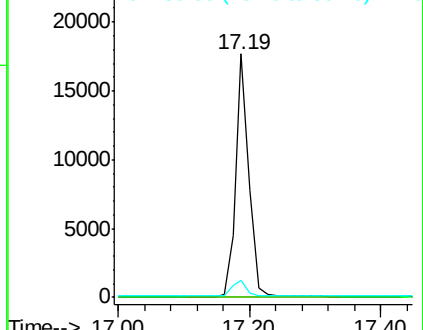
80 6.9 6.7 10.1



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: 0.219 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

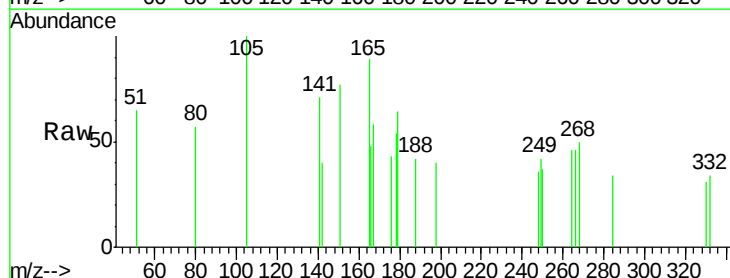
Tgt Ion:266 Resp: 27

Ion Ratio Lower Upper

266 100

264 100.0 50.8 76.2#

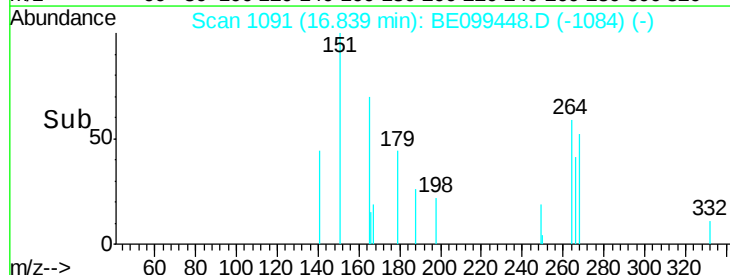
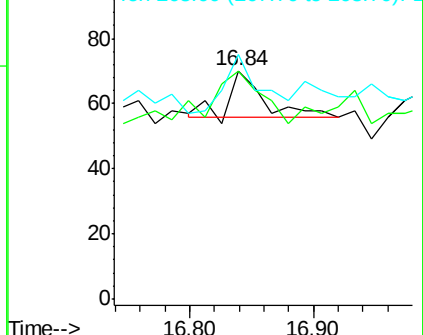
268 107.1 50.5 75.7#

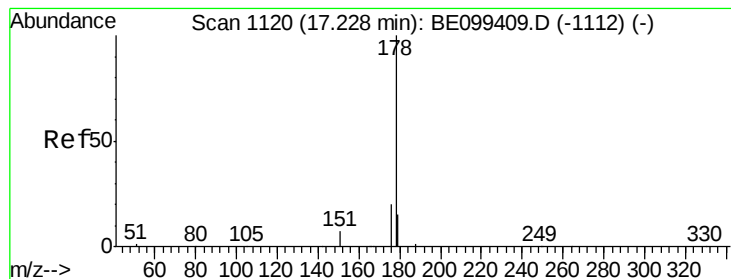


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.063 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

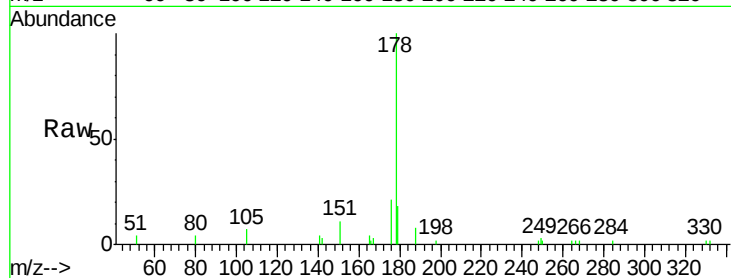
Tot Ion:178 Resp: 4048

Ion Ratio Lower Upper

178 100

176 20.2 15.6 23.4

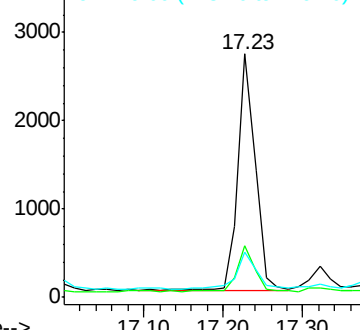
179 18.1 12.0 18.0#



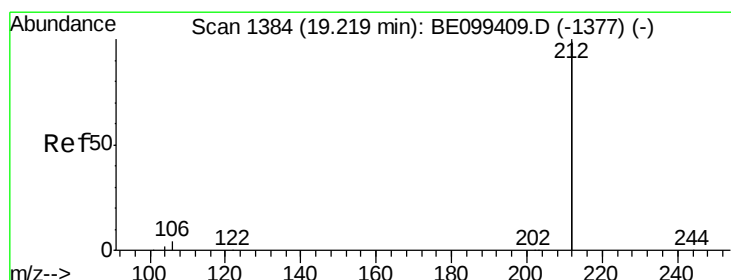
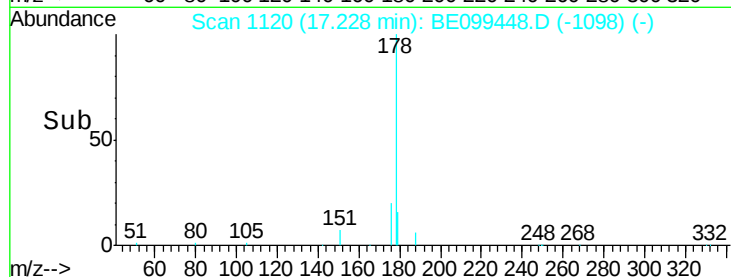
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene-d10

Concen: 0.340 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

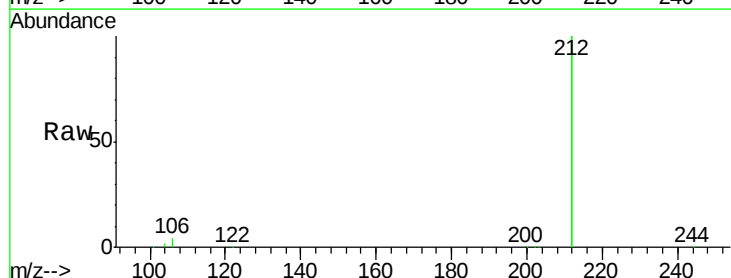
Tgt Ion:212 Resp: 114242

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

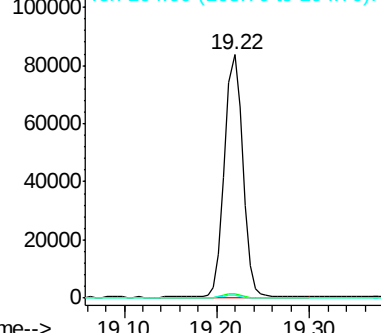
104 1.1 0.9 1.3



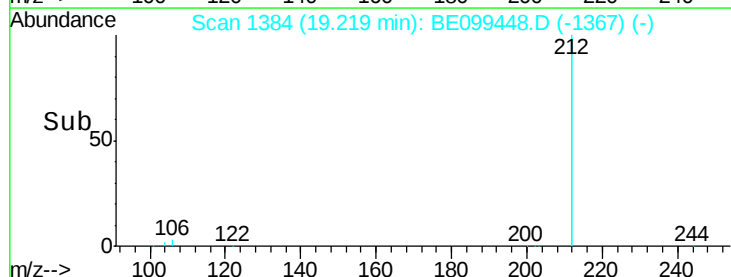
Abundance Ion 212.00 (211.70 to 212.70): E

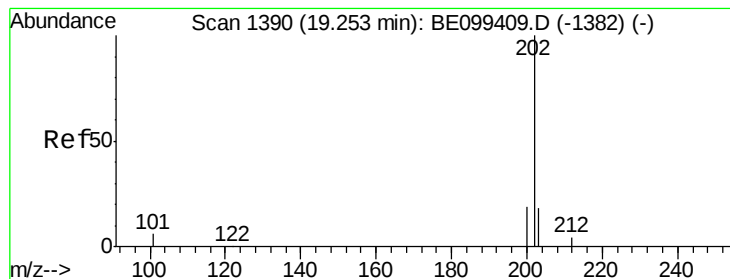
Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->





#26

Fluoranthene

Concen: 0.060 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

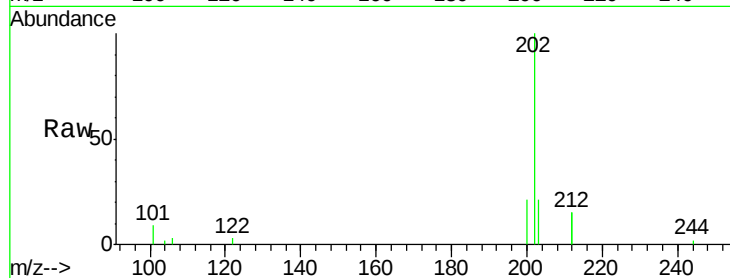
Tot Ion:202 Resp: 5773

Ion Ratio Lower Upper

202 100

101 7.3 5.4 8.0

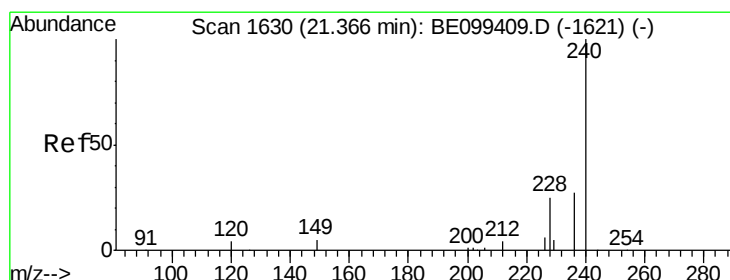
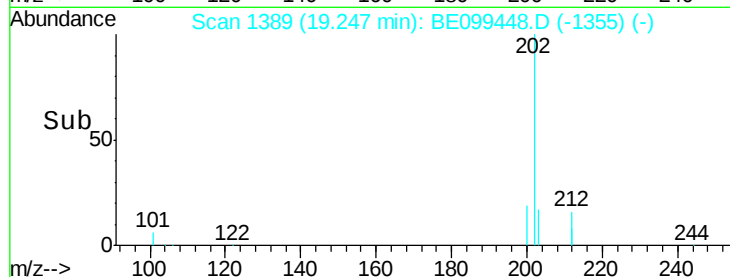
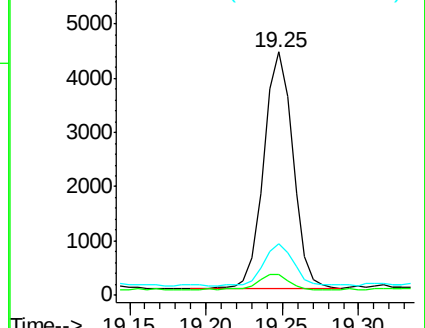
203 18.8 13.9 20.9



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# 1630

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

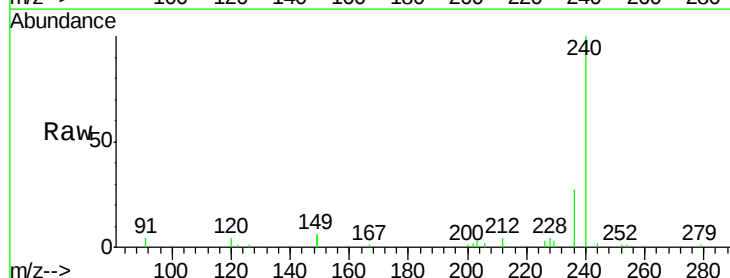
Tgt Ion:240 Resp: 29398

Ion Ratio Lower Upper

240 100

120 3.8 4.0 6.0#

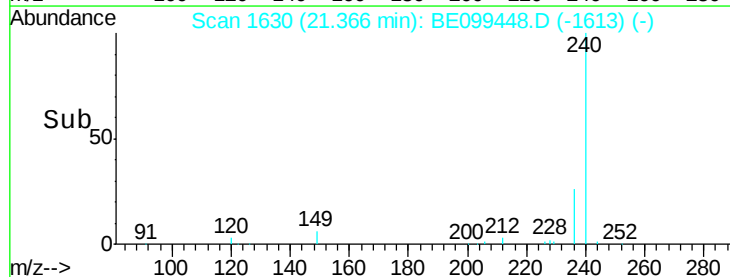
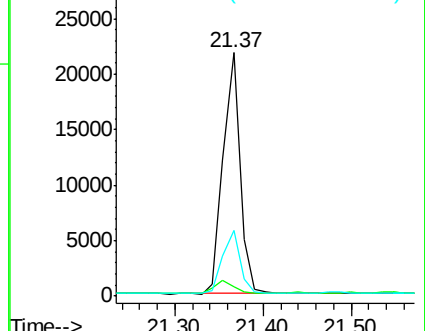
236 27.1 22.0 33.0

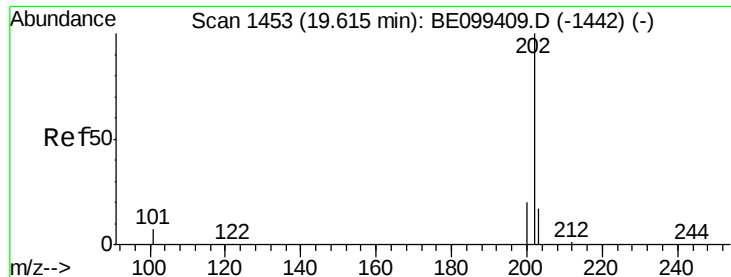


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

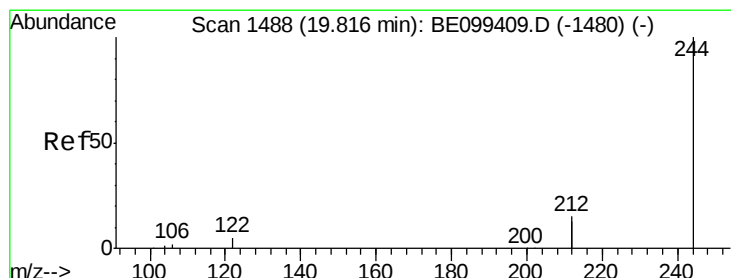
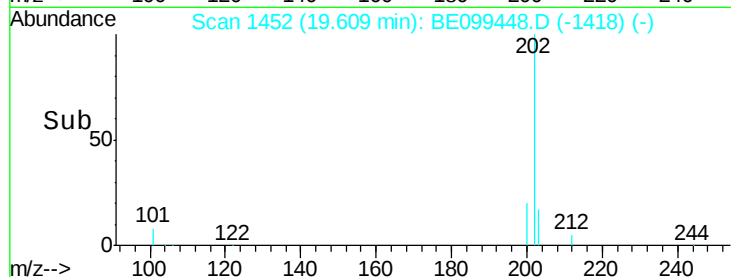
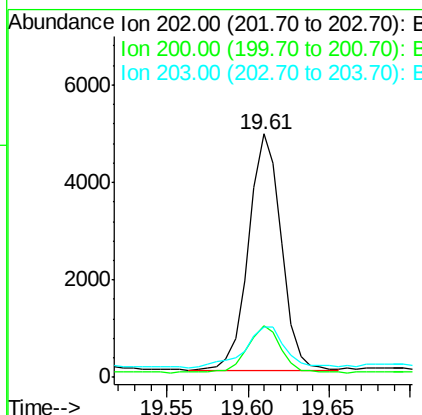
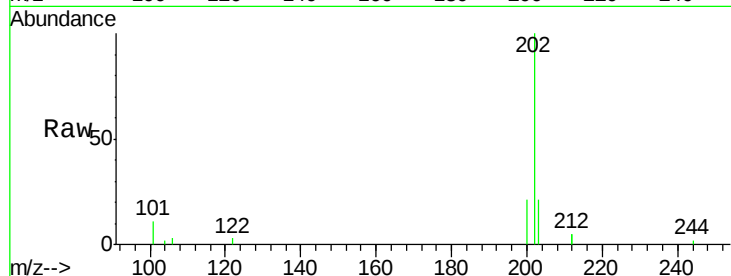




#28
Pvrene
Concen: 0.089 ng
RT: 19.61 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BE099448.D
Acq: 1 May 2019 4:50

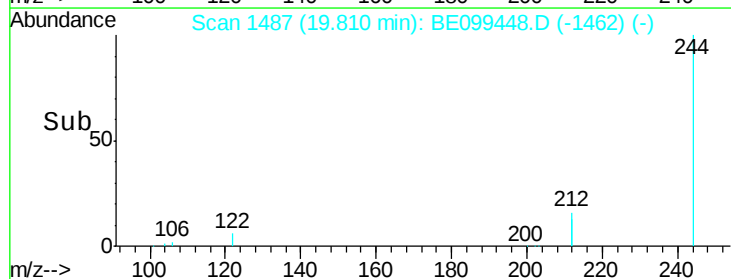
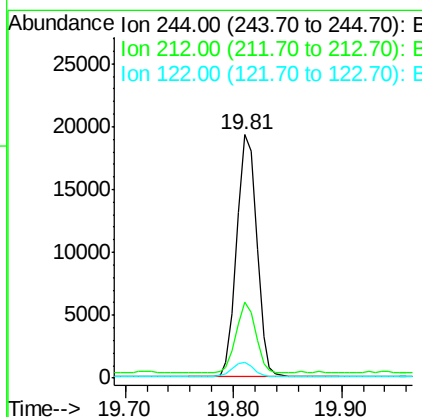
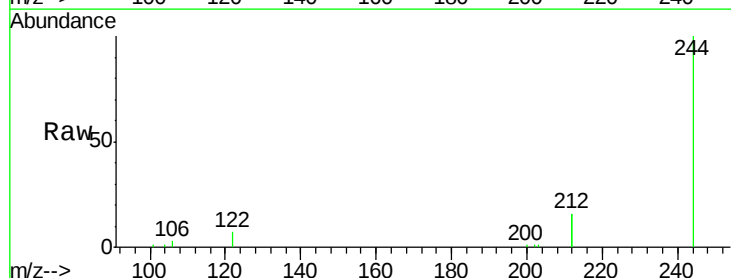
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW046-042219

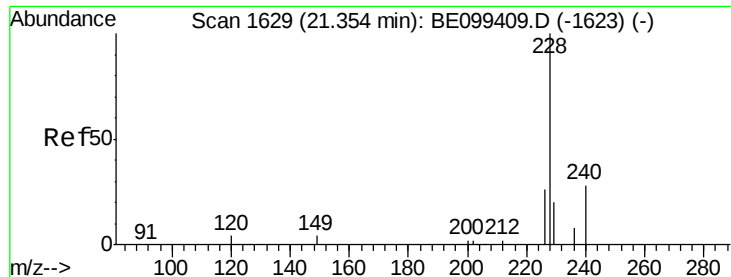
Tot Ion:202 Resp: 6848
Ion Ratio Lower Upper
202 100
200 20.4 15.7 23.5
203 20.8 13.9 20.9



#29
Terphenyl-d14
Concen: 0.458 ng
RT: 19.81 min Scan# 1487
Delta R.T. -0.01 min
Lab File: BE099448.D
Acq: 1 May 2019 4:50

Tgt Ion:244 Resp: 24662
Ion Ratio Lower Upper
244 100
212 31.2 23.2 34.8
122 6.6 4.2 6.4#





#30

Benzo(a)anthracene

Concen: 0.038 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

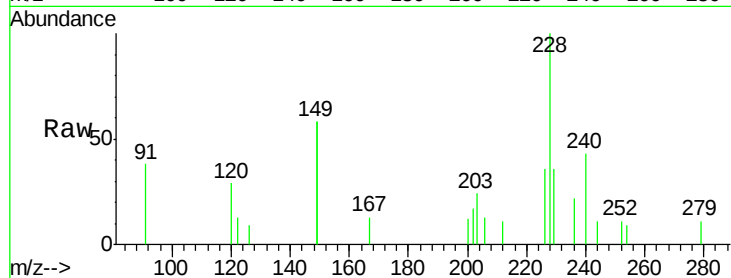
Tot Ion:228 Resp: 3582

Ion Ratio Lower Upper

228 100

226 36.5 21.0 31.6#

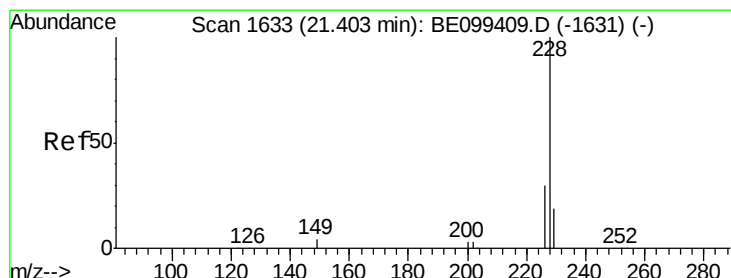
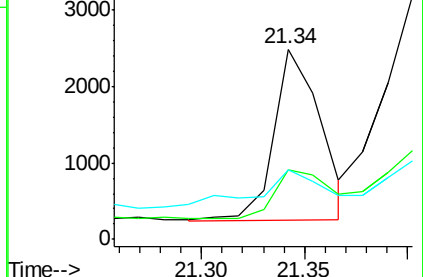
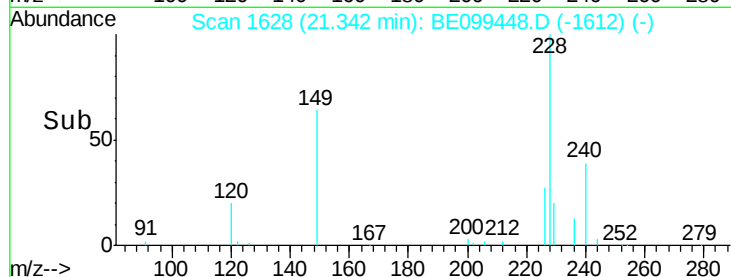
229 36.2 16.6 25.0#



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: 0.051 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

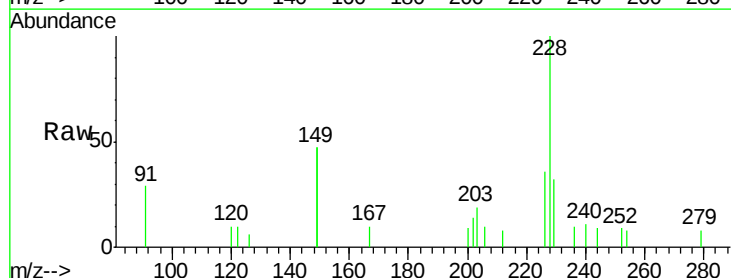
Tgt Ion:228 Resp: 4674

Ion Ratio Lower Upper

228 100

226 36.3 24.0 36.0#

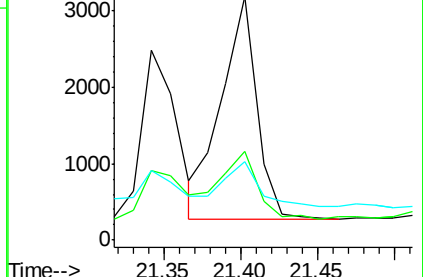
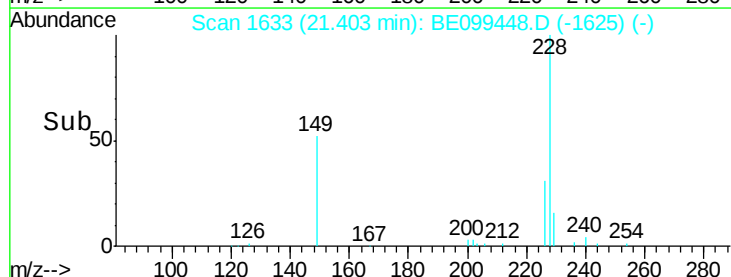
229 32.5 15.8 23.8#

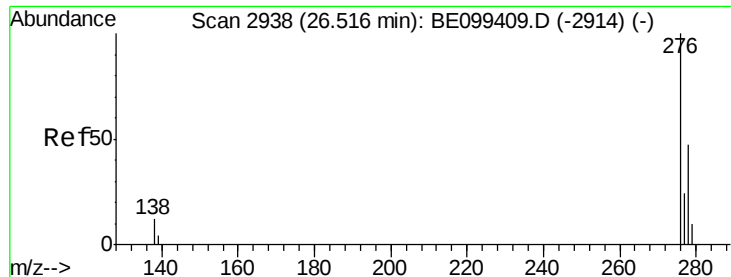


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.026 ng

RT: 26.51 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

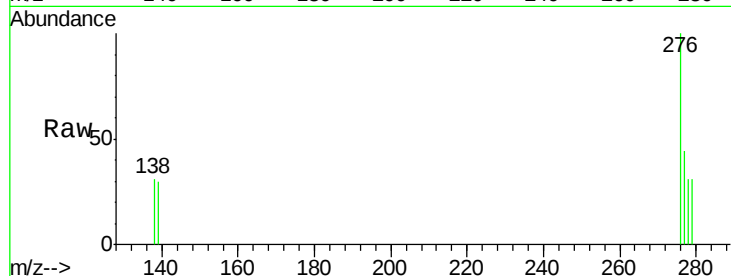
Tot Ion:276 Resp: 2778

Ion Ratio Lower Upper

276 100

138 9.8 10.2 15.2#

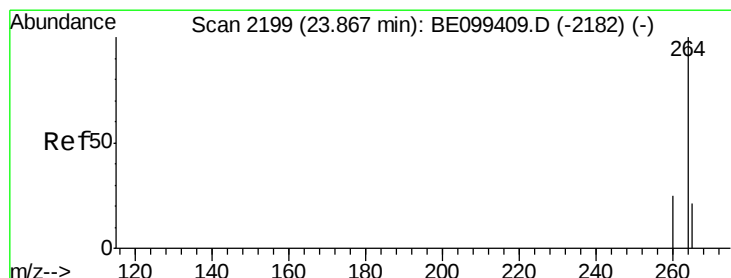
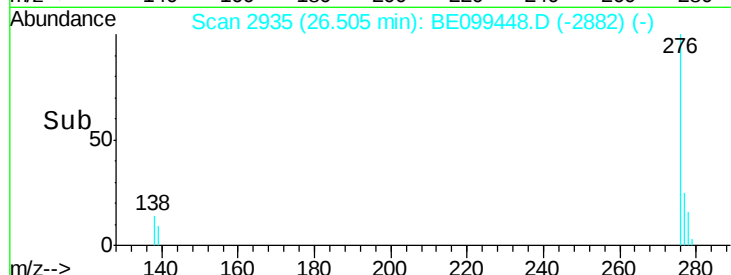
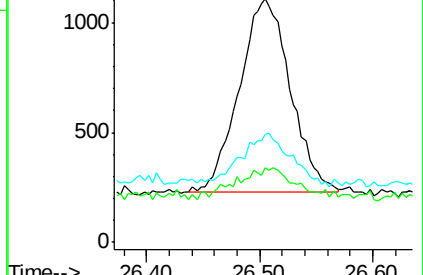
277 27.4 19.2 28.8



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

Perylene-d12

Concen: 0.400 ng

RT: 23.87 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

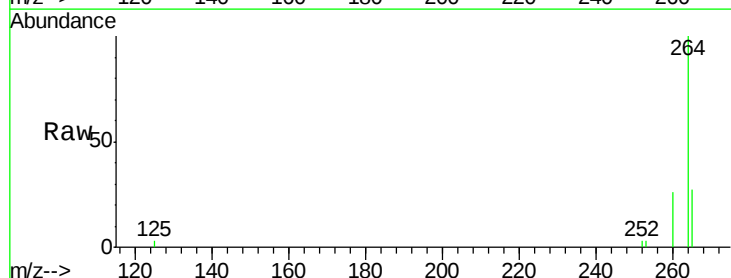
Tgt Ion:264 Resp: 33943

Ion Ratio Lower Upper

264 100

260 25.5 20.2 30.2

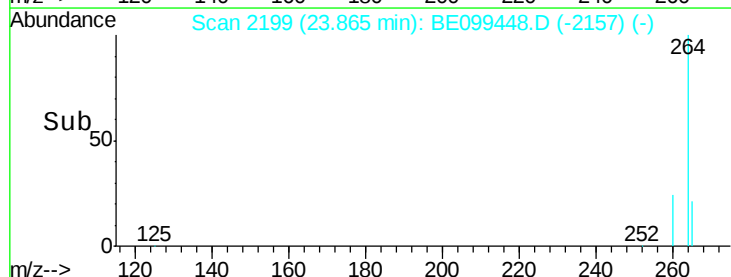
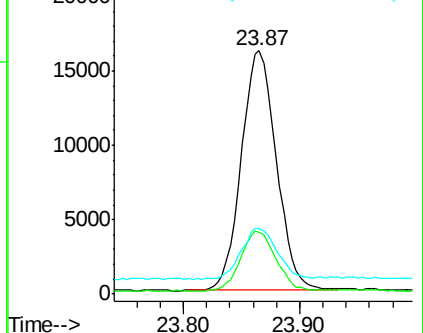
265 27.2 21.3 31.9

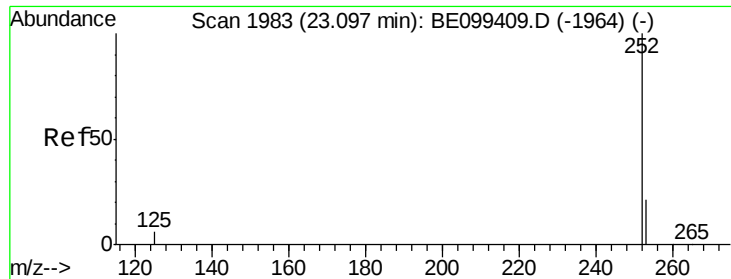


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.055 ng

RT: 23.10 min Scan# 1983

Delta R.T. -0.00 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

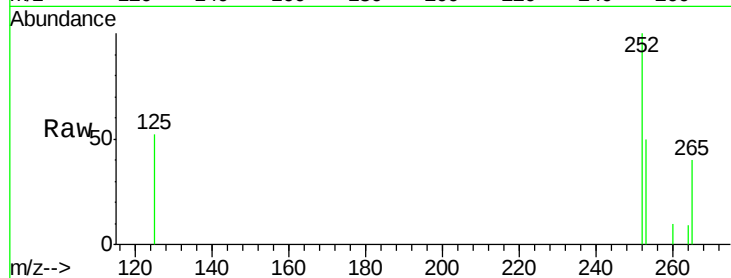
Tot Ion:252 Resp: 5414

Ion Ratio Lower Upper

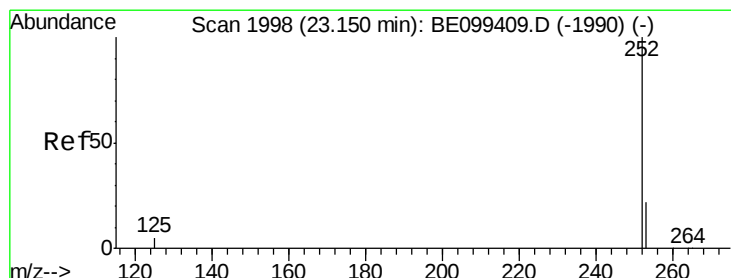
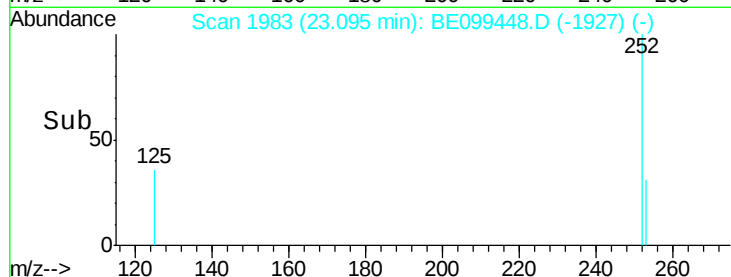
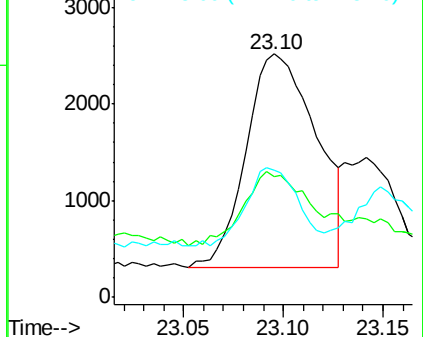
252 100

253 49.5 18.1 27.1#

125 52.2 5.6 8.4#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.057 ng

RT: 23.10 min Scan# 1983

Delta R.T. -0.05 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

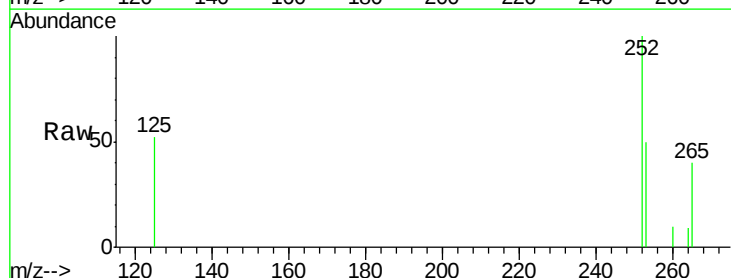
Tgt Ion:252 Resp: 5414

Ion Ratio Lower Upper

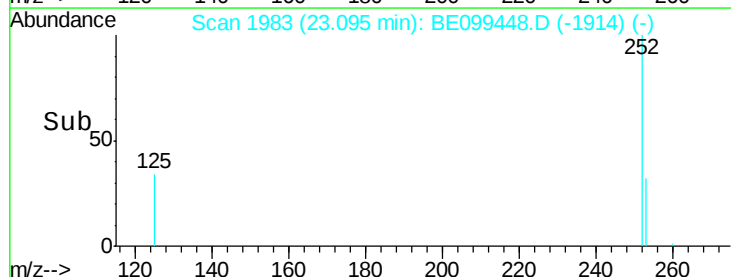
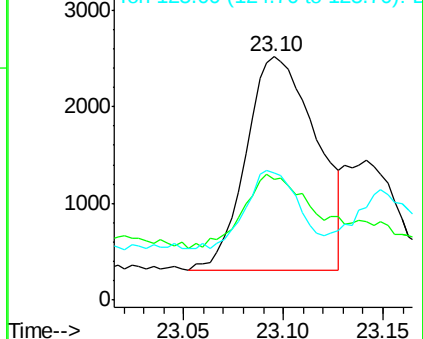
252 100

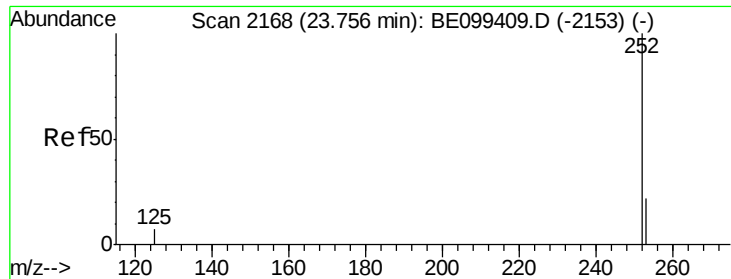
253 49.5 18.4 27.6#

125 52.2 5.0 7.4#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.039 ng

RT: 23.75 min Scan# 2166

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW046-042219

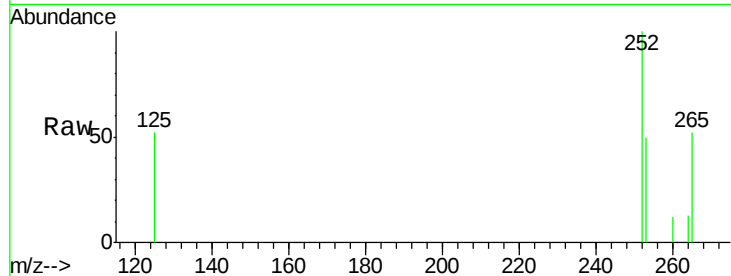
Tot Ion:252 Resp: 3621

Ion Ratio Lower Upper

252 100

253 50.3 18.9 28.3#

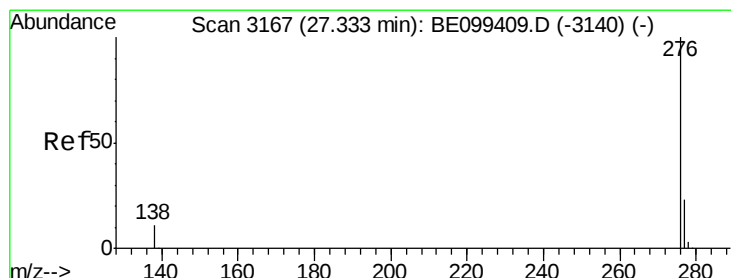
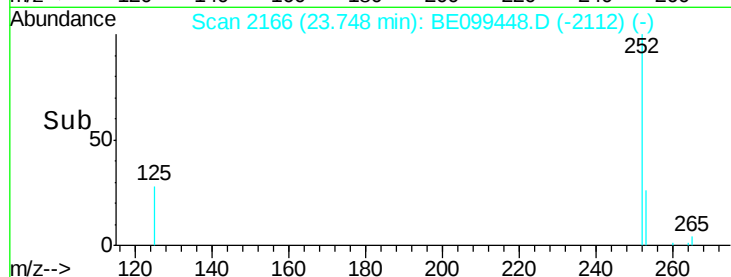
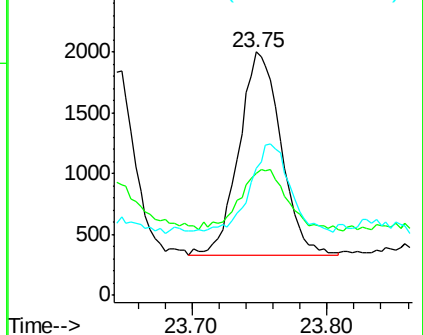
125 52.3 6.7 10.1#



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



#39

Benzo(g,h,i)perylene

Concen: 0.034 ng

RT: 27.33 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BE099448.D

Acq: 1 May 2019 4:50

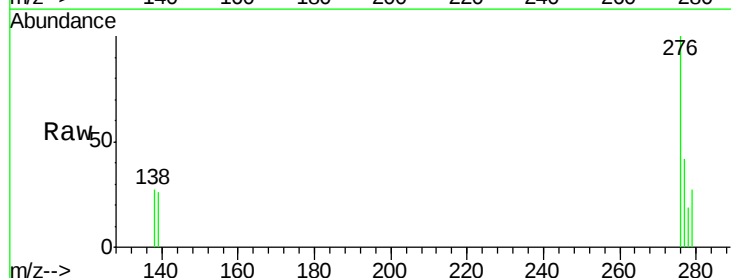
Tgt Ion:276 Resp: 3203

Ion Ratio Lower Upper

276 100

277 41.6 19.5 29.3#

138 26.5 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

