

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099446.D
 Acq On : 1 May 2019 3:39
 Operator : JU/SJ
 Sample : K2568-08MS
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW045-042219MS

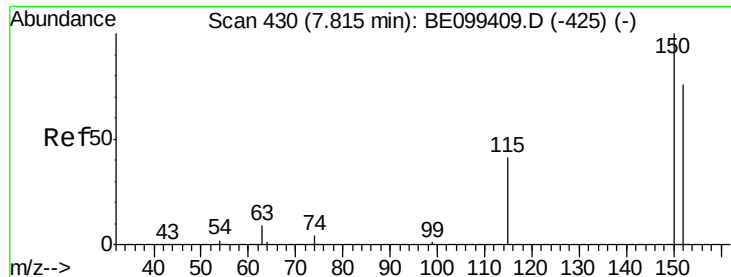
Quant Time: May 01 06:56:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	2671	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9799	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	6954	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	21938	0.40	ng	0.00
27) Chrysene-d12	21.37	240	31084	0.40	ng	0.00
34) Perylene-d12	23.86	264	35993	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	2363	0.32	ng	0.00
5) Phenol-d6	6.97	99	3529	0.36	ng	0.00
8) Nitrobenzene-d5	8.96	82	2913	0.32	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	7081	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1507	0.34	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	7693	0.29	ng	-0.02
25) Fluoranthene-d10	19.22	212	90662	0.31	ng	0.00
29) Terphenyl-d14	19.81	244	18939	0.33	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.32	88	921	0.251	ng	# 78
3) n-Nitrosodimethylamine	3.64	42	695	0.314	ng	# 99
6) bis(2-Chloroethyl)ether	7.23	93	2638	0.311	ng	96
9) Naphthalene	10.65	128	35357	0.331	ng	100
10) Hexachlorobutadiene	10.93	225	2182	0.294	ng	98
12) 2-Methylnaphthalene	12.27	142	6154	0.331	ng	98
16) Acenaphthylene	14.18	152	11164	0.328	ng	99
17) Acenaphthene	14.51	154	6217	0.320	ng	99
18) Fluorene	15.49	166	9329	0.325	ng	98
20) 4-Bromophenyl-phenylether	16.38	248	3793	0.297	ng	# 90
21) Hexachlorobenzene	16.49	284	3723	0.306	ng	99
22) Pentachlorophenol	16.84	266	5459	0.961	ng	98
23) Phenanthrene	17.23	178	25787	0.456	ng	100
24) Anthracene	17.32	178	19514	0.362	ng	100
26) Fluoranthene	19.25	202	45973	0.542	ng	100
28) Pyrene	19.61	202	47523	0.587	ng	98
30) Benzo(a)anthracene	21.34	228	49144	0.496	ng	97
31) Chrysene	21.40	228	45247	0.467	ng	98
32) Bis(2-ethylhexyl)phthalate	21.27	149	62832	0.378	ng	99
33) Indeno(1,2,3-cd)pyrene	26.51	276	47358	0.413	ng	99
35) Benzo(b)fluoranthene	23.09	252	46336	0.446	ng	# 93
36) Benzo(k)fluoranthene	23.14	252	41566	0.415	ng	# 93
37) Benzo(a)pyrene	23.75	252	42298	0.431	ng	# 96
38) Dibenzo(a,h)anthracene	26.53	278	36265	0.361	ng	97
39) Benzo(g,h,i)perylene	27.32	276	41509	0.413	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

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ClientSampleId :

EXT-026-SW045-042219MS

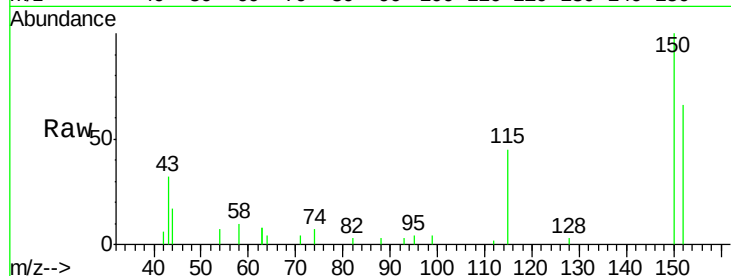
Tot Ion:152 Resp: 2671

Ion Ratio Lower Upper

152 100

150 151.7 104.8 157.2

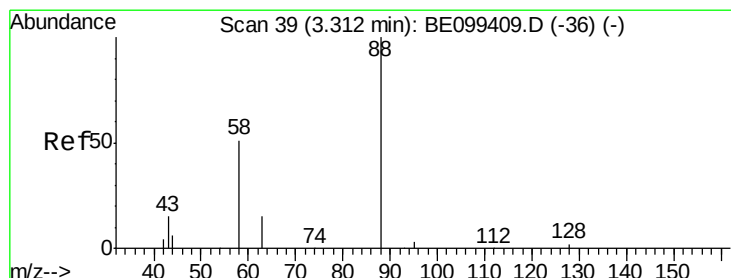
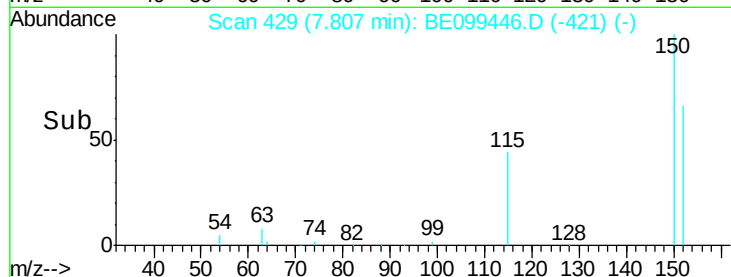
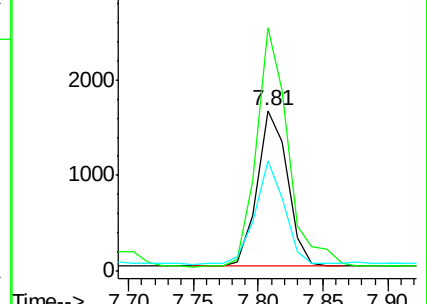
115 68.8 46.6 69.8



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: 0.251 ng

RT: 3.32 min Scan# 39

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

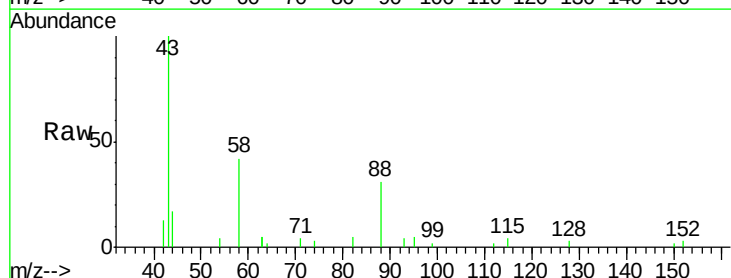
Tgt Ion: 88 Resp: 921

Ion Ratio Lower Upper

88 100

58 61.1 51.0 76.6

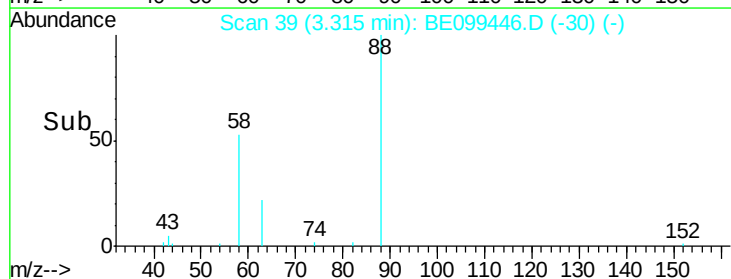
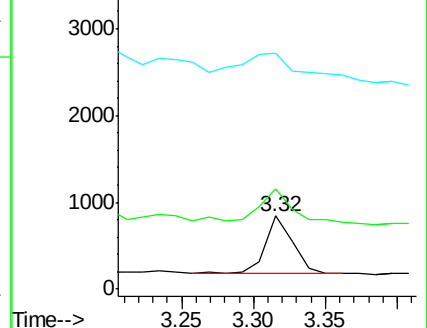
43 60.9 20.6 30.8#

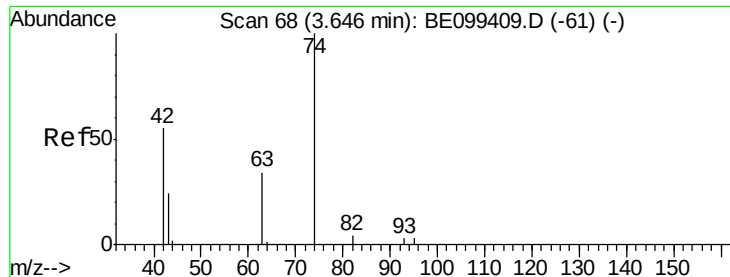


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.314 ng

RT: 3.64 min Scan# 67

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

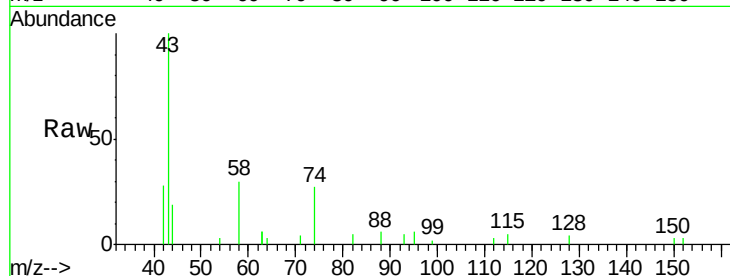
Tot Ion: 42 Resp: 695

Ion Ratio Lower Upper

42 100

74 178.8 141.6 212.4

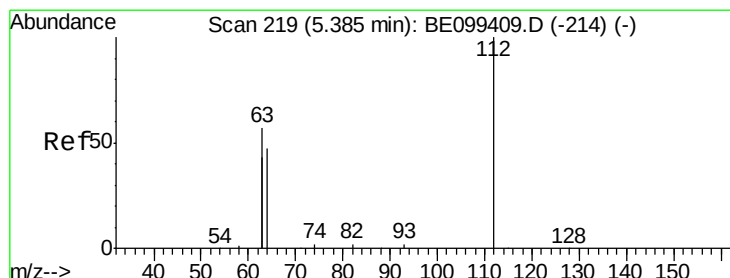
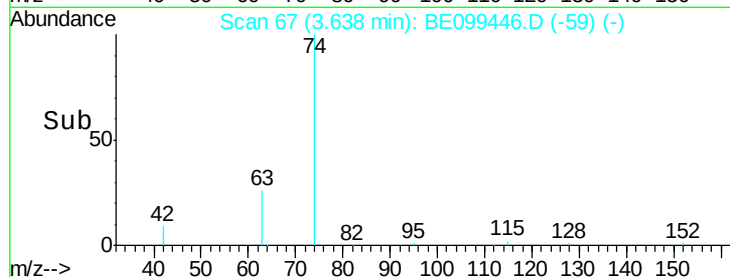
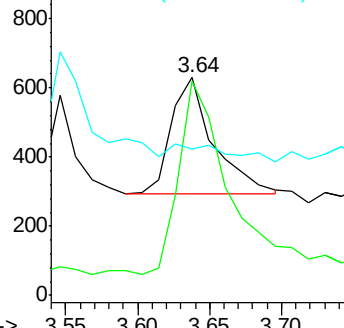
44 19.4 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.320 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

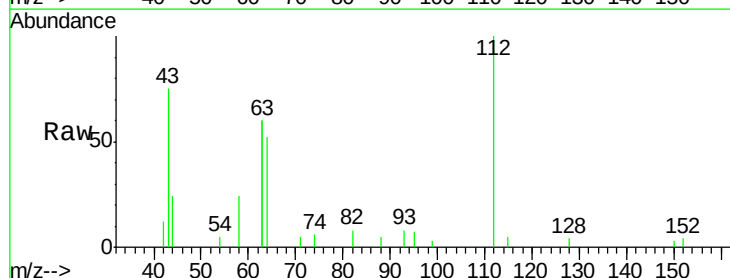
Tgt Ion: 112 Resp: 2363

Ion Ratio Lower Upper

112 100

64 59.6 47.4 71.0

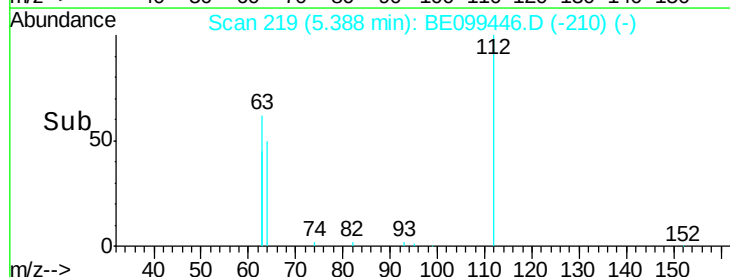
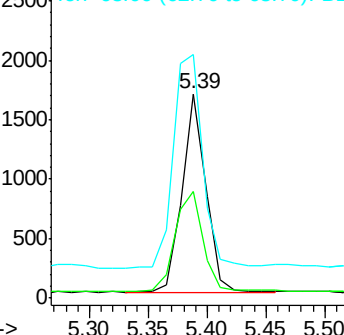
63 133.2 104.3 156.5

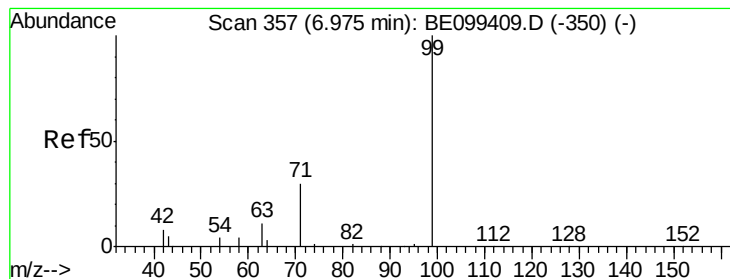


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.359 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

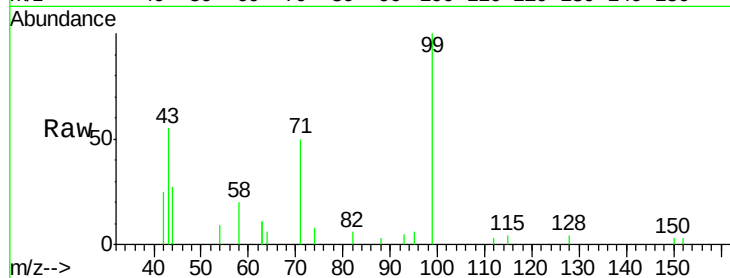
Tot Ion: 99 Resp: 3529

Ion Ratio Lower Upper

99 100

42 22.8 14.9 22.3#

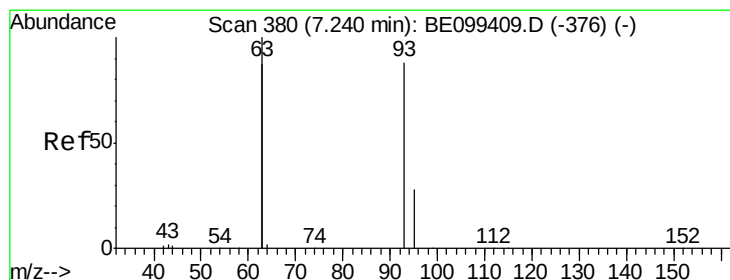
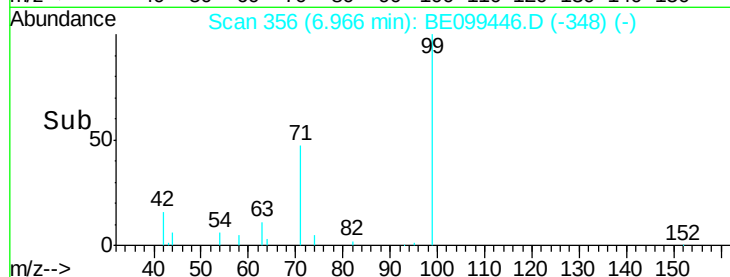
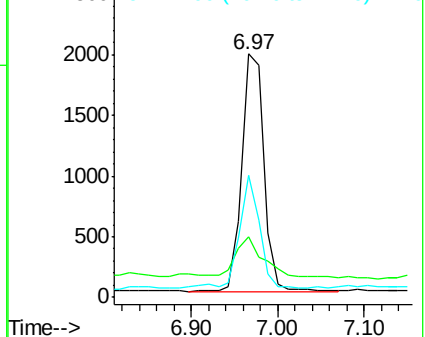
71 41.0 33.0 49.6



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



#6

bis(2-Chloroethyl)ether

Concen: 0.311 ng

RT: 7.23 min Scan# 379

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

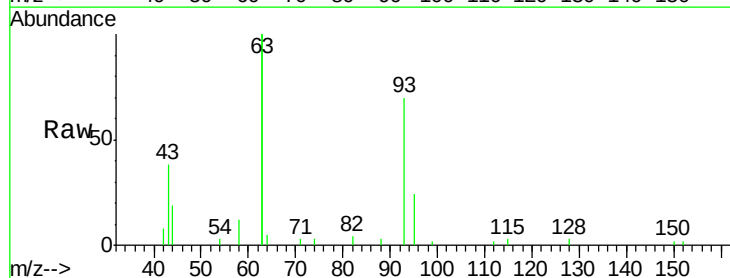
Tgt Ion: 93 Resp: 2638

Ion Ratio Lower Upper

93 100

63 262.6 215.6 323.4

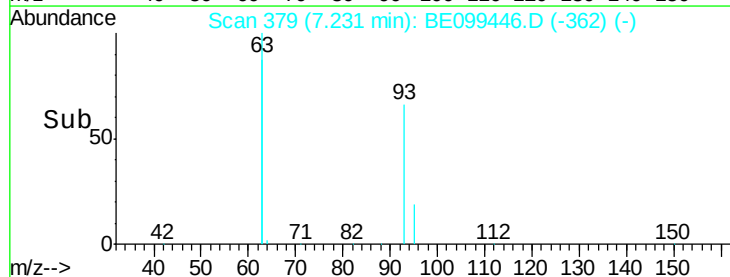
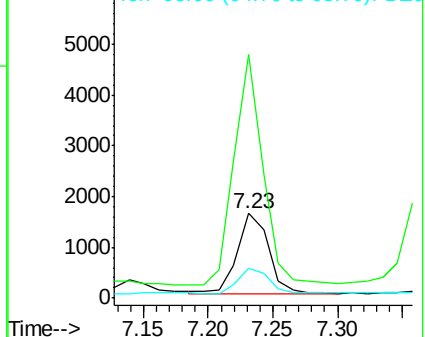
95 33.7 26.2 39.2

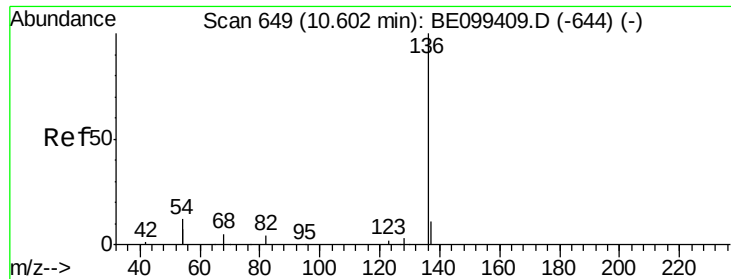


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

Tot Ion:136 Resp: 9799

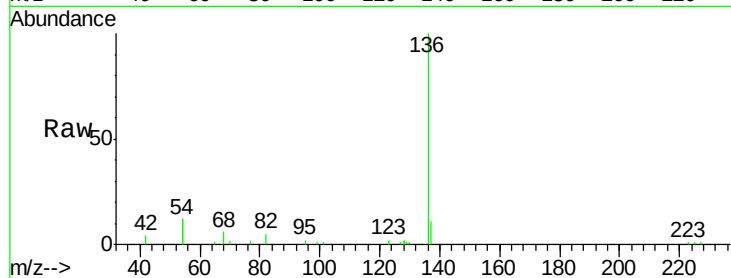
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 24.4 18.5 27.7

68 6.1 4.7 7.1

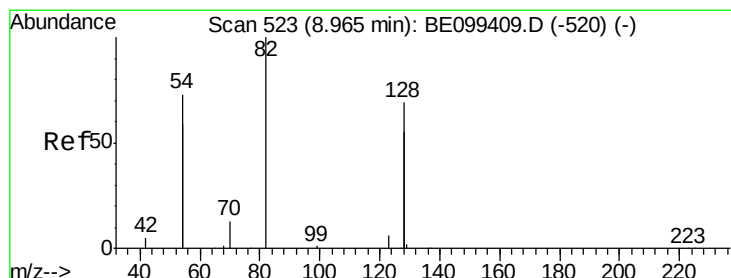
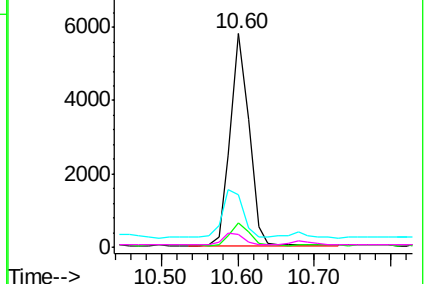
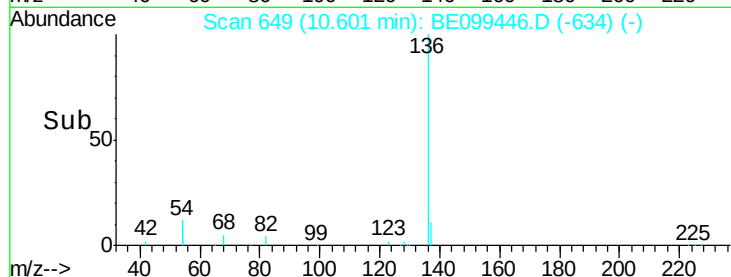


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.317 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

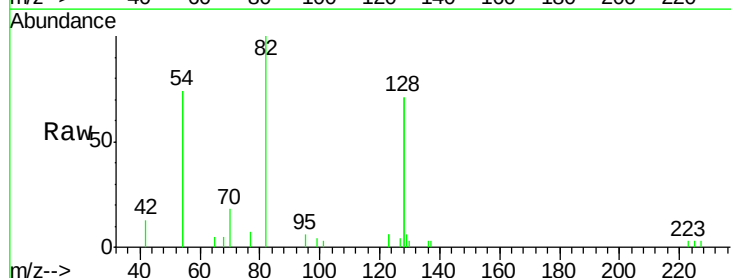
Tgt Ion: 82 Resp: 2913

Ion Ratio Lower Upper

82 100

128 141.7 107.0 160.4

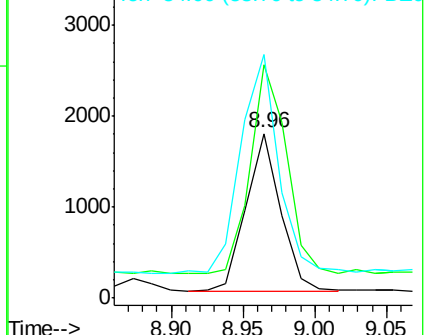
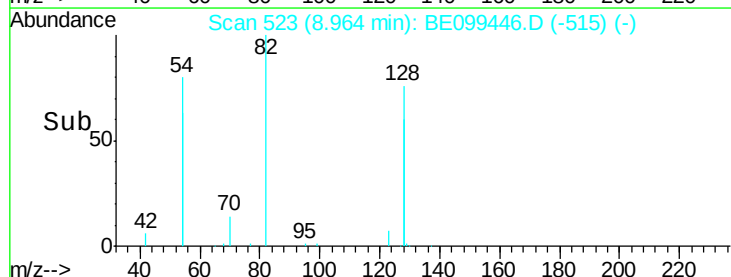
54 148.1 113.1 169.7

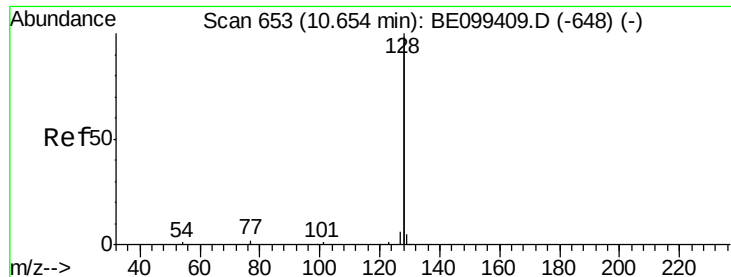


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.331 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

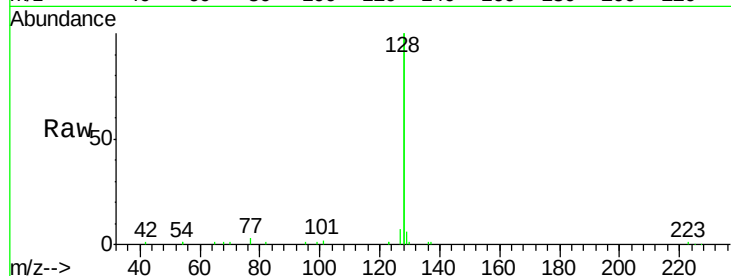
Tot Ion:128 Resp: 35357

Ion Ratio Lower Upper

128 100

129 3.0 2.4 3.6

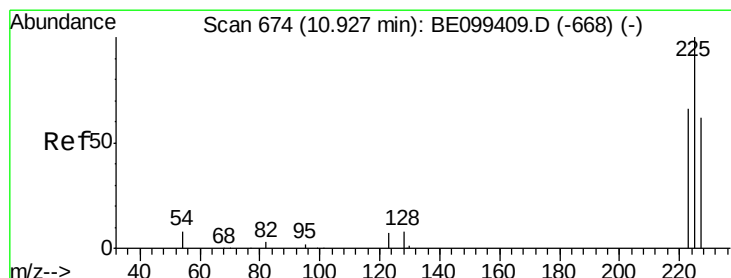
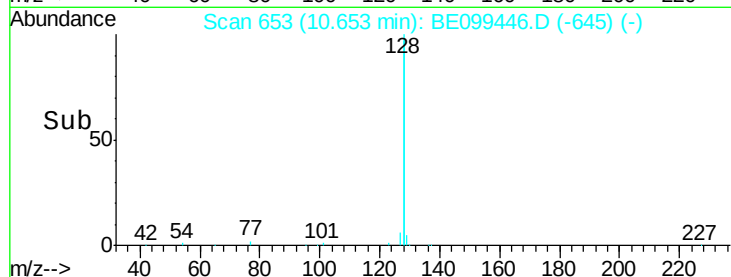
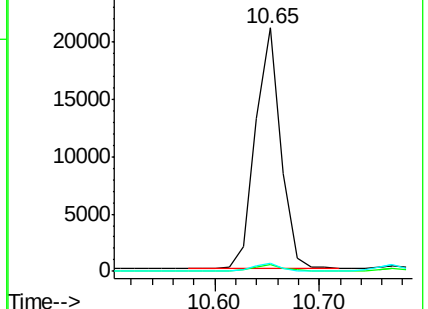
127 3.4 2.8 4.2



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



#10

Hexachlorobutadiene

Concen: 0.294 ng

RT: 10.93 min Scan# 674

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

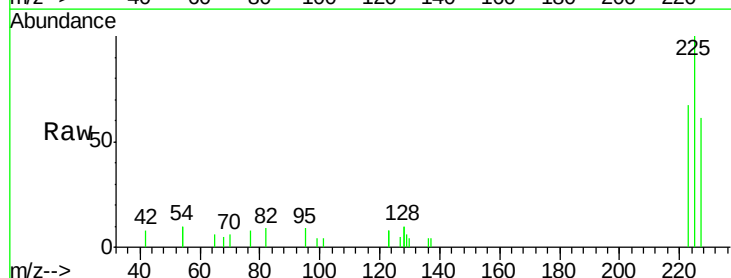
Tgt Ion:225 Resp: 2182

Ion Ratio Lower Upper

225 100

223 65.2 51.0 76.6

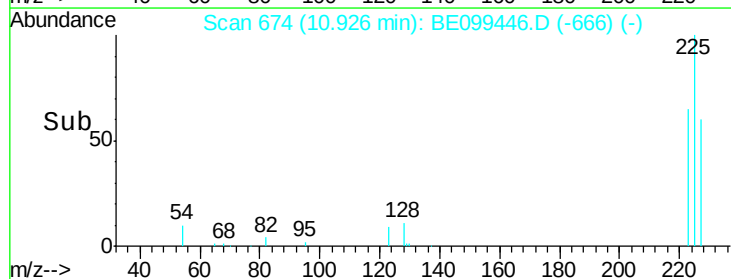
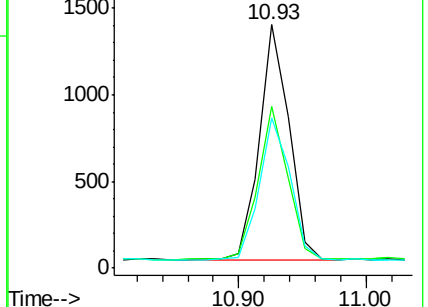
227 62.6 50.9 76.3

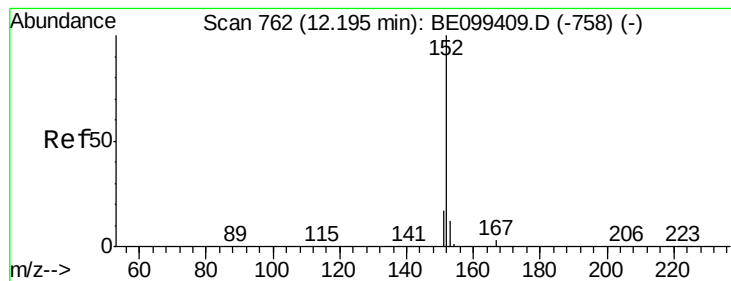


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

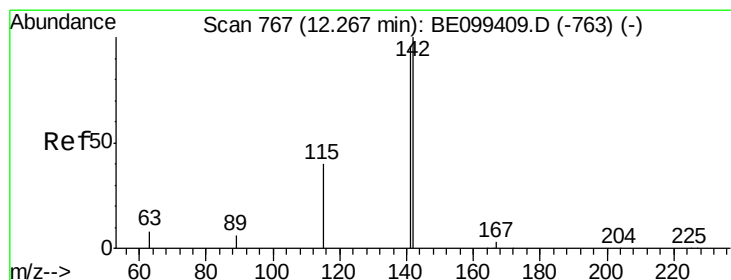
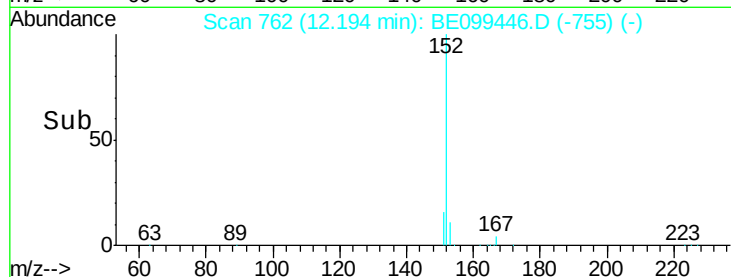
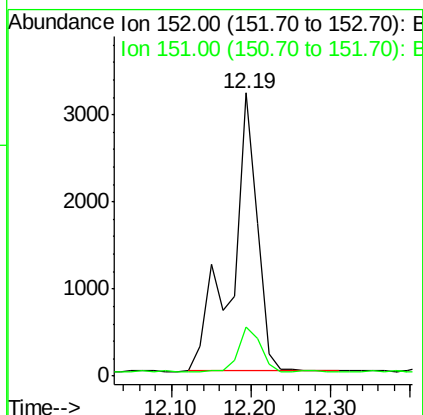
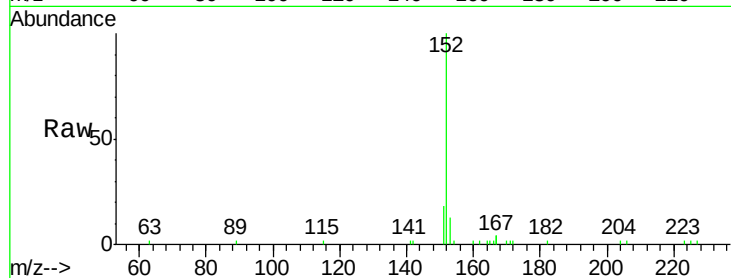




#11
 2-Methylnaphthalene-d10
 Concen: 0.401 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099446.D
 Acq: 1 May 2019 3:39

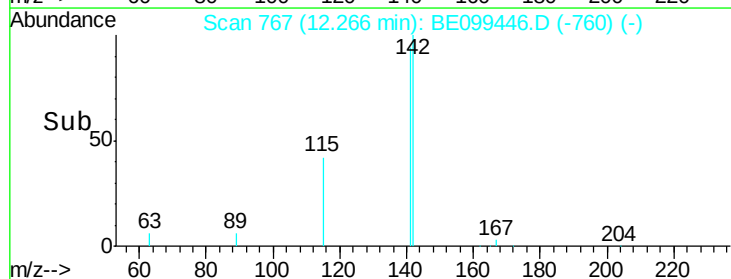
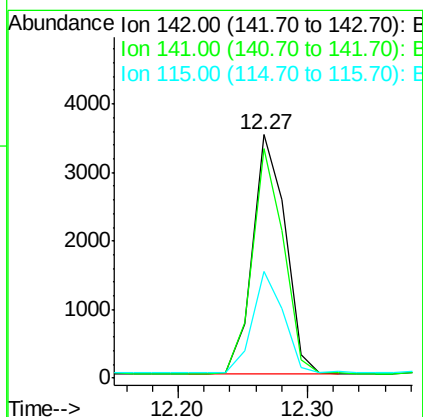
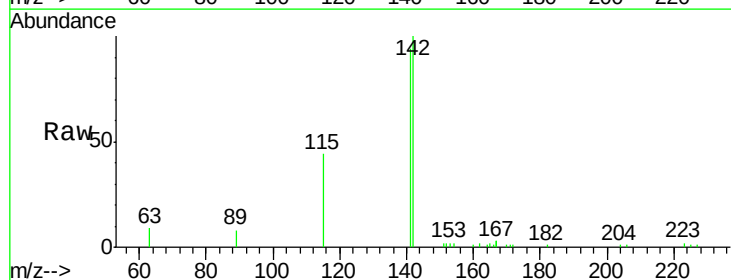
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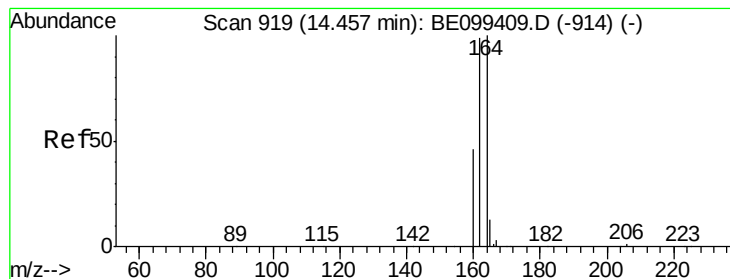
Tot Ion:152 Resp: 7081
 Ion Ratio Lower Upper
 152 100
 151 13.8 15.5 23.3#



#12
 2-Methylnaphthalene
 Concen: 0.331 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE099446.D
 Acq: 1 May 2019 3:39

Tgt Ion:142 Resp: 6154
 Ion Ratio Lower Upper
 142 100
 141 94.1 77.0 115.4
 115 43.7 33.4 50.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

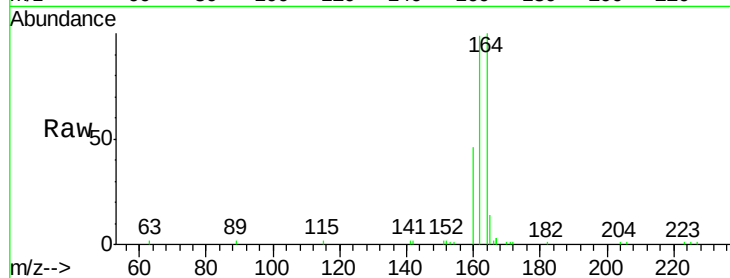
Tot Ion:164 Resp: 6954

Ion Ratio Lower Upper

164 100

162 98.6 79.0 118.4

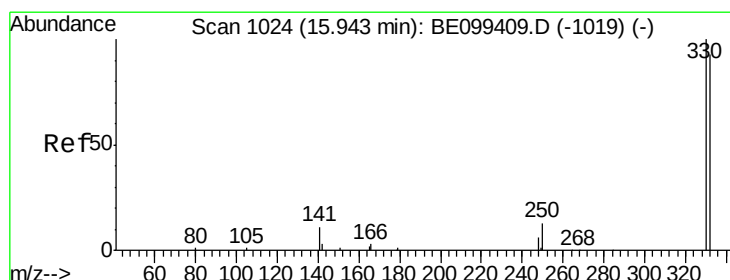
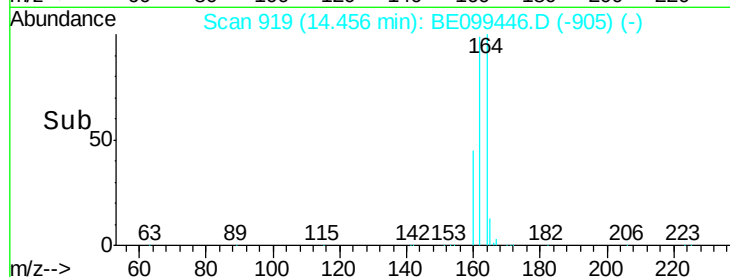
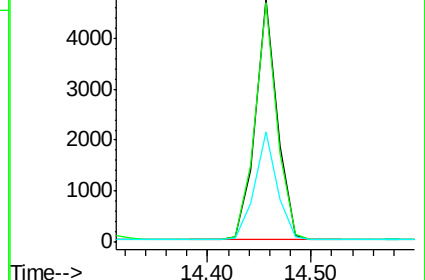
160 45.6 37.0 55.4



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: 0.344 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

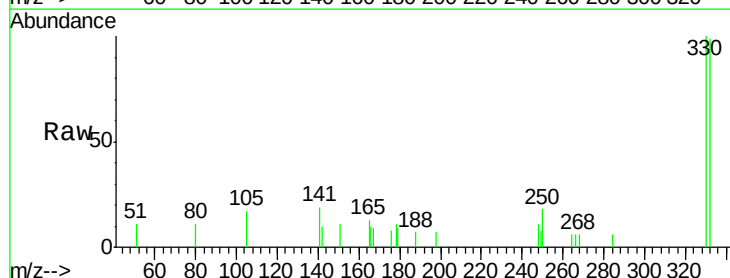
Tgt Ion:330 Resp: 1507

Ion Ratio Lower Upper

330 100

332 95.2 71.5 107.3

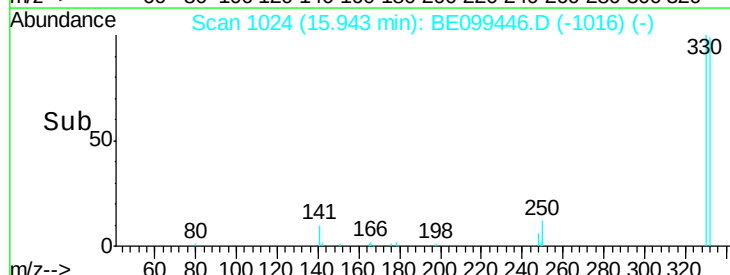
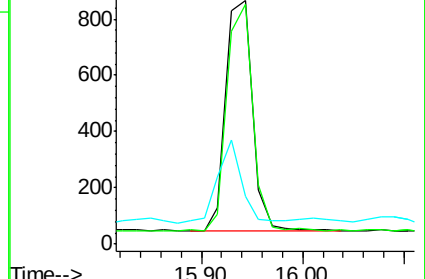
141 31.9 24.0 36.0

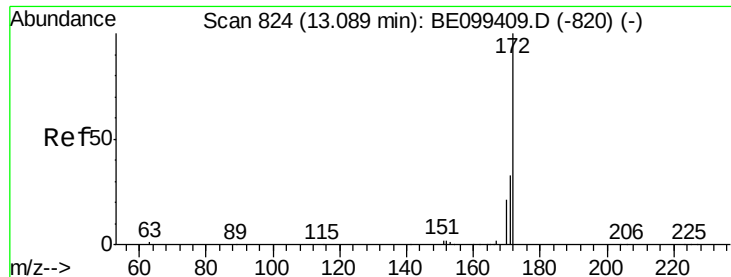


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

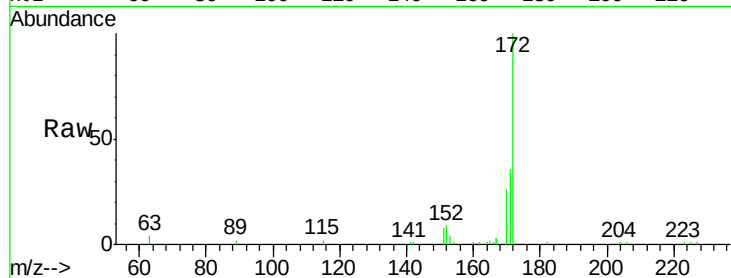




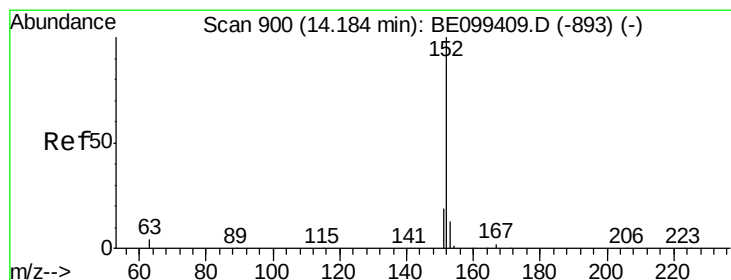
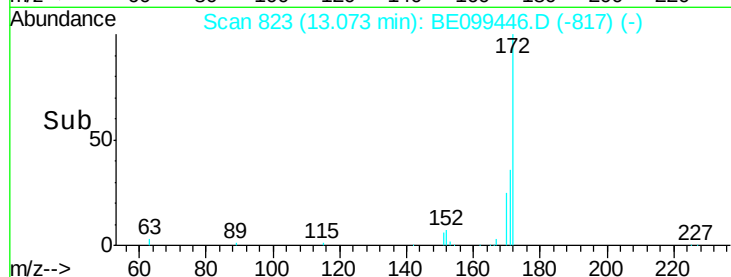
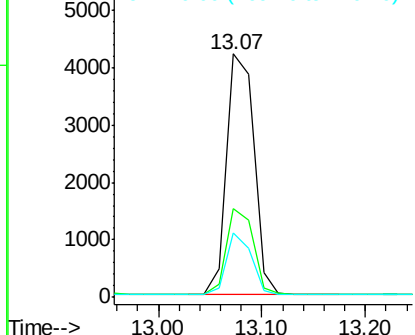
#15
2-Fluorobiphenyl
Concen: 0.290 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.02 min
Lab File: BE099446.D
Acq: 1 May 2019 3:39

Instrument :
BNA_E
ClientSampleId :
EXT-026-SW045-042219MS

Tot Ion:172 Resp: 7693
Ion Ratio Lower Upper
172 100
171 36.5 26.6 39.8
170 26.5 17.0 25.6#

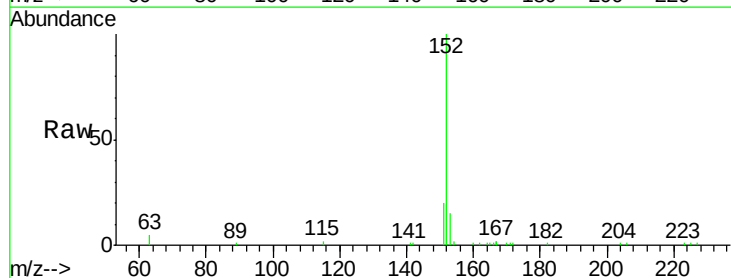


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

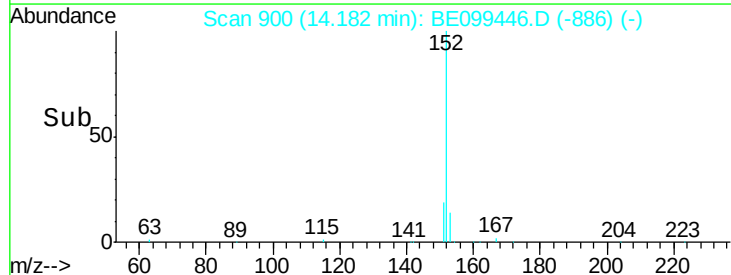
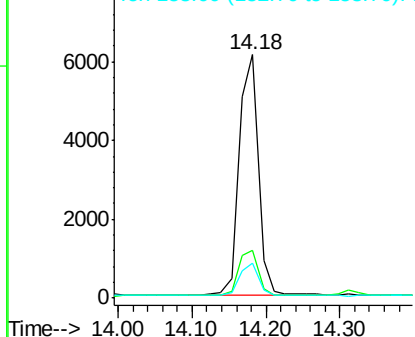


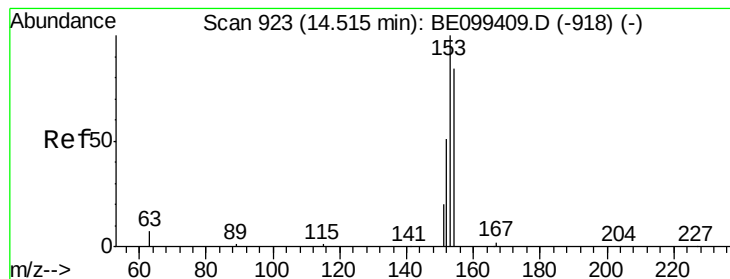
#16
Acenaphthylene
Concen: 0.328 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099446.D
Acq: 1 May 2019 3:39

Tgt Ion:152 Resp: 11164
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.2
153 13.4 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





#17

Acenaphthene

Concen: 0.320 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

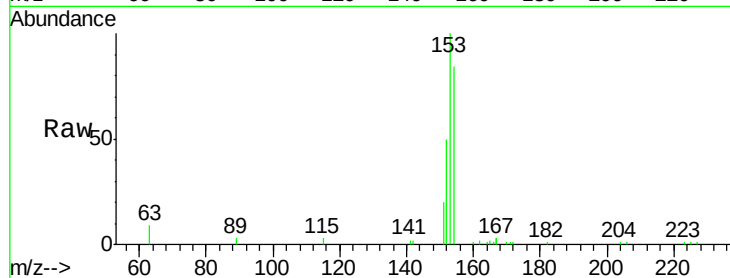
Tot Ion:154 Resp: 6217

Ion Ratio Lower Upper

154 100

153 117.2 92.6 138.8

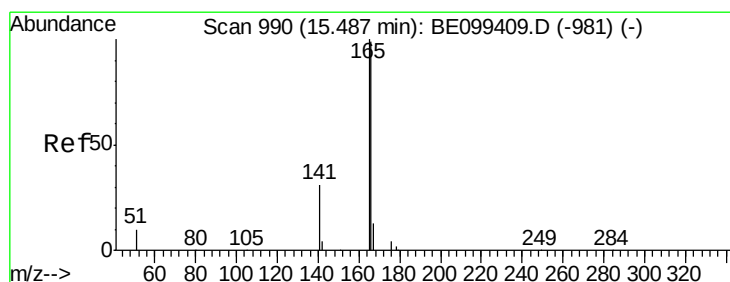
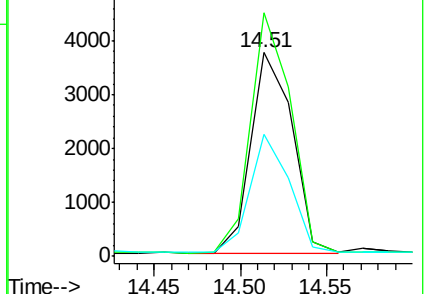
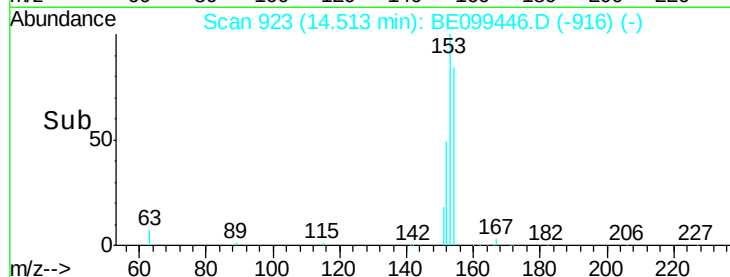
152 56.8 45.8 68.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.325 ng

RT: 15.49 min Scan# 990

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

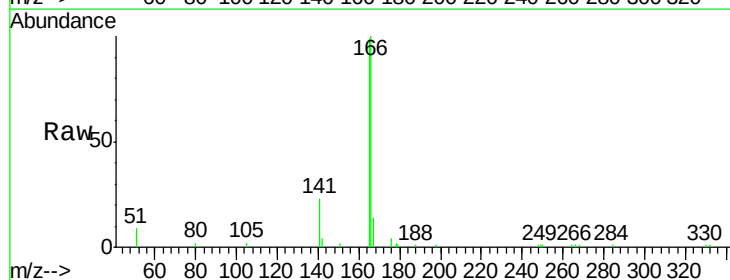
Tgt Ion:166 Resp: 9329

Ion Ratio Lower Upper

166 100

165 98.1 80.3 120.5

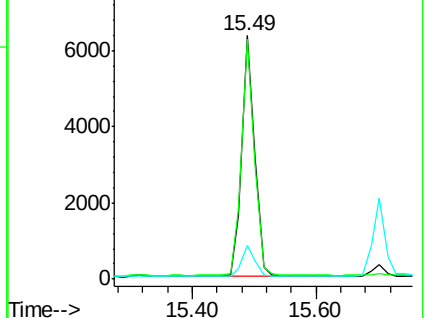
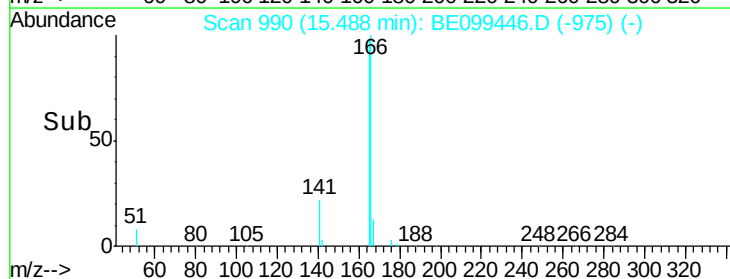
167 13.2 10.7 16.1

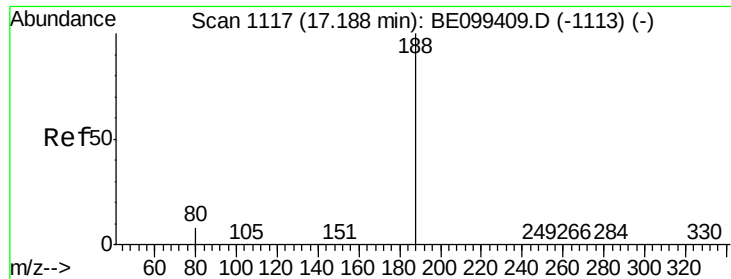


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

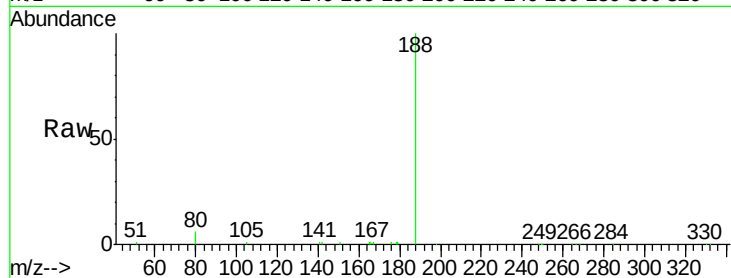
Tot Ion:188 Resp: 21938

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

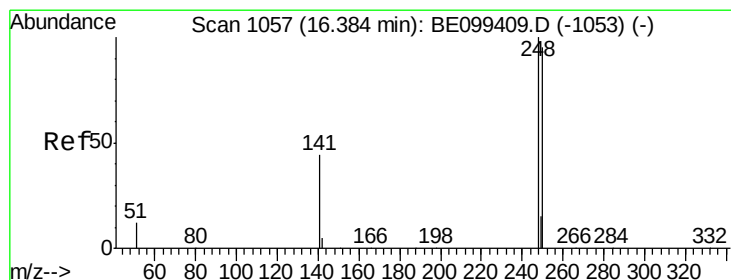
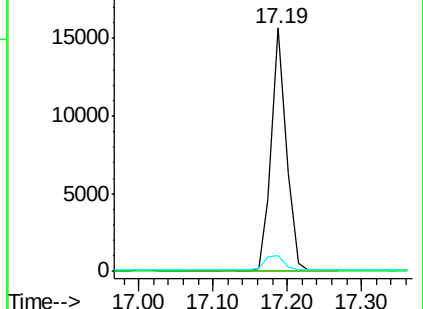
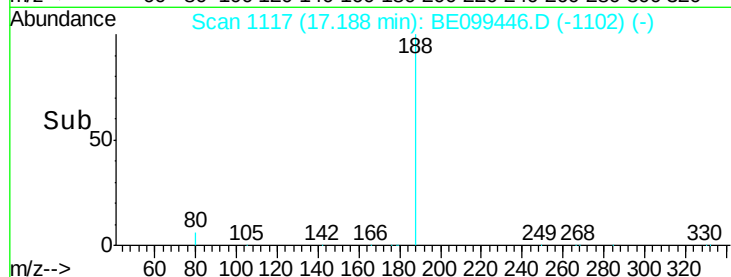
80 6.5 6.7 10.1#



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



#20

4-Bromophenyl-phenylether

Concen: 0.297 ng

RT: 16.38 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

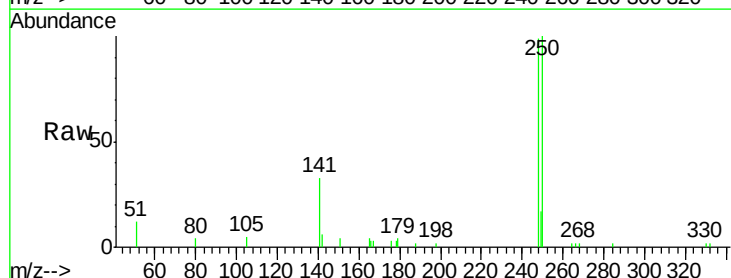
Tgt Ion:248 Resp: 3793

Ion Ratio Lower Upper

248 100

250 100.7 75.8 113.8

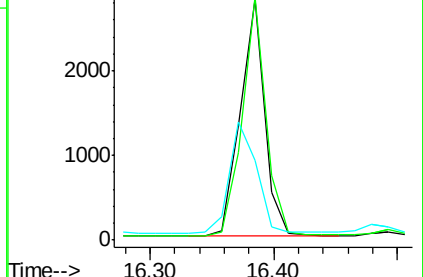
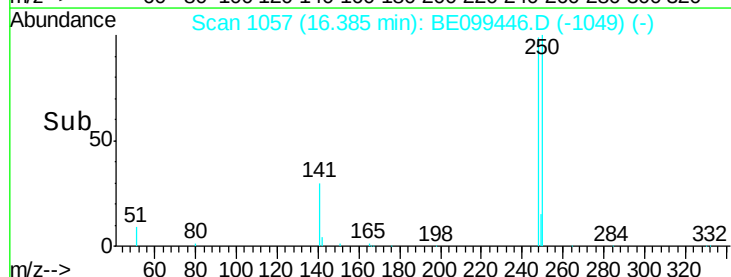
141 33.0 35.7 53.5#

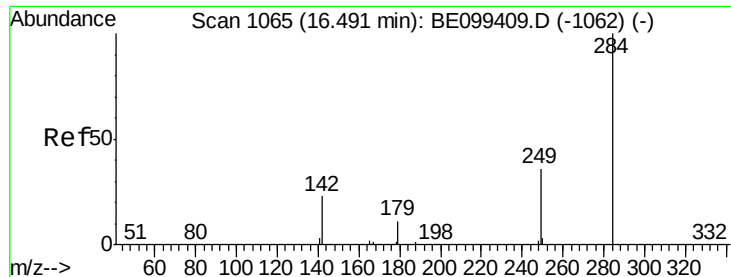


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.306 ng

RT: 16.49 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

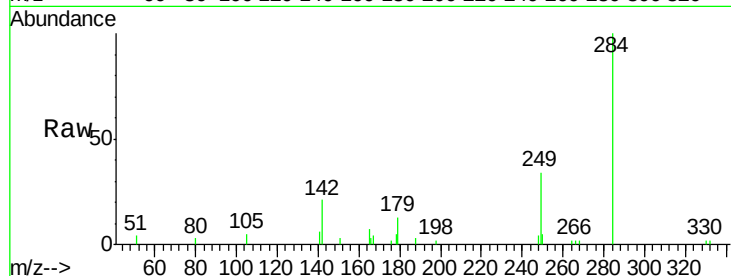
Tot Ion:284 Resp: 3723

Ion Ratio Lower Upper

284 100

142 26.8 21.0 31.6

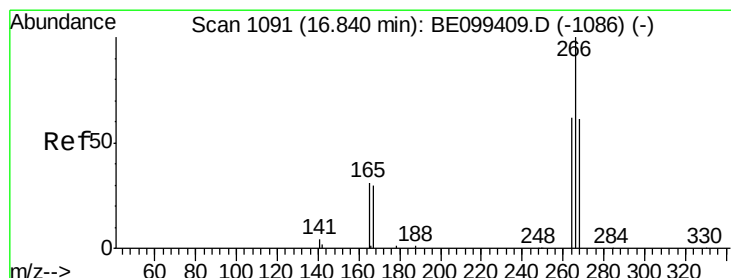
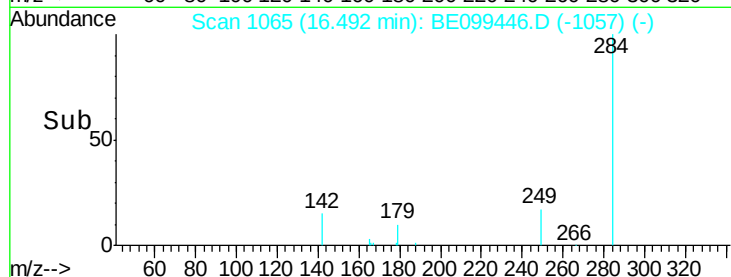
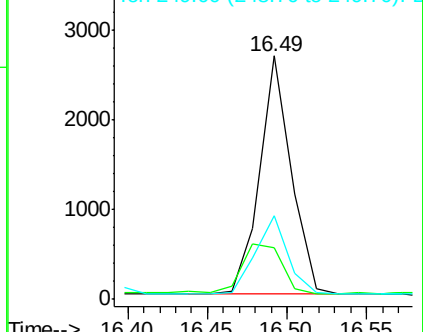
249 32.7 26.7 40.1



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.961 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

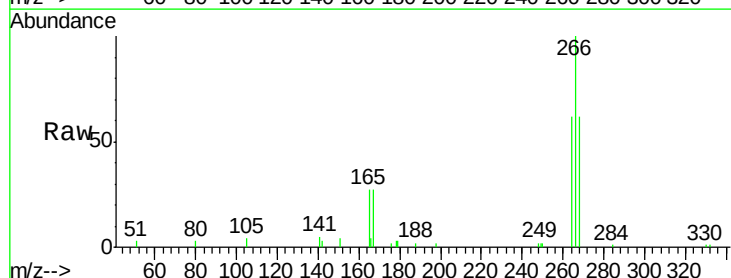
Tgt Ion:266 Resp: 5459

Ion Ratio Lower Upper

266 100

264 61.8 50.8 76.2

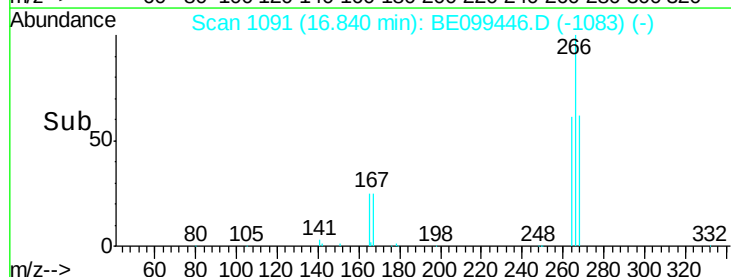
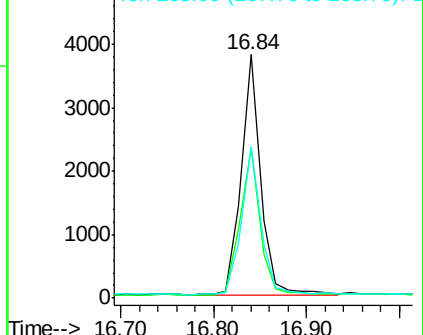
268 62.4 50.5 75.7

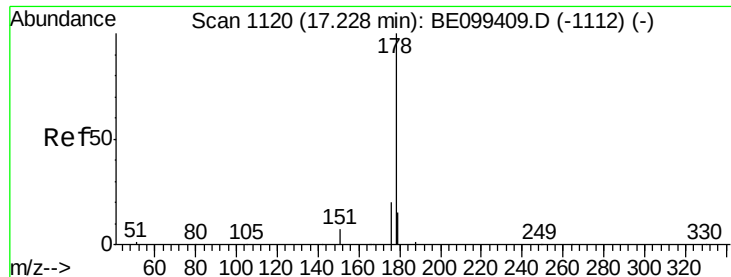


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.456 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

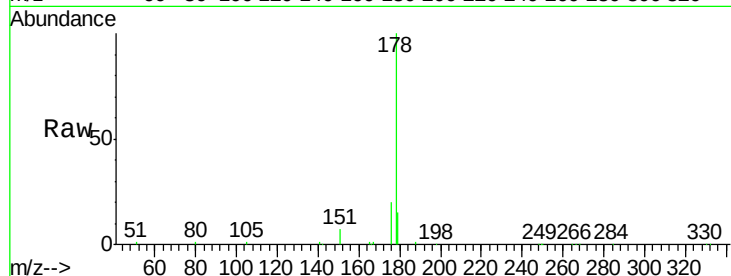
Tot Ion:178 Resp: 25787

Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

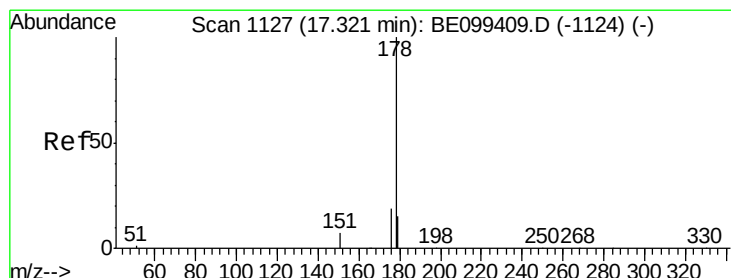
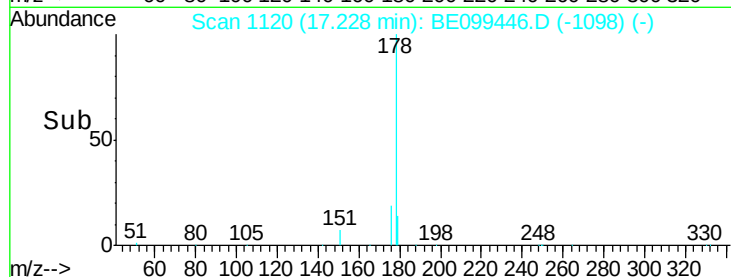
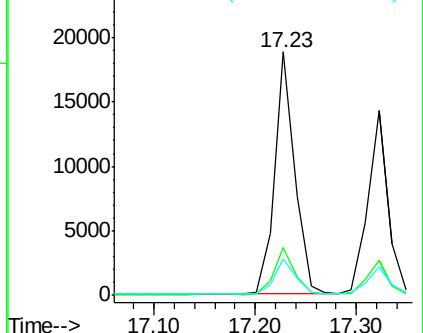
179 14.9 12.0 18.0



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



#24

Anthracene

Concen: 0.362 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

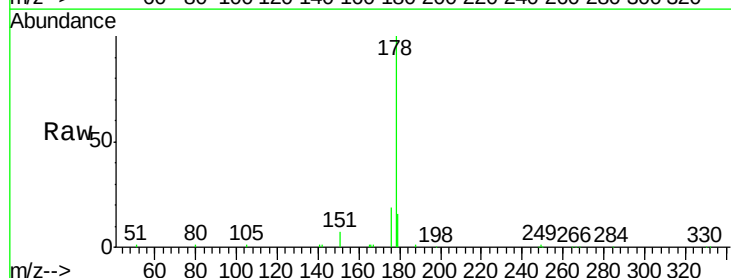
Tgt Ion:178 Resp: 19514

Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

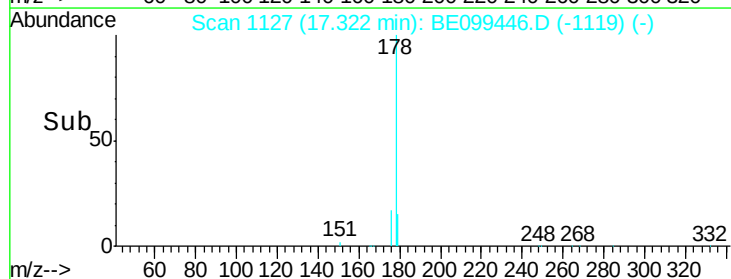
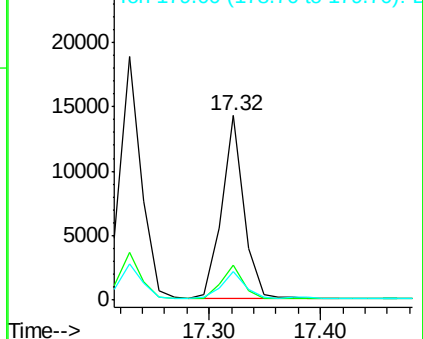
179 15.3 11.9 17.9

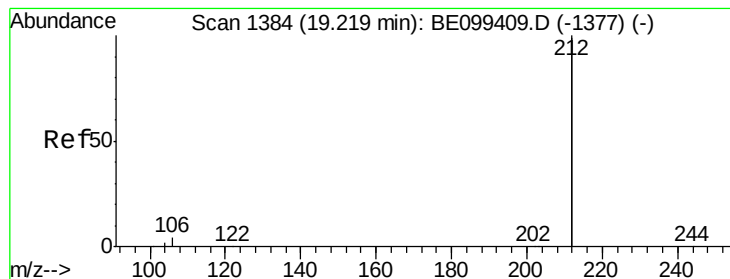


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.307 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

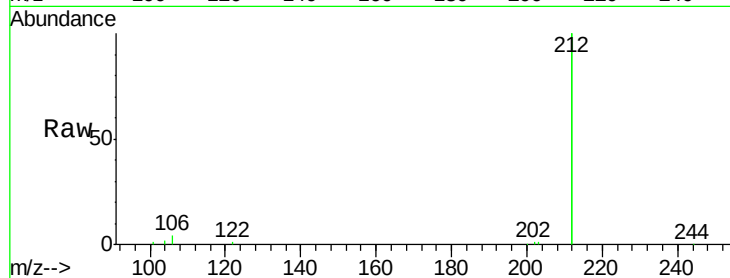
Tot Ion:212 Resp: 90662

Ion Ratio Lower Upper

212 100

106 2.0 1.5 2.3

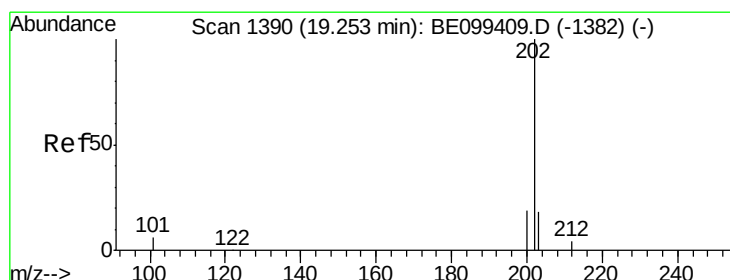
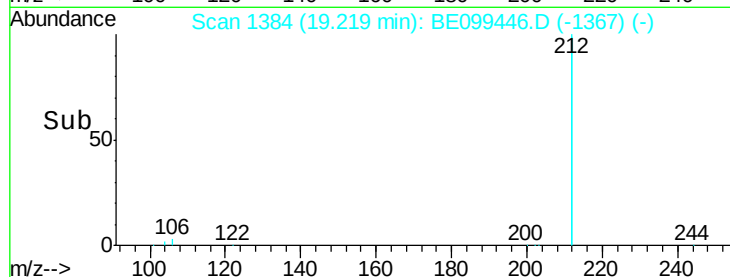
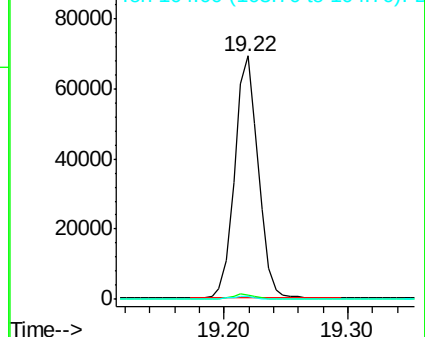
104 1.1 0.9 1.3



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: 0.542 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

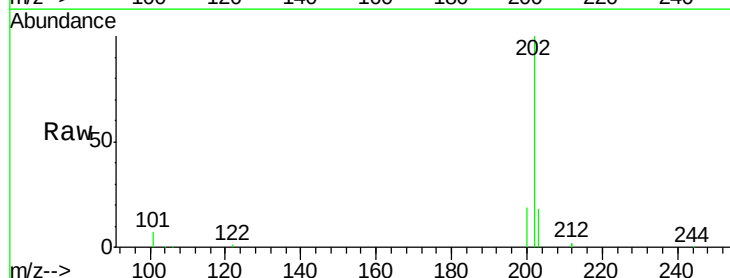
Tgt Ion:202 Resp: 45973

Ion Ratio Lower Upper

202 100

101 6.6 5.4 8.0

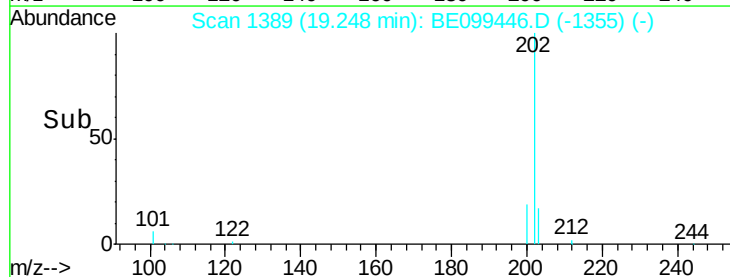
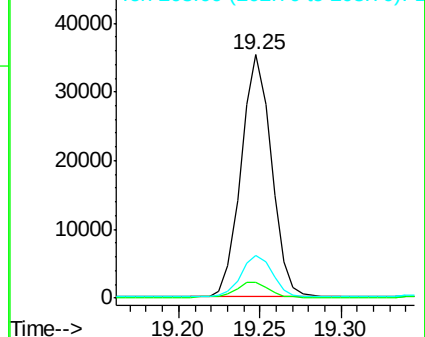
203 17.4 13.9 20.9

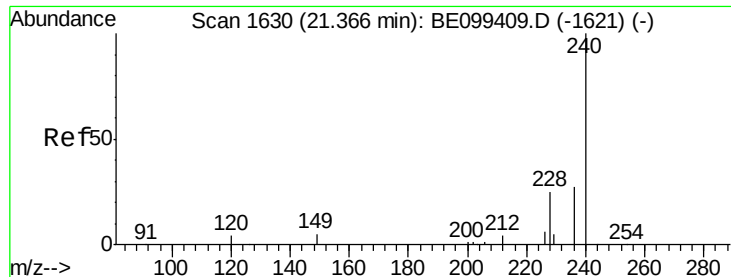


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

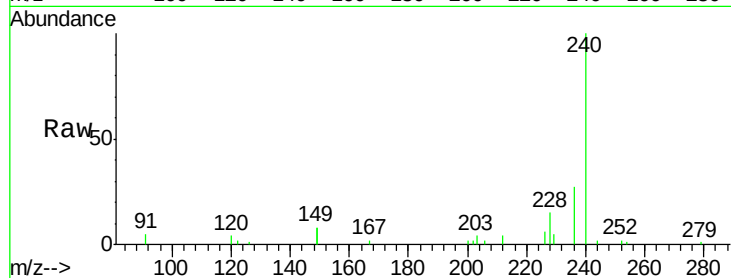
Tot Ion:240 Resp: 31084

Ion Ratio Lower Upper

240 100

120 4.2 4.0 6.0

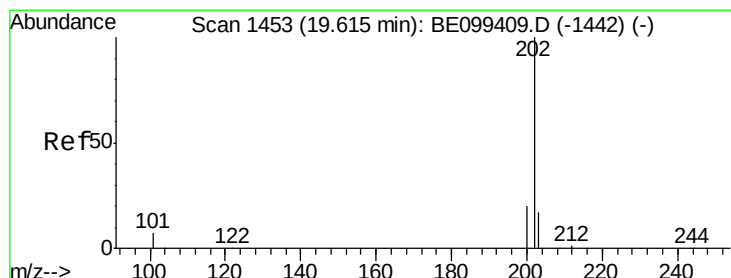
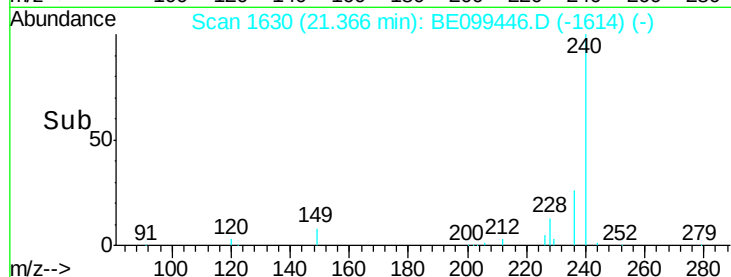
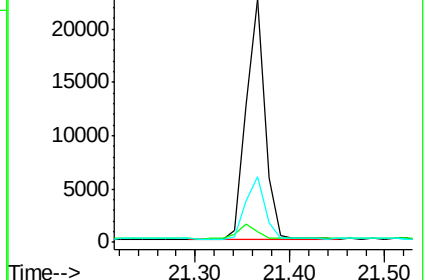
236 27.1 22.0 33.0



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

Pyrene

Concen: 0.587 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

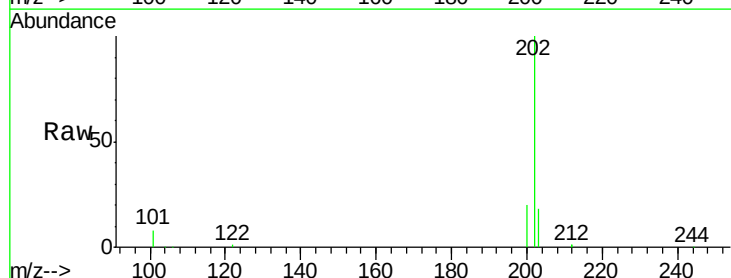
Tgt Ion:202 Resp: 47523

Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

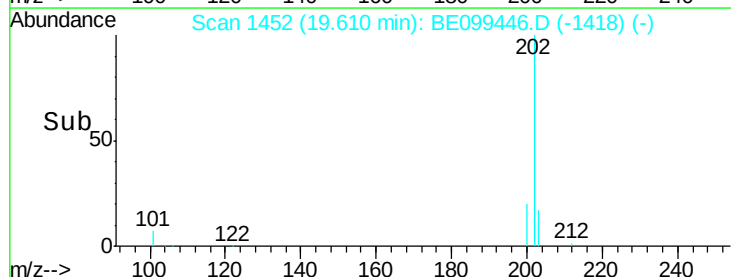
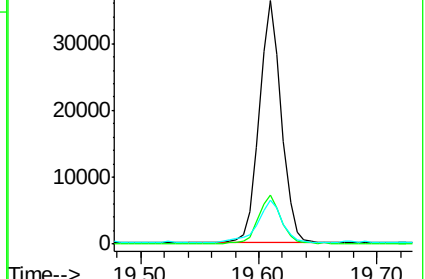
203 18.8 13.9 20.9

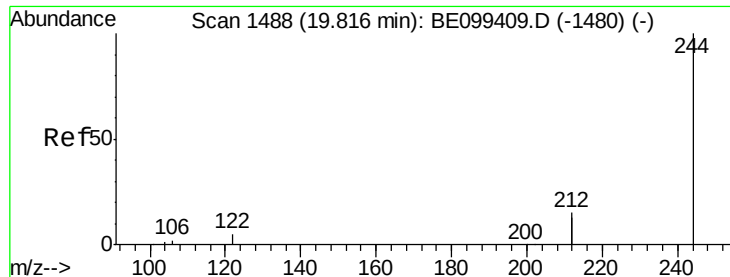


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.333 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

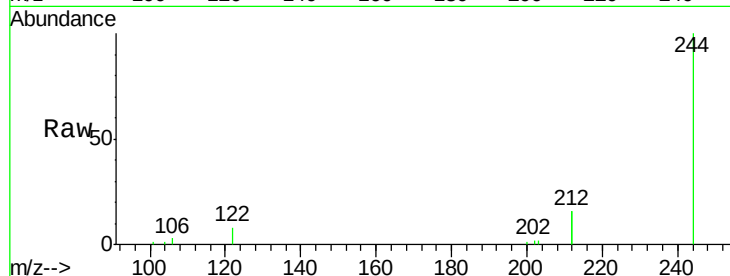
Tot Ion:244 Resp: 18939

Ion Ratio Lower Upper

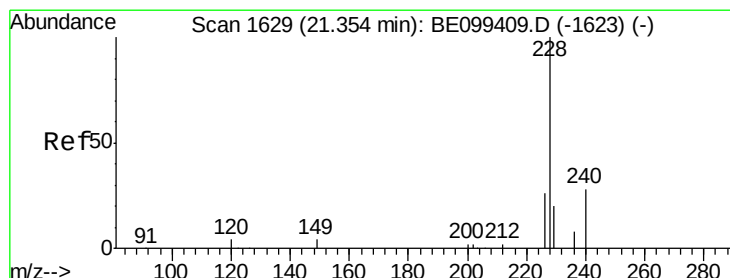
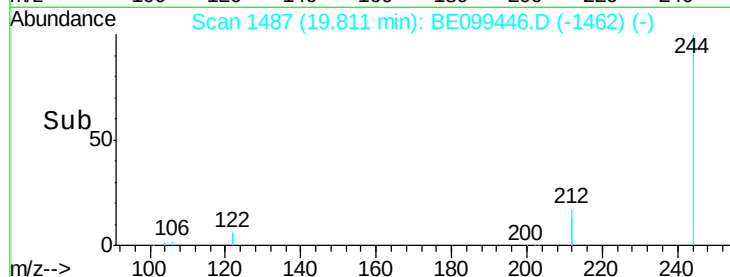
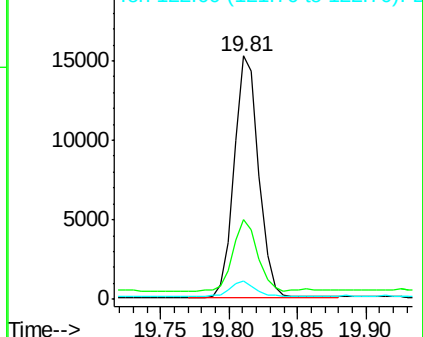
244 100

212 32.9 23.2 34.8

122 7.6 4.2 6.4#



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: 0.496 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

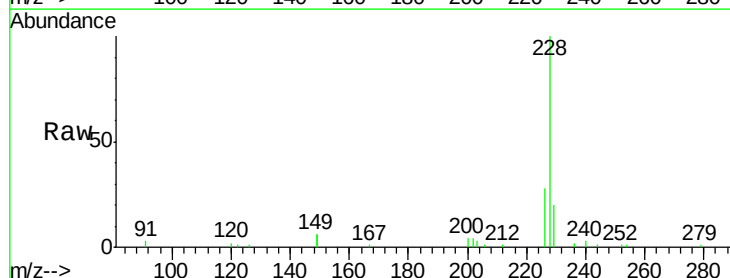
Tgt Ion:228 Resp: 49144

Ion Ratio Lower Upper

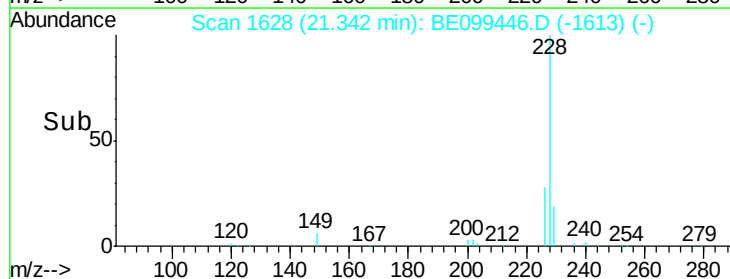
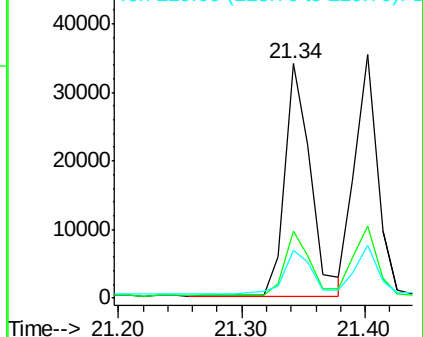
228 100

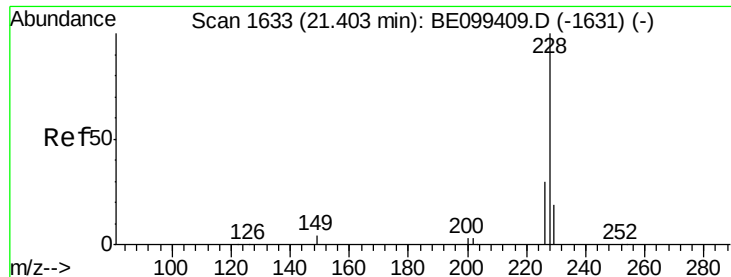
226 28.4 21.0 31.6

229 20.2 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: 0.467 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

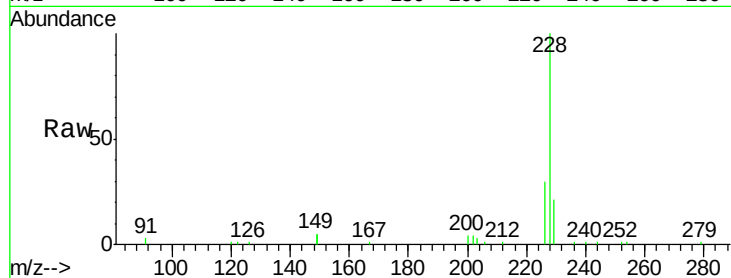
Tot Ion:228 Resp: 45247

Ion Ratio Lower Upper

228 100

226 29.6 24.0 36.0

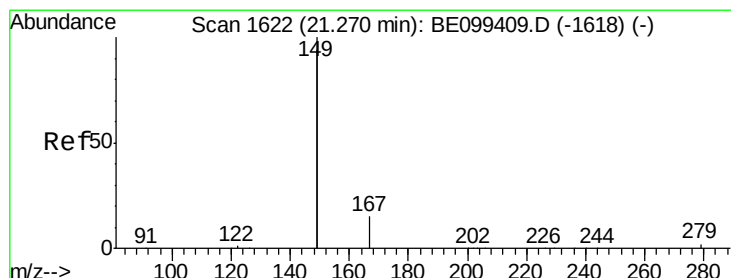
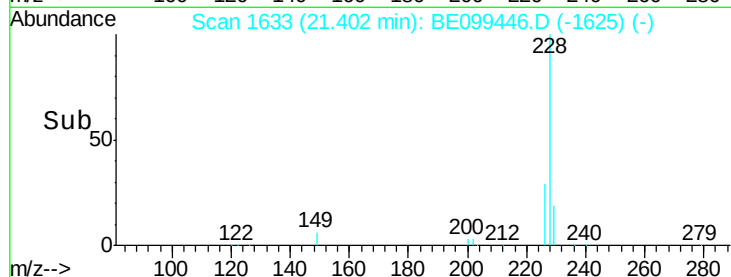
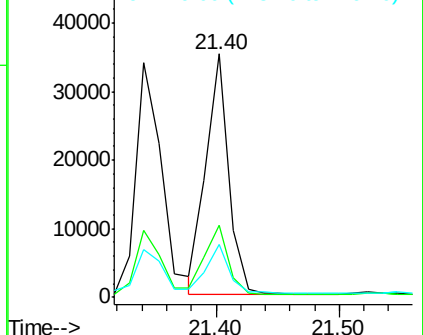
229 21.5 15.8 23.8



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.378 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

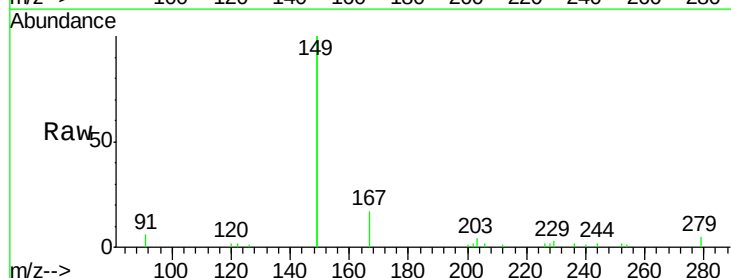
Tgt Ion:149 Resp: 62832

Ion Ratio Lower Upper

149 100

167 7.5 5.8 8.6

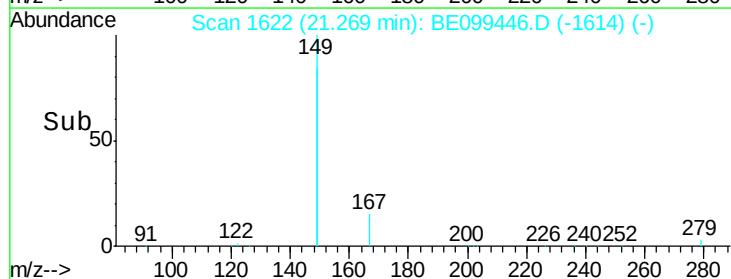
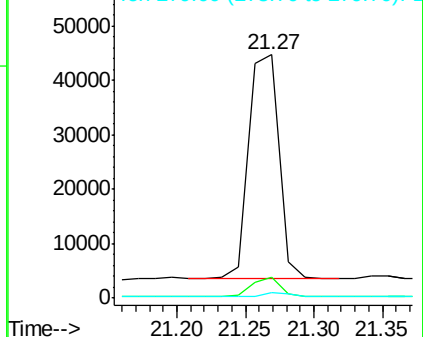
279 1.4 1.0 1.6

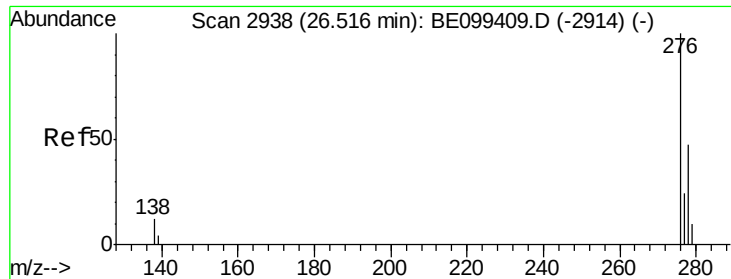


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.413 ng

RT: 26.51 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

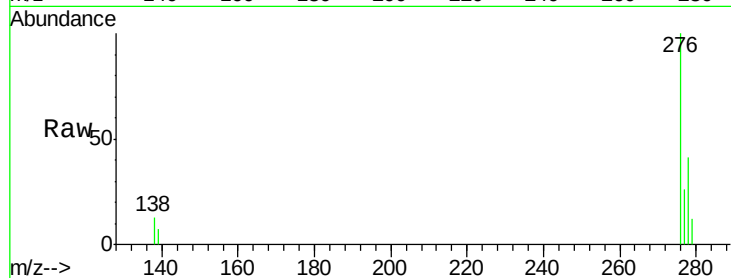
Tot Ion:276 Resp: 47358

Ion Ratio Lower Upper

276 100

138 12.4 10.2 15.2

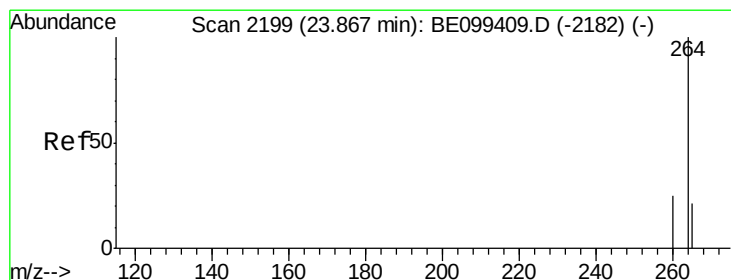
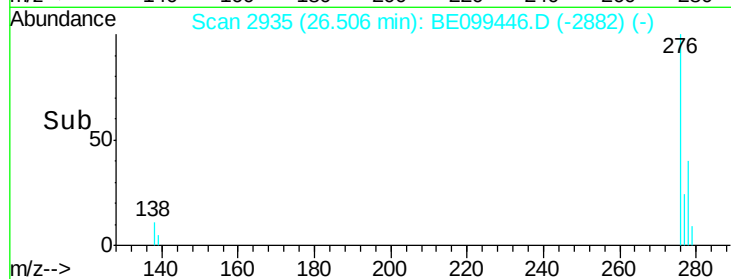
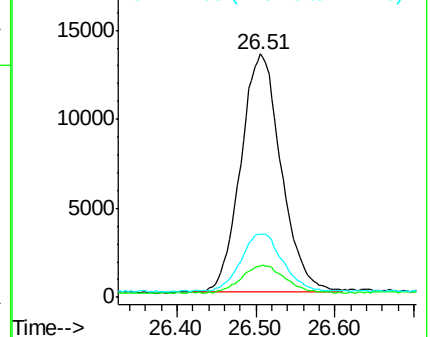
277 24.6 19.2 28.8



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: 23.86 min Scan# 2198

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

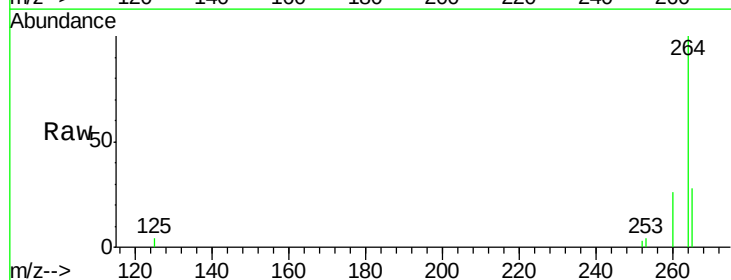
Tgt Ion:264 Resp: 35993

Ion Ratio Lower Upper

264 100

260 25.7 20.2 30.2

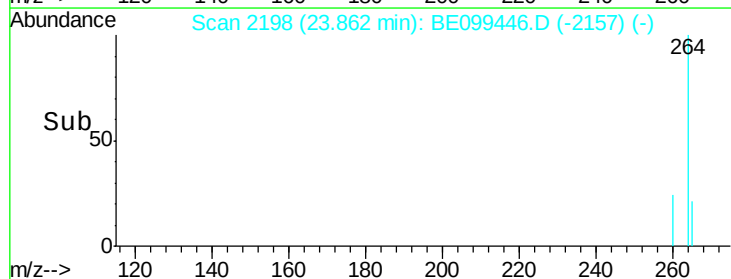
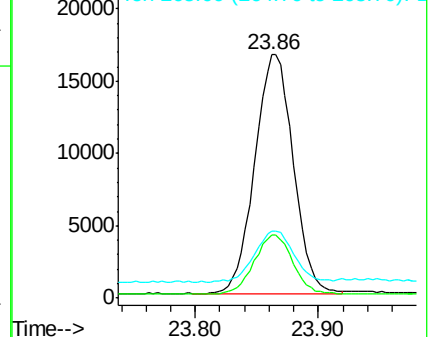
265 27.6 21.3 31.9

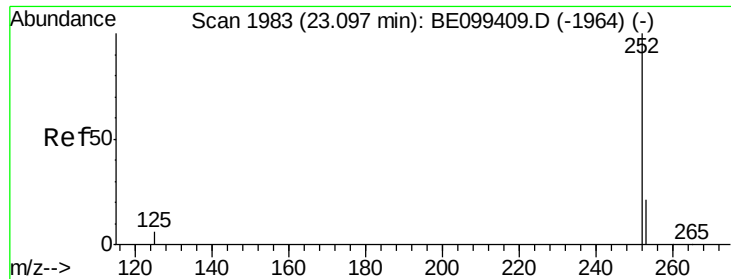


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.446 ng

RT: 23.09 min Scan# 1982

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

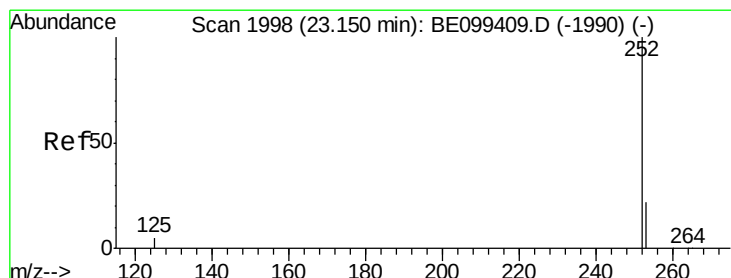
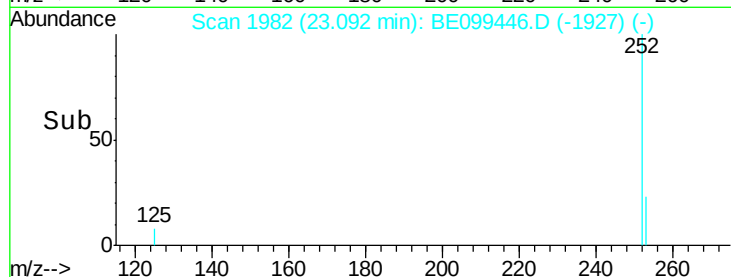
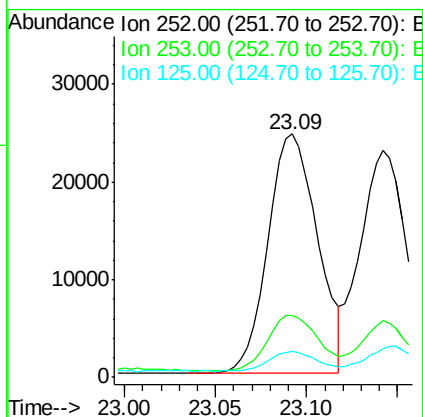
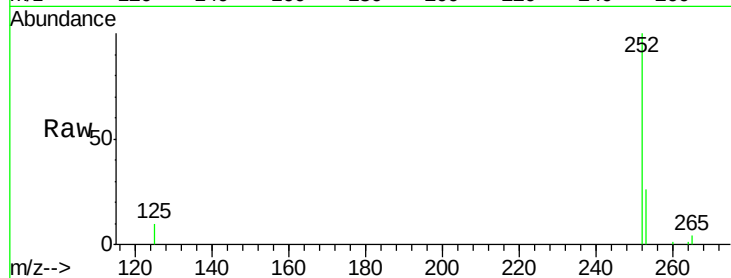
Tot Ion:252 Resp: 46336

Ion Ratio Lower Upper

252 100

253 25.5 18.1 27.1

125 10.4 5.6 8.4#



#36

Benzo(k)fluoranthene

Concen: 0.415 ng

RT: 23.14 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

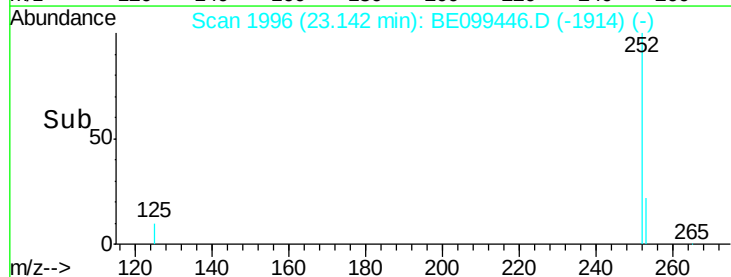
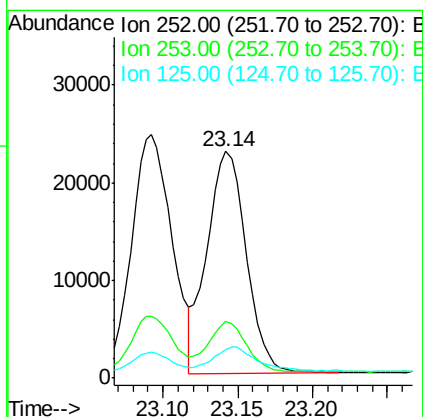
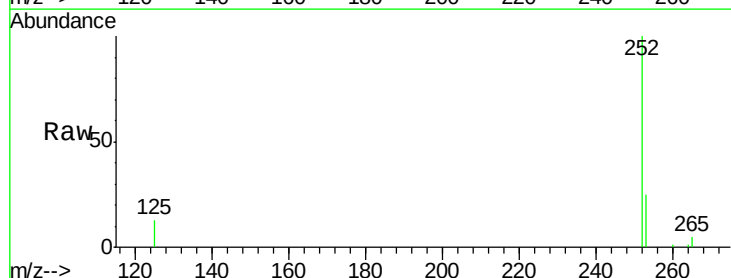
Tgt Ion:252 Resp: 41566

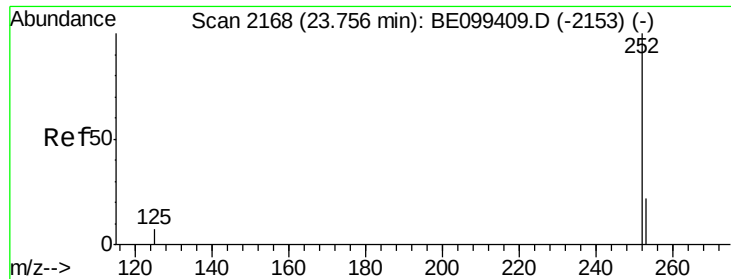
Ion Ratio Lower Upper

252 100

253 24.9 18.4 27.6

125 12.7 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.431 ng

RT: 23.75 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS

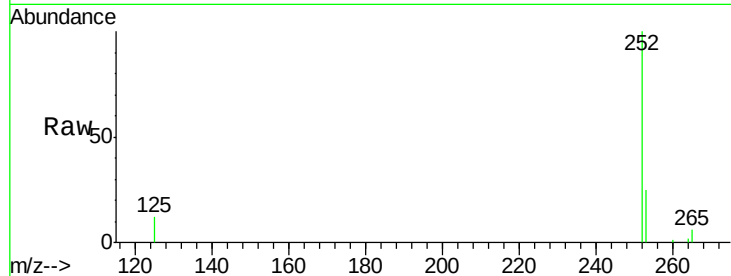
Tot Ion:252 Resp: 42298

Ion Ratio Lower Upper

252 100

253 24.7 18.9 28.3

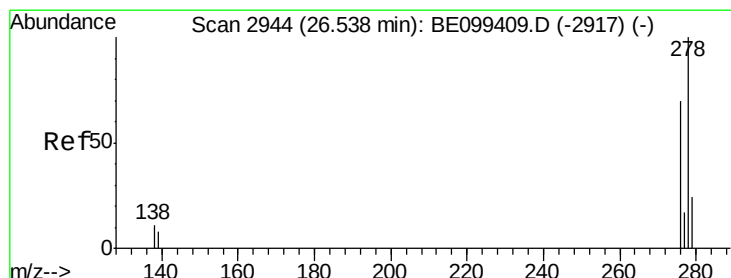
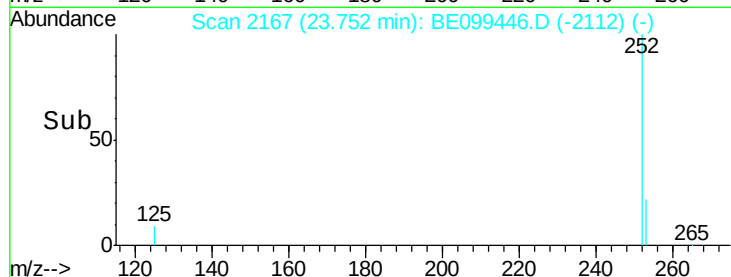
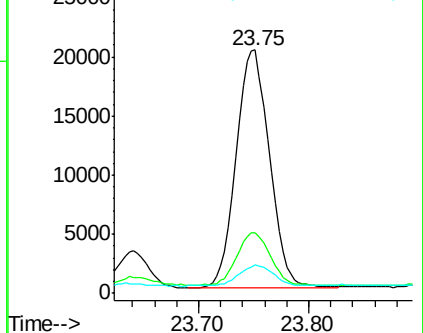
125 11.6 6.7 10.1#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 26.53 min Scan# 2942

Delta R.T. -0.01 min

Lab File: BE099446.D

Acq: 1 May 2019 3:39

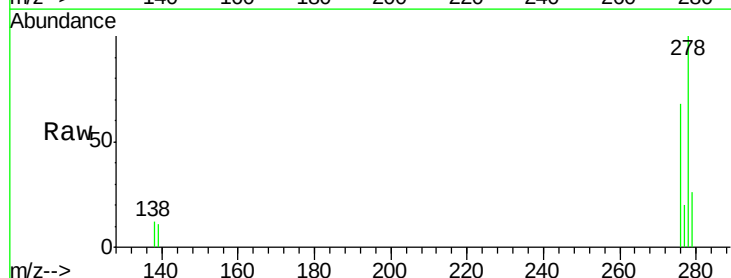
Tgt Ion:278 Resp: 36265

Ion Ratio Lower Upper

278 100

139 11.2 7.7 11.5

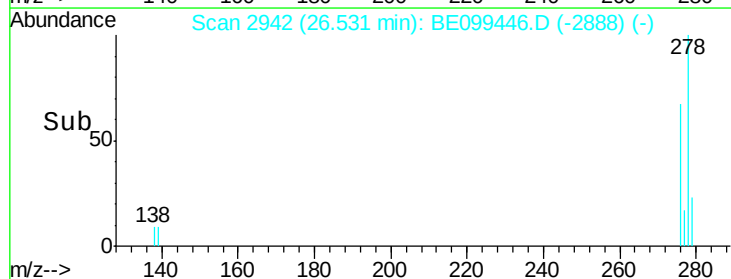
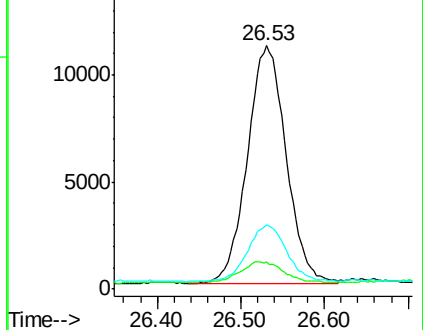
279 26.3 20.2 30.2

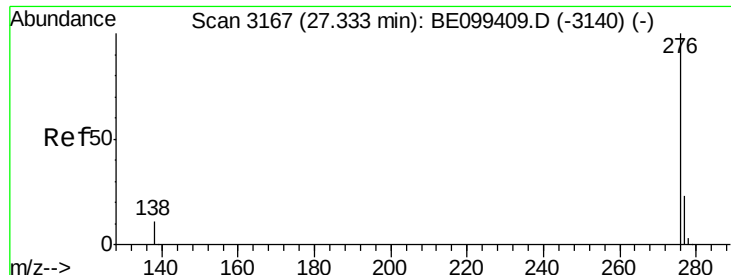


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.413 ng

RT: 27.32 min Scan# 3164

Delta R.T. -0.01 min

Lab File: BE099446.D

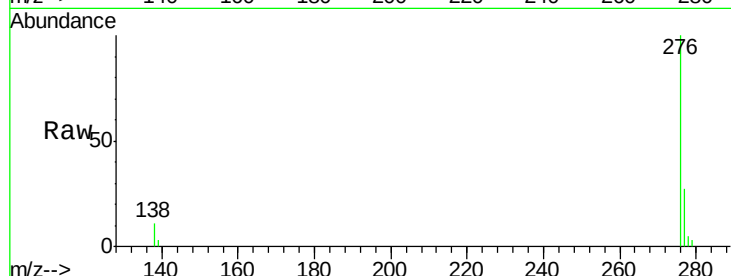
Acq: 1 May 2019 3:39

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219MS



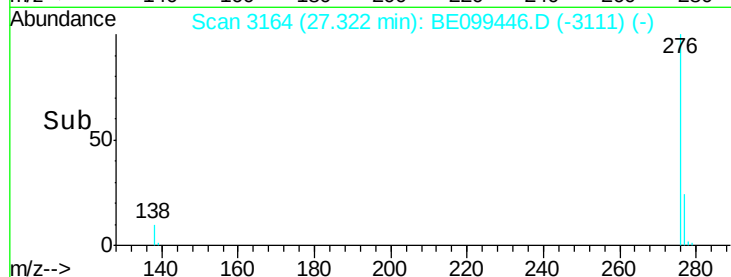
Tot Ion: 276 Resp: 41509

Ion Ratio Lower Upper

276 100

277 26.6 19.5 29.3

138 11.5 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

