

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099417.D
 Acq On : 30 Apr 2019 9:32
 Operator : JU/SJ
 Sample : PB119229BS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB119229BS

Quant Time: Apr 30 23:56:11 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	7.82	152	2884	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9590	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	5796	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	14829	0.40	ng	0.00
27) Chrysene-d12	21.37	240	17251	0.40	ng	0.00
34) Perylene-d12	23.87	264	21024	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	2558	0.32	ng	0.00
5) Phenol-d6	6.98	99	3312	0.31	ng	0.00
8) Nitrobenzene-d5	8.96	82	2616	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	7906	0.46	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	851	0.23	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	7399	0.33	ng	-0.01
25) Fluoranthene-d10	19.22	212	54359	0.27	ng	0.00
29) Terphenyl-d14	19.82	244	11653	0.37	ng	0.00

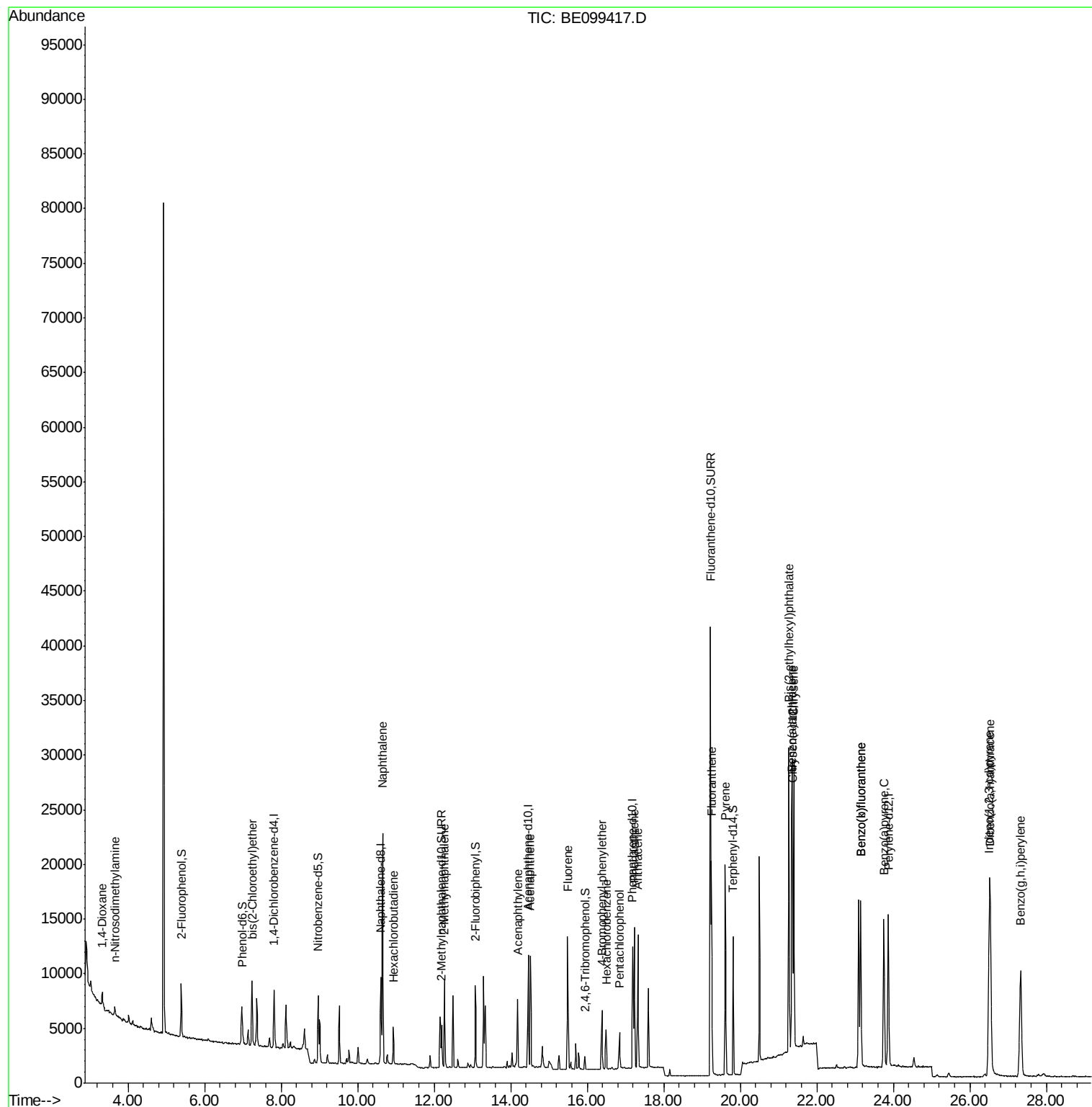
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.32	88	944	0.238	ng	# 71
3) n-Nitrosodimethylamine	3.65	42	659	0.276	ng	# 100
6) bis(2-Chloroethyl)ether	7.24	93	2613	0.286	ng	98
9) Naphthalene	10.65	128	32562	0.312	ng	99
10) Hexachlorobutadiene	10.93	225	2230	0.307	ng	98
12) 2-Methylnaphthalene	12.27	142	5462	0.301	ng	97
16) Acenaphthylene	14.18	152	8700	0.307	ng	98
17) Acenaphthene	14.51	154	4991	0.308	ng	99
18) Fluorene	15.49	166	6983	0.292	ng	100
20) 4-Bromophenyl-phenylether	16.39	248	2822	0.327	ng	92
21) Hexachlorobenzene	16.49	284	2887	0.351	ng	99
22) Pentachlorophenol	16.84	266	1848	0.589	ng	97
23) Phenanthrene	17.23	178	13117	0.343	ng	99
24) Anthracene	17.32	178	12092	0.332	ng	99
26) Fluoranthene	19.25	202	18191	0.317	ng	99
28) Pyrene	19.61	202	18837	0.419	ng	100
30) Benzo(a)anthracene	21.34	228	22084	0.402	ng	97
31) Chrysene	21.40	228	21633	0.402	ng	100
32) Bis(2-ethylhexyl)phthalate	21.27	149	30307	0.319	ng	99
33) Indeno(1,2,3-cd)pyrene	26.51	276	30343	0.477	ng	99
35) Benzo(b)fluoranthene	23.15	252	22008	0.363	ng	97
36) Benzo(k)fluoranthene	23.15	252	22008	0.376	ng	98
37) Benzo(a)pyrene	23.75	252	22019	0.384	ng	# 96
38) Dibenzo(a,h)anthracene	26.54	278	25659	0.438	ng	98
39) Benzo(g,h,i)perylene	27.33	276	25941	0.442	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

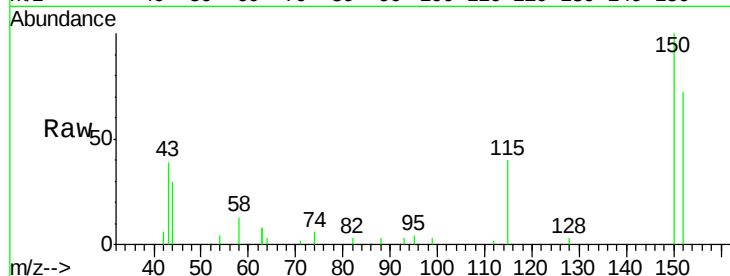
Tot Ion:152 Resp: 2884

Ion Ratio Lower Upper

152 100

150 139.5 104.8 157.2

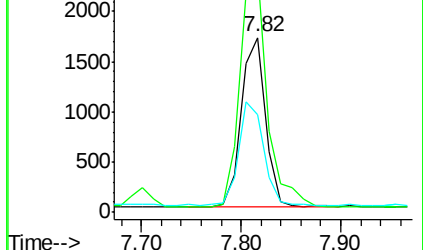
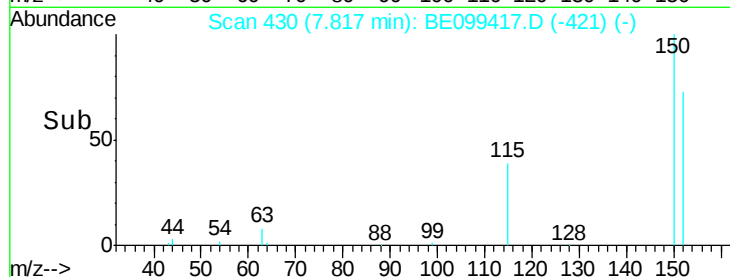
115 56.0 46.6 69.8



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: 0.238 ng

RT: 3.32 min Scan# 40

Delta R.T. 0.01 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

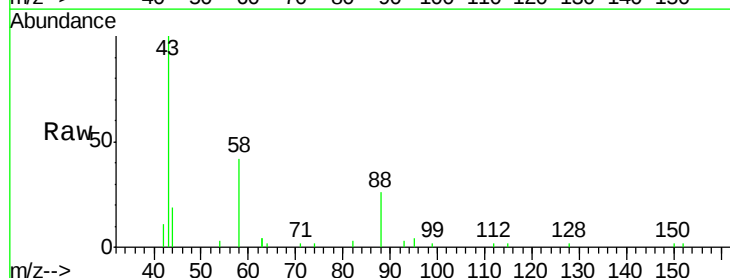
Tgt Ion: 88 Resp: 944

Ion Ratio Lower Upper

88 100

58 79.8 51.0 76.6#

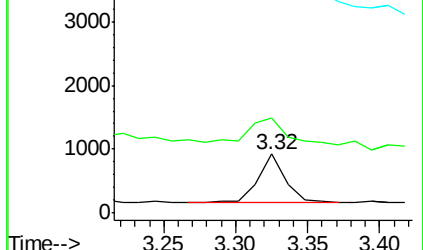
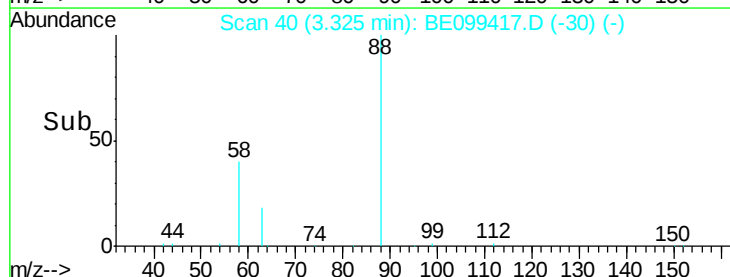
43 0.0 20.6 30.8#



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





#3

n-Nitrosodimethylamine

Concen: 0.276 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

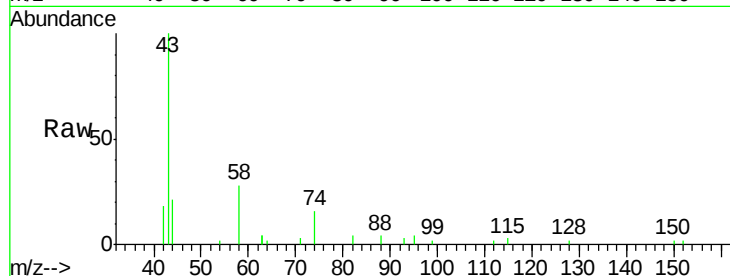
Tot Ion: 42 Resp: 659

Ion Ratio Lower Upper

42 100

74 176.6 141.6 212.4

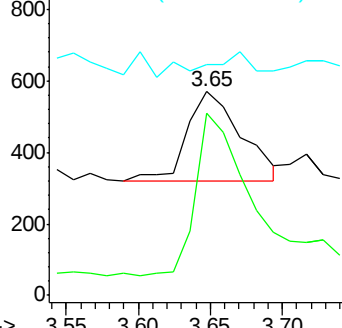
44 0.0 0.0 0.0



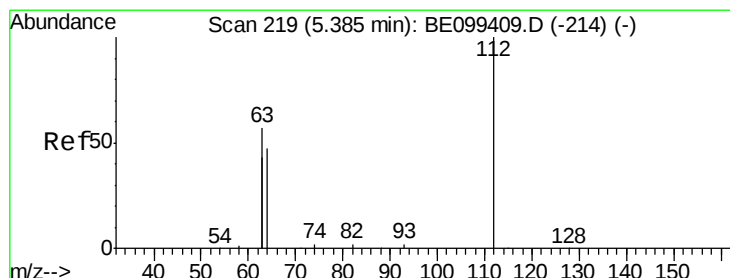
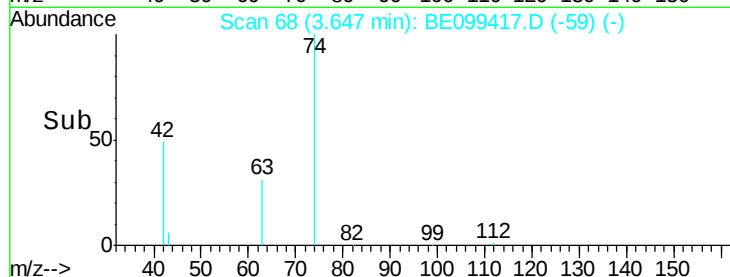
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 0.321 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

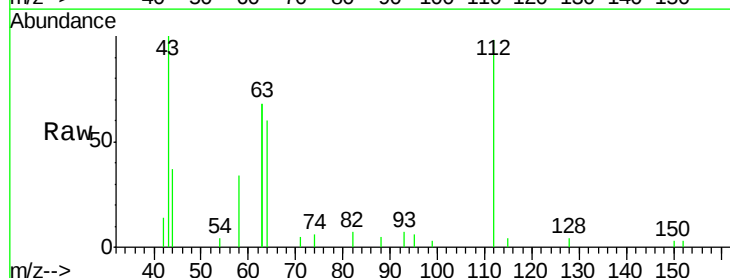
Tgt Ion: 112 Resp: 2558

Ion Ratio Lower Upper

112 100

64 55.5 47.4 71.0

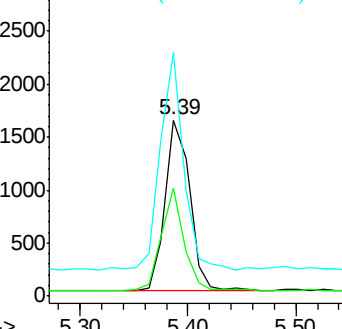
63 121.7 104.3 156.5



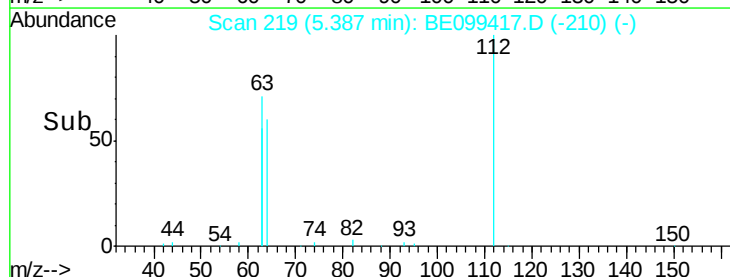
Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.312 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

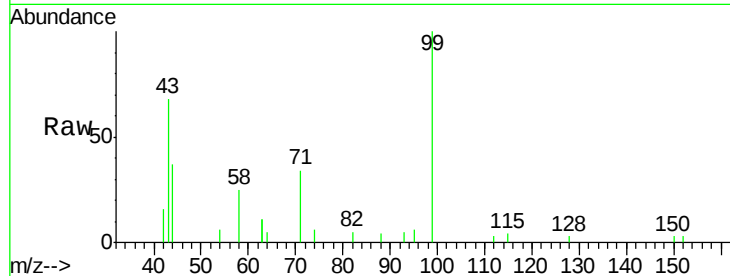
Tot Ion: 99 Resp: 3312

Ion Ratio Lower Upper

99 100

42 17.5 14.9 22.3

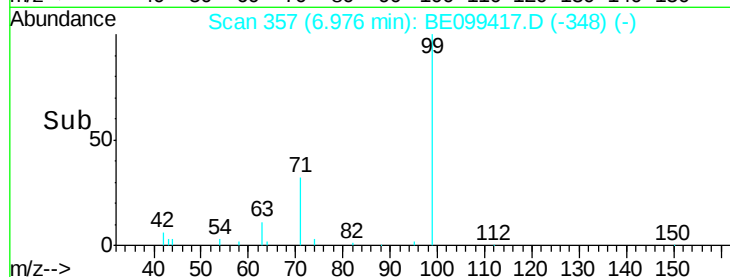
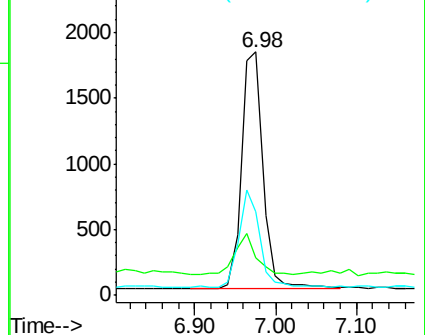
71 39.6 33.0 49.6



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: 0.286 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

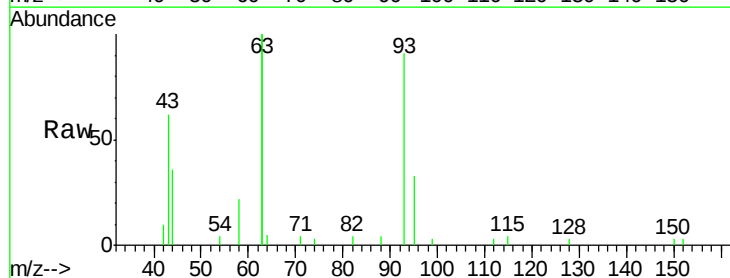
Tgt Ion: 93 Resp: 2613

Ion Ratio Lower Upper

93 100

63 272.5 215.6 323.4

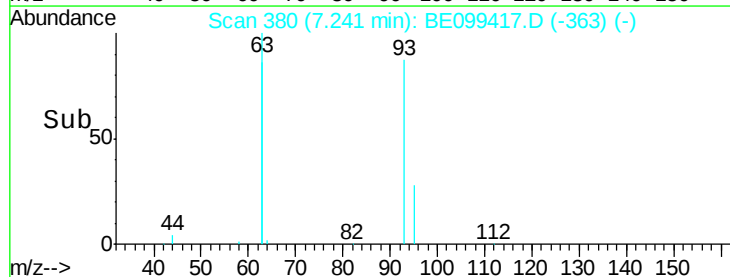
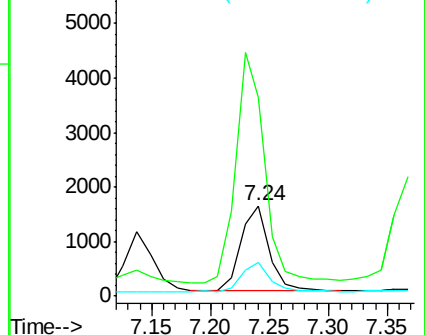
95 35.4 26.2 39.2



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: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

Tot Ion:136 Resp: 9590

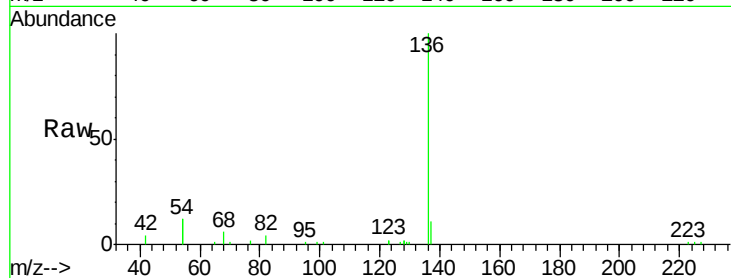
Ion Ratio Lower Upper

136 100

137 11.2 9.8 14.8

54 23.4 18.5 27.7

68 6.4 4.7 7.1

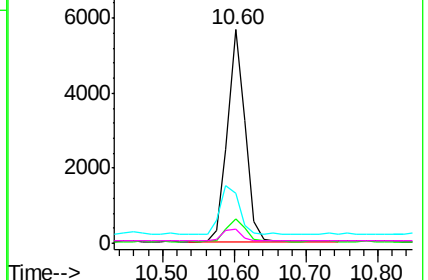
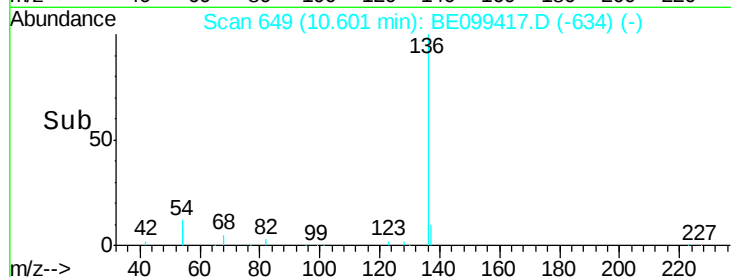


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.291 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

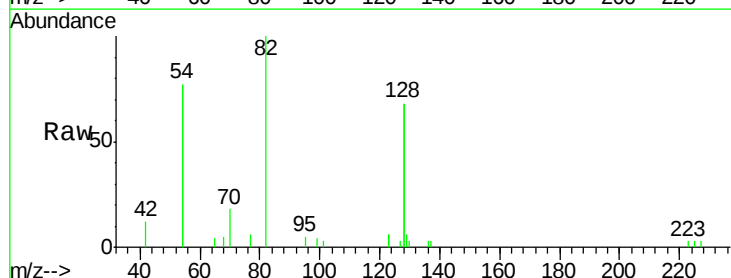
Tgt Ion: 82 Resp: 2616

Ion Ratio Lower Upper

82 100

128 136.3 107.0 160.4

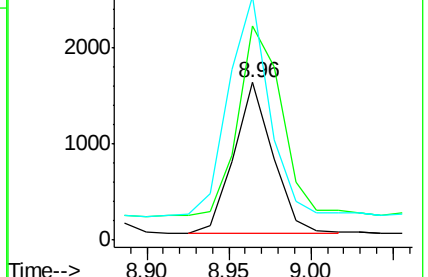
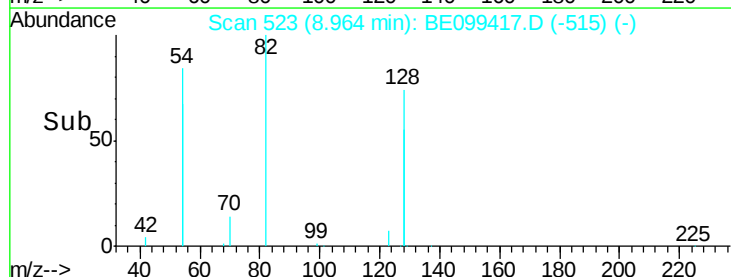
54 154.6 113.1 169.7

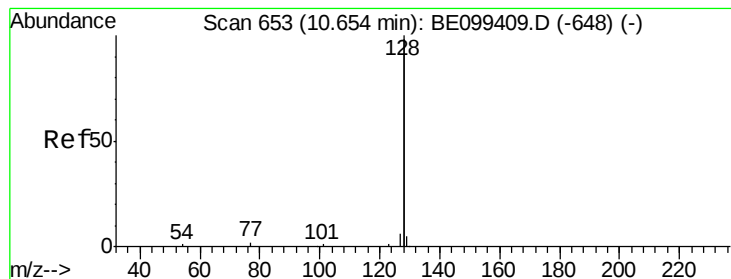


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.312 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

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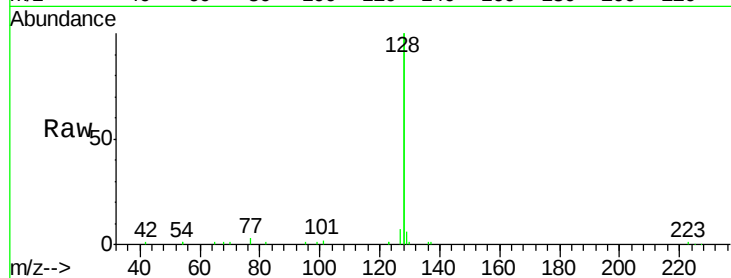
Tot Ion:128 Resp: 32562

Ion Ratio Lower Upper

128 100

129 3.1 2.4 3.6

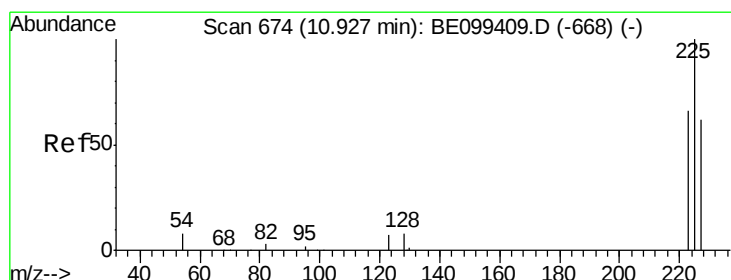
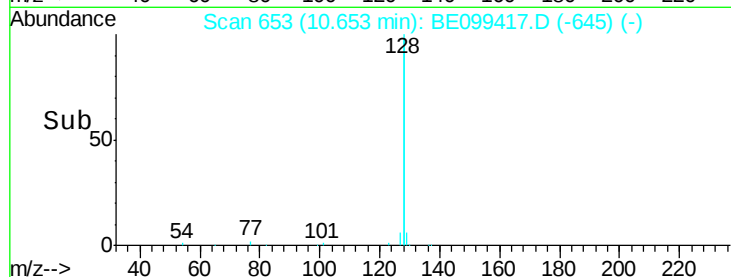
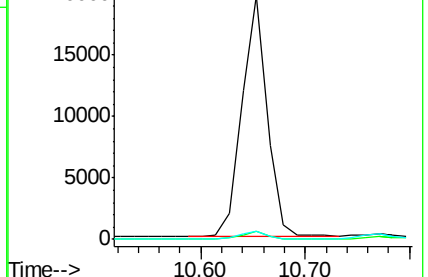
127 3.3 2.8 4.2



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: 0.307 ng

RT: 10.93 min Scan# 674

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

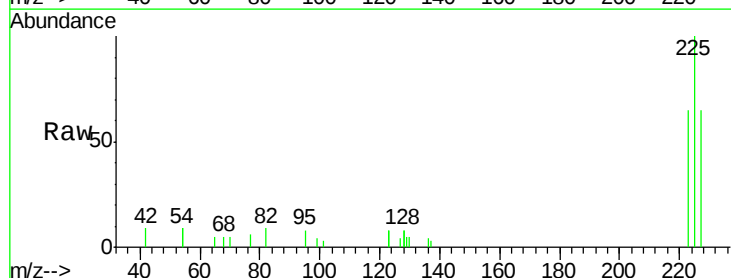
Tgt Ion:225 Resp: 2230

Ion Ratio Lower Upper

225 100

223 62.7 51.0 76.6

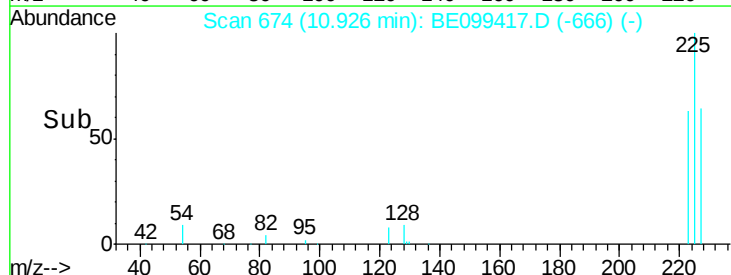
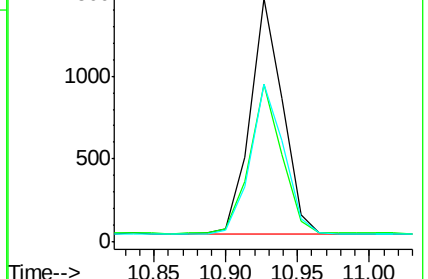
227 65.5 50.9 76.3

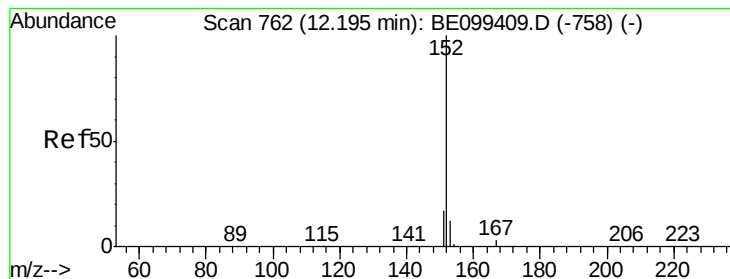


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

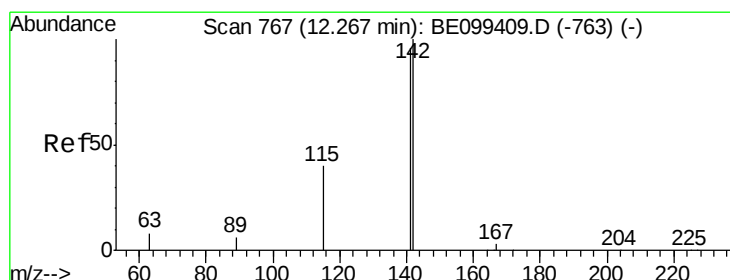
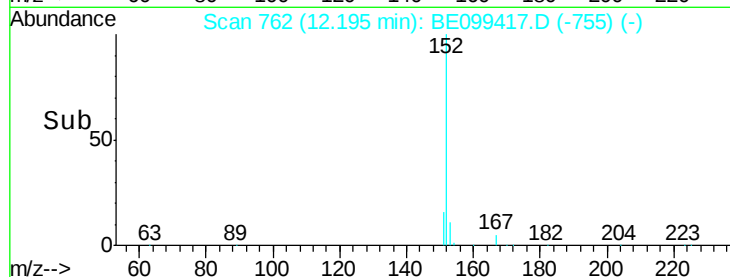
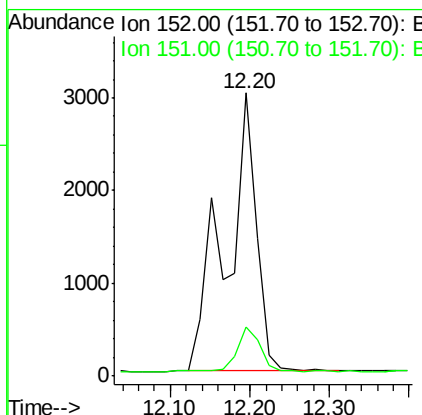
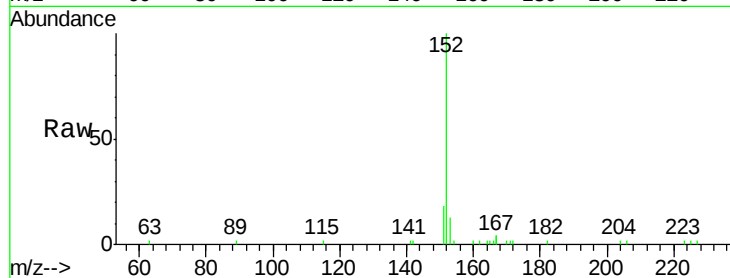




#11
 2-Methylnaphthalene-d10
 Concen: 0.458 ng
 RT: 12.20 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099417.D
 Acq: 30 Apr 2019 9:32

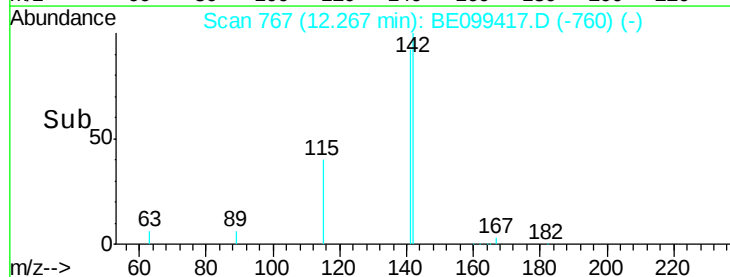
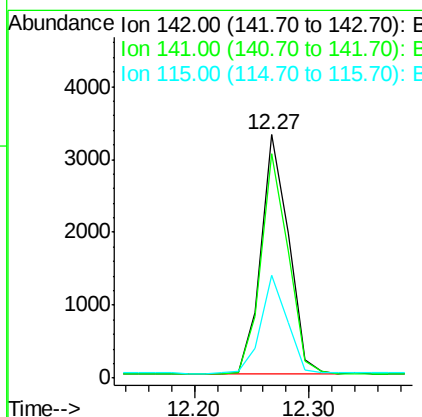
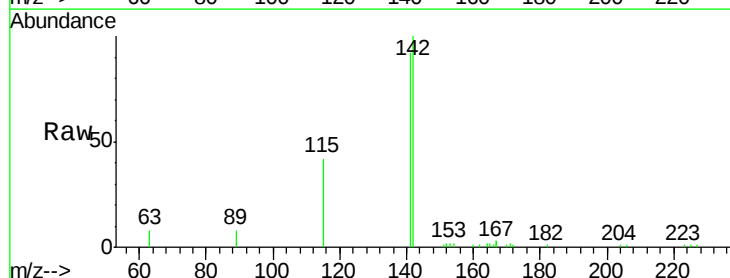
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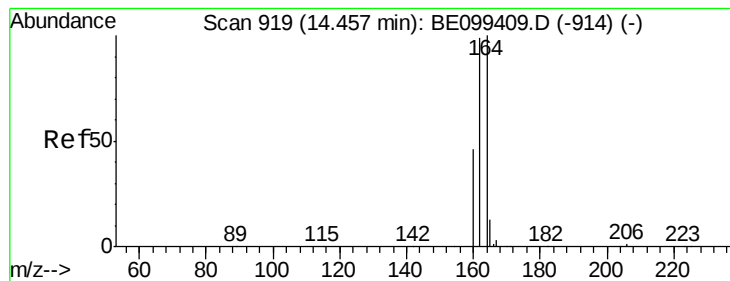
Tot Ion:152 Resp: 7906
 Ion Ratio Lower Upper
 152 100
 151 12.3 15.5 23.3#



#12
 2-Methylnaphthalene
 Concen: 0.301 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE099417.D
 Acq: 30 Apr 2019 9:32

Tgt Ion:142 Resp: 5462
 Ion Ratio Lower Upper
 142 100
 141 91.9 77.0 115.4
 115 42.0 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: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

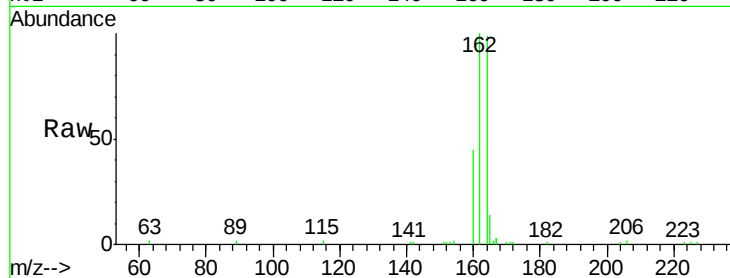
Tot Ion:164 Resp: 5796

Ion Ratio Lower Upper

164 100

162 100.6 79.0 118.4

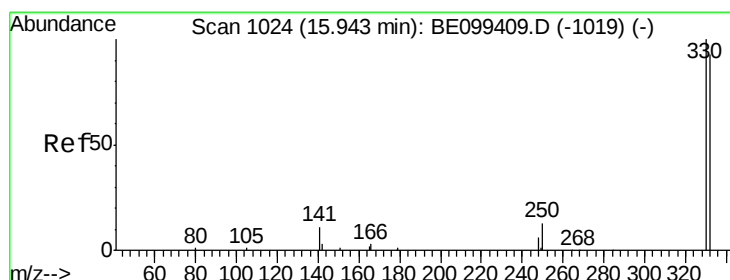
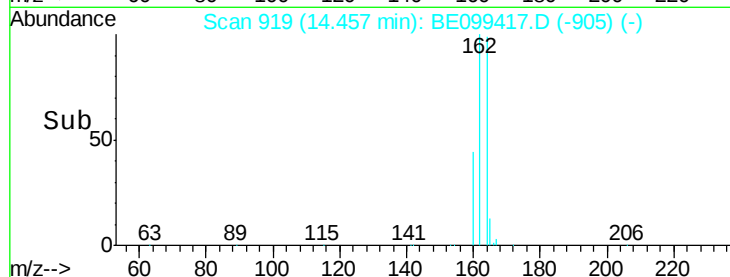
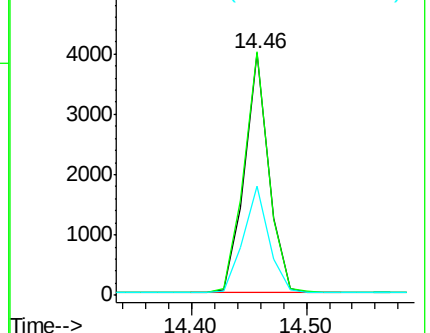
160 45.3 37.0 55.4



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: 0.233 ng

RT: 15.94 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

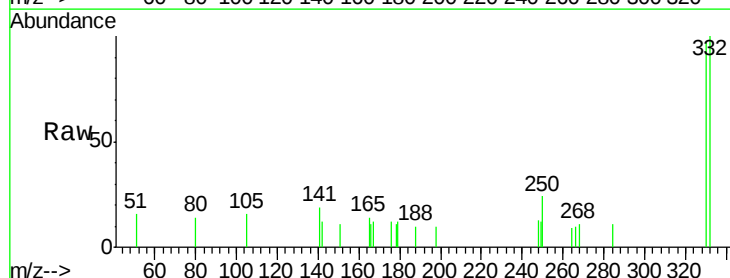
Tgt Ion:330 Resp: 851

Ion Ratio Lower Upper

330 100

332 92.5 71.5 107.3

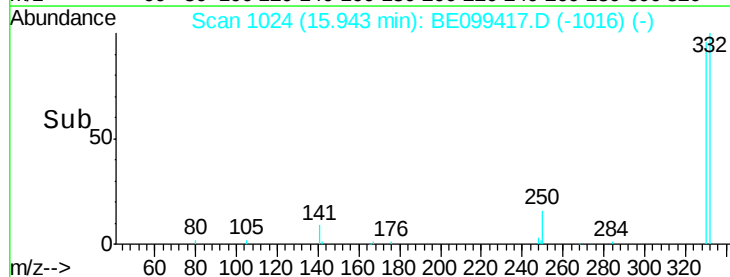
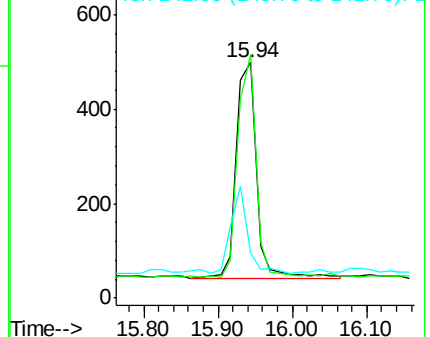
141 32.9 24.0 36.0

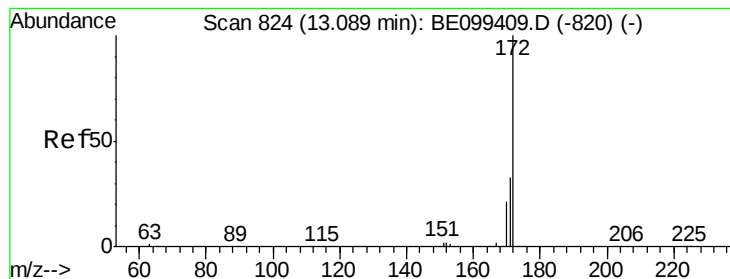


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.335 ng

RT: 13.07 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

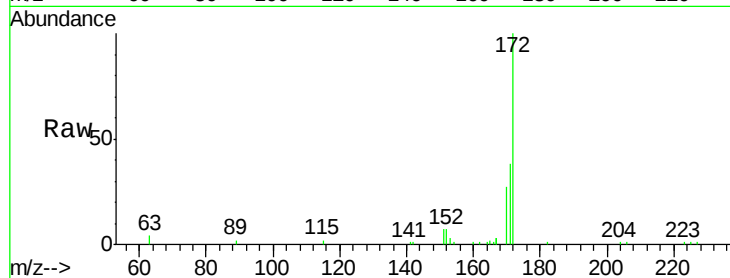
Tot Ion:172 Resp: 7399

Ion Ratio Lower Upper

172 100

171 37.5 26.6 39.8

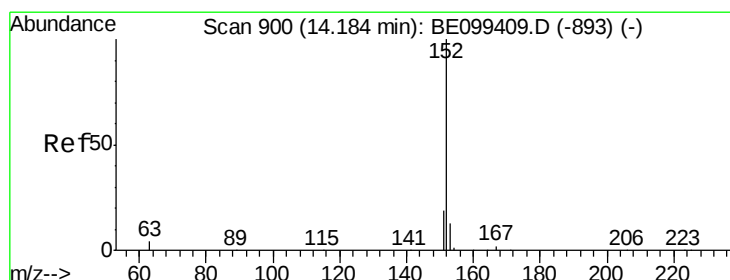
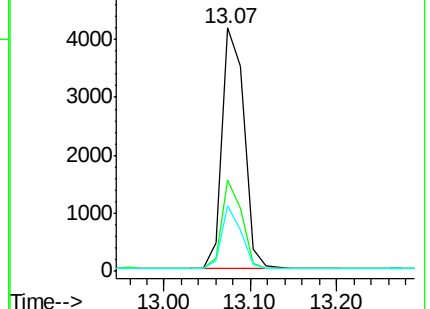
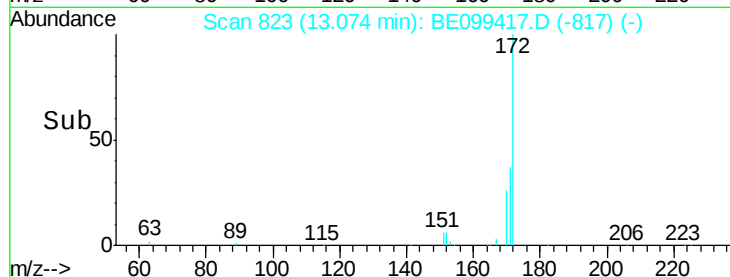
170 26.8 17.0 25.6#



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: 0.307 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

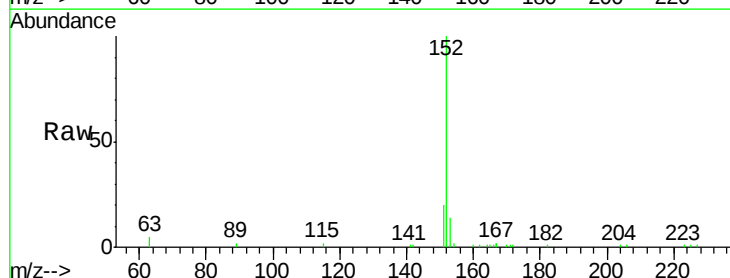
Tgt Ion:152 Resp: 8700

Ion Ratio Lower Upper

152 100

151 20.0 15.4 23.2

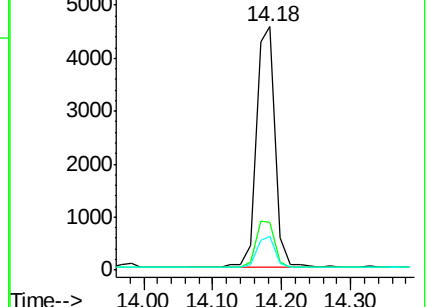
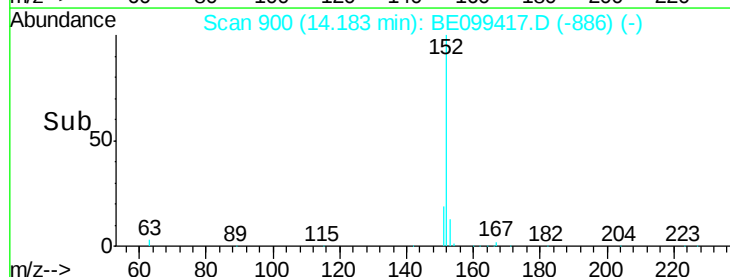
153 12.7 9.8 14.6

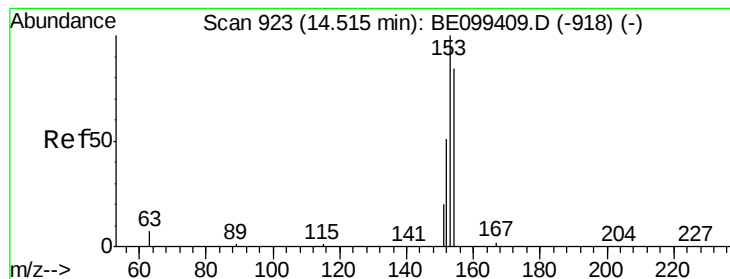


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.308 ng

RT: 14.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

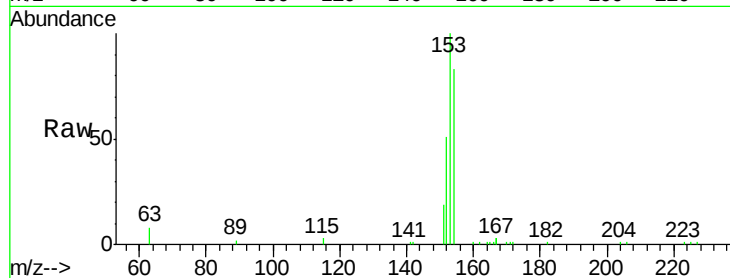
Tot Ion:154 Resp: 4991

Ion Ratio Lower Upper

154 100

153 117.7 92.6 138.8

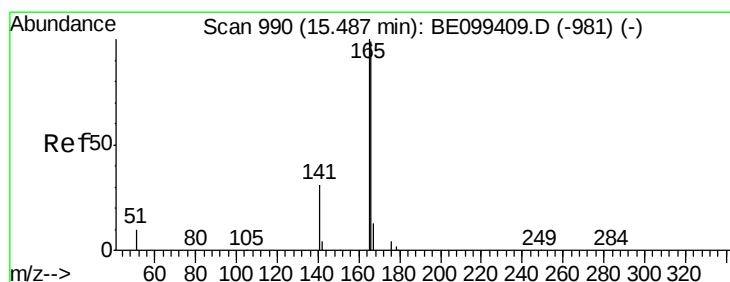
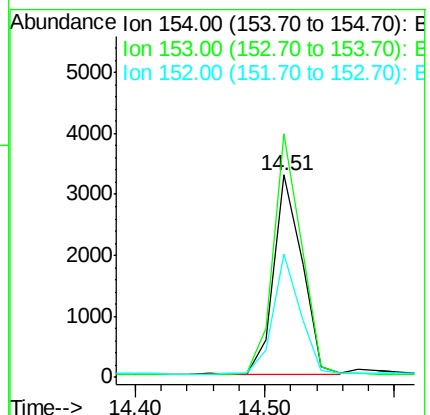
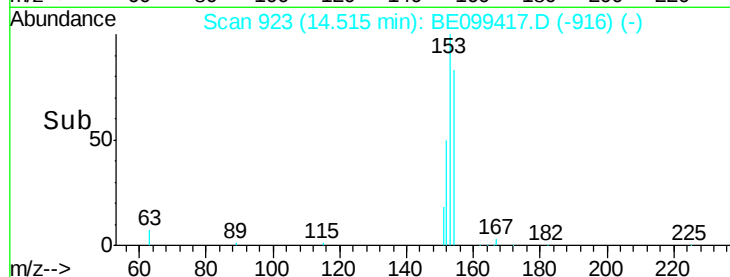
152 57.6 45.8 68.8



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: 0.292 ng

RT: 15.49 min Scan# 990

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

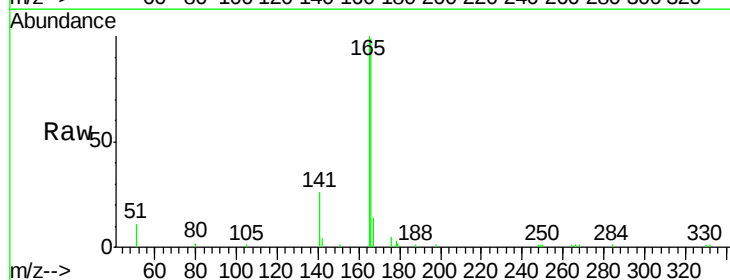
Tgt Ion:166 Resp: 6983

Ion Ratio Lower Upper

166 100

165 100.8 80.3 120.5

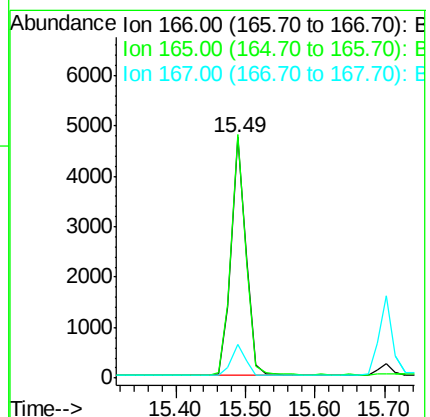
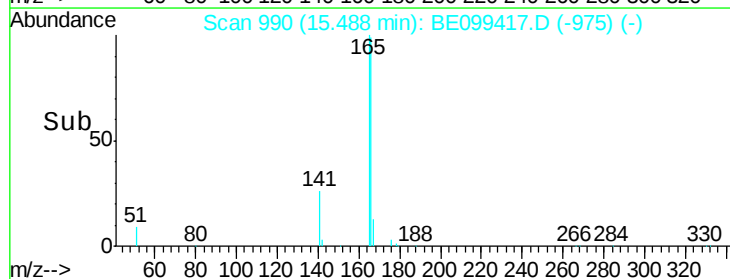
167 13.7 10.7 16.1

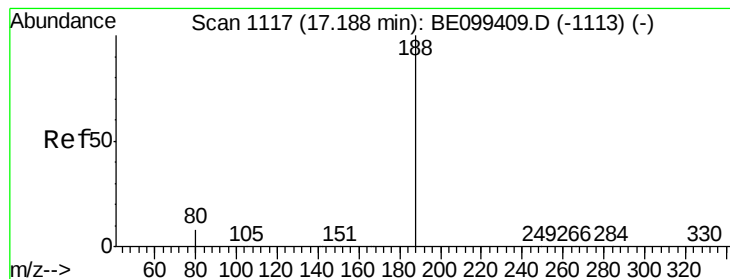


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

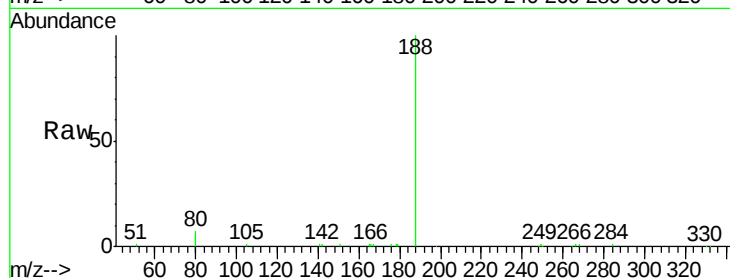
Tot Ion:188 Resp: 14829

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

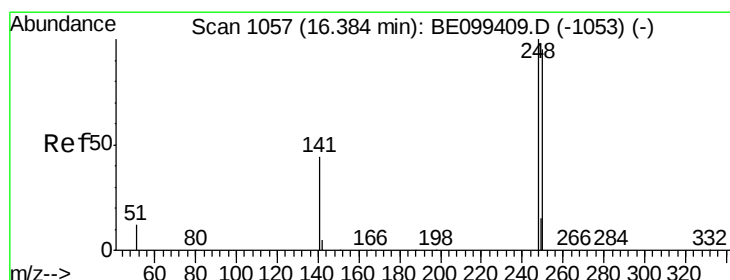
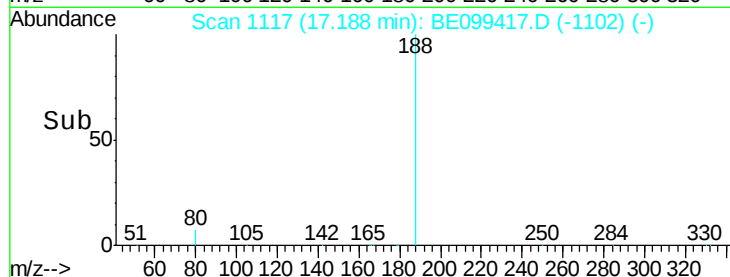
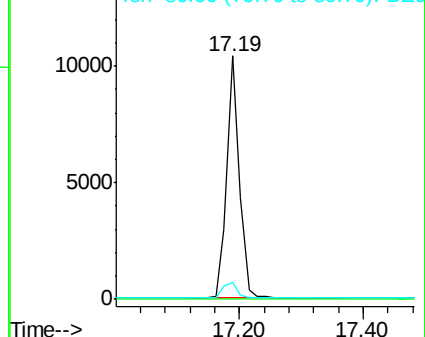
80 7.2 6.7 10.1



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: 0.327 ng

RT: 16.39 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

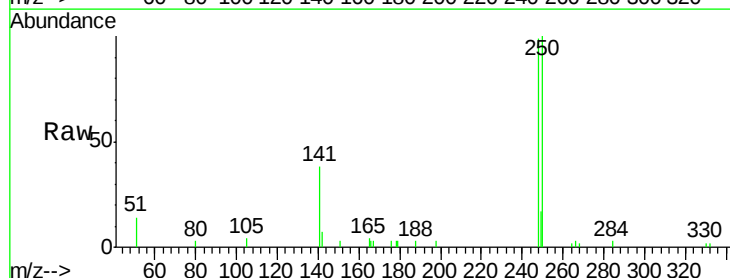
Tgt Ion:248 Resp: 2822

Ion Ratio Lower Upper

248 100

250 101.5 75.8 113.8

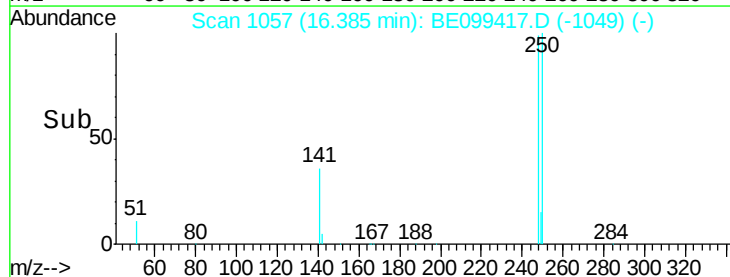
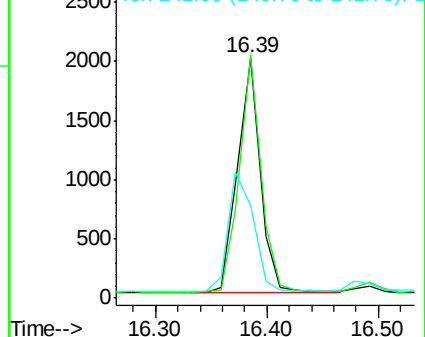
141 38.6 35.7 53.5

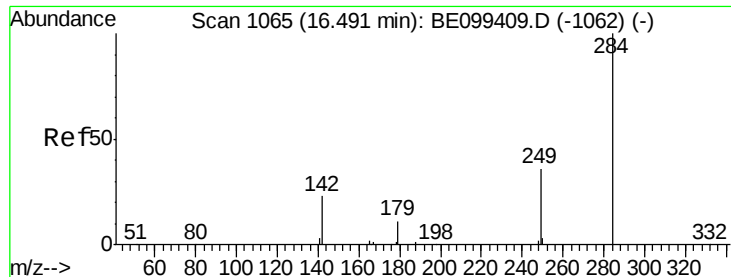


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.351 ng

RT: 16.49 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

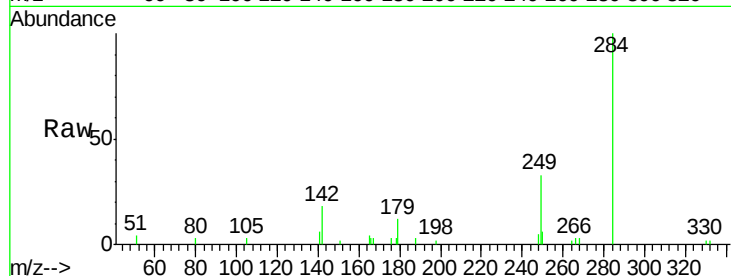
Tot Ion:284 Resp: 2887

Ion Ratio Lower Upper

284 100

142 25.6 21.0 31.6

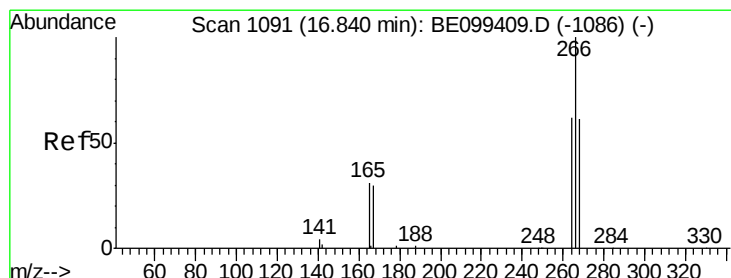
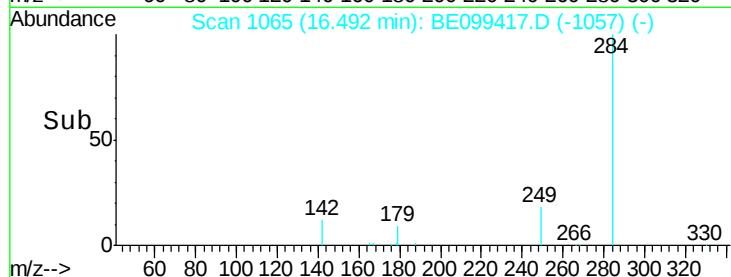
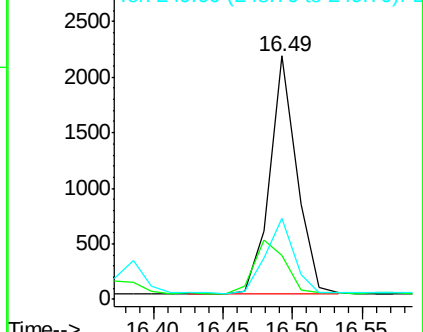
249 33.5 26.7 40.1



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: 0.589 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

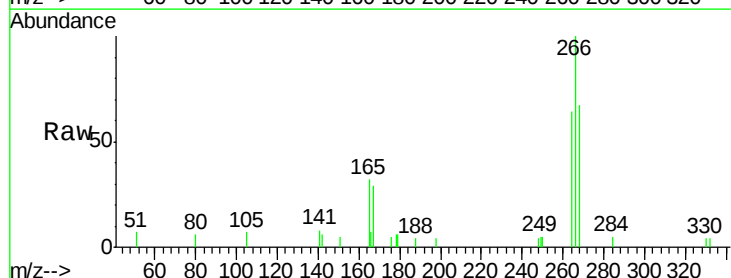
Tgt Ion:266 Resp: 1848

Ion Ratio Lower Upper

266 100

264 63.8 50.8 76.2

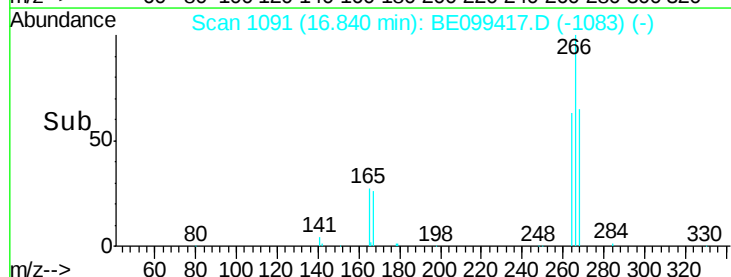
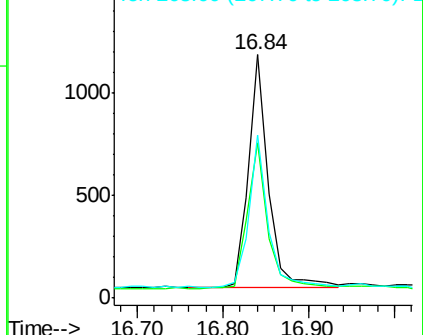
268 67.1 50.5 75.7

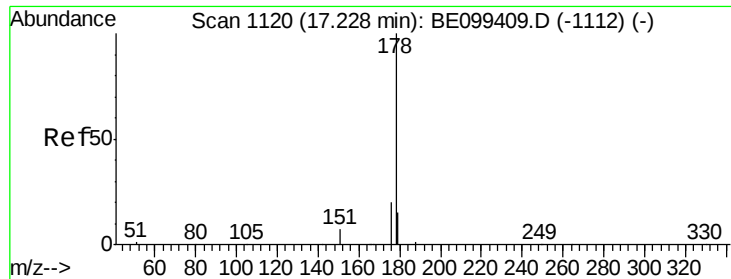


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.343 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

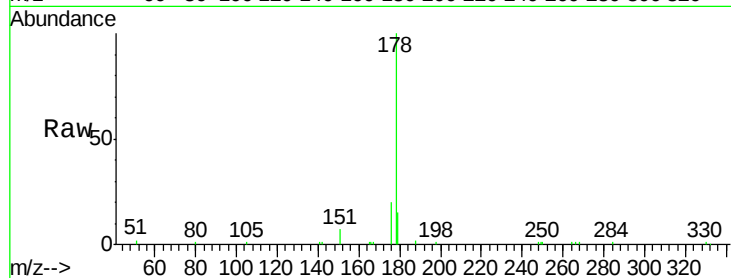
Tot Ion:178 Resp: 13117

Ion Ratio Lower Upper

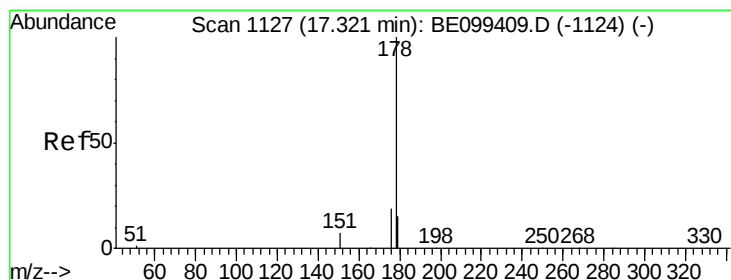
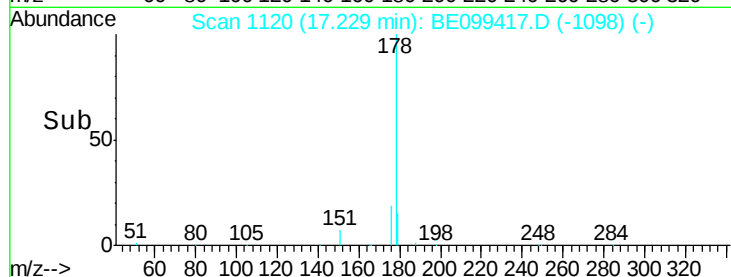
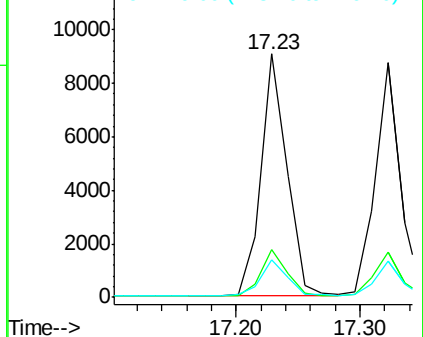
178 100

176 19.3 15.6 23.4

179 15.5 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: 0.332 ng

RT: 17.32 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

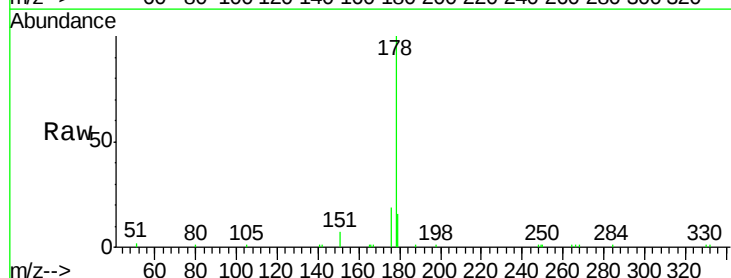
Tgt Ion:178 Resp: 12092

Ion Ratio Lower Upper

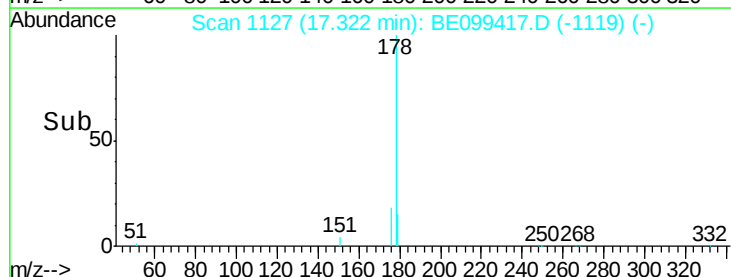
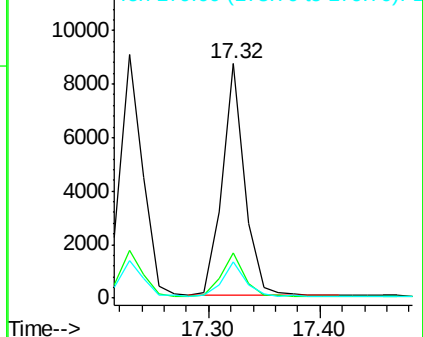
178 100

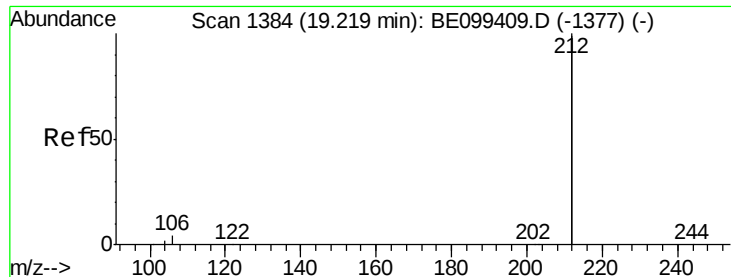
176 19.5 14.9 22.3

179 14.7 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

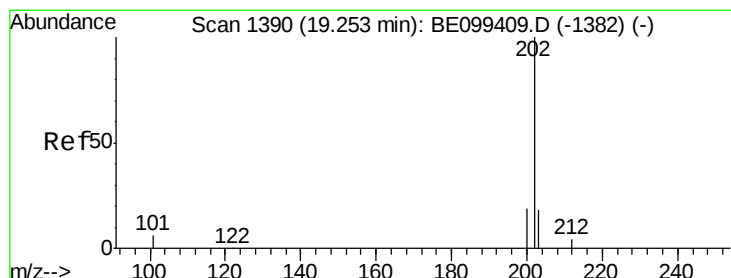
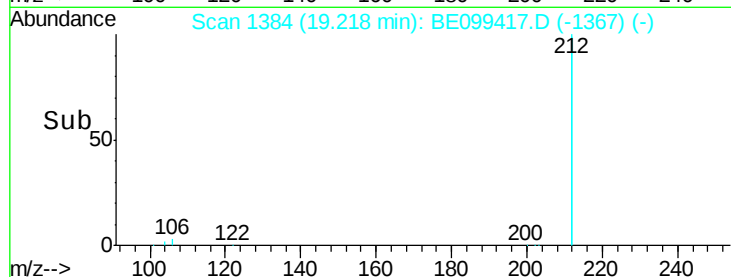
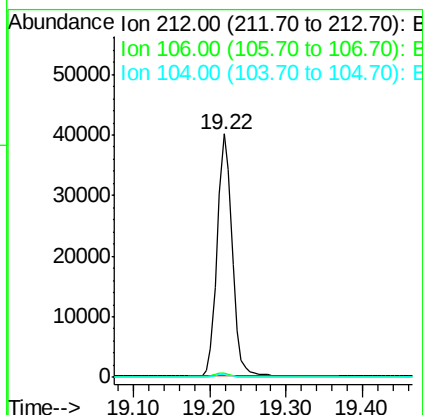
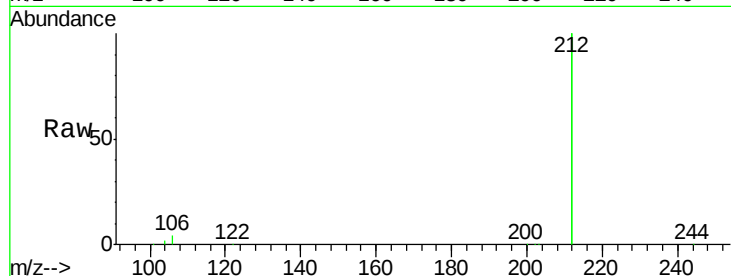




#25
Fluoranthene-d10
Concen: 0.272 ng
RT: 19.22 min Scan# 1384
Delta R.T. -0.00 min
Lab File: BE099417.D
Acq: 30 Apr 2019 9:32

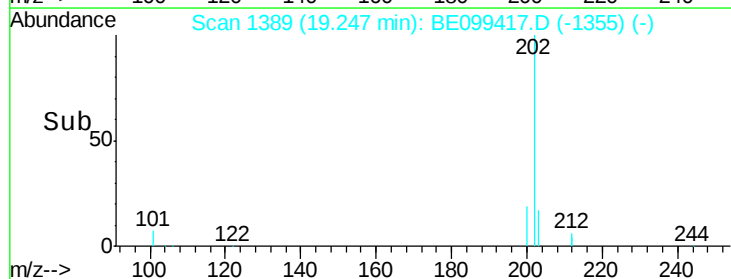
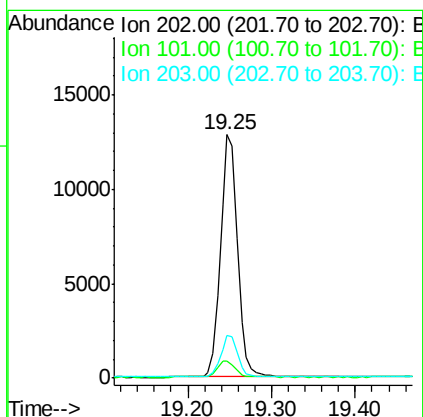
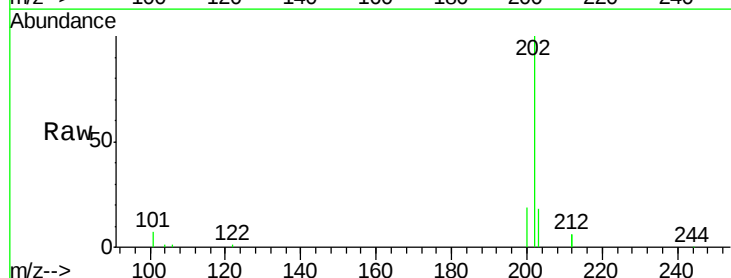
Instrument :
BNA_E
ClientSampleId :
PB119229BS

Tot Ion:212 Resp: 54359
Ion Ratio Lower Upper
212 100
106 1.8 1.5 2.3
104 1.0 0.9 1.3



#26
Fluoranthene
Concen: 0.317 ng
RT: 19.25 min Scan# 1389
Delta R.T. -0.01 min
Lab File: BE099417.D
Acq: 30 Apr 2019 9:32

Tgt Ion:202 Resp: 18191
Ion Ratio Lower Upper
202 100
101 7.0 5.4 8.0
203 17.0 13.9 20.9





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

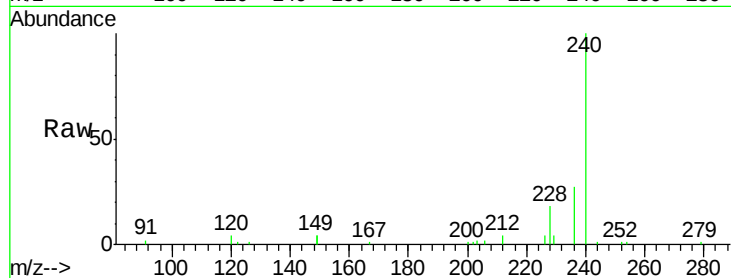
Tot Ion:240 Resp: 17251

Ion Ratio Lower Upper

240 100

120 4.1 4.0 6.0

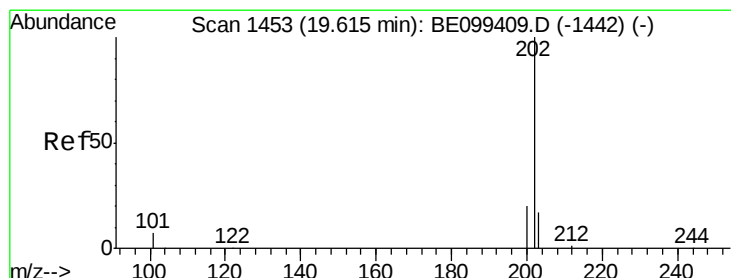
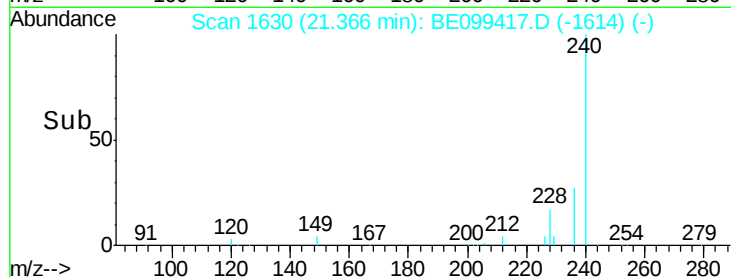
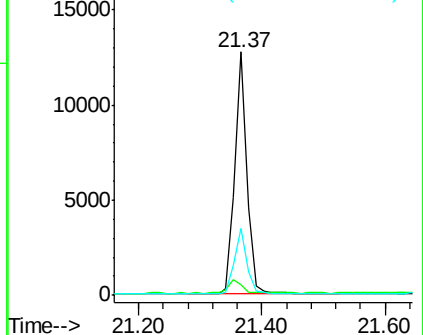
236 27.5 22.0 33.0



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: 0.419 ng

RT: 19.61 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

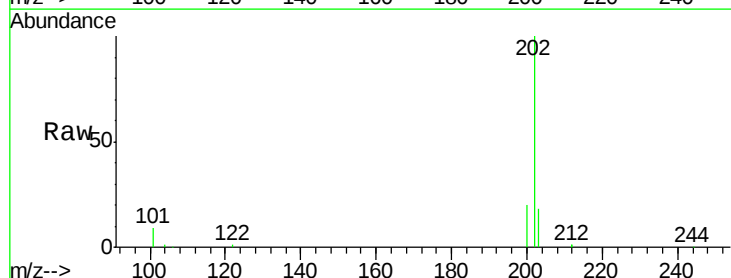
Tgt Ion:202 Resp: 18837

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

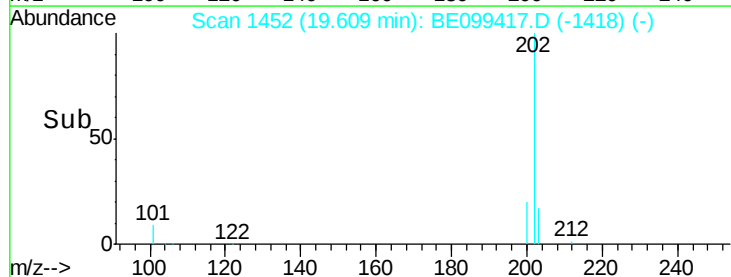
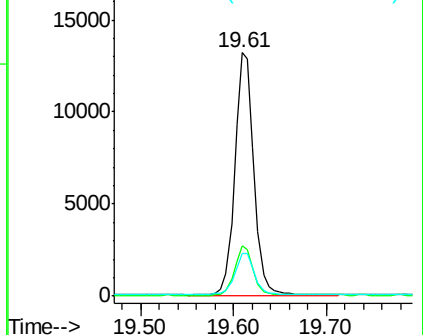
203 17.7 13.9 20.9

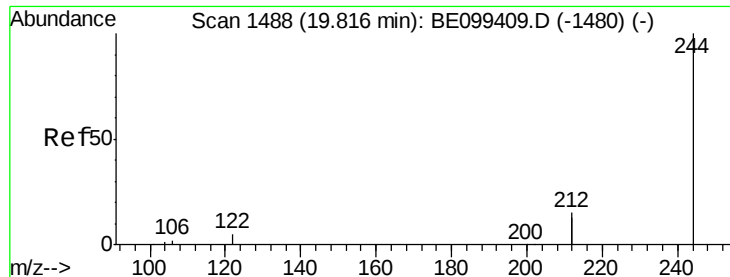


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.369 ng

RT: 19.82 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

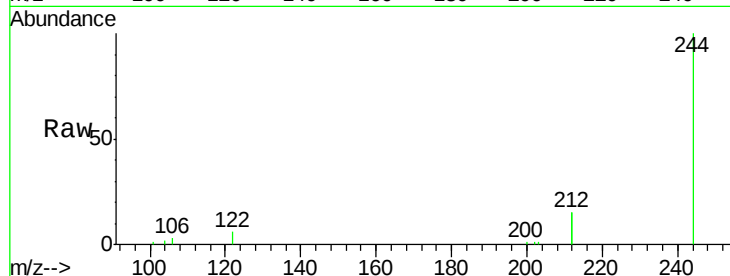
Tot Ion:244 Resp: 11653

Ion Ratio Lower Upper

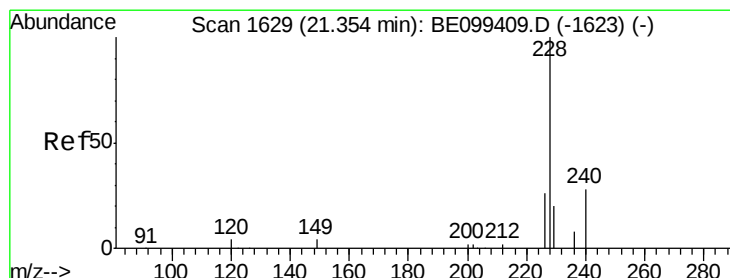
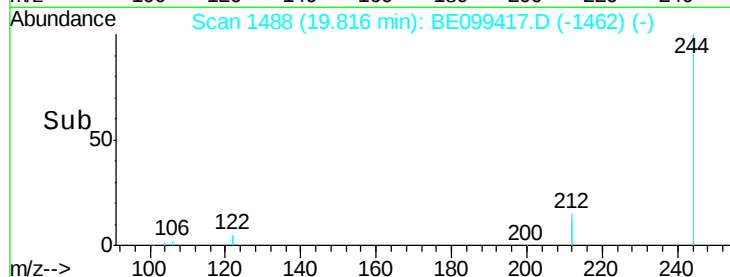
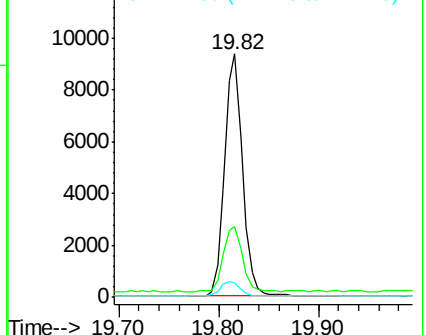
244 100

212 29.3 23.2 34.8

122 5.7 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: 0.402 ng

RT: 21.34 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

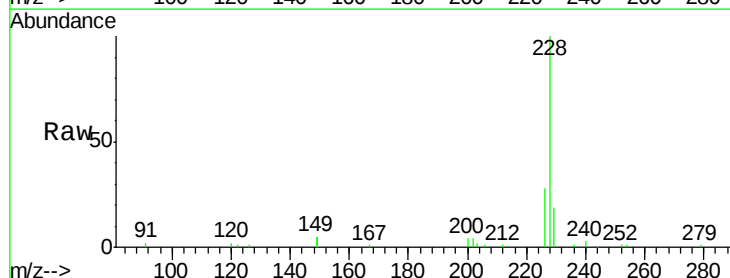
Tgt Ion:228 Resp: 22084

Ion Ratio Lower Upper

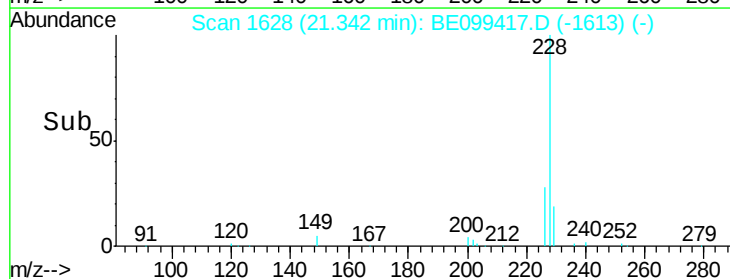
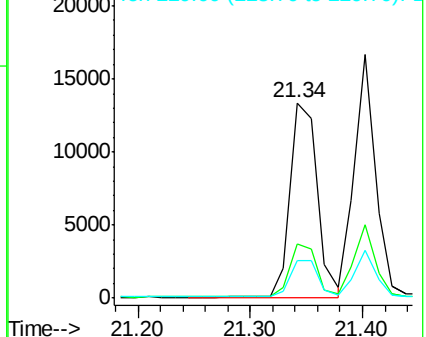
228 100

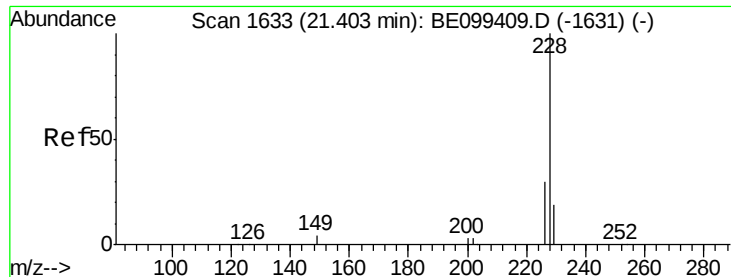
226 28.0 21.0 31.6

229 19.2 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: 0.402 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

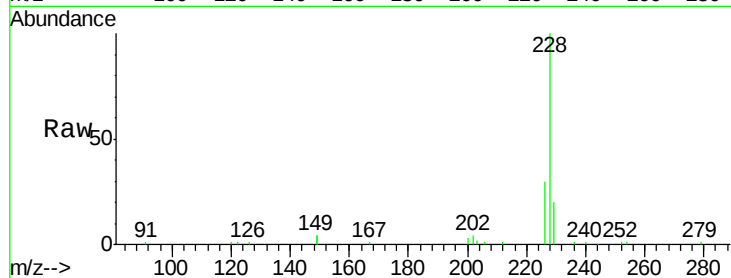
Tot Ion:228 Resp: 21633

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

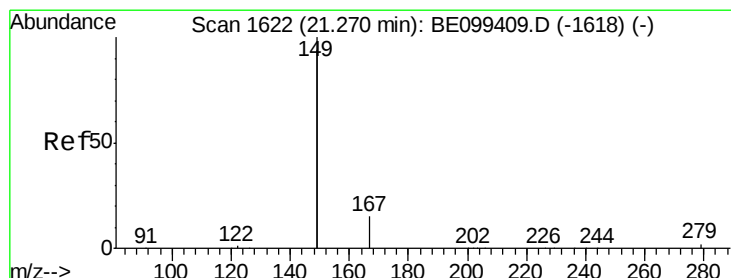
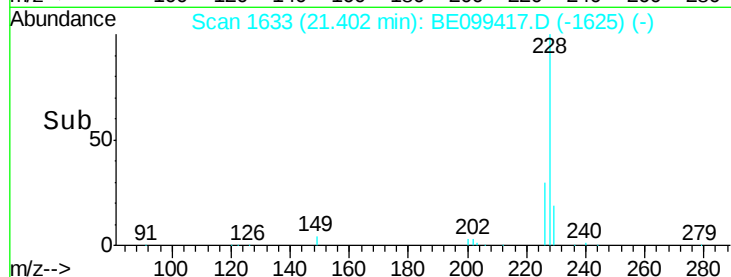
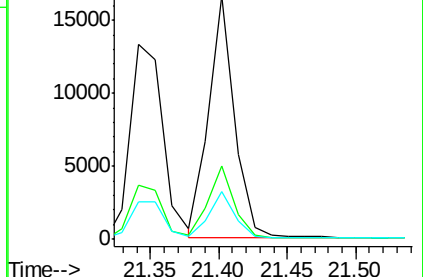
229 19.8 15.8 23.8



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: 0.319 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

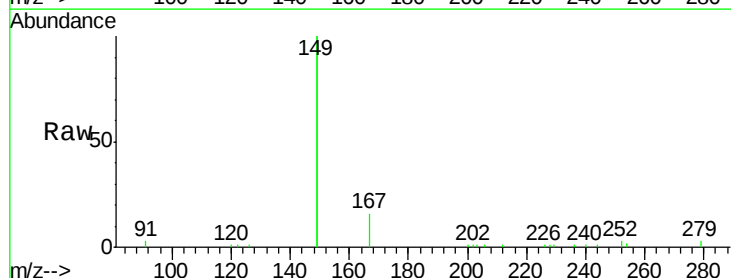
Tgt Ion:149 Resp: 30307

Ion Ratio Lower Upper

149 100

167 7.7 5.8 8.6

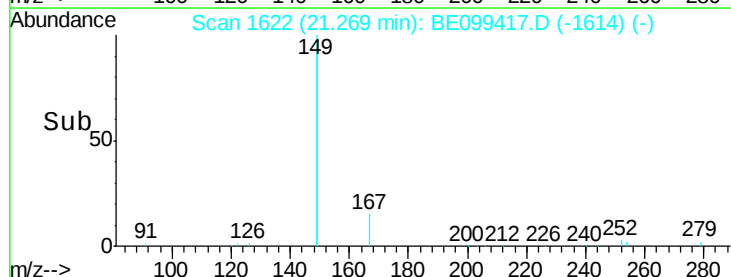
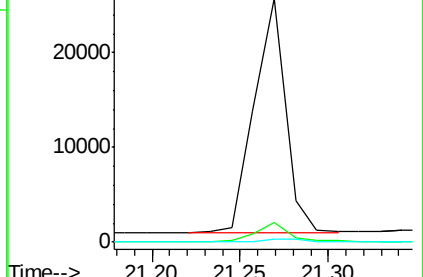
279 1.5 1.0 1.6



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

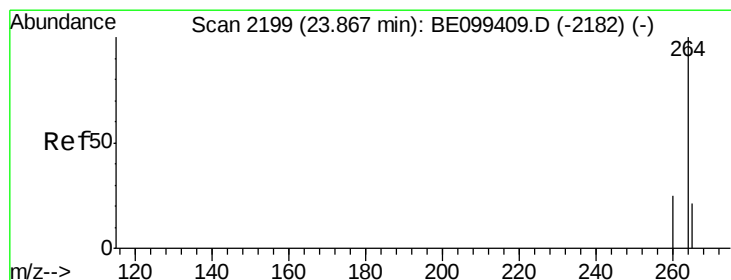
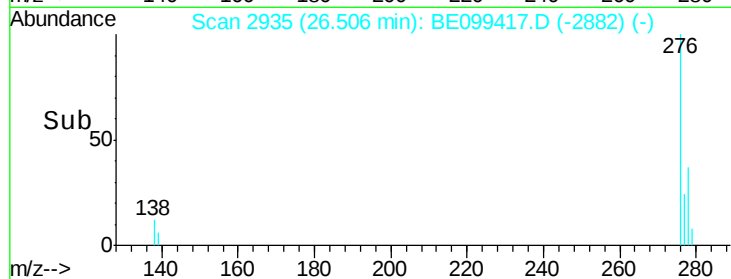
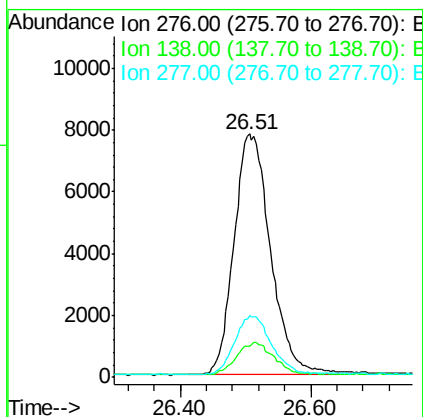
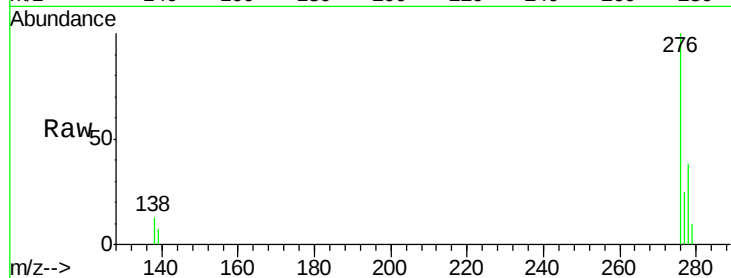




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.477 ng
 RT: 26.51 min Scan# 2935
 Delta R.T. -0.01 min
 Lab File: BE099417.D
 Acq: 30 Apr 2019 9:32

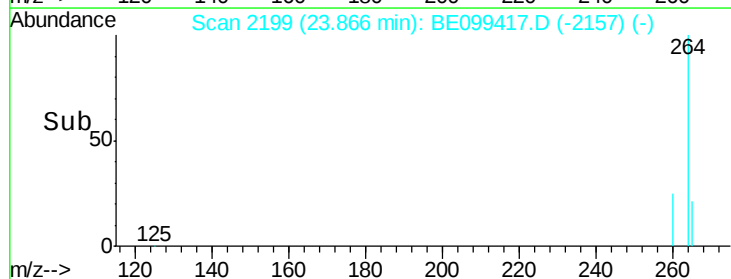
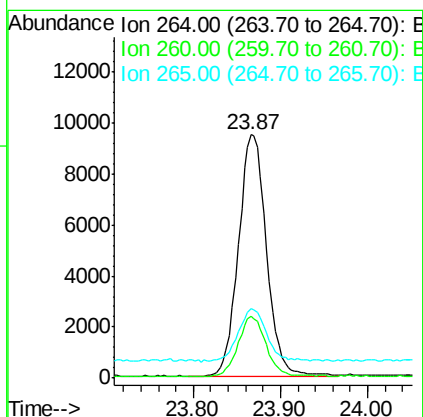
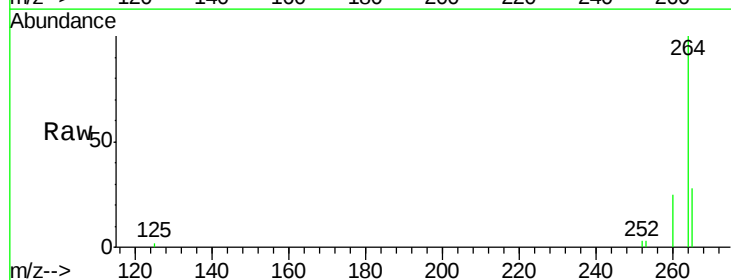
Instrument :
 BNA_E
 ClientSampleId :
 PB119229BS

Tot Ion:276 Resp: 30343
 Ion Ratio Lower Upper
 276 100
 138 13.5 10.2 15.2
 277 24.3 19.2 28.8



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.87 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: BE099417.D
 Acq: 30 Apr 2019 9:32

Tgt Ion:264 Resp: 21024
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.2 30.2
 265 28.4 21.3 31.9





#35

Benzo(b)fluoranthene

Concen: 0.363 ng

RT: 23.15 min Scan# 1998

Delta R.T. 0.05 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

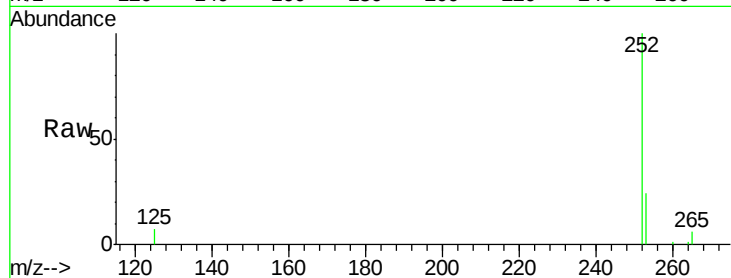
Tot Ion:252 Resp: 22008

Ion Ratio Lower Upper

252 100

253 24.1 18.1 27.1

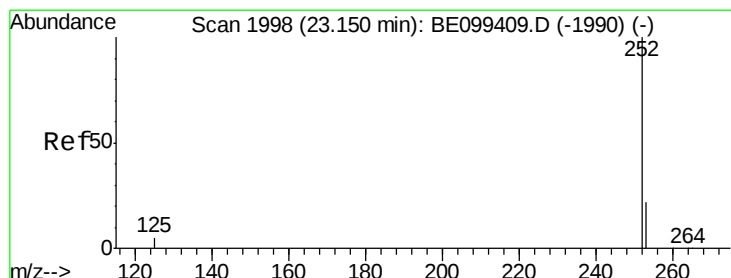
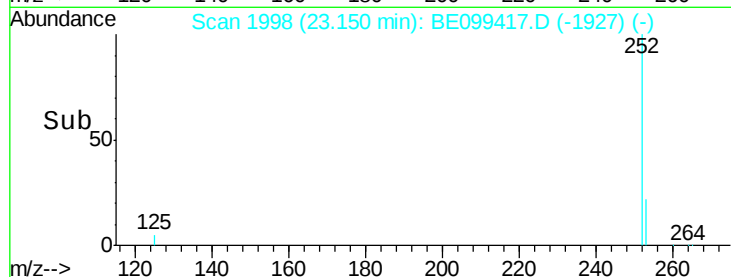
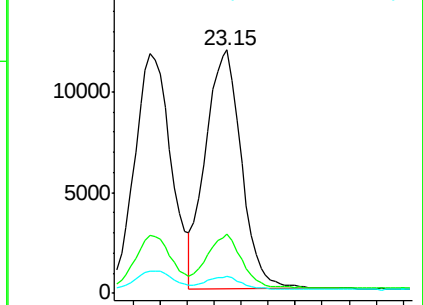
125 6.8 5.6 8.4



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: 0.376 ng

RT: 23.15 min Scan# 1998

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

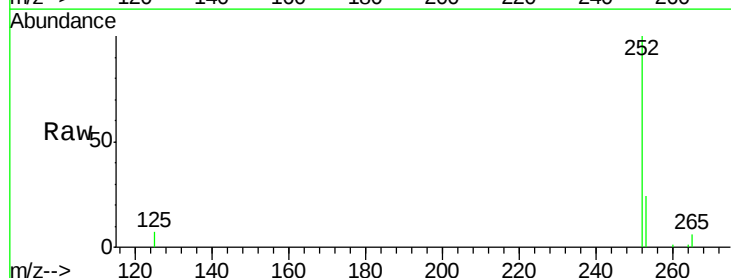
Tgt Ion:252 Resp: 22008

Ion Ratio Lower Upper

252 100

253 24.1 18.4 27.6

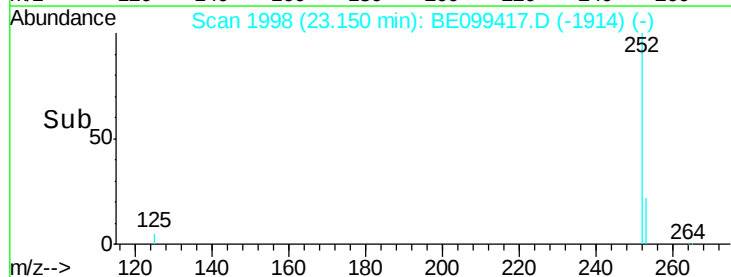
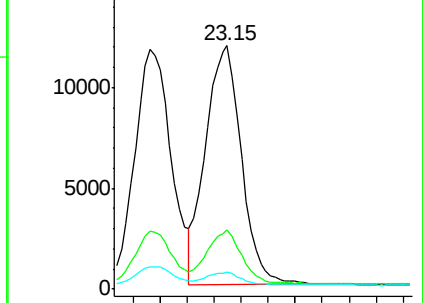
125 6.8 5.0 7.4



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: 0.384 ng

RT: 23.75 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampled :

PB119229BS

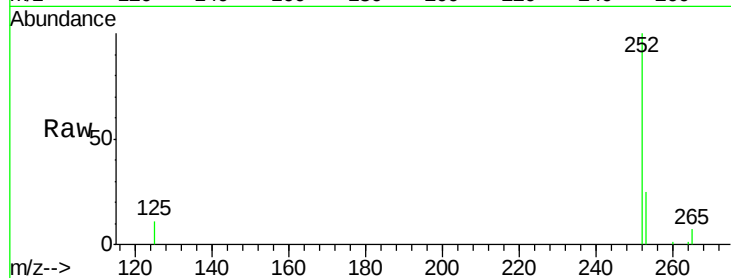
Tot Ion:252 Resp: 22019

Ion Ratio Lower Upper

252 100

253 24.8 18.9 28.3

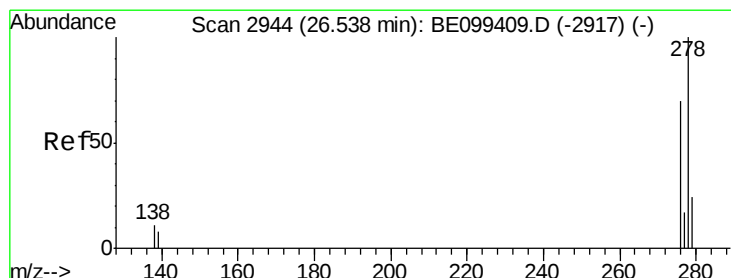
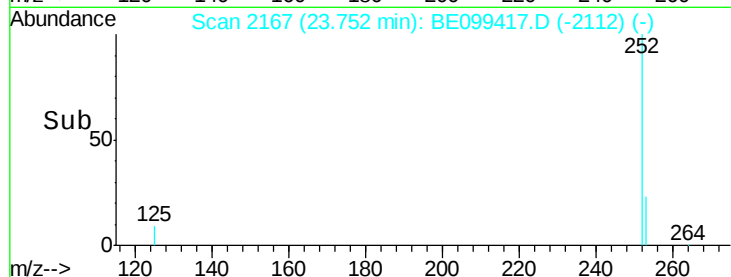
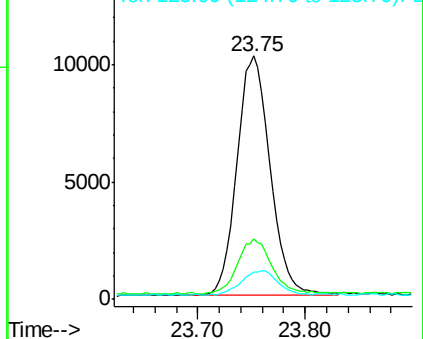
125 11.2 6.7 10.1#



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: 0.438 ng

RT: 26.54 min Scan# 2944

Delta R.T. 0.00 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

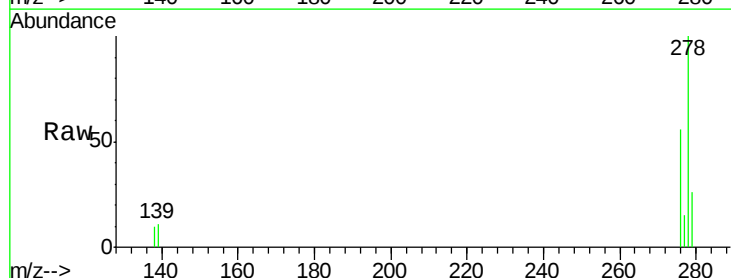
Tgt Ion:278 Resp: 25659

Ion Ratio Lower Upper

278 100

139 11.0 7.7 11.5

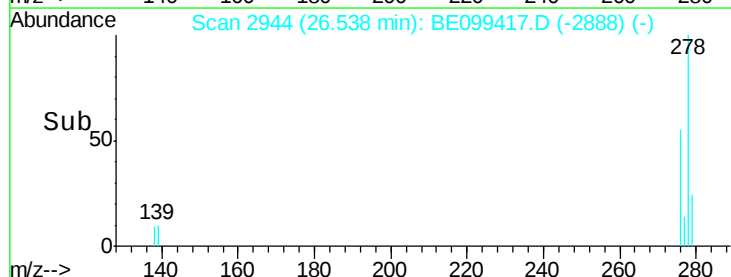
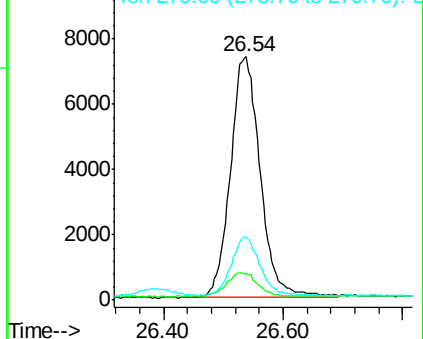
279 26.1 20.2 30.2



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: 0.442 ng

RT: 27.33 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BE099417.D

Acq: 30 Apr 2019 9:32

Instrument :

BNA_E

ClientSampleId :

PB119229BS

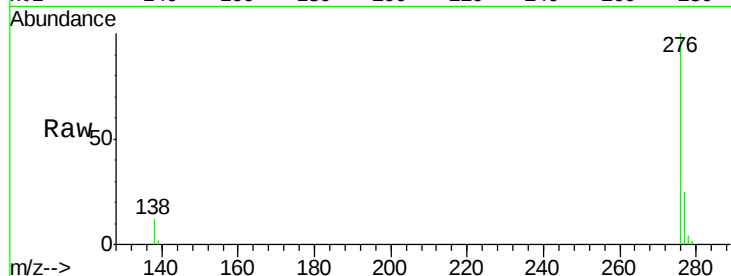
Tot Ion: 276 Resp: 25941

Ion Ratio Lower Upper

276 100

277 25.1 19.5 29.3

138 11.7 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

