

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031218\
 Data File : BE095735.D
 Acq On : 12 Mar 2018 18:06
 Operator : SJ/JU
 Sample : J1867-14MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C19013071MSD

Quant Time: Mar 13 10:47:23 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	1398	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5382	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	4167	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	6853	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7143	0.40	ng	0.00
34) Perylene-d12	24.43	264	6818	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	707	0.19	ng	0.00
5) Phenol-d6	7.56	99	722	0.14	ng	0.00
8) Nitrobenzene-d5	9.61	82	2769	0.50	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	3412	0.38	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	562	0.40	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	7083	0.38	ng	0.00
25) Fluoranthene-d10	19.69	212	34379	0.38	ng	0.00
29) Terphenyl-d14	20.25	244	7897	0.55	ng	0.00

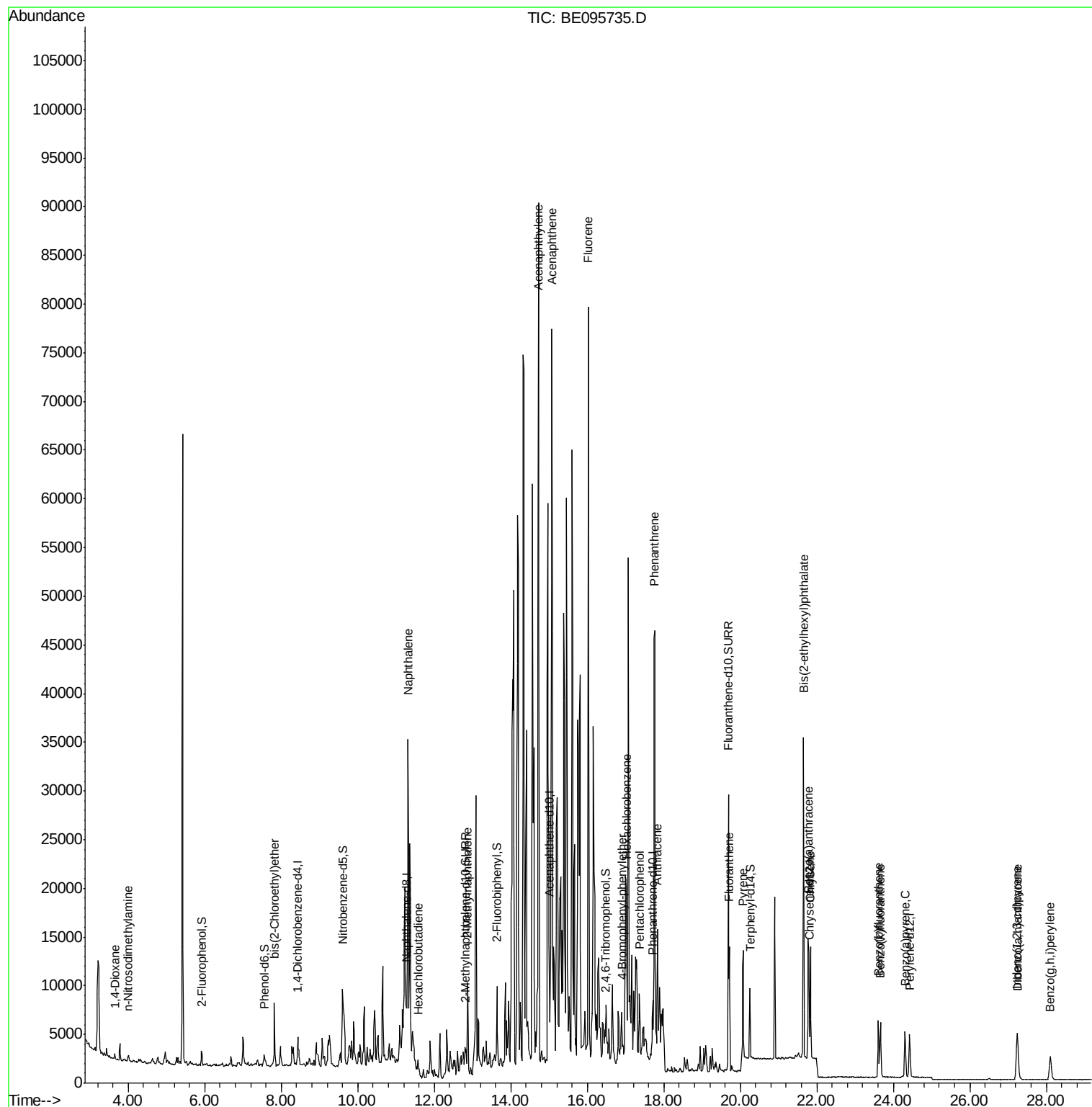
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.64	88	359	0.163	ng	# 78
3) n-Nitrosodimethylamine	3.99	42	516	0.189	ng	83
6) bis(2-Chloroethyl)ether	7.82	93	2299	0.438	ng	92
9) Naphthalene	11.31	128	51235	0.826	ng	# 90
10) Hexachlorobutadiene	11.57	225	1550	0.428	ng	95
12) 2-Methylnaphthalene	12.87	142	6325	0.591	ng	# 92
16) Acenaphthylene	14.73	152	17837	0.762	ng	# 35
17) Acenaphthene	15.07	154	22078	1.502	ng	# 76
18) Fluorene	16.03	166	51444	2.822	ng	# 79
20) 4-Bromophenyl-phenylether	16.90	248	1803	0.419	ng	# 75
21) Hexachlorobenzene	17.02	284	1697	0.381	ng	# 72
22) Pentachlorophenol	17.36	266	1631	1.176	ng	# 75
23) Phenanthrene	17.75	178	52011	2.428	ng	# 95
24) Anthracene	17.84	178	12982	0.660	ng	# 78
26) Fluoranthene	19.72	202	11275	0.428	ng	97
28) Pyrene	20.07	202	14827	0.508	ng	96
30) Benzo(a)anthracene	21.78	228	10407	0.447	ng	98
31) Chrysene	21.84	228	9660	0.417	ng	100
32) Bis(2-ethylhexyl)phthalate	21.66	149	38530	0.935	ng	98
33) Indeno(1,2,3-cd)pyrene	27.23	276	7105	0.316	ng	# 94
35) Benzo(b)fluoranthene	23.61	252	8427	0.347	ng	# 90
36) Benzo(k)fluoranthene	23.66	252	8456	0.350	ng	94
37) Benzo(a)pyrene	24.31	252	7912	0.361	ng	93
38) Dibenzo(a,h)anthracene	27.25	278	5948	0.305	ng	97
39) Benzo(g,h,i)perylene	28.10	276	6195	0.297	ng	# 93

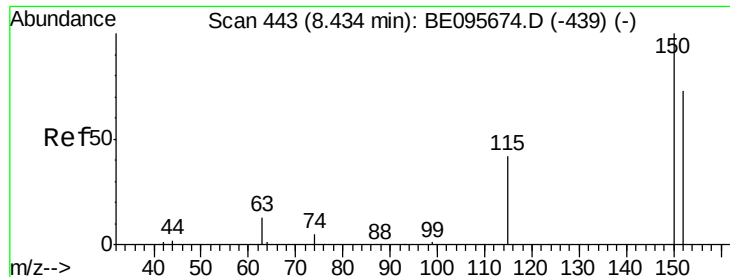
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031218\
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.43 min Scan# 569

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

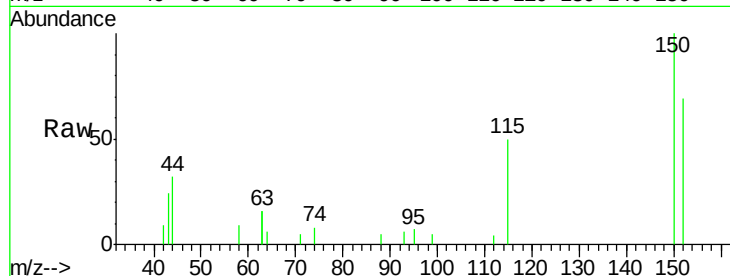
Tot Ion:152 Resp: 1398

Ion Ratio Lower Upper

152 100

150 145.0 117.2 175.8

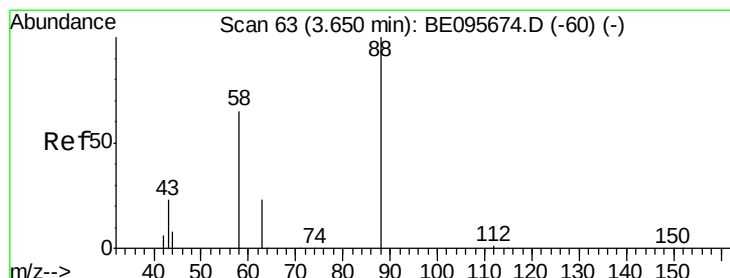
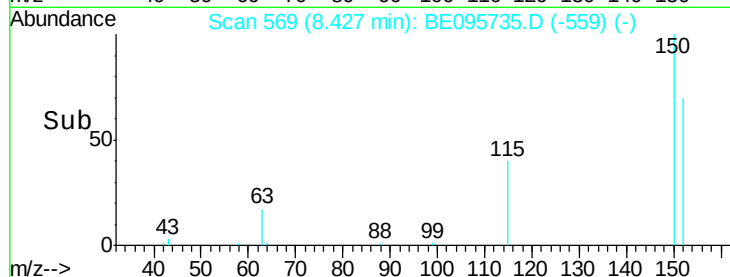
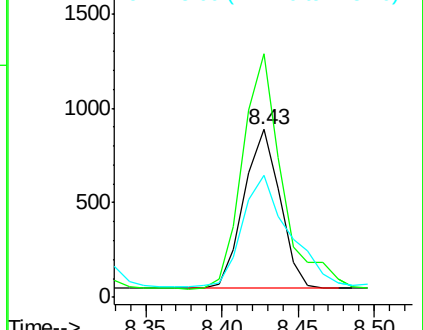
115 72.4 57.0 85.6



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: 0.163 ng

RT: 3.64 min Scan# 80

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

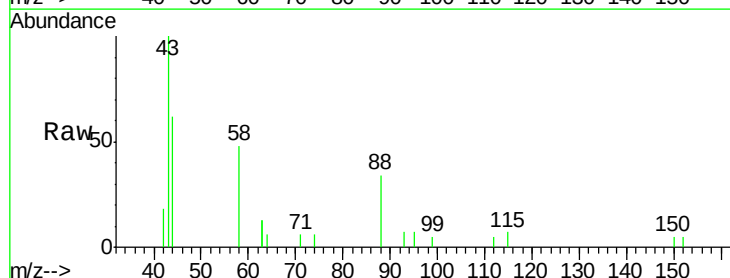
Tgt Ion: 88 Resp: 359

Ion Ratio Lower Upper

88 100

58 98.9 63.2 94.8#

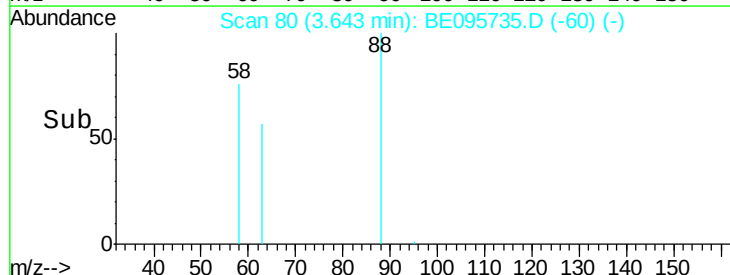
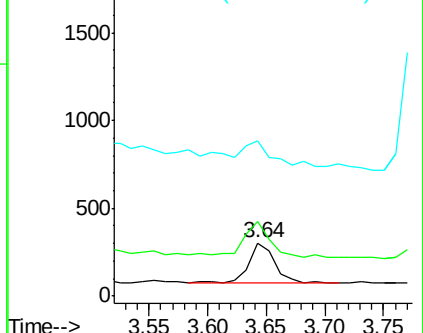
43 66.3 41.2 61.8#

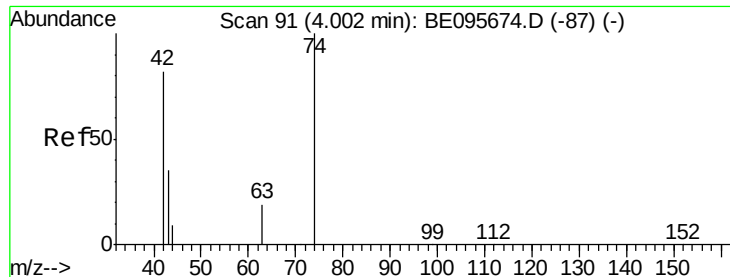


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



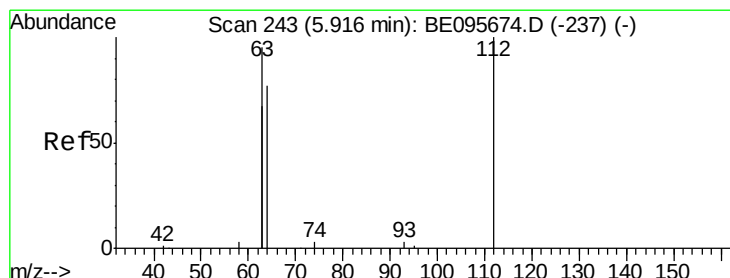
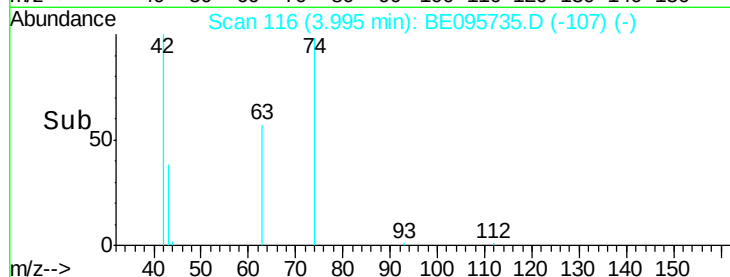
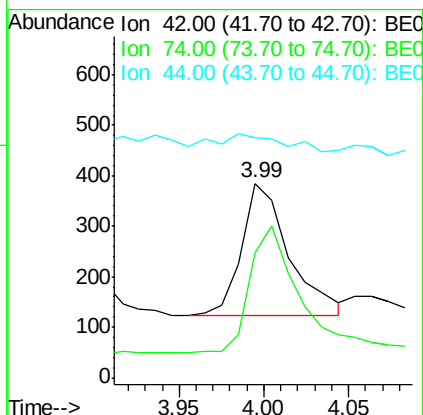
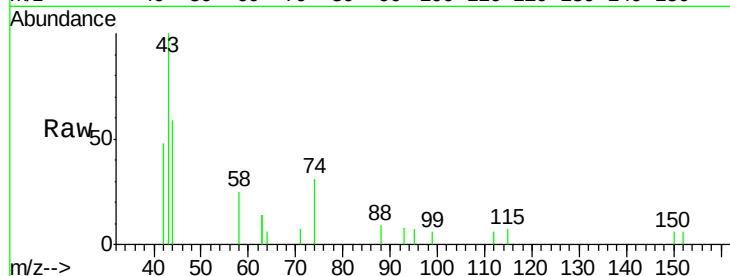


#3

n-Nitrosodimethylamine
 Concen: 0.189 ng
 RT: 3.99 min Scan# 116
 Delta R.T. -0.01 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

Instrument :
 BNA_E
 ClientSampleId :
 C19013071MSD

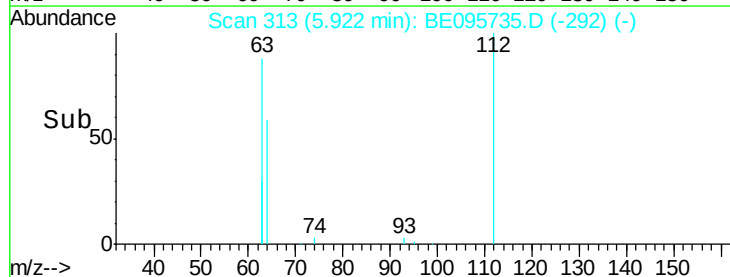
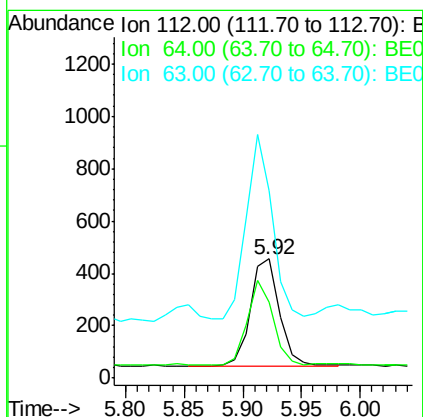
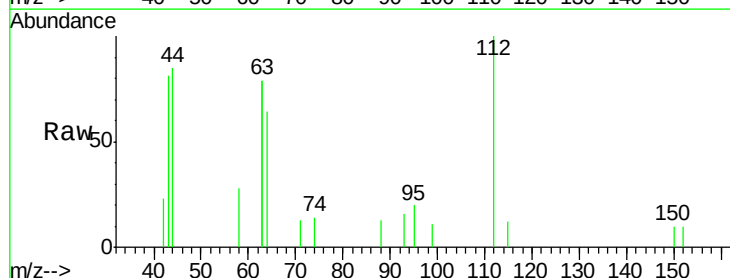
Tot Ion: 42 Resp: 516
 Ion Ratio Lower Upper
 42 100
 74 98.4 96.0 144.0
 44 14.9 12.0 18.0

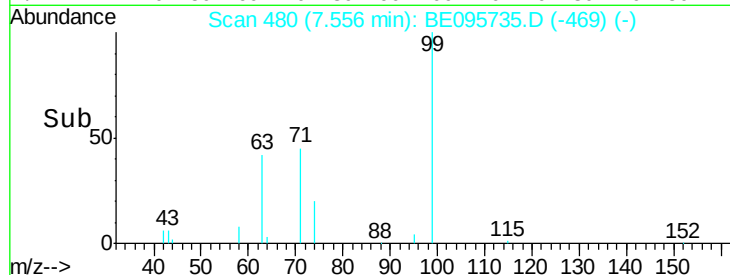
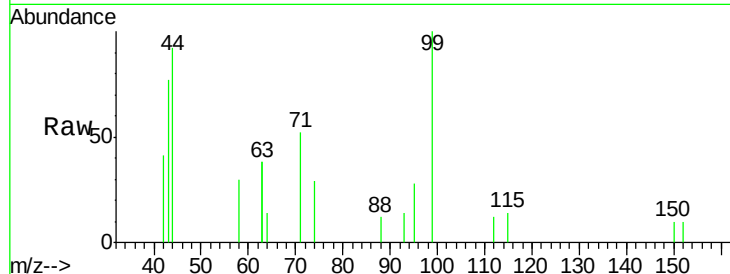
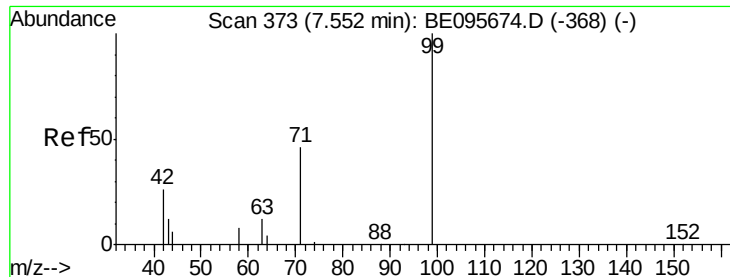


#4

2-Fluorophenol
 Concen: 0.192 ng
 RT: 5.92 min Scan# 313
 Delta R.T. 0.01 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

Tgt Ion: 112 Resp: 707
 Ion Ratio Lower Upper
 112 100
 64 69.6 60.1 90.1
 63 153.6 116.8 175.2





#5

Phenol-d6

Concen: 0.141 ng

RT: 7.56 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

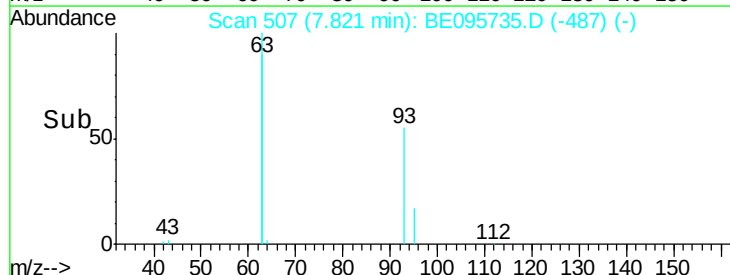
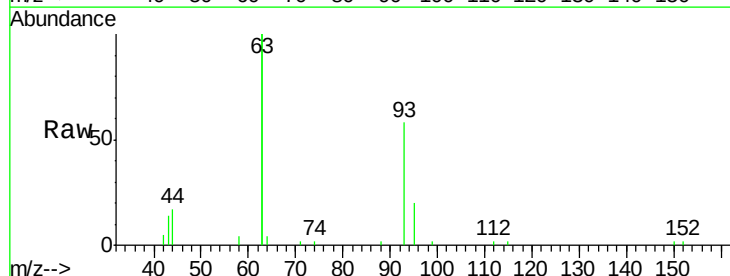
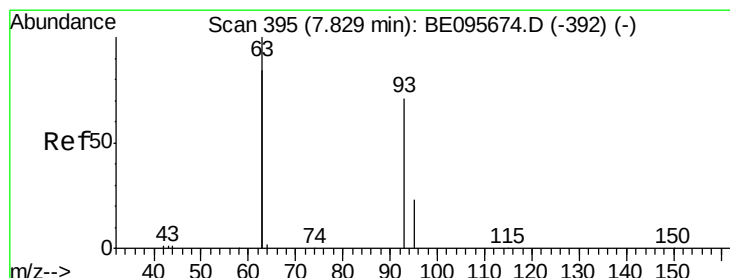
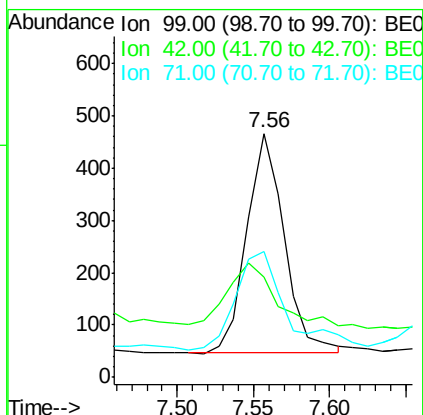
Tot Ion: 99 Resp: 722

Ion Ratio Lower Upper

99 100

42 35.2 20.2 30.2#

71 60.5 28.4 42.6#



#6

bis(2-Chloroethyl)ether

Concen: 0.438 ng

RT: 7.82 min Scan# 507

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

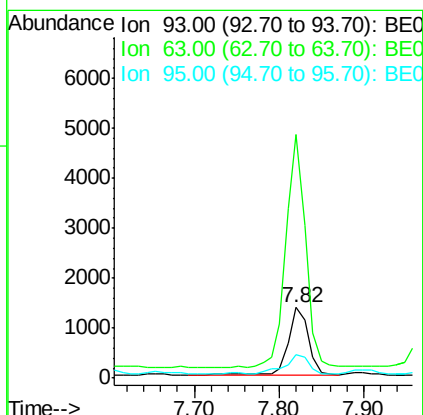
Tgt Ion: 93 Resp: 2299

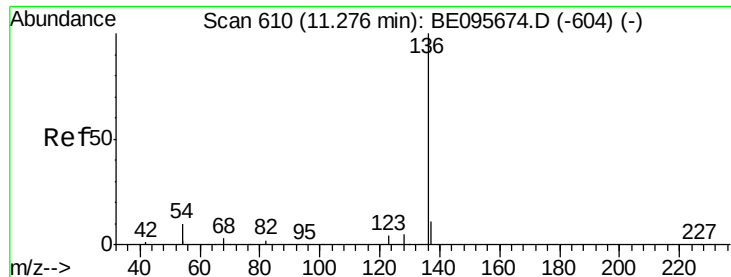
Ion Ratio Lower Upper

93 100

63 327.2 275.3 412.9

95 35.7 25.2 37.8





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

Tot Ion:136 Resp: 5382

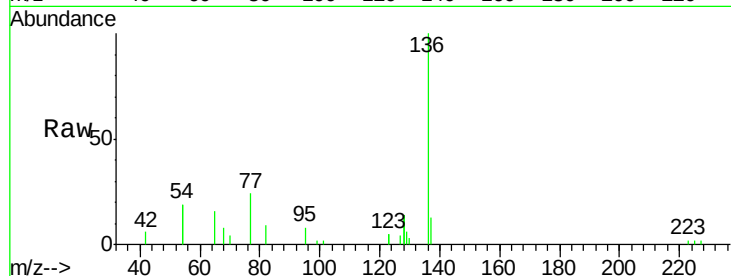
Ion Ratio Lower Upper

136 100

137 13.4 9.5 14.3

54 37.6 29.1 43.7

68 8.5 6.2 9.2

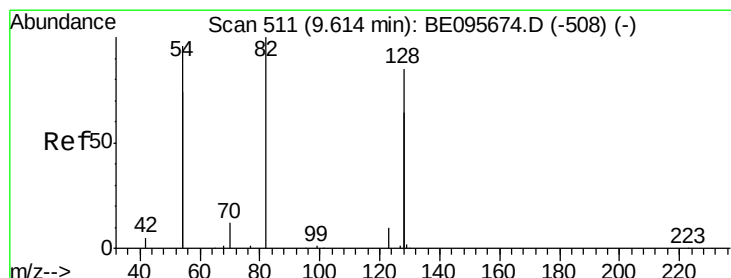
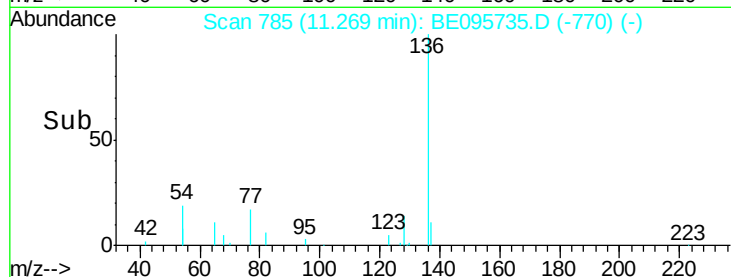
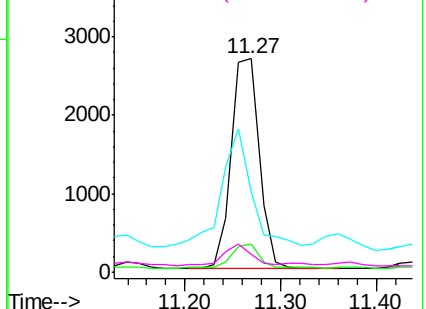


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.499 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

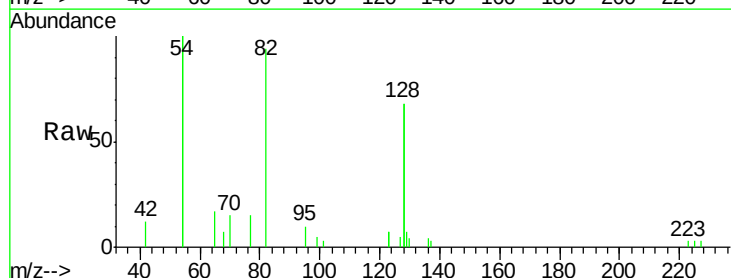
Tgt Ion: 82 Resp: 2769

Ion Ratio Lower Upper

82 100

128 144.9 150.0 225.0#

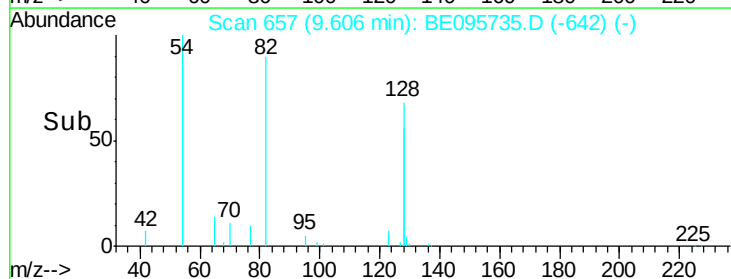
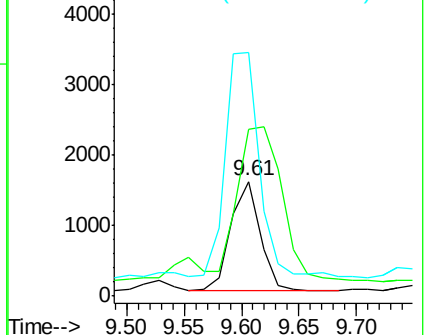
54 212.1 154.2 231.4

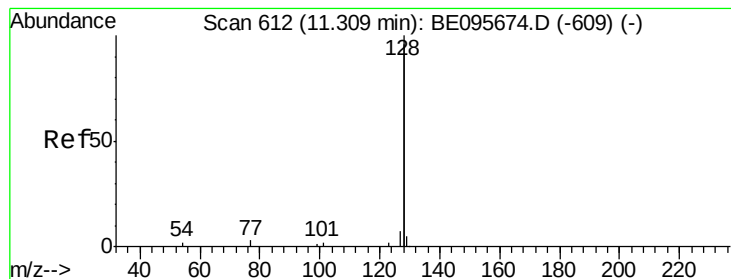


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.826 ng

RT: 11.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

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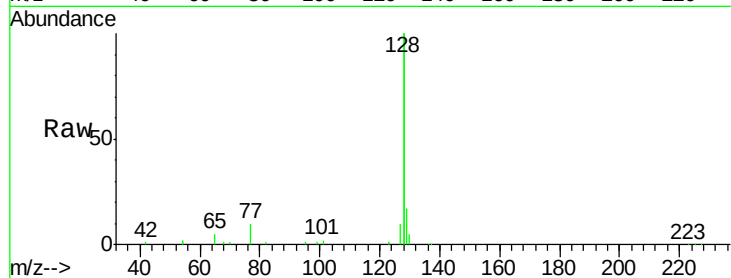
Tot Ion:128 Resp: 51235

Ion Ratio Lower Upper

128 100

129 8.4 2.6 3.8#

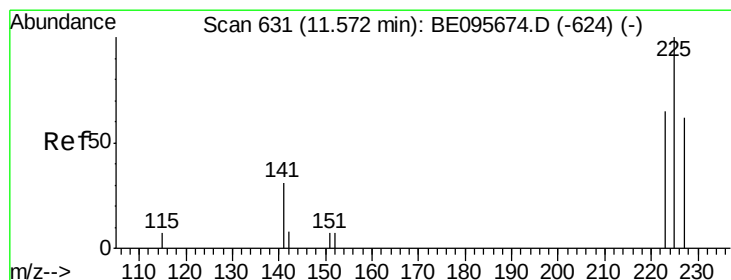
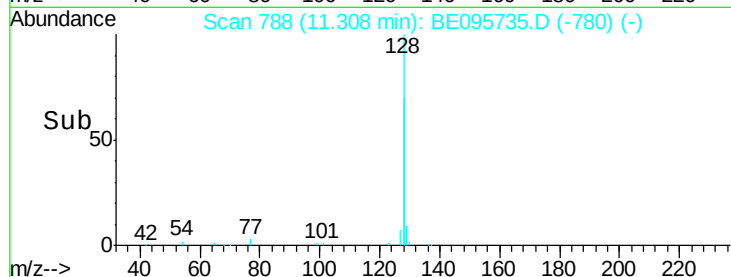
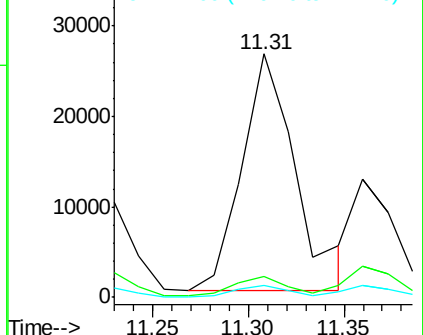
127 5.0 2.8 4.2#



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: 0.428 ng

RT: 11.57 min Scan# 812

Delta R.T. -0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

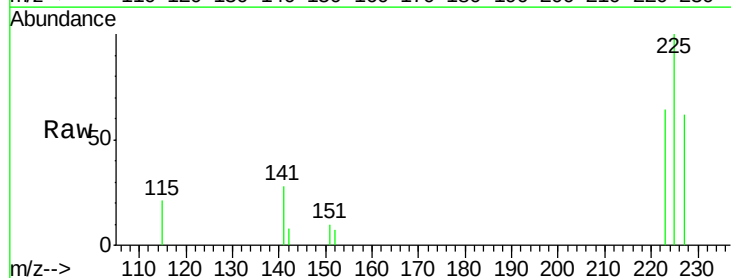
Tgt Ion:225 Resp: 1550

Ion Ratio Lower Upper

225 100

223 61.7 53.0 79.6

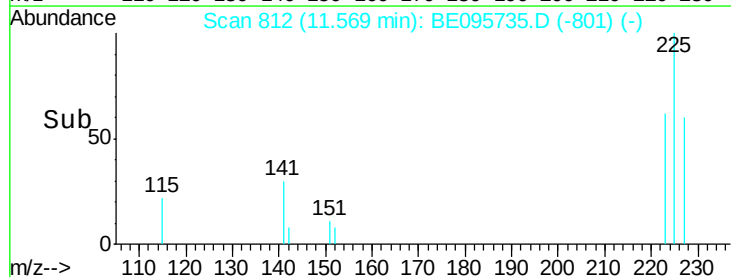
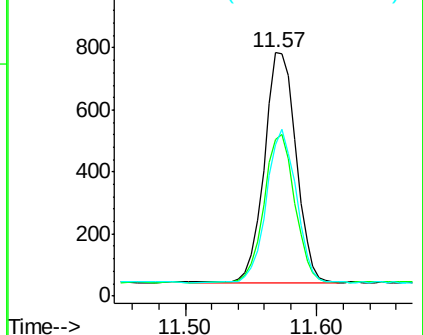
227 61.2 51.4 77.2

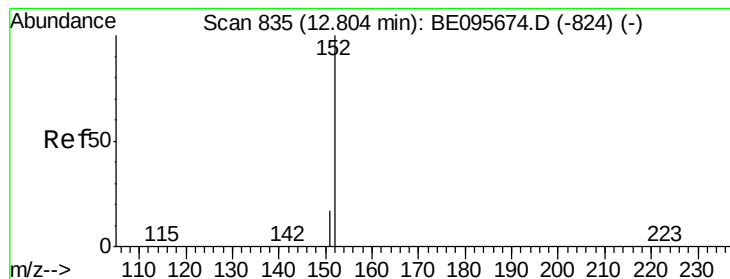


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

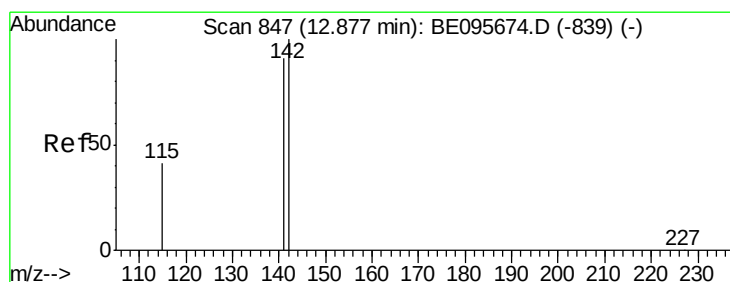
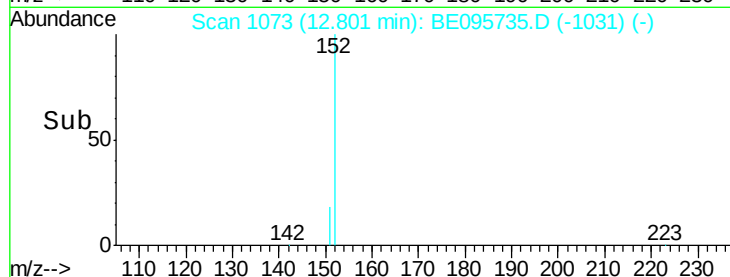
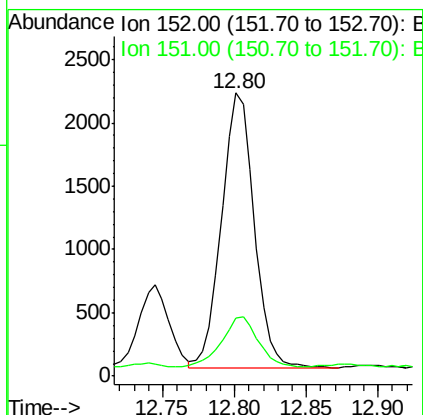
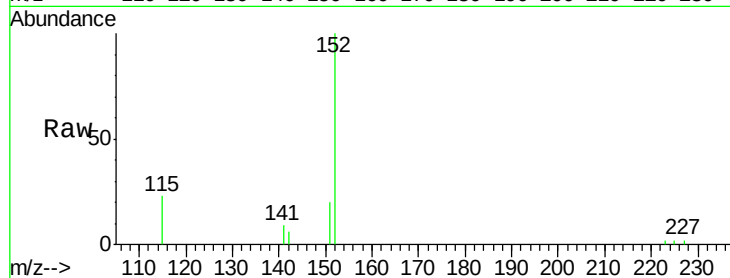




#11
 2-Methylnaphthalene-d10
 Concen: 0.379 ng
 RT: 12.80 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

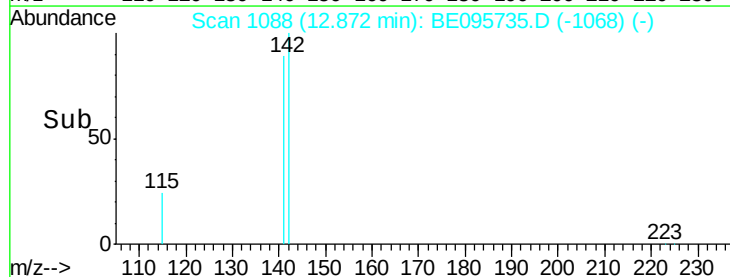
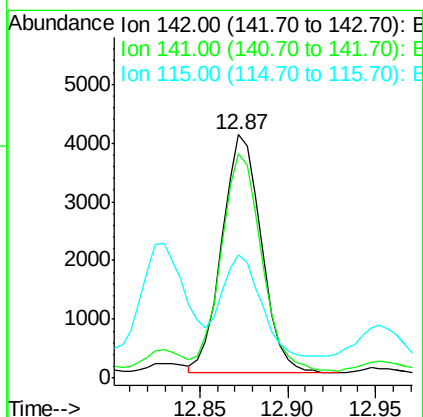
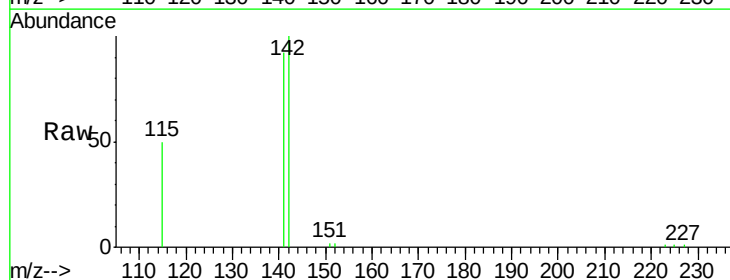
Instrument :
 BNA_E
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 C19013071MSD

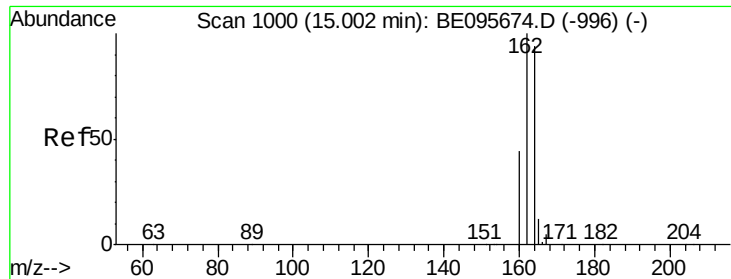
Tot Ion:152 Resp: 3412
 Ion Ratio Lower Upper
 152 100
 151 20.9 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.591 ng
 RT: 12.87 min Scan# 1088
 Delta R.T. -0.00 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

Tgt Ion:142 Resp: 6325
 Ion Ratio Lower Upper
 142 100
 141 92.0 70.4 105.6
 115 50.4 31.7 47.5#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

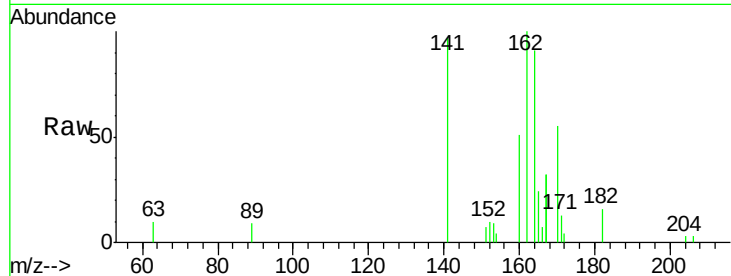
Tot Ion:164 Resp: 4167

Ion Ratio Lower Upper

164 100

162 110.4 83.1 124.7

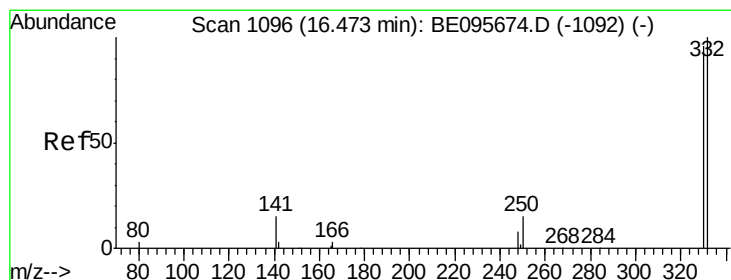
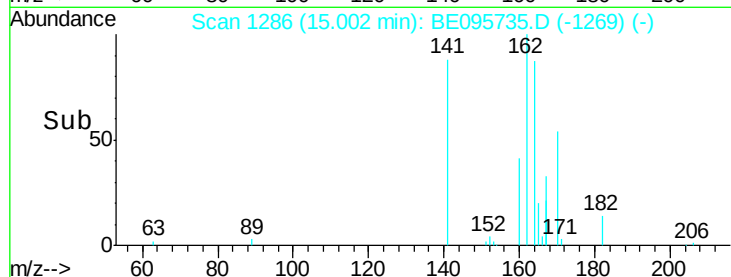
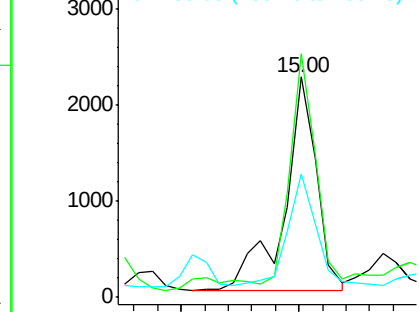
160 56.1 37.1 55.7#



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: 0.397 ng

RT: 16.47 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

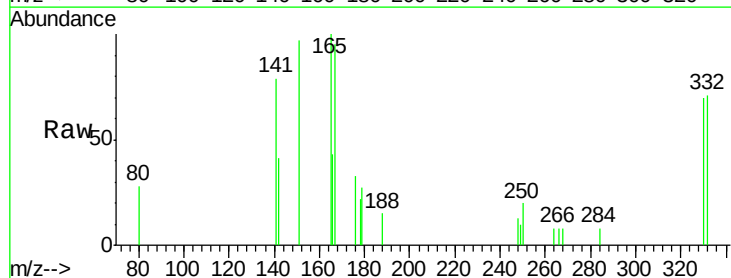
Tgt Ion:330 Resp: 562

Ion Ratio Lower Upper

330 100

332 102.5 152.7 229.1#

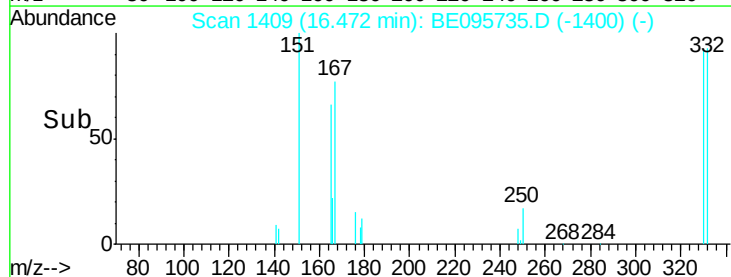
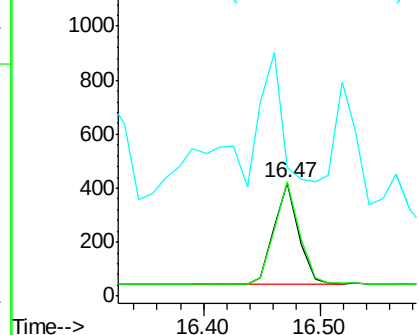
141 121.2 33.7 50.5#

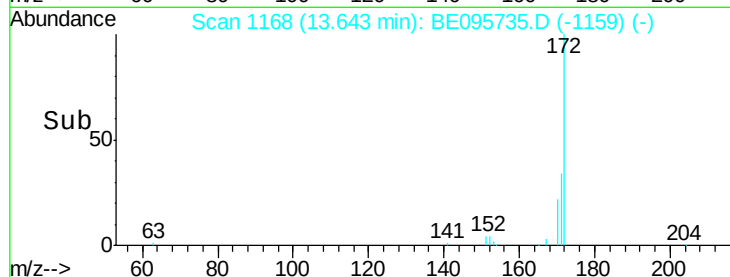
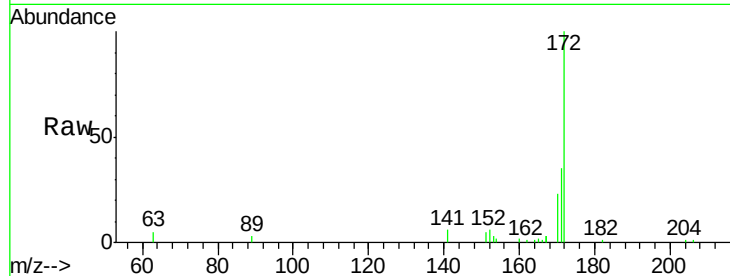
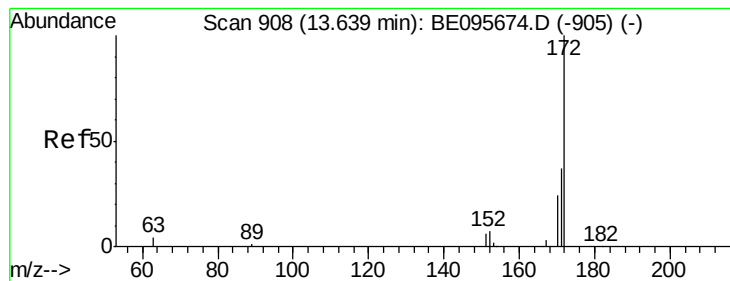


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.380 ng

RT: 13.64 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

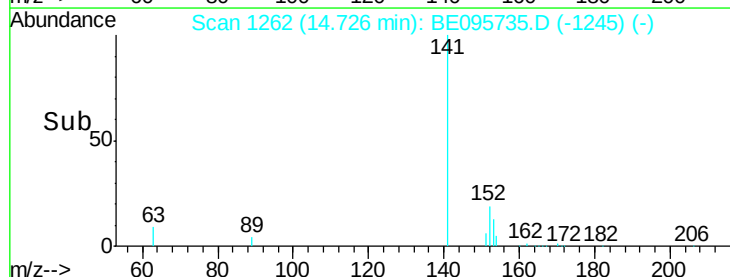
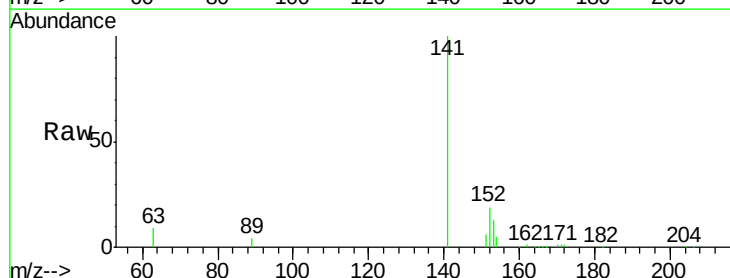
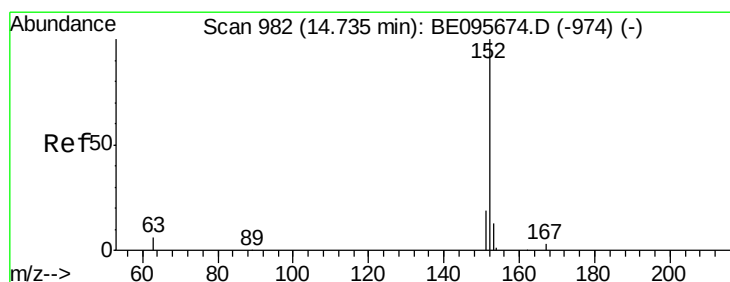
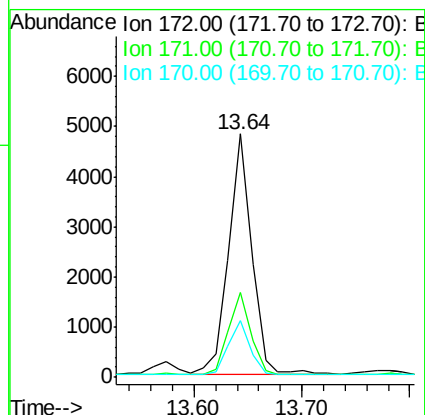
Tot Ion:172 Resp: 7083

Ion Ratio Lower Upper

172 100

171 34.9 29.9 44.9

170 23.1 21.8 32.8



#16

Acenaphthylene

Concen: 0.762 ng

RT: 14.73 min Scan# 1262

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

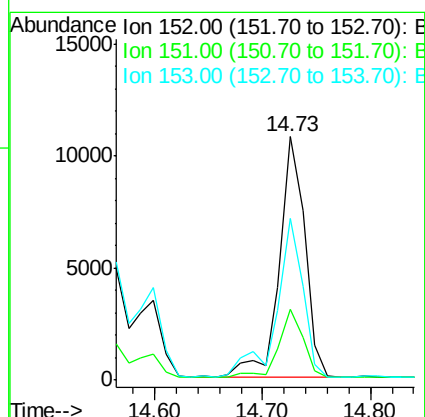
Tgt Ion:152 Resp: 17837

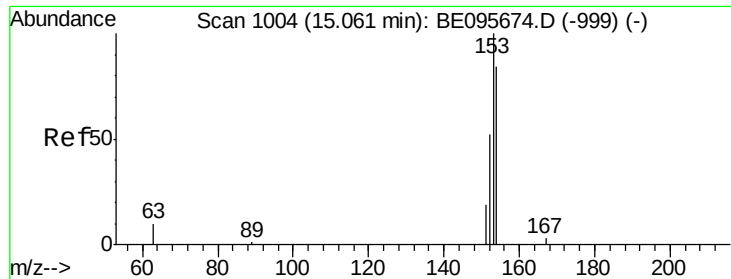
Ion Ratio Lower Upper

152 100

151 27.6 15.7 23.5#

153 67.6 10.5 15.7#

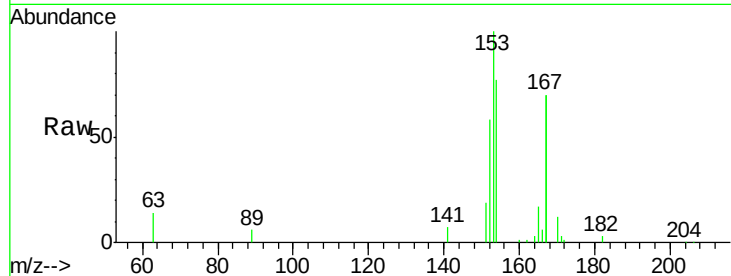




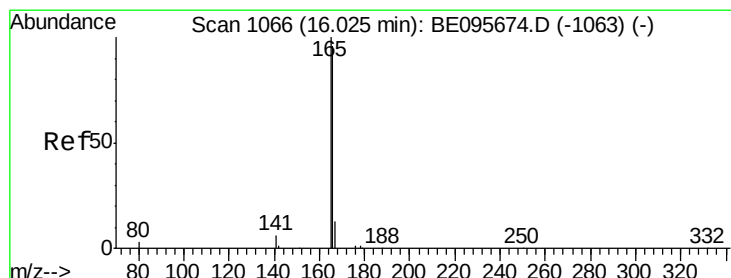
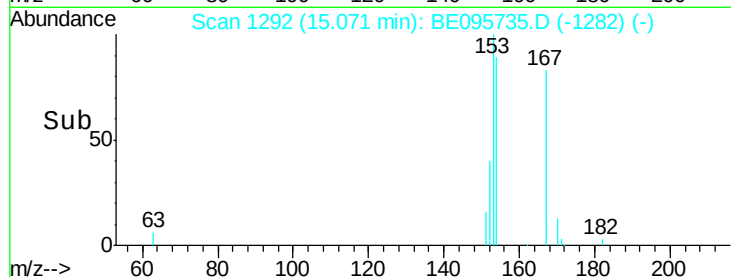
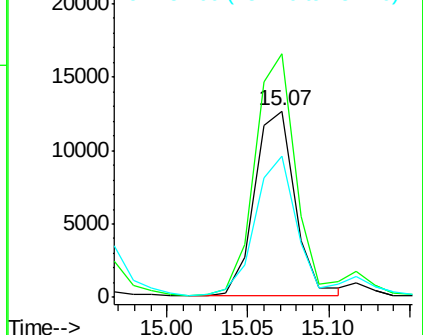
#17
Acenaphthene
Concen: 1.502 ng
RT: 15.07 min Scan# 1292
Delta R.T. 0.01 min
Lab File: BE095735.D
Acq: 12 Mar 2018 18:06

Instrument :
BNA_E
ClientSampleId :
C19013071MSD

Tot Ion:154 Resp: 22078
Ion Ratio Lower Upper
154 100
153 131.3 89.2 133.8
152 77.9 42.0 63.0#

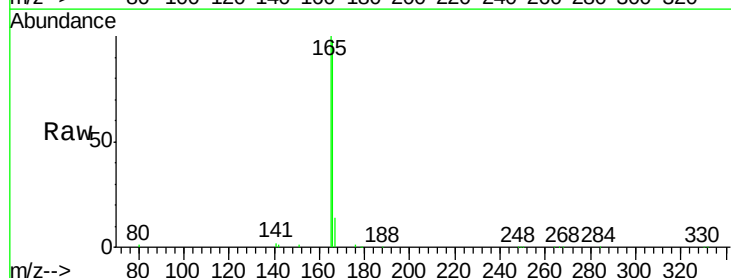


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

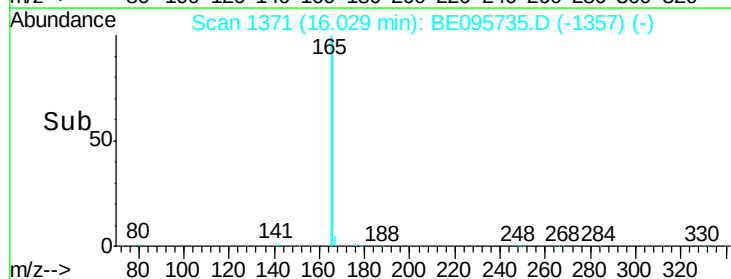
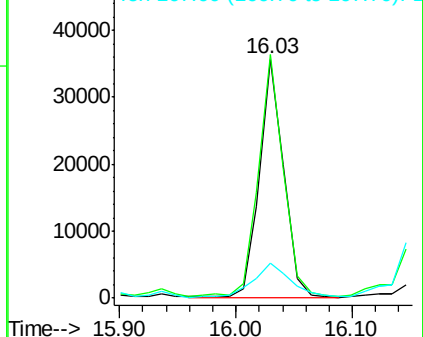


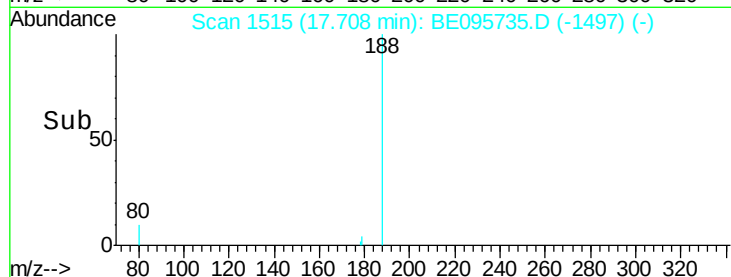
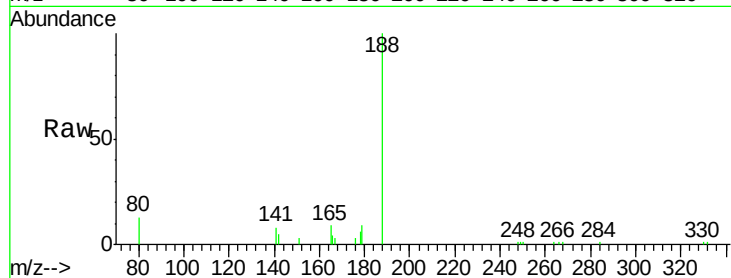
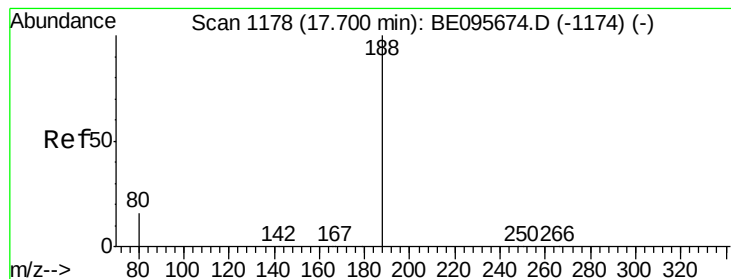
#18
Fluorene
Concen: 2.822 ng
RT: 16.03 min Scan# 1371
Delta R.T. 0.00 min
Lab File: BE095735.D
Acq: 12 Mar 2018 18:06

Tgt Ion:166 Resp: 51444
Ion Ratio Lower Upper
166 100
165 105.0 77.8 116.6
167 21.1 42.4 63.6#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

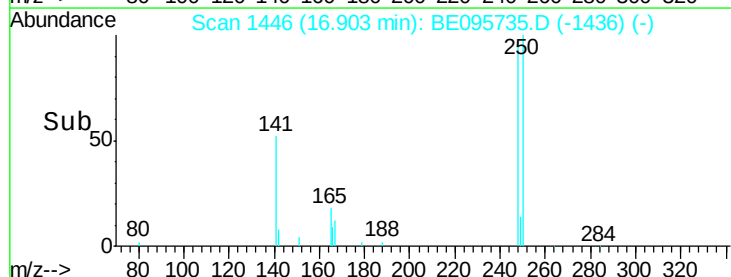
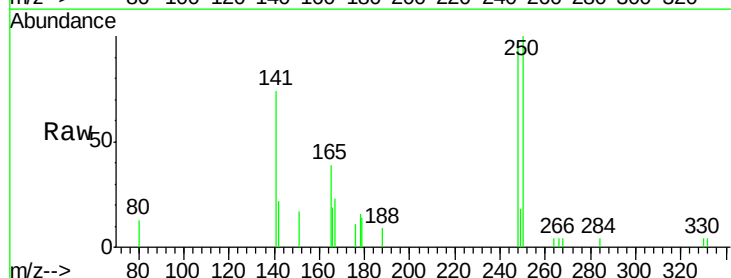
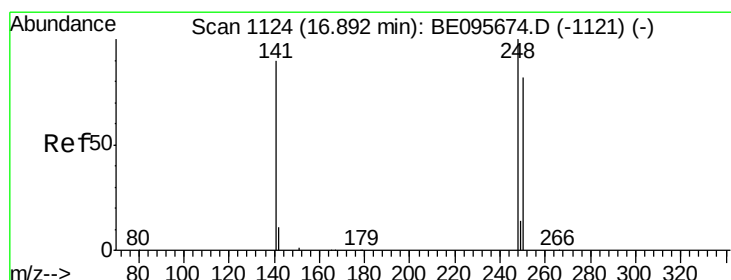
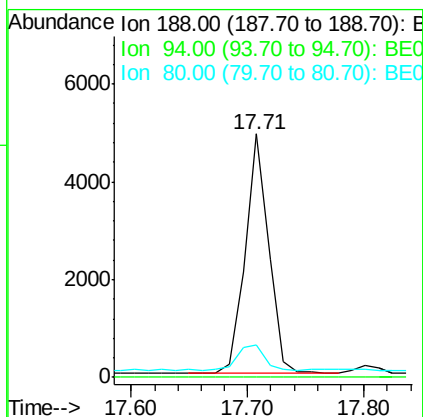
Tot Ion:188 Resp: 6853

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 13.2 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.419 ng

RT: 16.90 min Scan# 1446

Delta R.T. 0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

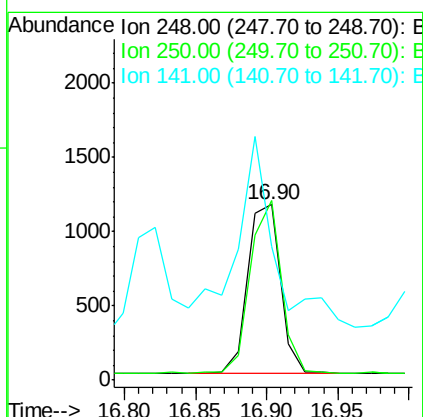
Tgt Ion:248 Resp: 1803

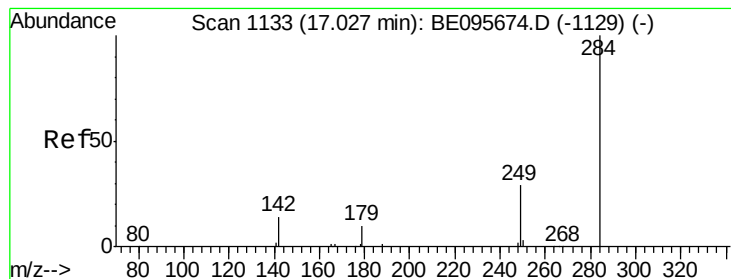
Ion Ratio Lower Upper

248 100

250 102.6 62.7 94.1#

141 76.3 48.2 72.2#





#21

Hexachlorobenzene

Concen: 0.381 ng

RT: 17.02 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

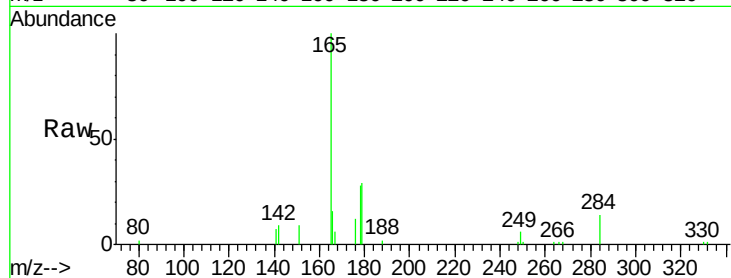
Tot Ion:284 Resp: 1697

Ion Ratio Lower Upper

284 100

142 54.4 22.1 33.1#

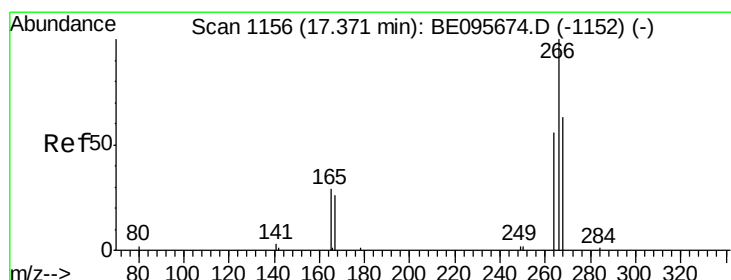
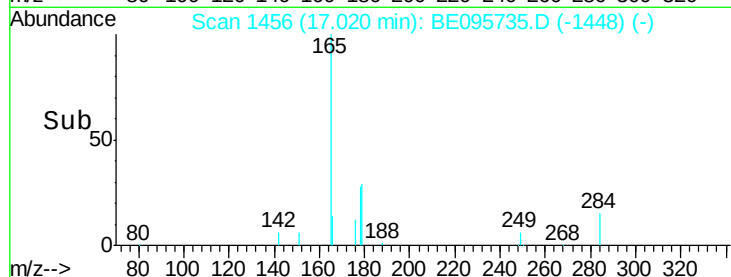
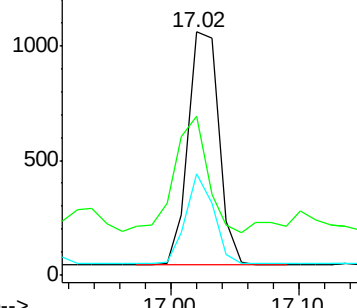
249 35.0 34.8 52.2



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: 1.176 ng

RT: 17.36 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

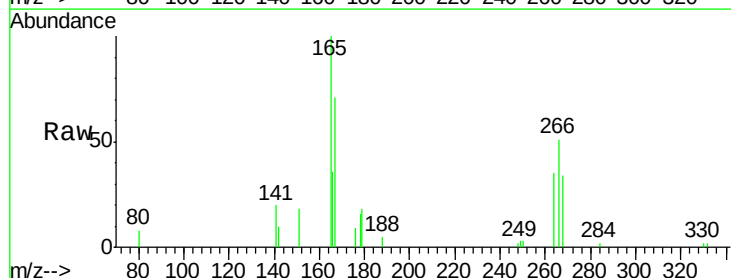
Tgt Ion:266 Resp: 1631

Ion Ratio Lower Upper

266 100

264 69.2 72.5 108.7#

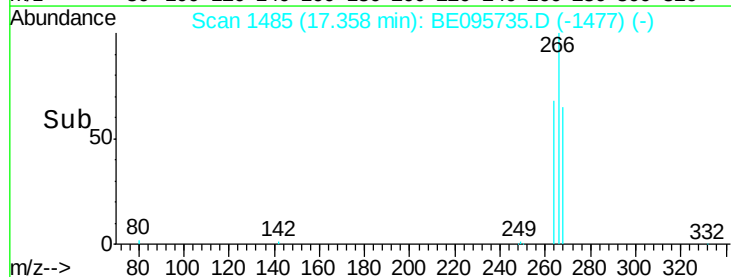
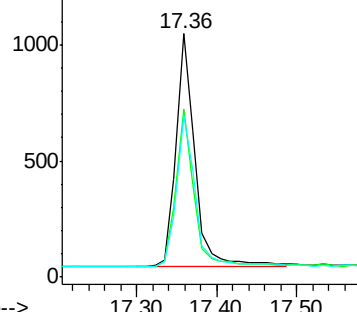
268 66.2 73.8 110.6#

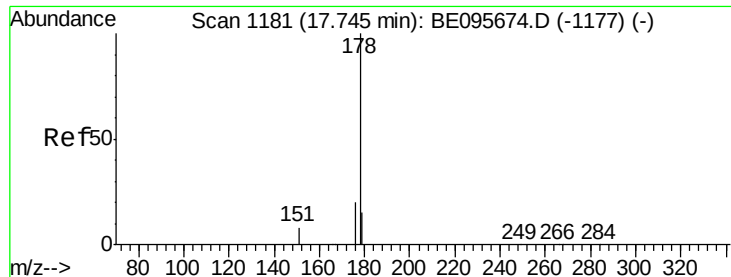


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 2.428 ng

RT: 17.75 min Scan# 1519

Delta R.T. 0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

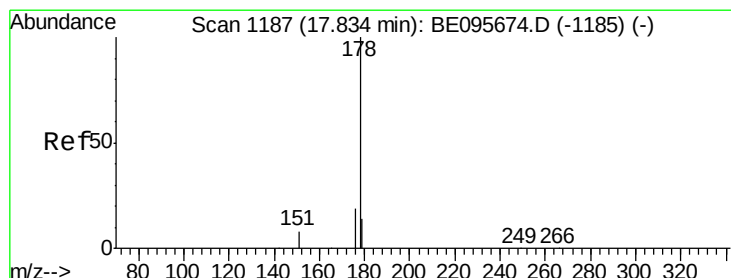
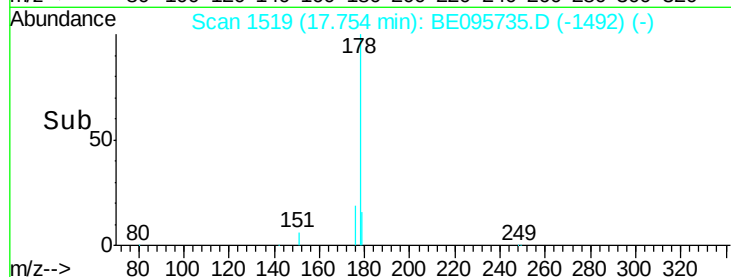
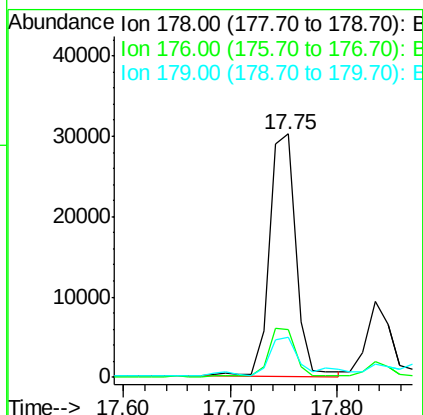
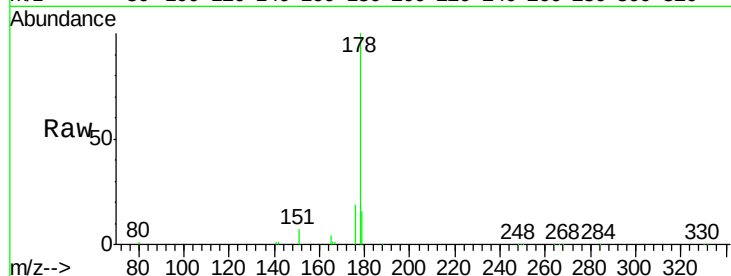
Tot Ion:178 Resp: 52011

Ion Ratio Lower Upper

178 100

176 19.8 15.1 22.7

179 18.6 11.8 17.6#



#24

Anthracene

Concen: 0.660 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

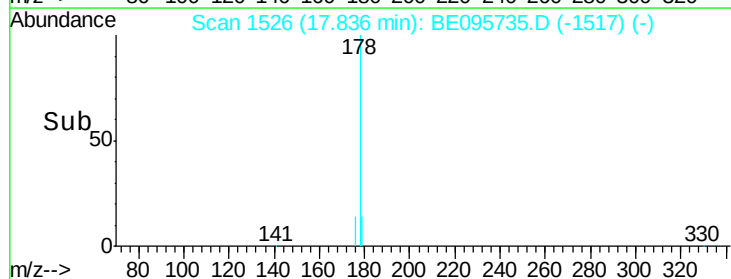
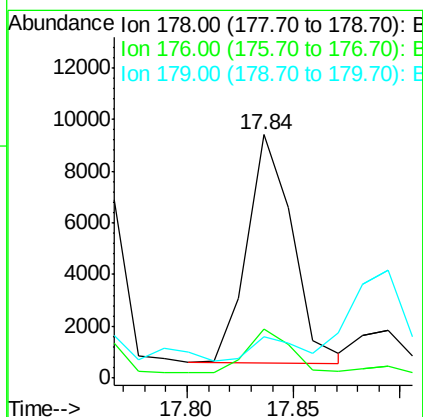
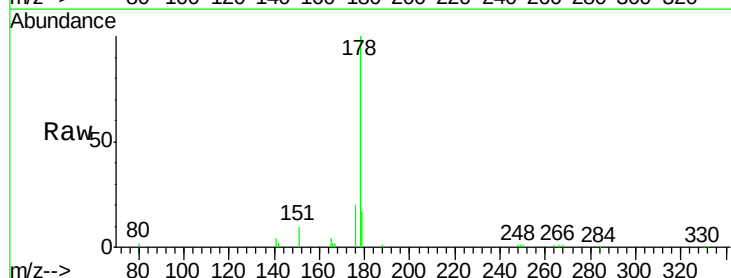
Tgt Ion:178 Resp: 12982

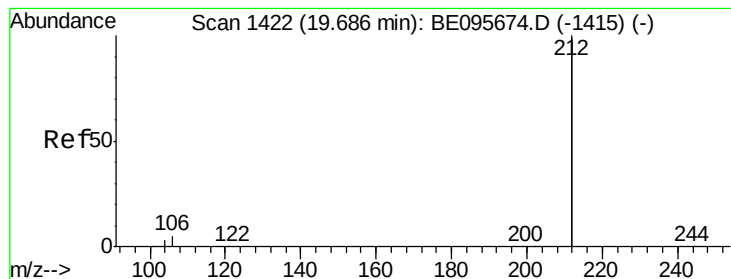
Ion Ratio Lower Upper

178 100

176 18.8 12.8 19.2

179 0.0 13.0 19.6#





#25

Fluoranthene-d10

Concen: 0.384 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

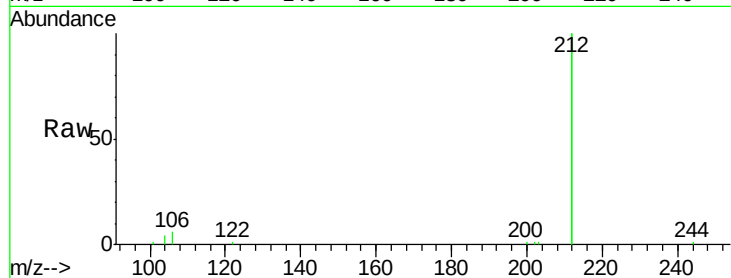
Tot Ion:212 Resp: 34379

Ion Ratio Lower Upper

212 100

106 2.9 2.8 4.2

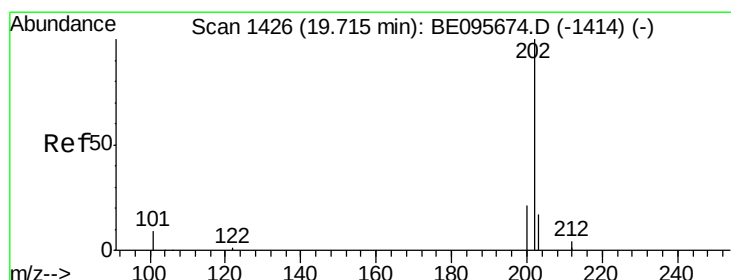
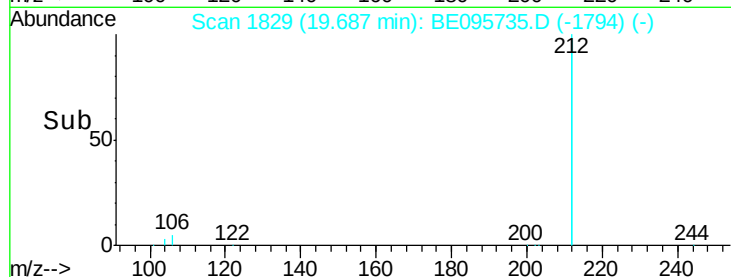
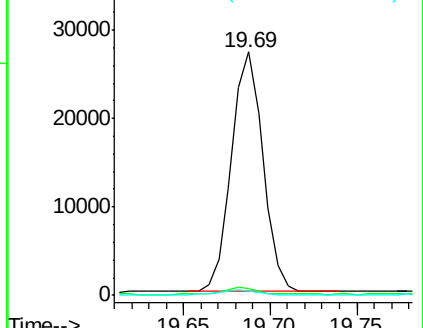
104 2.1 1.6 2.4



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: 0.428 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

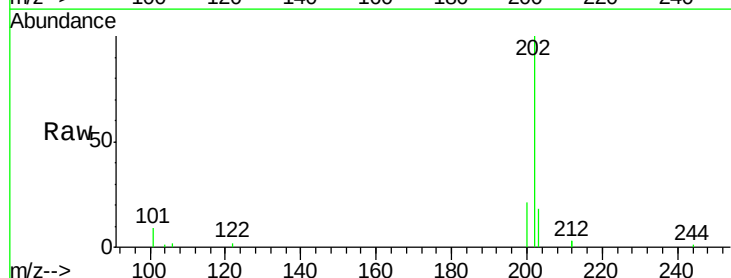
Tgt Ion:202 Resp: 11275

Ion Ratio Lower Upper

202 100

101 9.9 9.8 14.8

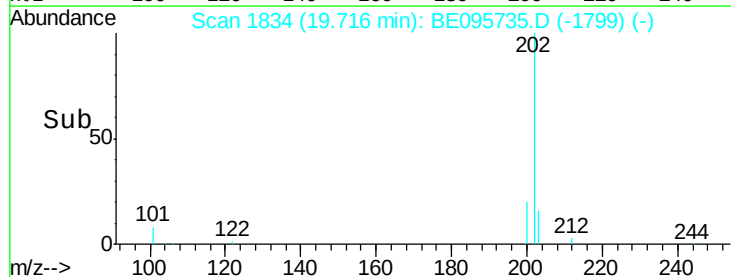
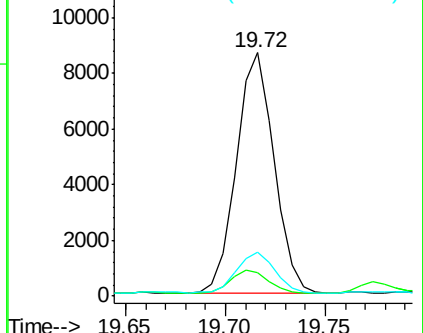
203 16.9 13.7 20.5

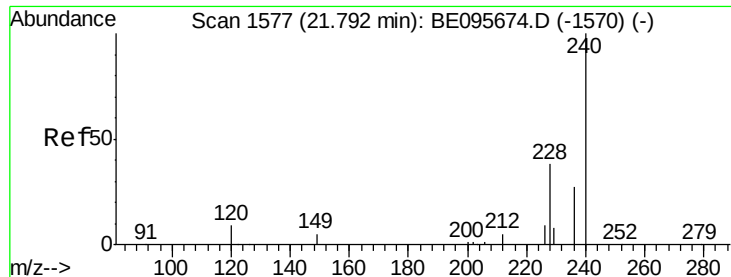


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.80 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

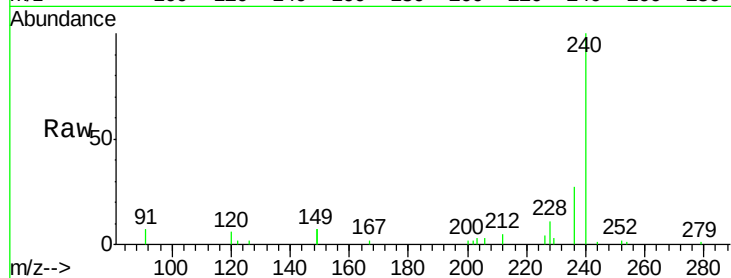
Tot Ion:240 Resp: 7143

Ion Ratio Lower Upper

240 100

120 6.4 5.5 8.3

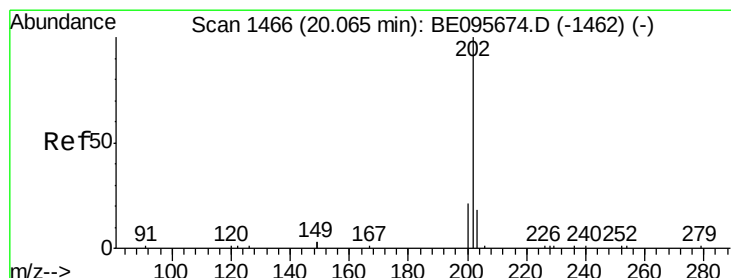
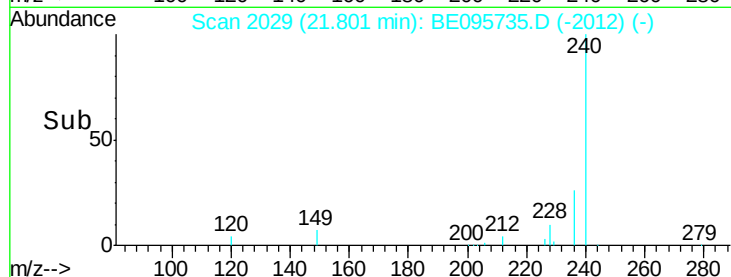
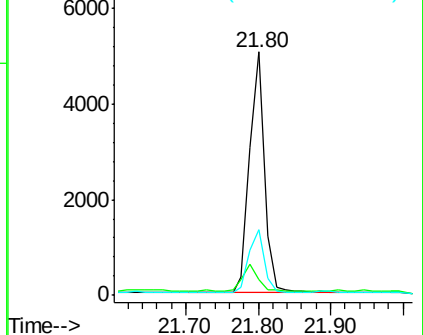
236 27.1 20.7 31.1



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: 0.508 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

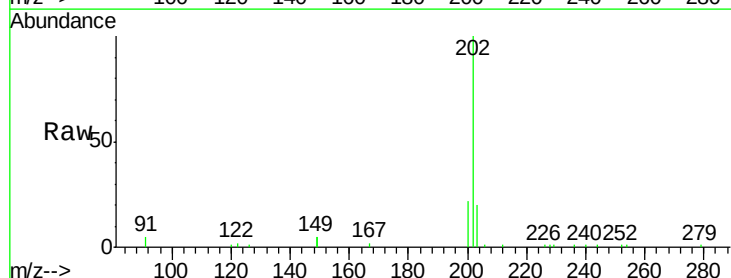
Tgt Ion:202 Resp: 14827

Ion Ratio Lower Upper

202 100

200 21.5 16.6 25.0

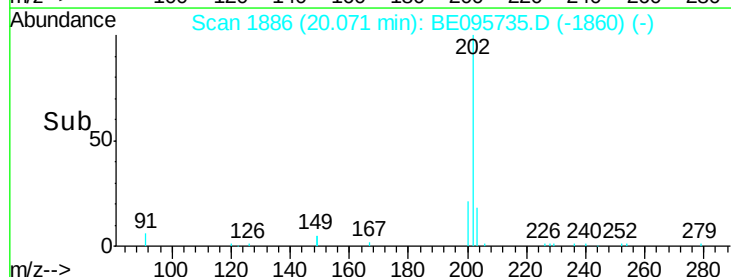
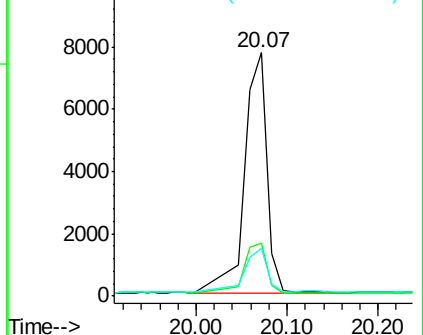
203 20.3 13.8 20.8

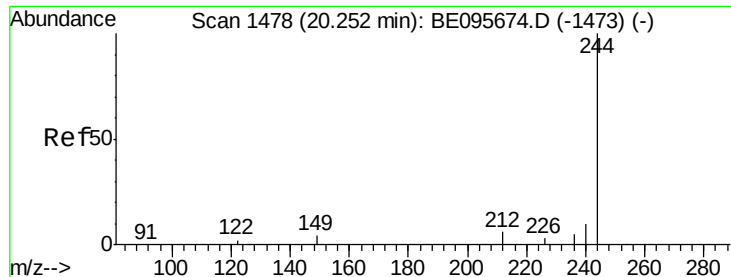


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.555 ng

RT: 20.25 min Scan# 1901

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

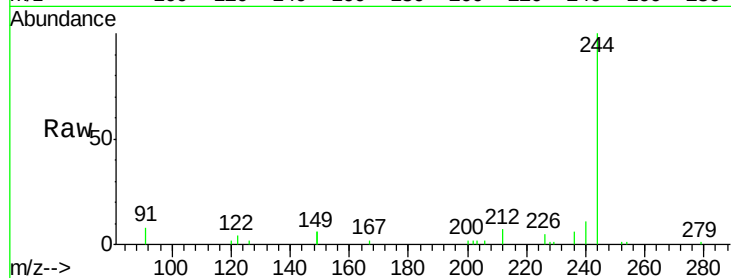
Tot Ion:244 Resp: 7897

Ion Ratio Lower Upper

244 100

212 6.8 25.4 38.0#

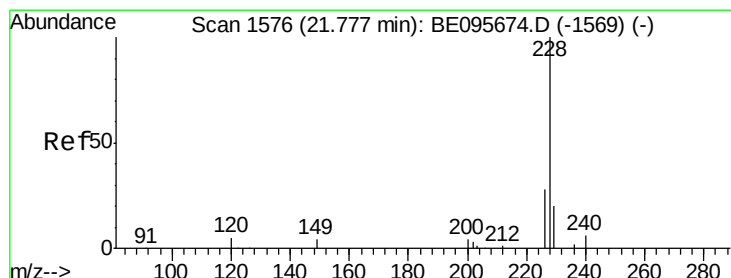
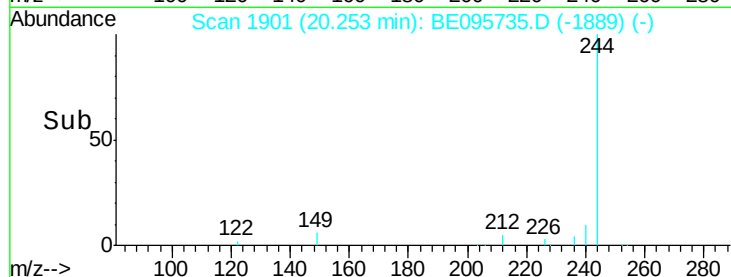
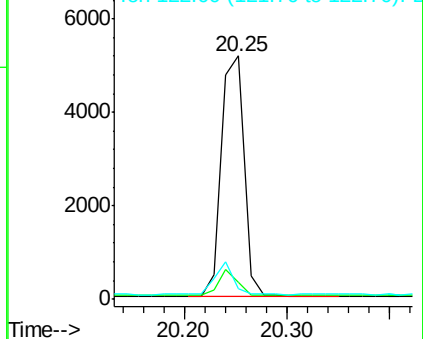
122 4.4 8.1 12.1#



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: 0.447 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

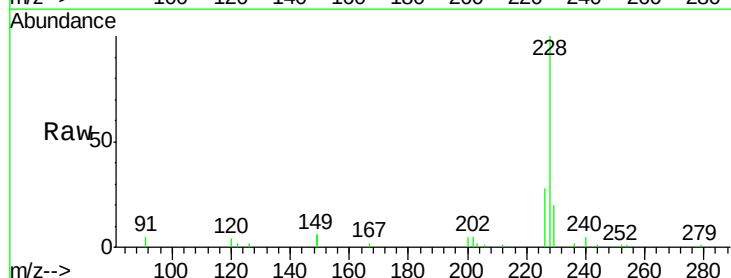
Tgt Ion:228 Resp: 10407

Ion Ratio Lower Upper

228 100

226 28.3 24.0 36.0

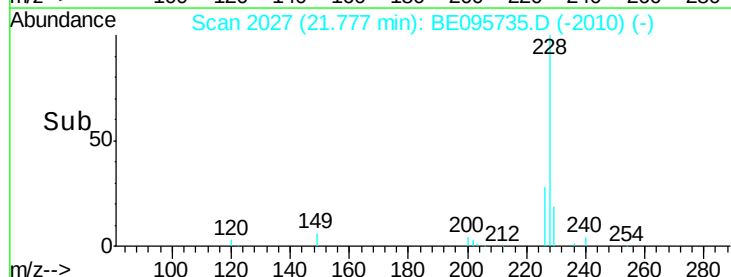
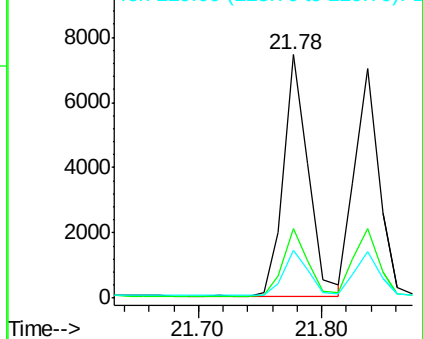
229 19.8 16.0 24.0

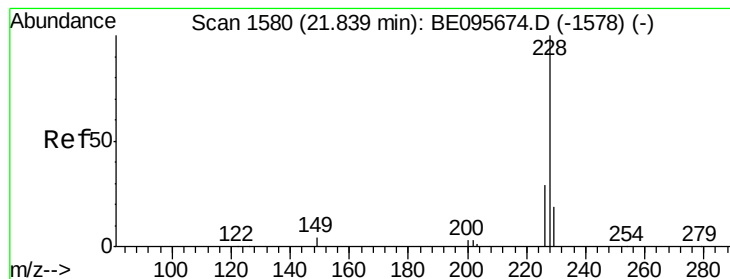


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.417 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

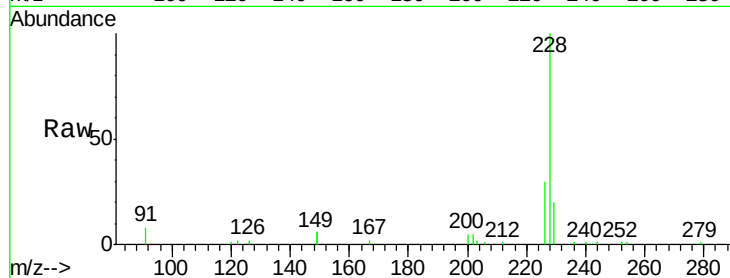
BNA_E

ClientSampleId :

C19013071MSD

Tot Ion:228 Resp: 9660

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	20.2	16.0	24.0

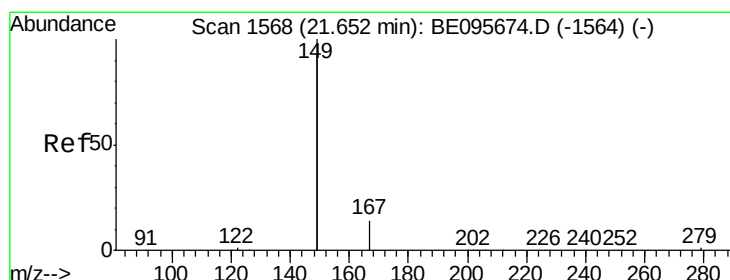
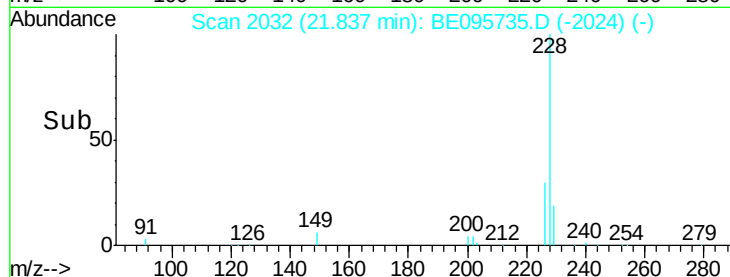
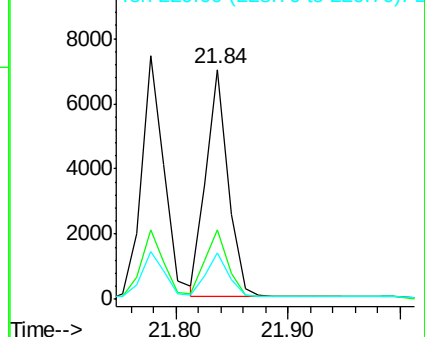


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.935 ng

RT: 21.66 min Scan# 2017

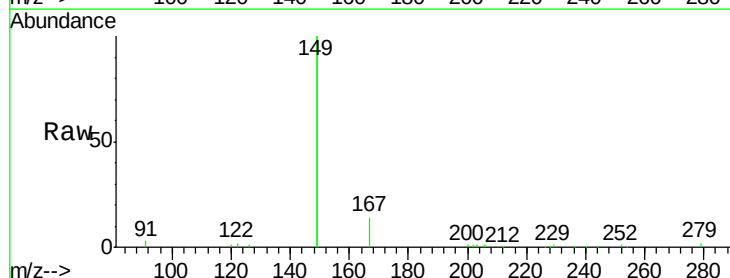
Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Tgt Ion:149 Resp: 38530

Ion	Ratio	Lower	Upper
149	100		
167	7.3	5.4	8.0
279	0.9	0.7	1.1

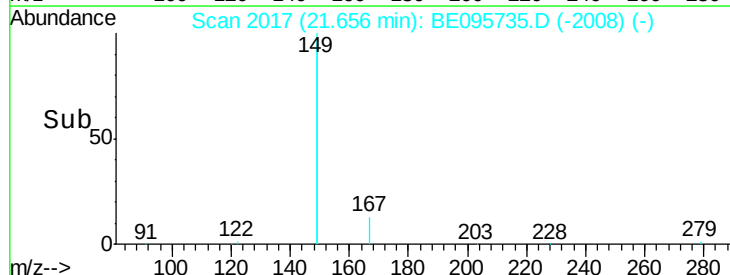
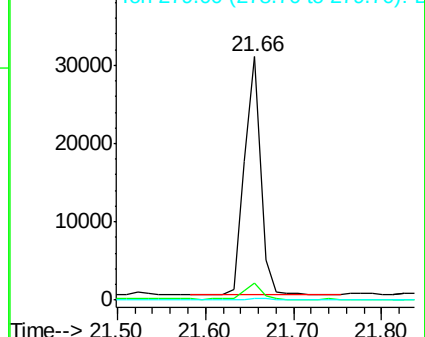


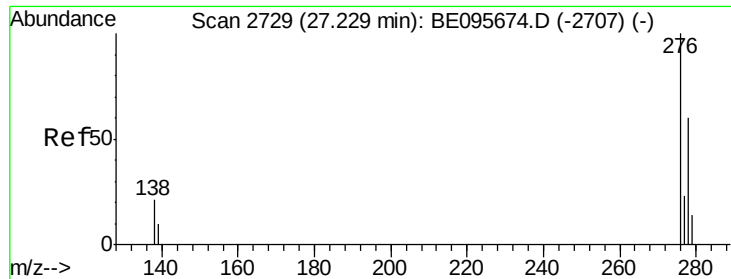
Abundance

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

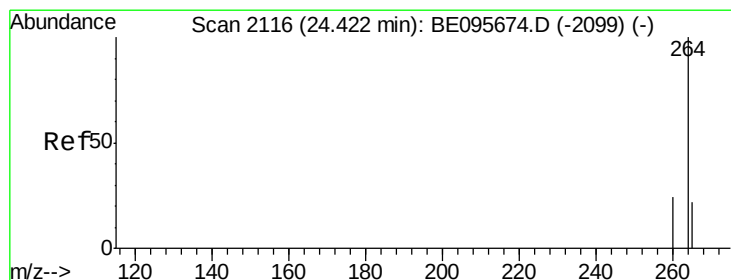
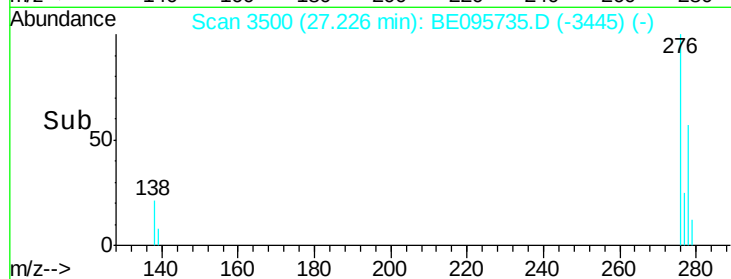
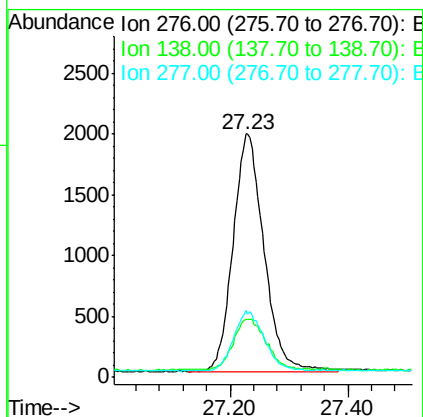
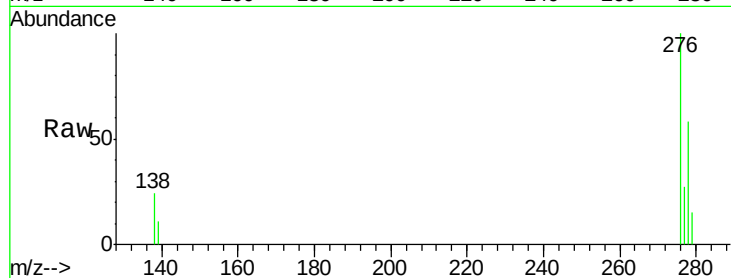




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.316 ng
 RT: 27.23 min Scan# 3500
 Delta R.T. -0.00 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

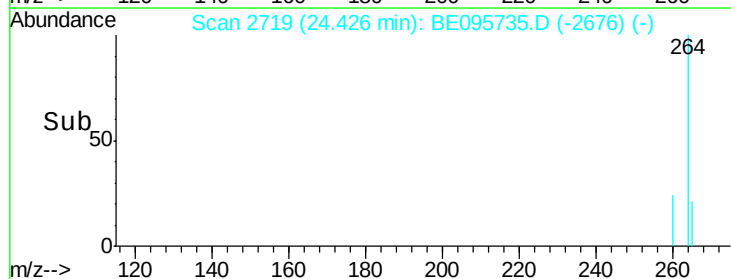
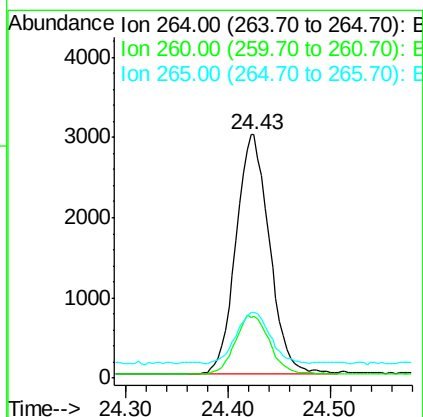
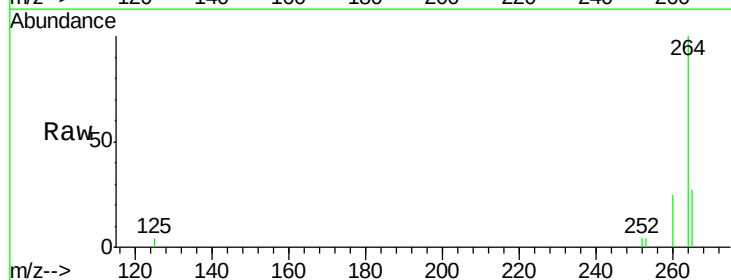
Instrument :
 BNA_E
 ClientSampleId :
 C19013071MSD

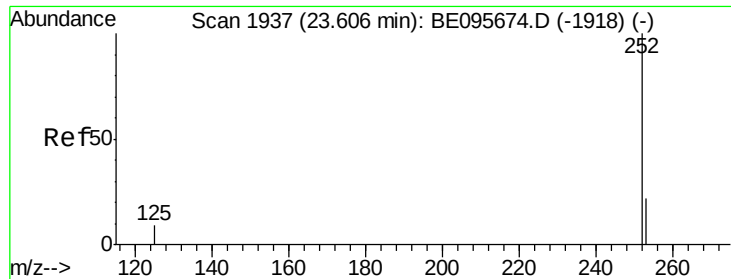
Tot Ion:276 Resp: 7105
 Ion Ratio Lower Upper
 276 100
 138 22.4 22.5 33.7#
 277 24.9 19.9 29.9



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.43 min Scan# 2719
 Delta R.T. 0.00 min
 Lab File: BE095735.D
 Acq: 12 Mar 2018 18:06

Tgt Ion:264 Resp: 6818
 Ion Ratio Lower Upper
 264 100
 260 25.4 20.5 30.7
 265 27.0 22.8 34.2

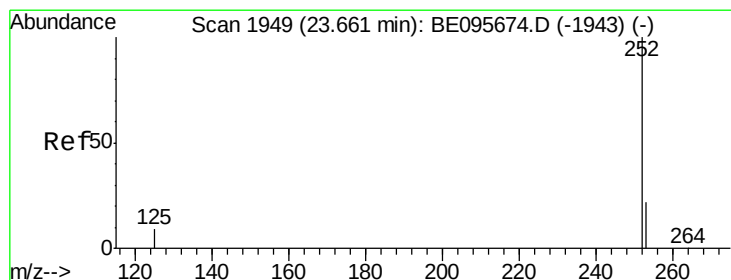
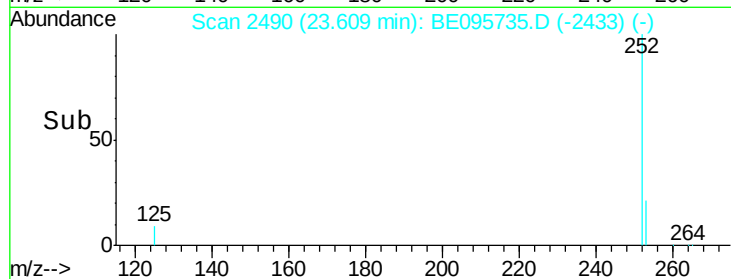
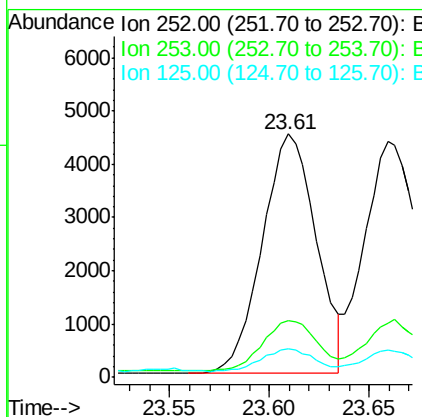
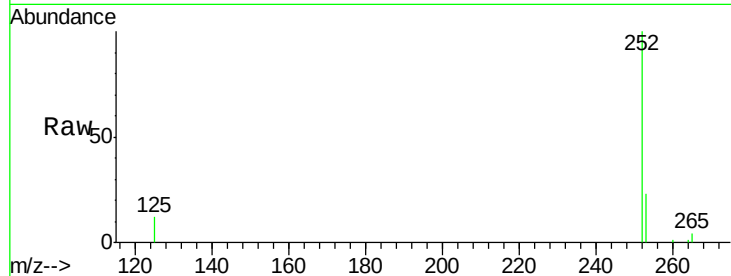




#35
Benzo(b)fluoranthene
Concen: 0.347 ng
RT: 23.61 min Scan# 2490
Delta R.T. 0.00 min
Lab File: BE095735.D
Acq: 12 Mar 2018 18:06

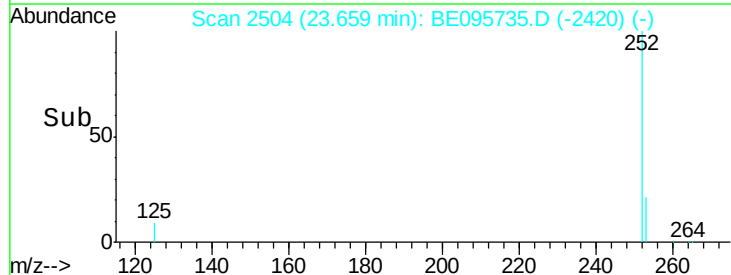
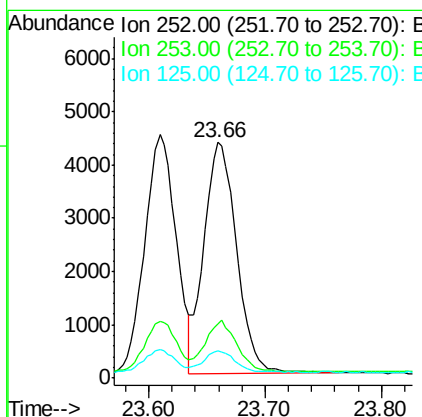
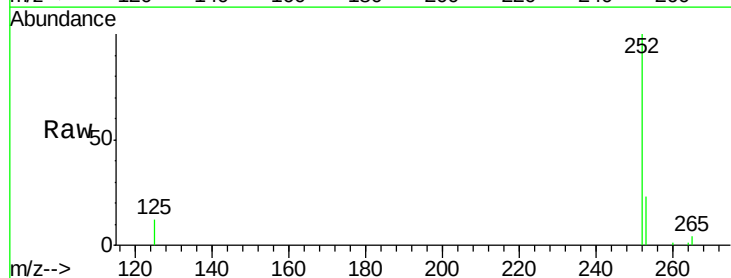
Instrument :
BNA_E
ClientSampleId :
C19013071MSD

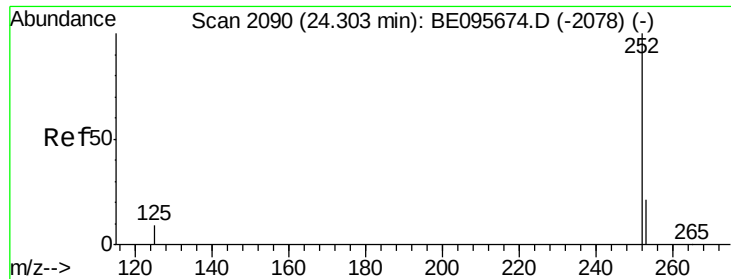
Tot Ion:252 Resp: 8427
Ion Ratio Lower Upper
252 100
253 23.1 20.0 30.0
125 11.6 16.0 24.0#



#36
Benzo(k)fluoranthene
Concen: 0.350 ng
RT: 23.66 min Scan# 2504
Delta R.T. -0.00 min
Lab File: BE095735.D
Acq: 12 Mar 2018 18:06

Tgt Ion:252 Resp: 8456
Ion Ratio Lower Upper
252 100
253 23.1 16.0 24.0
125 11.5 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.361 ng

RT: 24.31 min Scan# 2686

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

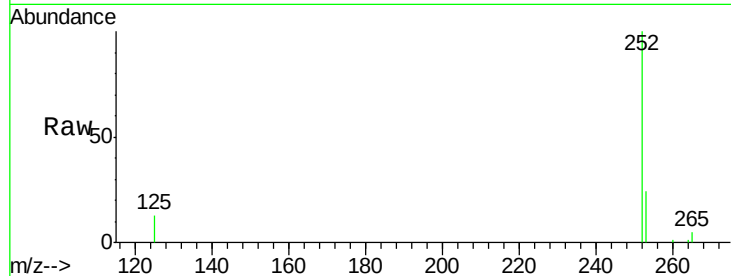
Tot Ion:252 Resp: 7912

Ion Ratio Lower Upper

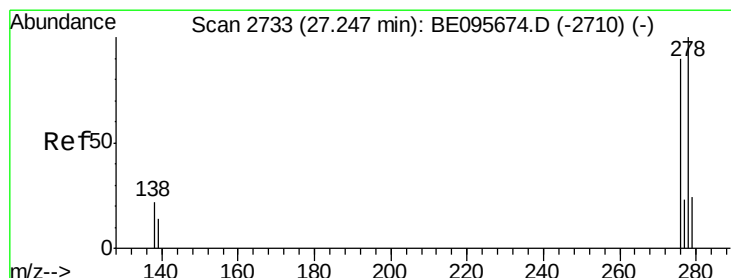
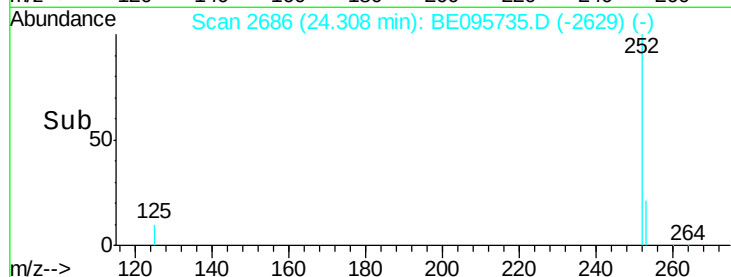
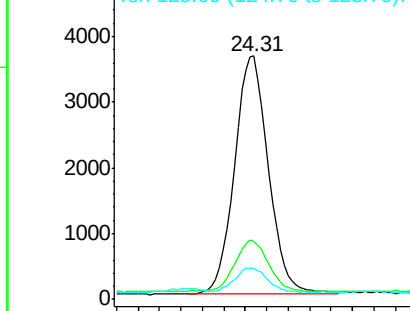
252 100

253 23.8 16.0 24.0

125 12.6 12.0 18.0



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: 0.305 ng

RT: 27.25 min Scan# 3507

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

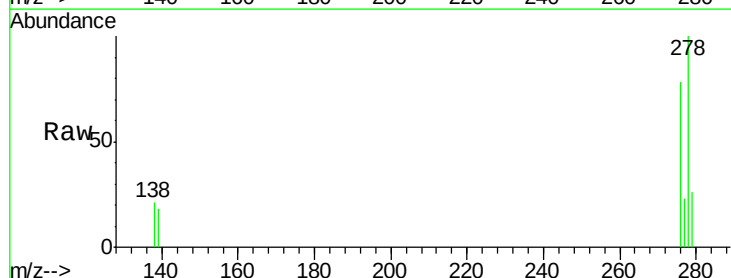
Tgt Ion:278 Resp: 5948

Ion Ratio Lower Upper

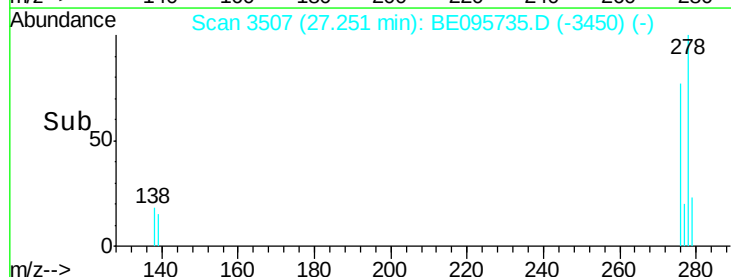
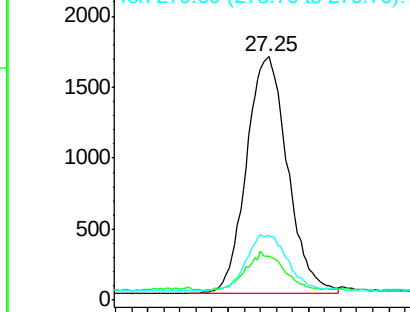
278 100

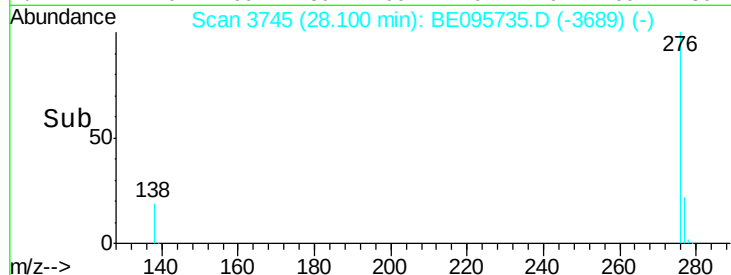
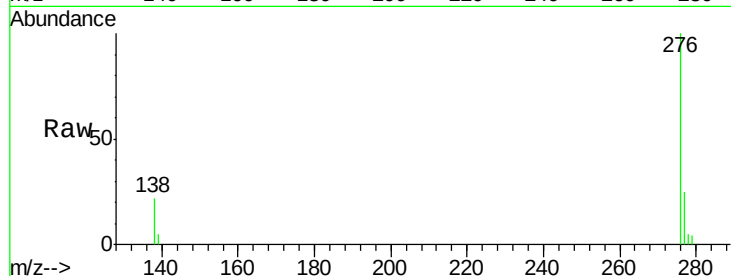
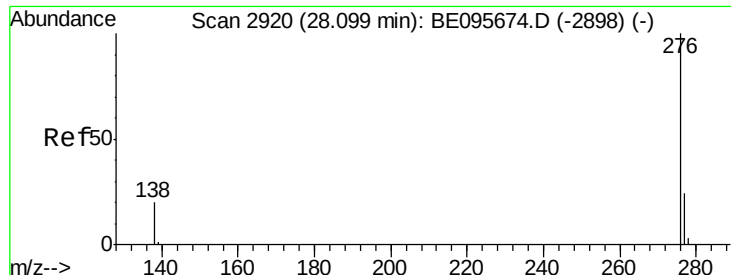
139 18.3 16.0 24.0

279 26.4 20.0 30.0



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: 0.297 ng

RT: 28.10 min Scan# 3745

Delta R.T. 0.00 min

Lab File: BE095735.D

Acq: 12 Mar 2018 18:06

Instrument :

BNA_E

ClientSampleId :

C19013071MSD

Tot Ion:276 Resp: 6195

Ion Ratio Lower Upper

276 100

277 24.8 16.0 24.0#

138 22.4 20.0 30.0

