

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121118\
 Data File : BE098357.D
 Acq On : 12 Dec 2018 6:38
 Operator : SJ/JU
 Sample : J6314-24
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 12 17:27:11 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	1073	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	4836	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	3184	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	8319	0.40	ng	0.00
27) Chrysene-d12	21.46	240	9633	0.40	ng	0.00
34) Perylene-d12	24.01	264	9360	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	467	0.19	ng	0.00
5) Phenol-d6	7.06	99	325	0.09	ng	0.00
8) Nitrobenzene-d5	9.03	82	1702	0.39	ng	0.01
11) 2-Methylnaphthalene-d10	12.27	152	3230	0.41	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	186	0.16	ng	0.01
15) 2-Fluorobiphenyl	13.15	172	6301	0.47	ng	0.00
25) Fluoranthene-d10	19.31	212	47439	0.44	ng	0.00
29) Terphenyl-d14	19.90	244	14222	0.61	ng	0.00

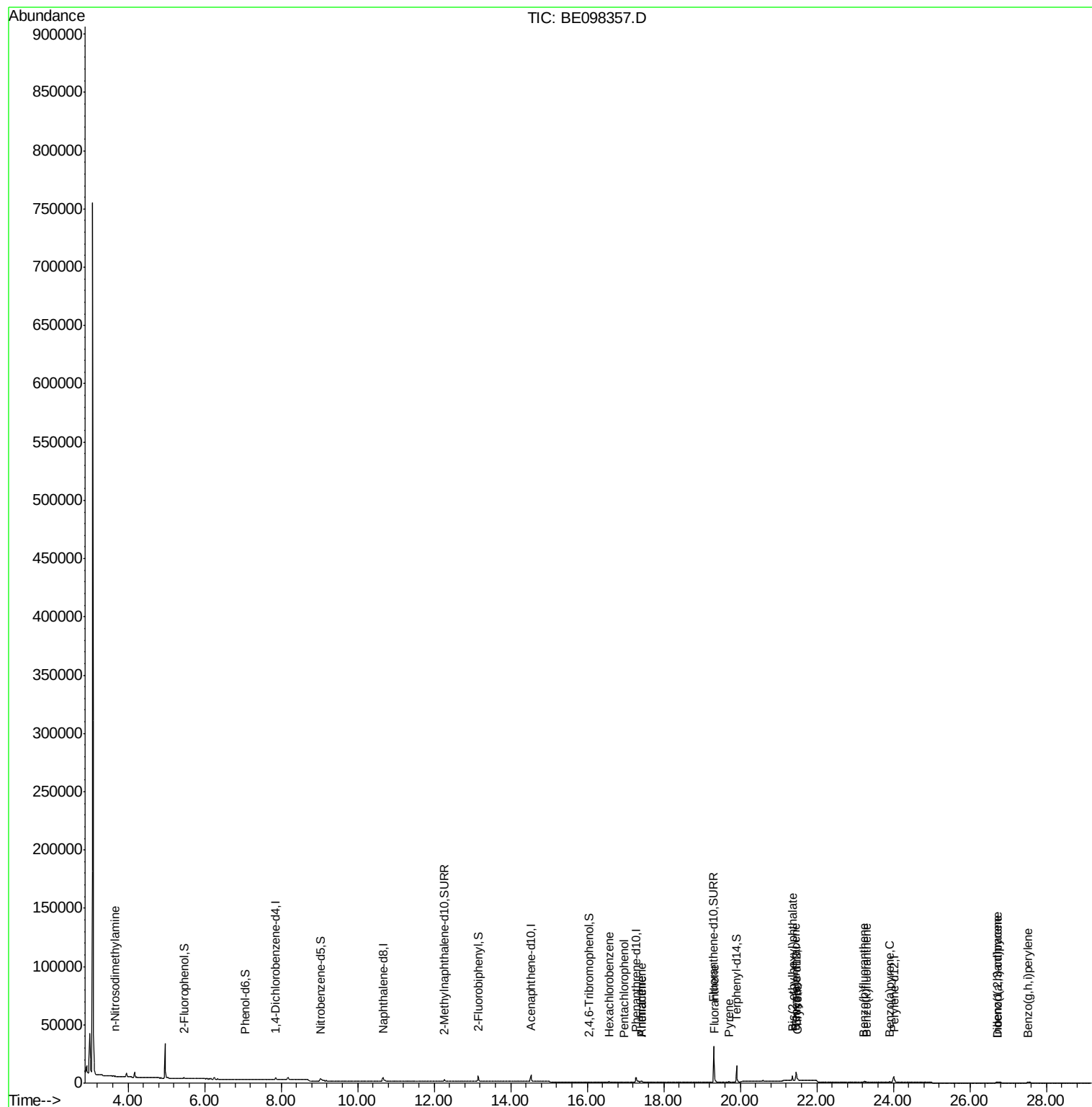
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.66	42	45	0.027	ng	# 100
21) Hexachlorobenzene	16.58	284	104	0.022	ng	# 64
22) Pentachlorophenol	16.95	266	7	0.025	ng	# 74
23) Phenanthrene	17.42	178	414	0.020	ng	# 96
24) Anthracene	17.42	178	368	0.020	ng	# 93
26) Fluoranthene	19.34	202	805	0.030	ng	# 95
28) Pyrene	19.71	202	746	0.025	ng	# 97
30) Benzo(a)anthracene	21.45	228	833	0.030	ng	# 80
31) Chrysene	21.50	228	933	0.032	ng	# 82
32) Bis(2-ethylhexyl)phthalate	21.37	149	5009	0.090	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.71	276	1098	0.038	ng	# 75
35) Benzo(b)fluoranthene	23.23	252	873	0.034	ng	# 46
36) Benzo(k)fluoranthene	23.29	252	888	0.030	ng	# 56
37) Benzo(a)pyrene	23.89	252	887	0.034	ng	# 44
38) Dibenzo(a,h)anthracene	26.73	278	784	0.032	ng	# 50
39) Benzo(g,h,i)perylene	27.52	276	507	0.020	ng	# 70

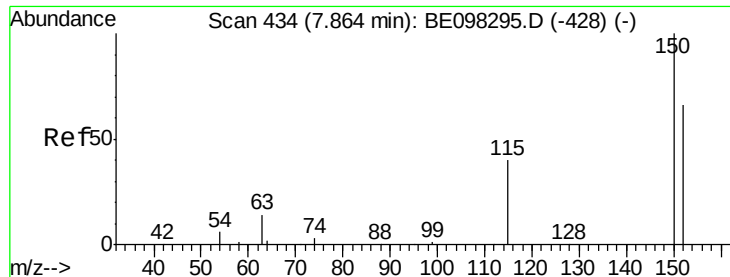
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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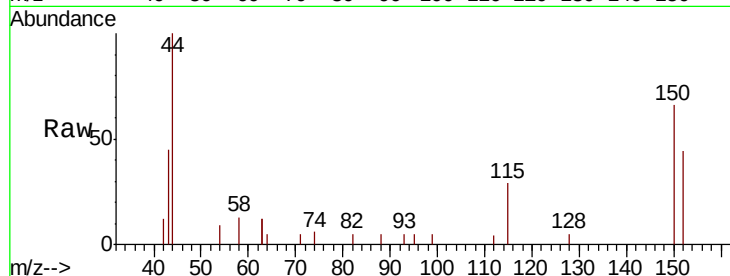


#1

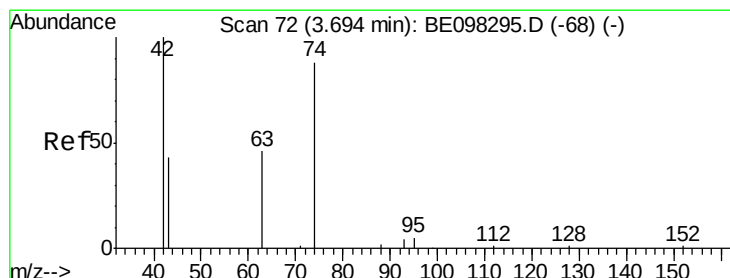
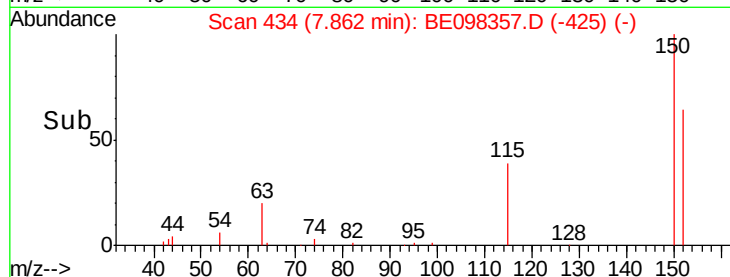
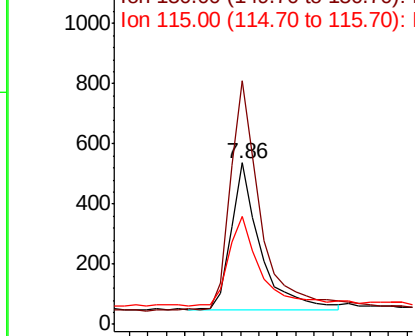
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 1073
Ion Ratio Lower Upper
152 100
150 150.9 124.2 186.4
115 67.4 53.9 80.9



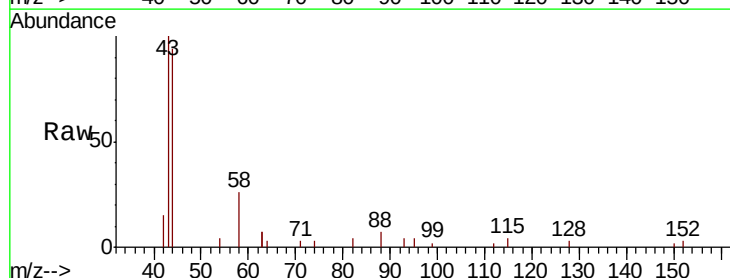
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



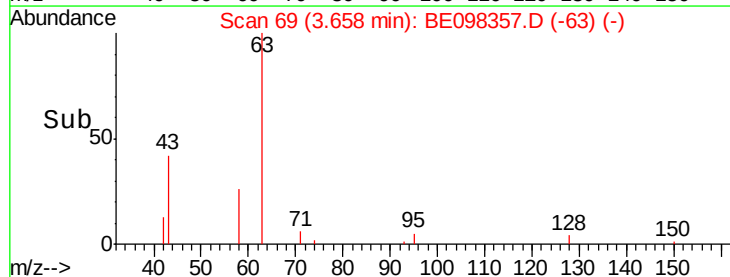
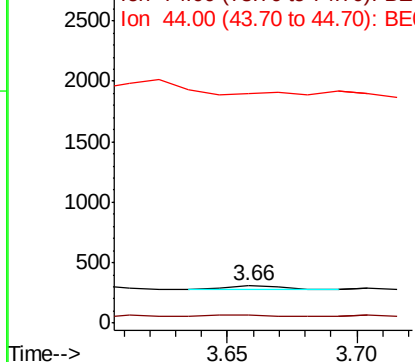
#3

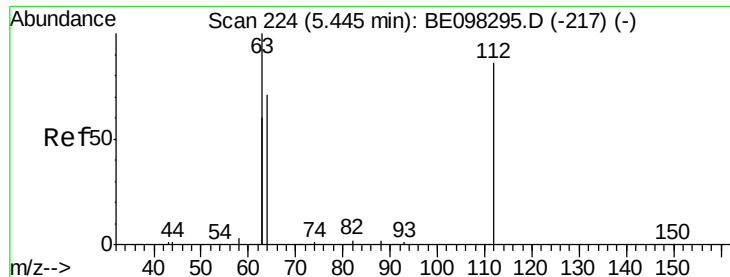
n-Nitrosodimethylamine
Concen: 0.027 ng
RT: 3.66 min Scan# 69
Delta R.T. -0.04 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

Tgt Ion: 42 Resp: 45
Ion Ratio Lower Upper
42 100
74 46.7 0.0 0.0#
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





#4

2-Fluorophenol

Concen: 0.186 ng

RT: 5.45 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

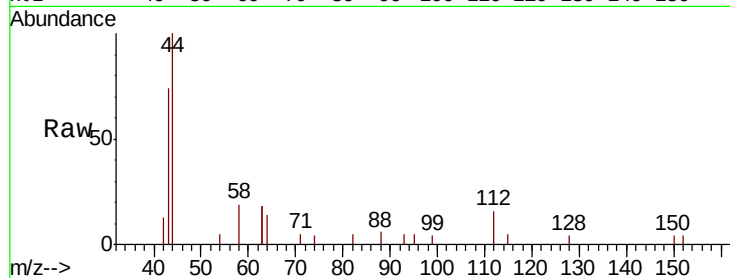
Tot Ion: 112 Resp: 467

Ion Ratio Lower Upper

112 100

64 82.0 59.8 89.8

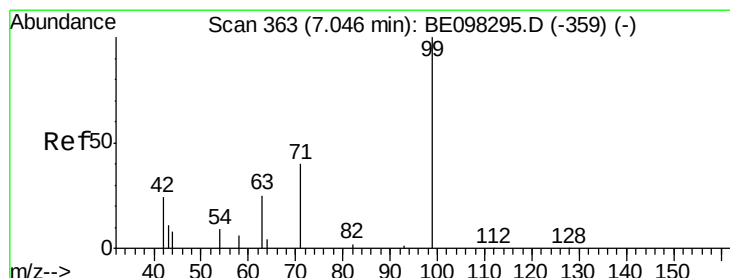
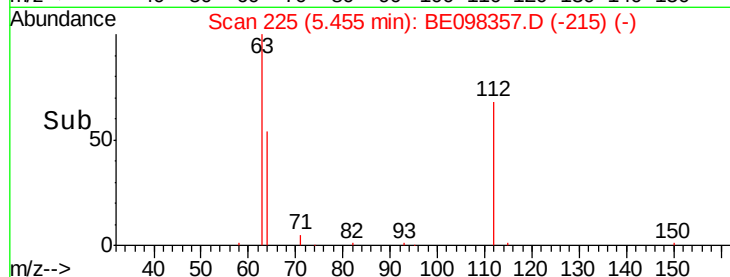
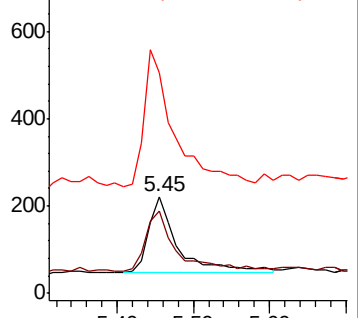
63 187.4 133.7 200.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.091 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

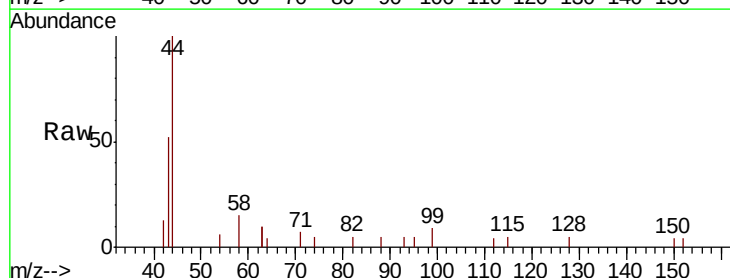
Tgt Ion: 99 Resp: 325

Ion Ratio Lower Upper

99 100

42 16.9 26.3 39.5#

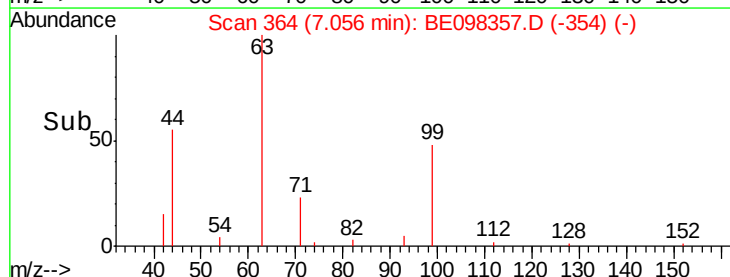
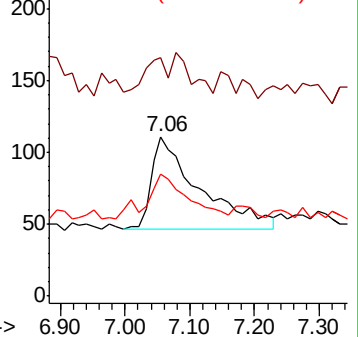
71 34.8 33.6 50.4

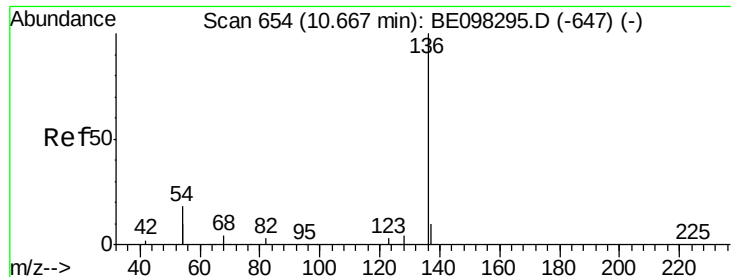


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 4836

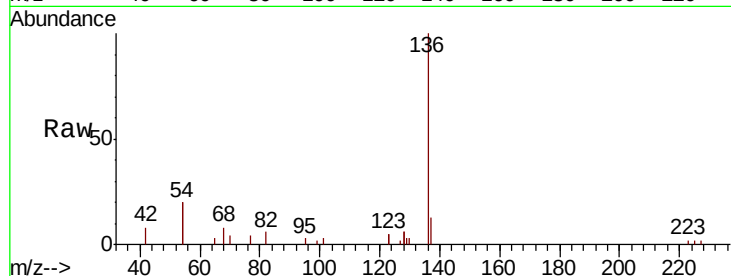
Ion Ratio Lower Upper

136 100

137 13.0 9.2 13.8

54 40.6 28.4 42.6

68 7.7 5.4 8.0

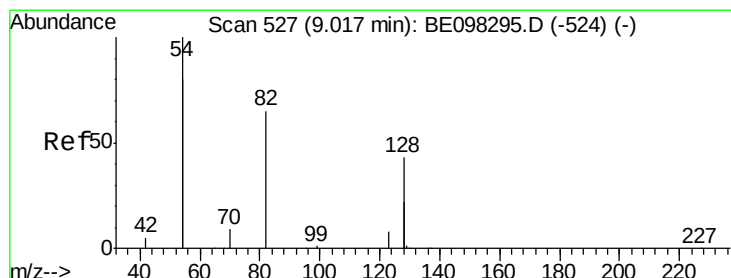
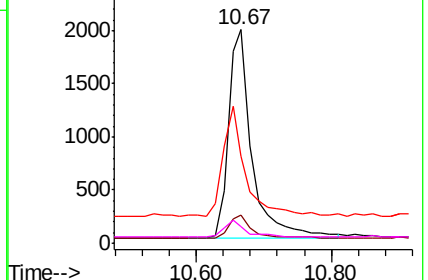
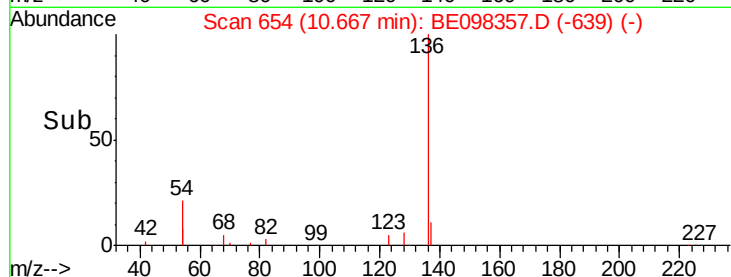


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.387 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

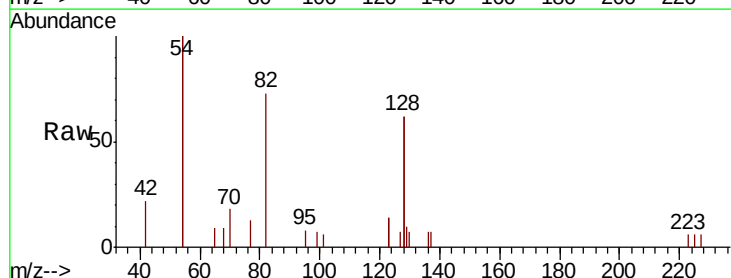
Tgt Ion: 82 Resp: 1702

Ion Ratio Lower Upper

82 100

128 171.3 102.4 153.6#

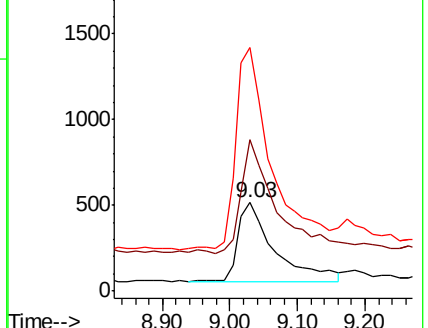
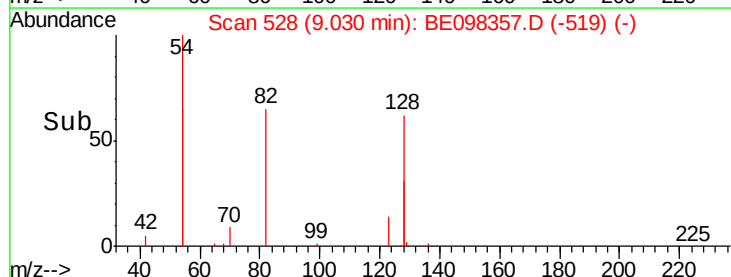
54 275.7 221.8 332.8

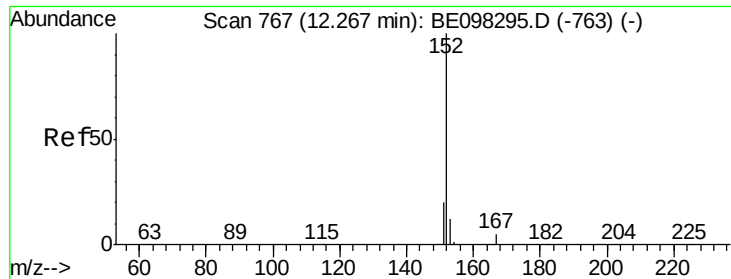


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

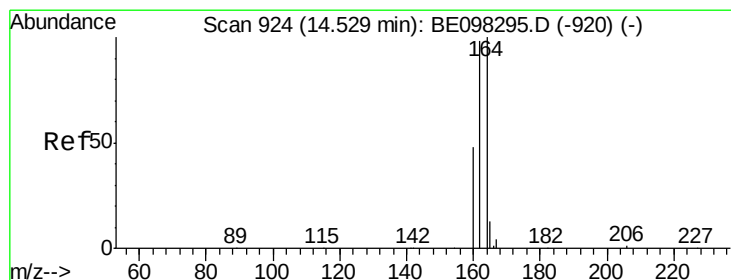
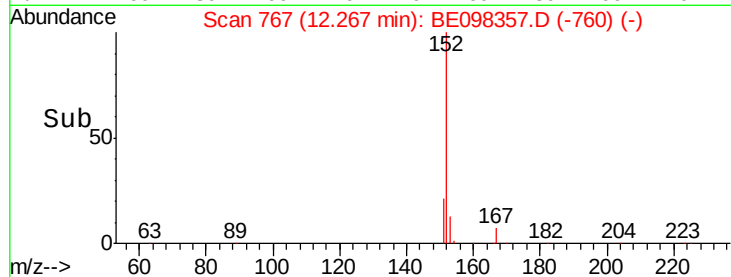
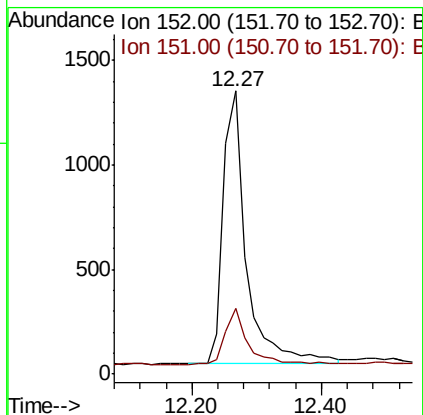
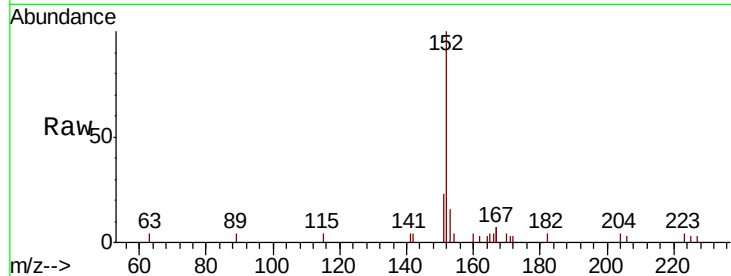




#11
 2-Methylnaphthalene-d10
 Concen: 0.411 ng
 RT: 12.27 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

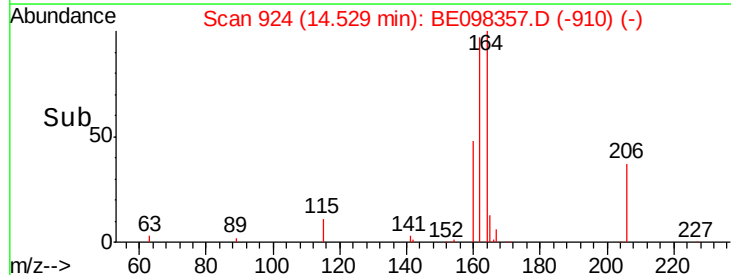
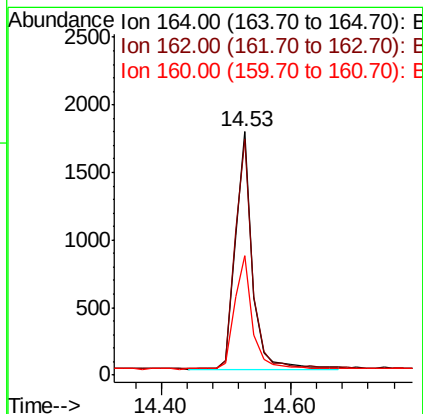
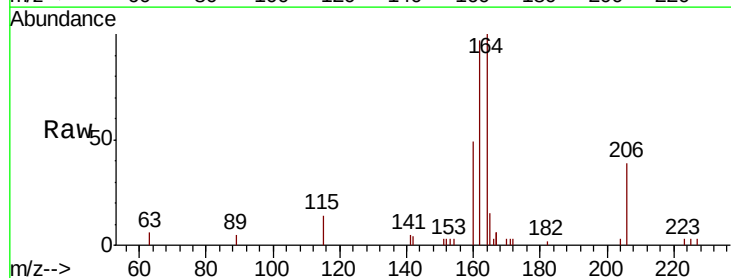
Instrument :
 BNA_E
 ClientSampleId :

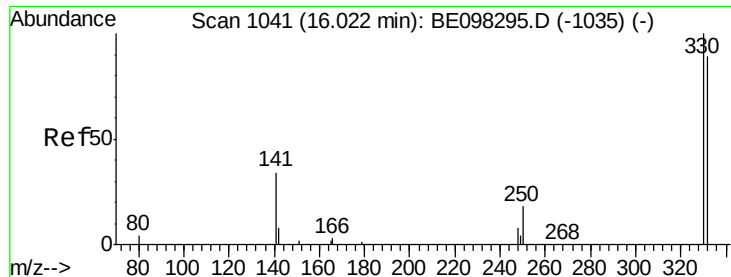
Tot Ion:152 Resp: 3230
 Ion Ratio Lower Upper
 152 100
 151 20.1 16.2 24.4



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.53 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

Tgt Ion:164 Resp: 3184
 Ion Ratio Lower Upper
 164 100
 162 97.1 77.6 116.4
 160 49.2 36.0 54.0

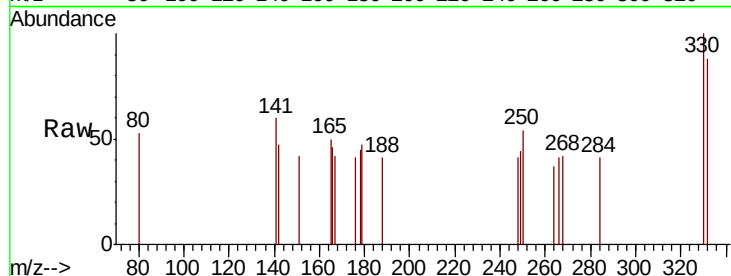




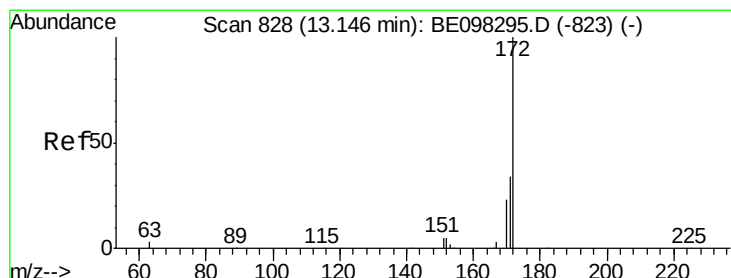
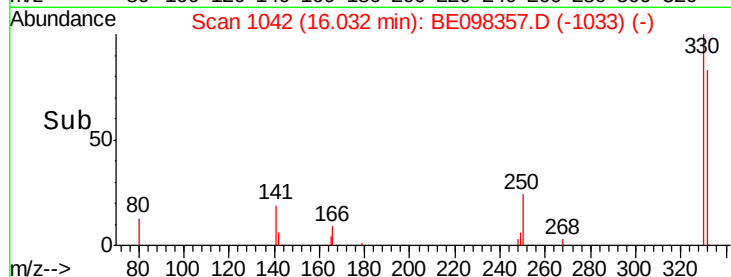
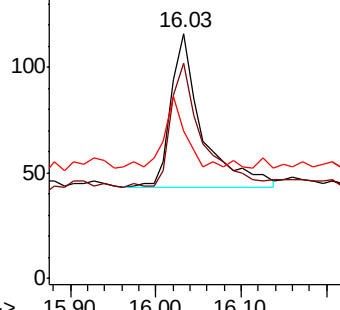
#14
 2,4,6-Tribromophenol
 Concen: 0.159 ng
 RT: 16.03 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 186
 Ion Ratio Lower Upper
 330 100
 332 82.3 76.2 114.4
 141 29.6 39.0 58.4#

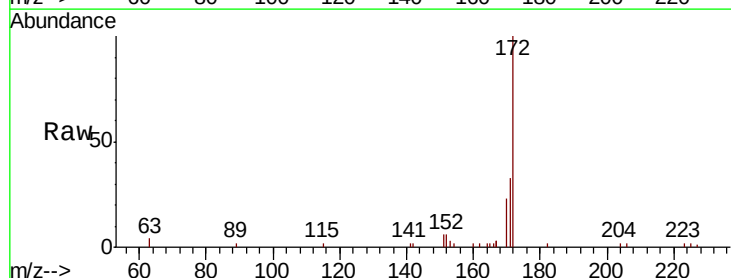


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

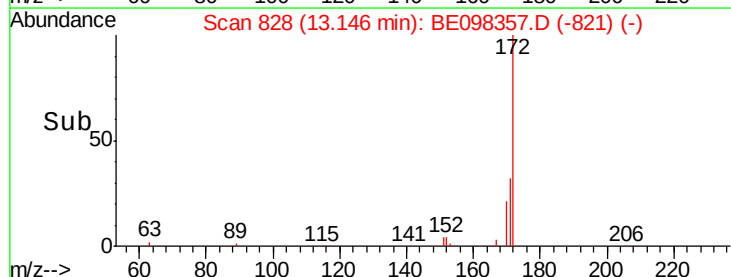
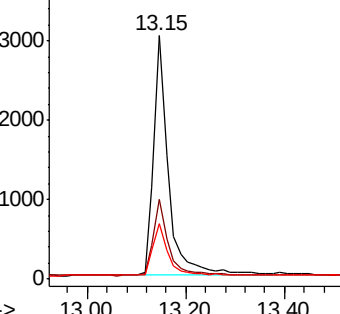


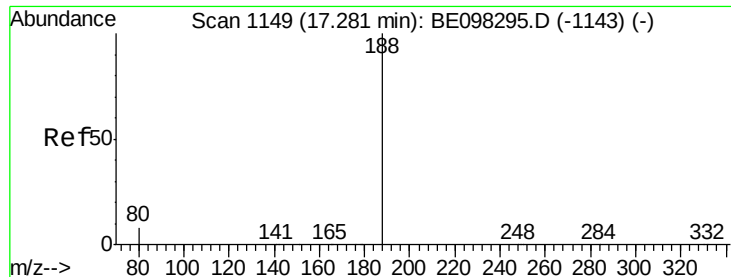
#15
 2-Fluorobiphenyl
 Concen: 0.469 ng
 RT: 13.15 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

Tgt Ion:172 Resp: 6301
 Ion Ratio Lower Upper
 172 100
 171 32.8 27.5 41.3
 170 22.6 19.6 29.4



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

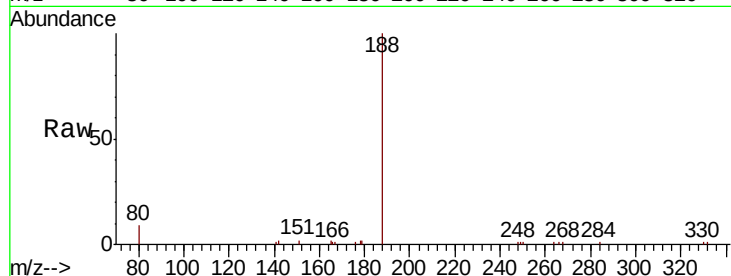
Tot Ion:188 Resp: 8319

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

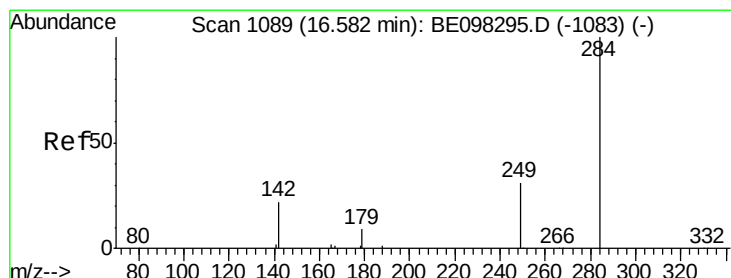
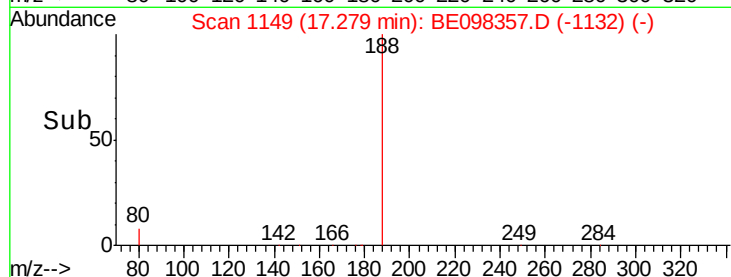
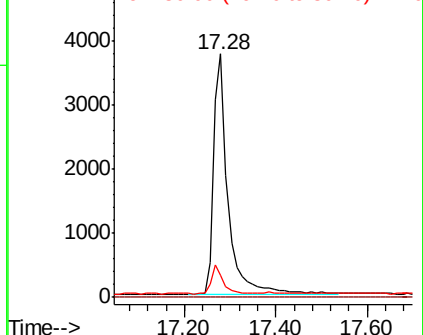
80 9.1 7.2 10.8



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



#21

Hexachlorobenzene

Concen: 0.022 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

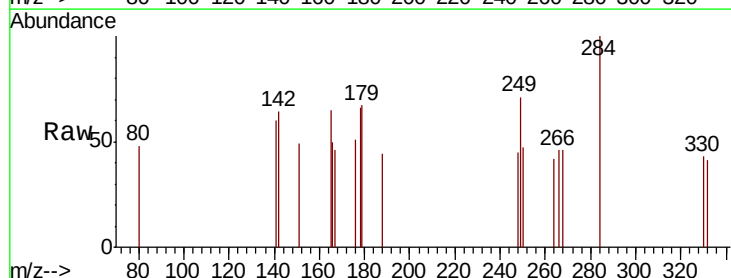
Tgt Ion:284 Resp: 104

Ion Ratio Lower Upper

284 100

142 55.8 26.3 39.5#

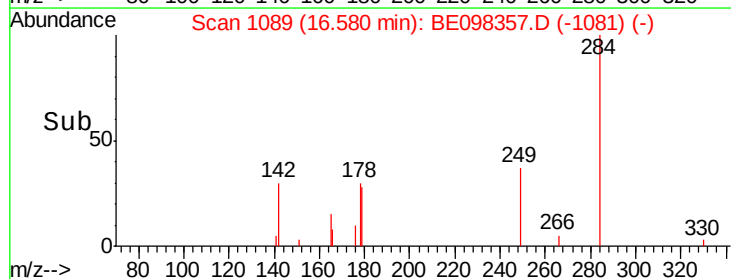
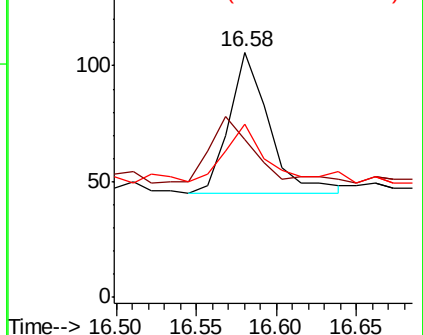
249 50.0 26.0 39.0#

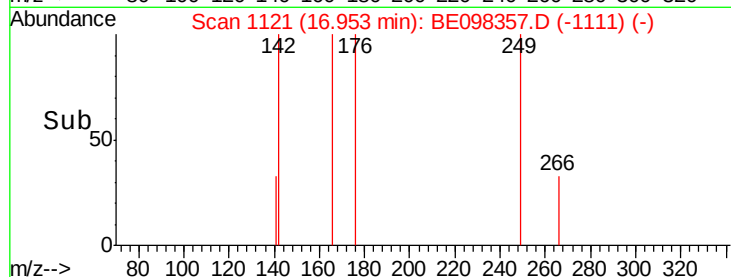
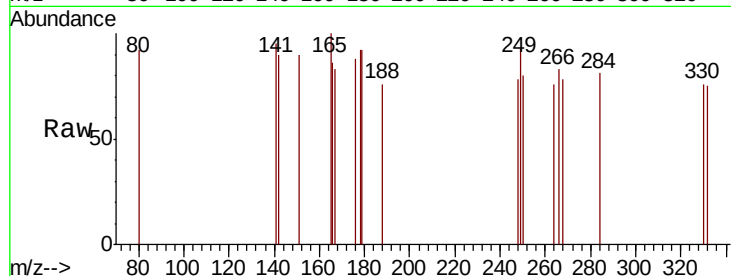
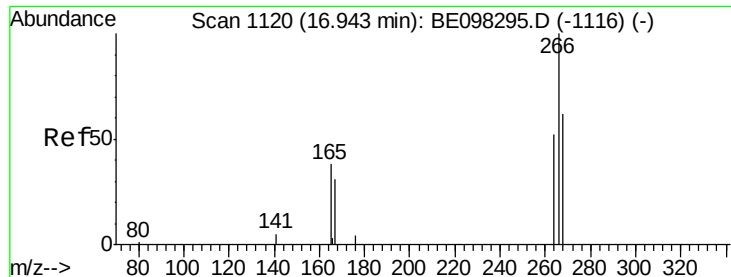


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

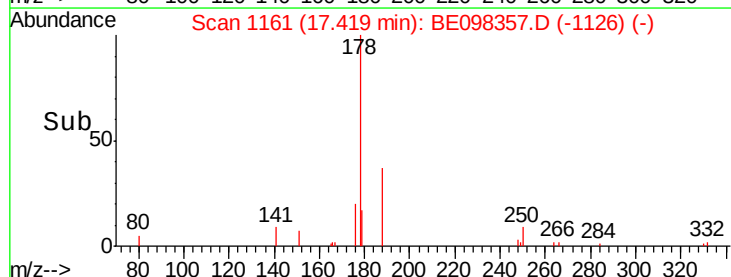
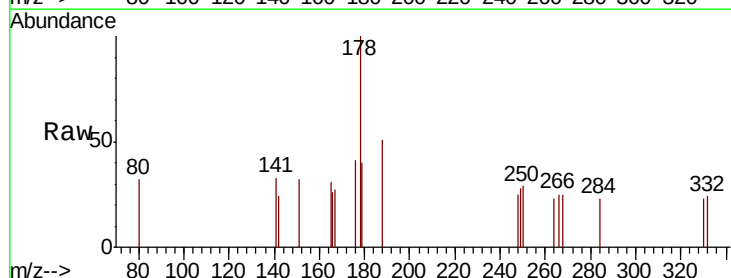
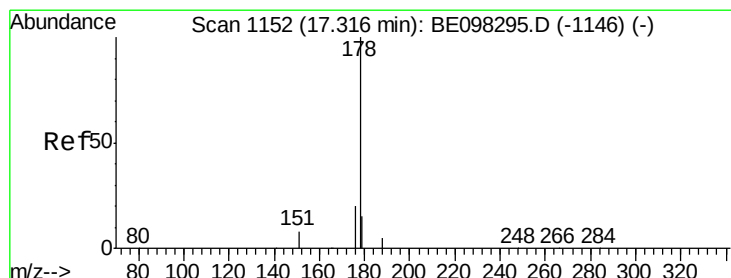
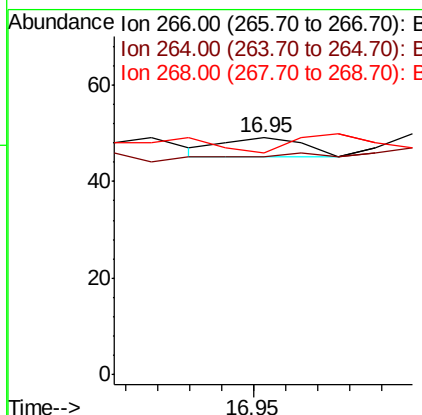




#22
 Pentachlorophenol
 Concen: 0.025 ng
 RT: 16.95 min Scan# 1121
 Delta R.T. 0.01 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

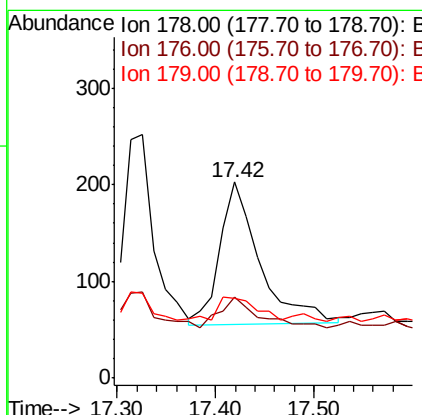
Instrument :
 BNA_E
 ClientSampleId :

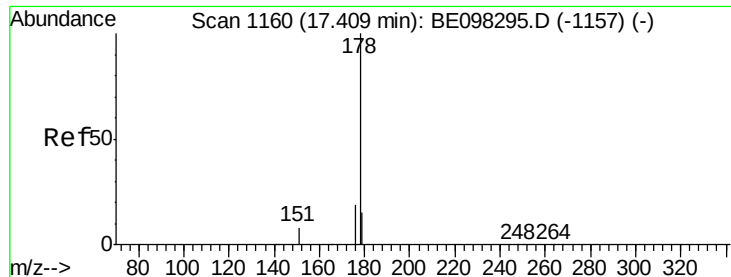
Tot Ion:266 Resp: 7
 Ion Ratio Lower Upper
 266 100
 264 91.8 59.0 88.4#
 268 93.9 55.1 82.7#



#23
 Phenanthrene
 Concen: 0.020 ng
 RT: 17.42 min Scan# 1161
 Delta R.T. 0.10 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

Tgt Ion:178 Resp: 414
 Ion Ratio Lower Upper
 178 100
 176 20.5 15.9 23.9
 179 18.4 12.3 18.5





#24

Anthracene

Concen: 0.020 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

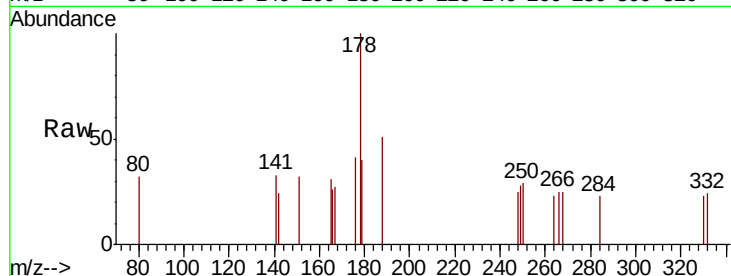
Tot Ion:178 Resp: 368

Ion Ratio Lower Upper

178 100

176 23.1 15.0 22.4#

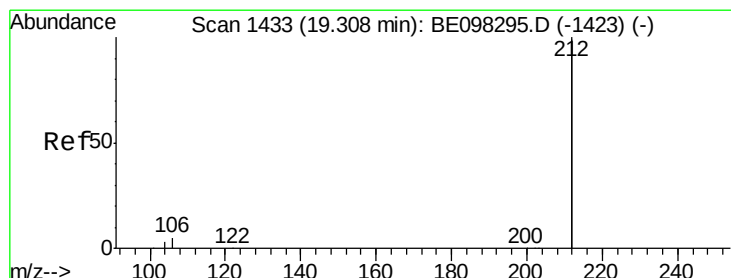
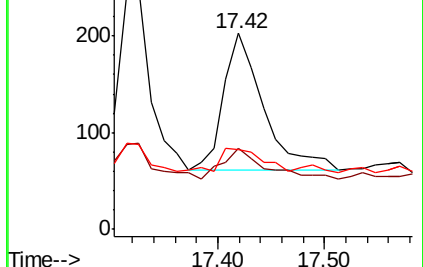
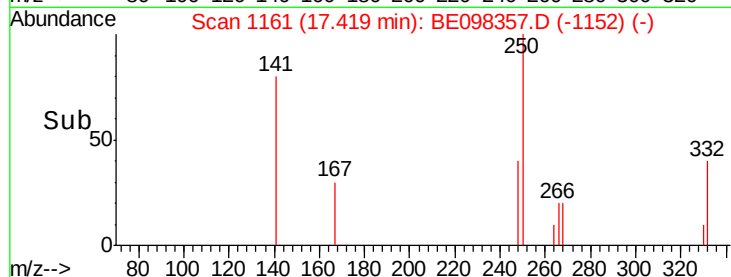
179 16.8 12.3 18.5



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: 0.445 ng

RT: 19.31 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

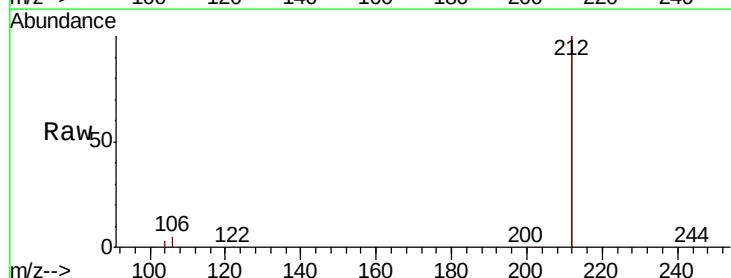
Tgt Ion:212 Resp: 47439

Ion Ratio Lower Upper

212 100

106 2.6 2.2 3.2

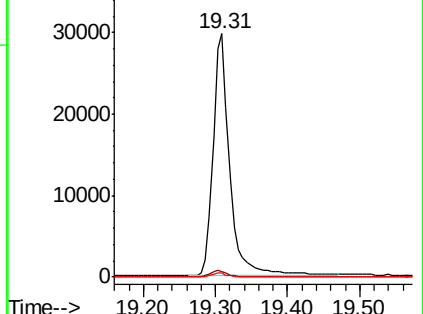
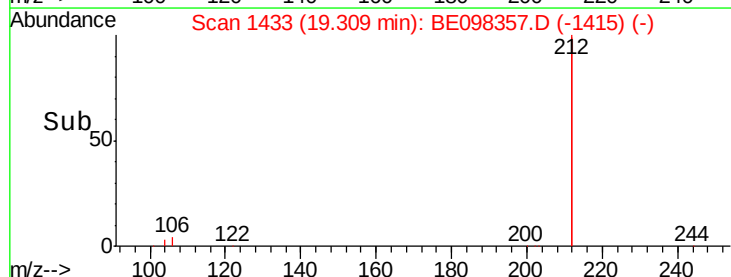
104 1.5 1.3 1.9

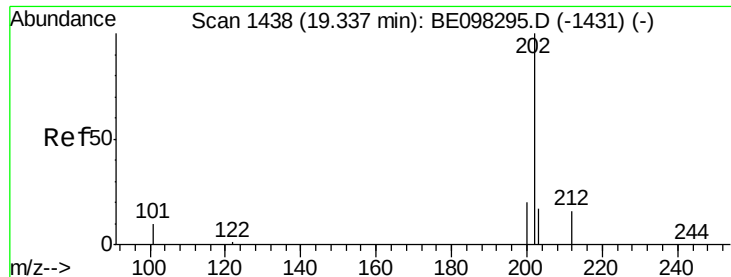


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

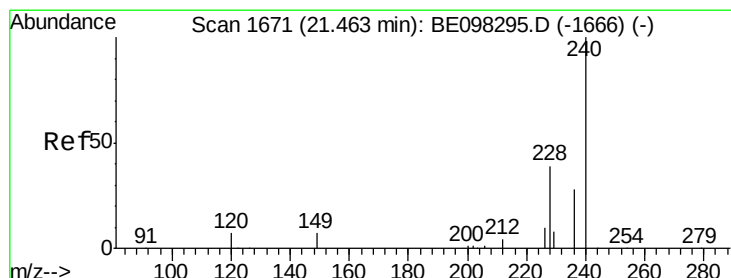
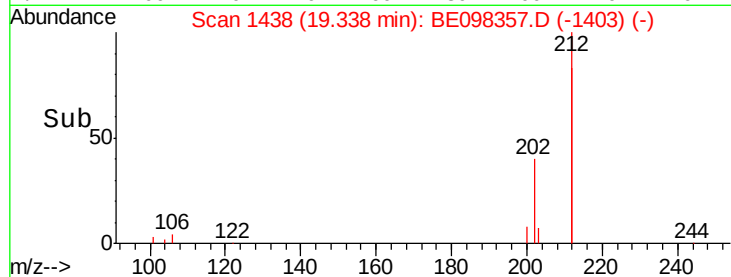
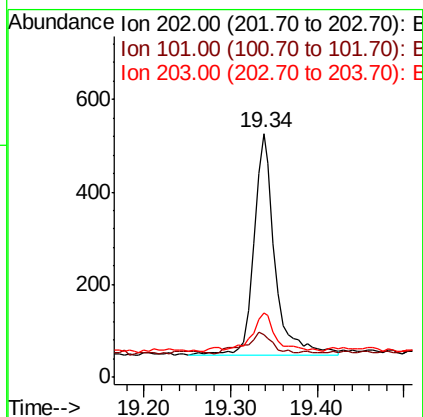
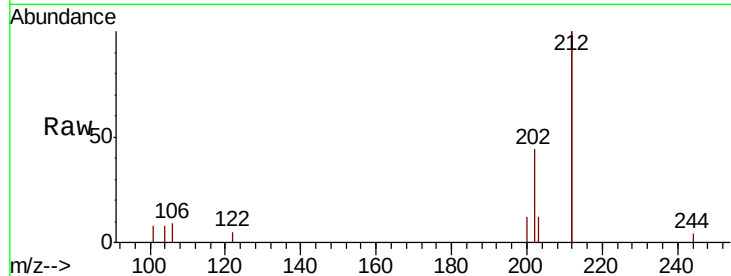




#26
Fluoranthene
Concen: 0.030 ng
RT: 19.34 min Scan# 1438
Delta R.T. 0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

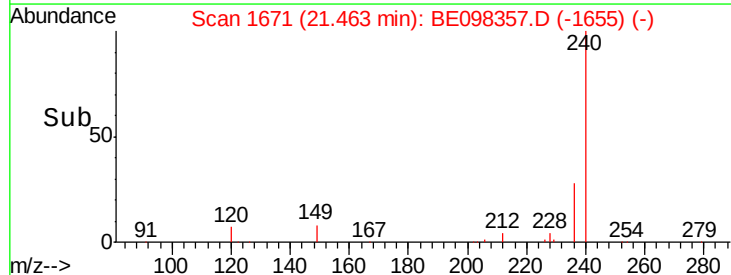
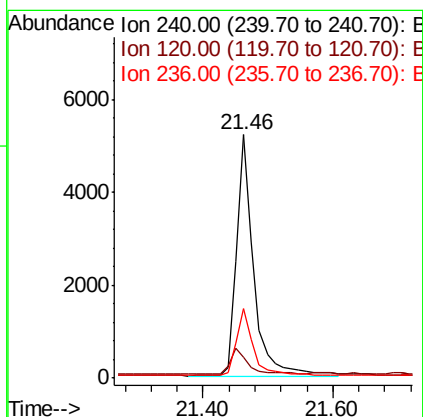
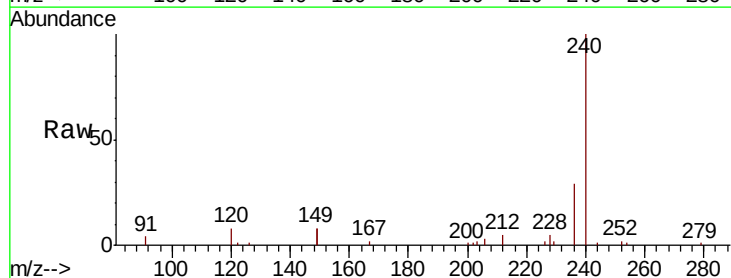
Instrument :
BNA_E
ClientSampleId :

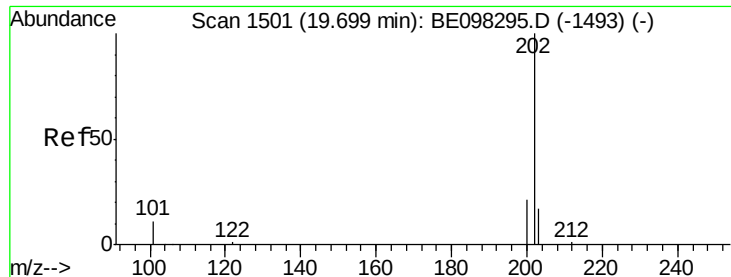
Tot Ion:202 Resp: 805
Ion Ratio Lower Upper
202 100
101 12.9 8.0 12.0#
203 18.6 13.8 20.6



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.46 min Scan# 1671
Delta R.T. -0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

Tgt Ion:240 Resp: 9633
Ion Ratio Lower Upper
240 100
120 8.4 9.5 14.3#
236 28.7 22.7 34.1





#28

Pvrene

Concen: 0.025 ng

RT: 19.71 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

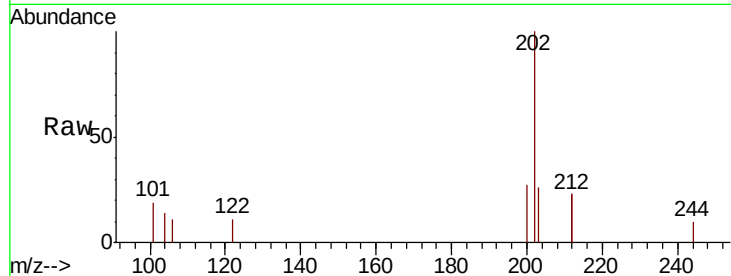
Tot Ion:202 Resp: 746

Ion Ratio Lower Upper

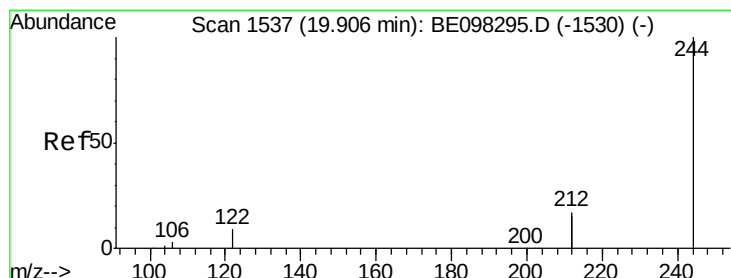
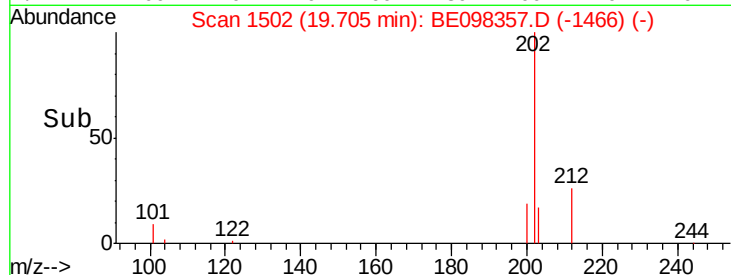
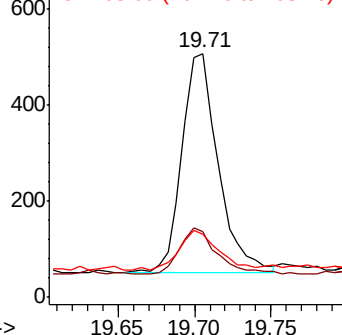
202 100

200 22.3 16.7 25.1

203 18.6 14.1 21.1



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: 0.608 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

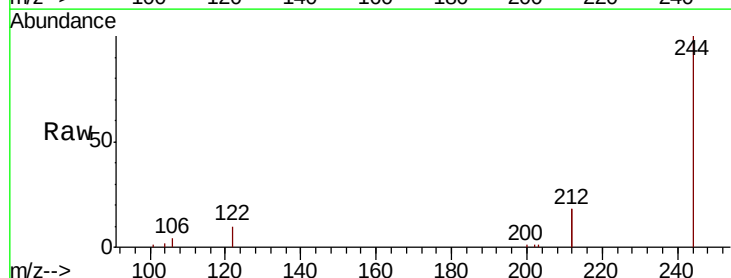
Tgt Ion:244 Resp: 14222

Ion Ratio Lower Upper

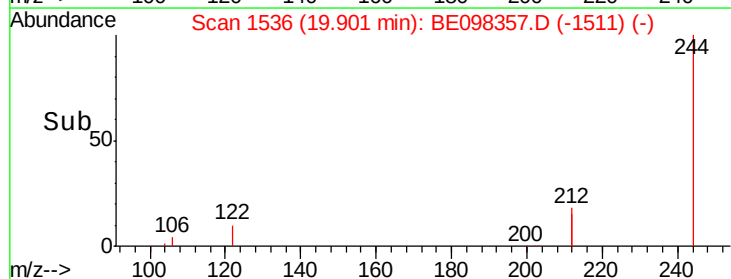
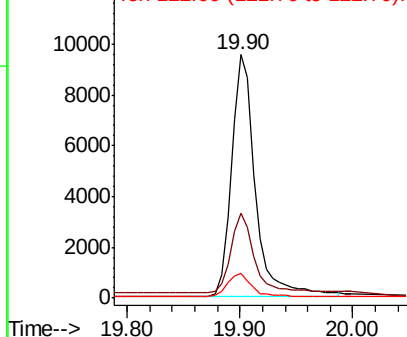
244 100

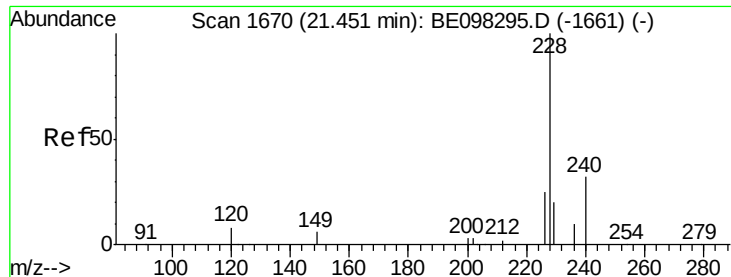
212 35.1 27.4 41.0

122 10.4 8.3 12.5



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

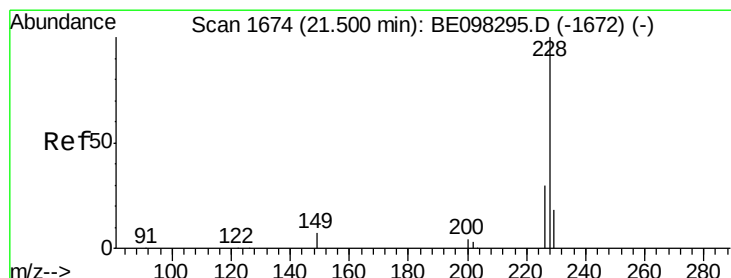
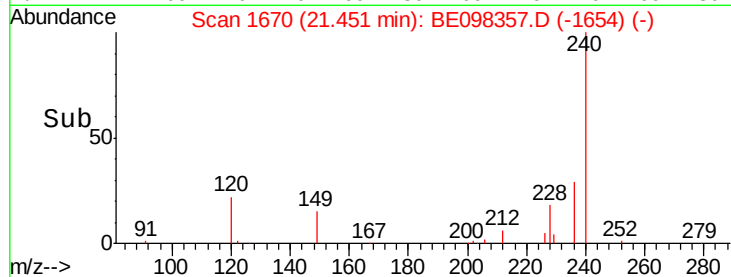
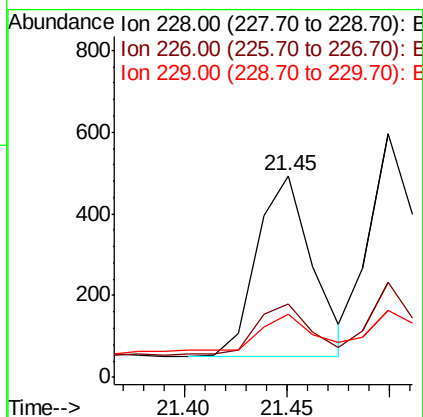
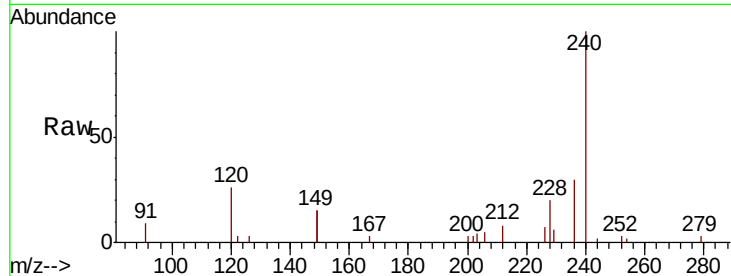




#30
Benzo(a)anthracene
Concen: 0.030 ng
RT: 21.45 min Scan# 1670
Delta R.T. -0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

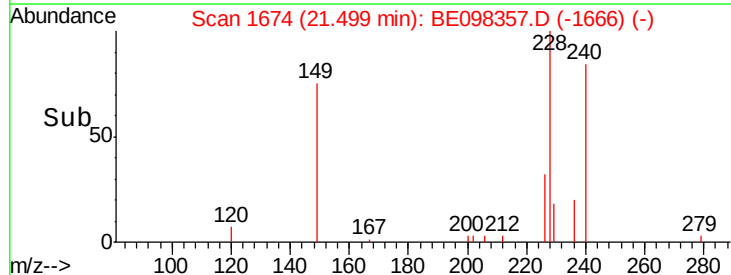
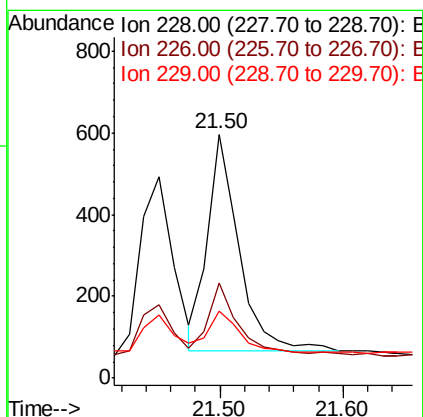
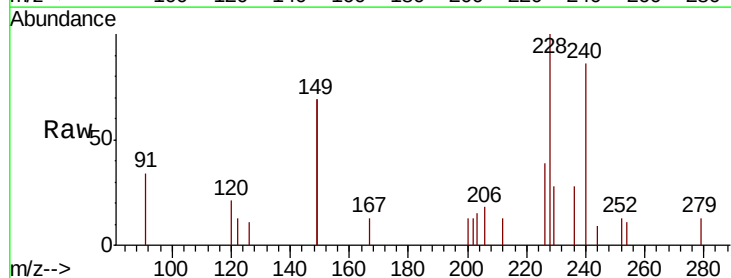
Instrument :
BNA_E
ClientSampleId :

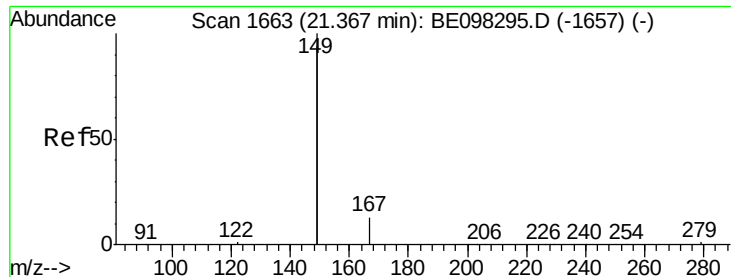
Tot Ion	Ratio	Lower	Upper
228	100		
226	36.3	21.8	32.8#
229	31.4	16.3	24.5#



#31
Chrysene
Concen: 0.032 ng
RT: 21.50 min Scan# 1674
Delta R.T. -0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.3	23.4	35.0#
229	27.7	16.2	24.4#





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.090 ng

RT: 21.37 min Scan# 1663

Delta R.T. -0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

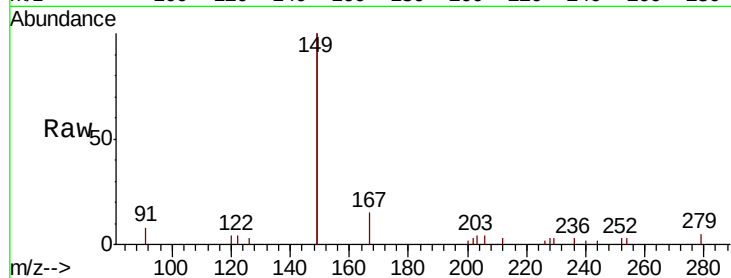
Tot Ion:149 Resp: 5009

Ion Ratio Lower Upper

149 100

167 7.2 5.7 8.5

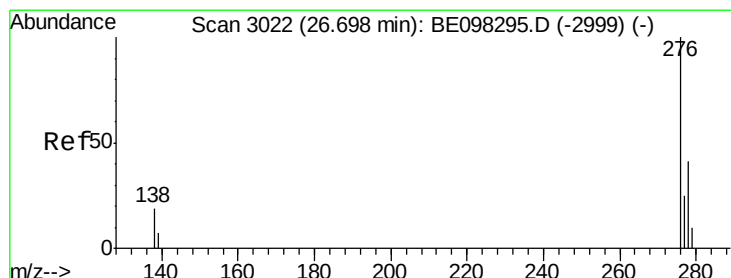
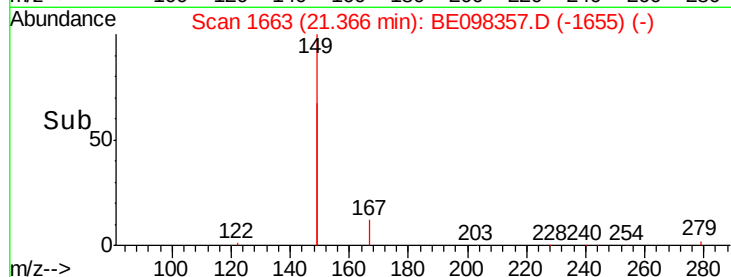
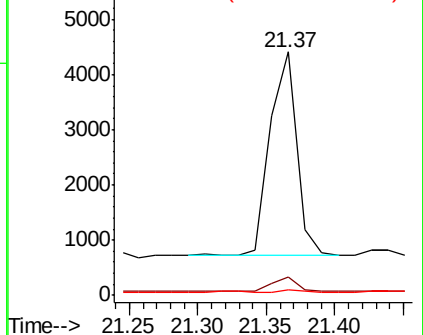
279 1.5 1.0 1.4#



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: 0.038 ng

RT: 26.71 min Scan# 3024

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

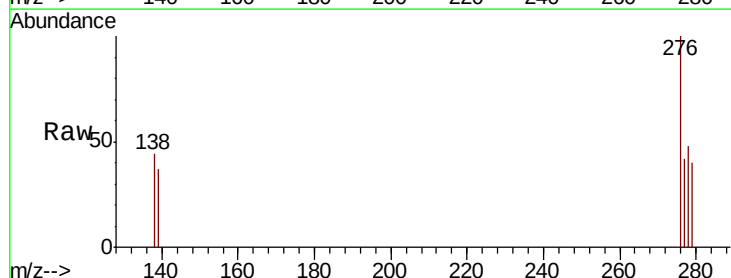
Tgt Ion:276 Resp: 1098

Ion Ratio Lower Upper

276 100

138 9.8 16.3 24.5#

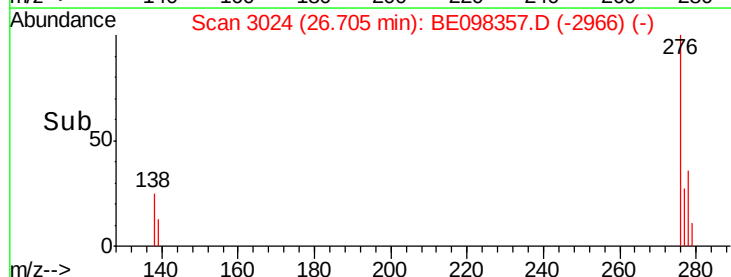
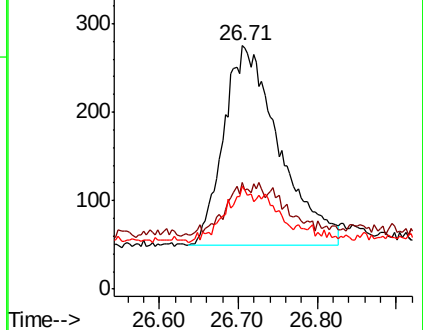
277 12.2 20.2 30.4#

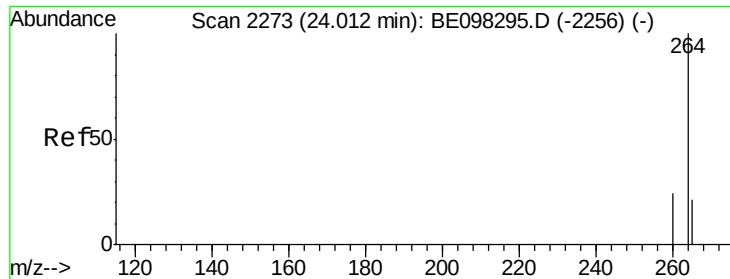


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

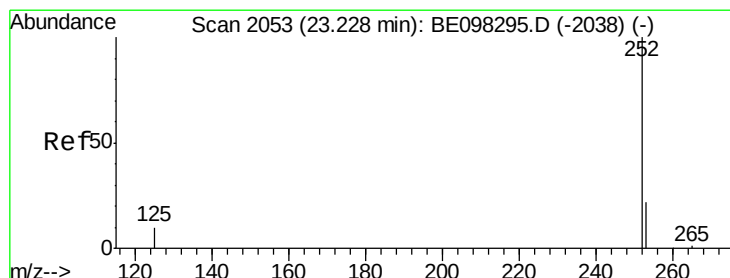
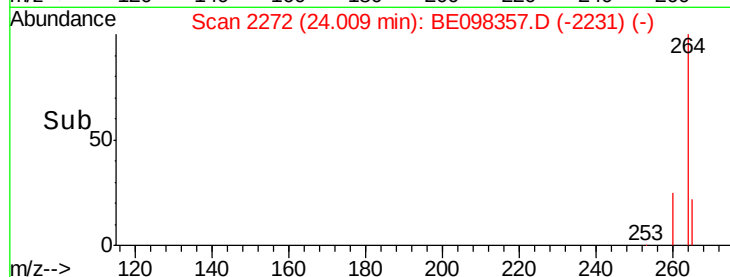
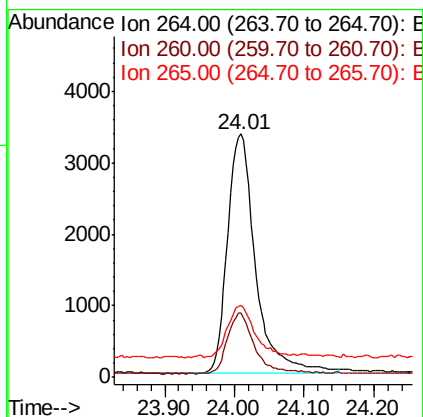
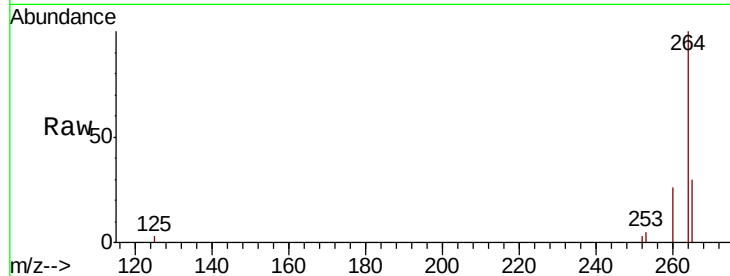




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.01 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

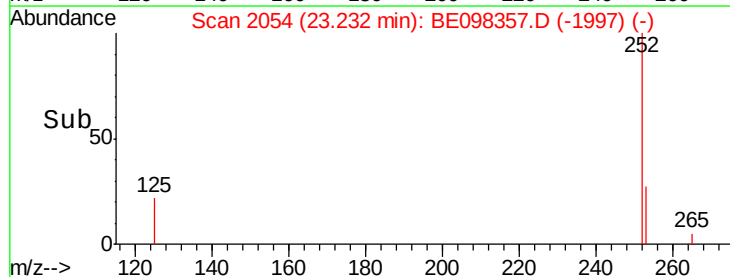
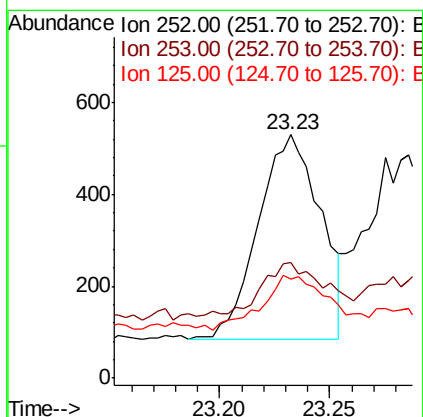
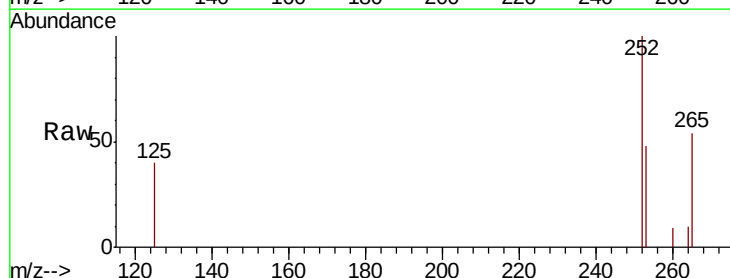
Instrument :
 BNA_E
 ClientSampleId :

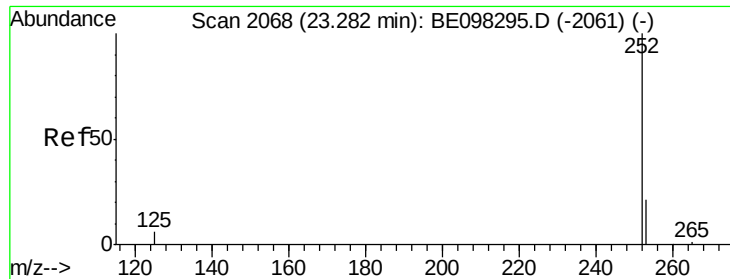
Tot Ion:264 Resp: 9360
 Ion Ratio Lower Upper
 264 100
 260 26.3 20.2 30.2
 265 29.7 25.2 37.8



#35
 Benzo(b)fluoranthene
 Concen: 0.034 ng
 RT: 23.23 min Scan# 2054
 Delta R.T. 0.00 min
 Lab File: BE098357.D
 Acq: 12 Dec 2018 6:38

Tgt Ion:252 Resp: 873
 Ion Ratio Lower Upper
 252 100
 253 47.7 20.0 30.0#
 125 40.4 9.6 14.4#

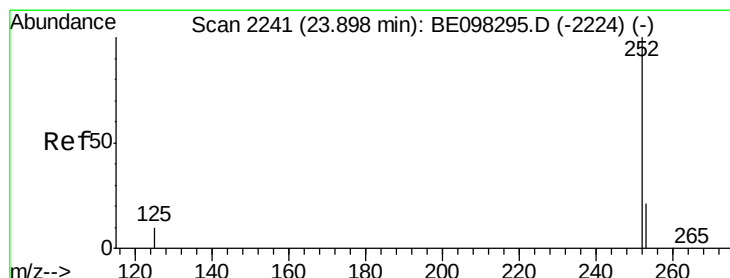
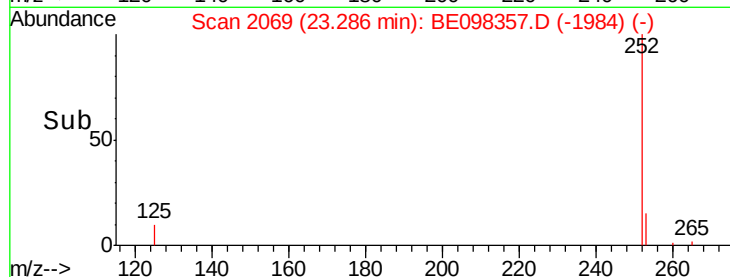
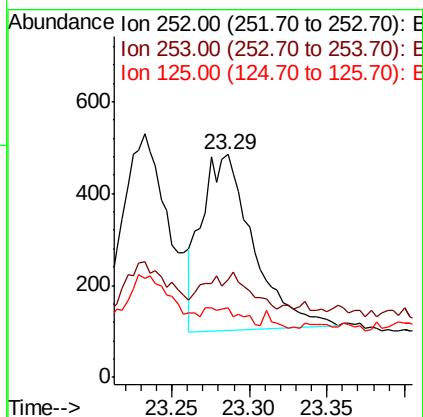
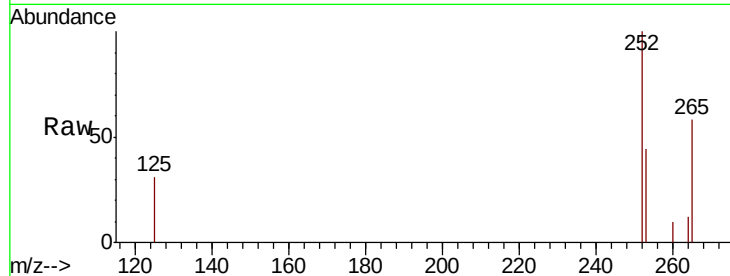




#36
Benzo(k)fluoranthene
Concen: 0.030 ng
RT: 23.29 min Scan# 2069
Delta R.T. 0.00 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

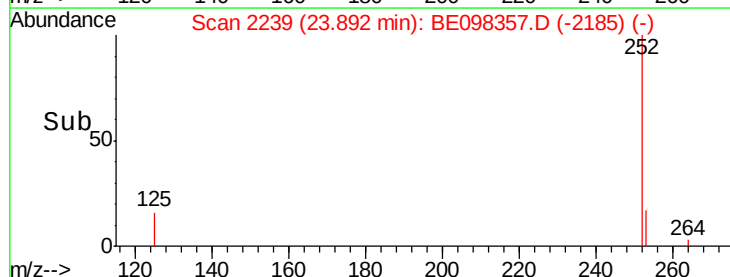
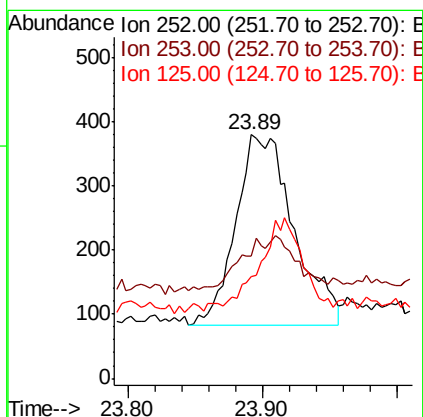
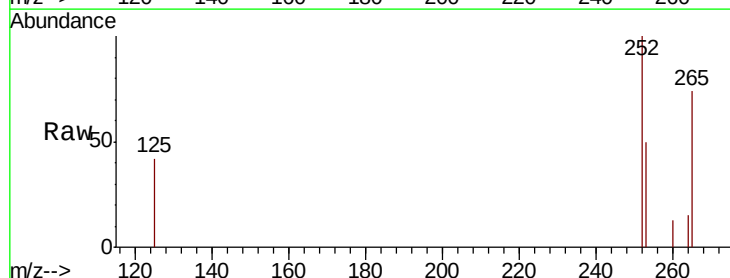
Instrument :
BNA_E
ClientSampleId :

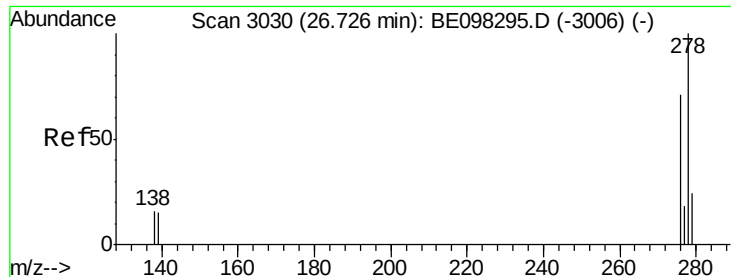
Tot Ion:252 Resp: 888
Ion Ratio Lower Upper
252 100
253 43.9 19.0 28.6#
125 31.1 9.1 13.7#



#37
Benzo(a)pyrene
Concen: 0.034 ng
RT: 23.89 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BE098357.D
Acq: 12 Dec 2018 6:38

Tgt Ion:252 Resp: 887
Ion Ratio Lower Upper
252 100
253 50.0 20.6 30.8#
125 41.6 10.5 15.7#





#38

Dibenzo(a,h)anthracene

Concen: 0.032 ng

RT: 26.73 min Scan# 3032

Delta R.T. 0.01 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

Instrument :

BNA_E

ClientSampleId :

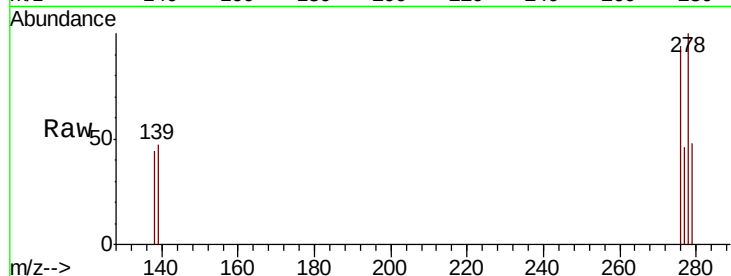
Tot Ion:278 Resp: 784

Ion Ratio Lower Upper

278 100

139 46.8 14.5 21.7#

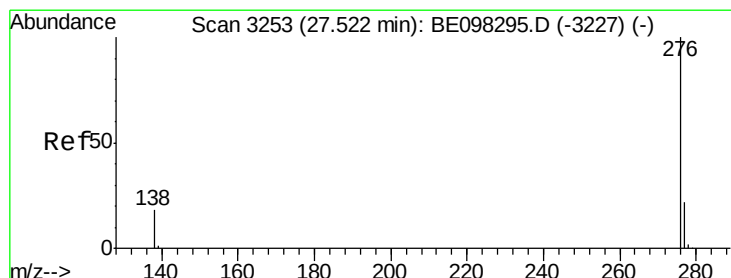
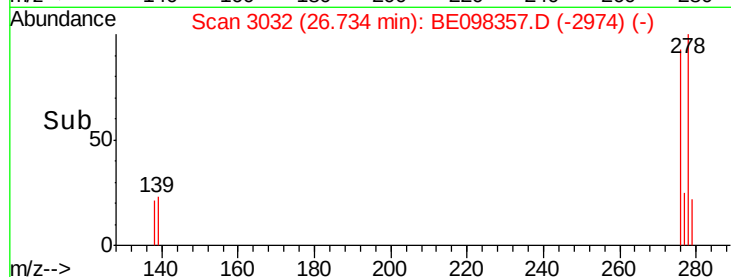
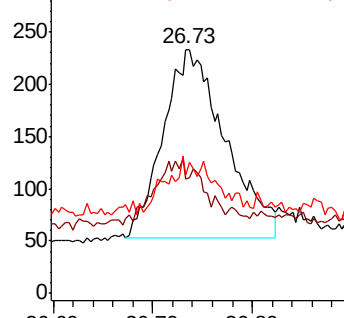
279 48.5 21.8 32.8#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.020 ng

RT: 27.52 min Scan# 3253

Delta R.T. 0.00 min

Lab File: BE098357.D

Acq: 12 Dec 2018 6:38

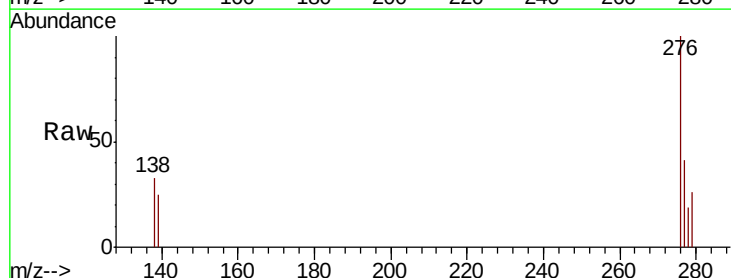
Tgt Ion:276 Resp: 507

Ion Ratio Lower Upper

276 100

277 41.4 20.8 31.2#

138 33.2 15.8 23.6#



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

