

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121118\
 Data File : BE098359.D
 Acq On : 12 Dec 2018 9:58
 Operator : SJ/JU
 Sample : PB115506BS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 12 17:37:30 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	1336	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	5254	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	2954	0.40	ng	0.00
19) Phenanthrene-d10	17.28	188	7714	0.40	ng	0.00
27) Chrysene-d12	21.46	240	10489	0.40	ng	0.00
34) Perylene-d12	24.00	264	9958	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.46	112	735	0.24	ng	0.01
5) Phenol-d6	7.06	99	874	0.20	ng	0.01
8) Nitrobenzene-d5	9.03	82	1029	0.22	ng	0.01
11) 2-Methylnaphthalene-d10	12.27	152	2068	0.24	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	199	0.18	ng	0.01
15) 2-Fluorobiphenyl	13.14	172	2990	0.24	ng	0.00
25) Fluoranthene-d10	19.31	212	24630	0.25	ng	0.00
29) Terphenyl-d14	19.91	244	4712	0.18	ng	0.00

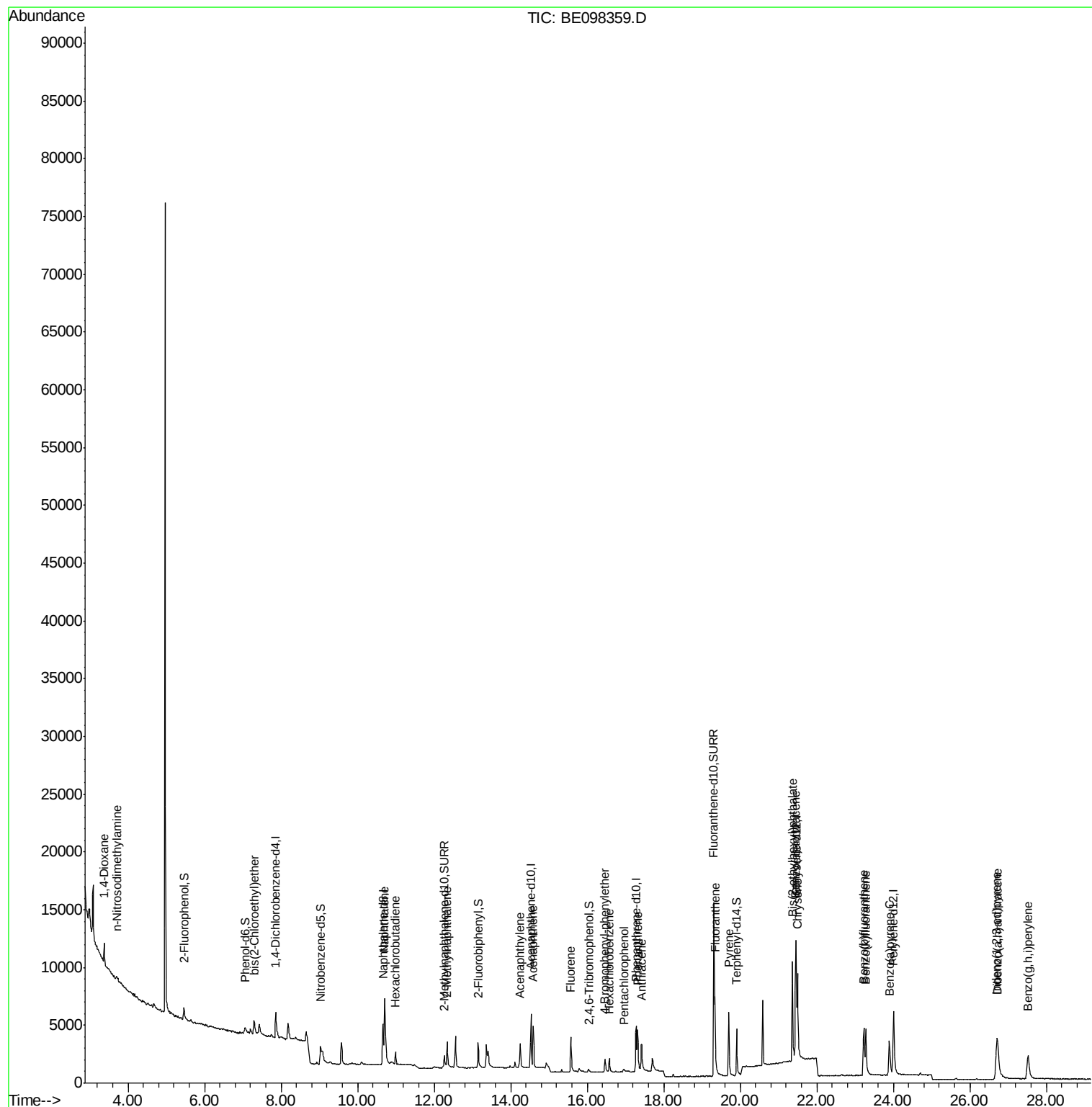
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.37	88	831	0.360	ng	# 52
3) n-Nitrosodimethylamine	3.70	42	507	0.244	ng	# 100
6) bis(2-Chloroethyl)ether	7.29	93	695	0.165	ng	91
9) Naphthalene	10.70	128	12528	0.237	ng	# 98
10) Hexachlorobutadiene	10.99	225	748	0.222	ng	98
12) 2-Methylnaphthalene	12.34	142	1979	0.230	ng	98
16) Acenaphthylene	14.24	152	3272	0.236	ng	98
17) Acenaphthene	14.59	154	1839	0.221	ng	97
18) Fluorene	15.57	166	2479	0.223	ng	100
20) 4-Bromophenyl-phenylether	16.46	248	820	0.197	ng	93
21) Hexachlorobenzene	16.58	284	954	0.214	ng	94
22) Pentachlorophenol	16.95	266	217	0.314	ng	# 88
23) Phenanthrene	17.31	178	4223	0.225	ng	99
24) Anthracene	17.42	178	3495	0.209	ng	98
26) Fluoranthene	19.34	202	6106	0.246	ng	99
28) Pyrene	19.70	202	6183	0.188	ng	100
30) Benzo(a)anthracene	21.45	228	6793	0.227	ng	99
31) Chrysene	21.50	228	7262	0.232	ng	99
32) Bis(2-ethylhexyl)phthalate	21.37	149	11247	0.185	ng	99
33) Indeno(1,2,3-cd)pyrene	26.70	276	7319	0.235	ng	99
35) Benzo(b)fluoranthene	23.23	252	6166	0.226	ng	99
36) Benzo(k)fluoranthene	23.28	252	7715	0.243	ng	99
37) Benzo(a)pyrene	23.89	252	6867	0.244	ng	99
38) Dibenzo(a,h)anthracene	26.73	278	5714	0.216	ng	96
39) Benzo(g,h,i)perylene	27.52	276	6420	0.241	ng	97

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

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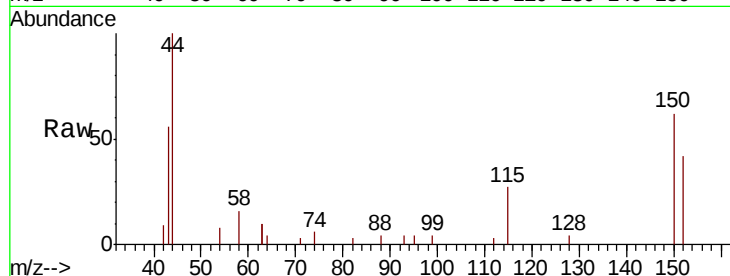


#1

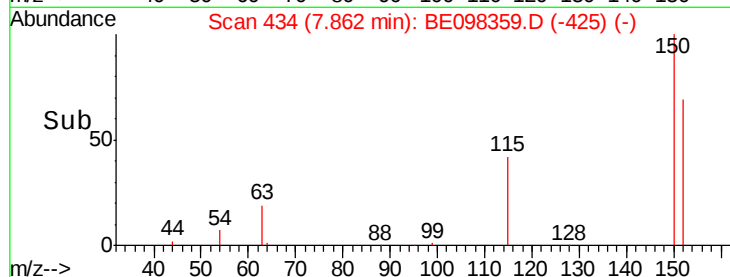
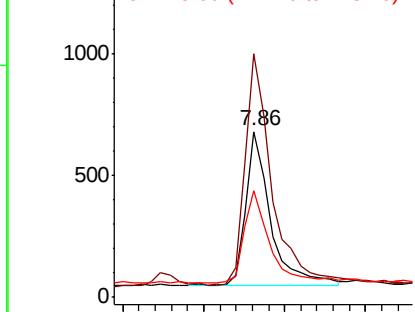
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1336
Ion Ratio Lower Upper
152 100
150 146.9 124.2 186.4
115 64.1 53.9 80.9



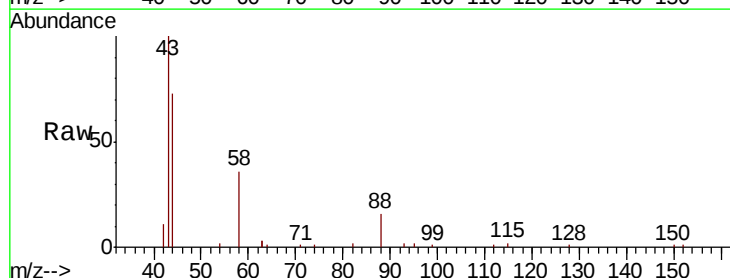
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



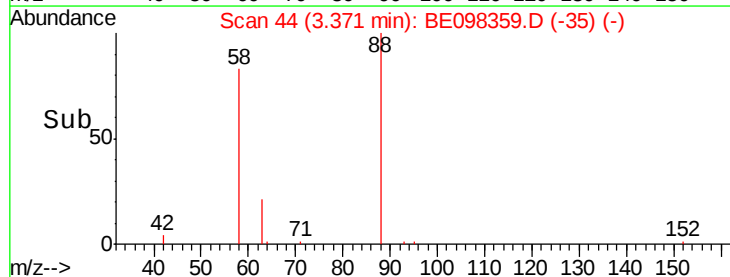
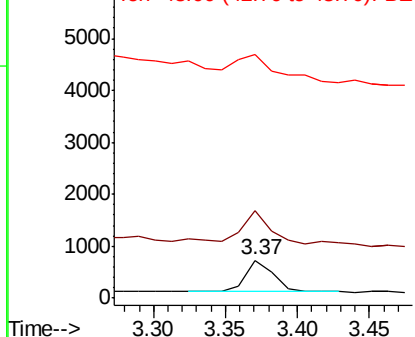
#2

1,4-Dioxane
Concen: 0.360 ng
RT: 3.37 min Scan# 44
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion: 88 Resp: 831
Ion Ratio Lower Upper
88 100
58 105.7 75.0 112.6
43 126.8 38.3 57.5#



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



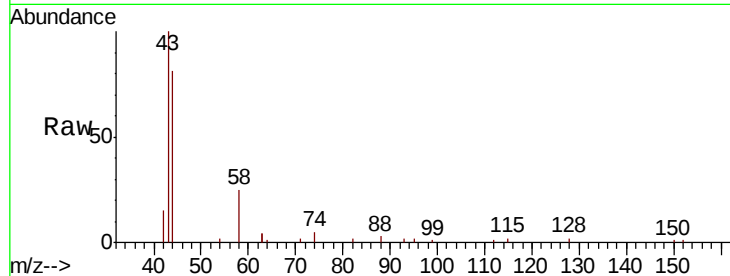


#3

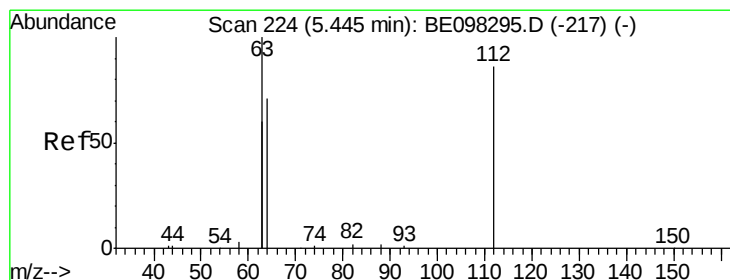
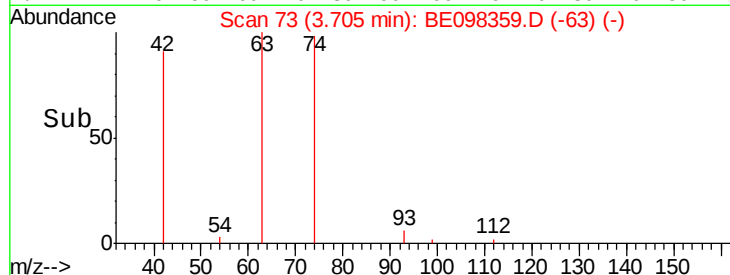
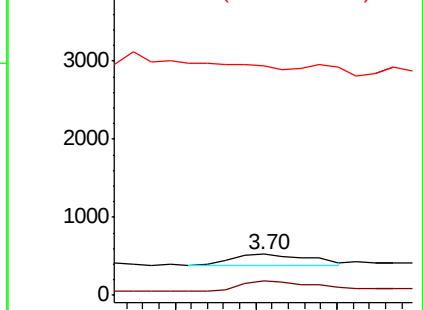
n-Nitrosodimethylamine
 Concen: 0.244 ng
 RT: 3.70 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 507
 Ion Ratio Lower Upper
 42 100
 74 72.0 0.0 0.0#
 44 0.0 0.0 0.0



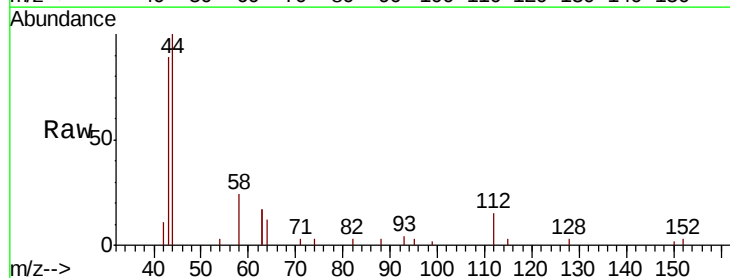
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



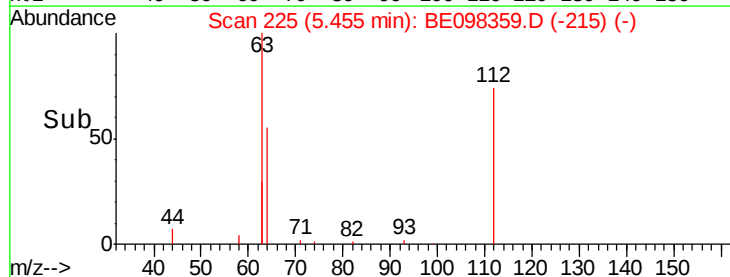
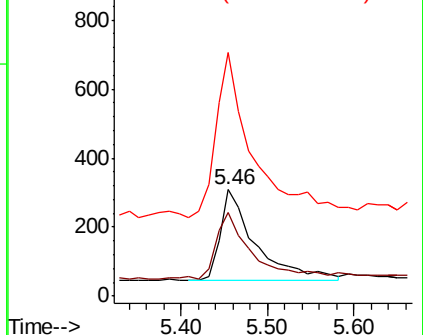
#4

2-Fluorophenol
 Concen: 0.235 ng
 RT: 5.46 min Scan# 225
 Delta R.T. 0.01 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

Tgt Ion: 112 Resp: 735
 Ion Ratio Lower Upper
 112 100
 64 80.4 59.8 89.8
 63 201.6 133.7 200.5#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.197 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampled :

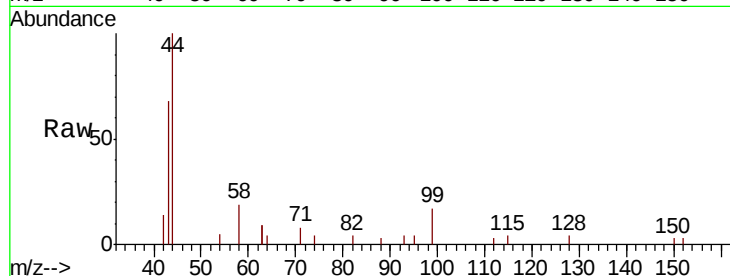
Tot Ion: 99 Resp: 874

Ion Ratio Lower Upper

99 100

42 35.8 26.3 39.5

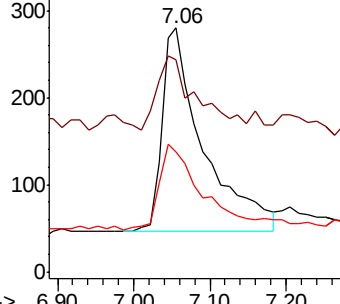
71 49.0 33.6 50.4



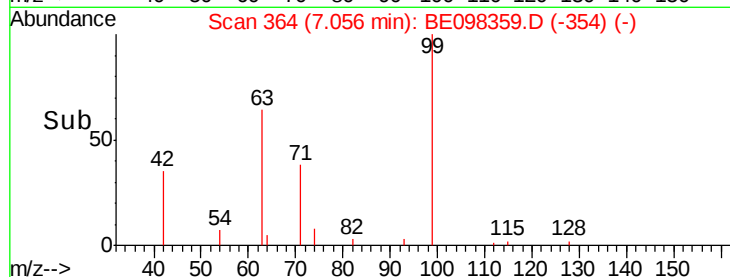
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 6.90 7.00 7.10 7.20



#6

bis(2-Chloroethyl)ether

Concen: 0.165 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

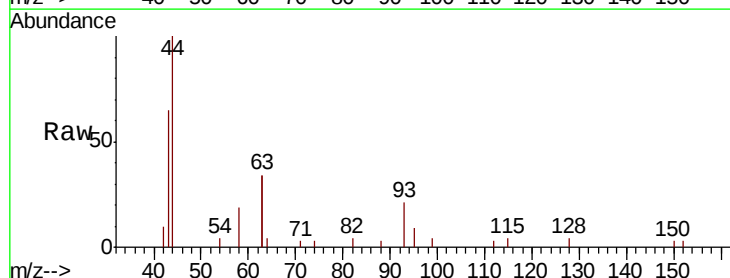
Tgt Ion: 93 Resp: 695

Ion Ratio Lower Upper

93 100

63 349.2 264.4 396.6

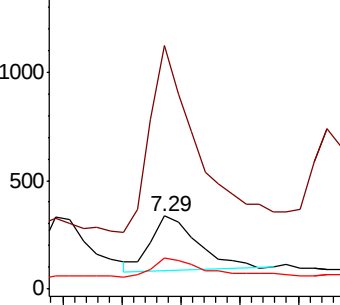
95 38.6 26.6 40.0



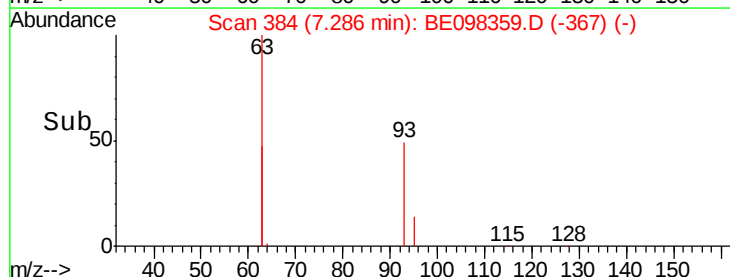
Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time--> 7.20 7.25 7.30 7.35 7.40





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 5254

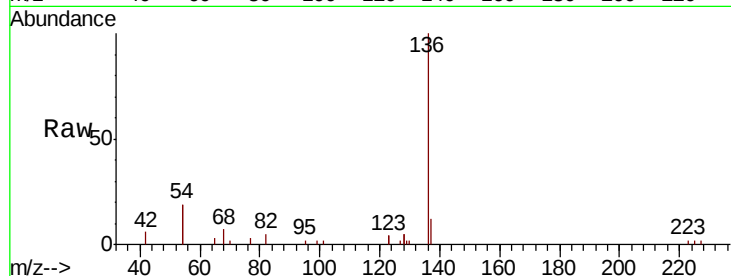
Ion Ratio Lower Upper

136 100

137 12.2 9.2 13.8

54 38.5 28.4 42.6

68 7.3 5.4 8.0

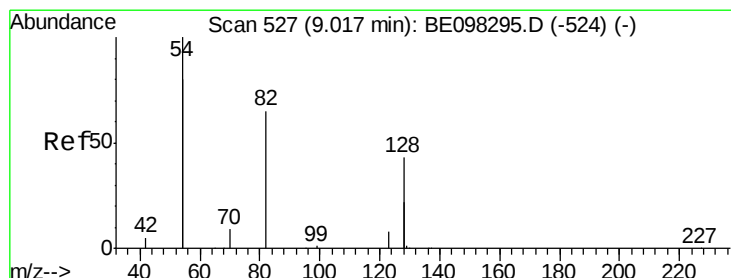
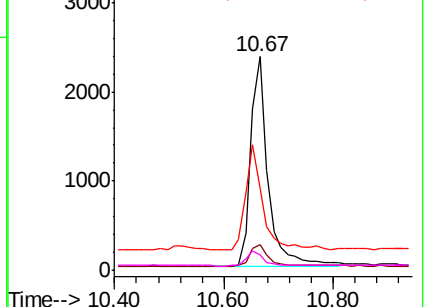
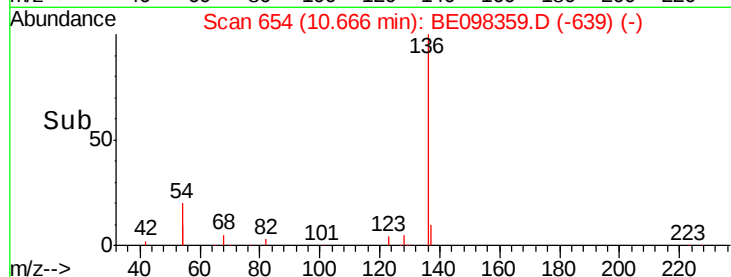


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.215 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

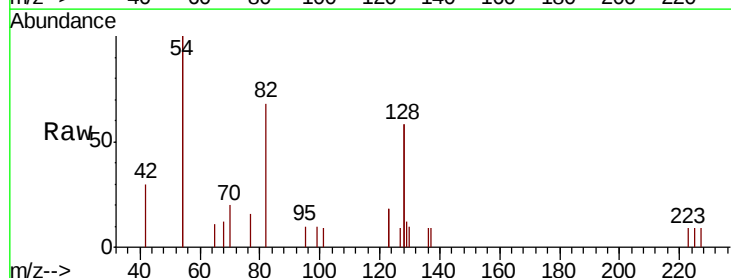
Tgt Ion: 82 Resp: 1029

Ion Ratio Lower Upper

82 100

128 170.3 102.4 153.6#

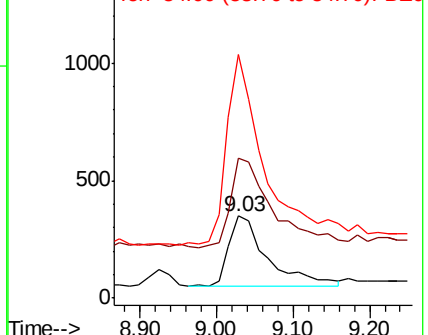
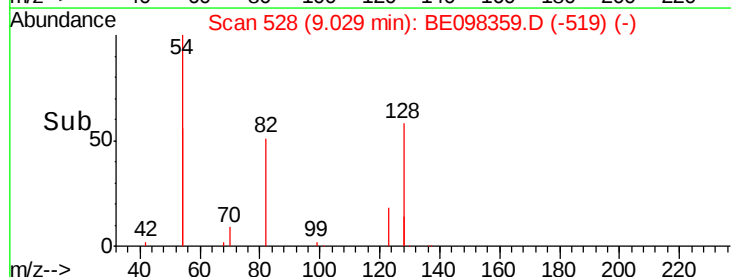
54 296.0 221.8 332.8



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





#9

Naphthalene

Concen: 0.237 ng

RT: 10.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

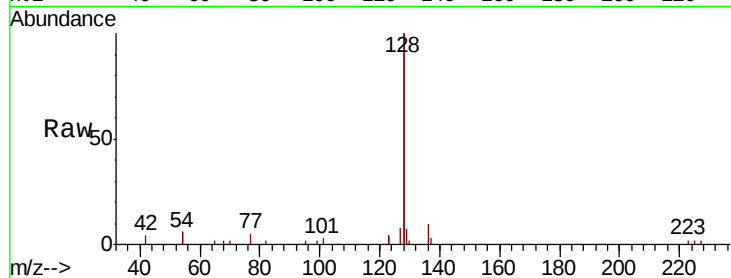
Tot Ion:128 Resp: 12528

Ion Ratio Lower Upper

128 100

129 3.6 2.5 3.7

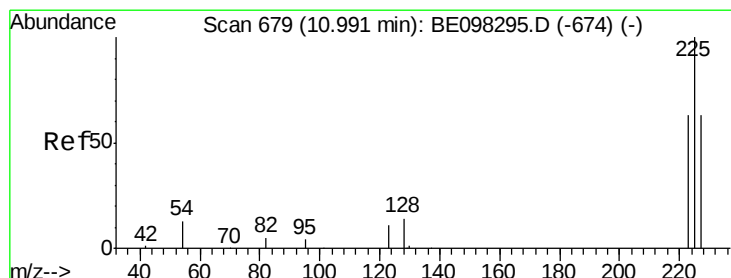
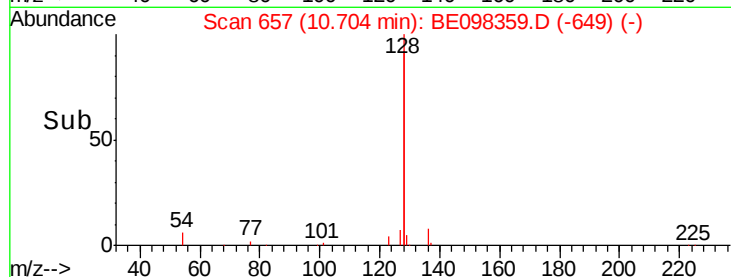
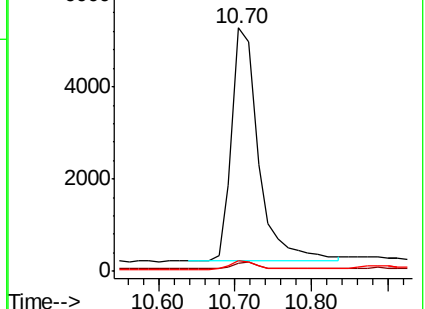
127 4.2 2.7 4.1#



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: 0.222 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

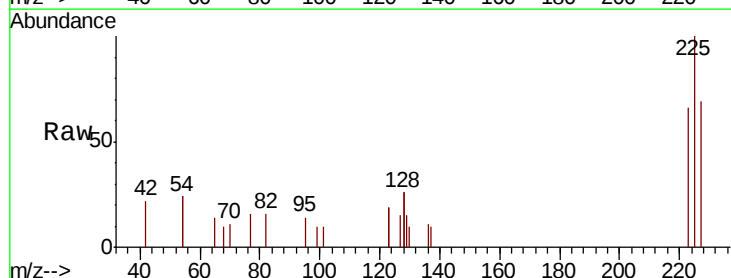
Tgt Ion:225 Resp: 748

Ion Ratio Lower Upper

225 100

223 61.6 49.4 74.0

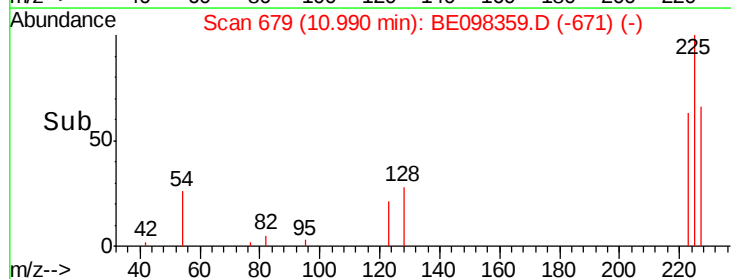
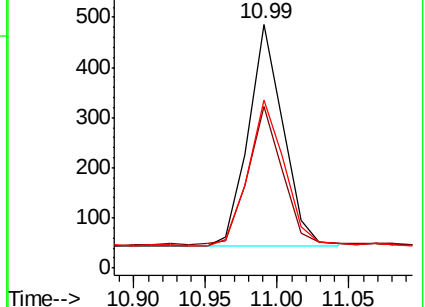
227 67.2 52.0 78.0

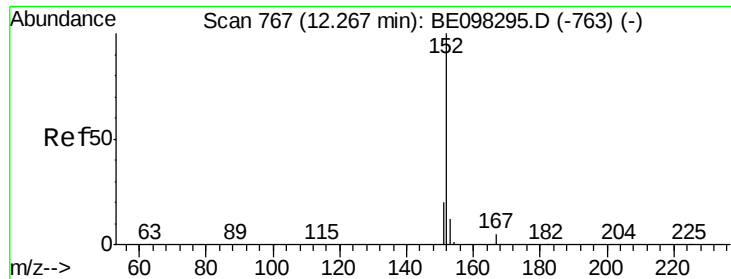


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

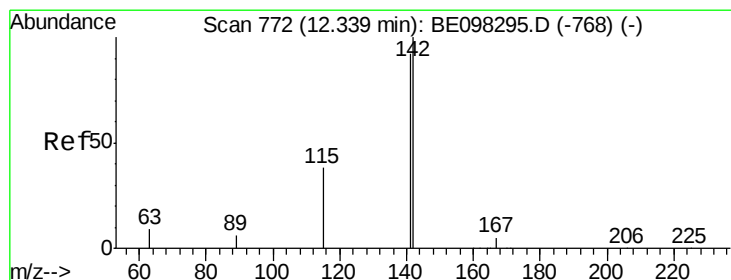
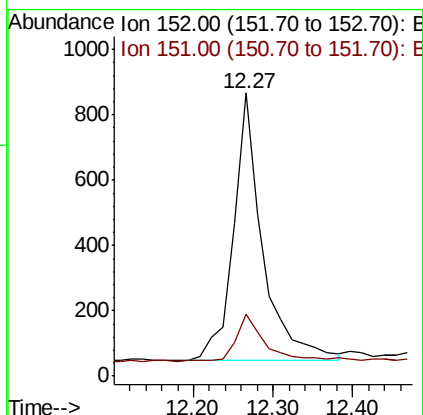
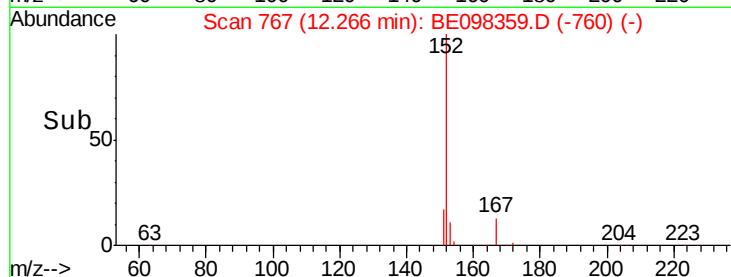
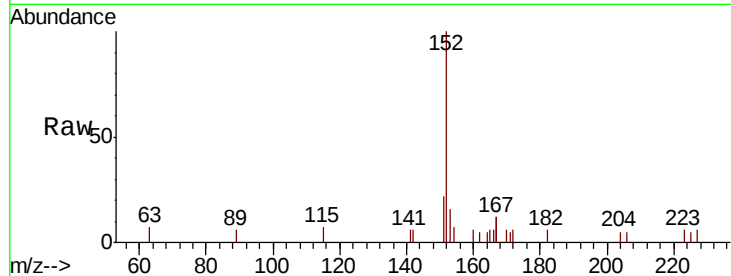




#11
 2-Methylnaphthalene-d10
 Concen: 0.242 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

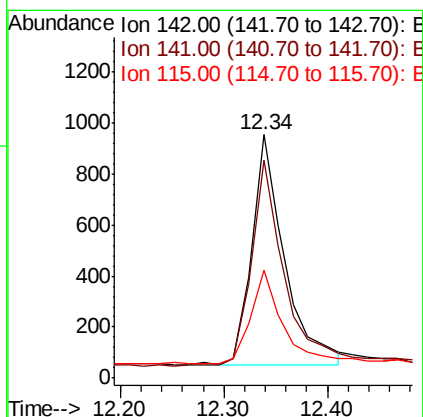
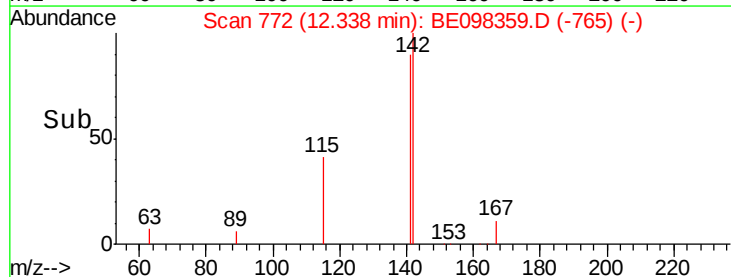
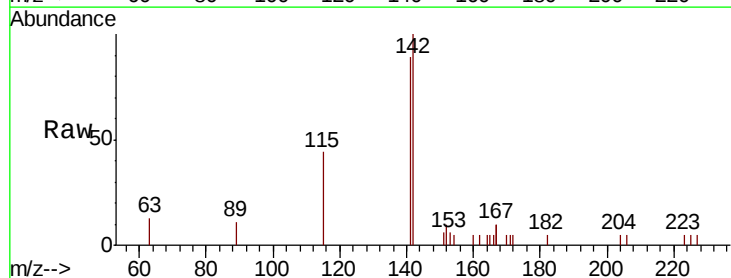
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:152 Resp: 2068
 Ion Ratio Lower Upper
 152 100
 151 17.5 16.2 24.4



#12
 2-Methylnaphthalene
 Concen: 0.230 ng
 RT: 12.34 min Scan# 772
 Delta R.T. -0.00 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

Tgt Ion:142 Resp: 1979
 Ion Ratio Lower Upper
 142 100
 141 89.3 71.0 106.6
 115 44.3 32.2 48.2

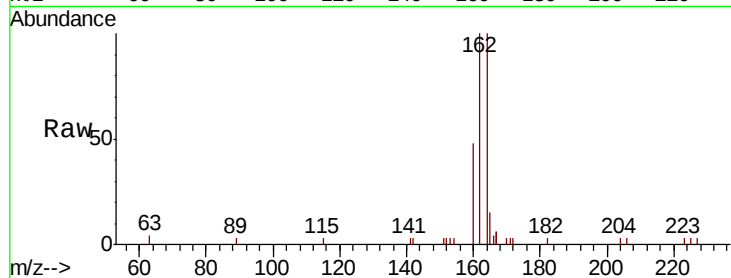




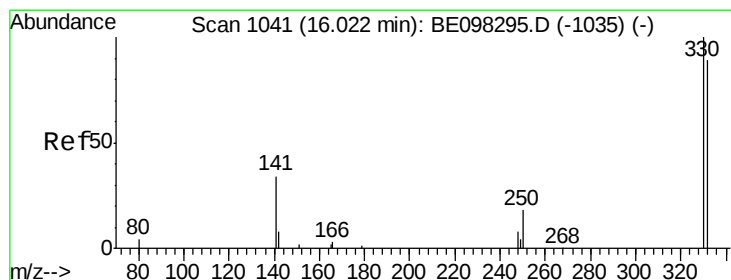
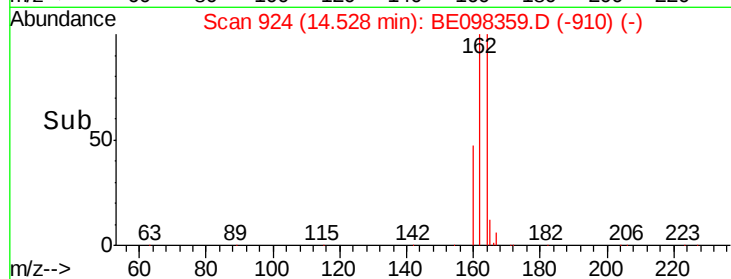
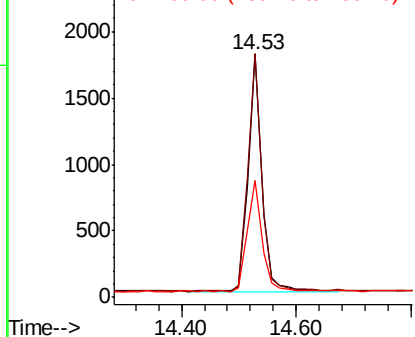
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.53 min Scan# 924
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 2954
Ion Ratio Lower Upper
164 100
162 100.1 77.6 116.4
160 48.2 36.0 54.0

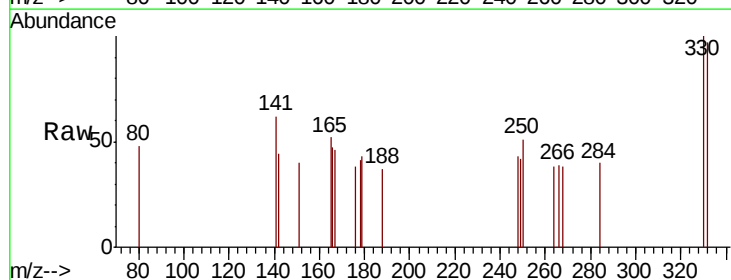


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

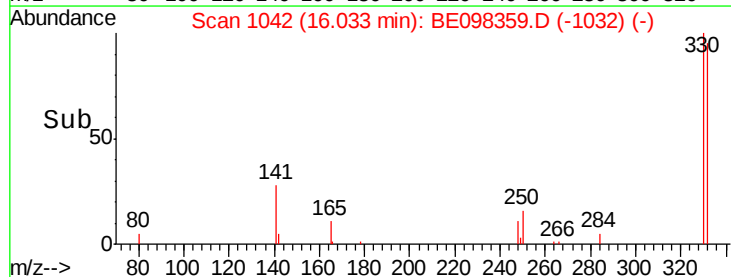
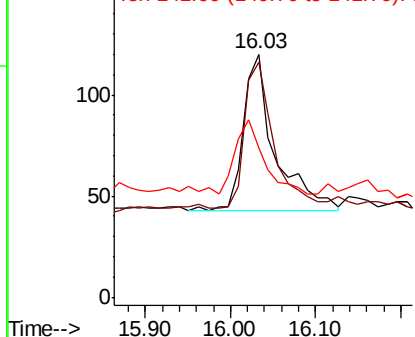


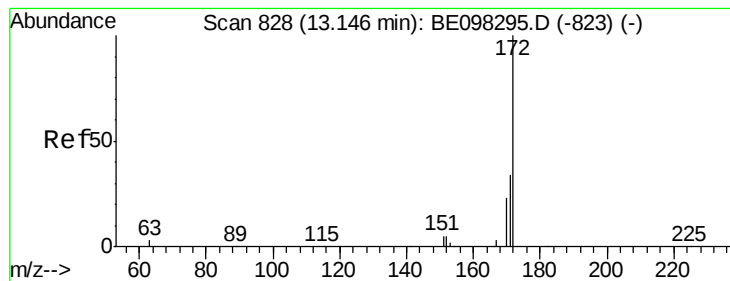
#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 16.03 min Scan# 1042
Delta R.T. 0.01 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion:330 Resp: 199
Ion Ratio Lower Upper
330 100
332 86.9 76.2 114.4
141 42.7 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

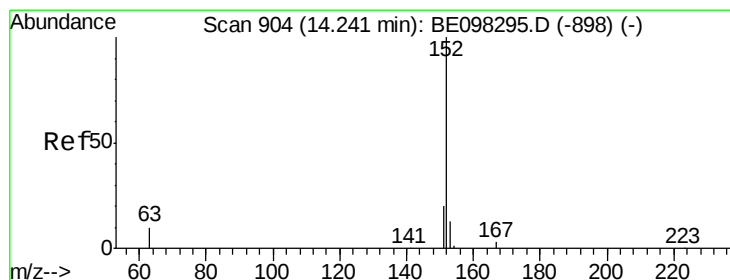
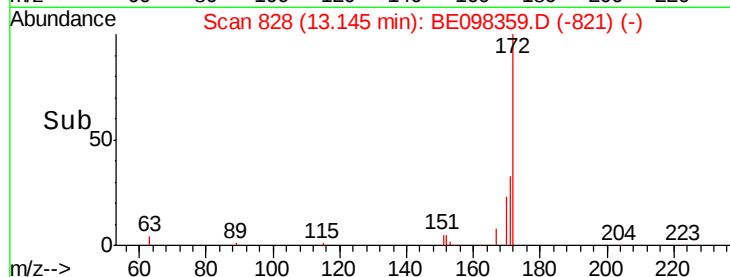
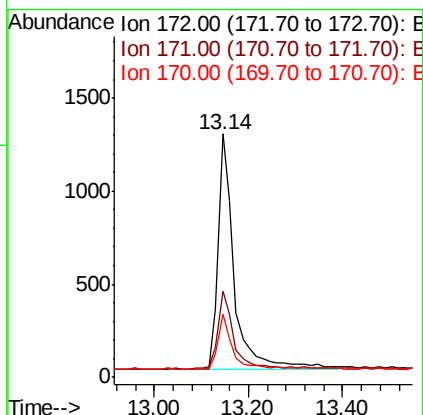
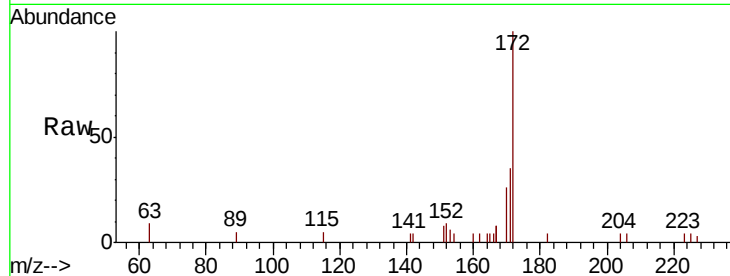




#15
2-Fluorobiphenyl
Concen: 0.240 ng
RT: 13.14 min Scan# 828
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

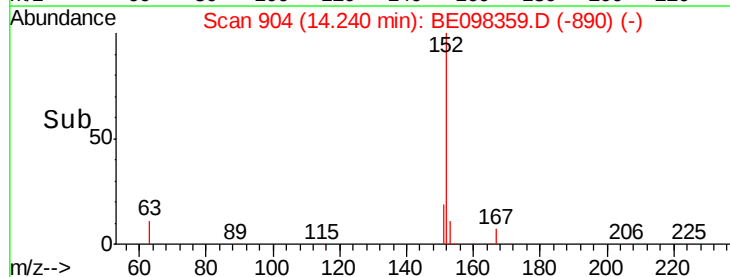
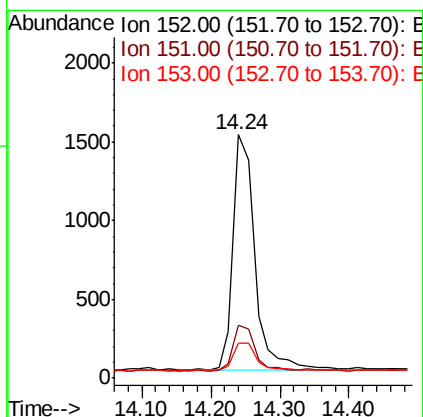
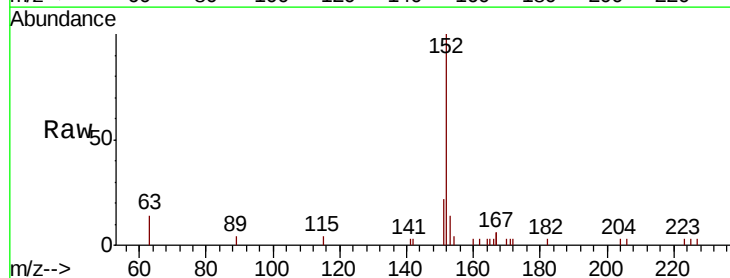
Instrument :
BNA_E
ClientSampleId :

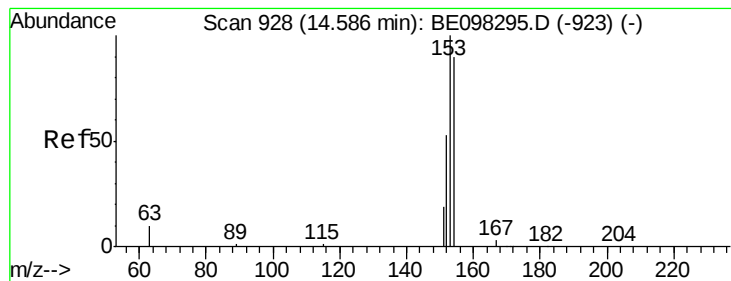
Tot Ion:172 Resp: 2990
Ion Ratio Lower Upper
172 100
171 35.4 27.5 41.3
170 26.2 19.6 29.4



#16
Acenaphthylene
Concen: 0.236 ng
RT: 14.24 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion:152 Resp: 3272
Ion Ratio Lower Upper
152 100
151 20.4 15.5 23.3
153 13.5 10.6 16.0





#17

Acenaphthene

Concen: 0.221 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

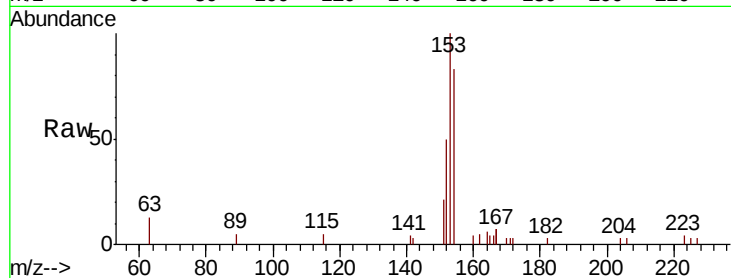
Tot Ion:154 Resp: 1839

Ion Ratio Lower Upper

154 100

153 118.5 91.8 137.6

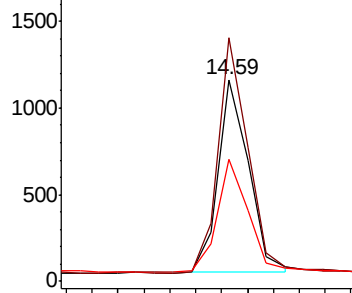
152 59.2 45.5 68.3



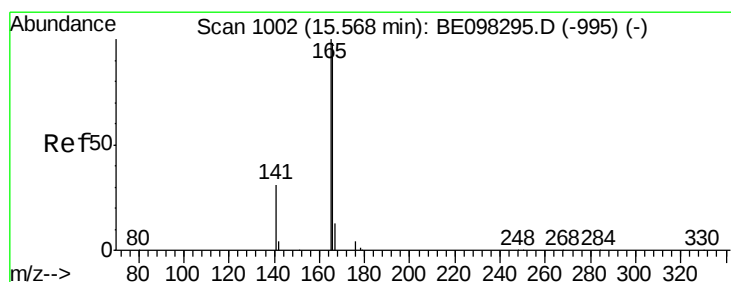
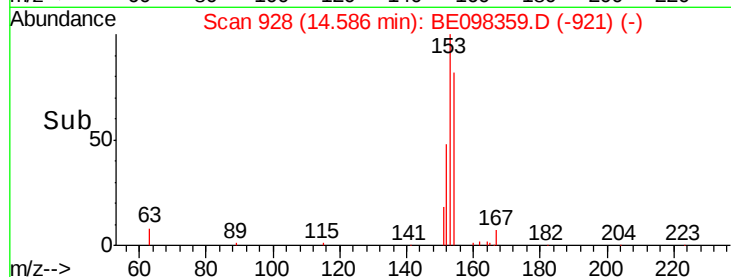
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#18

Fluorene

Concen: 0.223 ng

RT: 15.57 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

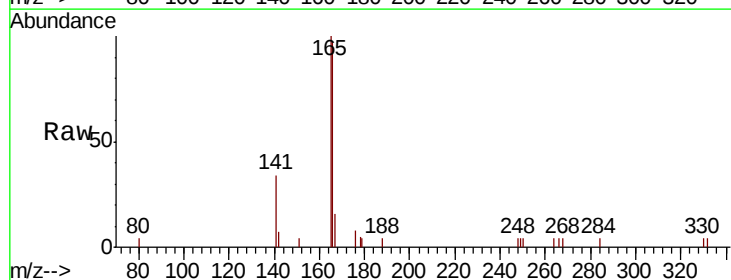
Tgt Ion:166 Resp: 2479

Ion Ratio Lower Upper

166 100

165 99.2 79.3 118.9

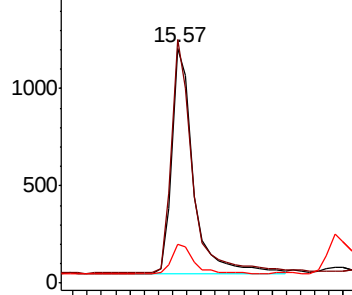
167 13.4 11.3 16.9



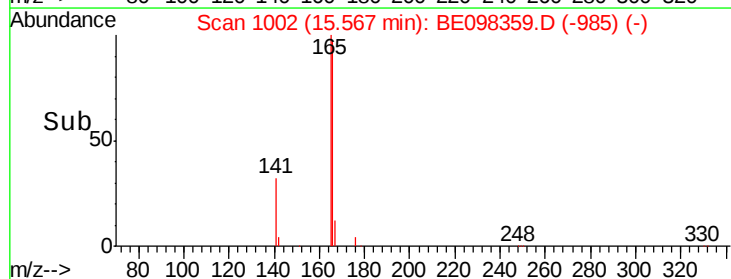
Abundance Ion 166.00 (165.70 to 166.70): E

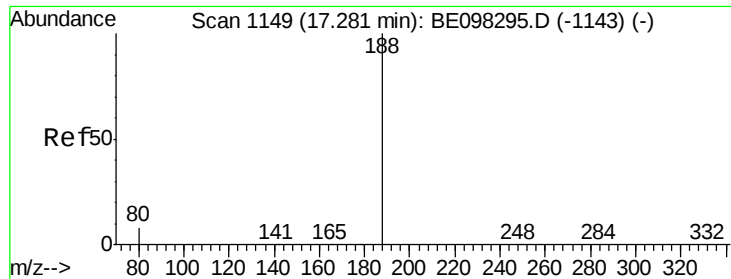
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

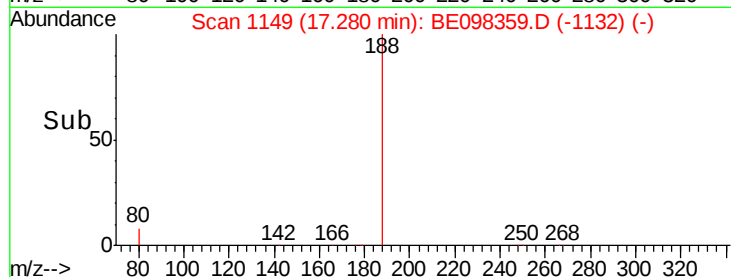
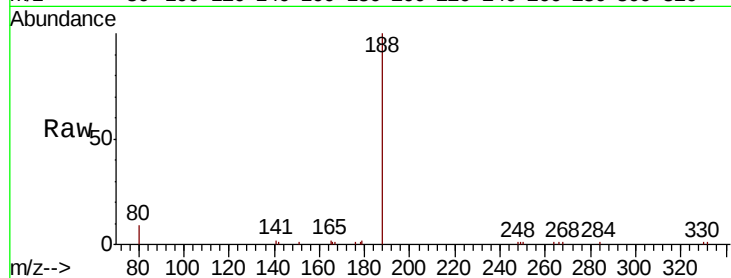
Tot Ion:188 Resp: 7714

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

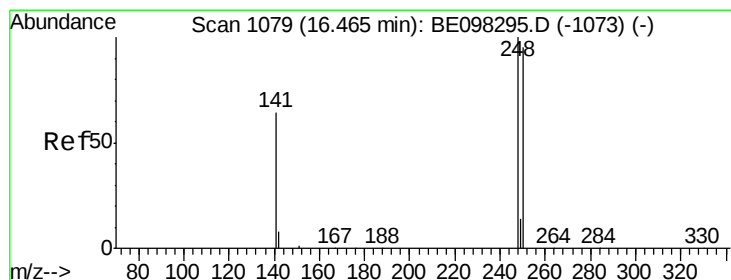
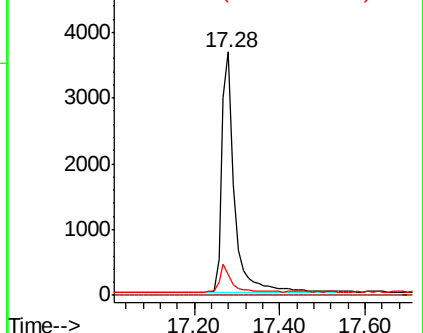
80 8.8 7.2 10.8



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



#20

4-Bromophenyl-phenylether

Concen: 0.197 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

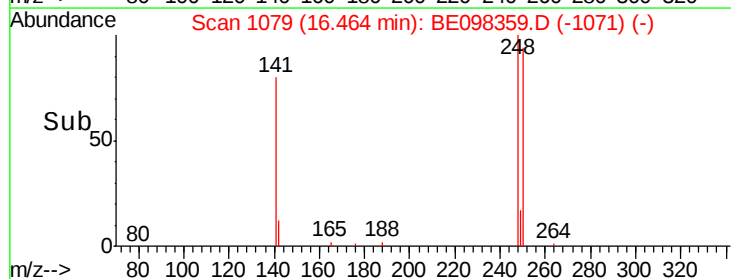
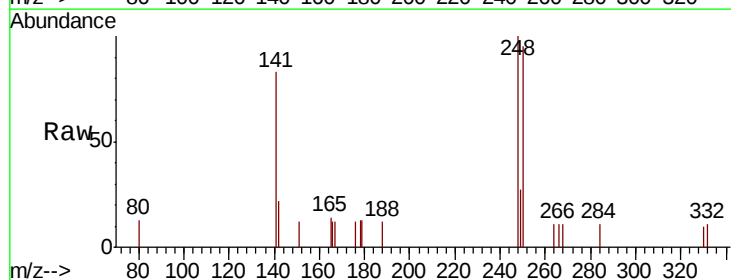
Tgt Ion:248 Resp: 820

Ion Ratio Lower Upper

248 100

250 94.7 71.0 106.6

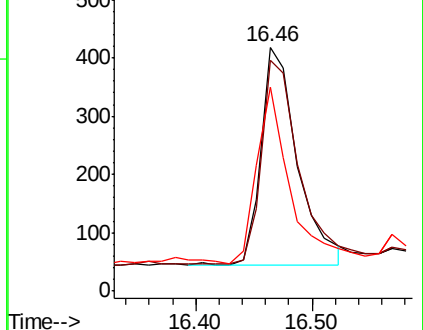
141 83.5 62.1 93.1



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

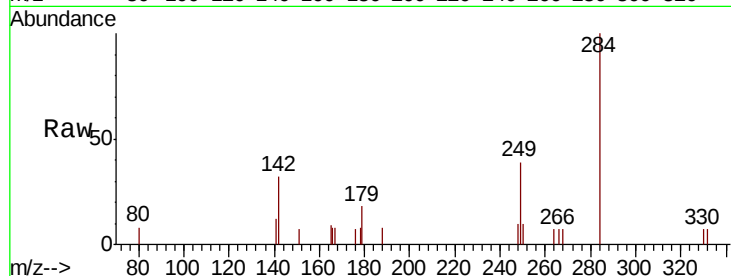




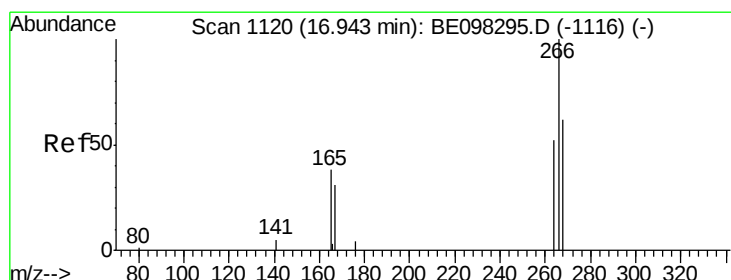
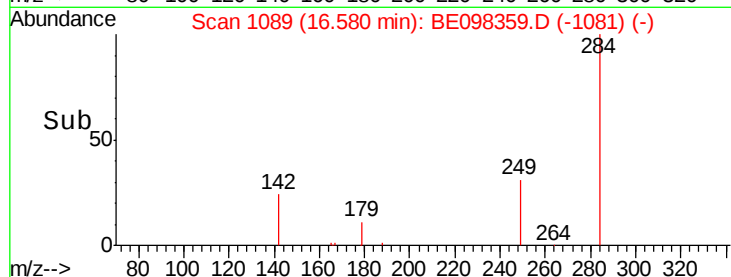
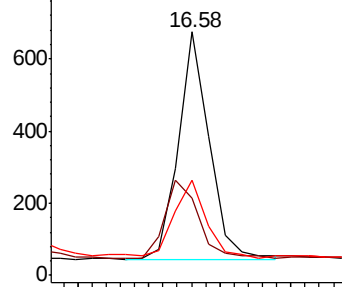
#21
Hexachlorobenzene
Concen: 0.214 ng
RT: 16.58 min Scan# 1089
Delta R.T. -0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
284	100		
142	36.3	26.3	39.5
249	35.3	26.0	39.0

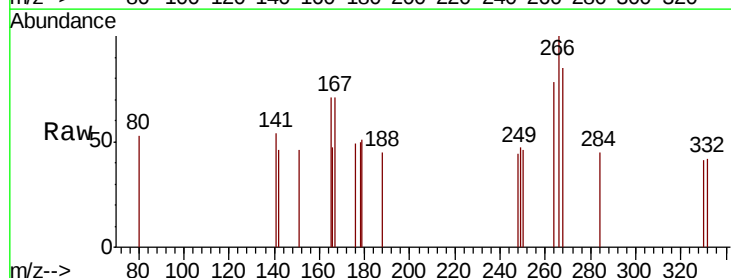


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

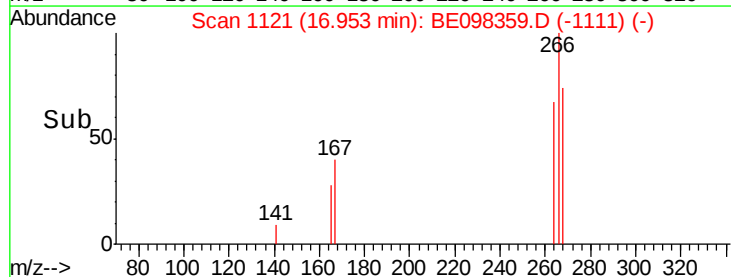
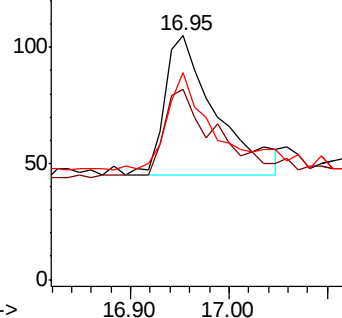


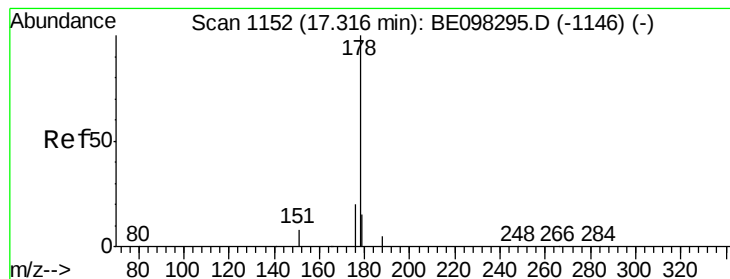
#22
Pentachlorophenol
Concen: 0.314 ng
RT: 16.95 min Scan# 1121
Delta R.T. 0.01 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion	Ratio	Lower	Upper
266	100		
264	78.1	59.0	88.4
268	84.8	55.1	82.7



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: 0.225 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

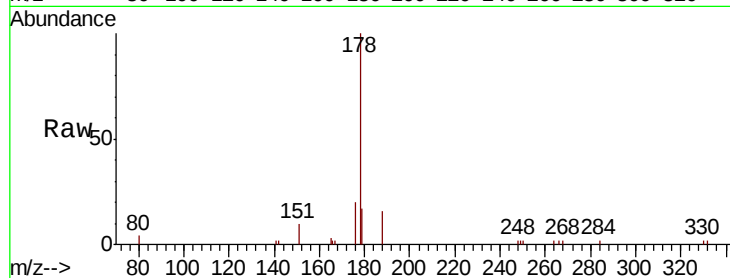
Tot Ion:178 Resp: 4223

Ion Ratio Lower Upper

178 100

176 19.1 15.9 23.9

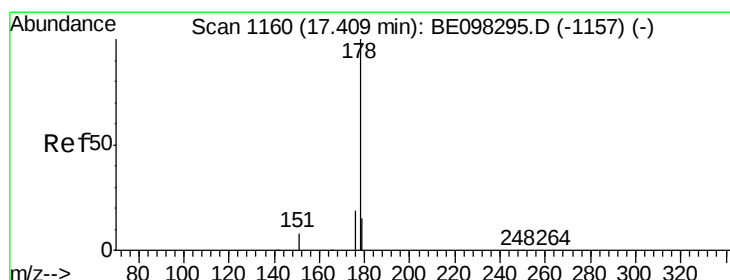
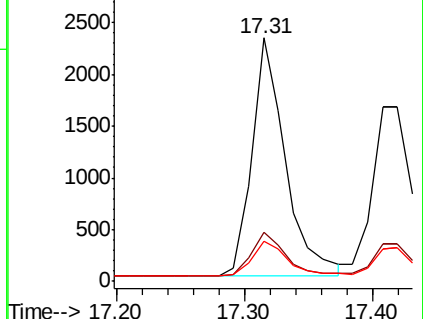
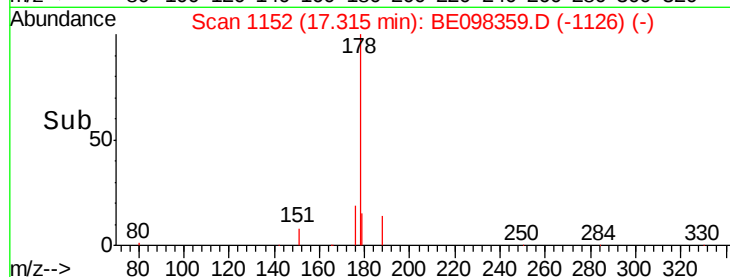
179 15.4 12.3 18.5



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



#24

Anthracene

Concen: 0.209 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.01 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

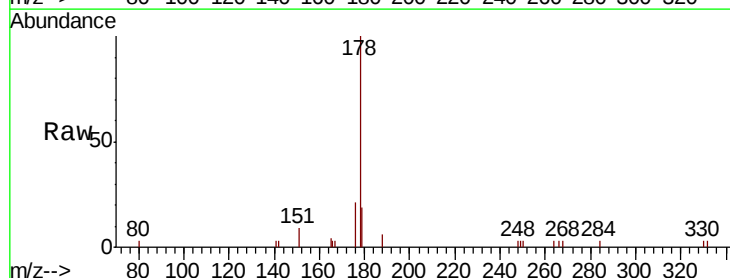
Tgt Ion:178 Resp: 3495

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.4

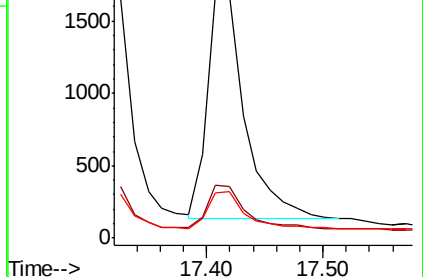
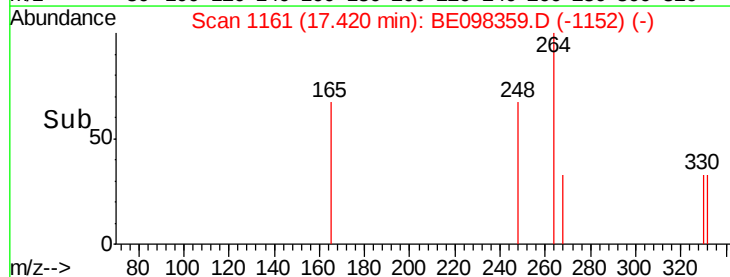
179 17.1 12.3 18.5



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

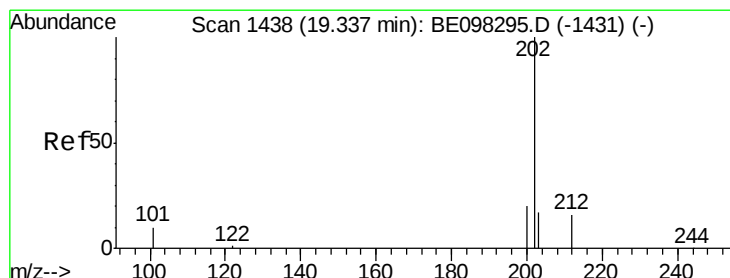
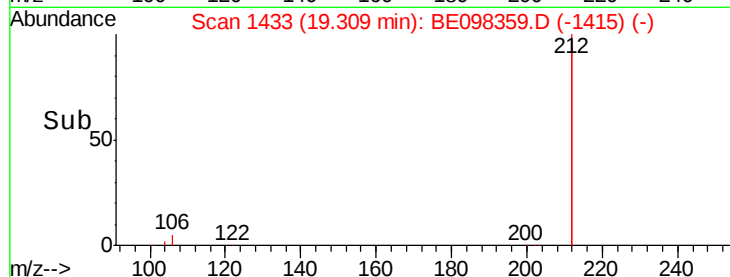
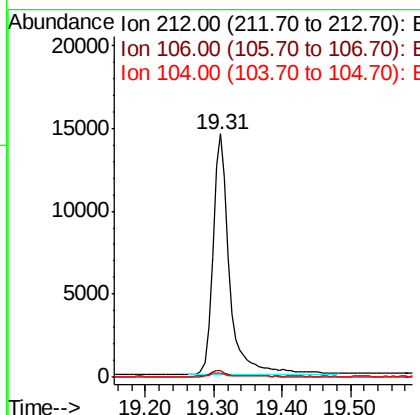
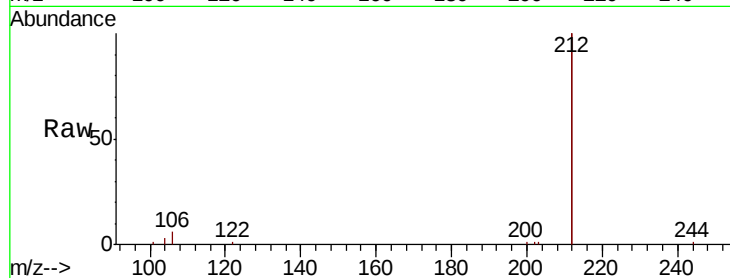




#25
 Fluoranthene-d10
 Concen: 0.249 ng
 RT: 19.31 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

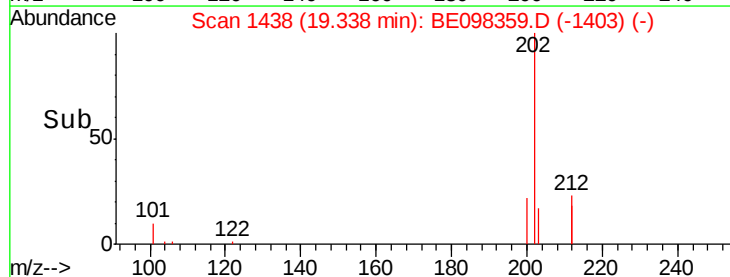
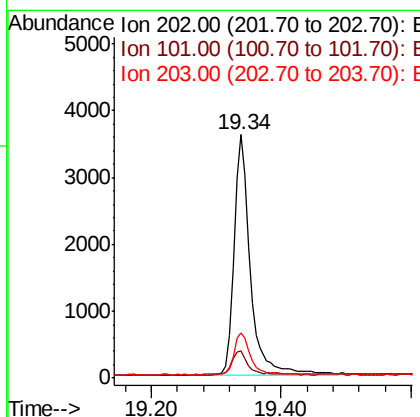
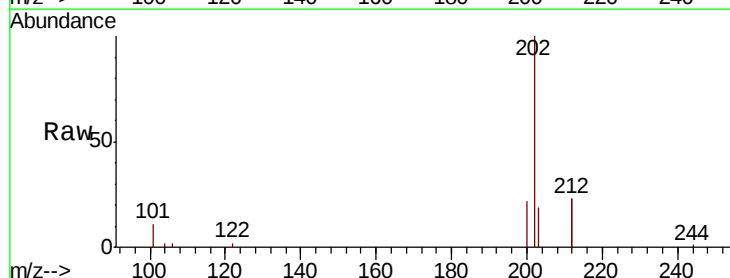
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:212 Resp: 24630
 Ion Ratio Lower Upper
 212 100
 106 2.6 2.2 3.2
 104 1.4 1.3 1.9



#26
 Fluoranthene
 Concen: 0.246 ng
 RT: 19.34 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BE098359.D
 Acq: 12 Dec 2018 9:58

Tgt Ion:202 Resp: 6106
 Ion Ratio Lower Upper
 202 100
 101 9.7 8.0 12.0
 203 17.4 13.8 20.6

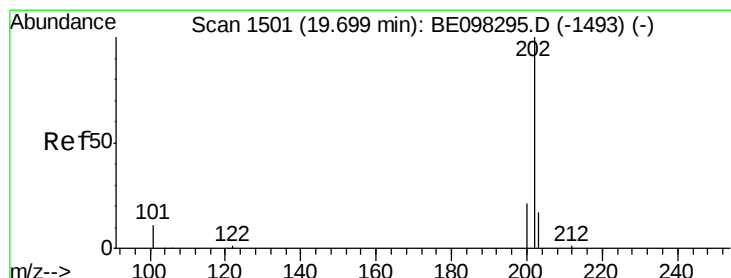
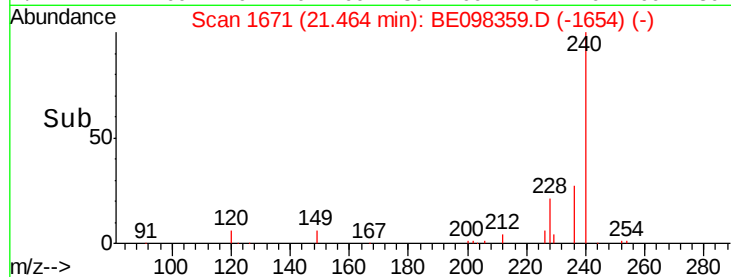
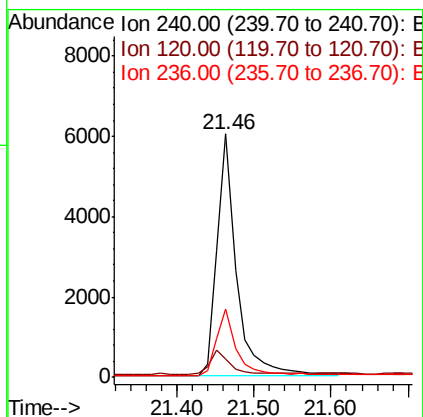
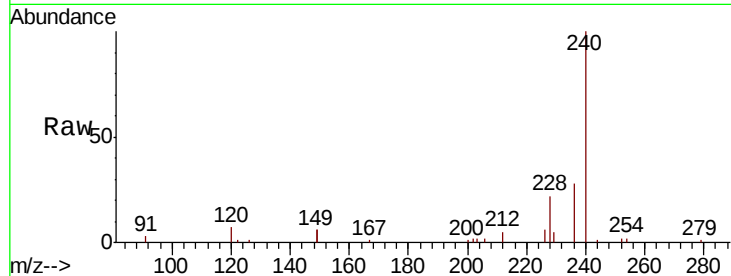




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.46 min Scan# 1671
Delta R.T. 0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

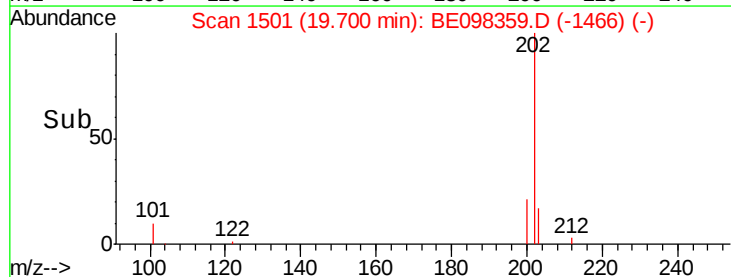
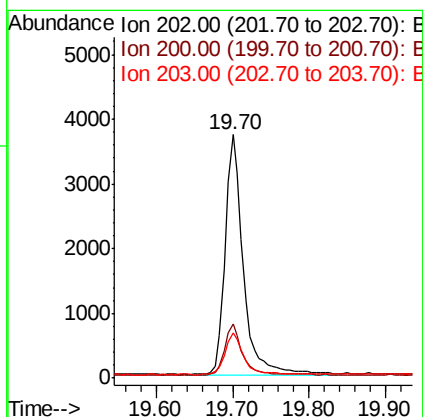
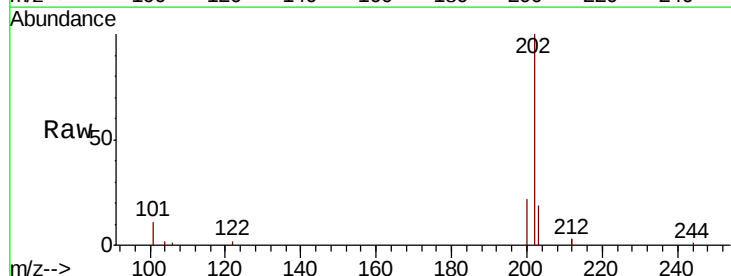
Instrument :
BNA_E
ClientSampleId :

Tot Ion:240 Resp: 10489
Ion Ratio Lower Upper
240 100
120 7.4 9.5 14.3#
236 27.8 22.7 34.1



#28
Pyrene
Concen: 0.188 ng
RT: 19.70 min Scan# 1501
Delta R.T. 0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion:202 Resp: 6183
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.8 14.1 21.1





#29

Terphenyl-d14

Concen: 0.185 ng

RT: 19.91 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

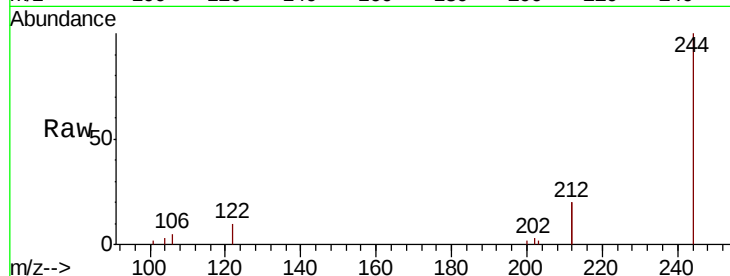
Tot Ion:244 Resp: 4712

Ion Ratio Lower Upper

244 100

212 39.1 27.4 41.0

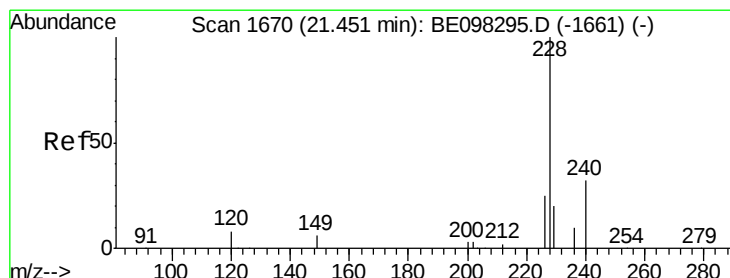
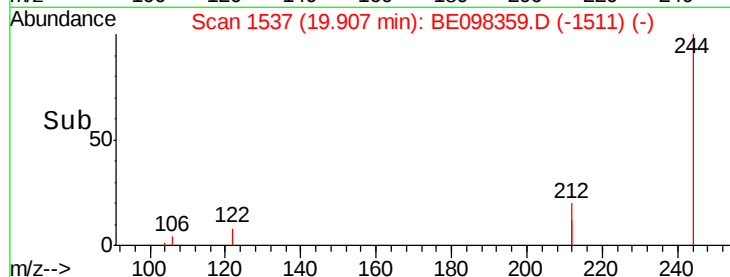
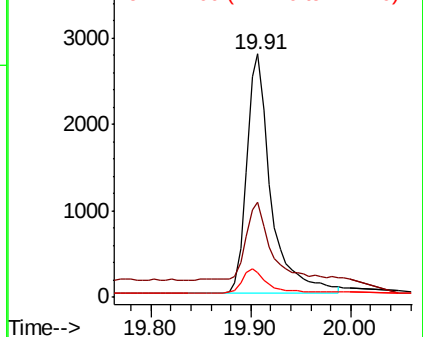
122 10.1 8.3 12.5



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: 0.227 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

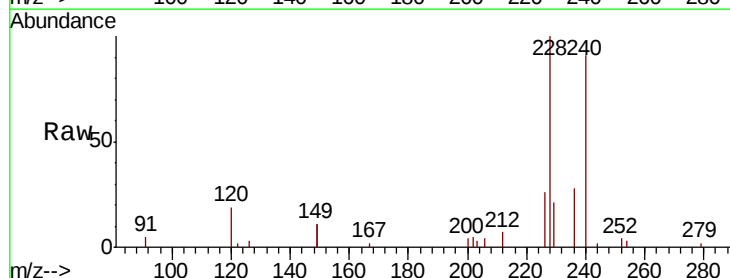
Tgt Ion:228 Resp: 6793

Ion Ratio Lower Upper

228 100

226 26.4 21.8 32.8

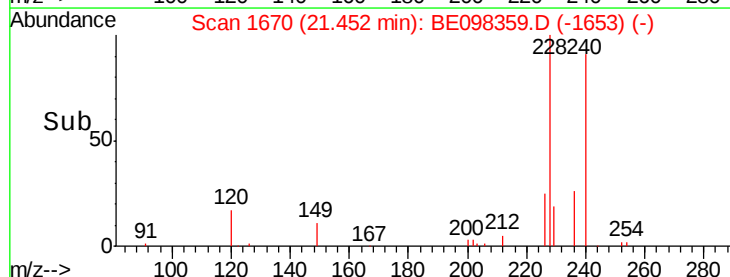
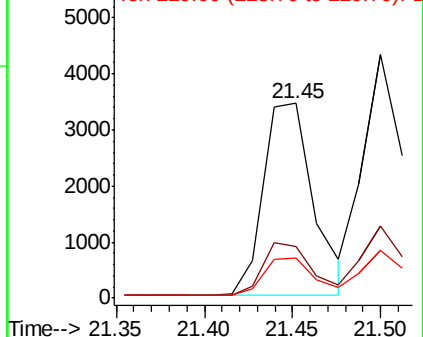
229 20.6 16.3 24.5



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: 0.232 ng

RT: 21.50 min Scan# 1674

Delta R.T. 0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

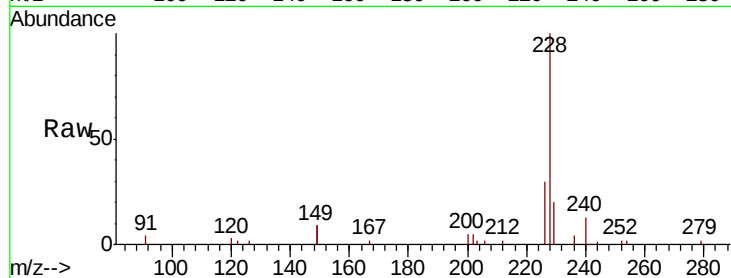
Tot Ion:228 Resp: 7262

Ion Ratio Lower Upper

228 100

226 29.7 23.4 35.0

229 19.7 16.2 24.4

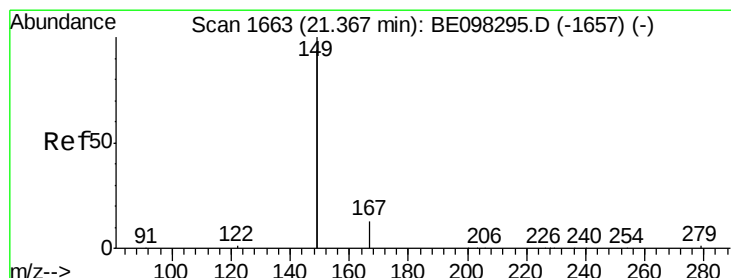
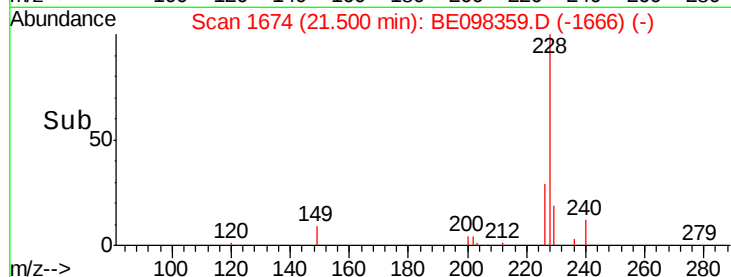
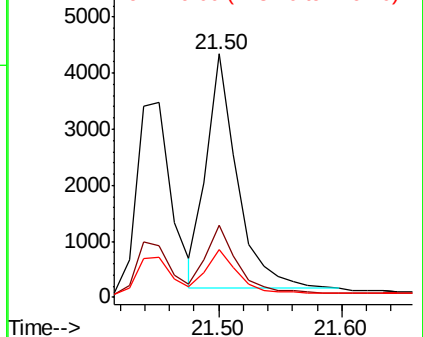


Abundance

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: 0.185 ng

RT: 21.37 min Scan# 1663

Delta R.T. 0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

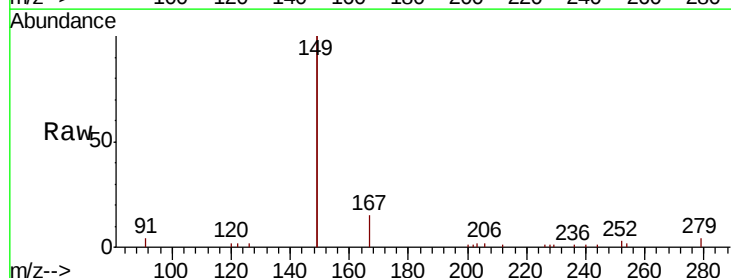
Tgt Ion:149 Resp: 11247

Ion Ratio Lower Upper

149 100

167 6.9 5.7 8.5

279 1.2 1.0 1.4

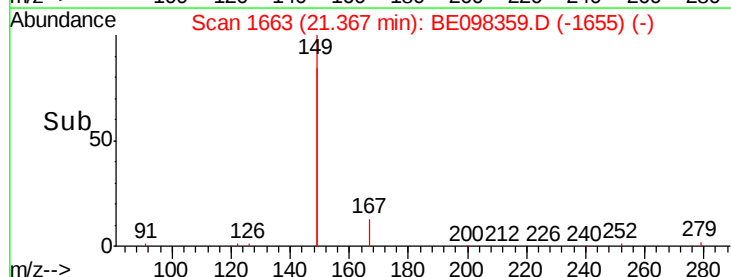
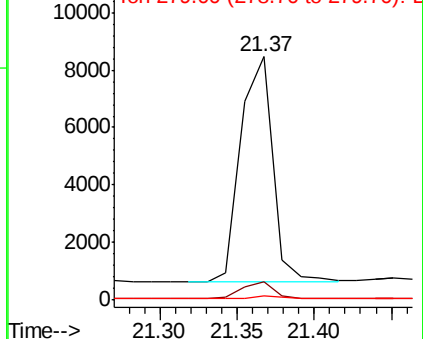


Abundance

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

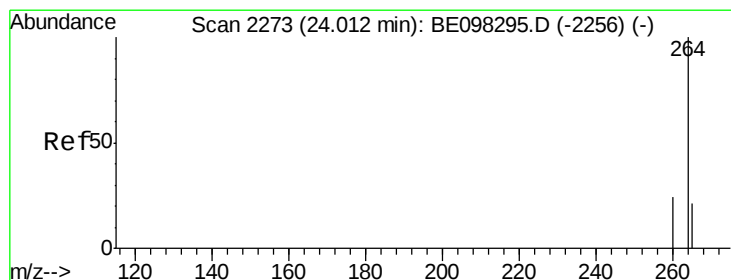
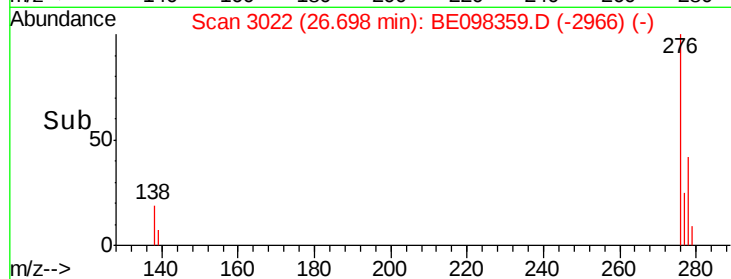
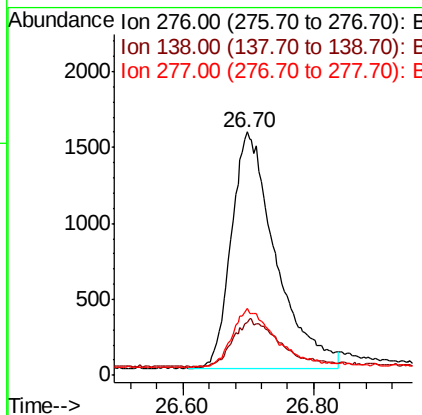
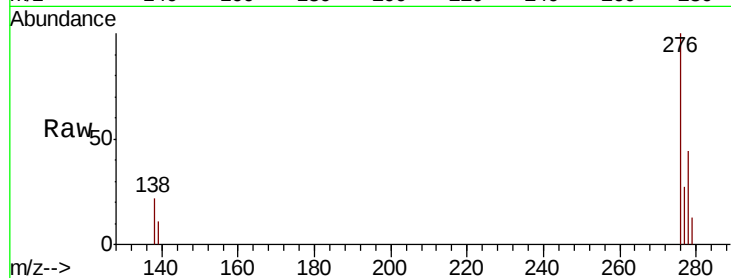




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.235 ng
RT: 26.70 min Scan# 3022
Delta R.T. 0.00 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

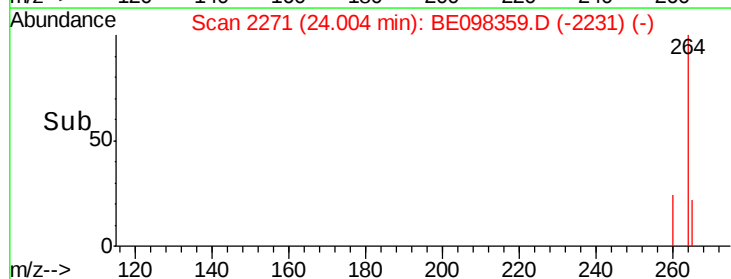
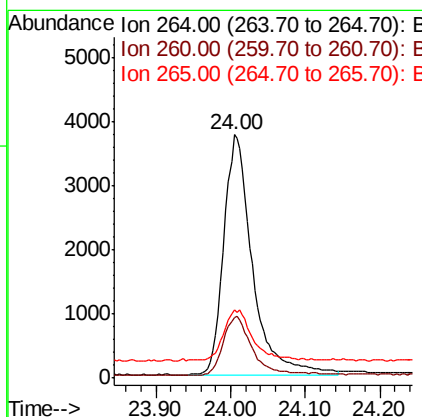
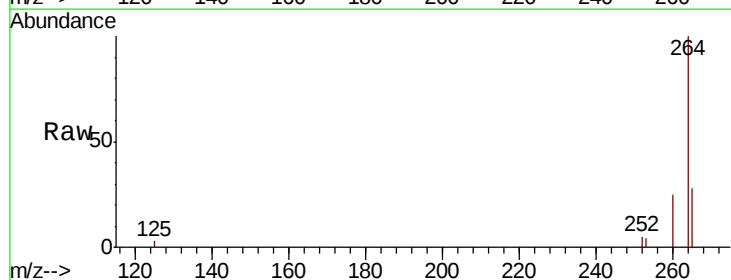
Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 7319
Ion Ratio Lower Upper
276 100
138 20.7 16.3 24.5
277 24.7 20.2 30.4



#34
Perylene-d12
Concen: 0.400 ng
RT: 24.00 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BE098359.D
Acq: 12 Dec 2018 9:58

Tgt Ion:264 Resp: 9958
Ion Ratio Lower Upper
264 100
260 25.1 20.2 30.2
265 28.3 25.2 37.8





#35

Benzo(b)fluoranthene

Concen: 0.226 ng

RT: 23.23 min Scan# 2053

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

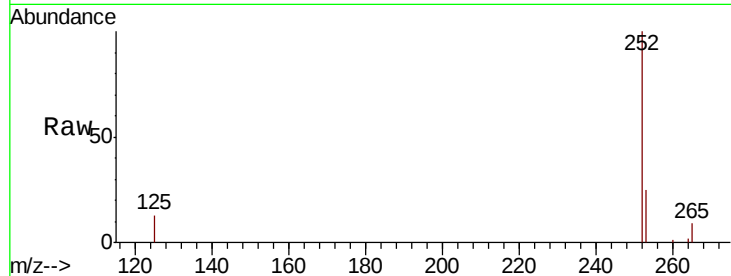
Tot Ion:252 Resp: 6166

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

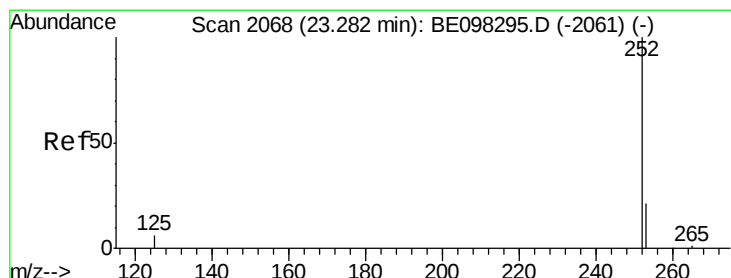
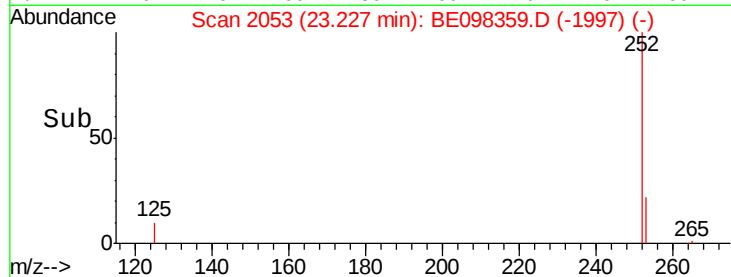
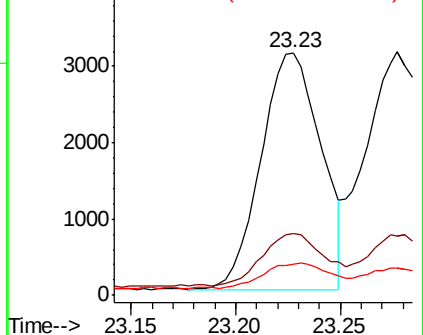
125 12.6 9.6 14.4



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: 0.243 ng

RT: 23.28 min Scan# 2067

Delta R.T. -0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

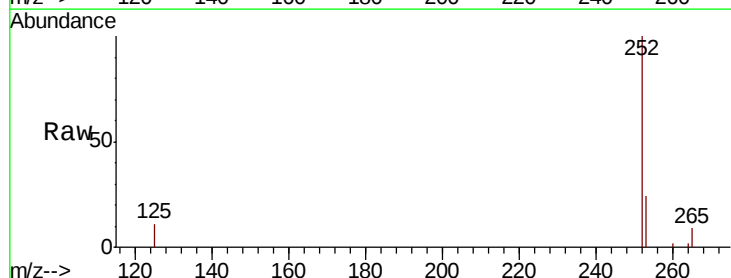
Tgt Ion:252 Resp: 7715

Ion Ratio Lower Upper

252 100

253 24.3 19.0 28.6

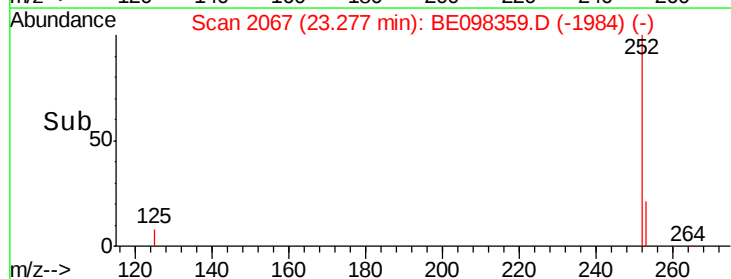
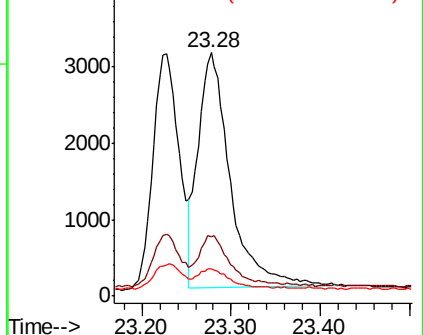
125 11.0 9.1 13.7



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: 0.244 ng

RT: 23.89 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :

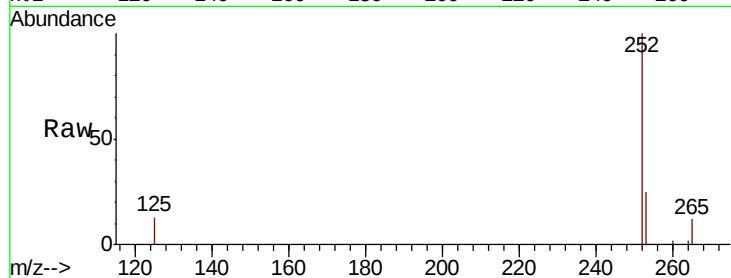
Tot Ion:252 Resp: 6867

Ion Ratio Lower Upper

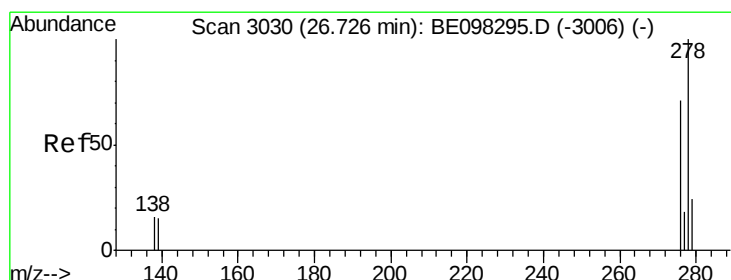
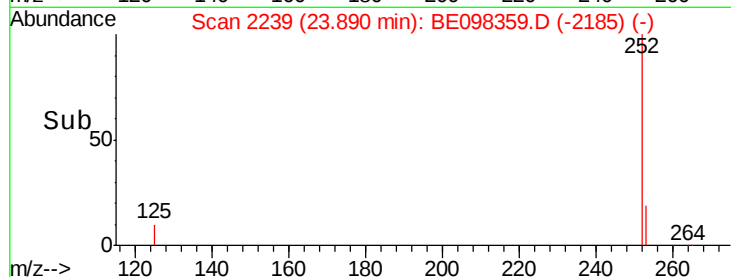
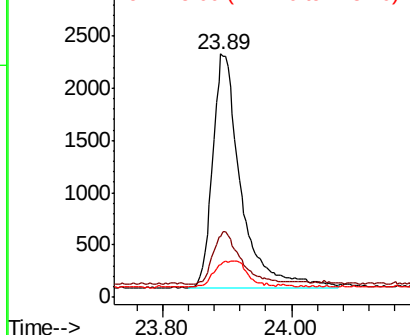
252 100

253 24.7 20.6 30.8

125 13.3 10.5 15.7



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: 0.216 ng

RT: 26.73 min Scan# 3030

Delta R.T. 0.00 min

Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

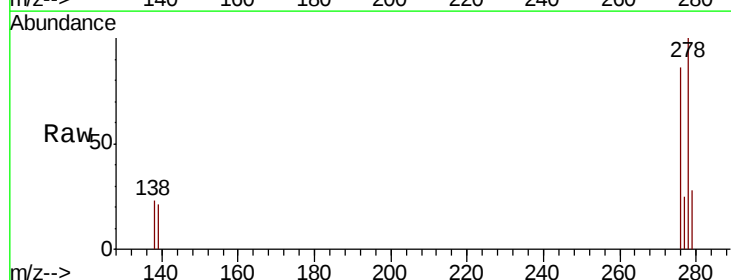
Tgt Ion:278 Resp: 5714

Ion Ratio Lower Upper

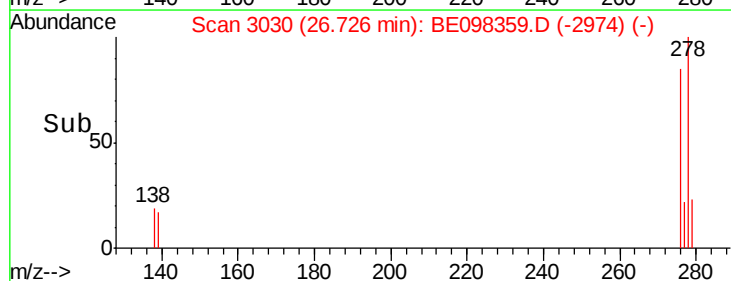
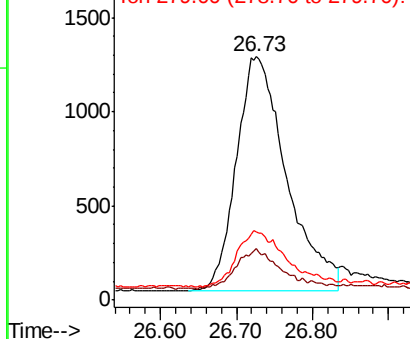
278 100

139 21.0 14.5 21.7

279 28.2 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(a,h,i)perylene

Concen: 0.241 ng

RT: 27.52 min Scan# 3252

Delta R.T. -0.00 min

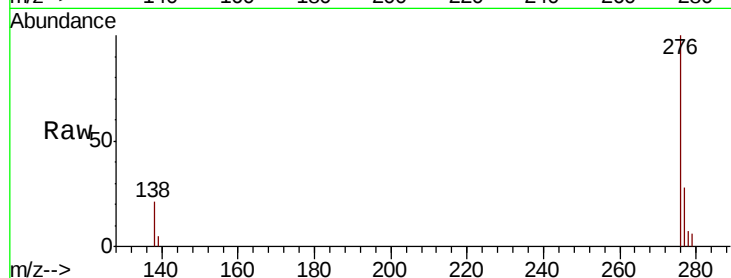
Lab File: BE098359.D

Acq: 12 Dec 2018 9:58

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 6420

Ion Ratio Lower Upper

276 100

277 27.6 20.8 31.2

138 21.0 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

