

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE122118\
 Data File : BE098548.D
 Acq On : 21 Dec 2018 10:58
 Operator : SJ/JU
 Sample : PB115688BS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 21 15:28:23 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	491	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	2254	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	1789	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	6362	0.40	ng	-0.01
27) Chrysene-d12	21.45	240	10054	0.40	ng	-0.01
34) Perylene-d12	23.99	264	8305	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	414	0.36	ng	0.00
5) Phenol-d6	7.06	99	560	0.34	ng	0.00
8) Nitrobenzene-d5	9.04	82	515	0.25	ng	0.03
11) 2-Methylnaphthalene-d10	12.27	152	1297	0.35	ng	0.00
14) 2,4,6-Tribromophenol	16.02	330	244	0.37	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	1801	0.24	ng	0.00
25) Fluoranthene-d10	19.30	212	28368	0.35	ng	0.00
29) Terphenyl-d14	19.89	244	6041	0.25	ng	-0.01

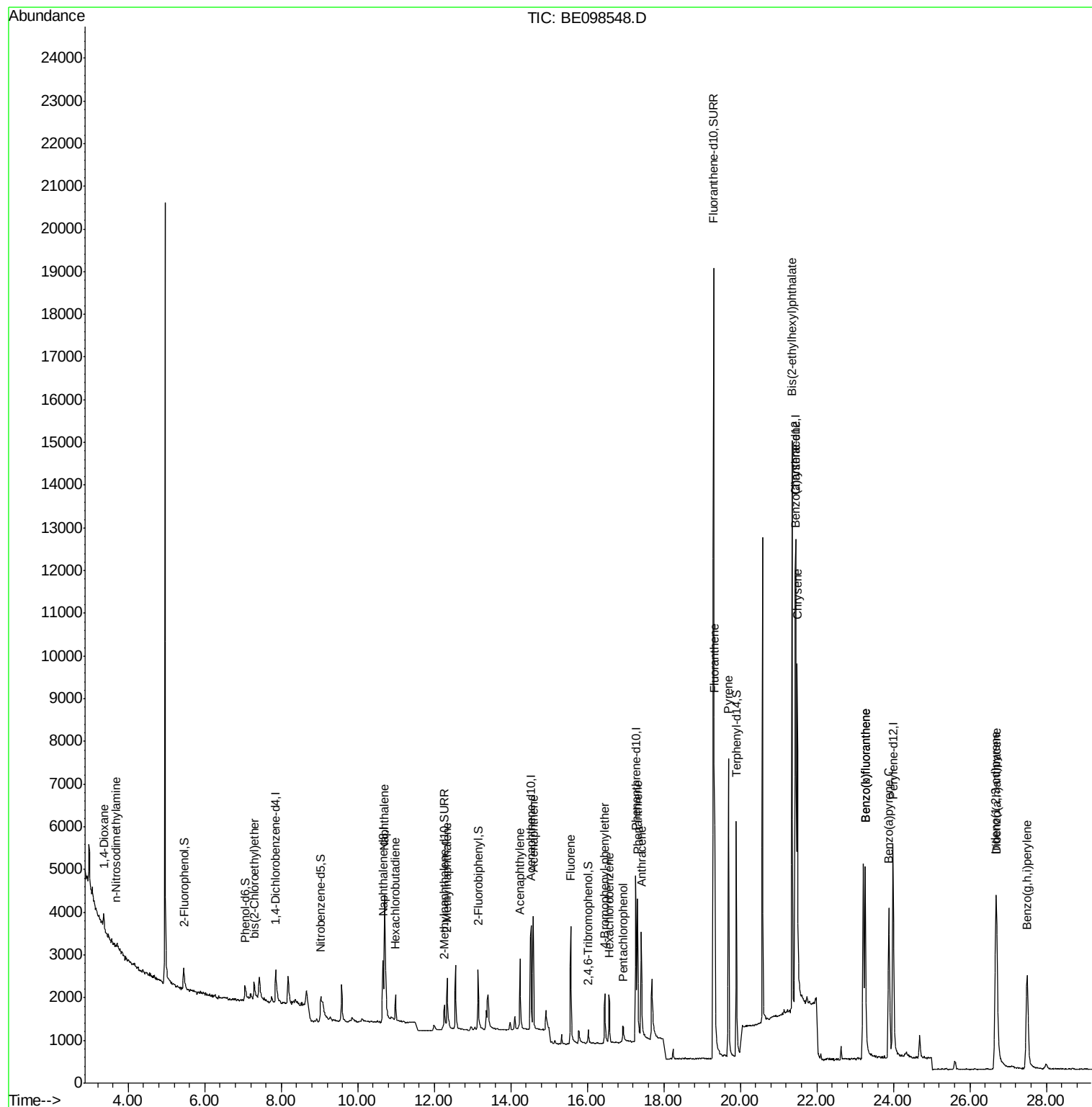
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.36	88	301	0.354	ng	# 70
3) n-Nitrosodimethylamine	3.69	42	190	0.249	ng	# 100
6) bis(2-Chloroethyl)ether	7.30	93	309	0.200	ng	97
9) Naphthalene	10.71	128	6563	0.289	ng	# 96
10) Hexachlorobutadiene	10.99	225	446	0.309	ng	96
12) 2-Methylnaphthalene	12.34	142	1079	0.293	ng	# 92
16) Acenaphthylene	14.24	152	2115	0.252	ng	99
17) Acenaphthene	14.59	154	1318	0.262	ng	96
18) Fluorene	15.57	166	2006	0.298	ng	98
20) 4-Bromophenyl-phenylether	16.46	248	741	0.216	ng	# 79
21) Hexachlorobenzene	16.58	284	941	0.256	ng	95
22) Pentachlorophenol	16.94	266	343	0.549	ng	95
23) Phenanthrene	17.31	178	4217	0.273	ng	99
24) Anthracene	17.41	178	3278	0.238	ng	98
26) Fluoranthene	19.33	202	6858	0.335	ng	97
28) Pyrene	19.69	202	7144	0.226	ng	99
30) Benzo(a)anthracene	21.44	228	7460	0.261	ng	99
31) Chrysene	21.49	228	8003	0.267	ng	97
32) Bis(2-ethylhexyl)phthalate	21.35	149	14602	0.251	ng	99
33) Indeno(1,2,3-cd)pyrene	26.68	276	7053	0.236	ng	99
35) Benzo(b)fluoranthene	23.26	252	7477	0.329	ng	98
36) Benzo(k)fluoranthene	23.26	252	7477	0.283	ng	98
37) Benzo(a)pyrene	23.88	252	6731	0.287	ng	99
38) Dibenzo(a,h)anthracene	26.70	278	5723	0.259	ng	# 95
39) Benzo(g,h,i)perylene	27.49	276	6184	0.278	ng	100

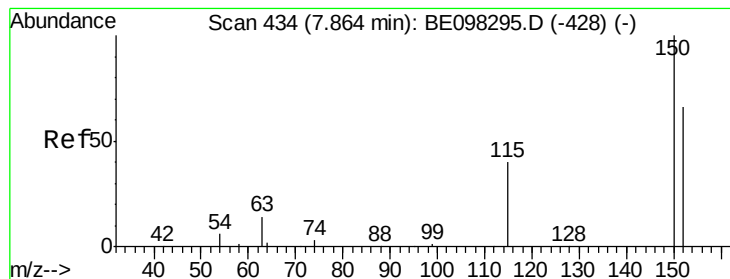
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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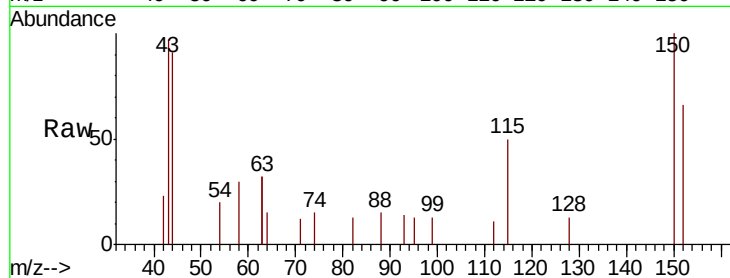


#1

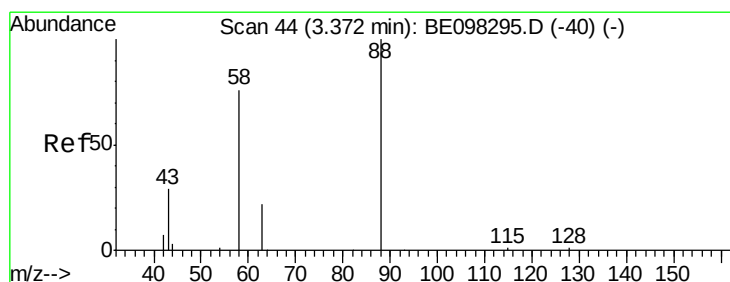
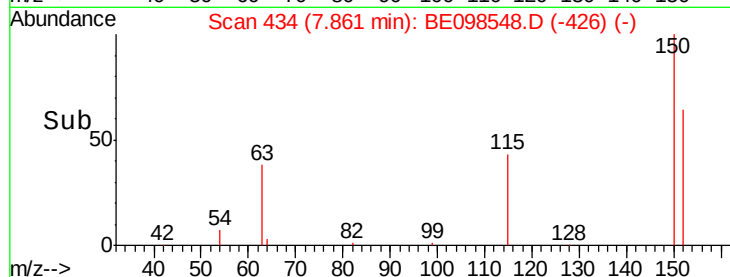
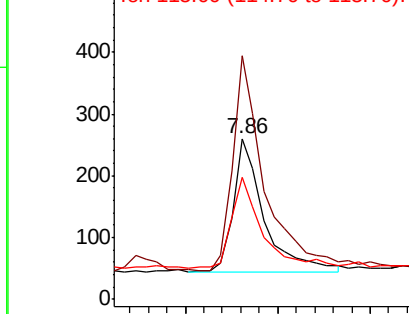
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. -0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 491
Ion Ratio Lower Upper
152 100
150 151.5 124.2 186.4
115 76.2 53.9 80.9



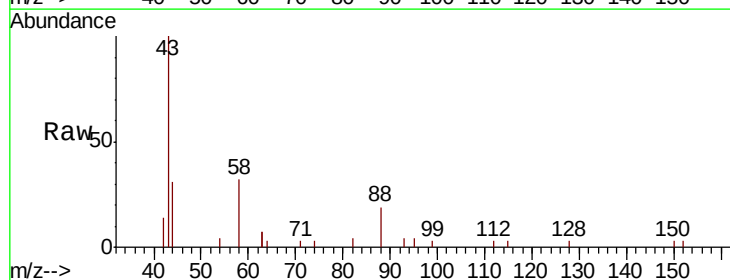
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



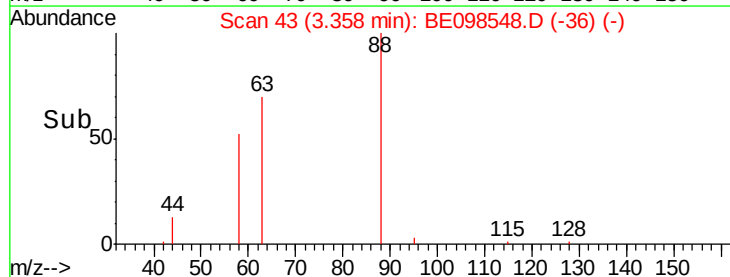
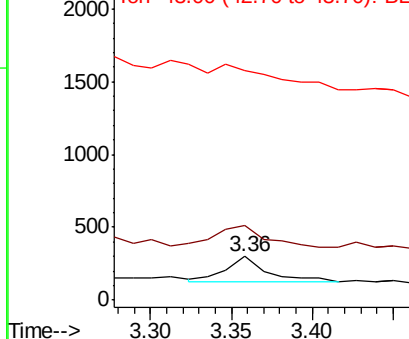
#2

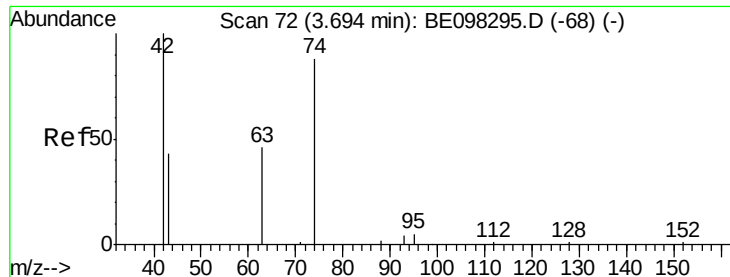
1,4-Dioxane
Concen: 0.354 ng
RT: 3.36 min Scan# 43
Delta R.T. -0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion: 88 Resp: 301
Ion Ratio Lower Upper
88 100
58 103.0 75.0 112.6
43 0.0 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



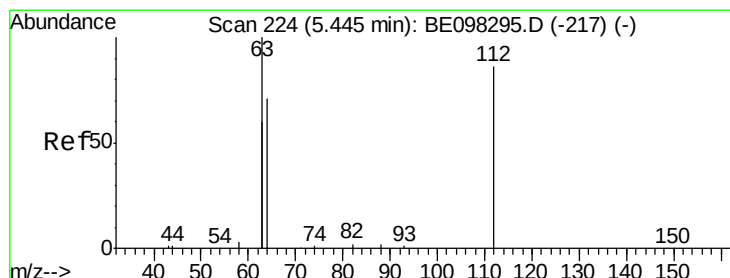
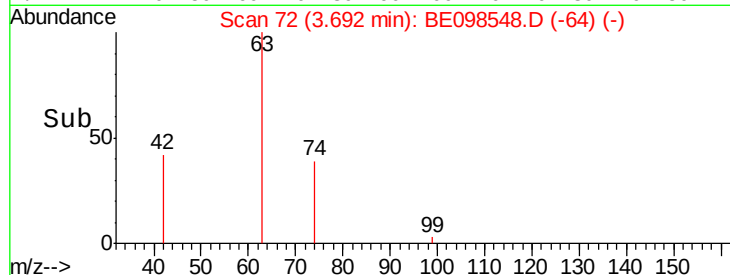
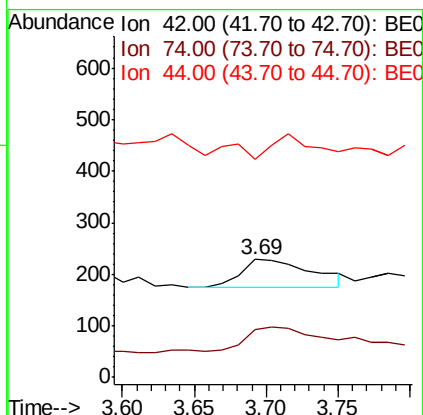
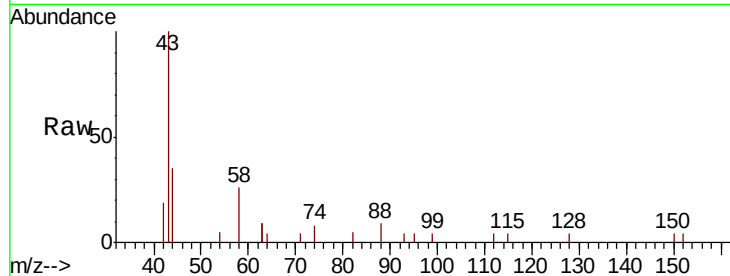


#3

n-Nitrosodimethylamine
Concen: 0.249 ng
RT: 3.69 min Scan# 72
Delta R.T. -0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Instrument :
BNA_E
ClientSampleId :

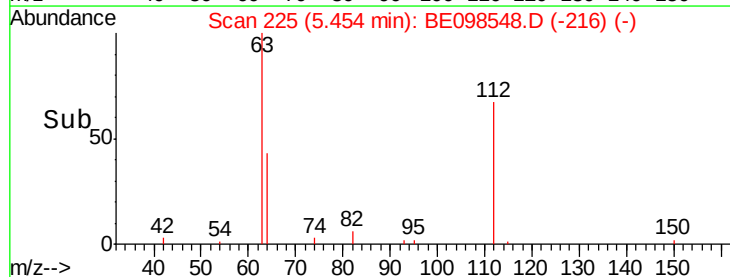
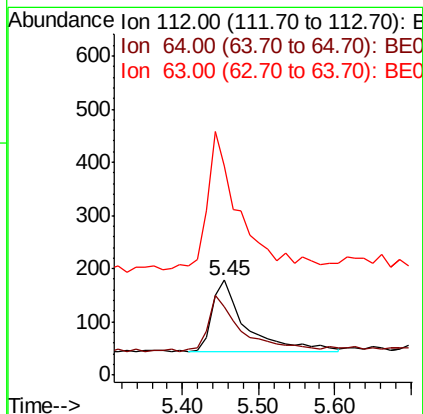
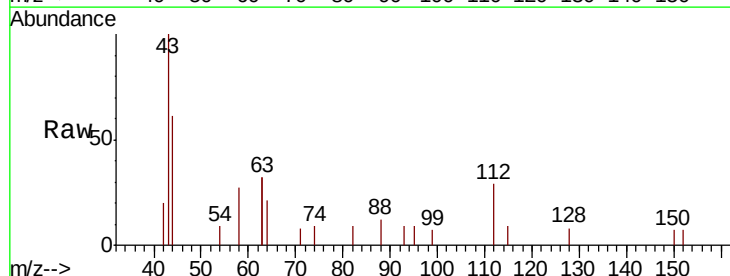
Tot Ion: 42 Resp: 190
Ion Ratio Lower Upper
42 100
74 0.0 0.0 0.0
44 20.5 0.0 0.0#

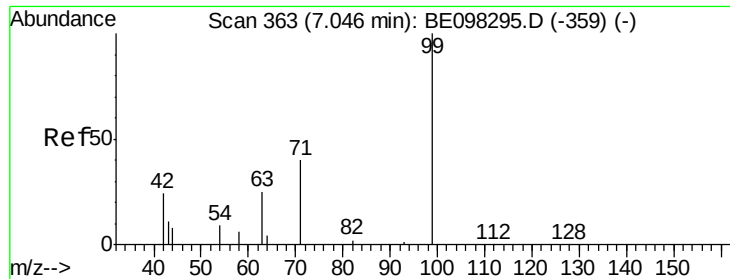


#4

2-Fluorophenol
Concen: 0.360 ng
RT: 5.45 min Scan# 225
Delta R.T. 0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion: 112 Resp: 414
Ion Ratio Lower Upper
112 100
64 78.3 59.8 89.8
63 182.4 133.7 200.5





#5

Phenol-d6

Concen: 0.344 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampled :

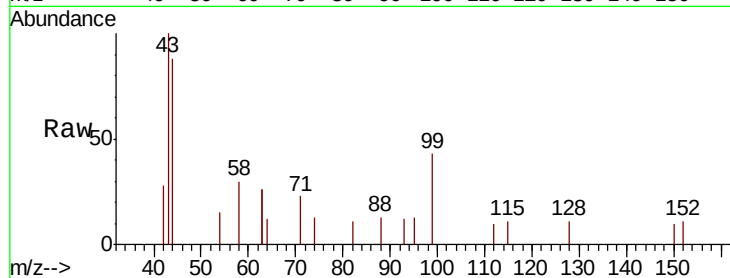
Tot Ion: 99 Resp: 560

Ion Ratio Lower Upper

99 100

42 21.4 26.3 39.5#

71 47.7 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

7.06

250

200

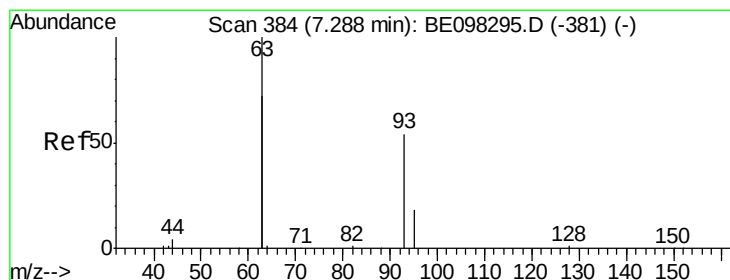
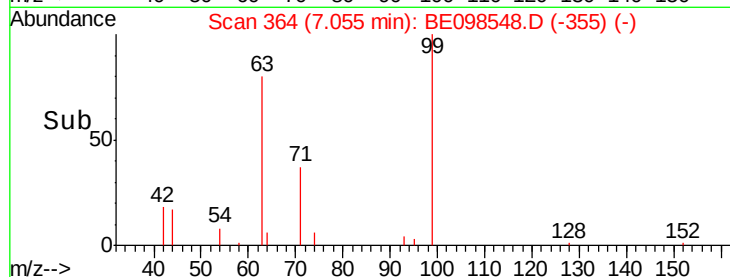
150

100

50

0

Time--> 6.90 7.00 7.10 7.20



#6

bis(2-Chloroethyl)ether

Concen: 0.200 ng

RT: 7.30 min Scan# 385

Delta R.T. 0.01 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

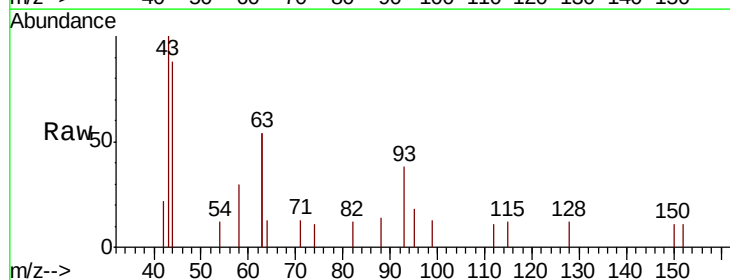
Tgt Ion: 93 Resp: 309

Ion Ratio Lower Upper

93 100

63 325.2 264.4 396.6

95 35.3 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

7.30

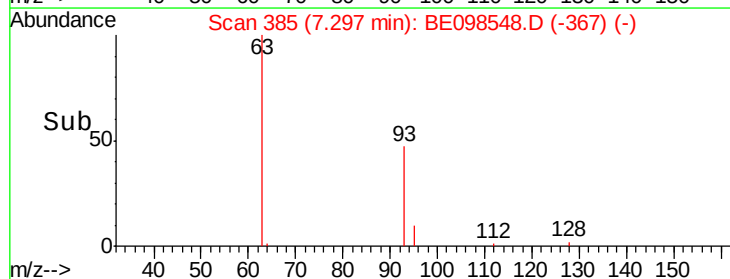
600

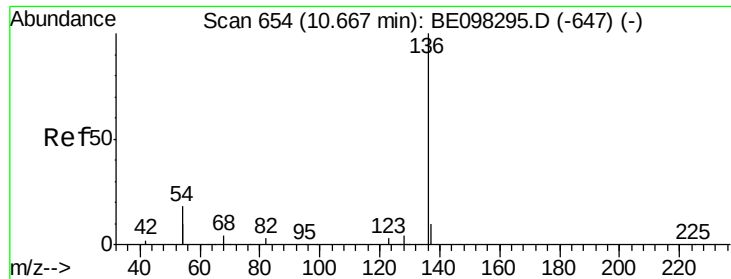
400

200

0

Time--> 7.20 7.30 7.40





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 2254

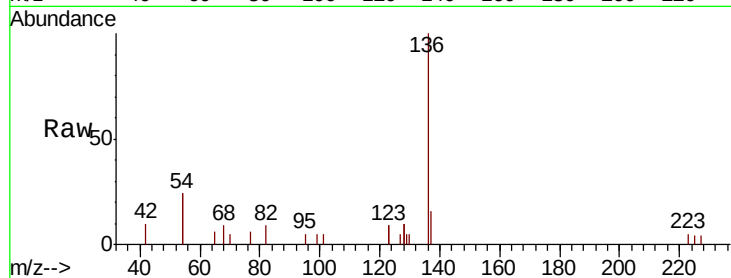
Ion Ratio Lower Upper

136 100

137 15.6 9.2 13.8#

54 48.1 28.4 42.6#

68 9.3 5.4 8.0#

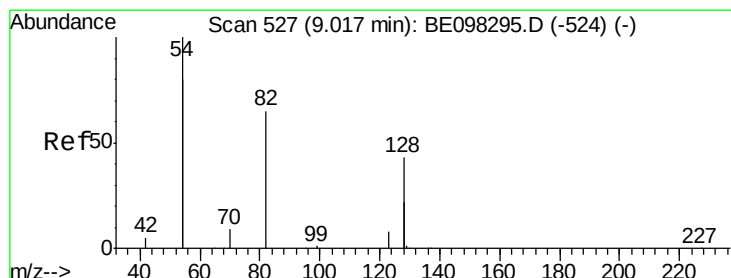
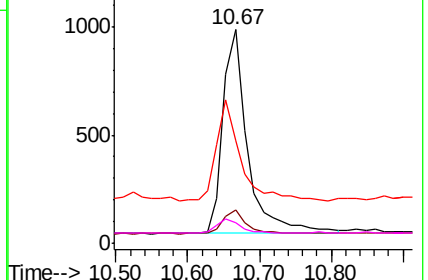
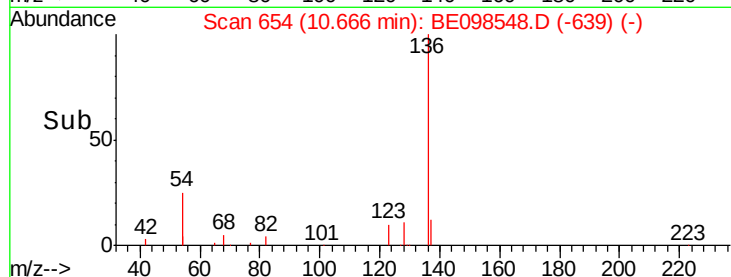


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.251 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.03 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

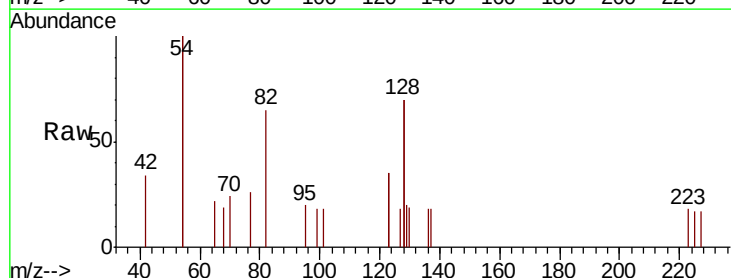
Tgt Ion: 82 Resp: 515

Ion Ratio Lower Upper

82 100

128 217.0 102.4 153.6#

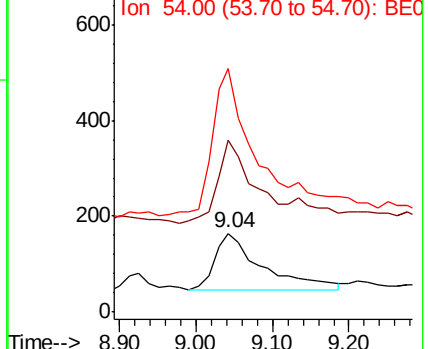
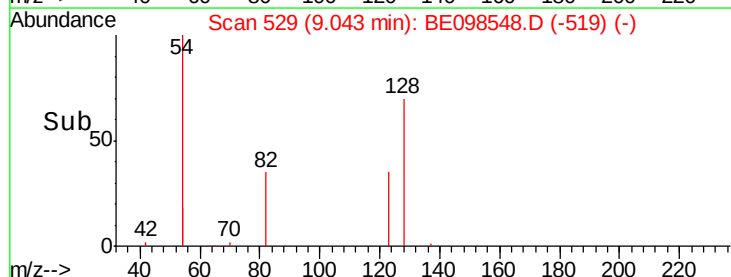
54 307.9 221.8 332.8

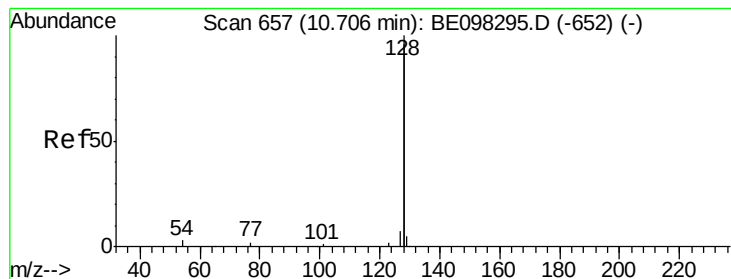


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.289 ng

RT: 10.71 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampleId :

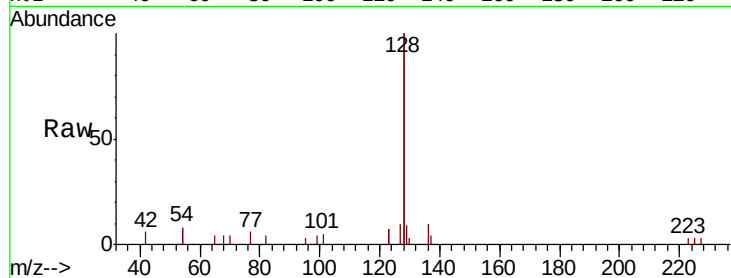
Tot Ion:128 Resp: 6563

Ion Ratio Lower Upper

128 100

129 4.6 2.5 3.7#

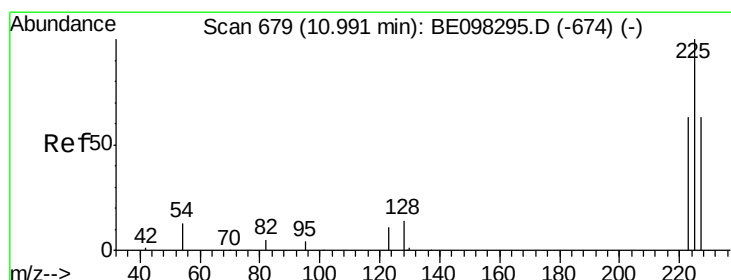
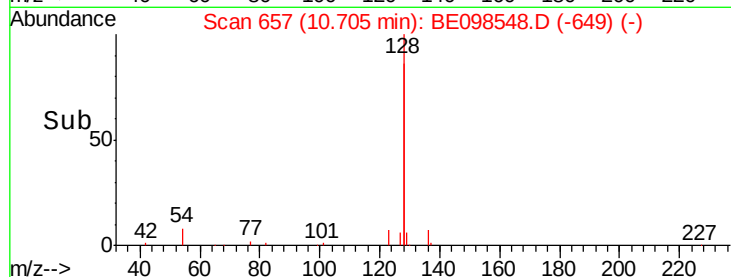
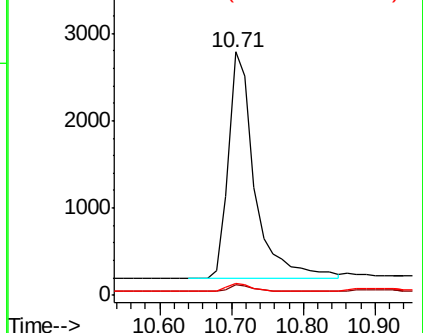
127 4.8 2.7 4.1#



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: 0.309 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

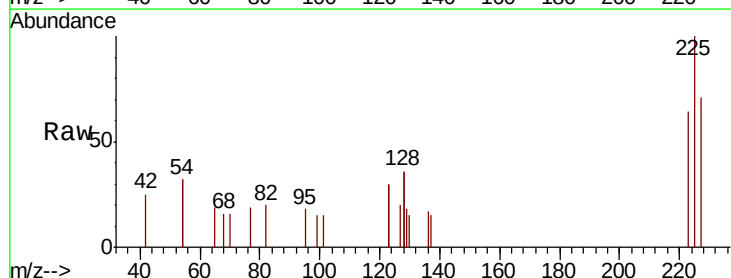
Tgt Ion:225 Resp: 446

Ion Ratio Lower Upper

225 100

223 57.4 49.4 74.0

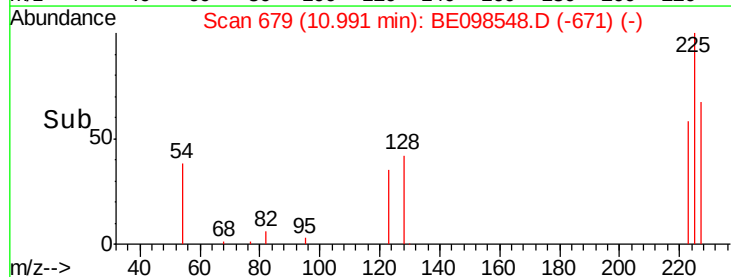
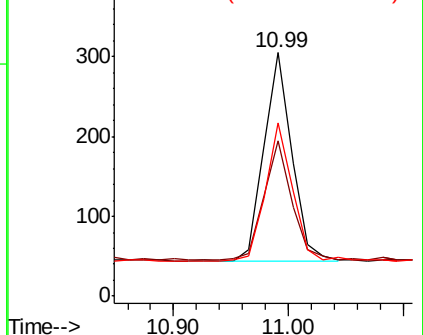
227 63.0 52.0 78.0

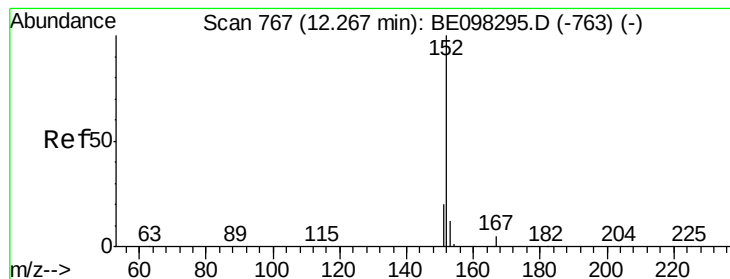


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.354 ng

RT: 12.27 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

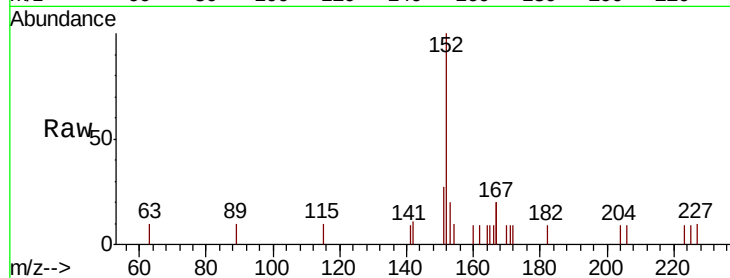
ClientSampled :

Tot Ion:152 Resp: 1297

Ion Ratio Lower Upper

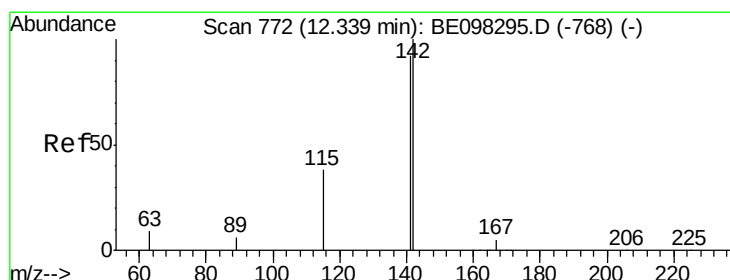
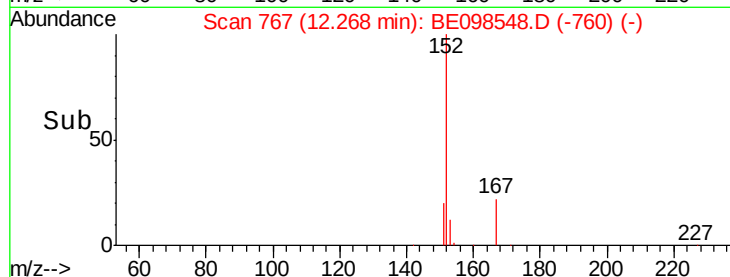
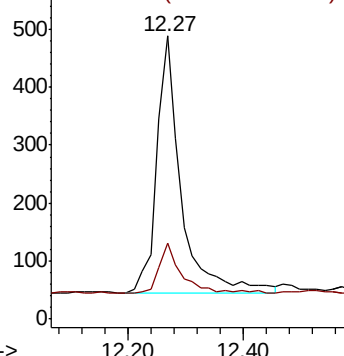
152 100

151 19.1 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.293 ng

RT: 12.34 min Scan# 772

Delta R.T. 0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

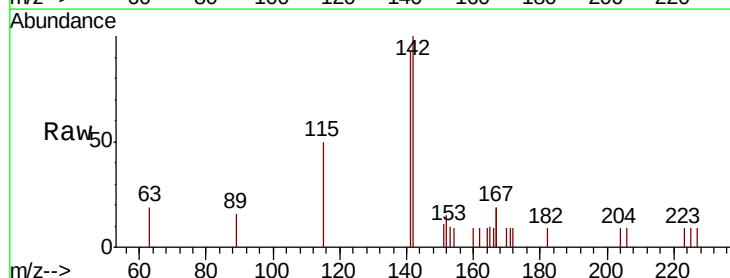
Tgt Ion:142 Resp: 1079

Ion Ratio Lower Upper

142 100

141 93.1 71.0 106.6

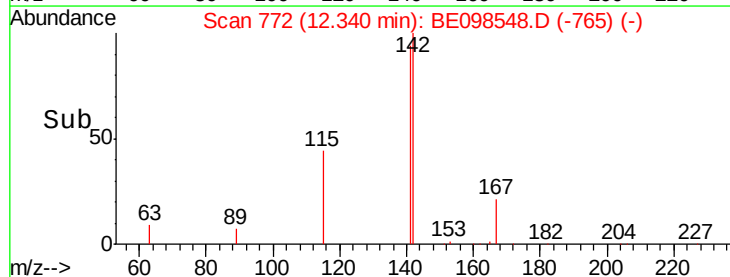
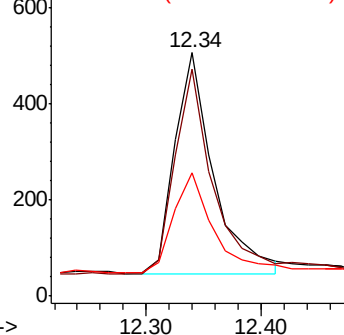
115 50.5 32.2 48.2#

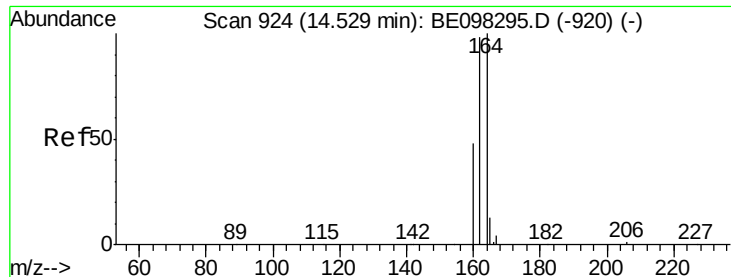


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

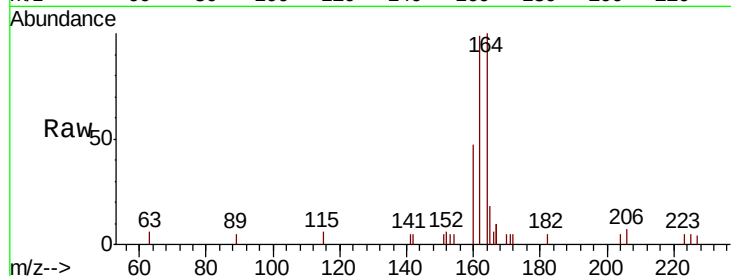




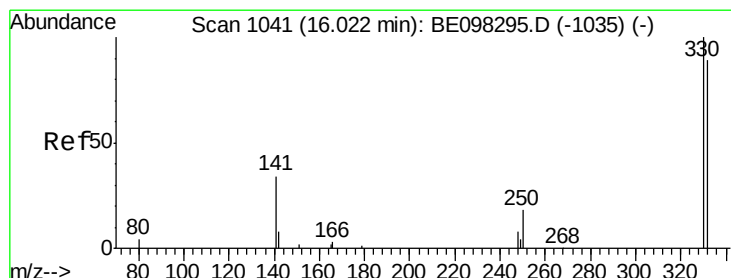
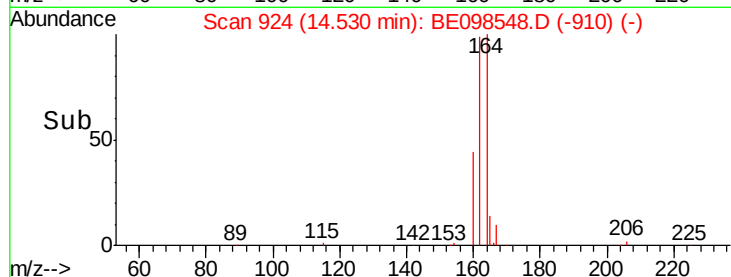
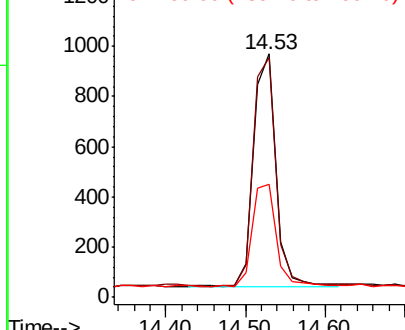
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.53 min Scan# 924
Delta R.T. 0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 1789
Ion Ratio Lower Upper
164 100
162 98.7 77.6 116.4
160 46.7 36.0 54.0

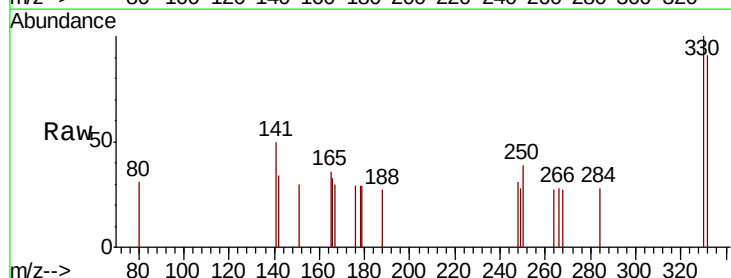


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

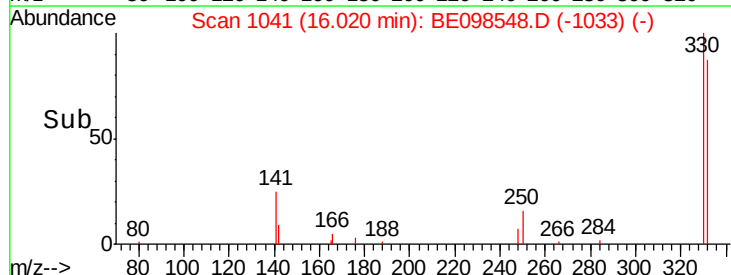
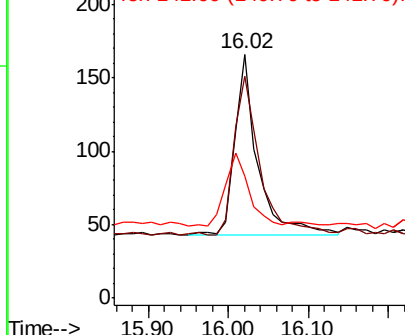


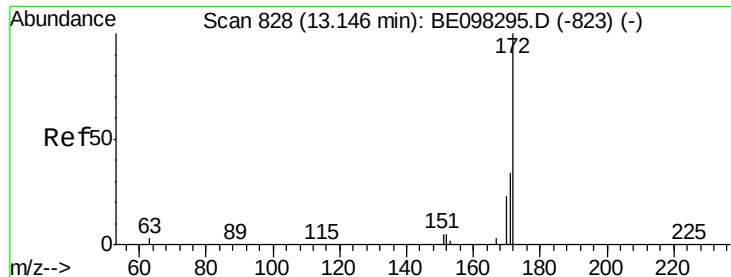
#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 16.02 min Scan# 1041
Delta R.T. -0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion:330 Resp: 244
Ion Ratio Lower Upper
330 100
332 99.2 76.2 114.4
141 41.4 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

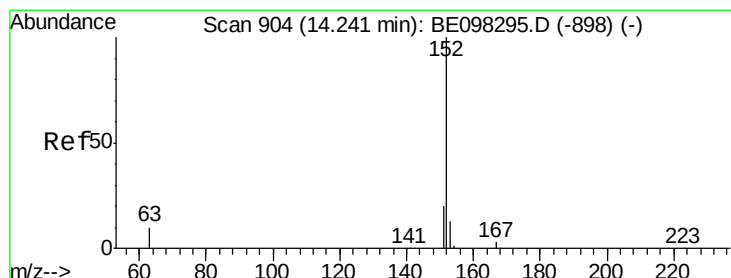
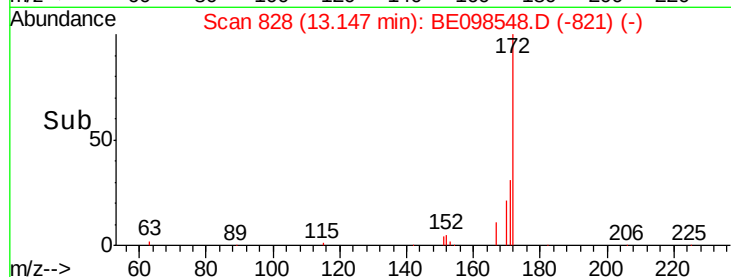
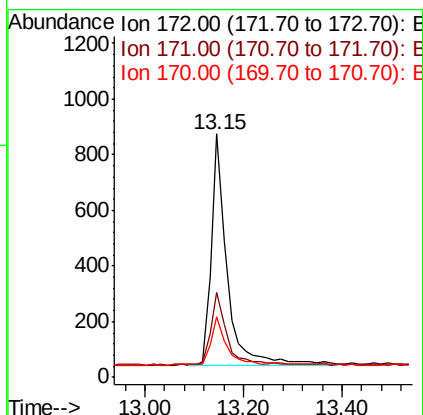
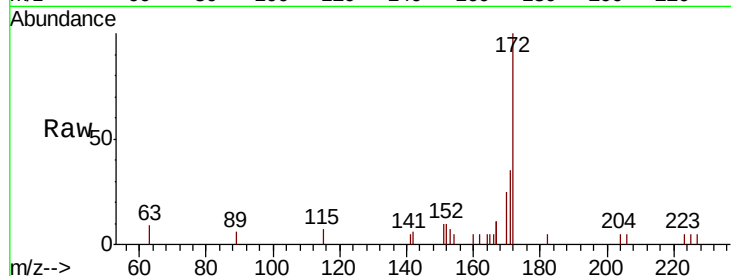




#15
2-Fluorobiphenyl
Concen: 0.239 ng
RT: 13.15 min Scan# 828
Delta R.T. 0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

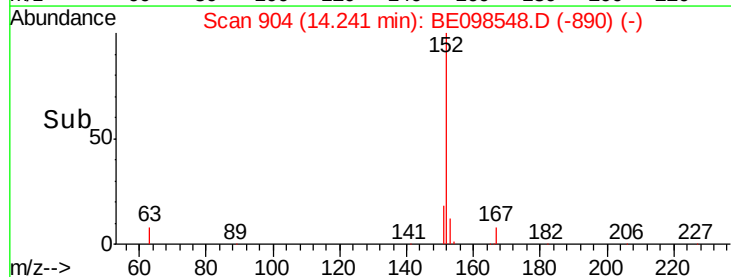
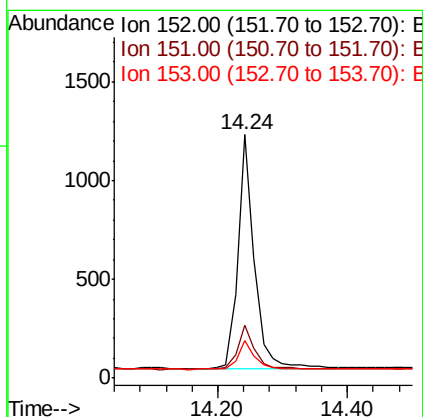
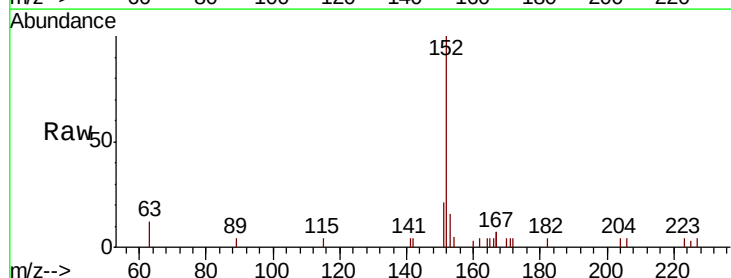
Instrument :
BNA_E
ClientSampleId :

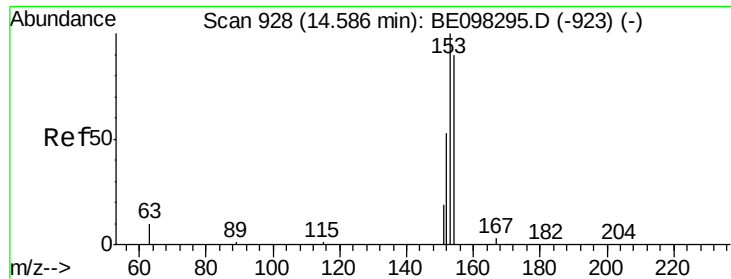
Tot Ion:172 Resp: 1801
Ion Ratio Lower Upper
172 100
171 35.0 27.5 41.3
170 24.9 19.6 29.4



#16
Acenaphthylene
Concen: 0.252 ng
RT: 14.24 min Scan# 904
Delta R.T. 0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion:152 Resp: 2115
Ion Ratio Lower Upper
152 100
151 19.9 15.5 23.3
153 13.2 10.6 16.0

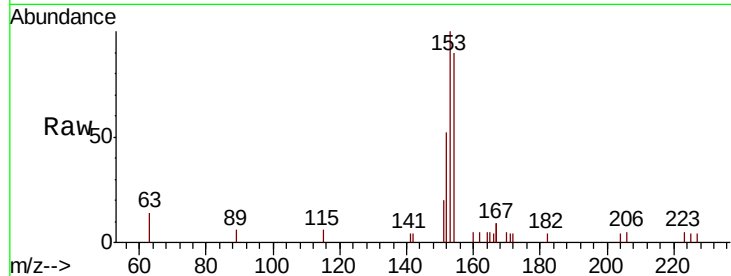




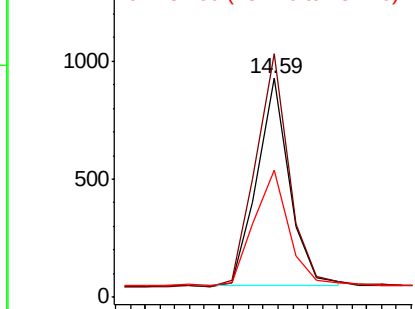
#17
Acenaphthene
Concen: 0.262 ng
RT: 14.59 min Scan# 928
Delta R.T. 0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Instrument :
BNA_E
ClientSampleId :

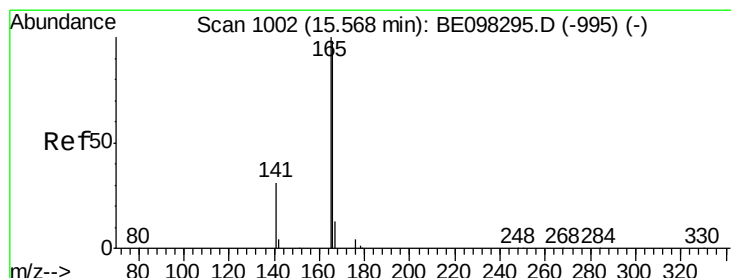
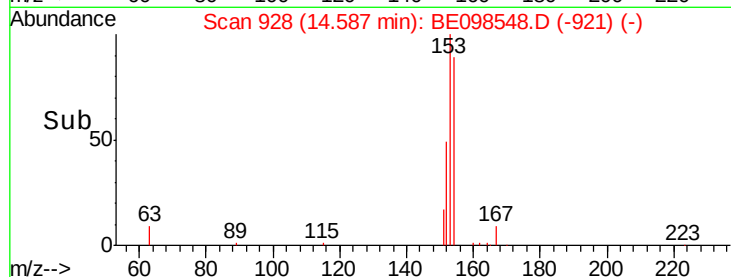
Tot Ion:154 Resp: 1318
Ion Ratio Lower Upper
154 100
153 118.1 91.8 137.6
152 61.2 45.5 68.3



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

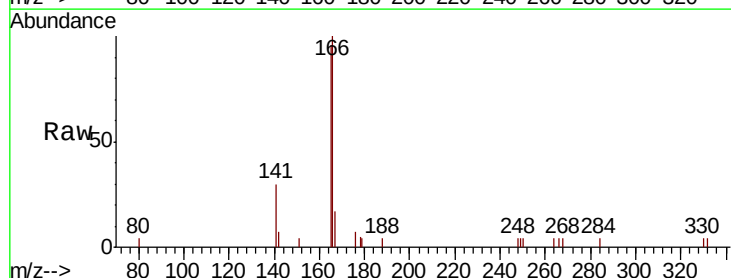


Time-->

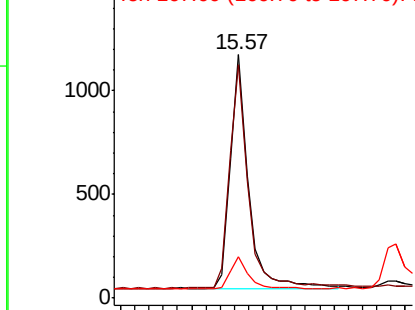


#18
Fluorene
Concen: 0.298 ng
RT: 15.57 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

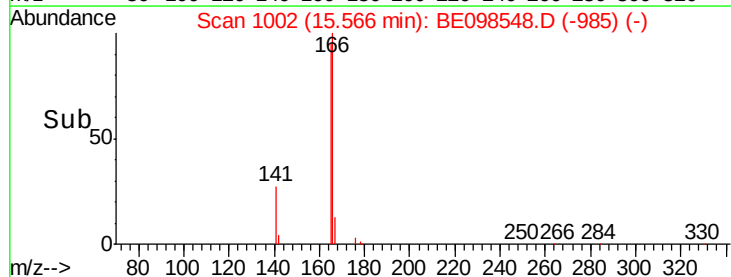
Tgt Ion:166 Resp: 2006
Ion Ratio Lower Upper
166 100
165 97.6 79.3 118.9
167 14.7 11.3 16.9

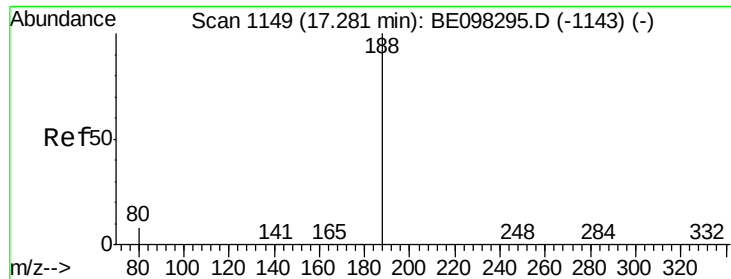


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampled :

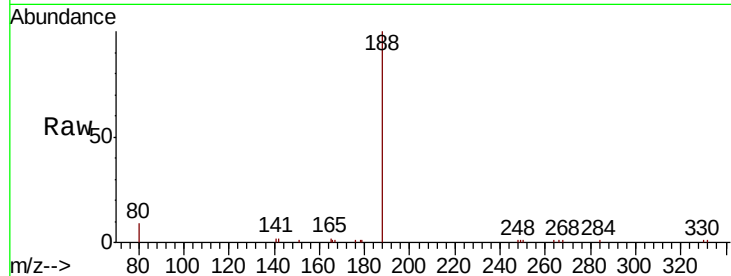
Tot Ion:188 Resp: 6362

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

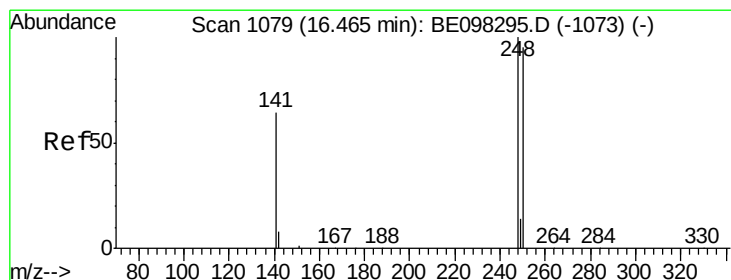
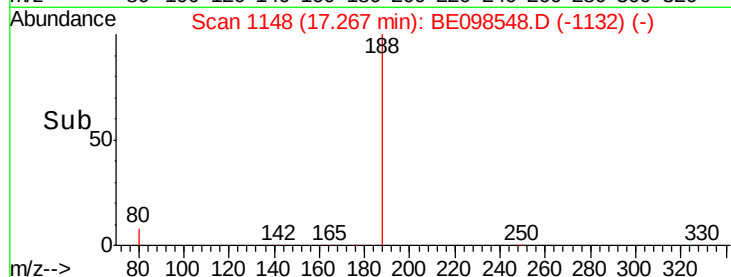
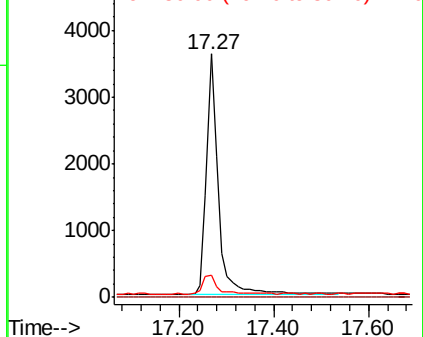
80 8.9 7.2 10.8



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: 0.216 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

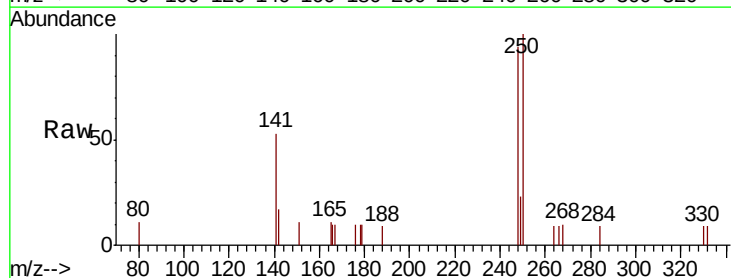
Tgt Ion:248 Resp: 741

Ion Ratio Lower Upper

248 100

250 105.9 71.0 106.6

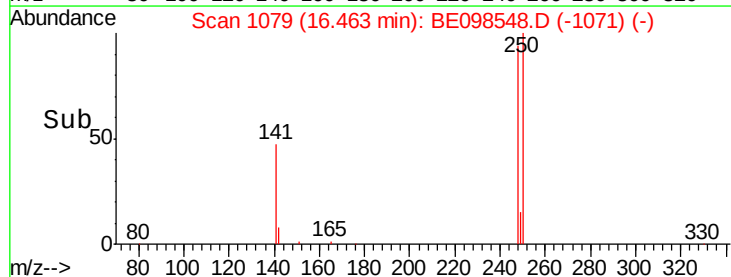
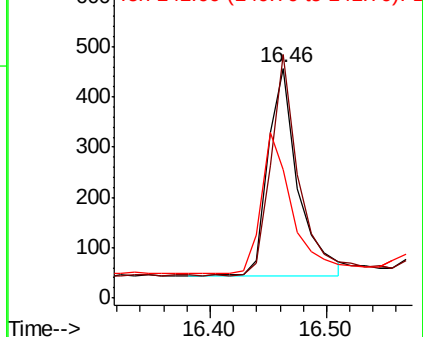
141 56.0 62.1 93.1#

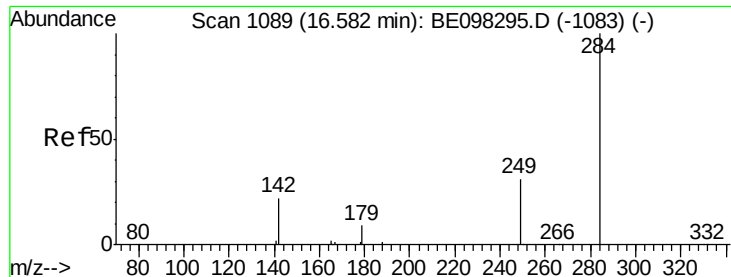


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.256 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampleId :

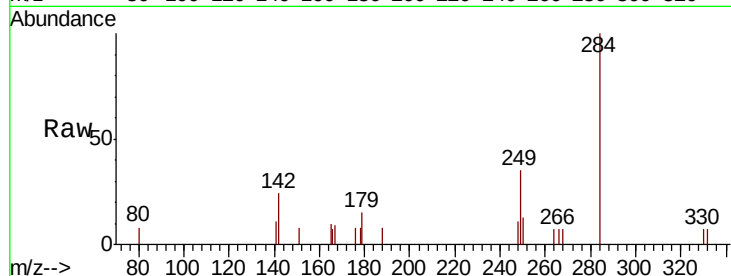
Tot Ion:284 Resp: 941

Ion Ratio Lower Upper

284 100

142 35.7 26.3 39.5

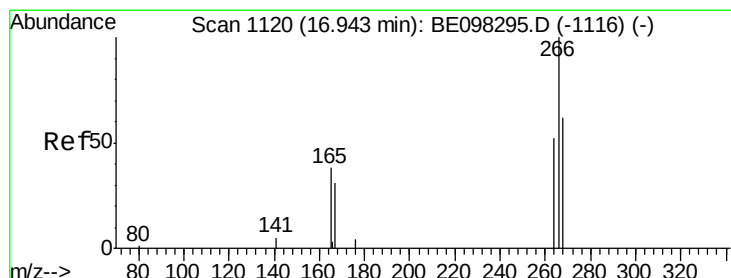
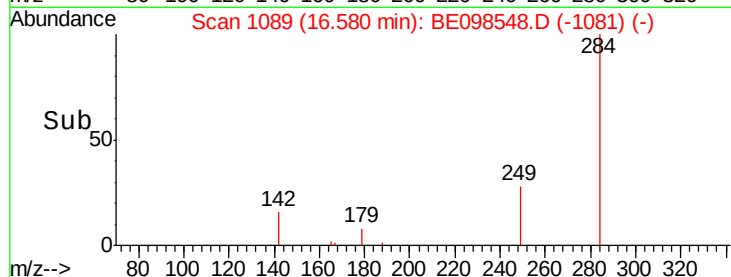
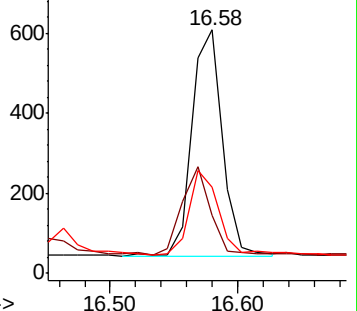
249 35.7 26.0 39.0



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: 0.549 ng

RT: 16.94 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

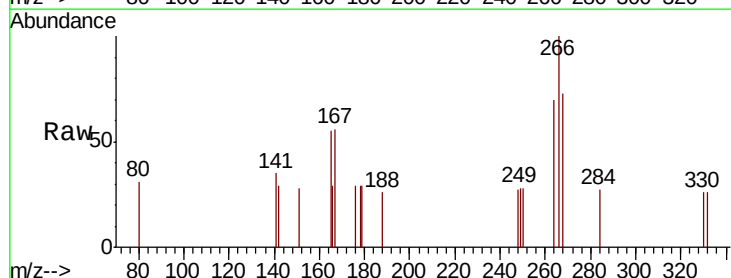
Tgt Ion:266 Resp: 343

Ion Ratio Lower Upper

266 100

264 70.0 59.0 88.4

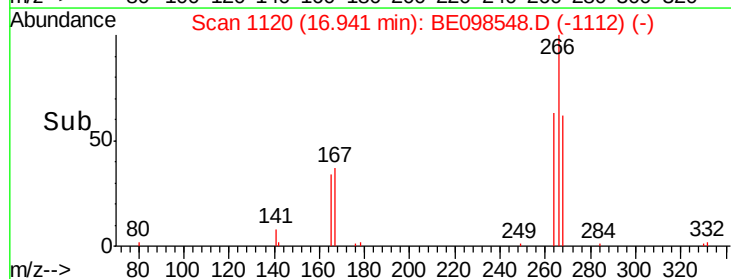
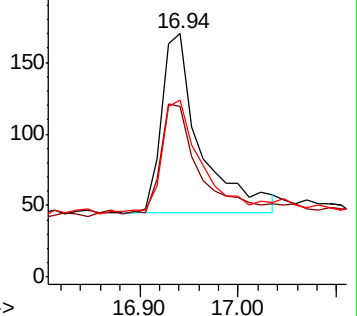
268 72.9 55.1 82.7

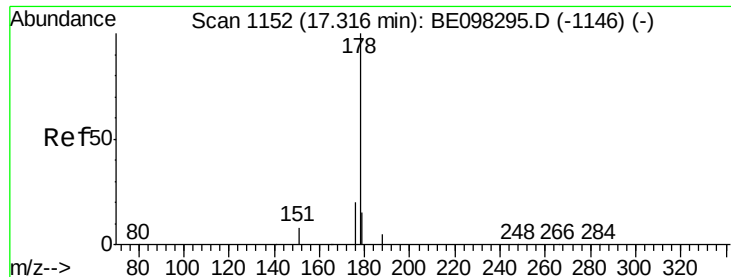


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.273 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

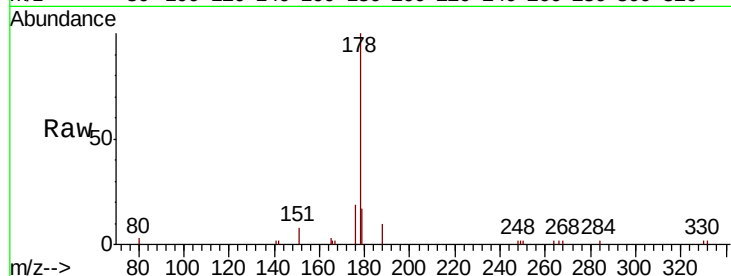
Instrument :

BNA_E

ClientSampleId :

Tot Ion:178 Resp: 4217

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.6	12.3	18.5

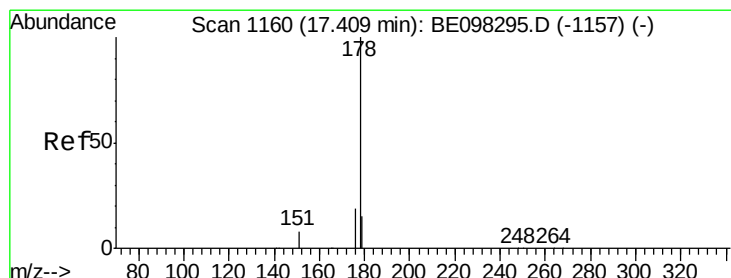
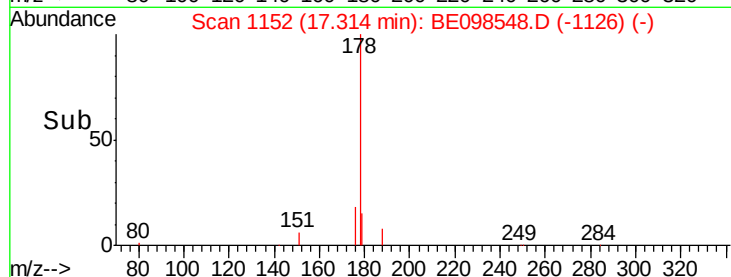
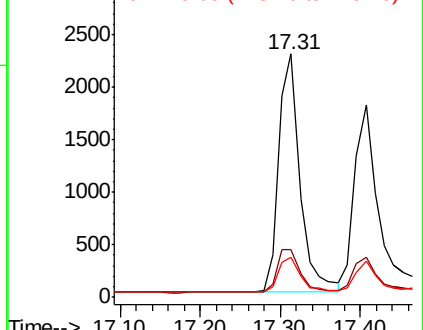


Abundance

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: 0.238 ng

RT: 17.41 min Scan# 1160

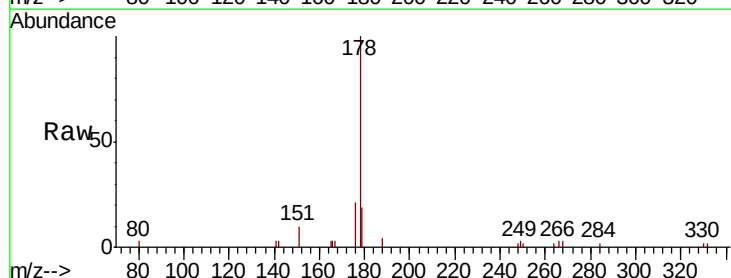
Delta R.T. -0.00 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Tgt Ion:178 Resp: 3278

Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.0	22.4
179	14.9	12.3	18.5

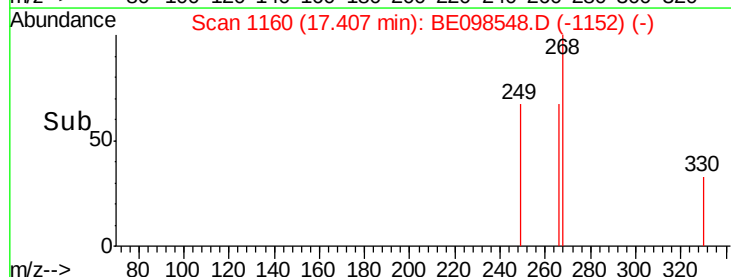
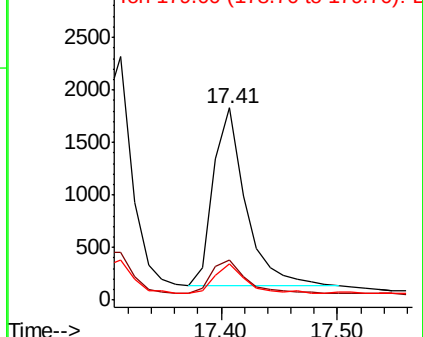


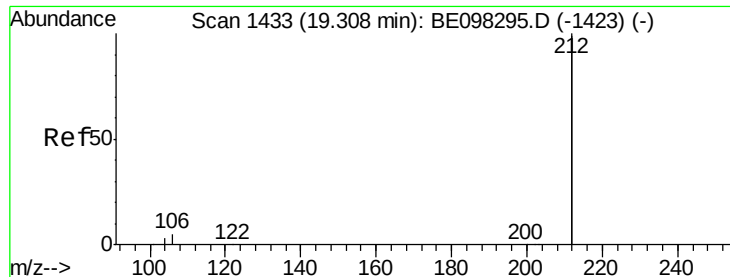
Abundance

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

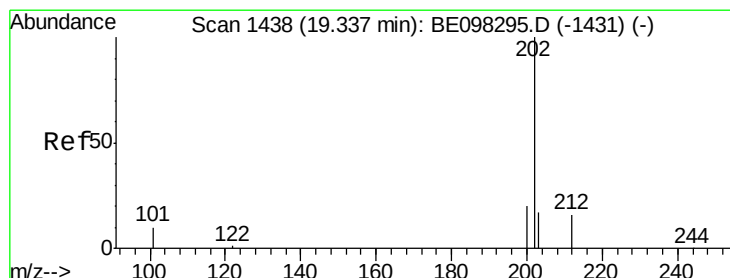
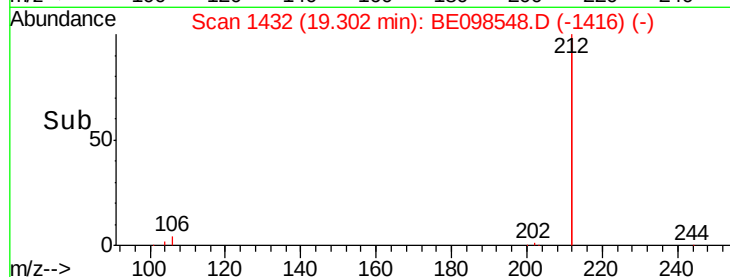
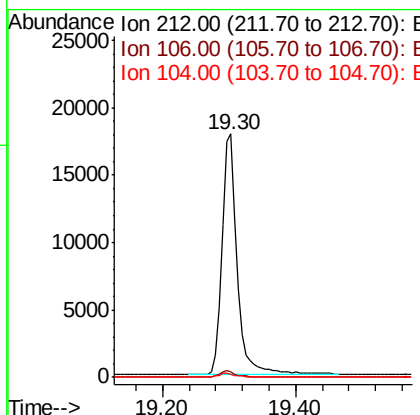
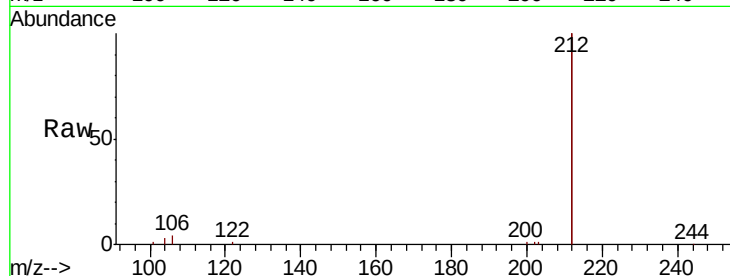




#25
 Fluoranthene-d10
 Concen: 0.348 ng
 RT: 19.30 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BE098548.D
 Acq: 21 Dec 2018 10:58

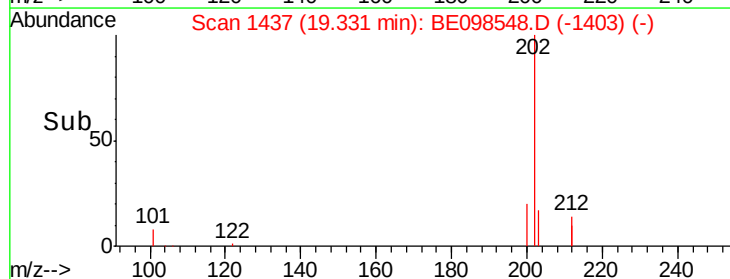
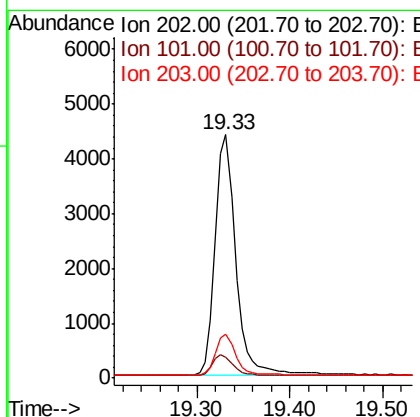
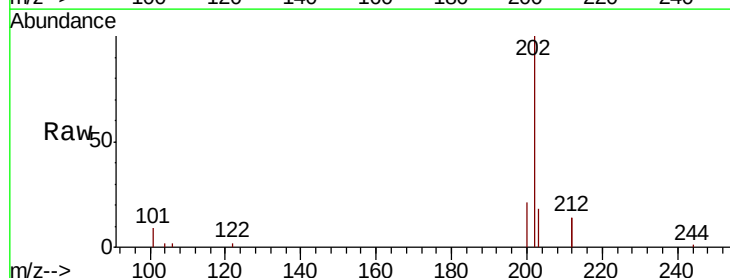
Instrument :
 BNA_E
 ClientSampleId :

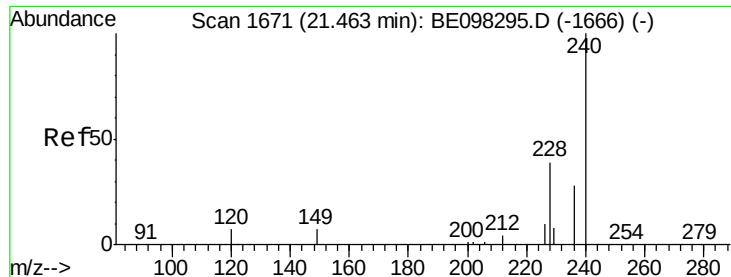
Tot Ion:212 Resp: 28368
 Ion Ratio Lower Upper
 212 100
 106 2.3 2.2 3.2
 104 1.4 1.3 1.9



#26
 Fluoranthene
 Concen: 0.335 ng
 RT: 19.33 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BE098548.D
 Acq: 21 Dec 2018 10:58

Tgt Ion:202 Resp: 6858
 Ion Ratio Lower Upper
 202 100
 101 8.7 8.0 12.0
 203 16.2 13.8 20.6

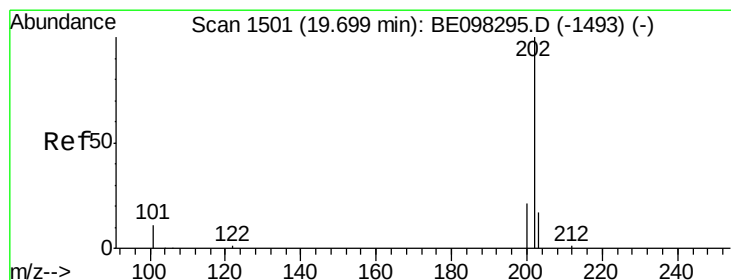
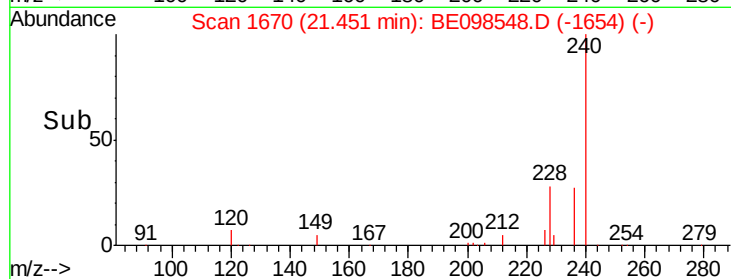
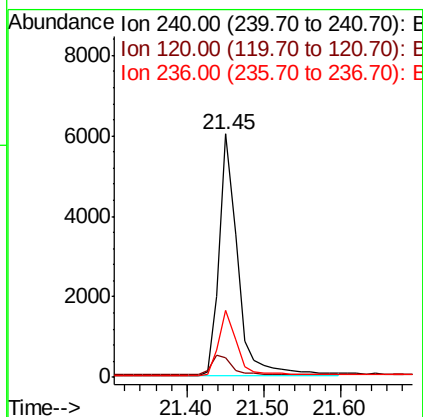
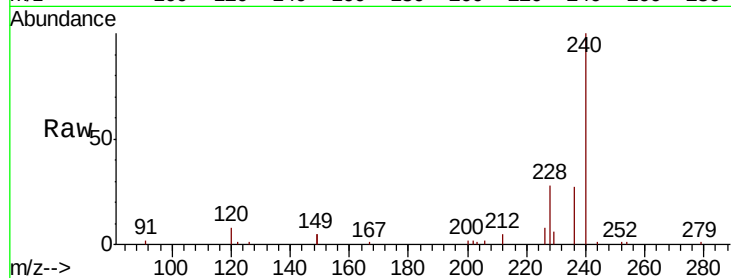




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.45 min Scan# 1670
Delta R.T. -0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

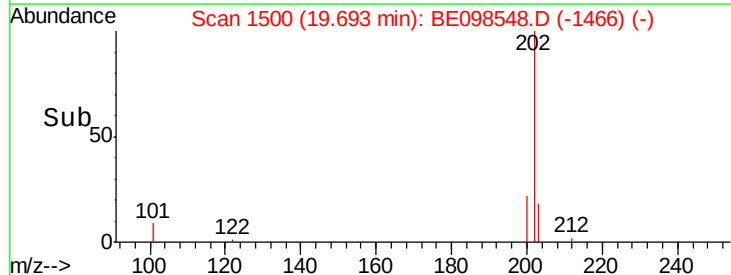
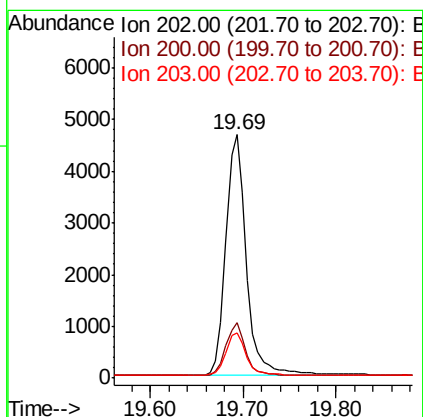
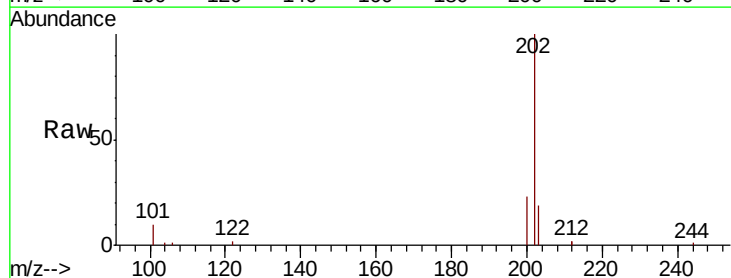
Instrument :
BNA_E
ClientSampleId :

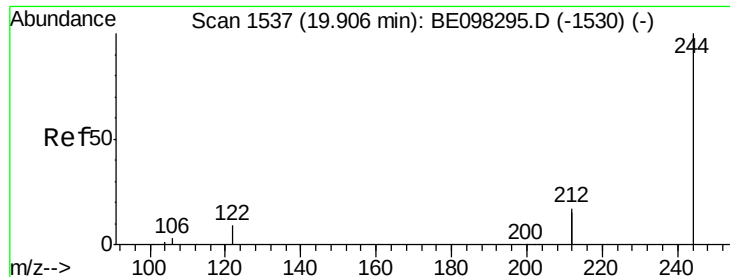
Tot Ion:240 Resp: 10054
Ion Ratio Lower Upper
240 100
120 8.3 9.5 14.3#
236 27.4 22.7 34.1



#28
Pyrene
Concen: 0.226 ng
RT: 19.69 min Scan# 1500
Delta R.T. -0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion:202 Resp: 7144
Ion Ratio Lower Upper
202 100
200 21.5 16.7 25.1
203 17.7 14.1 21.1





#29

Terphenyl-d14

Concen: 0.247 ng

RT: 19.89 min Scan# 1535

Delta R.T. -0.01 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampleId :

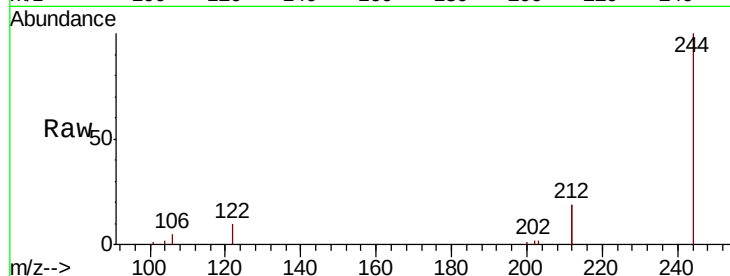
Tot Ion:244 Resp: 6041

Ion Ratio Lower Upper

244 100

212 38.5 27.4 41.0

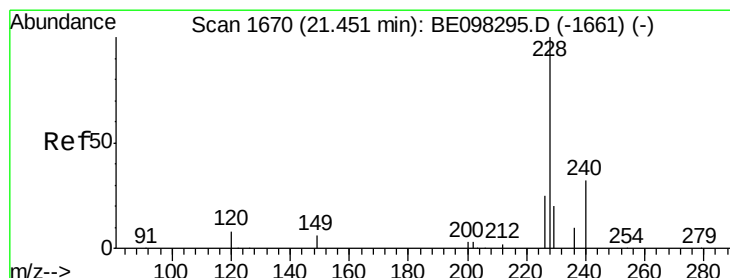
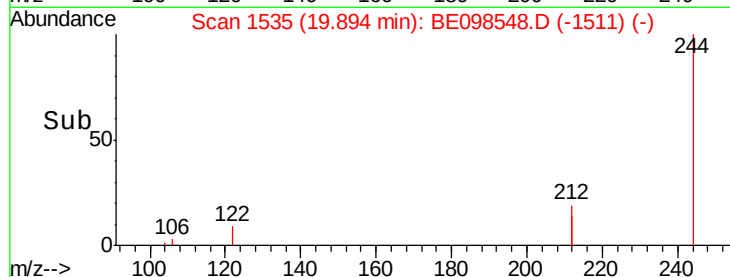
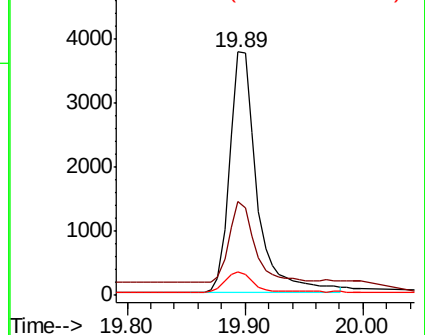
122 9.8 8.3 12.5



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: 0.261 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

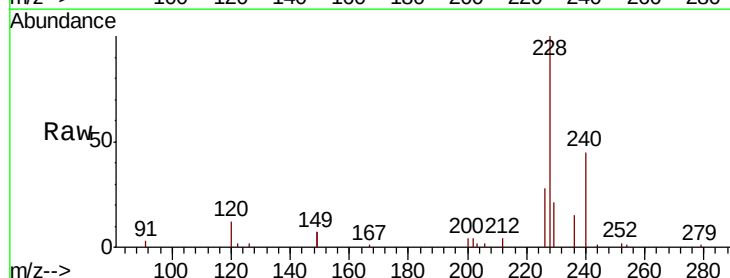
Tgt Ion:228 Resp: 7460

Ion Ratio Lower Upper

228 100

226 28.4 21.8 32.8

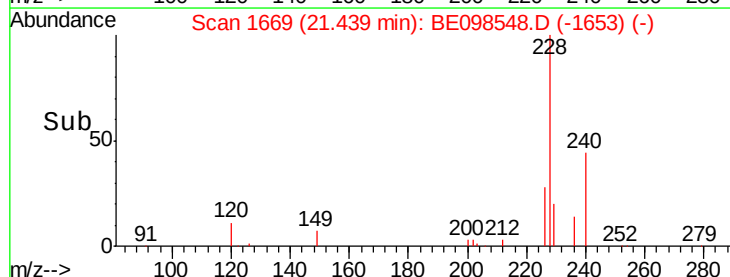
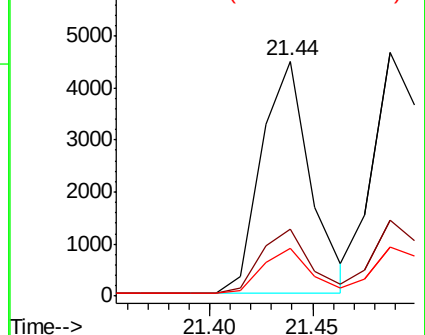
229 20.6 16.3 24.5

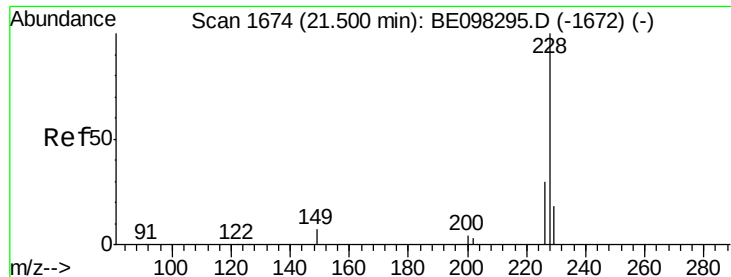


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

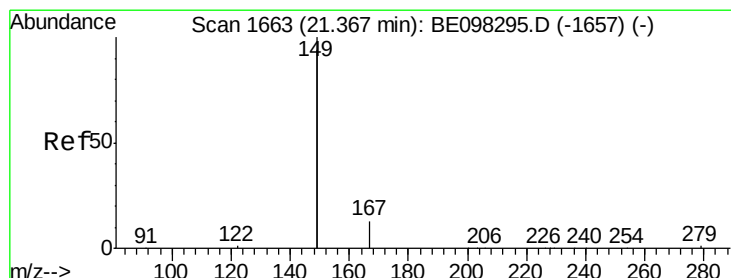
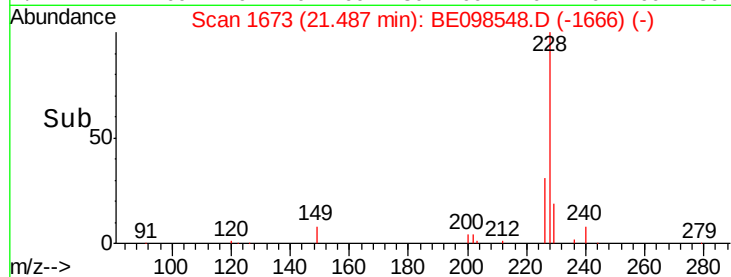
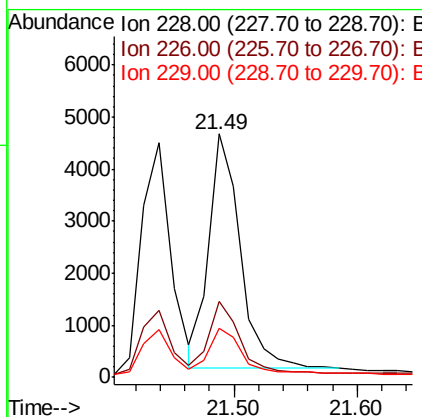
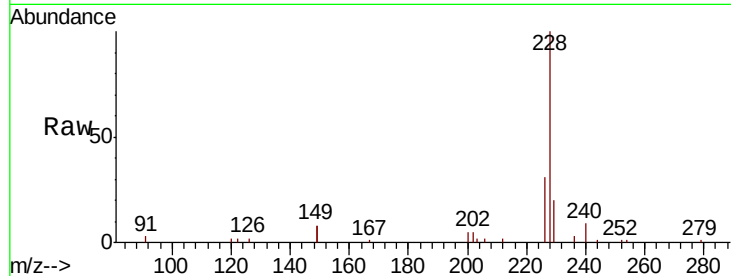




#31
Chrysene
Concen: 0.267 ng
RT: 21.49 min Scan# 1673
Delta R.T. -0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

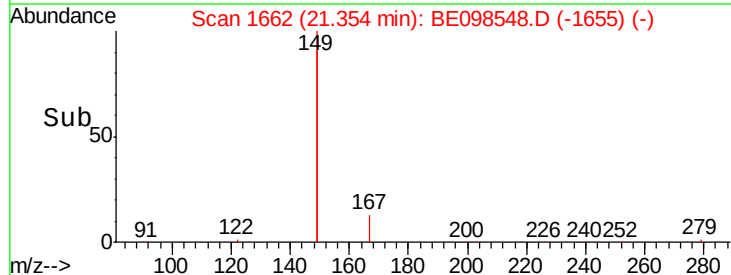
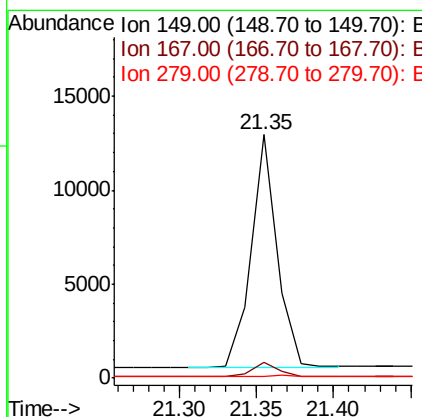
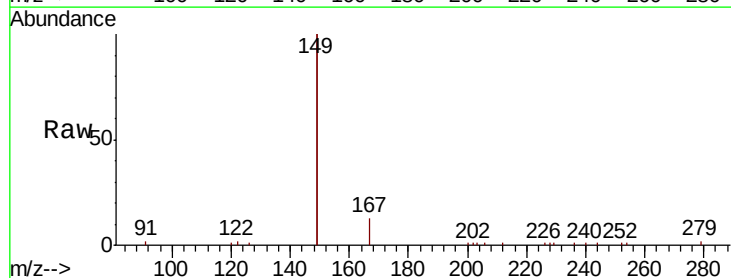
Instrument :
BNA_E
ClientSampleId :

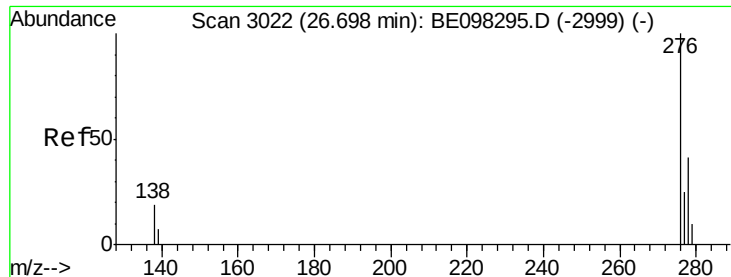
Tot Ion:228 Resp: 8003
Ion Ratio Lower Upper
228 100
226 31.4 23.4 35.0
229 20.1 16.2 24.4



#32
Bis(2-ethylhexyl)phthalate
Concen: 0.251 ng
RT: 21.35 min Scan# 1662
Delta R.T. -0.01 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion:149 Resp: 14602
Ion Ratio Lower Upper
149 100
167 6.9 5.7 8.5
279 1.0 1.0 1.4

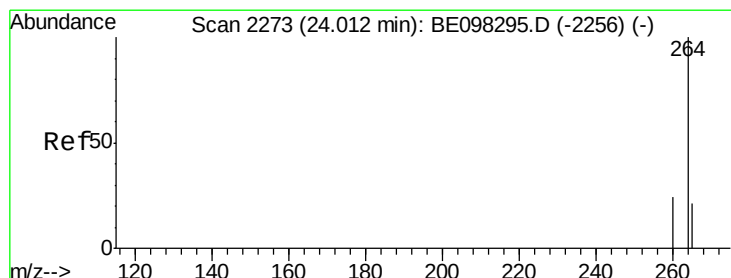
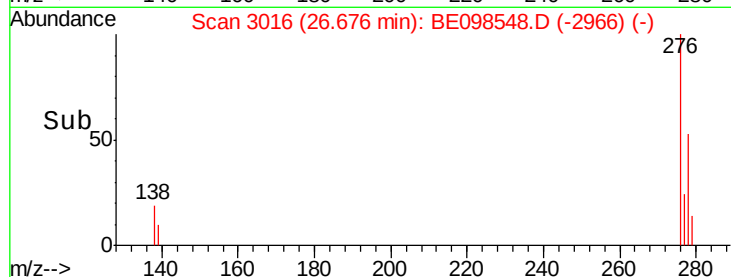
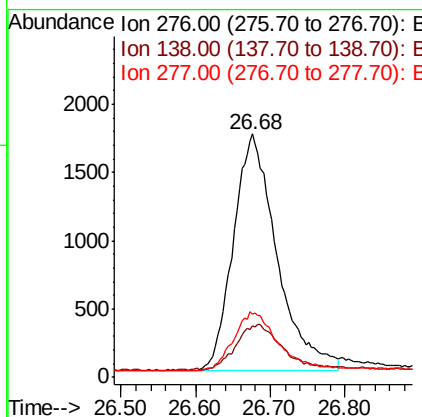
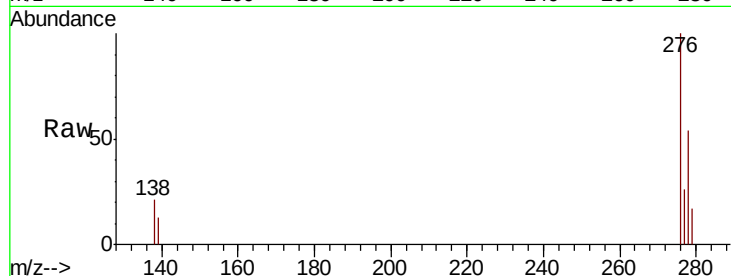




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.236 ng
 RT: 26.68 min Scan# 3016
 Delta R.T. -0.02 min
 Lab File: BE098548.D
 Acq: 21 Dec 2018 10:58

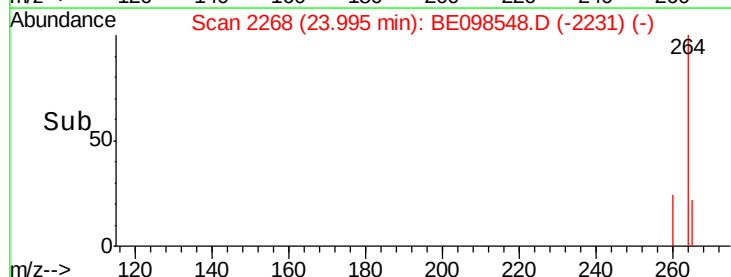
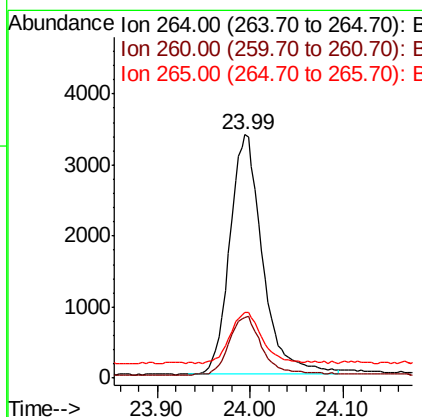
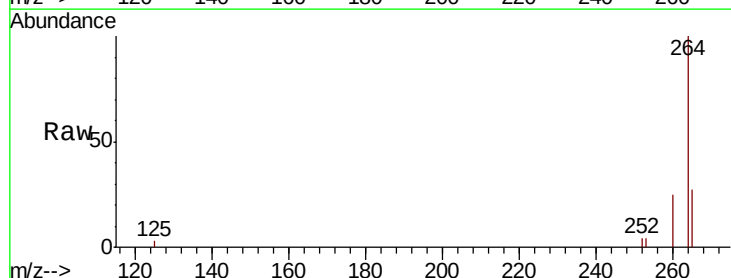
Instrument :
 BNA_E
 ClientSampleId :

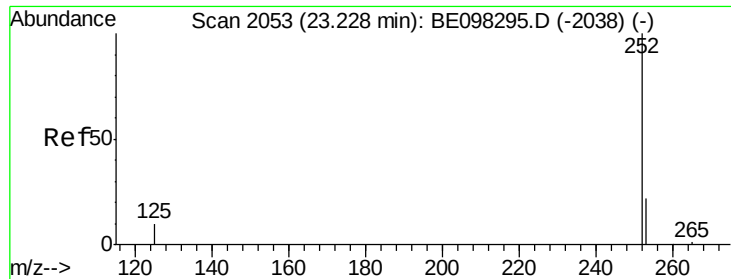
Tot Ion:276 Resp: 7053
 Ion Ratio Lower Upper
 276 100
 138 20.3 16.3 24.5
 277 24.9 20.2 30.4



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.99 min Scan# 2268
 Delta R.T. -0.02 min
 Lab File: BE098548.D
 Acq: 21 Dec 2018 10:58

Tgt Ion:264 Resp: 8305
 Ion Ratio Lower Upper
 264 100
 260 25.1 20.2 30.2
 265 26.9 25.2 37.8

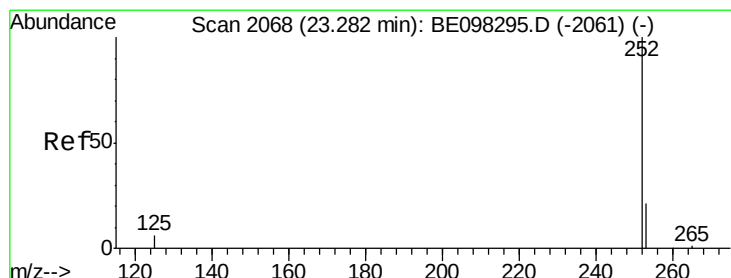
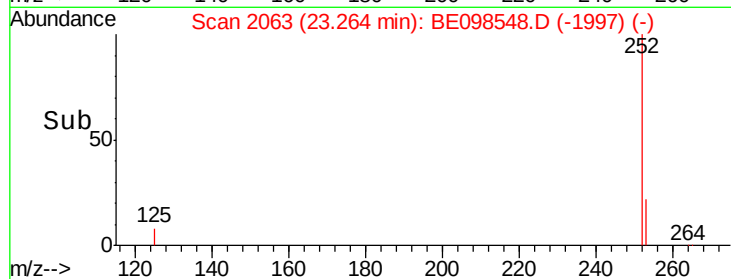
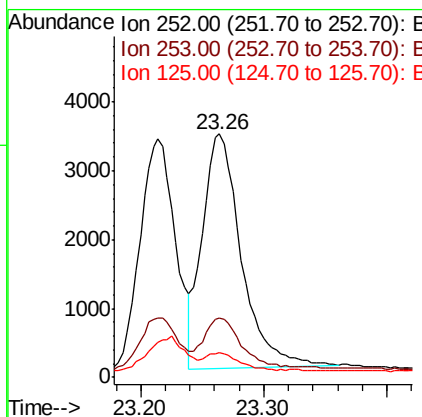
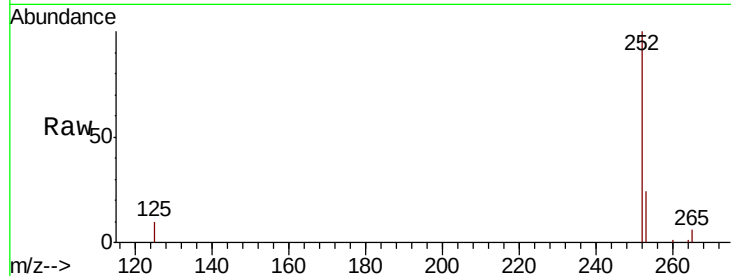




#35
Benzo(b)fluoranthene
Concen: 0.329 ng
RT: 23.26 min Scan# 2063
Delta R.T. 0.04 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

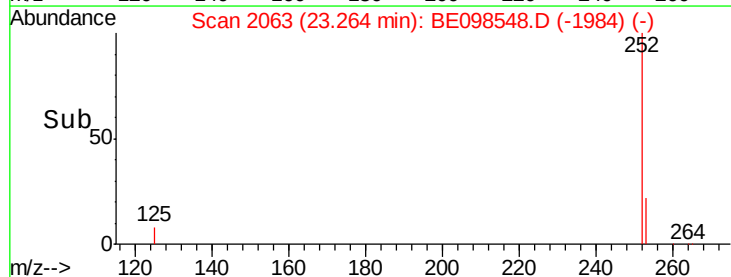
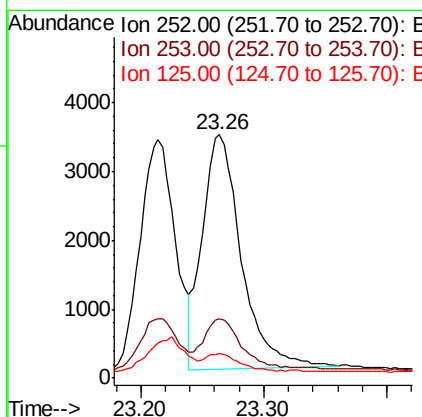
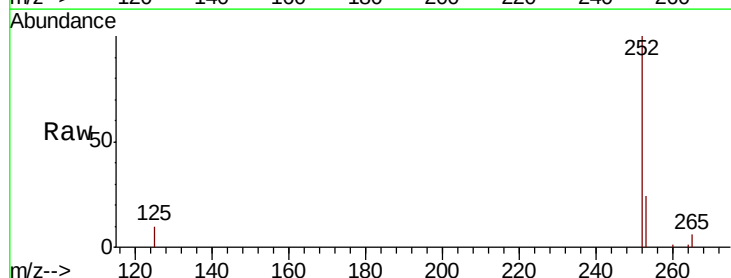
Instrument :
BNA_E
ClientSampleId :

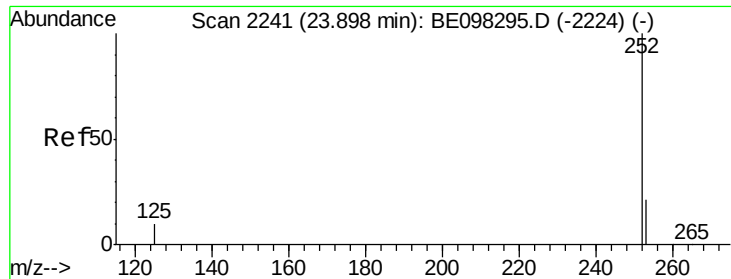
Tot Ion:252 Resp: 7477
Ion Ratio Lower Upper
252 100
253 24.5 20.0 30.0
125 10.0 9.6 14.4



#36
Benzo(k)fluoranthene
Concen: 0.283 ng
RT: 23.26 min Scan# 2063
Delta R.T. -0.02 min
Lab File: BE098548.D
Acq: 21 Dec 2018 10:58

Tgt Ion:252 Resp: 7477
Ion Ratio Lower Upper
252 100
253 24.5 19.0 28.6
125 10.0 9.1 13.7





#37

Benzo(a)pyrene

Concen: 0.287 ng

RT: 23.88 min Scan# 2236

Delta R.T. -0.02 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampleId :

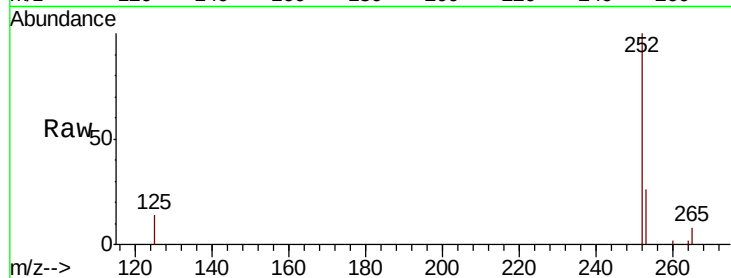
Tot Ion:252 Resp: 6731

Ion Ratio Lower Upper

252 100

253 26.2 20.6 30.8

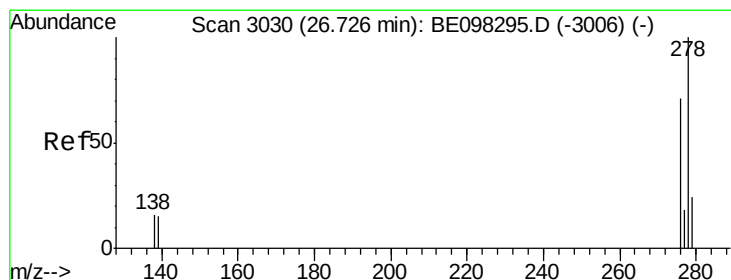
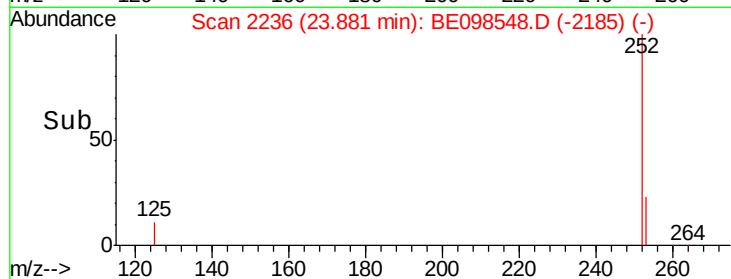
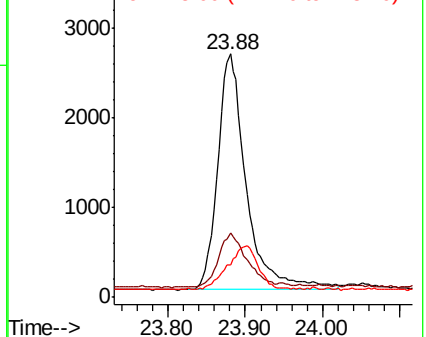
125 13.6 10.5 15.7



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: 0.259 ng

RT: 26.70 min Scan# 3022

Delta R.T. -0.03 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

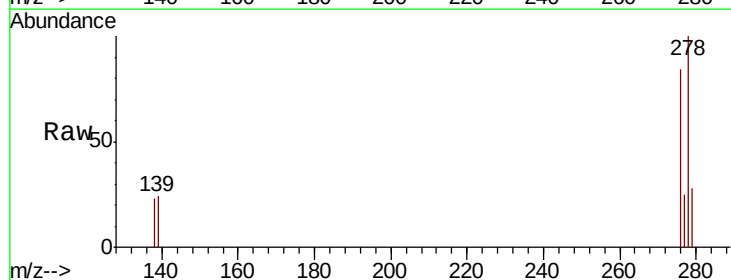
Tgt Ion:278 Resp: 5723

Ion Ratio Lower Upper

278 100

139 23.5 14.5 21.7#

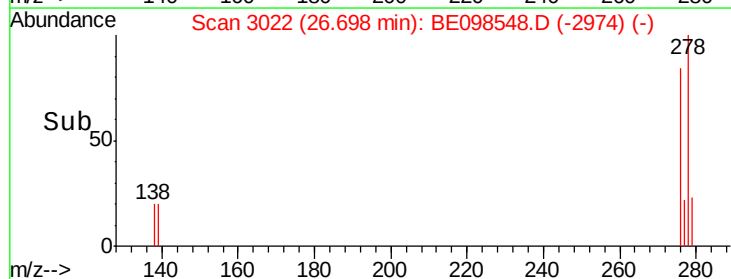
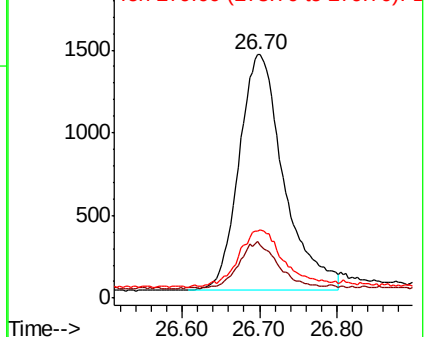
279 27.7 21.8 32.8

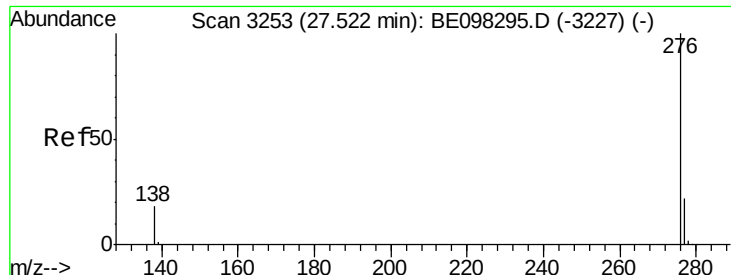


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.278 ng

RT: 27.49 min Scan# 3245

Delta R.T. -0.03 min

Lab File: BE098548.D

Acq: 21 Dec 2018 10:58

Instrument :

BNA_E

ClientSampleId :

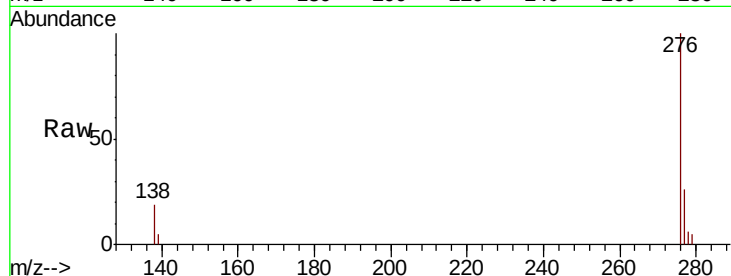
Tot Ion:276 Resp: 6184

Ion Ratio Lower Upper

276 100

277 26.0 20.8 31.2

138 19.4 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

