

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091918\
 Data File : BE097558.D
 Acq On : 20 Sep 2018 2:13
 Operator : SJ/JU
 Sample : J4958-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 20 05:11:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 19 16:26:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	791	0.40	ng	0.00
7) Naphthalene-d8	10.13	136	3762	0.40	ng	0.00
13) Acenaphthene-d10	14.00	164	2295	0.40	ng	0.00
19) Phenanthrene-d10	16.75	188	7084	0.40	ng	0.00
27) Chrysene-d12	20.97	240	9811	0.40	ng	0.00
34) Perylene-d12	23.20	264	9697	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.05	112	423	0.18	ng	0.01
5) Phenol-d6	6.61	99	275	0.09	ng	0.01
8) Nitrobenzene-d5	8.53	82	1234	0.42	ng	0.01
11) 2-Methylnaphthalene-d10	11.71	152	2155	0.42	ng	0.00
14) 2,4,6-Tribromophenol	15.52	330	475	0.51	ng	-0.01
15) 2-Fluorobiphenyl	12.62	172	5906	0.73	ng	-0.01
25) Fluoranthene-d10	18.80	212	38579	0.43	ng	0.00
29) Terphenyl-d14	19.41	244	9678	0.54	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.08	88	111	0.045	ng	# 52
3) n-Nitrosodimethylamine	3.36	42	17	0.031	ng	# 47
6) bis(2-Chloroethyl)ether	6.86	93	15	0.005	ng	# 1
9) Naphthalene	10.17	128	928	0.027	ng	# 78
10) Hexachlorobutadiene	10.46	225	31	0.020	ng	# 91
12) 2-Methylnaphthalene	11.79	142	195	0.037	ng	# 81
16) Acenaphthylene	13.72	152	105	0.012	ng	# 68
17) Acenaphthene	14.06	154	66	0.011	ng	# 84
18) Fluorene	15.06	166	155	0.020	ng	# 75
20) 4-Bromophenyl-phenylether	15.96	248	45	0.014	ng	# 46
21) Hexachlorobenzene	16.07	284	60	0.017	ng	# 69
22) Pentachlorophenol	16.44	266	56	0.165	ng	# 95
23) Phenanthrene	16.80	178	376	0.022	ng	# 78
24) Anthracene	16.89	178	260	0.017	ng	# 87
26) Fluoranthene	18.83	202	575	0.025	ng	# 89
28) Pyrene	19.19	202	584	0.026	ng	# 91
30) Benzo(a)anthracene	20.95	228	730	0.030	ng	# 54
31) Chrysene	21.00	228	674	0.025	ng	# 58
32) Bis(2-ethylhexyl)phthalate	20.91	149	8584	0.217	ng	# 98
33) Indeno(1,2,3-cd)pyrene	25.49	276	657	0.021	ng	# 95
35) Benzo(b)fluoranthene	22.53	252	611	0.025	ng	# 22
36) Benzo(k)fluoranthene	22.57	252	596	0.021	ng	# 1
37) Benzo(a)pyrene	23.10	252	653	0.046	ng	# 1
38) Dibenzo(a,h)anthracene	25.51	278	479	0.018	ng	# 1
39) Benzo(g,h,i)perylene	26.20	276	527	0.021	ng	# 40

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

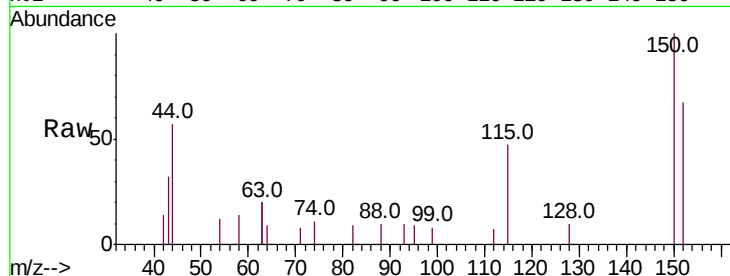


#1

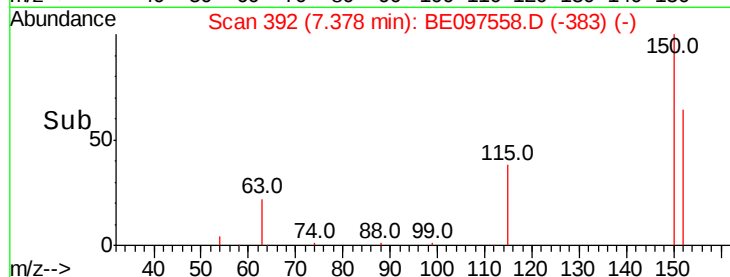
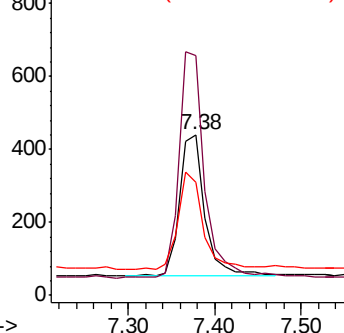
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.38 min Scan# 392
 Delta R.T. -0.00 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:152 Resp: 791
 Ion Ratio Lower Upper
 152 100
 150 148.8 117.2 175.8
 115 70.3 57.0 85.6



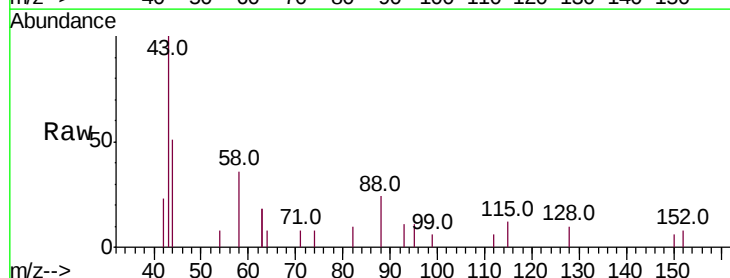
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



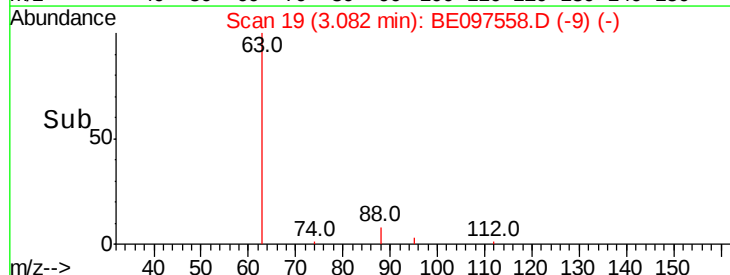
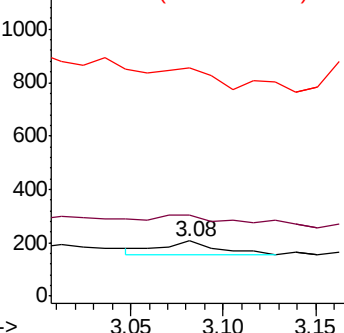
#2

1,4-Dioxane
 Concen: 0.045 ng
 RT: 3.08 min Scan# 19
 Delta R.T. 0.01 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

Tgt Ion: 88 Resp: 111
 Ion Ratio Lower Upper
 88 100
 58 52.3 63.2 94.8#
 43 0.0 41.2 61.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0
 Ion 58.00 (57.70 to 58.70): BE0
 Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.031 ng

RT: 3.36 min Scan# 43

Delta R.T. -0.01 min

Lab File: BE097558.D

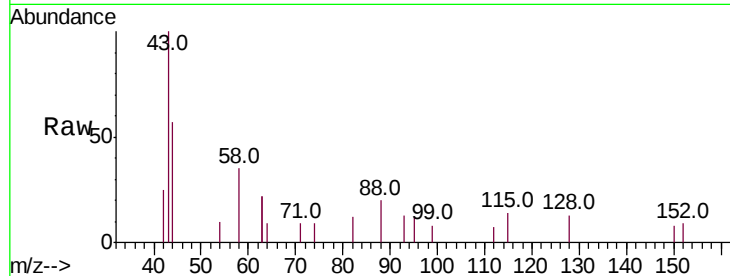
Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

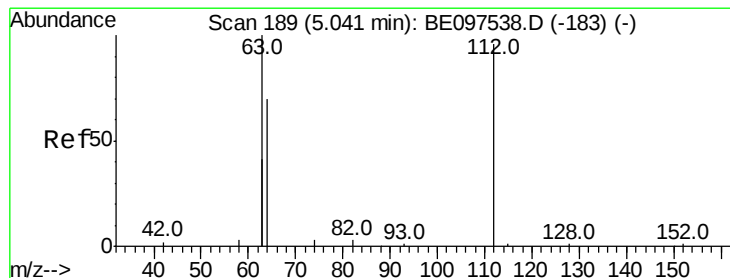
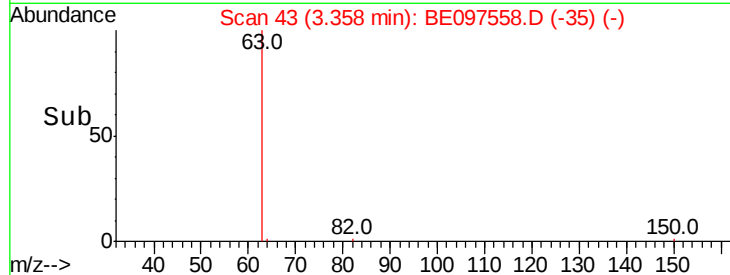
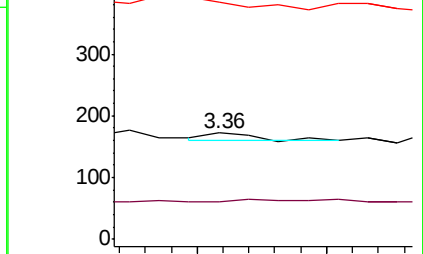
Tot Ion:	42	Resp:	17
Ion	Ratio	Lower	Upper
42	100		
74	58.8	96.0	144.0#
44	0.0	12.0	18.0#



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: 0.178 ng

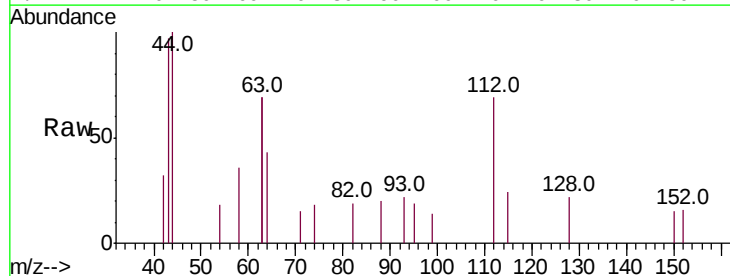
RT: 5.05 min Scan# 190

Delta R.T. 0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

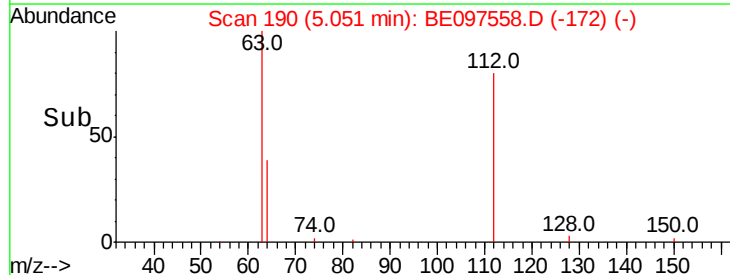
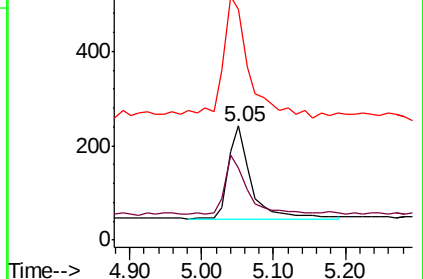
Tgt Ion:	112	Resp:	423
Ion	Ratio	Lower	Upper
112	100		
64	63.1	60.1	90.1
63	155.3	116.8	175.2

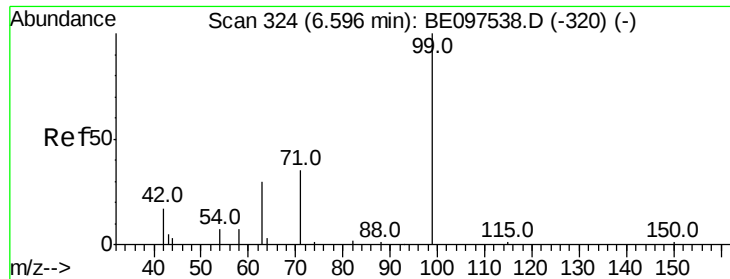


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.091 ng

RT: 6.61 min Scan# 325

Delta R.T. 0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampled :

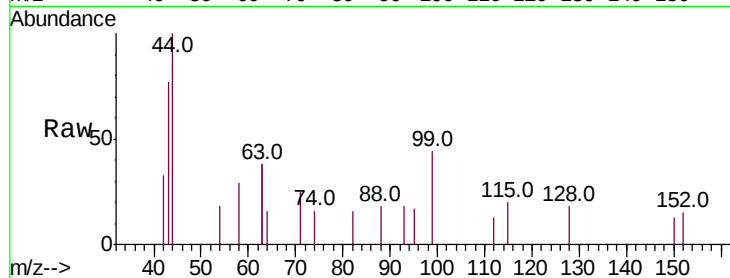
Tot Ion: 99 Resp: 275

Ion Ratio Lower Upper

99 100

42 14.2 20.2 30.2#

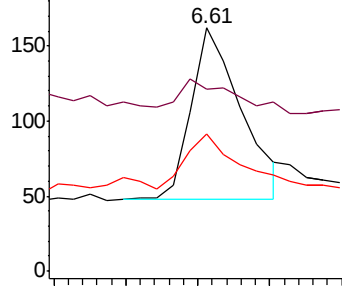
71 32.4 28.4 42.6



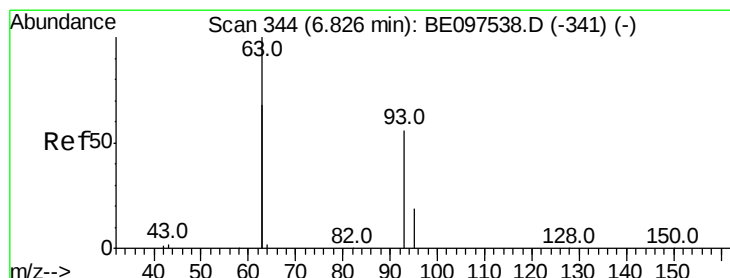
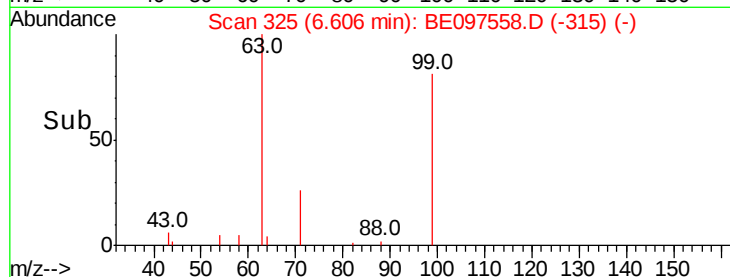
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.005 ng

RT: 6.86 min Scan# 347

Delta R.T. 0.03 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

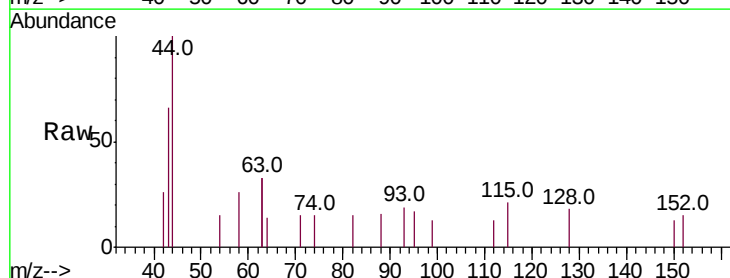
Tgt Ion: 93 Resp: 15

Ion Ratio Lower Upper

93 100

63 0.0 275.3 412.9#

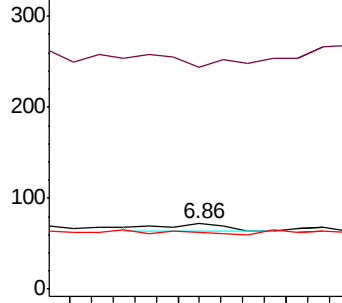
95 0.0 25.2 37.8#



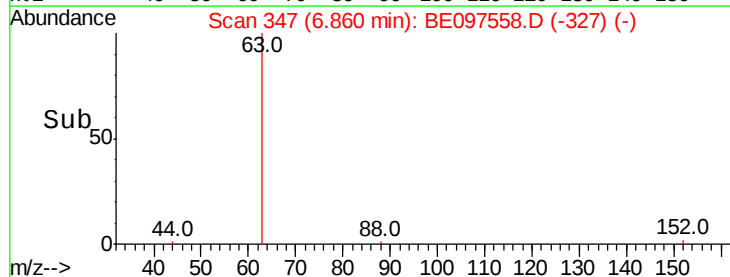
Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.13 min Scan# 612

Delta R.T. 0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 3762

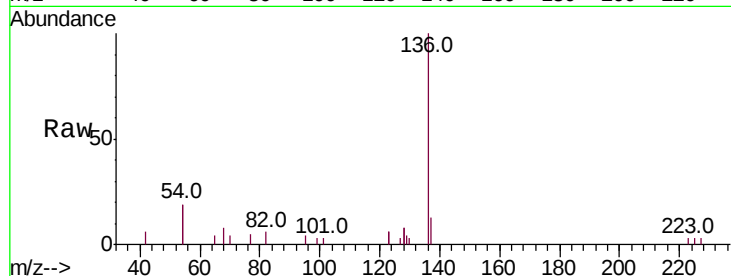
Ion Ratio Lower Upper

136 100

137 12.8 9.5 14.3

54 37.2 29.1 43.7

68 8.0 6.2 9.2

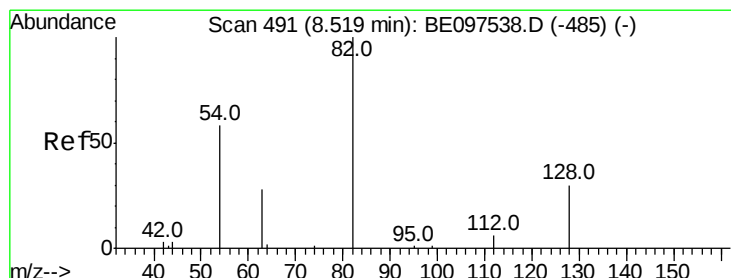
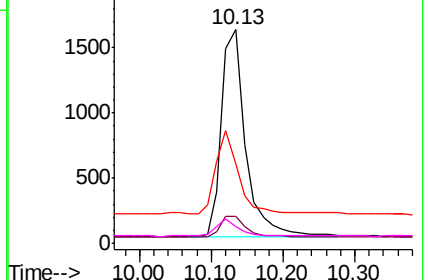
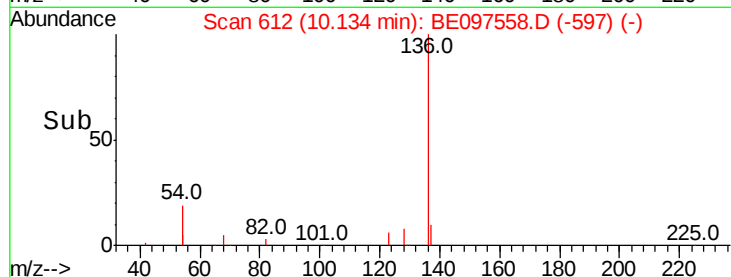


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.425 ng

RT: 8.53 min Scan# 492

Delta R.T. 0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

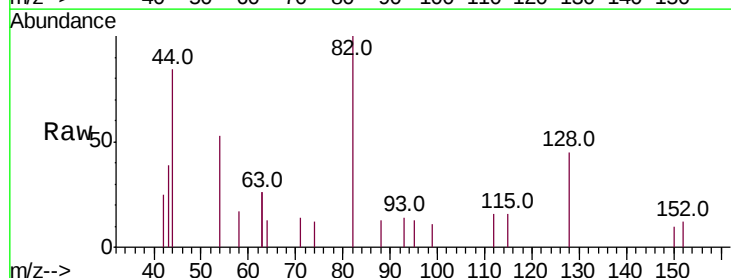
Tgt Ion: 82 Resp: 1234

Ion Ratio Lower Upper

82 100

128 45.0 24.0 36.0#

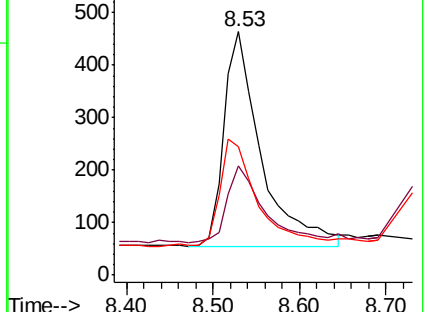
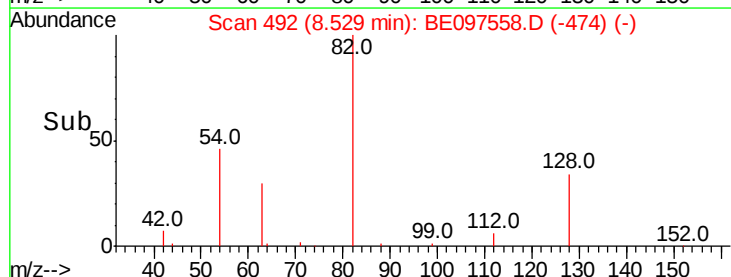
54 52.6 40.0 60.0



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: 0.027 ng

RT: 10.17 min Scan# 615

Delta R.T. 0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

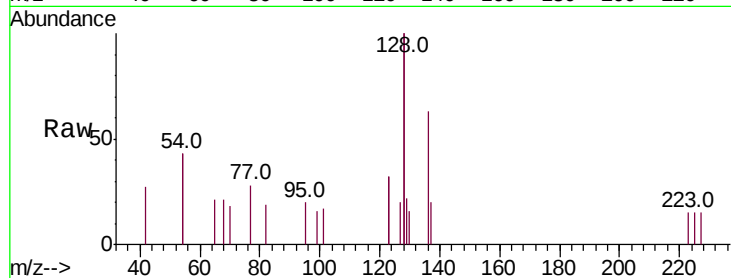
Tot Ion:128 Resp: 928

Ion Ratio Lower Upper

128 100

129 11.1 2.6 3.8#

127 10.0 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.17

600

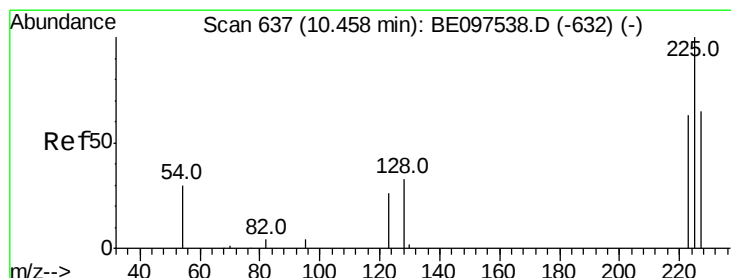
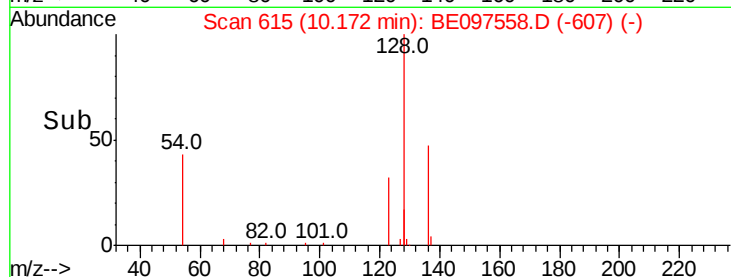
400

200

0

10.10 10.20 10.30

Time-->



#10

Hexachlorobutadiene

Concen: 0.020 ng

RT: 10.46 min Scan# 637

Delta R.T. 0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

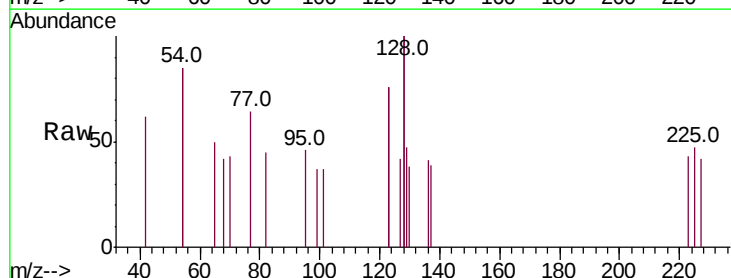
Tgt Ion:225 Resp: 31

Ion Ratio Lower Upper

225 100

223 74.2 53.0 79.6

227 71.0 51.4 77.2



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

10.46

80

60

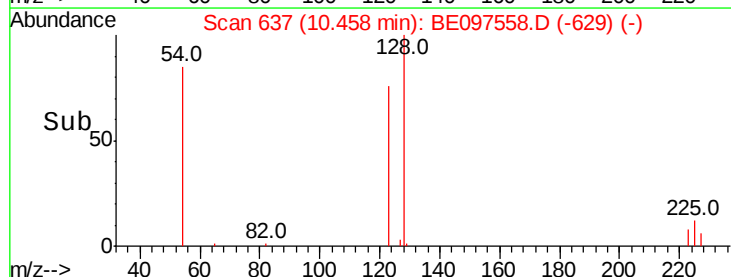
40

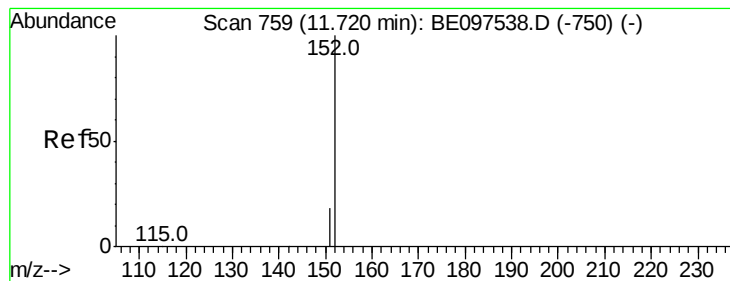
20

0

10.35 10.40 10.45 10.50

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.416 ng

RT: 11.71 min Scan# 757

Delta R.T. -0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

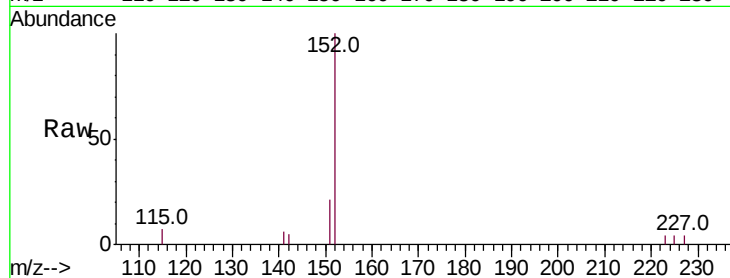
ClientSampleId :

Tot Ion:152 Resp: 2155

Ion Ratio Lower Upper

152 100

151 18.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.71

1200

1000

800

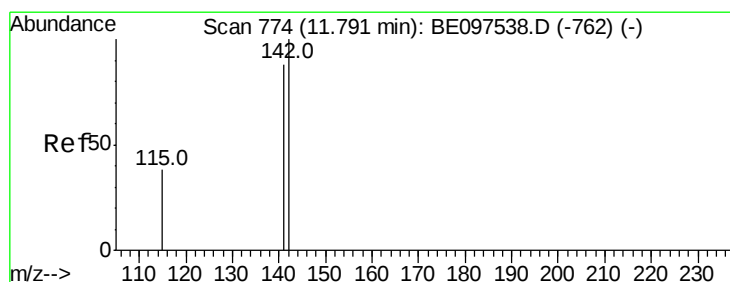
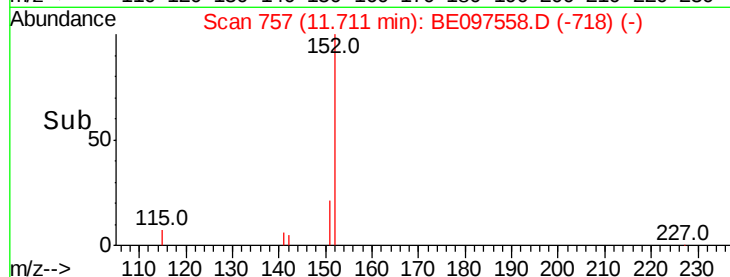
600

400

200

0

Time--> 11.60 11.70 11.80 11.90



#12

2-Methylnaphthalene

Concen: 0.037 ng

RT: 11.79 min Scan# 774

Delta R.T. 0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

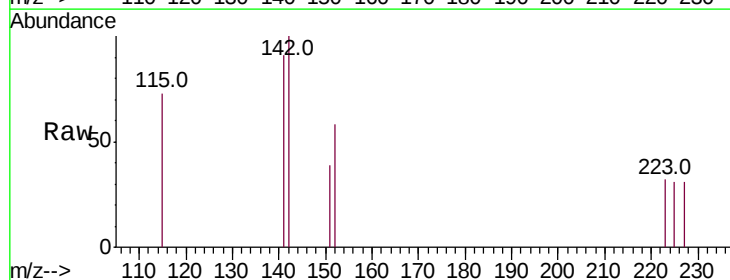
Tgt Ion:142 Resp: 195

Ion Ratio Lower Upper

142 100

141 91.2 70.4 105.6

115 72.8 31.7 47.5#



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

200

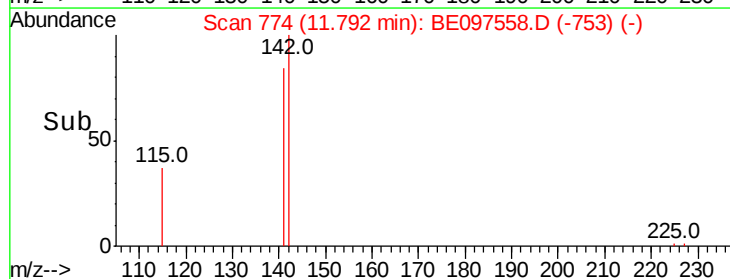
150

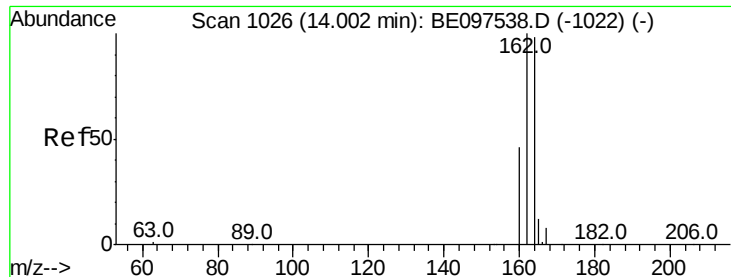
100

50

0

Time--> 11.70 11.80 11.90

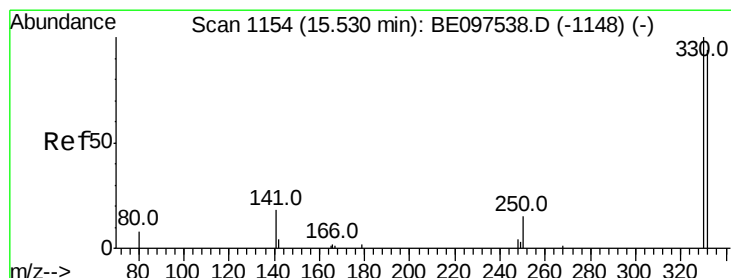
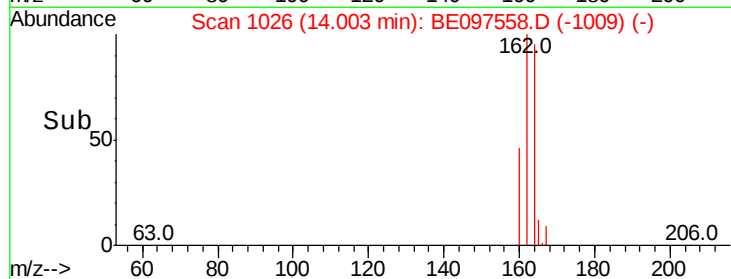
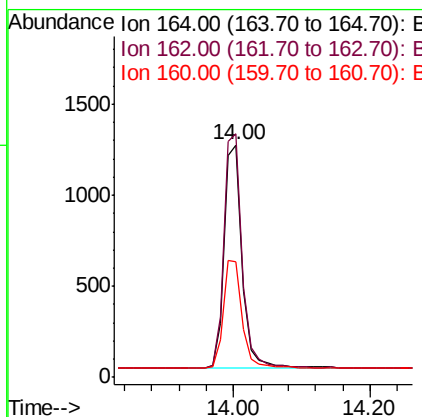
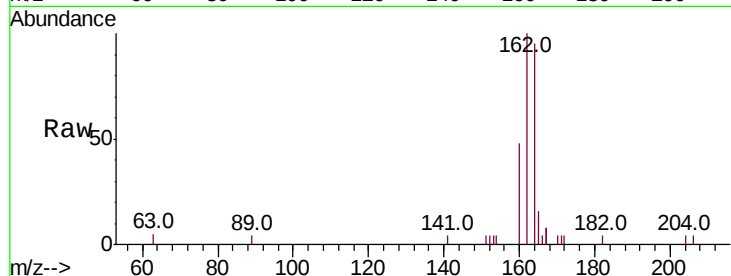




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.00 min Scan# 1026
 Delta R.T. 0.00 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

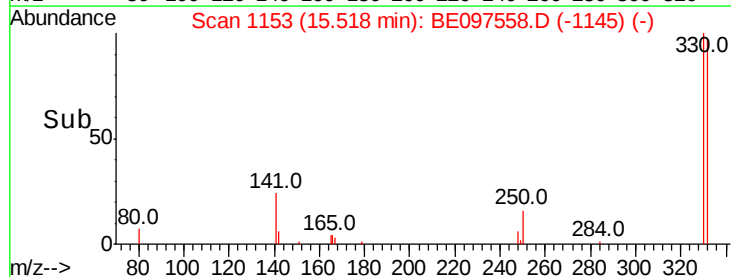
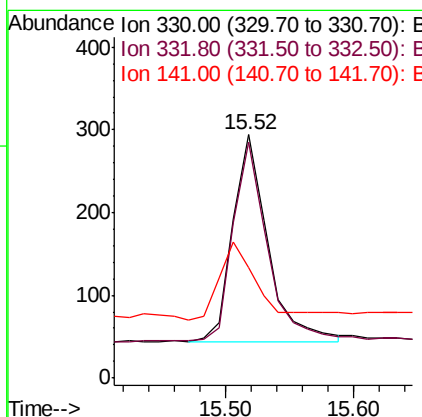
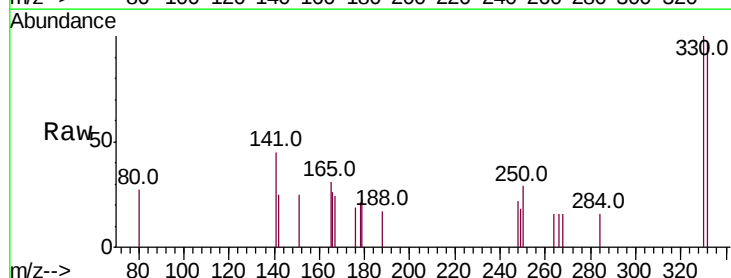
Instrument :
 BNA_E
 ClientSampleId :

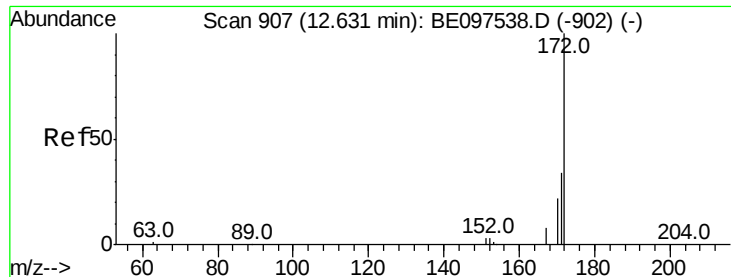
Tot Ion:164 Resp: 2295
 Ion Ratio Lower Upper
 164 100
 162 104.9 83.1 124.7
 160 50.0 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.515 ng
 RT: 15.52 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

Tgt Ion:330 Resp: 475
 Ion Ratio Lower Upper
 330 100
 332 93.3 152.7 229.1#
 141 39.8 33.7 50.5

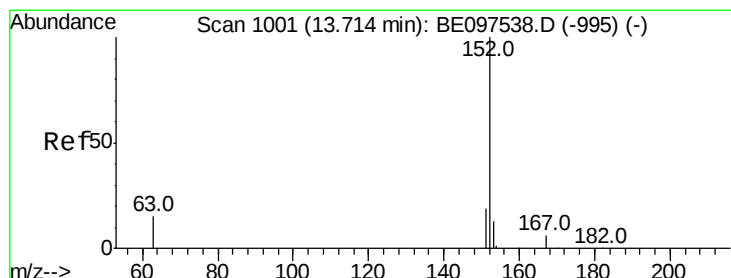
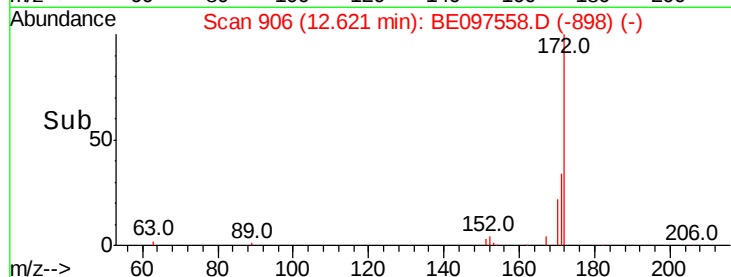
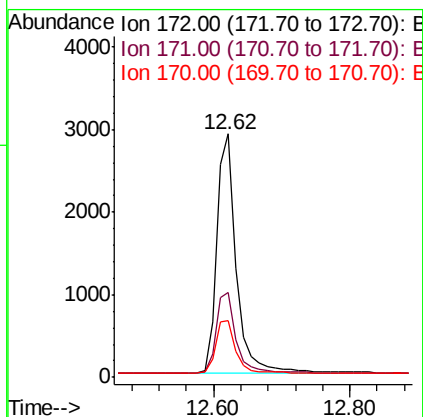
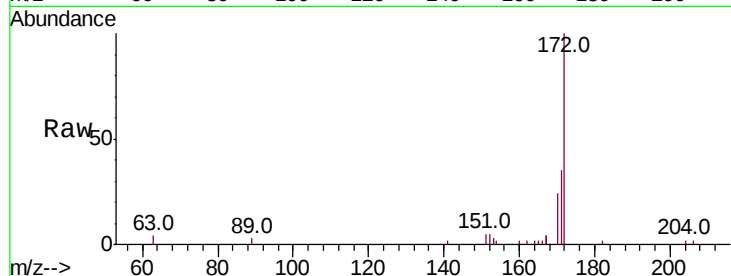




#15
2-Fluorobiphenyl
Concen: 0.728 ng
RT: 12.62 min Scan# 906
Delta R.T. -0.01 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

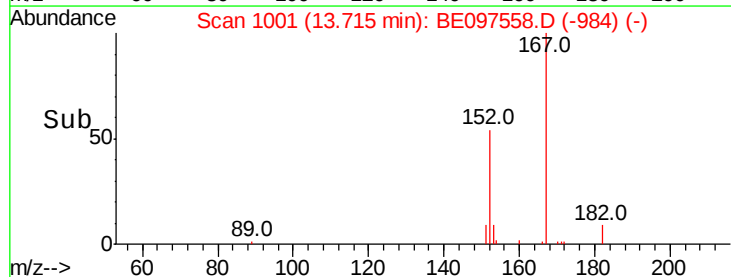
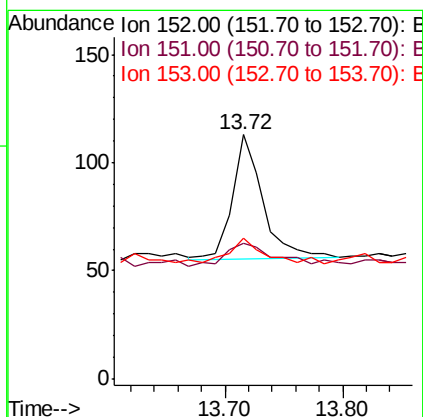
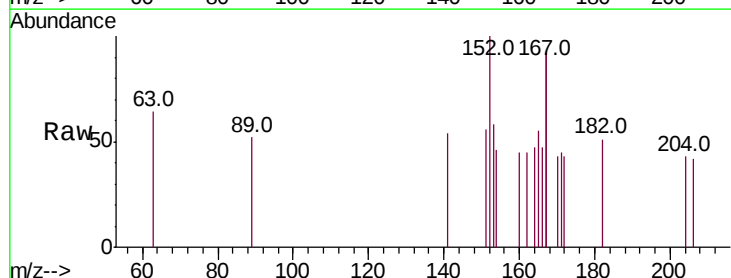
Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 5906
Ion Ratio Lower Upper
172 100
171 34.8 29.9 44.9
170 23.5 21.8 32.8



#16
Acenaphthylene
Concen: 0.012 ng
RT: 13.72 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

Tgt Ion:152 Resp: 105
Ion Ratio Lower Upper
152 100
151 33.3 15.7 23.5#
153 26.7 10.5 15.7#

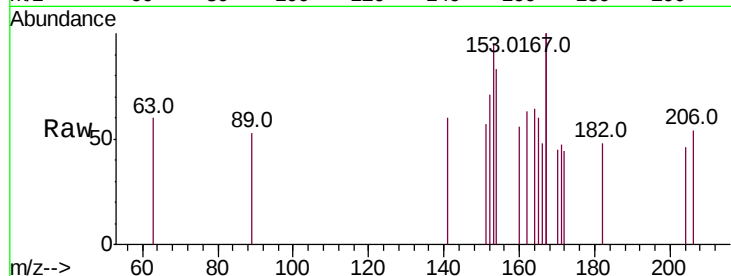




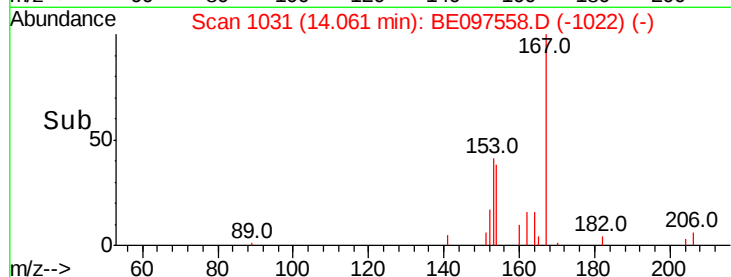
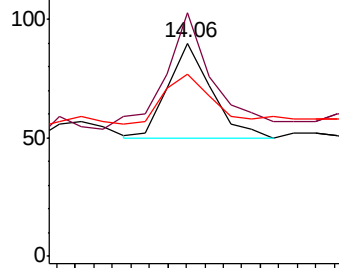
#17
Acenaphthene
Concen: 0.011 ng
RT: 14.06 min Scan# 1031
Delta R.T. 0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

Instrument :
BNA_E
ClientSampleId :

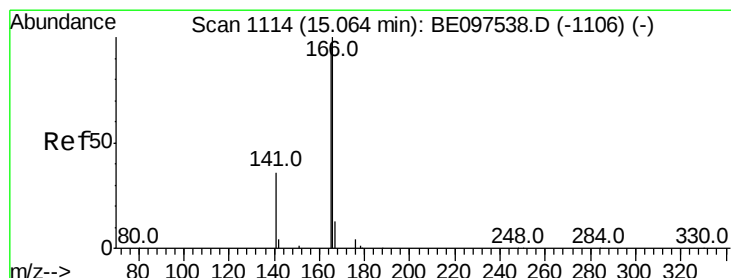
Tot Ion:154 Resp: 66
Ion Ratio Lower Upper
154 100
153 130.3 89.2 133.8
152 62.1 42.0 63.0



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

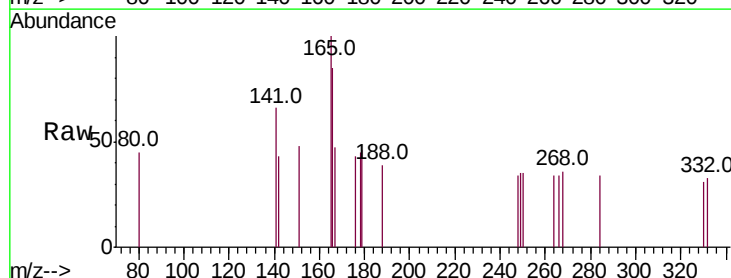


Time-->

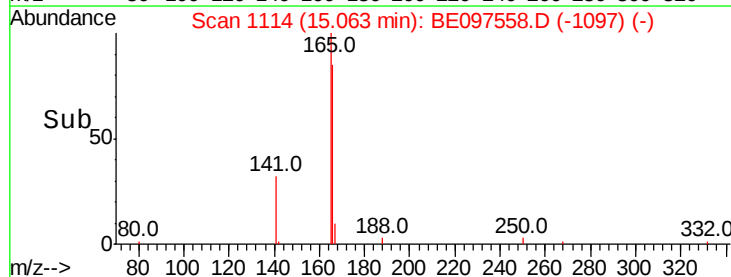
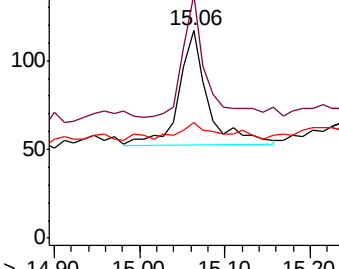


#18
Fluorene
Concen: 0.020 ng
RT: 15.06 min Scan# 1114
Delta R.T. -0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

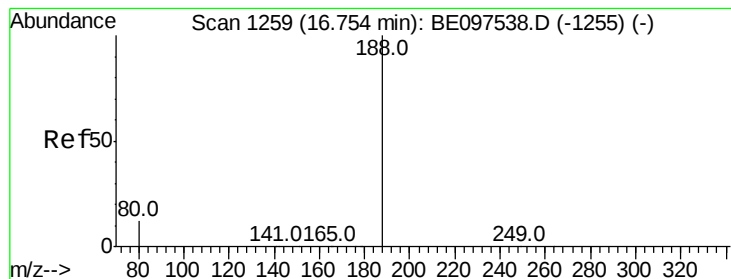
Tgt Ion:166 Resp: 155
Ion Ratio Lower Upper
166 100
165 89.0 77.8 116.6
167 14.2 42.4 63.6#



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



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.75 min Scan# 1259

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampled :

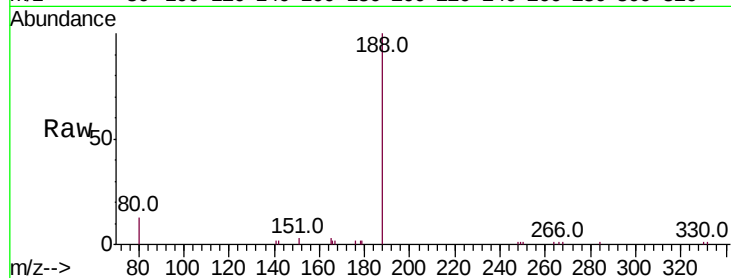
Tot Ion:188 Resp: 7084

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

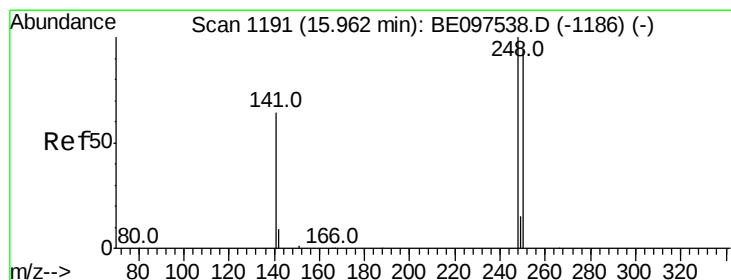
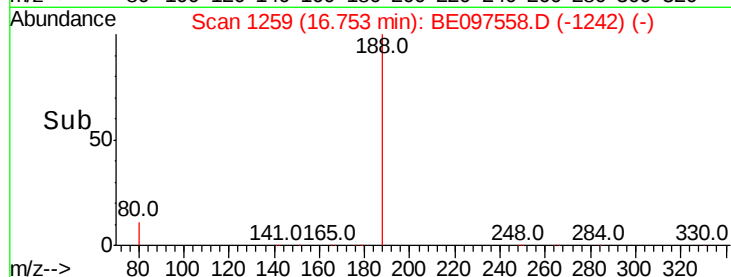
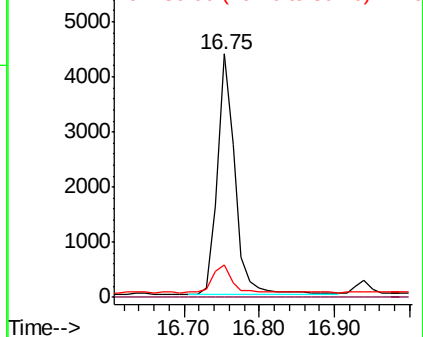
80 13.2 3.6 5.4#



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: 0.014 ng

RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

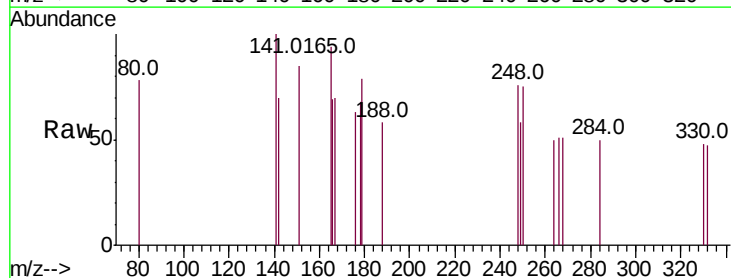
Tgt Ion:248 Resp: 45

Ion Ratio Lower Upper

248 100

250 98.6 62.7 94.1#

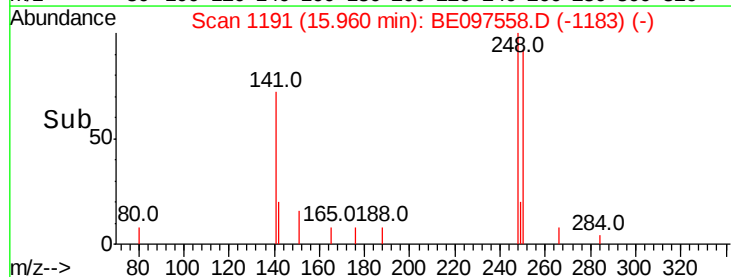
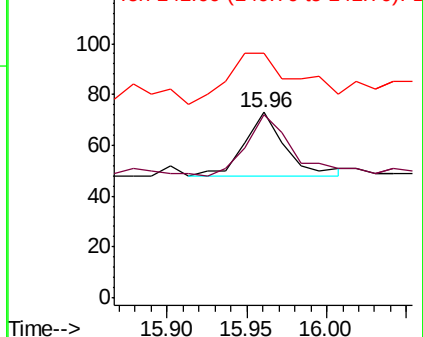
141 131.5 48.2 72.2#



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

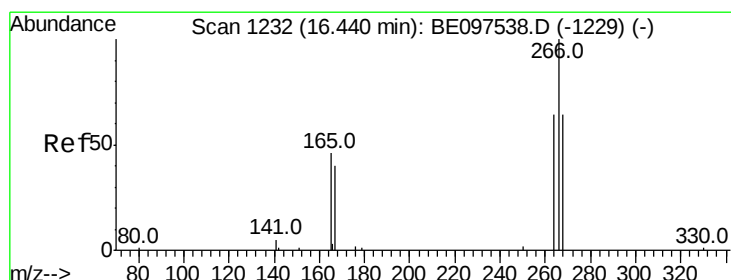
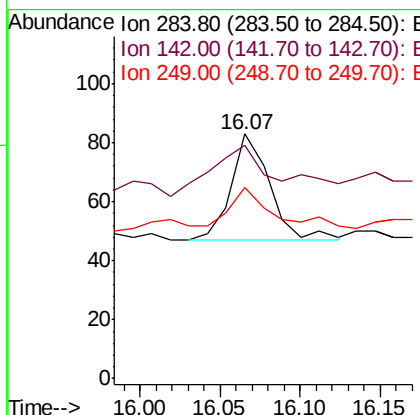
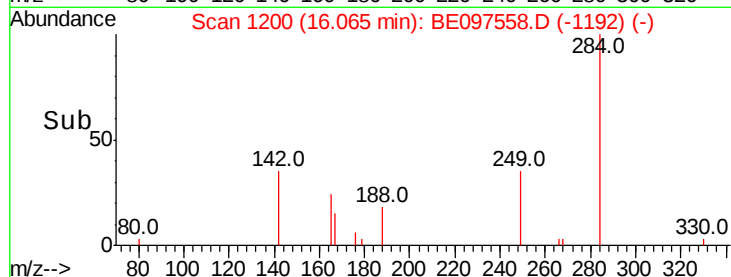
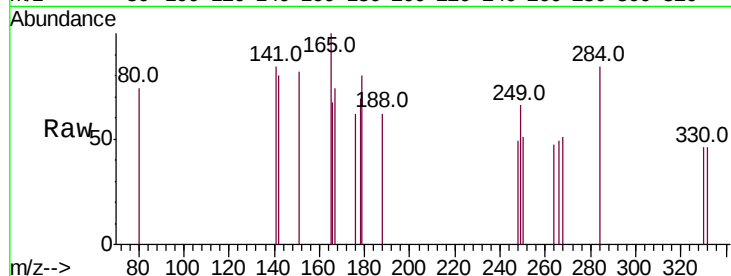




#21
Hexachlorobenzene
Concen: 0.017 ng
RT: 16.07 min Scan# 1200
Delta R.T. -0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

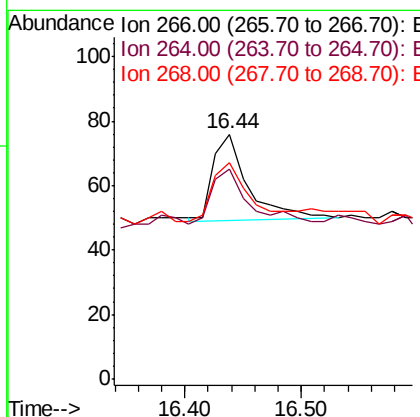
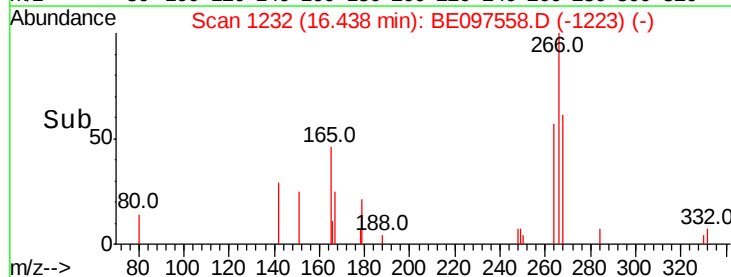
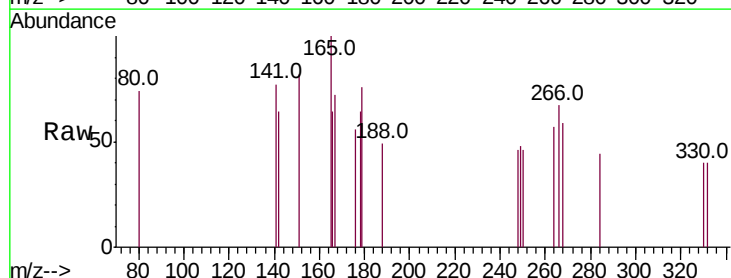
Instrument :
BNA_E
ClientSampled :

Tot Ion:284 Resp: 60
Ion Ratio Lower Upper
284 100
142 63.3 22.1 33.1#
249 38.3 34.8 52.2



#22
Pentachlorophenol
Concen: 0.165 ng
RT: 16.44 min Scan# 1232
Delta R.T. -0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

Tgt Ion:266 Resp: 56
Ion Ratio Lower Upper
266 100
264 85.5 72.5 108.7
268 88.2 73.8 110.6





#23

Phenanthrene

Concen: 0.022 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

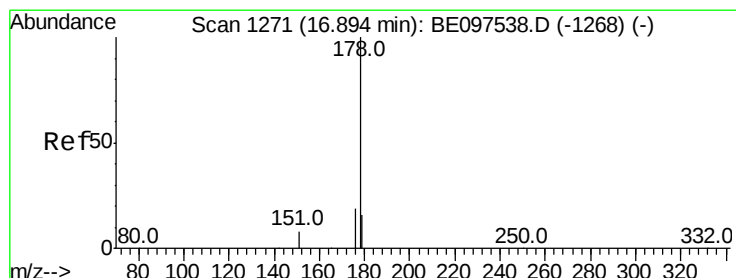
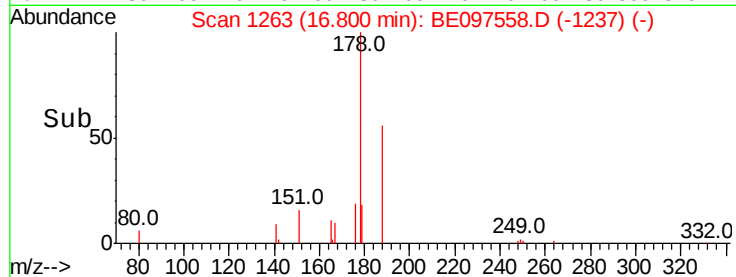
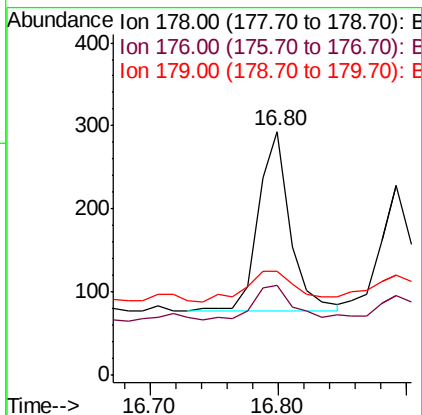
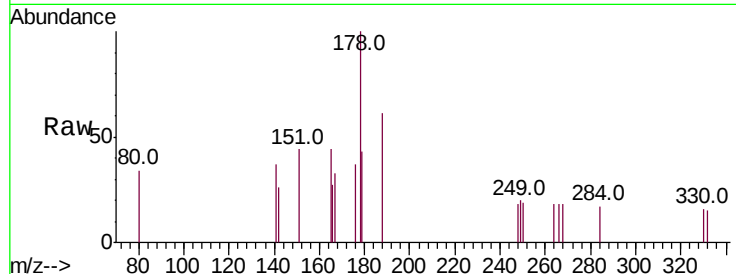
Tot Ion:178 Resp: 376

Ion Ratio Lower Upper

178 100

176 26.1 15.1 22.7#

179 26.9 11.8 17.6#



#24

Anthracene

Concen: 0.017 ng

RT: 16.89 min Scan# 1271

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

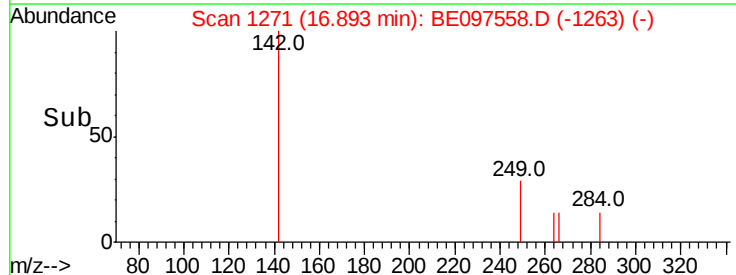
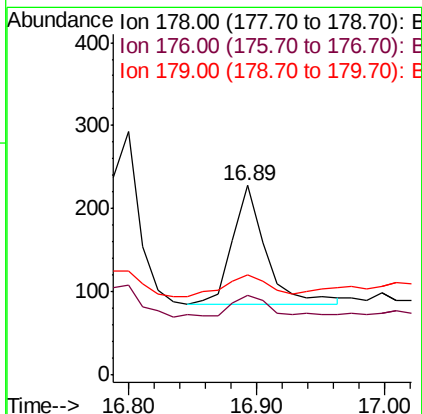
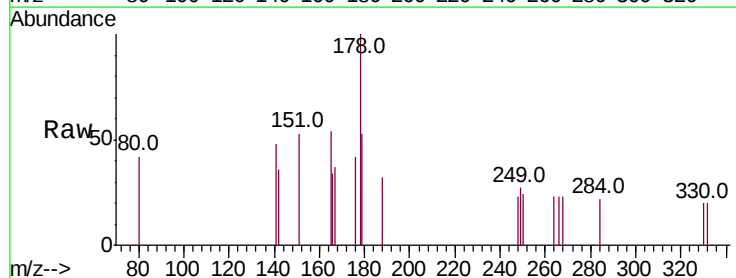
Tgt Ion:178 Resp: 260

Ion Ratio Lower Upper

178 100

176 19.2 12.8 19.2#

179 23.8 13.0 19.6#





#25

Fluoranthene-d10

Concen: 0.425 ng

RT: 18.80 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

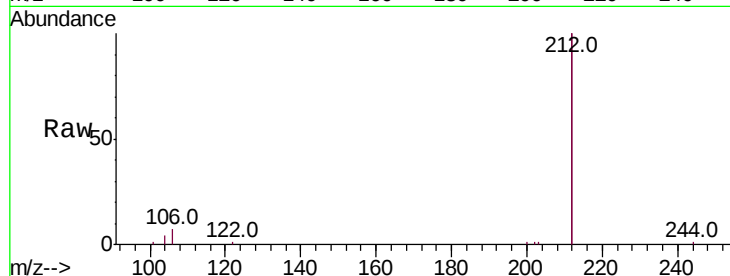
Tot Ion:212 Resp: 38579

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

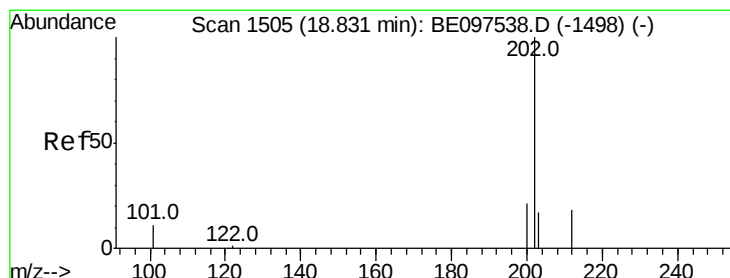
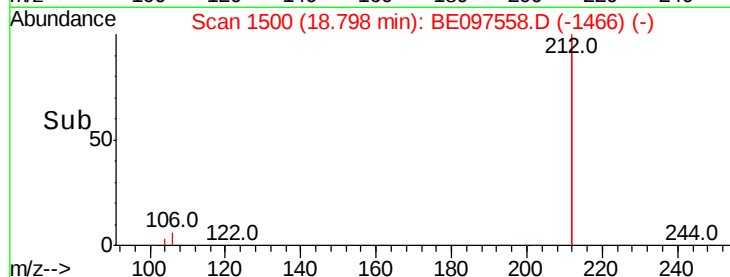
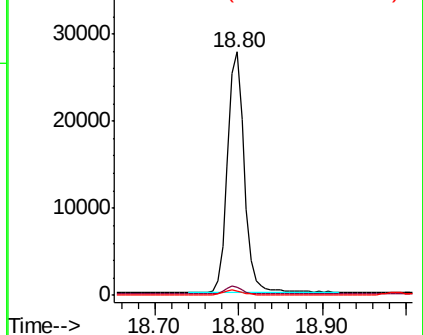
104 1.9 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.025 ng

RT: 18.83 min Scan# 1505

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

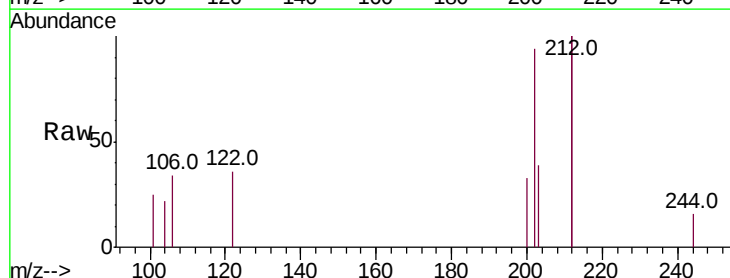
Tgt Ion:202 Resp: 575

Ion Ratio Lower Upper

202 100

101 18.1 9.8 14.8#

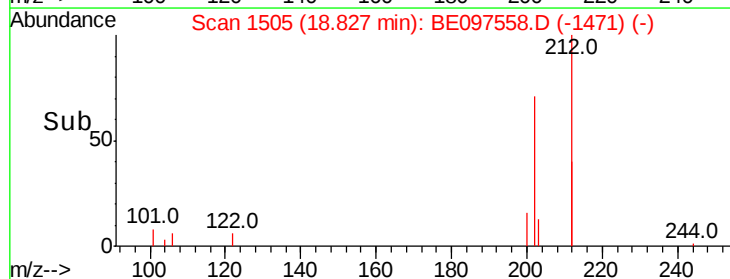
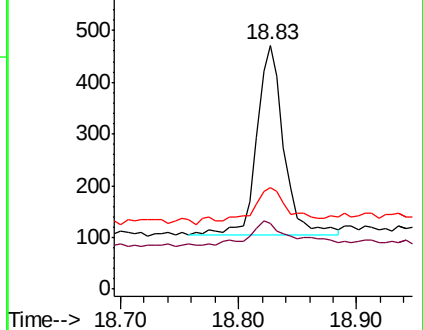
203 20.9 13.7 20.5#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.97 min Scan# 1786

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampled :

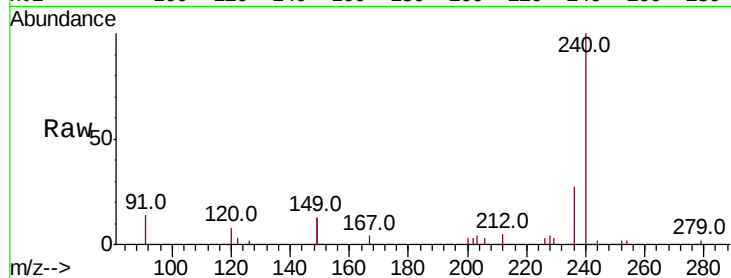
Tot Ion:240 Resp: 9811

Ion Ratio Lower Upper

240 100

120 8.1 5.5 8.3

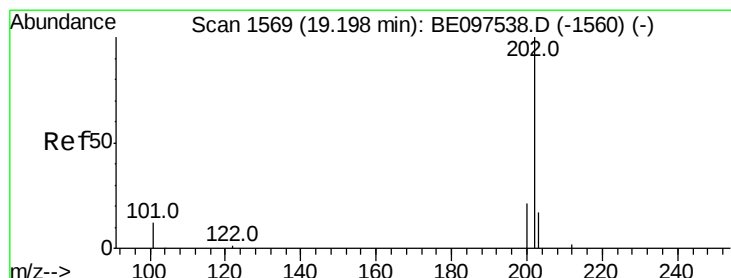
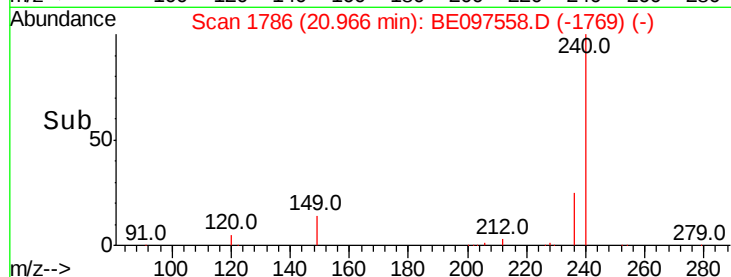
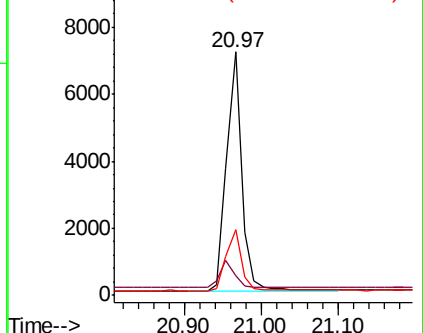
236 27.1 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.026 ng

RT: 19.19 min Scan# 1569

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

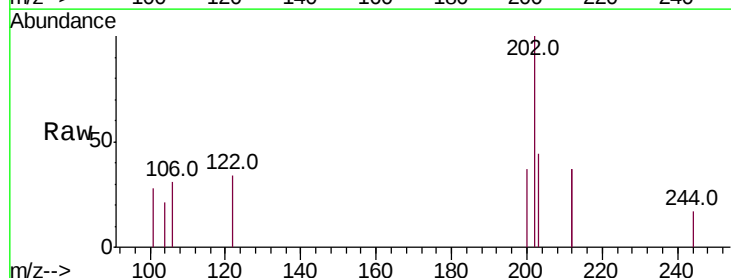
Tgt Ion:202 Resp: 584

Ion Ratio Lower Upper

202 100

200 25.7 16.6 25.0#

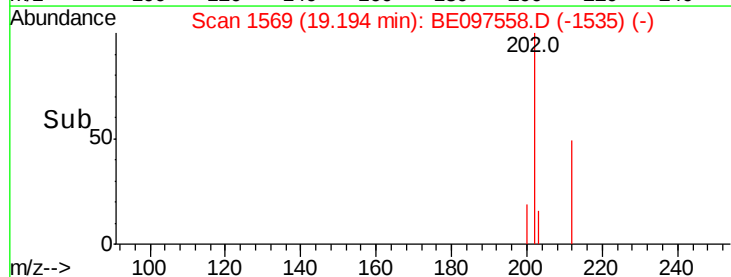
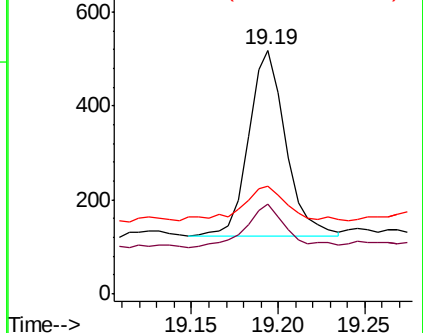
203 20.2 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.539 ng

RT: 19.41 min Scan# 1607

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

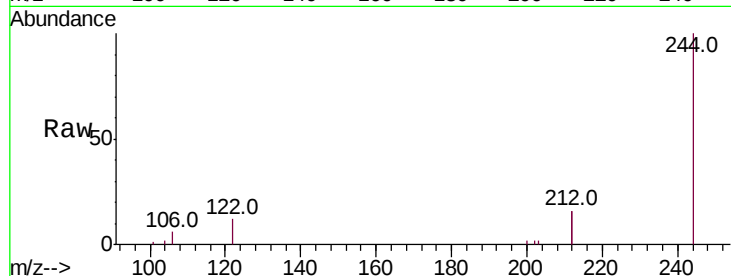
Tot Ion:244 Resp: 9678

Ion Ratio Lower Upper

244 100

212 32.6 25.4 38.0

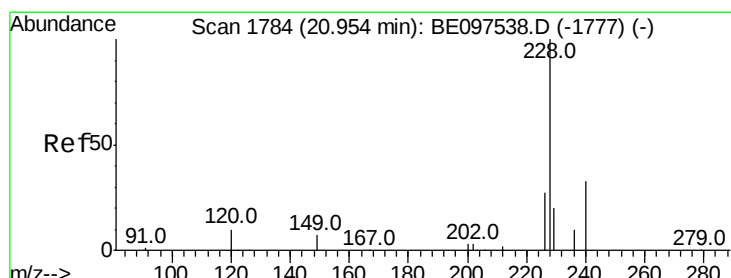
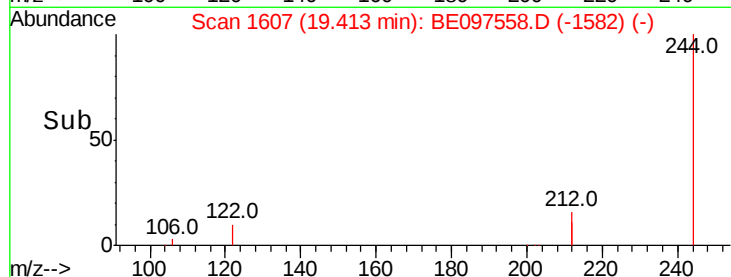
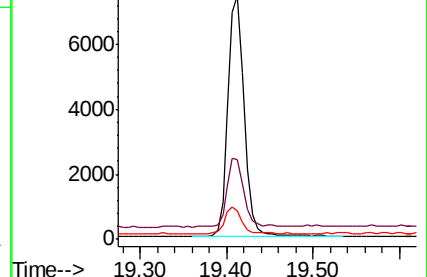
122 12.0 8.1 12.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.030 ng

RT: 20.95 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

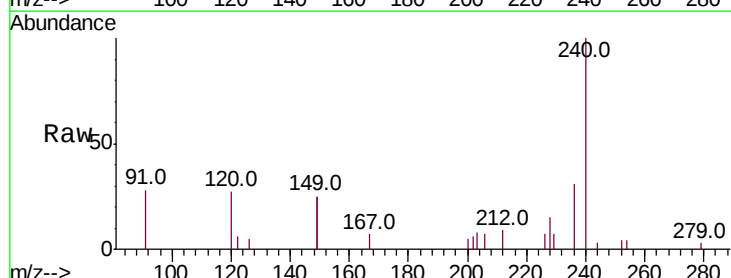
Tgt Ion:228 Resp: 730

Ion Ratio Lower Upper

228 100

226 48.6 24.0 36.0#

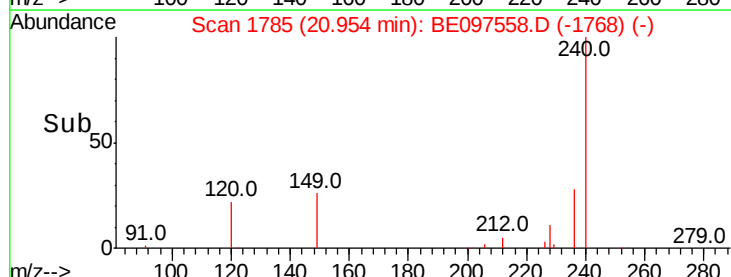
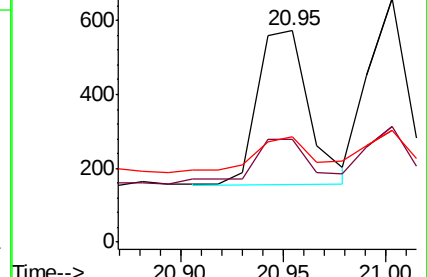
229 49.7 16.0 24.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.025 ng

RT: 21.00 min Scan# 1789

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

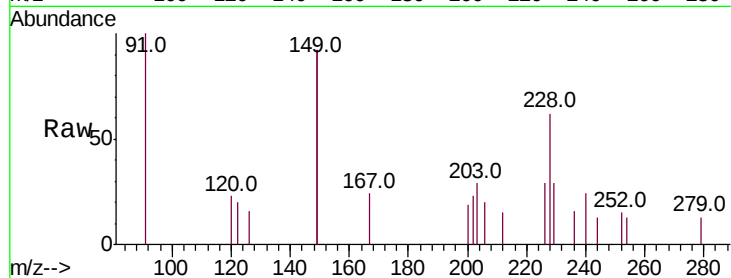
Tot Ion:228 Resp: 674

Ion Ratio Lower Upper

228 100

226 47.3 24.0 36.0#

229 45.8 16.0 24.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

21.00

600

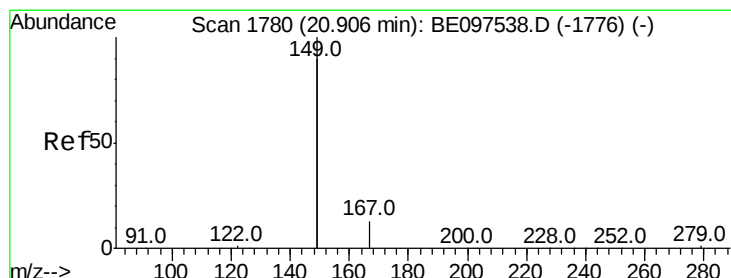
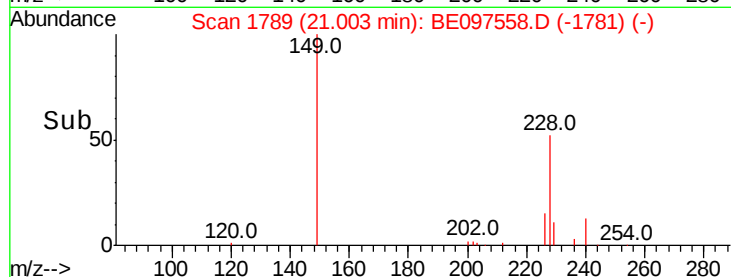
400

200

0

20.95 21.00 21.05

Time-->



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.217 ng

RT: 20.91 min Scan# 1781

Delta R.T. -0.00 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

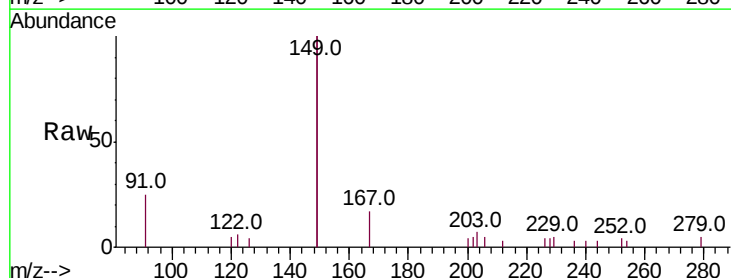
Tgt Ion:149 Resp: 8584

Ion Ratio Lower Upper

149 100

167 7.4 5.4 8.0

279 1.1 0.7 1.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

20.91

10000

8000

6000

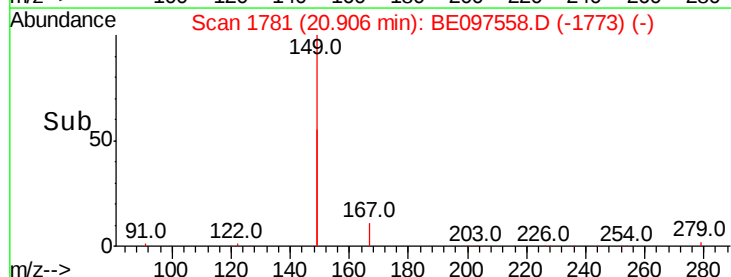
4000

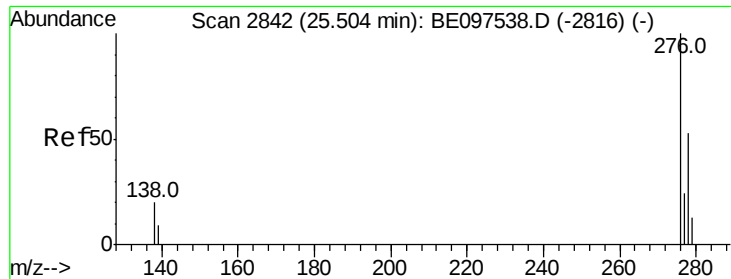
2000

0

20.80 20.85 20.90 20.95

Time-->

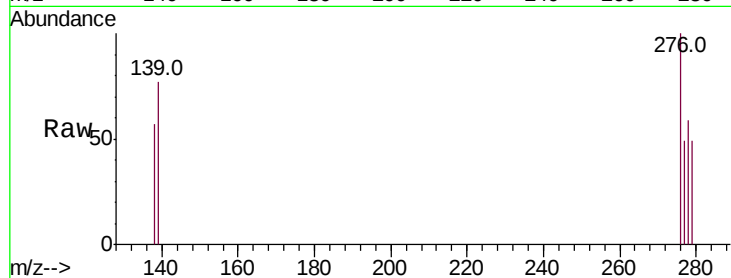




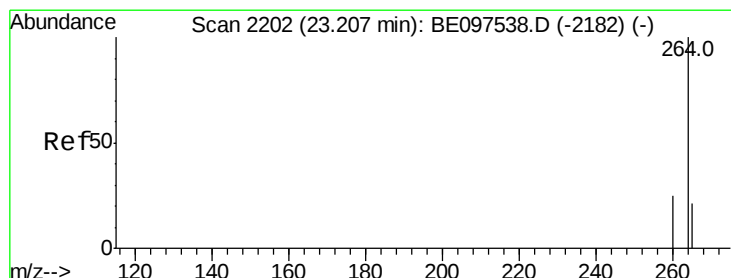
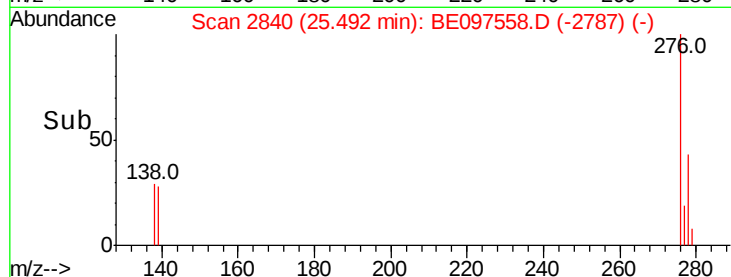
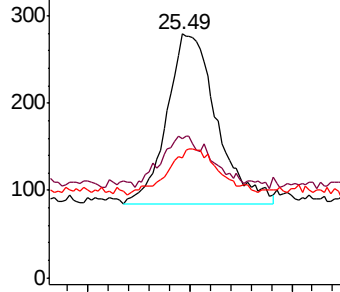
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.021 ng
 RT: 25.49 min Scan# 2840
 Delta R.T. -0.01 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 657
 Ion Ratio Lower Upper
 276 100
 138 29.8 22.5 33.7
 277 28.2 19.9 29.9

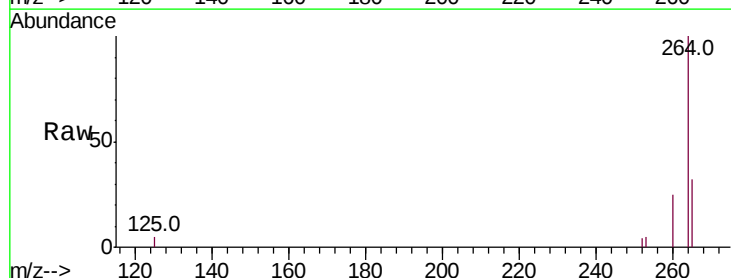


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

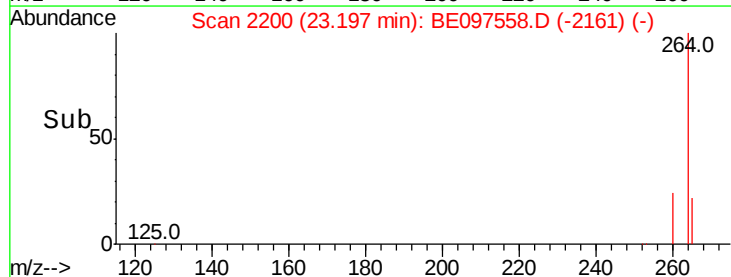
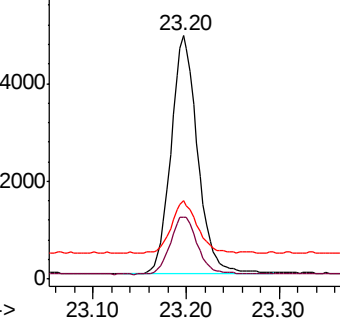


#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.20 min Scan# 2200
 Delta R.T. -0.01 min
 Lab File: BE097558.D
 Acq: 20 Sep 2018 2:13

Tgt Ion:264 Resp: 9697
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.5 30.7
 265 32.1 22.8 34.2



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

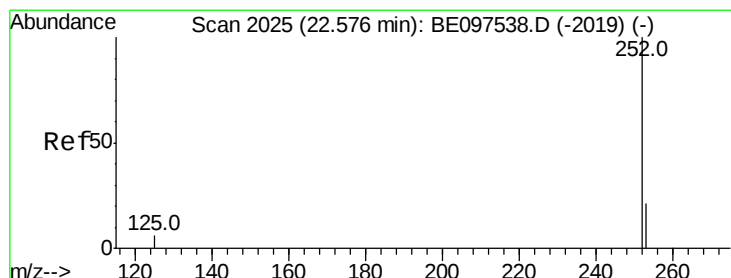
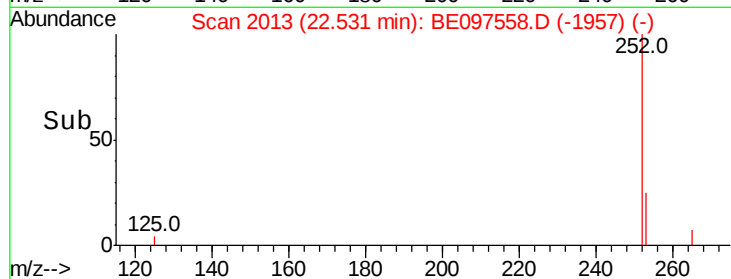
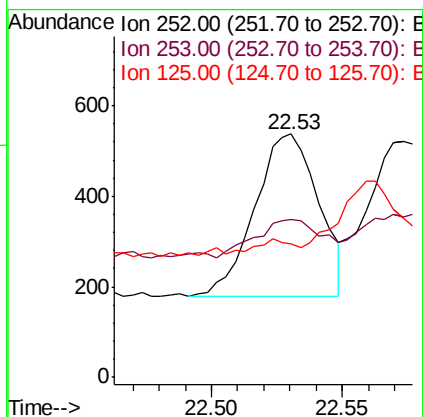
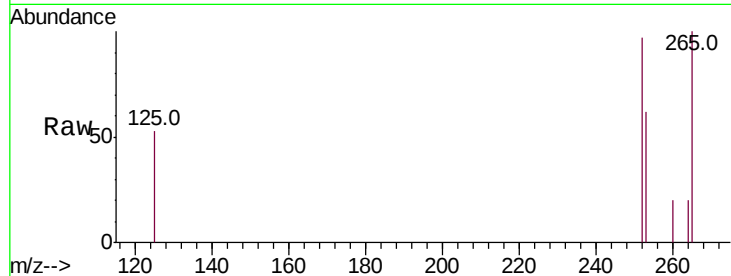




#35
Benzo(b)fluoranthene
Concen: 0.025 ng
RT: 22.53 min Scan# 2013
Delta R.T. 0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

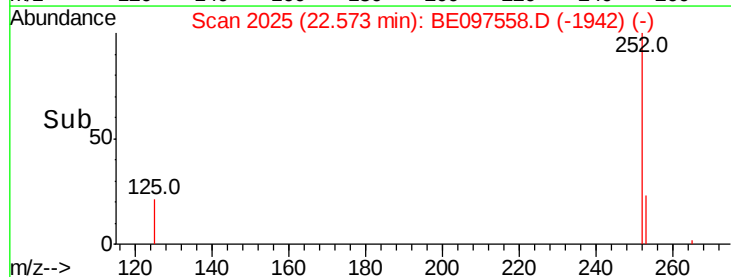
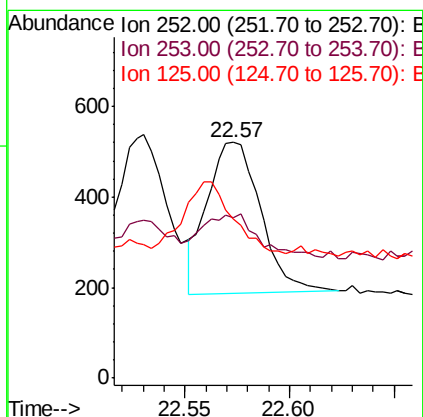
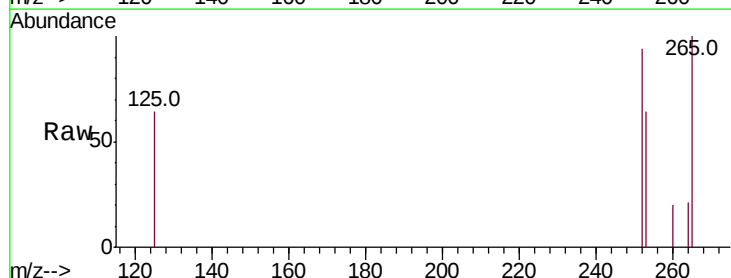
Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 611
Ion Ratio Lower Upper
252 100
253 64.7 20.0 30.0#
125 55.0 16.0 24.0#



#36
Benzo(k)fluoranthene
Concen: 0.021 ng
RT: 22.57 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BE097558.D
Acq: 20 Sep 2018 2:13

Tgt Ion:252 Resp: 596
Ion Ratio Lower Upper
252 100
253 68.1 16.0 24.0#
125 67.5 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.046 ng

RT: 23.10 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :

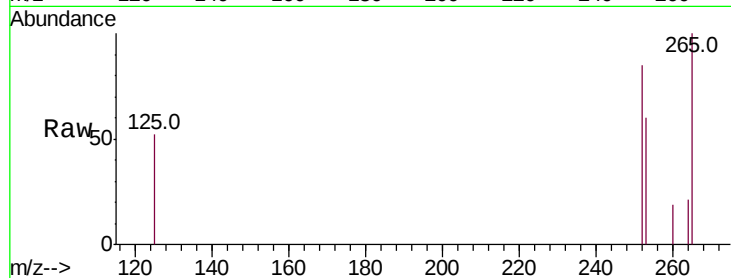
Tot Ion:252 Resp: 653

Ion Ratio Lower Upper

252 100

253 71.3 16.0 24.0#

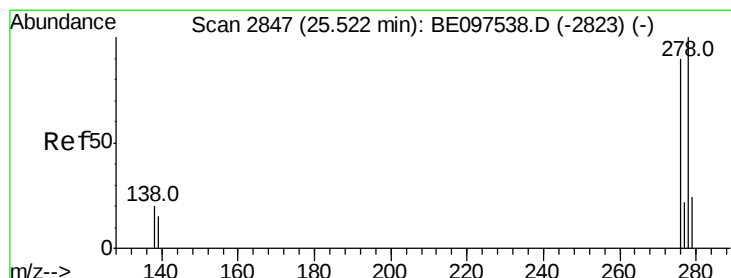
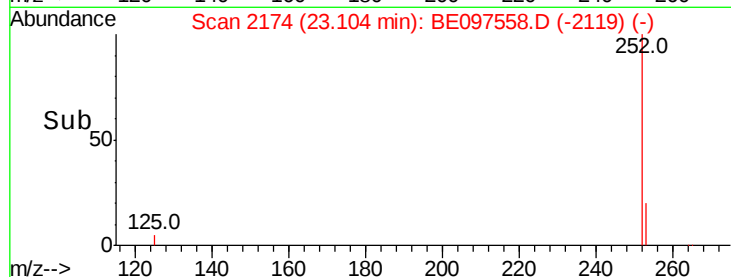
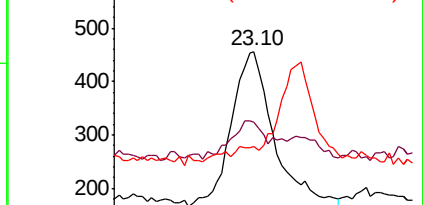
125 61.2 12.0 18.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.018 ng

RT: 25.51 min Scan# 2846

Delta R.T. -0.01 min

Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

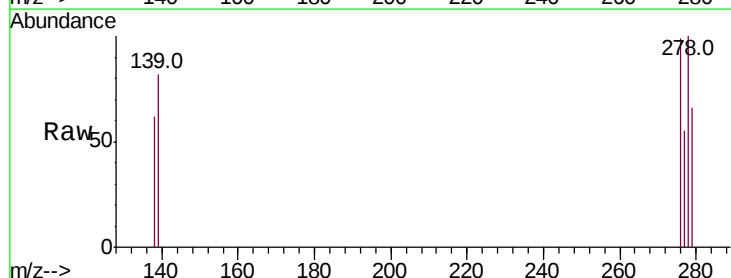
Tgt Ion:278 Resp: 479

Ion Ratio Lower Upper

278 100

139 82.3 16.0 24.0#

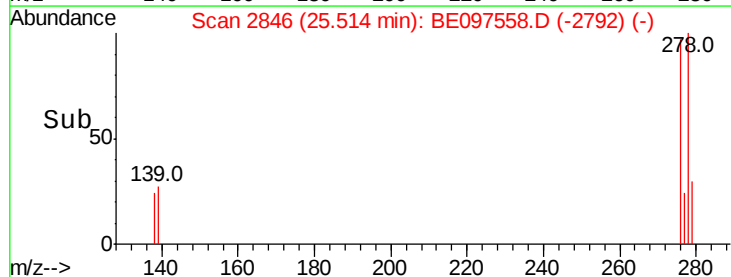
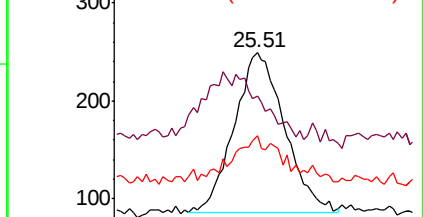
279 66.3 20.0 30.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.021 ng

RT: 26.20 min Scan# 3038

Delta R.T. -0.00 min

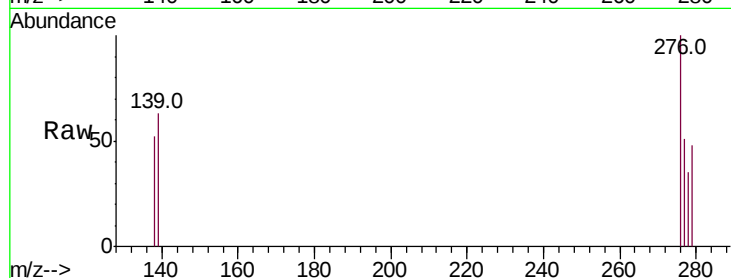
Lab File: BE097558.D

Acq: 20 Sep 2018 2:13

Instrument :

BNA_E

ClientSampleId :



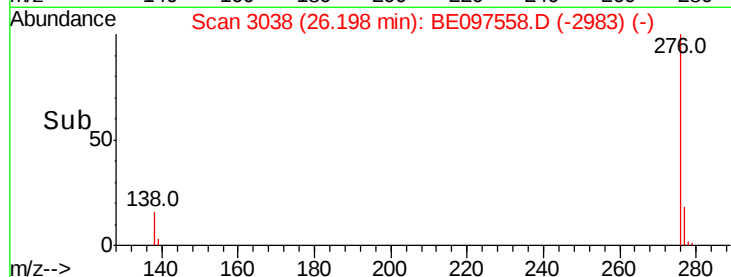
Tot Ion: 276 Resp: 527

Ion Ratio Lower Upper

276 100

277 51.2 16.0 24.0#

138 51.6 20.0 30.0#



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

