

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE073118\
 Data File : BE097116.D
 Acq On : 31 Jul 2018 11:08
 Operator : SJ/JU
 Sample : J4211-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 31 12:47:11 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE072418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 31 10:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	1432	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	7063	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	4641	0.40	ng	0.00
19) Phenanthrene-d10	16.76	188	13408	0.40	ng	0.00
27) Chrysene-d12	20.98	240	15206	0.40	ng	0.00
34) Perylene-d12	23.21	264	14021	0.40	ng	0.00

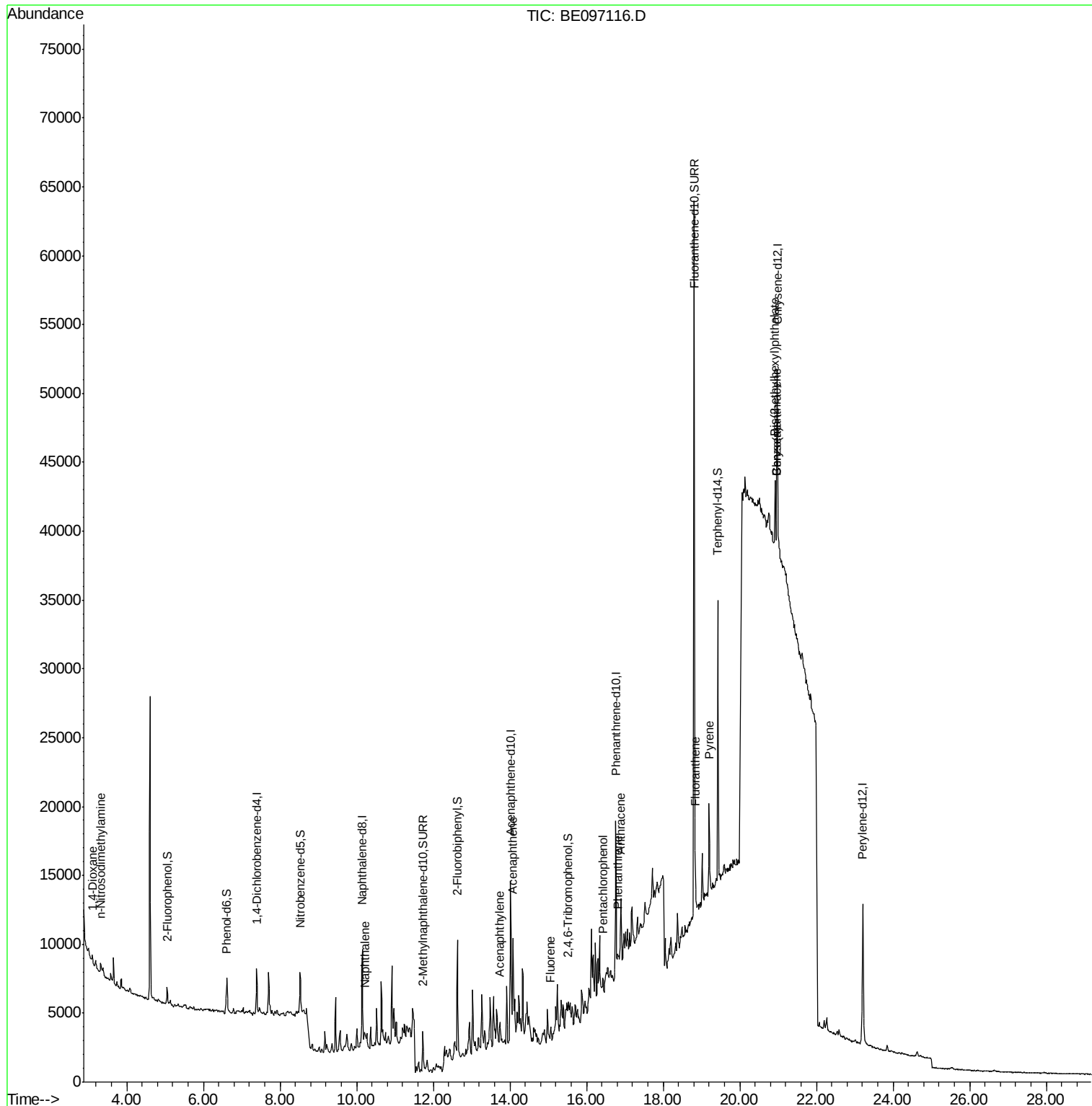
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.05	112	595	0.15	ng	0.00
5) Phenol-d6	6.59	99	493	0.08	ng	0.00
8) Nitrobenzene-d5	8.52	82	2659	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	11.73	152	4265	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.52	330	831	0.54	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	7696	0.48	ng	0.00
25) Fluoranthene-d10	18.81	212	66688	0.50	ng	0.00
29) Terphenyl-d14	19.43	244	18887	0.65	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.09	88	240	0.105	ng	# 52
3) n-Nitrosodimethylamine	3.31	42	299	0.118	ng	# 1
9) Naphthalene	10.21	128	1635	0.026	ng	# 59
16) Acenaphthylene	13.74	152	525	0.025	ng	# 34
17) Acenaphthene	14.07	154	3487	0.288	ng	# 90
18) Fluorene	15.06	166	449	0.028	ng	# 76
22) Pentachlorophenol	16.43	266	207	0.158	ng	# 79
23) Phenanthrene	16.81	178	1606	0.050	ng	# 83
24) Anthracene	16.89	178	5527	0.193	ng	# 73
26) Fluoranthene	18.84	202	3678	0.103	ng	# 90
28) Pyrene	19.20	202	6512	0.156	ng	# 92
30) Benzo(a)anthracene	20.96	228	2264	0.060	ng	# 1
31) Chrysene	20.96	228	2147	0.053	ng	# 1
32) Bis(2-ethylhexyl)phthalate	20.92	149	7141	0.179	ng	# 92

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

```
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ALS Vial  : 5      Sample Multiplier: 1
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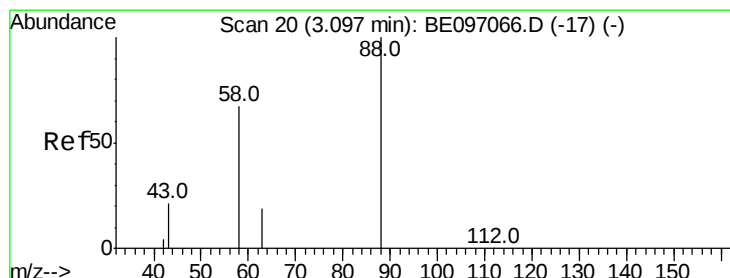
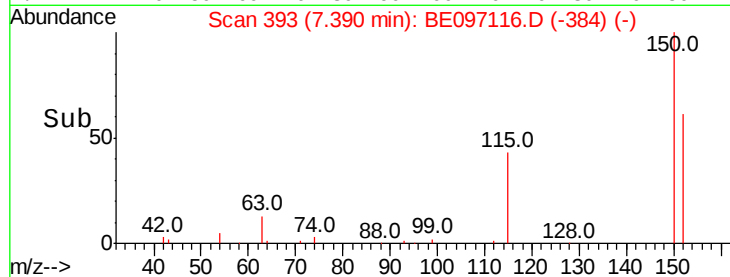
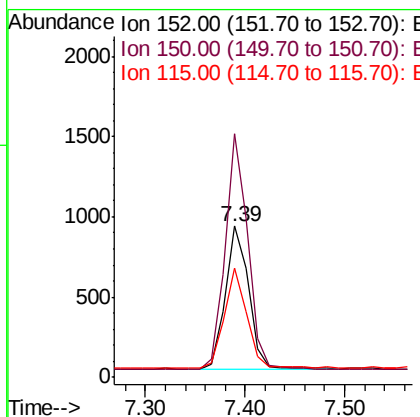
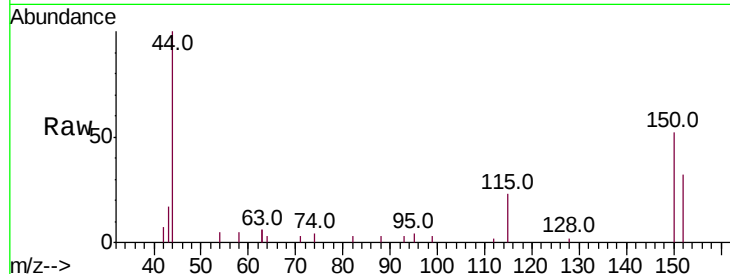




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.39 min Scan# 393
 Delta R.T. -0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

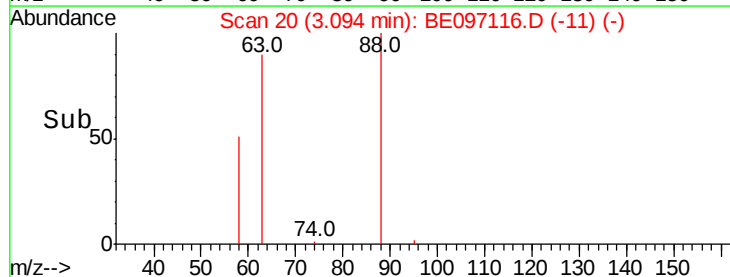
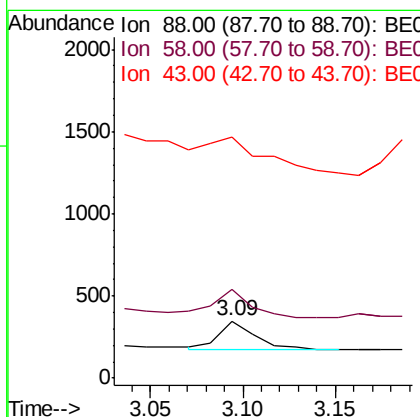
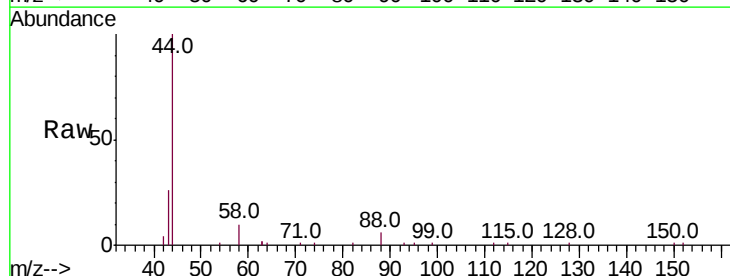
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:152 Resp: 1432
 Ion Ratio Lower Upper
 152 100
 150 161.2 117.2 175.8
 115 72.5 57.0 85.6



#2
 1,4-Dioxane
 Concen: 0.105 ng
 RT: 3.09 min Scan# 20
 Delta R.T. -0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

Tgt Ion: 88 Resp: 240
 Ion Ratio Lower Upper
 88 100
 58 105.8 63.2 94.8#
 43 0.0 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.118 ng

RT: 3.31 min Scan# 39

Delta R.T. -0.07 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

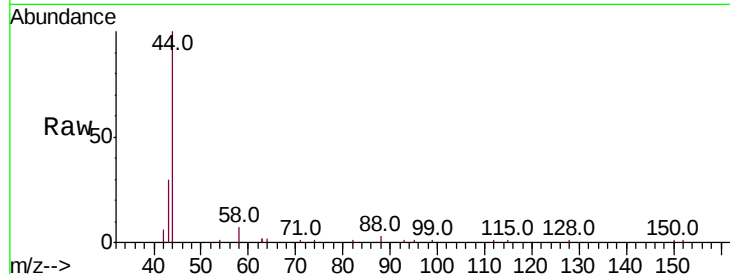
Tot Ion: 42 Resp: 299

Ion Ratio Lower Upper

42 100

74 3.3 96.0 144.0#

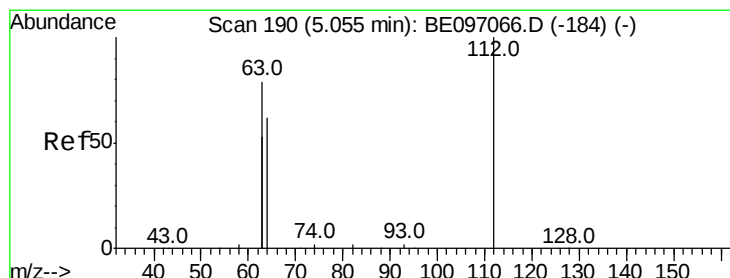
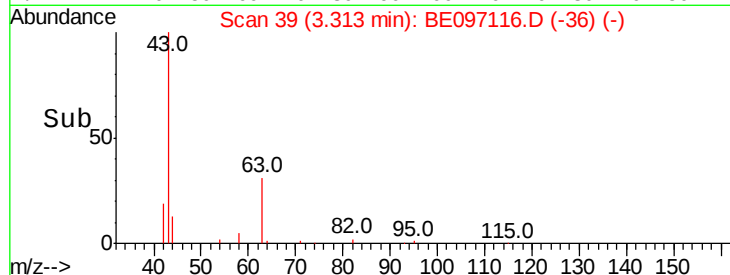
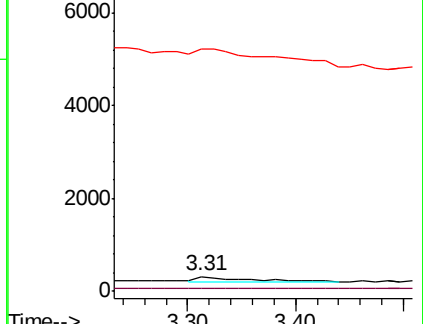
44 577.6 12.0 18.0#



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: 0.148 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

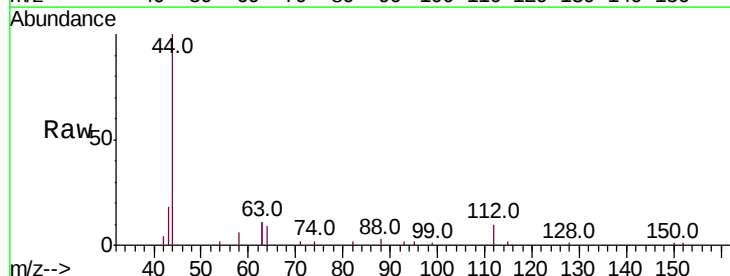
Tgt Ion: 112 Resp: 595

Ion Ratio Lower Upper

112 100

64 68.2 60.1 90.1

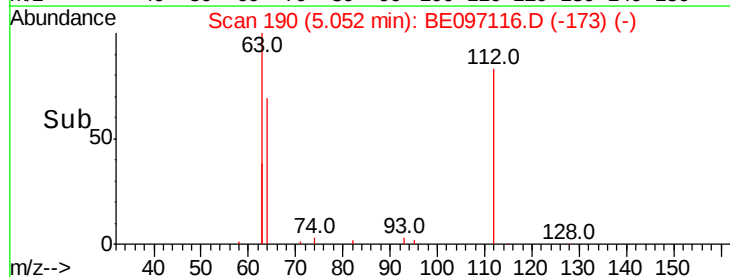
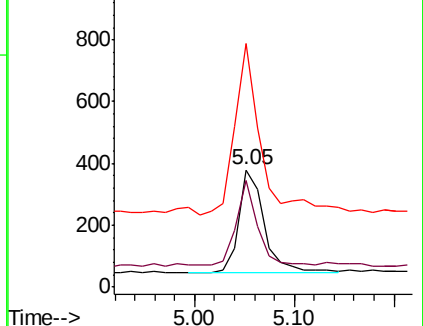
63 174.5 116.8 175.2

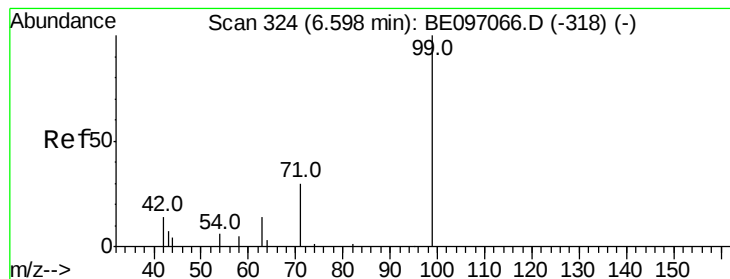


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.083 ng

RT: 6.59 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

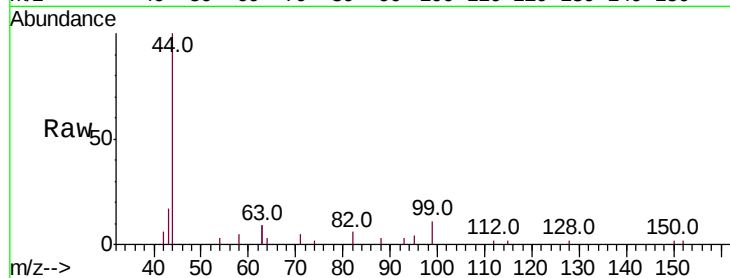
Tot Ion: 99 Resp: 493

Ion Ratio Lower Upper

99 100

42 49.5 20.2 30.2#

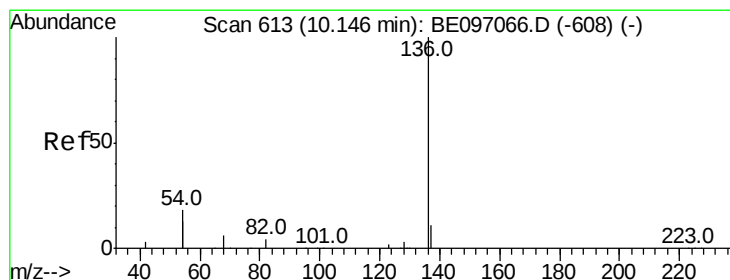
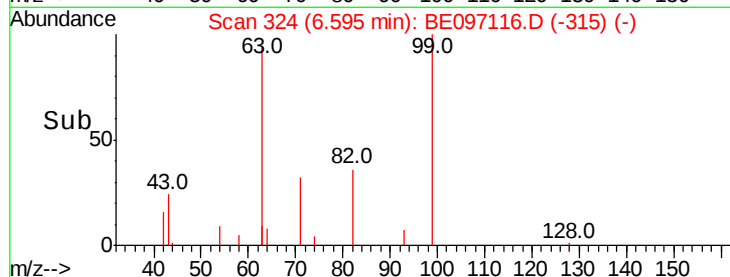
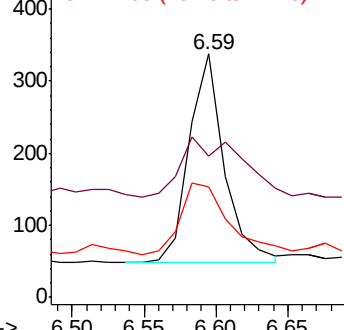
71 46.9 28.4 42.6#



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Tgt Ion:136 Resp: 7063

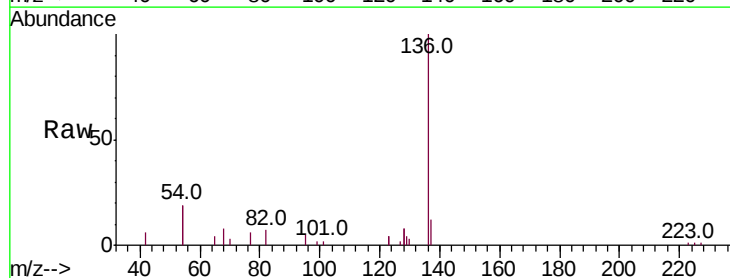
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 37.0 29.1 43.7

68 8.3 6.2 9.2

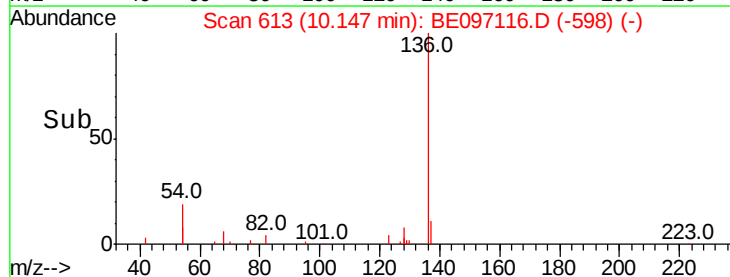
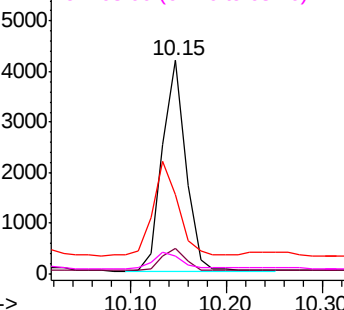


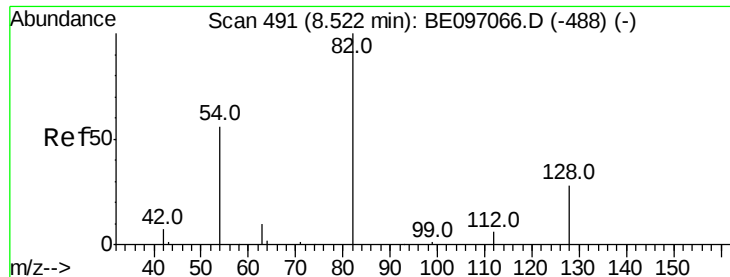
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.433 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

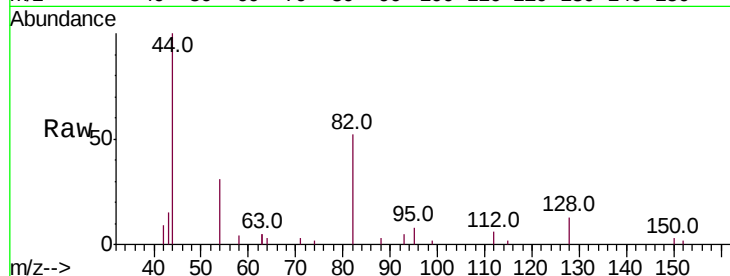
Tot Ion: 82 Resp: 2659

Ion Ratio Lower Upper

82 100

128 25.2 24.0 36.0

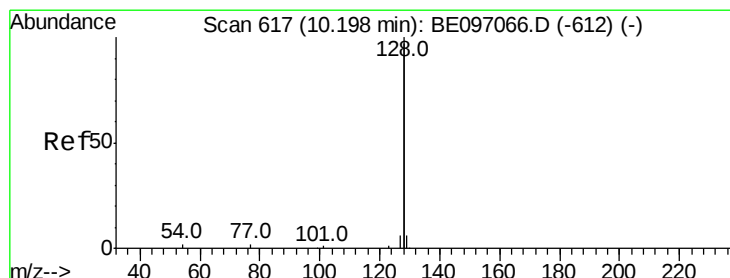
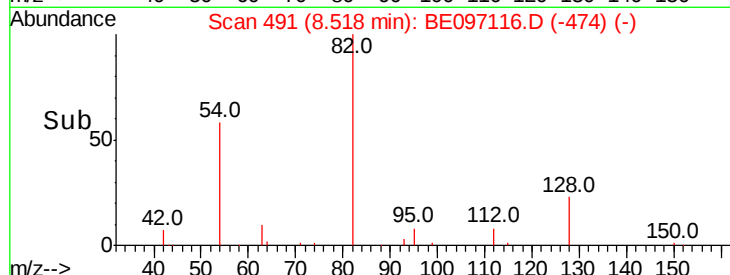
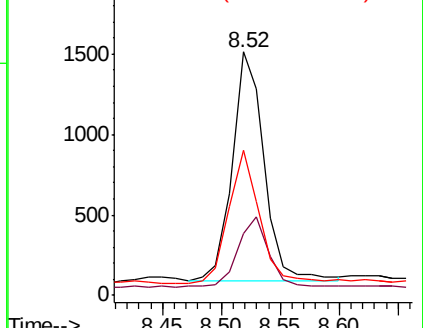
54 59.6 40.0 60.0



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.026 ng

RT: 10.21 min Scan# 618

Delta R.T. 0.01 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

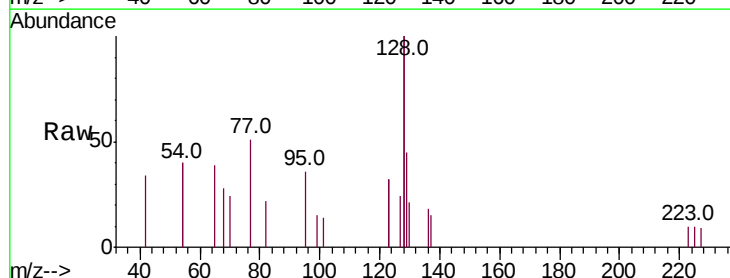
Tgt Ion:128 Resp: 1635

Ion Ratio Lower Upper

128 100

129 22.3 2.6 3.8#

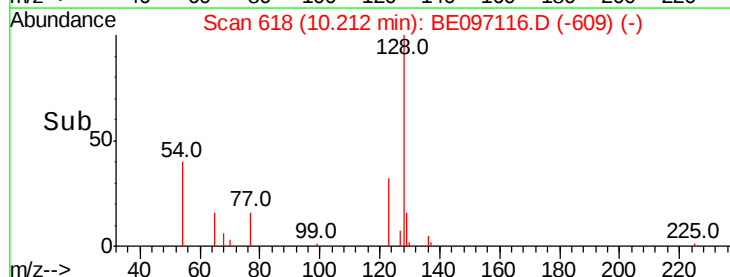
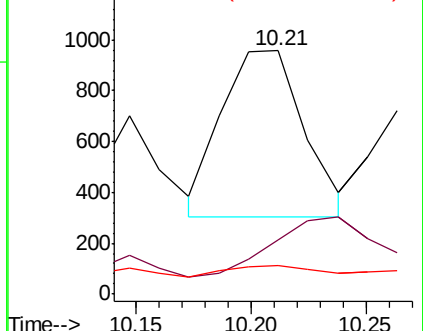
127 11.9 2.8 4.2#

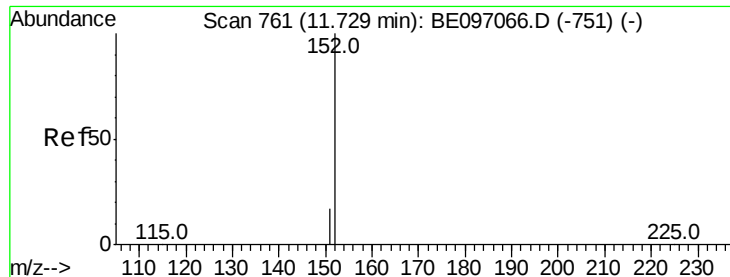


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

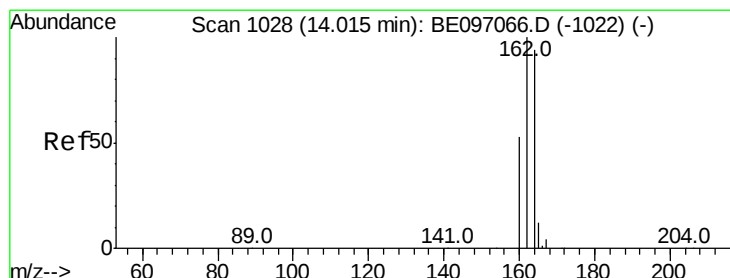
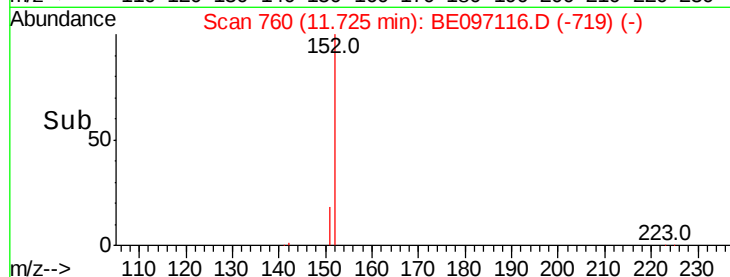
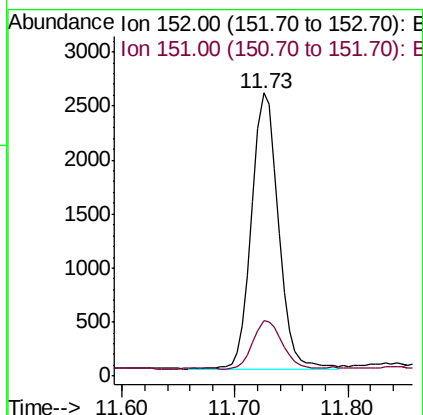
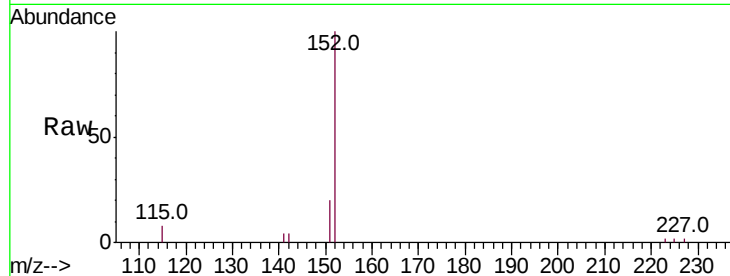




#11
2-Methylnaphthalene-d10
Concen: 0.403 ng
RT: 11.73 min Scan# 760
Delta R.T. 0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

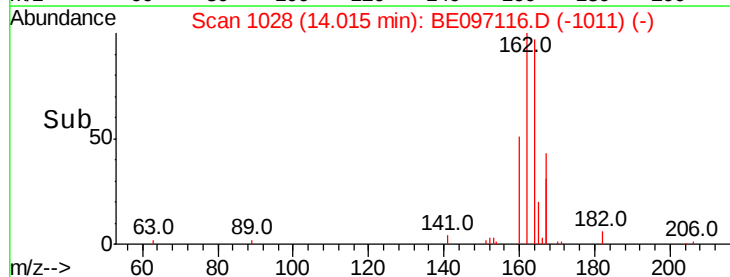
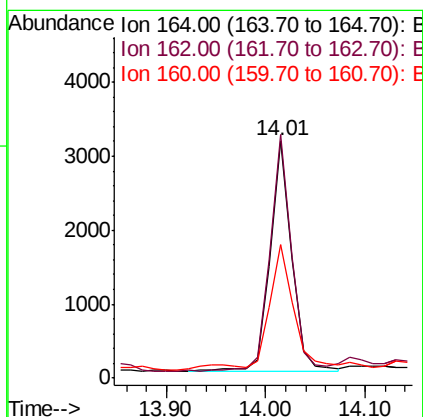
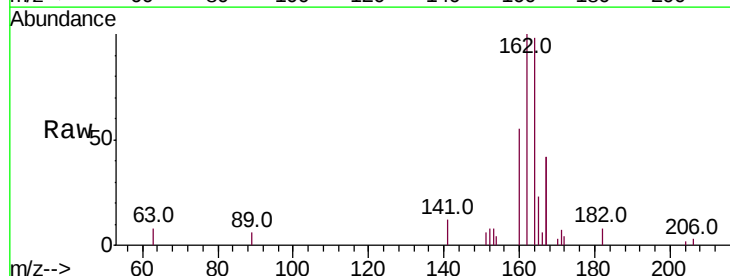
Instrument :
BNA_E
ClientSampleId :

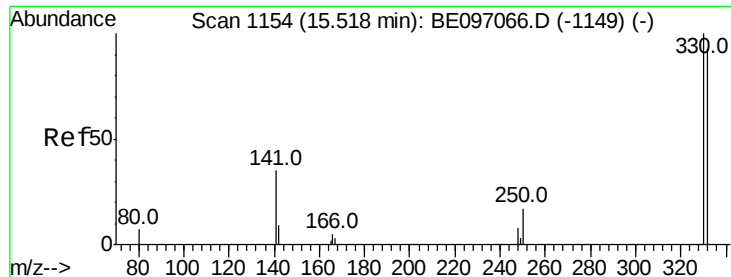
Tot Ion:152 Resp: 4265
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.01 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

Tgt Ion:164 Resp: 4641
Ion Ratio Lower Upper
164 100
162 102.5 83.1 124.7
160 56.1 37.1 55.7#





#14

2,4,6-Tribromophenol

Concen: 0.544 ng

RT: 15.52 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

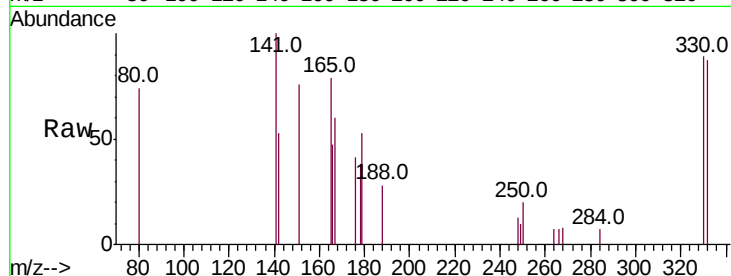
Tot Ion:330 Resp: 831

Ion Ratio Lower Upper

330 100

332 97.6 152.7 229.1#

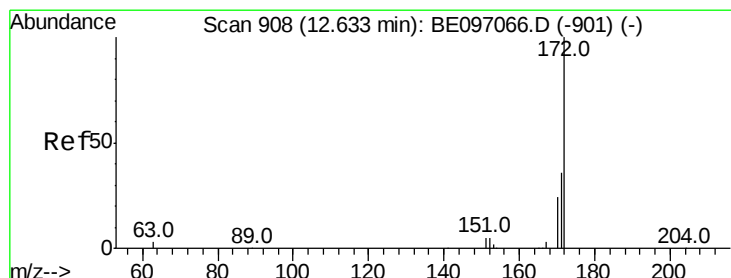
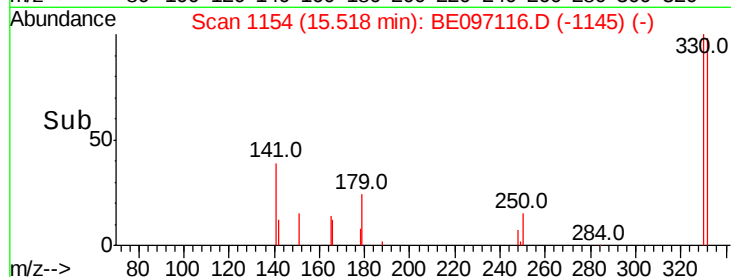
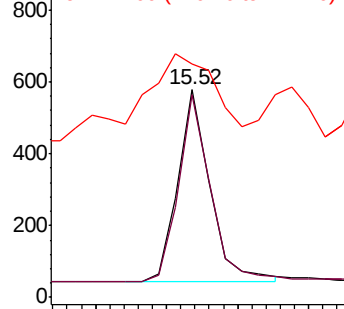
141 75.8 33.7 50.5#



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#15

2-Fluorobiphenyl

Concen: 0.480 ng

RT: 12.63 min Scan# 908

Delta R.T. 0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

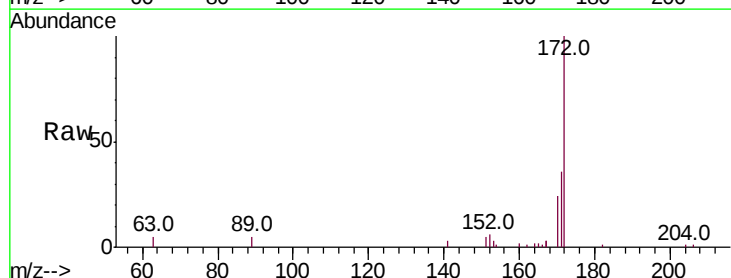
Tgt Ion:172 Resp: 7696

Ion Ratio Lower Upper

172 100

171 35.8 29.9 44.9

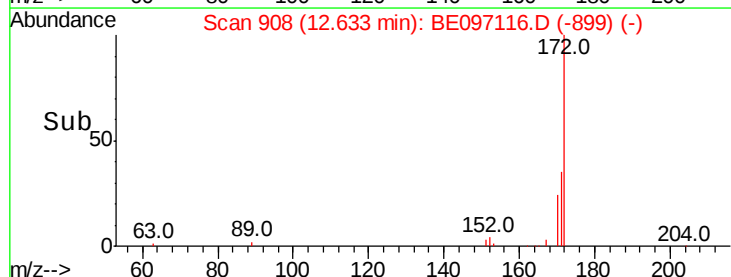
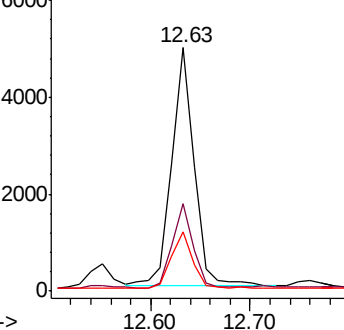
170 24.2 21.8 32.8

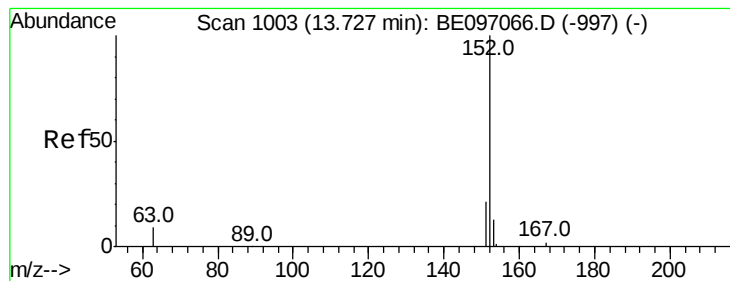


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 0.025 ng

RT: 13.74 min Scan# 1004

Delta R.T. 0.01 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

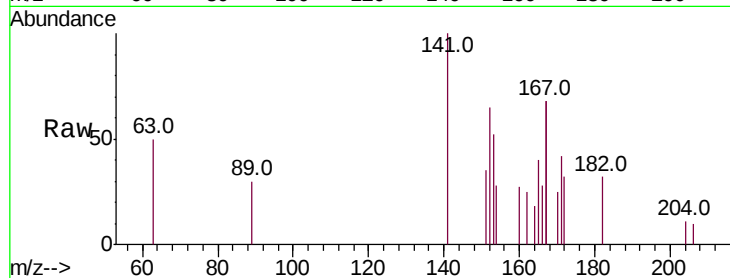
Tot Ion:152 Resp: 525

Ion Ratio Lower Upper

152 100

151 34.7 15.7 23.5#

153 58.9 10.5 15.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

Time-->

13.74

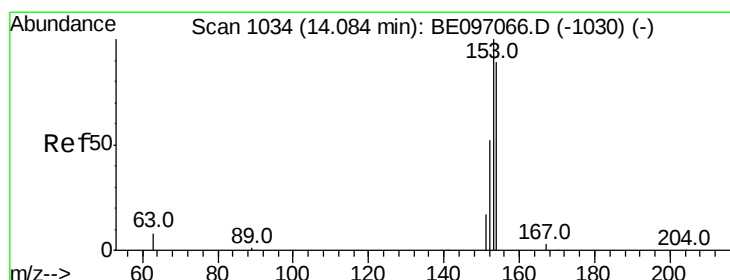
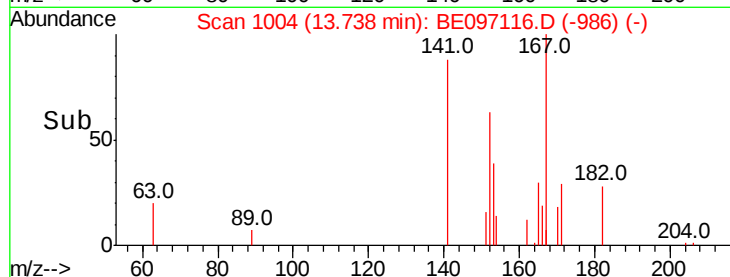
300

200

100

0

13.70 13.75 13.80



#17

Acenaphthene

Concen: 0.288 ng

RT: 14.07 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

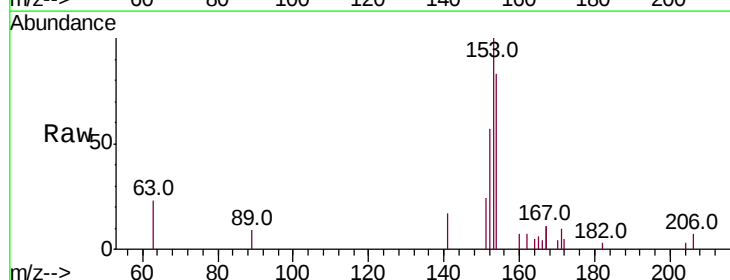
Tgt Ion:154 Resp: 3487

Ion Ratio Lower Upper

154 100

153 119.6 89.2 133.8

152 63.4 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-->

14.07

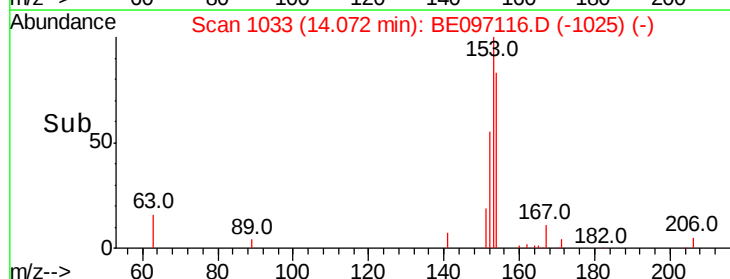
3000

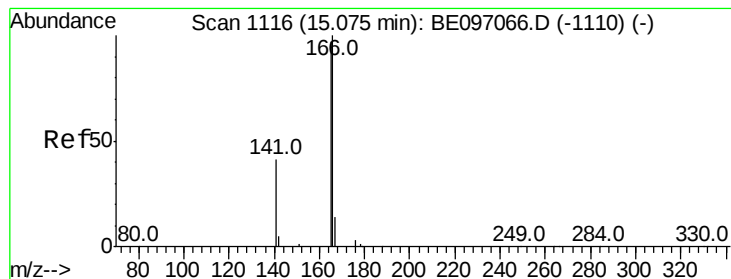
2000

1000

0

14.00 14.10





#18

Fluorene

Concen: 0.028 ng

RT: 15.06 min Scan# 1115

Delta R.T. -0.01 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampled :

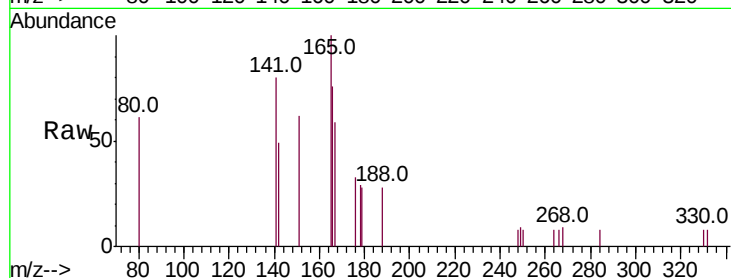
Tot Ion:166 Resp: 449

Ion Ratio Lower Upper

166 100

165 131.0 77.8 116.6#

167 57.5 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

800

600

400

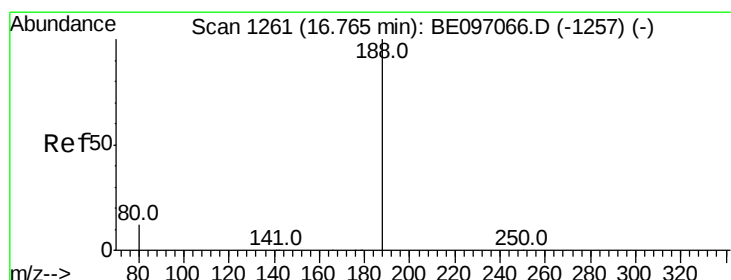
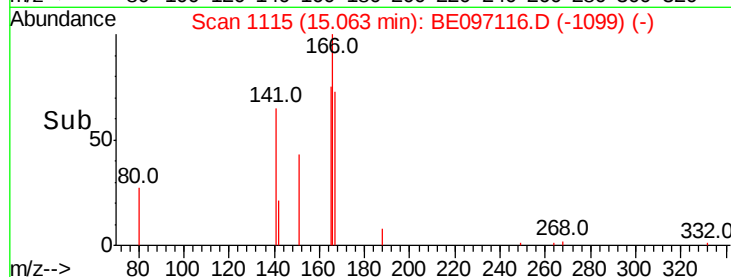
200

0

15.05

15.10

Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.76 min Scan# 1261

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

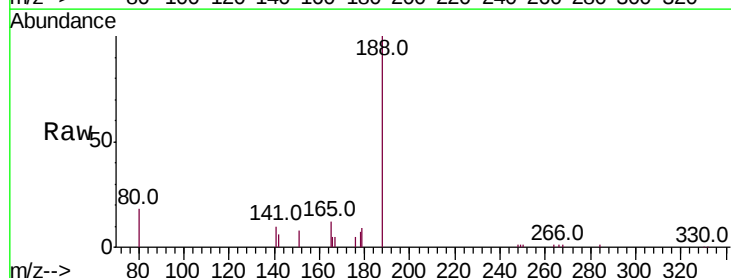
Tgt Ion:188 Resp: 13408

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 18.2 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

10000

5000

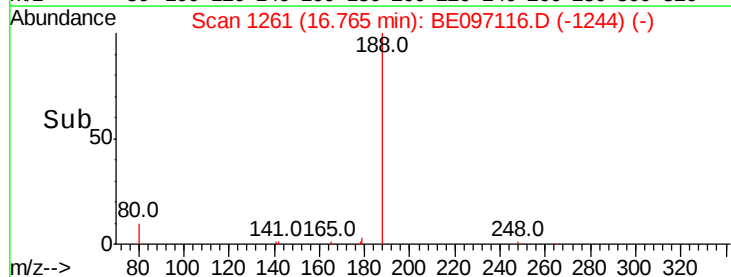
0

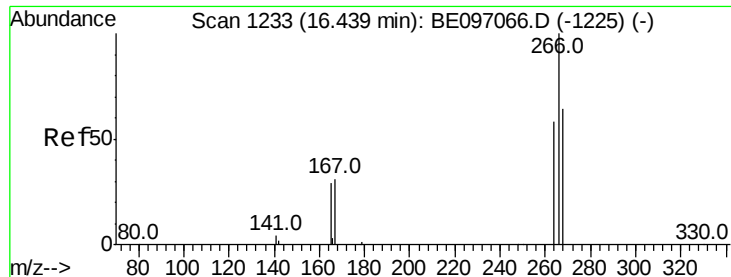
16.60

16.70

16.80

Time-->

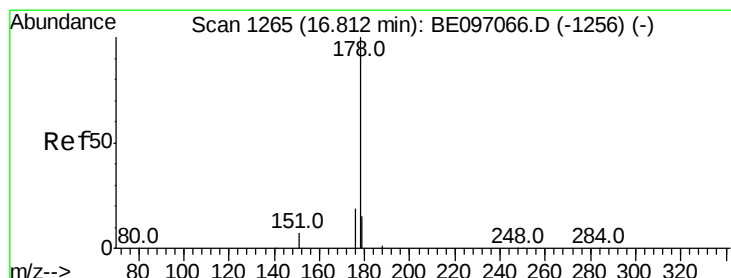
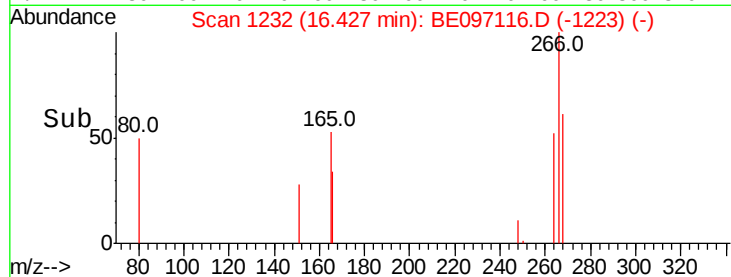
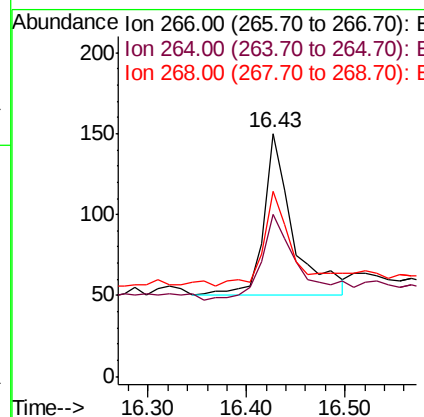
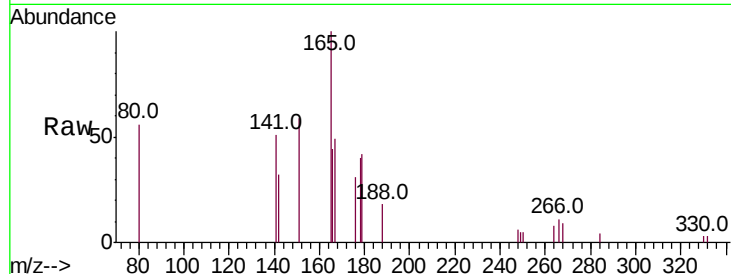




#22
 Pentachlorophenol
 Concen: 0.158 ng
 RT: 16.43 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

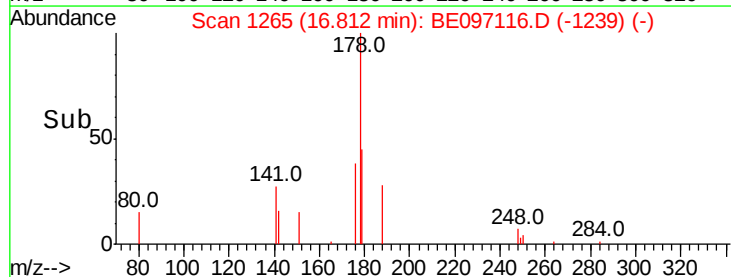
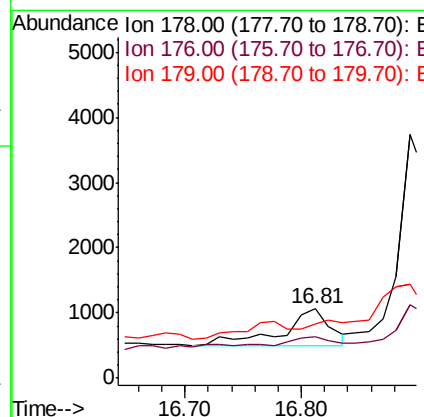
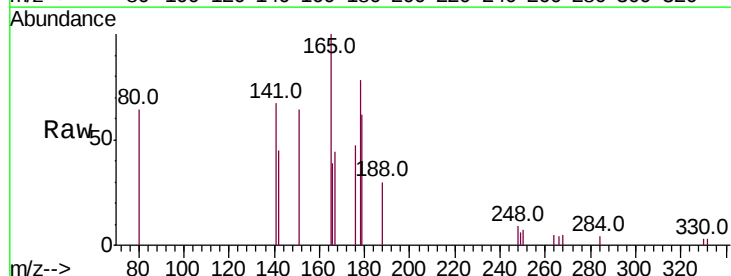
Instrument :
 BNA_E
 ClientSampled :

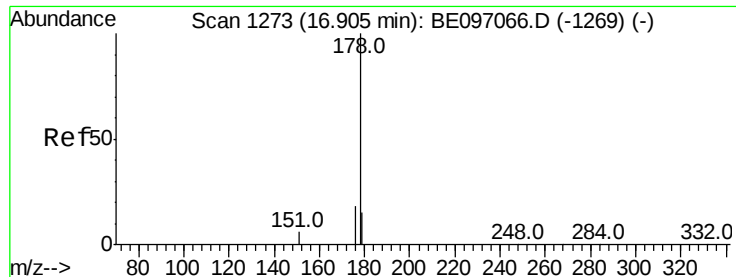
Tot Ion:266 Resp: 207
 Ion Ratio Lower Upper
 266 100
 264 66.7 72.5 108.7#
 268 76.0 73.8 110.6



#23
 Phenanthrene
 Concen: 0.050 ng
 RT: 16.81 min Scan# 1265
 Delta R.T. -0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

Tgt Ion:178 Resp: 1606
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.1 22.7
 179 0.0 11.8 17.6#





#24

Anthracene

Concen: 0.193 ng

RT: 16.89 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

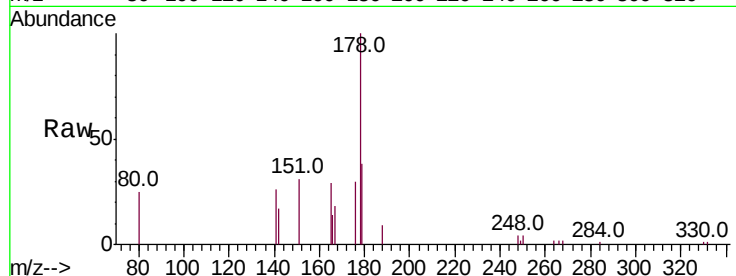
Tot Ion:178 Resp: 5527

Ion Ratio Lower Upper

178 100

176 21.5 12.8 19.2#

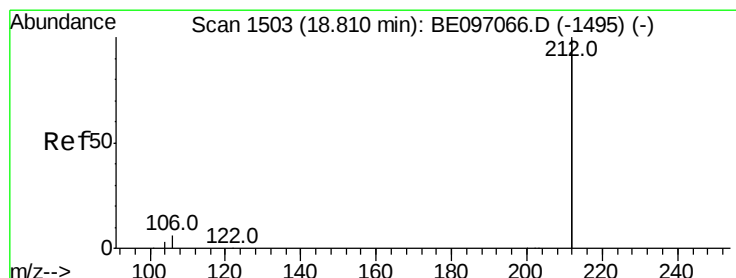
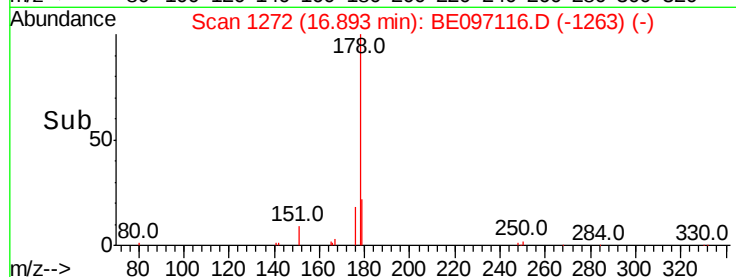
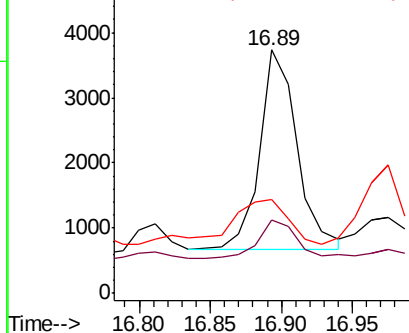
179 34.0 13.0 19.6#



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: 0.497 ng

RT: 18.81 min Scan# 1503

Delta R.T. -0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

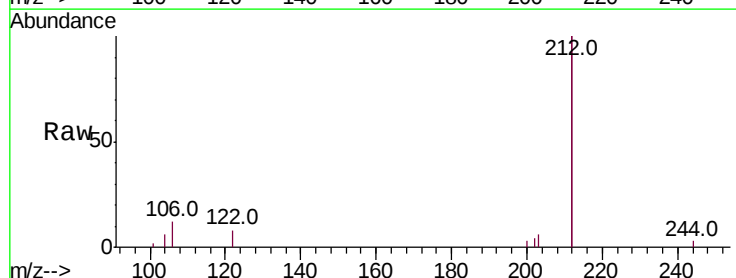
Tgt Ion:212 Resp: 66688

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

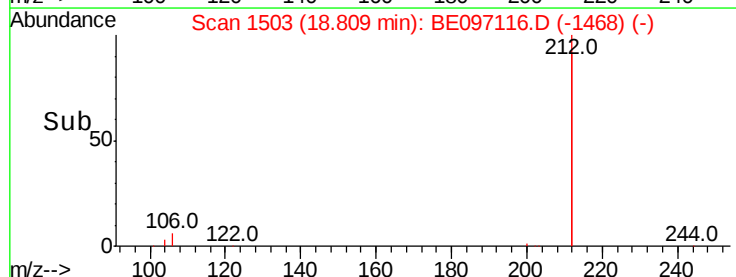
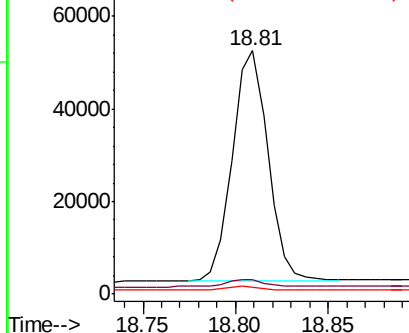
104 2.0 1.6 2.4

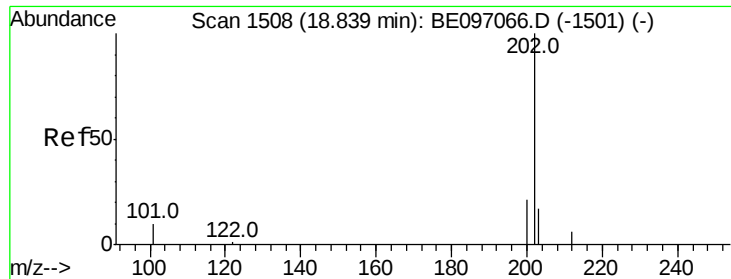


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

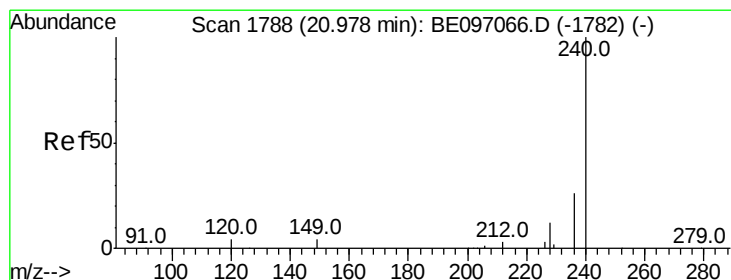
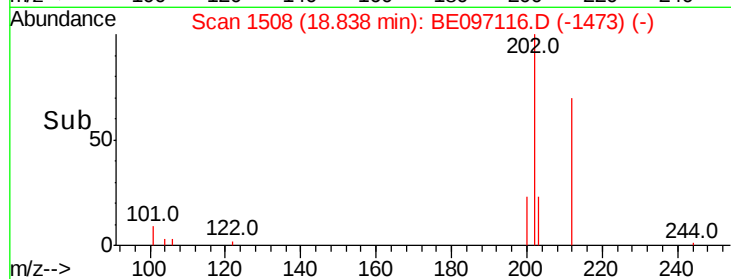
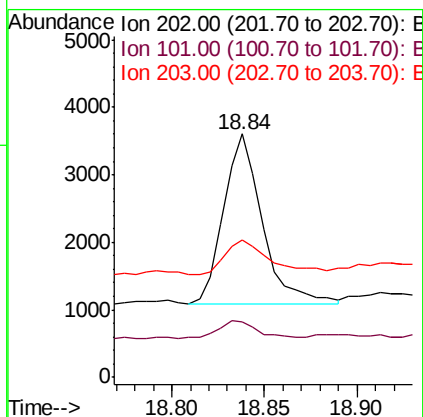
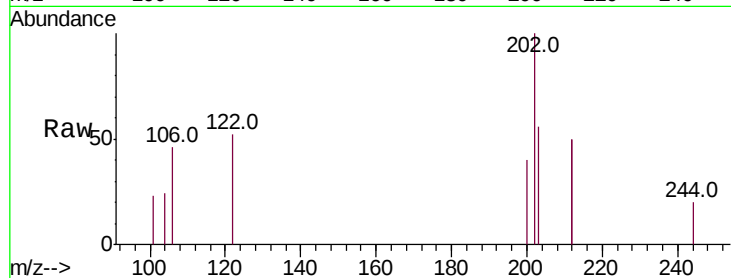




#26
Fluoranthene
Concen: 0.103 ng
RT: 18.84 min Scan# 1508
Delta R.T. -0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

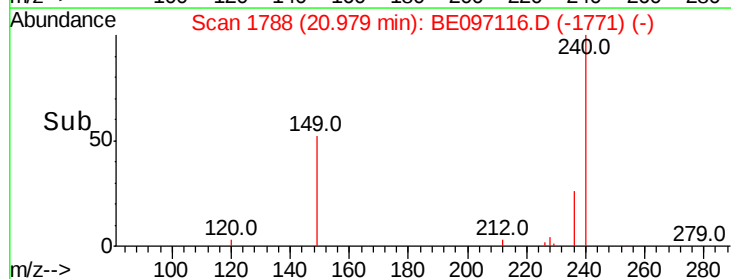
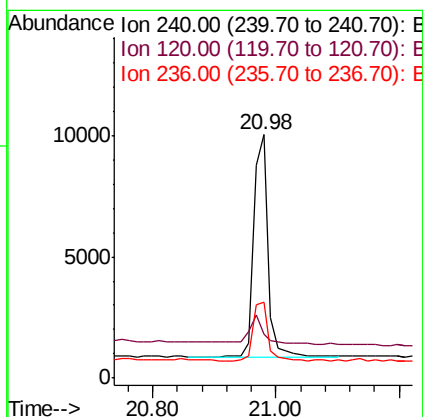
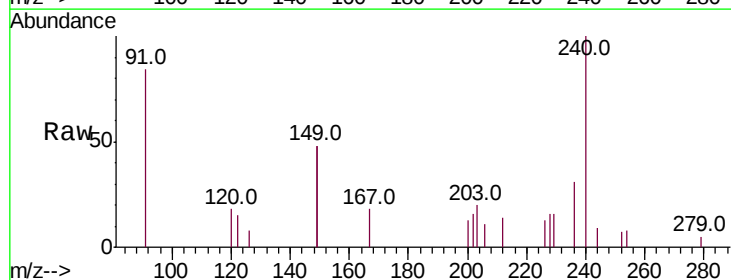
Instrument :
BNA_E
ClientSampleId :

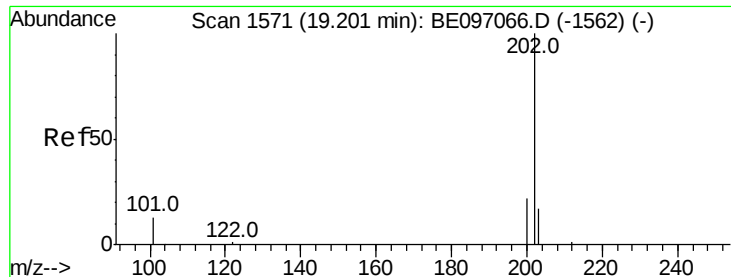
Tot Ion:202 Resp: 3678
Ion Ratio Lower Upper
202 100
101 10.3 9.8 14.8
203 23.2 13.7 20.5#



#27
Chrysene-d12
Concen: 0.400 ng
RT: 20.98 min Scan# 1788
Delta R.T. 0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

Tgt Ion:240 Resp: 15206
Ion Ratio Lower Upper
240 100
120 17.9 5.5 8.3#
236 31.2 20.7 31.1#

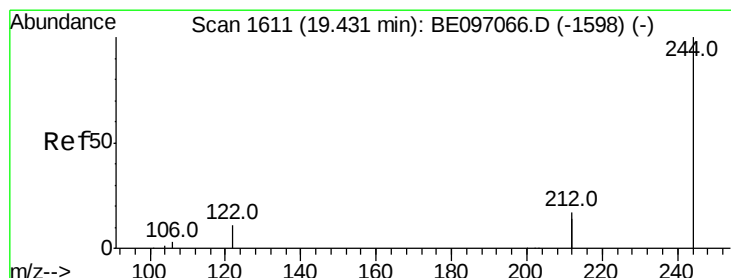
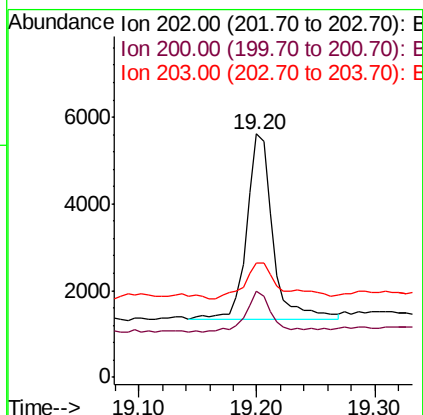
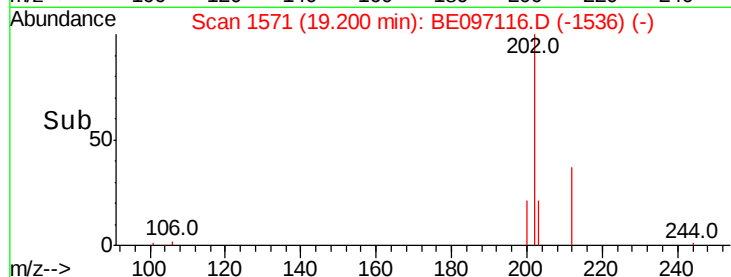
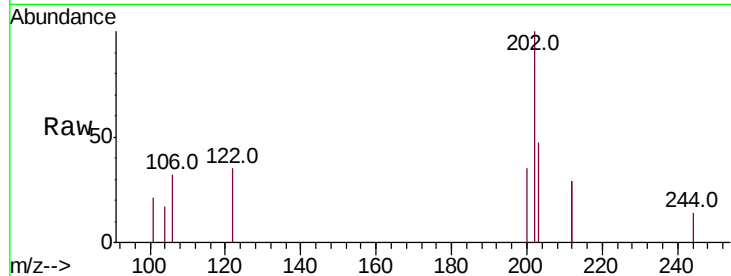




#28
Pvrene
Concen: 0.156 ng
RT: 19.20 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

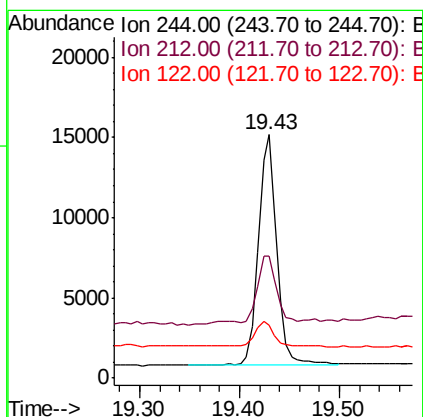
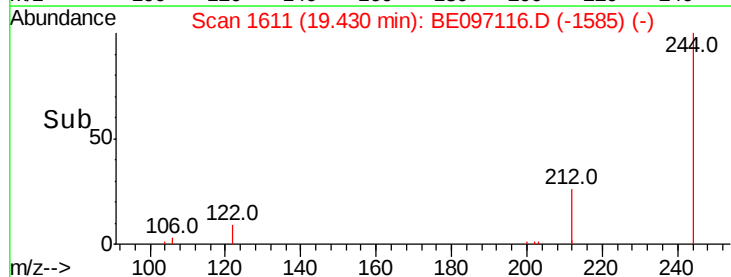
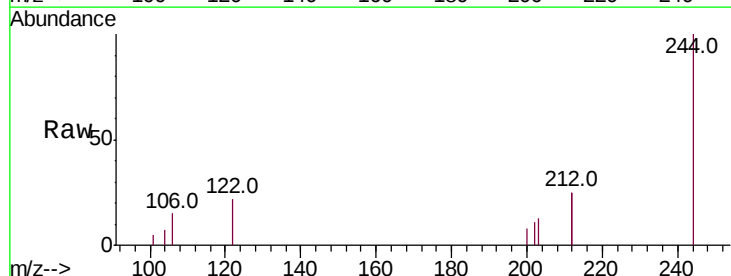
Instrument :
BNA_E
ClientSampleId :

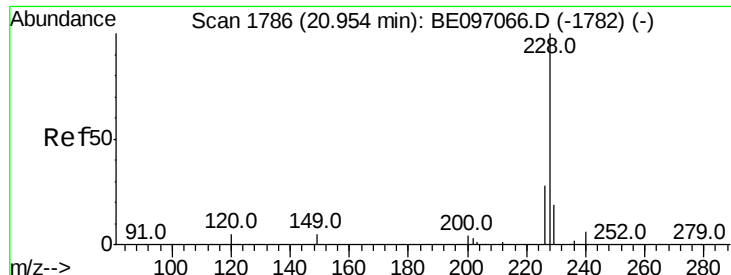
Tot Ion:202 Resp: 6512
Ion Ratio Lower Upper
202 100
200 22.5 16.6 25.0
203 22.8 13.8 20.8#



#29
Terphenyl-d14
Concen: 0.646 ng
RT: 19.43 min Scan# 1611
Delta R.T. -0.00 min
Lab File: BE097116.D
Acq: 31 Jul 2018 11:08

Tgt Ion:244 Resp: 18887
Ion Ratio Lower Upper
244 100
212 49.9 25.4 38.0#
122 21.8 8.1 12.1#





#30

Benzo(a)anthracene

Concen: 0.060 ng

RT: 20.96 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

Instrument :

BNA_E

ClientSampleId :

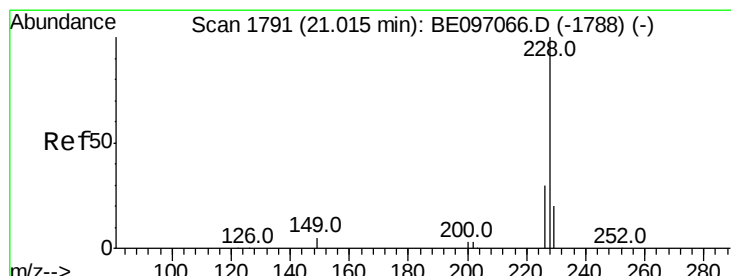
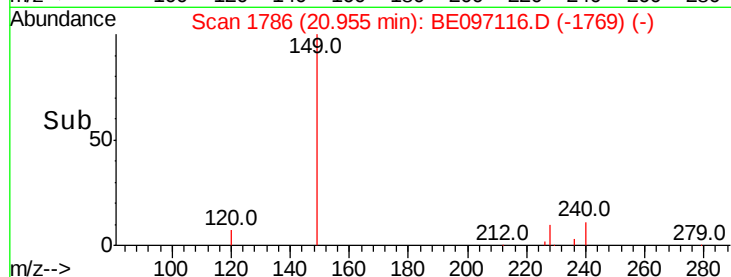
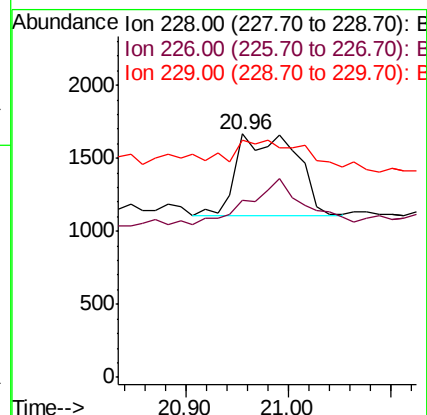
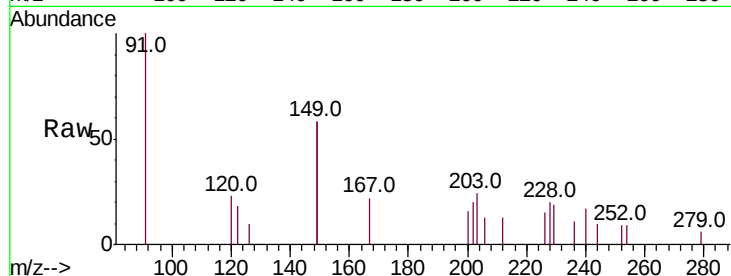
Tot Ion:228 Resp: 2264

Ion Ratio Lower Upper

228 100

226 72.6 24.0 36.0#

229 97.2 16.0 24.0#



#31

Chrysene

Concen: 0.053 ng

RT: 20.96 min Scan# 1786

Delta R.T. -0.05 min

Lab File: BE097116.D

Acq: 31 Jul 2018 11:08

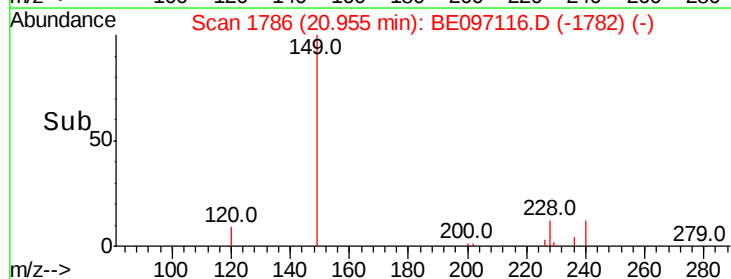
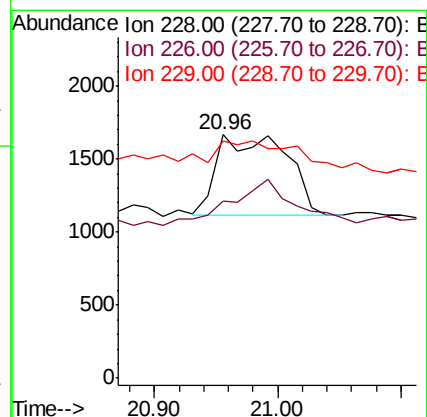
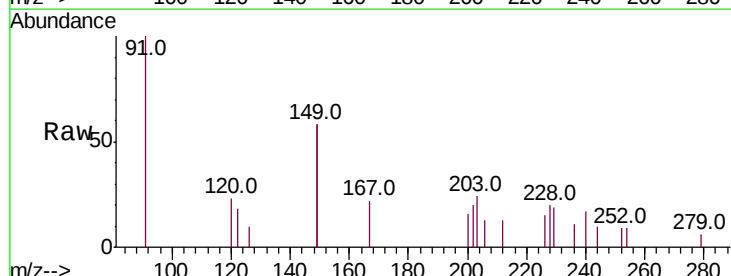
Tgt Ion:228 Resp: 2147

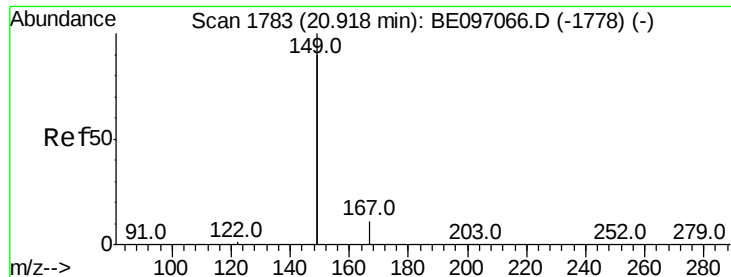
Ion Ratio Lower Upper

228 100

226 72.6 24.0 36.0#

229 97.2 16.0 24.0#

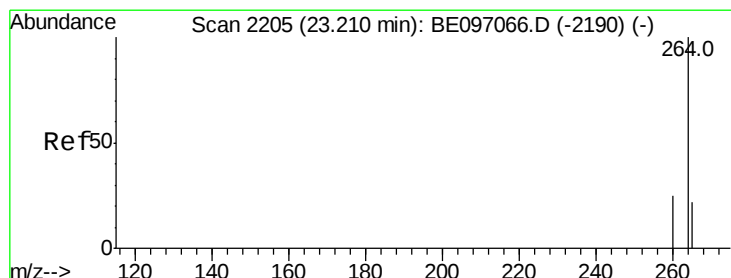
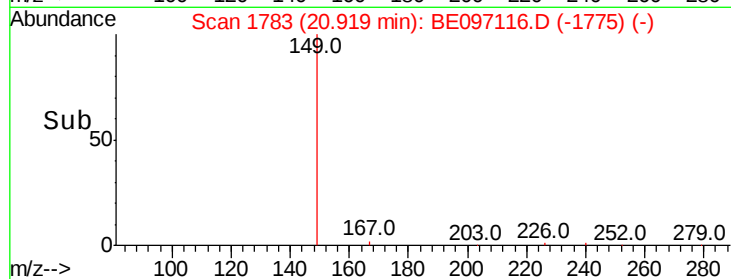
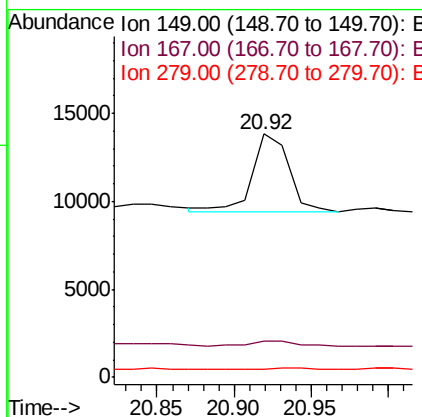
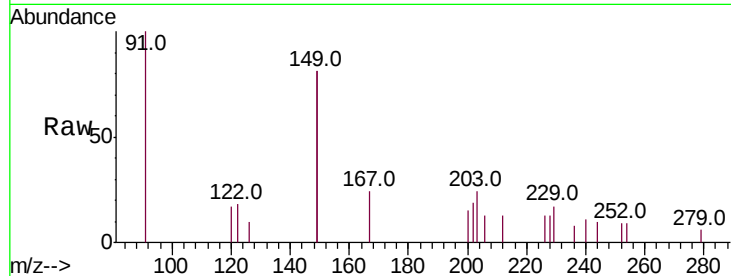




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.179 ng
 RT: 20.92 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:149 Resp: 7141
 Ion Ratio Lower Upper
 149 100
 167 9.6 5.4 8.0#
 279 2.0 0.7 1.1#



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.21 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: BE097116.D
 Acq: 31 Jul 2018 11:08

Tgt Ion:264 Resp: 14021
 Ion Ratio Lower Upper
 264 100
 260 27.4 20.5 30.7
 265 31.3 22.8 34.2

