

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071918\
 Data File : BE097004.D
 Acq On : 19 Jul 2018 14:35
 Operator : SJ/JU
 Sample : J4014-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 19 15:40:23 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 17 15:02:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	1457	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	6784	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	4167	0.40	ng	-0.01
19) Phenanthrene-d10	16.77	188	12264	0.40	ng	-0.01
27) Chrysene-d12	20.98	240	11424	0.40	ng	0.00
34) Perylene-d12	23.21	264	10610	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.06	112	605	0.17	ng	0.01
5) Phenol-d6	6.60	99	534	0.10	ng	0.00
8) Nitrobenzene-d5	8.53	82	2295	0.46	ng	0.00
11) 2-Methylnaphthalene-d10	11.73	152	3992	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.52	330	538	0.56	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	7142	0.46	ng	-0.01
25) Fluoranthene-d10	18.81	212	57052	0.53	ng	0.00
29) Terphenyl-d14	19.43	244	12338	0.56	ng	0.00

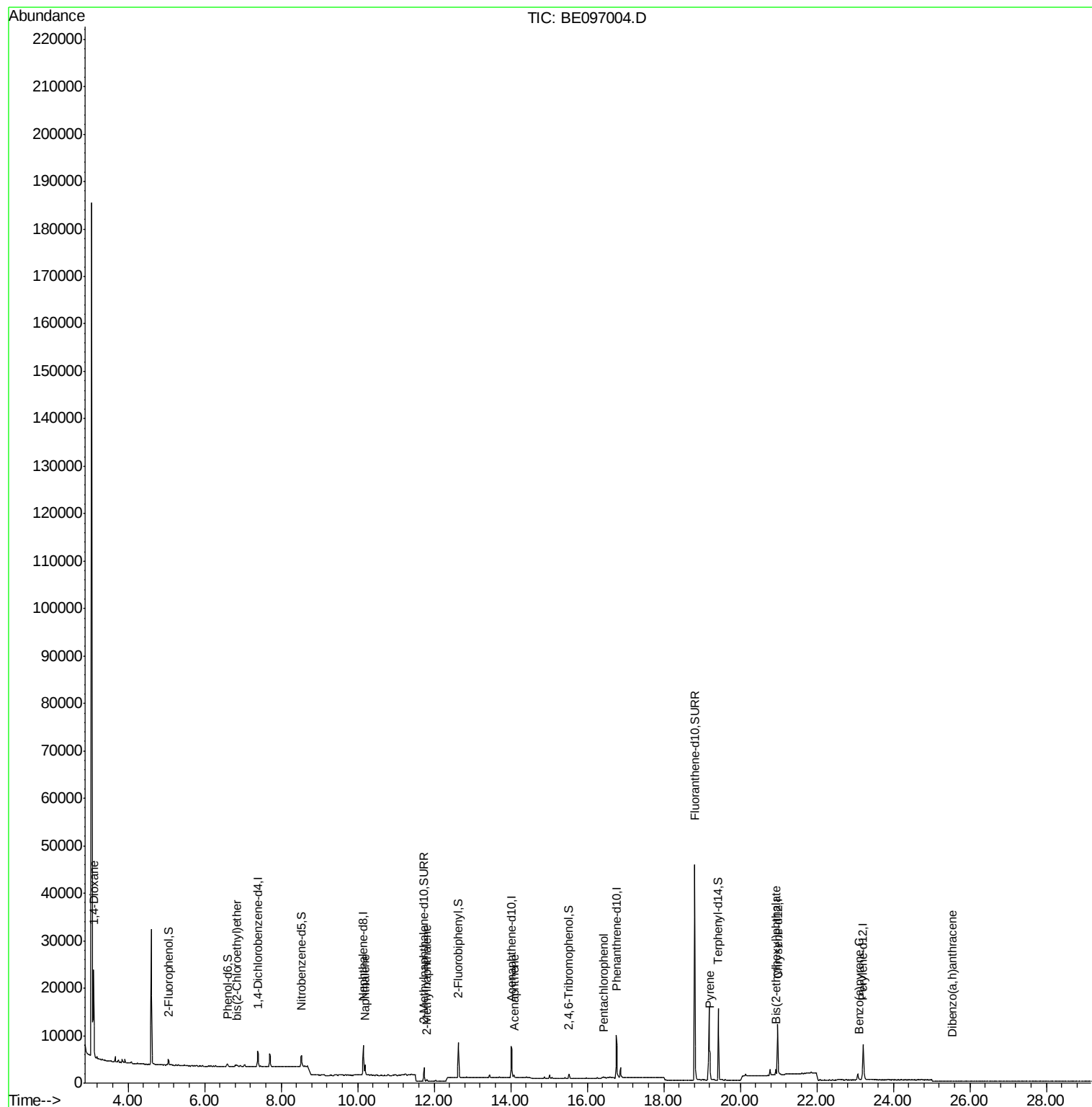
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.09	88	8783	4.211	ng	# 91
6) bis(2-Chloroethyl)ether	6.84	93	147	0.028	ng	# 98
9) Naphthalene	10.20	128	3297	0.054	ng	# 95
12) 2-Methylnaphthalene	11.81	142	307	0.030	ng	# 92
17) Acenaphthene	14.08	154	281	0.024	ng	95
22) Pentachlorophenol	16.43	266	113	0.127	ng	86
28) Pyrene	19.21	202	5034	0.149	ng	99
32) Bis(2-ethylhexyl)phthalate	20.93	149	1704	0.063	ng	# 100
37) Benzo(a)pyrene	23.11	252	98	0.104	ng	# 1
38) Dibenzo(a,h)anthracene	25.54	278	117	0.122	ng	# 1

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.40 min Scan# 394

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

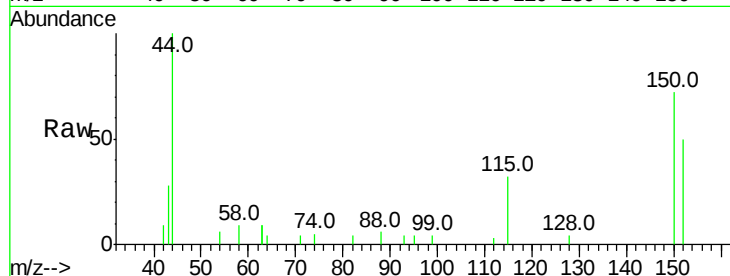
Tot Ion:152 Resp: 1457

Ion Ratio Lower Upper

152 100

150 143.7 117.2 175.8

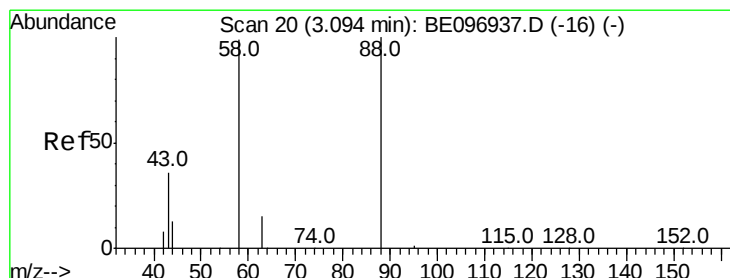
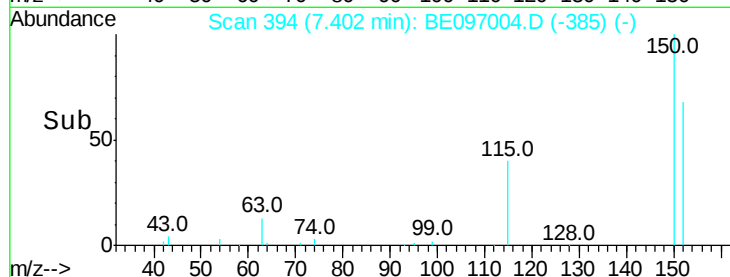
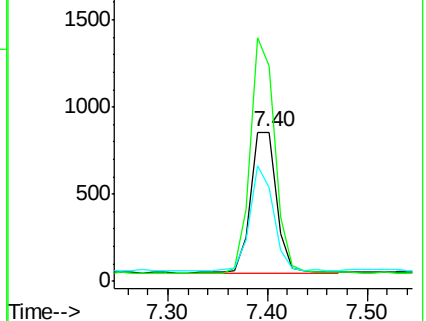
115 63.2 57.0 85.6



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: 4.211 ng

RT: 3.09 min Scan# 20

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

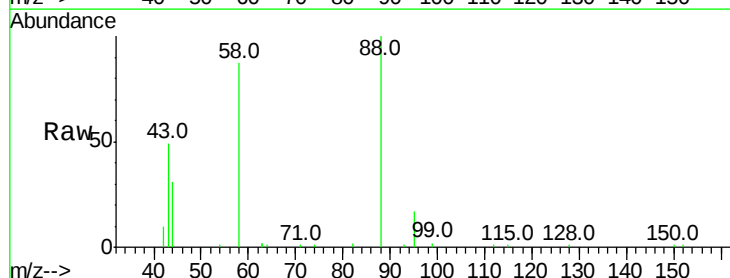
Tgt Ion: 88 Resp: 8783

Ion Ratio Lower Upper

88 100

58 83.1 63.2 94.8

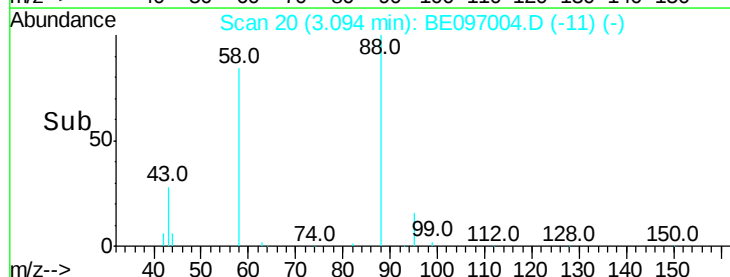
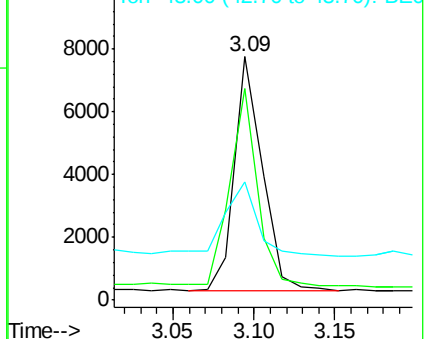
43 39.9 41.2 61.8#

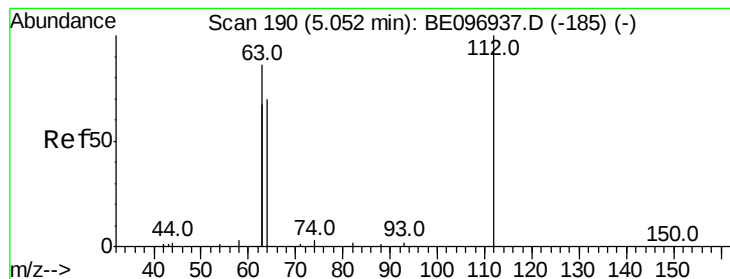


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.174 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

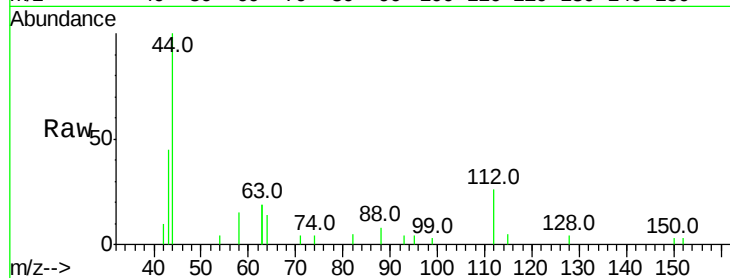
Tot Ion: 112 Resp: 605

Ion Ratio Lower Upper

112 100

64 75.2 60.1 90.1

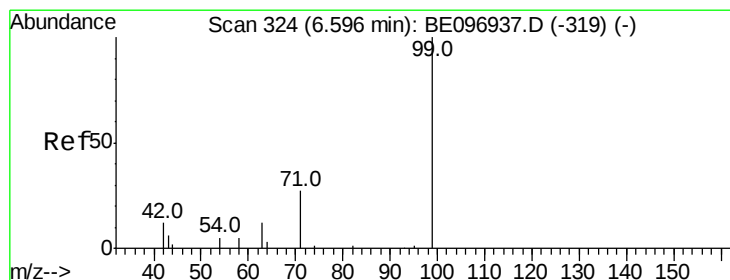
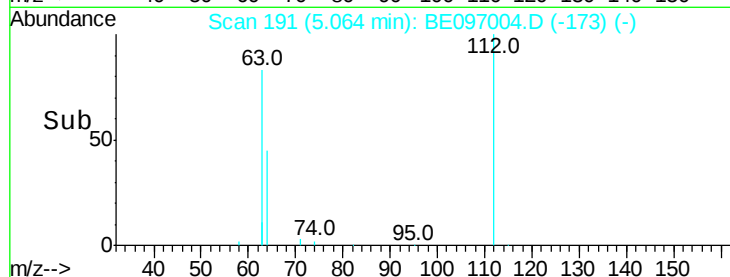
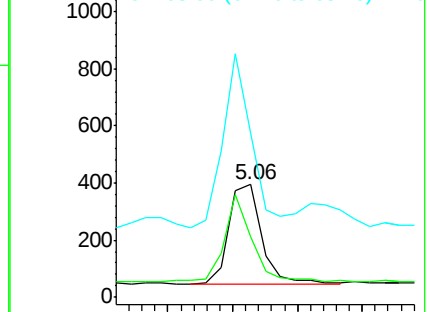
63 151.9 116.8 175.2



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: 0.100 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

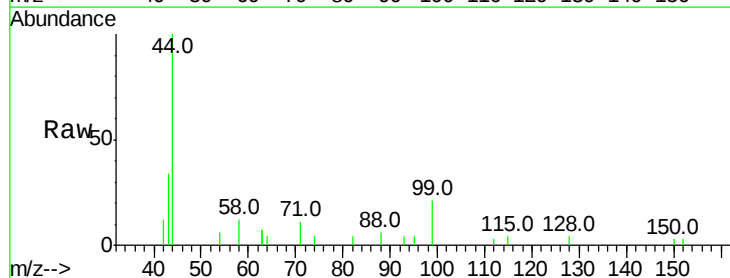
Tgt Ion: 99 Resp: 534

Ion Ratio Lower Upper

99 100

42 23.0 20.2 30.2

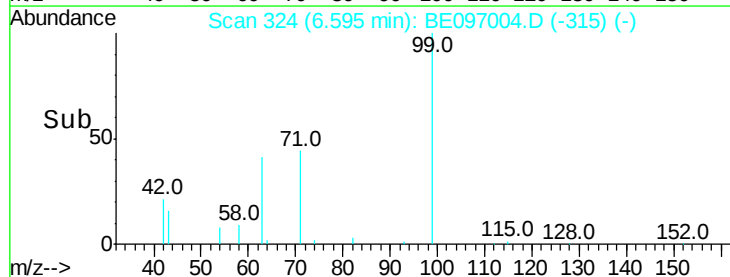
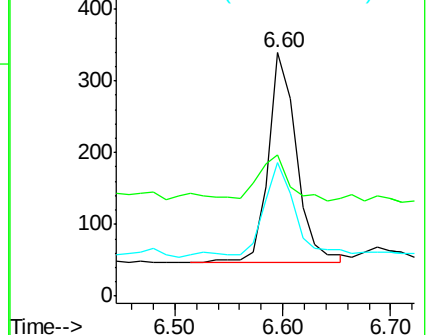
71 45.5 28.4 42.6#

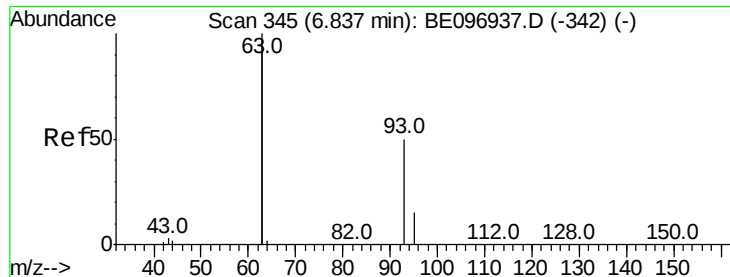


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.028 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

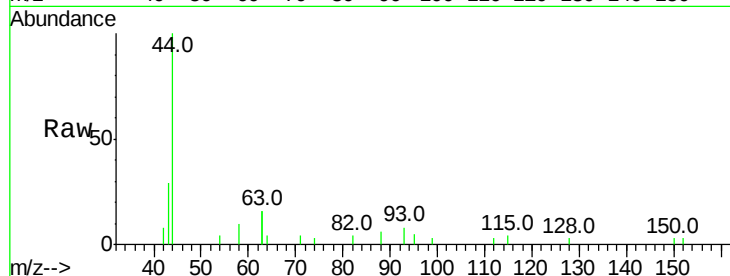
Tot Ion: 93 Resp: 147

Ion Ratio Lower Upper

93 100

63 341.5 275.3 412.9

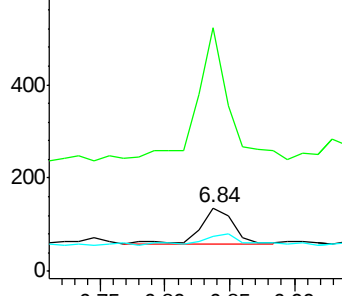
95 39.5 25.2 37.8#



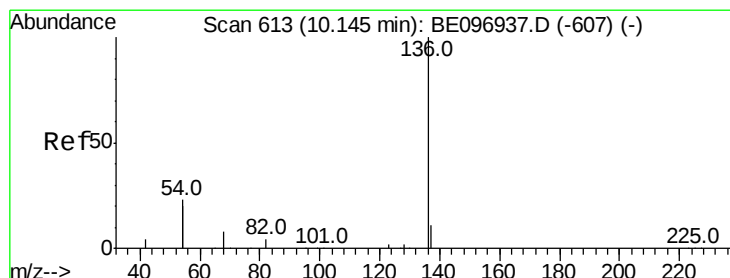
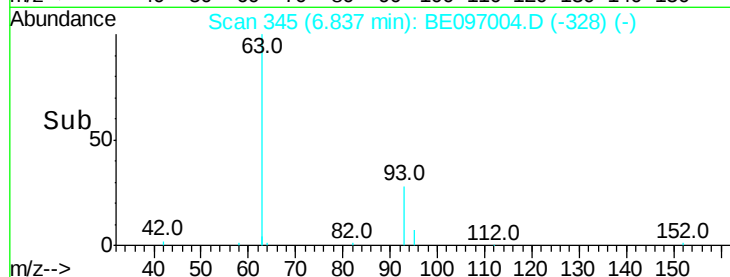
Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Tgt Ion:136 Resp: 6784

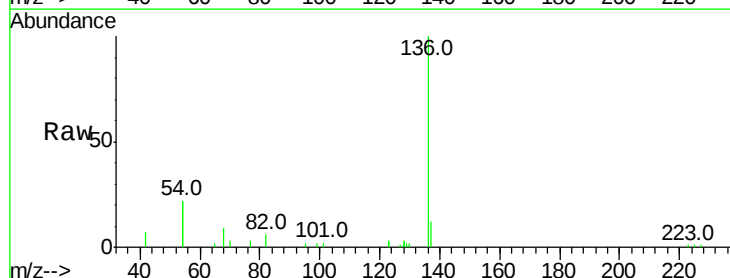
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 43.4 29.1 43.7

68 8.6 6.2 9.2

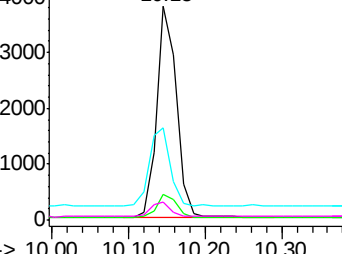


Abundance Ion 136.00 (135.70 to 136.70): E

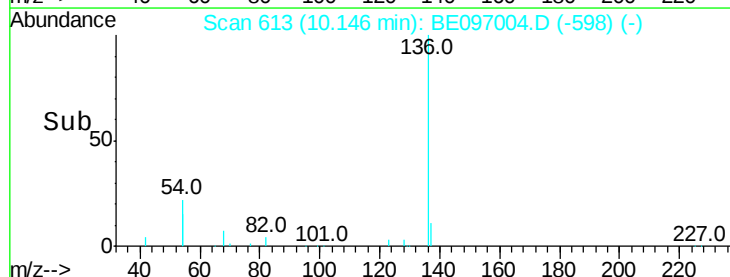
Ion 137.00 (136.70 to 137.70): E

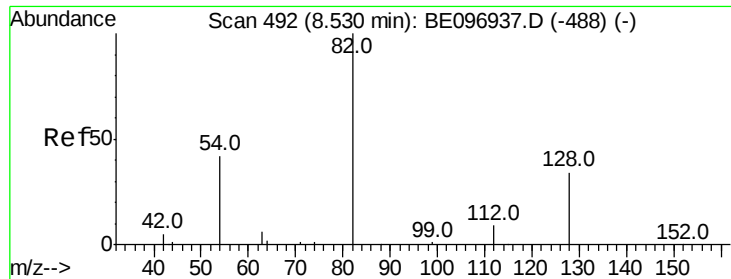
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 0.464 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

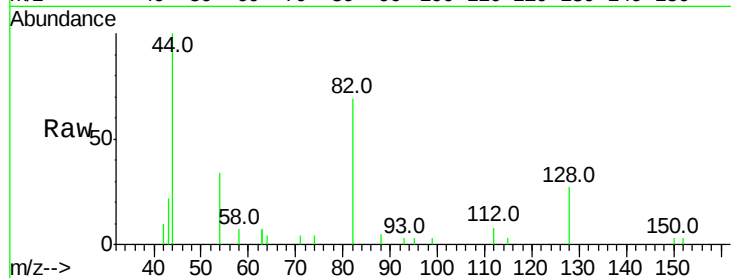
Tot Ion: 82 Resp: 2295

Ion Ratio Lower Upper

82 100

128 39.0 24.0 36.0#

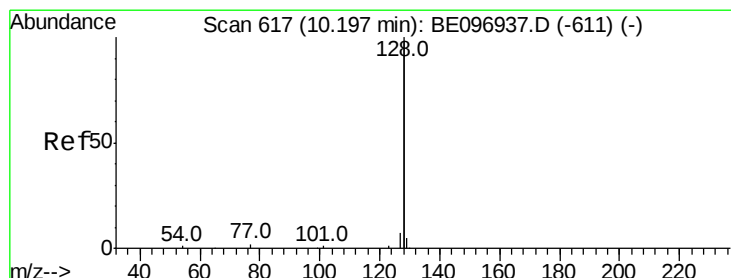
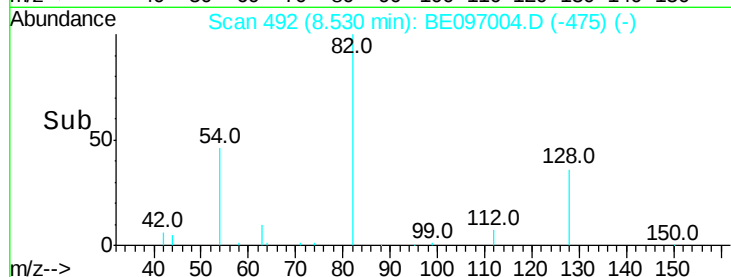
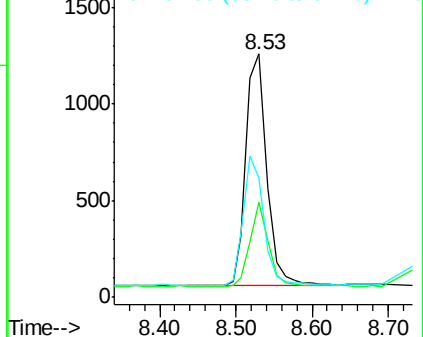
54 48.9 40.0 60.0



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: 0.054 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

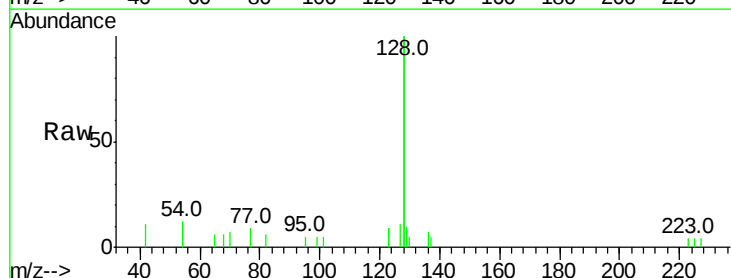
Tgt Ion:128 Resp: 3297

Ion Ratio Lower Upper

128 100

129 4.8 2.6 3.8#

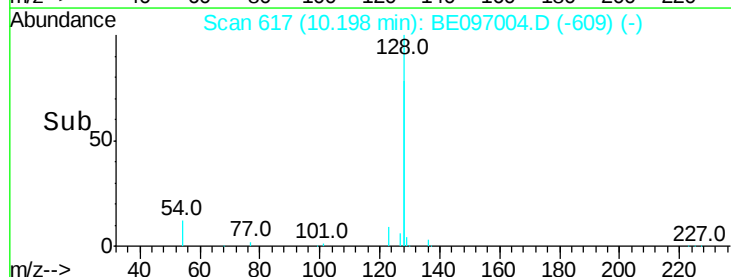
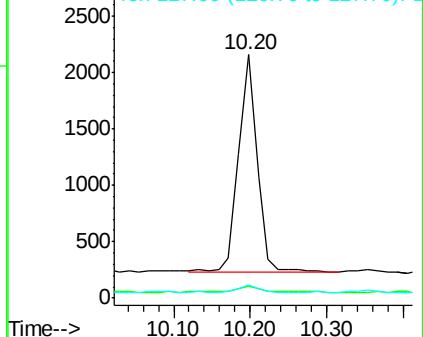
127 5.3 2.8 4.2#

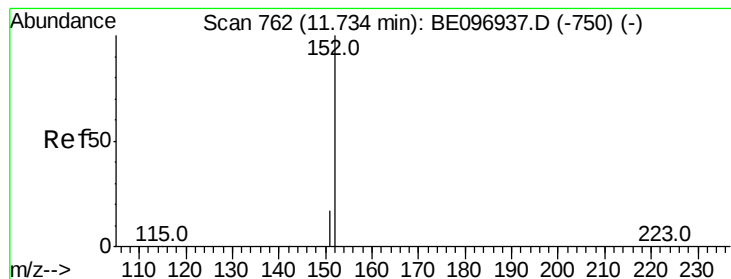


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.404 ng

RT: 11.73 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

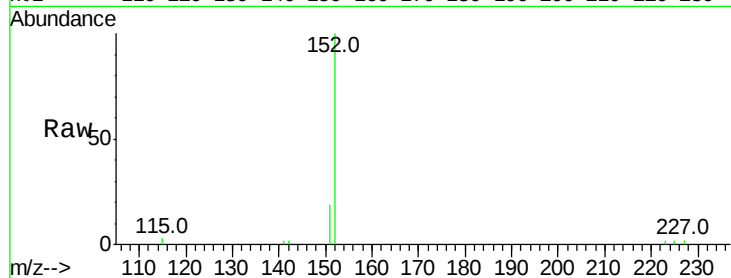
ClientSampleId :

Tot Ion:152 Resp: 3992

Ion Ratio Lower Upper

152 100

151 19.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

2500

2000

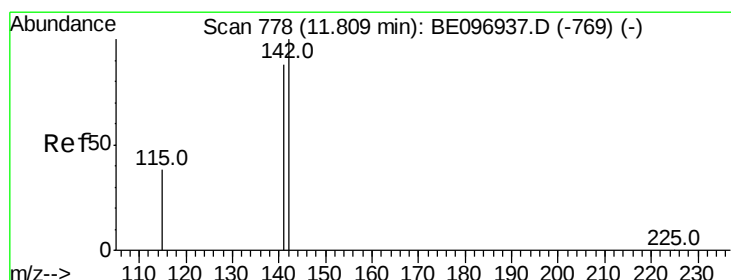
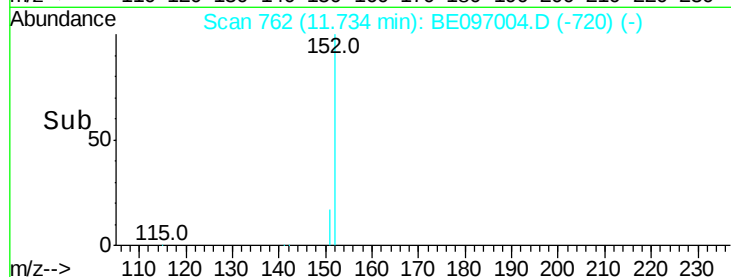
1500

1000

500

0

Time--> 11.60 11.70 11.80



#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 11.81 min Scan# 778

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

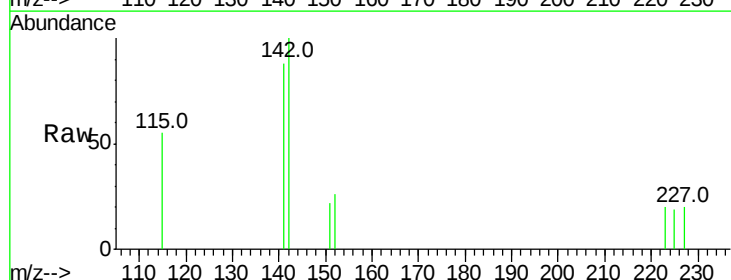
Tgt Ion:142 Resp: 307

Ion Ratio Lower Upper

142 100

141 87.6 70.4 105.6

115 54.9 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

300

250

200

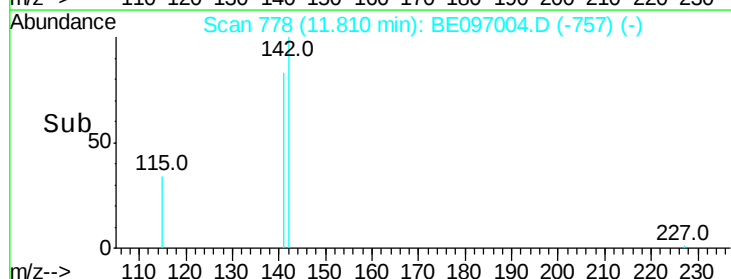
150

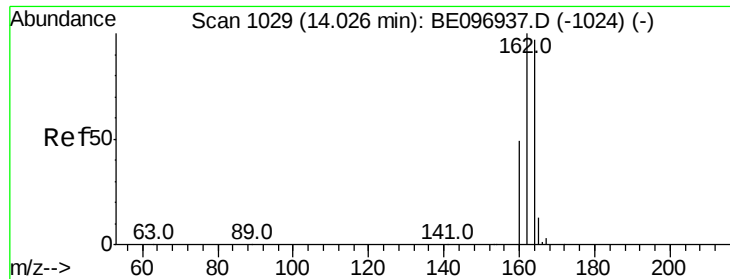
100

50

0

Time--> 11.75 11.80 11.85

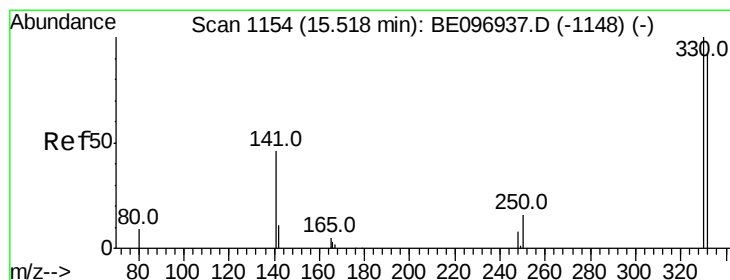
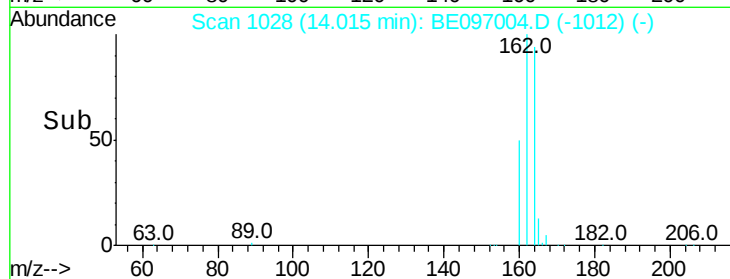
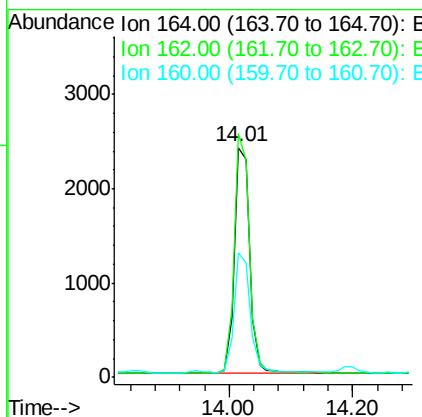
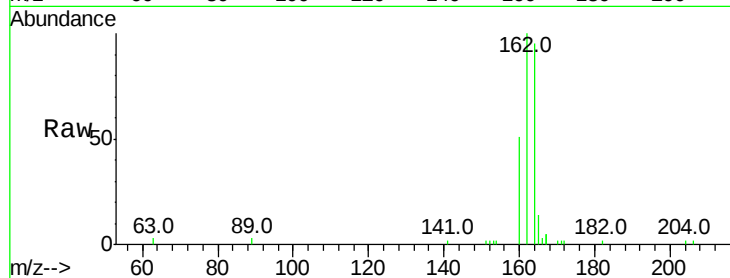




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.01 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BE097004.D
 Acq: 19 Jul 2018 14:35

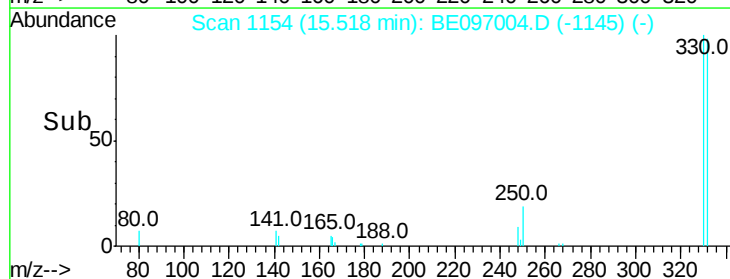
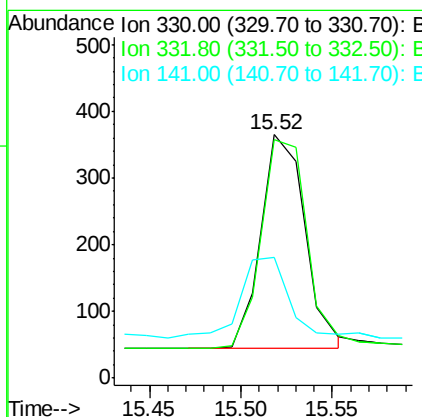
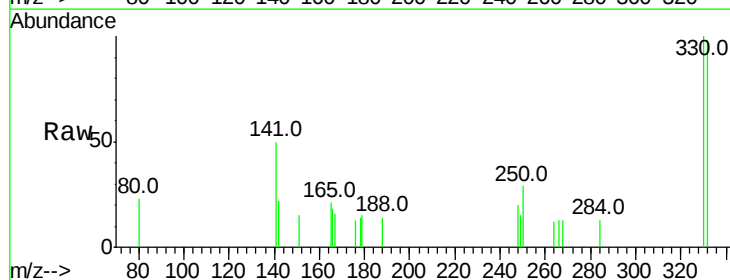
Instrument :
 BNA_E
 ClientSampleId :

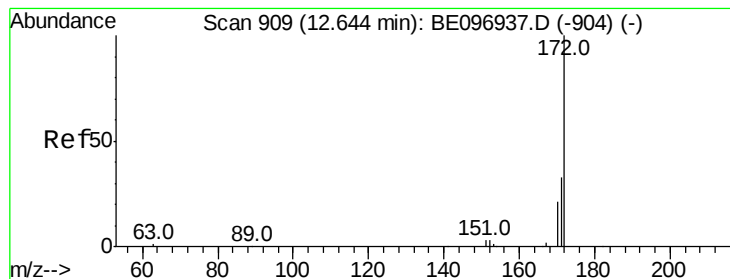
Tot Ion:164 Resp: 4167
 Ion Ratio Lower Upper
 164 100
 162 105.8 83.1 124.7
 160 54.3 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.556 ng
 RT: 15.52 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: BE097004.D
 Acq: 19 Jul 2018 14:35

Tgt Ion:330 Resp: 538
 Ion Ratio Lower Upper
 330 100
 332 101.9 152.7 229.1#
 141 40.3 33.7 50.5





#15

2-Fluorobiphenyl

Concen: 0.461 ng

RT: 12.63 min Scan# 908

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

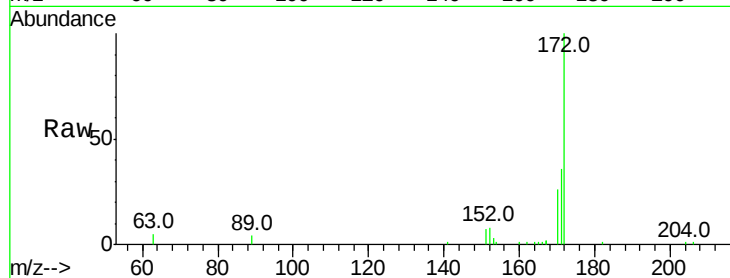
Tot Ion:172 Resp: 7142

Ion Ratio Lower Upper

172 100

171 36.1 29.9 44.9

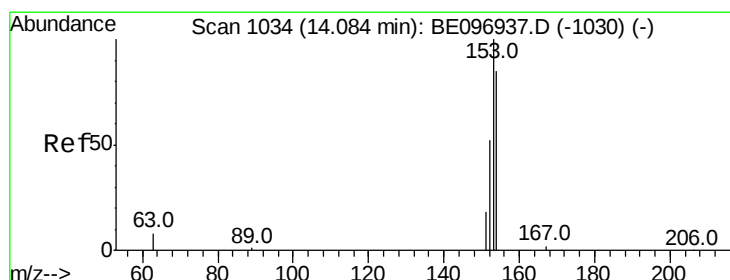
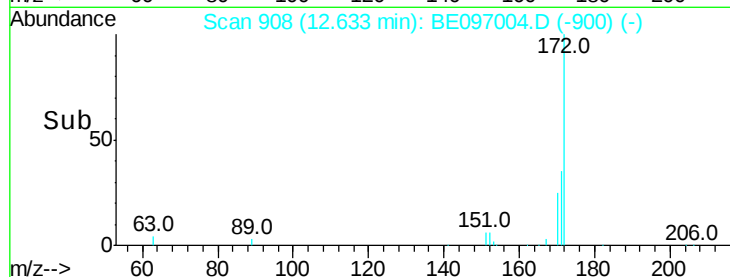
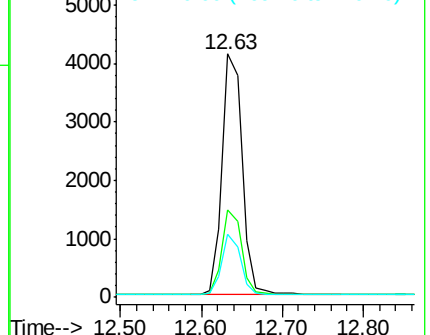
170 26.1 21.8 32.8



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



#17

Acenaphthene

Concen: 0.024 ng

RT: 14.08 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

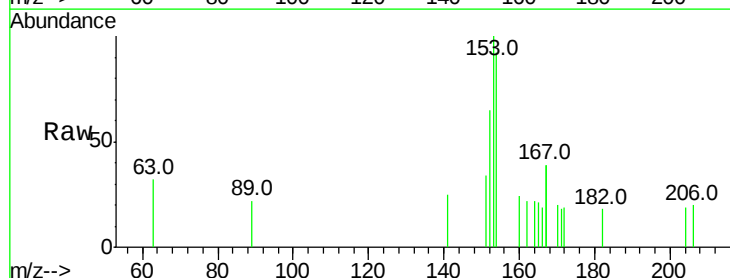
Tgt Ion:154 Resp: 281

Ion Ratio Lower Upper

154 100

153 113.5 89.2 133.8

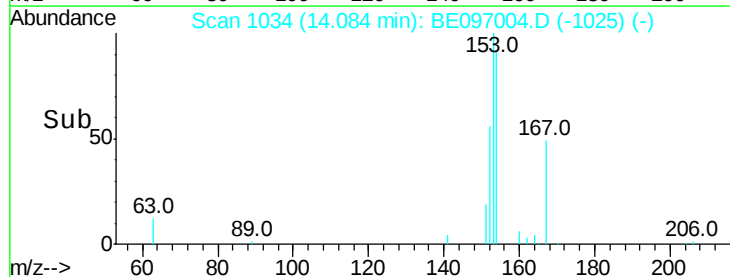
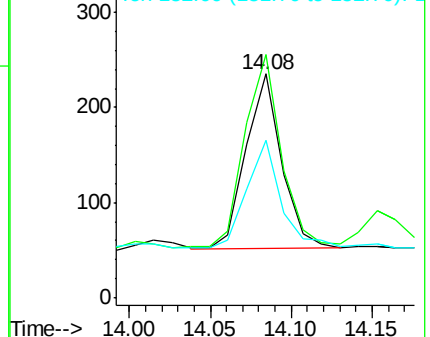
152 60.1 42.0 63.0

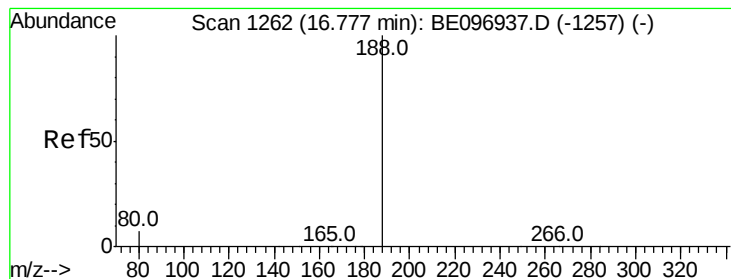


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.77 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

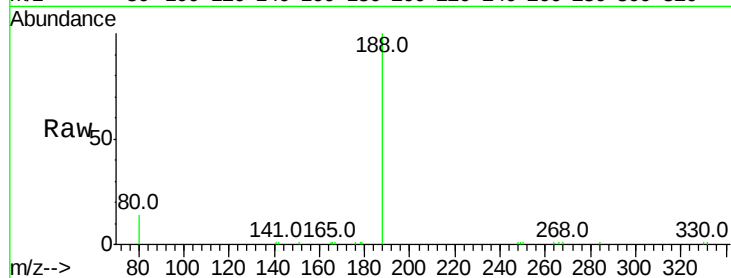
Tot Ion:188 Resp: 12264

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

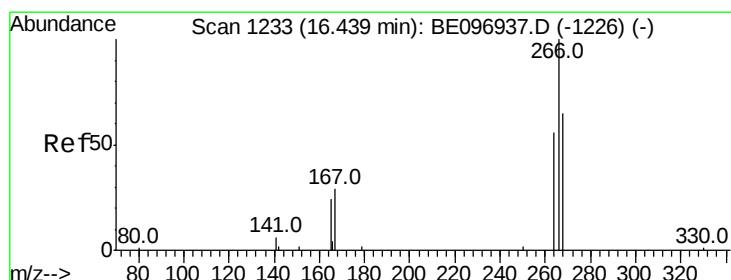
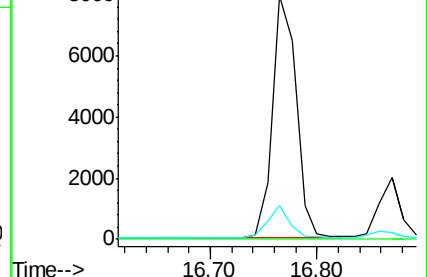
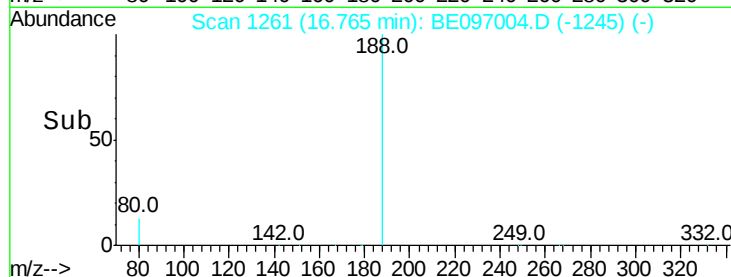
80 13.6 3.6 5.4#



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



#22

Pentachlorophenol

Concen: 0.127 ng

RT: 16.43 min Scan# 1232

Delta R.T. -0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

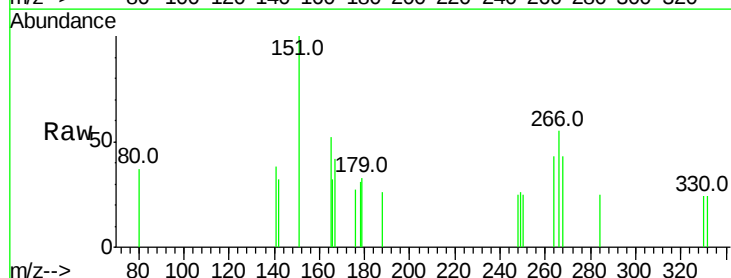
Tgt Ion:266 Resp: 113

Ion Ratio Lower Upper

266 100

264 77.7 72.5 108.7

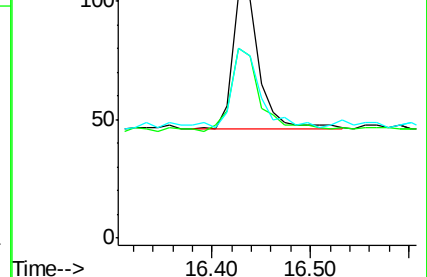
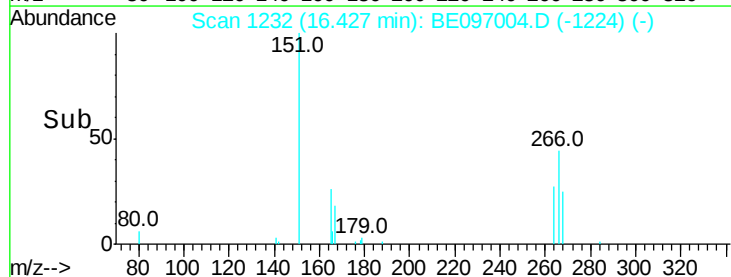
268 77.7 73.8 110.6

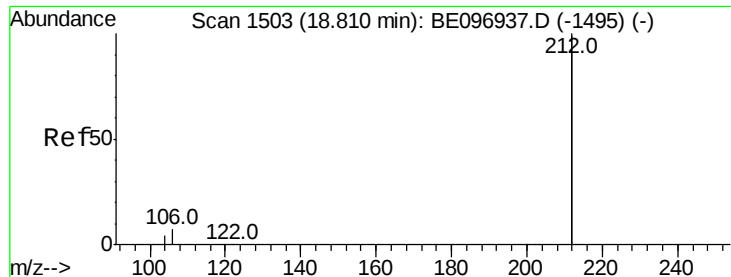


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.535 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

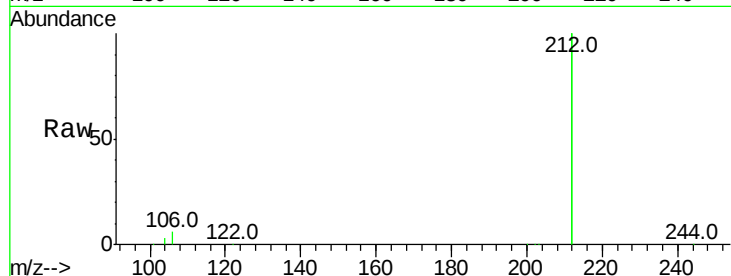
Tot Ion:212 Resp: 57052

Ion Ratio Lower Upper

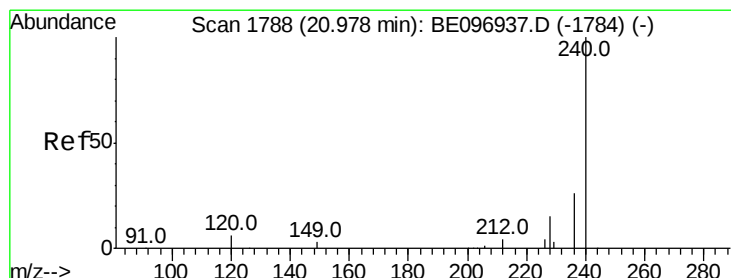
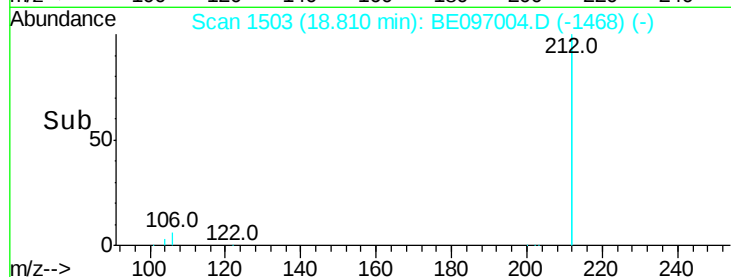
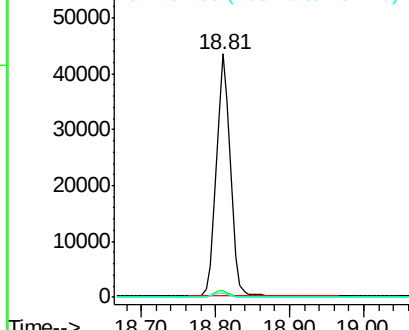
212 100

106 3.1 2.8 4.2

104 1.6 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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.98 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

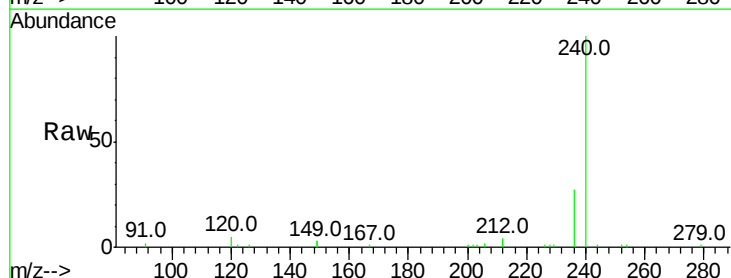
Tgt Ion:240 Resp: 11424

Ion Ratio Lower Upper

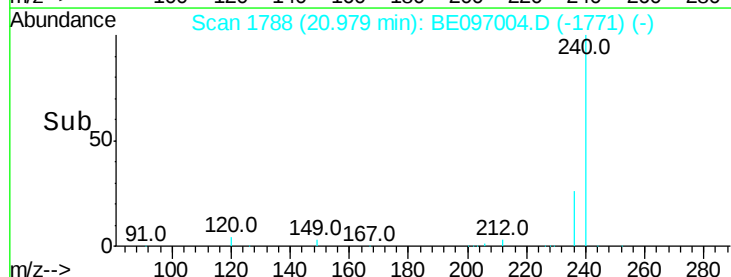
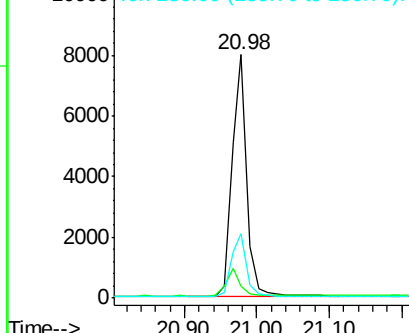
240 100

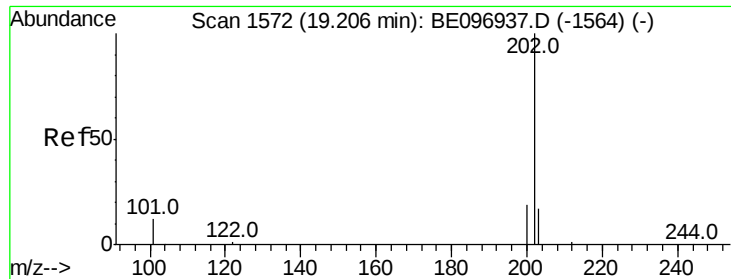
120 4.8 5.5 8.3#

236 26.7 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

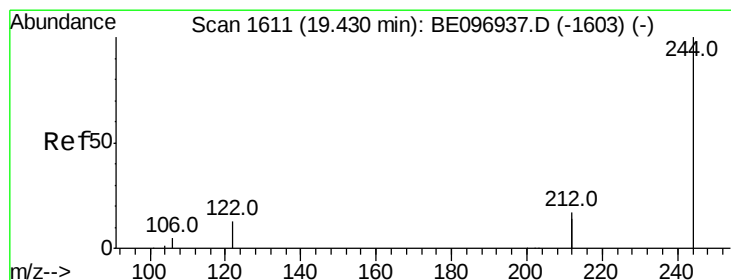
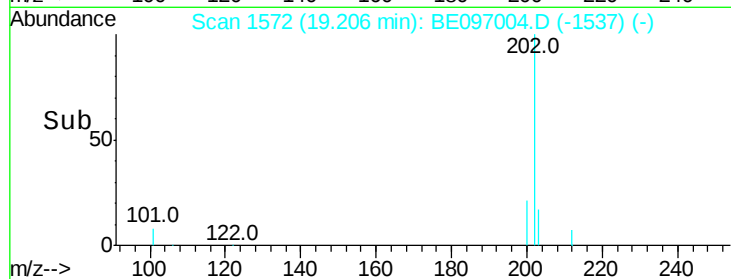
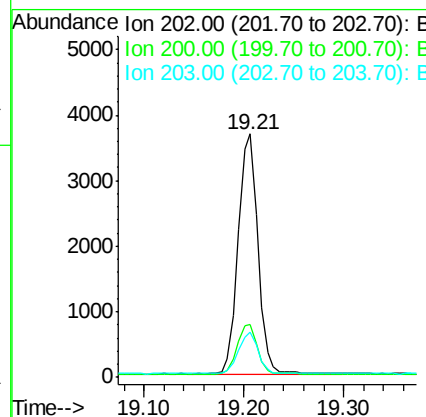
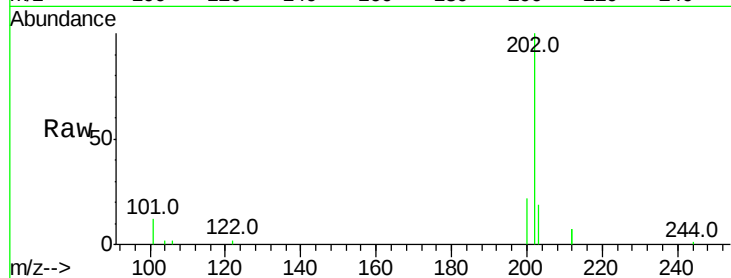




#28
Pvrene
Concen: 0.149 ng
RT: 19.21 min Scan# 1572
Delta R.T. 0.00 min
Lab File: BE097004.D
Acq: 19 Jul 2018 14:35

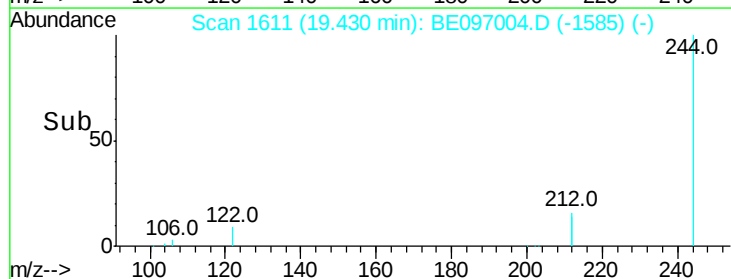
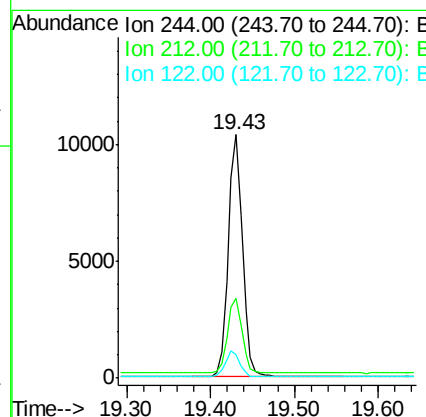
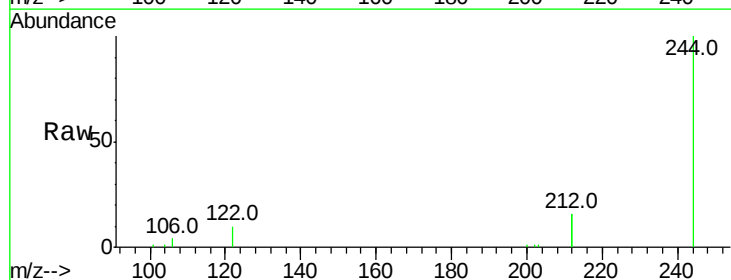
Instrument :
BNA_E
ClientSampleId :

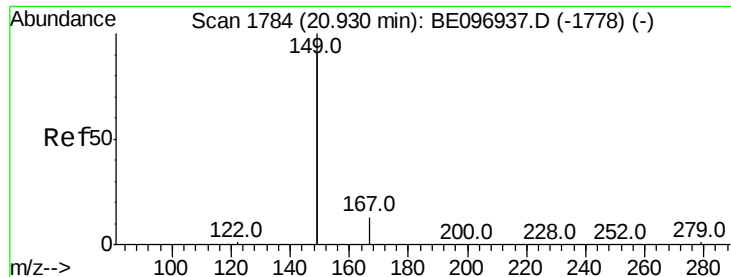
Tot Ion:202 Resp: 5034
Ion Ratio Lower Upper
202 100
200 21.3 16.6 25.0
203 17.3 13.8 20.8



#29
Terphenyl-d14
Concen: 0.560 ng
RT: 19.43 min Scan# 1611
Delta R.T. 0.00 min
Lab File: BE097004.D
Acq: 19 Jul 2018 14:35

Tgt Ion:244 Resp: 12338
Ion Ratio Lower Upper
244 100
212 32.7 25.4 38.0
122 9.7 8.1 12.1

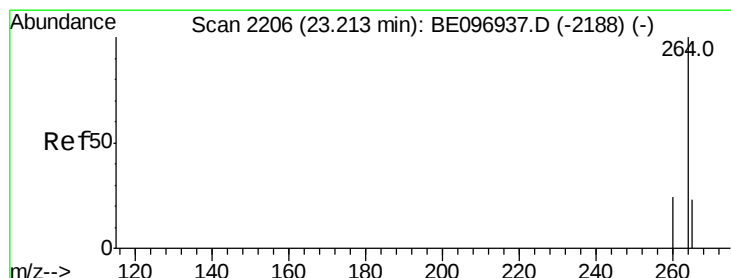
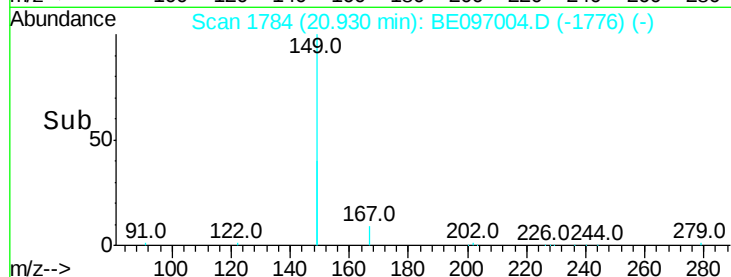
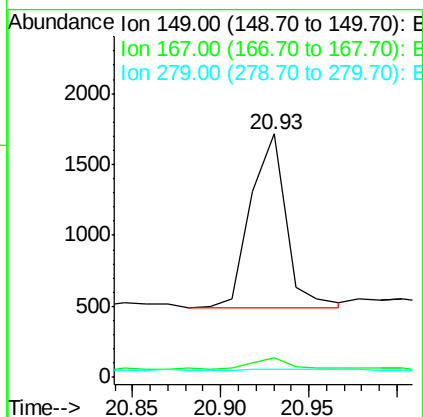
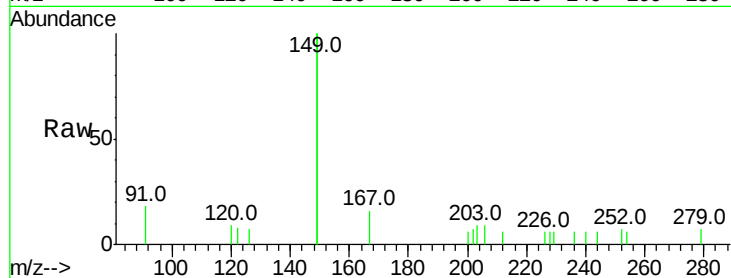




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.063 ng
 RT: 20.93 min Scan# 1784
 Delta R.T. 0.00 min
 Lab File: BE097004.D
 Acq: 19 Jul 2018 14:35

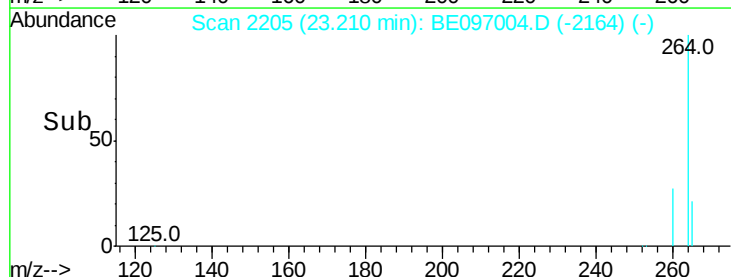
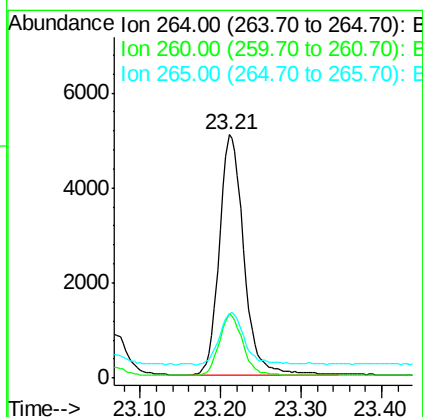
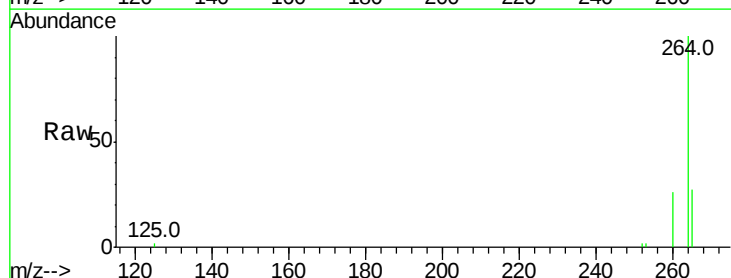
Instrument :
 BNA_E
 ClientSampleId :

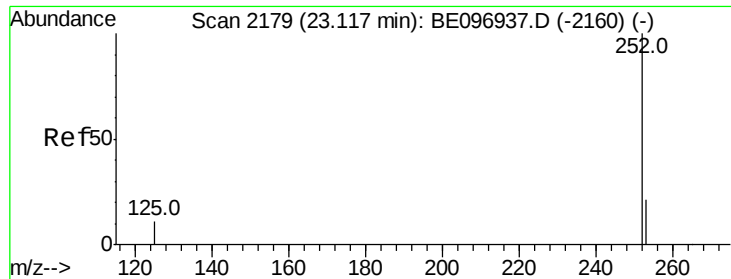
Tot Ion:149 Resp: 1704
 Ion Ratio Lower Upper
 149 100
 167 6.6 5.4 8.0
 279 1.5 0.7 1.1#



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.21 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: BE097004.D
 Acq: 19 Jul 2018 14:35

Tgt Ion:264 Resp: 10610
 Ion Ratio Lower Upper
 264 100
 260 26.4 20.5 30.7
 265 26.7 22.8 34.2





#37

Benzo(a)pyrene

Concen: 0.104 ng

RT: 23.11 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

Instrument :

BNA_E

ClientSampleId :

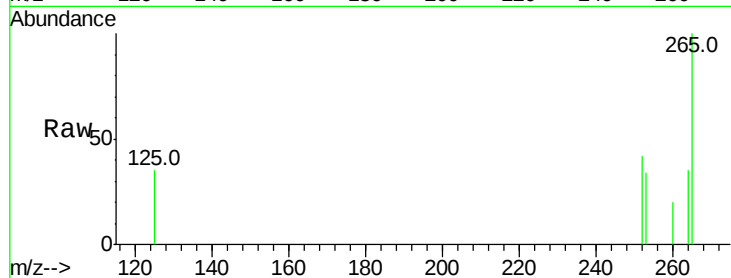
Tot Ion:252 Resp: 98

Ion Ratio Lower Upper

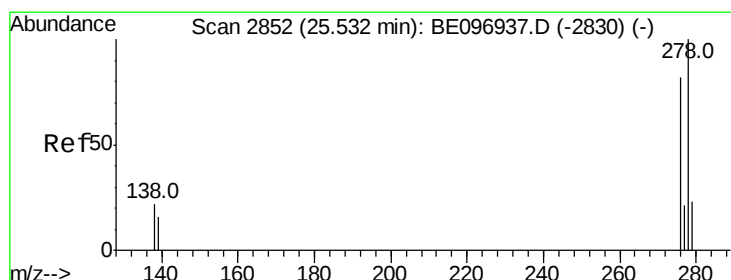
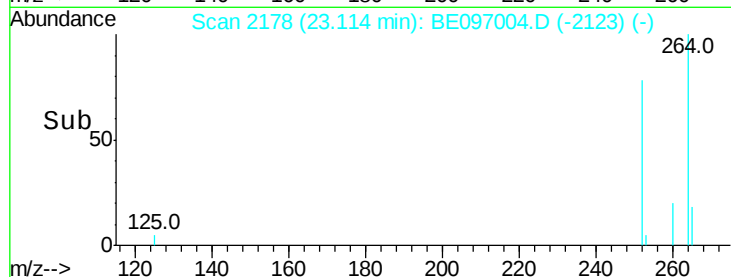
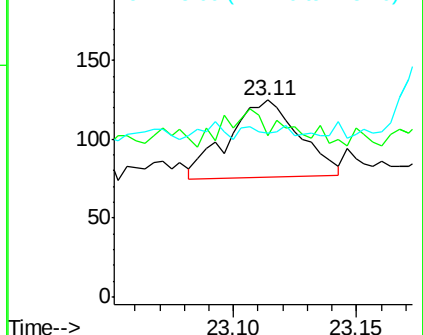
252 100

253 81.6 16.0 24.0#

125 83.2 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: 0.122 ng

RT: 25.54 min Scan# 2854

Delta R.T. 0.01 min

Lab File: BE097004.D

Acq: 19 Jul 2018 14:35

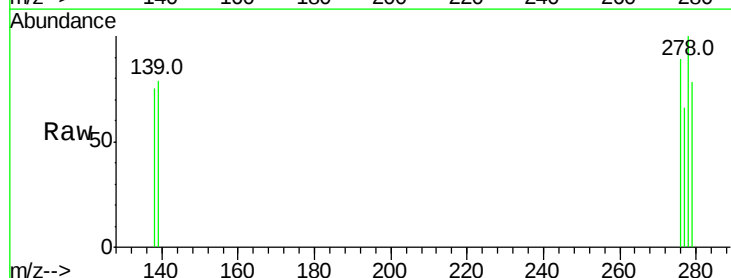
Tgt Ion:278 Resp: 117

Ion Ratio Lower Upper

278 100

139 79.3 16.0 24.0#

279 78.2 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

