

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\
 Data File : BF097616.D
 Acq On : 12 Aug 2017 2:47
 Operator : SJ/JU
 Sample : I4631-07
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VE-3-1

Quant Time: Aug 12 03:19:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

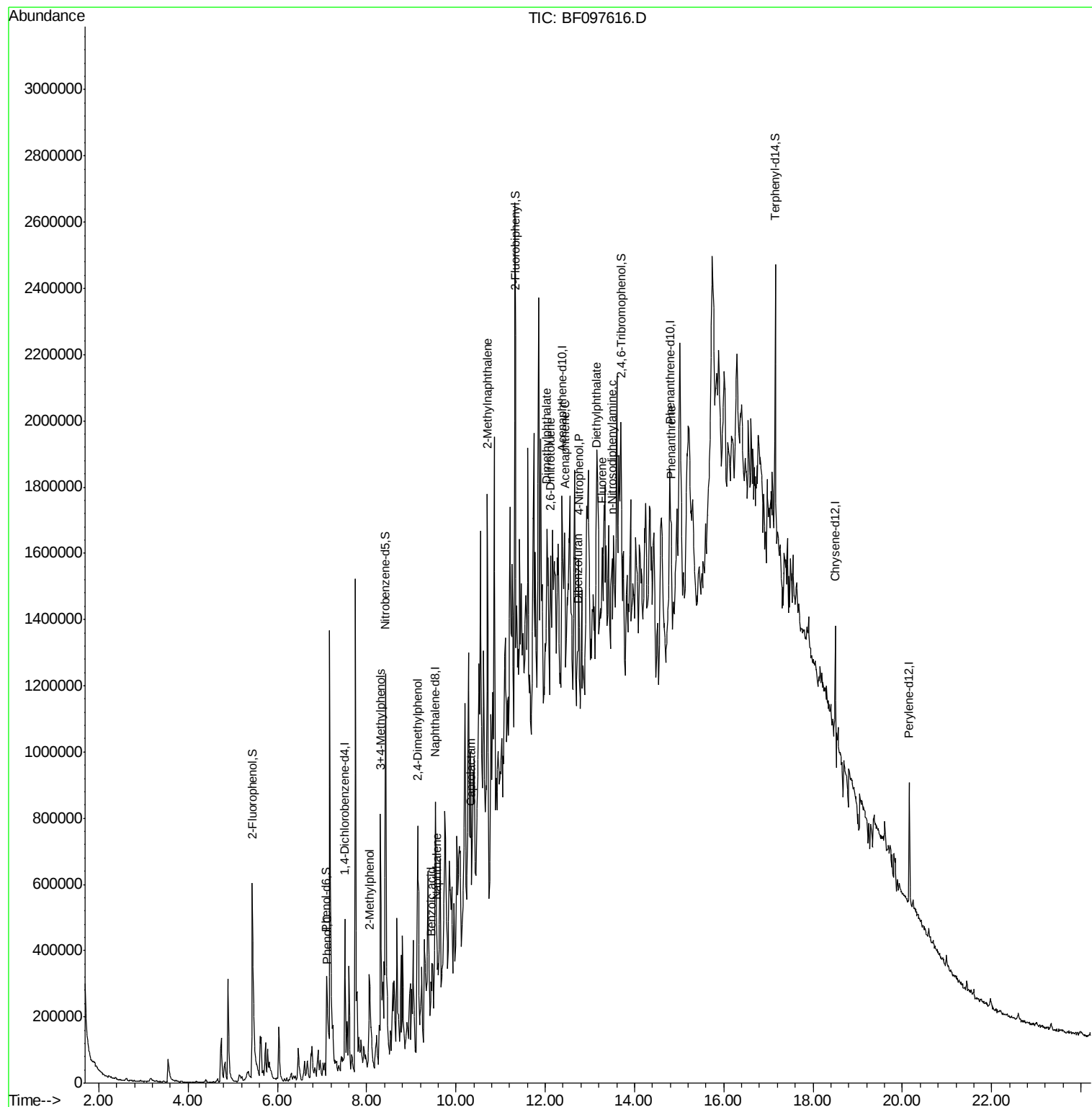
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	92213	20.00	ng	0.00
21) Naphthalene-d8	9.54	136	327757	20.00	ng	0.00
38) Acenaphthene-d10	12.37	164	122387	20.00	ng	0.00
63) Phenanthrene-d10	14.79	188	148515	20.00	ng	0.03
75) Chrysene-d12	18.50	240	179891	20.00	ng	0.04
86) Perylene-d12	20.16	264	169156	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	398452	68.68	ng	0.04
7) Phenol-d6	7.10	99	277654	38.58	ng	0.04
23) Nitrobenzene-d5	8.43	82	476020	91.07	ng	0.00
41) 2,4,6-Tribromophenol	13.70	330	109443	117.63	ng	0.04
44) 2-Fluorobiphenyl	11.33	172	675282	83.27	ng	0.00
78) Terphenyl-d14	17.16	244	470033	54.08	ng	0.04
Target Compounds						Qvalue
10) Phenol	7.13	94	46960	5.96	ng	82
17) 2-Methylphenol	8.06	107	63902	12.40	ng	# 95
20) 3+4-Methylphenols	8.31	107	372388	58.99	ng	# 57
27) 2,4-Dimethylphenol	9.13	122	78230	16.28	ng	98
31) Naphthalene	9.58	128	41420	2.52	ng	# 84
32) Benzoic acid	9.44	122	23758	9.18	ng	# 22
35) Caprolactam	10.35	113	6281	4.60	ng	# 1
37) 2-Methylnaphthalene	10.71	142	339982	32.91	ng	97
49) Dimethylphthalate	12.03	163	24810	2.63	ng	# 5
50) 2,6-Dinitrotoluene	12.12	165	15802	8.11	ng	# 1
51) Acenaphthene	12.43	154	44121	5.74	ng	94
54) Dibenzofuran	12.72	168	39799	3.70	ng	# 77
55) 4-Nitrophenol	12.75	139	8964	9.23	ng	# 1
57) Fluorene	13.27	166	59638	6.74	ng	# 97
59) Diethylphthalate	13.14	149	42491	4.77	ng	# 84
65) n-Nitrosodiphenylamine	13.50	169	22088	4.02	ng	# 61
70) Phenanthrene	14.83	178	94747	11.08	ng	# 88

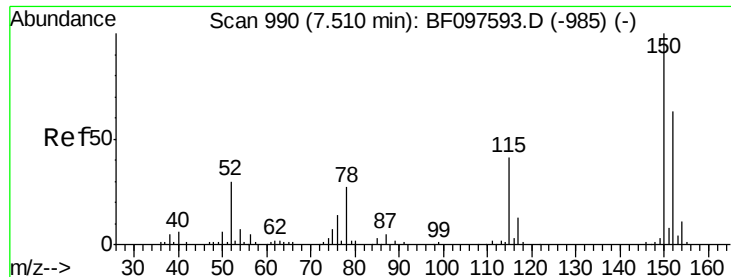
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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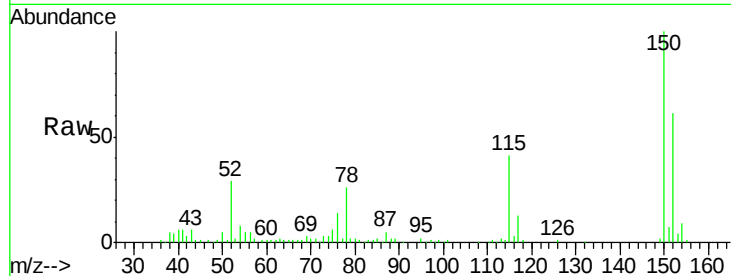


#1

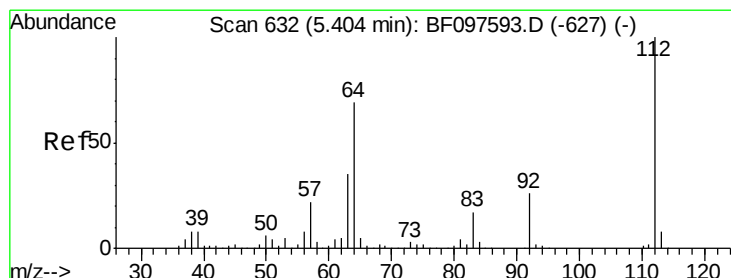
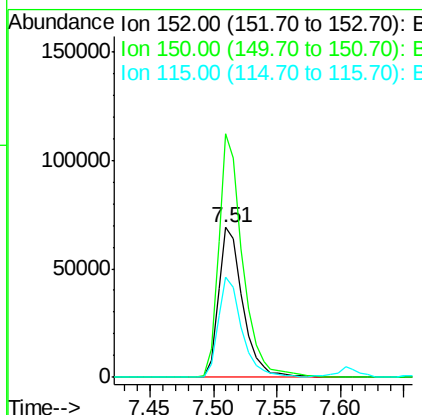
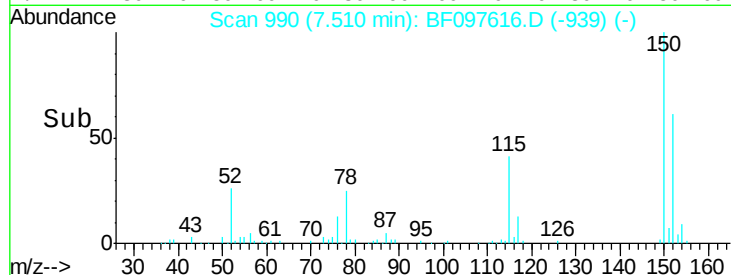
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.51 min Scan# 990
Delta R.T. -0.00 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

Instrument :
BNA_F
ClientSampled :
VE-3-1

Tot Ion:152 Resp: 92213
Ion Ratio Lower Upper
152 100
150 162.6 126.2 189.2
115 67.4 52.2 78.2



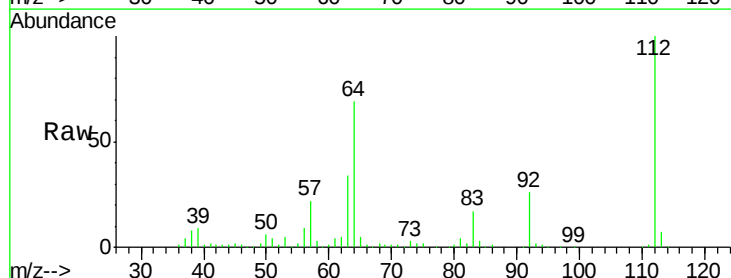
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



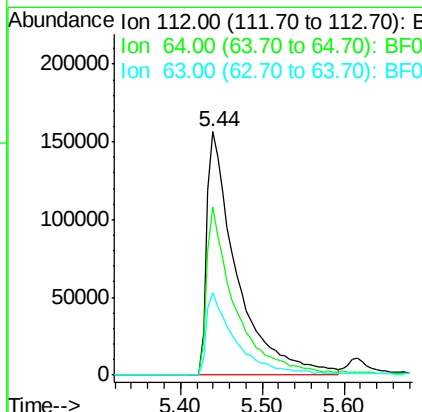
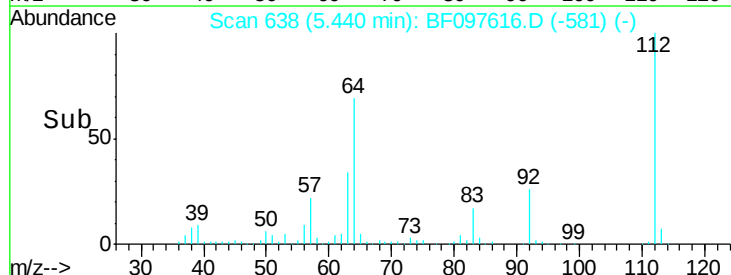
#5

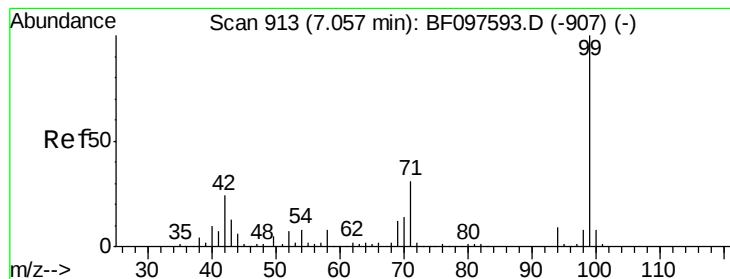
2-Fluorophenol
Concen: 68.68 ng
RT: 5.44 min Scan# 638
Delta R.T. 0.04 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

Tgt Ion:112 Resp: 398452
Ion Ratio Lower Upper
112 100
64 68.9 46.0 69.0
63 33.6 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 38.58 ng

RT: 7.10 min Scan# 920

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampled :

VE-3-1

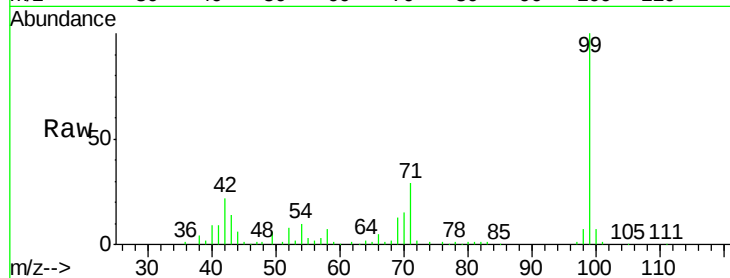
Tot Ion: 99 Resp: 277654

Ion Ratio Lower Upper

99 100

42 22.1 13.5 20.3#

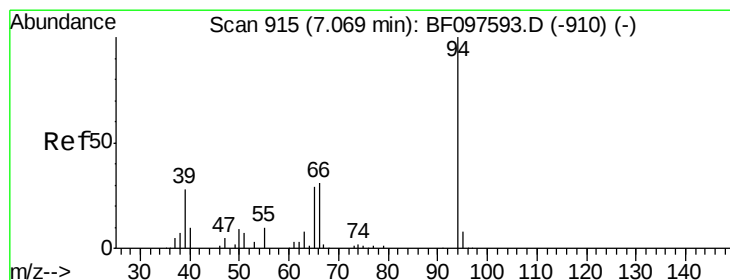
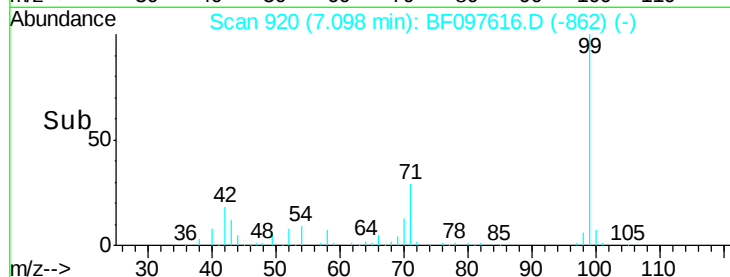
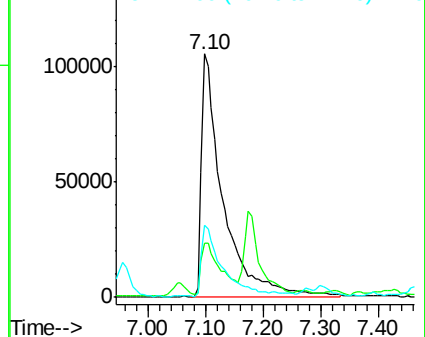
71 29.5 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.96 ng

RT: 7.13 min Scan# 925

Delta R.T. 0.06 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

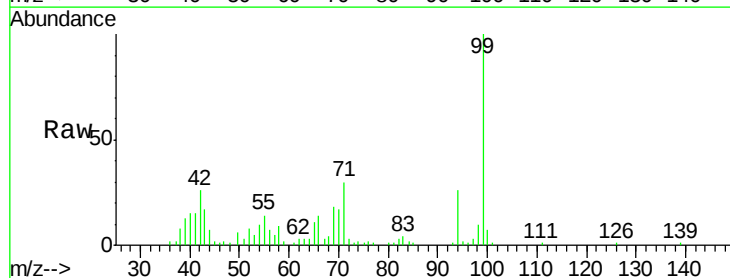
Tgt Ion: 94 Resp: 46960

Ion Ratio Lower Upper

94 100

65 42.0 9.9 49.9

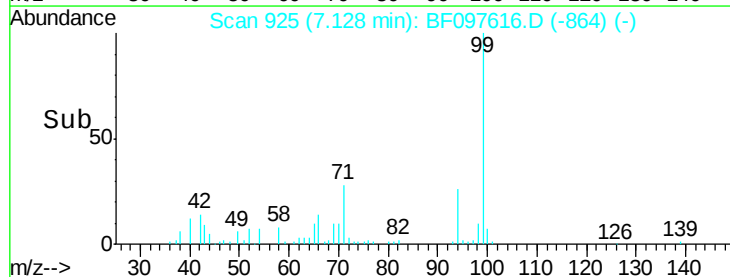
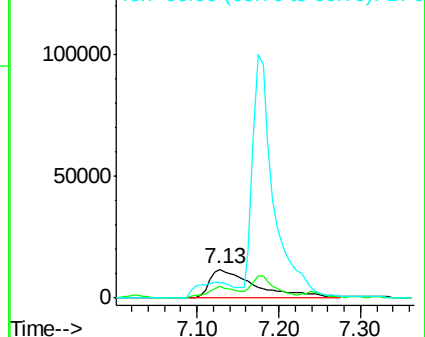
66 53.2 23.1 63.1

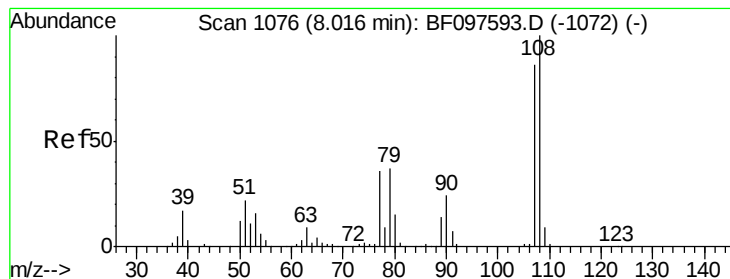


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#17

2-Methylphenol

Concen: 12.40 ng

RT: 8.06 min Scan# 1084

Delta R.T. 0.05 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

Tot Ion:107 Resp: 63902

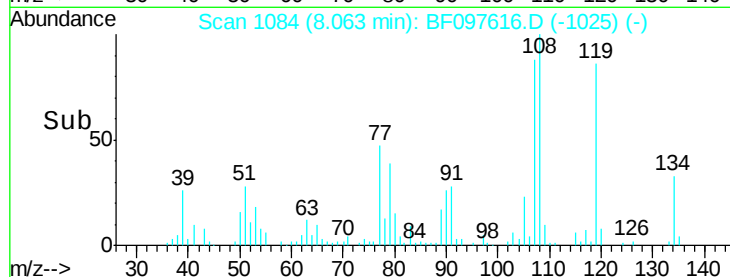
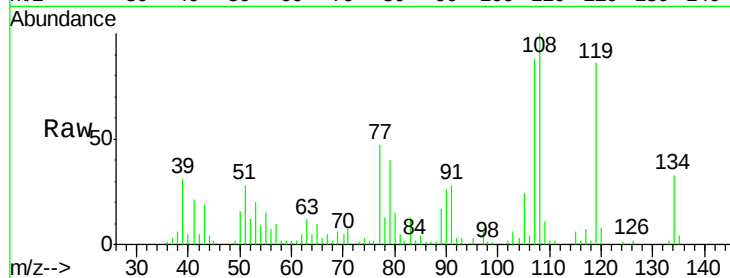
Ion Ratio Lower Upper

107 100

108 113.2 93.4 140.0

77 53.7 35.8 53.6#

79 45.0 34.8 52.2



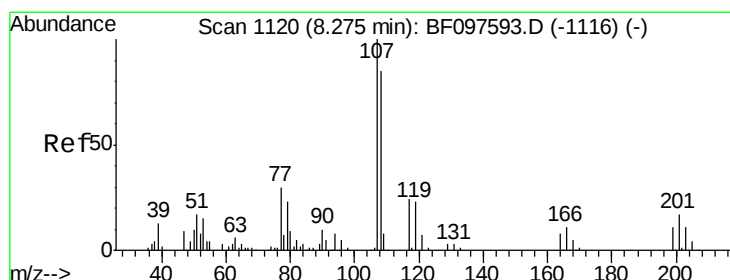
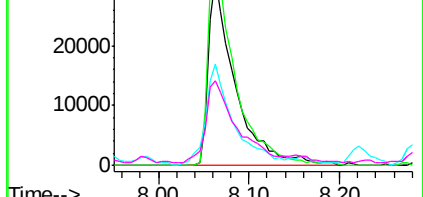
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

Time-->



#20

3+4-Methylphenols

Concen: 58.99 ng

RT: 8.31 min Scan# 1126

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Tgt Ion:107 Resp: 372388

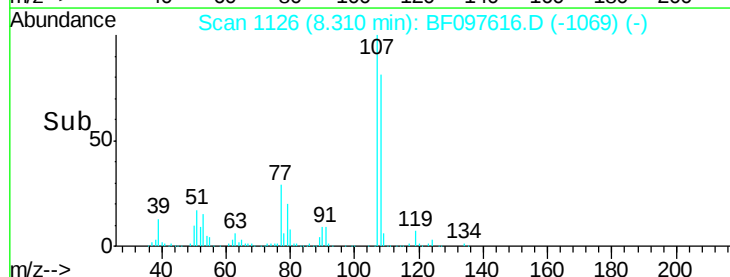
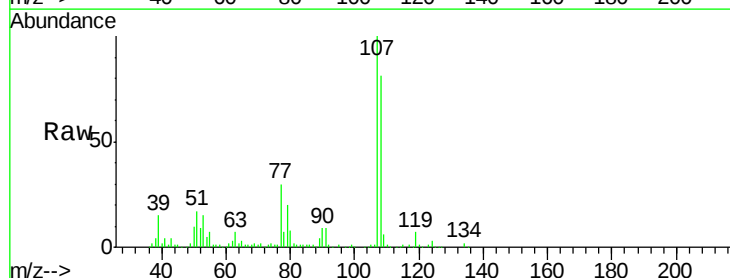
Ion Ratio Lower Upper

107 100

108 81.0 71.0 111.0

77 29.9 90.5 130.5#

79 20.3 8.4 48.4



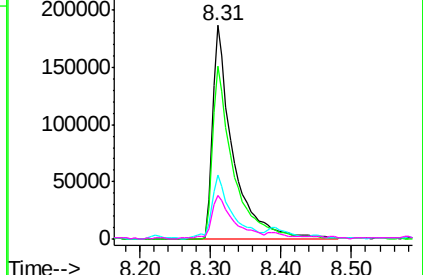
Abundance Ion 107.00 (106.70 to 107.70): E

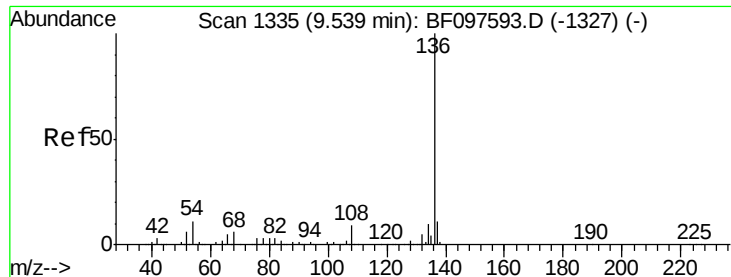
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

Time-->





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 1335

Delta R.T. -0.00 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

Tot Ion:136 Resp: 327757

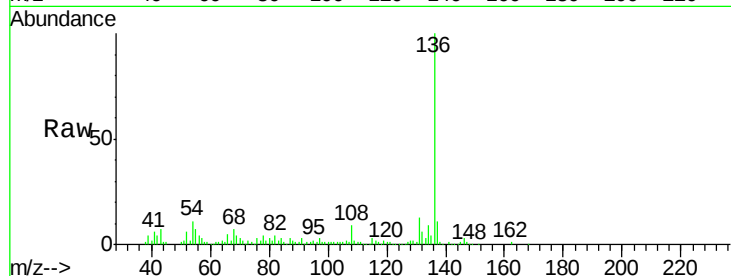
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 11.3 4.9 7.3#

68 6.6 4.1 6.1#

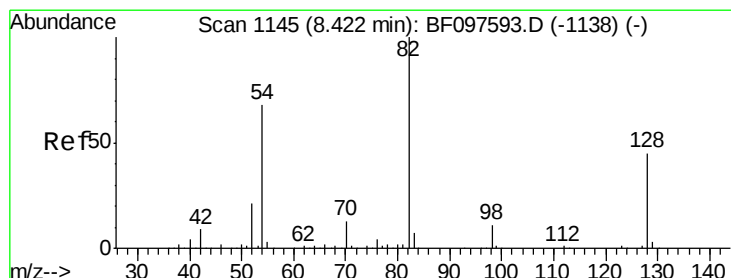
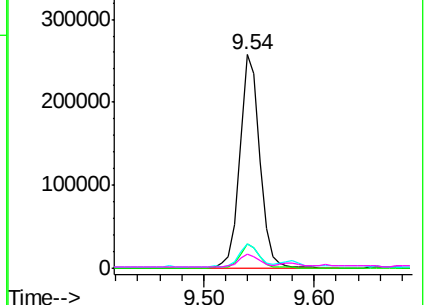
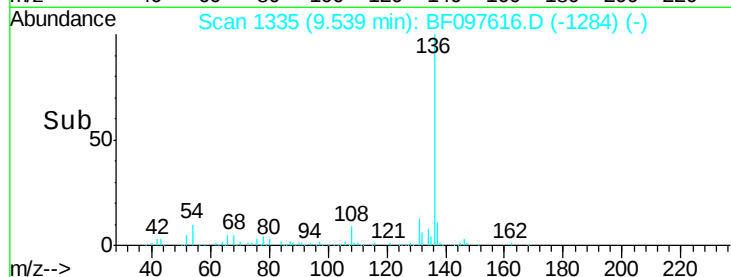


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 91.07 ng

RT: 8.43 min Scan# 1146

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

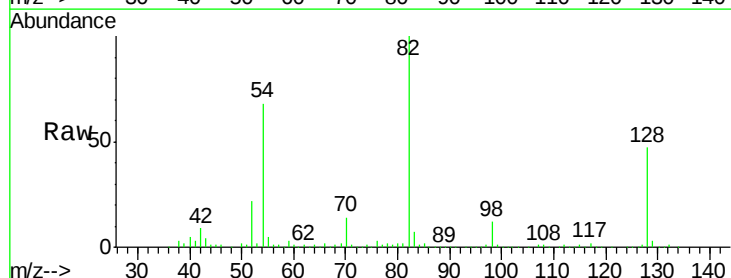
Tgt Ion: 82 Resp: 476020

Ion Ratio Lower Upper

82 100

128 46.9 34.0 51.0

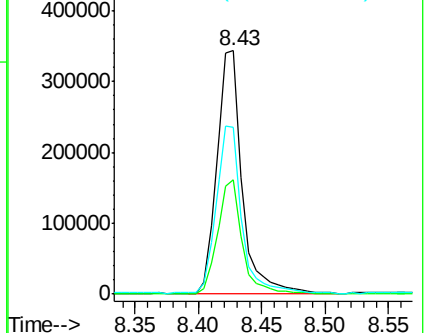
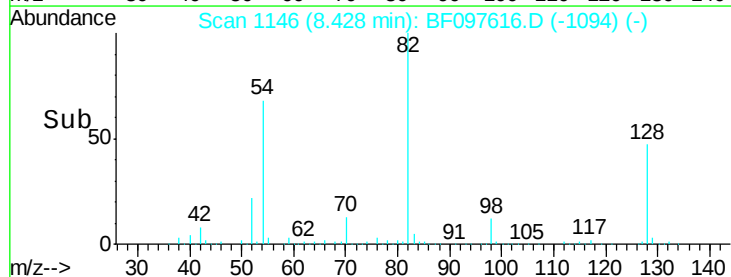
54 68.5 42.2 63.2#

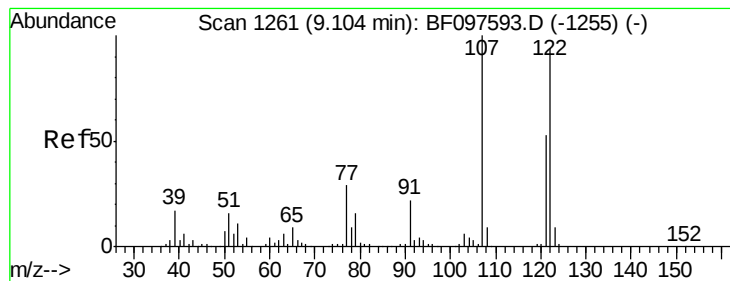


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 16.28 ng

RT: 9.13 min Scan# 1266

Delta R.T. 0.03 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampled :

VE-3-1

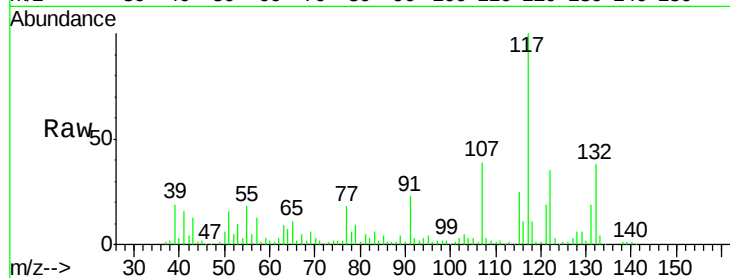
Tot Ion:122 Resp: 78230

Ion Ratio Lower Upper

122 100

107 112.4 89.2 133.8

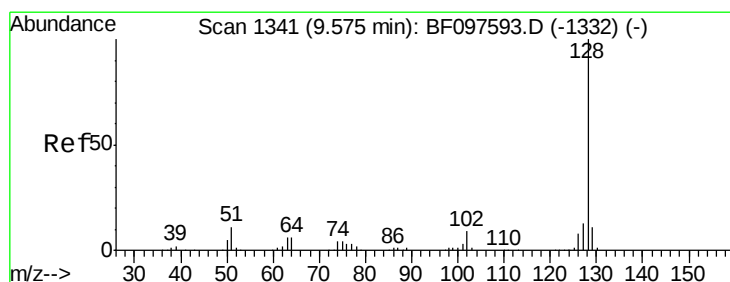
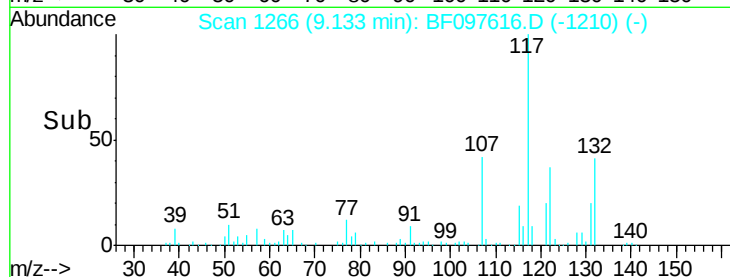
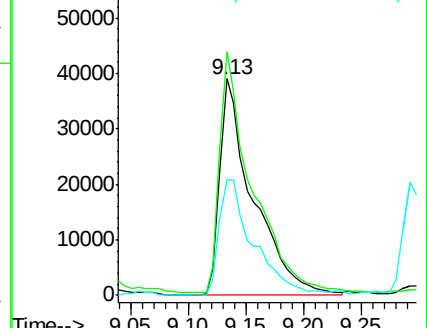
121 53.6 45.2 67.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31

Naphthalene

Concen: 2.52 ng

RT: 9.58 min Scan# 1342

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

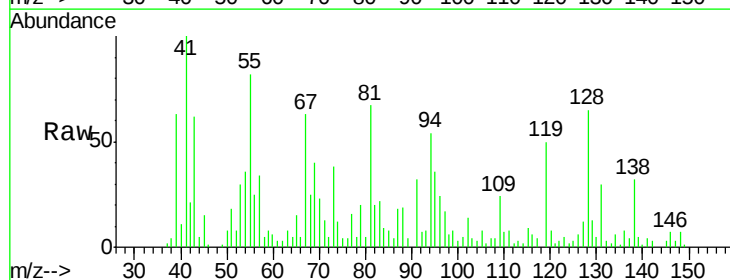
Tgt Ion:128 Resp: 41420

Ion Ratio Lower Upper

128 100

129 20.1 9.0 13.6#

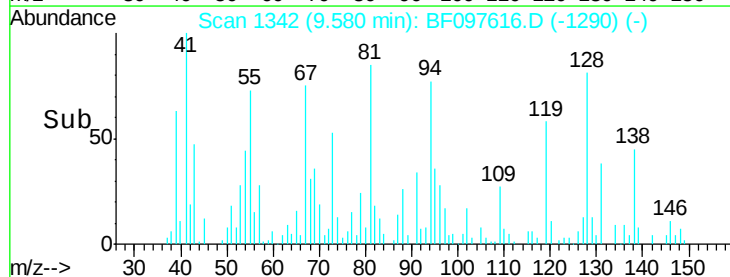
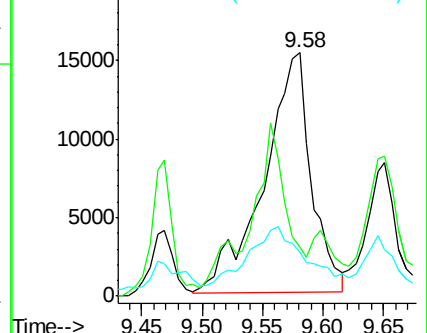
127 17.8 10.8 16.2#

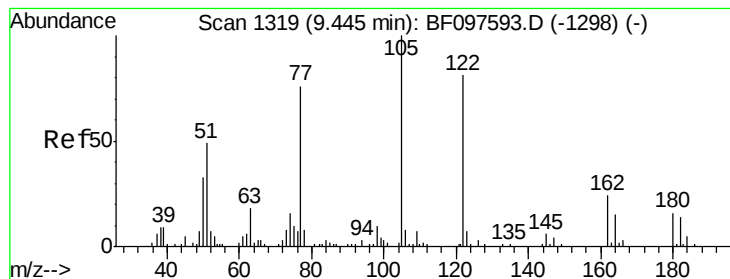


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 9.18 ng

RT: 9.44 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

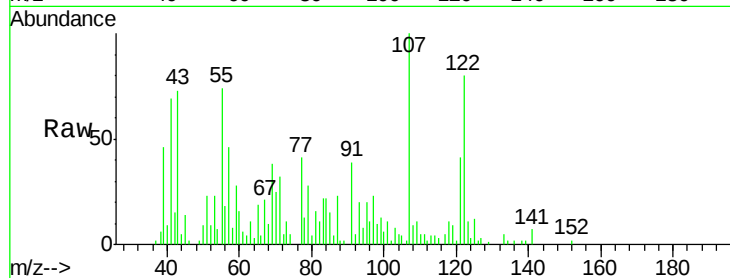
Tot Ion:122 Resp: 23758

Ion Ratio Lower Upper

122 100

105 5.4 103.3 143.3#

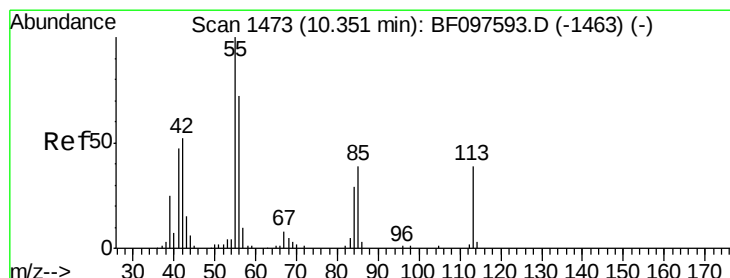
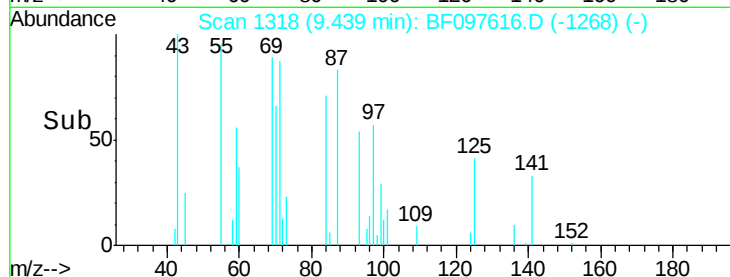
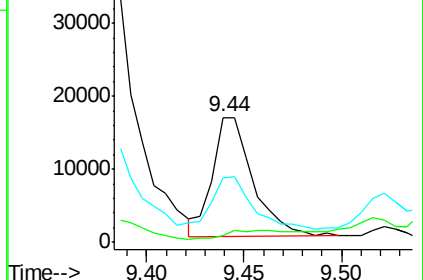
77 51.8 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#35

Caprolactam

Concen: 4.60 ng

RT: 10.35 min Scan# 1473

Delta R.T. -0.00 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

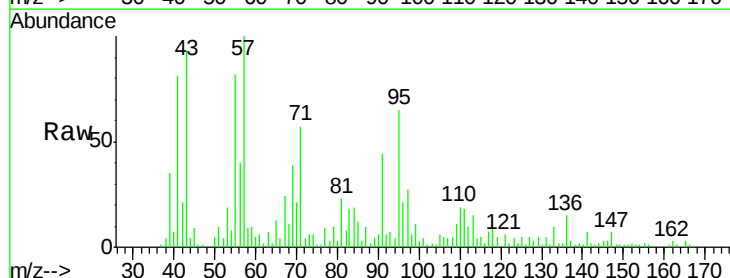
Tgt Ion:113 Resp: 6281

Ion Ratio Lower Upper

113 100

55 559.8 150.2 190.2#

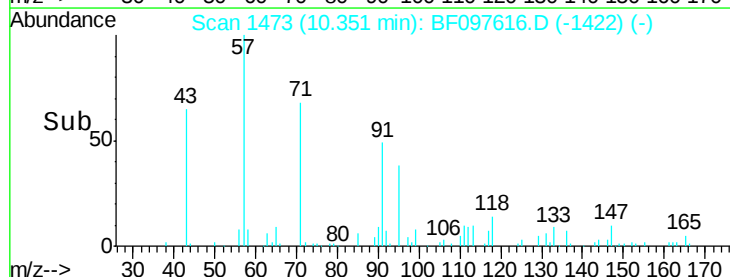
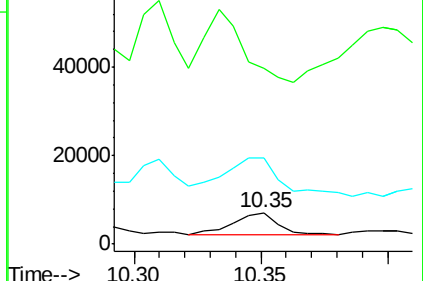
56 275.0 107.8 147.8#

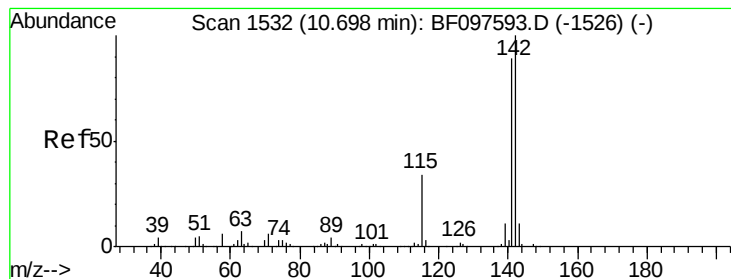


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0





#37

2-Methylnaphthalene

Concen: 32.91 ng

RT: 10.71 min Scan# 1534

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

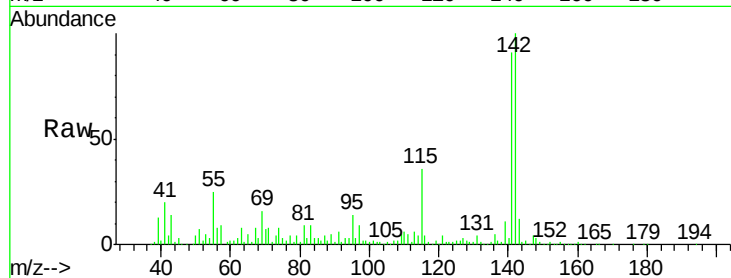
Tot Ion:142 Resp: 339982

Ion Ratio Lower Upper

142 100

141 91.3 71.3 106.9

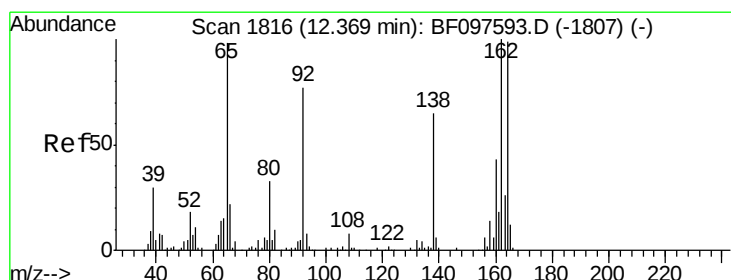
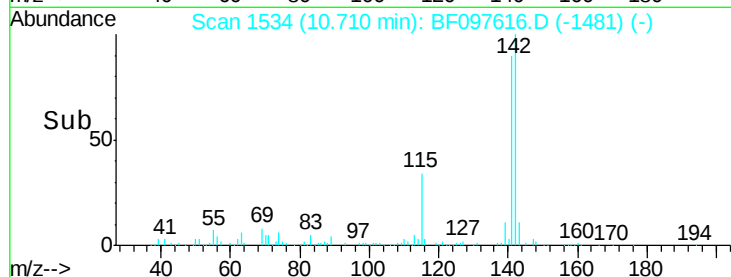
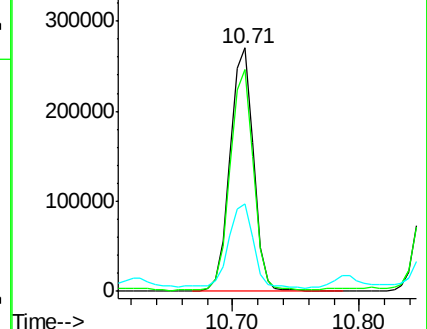
115 35.7 27.1 40.7



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.37 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

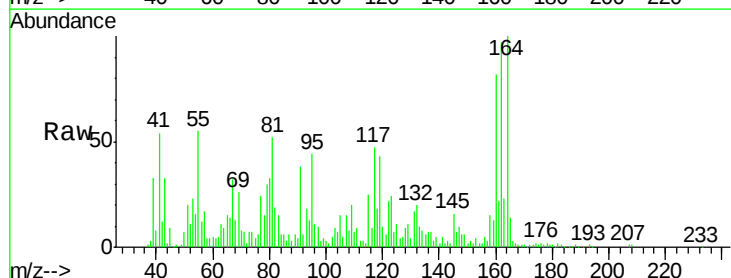
Tgt Ion:164 Resp: 122387

Ion Ratio Lower Upper

164 100

162 97.3 82.6 123.8

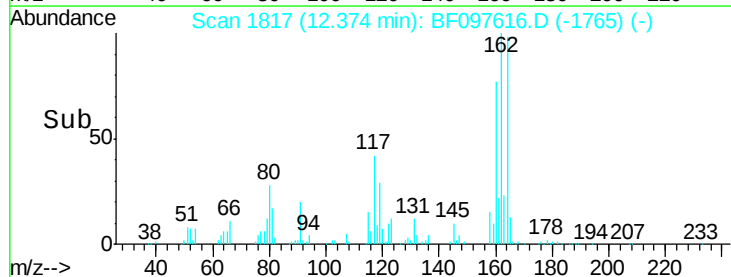
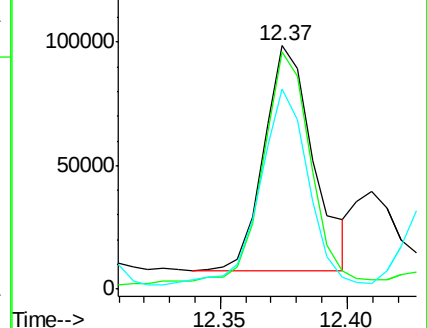
160 82.0 36.2 54.2#

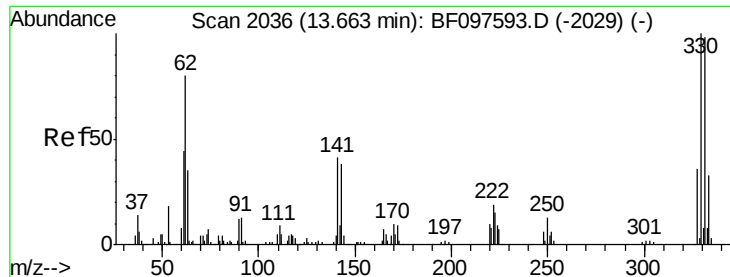


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

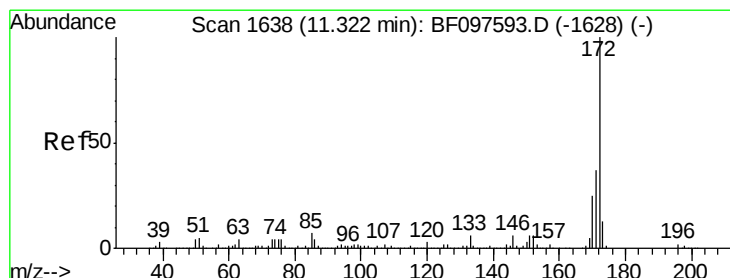
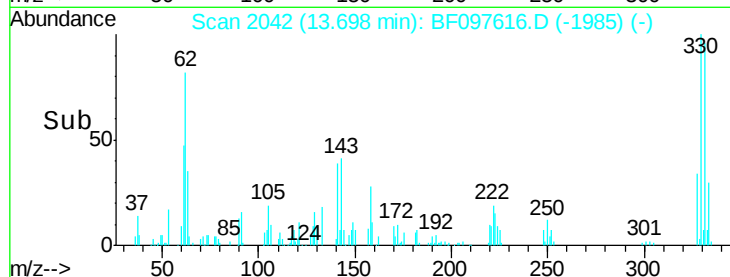
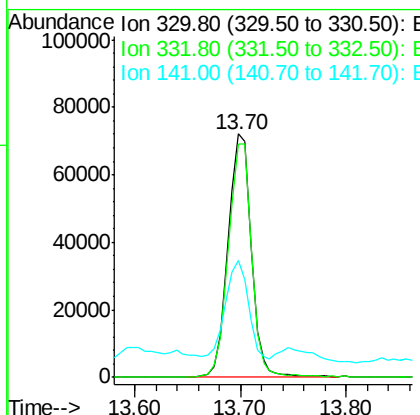
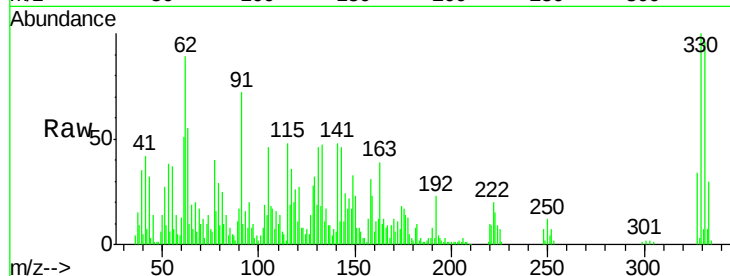




#41
2,4,6-Tribromophenol
Concen: 117.63 ng
RT: 13.70 min Scan# 2042
Delta R.T. 0.04 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

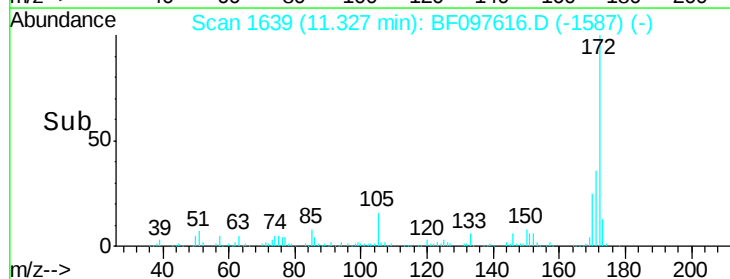
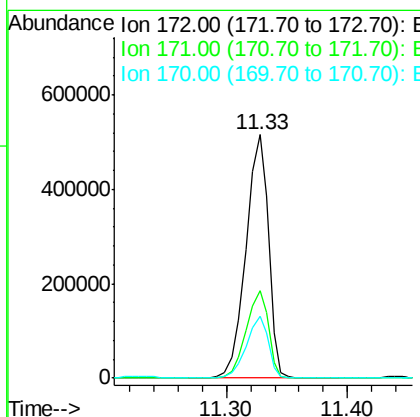
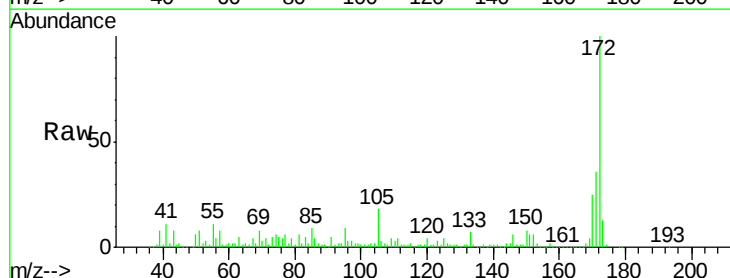
Instrument :
BNA_F
ClientSampled :
VE-3-1

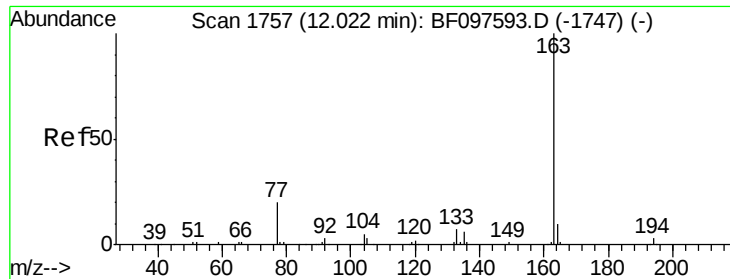
Tot Ion:330 Resp: 109443
Ion Ratio Lower Upper
330 100
332 96.3 76.6 115.0
141 39.0 31.4 47.2



#44
2-Fluorobiphenyl
Concen: 83.27 ng
RT: 11.33 min Scan# 1639
Delta R.T. 0.01 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

Tgt Ion:172 Resp: 675282
Ion Ratio Lower Upper
172 100
171 36.1 29.6 44.4
170 25.3 19.8 29.8





#49

Dimethylphthalate

Concen: 2.63 ng

RT: 12.03 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampled :

VE-3-1

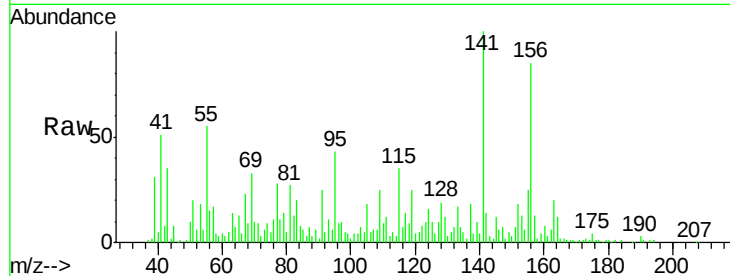
Tot Ion:163 Resp: 24810

Ion Ratio Lower Upper

163 100

194 4.1 2.6 4.0#

164 56.8 8.4 12.6#

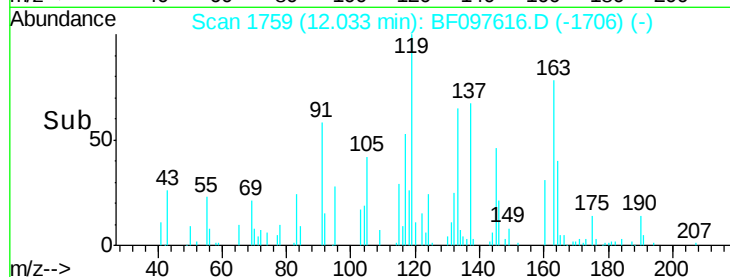


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

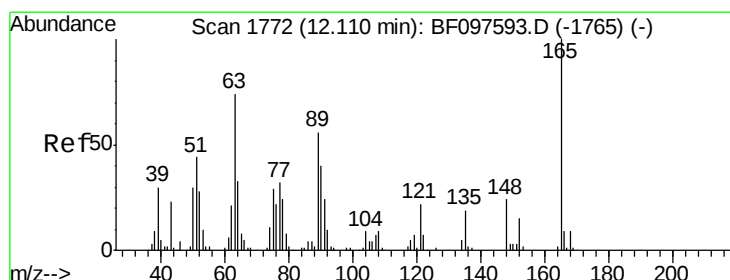
Ion 164.00 (163.70 to 164.70): E

Time-->



Abundance

Time-->



#50

2,6-Dinitrotoluene

Concen: 8.11 ng

RT: 12.12 min Scan# 1774

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

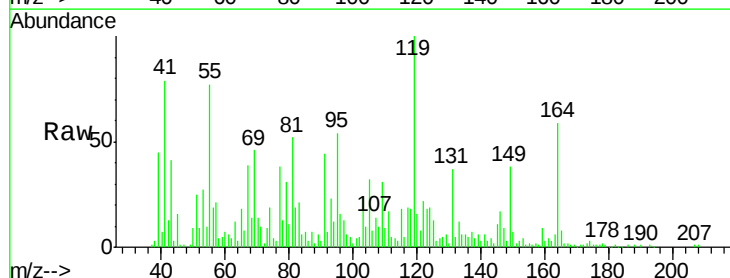
Tgt Ion:165 Resp: 15802

Ion Ratio Lower Upper

165 100

63 154.0 34.3 51.5#

89 75.4 37.1 55.7#

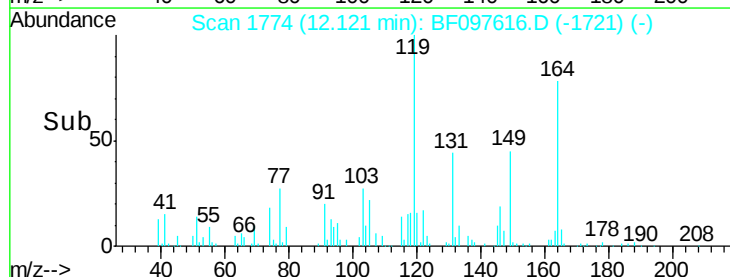


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

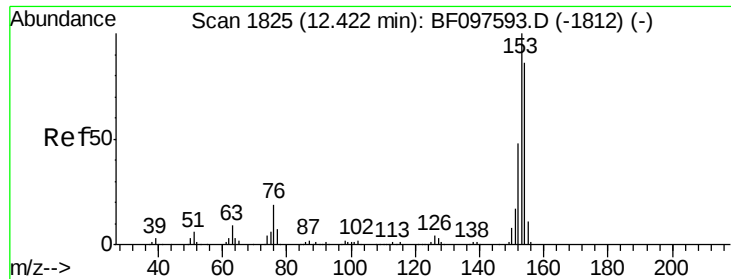
Ion 89.00 (88.70 to 89.70): BF0

Time-->



Abundance

Time-->



#51

Acenaphthene

Concen: 5.74 ng

RT: 12.43 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

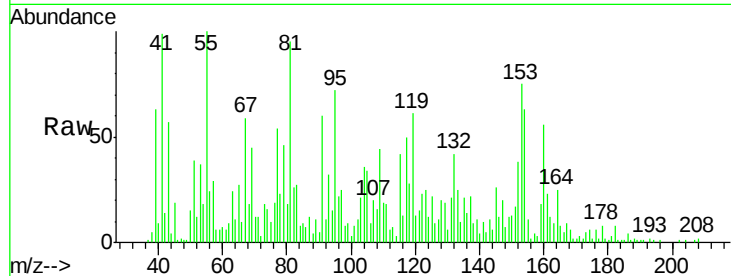
Tot Ion:154 Resp: 44121

Ion Ratio Lower Upper

154 100

153 118.3 90.5 135.7

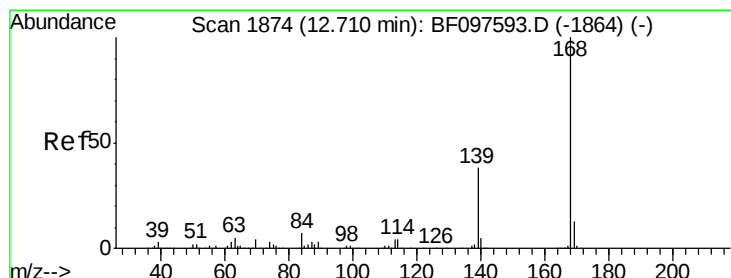
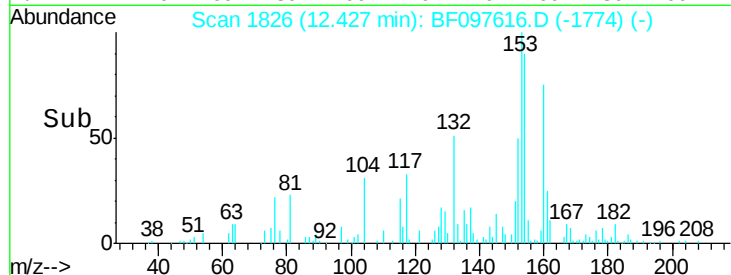
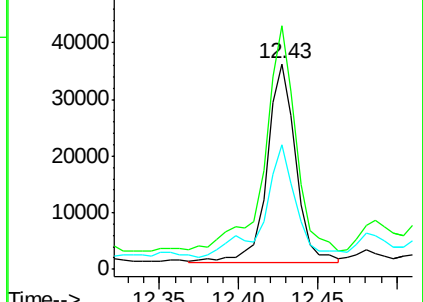
152 60.5 43.6 65.4



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



#54

Dibenzofuran

Concen: 3.70 ng

RT: 12.72 min Scan# 1876

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

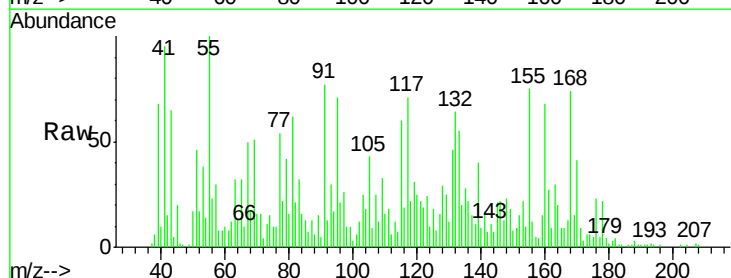
Tgt Ion:168 Resp: 39799

Ion Ratio Lower Upper

168 100

139 53.2 30.6 45.8#

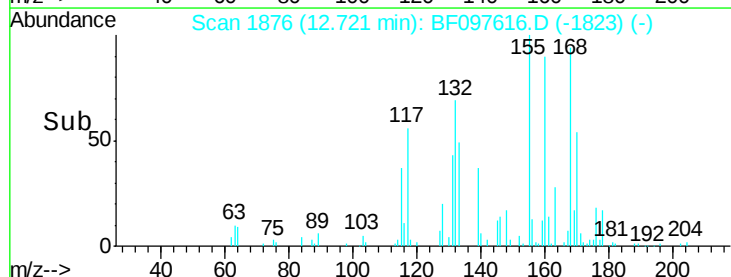
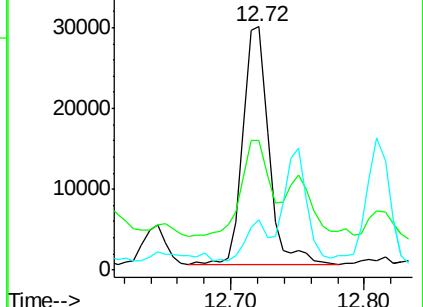
169 20.7 10.8 16.2#

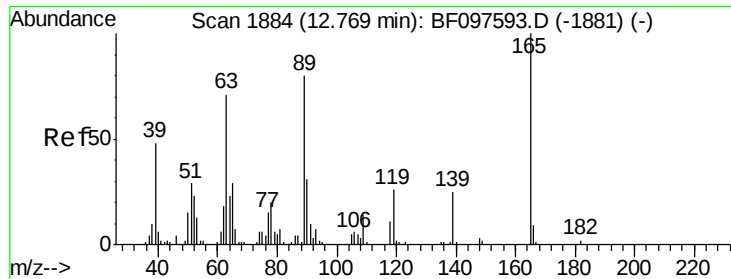


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 9.23 ng

RT: 12.75 min Scan# 1881

Delta R.T. -0.02 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

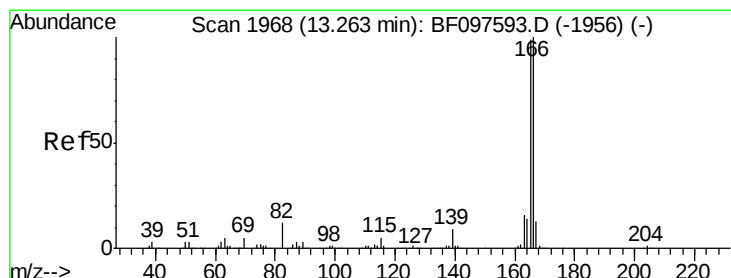
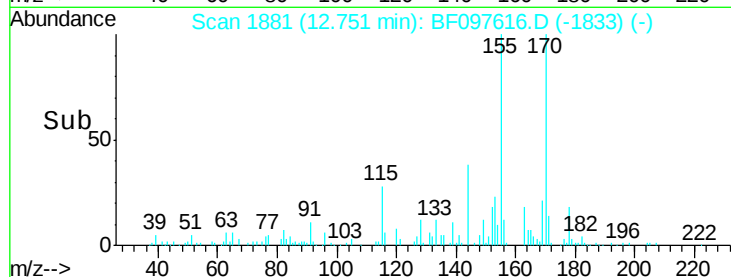
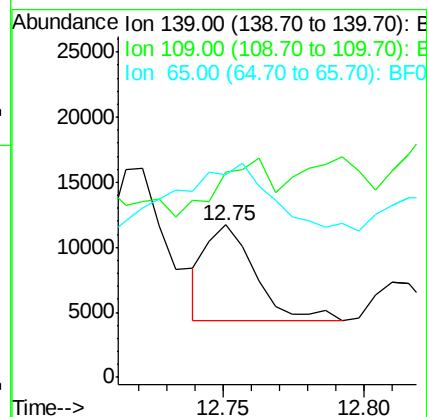
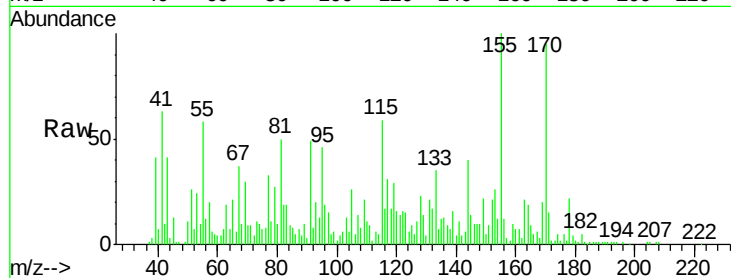
Tot Ion:139 Resp: 8964

Ion Ratio Lower Upper

139 100

109 134.7 34.1 74.1#

65 132.3 31.4 71.4#



#57

Fluorene

Concen: 6.74 ng

RT: 13.27 min Scan# 1970

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

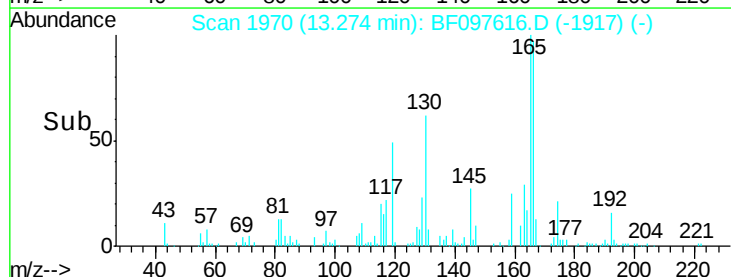
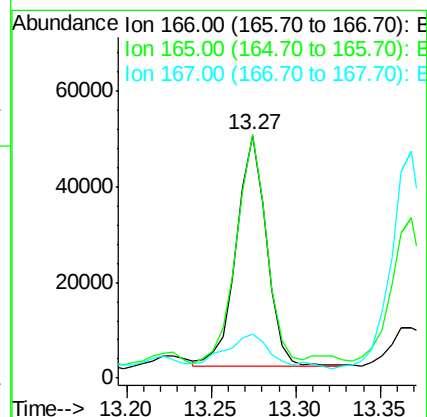
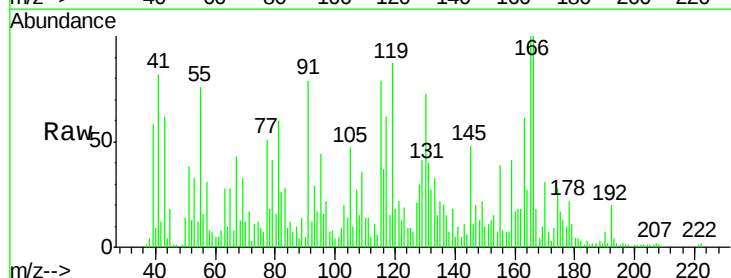
Tgt Ion:166 Resp: 59638

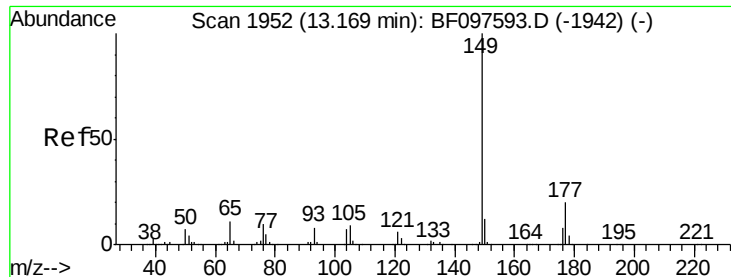
Ion Ratio Lower Upper

166 100

165 100.4 78.8 118.2

167 18.0 10.6 16.0#

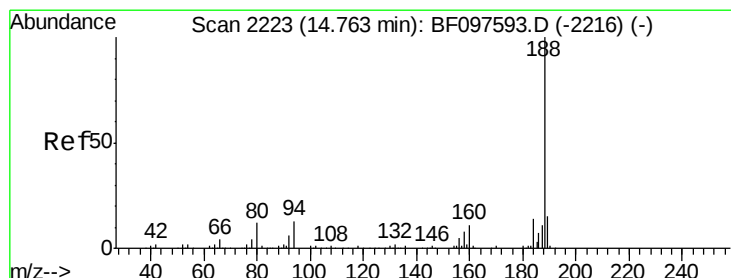
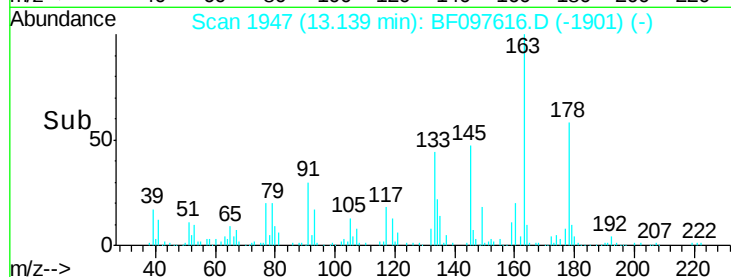
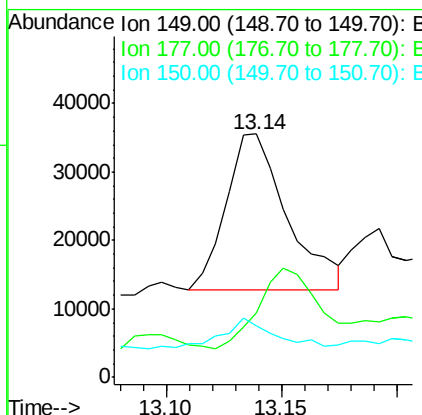
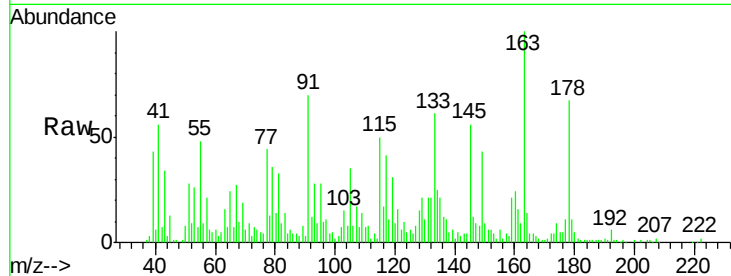




#59
Diethylphthalate
Concen: 4.77 ng
RT: 13.14 min Scan# 1947
Delta R.T. -0.03 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

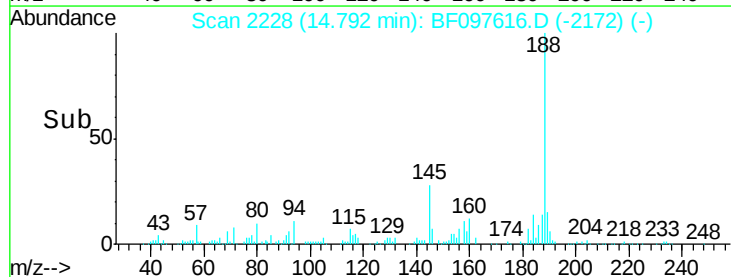
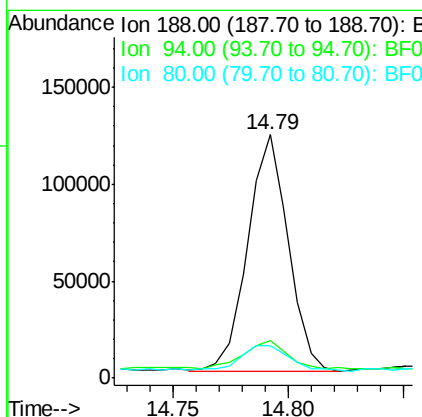
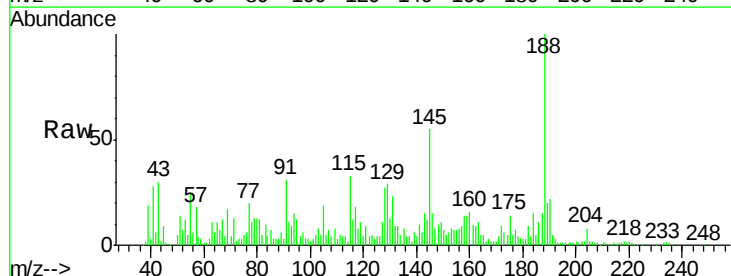
Instrument :
BNA_F
ClientSampleId :
VE-3-1

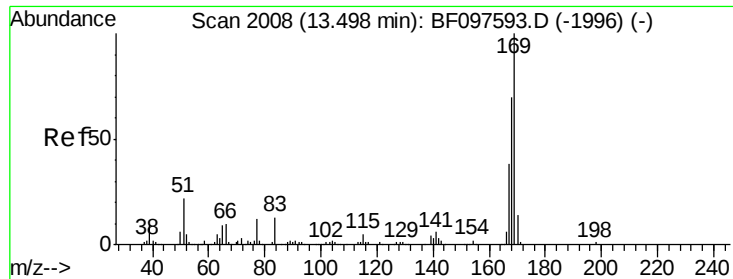
Tot Ion:149 Resp: 42491
Ion Ratio Lower Upper
149 100
177 26.4 16.7 25.1#
150 21.5 10.2 15.2#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.79 min Scan# 2228
Delta R.T. 0.03 min
Lab File: BF097616.D
Acq: 12 Aug 2017 2:47

Tgt Ion:188 Resp: 148515
Ion Ratio Lower Upper
188 100
94 15.2 9.4 14.2#
80 13.3 10.2 15.2





#65

n-Nitrosodiphenylamine

Concen: 4.02 ng

RT: 13.50 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

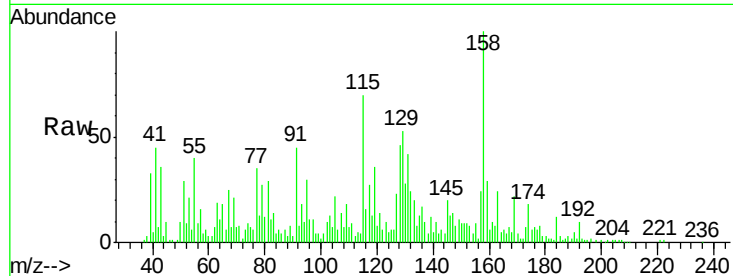
Tot Ion:169 Resp: 22088

Ion Ratio Lower Upper

169 100

168 20.8 53.2 79.8#

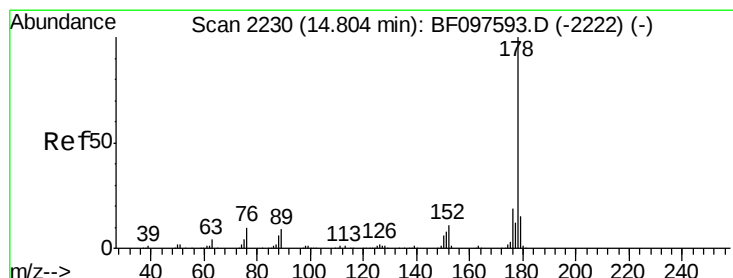
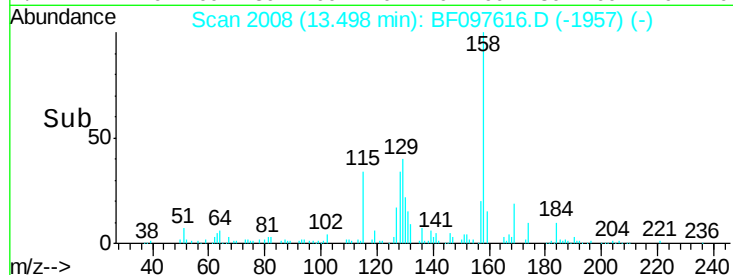
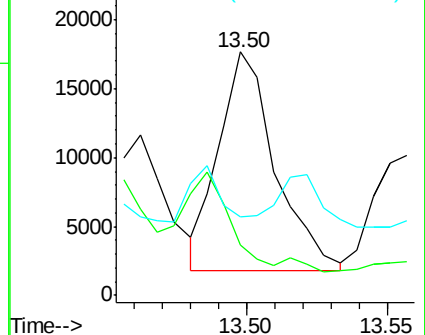
167 32.5 29.5 44.3



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 11.08 ng

RT: 14.83 min Scan# 2234

Delta R.T. 0.02 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

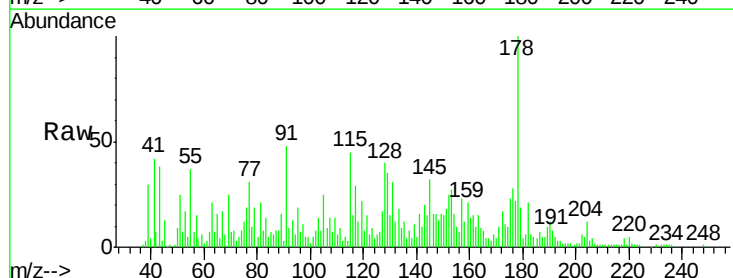
Tgt Ion:178 Resp: 94747

Ion Ratio Lower Upper

178 100

176 28.0 16.2 24.4#

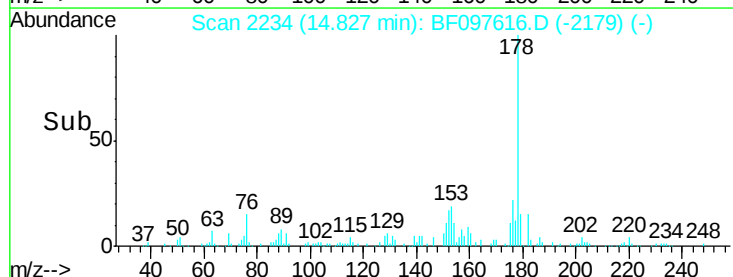
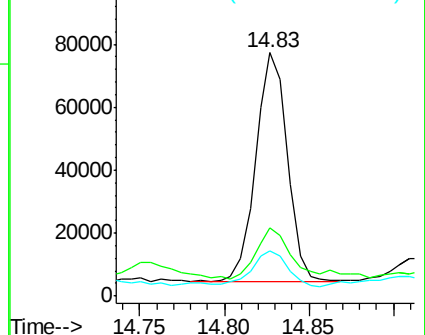
179 18.7 12.6 19.0

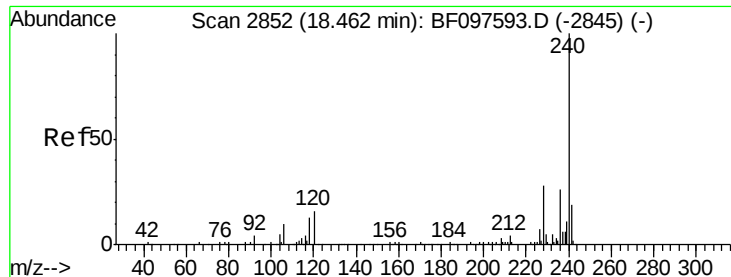


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Chrvsene-d12

Concen: 20.00 ng

RT: 18.50 min Scan# 2858

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA_F

ClientSampleId :

VE-3-1

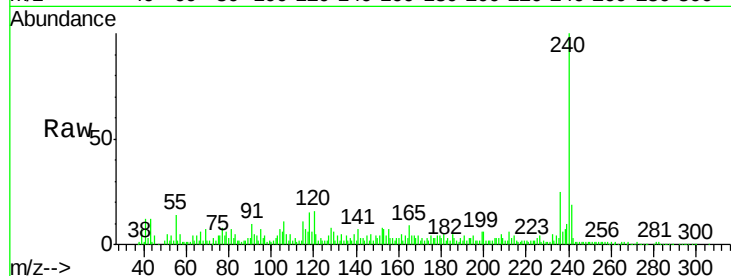
Tot Ion:240 Resp: 179891

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

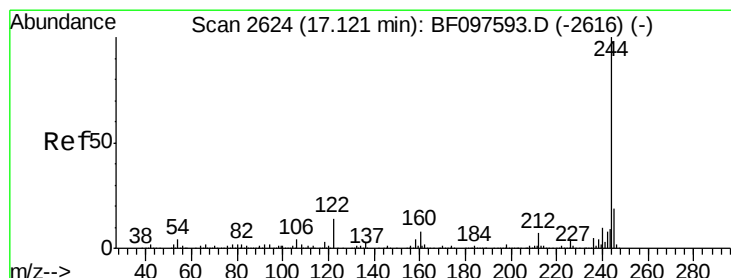
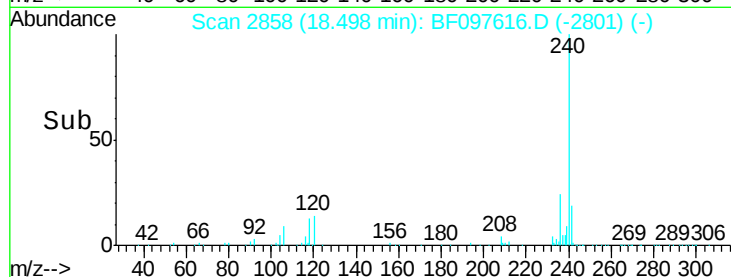
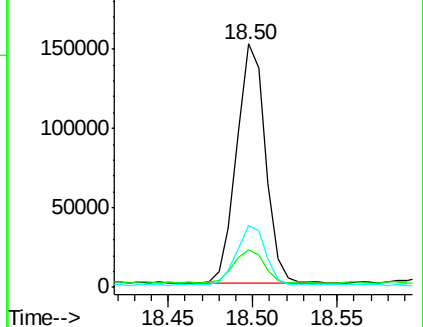
236 25.2 20.5 30.7



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



#78

Terphenyl-d14

Concen: 54.08 ng

RT: 17.16 min Scan# 2630

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

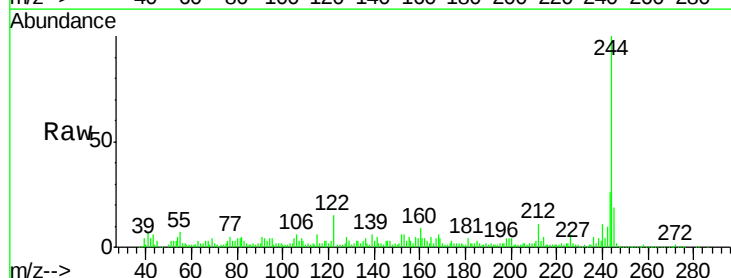
Tgt Ion:244 Resp: 470033

Ion Ratio Lower Upper

244 100

212 10.6 6.0 9.0#

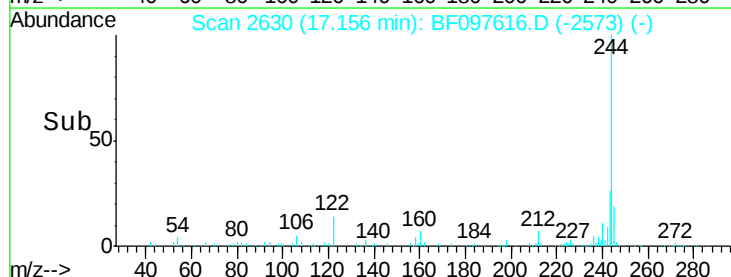
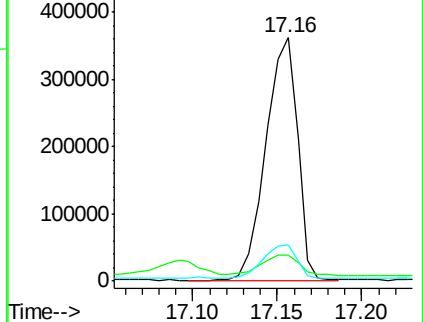
122 15.0 10.3 15.5

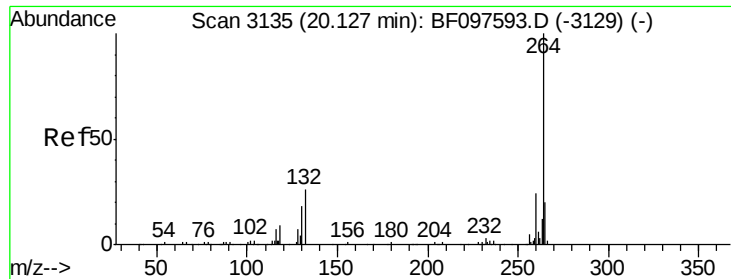


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

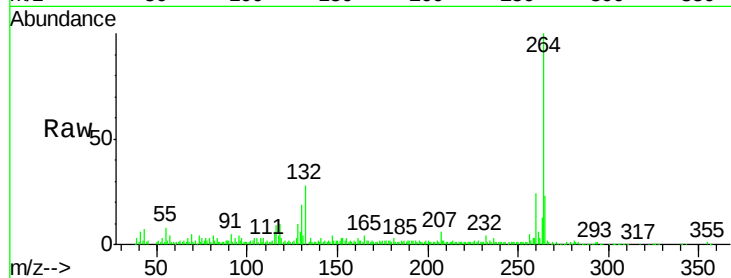




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 20.16 min Scan# 3140
 Delta R.T. 0.03 min
 Lab File: BF097616.D
 Acq: 12 Aug 2017 2:47

Instrument :
 BNA_F
 ClientSampleId :
 VE-3-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	22.9	17.2	25.8



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

