

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062117\
 Data File : BF096109.D
 Acq On : 22 Jun 2017 6:24
 Operator : SJ/MA
 Sample : I3747-04
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 22 07:22:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

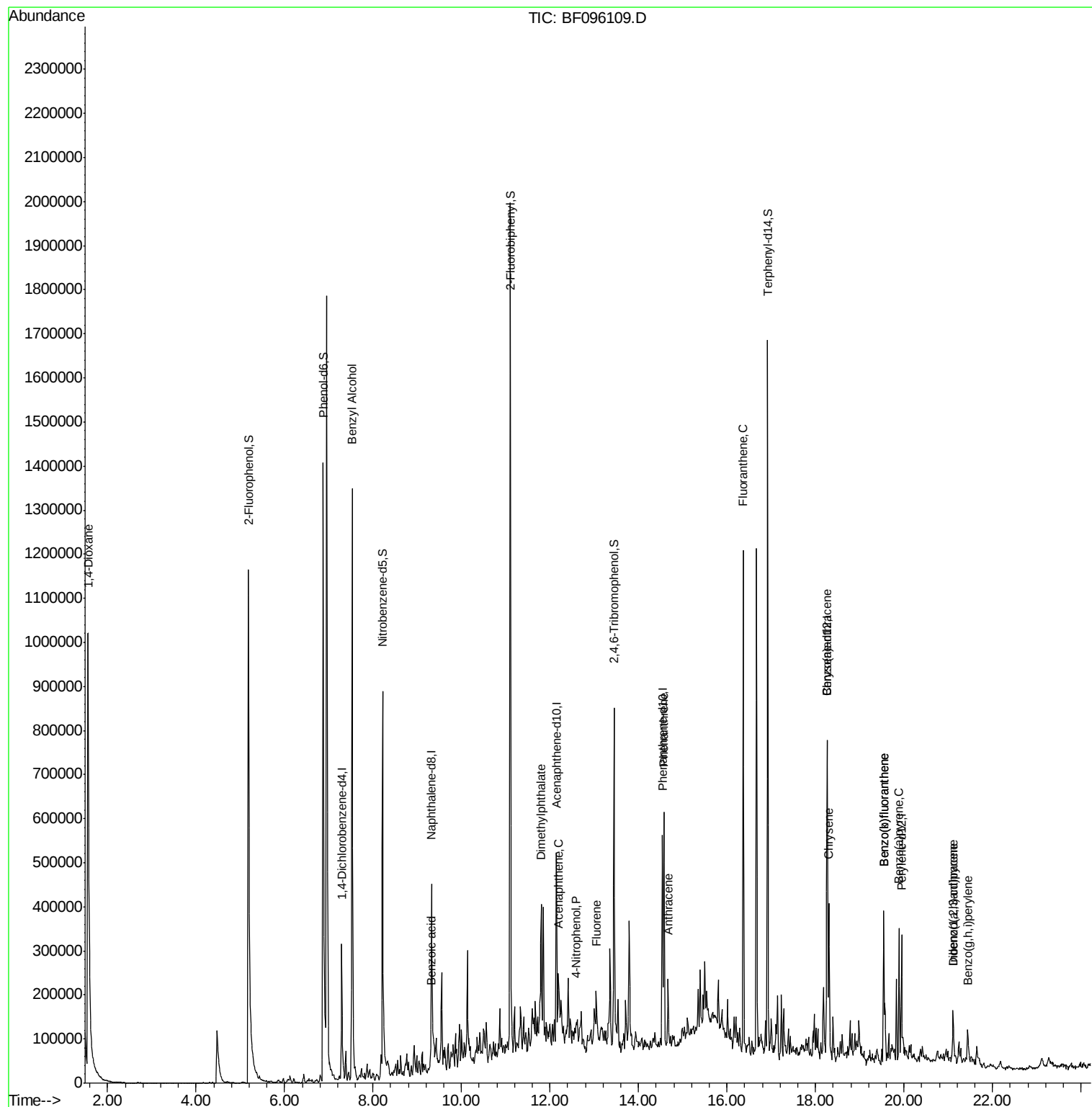
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.29	152	80912	20.00	ng	0.00
21) Naphthalene-d8	9.32	136	311414	20.00	ng	0.00
38) Acenaphthene-d10	12.15	164	124601	20.00	ng	0.00
63) Phenanthrene-d10	14.54	188	181215	20.00	ng	0.00
75) Chrysene-d12	18.27	240	171796	20.00	ng	0.00
86) Perylene-d12	19.94	264	119012	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	796498	156.86	ng	0.00
7) Phenol-d6	6.87	99	997182	164.04	ng	0.00
23) Nitrobenzene-d5	8.22	82	517738	103.25	ng	0.00
41) 2,4,6-Tribromophenol	13.44	330	129847	117.78	ng	0.00
44) 2-Fluorobiphenyl	11.10	172	846443	94.53	ng	0.00
78) Terphenyl-d14	16.92	244	637765	92.13	ng	0.00
Target Compounds						
2) 1,4-Dioxane	1.56	88	57469	23.79	ng	# 21
15) Benzyl Alcohol	7.53	79	9320	2.23	ng	# 33
32) Benzoic acid	9.30	122	2229	5.85	ng	# 47
49) Dimethylphthalate	11.80	163	145777	15.41	ng	99
51) Acenaphthene	12.20	154	32658	4.12	ng	98
55) 4-Nitrophenol	12.59	139	339	4.85	ng	# 1
57) Fluorene	13.04	166	28458	2.93	ng	# 98
70) Phenanthrene	14.57	178	292057	27.93	ng	98
71) Anthracene	14.67	178	98142	8.99	ng	95
74) Fluoranthene	16.37	202	590437	57.05	ng	99
80) Benzo(a)anthracene	18.26	228	226918	22.72	ng	98
82) Chrysene	18.30	228	171225	17.15	ng	98
85) Indeno(1,2,3-cd)pyrene	21.11	276	67529	7.91	ng	# 90
87) Benzo(b)fluoranthene	19.54	252	230236	30.90	ng	# 96
88) Benzo(k)fluoranthene	19.54	252	230236	32.32	ng	98
89) Benzo(a)pyrene	19.89	252	132472	19.34	ng	96
90) Dibenzo(a,h)anthracene	21.10	278	17349	2.99	ng	# 76
91) Benzo(g,h,i)perylene	21.44	276	56210	9.49	ng	96

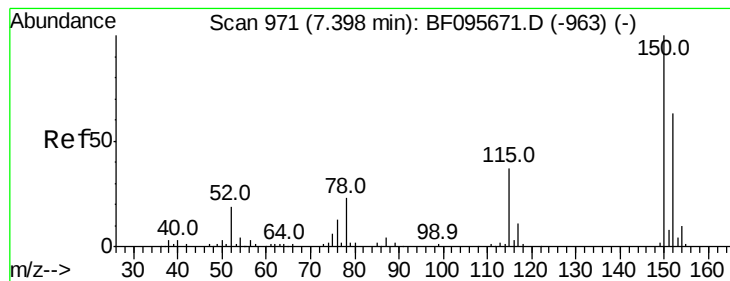
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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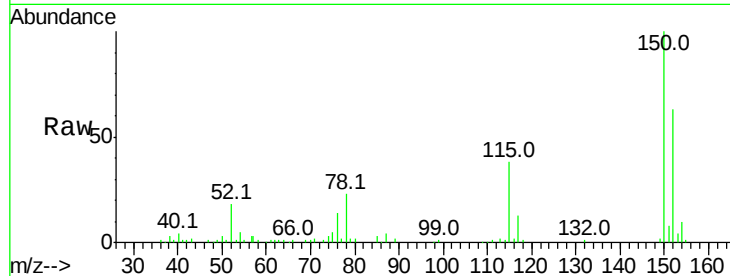


#1

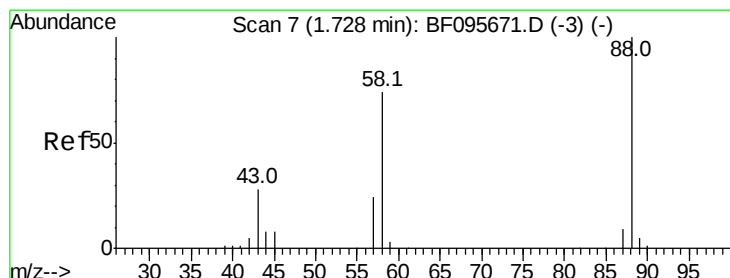
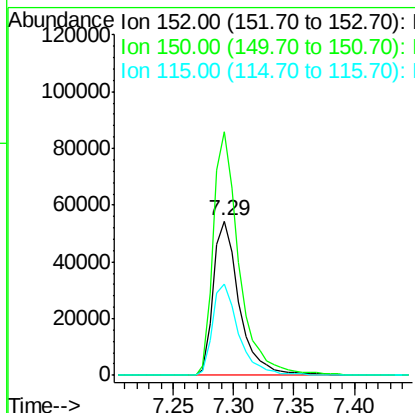
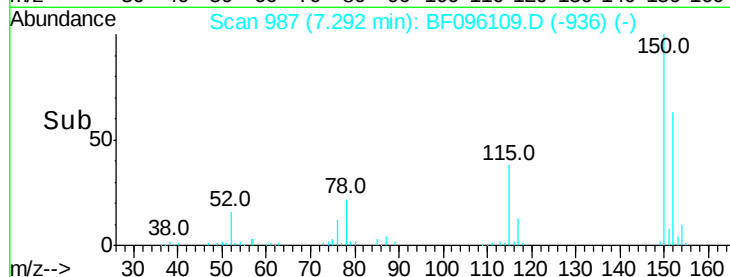
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.29 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.2	189.2
115	59.3	52.2	78.2



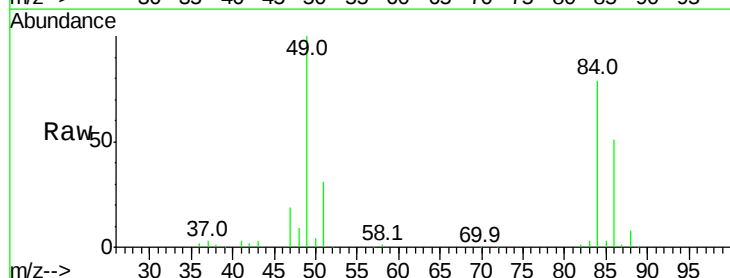
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



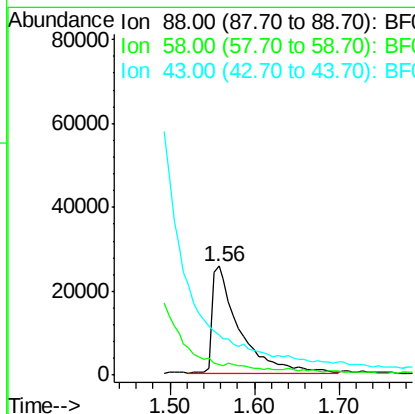
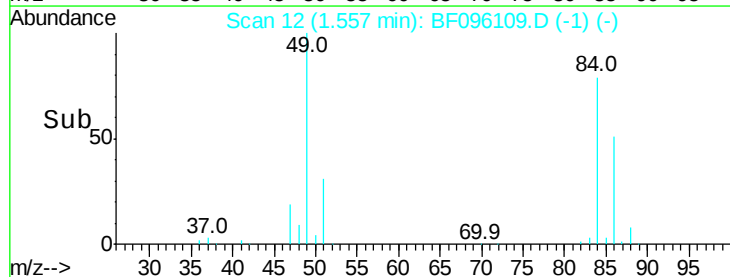
#2

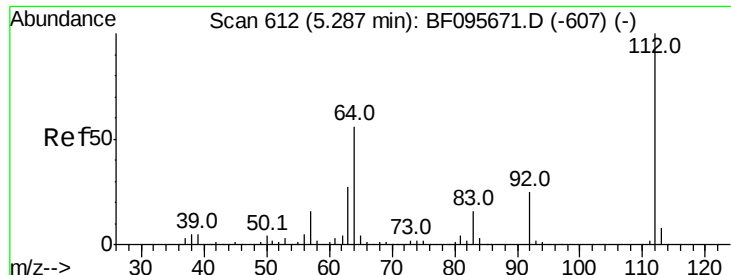
1,4-Dioxane
Concen: 23.79 ng
RT: 1.56 min Scan# 12
Delta R.T. -0.05 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.4	92.0#
43	0.0	23.4	35.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 156.86 ng

RT: 5.19 min Scan# 629

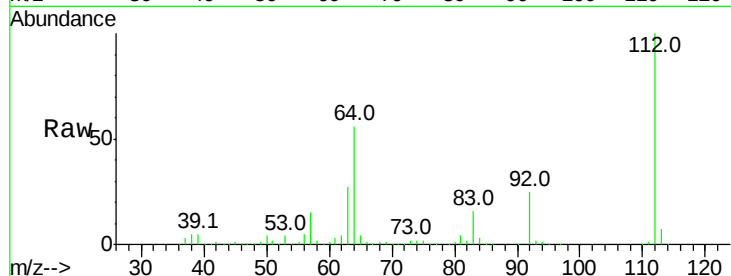
Delta R.T. 0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :
BNA_F
ClientSampled :

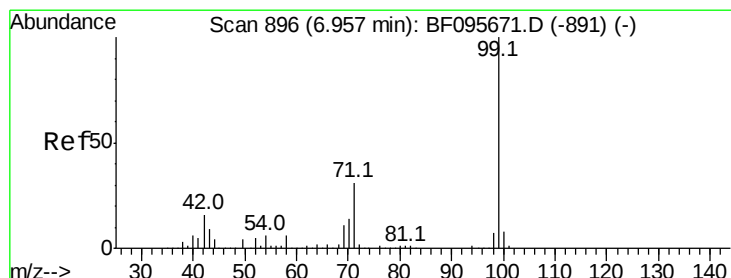
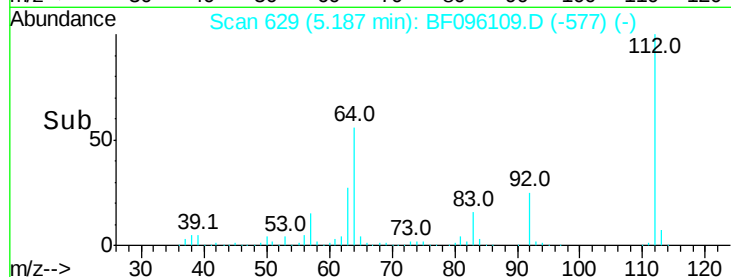
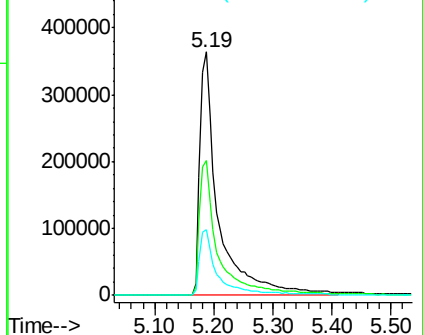
Tot Ion:	112	Resp:	796498
Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.0	69.0
63	27.0	23.4	35.0



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: 164.04 ng

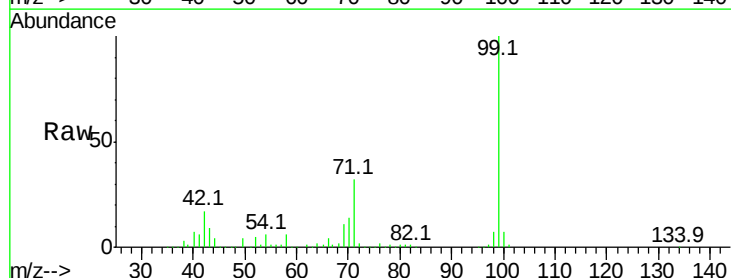
RT: 6.87 min Scan# 915

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

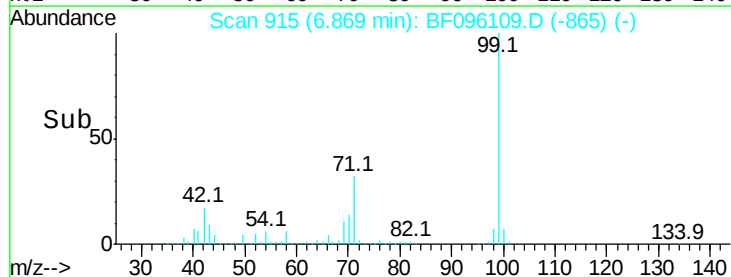
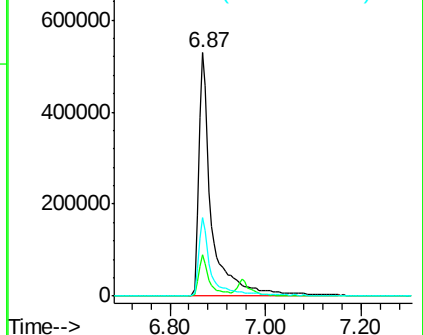
Tgt Ion:	99	Resp:	997182
Ion	Ratio	Lower	Upper
99	100		
42	17.0	13.5	20.3
71	32.2	24.5	36.7

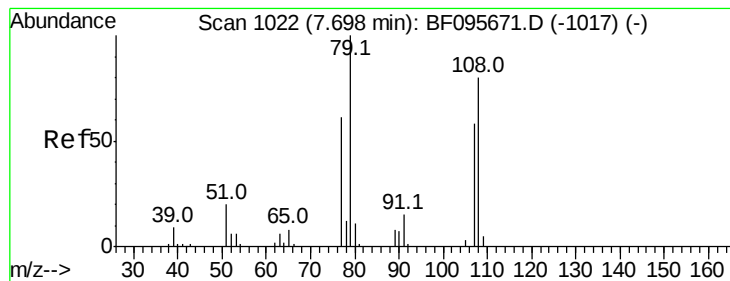


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#15

Benzyl Alcohol

Concen: 2.23 ng

RT: 7.53 min Scan# 1027

Delta R.T. -0.08 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

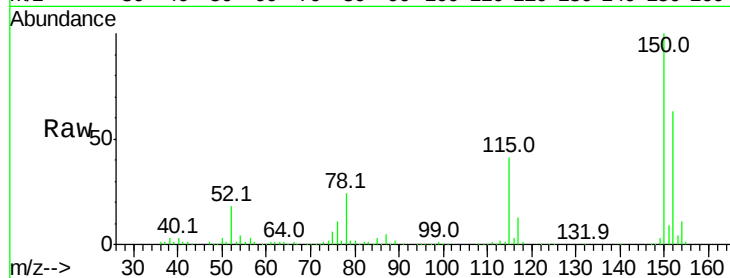
Tot Ion: 79 Resp: 9320

Ion Ratio Lower Upper

79 100

108 24.0 63.4 95.0#

77 116.8 49.2 73.8#

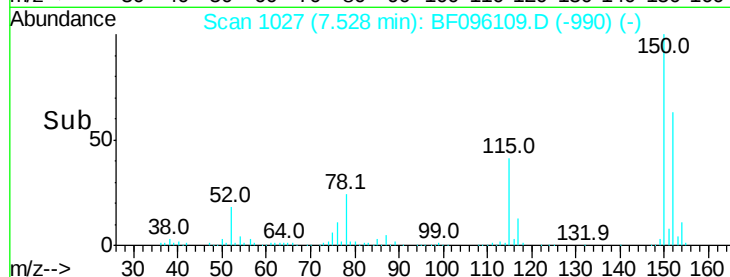


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Time-->



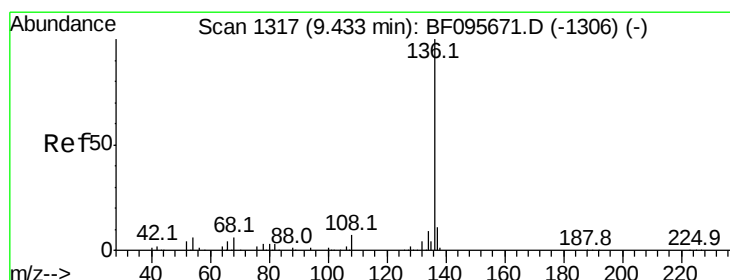
Abundance

Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.32 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Tgt Ion: 136 Resp: 311414

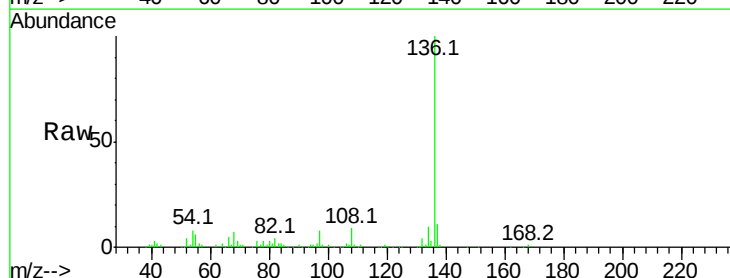
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 7.6 4.9 7.3#

68 6.6 4.1 6.1#



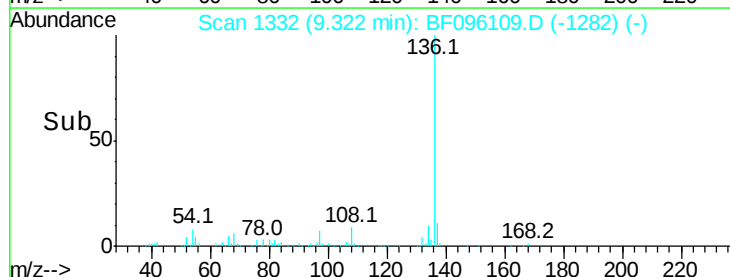
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

Time-->



Abundance

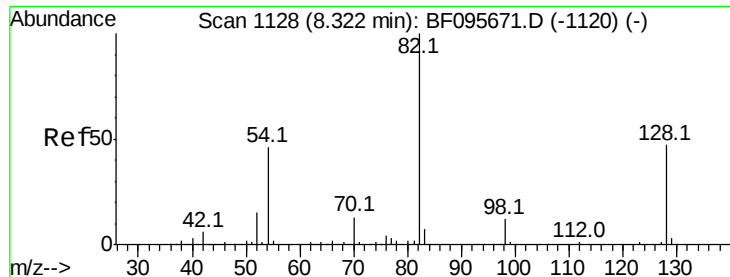
Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

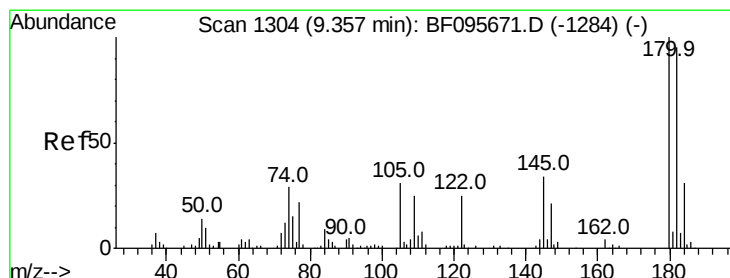
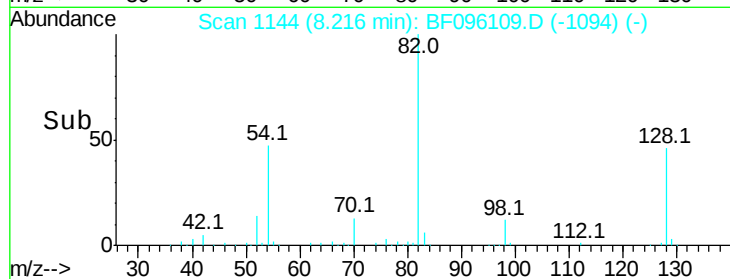
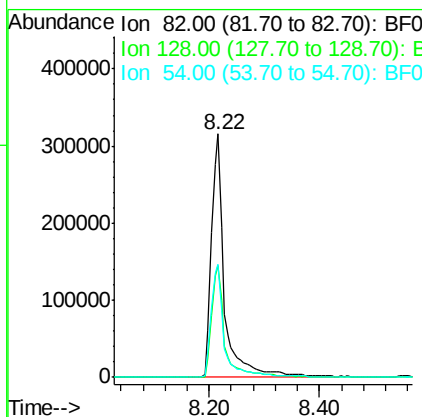
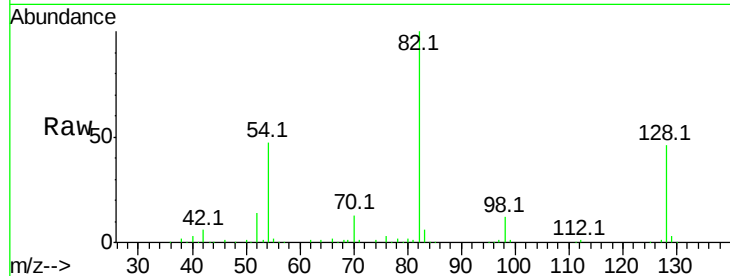
Time-->



#23
 Nitrobenzene-d5
 Concen: 103.25 ng
 RT: 8.22 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

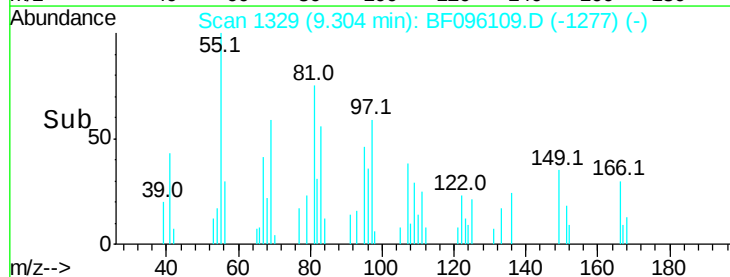
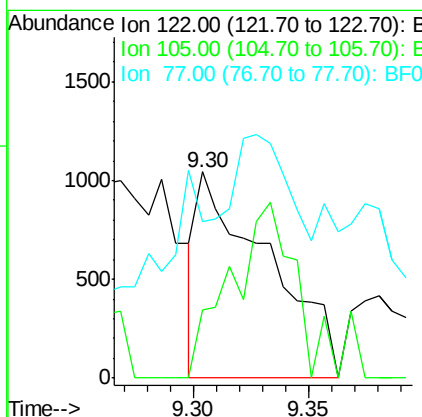
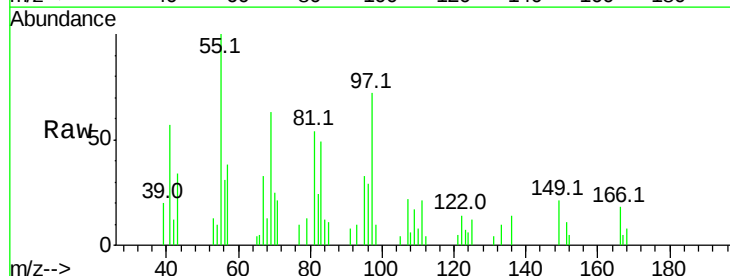
Instrument :
 BNA_F
 ClientSampleId :

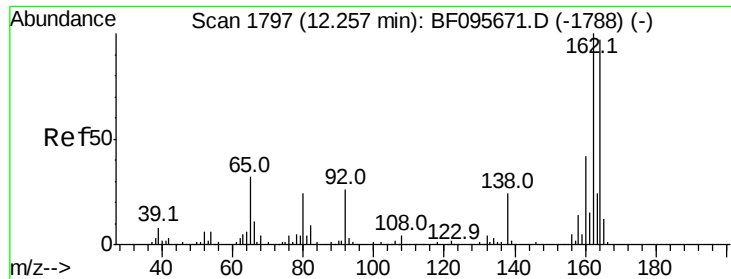
Tot Ion: 82 Resp: 517738
 Ion Ratio Lower Upper
 82 100
 128 46.2 34.0 51.0
 54 46.7 42.2 63.2



#32
 Benzoic acid
 Concen: 5.85 ng
 RT: 9.30 min Scan# 1329
 Delta R.T. 0.01 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

Tgt Ion:122 Resp: 2229
 Ion Ratio Lower Upper
 122 100
 105 33.1 103.3 143.3#
 77 75.8 73.7 113.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.15 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

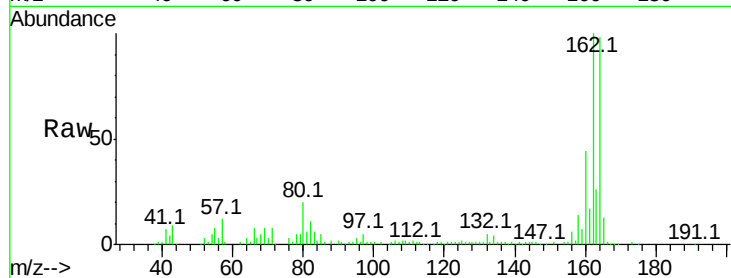
Tot Ion:164 Resp: 124601

Ion Ratio Lower Upper

164 100

162 102.4 82.6 123.8

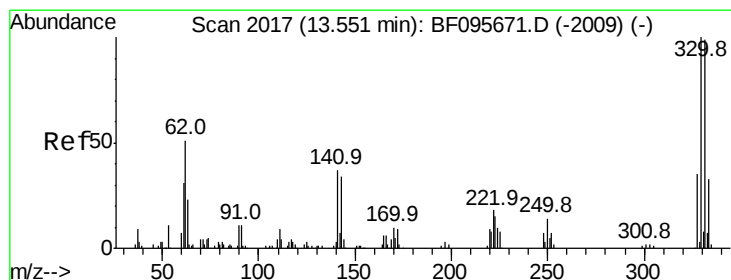
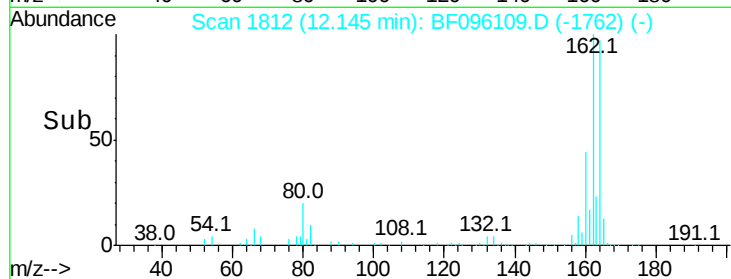
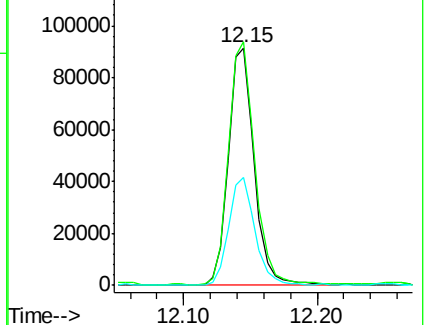
160 45.2 36.2 54.2



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: 117.78 ng

RT: 13.44 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

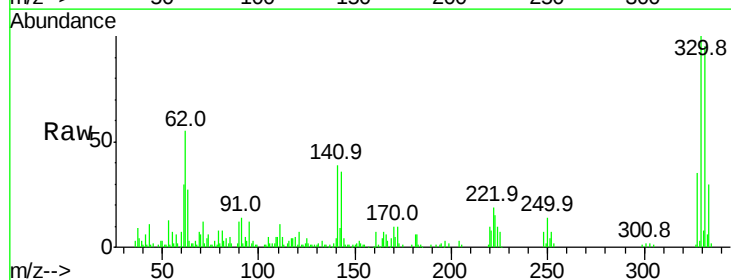
Tgt Ion:330 Resp: 129847

Ion Ratio Lower Upper

330 100

332 95.7 76.6 115.0

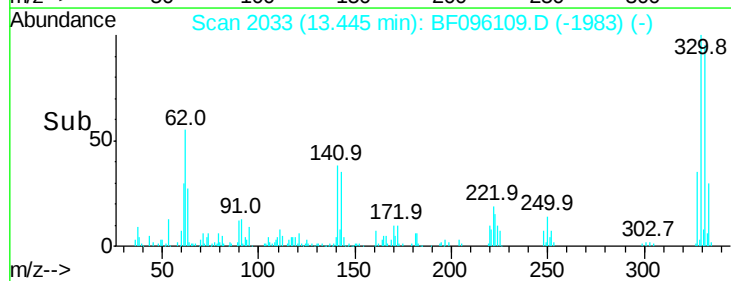
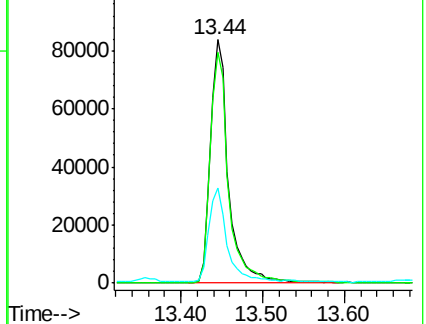
141 38.3 31.4 47.2

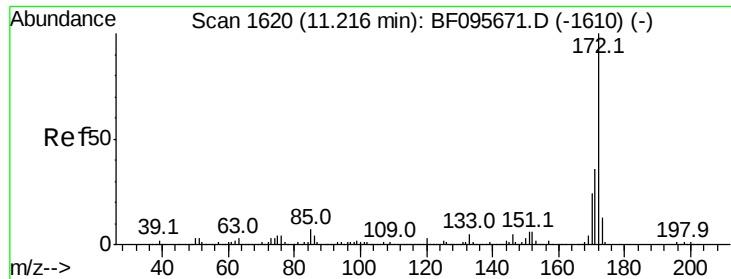


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

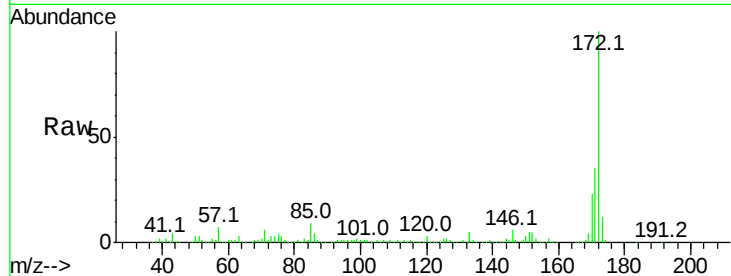




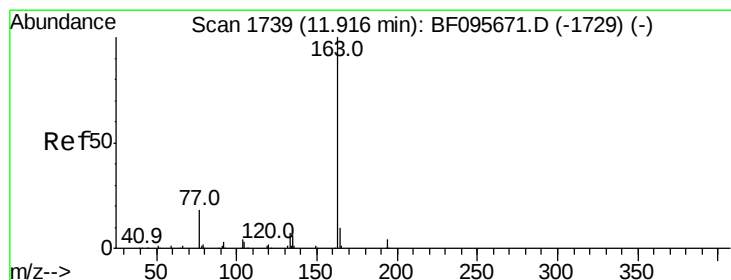
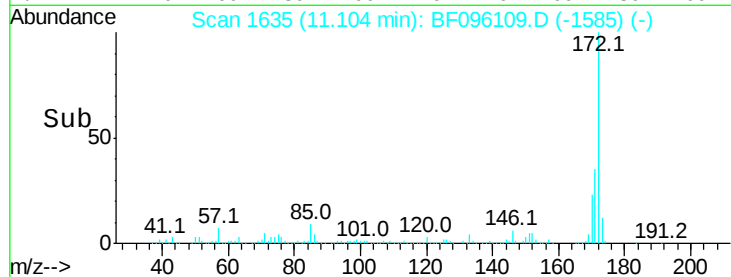
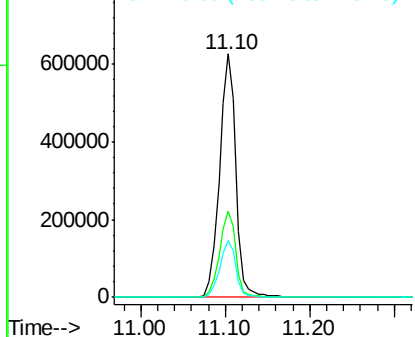
#44
2-Fluorobiphenyl
Concen: 94.53 ng
RT: 11.10 min Scan# 1635
Delta R.T. -0.01 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 846443
Ion Ratio Lower Upper
172 100
171 35.4 29.6 44.4
170 23.3 19.8 29.8

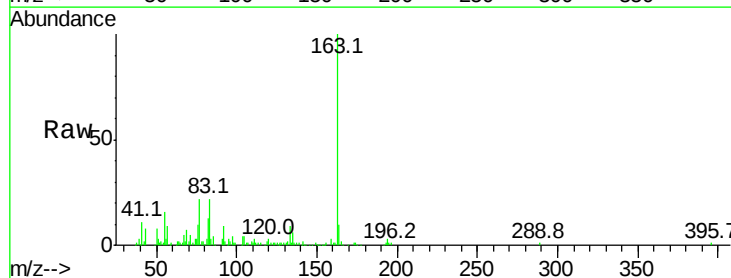


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

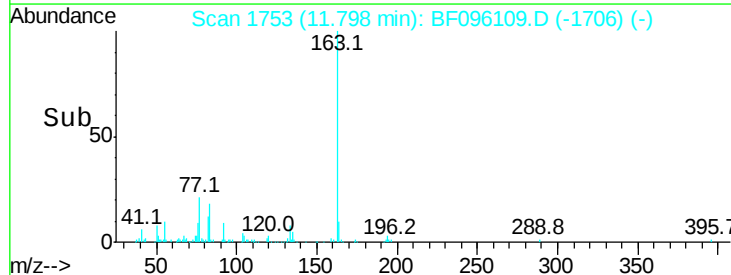
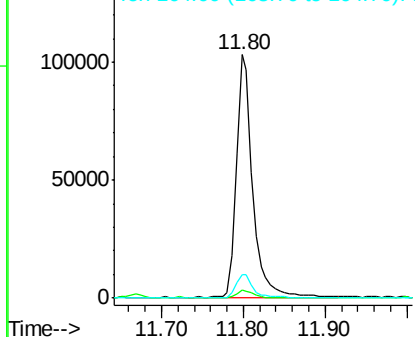


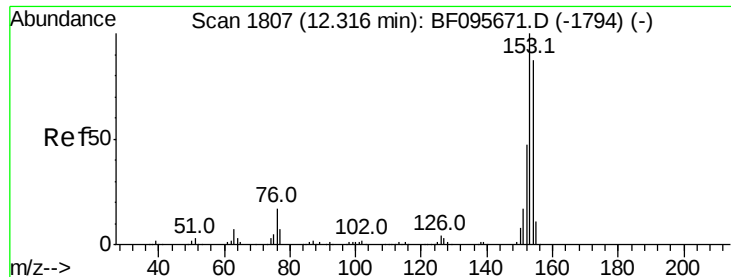
#49
Dimethylphthalate
Concen: 15.41 ng
RT: 11.80 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Tgt Ion:163 Resp: 145777
Ion Ratio Lower Upper
163 100
194 3.2 2.6 4.0
164 9.8 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





#51

Acenaphthene

Concen: 4.12 ng

RT: 12.20 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

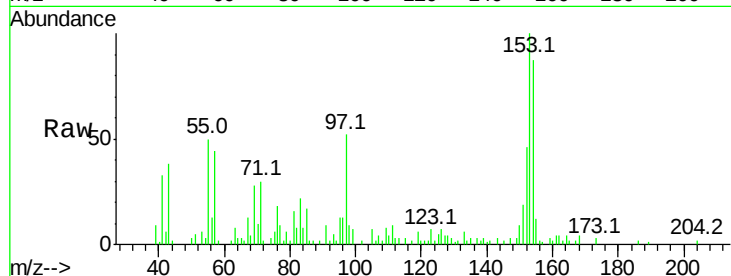
Tot Ion:154 Resp: 32658

Ion Ratio Lower Upper

154 100

153 114.6 90.5 135.7

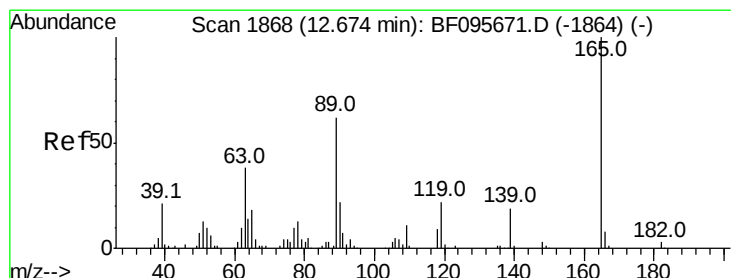
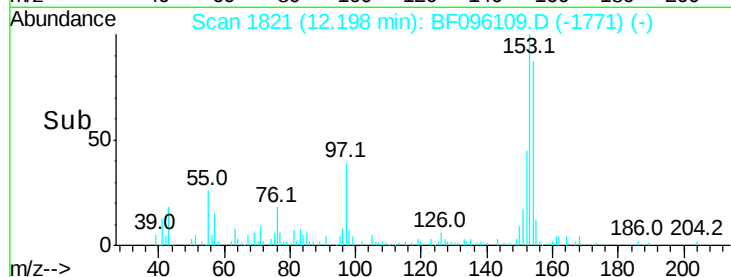
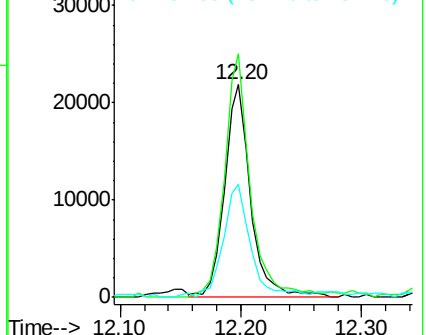
152 53.1 43.6 65.4



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



#55

4-Nitrophenol

Concen: 4.85 ng

RT: 12.59 min Scan# 1888

Delta R.T. -0.04 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

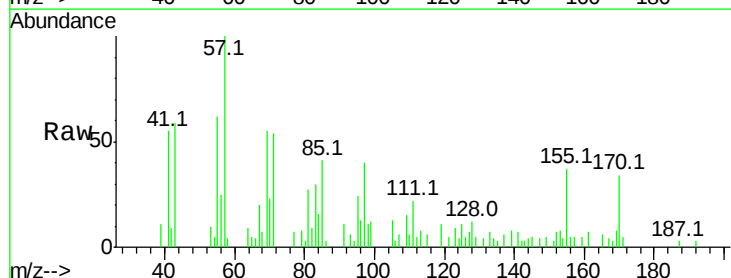
Tgt Ion:139 Resp: 339

Ion Ratio Lower Upper

139 100

109 195.9 34.1 74.1#

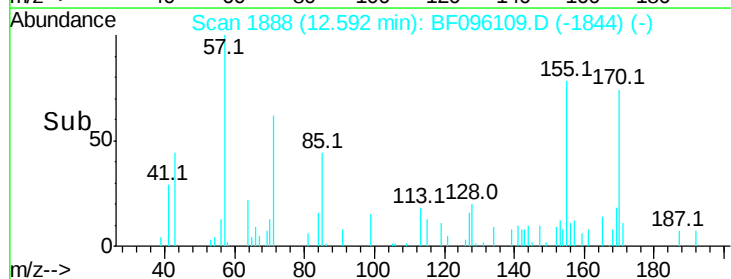
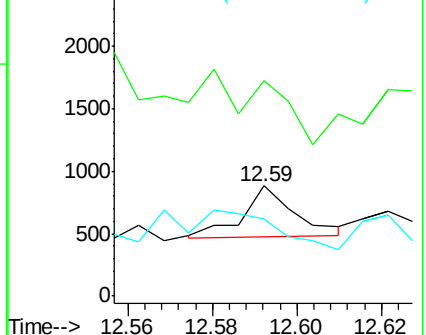
65 70.1 31.4 71.4

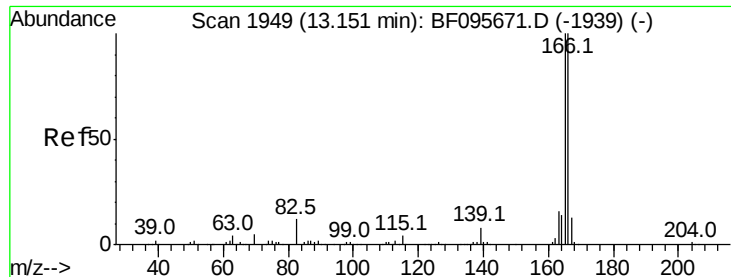


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

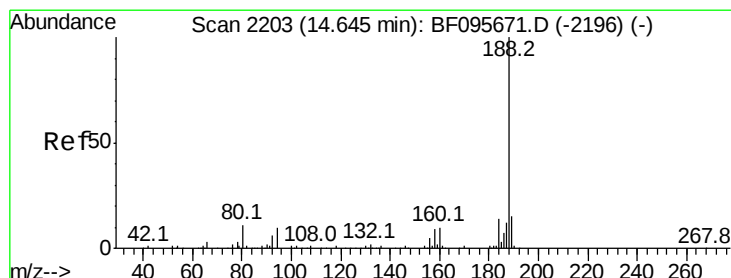
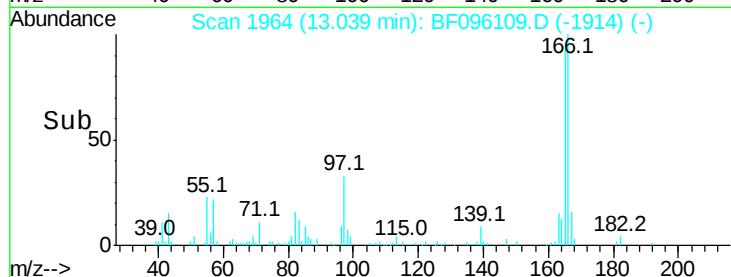
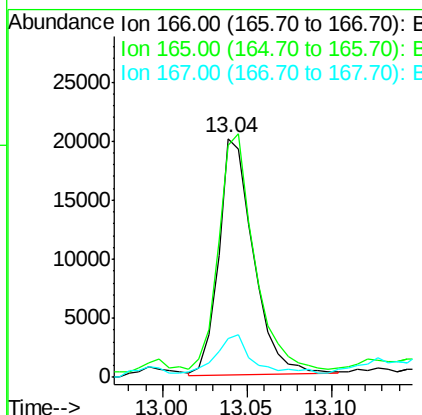
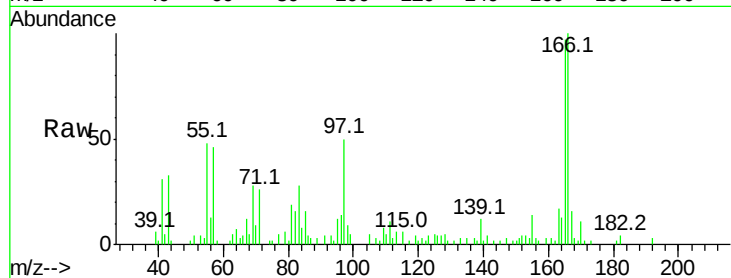




#57
 Fluorene
 Concen: 2.93 ng
 RT: 13.04 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

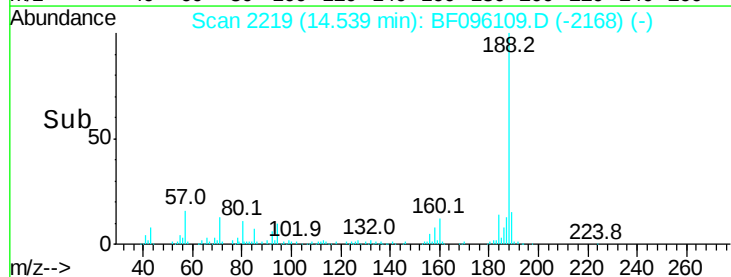
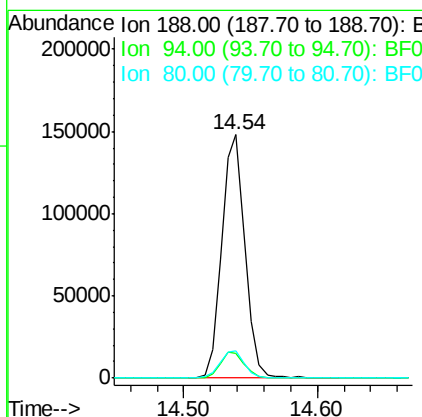
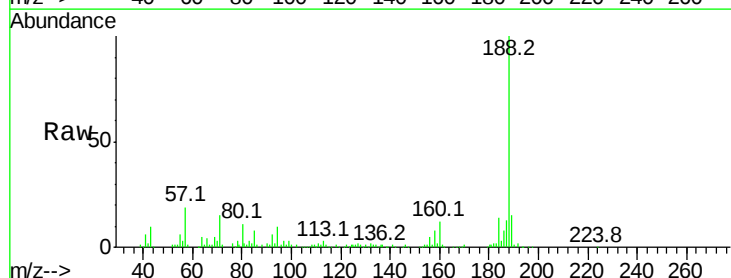
Instrument :
 BNA_F
 ClientSampleId :

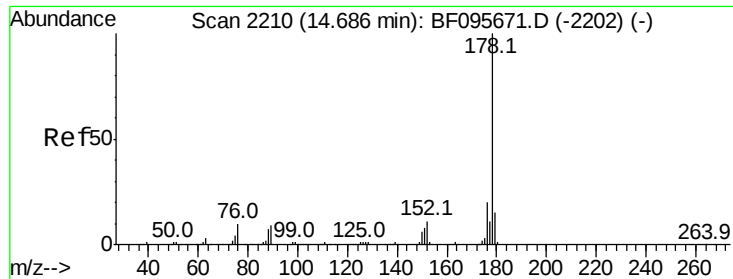
Tot Ion	Ratio	Lower	Upper
166	100		
165	97.1	78.8	118.2
167	16.4	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.54 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	9.4	14.2
80	11.2	10.2	15.2

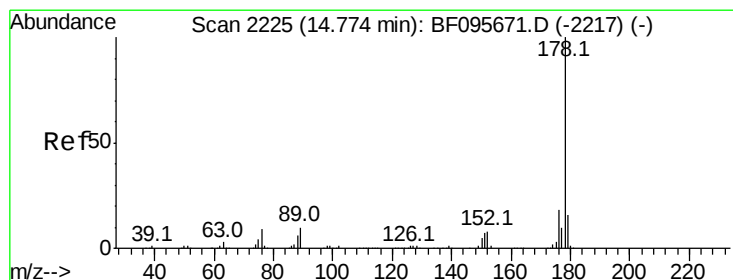
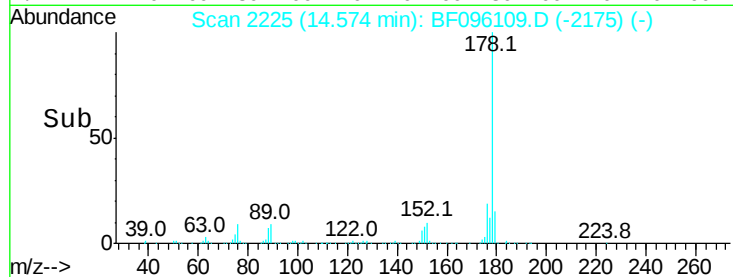
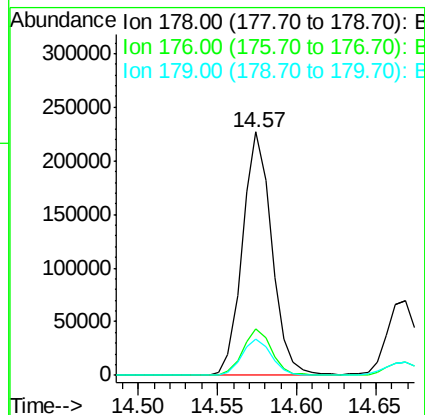
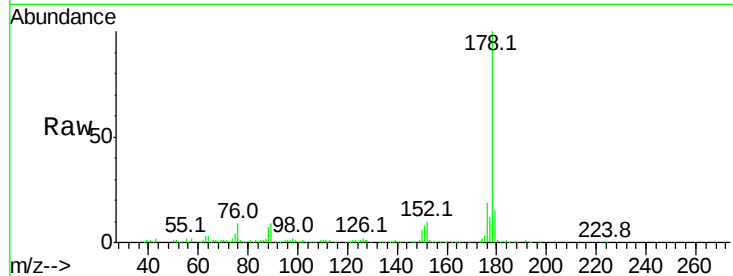




#70
Phenanthrene
Concen: 27.93 ng
RT: 14.57 min Scan# 2225
Delta R.T. -0.01 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

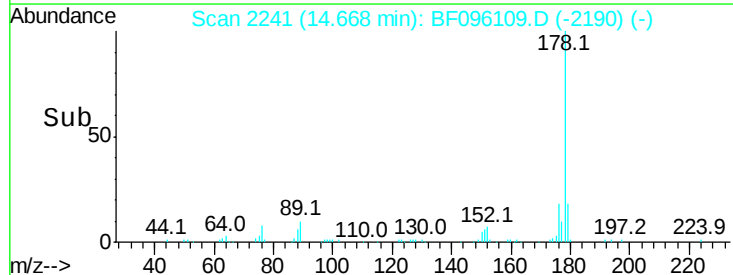
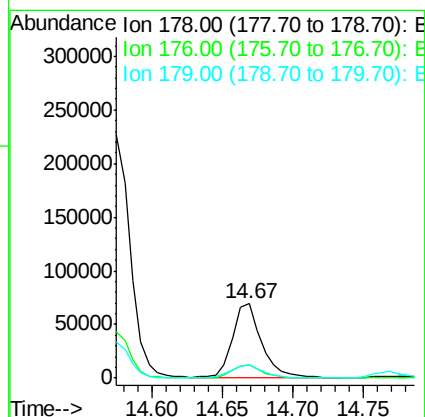
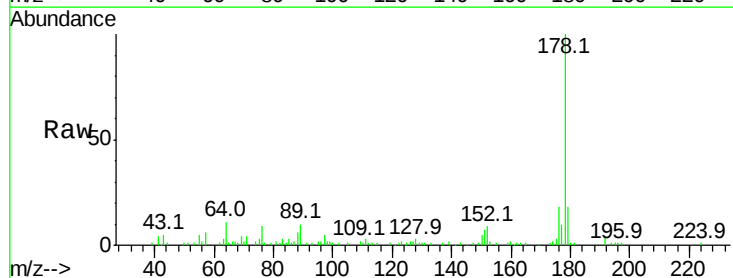
Instrument :
BNA_F
ClientSampleId :

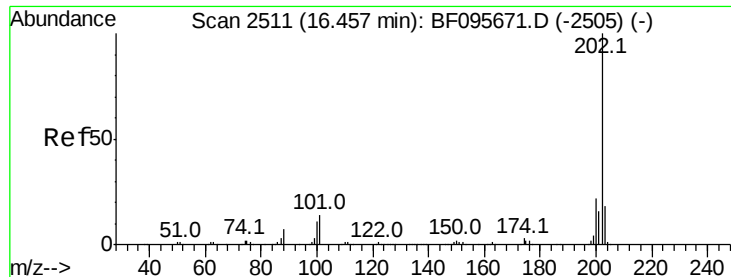
Tot Ion:178 Resp: 292057
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 14.8 12.6 19.0



#71
Anthracene
Concen: 8.99 ng
RT: 14.67 min Scan# 2241
Delta R.T. 0.00 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Tgt Ion:178 Resp: 98142
Ion Ratio Lower Upper
178 100
176 17.8 15.8 23.8
179 18.2 12.7 19.1





#74

Fluoranthene

Concen: 57.05 ng

RT: 16.37 min Scan# 2530

Delta R.T. 0.00 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

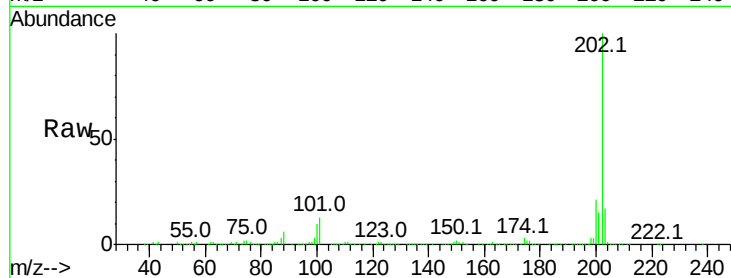
Tot Ion:202 Resp: 590437

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

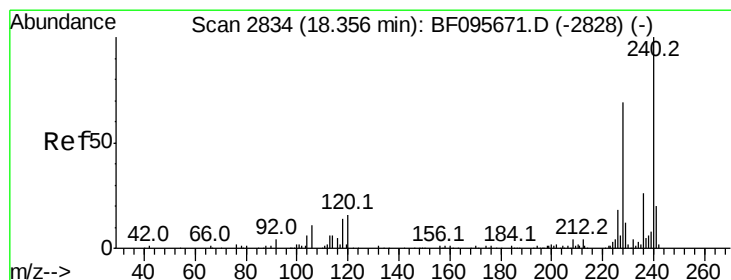
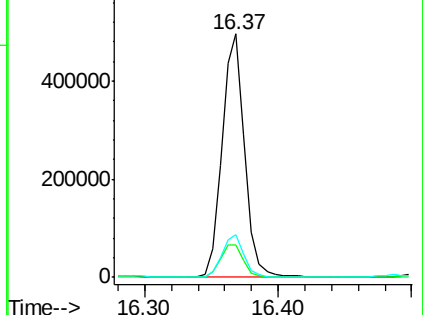
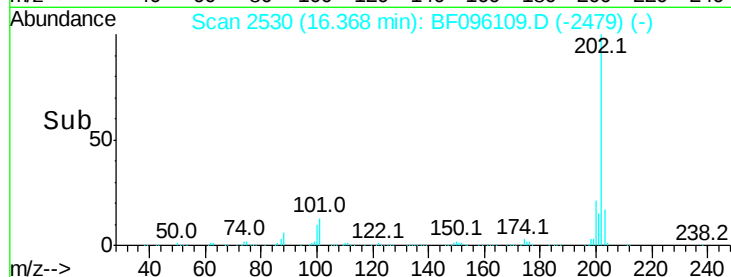
203 17.3 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.27 min Scan# 2853

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

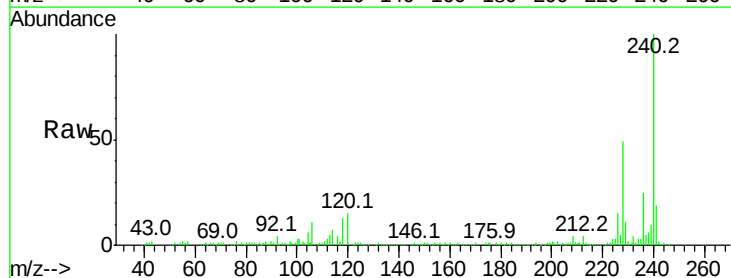
Tgt Ion:240 Resp: 171796

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

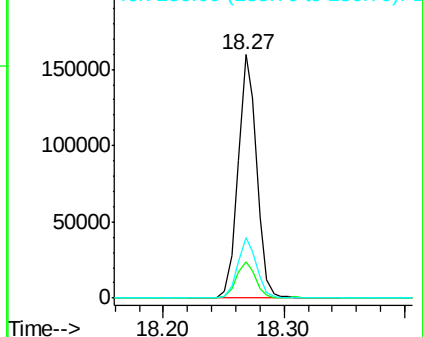
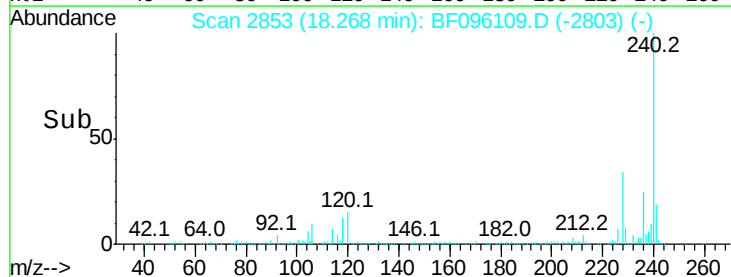
236 25.0 20.5 30.7

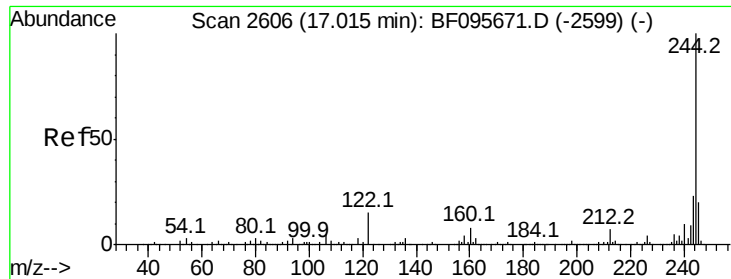


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

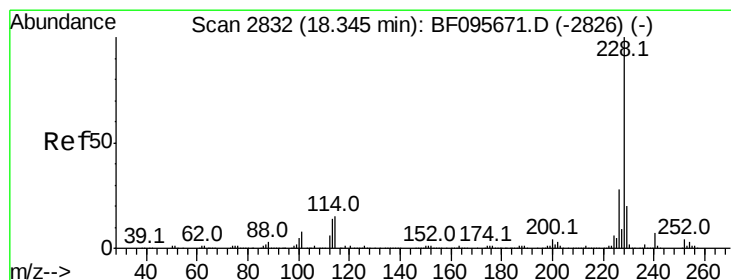
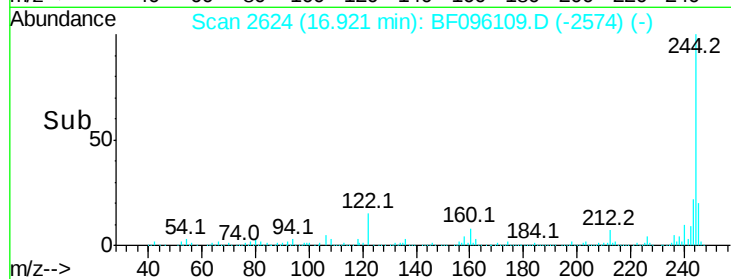
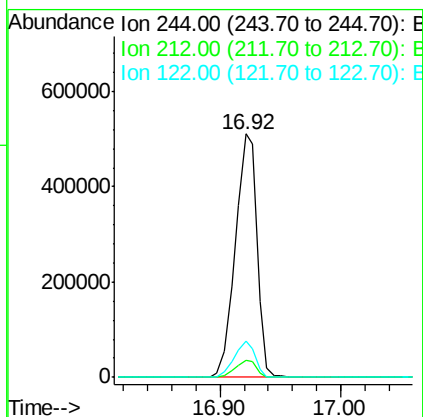
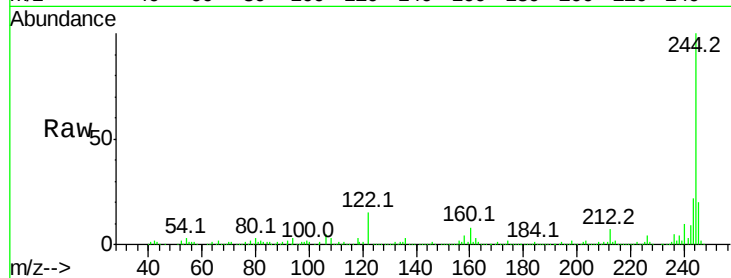




#78
 Terphenyl-d14
 Concen: 92.13 ng
 RT: 16.92 min Scan# 2624
 Delta R.T. -0.01 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

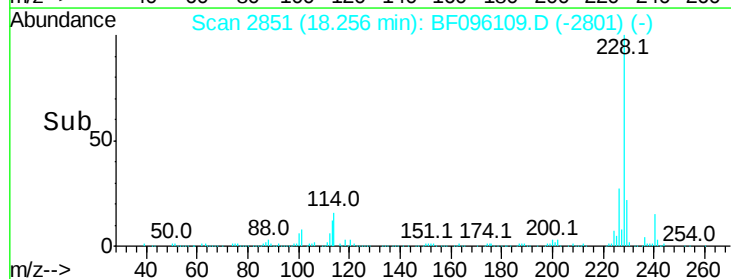
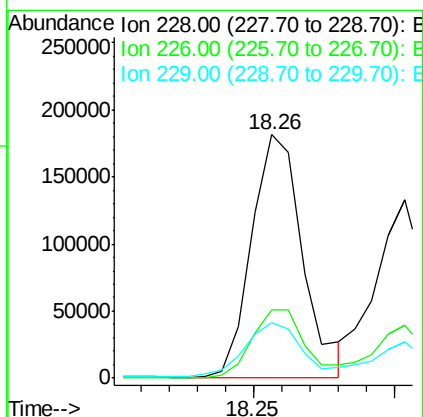
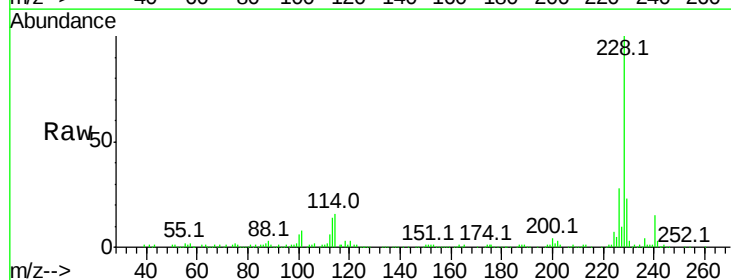
Instrument :
 BNA_F
 ClientSampleId :

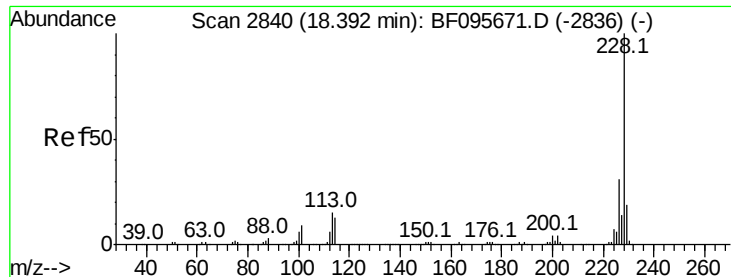
Tot Ion:244 Resp: 637765
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 15.0 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 22.72 ng
 RT: 18.26 min Scan# 2851
 Delta R.T. -0.01 min
 Lab File: BF096109.D
 Acq: 22 Jun 2017 6:24

Tgt Ion:228 Resp: 226918
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.6 33.8
 229 23.0 16.3 24.5





#82

Chrysene

Concen: 17.15 ng

RT: 18.30 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

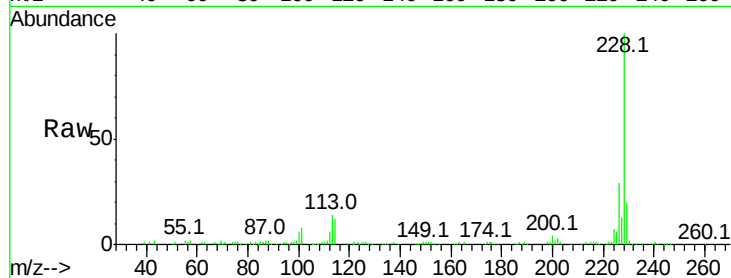
Tot Ion:228 Resp: 171225

Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

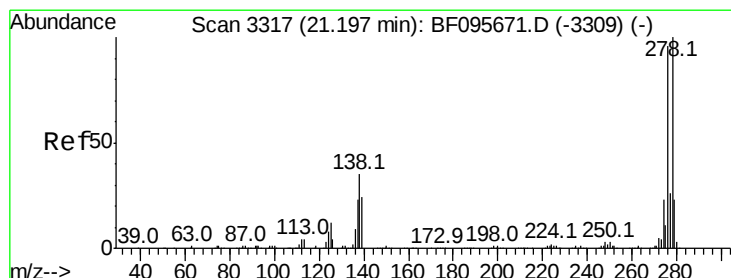
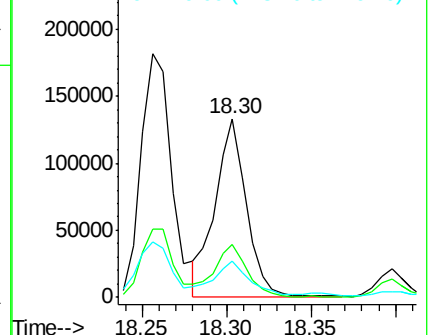
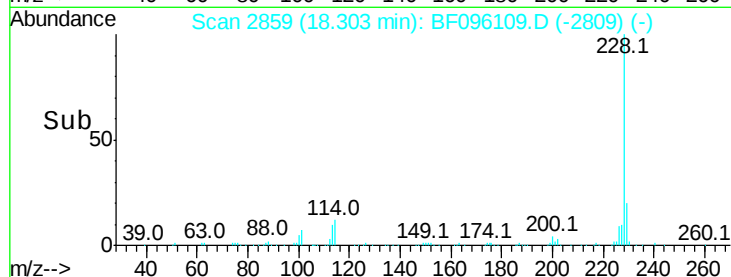
229 20.1 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.91 ng

RT: 21.11 min Scan# 3336

Delta R.T. 0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

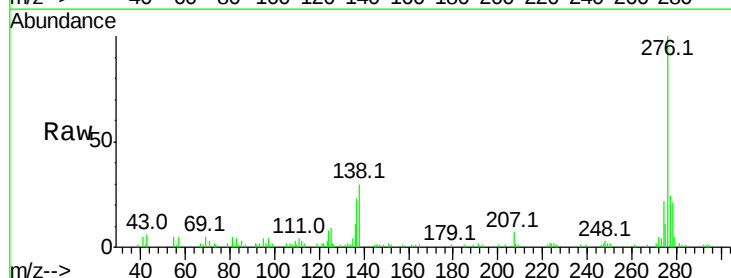
Tgt Ion:276 Resp: 67529

Ion Ratio Lower Upper

276 100

138 26.8 27.8 41.6#

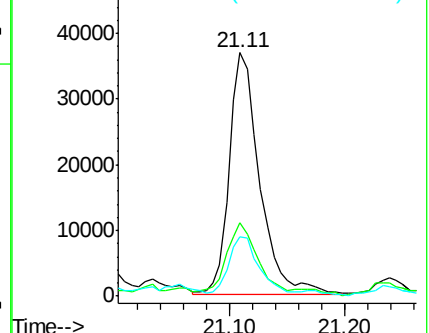
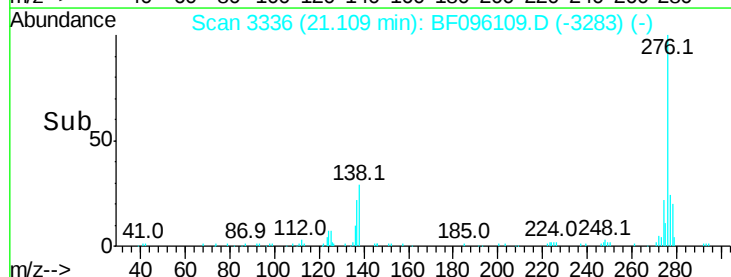
277 22.7 20.2 30.4

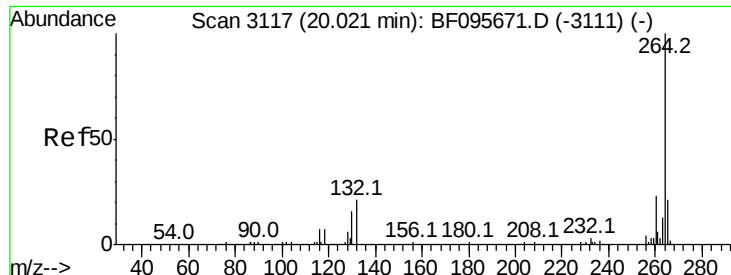


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

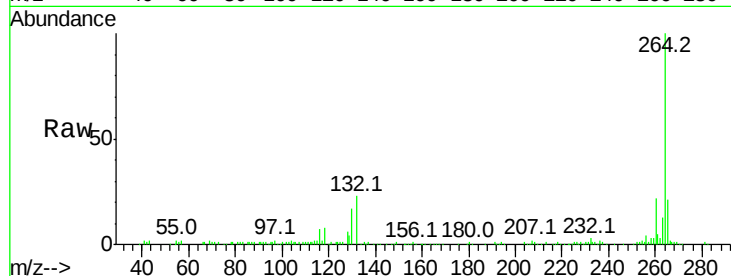




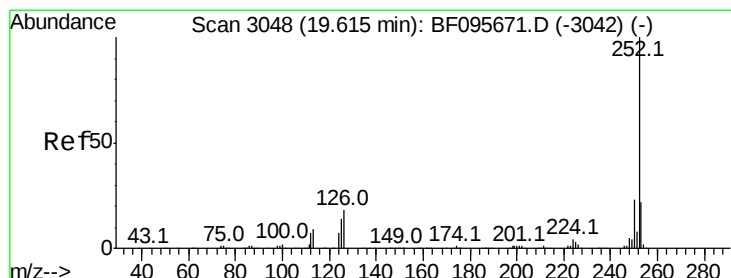
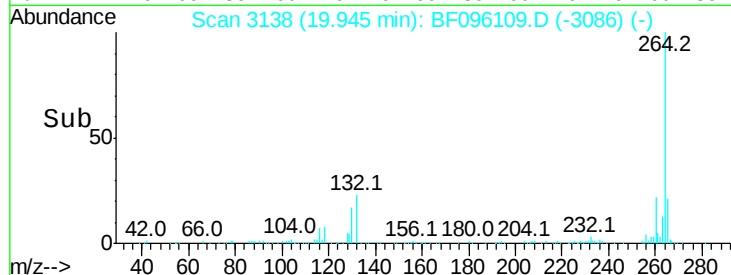
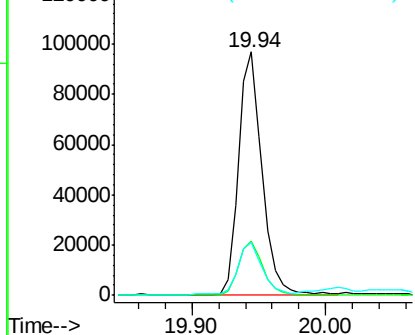
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3138
Delta R.T. 0.01 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 119012
Ion Ratio Lower Upper
264 100
260 22.4 19.5 29.3
265 21.5 17.2 25.8

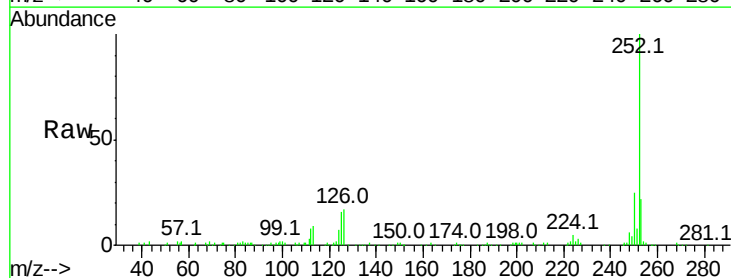


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

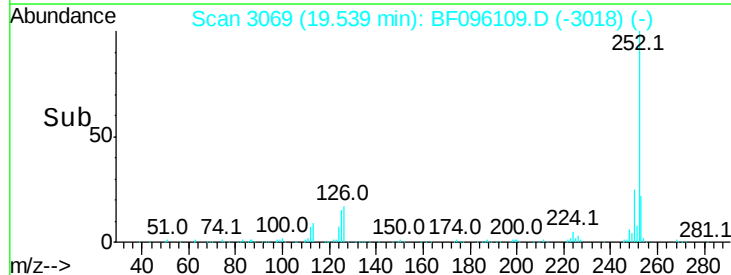
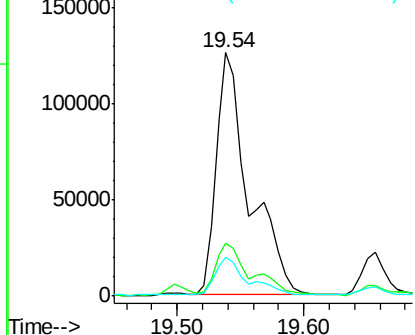


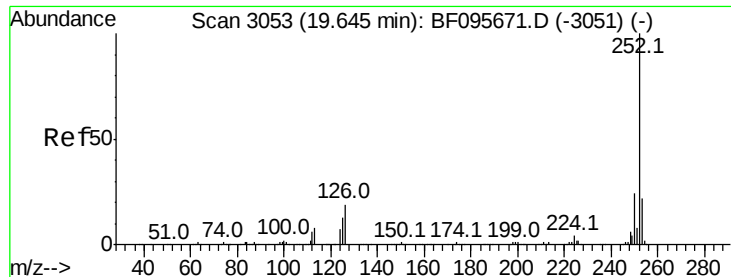
#87
Benzo(b)fluoranthene
Concen: 30.90 ng
RT: 19.54 min Scan# 3069
Delta R.T. 0.00 min
Lab File: BF096109.D
Acq: 22 Jun 2017 6:24

Tgt Ion:252 Resp: 230236
Ion Ratio Lower Upper
252 100
253 21.9 18.1 27.1
125 16.0 9.8 14.8#



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





#88

Benzo(k)fluoranthene

Concen: 32.32 ng

RT: 19.54 min Scan# 3069

Delta R.T. -0.03 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

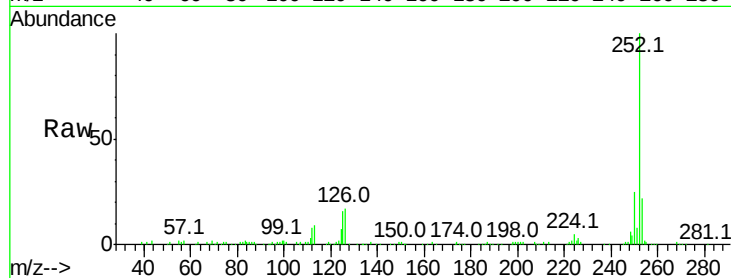
Tot Ion:252 Resp: 230236

Ion Ratio Lower Upper

252 100

253 21.9 18.4 27.6

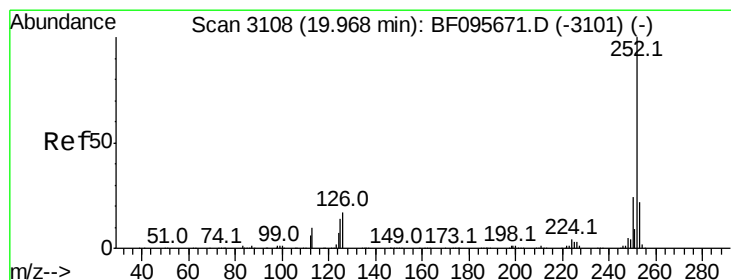
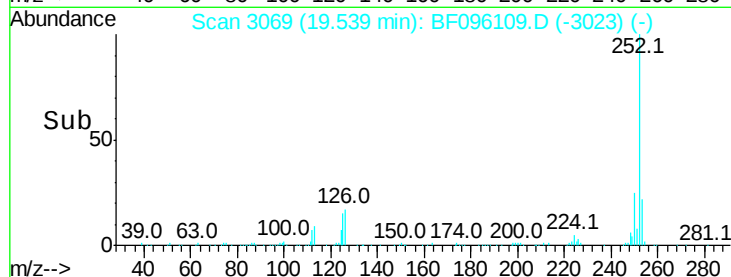
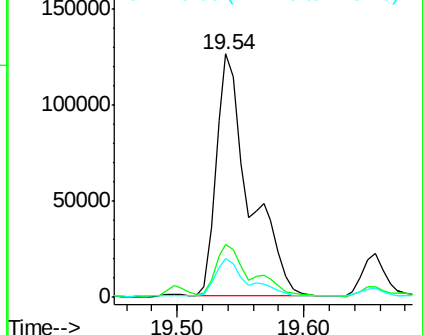
125 16.0 13.1 19.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 19.34 ng

RT: 19.89 min Scan# 3129

Delta R.T. 0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

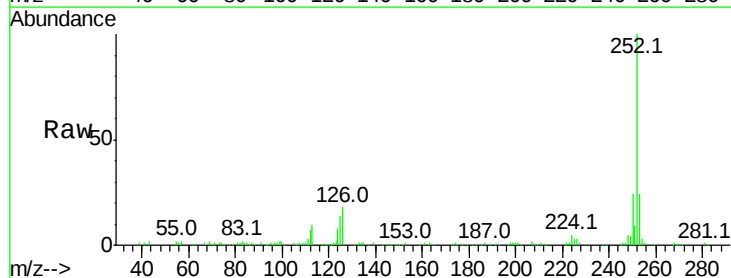
Tgt Ion:252 Resp: 132472

Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

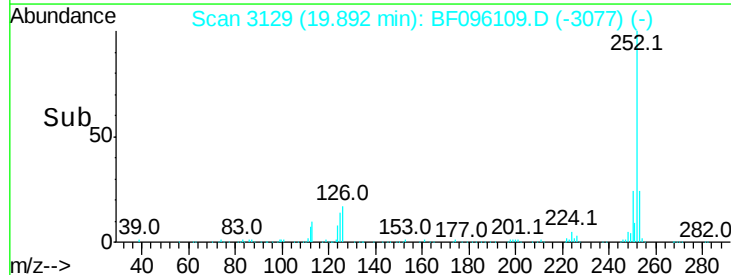
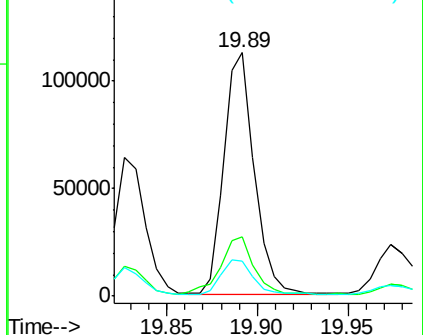
125 14.3 11.0 16.4

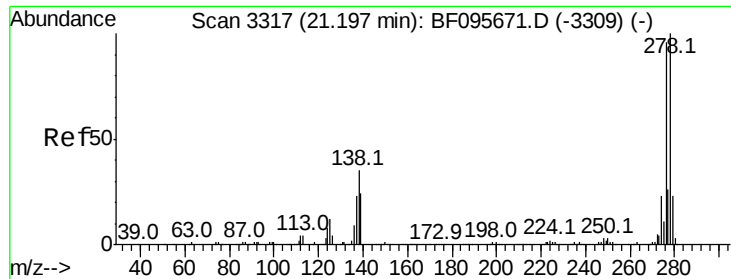


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.99 ng

RT: 21.10 min Scan# 3335

Delta R.T. 0.01 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

Instrument :

BNA_F

ClientSampleId :

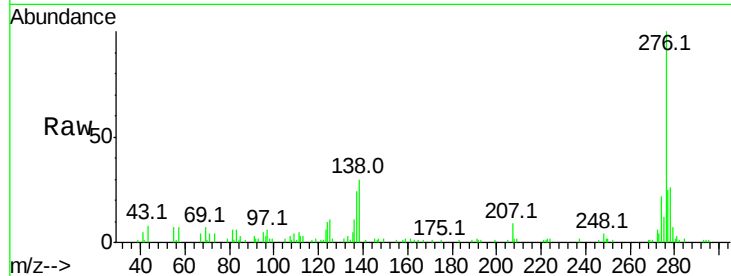
Tot Ion:278 Resp: 17349

Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

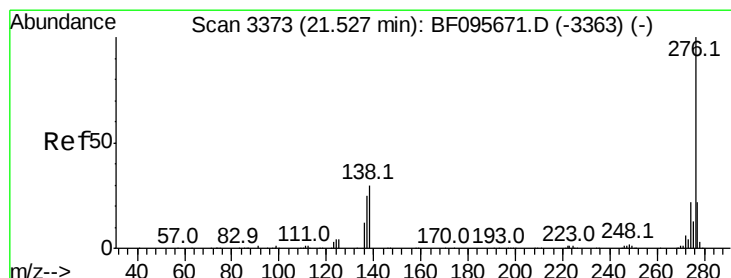
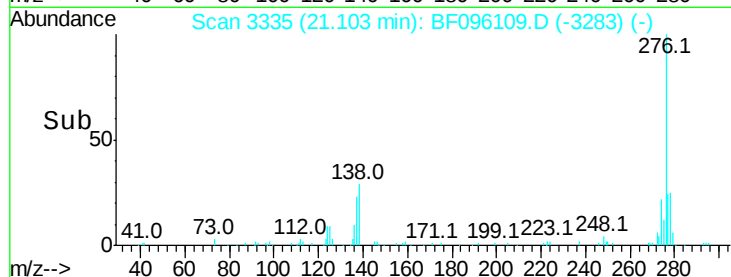
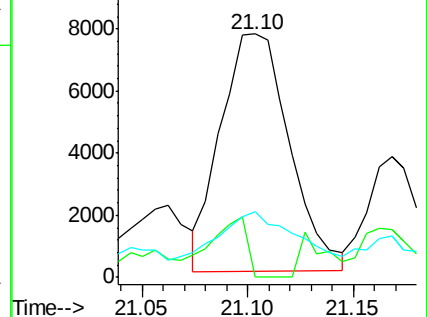
279 27.1 19.3 28.9



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



#91

Benzo(g,h,i)perylene

Concen: 9.49 ng

RT: 21.44 min Scan# 3392

Delta R.T. 0.02 min

Lab File: BF096109.D

Acq: 22 Jun 2017 6:24

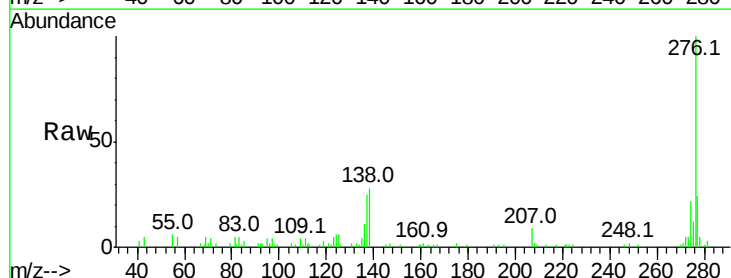
Tgt Ion:276 Resp: 56210

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 28.0 25.4 38.0



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

