

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
 Data File : BF099639.D
 Acq On : 19 Oct 2017 1:24
 Operator : SJ/JU
 Sample : I5935-10 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 19 16:19:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 18 22:24:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	89639	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	312091	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	110554	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	188855	20.00	ng	0.00
75) Chrysene-d12	14.00	240	188103	20.00	ng	0.00
86) Perylene-d12	15.47	264	152812	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	134872	23.95	ng	0.00
7) Phenol-d6	6.47	99	153379	22.08	ng	-0.01
23) Nitrobenzene-d5	7.39	82	77735	15.97	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	20193	22.32	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	142542	21.52	ng	0.00
78) Terphenyl-d14	12.93	244	120175	14.53	ng	0.00

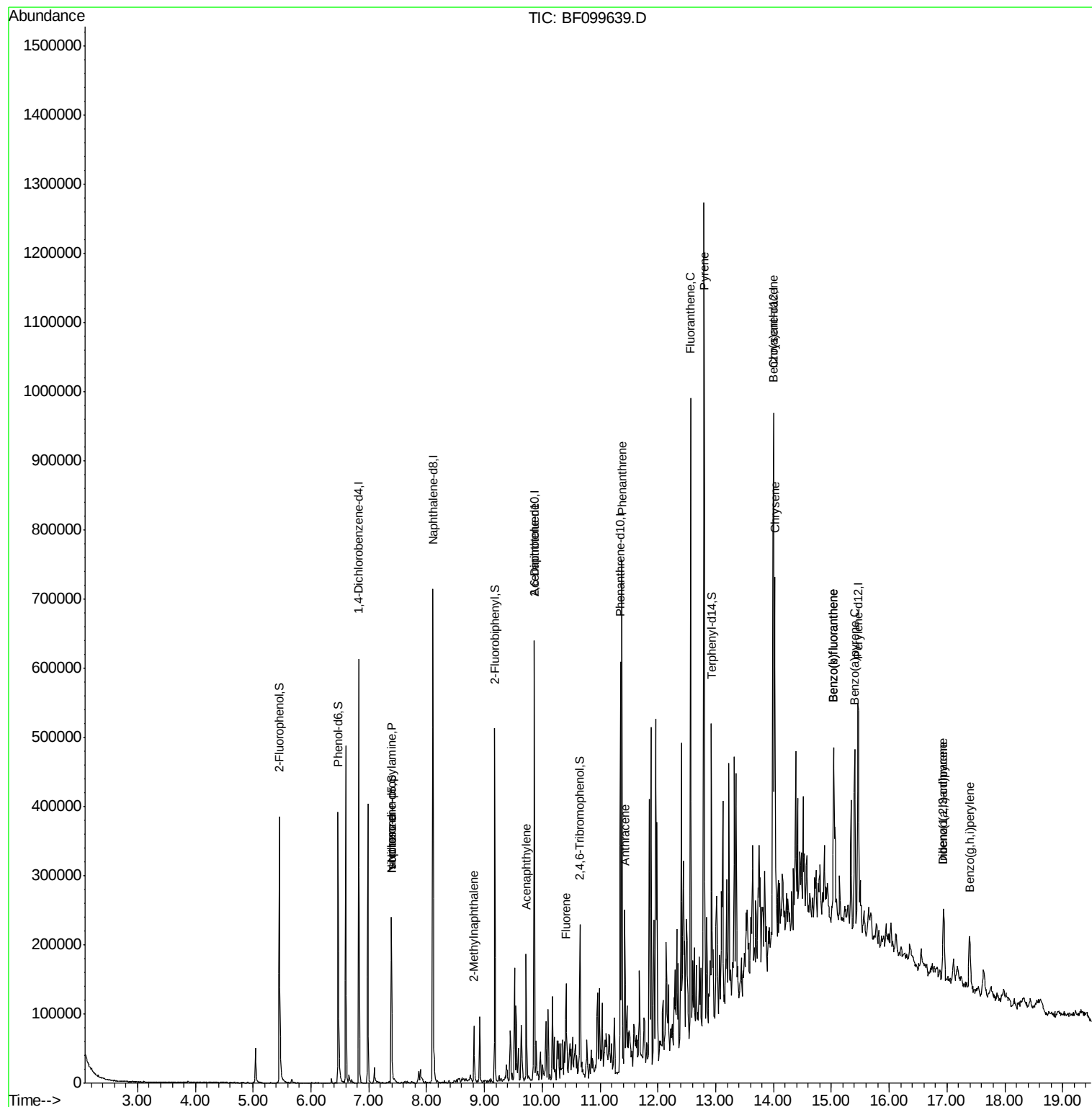
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	9388	2.117	ng	# 75
25) Isophorone	7.39	82	77733	7.726	ng	# 64
37) 2-Methylnaphthalene	8.82	142	19662	2.063	ng	96
48) Acenaphthylene	9.73	152	70368	6.443	ng	98
50) 2,6-Dinitrotoluene	9.86	165	15345	8.447	ng	# 24
57) Fluorene	10.41	166	36891	4.983	ng	99
70) Phenanthrene	11.37	178	249556	24.687	ng	99
71) Anthracene	11.43	178	85037	8.221	ng	98
74) Fluoranthene	12.57	202	308563	30.144	ng	99
77) Pyrene	12.80	202	461236	32.156	ng	99
80) Benzo(a)anthracene	13.99	228	193922	17.025	ng	95
82) Chrysene	14.02	228	190601	17.577	ng	97
85) Indeno(1,2,3-cd)pyrene	16.94	276	51768	5.968	ng	98
87) Benzo(b)fluoranthene	15.04	252	184621	19.650	ng	# 93
88) Benzo(k)fluoranthene	15.04	252	184621	19.895	ng	# 96
89) Benzo(a)pyrene	15.40	252	115970	13.447	ng	# 94
90) Dibenzo(a,h)anthracene	16.94	278	16332	2.366	ng	# 66
91) Benzo(g,h,i)perylene	17.39	276	55778	8.176	ng	# 91

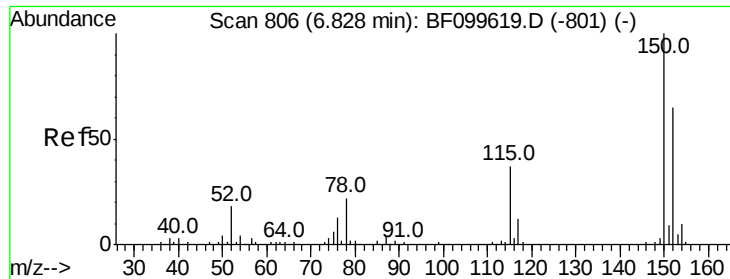
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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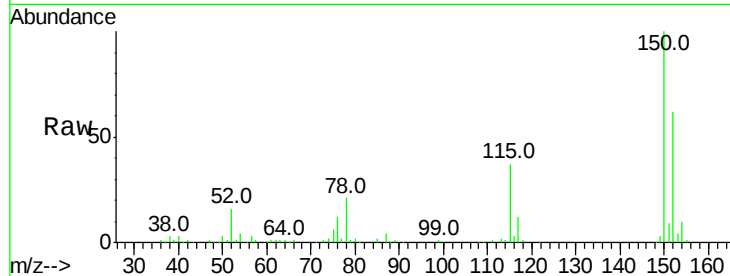


#1

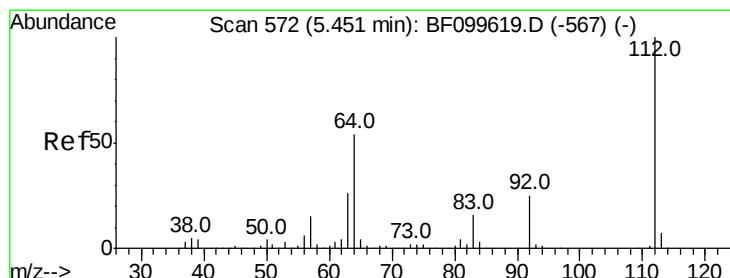
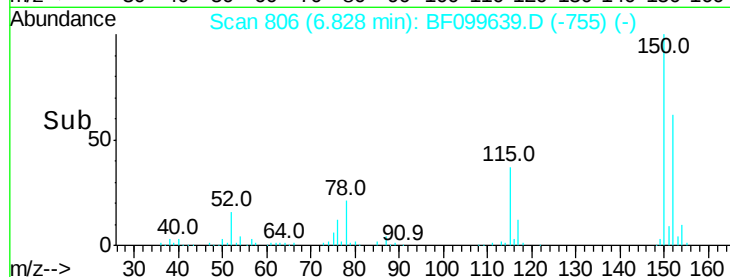
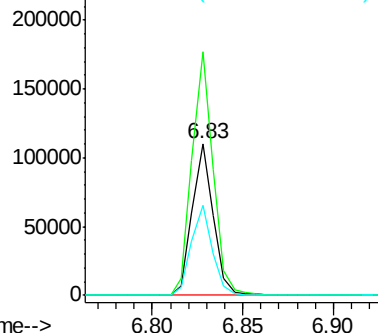
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 89639
Ion Ratio Lower Upper
152 100
150 160.5 124.6 186.8
115 59.3 50.1 75.1



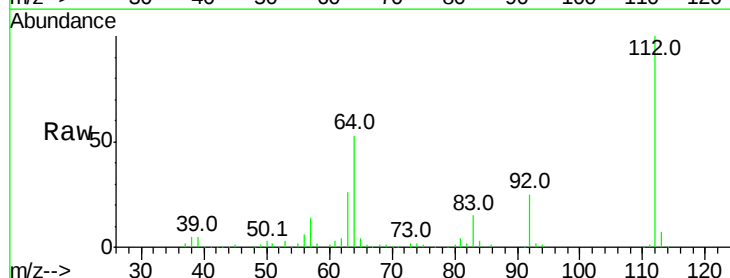
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



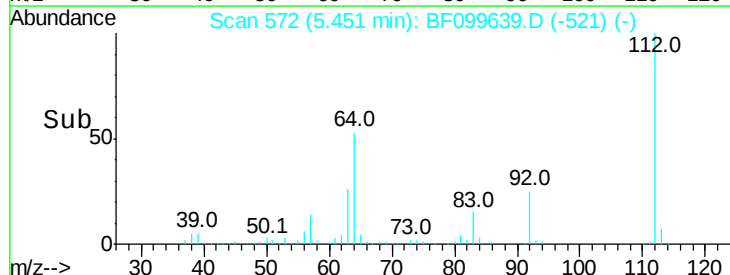
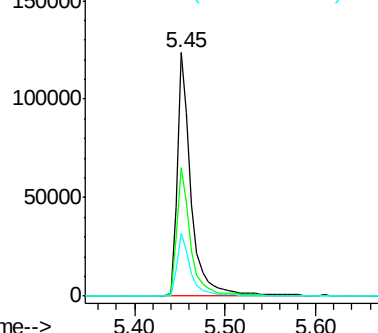
#5

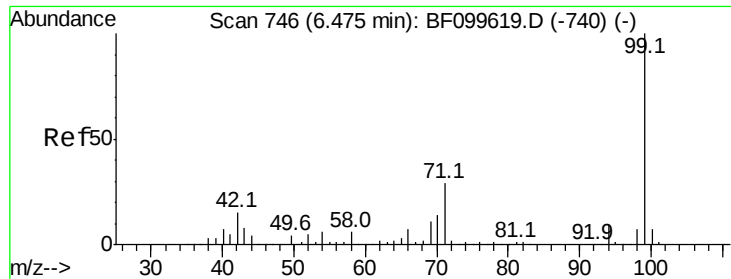
2-Fluorophenol
Concen: 23.952 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.00 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion:112 Resp: 134872
Ion Ratio Lower Upper
112 100
64 52.8 47.9 71.9
63 25.7 23.7 35.5



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: 22.080 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

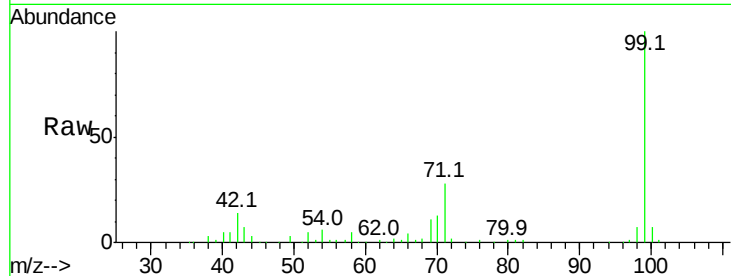
Tot Ion: 99 Resp: 153379

Ion Ratio Lower Upper

99 100

42 13.8 14.5 21.7#

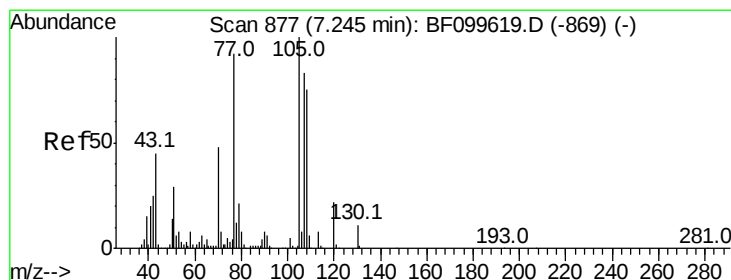
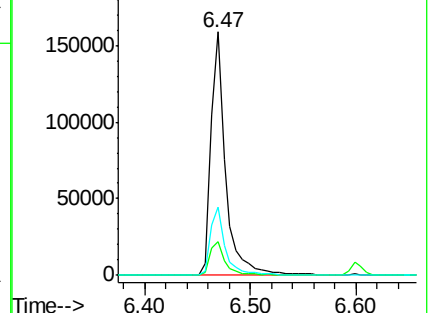
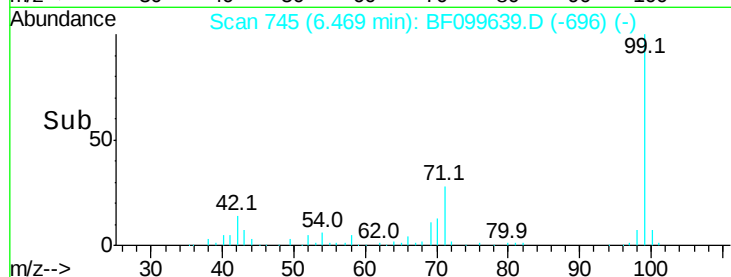
71 28.0 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.117 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.15 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Tgt Ion: 70 Resp: 9388

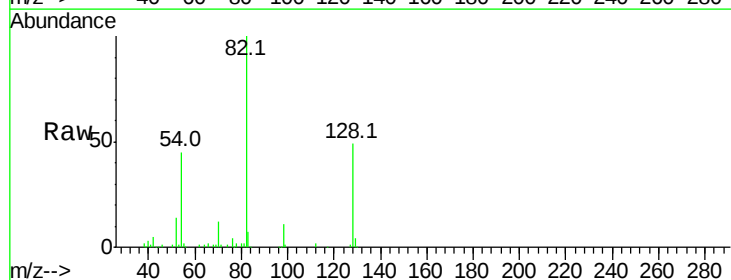
Ion Ratio Lower Upper

70 100

42 43.8 47.5 71.3#

101 0.0 7.4 11.2#

130 3.2 16.6 25.0#

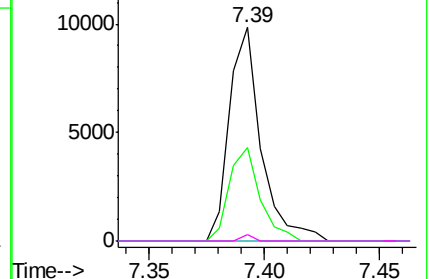
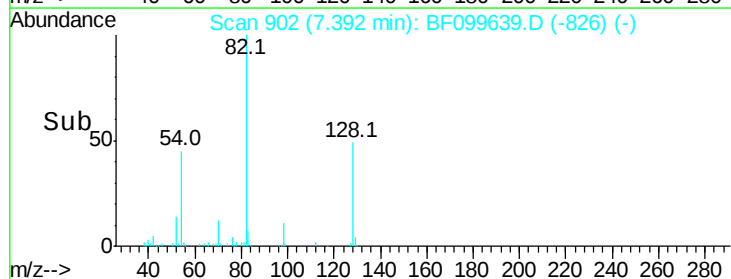


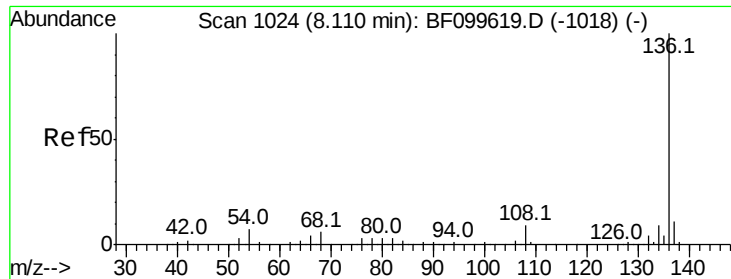
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

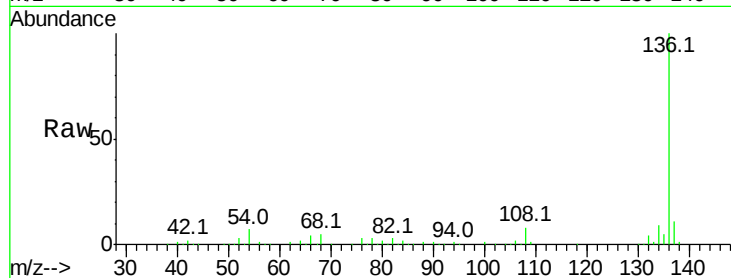




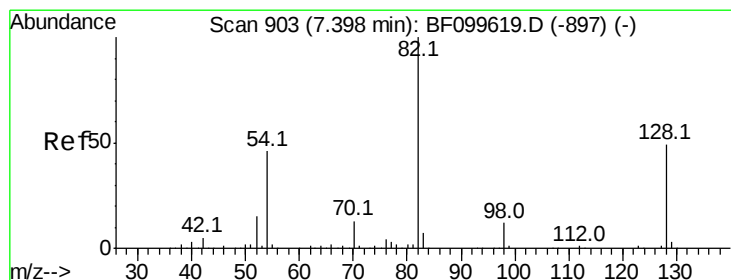
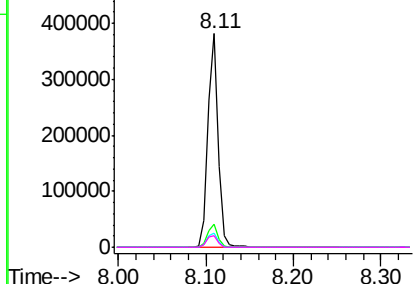
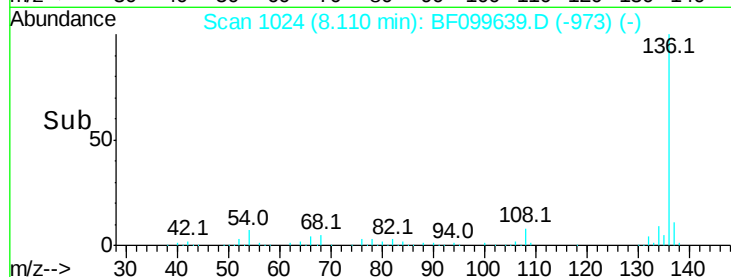
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.11 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	312091
Ion	Ratio	Lower Upper
136	100	
137	10.7	8.9 13.3
54	6.6	6.6 9.8
68	5.3	5.0 7.4

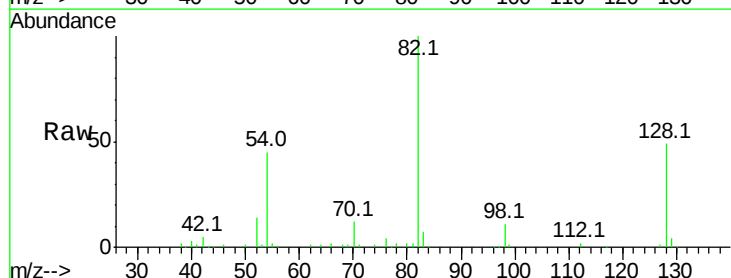


Abundance Ion 136.00 (135.70 to 136.70): E
600000
Ion 137.00 (136.70 to 137.70): E
500000
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

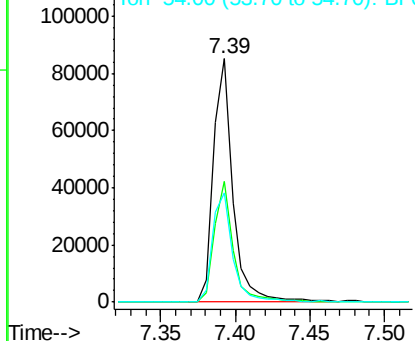
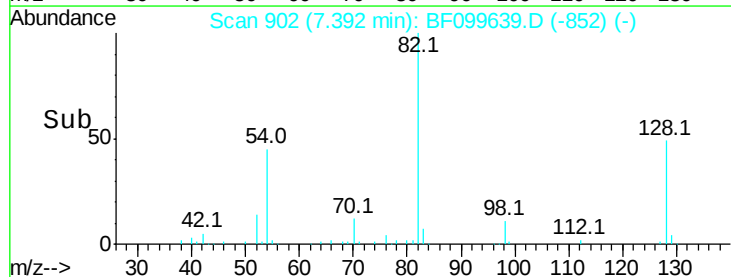


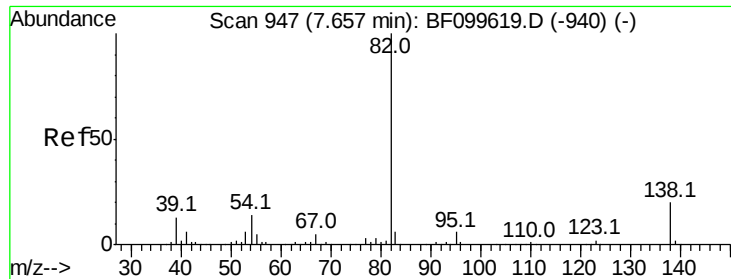
#23
Nitrobenzene-d5
Concen: 15.973 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion: 82	Resp:	77735
Ion	Ratio	Lower Upper
82	100	
128	49.3	36.1 54.1
54	45.0	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
100000
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 7.726 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.26 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

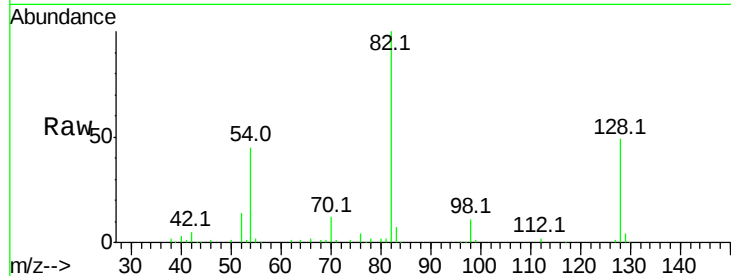
Tot Ion: 82 Resp: 77733

Ion Ratio Lower Upper

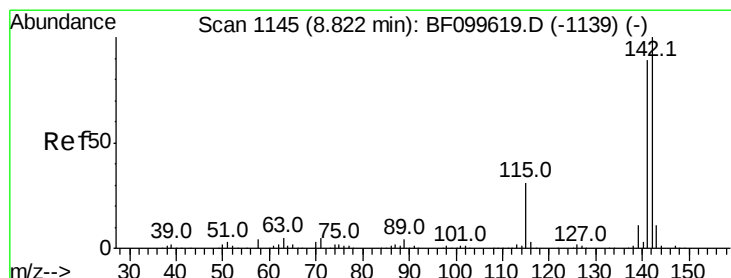
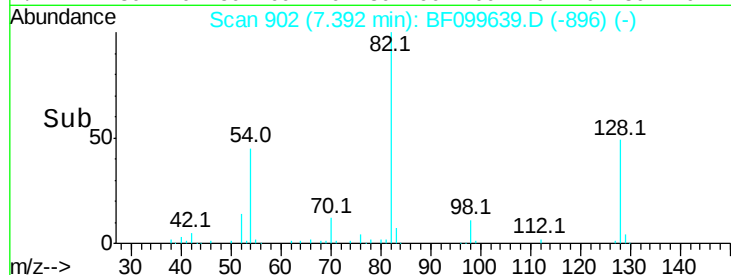
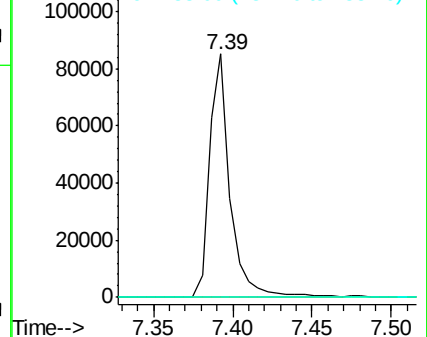
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#37

2-Methylnaphthalene

Concen: 2.063 ng

RT: 8.82 min Scan# 1145

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

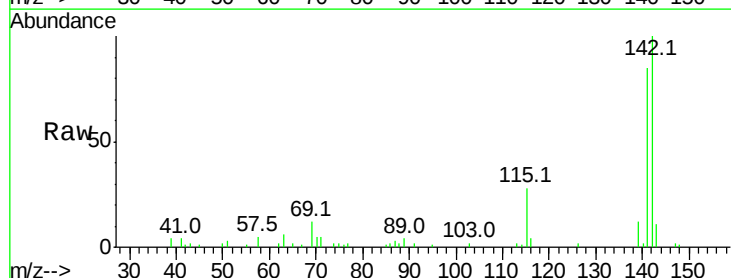
Tgt Ion: 142 Resp: 19662

Ion Ratio Lower Upper

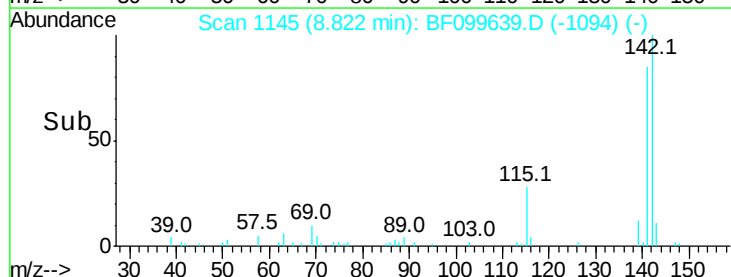
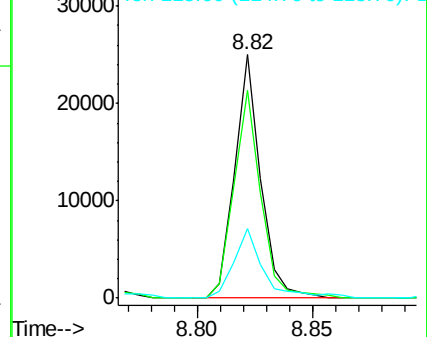
142 100

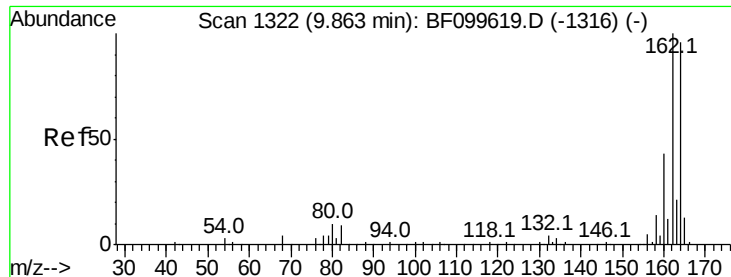
141 85.5 70.8 106.2

115 28.4 26.1 39.1



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

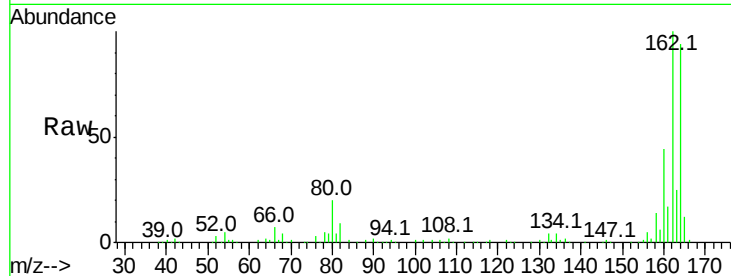




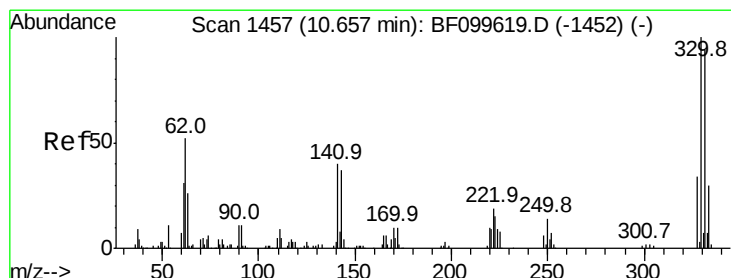
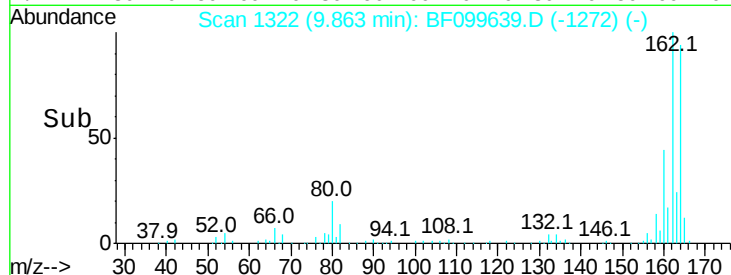
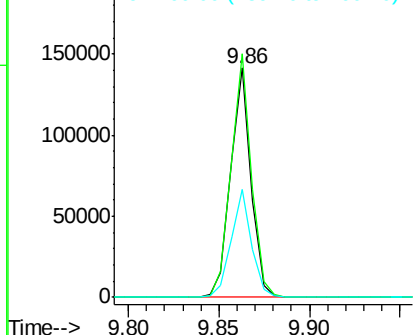
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 110554
Ion Ratio Lower Upper
164 100
162 106.3 86.1 129.1
160 47.0 38.3 57.5

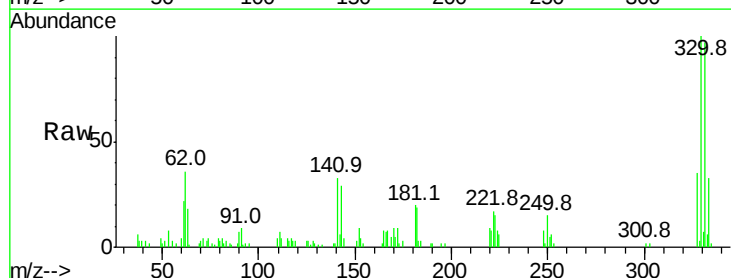


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

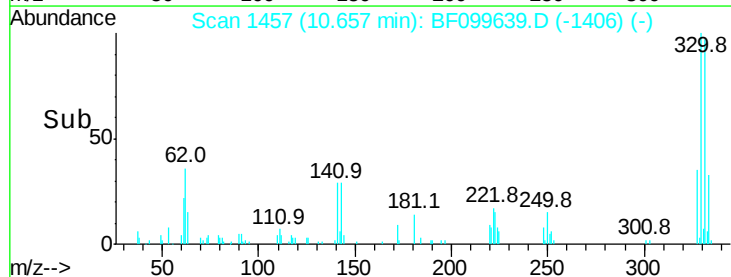
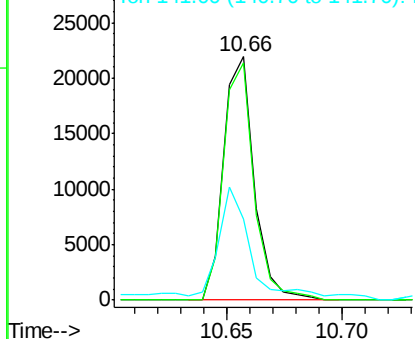


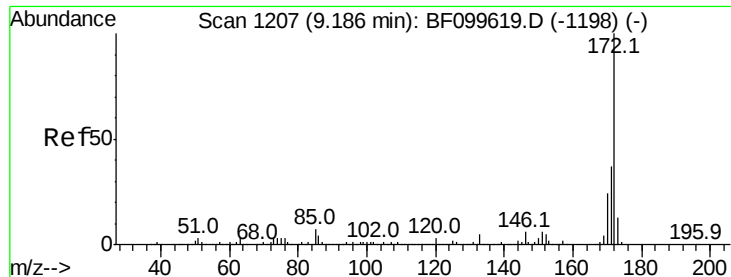
#41
2,4,6-Tribromophenol
Concen: 22.322 ng
RT: 10.66 min Scan# 1457
Delta R.T. 0.00 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion:330 Resp: 20193
Ion Ratio Lower Upper
330 100
332 97.0 77.0 115.6
141 51.5 29.9 44.9#



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: 21.525 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

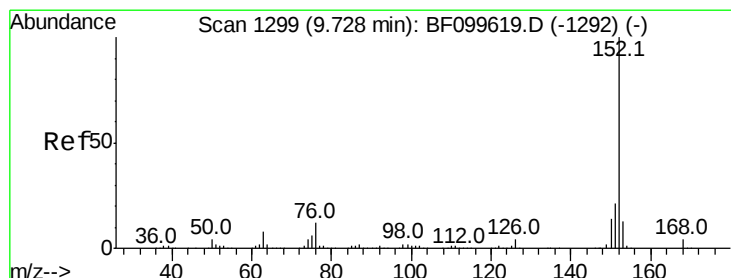
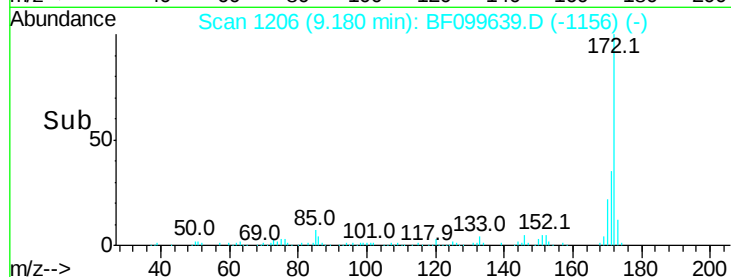
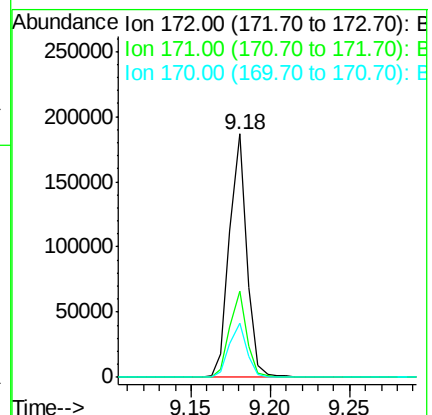
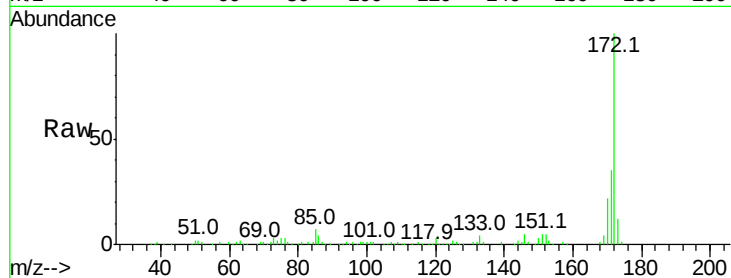
Tot Ion:172 Resp: 142542

Ion Ratio Lower Upper

172 100

171 35.1 29.7 44.5

170 22.2 19.6 29.4



#48

Acenaphthylene

Concen: 6.443 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

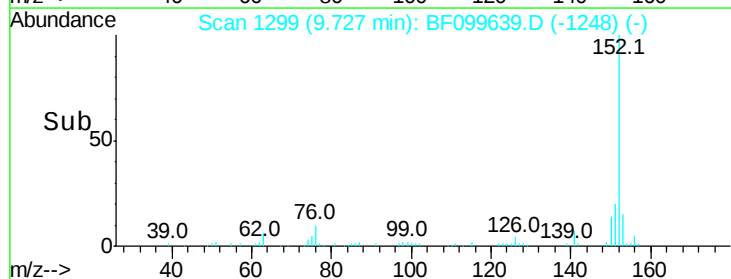
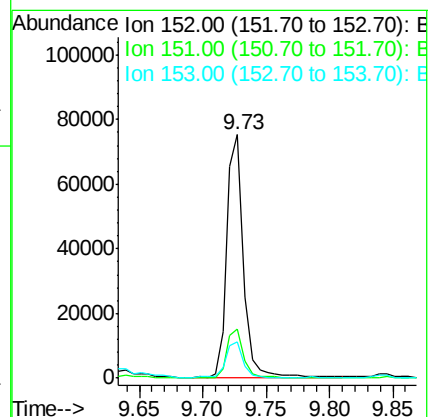
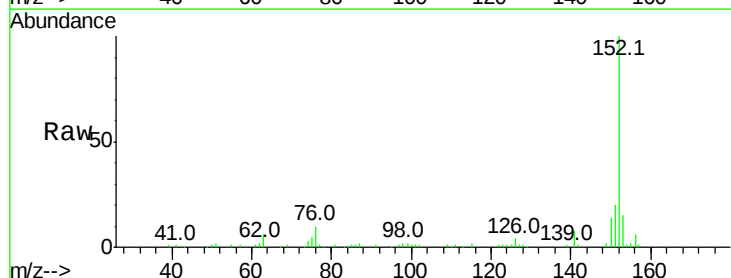
Tgt Ion:152 Resp: 70368

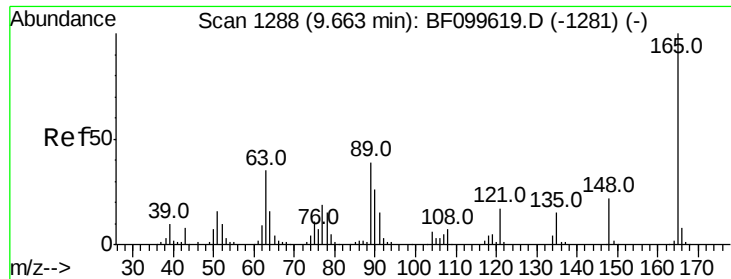
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 15.2 10.7 16.1

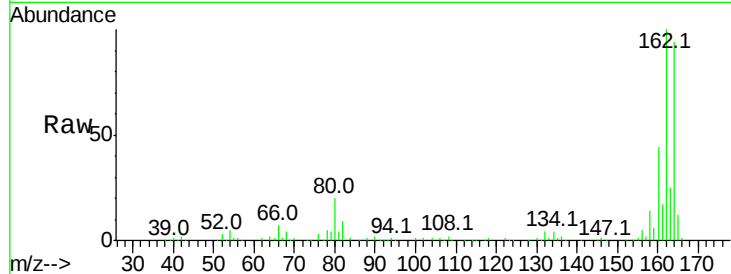




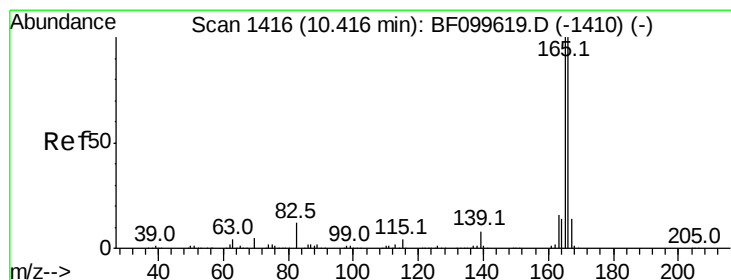
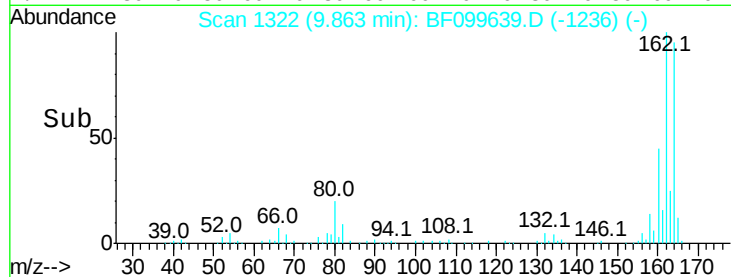
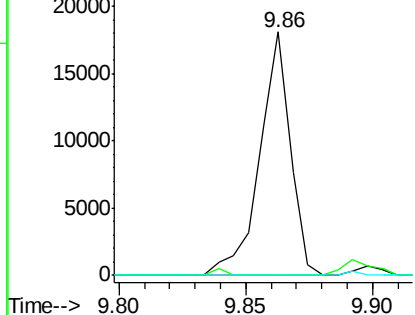
#50
 2,6-Dinitrotoluene
 Concen: 8.447 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. 0.21 min
 Lab File: BF099639.D
 Acq: 19 Oct 2017 1:24

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#

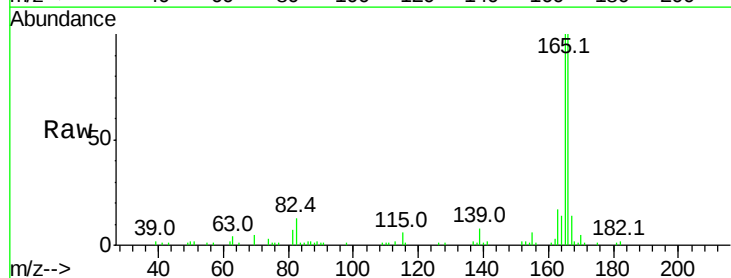


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

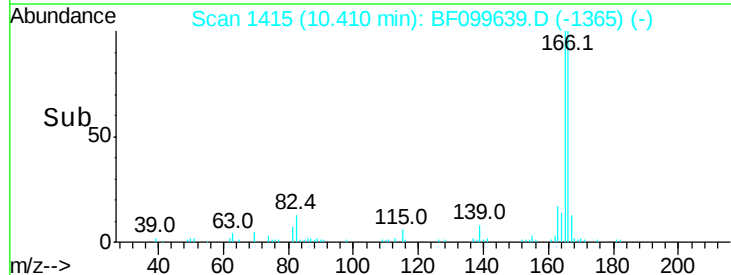
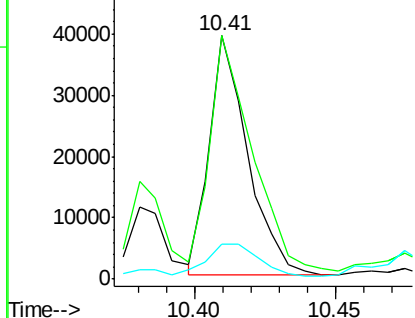


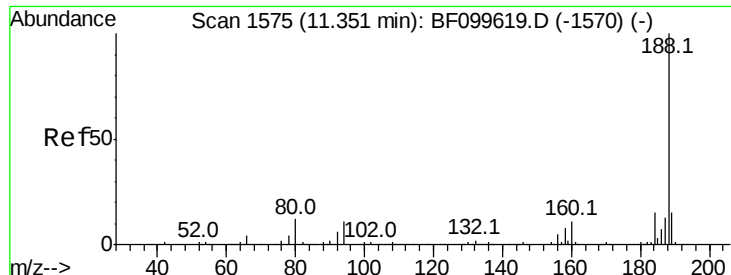
#57
 Fluorene
 Concen: 4.983 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. -0.01 min
 Lab File: BF099639.D
 Acq: 19 Oct 2017 1:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.8	119.8
167	14.3	10.6	16.0



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

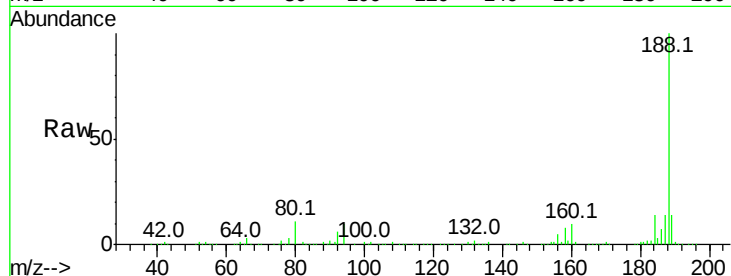




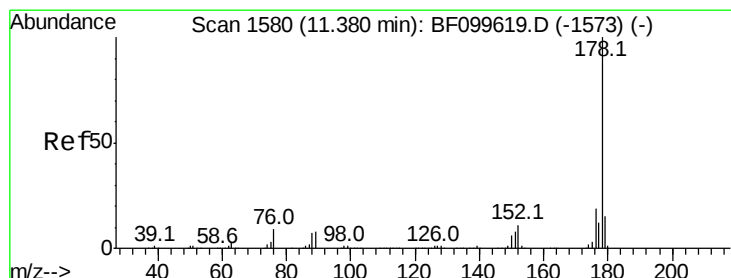
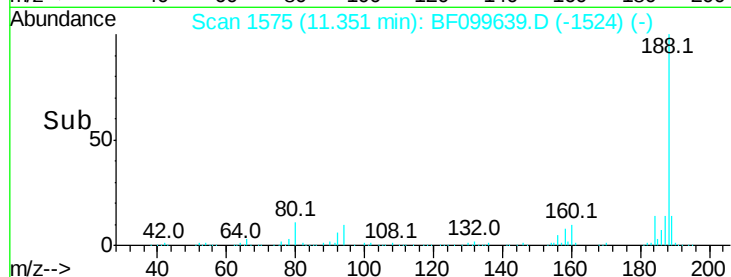
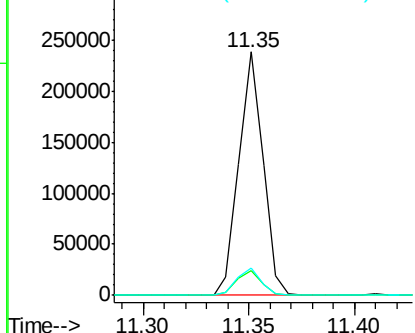
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.00 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	11.4	9.2	13.8

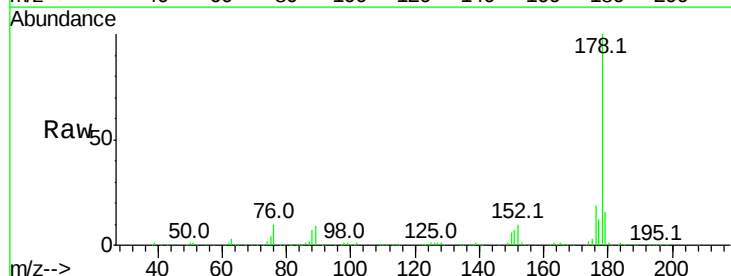


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

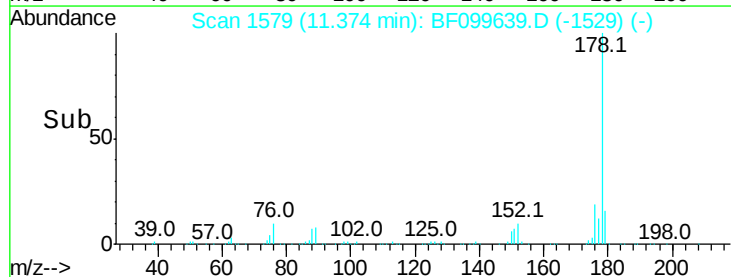
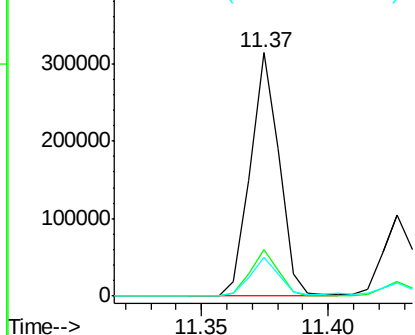


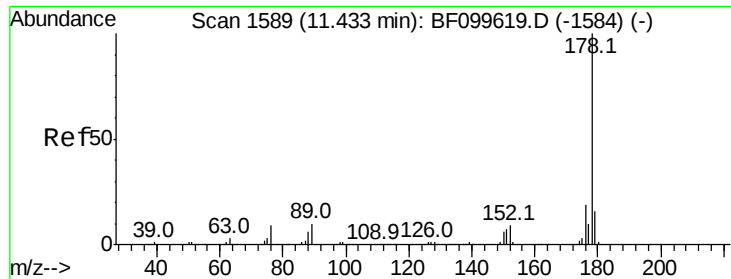
#70
Phenanthrene
Concen: 24.687 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	16.0	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

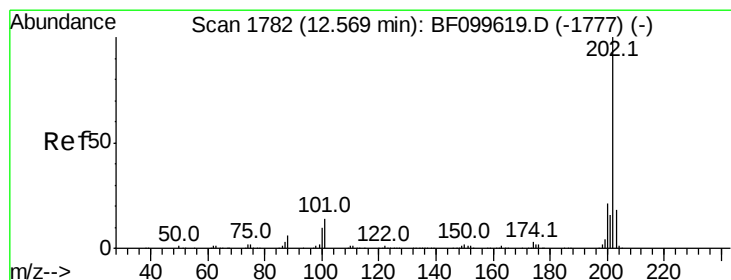
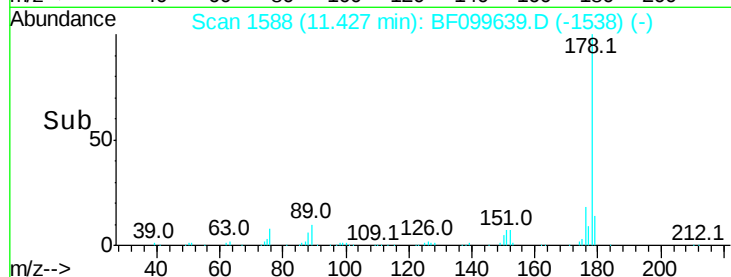
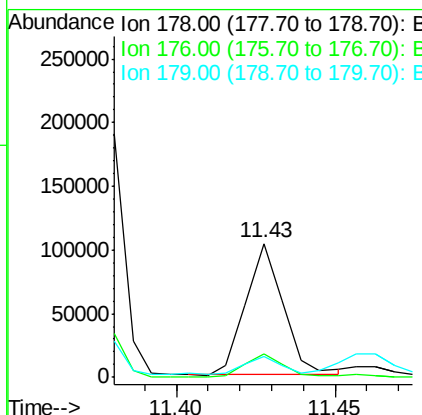
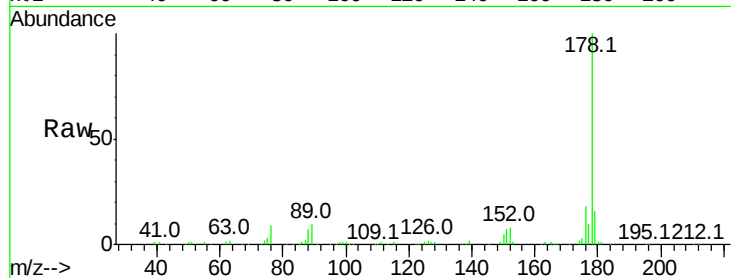




#71
 Anthracene
 Concen: 8.221 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF099639.D
 Acq: 19 Oct 2017 1:24

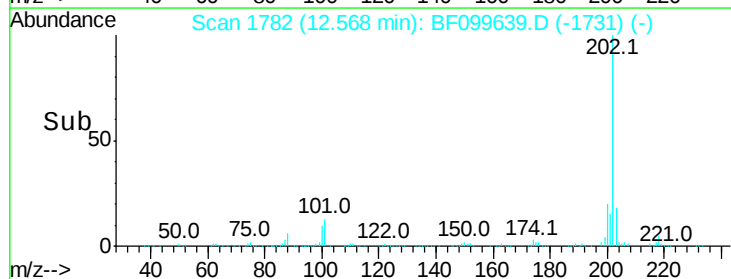
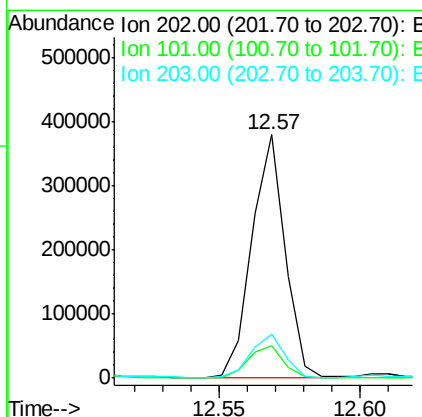
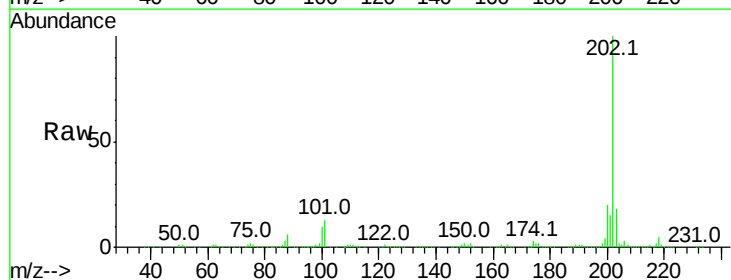
Instrument :
 BNA_F
 ClientSampleId :

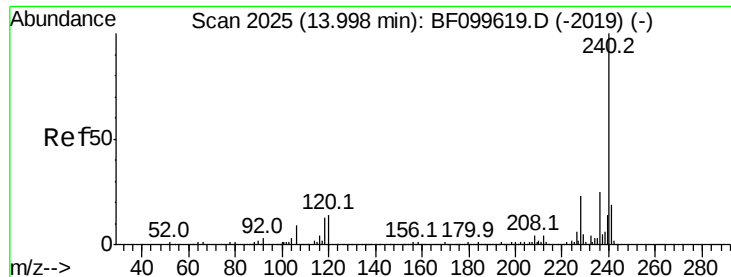
Tot Ion:178 Resp: 85037
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.4 23.2
 179 15.5 12.6 19.0



#74
 Fluoranthene
 Concen: 30.144 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: BF099639.D
 Acq: 19 Oct 2017 1:24

Tgt Ion:202 Resp: 308563
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 34.1
 203 18.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

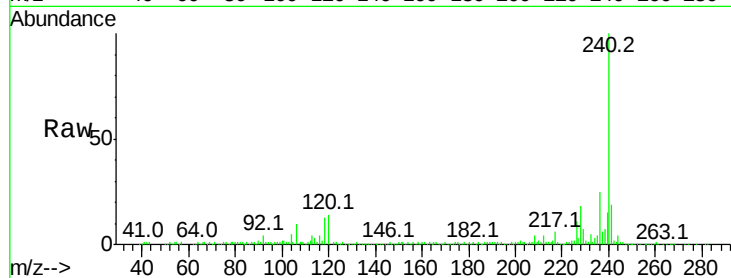
Tot Ion:240 Resp: 188103

Ion Ratio Lower Upper

240 100

120 13.7 9.5 14.3

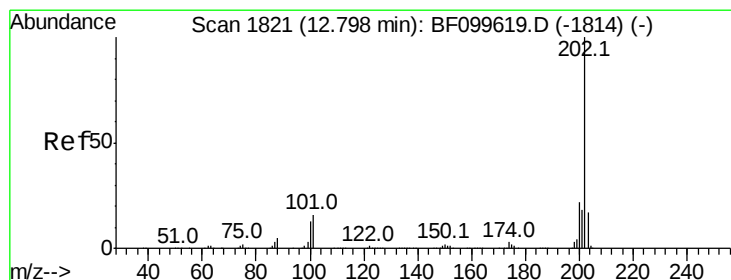
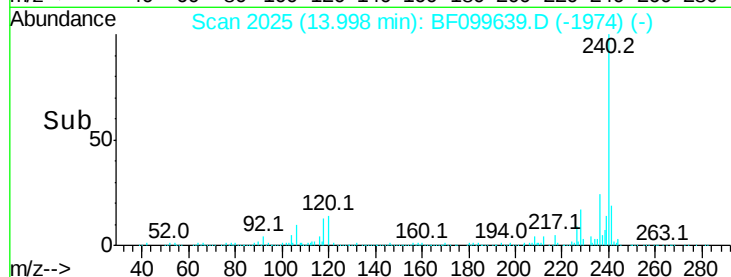
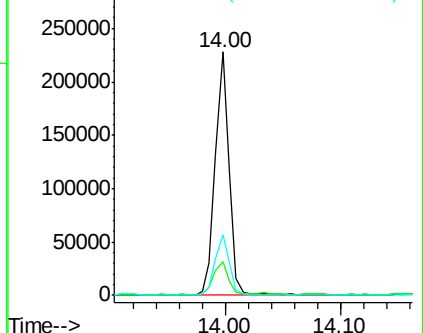
236 24.8 20.7 31.1



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



#77

Pyrene

Concen: 32.156 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

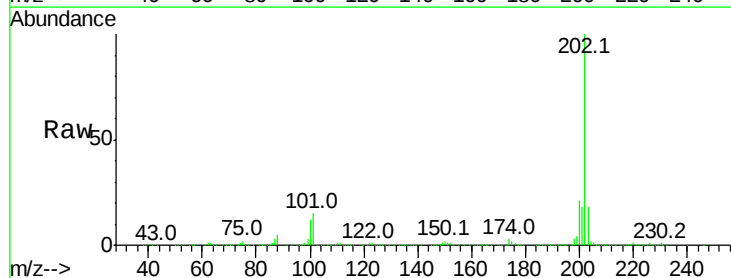
Tgt Ion:202 Resp: 461236

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

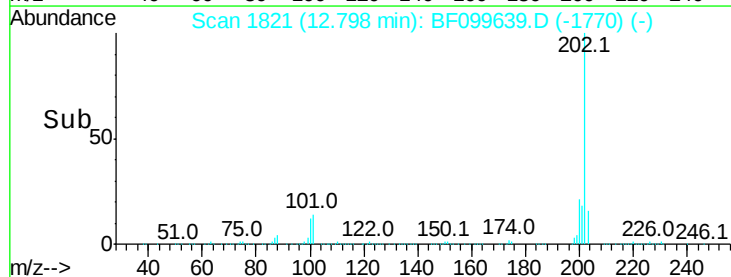
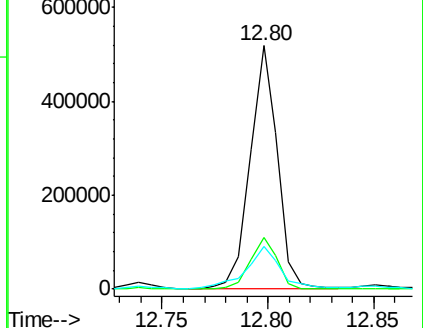
203 17.5 14.3 21.5

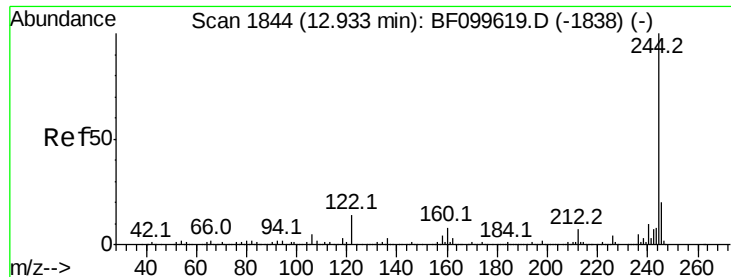


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.529 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

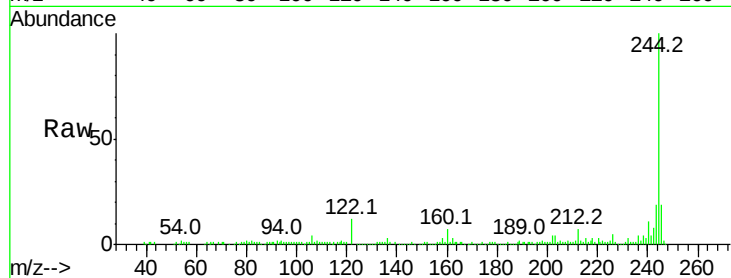
Tot Ion:244 Resp: 120175

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

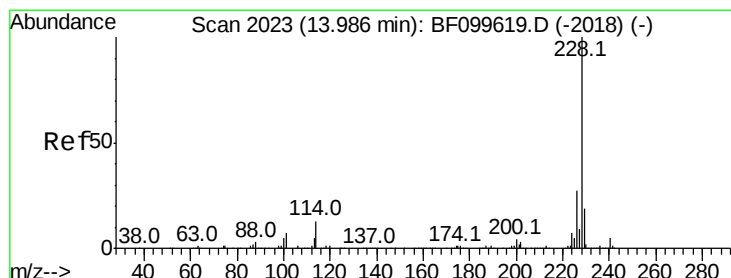
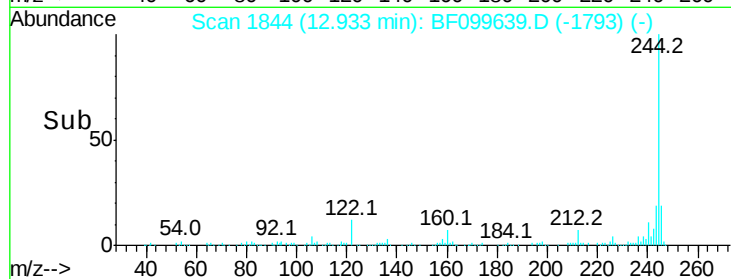
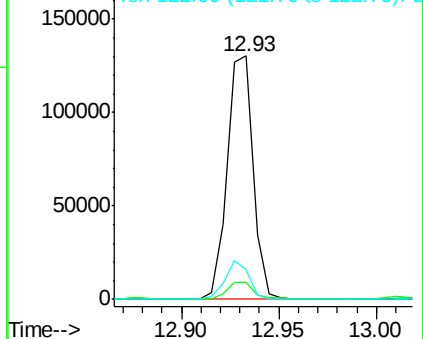
122 12.2 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 17.025 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

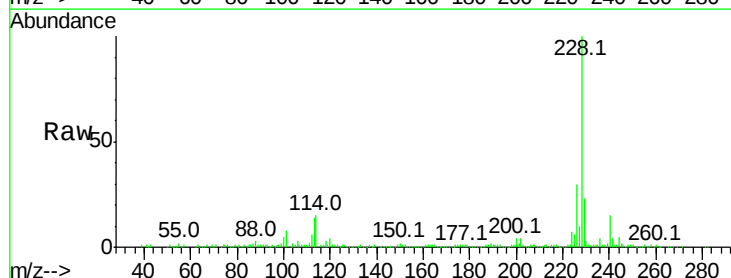
Tgt Ion:228 Resp: 193922

Ion Ratio Lower Upper

228 100

226 29.8 22.6 33.8

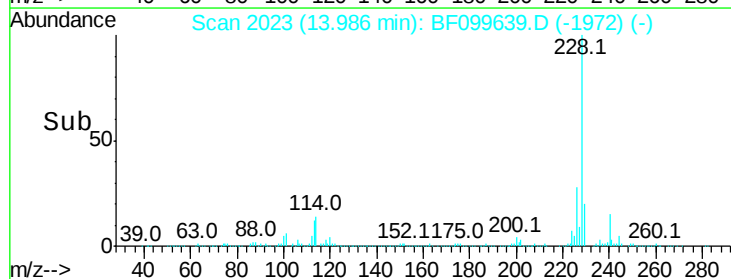
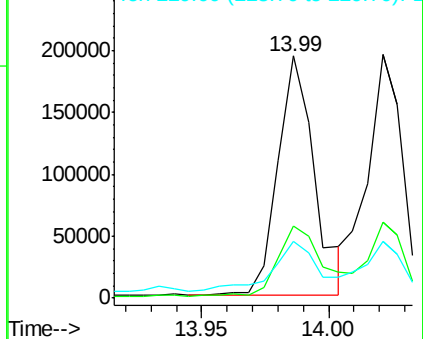
229 23.4 15.8 23.6

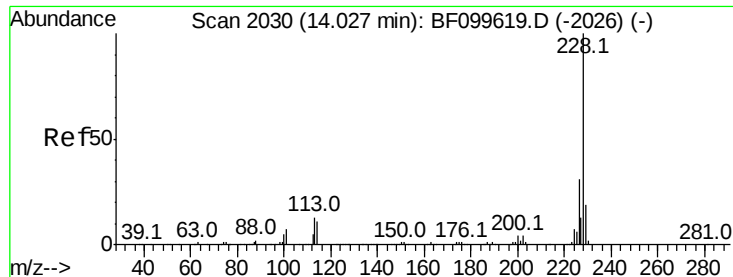


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.577 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

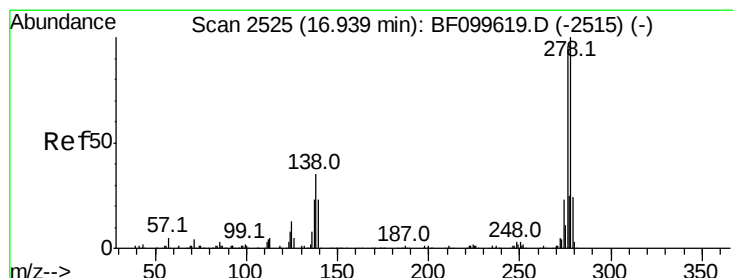
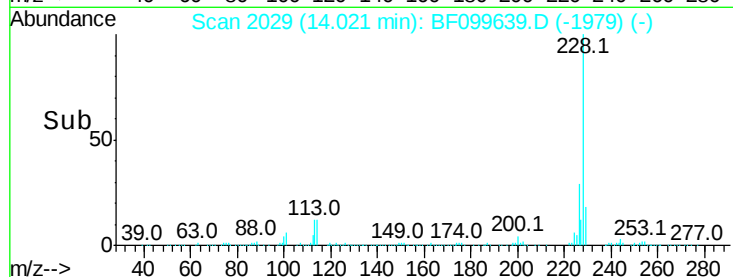
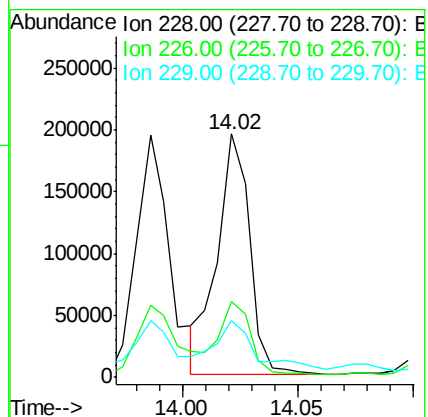
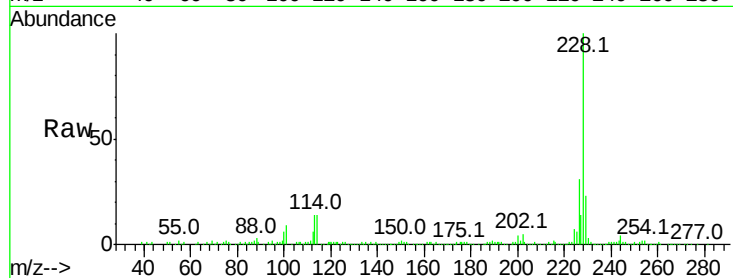
Tot Ion:228 Resp: 190601

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

229 23.3 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.968 ng

RT: 16.94 min Scan# 2526

Delta R.T. 0.01 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

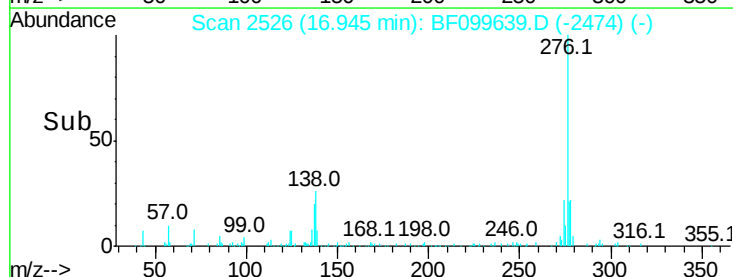
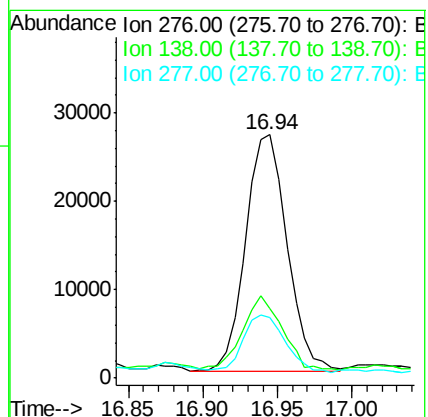
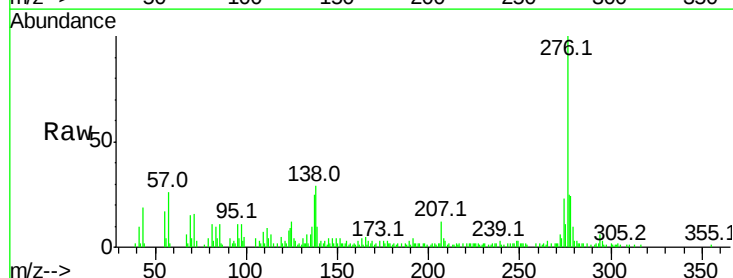
Tgt Ion:276 Resp: 51768

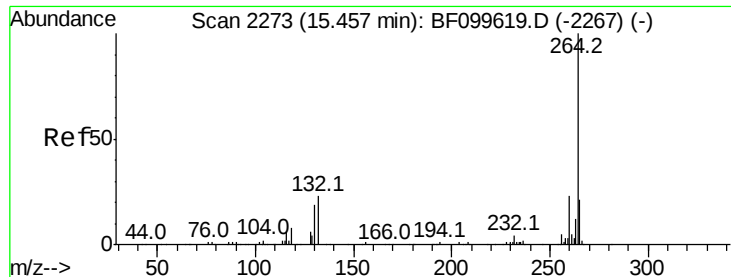
Ion Ratio Lower Upper

276 100

138 30.0 25.0 37.6

277 24.4 20.1 30.1



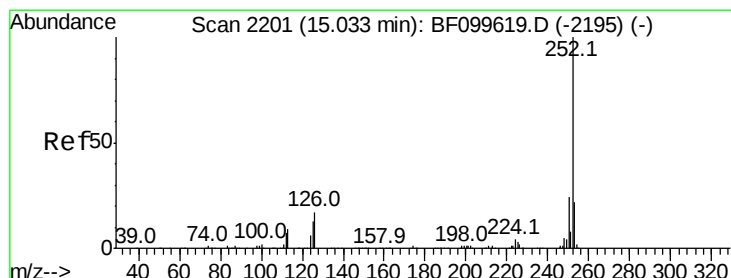
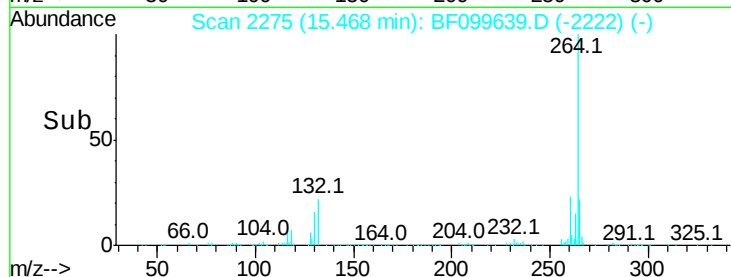
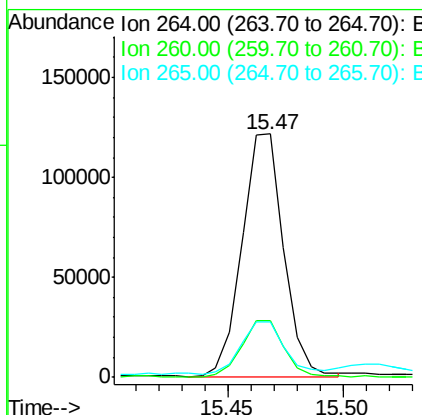
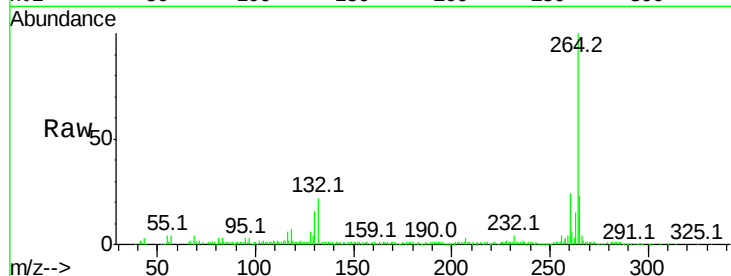


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 152812

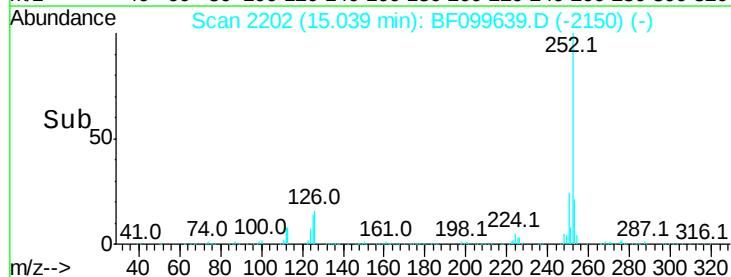
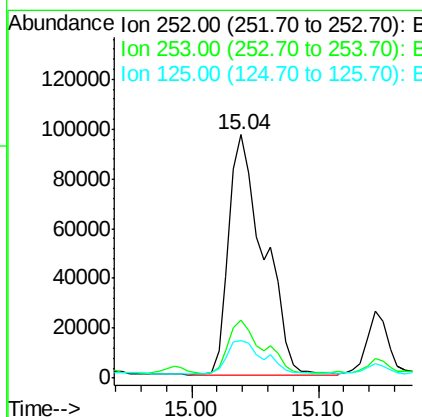
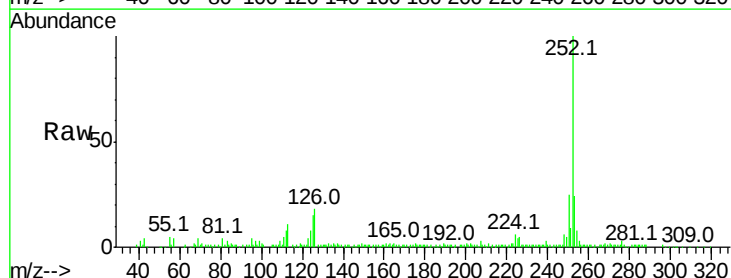
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.0	17.5	26.3

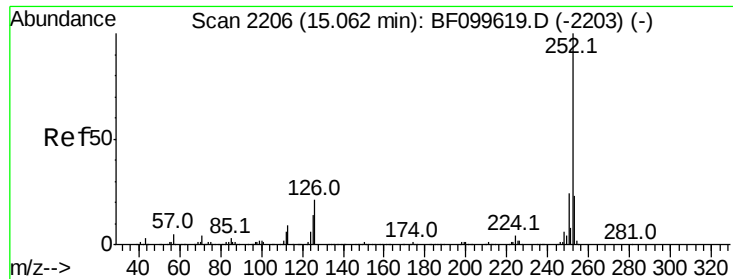


#87
Benzo(b)fluoranthene
Concen: 19.650 ng
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion:252 Resp: 184621

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	15.4	9.0	13.6#

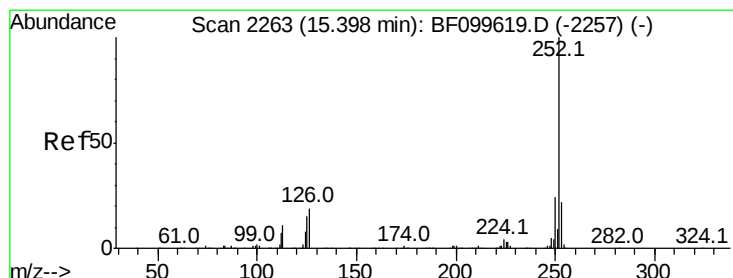
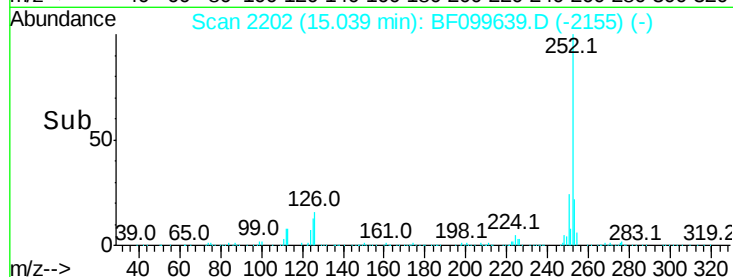
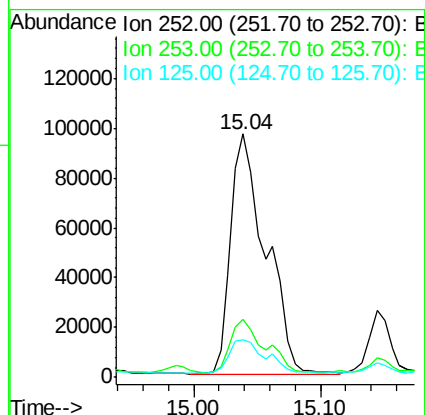
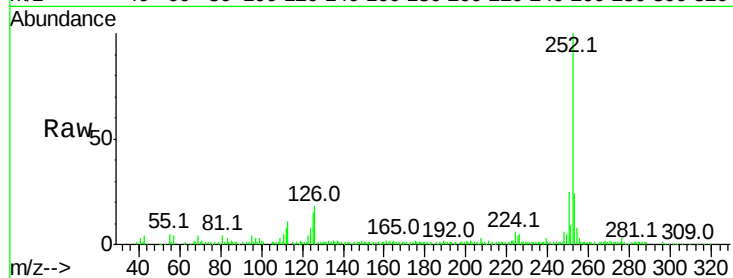




#88
Benzo(k)fluoranthene
Concen: 19.895 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

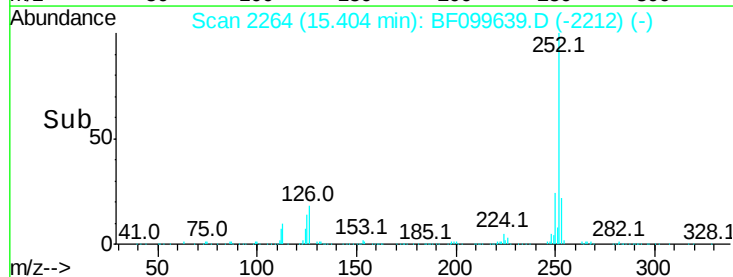
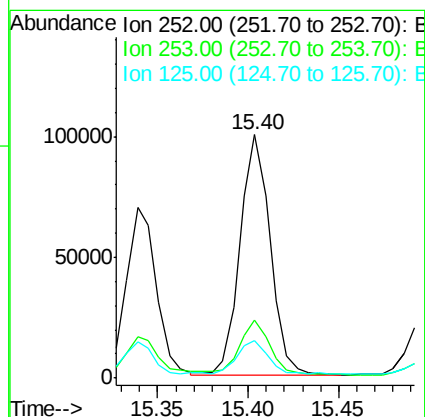
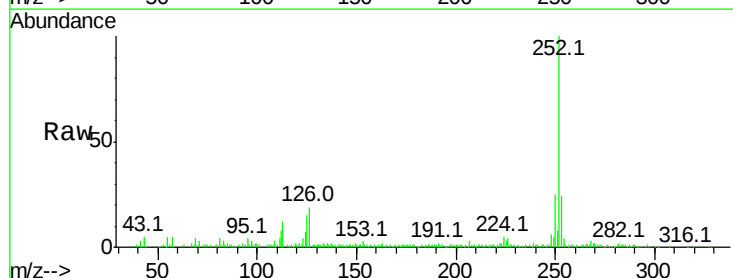
Instrument :
BNA_F
ClientSampleId :

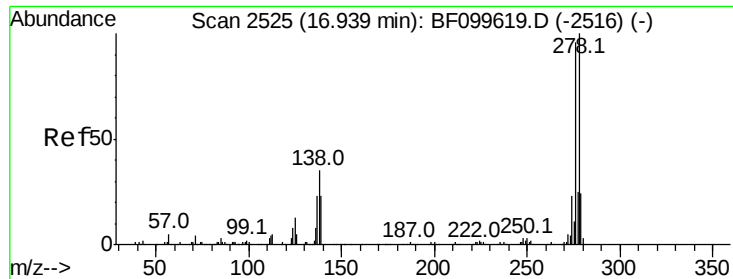
Tot Ion:252 Resp: 184621
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 15.4 10.2 15.2#



#89
Benzo(a)pyrene
Concen: 13.447 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF099639.D
Acq: 19 Oct 2017 1:24

Tgt Ion:252 Resp: 115970
Ion Ratio Lower Upper
252 100
253 23.7 17.1 25.7
125 15.2 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.366 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.00 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

Instrument :

BNA_F

ClientSampleId :

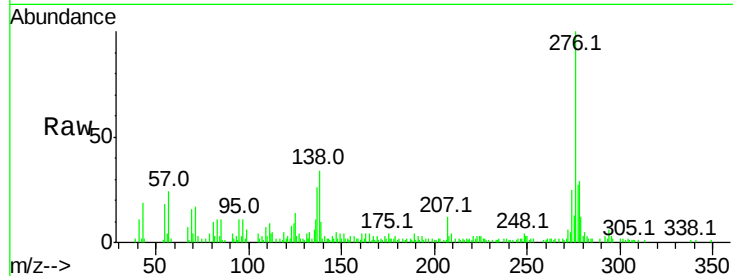
Tot Ion:278 Resp: 16332

Ion Ratio Lower Upper

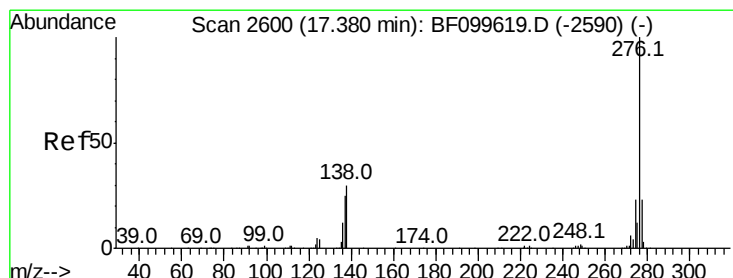
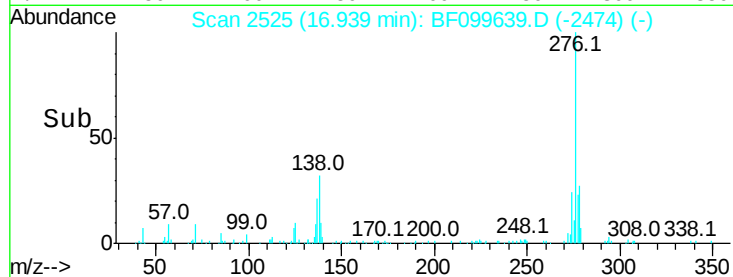
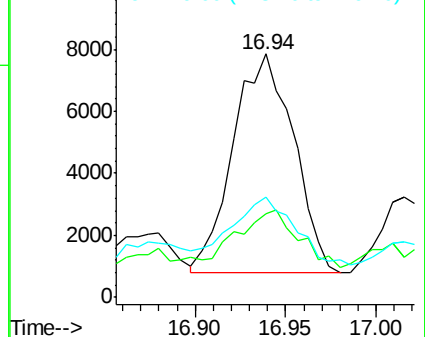
278 100

139 34.3 15.9 23.9#

279 41.2 19.0 28.4#



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: 8.176 ng

RT: 17.39 min Scan# 2602

Delta R.T. 0.02 min

Lab File: BF099639.D

Acq: 19 Oct 2017 1:24

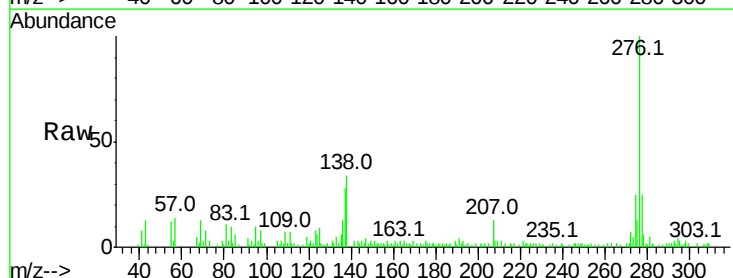
Tgt Ion:276 Resp: 55778

Ion Ratio Lower Upper

276 100

277 25.1 17.9 26.9

138 33.6 21.8 32.8#



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

