

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\
 Data File : BF094630.D
 Acq On : 26 Apr 2017 3:46
 Operator : SJ/MA
 Sample : I2820-01 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 26 05:36:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	119001	20.00	ng	-0.01
21) Naphthalene-d8	7.25	136	462245	20.00	ng	-0.01
38) Acenaphthene-d10	9.38	164	179191	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	270278	20.00	ng	-0.02
75) Chrysene-d12	14.46	240	241405	20.00	ng	0.00
86) Perylene-d12	16.08	264	172288	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.30	112	165818	23.12	ng	0.00
7) Phenol-d6	5.37	99	207477	24.54	ng	-0.02
23) Nitrobenzene-d5	6.40	82	112251	14.99	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	24663	17.60	ng	-0.02
44) 2-Fluorobiphenyl	8.57	172	177120	14.54	ng	-0.02
78) Terphenyl-d14	13.18	244	99657	11.03	ng	-0.02

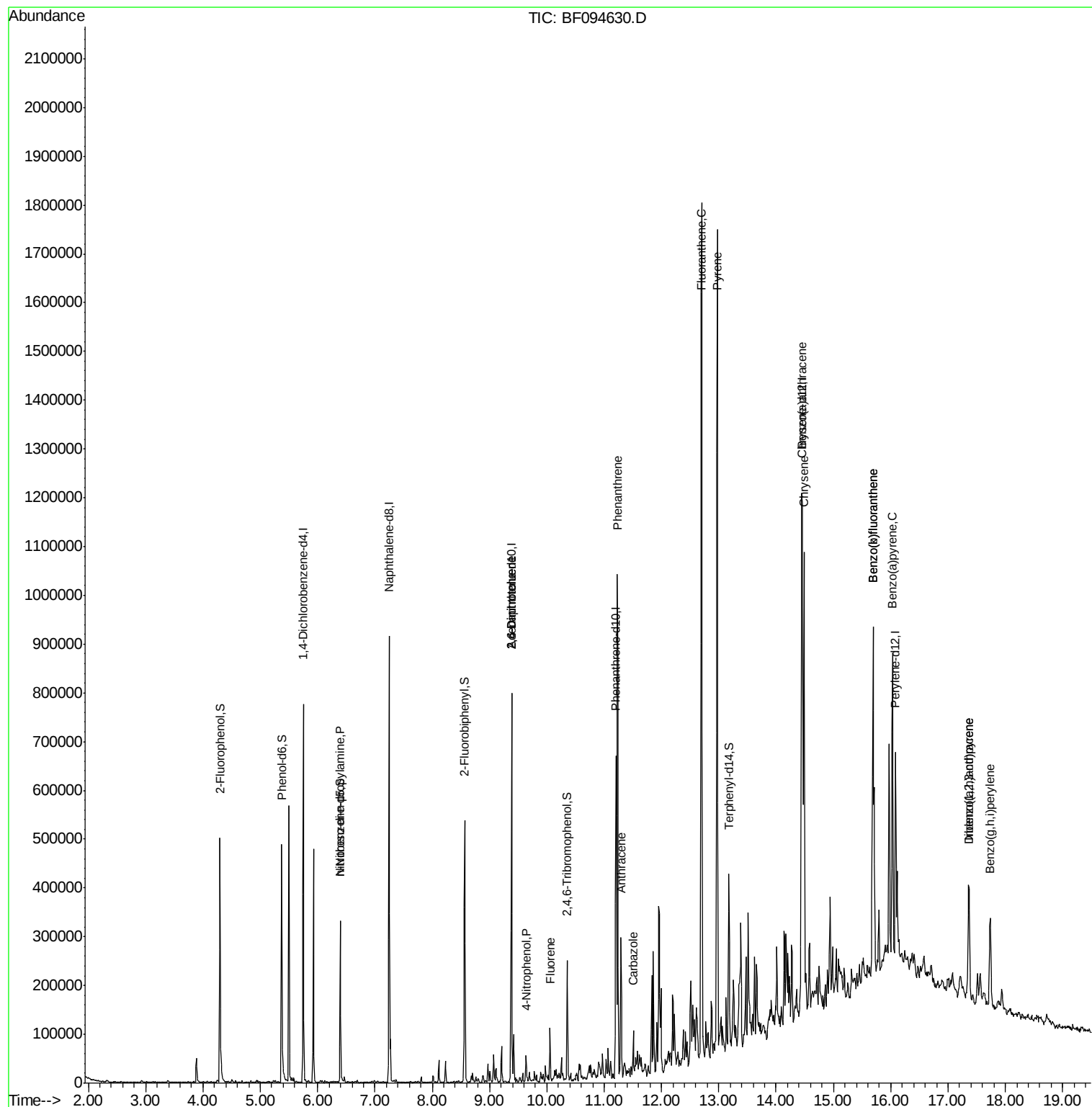
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	6.40	70	14088	2.51	ng	# 71
50) 2,6-Dinitrotoluene	9.38	165	23695	7.91	ng	# 34
55) 4-Nitrophenol	9.64	139	7742	3.16	ng	# 28
56) 2,4-Dinitrotoluene	9.38	165	23695	6.44	ng	# 34
57) Fluorene	10.05	166	27337	2.22	ng	96
70) Phenanthrene	11.23	178	418858	27.52	ng	99
71) Anthracene	11.30	178	121984	7.75	ng	97
72) Carbazole	11.51	167	39297	2.66	ng	98
74) Fluoranthene	12.70	202	805429	51.06	ng	98
77) Pyrene	12.98	202	812669	48.18	ng	99
80) Benzo(a)anthracene	14.45	228	425980	30.36	ng	99
82) Chrysene	14.49	228	397794	31.02	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	137060	11.23	ng	93
87) Benzo(b)fluoranthene	15.69	252	511482	48.53	ng	# 97
88) Benzo(k)fluoranthene	15.69	252	511482	51.28	ng	98
89) Benzo(a)pyrene	16.03	252	256413	26.15	ng	98
90) Dibenzo(a,h)anthracene	17.37	278	37384	4.59	ng	# 82
91) Benzo(g,h,i)perylene	17.74	276	125486	15.14	ng	98

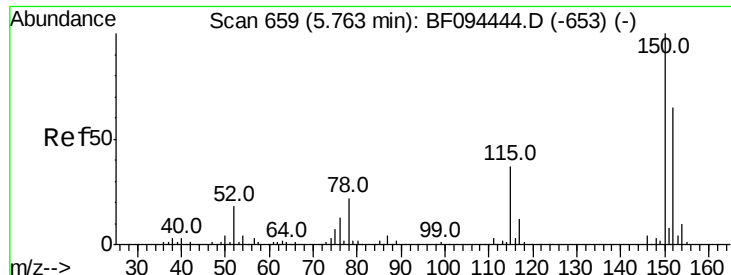
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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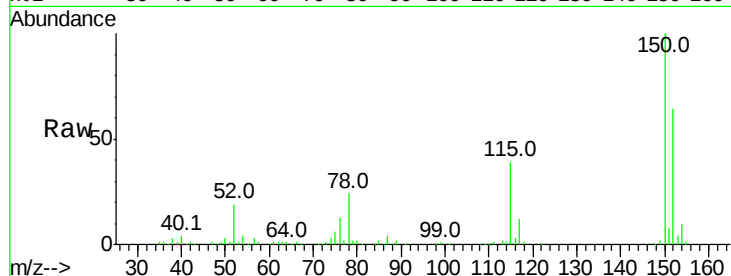


#1

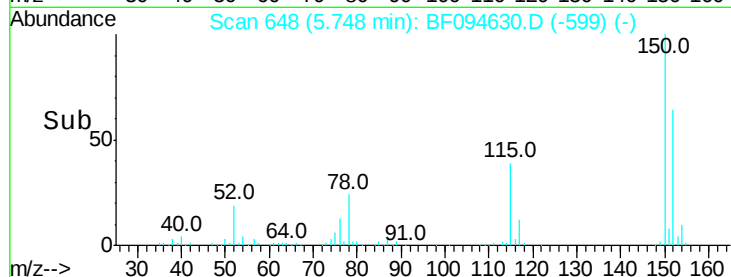
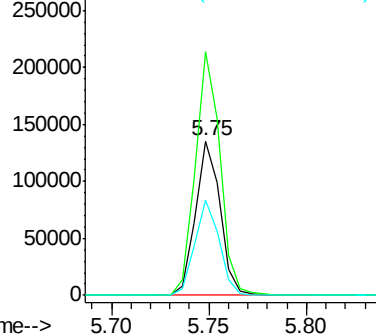
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.75 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 119001
Ion Ratio Lower Upper
152 100
150 157.4 126.2 189.2
115 61.2 52.2 78.2



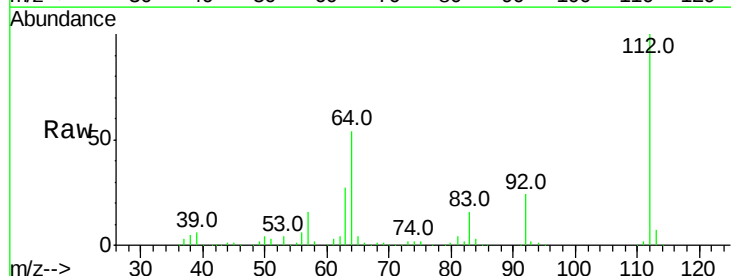
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



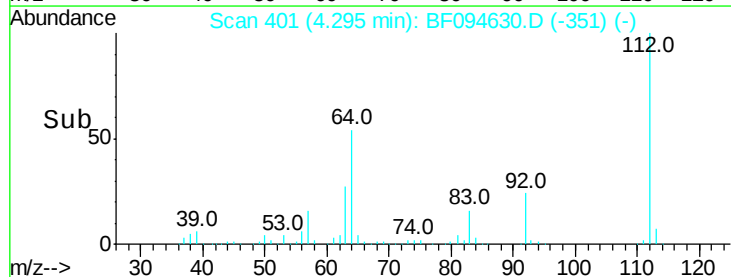
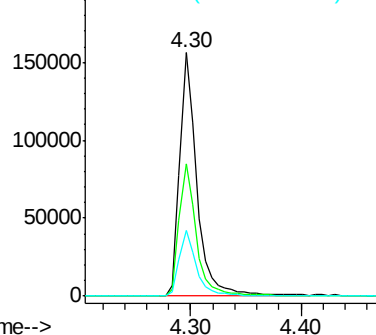
#5

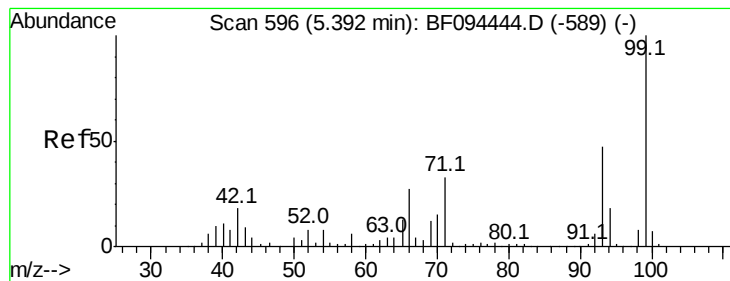
2-Fluorophenol
Concen: 23.12 ng
RT: 4.30 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion:112 Resp: 165818
Ion Ratio Lower Upper
112 100
64 54.2 46.0 69.0
63 27.2 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: 24.54 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampled :

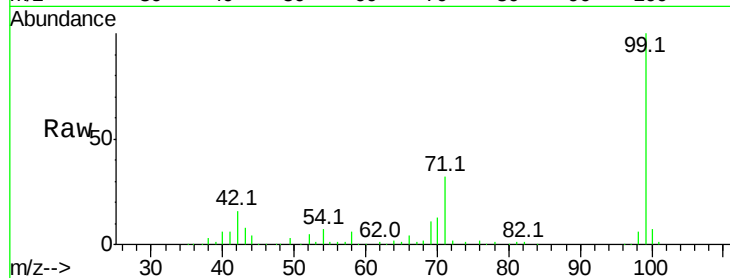
Tot Ion: 99 Resp: 207477

Ion Ratio Lower Upper

99 100

42 15.9 13.5 20.3

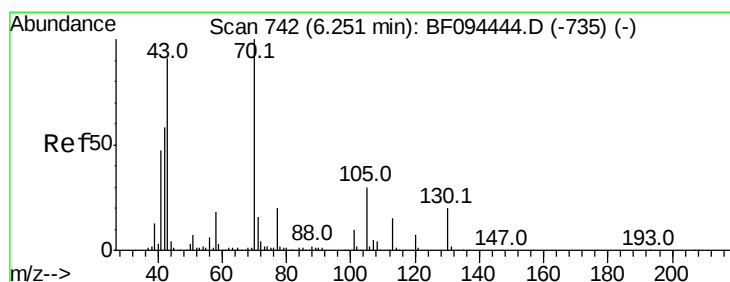
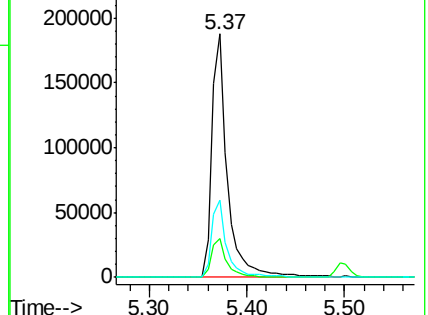
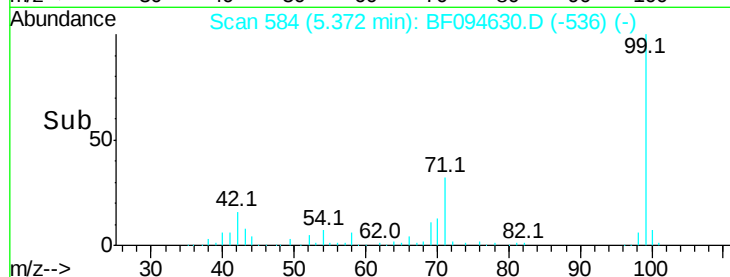
71 31.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.51 ng

RT: 6.40 min Scan# 758

Delta R.T. 0.14 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion: 70 Resp: 14088

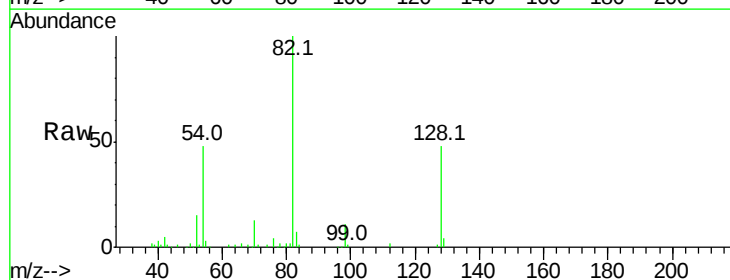
Ion Ratio Lower Upper

70 100

42 40.0 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

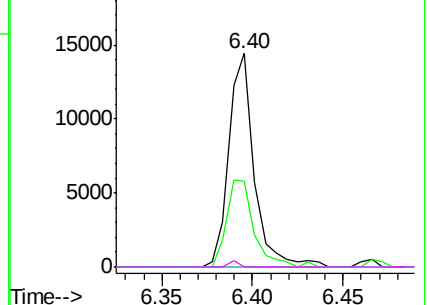
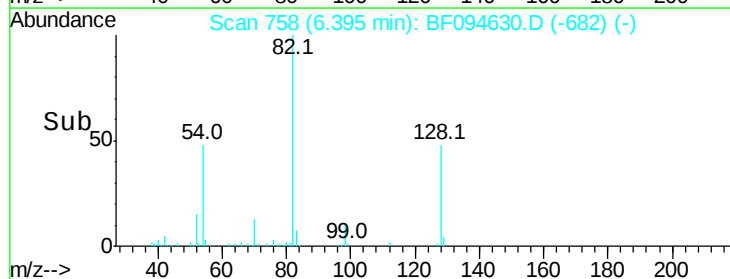


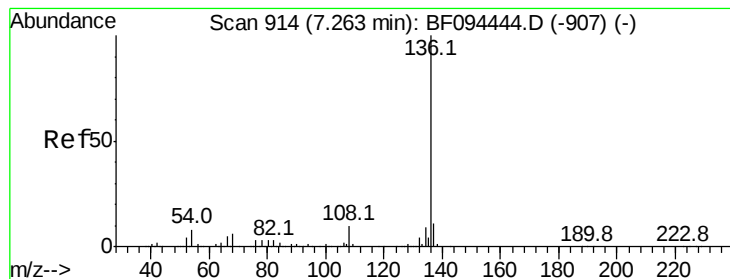
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 20.00 ng

RT: 7.25 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 462245

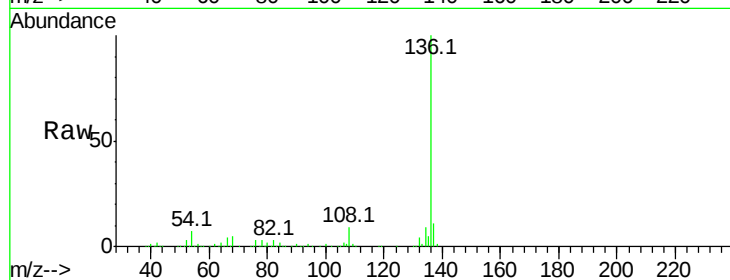
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 6.6 4.9 7.3

68 5.2 4.1 6.1

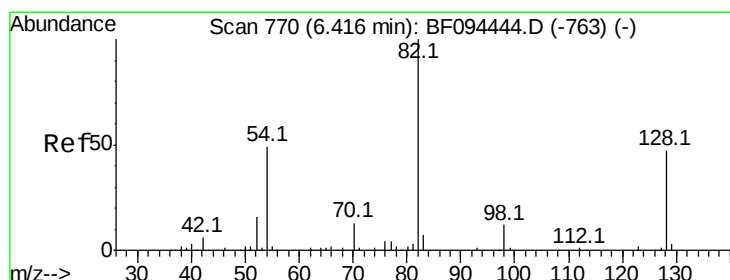
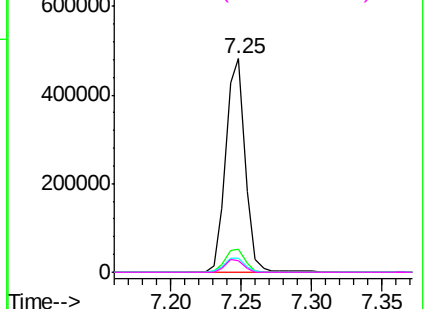
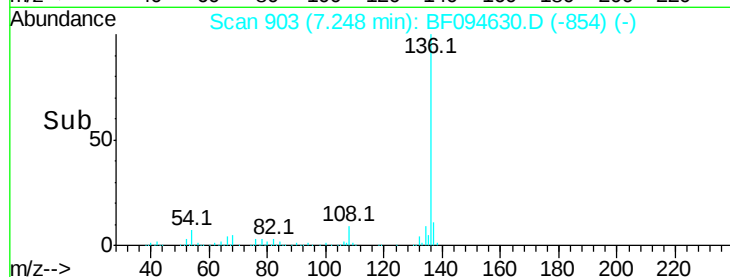


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.99 ng

RT: 6.40 min Scan# 758

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

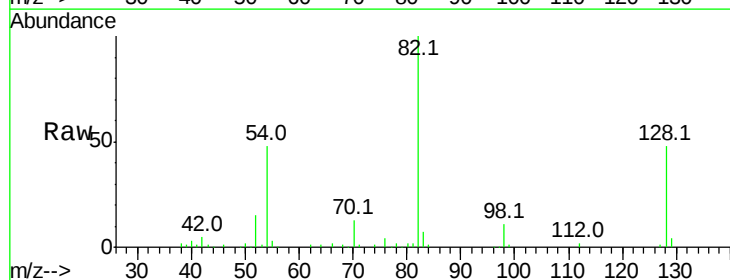
Tgt Ion: 82 Resp: 112251

Ion Ratio Lower Upper

82 100

128 48.0 34.0 51.0

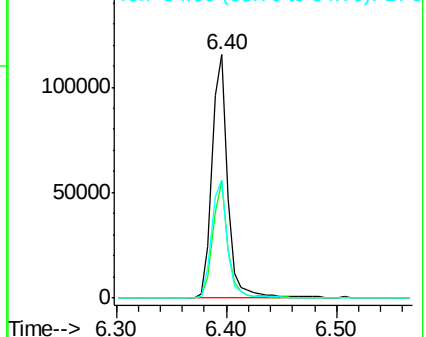
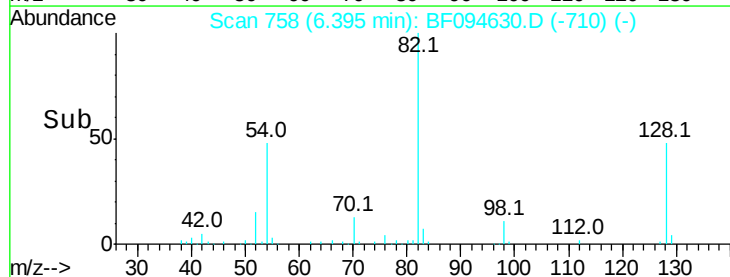
54 48.5 42.2 63.2

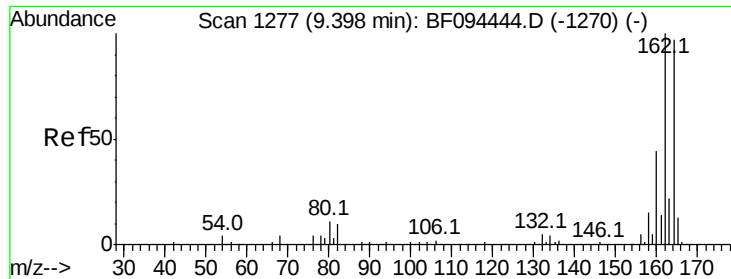


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

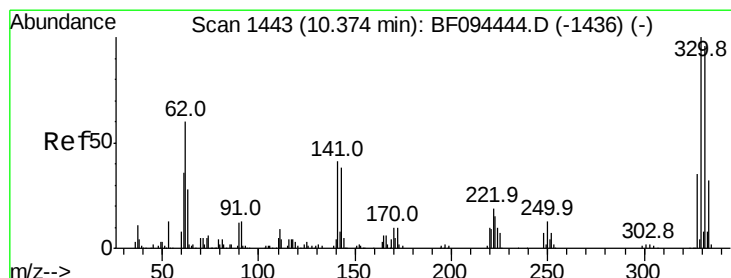
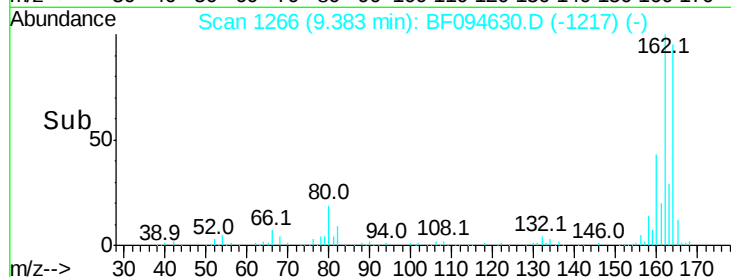
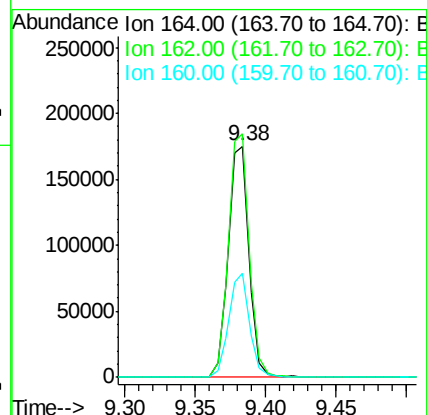
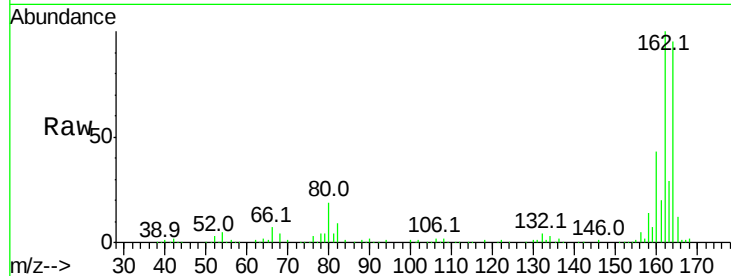




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.38 min Scan# 1266
Delta R.T. -0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

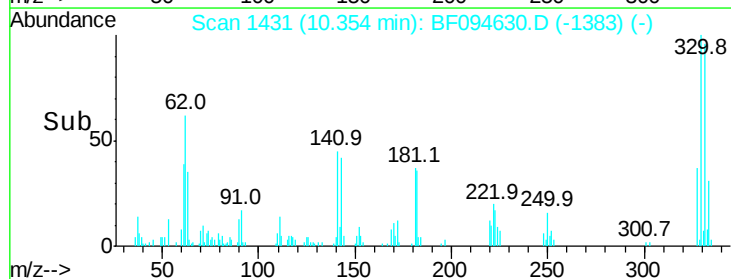
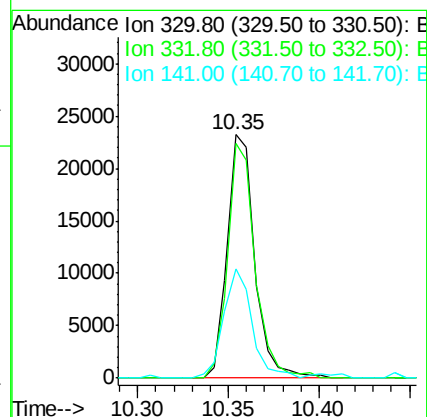
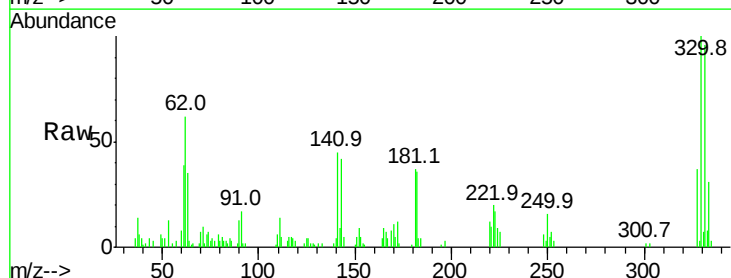
Instrument :
BNA_F
ClientSampleId :

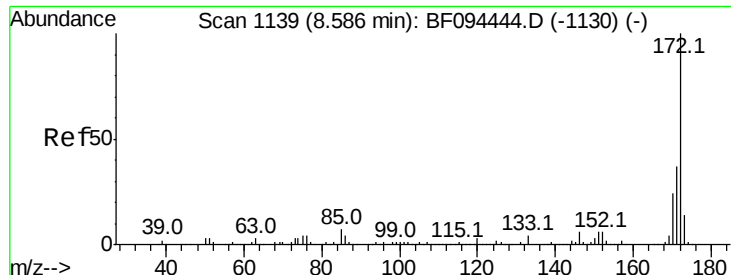
Tot Ion:164 Resp: 179191
Ion Ratio Lower Upper
164 100
162 105.5 82.6 123.8
160 44.9 36.2 54.2



#41
2,4,6-Tribromophenol
Concen: 17.60 ng
RT: 10.35 min Scan# 1431
Delta R.T. -0.02 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion:330 Resp: 24663
Ion Ratio Lower Upper
330 100
332 95.4 76.6 115.0
141 46.0 31.4 47.2

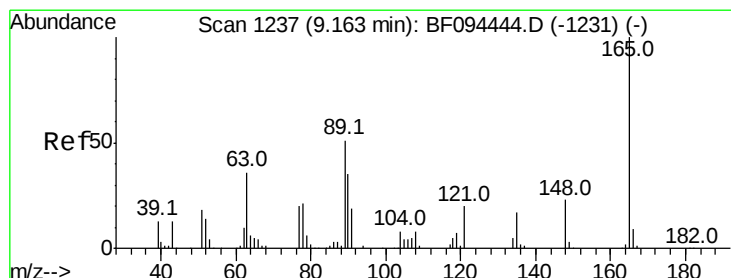
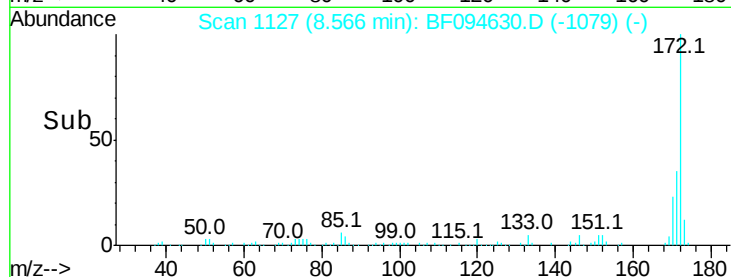
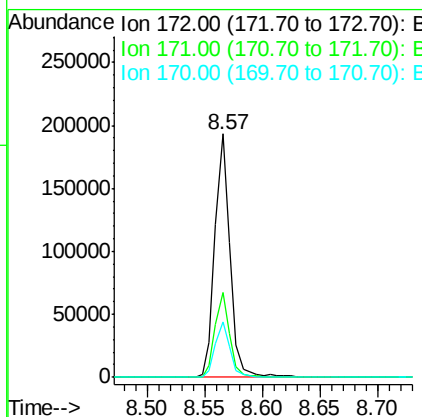
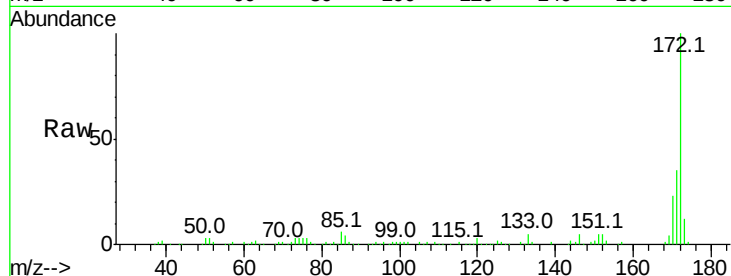




#44
 2-Fluorobiphenyl
 Concen: 14.54 ng
 RT: 8.57 min Scan# 1127
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

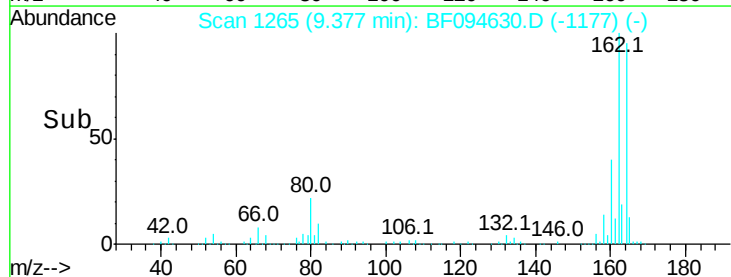
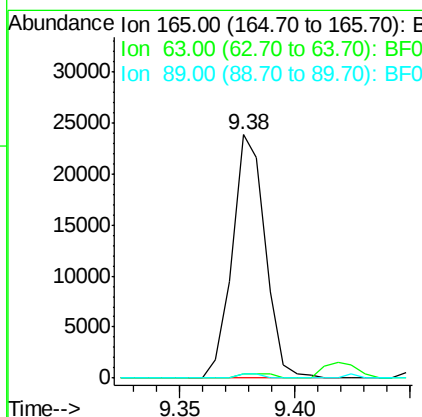
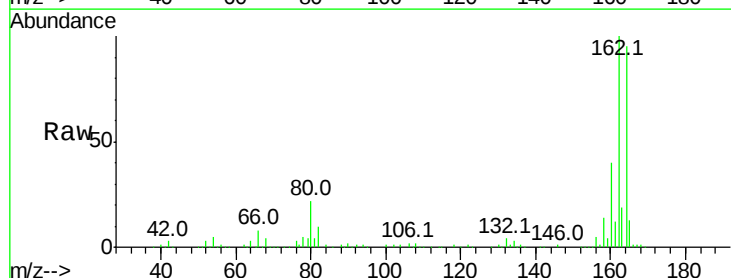
Instrument :
 BNA_F
 ClientSampled :

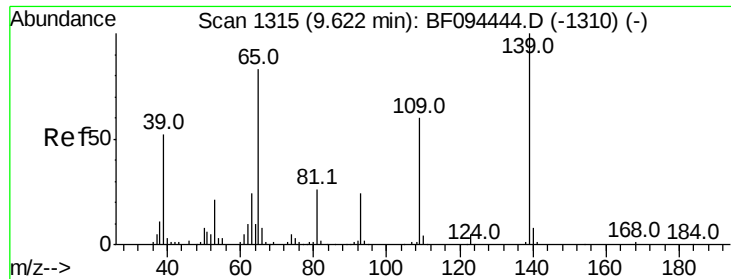
Tot Ion:172 Resp: 177120
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.6 44.4
 170 22.7 19.8 29.8



#50
 2,6-Dinitrotoluene
 Concen: 7.91 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. 0.21 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion:165 Resp: 23695
 Ion Ratio Lower Upper
 165 100
 63 1.9 34.3 51.5#
 89 1.9 37.1 55.7#

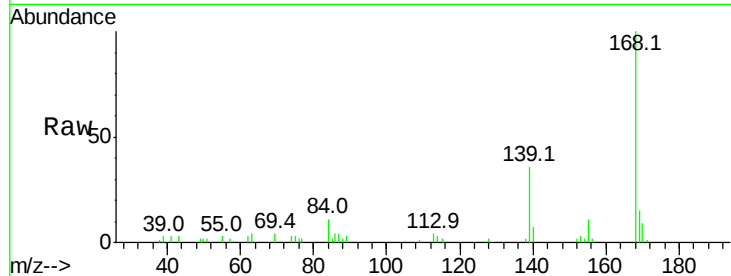




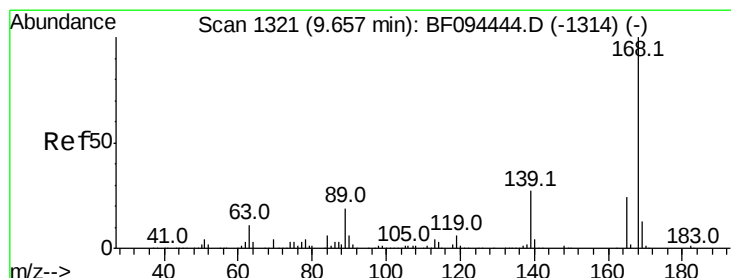
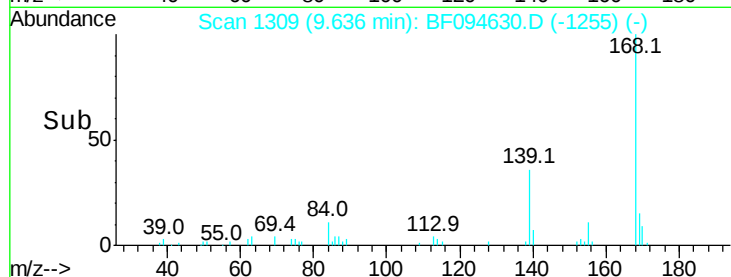
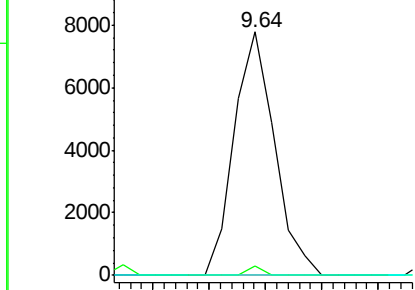
#55
4-Nitrophenol
Concen: 3.16 ng
RT: 9.64 min Scan# 1309
Delta R.T. 0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	4.0	34.1	74.1#
65	0.0	31.4	71.4#



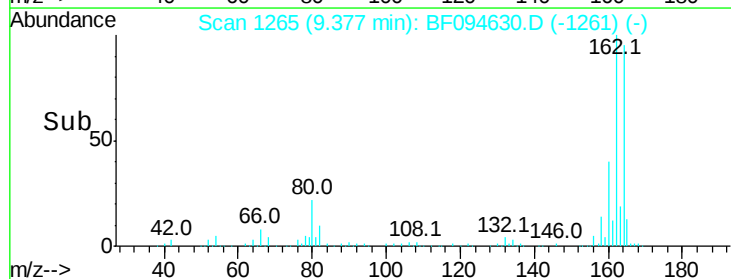
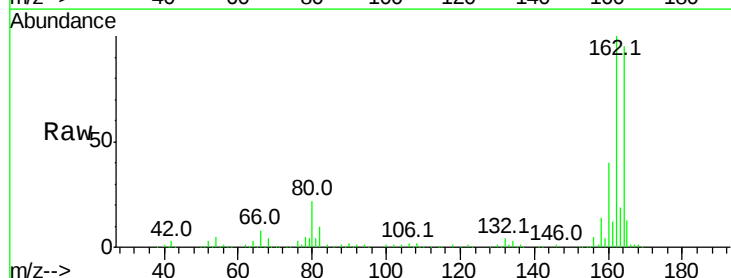
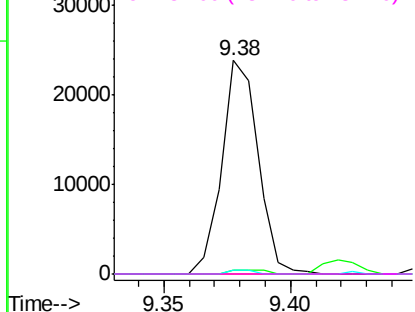
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

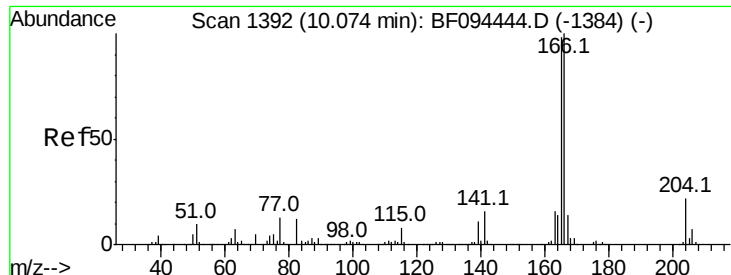


#56
2,4-Dinitrotoluene
Concen: 6.44 ng
RT: 9.38 min Scan# 1265
Delta R.T. -0.28 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.9	25.4	38.0#
89	1.9	46.4	69.6#
182	0.0	1.8	2.6#

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
Ion 182.00 (181.70 to 182.70): E

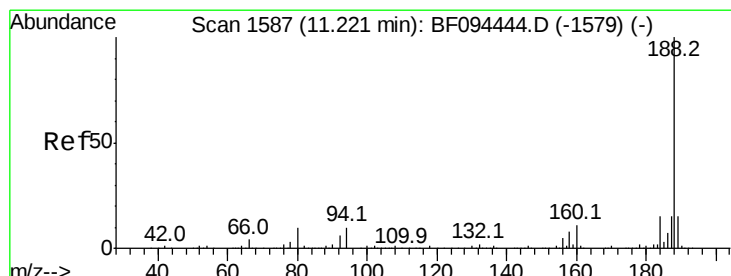
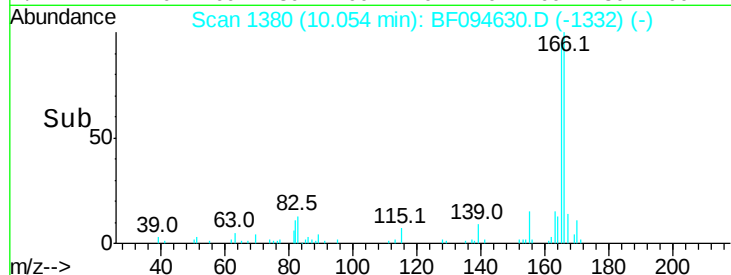
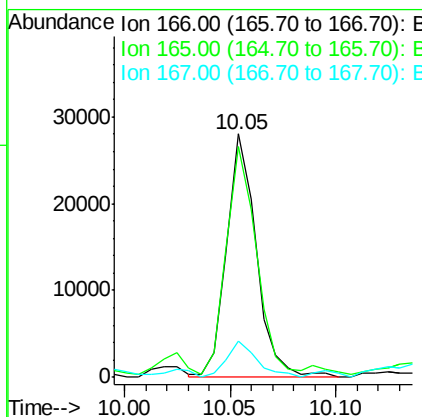
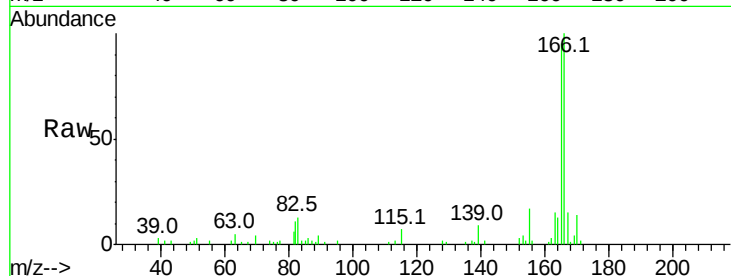




#57
Fluorene
 Concen: 2.22 ng
 RT: 10.05 min Scan# 1380
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

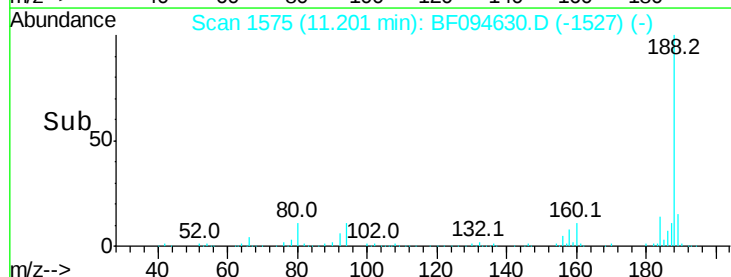
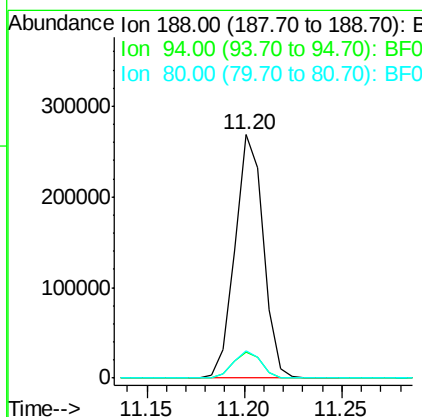
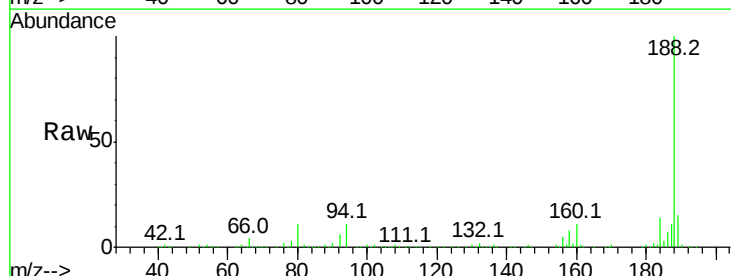
Instrument :
 BNA_F
 ClientSampleId :

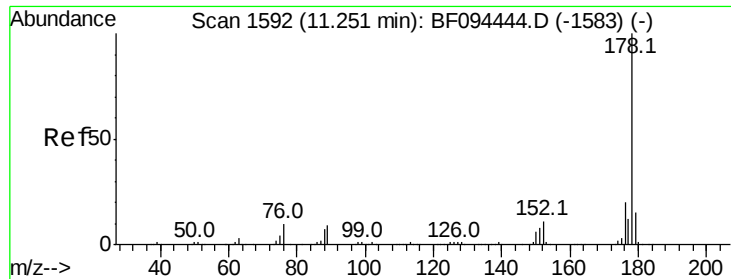
Tot Ion:166 Resp: 27337
 Ion Ratio Lower Upper
 166 100
 165 95.0 78.8 118.2
 167 14.8 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.20 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion:188 Resp: 270278
 Ion Ratio Lower Upper
 188 100
 94 10.9 9.4 14.2
 80 11.3 10.2 15.2

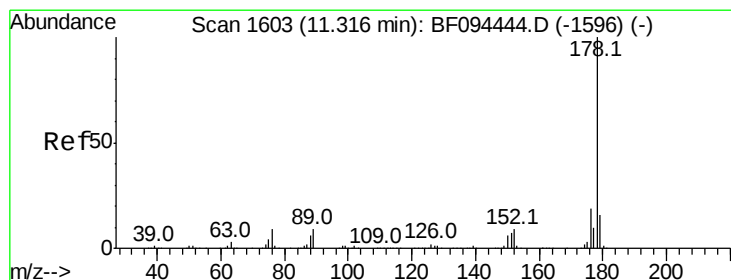
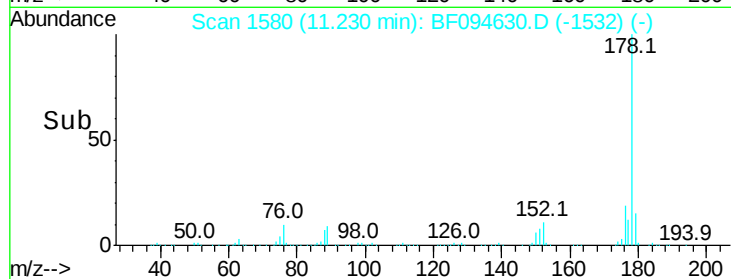
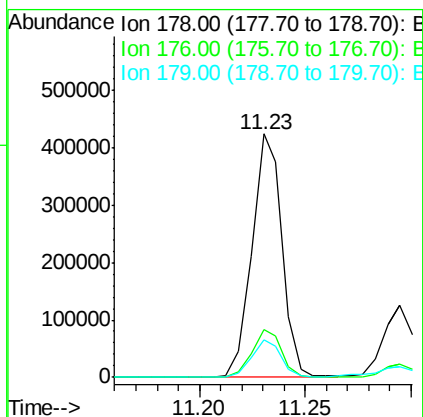
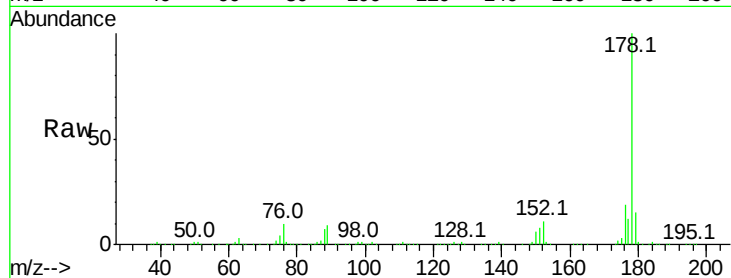




#70
Phenanthrene
Concen: 27.52 ng
RT: 11.23 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

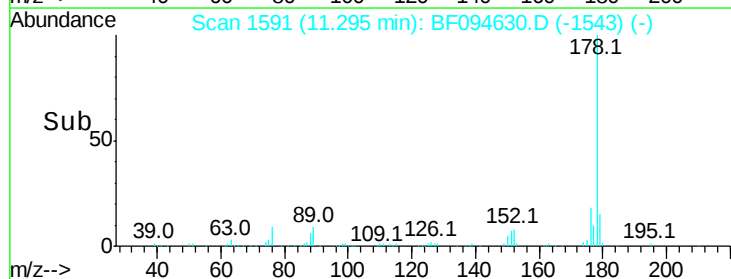
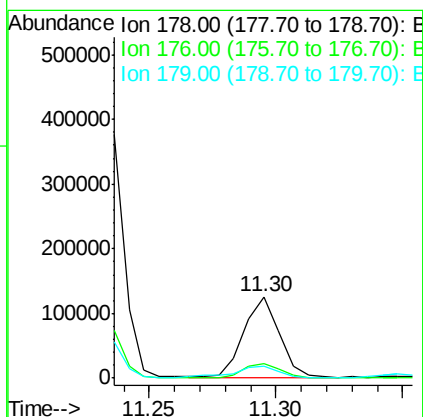
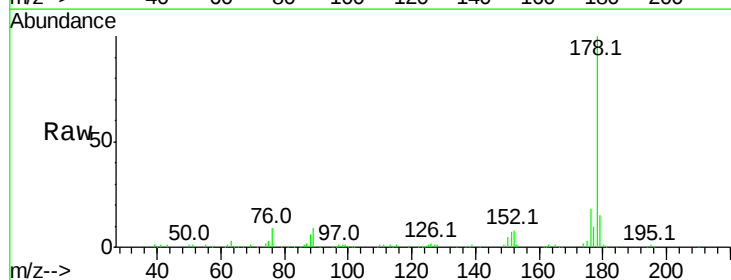
Instrument :
BNA_F
ClientSampleId :

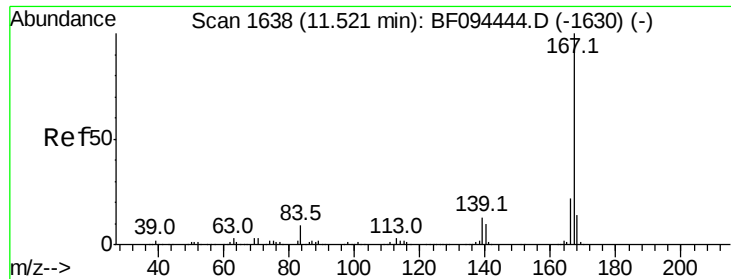
Tot Ion:178 Resp: 418858
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.4 12.6 19.0



#71
Anthracene
Concen: 7.75 ng
RT: 11.30 min Scan# 1591
Delta R.T. -0.02 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion:178 Resp: 121984
Ion Ratio Lower Upper
178 100
176 18.1 15.8 23.8
179 15.4 12.7 19.1





#72

Carbazole

Concen: 2.66 ng

RT: 11.51 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

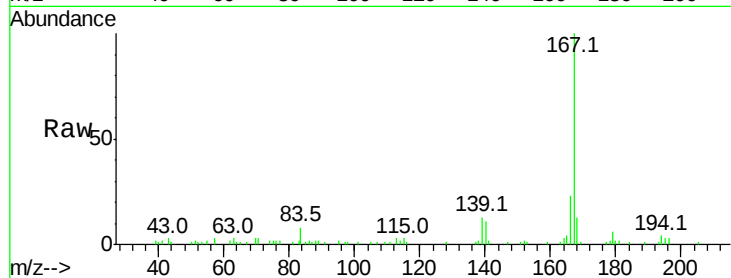
Instrument :

BNA_F

ClientSampleId :

Tot Ion:167 Resp: 39297

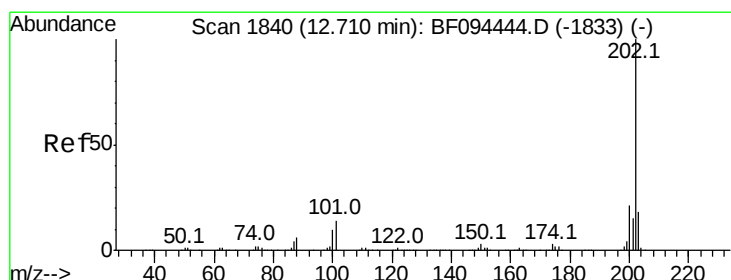
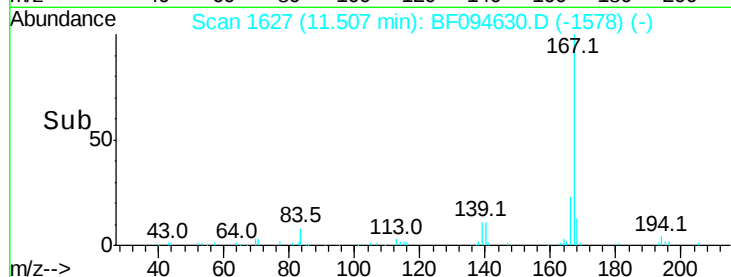
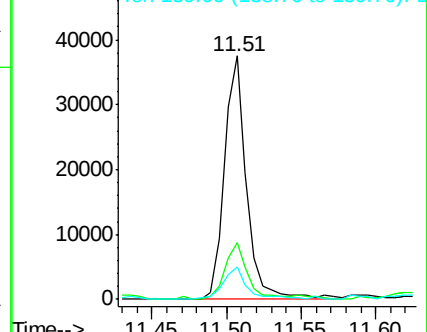
Ion	Ratio	Lower	Upper
167	100		
166	23.3	18.1	27.1
139	13.3	11.7	17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 51.06 ng

RT: 12.70 min Scan# 1830

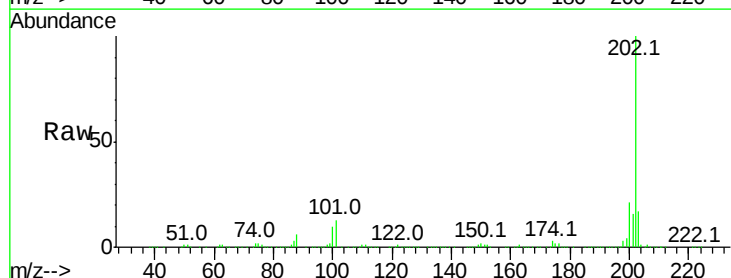
Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion:202 Resp: 805429

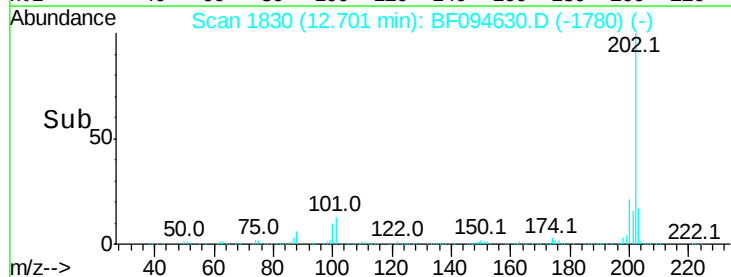
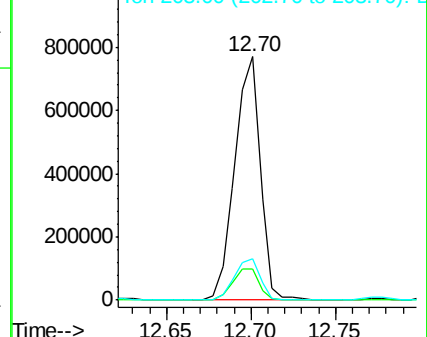
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.2
203	17.0	0.0	38.1

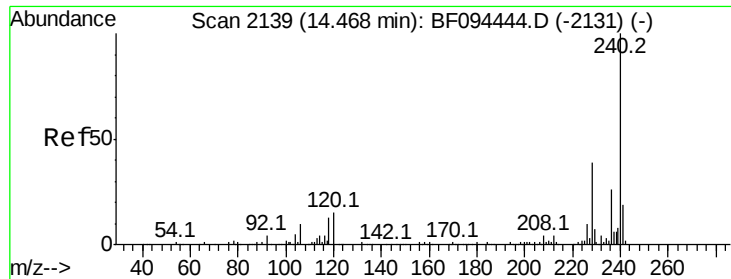


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

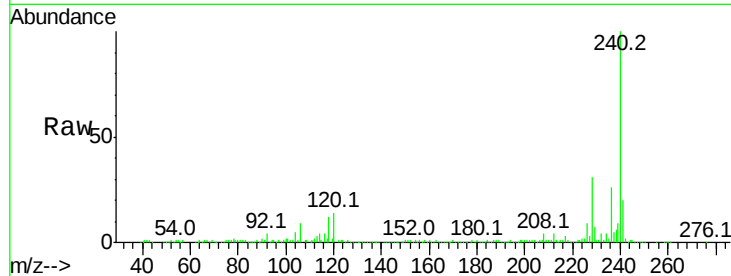
Tot Ion:240 Resp: 241405

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

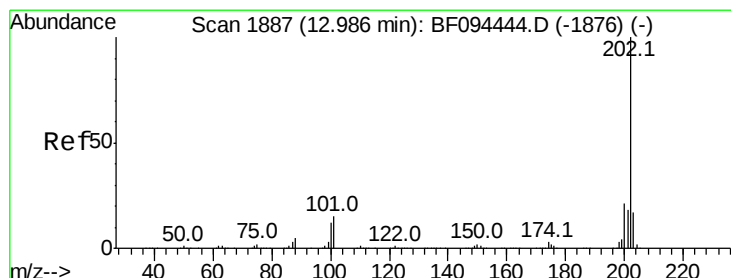
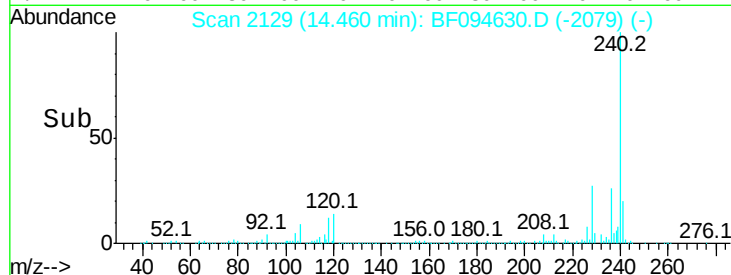
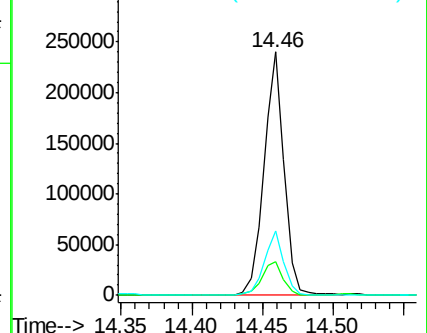
236 26.2 20.5 30.7



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



#77

Pyrene

Concen: 48.18 ng

RT: 12.98 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

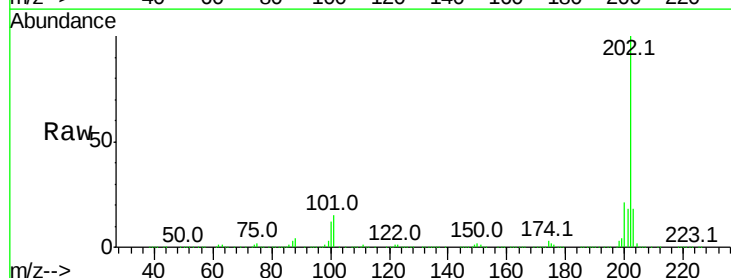
Tgt Ion:202 Resp: 812669

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

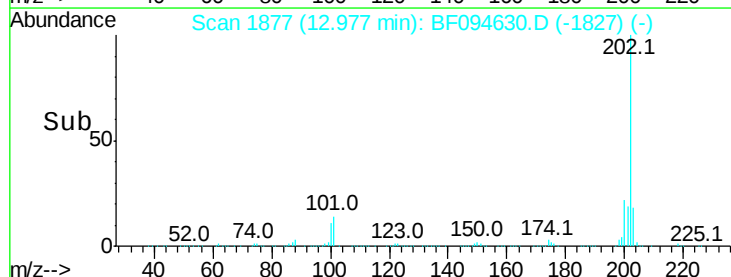
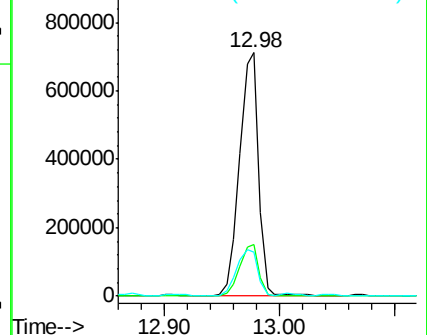
203 18.1 14.4 21.6

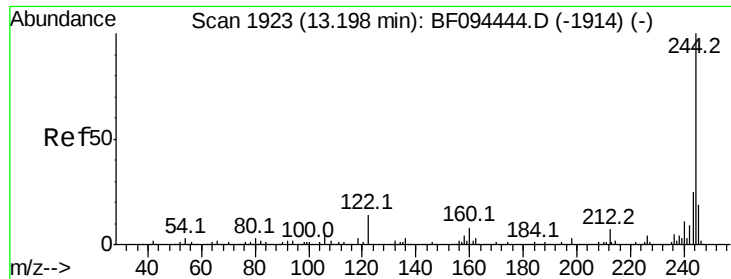


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

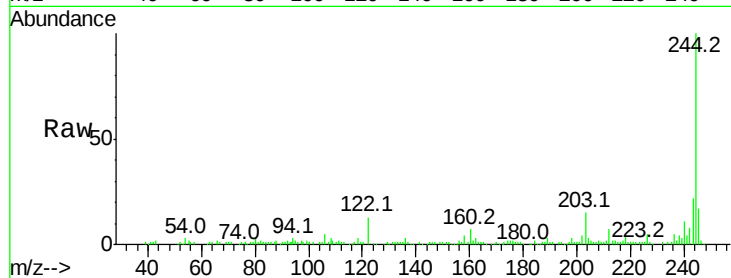




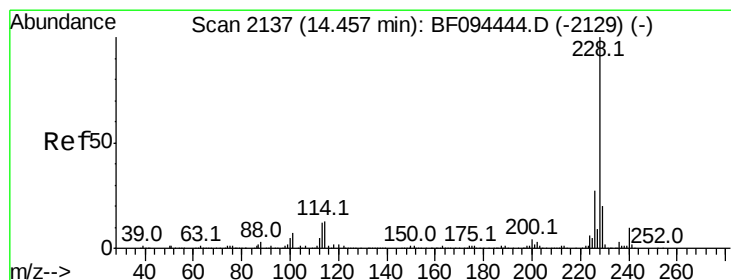
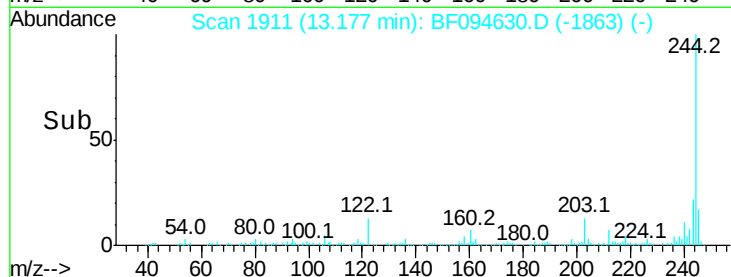
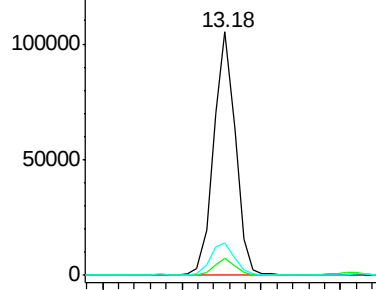
#78
 Terphenyl-d14
 Concen: 11.03 ng
 RT: 13.18 min Scan# 1911
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:244 Resp: 99657
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 13.3 10.3 15.5

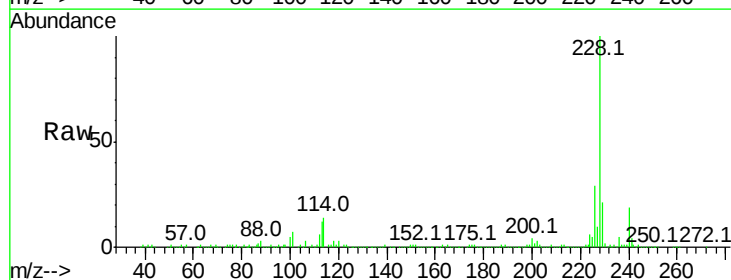


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

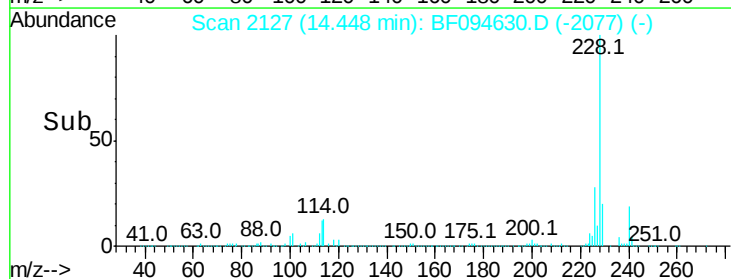
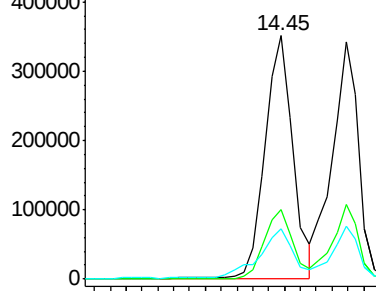


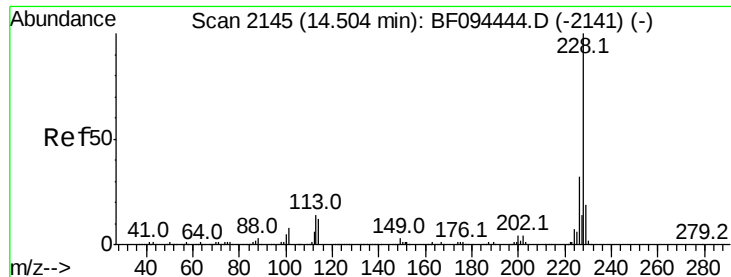
#80
 Benzo(a)anthracene
 Concen: 30.36 ng
 RT: 14.45 min Scan# 2127
 Delta R.T. -0.01 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion:228 Resp: 425980
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.6 33.8
 229 20.6 16.3 24.5



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



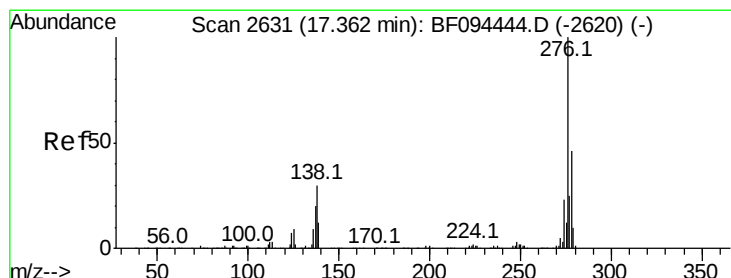
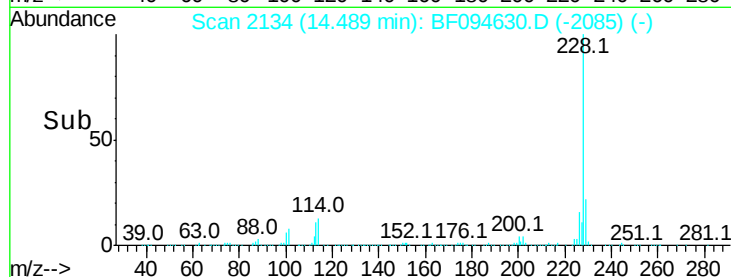
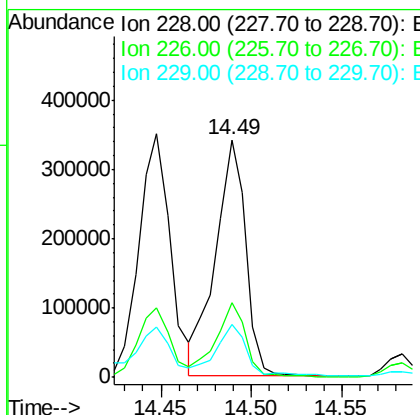
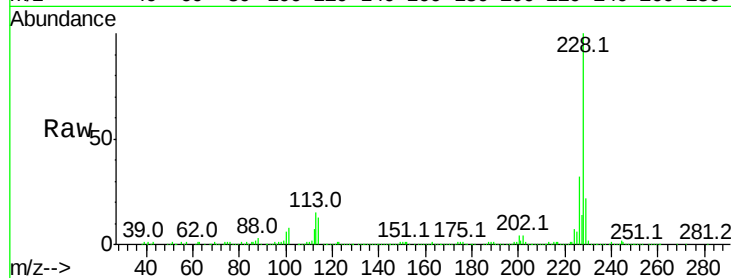


#82
 Chrysene
 Concen: 31.02 ng
 RT: 14.49 min Scan# 2134
 Delta R.T. -0.01 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:228 Resp: 397794

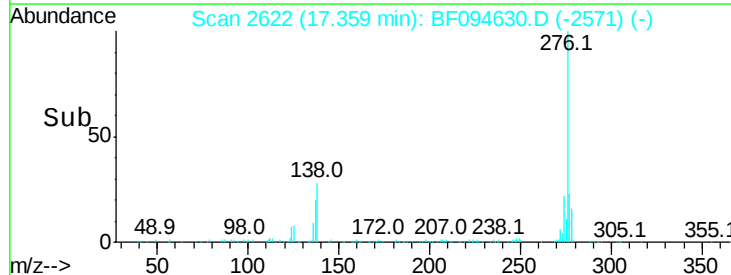
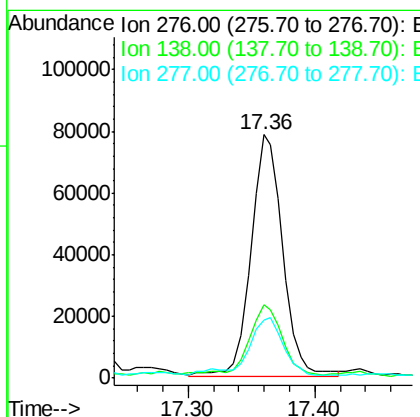
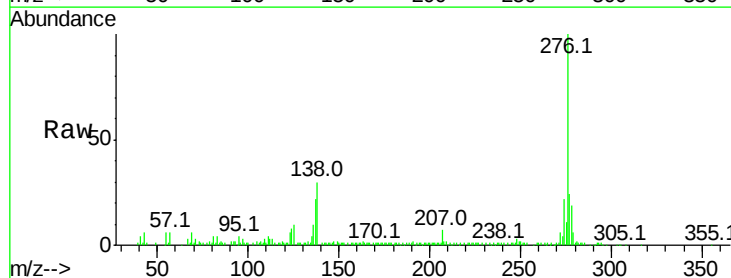
Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	22.2	15.8	23.6

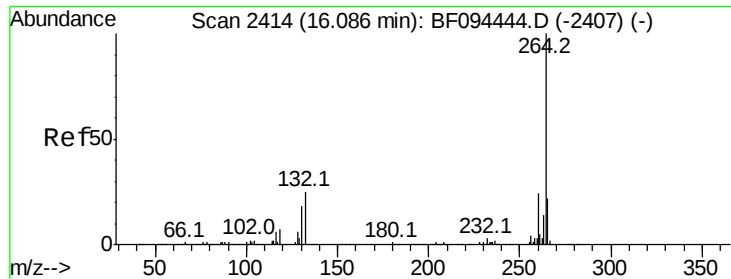


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.23 ng
 RT: 17.36 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion:276 Resp: 137060

Ion	Ratio	Lower	Upper
276	100		
138	28.8	27.8	41.6
277	24.1	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.08 min Scan# 2405

Delta R.T. -0.00 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

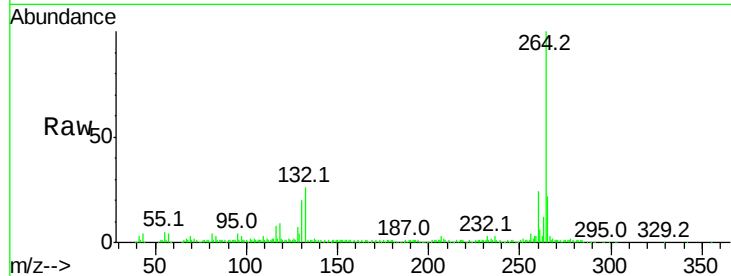
Tot Ion:264 Resp: 172288

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

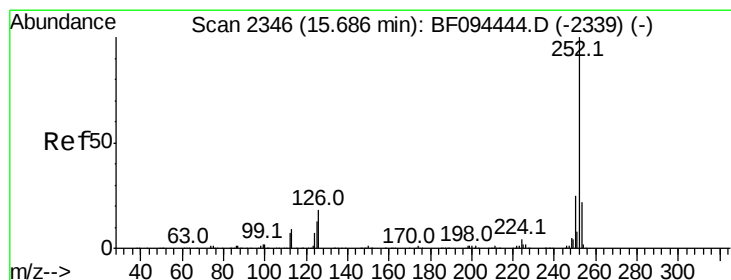
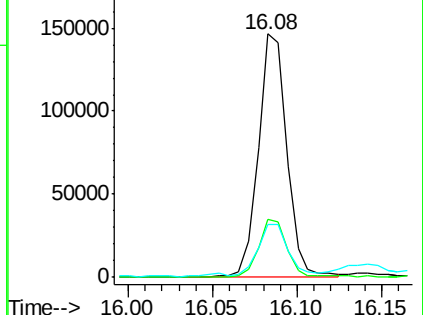
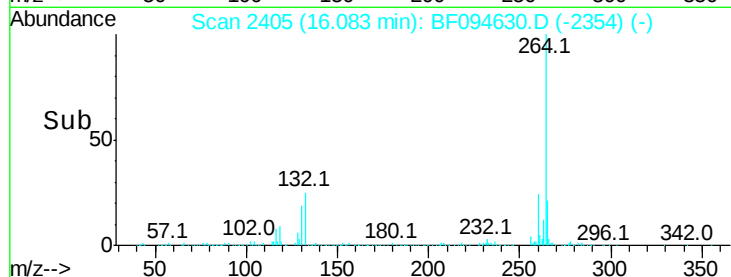
265 21.7 17.2 25.8



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: 48.53 ng

RT: 15.69 min Scan# 2338

Delta R.T. 0.00 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

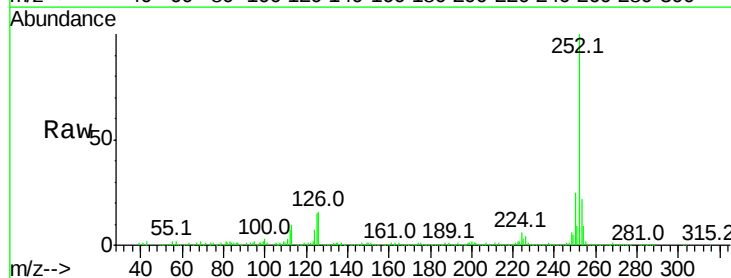
Tgt Ion:252 Resp: 511482

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

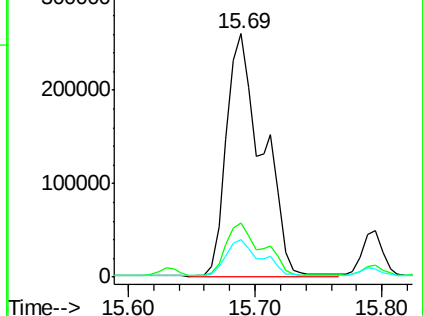
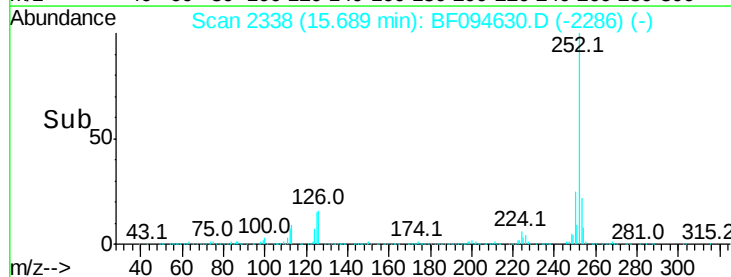
125 15.3 9.8 14.8#

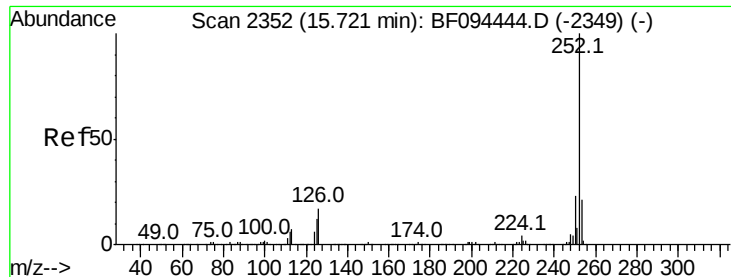


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 51.28 ng

RT: 15.69 min Scan# 2338

Delta R.T. -0.03 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

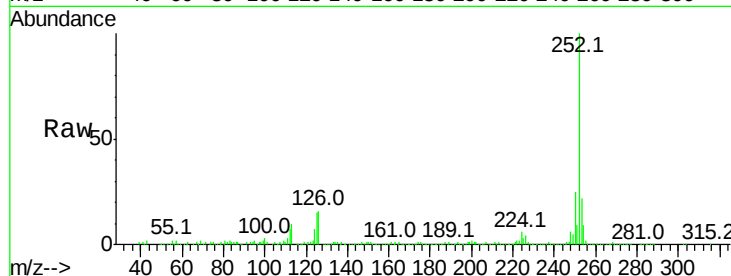
Tot Ion:252 Resp: 511482

Ion Ratio Lower Upper

252 100

253 22.2 18.4 27.6

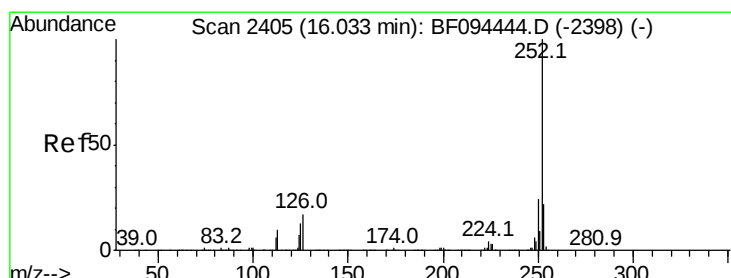
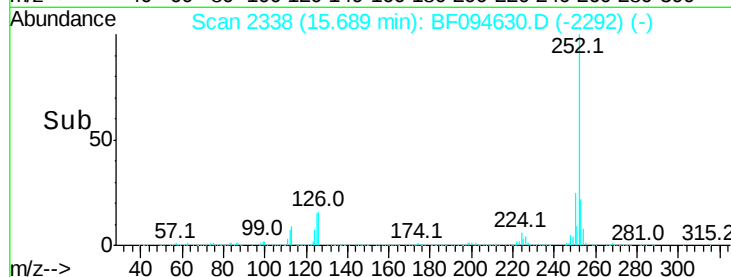
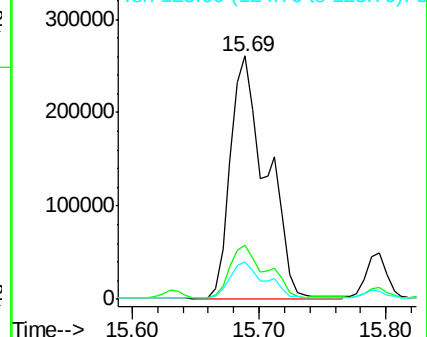
125 15.3 13.1 19.7



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: 26.15 ng

RT: 16.03 min Scan# 2396

Delta R.T. -0.00 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

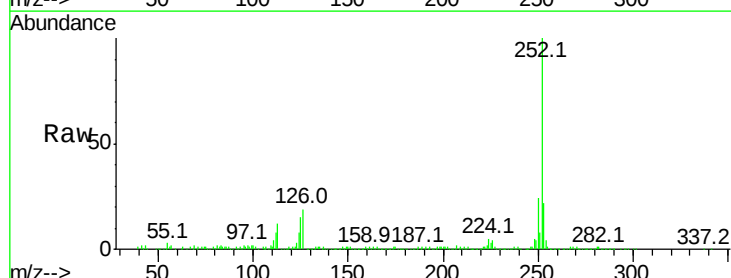
Tgt Ion:252 Resp: 256413

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

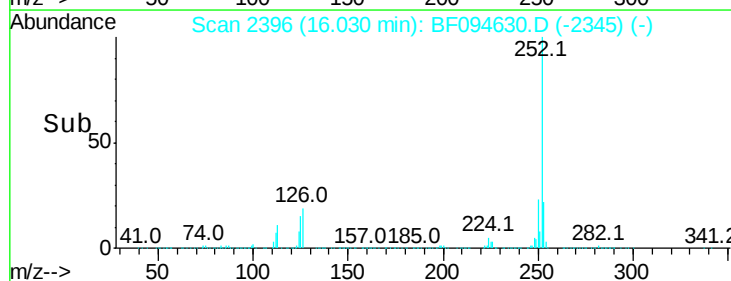
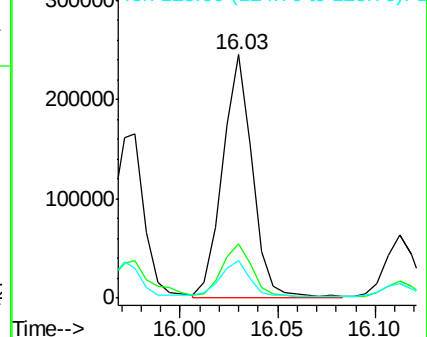
125 15.2 11.0 16.4

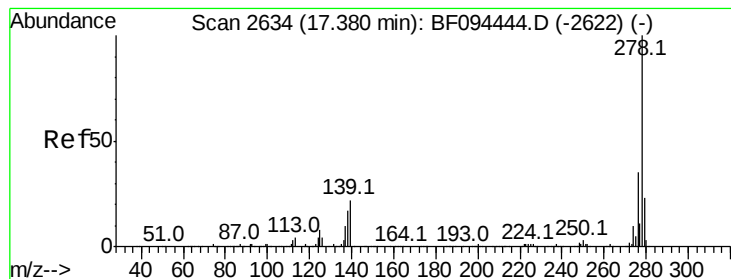


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.59 ng

RT: 17.37 min Scan# 2624

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

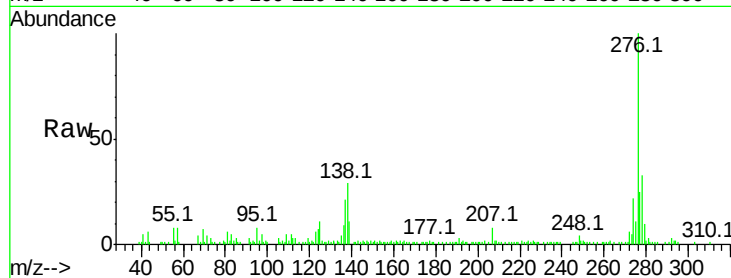
Tot Ion:278 Resp: 37384

Ion Ratio Lower Upper

278 100

139 33.6 16.6 24.8#

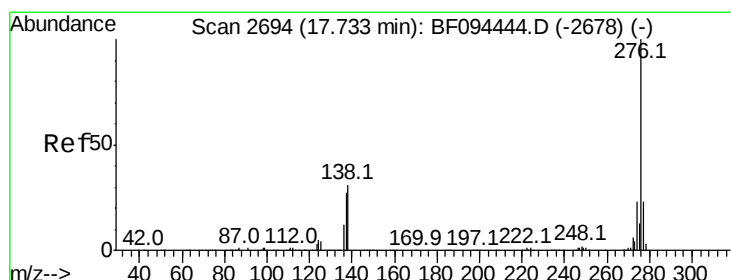
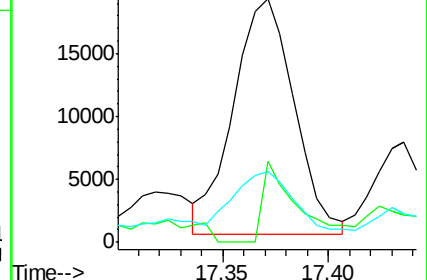
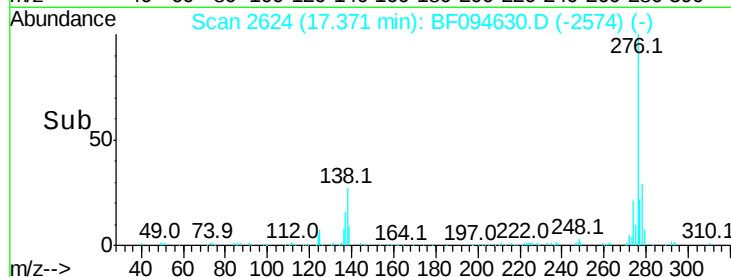
279 29.0 19.3 28.9#



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: 15.14 ng

RT: 17.74 min Scan# 2686

Delta R.T. 0.00 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

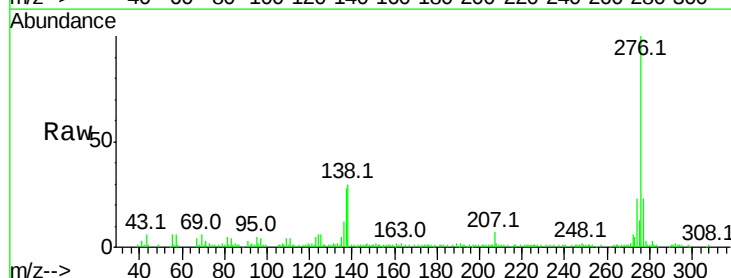
Tgt Ion:276 Resp: 125486

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 30.4 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

