

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041018\
 Data File : BF104422.D
 Acq On : 10 Apr 2018 22:05
 Operator : JU/SJ
 Sample : J2270-03DL 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 11 00:57:18 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 10 12:04:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	138766	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	549038	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	226184	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	334406	20.00	ng	0.00
75) Chrysene-d12	13.98	240	272727	20.00	ng	0.00
86) Perylene-d12	15.45	264	199892	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	453448	49.97	ng	0.00
7) Phenol-d6	6.43	99	557307	49.98	ng	-0.01
23) Nitrobenzene-d5	7.37	82	327514	38.95	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	98156	41.83	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	473584	33.08	ng	0.00
78) Terphenyl-d14	12.92	244	312909	26.16	ng	0.00

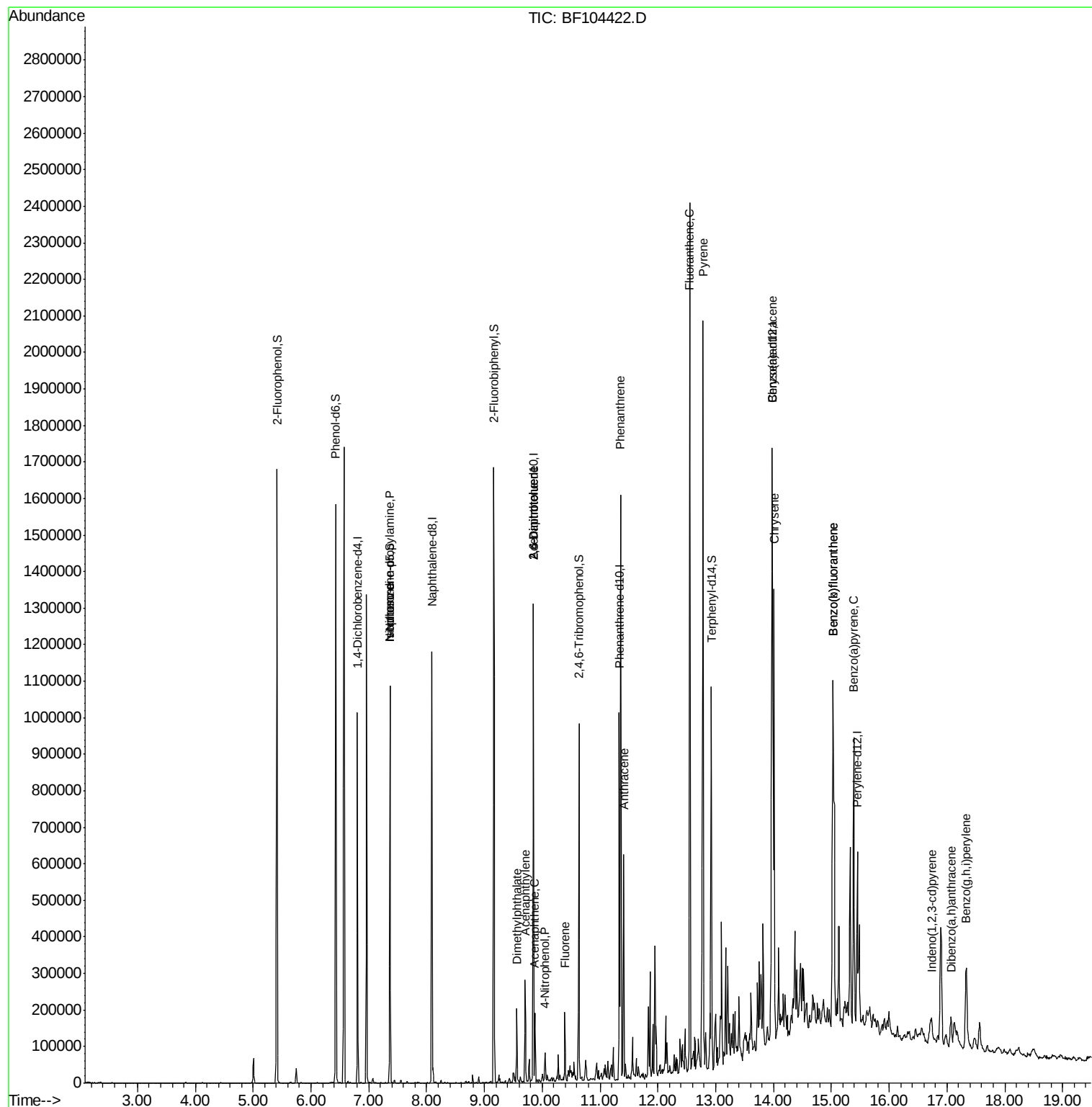
Target Compounds				Qvalue		
9) Benzaldehyde	6.43	77	782	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.37	70	42146	5.784	ng	# 72
25) Isophorone	7.37	82	327164	18.400	ng	# 64
48) Acenaphthylene	9.70	152	110345	4.686	ng	97
49) Dimethylphthalate	9.56	163	66468	3.727	ng	100
50) 2,6-Dinitrotoluene	9.85	165	29634	8.979	ng	# 25
51) Acenaphthene	9.87	154	36848	2.565	ng	99
55) 4-Nitrophenol	10.05	139	9653	3.180	ng	# 10
56) 2,4-Dinitrotoluene	9.85	165	29634	6.845	ng	# 23
57) Fluorene	10.39	166	47423	3.254	ng	100
70) Phenanthrene	11.36	178	558265	29.977	ng	100
71) Anthracene	11.41	178	215476	11.383	ng	98
74) Fluoranthene	12.55	202	907935	46.663	ng	99
76) Benzidine	12.68	184	216	Below Cal	#	66
77) Pyrene	12.78	202	819340	40.530	ng	99
80) Benzo(a)anthracene	13.97	228	520039	31.918	ng	96
82) Chrysene	14.01	228	465741	27.830	ng	97
85) Indeno(1,2,3-cd)pyrene	16.74	276	38922	2.738	ng	96
87) Benzo(b)fluoranthene	15.03	252	733736	58.118	ng	96
88) Benzo(k)fluoranthene	15.03	252	733736	61.560	ng	99
89) Benzo(a)pyrene	15.39	252	368280	32.602	ng	96
90) Dibenzo(a,h)anthracene	17.07	278	48198	5.195	ng	95
91) Benzo(g,h,i)perylene	17.33	276	176347	19.620	ng	96

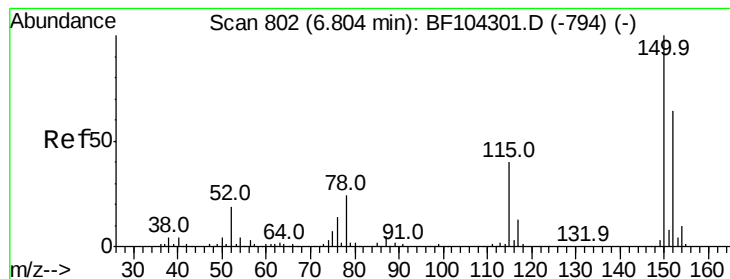
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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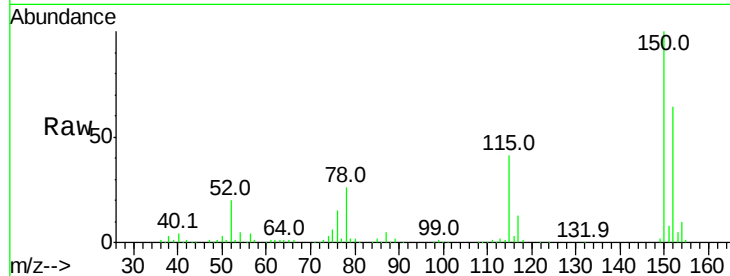


#1

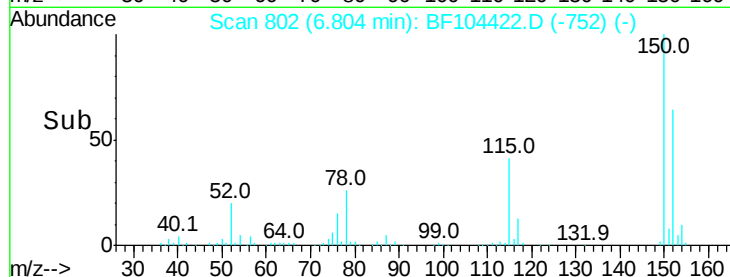
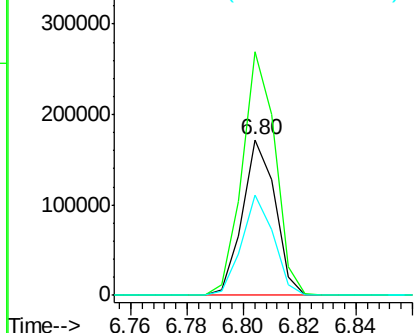
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 138766
Ion Ratio Lower Upper
152 100
150 156.6 124.6 186.8
115 64.3 50.1 75.1



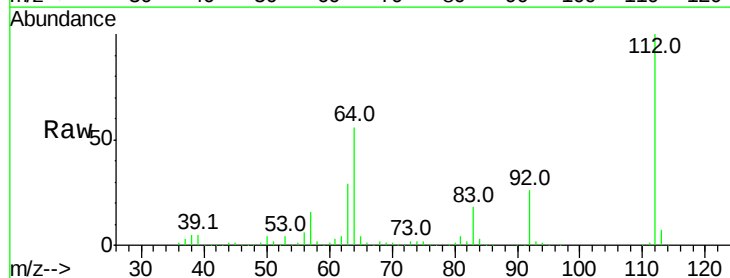
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



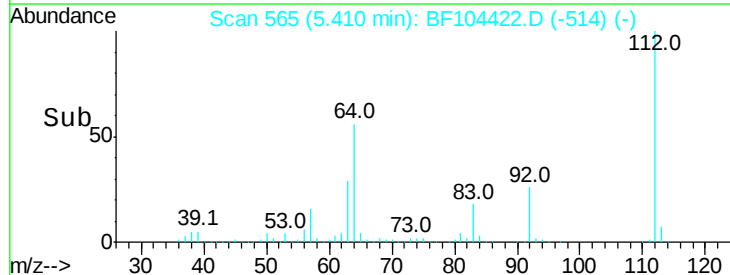
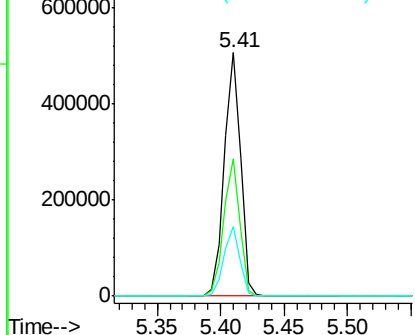
#5

2-Fluorophenol
Concen: 49.965 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.00 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Tgt Ion:112 Resp: 453448
Ion Ratio Lower Upper
112 100
64 56.2 47.9 71.9
63 28.6 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 49.980 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

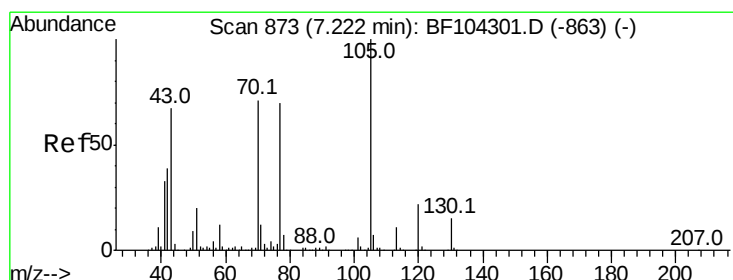
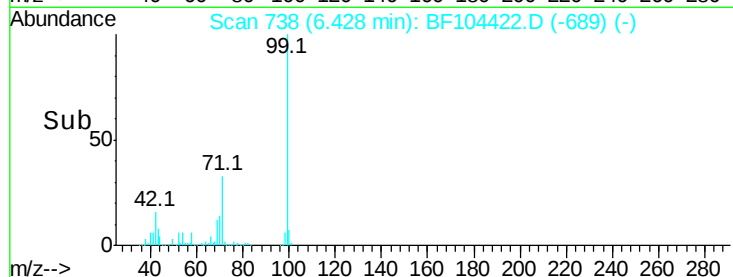
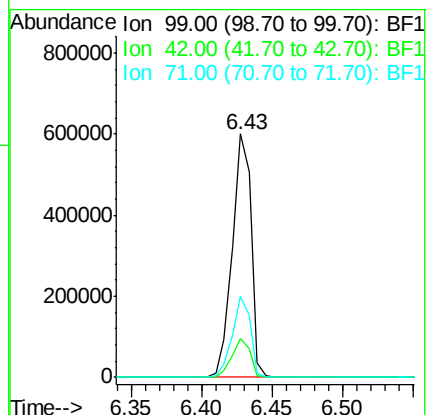
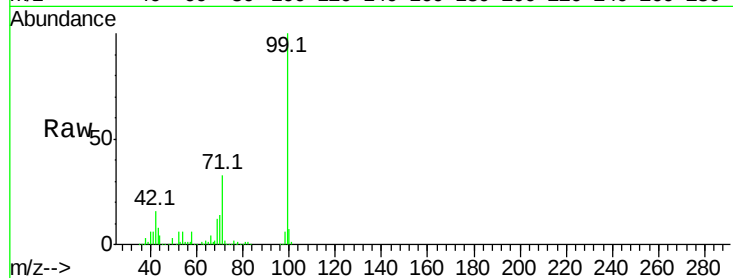
Tot Ion: 99 Resp: 557307

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

71 33.1 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 5.784 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.14 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Tgt Ion: 70 Resp: 42146

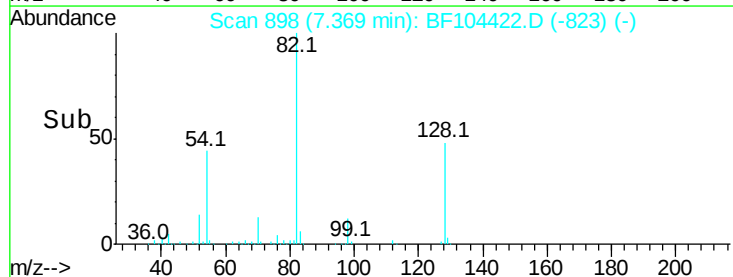
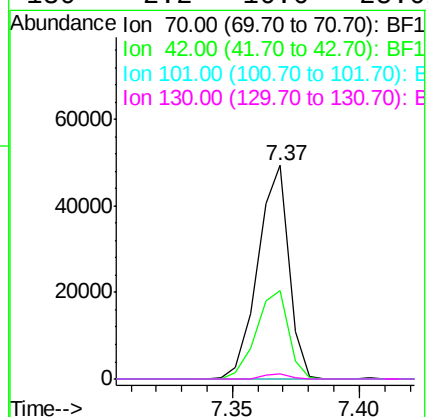
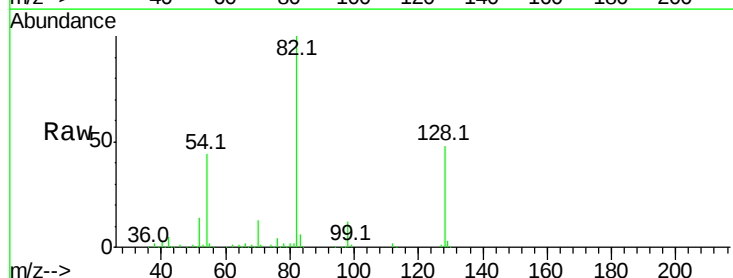
Ion Ratio Lower Upper

70 100

42 41.2 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 549038

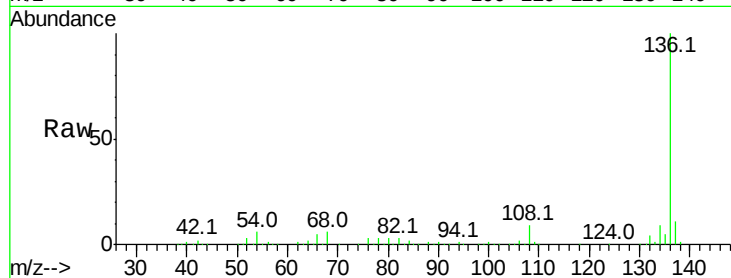
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 6.3 6.6 9.8#

68 5.7 5.0 7.4

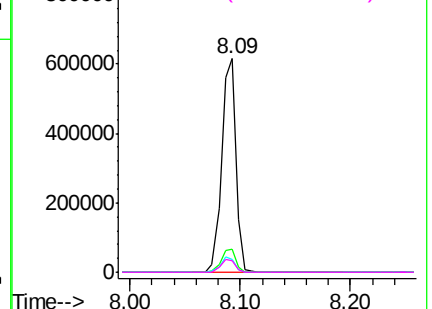
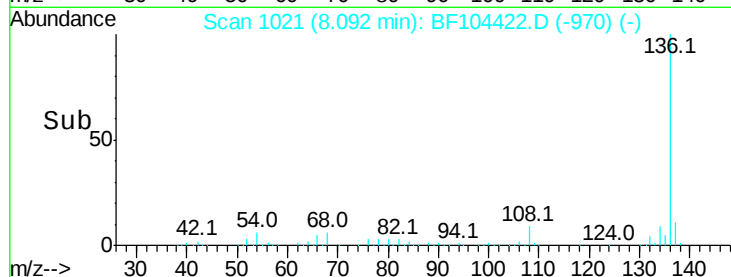


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 38.952 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

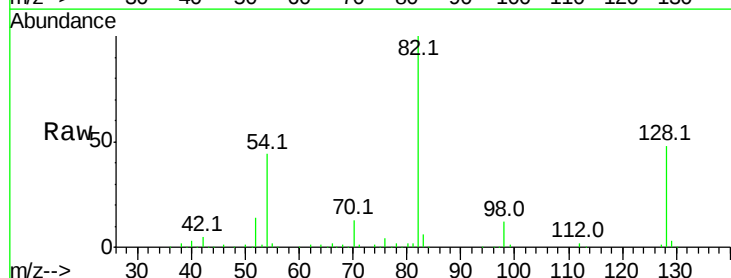
Tgt Ion: 82 Resp: 327514

Ion Ratio Lower Upper

82 100

128 48.1 36.1 54.1

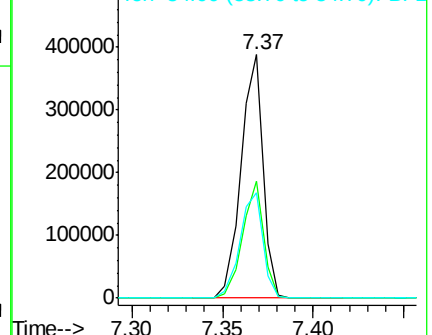
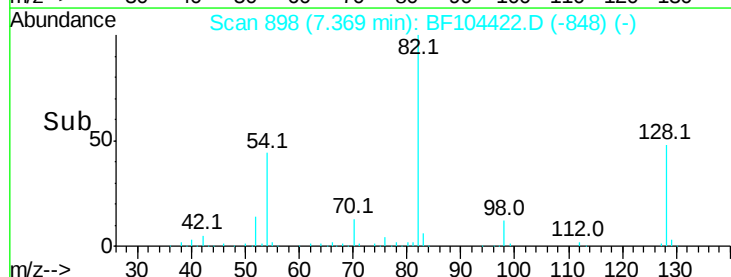
54 43.5 41.4 62.2

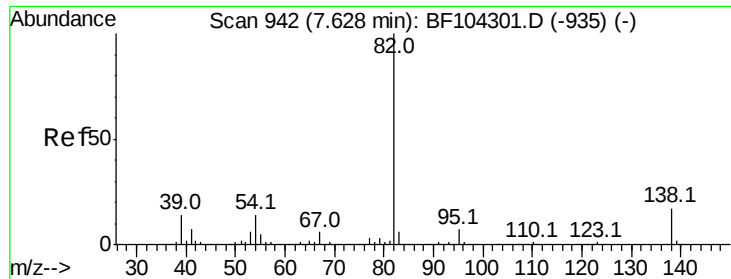


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 18.400 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

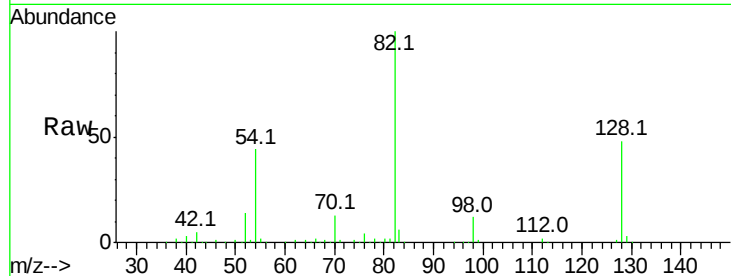
Tot Ion: 82 Resp: 327164

Ion Ratio Lower Upper

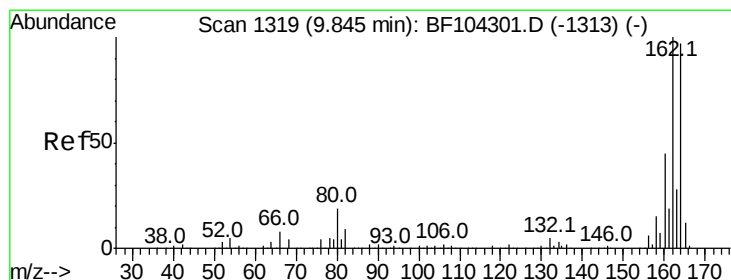
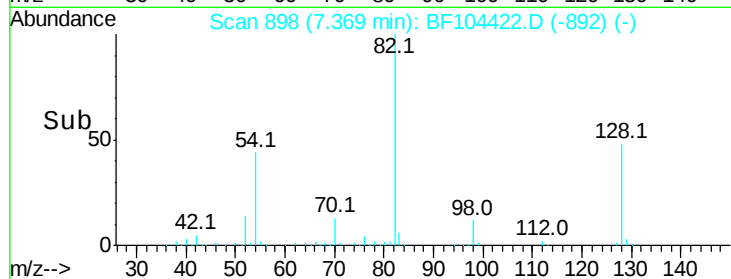
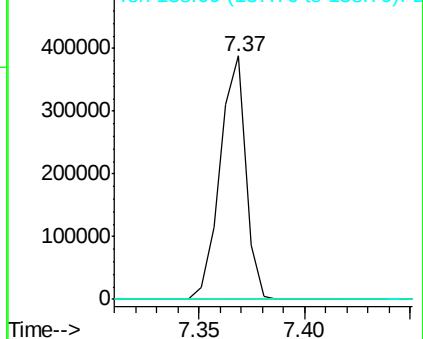
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

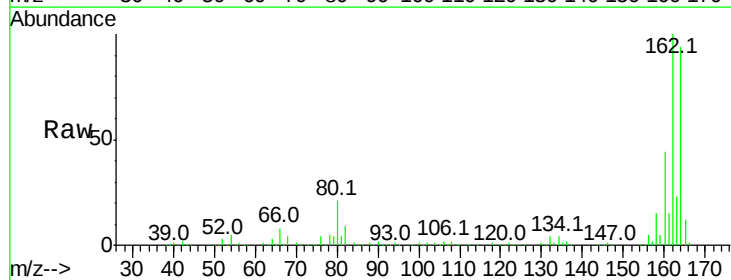
Tgt Ion: 164 Resp: 226184

Ion Ratio Lower Upper

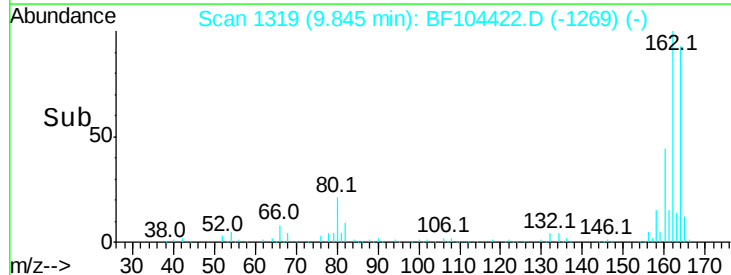
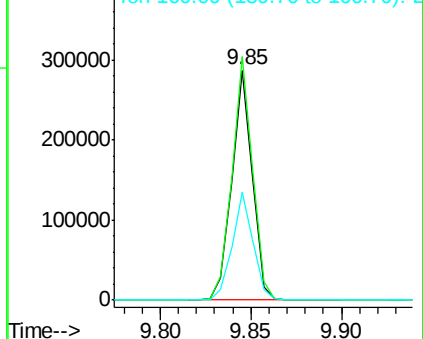
164 100

162 105.9 86.1 129.1

160 46.9 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

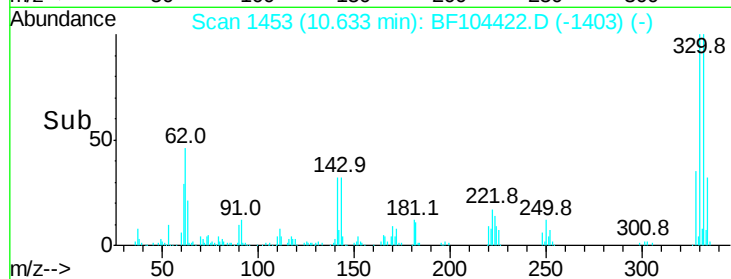
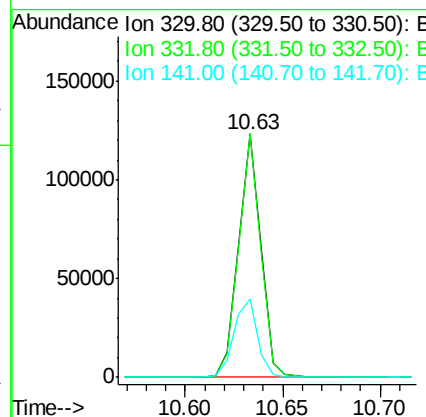
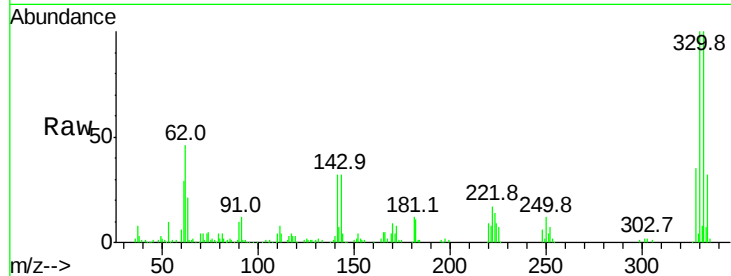




#41
 2,4,6-Tribromophenol
 Concen: 41.835 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

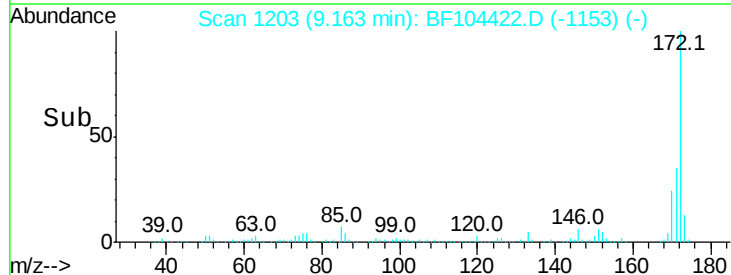
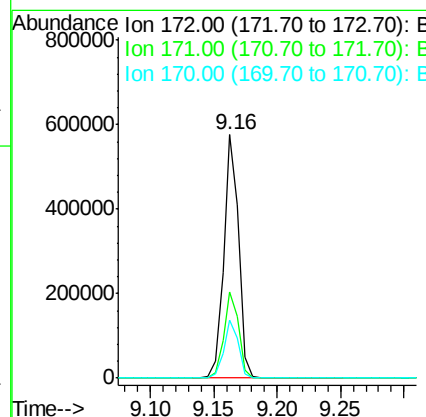
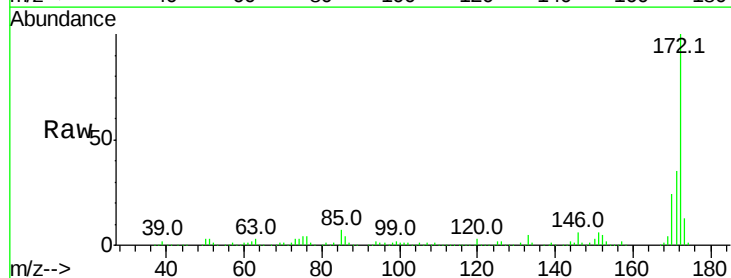
Instrument :
 BNA_F
 ClientSampleId :

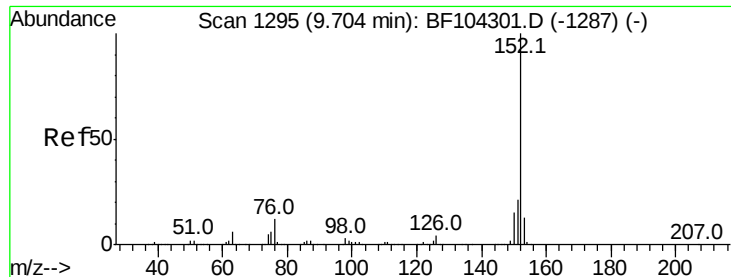
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.0	115.6
141	34.3	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 33.077 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	23.7	19.6	29.4





#48

Acenaphthylene

Concen: 4.686 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

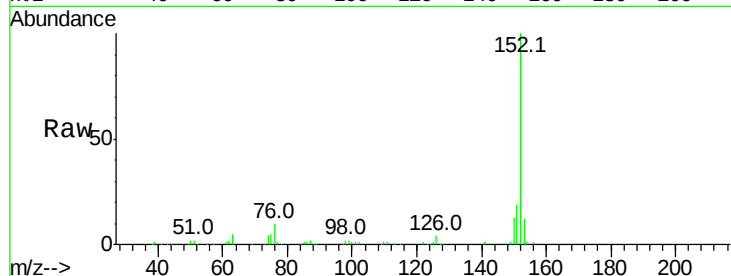
Tot Ion:152 Resp: 110345

Ion Ratio Lower Upper

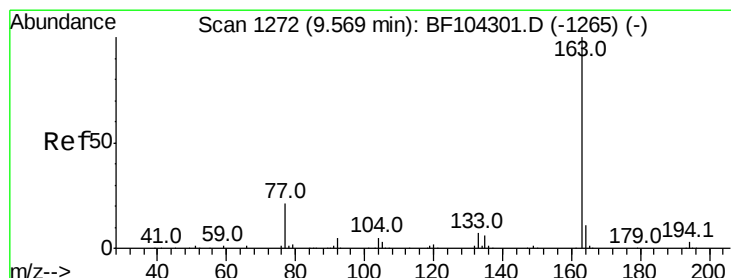
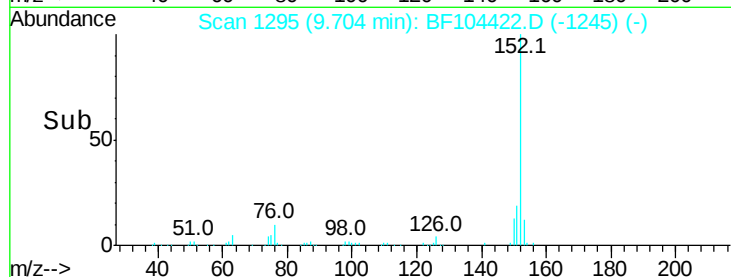
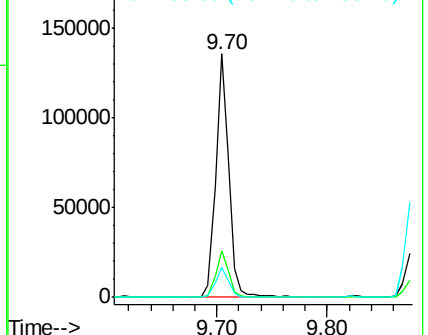
152 100

151 19.1 16.3 24.5

153 12.4 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.727 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

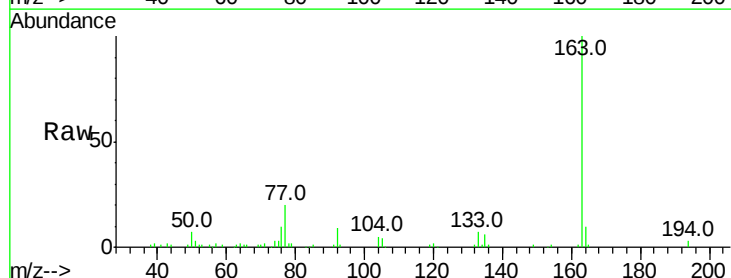
Tgt Ion:163 Resp: 66468

Ion Ratio Lower Upper

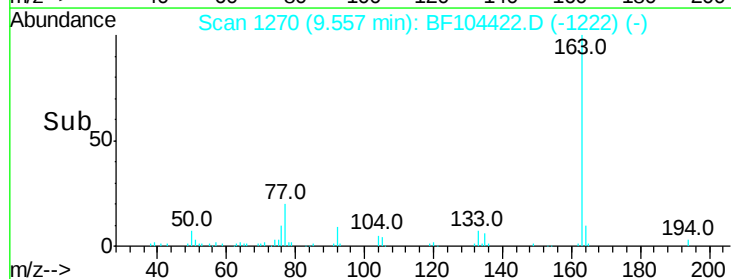
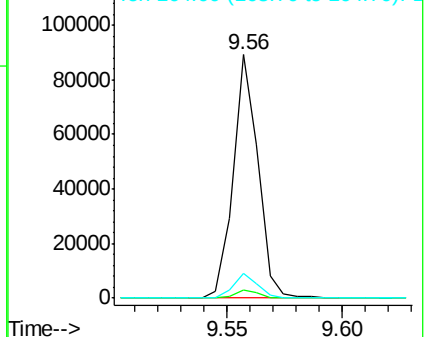
163 100

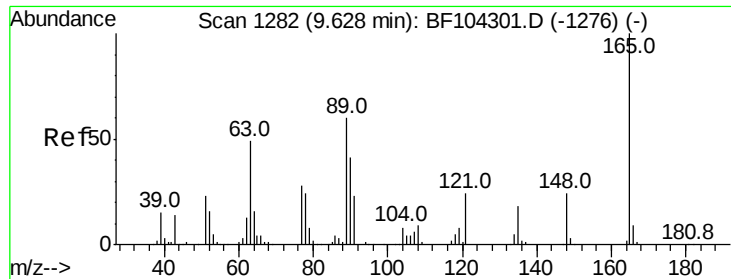
194 3.3 2.7 4.1

164 10.1 8.2 12.2



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

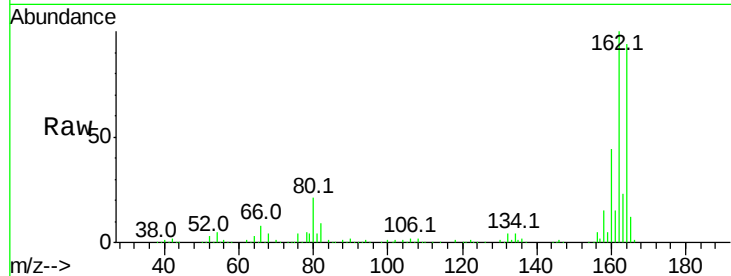




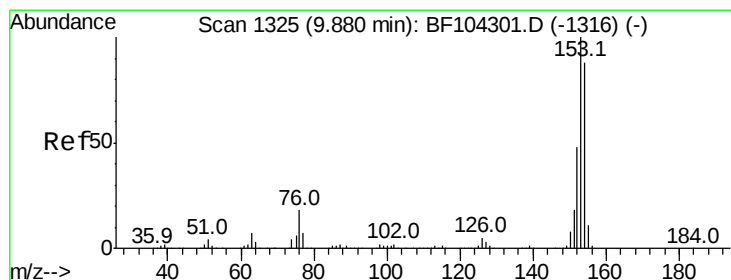
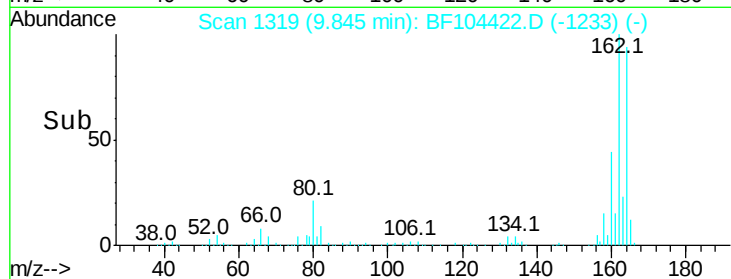
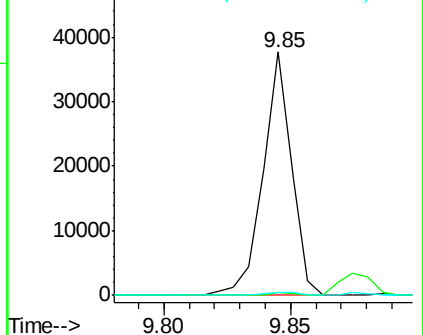
#50
2,6-Dinitrotoluene
Concen: 8.979 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.21 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.0	44.7	67.1#
89	1.5	44.0	66.0#

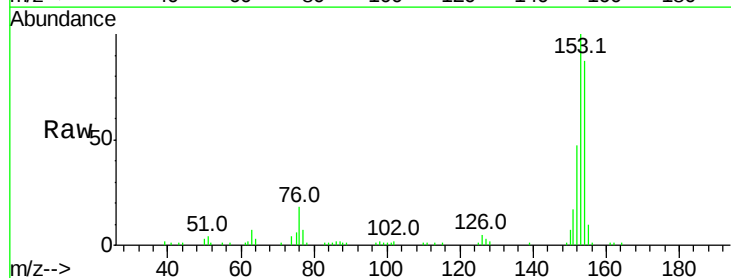


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

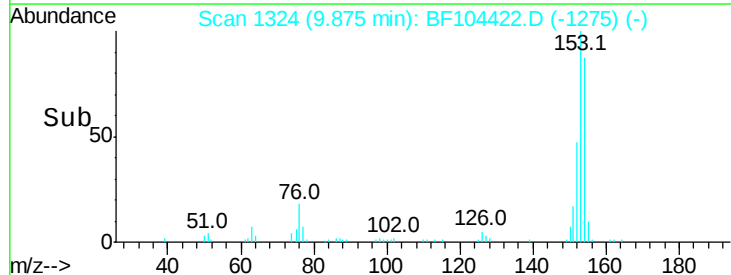
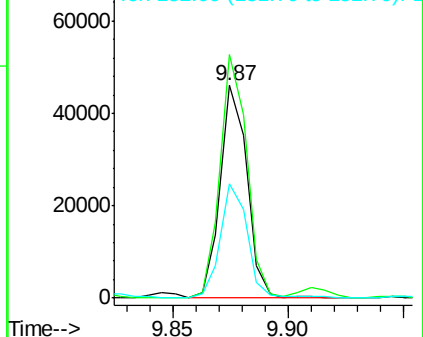


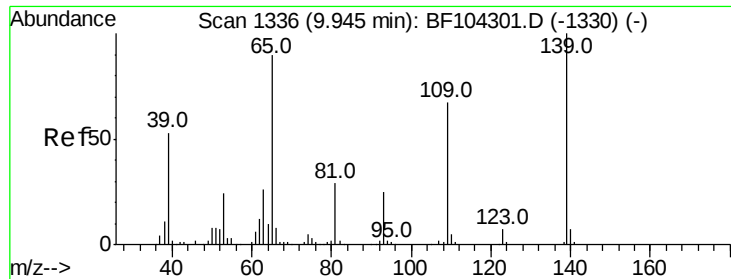
#51
Acenaphthene
Concen: 2.565 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.6	91.2	136.8
152	53.8	43.8	65.8



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

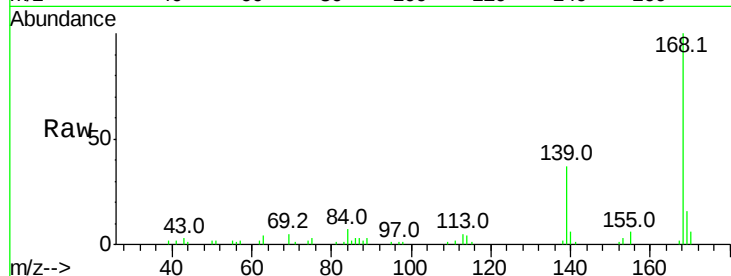




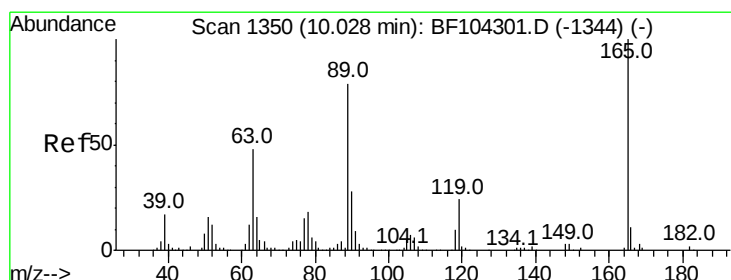
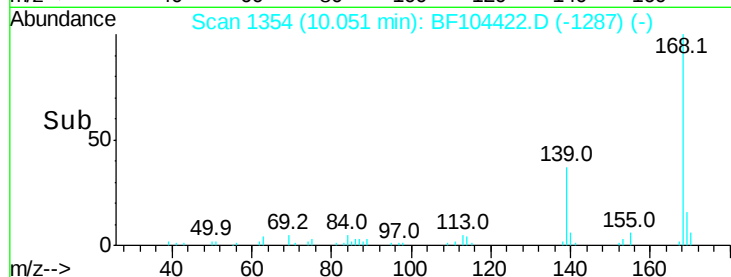
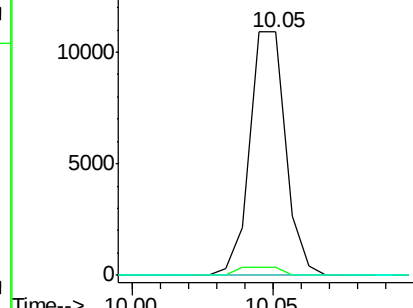
#55
4-Nitrophenol
Concen: 3.180 ng
RT: 10.05 min Scan# 1354
Delta R.T. 0.09 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
139	100		
109	3.4	48.4	88.4#
65	0.0	72.6	112.6#



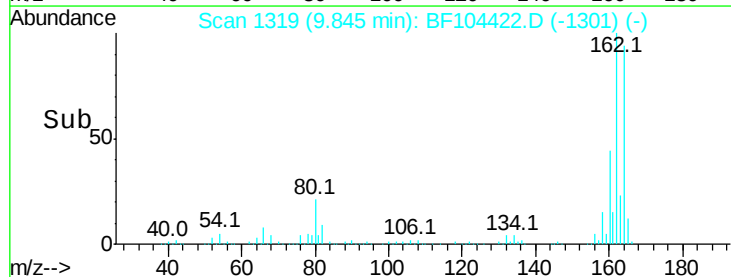
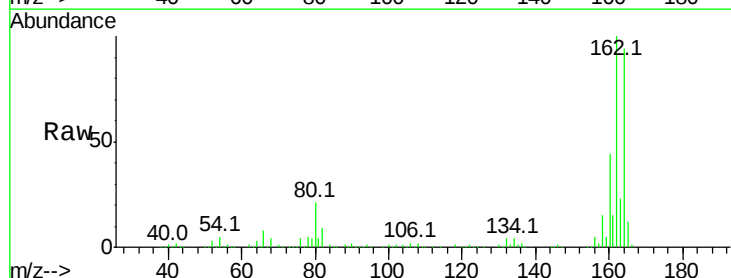
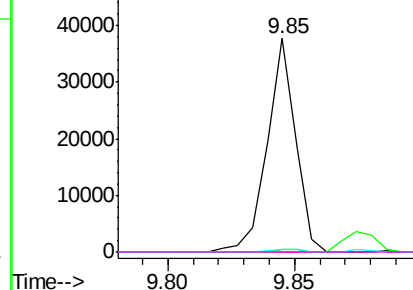
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

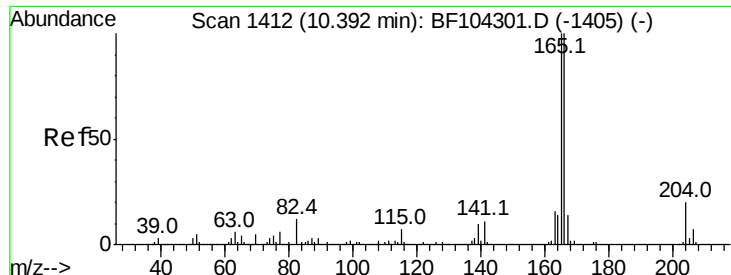


#56
2,4-Dinitrotoluene
Concen: 6.845 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.19 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#

Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

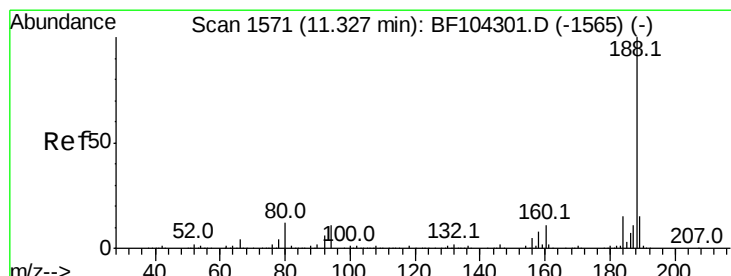
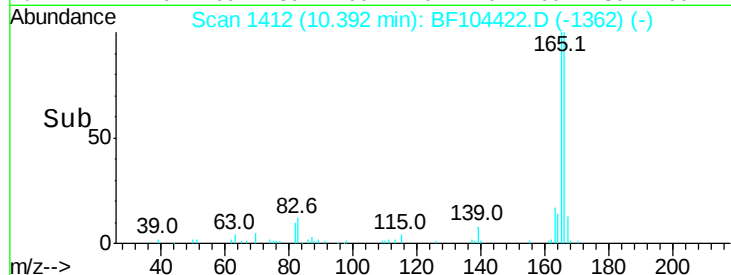
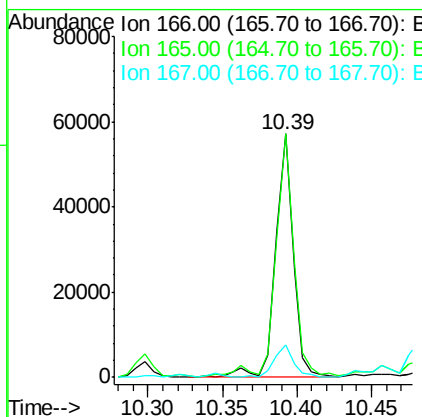
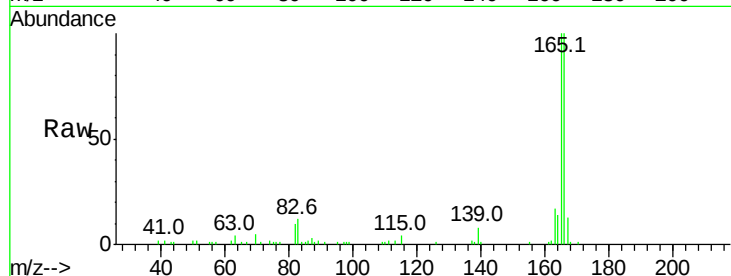




#57
Fluorene
 Concen: 3.254 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

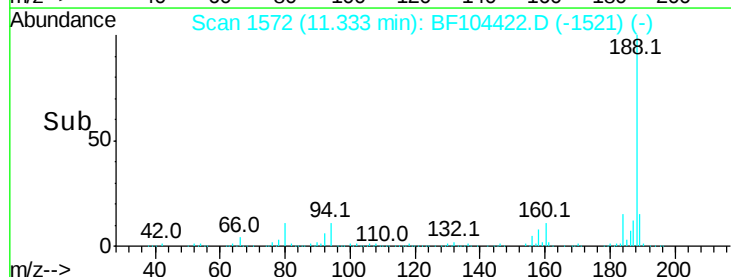
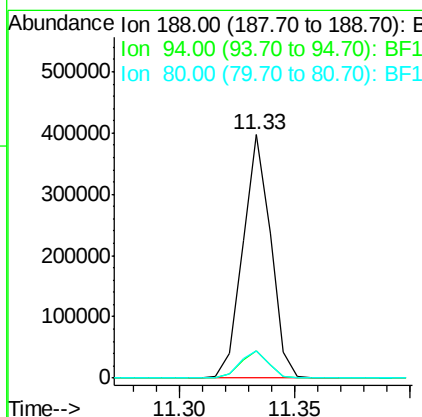
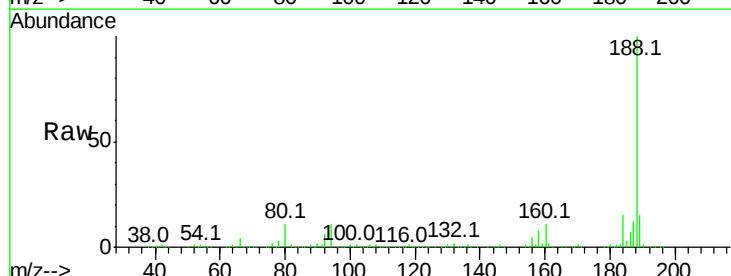
Instrument :
 BNA_F
 ClientSampleId :

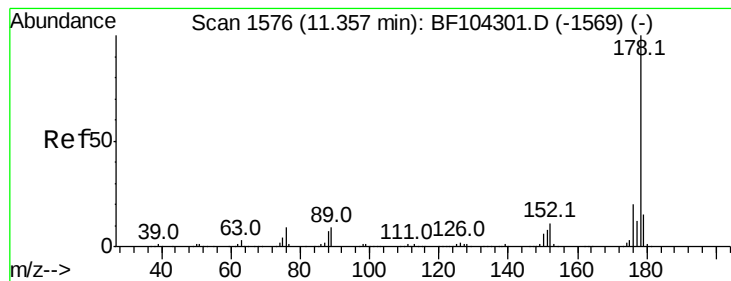
Tot Ion:166 Resp: 47423
 Ion Ratio Lower Upper
 166 100
 165 99.9 79.8 119.8
 167 13.5 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

Tgt Ion:188 Resp: 334406
 Ion Ratio Lower Upper
 188 100
 94 11.2 8.5 12.7
 80 11.5 9.2 13.8





#70

Phenanthrene

Concen: 29.977 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

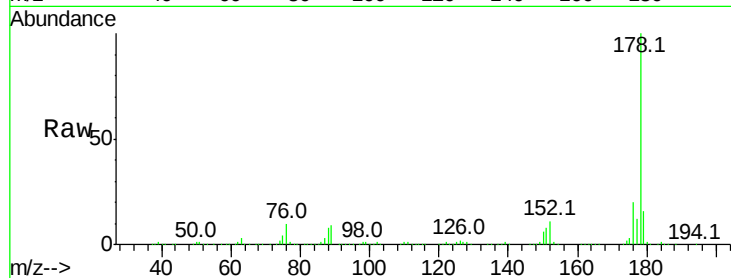
Tot Ion:178 Resp: 558265

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	16.2	13.0	19.6

178 100

176 19.6 15.8 23.8

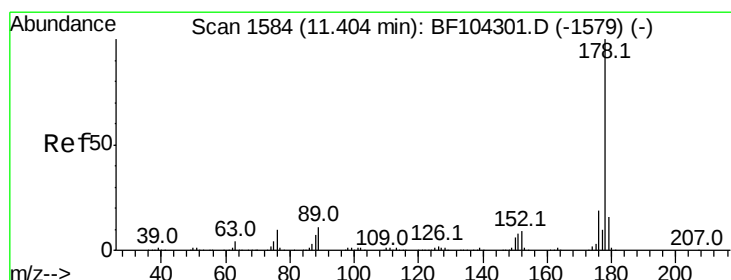
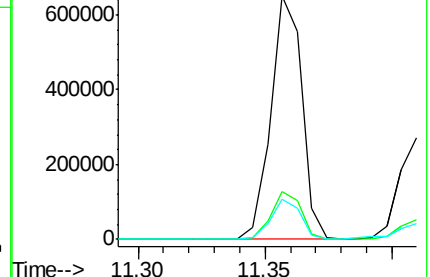
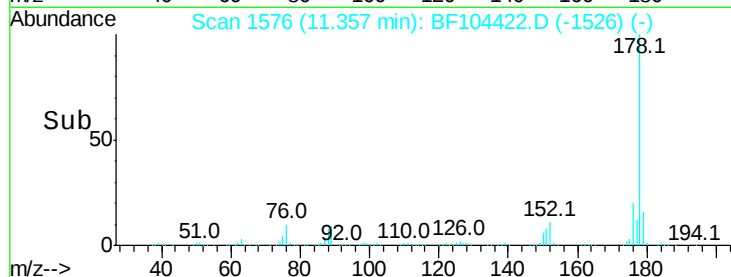
179 16.2 13.0 19.6



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: 11.383 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

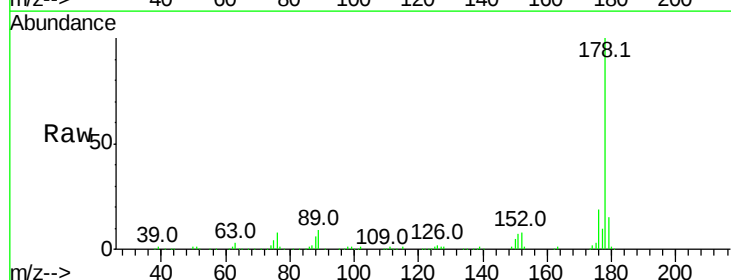
Tgt Ion:178 Resp: 215476

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	14.9	12.6	19.0

178 100

176 18.7 15.4 23.2

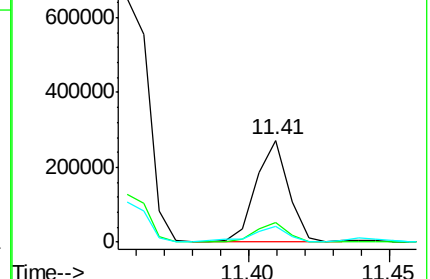
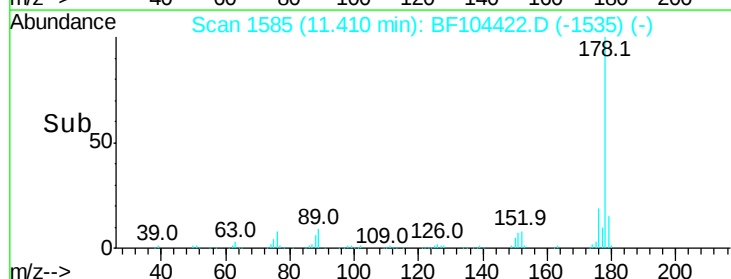
179 14.9 12.6 19.0

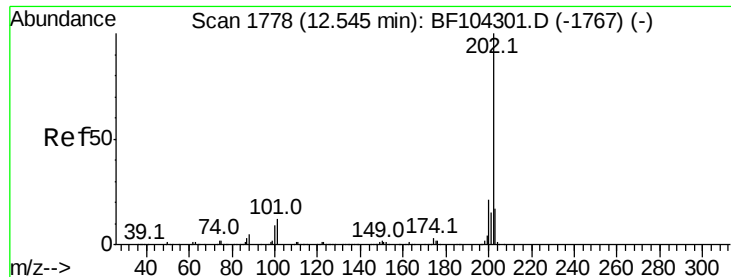


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 46.663 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.00 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

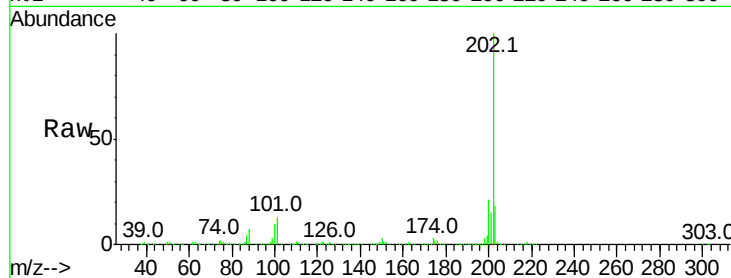
Tot Ion:202 Resp: 907935

Ion Ratio Lower Upper

202 100

101 13.4 0.0 34.1

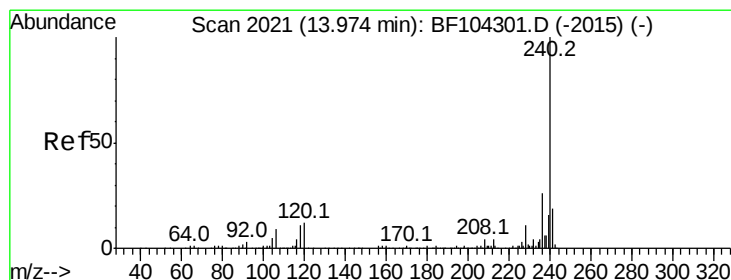
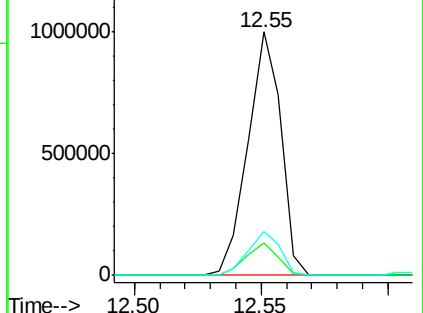
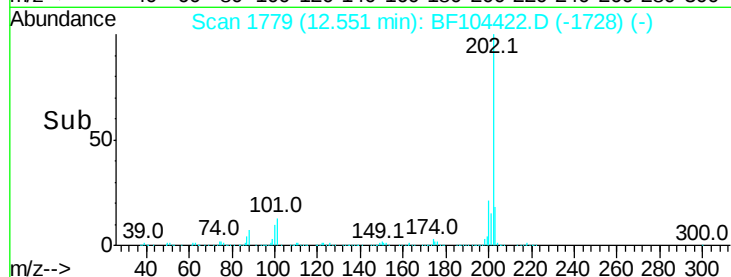
203 17.9 0.0 38.1



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: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

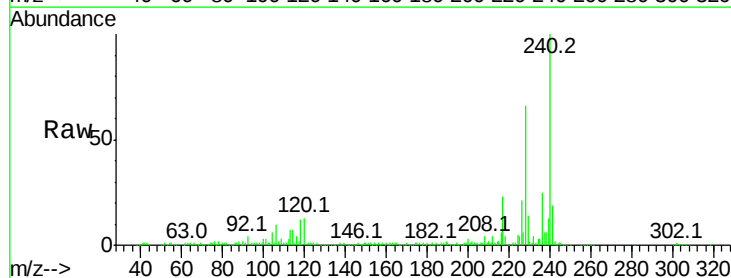
Tgt Ion:240 Resp: 272727

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

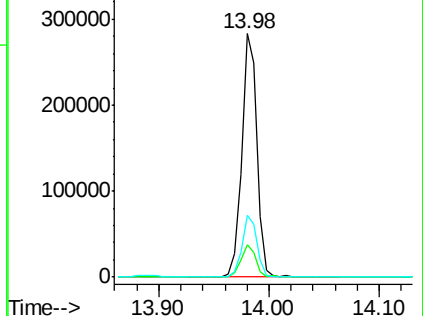
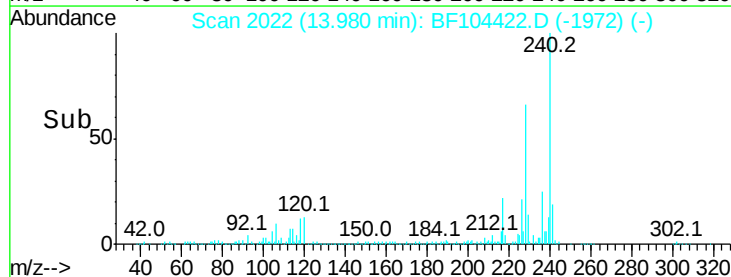
236 25.2 20.7 31.1

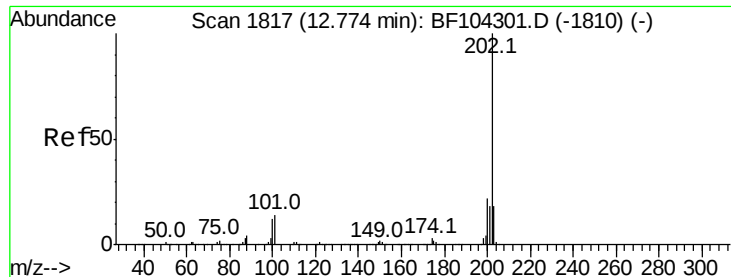


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 40.530 ng

RT: 12.78 min Scan# 1818

Delta R.T. 0.00 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

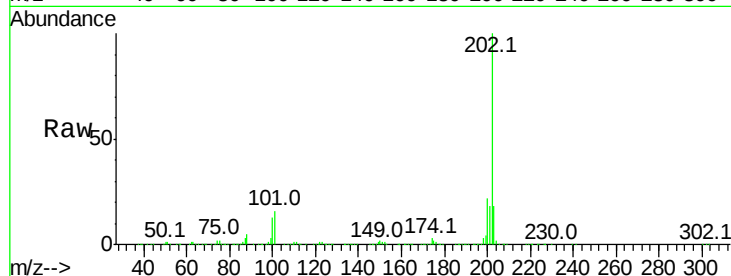
Tot Ion:202 Resp: 819340

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

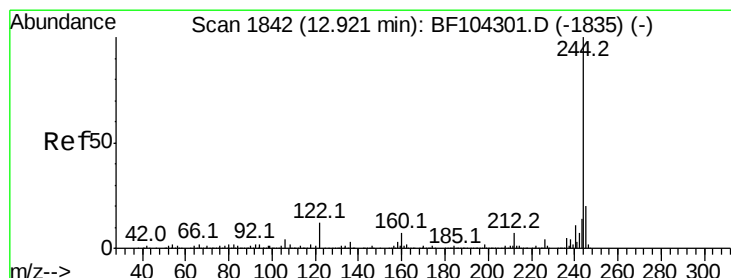
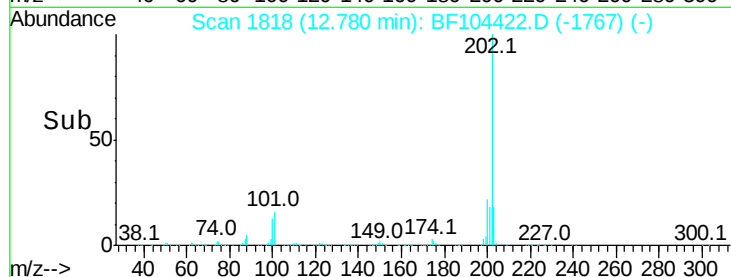
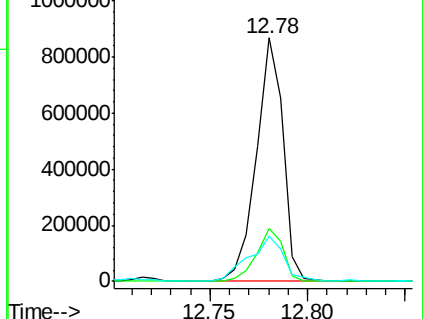
203 18.4 14.3 21.5



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: 26.157 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

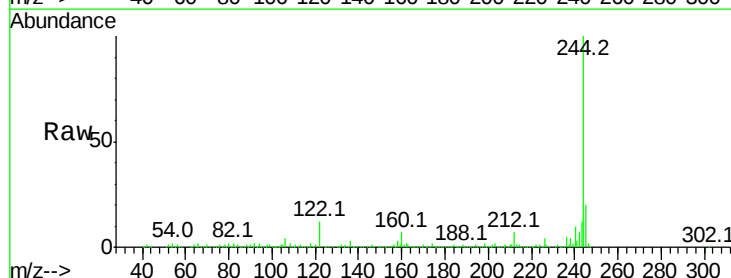
Tgt Ion:244 Resp: 312909

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

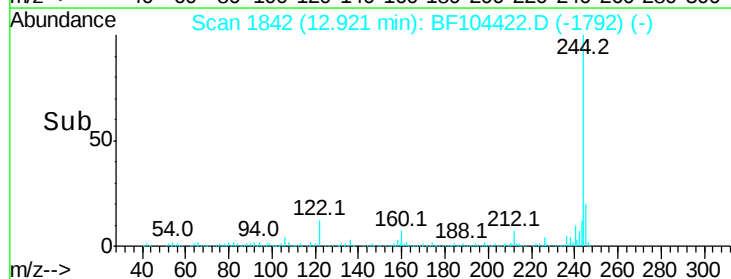
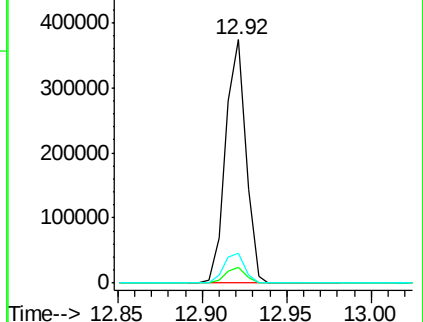
122 12.2 11.0 16.4

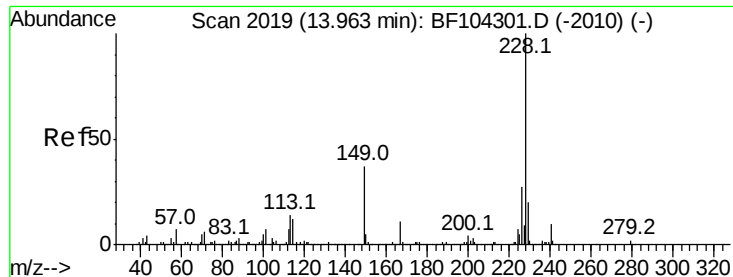


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

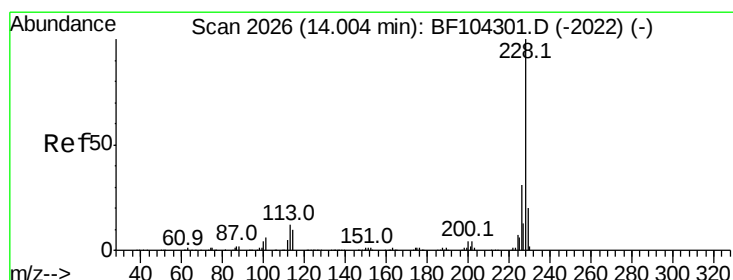
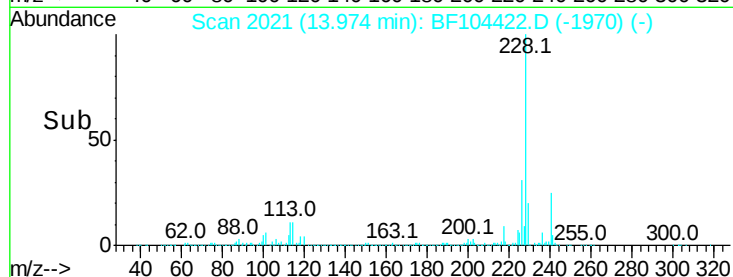
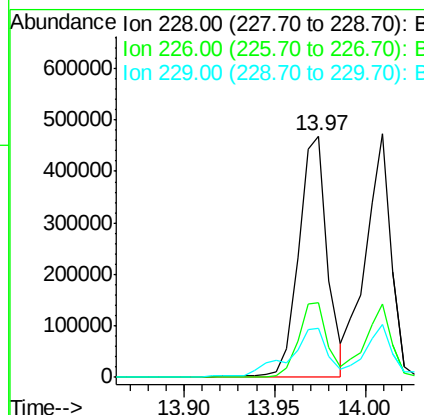
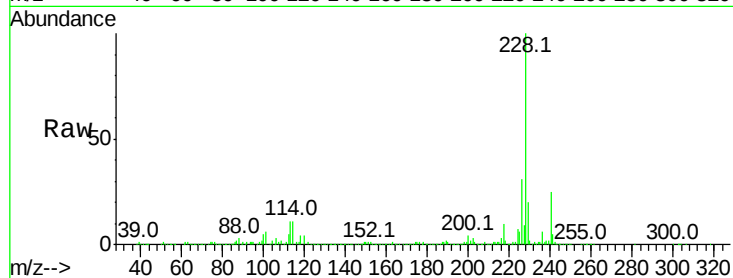




#80
Benzo(a)anthracene
Concen: 31.918 ng
RT: 13.97 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

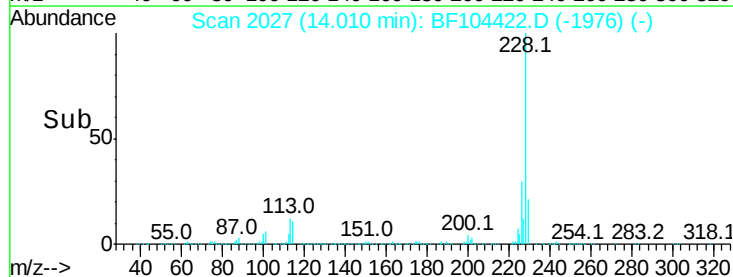
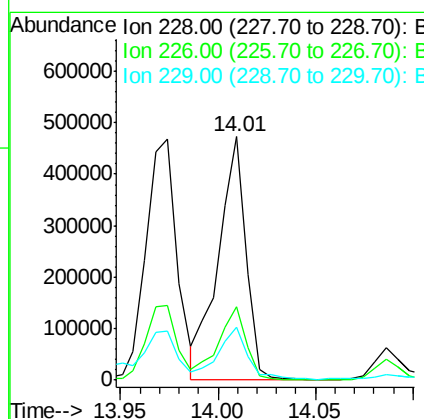
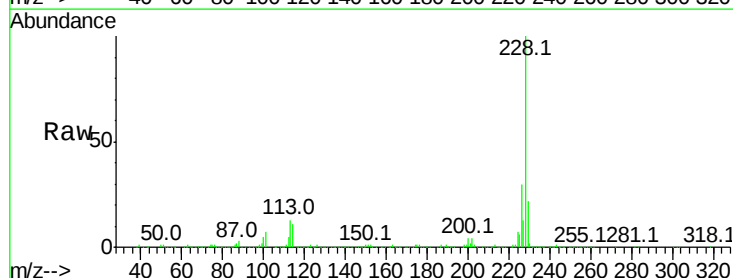
Instrument :
BNA_F
ClientSampleId :

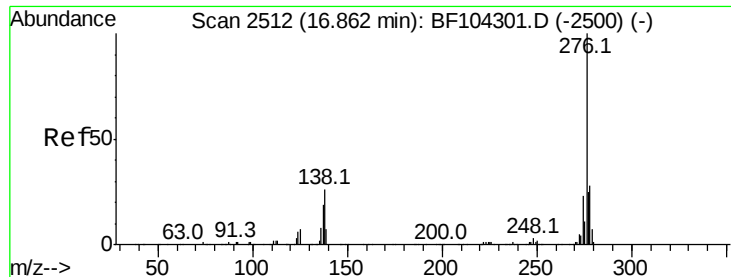
Tot Ion:228 Resp: 520039
Ion Ratio Lower Upper
228 100
226 31.0 22.6 33.8
229 20.3 15.8 23.6



#82
Chrysene
Concen: 27.830 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Tgt Ion:228 Resp: 465741
Ion Ratio Lower Upper
228 100
226 29.9 25.0 37.6
229 21.8 16.2 24.4

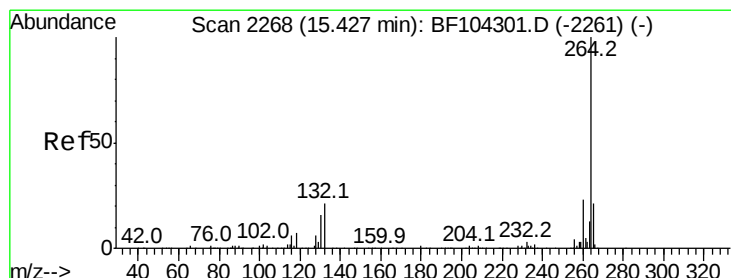
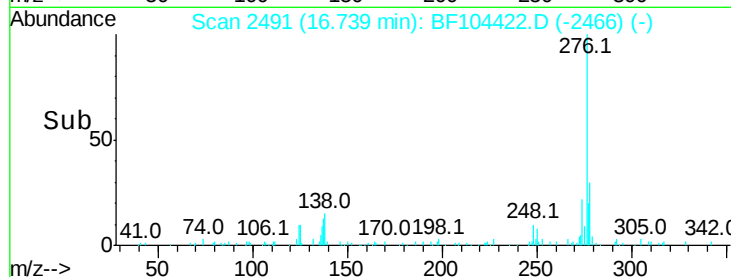
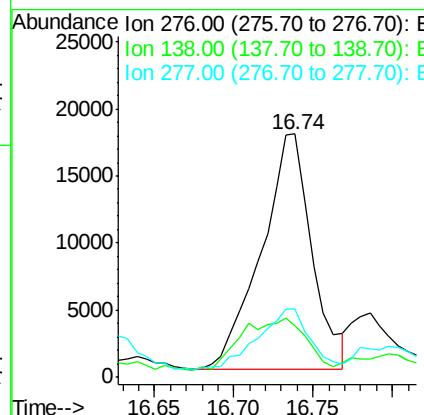
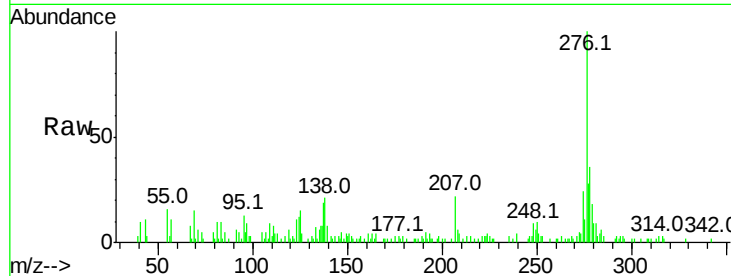




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.738 ng
 RT: 16.74 min Scan# 2491
 Delta R.T. -0.15 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

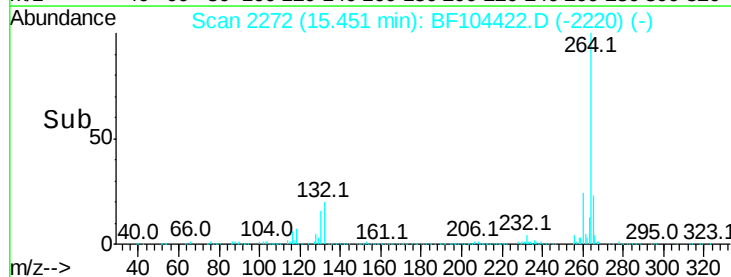
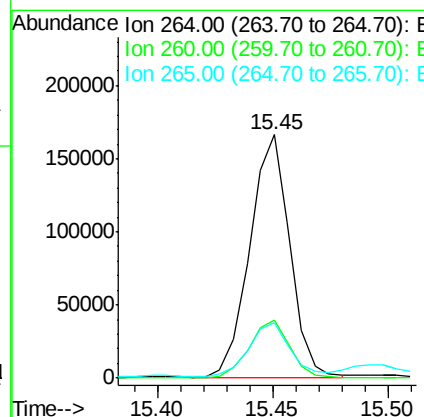
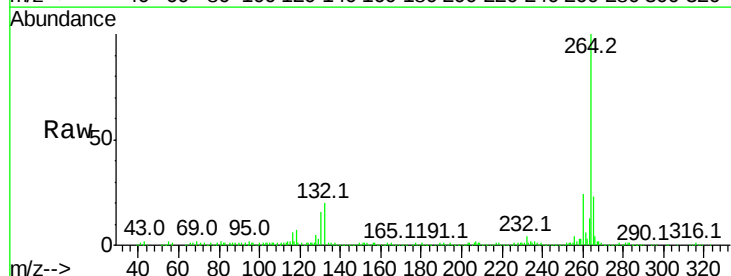
Instrument :
 BNA_F
 ClientSampleId :

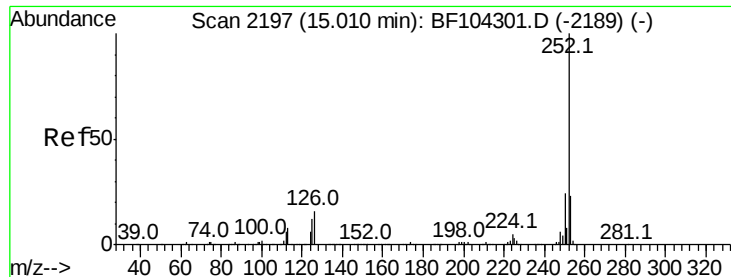
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.5	25.0	37.6
277	26.7	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.45 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: BF104422.D
 Acq: 10 Apr 2018 22:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.9	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 58.118 ng

RT: 15.03 min Scan# 2200

Delta R.T. 0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

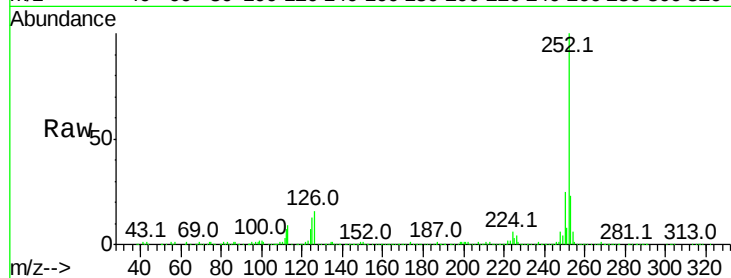
Tot Ion:252 Resp: 733736

Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.6

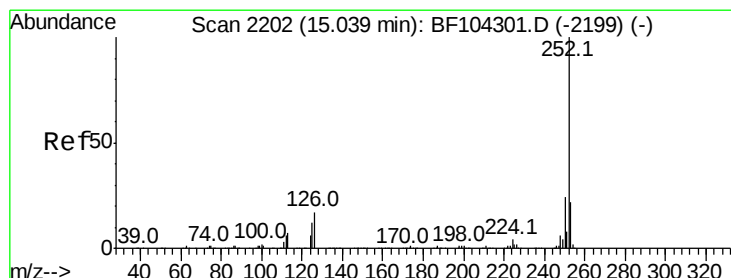
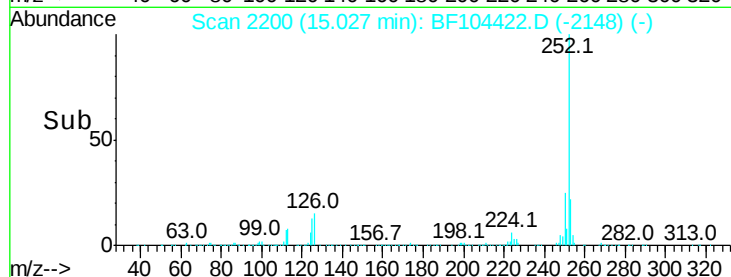
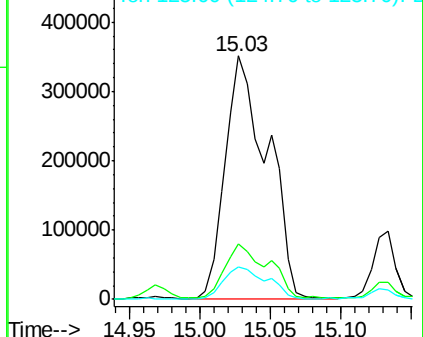
125 13.4 9.0 13.6



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: 61.560 ng

RT: 15.03 min Scan# 2200

Delta R.T. -0.03 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

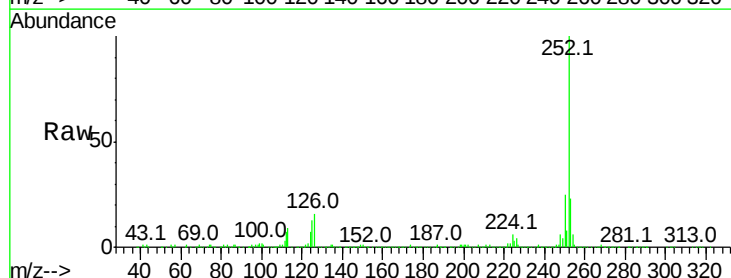
Tgt Ion:252 Resp: 733736

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

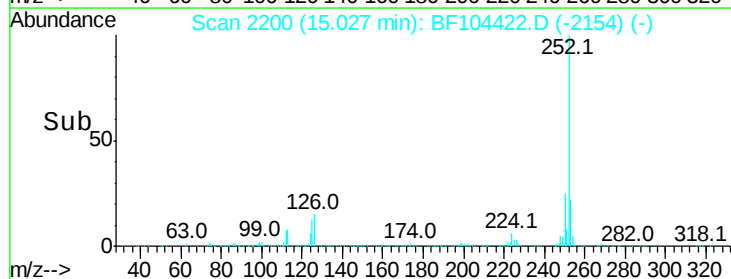
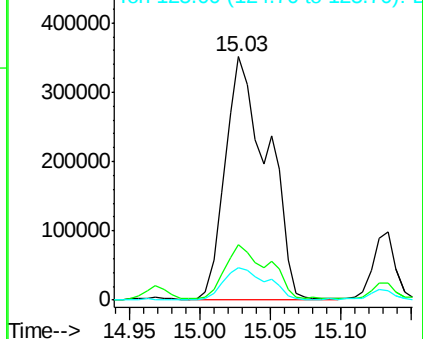
125 13.4 10.2 15.2

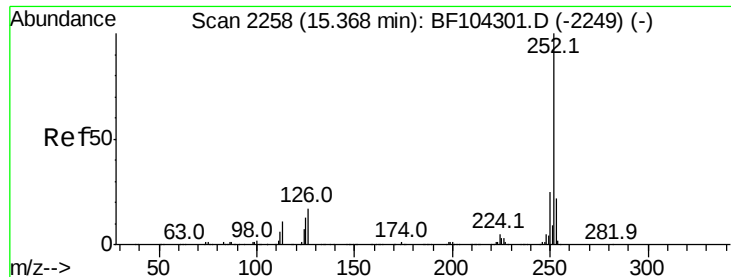


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

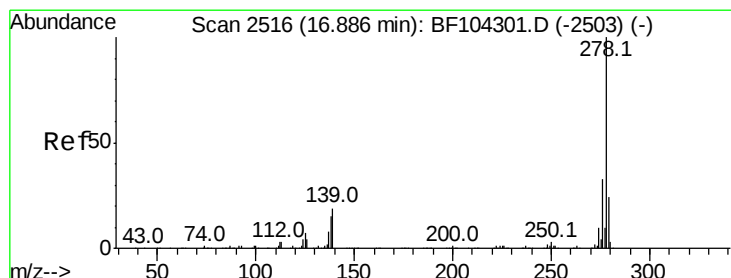
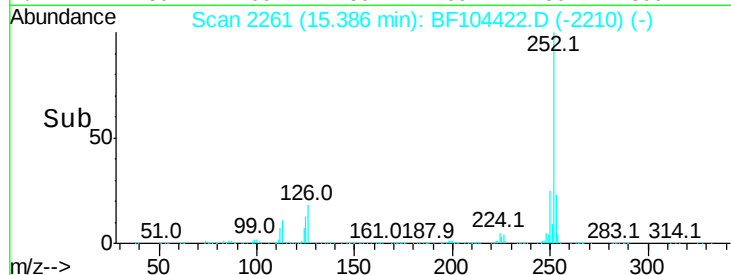
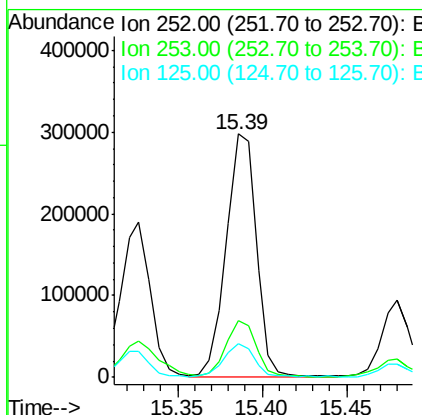
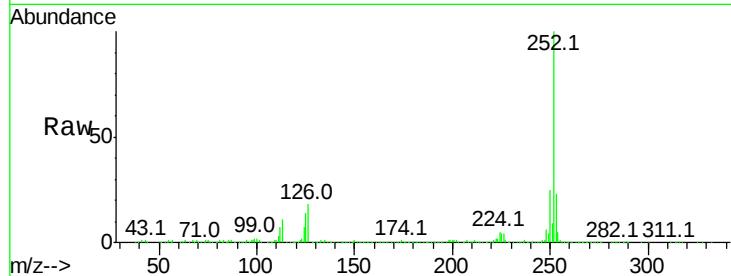




#89
Benzo(a)pyrene
Concen: 32.602 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.00 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

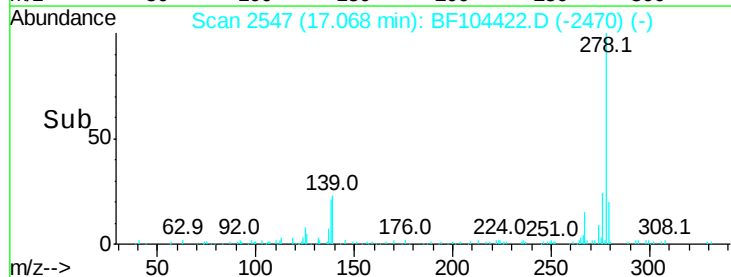
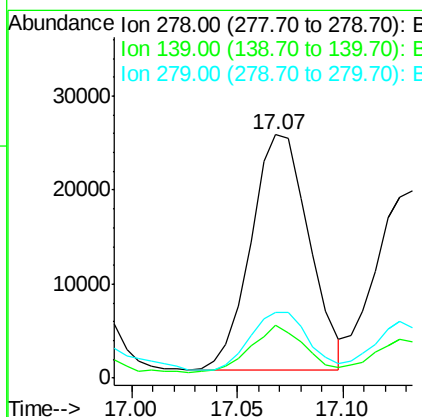
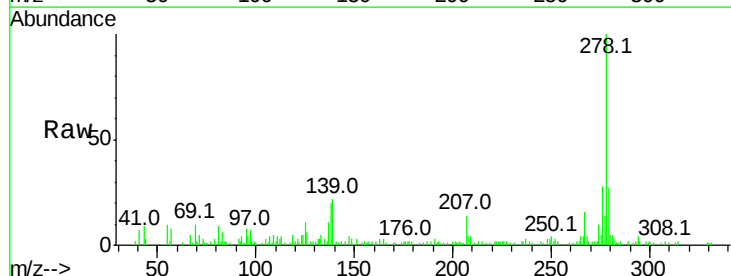
Instrument :
BNA_F
ClientSampleId :

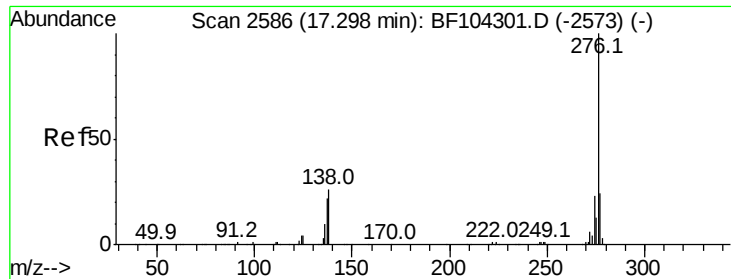
Tot Ion:252 Resp: 368280
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 13.7 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 5.195 ng
RT: 17.07 min Scan# 2547
Delta R.T. 0.15 min
Lab File: BF104422.D
Acq: 10 Apr 2018 22:05

Tgt Ion:278 Resp: 48198
Ion Ratio Lower Upper
278 100
139 21.8 15.9 23.9
279 26.8 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 19.620 ng

RT: 17.33 min Scan# 2592

Delta R.T. -0.01 min

Lab File: BF104422.D

Acq: 10 Apr 2018 22:05

Instrument :

BNA_F

ClientSampleId :

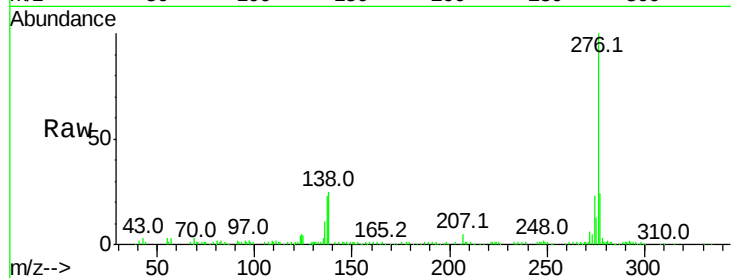
Tot Ion:276 Resp: 176347

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 25.0 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

