

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
 Data File : BF106405.D
 Acq On : 13 Jun 2018 21:37
 Operator : JU/SJ
 Sample : J3322-04DL 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 14 02:22:31 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 13 10:51:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	134567	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	530940	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	249211	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	454689	20.00	ng	0.00
75) Chrysene-d12	14.15	240	336561	20.00	ng	-0.01
86) Perylene-d12	15.68	264	349773	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.62	112	16951	2.13	ng	0.00
7) Phenol-d6	6.63	99	21397	2.13	ng	0.00
23) Nitrobenzene-d5	7.52	82	13030	1.44	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	4429	1.85	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	26377	-1.00	ng	-0.01
78) Terphenyl-d14	13.08	244	23759	1.75	ng	-0.01

Target Compounds

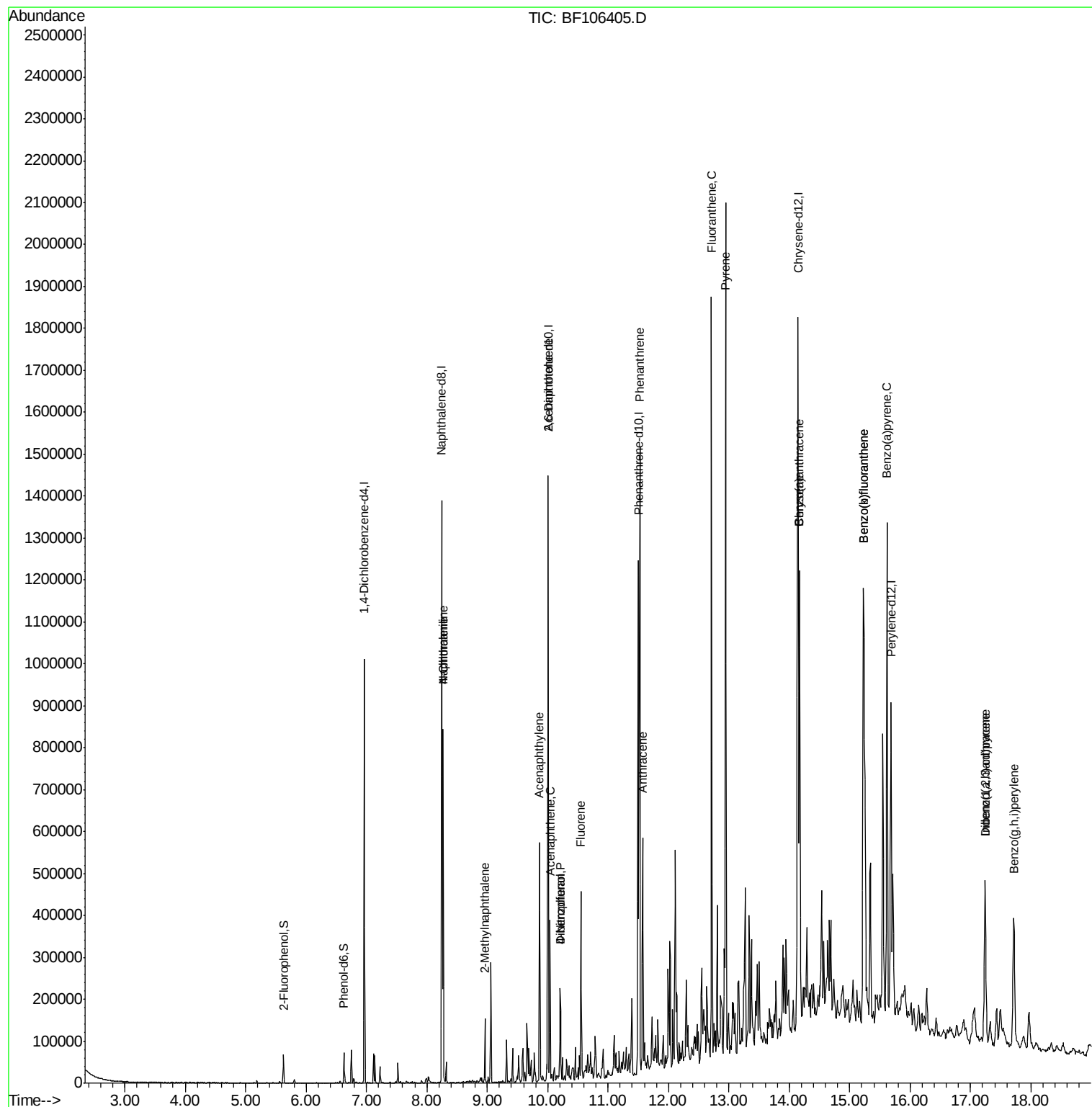
						Qvalue
31) Naphthalene	8.27	128	322312	13.429	ng	98
33) 4-Chloroaniline	8.27	127	41288	3.882	ng	# 30
37) 2-Methylnaphthalene	8.96	142	34424	2.106	ng	96
48) Acenaphthylene	9.87	152	214927	9.090	ng	98
50) 2,6-Dinitrotoluene	10.01	165	33805	9.295	ng	# 25
51) Acenaphthene	10.04	154	71048	4.653	ng	98
54) Dibenzofuran	10.21	168	68337	3.324	ng	99
55) 4-Nitrophenol	10.21	139	25859	7.816	ng	# 11
57) Fluorene	10.55	166	108828	6.680	ng	99
70) Phenanthrene	11.52	178	547294	24.578	ng	99
71) Anthracene	11.57	178	190760	8.551	ng	99
74) Fluoranthene	12.72	202	735672	30.979	ng	96
77) Pvrene	12.95	202	759731	36.056	ng	99
80) Benzo(a)anthracene	14.17	228	419415	20.941	ng	94
82) Chrysene	14.17	228	419415	22.936	ng	98
85) Indeno(1,2,3-cd)pyrene	17.24	276	264402	18.117	ng	# 88
87) Benzo(b)fluoranthene	15.23	252	929648	43.969	ng	96
88) Benzo(k)fluoranthene	15.23	252	929648	44.396	ng	97
89) Benzo(a)pvrene	15.62	252	553553	29.107	ng	95
90) Dibenzo(a,h)anthracene	17.25	278	68800	4.339	ng	# 75
91) Benzo(g,h,i)perylene	17.72	276	248753	16.144	ng	92

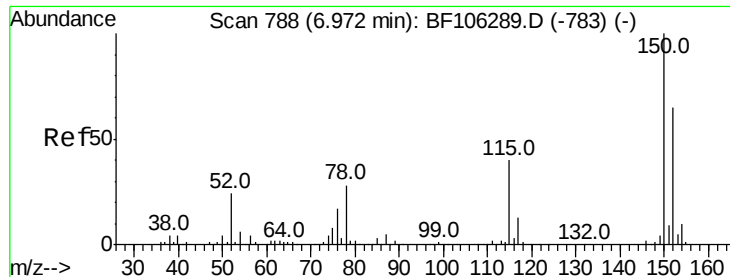
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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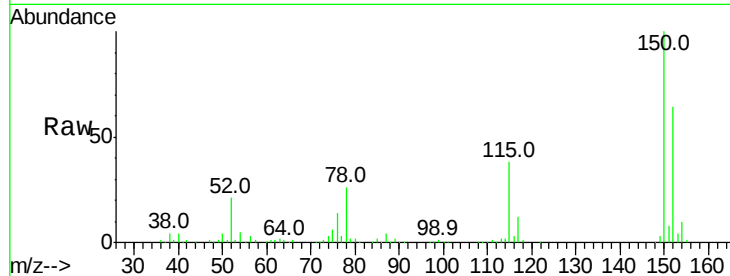


#1

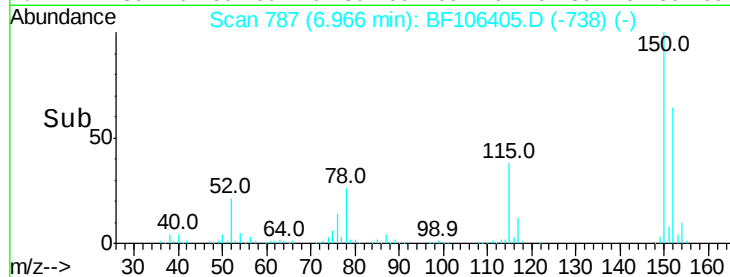
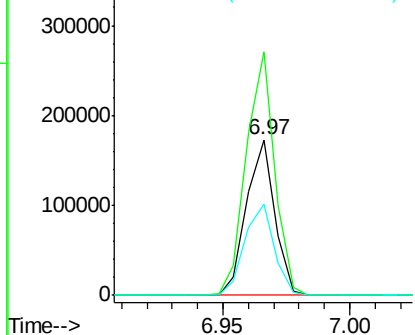
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 134567
Ion Ratio Lower Upper
152 100
150 156.6 124.6 186.8
115 58.9 50.1 75.1



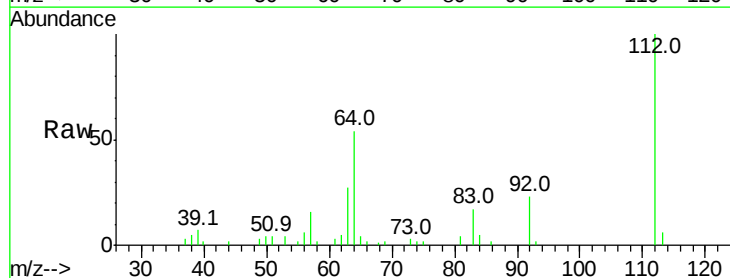
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



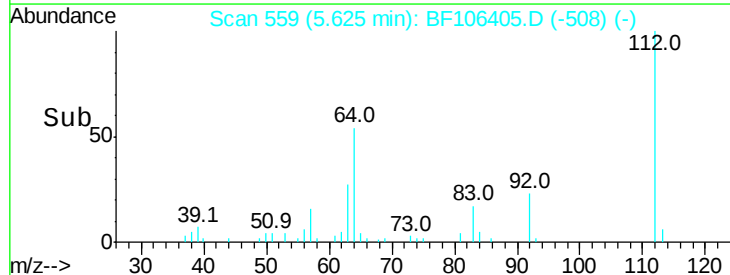
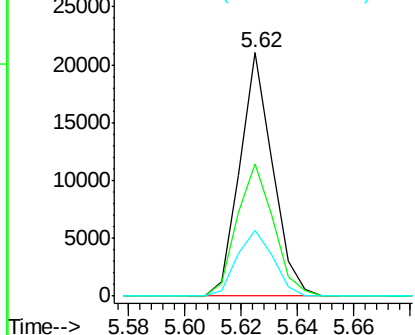
#5

2-Fluorophenol
Concen: 2.132 ng
RT: 5.62 min Scan# 559
Delta R.T. -0.00 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion:112 Resp: 16951
Ion Ratio Lower Upper
112 100
64 54.4 47.9 71.9
63 27.0 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: 2.130 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

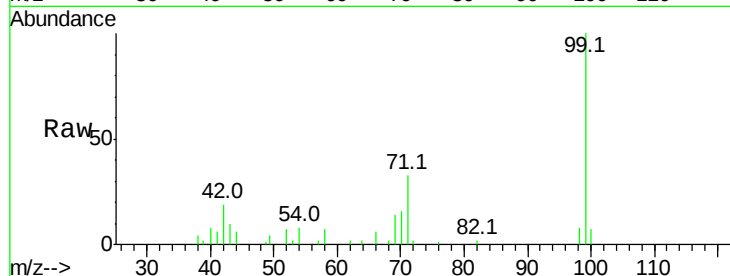
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 21397

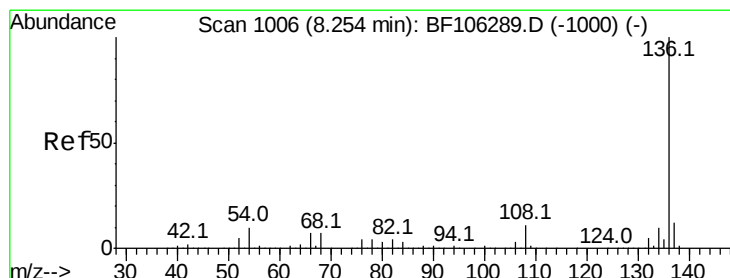
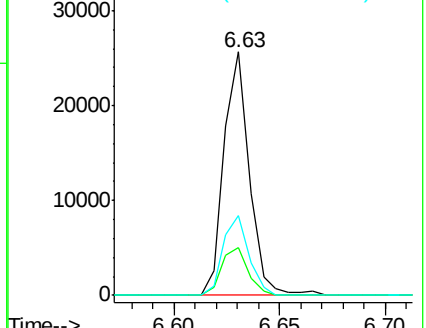
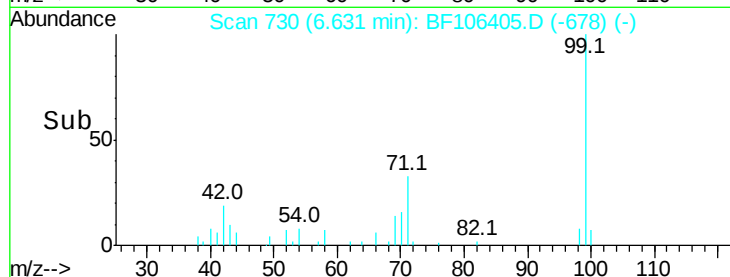
Ion	Ratio	Lower	Upper
99	100		
42	19.5	14.5	21.7
71	32.7	25.4	38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

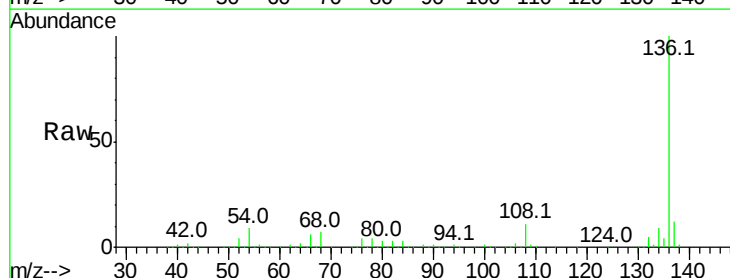
Delta R.T. -0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Tgt Ion: 136 Resp: 530940

Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.9	13.3
54	8.8	6.6	9.8
68	7.0	5.0	7.4

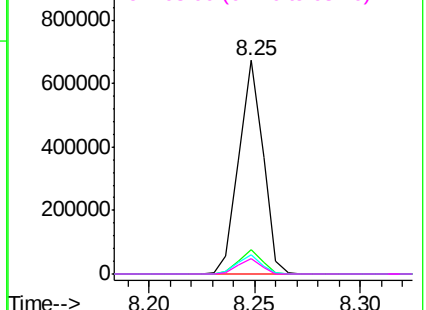
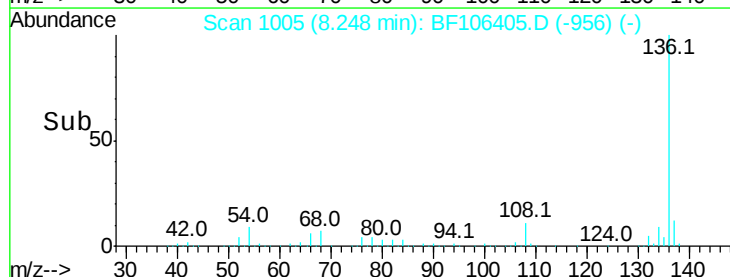


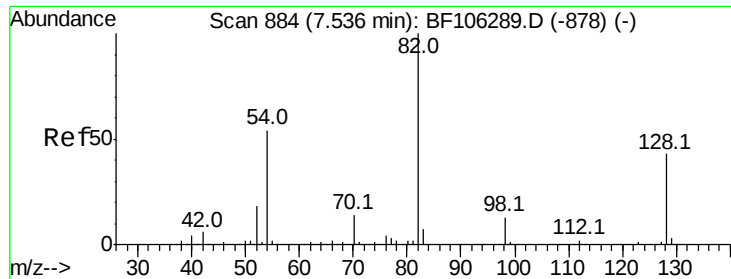
Abundance Ion 136.00 (135.70 to 136.70): E

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

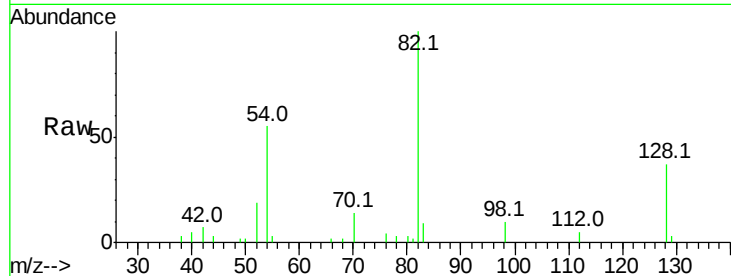




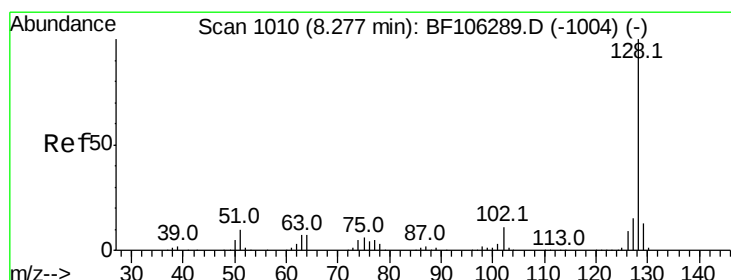
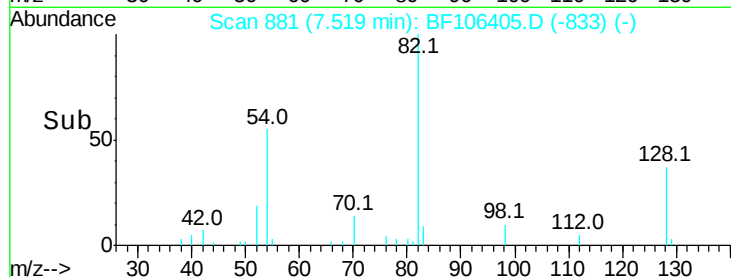
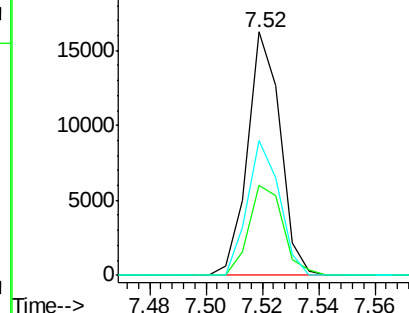
#23
Nitrobenzene-d5
Concen: 1.444 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.02 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 13030
Ion Ratio Lower Upper
82 100
128 36.9 36.1 54.1
54 55.2 41.4 62.2

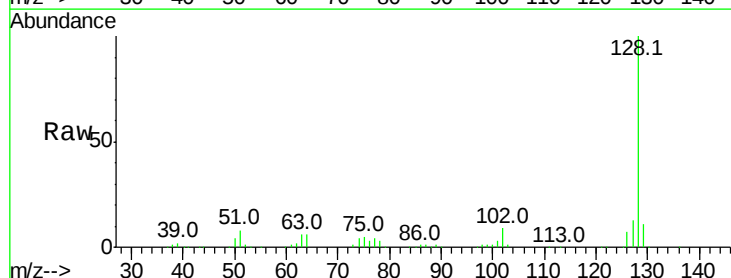


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

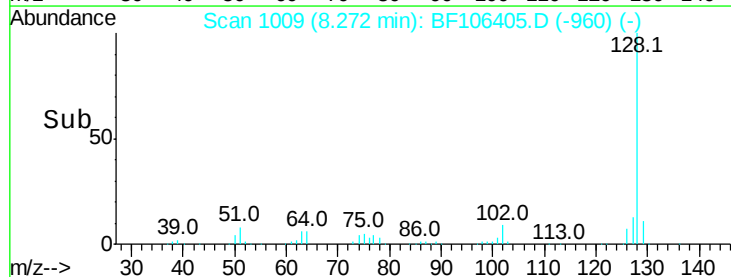
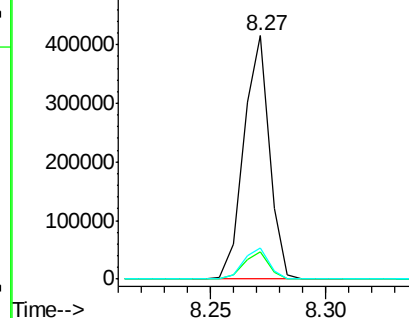


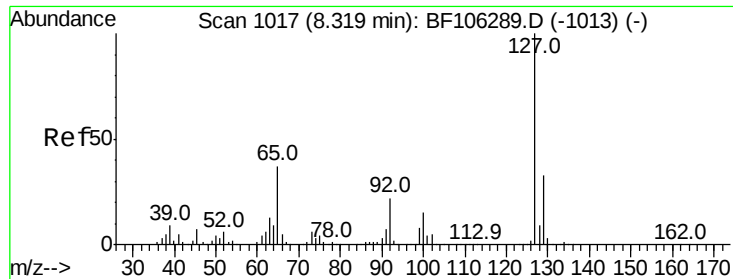
#31
Naphthalene
Concen: 13.429 ng
RT: 8.27 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion: 128 Resp: 322312
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 12.8 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

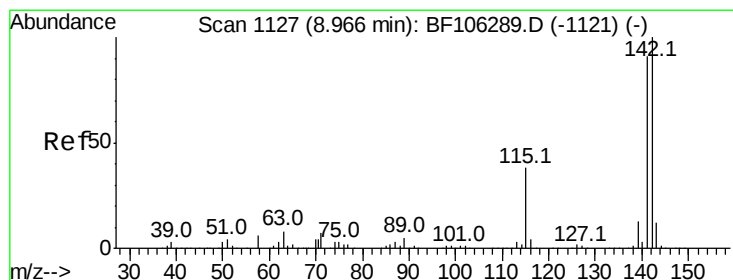
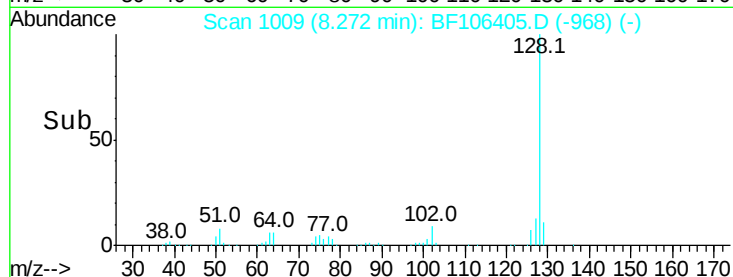
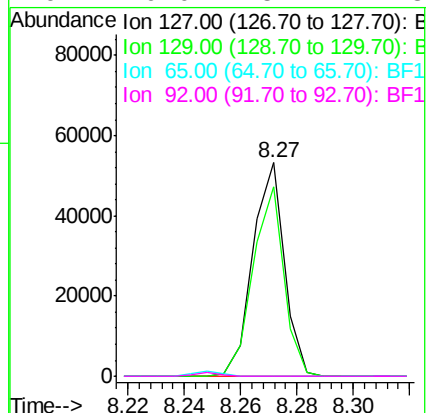
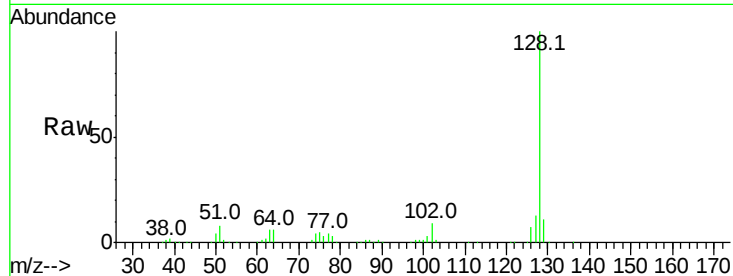




#33
4-Chloroaniline
Concen: 3.882 ng
RT: 8.27 min Scan# 1009
Delta R.T. -0.06 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

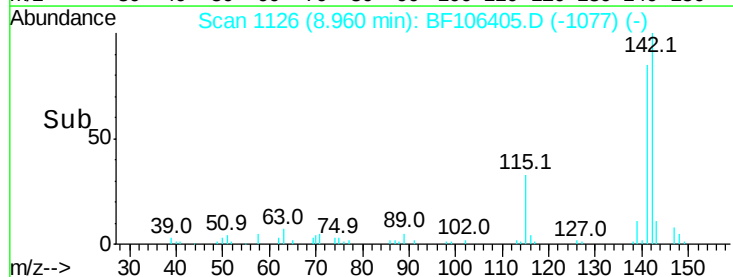
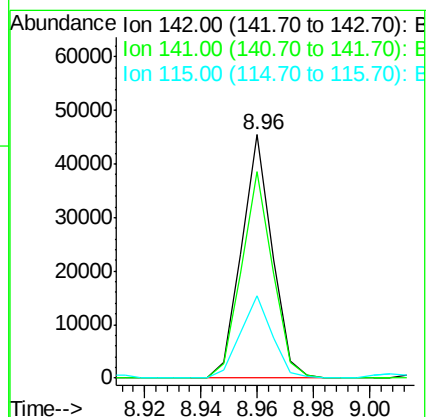
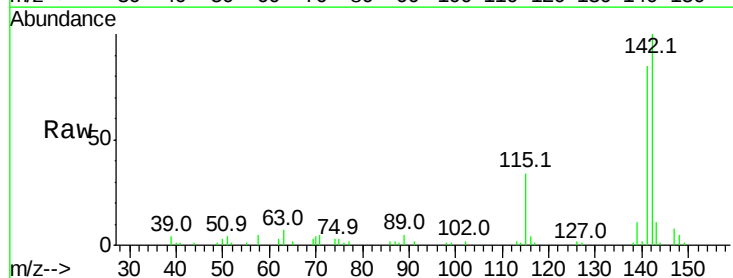
Instrument :
BNA_F
ClientSampleId :

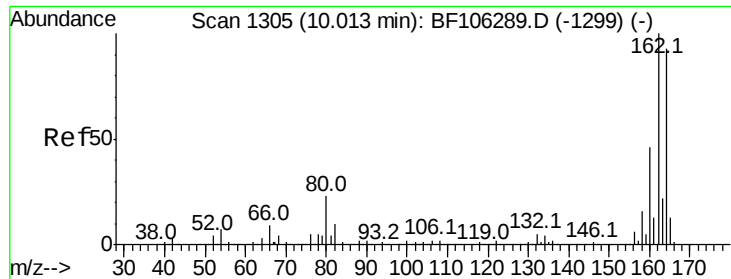
Tot Ion:127 Resp: 41288
Ion Ratio Lower Upper
127 100
129 88.7 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



#37
2-Methylnaphthalene
Concen: 2.106 ng
RT: 8.96 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion:142 Resp: 34424
Ion Ratio Lower Upper
142 100
141 84.6 70.8 106.2
115 33.8 26.1 39.1

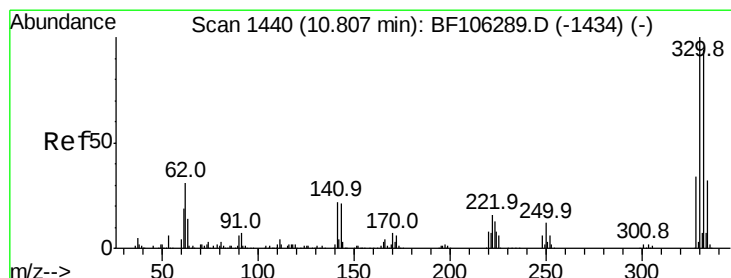
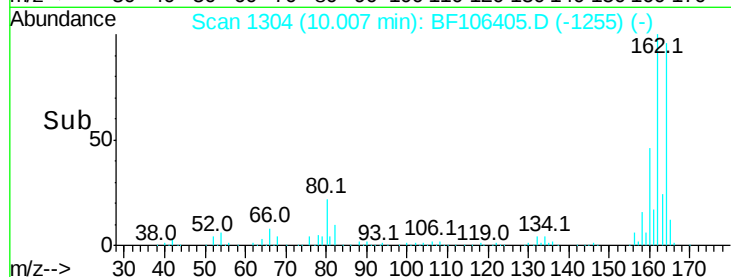
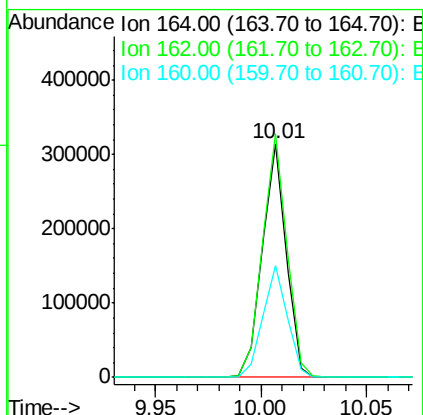
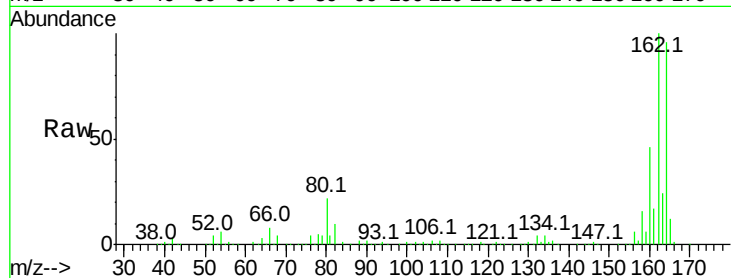




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

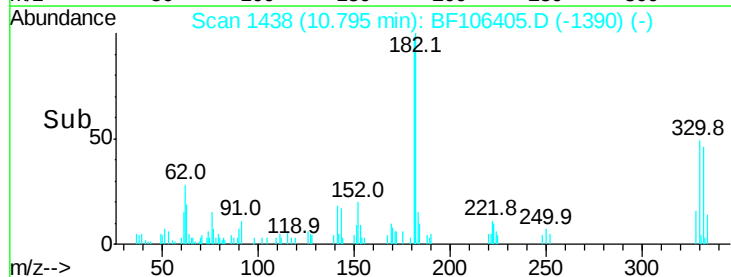
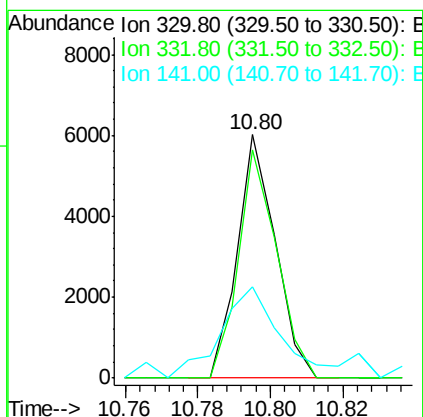
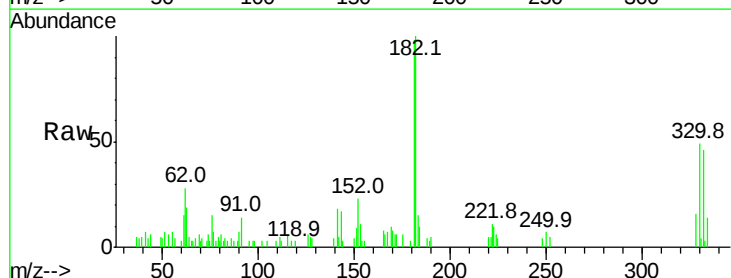
Instrument :
BNA_F
ClientSampleId :

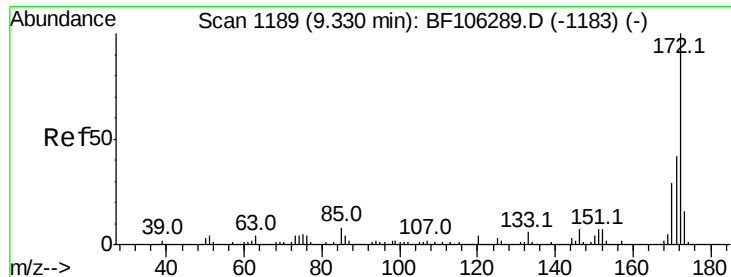
Tot Ion:164 Resp: 249211
Ion Ratio Lower Upper
164 100
162 104.3 86.1 129.1
160 48.0 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 1.847 ng
RT: 10.80 min Scan# 1438
Delta R.T. -0.02 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion:330 Resp: 4429
Ion Ratio Lower Upper
330 100
332 94.2 77.0 115.6
141 69.8 29.9 44.9#

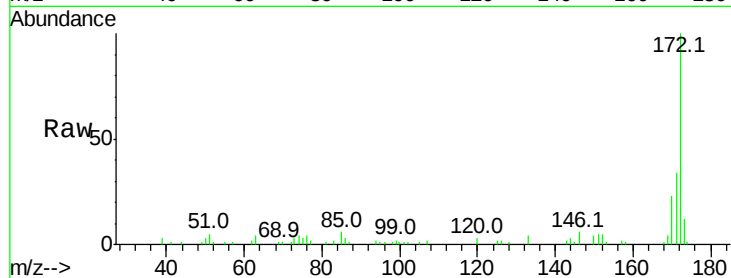




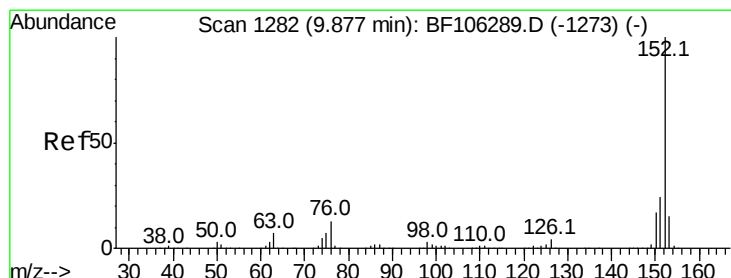
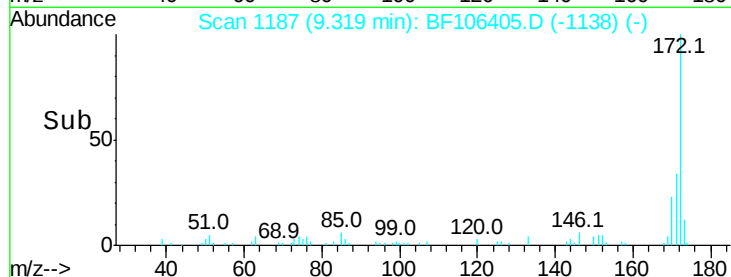
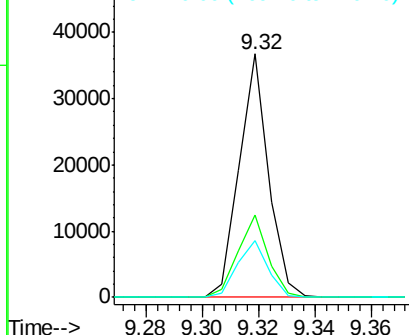
#44
2-Fluorobiphenyl
Concen: -1.000 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.7	44.5
170	23.3	19.6	29.4

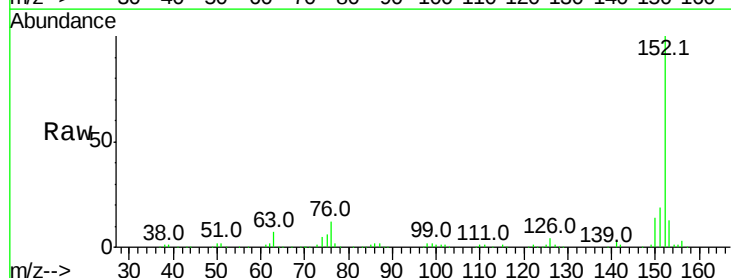


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

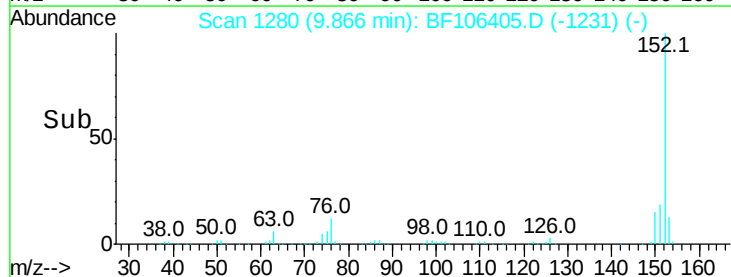
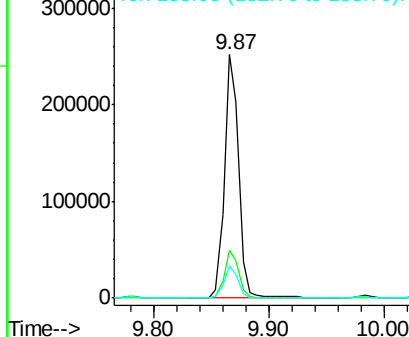


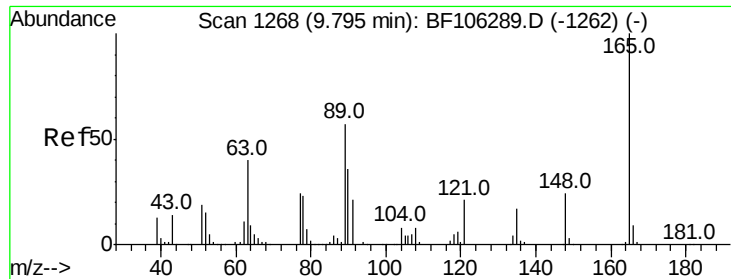
#48
Acenaphthylene
Concen: 9.090 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.3	24.5
153	13.1	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

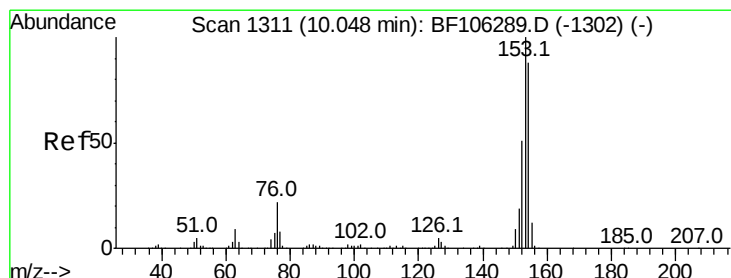
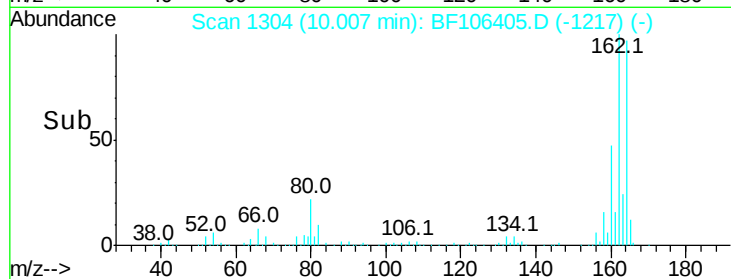
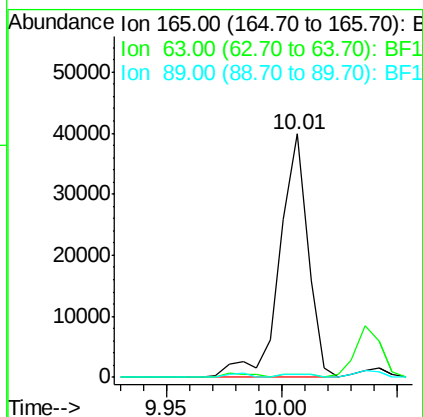
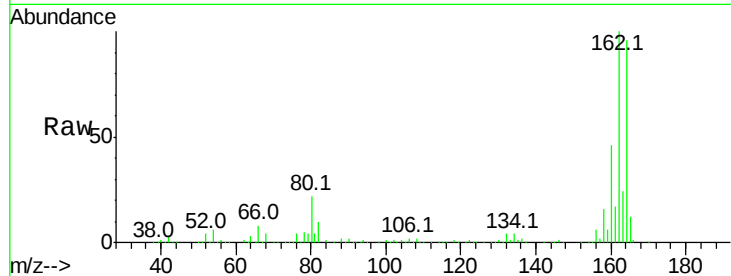




#50
 2,6-Dinitrotoluene
 Concen: 9.295 ng
 RT: 10.01 min Scan# 1304
 Delta R.T. 0.21 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

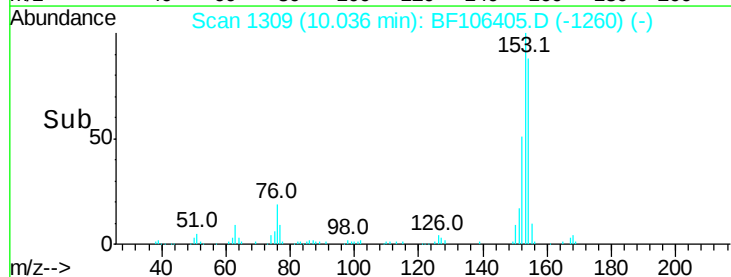
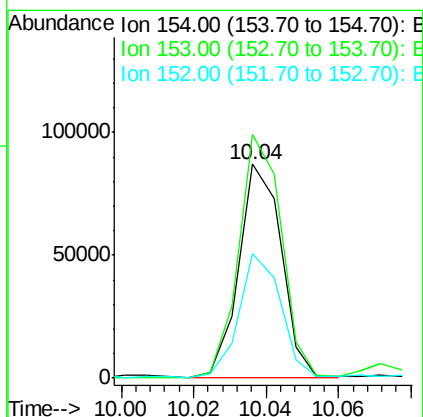
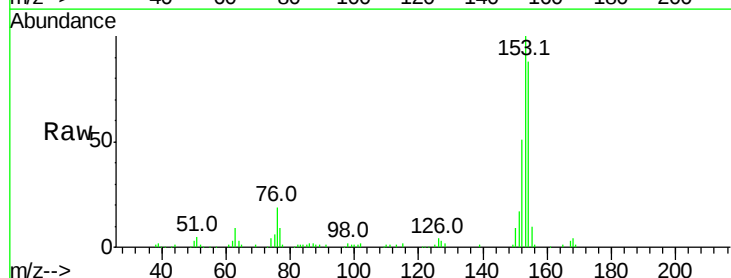
Instrument :
 BNA_F
 ClientSampled :

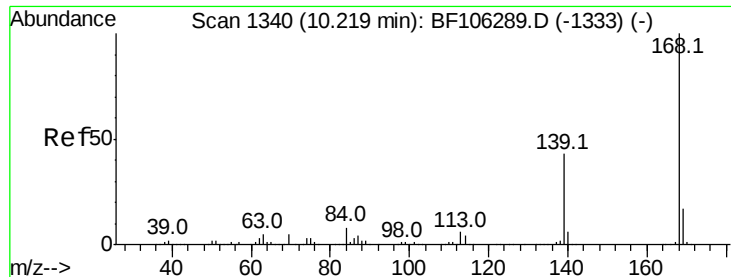
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	44.7	67.1#
89	1.1	44.0	66.0#



#51
 Acenaphthene
 Concen: 4.653 ng
 RT: 10.04 min Scan# 1309
 Delta R.T. -0.01 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.0	91.2	136.8
152	58.5	43.8	65.8





#54

Dibenzofuran

Concen: 3.324 ng

RT: 10.21 min Scan# 1338

Delta R.T. -0.02 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Instrument :

BNA_F

ClientSampleId :

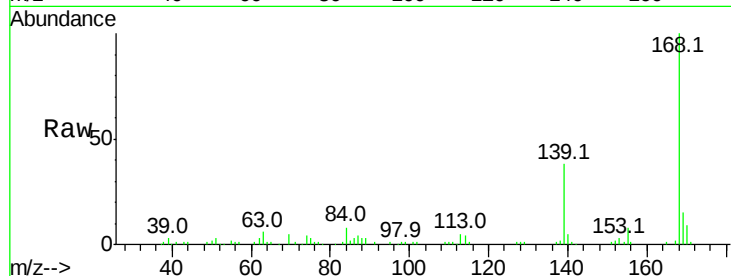
Tot Ion:168 Resp: 68337

Ion Ratio Lower Upper

168 100

139 37.6 30.1 45.1

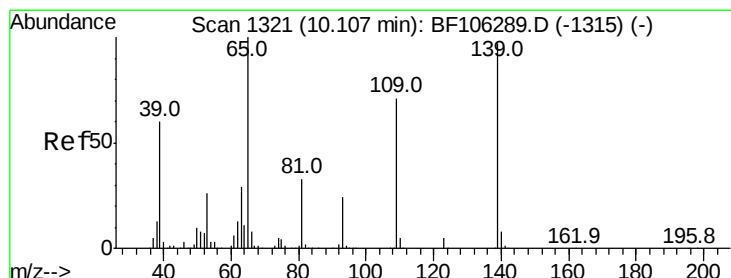
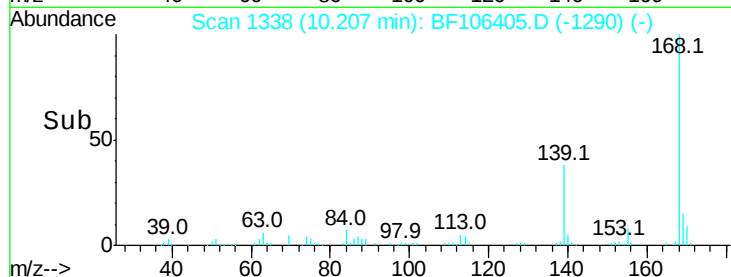
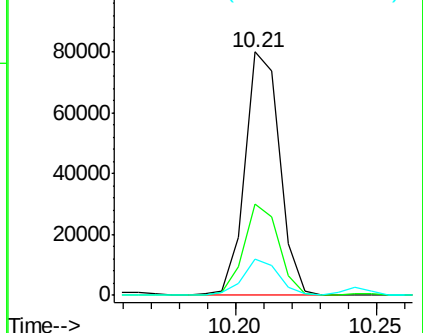
169 14.9 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 7.816 ng

RT: 10.21 min Scan# 1338

Delta R.T. 0.02 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

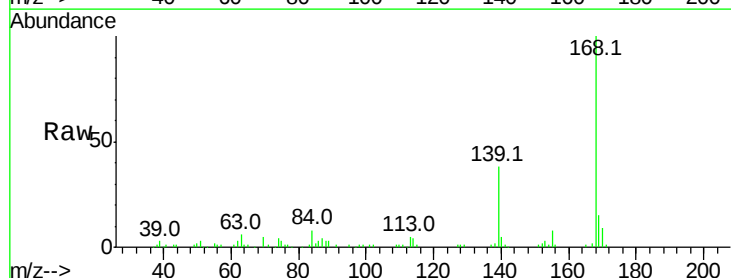
Tgt Ion:139 Resp: 25859

Ion Ratio Lower Upper

139 100

109 2.0 48.4 88.4#

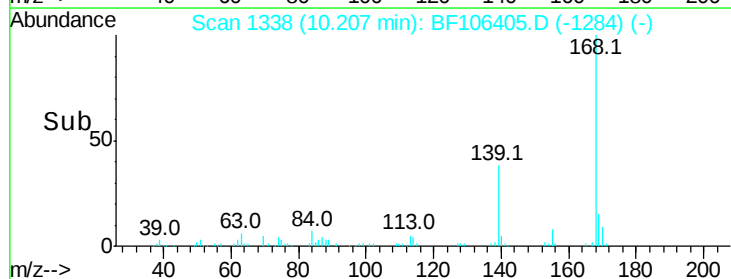
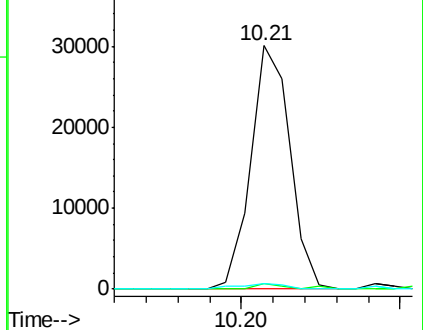
65 2.3 72.6 112.6#

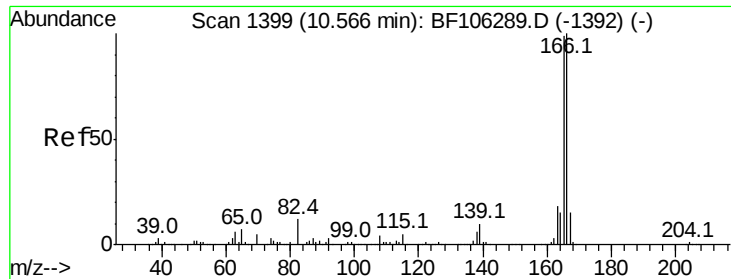


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

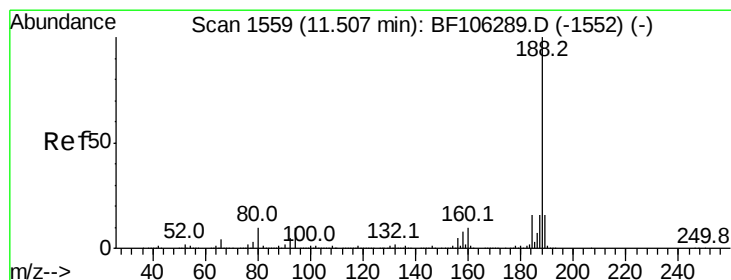
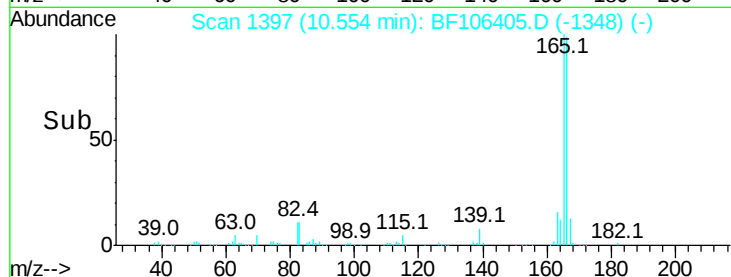
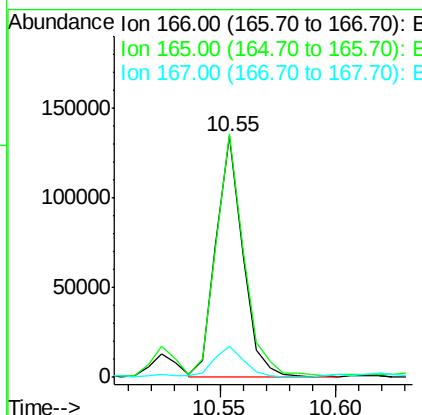
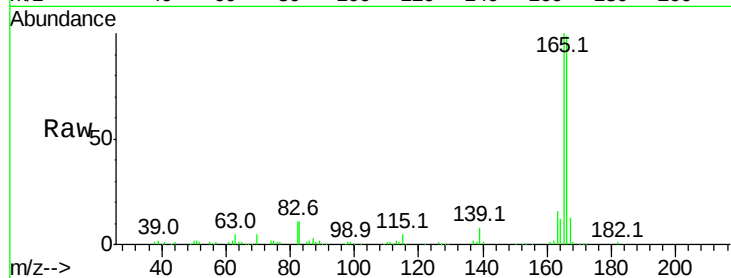




#57
 Fluorene
 Concen: 6.680 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

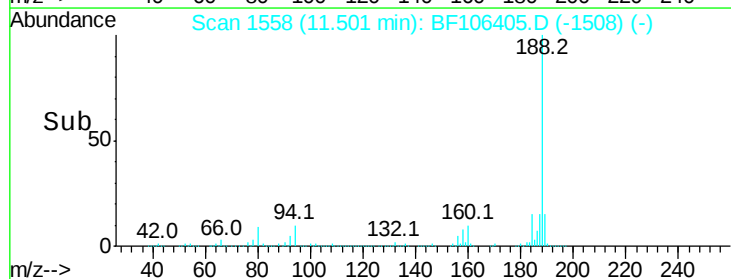
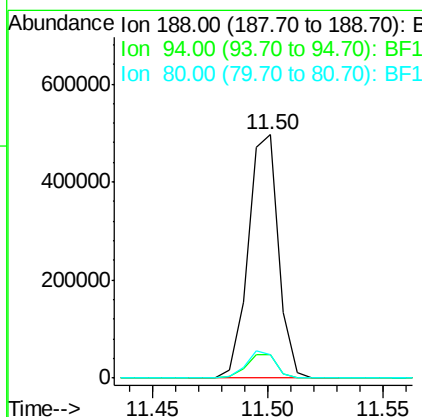
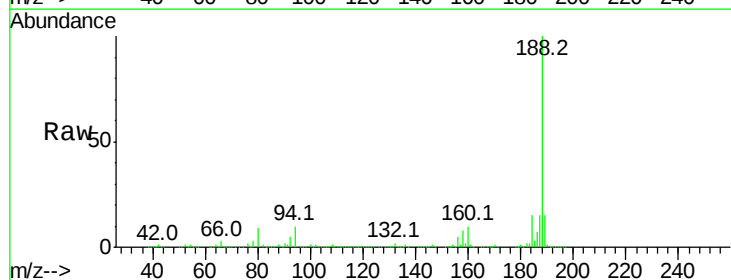
Instrument :
 BNA_F
 ClientSampleId :

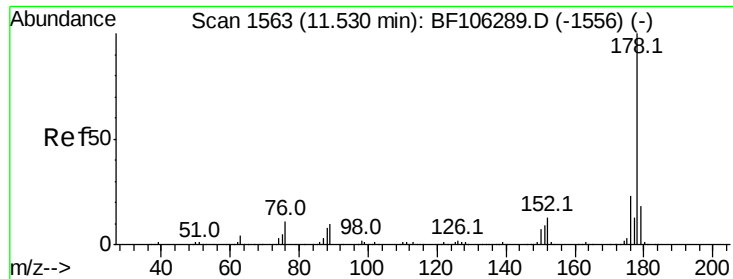
Tot Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.1	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.5	12.7
80	9.4	9.2	13.8

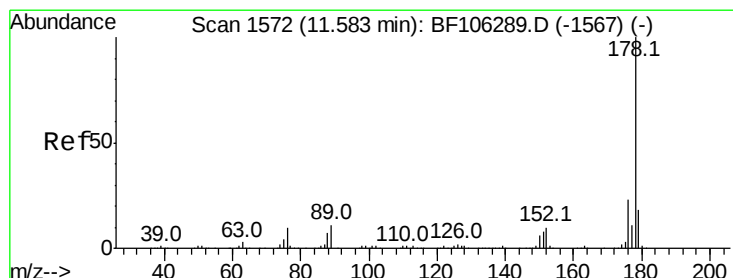
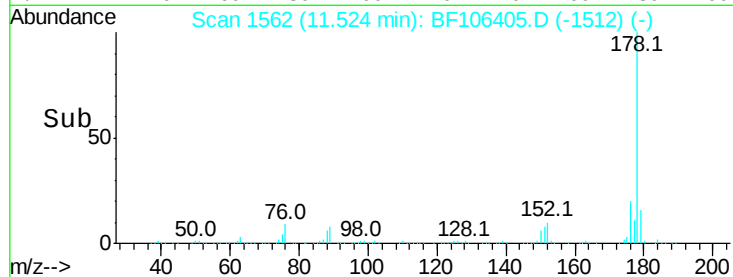
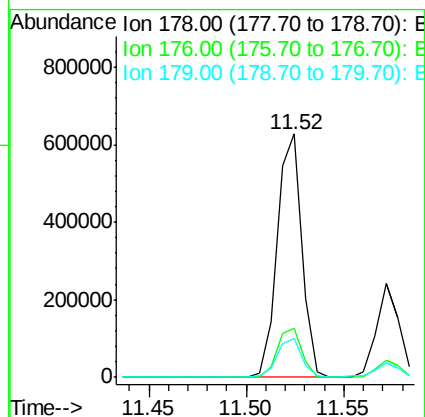
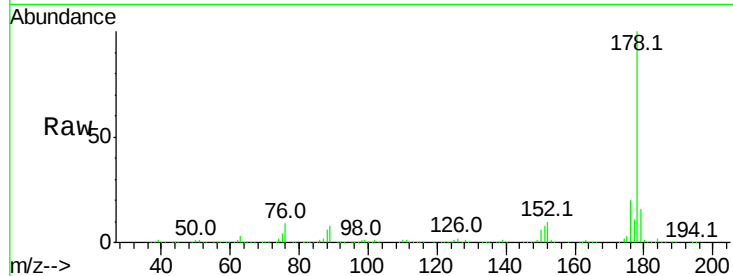




#70
Phenanthrene
Concen: 24.578 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

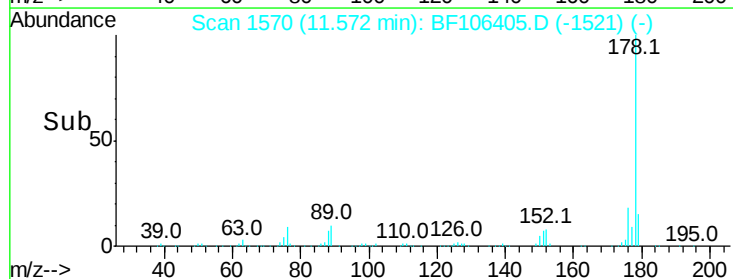
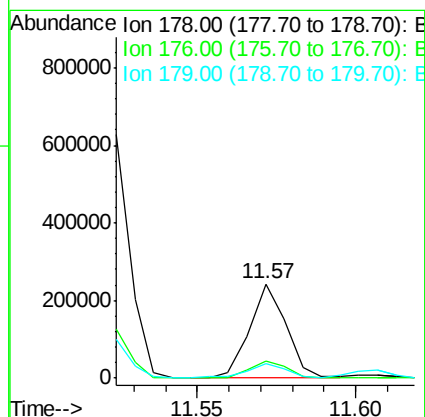
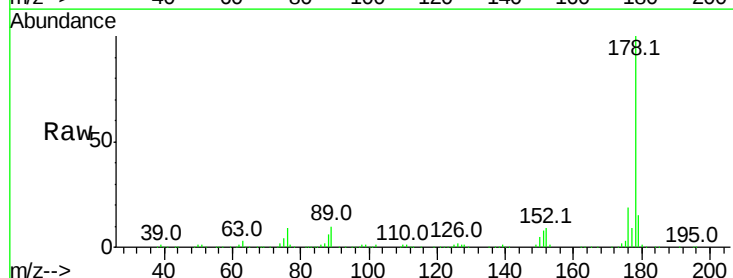
Instrument :
BNA_F
ClientSampleId :

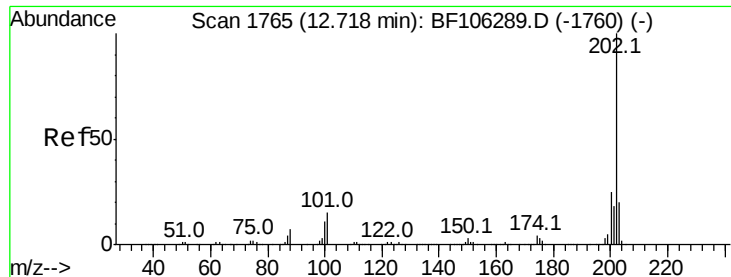
Tot Ion:178 Resp: 547294
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 15.8 13.0 19.6



#71
Anthracene
Concen: 8.551 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion:178 Resp: 190760
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.3 12.6 19.0

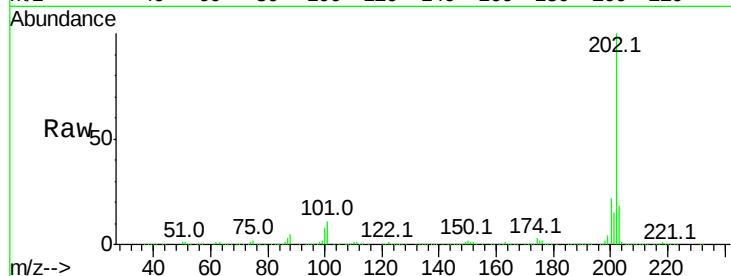




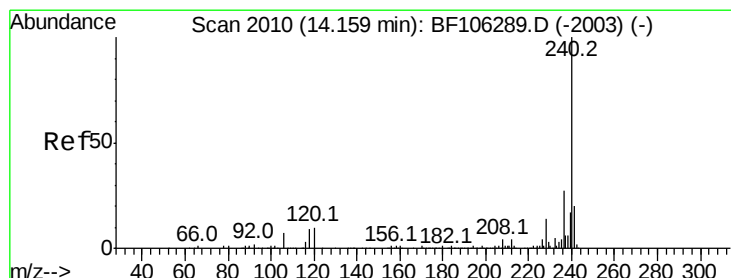
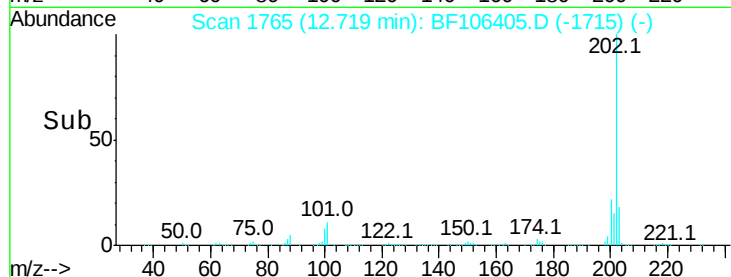
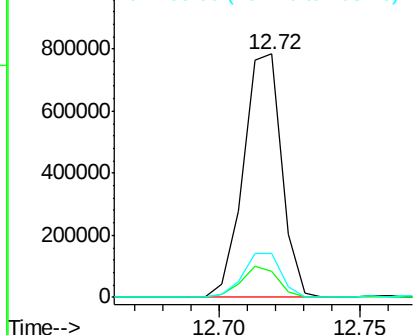
#74
Fluoranthene
Concen: 30.979 ng
RT: 12.72 min Scan# 1765
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Instrument :
BNA_F
ClientSampled :

Tot Ion:202 Resp: 735672
Ion Ratio Lower Upper
202 100
101 10.8 0.0 34.1
203 17.8 0.0 38.1

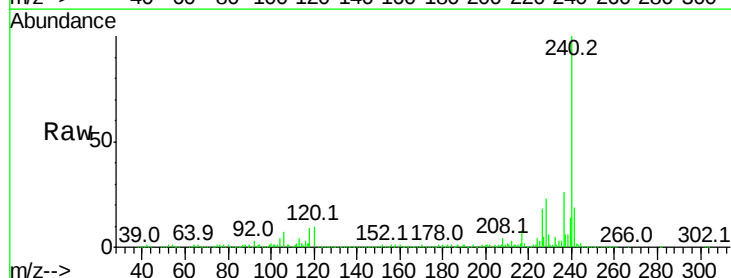


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

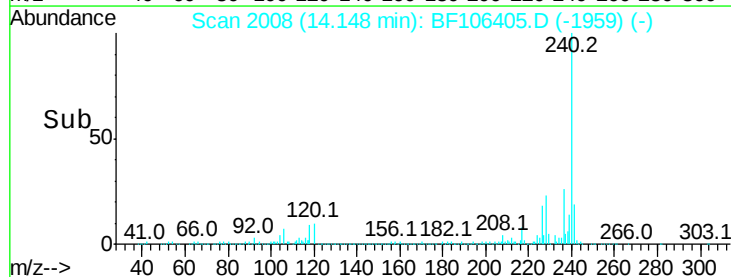
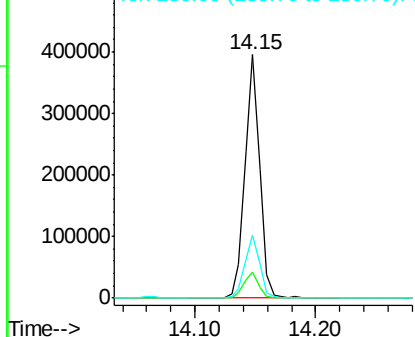


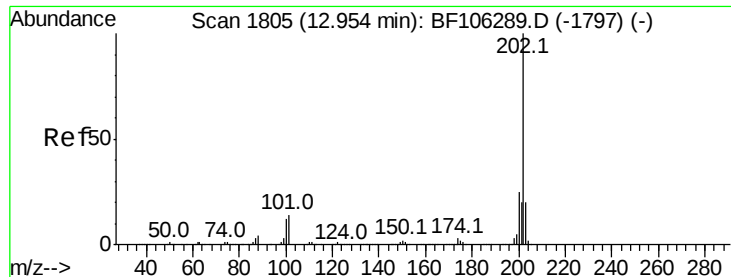
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.15 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion:240 Resp: 336561
Ion Ratio Lower Upper
240 100
120 10.5 9.5 14.3
236 26.1 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: 36.056 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Instrument :

BNA_F

ClientSampled :

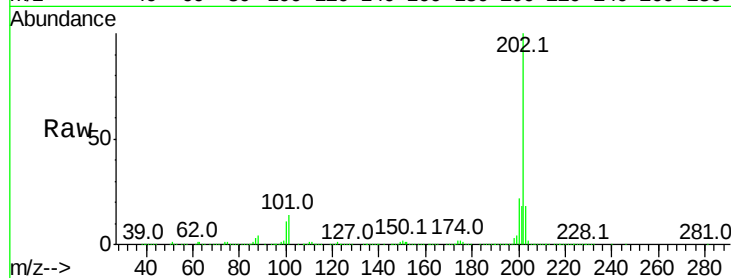
Tot Ion:202 Resp: 759731

Ion Ratio Lower Upper

202 100

200 22.4 17.4 26.2

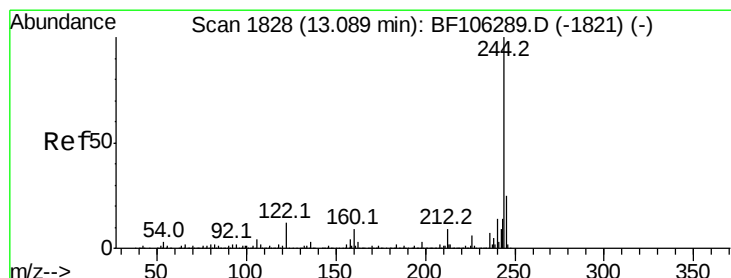
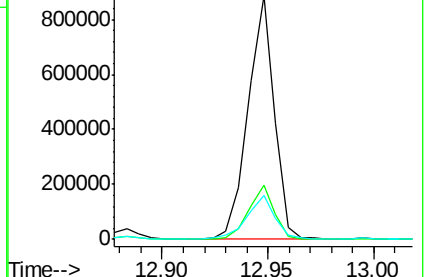
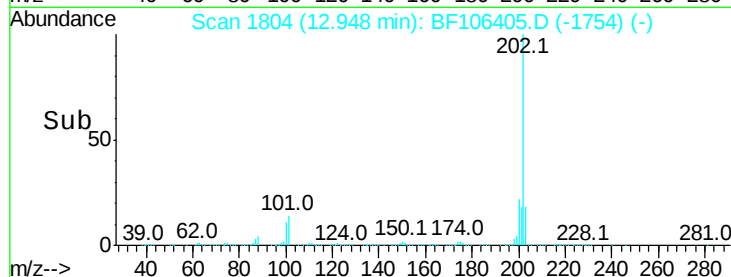
203 18.3 14.3 21.5



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: 1.753 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

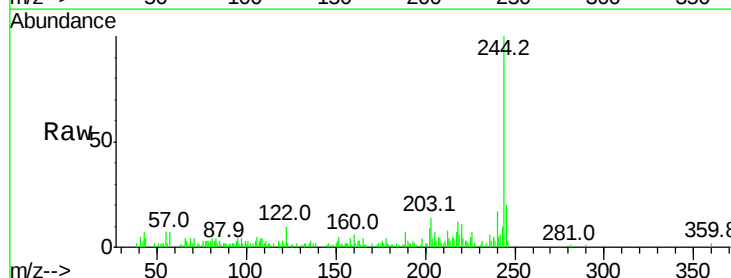
Tgt Ion:244 Resp: 23759

Ion Ratio Lower Upper

244 100

212 7.6 5.4 8.0

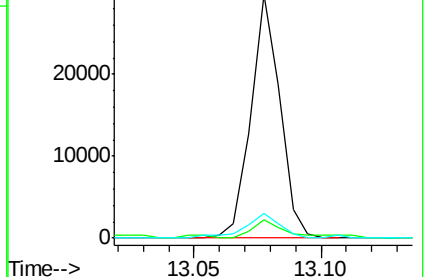
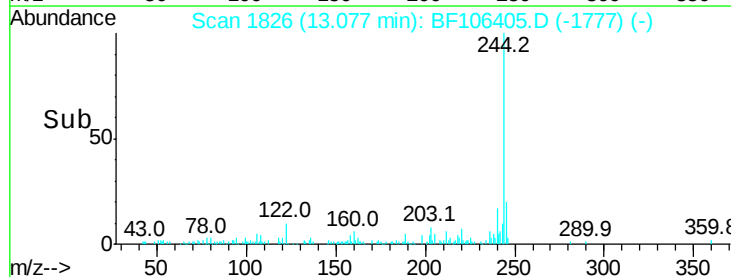
122 10.1 11.0 16.4#

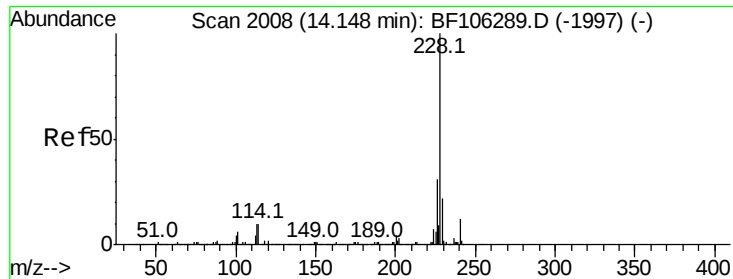


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

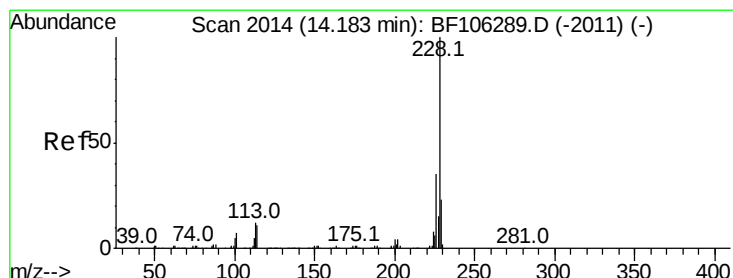
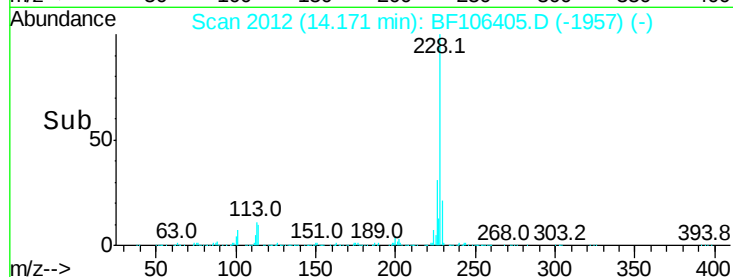
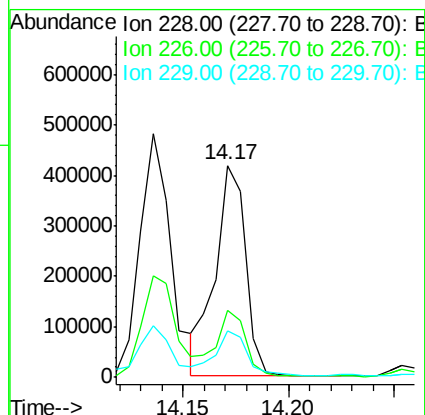
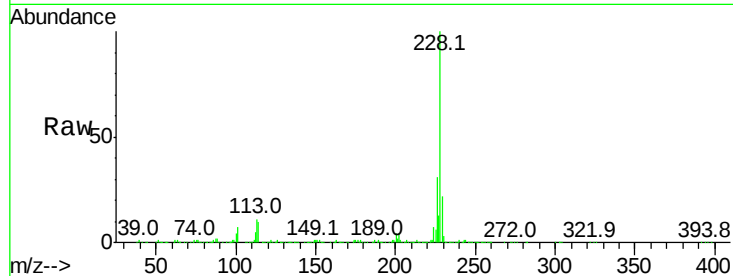




#80
Benzo(a)anthracene
Concen: 20.941 ng
RT: 14.17 min Scan# 2012
Delta R.T. 0.02 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

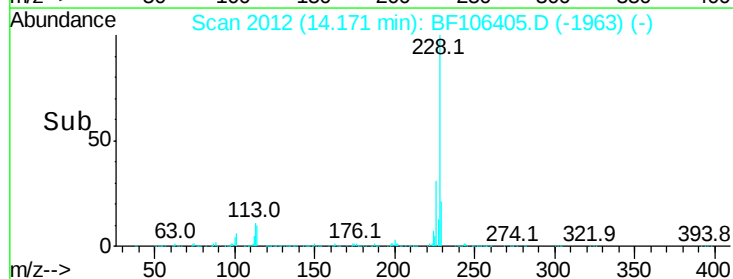
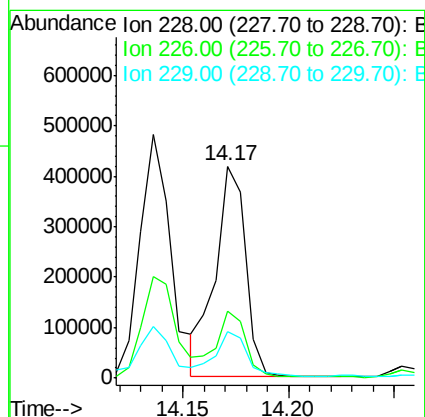
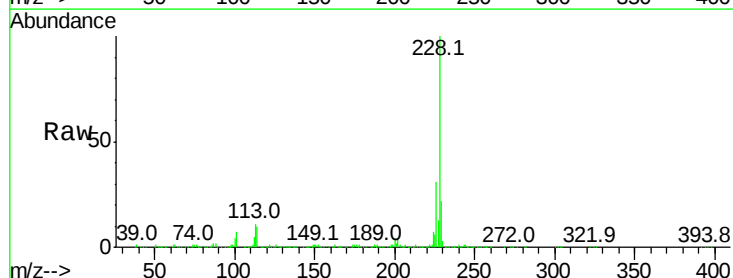
Instrument :
BNA_F
ClientSampleId :

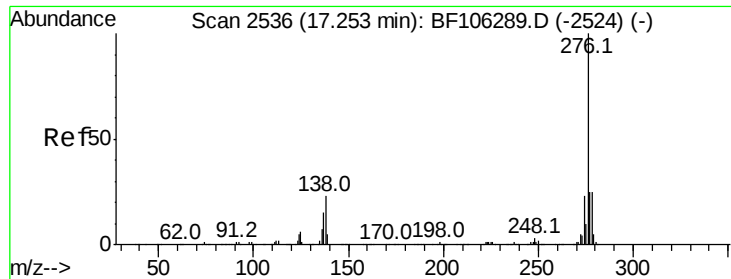
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.6	33.8
229	22.0	15.8	23.6



#82
Chrysene
Concen: 22.936 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF106405.D
Acq: 13 Jun 2018 21:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	22.0	16.2	24.4

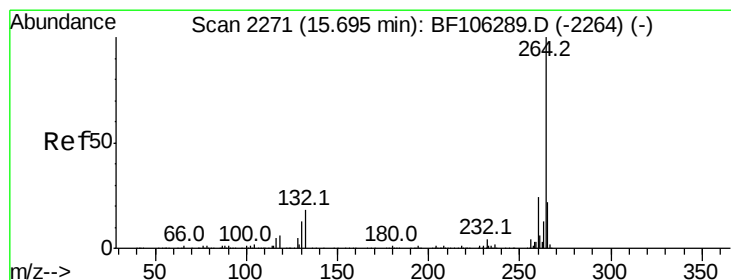
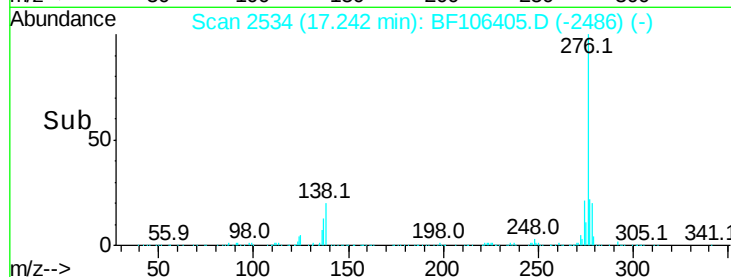
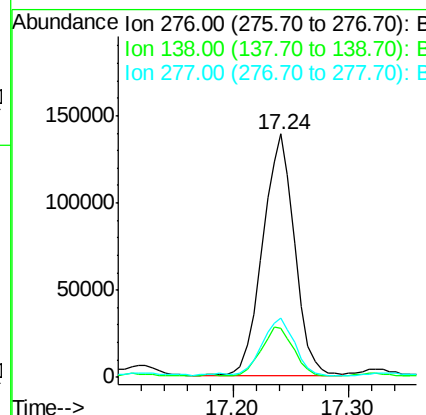
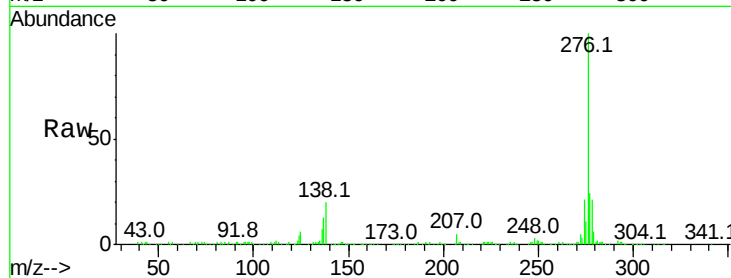




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 18.117 ng
 RT: 17.24 min Scan# 2534
 Delta R.T. -0.02 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

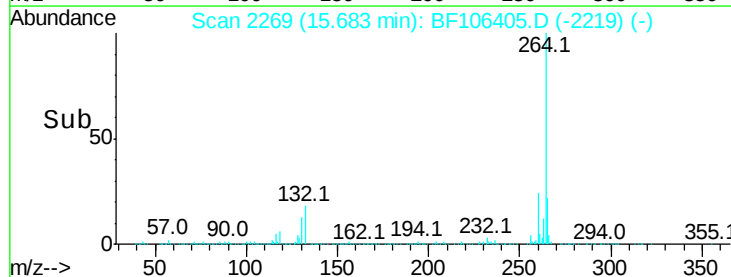
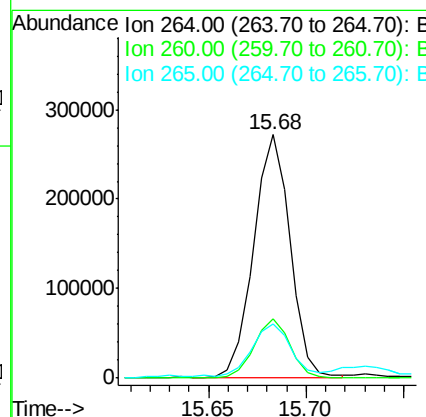
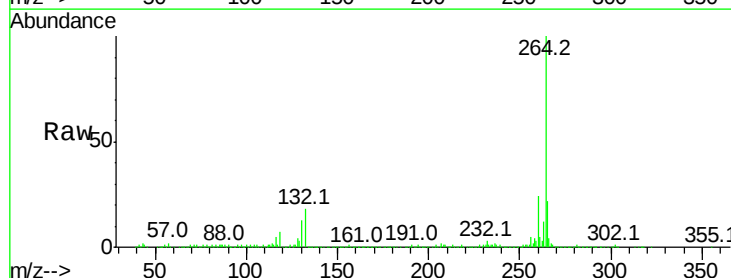
Instrument :
 BNA_F
 ClientSampleId :

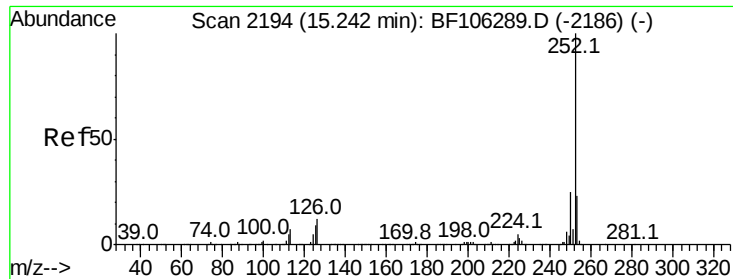
Tot Ion:276 Resp: 264402
 Ion Ratio Lower Upper
 276 100
 138 20.5 25.0 37.6#
 277 24.3 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BF106405.D
 Acq: 13 Jun 2018 21:37

Tgt Ion:264 Resp: 349773
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.2 28.8
 265 22.2 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 43.969 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Instrument :

BNA_F

ClientSampleId :

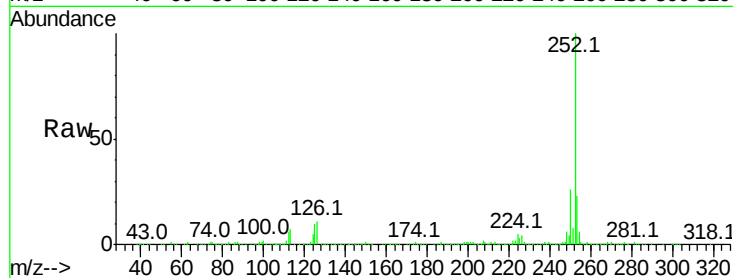
Tot Ion:252 Resp: 929648

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

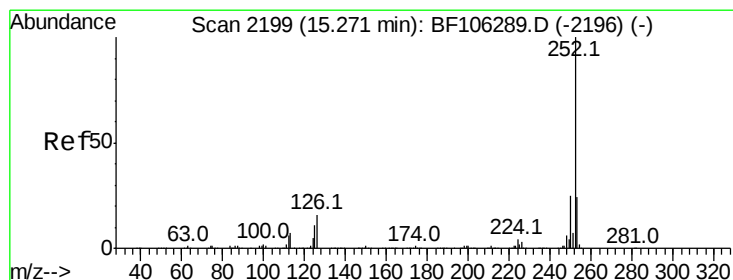
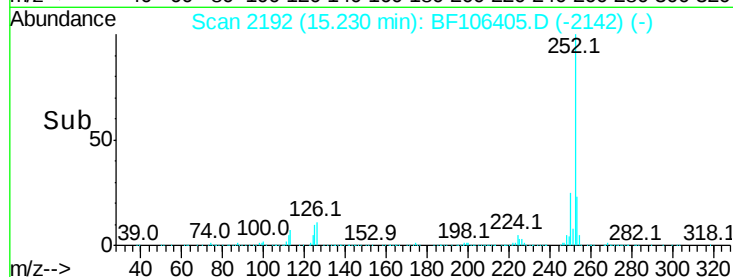
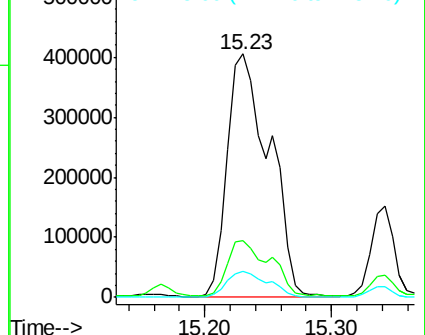
125 10.5 9.0 13.6



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: 44.396 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.04 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

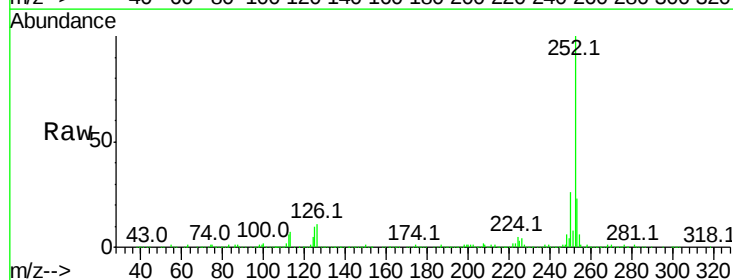
Tgt Ion:252 Resp: 929648

Ion Ratio Lower Upper

252 100

253 23.4 17.9 26.9

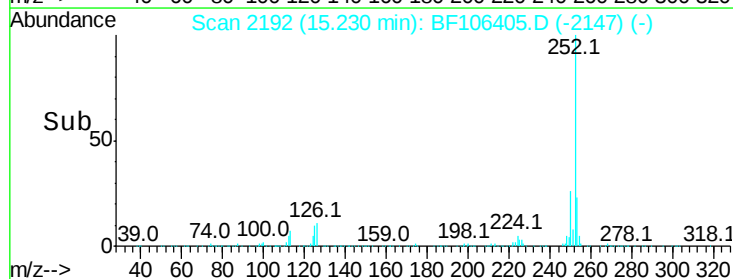
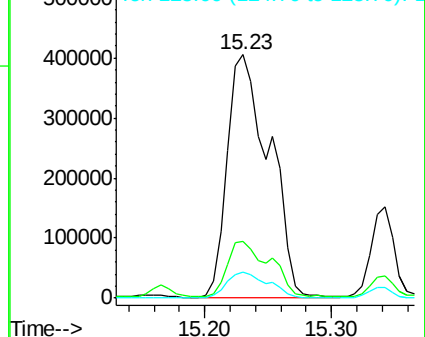
125 10.5 10.2 15.2

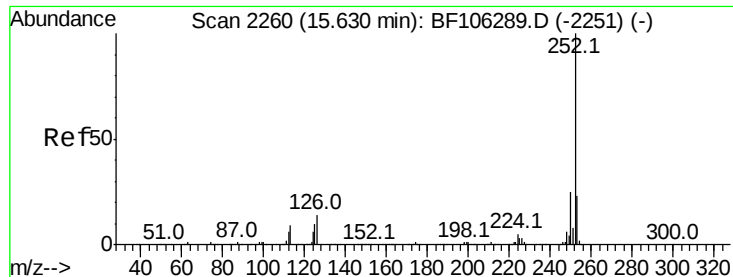


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 29.107 ng

RT: 15.62 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Instrument :

BNA_F

ClientSampled :

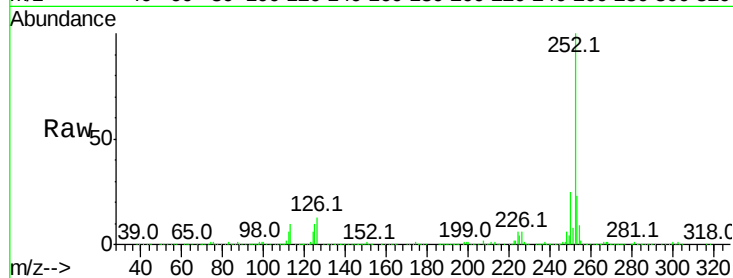
Tot Ion:252 Resp: 553553

Ion Ratio Lower Upper

252 100

253 23.4 17.1 25.7

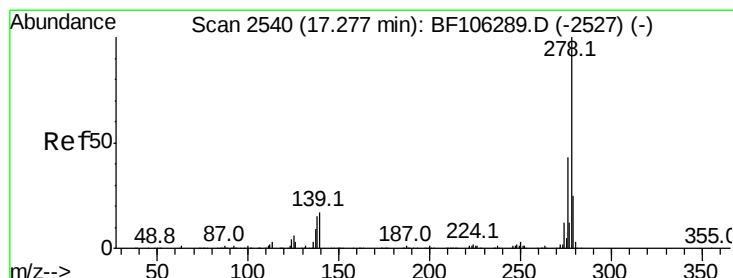
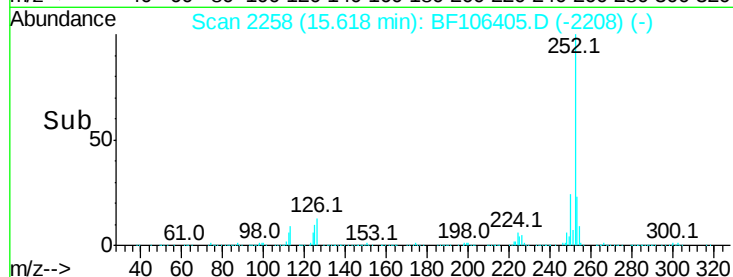
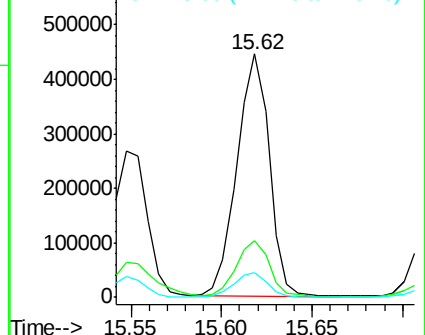
125 10.3 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 4.339 ng

RT: 17.25 min Scan# 2535

Delta R.T. -0.03 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

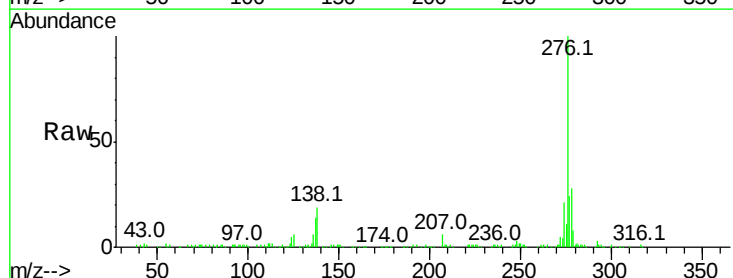
Tgt Ion:278 Resp: 68800

Ion Ratio Lower Upper

278 100

139 0.0 15.9 23.9#

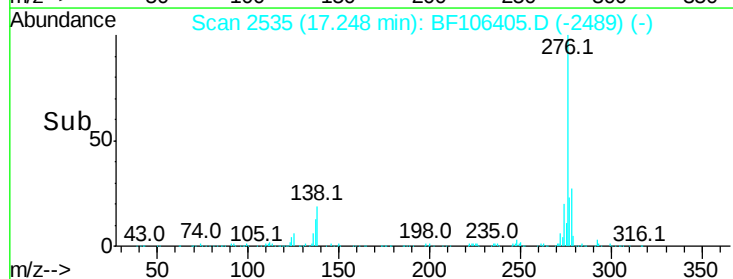
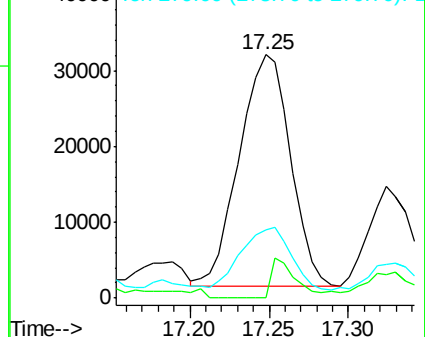
279 28.0 19.0 28.4

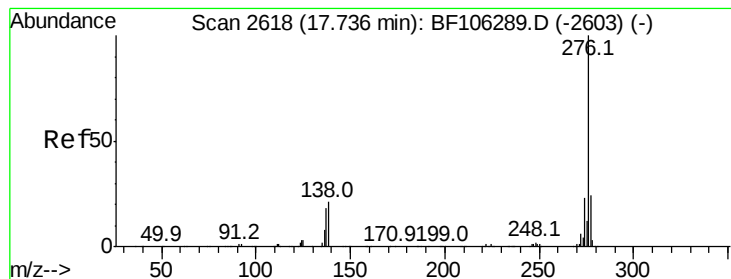


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 16.144 ng

RT: 17.72 min Scan# 2615

Delta R.T. -0.02 min

Lab File: BF106405.D

Acq: 13 Jun 2018 21:37

Instrument :

BNA_F

ClientSampleId :

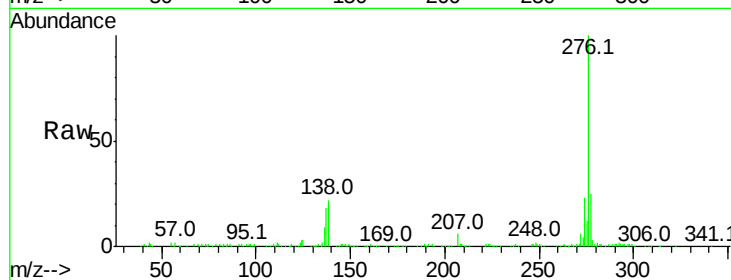
Tot Ion: 276 Resp: 248753

Ion Ratio Lower Upper

276 100

277 24.6 17.9 26.9

138 22.0 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

