

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
 Data File : BF104869.D
 Acq On : 27 Apr 2018 8:17
 Operator : JU/SJ
 Sample : J2520-04 10X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 27 11:11:11 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	96001	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	386743	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	152161	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	231335	20.00	ng	0.00
75) Chrysene-d12	13.98	240	204771	20.00	ng	0.00
86) Perylene-d12	15.44	264	152579	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	61075	9.73	ng	0.00
7) Phenol-d6	6.43	99	77076	9.99	ng	-0.01
23) Nitrobenzene-d5	7.36	82	40469	6.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	12385	7.85	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	77185	8.01	ng	0.00
78) Terphenyl-d14	12.91	244	53994	6.01	ng	-0.01

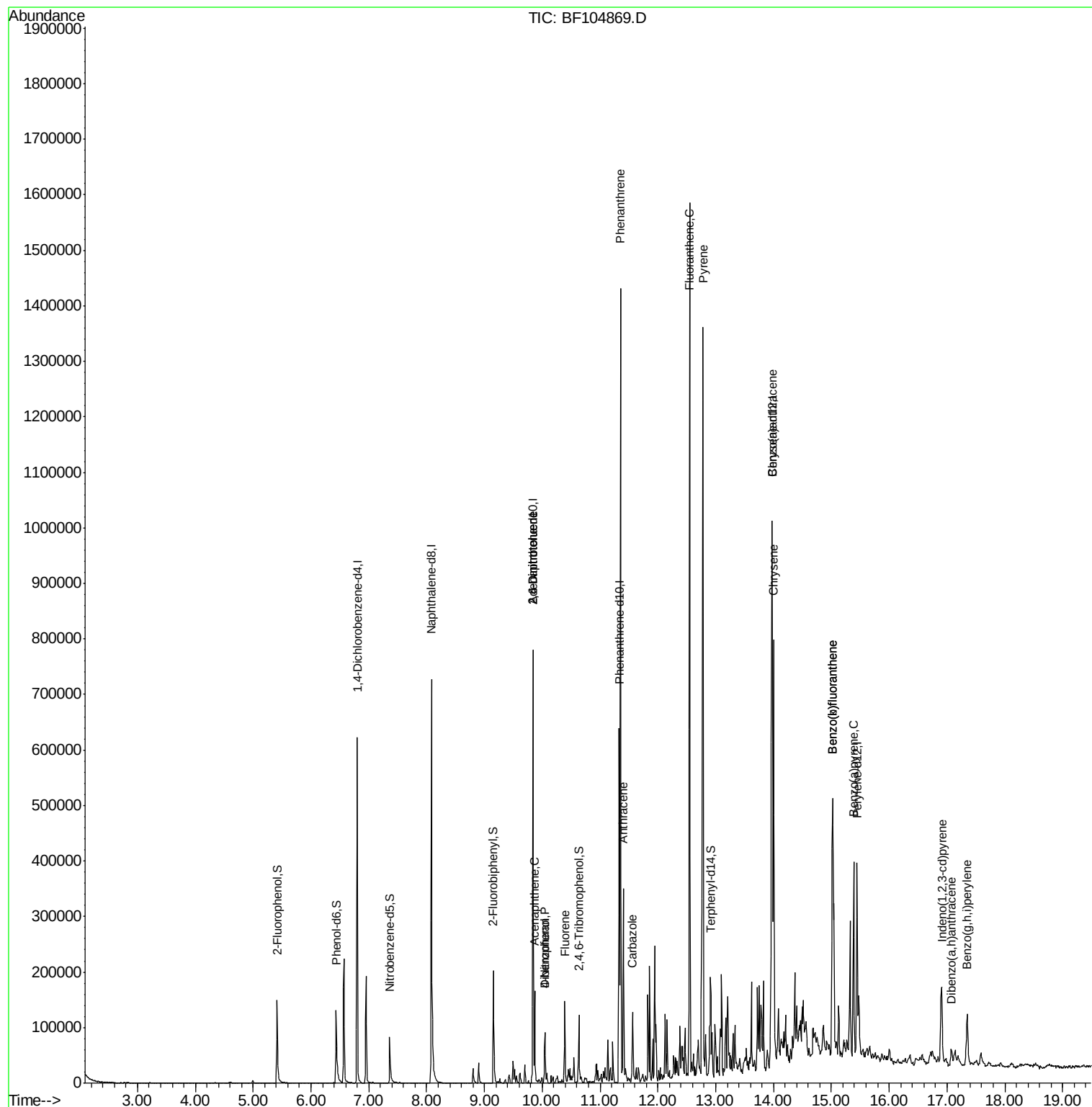
Target Compounds				Qvalue		
9) Benzaldehyde	6.57	77	1210	Below Cal	#	82
50) 2,6-Dinitrotoluene	9.84	165	20285	9.136	ng	25
51) Acenaphthene	9.87	154	34090	3.527	ng	95
54) Dibenzofuran	10.05	168	37315	2.770	ng	99
55) 4-Nitrophenol	10.05	139	14214	6.961	ng	9
56) 2,4-Dinitrotoluene	9.84	165	20285	6.965	ng	23
57) Fluorene	10.39	166	43381	4.425	ng	98
70) Phenanthrene	11.36	178	546125	42.391	ng	98
71) Anthracene	11.40	178	128717	9.829	ng	99
72) Carbazole	11.56	167	52003	4.064	ng	99
74) Fluoranthene	12.55	202	650422	48.322	ng	96
76) Benzidine	12.91	184	588	Below Cal	#	66
77) Pyrene	12.78	202	571557	37.656	ng	99
80) Benzo(a)anthracene	13.97	228	308551	25.222	ng	100
82) Chrysene	14.00	228	254829	20.280	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	80892	7.578	ng	93
87) Benzo(b)fluoranthene	15.02	252	342381	35.529	ng	97
88) Benzo(k)fluoranthene	15.02	252	342381	37.633	ng	100
89) Benzo(a)pyrene	15.39	252	160200	18.580	ng	98
90) Dibenzo(a,h)anthracene	17.08	278	18771	2.651	ng	92
91) Benzo(g,h,i)perylene	17.35	276	77015	11.225	ng	93

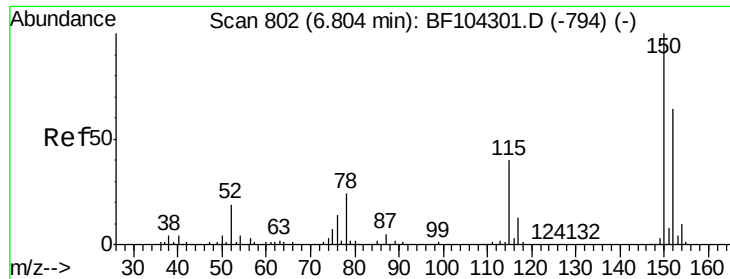
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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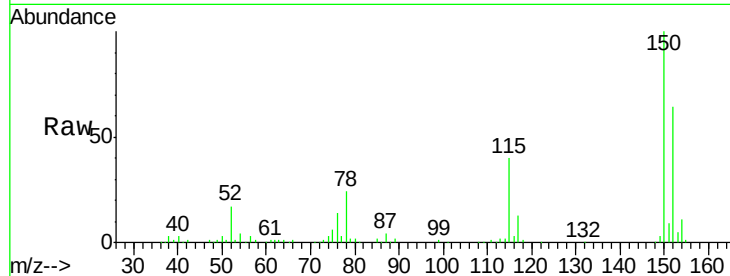


#1

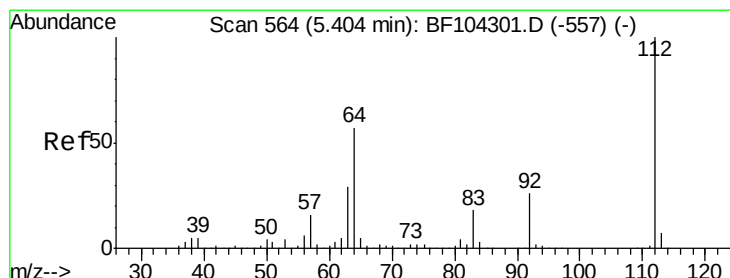
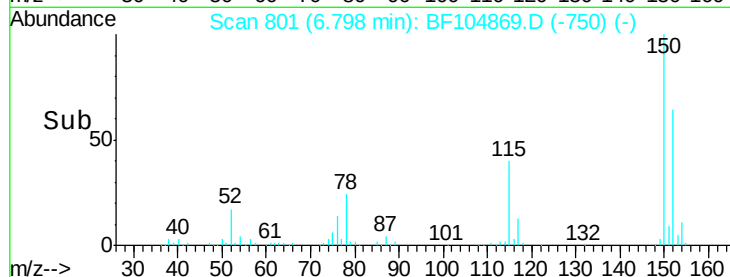
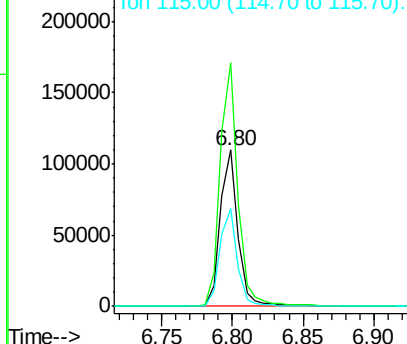
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 96001
Ion Ratio Lower Upper
152 100
150 156.1 124.6 186.8
115 62.7 50.1 75.1



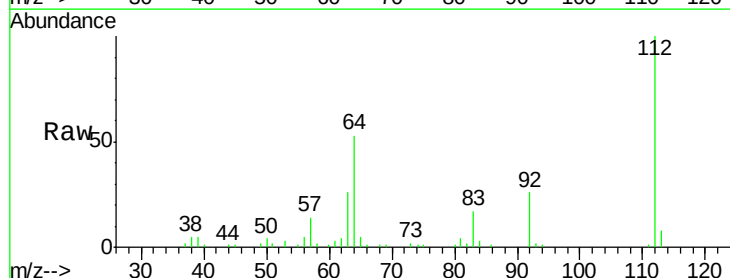
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



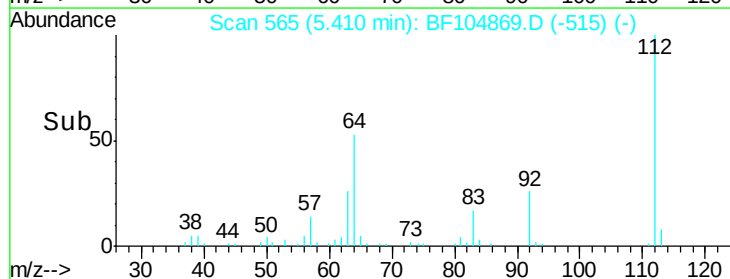
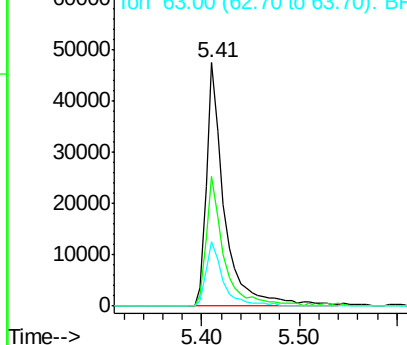
#5

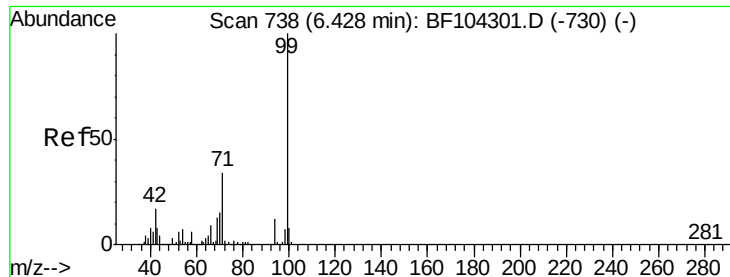
2-Fluorophenol
Concen: 9.728 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion:112 Resp: 61075
Ion Ratio Lower Upper
112 100
64 53.1 47.9 71.9
63 26.3 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: 9.991 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

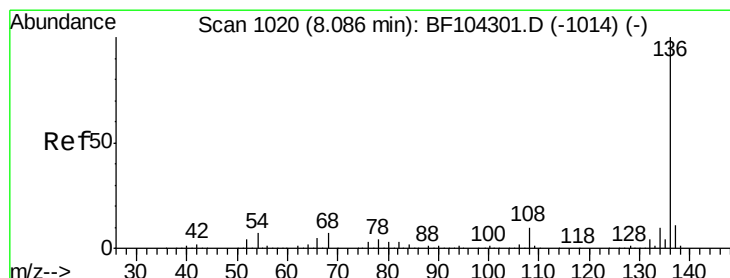
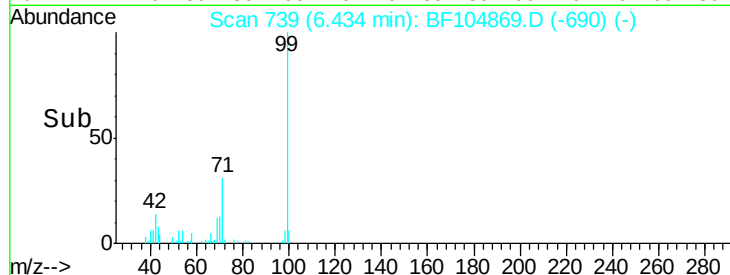
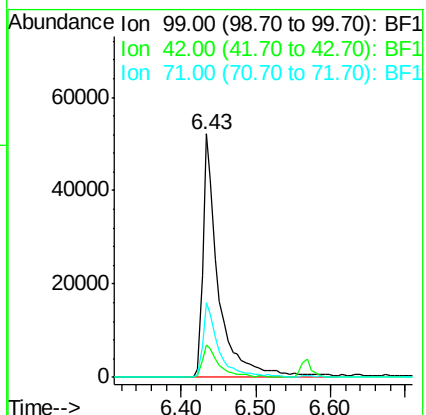
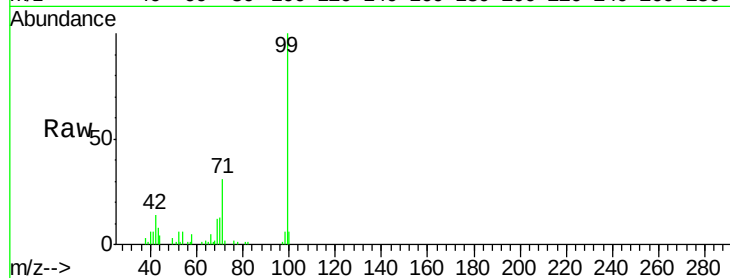
Tot Ion: 99 Resp: 77076

Ion Ratio Lower Upper

99 100

42 13.5 14.5 21.7#

71 30.6 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion: 136 Resp: 386743

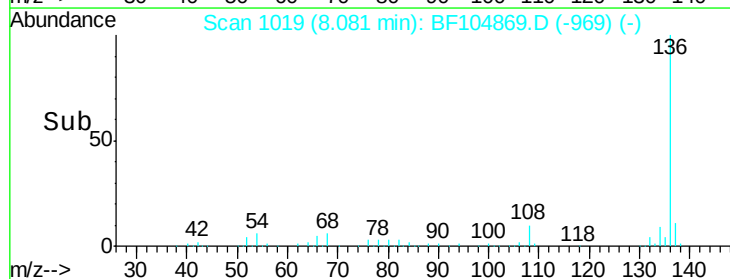
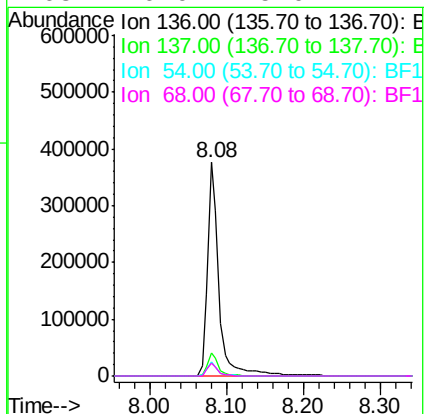
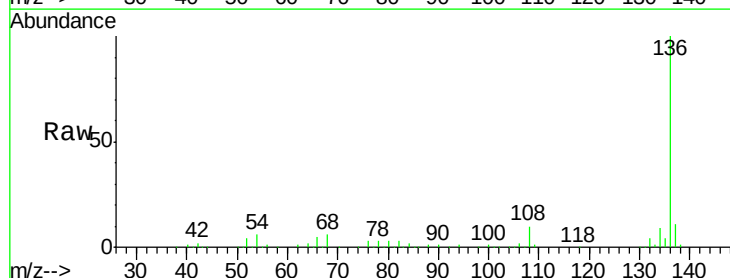
Ion Ratio Lower Upper

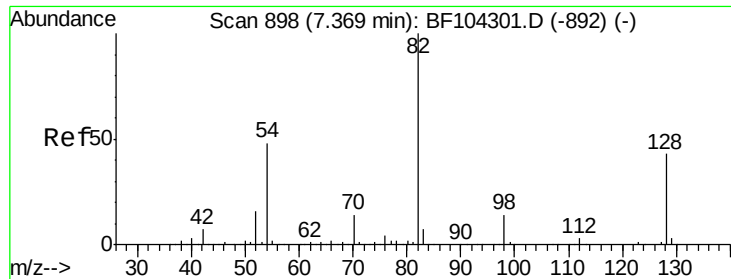
136 100

137 10.9 8.9 13.3

54 6.5 6.6 9.8#

68 6.0 5.0 7.4

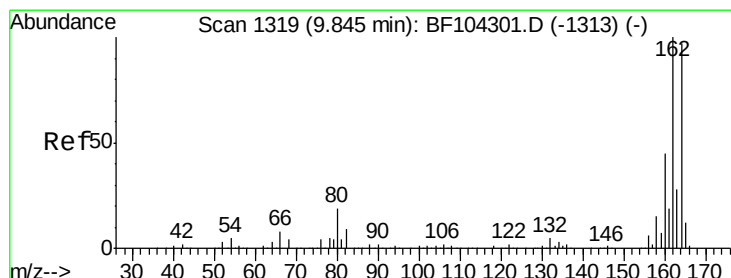
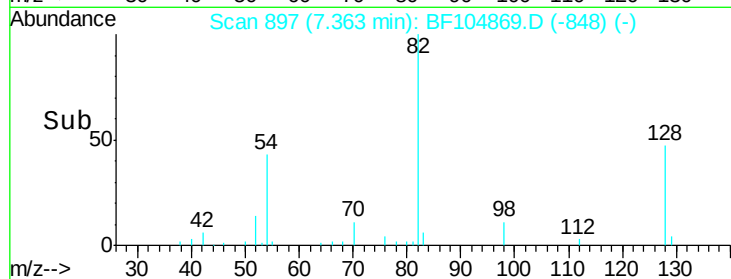
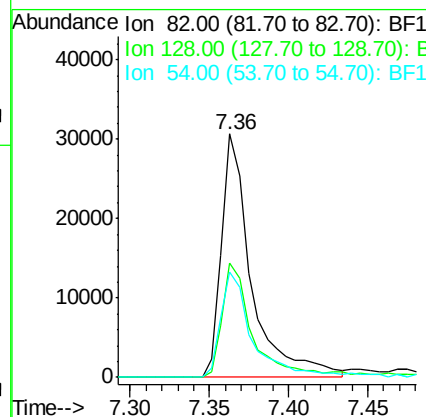
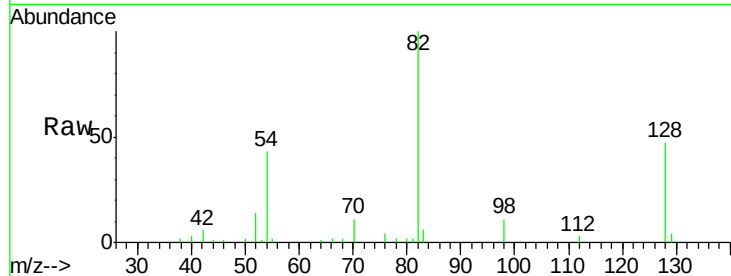




#23
 Nitrobenzene-d5
 Concen: 6.833 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

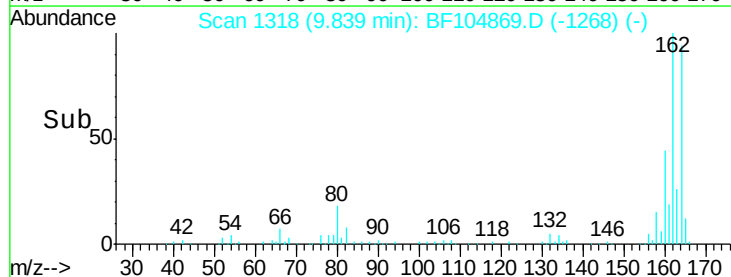
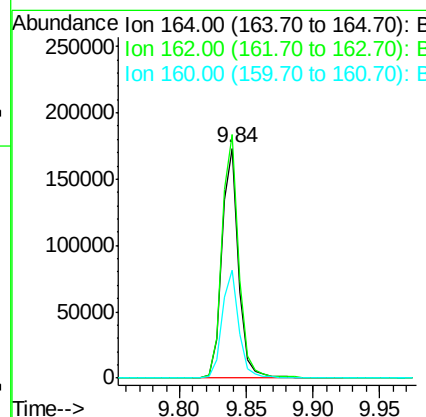
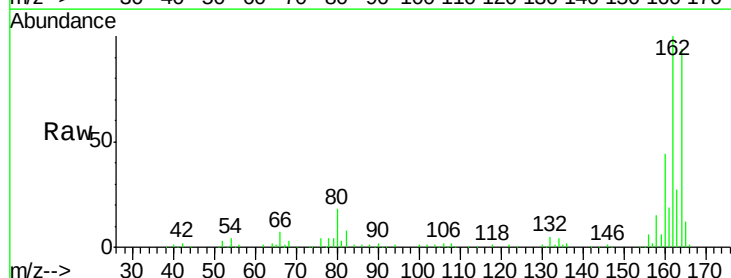
Instrument :
 BNA_F
 ClientSampleId :

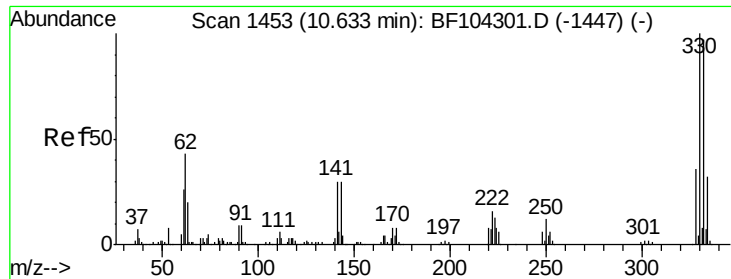
Tot Ion	82	Resp	40469
Ion Ratio	100	Lower	Upper
128	47.0	36.1	54.1
54	43.1	41.4	62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	164	Resp	152161
Ion Ratio	100	Lower	Upper
162	106.0	86.1	129.1
160	46.8	38.3	57.5

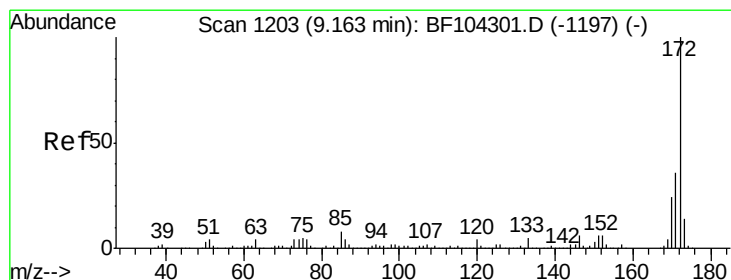
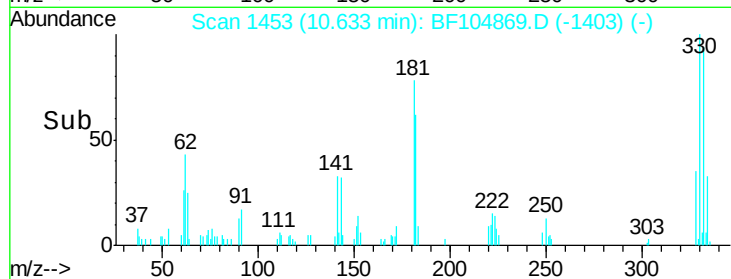
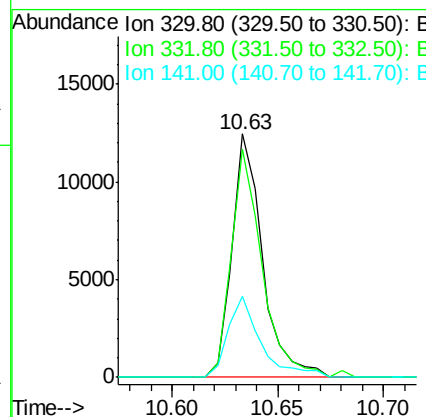
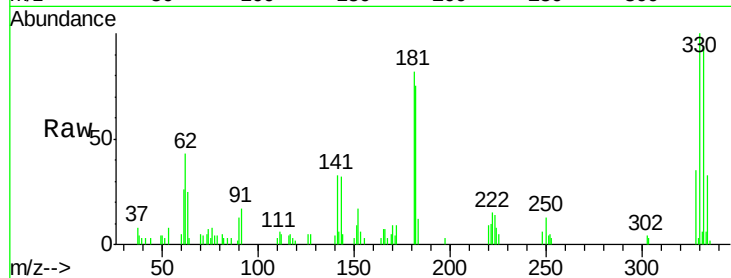




#41
 2,4,6-Tribromophenol
 Concen: 7.847 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

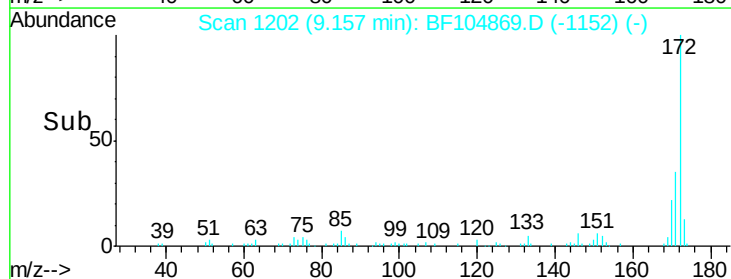
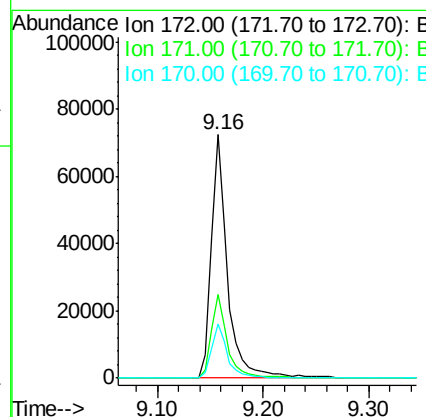
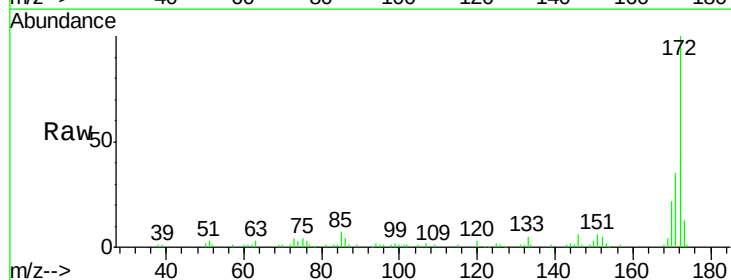
Instrument :
 BNA_F
 ClientSampleId :

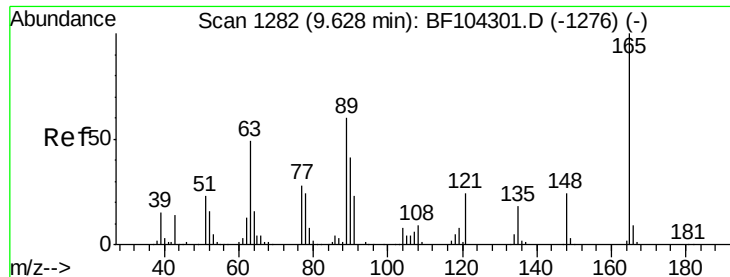
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.0	115.6
141	35.9	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 8.013 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.7	44.5
170	22.5	19.6	29.4

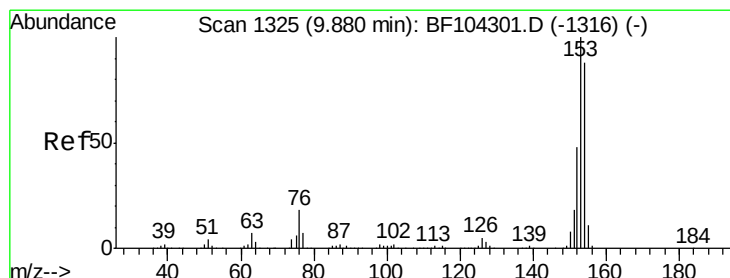
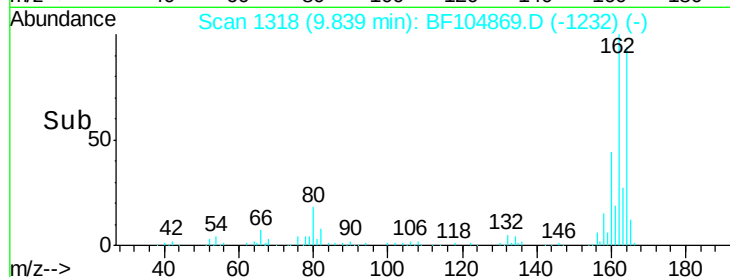
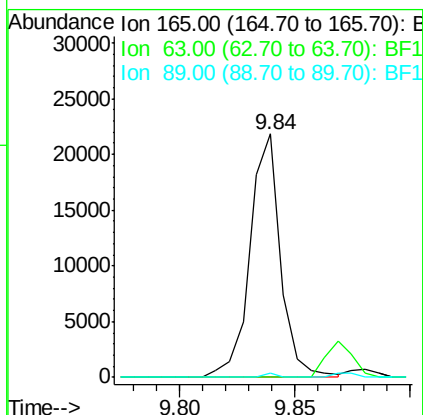
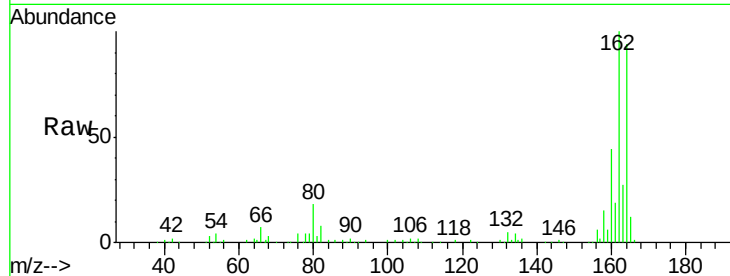




#50
 2,6-Dinitrotoluene
 Concen: 9.136 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.21 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

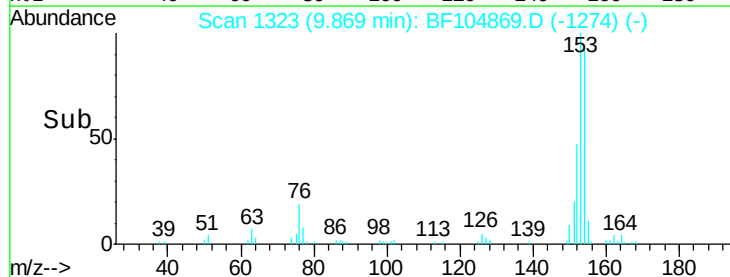
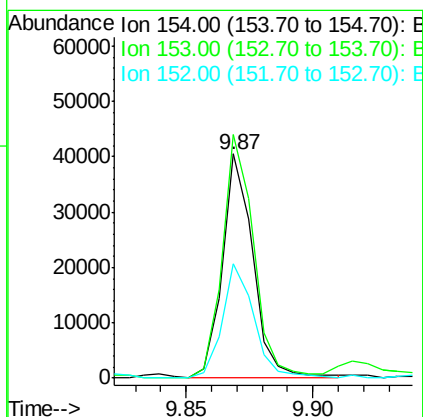
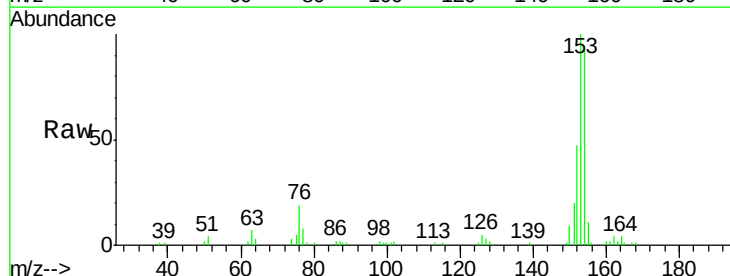
Instrument :
 BNA_F
 ClientSampleId :

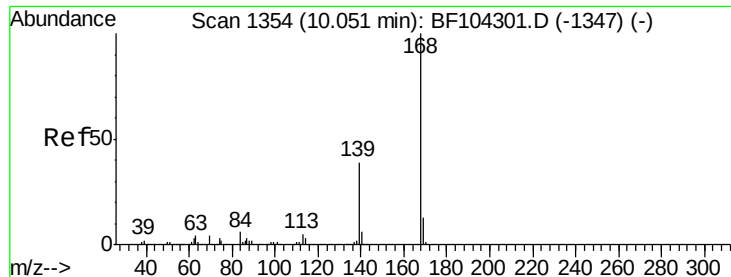
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	1.9	44.0	66.0#



#51
 Acenaphthene
 Concen: 3.527 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.7	91.2	136.8
152	51.0	43.8	65.8





#54

Dibenzofuran

Concen: 2.770 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104869.D

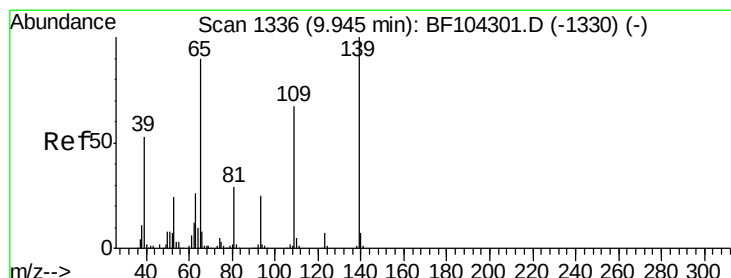
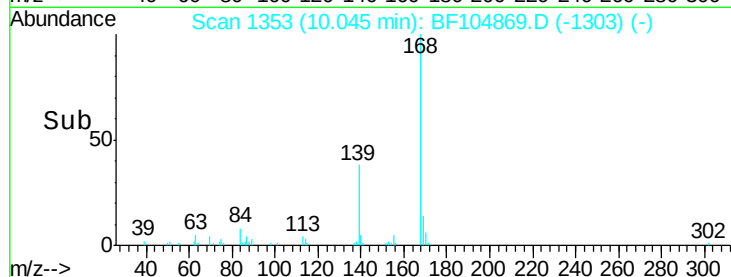
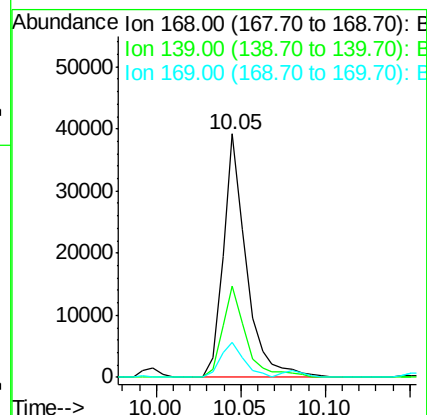
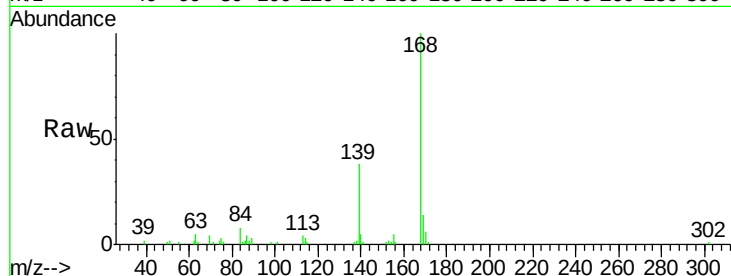
Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

Tot Ion:168	Resp:	37315
Ion	Ratio	Lower Upper
168	100	
139	37.6	30.1 45.1
169	14.4	10.9 16.3



#55

4-Nitrophenol

Concen: 6.961 ng

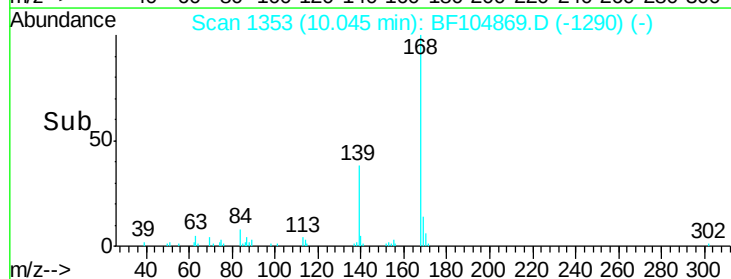
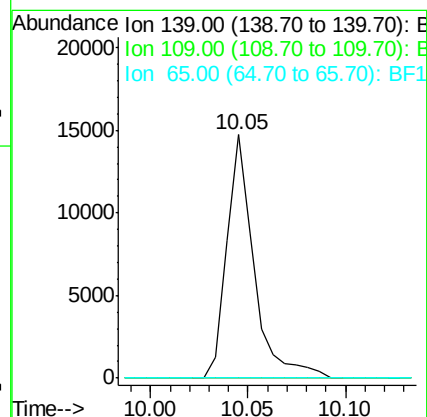
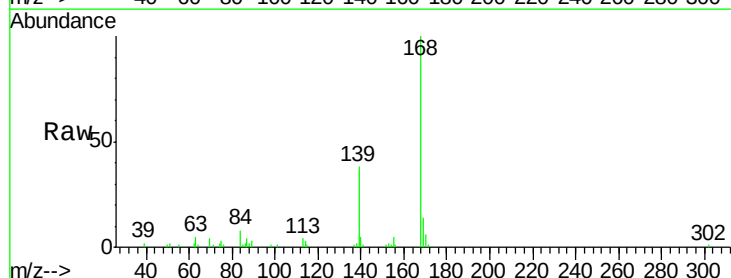
RT: 10.05 min Scan# 1353

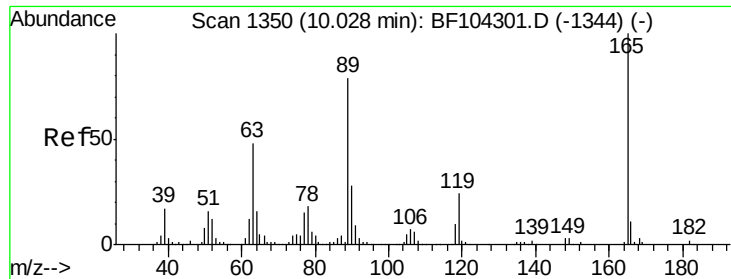
Delta R.T. 0.07 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:139	Resp:	14214
Ion	Ratio	Lower Upper
139	100	
109	0.0	48.4 88.4#
65	0.0	72.6 112.6#

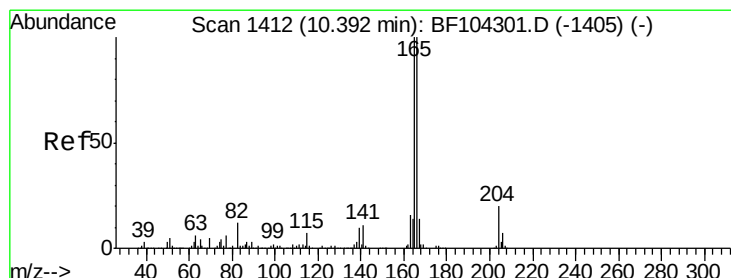
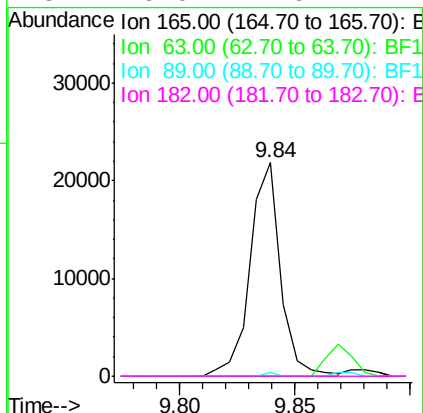
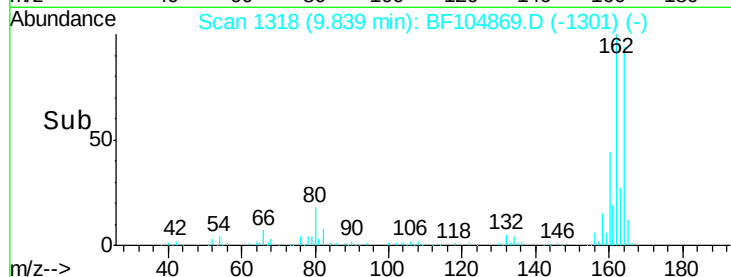
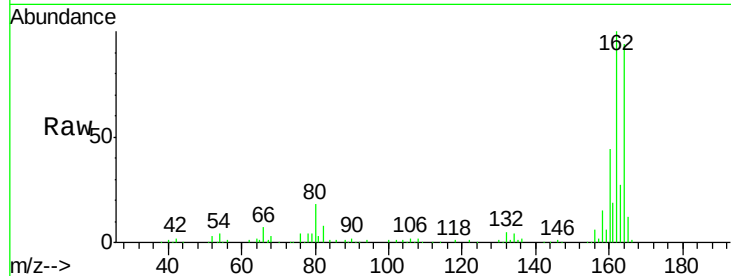




#56
2,4-Dinitrotoluene
Concen: 6.965 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.20 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

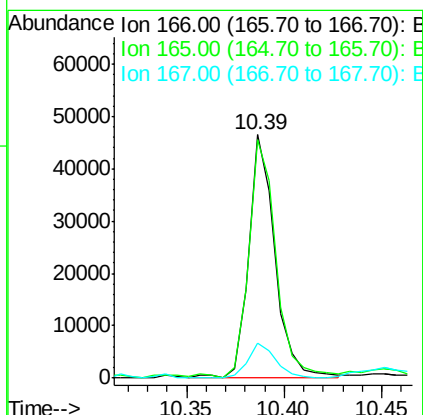
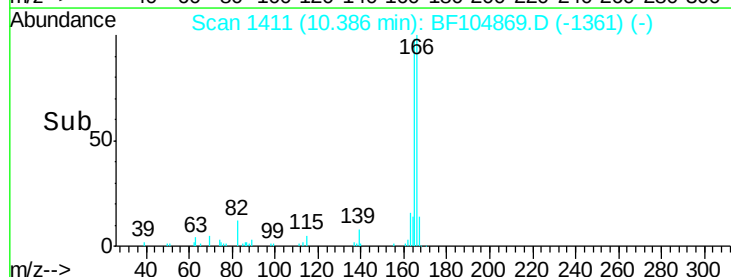
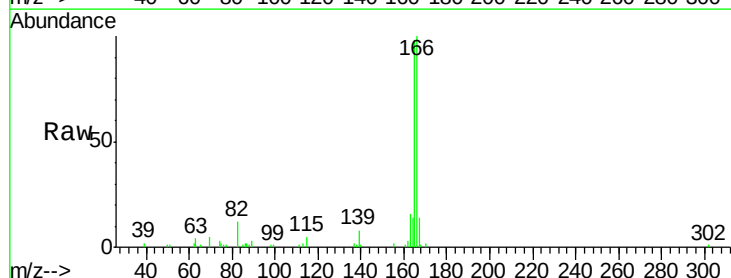
Instrument :
BNA_F
ClientSampleId :

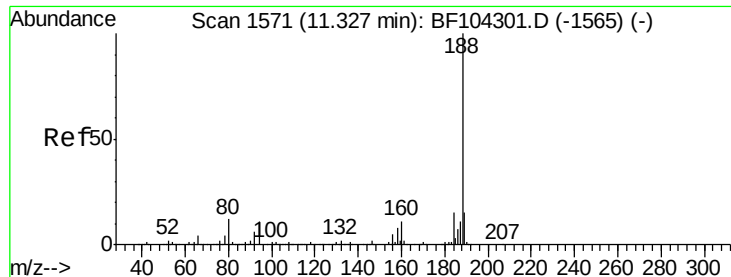
Tot Ion:	165	Resp:	20285
Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	1.9	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 4.425 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion:	166	Resp:	43381
Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.8	119.8
167	14.3	10.6	16.0

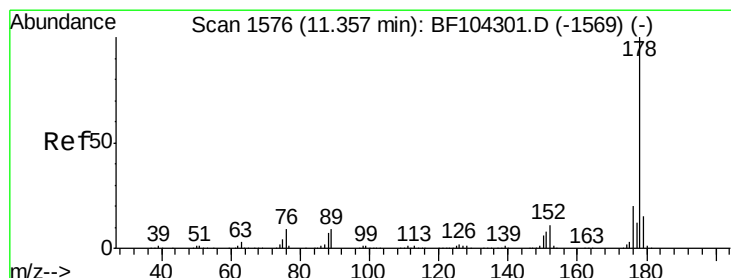
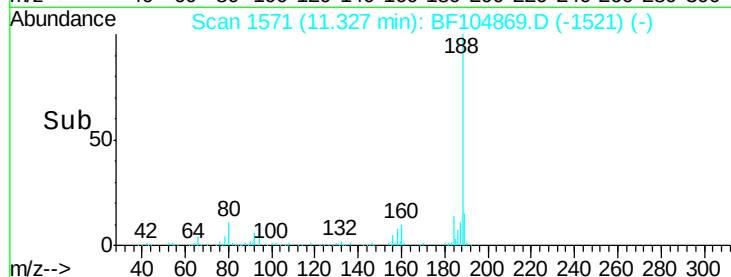
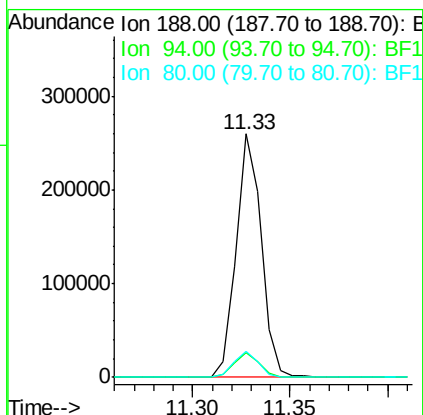
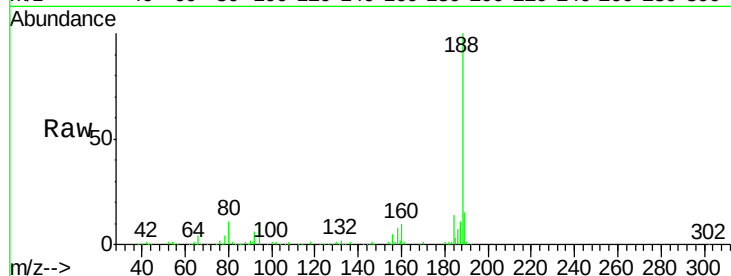




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

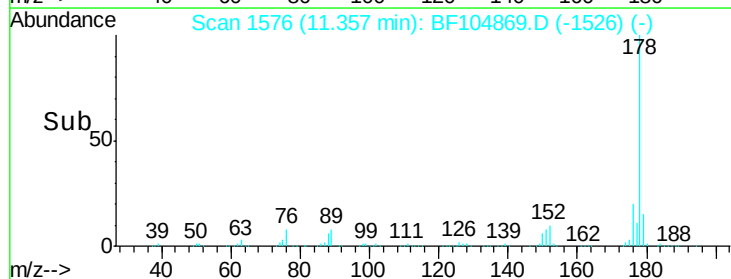
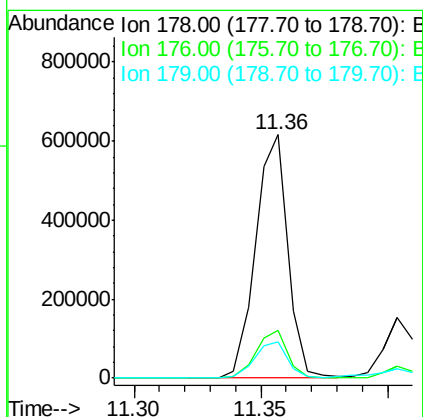
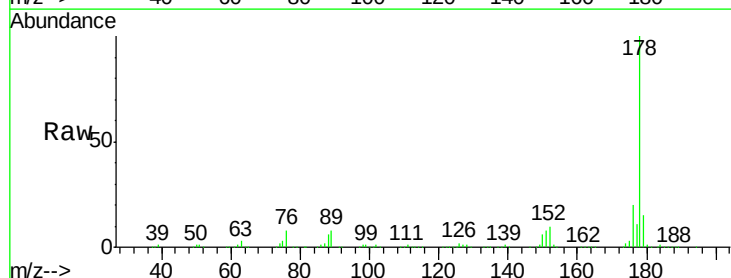
Instrument :
BNA_F
ClientSampleId :

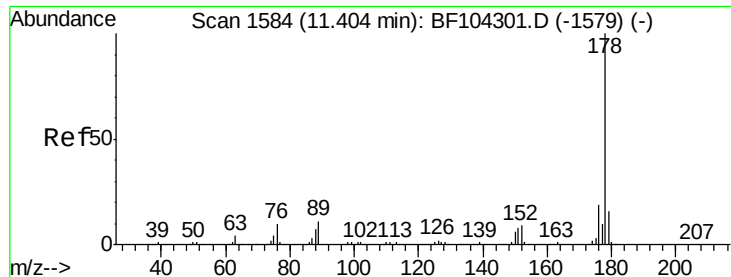
Tot Ion	188	Resp	231335
Ion Ratio	100		
Lower	8.5		
Upper	12.7		
80	10.8	9.2	13.8



#70
Phenanthrene
Concen: 42.391 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	178	Resp	546125
Ion Ratio	100		
Lower	15.8		
Upper	23.8		
176	19.5	13.0	19.6
179	15.0		





#71

Anthracene

Concen: 9.829 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

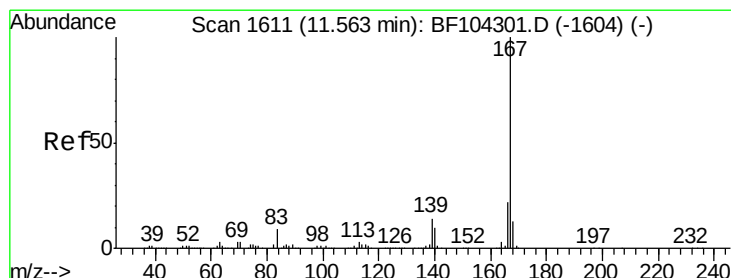
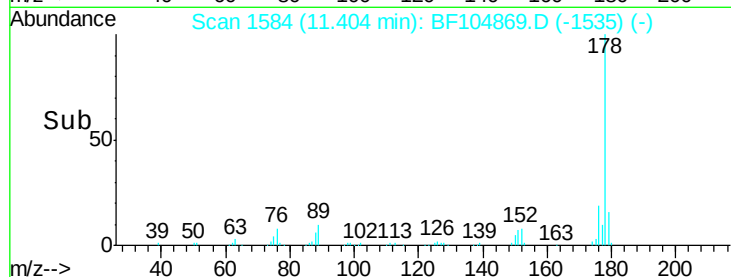
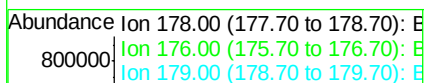
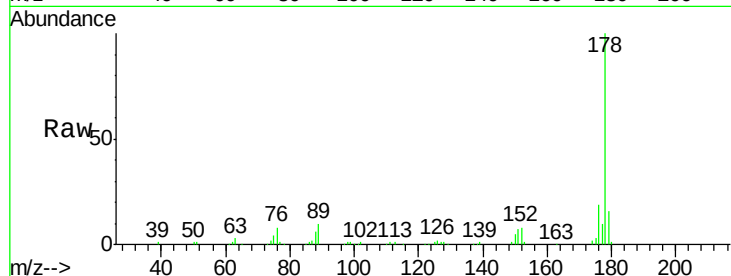
Tot Ion:178 Resp: 128717

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.7	12.6	19.0

178 100

176 18.6 15.4 23.2

179 15.7 12.6 19.0



#72

Carbazole

Concen: 4.064 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

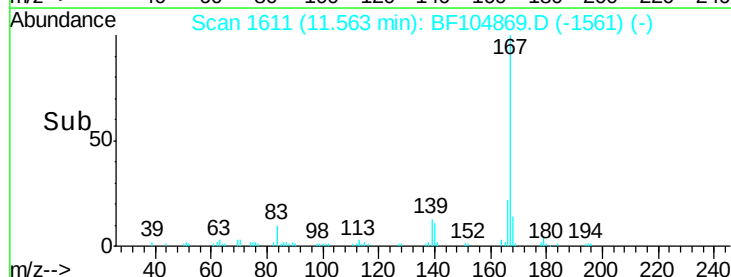
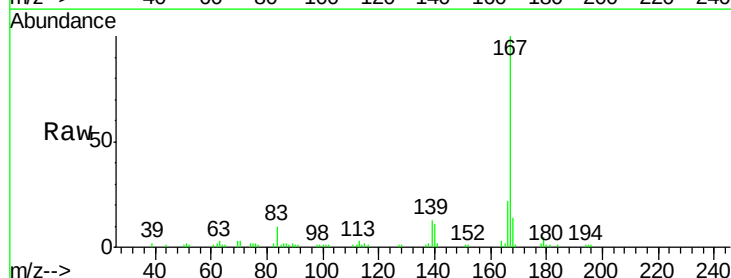
Tgt Ion:167 Resp: 52003

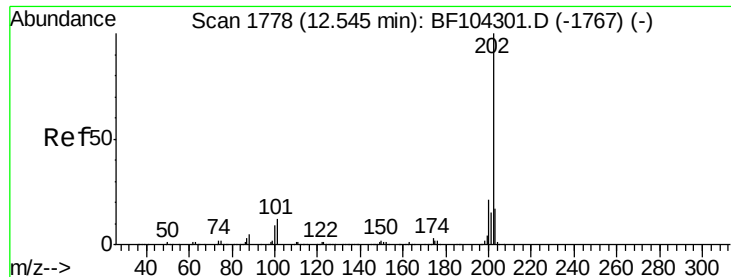
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.6	26.4
139	12.9	10.9	16.3

167 100

166 21.7 17.6 26.4

139 12.9 10.9 16.3





#74

Fluoranthene

Concen: 48.322 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.00 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

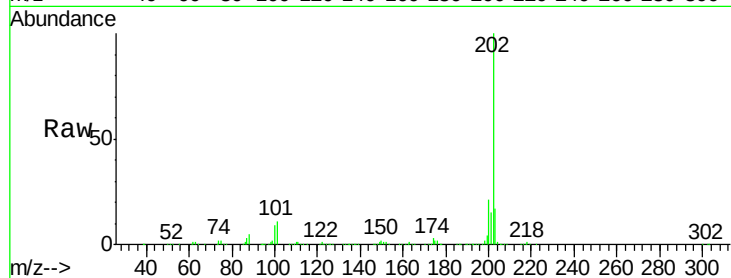
Tot Ion:202 Resp: 650422

Ion Ratio Lower Upper

202 100

101 11.3 0.0 34.1

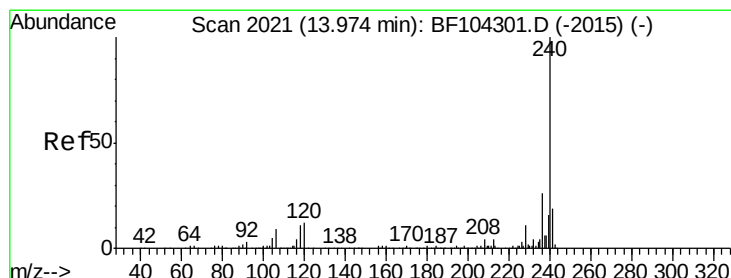
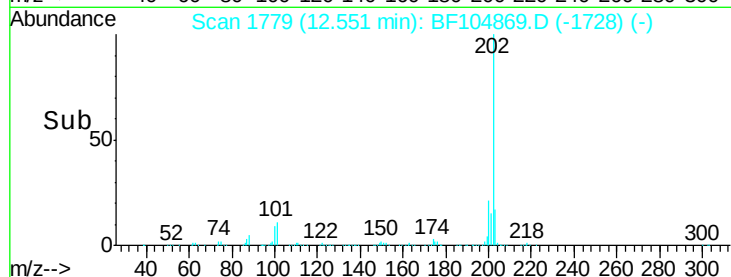
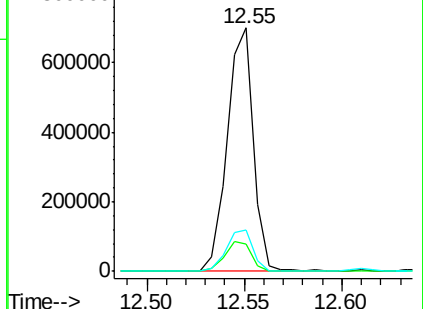
203 17.1 0.0 38.1



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: BF104869.D

Acq: 27 Apr 2018 8:17

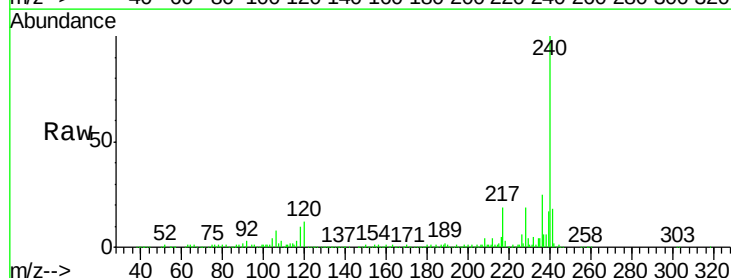
Tgt Ion:240 Resp: 204771

Ion Ratio Lower Upper

240 100

120 11.5 9.5 14.3

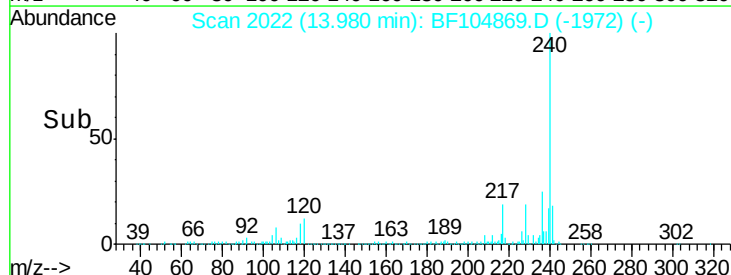
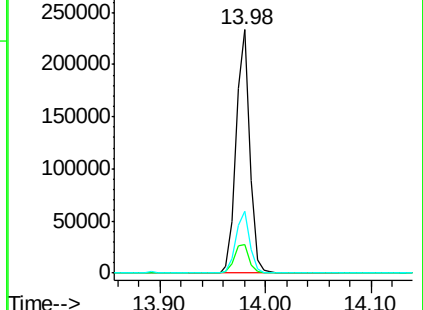
236 25.4 20.7 31.1

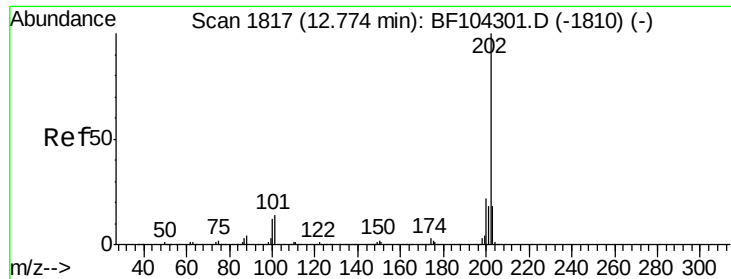


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 37.656 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

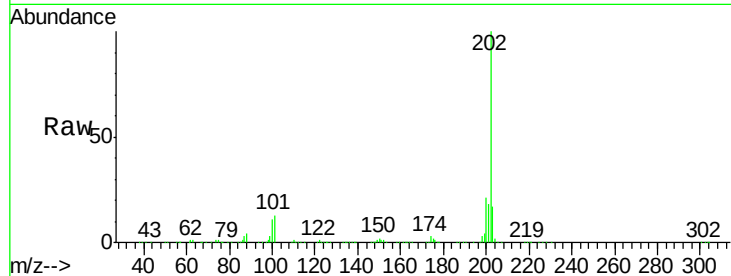
Tot Ion:202 Resp: 571557

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

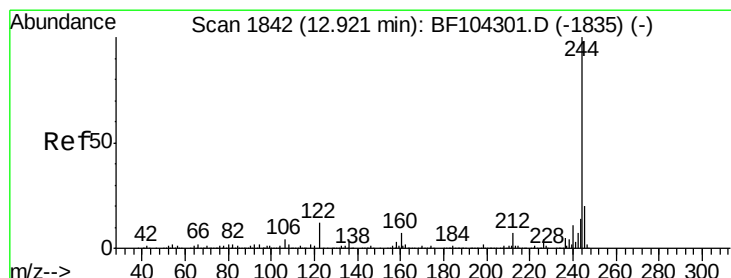
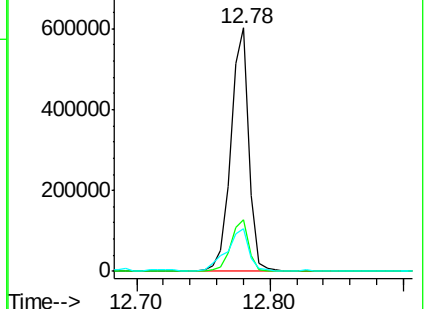
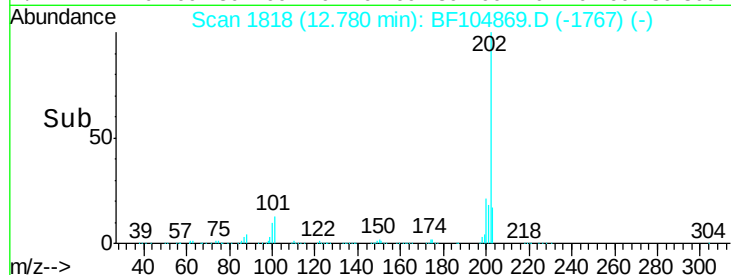
203 17.4 14.3 21.5



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: 6.011 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

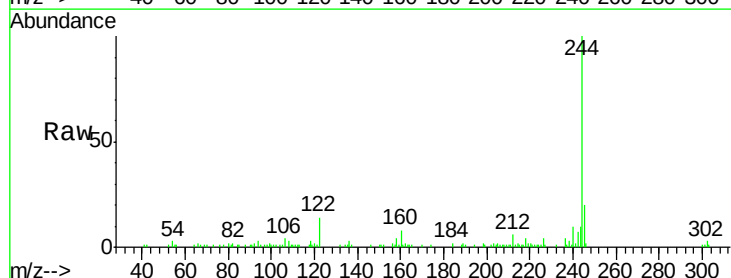
Tgt Ion:244 Resp: 53994

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

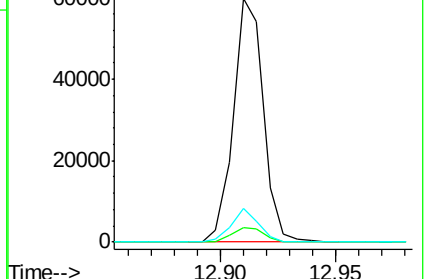
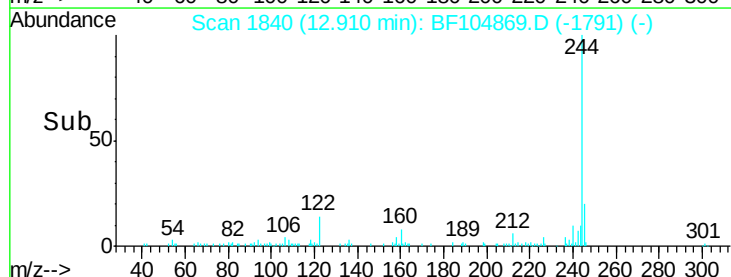
122 14.0 11.0 16.4

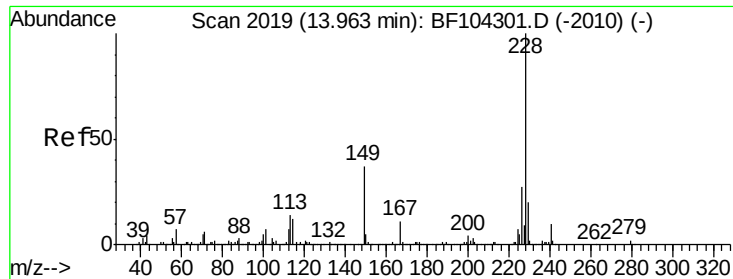


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 25.222 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF104869.D

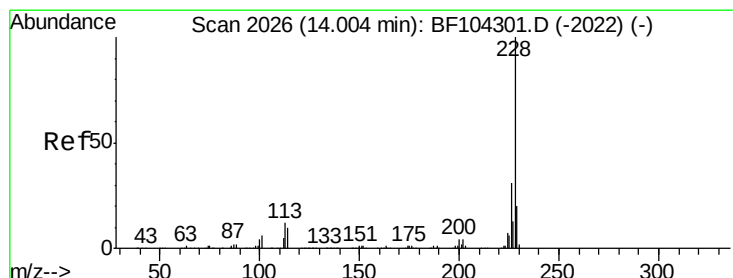
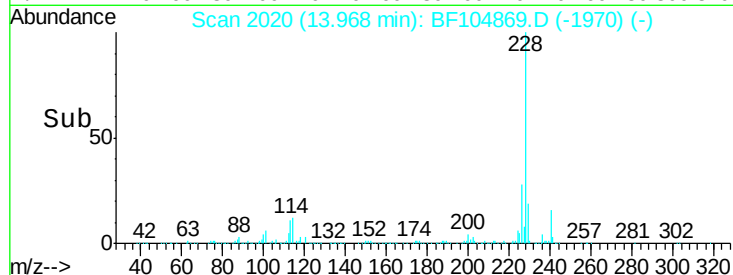
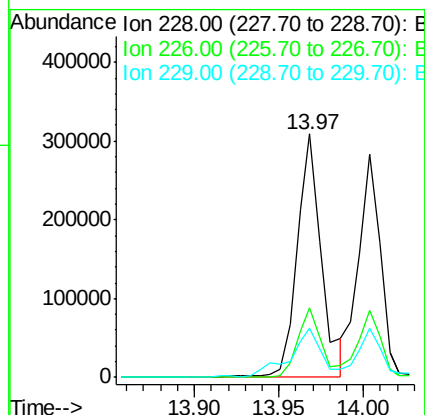
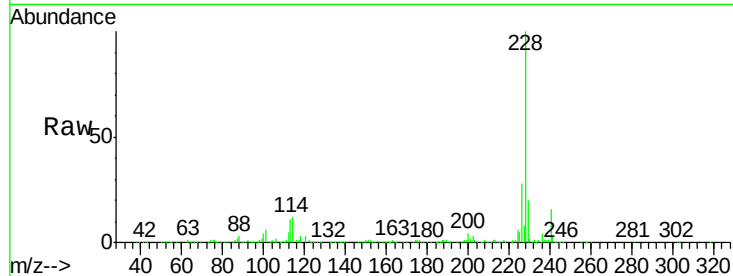
Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	228	Resp:	308551
Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.0	15.8	23.6



#82

Chrysene

Concen: 20.280 ng

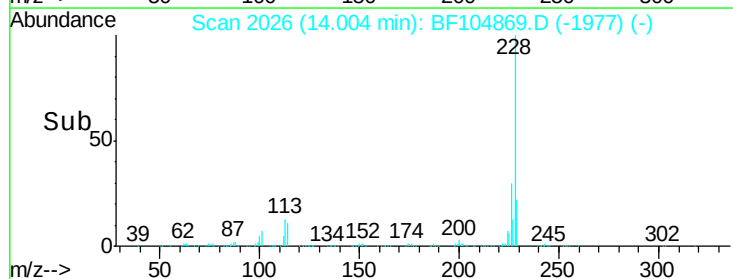
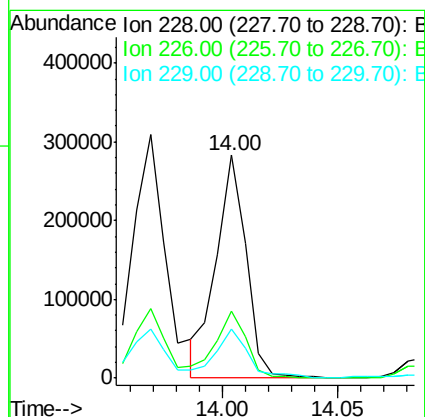
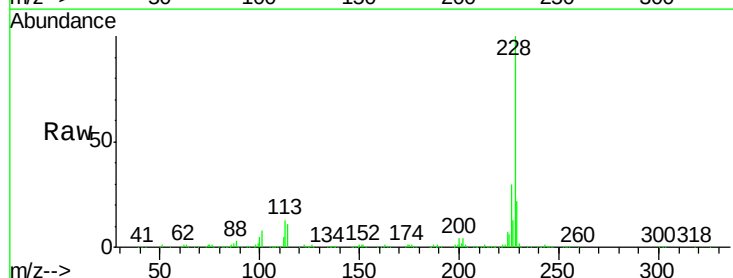
RT: 14.00 min Scan# 2026

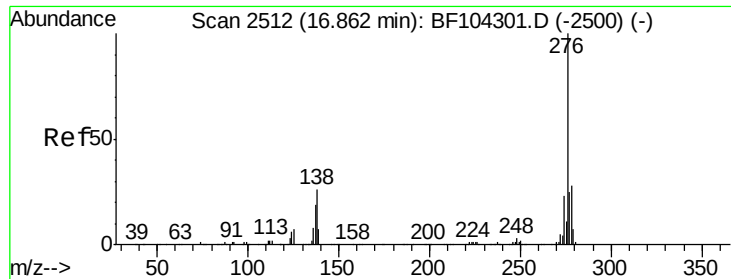
Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:	228	Resp:	254829
Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.6
229	22.3	16.2	24.4

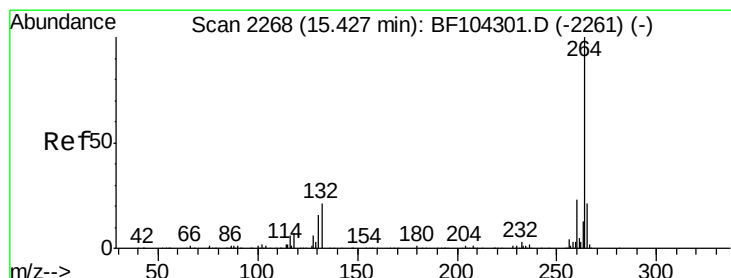
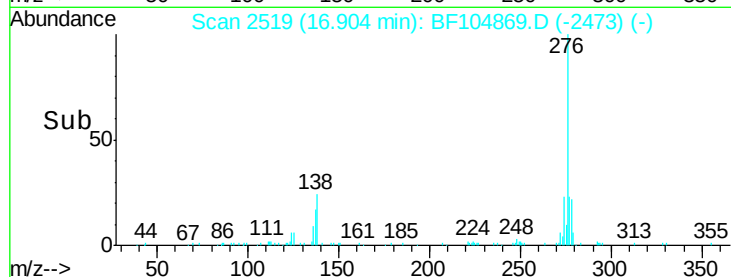
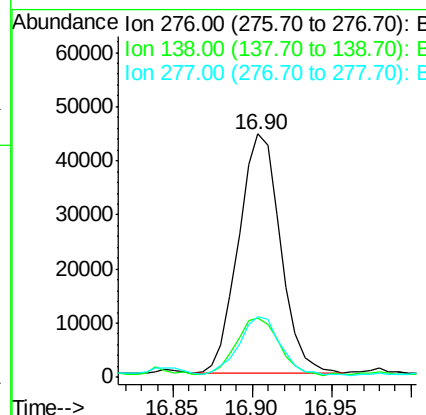
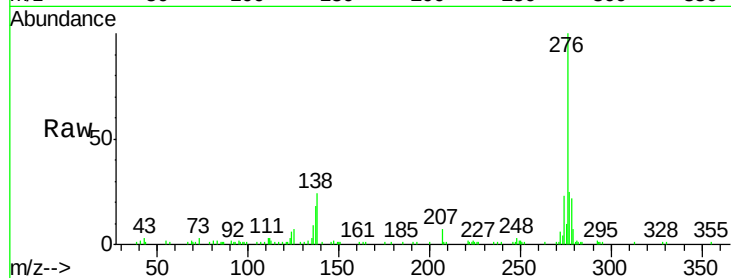




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.578 ng
 RT: 16.90 min Scan# 2519
 Delta R.T. -0.03 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

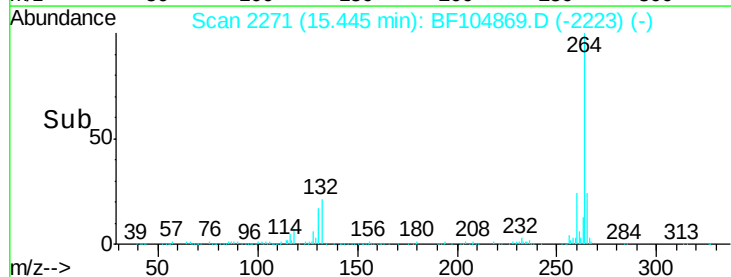
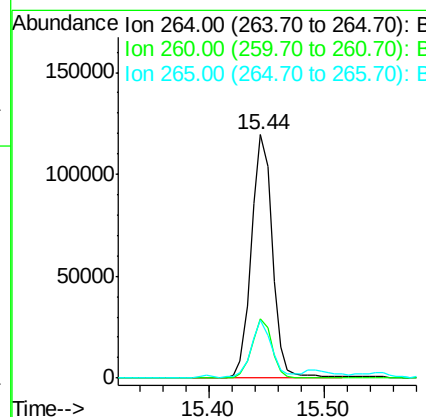
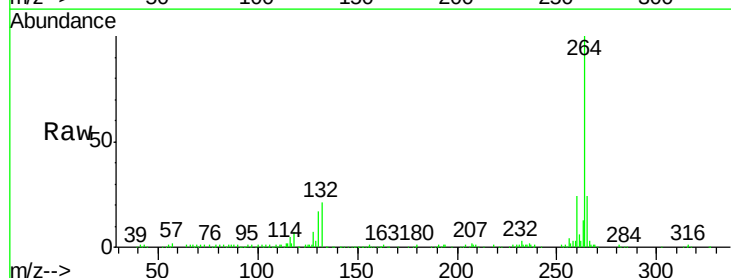
Instrument :
 BNA_F
 ClientSampleId :

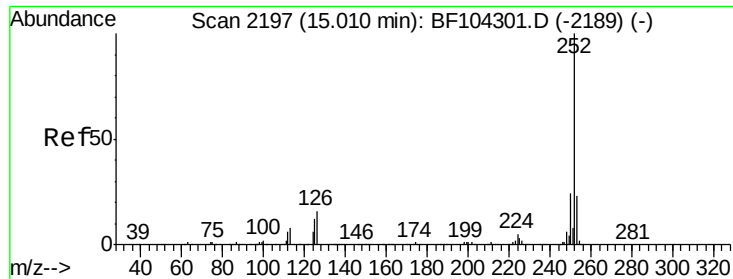
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.6	25.0	37.6#
277	24.8	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2271
 Delta R.T. -0.02 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

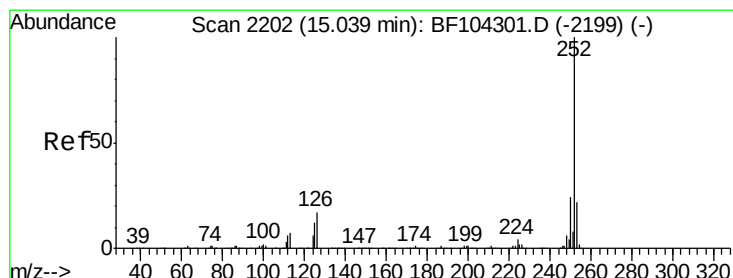
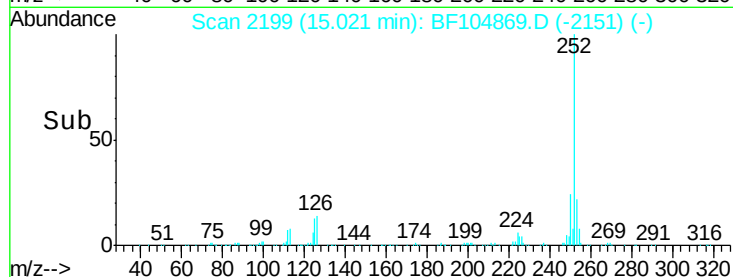
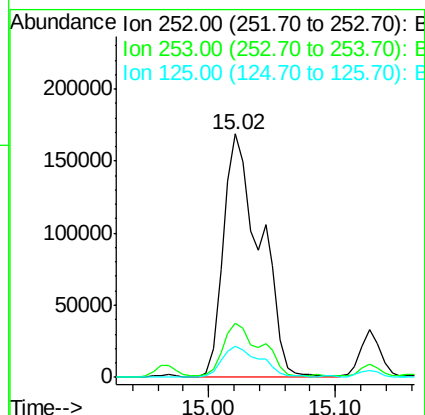
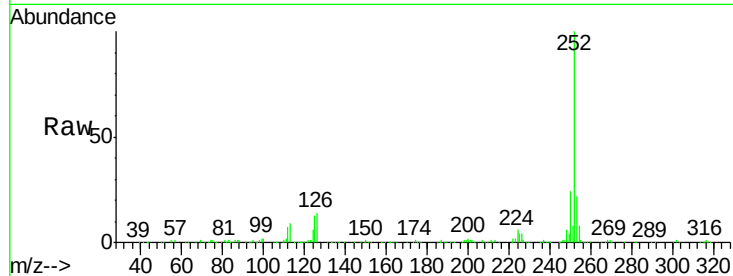




#87
Benzo(b)fluoranthene
Concen: 35.529 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

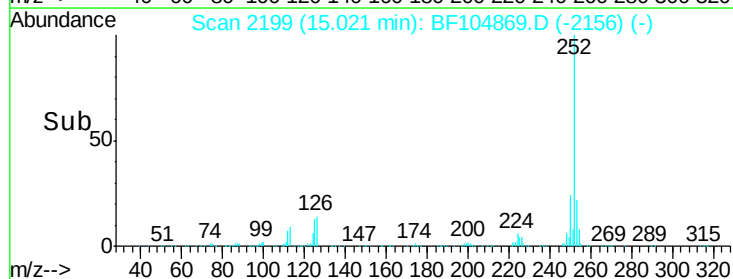
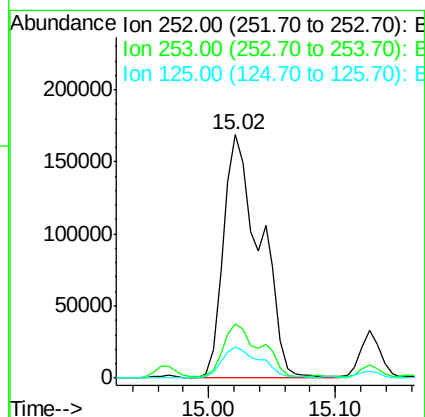
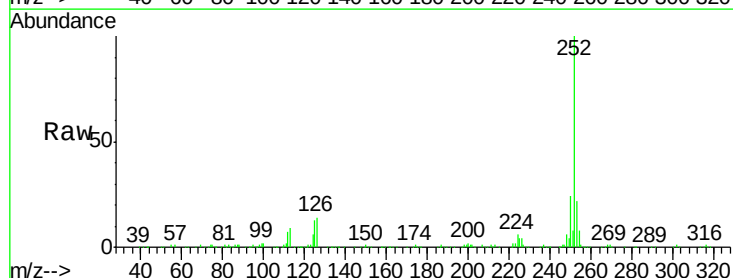
Instrument :
BNA_F
ClientSampleId :

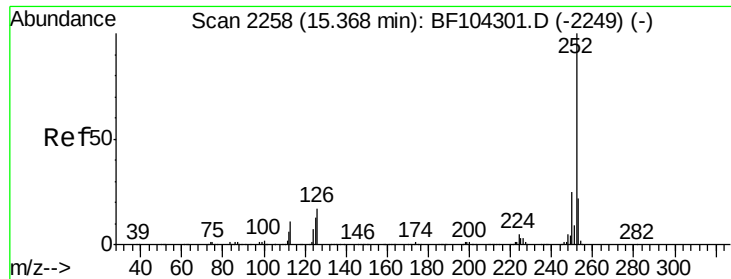
Tot Ion:252 Resp: 342381
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 12.8 9.0 13.6



#88
Benzo(k)fluoranthene
Concen: 37.633 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.05 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion:252 Resp: 342381
Ion Ratio Lower Upper
252 100
253 22.4 17.9 26.9
125 12.8 10.2 15.2





#89

Benzo(a)pyrene

Concen: 18.580 ng

RT: 15.39 min Scan# 2261

Delta R.T. -0.02 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

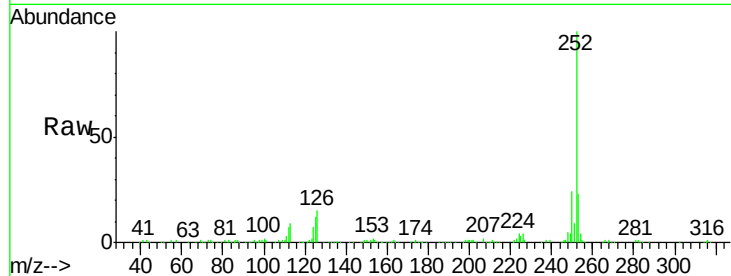
Tot Ion:252 Resp: 160200

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

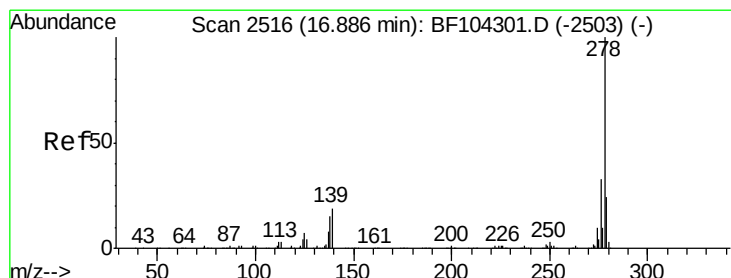
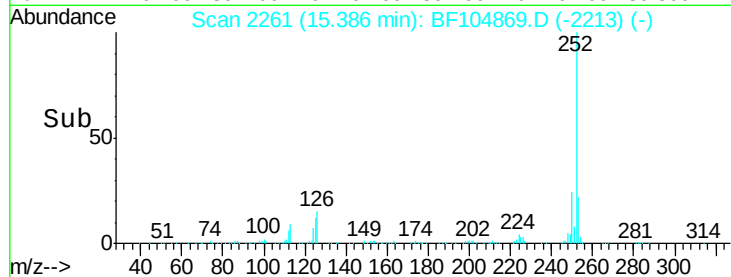
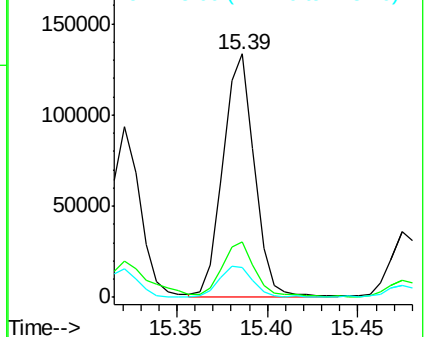
125 12.1 9.8 14.6



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: 2.651 ng

RT: 17.08 min Scan# 2549

Delta R.T. 0.13 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

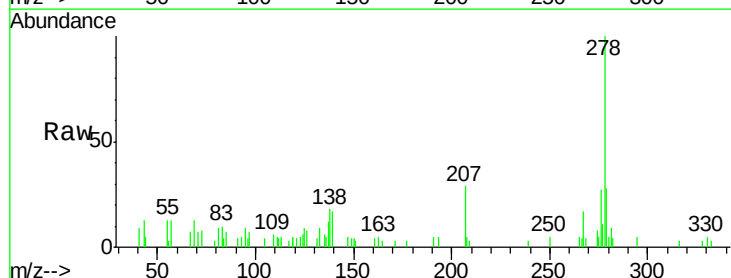
Tgt Ion:278 Resp: 18771

Ion Ratio Lower Upper

278 100

139 17.0 15.9 23.9

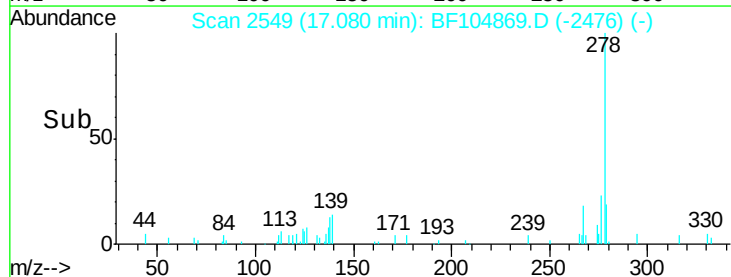
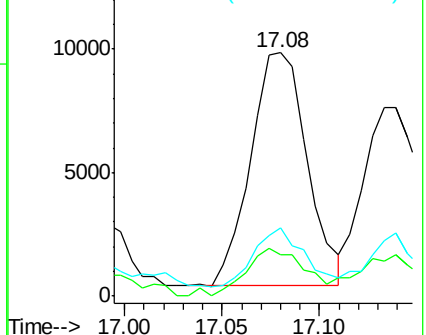
279 28.0 19.0 28.4

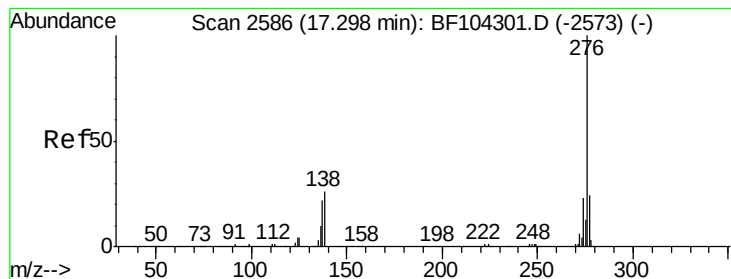


Abundance Ion 278.00 (277.70 to 278.70): E

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: 11.225 ng

RT: 17.35 min Scan# 2595

Delta R.T. -0.03 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	22.6	21.8	32.8

