

Data Path : U:\HPCHEM1\BNA F\DATA\BF011218\
 Data File : BF102054.D
 Acq On : 12 Jan 2018 20:23
 Operator : SJ/JU
 Sample : J1094-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 12 21:57:12 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	223740	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	844905	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	324927	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	440284	20.00	ng	0.00
75) Chrysene-d12	13.89	240	360787	20.00	ng	0.00
86) Perylene-d12	15.31	264	295648	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	1422175	89.76	ng	0.02
7) Phenol-d6	6.37	99	1663480	87.99	ng	0.00
23) Nitrobenzene-d5	7.30	82	1007624	70.08	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	218402	77.02	ng	0.00
44) 2-Fluorobiphenyl	9.09	172	1359125	65.35	ng	0.00
78) Terphenyl-d14	12.83	244	787057	45.29	ng	0.00

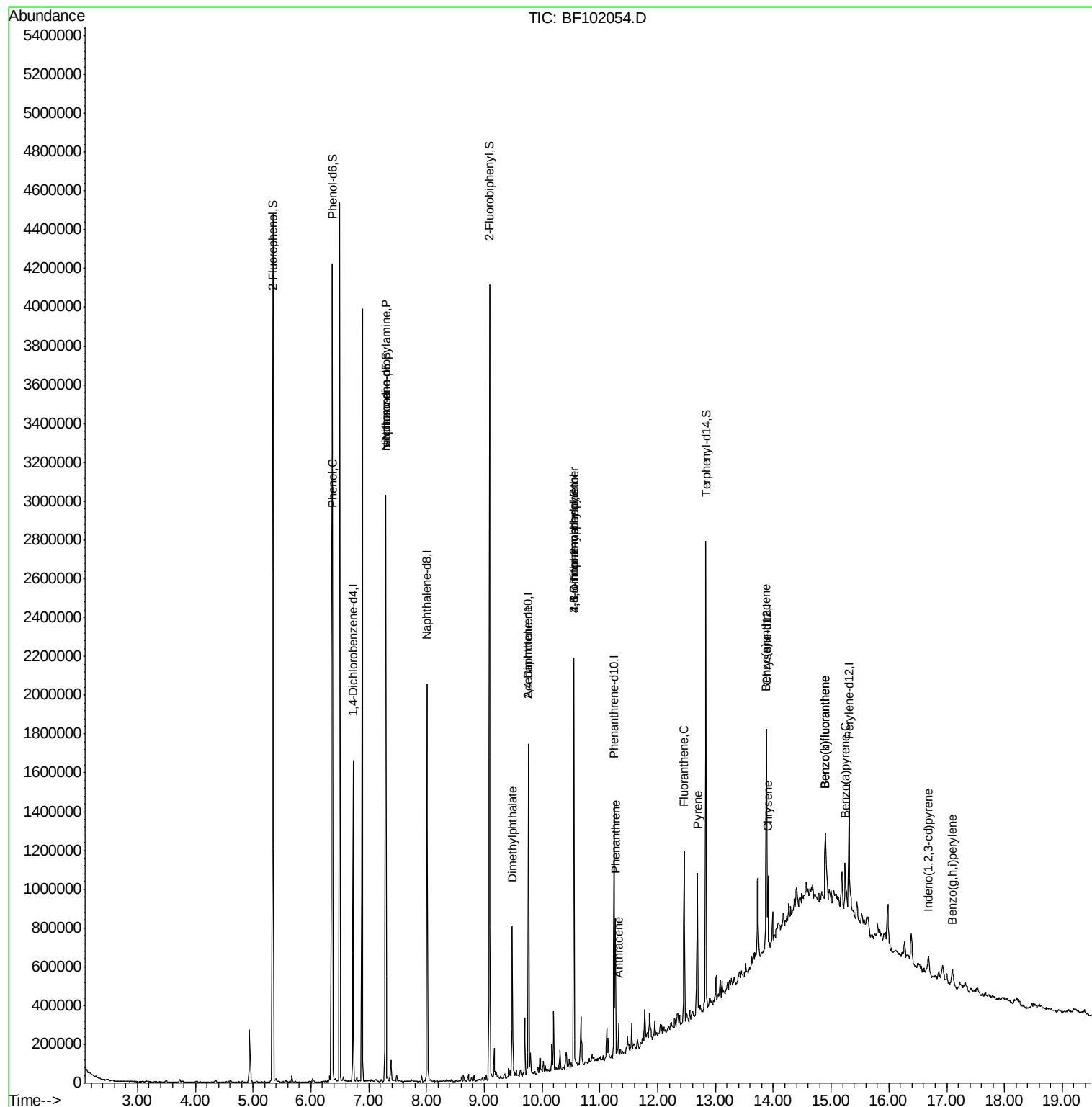
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.38	94	64669	3.027	ng	97
19) n-Nitroso-di-n-propylamine	7.30	70	136772	11.040	ng	# 82
25) Isophorone	7.30	82	1007615	35.468	ng	# 64
49) Dimethylphthalate	9.48	163	294784	11.309	ng	100
56) 2,4-Dinitrotoluene	9.76	165	43521	6.669	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.55	198	338	5.787	ng	# 1
66) 4-Bromophenyl-phenylether	10.55	248	14290	3.073	ng	# 1
70) Phenanthrene	11.27	178	230726	8.971	ng	99
71) Anthracene	11.32	178	56673	2.173	ng	98
74) Fluoranthene	12.46	202	325141	12.850	ng	99
77) Pyrene	12.69	202	281847	8.838	ng	100
80) Benzo(a)anthracene	13.87	228	146429	6.361	ng	96
82) Chrysene	13.91	228	146056	6.085	ng	97
85) Indeno(1,2,3-cd)pyrene	16.69	276	53222	3.046	ng	96
87) Benzo(b)fluoranthene	14.90	252	217611	11.288	ng	# 88
88) Benzo(k)fluoranthene	14.90	252	217611	11.702	ng	# 91
89) Benzo(a)pyrene	15.24	252	106032	6.112	ng	# 87
91) Benzo(a,h,i)perylene	17.10	276	51995	3.729	ng	# 89

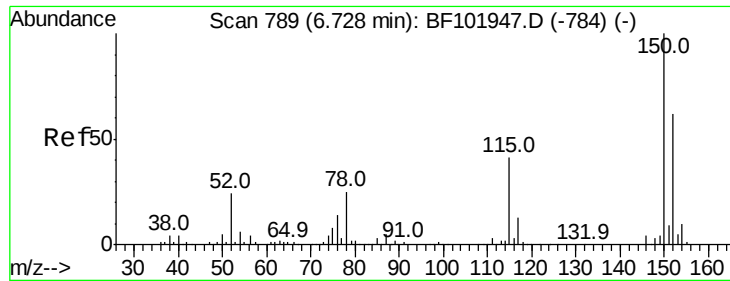
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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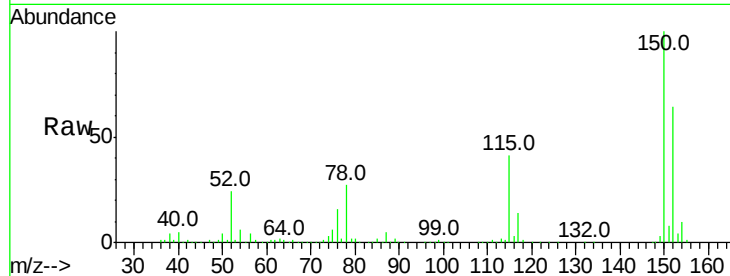


#1

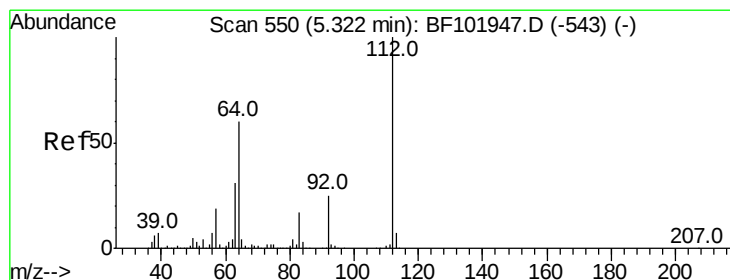
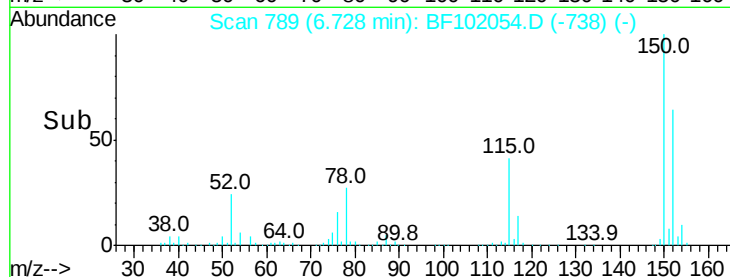
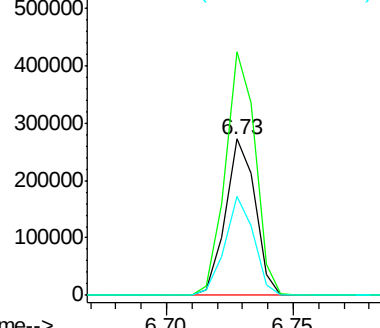
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 223740
Ion Ratio Lower Upper
152 100
150 156.0 124.6 186.8
115 63.3 50.1 75.1



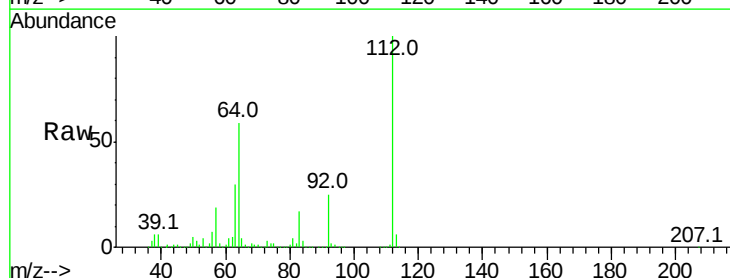
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



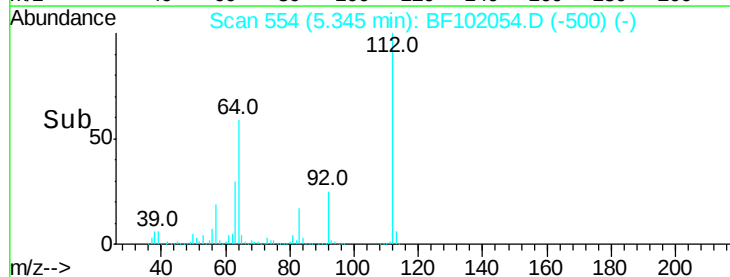
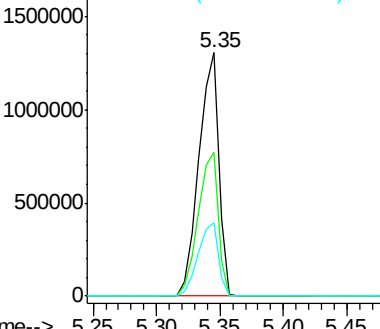
#5

2-Fluorophenol
Concen: 89.757 ng
RT: 5.35 min Scan# 554
Delta R.T. 0.02 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

Tgt Ion:112 Resp: 1422175
Ion Ratio Lower Upper
112 100
64 59.1 47.9 71.9
63 30.1 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: 87.995 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

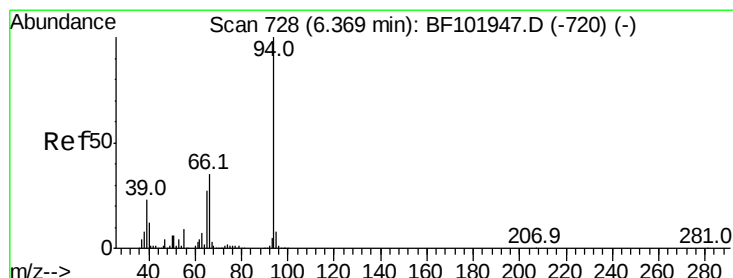
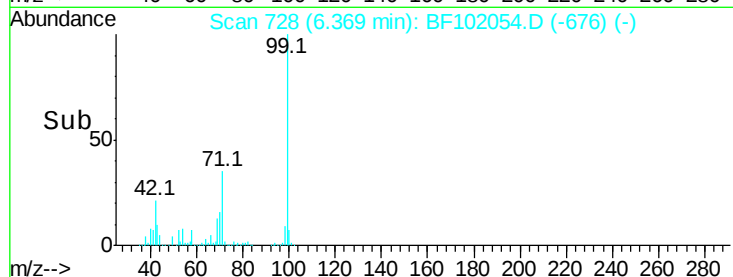
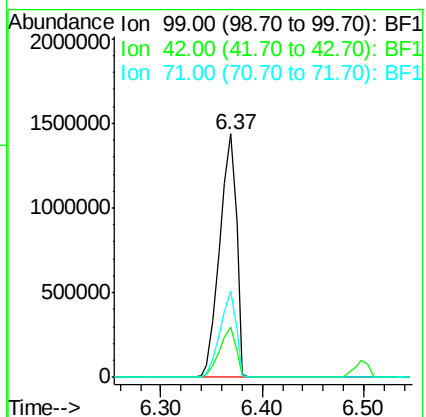
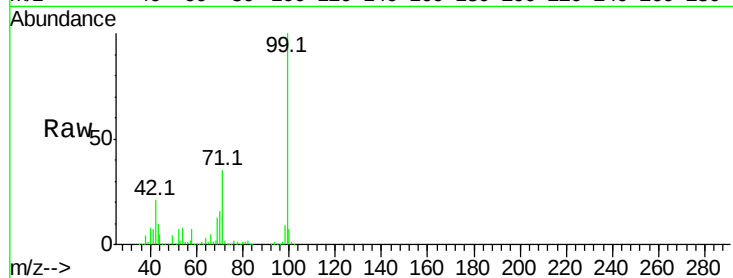
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1663480

Ion	Ratio	Lower	Upper
99	100		
42	20.6	14.5	21.7
71	35.2	25.4	38.0



#10

Phenol

Concen: 3.027 ng

RT: 6.38 min Scan# 730

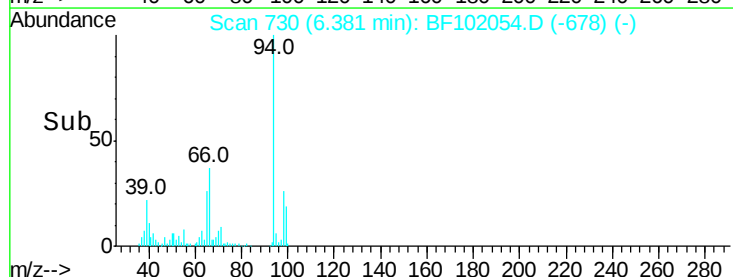
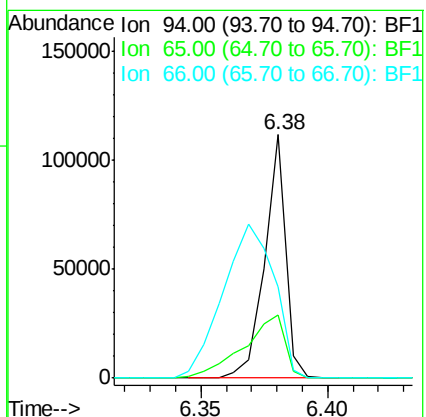
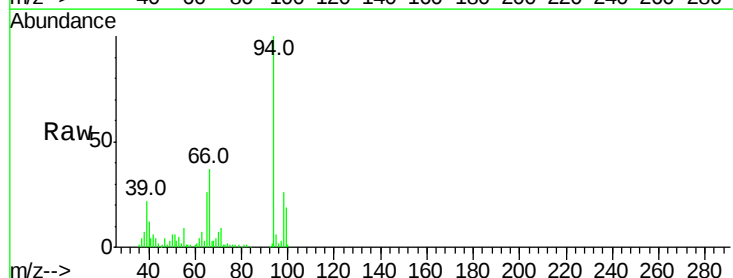
Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Tgt Ion: 94 Resp: 64669

Ion	Ratio	Lower	Upper
94	100		
65	25.9	7.9	47.9
66	37.4	16.2	56.2





#19

n-Nitroso-di-n-propylamine

Concen: 11.040 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.15 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

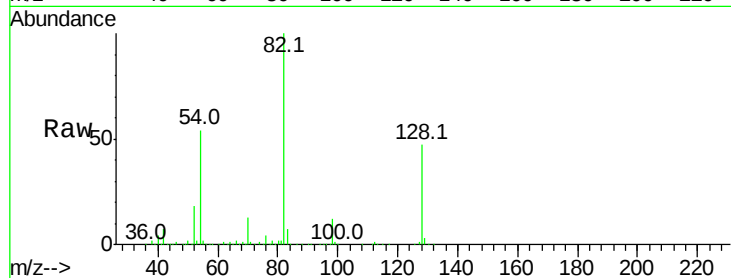
BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 136772

Ion Ratio Lower Upper

70	100		
42	51.9	47.5	71.3
101	0.0	7.4	11.2
130	2.4	16.6	25.0

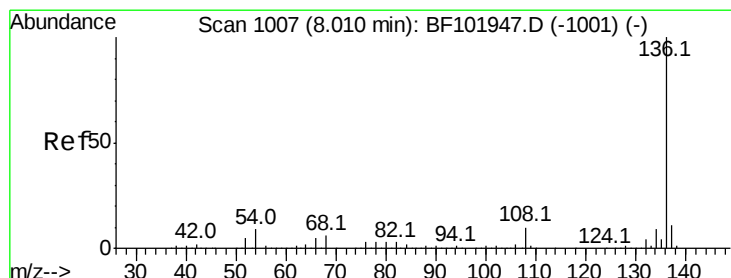
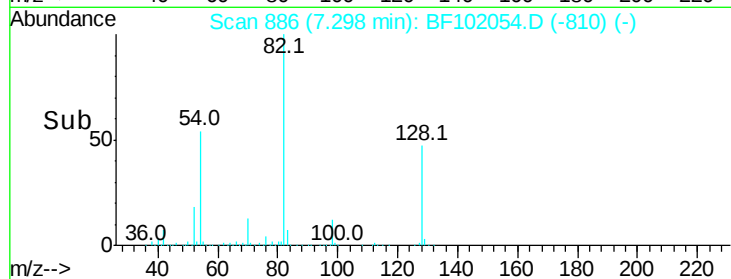
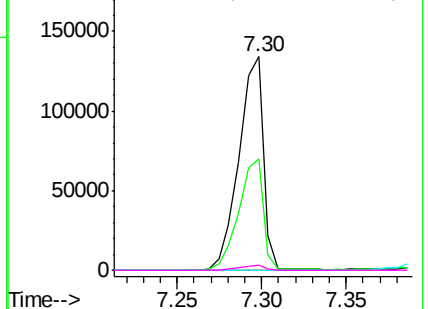


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Tgt Ion: 136 Resp: 844905

Ion Ratio Lower Upper

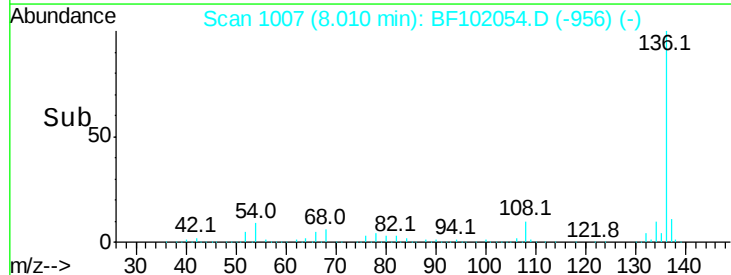
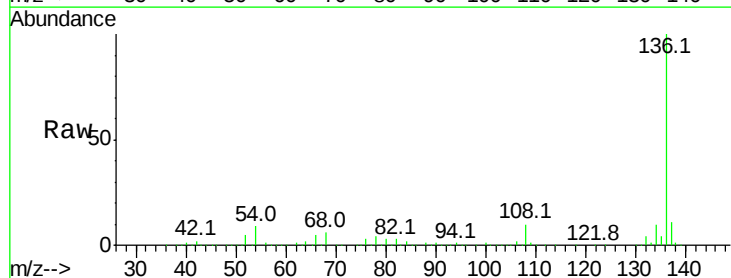
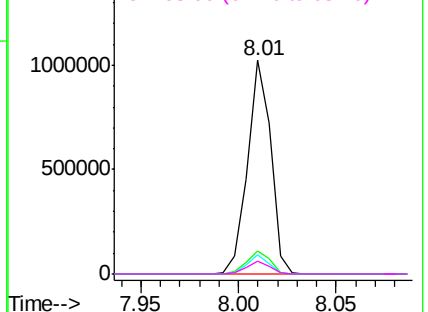
136	100		
137	10.9	8.9	13.3
54	8.9	6.6	9.8
68	6.1	5.0	7.4

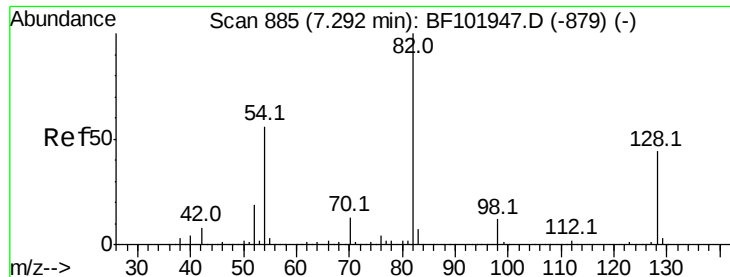
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

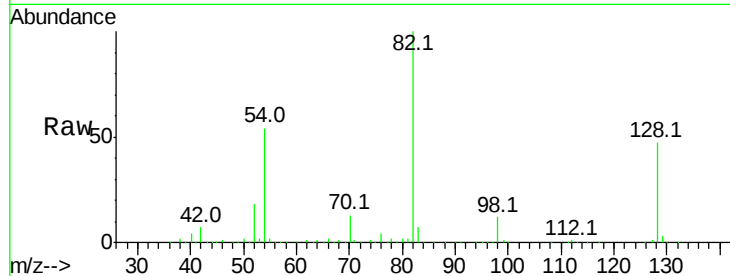




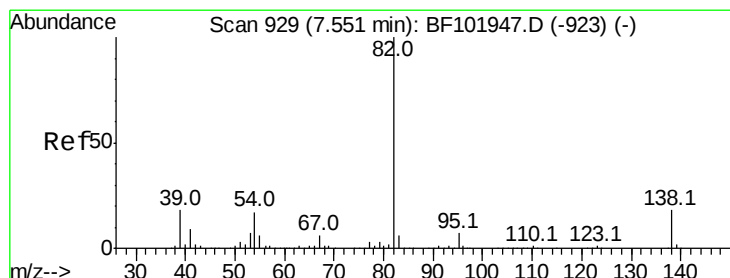
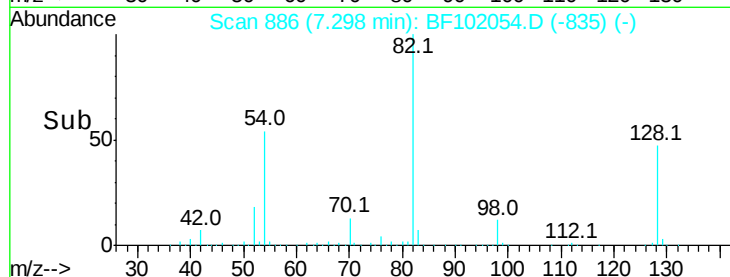
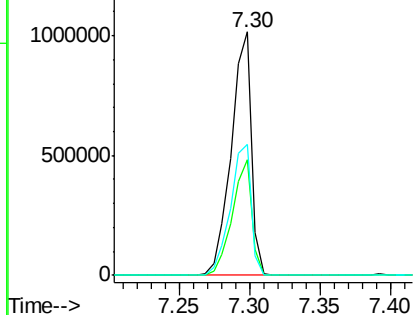
#23
Nitrobenzene-d5
Concen: 70.081 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.00 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 1007624
Ion Ratio Lower Upper
82 100
128 47.2 36.1 54.1
54 54.0 41.4 62.2

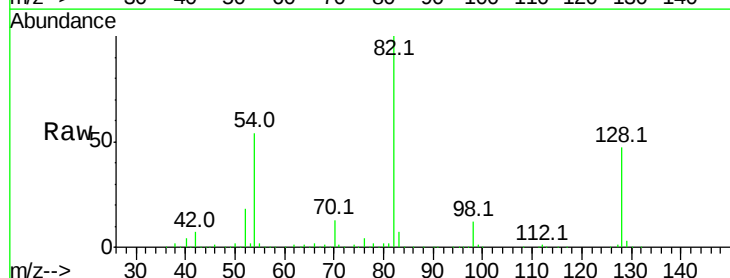


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

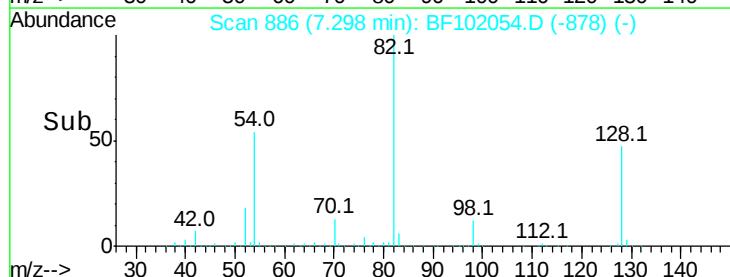
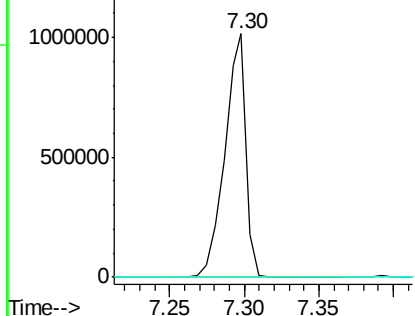


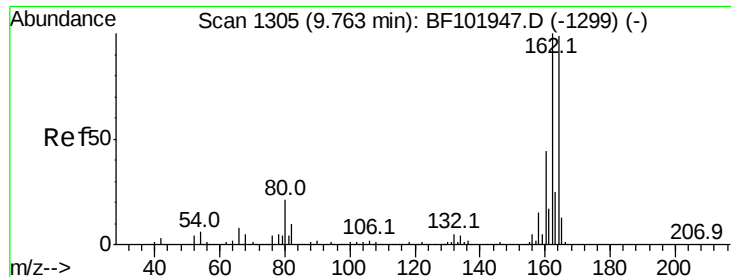
#25
Isophorone
Concen: 35.468 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.25 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

Tgt Ion: 82 Resp: 1007615
Ion Ratio Lower Upper
82 100
95 0.1 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

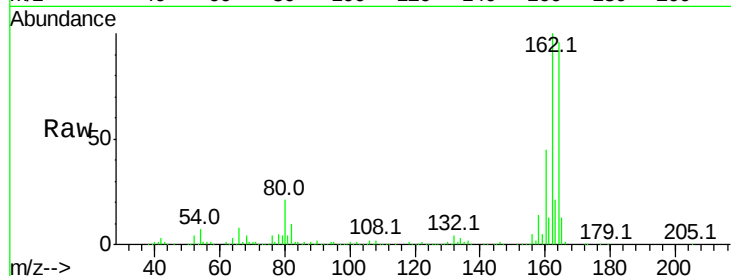




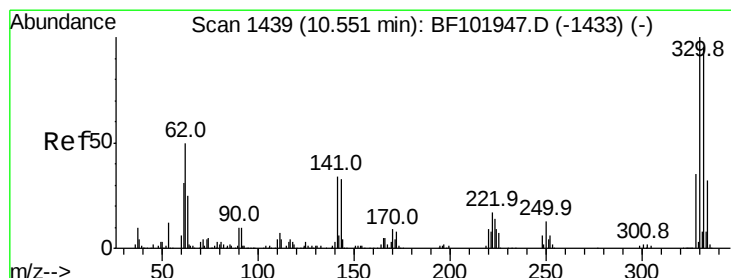
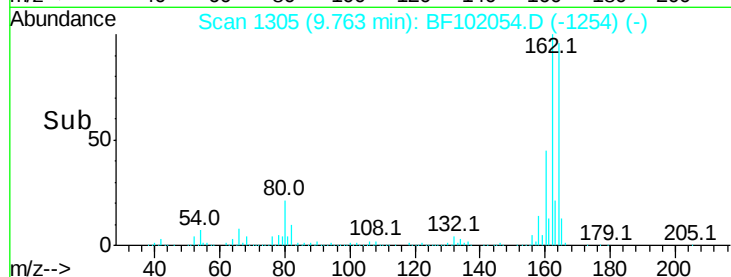
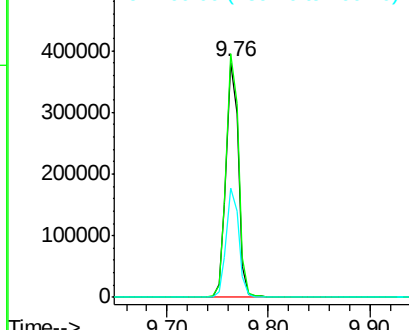
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 324927
 Ion Ratio Lower Upper
 164 100
 162 103.6 86.1 129.1
 160 46.7 38.3 57.5

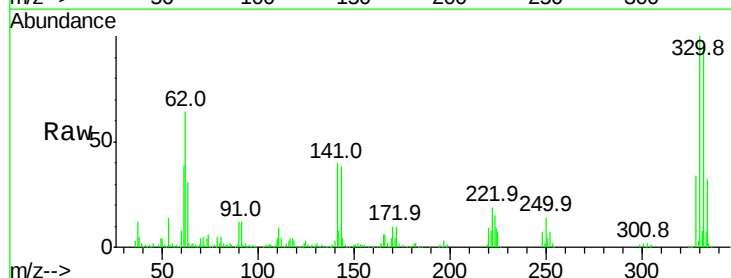


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

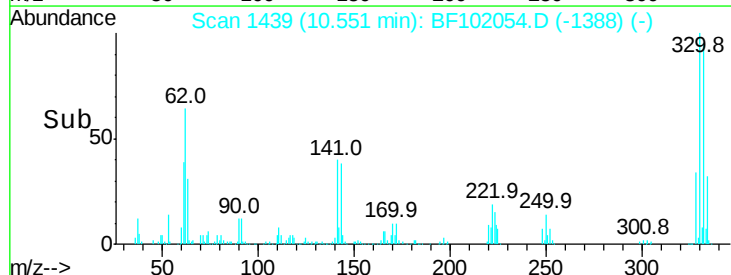
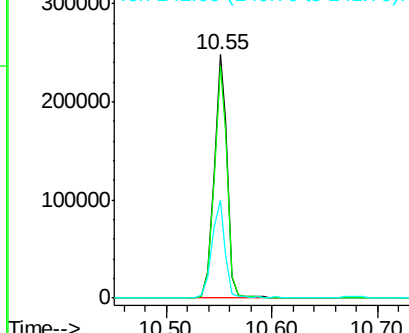


#41
 2,4,6-Tribromophenol
 Concen: 77.022 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

Tgt Ion:330 Resp: 218402
 Ion Ratio Lower Upper
 330 100
 332 95.4 77.0 115.6
 141 39.4 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



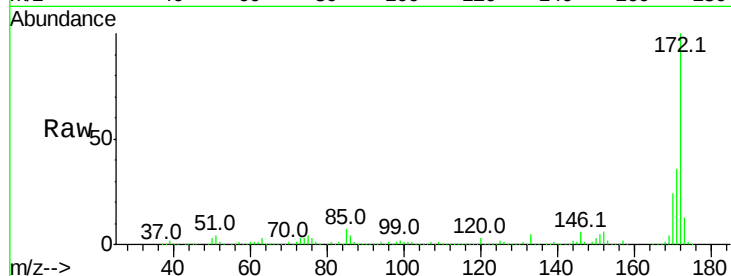


#44
 2-Fluorobiphenyl
 Concen: 65.348 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

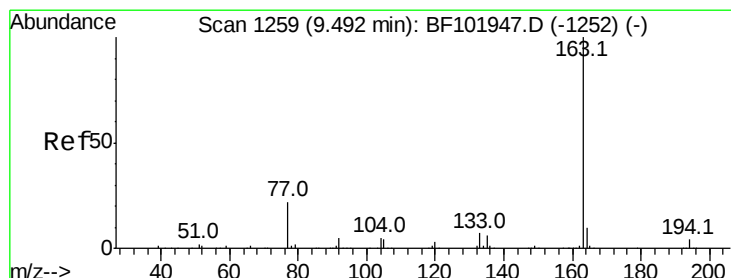
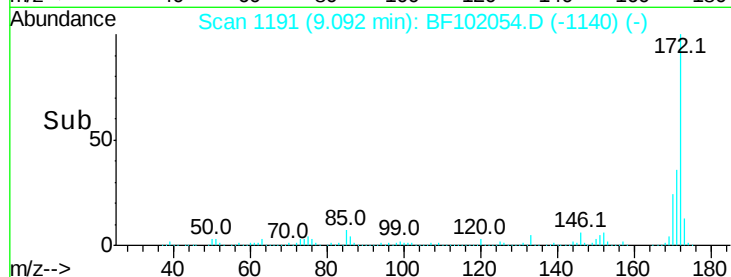
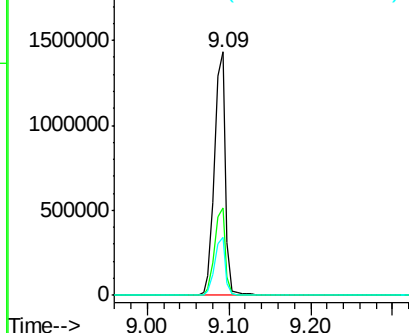
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1359125

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	23.7	19.6	29.4



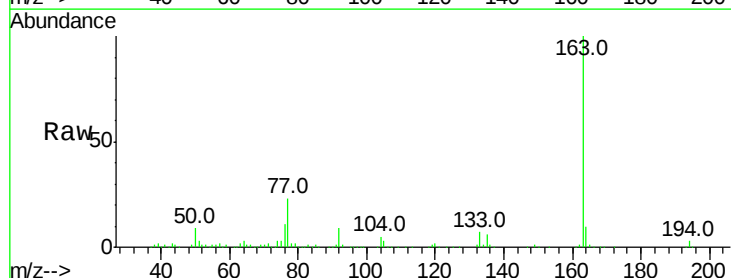
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



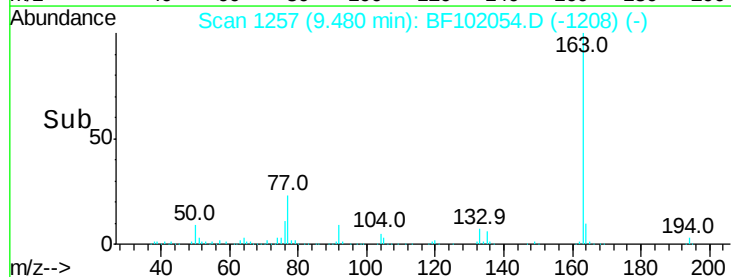
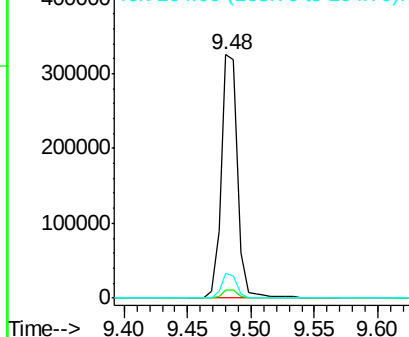
#49
 Dimethylphthalate
 Concen: 11.309 ng
 RT: 9.48 min Scan# 1257
 Delta R.T. -0.01 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

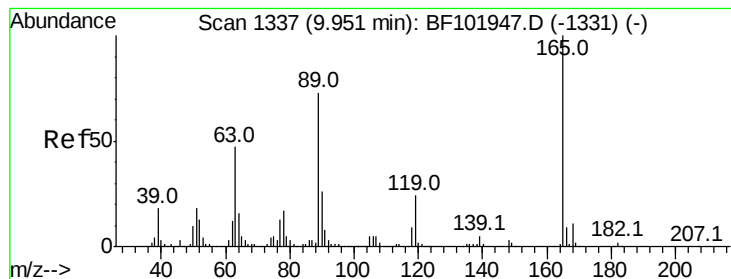
Tgt Ion:163 Resp: 294784

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





#56

2,4-Dinitrotoluene

Concen: 6.669 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.19 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 43521

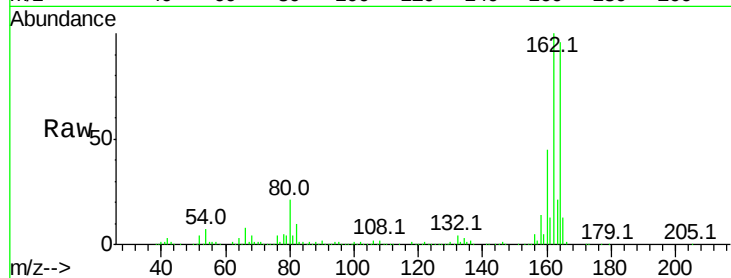
Ion Ratio Lower Upper

165 100

63 1.2 36.4 54.6#

89 1.5 57.8 86.6#

182 0.0 1.6 2.4#

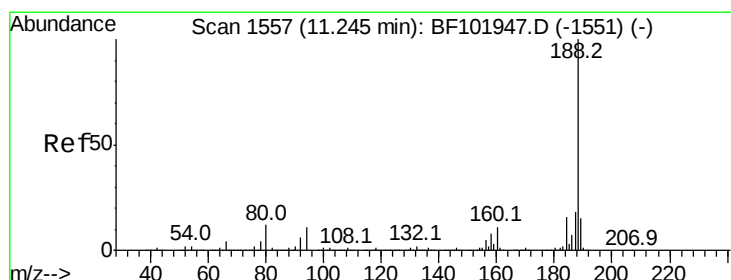
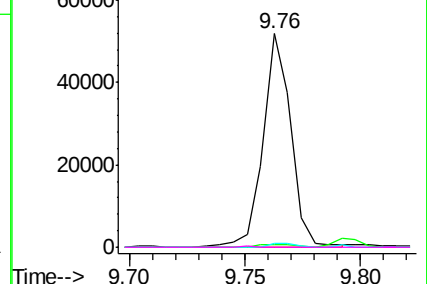
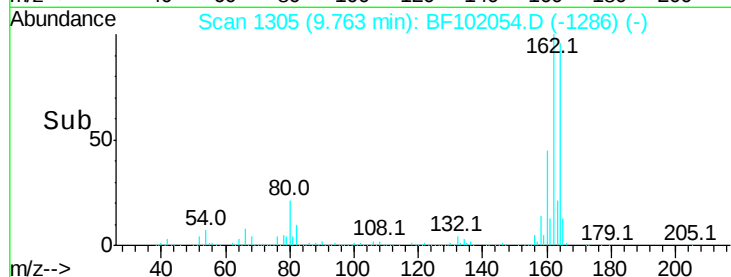


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1557

Delta R.T. -0.00 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

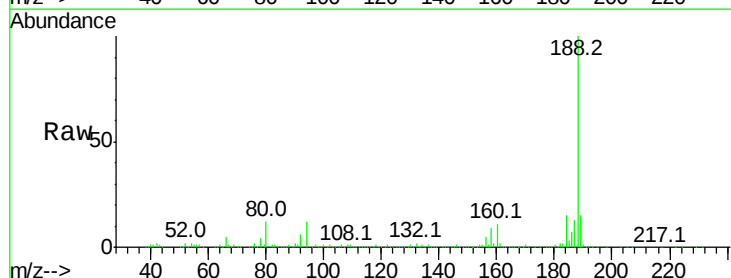
Tgt Ion:188 Resp: 440284

Ion Ratio Lower Upper

188 100

94 12.4 8.5 12.7

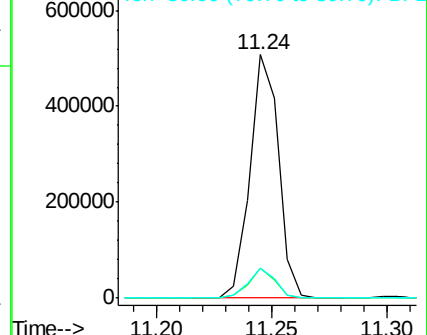
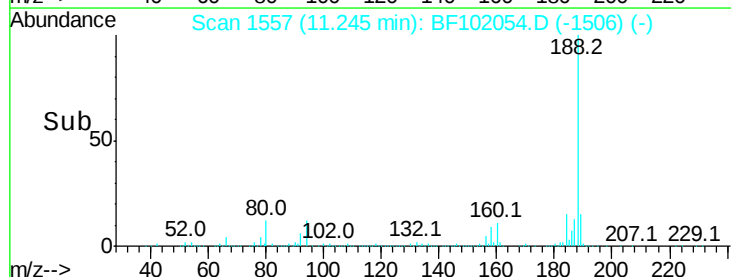
80 12.4 9.2 13.8

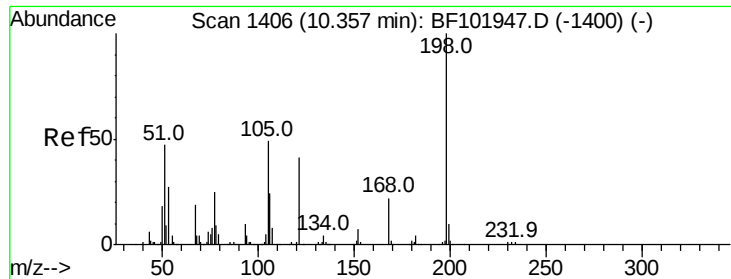


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 5.787 ng

RT: 10.55 min Scan# 1439

Delta R.T. 0.19 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

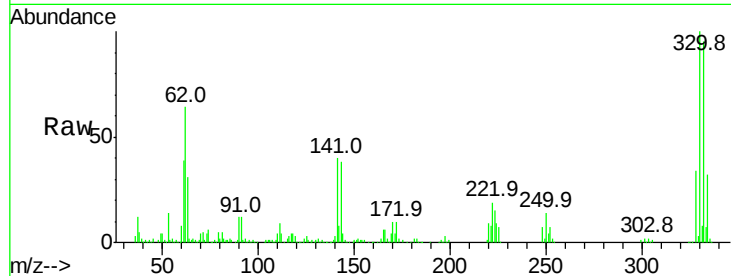
Tot Ion:198 Resp: 338

Ion Ratio Lower Upper

198 100

51 306.4 37.7 77.7#

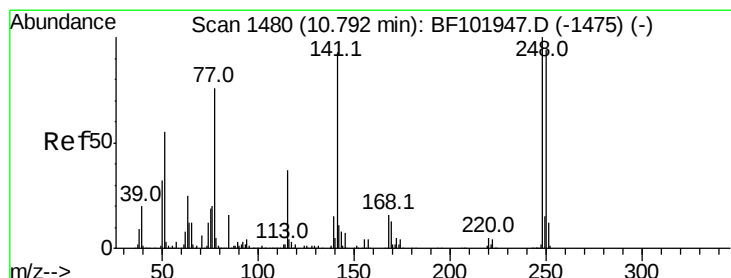
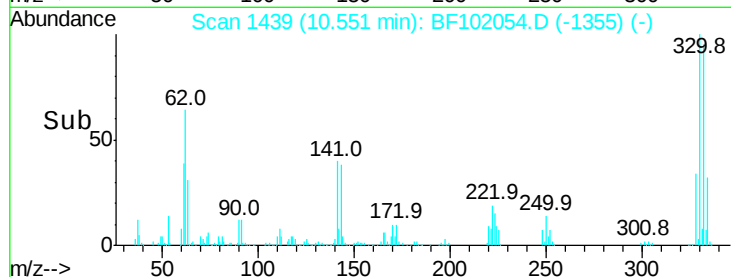
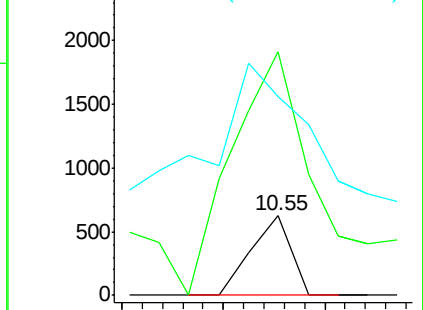
105 251.0 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.073 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.24 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

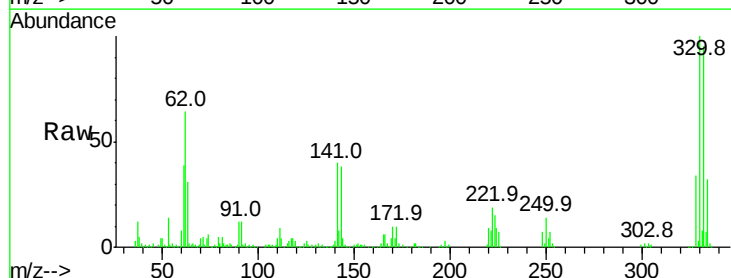
Tgt Ion:248 Resp: 14290

Ion Ratio Lower Upper

248 100

250 214.6 76.9 115.3#

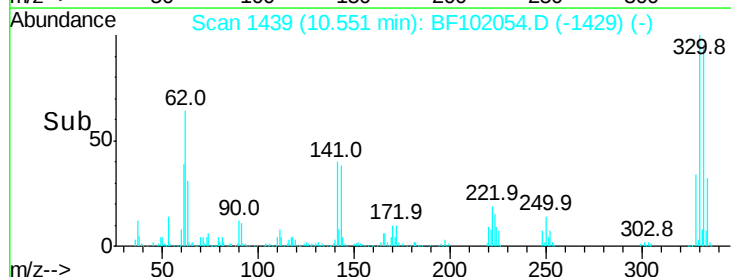
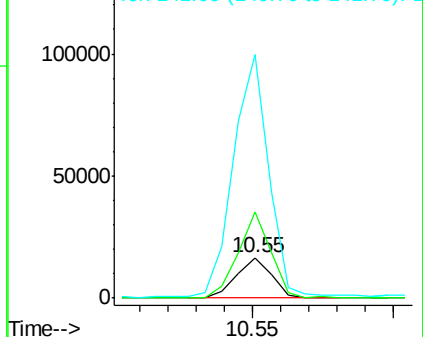
141 602.4 74.4 111.6#

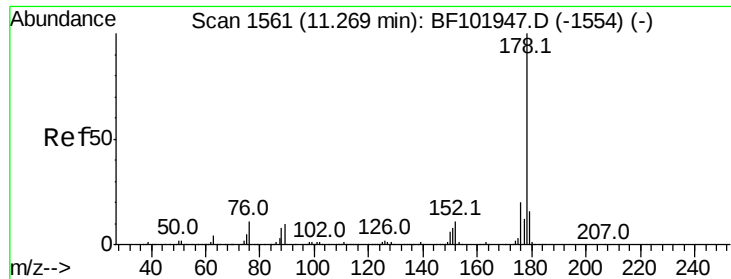


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 8.971 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.00 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

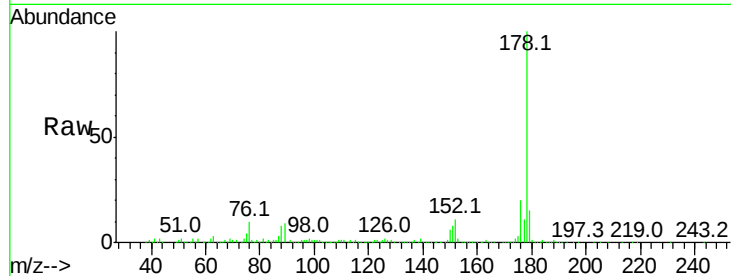
Tot Ion:178 Resp: 230726

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

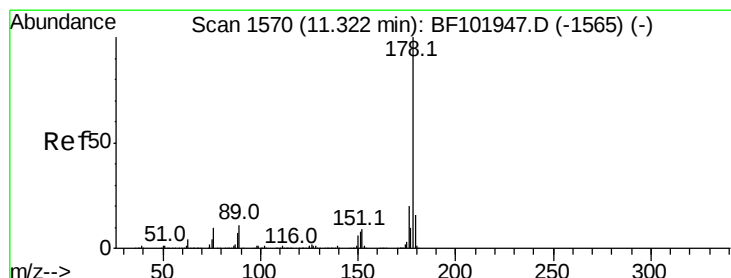
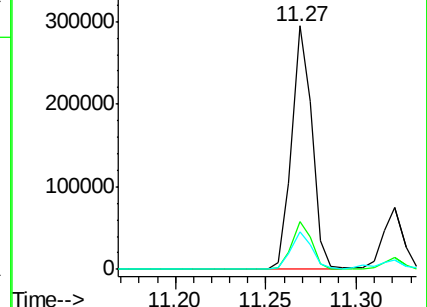
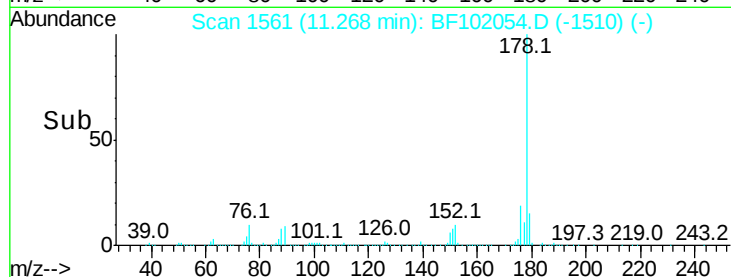
179 15.4 13.0 19.6



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: 2.173 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

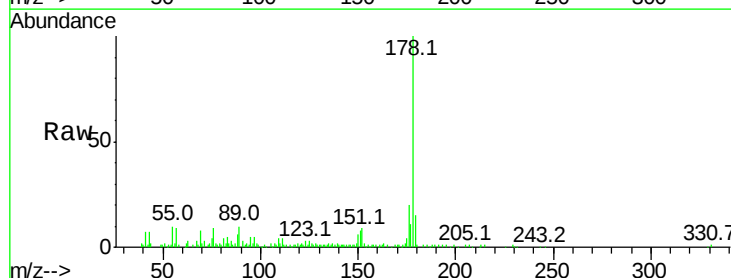
Tgt Ion:178 Resp: 56673

Ion Ratio Lower Upper

178 100

176 20.1 15.4 23.2

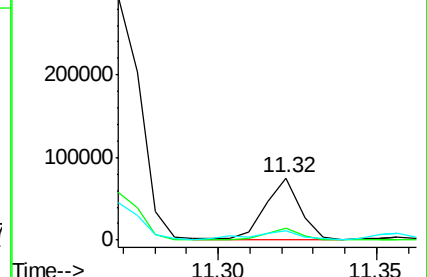
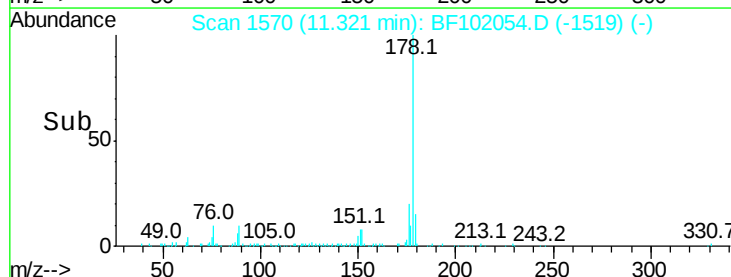
179 15.3 12.6 19.0

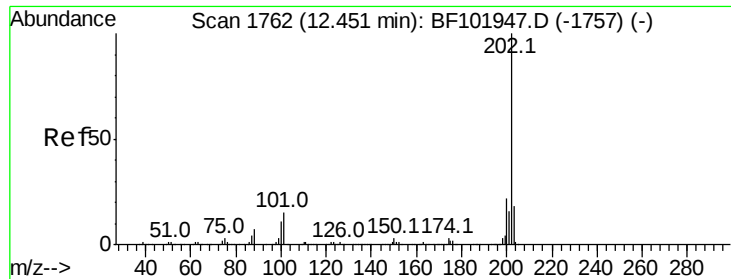


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

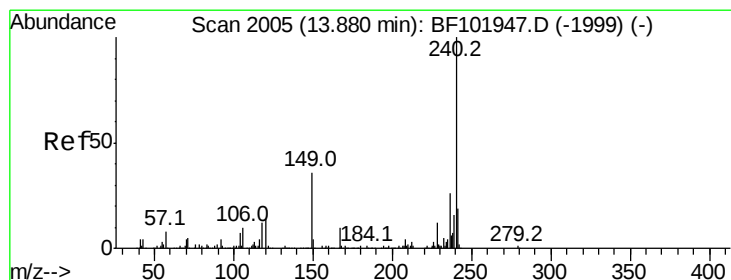
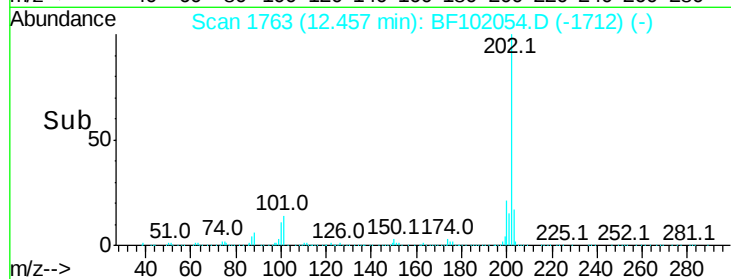
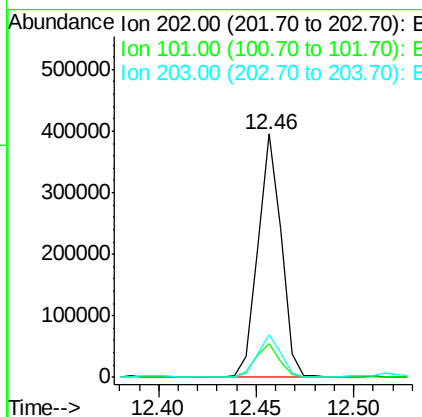
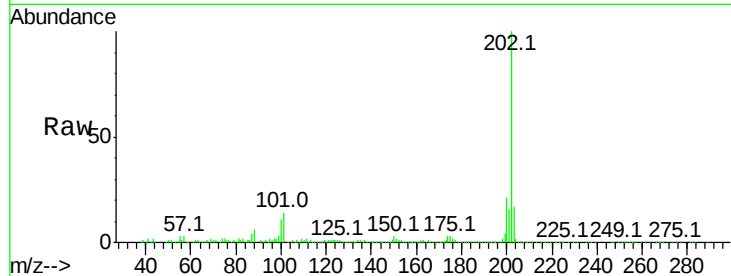




#74
Fluoranthene
 Concen: 12.850 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. -0.00 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

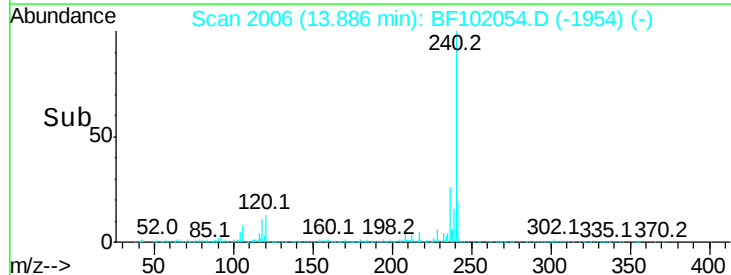
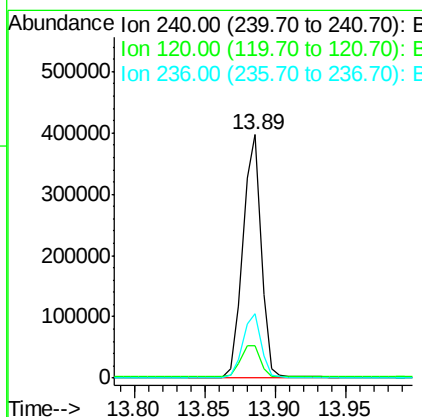
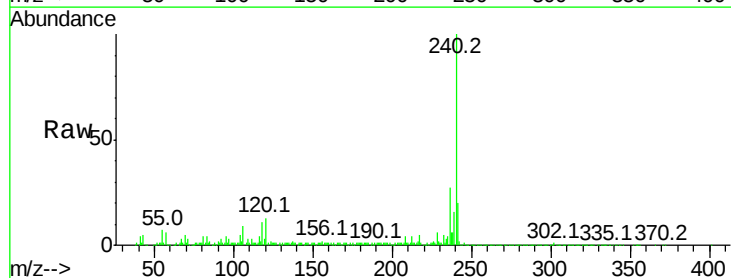
Instrument :
 BNA_F
 ClientSampled :

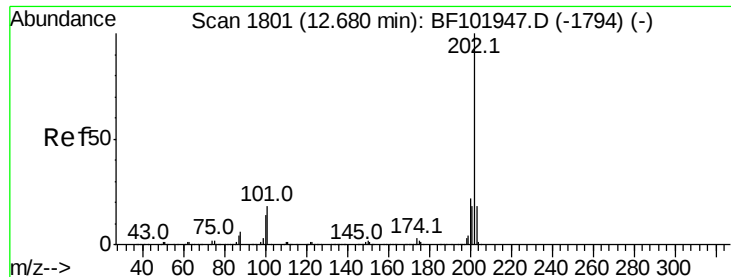
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	34.1
203	17.3	0.0	38.1



#75
Chrysene-d12
 Concen: 20.000 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.01 min
 Lab File: BF102054.D
 Acq: 12 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	9.5	14.3
236	26.5	20.7	31.1





#77

Pvrene

Concen: 8.838 ng

RT: 12.69 min Scan# 1802

Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

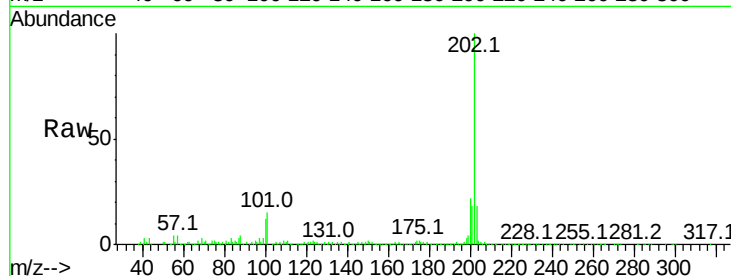
Tot Ion:202 Resp: 281847

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

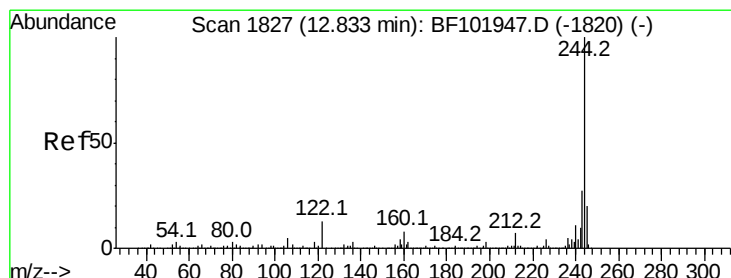
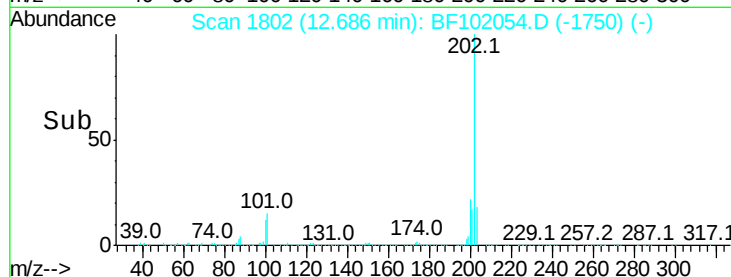
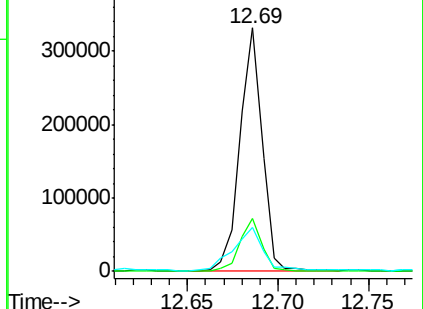
203 18.2 14.3 21.5



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: 45.294 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

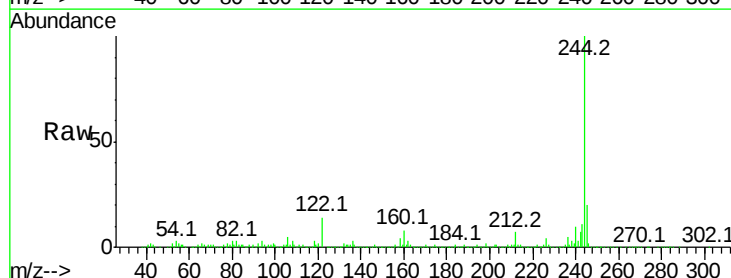
Tgt Ion:244 Resp: 787057

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

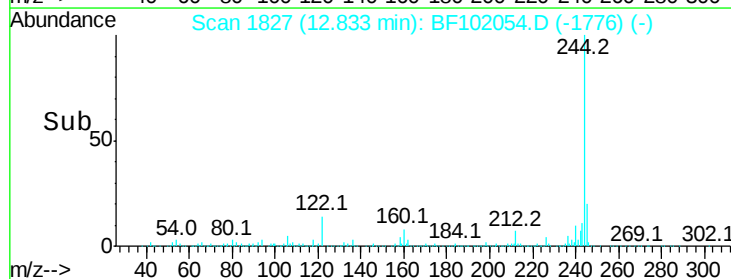
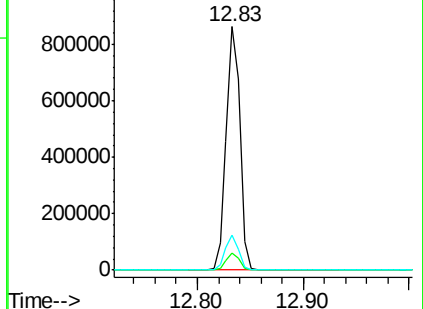
122 14.3 11.0 16.4

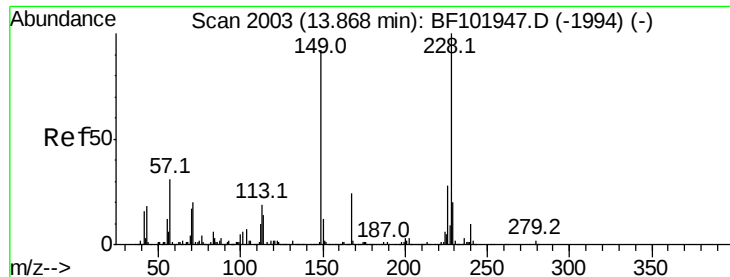


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

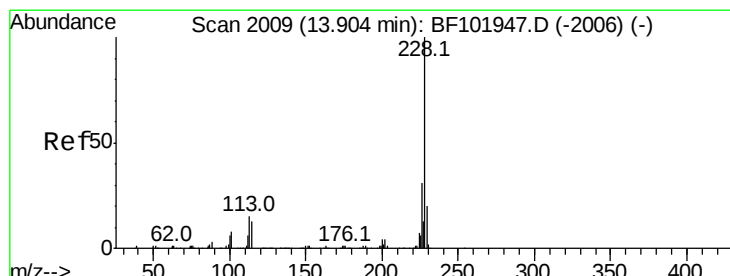
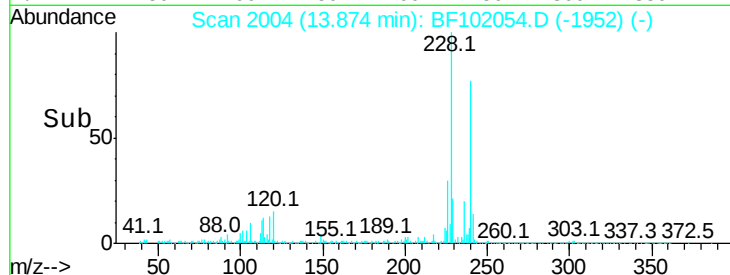
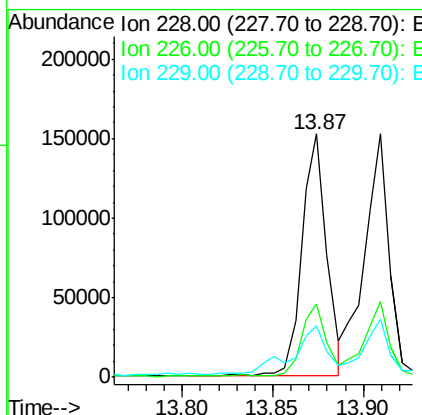
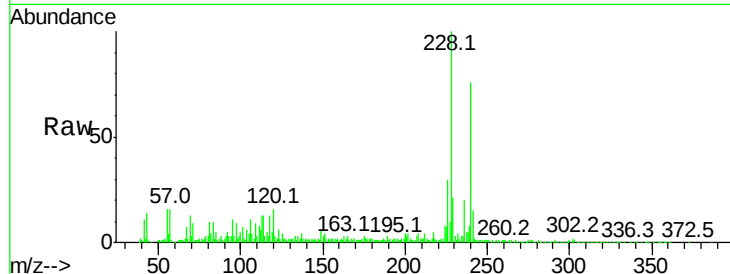




#80
Benzo(a)anthracene
Concen: 6.361 ng
RT: 13.87 min Scan# 2004
Delta R.T. 0.01 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

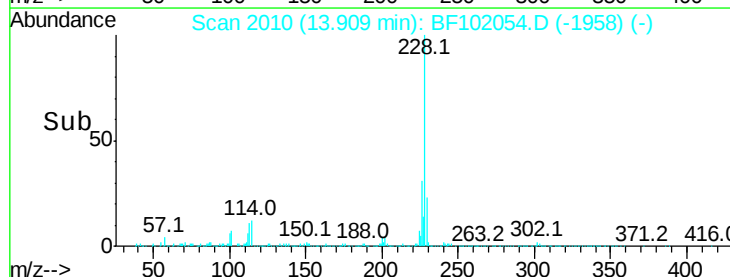
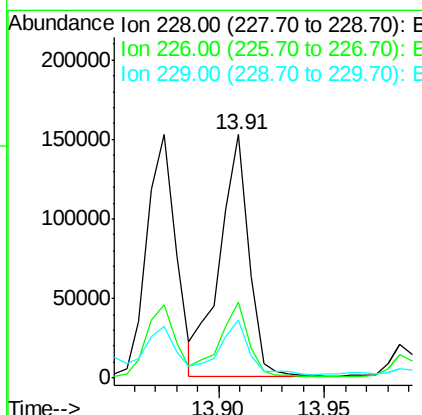
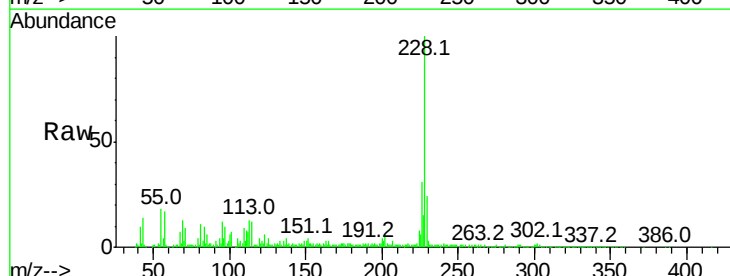
Instrument :
BNA_F
ClientSampleId :

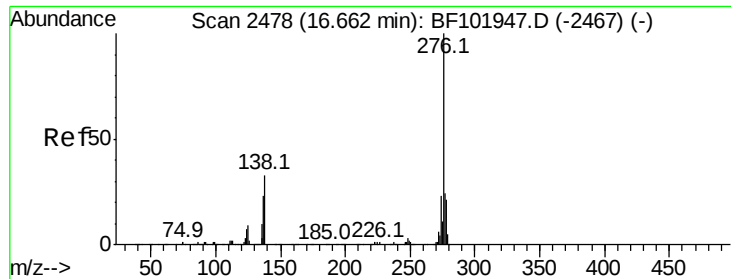
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	21.4	15.8	23.6



#82
Chrysene
Concen: 6.085 ng
RT: 13.91 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF102054.D
Acq: 12 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	23.7	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.046 ng

RT: 16.69 min Scan# 2482

Delta R.T. 0.02 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

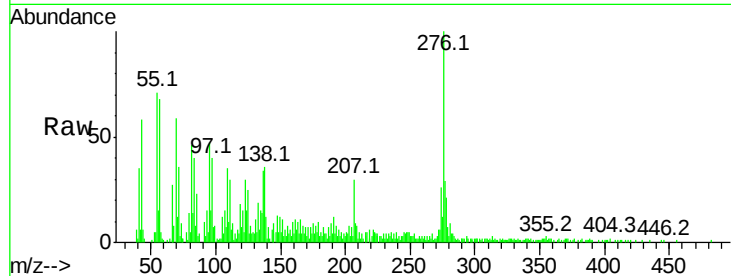
Tot Ion:276 Resp: 53222

Ion Ratio Lower Upper

276 100

138 34.0 25.0 37.6

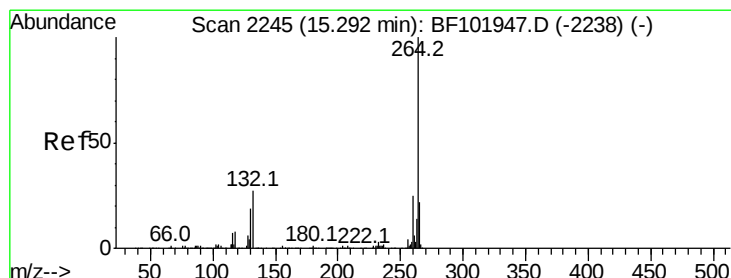
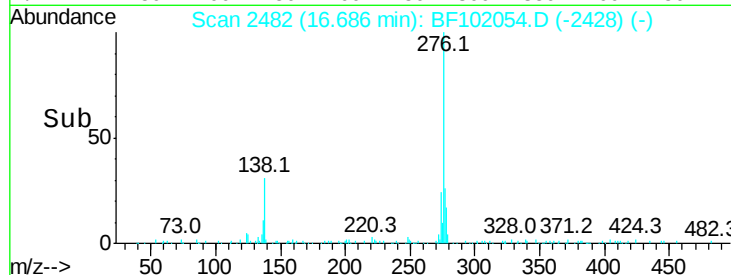
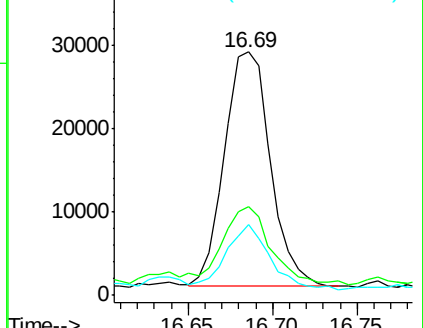
277 26.9 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.31 min Scan# 2248

Delta R.T. 0.02 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

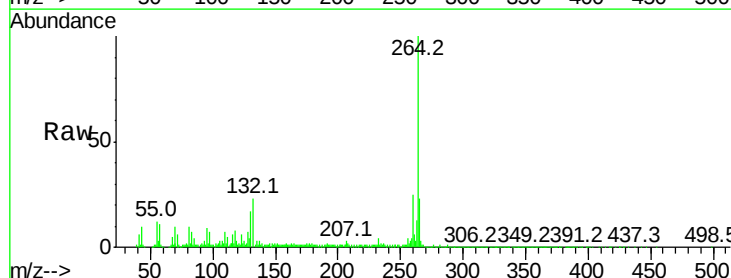
Tgt Ion:264 Resp: 295648

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

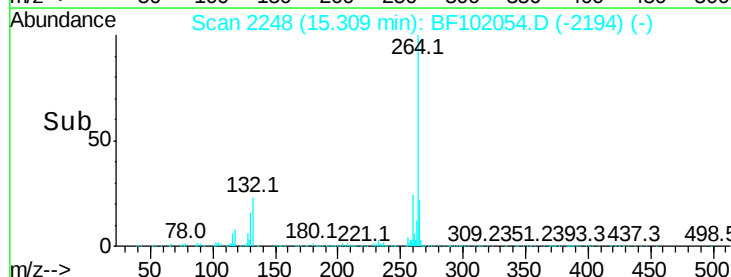
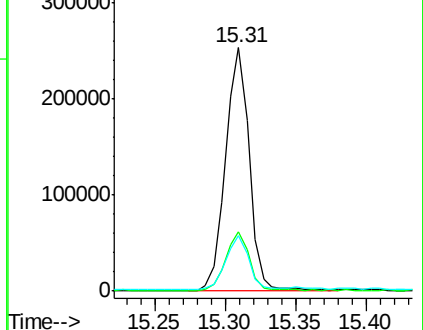
265 22.8 17.5 26.3

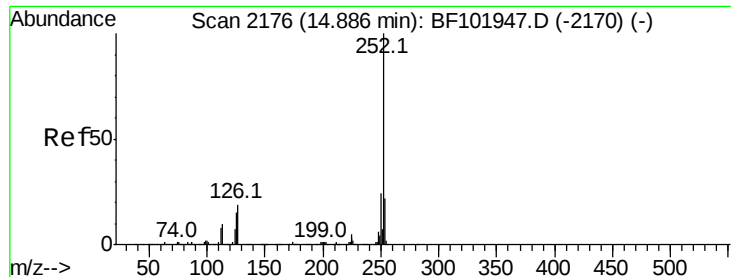


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.288 ng

RT: 14.90 min Scan# 2178

Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

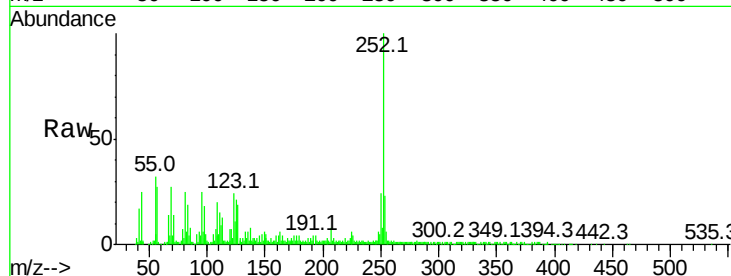
Tot Ion:252 Resp: 217611

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.6

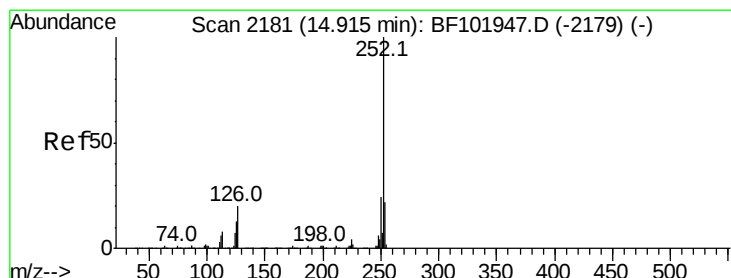
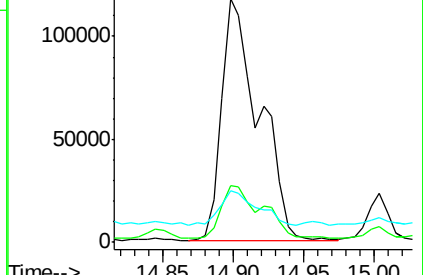
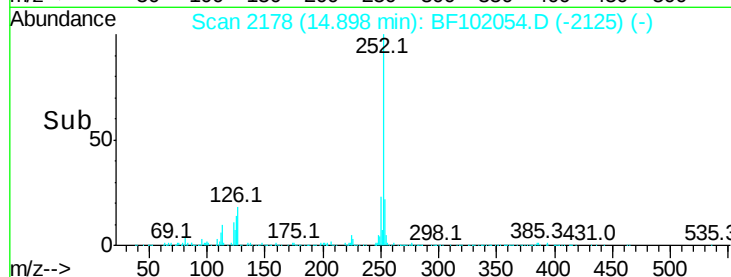
125 21.1 9.0 13.6#



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: 11.702 ng

RT: 14.90 min Scan# 2178

Delta R.T. -0.02 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

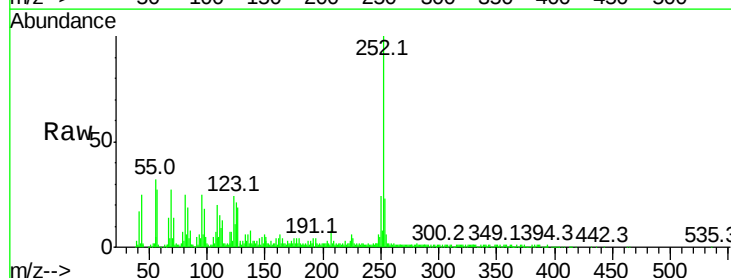
Tgt Ion:252 Resp: 217611

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

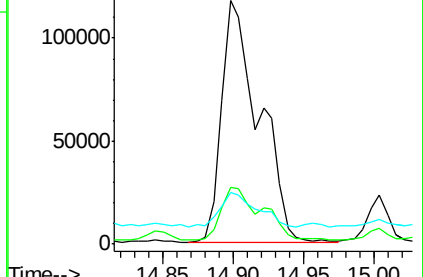
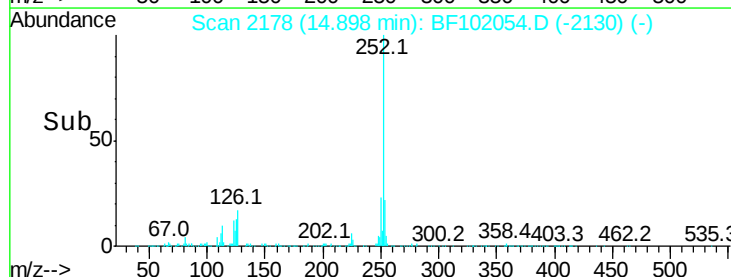
125 21.1 10.2 15.2#

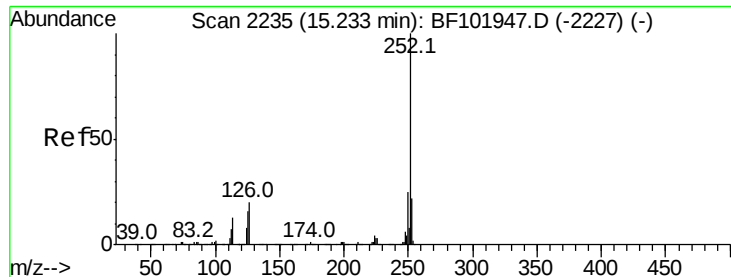


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 6.112 ng

RT: 15.24 min Scan# 2237

Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

Instrument :

BNA_F

ClientSampleId :

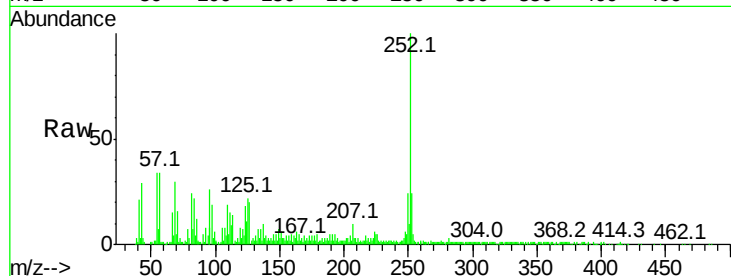
Tot Ion:252 Resp: 106032

Ion Ratio Lower Upper

252 100

253 24.1 17.1 25.7

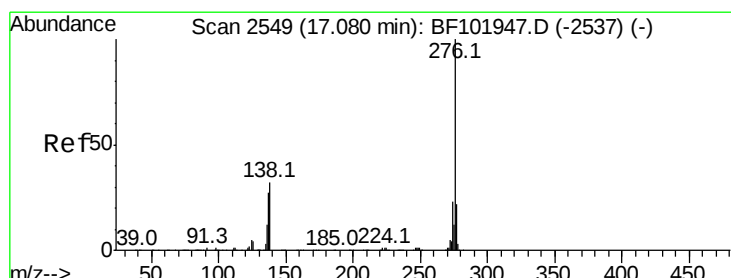
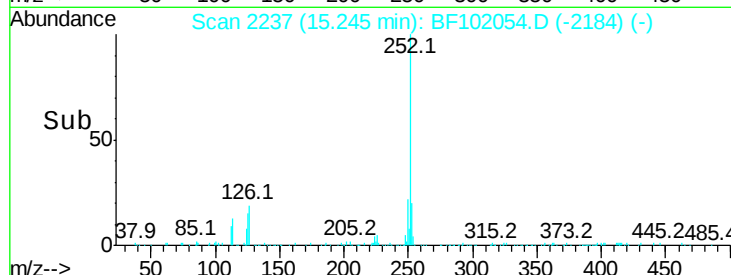
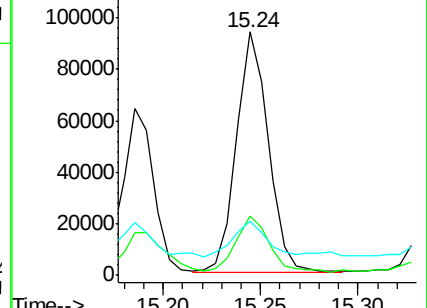
125 22.1 9.8 14.6#



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



#91

Benzo(g,h,i)perylene

Concen: 3.729 ng

RT: 17.10 min Scan# 2552

Delta R.T. 0.01 min

Lab File: BF102054.D

Acq: 12 Jan 2018 20:23

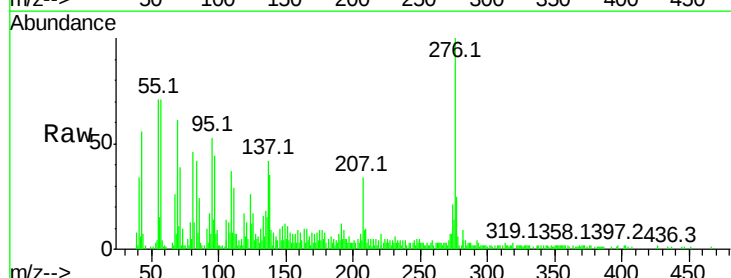
Tgt Ion:276 Resp: 51995

Ion Ratio Lower Upper

276 100

277 25.5 17.9 26.9

138 35.2 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

