

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107673.D
 Acq On : 25 Jul 2018 22:32
 Operator : JU/SJ
 Sample : J4031-09
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 26 02:07:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	202859	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	777251	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	299872	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	539399	20.00	ng	0.00
75) Chrysene-d12	14.16	240	390257	20.00	ng	0.00
86) Perylene-d12	15.69	264	342045	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	963077	76.33	ng	0.00
7) Phenol-d6	6.60	99	1199359	79.17	ng	-0.01
23) Nitrobenzene-d5	7.53	82	707156	61.40	ng	-0.02
41) 2,4,6-Tribromophenol	10.81	330	273342	80.16	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	1232994	66.15	ng	-0.01
78) Terphenyl-d14	13.09	244	992125	65.08	ng	-0.01

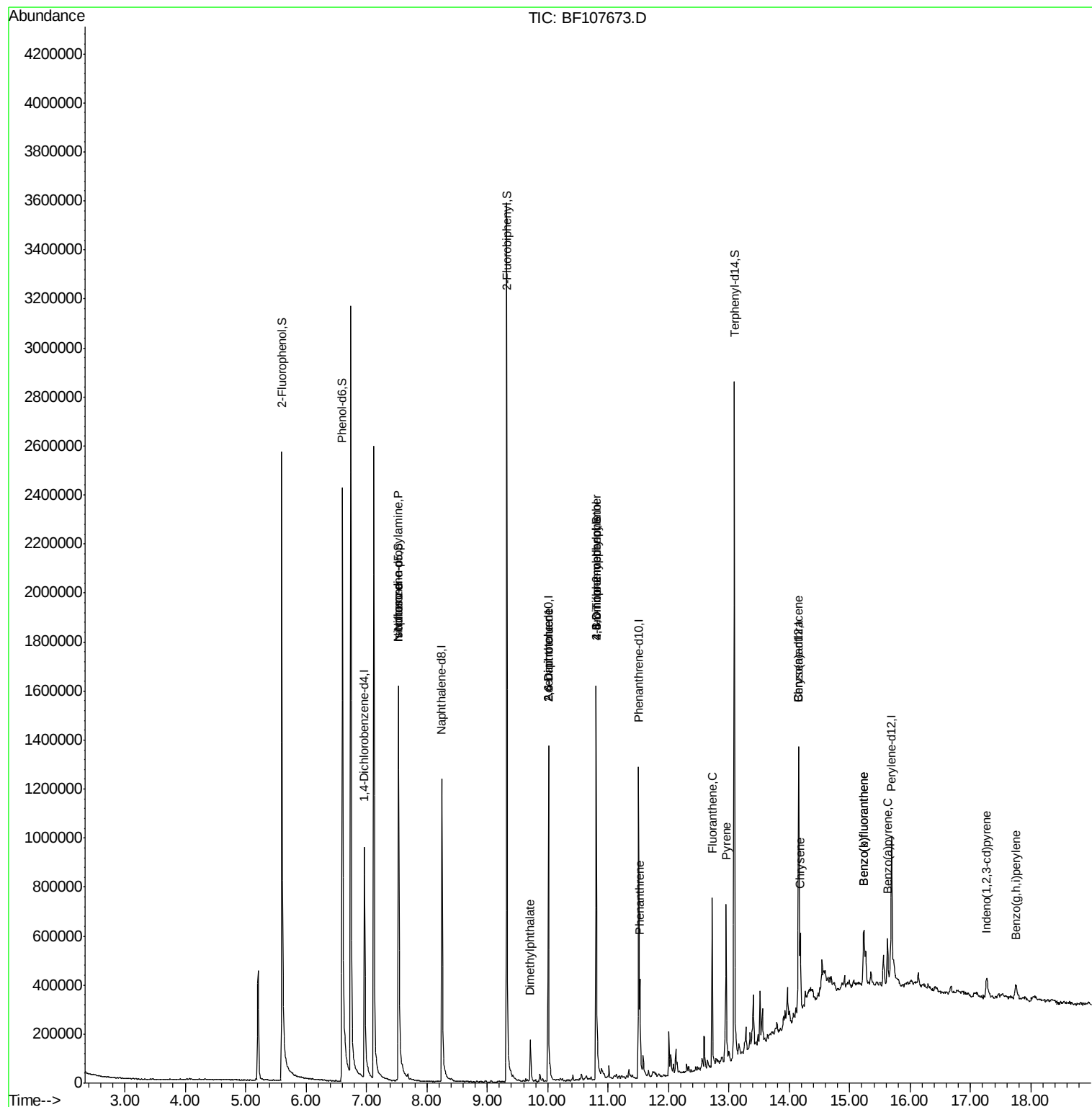
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.60	77	2048	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.53	70	89505	9.145	ng	80
25) Isophorone	7.53	82	707156	28.757	ng	64
49) Dimethylphthalate	9.71	163	79977	3.539	ng	100
50) 2,6-Dinitrotoluene	10.01	165	39204	8.737	ng	25
56) 2,4-Dinitrotoluene	10.01	165	39204	7.238	ng	23
64) 4,6-Dinitro-2-methylphenol	10.80	198	279	8.768	ng	1
66) 4-Bromophenyl-phenylether	10.81	248	16389	2.581	ng	1
70) Phenanthrene	11.53	178	145764	5.546	ng	99
73) Di-n-butylphthalate	12.05	149	14671	Below Cal	#	97
74) Fluoranthene	12.72	202	307427	10.899	ng	96
77) Pvrene	12.95	202	291750	10.929	ng	98
80) Benzo(a)anthracene	14.15	228	142677	6.239	ng	99
81) 3,3'-Dichlorobenzidine	14.10	252	413	Below Cal	#	52
82) Chrysene	14.18	228	130763	5.952	ng	99
85) Indeno(1,2,3-cd)pyrene	17.27	276	58297	3.131	ng	90
87) Benzo(b)fluoranthene	15.24	252	204044	10.900	ng	93
88) Benzo(k)fluoranthene	15.24	252	204044	11.126	ng	96
89) Benzo(a)pvrene	15.62	252	112264	6.556	ng	98
91) Benzo(a,h,i)perylene	17.75	276	63169	4.326	ng	92

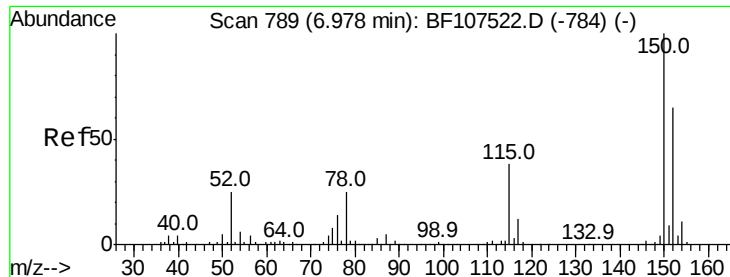
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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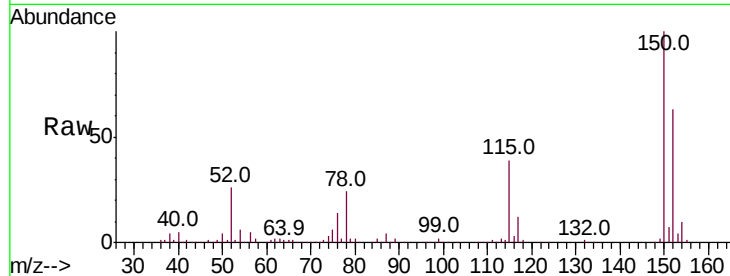


#1

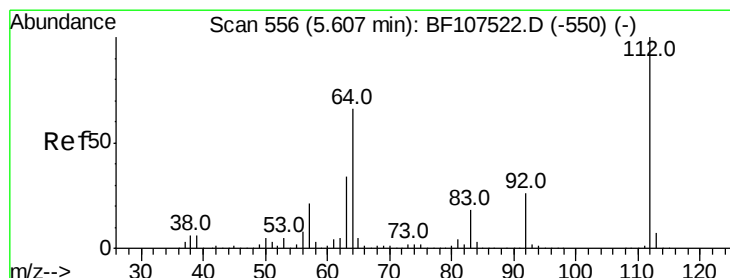
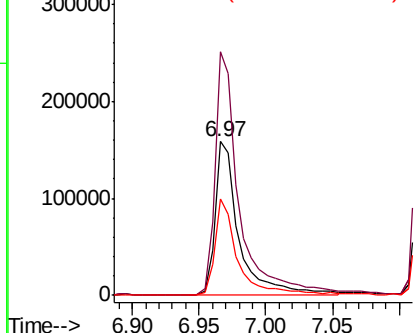
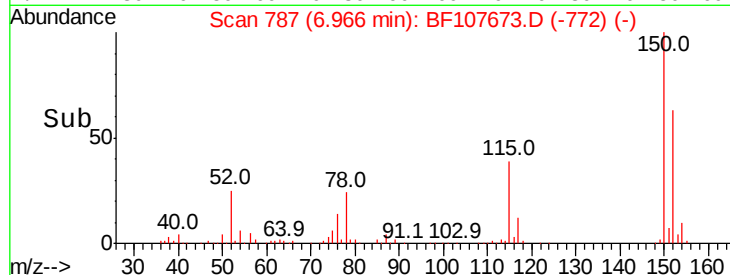
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 202859
Ion Ratio Lower Upper
152 100
150 158.6 124.6 186.8
115 62.5 50.1 75.1



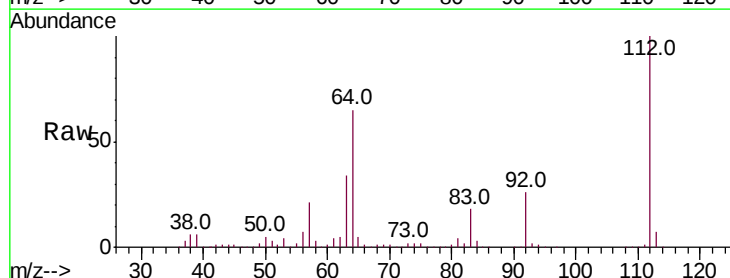
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



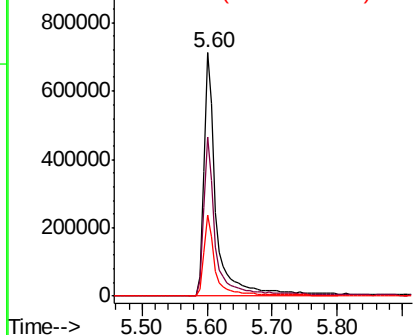
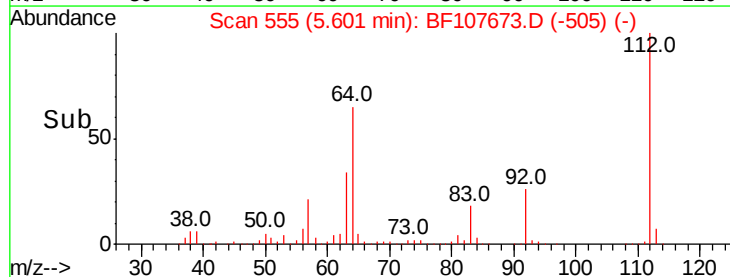
#5

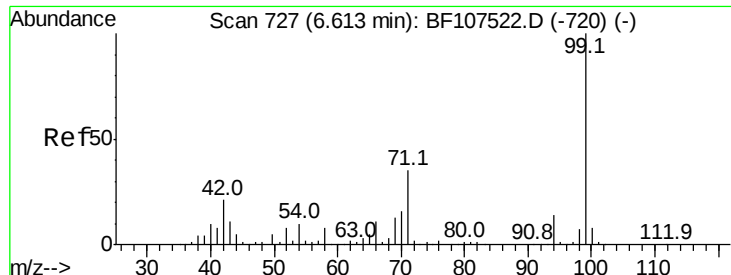
2-Fluorophenol
Concen: 76.331 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

Tgt Ion:112 Resp: 963077
Ion Ratio Lower Upper
112 100
64 65.4 47.9 71.9
63 33.5 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: 79.166 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampled :

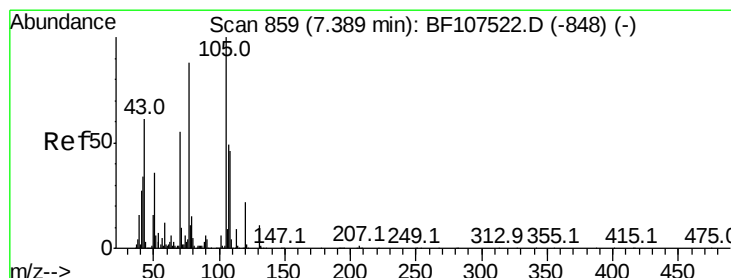
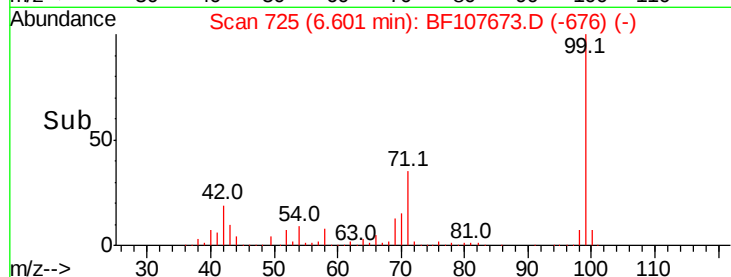
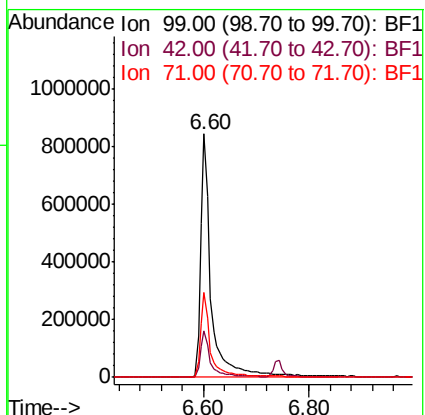
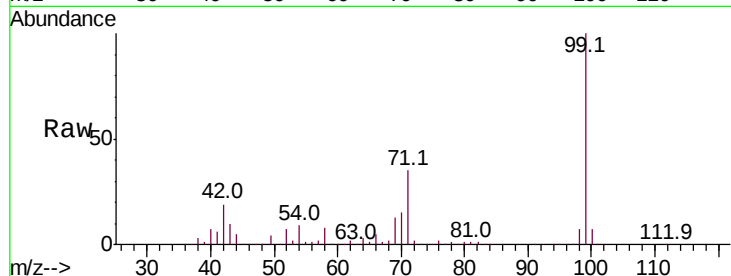
Tot Ion: 99 Resp: 1199359

Ion Ratio Lower Upper

99 100

42 19.2 14.5 21.7

71 34.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 9.145 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Tgt Ion: 70 Resp: 89505

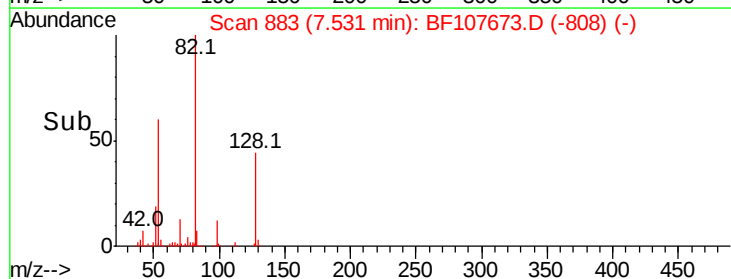
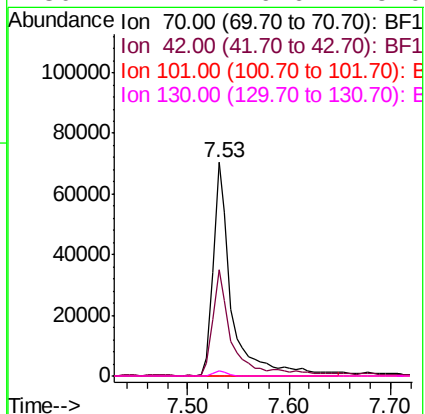
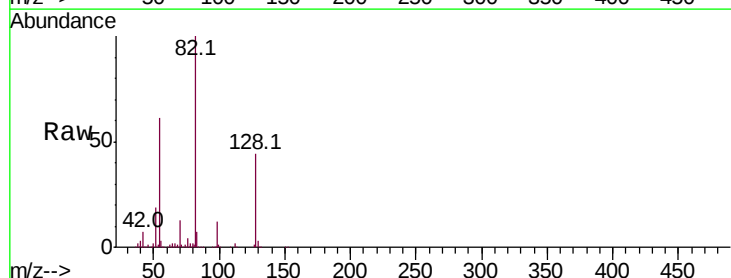
Ion Ratio Lower Upper

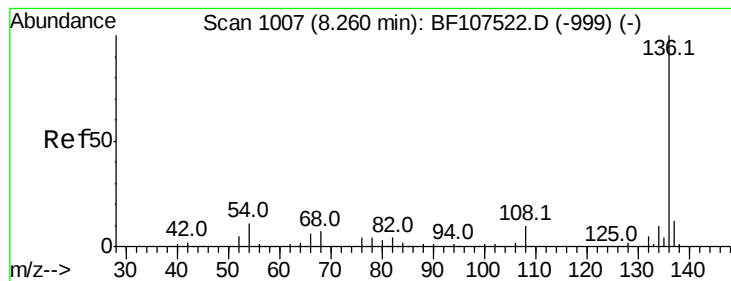
70 100

42 50.0 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 777251

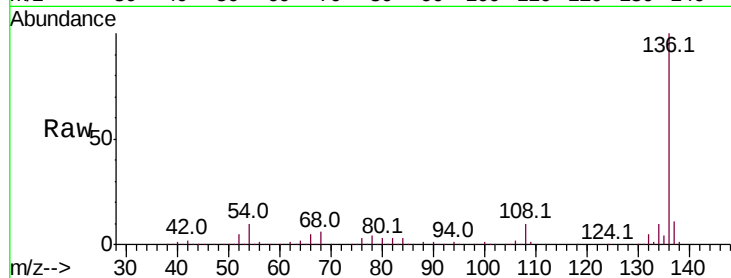
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 10.2 6.6 9.8#

68 5.9 5.0 7.4

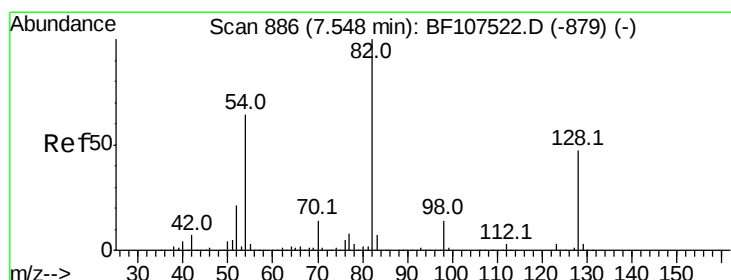
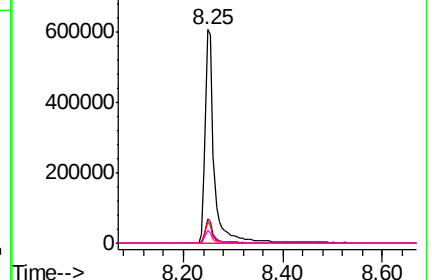
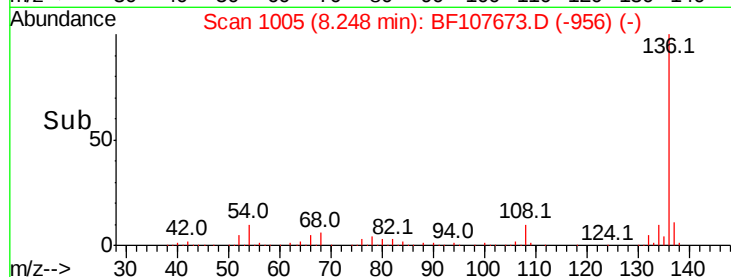


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.401 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

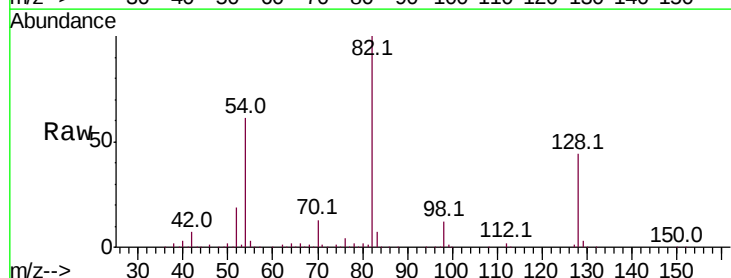
Tgt Ion: 82 Resp: 707156

Ion Ratio Lower Upper

82 100

128 44.3 36.1 54.1

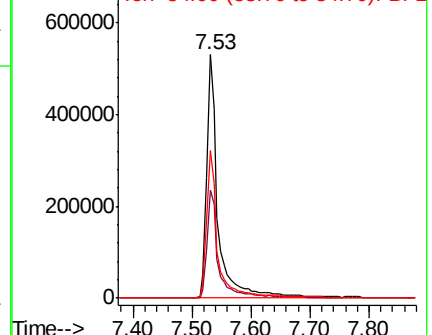
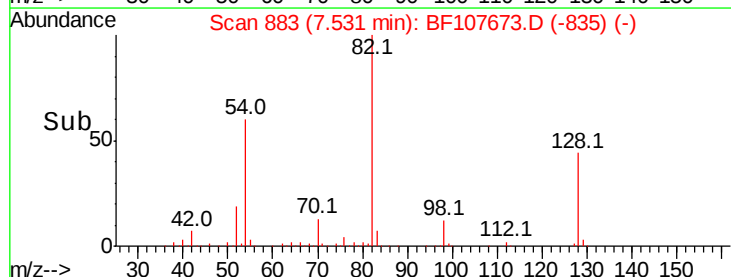
54 60.5 41.4 62.2

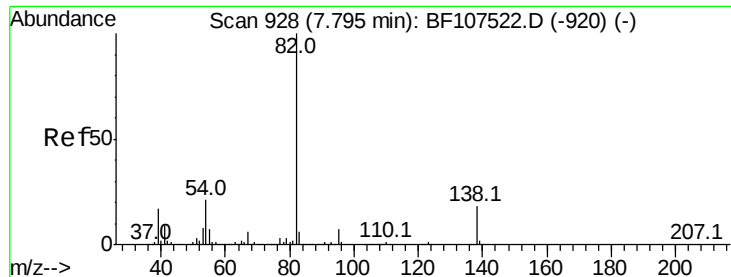


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 28.757 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampleId :

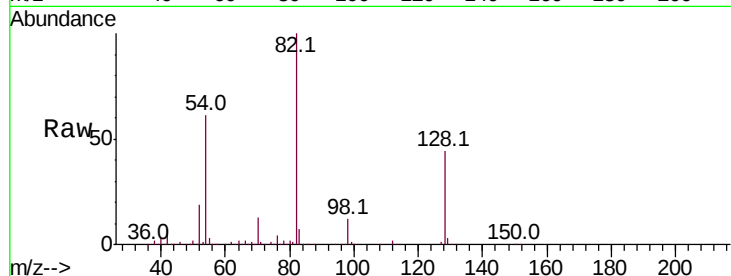
Tot Ion: 82 Resp: 707156

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

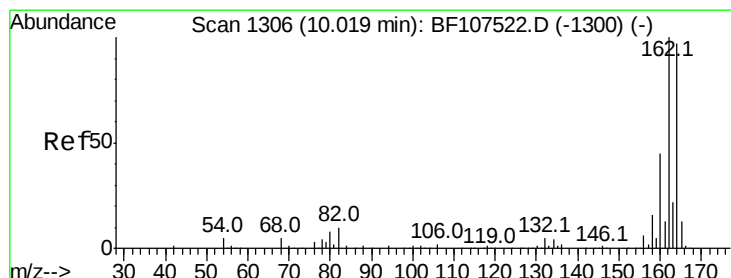
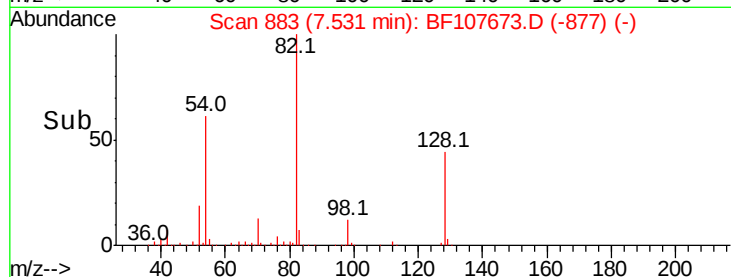
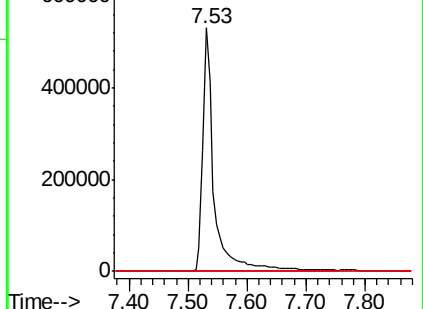
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

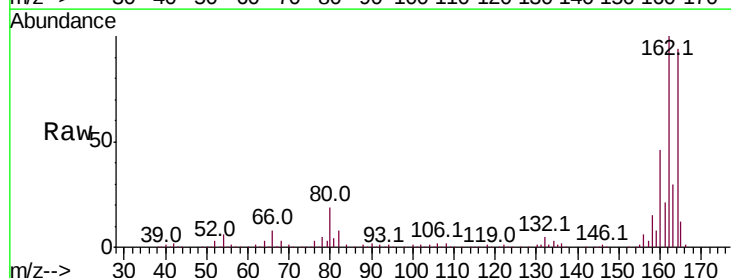
Tgt Ion:164 Resp: 299872

Ion Ratio Lower Upper

164 100

162 106.2 86.1 129.1

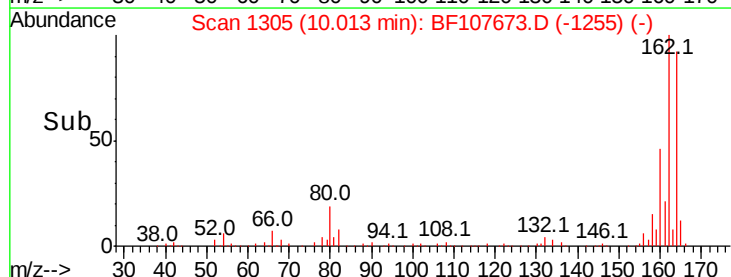
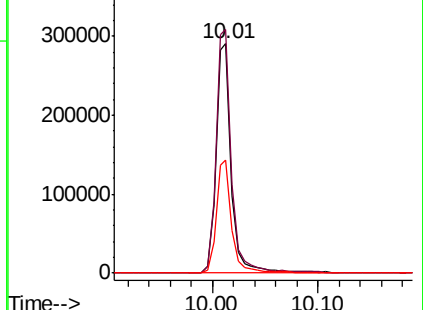
160 49.1 38.3 57.5

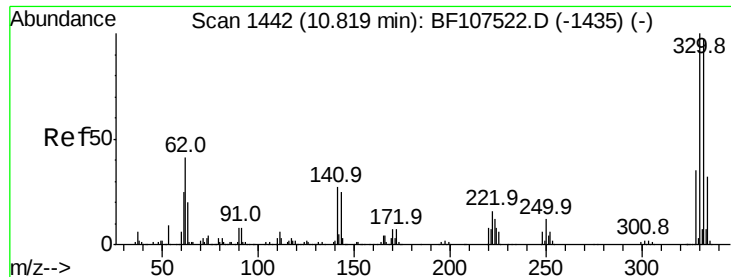


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

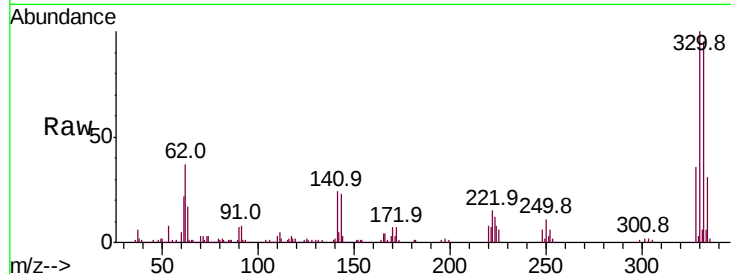




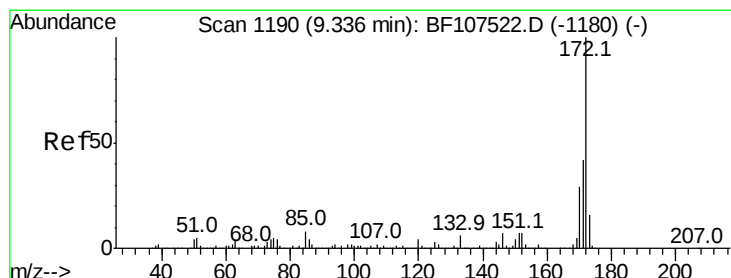
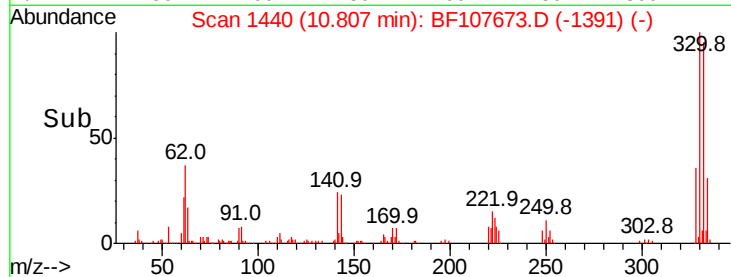
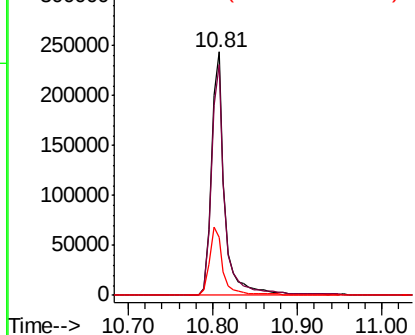
#41
 2,4,6-Tribromophenol
 Concen: 80.159 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 273342
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.0 115.6
 141 29.0 29.9 44.9#

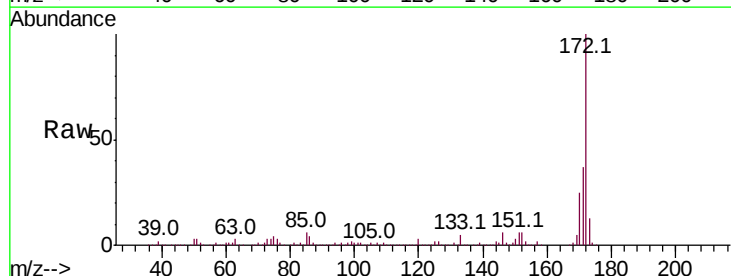


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

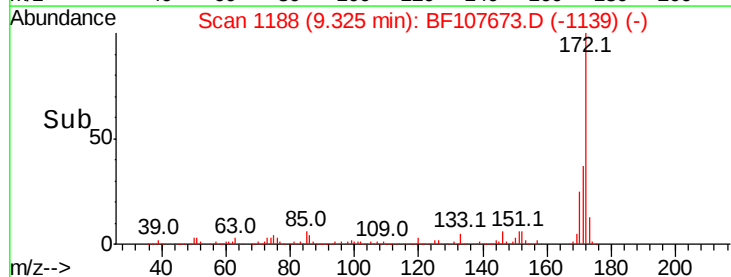
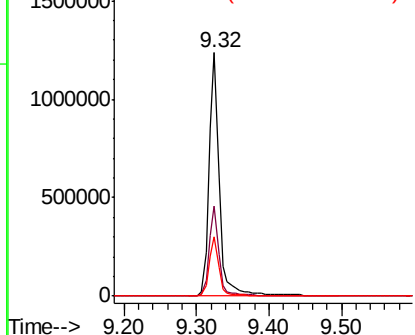


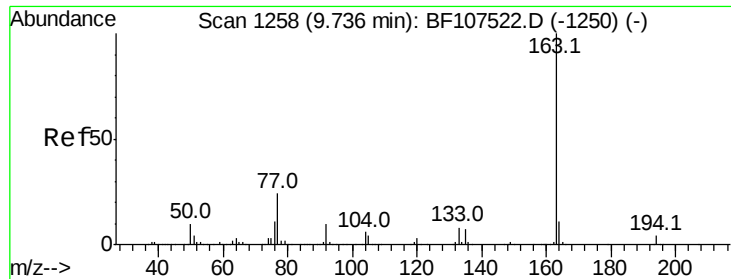
#44
 2-Fluorobiphenyl
 Concen: 66.147 ng
 RT: 9.32 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Tgt Ion:172 Resp: 1232994
 Ion Ratio Lower Upper
 172 100
 171 37.2 29.7 44.5
 170 24.6 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: 3.539 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampleId :

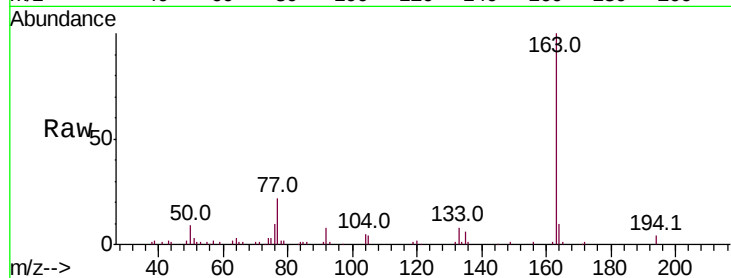
Tot Ion:163 Resp: 79977

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

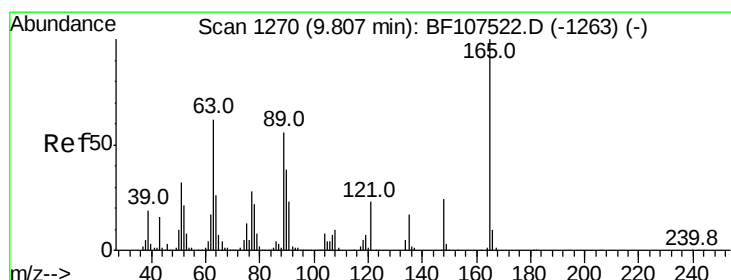
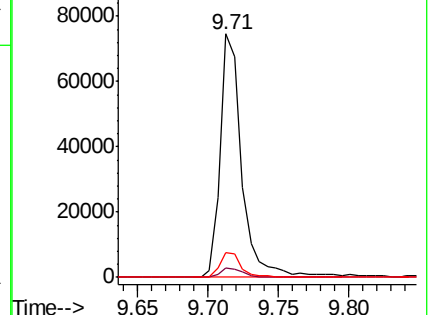
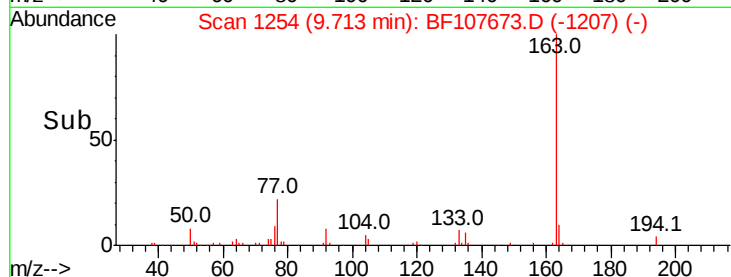
164 10.1 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.737 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

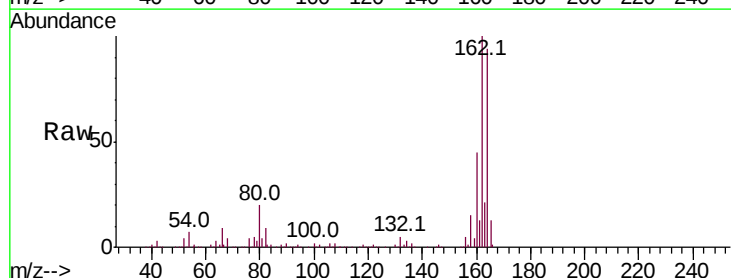
Tgt Ion:165 Resp: 39204

Ion Ratio Lower Upper

165 100

63 1.2 44.7 67.1#

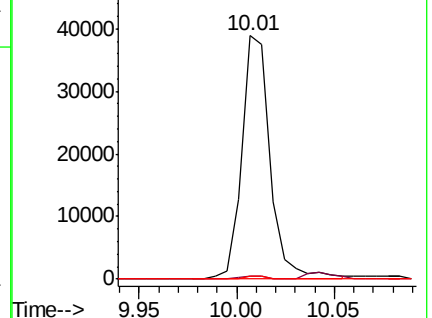
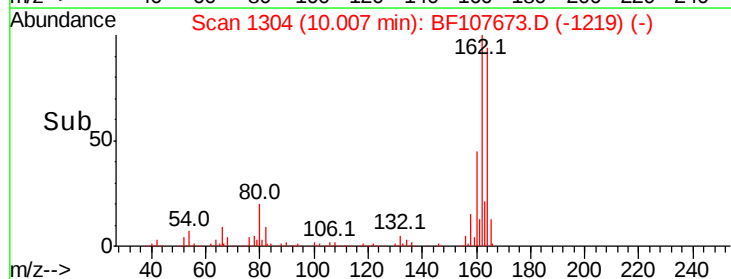
89 1.5 44.0 66.0#

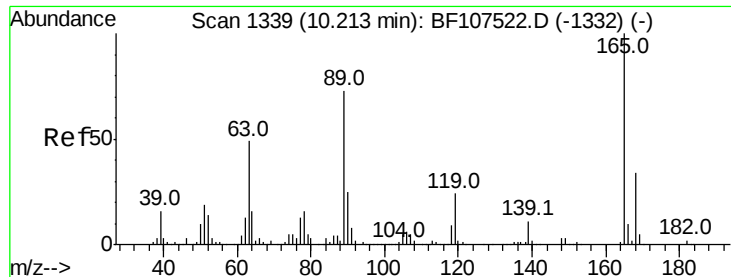


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

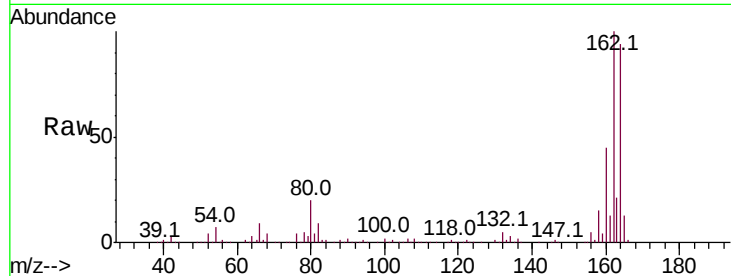




#56
 2,4-Dinitrotoluene
 Concen: 7.238 ng
 RT: 10.01 min Scan# 1304
 Delta R.T. -0.21 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Instrument :
 BNA_F
 ClientSampleId :

Tot 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#



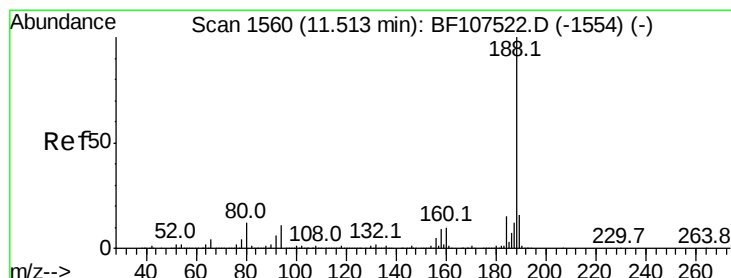
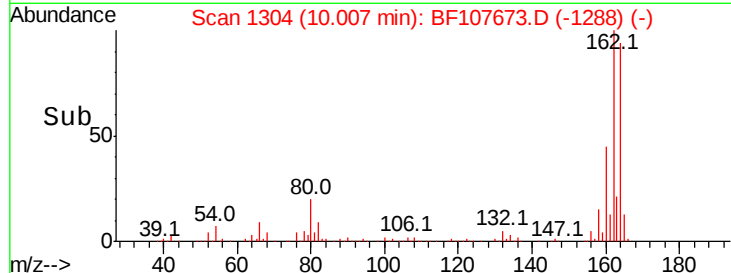
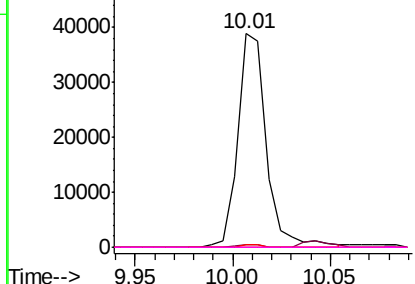
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

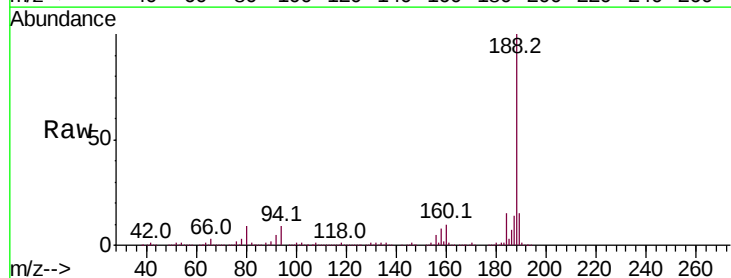
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.5	12.7
80	8.9	9.2	13.8#

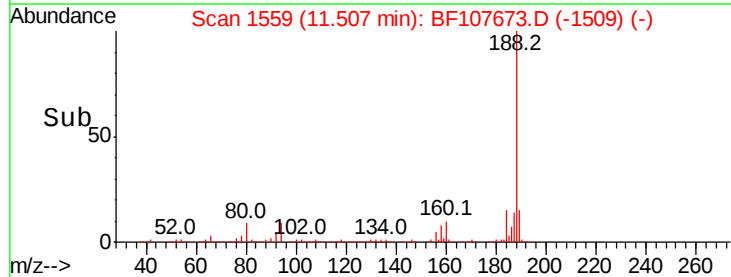
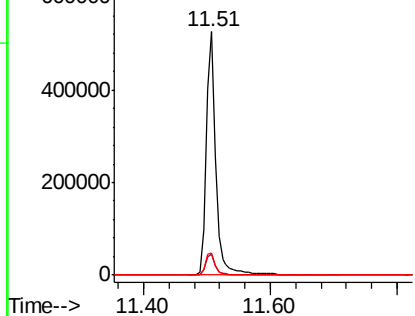


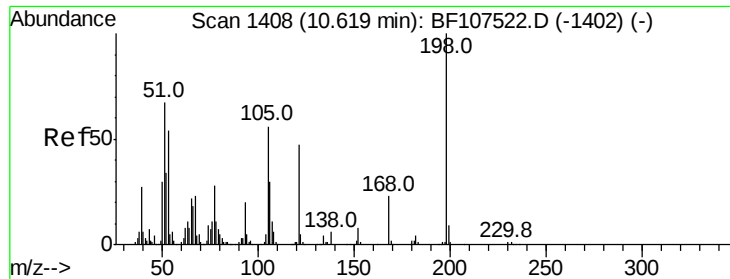
Abundance

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

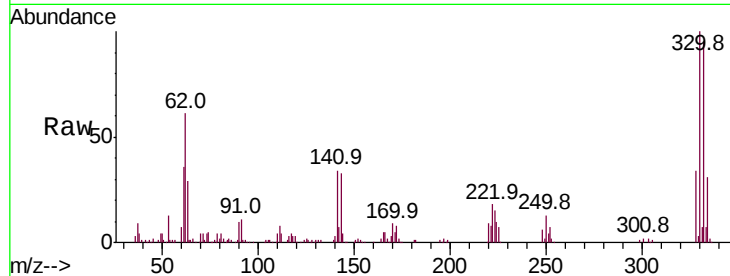




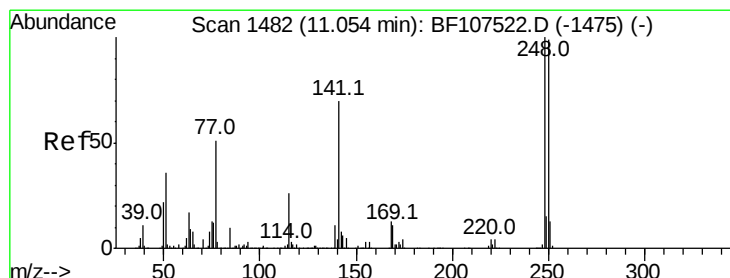
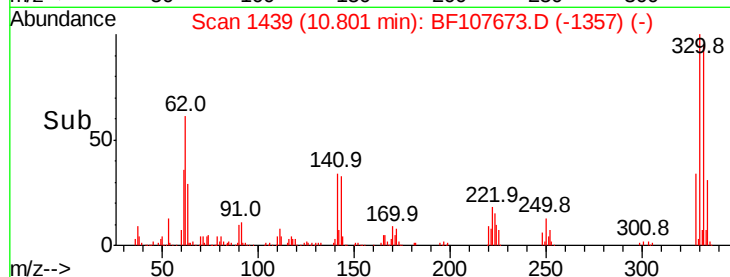
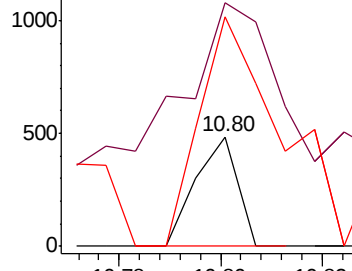
#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.768 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. 0.18 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:198 Resp: 279
 Ion Ratio Lower Upper
 198 100
 51 222.3 37.7 77.7#
 105 209.3 36.3 76.3#

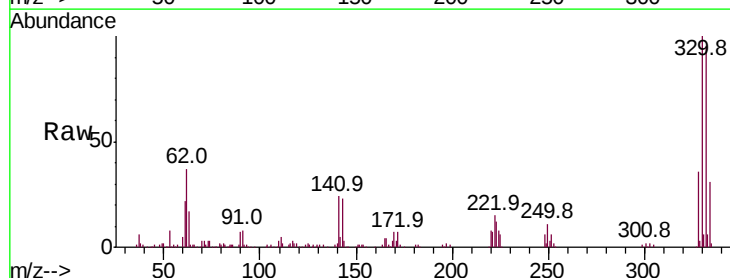


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

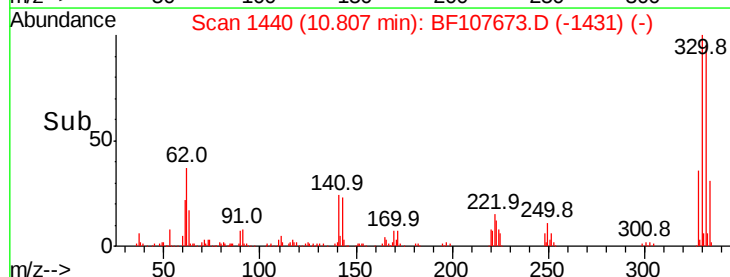
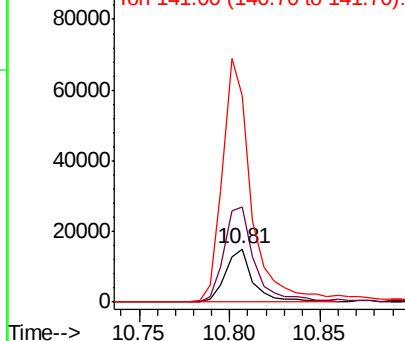


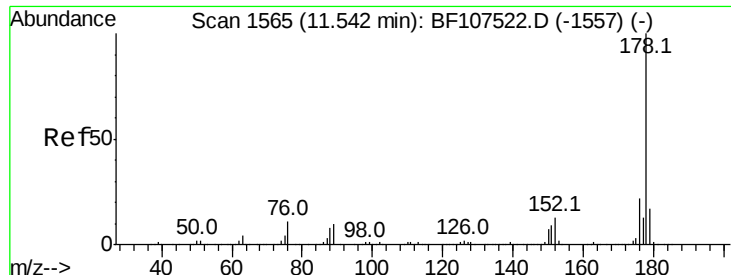
#66
 4-Bromophenyl-phenylether
 Concen: 2.581 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. -0.25 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Tgt Ion:248 Resp: 16389
 Ion Ratio Lower Upper
 248 100
 250 178.1 76.9 115.3#
 141 386.8 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

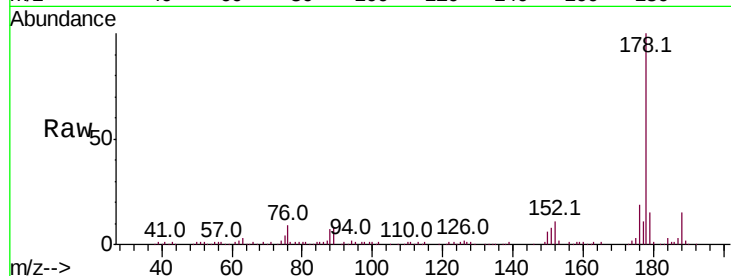




#70
Phenanthrene
Concen: 5.546 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.4	13.0	19.6

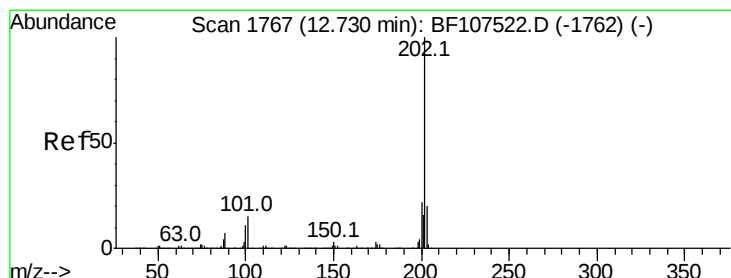
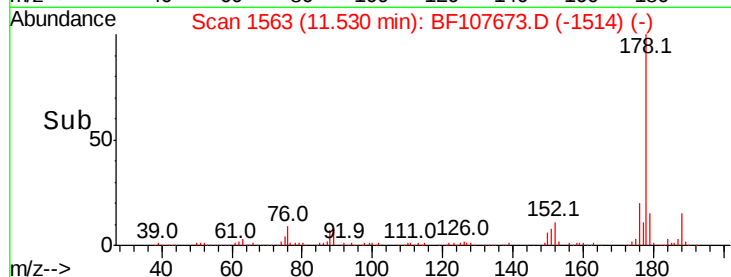
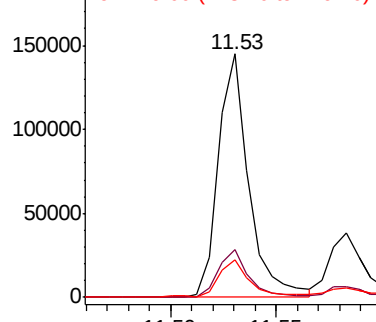


Abundance

Ion 178.00 (177.70 to 178.70): E

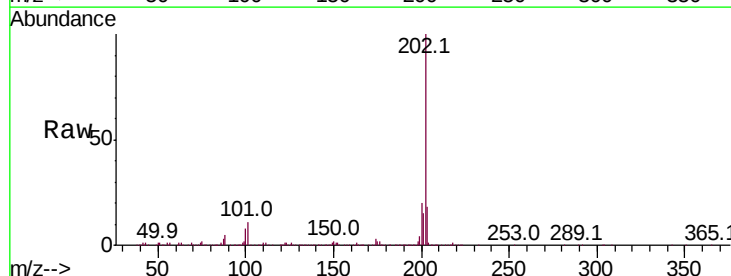
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74
Fluoranthene
Concen: 10.899 ng
RT: 12.72 min Scan# 1766
Delta R.T. -0.01 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	34.1
203	17.6	0.0	38.1

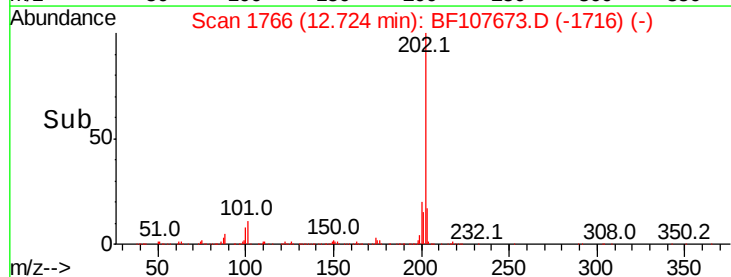
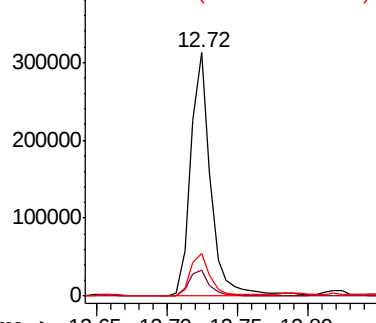


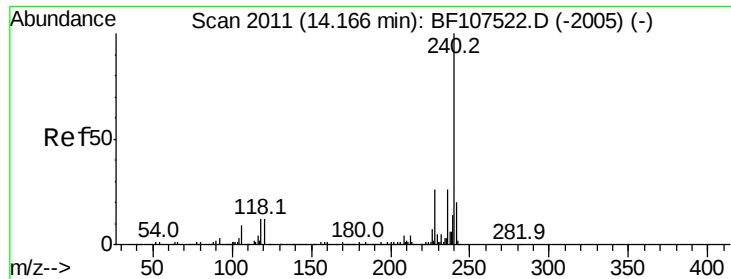
Abundance

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: 14.16 min Scan# 2010

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampled :

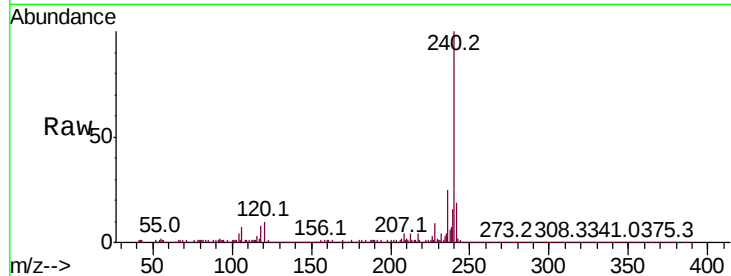
Tot Ion:240 Resp: 390257

Ion Ratio Lower Upper

240 100

120 10.0 9.5 14.3

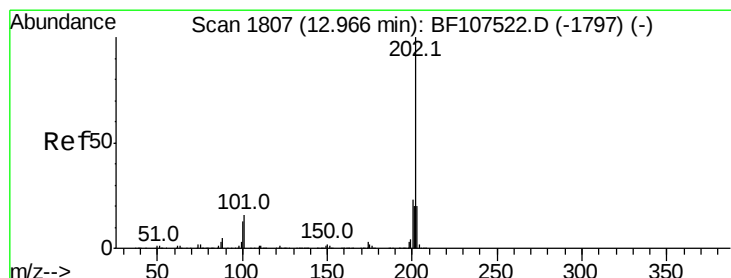
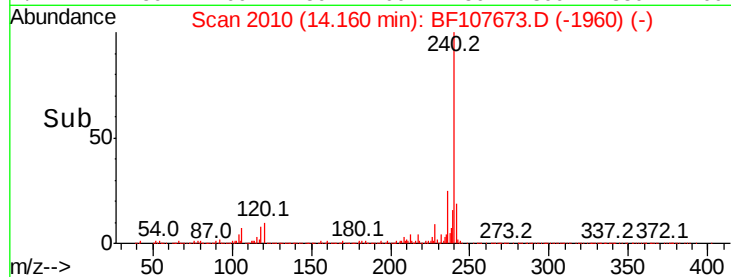
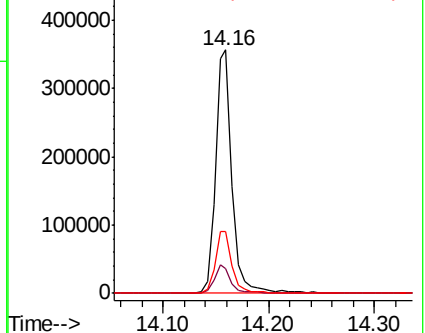
236 25.4 20.7 31.1



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

Pyrene

Concen: 10.929 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

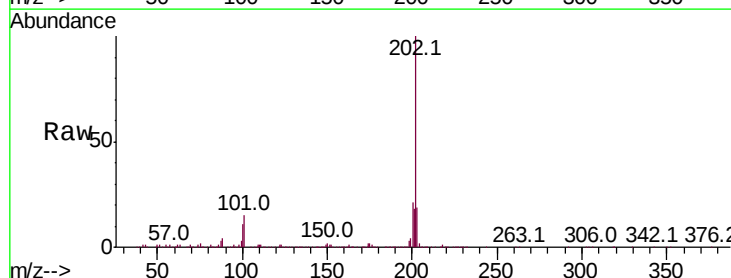
Tgt Ion:202 Resp: 291750

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

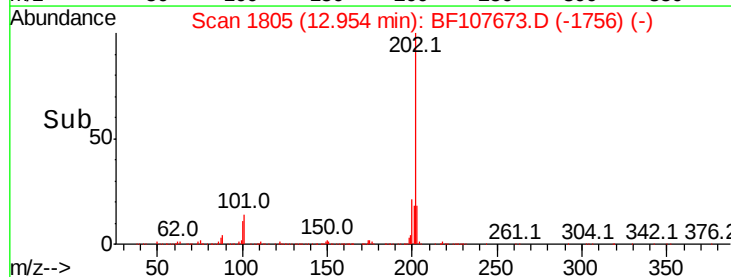
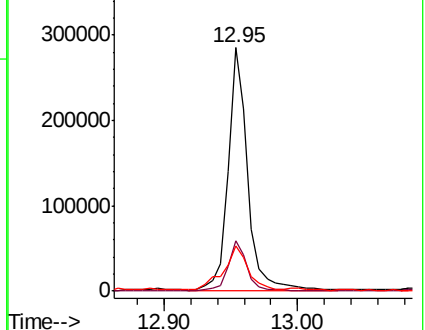
203 18.5 14.3 21.5

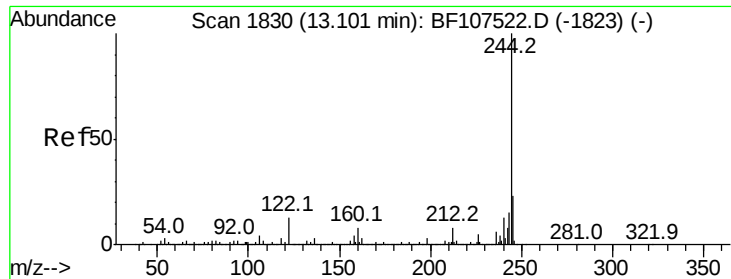


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

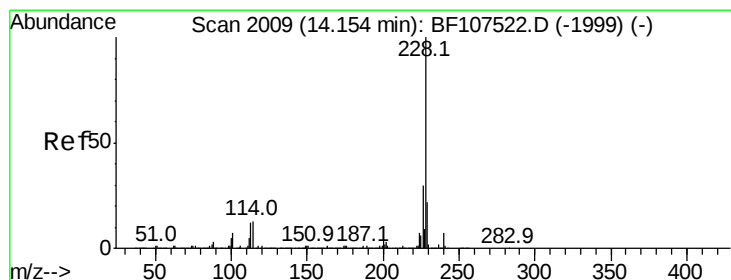
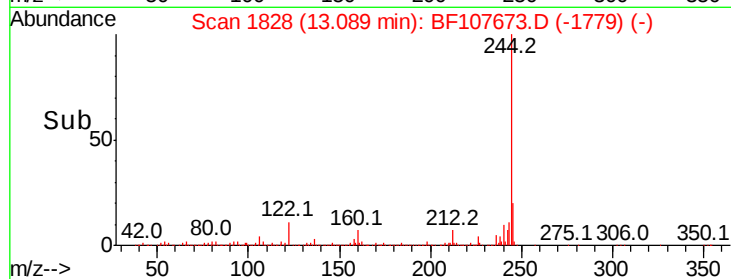
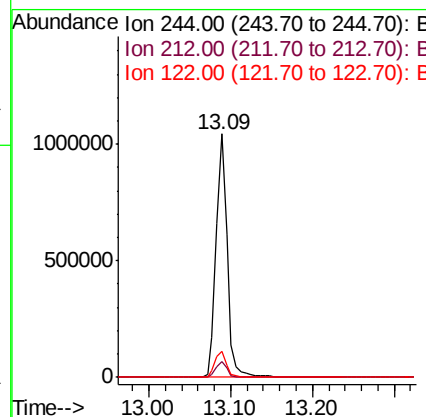
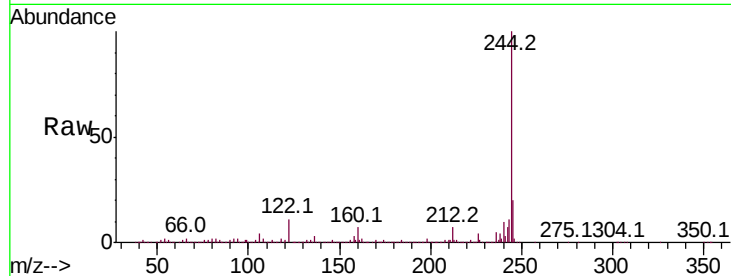




#78
 Terphenyl-d14
 Concen: 65.084 ng
 RT: 13.09 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

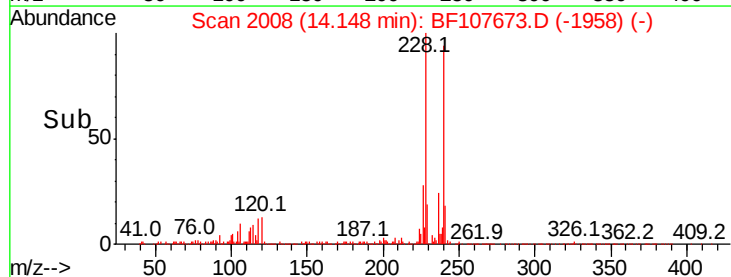
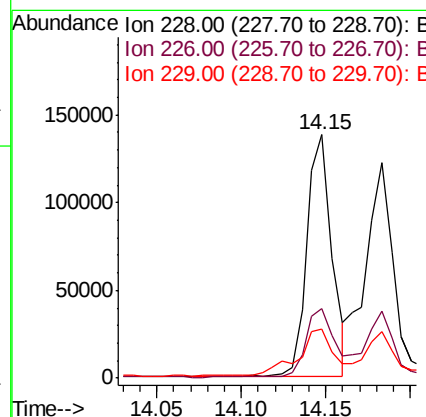
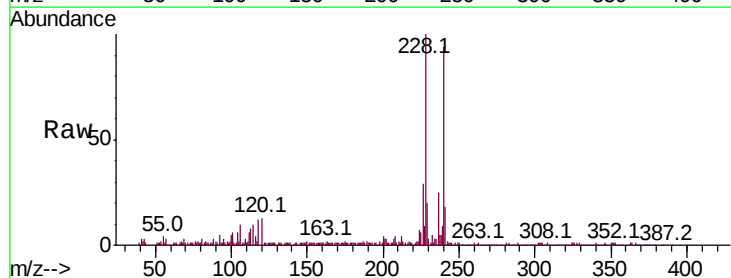
Instrument :
 BNA_F
 ClientSampleId :

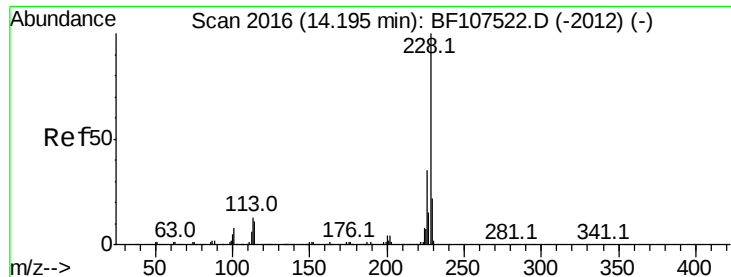
Tot Ion:244 Resp: 992125
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 10.8 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 6.239 ng
 RT: 14.15 min Scan# 2008
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Tgt Ion:228 Resp: 142677
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.6 33.8
 229 19.9 15.8 23.6

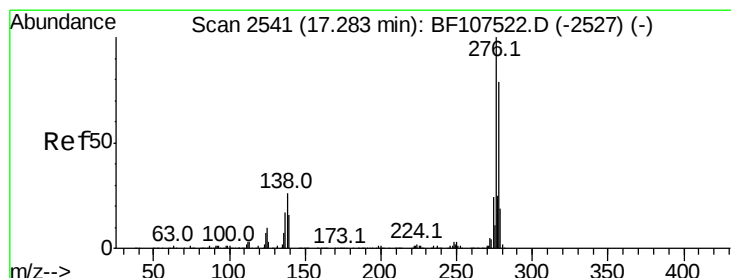
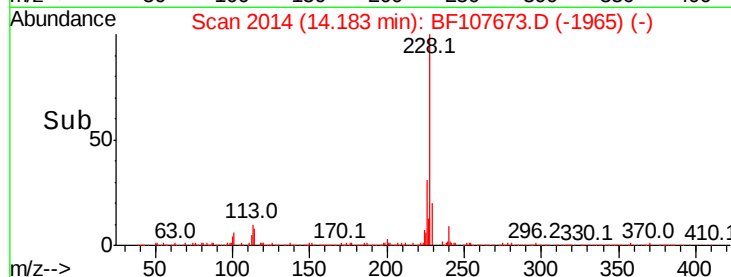
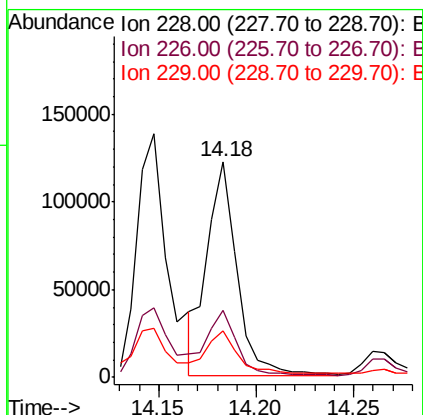
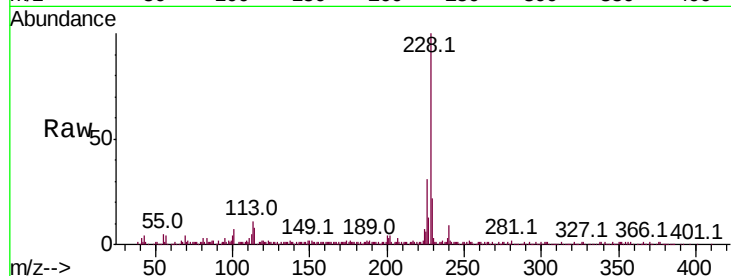




#82
Chrysene
Concen: 5.952 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

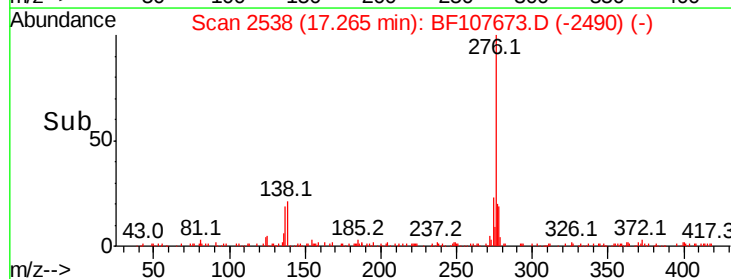
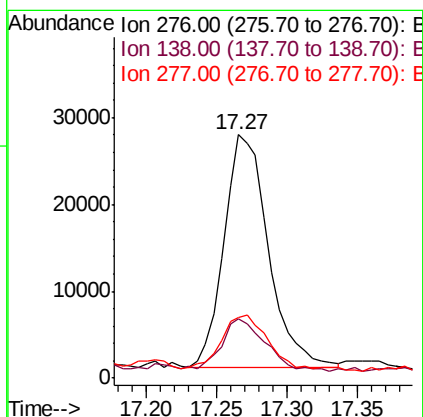
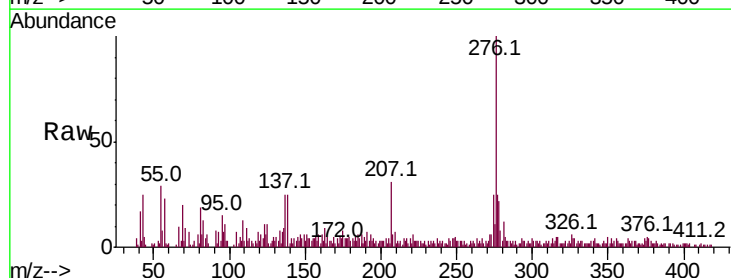
Instrument :
BNA_F
ClientSampleId :

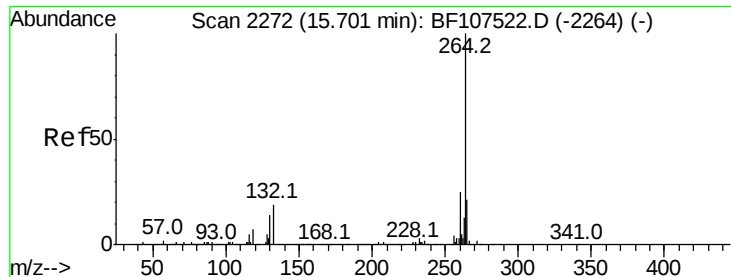
Tot Ion:228 Resp: 130763
Ion Ratio Lower Upper
228 100
226 31.3 25.0 37.6
229 21.6 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.131 ng
RT: 17.27 min Scan# 2538
Delta R.T. -0.02 min
Lab File: BF107673.D
Acq: 25 Jul 2018 22:32

Tgt Ion:276 Resp: 58297
Ion Ratio Lower Upper
276 100
138 23.3 25.0 37.6#
277 26.9 20.1 30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2271

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

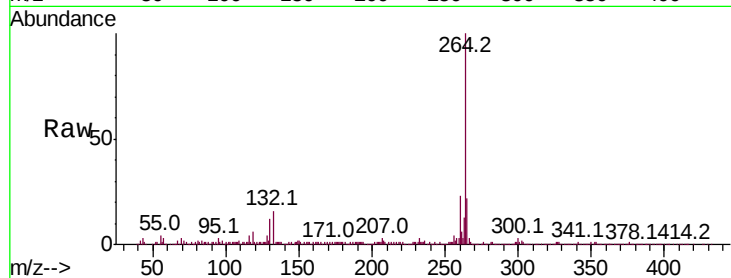
Instrument :

BNA_F

ClientSampleId :

Tot Ion:264 Resp: 342045

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	21.7	17.5	26.3

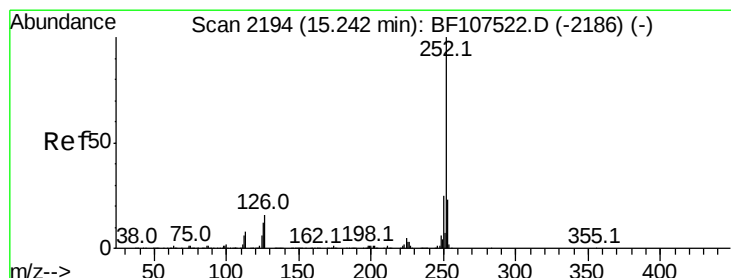
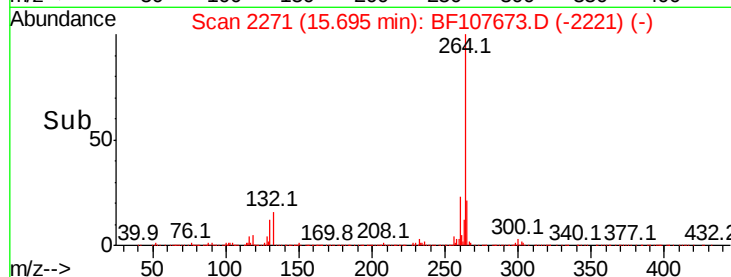
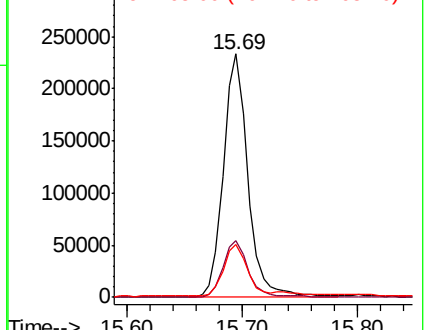


Abundance

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: 10.900 ng

RT: 15.24 min Scan# 2193

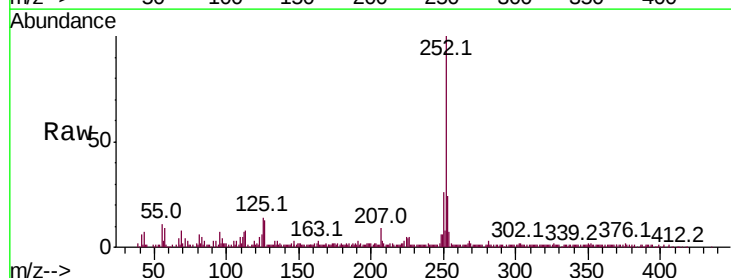
Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Tgt Ion:252 Resp: 204044

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.0	25.6
125	14.0	9.0	13.6

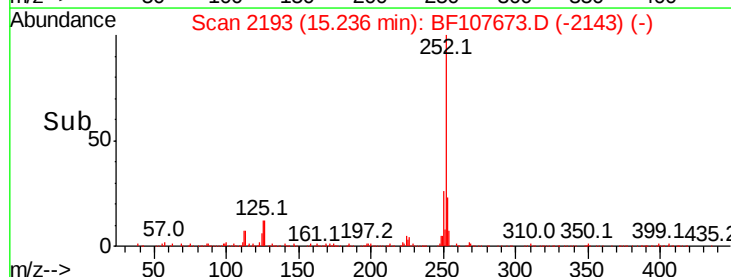
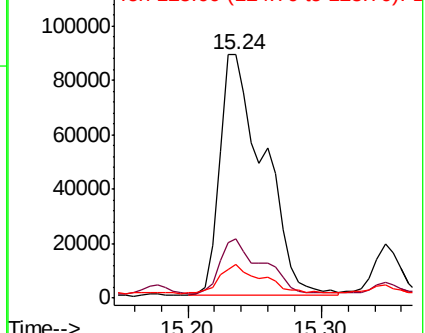


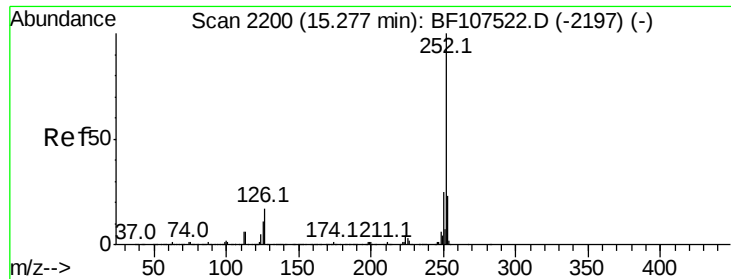
Abundance

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: 11.126 ng

RT: 15.24 min Scan# 2193

Delta R.T. -0.04 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

Instrument :

BNA_F

ClientSampleId :

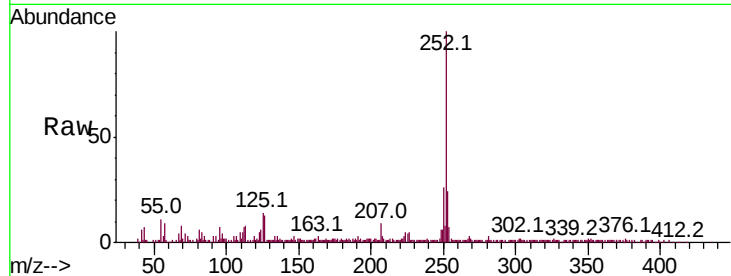
Tot Ion:252 Resp: 204044

Ion Ratio Lower Upper

252 100

253 24.3 17.9 26.9

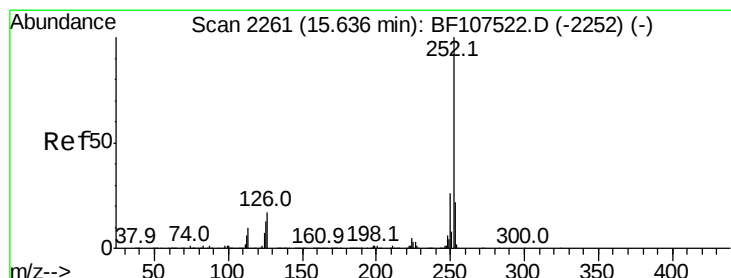
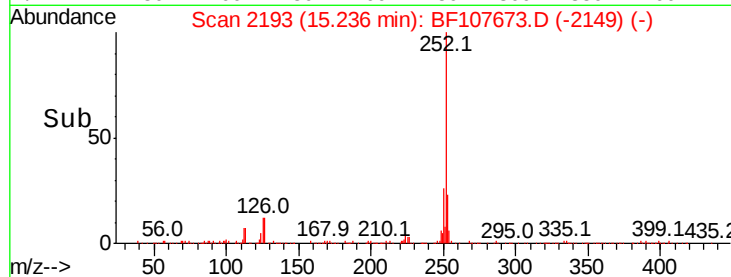
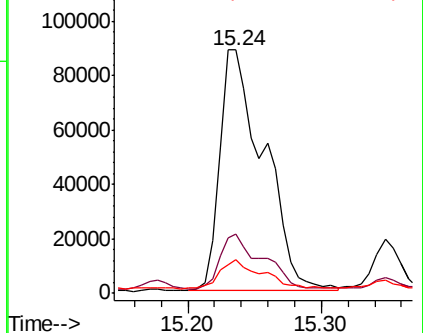
125 14.0 10.2 15.2



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: 6.556 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF107673.D

Acq: 25 Jul 2018 22:32

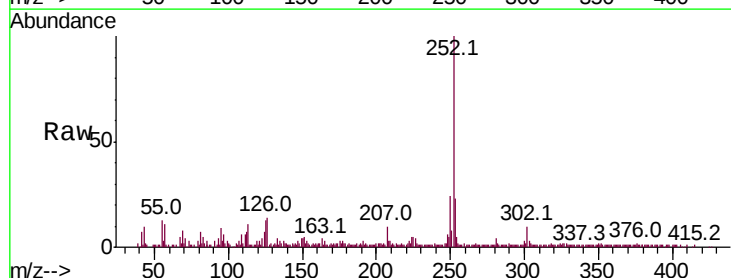
Tgt Ion:252 Resp: 112264

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

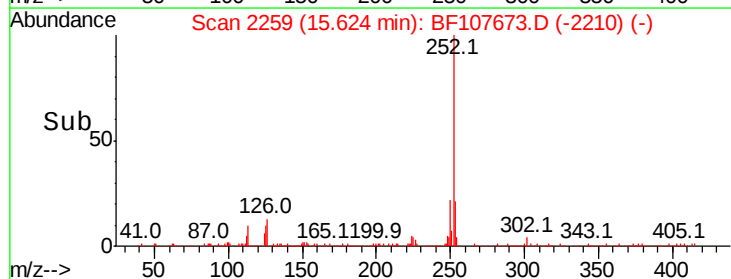
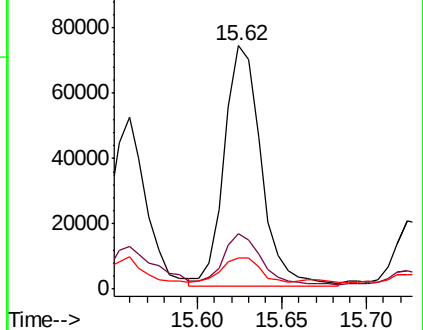
125 13.0 9.8 14.6

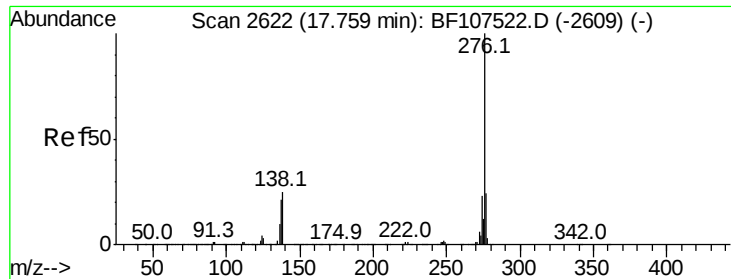


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 4.326 ng
 RT: 17.75 min Scan# 2620
 Delta R.T. -0.01 min
 Lab File: BF107673.D
 Acq: 25 Jul 2018 22:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	17.9	26.9
138	22.9	21.8	32.8

