

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
 Data File : BF107820.D
 Acq On : 31 Jul 2018 00:20
 Operator : JU/SJ
 Sample : J3831-03 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 31 01:06:12 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	189968	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	809298	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	326250	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	542532	20.00	ng	0.00
75) Chrysene-d12	14.15	240	491748	20.00	ng	0.00
86) Perylene-d12	15.69	264	428550	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	569766	50.97	ng	0.00
7) Phenol-d6	6.60	99	759518	51.56	ng	0.00
23) Nitrobenzene-d5	7.52	82	461360	32.84	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	170992	38.57	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	912752	38.99	ng	0.00
78) Terphenyl-d14	13.08	244	766721	33.81	ng	0.00

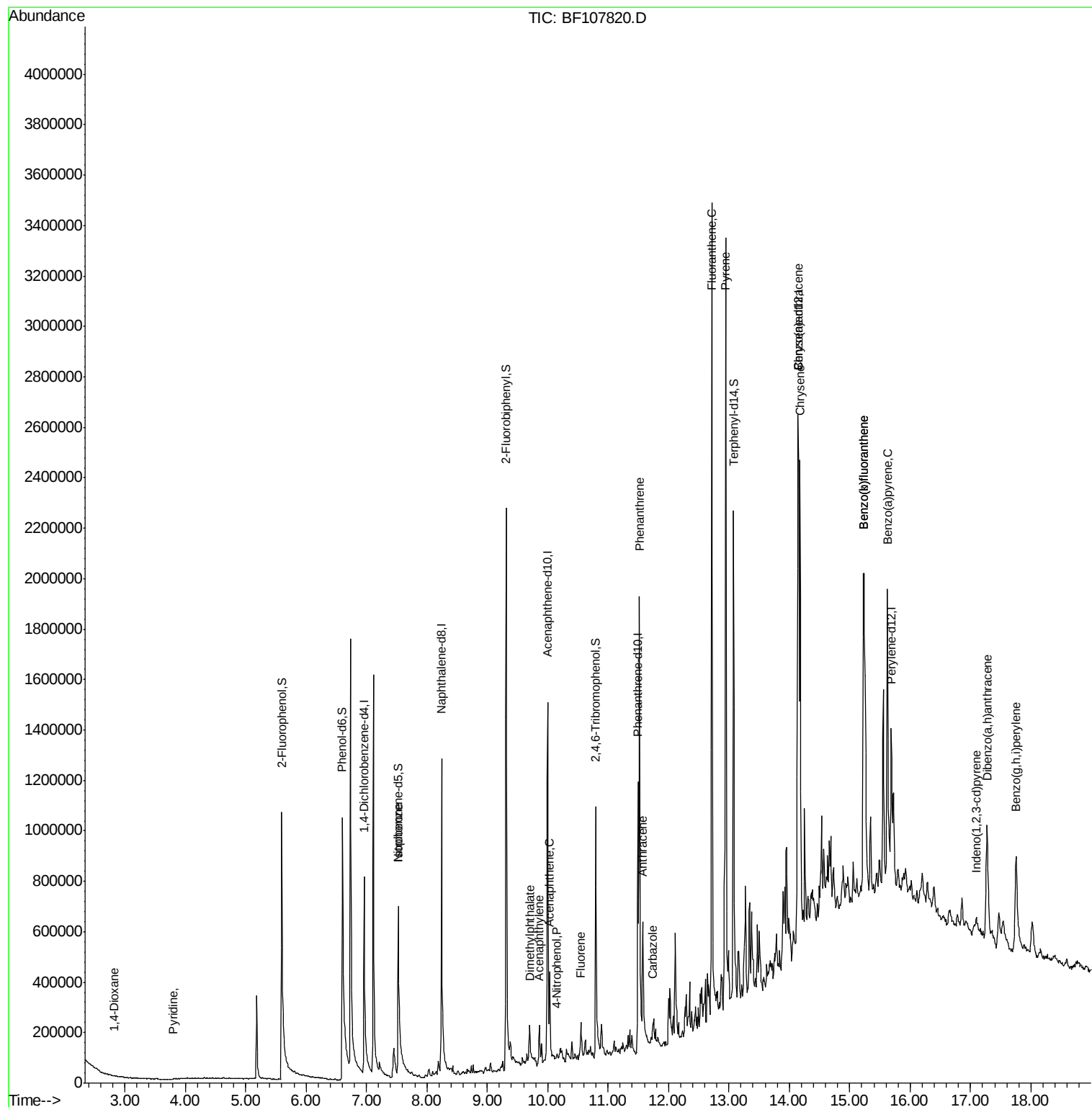
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.83	88	645	5.902	ng	# 35
3) Pyridine	3.80	79	111	6.262	ng	# 1
25) Isophorone	7.52	82	461360	20.008	ng	# 64
48) Acenaphthylene	9.87	152	89862	2.589	ng	98
49) Dimethylphthalate	9.71	163	67463	2.753	ng	# 99
51) Acenaphthene	10.03	154	71556	3.549	ng	97
55) 4-Nitrophenol	10.16	139	613	9.484	ng	# 1
57) Fluorene	10.55	166	75040	3.098	ng	# 93
70) Phenanthrene	11.52	178	759314	29.475	ng	100
71) Anthracene	11.57	178	342962	11.542	ng	98
72) Carbazole	11.74	167	88639	3.019	ng	96
74) Fluoranthene	12.72	202	1660000	54.850	ng	98
77) Pvrene	12.95	202	1585521	44.776	ng	98
80) Benzo(a)anthracene	14.14	228	910538	32.688	ng	95
82) Chrysene	14.18	228	869694	28.946	ng	98
85) Indeno(1,2,3-cd)pyrene	17.10	276	71423	3.125	ng	94
87) Benzo(b)fluoranthene	15.23	252	1341516	63.471	ng	96
88) Benzo(k)fluoranthene	15.23	252	1341516	51.697	ng	98
89) Benzo(a)pvrene	15.62	252	768114	35.203	ng	98
90) Dibenzo(a,h)anthracene	17.28	278	70605	3.710	ng	# 86
91) Benzo(g,h,i)perylene	17.75	276	420569	22.837	ng	95

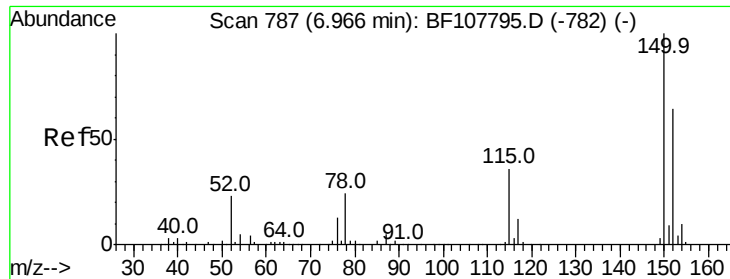
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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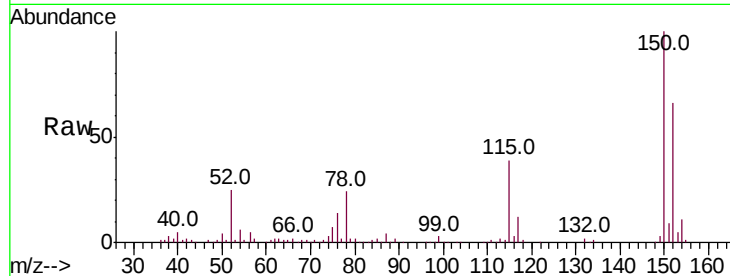


#1

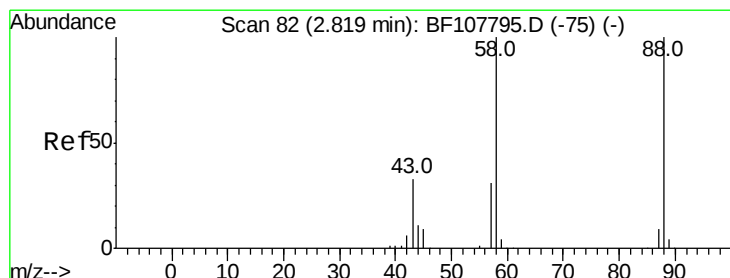
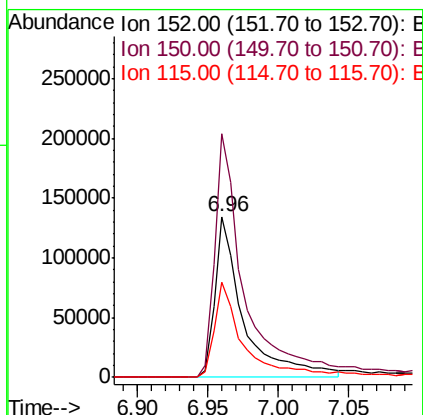
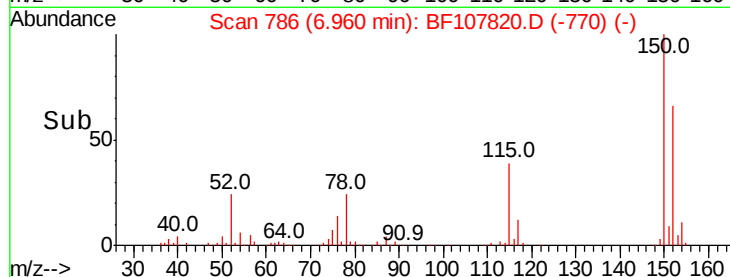
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 786
 Delta R.T. -0.01 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 189968
 Ion Ratio Lower Upper
 152 100
 150 151.3 124.6 186.8
 115 59.4 50.1 75.1



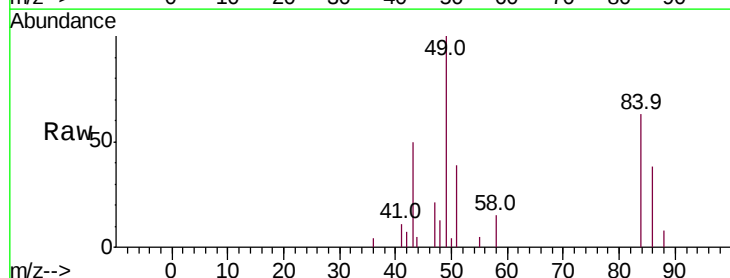
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



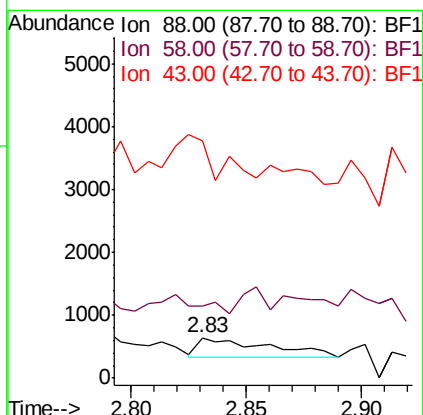
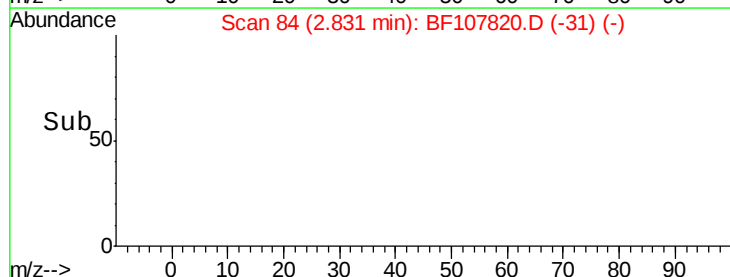
#2

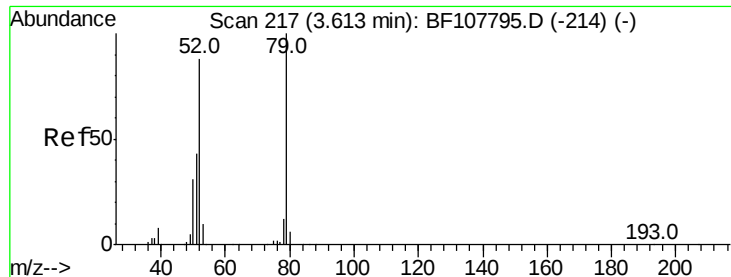
1,4-Dioxane
 Concen: 5.902 ng
 RT: 2.83 min Scan# 84
 Delta R.T. 0.01 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Tgt Ion: 88 Resp: 645
 Ion Ratio Lower Upper
 88 100
 58 54.4 62.6 93.8#
 43 119.8 24.6 37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1
 Ion 58.00 (57.70 to 58.70): BF1
 Ion 43.00 (42.70 to 43.70): BF1





#3

Pvridine

Concen: 6.262 ng

RT: 3.80 min Scan# 249

Delta R.T. 0.19 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Instrument :

BNA_F

ClientSampleId :

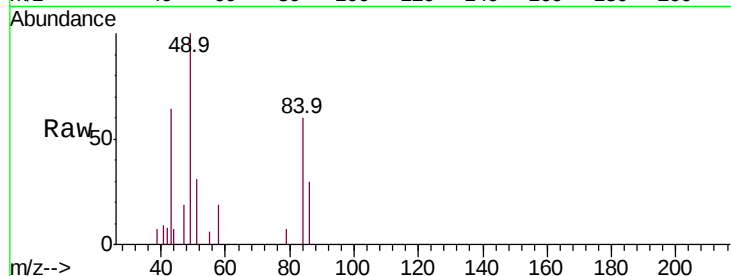
Tot Ion: 79 Resp: 111

Ion Ratio Lower Upper

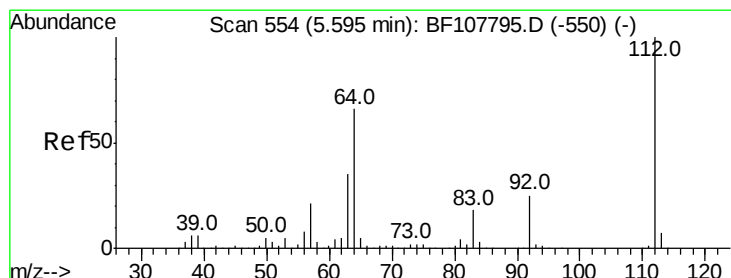
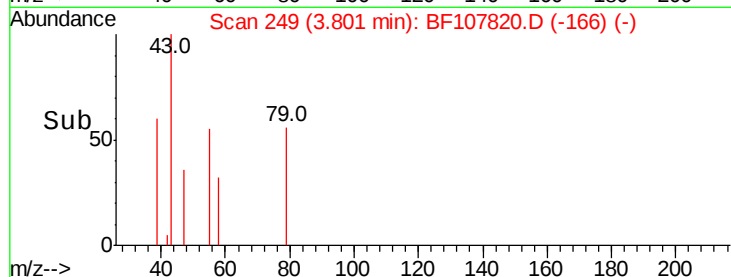
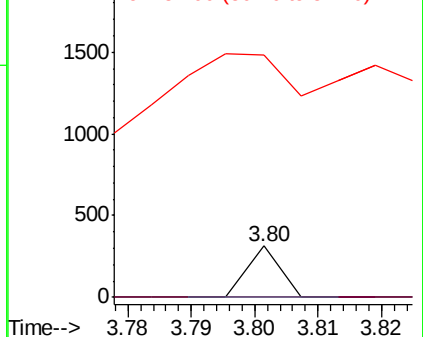
79 100

52 0.0 59.8 89.6#

51 472.3 29.8 44.8#



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 52.00 (51.70 to 52.70): BF1
Ion 51.00 (50.70 to 51.70): BF1



#5

2-Fluorophenol

Concen: 50.974 ng

RT: 5.60 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

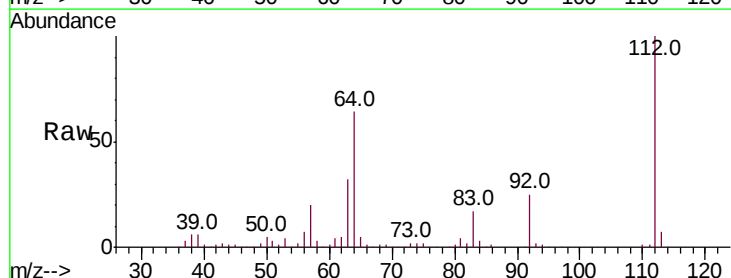
Tgt Ion: 112 Resp: 569766

Ion Ratio Lower Upper

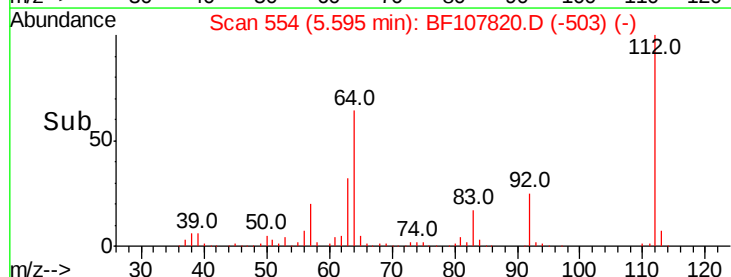
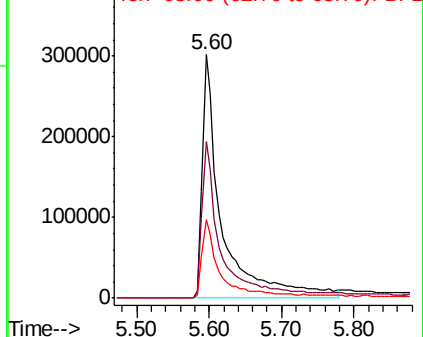
112 100

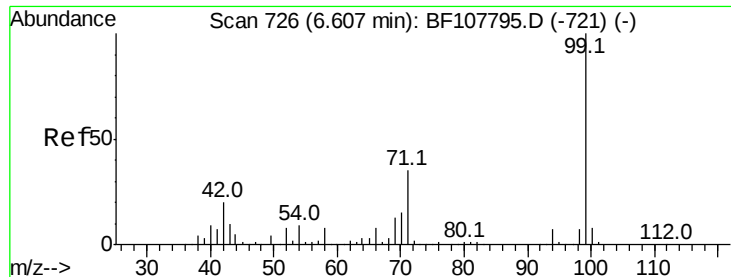
64 64.1 47.9 71.9

63 32.1 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: 51.558 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Instrument :

BNA_F

ClientSampleId :

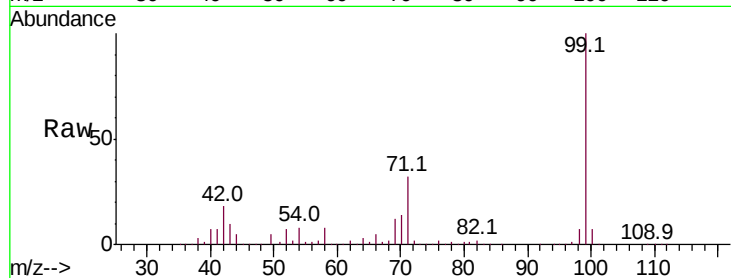
Tot Ion: 99 Resp: 759518

Ion Ratio Lower Upper

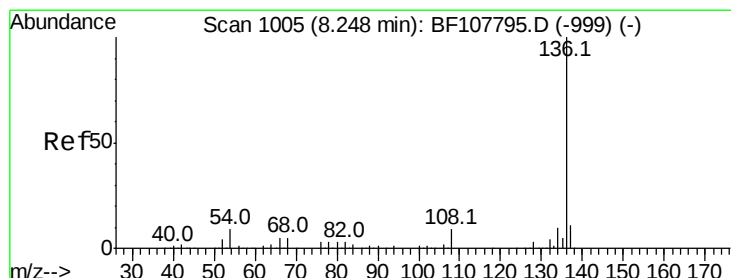
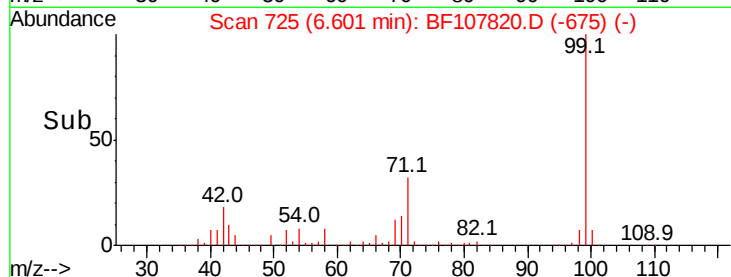
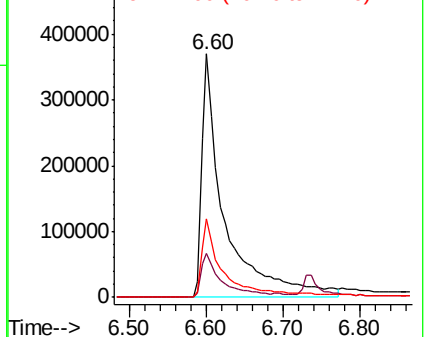
99 100

42 18.2 14.5 21.7

71 32.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Tgt Ion: 136 Resp: 809298

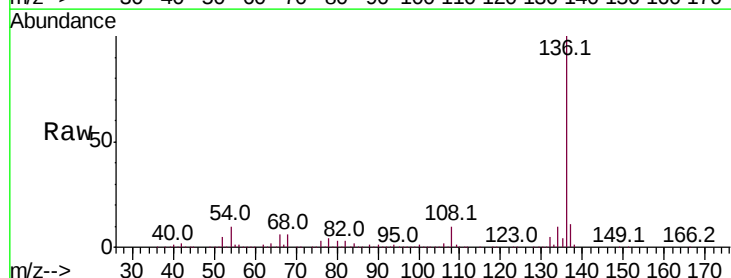
Ion Ratio Lower Upper

136 100

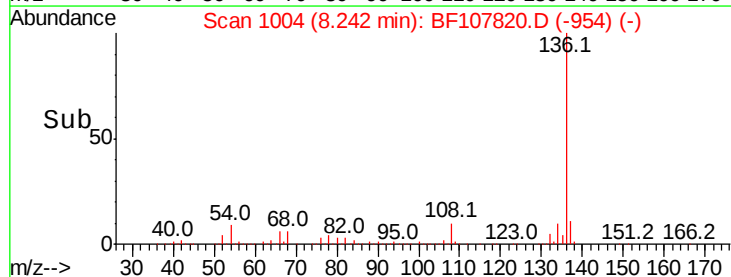
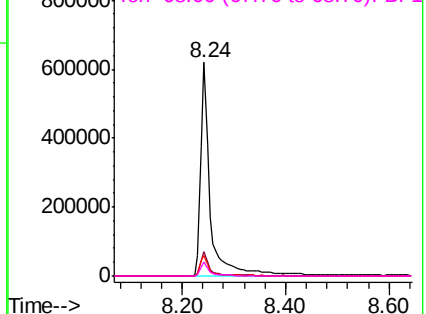
137 11.1 8.9 13.3

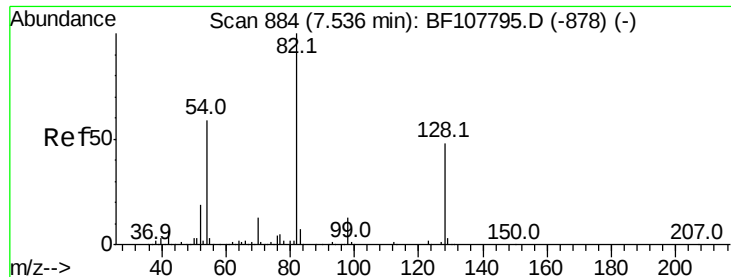
54 9.7 6.6 9.8

68 6.5 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

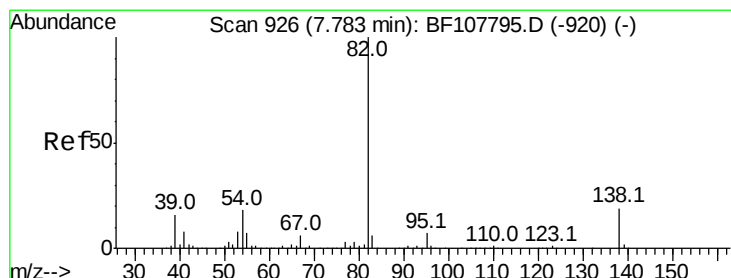
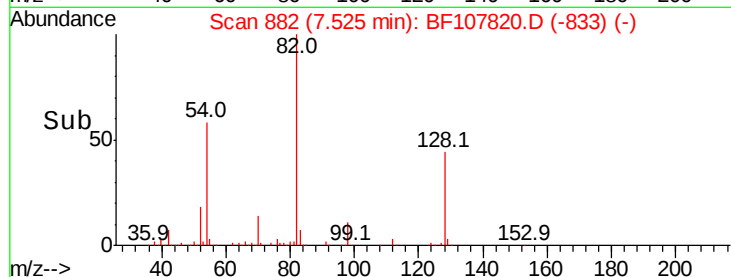
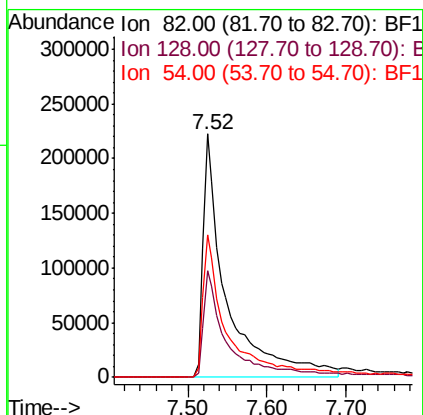
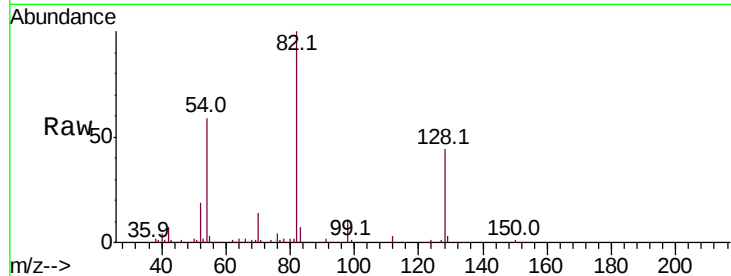




#23
Nitrobenzene-d5
Concen: 32.842 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

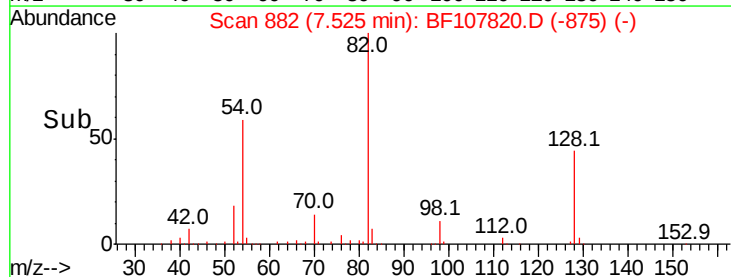
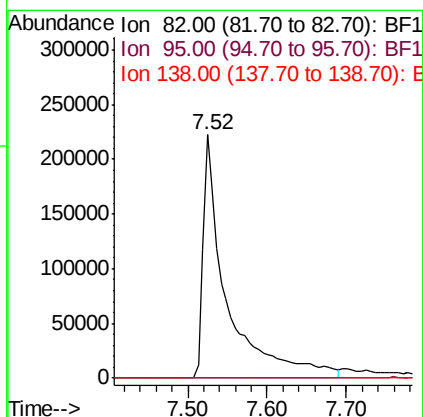
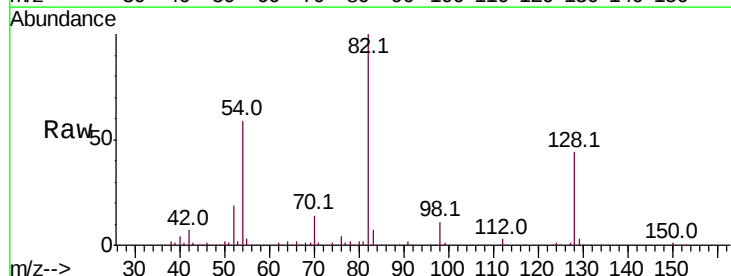
Instrument :
BNA_F
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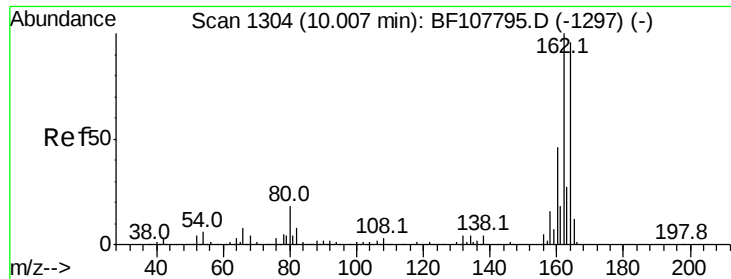
Tot Ion: 82 Resp: 461360
Ion Ratio Lower Upper
82 100
128 43.9 36.1 54.1
54 58.7 41.4 62.2



#25
Isophorone
Concen: 20.008 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.26 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion: 82 Resp: 461360
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#

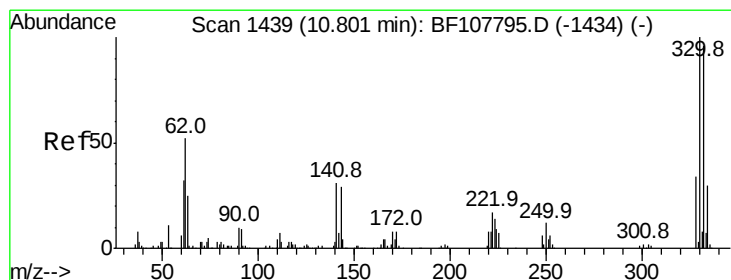
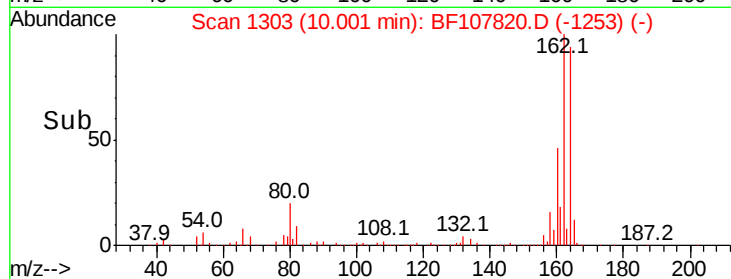
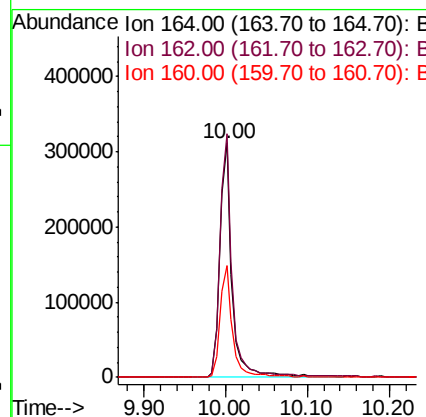
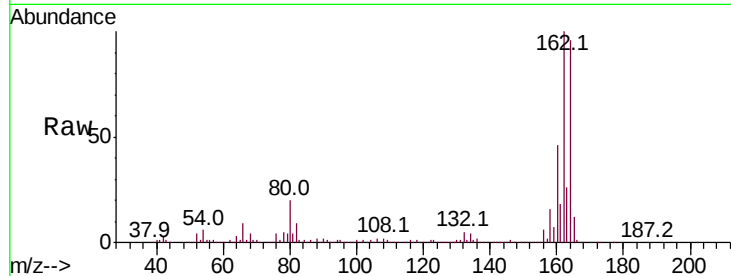




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

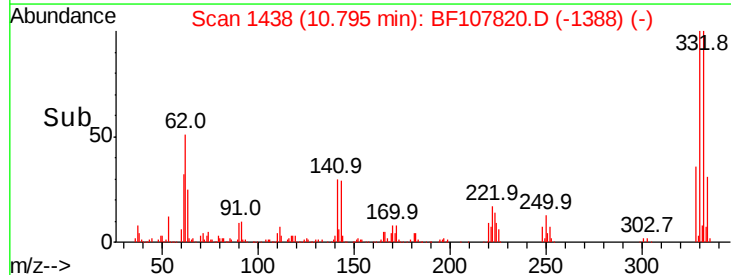
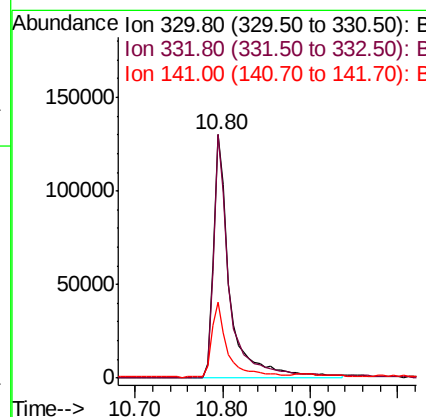
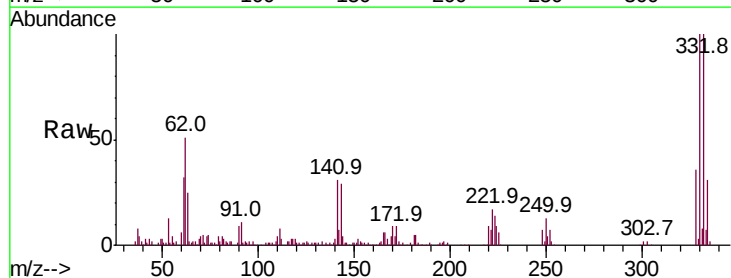
Instrument :
BNA_F
ClientSampleId :

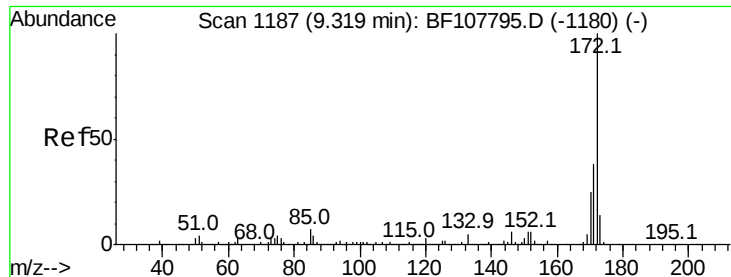
Tot Ion:164 Resp: 326250
Ion Ratio Lower Upper
164 100
162 103.8 86.1 129.1
160 47.4 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 38.572 ng
RT: 10.80 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:330 Resp: 170992
Ion Ratio Lower Upper
330 100
332 97.9 77.0 115.6
141 28.6 29.9 44.9#

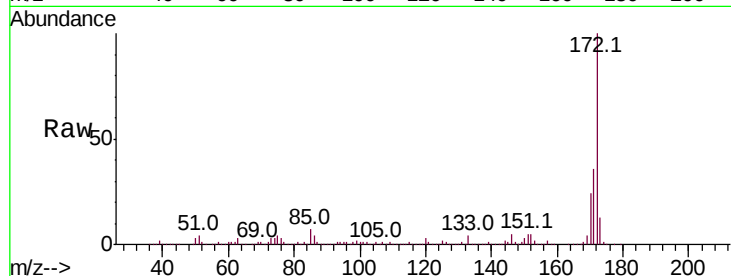




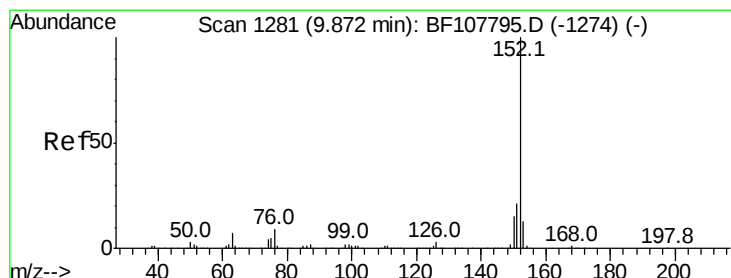
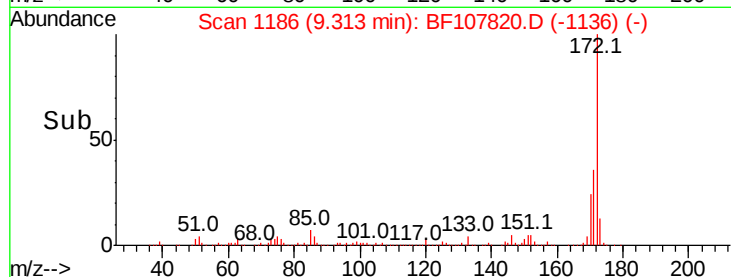
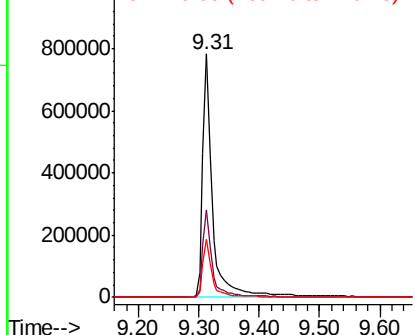
#44
2-Fluorobiphenyl
Concen: 38.986 ng
RT: 9.31 min Scan# 1186
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 912752
Ion Ratio Lower Upper
172 100
171 35.8 29.7 44.5
170 24.1 19.6 29.4

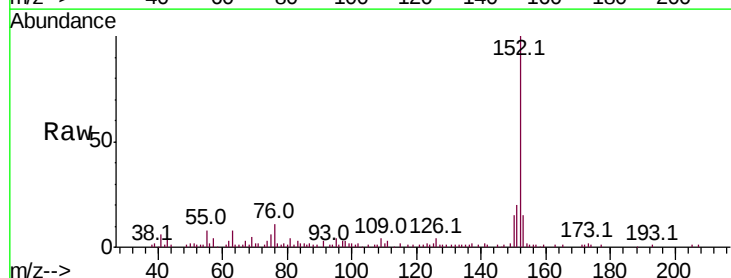


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

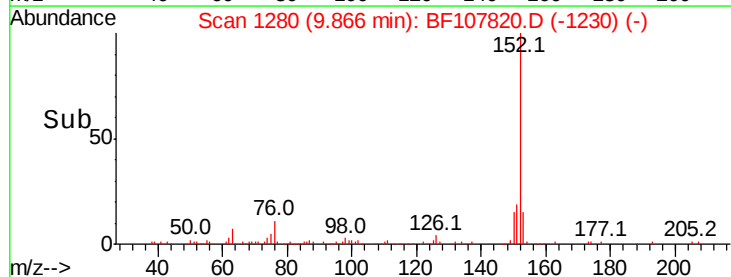
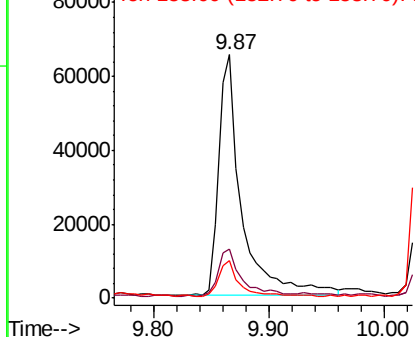


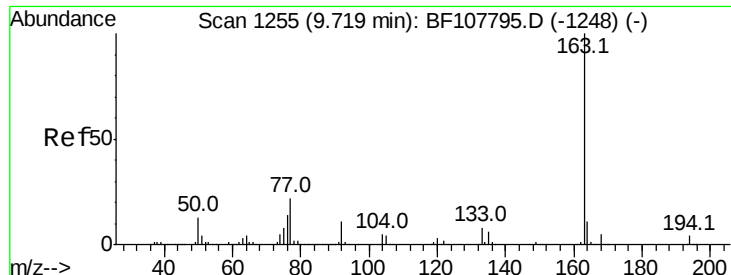
#48
Acenaphthylene
Concen: 2.589 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:152 Resp: 89862
Ion Ratio Lower Upper
152 100
151 20.0 16.3 24.5
153 15.2 10.7 16.1



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

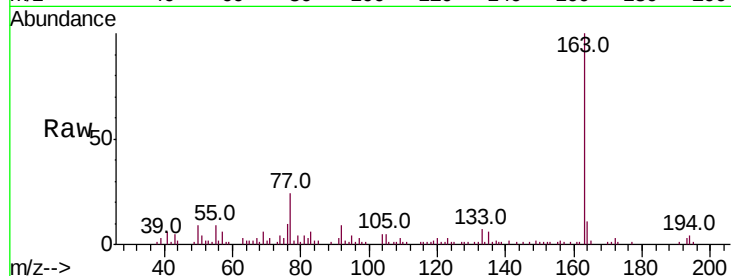




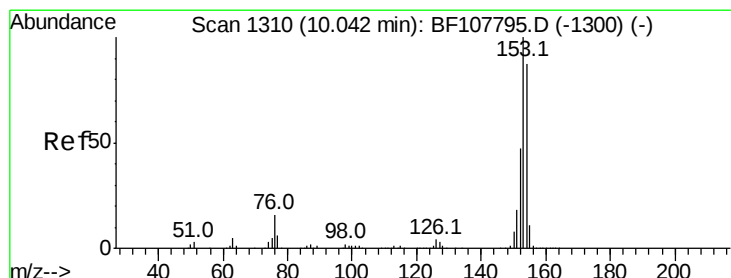
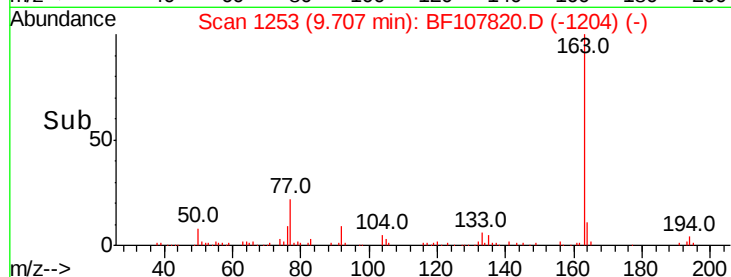
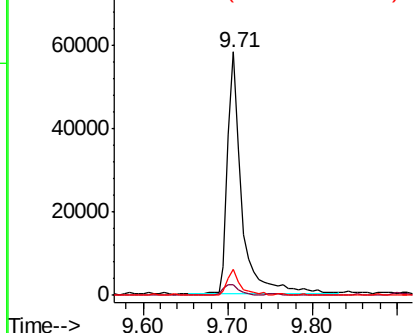
#49
Dimethylphthalate
Concen: 2.753 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 67463
Ion Ratio Lower Upper
163 100
194 4.1 2.7 4.1#
164 10.5 8.2 12.2

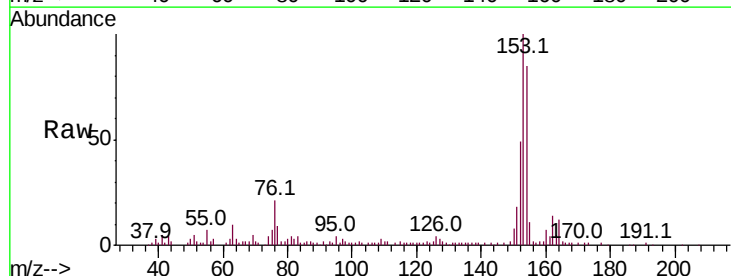


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

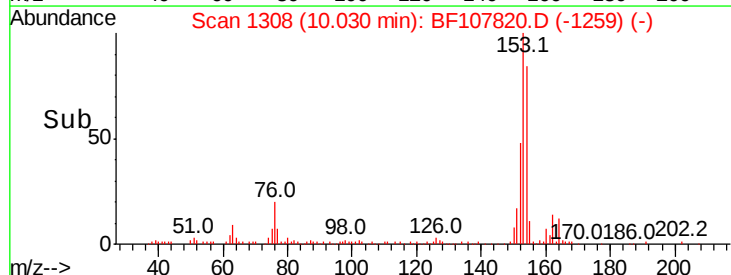
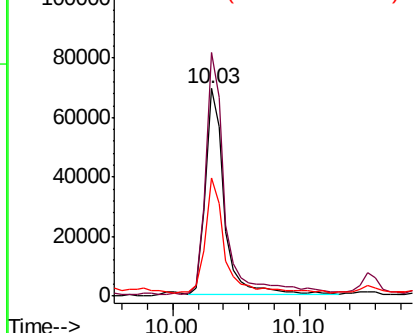


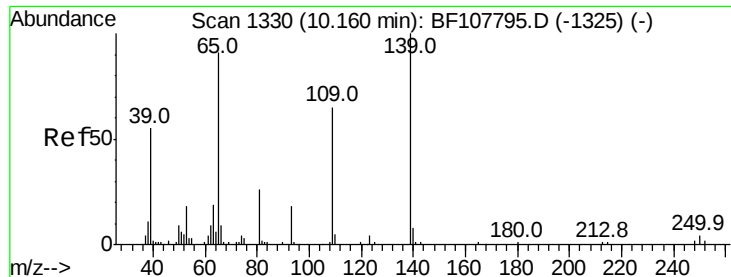
#51
Acenaphthene
Concen: 3.549 ng
RT: 10.03 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:154 Resp: 71556
Ion Ratio Lower Upper
154 100
153 117.5 91.2 136.8
152 57.3 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

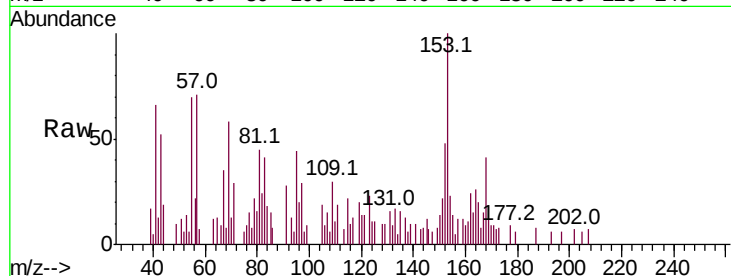




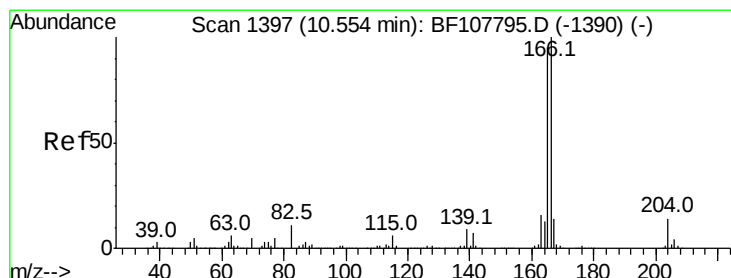
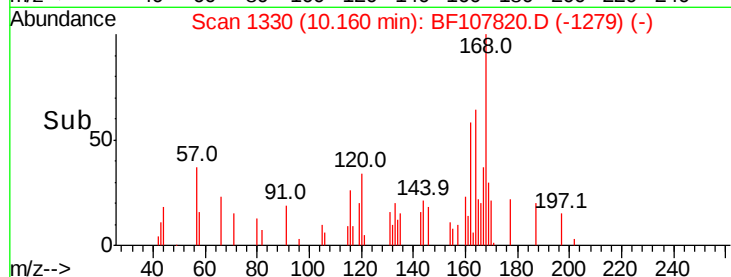
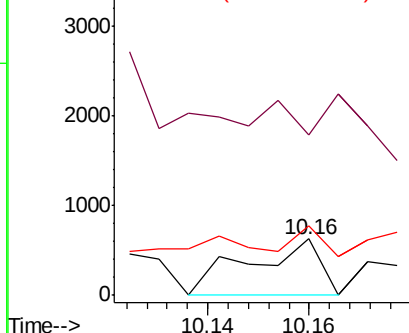
#55
4-Nitrophenol
Concen: 9.484 ng
RT: 10.16 min Scan# 1330
Delta R.T. 0.00 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	283.8	48.4	88.4#
65	123.4	72.6	112.6#

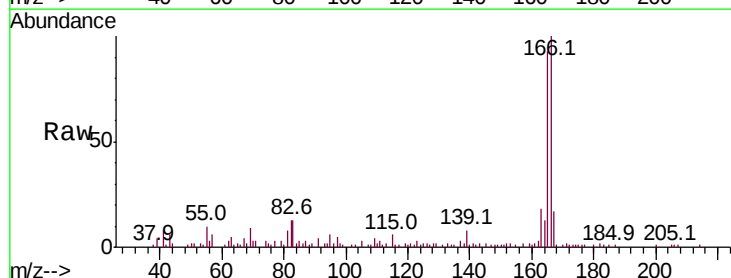


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

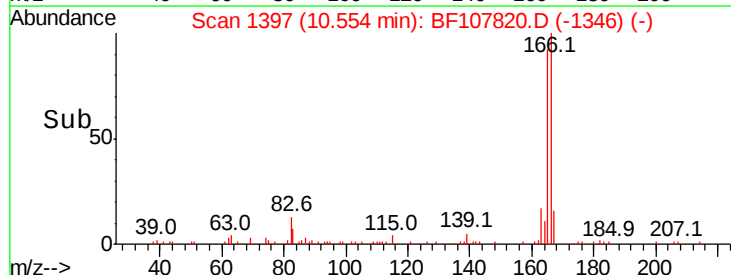
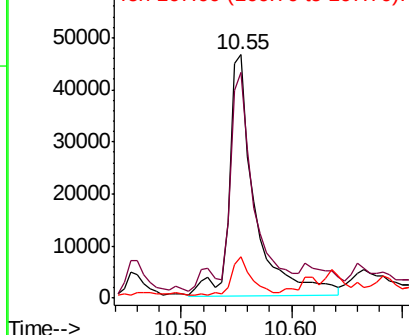


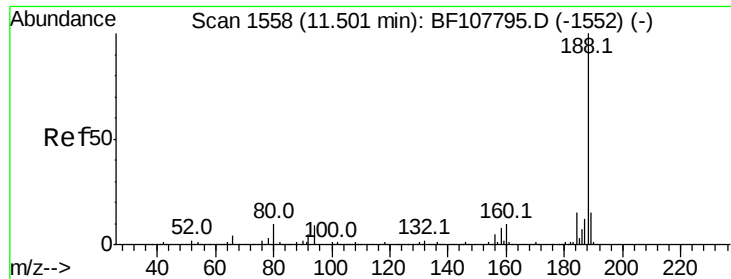
#57
Fluorene
Concen: 3.098 ng
RT: 10.55 min Scan# 1397
Delta R.T. -0.00 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.8	79.8	119.8
167	16.8	10.6	16.0#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

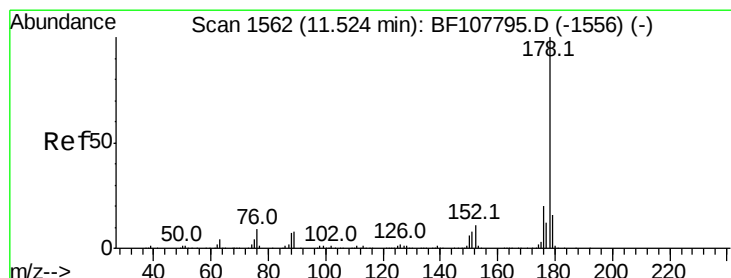
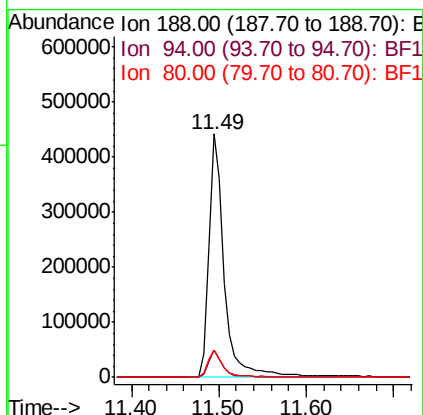
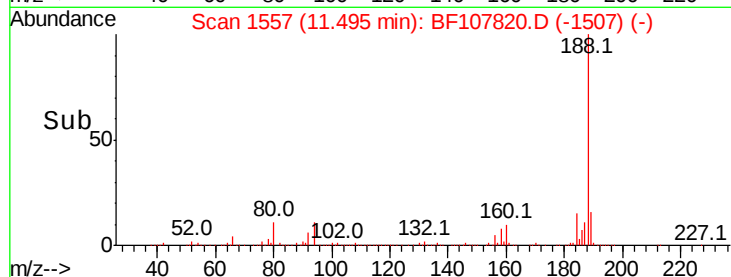
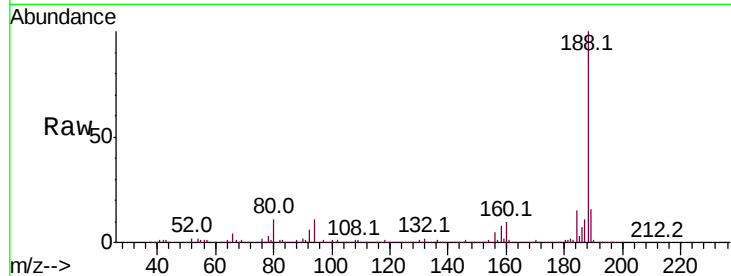




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

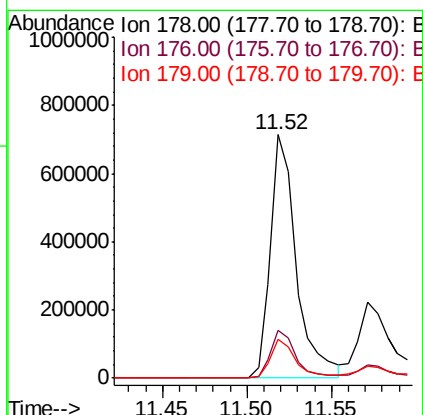
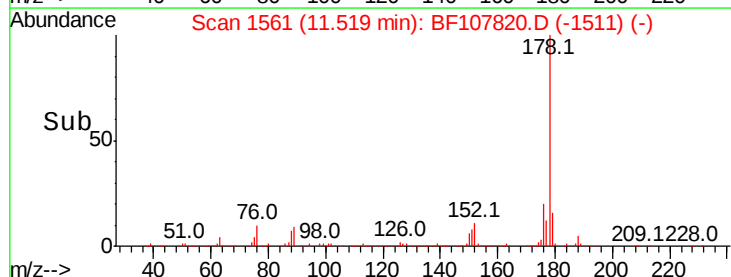
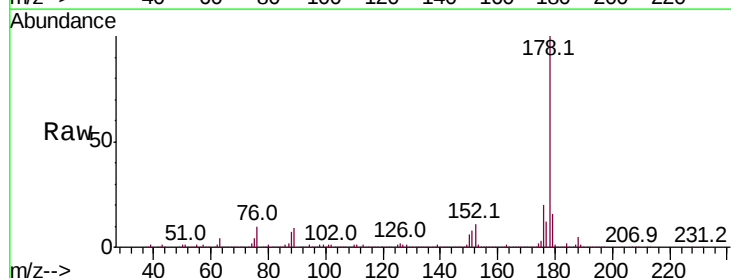
Instrument :
BNA_F
ClientSampled :

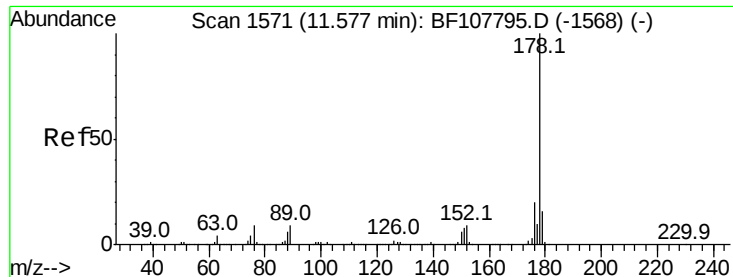
Tot Ion:188 Resp: 542532
Ion Ratio Lower Upper
188 100
94 11.3 8.5 12.7
80 11.3 9.2 13.8



#70
Phenanthrene
Concen: 29.475 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:178 Resp: 759314
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 16.0 13.0 19.6



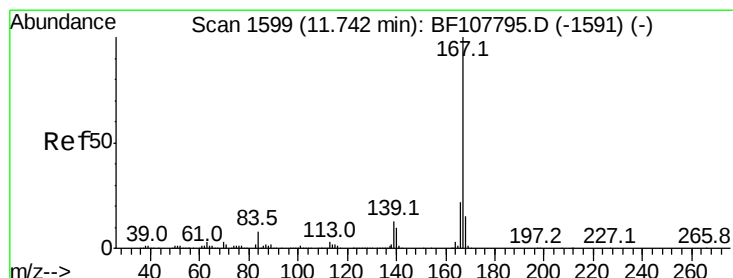
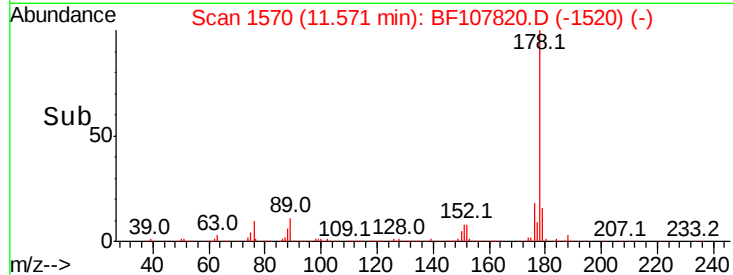
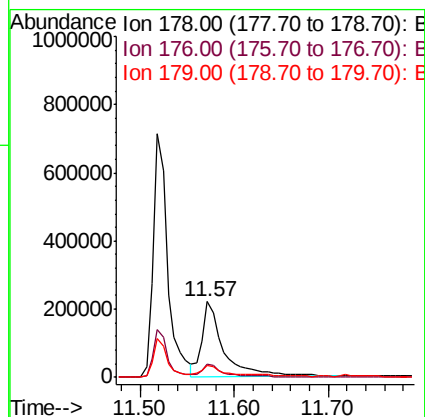
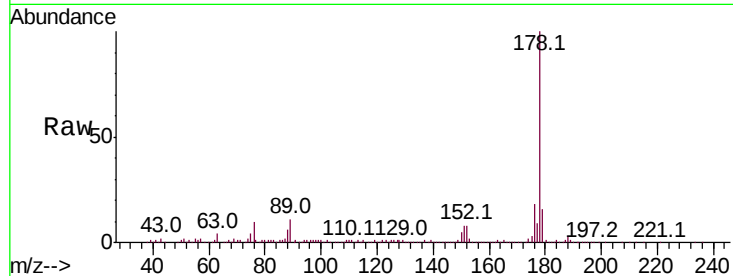


#71
 Anthracene
 Concen: 11.542 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 342962

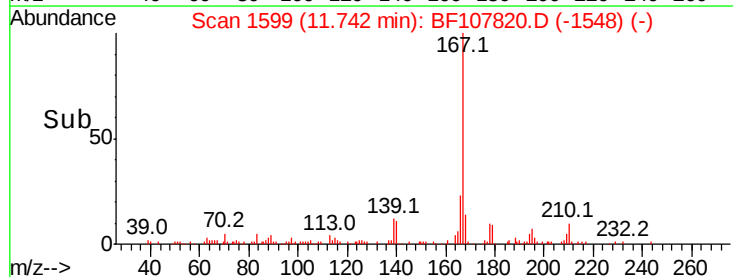
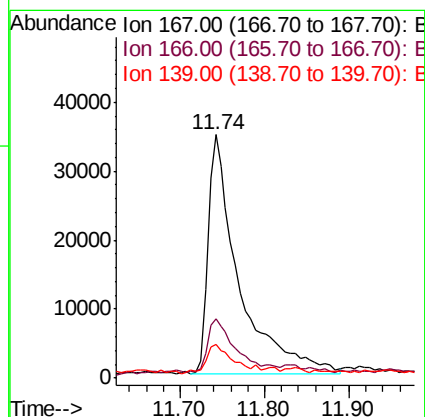
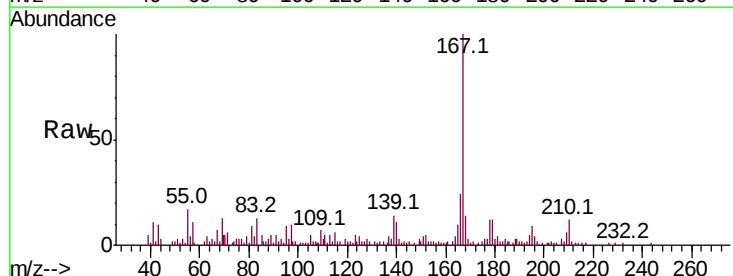
Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.4	23.2
179	16.4	12.6	19.0

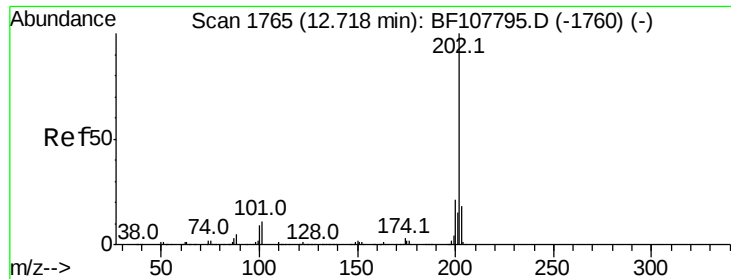


#72
 Carbazole
 Concen: 3.019 ng
 RT: 11.74 min Scan# 1599
 Delta R.T. -0.00 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Tgt Ion:167 Resp: 88639

Ion	Ratio	Lower	Upper
167	100		
166	24.4	17.6	26.4
139	14.1	10.9	16.3





#74

Fluoranthene

Concen: 54.850 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Instrument :

BNA_F

ClientSampleId :

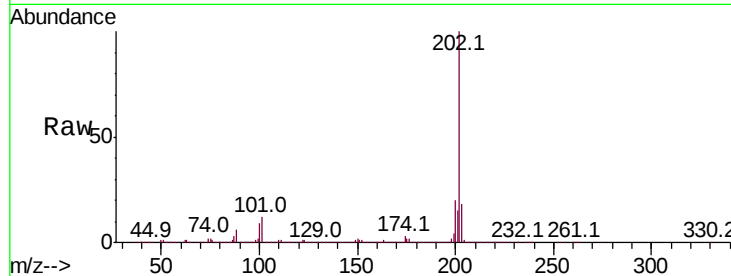
Tot Ion:202 Resp: 1660000

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	34.1
203	18.0	0.0	38.1

202 100

101 12.4 0.0 34.1

203 18.0 0.0 38.1

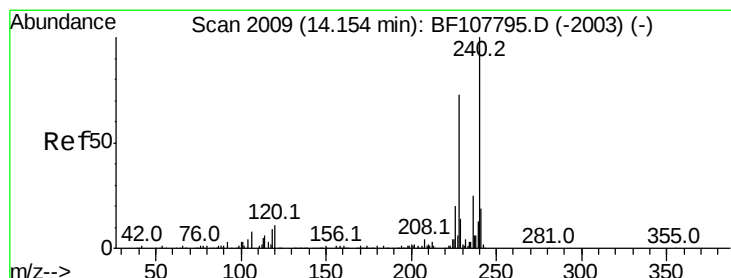
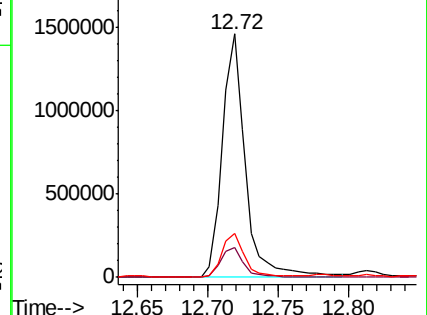
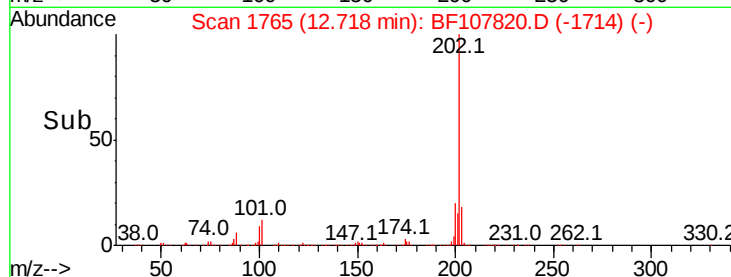


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

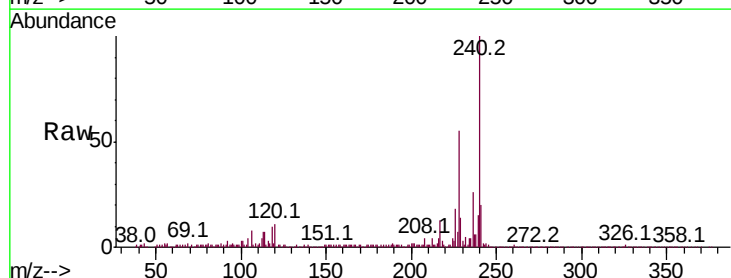
Tgt Ion:240 Resp: 491748

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.5	14.3
236	25.7	20.7	31.1

240 100

120 11.0 9.5 14.3

236 25.7 20.7 31.1

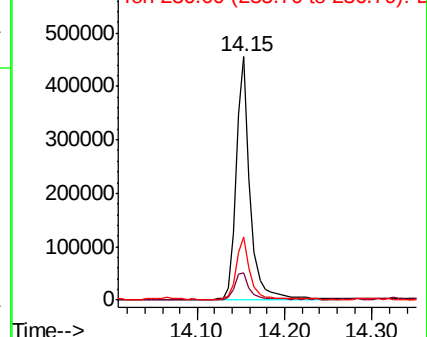
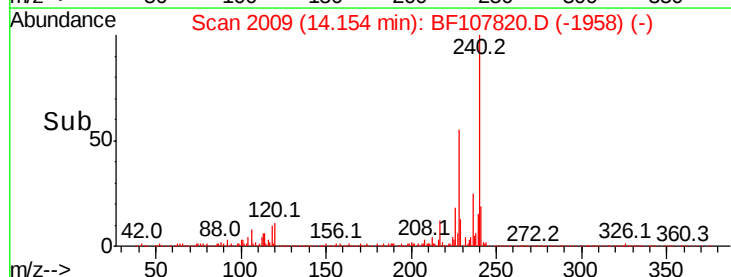


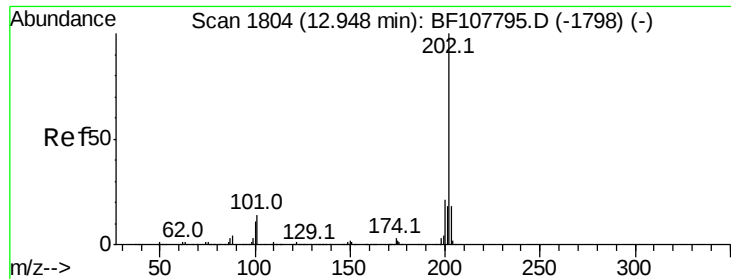
Abundance

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

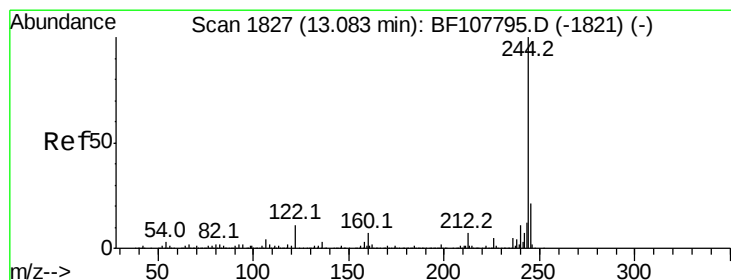
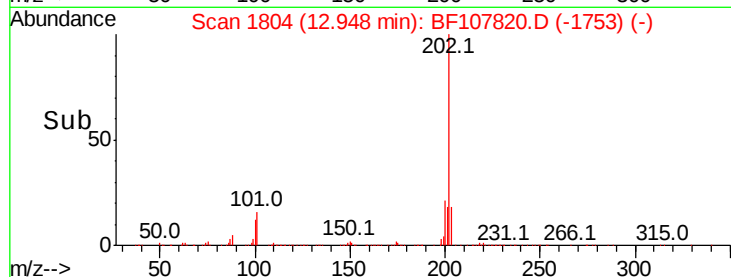
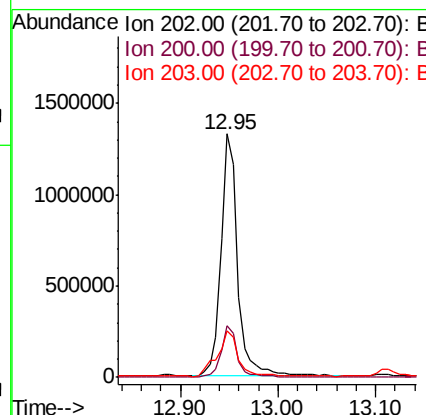
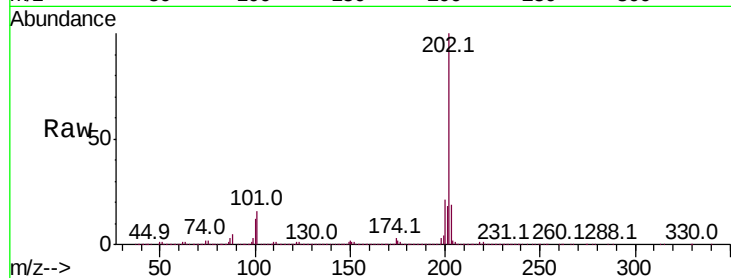




#77
Pvrene
Concen: 44.776 ng
RT: 12.95 min Scan# 1804
Delta R.T. -0.00 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

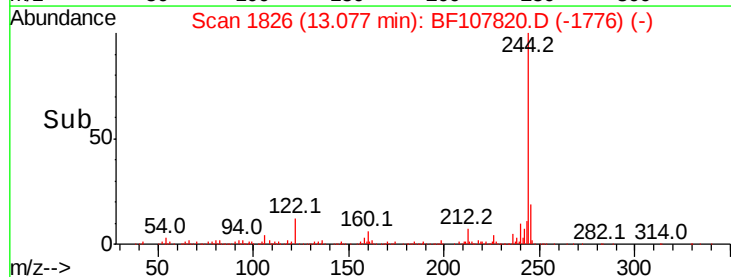
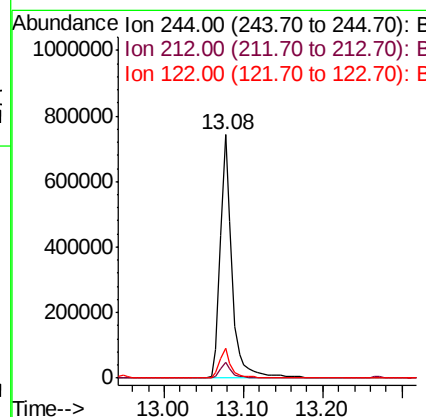
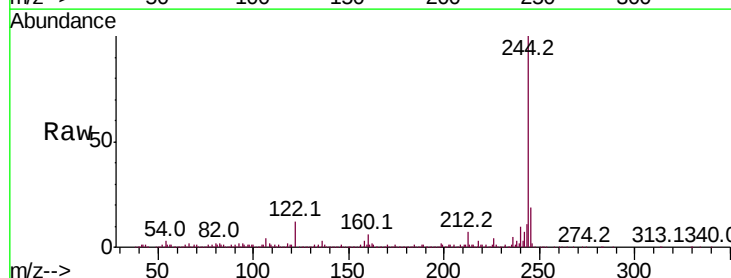
Instrument :
BNA_F
ClientSampleId :

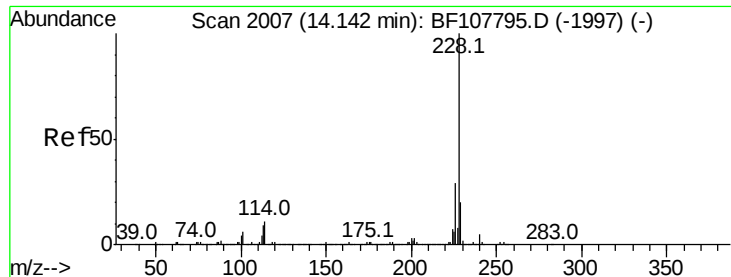
Tot Ion:202 Resp: 1585521
Ion Ratio Lower Upper
202 100
200 21.3 17.4 26.2
203 19.0 14.3 21.5



#78
Terphenyl-d14
Concen: 33.810 ng
RT: 13.08 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:244 Resp: 766721
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.0
122 12.2 11.0 16.4

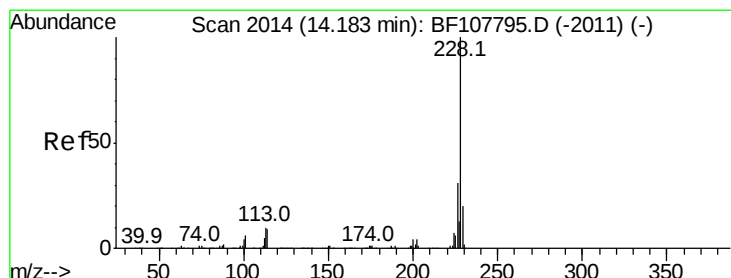
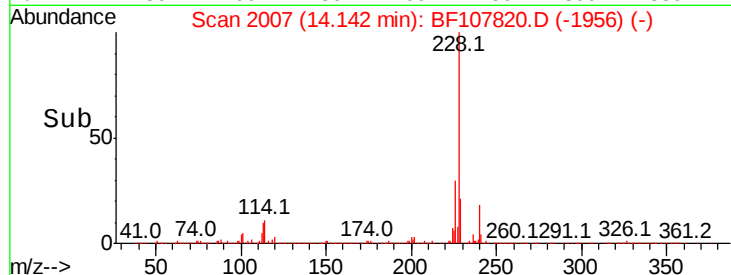
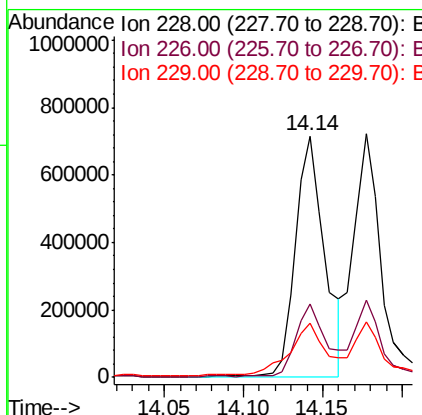
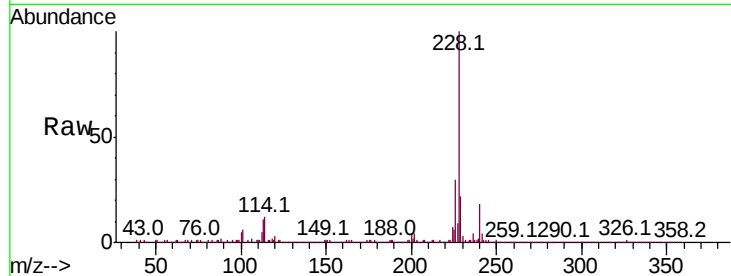




#80
Benzo(a)anthracene
Concen: 32.688 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.00 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

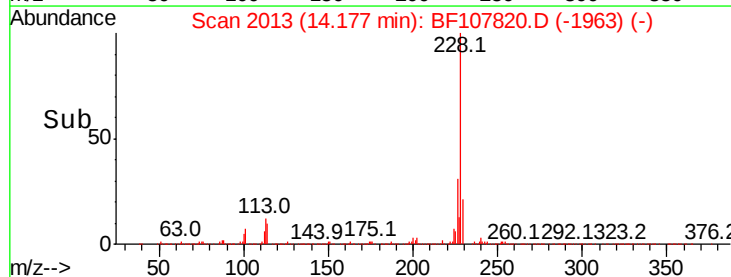
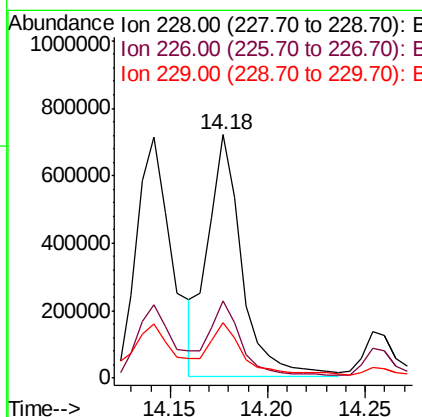
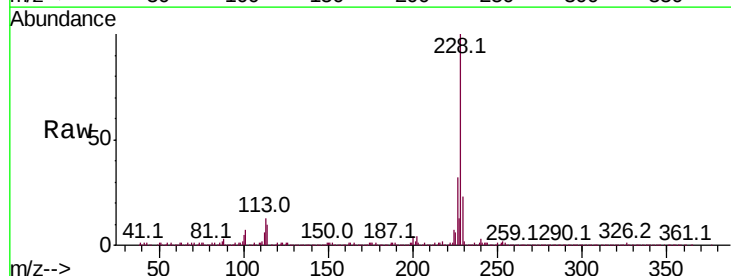
Instrument :
BNA_F
ClientSampled :

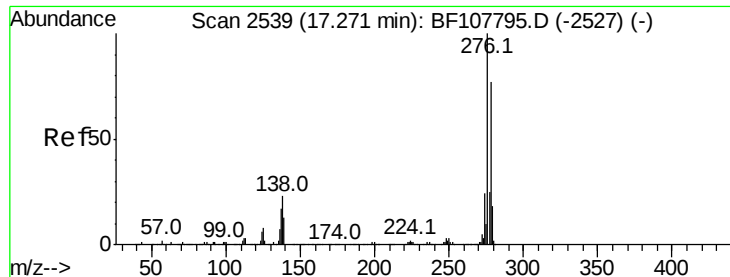
Tot Ion:228 Resp: 910538
Ion Ratio Lower Upper
228 100
226 30.2 22.6 33.8
229 22.3 15.8 23.6



#82
Chrysene
Concen: 28.946 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF107820.D
Acq: 31 Jul 2018 00:20

Tgt Ion:228 Resp: 869694
Ion Ratio Lower Upper
228 100
226 31.8 25.0 37.6
229 22.5 16.2 24.4

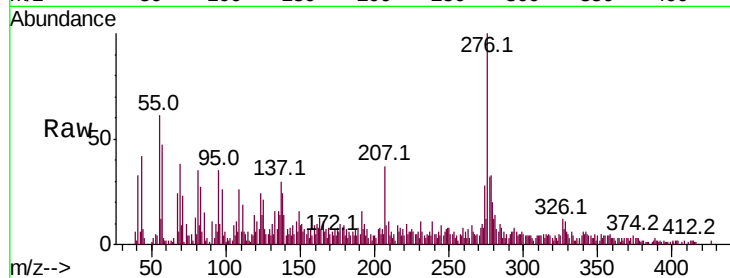




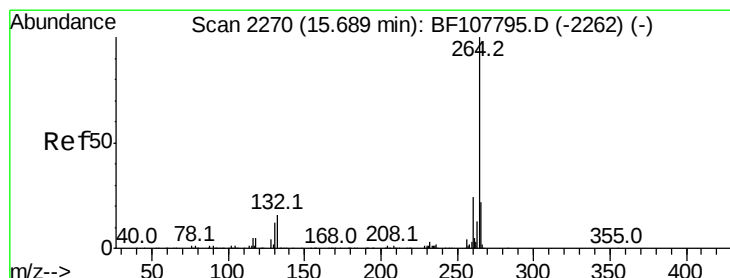
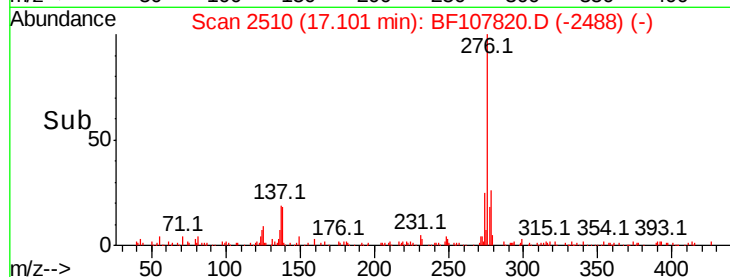
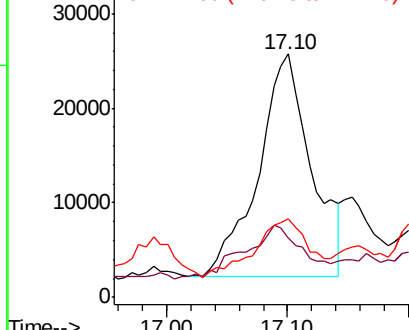
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.125 ng
 RT: 17.10 min Scan# 2510
 Delta R.T. -0.17 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 71423
 Ion Ratio Lower Upper
 276 100
 138 26.9 25.0 37.6
 277 26.3 20.1 30.1

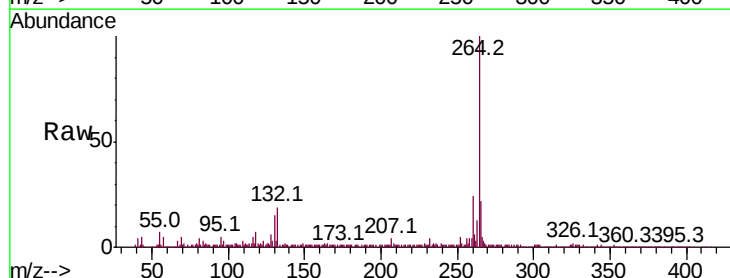


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

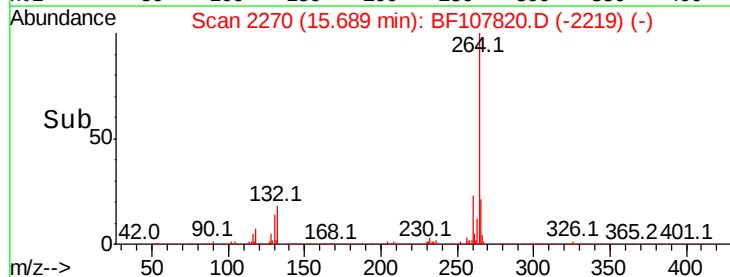
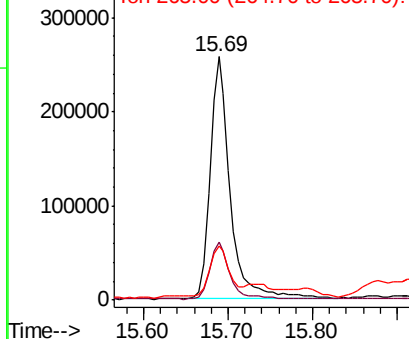


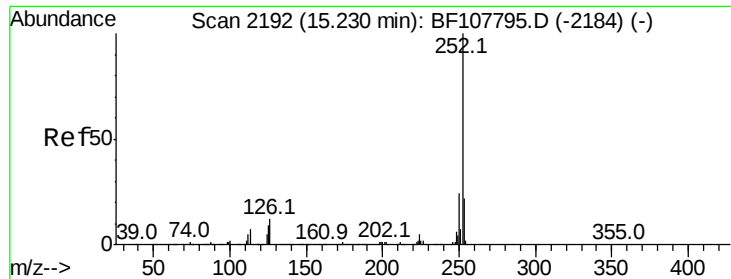
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Tgt Ion:264 Resp: 428550
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.2 28.8
 265 22.2 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: 63.471 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Instrument :

BNA_F

ClientSampleId :

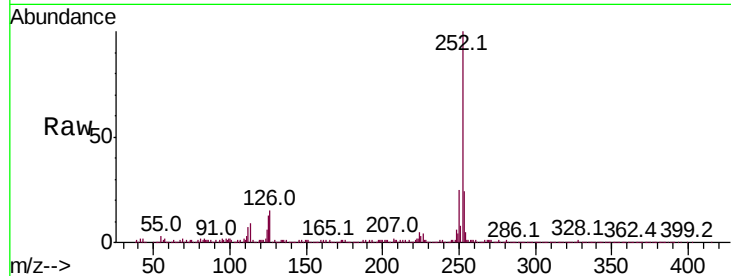
Tot Ion:252 Resp: 1341516

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.6

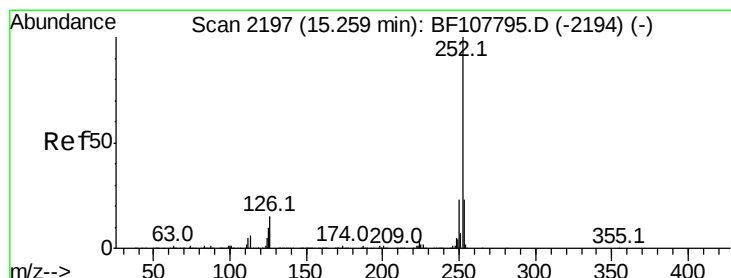
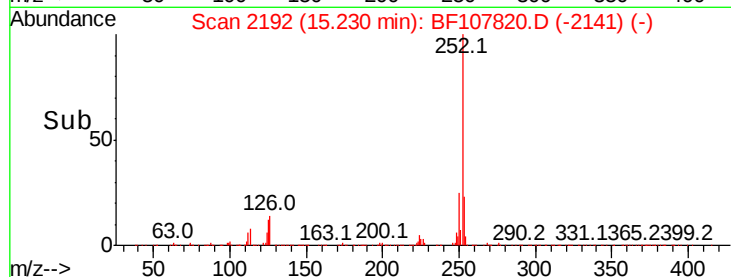
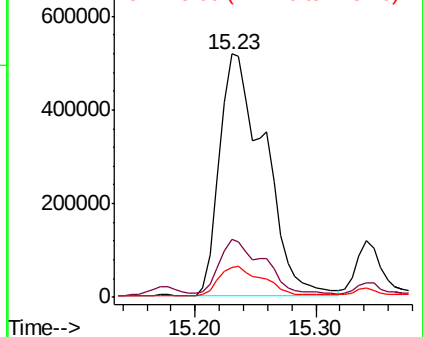
125 12.5 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 51.697 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.03 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

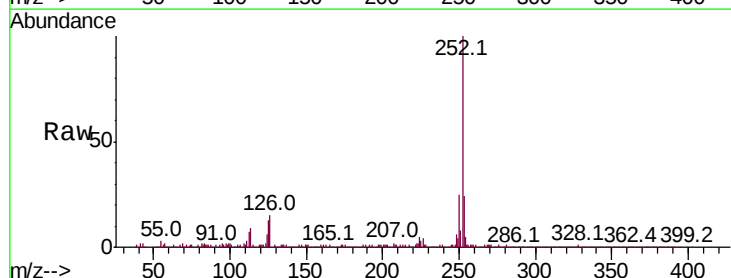
Tgt Ion:252 Resp: 1341516

Ion Ratio Lower Upper

252 100

253 23.7 17.9 26.9

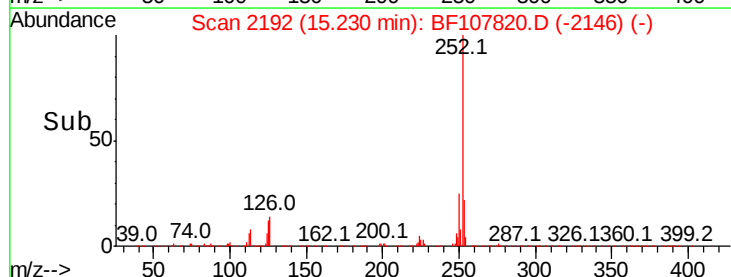
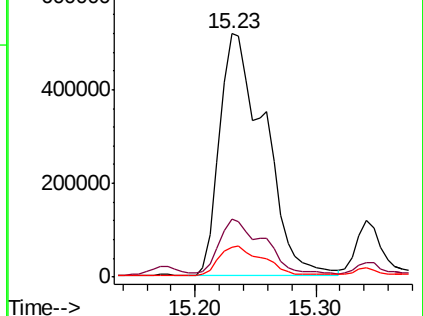
125 12.5 10.2 15.2

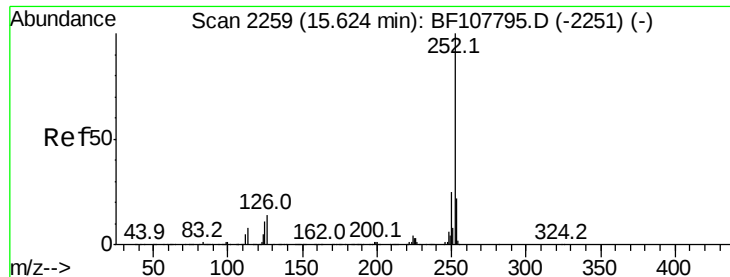


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 35.203 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.00 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

Instrument :

BNA_F

ClientSampleId :

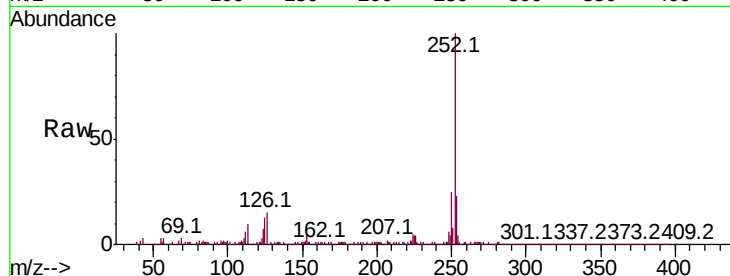
Tot Ion:252 Resp: 768114

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

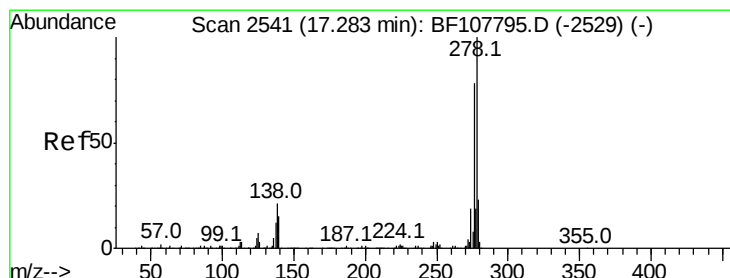
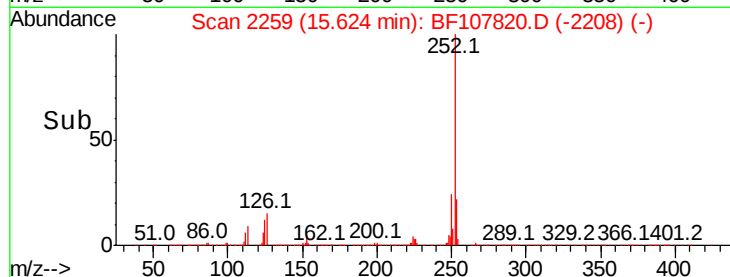
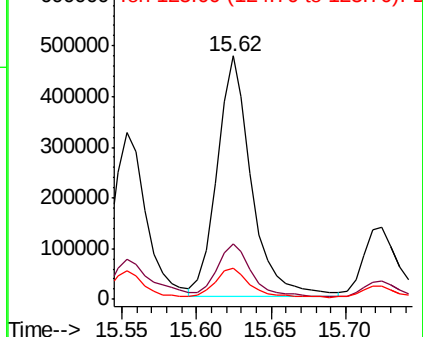
125 12.9 9.8 14.6



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: 3.710 ng

RT: 17.28 min Scan# 2540

Delta R.T. -0.01 min

Lab File: BF107820.D

Acq: 31 Jul 2018 00:20

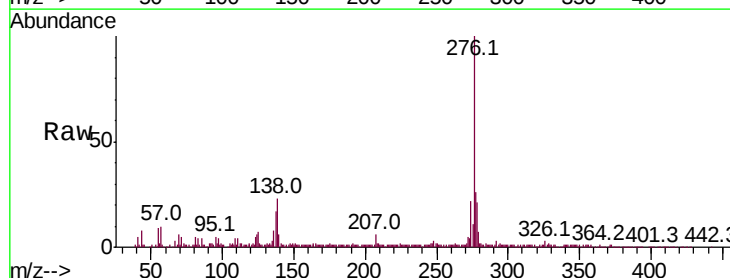
Tgt Ion:278 Resp: 70605

Ion Ratio Lower Upper

278 100

139 25.8 15.9 23.9#

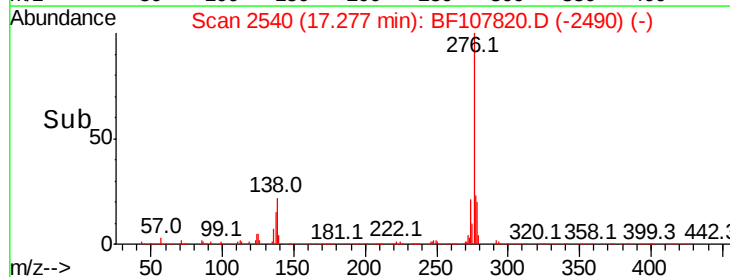
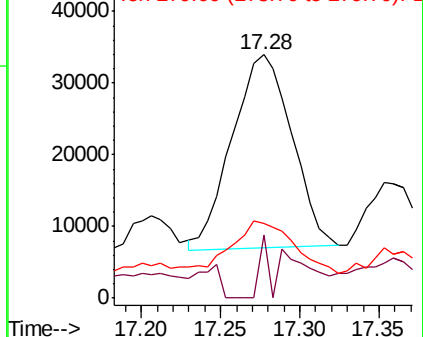
279 30.9 19.0 28.4#

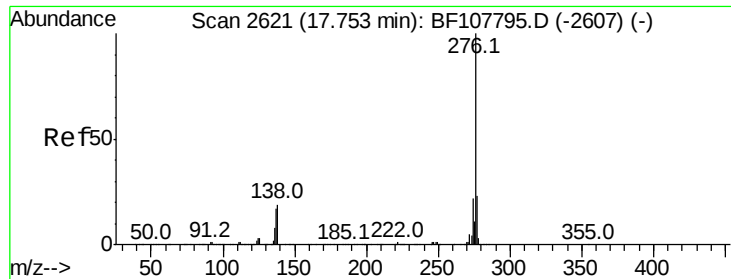


Abundance Ion 278.00 (277.70 to 278.70): E

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: 22.837 ng
 RT: 17.75 min Scan# 2621
 Delta R.T. -0.00 min
 Lab File: BF107820.D
 Acq: 31 Jul 2018 00:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	23.4	17.9	26.9	
138	23.7	21.8	32.8	

