

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107715.D
 Acq On : 26 Jul 2018 22:15
 Operator : JU/SJ
 Sample : J4109-06 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-11(8-10)

Quant Time: Jul 27 01:15:09 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	6.96	152	165616	20.00	ng	-0.02
21) Naphthalene-d8	8.24	136	746810	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	326769	20.00	ng	-0.02
63) Phenanthrene-d10	11.50	188	550687	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	424022	20.00	ng	-0.02
86) Perylene-d12	15.68	264	481181	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.61	112	102219	9.92	ng	0.00
7) Phenol-d6	6.60	99	231393	18.71	ng	-0.01
23) Nitrobenzene-d5	7.53	82	136276	12.31	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	66702	17.95	ng	-0.02
44) 2-Fluorobiphenyl	9.31	172	289863	8.75	ng	-0.02
78) Terphenyl-d14	13.08	244	217726	13.15	ng	-0.02

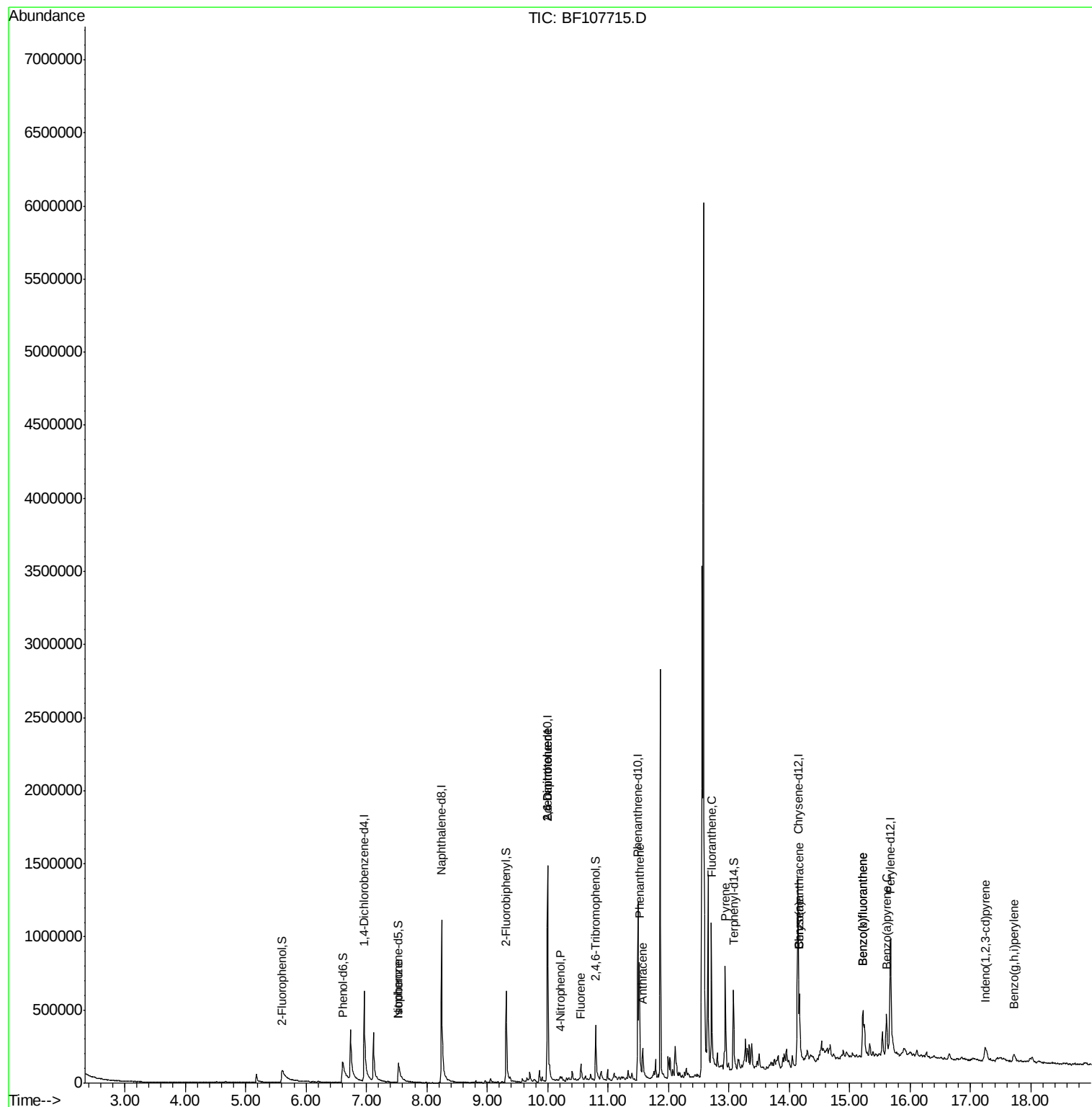
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.61	77	111	Below Cal	#	1
25) Isophorone	7.53	82	136276	5.768	ng	64
50) 2,6-Dinitrotoluene	10.00	165	42789	8.751	ng	26
55) 4-Nitrophenol	10.21	139	8923	2.004	ng	9
56) 2,4-Dinitrotoluene	10.00	165	43468	7.365	ng	24
57) Fluorene	10.55	166	49933	2.322	ng	95
70) Phenanthrene	11.52	178	317062	11.815	ng	98
71) Anthracene	11.57	178	130277	4.822	ng	97
73) Di-n-butylphthalate	12.04	149	1730	Below Cal	#	40
74) Fluoranthene	12.71	202	448204	15.565	ng	97
77) Pyrene	12.94	202	359368	12.390	ng	96
80) Benzo(a)anthracene	14.17	228	175298	7.055	ng	96
81) 3,3'-Dichlorobenzidine	14.08	252	115	Below Cal	#	27
82) Chrysene	14.17	228	175298	7.344	ng	98
85) Indeno(1,2,3-cd)pyrene	17.24	276	77256	3.819	ng	87
87) Benzo(b)fluoranthene	15.22	252	304964	11.580	ng	99
88) Benzo(k)fluoranthene	15.22	252	304964	11.820	ng	99
89) Benzo(a)pyrene	15.61	252	166122	6.896	ng	95
91) Benzo(g,h,i)perylene	17.72	276	57923	2.820	ng	91

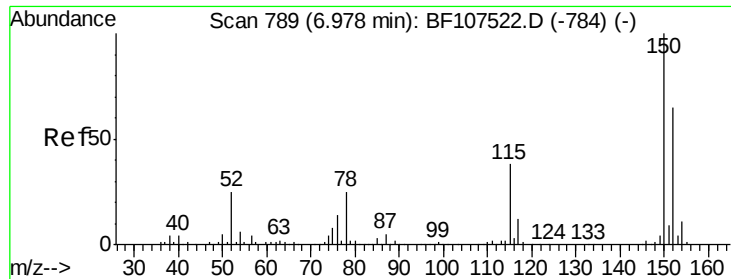
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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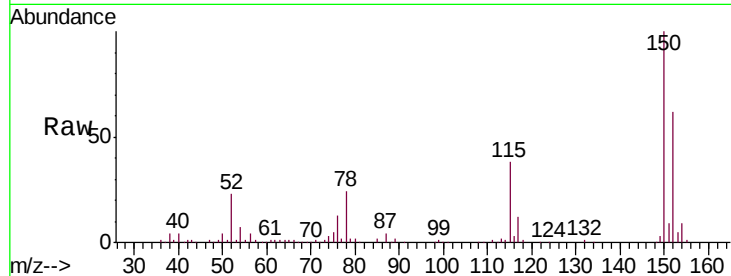


#1

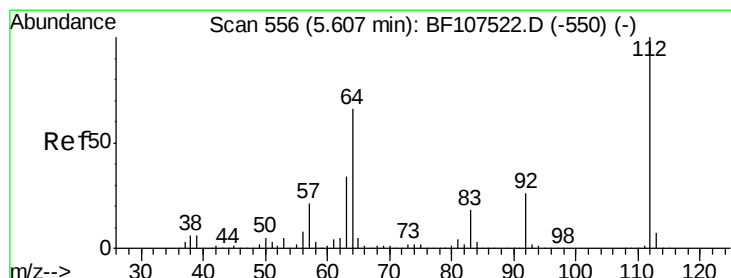
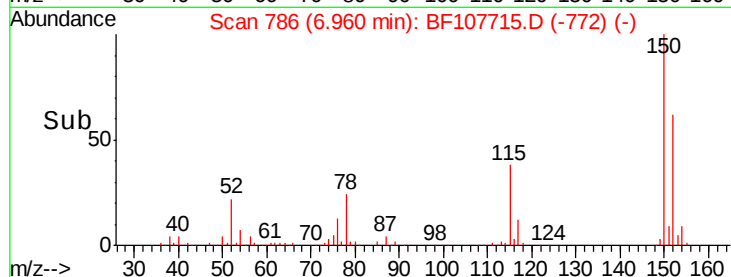
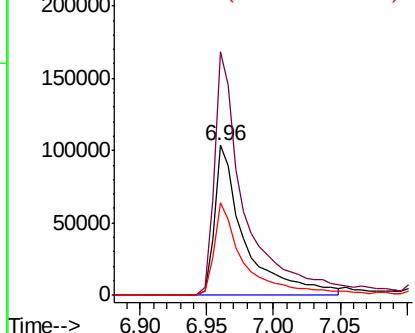
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Instrument :
BNA_F
ClientSampleId :
SB-11(8-10)

Tgt Ion:152 Resp: 165616
Ion Ratio Lower Upper
152 100
150 162.3 124.6 186.8
115 61.9 50.1 75.1



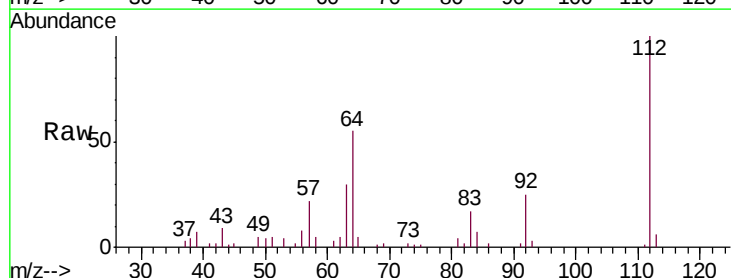
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



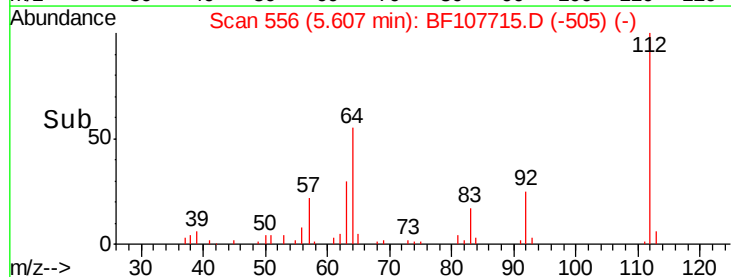
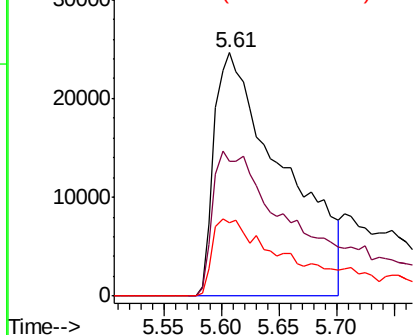
#5

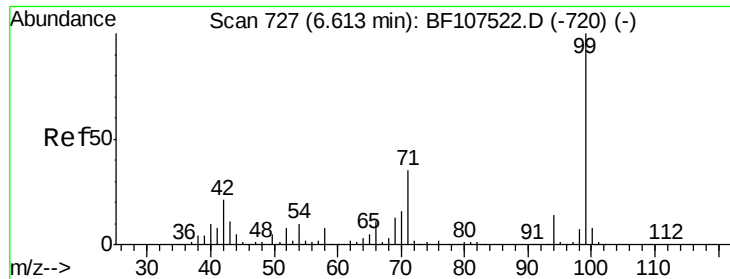
2-Fluorophenol
Concen: 9.923 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion:112 Resp: 102219
Ion Ratio Lower Upper
112 100
64 55.4 47.9 71.9
63 30.3 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 18.708 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

Instrument :

BNA_F

ClientSampleId :

SB-11(8-10)

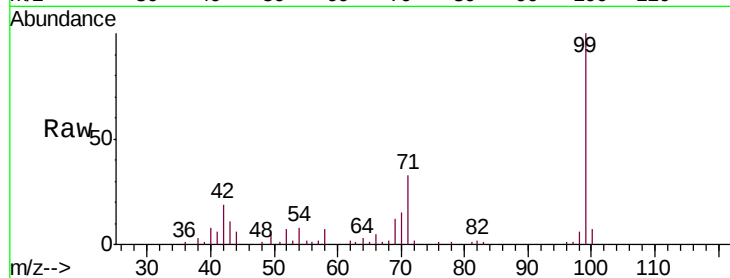
Tgt Ion: 99 Resp: 231393

Ion Ratio Lower Upper

99 100

42 18.8 14.5 21.7

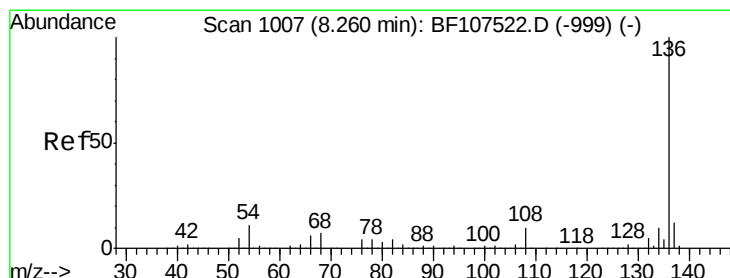
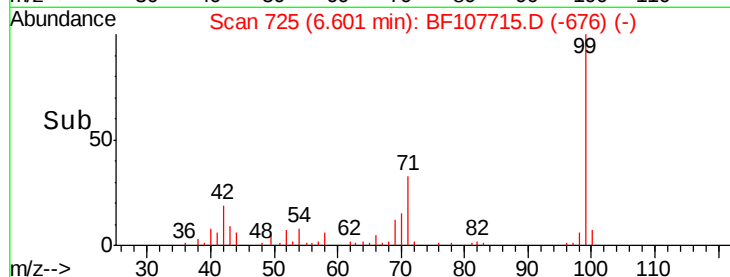
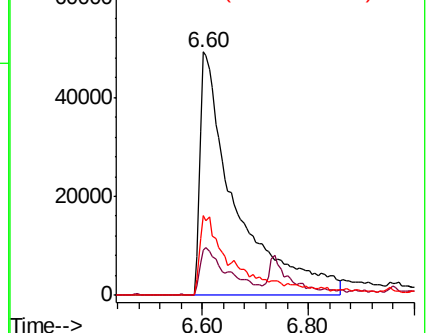
71 32.8 25.4 38.0



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. -0.02 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

Tgt Ion: 136 Resp: 746810

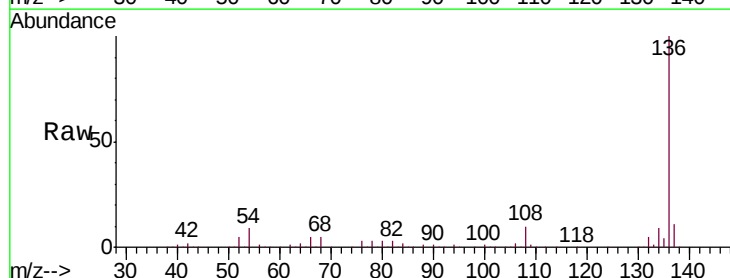
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 9.4 6.6 9.8

68 5.4 5.0 7.4

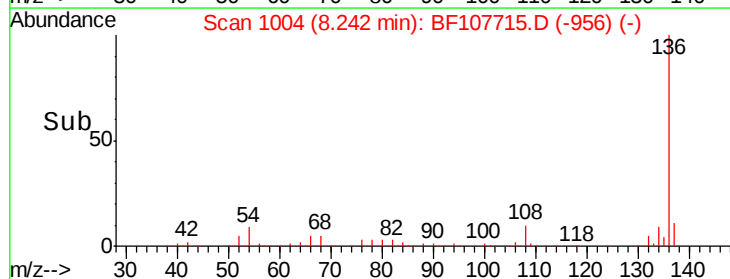
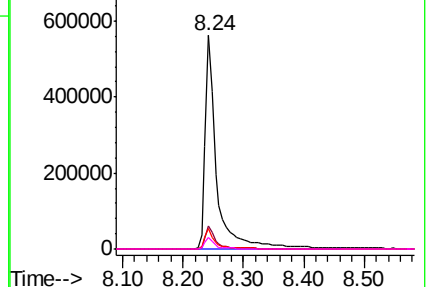


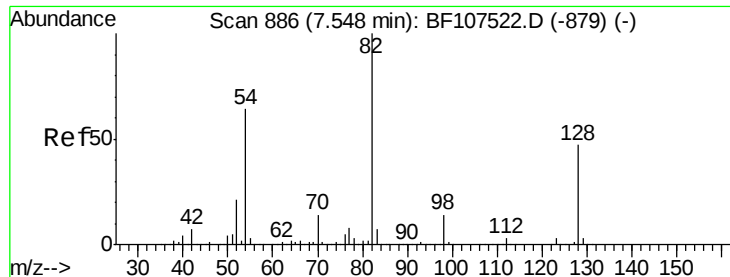
Abundance Ion 136.00 (135.70 to 136.70): E

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

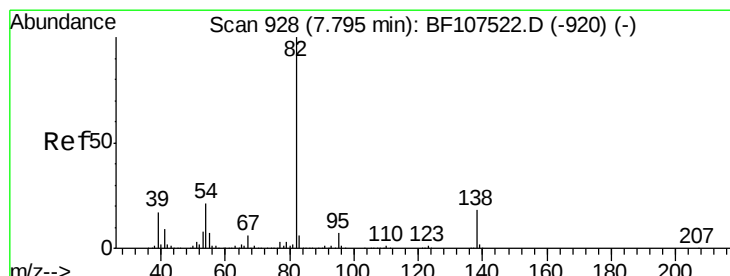
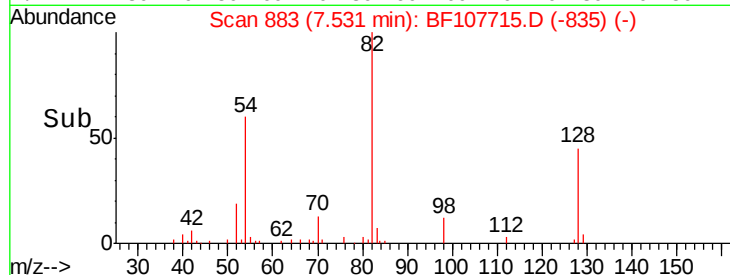
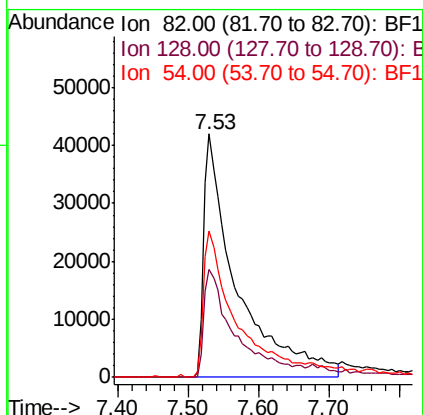
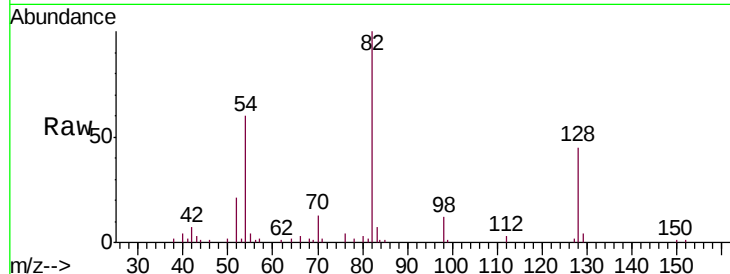




#23
Nitrobenzene-d5
Concen: 12.315 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

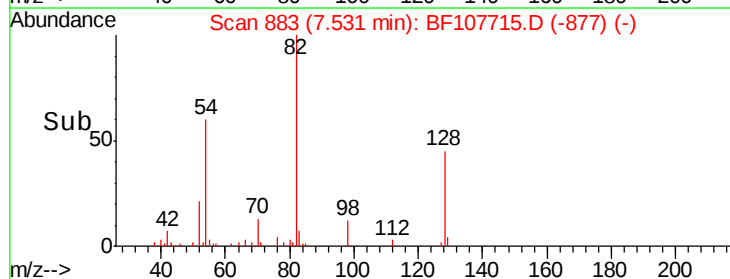
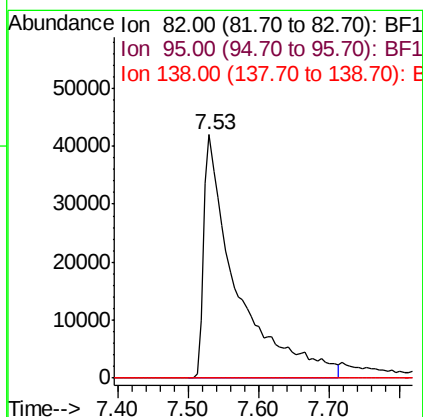
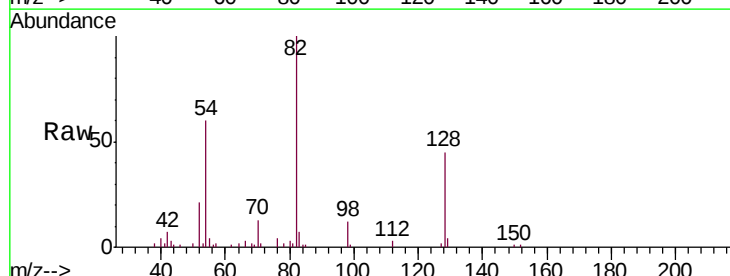
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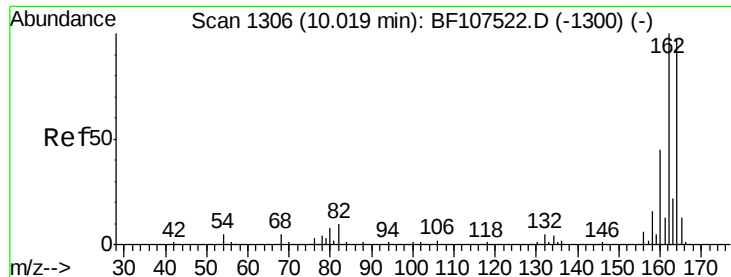
Tgt Ion: 82 Resp: 136276
Ion Ratio Lower Upper
82 100
128 44.6 36.1 54.1
54 60.0 41.4 62.2



#25
Isophorone
Concen: 5.768 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.26 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion: 82 Resp: 136276
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#

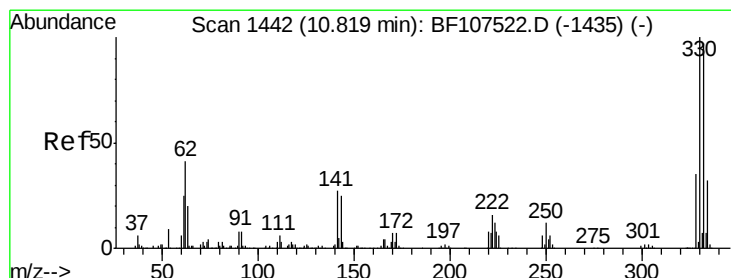
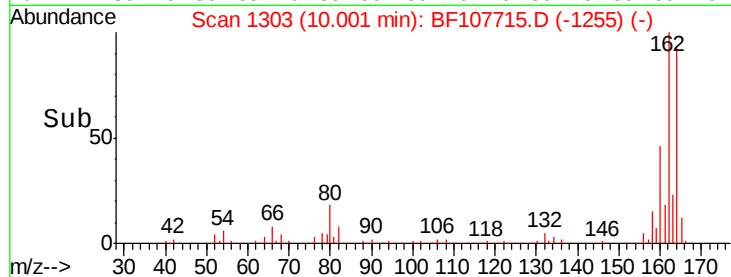
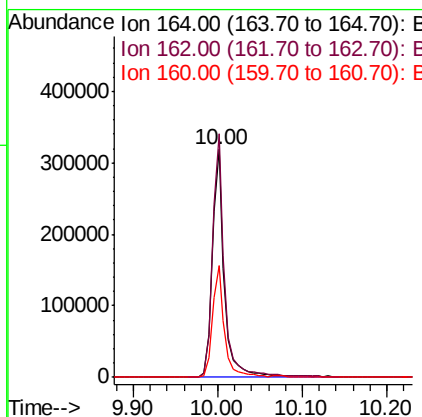
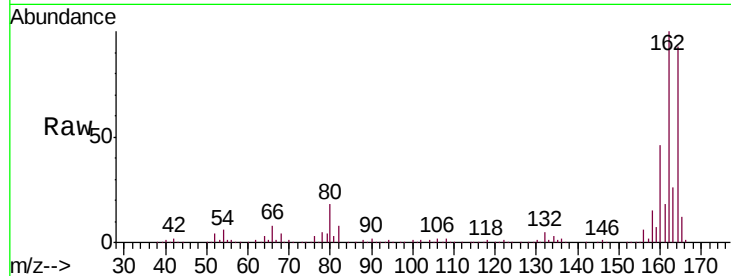




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

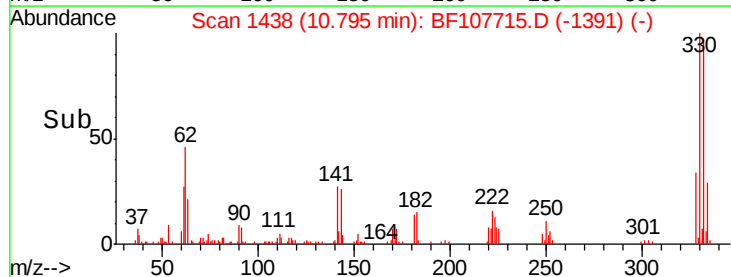
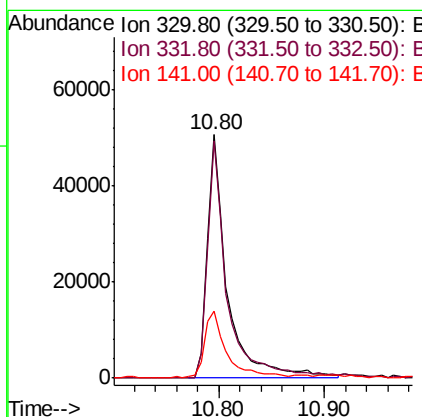
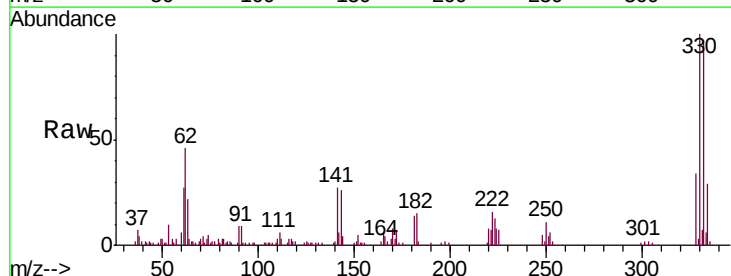
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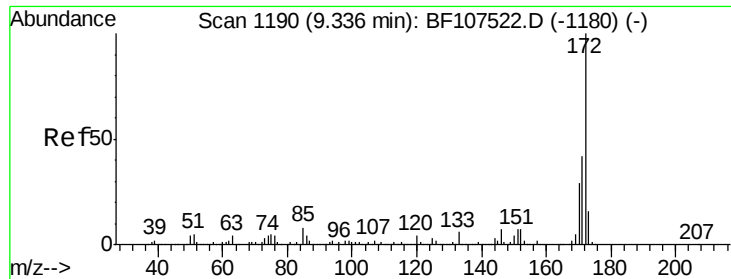
Tgt Ion:164 Resp: 326769
 Ion Ratio Lower Upper
 164 100
 162 107.0 86.1 129.1
 160 49.2 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 17.951 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

Tgt Ion:330 Resp: 66702
 Ion Ratio Lower Upper
 330 100
 332 98.3 77.0 115.6
 141 30.6 29.9 44.9

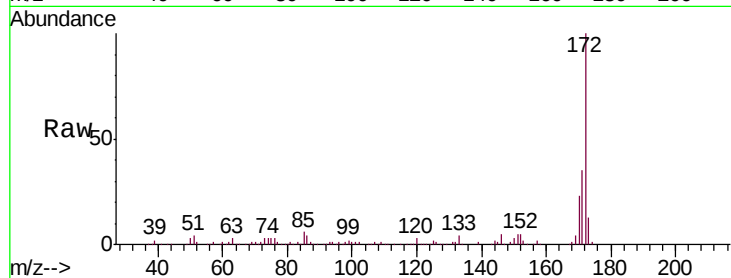




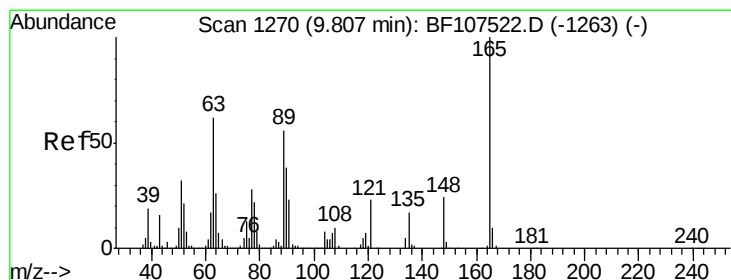
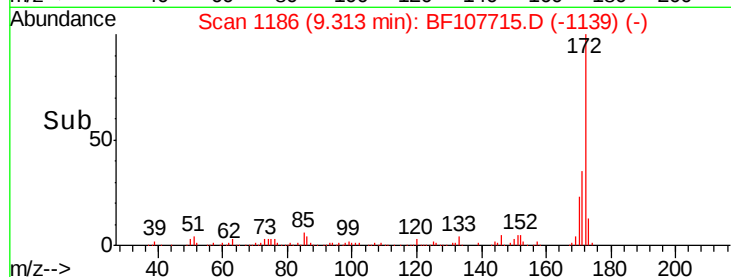
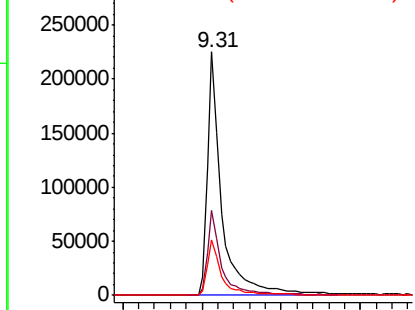
#44
 2-Fluorobiphenyl
 Concen: 8.747 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

Instrument :
 BNA_F
 ClientSampleId :
 SB-11(8-10)

Tgt Ion:172 Resp: 289863
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.7 44.5
 170 22.8 19.6 29.4

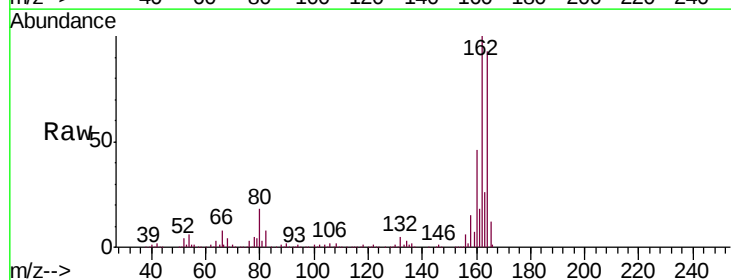


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

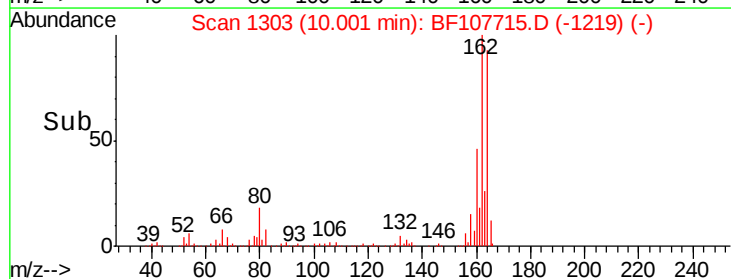
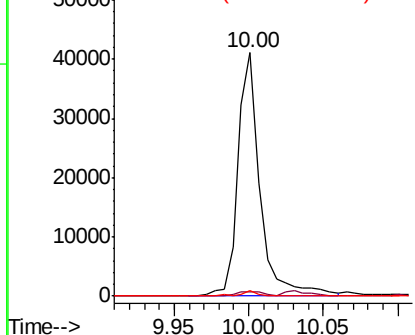


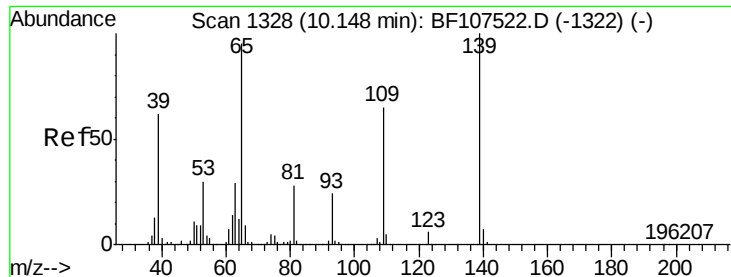
#50
 2,6-Dinitrotoluene
 Concen: 8.751 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. 0.19 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

Tgt Ion:165 Resp: 42789
 Ion Ratio Lower Upper
 165 100
 63 2.0 44.7 67.1#
 89 2.1 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

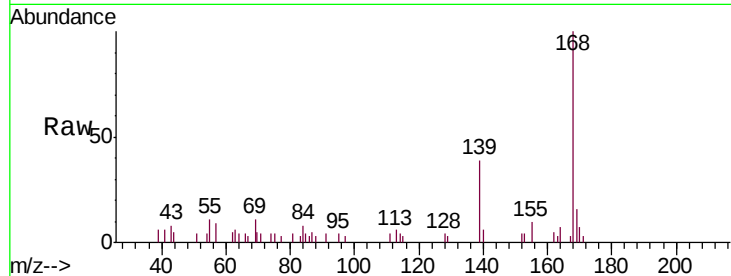




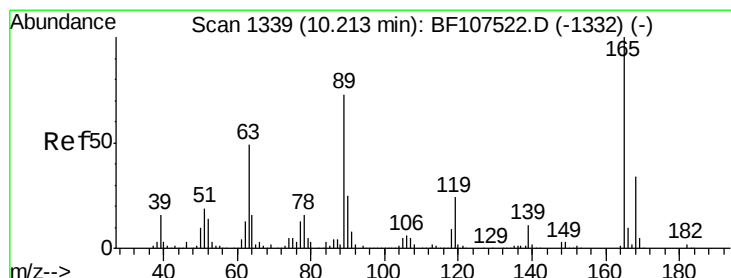
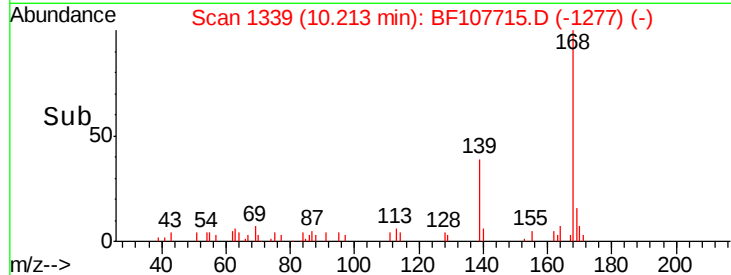
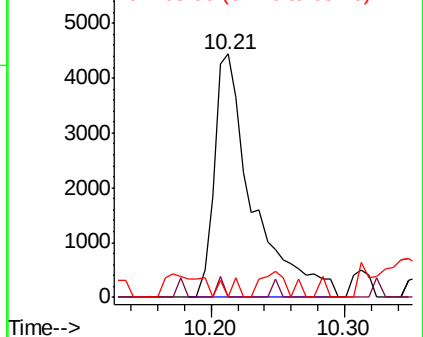
#55
4-Nitrophenol
Concen: 2.004 ng
RT: 10.21 min Scan# 1339
Delta R.T. 0.06 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Instrument :
BNA_F
ClientSampleId :
SB-11(8-10)

Tgt Ion:139 Resp: 8923
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#

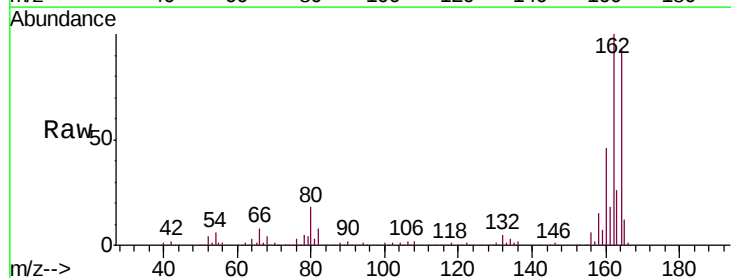


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

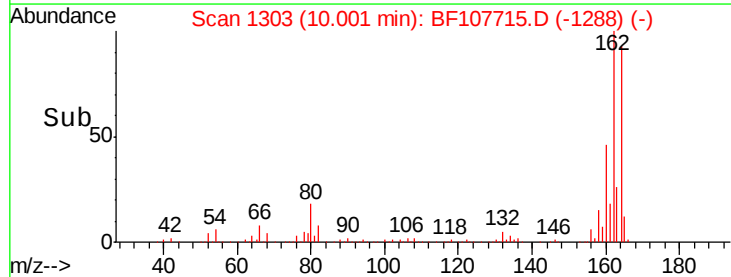
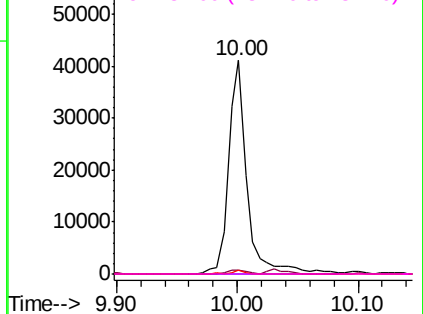


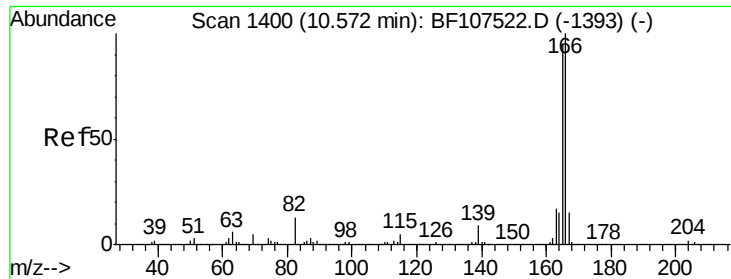
#56
2,4-Dinitrotoluene
Concen: 7.365 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.21 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion:165 Resp: 43468
Ion Ratio Lower Upper
165 100
63 2.0 36.4 54.6#
89 2.1 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

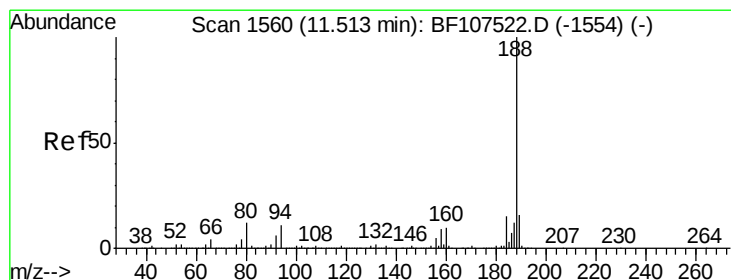
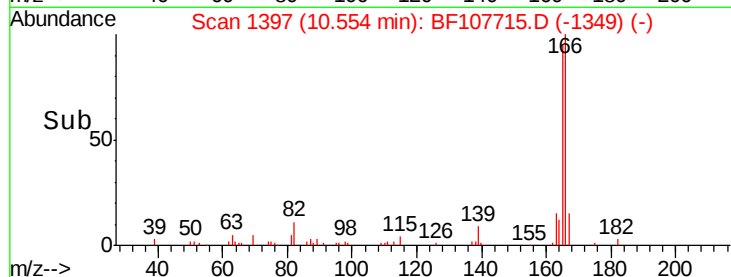
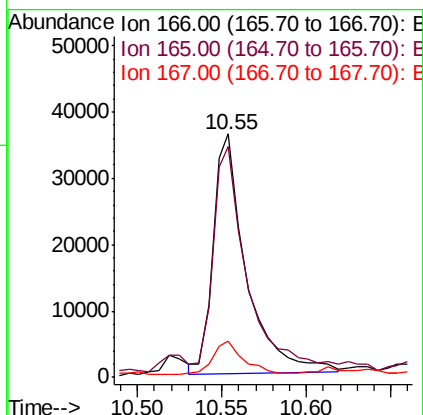
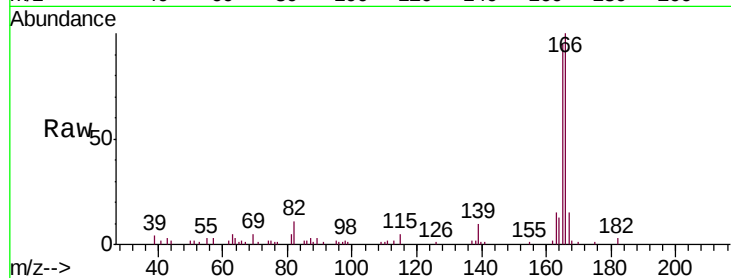




#57
 Fluorene
 Concen: 2.322 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

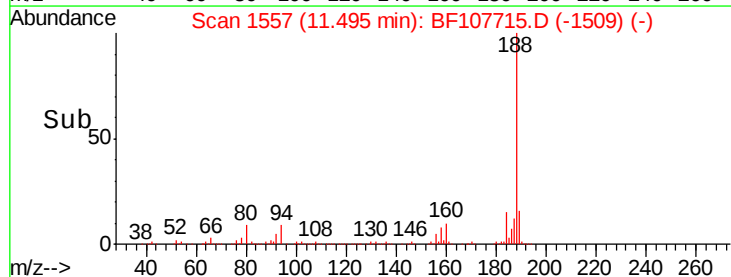
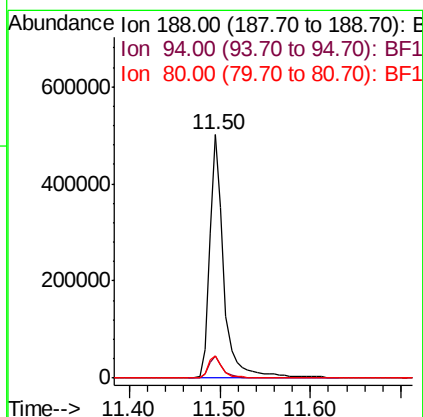
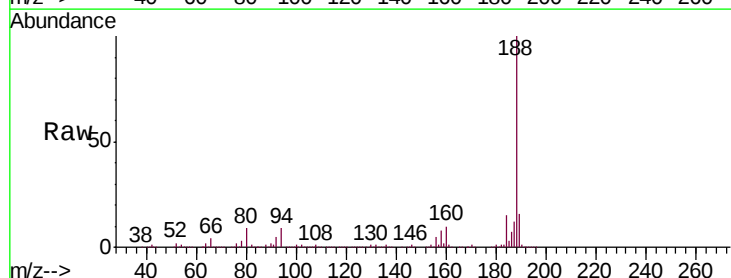
Instrument :
 BNA_F
 ClientSampleId :
 SB-11(8-10)

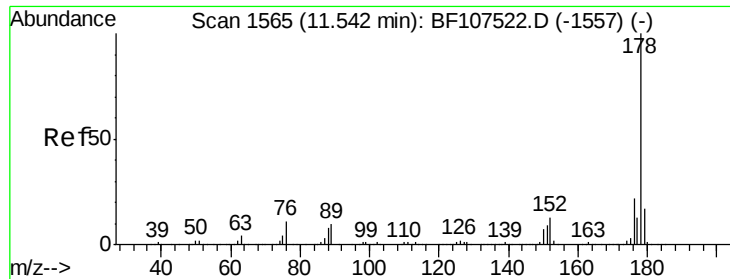
Tgt Ion:166 Resp: 49933
 Ion Ratio Lower Upper
 166 100
 165 94.7 79.8 119.8
 167 14.7 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

Tgt Ion:188 Resp: 550687
 Ion Ratio Lower Upper
 188 100
 94 9.1 8.5 12.7
 80 9.1 9.2 13.8#

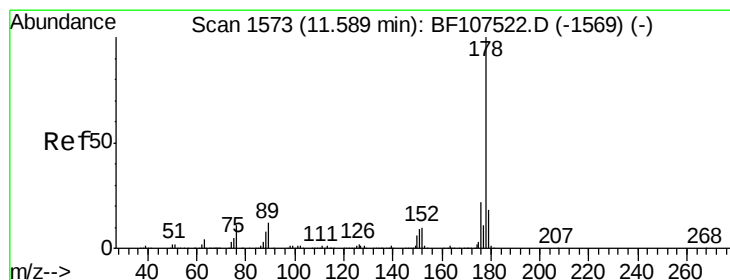
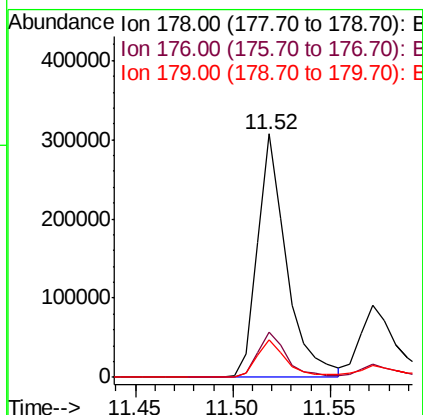
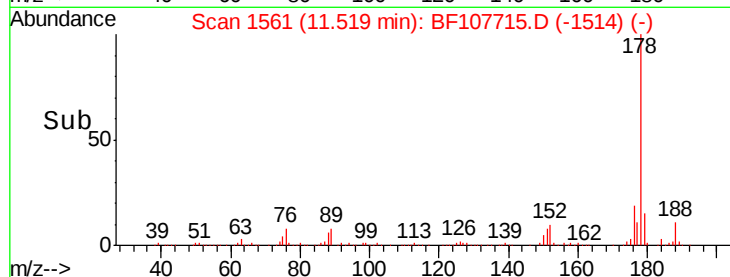
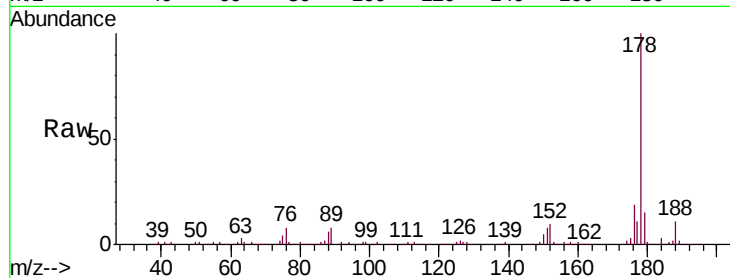




#70
Phenanthrene
Concen: 11.815 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

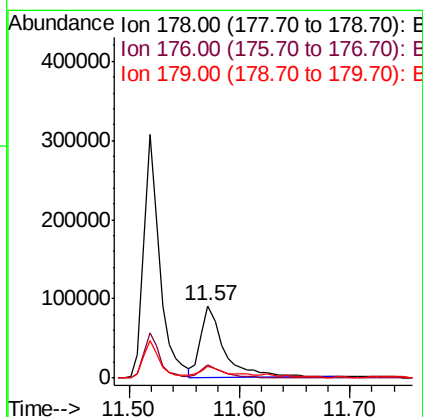
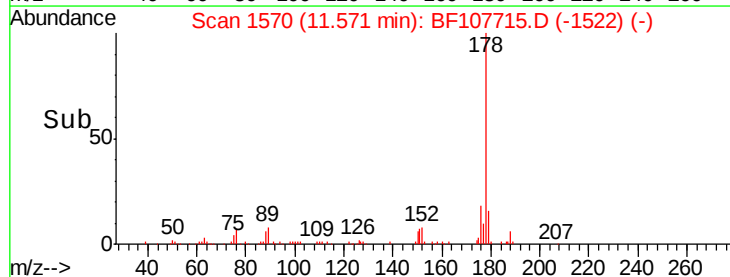
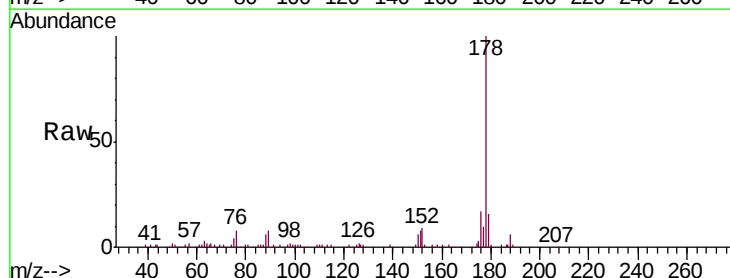
Instrument :
BNA_F
ClientSampleId :
SB-11(8-10)

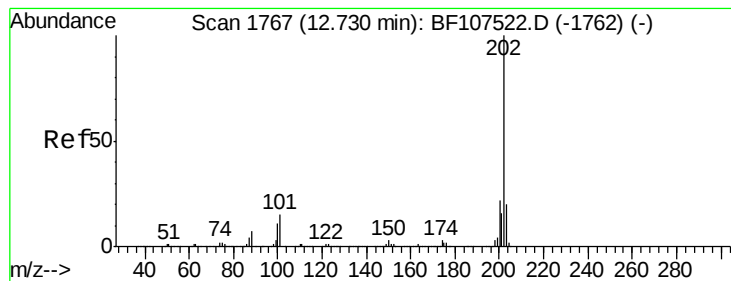
Tgt Ion:178 Resp: 317062
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 15.3 13.0 19.6



#71
Anthracene
Concen: 4.822 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion:178 Resp: 130277
Ion Ratio Lower Upper
178 100
176 17.5 15.4 23.2
179 16.2 12.6 19.0





#74

Fluoranthene

Concen: 15.565 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.02 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

Instrument :

BNA_F

ClientSampleId :

SB-11(8-10)

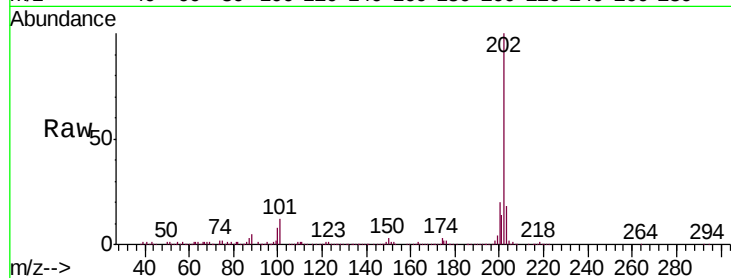
Tgt Ion:202 Resp: 448204

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.1

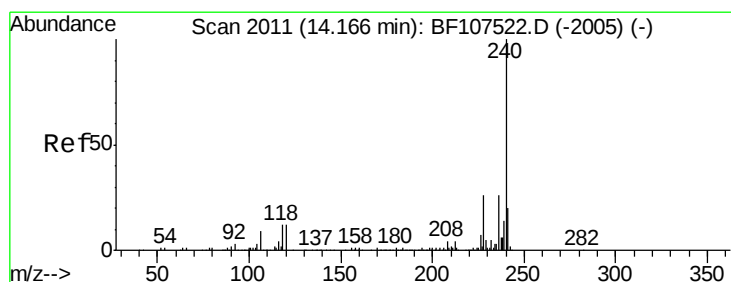
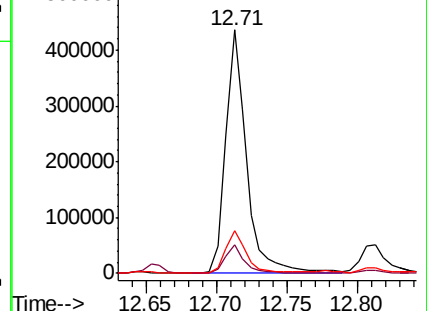
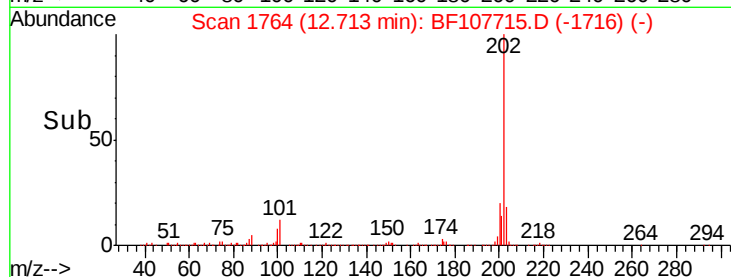
203 17.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

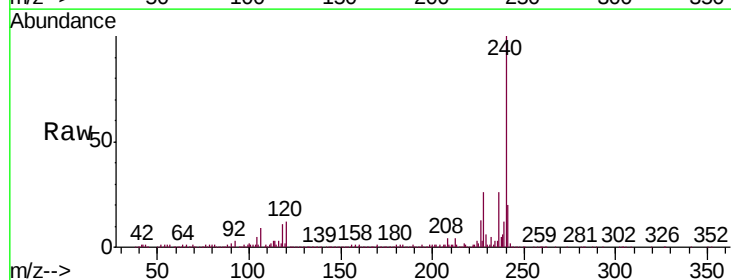
Tgt Ion:240 Resp: 424022

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

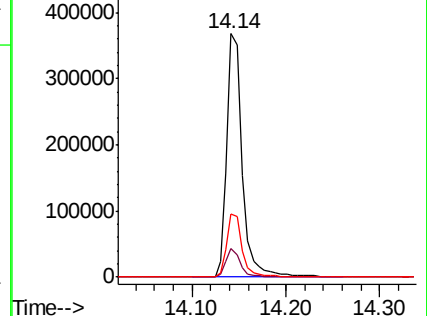
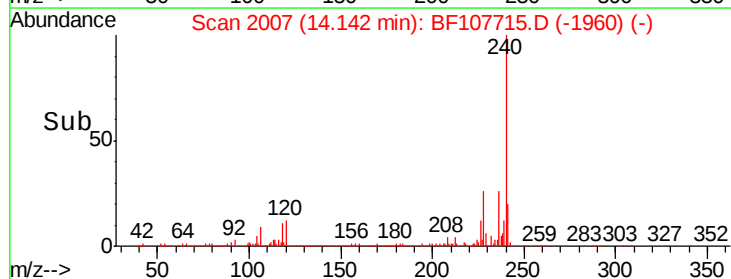
236 26.0 20.7 31.1

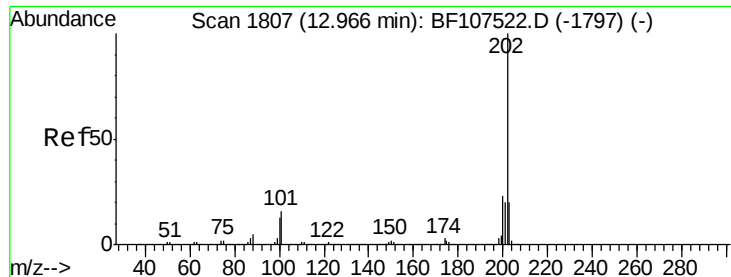


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 12.390 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.02 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

Instrument :

BNA_F

ClientSampleId :

SB-11(8-10)

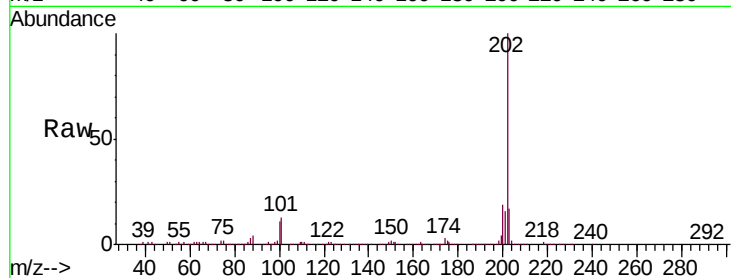
Tgt Ion:202 Resp: 359368

Ion Ratio Lower Upper

202 100

200 19.1 17.4 26.2

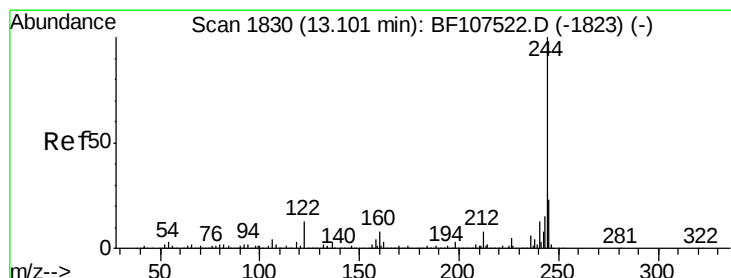
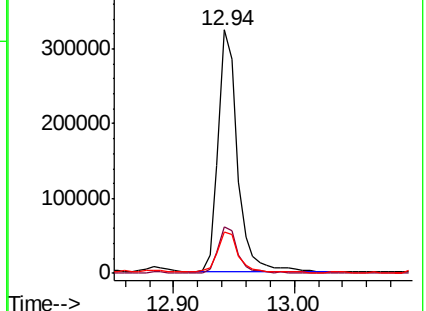
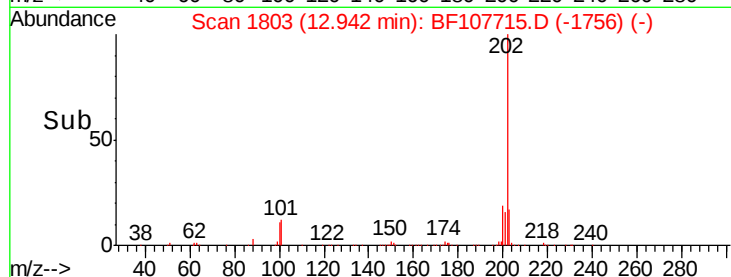
203 17.1 14.3 21.5



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: 13.146 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.02 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

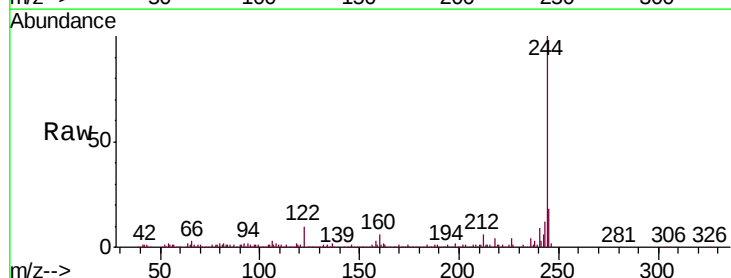
Tgt Ion:244 Resp: 217726

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

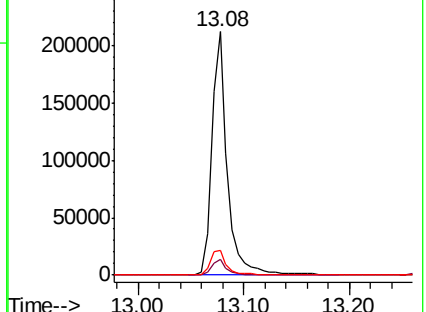
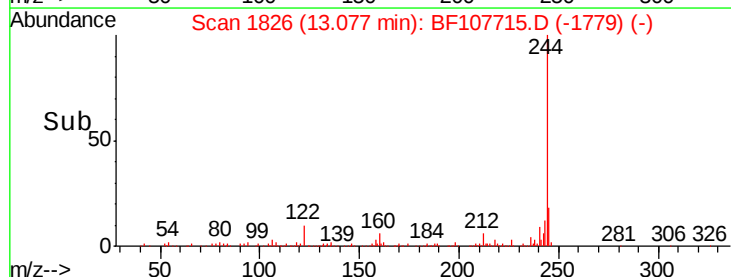
122 10.0 11.0 16.4#

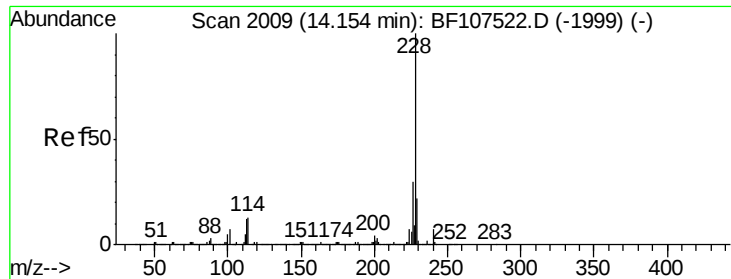


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

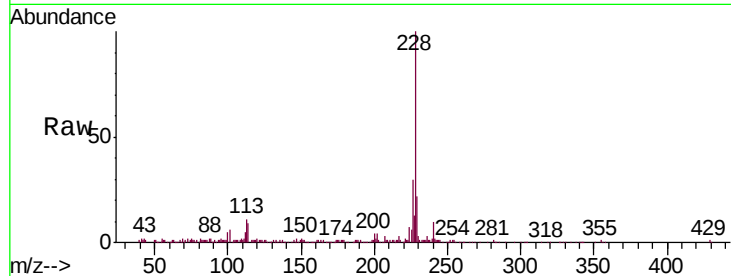




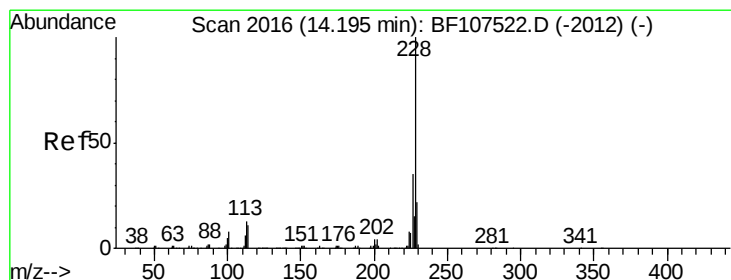
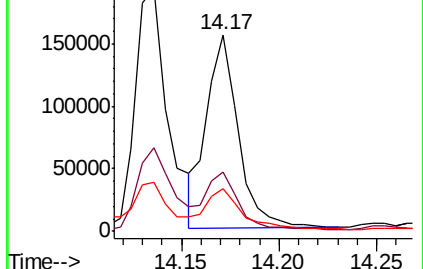
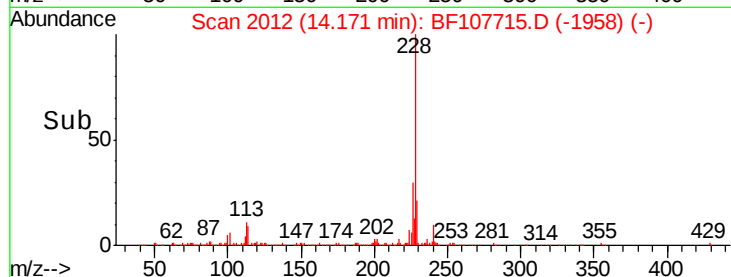
#80
Benzo(a)anthracene
Concen: 7.055 ng
RT: 14.17 min Scan# 2012
Delta R.T. 0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Instrument :
BNA_F
ClientSampleId :
SB-11(8-10)

Tgt Ion:228 Resp: 175298
Ion Ratio Lower Upper
228 100
226 30.5 22.6 33.8
229 21.8 15.8 23.6

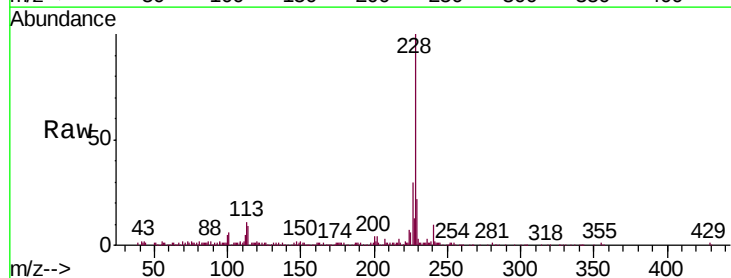


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

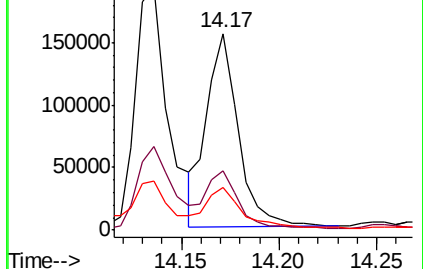
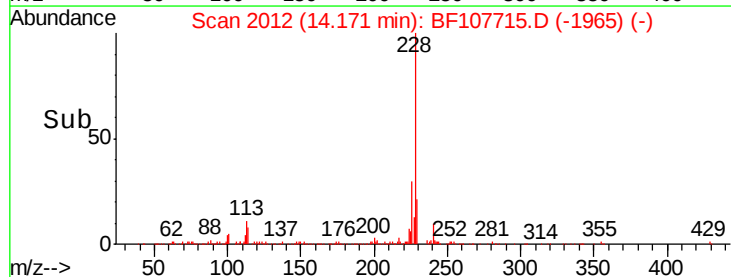


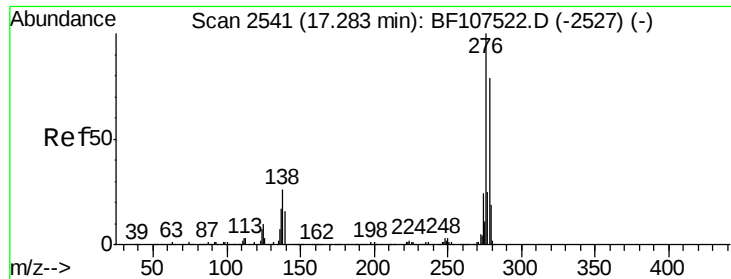
#82
Chrysene
Concen: 7.344 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion:228 Resp: 175298
Ion Ratio Lower Upper
228 100
226 30.5 25.0 37.6
229 21.8 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

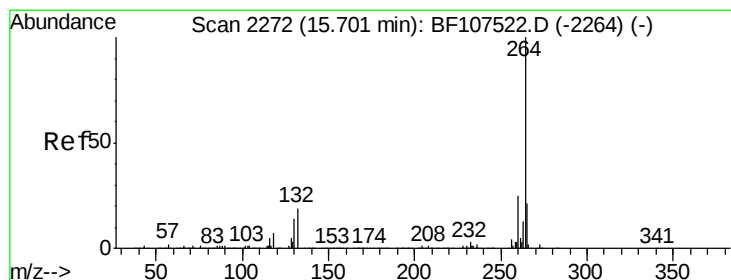
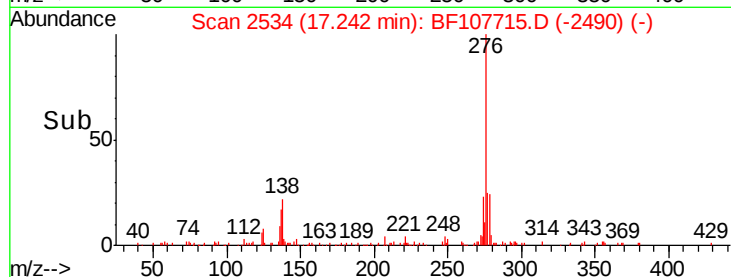
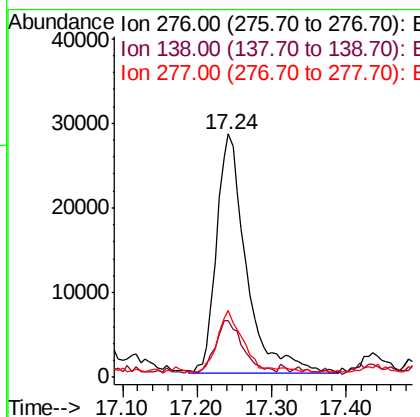
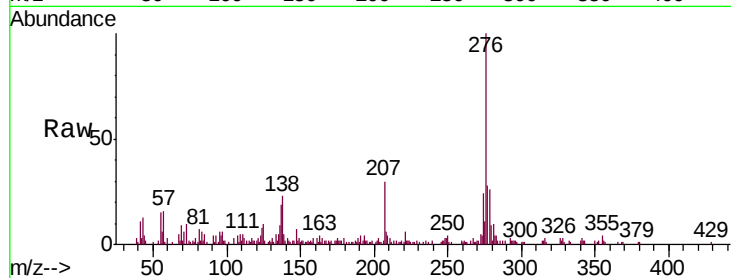




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.819 ng
 RT: 17.24 min Scan# 2534
 Delta R.T. -0.04 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

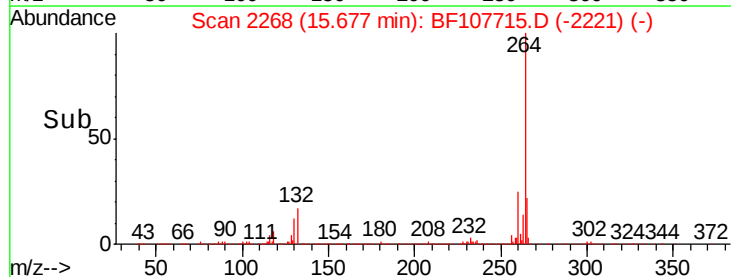
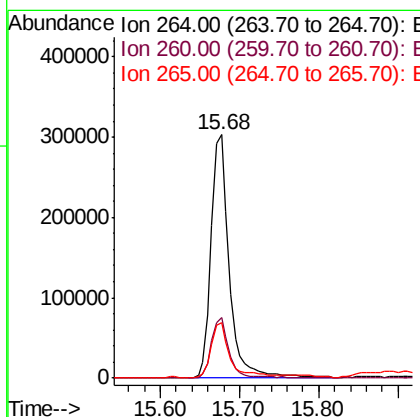
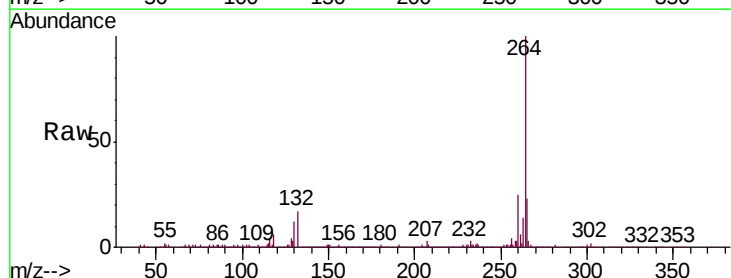
Instrument :
 BNA_F
 ClientSampleId :
 SB-11(8-10)

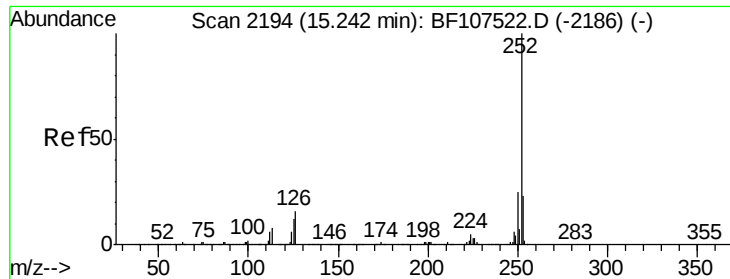
Tgt Ion:276 Resp: 77256
 Ion Ratio Lower Upper
 276 100
 138 20.4 25.0 37.6#
 277 22.3 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2268
 Delta R.T. -0.02 min
 Lab File: BF107715.D
 Acq: 26 Jul 2018 22:15

Tgt Ion:264 Resp: 481181
 Ion Ratio Lower Upper
 264 100
 260 25.0 19.2 28.8
 265 22.7 17.5 26.3

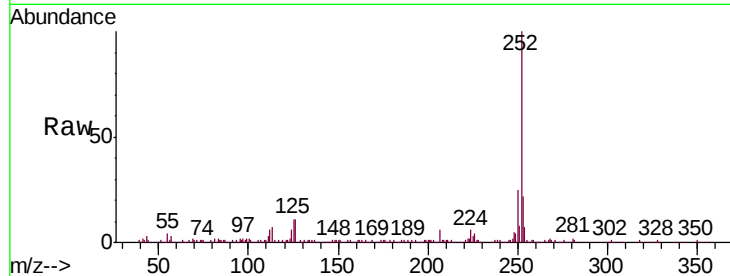




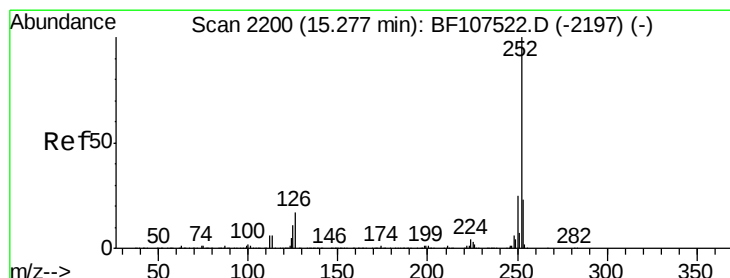
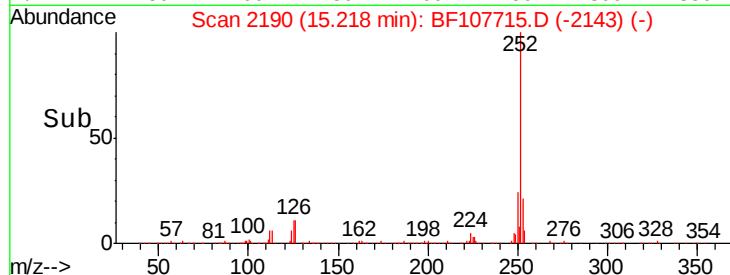
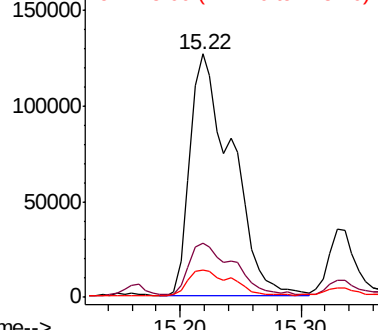
#87
Benzo(b)fluoranthene
Concen: 11.580 ng
RT: 15.22 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Instrument :
BNA_F
ClientSampleId :
SB-11(8-10)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	11.2	9.0	13.6

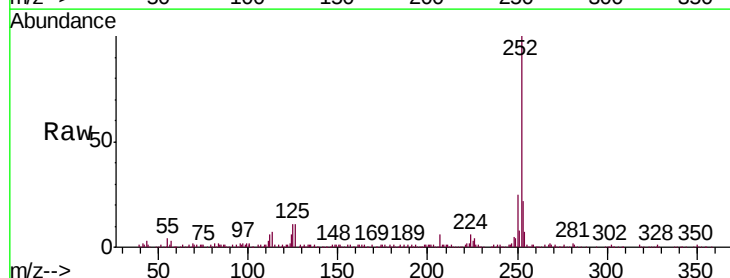


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

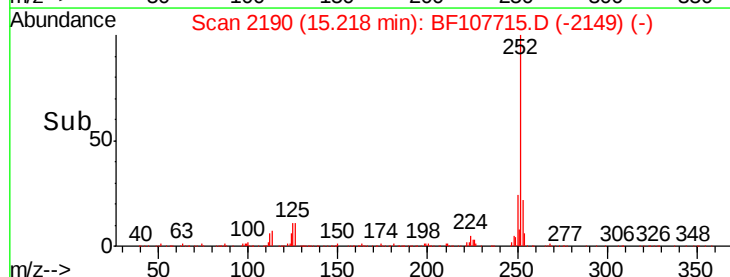
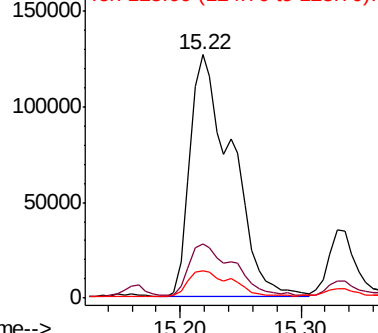


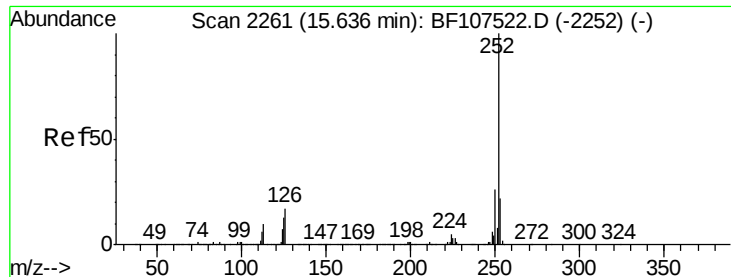
#88
Benzo(k)fluoranthene
Concen: 11.820 ng
RT: 15.22 min Scan# 2190
Delta R.T. -0.06 min
Lab File: BF107715.D
Acq: 26 Jul 2018 22:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	11.2	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: 6.896 ng

RT: 15.61 min Scan# 2256

Delta R.T. -0.03 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

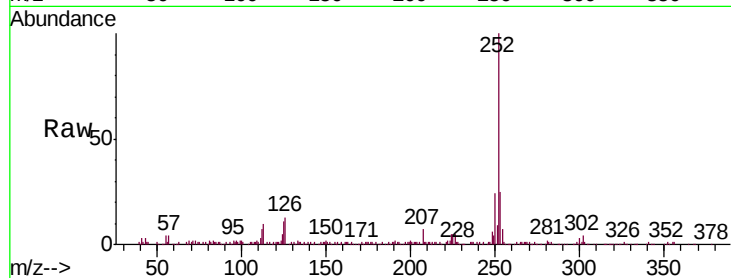
Instrument :

BNA_F

ClientSampleId :

SB-11(8-10)

Tgt Ion:	252	Resp:	166122
Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.1	25.7
125	11.3	9.8	14.6

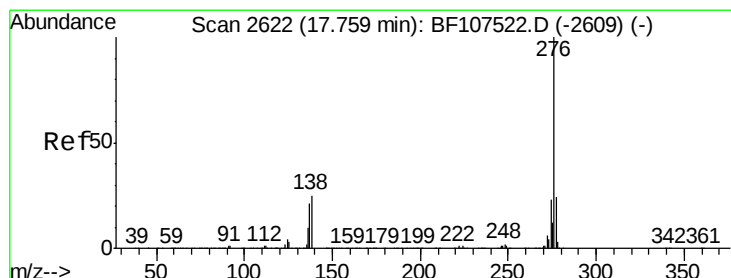
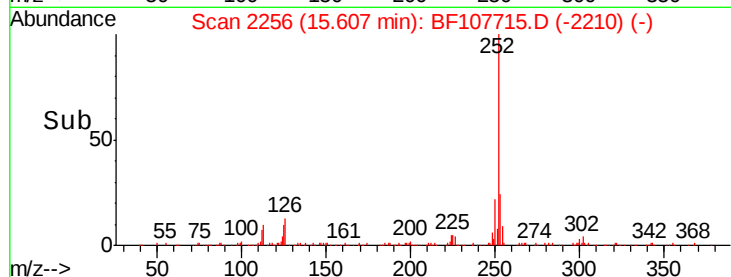
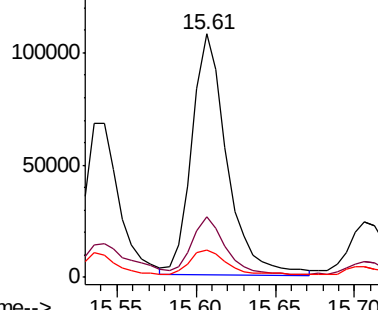


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.820 ng

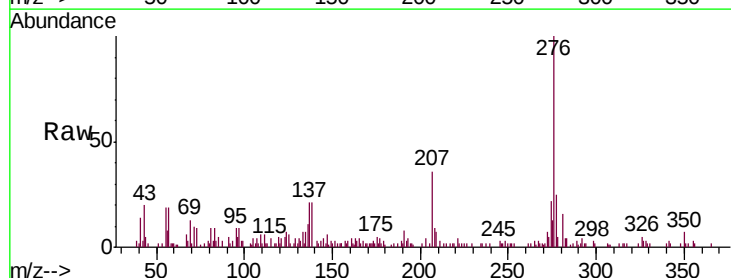
RT: 17.72 min Scan# 2615

Delta R.T. -0.04 min

Lab File: BF107715.D

Acq: 26 Jul 2018 22:15

Tgt Ion:	276	Resp:	57923
Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	20.8	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

