

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121117\
 Data File : BF101323.D
 Acq On : 12 Dec 2017 9:10
 Operator : SJ/JU
 Sample : I6764-01DL 4X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 12 09:56:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	38594	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	142746	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	58877	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	106161	20.00	ng	0.00
75) Chrysene-d12	14.02	240	83911	20.00	ng	0.01
86) Perylene-d12	15.50	264	67933	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	61510	26.34	ng	0.00
7) Phenol-d6	6.46	99	76689	27.04	ng	0.00
23) Nitrobenzene-d5	7.39	82	40711	17.01	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	14679	20.75	ng	0.00
44) 2-Fluorobiphenyl	9.19	172	97069	22.56	ng	0.00
78) Terphenyl-d14	12.95	244	81495	21.24	ng	0.00

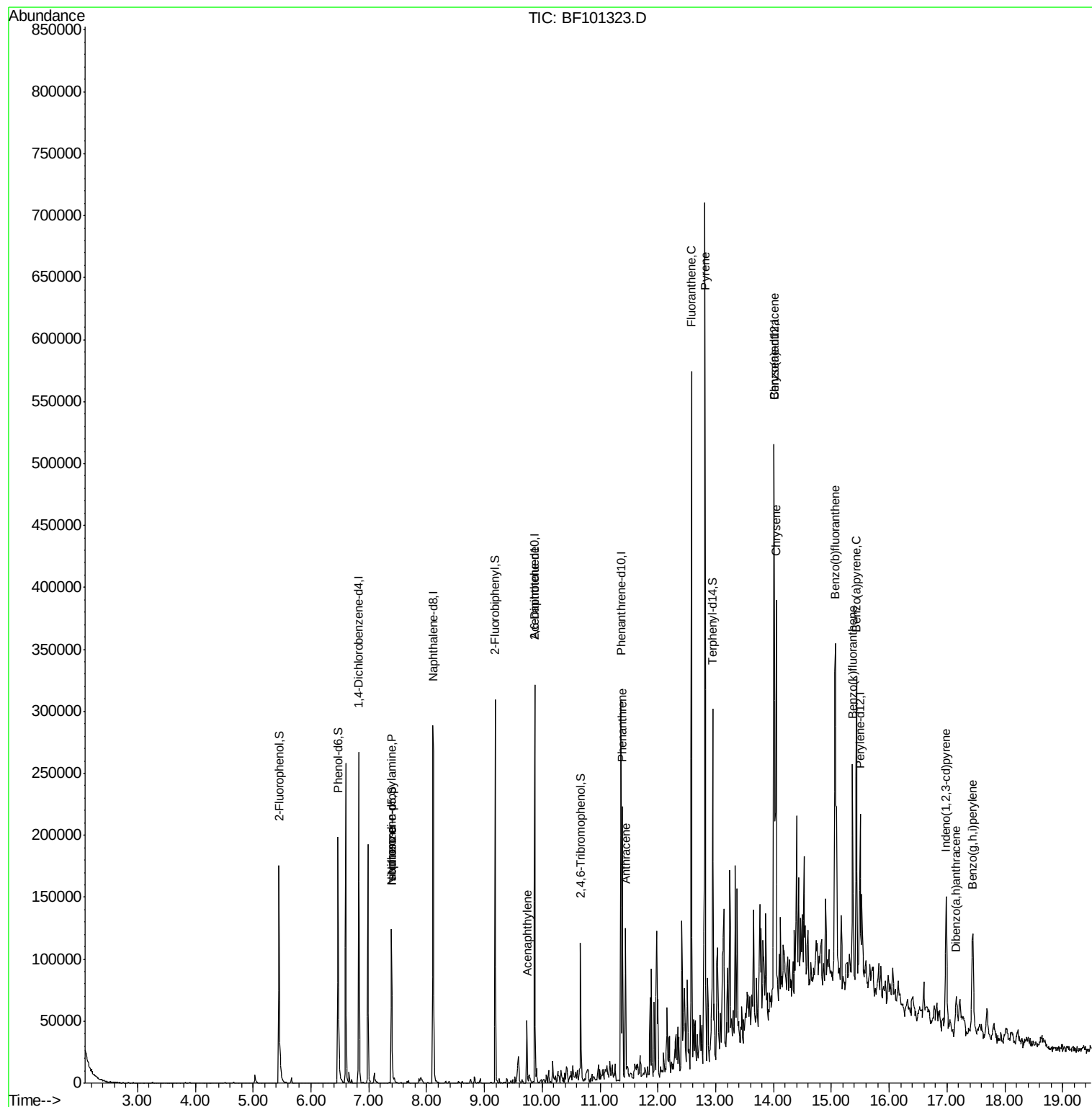
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.39	70	5138	2.691	ng	# 77
25) Isophorone	7.39	82	40711	9.960	ng	# 64
48) Acenaphthylene	9.73	152	23619	3.752	ng	96
50) 2,6-Dinitrotoluene	9.87	165	7739	7.738	ng	# 24
70) Phenanthrene	11.39	178	75689	12.947	ng	98
71) Anthracene	11.44	178	50476	8.531	ng	97
74) Fluoranthene	12.59	202	225148	34.743	ng	91
77) Pyrene	12.82	202	265292	45.818	ng	99
80) Benzo(a)anthracene	14.00	228	147197	27.783	ng	97
82) Chrysene	14.04	228	131206	26.666	ng	98
85) Indeno(1,2,3-cd)pyrene	16.99	276	63255	14.460	ng	# 90
87) Benzo(b)fluoranthene	15.06	252	194644	47.836	ng	97
88) Benzo(k)fluoranthene	15.37	252	77120	19.237	ng	97
89) Benzo(a)pyrene	15.43	252	113915	30.794	ng	96
90) Dibenzo(a,h)anthracene	17.16	278	15364	4.711	ng	94
91) Benzo(g,h,i)perylene	17.44	276	64369	20.944	ng	# 92

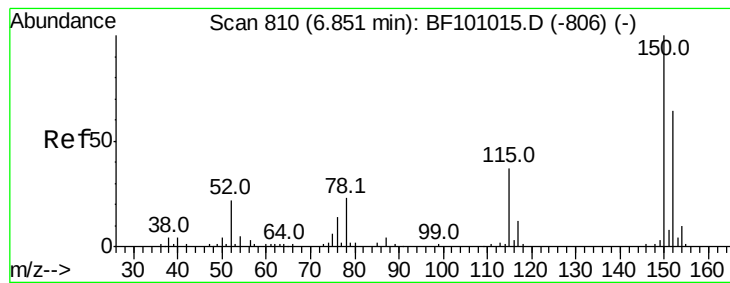
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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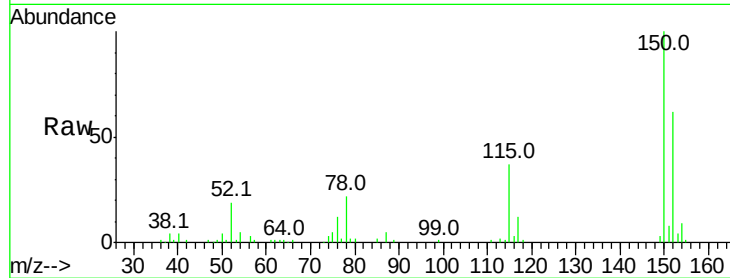


#1

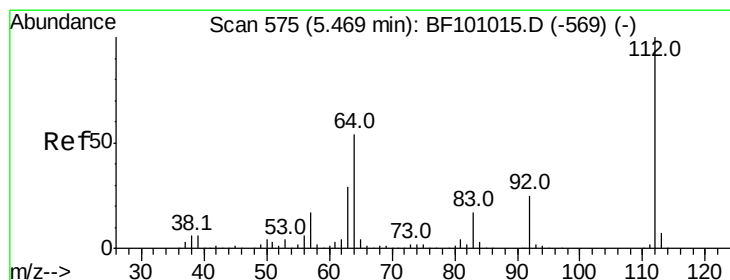
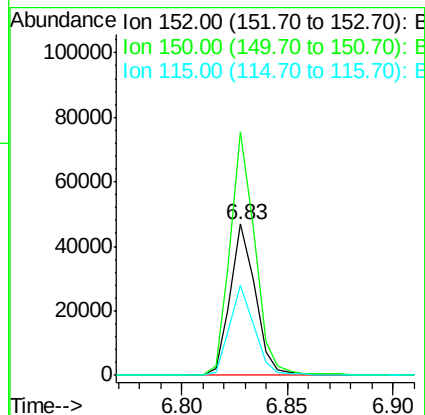
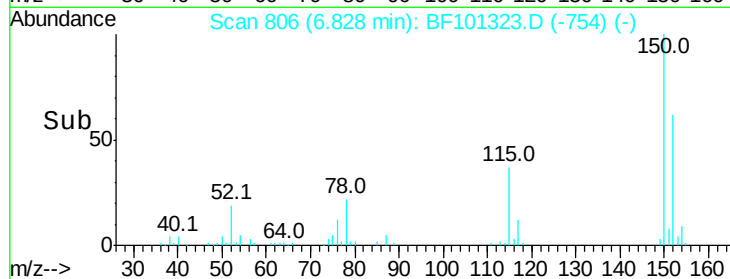
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. 0.01 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 38594
Ion Ratio Lower Upper
152 100
150 161.4 124.6 186.8
115 60.0 50.1 75.1



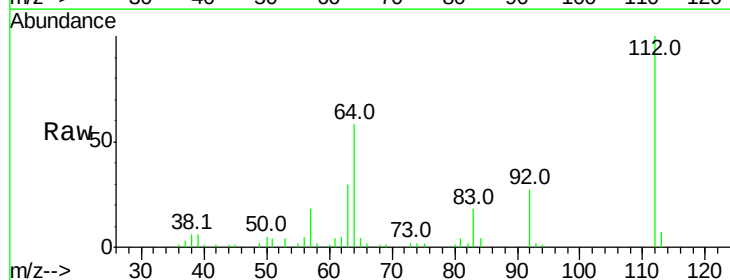
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



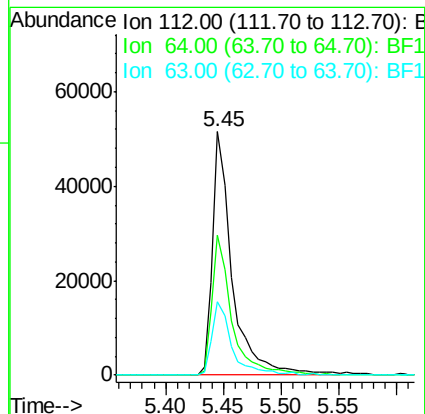
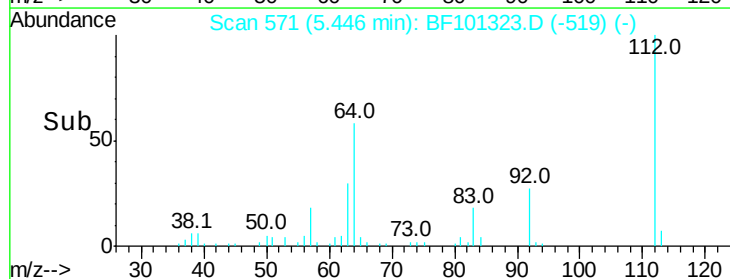
#5

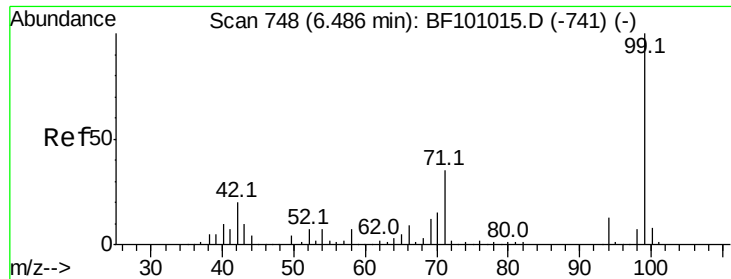
2-Fluorophenol
Concen: 26.336 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.01 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

Tgt Ion:112 Resp: 61510
Ion Ratio Lower Upper
112 100
64 57.5 47.9 71.9
63 30.1 23.7 35.5



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





#7

Phenol-d6

Concen: 27.045 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.00 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampled :

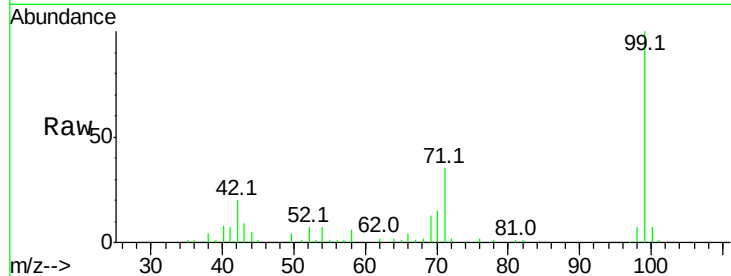
Tot Ion: 99 Resp: 76689

Ion Ratio Lower Upper

99 100

42 19.9 14.5 21.7

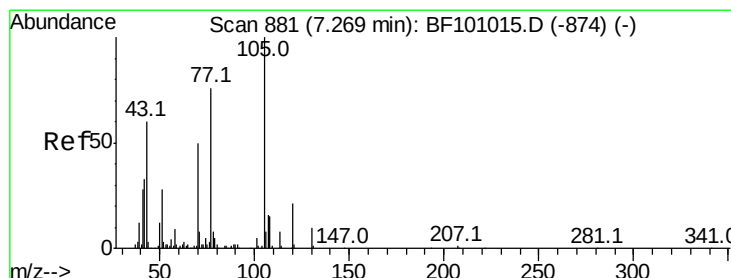
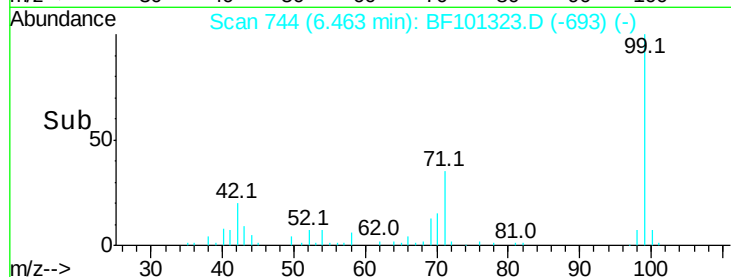
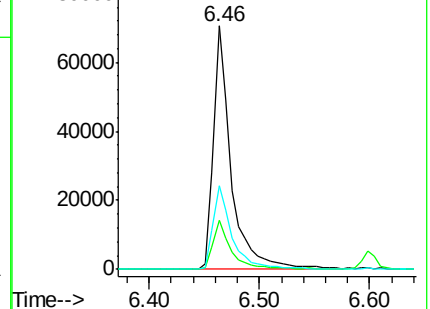
71 34.6 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.691 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.15 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Tgt Ion: 70 Resp: 5138

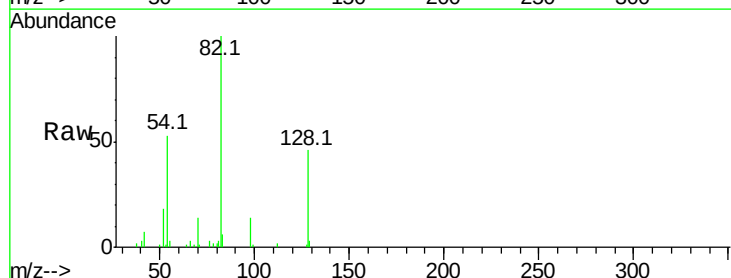
Ion Ratio Lower Upper

70 100

42 47.7 47.5 71.3

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

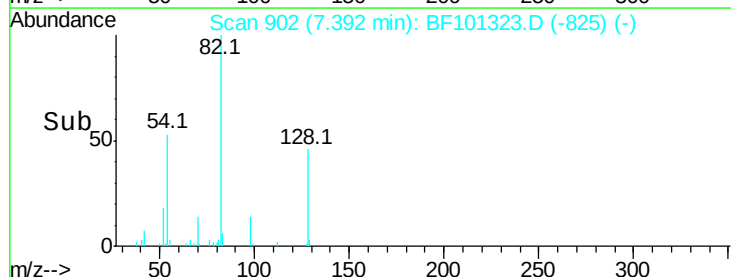
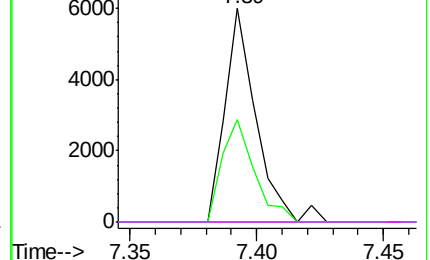


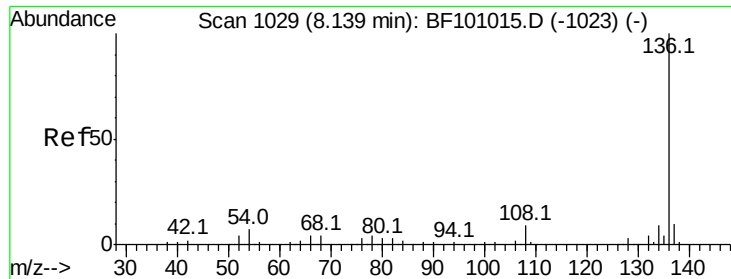
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

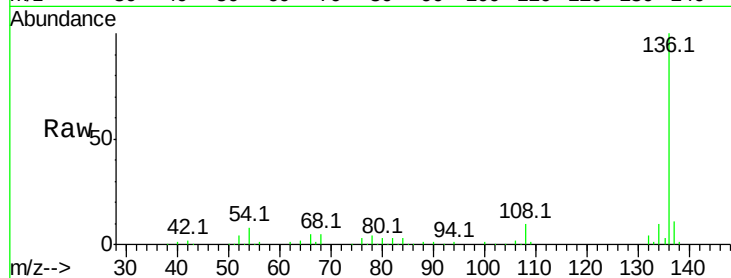




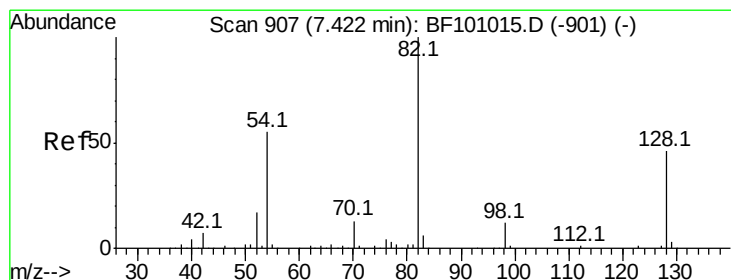
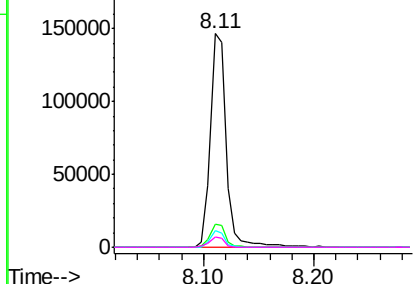
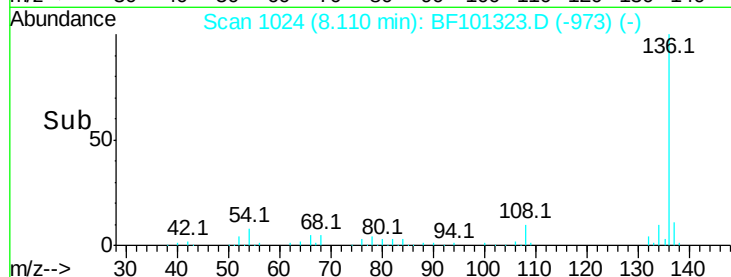
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.11 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	142746
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.0	6.6	9.8
68	5.0	5.0	7.4

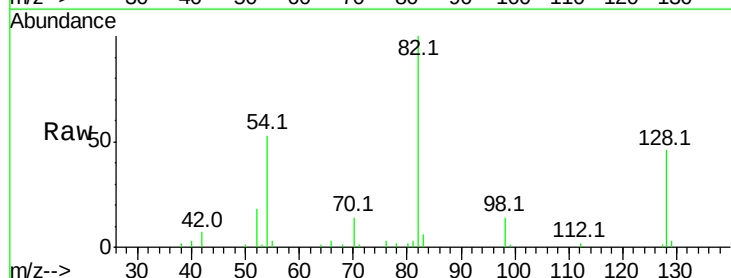


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

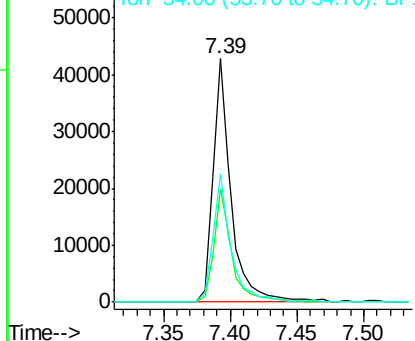
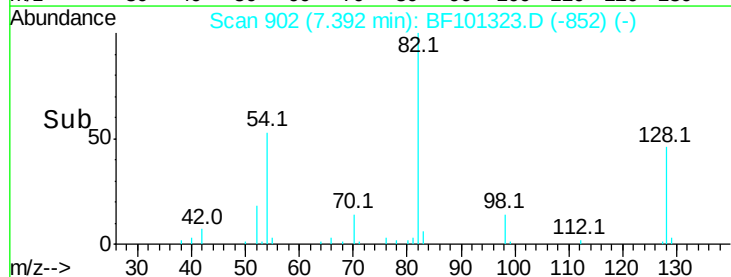


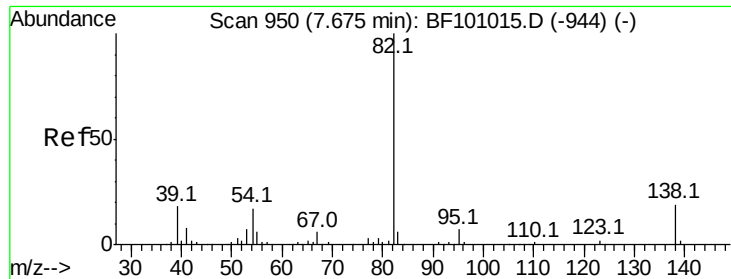
#23
Nitrobenzene-d5
Concen: 17.013 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

Tgt Ion:	82	Resp:	40711
Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.1	54.1
54	52.5	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: 9.960 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.26 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampleId :

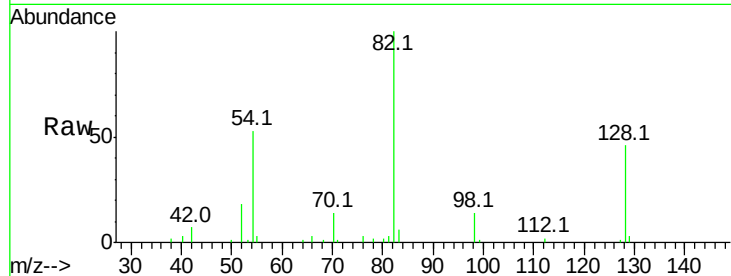
Tot Ion: 82 Resp: 40711

Ion Ratio Lower Upper

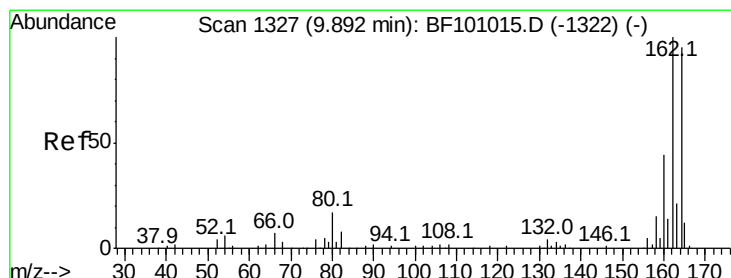
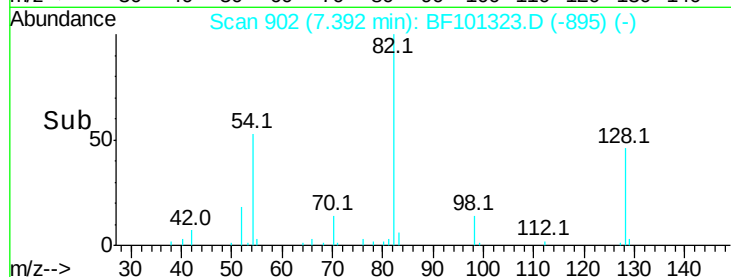
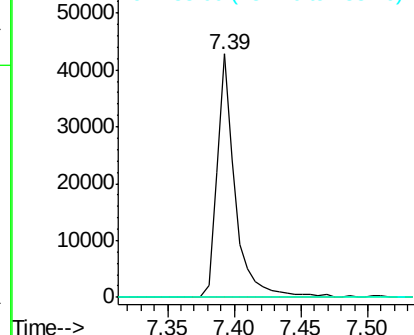
82 100

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: 9.87 min Scan# 1323

Delta R.T. 0.00 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

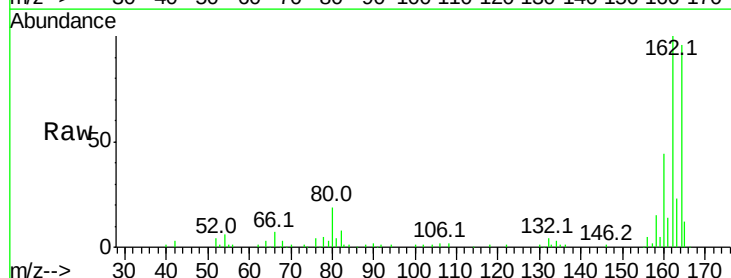
Tgt Ion: 164 Resp: 58877

Ion Ratio Lower Upper

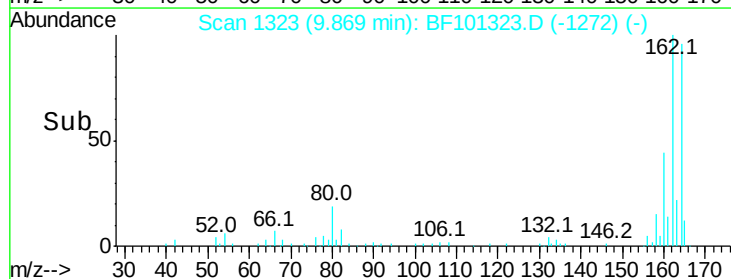
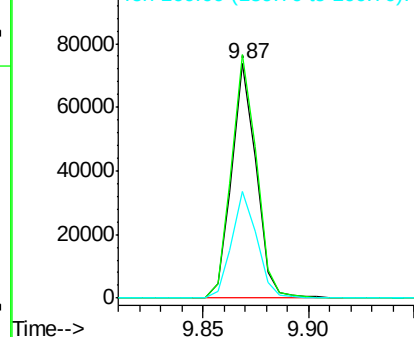
164 100

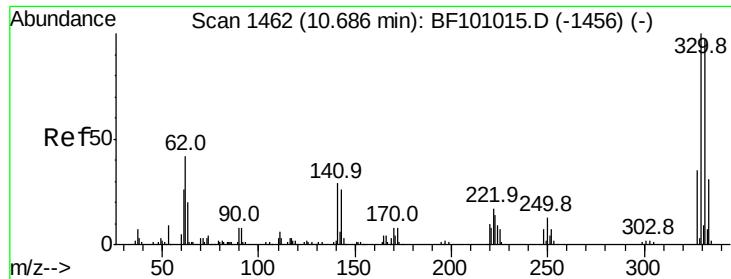
162 103.8 86.1 129.1

160 45.2 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

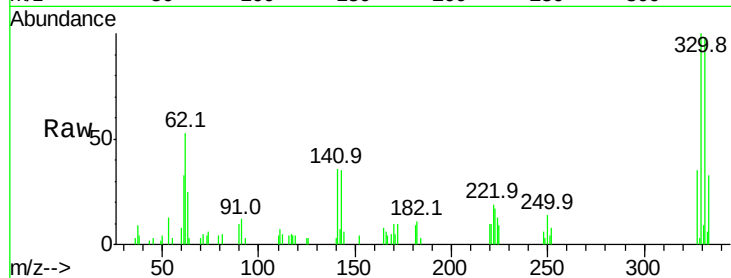




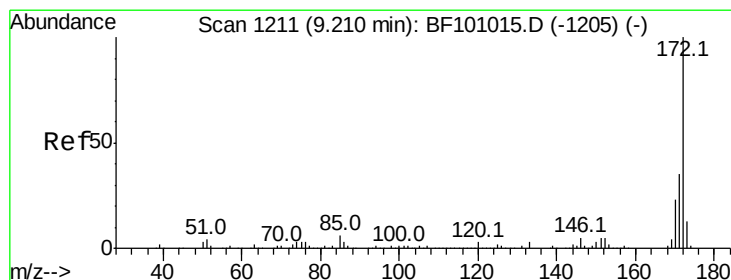
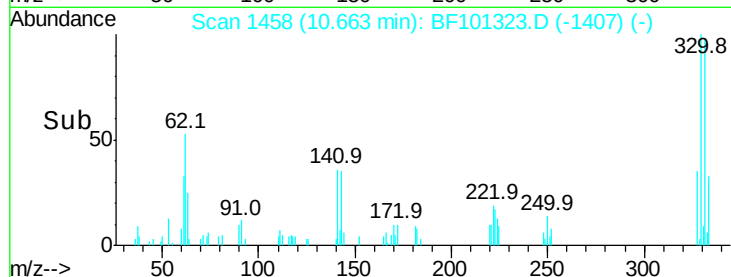
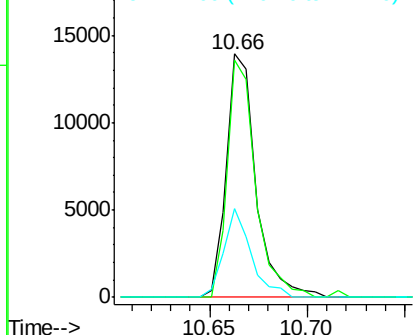
#41
 2,4,6-Tribromophenol
 Concen: 20.754 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.00 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 14679
 Ion Ratio Lower Upper
 330 100
 332 93.2 77.0 115.6
 141 33.6 29.9 44.9

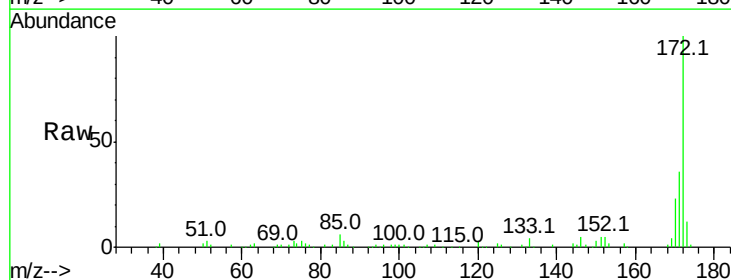


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

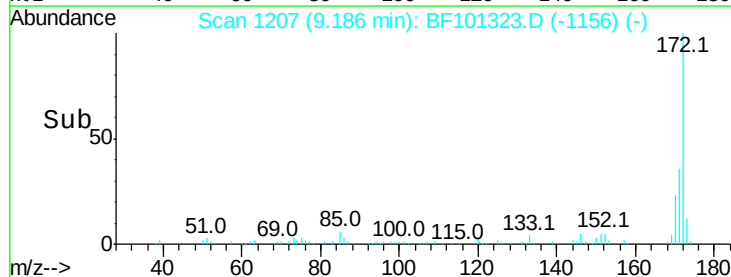
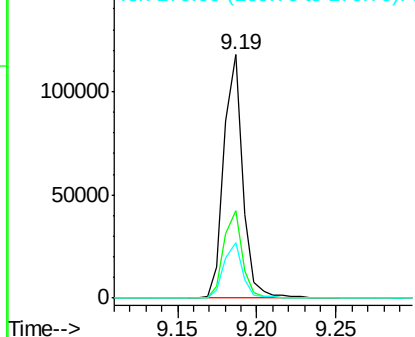


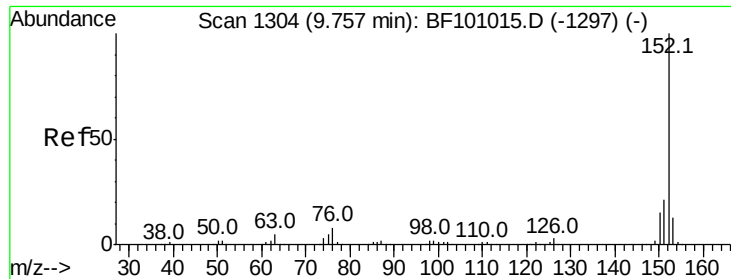
#44
 2-Fluorobiphenyl
 Concen: 22.557 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. 0.00 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Tgt Ion:172 Resp: 97069
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.7 44.5
 170 22.7 19.6 29.4



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





#48

Acenaphthylene

Concen: 3.752 ng

RT: 9.73 min Scan# 1300

Delta R.T. 0.01 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampleId :

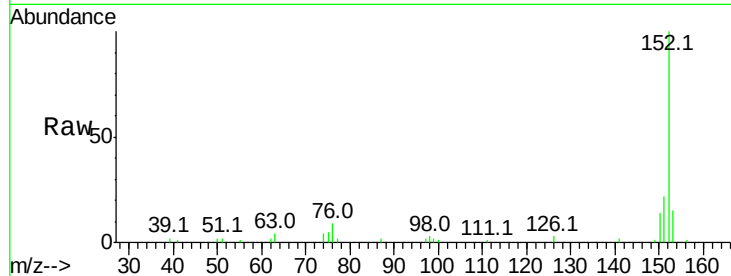
Tot Ion:152 Resp: 23619

Ion Ratio Lower Upper

152 100

151 22.2 16.3 24.5

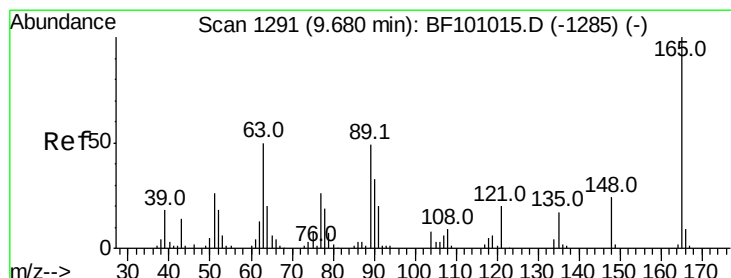
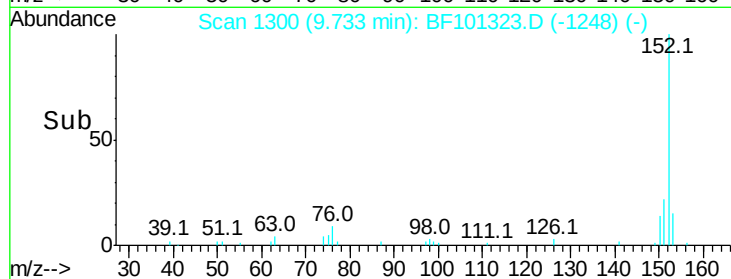
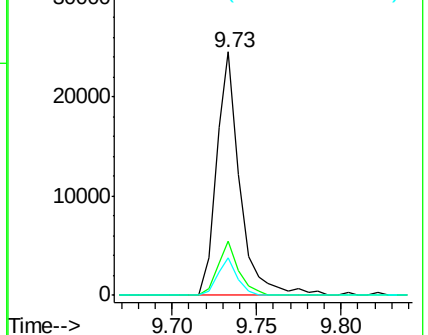
153 15.3 10.7 16.1



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



#50

2,6-Dinitrotoluene

Concen: 7.738 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.21 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

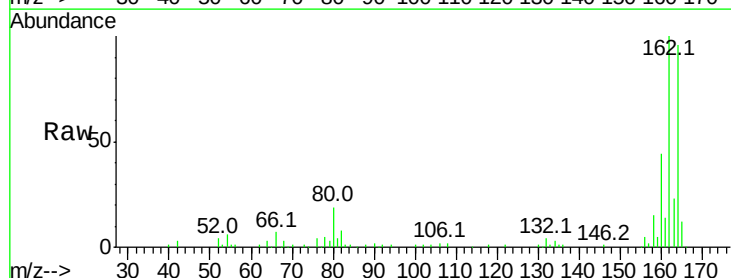
Tgt Ion:165 Resp: 7739

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

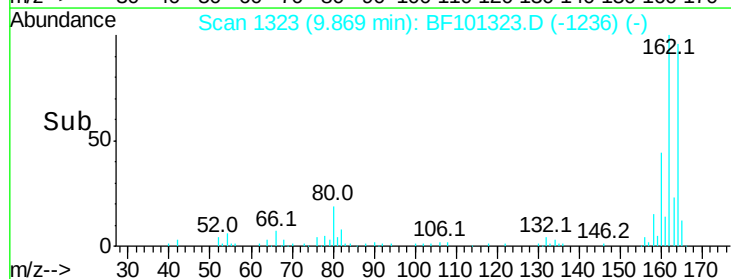
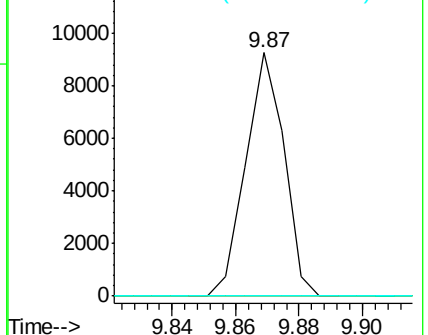
89 0.0 44.0 66.0#

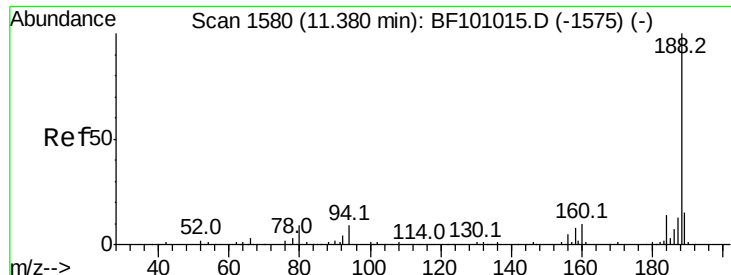


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

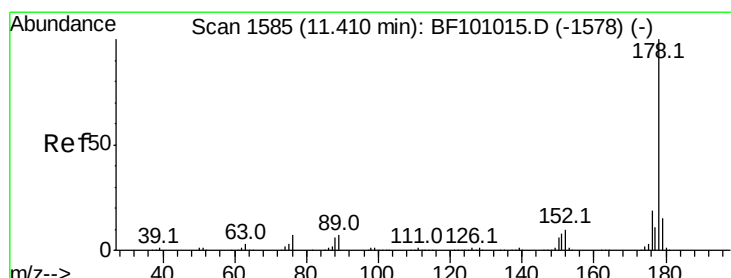
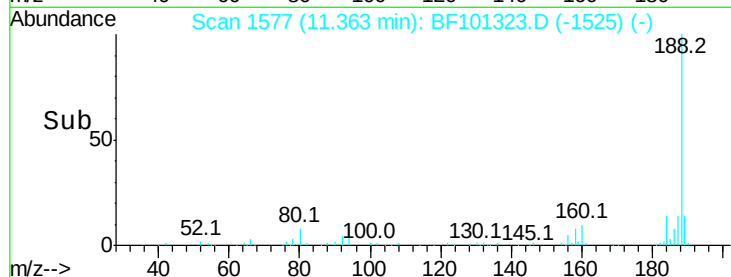
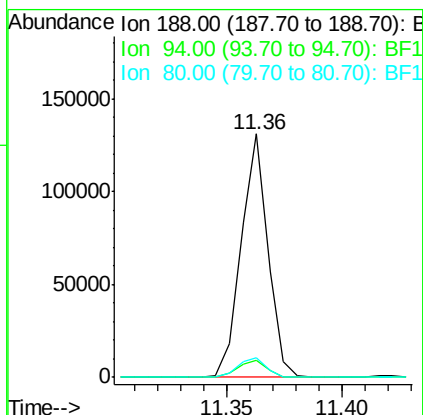
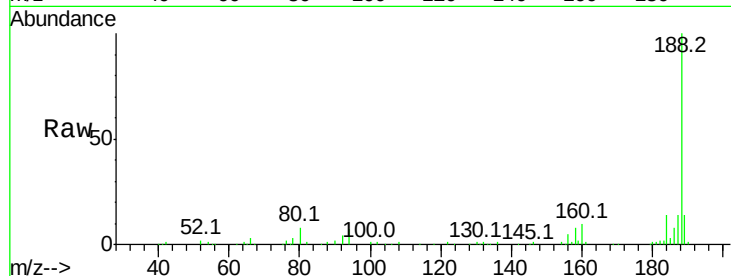




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

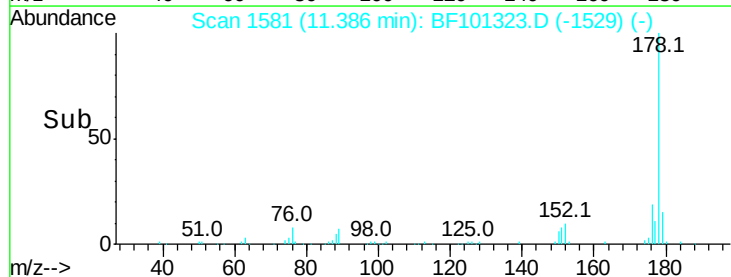
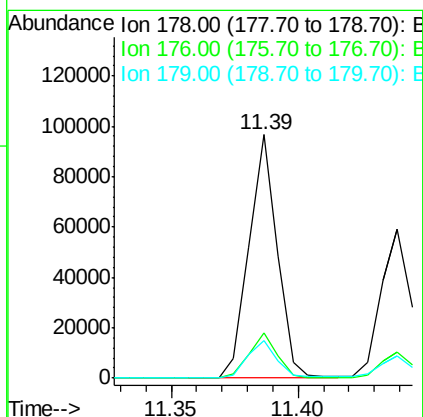
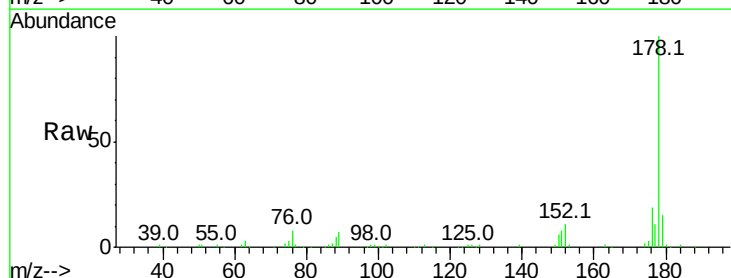
Instrument :
 BNA_F
 ClientSampleId :

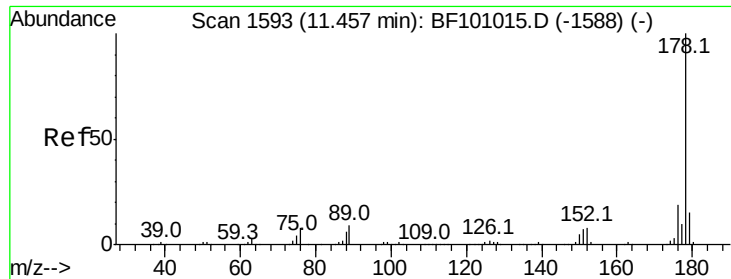
Tot Ion	Ratio	Lower	Upper
188	100		
94	6.9	8.5	12.7#
80	8.0	9.2	13.8#



#70
 Phenanthrene
 Concen: 12.947 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.3	13.0	19.6

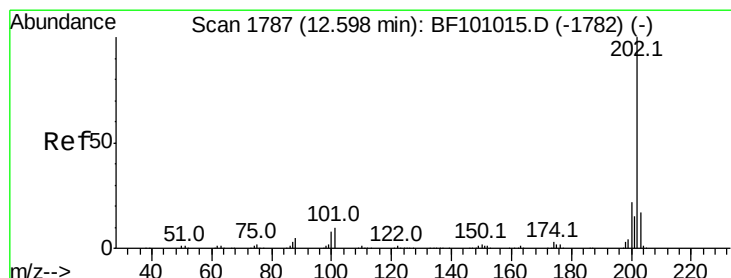
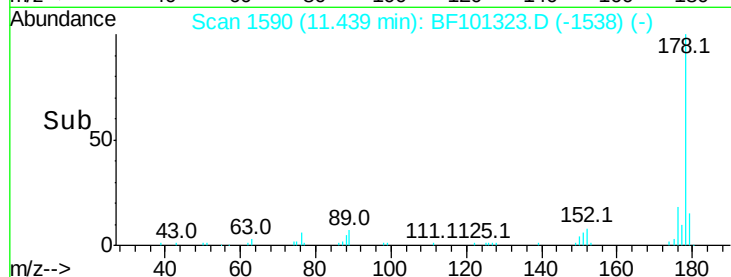
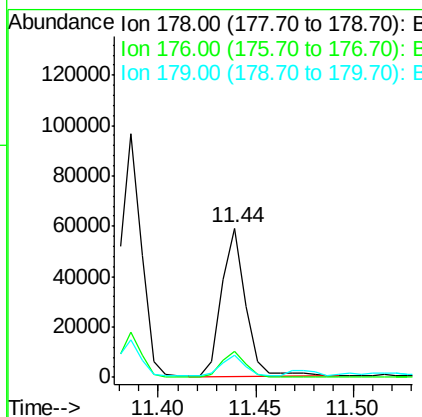
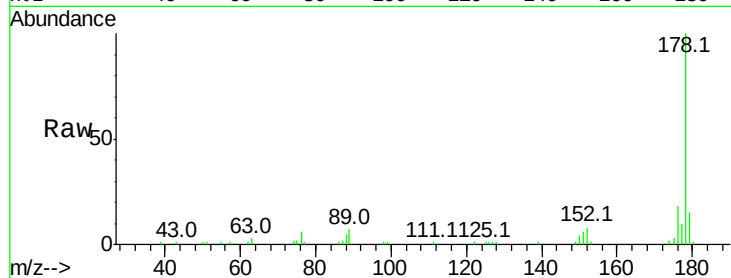




#71
 Anthracene
 Concen: 8.531 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

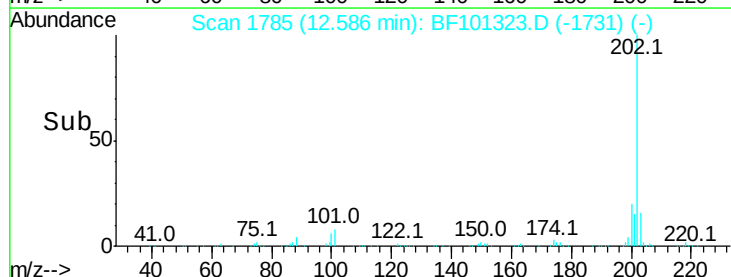
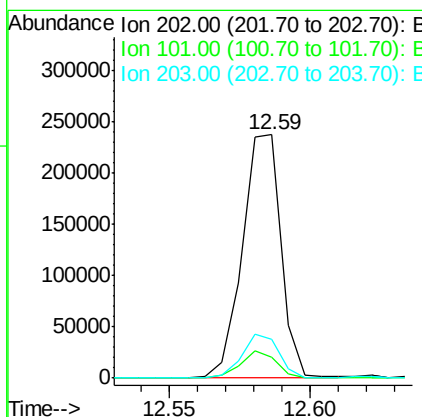
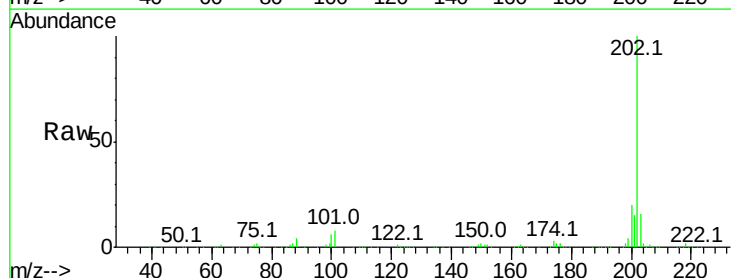
Instrument :
 BNA_F
 ClientSampleId :

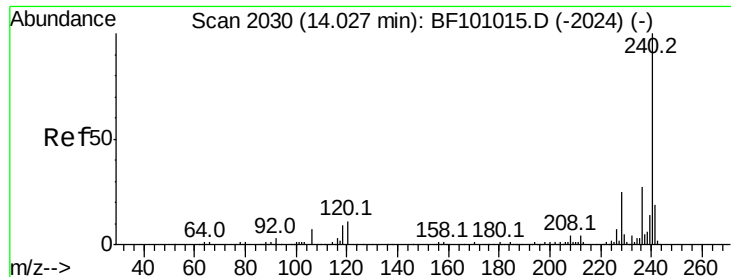
Tot Ion:178 Resp: 50476
 Ion Ratio Lower Upper
 178 100
 176 17.6 15.4 23.2
 179 15.0 12.6 19.0



#74
 Fluoranthene
 Concen: 34.743 ng
 RT: 12.59 min Scan# 1785
 Delta R.T. 0.02 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Tgt Ion:202 Resp: 225148
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 34.1
 203 16.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampled :

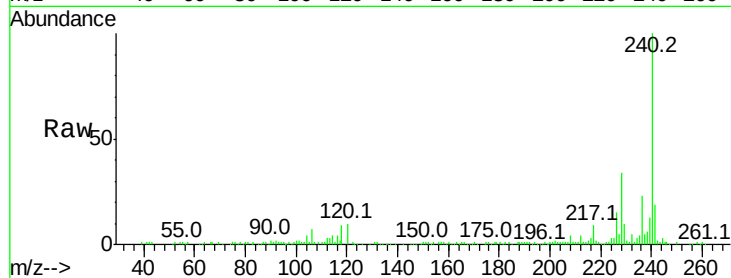
Tot Ion:240 Resp: 83911

Ion Ratio Lower Upper

240 100

120 10.1 9.5 14.3

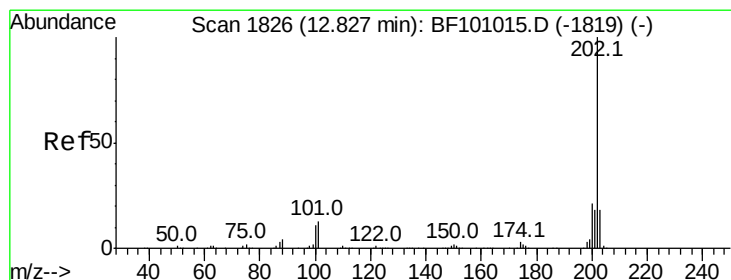
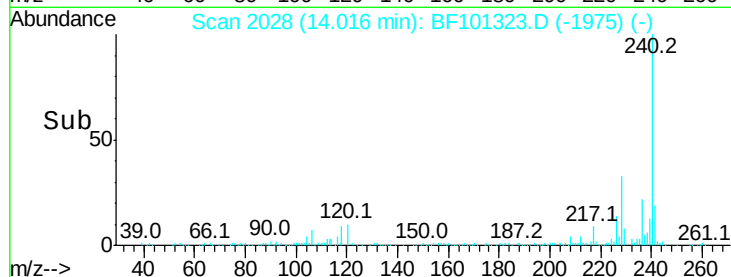
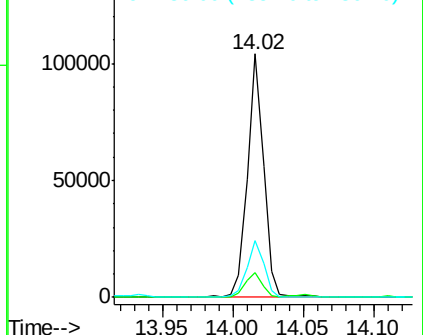
236 23.1 20.7 31.1



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: 45.818 ng

RT: 12.82 min Scan# 1824

Delta R.T. 0.01 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

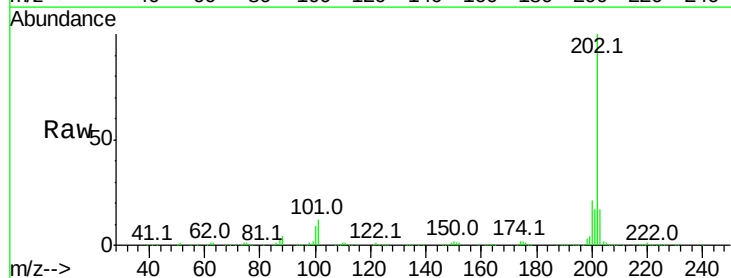
Tgt Ion:202 Resp: 265292

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

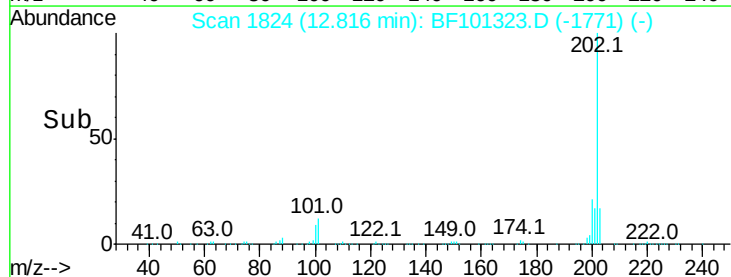
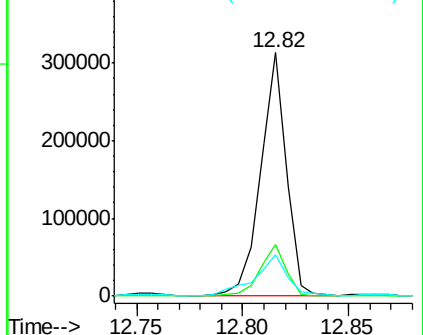
203 17.1 14.3 21.5

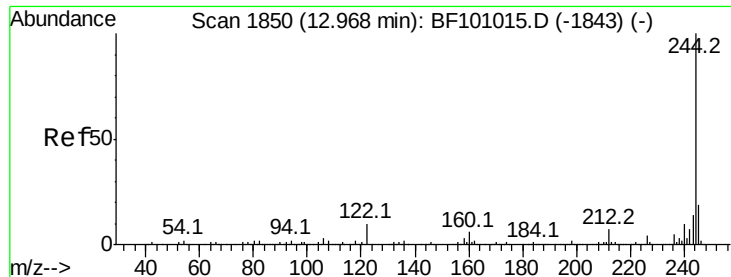


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

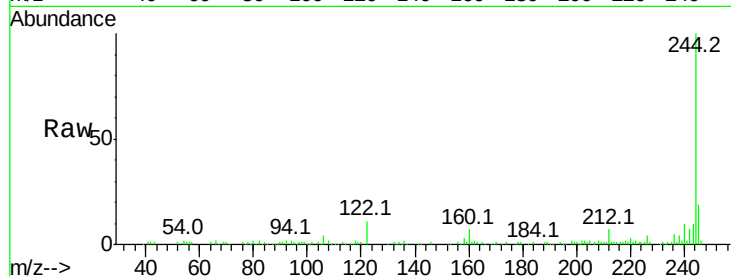




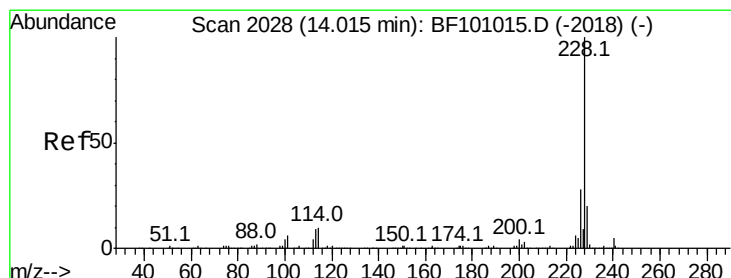
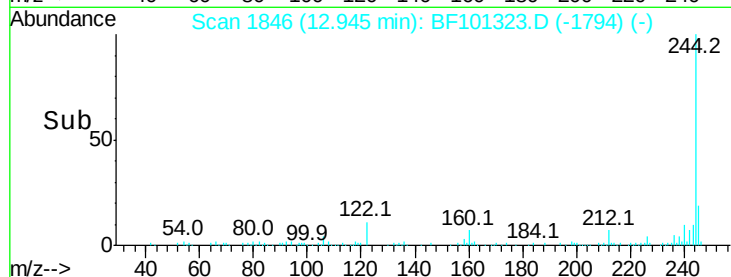
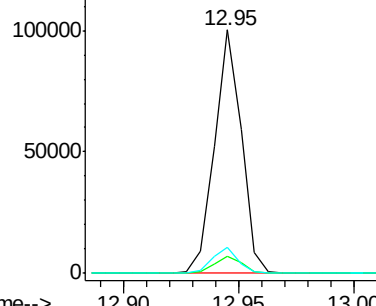
#78
 Terphenyl-d14
 Concen: 21.243 ng
 RT: 12.95 min Scan# 1846
 Delta R.T. 0.01 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 81495
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.7 11.0 16.4#

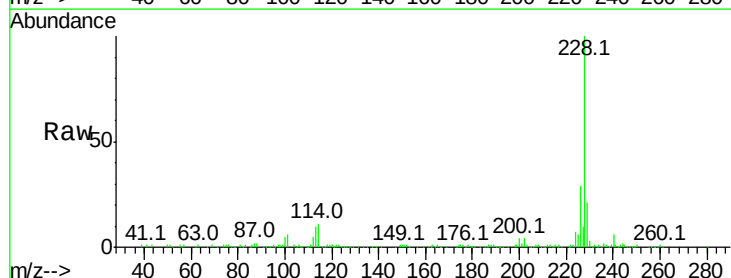


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

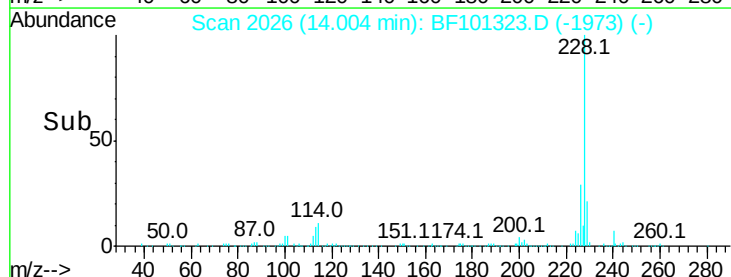
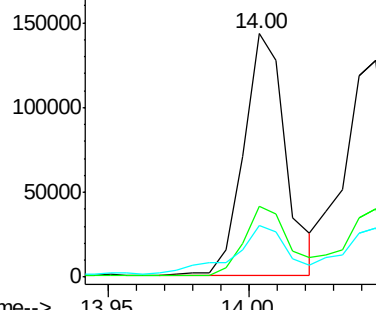


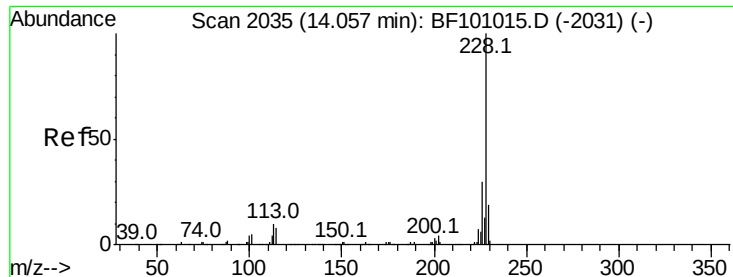
#80
 Benzo(a)anthracene
 Concen: 27.783 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. 0.01 min
 Lab File: BF101323.D
 Acq: 12 Dec 2017 9:10

Tgt Ion:228 Resp: 147197
 Ion Ratio Lower Upper
 228 100
 226 29.1 22.6 33.8
 229 21.4 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: 26.666 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

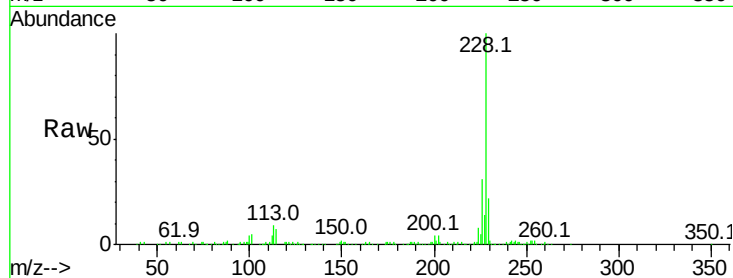
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 131206

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	22.5	16.2	24.4

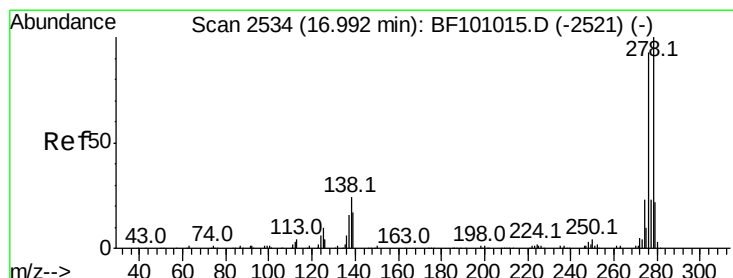
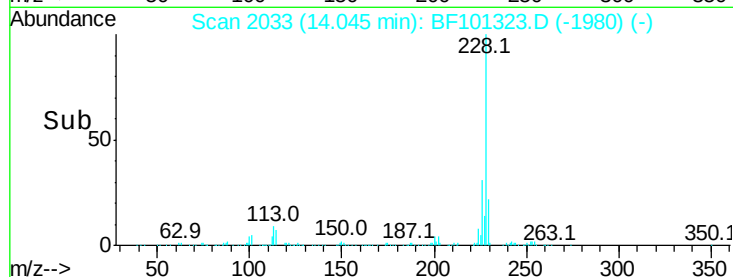
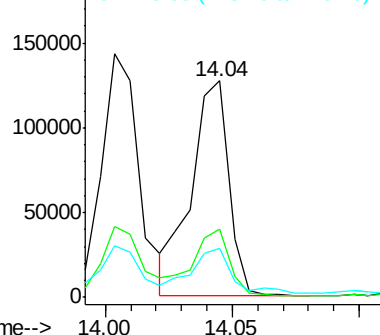


Abundance

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: 14.460 ng

RT: 16.99 min Scan# 2534

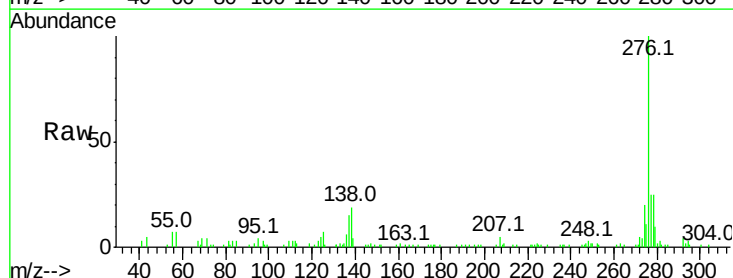
Delta R.T. 0.05 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Tgt Ion:276 Resp: 63255

Ion	Ratio	Lower	Upper
276	100		
138	22.9	25.0	37.6#
277	22.9	20.1	30.1

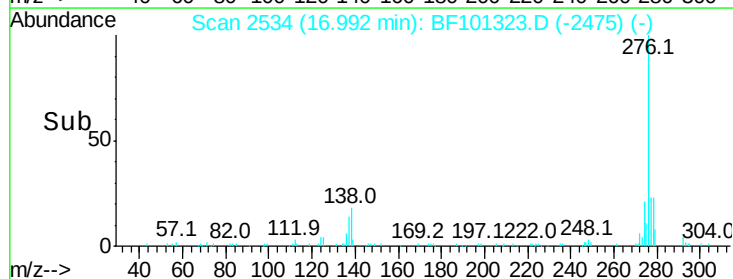
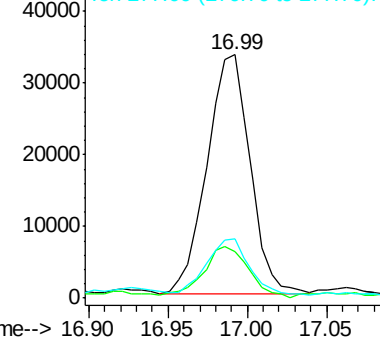


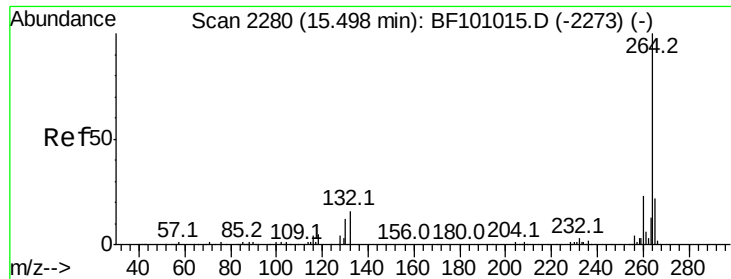
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.03 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampleId :

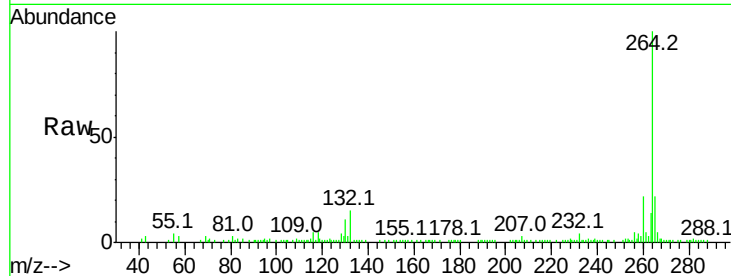
Tot Ion:264 Resp: 67933

Ion Ratio Lower Upper

264 100

260 22.1 19.2 28.8

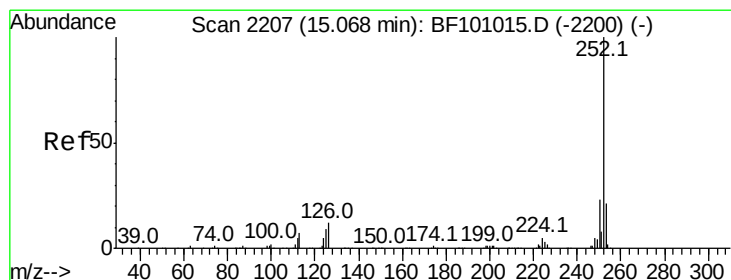
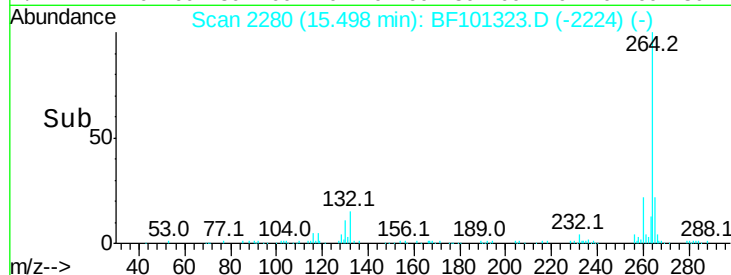
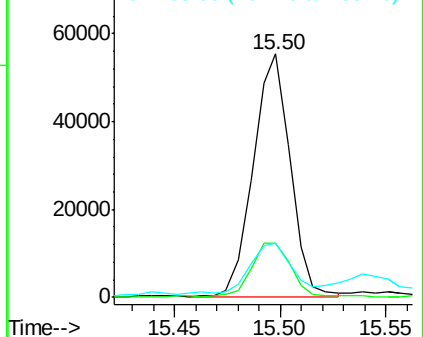
265 22.3 17.5 26.3



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: 47.836 ng

RT: 15.06 min Scan# 2206

Delta R.T. 0.02 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

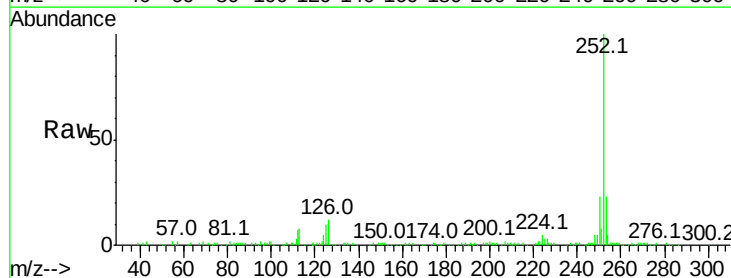
Tgt Ion:252 Resp: 194644

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

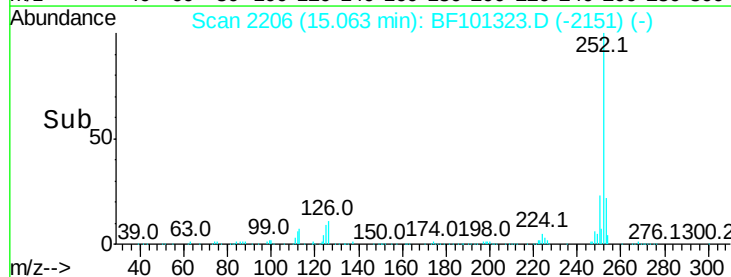
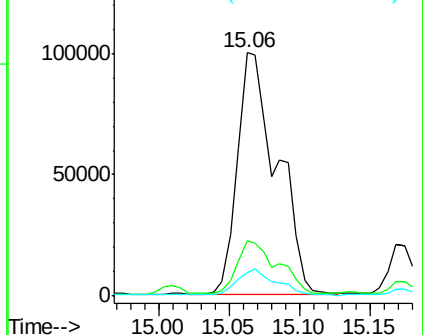
125 9.8 9.0 13.6

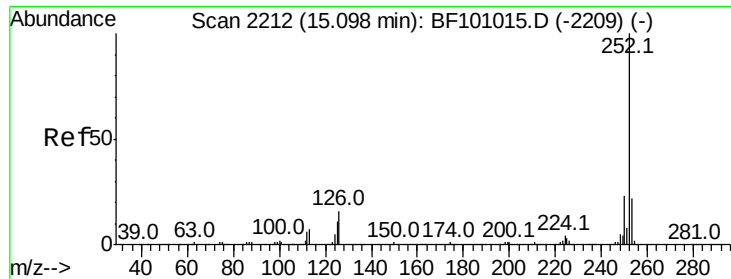


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

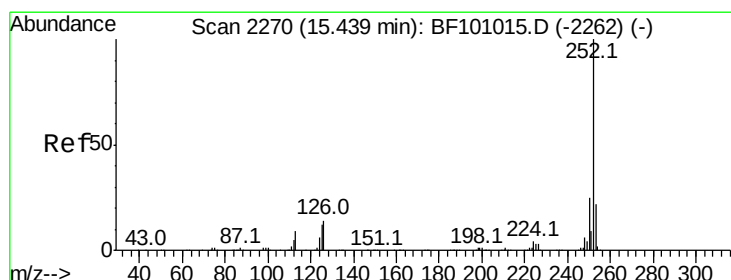
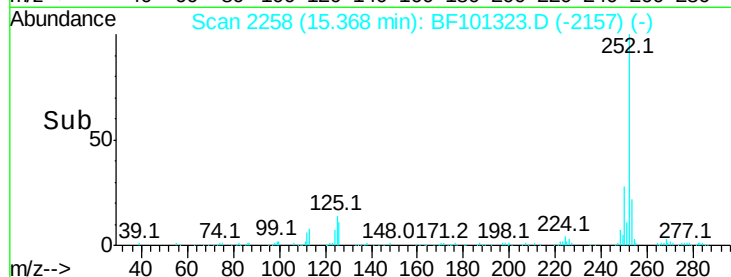
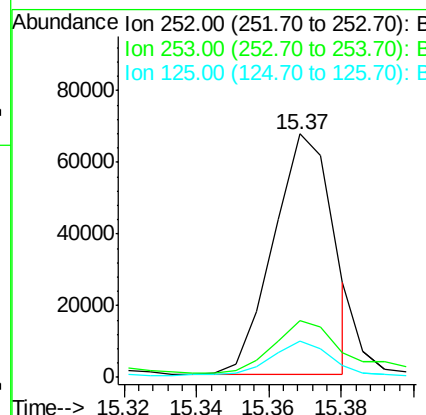
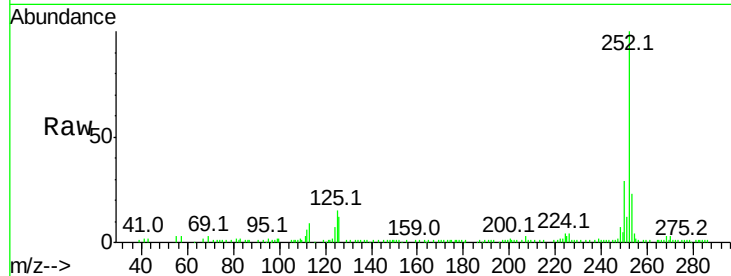




#88
Benzo(k)fluoranthene
Concen: 19.237 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.29 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

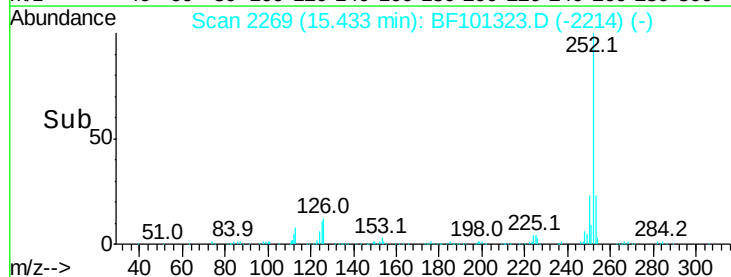
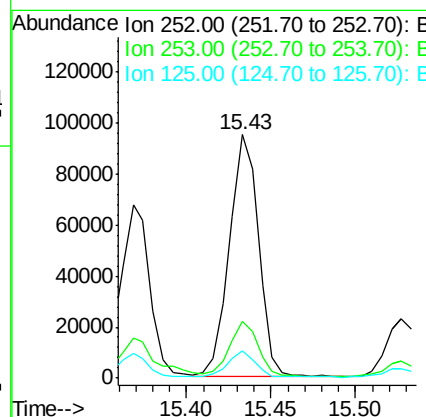
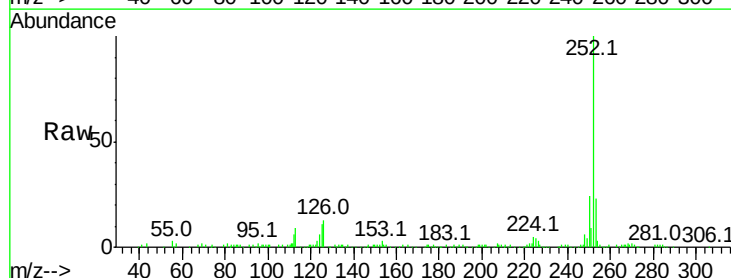
Instrument :
BNA_F
ClientSampleId :

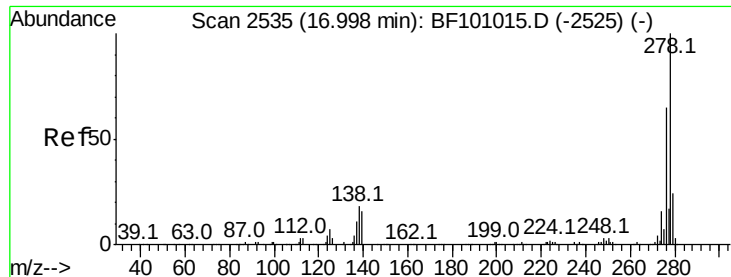
Tot Ion:252 Resp: 77120
Ion Ratio Lower Upper
252 100
253 23.2 17.9 26.9
125 14.6 10.2 15.2



#89
Benzo(a)pyrene
Concen: 30.794 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.02 min
Lab File: BF101323.D
Acq: 12 Dec 2017 9:10

Tgt Ion:252 Resp: 113915
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 11.2 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.711 ng

RT: 17.16 min Scan# 2563

Delta R.T. 0.21 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

Instrument :

BNA_F

ClientSampled :

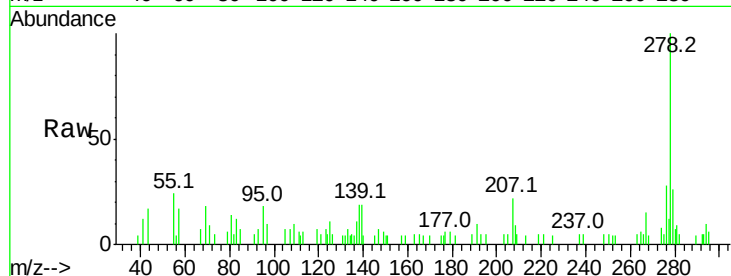
Tot Ion:278 Resp: 15364

Ion Ratio Lower Upper

278 100

139 23.5 15.9 23.9

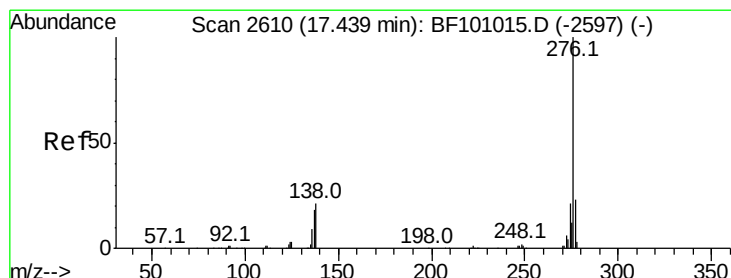
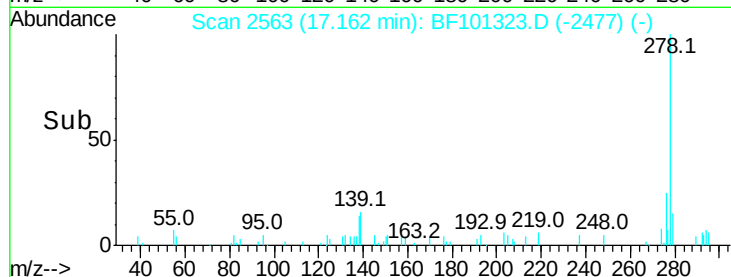
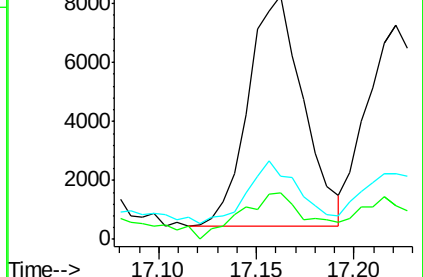
279 26.1 19.0 28.4



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(g,h,i)perylene

Concen: 20.944 ng

RT: 17.44 min Scan# 2611

Delta R.T. 0.05 min

Lab File: BF101323.D

Acq: 12 Dec 2017 9:10

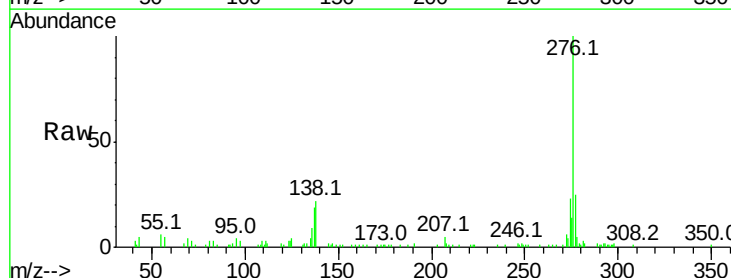
Tgt Ion:276 Resp: 64369

Ion Ratio Lower Upper

276 100

277 24.6 17.9 26.9

138 21.7 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

