

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031819\
 Data File : BF113096.D
 Acq On : 18 Mar 2019 17:54
 Operator : JU/SJ
 Sample : K1697-11 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-031519-B

Quant Time: Mar 19 04:50:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	144584	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	626687	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	269025	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	481610	20.00	ng	0.00
76) Chrysene-d12	13.87	240	450829	20.00	ng	0.00
87) Perylene-d12	15.28	264	436759	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	197420	21.24	ng	0.00
7) Phenol-d6	6.37	99	281724	24.13	ng	0.00
23) Nitrobenzene-d5	7.29	82	172581	16.48	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	71207	24.93	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	352342	16.91	ng	-0.01
79) Terphenyl-d14	12.82	244	320280	13.77	ng	0.00

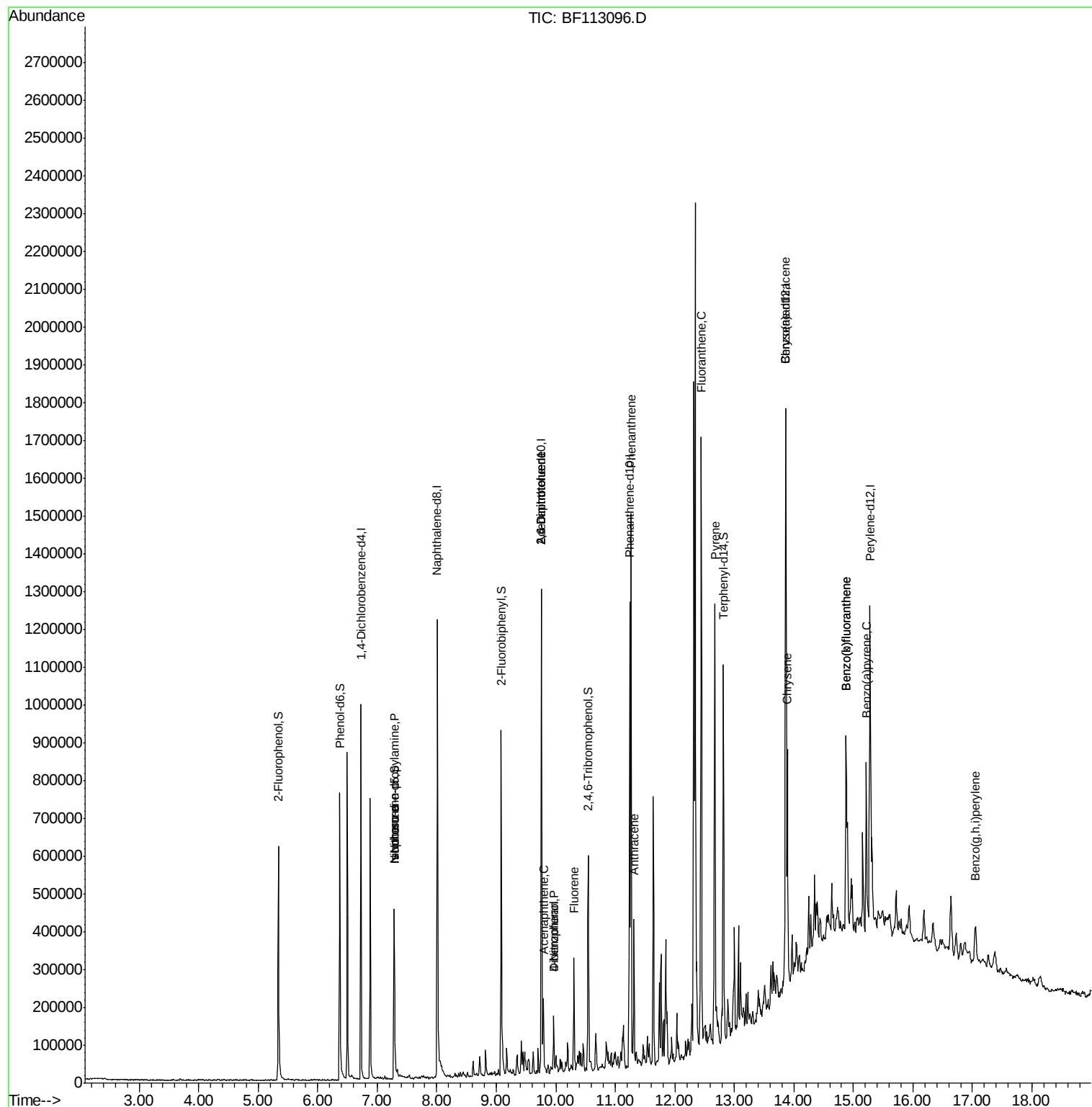
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	21433	2.898	ng	# 76
25) Isophorone	7.29	82	172579	7.649	ng	# 66
51) 2,6-Dinitrotoluene	9.76	165	35589	8.616	ng	# 18
52) Acenaphthene	9.79	154	41475	2.438	ng	99
55) Dibenzofuran	9.96	168	53433	2.161	ng	# 98
56) 4-Nitrophenol	9.96	139	19313	4.721	ng	# 9
57) 2,4-Dinitrotoluene	9.76	165	35589	6.931	ng	# 18
58) Fluorene	10.30	166	84380	4.809	ng	97
71) Phenanthrene	11.26	178	546549	22.809	ng	98
72) Anthracene	11.32	178	175590	7.000	ng	97
75) Fluoranthene	12.44	202	620180	24.157	ng	96
78) Pyrene	12.67	202	532220	14.004	ng	99
81) Benzo(a)anthracene	13.86	228	320407	10.254	ng	98
83) Chrysene	13.89	228	246513	8.054	ng	97
88) Benzo(b)fluoranthene	14.87	252	397918	14.085	ng	99
89) Benzo(k)fluoranthene	14.87	252	397918	15.550	ng	99
90) Benzo(a)pyrene	15.22	252	209382	8.379	ng	98
92) Benzo(g,h,i)perylene	17.05	276	82127	3.836	ng	95

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

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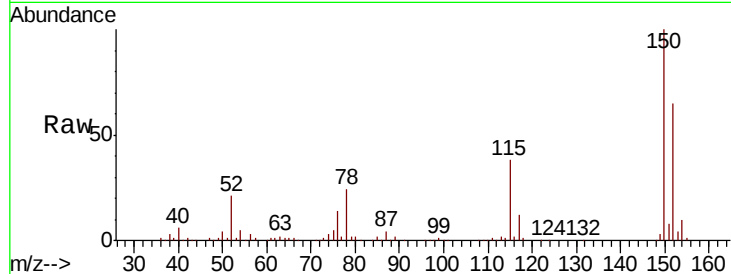


#1

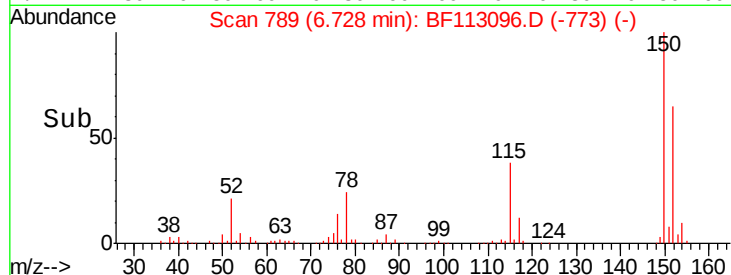
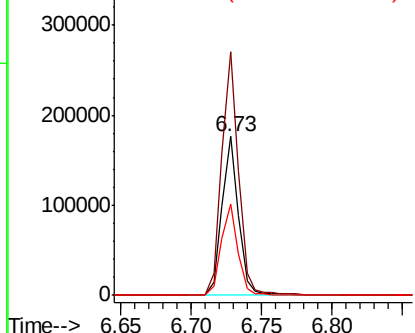
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Instrument :
BNA_F
ClientSampleId :
SU-01-031519-B

Tgt Ion:152 Resp: 144584
Ion Ratio Lower Upper
152 100
150 153.1 124.2 186.2
115 57.5 48.2 72.4



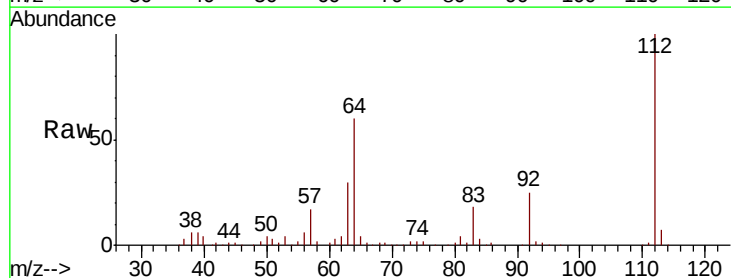
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



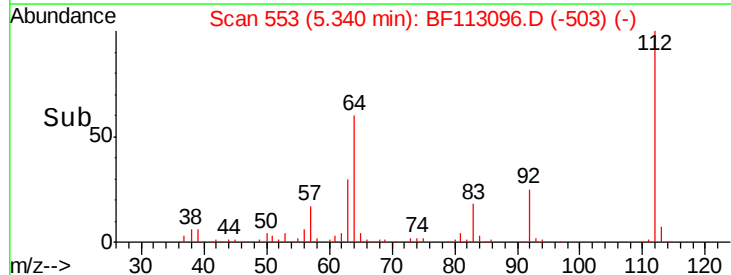
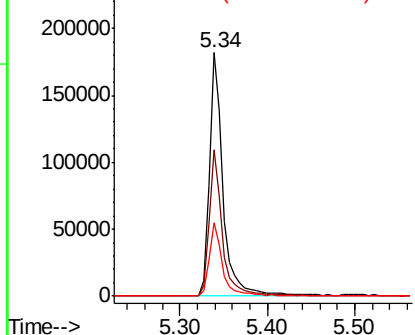
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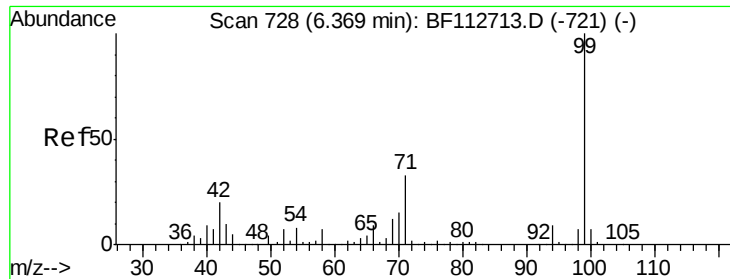
2-Fluorophenol
Concen: 21.240 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion:112 Resp: 197420
Ion Ratio Lower Upper
112 100
64 59.9 47.6 71.4
63 30.1 24.4 36.6



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: 24.129 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Instrument :

BNA_F

ClientSampleId :

SU-01-031519-B

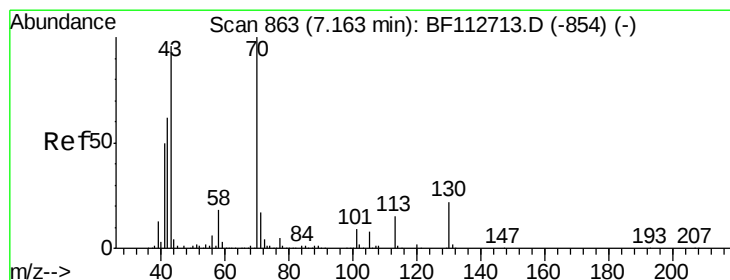
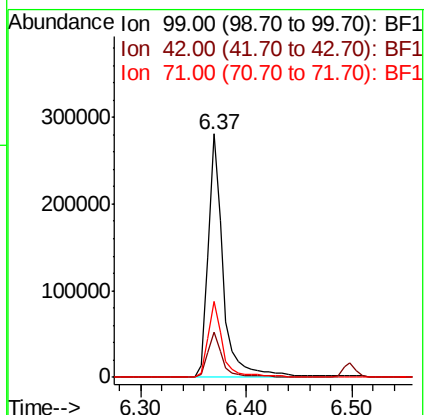
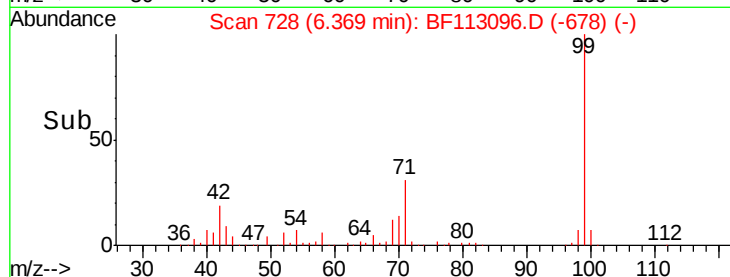
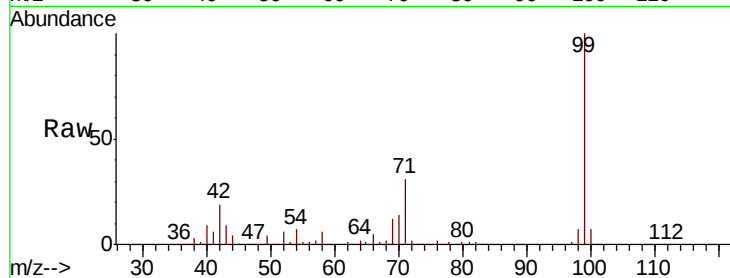
Tgt Ion: 99 Resp: 281724

Ion Ratio Lower Upper

99 100

42 18.6 16.3 24.5

71 30.9 26.2 39.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.898 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Tgt Ion: 70 Resp: 21433

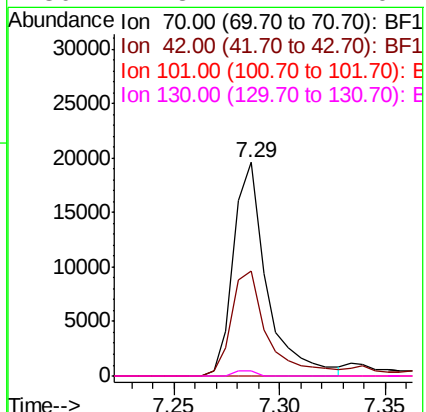
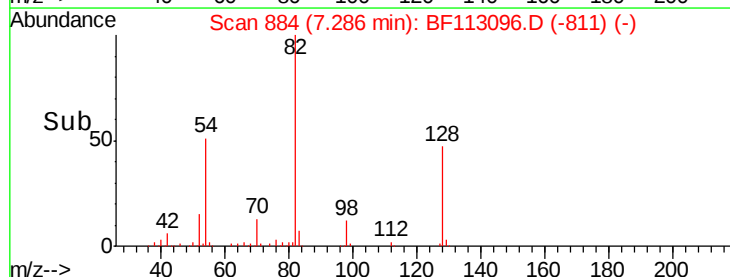
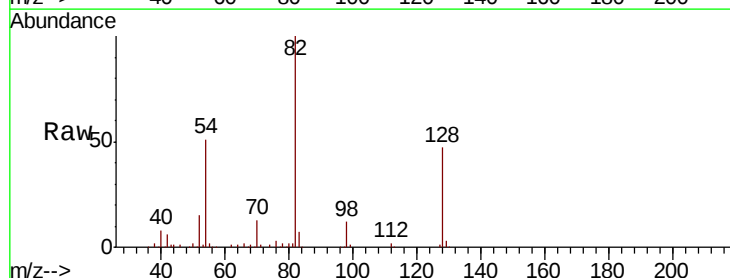
Ion Ratio Lower Upper

70 100

42 49.2 49.9 74.9#

101 0.0 7.4 11.2#

130 2.3 17.4 26.2#

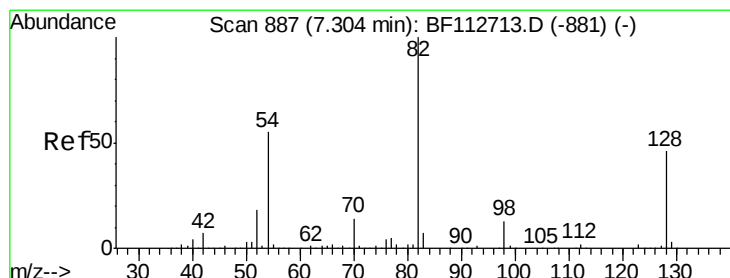
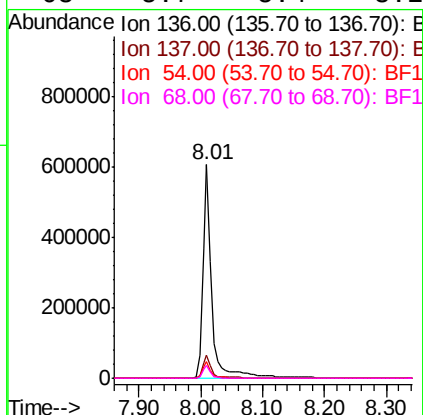
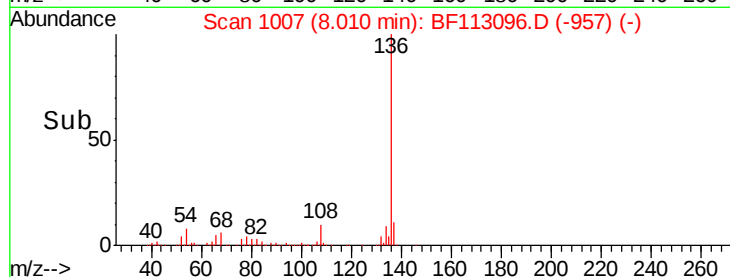
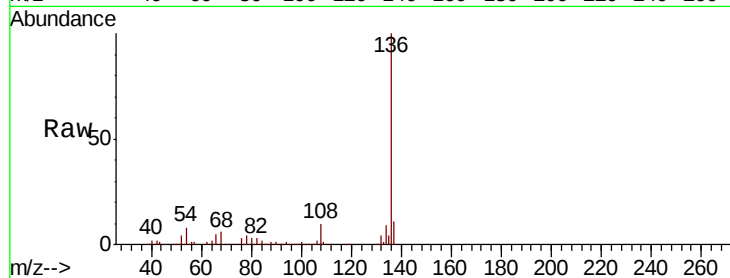




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

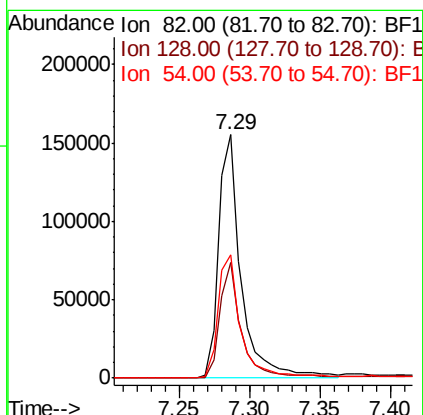
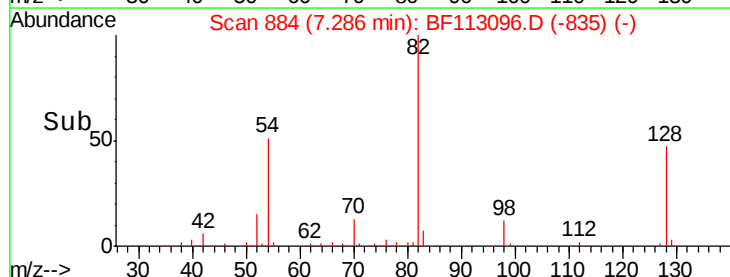
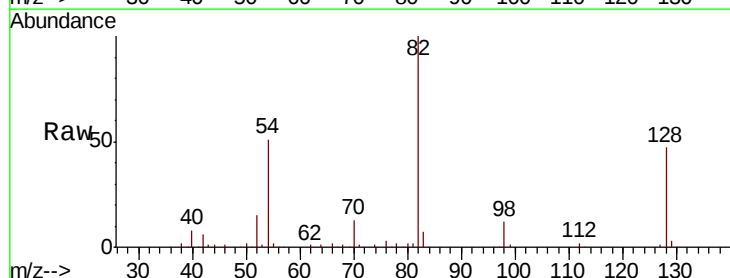
Instrument :
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SU-01-031519-B

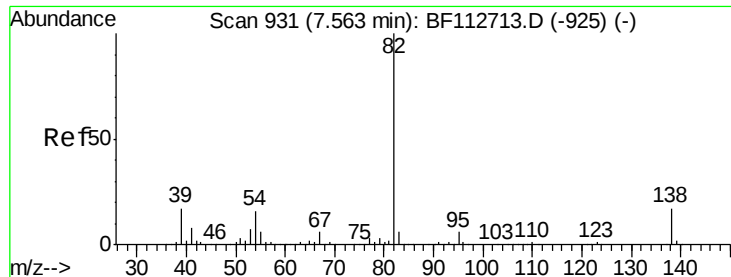
Tgt Ion:	136	Resp:	626687
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	7.3	10.9
68	5.7	5.4	8.2



#23
Nitrobenzene-d5
Concen: 16.479 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion:	82	Resp:	172581
Ion	Ratio	Lower	Upper
82	100		
128	47.2	36.3	54.5
54	50.8	43.7	65.5





#25

Isophorone

Concen: 7.649 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.27 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Instrument :

BNA_F

ClientSampleId :

SU-01-031519-B

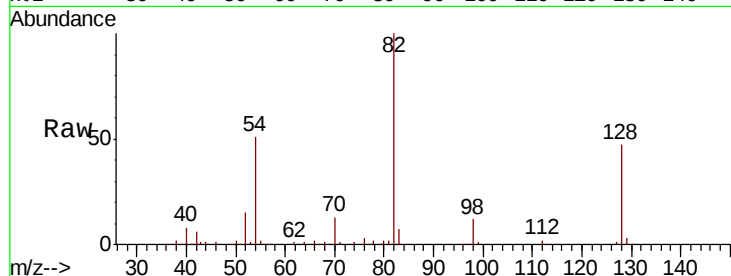
Tgt Ion: 82 Resp: 172579

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

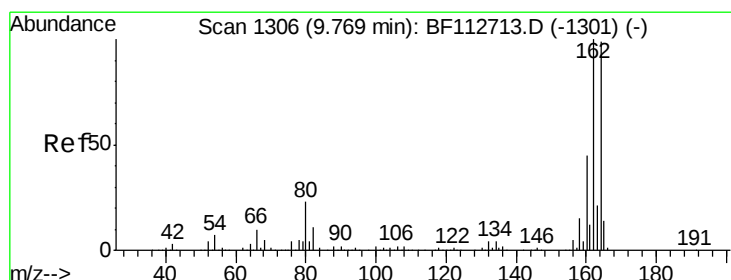
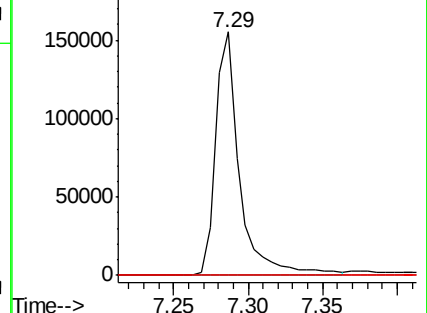
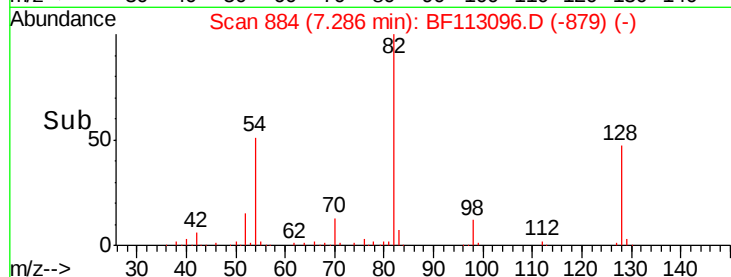
138 0.0 13.8 20.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

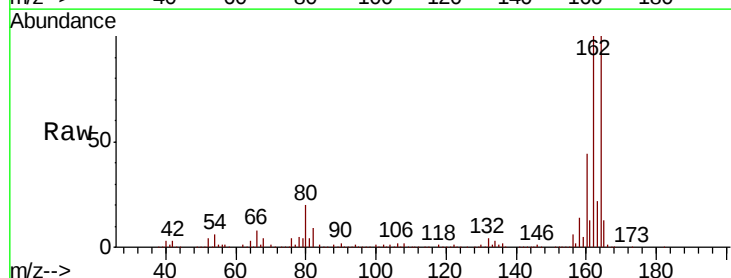
Tgt Ion: 164 Resp: 269025

Ion Ratio Lower Upper

164 100

162 99.5 80.6 120.8

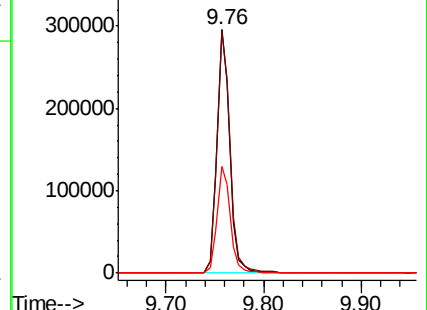
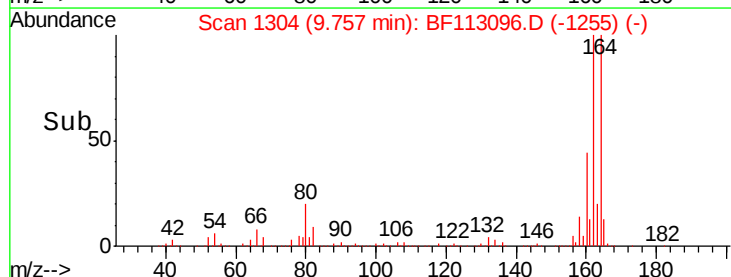
160 44.0 36.0 54.0

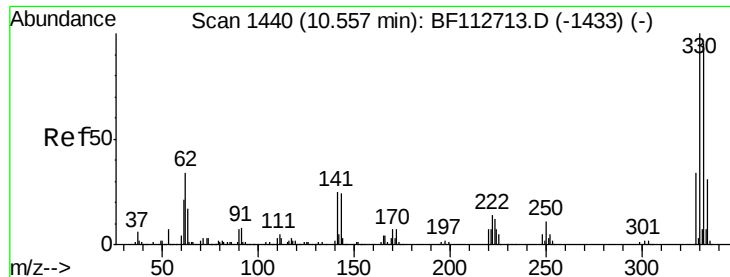


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

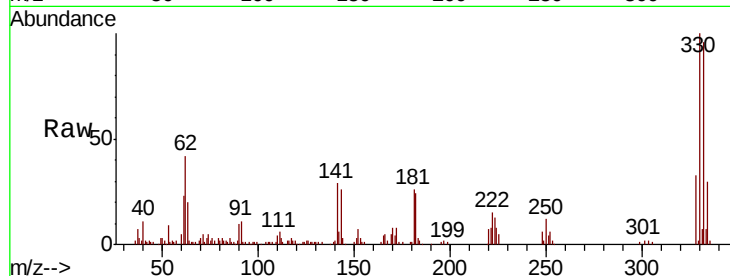




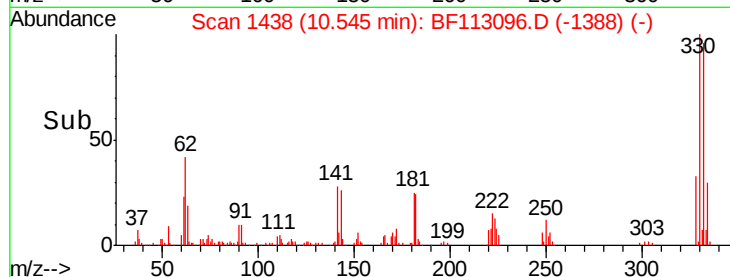
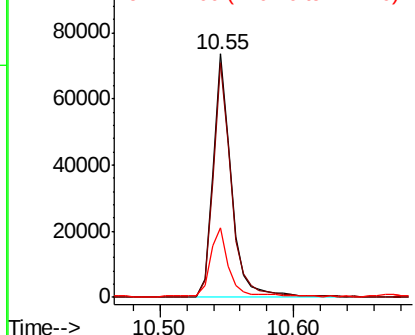
#42
 2,4,6-Tribromophenol
 Concen: 24.932 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-031519-B

Tgt Ion:330 Resp: 71207
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.2 114.4
 141 30.9 27.0 40.6

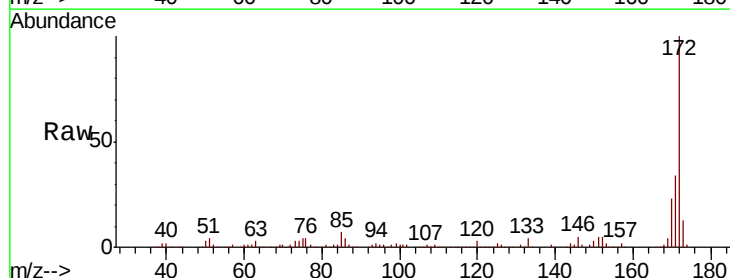


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

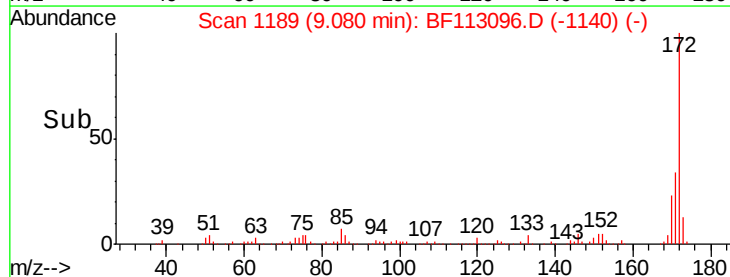
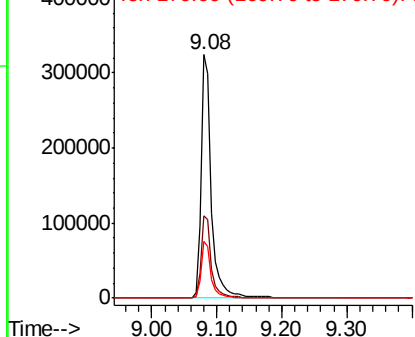


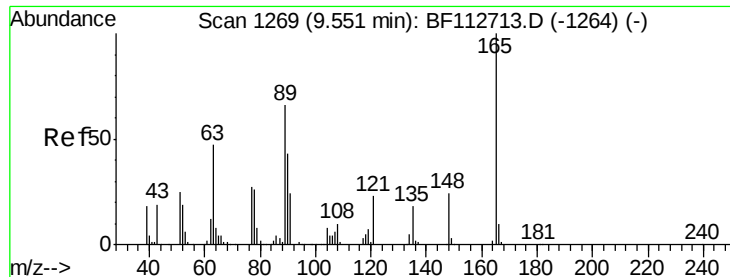
#45
 2-Fluorobiphenyl
 Concen: 16.906 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

Tgt Ion:172 Resp: 352342
 Ion Ratio Lower Upper
 172 100
 171 33.6 29.0 43.4
 170 23.2 20.0 30.0



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

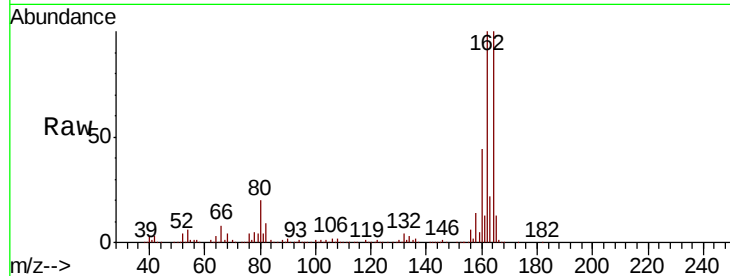




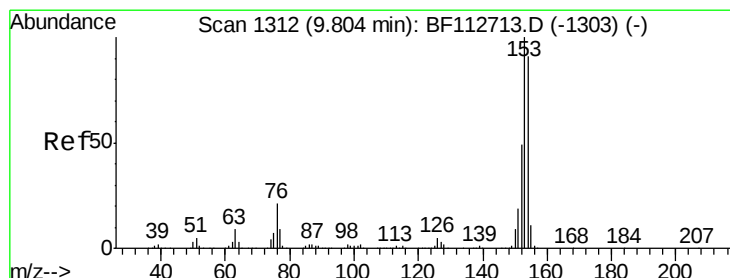
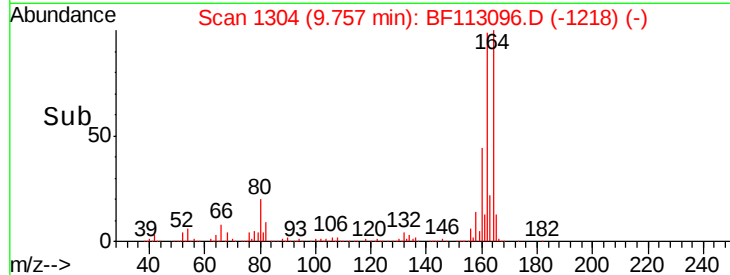
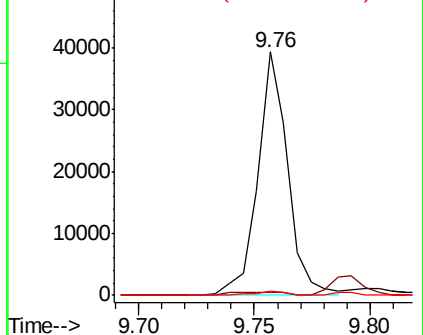
#51
 2,6-Dinitrotoluene
 Concen: 8.616 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.21 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-031519-B

Tgt Ion:165 Resp: 35589
 Ion Ratio Lower Upper
 165 100
 63 1.2 54.1 81.1#
 89 1.6 52.8 79.2#

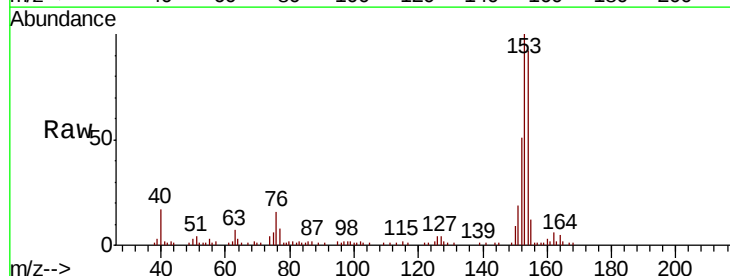


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

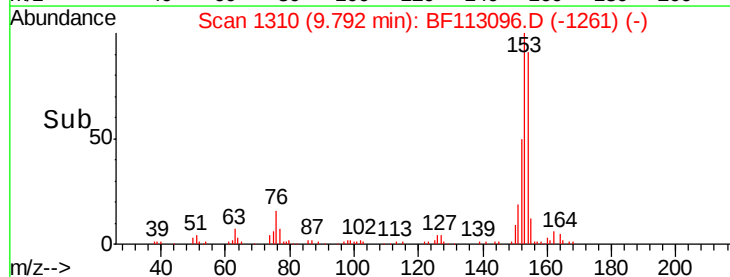
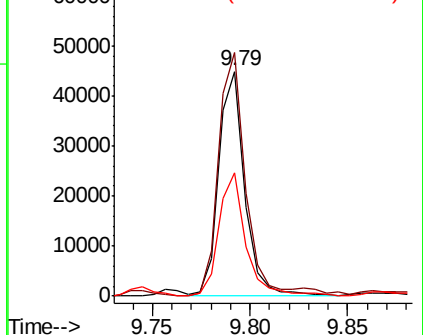


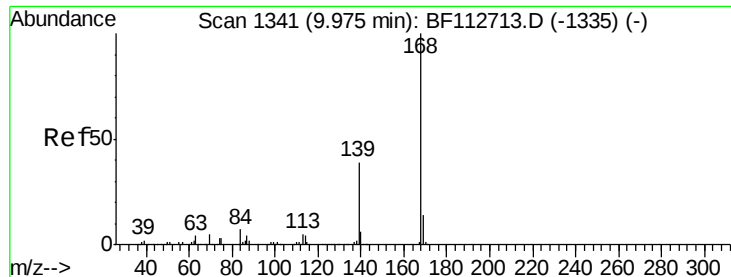
#52
 Acenaphthene
 Concen: 2.438 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.01 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

Tgt Ion:154 Resp: 41475
 Ion Ratio Lower Upper
 154 100
 153 108.5 87.8 131.8
 152 55.0 43.0 64.6



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

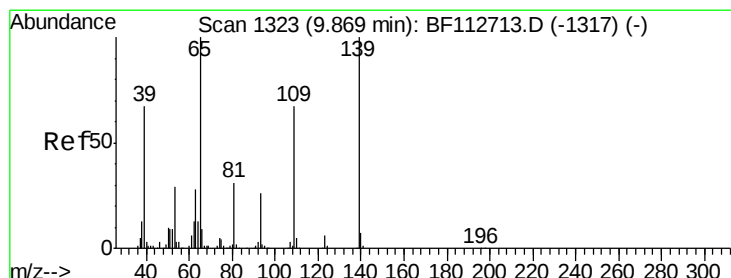
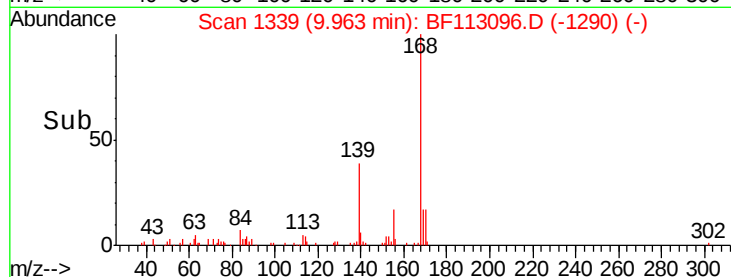
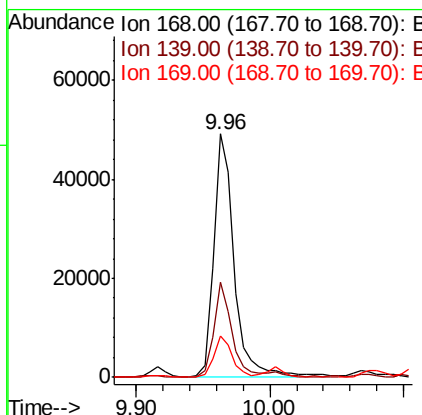
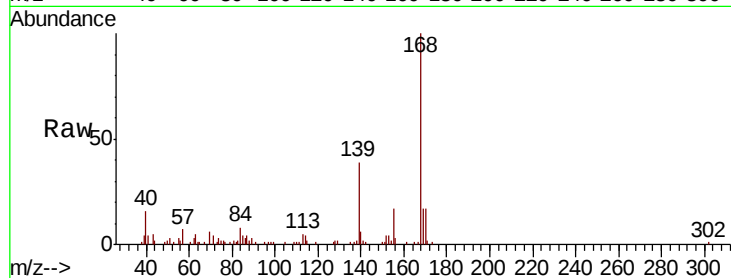




#55
Dibenzofuran
Concen: 2.161 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

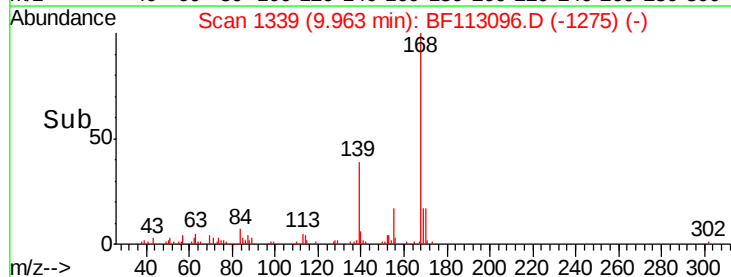
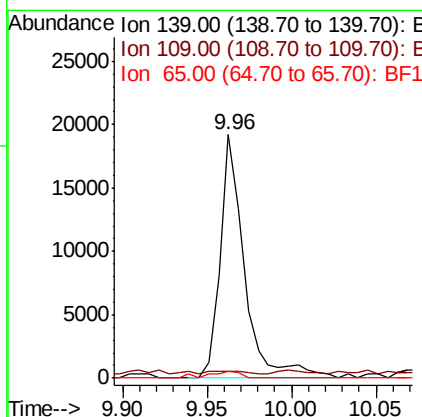
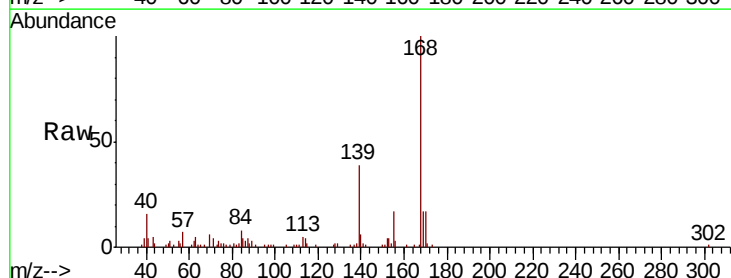
Instrument :
BNA_F
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SU-01-031519-B

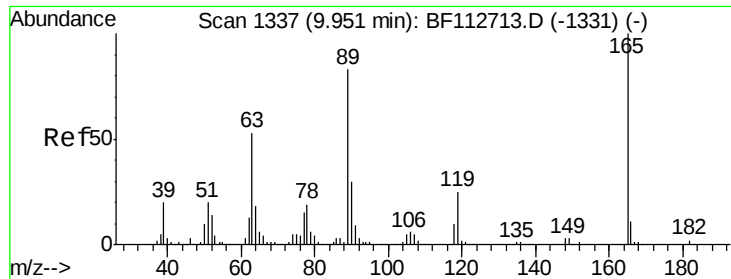
Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.3	46.9
169	16.9	11.3	16.9#



#56
4-Nitrophenol
Concen: 4.721 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.08 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion	Ratio	Lower	Upper
139	100		
109	2.8	46.8	86.8#
65	2.8	80.7	120.7#

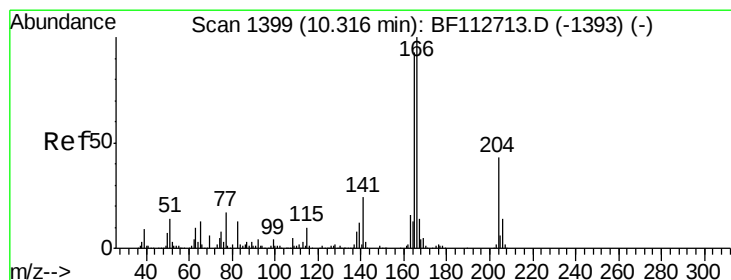
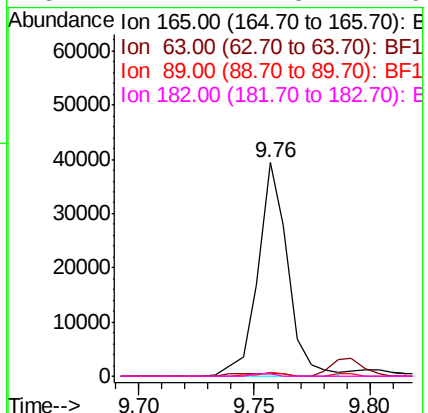
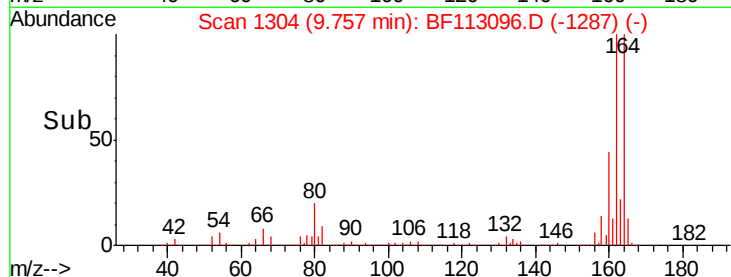
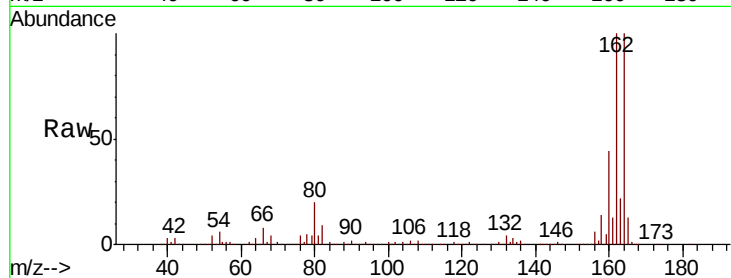




#57
2,4-Dinitrotoluene
Concen: 6.931 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.20 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

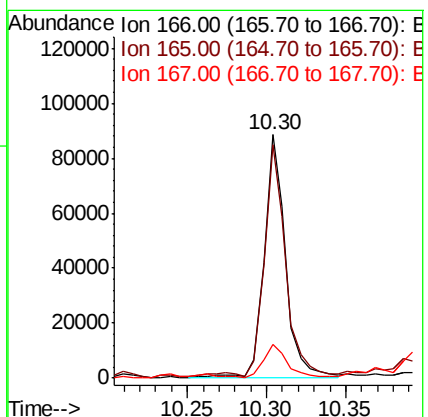
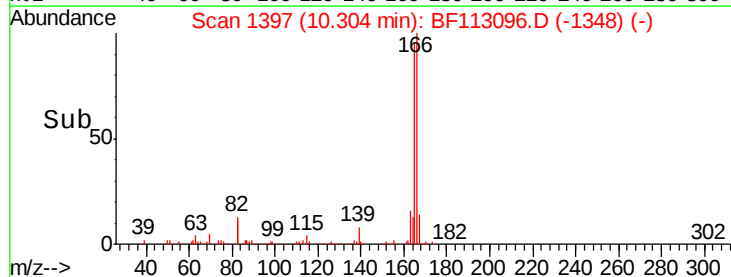
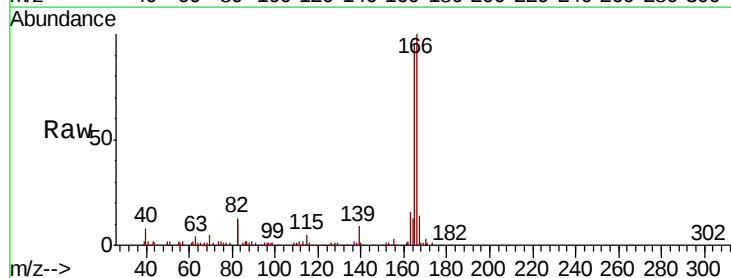
Instrument :
BNA_F
ClientSampleId :
SU-01-031519-B

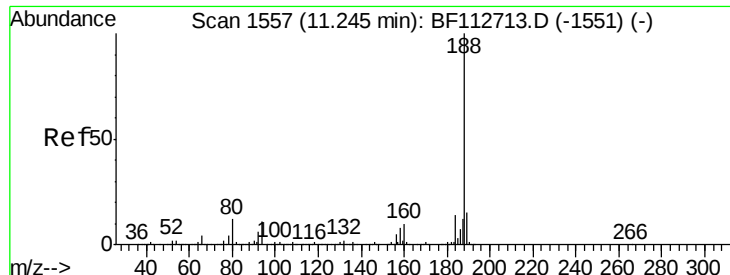
Tgt Ion:	165	Resp:	35589
Ion	Ratio	Lower	Upper
165	100		
63	1.2	42.2	63.2#
89	1.6	66.2	99.4#
182	1.1	1.8	2.6#



#58
Fluorene
Concen: 4.809 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion:	166	Resp:	84380
Ion	Ratio	Lower	Upper
166	100		
165	96.1	74.7	112.1
167	14.0	11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Instrument :

BNA_F

ClientSampleId :

SU-01-031519-B

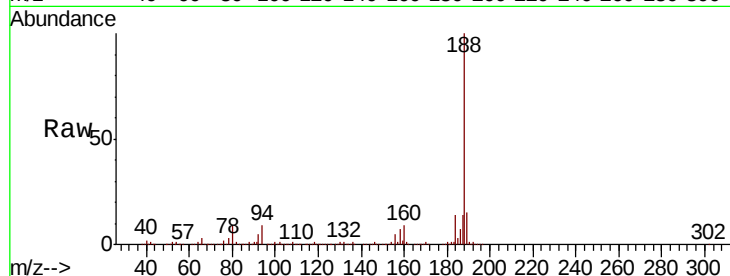
Tgt Ion:188 Resp: 481610

Ion Ratio Lower Upper

188 100

94 8.7 9.0 13.4#

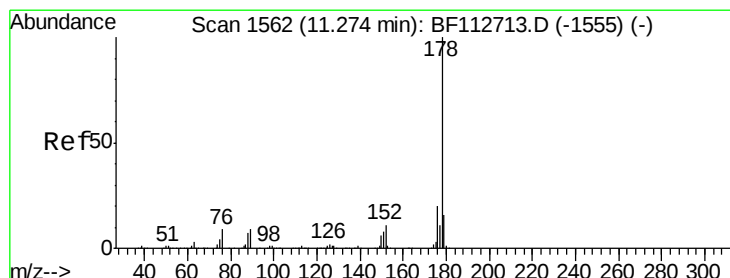
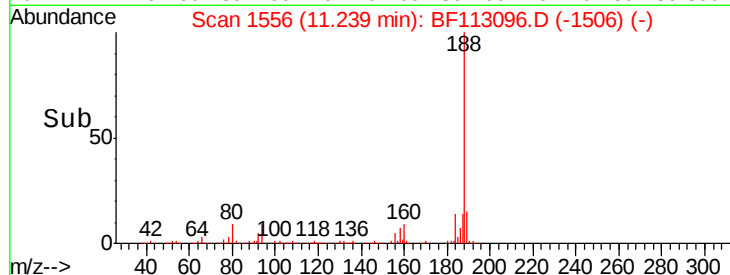
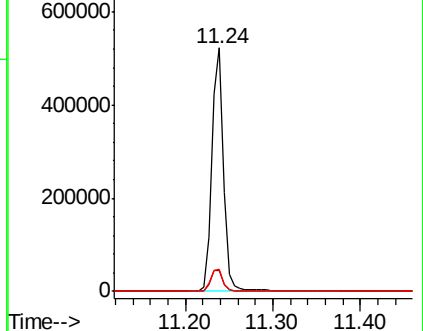
80 8.9 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 22.809 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

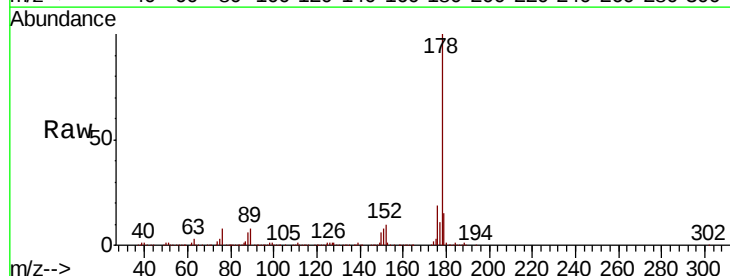
Tgt Ion:178 Resp: 546549

Ion Ratio Lower Upper

178 100

176 19.3 16.3 24.5

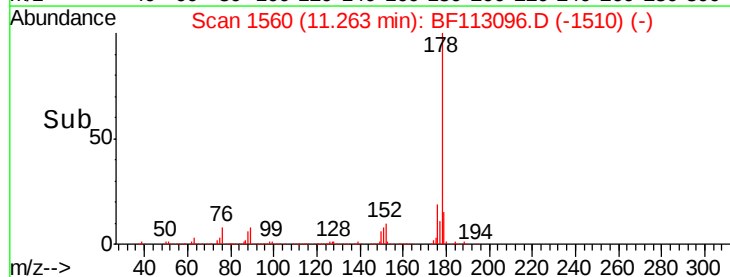
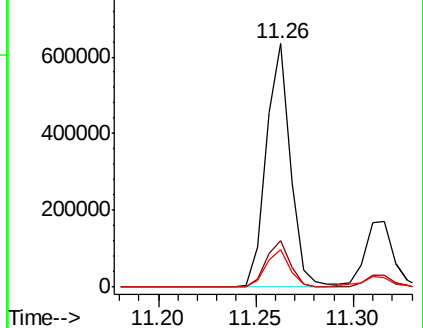
179 15.3 12.7 19.1

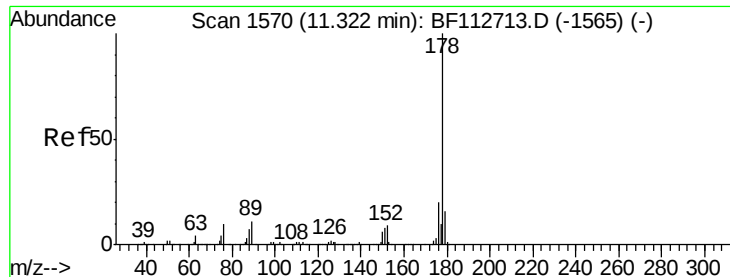


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

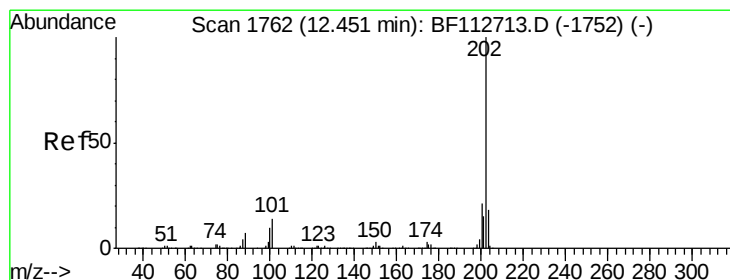
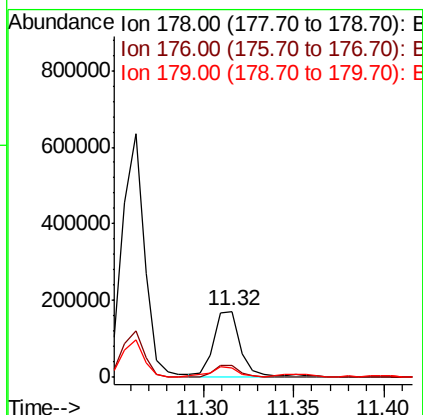
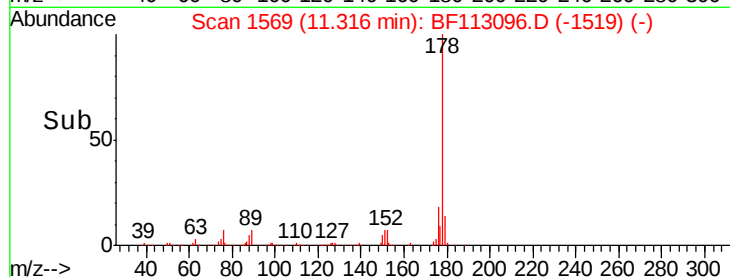
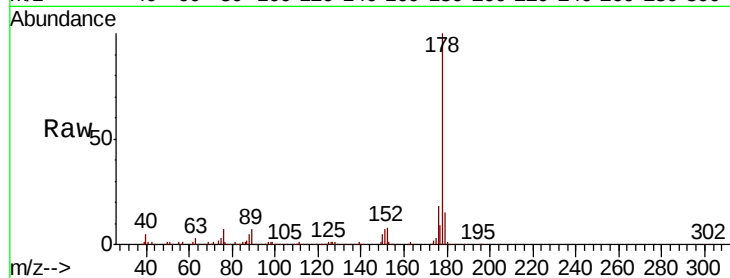




#72
 Anthracene
 Concen: 7.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

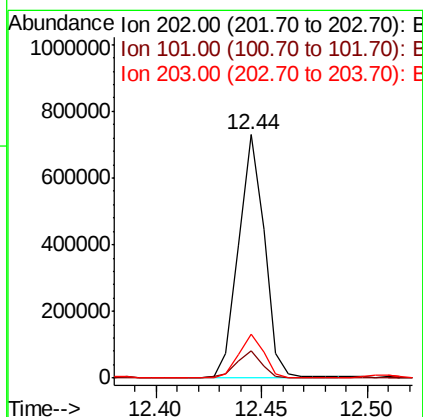
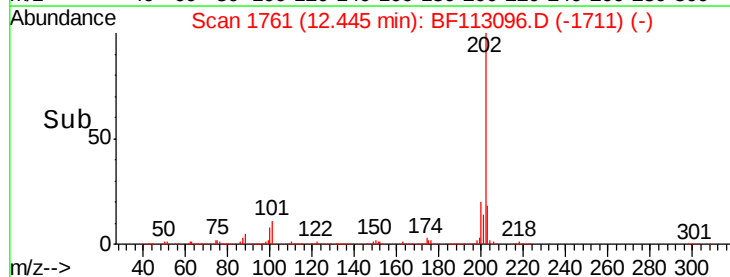
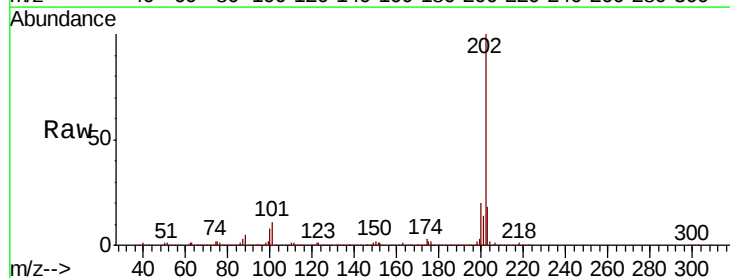
Instrument :
 BNA_F
 ClientSampleId :
 SU-01-031519-B

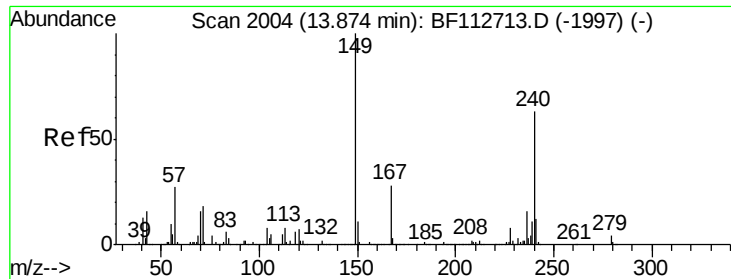
Tgt Ion:178 Resp: 175590
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.8 23.6
 179 14.6 13.0 19.6



#75
 Fluoranthene
 Concen: 24.157 ng
 RT: 12.44 min Scan# 1761
 Delta R.T. -0.01 min
 Lab File: BF113096.D
 Acq: 18 Mar 2019 17:54

Tgt Ion:202 Resp: 620180
 Ion Ratio Lower Upper
 202 100
 101 11.0 0.0 33.8
 203 17.8 0.0 38.4

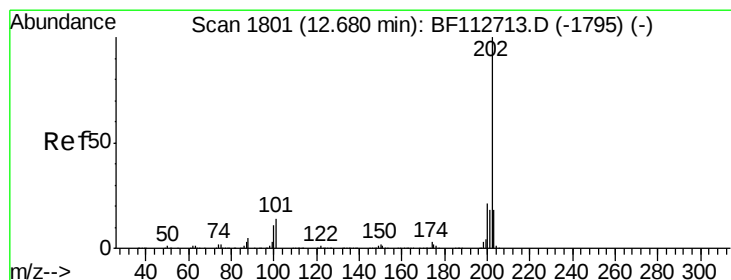
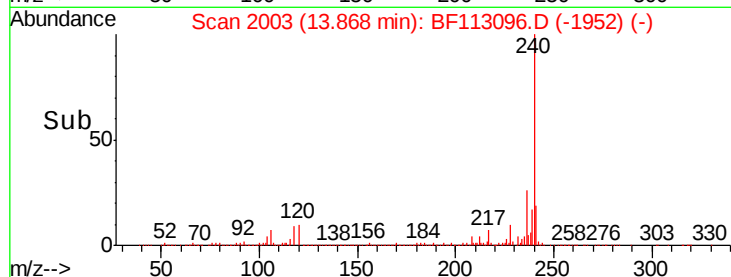
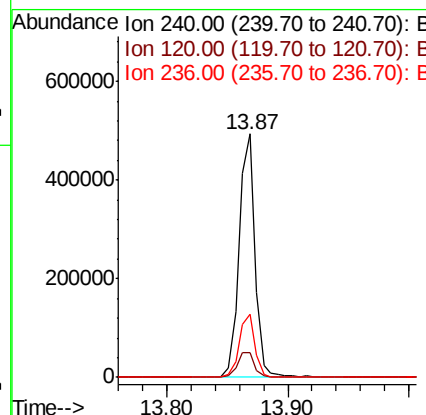
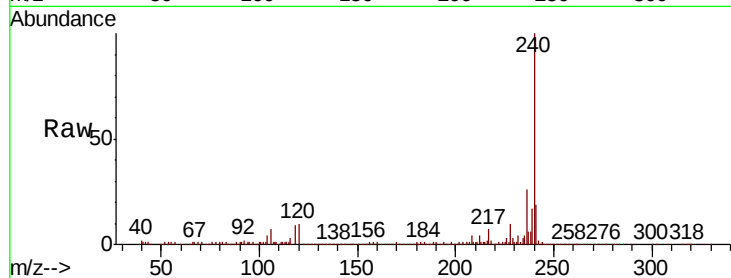




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

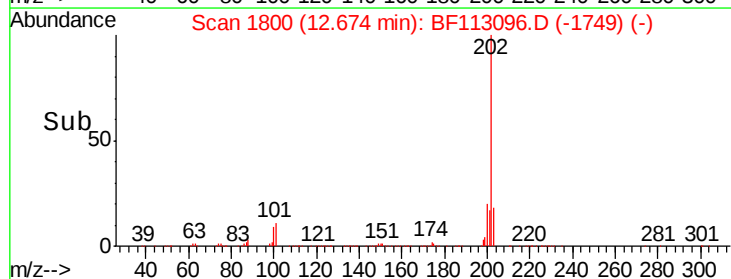
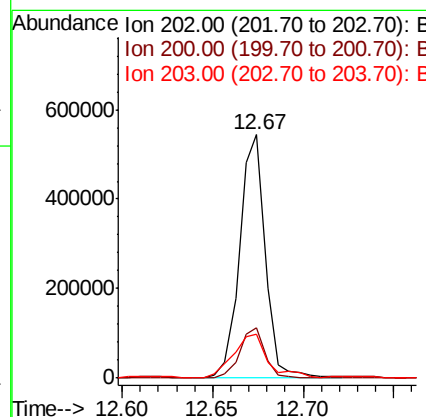
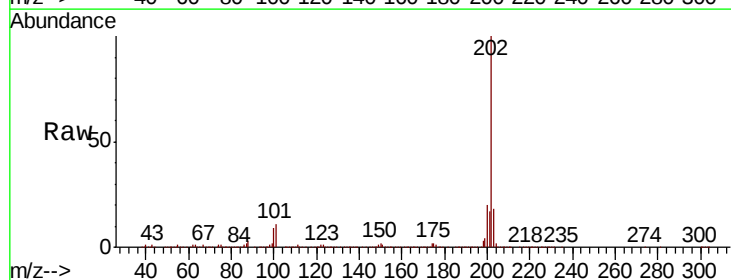
Instrument :
BNA_F
ClientSampleId :
SU-01-031519-B

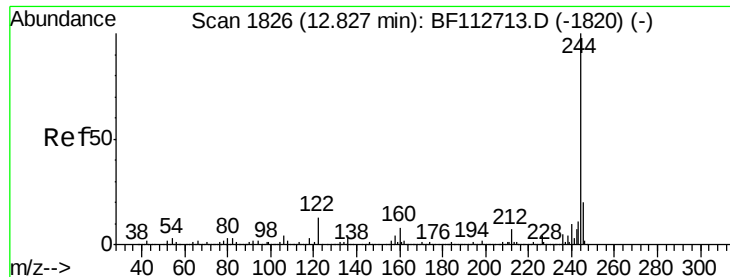
Tgt Ion:240 Resp: 450829
Ion Ratio Lower Upper
240 100
120 9.9 8.9 13.3
236 26.1 20.7 31.1



#78
Pyrene
Concen: 14.004 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion:202 Resp: 532220
Ion Ratio Lower Upper
202 100
200 20.5 17.0 25.4
203 17.9 14.4 21.6





#79

Terphenyl-d14

Concen: 13.772 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Instrument :

BNA_F

ClientSampleId :

SU-01-031519-B

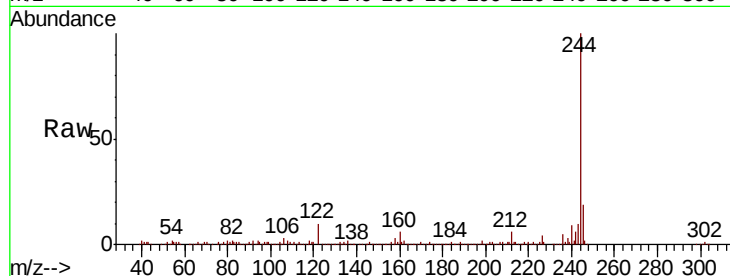
Tgt Ion:244 Resp: 320280

Ion Ratio Lower Upper

244 100

212 6.1 5.6 8.4

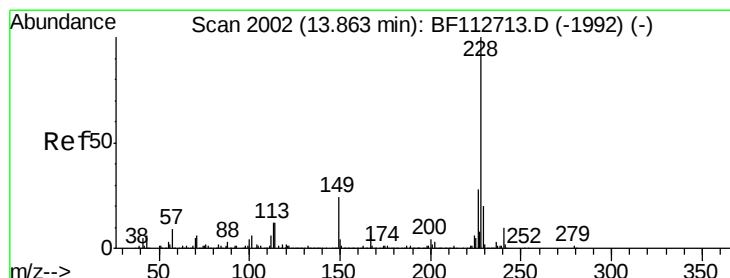
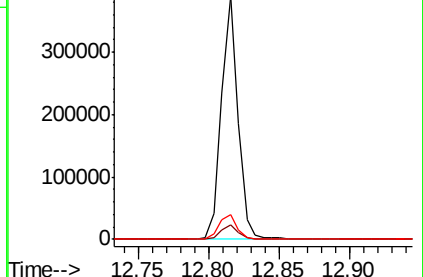
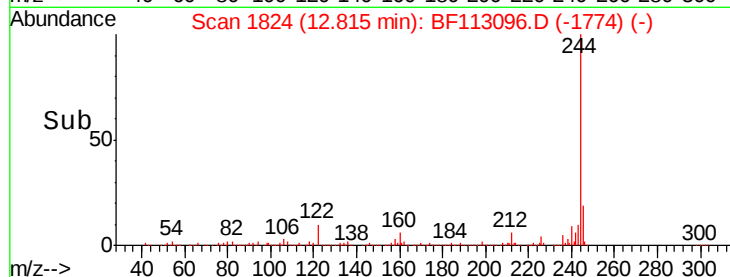
122 10.3 10.5 15.7#



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



#81

Benzo(a)anthracene

Concen: 10.254 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

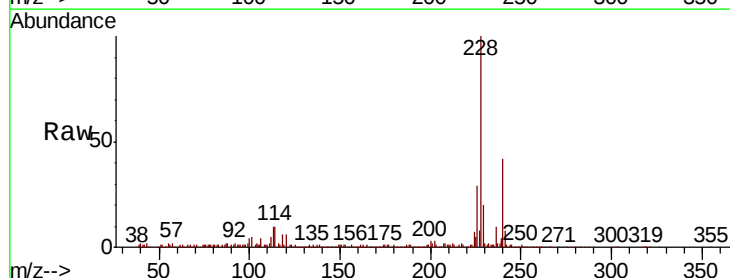
Tgt Ion:228 Resp: 320407

Ion Ratio Lower Upper

228 100

226 29.0 22.2 33.4

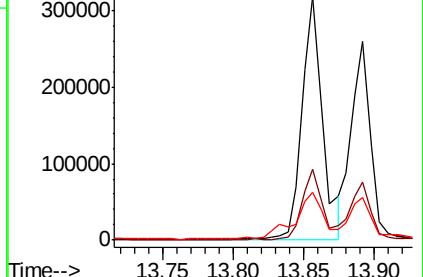
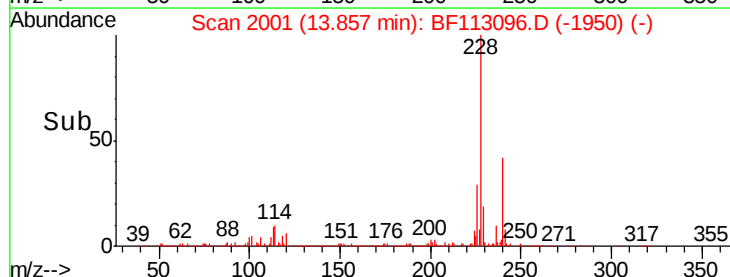
229 19.7 16.0 24.0

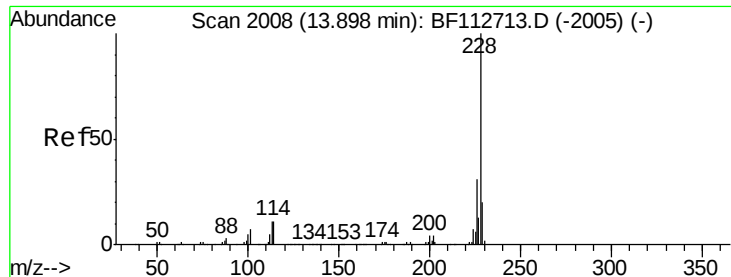


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

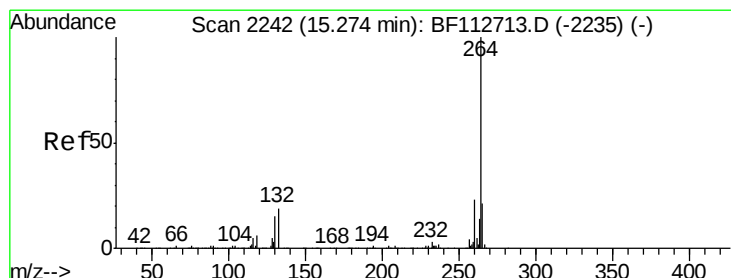
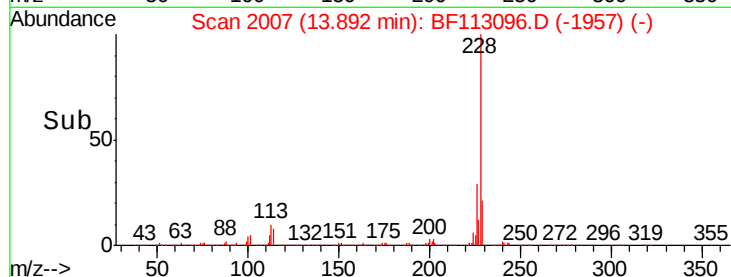
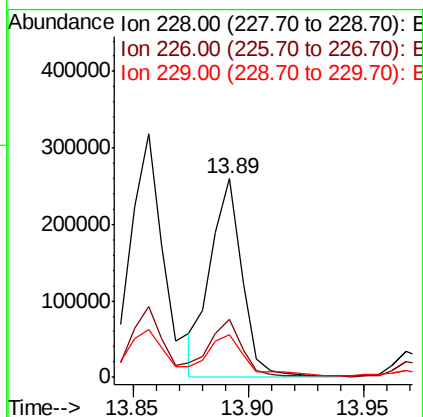
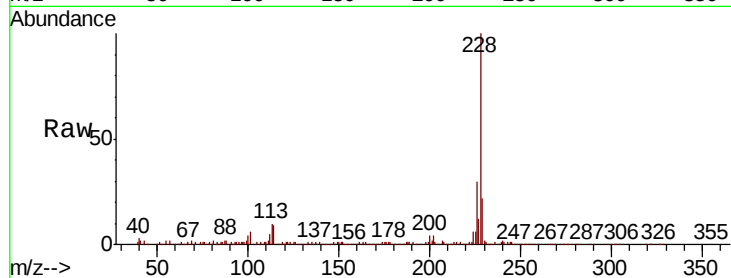




#83
Chrysene
Concen: 8.054 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

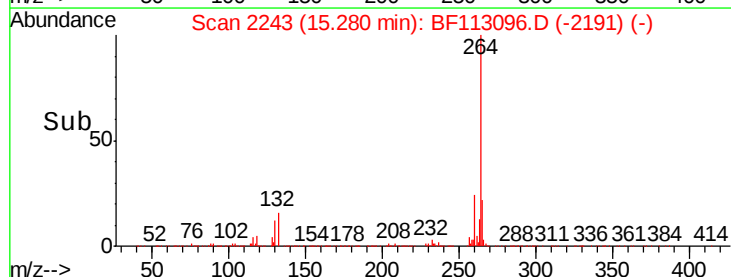
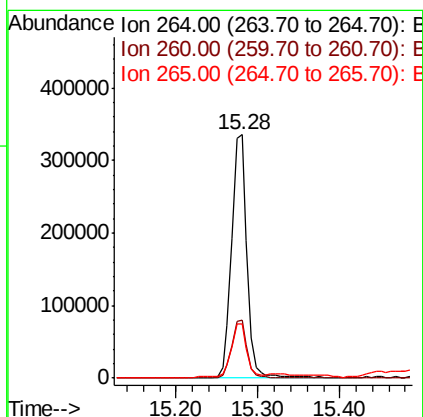
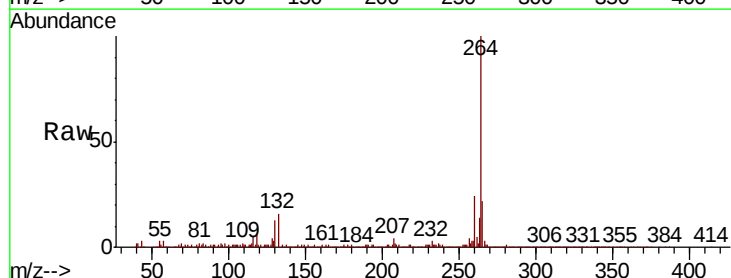
Instrument :
BNA_F
ClientSampleId :
SU-01-031519-B

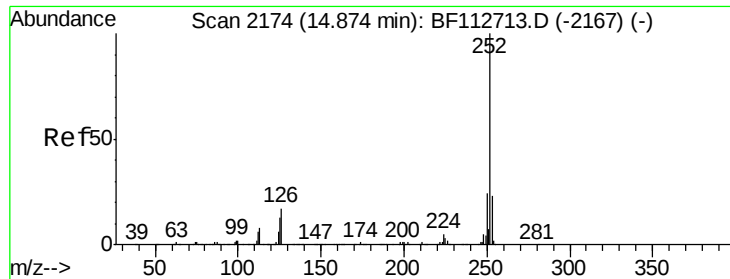
Tgt Ion:228 Resp: 246513
Ion Ratio Lower Upper
228 100
226 29.5 24.9 37.3
229 21.8 16.3 24.5



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion:264 Resp: 436759
Ion Ratio Lower Upper
264 100
260 24.0 18.7 28.1
265 22.1 17.2 25.8

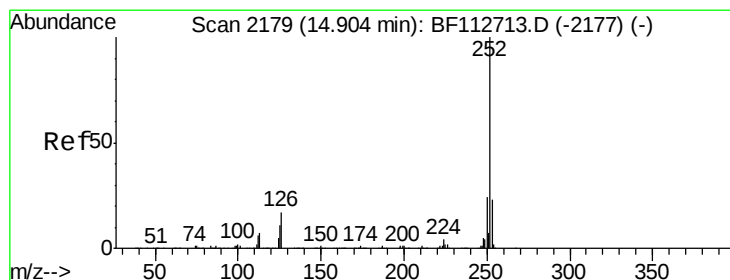
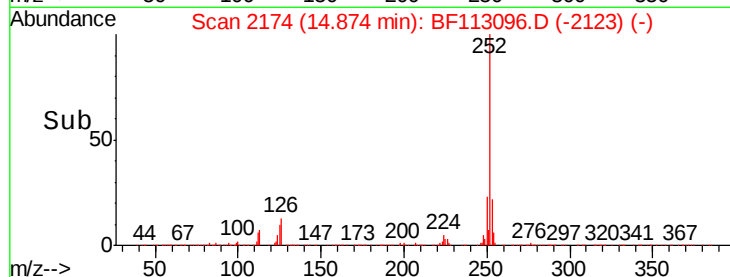
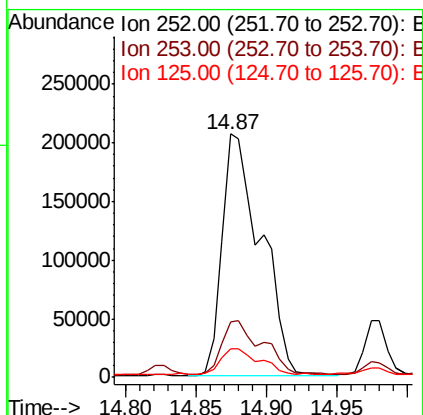
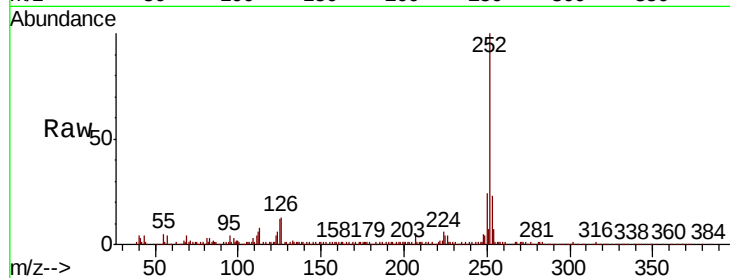




#88
Benzo(b)fluoranthene
Concen: 14.085 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

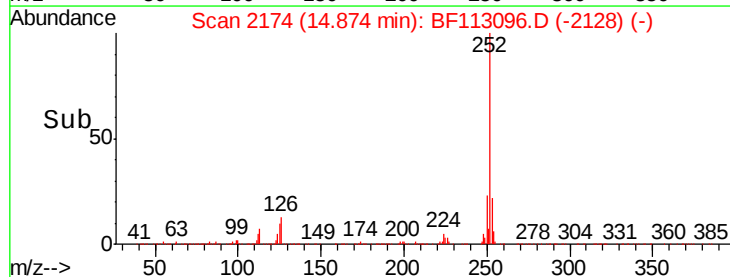
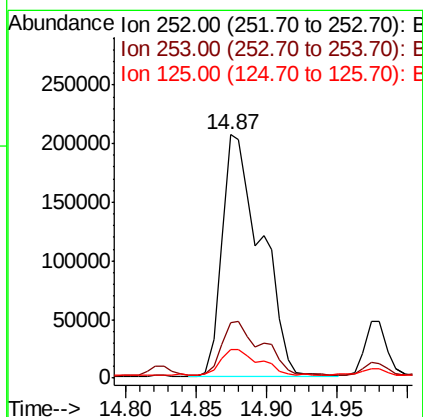
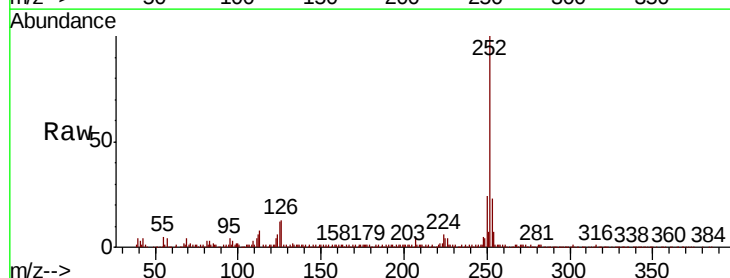
Instrument :
BNA_F
ClientSampleId :
SU-01-031519-B

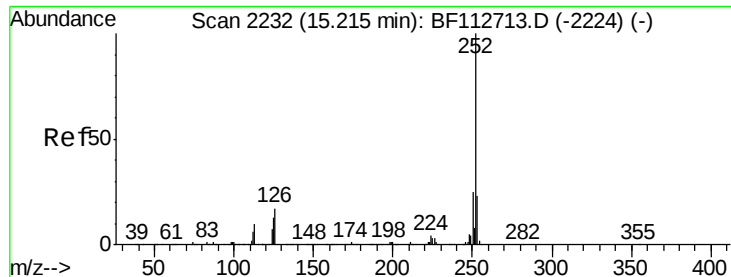
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.6	10.2	15.2



#89
Benzo(k)fluoranthene
Concen: 15.550 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.03 min
Lab File: BF113096.D
Acq: 18 Mar 2019 17:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	11.6	9.8	14.6





#90

Benzo(a)pyrene

Concen: 8.379 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.00 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

Instrument :

BNA_F

ClientSampleId :

SU-01-031519-B

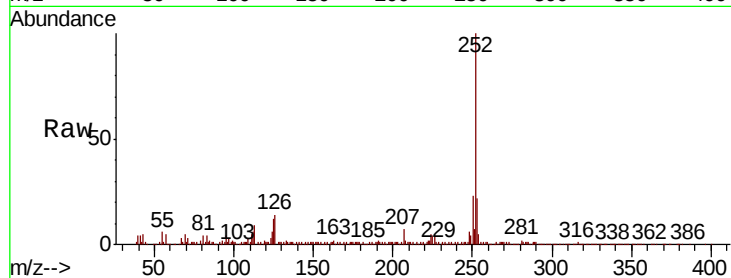
Tgt Ion:252 Resp: 209382

Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

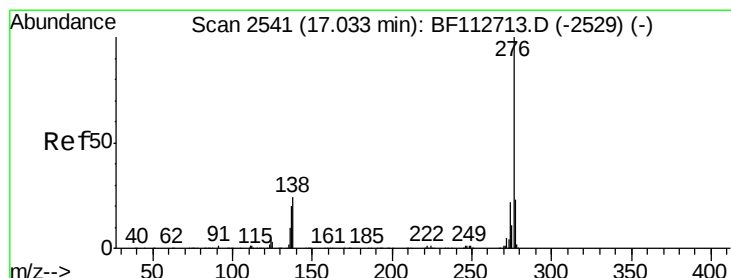
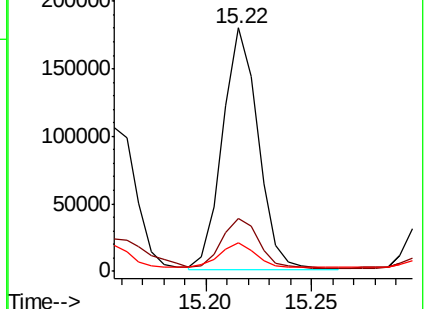
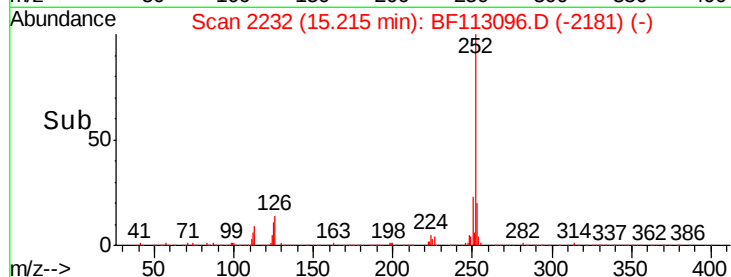
125 11.7 10.7 16.1



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



#92

Benzo(g,h,i)perylene

Concen: 3.836 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.01 min

Lab File: BF113096.D

Acq: 18 Mar 2019 17:54

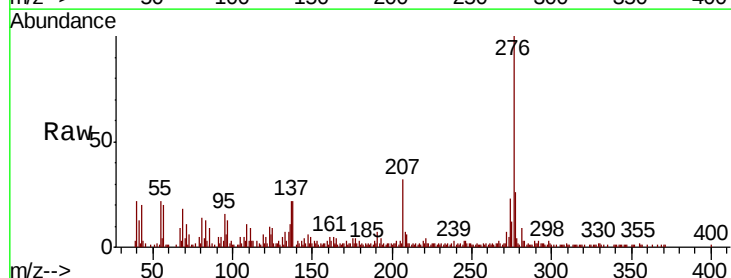
Tgt Ion:276 Resp: 82127

Ion Ratio Lower Upper

276 100

277 25.9 18.6 27.8

138 21.6 19.4 29.0



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

