

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122017\
 Data File : BF101583.D
 Acq On : 20 Dec 2017 22:14
 Operator : SJ/JU
 Sample : I6981-04 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PHMHA-WCD

Quant Time: Dec 21 04:09:49 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

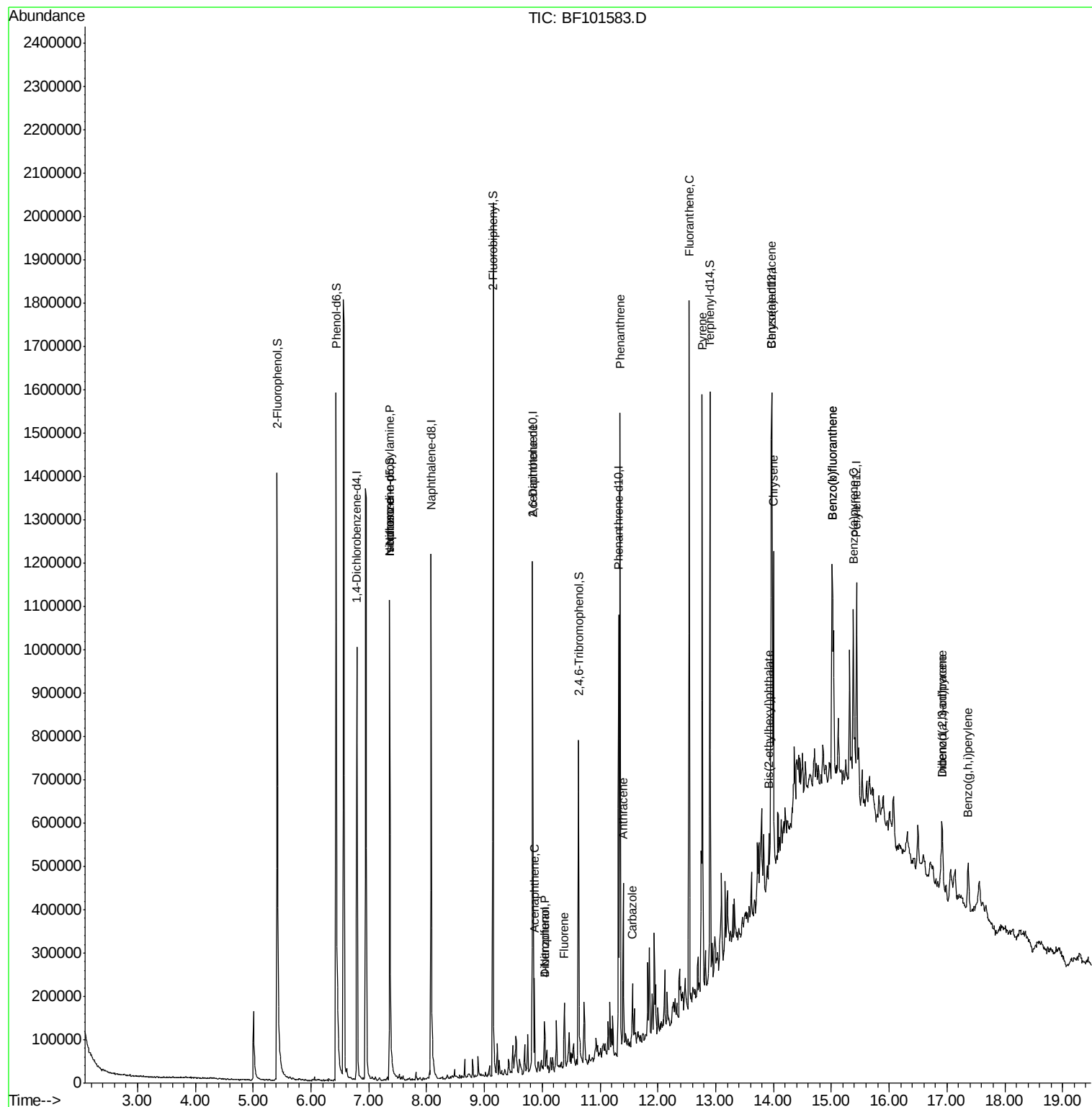
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	150400	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	583509	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	227074	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	335779	20.00	ng	0.00
75) Chrysene-d12	13.97	240	286002	20.00	ng	0.00
86) Perylene-d12	15.44	264	246771	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	540032	53.49	ng	0.00
7) Phenol-d6	6.43	99	654943	52.12	ng	0.00
23) Nitrobenzene-d5	7.36	82	406439	38.77	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	87654	40.06	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	648114	44.28	ng	0.00
78) Terphenyl-d14	12.90	244	440542	37.13	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.36	70	55754	6.756	ng	Qvalue # 80
25) Isophorone	7.36	82	406439	19.328	ng	# 64
50) 2,6-Dinitrotoluene	9.83	165	30029	8.089	ng	# 26
51) Acenaphthene	9.86	154	42548	2.910	ng	98
54) Dibenzofuran	10.04	168	38784	2.087	ng	96
55) 4-Nitrophenol	10.04	139	15673	7.766	ng	# 13
57) Fluorene	10.38	166	40876	2.600	ng	97
70) Phenanthrene	11.35	178	511664	27.401	ng	99
71) Anthracene	11.40	178	154442	8.097	ng	98
72) Carbazole	11.56	167	48218	2.700	ng	98
74) Fluoranthene	12.54	202	645237	32.920	ng	99
77) Pvrene	12.77	202	584013	27.208	ng	99
80) Benzo(a)anthracene	13.96	228	343667	18.198	ng	98
82) Chrysene	14.00	228	272984	15.309	ng	98
83) Bis(2-ethylhexyl)phthalate	13.93	149	29454	2.394	ng	# 93
85) Indeno(1,2,3-cd)pyrene	16.92	276	100623	6.337	ng	# 92
87) Benzo(b)fluoranthene	15.02	252	409992	27.258	ng	95
88) Benzo(k)fluoranthene	15.02	252	409759	28.019	ng	98
89) Benzo(a)pvrene	15.38	252	209710	15.124	ng	95
90) Dibenzo(a,h)anthracene	16.92	278	24603	2.067	ng	# 71
91) Benzo(g,h,i)perylene	17.36	276	97080	8.235	ng	95

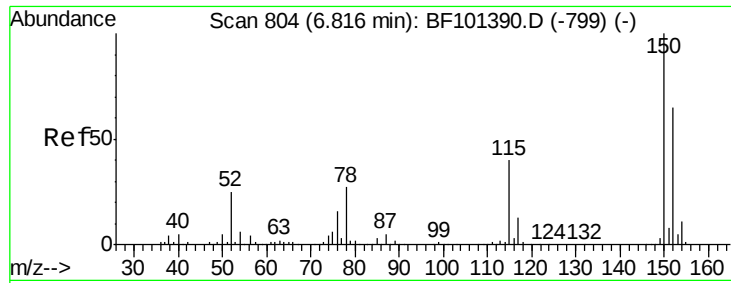
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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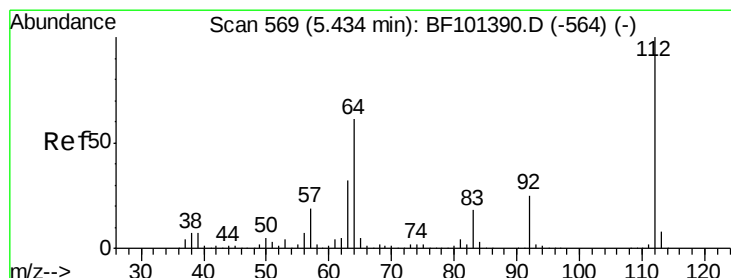
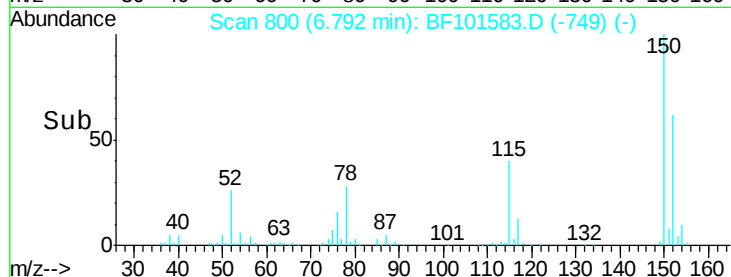
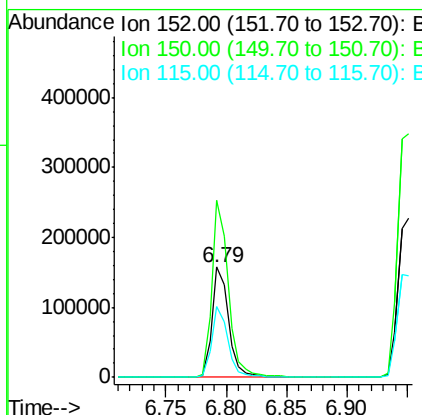
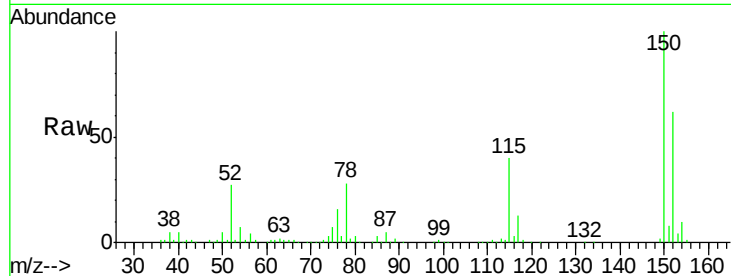


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Instrument :
BNA_F
ClientSampleId :
PHMHA-WCD

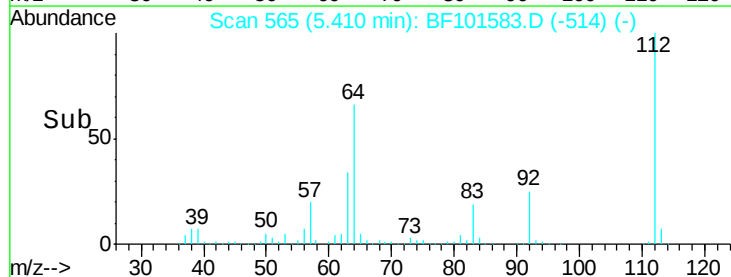
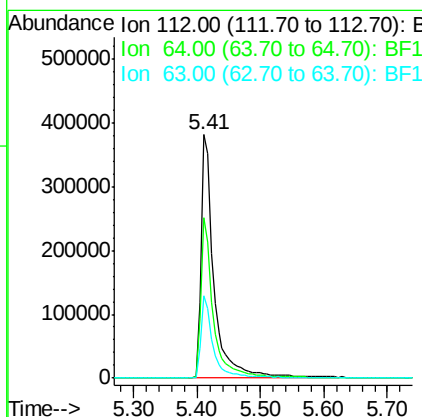
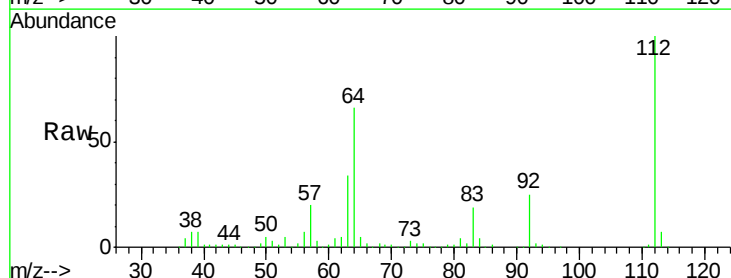
Tot Ion:152 Resp: 150400
Ion Ratio Lower Upper
152 100
150 161.0 124.6 186.8
115 63.9 50.1 75.1

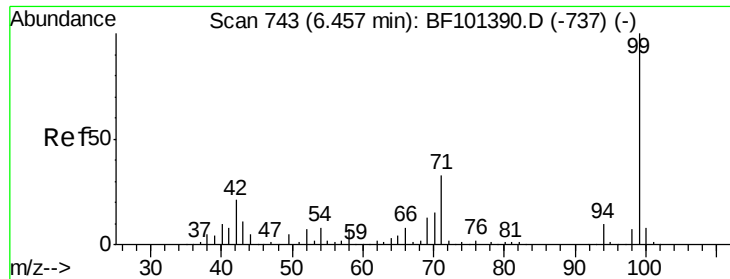


#5

2-Fluorophenol
Concen: 53.485 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.00 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Tgt Ion:112 Resp: 540032
Ion Ratio Lower Upper
112 100
64 65.8 47.9 71.9
63 34.1 23.7 35.5





#7

Phenol-d6

Concen: 52.121 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

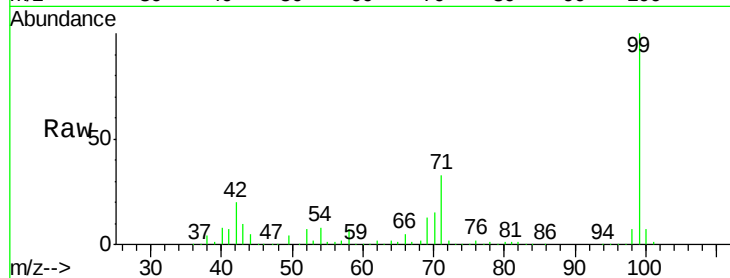
Tot Ion: 99 Resp: 654943

Ion Ratio Lower Upper

99 100

42 20.4 14.5 21.7

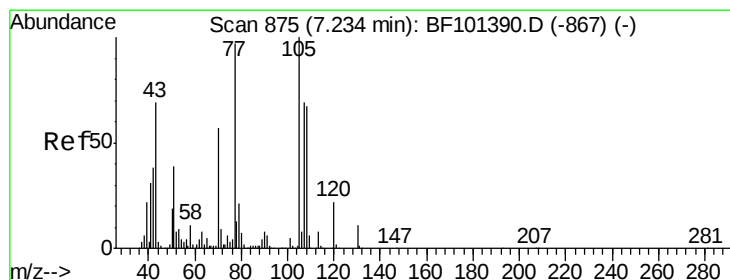
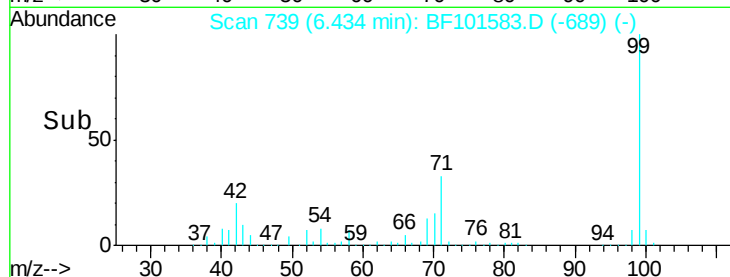
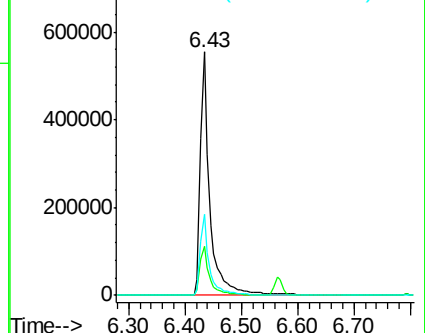
71 33.3 25.4 38.0



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: 6.756 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Tgt Ion: 70 Resp: 55754

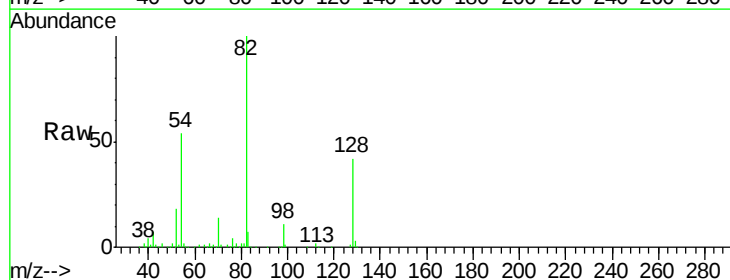
Ion Ratio Lower Upper

70 100

42 50.0 47.5 71.3

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#

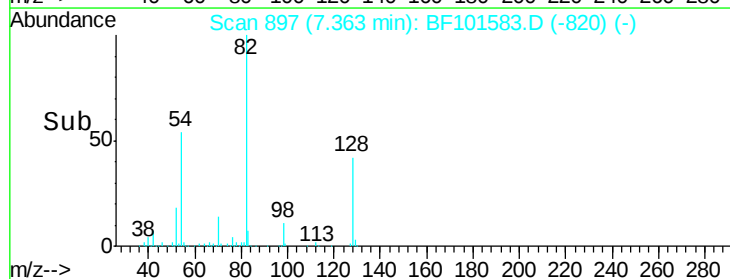
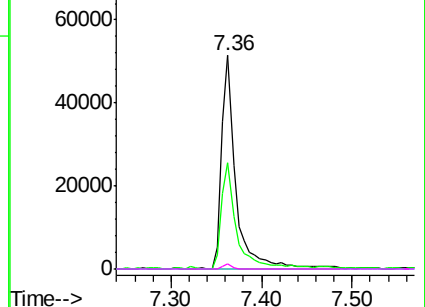


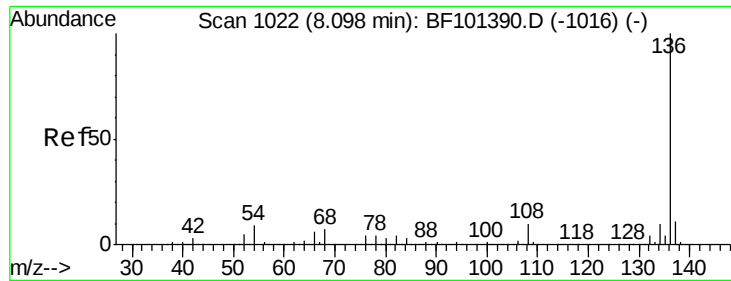
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

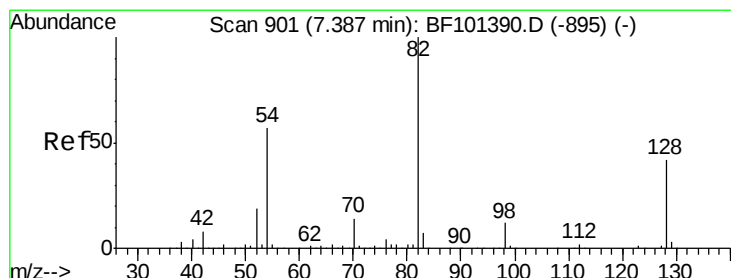
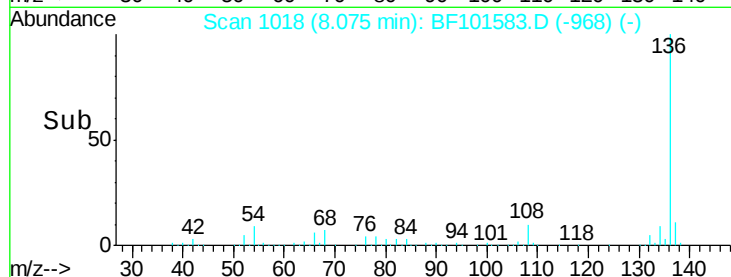
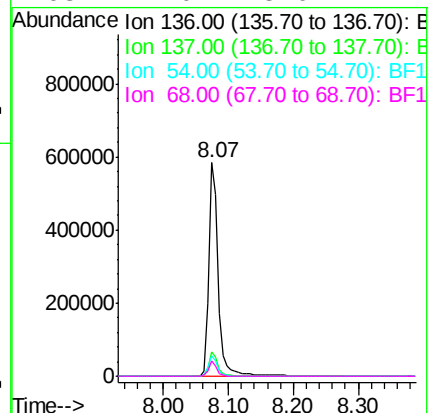
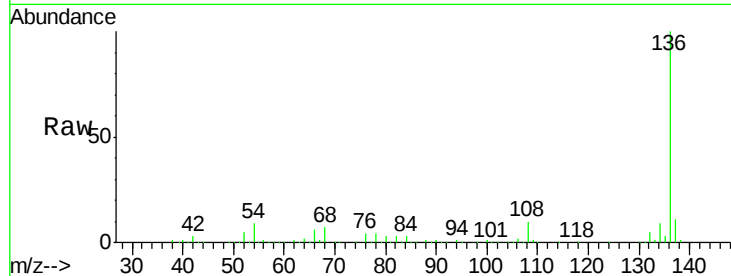




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

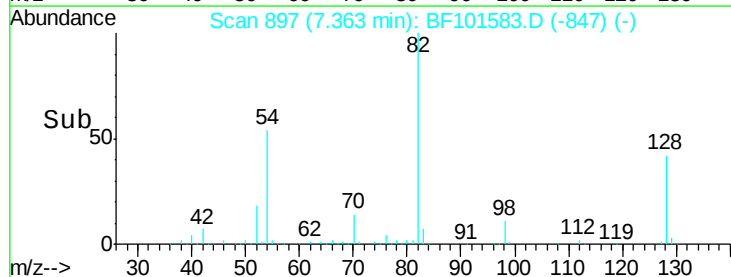
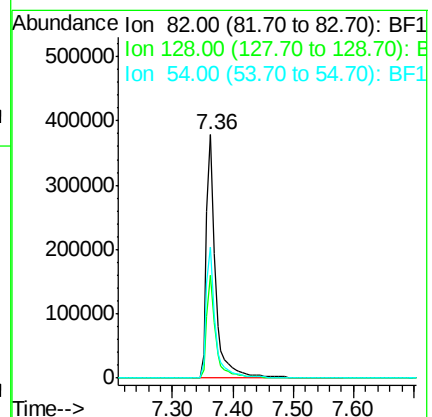
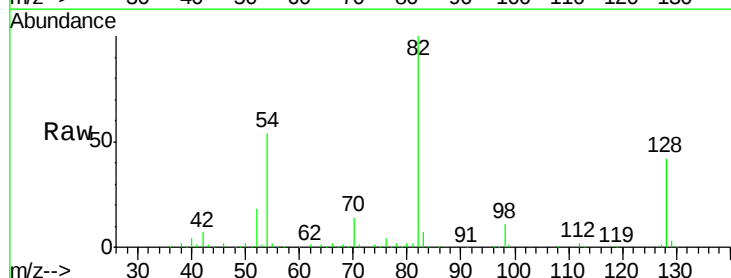
Instrument :
BNA_F
ClientSampleId :
PHMHA-WCD

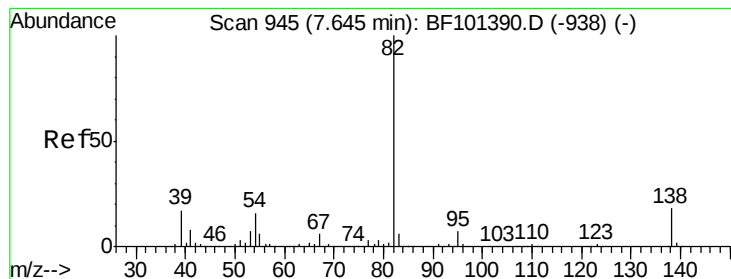
Tot Ion:136	Resp:	583509
Ion	Ratio	Lower Upper
136	100	
137	11.4	8.9 13.3
54	9.5	6.6 9.8
68	7.0	5.0 7.4



#23
Nitrobenzene-d5
Concen: 38.774 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Tgt Ion: 82	Resp:	406439
Ion	Ratio	Lower Upper
82	100	
128	42.2	36.1 54.1
54	54.0	41.4 62.2





#25

Isophorone

Concen: 19.328 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.26 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

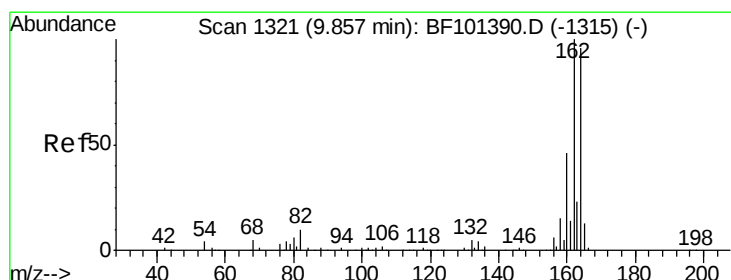
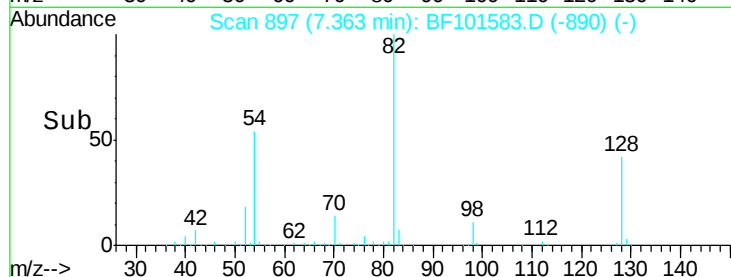
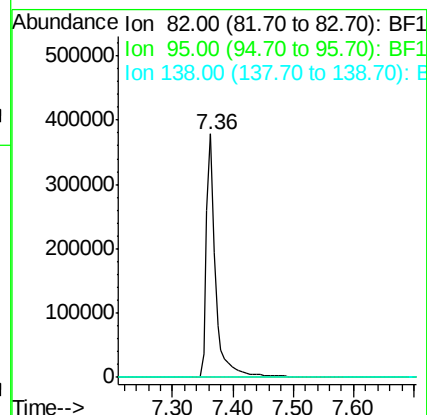
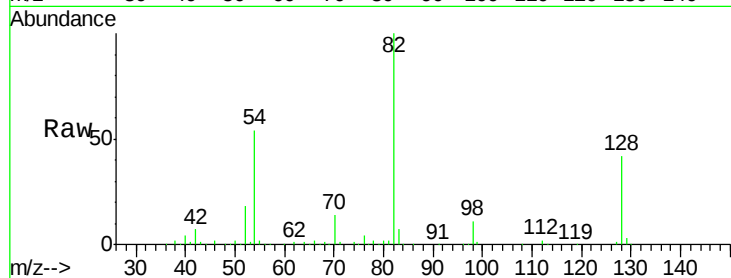
Tot Ion: 82 Resp: 406439

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: 9.83 min Scan# 1317

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

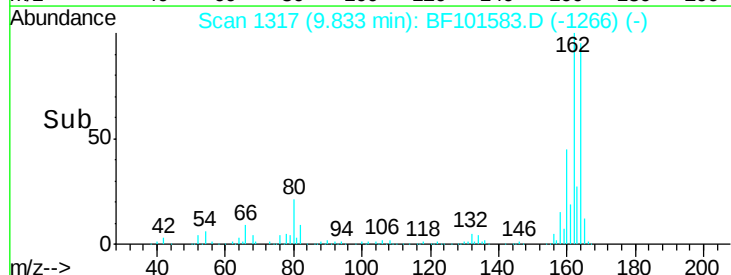
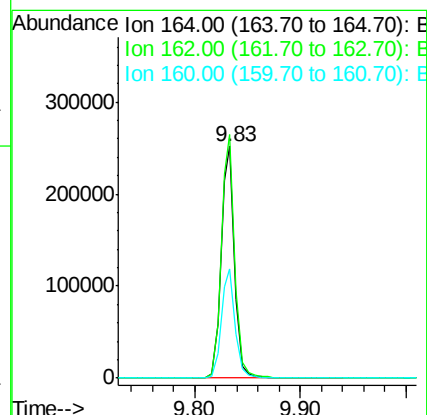
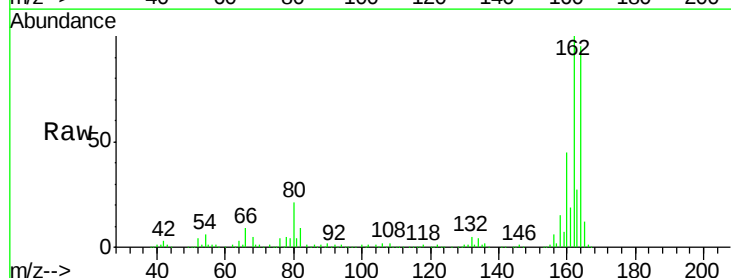
Tgt Ion: 164 Resp: 227074

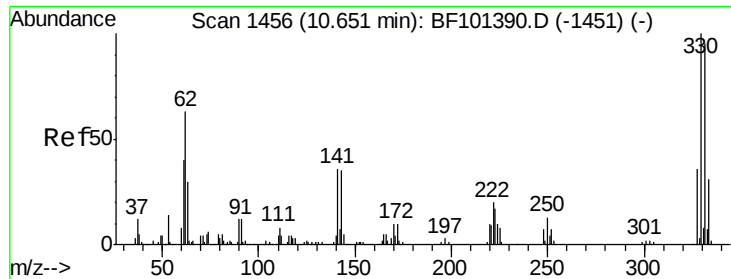
Ion Ratio Lower Upper

164 100

162 105.1 86.1 129.1

160 47.4 38.3 57.5

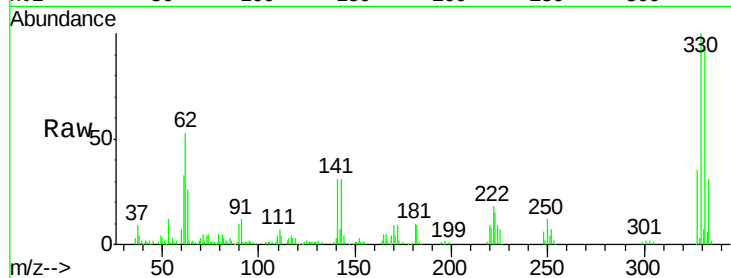




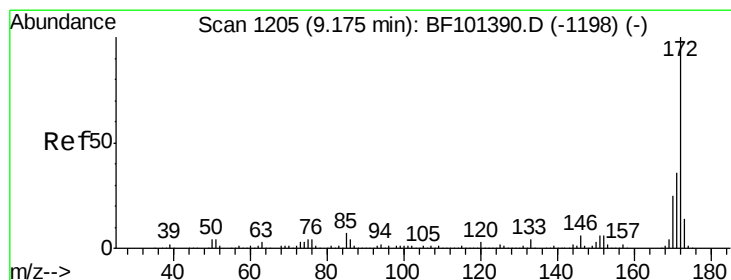
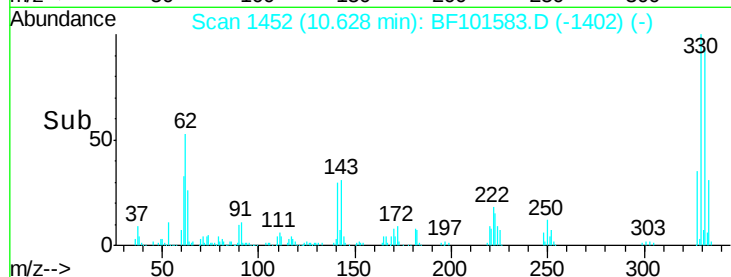
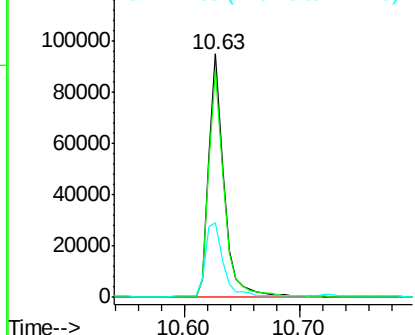
#41
 2,4,6-Tribromophenol
 Concen: 40.061 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

Instrument :
 BNA_F
 ClientSampleId :
 PHMHA-WCD

Tot Ion:330 Resp: 87654
 Ion Ratio Lower Upper
 330 100
 332 95.5 77.0 115.6
 141 38.8 29.9 44.9

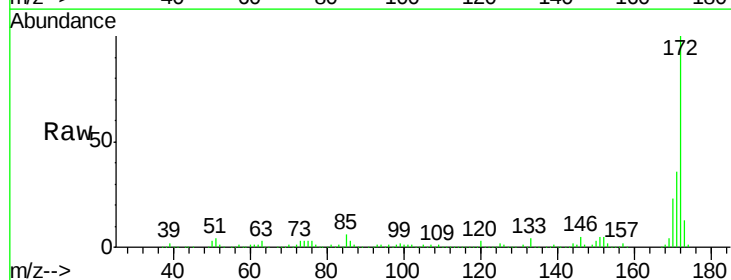


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

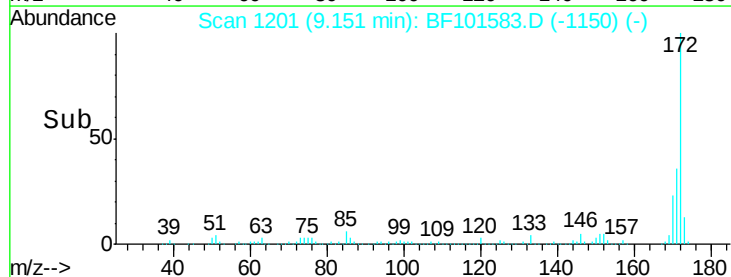
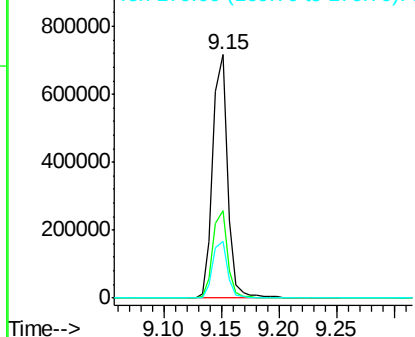


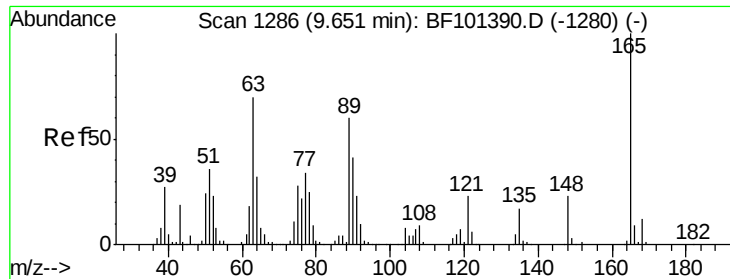
#44
 2-Fluorobiphenyl
 Concen: 44.275 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

Tgt Ion:172 Resp: 648114
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.7 44.5
 170 23.3 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

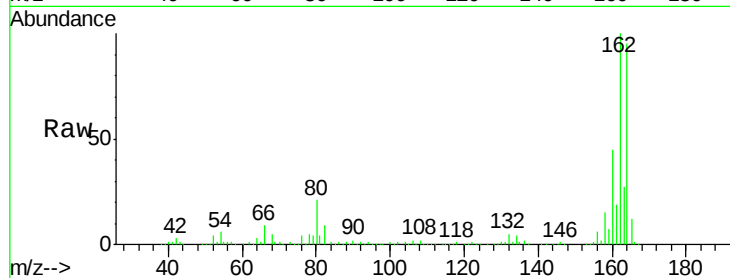




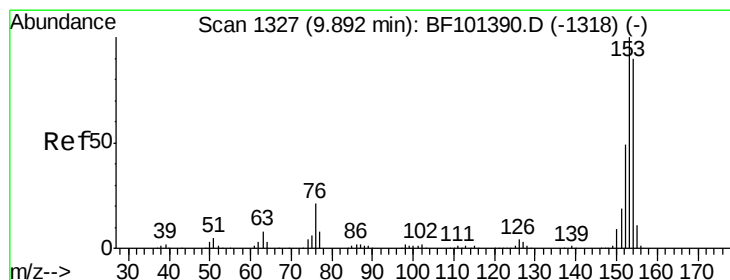
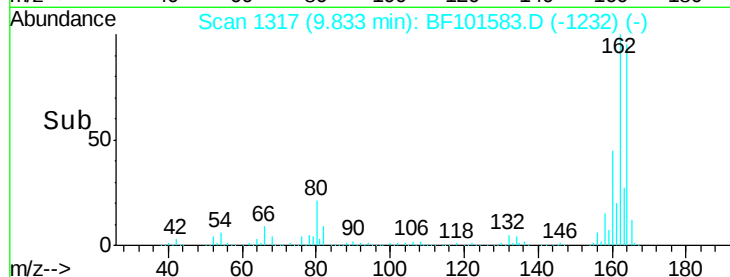
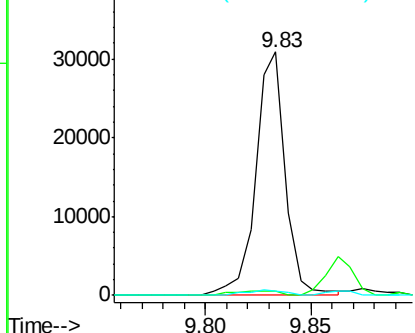
#50
2,6-Dinitrotoluene
Concen: 8.089 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.20 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Instrument :
BNA_F
ClientSampleId :
PHMHA-WCD

Tot Ion:165 Resp: 30029
Ion Ratio Lower Upper
165 100
63 1.8 44.7 67.1#
89 1.8 44.0 66.0#

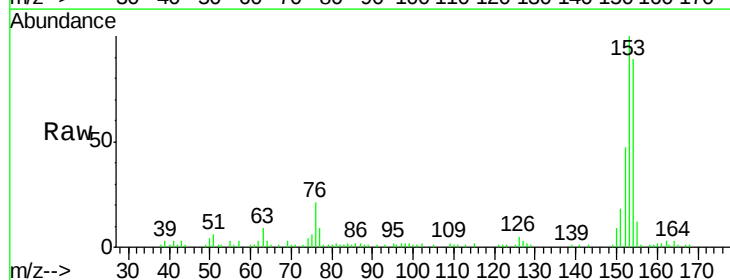


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

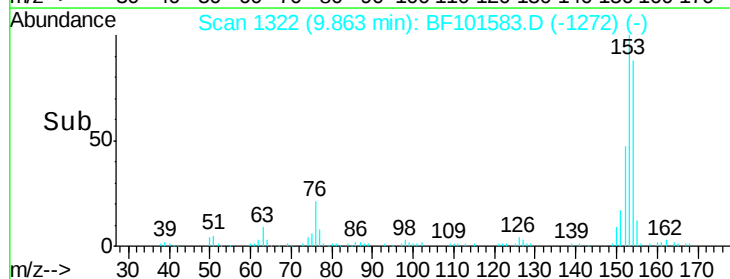
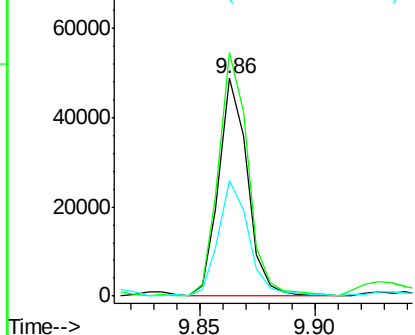


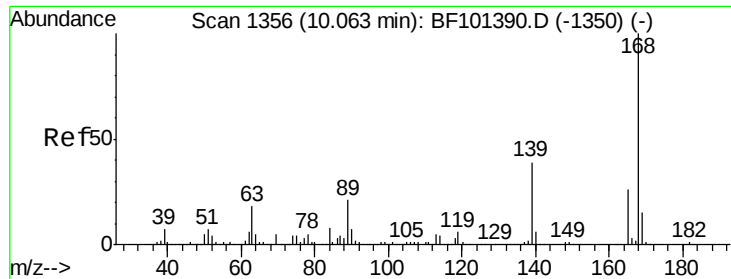
#51
Acenaphthene
Concen: 2.910 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Tgt Ion:154 Resp: 42548
Ion Ratio Lower Upper
154 100
153 111.7 91.2 136.8
152 53.0 43.8 65.8



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





#54

Dibenzofuran

Concen: 2.087 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

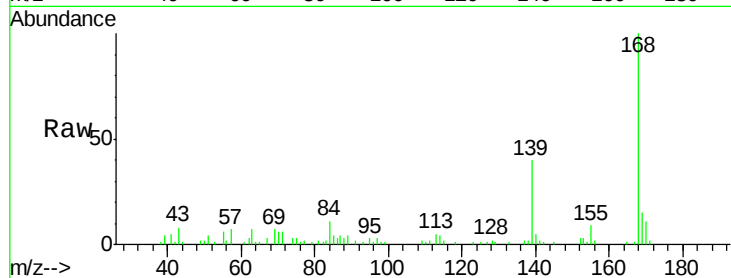
Tot Ion:168 Resp: 38784

Ion Ratio Lower Upper

168 100

139 40.2 30.1 45.1

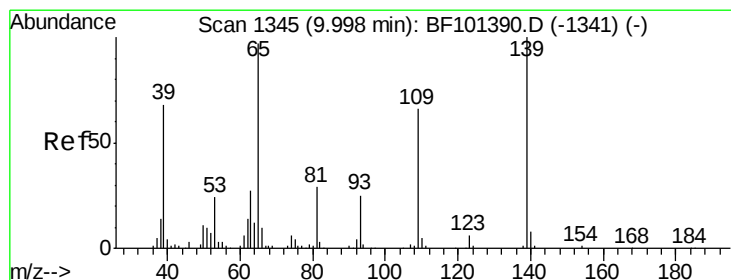
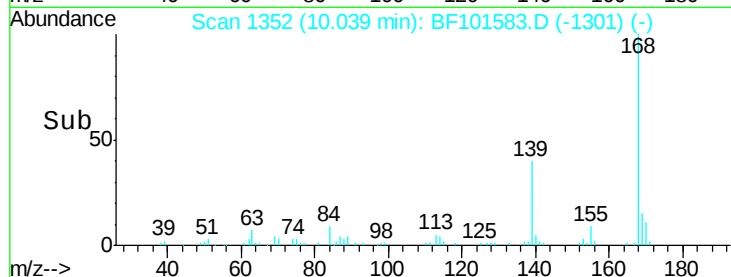
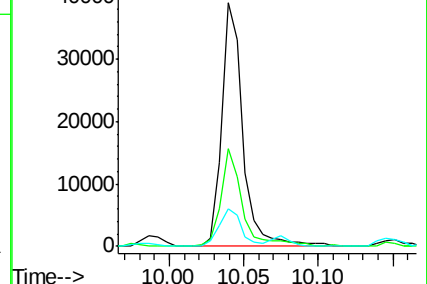
169 15.5 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 7.766 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.05 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

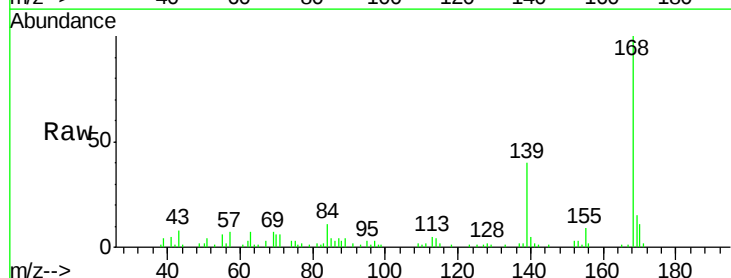
Tgt Ion:139 Resp: 15673

Ion Ratio Lower Upper

139 100

109 4.0 48.4 88.4#

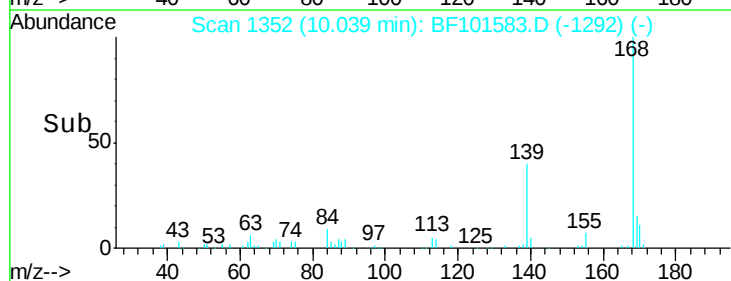
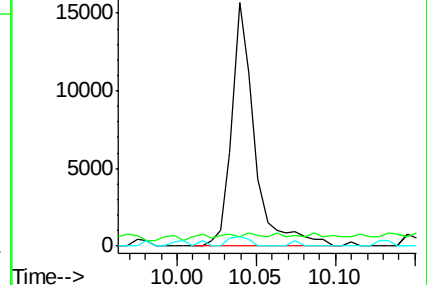
65 3.7 72.6 112.6#

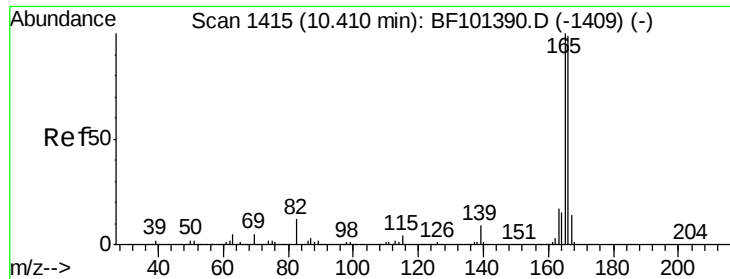


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

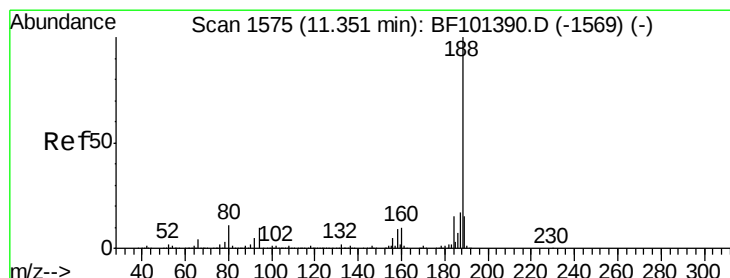
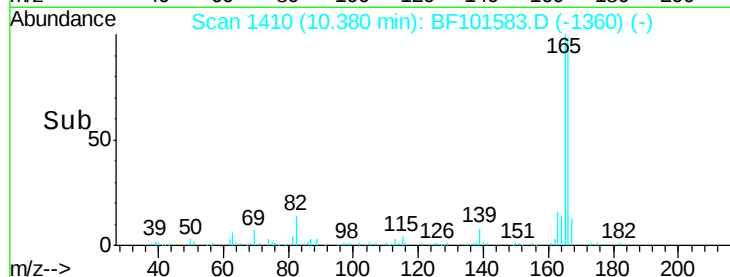
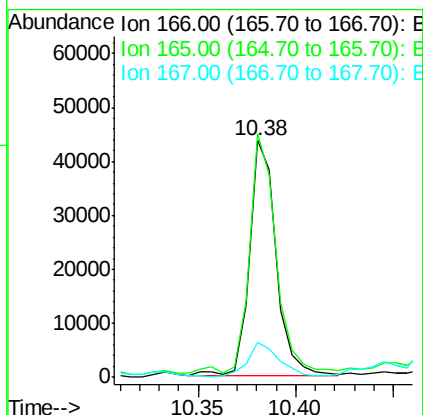
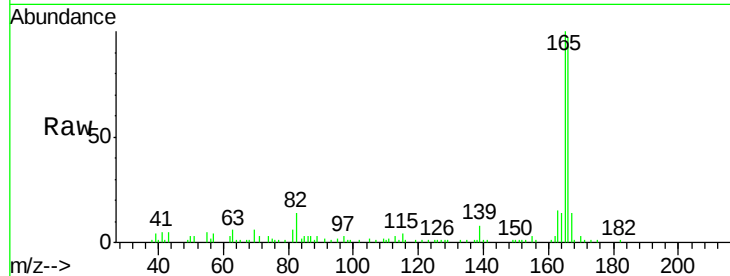




#57
Fluorene
 Concen: 2.600 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

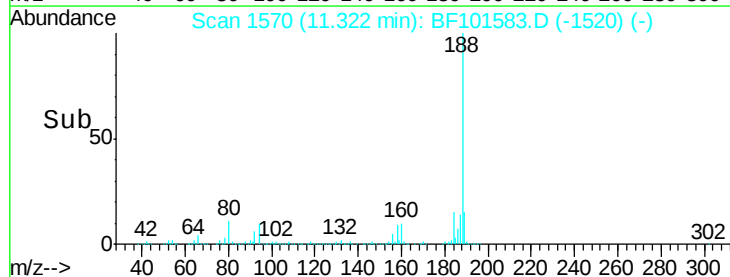
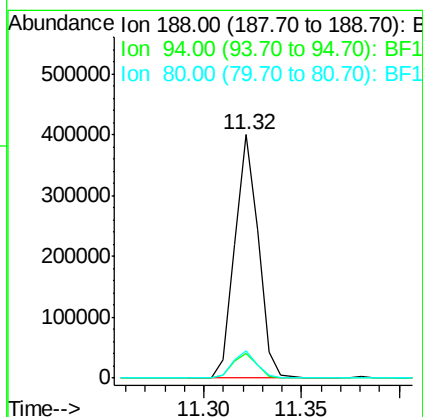
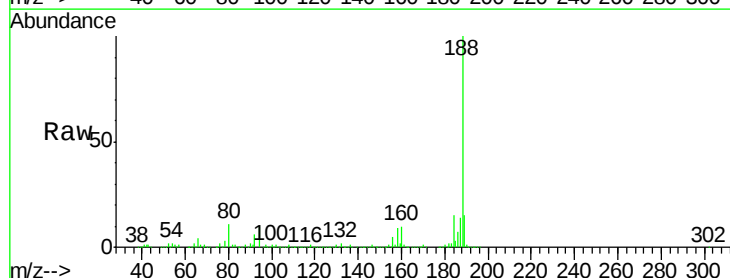
Instrument :
 BNA_F
 ClientSampleId :
 PHMHA-WCD

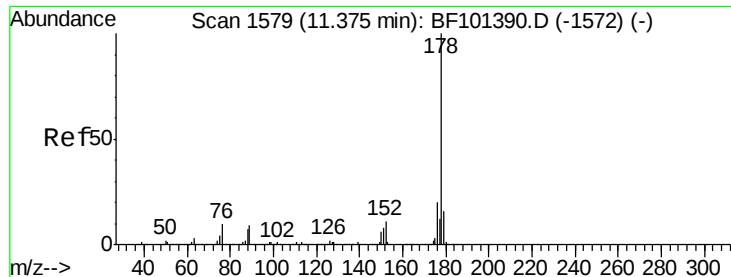
Tot Ion:166 Resp: 40876
 Ion Ratio Lower Upper
 166 100
 165 102.8 79.8 119.8
 167 14.6 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

Tgt Ion:188 Resp: 335779
 Ion Ratio Lower Upper
 188 100
 94 10.1 8.5 12.7
 80 11.4 9.2 13.8

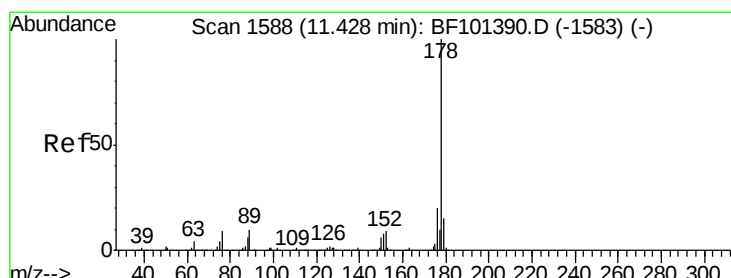
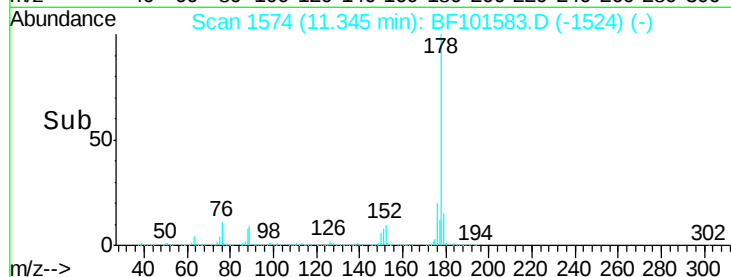
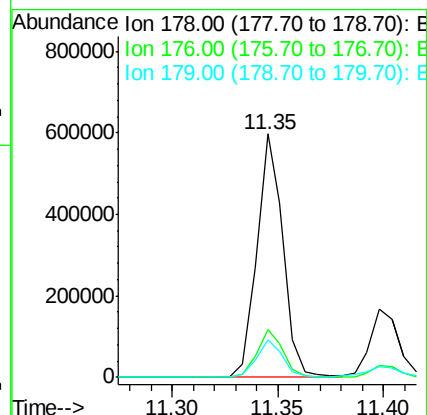
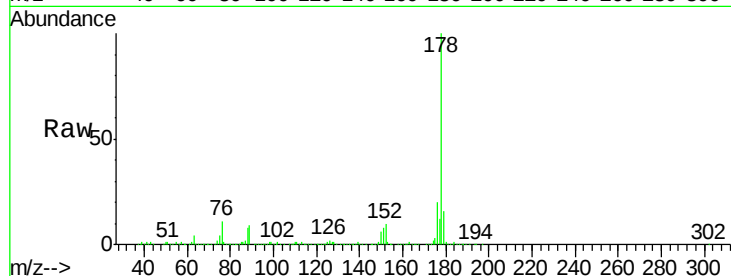




#70
Phenanthrene
Concen: 27.401 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

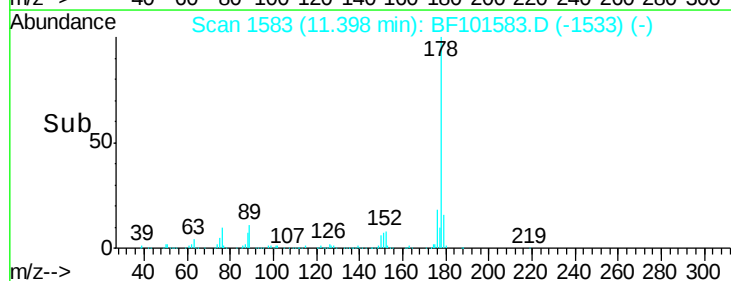
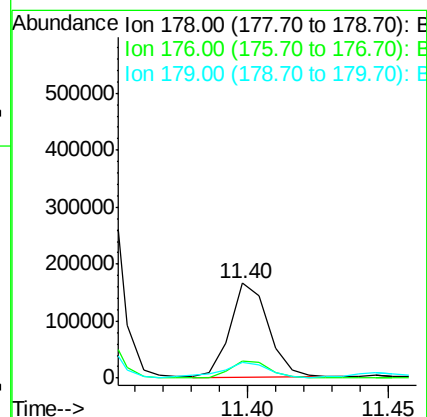
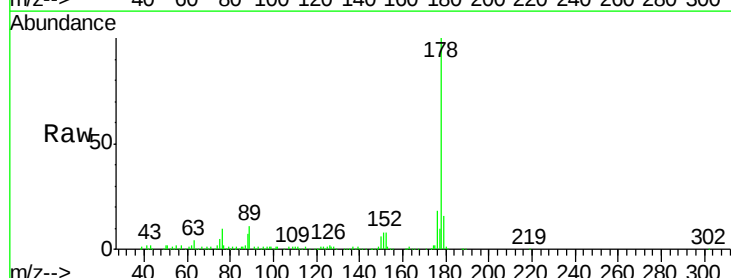
Instrument :
BNA_F
ClientSampleId :
PHMHA-WCD

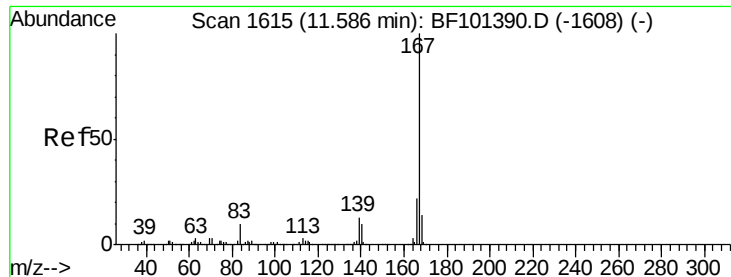
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.5	13.0	19.6



#71
Anthracene
Concen: 8.097 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101583.D
Acq: 20 Dec 2017 22:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	16.3	12.6	19.0





#72

Carbazole

Concen: 2.700 ng

RT: 11.56 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

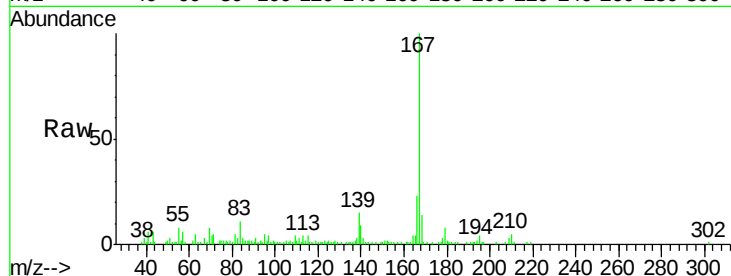
Tot Ion:167 Resp: 48218

Ion Ratio Lower Upper

167 100

166 22.7 17.6 26.4

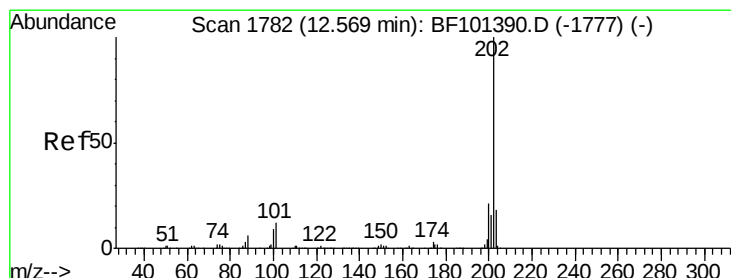
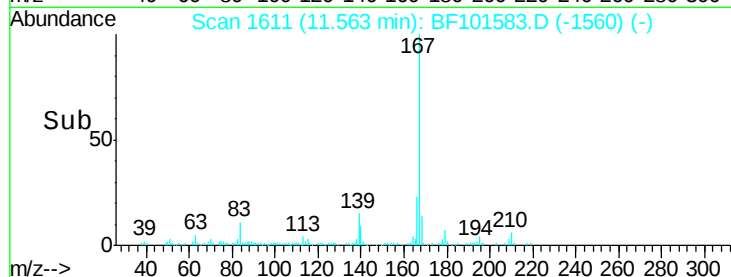
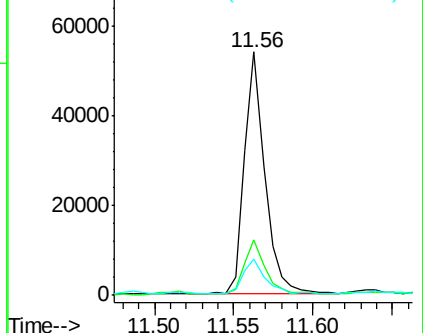
139 14.7 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 32.920 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

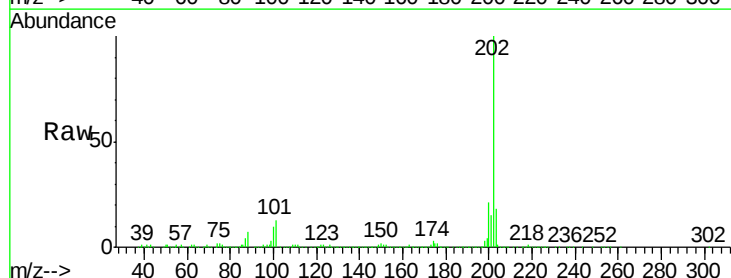
Tgt Ion:202 Resp: 645237

Ion Ratio Lower Upper

202 100

101 13.4 0.0 34.1

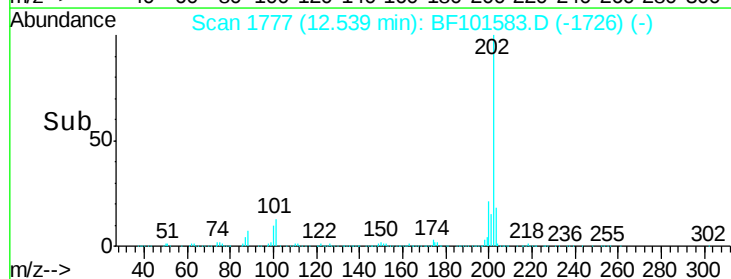
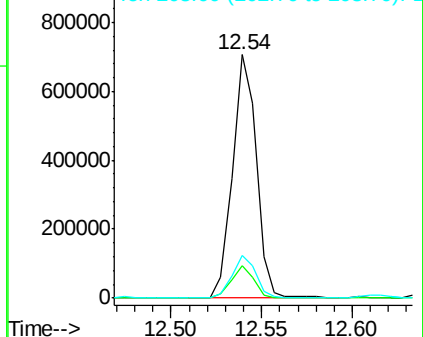
203 17.6 0.0 38.1

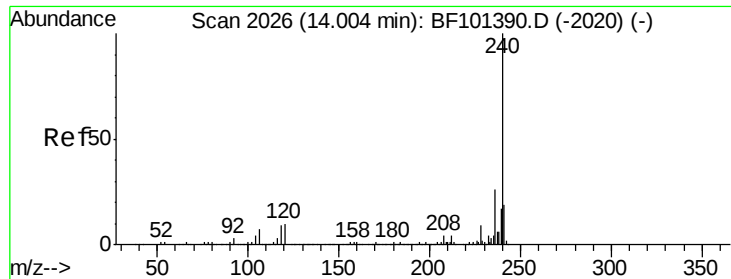


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

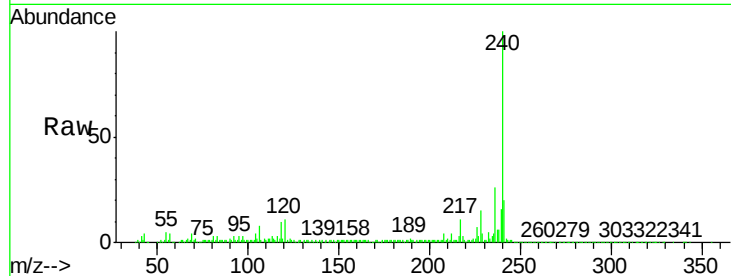
Tot Ion:240 Resp: 286002

Ion Ratio Lower Upper

240 100

120 11.0 9.5 14.3

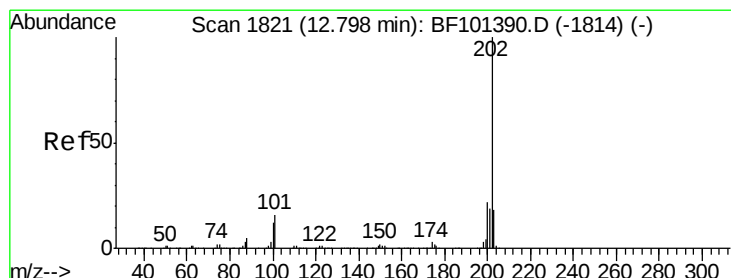
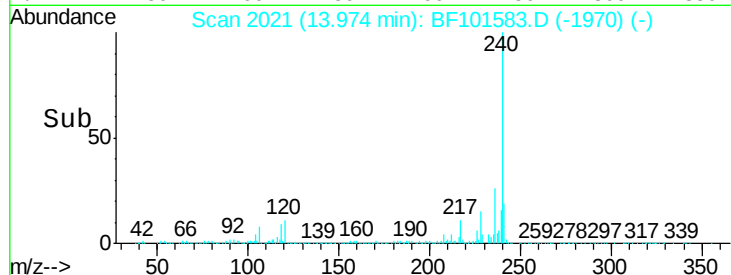
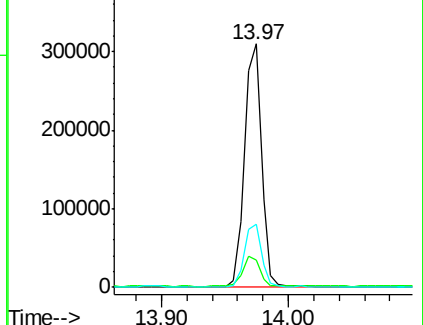
236 26.0 20.7 31.1



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: 27.208 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

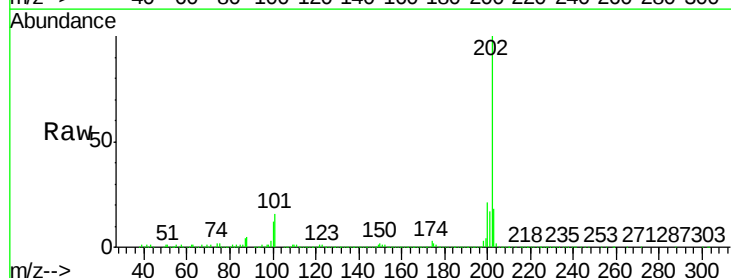
Tgt Ion:202 Resp: 584013

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

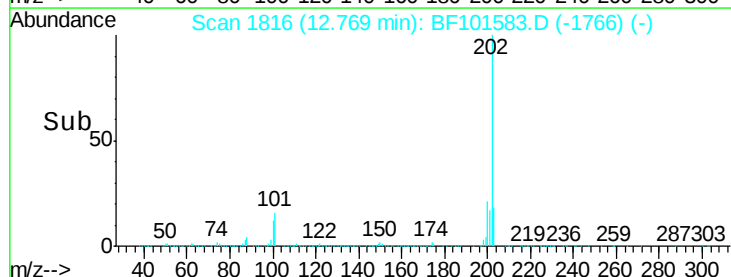
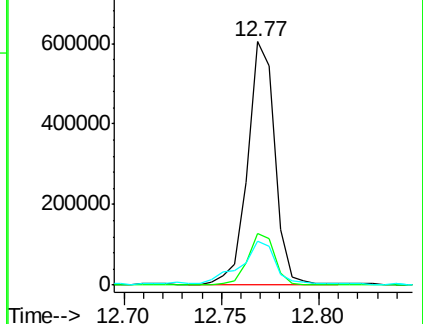
203 18.0 14.3 21.5

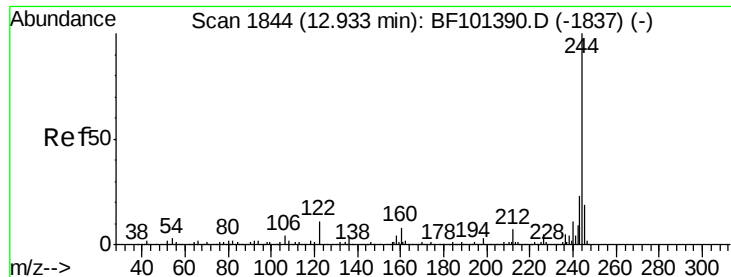


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

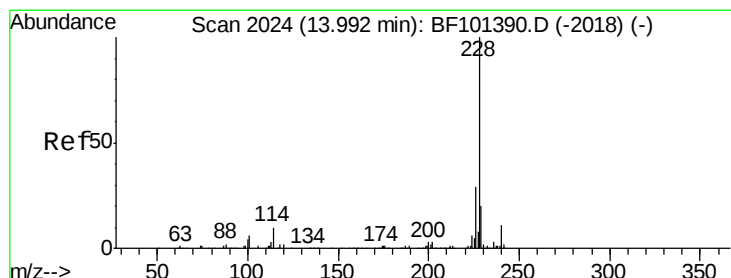
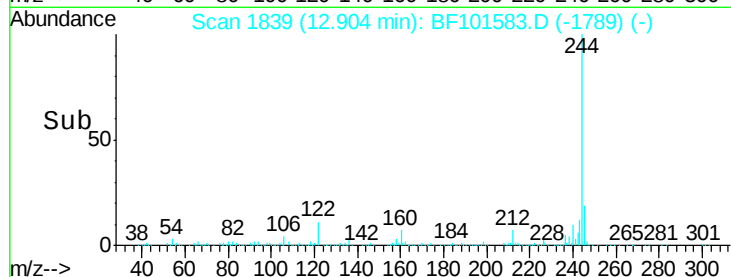
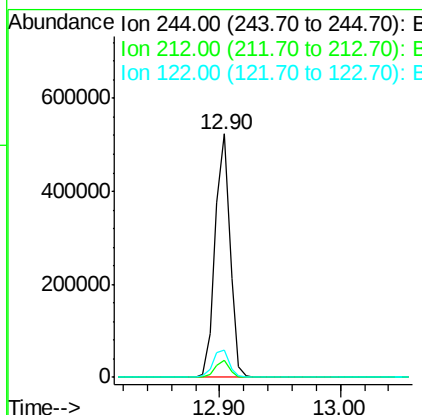
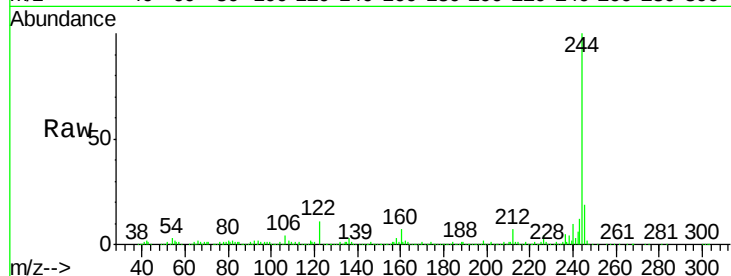




#78
 Terphenyl-d14
 Concen: 37.134 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. -0.01 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

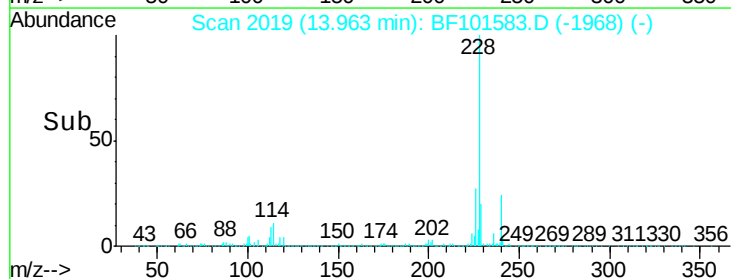
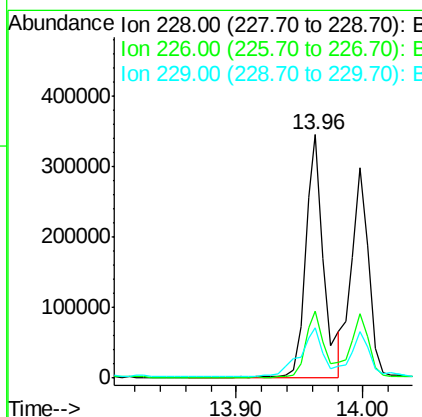
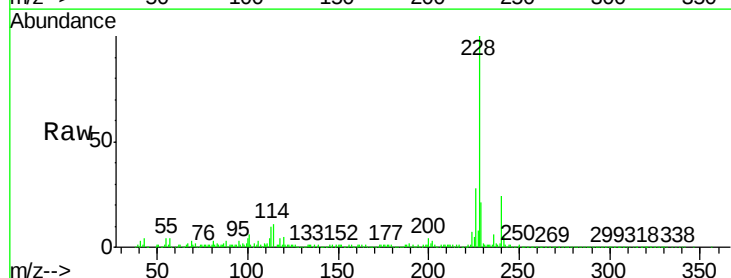
Instrument :
 BNA_F
 ClientSampleId :
 PHMHA-WCD

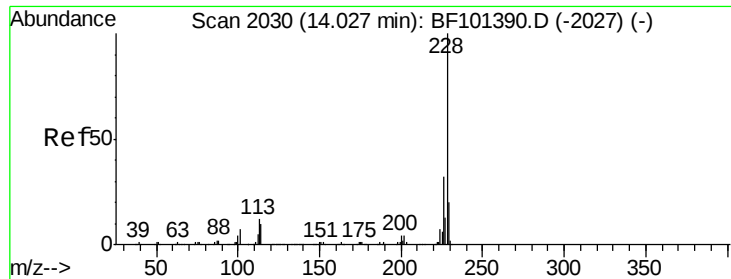
Tot Ion:244 Resp: 440542
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.0
 122 11.3 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 18.198 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

Tgt Ion:228 Resp: 343667
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.6 33.8
 229 20.7 15.8 23.6





#82

Chrysene

Concen: 15.309 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

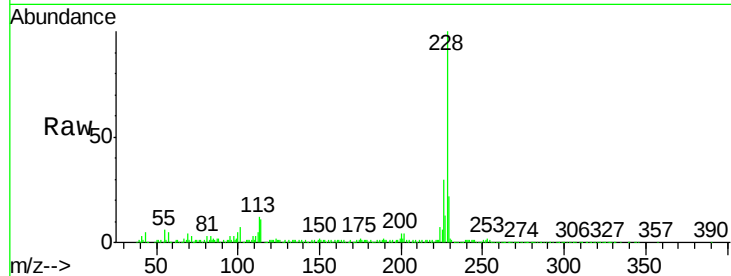
Tot Ion:228 Resp: 272984

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

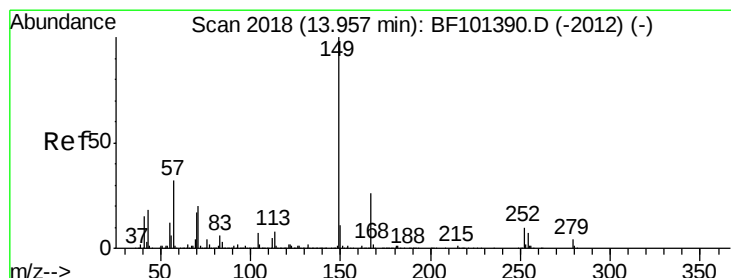
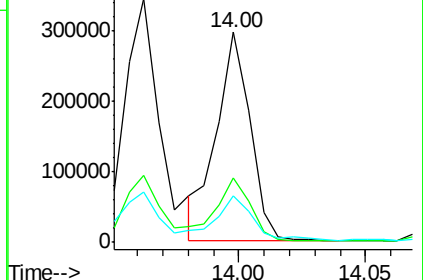
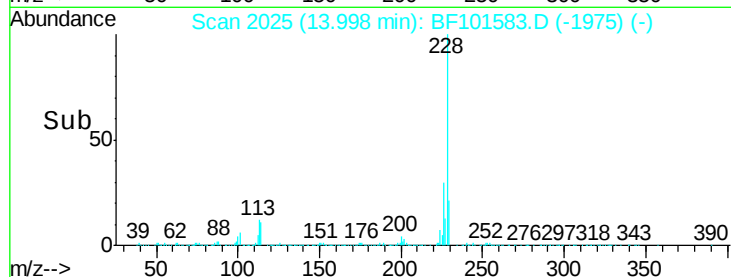
229 21.9 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.394 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

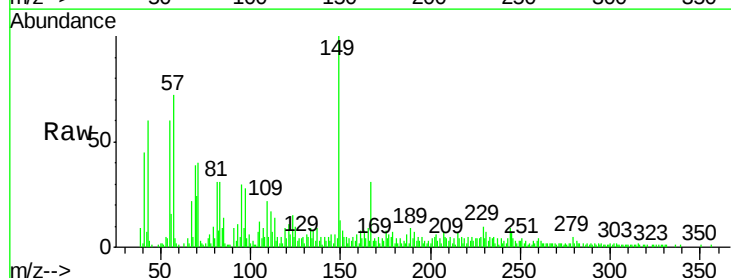
Tgt Ion:149 Resp: 29454

Ion Ratio Lower Upper

149 100

167 30.5 21.3 31.9

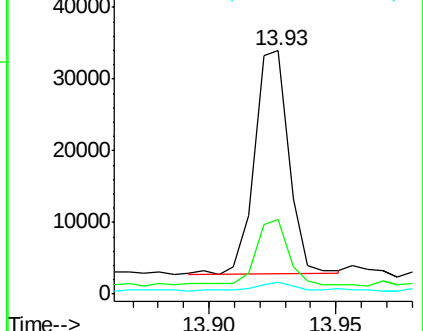
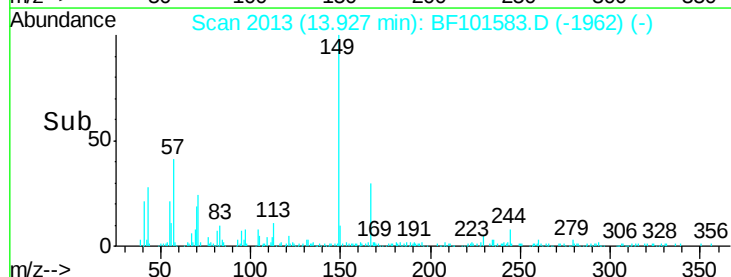
279 4.7 3.0 4.4#

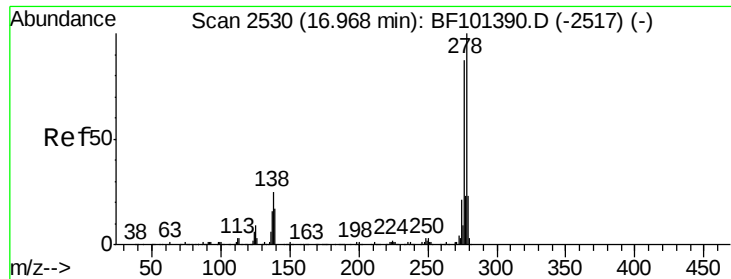


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

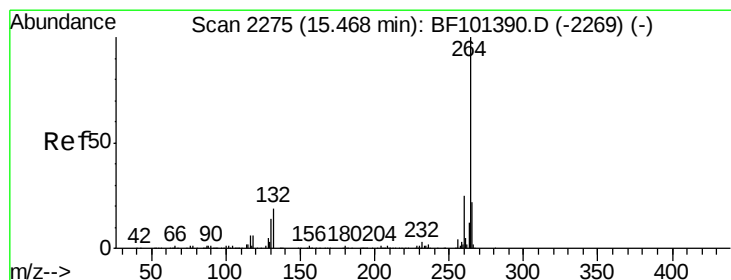
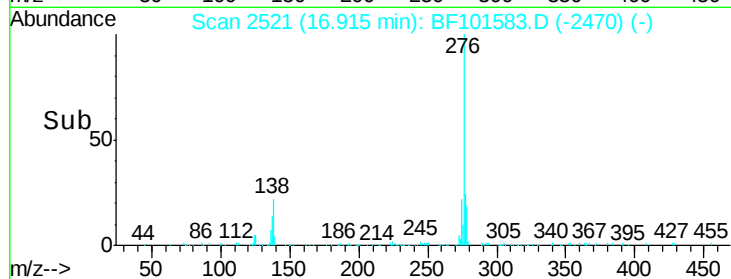
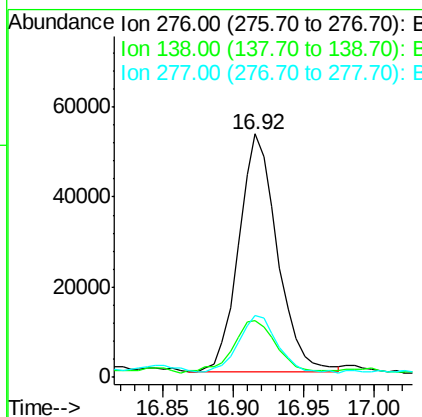
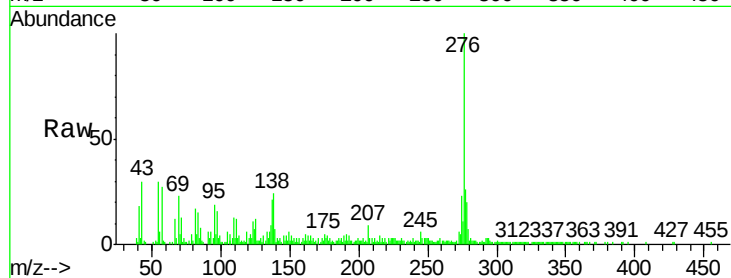




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.337 ng
 RT: 16.92 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

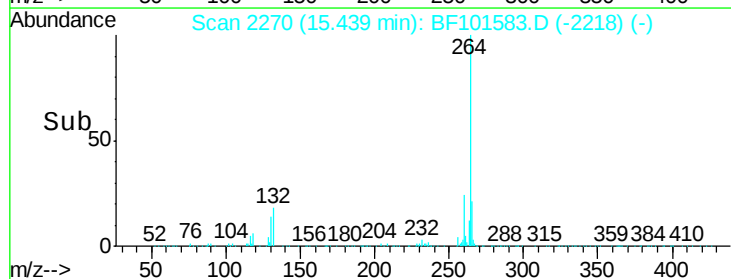
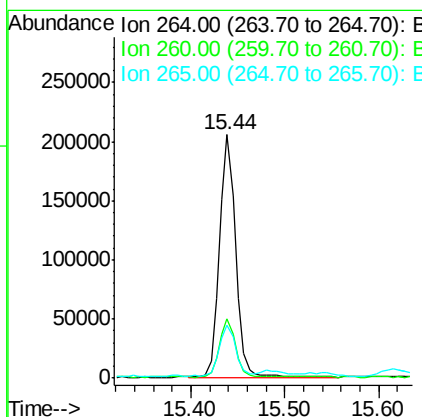
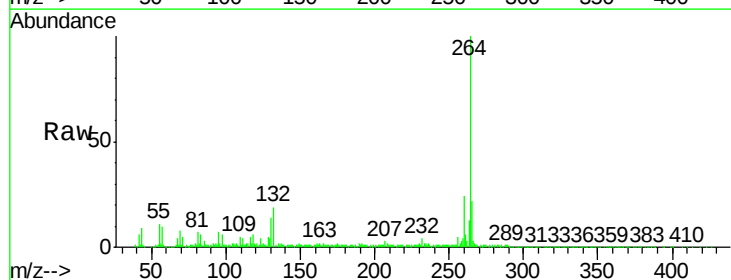
Instrument :
 BNA_F
 ClientSampleId :
 PHMHA-WCD

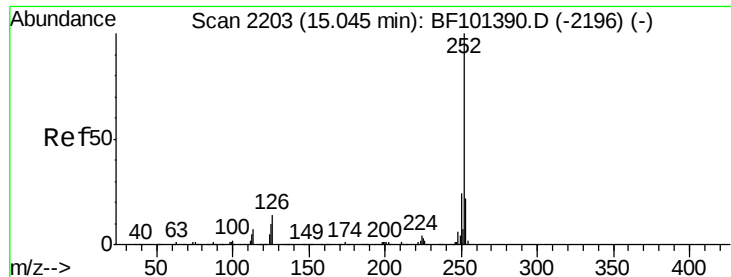
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.8	25.0	37.6#
277	24.0	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2270
 Delta R.T. 0.01 min
 Lab File: BF101583.D
 Acq: 20 Dec 2017 22:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 27.258 ng

RT: 15.02 min Scan# 2198

Delta R.T. 0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

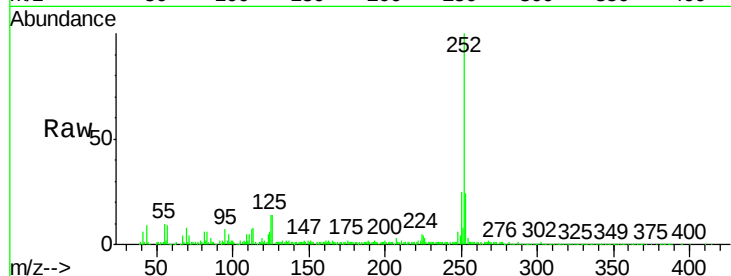
Tot Ion:252 Resp: 409992

Ion Ratio Lower Upper

252 100

253 23.6 17.0 25.6

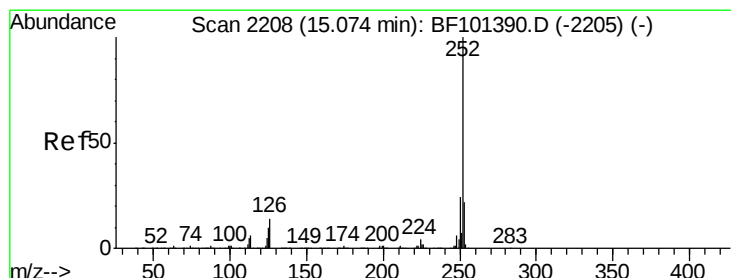
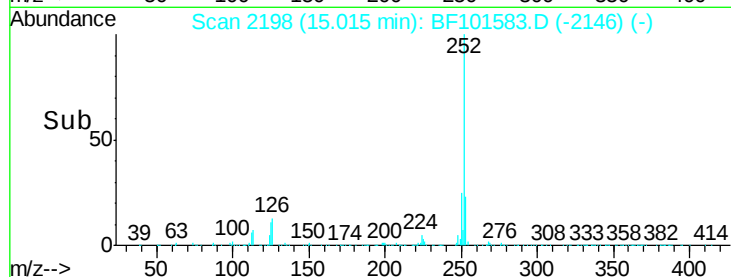
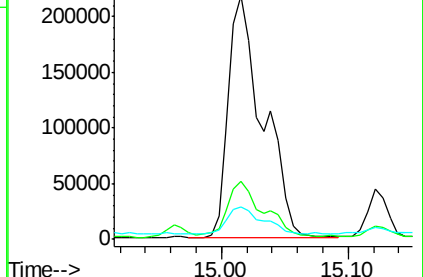
125 13.5 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 28.019 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.02 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

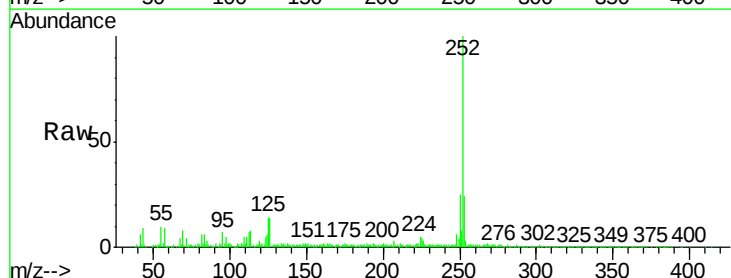
Tgt Ion:252 Resp: 409759

Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

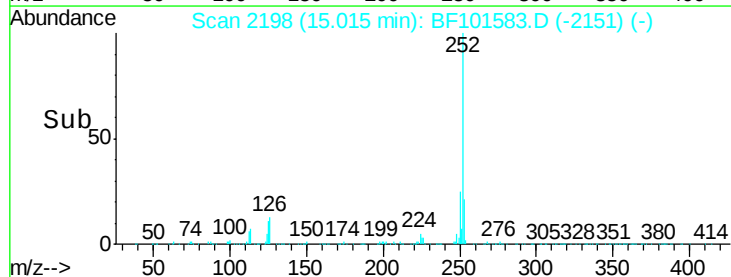
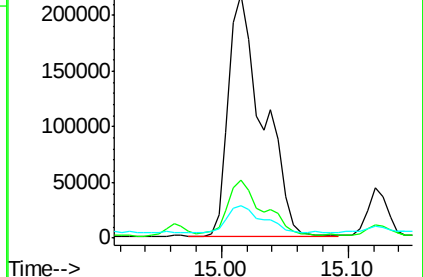
125 13.5 10.2 15.2

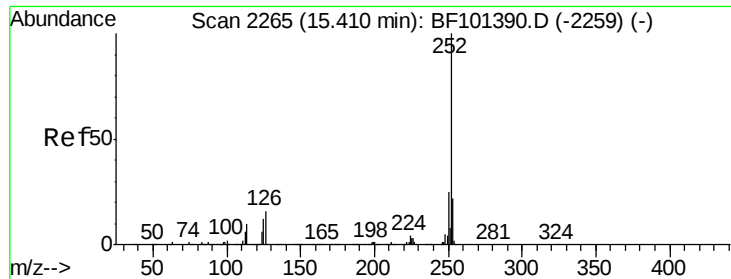


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 15.124 ng

RT: 15.38 min Scan# 2260

Delta R.T. 0.00 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

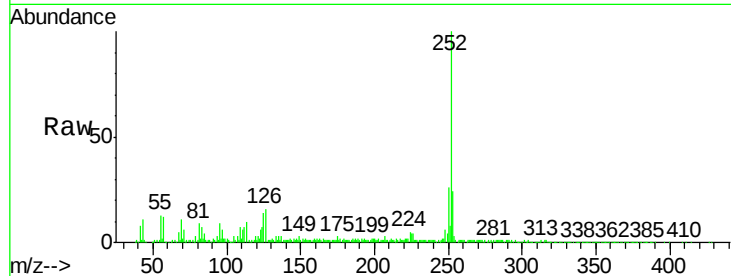
Tot Ion:252 Resp: 209710

Ion Ratio Lower Upper

252 100

253 24.1 17.1 25.7

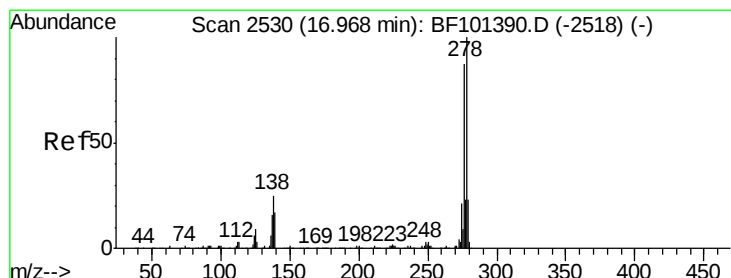
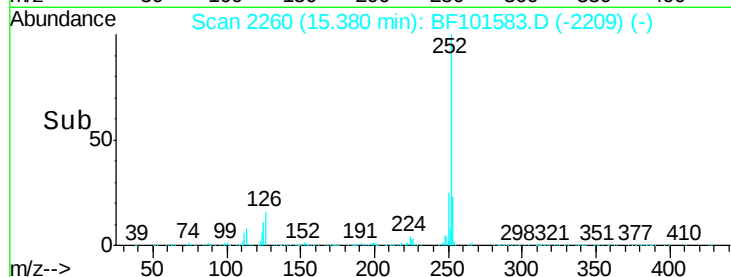
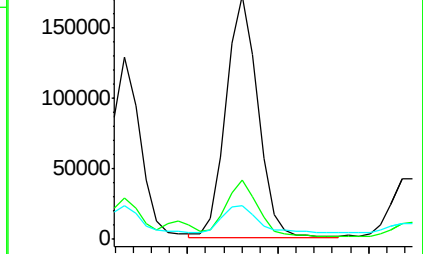
125 13.9 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.067 ng

RT: 16.92 min Scan# 2521

Delta R.T. 0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

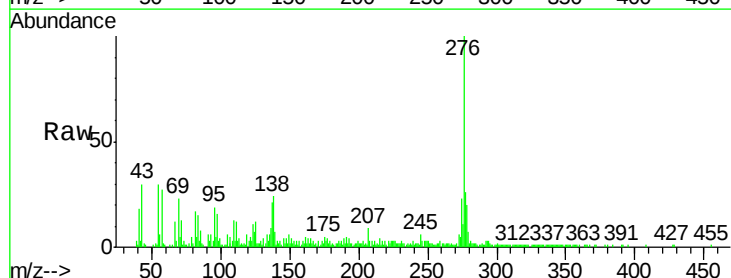
Tgt Ion:278 Resp: 24603

Ion Ratio Lower Upper

278 100

139 37.0 15.9 23.9#

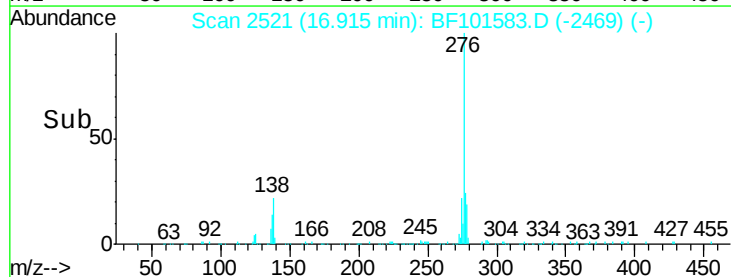
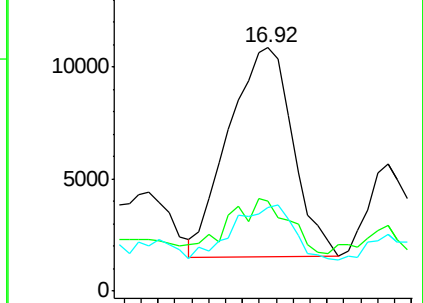
279 34.1 19.0 28.4#

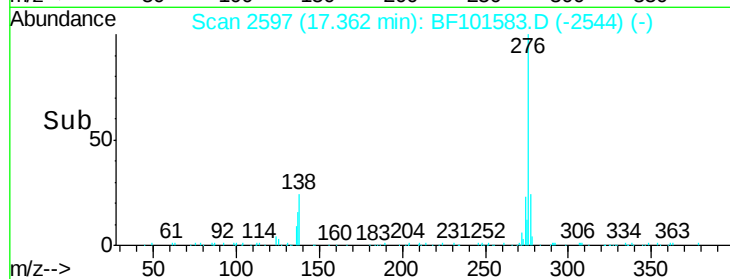
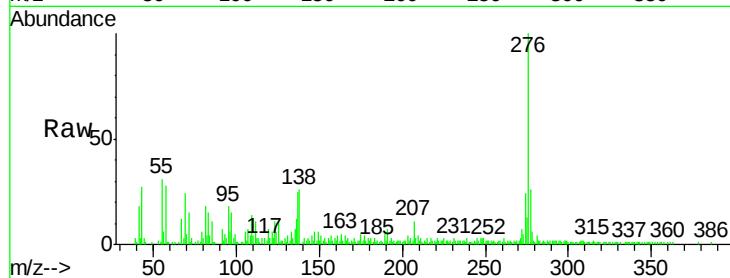
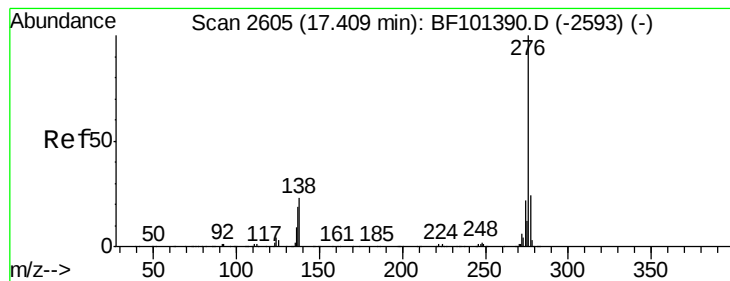


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 8.235 ng

RT: 17.36 min Scan# 2597

Delta R.T. 0.01 min

Lab File: BF101583.D

Acq: 20 Dec 2017 22:14

Instrument :

BNA_F

ClientSampleId :

PHMHA-WCD

Tot Ion:276 Resp: 97080

Ion Ratio Lower Upper

276 100

277 26.4 17.9 26.9

138 26.4 21.8 32.8

