

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123019\
 Data File : BF118391.D
 Acq On : 30 Dec 2019 20:01
 Operator : JU
 Sample : K6455-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 31 00:40:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	138346	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	538890	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	282014	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	487132	20.00	ng	0.00
76) Chrysene-d12	14.05	240	286985	20.00	ng	0.00
87) Perylene-d12	15.54	264	325816	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	835364	103.07	ng	0.01
7) Phenol-d6	6.49	99	1094514	108.86	ng	0.00
23) Nitrobenzene-d5	7.42	82	676289	71.78	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	300996	86.43	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	1415844	76.64	ng	0.00
79) Terphenyl-d14	12.99	244	1353560	78.25	ng	0.00

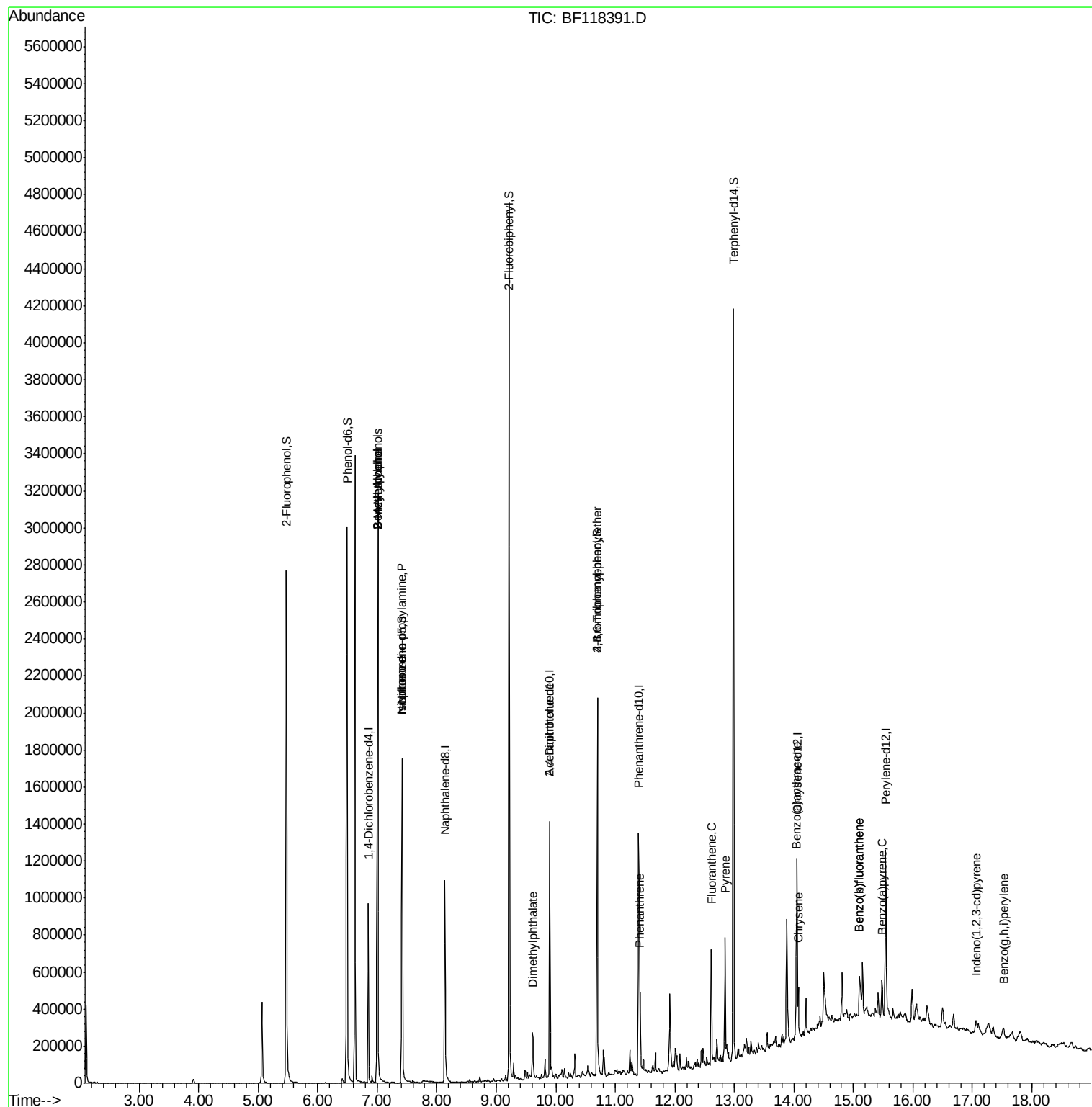
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Benzyl Alcohol	7.00	79	195542	25.544	ng	98
17) 2-Methylphenol	7.00	107	104824	14.238	ng	# 14
19) n-Nitroso-di-n-propylamine	7.42	70	92068	14.865	ng	# 77
20) 3+4-Methylphenols	7.00	107	104823	11.125	ng	# 41
25) Isophorone	7.42	82	676286	41.185	ng	# 62
50) Dimethylphthalate	9.61	163	99048	4.679	ng	98
57) 2,4-Dinitrotoluene	9.90	165	38036	6.237	ng	# 30
67) 4-Bromophenyl-phenylether	10.70	248	17970	3.152	ng	# 1
71) Phenanthrene	11.42	178	157653	5.937	ng	98
75) Fluoranthene	12.62	202	244359	9.118	ng	99
78) Pyrene	12.84	202	241210	10.293	ng	99
81) Benzo(a)anthracene	14.04	228	112202	5.586	ng	97
83) Chrysene	14.07	228	100041	5.201	ng	99
86) Indeno(1,2,3-cd)pyrene	17.06	276	46728	2.851	ng	95
88) Benzo(b)fluoranthene	15.10	252	166434	7.695	ng	# 95
89) Benzo(k)fluoranthene	15.10	252	166434	8.015	ng	# 96
90) Benzo(a)pyrene	15.48	252	90517	4.751	ng	95
92) Benzo(a,h,i)perylene	17.52	276	43929	2.751	ng	95

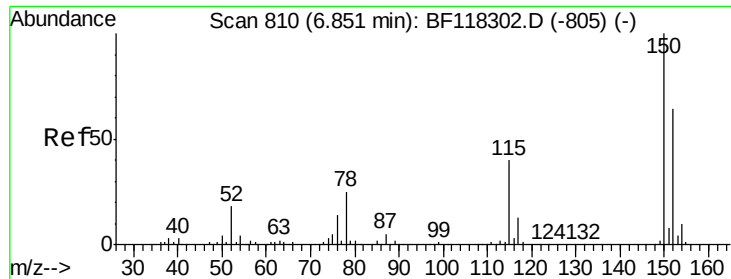
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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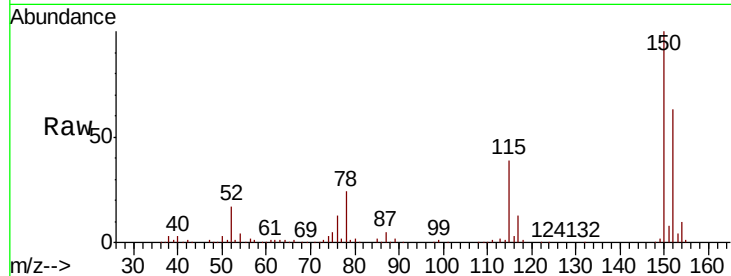


#1

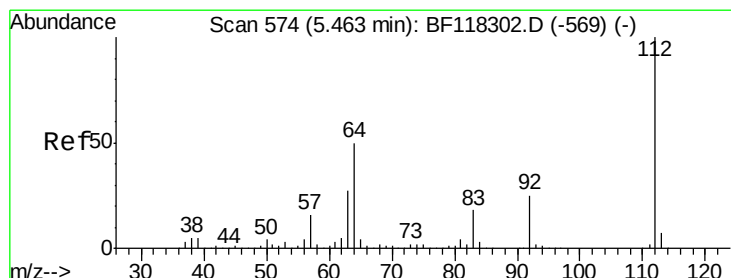
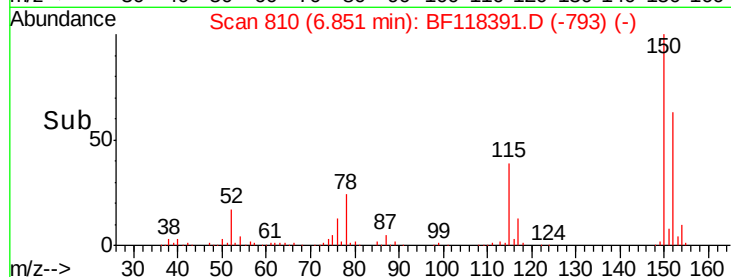
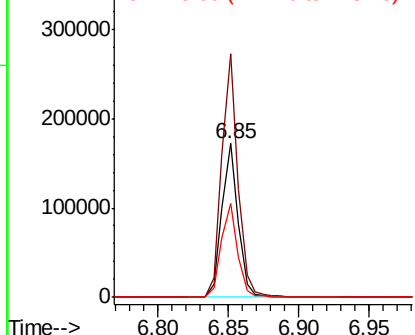
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 138346
Ion Ratio Lower Upper
152 100
150 158.6 125.4 188.2
115 61.3 50.2 75.4



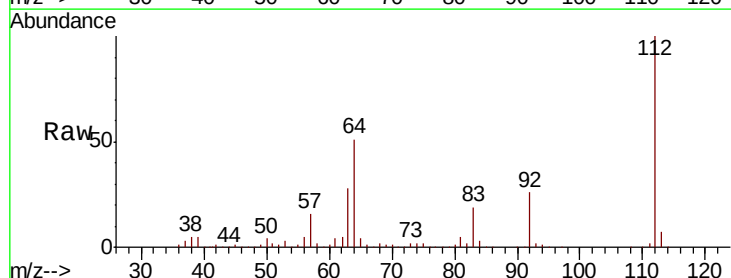
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



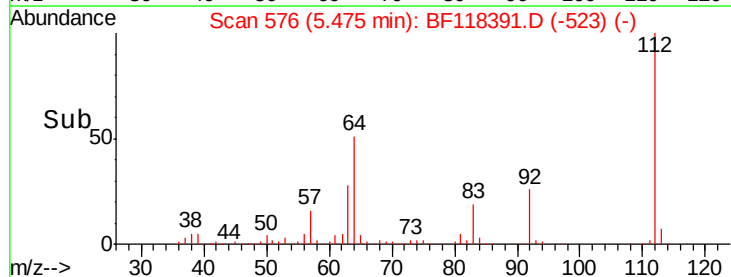
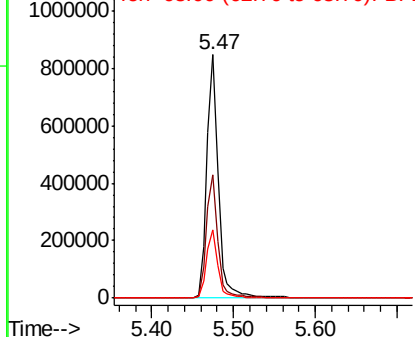
#5

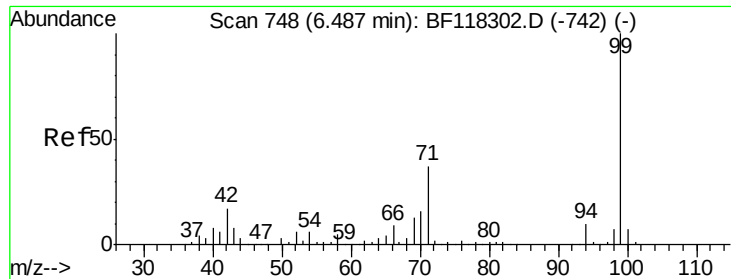
2-Fluorophenol
Concen: 103.072 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion:112 Resp: 835364
Ion Ratio Lower Upper
112 100
64 50.8 39.7 59.5
63 28.1 21.7 32.5



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: 108.863 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

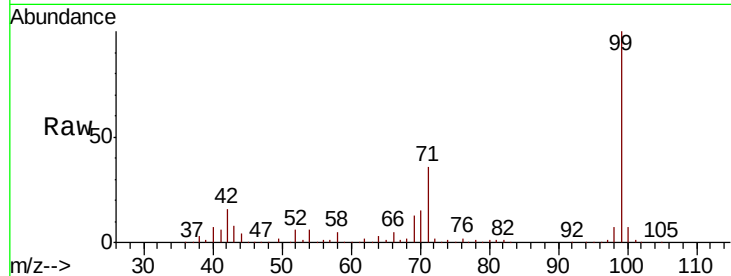
Instrument :

BNA_F

ClientSampled :

Tot Ion: 99 Resp: 1094514

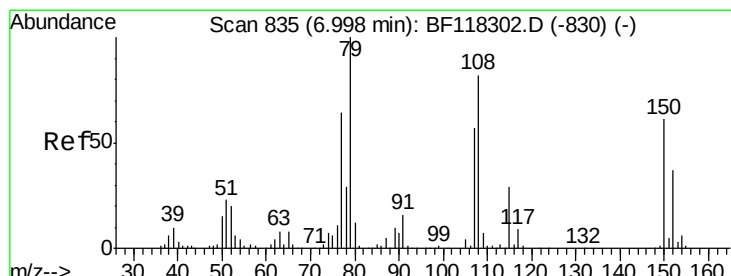
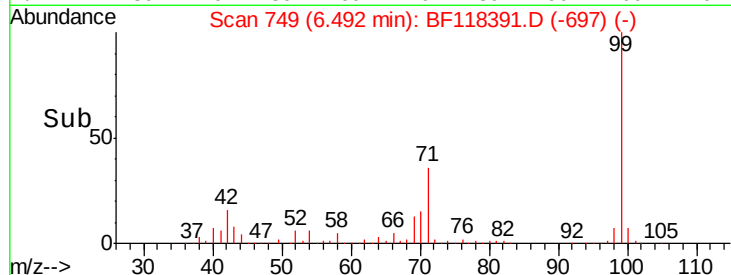
Ion	Ratio	Lower	Upper
99	100		
42	16.2	13.5	20.3
71	36.4	29.4	44.2



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



#15

Benzyl Alcohol

Concen: 25.544 ng

RT: 7.00 min Scan# 835

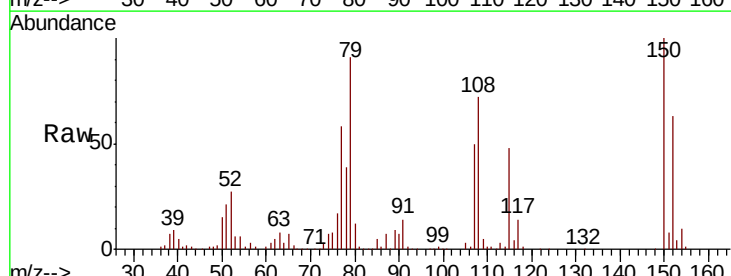
Delta R.T. -0.00 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Tgt Ion: 79 Resp: 195542

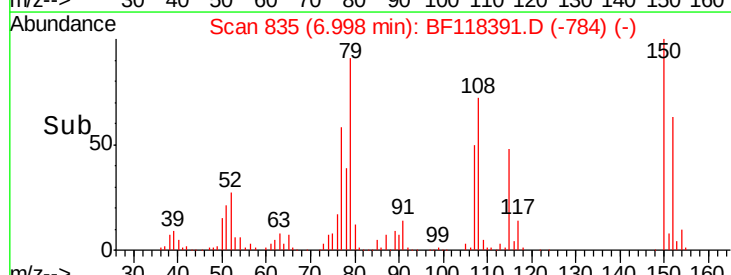
Ion	Ratio	Lower	Upper
79	100		
108	78.7	65.4	98.0
77	64.0	51.4	77.0

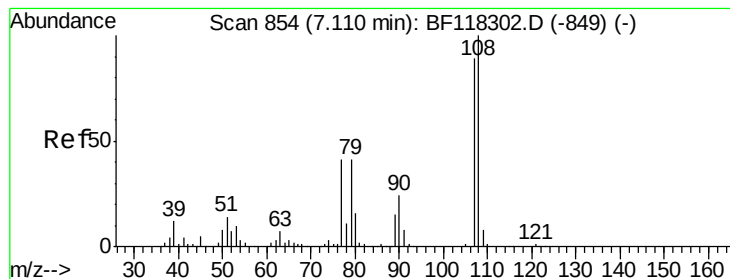


Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

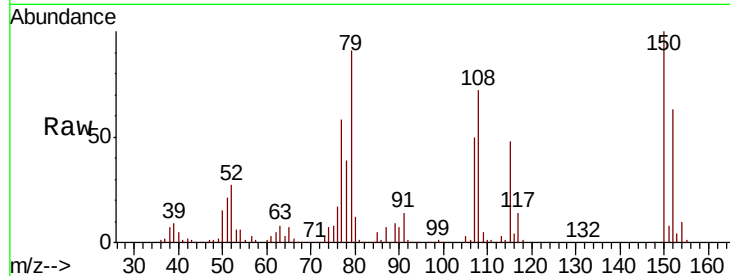




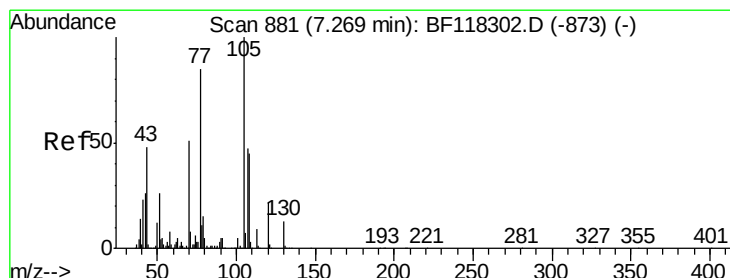
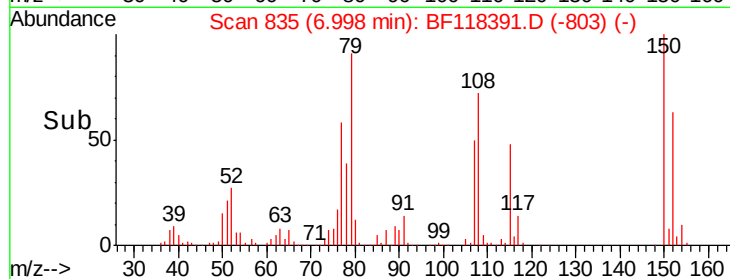
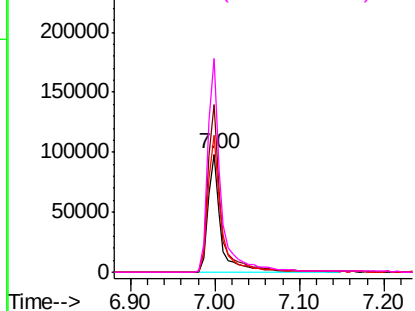
#17
2-Methylphenol
Concen: 14.238 ng
RT: 7.00 min Scan# 835
Delta R.T. -0.11 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampled :

Tot Ion:107 Resp: 104824
Ion Ratio Lower Upper
107 100
108 142.8 89.7 134.5#
77 116.1 37.2 55.8#
79 181.3 36.7 55.1#

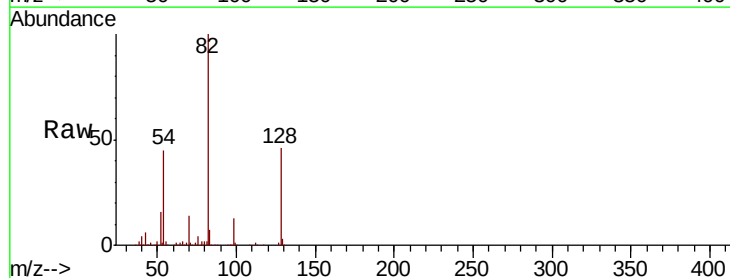


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

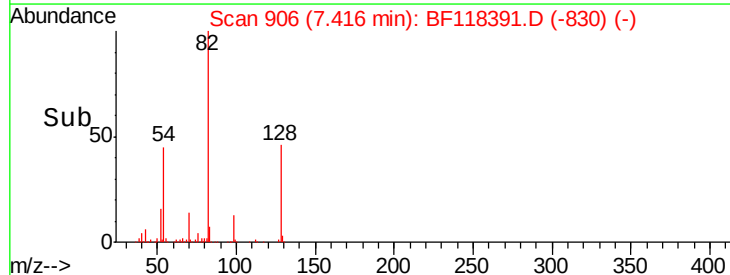
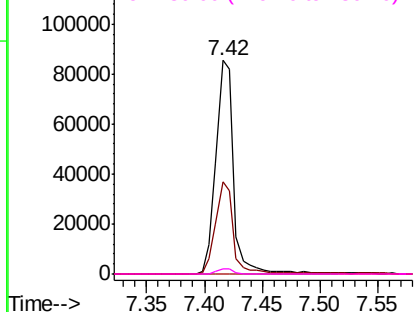


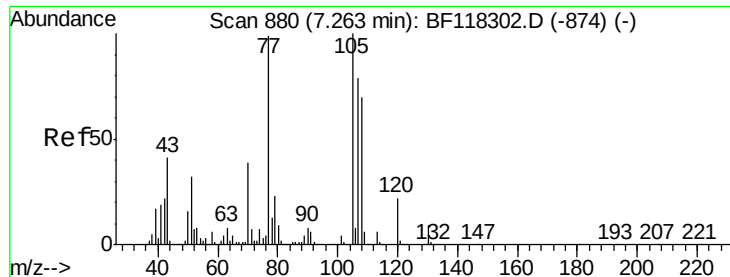
#19
n-Nitroso-di-n-propylamine
Concen: 14.865 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.15 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion: 70 Resp: 92068
Ion Ratio Lower Upper
70 100
42 43.3 41.1 61.7
101 0.0 8.3 12.5#
130 2.5 20.1 30.1#



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): E
Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 11.125 ng

RT: 7.00 min Scan# 835

Delta R.T. -0.26 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Instrument :

BNA_F

ClientSampled :

Tot Ion:107 Resp: 104823

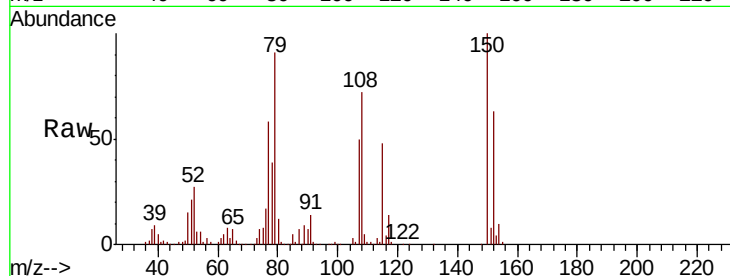
Ion Ratio Lower Upper

107 100

108 142.8 69.3 109.3#

77 116.1 105.9 145.9

79 181.3 9.2 49.2#



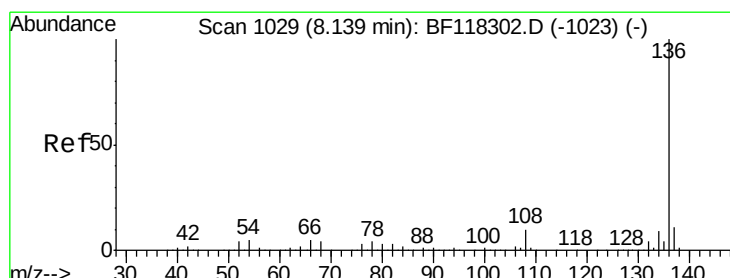
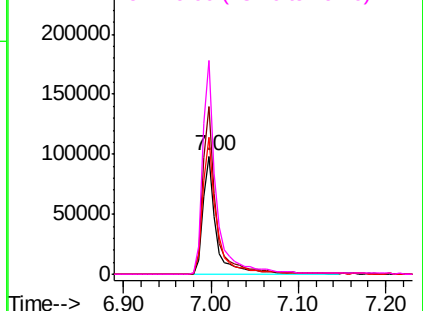
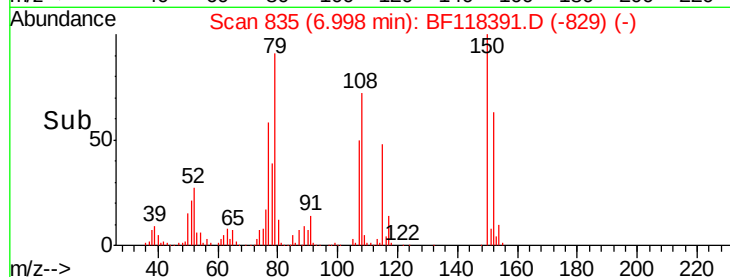
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.00 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Tgt Ion:136 Resp: 538890

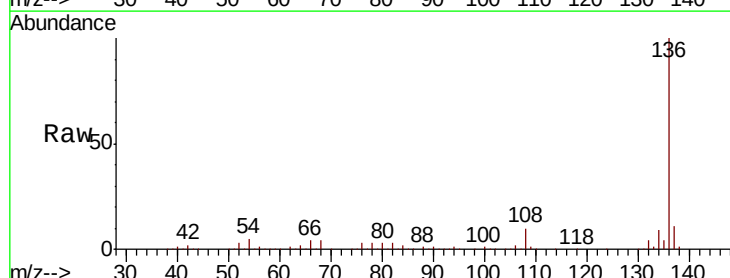
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 5.4 4.2 6.4

68 4.2 3.5 5.3



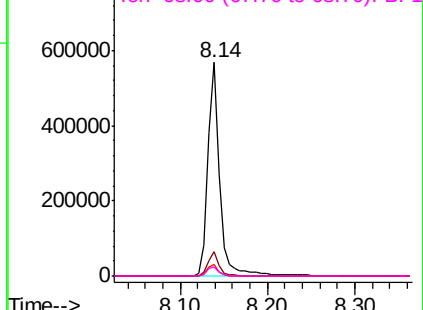
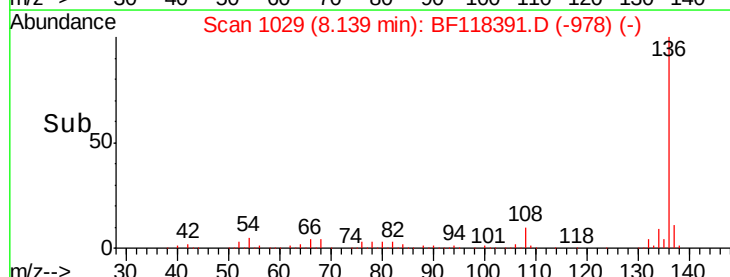
Abundance

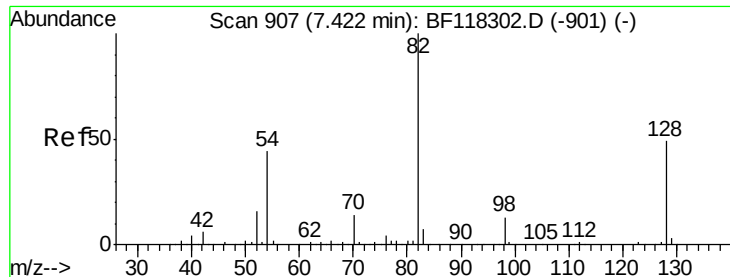
Ion 136.00 (135.70 to 136.70): E

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

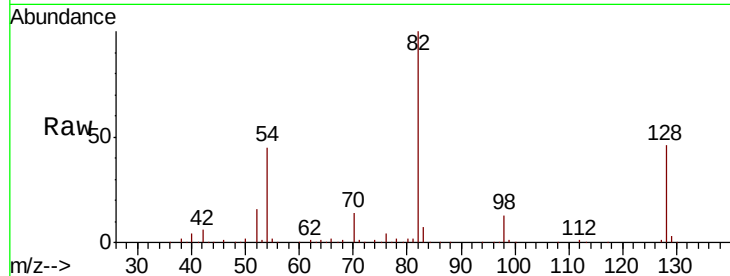




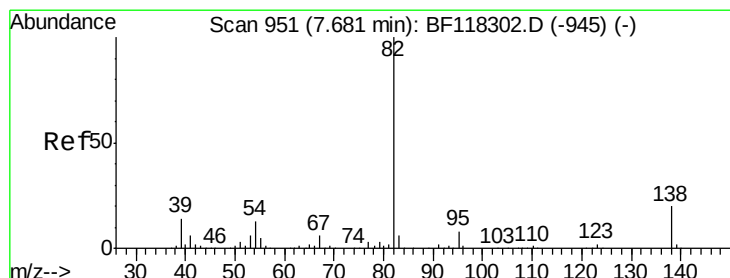
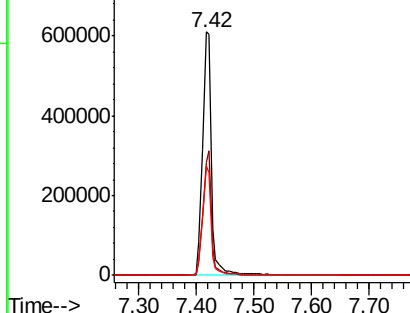
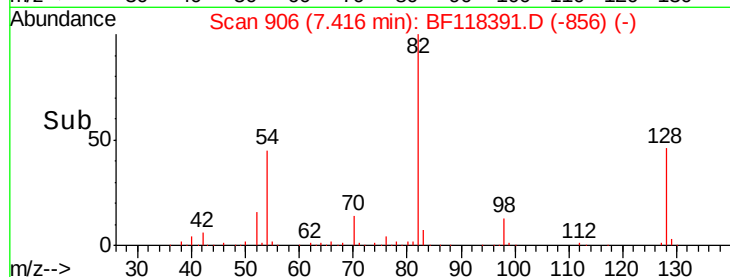
#23
 Nitrobenzene-d5
 Concen: 71.778 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	676289
Ion Ratio	Lower	Upper	
82	100		
128	46.2	39.6	59.4
54	44.8	34.9	52.3

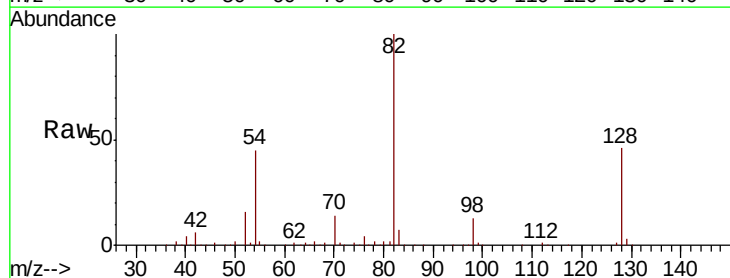


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

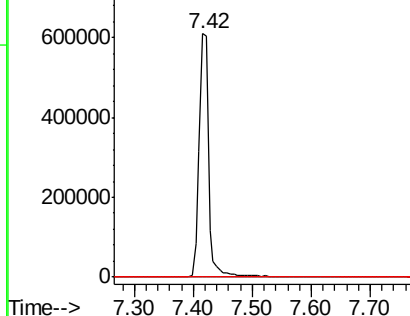
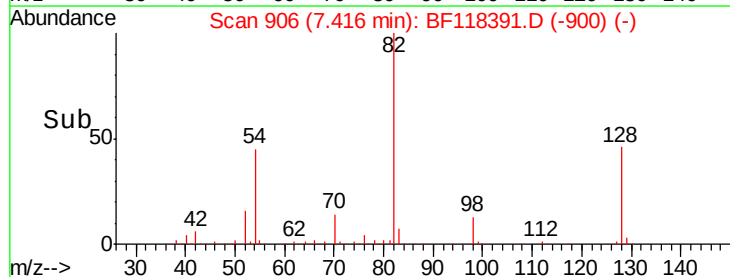


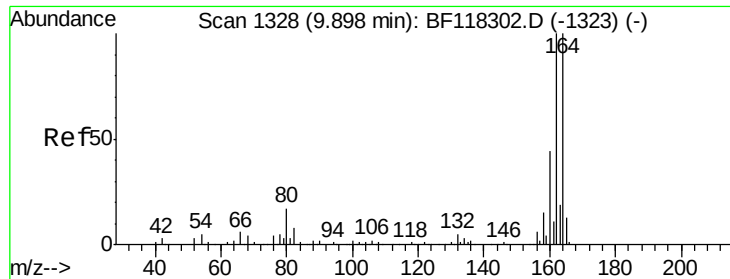
#25
 Isophorone
 Concen: 41.185 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.26 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

Tgt Ion	82	Resp	676286
Ion Ratio	Lower	Upper	
82	100		
95	0.0	6.3	9.5#
138	0.0	16.2	24.2#



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

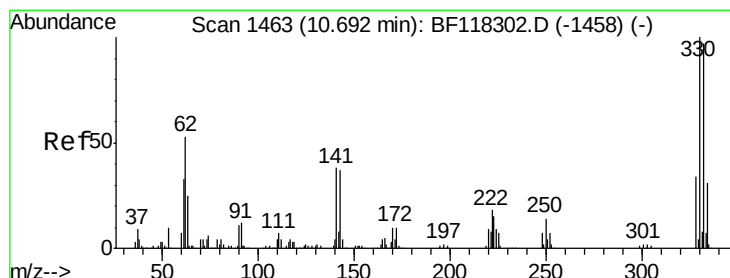
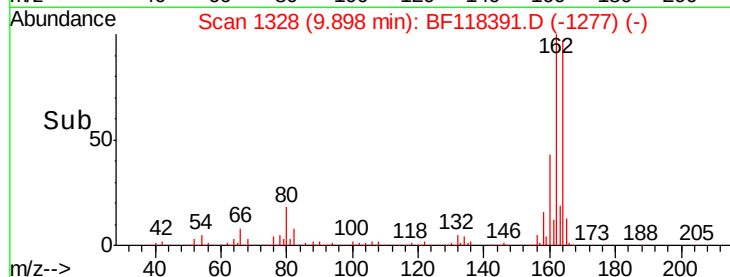
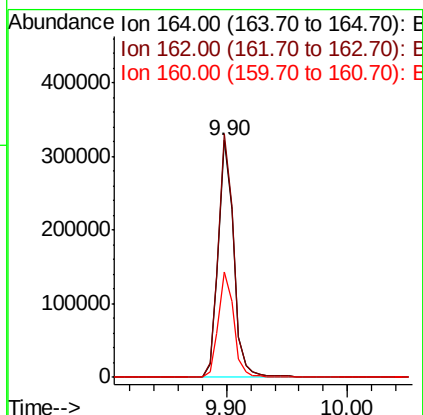
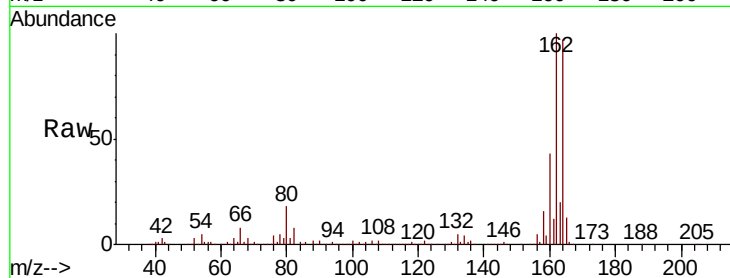




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.00 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

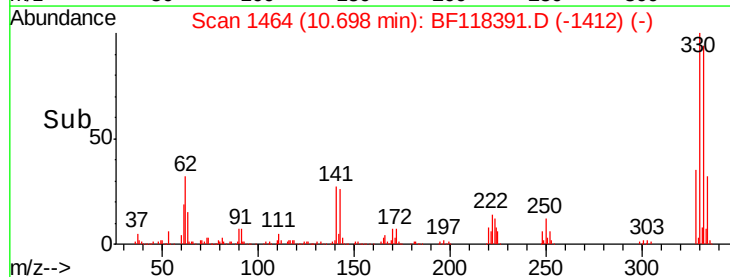
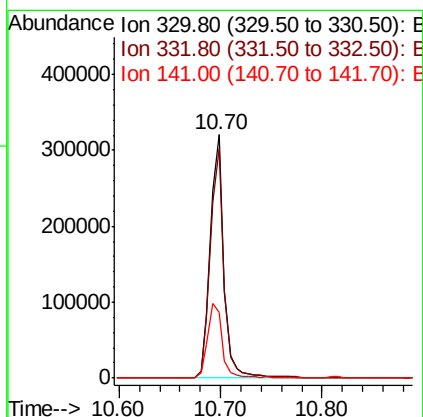
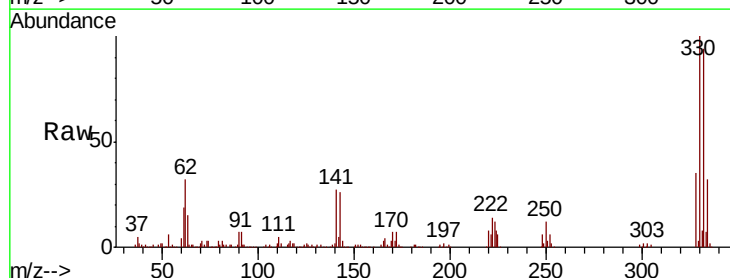
Instrument :
 BNA_F
 ClientSampleId :

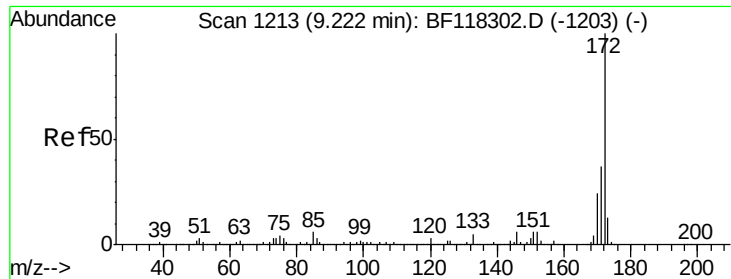
Tot Ion:164 Resp: 282014
 Ion Ratio Lower Upper
 164 100
 162 102.7 80.0 120.0
 160 44.2 34.8 52.2



#42
 2,4,6-Tribromophenol
 Concen: 86.427 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.01 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

Tgt Ion:330 Resp: 300996
 Ion Ratio Lower Upper
 330 100
 332 95.5 76.6 114.8
 141 33.8 26.0 39.0

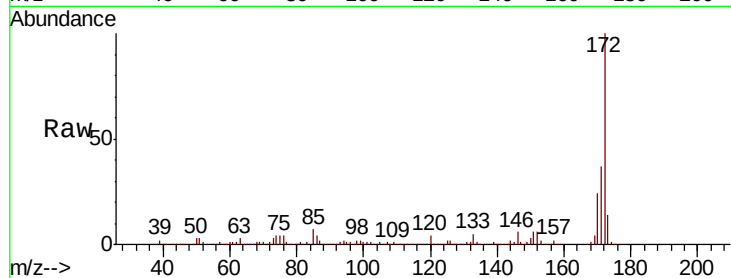




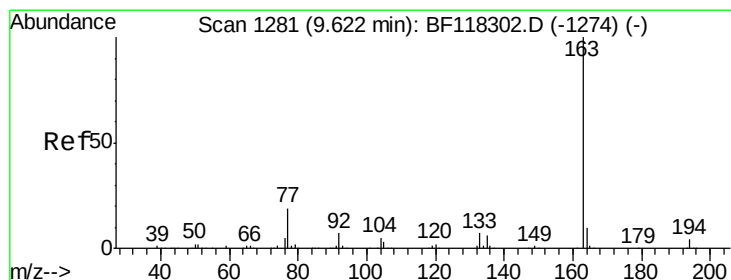
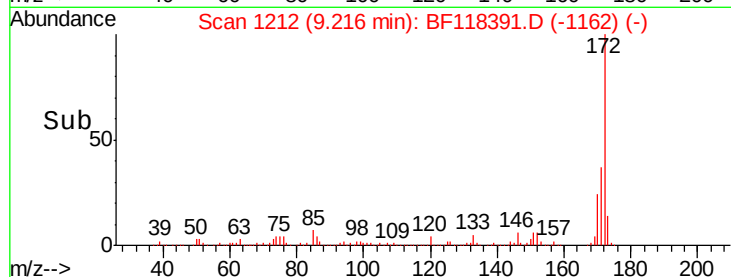
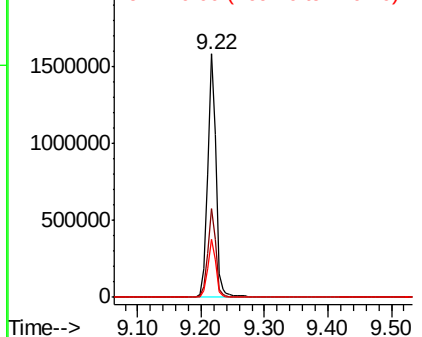
#45
2-Fluorobiphenyl
Concen: 76.636 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1415844
Ion Ratio Lower Upper
172 100
171 36.7 29.3 43.9
170 24.1 19.2 28.8

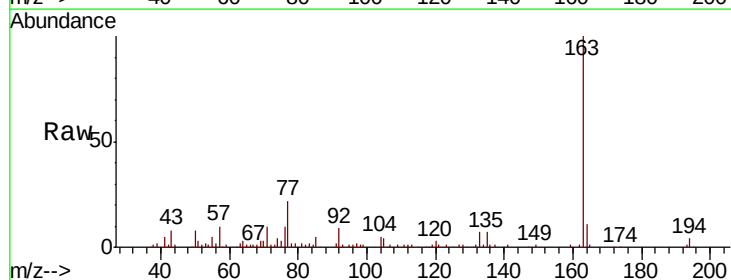


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

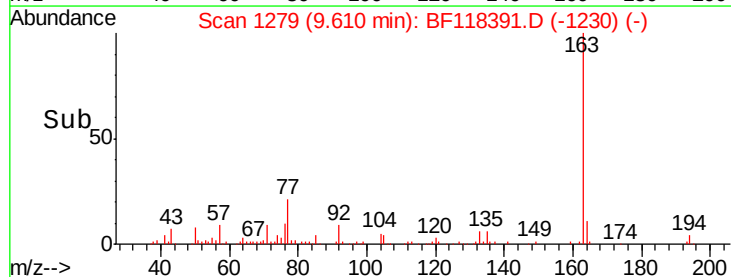
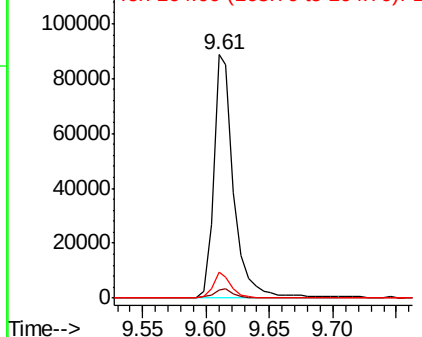


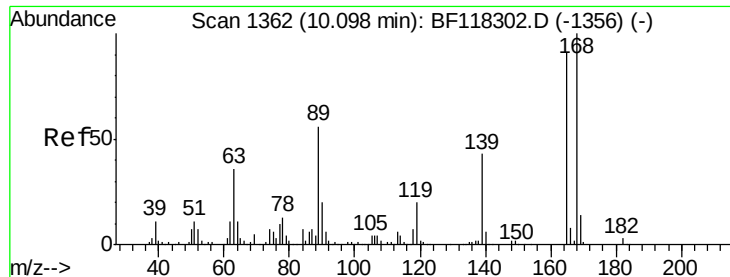
#50
Dimethylphthalate
Concen: 4.679 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion:163 Resp: 99048
Ion Ratio Lower Upper
163 100
194 3.5 3.2 4.8
164 10.6 7.9 11.9



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

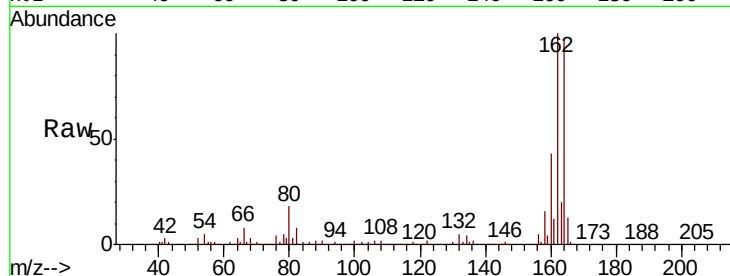




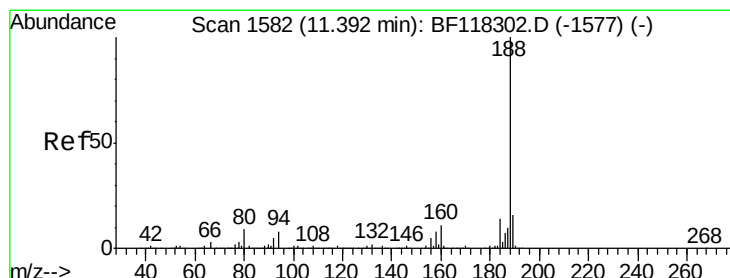
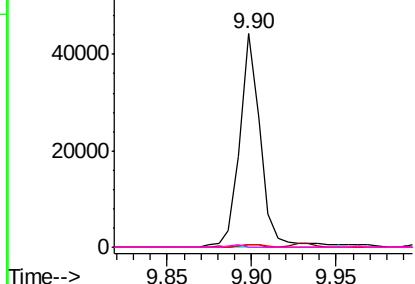
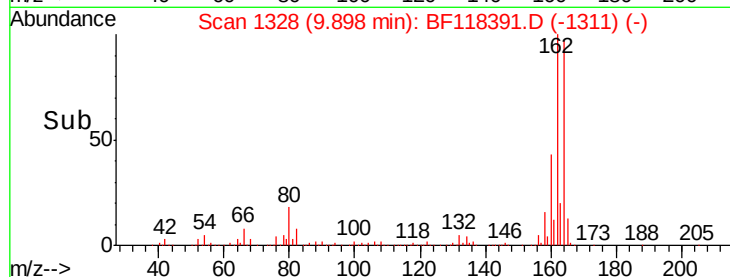
#57
2,4-Dinitrotoluene
Concen: 6.237 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.20 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 38036
Ion Ratio Lower Upper
165 100
63 1.3 32.0 48.0#
89 1.4 49.3 73.9#
182 0.0 2.4 3.6#

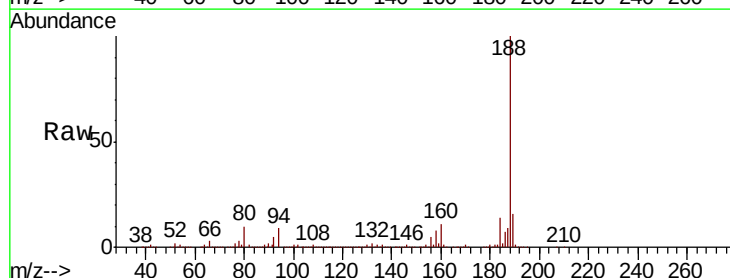


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

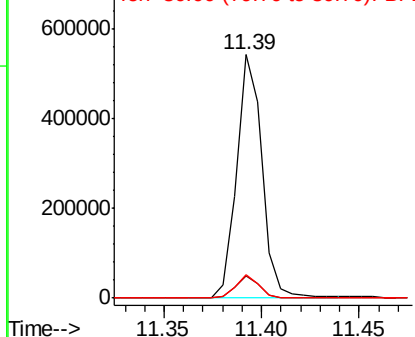
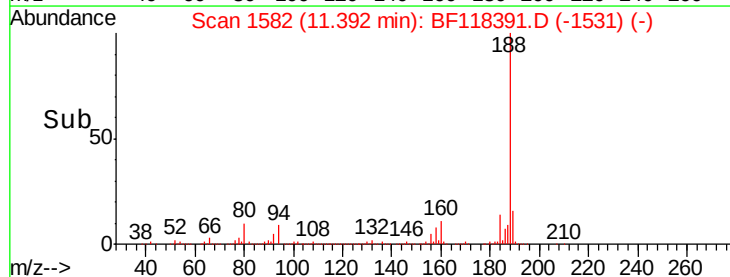


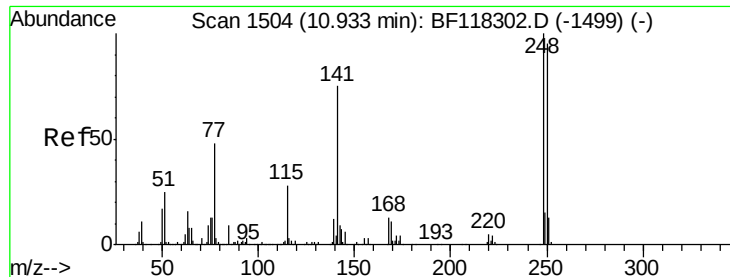
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion:188 Resp: 487132
Ion Ratio Lower Upper
188 100
94 9.2 6.7 10.1
80 9.5 7.2 10.8



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

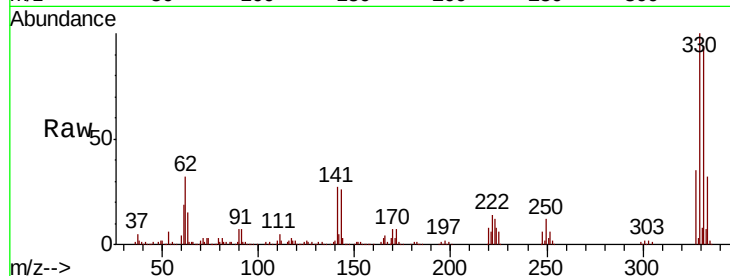




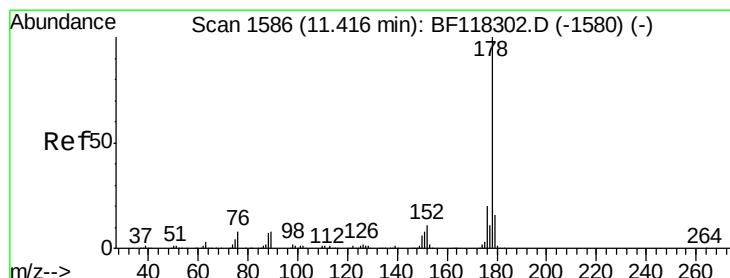
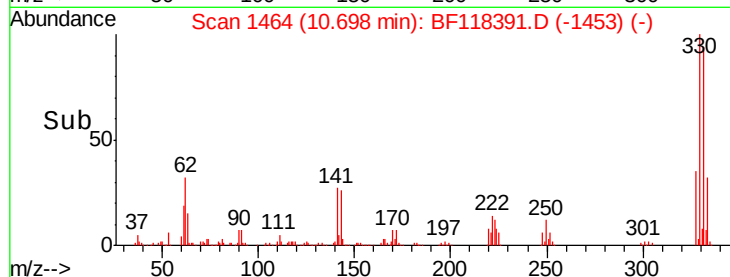
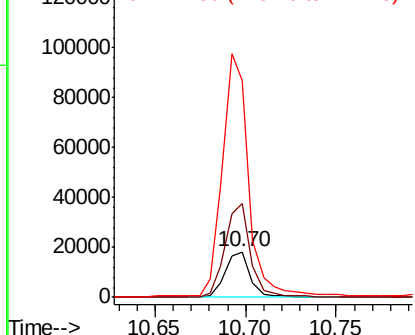
#67
 4-Bromophenyl-phenylether
 Concen: 3.152 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.24 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 17970
 Ion Ratio Lower Upper
 248 100
 250 208.1 76.4 114.6#
 141 476.6 60.2 90.2#

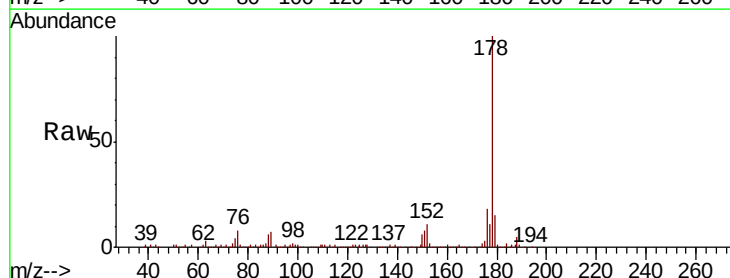


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

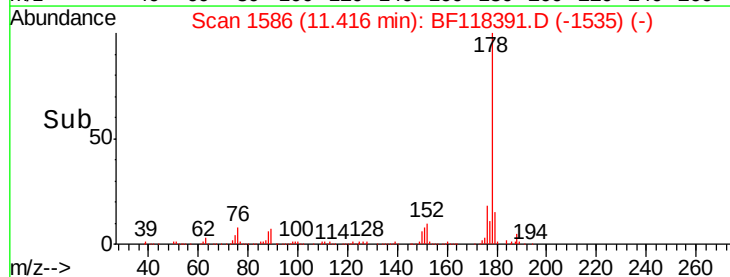
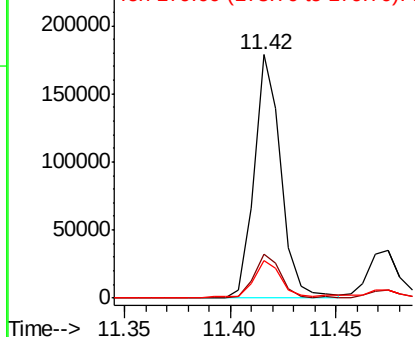


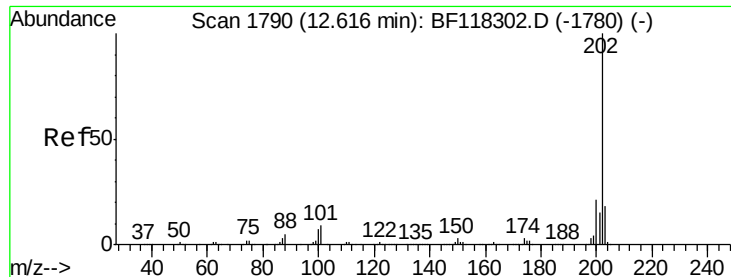
#71
 Phenanthrene
 Concen: 5.937 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF118391.D
 Acq: 30 Dec 2019 20:01

Tgt Ion:178 Resp: 157653
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.6 23.4
 179 15.3 12.6 19.0



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





#75

Fluoranthene

Concen: 9.118 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Instrument :

BNA_F

ClientSampleId :

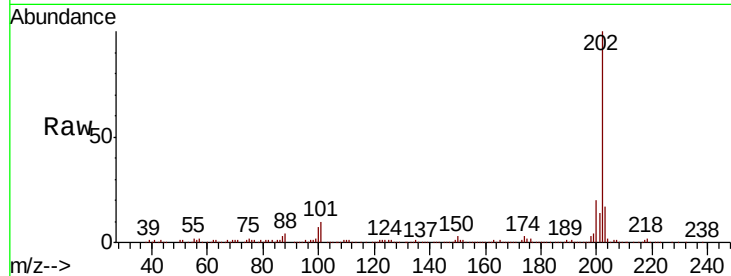
Tot Ion:202 Resp: 244359

Ion Ratio Lower Upper

202 100

101 9.6 0.0 29.5

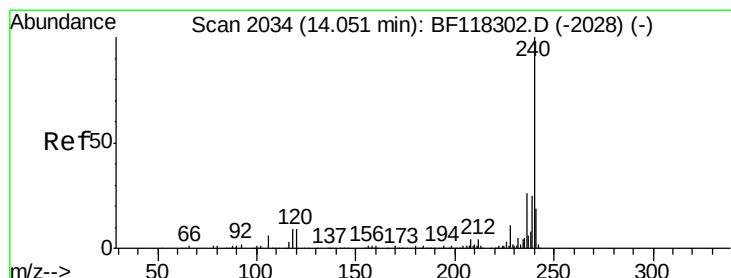
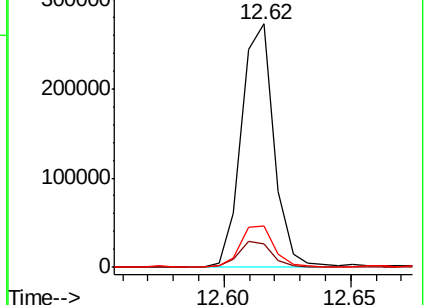
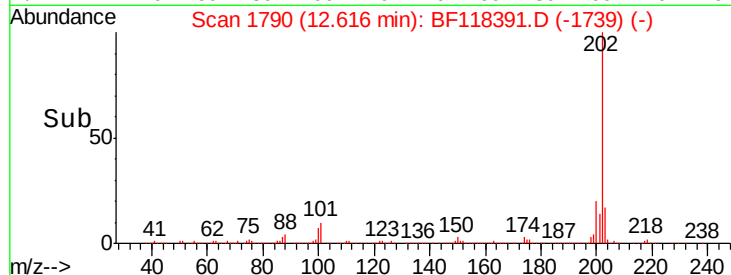
203 17.0 0.0 37.6



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

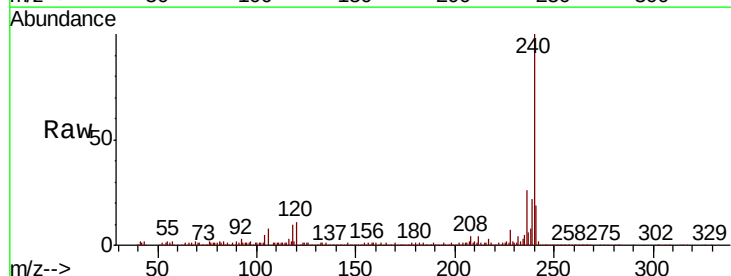
Tgt Ion:240 Resp: 286985

Ion Ratio Lower Upper

240 100

120 10.8 7.1 10.7#

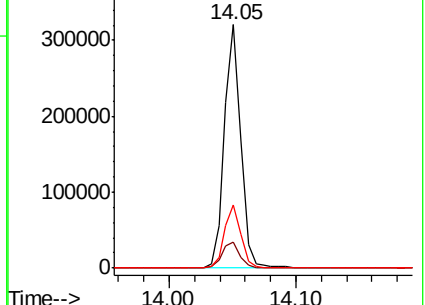
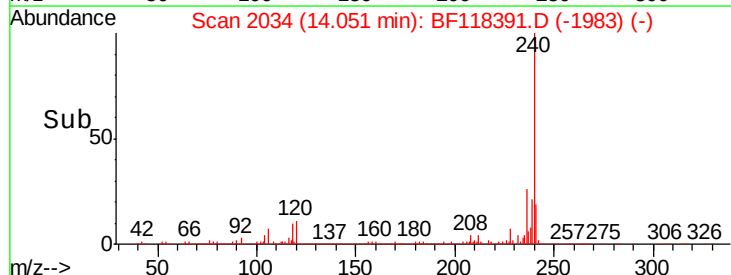
236 26.0 21.0 31.6

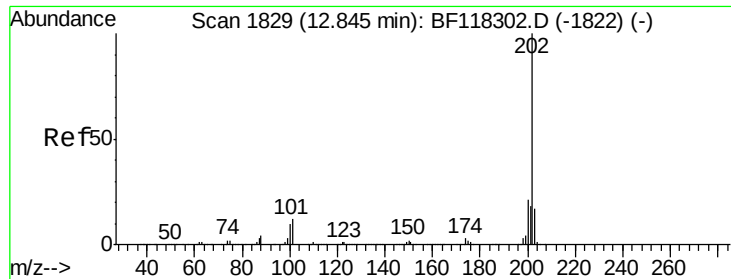


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

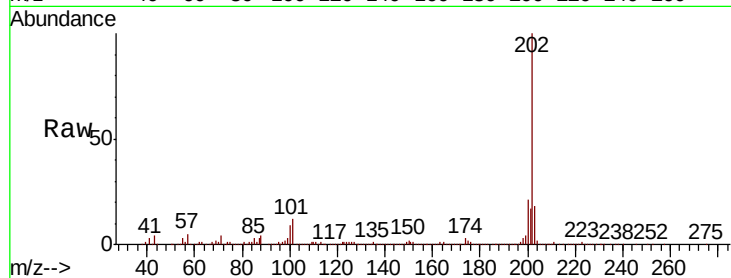




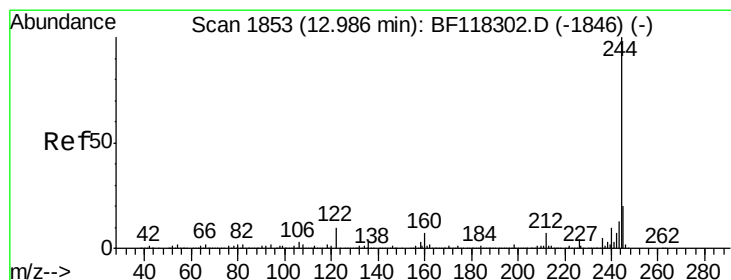
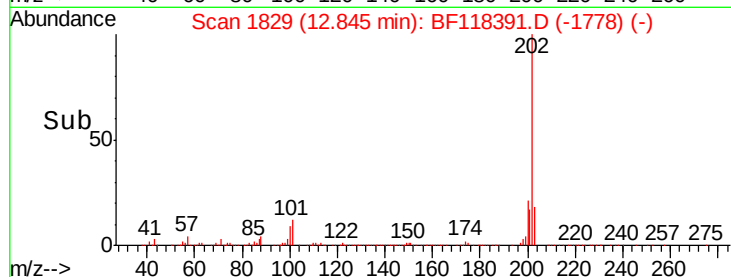
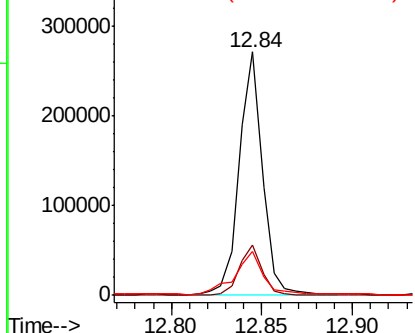
#78
Pvrene
Concen: 10.293 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	18.2	13.9	20.9

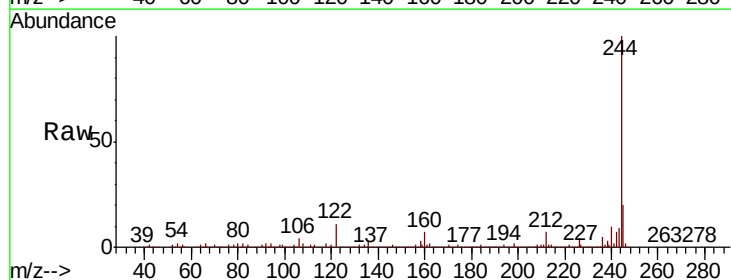


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

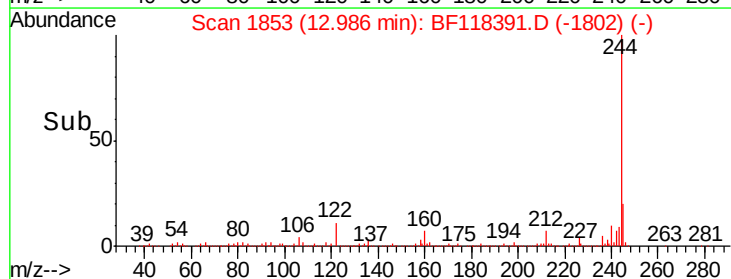
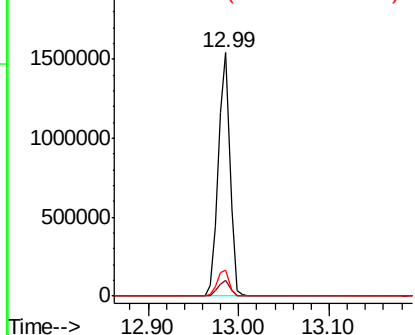


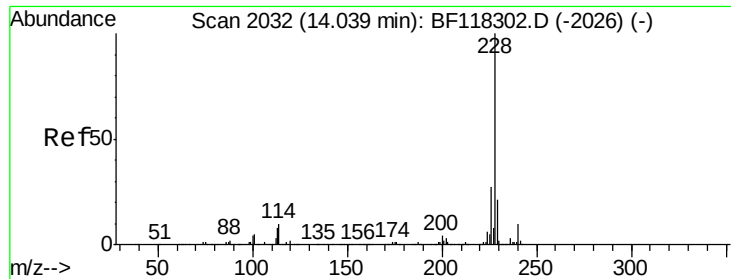
#79
Terphenyl-d14
Concen: 78.248 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.7	7.8	11.8



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

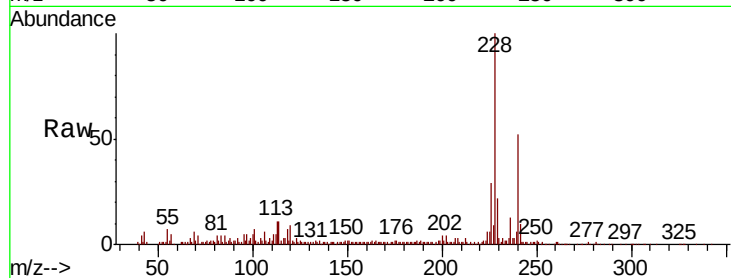




#81
Benzo(a)anthracene
Concen: 5.586 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.0	33.0
229	21.9	16.6	24.8

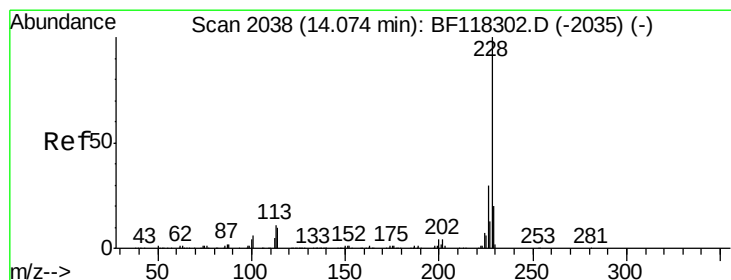
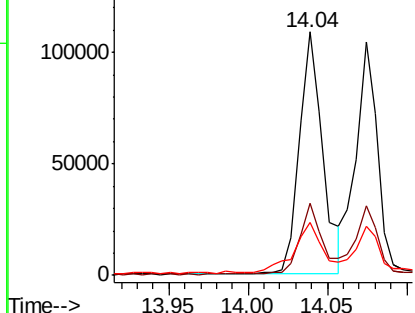
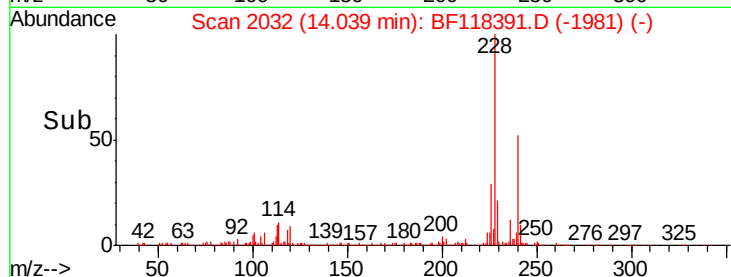


Abundance

Ion 228.00 (227.70 to 228.70): E

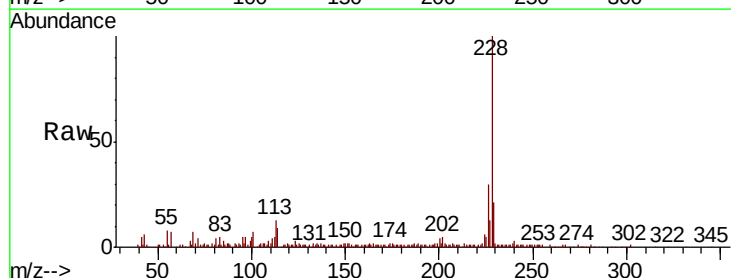
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 5.201 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.9	35.9
229	21.2	16.1	24.1

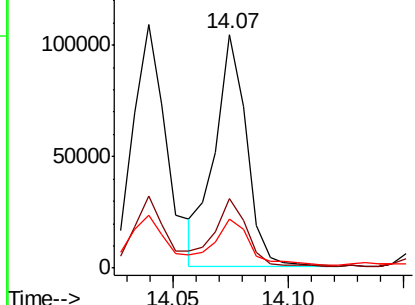
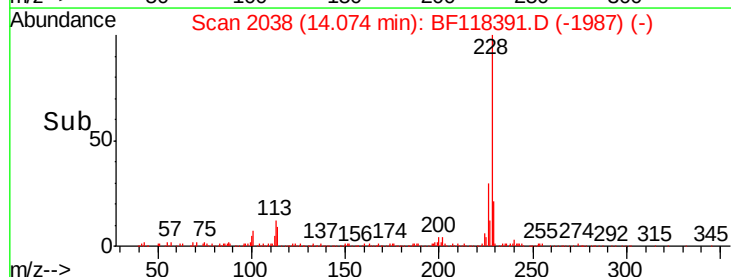


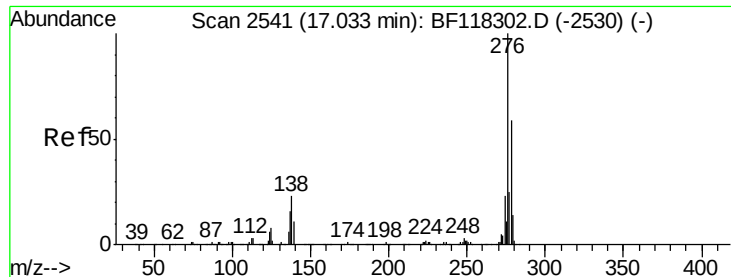
Abundance

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





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.851 ng

RT: 17.06 min Scan# 2545

Delta R.T. 0.02 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Instrument :

BNA_F

ClientSampleId :

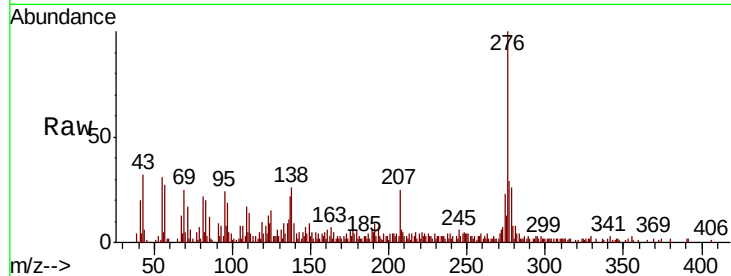
Tot Ion:276 Resp: 46728

Ion Ratio Lower Upper

276 100

138 20.5 19.5 29.3

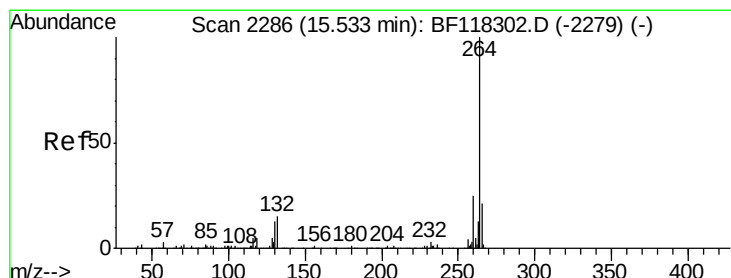
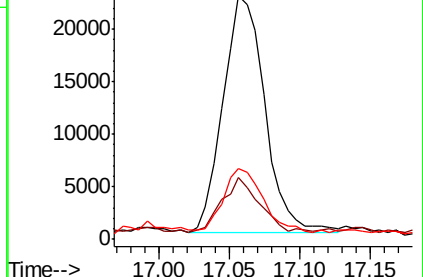
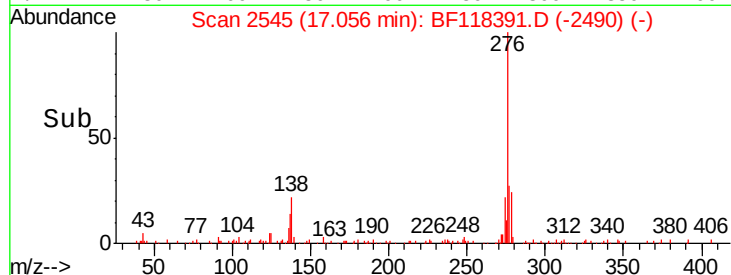
277 25.0 20.6 30.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. 0.01 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

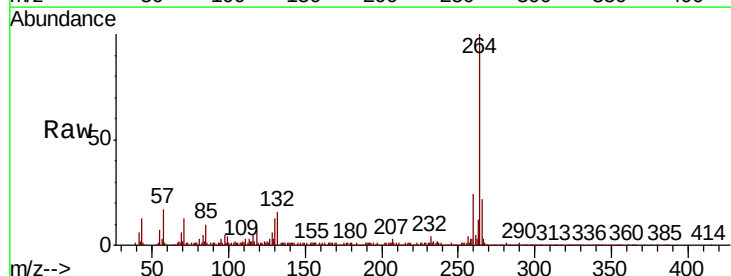
Tgt Ion:264 Resp: 325816

Ion Ratio Lower Upper

264 100

260 23.9 19.8 29.6

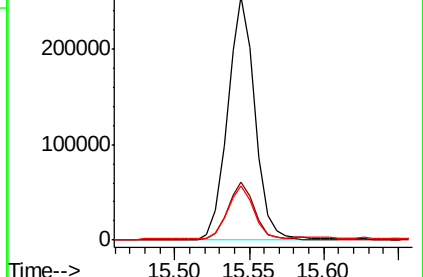
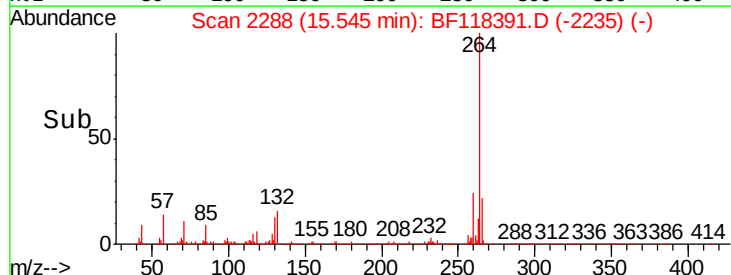
265 22.1 17.0 25.4

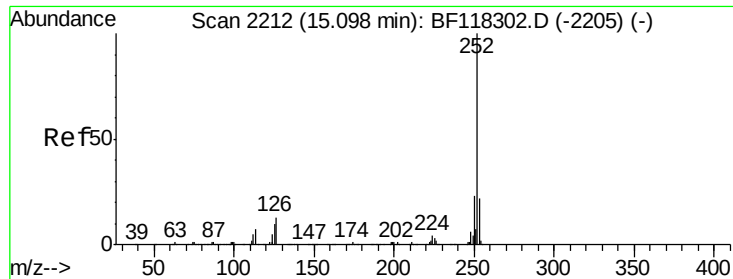


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

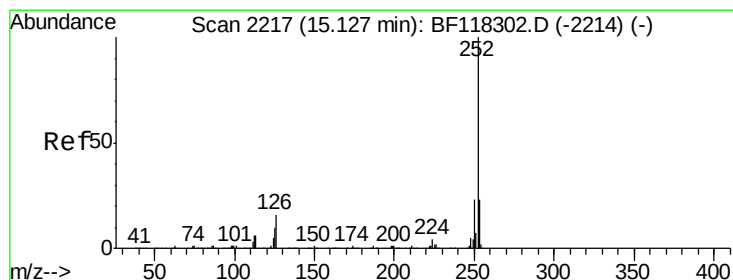
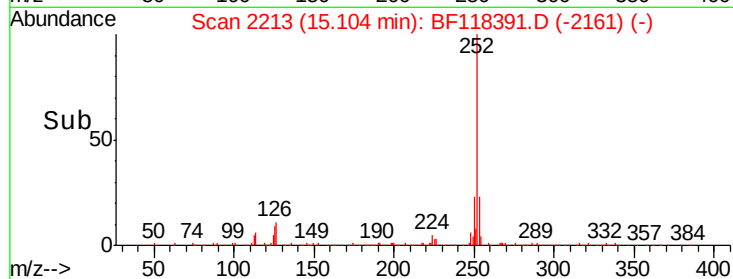
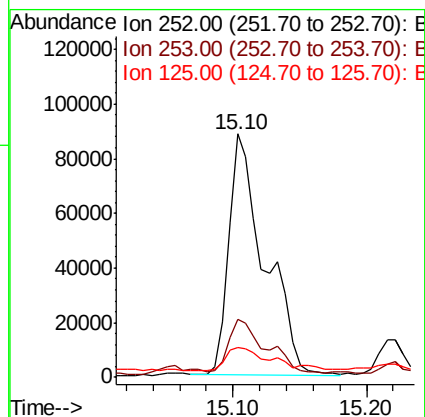
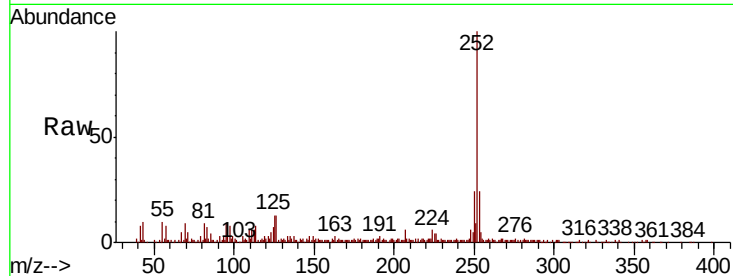




#88
Benzo(b)fluoranthene
Concen: 7.695 ng
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

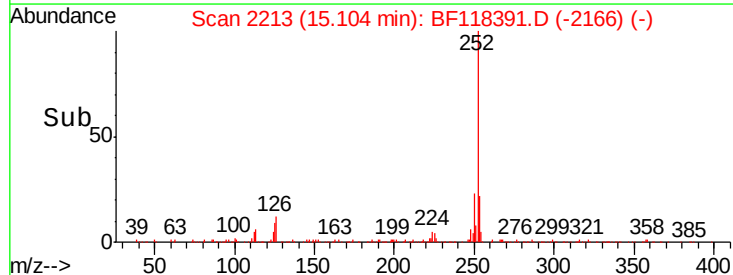
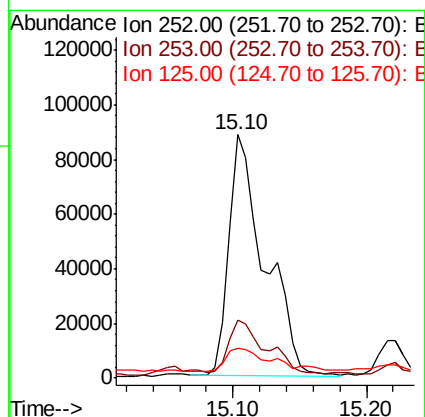
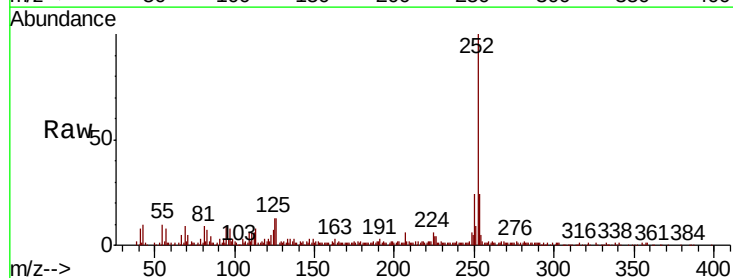
Instrument :
BNA_F
ClientSampled :

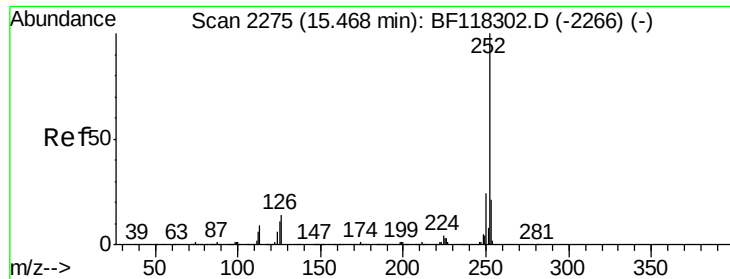
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	12.5	7.7	11.5



#89
Benzo(k)fluoranthene
Concen: 8.015 ng
RT: 15.10 min Scan# 2213
Delta R.T. -0.02 min
Lab File: BF118391.D
Acq: 30 Dec 2019 20:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.0	27.0
125	12.5	8.0	12.0





#90

Benzo(a)pyrene

Concen: 4.751 ng

RT: 15.48 min Scan# 2277

Delta R.T. 0.01 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

Instrument :

BNA_F

ClientSampled :

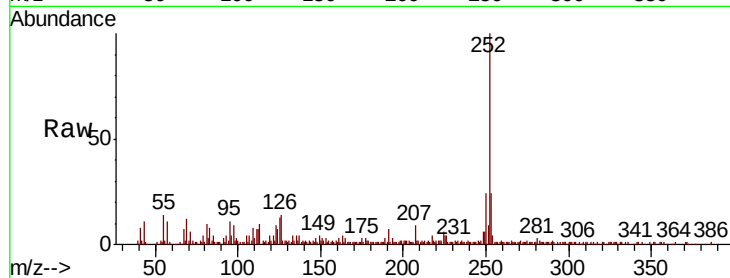
Tot Ion:252 Resp: 90517

Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.6

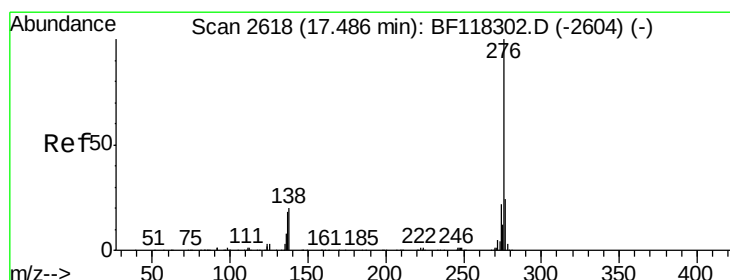
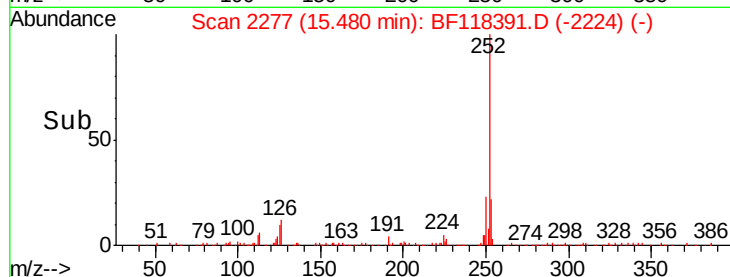
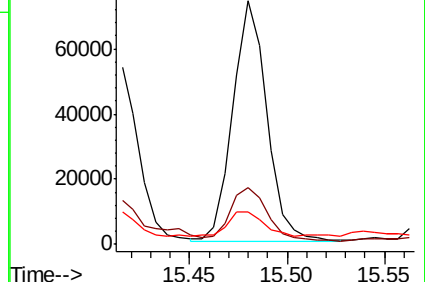
125 13.2 9.0 13.4



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: 2.751 ng

RT: 17.52 min Scan# 2624

Delta R.T. 0.04 min

Lab File: BF118391.D

Acq: 30 Dec 2019 20:01

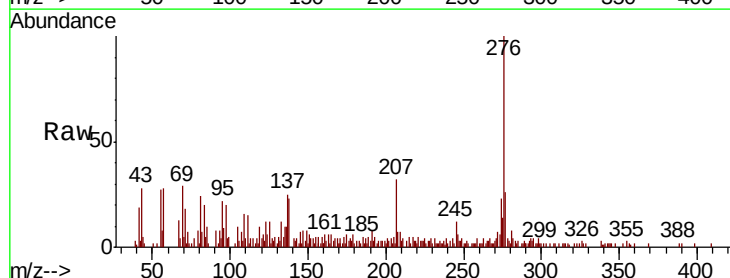
Tgt Ion:276 Resp: 43929

Ion Ratio Lower Upper

276 100

277 25.8 19.1 28.7

138 22.9 16.1 24.1



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

