

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\
 Data File : BF116542.D
 Acq On : 25 Aug 2019 19:51
 Operator : HP/JU
 Sample : K4403-13
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 26 06:30:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	138440	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	532159	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	248765	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	368044	20.00	ng	0.00
76) Chrysene-d12	14.03	240	202246	20.00	ng	0.00
87) Perylene-d12	15.50	264	206710	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	631255	66.62	ng	0.02
7) Phenol-d6	6.52	99	860168	74.04	ng	0.01
23) Nitrobenzene-d5	7.44	82	519535	53.41	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	142245	66.59	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	739551	47.88	ng	0.00
79) Terphenyl-d14	12.98	244	563718	52.06	ng	0.00

Target Compounds

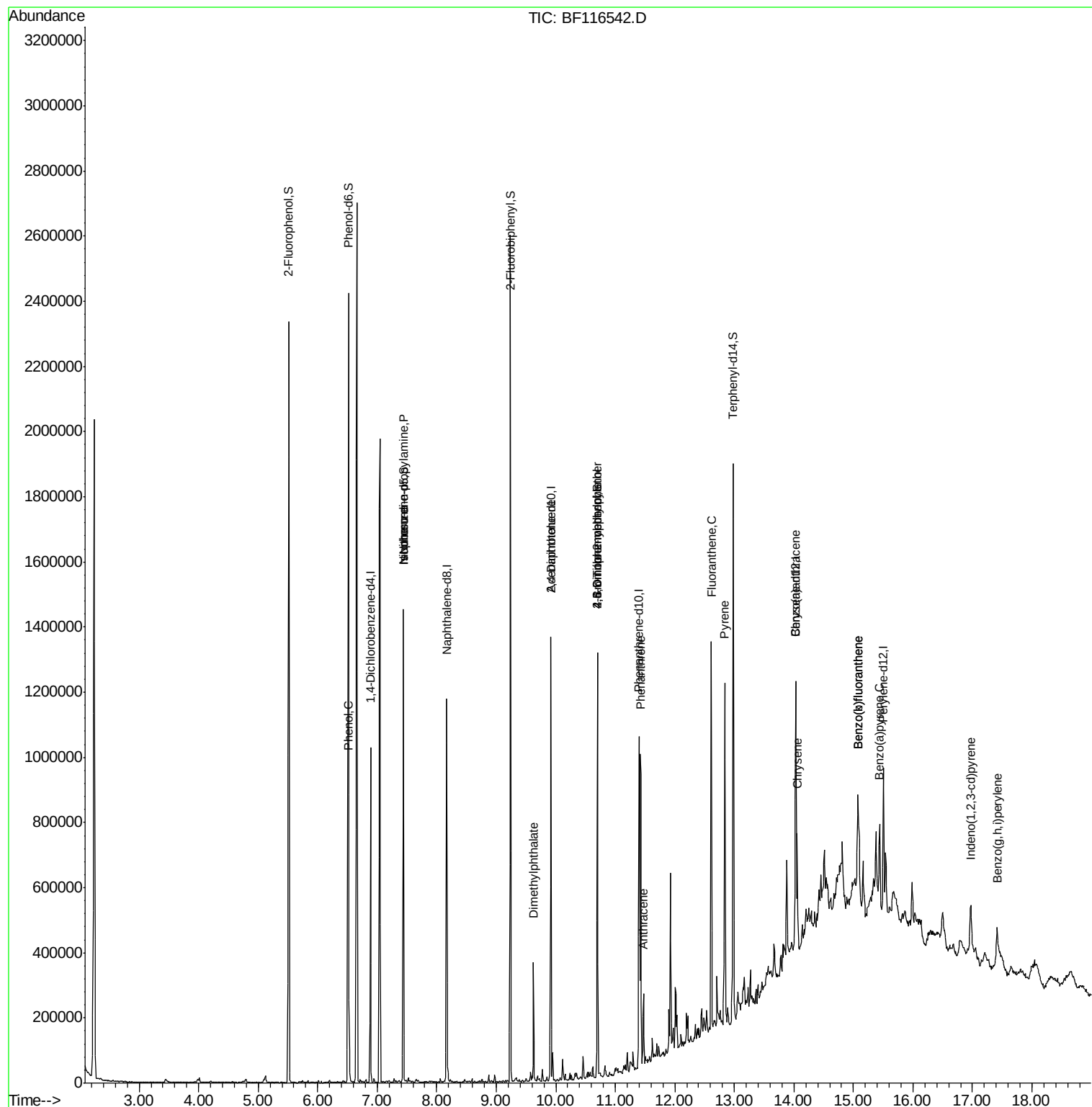
						Qvalue
10) Phenol	6.53	94	25951	2.057	ng	96
19) n-Nitroso-di-n-propylamine	7.44	70	70422	8.883	ng	# 76
25) Isophorone	7.44	82	517077	26.975	ng	# 67
50) Dimethylphthalate	9.63	163	126626	7.296	ng	100
57) 2,4-Dinitrotoluene	9.92	165	32535	7.197	ng	# 21
65) 4,6-Dinitro-2-methylphenol	10.70	198	292	7.171	ng	# 1
67) 4-Bromophenyl-phenylether	10.70	248	9989	2.589	ng	# 1
71) Phenanthrene	11.43	178	359967	17.954	ng	97
72) Anthracene	11.47	178	73094	3.628	ng	99
75) Fluoranthene	12.62	202	474035	22.869	ng	99
78) Pyrene	12.84	202	419456	25.934	ng	99
81) Benzo(a)anthracene	14.03	228	168013	12.827	ng	99
83) Chrysene	14.06	228	152406	11.479	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	70572	6.205	ng	# 93
88) Benzo(b)fluoranthene	15.07	252	217053	16.998	ng	97
89) Benzo(k)fluoranthene	15.07	252	217053	18.762	ng	# 95
90) Benzo(a)pyrene	15.44	252	119211	10.563	ng	# 96
92) Benzo(a,h,i)perylene	17.42	276	66133	7.480	ng	95

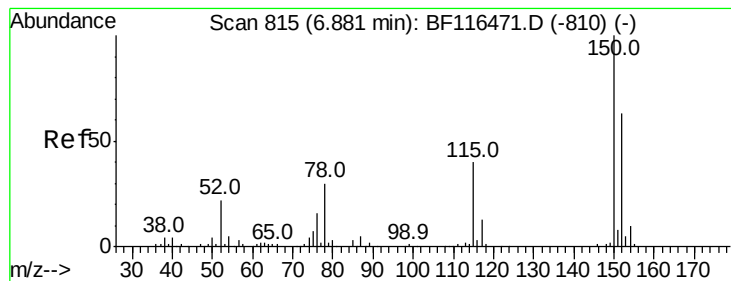
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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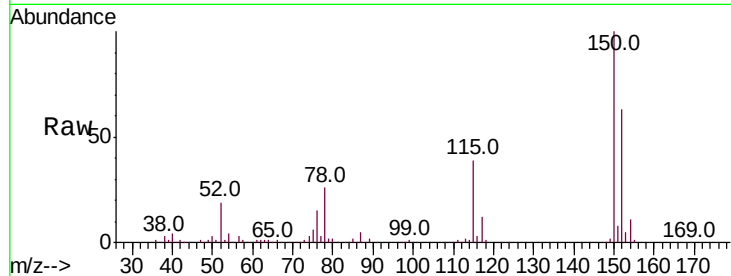


#1

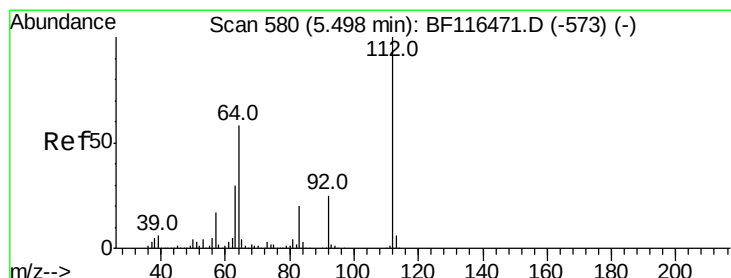
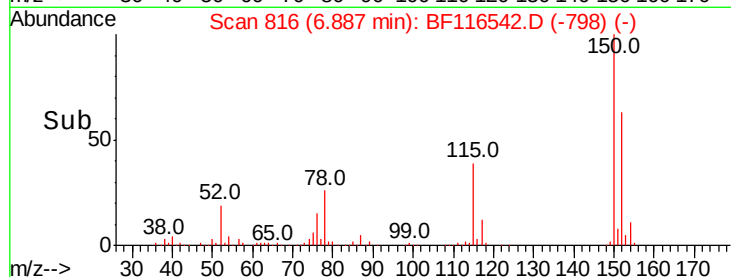
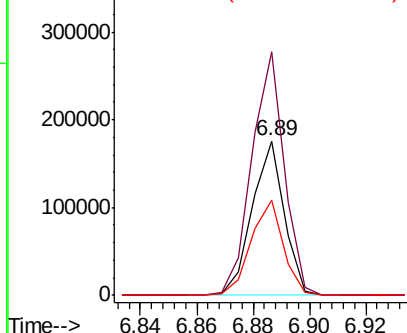
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 138440
Ion Ratio Lower Upper
152 100
150 157.6 126.7 190.1
115 61.2 50.9 76.3



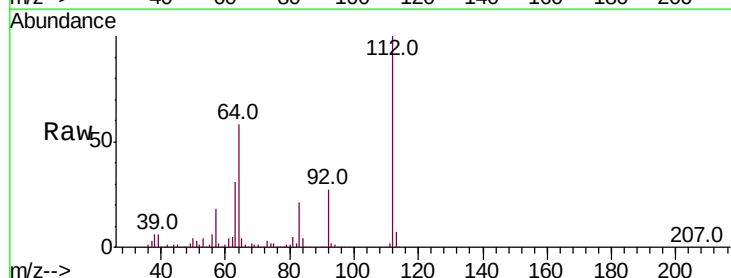
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



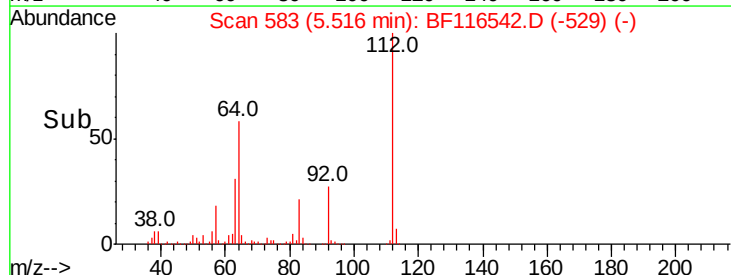
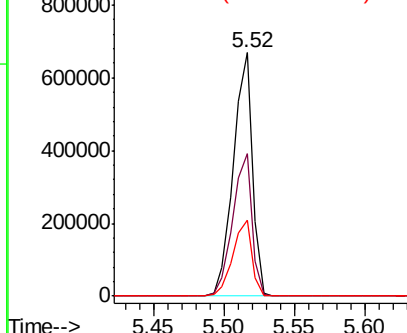
#5

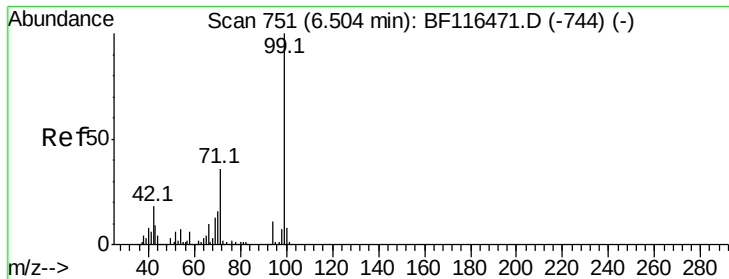
2-Fluorophenol
Concen: 66.625 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.02 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion:112 Resp: 631255
Ion Ratio Lower Upper
112 100
64 58.3 46.3 69.5
63 31.1 24.2 36.4



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: 74.041 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampled :

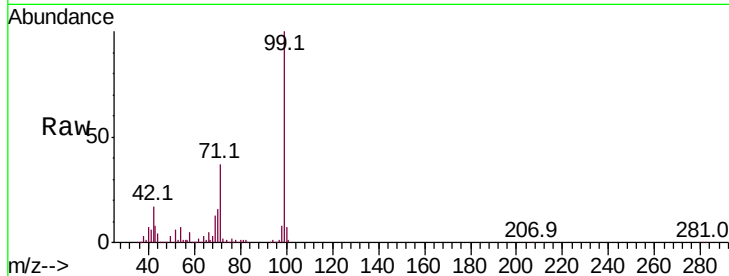
Tot Ion: 99 Resp: 860168

Ion Ratio Lower Upper

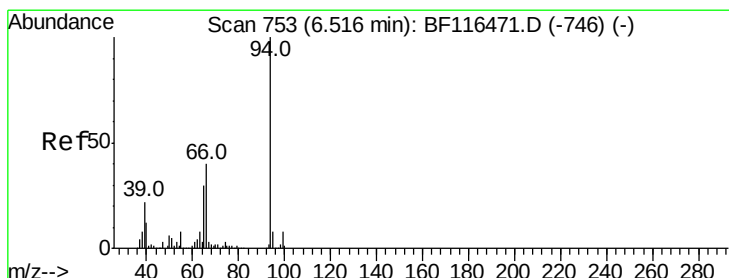
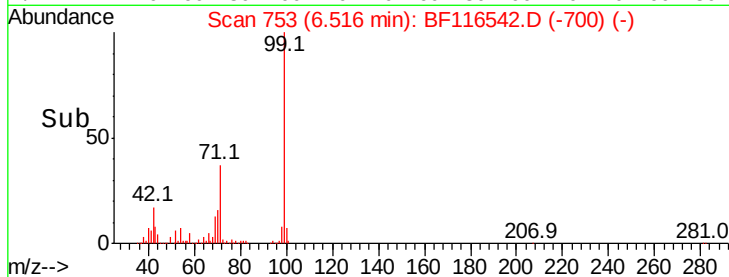
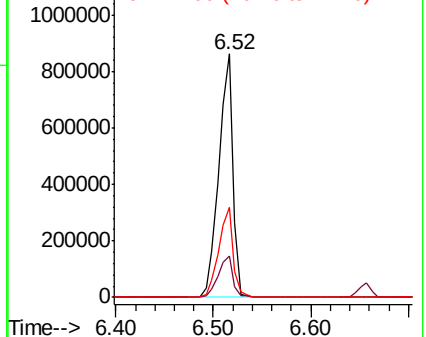
99 100

42 17.2 14.6 21.8

71 36.7 28.5 42.7



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



#10

Phenol

Concen: 2.057 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

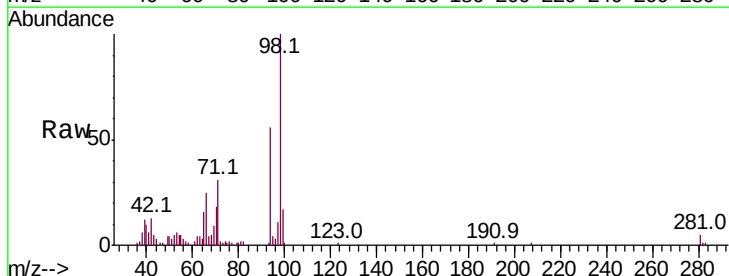
Tgt Ion: 94 Resp: 25951

Ion Ratio Lower Upper

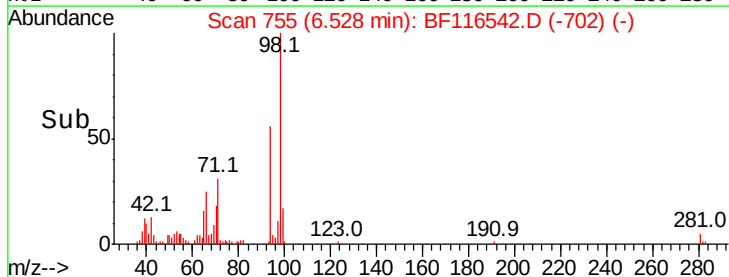
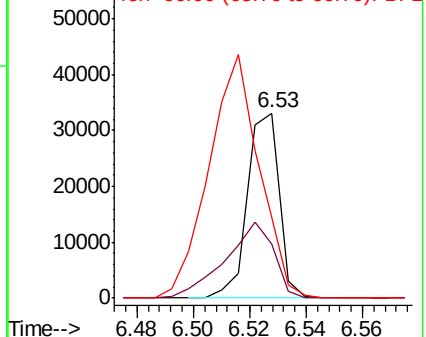
94 100

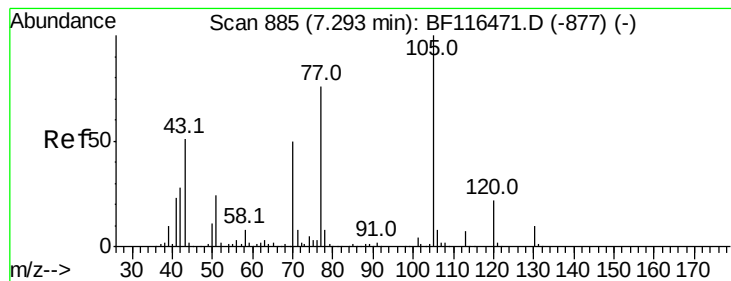
65 29.1 10.0 50.0

66 43.6 19.8 59.8



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 8.883 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 70422

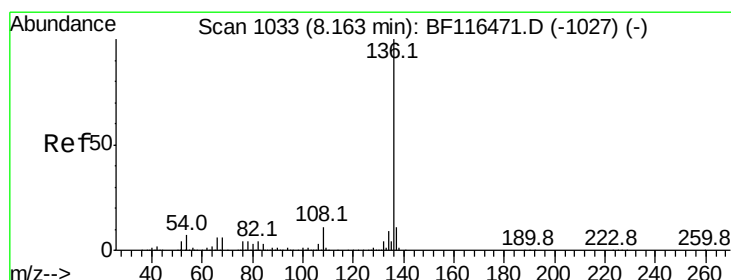
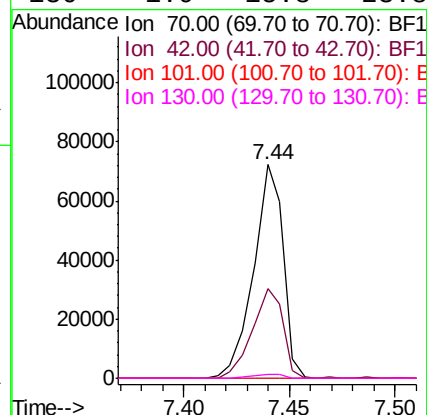
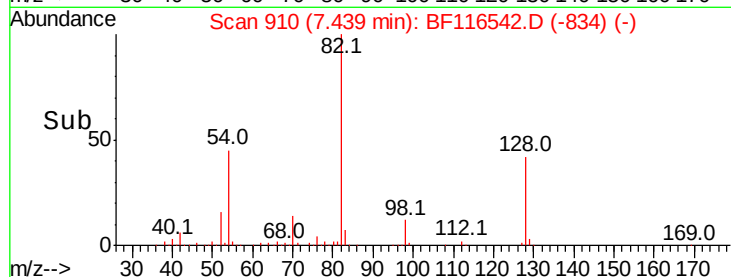
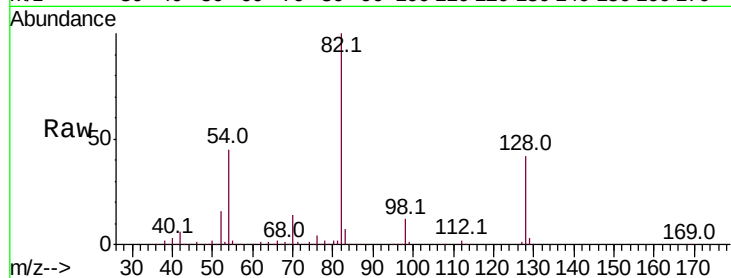
Ion Ratio Lower Upper

70 100

42 41.9 44.4 66.6#

101 0.0 7.1 10.7#

130 1.9 15.8 23.8#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Tgt Ion: 136 Resp: 532159

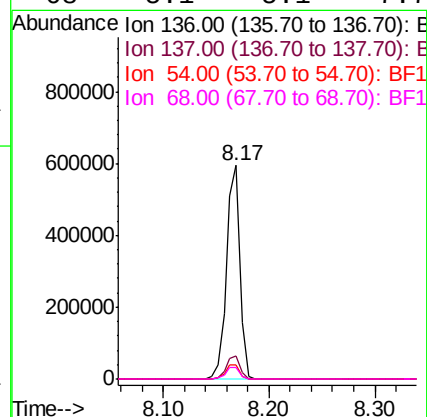
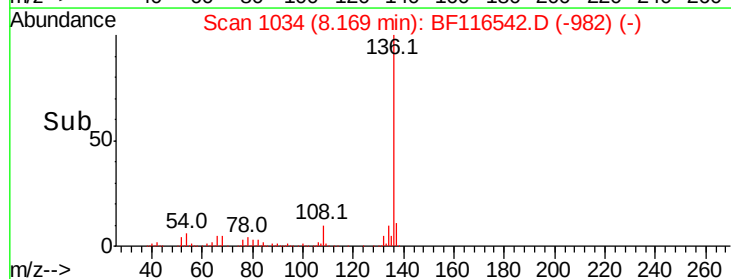
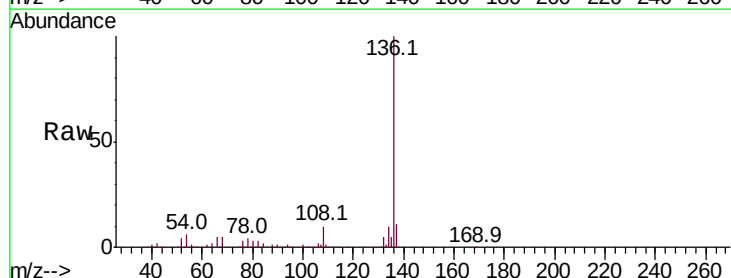
Ion Ratio Lower Upper

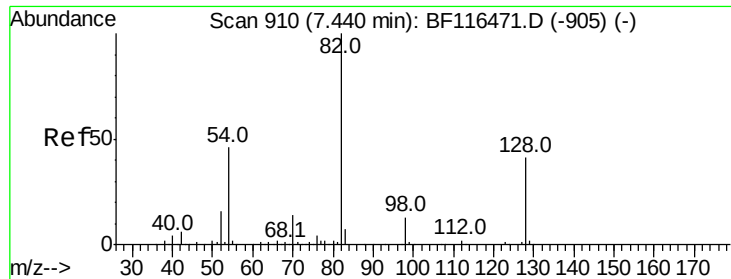
136 100

137 10.7 9.0 13.4

54 6.4 5.8 8.6

68 5.1 5.1 7.7

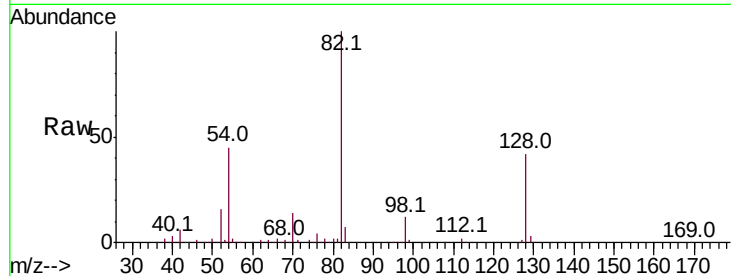




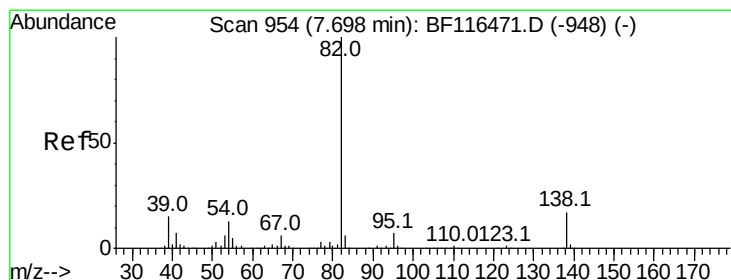
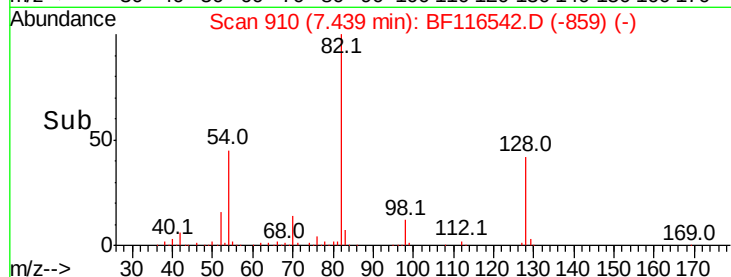
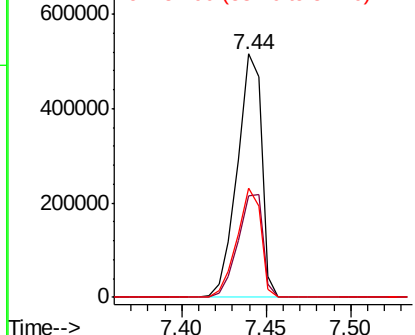
#23
Nitrobenzene-d5
Concen: 53.412 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.8	32.2	48.4
54	44.6	36.5	54.7

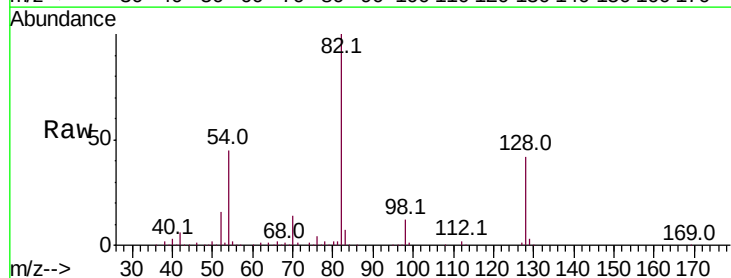


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

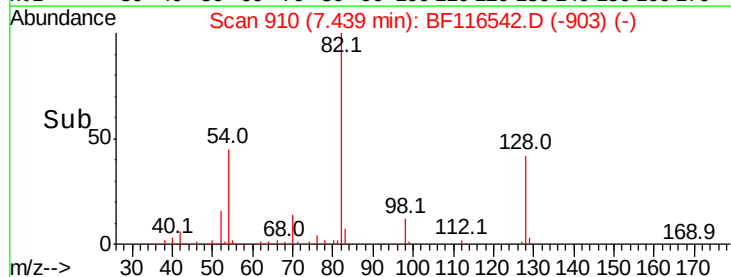
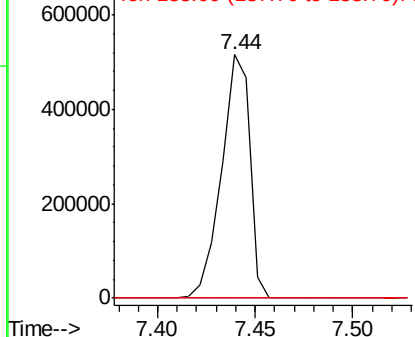


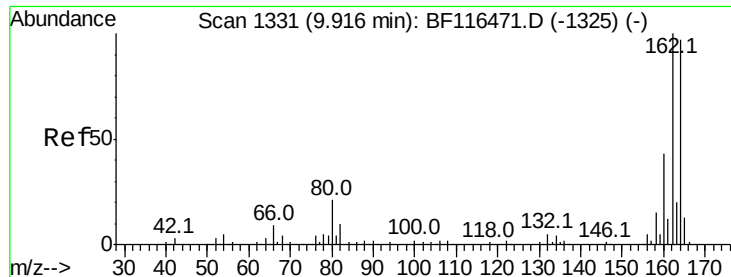
#25
Isophorone
Concen: 26.975 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.26 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.1	5.3	7.9#
138	0.0	13.3	19.9#



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

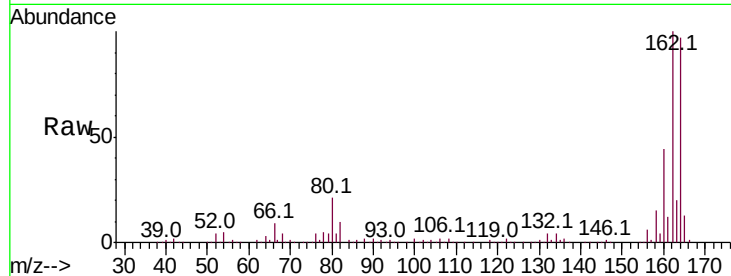




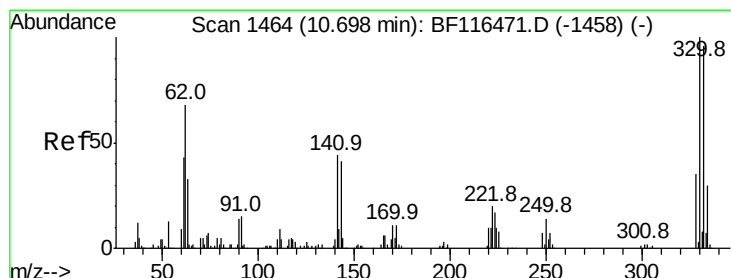
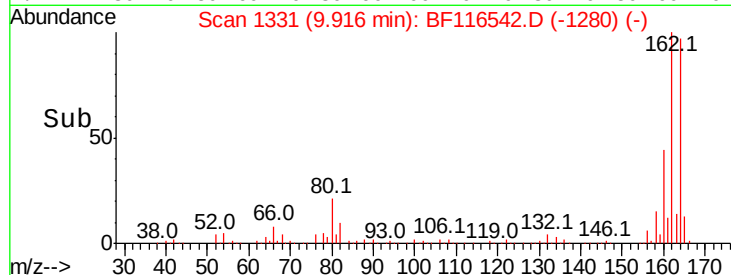
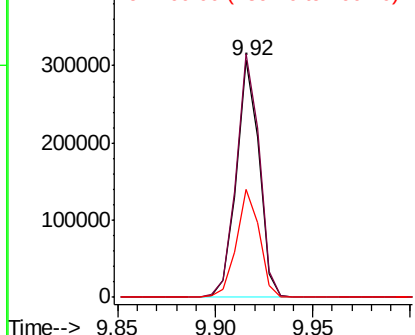
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.6	123.8
160	45.4	35.8	53.8

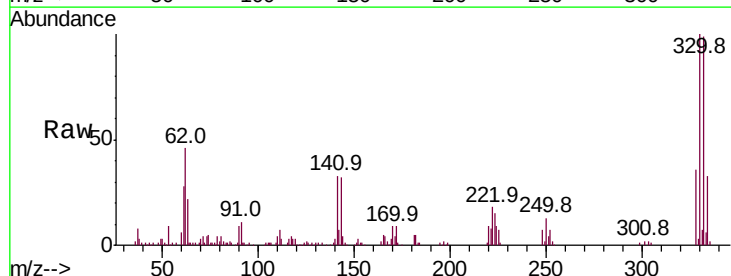


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

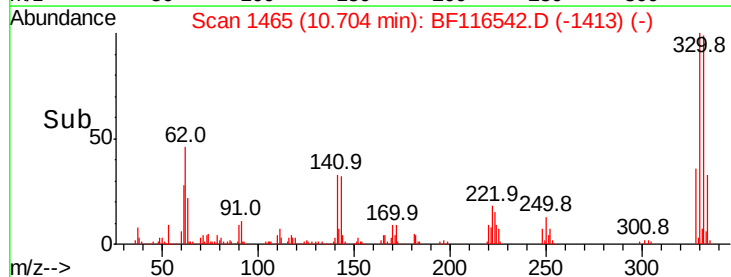
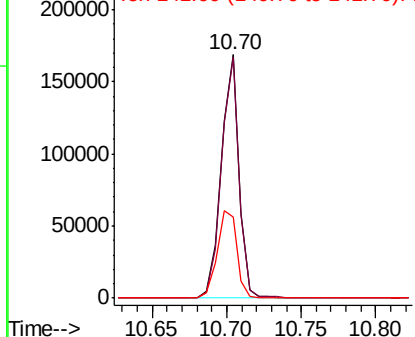


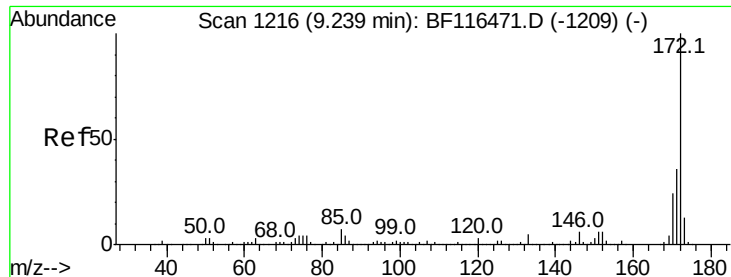
#42
2,4,6-Tribromophenol
Concen: 66.592 ng
RT: 10.70 min Scan# 1465
Delta R.T. 0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.4	77.2	115.8
141	40.4	33.3	49.9



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

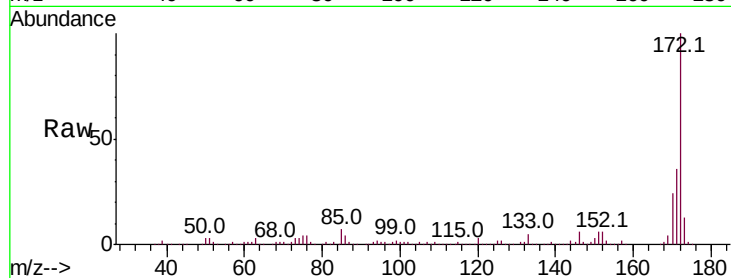




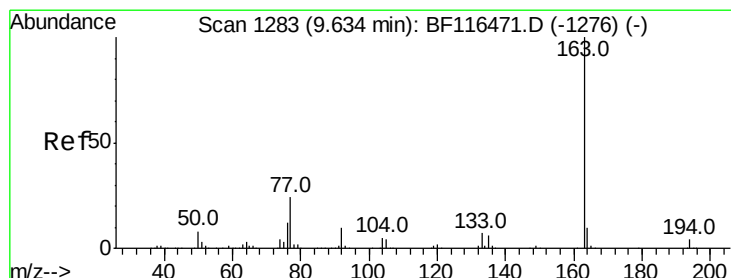
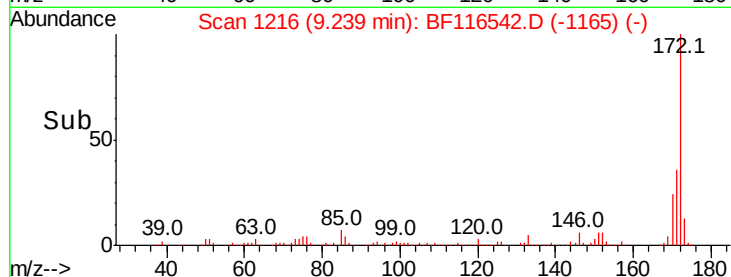
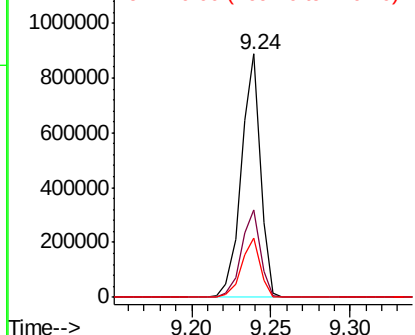
#45
2-Fluorobiphenyl
Concen: 47.876 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.9	43.3
170	24.3	19.4	29.0

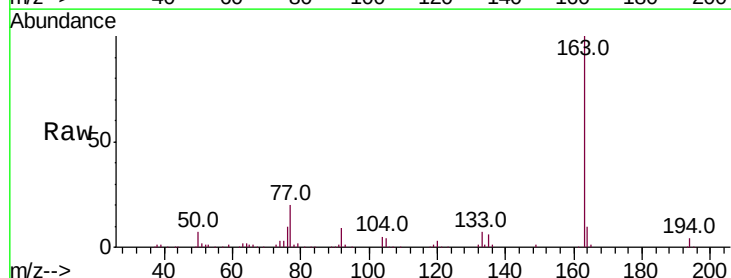


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

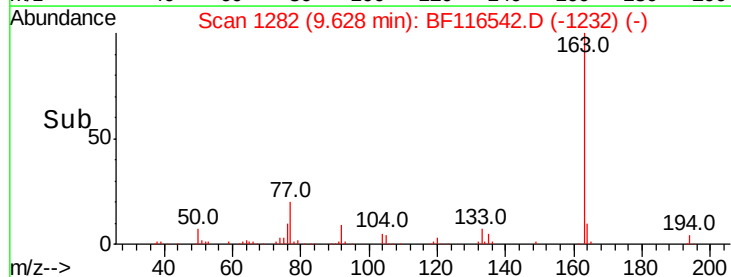
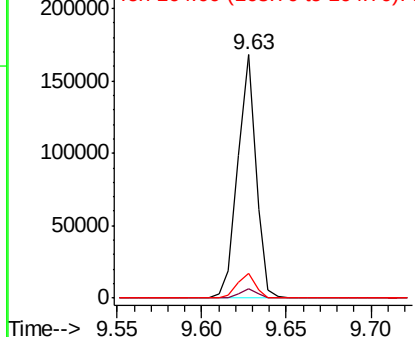


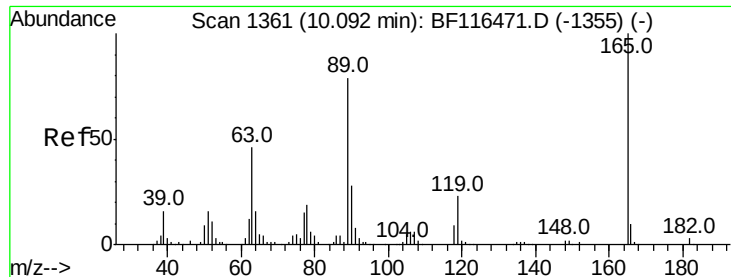
#50
Dimethylphthalate
Concen: 7.296 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.9	4.3
164	10.2	8.2	12.2



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

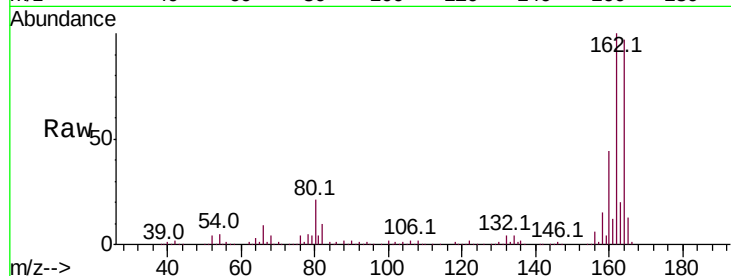




#57
2,4-Dinitrotoluene
Concen: 7.197 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.18 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	36.9	55.3#
89	1.5	63.4	95.0#
182	0.0	2.1	3.1#



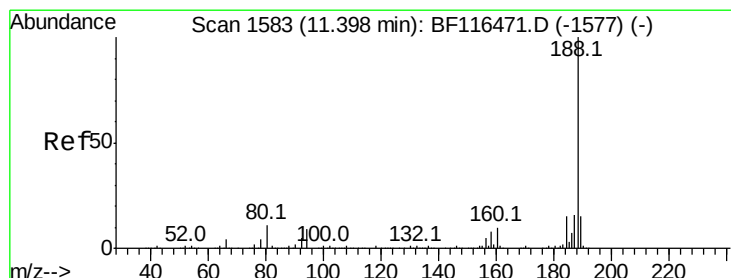
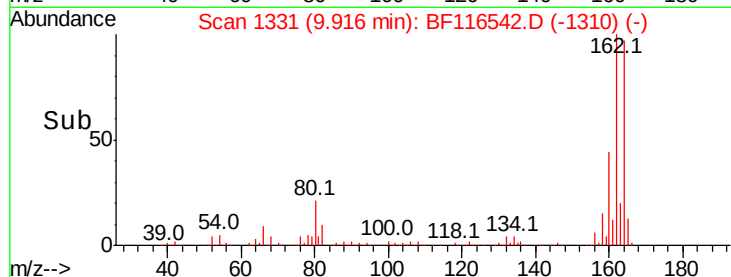
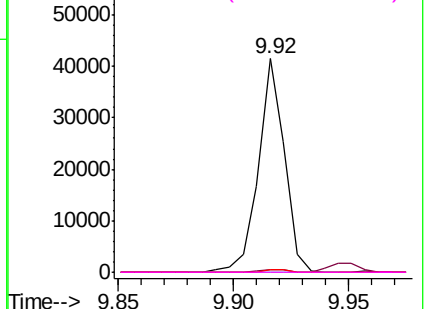
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

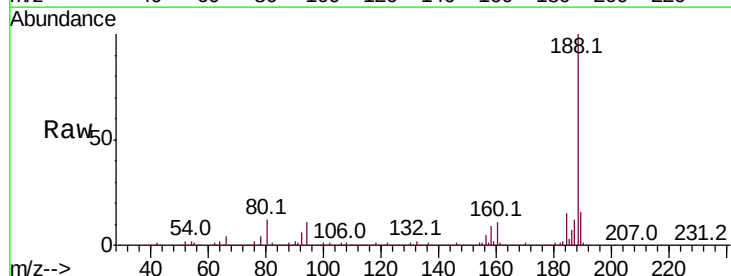
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.4	11.2
80	12.1	8.6	12.8

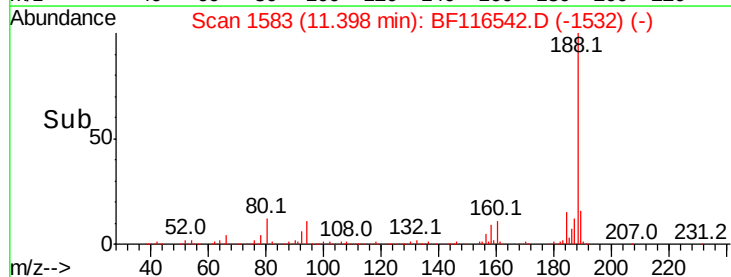
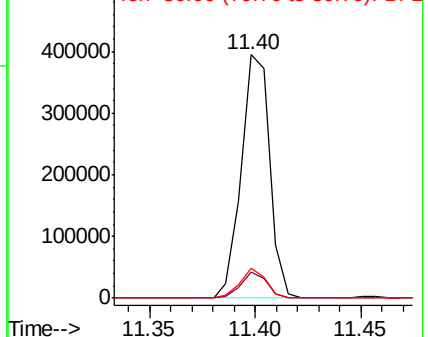


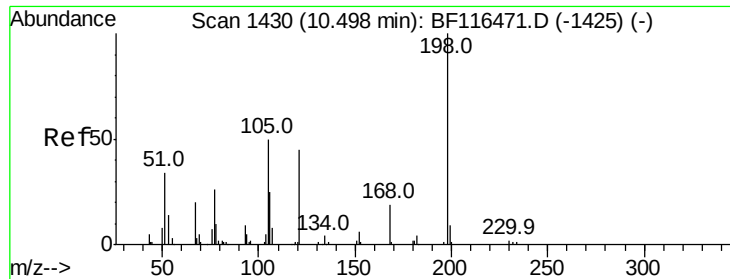
Abundance

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





#65

4,6-Dinitro-2-methylphenol

Concen: 7.171 ng

RT: 10.70 min Scan# 1464

Delta R.T. 0.20 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampleId :

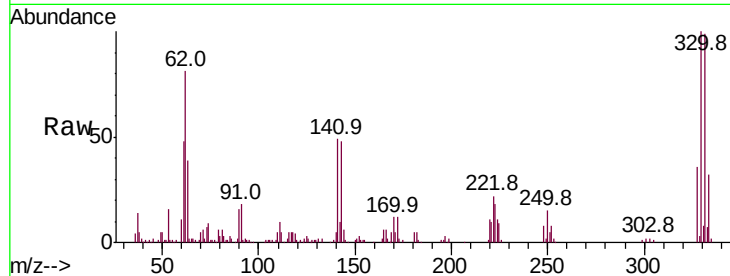
Tot Ion:198 Resp: 292

Ion Ratio Lower Upper

198 100

51 233.7 30.4 70.4#

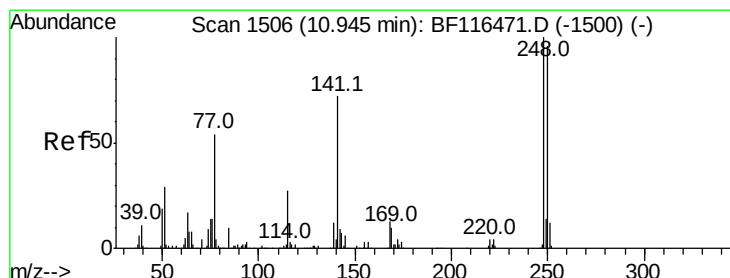
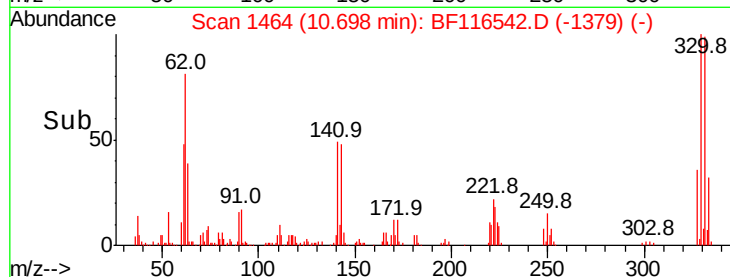
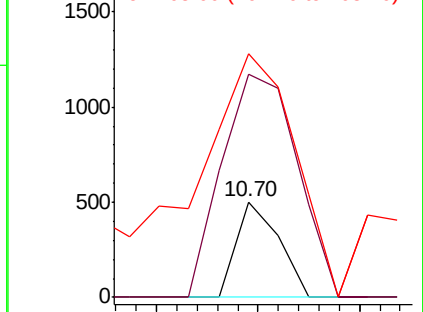
105 255.3 32.8 72.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 2.589 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.24 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

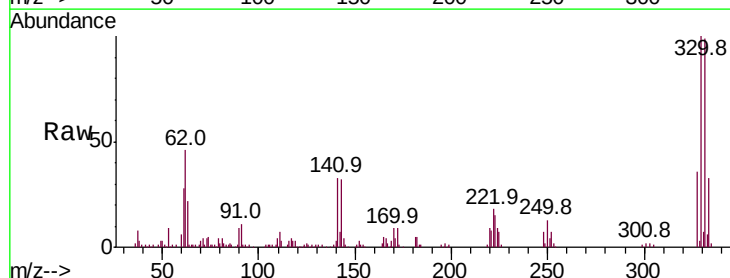
Tgt Ion:248 Resp: 9989

Ion Ratio Lower Upper

248 100

250 188.8 77.0 115.6#

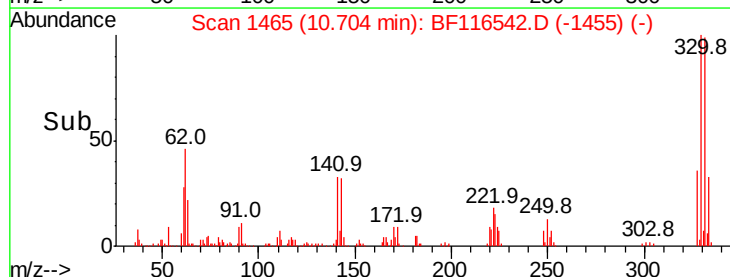
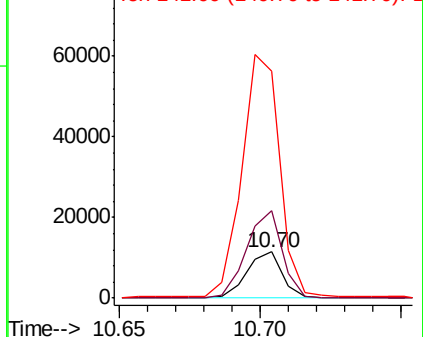
141 490.6 57.4 86.0#

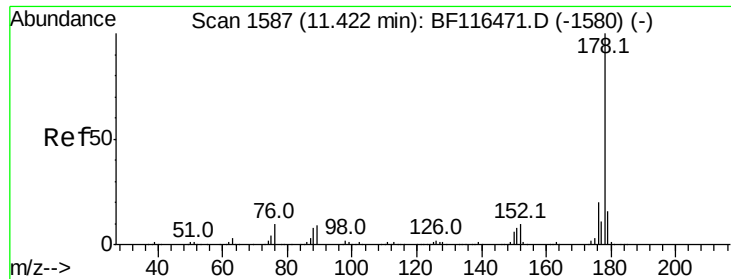


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

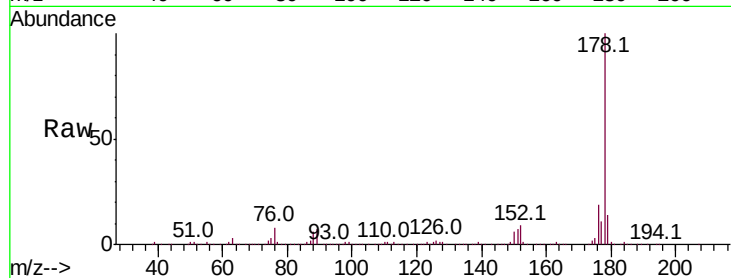




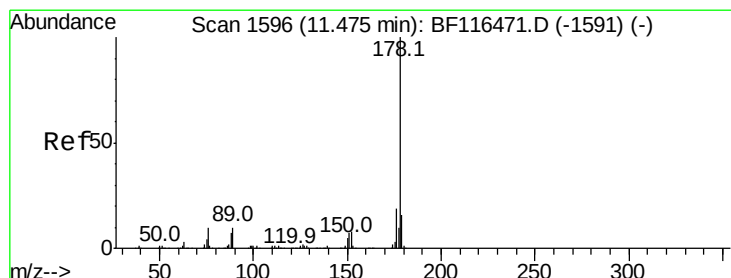
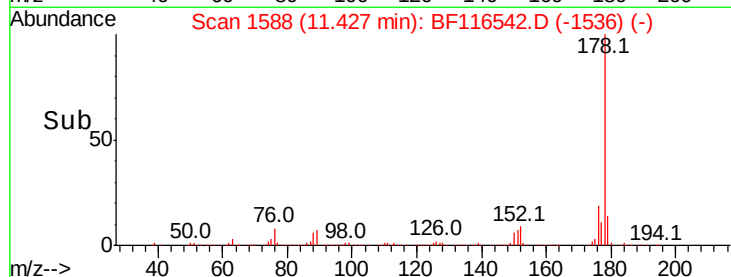
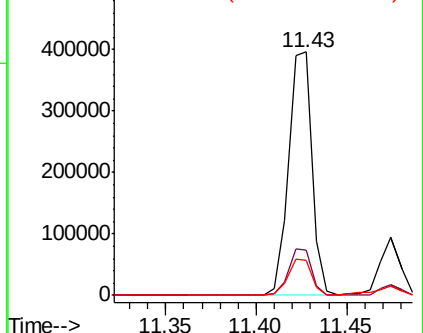
#71
Phenanthrene
Concen: 17.954 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 359967
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.6
179 14.5 12.8 19.2

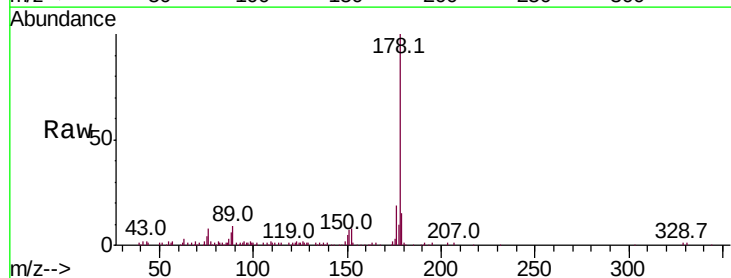


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

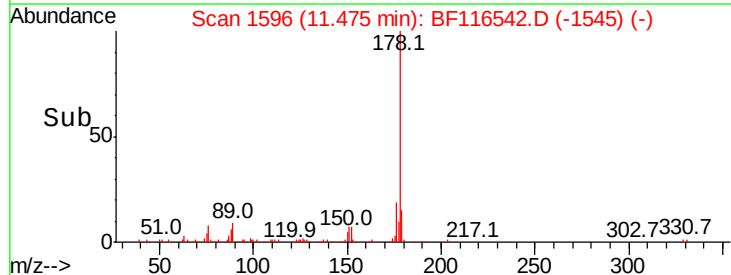
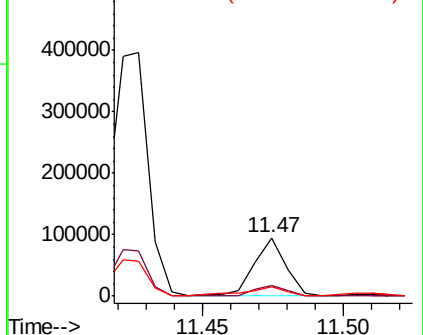


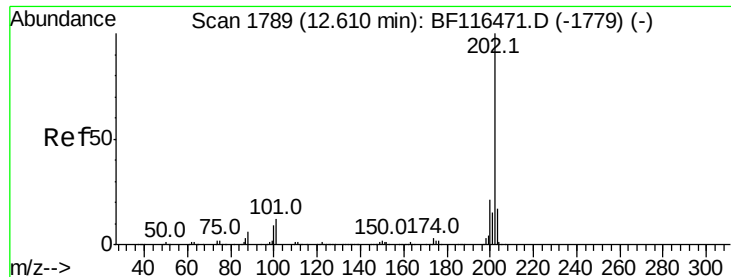
#72
Anthracene
Concen: 3.628 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion:178 Resp: 73094
Ion Ratio Lower Upper
178 100
176 18.7 15.2 22.8
179 15.1 12.5 18.7



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: 22.869 ng

RT: 12.62 min Scan# 1790

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampleId :

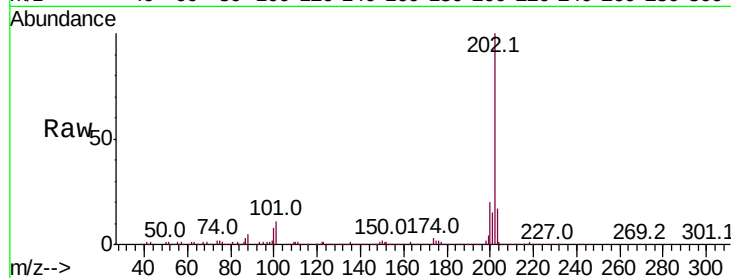
Tot Ion:202 Resp: 474035

Ion Ratio Lower Upper

202 100

101 10.5 0.0 31.5

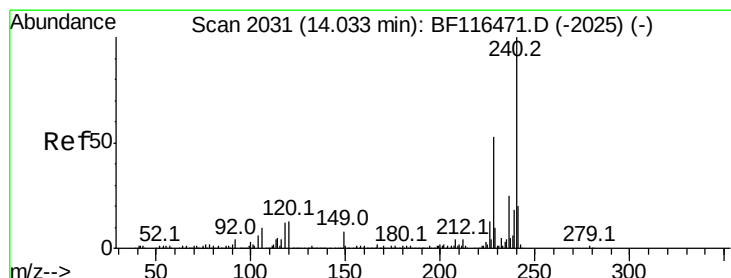
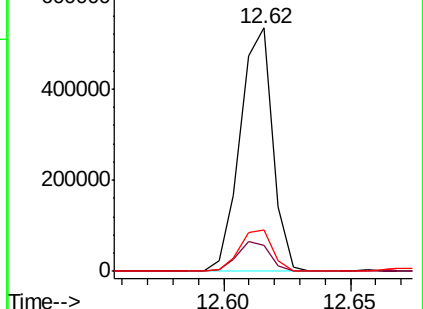
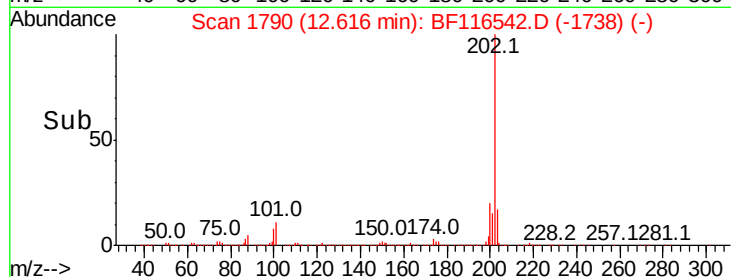
203 17.2 0.0 37.5



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: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

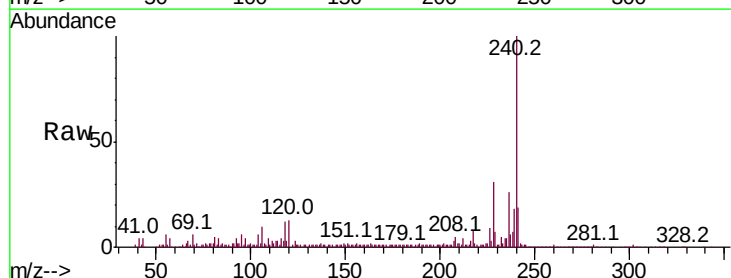
Tgt Ion:240 Resp: 202246

Ion Ratio Lower Upper

240 100

120 13.3 10.5 15.7

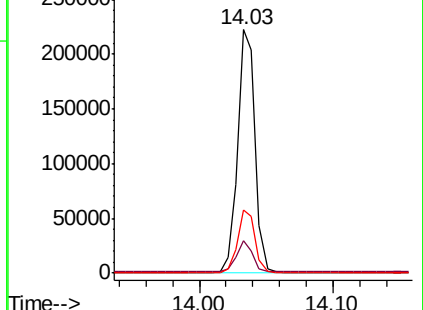
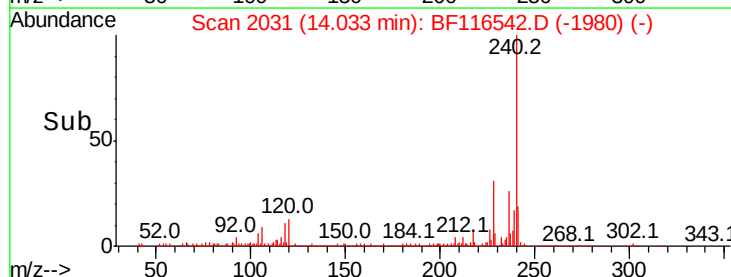
236 26.0 20.2 30.2

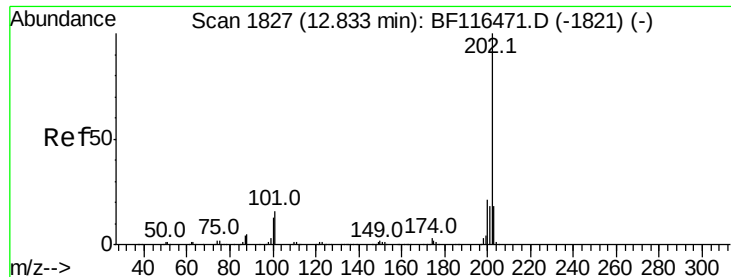


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 25.934 ng

RT: 12.84 min Scan# 1828

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampleId :

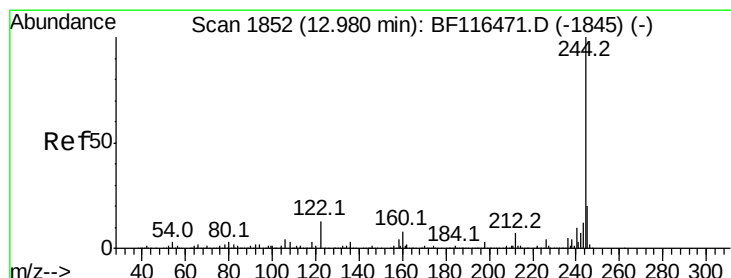
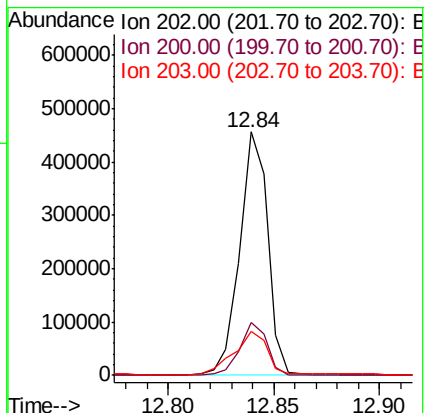
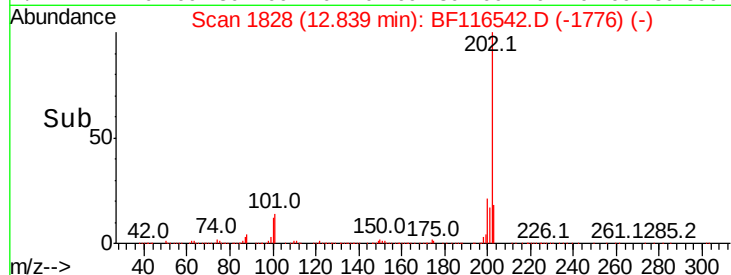
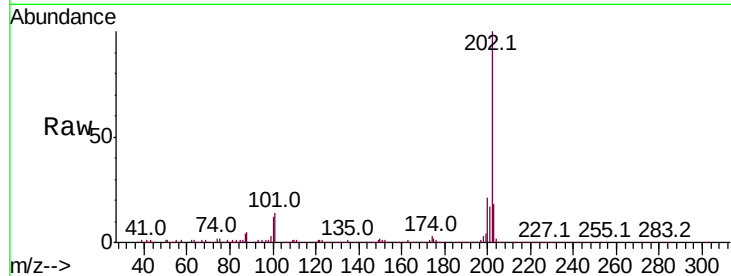
Tot Ion:202 Resp: 419456

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.4

203 18.3 14.2 21.4



#79

Terphenyl-d14

Concen: 52.064 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.00 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

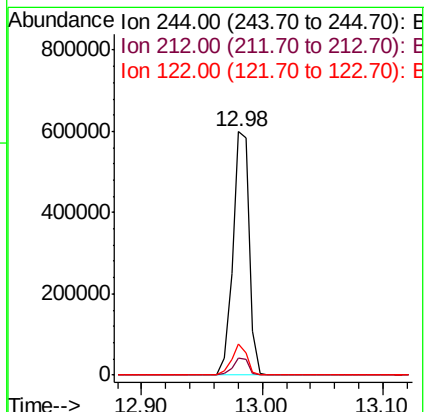
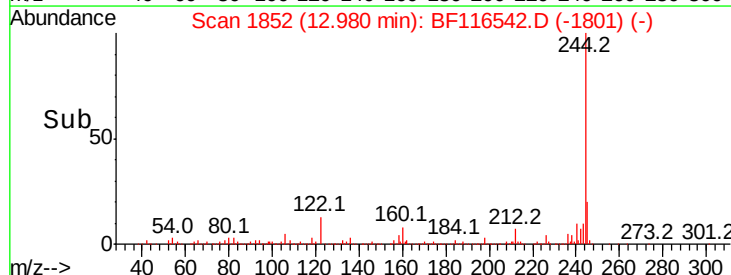
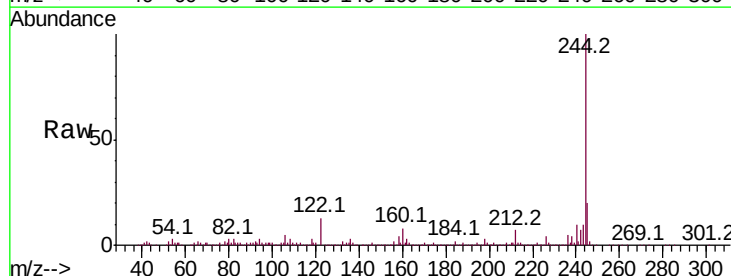
Tgt Ion:244 Resp: 563718

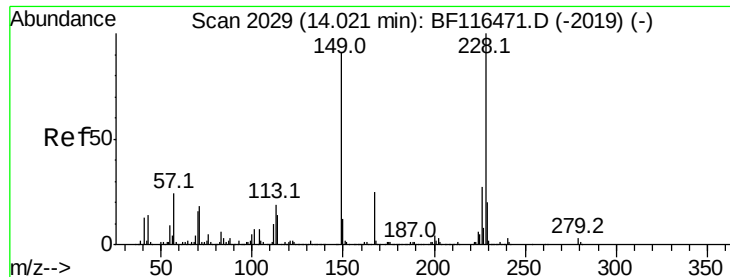
Ion Ratio Lower Upper

244 100

212 7.0 5.7 8.5

122 13.0 10.2 15.4





#81

Benzo(a)anthracene

Concen: 12.827 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.01 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

Instrument :

BNA_F

ClientSampleId :

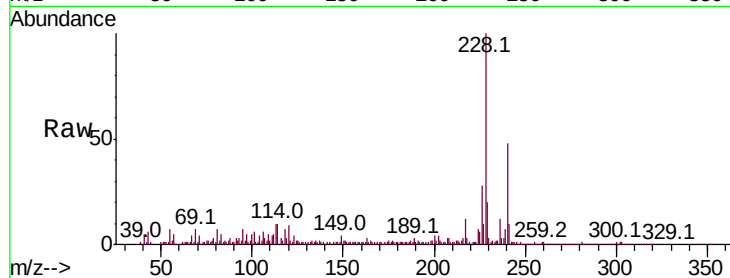
Tot Ion:228 Resp: 168013

Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.6

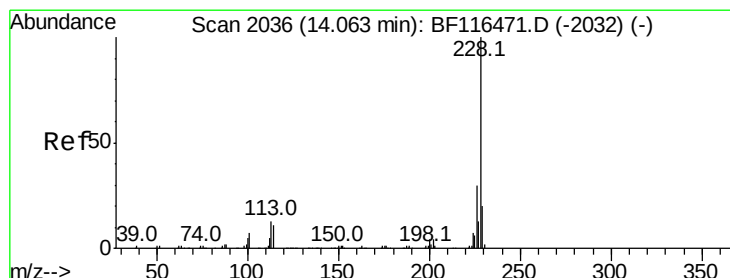
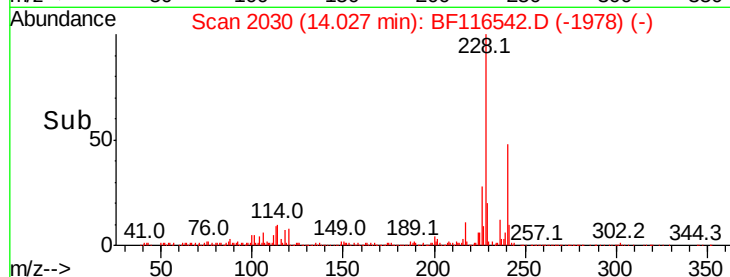
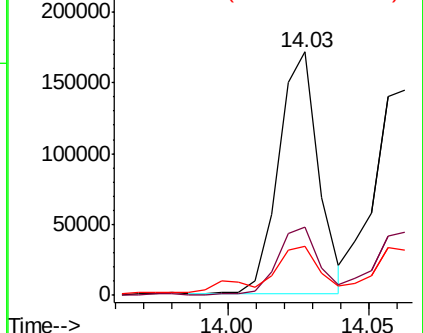
229 20.3 15.9 23.9



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: 11.479 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.00 min

Lab File: BF116542.D

Acq: 25 Aug 2019 19:51

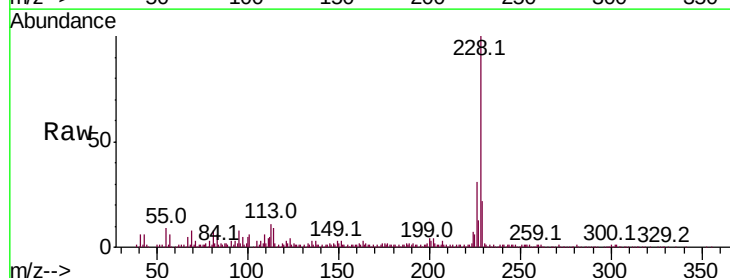
Tgt Ion:228 Resp: 152406

Ion Ratio Lower Upper

228 100

226 30.6 24.2 36.2

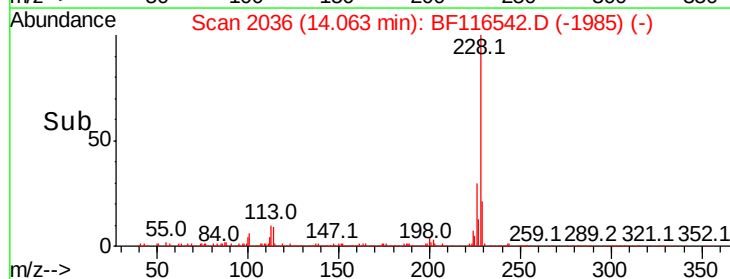
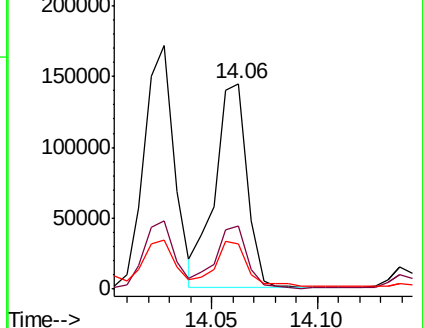
229 21.7 15.8 23.6

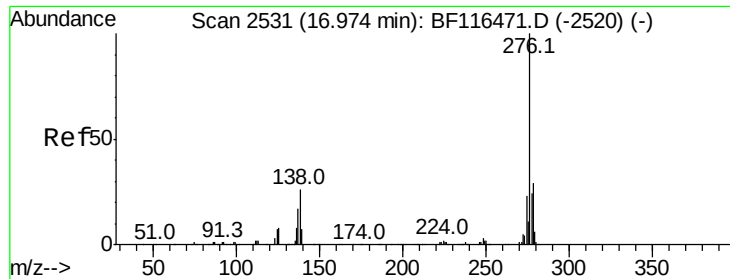


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

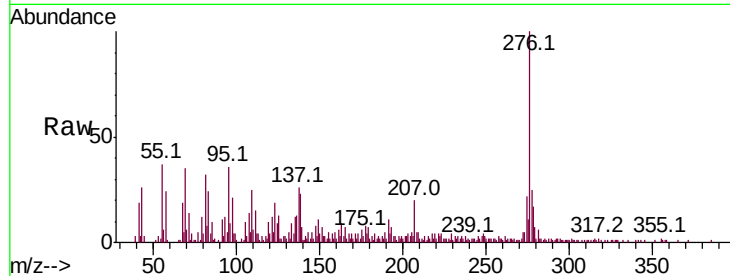




#86
Indeno(1,2,3-cd)pyrene
Concen: 6.205 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.8	22.9	34.3#
277	24.0	19.9	29.9

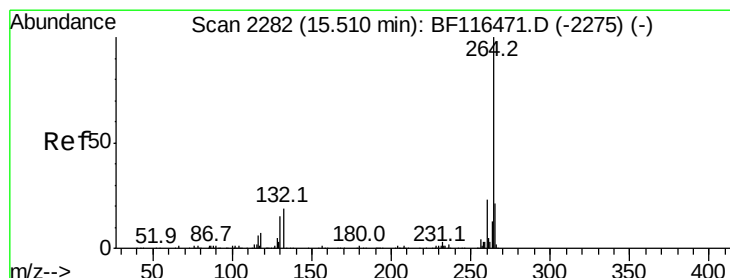
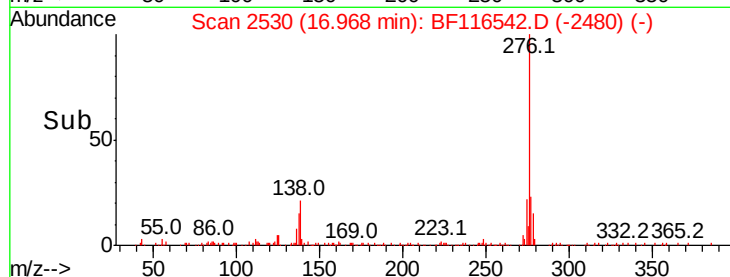
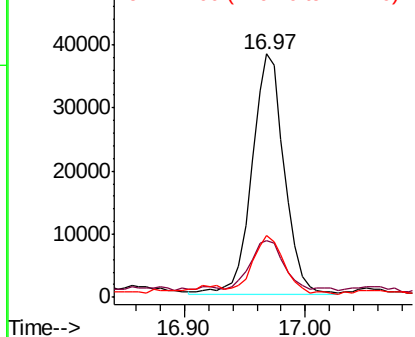


Abundance

Ion 276.00 (275.70 to 276.70): E

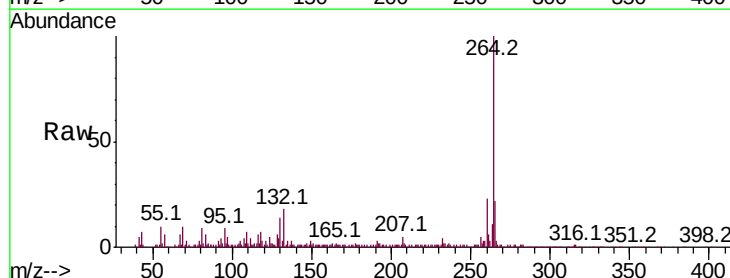
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.8	28.2
265	22.1	17.1	25.7

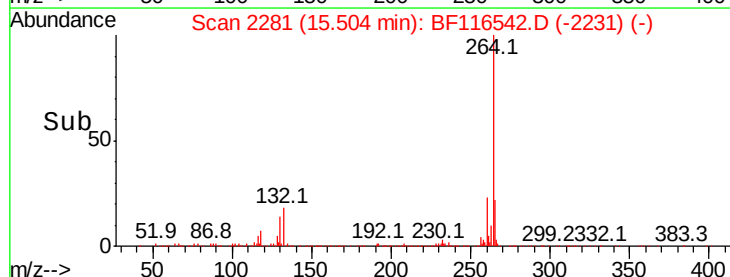
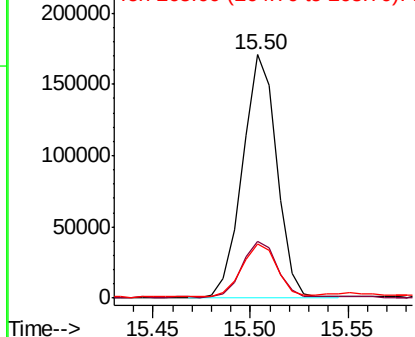


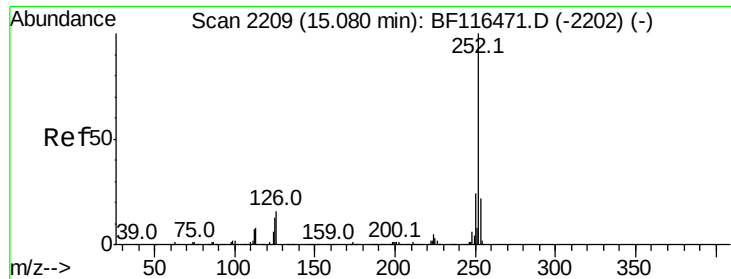
Abundance

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

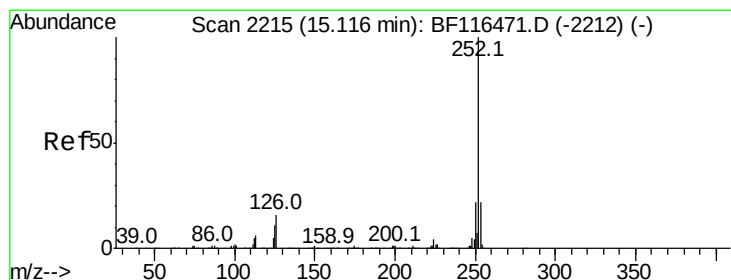
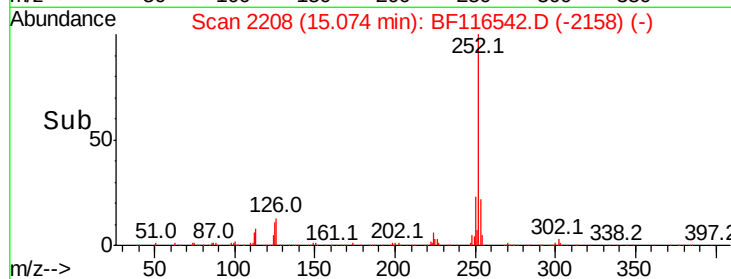
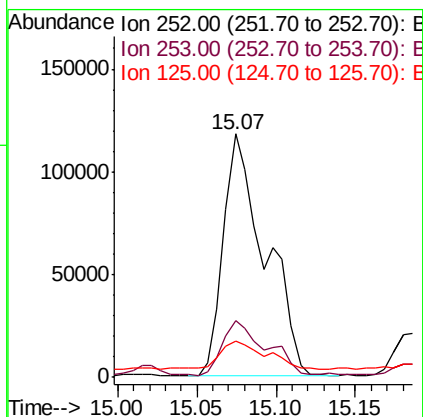
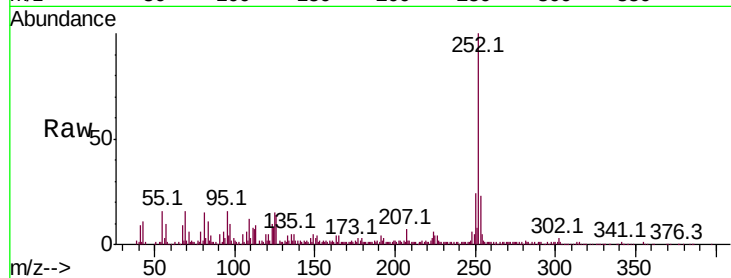




#88
Benzo(b)fluoranthene
Concen: 16.998 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

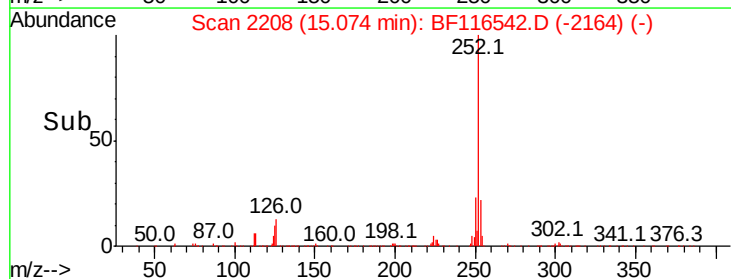
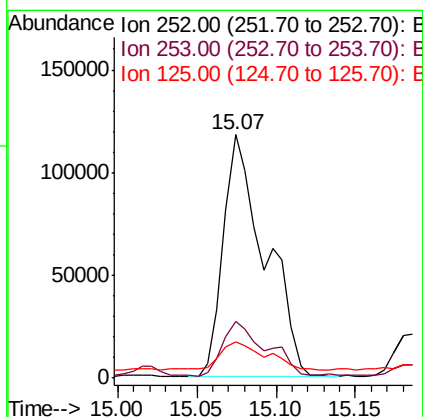
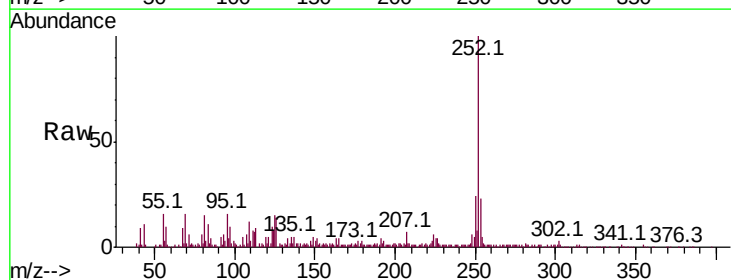
Instrument :
BNA_F
ClientSampleId :

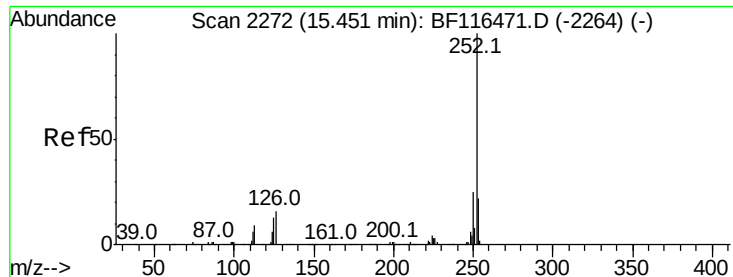
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	14.7	10.1	15.1



#89
Benzo(k)fluoranthene
Concen: 18.762 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.04 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	14.7	9.1	13.7#

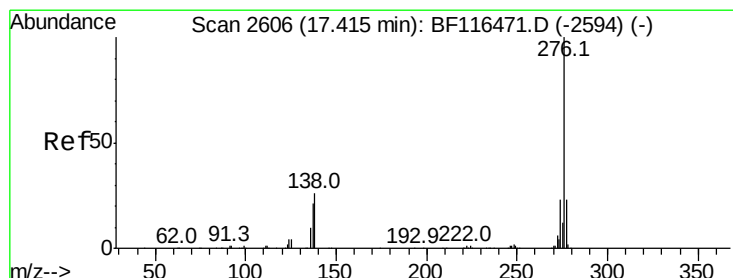
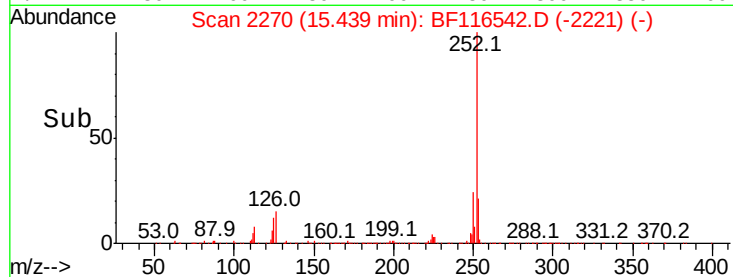
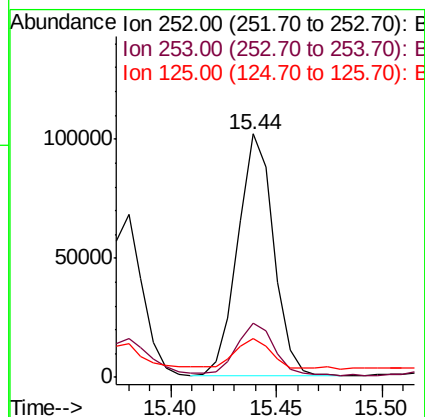
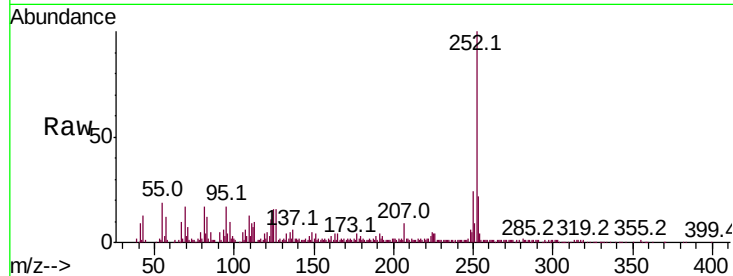




#90
Benzo(a)pyrene
Concen: 10.563 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	15.8	10.2	15.4



#92
Benzo(g,h,i)perylene
Concen: 7.480 ng
RT: 17.42 min Scan# 2606
Delta R.T. -0.00 min
Lab File: BF116542.D
Acq: 25 Aug 2019 19:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.7	28.1
138	21.7	20.8	31.2

