

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091417\
 Data File : BF098520.D
 Acq On : 14 Sep 2017 11:02
 Operator : SJ/JU
 Sample : I5208-04DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-BDL

Quant Time: Sep 14 15:40:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 14 15:40:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	151329	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	621527	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	278415	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	509624	20.00	ng	0.00
75) Chrysene-d12	13.79	240	304712	20.00	ng	-0.01
86) Perylene-d12	15.19	264	323681	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	119645	11.69	ng	0.00
7) Phenol-d6	6.30	99	148969	11.46	ng	0.00
23) Nitrobenzene-d5	7.21	82	85028	7.63	ng	-0.01
41) 2,4,6-Tribromophenol	10.47	330	26424	14.22	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	160900	9.80	ng	-0.01
78) Terphenyl-d14	12.74	244	125597	8.90	ng	-0.01

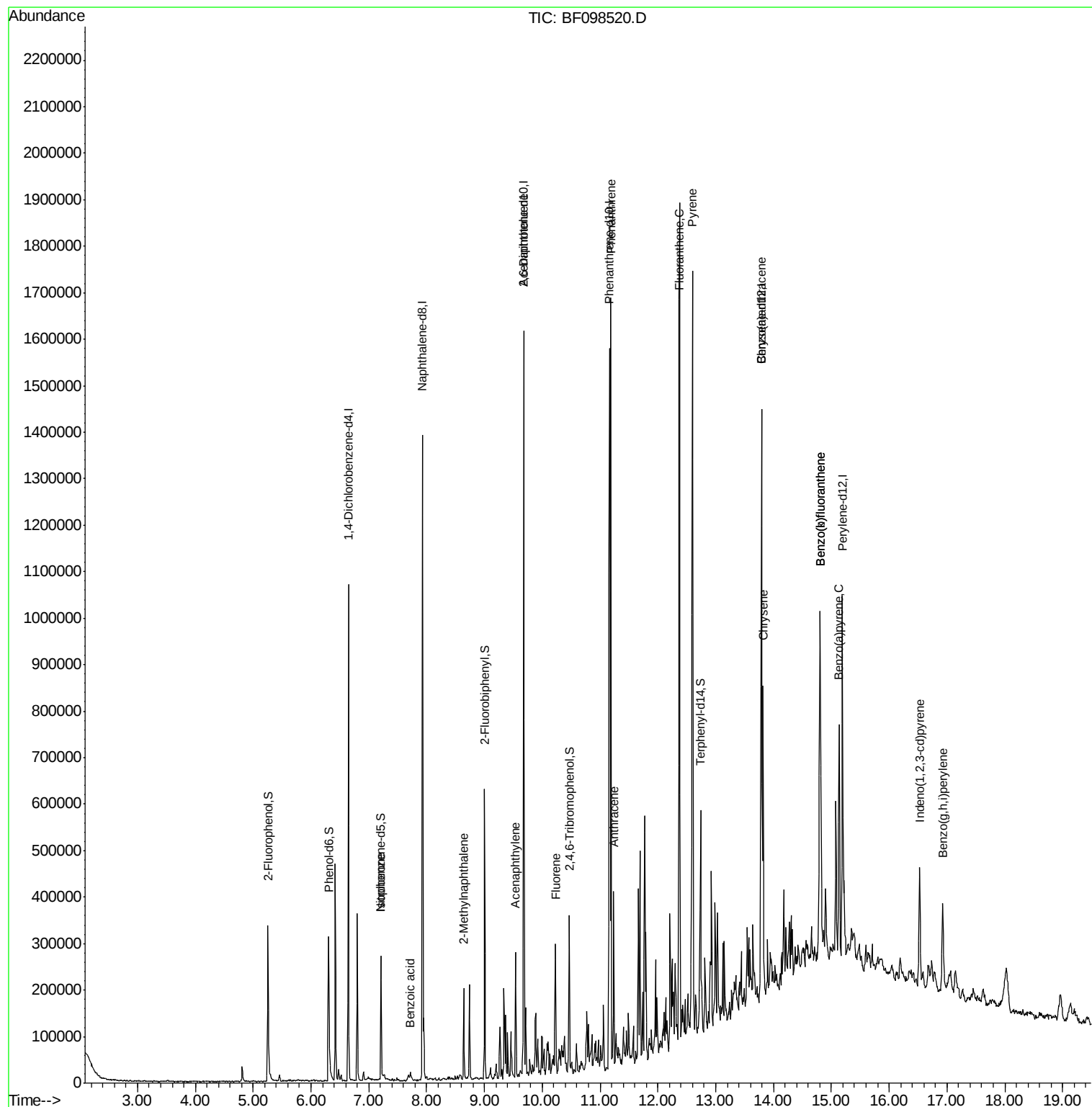
Target Compounds				Qvalue		
25) Isophorone	7.21	82	85026	3.769	ng	# 67
32) Benzoic acid	7.72	122	1496	8.160	ng	# 77
37) 2-Methylnaphthalene	8.65	142	55696	2.993	ng	98
48) Acenaphthylene	9.54	152	80154	3.029	ng	# 96
50) 2,6-Dinitrotoluene	9.68	165	37236	8.411	ng	# 34
57) Fluorene	10.23	166	71245	3.884	ng	98
70) Phenanthrene	11.19	178	558316	20.666	ng	98
71) Anthracene	11.24	178	145245	5.236	ng	97
74) Fluoranthene	12.37	202	686002	25.365	ng	98
77) Pyrene	12.60	202	662333	27.554	ng	99
80) Benzo(a)anthracene	13.79	228	267484	14.973	ng	96
82) Chrysene	13.82	228	256342	14.195	ng	98
85) Indeno(1,2,3-cd)pyrene	16.53	276	138548	10.936	ng	93
87) Benzo(b)fluoranthene	14.80	252	389446	19.135	ng	97
88) Benzo(k)fluoranthene	14.80	252	389446	20.497	ng	96
89) Benzo(a)pyrene	15.13	252	227158	12.528	ng	99
91) Benzo(a,h,i)perylene	16.93	276	139424	10.510	ng	96

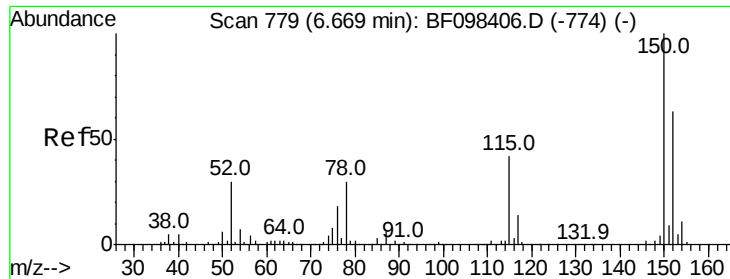
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.65 min Scan# 775

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

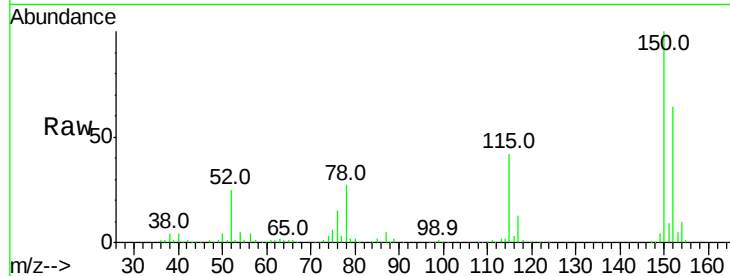
Tot Ion:152 Resp: 151329

Ion Ratio Lower Upper

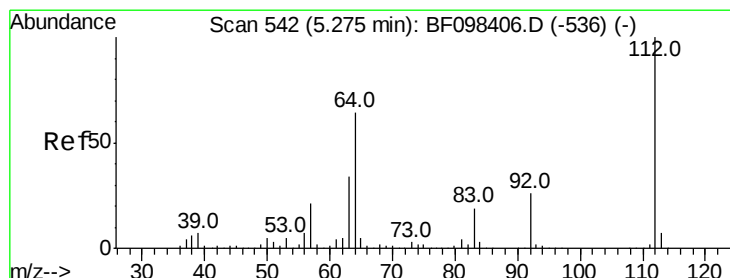
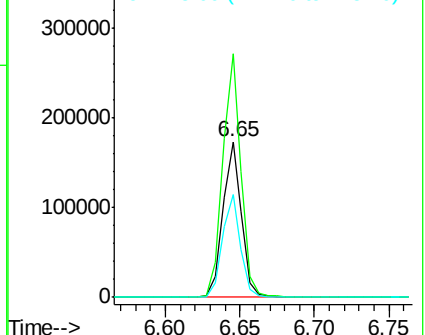
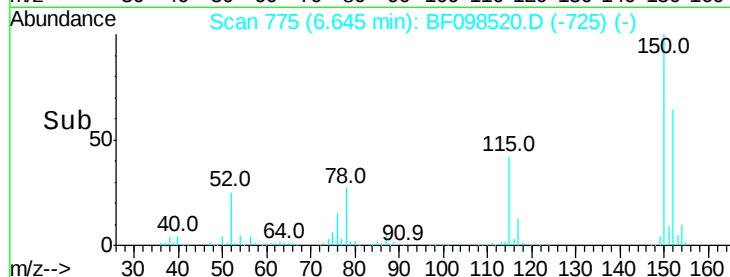
152 100

150 156.6 126.2 189.2

115 65.9 52.2 78.2



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: 11.690 ng

RT: 5.25 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

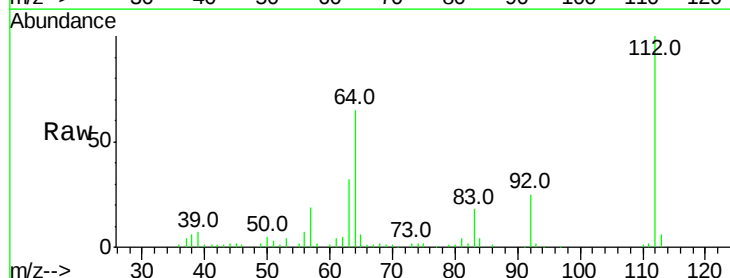
Tgt Ion:112 Resp: 119645

Ion Ratio Lower Upper

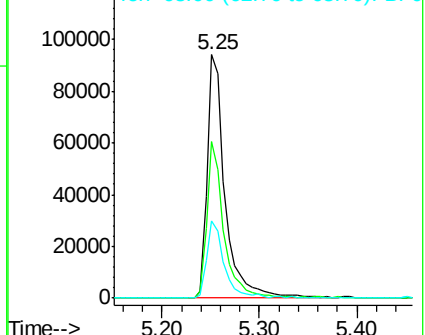
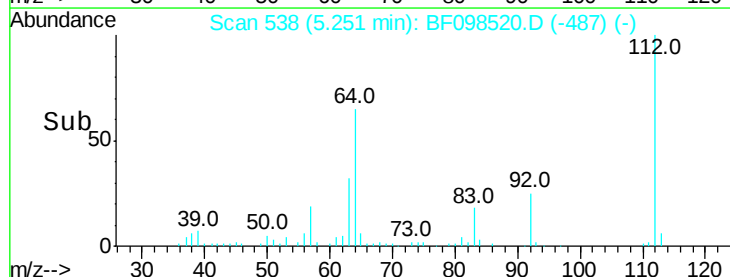
112 100

64 64.6 46.0 69.0

63 31.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.463 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.00 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

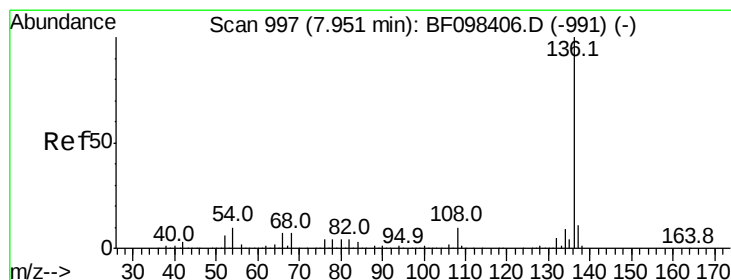
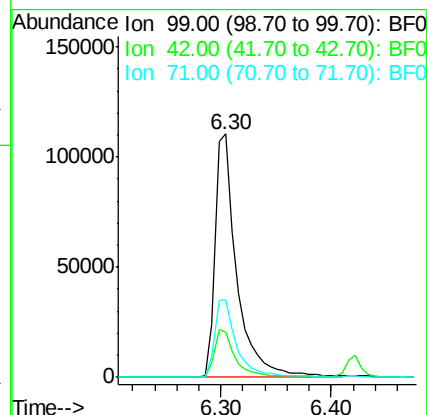
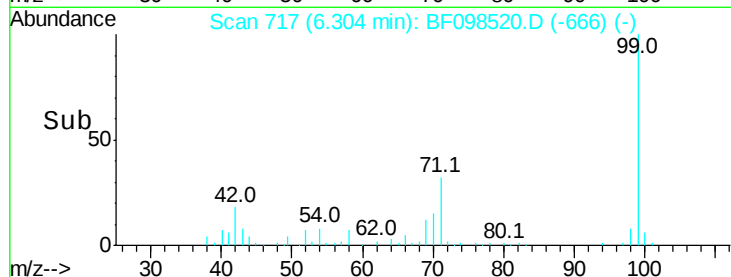
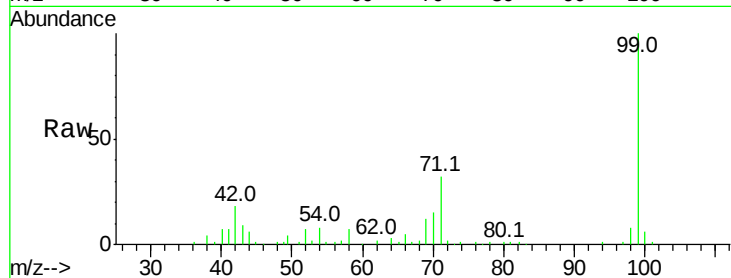
Tot Ion: 99 Resp: 148969

Ion Ratio Lower Upper

99 100

42 18.4 13.5 20.3

71 31.8 24.5 36.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Tgt Ion: 136 Resp: 621527

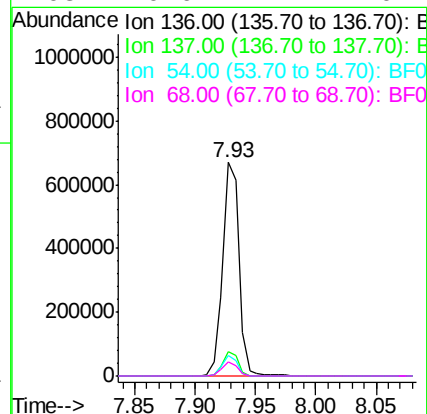
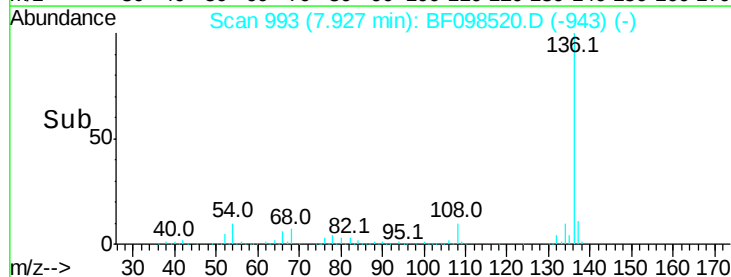
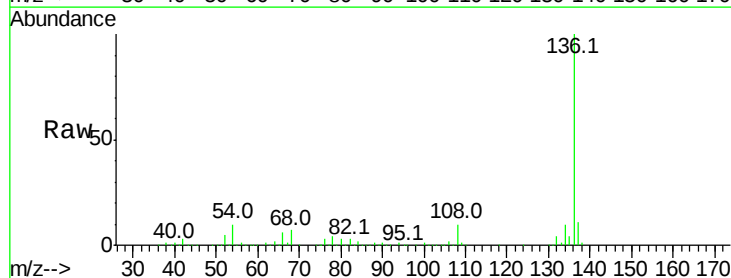
Ion Ratio Lower Upper

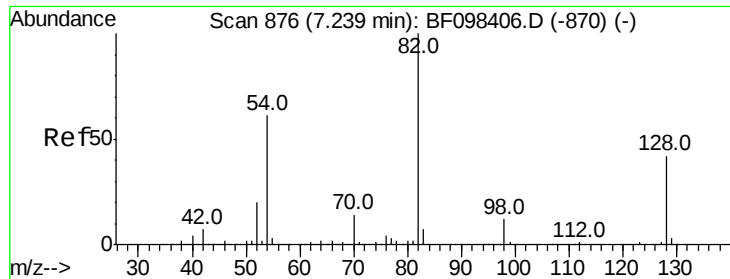
136 100

137 11.4 8.5 12.7

54 9.8 4.9 7.3#

68 6.6 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 7.627 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

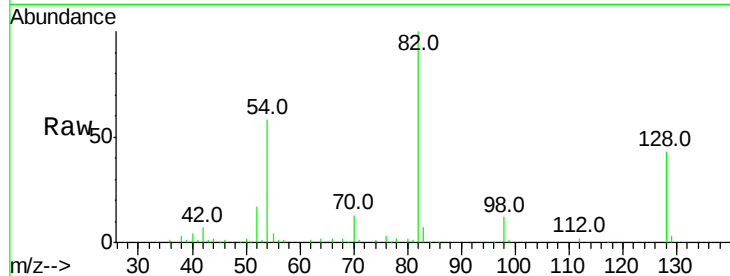
Tot Ion: 82 Resp: 85028

Ion Ratio Lower Upper

82 100

128 42.5 34.0 51.0

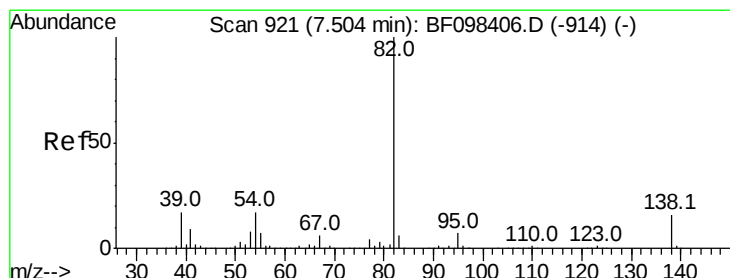
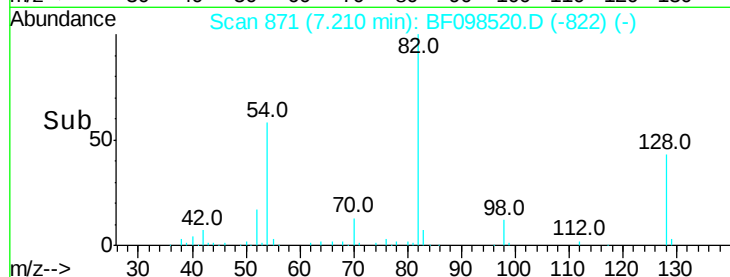
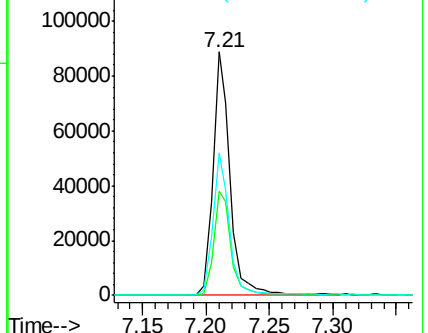
54 58.4 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 3.769 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.28 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

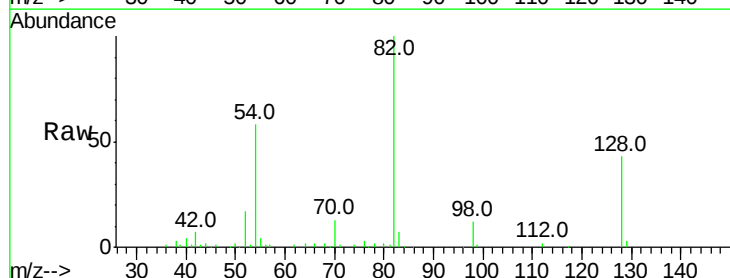
Tgt Ion: 82 Resp: 85026

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

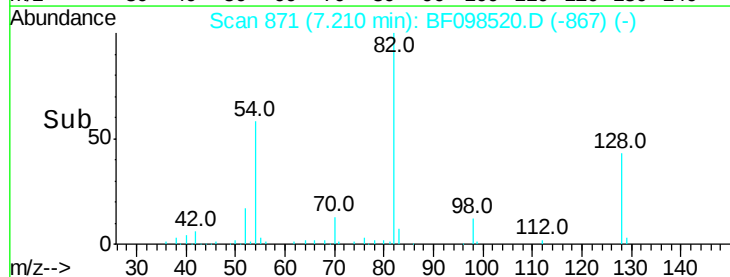
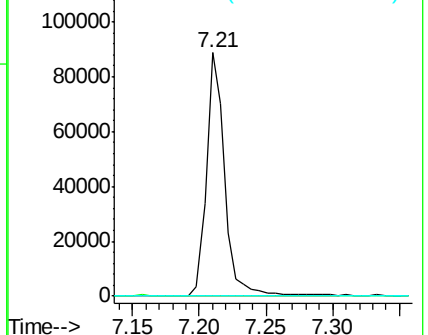
138 0.0 13.1 19.7#

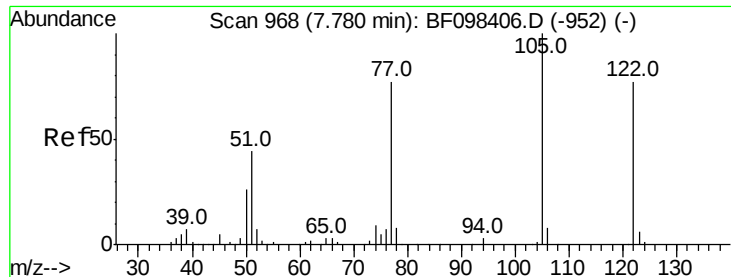


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

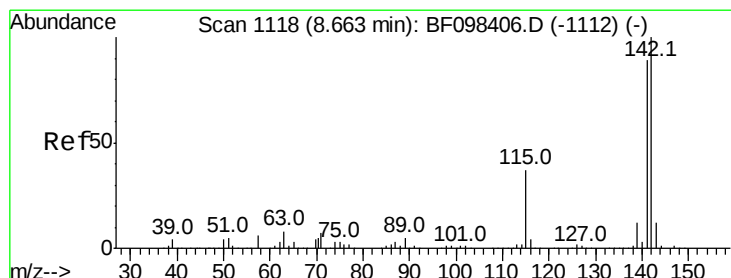
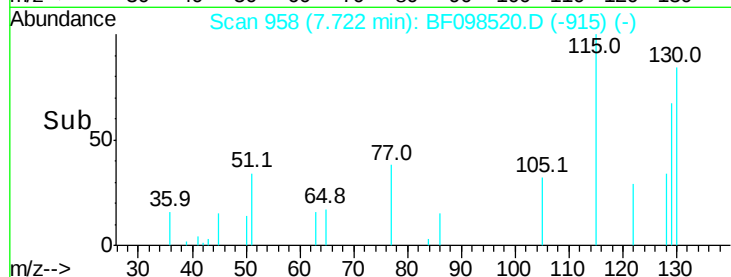
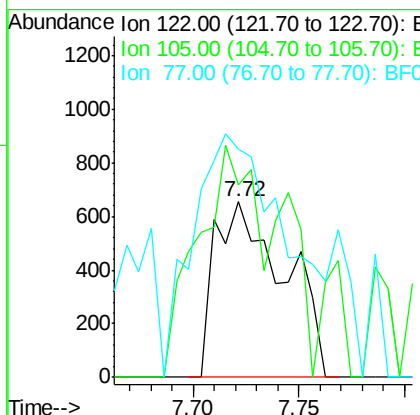
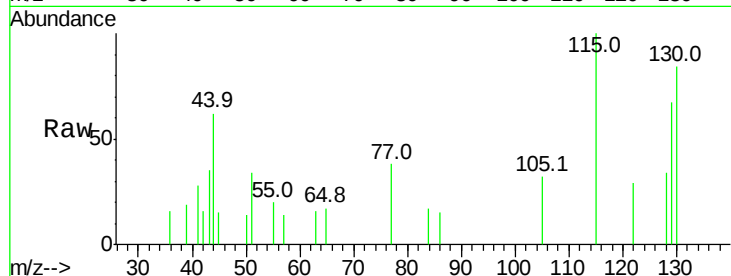




#32
Benzoic acid
Concen: 8.160 ng
RT: 7.72 min Scan# 958
Delta R.T. -0.05 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

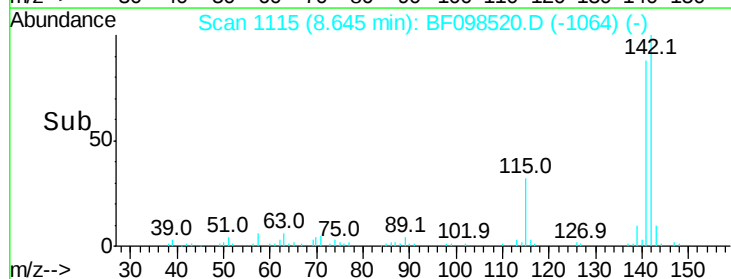
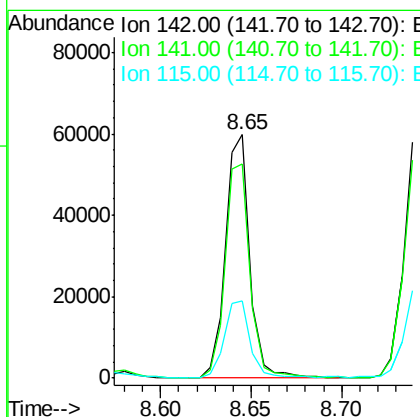
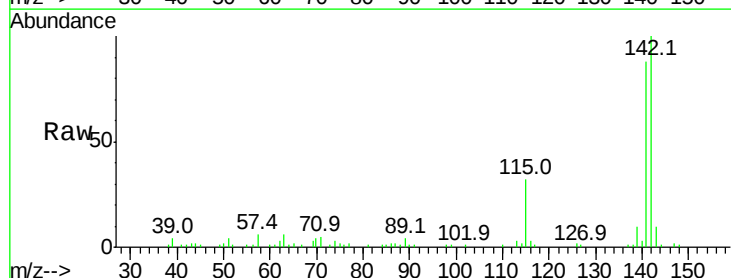
Instrument :
BNA_F
ClientSampleId :
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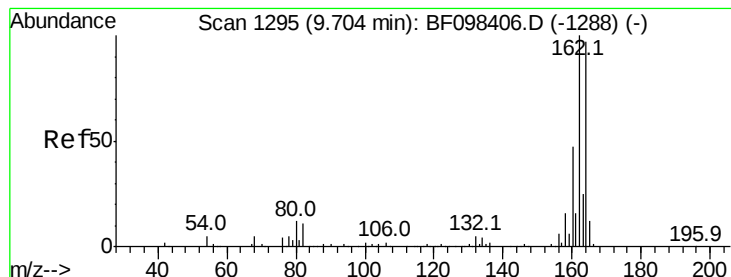
Tot Ion:122 Resp: 1496
Ion Ratio Lower Upper
122 100
105 109.8 103.3 143.3
77 130.3 73.7 113.7#



#37
2-Methylnaphthalene
Concen: 2.993 ng
RT: 8.65 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

Tgt Ion:142 Resp: 55696
Ion Ratio Lower Upper
142 100
141 87.9 71.3 106.9
115 31.8 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

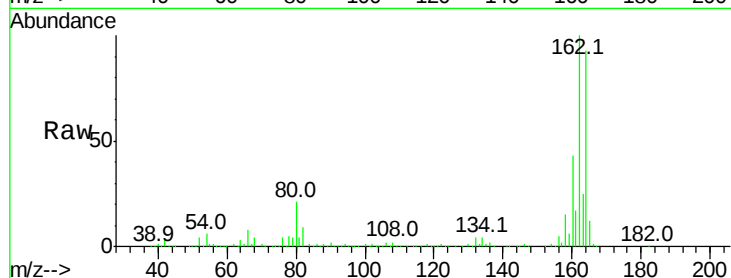
Tot Ion:164 Resp: 278415

Ion Ratio Lower Upper

164 100

162 107.3 82.6 123.8

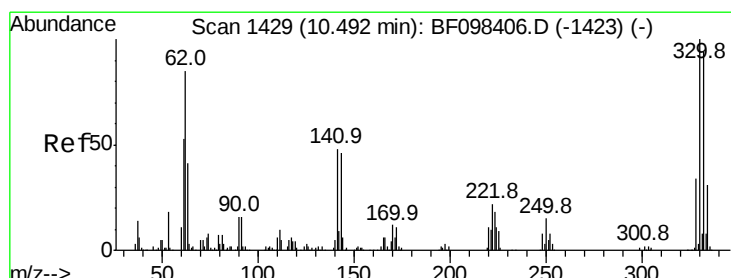
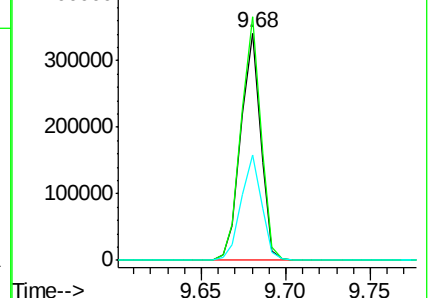
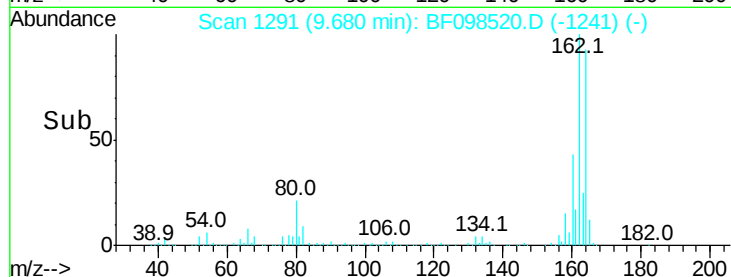
160 46.2 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 14.220 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

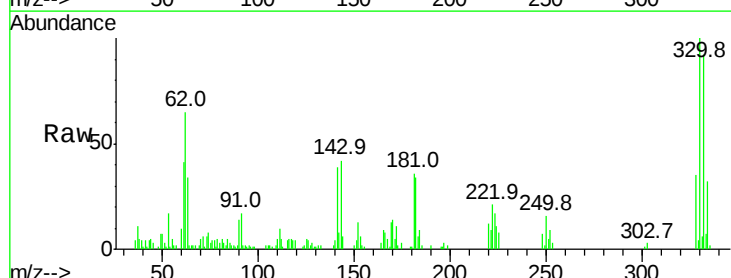
Tgt Ion:330 Resp: 26424

Ion Ratio Lower Upper

330 100

332 95.9 76.6 115.0

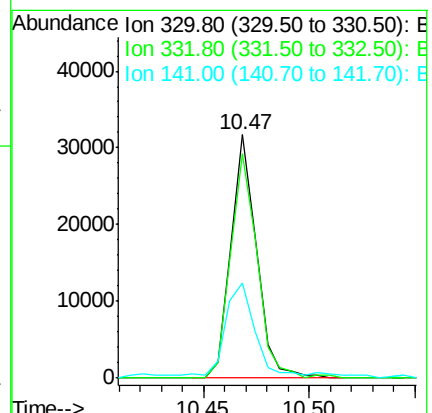
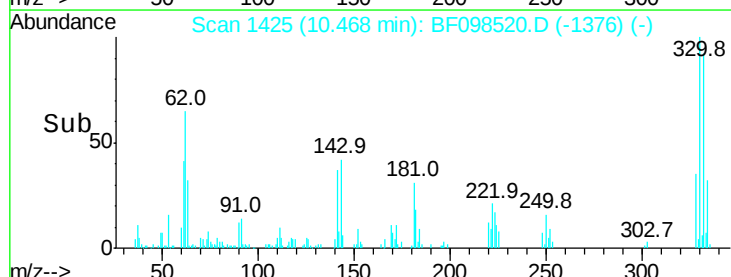
141 49.6 31.4 47.2#

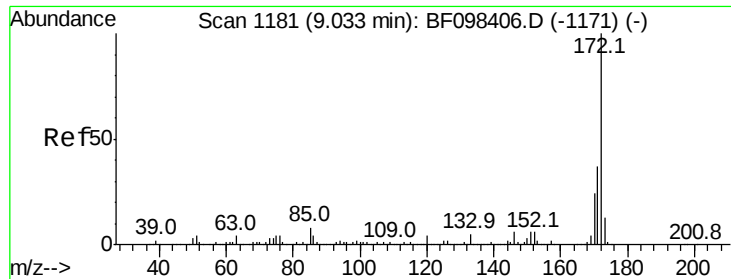


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

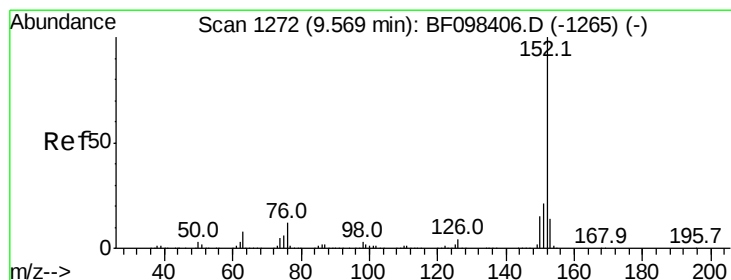
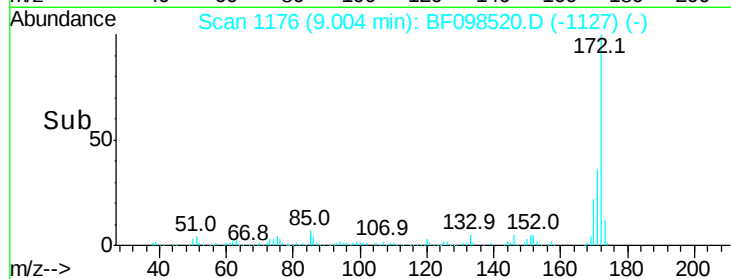
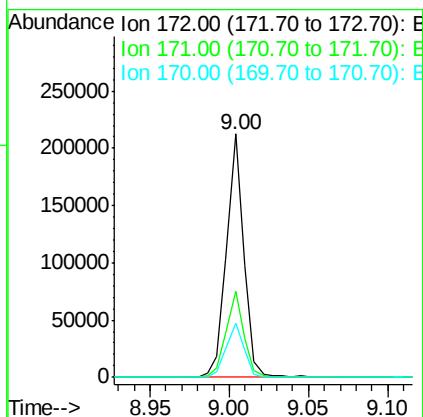
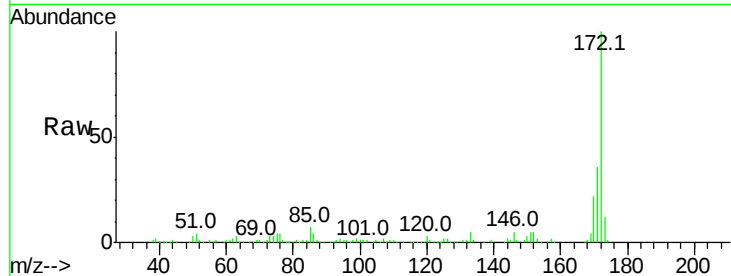




#44
 2-Fluorobiphenyl
 Concen: 9.795 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF098520.D
 Acq: 14 Sep 2017 11:02

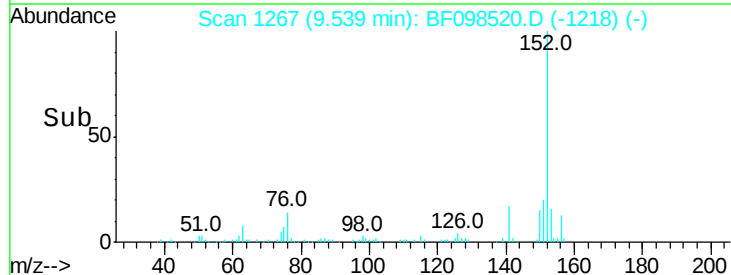
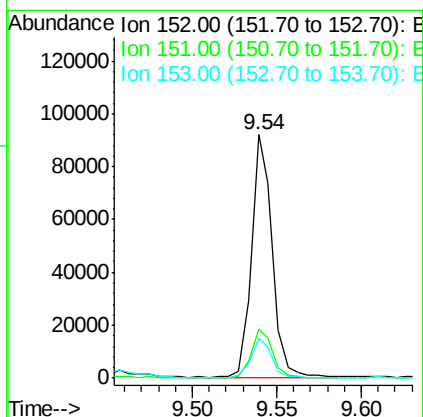
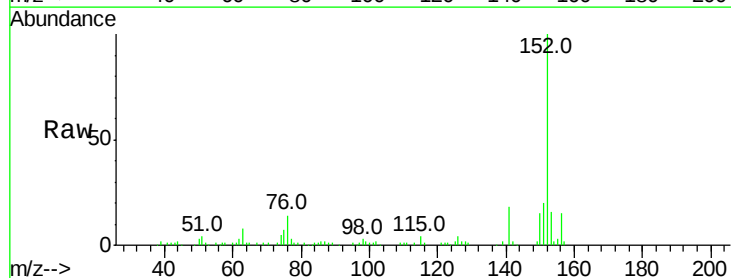
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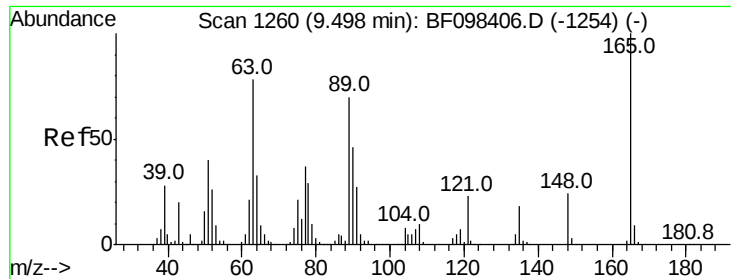
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	22.2	19.8	29.8



#48
 Acenaphthylene
 Concen: 3.029 ng
 RT: 9.54 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF098520.D
 Acq: 14 Sep 2017 11:02

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.8	25.2
153	16.3	10.8	16.2#

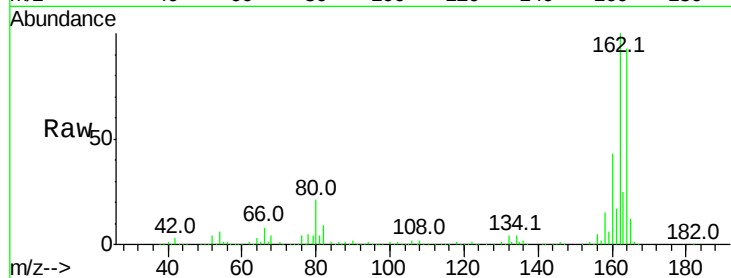




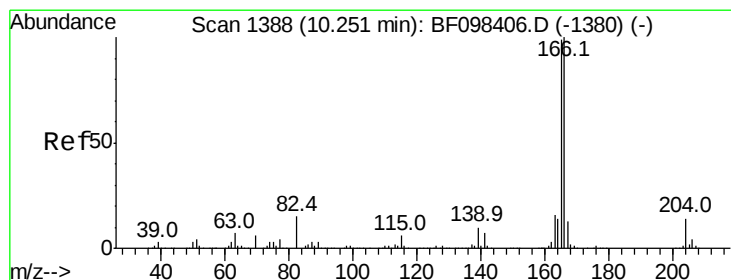
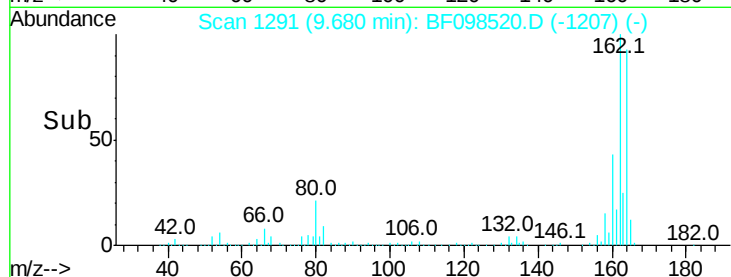
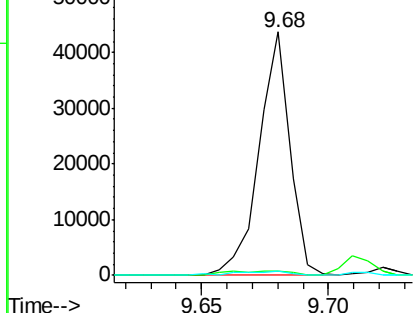
#50
 2,6-Dinitrotoluene
 Concen: 8.411 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. 0.19 min
 Lab File: BF098520.D
 Acq: 14 Sep 2017 11:02

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-091117-BDL

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	34.3	51.5#
89	1.7	37.1	55.7#

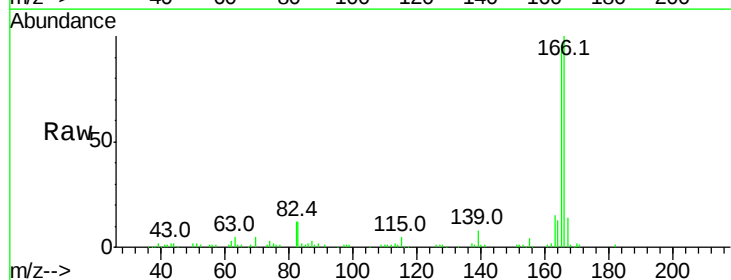


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

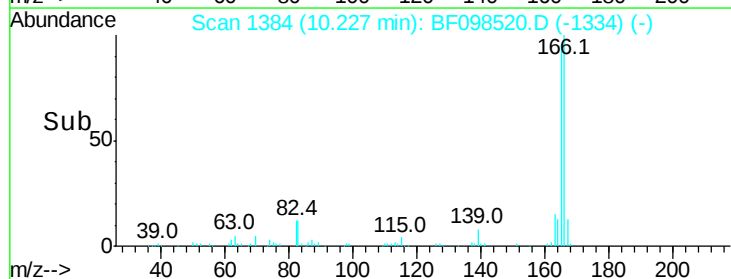
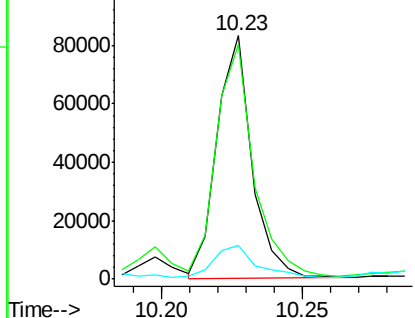


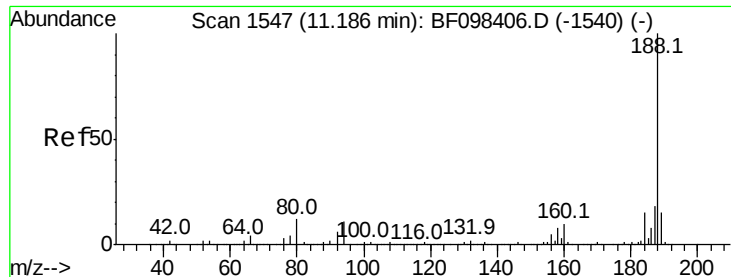
#57
 Fluorene
 Concen: 3.884 ng
 RT: 10.23 min Scan# 1384
 Delta R.T. -0.01 min
 Lab File: BF098520.D
 Acq: 14 Sep 2017 11:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.8	118.2
167	13.7	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

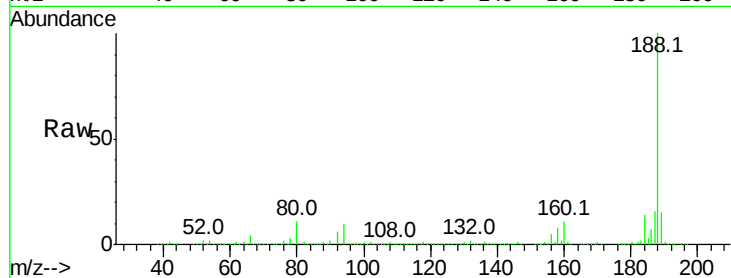
Tot Ion:188 Resp: 509624

Ion Ratio Lower Upper

188 100

94 10.3 9.4 14.2

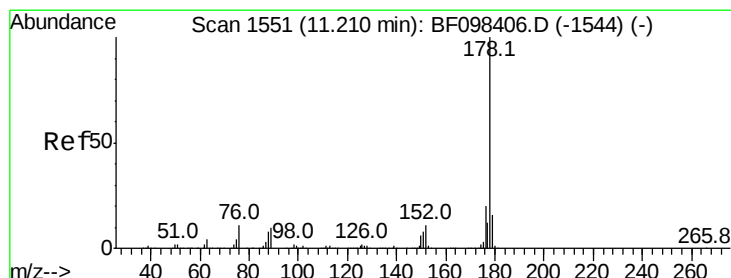
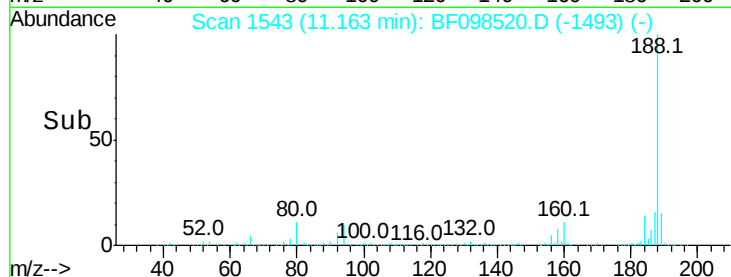
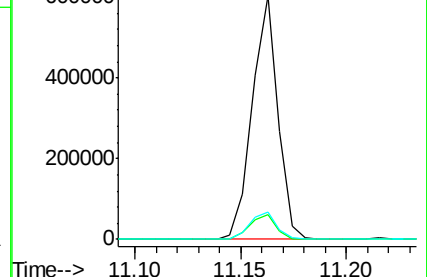
80 11.3 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 20.666 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

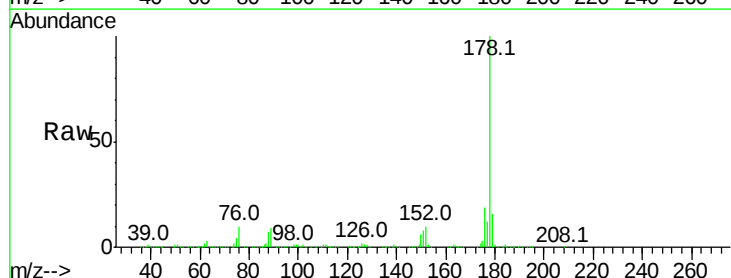
Tgt Ion:178 Resp: 558316

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

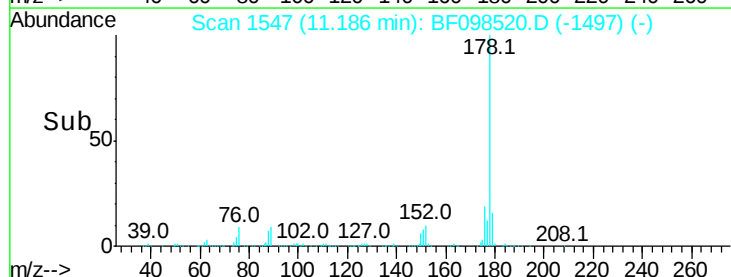
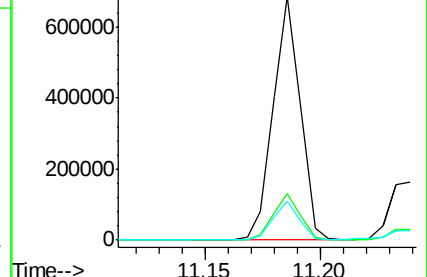
179 16.1 12.6 19.0

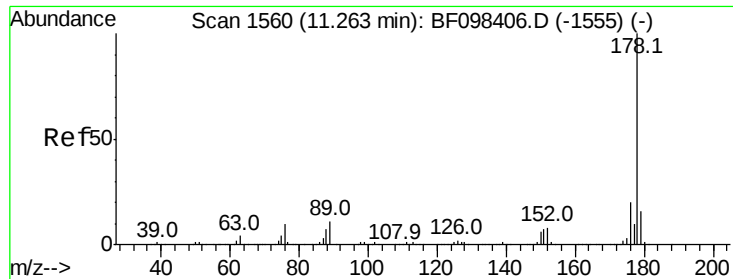


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.236 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

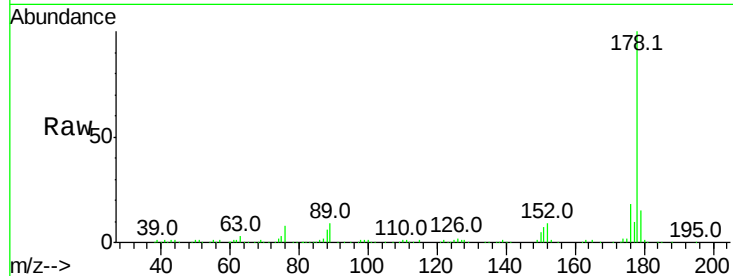
Tot Ion:178 Resp: 145245

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

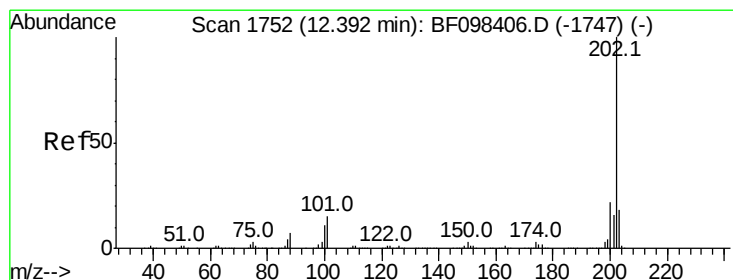
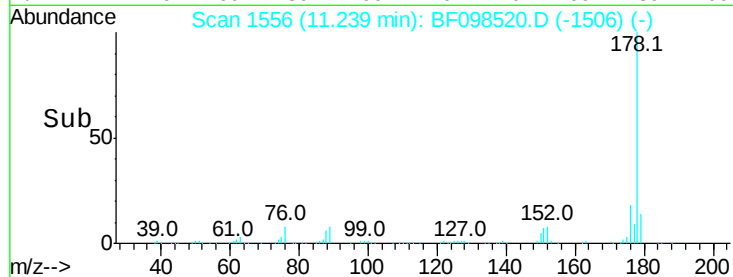
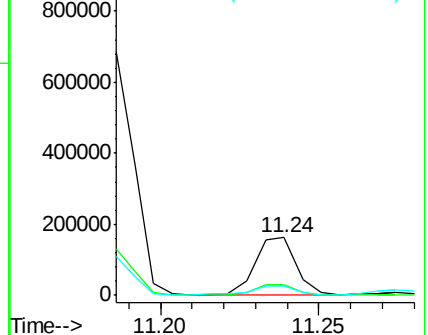
179 15.2 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 25.365 ng

RT: 12.37 min Scan# 1749

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

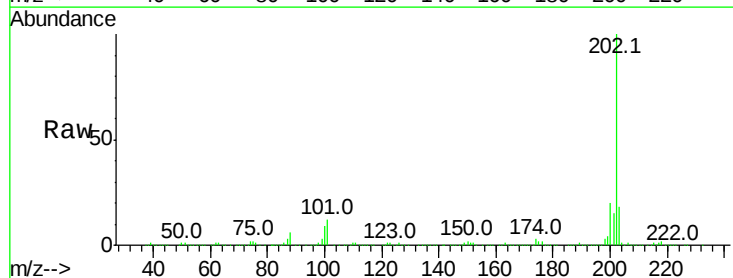
Tgt Ion:202 Resp: 686002

Ion Ratio Lower Upper

202 100

101 12.0 0.0 33.2

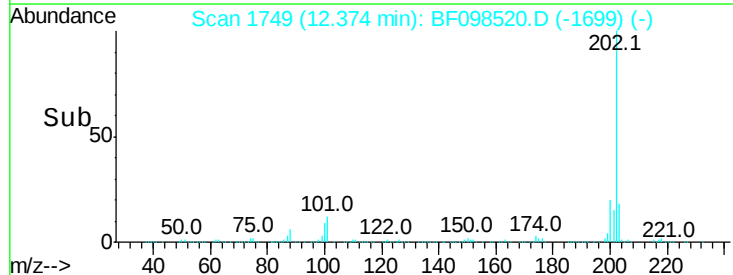
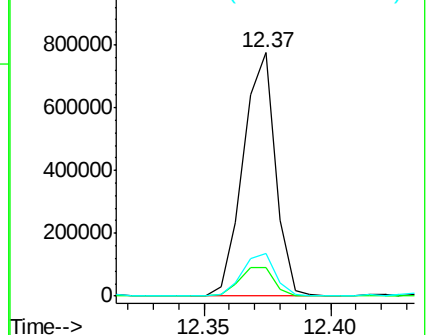
203 17.6 0.0 38.1

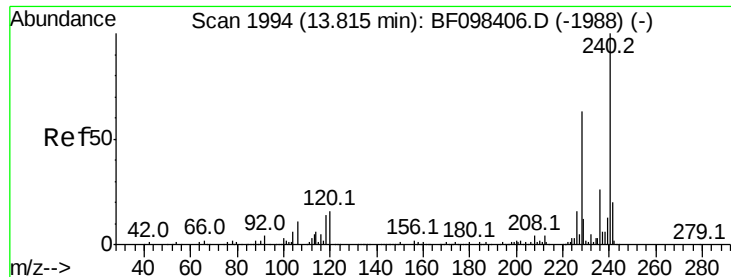


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.79 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

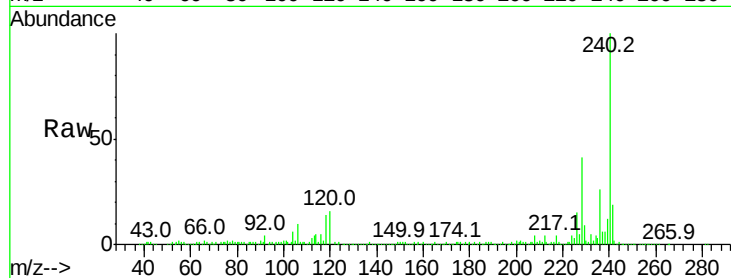
Tot Ion:240 Resp: 304712

Ion Ratio Lower Upper

240 100

120 15.8 5.8 8.8#

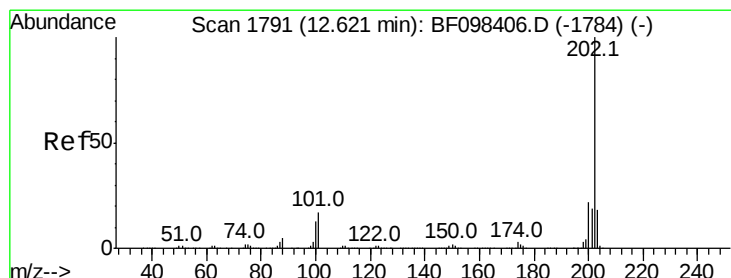
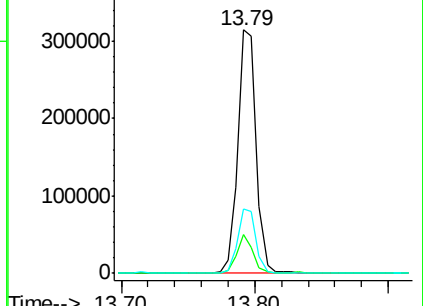
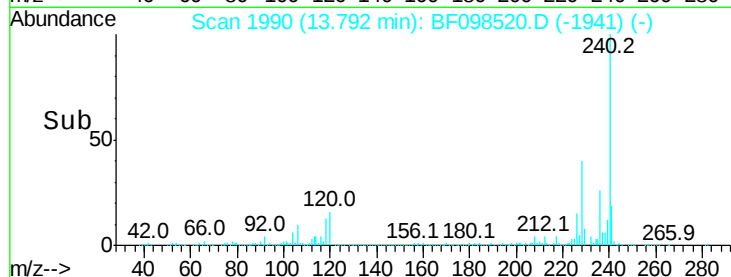
236 26.3 20.5 30.7



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: 27.554 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

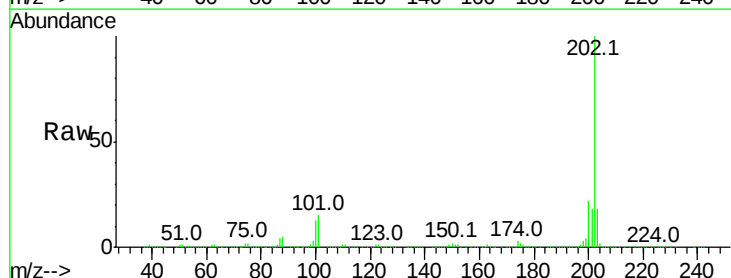
Tgt Ion:202 Resp: 662333

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

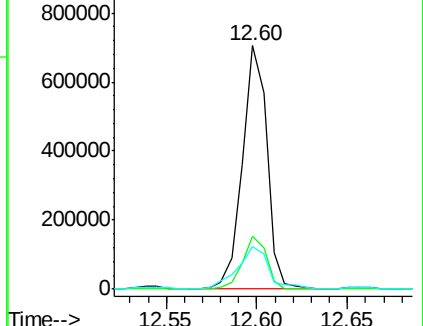
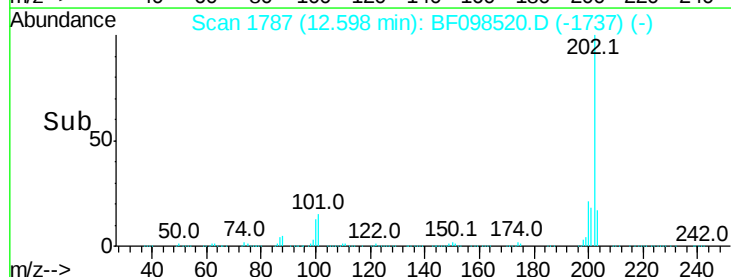
203 17.6 14.4 21.6

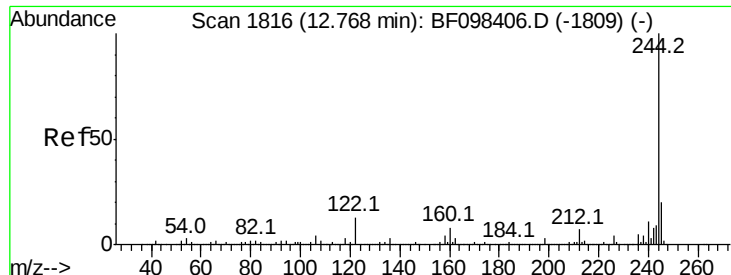


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.897 ng

RT: 12.74 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

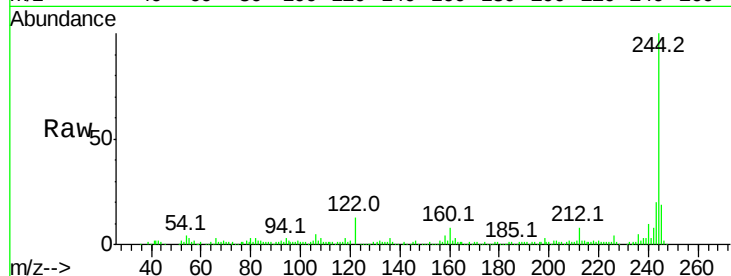
Tot Ion:244 Resp: 125597

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

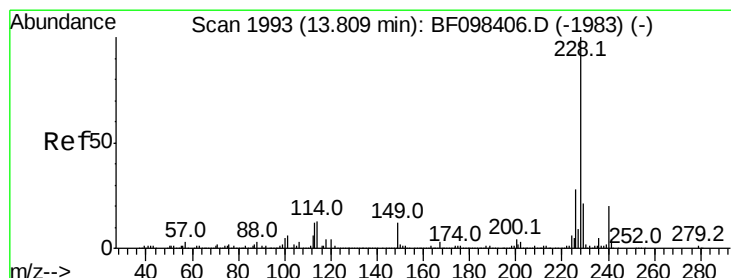
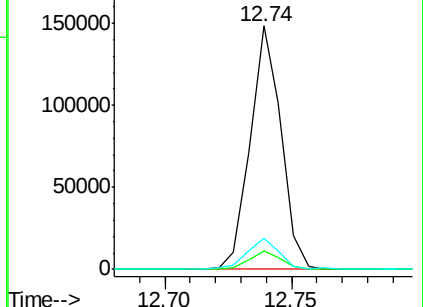
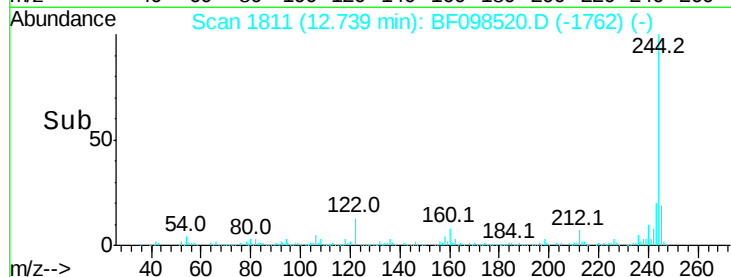
122 12.9 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 14.973 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

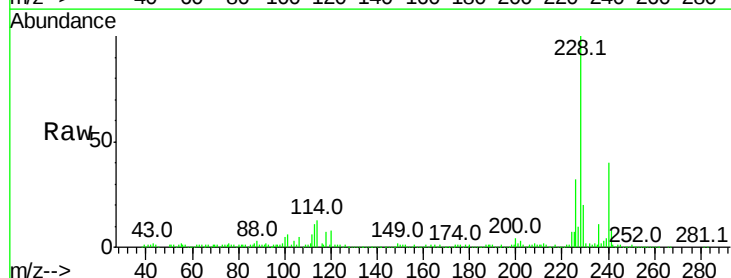
Tgt Ion:228 Resp: 267484

Ion Ratio Lower Upper

228 100

226 32.0 22.6 33.8

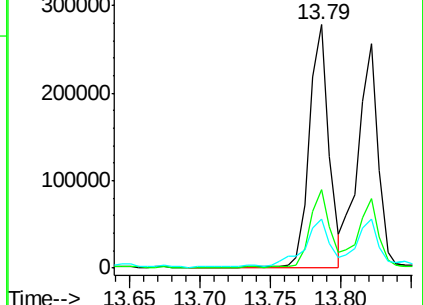
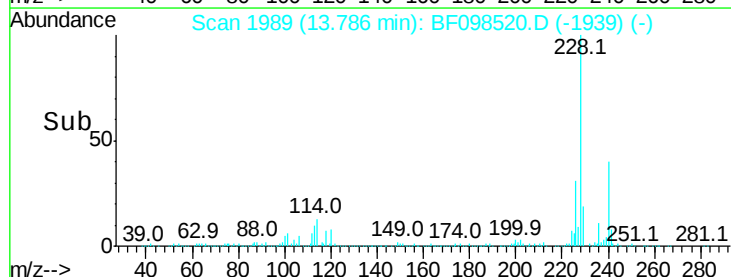
229 20.4 16.3 24.5

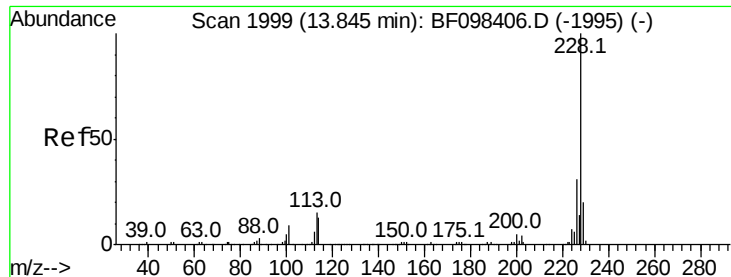


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 14.195 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

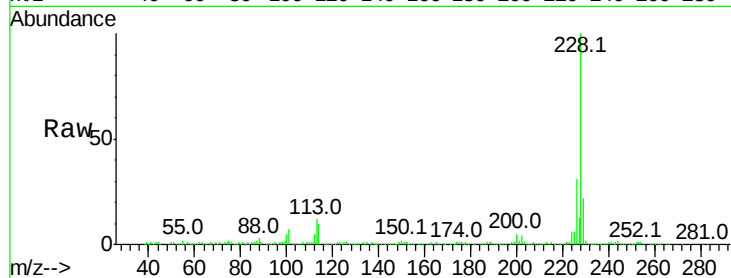
Tot Ion:228 Resp: 256342

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

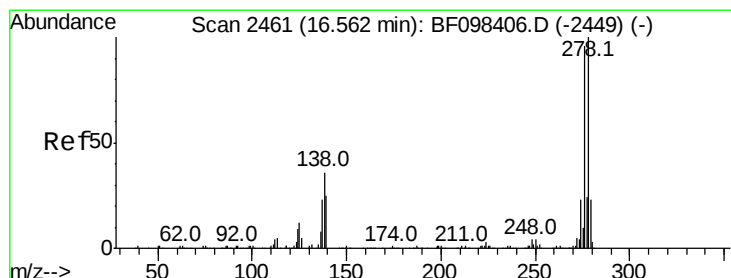
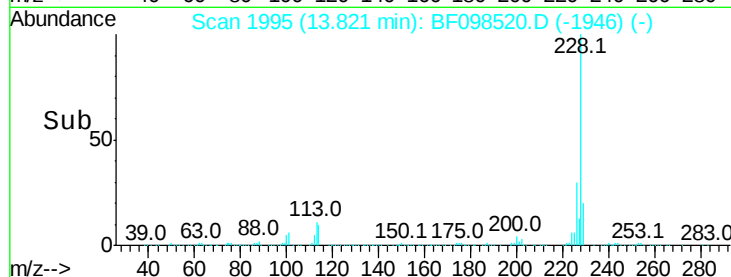
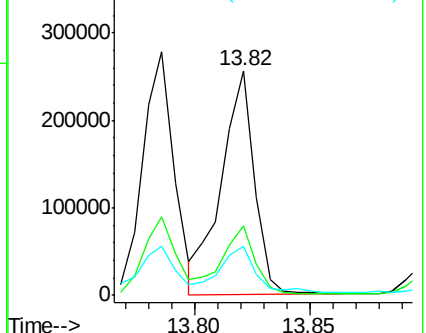
229 21.8 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.936 ng

RT: 16.53 min Scan# 2455

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

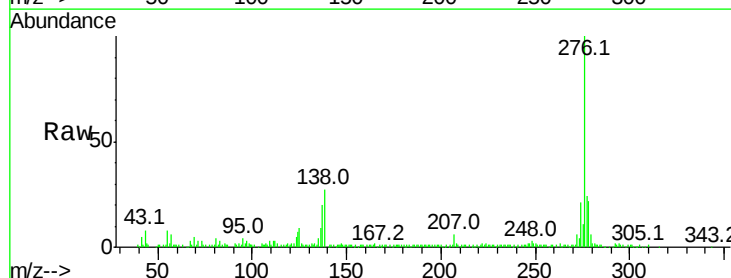
Tgt Ion:276 Resp: 138548

Ion Ratio Lower Upper

276 100

138 28.4 27.8 41.6

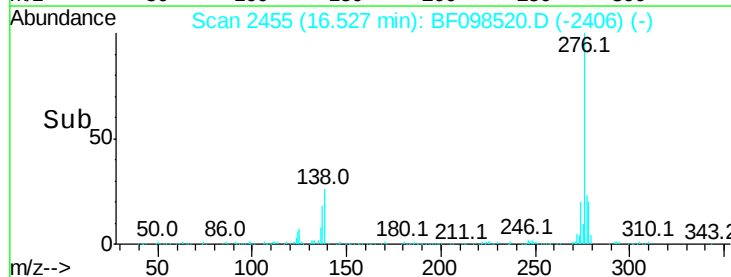
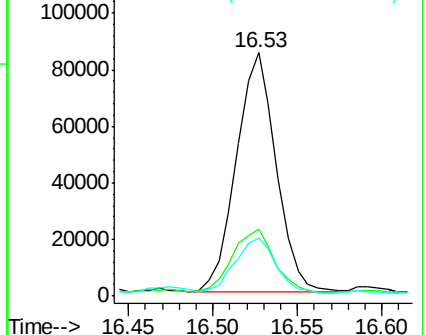
277 24.1 20.2 30.4

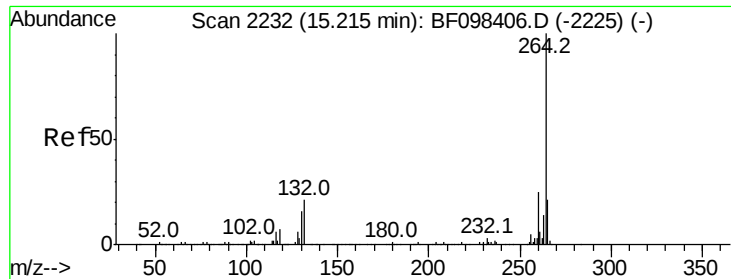


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

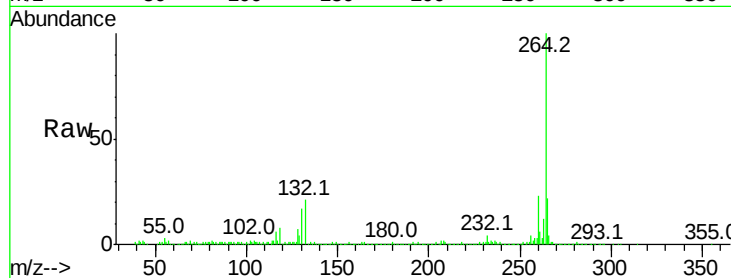




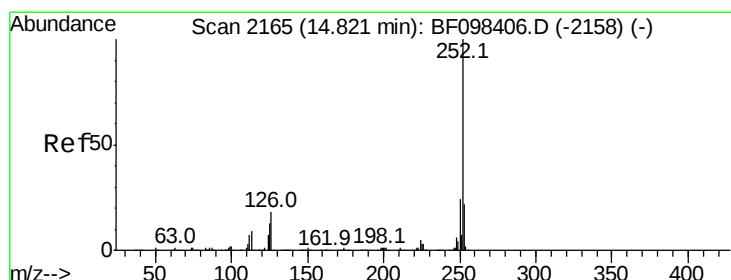
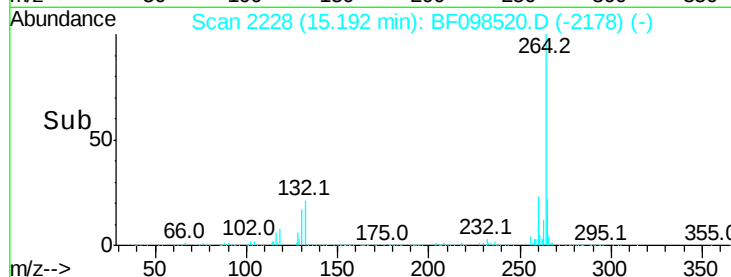
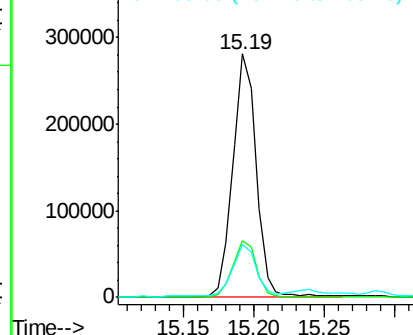
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.19 min Scan# 2228
Delta R.T. -0.01 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

Instrument :
BNA_F
ClientSampleId :
CL-02-091117-BDL

Tot Ion:264 Resp: 323681
Ion Ratio Lower Upper
264 100
260 23.1 19.5 29.3
265 21.9 17.2 25.8

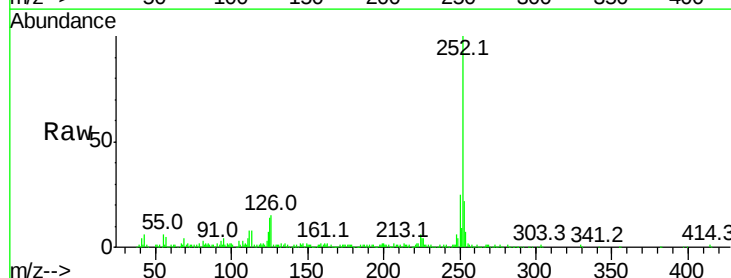


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

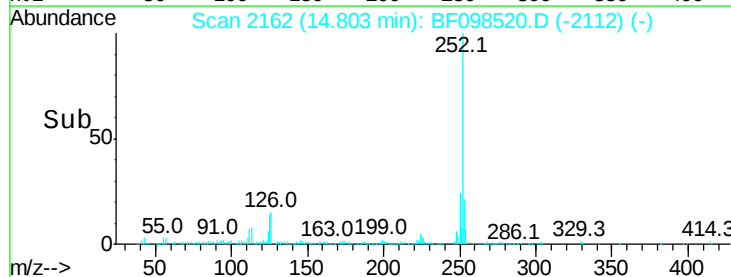
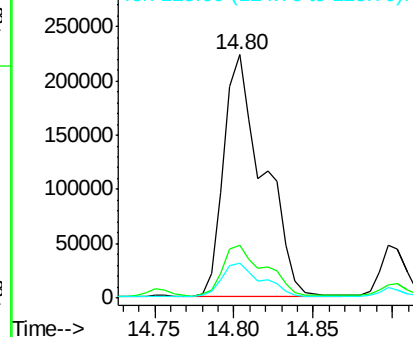


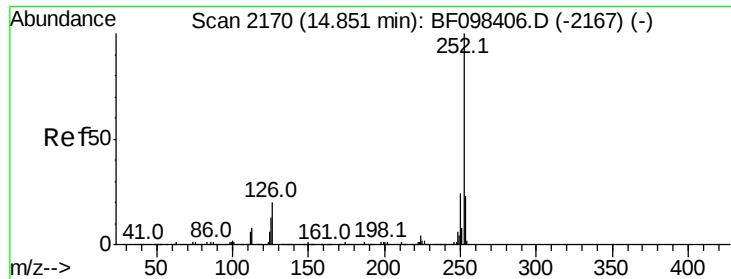
#87
Benzo(b)fluoranthene
Concen: 19.135 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

Tgt Ion:252 Resp: 389446
Ion Ratio Lower Upper
252 100
253 21.7 18.1 27.1
125 14.4 9.8 14.8



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

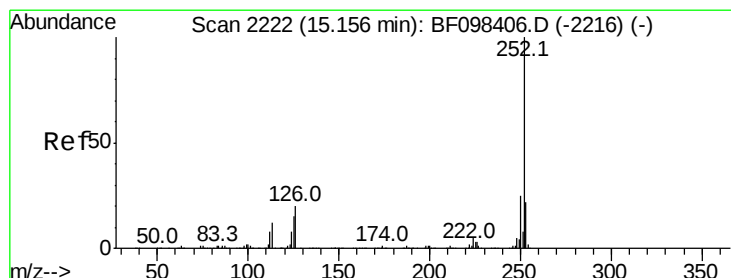
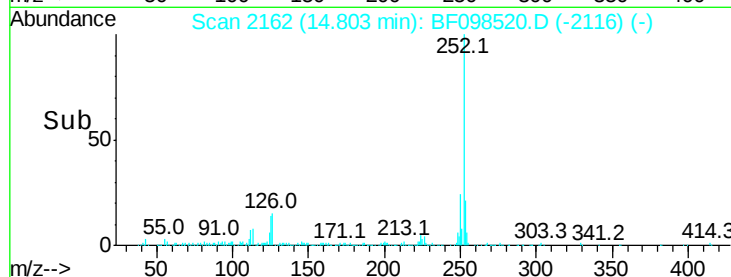
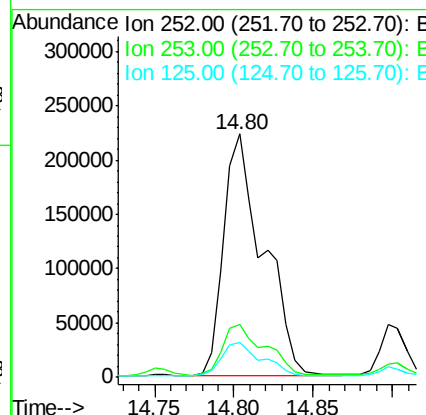
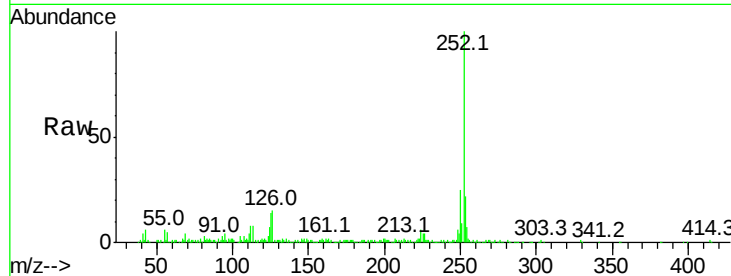




#88
Benzo(k)fluoranthene
Concen: 20.497 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.03 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

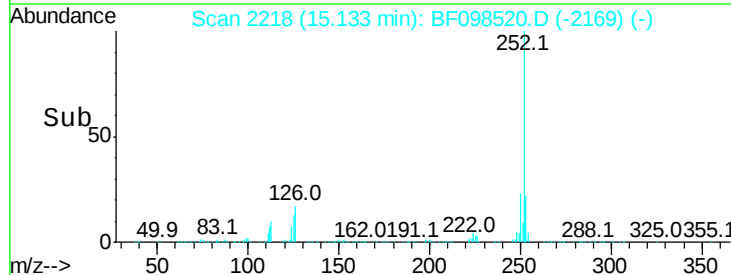
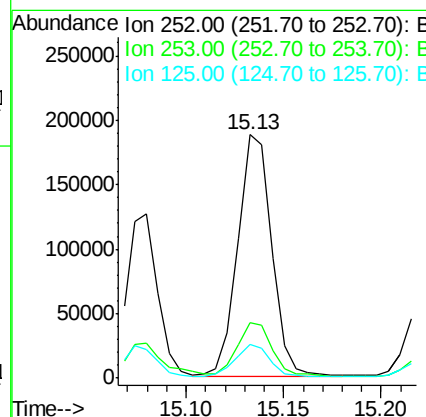
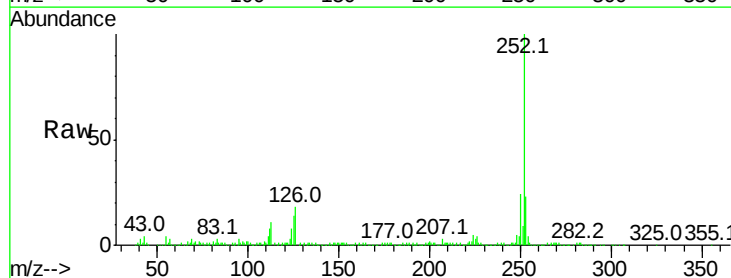
Instrument :
BNA_F
ClientSampleId :
CL-02-091117-BDL

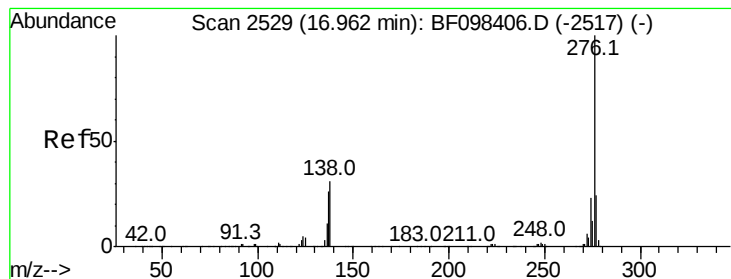
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.4	27.6
125	14.4	13.1	19.7



#89
Benzo(a)pyrene
Concen: 12.528 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF098520.D
Acq: 14 Sep 2017 11:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	13.7	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 10.510 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF098520.D

Acq: 14 Sep 2017 11:02

Instrument :

BNA_F

ClientSampleId :

CL-02-091117-BDL

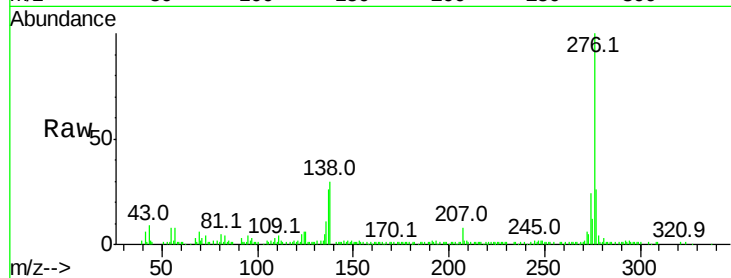
Tot Ion:276 Resp: 139424

Ion Ratio Lower Upper

276 100

277 25.9 18.6 28.0

138 30.3 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

