

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070916\
 Data File : BF088894.D
 Acq On : 10 Jul 2016 2:51
 Operator : UM/SJ
 Sample : H3889-02DL 25X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-2DL

Quant Time: Jul 11 04:39:23 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 18:51:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	81583	20.00	ng	-0.01
21) Naphthalene-d8	8.00	136	312782	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	150506	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	296275	20.00	ng	-0.01
75) Chrysene-d12	13.85	240	151166	20.00	ng	-0.02
86) Perylene-d12	15.23	264	171139	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	21684	3.98	ng	-0.02
7) Phenol-d6	6.34	99	28241	4.02	ng	-0.03
23) Nitrobenzene-d5	7.28	82	18416	3.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	6015	4.30	ng	-0.02
44) 2-Fluorobiphenyl	9.08	172	32201	3.38	ng	-0.01
78) Terphenyl-d14	12.81	244	26586	3.92	ng	-0.01
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	9.75	165	19410	8.17	ng	# 37
56) 2,4-Dinitrotoluene	9.75	165	19410	6.25	ng	# 36
70) Phenanthrene	11.26	178	78074	4.82	ng	97
73) Di-n-butylphthalate	11.80	149	84145	4.77	ng	98
74) Fluoranthene	12.43	202	327719	19.96	ng	99
77) Pyrene	12.66	202	329644	25.72	ng	99
80) Benzo(a)anthracene	13.84	228	228956	23.52	ng	97
82) Chrysene	13.84	228	228956	23.77	ng	95
85) Indeno(1,2,3-cd)pyrene	16.53	276	120005	16.20	ng	# 100
87) Benzo(b)fluoranthene	14.86	252	343563	32.00	ng	# 97
88) Benzo(k)fluoranthene	14.86	252	343509	36.76	ng	98
89) Benzo(a)pyrene	15.12	252	136449	15.01	ng	99
90) Dibenzo(a,h)anthracene	16.54	278	35364	4.66	ng	# 90
91) Benzo(g,h,i)perylene	16.91	276	116861	14.88	ng	# 93

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

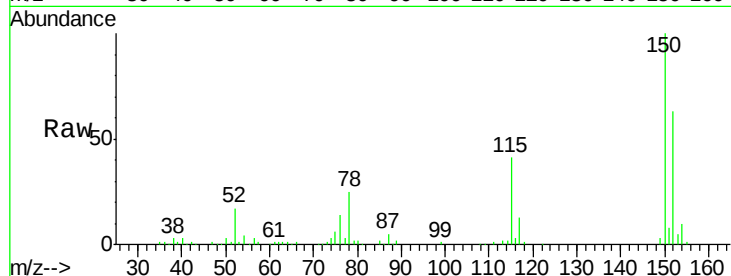


#1

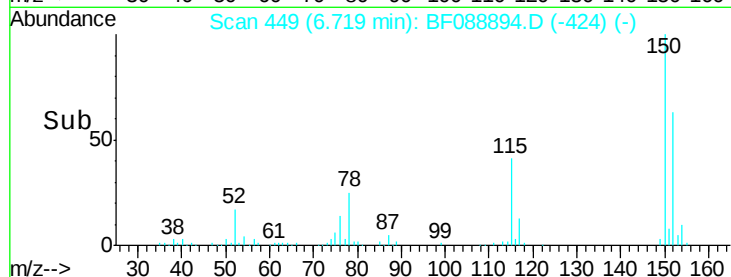
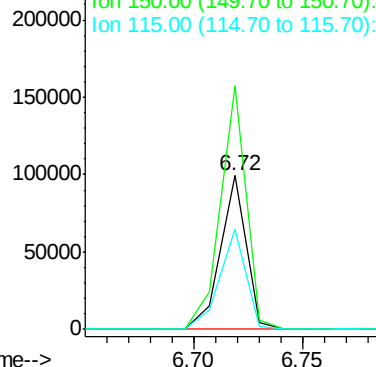
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 449
Delta R.T. -0.01 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Instrument :
BNA_F
ClientSampleId :
SS-2DL

Tgt Ion:152 Resp: 81583
Ion Ratio Lower Upper
152 100
150 158.2 123.8 185.6
115 65.2 39.6 59.4#



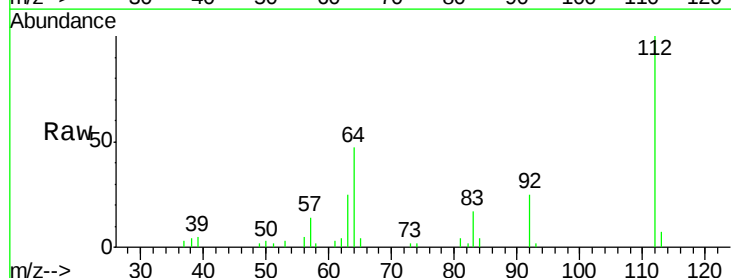
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



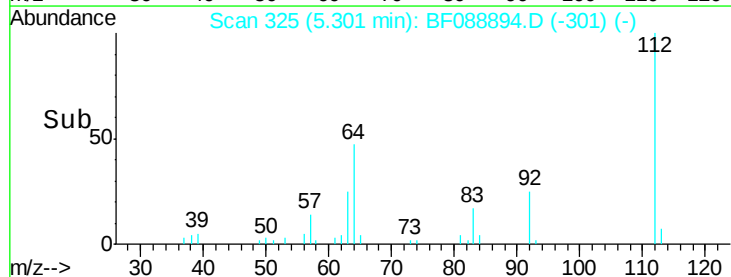
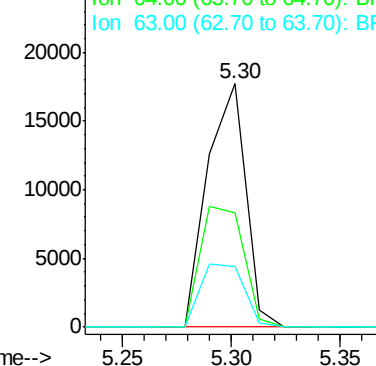
#5

2-Fluorophenol
Concen: 3.98 ng
RT: 5.30 min Scan# 325
Delta R.T. -0.02 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Tgt Ion:112 Resp: 21684
Ion Ratio Lower Upper
112 100
64 46.8 42.2 63.2
63 25.1 21.8 32.8



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: 4.02 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.03 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Instrument :

BNA_F

ClientSampleId :

SS-2DL

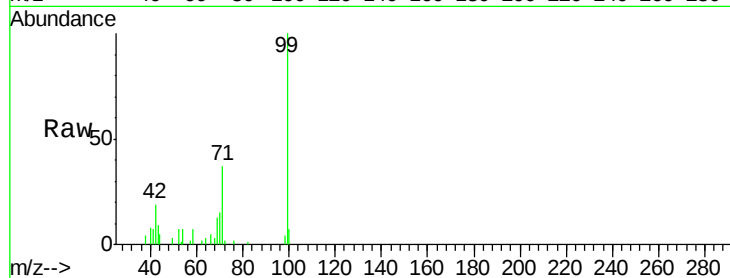
Tgt Ion: 99 Resp: 28241

Ion Ratio Lower Upper

99 100

42 19.4 12.2 18.2#

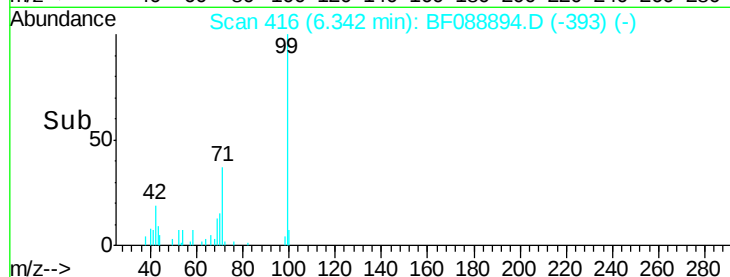
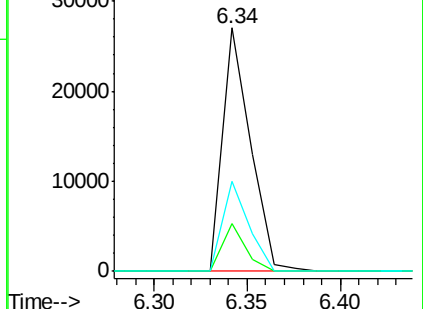
71 37.0 23.4 35.0#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 561

Delta R.T. -0.02 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Tgt Ion: 136 Resp: 312782

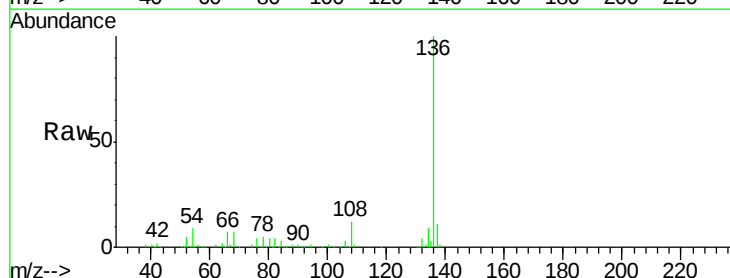
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 9.1 6.6 10.0

68 7.4 5.1 7.7

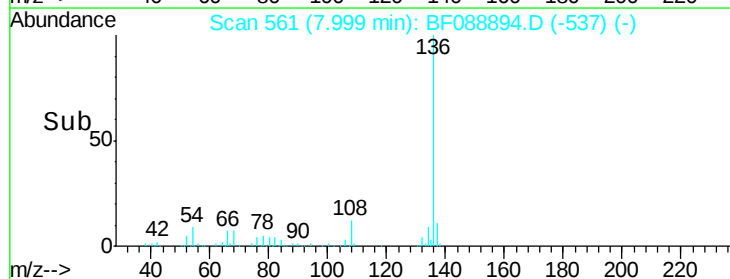
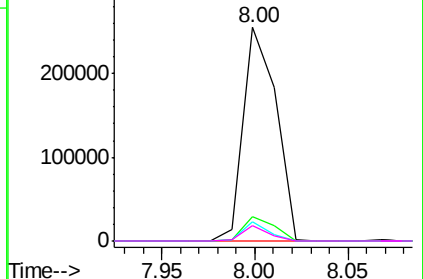


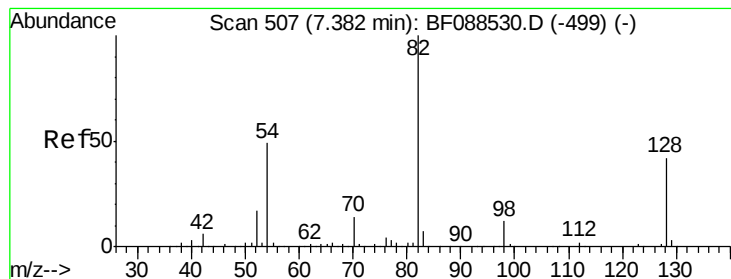
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 3.09 ng

RT: 7.28 min Scan# 498

Delta R.T. -0.02 min

Lab File: BF088894.D

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Instrument :

BNA_F

ClientSampleId :

SS-2DL

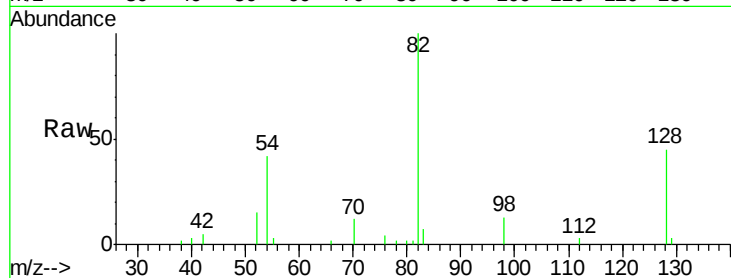
Tgt Ion: 82 Resp: 18416

Ion Ratio Lower Upper

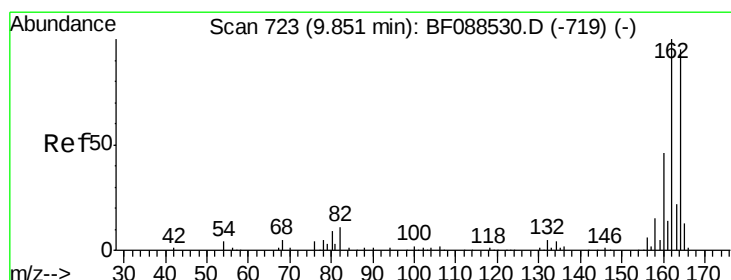
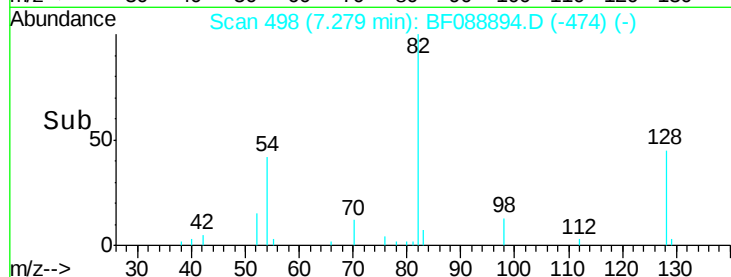
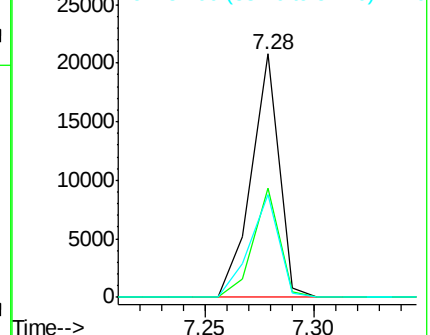
82 100

128 44.9 35.9 53.9

54 42.2 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.02 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

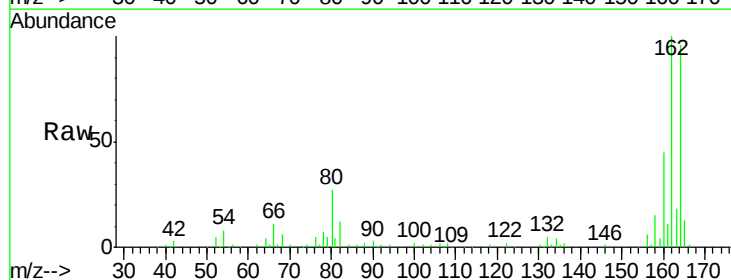
Tgt Ion: 164 Resp: 150506

Ion Ratio Lower Upper

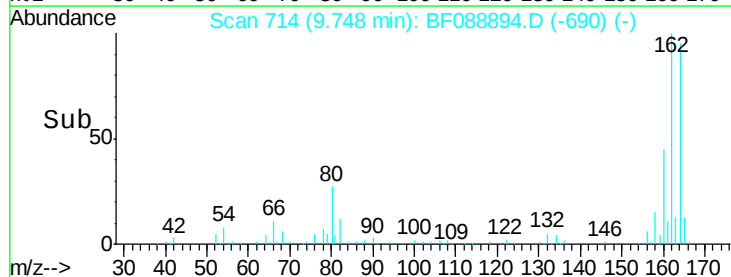
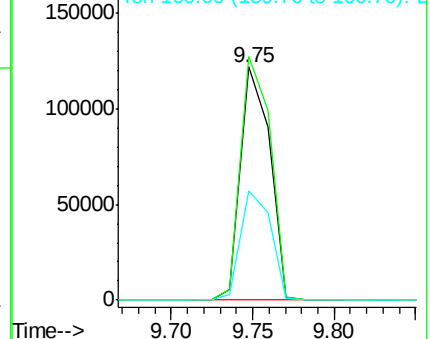
164 100

162 104.5 85.4 128.2

160 47.1 39.5 59.3



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

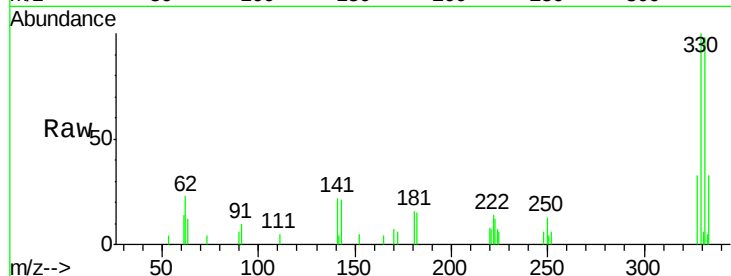




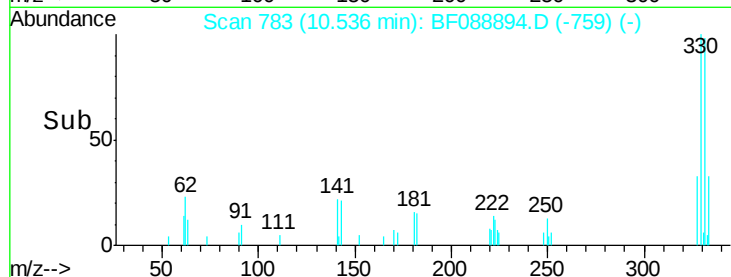
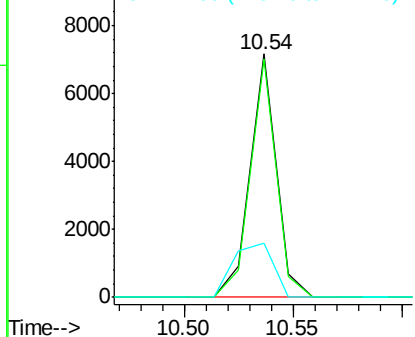
#41
 2,4,6-Tribromophenol
 Concen: 4.30 ng
 RT: 10.54 min Scan# 783
 Delta R.T. -0.02 min
 Lab File: BF088894.D
 Acq: 10 Jul 2016 2:51

Instrument :
 BNA_F
 ClientSampleId :
 SS-2DL

Tgt Ion: 330 Resp: 6015
 Ion Ratio Lower Upper
 330 100
 332 96.4 0.0 0.0#
 141 34.0 0.0 0.0#

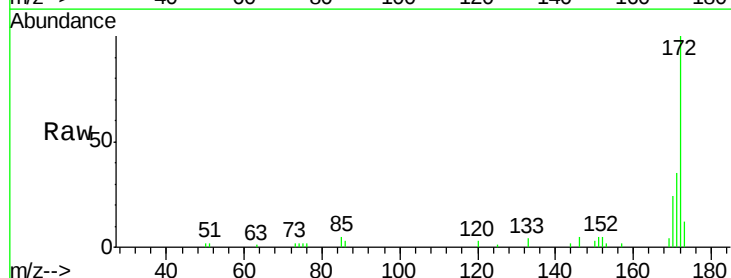


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

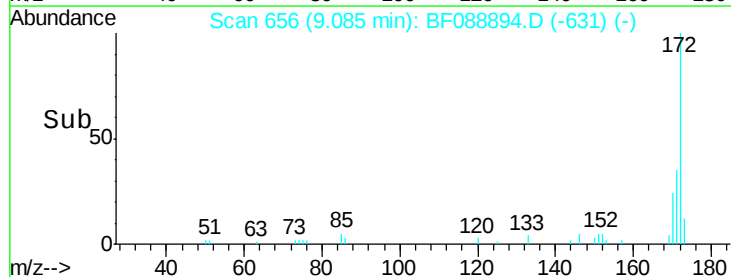
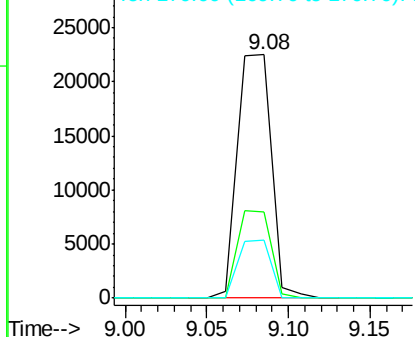


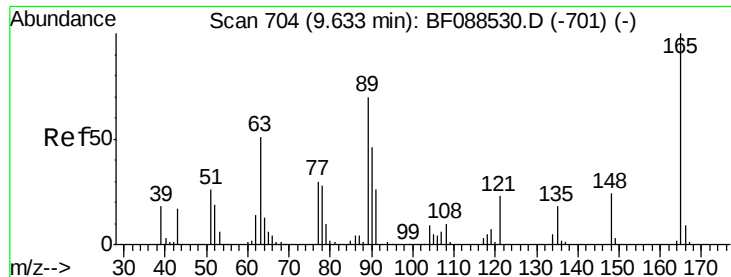
#44
 2-Fluorobiphenyl
 Concen: 3.38 ng
 RT: 9.08 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: BF088894.D
 Acq: 10 Jul 2016 2:51

Tgt Ion: 172 Resp: 32201
 Ion Ratio Lower Upper
 172 100
 171 35.2 28.6 43.0
 170 23.9 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

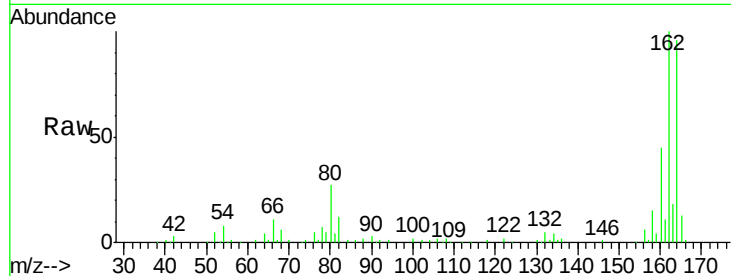




#50
 2,6-Dinitrotoluene
 Concen: 8.17 ng
 RT: 9.75 min Scan# 714
 Delta R.T. 0.18 min
 Lab File: BF088894.D
 Acq: 10 Jul 2016 2:51

Instrument :
 BNA_F
 ClientSampleId :
 SS-2DL

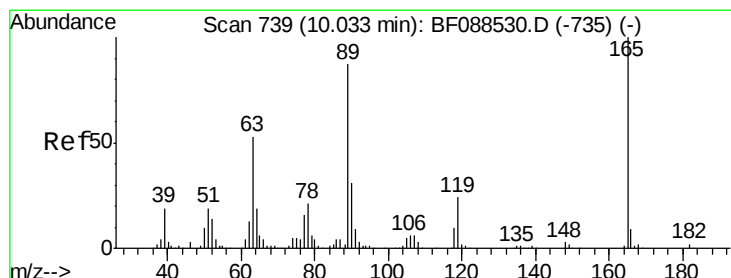
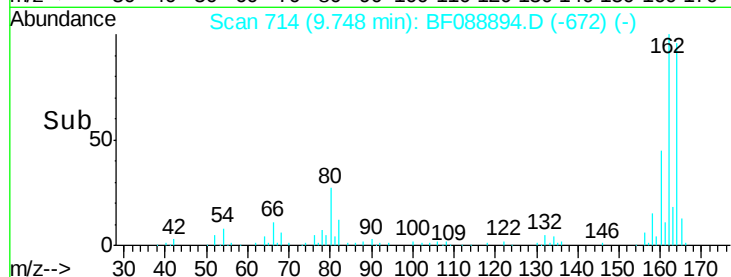
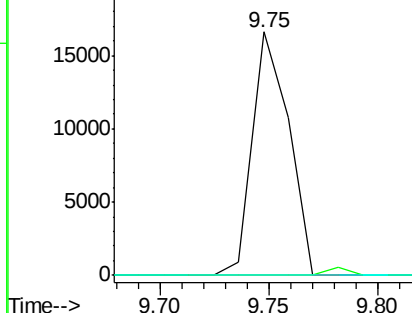
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	28.1	42.1#
89	0.0	32.2	48.2#



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



#56
 2,4-Dinitrotoluene
 Concen: 6.25 ng
 RT: 9.75 min Scan# 714
 Delta R.T. -0.21 min
 Lab File: BF088894.D
 Acq: 10 Jul 2016 2:51

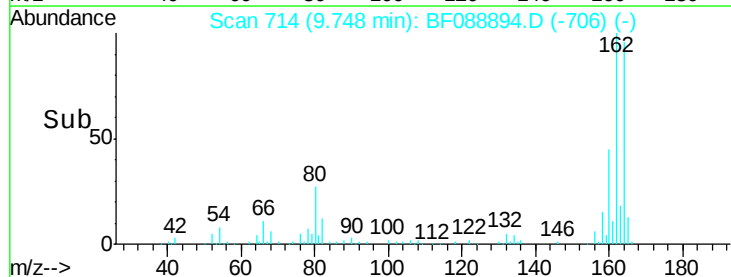
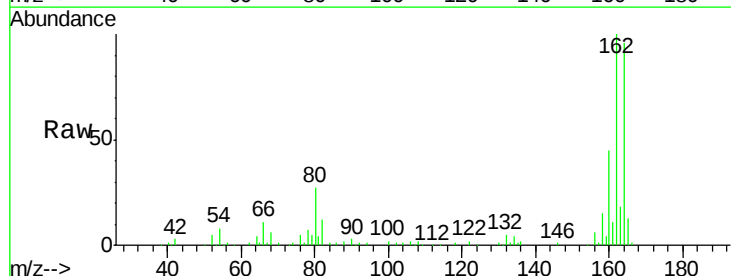
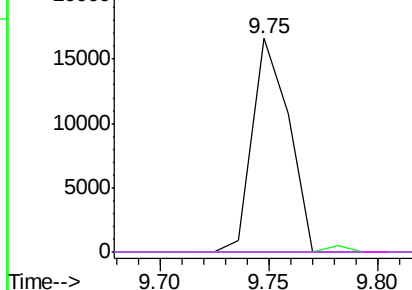
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

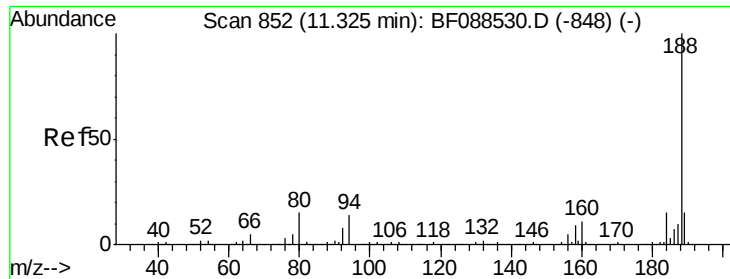
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

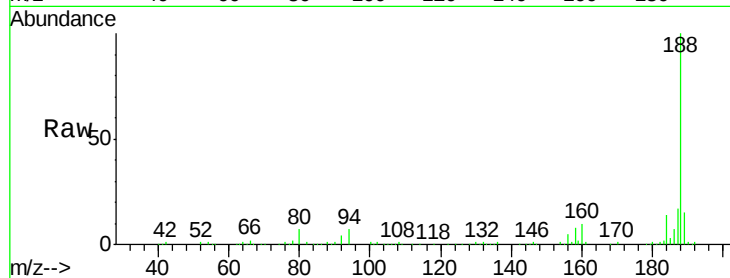




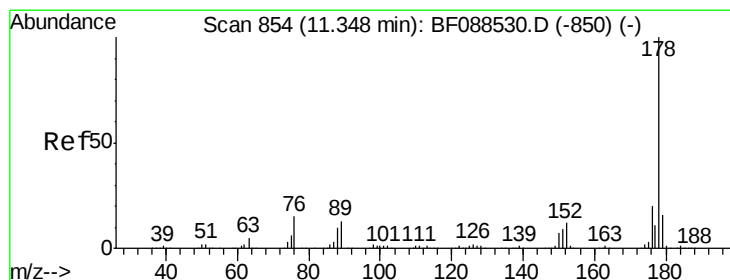
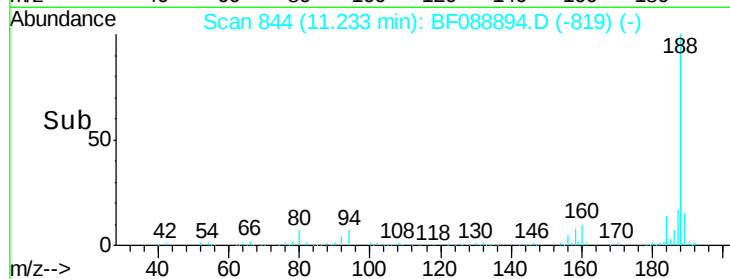
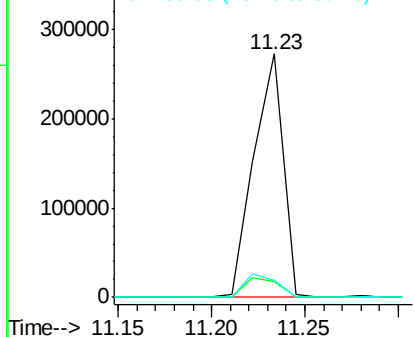
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.23 min Scan# 844
Delta R.T. -0.01 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Instrument :
BNA_F
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SS-2DL

Tgt Ion:188 Resp: 296275
Ion Ratio Lower Upper
188 100
94 6.7 9.0 13.6#
80 7.1 10.0 15.0#

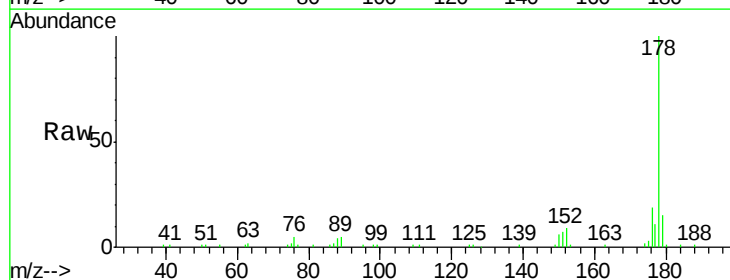


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

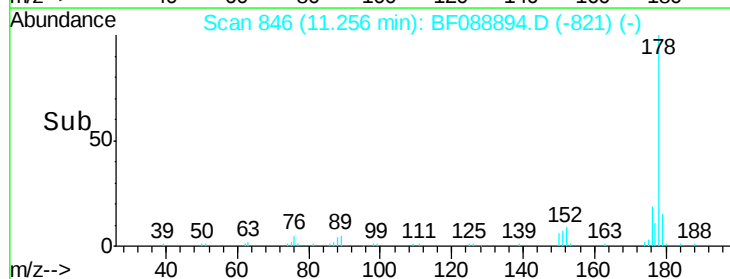
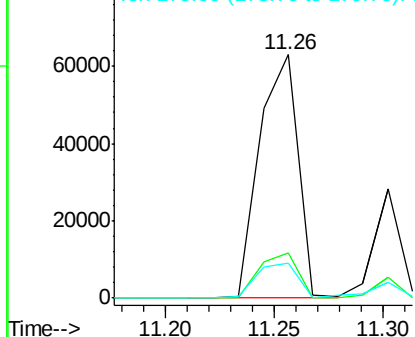


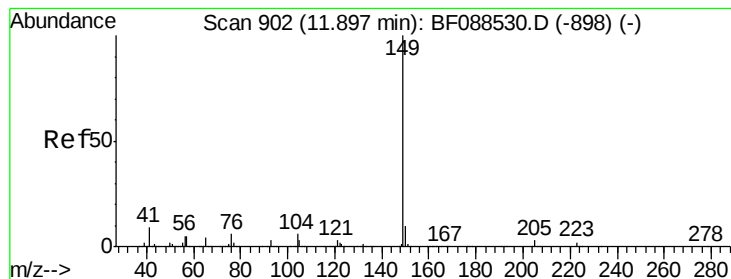
#70
Phenanthrene
Concen: 4.82 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.01 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Tgt Ion:178 Resp: 78074
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 14.5 13.0 19.4



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





#73

Di-n-butylphthalate

Concen: 4.77 ng

RT: 11.80 min Scan# 894

Delta R.T. -0.01 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Instrument :

BNA_F

ClientSampleId :

SS-2DL

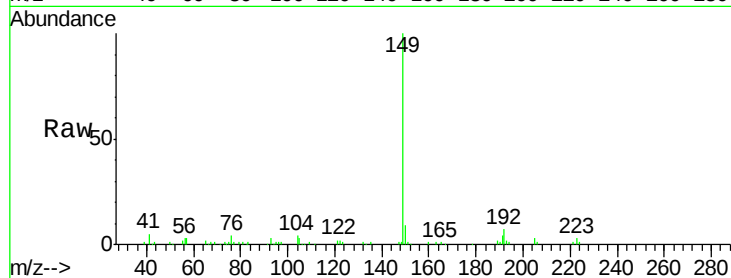
Tgt Ion:149 Resp: 84145

Ion Ratio Lower Upper

149 100

150 8.9 7.8 11.6

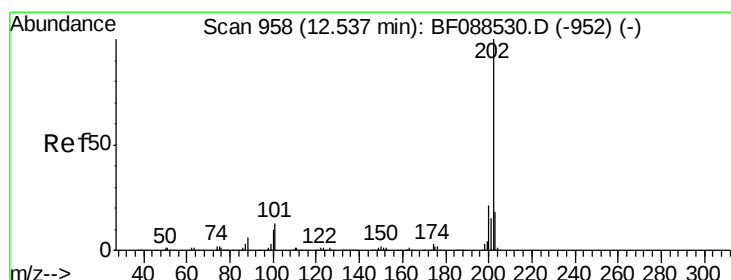
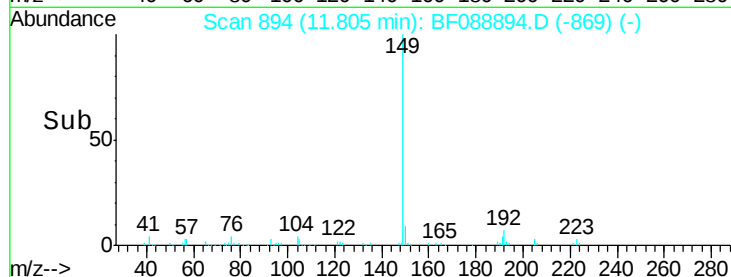
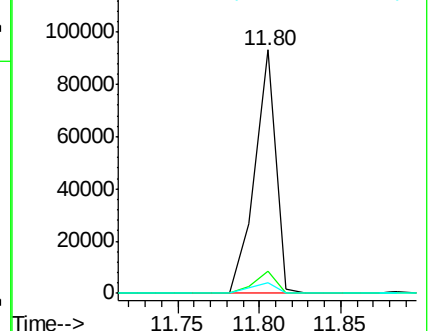
104 4.2 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 19.96 ng

RT: 12.43 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

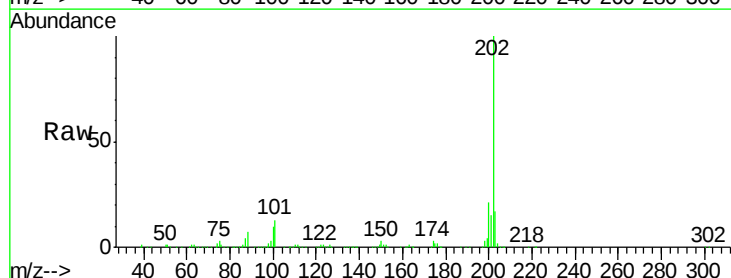
Tgt Ion:202 Resp: 327719

Ion Ratio Lower Upper

202 100

101 13.0 0.0 33.1

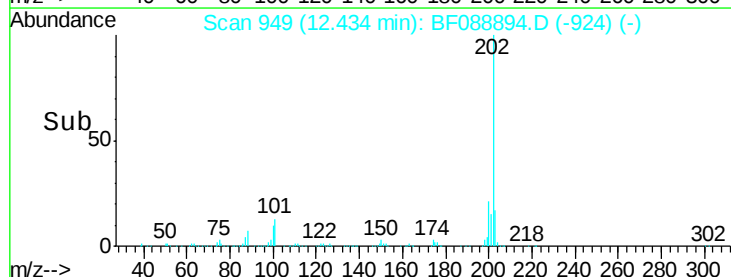
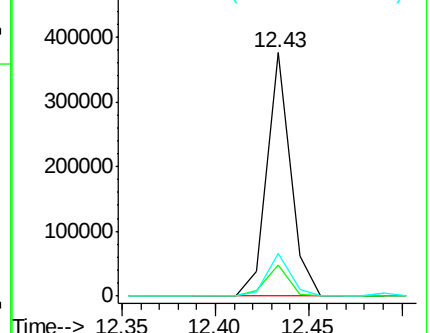
203 17.4 0.0 38.1



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: 20.00 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.02 min

Lab File: BF088894.D

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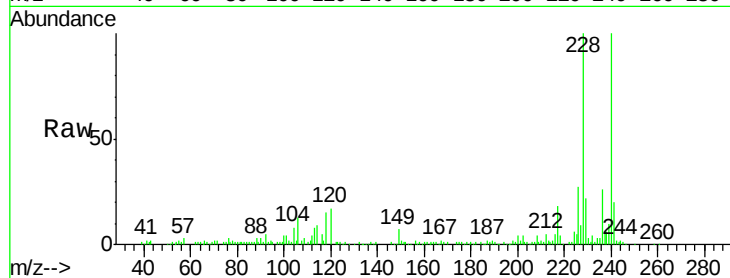
Tgt Ion:240 Resp: 151166

Ion Ratio Lower Upper

240 100

120 17.0 6.8 10.2#

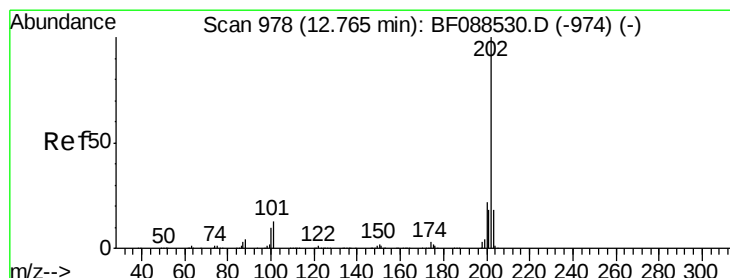
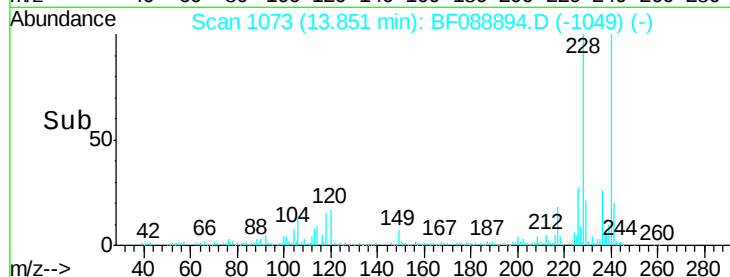
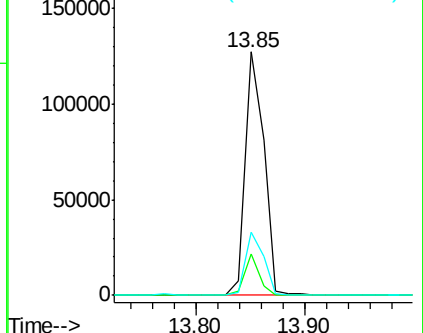
236 25.9 20.2 30.2



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



#77

Pyrene

Concen: 25.72 ng

RT: 12.66 min Scan# 969

Delta R.T. -0.01 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

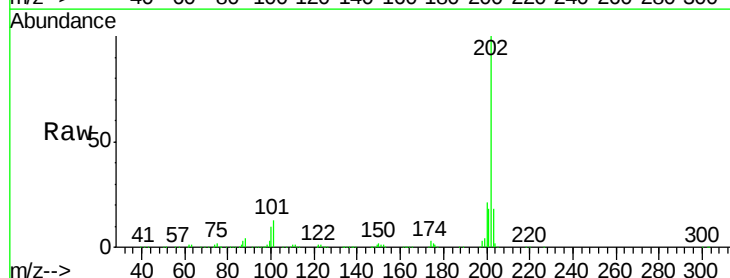
Tgt Ion:202 Resp: 329644

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

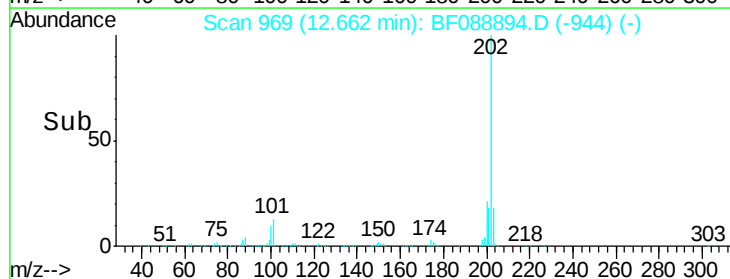
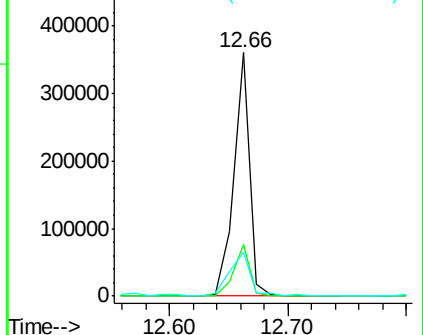
203 17.8 14.5 21.7



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: 3.92 ng

RT: 12.81 min Scan# 982

Delta R.T. -0.01 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Instrument :

BNA_F

ClientSampleId :

SS-2DL

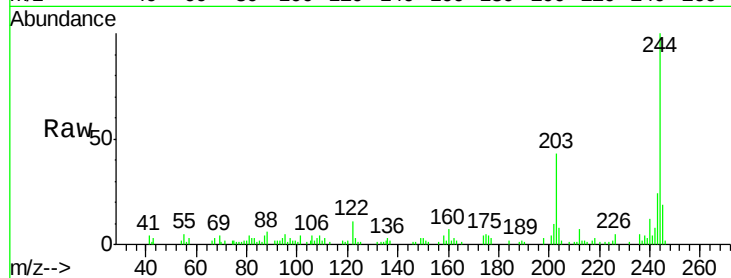
Tgt Ion:244 Resp: 26586

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

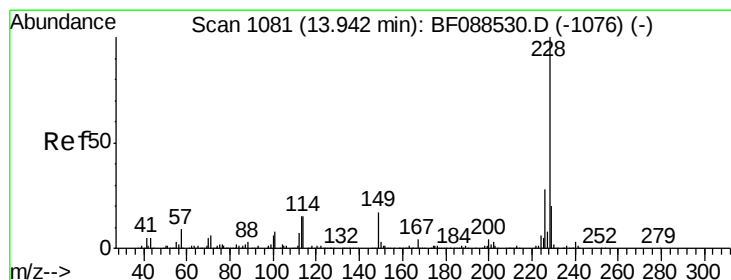
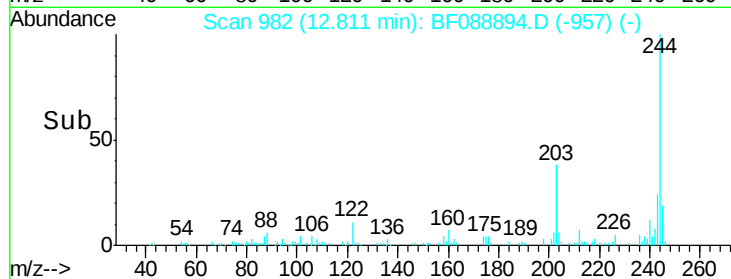
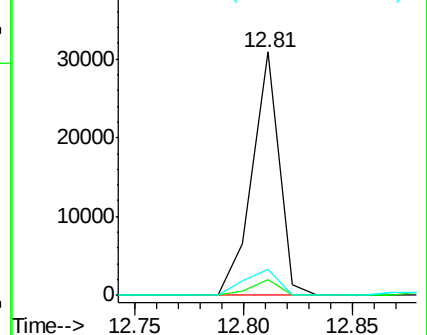
122 10.9 11.2 16.8#



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



#80

Benzo(a)anthracene

Concen: 23.52 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

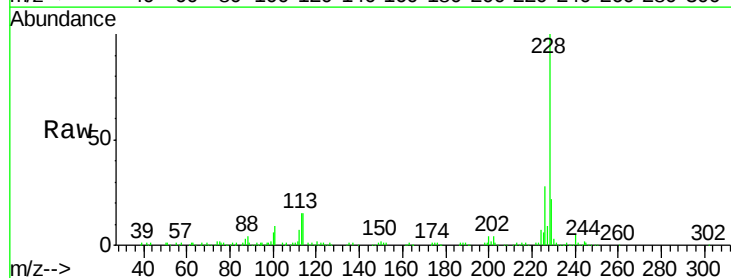
Tgt Ion:228 Resp: 228956

Ion Ratio Lower Upper

228 100

226 28.5 22.3 33.5

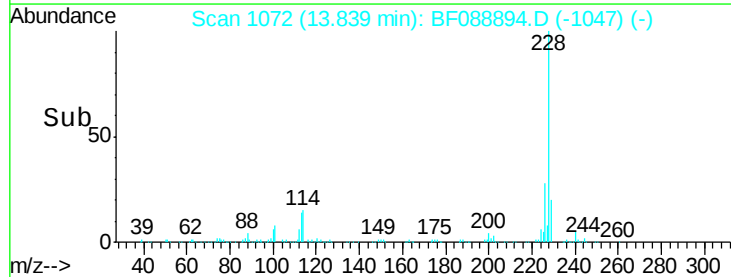
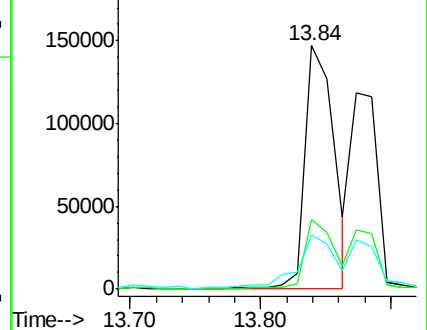
229 22.2 16.0 24.0

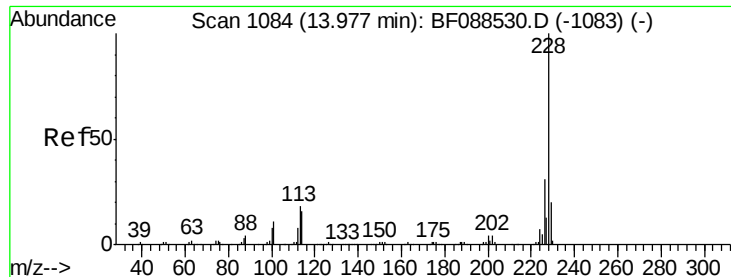


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 23.77 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.06 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Instrument :

BNA_F

ClientSampleId :

SS-2DL

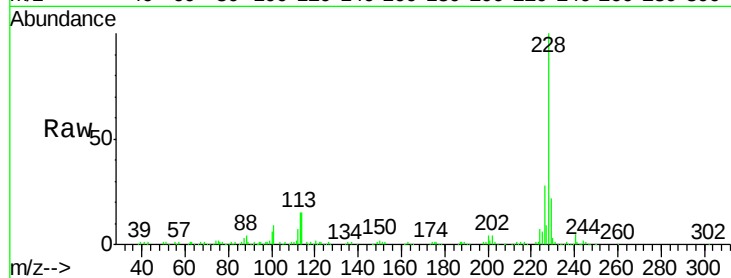
Tgt Ion:228 Resp: 228956

Ion Ratio Lower Upper

228 100

226 28.5 25.4 38.2

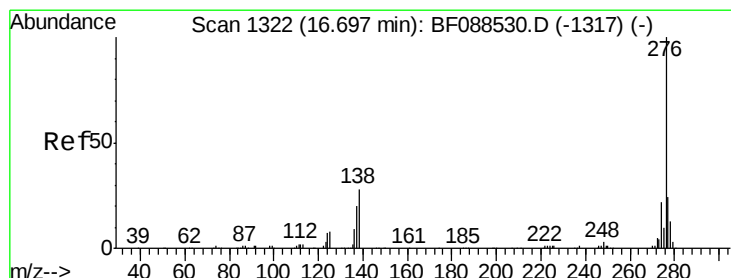
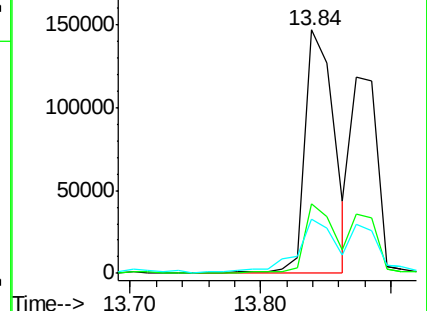
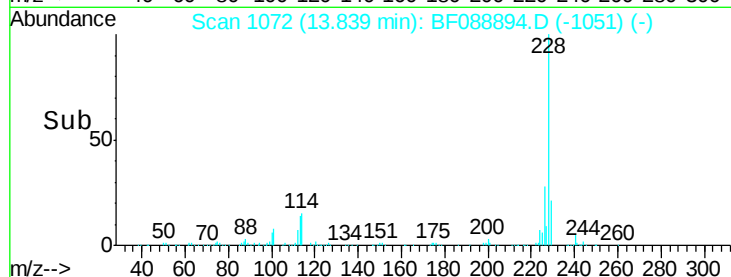
229 22.2 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 16.20 ng

RT: 16.53 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

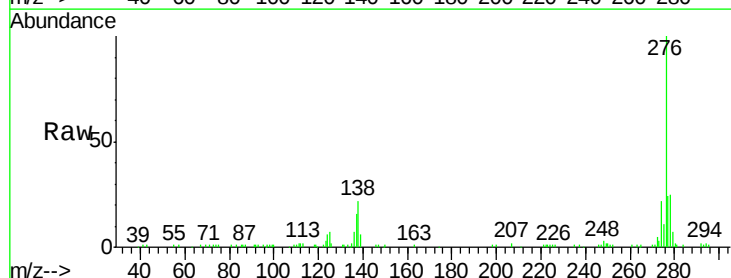
Tgt Ion:276 Resp: 120005

Ion Ratio Lower Upper

276 100

138 27.3 0.0 0.0#

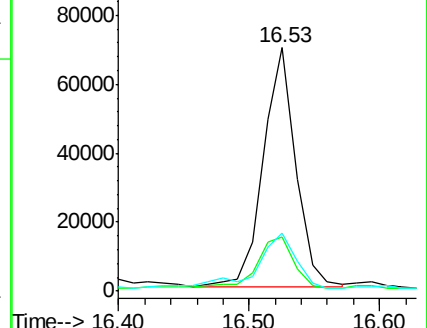
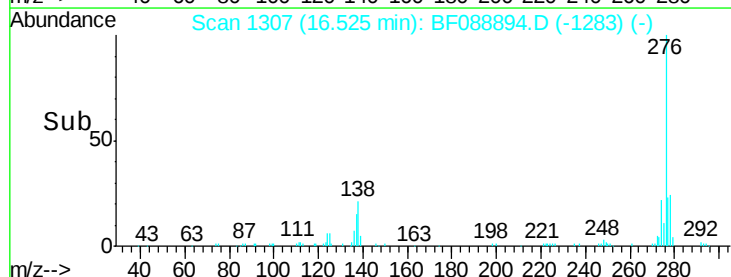
277 29.3 0.0 0.0#

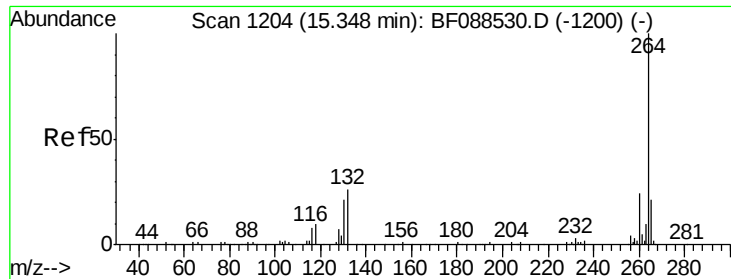


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

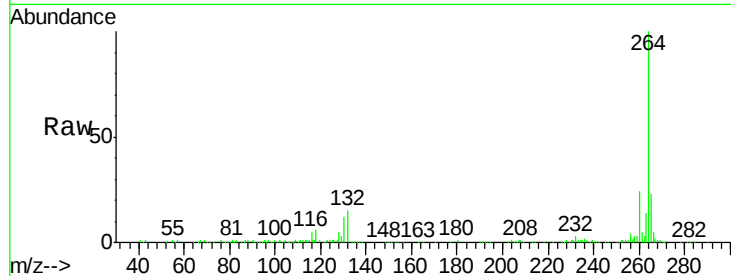




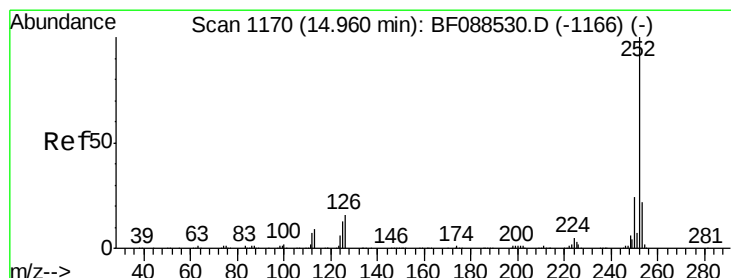
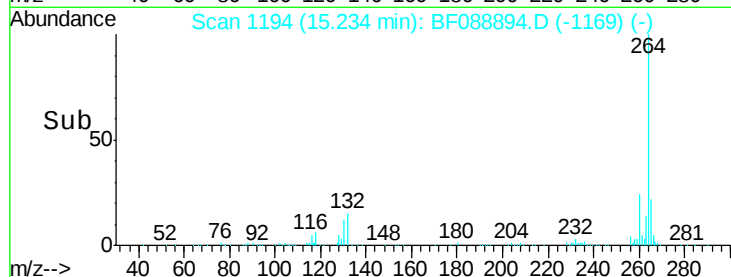
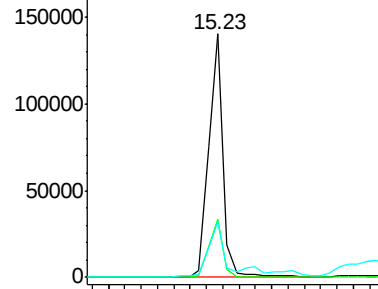
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.23 min Scan# 1194
Delta R.T. -0.01 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Instrument :
BNA_F
ClientSampleId :
SS-2DL

Tgt Ion: 264 Resp: 171139
Ion Ratio Lower Upper
264 100
260 23.8 19.2 28.8
265 22.7 16.9 25.3

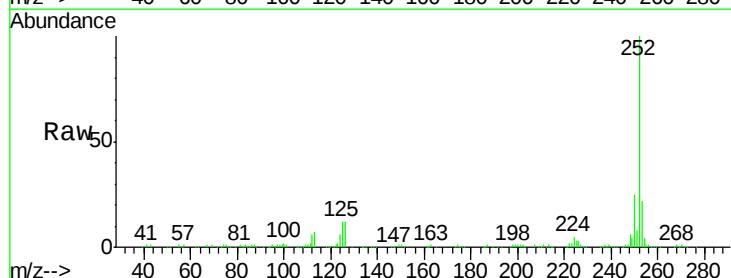


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

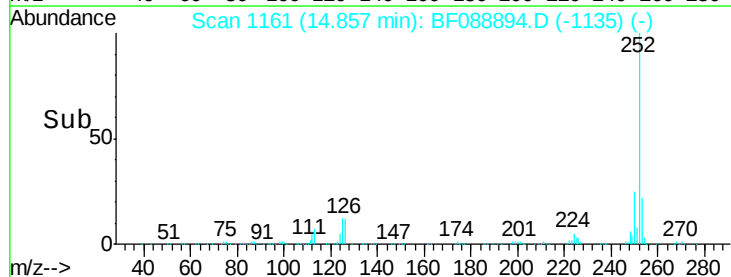
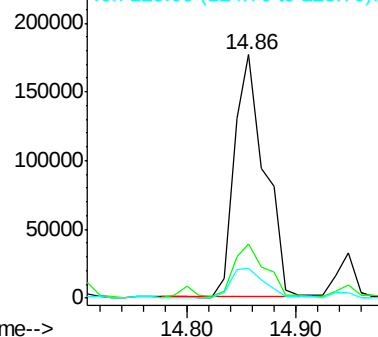


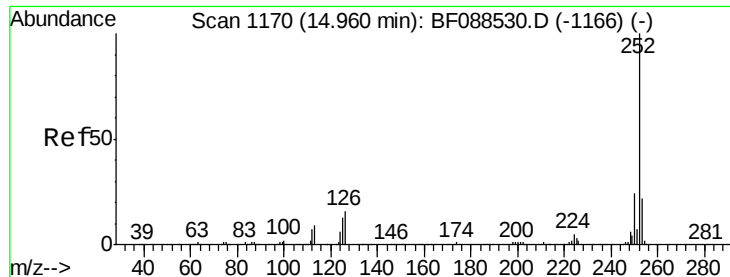
#87
Benzo(b)fluoranthene
Concen: 32.00 ng
RT: 14.86 min Scan# 1161
Delta R.T. 0.00 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Tgt Ion: 252 Resp: 343563
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.2
125 12.1 7.1 10.7#



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

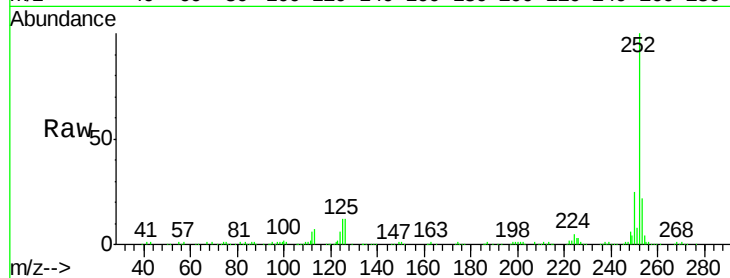




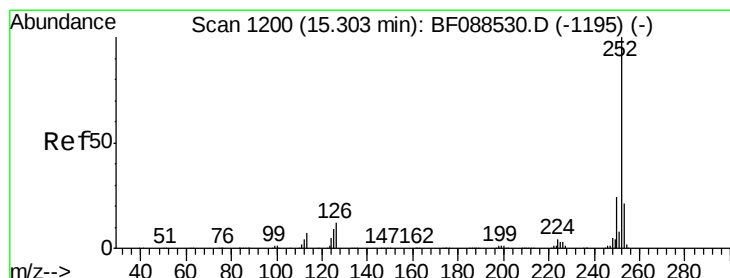
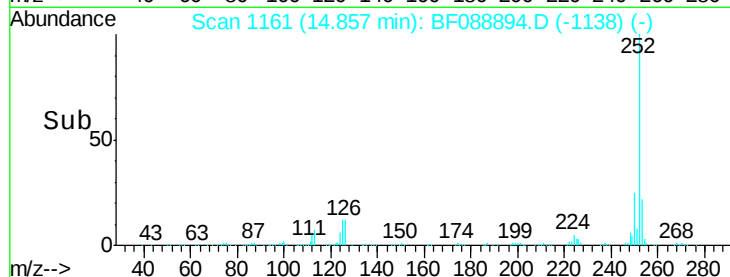
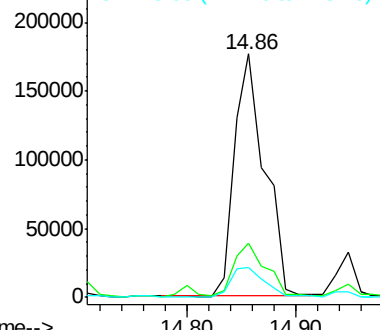
#88
Benzo(k)fluoranthene
Concen: 36.76 ng
RT: 14.86 min Scan# 1161
Delta R.T. -0.03 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Instrument :
BNA_F
ClientSampleId :
SS-2DL

Tgt Ion:252 Resp: 343509
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 12.1 11.2 16.8

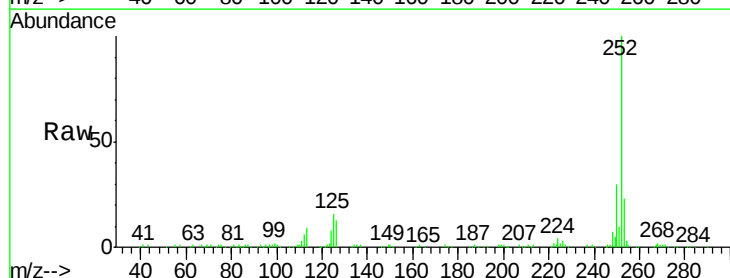


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

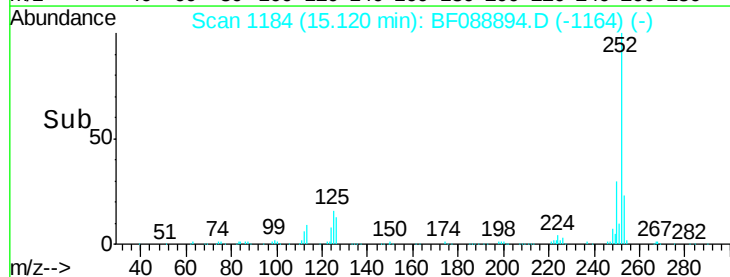
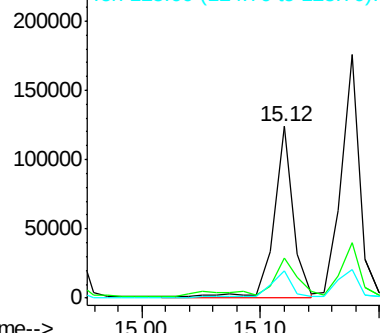


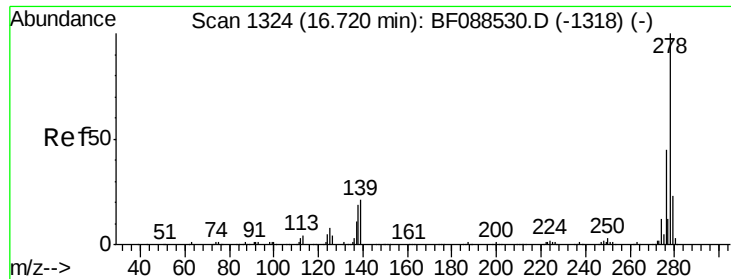
#89
Benzo(a)pyrene
Concen: 15.01 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.07 min
Lab File: BF088894.D
Acq: 10 Jul 2016 2:51

Tgt Ion:252 Resp: 136449
Ion Ratio Lower Upper
252 100
253 23.1 17.9 26.9
125 16.2 12.5 18.7



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.66 ng

RT: 16.54 min Scan# 1308

Delta R.T. -0.02 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

Instrument :

BNA_F

ClientSampleID :

SS-2DL

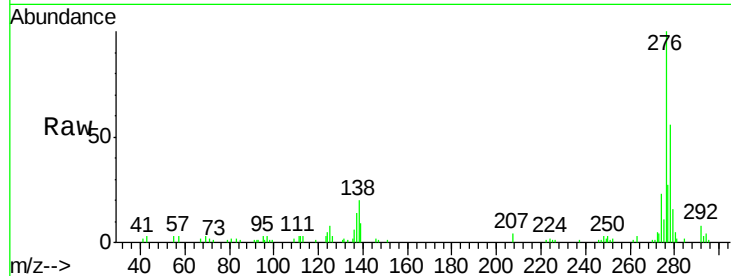
Tgt Ion: 278 Resp: 35364

Ion Ratio Lower Upper

278 100

139 15.3 15.7 23.5#

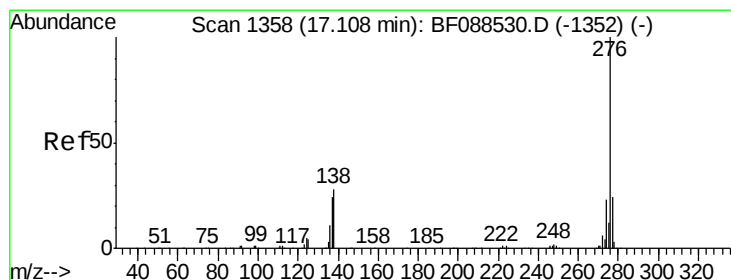
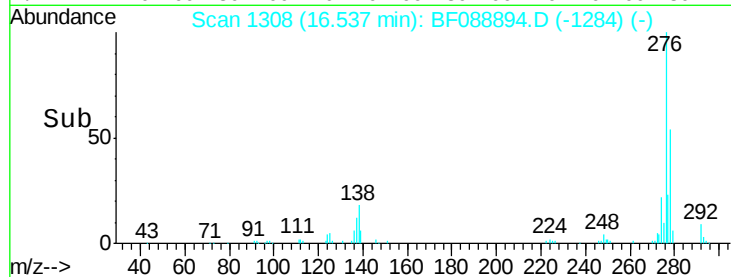
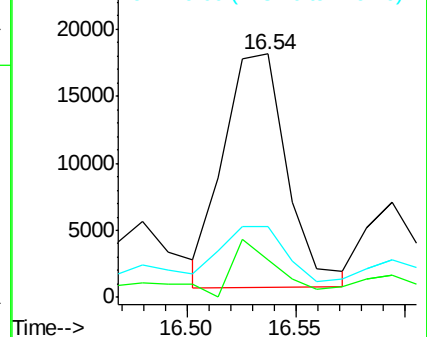
279 29.2 19.4 29.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 14.88 ng

RT: 16.91 min Scan# 1341

Delta R.T. -0.02 min

Lab File: BF088894.D

Acq: 10 Jul 2016 2:51

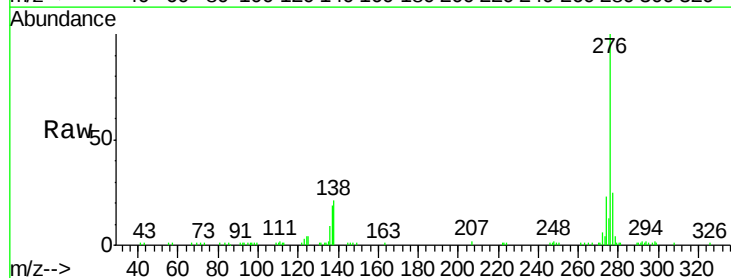
Tgt Ion: 276 Resp: 116861

Ion Ratio Lower Upper

276 100

277 24.7 18.9 28.3

138 21.0 21.4 32.2#



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

