

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
 Data File : BF088490.D
 Acq On : 28 Jun 2016 20:36
 Operator : UM/SJ
 Sample : H3663-07DL 50X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUPDL

Quant Time: Jun 29 01:29:00 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	7549	20.00	ng	0.14
21) Naphthalene-d8	7.80	136	411749	20.00	ng	-0.03
38) Acenaphthene-d10	9.55	164	178052	20.00	ng	-0.03
63) Phenanthrene-d10	11.03	188	304555	20.00	ng	-0.03
75) Chrysene-d12	13.66	240	179091	20.00	ng	-0.03
86) Perylene-d12	15.02	264	159739	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	4904	11.11	ng	0.08
7) Phenol-d6	6.24	99	12636	23.61	ng	0.01
23) Nitrobenzene-d5	7.16	82	5103	0.72	ng	0.03
41) 2,4,6-Tribromophenol	10.35	330	2171	1.15	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	20767	-3.96	ng	-0.03
78) Terphenyl-d14	12.62	244	15388	1.96	ng	-0.02

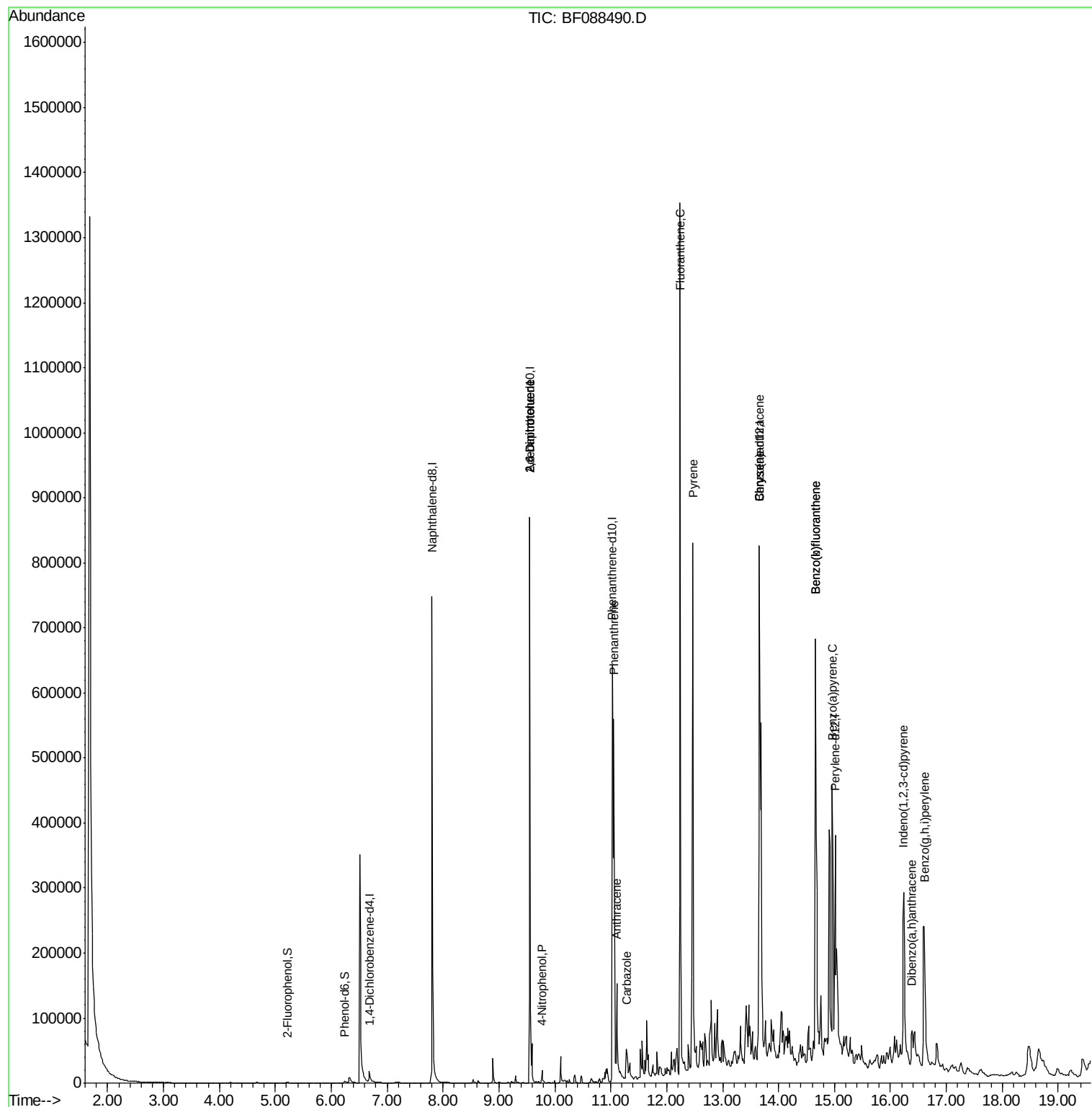
Target Compounds				Qvalue		
45) 1,1'-Biphenyl	9.00	154	1872	Below Cal		89
50) 2,6-Dinitrotoluene	9.55	165	22500	7.62 ng	#	38
55) 4-Nitrophenol	9.77	139	5691	2.15 ng	#	5
56) 2,4-Dinitrotoluene	9.55	165	22501	5.93 ng	#	37
57) Fluorene	10.10	166	18639	Below Cal		97
70) Phenanthrene	11.05	178	274954	17.20 ng		98
71) Anthracene	11.11	178	88483	5.49 ng		98
72) Carbazole	11.28	167	40036	2.65 ng		99
74) Fluoranthene	12.24	202	575856	34.14 ng		99
77) Pyrene	12.47	202	465923	35.06 ng		99
80) Benzo(a)anthracene	13.66	228	326150	31.96 ng		99
82) Chrysene	13.66	228	326150	33.97 ng		95
85) Indeno(1,2,3-cd)pyrene	16.24	276	198467	22.25 ng	#	100
87) Benzo(b)fluoranthene	14.66	252	486726	43.72 ng	#	96
88) Benzo(k)fluoranthene	14.66	252	486726	57.95 ng		97
89) Benzo(a)pyrene	14.96	252	236779	26.29 ng		98
90) Dibenzo(a,h)anthracene	16.39	278	33719	4.03 ng		95
91) Benzo(g,h,i)perylene	16.61	276	198538	23.07 ng		97

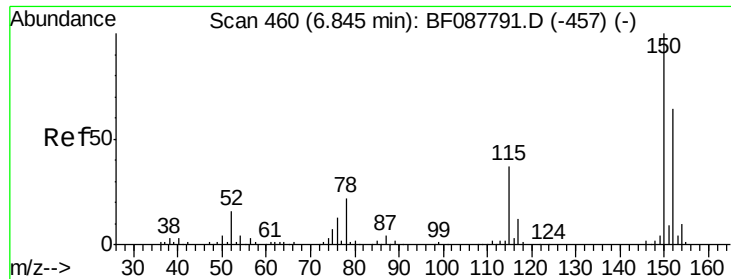
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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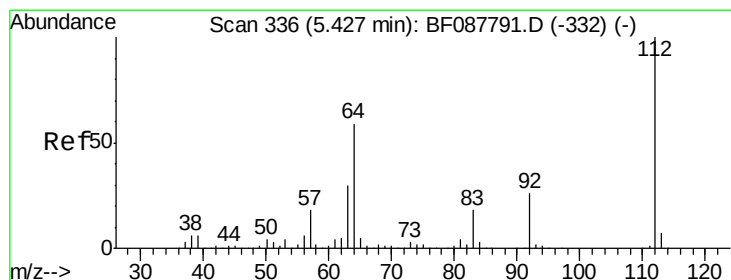
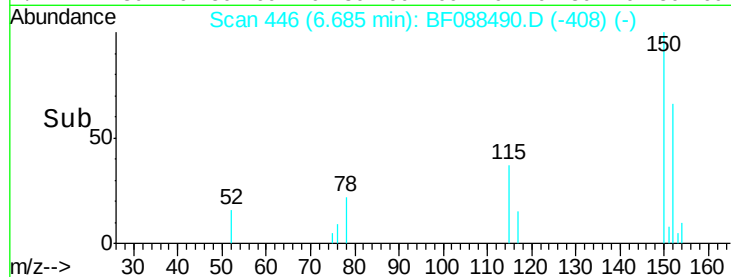
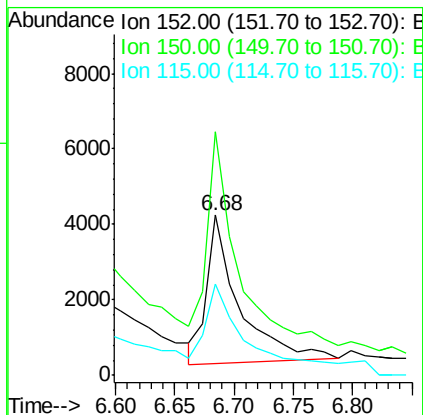
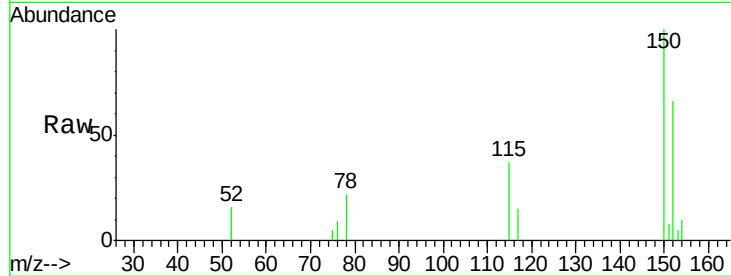


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.68 min Scan# 446
Delta R.T. 0.14 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUPDL

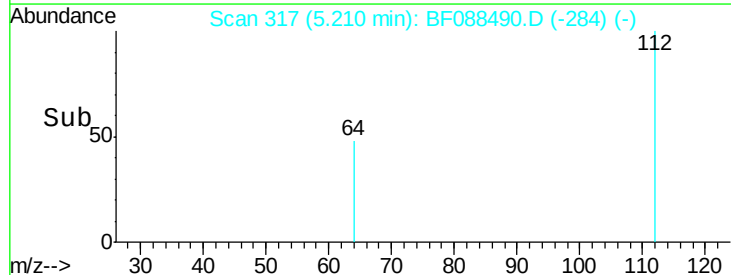
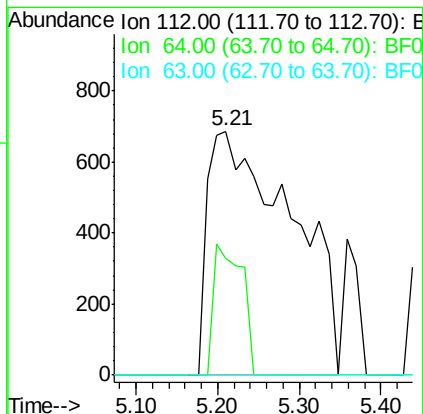
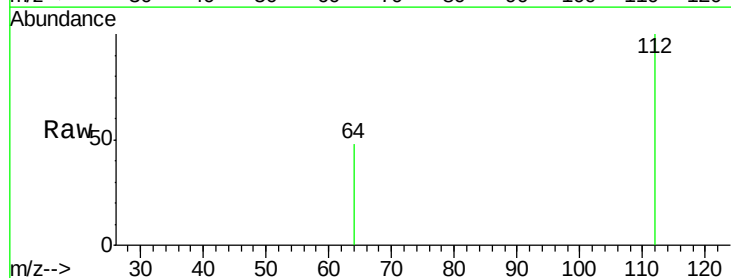
Tgt Ion:152 Resp: 7549
Ion Ratio Lower Upper
152 100
150 151.9 123.8 185.6
115 56.8 39.6 59.4

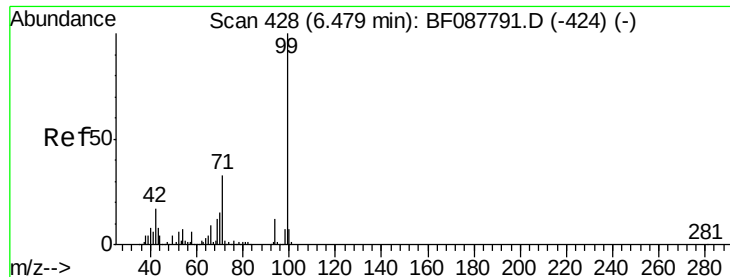


#5

2-Fluorophenol
Concen: 11.11 ng
RT: 5.21 min Scan# 317
Delta R.T. 0.08 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Tgt Ion:112 Resp: 4904
Ion Ratio Lower Upper
112 100
64 47.8 42.2 63.2
63 0.0 21.8 32.8#





#7

Phenol-d6

Concen: 23.61 ng

RT: 6.24 min Scan# 407

Delta R.T. 0.01 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

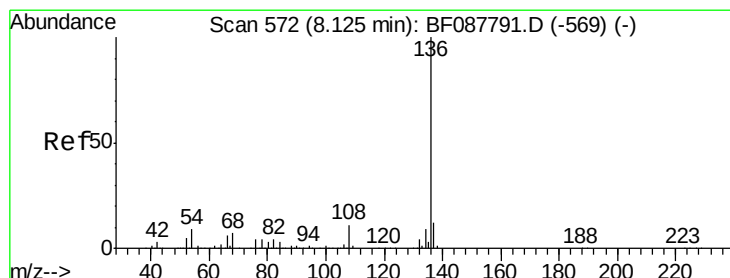
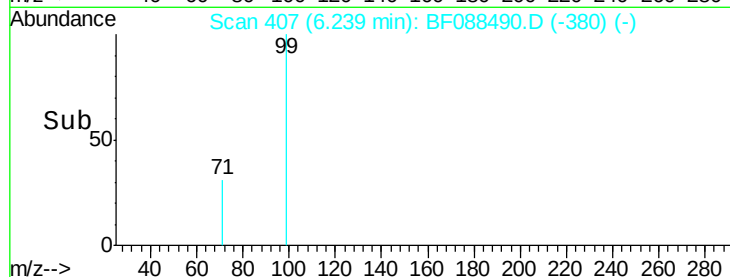
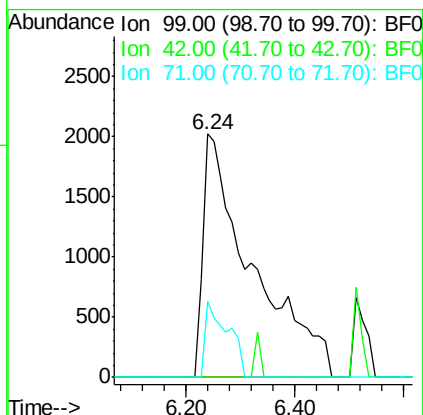
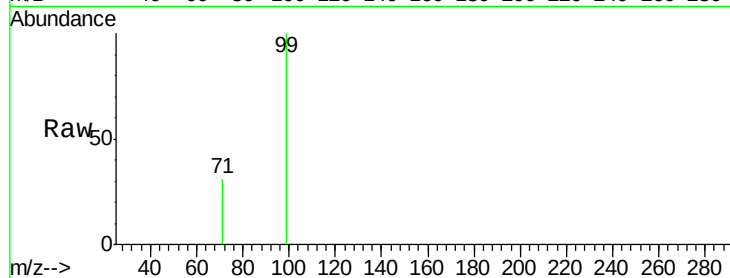
Tgt Ion: 99 Resp: 12636

Ion Ratio Lower Upper

99 100

42 0.0 12.2 18.2#

71 31.4 23.4 35.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.03 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Tgt Ion: 136 Resp: 411749

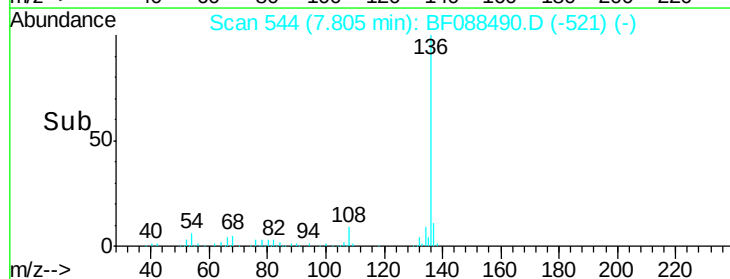
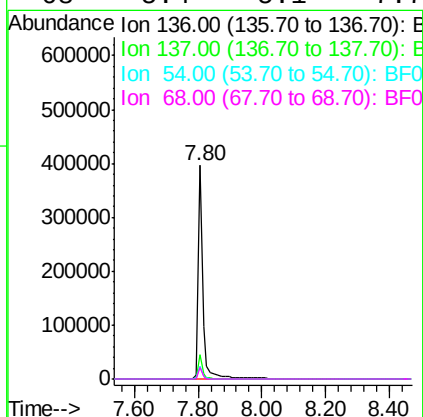
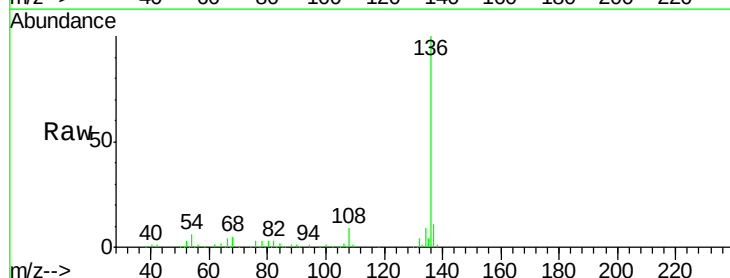
Ion Ratio Lower Upper

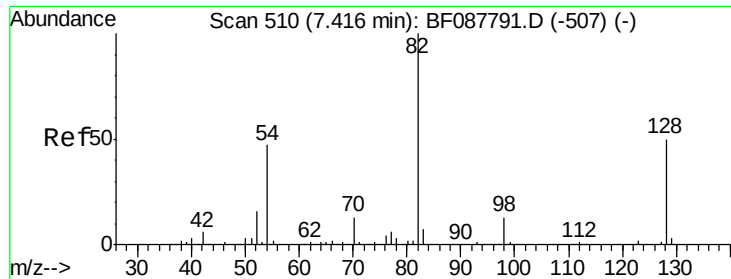
136 100

137 11.2 9.1 13.7

54 6.2 6.6 10.0#

68 5.4 5.1 7.7





#23

Nitrobenzene-d5

Concen: 0.72 ng

RT: 7.16 min Scan# 488

Delta R.T. 0.03 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

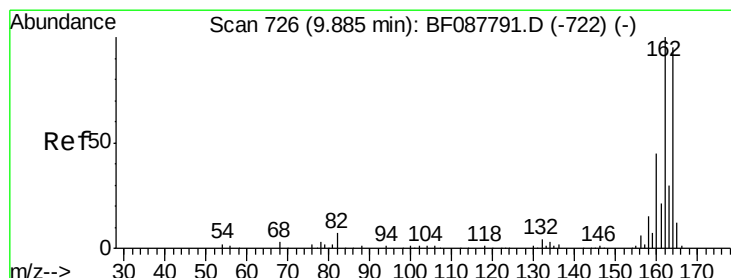
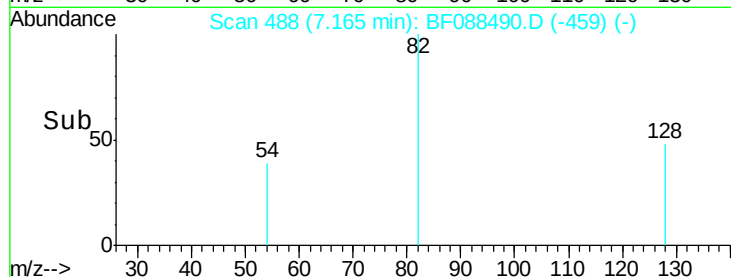
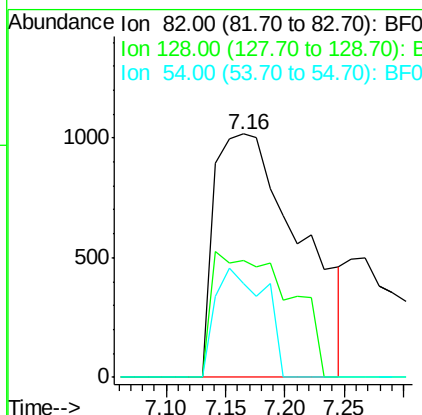
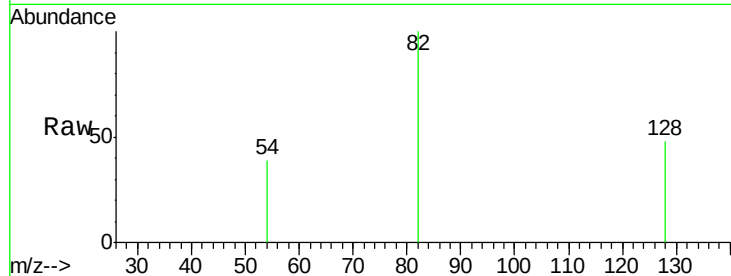
Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

Tgt Ion:	82	Resp:	5103
Ion	Ratio	Lower	Upper
82	100		
128	48.0	35.9	53.9
54	38.6	40.9	61.3#



#38

Acenaphthene-d10

Concen: 20.00 ng

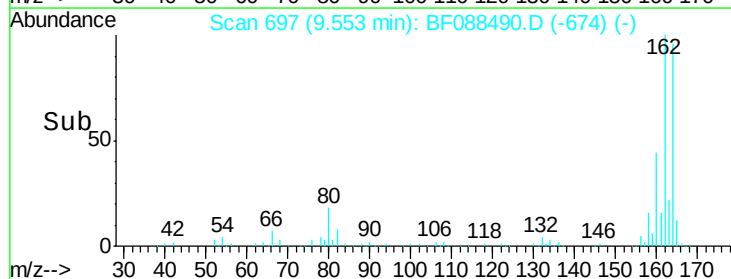
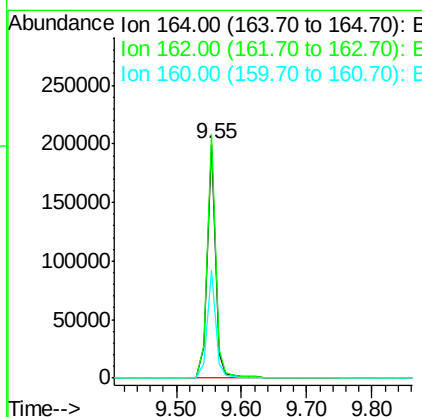
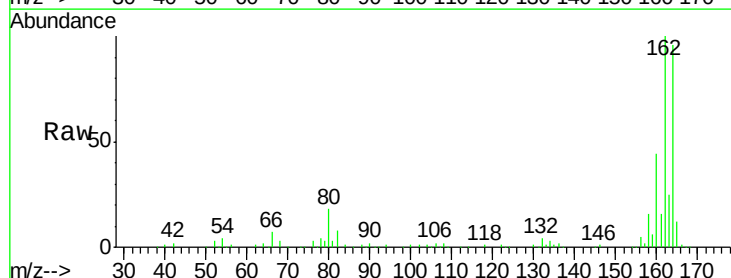
RT: 9.55 min Scan# 697

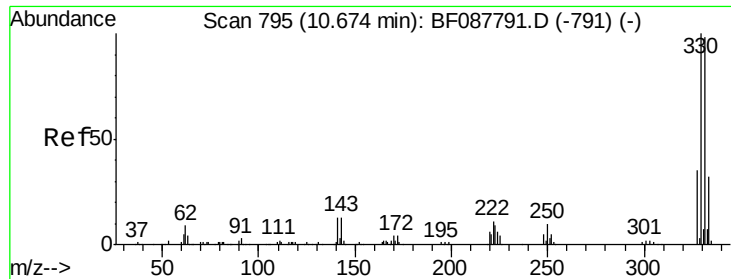
Delta R.T. -0.03 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Tgt Ion:	164	Resp:	178052
Ion	Ratio	Lower	Upper
164	100		
162	104.1	85.4	128.2
160	45.9	39.5	59.3

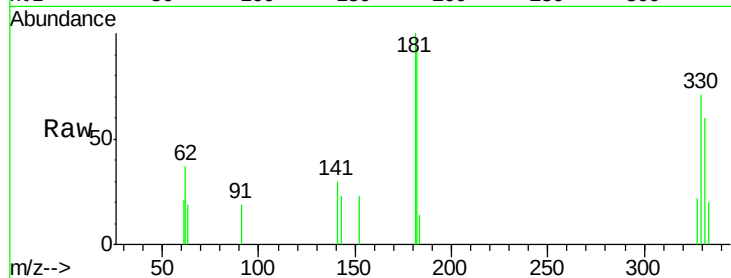




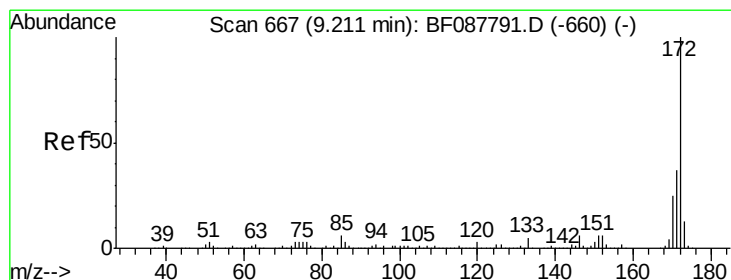
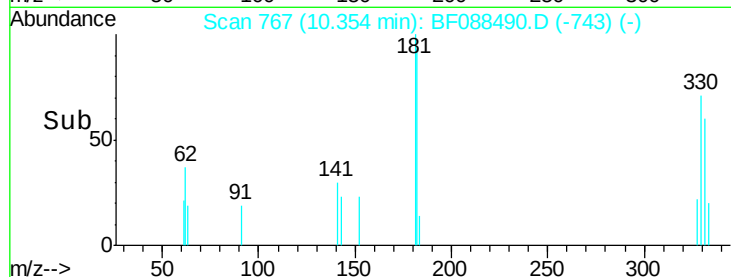
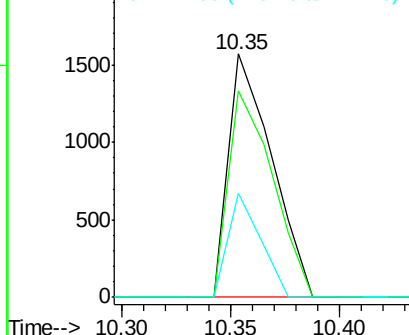
#41
 2,4,6-Tribromophenol
 Concen: 1.15 ng
 RT: 10.35 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUPDL

Tgt Ion: 330 Resp: 2171
 Ion Ratio Lower Upper
 330 100
 332 86.3 0.0 0.0#
 141 31.7 0.0 0.0#

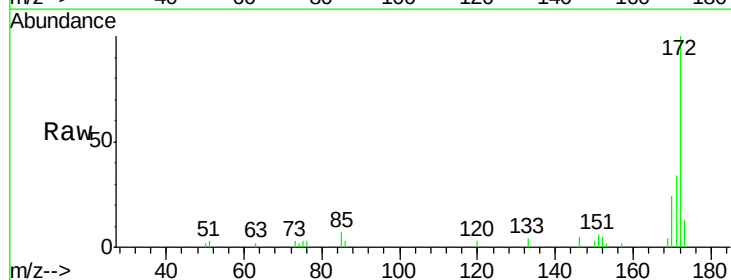


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

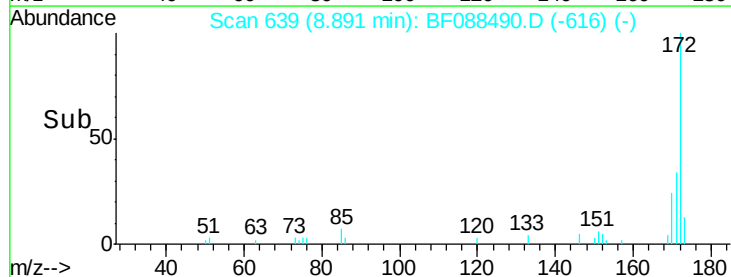
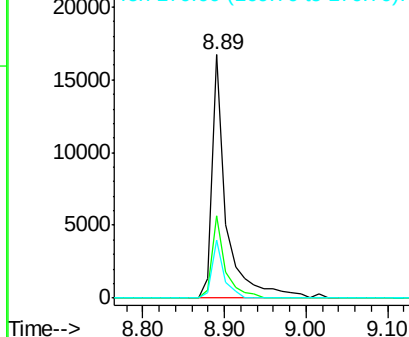


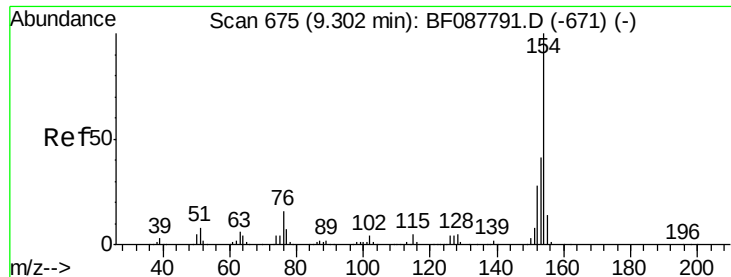
#44
 2-Fluorobiphenyl
 Concen: -3.96 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

Tgt Ion: 172 Resp: 20767
 Ion Ratio Lower Upper
 172 100
 171 33.7 28.6 43.0
 170 24.0 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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.00 min Scan# 649

Delta R.T. -0.01 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

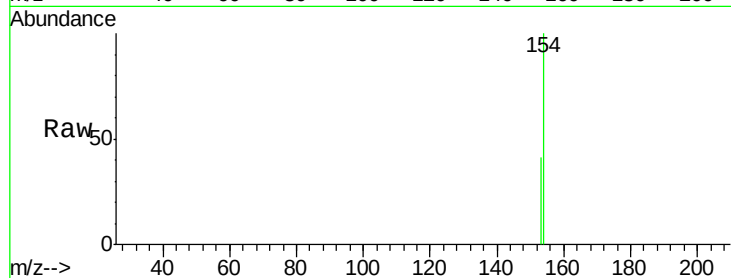
Tgt Ion:154 Resp: 1872

Ion Ratio Lower Upper

154 100

153 41.3 20.6 60.6

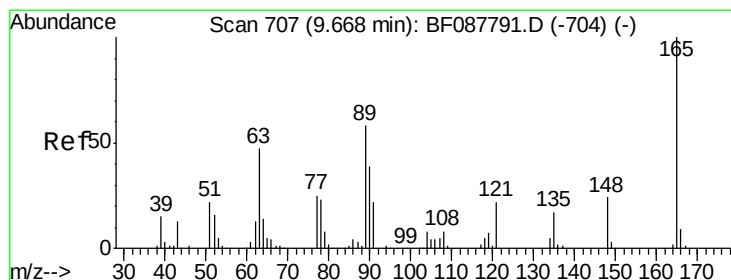
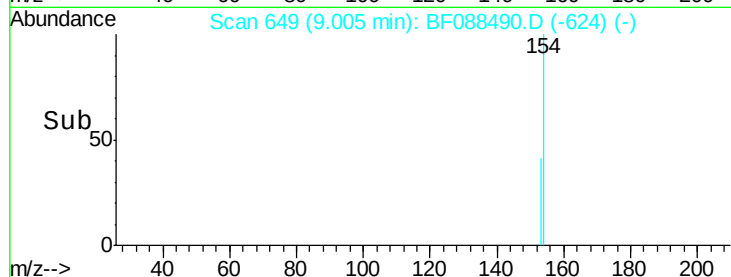
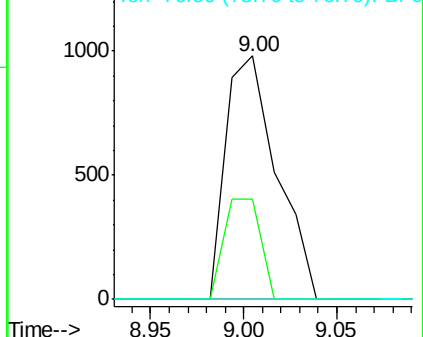
76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.62 ng

RT: 9.55 min Scan# 697

Delta R.T. 0.16 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

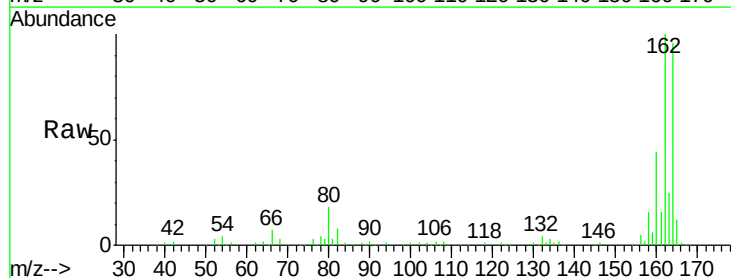
Tgt Ion:165 Resp: 22500

Ion Ratio Lower Upper

165 100

63 0.0 28.1 42.1#

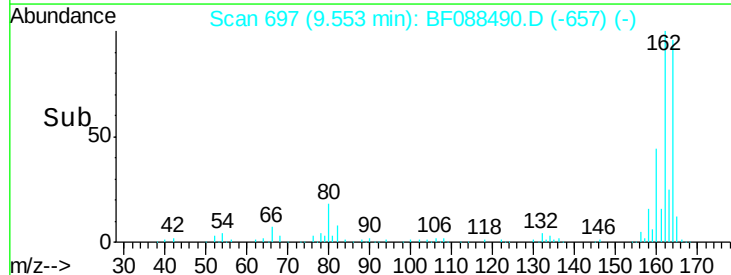
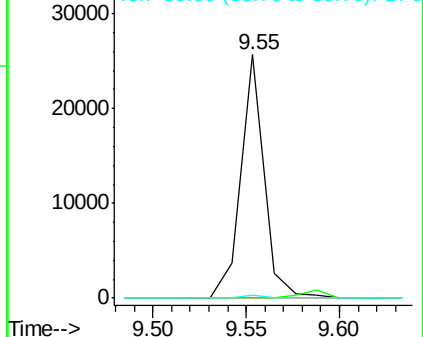
89 1.3 32.2 48.2#

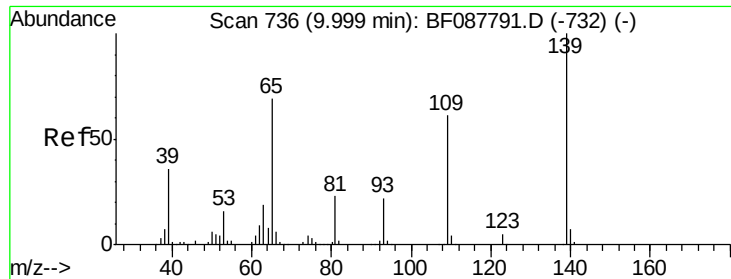


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

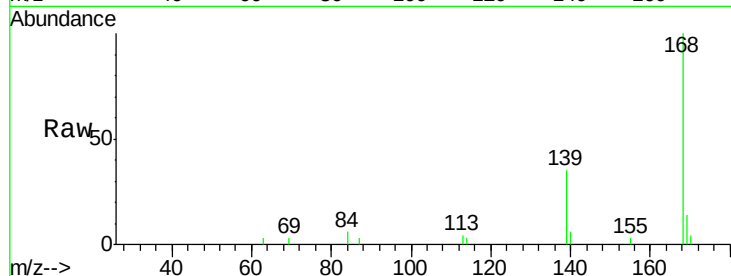




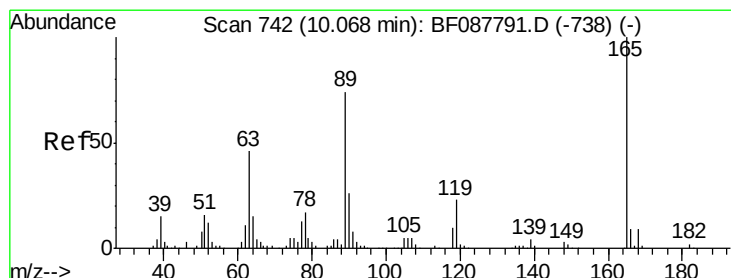
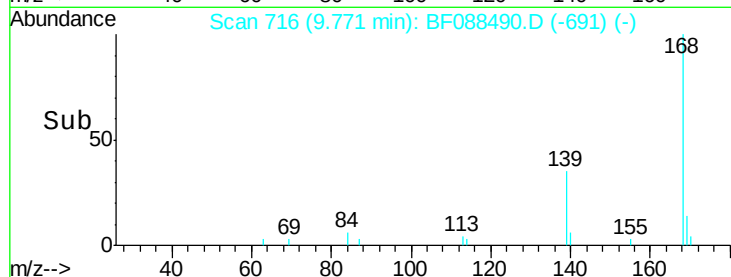
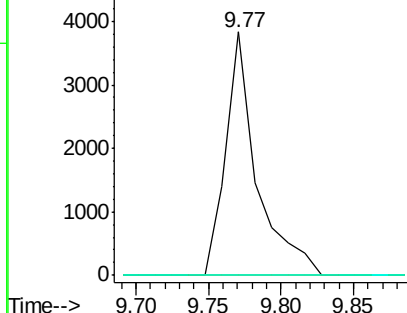
#55
4-Nitrophenol
Concen: 2.15 ng
RT: 9.77 min Scan# 716
Delta R.T. -0.01 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Instrument :
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SUBSURFACEDUPDL

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.9	88.9#
65	0.0	84.9	124.9#



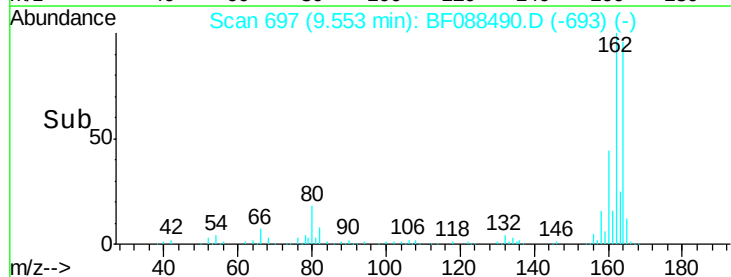
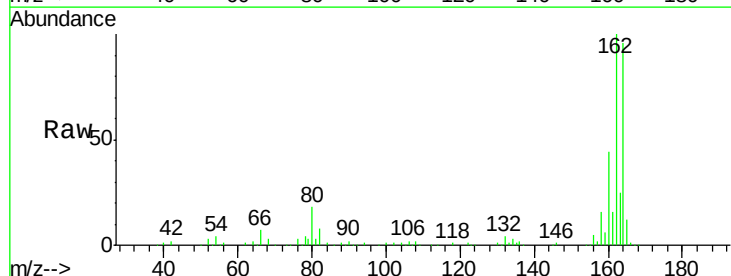
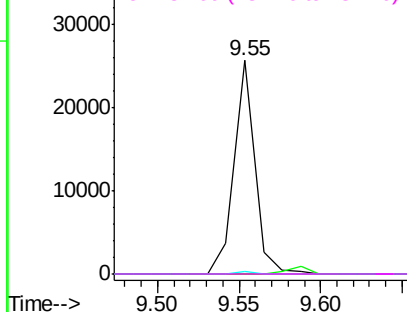
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

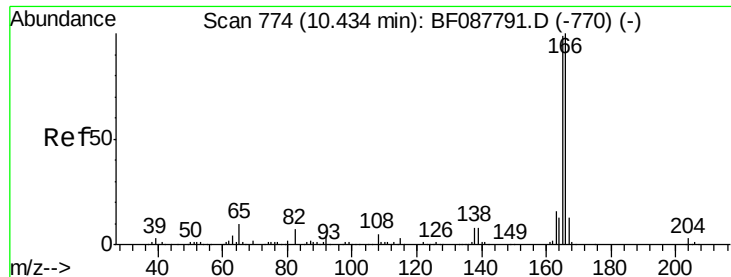


#56
2,4-Dinitrotoluene
Concen: 5.93 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.25 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	1.3	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

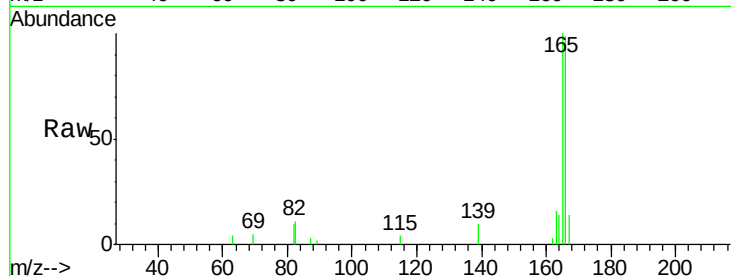




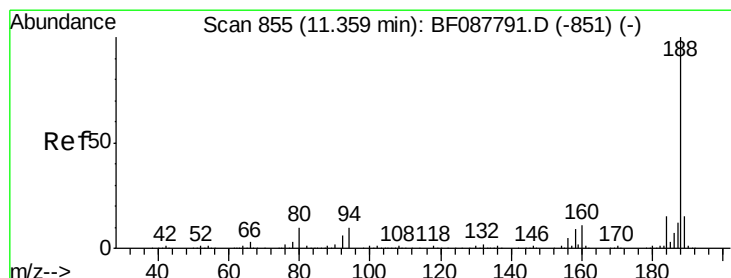
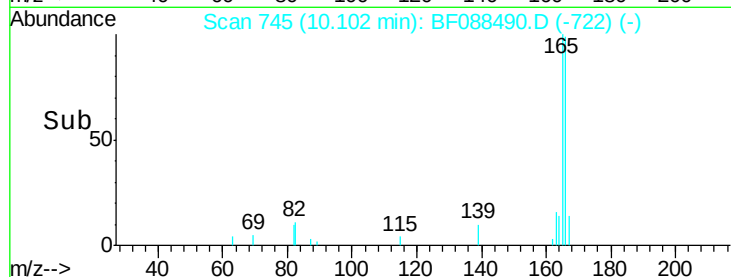
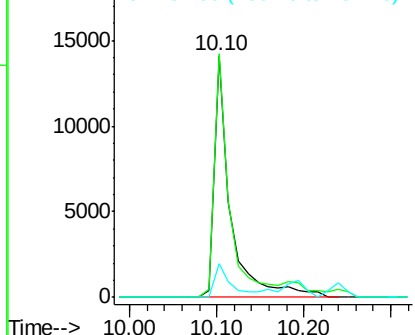
#57
 Fluorene
 Concen: Below Cal
 RT: 10.10 min Scan# 745
 Delta R.T. -0.03 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUPDL

Tgt Ion:166 Resp: 18639
 Ion Ratio Lower Upper
 166 100
 165 100.9 77.8 116.8
 167 13.8 11.2 16.8

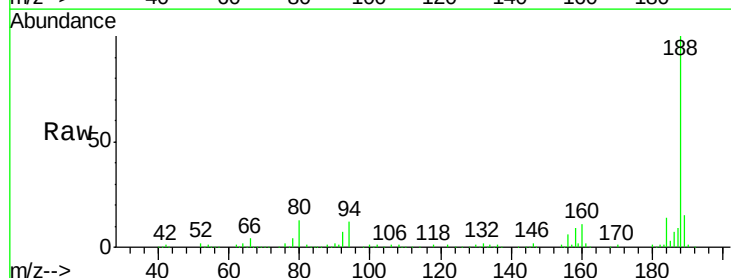


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

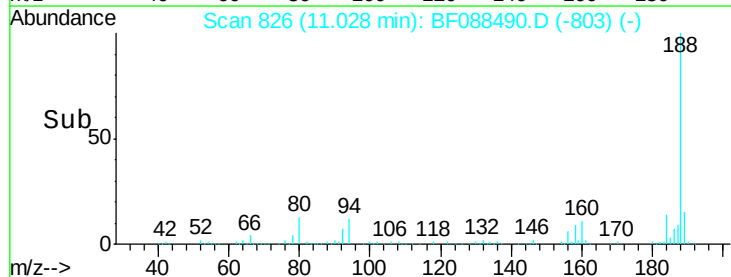
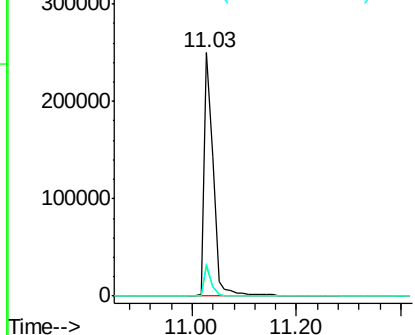


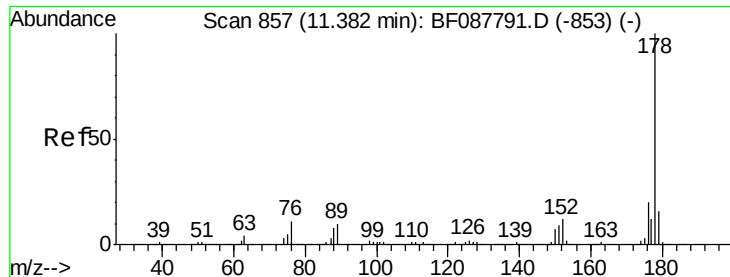
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.03 min Scan# 826
 Delta R.T. -0.03 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

Tgt Ion:188 Resp: 304555
 Ion Ratio Lower Upper
 188 100
 94 12.3 9.0 13.6
 80 13.1 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

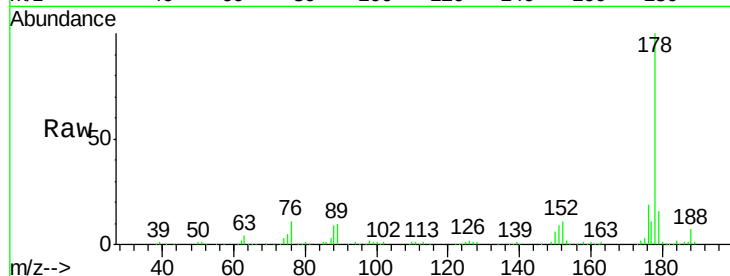




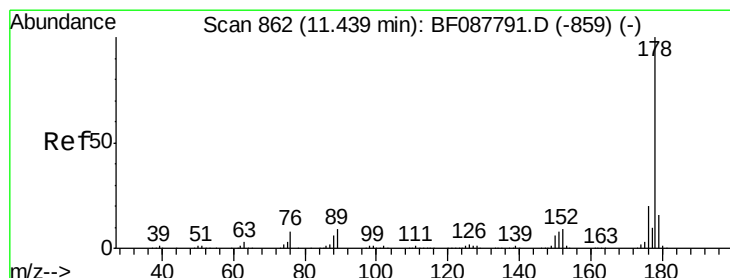
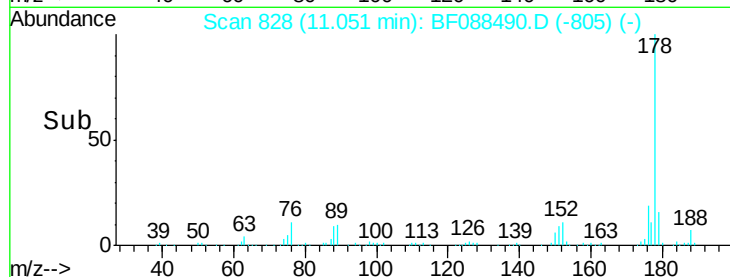
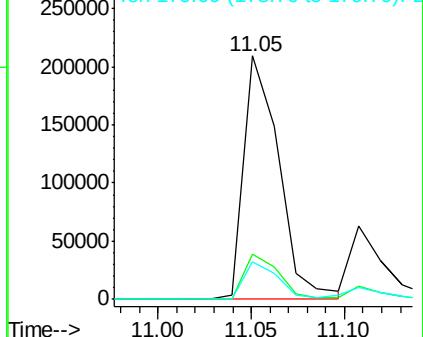
#70
Phenanthrene
Concen: 17.20 ng
RT: 11.05 min Scan# 828
Delta R.T. -0.03 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUPDL

Tgt Ion:178 Resp: 274954
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 15.5 13.0 19.4

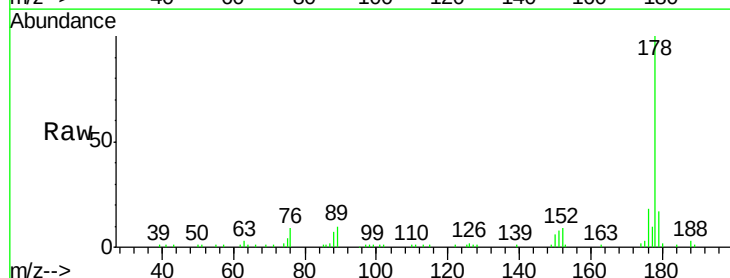


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

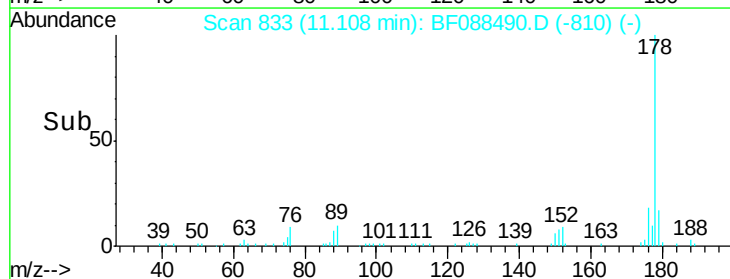
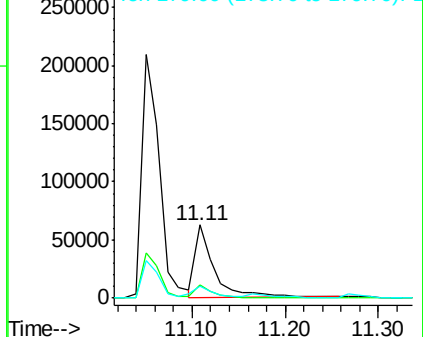


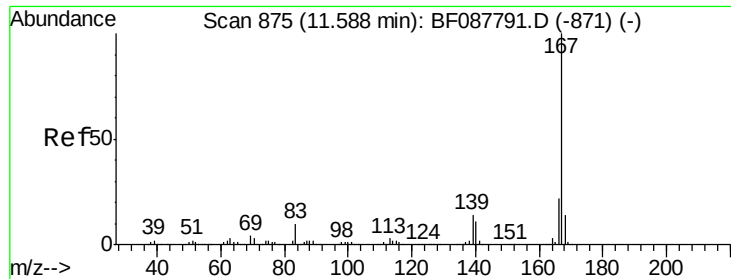
#71
Anthracene
Concen: 5.49 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.03 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Tgt Ion:178 Resp: 88483
Ion Ratio Lower Upper
178 100
176 18.3 15.6 23.4
179 16.9 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

Carbazole

Concen: 2.65 ng

RT: 11.28 min Scan# 848

Delta R.T. -0.02 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

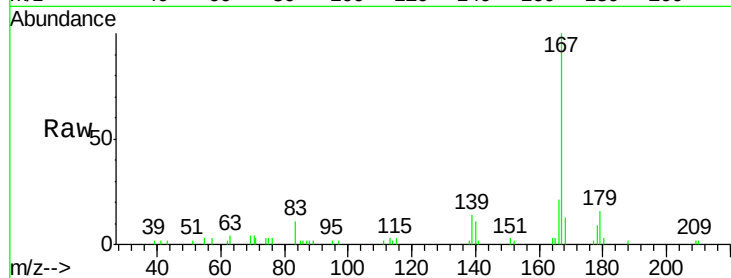
Tgt Ion:167 Resp: 40036

Ion Ratio Lower Upper

167 100

166 21.4 17.8 26.6

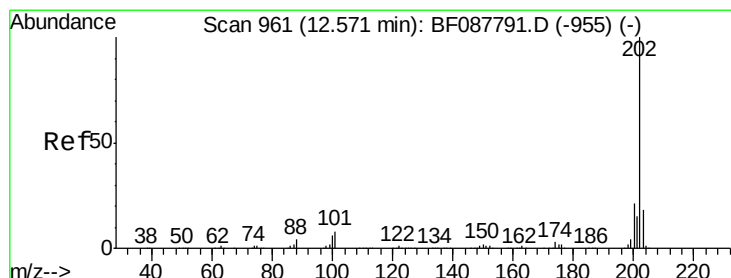
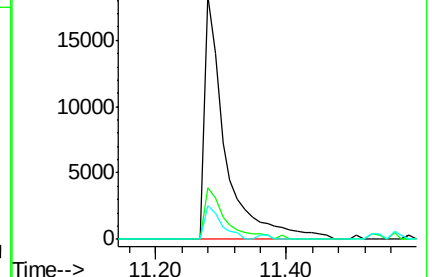
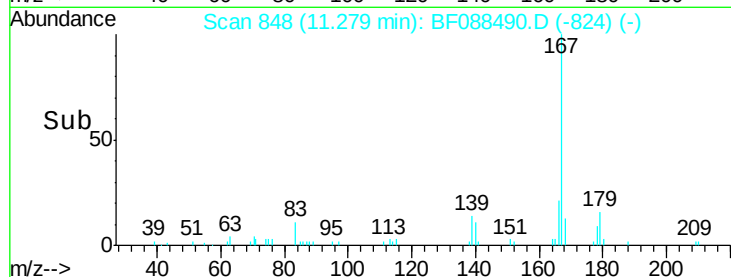
139 14.0 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 34.14 ng

RT: 12.24 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

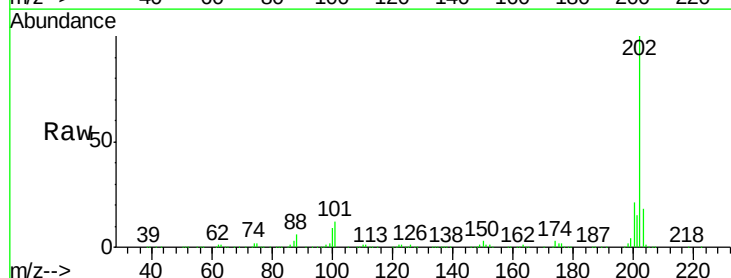
Tgt Ion:202 Resp: 575856

Ion Ratio Lower Upper

202 100

101 12.2 0.0 33.1

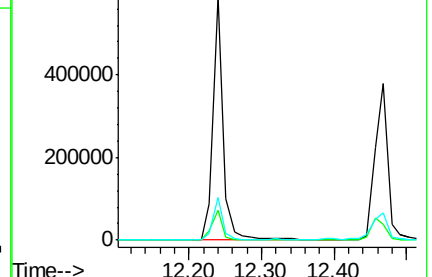
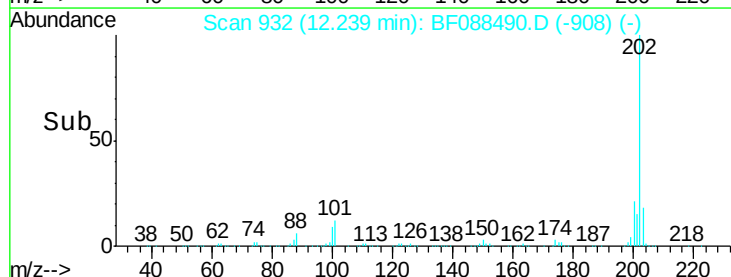
203 17.7 0.0 38.1

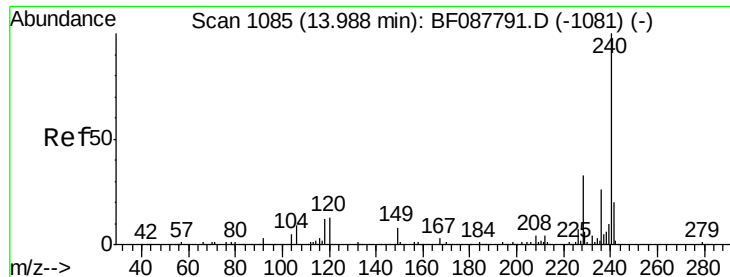


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.66 min Scan# 1056

Delta R.T. -0.03 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

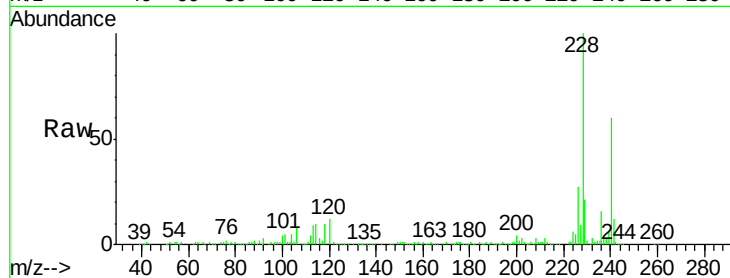
Tgt Ion:240 Resp: 179091

Ion Ratio Lower Upper

240 100

120 19.2 6.8 10.2#

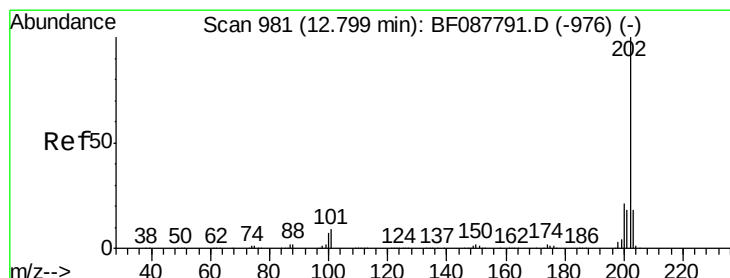
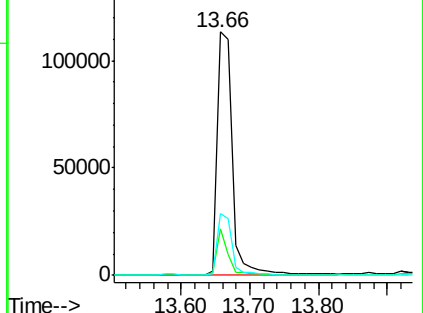
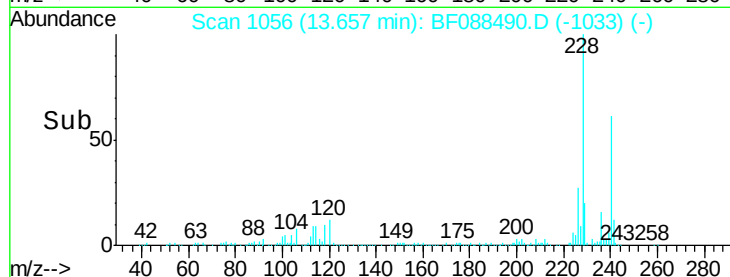
236 25.6 20.2 30.2



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: 35.06 ng

RT: 12.47 min Scan# 952

Delta R.T. -0.02 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

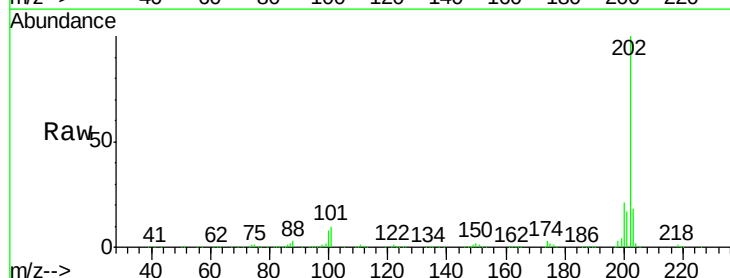
Tgt Ion:202 Resp: 465923

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

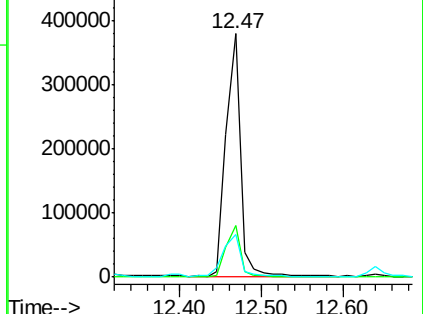
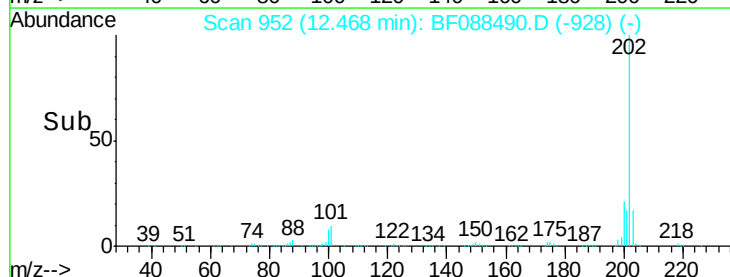
203 17.7 14.5 21.7

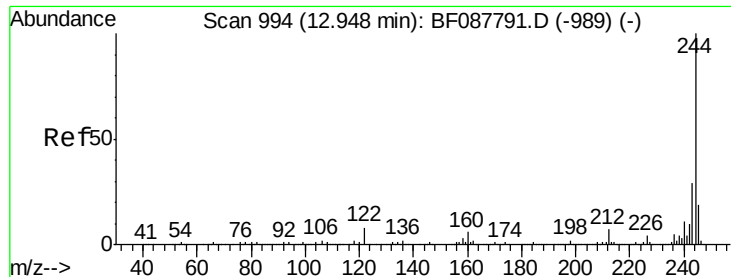


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

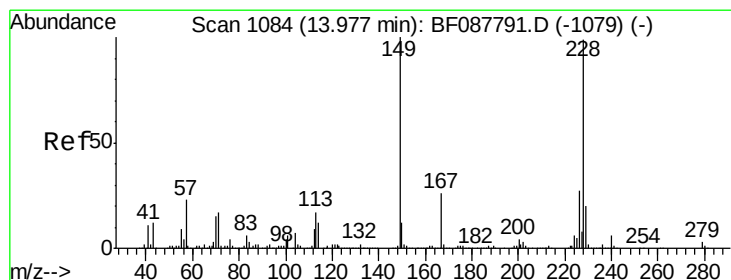
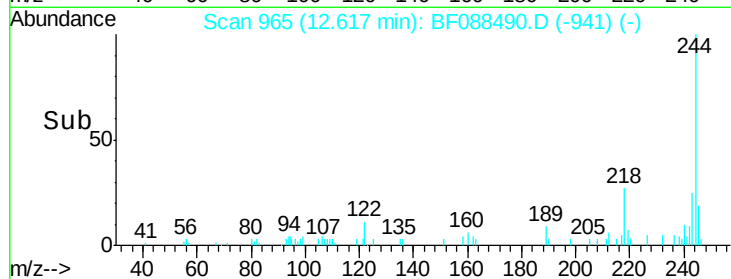
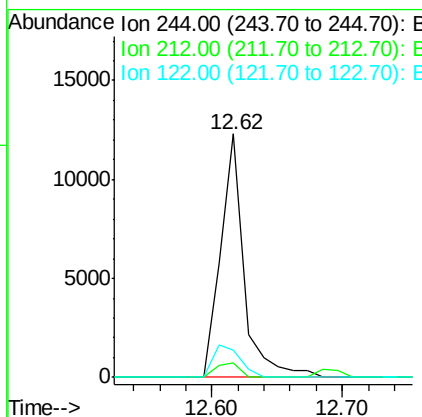
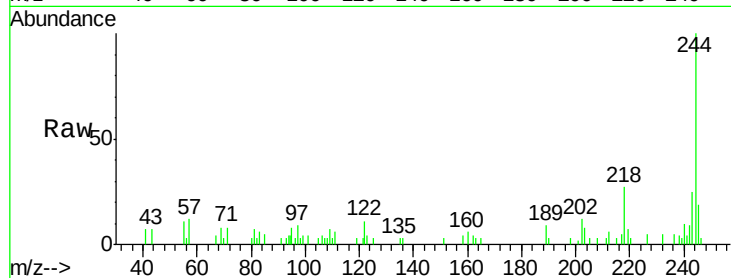




#78
 Terphenyl-d14
 Concen: 1.96 ng
 RT: 12.62 min Scan# 965
 Delta R.T. -0.02 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

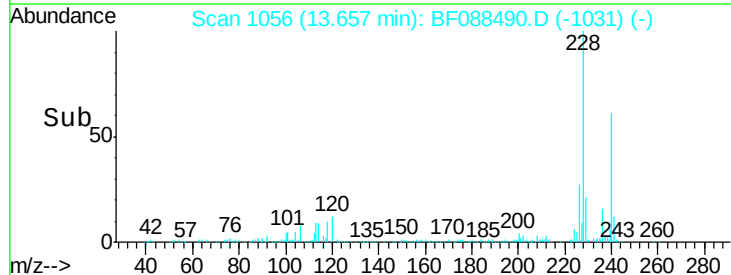
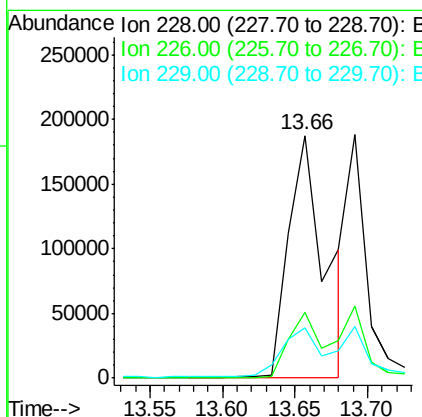
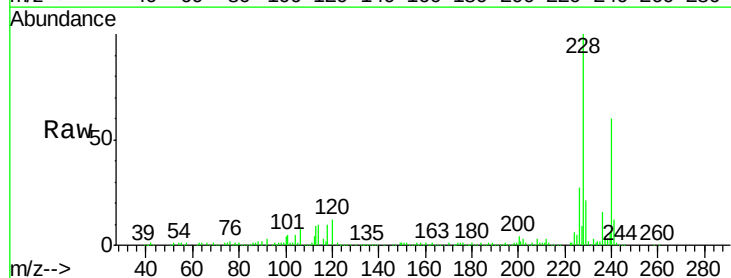
Instrument :
 BNA_F
 ClientSampleId :
 SUBSURFACEDUPDL

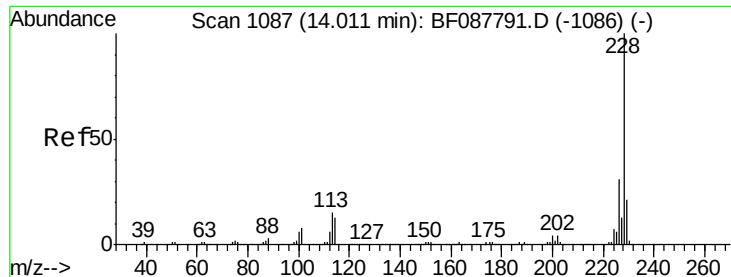
Tgt Ion:244 Resp: 15388
 Ion Ratio Lower Upper
 244 100
 212 6.0 6.0 9.0
 122 11.3 11.2 16.8



#80
 Benzo(a)anthracene
 Concen: 31.96 ng
 RT: 13.66 min Scan# 1056
 Delta R.T. -0.01 min
 Lab File: BF088490.D
 Acq: 28 Jun 2016 20:36

Tgt Ion:228 Resp: 326150
 Ion Ratio Lower Upper
 228 100
 226 27.4 22.3 33.5
 229 20.8 16.0 24.0





#82

Chrysene

Concen: 33.97 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.06 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

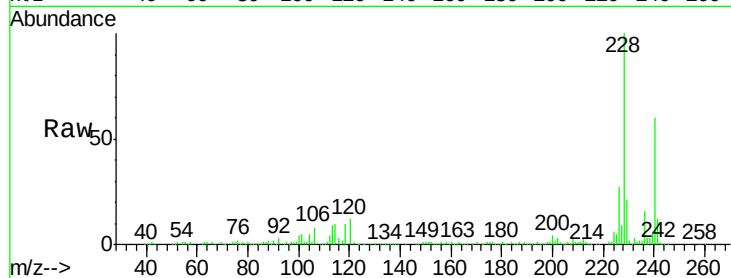
Tgt Ion:228 Resp: 326150

Ion Ratio Lower Upper

228 100

226 27.4 25.4 38.2

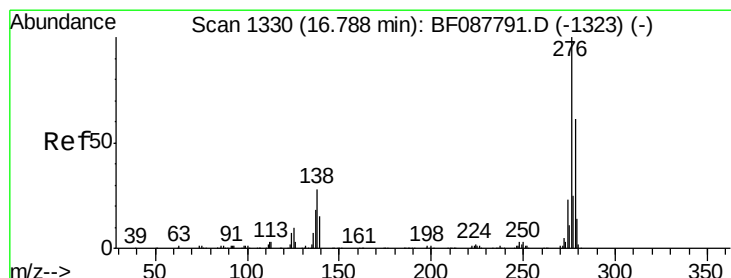
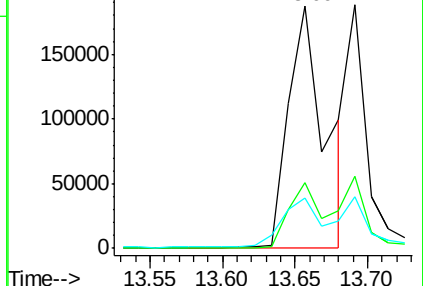
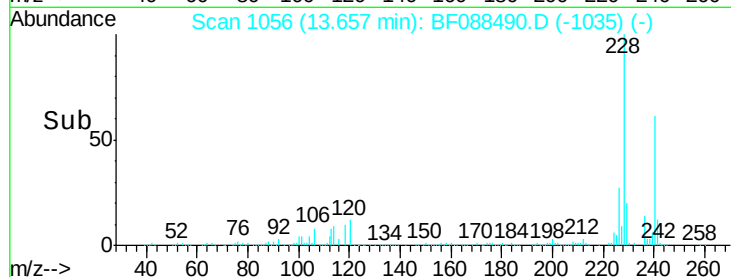
229 20.8 16.3 24.5



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: 22.25 ng

RT: 16.24 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

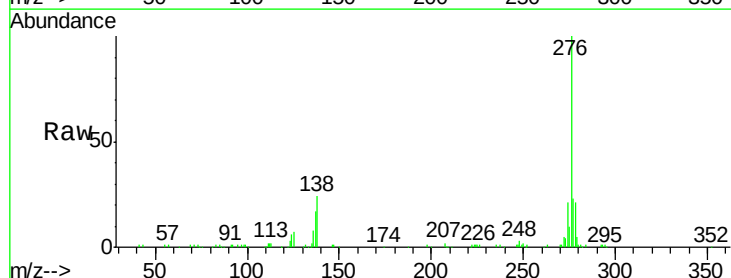
Tgt Ion:276 Resp: 198467

Ion Ratio Lower Upper

276 100

138 26.1 0.0 0.0#

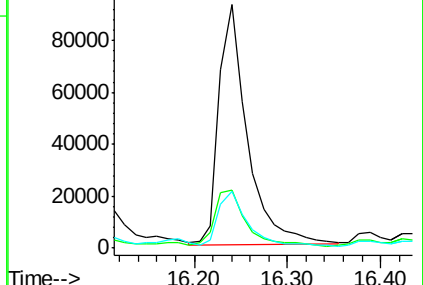
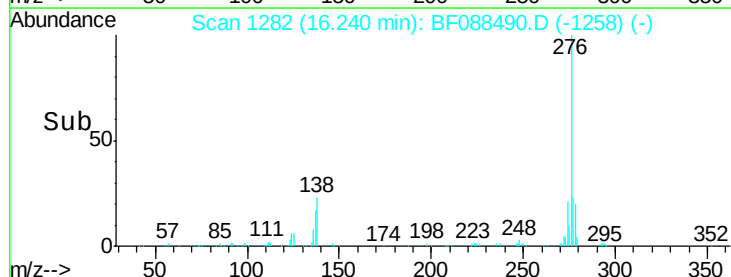
277 22.6 0.0 0.0#

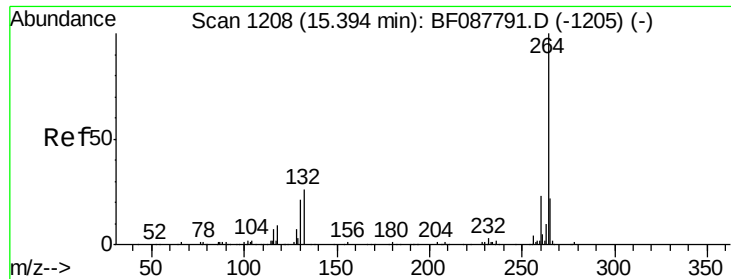


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

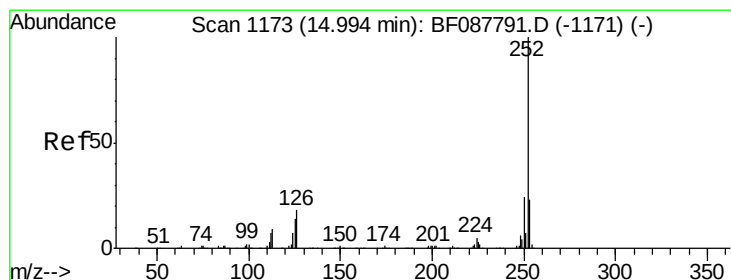
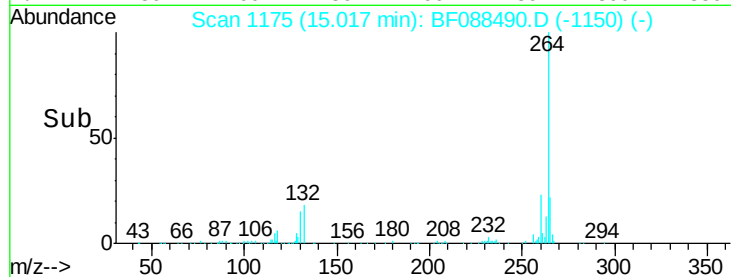
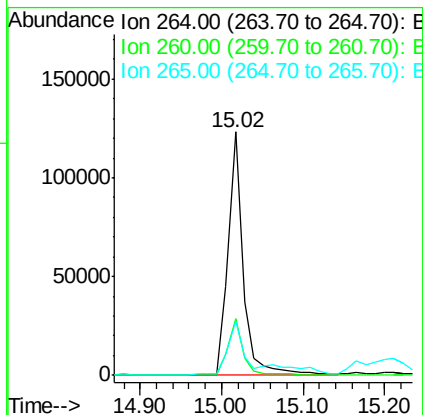
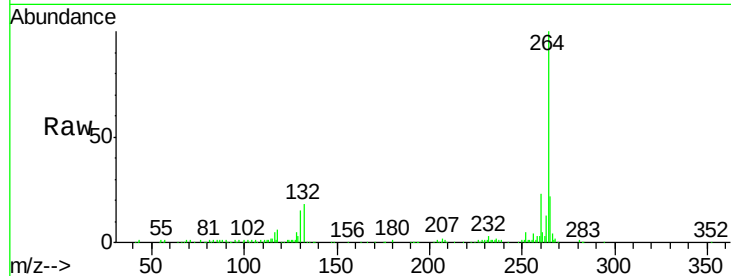




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.02 min Scan# 1175
Delta R.T. -0.01 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

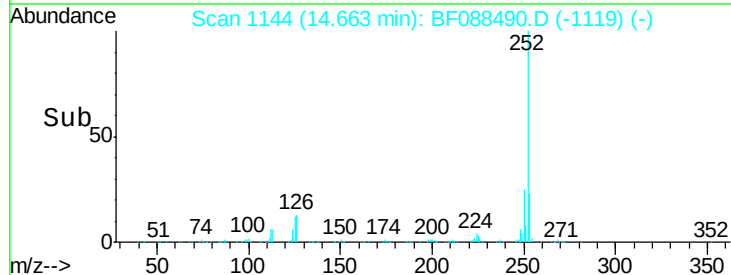
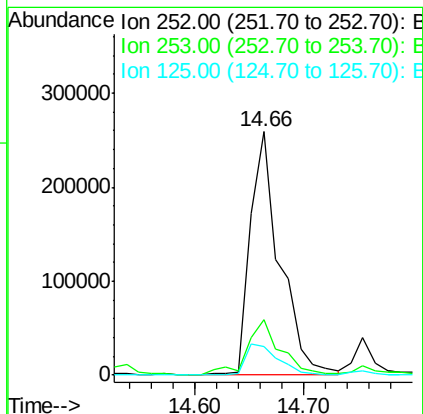
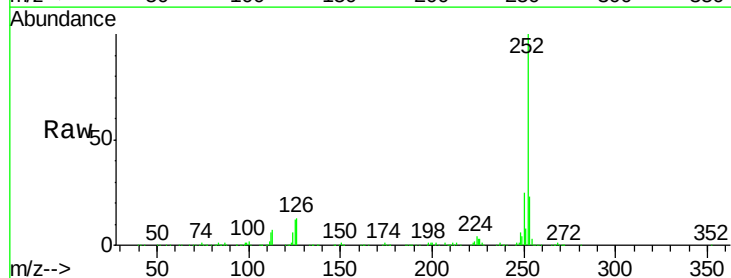
Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUPDL

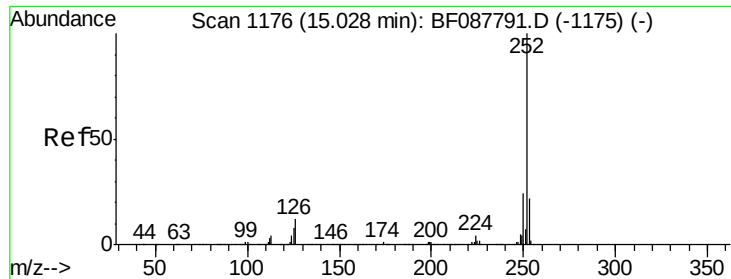
Tgt Ion:264 Resp: 159739
Ion Ratio Lower Upper
264 100
260 23.1 19.2 28.8
265 22.5 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 43.72 ng
RT: 14.66 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Tgt Ion:252 Resp: 486726
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 11.8 7.1 10.7#

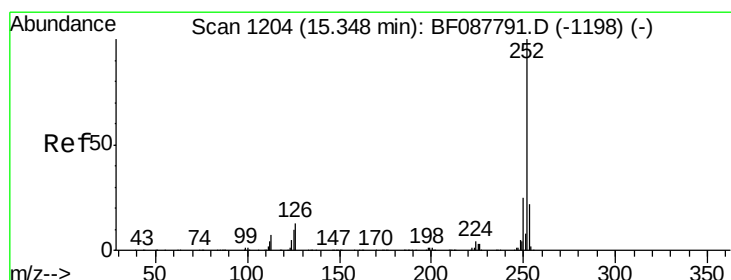
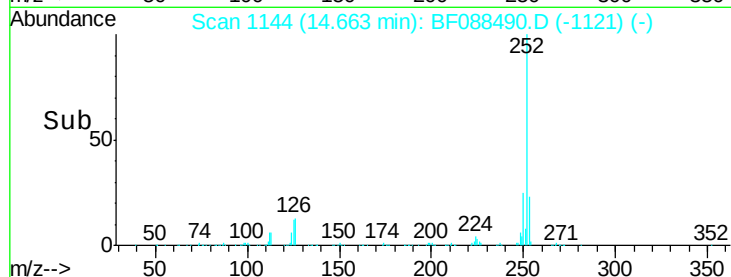
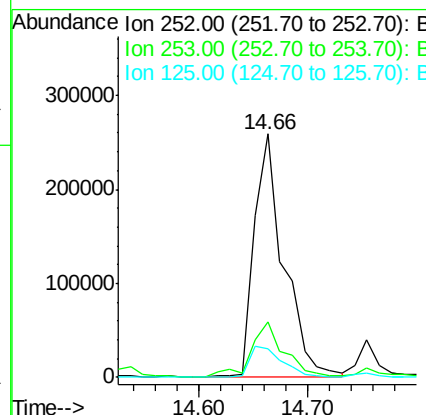
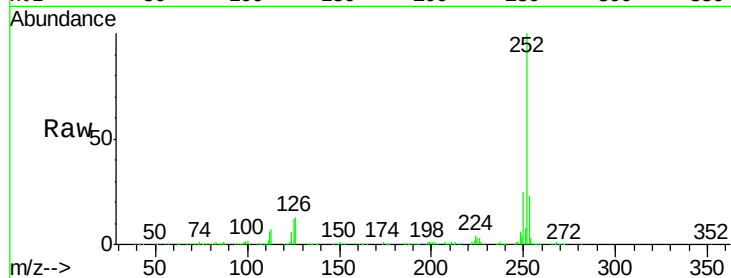




#88
Benzo(k)fluoranthene
Concen: 57.95 ng
RT: 14.66 min Scan# 1144
Delta R.T. -0.03 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

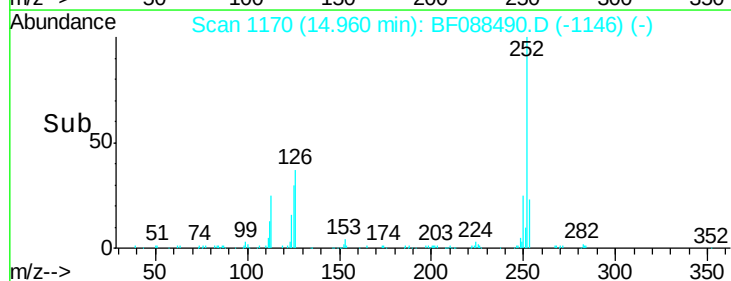
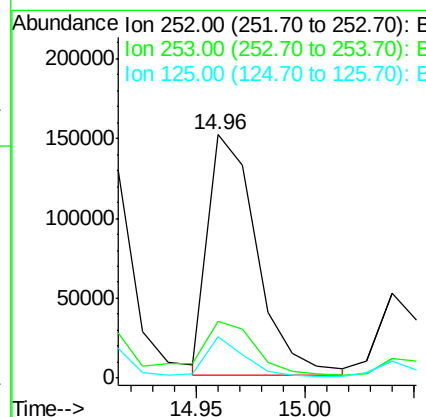
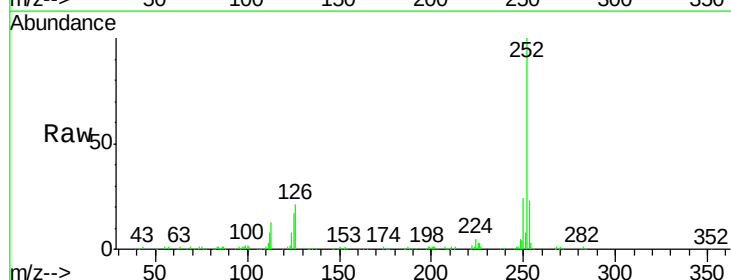
Instrument :
BNA_F
ClientSampleId :
SUBSURFACEDUPDL

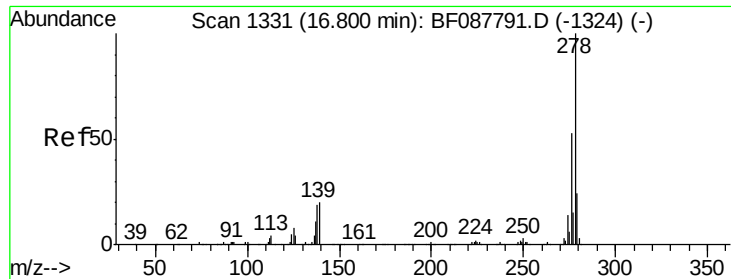
Tgt Ion:252 Resp: 486726
Ion Ratio Lower Upper
252 100
253 23.0 18.0 27.0
125 11.8 11.2 16.8



#89
Benzo(a)pyrene
Concen: 26.29 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.02 min
Lab File: BF088490.D
Acq: 28 Jun 2016 20:36

Tgt Ion:252 Resp: 236779
Ion Ratio Lower Upper
252 100
253 23.2 17.9 26.9
125 16.8 12.5 18.7





#90

Dibenzo(a,h)anthracene

Concen: 4.03 ng

RT: 16.39 min Scan# 1295

Delta R.T. 0.13 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

Instrument :

BNA_F

ClientSampleId :

SUBSURFACEDUPDL

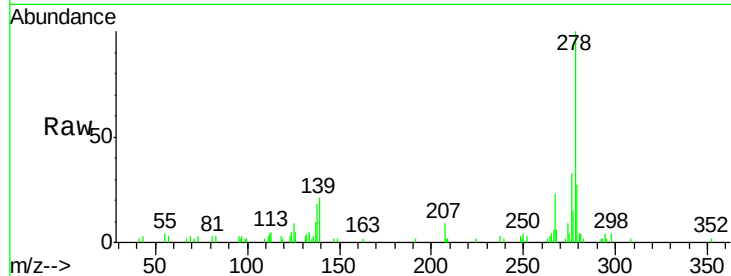
Tgt Ion:278 Resp: 33719

Ion Ratio Lower Upper

278 100

139 20.8 15.7 23.5

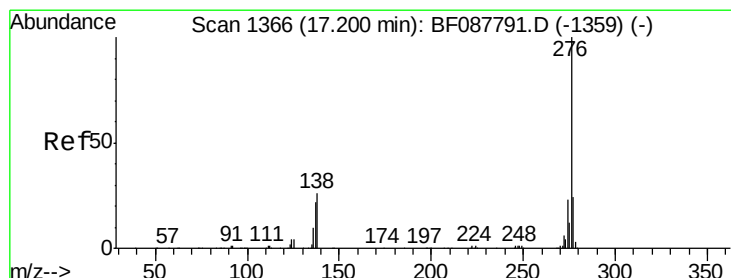
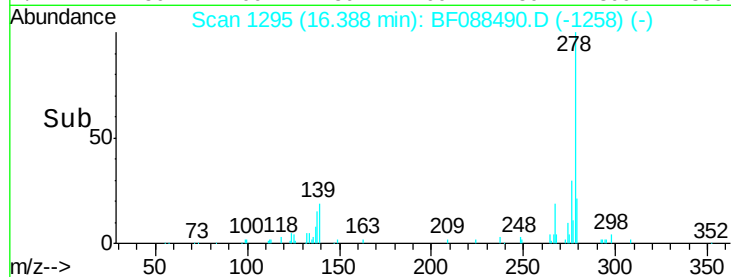
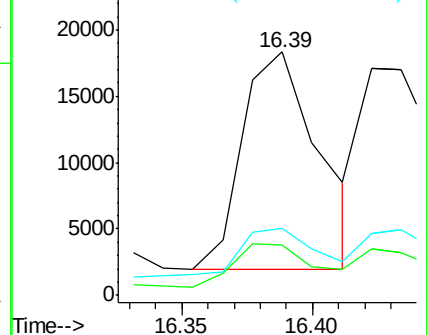
279 27.4 19.4 29.2



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: 23.07 ng

RT: 16.61 min Scan# 1314

Delta R.T. -0.02 min

Lab File: BF088490.D

Acq: 28 Jun 2016 20:36

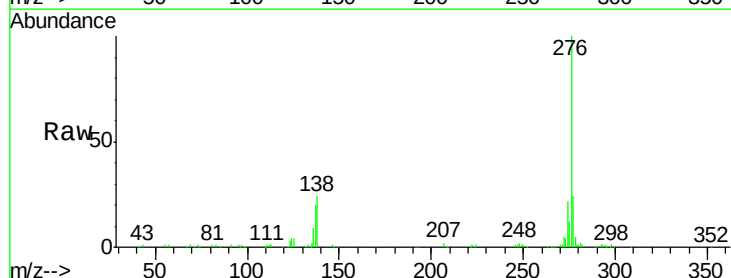
Tgt Ion:276 Resp: 198538

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 24.4 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

