

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
 Data File : BF082610.D
 Acq On : 31 Oct 2015 9:46
 Operator : UM/IZ
 Sample : G4178-01DL 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S1-BOILERROOM2.5FTDEEPDL

Manual Integrations
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 11/2/2015 4:32:27 PM

Quant Time: Nov 02 06:47:40 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 31 00:17:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	192912	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	776807	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	400918	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	704187	20.00	ng	0.00
75) Chrysene-d12	14.08	240	470601	20.00	ng	0.00
86) Perylene-d12	15.54	264	406697	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	194606	15.19	ng	-0.01
7) Phenol-d6	6.52	99	282518	16.60	ng	-0.01
23) Nitrobenzene-d5	7.46	82	192020	10.09	ng	-0.01
41) 2,4,6-Tribromophenol	10.73	330	55072	12.55	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	285046	10.09	ng	-0.01
78) Terphenyl-d14	13.01	244	247359	11.50	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.21	128	613430	14.59	ng	99
37) 2-Methylnaphthalene	8.90	142	82167	3.02	ng	96
49) Dimethylphthalate	9.66	163	76153	2.33	ng	99
51) Acenaphthene	9.97	154	92532	3.45	ng	96
54) Dibenzofuran	10.14	168	140758	3.86	ng	100
57) Fluorene	10.49	166	136848	4.66	ng	99
70) Phenanthrene	11.46	178	1273426	32.06	ng	98
71) Anthracene	11.50	178	355606	8.89	ng	99
72) Carbazole	11.65	167	142578	4.09	ng	99
74) Fluoranthene	12.65	202	1086943	26.77	ng	96
77) Pyrene	12.88	202	823284	23.63	ng	97
80) Benzo(a)anthracene	14.07	228	326716m	10.93	ng	
82) Chrysene	14.10	228	272883m	10.07	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	140205	6.27	ng	92
87) Benzo(b)fluoranthene	15.12	252	281824m	10.05	ng	
88) Benzo(k)fluoranthene	15.14	252	94334m	4.42	ng	
89) Benzo(a)pyrene	15.47	252	205679	9.31	ng	97
91) Benzo(g,h,i)perylene	17.39	276	130994	6.56	ng	96

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

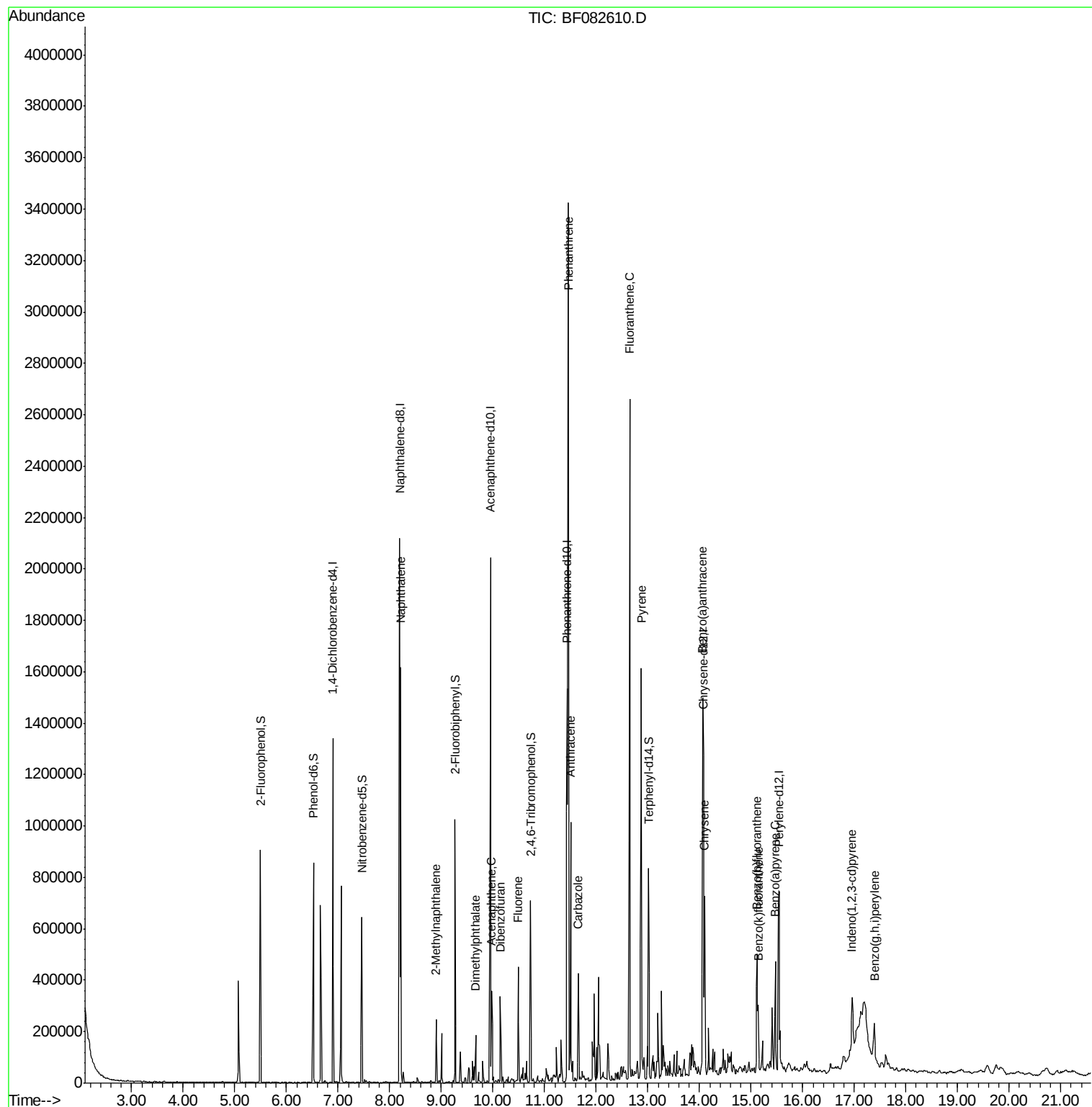
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
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ALS Vial : 28 Sample Multiplier: 1

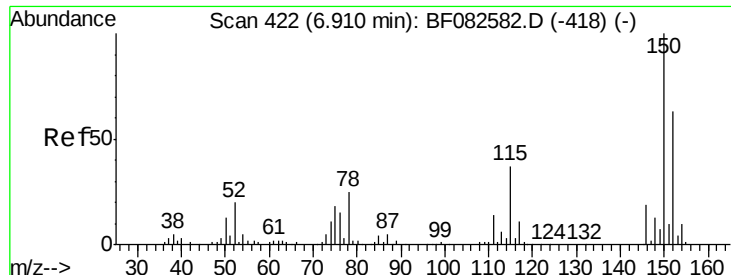
Instrument :
BNA_F
ClientSampleId :
S1-BOILERROOM2.5FTDEEPDL

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

ClientSampleId :

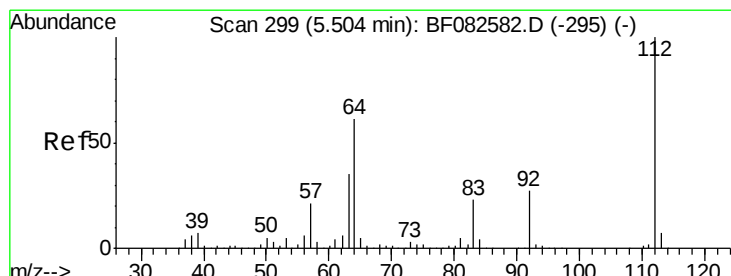
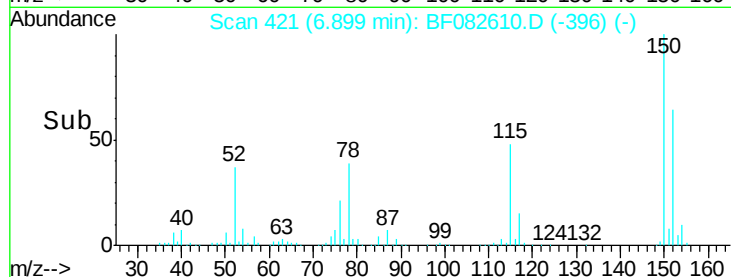
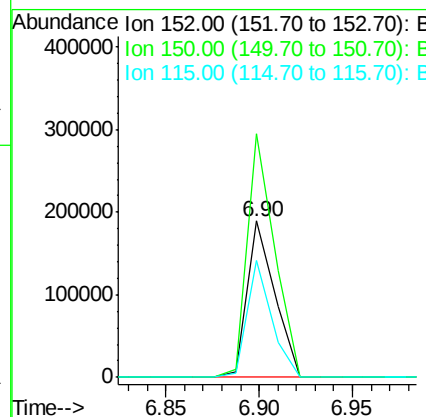
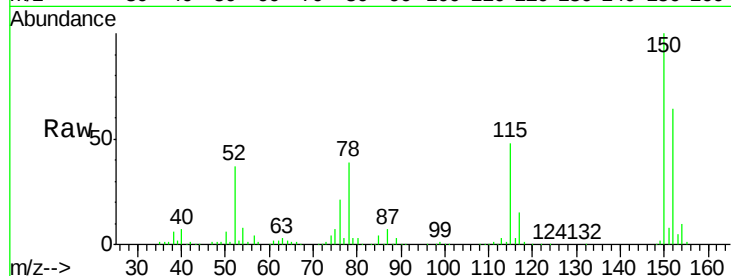
S1-BOILERROOM2.5FTDEEPL

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Tgt Ion:	152	Resp:	192912
Ion Ratio	Lower	Upper	
152	100		
150	156.0	127.0	190.4
115	75.2	47.0	70.6#



#5

2-Fluorophenol

Concen: 15.19 ng

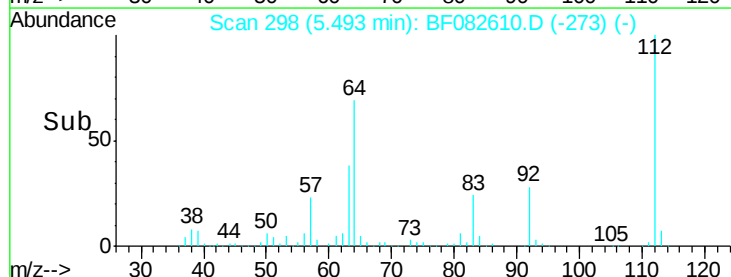
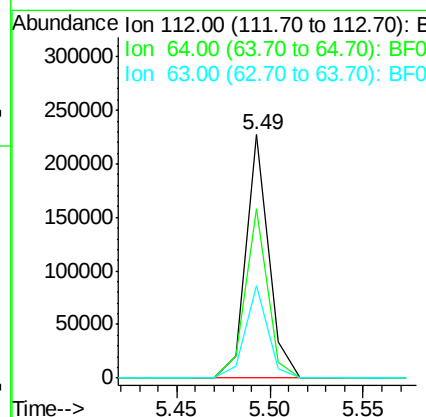
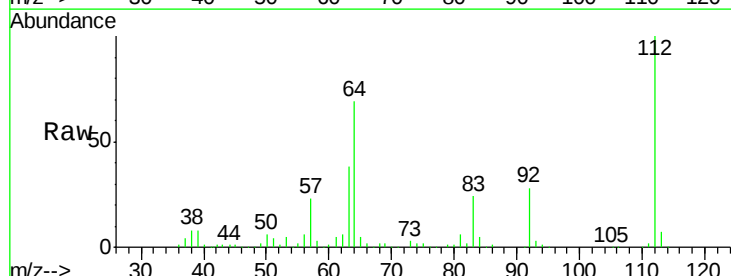
RT: 5.49 min Scan# 298

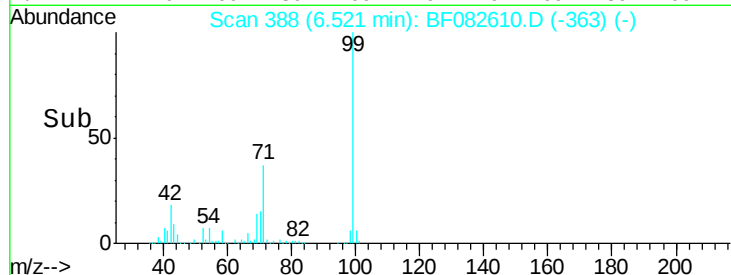
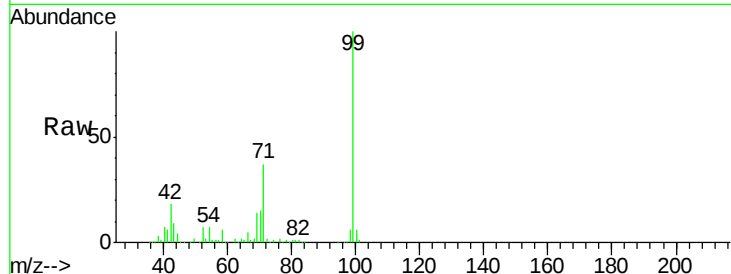
Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion:	112	Resp:	194606
Ion Ratio	Lower	Upper	
112	100		
64	69.4	48.9	73.3
63	37.9	28.1	42.1





#7

Phenol-d6

Concen: 16.60 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion:	99	Resp:	282518
Ion Ratio	Lower	Upper	
99	100		
42	18.0	19.2	28.8#
71	37.4	35.0	52.4

Instrument :

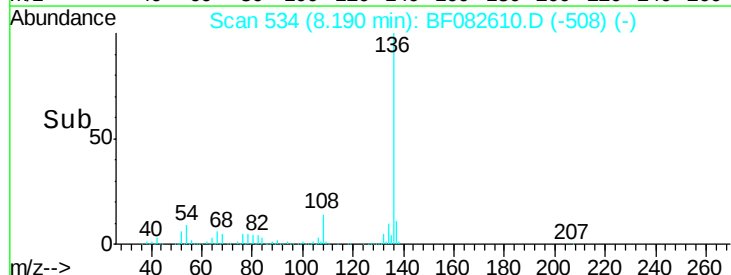
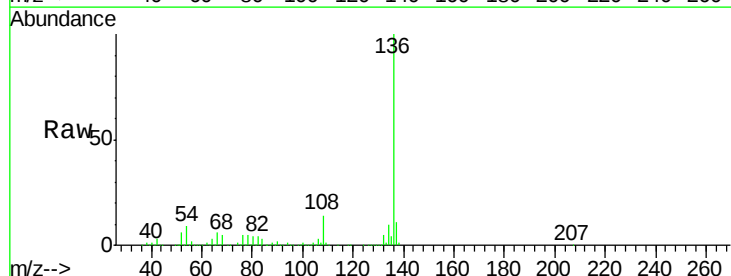
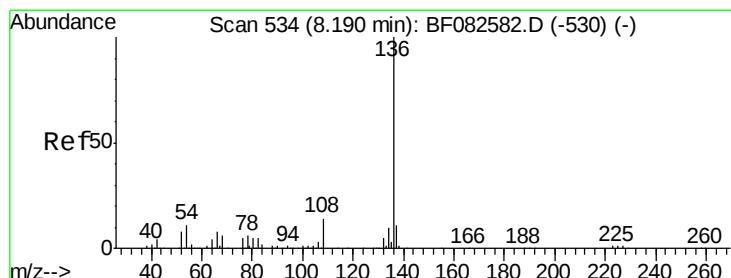
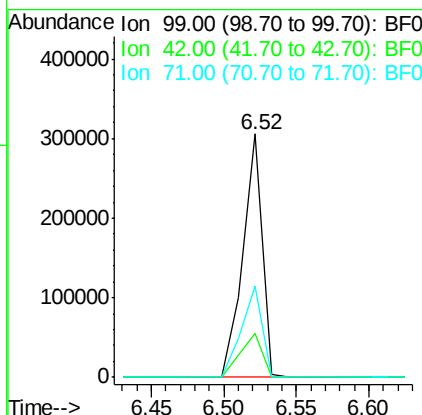
BNA_F

ClientSampleId :

S1-BOILERROOM2.5FTDEEPL

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#21

Naphthalene-d8

Concen: 20.00 ng

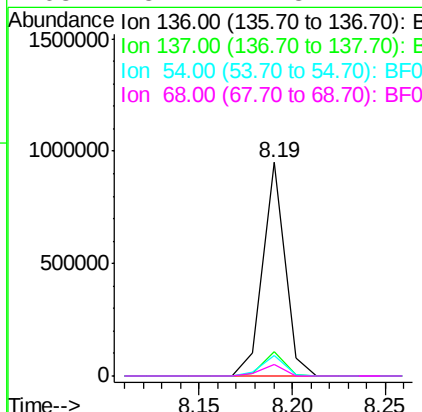
RT: 8.19 min Scan# 534

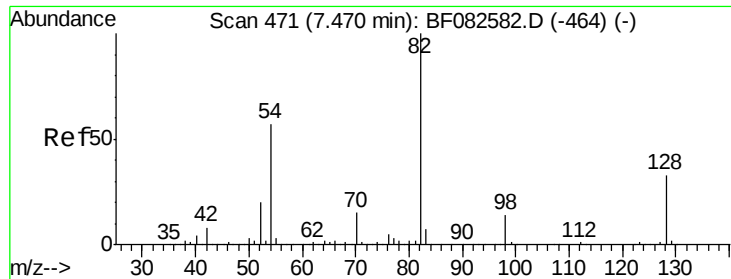
Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion:	136	Resp:	776807
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	9.4	9.1	13.7
68	5.4	4.8	7.2





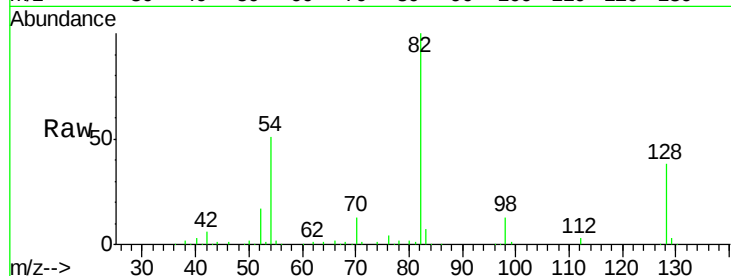
#23
 Nitrobenzene-d5
 Concen: 10.09 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Instrument :
 BNA_F
 ClientSampleId :
 S1-BOILERROOM2.5FTDEEPL

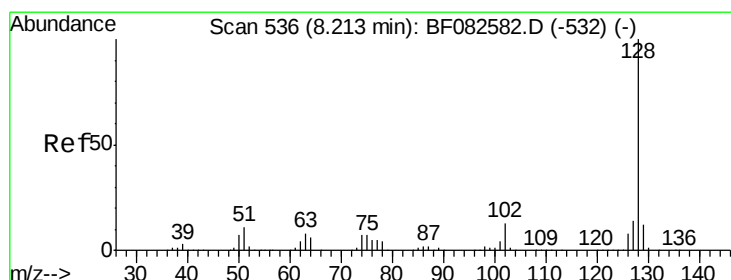
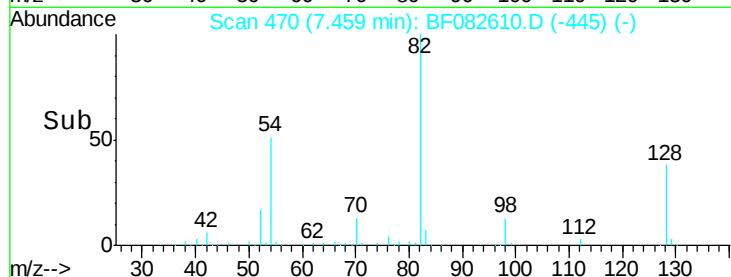
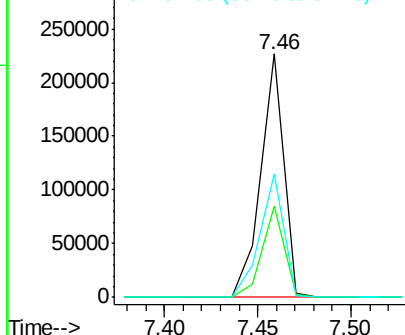
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.7	26.8	40.2
54	50.6	45.7	68.5

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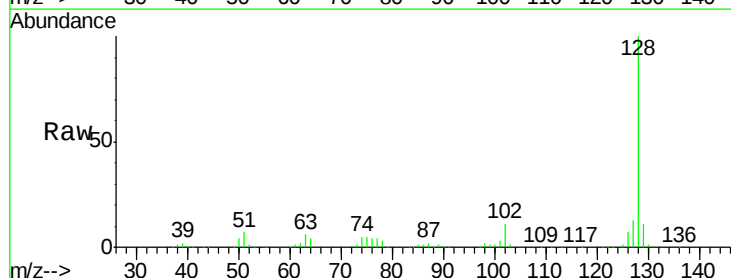


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

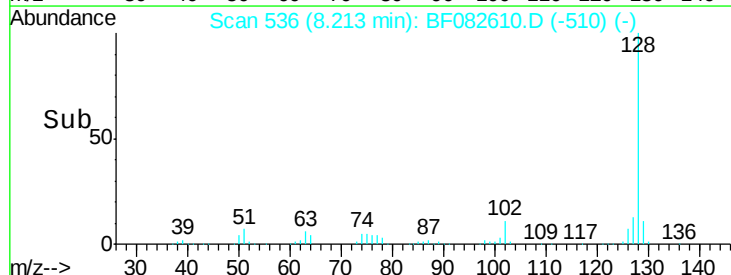
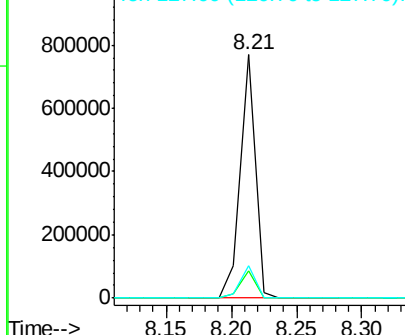


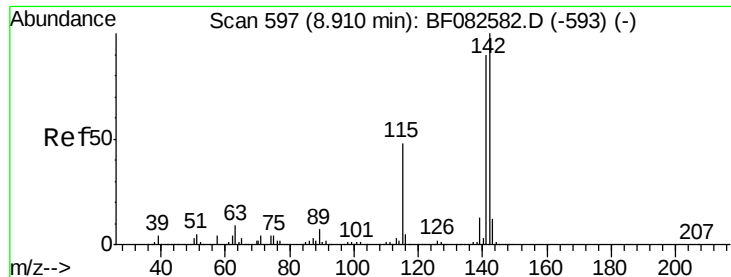
#31
 Naphthalene
 Concen: 14.59 ng
 RT: 8.21 min Scan# 536
 Delta R.T. -0.00 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.5	14.3
127	13.5	11.4	17.0



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 3.02 ng

RT: 8.90 min Scan# 596

Delta R.T. -0.01 min

Lab File: BF082610.D

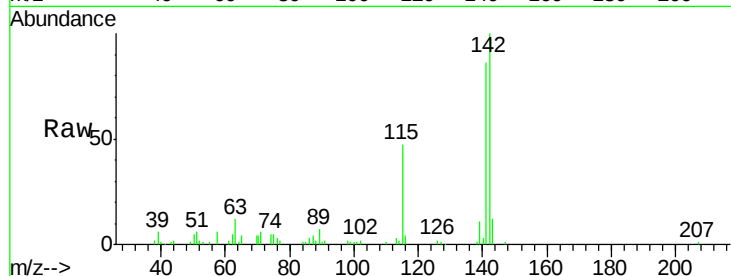
Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

ClientSampleId :

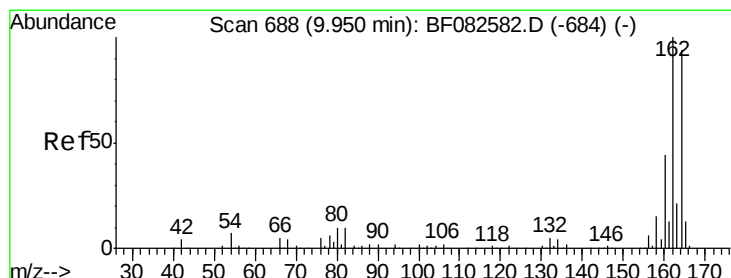
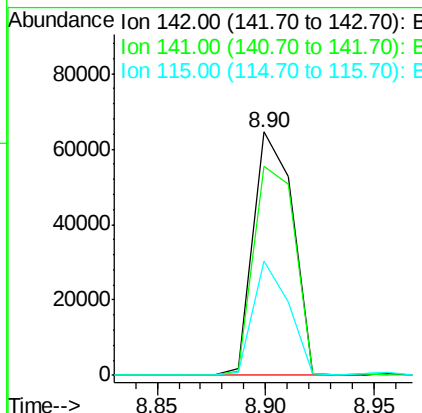
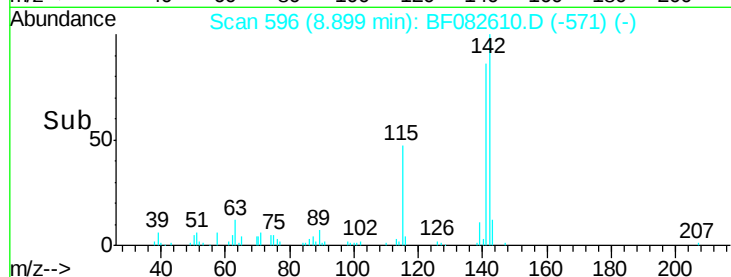
S1-BOILERROOM2.5FTDEEPDL



Tgt Ion:	142	Resp:	82167
Ion Ratio	Lower	Upper	
142	100		
141	85.7	72.3	108.5
115	46.8	38.1	57.1

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#38

Acenaphthene-d10

Concen: 20.00 ng

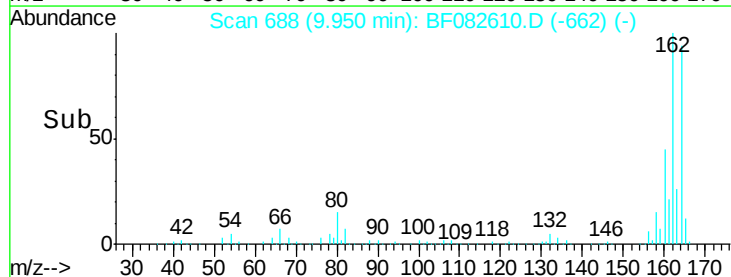
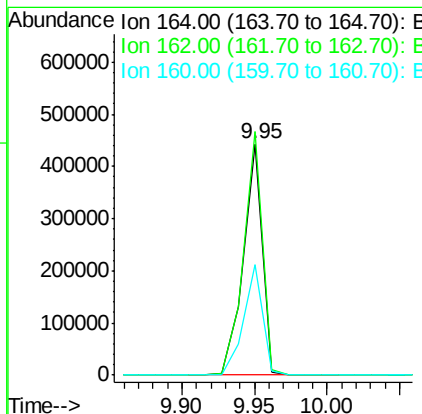
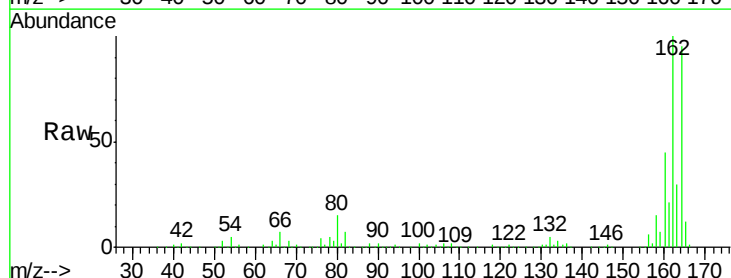
RT: 9.95 min Scan# 688

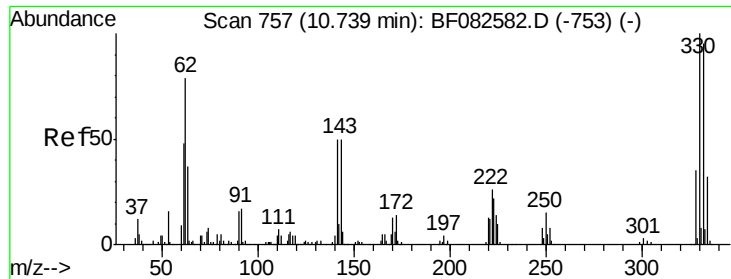
Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion:	164	Resp:	400918
Ion Ratio	Lower	Upper	
164	100		
162	105.5	84.9	127.3
160	47.7	37.5	56.3





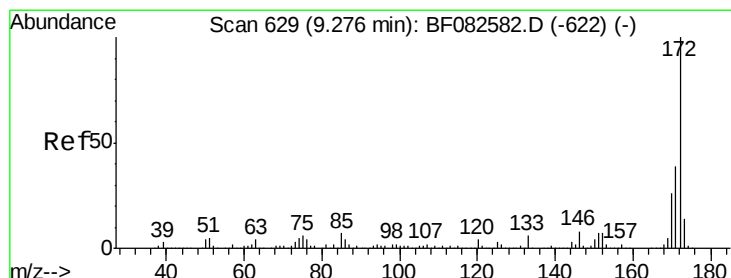
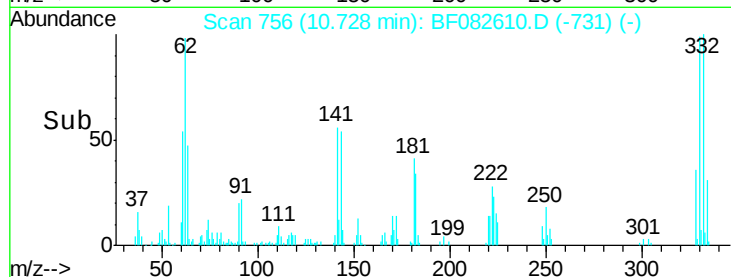
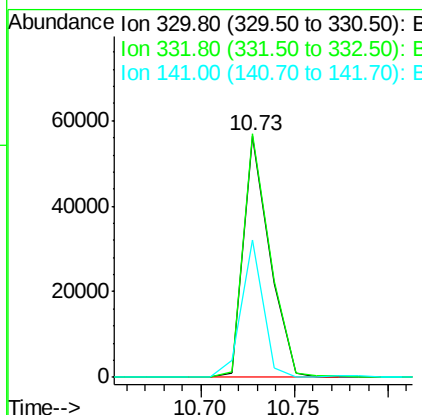
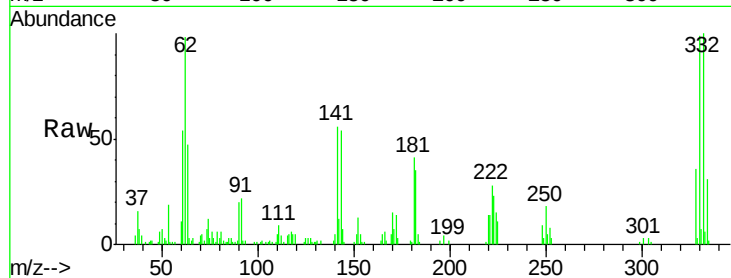
#41
 2,4,6-Tribromophenol
 Concen: 12.55 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Instrument :
 BNA_F
 ClientSampleId :
 S1-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	55072		
332	102.7	76.6	114.8	
141	47.6	41.2	61.8	

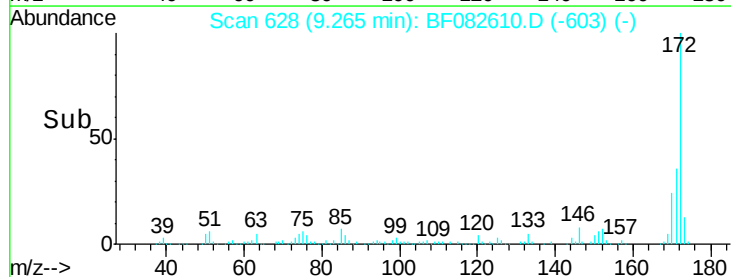
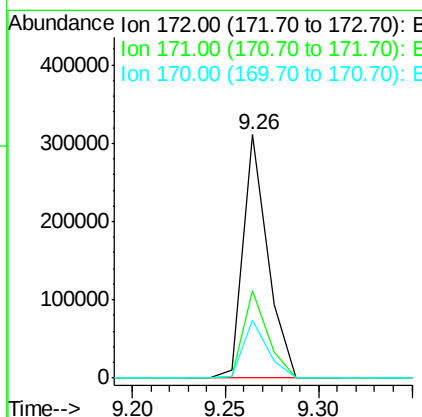
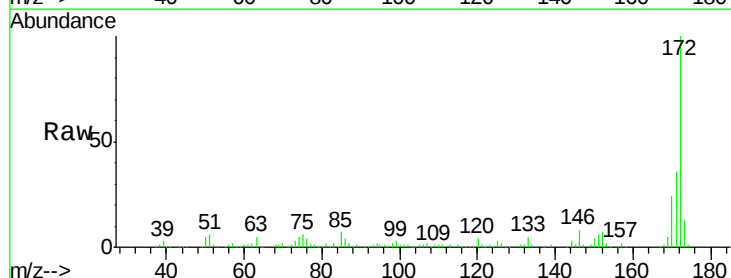
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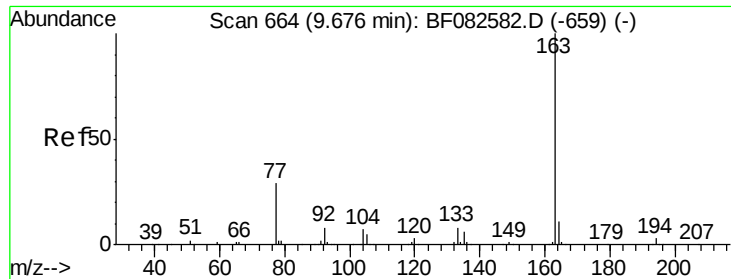
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#44
 2-Fluorobiphenyl
 Concen: 10.09 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.01 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	285046		
171	35.8	30.8	46.2	
170	23.9	21.2	31.8	





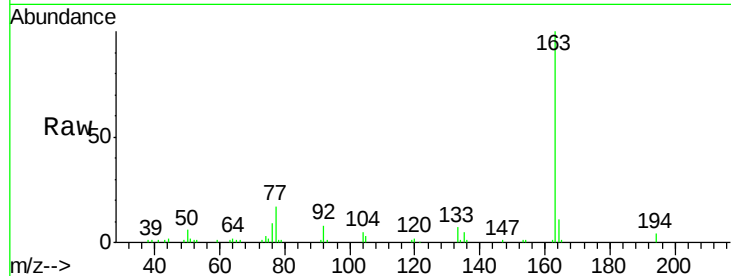
#49
Dimethylphthalate
Concen: 2.33 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Instrument :
BNA_F
ClientSampleId :
S1-BOILERROOM2.5FTDEEPDL

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	76153		
194	3.9	2.6	4.0	
164	10.6	8.7	13.1	

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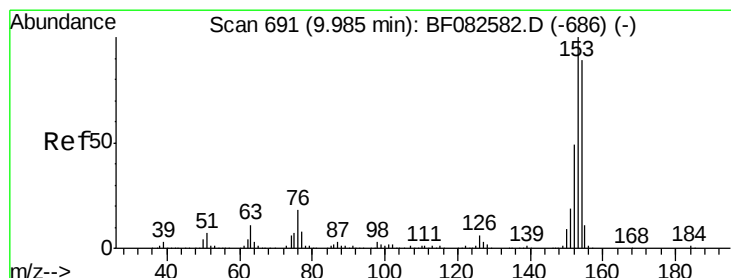
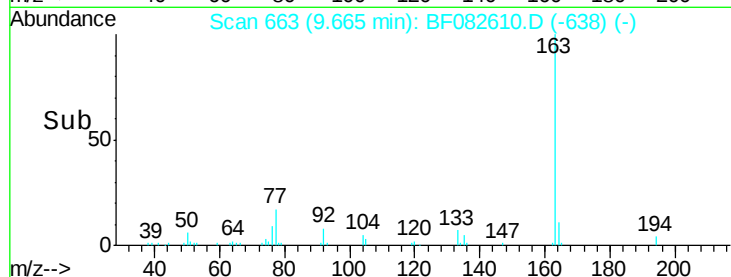
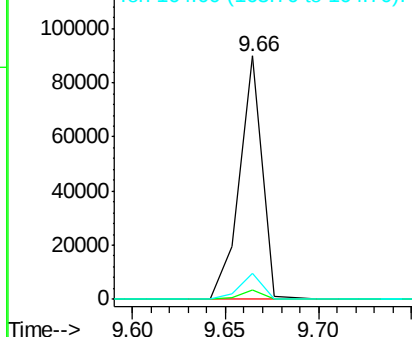


Abundance

Ion 163.00 (162.70 to 163.70): E

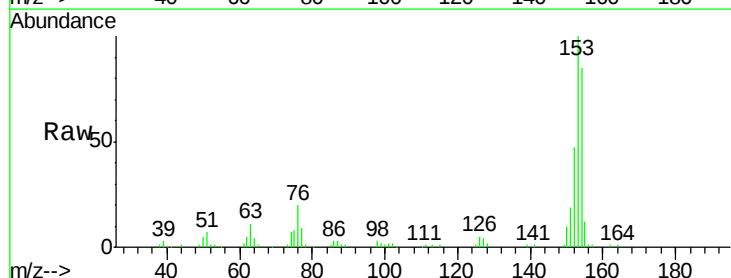
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 3.45 ng
RT: 9.97 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	92532		
153	118.3	90.1	135.1	
152	55.5	44.3	66.5	

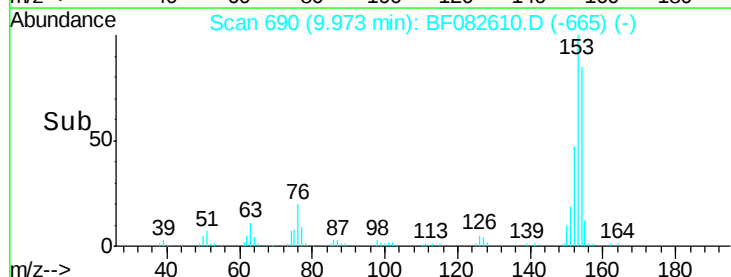
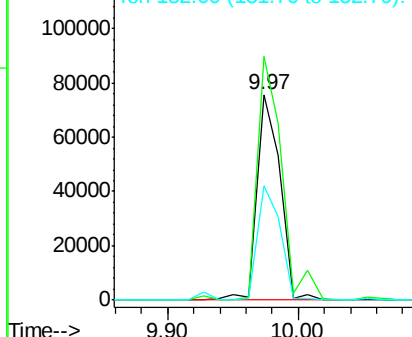


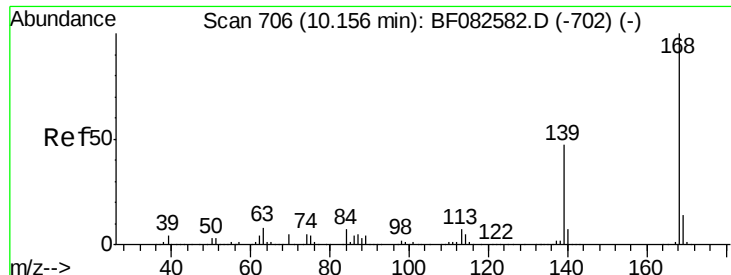
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 3.86 ng

RT: 10.14 min Scan# 705

Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

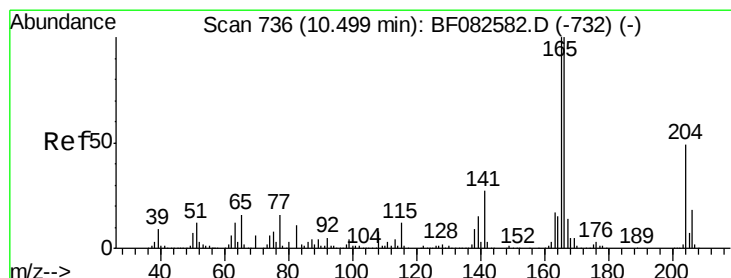
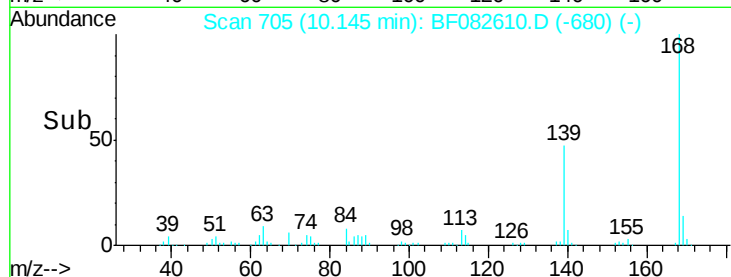
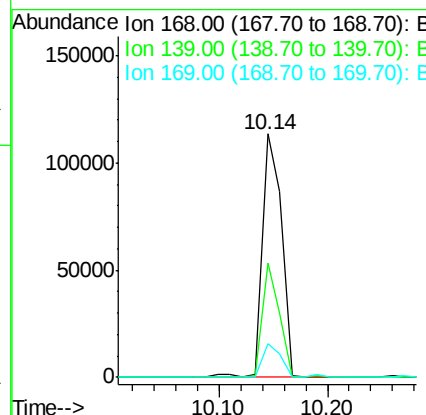
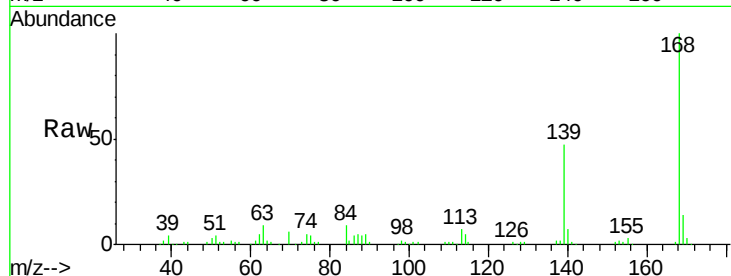
ClientSampleId :

S1-BOILERROOM2.5FTDEEPL

Manual Integrations
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Tgt Ion:	168	Resp:	140758
Ion Ratio	Lower	Upper	
168	100		
139	46.8	37.8	56.6
169	14.1	11.3	16.9



#57

Fluorene

Concen: 4.66 ng

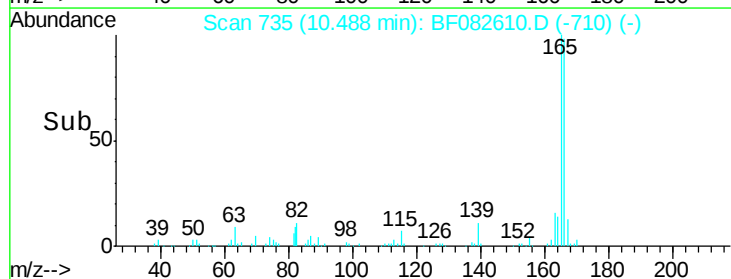
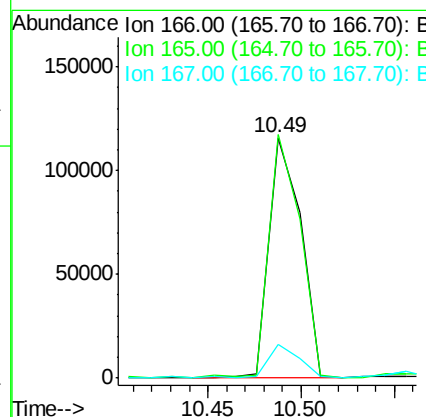
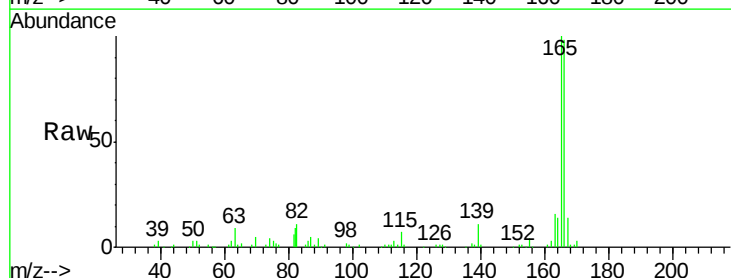
RT: 10.49 min Scan# 735

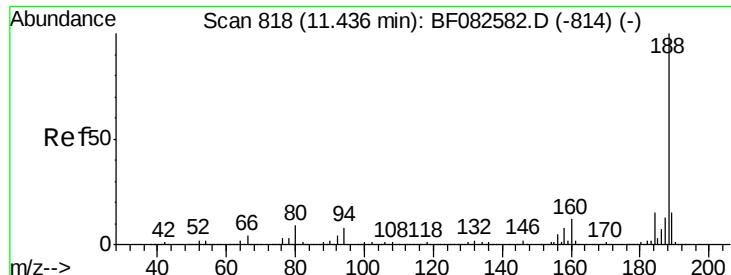
Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion:	166	Resp:	136848
Ion Ratio	Lower	Upper	
166	100		
165	101.6	80.2	120.4
167	13.9	11.2	16.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.44 min Scan# 818

Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

ClientSampleId :

S1-BOILERROOM2.5FTDEEPL

Tgt Ion:188 Resp: 704187
Ion Ratio Lower Upper

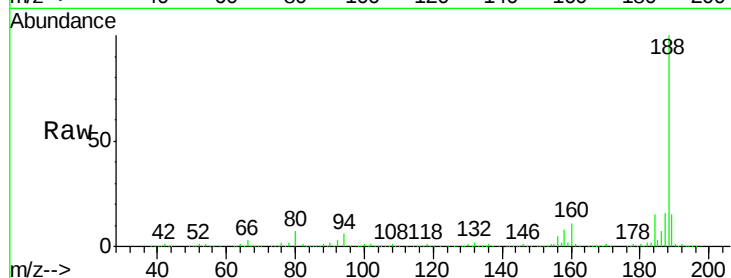
188 100

94 5.9 6.1 9.1#

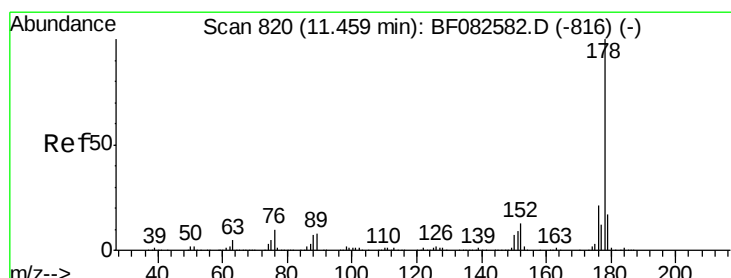
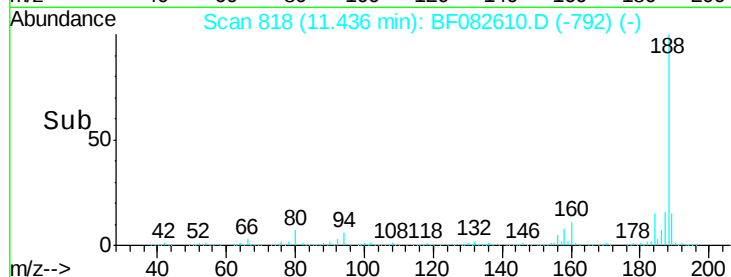
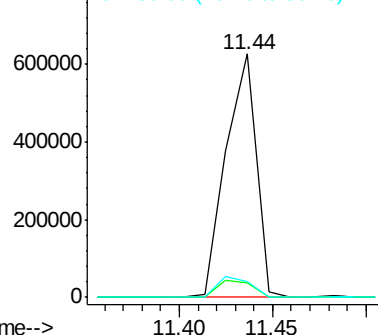
80 6.7 7.0 10.6#

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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: 32.06 ng

RT: 11.46 min Scan# 820

Delta R.T. -0.00 min

Lab File: BF082610.D

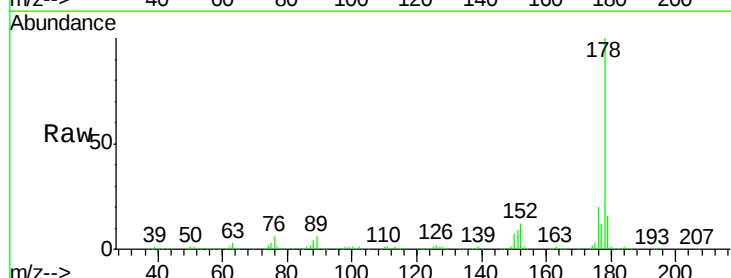
Acq: 31 Oct 2015 9:46

Tgt Ion:178 Resp: 1273426
Ion Ratio Lower Upper

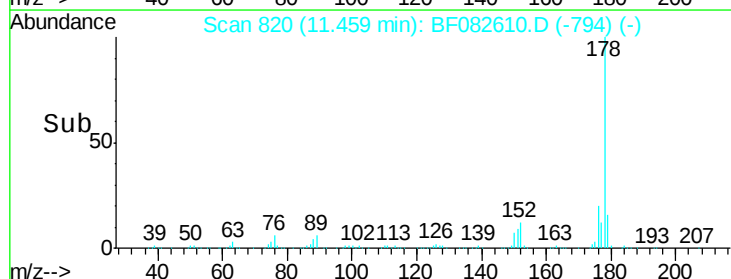
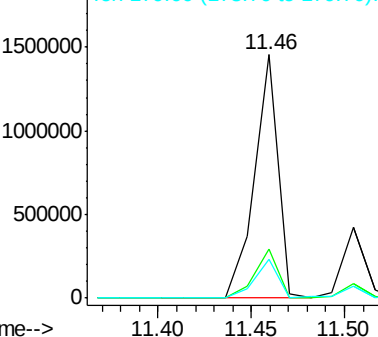
178 100

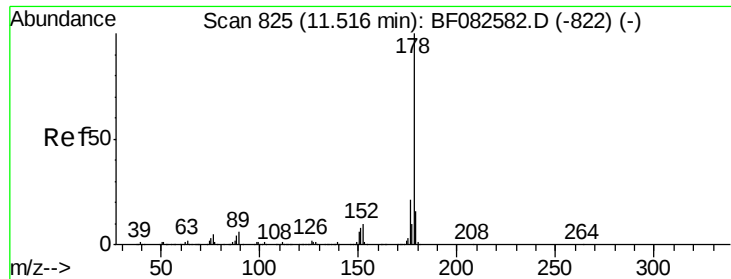
176 20.3 17.0 25.4

179 16.0 13.4 20.0



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





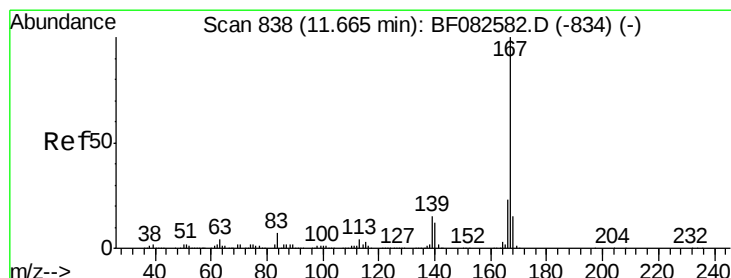
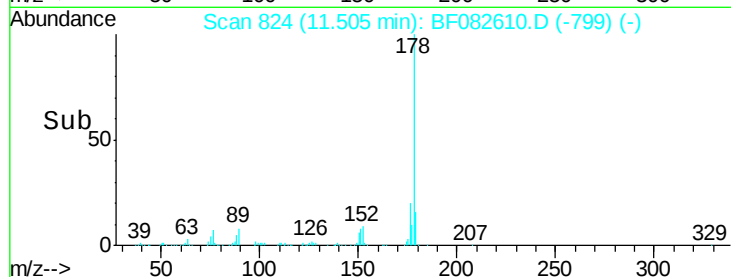
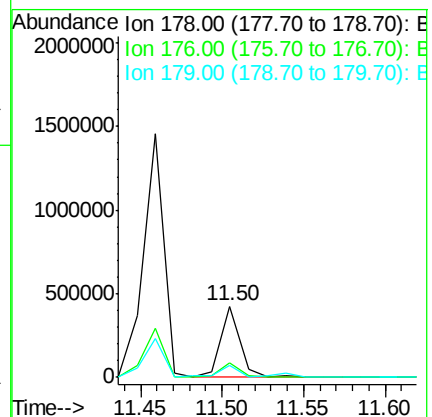
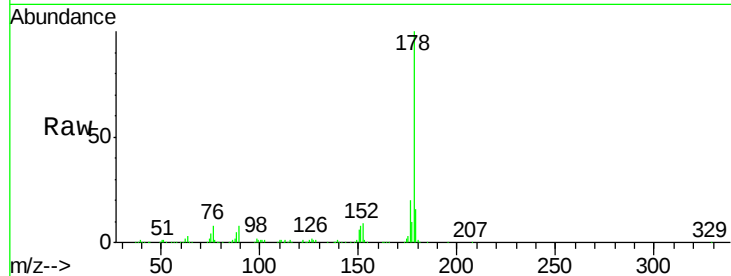
#71
 Anthracene
 Concen: 8.89 ng
 RT: 11.50 min Scan# 824
 Delta R.T. -0.01 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Instrument :
 BNA_F
 ClientSampleId :
 S1-BOILERROOM2.5FTDEEPDL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.5	24.7
179	15.9	13.2	19.8

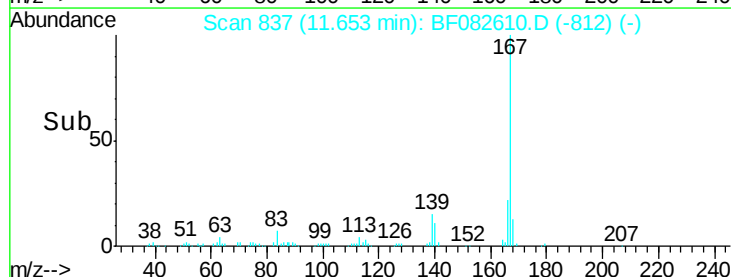
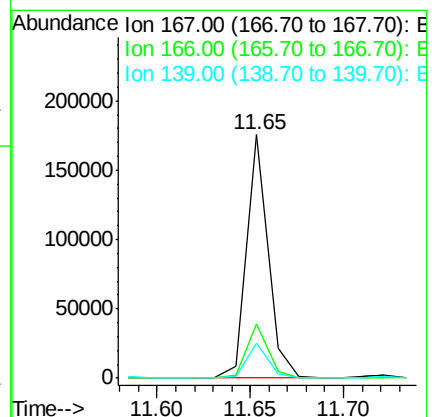
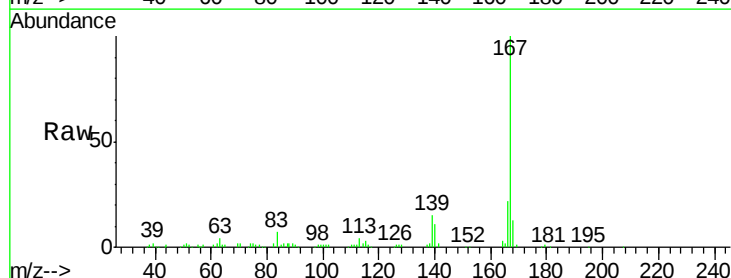
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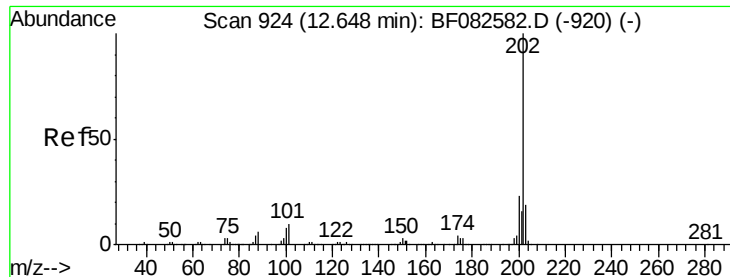
Mmdadoda
 11/2/2015 4:32:27 PM



#72
 Carbazole
 Concen: 4.09 ng
 RT: 11.65 min Scan# 837
 Delta R.T. -0.01 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.7	28.1
139	14.5	11.8	17.6





#74

Fluoranthene

Concen: 26.77 ng

RT: 12.65 min Scan# 924

Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

ClientSampleId :

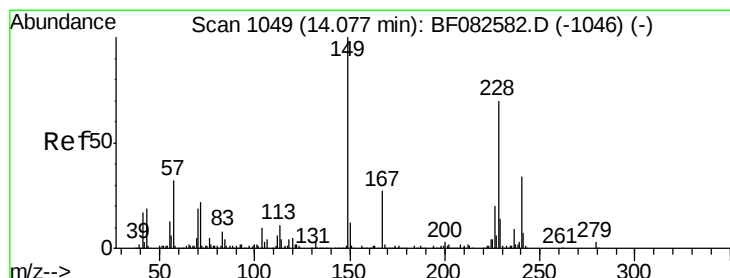
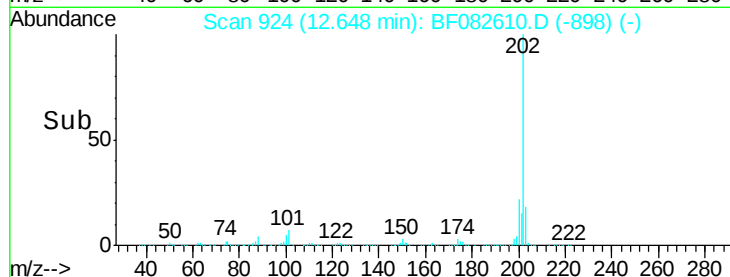
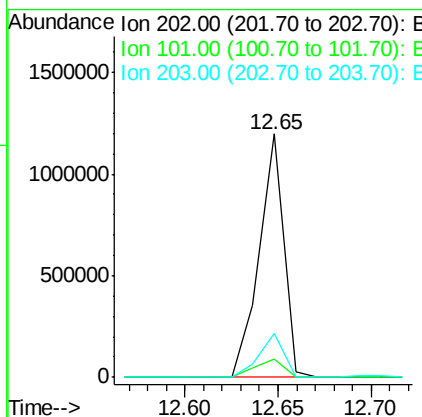
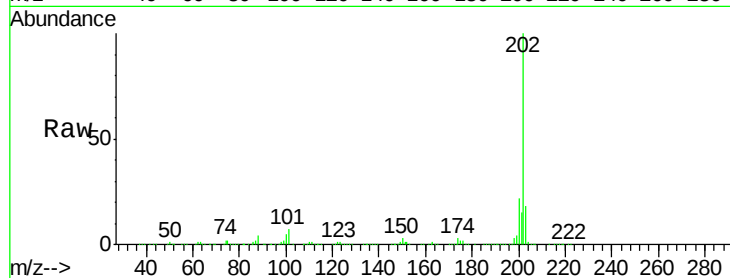
S1-BOILERROOM2.5FTDEEPL

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Tgt	Ion	202	Resp	1086943
Ion	Ratio	Lower	Upper	
202	100			
101	7.3	0.0	30.5	
203	18.0	0.0	38.5	



#75

Chrysene-d12

Concen: 20.00 ng

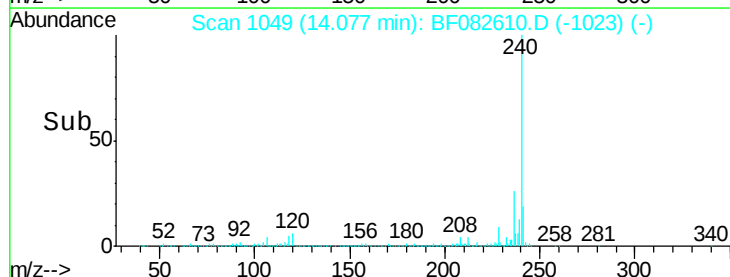
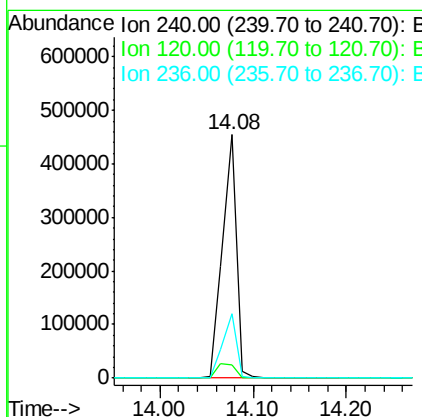
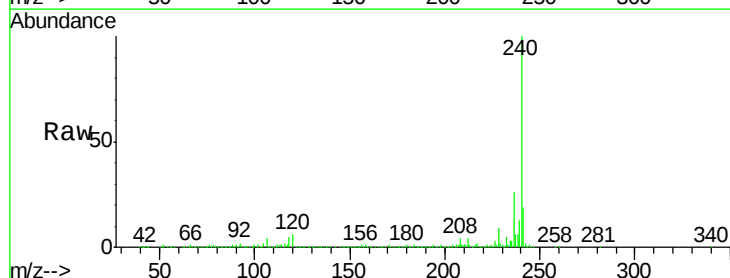
RT: 14.08 min Scan# 1049

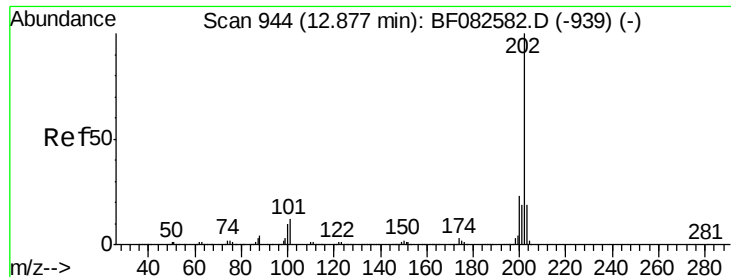
Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt	Ion	240	Resp	470601
Ion	Ratio	Lower	Upper	
240	100			
120	5.6	10.9	16.3#	
236	26.4	21.6	32.4	





#77

Pyrene

Concen: 23.63 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.00 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

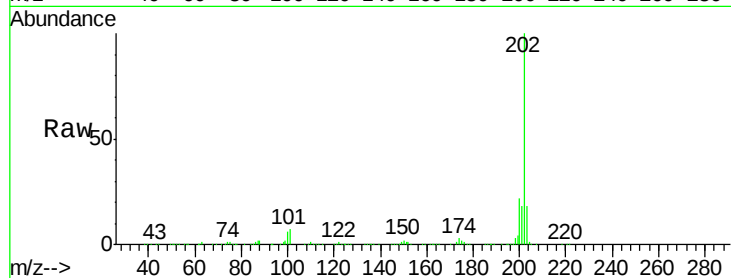
ClientSampleId :

S1-BOILERROOM2.5FTDEEPL

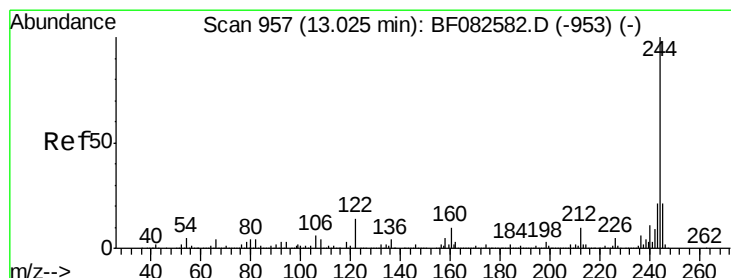
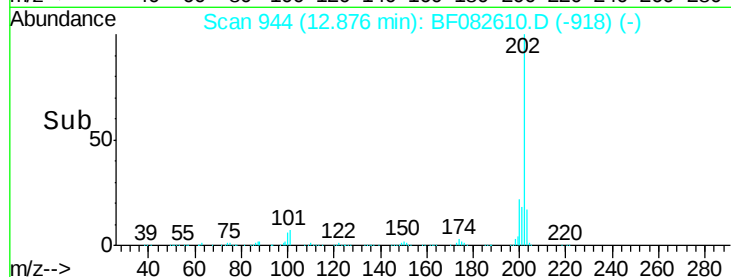
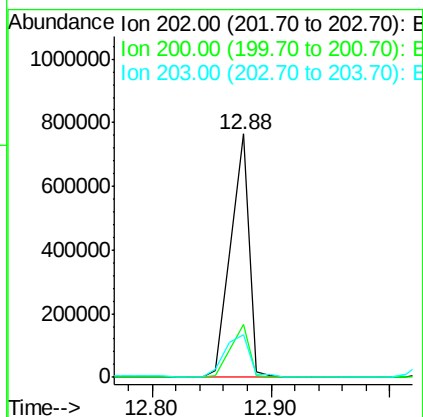
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Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	18.7	28.1
203	17.6	14.8	22.2



#78

Terphenyl-d14

Concen: 11.50 ng

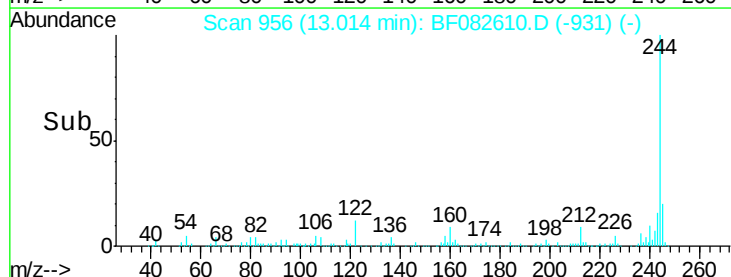
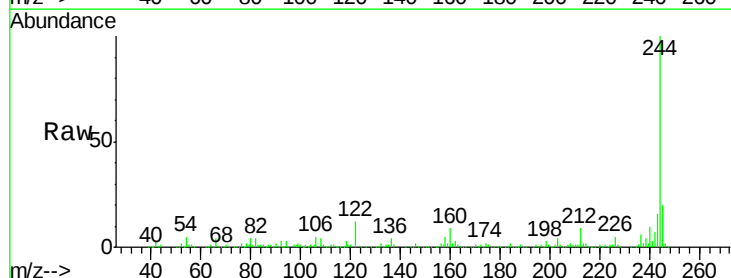
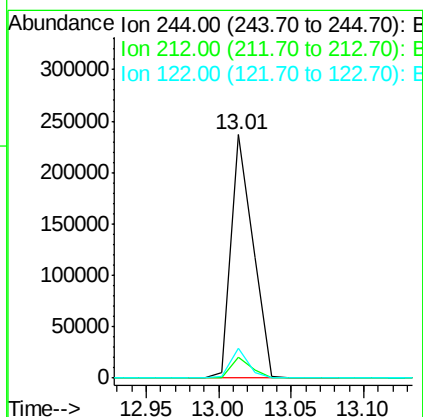
RT: 13.01 min Scan# 956

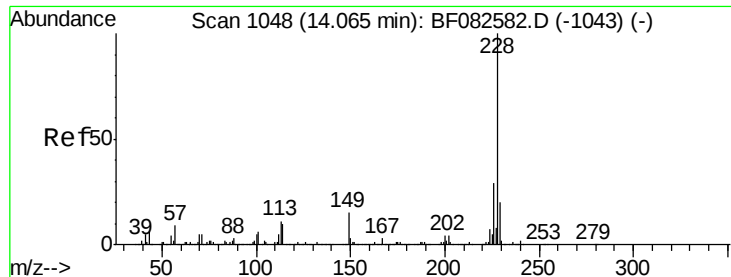
Delta R.T. -0.01 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.7	7.6	11.4
122	12.4	11.3	16.9





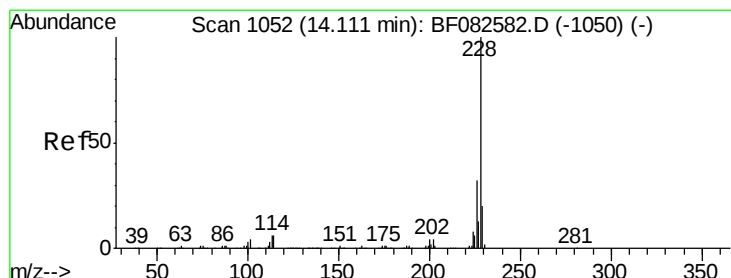
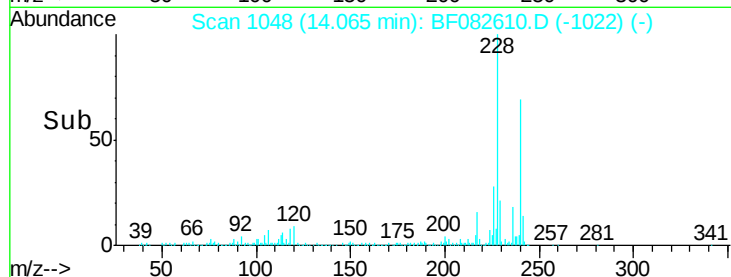
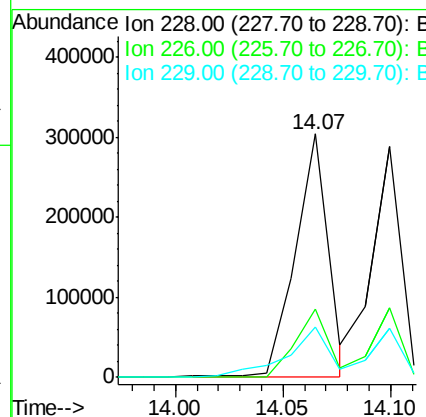
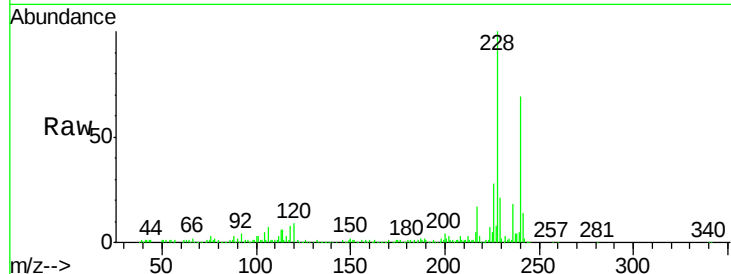
#80
Benzo(a)anthracene
Concen: 10.93 ng m
RT: 14.07 min Scan# 1048
Delta R.T. -0.00 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Instrument :
BNA_F
ClientSampleId :
S1-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	23.4	35.2
229	20.9	16.3	24.5

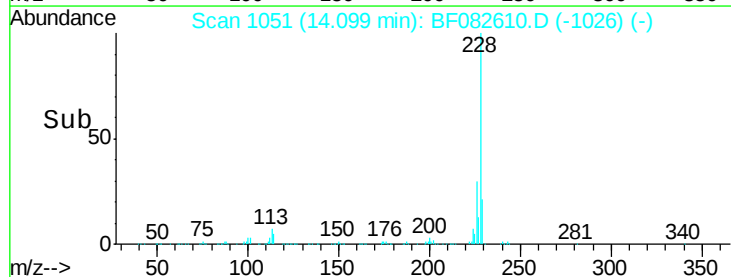
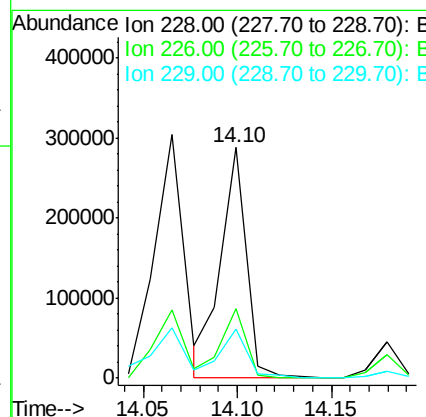
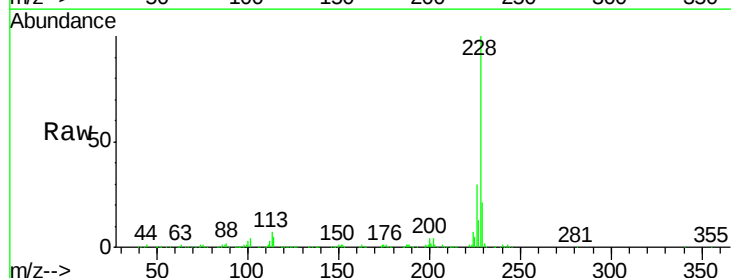
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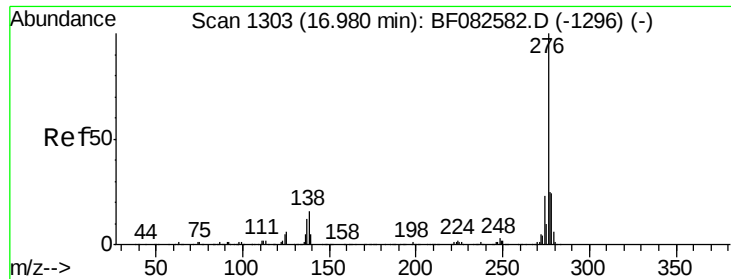
Mmdadoda
11/2/2015 4:32:27 PM



#82
Chrysene
Concen: 10.07 ng m
RT: 14.10 min Scan# 1051
Delta R.T. -0.01 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.5	38.3
229	21.5	16.3	24.5





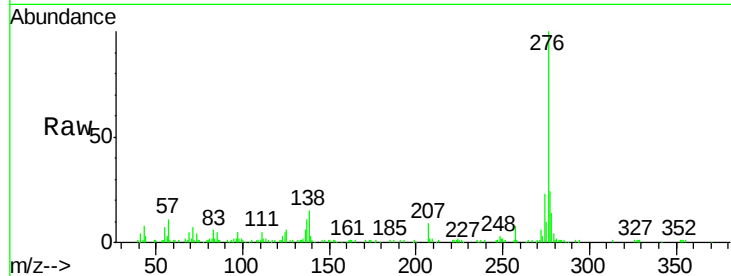
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.27 ng
 RT: 16.96 min Scan# 1301
 Delta R.T. -0.02 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Instrument :
 BNA_F
 ClientSampleId :
 S1-BOILERROOM2.5FTDEEPL

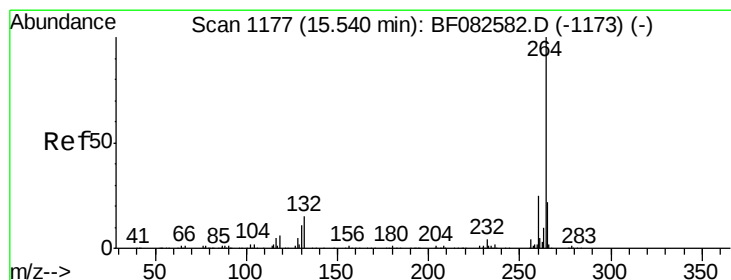
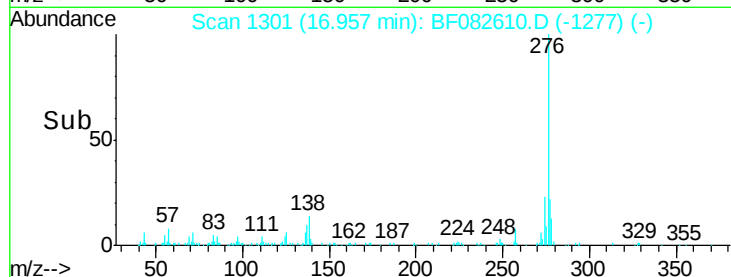
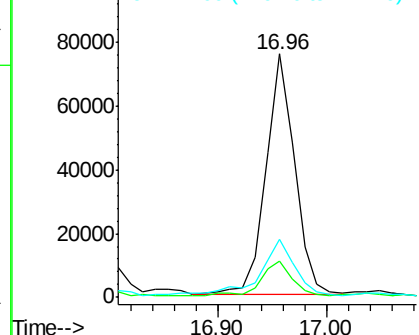
Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.4	15.3	22.9
277	29.8	20.2	30.4

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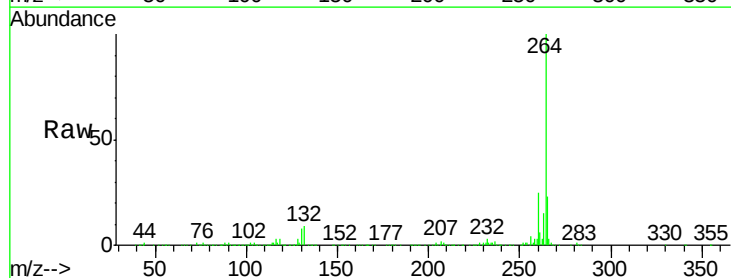


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

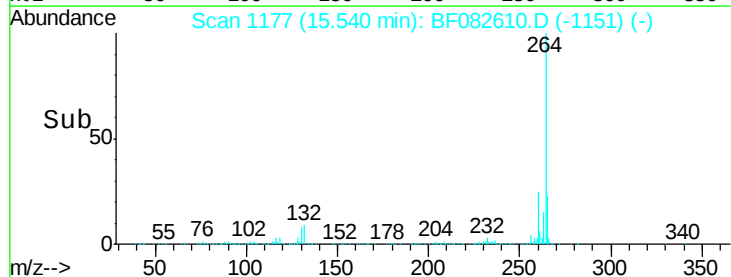
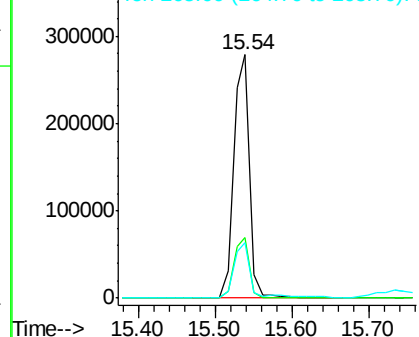


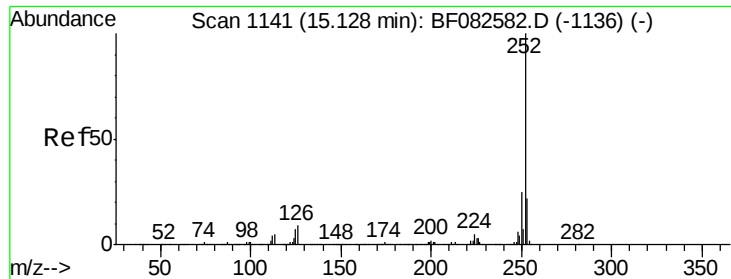
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.54 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: BF082610.D
 Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.8	29.6
265	22.6	17.4	26.0



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: 10.05 ng m

RT: 15.12 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF082610.D

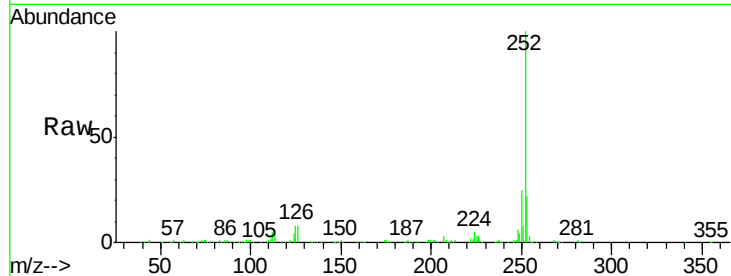
Acq: 31 Oct 2015 9:46

Instrument :

BNA_F

ClientSampleId :

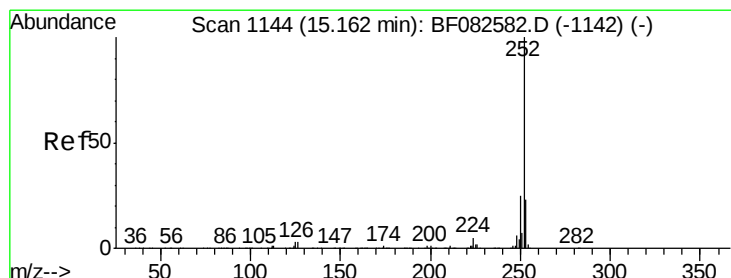
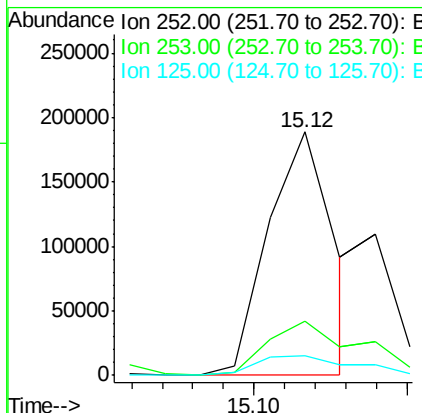
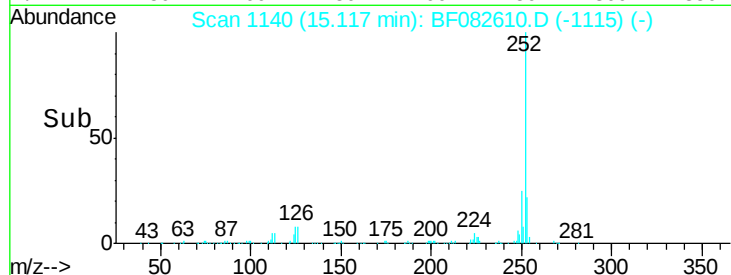
S1-BOILERROOM2.5FTDEEPL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	7.9	5.4	8.2

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11/2/2015 4:32:27 PM



#88

Benzo(k)fluoranthene

Concen: 4.42 ng m

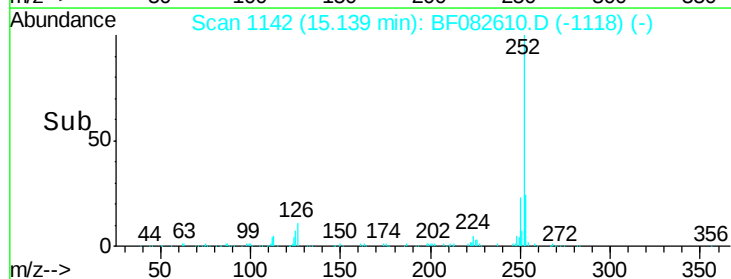
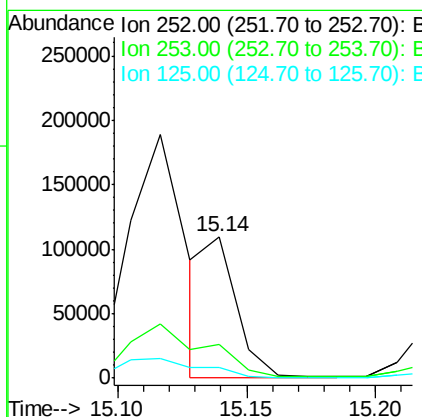
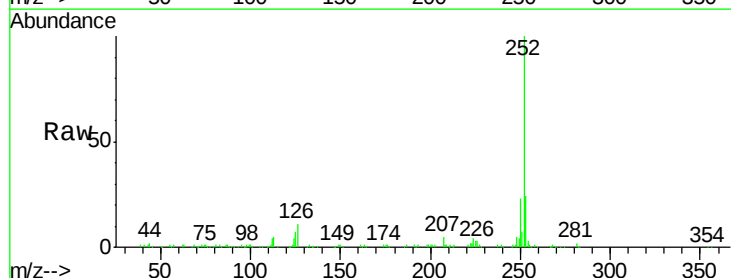
RT: 15.14 min Scan# 1142

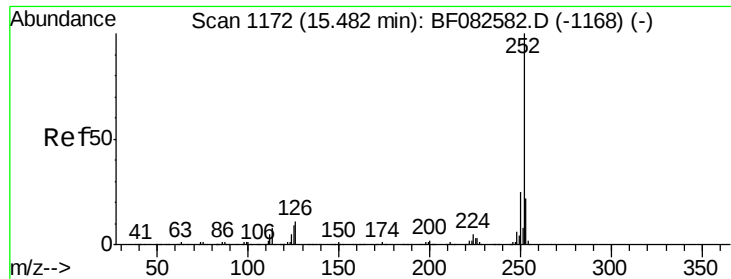
Delta R.T. -0.02 min

Lab File: BF082610.D

Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	7.1	3.5	5.3#





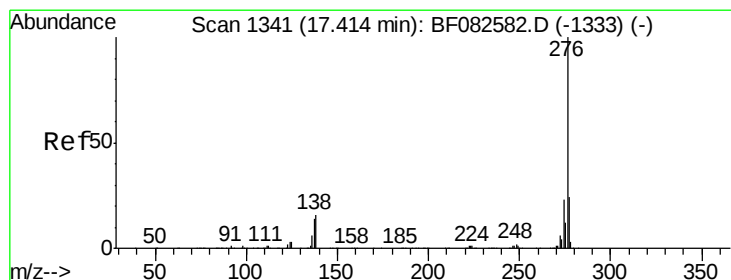
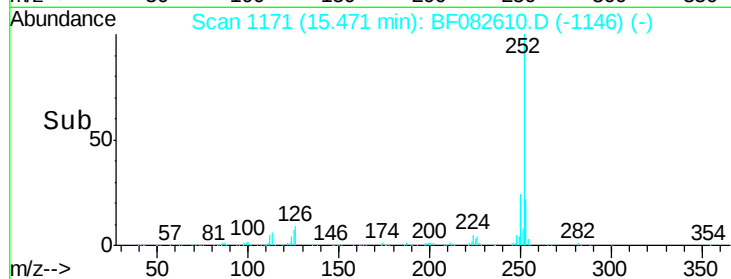
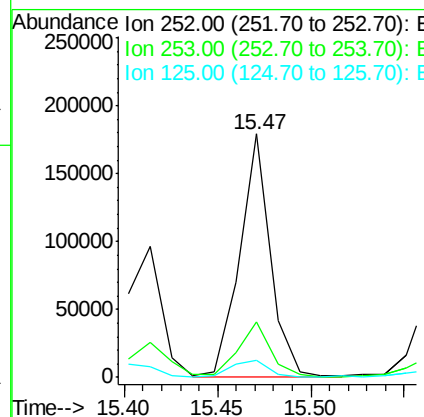
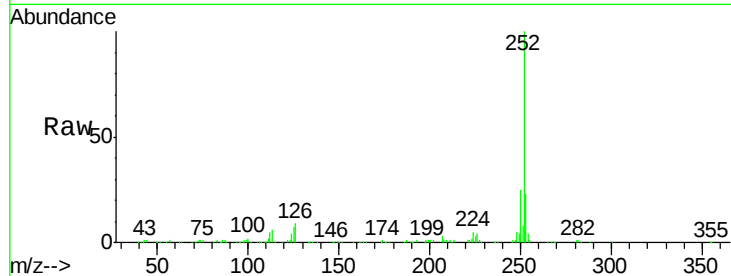
#89
Benzo(a)pyrene
Concen: 9.31 ng
RT: 15.47 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Instrument :
BNA_F
ClientSampleId :
S1-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.8	17.3	25.9
125	7.2	7.1	10.7

Manual Integrations
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Mmdadoda
11/2/2015 4:32:27 PM



#91
Benzo(g,h,i)perylene
Concen: 6.56 ng
RT: 17.39 min Scan# 1339
Delta R.T. -0.02 min
Lab File: BF082610.D
Acq: 31 Oct 2015 9:46

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	22.3	19.2	28.8
138	14.1	13.1	19.7

