

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
 Data File : BF082608.D
 Acq On : 31 Oct 2015 8:48
 Operator : UM/IZ
 Sample : G4178-05DL 5X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPDL

Manual Integrations
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Quant Time: Nov 02 06:28:05 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	184031	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	737216	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	371854	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	610414	20.00	ng	0.00
75) Chrysene-d12	14.09	240	337798	20.00	ng	0.01
86) Perylene-d12	15.56	264	436610	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	376814	30.84	ng	-0.01
7) Phenol-d6	6.52	99	531248	32.73	ng	-0.01
23) Nitrobenzene-d5	7.46	82	374578	20.75	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	112248	27.58	ng	0.00
44) 2-Fluorobiphenyl	9.26	172	553454	21.13	ng	-0.01
78) Terphenyl-d14	13.02	244	422984	27.40	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	7.31	107	33229	2.27	ng	# 61
31) Naphthalene	8.22	128	3946521	98.93	ng	96
37) 2-Methylnaphthalene	8.91	142	699840	27.07	ng	97
45) 1,1'-Biphenyl	9.37	154	254443	8.10	ng	96
48) Acenaphthylene	9.80	152	243295	6.20	ng	98
49) Dimethylphthalate	9.66	163	144760	4.77	ng	97
51) Acenaphthene	9.98	154	1042255	41.85	ng	99
54) Dibenzofuran	10.16	168	1547949	45.81	ng	98
57) Fluorene	10.50	166	1164627	42.73	ng	100
70) Phenanthrene	11.49	178	10800796m	313.71	ng	
71) Anthracene	11.53	178	3164475m	91.29	ng	
72) Carbazole	11.66	167	2493831	82.59	ng	99
74) Fluoranthene	12.68	202	9718871	276.14	ng	90
77) Pyrene	12.90	202	7499856	299.83	ng	# 88
80) Benzo(a)anthracene	14.08	228	3965649	184.81	ng	96
82) Chrysene	14.12	228	2745865m	141.18	ng	
85) Indeno(1,2,3-cd)pyrene	17.03	276	2517789	156.87	ng	# 96
87) Benzo(b)fluoranthene	15.15	252	4221238m	140.21	ng	
88) Benzo(k)fluoranthene	15.17	252	1233716m	53.79	ng	
89) Benzo(a)pyrene	15.52	252	2828914m	119.31	ng	
90) Dibenzo(a,h)anthracene	17.04	278	472366m	21.35	ng	
91) Benzo(g,h,i)perylene	17.47	276	2251511	105.02	ng	98

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

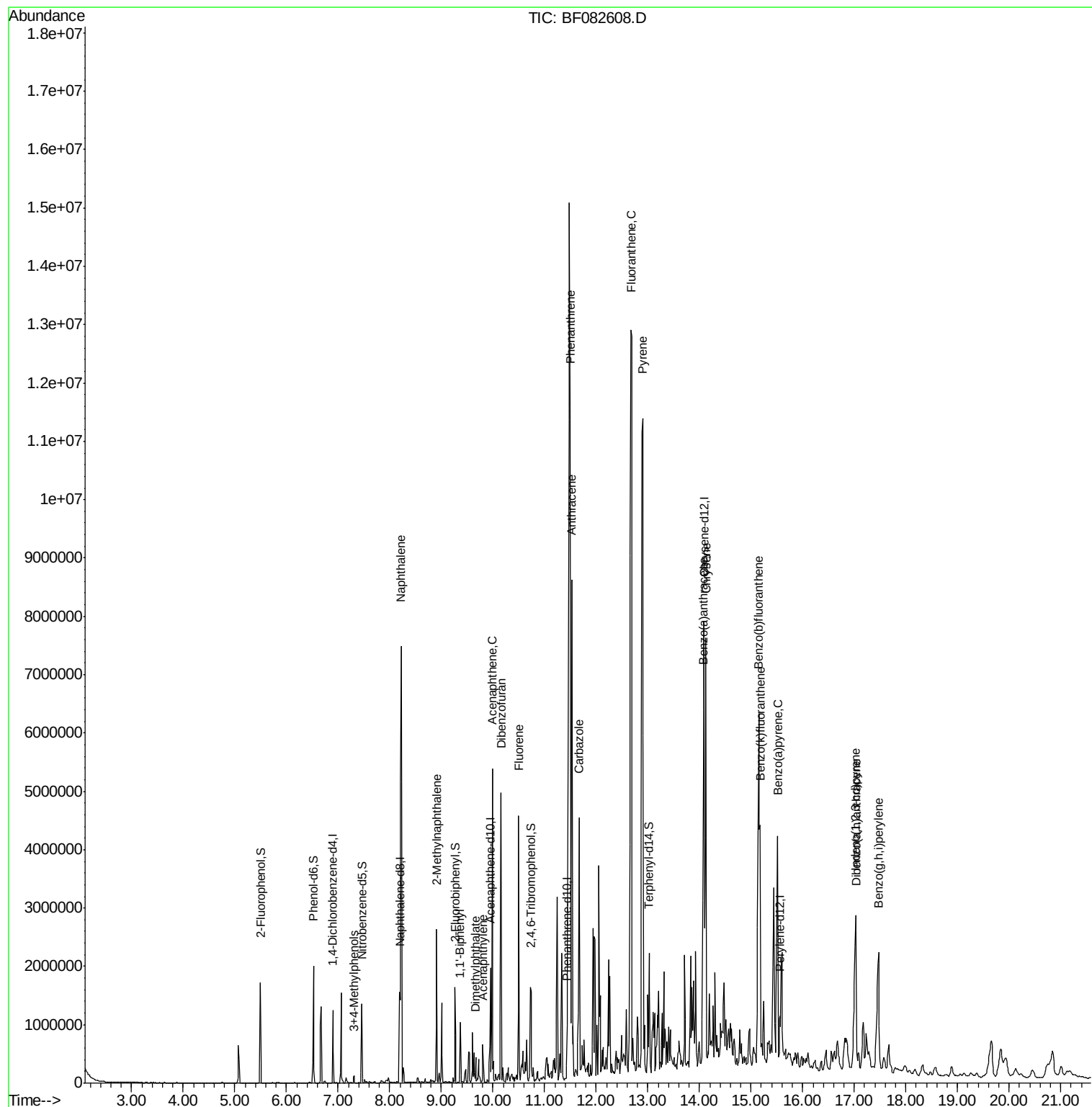
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
Data File : BF082608.D
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Misc :
ALS Vial : 26 Sample Multiplier: 1

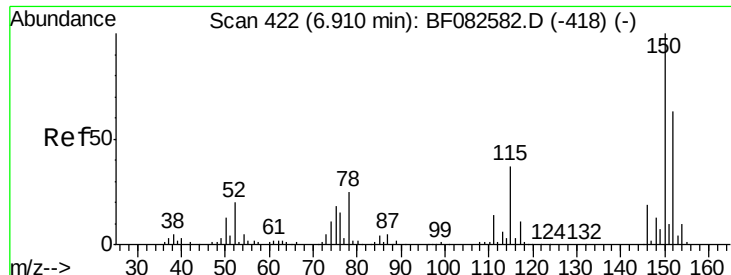
Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL

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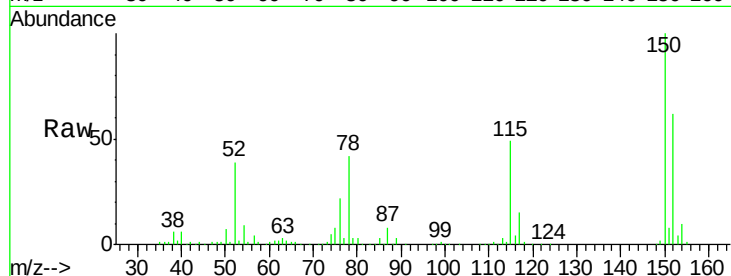




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

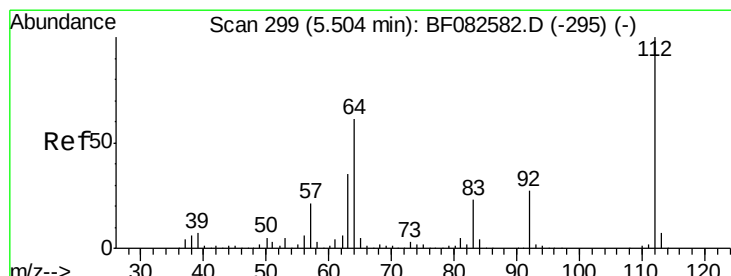
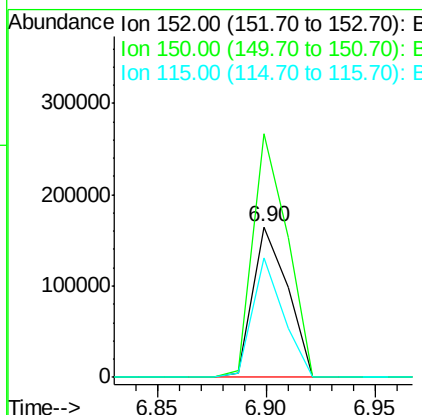
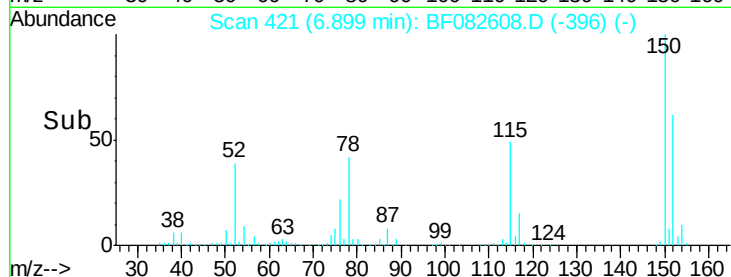
Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPL



Tgt Ion	Ratio	Resp	Lower	Upper
152	100	184031		
150	161.7	127.0	190.4	
115	79.6	47.0	70.6#	

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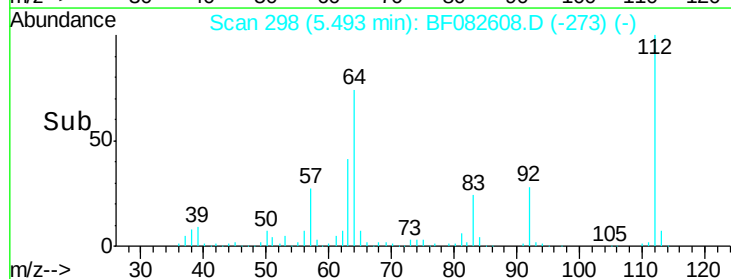
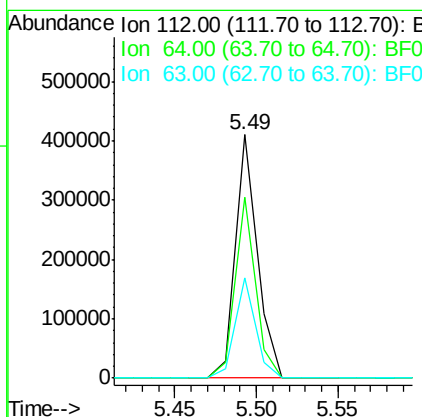
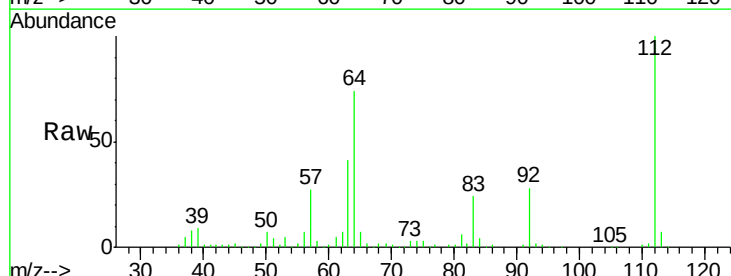
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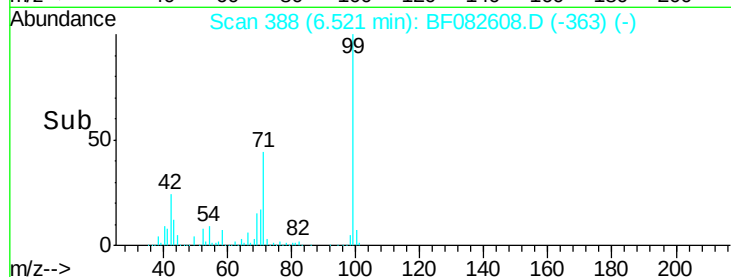
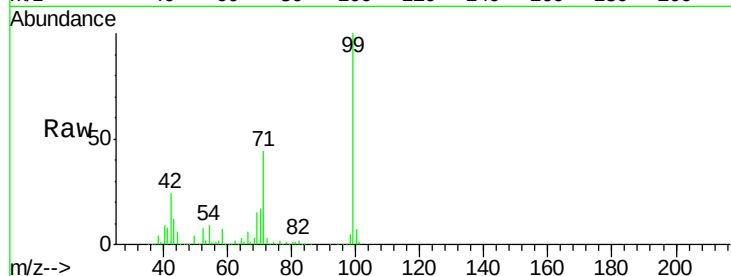
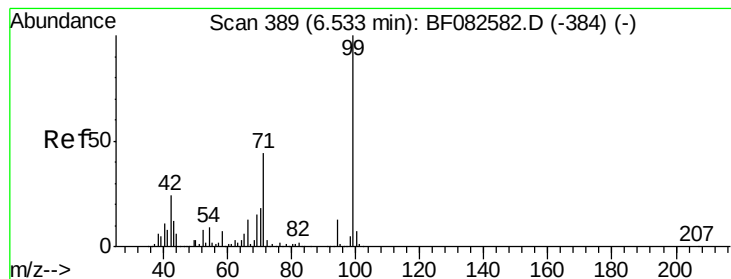


#5

2-Fluorophenol
Concen: 30.84 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	376814		
64	74.5	48.9	73.3#	
63	41.4	28.1	42.1	





#7

Phenol-d6

Concen: 32.73 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

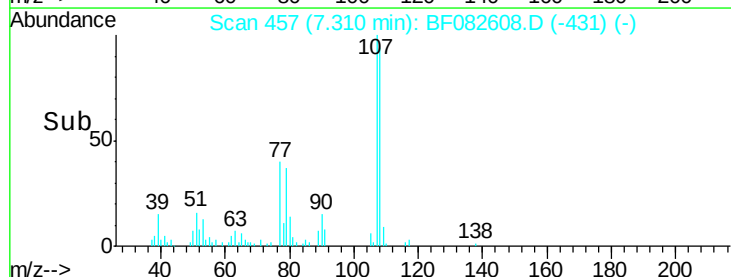
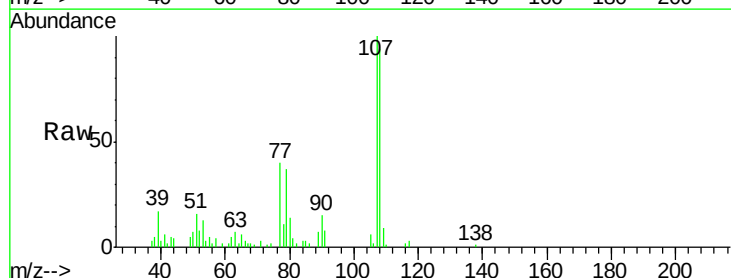
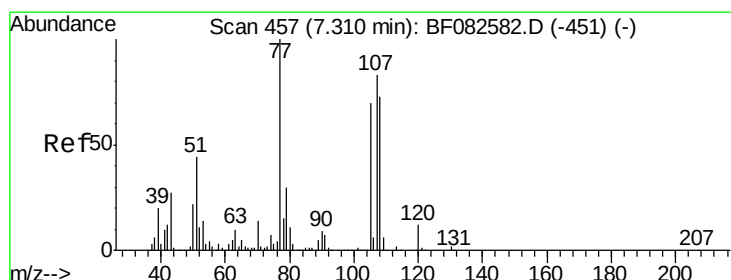
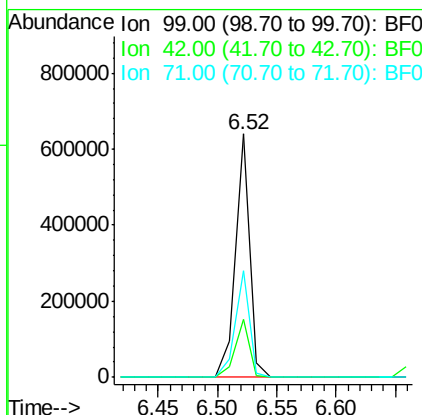
ClientSampleId :

S5-BOILERROOM2.5FTDEEPL

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Tgt Ion:	99	Resp:	531248
Ion	Ratio	Lower	Upper
99	100		
42	24.0	19.2	28.8
71	43.7	35.0	52.4



#20

3+4-Methylphenols

Concen: 2.27 ng

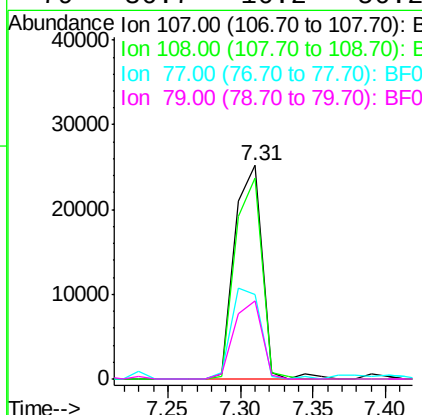
RT: 7.31 min Scan# 457

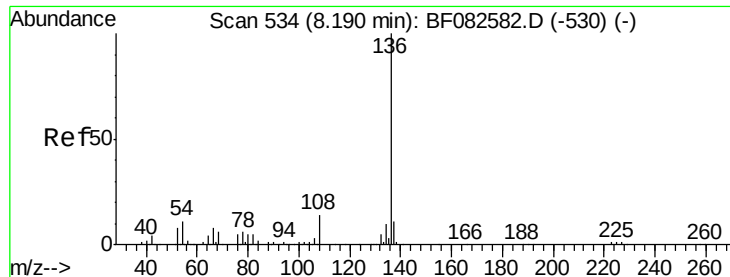
Delta R.T. -0.00 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Tgt Ion:	107	Resp:	33229
Ion	Ratio	Lower	Upper
107	100		
108	94.2	67.3	107.3
77	39.5	100.3	140.3#
79	36.7	16.2	56.2





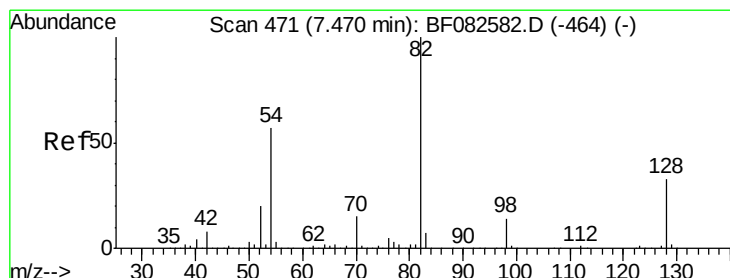
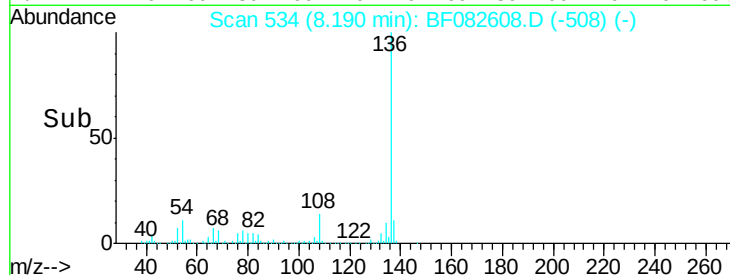
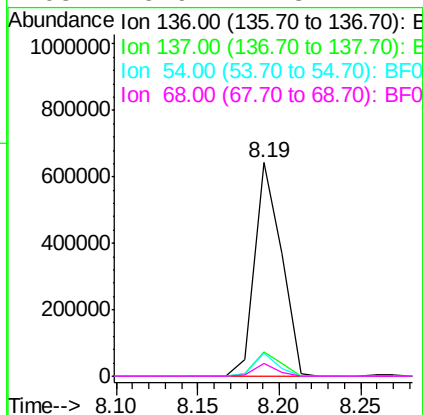
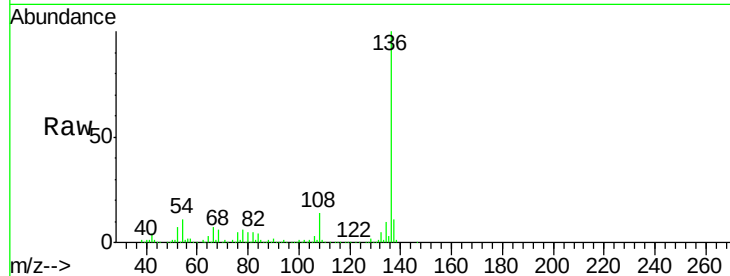
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 534
Delta R.T. -0.00 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		737216		
137	11.2	9.1	13.7		
54	10.7	9.1	13.7		
68	5.9	4.8	7.2		

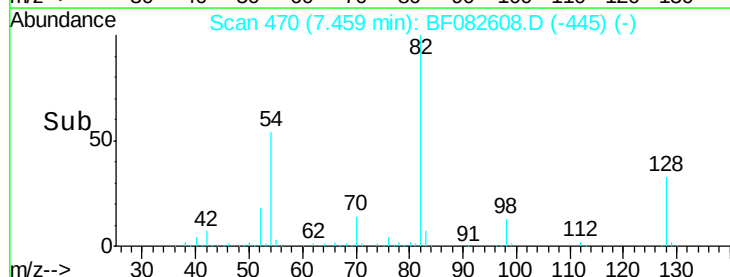
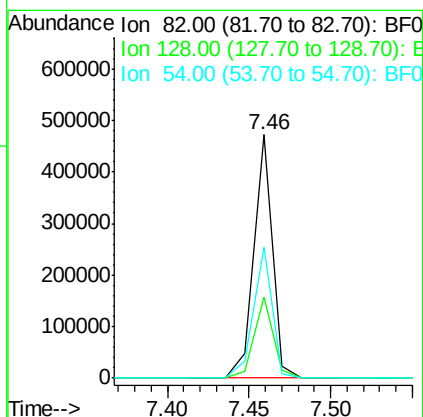
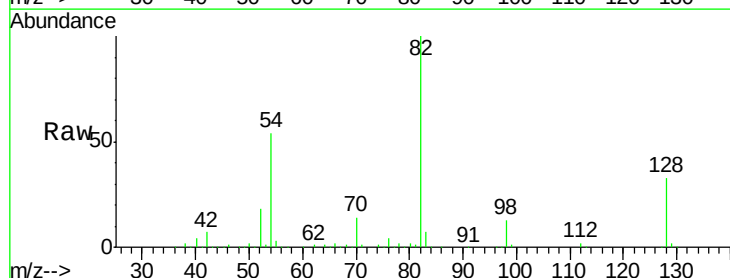
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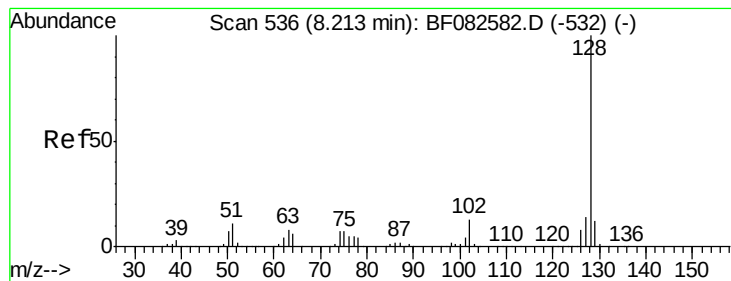
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#23
Nitrobenzene-d5
Concen: 20.75 ng
RT: 7.46 min Scan# 470
Delta R.T. -0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		374578		
128	33.1	26.8	40.2		
54	53.8	45.7	68.5		





#31

Naphthalene

Concen: 98.93 ng

RT: 8.22 min Scan# 537

Delta R.T. 0.01 min

Lab File: BF082608.D

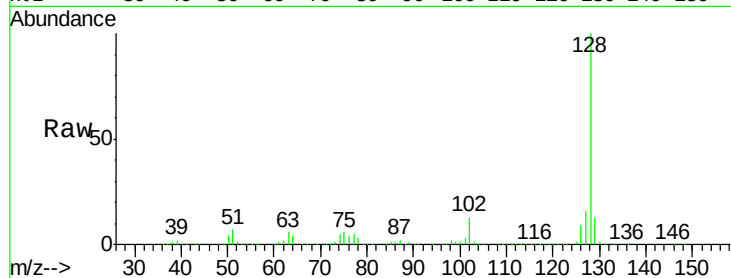
Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL



Tgt Ion:128 Resp: 3946521

Ion Ratio Lower Upper

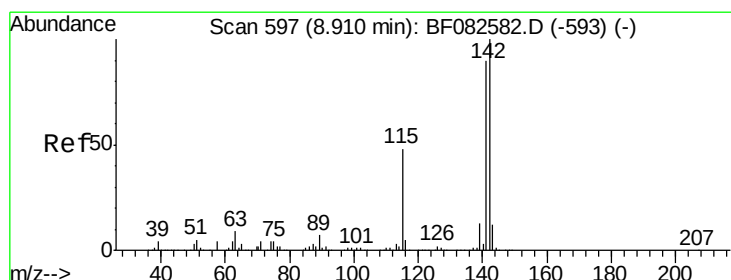
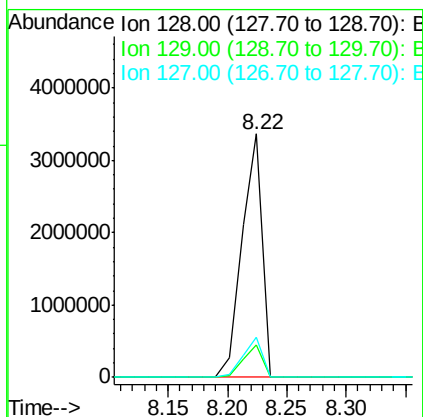
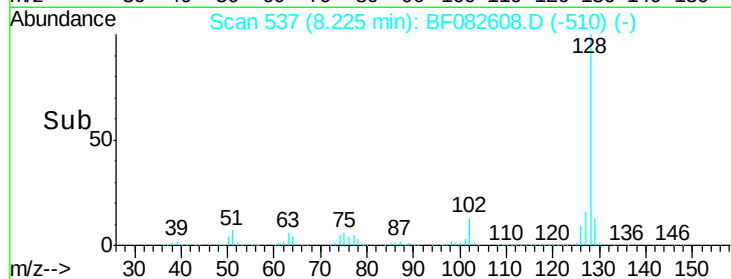
128 100

129 13.2 9.5 14.3

127 16.4 11.4 17.0

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#37

2-Methylnaphthalene

Concen: 27.07 ng

RT: 8.91 min Scan# 597

Delta R.T. -0.00 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

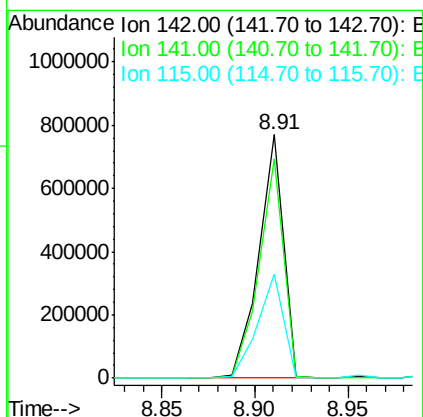
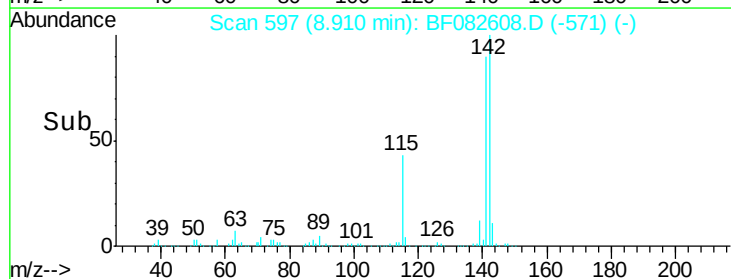
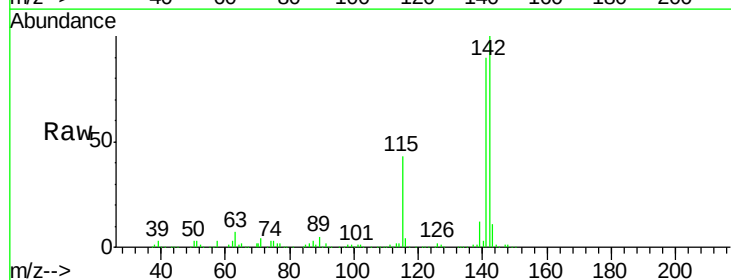
Tgt Ion:142 Resp: 699840

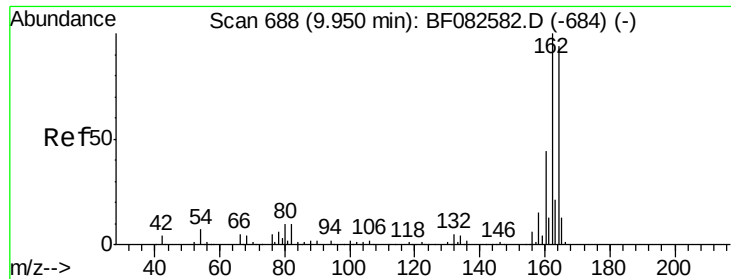
Ion Ratio Lower Upper

142 100

141 89.9 72.3 108.5

115 42.9 38.1 57.1





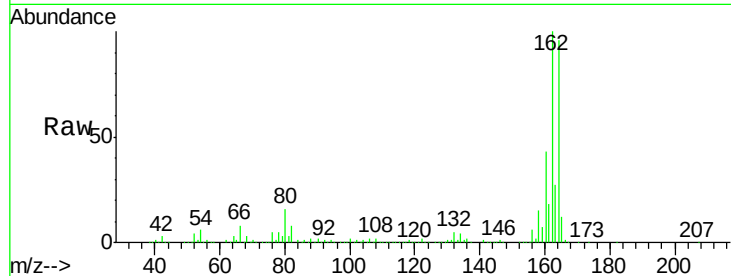
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.95 min Scan# 688
 Delta R.T. -0.00 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPL

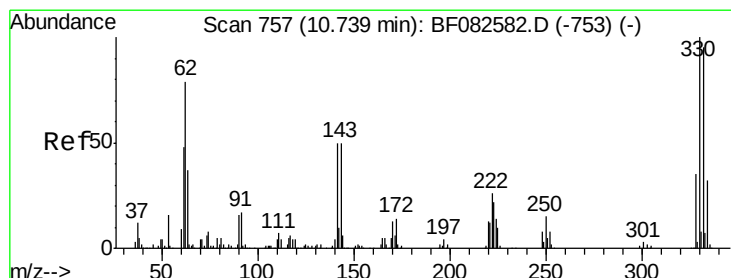
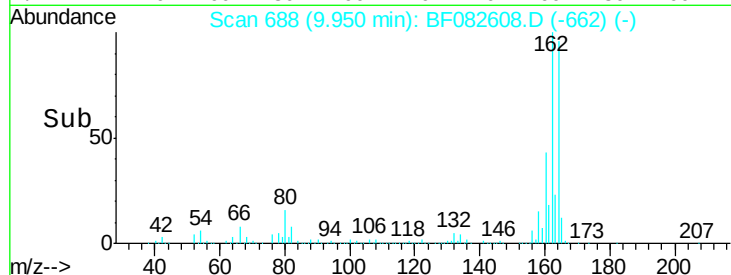
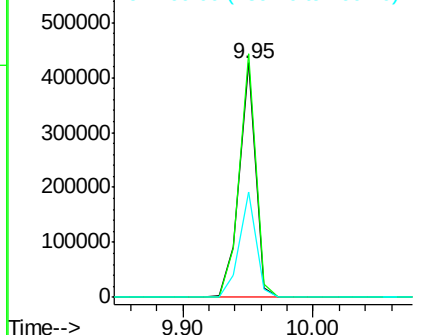
Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.0	84.9	127.3	
160	45.0	37.5	56.3	

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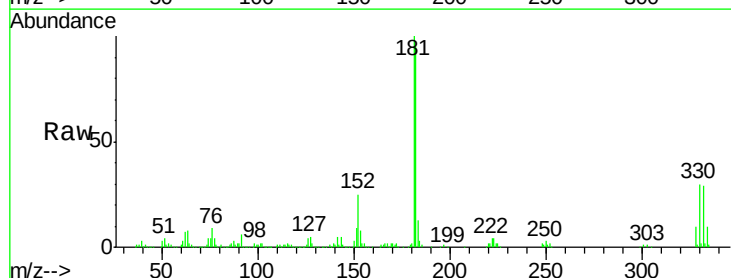


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

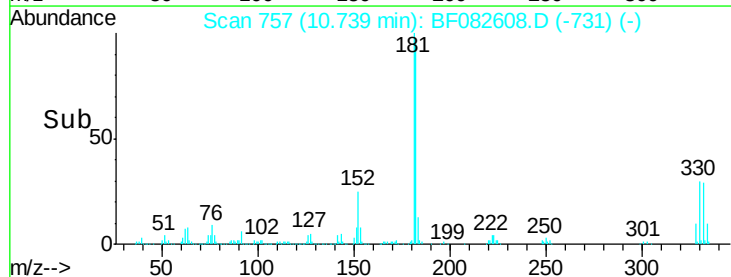
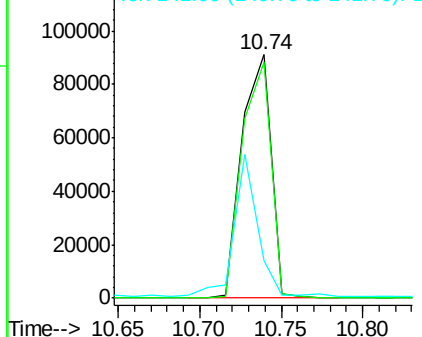


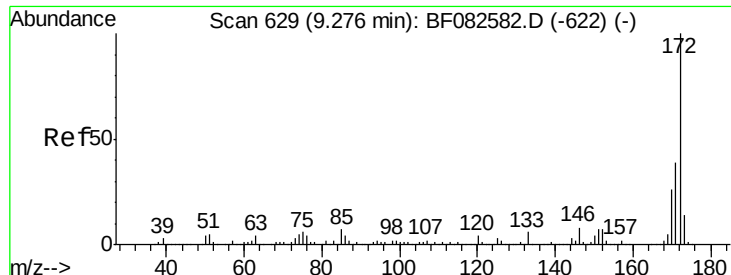
#41
 2,4,6-Tribromophenol
 Concen: 27.58 ng
 RT: 10.74 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.6	76.6	114.8	
141	47.7	41.2	61.8	



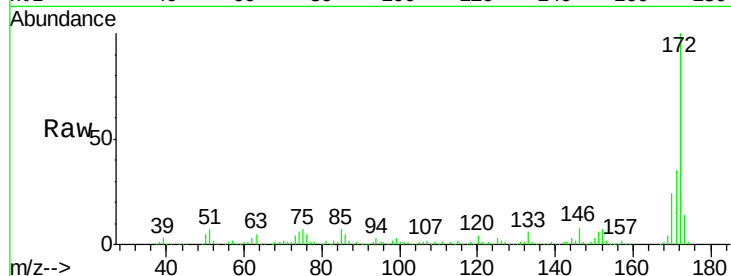
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





#44
2-Fluorobiphenyl
Concen: 21.13 ng
RT: 9.26 min Scan# 628
Delta R.T. -0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

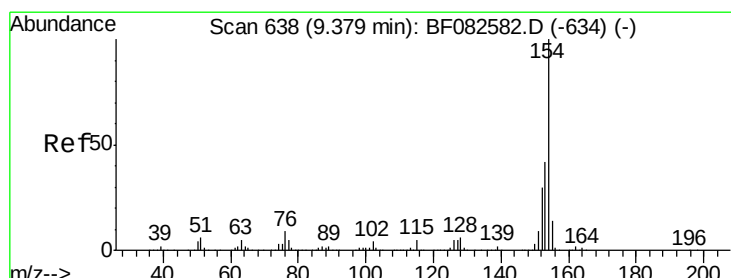
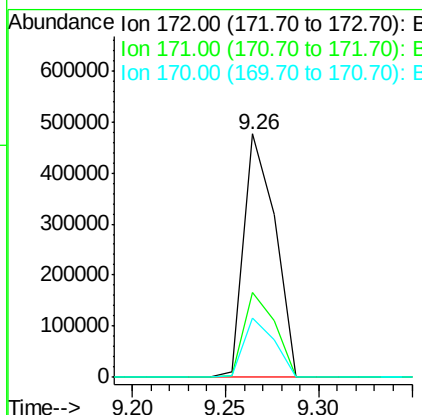
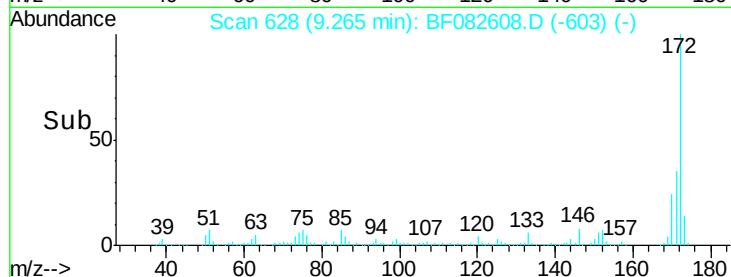
Instrument :
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S5-BOILERROOM2.5FTDEEPDL



Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.1	30.8	46.2
170	24.3	21.2	31.8

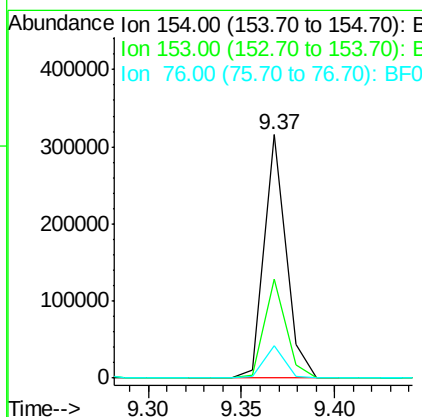
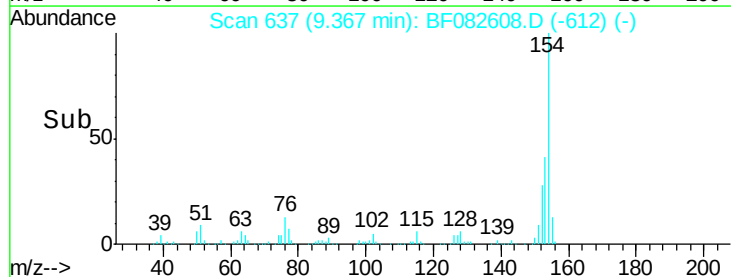
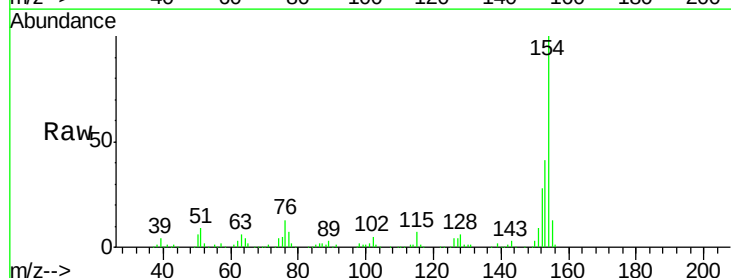
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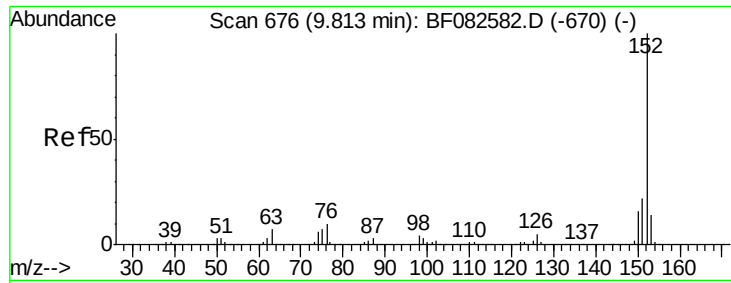
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#45
1,1'-Biphenyl
Concen: 8.10 ng
RT: 9.37 min Scan# 637
Delta R.T. -0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	40.8	22.0	62.0
76	13.2	0.0	29.0





#48

Acenaphthylene

Concen: 6.20 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.01 min

Lab File: BF082608.D

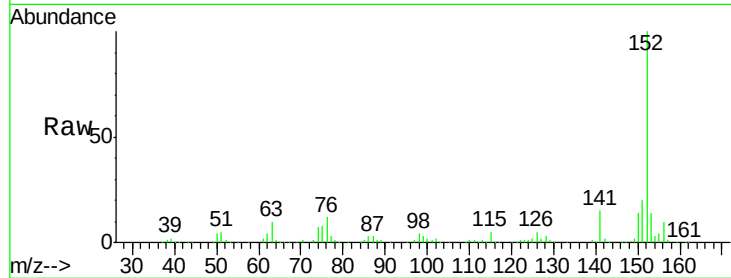
Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

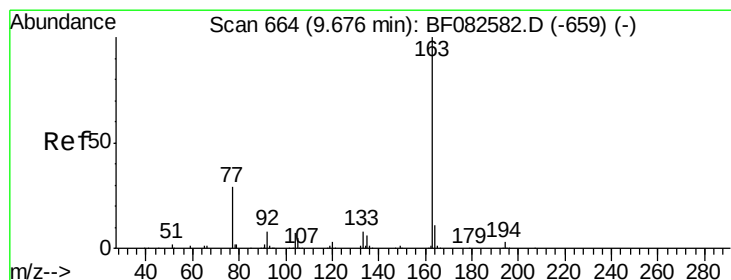
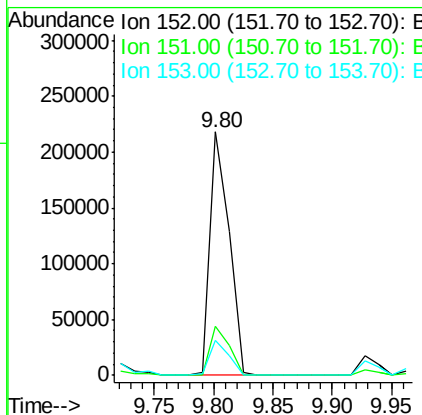
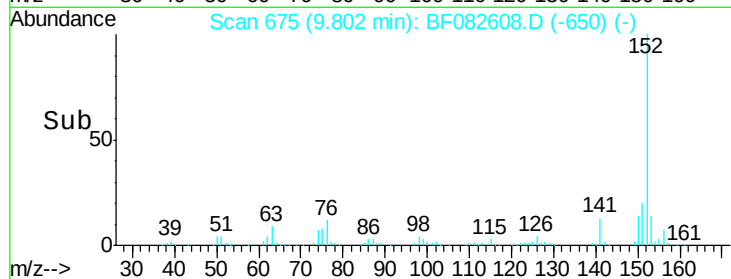
S5-BOILERROOM2.5FTDEEPDL



Tgt Ion	Ratio	Resp	Lower	Upper
152	100	243295		
151	20.1	17.3	25.9	
153	14.1	11.3	16.9	

Manual Integrations
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#49

Dimethylphthalate

Concen: 4.77 ng

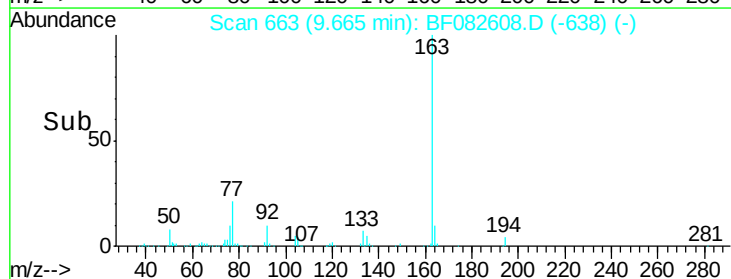
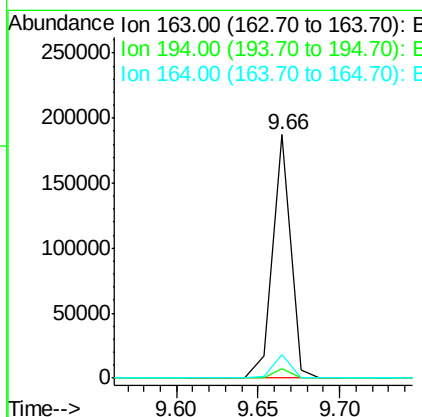
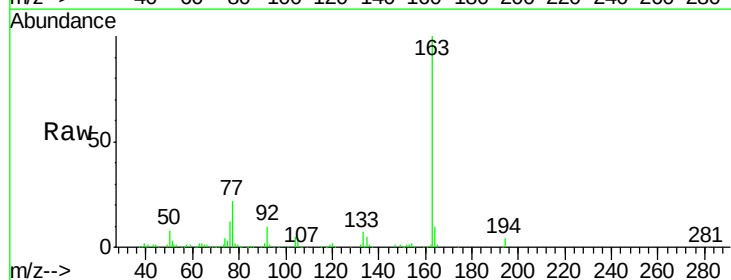
RT: 9.66 min Scan# 663

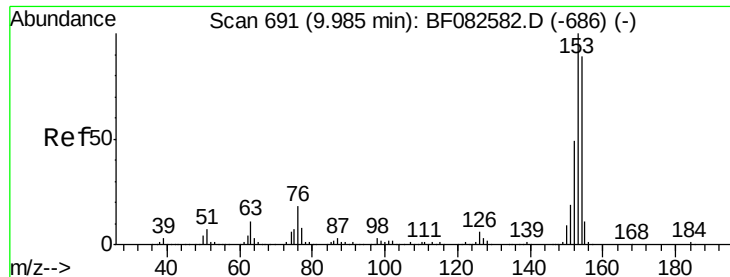
Delta R.T. -0.01 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	144760		
194	3.7	2.6	4.0	
164	9.7	8.7	13.1	





#51

Acenaphthene

Concen: 41.85 ng

RT: 9.98 min Scan# 691

Delta R.T. -0.00 min

Lab File: BF082608.D

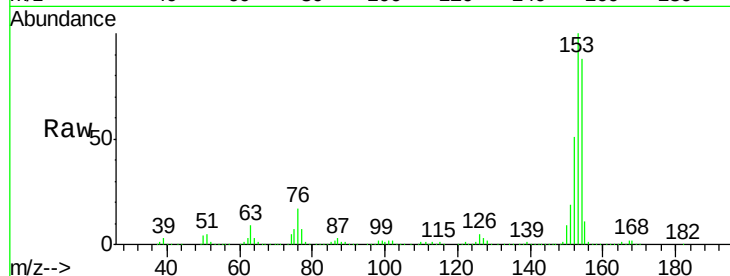
Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL



Tgt Ion:154 Resp: 1042255

Ion Ratio Lower Upper

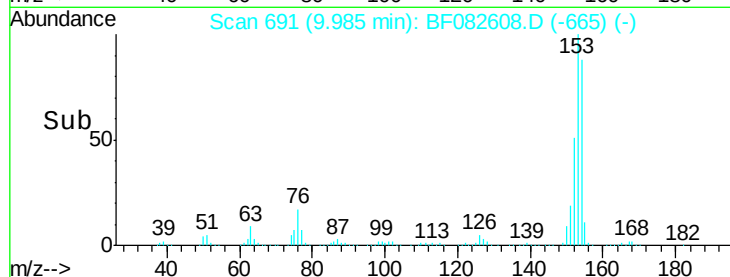
154 100

153 113.1 90.1 135.1

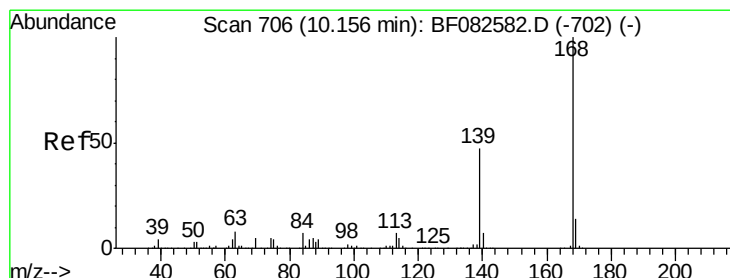
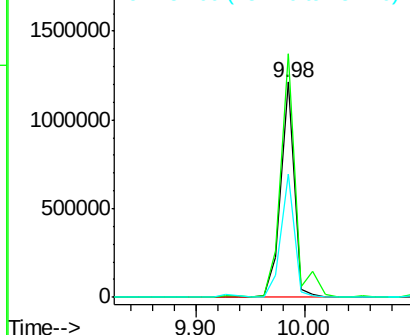
152 57.2 44.3 66.5

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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

Dibenzofuran

Concen: 45.81 ng

RT: 10.16 min Scan# 706

Delta R.T. -0.00 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

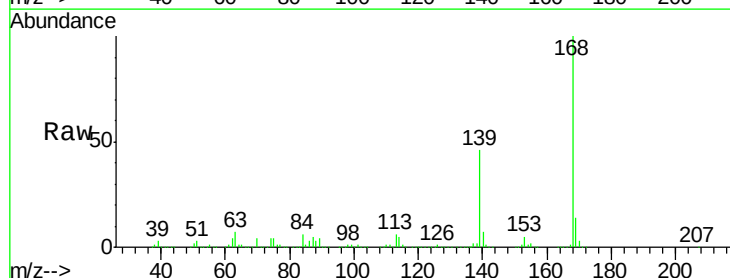
Tgt Ion:168 Resp: 1547949

Ion Ratio Lower Upper

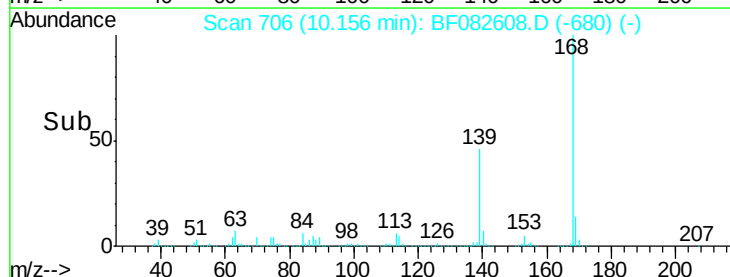
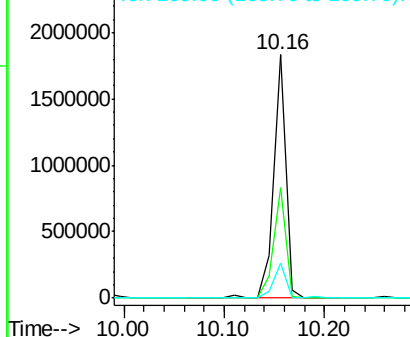
168 100

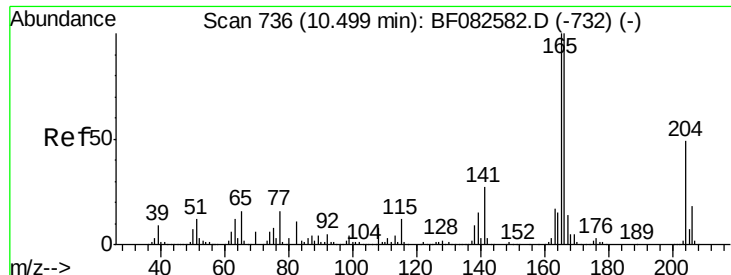
139 45.5 37.8 56.6

169 14.4 11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





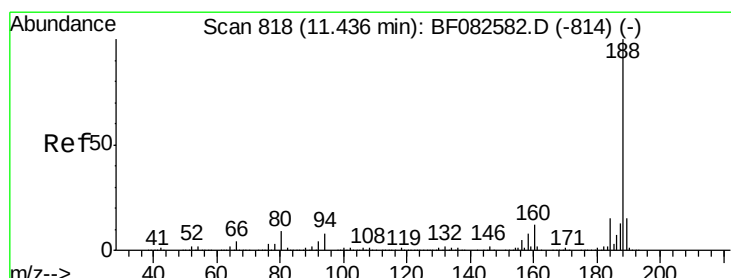
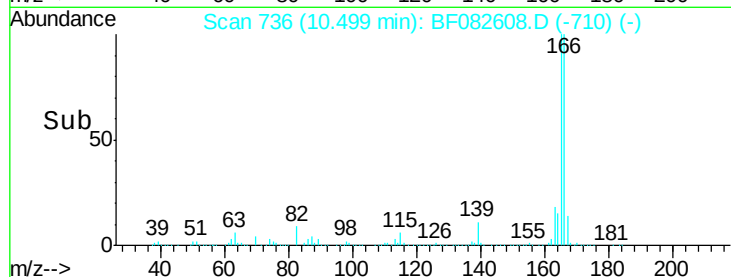
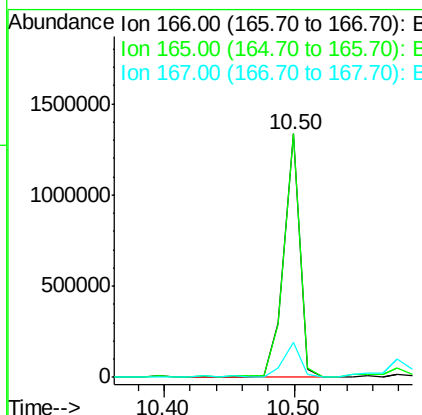
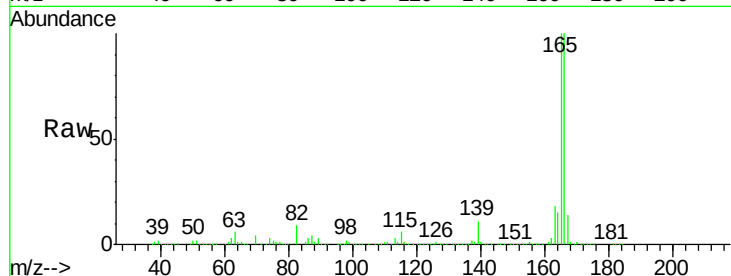
#57
Fluorene
 Concen: 42.73 ng
 RT: 10.50 min Scan# 736
 Delta R.T. -0.00 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPL

Tgt Ion:166 Resp: 1164627
 Ion Ratio Lower Upper
 166 100
 165 99.9 80.2 120.4
 167 14.2 11.2 16.8

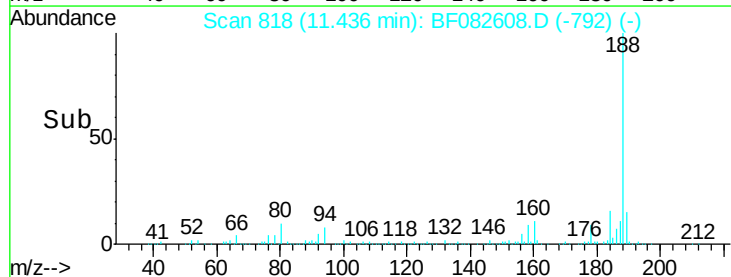
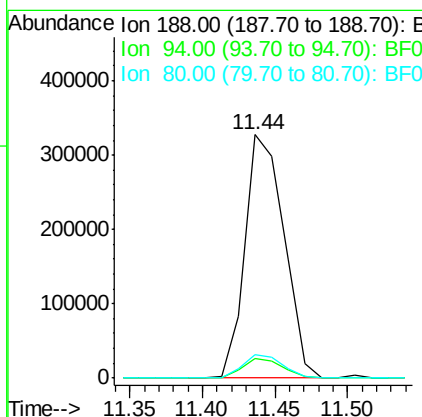
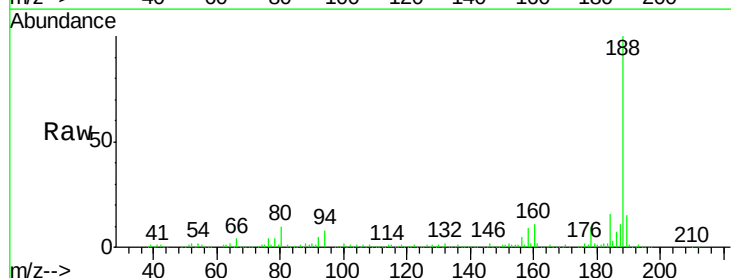
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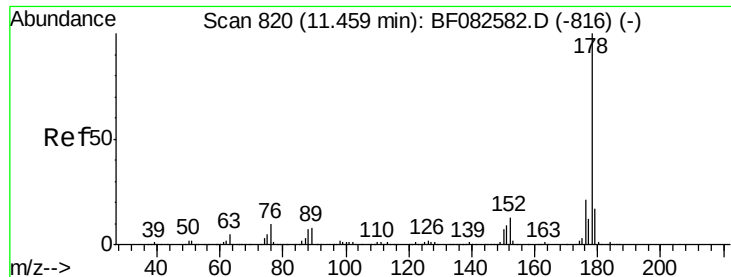
Mmdadoda
 11/2/2015 4:32:24 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Tgt Ion:188 Resp: 610414
 Ion Ratio Lower Upper
 188 100
 94 8.1 6.1 9.1
 80 9.7 7.0 10.6





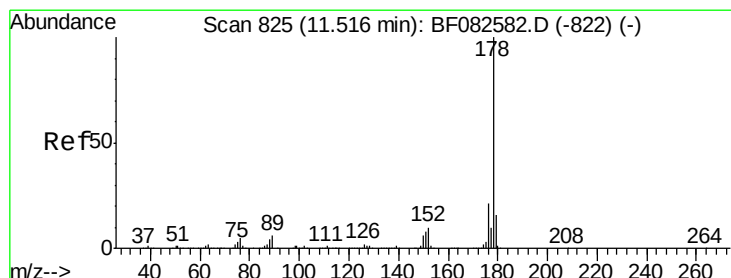
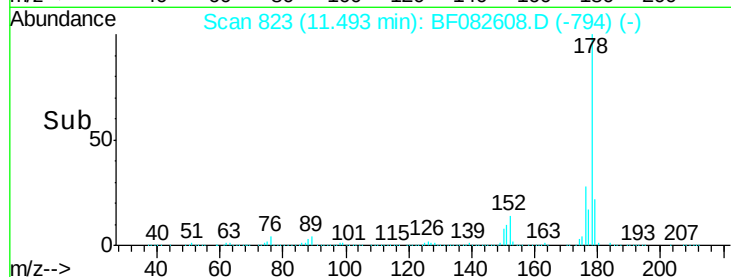
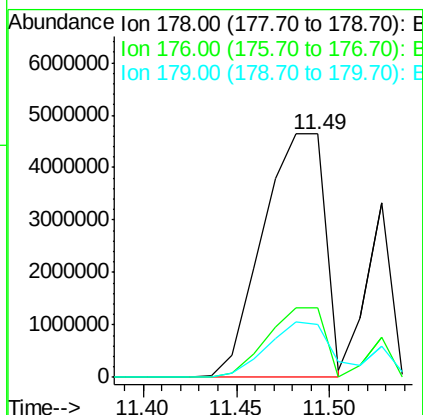
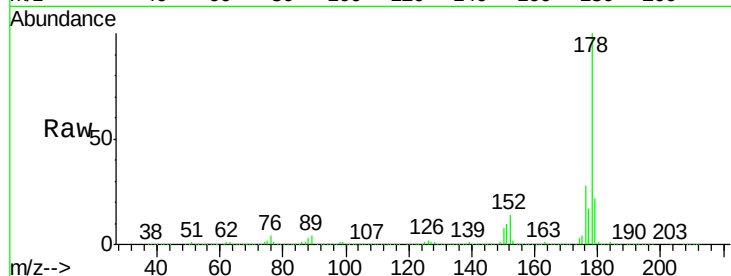
#70
Phenanthrene
Concen: 313.71 ng m
RT: 11.49 min Scan# 823
Delta R.T. 0.03 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPL

Tgt Ion:178 Resp:10800796
Ion Ratio Lower Upper
178 100
176 28.3 17.0 25.4#
179 21.6 13.4 20.0#

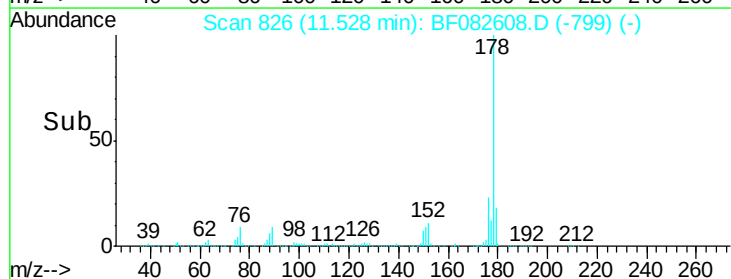
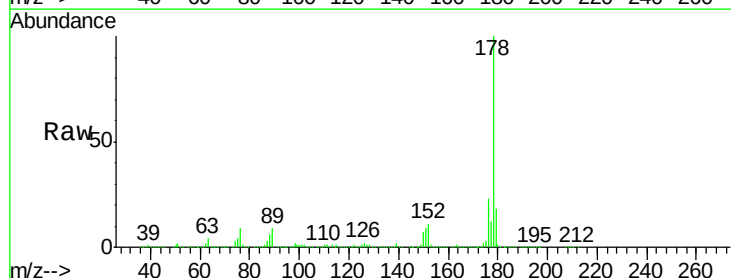
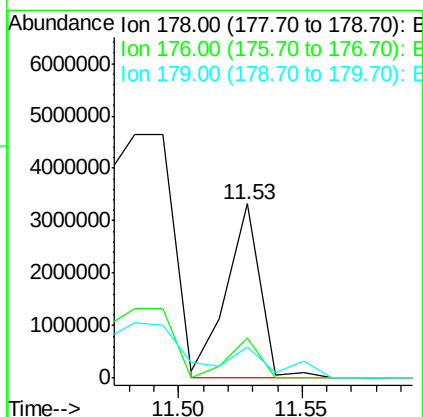
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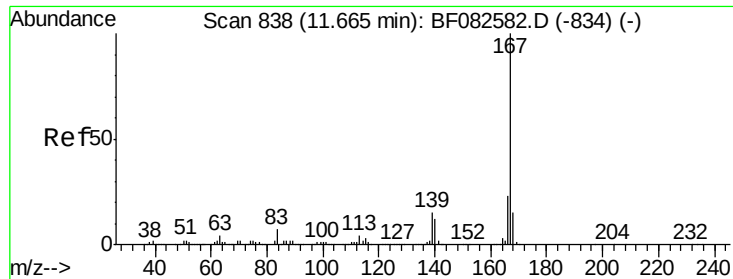
Mmdadoda
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#71
Anthracene
Concen: 91.29 ng m
RT: 11.53 min Scan# 826
Delta R.T. 0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion:178 Resp: 3164475
Ion Ratio Lower Upper
178 100
176 23.1 16.5 24.7
179 18.2 13.2 19.8





#72

Carbazole

Concen: 82.59 ng

RT: 11.66 min Scan# 838

Delta R.T. -0.00 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

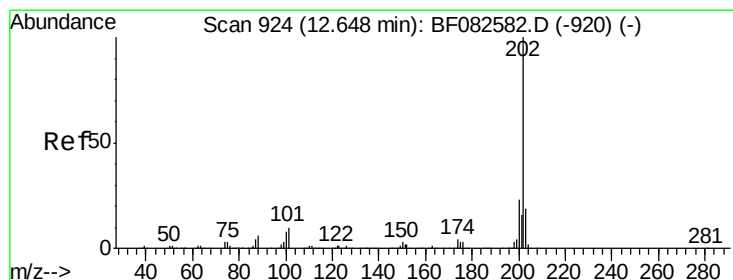
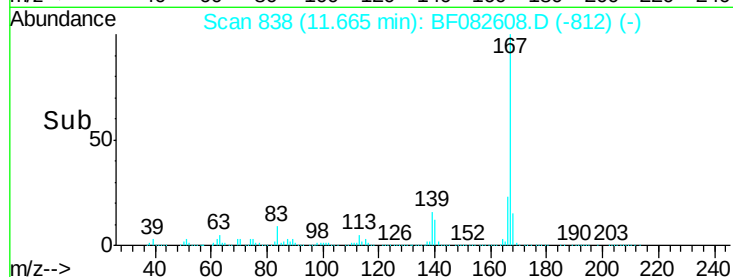
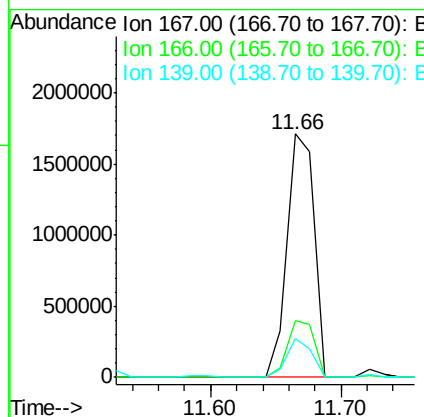
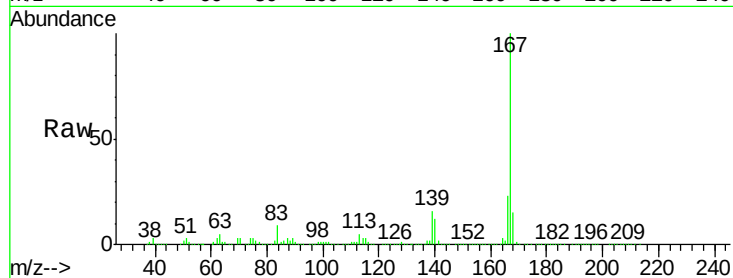
S5-BOILERROOM2.5FTDEEPDL

Manual Integrations
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Tgt Ion:	167	Resp:	2493831
Ion	Ratio	Lower	Upper
167	100		
166	23.5	18.7	28.1
139	16.0	11.8	17.6



#74

Fluoranthene

Concen: 276.14 ng

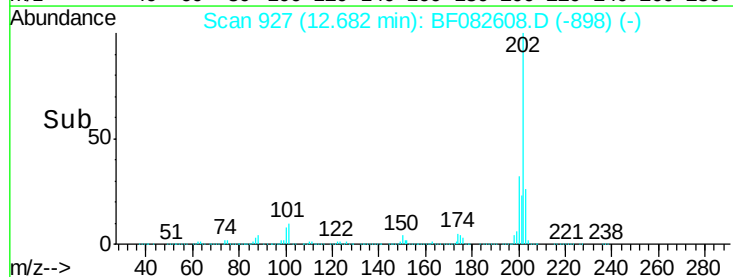
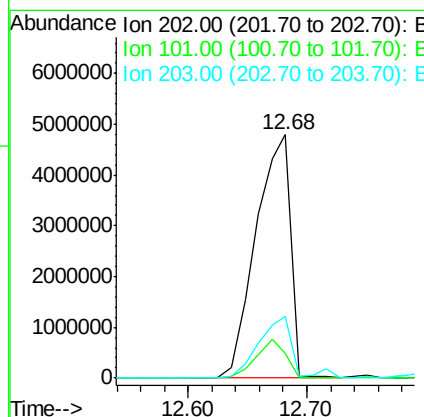
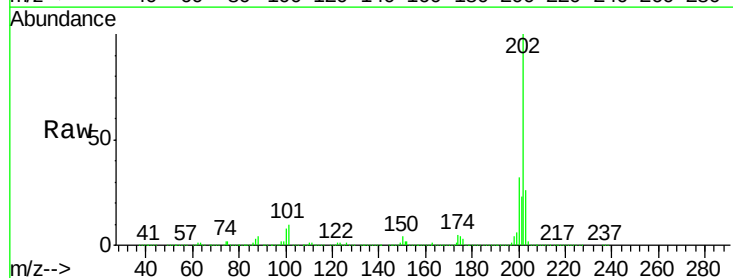
RT: 12.68 min Scan# 927

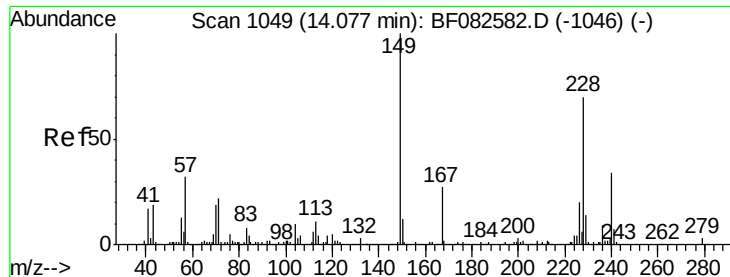
Delta R.T. 0.03 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Tgt Ion:	202	Resp:	9718871
Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.5
203	25.6	0.0	38.5





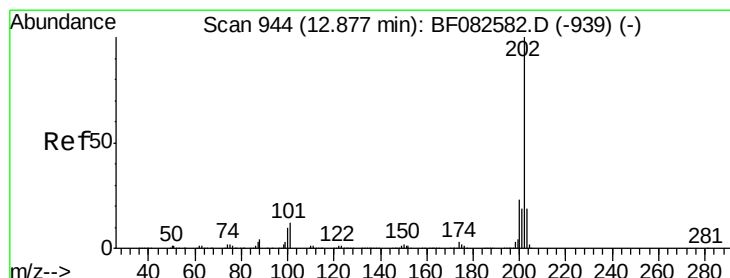
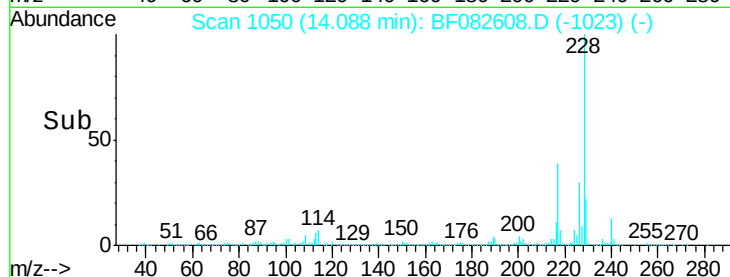
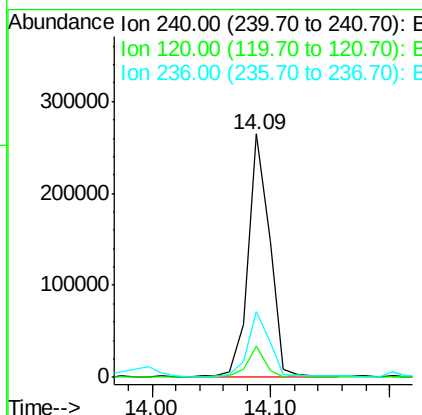
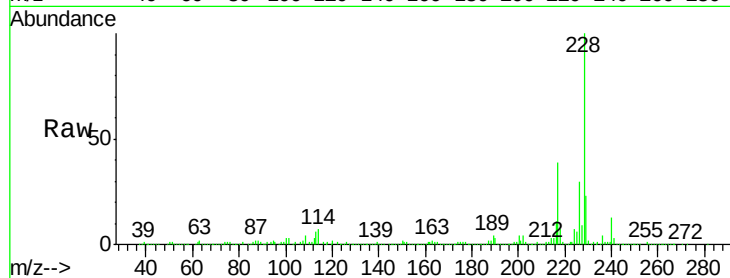
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.09 min Scan# 1050
Delta R.T. 0.01 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	337798		
120	12.6	10.9	16.3	
236	27.1	21.6	32.4	

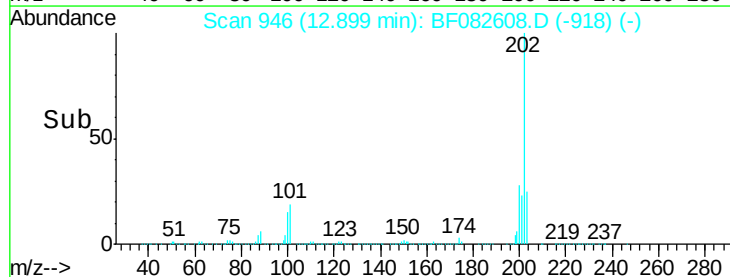
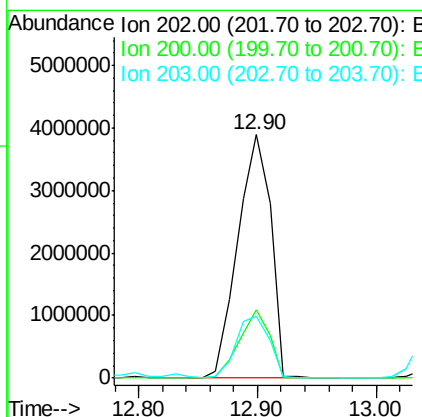
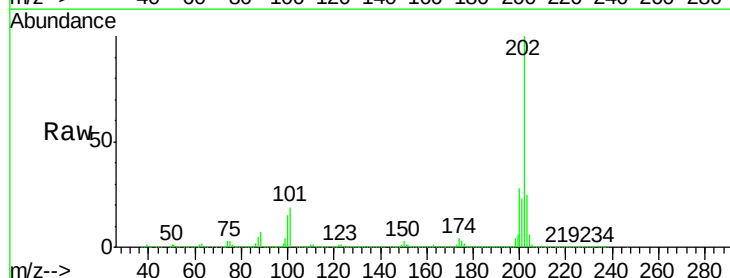
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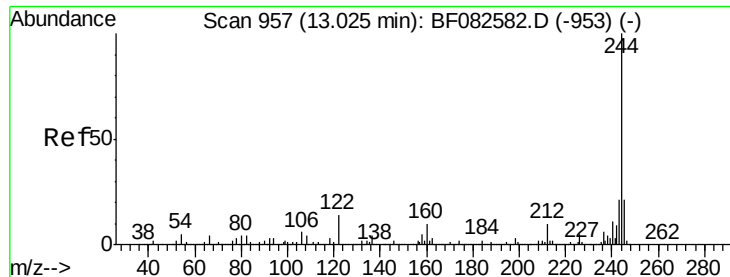
Mmdadoda
11/2/2015 4:32:24 PM



#77
Pyrene
Concen: 299.83 ng
RT: 12.90 min Scan# 946
Delta R.T. 0.02 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	7499856		
200	27.8	18.7	28.1	
203	25.5	14.8	22.2	





#78

Terphenyl-d14

Concen: 27.40 ng

RT: 13.02 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF082608.D

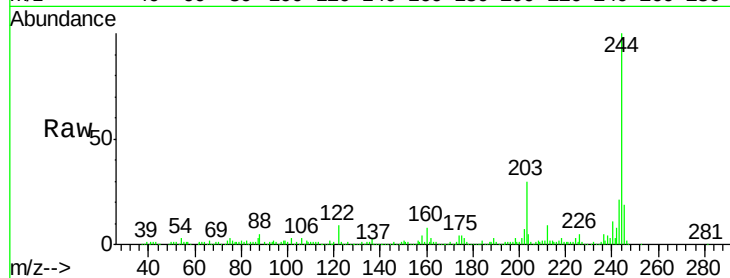
Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

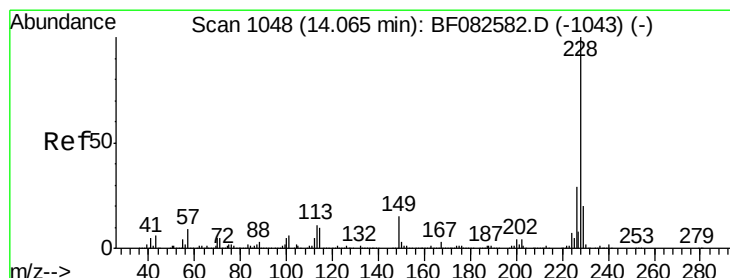
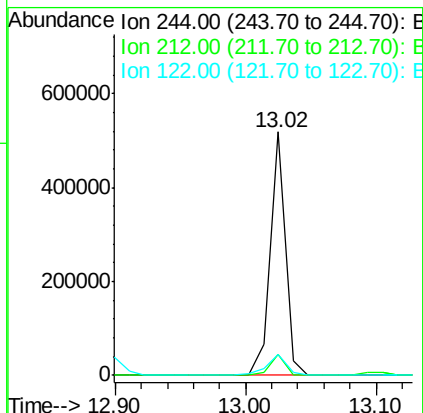
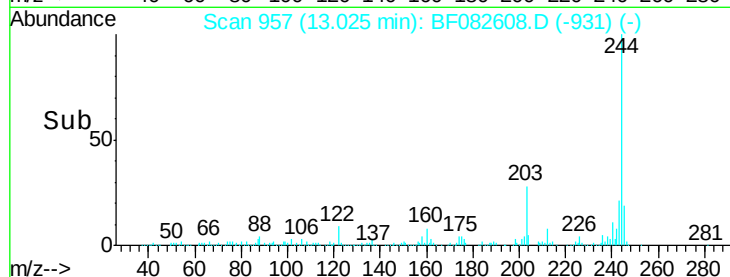
S5-BOILERROOM2.5FTDEEPL



Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.7	7.6	11.4	
122	8.8	11.3	16.9	

Manual Integrations
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11/2/2015 4:32:24 PM



#80

Benzo(a)anthracene

Concen: 184.81 ng

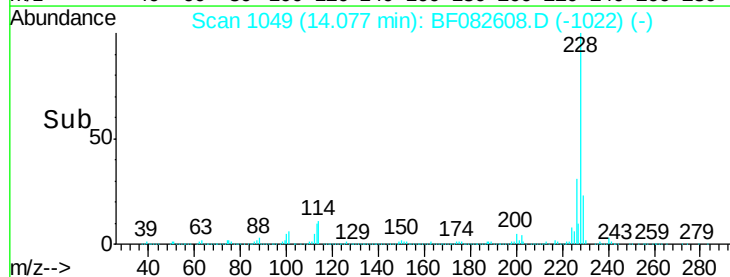
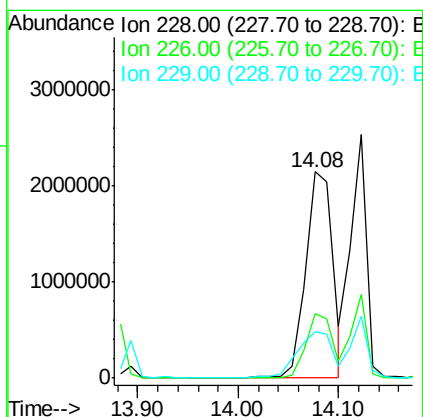
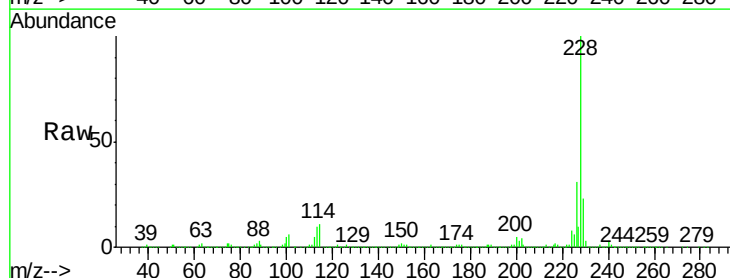
RT: 14.08 min Scan# 1049

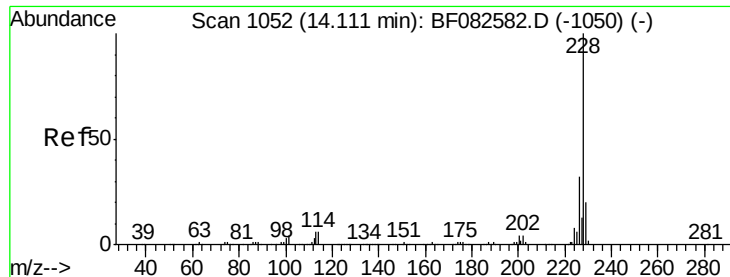
Delta R.T. 0.01 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	31.2	23.4	35.2	
229	22.8	16.3	24.5	





#82

Chrysene

Concen: 141.18 ng m

RT: 14.12 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

S5-BOILERROOM2.5FTDEEPL

Tgt Ion:228 Resp: 2745865

Ion Ratio Lower Upper

228 100

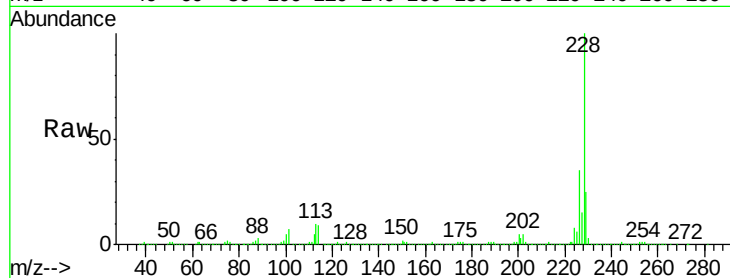
226 34.5 25.5 38.3

229 25.4 16.3 24.5#

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Mmdadoda

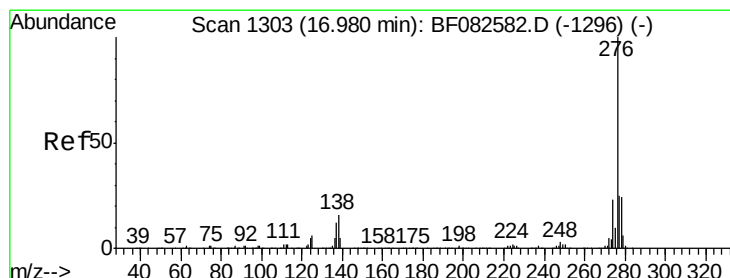
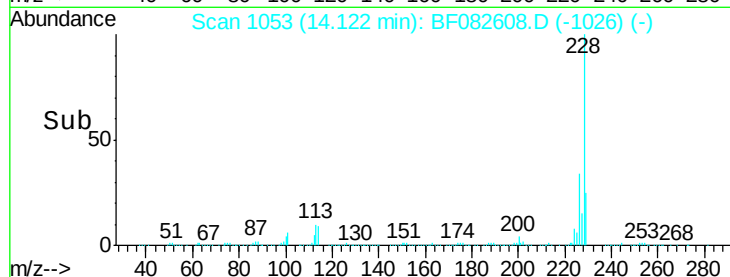
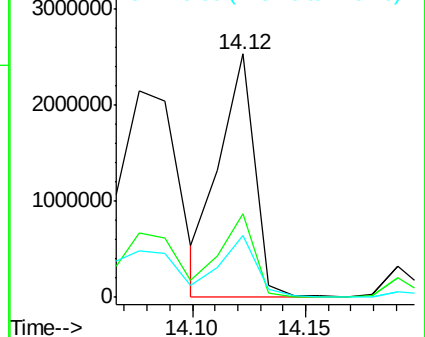
11/2/2015 4:32:24 PM



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: 156.87 ng

RT: 17.03 min Scan# 1307

Delta R.T. 0.05 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

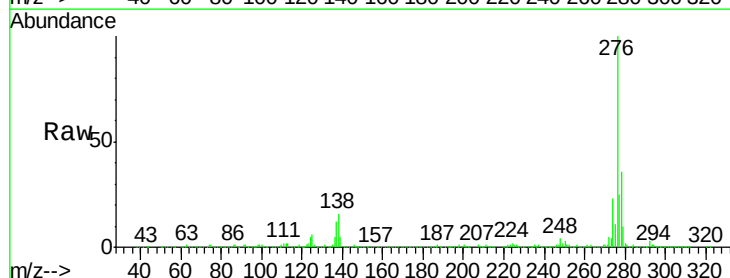
Tgt Ion:276 Resp: 2517789

Ion Ratio Lower Upper

276 100

138 14.9 15.3 22.9#

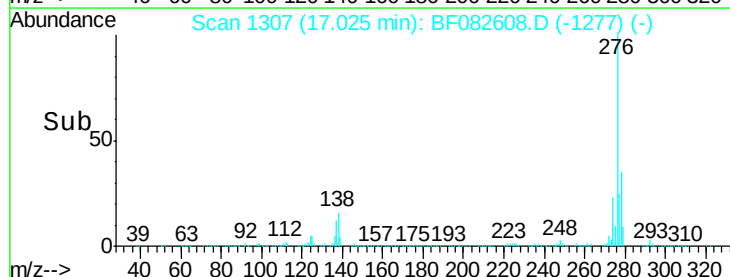
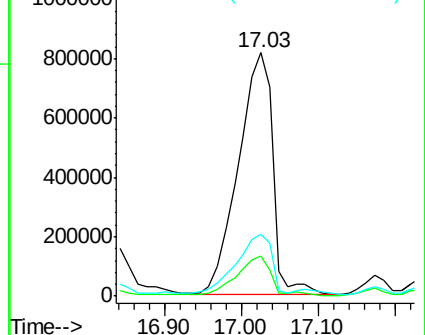
277 25.3 20.2 30.4

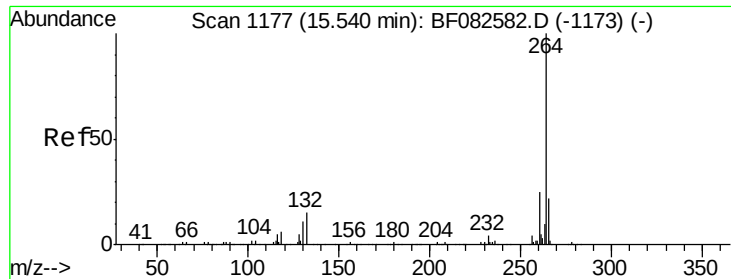


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





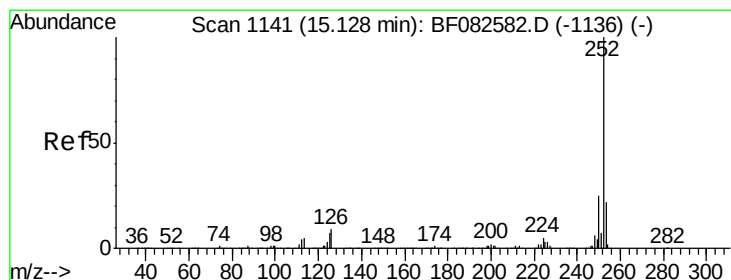
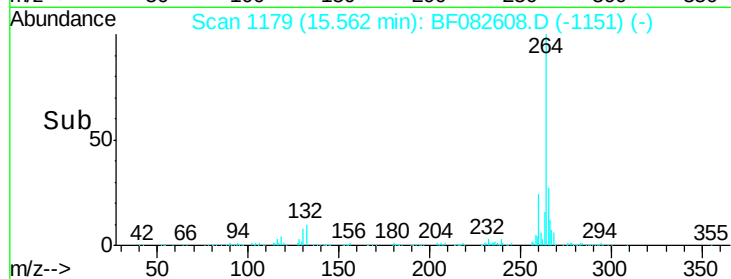
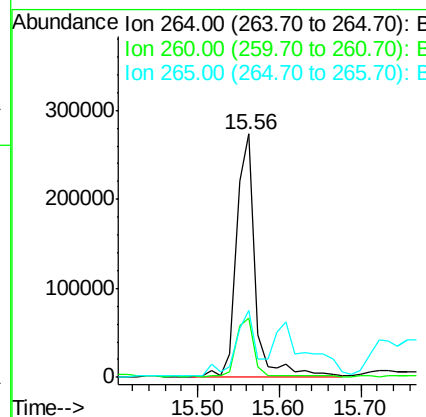
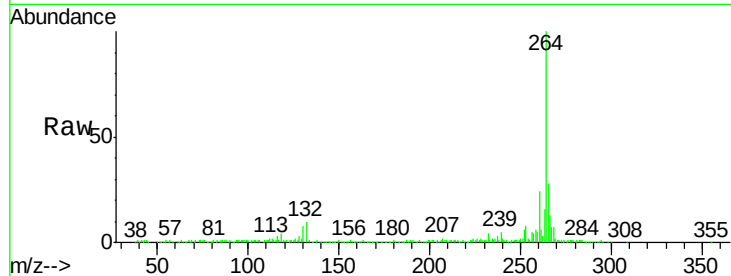
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.56 min Scan# 1179
 Delta R.T. 0.02 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.6
265	27.6	17.4	26.0#

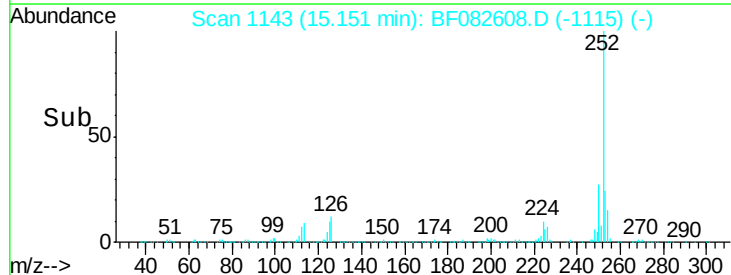
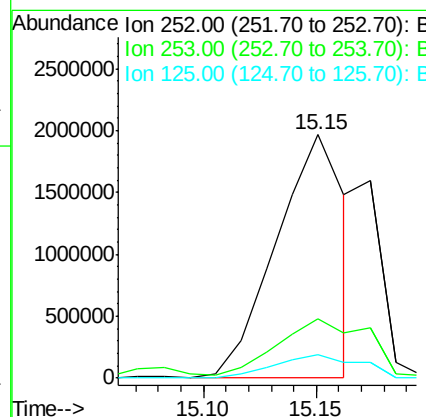
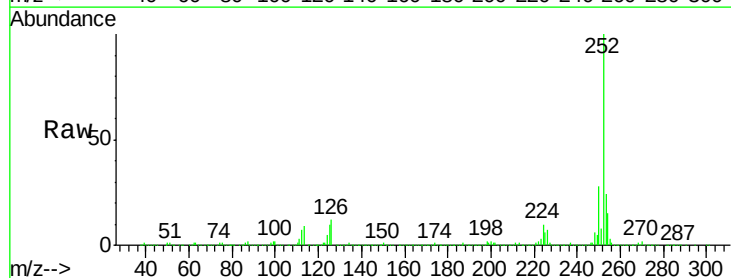
Manual Integrations
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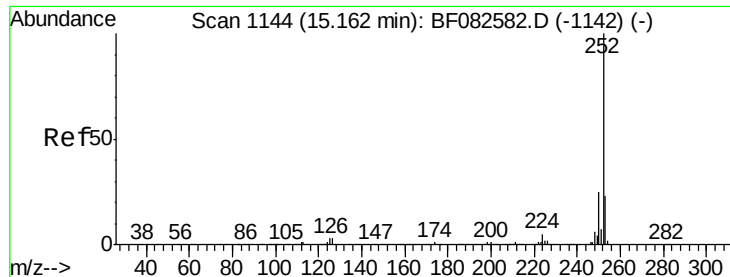
Mmdadoda
 11/2/2015 4:32:24 PM



#87
 Benzo(b)fluoranthene
 Concen: 140.21 ng m
 RT: 15.15 min Scan# 1143
 Delta R.T. 0.02 min
 Lab File: BF082608.D
 Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.8	26.8
125	9.9	5.4	8.2#





#88

Benzo(k)fluoranthene

Concen: 53.79 ng m

RT: 15.17 min Scan# 1145

Delta R.T. 0.01 min

Lab File: BF082608.D

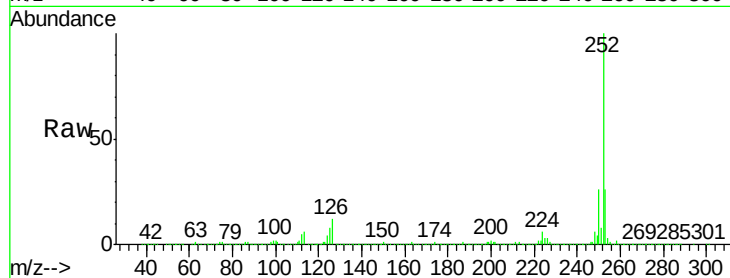
Acq: 31 Oct 2015 8:48

Instrument :

BNA_F

ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL



Tgt Ion:252 Resp: 1233716

Ion Ratio Lower Upper

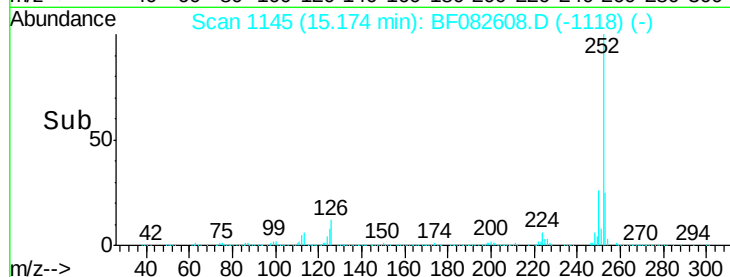
252 100

253 25.7 17.9 26.9

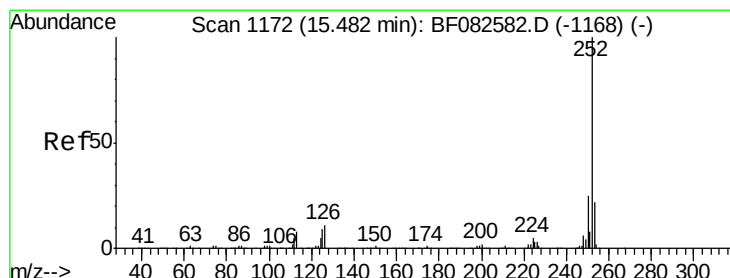
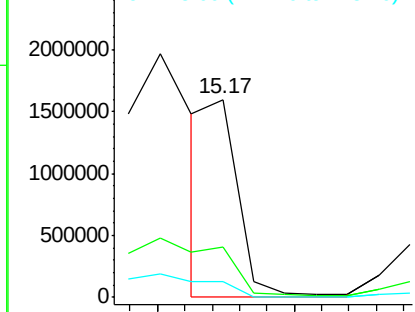
125 7.8 3.5 5.3#

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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: 119.31 ng m

RT: 15.52 min Scan# 1175

Delta R.T. 0.03 min

Lab File: BF082608.D

Acq: 31 Oct 2015 8:48

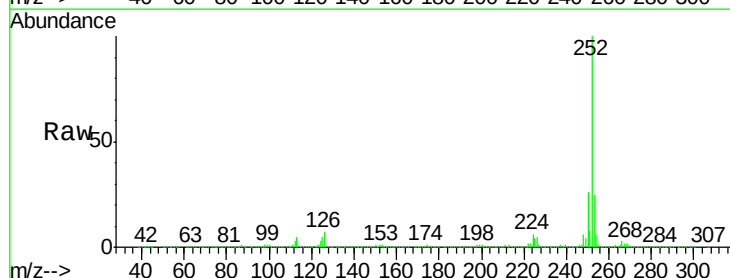
Tgt Ion:252 Resp: 2828914

Ion Ratio Lower Upper

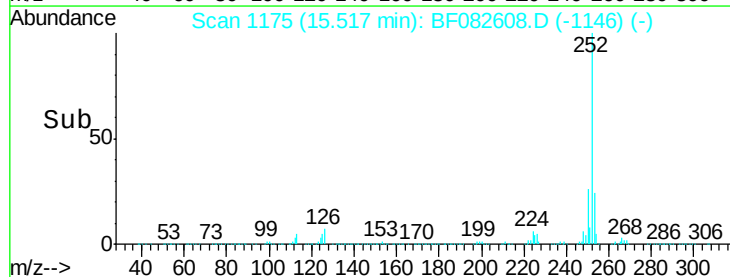
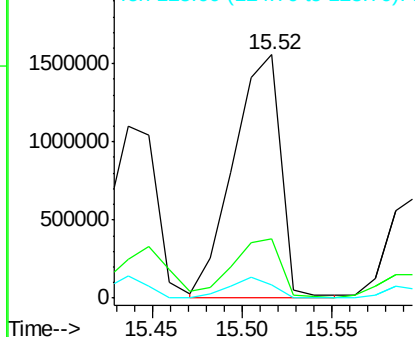
252 100

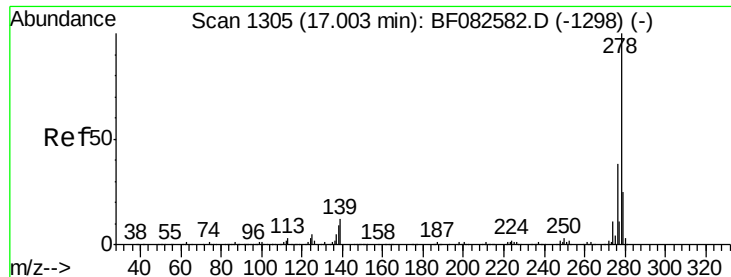
253 24.6 17.3 25.9

125 5.3 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





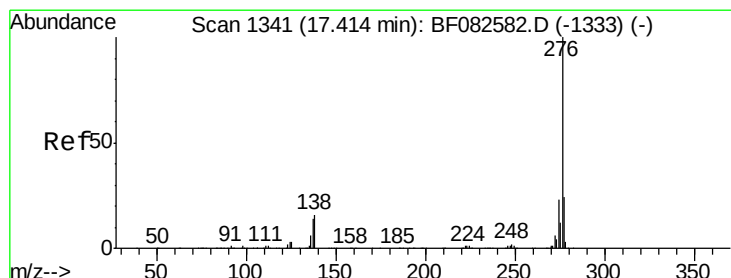
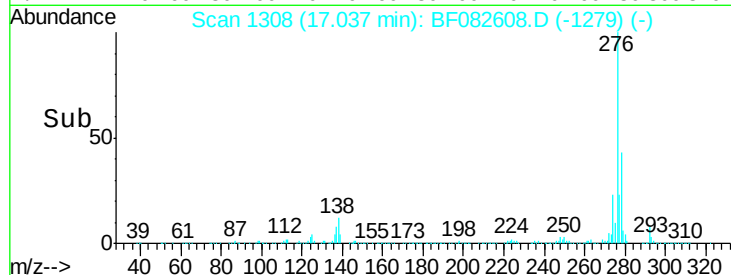
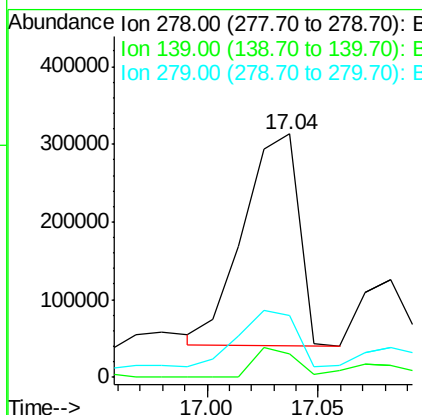
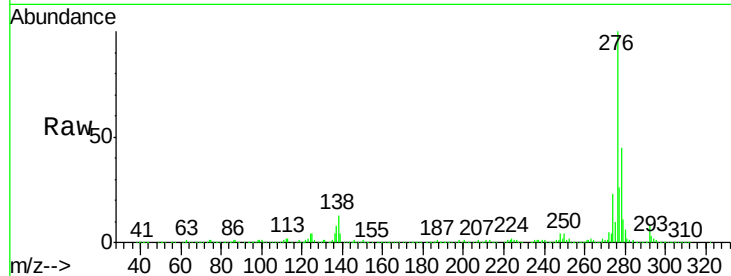
#90
Dibenzo(a,h)anthracene
Concen: 21.35 ng m
RT: 17.04 min Scan# 1308
Delta R.T. 0.03 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.6	9.9	14.9#
279	25.4	19.6	29.4

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#91
Benzo(g,h,i)perylene
Concen: 105.02 ng
RT: 17.47 min Scan# 1346
Delta R.T. 0.06 min
Lab File: BF082608.D
Acq: 31 Oct 2015 8:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	14.7	13.1	19.7

