

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
 Data File : BF082611.D
 Acq On : 31 Oct 2015 10:15
 Operator : UM/IZ
 Sample : G4178-04
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-BOILERROOM2.5FTDEEP

Manual Integrations
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 11/2/2015 4:32:28 PM

Quant Time: Nov 02 06:55:05 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	224745	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	849996	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	459953	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	757448	20.00	ng	0.00
75) Chrysene-d12	14.08	240	473790	20.00	ng	0.00
86) Perylene-d12	15.55	264	435576	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	1966500	131.79	ng	0.01
7) Phenol-d6	6.54	99	2911980	146.89	ng	0.01
23) Nitrobenzene-d5	7.47	82	1974244	94.85	ng	0.00
41) 2,4,6-Tribromophenol	10.74	330	631913	125.54	ng	0.00
44) 2-Fluorobiphenyl	9.28	172	2754505	85.03	ng	0.00
78) Terphenyl-d14	13.03	244	2318388	107.09	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.21	128	1236733	26.89	ng	99
37) 2-Methylnaphthalene	8.90	142	107649	3.61	ng	99
49) Dimethylphthalate	9.66	163	716144	19.06	ng	99
51) Acenaphthene	9.98	154	174818	5.68	ng	97
54) Dibenzofuran	10.16	168	242902	5.81	ng	# 86
57) Fluorene	10.49	166	250061	7.42	ng	99
70) Phenanthrene	11.46	178	2399765	56.17	ng	99
71) Anthracene	11.50	178	634610	14.75	ng	97
72) Carbazole	11.65	167	552307	14.74	ng	97
74) Fluoranthene	12.66	202	2632818	60.28	ng	94
77) Pyrene	12.88	202	1914189	54.56	ng	97
80) Benzo(a)anthracene	14.07	228	947446	31.48	ng	99
82) Chrysene	14.11	228	682723	25.03	ng	98
83) Bis(2-ethylhexyl)phthalate	14.08	149	45350	2.28	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.99	276	473486	21.03	ng	96
87) Benzo(b)fluoranthene	15.13	252	791649m	26.36	ng	
88) Benzo(k)fluoranthene	15.14	252	379190m	16.57	ng	
89) Benzo(a)pyrene	15.49	252	563160	23.81	ng	97
90) Dibenzo(a,h)anthracene	16.99	278	111573	5.06	ng	95
91) Benzo(g,h,i)perylene	17.41	276	464423	21.71	ng	99

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

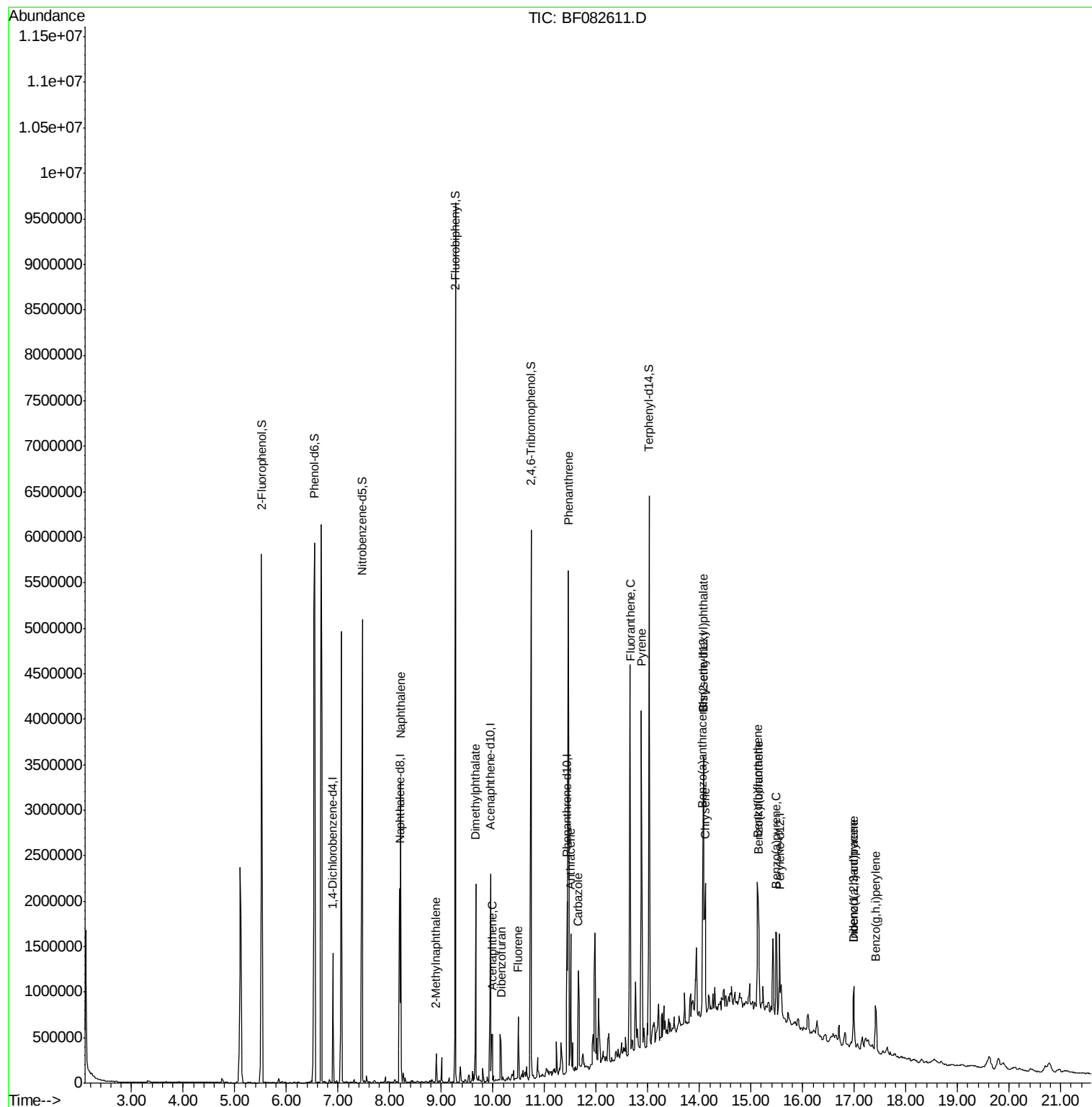
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
Data File : BF082611.D
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ALS Vial : 29 Sample Multiplier: 1

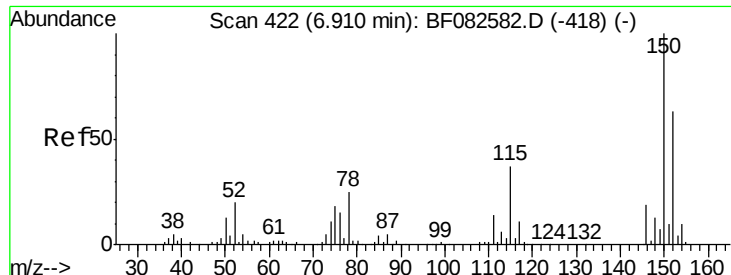
Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Manual Integrations
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Quant Time: Nov 02 06:55:05 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

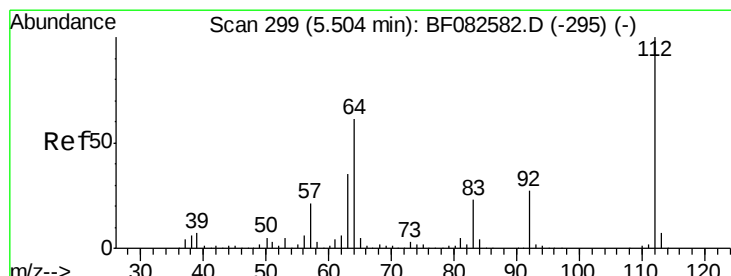
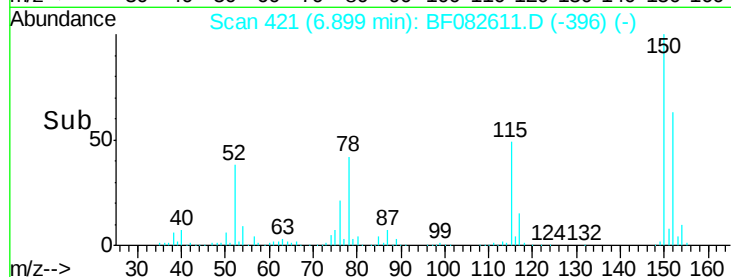
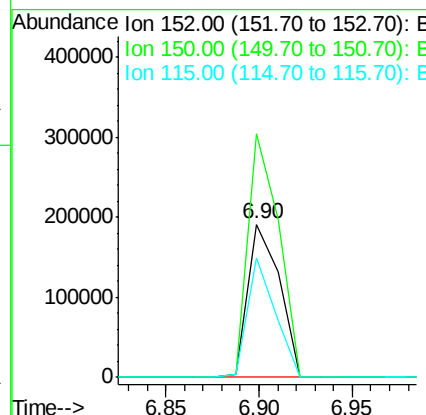
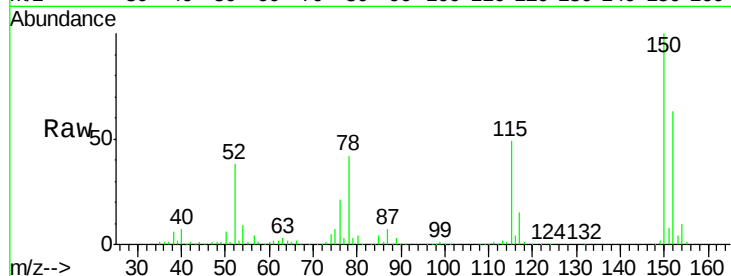
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.0	127.0	190.4
115	78.0	47.0	70.6

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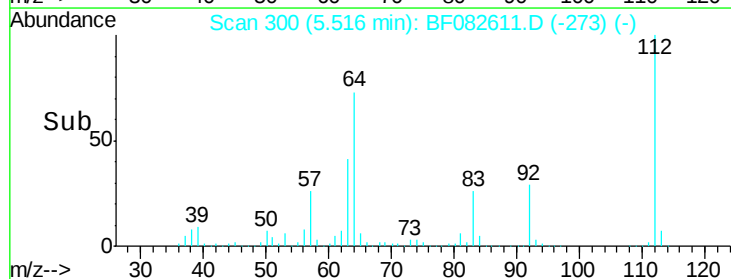
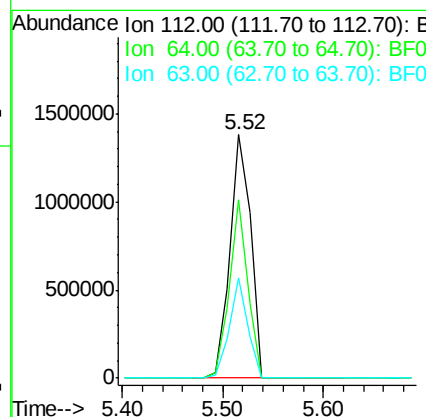
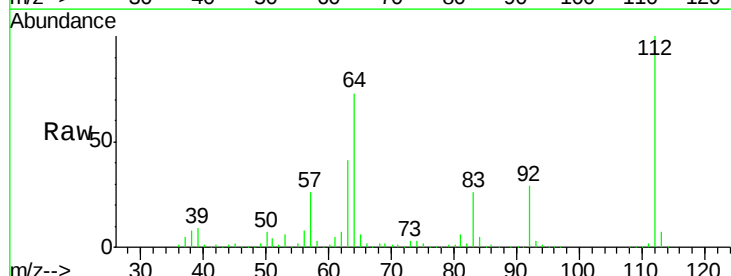
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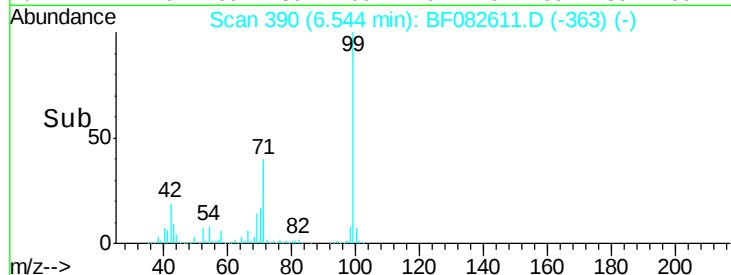
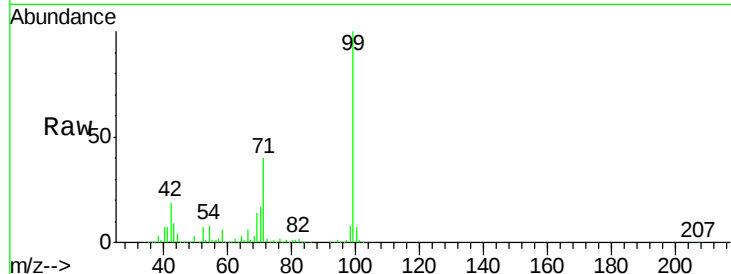
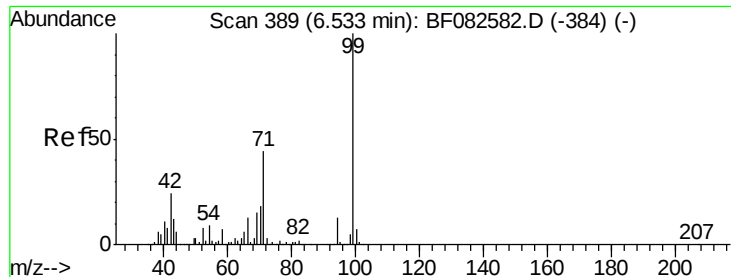


#5

2-Fluorophenol
Concen: 131.79 ng
RT: 5.52 min Scan# 300
Delta R.T. 0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.1	48.9	73.3
63	41.4	28.1	42.1





#7

Phenol-d6

Concen: 146.89 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.01 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

Instrument :

BNA_F

ClientSampleId :

S4-BOILERROOM2.5FTDEEP

Tgt Ion: 99 Resp: 2911980

Ion Ratio Lower Upper

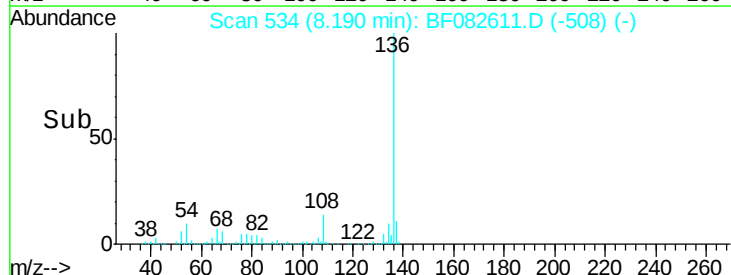
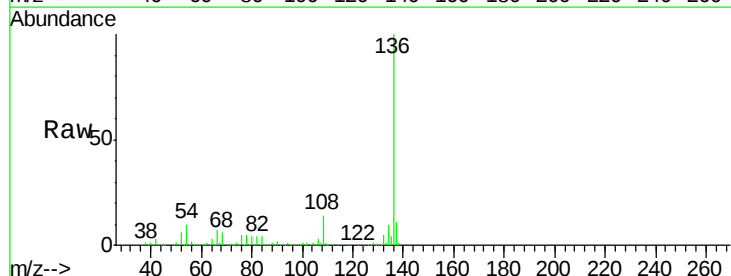
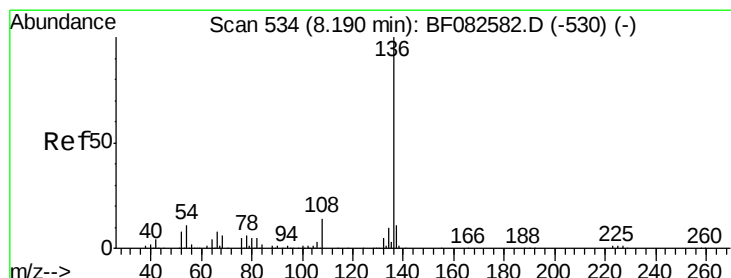
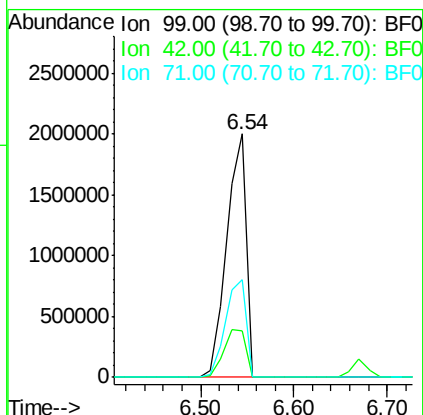
99 100

42 18.9 19.2 28.8#

71 40.2 35.0 52.4

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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: BF082611.D

Acq: 31 Oct 2015 10:15

Tgt Ion: 136 Resp: 849996

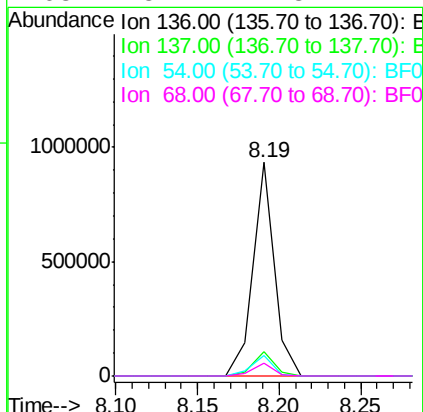
Ion Ratio Lower Upper

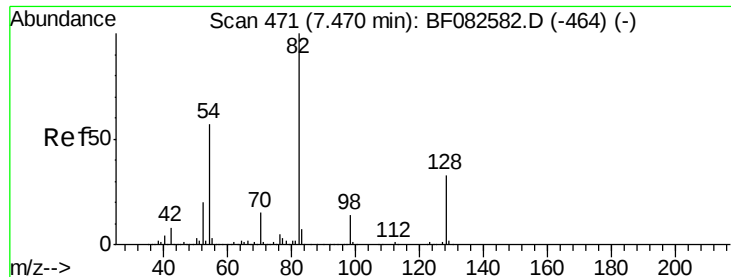
136 100

137 11.3 9.1 13.7

54 9.8 9.1 13.7

68 5.7 4.8 7.2





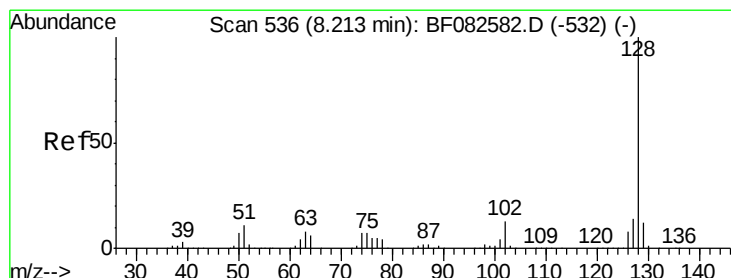
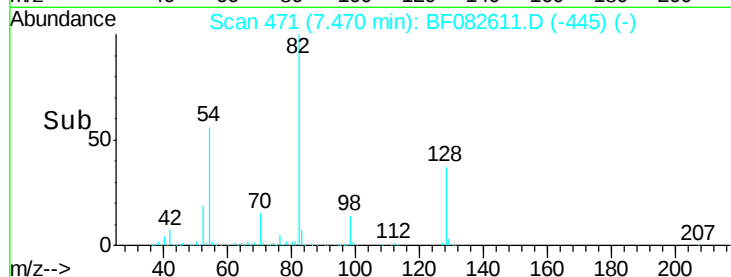
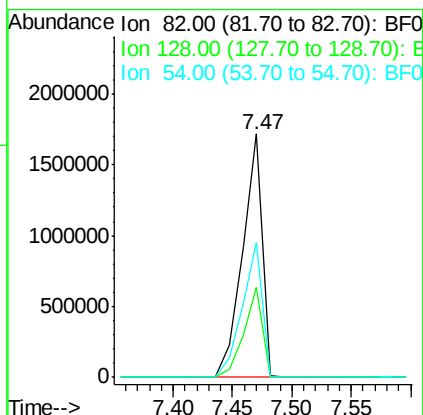
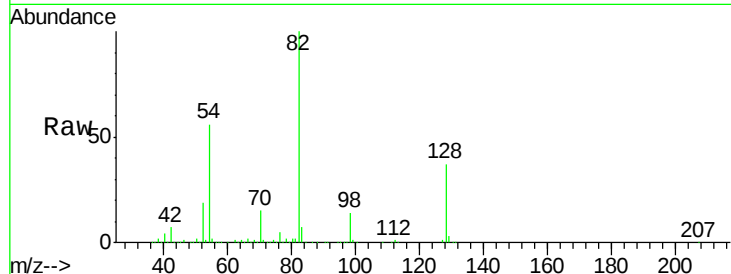
#23
 Nitrobenzene-d5
 Concen: 94.85 ng
 RT: 7.47 min Scan# 471
 Delta R.T. -0.00 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Instrument :
 BNA_F
 ClientSampleId :
 S4-BOILERROOM2.5FTDEEP

Tgt Ion: 82 Resp: 1974244
 Ion Ratio Lower Upper
 82 100
 128 36.9 26.8 40.2
 54 55.6 45.7 68.5

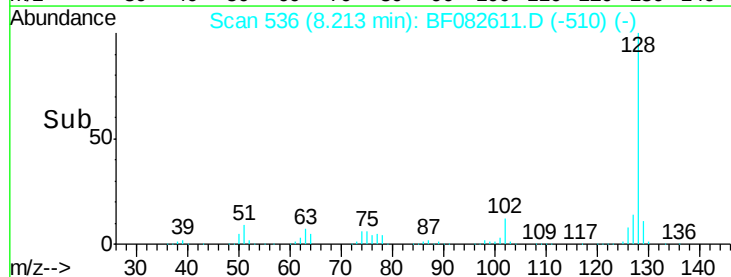
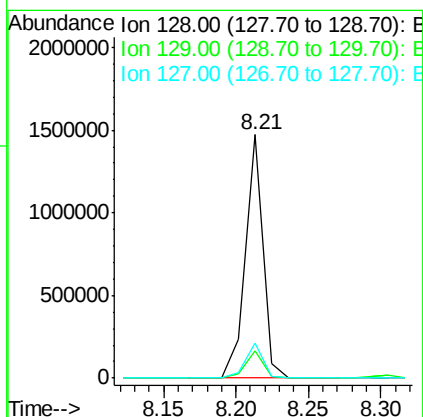
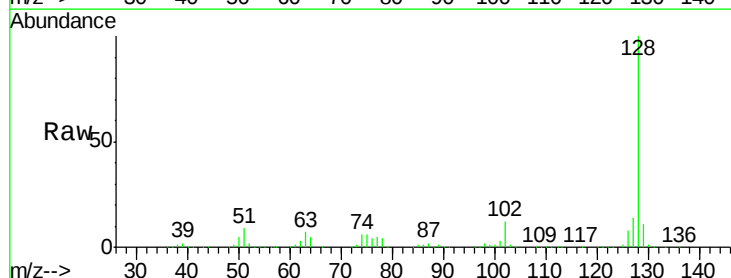
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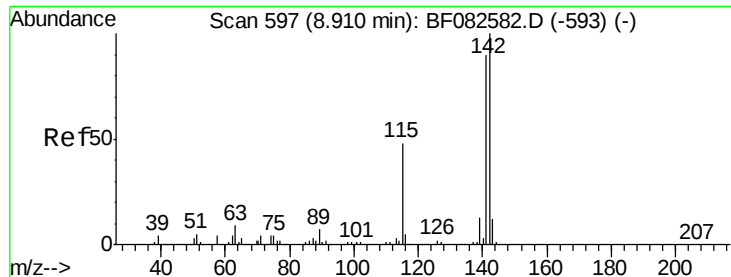
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#31
 Naphthalene
 Concen: 26.89 ng
 RT: 8.21 min Scan# 536
 Delta R.T. -0.00 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Tgt Ion: 128 Resp: 1236733
 Ion Ratio Lower Upper
 128 100
 129 11.4 9.5 14.3
 127 14.1 11.4 17.0





#37

2-Methylnaphthalene

Concen: 3.61 ng

RT: 8.90 min Scan# 596

Delta R.T. -0.01 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

Instrument :

BNA_F

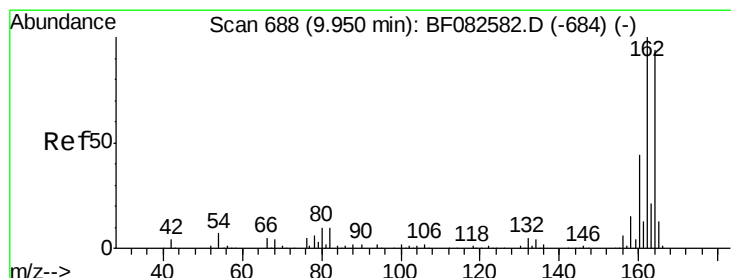
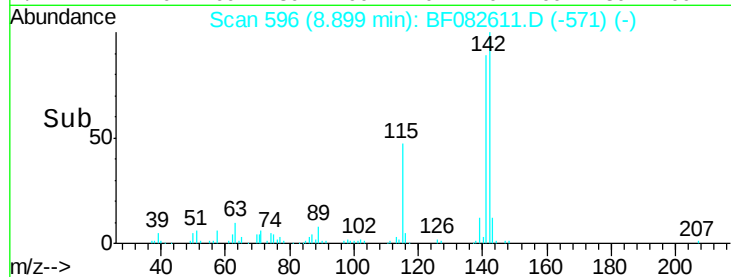
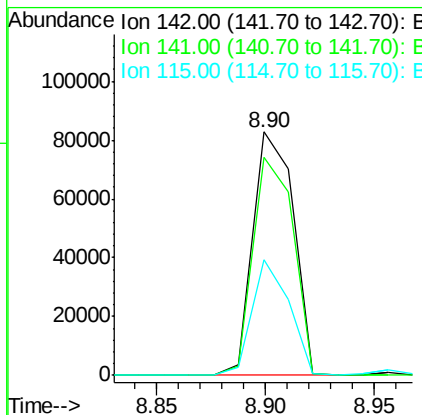
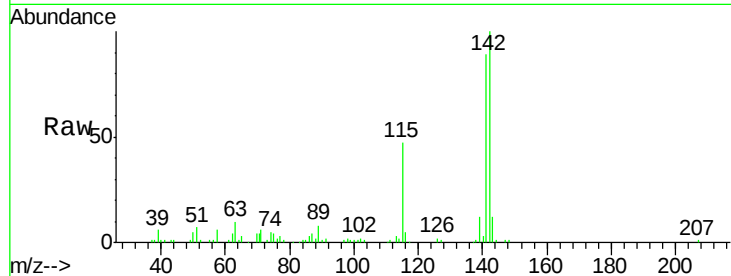
ClientSampleId :

S4-BOILERROOM2.5FTDEEP

Tgt Ion:	142	Resp:	107649
Ion Ratio	Lower	Upper	
142	100		
141	89.5	72.3	108.5
115	47.2	38.1	57.1

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#38

Acenaphthene-d10

Concen: 20.00 ng

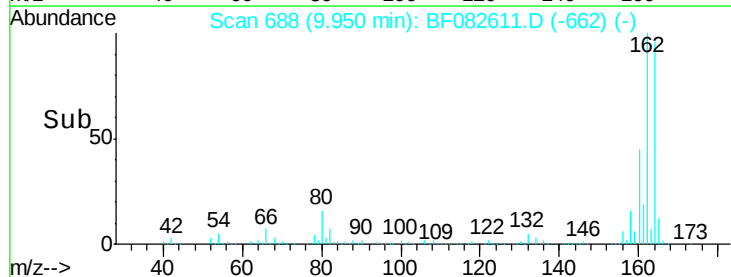
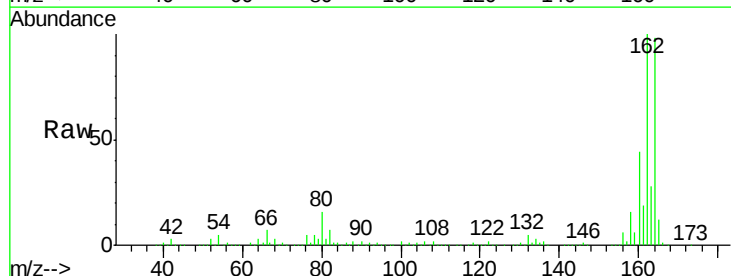
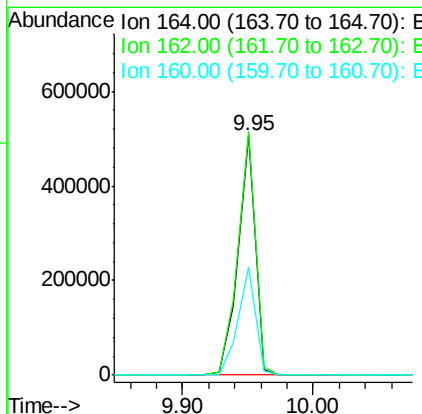
RT: 9.95 min Scan# 688

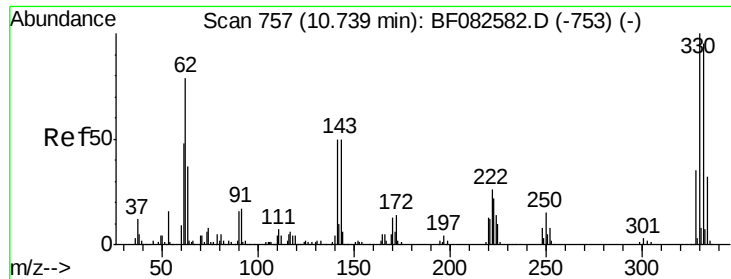
Delta R.T. -0.00 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

Tgt Ion:	164	Resp:	459953
Ion Ratio	Lower	Upper	
164	100		
162	101.8	84.9	127.3
160	45.2	37.5	56.3





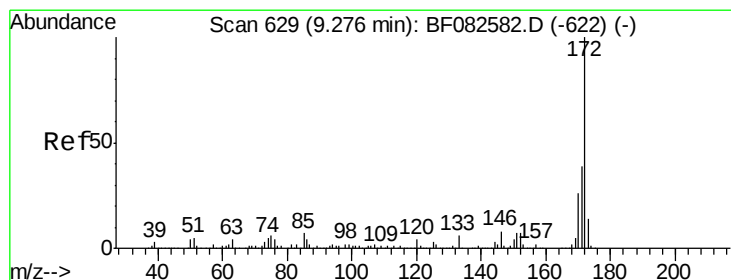
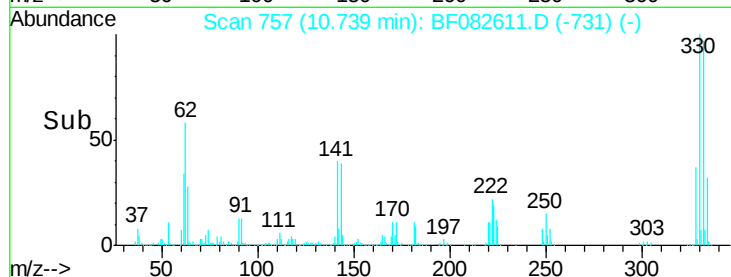
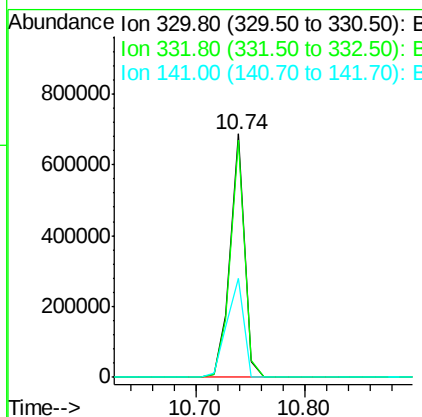
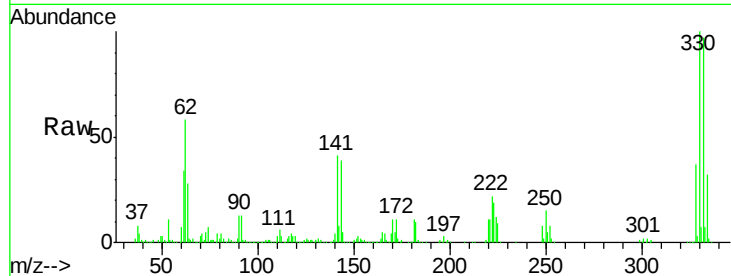
#41
 2,4,6-Tribromophenol
 Concen: 125.54 ng
 RT: 10.74 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Instrument :
 BNA_F
 ClientSampleId :
 S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	631913		
332	97.2	76.6	114.8	
141	47.6	41.2	61.8	

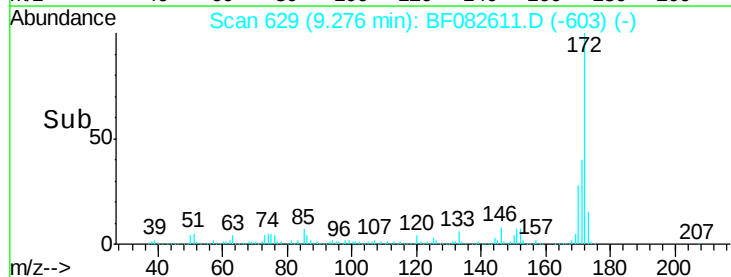
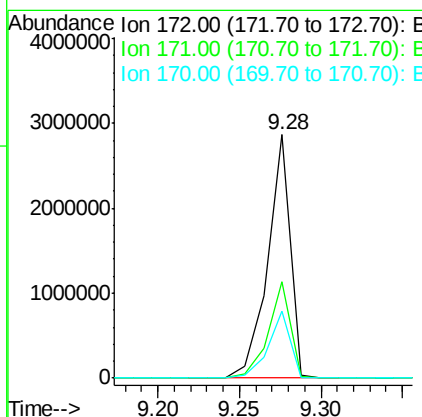
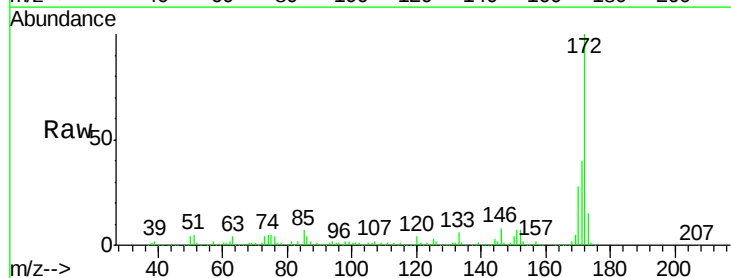
Manual Integrations
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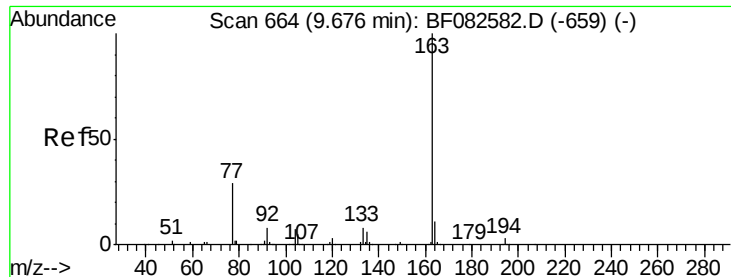
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#44
 2-Fluorobiphenyl
 Concen: 85.03 ng
 RT: 9.28 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2754505		
171	39.5	30.8	46.2	
170	27.5	21.2	31.8	





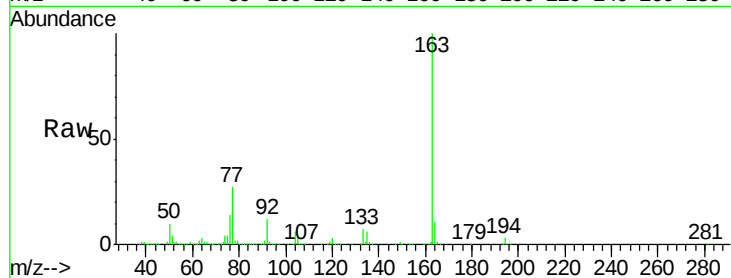
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Dimethylphthalate
Concen: 19.06 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

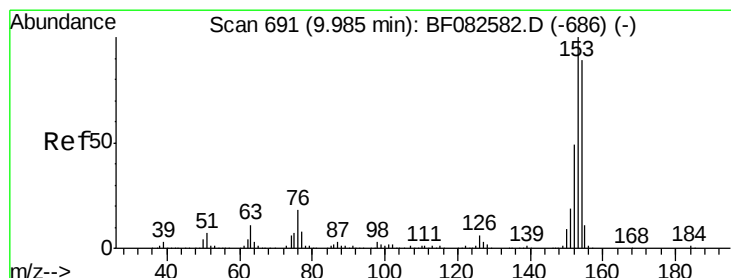
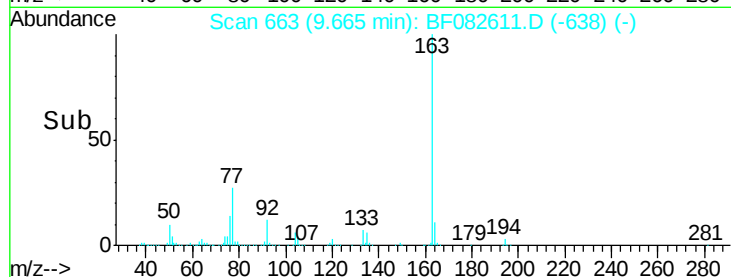
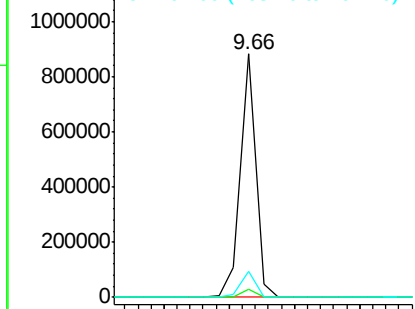
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	716144		
194	3.4	2.6	4.0	
164	10.7	8.7	13.1	

Manual Integrations
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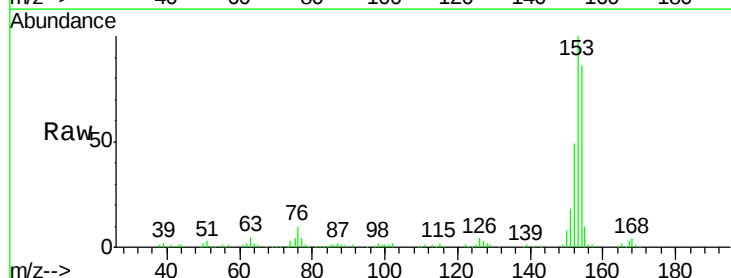


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

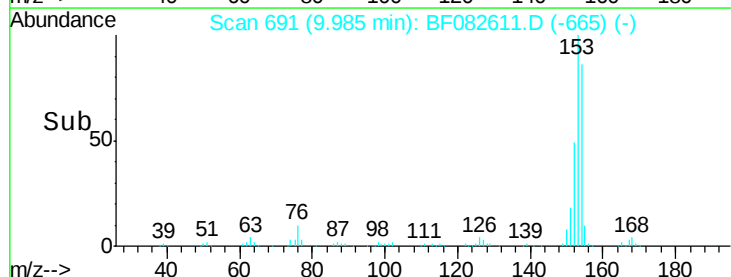
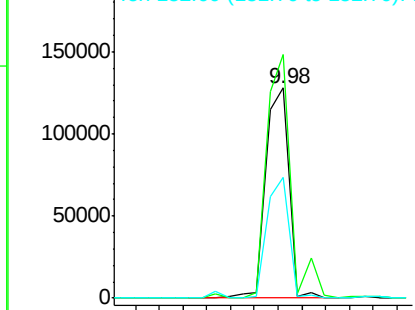


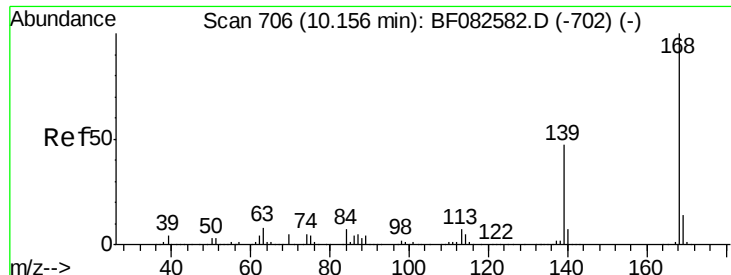
#51
Acenaphthene
Concen: 5.68 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	174818		
153	116.0	90.1	135.1	
152	57.2	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





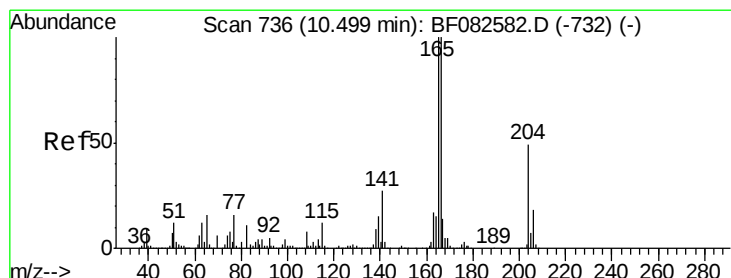
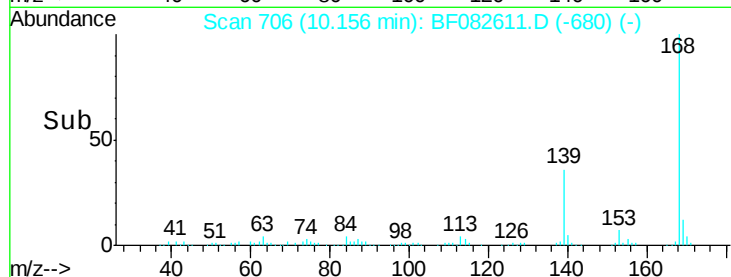
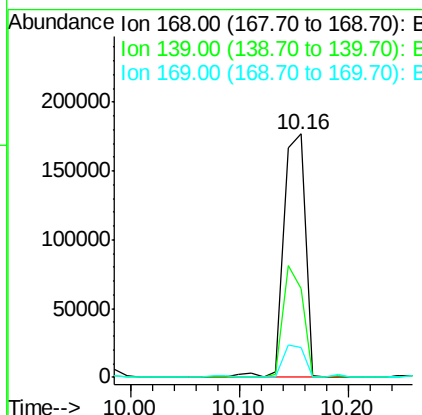
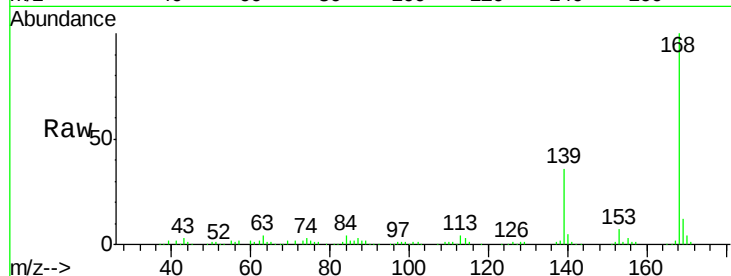
#54
Dibenzenofuran
Concen: 5.81 ng
RT: 10.16 min Scan# 706
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	242902		
139	36.2	37.8	56.6#	
169	12.2	11.3	16.9	

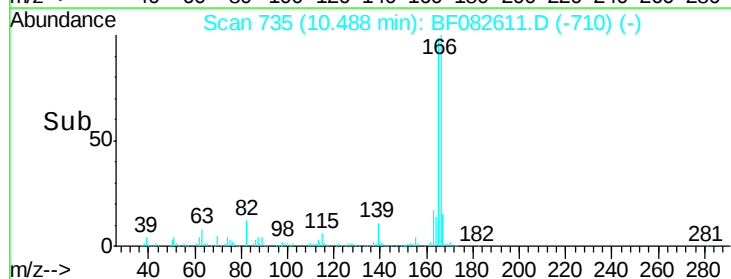
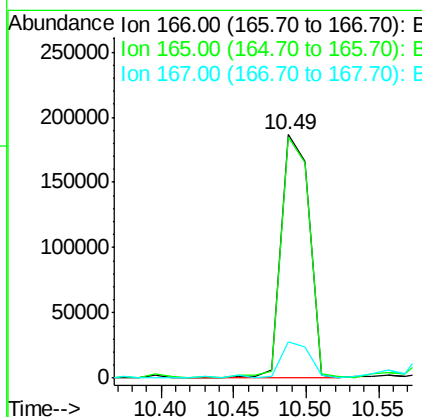
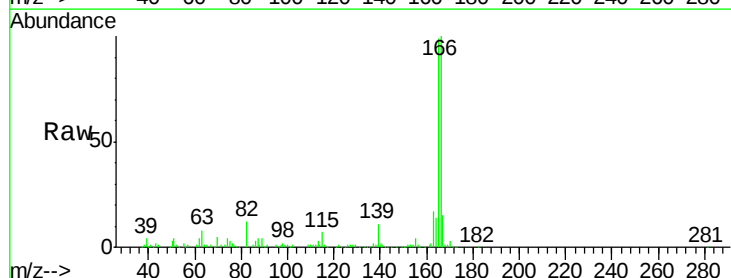
Manual Integrations
APPROVED

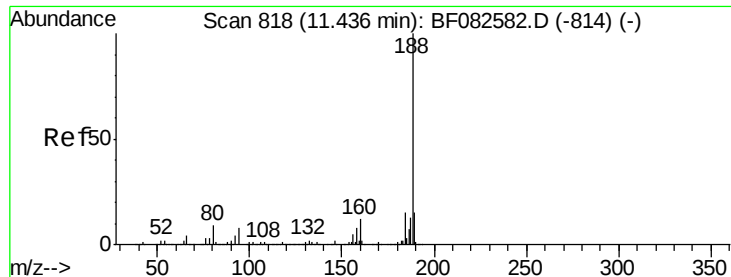
Mmdadoda
11/2/2015 4:32:28 PM



#57
Fluorene
Concen: 7.42 ng
RT: 10.49 min Scan# 735
Delta R.T. -0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	250061		
165	99.2	80.2	120.4	
167	14.8	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: BF082611.D

Acq: 31 Oct 2015 10:15

Instrument :

BNA_F

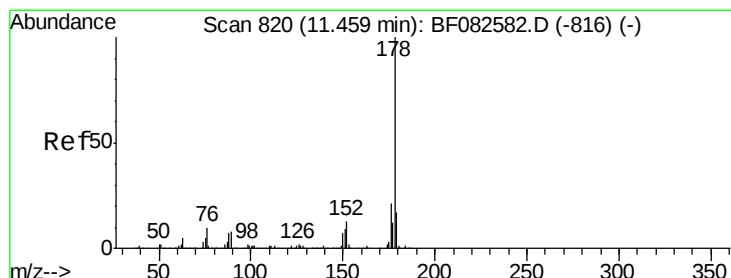
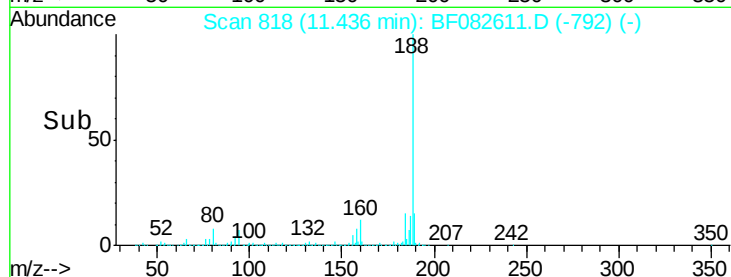
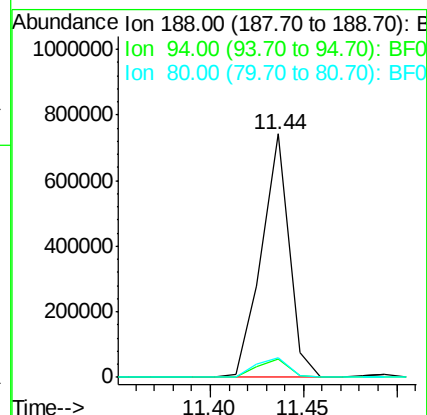
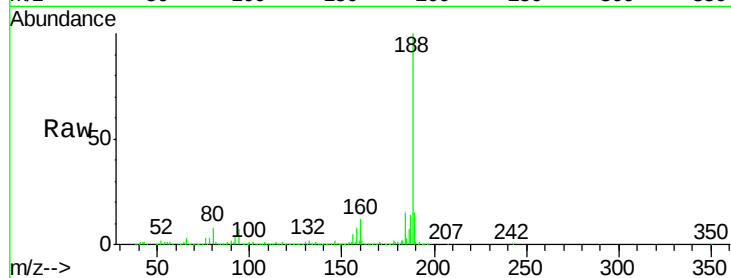
ClientSampleId :

S4-BOILERROOM2.5FTDEEP

Tgt Ion:	188	Resp:	757448
Ion Ratio	Lower	Upper	
188	100		
94	7.4	6.1	9.1
80	7.9	7.0	10.6

Manual Integrations
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Mmdadoda
11/2/2015 4:32:28 PM



#70

Phenanthrene

Concen: 56.17 ng

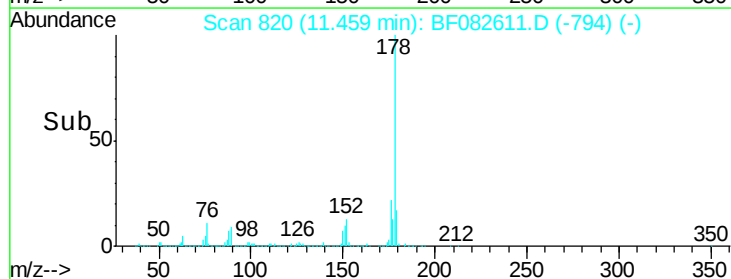
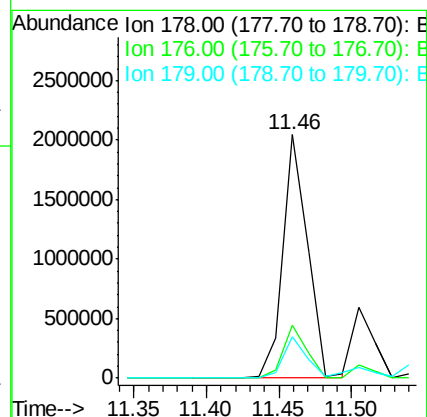
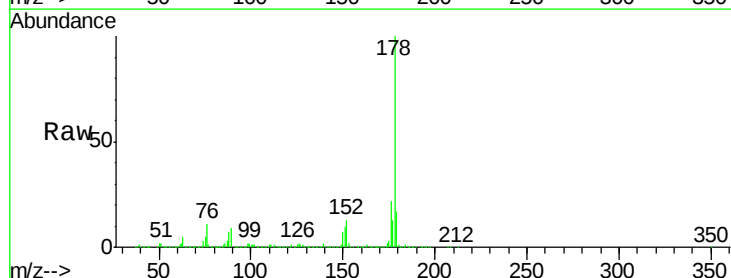
RT: 11.46 min Scan# 820

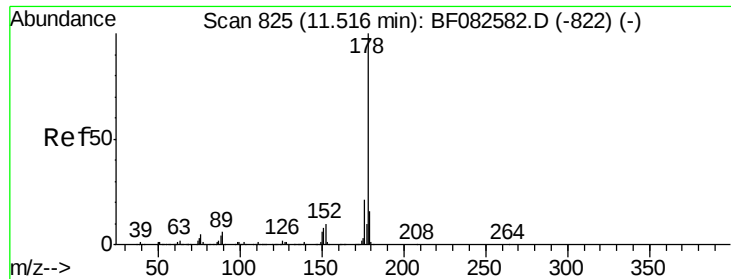
Delta R.T. -0.00 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

Tgt Ion:	178	Resp:	2399765
Ion Ratio	Lower	Upper	
178	100		
176	21.6	17.0	25.4
179	17.0	13.4	20.0





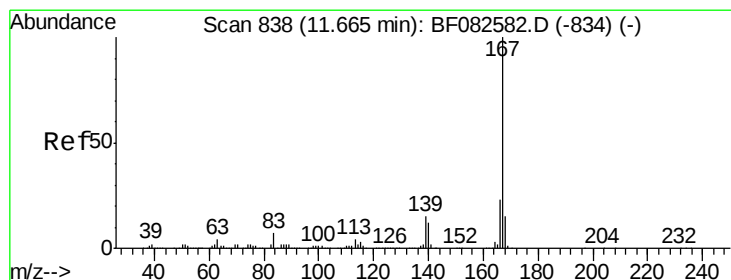
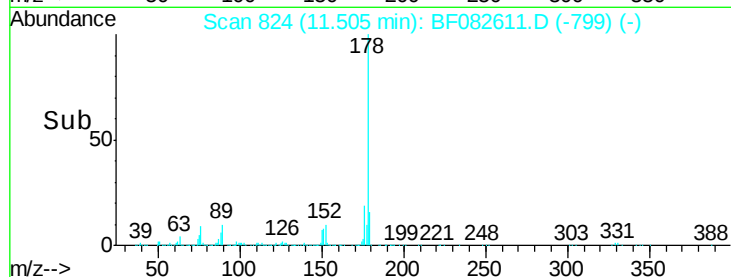
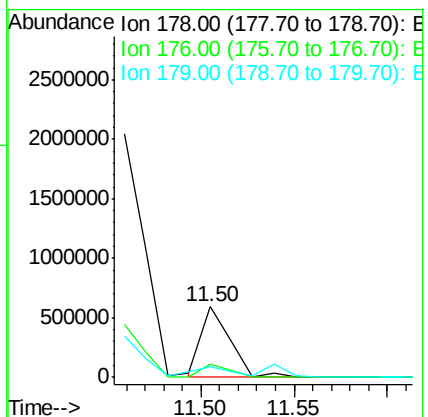
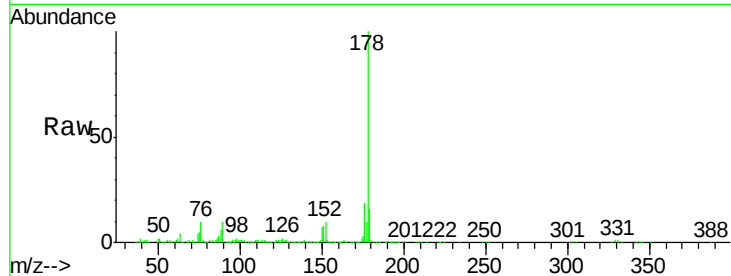
#71
 Anthracene
 Concen: 14.75 ng
 RT: 11.50 min Scan# 824
 Delta R.T. -0.01 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Instrument :
 BNA_F
 ClientSampleId :
 S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.5	24.7
179	15.9	13.2	19.8

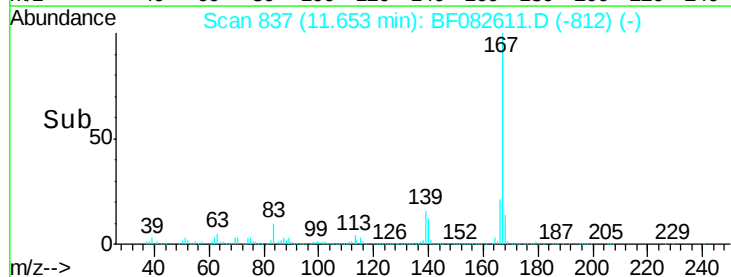
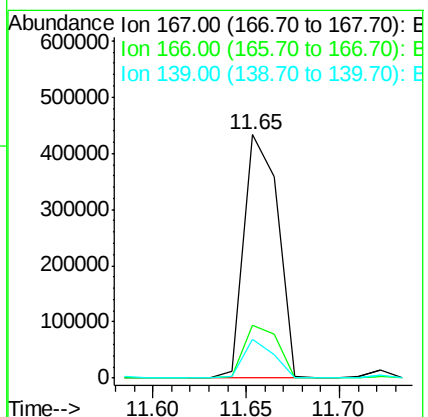
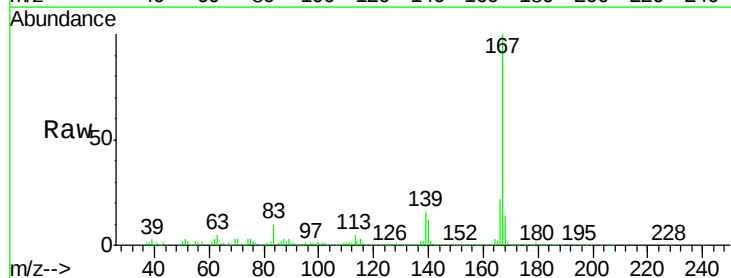
Manual Integrations
 APPROVED

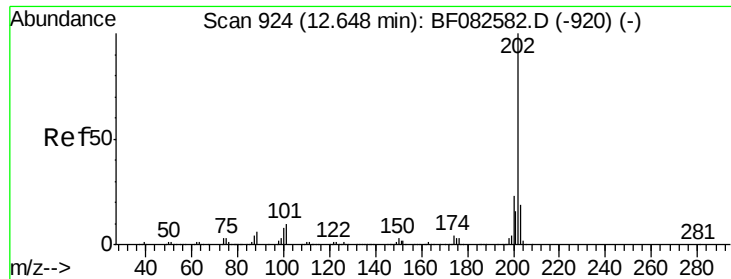
Mmdadoda
 11/2/2015 4:32:28 PM



#72
 Carbazole
 Concen: 14.74 ng
 RT: 11.65 min Scan# 837
 Delta R.T. -0.01 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

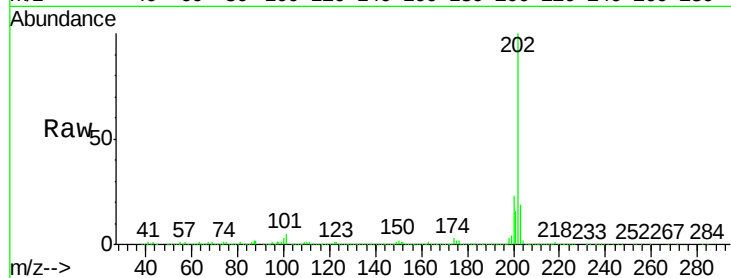
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	18.7	28.1
139	16.0	11.8	17.6





#74
 Fluoranthene
 Concen: 60.28 ng
 RT: 12.66 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

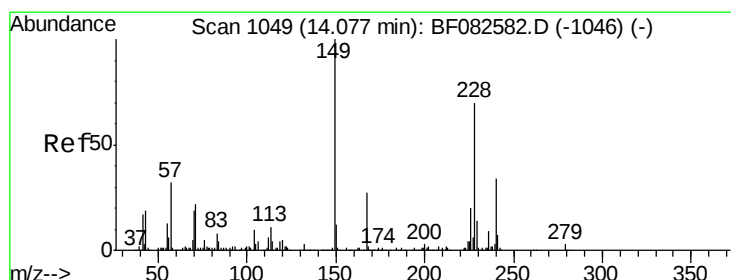
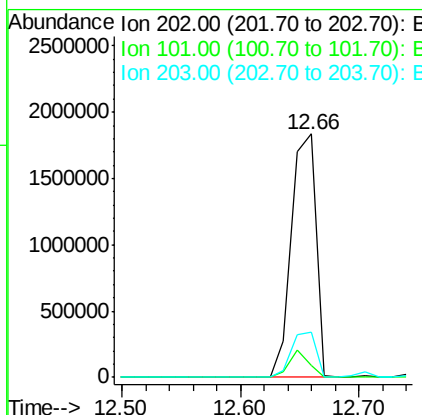
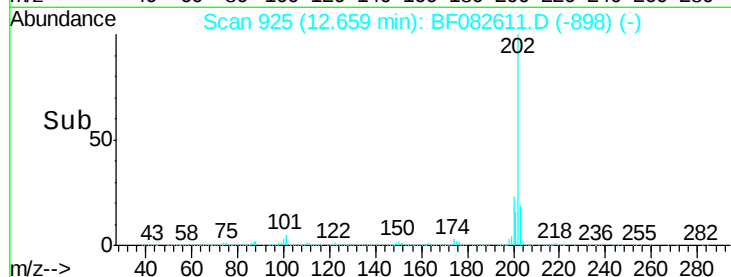
Instrument :
 BNA_F
 ClientSampleId :
 S4-BOILERROOM2.5FTDEEP



Tgt Ion	Ratio	Lower	Upper
202	100		
101	4.7	0.0	30.5
203	18.7	0.0	38.5

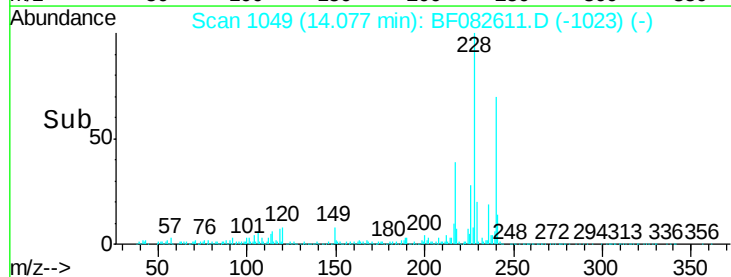
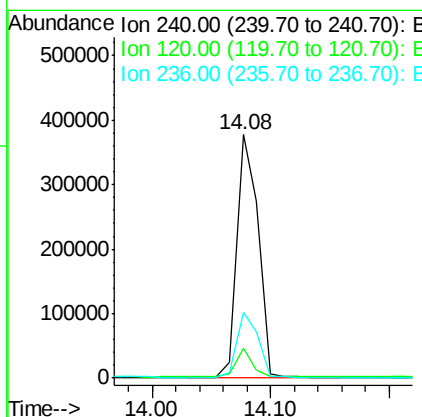
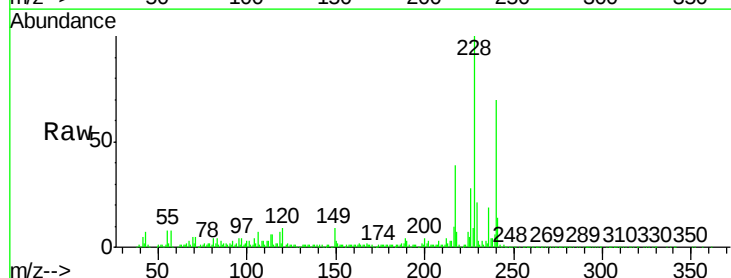
Manual Integrations
 APPROVED

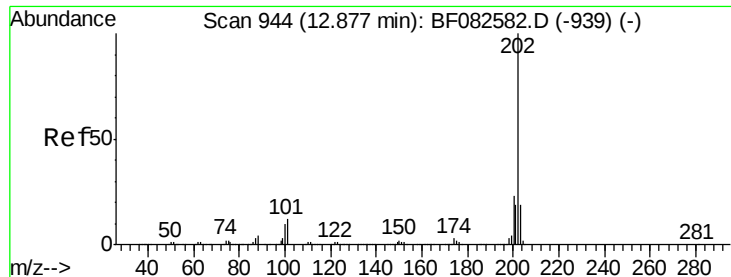
Mmdadoda
 11/2/2015 4:32:28 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.08 min Scan# 1049
 Delta R.T. -0.00 min
 Lab File: BF082611.D
 Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.9	16.3
236	26.9	21.6	32.4





#77

Pyrene

Concen: 54.56 ng

RT: 12.88 min Scan# 944

Delta R.T. -0.00 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

Instrument :

BNA_F

ClientSampleId :

S4-BOILERROOM2.5FTDEEP

Tgt Ion:202 Resp: 1914189

Ion Ratio Lower Upper

202 100

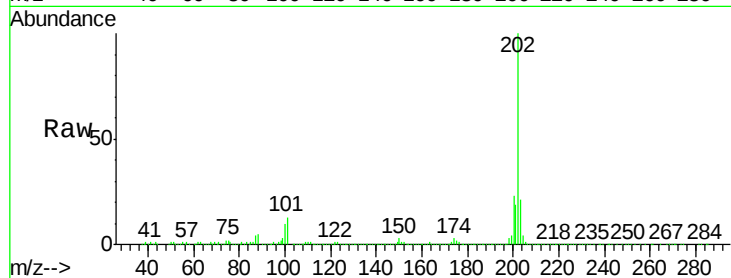
200 23.1 18.7 28.1

203 20.8 14.8 22.2

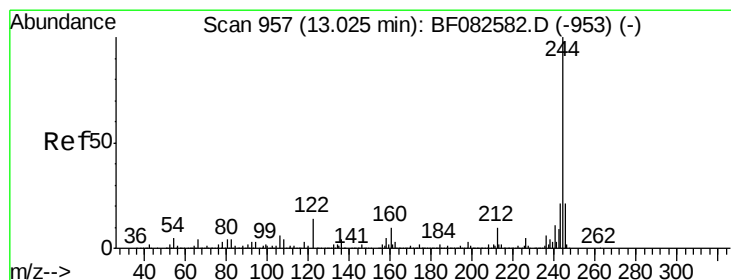
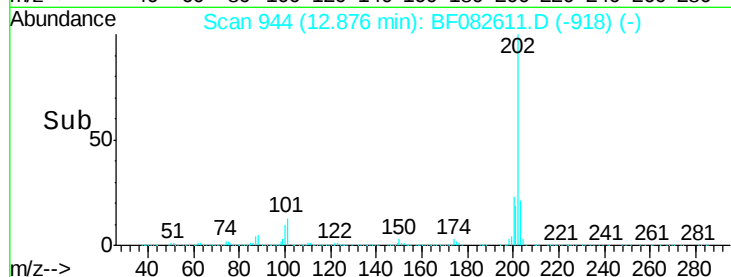
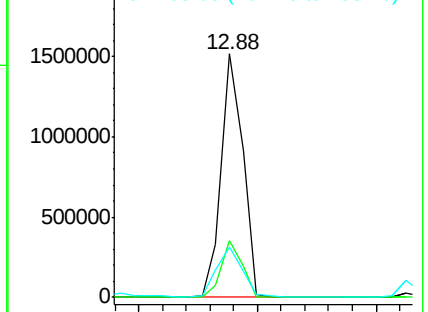
Manual Integrations
APPROVED

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11/2/2015 4:32:28 PM



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: 107.09 ng

RT: 13.03 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF082611.D

Acq: 31 Oct 2015 10:15

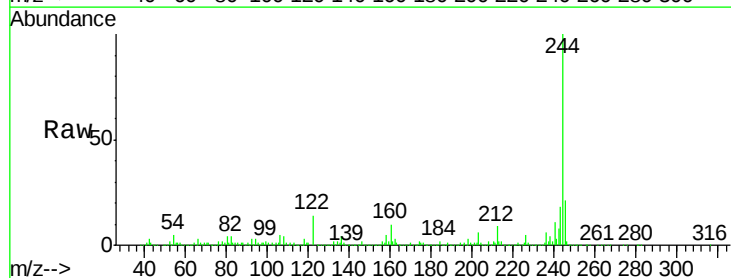
Tgt Ion:244 Resp: 2318388

Ion Ratio Lower Upper

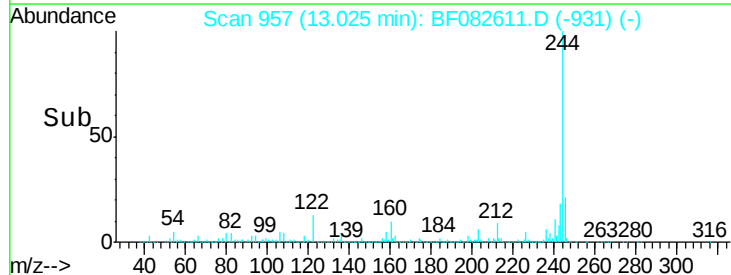
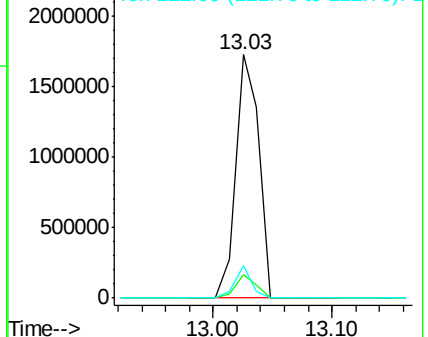
244 100

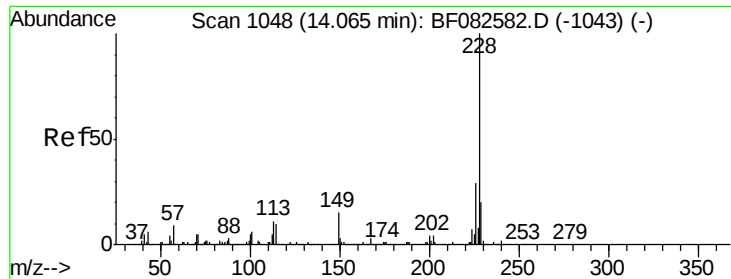
212 9.4 7.6 11.4

122 13.5 11.3 16.9



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





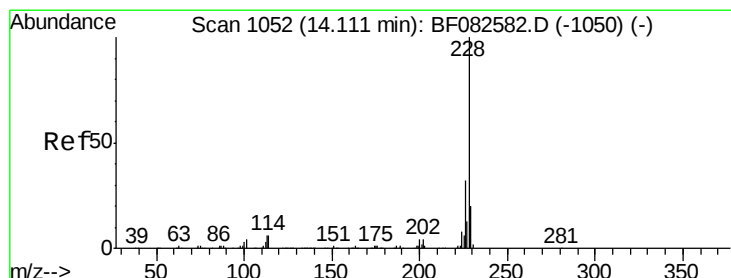
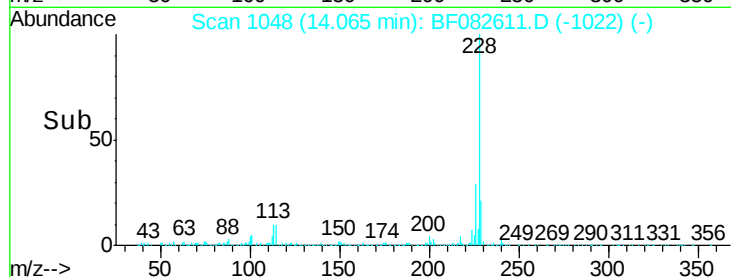
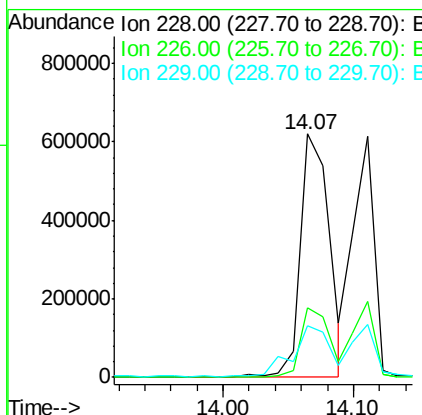
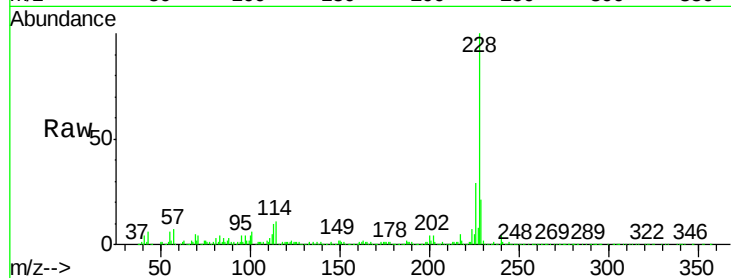
#80
Benzo(a)anthracene
Concen: 31.48 ng
RT: 14.07 min Scan# 1048
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.4	35.2
229	21.0	16.3	24.5

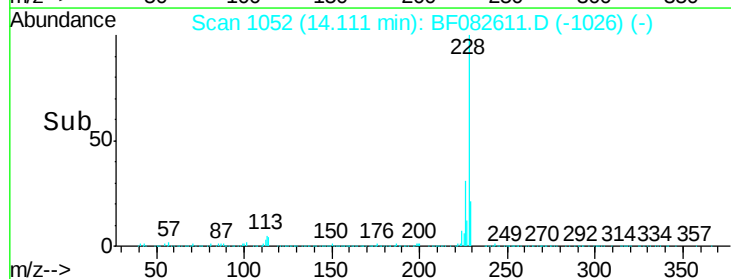
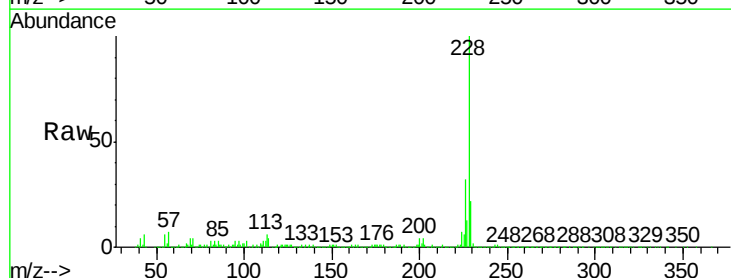
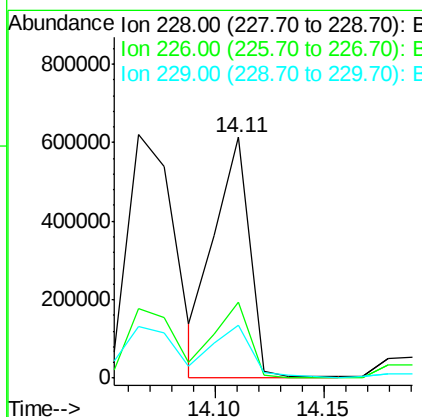
Manual Integrations
APPROVED

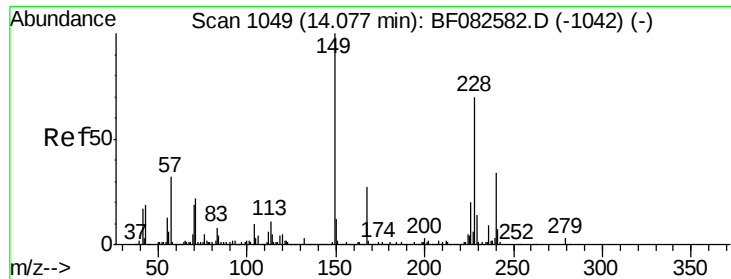
Mmdadoda
11/2/2015 4:32:28 PM



#82
Chrysene
Concen: 25.03 ng
RT: 14.11 min Scan# 1052
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.5	38.3
229	22.2	16.3	24.5





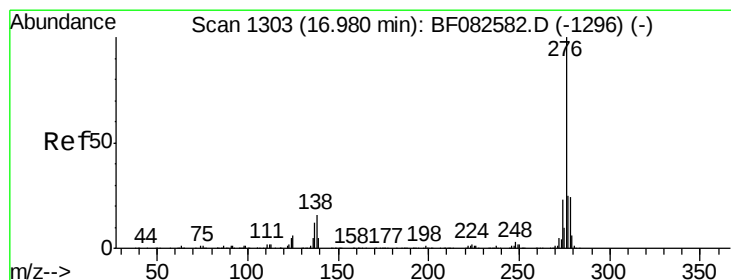
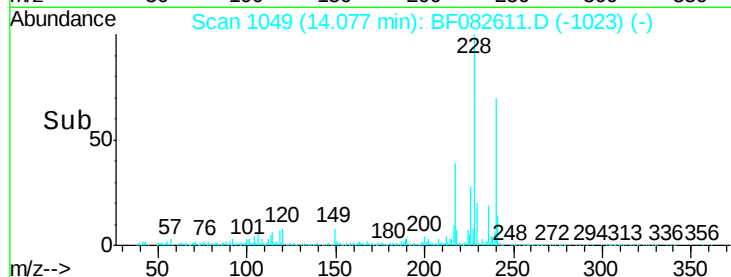
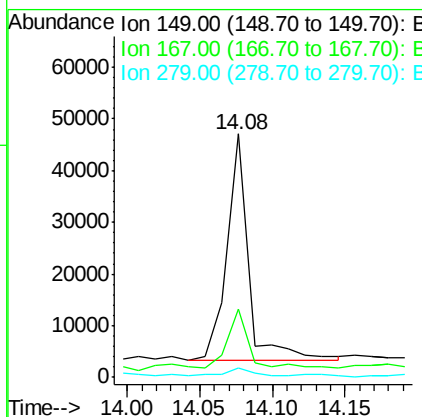
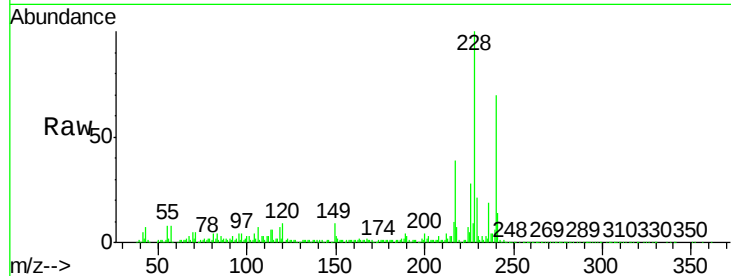
#83
Bis(2-ethylhexyl)phthalate
Concen: 2.28 ng
RT: 14.08 min Scan# 1049
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	28.2	21.2	31.8
279	3.7	2.2	3.2

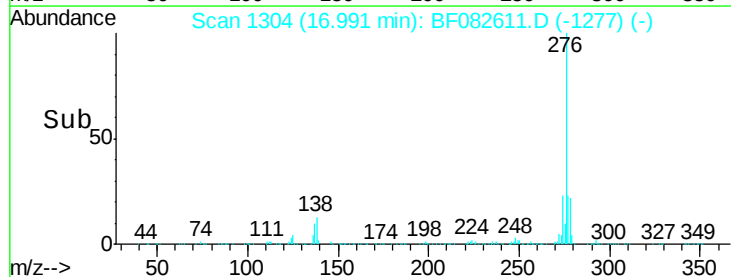
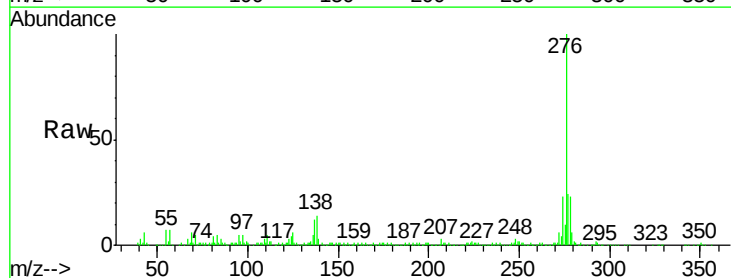
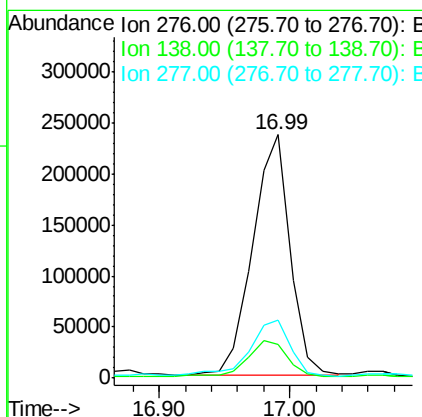
Manual Integrations
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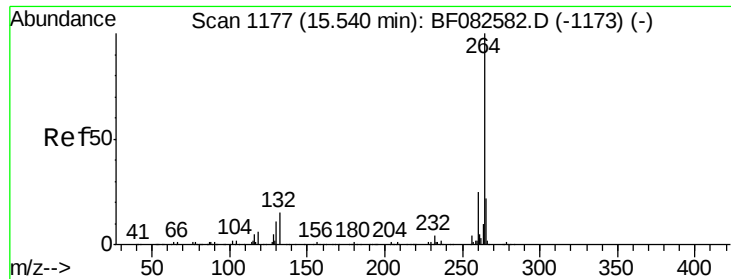
Mmdadoda
11/2/2015 4:32:28 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.03 ng
RT: 16.99 min Scan# 1304
Delta R.T. 0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	15.6	15.3	22.9
277	26.1	20.2	30.4





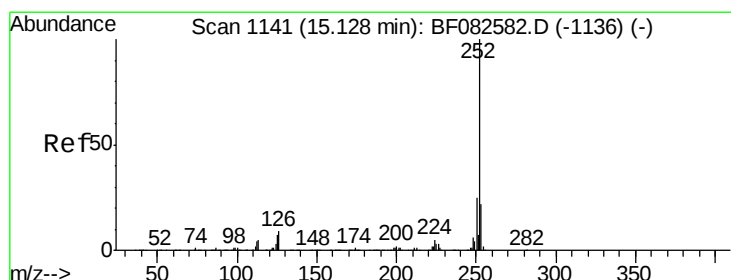
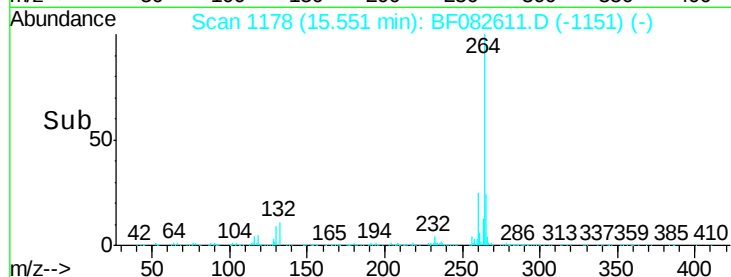
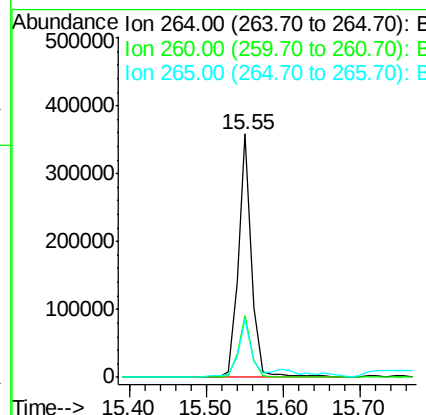
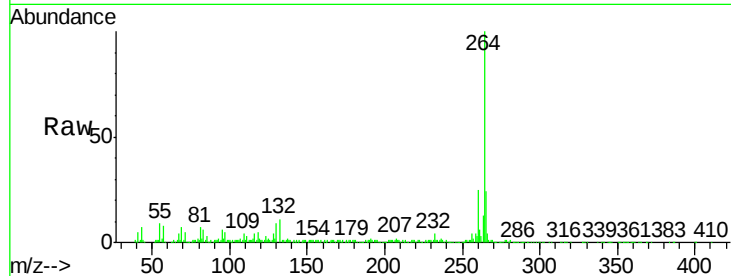
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.55 min Scan# 1178
Delta R.T. 0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	25.3	19.8	29.6	
265	23.8	17.4	26.0	

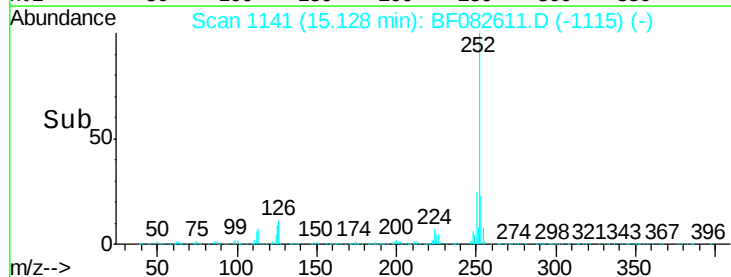
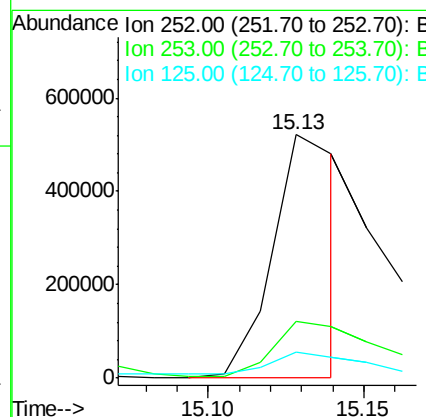
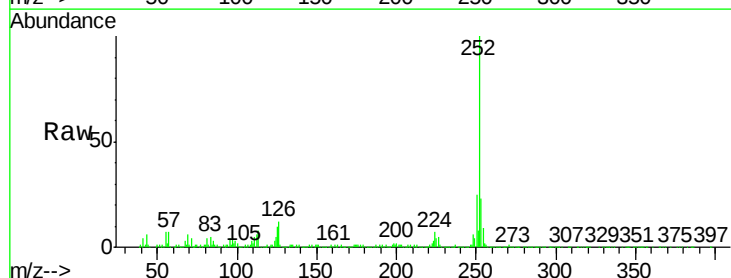
Manual Integrations
APPROVED

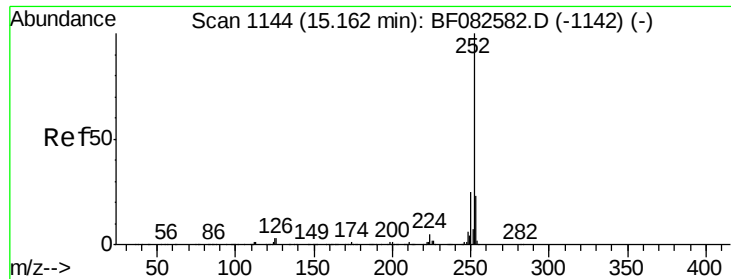
Mmdadoda
11/2/2015 4:32:28 PM



#87
Benzo(b)fluoranthene
Concen: 26.36 ng m
RT: 15.13 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.2	17.8	26.8	
125	10.5	5.4	8.2#	





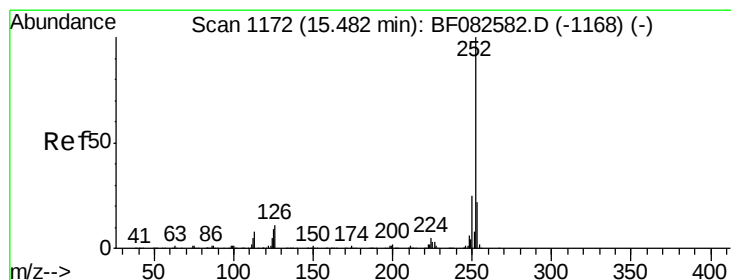
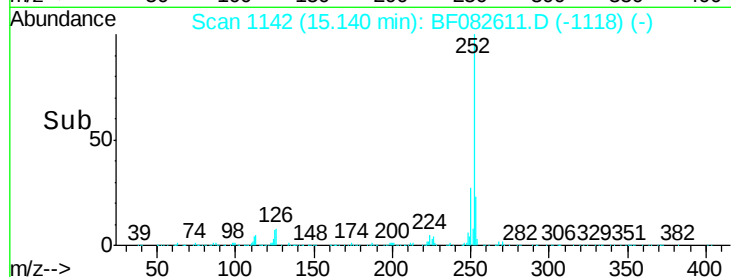
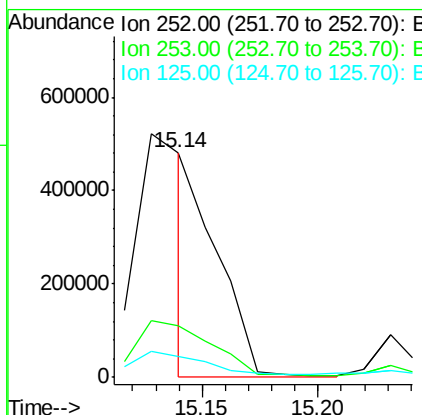
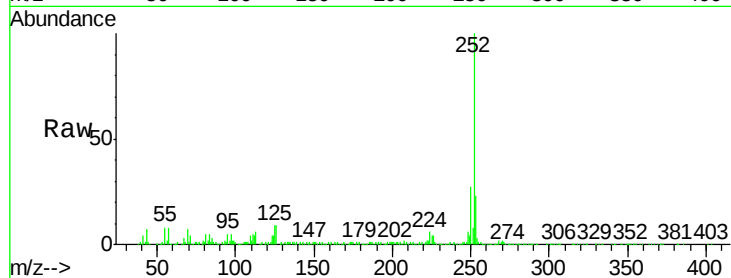
#88
Benzo(k)fluoranthene
Concen: 16.57 ng m
RT: 15.14 min Scan# 1142
Delta R.T. -0.02 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	9.1	3.5	5.3

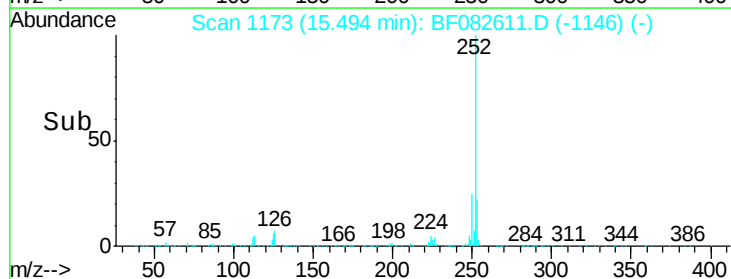
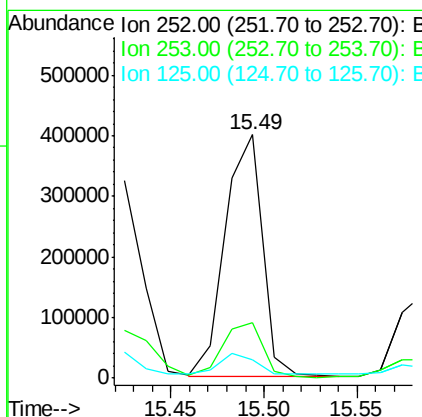
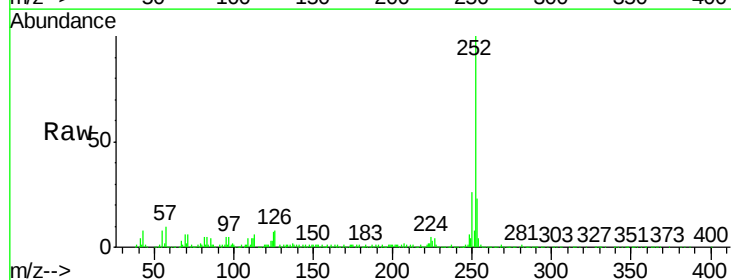
Manual Integrations
APPROVED

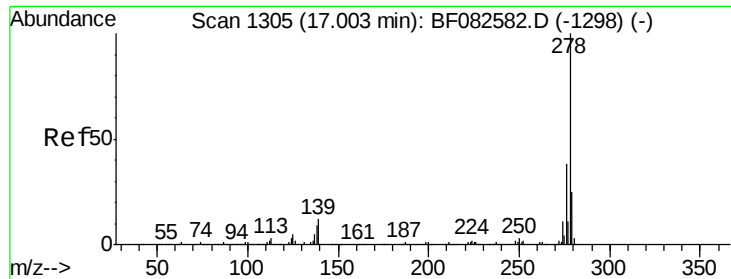
Mmdadoda
11/2/2015 4:32:28 PM



#89
Benzo(a)pyrene
Concen: 23.81 ng
RT: 15.49 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	7.4	7.1	10.7





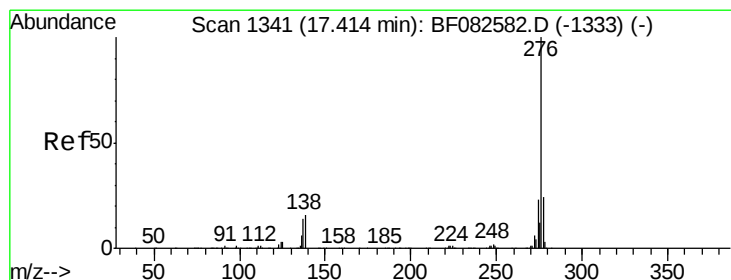
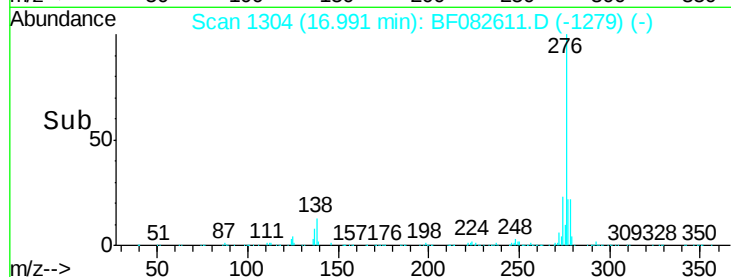
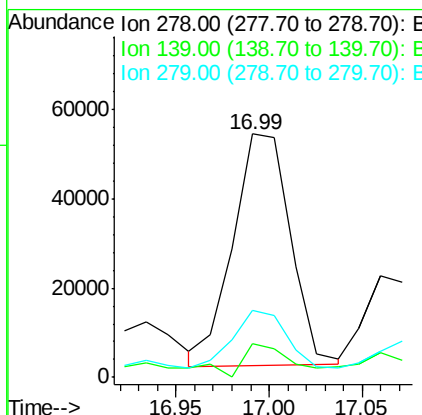
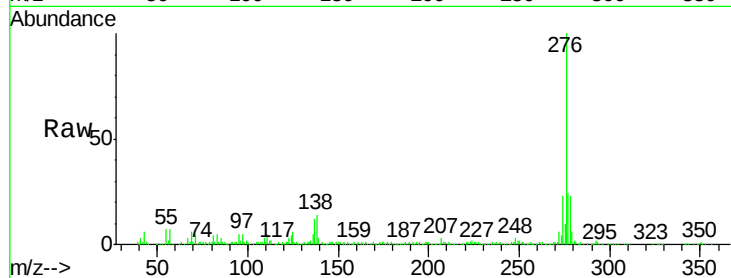
#90
Dibenzo(a,h)anthracene
Concen: 5.06 ng
RT: 16.99 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Instrument :
BNA_F
ClientSampleId :
S4-BOILERROOM2.5FTDEEP

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.9	9.9	14.9
279	27.5	19.6	29.4

Manual Integrations
APPROVED

Mmdadoda
11/2/2015 4:32:28 PM



#91
Benzo(g,h,i)perylene
Concen: 21.71 ng
RT: 17.41 min Scan# 1341
Delta R.T. -0.00 min
Lab File: BF082611.D
Acq: 31 Oct 2015 10:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	16.1	13.1	19.7

