

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
 Data File : BF082609.D
 Acq On : 31 Oct 2015 9:17
 Operator : UM/IZ
 Sample : G4178-05DL2 50X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPL2

Manual Integrations
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 11/2/2015 4:32:26 PM

Quant Time: Nov 02 06:34:06 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	174289m	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	713847	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	364965	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	657704	20.00	ng	0.00
75) Chrysene-d12	14.08	240	419145	20.00	ng	0.00
86) Perylene-d12	15.54	264	372750	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	38011	3.28	ng	-0.01
7) Phenol-d6	6.52	99	50102	3.26	ng	-0.01
23) Nitrobenzene-d5	7.46	82	36010	2.06	ng	-0.01
41) 2,4,6-Tribromophenol	10.73	330	11290	2.83	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	57631	2.24	ng	-0.01
78) Terphenyl-d14	13.01	244	49554	2.59	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.21	128	469553	12.16	ng	99
37) 2-Methylnaphthalene	8.91	142	66659m	2.66	ng	
51) Acenaphthene	9.98	154	111822	4.57	ng	97
54) Dibenzofuran	10.16	168	166154	5.01	ng	# 85
57) Fluorene	10.49	166	121581	4.54	ng	99
70) Phenanthrene	11.46	178	1632321	44.00	ng	100
71) Anthracene	11.51	178	401145	10.74	ng	97
72) Carbazole	11.65	167	311502	9.57	ng	98
74) Fluoranthene	12.65	202	1559434	41.12	ng	99
77) Pyrene	12.88	202	1276721	41.13	ng	100
80) Benzo(a)anthracene	14.07	228	482354m	18.12	ng	
82) Chrysene	14.10	228	405828m	16.82	ng	
85) Indeno(1,2,3-cd)pyrene	16.97	276	256073	12.86	ng	98
87) Benzo(b)fluoranthene	15.12	252	436788m	16.99	ng	
88) Benzo(k)fluoranthene	15.13	252	185245m	9.46	ng	
89) Benzo(a)pyrene	15.47	252	283770	14.02	ng	98
90) Dibenzo(a,h)anthracene	16.98	278	55660m	2.95	ng	
91) Benzo(g,h,i)perylene	17.39	276	240187	13.12	ng	98

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

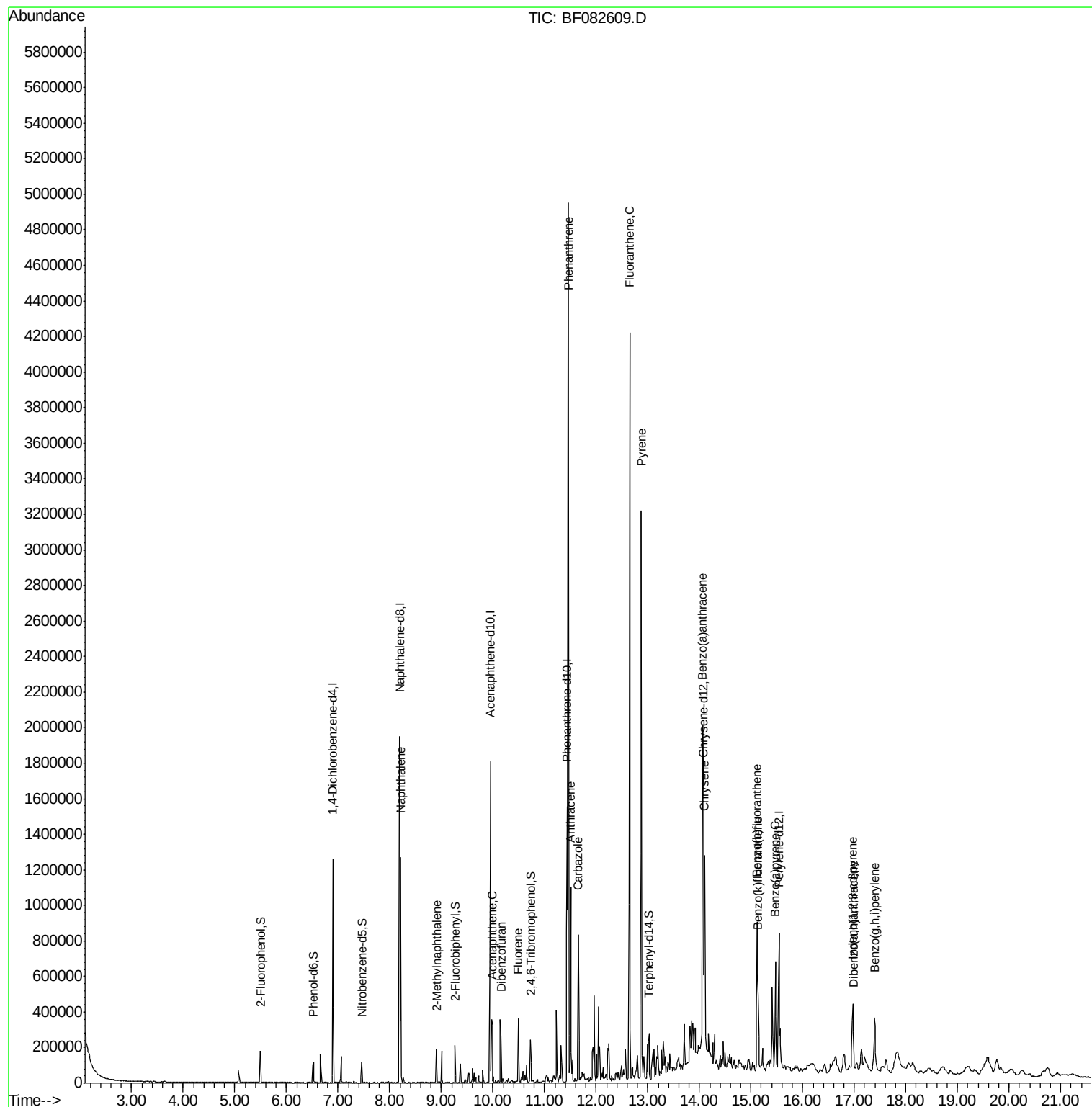
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103015\
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ALS Vial : 27 Sample Multiplier: 1

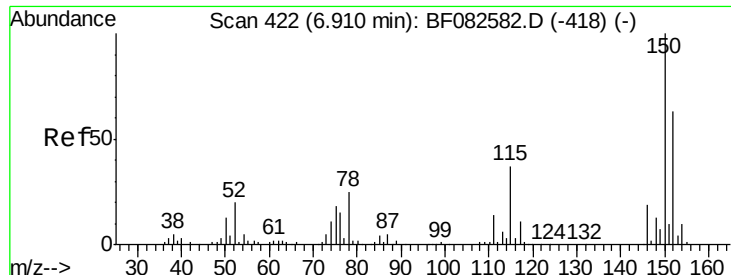
Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL2

Manual Integrations
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Quant Time: Nov 02 06:34:06 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

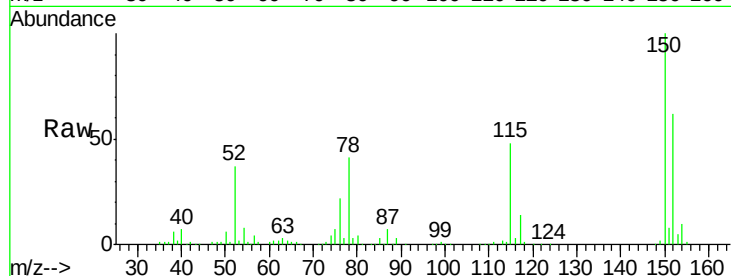
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.90 min Scan# 421
Delta R.T. -0.01 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL2

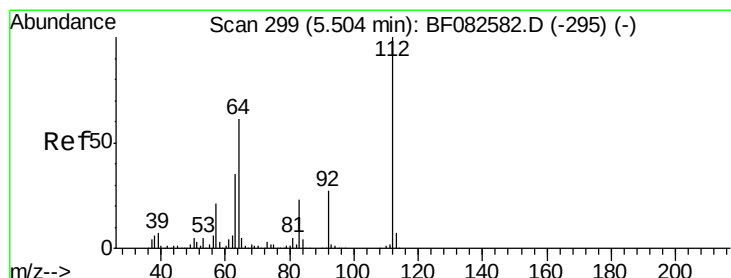
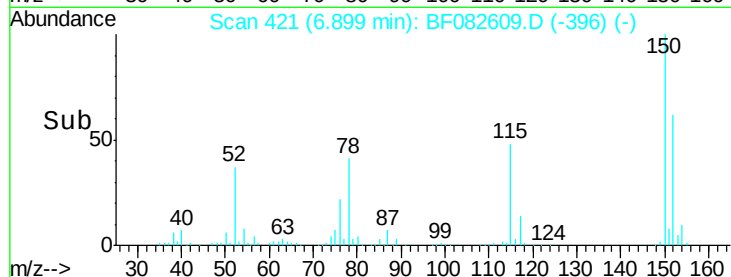
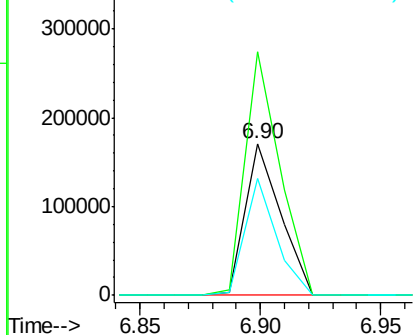
Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.7	127.0	190.4
115	77.2	47.0	70.6

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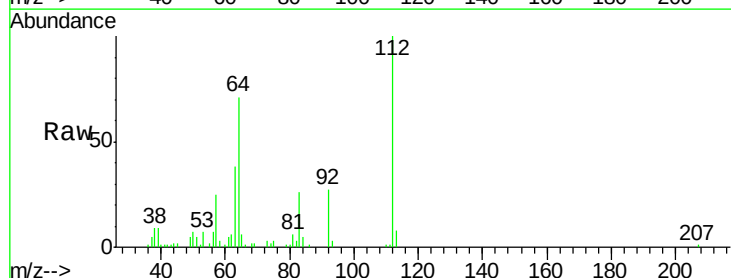
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



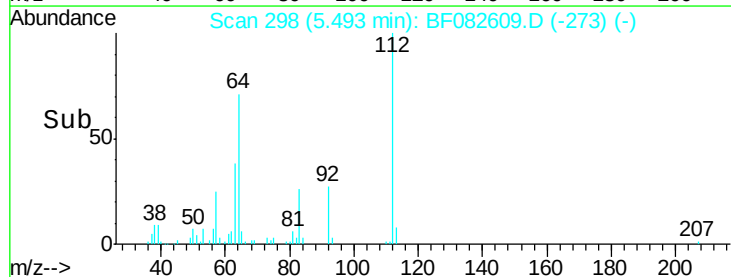
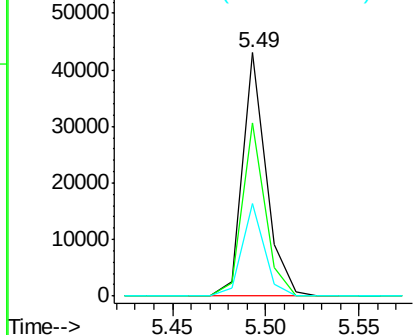
#5

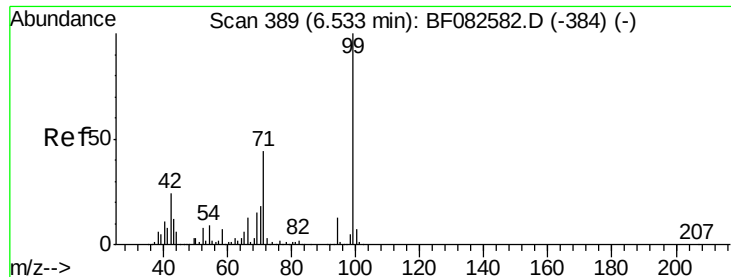
2-Fluorophenol
Concen: 3.28 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.01 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.3	48.9	73.3
63	37.9	28.1	42.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 3.26 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

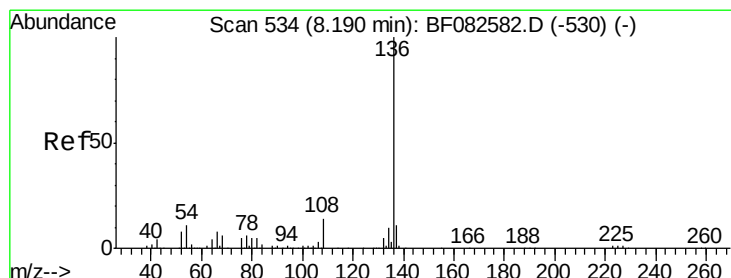
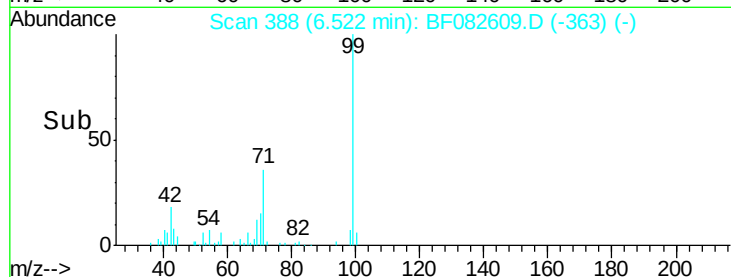
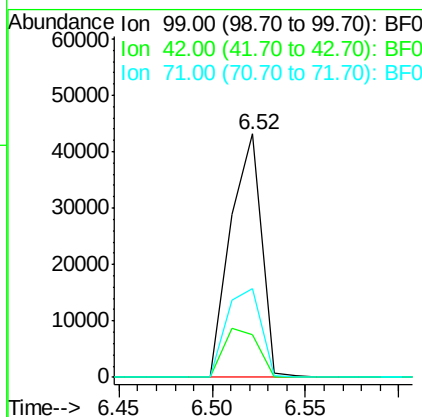
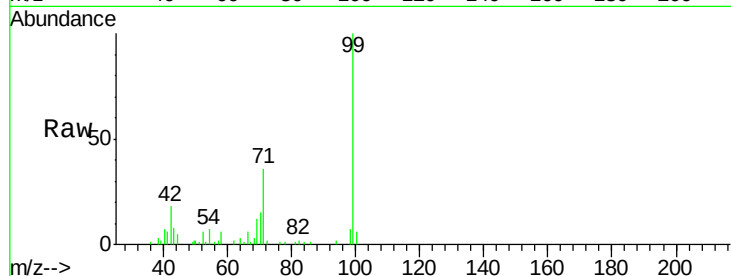
ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL2

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Tgt Ion:	99	Resp:	50102
Ion Ratio	Lower	Upper	
99	100		
42	17.6	19.2	28.8#
71	36.3	35.0	52.4



#21

Naphthalene-d8

Concen: 20.00 ng

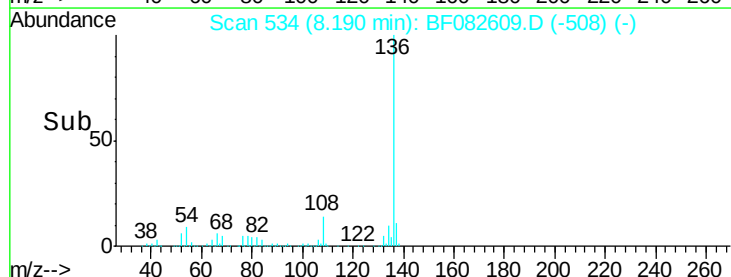
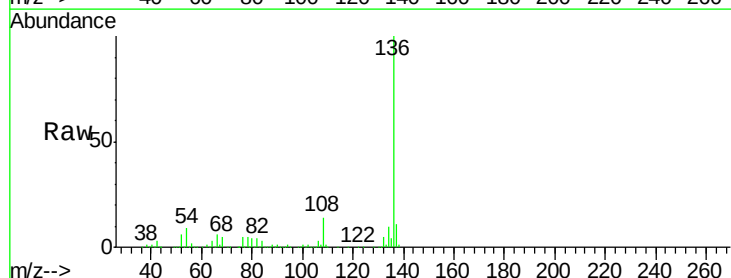
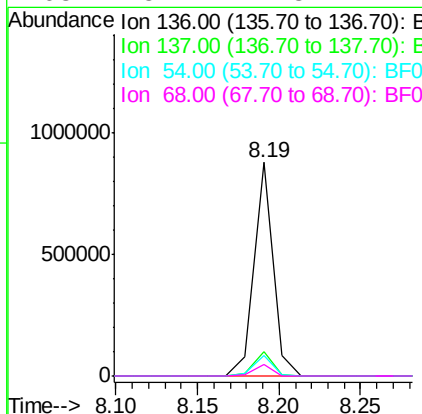
RT: 8.19 min Scan# 534

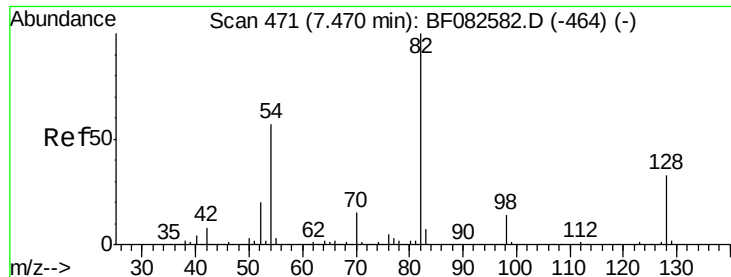
Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Tgt Ion:	136	Resp:	713847
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	9.5	9.1	13.7
68	5.4	4.8	7.2





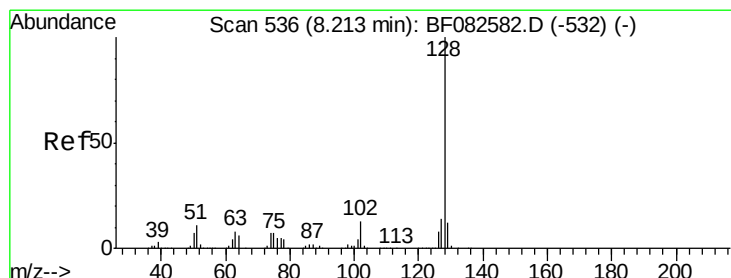
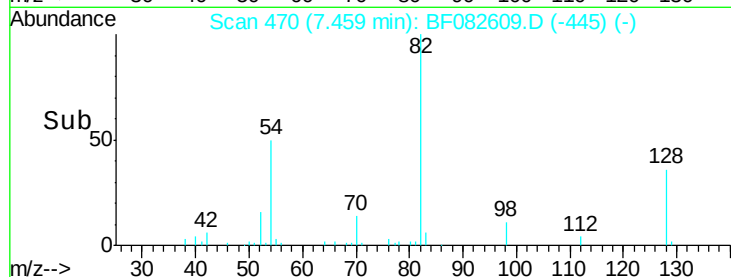
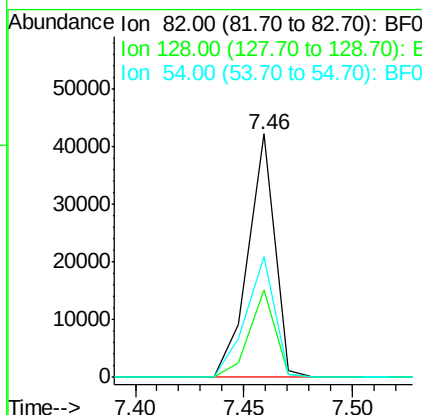
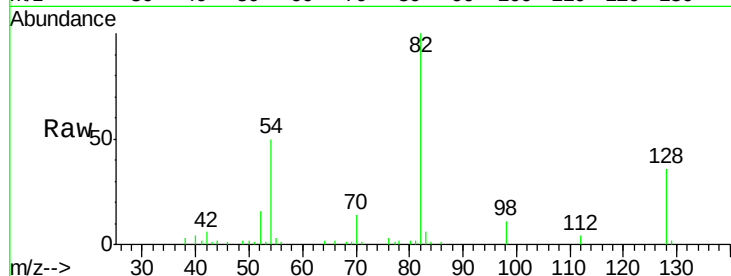
#23
 Nitrobenzene-d5
 Concen: 2.06 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPDL2

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	35.8	26.8	40.2
54	49.7	45.7	68.5

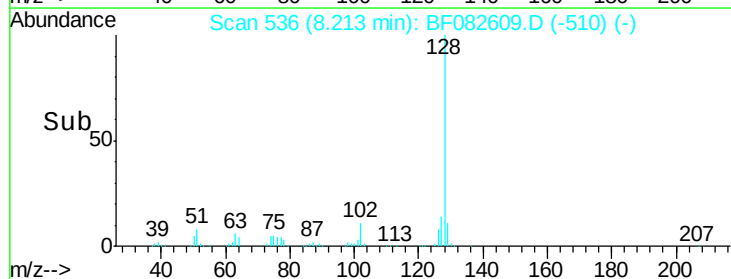
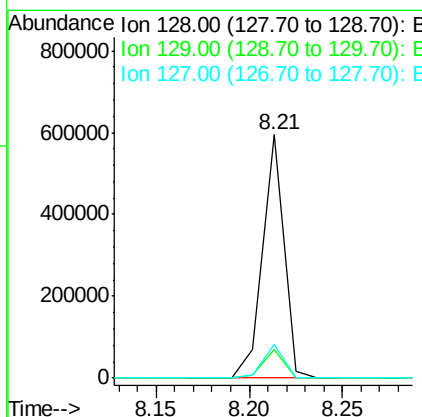
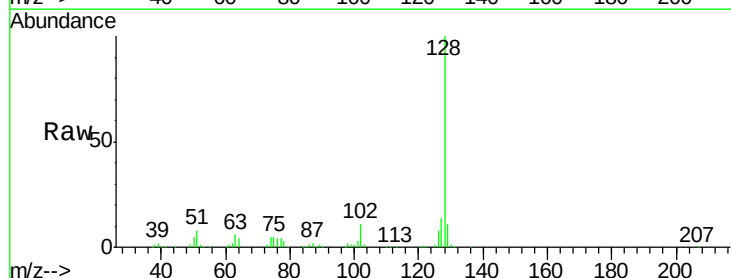
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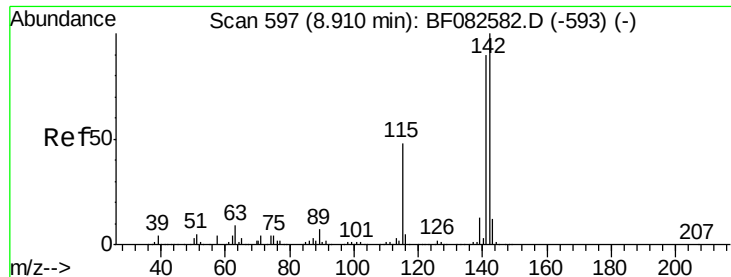
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#31
 Naphthalene
 Concen: 12.16 ng
 RT: 8.21 min Scan# 536
 Delta R.T. 0.00 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.5	9.5	14.3
127	13.9	11.4	17.0





#37

2-Methylnaphthalene

Concen: 2.66 ng m

RT: 8.91 min Scan# 597

Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

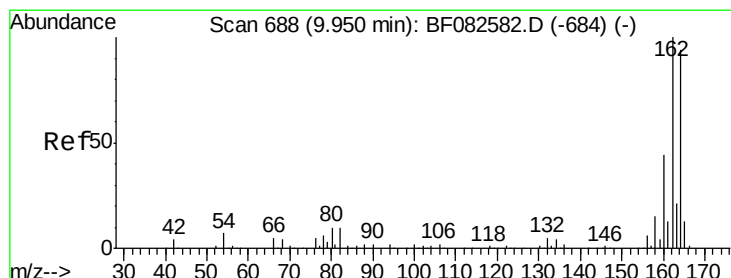
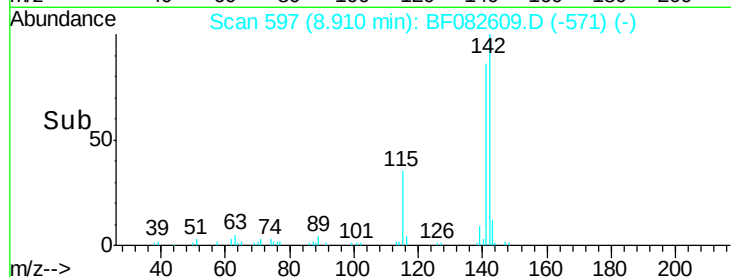
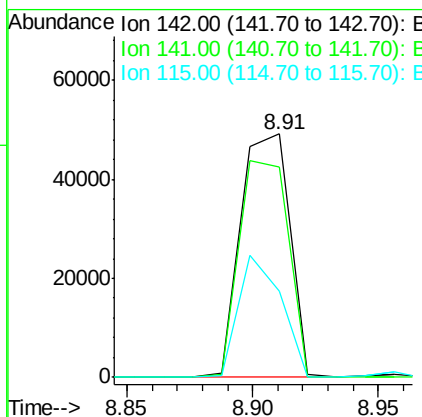
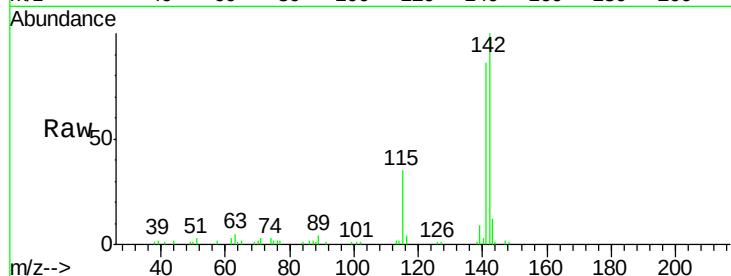
ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL2

Tgt Ion:	142	Resp:	66659
Ion Ratio	Lower	Upper	
142	100		
141	86.1	72.3	108.5
115	35.3	38.1	57.1#

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#38

Acenaphthene-d10

Concen: 20.00 ng

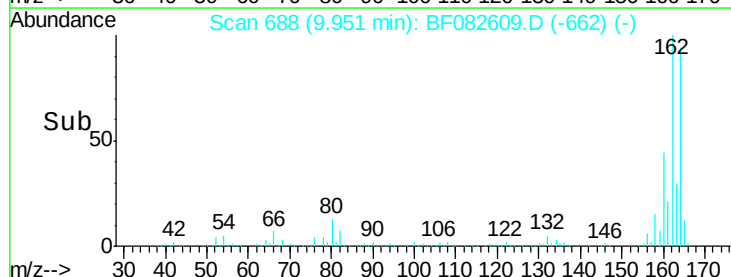
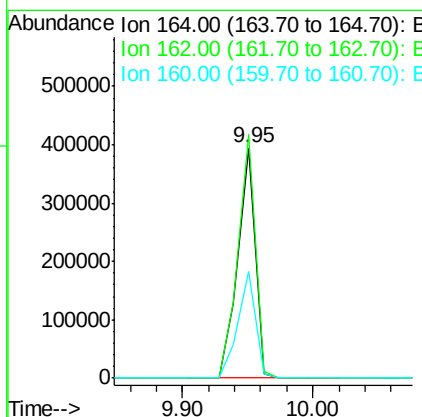
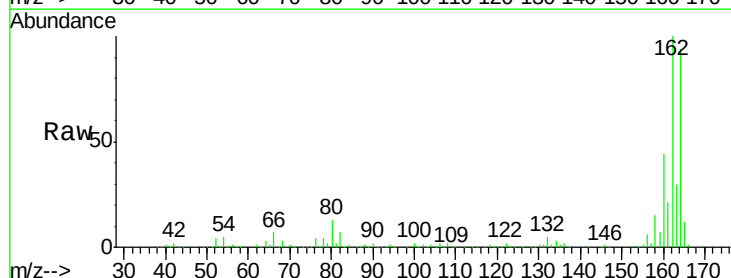
RT: 9.95 min Scan# 688

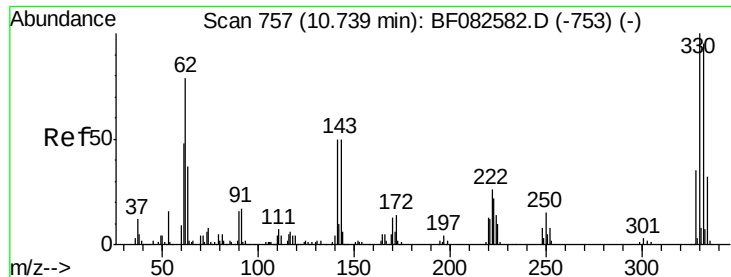
Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Tgt Ion:	164	Resp:	364965
Ion Ratio	Lower	Upper	
164	100		
162	105.9	84.9	127.3
160	46.2	37.5	56.3





#41

2,4,6-Tribromophenol

Concen: 2.83 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

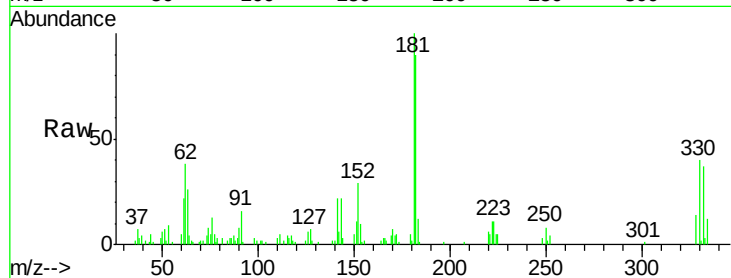
ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL2

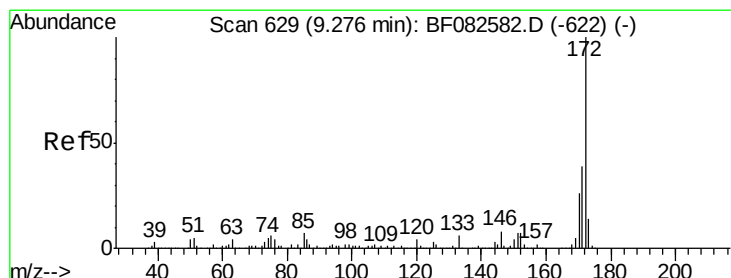
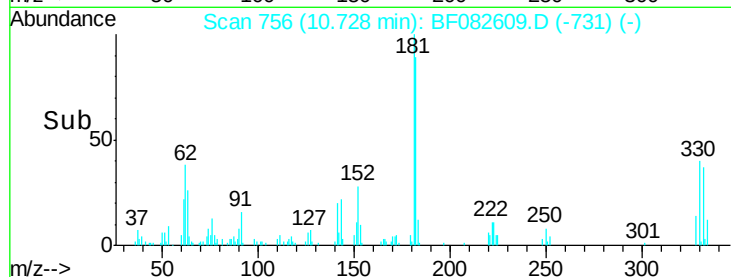
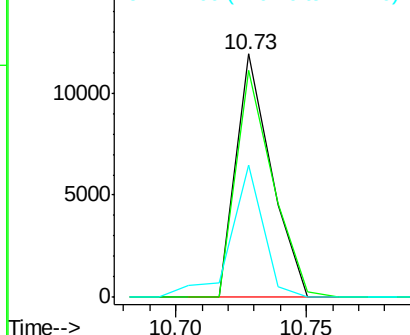
Tgt Ion:	330	Resp:	11290
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.6	114.8
141	50.5	41.2	61.8

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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: 2.24 ng

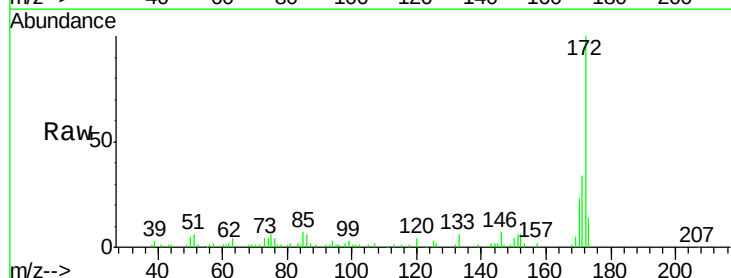
RT: 9.26 min Scan# 628

Delta R.T. -0.01 min

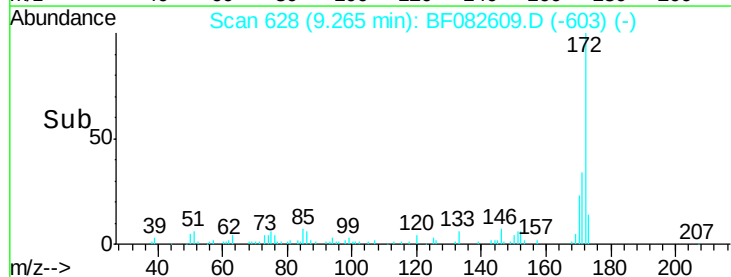
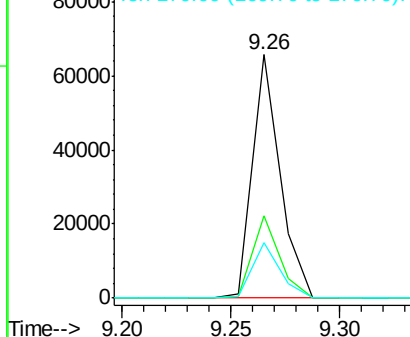
Lab File: BF082609.D

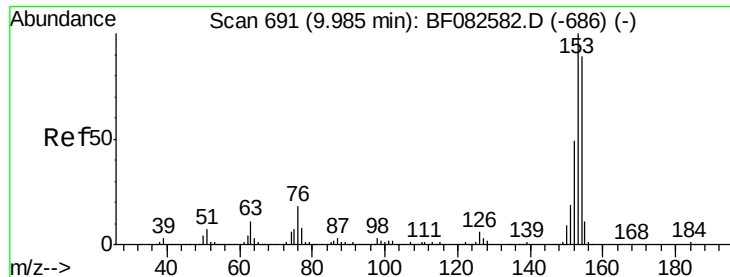
Acq: 31 Oct 2015 9:17

Tgt Ion:	172	Resp:	57631
Ion Ratio	Lower	Upper	
172	100		
171	33.7	30.8	46.2
170	22.7	21.2	31.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 4.57 ng

RT: 9.98 min Scan# 691

Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

ClientSampleId :

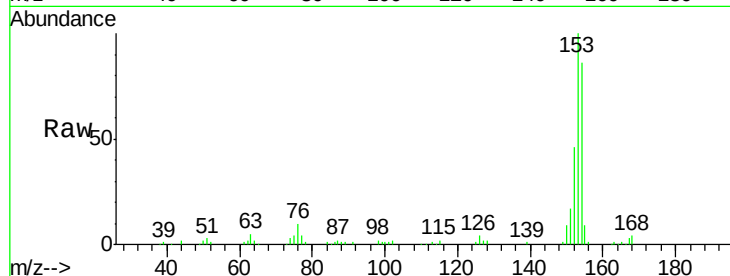
S5-BOILERROOM2.5FTDEEPDL2

Manual Integrations
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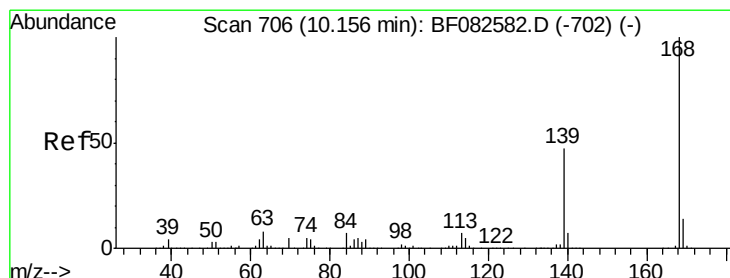
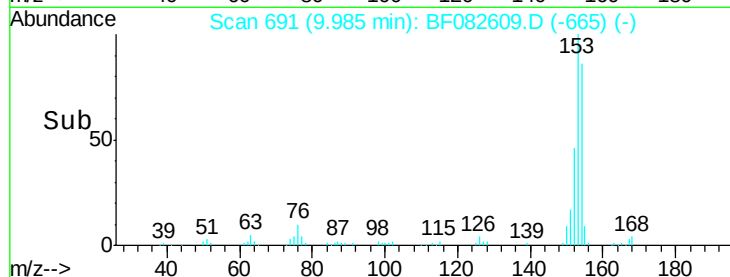
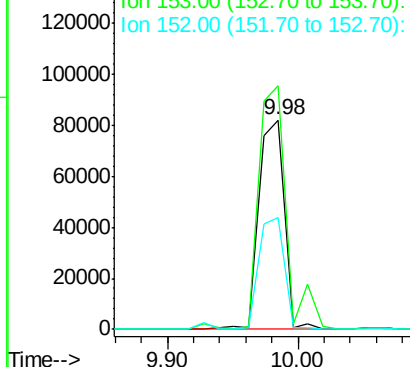
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Tgt Ion:	154	Resp:	111822
Ion Ratio	Lower	Upper	
154	100		
153	116.5	90.1	135.1
152	53.5	44.3	66.5



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

Dibenzofuran

Concen: 5.01 ng

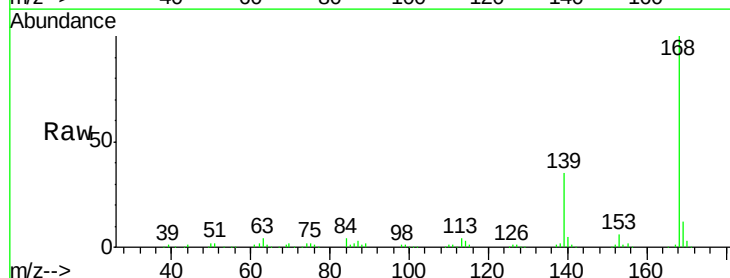
RT: 10.16 min Scan# 706

Delta R.T. 0.00 min

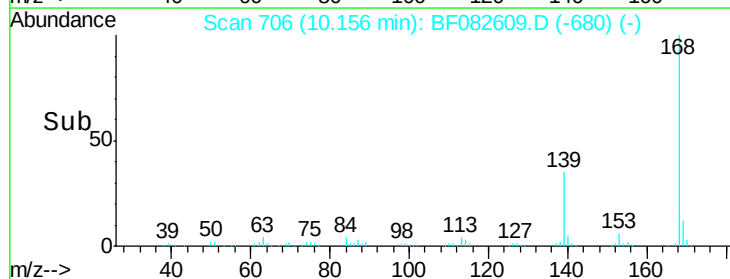
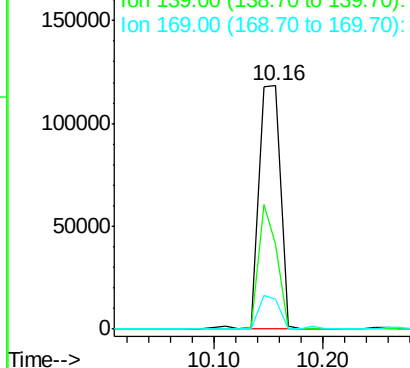
Lab File: BF082609.D

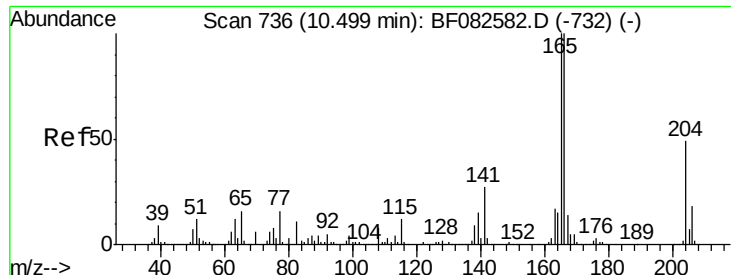
Acq: 31 Oct 2015 9:17

Tgt Ion:	168	Resp:	166154
Ion Ratio	Lower	Upper	
168	100		
139	34.9	37.8	56.6#
169	12.4	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: 4.54 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

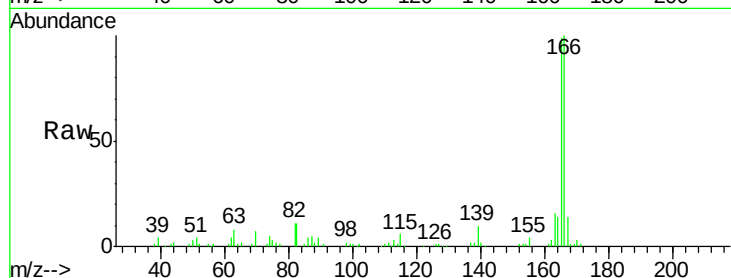
ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL2

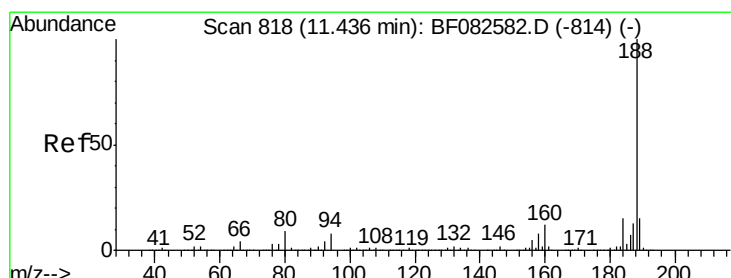
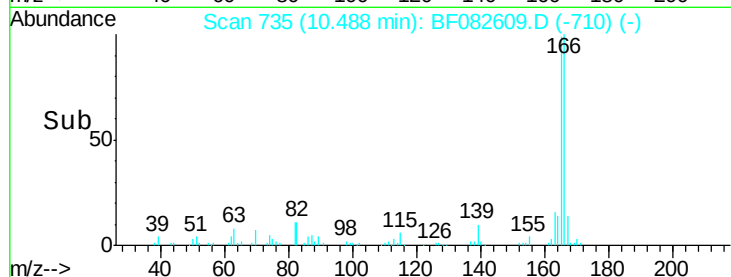
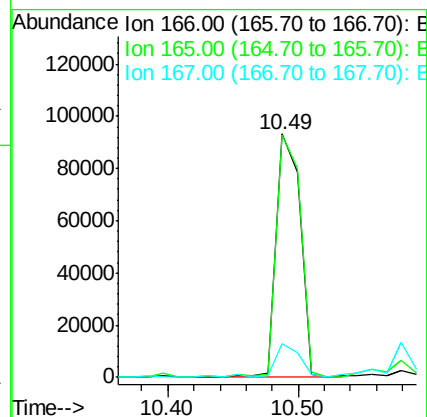
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Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	80.2	120.4
167	14.0	11.2	16.8



#63

Phenanthrene-d10

Concen: 20.00 ng

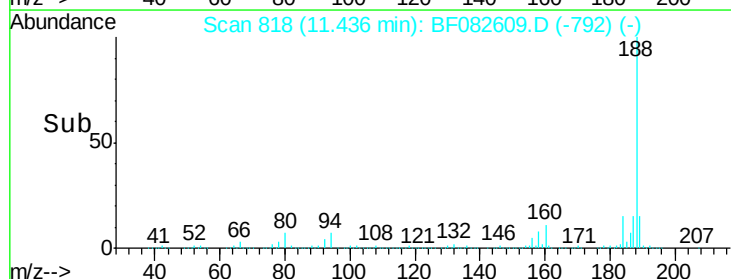
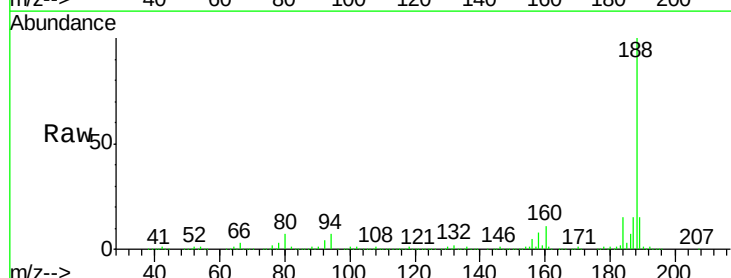
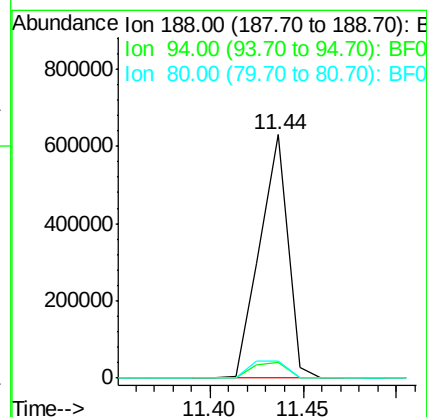
RT: 11.44 min Scan# 818

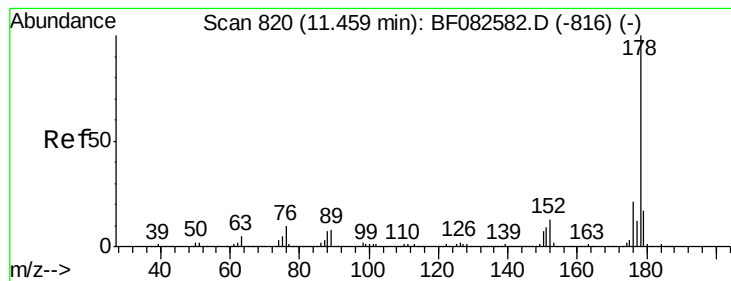
Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.7	6.1	9.1
80	6.9	7.0	10.6





#70

Phenanthrene

Concen: 44.00 ng

RT: 11.46 min Scan# 820

Delta R.T. 0.00 min

Lab File: BF082609.D

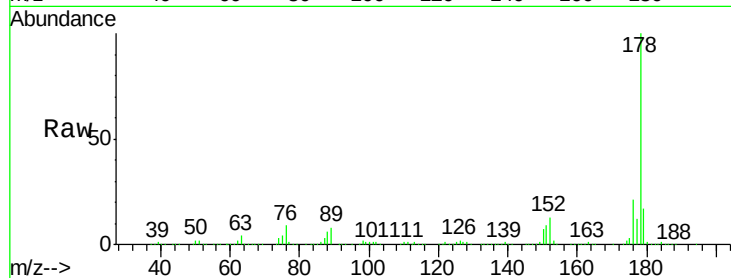
Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

ClientSampleId :

S5-BOILERROOM2.5FTDEEPDL2



Tgt Ion:178 Resp: 1632321

Ion Ratio Lower Upper

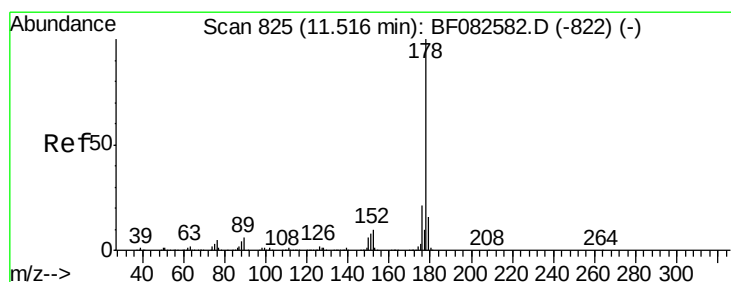
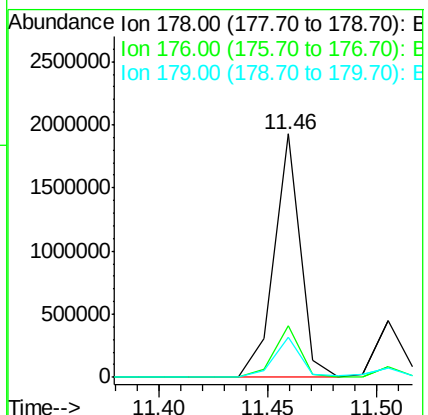
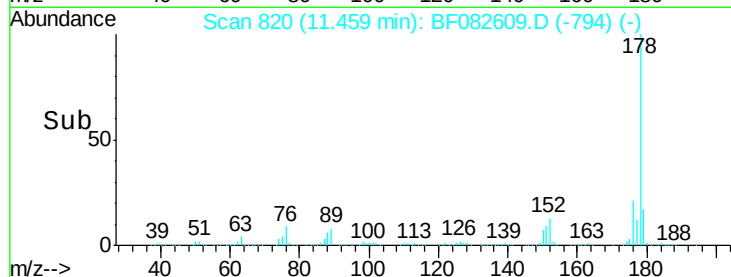
178 100

176 21.2 17.0 25.4

179 16.7 13.4 20.0

Manual Integrations
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#71

Anthracene

Concen: 10.74 ng

RT: 11.51 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

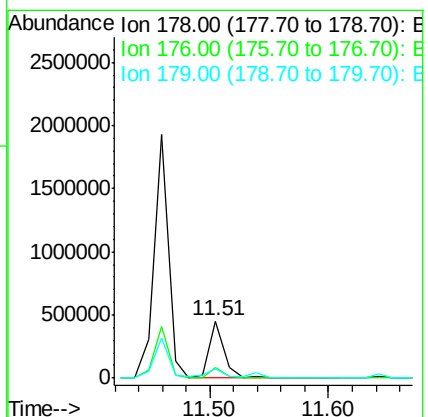
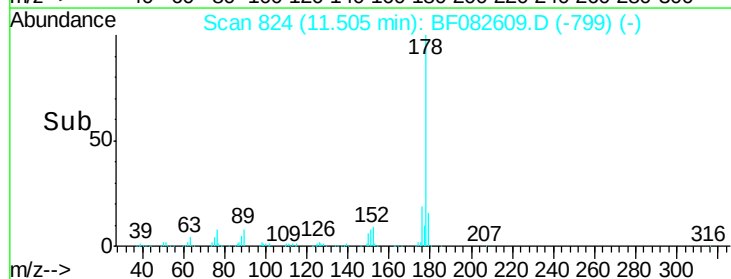
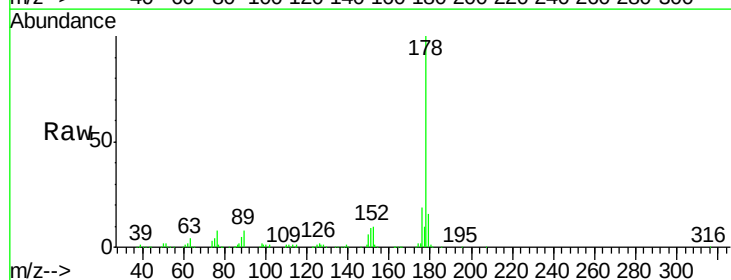
Tgt Ion:178 Resp: 401145

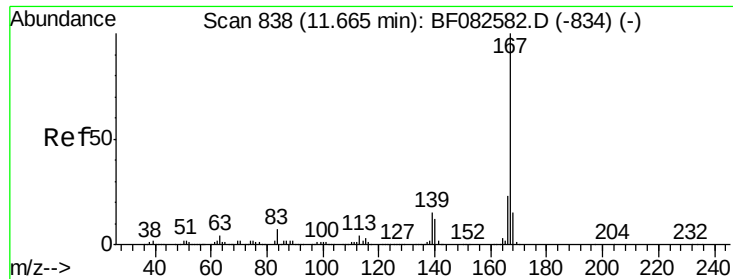
Ion Ratio Lower Upper

178 100

176 19.1 16.5 24.7

179 15.7 13.2 19.8





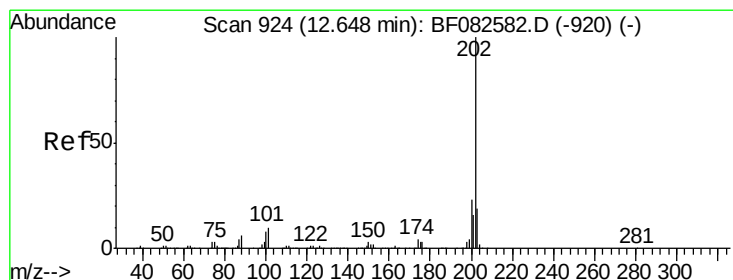
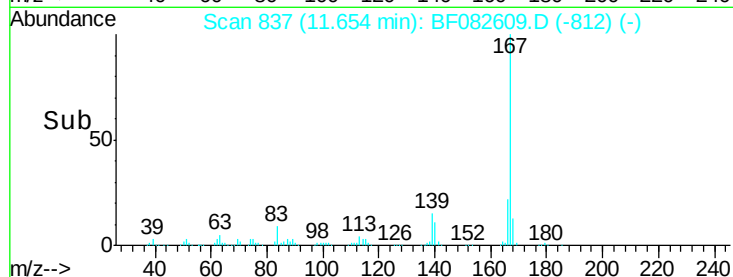
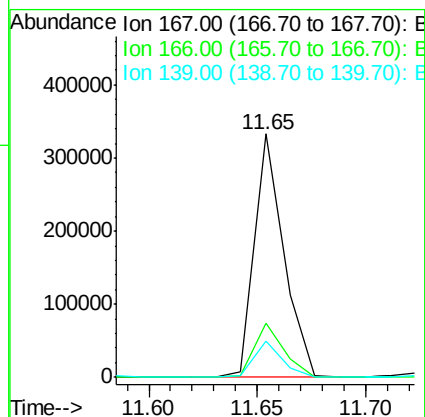
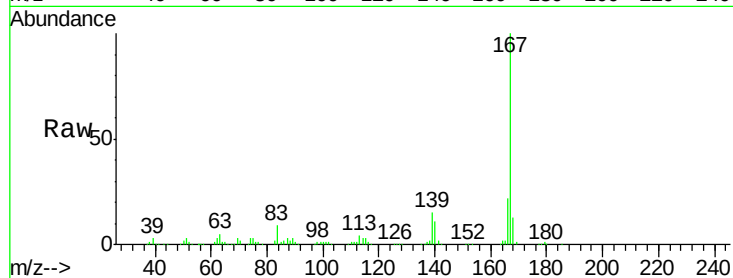
#72
 Carbazole
 Concen: 9.57 ng
 RT: 11.65 min Scan# 837
 Delta R.T. -0.01 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPDL2

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.7	28.1
139	14.8	11.8	17.6

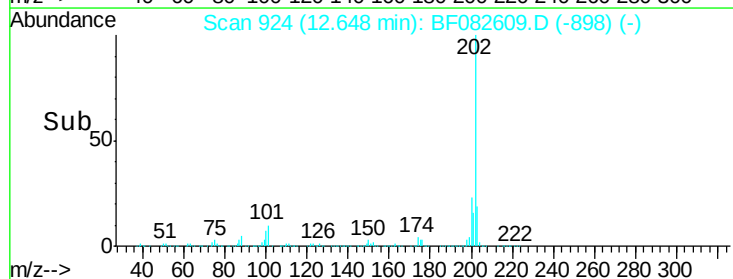
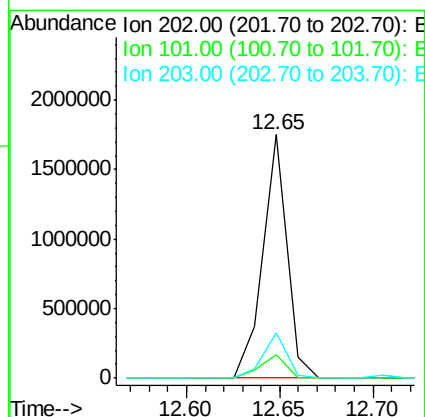
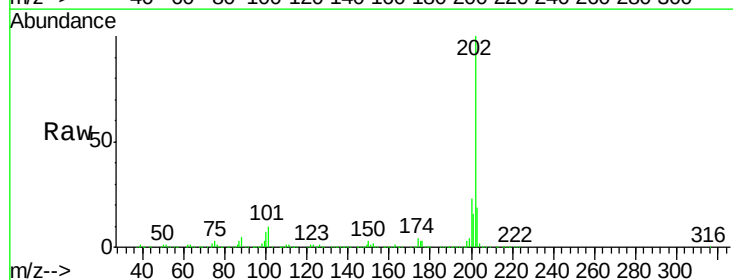
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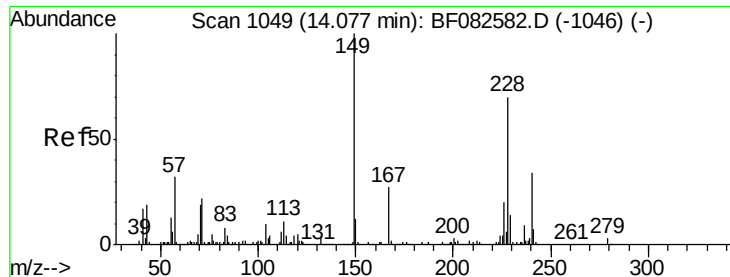
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#74
 Fluoranthene
 Concen: 41.12 ng
 RT: 12.65 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	30.5
203	18.6	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: BF082609.D

Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

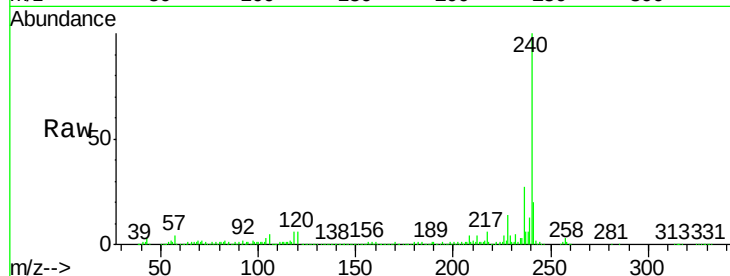
ClientSampleId :

S5-BOILERROOM2.5FTDEEPL2

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	419145		
120	6.1	10.9	16.3	
236	26.9	21.6	32.4	

Manual Integrations
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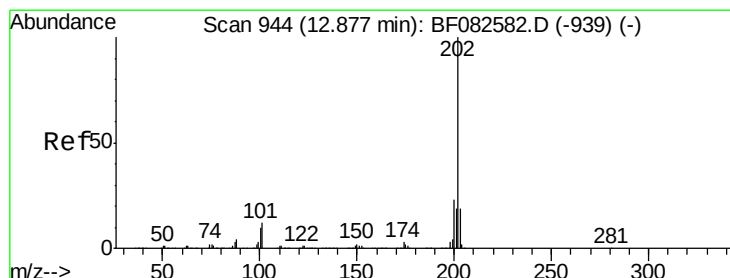
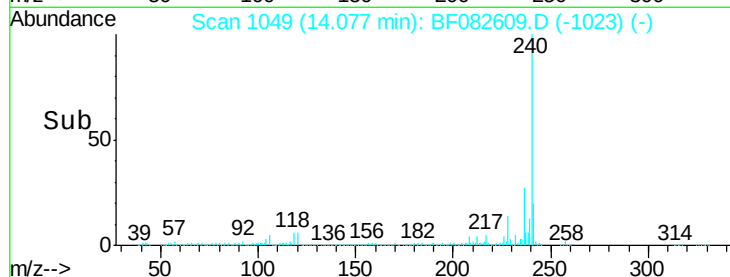
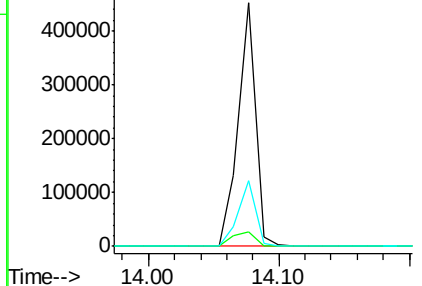
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 41.13 ng

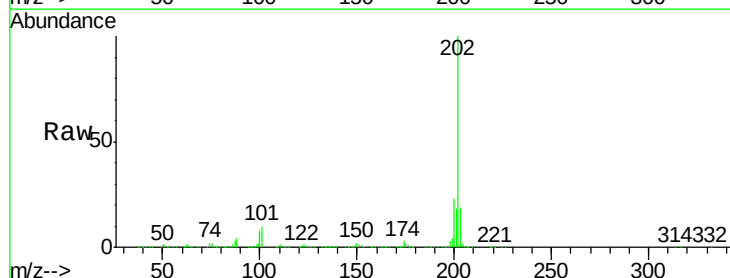
RT: 12.88 min Scan# 944

Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

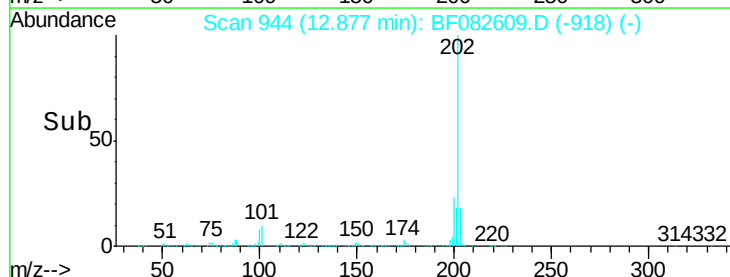
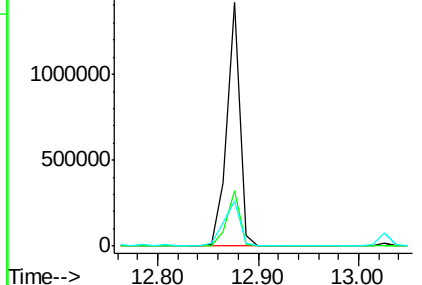
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1276721		
200	23.0	18.7	28.1	
203	18.6	14.8	22.2	

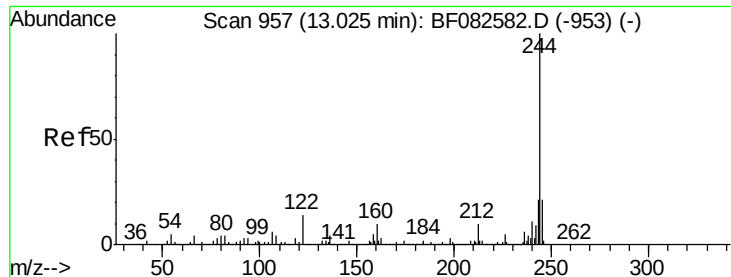


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 2.59 ng

RT: 13.01 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF082609.D

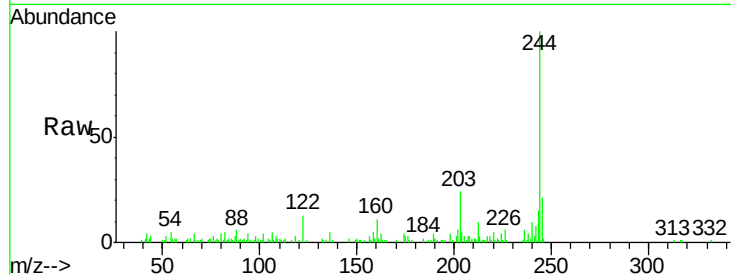
Acq: 31 Oct 2015 9:17

Instrument :

BNA_F

ClientSampleId :

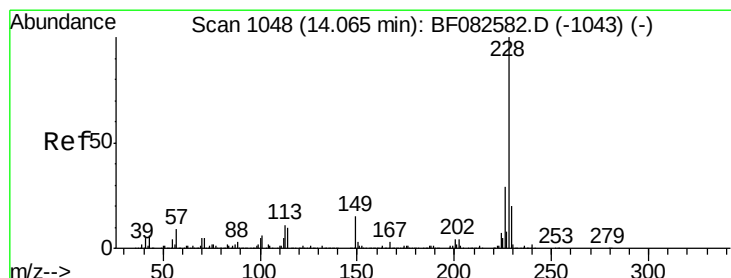
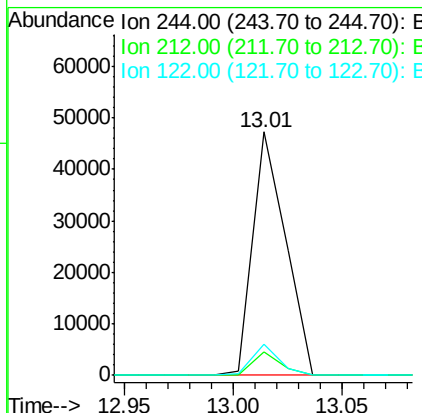
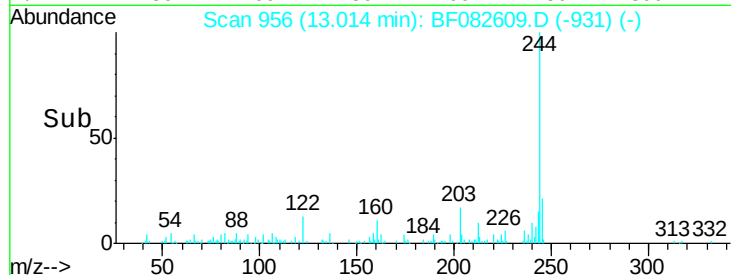
S5-BOILERROOM2.5FTDEEPL2



Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	12.8	11.3	16.9

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#80

Benzo(a)anthracene

Concen: 18.12 ng m

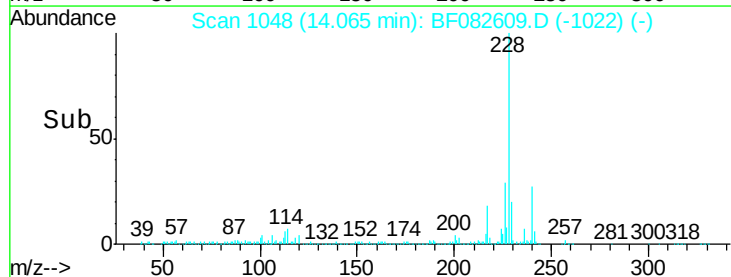
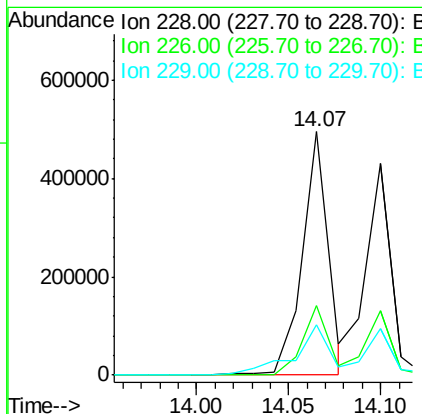
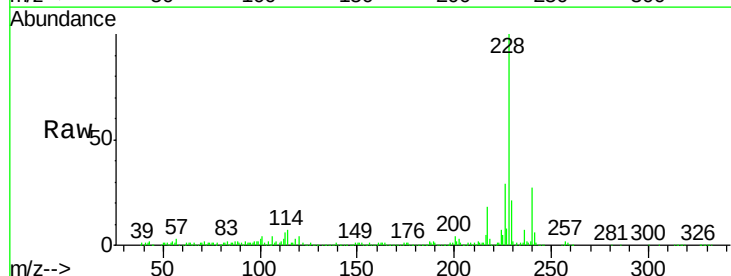
RT: 14.07 min Scan# 1048

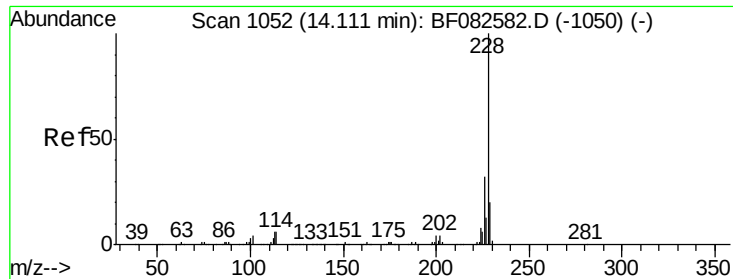
Delta R.T. 0.00 min

Lab File: BF082609.D

Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.4	35.2
229	20.5	16.3	24.5





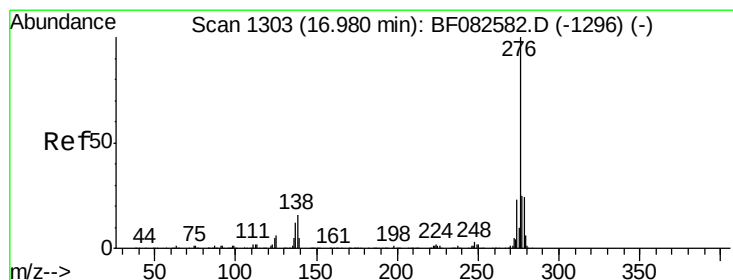
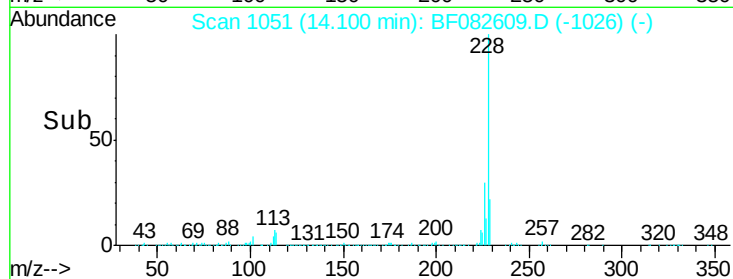
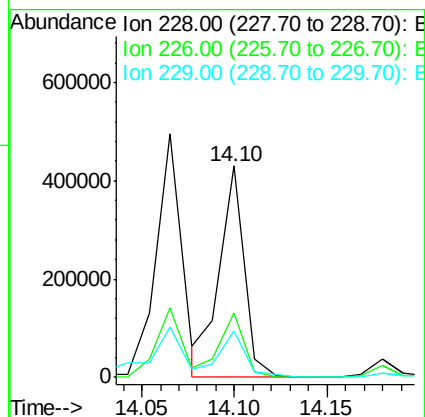
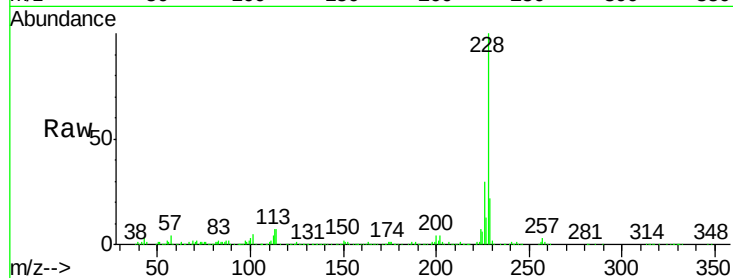
#82
 Chrysene
 Concen: 16.82 ng m
 RT: 14.10 min Scan# 1051
 Delta R.T. -0.01 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Instrument :
 BNA_F
 ClientSampleId :
 S5-BOILERROOM2.5FTDEEPL2

Tgt Ion:	228	Resp:	405828
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.5	38.3
229	22.2	16.3	24.5

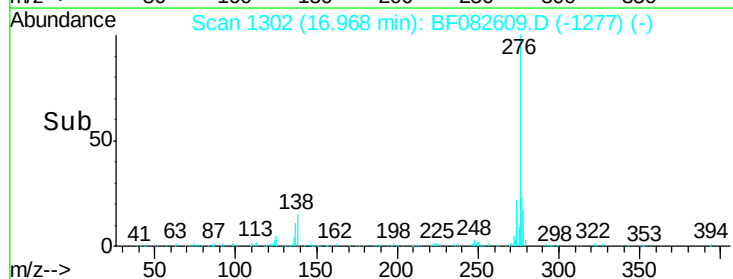
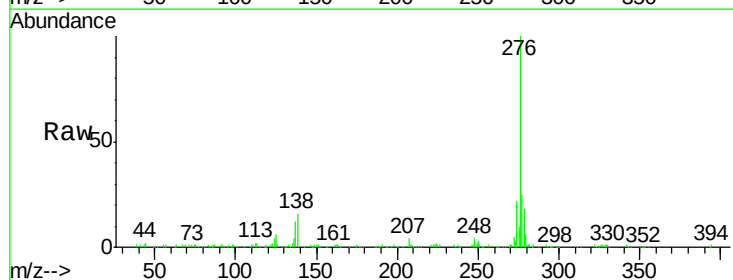
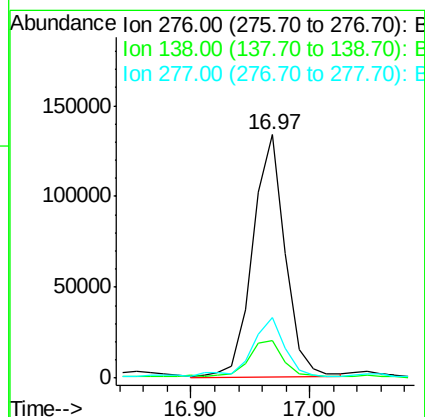
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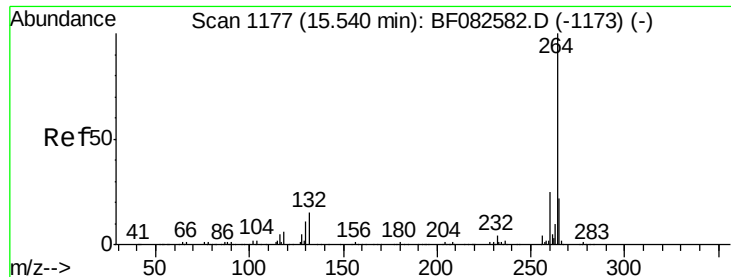
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.86 ng
 RT: 16.97 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: BF082609.D
 Acq: 31 Oct 2015 9:17

Tgt Ion:	276	Resp:	256073
Ion Ratio	Lower	Upper	
276	100		
138	16.9	15.3	22.9
277	25.2	20.2	30.4





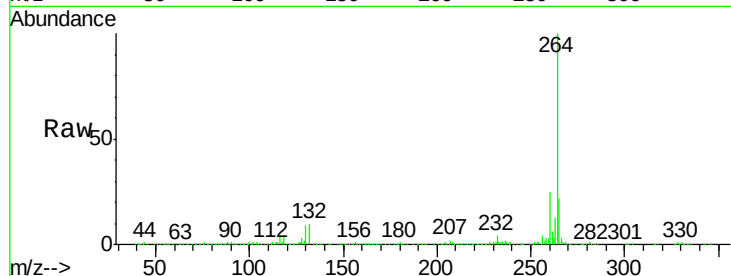
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL2

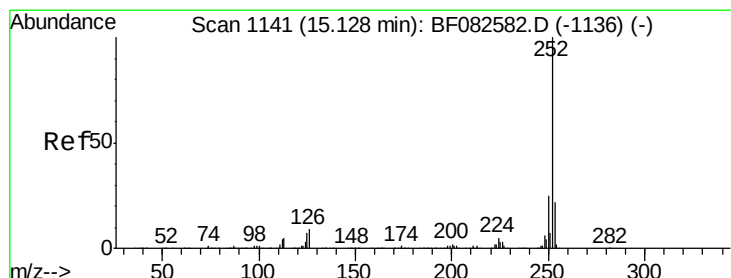
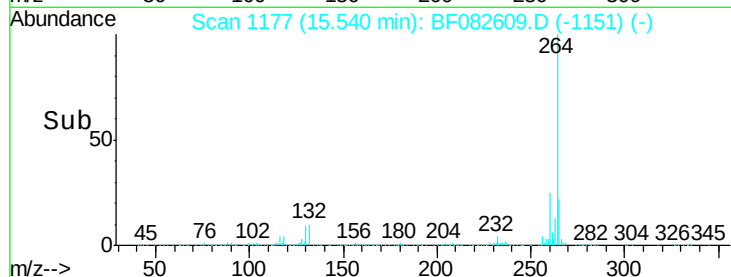
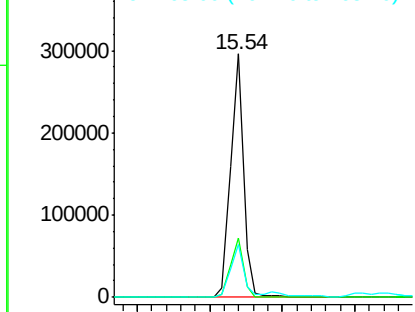
Tgt	Ion	Ratio	Lower	Upper
264	100			
260	24.6	19.8	29.6	
265	21.9	17.4	26.0	

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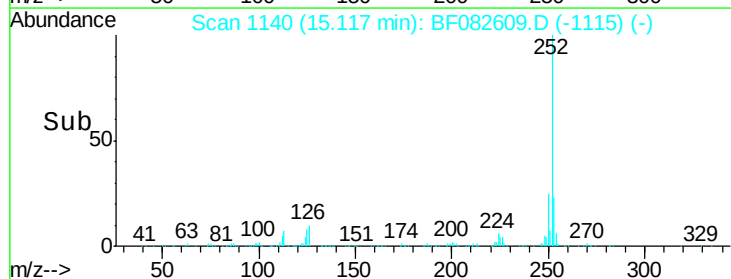
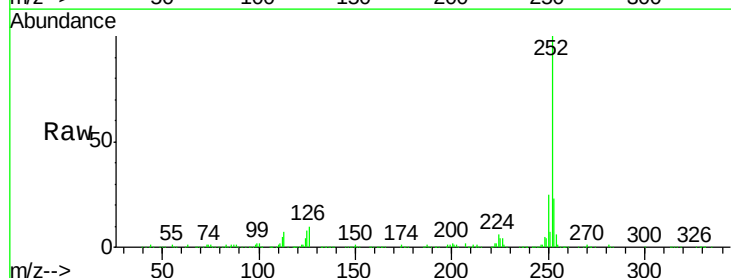
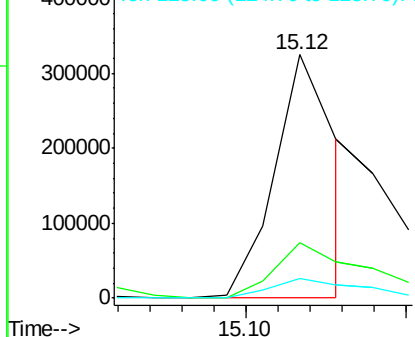
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

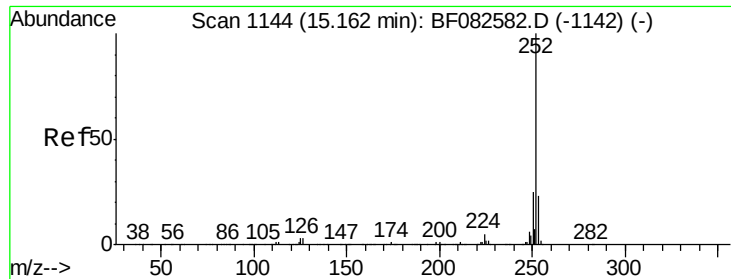


#87
Benzo(b)fluoranthene
Concen: 16.99 ng m
RT: 15.12 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Tgt	Ion	Ratio	Lower	Upper
252	100			
253	22.9	17.8	26.8	
125	7.8	5.4	8.2	

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





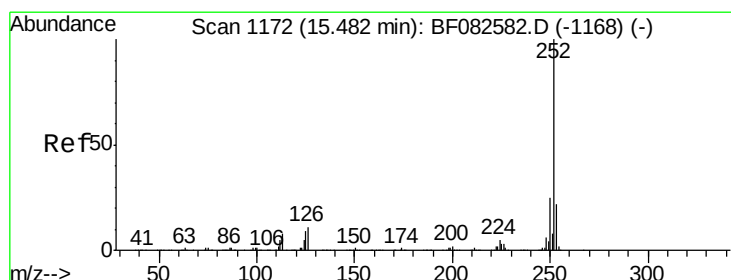
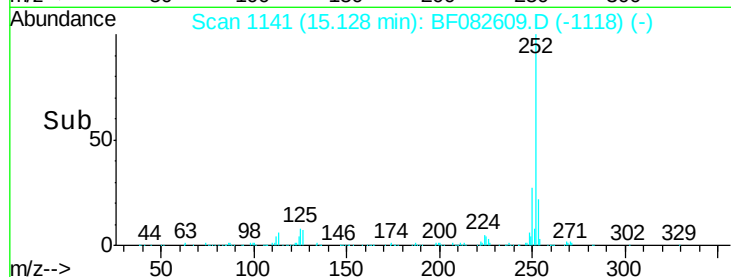
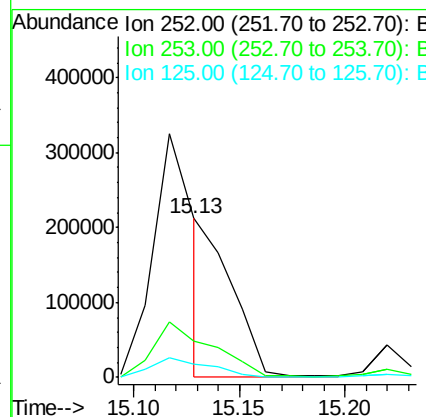
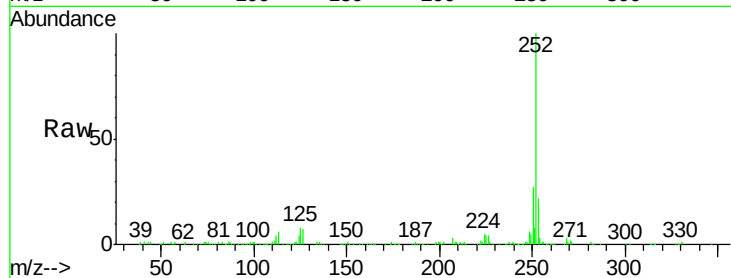
#88
Benzo(k)fluoranthene
Concen: 9.46 ng m
RT: 15.13 min Scan# 1141
Delta R.T. -0.03 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPDL2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	8.4	3.5	5.3

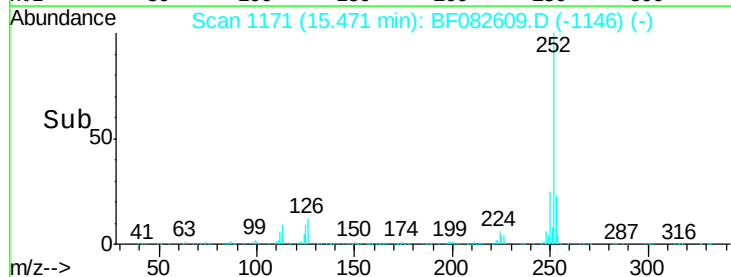
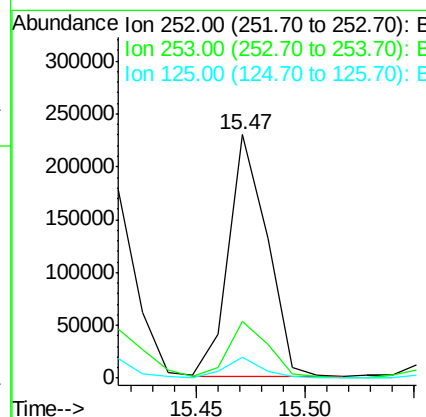
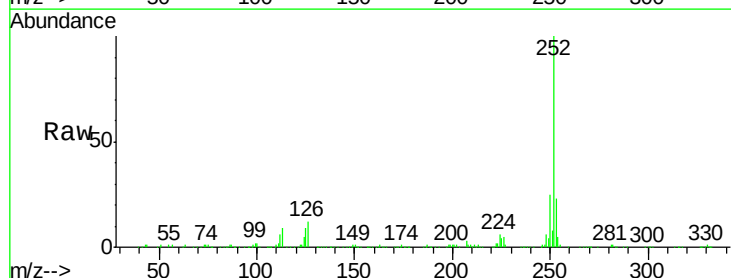
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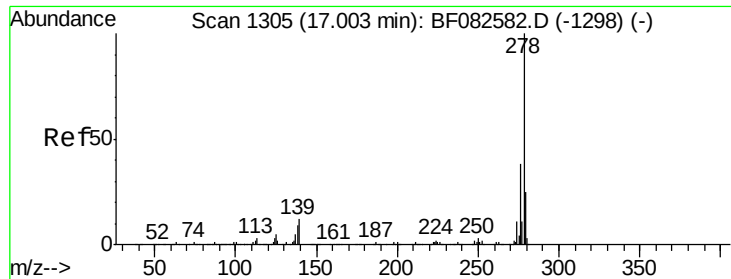
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#89
Benzo(a)pyrene
Concen: 14.02 ng
RT: 15.47 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

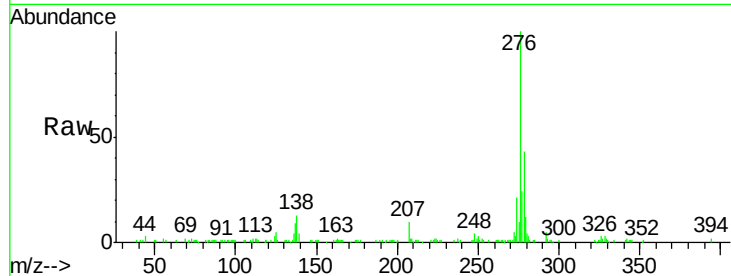
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	8.8	7.1	10.7





#90
Dibenzo(a,h)anthracene
Concen: 2.95 ng m
RT: 16.98 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

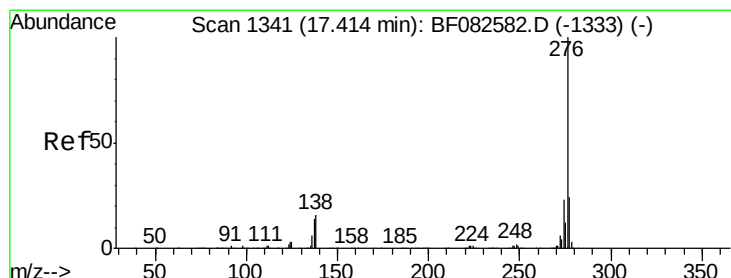
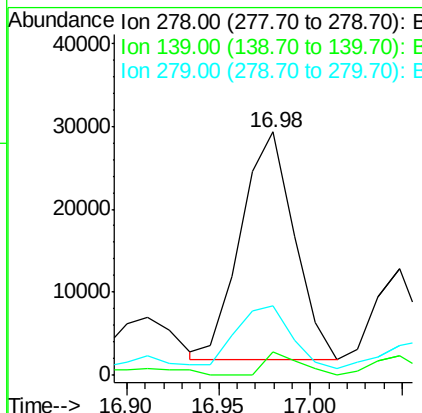
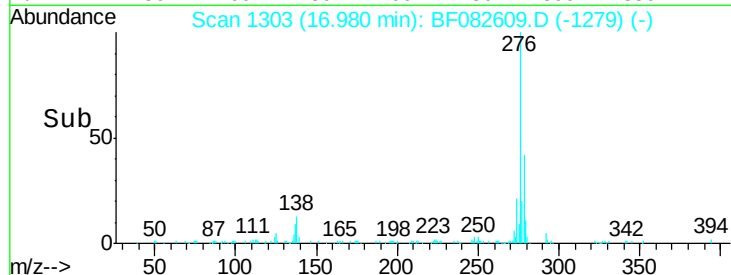
Instrument :
BNA_F
ClientSampleId :
S5-BOILERROOM2.5FTDEEPL2



Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	9.7	9.9	14.9#
279	28.5	19.6	29.4

Manual Integrations
APPROVED

Mmdadoda
11/2/2015 4:32:26 PM



#91
Benzo(g,h,i)perylene
Concen: 13.12 ng
RT: 17.39 min Scan# 1339
Delta R.T. -0.02 min
Lab File: BF082609.D
Acq: 31 Oct 2015 9:17

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.1	19.2	28.8
138	18.3	13.1	19.7

