

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072315\
 Data File : BF080615.D
 Acq On : 24 Jul 2015 3:00
 Operator : TP/UM
 Sample : G3070-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2

Manual Integrations
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Quant Time: Jul 24 05:25:54 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 24 01:01:51 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	37329	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	141559	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	61778	20.00	ng	0.00
63) Phenanthrene-d10	11.48	188	110787	20.00	ng	0.00
75) Chrysene-d12	14.24	240	107259	20.00	ng	0.06
86) Perylene-d12	15.86	264	152017	20.00	ng	0.11
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	308834	142.90	ng	0.01
7) Phenol-d6	6.56	99	414509	156.89	ng	0.00
23) Nitrobenzene-d5	7.50	82	261244	104.57	ng	0.00
41) 2,4,6-Tribromophenol	10.78	330	67835	138.58	ng	0.01
44) 2-Fluorobiphenyl	9.31	172	401561	94.31	ng	0.00
78) Terphenyl-d14	13.09	244	340449	66.42	ng	0.02
Target Compounds						Qvalue
30) 1,2,4-Trichlorobenzene	8.18	180	7285	3.25	ng	98
31) Naphthalene	8.26	128	14990	2.12	ng	98
48) Acenaphthylene	9.85	152	15883	2.64	ng	# 93
49) Dimethylphthalate	9.71	163	86009	18.92	ng	# 98
51) Acenaphthene	10.03	154	19584	5.41	ng	95
54) Dibenzofuran	10.20	168	19144	3.66	ng	99
57) Fluorene	10.54	166	26329	6.27	ng	96
70) Phenanthrene	11.50	178	463900	74.18	ng	99
71) Anthracene	11.55	178	86478	14.77	ng	99
72) Carbazole	11.71	167	24154	4.77	ng	95
74) Fluoranthene	12.70	202	393682	70.35	ng	95
77) Pyrene	12.93	202	389306	54.10	ng	98
80) Benzo(a)anthracene	14.23	228	185790	30.72	ng	97
81) 3,3'-Dichlorobenzidine	14.18	252	25867	14.96	ng	# 96
82) Chrysene	14.26	228	179126m	29.77	ng	
85) Indeno(1,2,3-cd)pyrene	17.37	276	142823	31.38	ng	# 90
87) Benzo(b)fluoranthene	15.43	252	230197m	24.90	ng	
88) Benzo(k)fluoranthene	15.45	252	89977m	9.78	ng	
89) Benzo(a)pyrene	15.80	252	207296m	25.27	ng	
90) Dibenzo(a,h)anthracene	17.38	278	30510	3.94	ng	99
91) Benzo(g,h,i)perylene	17.81	276	161221m	20.37	ng	

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

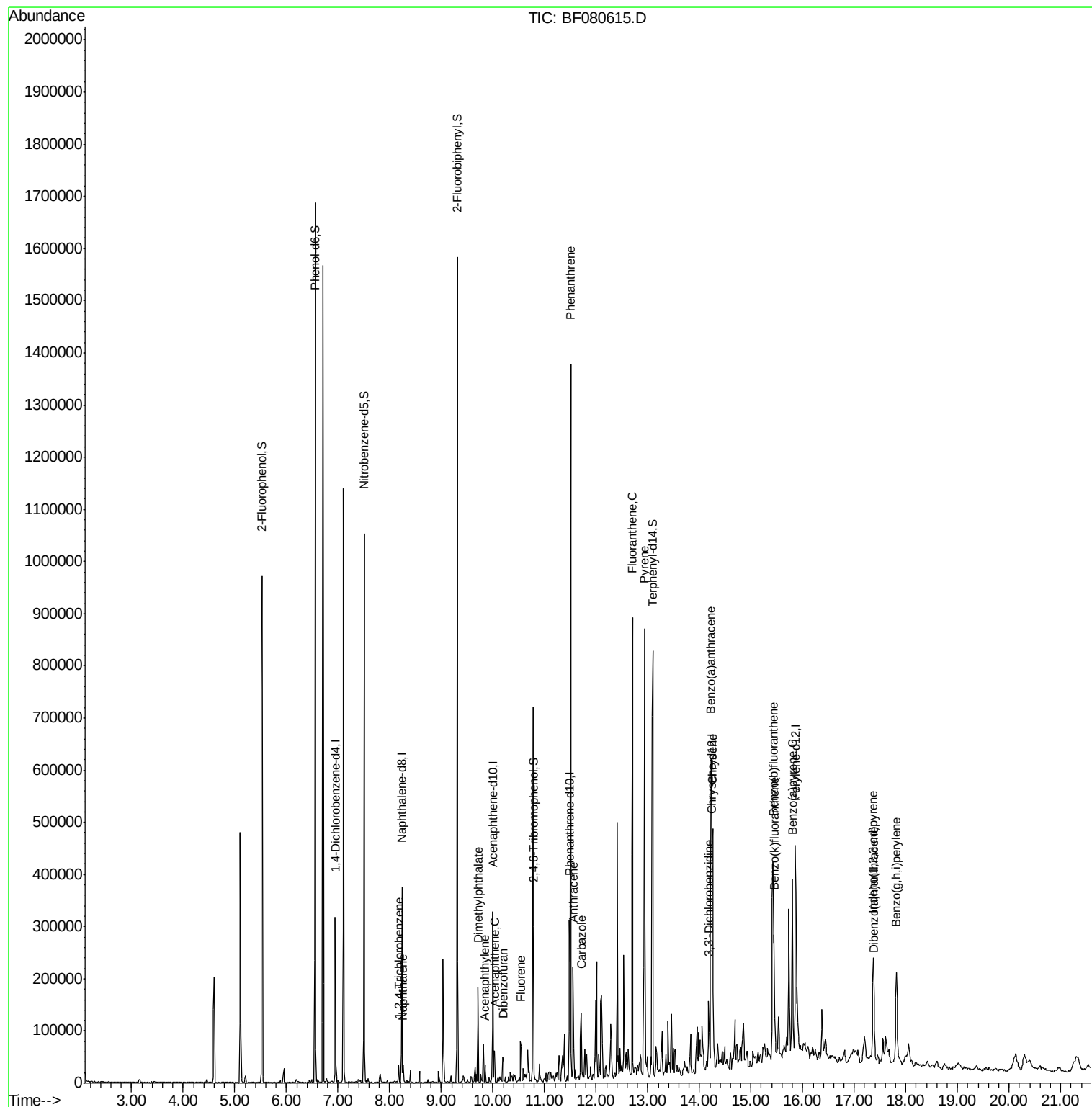
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072315\
Data File : BF080615.D
Acq On : 24 Jul 2015 3:00
Operator : TP/UM
Sample : G3070-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

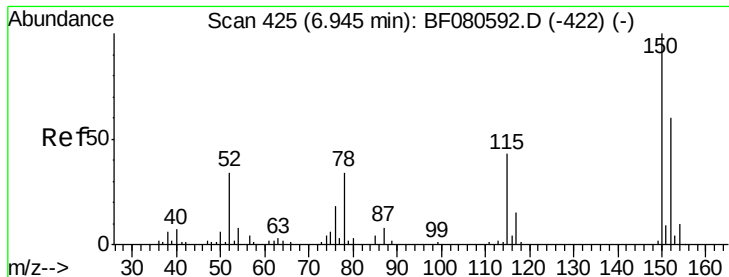
Instrument :
BNA_F
ClientSampleId :
SOIL-2

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Quant Time: Jul 24 05:25:54 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 24 01:01:51 2015
Response via : Initial Calibration





#1

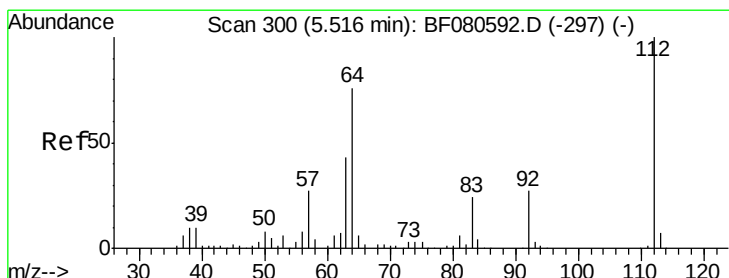
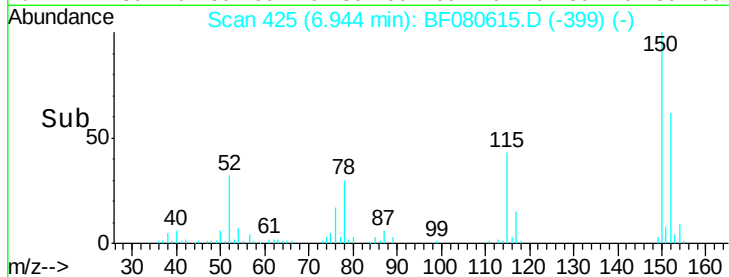
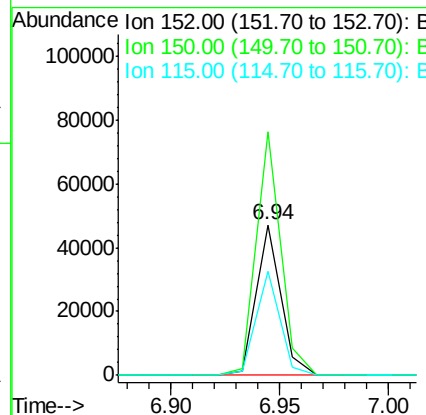
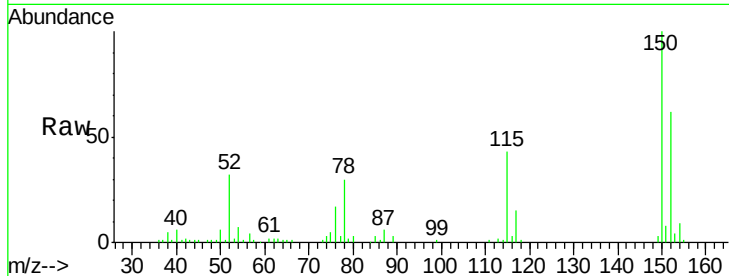
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 425
Delta R.T. 0.00 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Instrument :
BNA_F
ClientSampled :
SOIL-2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.5	128.7	193.1
115	69.0	56.8	85.2

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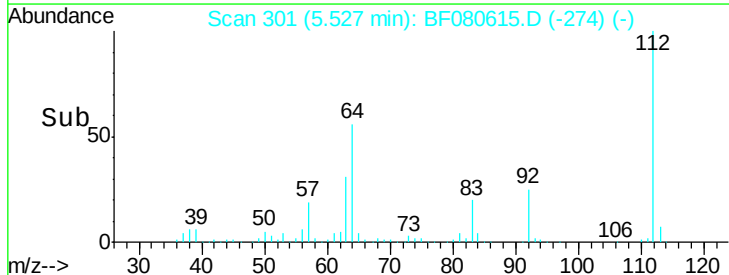
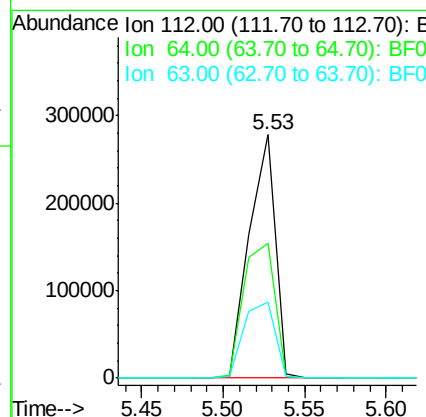
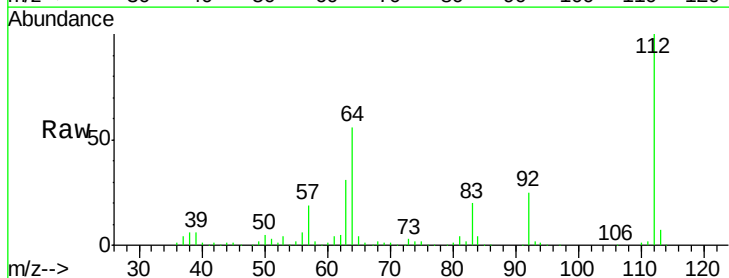
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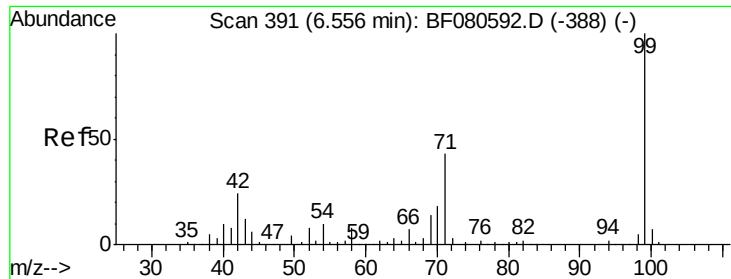


#5

2-Fluorophenol
Concen: 142.90 ng
RT: 5.53 min Scan# 301
Delta R.T. 0.01 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	60.2	90.2#
63	31.2	34.8	52.2#





#7

Phenol-d6

Concen: 156.89 ng

RT: 6.56 min Scan# 391

Delta R.T. 0.00 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

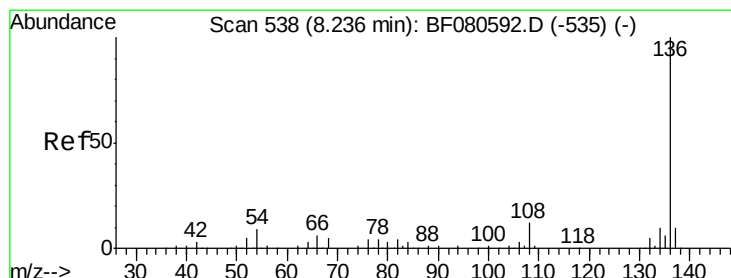
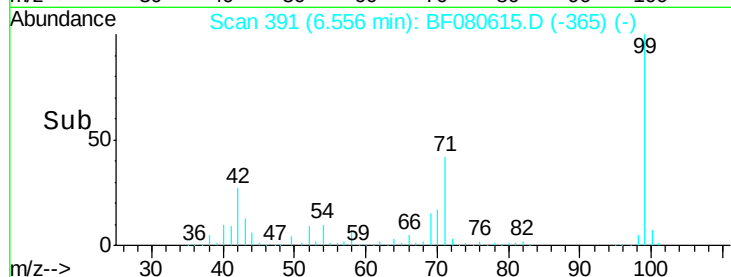
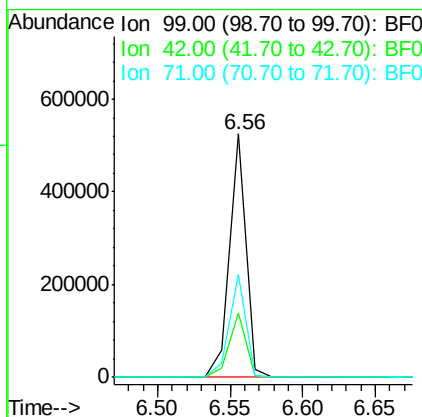
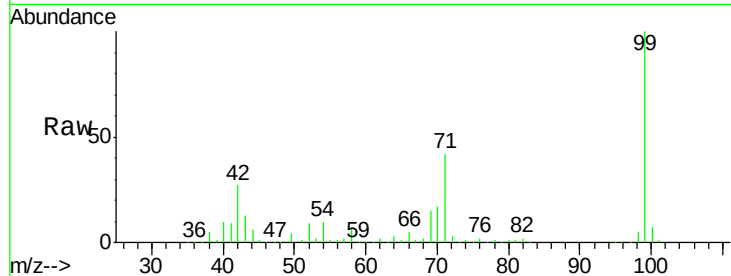
ClientSampleId :

SOIL-2

Tgt Ion:	99	Resp:	414509
Ion Ratio	Lower	Upper	
99	100		
42	26.5	17.4	26.2#
71	42.2	29.0	43.6

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#21

Naphthalene-d8

Concen: 20.00 ng

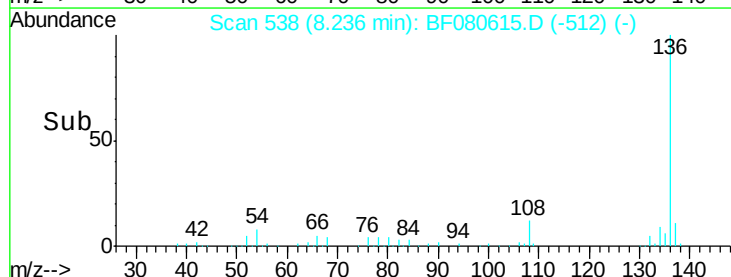
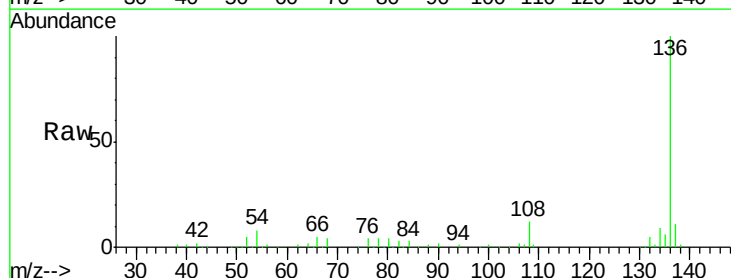
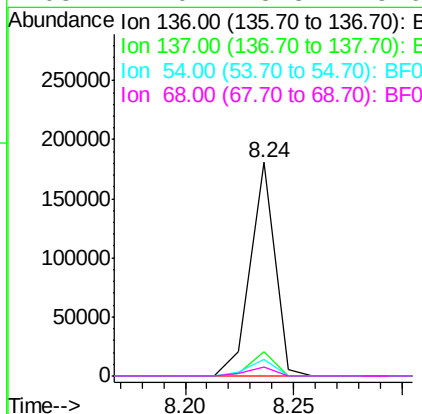
RT: 8.24 min Scan# 538

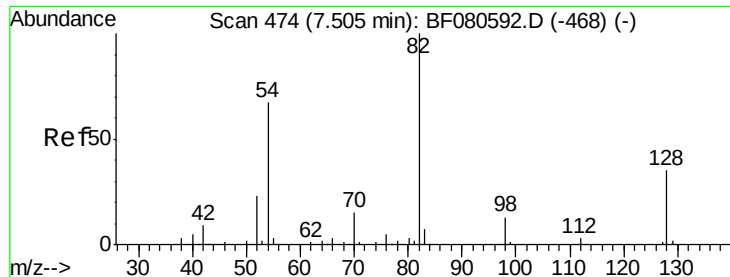
Delta R.T. 0.00 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Tgt Ion:	136	Resp:	141559
Ion Ratio	Lower	Upper	
136	100		
137	11.3	7.8	11.8
54	7.7	7.2	10.8
68	4.0	3.8	5.6





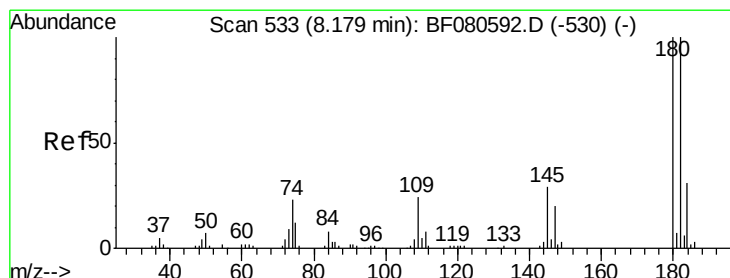
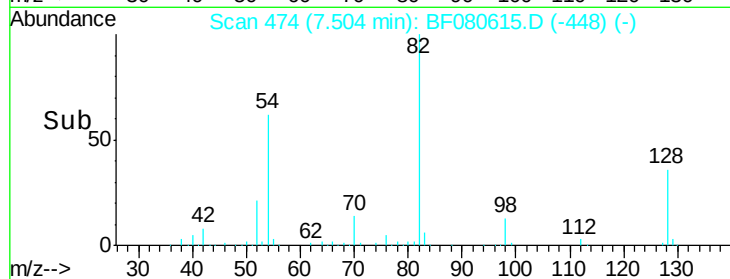
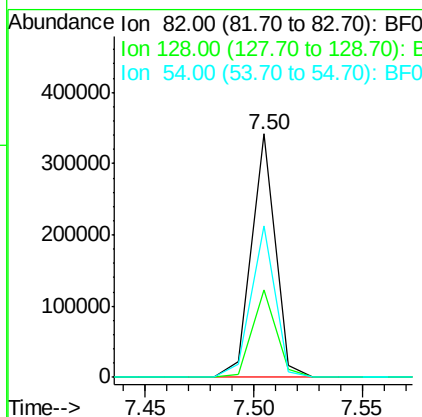
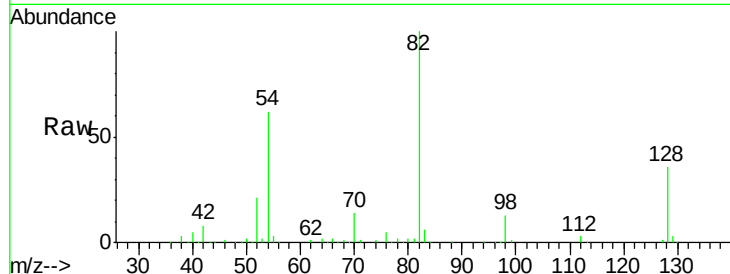
#23
 Nitrobenzene-d5
 Concen: 104.57 ng
 RT: 7.50 min Scan# 474
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Instrument :
 BNA_F
 ClientSampled :
 SOIL-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	36.1	28.9	43.3
54	62.4	54.5	81.7

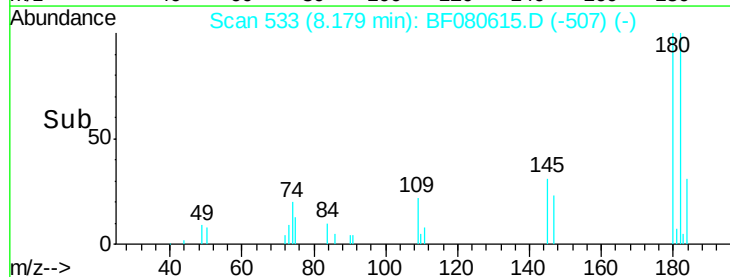
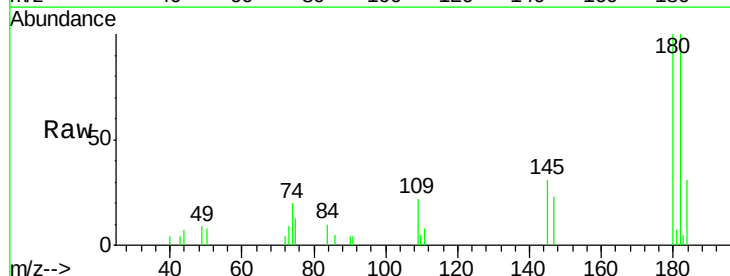
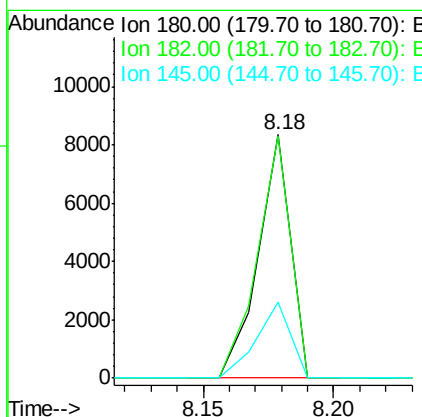
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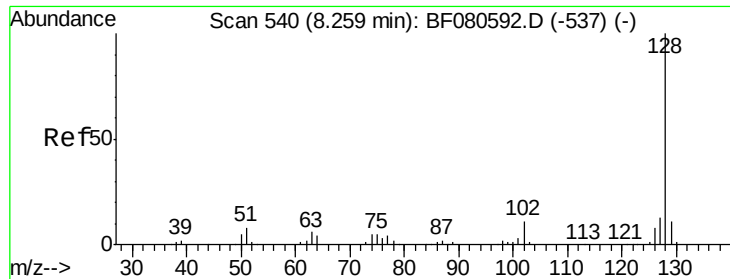
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#30
 1,2,4-Trichlorobenzene
 Concen: 3.25 ng
 RT: 8.18 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	99.6	79.0	118.4
145	31.4	22.0	33.0





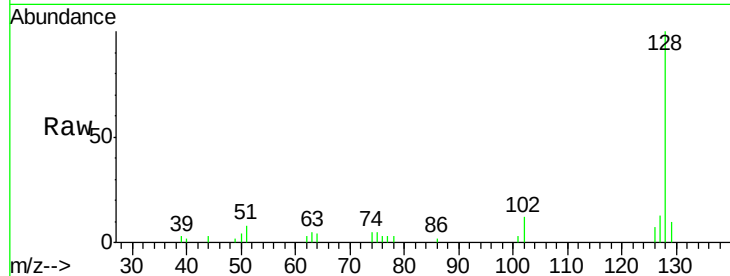
#31
Naphthalene
Concen: 2.12 ng
RT: 8.26 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Instrument :
BNA_F
ClientSampleId :
SOIL-2

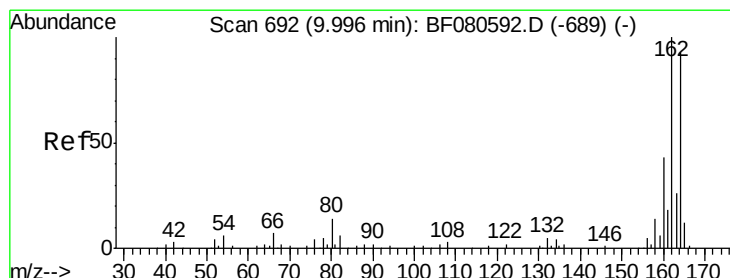
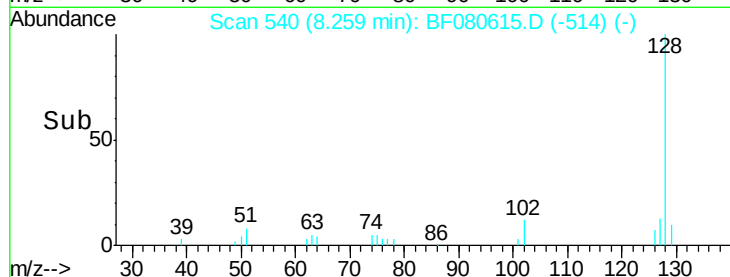
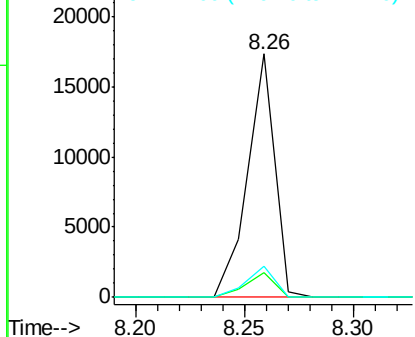
Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.3	8.6	13.0
127	12.6	10.7	16.1

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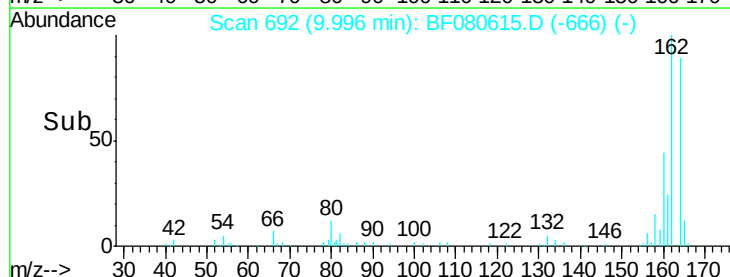
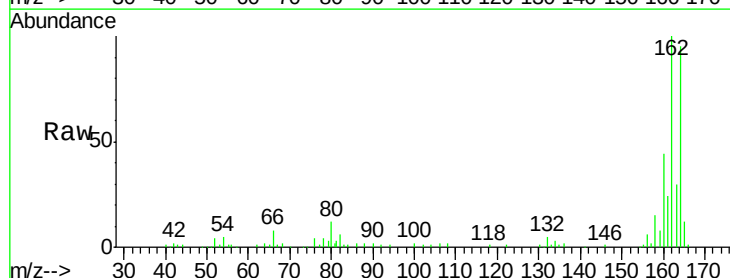
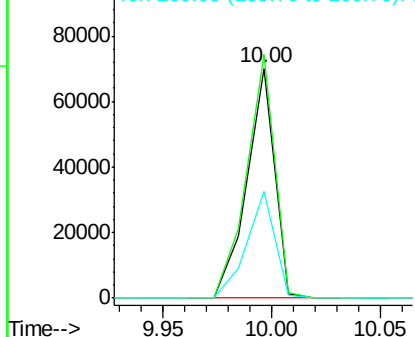
Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

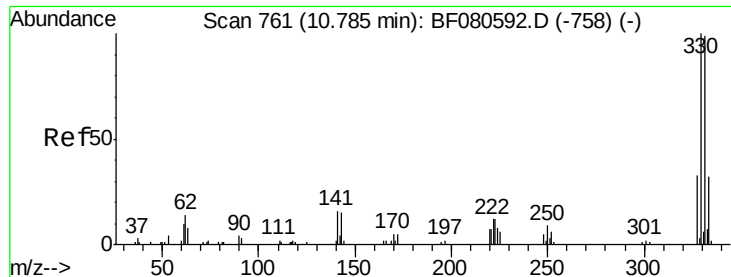


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.00 min Scan# 692
Delta R.T. 0.00 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
162	105.8	82.2	123.4
160	46.6	36.1	54.1

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





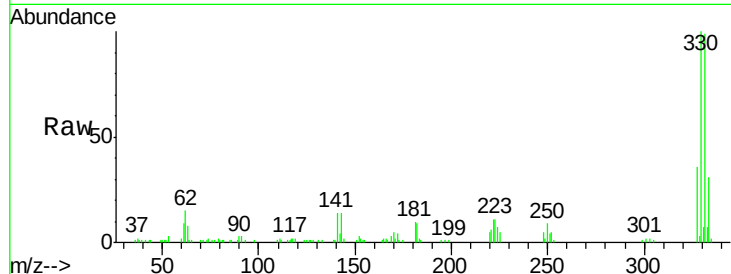
#41
 2,4,6-Tribromophenol
 Concen: 138.58 ng
 RT: 10.78 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Instrument :
 BNA_F
 ClientSampled :
 SOIL-2

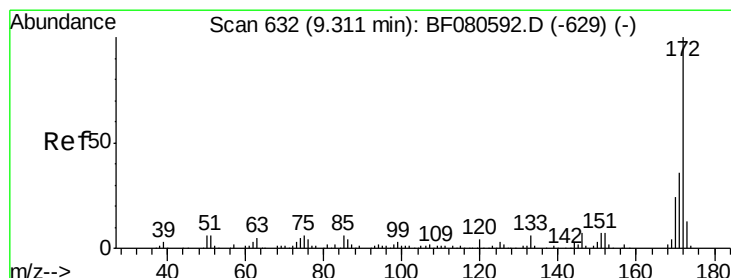
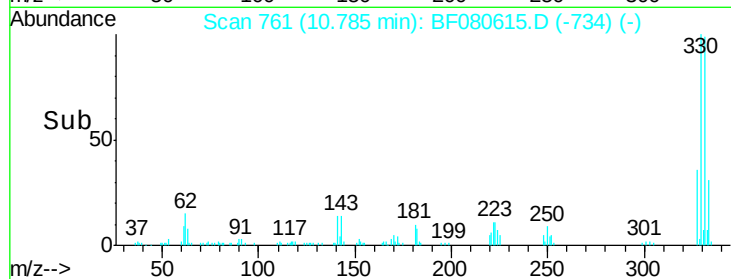
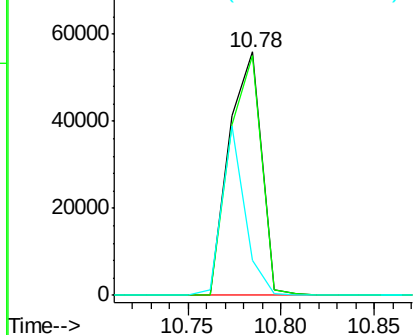
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	67835		
332	97.0		78.3	117.5
141	49.0		37.9	56.9

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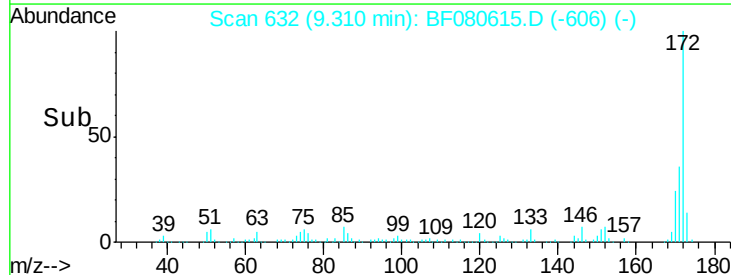
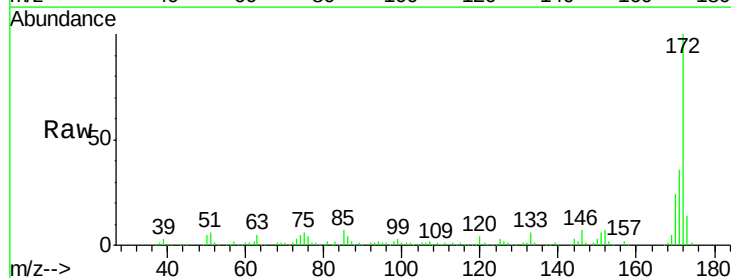
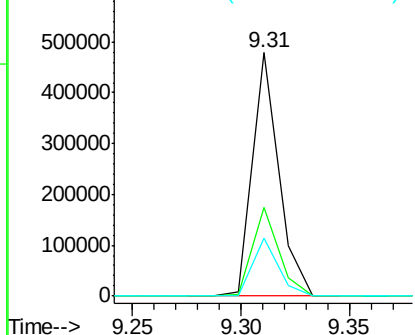
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

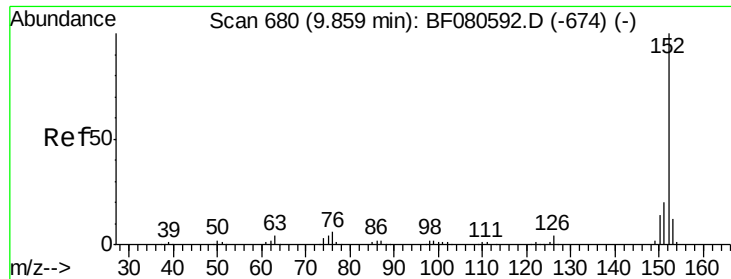


#44
 2-Fluorobiphenyl
 Concen: 94.31 ng
 RT: 9.31 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	401561		
171	36.2		27.7	41.5
170	23.8		19.1	28.7

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





#48

Acenaphthylene

Concen: 2.64 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.01 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

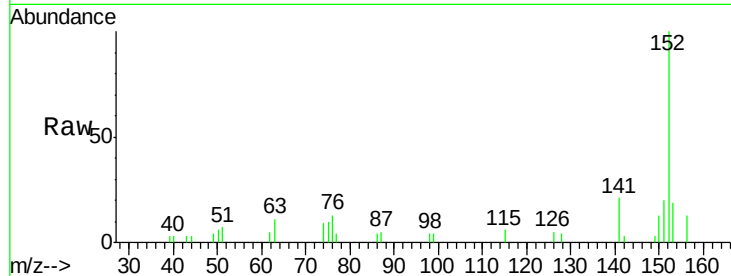
ClientSampleId :

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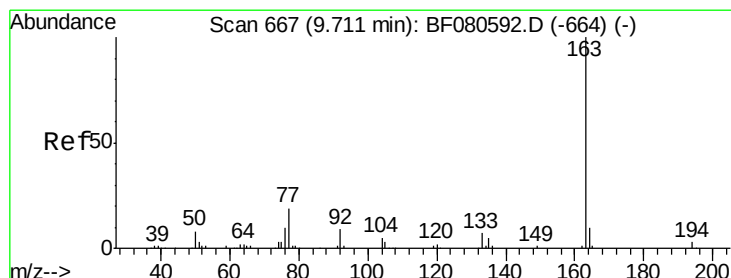
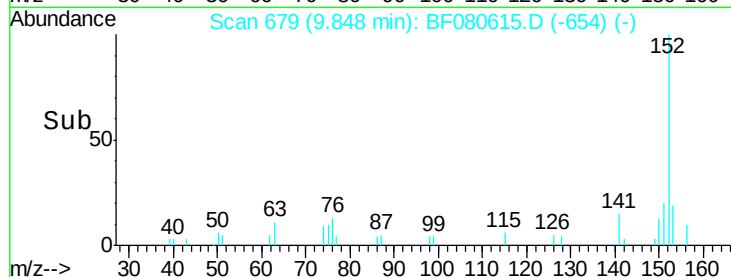
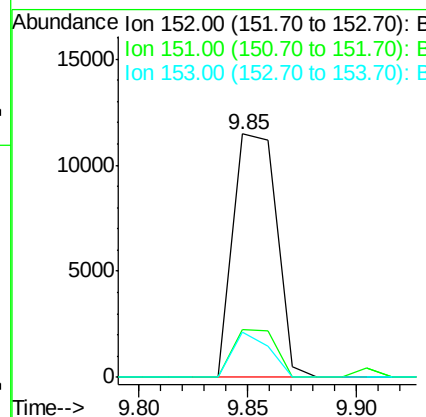
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Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.4	24.6
153	18.6	9.7	14.5



#49

Dimethylphthalate

Concen: 18.92 ng

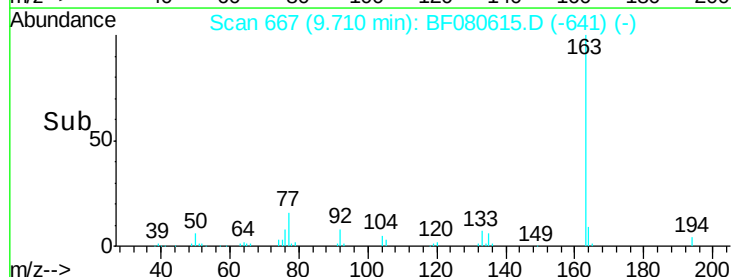
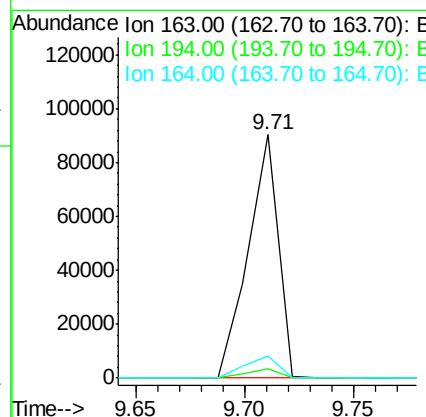
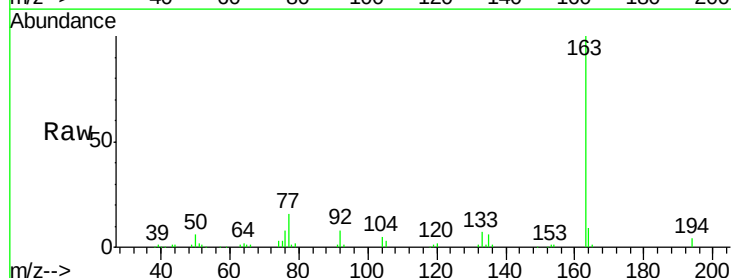
RT: 9.71 min Scan# 667

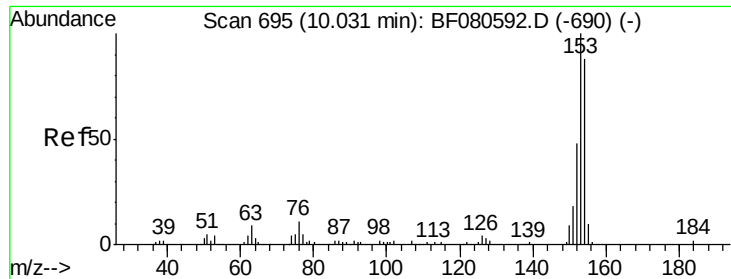
Delta R.T. 0.00 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	2.5	3.7
164	9.3	8.1	12.1





#51

Acenaphthene

Concen: 5.41 ng

RT: 10.03 min Scan# 695

Delta R.T. 0.00 min

Lab File: BF080615.D

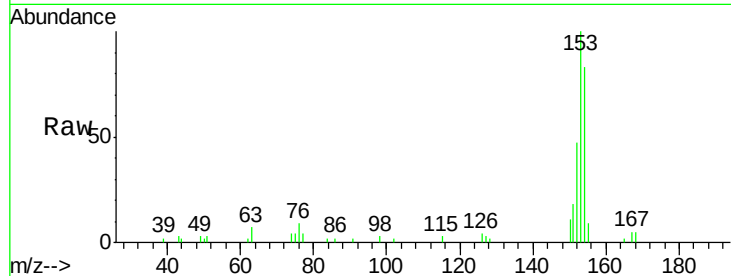
Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

ClientSampleId :

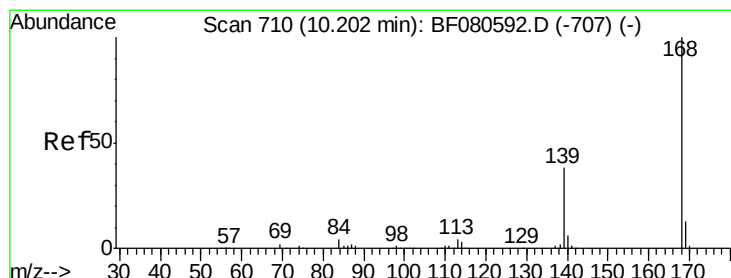
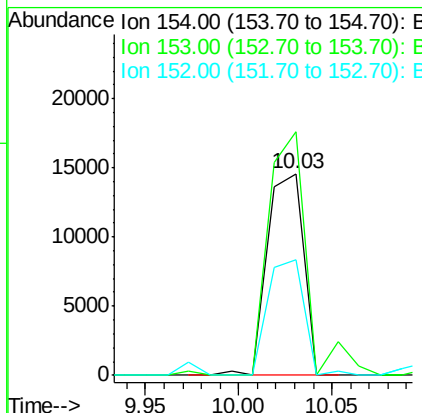
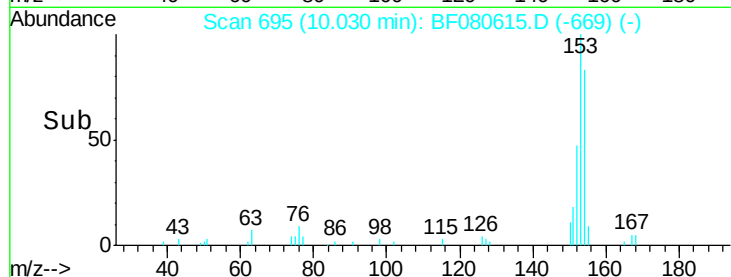
SOIL-2



Tgt Ion:	154	Resp:	19584
Ion Ratio	Lower	Upper	
154	100		
153	120.6	92.2	138.2
152	57.0	43.6	65.4

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#54

Dibenzofuran

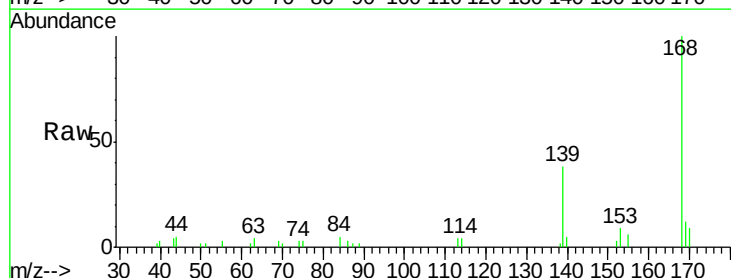
Concen: 3.66 ng

RT: 10.20 min Scan# 710

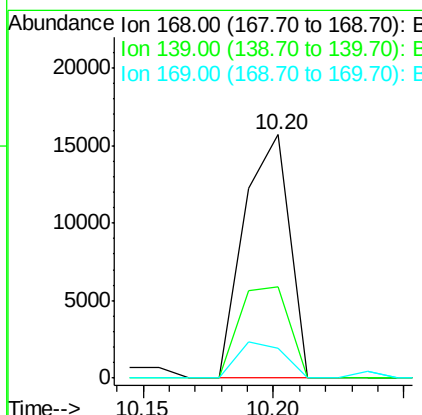
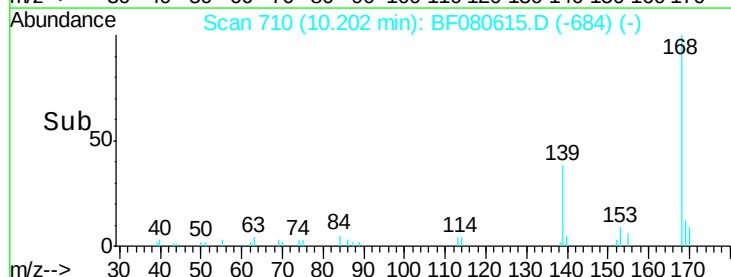
Delta R.T. 0.00 min

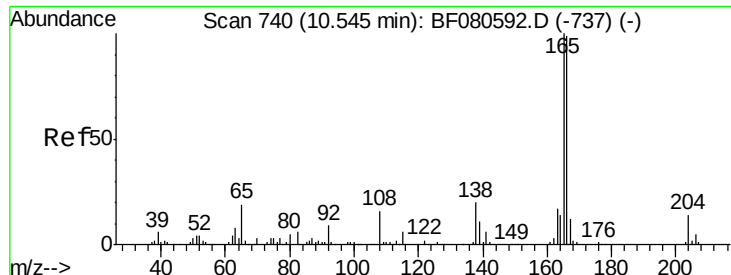
Lab File: BF080615.D

Acq: 24 Jul 2015 3:00



Tgt Ion:	168	Resp:	19144
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.7	46.1
169	12.5	9.8	14.8





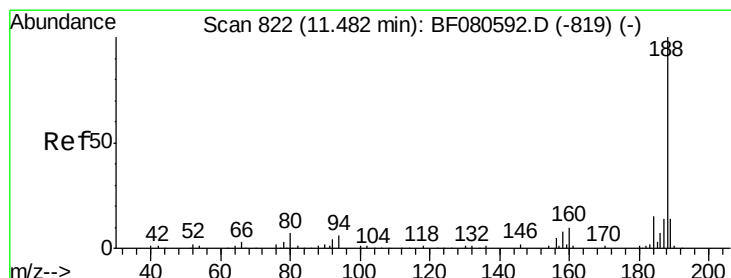
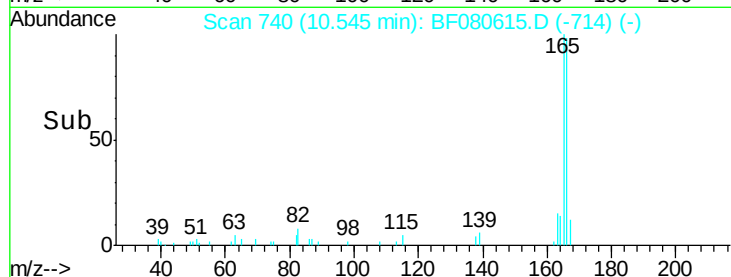
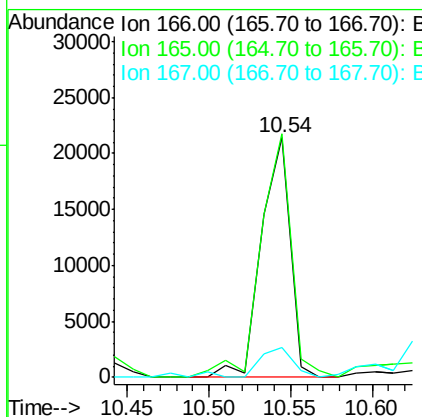
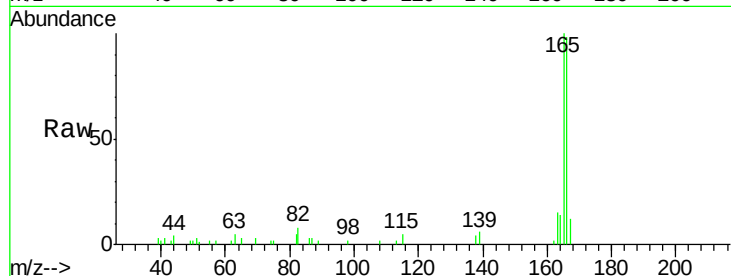
#57
Fluorene
 Concen: 6.27 ng
 RT: 10.54 min Scan# 740
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Instrument :
 BNA_F
 ClientSampled :
 SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	26329		
165	101.7	77.7	116.5	
167	12.3	10.5	15.7	

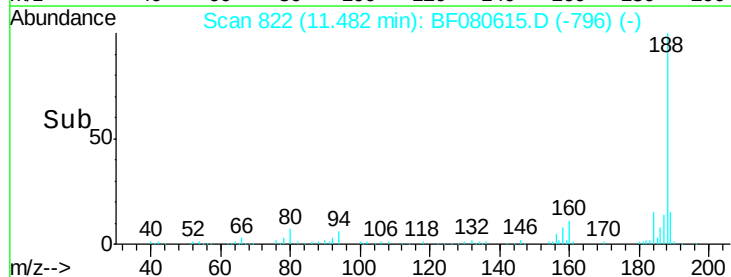
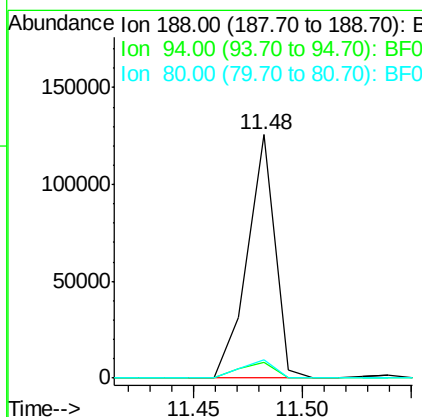
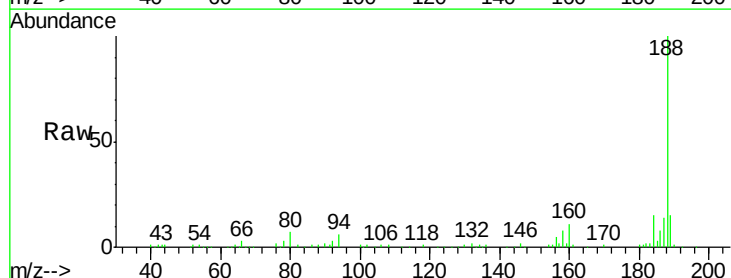
Manual Integrations
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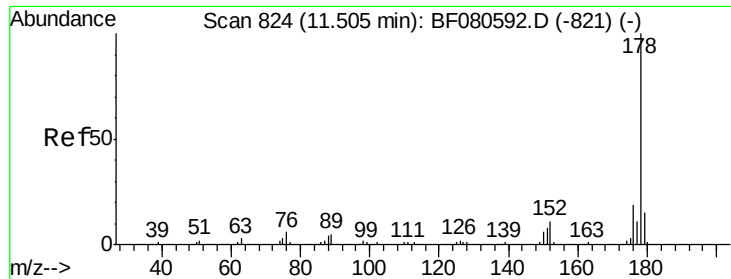
apatel
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.48 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	110787		
94	6.2	6.1	9.1	
80	7.5	7.0	10.6	





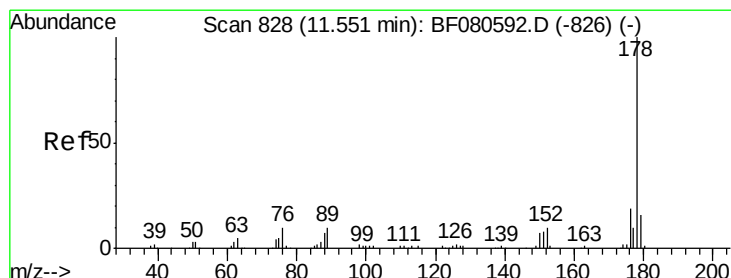
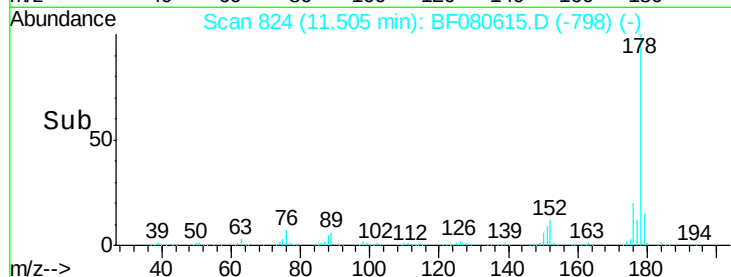
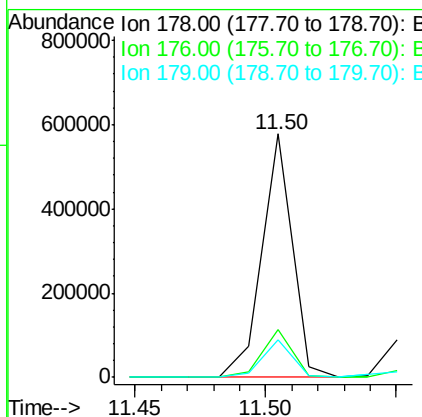
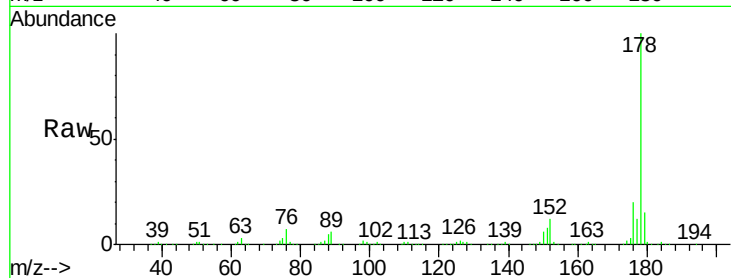
#70
Phenanthrene
Concen: 74.18 ng
RT: 11.50 min Scan# 824
Delta R.T. 0.00 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Instrument :
BNA_F
ClientSampleId :
SOIL-2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.2	22.8
179	15.2	12.5	18.7

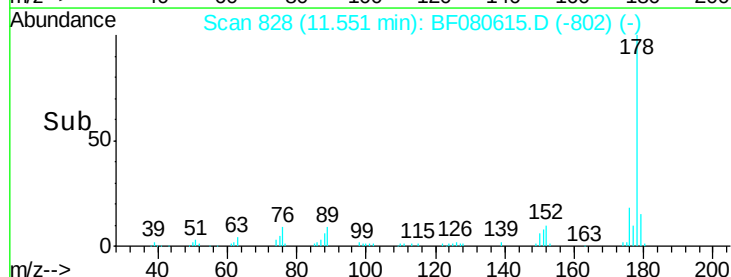
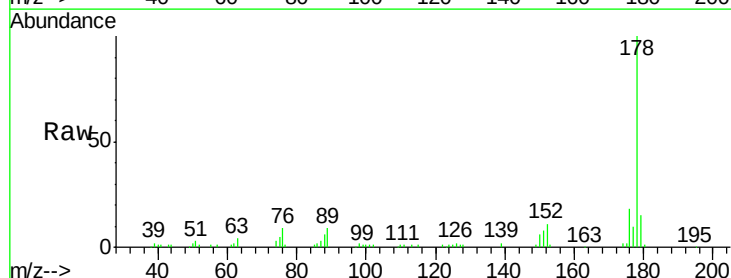
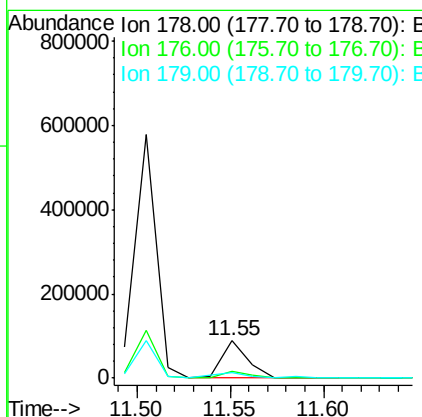
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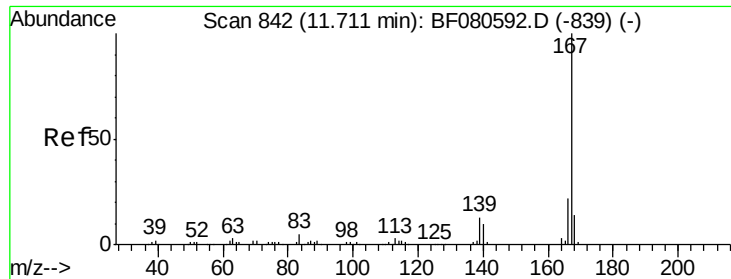
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#71
Anthracene
Concen: 14.77 ng
RT: 11.55 min Scan# 828
Delta R.T. 0.00 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

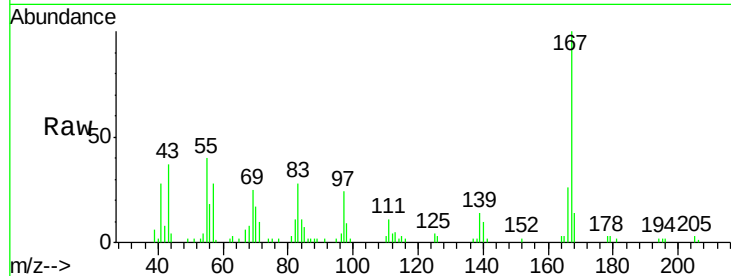
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.1	22.7
179	15.4	12.0	18.0





#72
 Carbazole
 Concen: 4.77 ng
 RT: 11.71 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

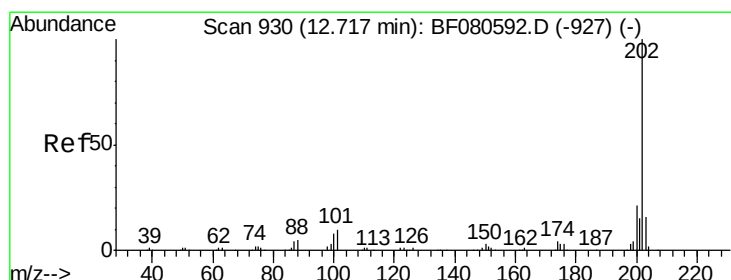
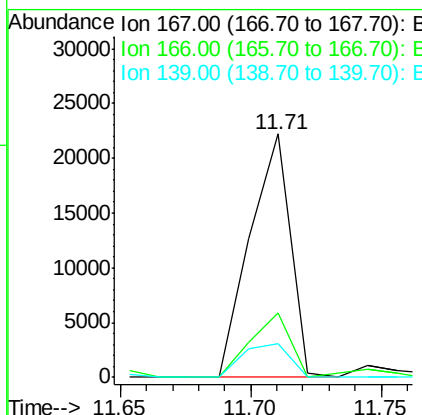
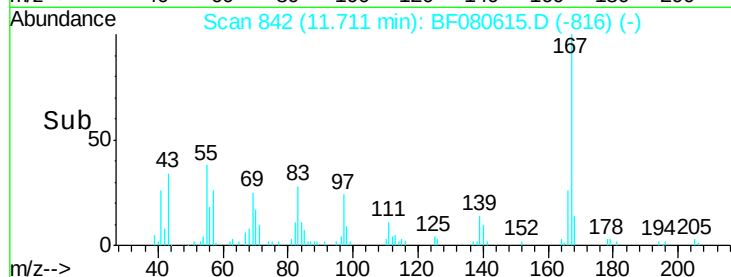
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2



Tgt Ion	Ratio	Resp	Lower	Upper
167	100	24154		
166	26.4	18.1	27.1	
139	13.8	10.7	16.1	

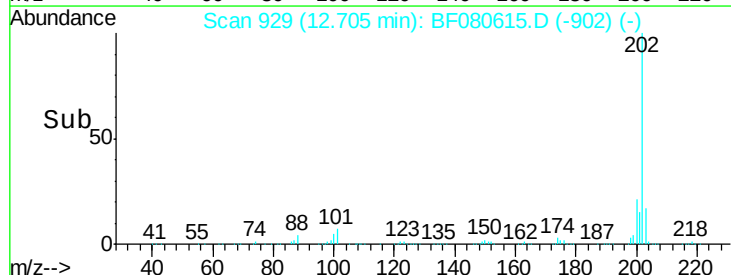
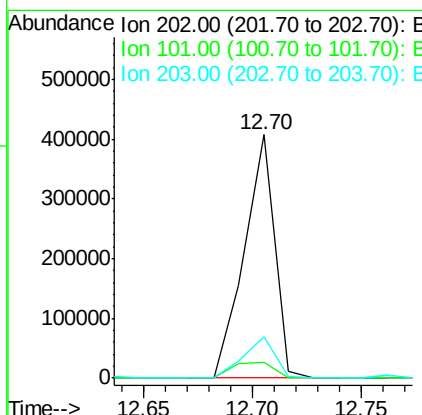
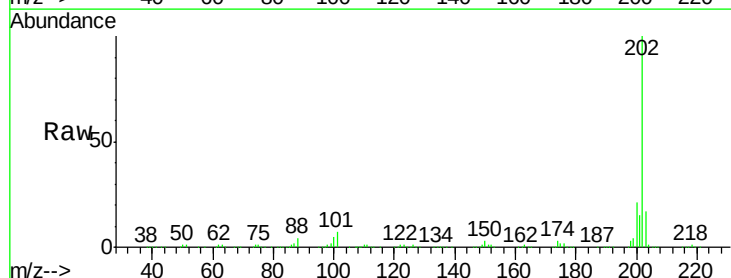
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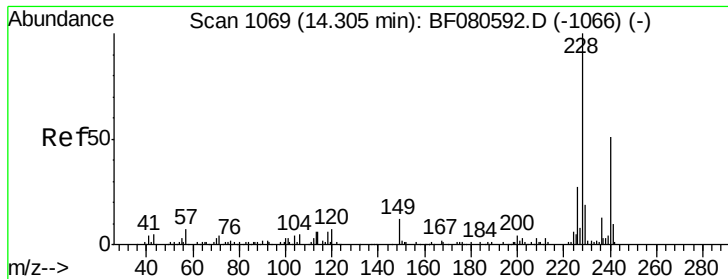
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#74
 Fluoranthene
 Concen: 70.35 ng
 RT: 12.70 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	393682		
101	6.7	0.0	31.1	
203	16.9	0.0	37.5	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.24 min Scan# 1063

Delta R.T. 0.06 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

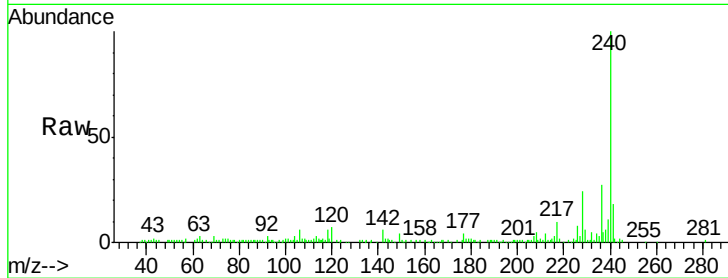
ClientSampled :

SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	107259		
120	6.8	9.9	14.9#	
236	26.5	19.1	28.7	

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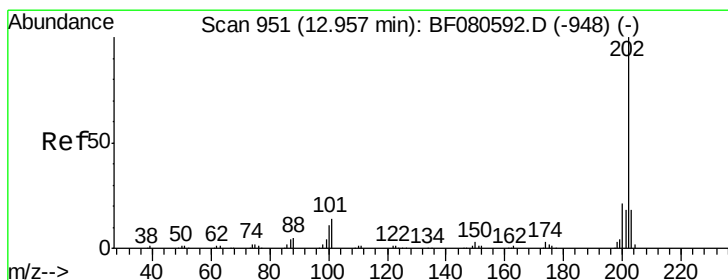
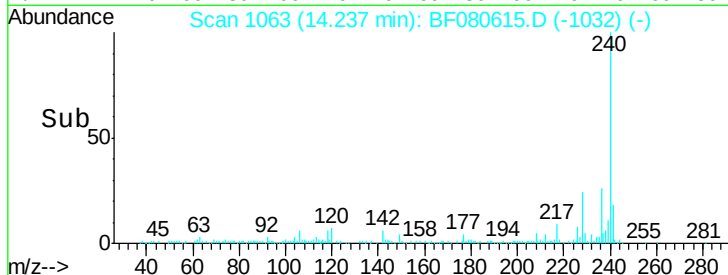
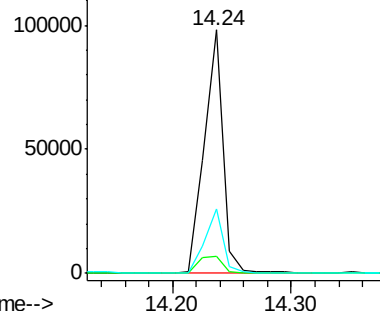
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 54.10 ng

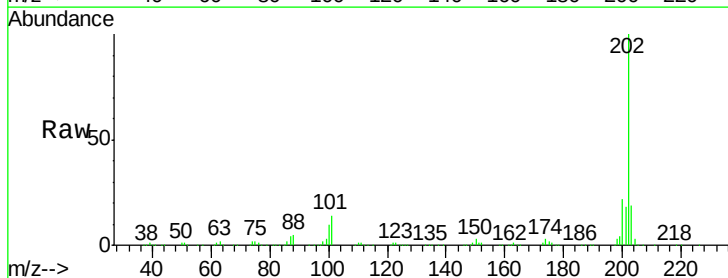
RT: 12.93 min Scan# 949

Delta R.T. 0.01 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

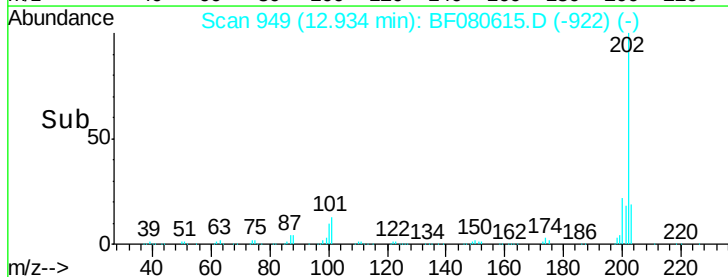
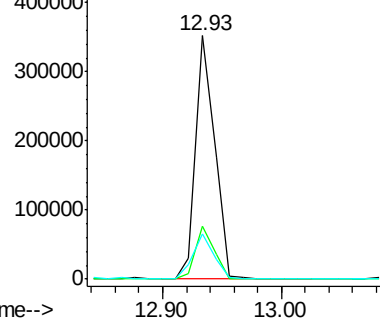
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	389306		
200	21.9	16.9	25.3	
203	18.8	14.5	21.7	

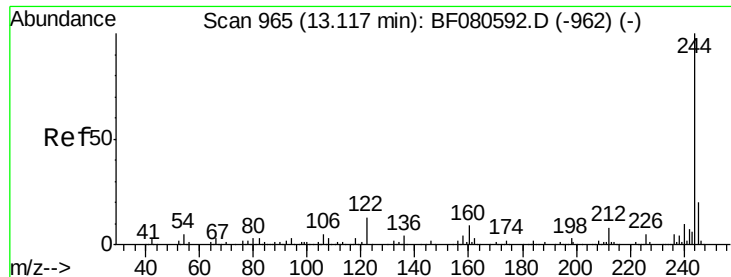


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 66.42 ng

RT: 13.09 min Scan# 963

Delta R.T. 0.02 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

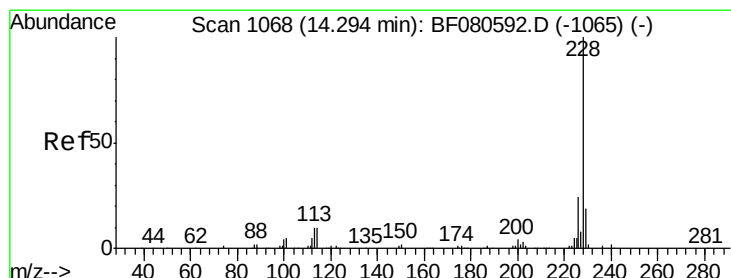
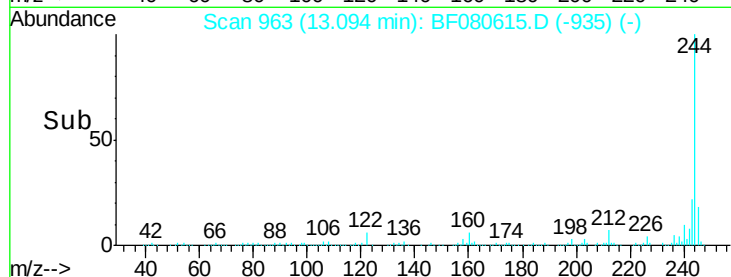
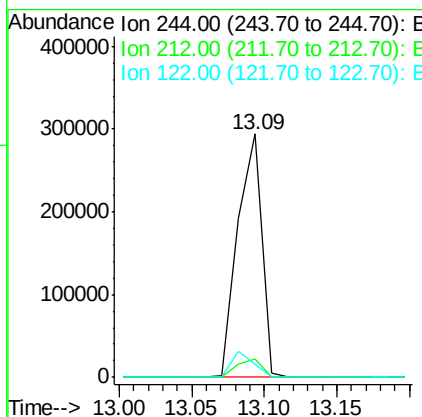
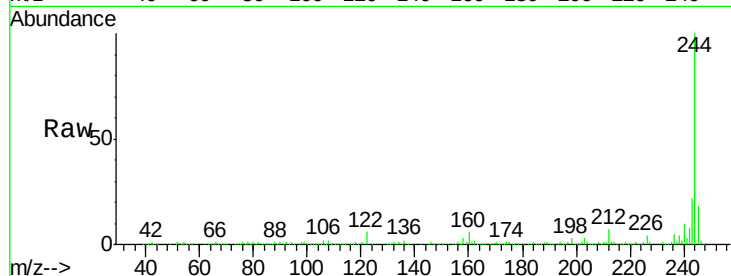
ClientSampleId :

SOIL-2

Tgt	Ion:244	Resp:	340449
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	5.7	8.2	12.2#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 30.72 ng

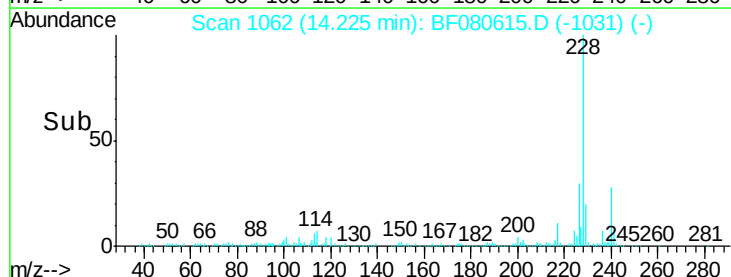
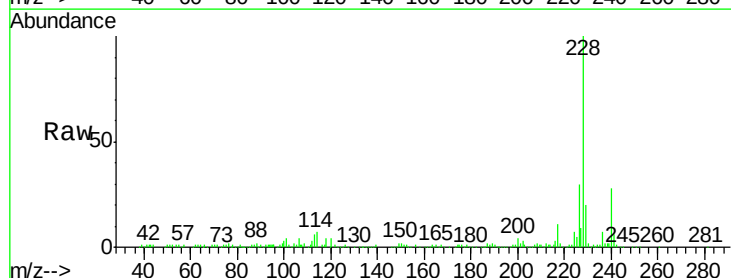
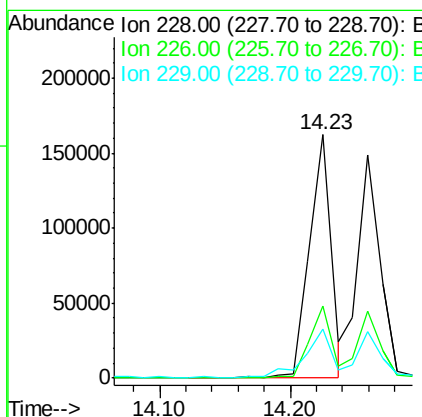
RT: 14.23 min Scan# 1062

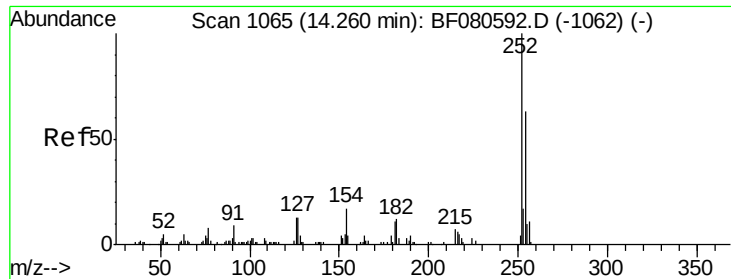
Delta R.T. 0.06 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Tgt	Ion:228	Resp:	185790
Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.0	33.0
229	20.4	15.7	23.5





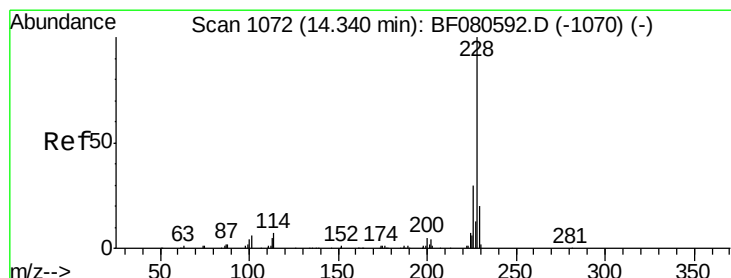
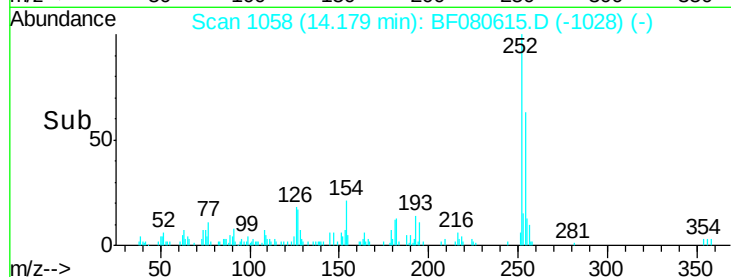
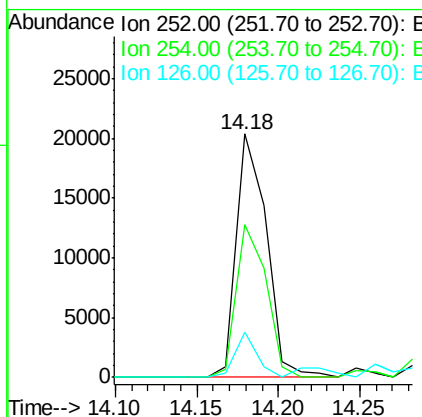
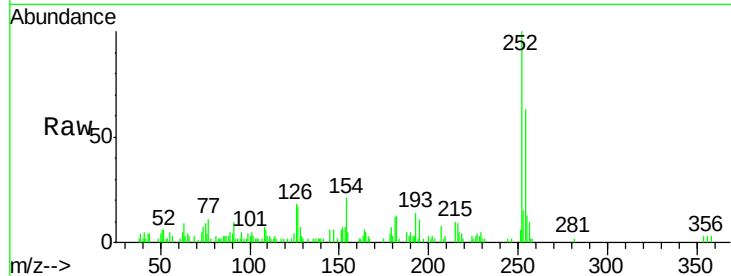
#81
 3,3'-Dichlorobenzidine
 Concen: 14.96 ng
 RT: 14.18 min Scan# 1058
 Delta R.T. 0.05 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Instrument :
 BNA_F
 ClientSampled :
 SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	25867		
254	62.6	49.2	73.8	
126	18.4	8.1	12.1	

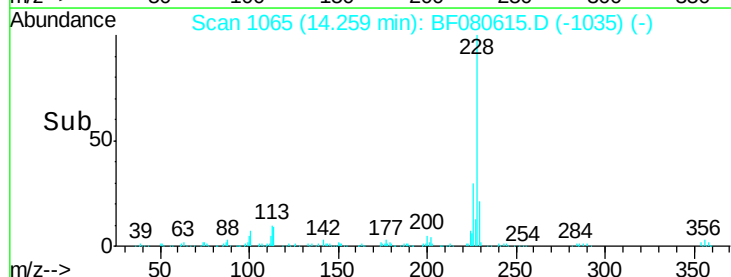
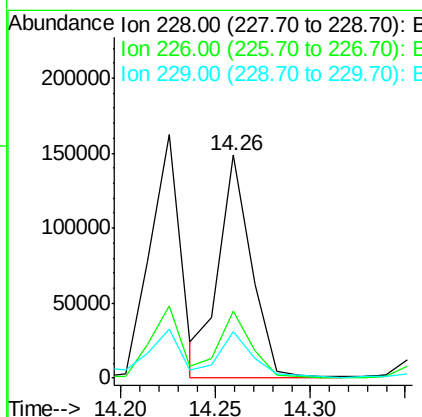
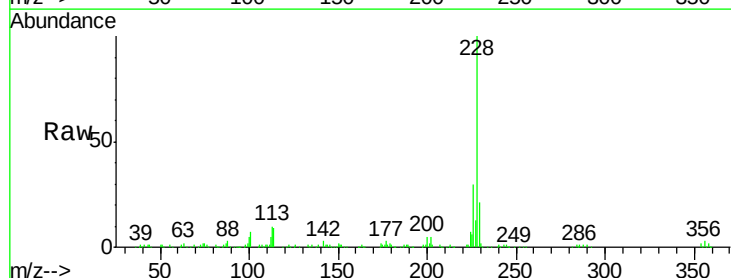
Manual Integrations
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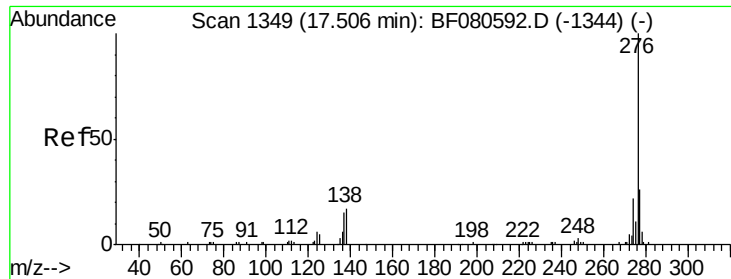
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#82
 Chrysene
 Concen: 29.77 ng m
 RT: 14.26 min Scan# 1065
 Delta R.T. 0.05 min
 Lab File: BF080615.D
 Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	179126		
226	30.4	23.0	34.6	
229	21.1	15.0	22.4	





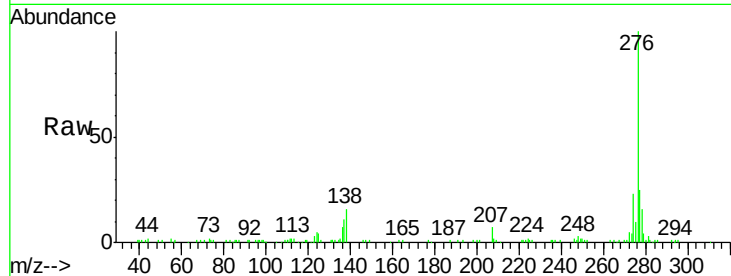
#85
Indeno(1,2,3-cd)pyrene
Concen: 31.38 ng
RT: 17.37 min Scan# 1337
Delta R.T. 0.13 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Instrument :
BNA_F
ClientSampled :
SOIL-2

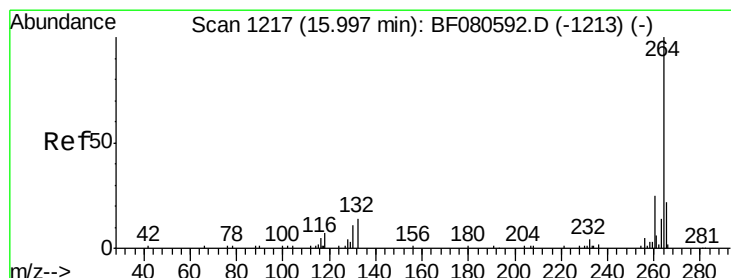
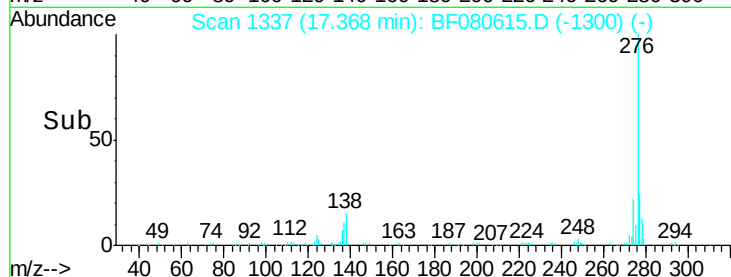
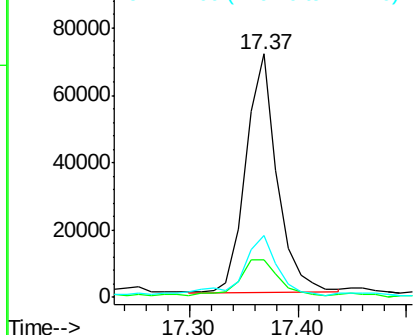
Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	18.3	18.9	28.3#
277	29.6	19.9	29.9

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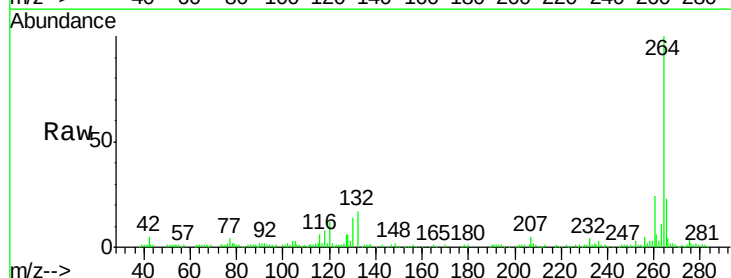


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

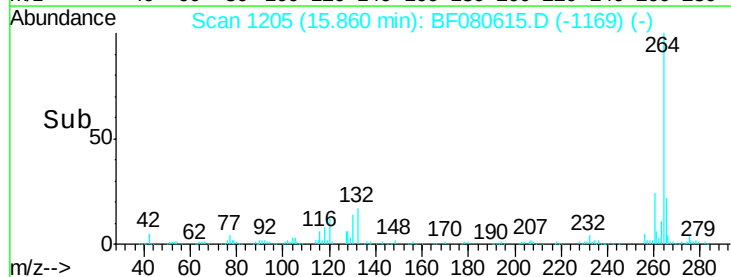
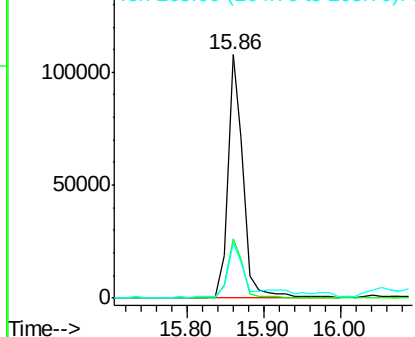


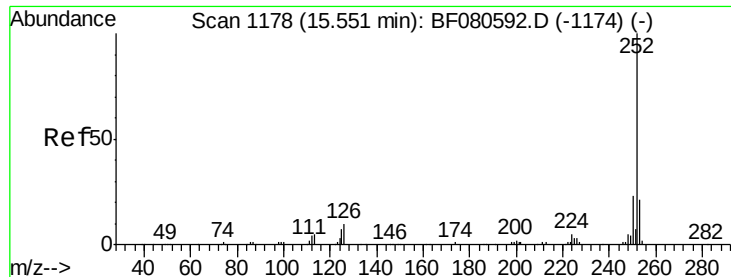
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.86 min Scan# 1205
Delta R.T. 0.11 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.4	17.8	26.8
265	22.5	15.6	23.4



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: 24.90 ng m

RT: 15.43 min Scan# 1167

Delta R.T. 0.11 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

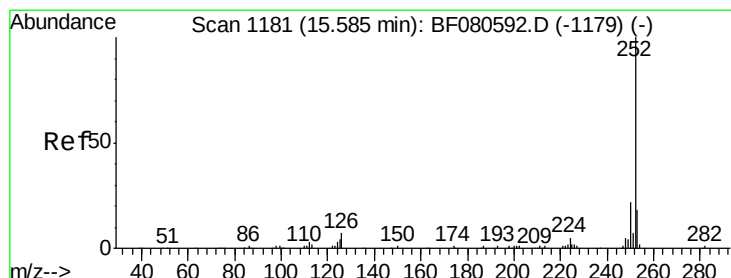
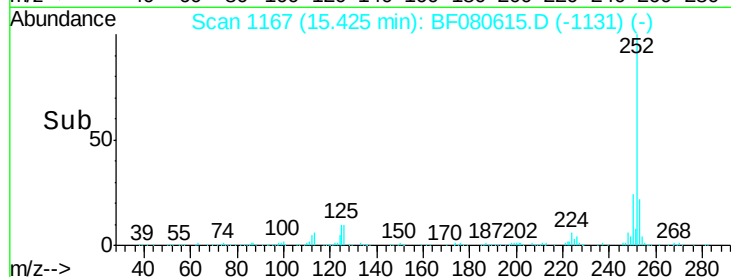
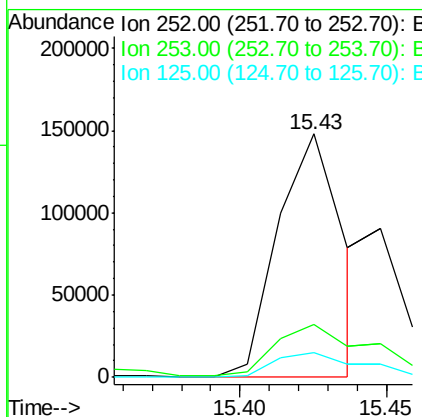
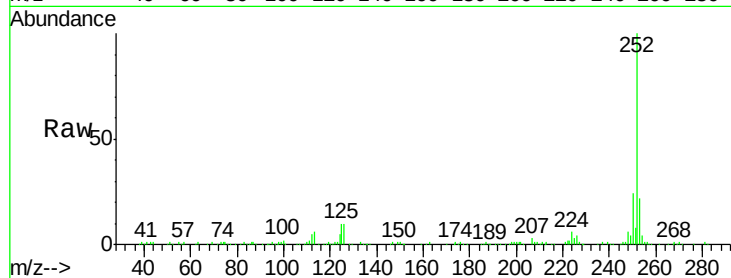
ClientSampleId :

SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	230197		
253	21.6	16.6	25.0	
125	10.0	6.1	9.1#	

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 9.78 ng m

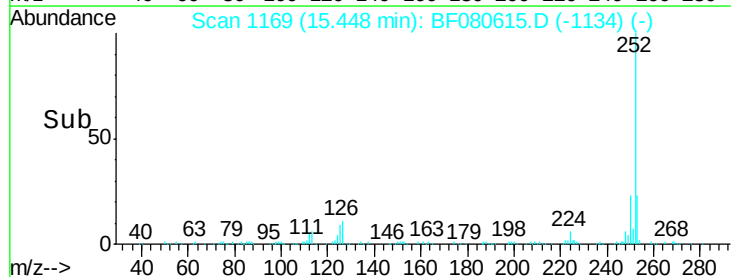
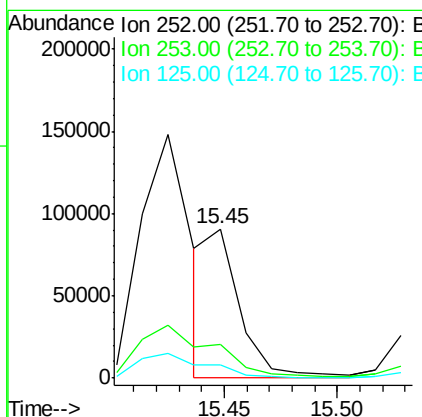
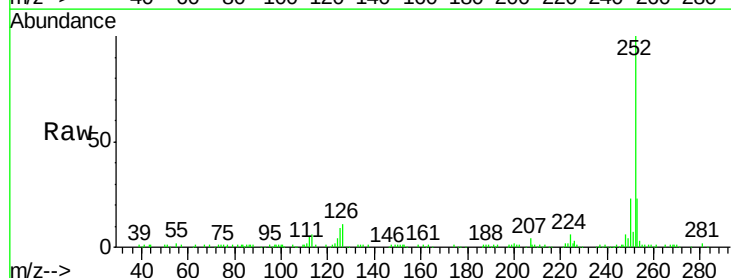
RT: 15.45 min Scan# 1169

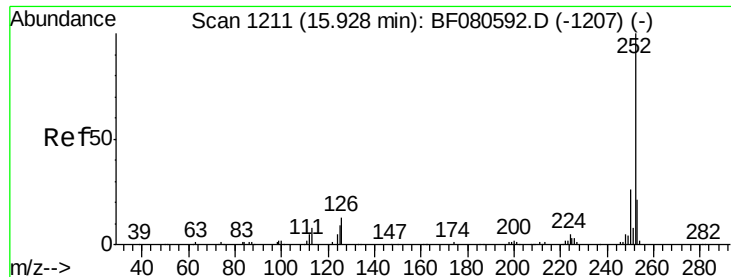
Delta R.T. 0.10 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	89977		
253	23.0	17.0	25.6	
125	9.1	8.6	13.0	





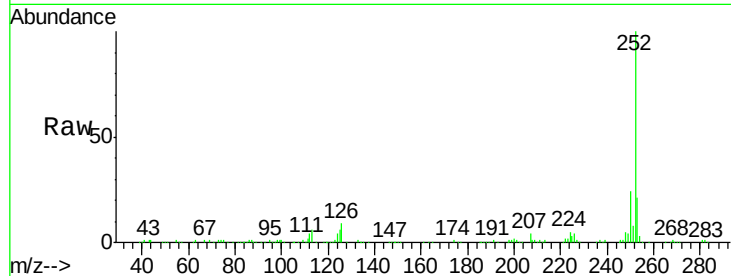
#89
Benzo(a)pyrene
Concen: 25.27 ng m
RT: 15.80 min Scan# 1200
Delta R.T. 0.11 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

Instrument :
BNA_F
ClientSampleId :
SOIL-2

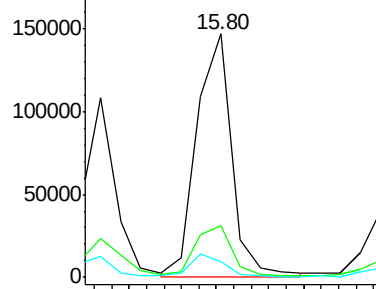
Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	21.4	19.0	28.6
125	6.4	11.2	16.8

Manual Integrations
APPROVED

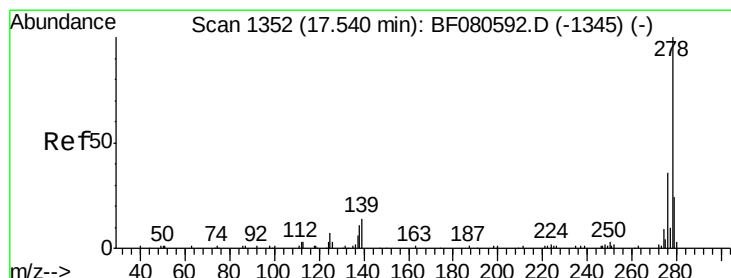
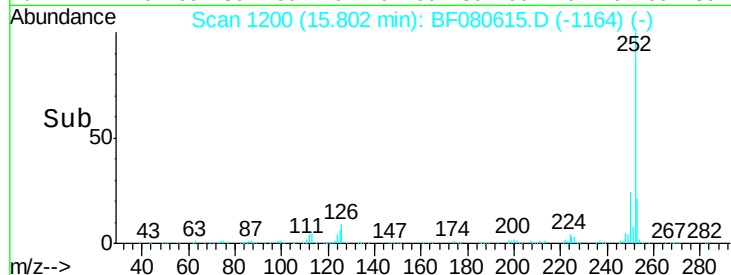
apatel
7/24/2015 4:47:43 PM



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



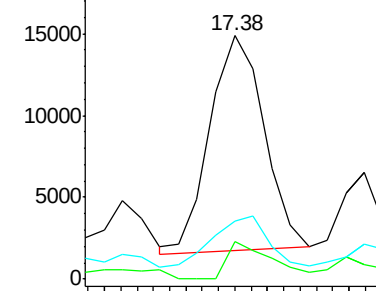
Time-->



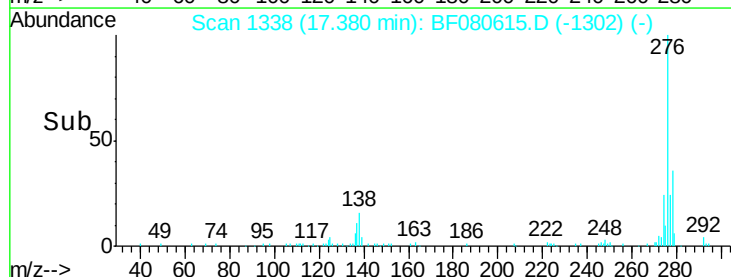
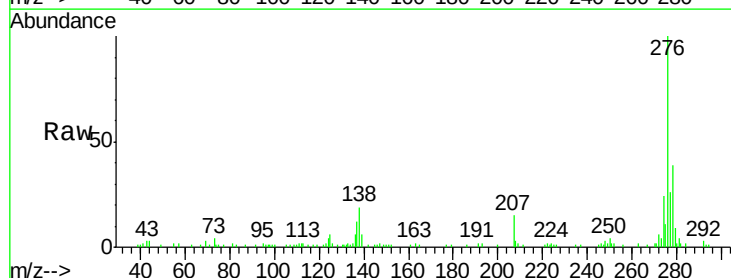
#90
Dibenzo(a,h)anthracene
Concen: 3.94 ng
RT: 17.38 min Scan# 1338
Delta R.T. 0.11 min
Lab File: BF080615.D
Acq: 24 Jul 2015 3:00

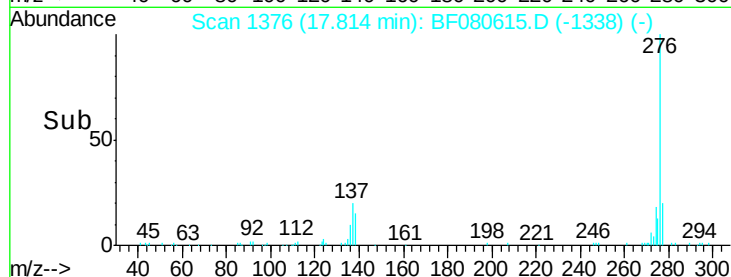
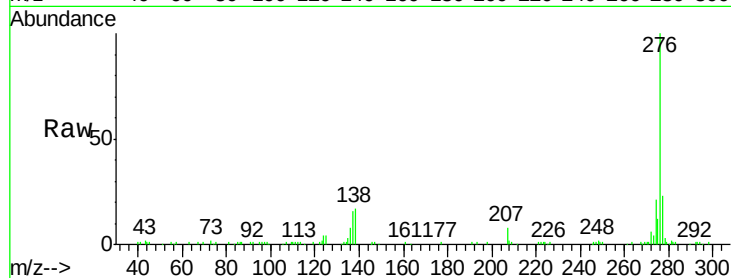
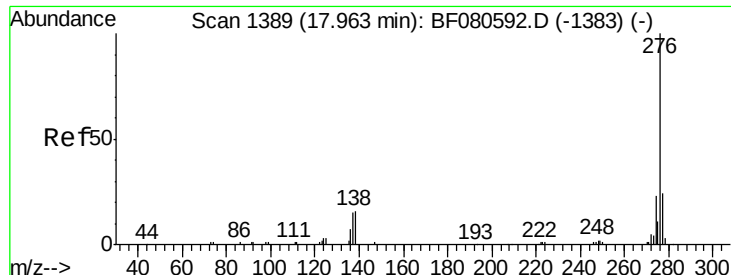
Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	15.2	11.6	17.4
279	23.9	18.9	28.3

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->





#91

Benzo(g,h,i)perylene

Concen: 20.37 ng m

RT: 17.81 min Scan# 1376

Delta R.T. 0.14 min

Lab File: BF080615.D

Acq: 24 Jul 2015 3:00

Instrument :

BNA_F

ClientSampleId :

SOIL-2

Tgt Ion:	276	Resp:	161221
Ion Ratio		Lower	Upper
276	100		
277	23.4	18.0	27.0
138	17.0	17.8	26.6#

Manual Integrations
APPROVED

apatel
7/24/2015 4:47:43 PM

