

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082326.D
 Acq On : 16 Oct 2015 15:20
 Operator : UM/IZ
 Sample : G4034-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CWC-1-20151014

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:08 PM

Quant Time: Oct 17 05:30:50 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 01:08:23 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	50027m	20.00	ng	0.03
21) Naphthalene-d8	8.15	136	225442	20.00	ng	0.02
38) Acenaphthene-d10	9.91	164	113184	20.00	ng	0.02
63) Phenanthrene-d10	11.39	188	260604	20.00	ng	0.02
75) Chrysene-d12	14.12	240	283010	20.00	ng	0.05
86) Perylene-d12	15.69	264	233312	20.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	331747	133.84	ng	0.03
7) Phenol-d6	6.50	99	429280	133.08	ng	0.02
23) Nitrobenzene-d5	7.43	82	258206	76.91	ng	0.01
41) 2,4,6-Tribromophenol	10.70	330	149665	141.00	ng	0.01
44) 2-Fluorobiphenyl	9.22	172	519562	76.13	ng	0.01
78) Terphenyl-d14	13.00	244	705740	66.08	ng	0.03
Target Compounds						Qvalue
31) Naphthalene	8.17	128	24353	2.49	ng	98
49) Dimethylphthalate	9.62	163	130209	16.34	ng	98
51) Acenaphthene	9.93	154	13282	2.09	ng	96
57) Fluorene	10.46	166	19611	2.74	ng	93
70) Phenanthrene	11.42	178	299487	23.45	ng	99
71) Anthracene	11.46	178	55466	4.21	ng	97
74) Fluoranthene	12.61	202	288804	21.05	ng	97
77) Pyrene	12.85	202	322716	19.21	ng	96
80) Benzo(a)anthracene	14.10	228	150407	10.21	ng	98
82) Chrysene	14.14	228	121271	7.82	ng	97
85) Indeno(1,2,3-cd)pyrene	17.16	276	50579	4.10	ng	92
87) Benzo(b)fluoranthene	15.27	252	121533m	8.56	ng	
88) Benzo(k)fluoranthene	15.29	252	43074m	3.61	ng	
89) Benzo(a)pyrene	15.64	252	93230m	7.64	ng	
91) Benzo(a,h,i)perylene	17.59	276	53148	5.47	ng	99

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

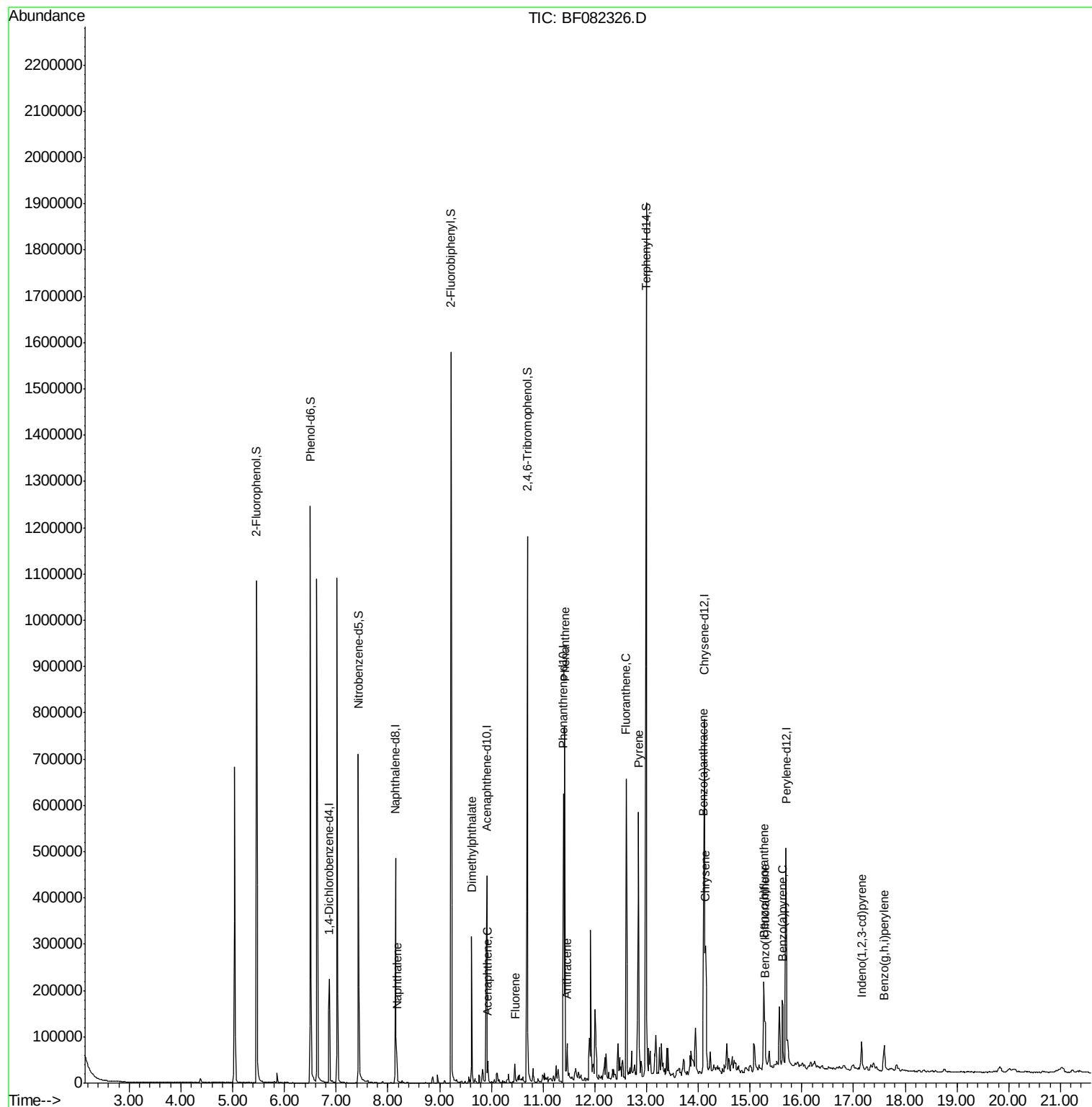
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082326.D
Acq On : 16 Oct 2015 15:20
Operator : UM/IZ
Sample : G4034-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

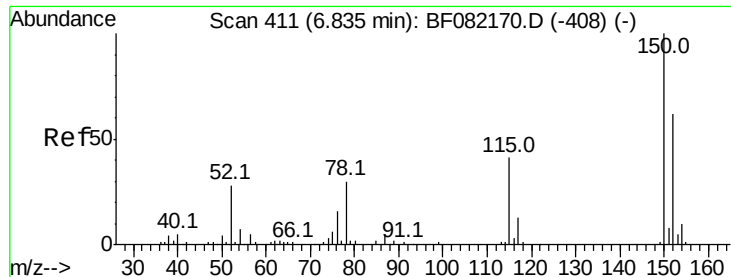
Instrument :
BNA_F
ClientSampleId :
CWC-1-20151014

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM

Quant Time: Oct 17 05:30:50 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 17 01:08:23 2015
Response via : Initial Calibration





#1

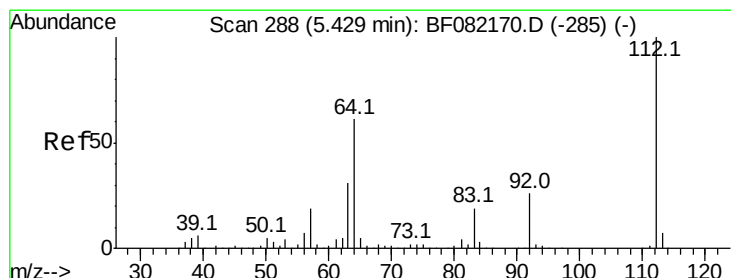
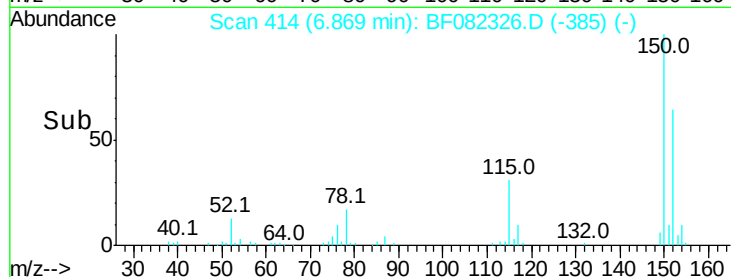
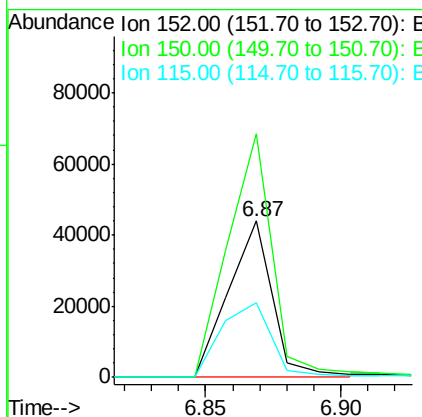
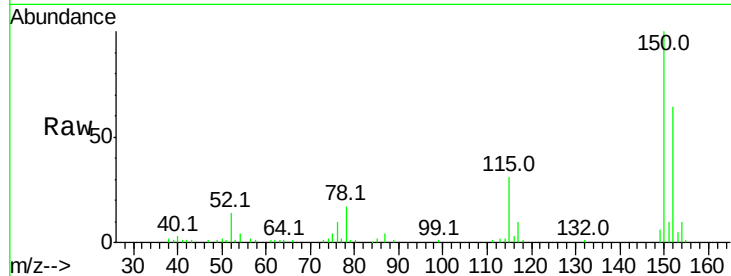
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.87 min Scan# 414
Delta R.T. 0.03 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Instrument :
BNA_F
ClientSampleId :
CWC-1-20151014

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	129.0	193.4
115	48.1	52.1	78.1#

Manual Integrations
APPROVED

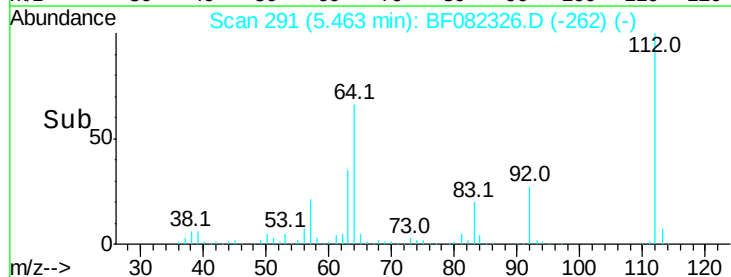
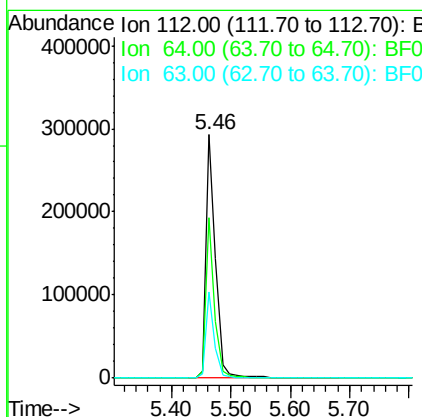
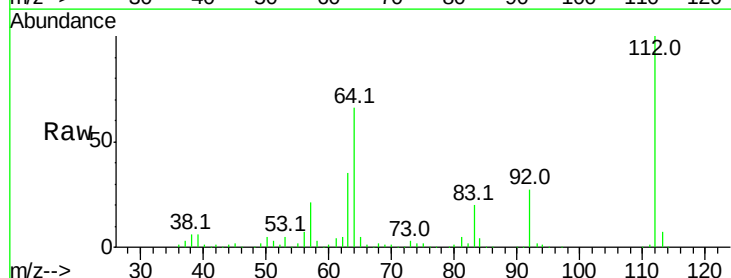
MMdadoda
10/19/2015 5:32:08 PM

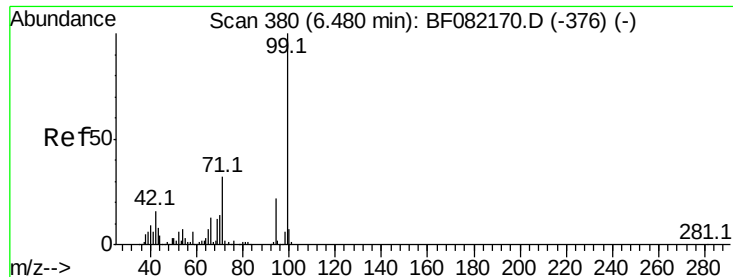


#5

2-Fluorophenol
Concen: 133.84 ng
RT: 5.46 min Scan# 291
Delta R.T. 0.03 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	48.6	73.0
63	35.3	25.1	37.7





#7

Phenol-d6

Concen: 133.08 ng

RT: 6.50 min Scan# 382

Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

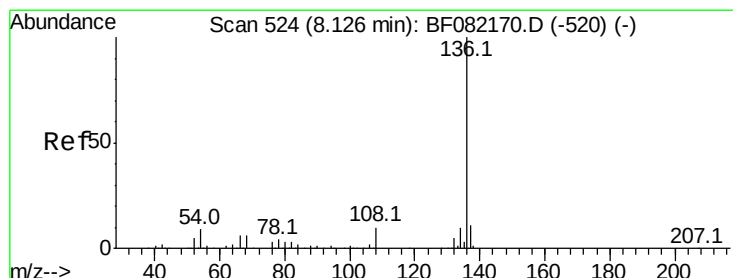
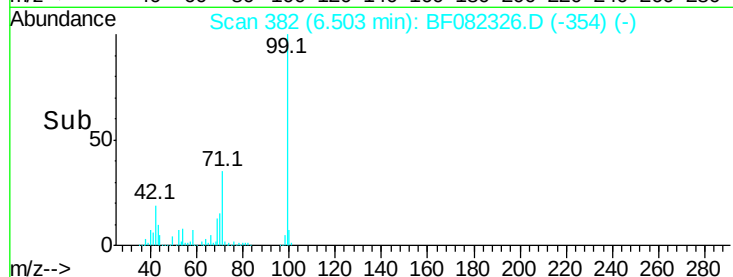
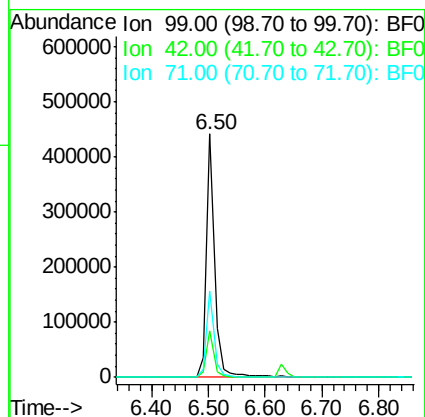
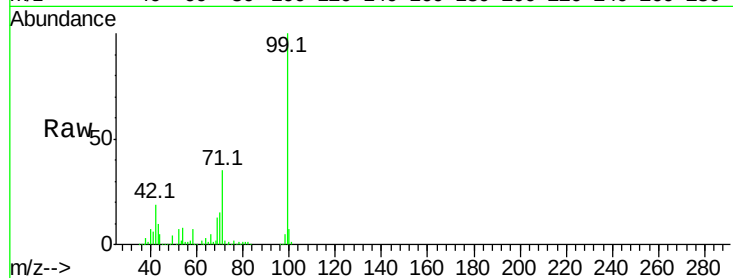
ClientSampleId :

CWC-1-20151014

Tot Ion:	99	Resp:	429280
Ion Ratio	Lower	Upper	
99	100		
42	19.0	13.2	19.8
71	35.5	25.6	38.4

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#21

Naphthalene-d8

Concen: 20.00 ng

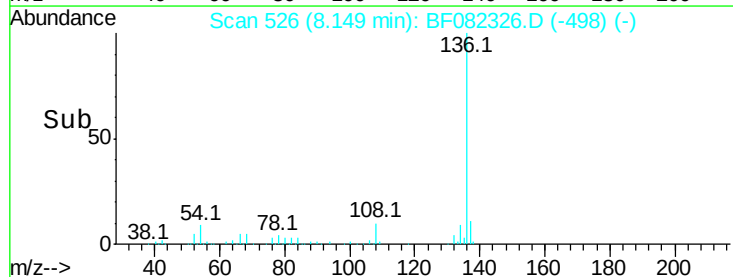
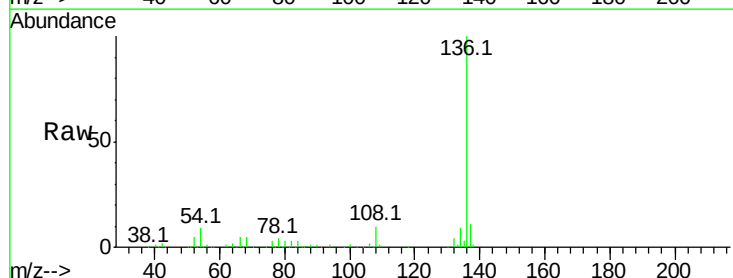
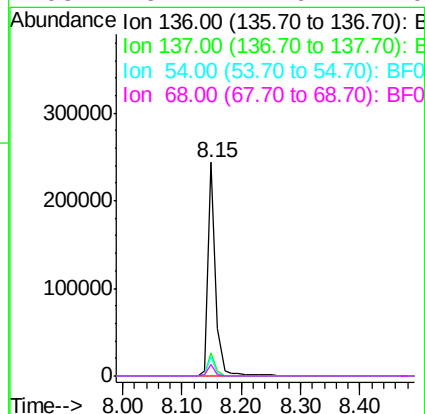
RT: 8.15 min Scan# 526

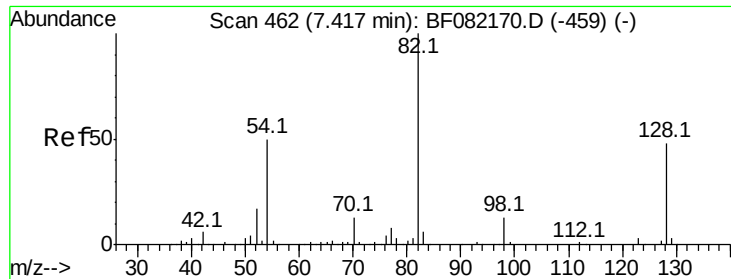
Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	136	Resp:	225442
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.0	13.6
54	8.7	7.5	11.3
68	5.2	4.6	7.0





#23

Nitrobenzene-d5

Concen: 76.91 ng

RT: 7.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

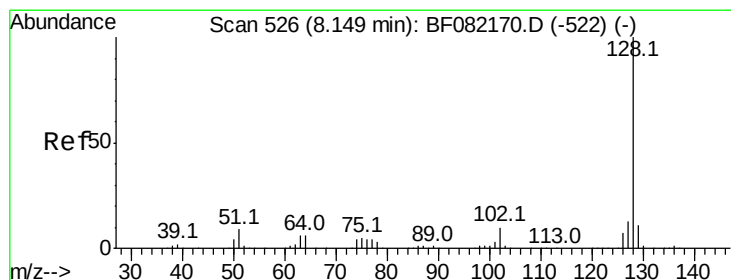
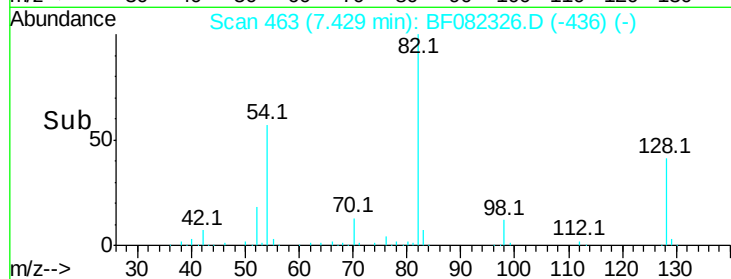
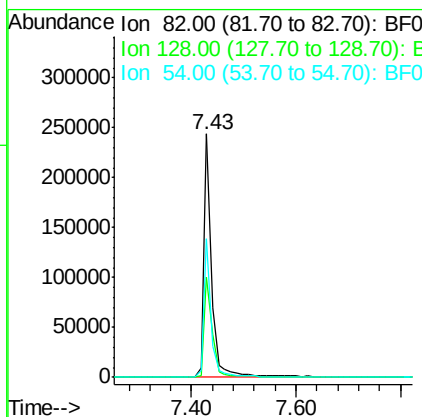
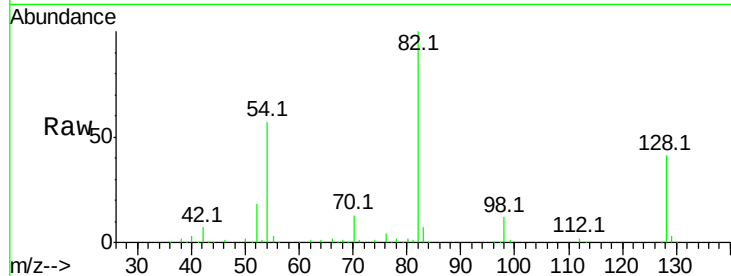
ClientSampleId :

CWC-1-20151014

Tot Ion:	82	Resp:	258206
Ion Ratio	Lower	Upper	
82	100		
128	41.0	38.7	58.1
54	56.7	40.1	60.1

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#31

Naphthalene

Concen: 2.49 ng

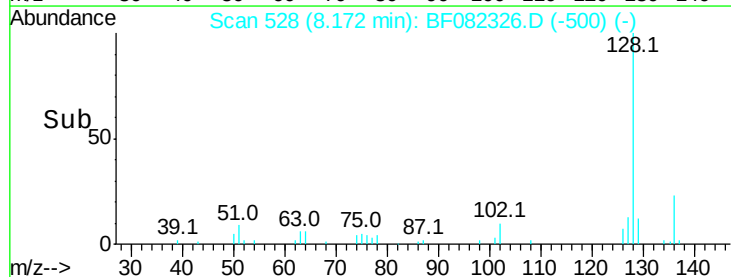
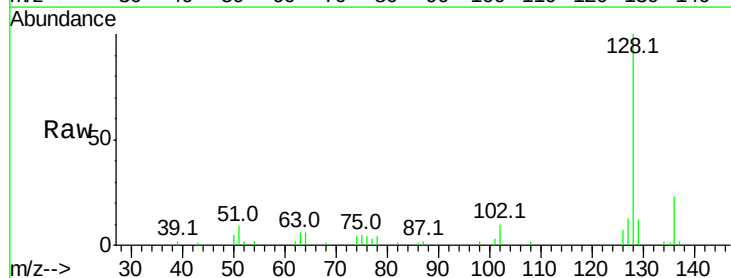
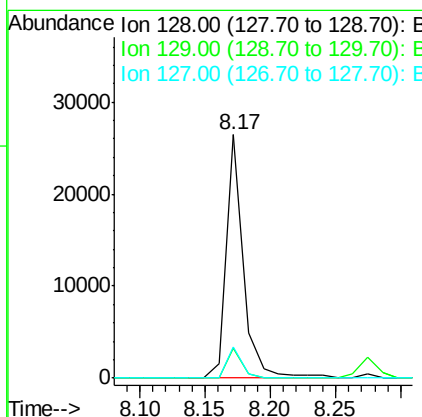
RT: 8.17 min Scan# 528

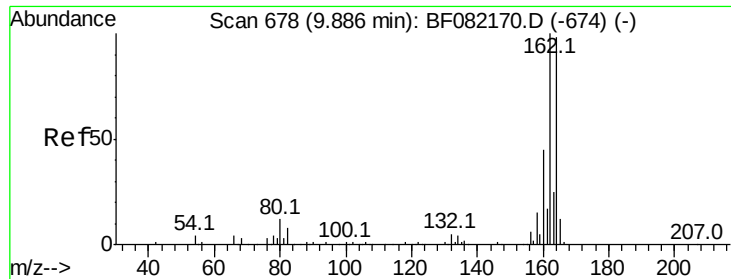
Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	128	Resp:	24353
Ion Ratio	Lower	Upper	
128	100		
129	12.1	9.1	13.7
127	12.9	10.7	16.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 680

Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

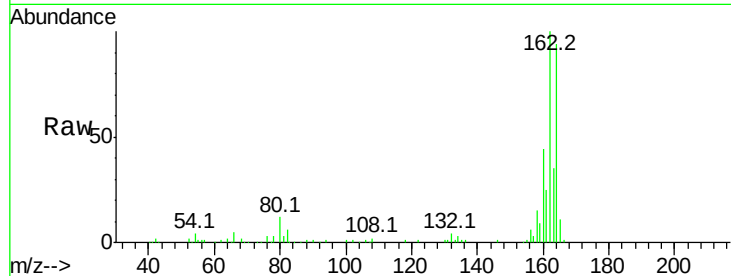
ClientSampleId :

CWC-1-20151014

Tot Ion:	164	Resp:	113184
Ion Ratio	Lower	Upper	
164	100		
162	106.3	81.6	122.4
160	46.9	36.4	54.6

Manual Integrations
APPROVED

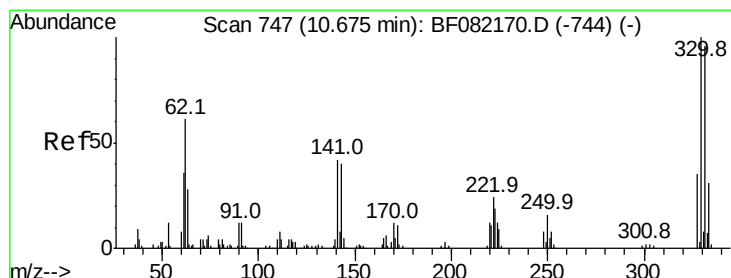
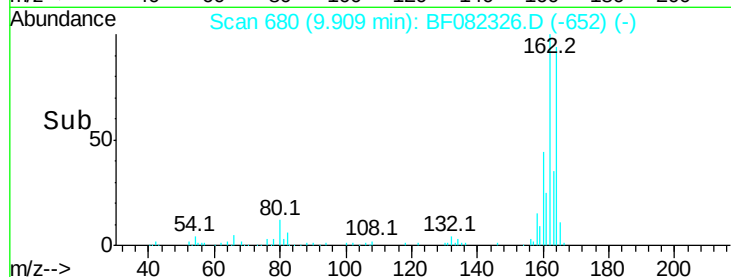
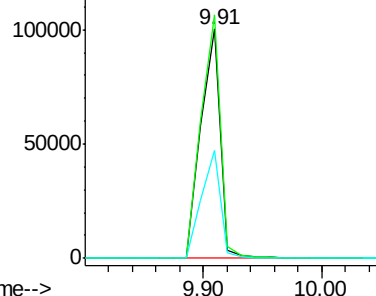
MMdadoda
10/19/2015 5:32:08 PM



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: 141.00 ng

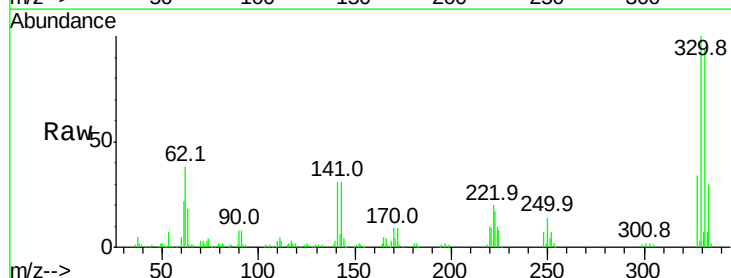
RT: 10.70 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

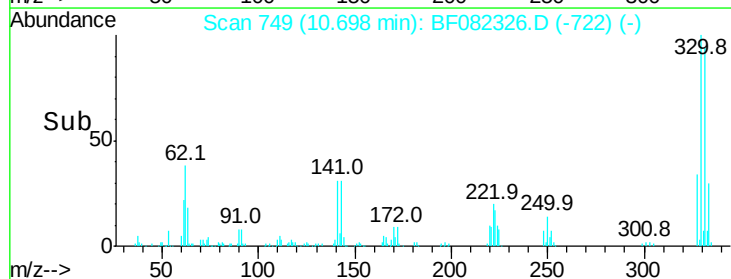
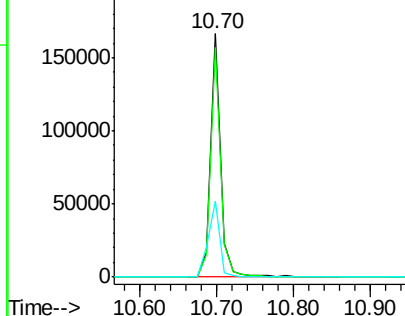
Tgt Ion:	330	Resp:	149665
Ion Ratio	Lower	Upper	
330	100		
332	94.1	77.1	115.7
141	36.0	29.8	44.8

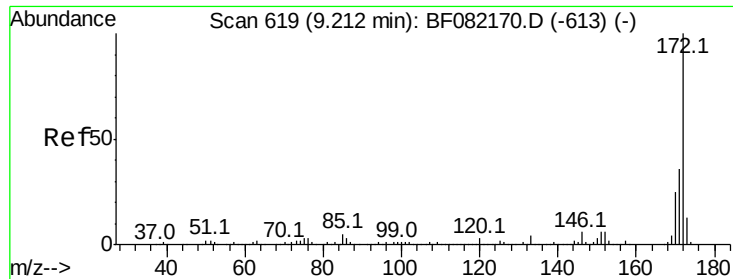


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





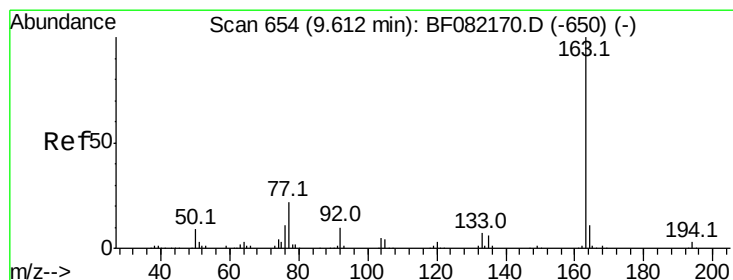
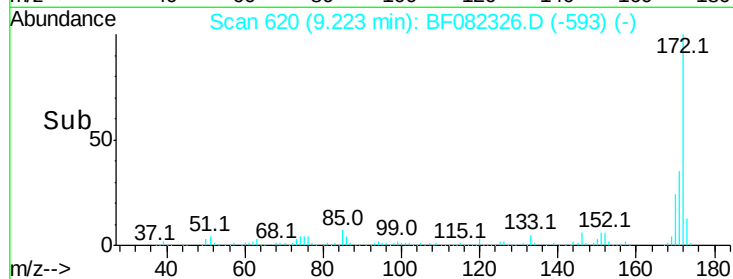
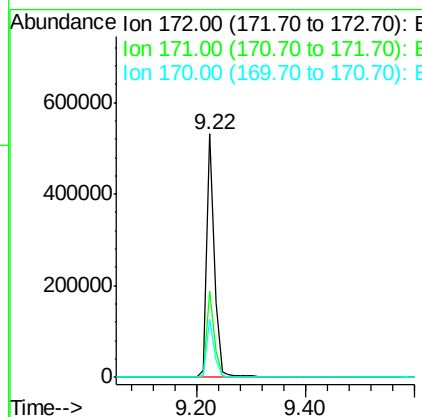
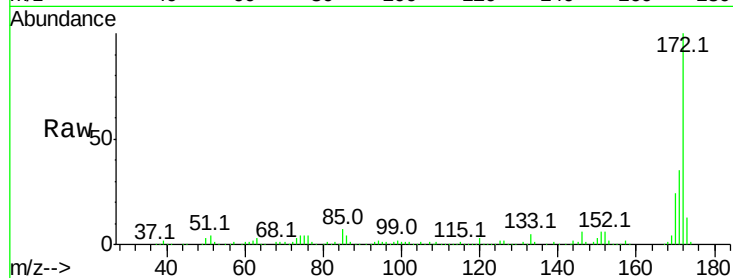
#44
2-Fluorobiphenyl
Concen: 76.13 ng
RT: 9.22 min Scan# 620
Delta R.T. 0.01 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Instrument :
BNA_F
ClientSampleId :
CWC-1-20151014

Tot Ion:	172	Resp:	519562
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	42.8
170	23.6	19.7	29.5

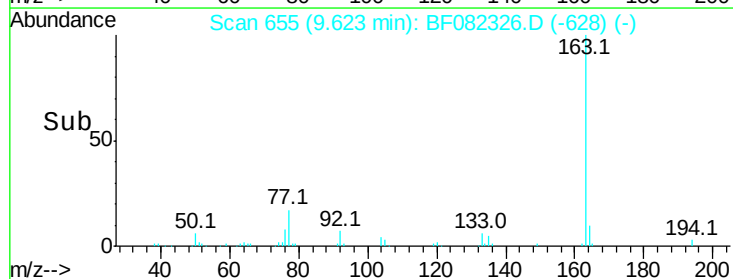
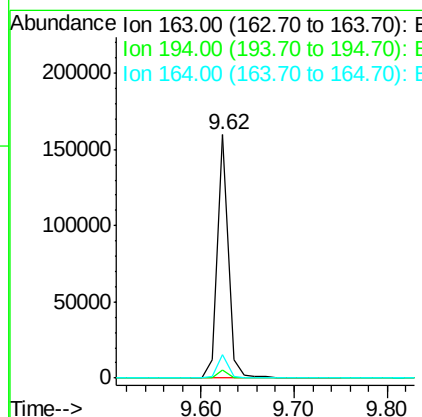
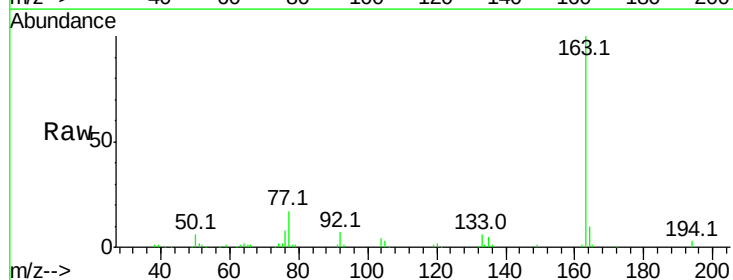
Manual Integrations
APPROVED

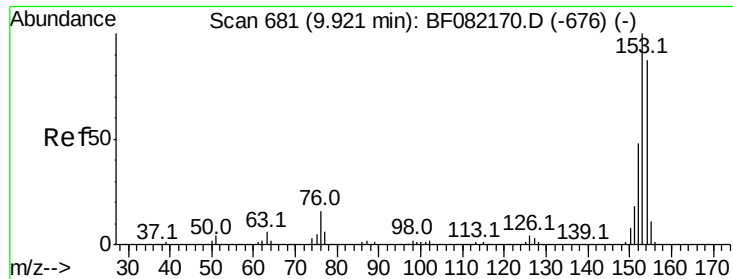
MMdadoda
10/19/2015 5:32:08 PM



#49
Dimethylphthalate
Concen: 16.34 ng
RT: 9.62 min Scan# 655
Delta R.T. 0.01 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Tgt Ion:	163	Resp:	130209
Ion Ratio	Lower	Upper	
163	100		
194	3.4	2.6	4.0
164	9.7	8.5	12.7





#51

Acenaphthene

Concen: 2.09 ng

RT: 9.93 min Scan# 682

Delta R.T. 0.01 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

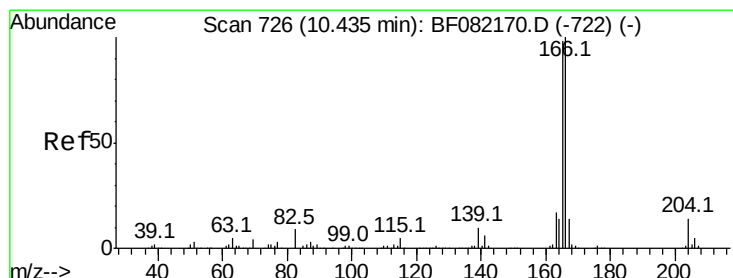
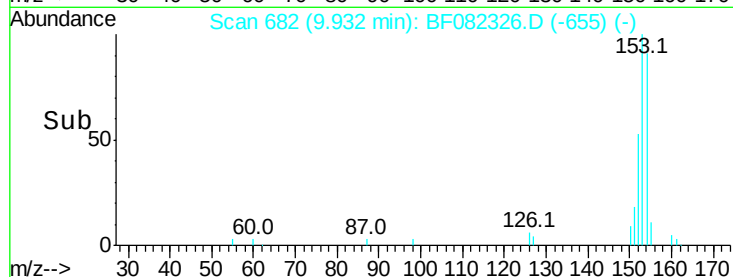
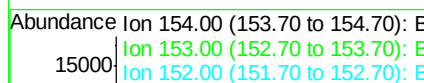
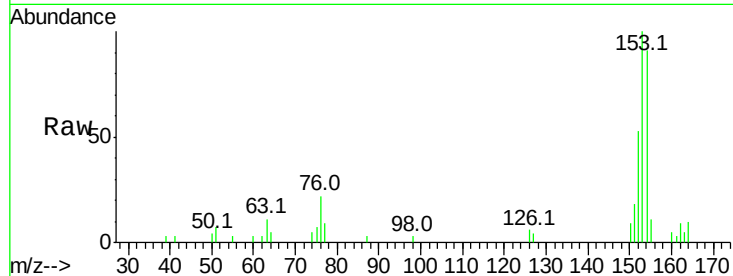
ClientSampleId :

CWC-1-20151014

Tot Ion:	154	Resp:	13282
Ion Ratio	Lower	Upper	
154	100		
153	109.4	91.4	137.2
152	57.4	44.3	66.5

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#57

Fluorene

Concen: 2.74 ng

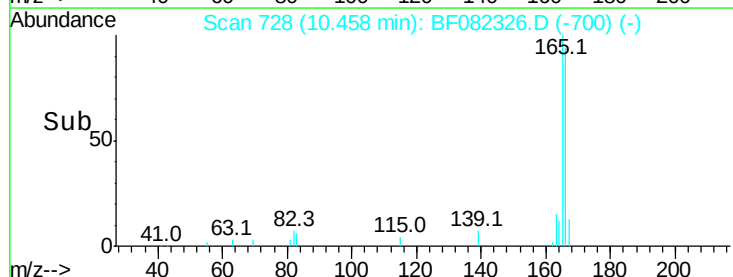
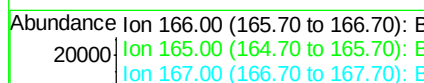
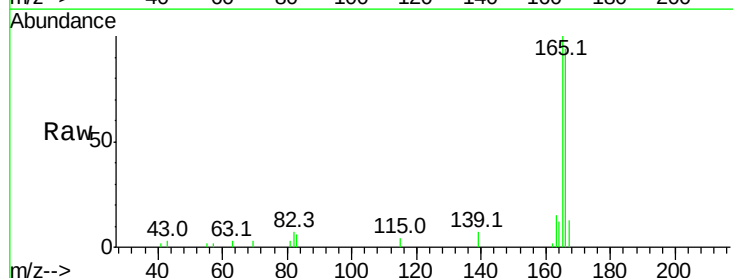
RT: 10.46 min Scan# 728

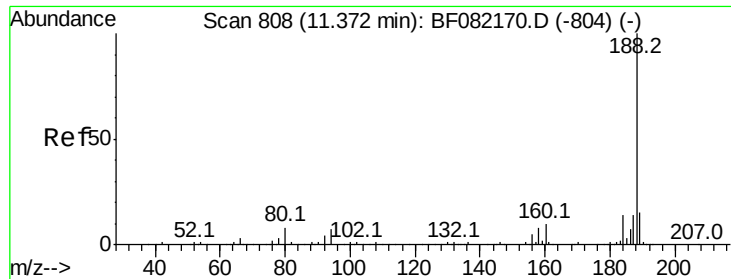
Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	166	Resp:	19611
Ion Ratio	Lower	Upper	
166	100		
165	106.3	78.3	117.5
167	13.5	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 810

Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

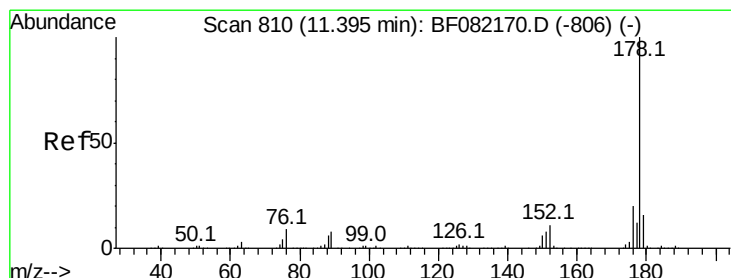
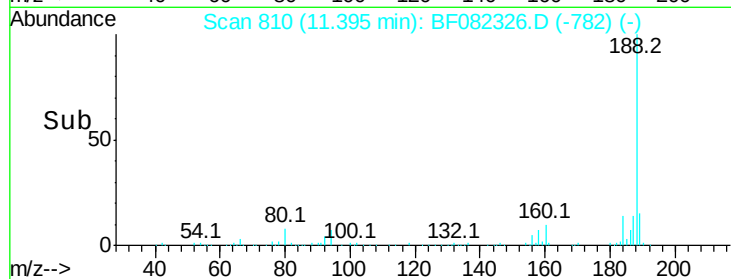
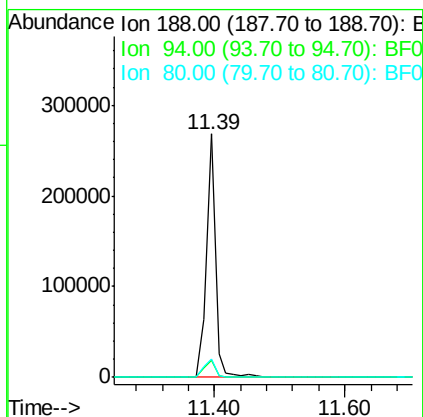
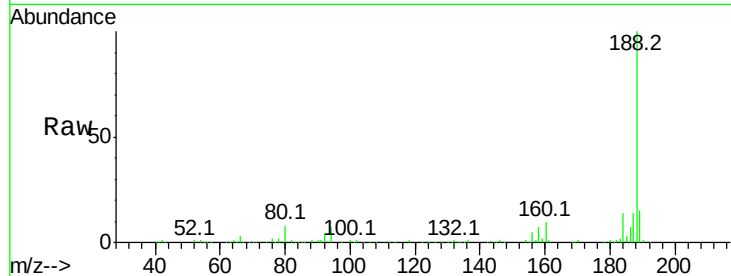
ClientSampleId :

CWC-1-20151014

Tot Ion:188	Resp:	260604
Ion Ratio	Lower	Upper
188 100		
94 7.2	5.8	8.6
80 7.7	6.4	9.6

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#70

Phenanthrene

Concen: 23.45 ng

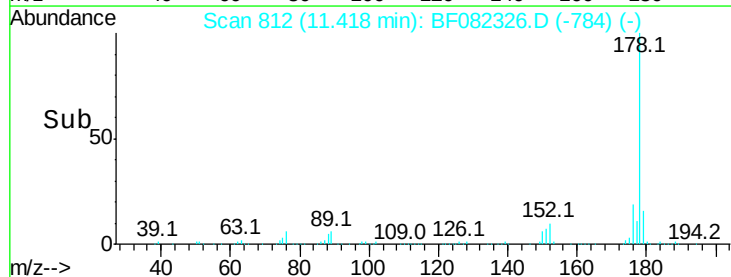
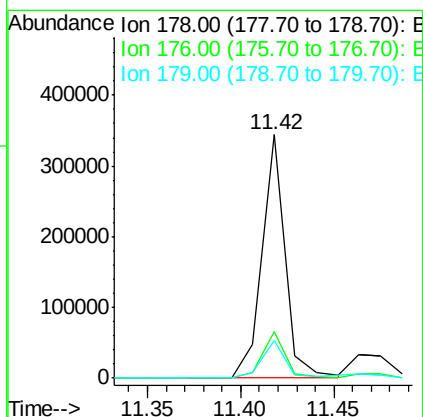
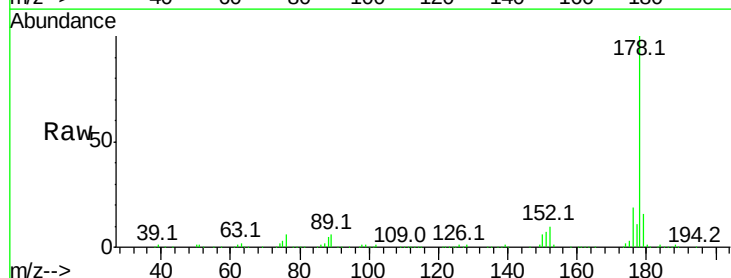
RT: 11.42 min Scan# 812

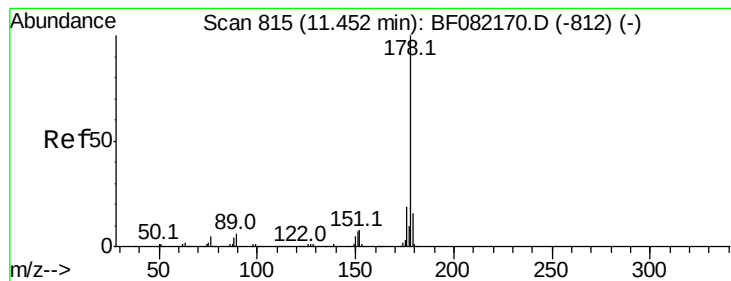
Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:178	Resp:	299487
Ion Ratio	Lower	Upper
178 100		
176 19.3	16.0	24.0
179 15.7	12.6	19.0





#71

Anthracene

Concen: 4.21 ng

RT: 11.46 min Scan# 816

Delta R.T. 0.01 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

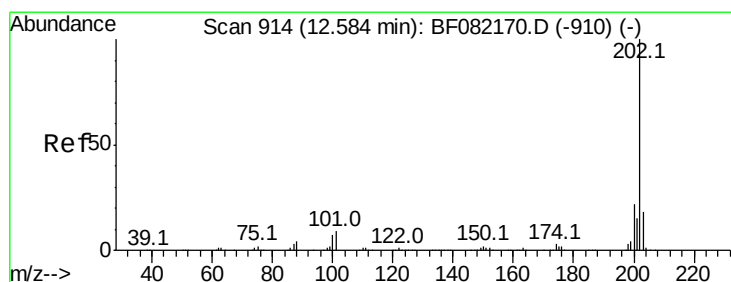
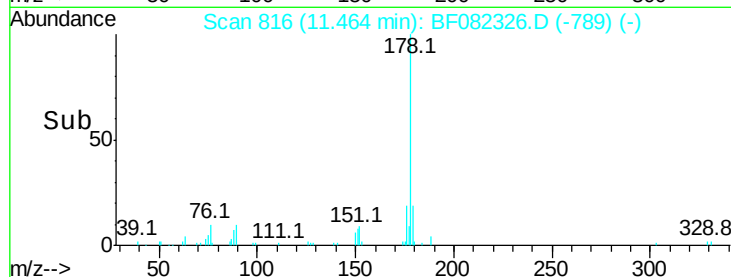
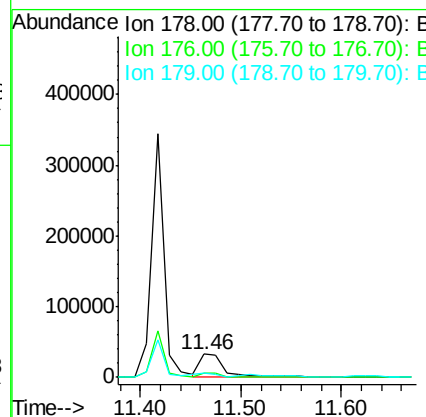
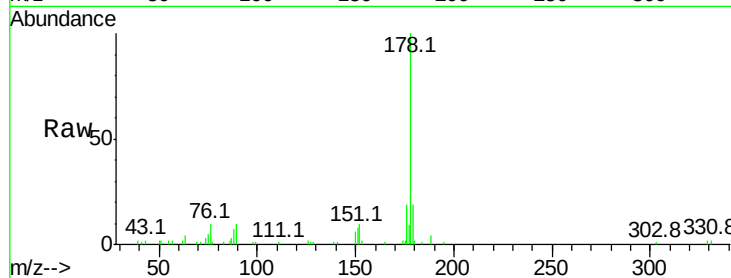
ClientSampleId :

CWC-1-20151014

Tot Ion:	178	Resp:	55466
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.4	23.0
179	18.6	12.5	18.7

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#74

Fluoranthene

Concen: 21.05 ng

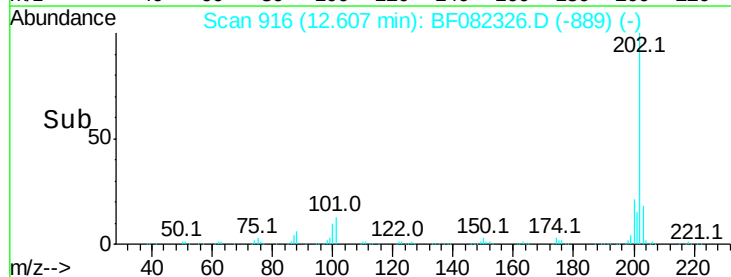
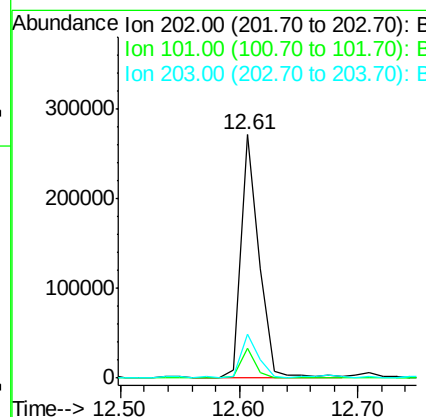
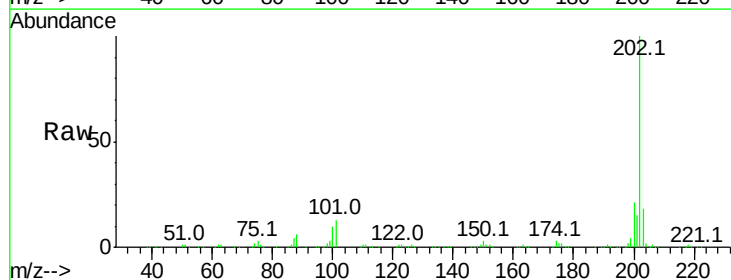
RT: 12.61 min Scan# 916

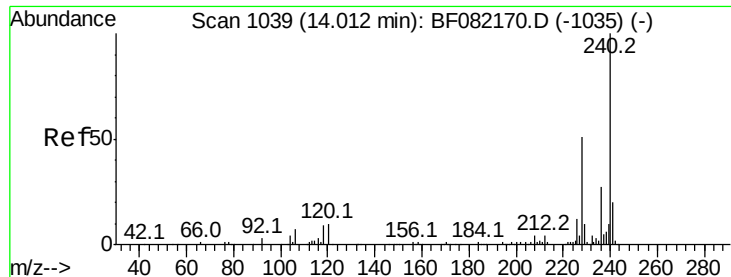
Delta R.T. 0.01 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	202	Resp:	288804
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	29.3
203	18.0	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.05 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

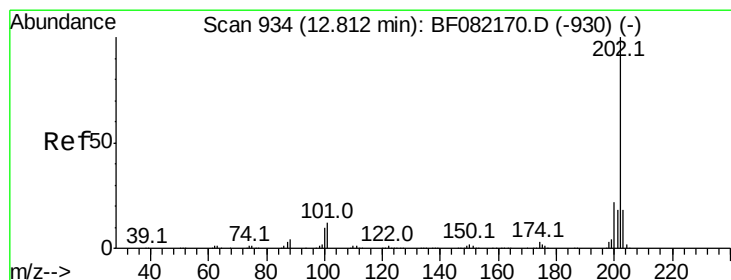
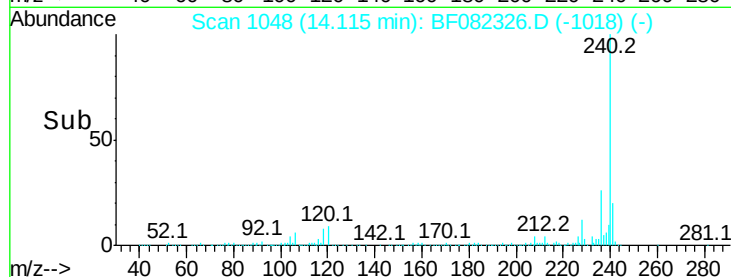
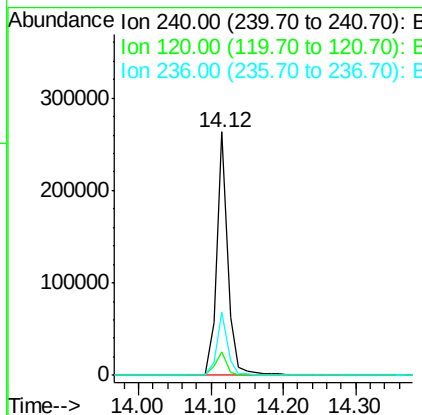
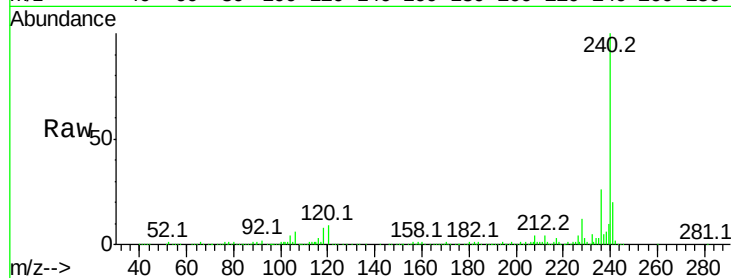
ClientSampleId :

CWC-1-20151014

Tot Ion:	240	Resp:	283010
Ion Ratio	Lower	Upper	
240	100		
120	9.4	8.1	12.1
236	26.1	21.3	31.9

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#77

Pyrene

Concen: 19.21 ng

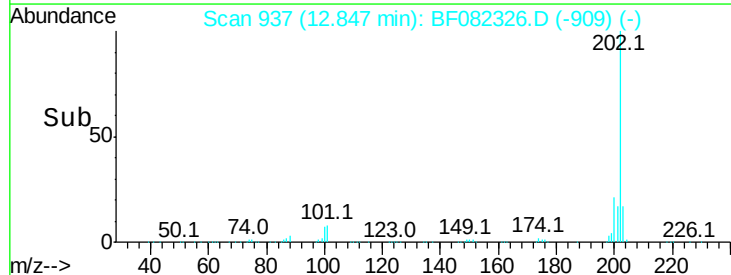
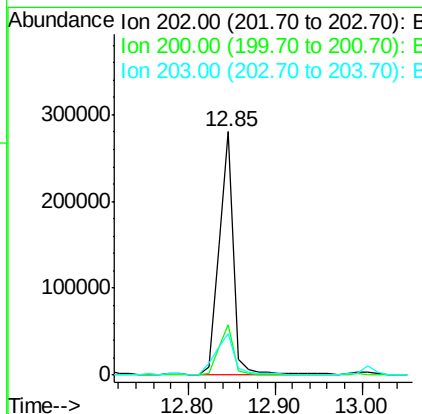
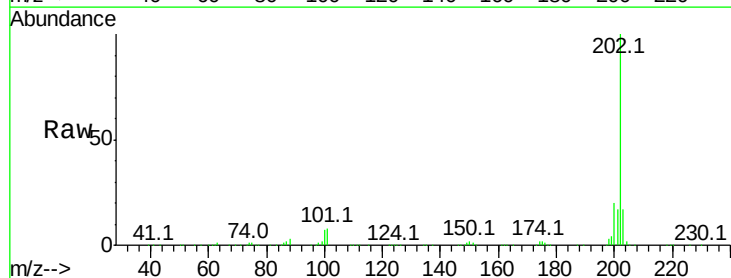
RT: 12.85 min Scan# 937

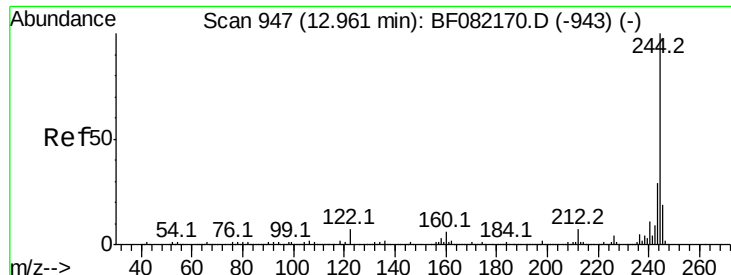
Delta R.T. 0.02 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	202	Resp:	322716
Ion Ratio	Lower	Upper	
202	100		
200	20.4	17.9	26.9
203	16.8	14.5	21.7





#78

Terphenyl-d14

Concen: 66.08 ng

RT: 13.00 min Scan# 950

Delta R.T. 0.03 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

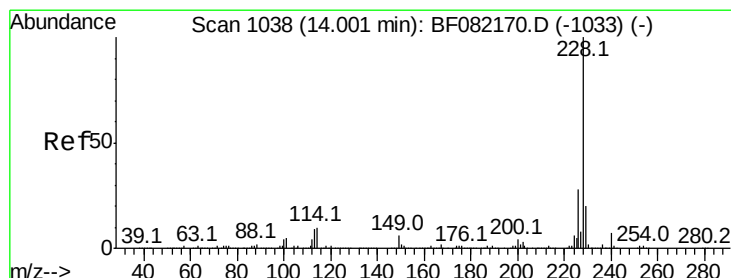
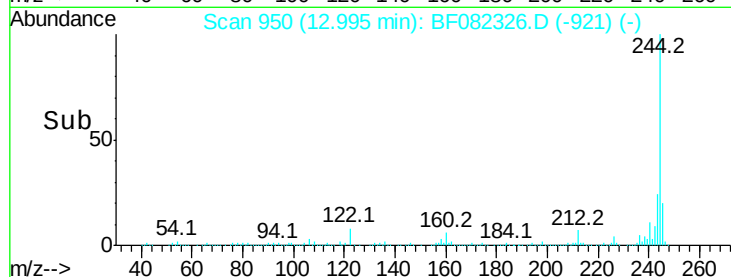
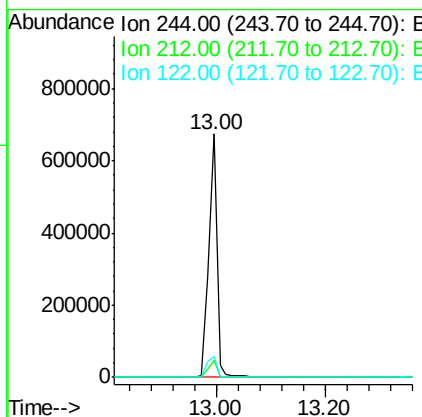
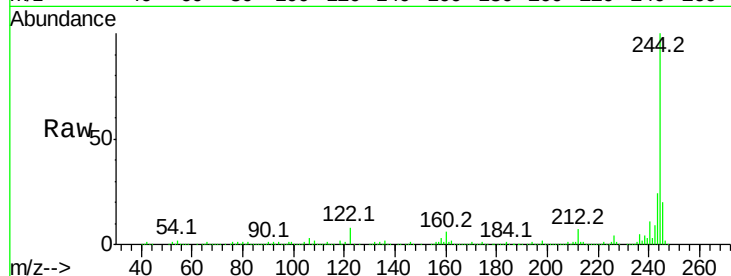
ClientSampleId :

CWC-1-20151014

Tot Ion:	244	Resp:	705740
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.8	8.6
122	8.3	5.9	8.9

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



#80

Benzo(a)anthracene

Concen: 10.21 ng

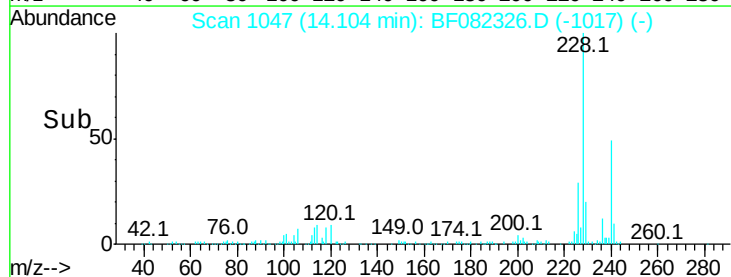
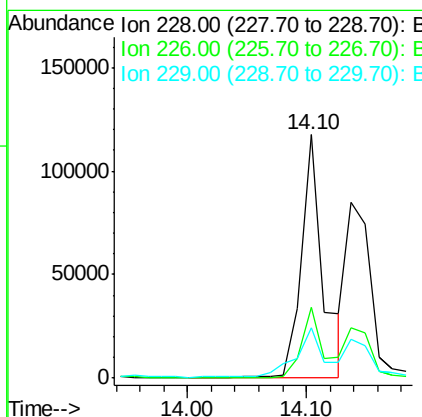
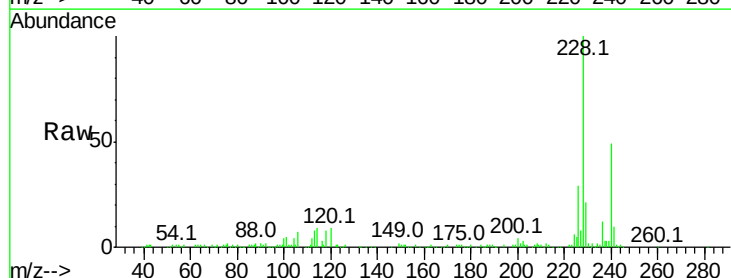
RT: 14.10 min Scan# 1047

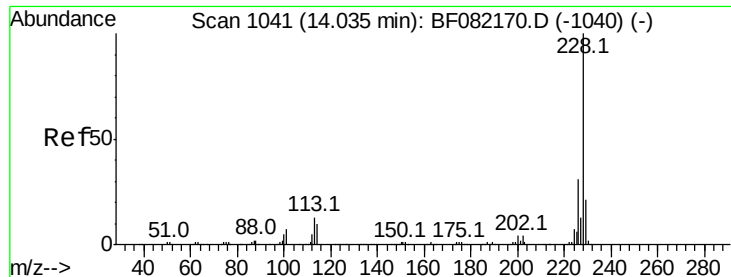
Delta R.T. 0.05 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	228	Resp:	150407
Ion Ratio	Lower	Upper	
228	100		
226	28.9	22.3	33.5
229	20.7	16.2	24.2





#82

Chrysene

Concen: 7.82 ng

RT: 14.14 min Scan# 1050

Delta R.T. 0.05 min

Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Instrument :

BNA_F

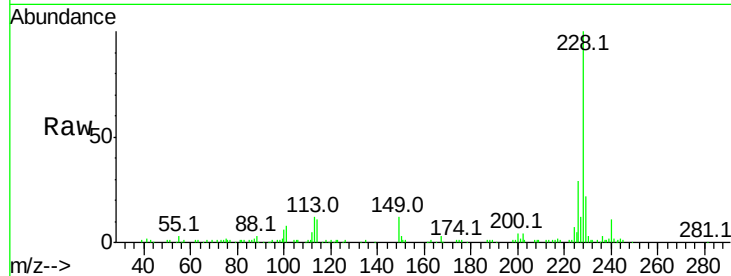
ClientSampleId :

CWC-1-20151014

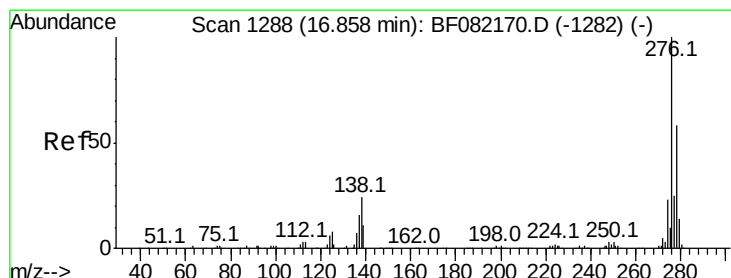
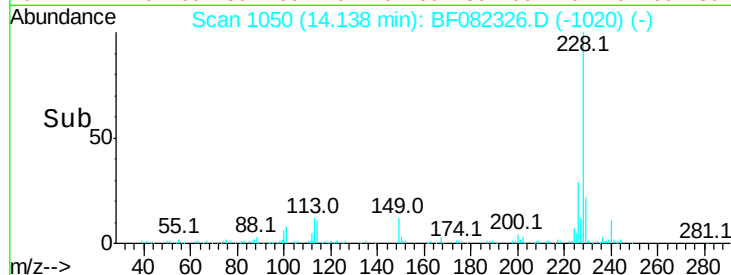
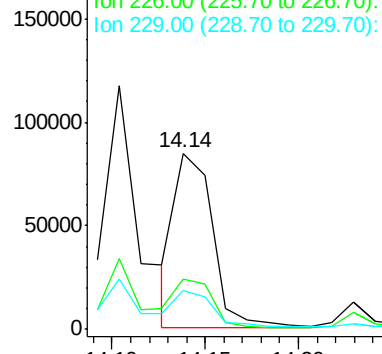
Tot Ion:	228	Resp:	121271
Ion Ratio	Lower	Upper	
228	100		
226	28.9	24.4	36.6
229	22.3	16.3	24.5

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:08 PM



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.10 ng

RT: 17.16 min Scan# 1314

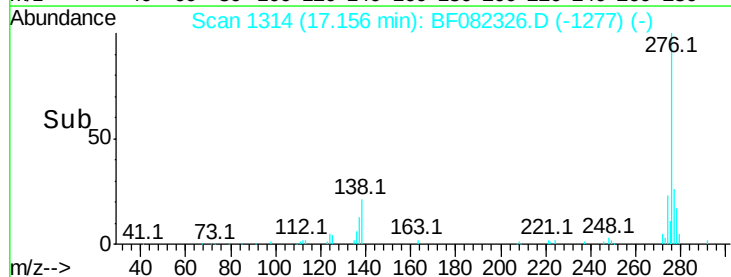
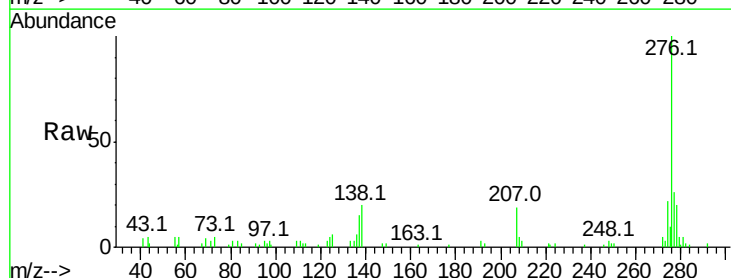
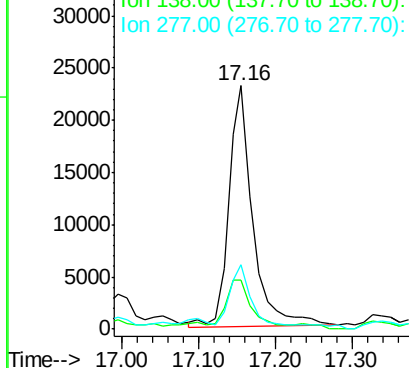
Delta R.T. 0.13 min

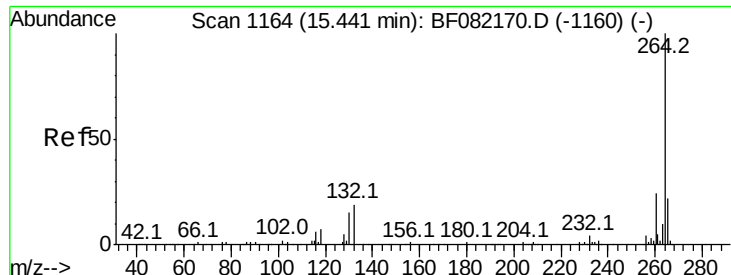
Lab File: BF082326.D

Acq: 16 Oct 2015 15:20

Tgt Ion:	276	Resp:	50579
Ion Ratio	Lower	Upper	
276	100		
138	20.0	19.7	29.5
277	28.1	20.1	30.1

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





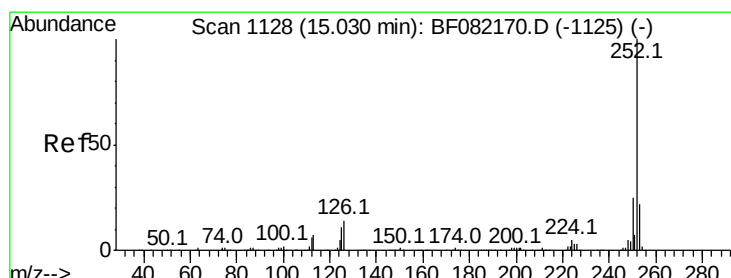
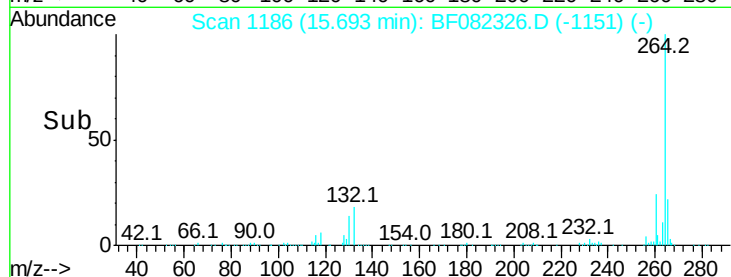
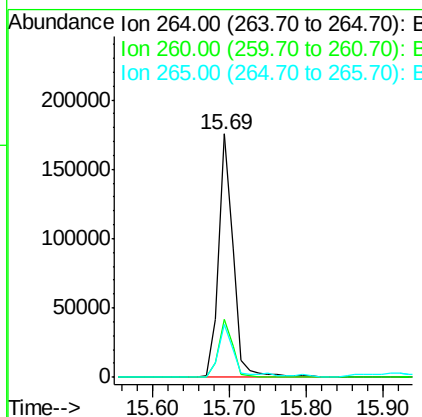
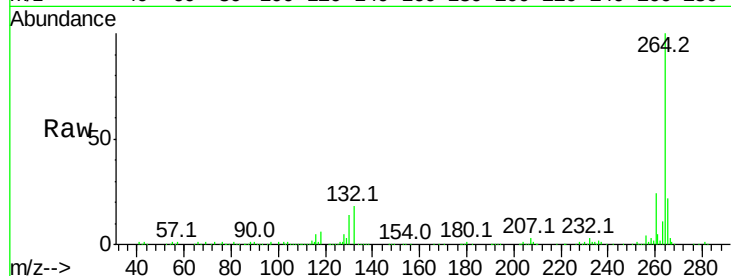
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.69 min Scan# 1186
Delta R.T. 0.10 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Instrument :
BNA_F
ClientSampleId :
CWC-1-20151014

Tot Ion	Ratio	Resp	Lower	Upper
264	100	233312		
260	24.0	19.0	28.6	
265	21.8	17.3	25.9	

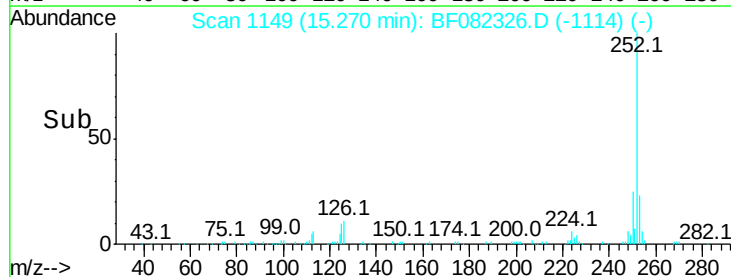
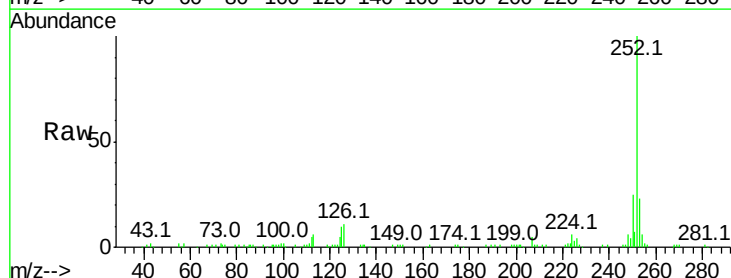
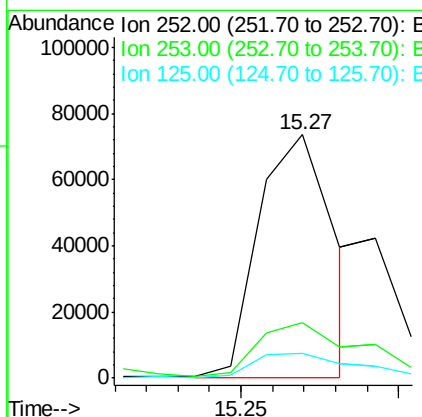
Manual Integrations
APPROVED

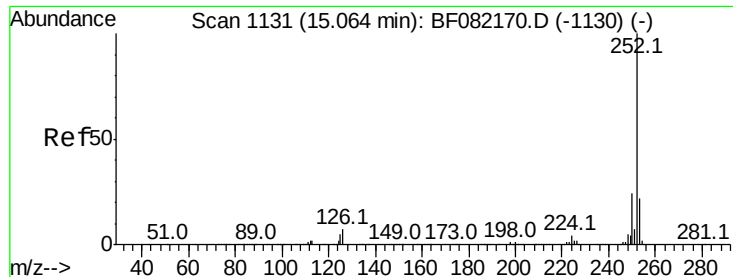
MMdadoda
10/19/2015 5:32:08 PM



#87
Benzo(b)fluoranthene
Concen: 8.56 ng m
RT: 15.27 min Scan# 1149
Delta R.T. 0.10 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	121533		
253	22.9	18.0	27.0	
125	10.4	8.6	12.8	





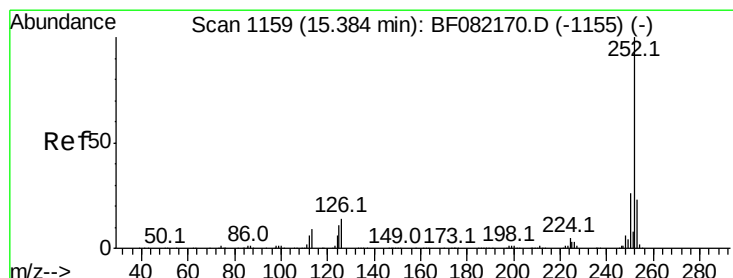
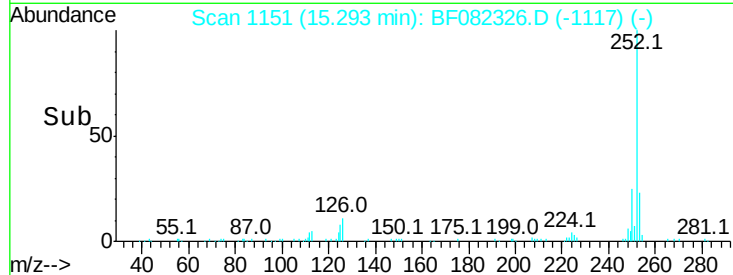
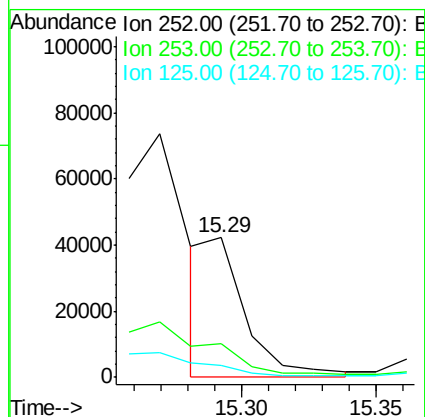
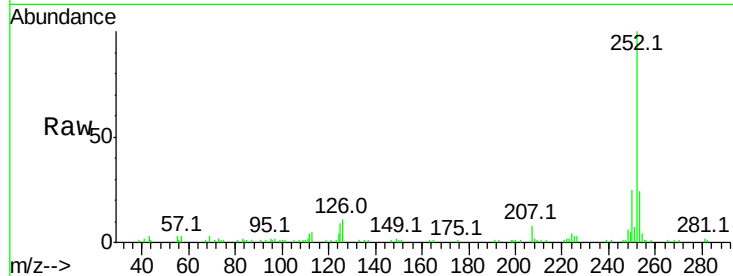
#88
Benzo(k)fluoranthene
Concen: 3.61 ng m
RT: 15.29 min Scan# 1151
Delta R.T. 0.09 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Instrument :
BNA_F
ClientSampleId :
CWC-1-20151014

Tot Ion:	252	Resp:	43074
Ion Ratio	Lower	Upper	
252	100		
253	24.5	17.8	26.6
125	8.5	6.7	10.1

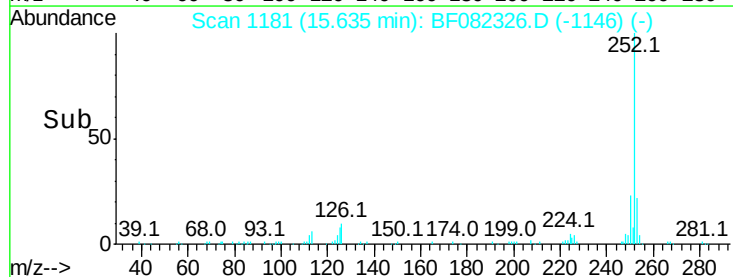
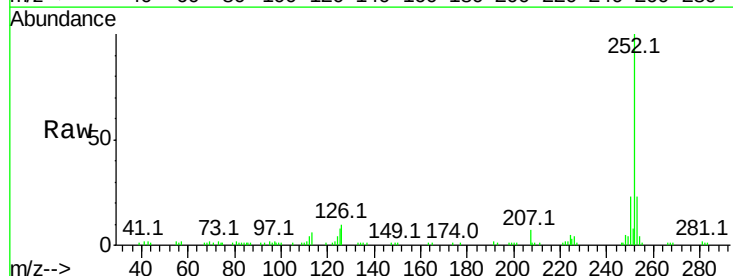
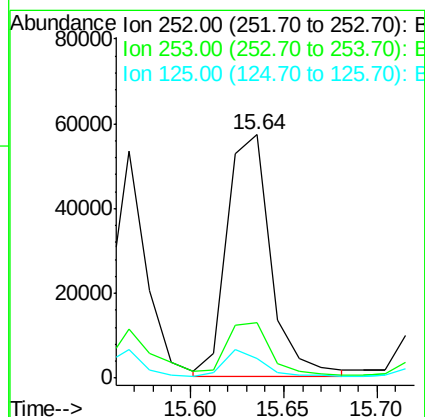
Manual Integrations
APPROVED

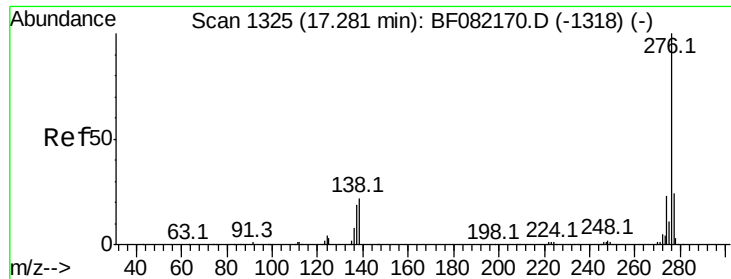
MMdadoda
10/19/2015 5:32:08 PM



#89
Benzo(a)pyrene
Concen: 7.64 ng m
RT: 15.64 min Scan# 1181
Delta R.T. 0.10 min
Lab File: BF082326.D
Acq: 16 Oct 2015 15:20

Tgt Ion:	252	Resp:	93230
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.2
125	8.1	8.9	13.3#





#91
 Benzo(a,h,i)perylene
 Concen: 5.47 ng
 RT: 17.59 min Scan# 1352
 Delta R.T. 0.13 min
 Lab File: BF082326.D
 Acq: 16 Oct 2015 15:20

Instrument :
 BNA_F
 ClientSampleId :
 CWC-1-20151014

Tot Ion:	276	Resp:	53148
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.8	28.2
138	21.7	17.4	26.2

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:08 PM

