

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
 Data File : BF082312.D
 Acq On : 15 Oct 2015 16:36
 Operator : UM/IZ
 Sample : G4009-03
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

Manual Integrations
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Quant Time: Oct 16 06:49:00 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 16 01:04:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	85969	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	341482	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	173448	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	298071	20.00	ng	0.01
75) Chrysene-d12	14.08	240	214049	20.00	ng	-0.01
86) Perylene-d12	15.65	264	210888	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	458489	107.64	ng	0.01
7) Phenol-d6	6.47	99	587485	105.98	ng	0.00
23) Nitrobenzene-d5	7.39	82	376880	74.12	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	133766	82.24	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	763960	73.04	ng	0.00
78) Terphenyl-d14	12.96	244	566097	70.08	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.14	128	97138	6.56	ng	99
37) 2-Methylnaphthalene	8.83	142	26448	2.58	ng	98
48) Acenaphthylene	9.74	152	47313	2.92	ng	99
49) Dimethylphthalate	9.59	163	181357	14.85	ng	99
51) Acenaphthene	9.91	154	62233	6.39	ng	98
54) Dibenzofuran	10.08	168	90102	6.74	ng	96
57) Fluorene	10.42	166	94520m	8.61	ng	
70) Phenanthrene	11.40	178	1138274	77.91	ng	99
71) Anthracene	11.44	178	284594	18.90	ng	99
72) Carbazole	11.60	167	170316	12.40	ng	98
74) Fluoranthene	12.58	202	1004350	64.00	ng	96
77) Pyrene	12.82	202	791144	62.28	ng	99
80) Benzo(a)anthracene	14.07	228	422398	37.93	ng	99
82) Chrysene	14.12	228	366324	31.22	ng	97
85) Indeno(1,2,3-cd)pyrene	17.10	276	153467	16.45	ng	94
87) Benzo(b)fluoranthene	15.22	252	371406m	28.95	ng	
88) Benzo(k)fluoranthene	15.24	252	189882m	17.61	ng	
89) Benzo(a)pyrene	15.59	252	278169	25.23	ng	98
90) Dibenzo(a,h)anthracene	17.11	278	38575	4.27	ng	# 93
91) Benzo(a,h,i)perylene	17.53	276	125135	14.26	ng	98

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

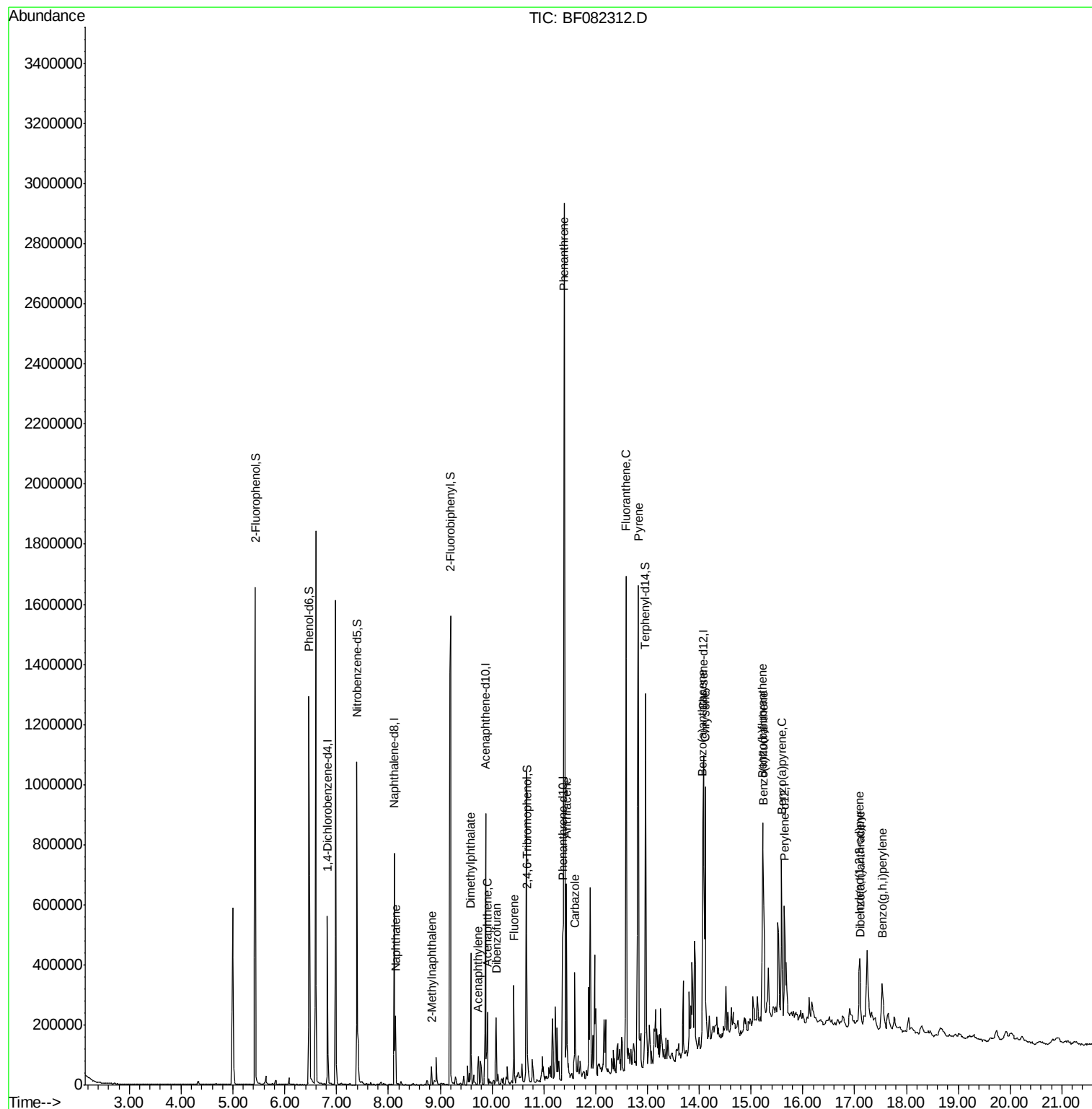
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
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ALS Vial : 48 Sample Multiplier: 1

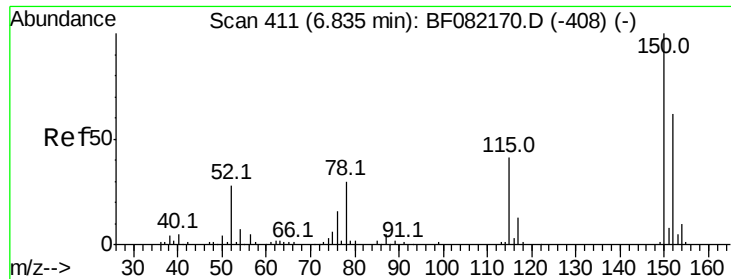
Instrument :
BNA_F
ClientSampleId :
KW-3

Quant Time: Oct 16 06:49:00 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
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#1

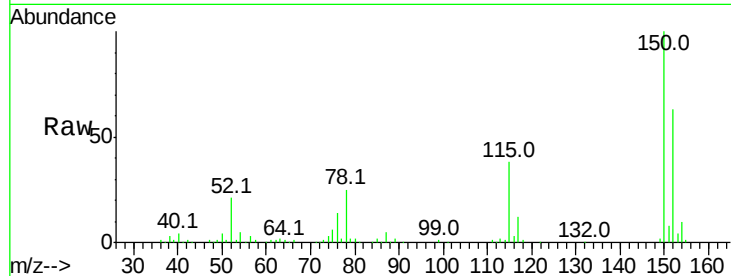
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

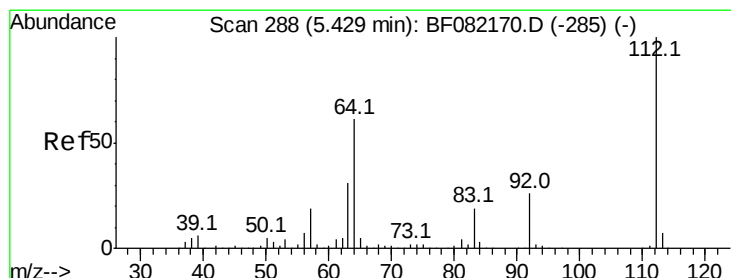
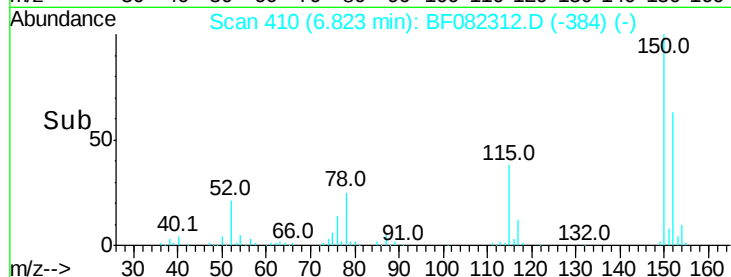
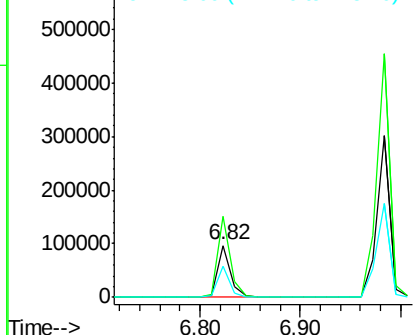
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	129.0	193.4
115	59.9	52.1	78.1

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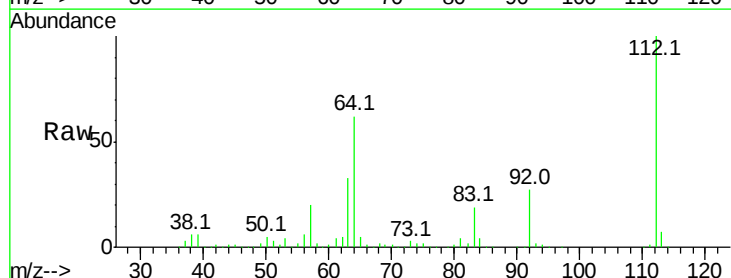
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



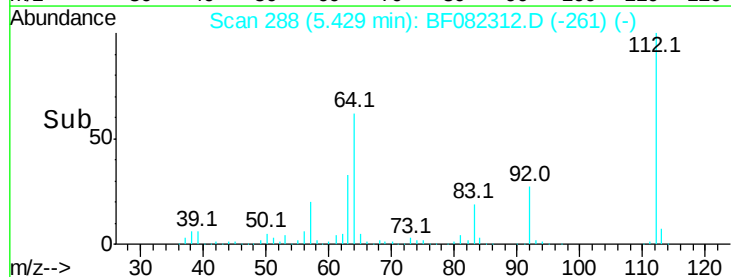
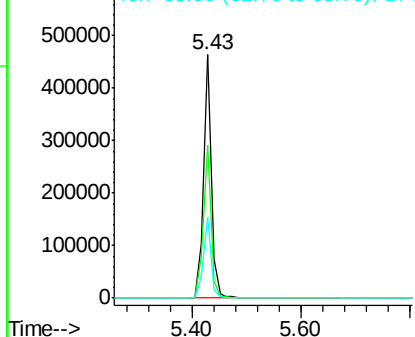
#5

2-Fluorophenol
Concen: 107.64 ng
RT: 5.43 min Scan# 288
Delta R.T. 0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.5	48.6	73.0
63	33.3	25.1	37.7



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: 105.98 ng

RT: 6.47 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

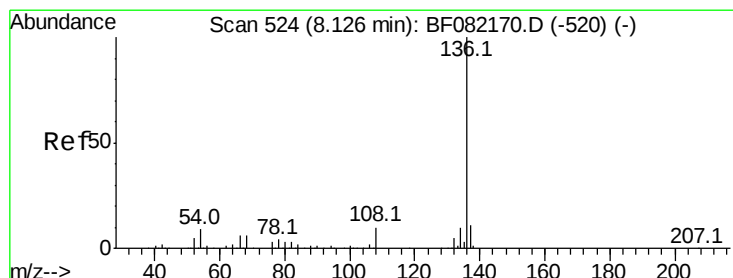
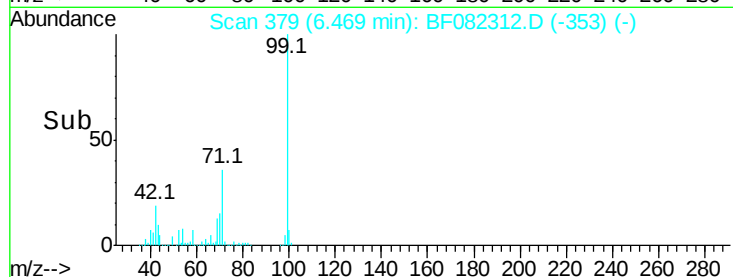
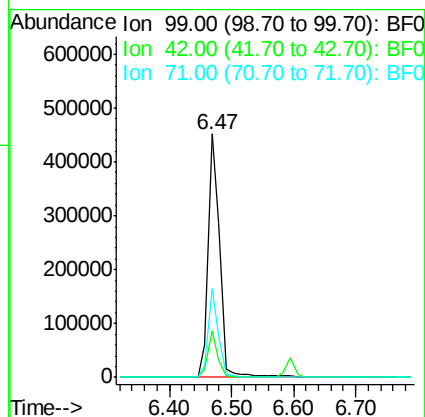
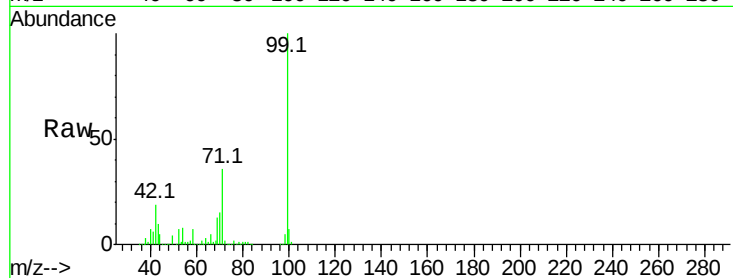
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		587485		
42	19.3	13.2	19.8		
71	36.3	25.6	38.4		



#21

Naphthalene-d8

Concen: 20.00 ng

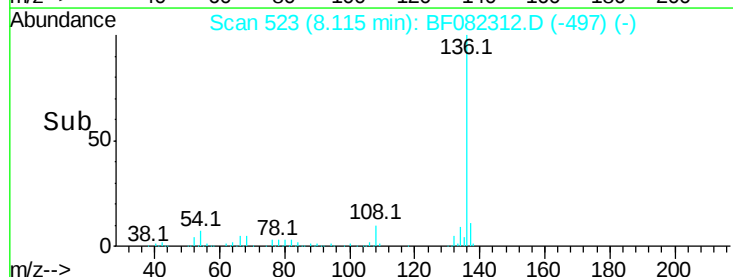
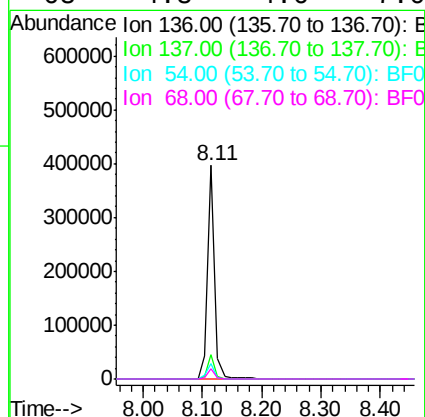
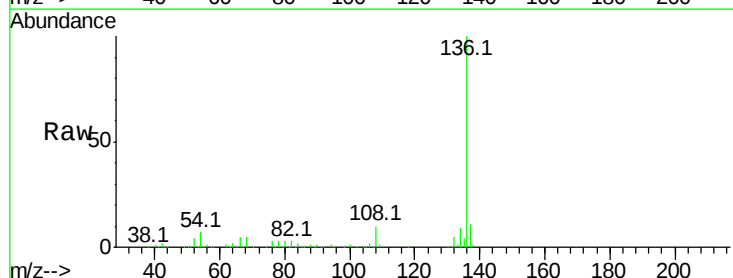
RT: 8.11 min Scan# 523

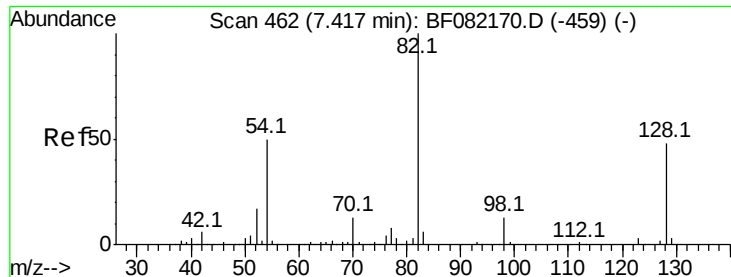
Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		341482		
137	11.1	9.0	13.6		
54	7.4	7.5	11.3#		
68	4.8	4.6	7.0		





#23

Nitrobenzene-d5

Concen: 74.12 ng

RT: 7.39 min Scan# 460

Delta R.T. -0.01 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

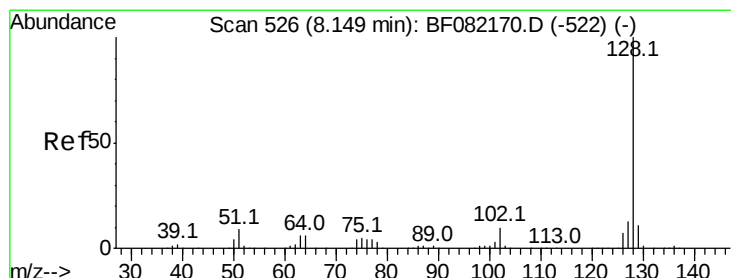
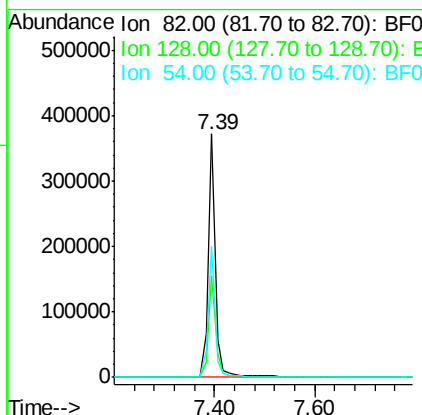
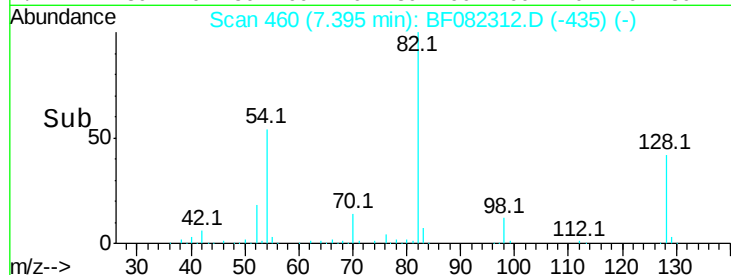
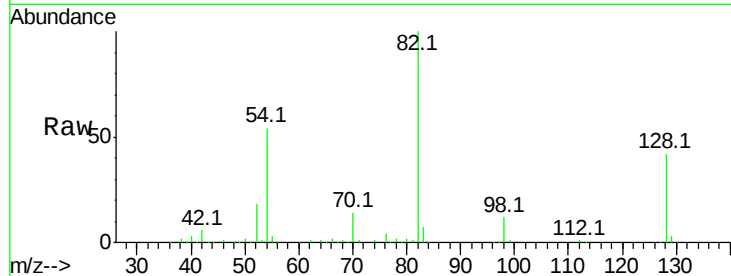
ClientSampled :

KW-3

Tot Ion:	82	Resp:	376880
Ion Ratio	Lower	Upper	
82	100		
128	41.7	38.7	58.1
54	53.8	40.1	60.1

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#31

Naphthalene

Concen: 6.56 ng

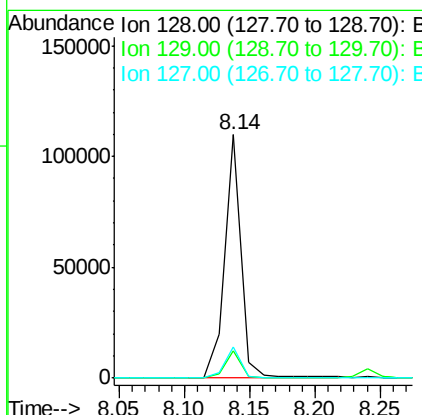
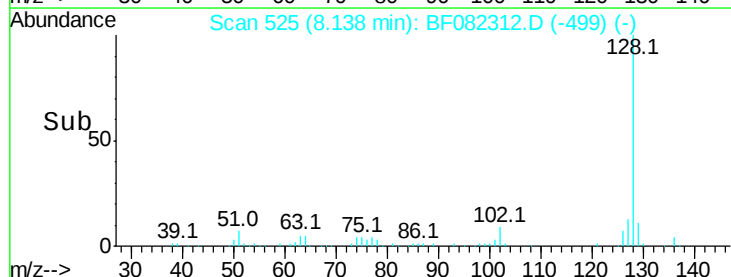
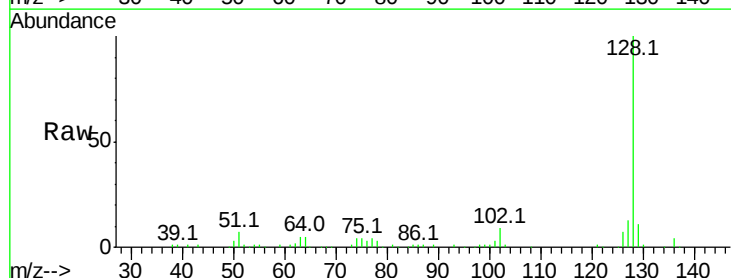
RT: 8.14 min Scan# 525

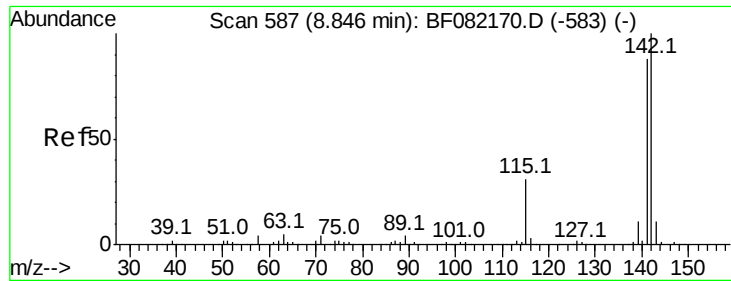
Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion:	128	Resp:	97138
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.1	13.7
127	13.0	10.7	16.1





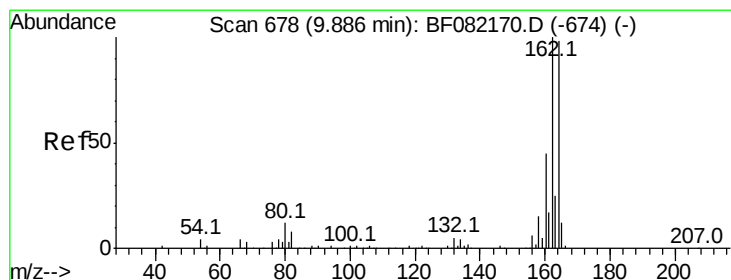
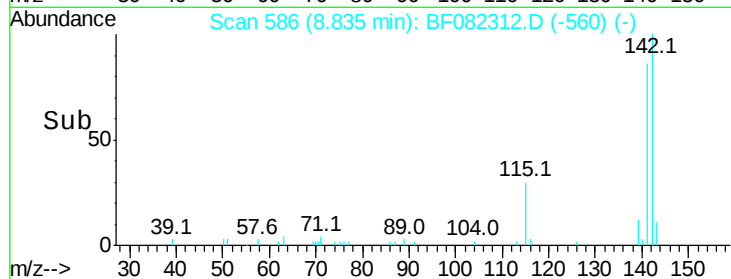
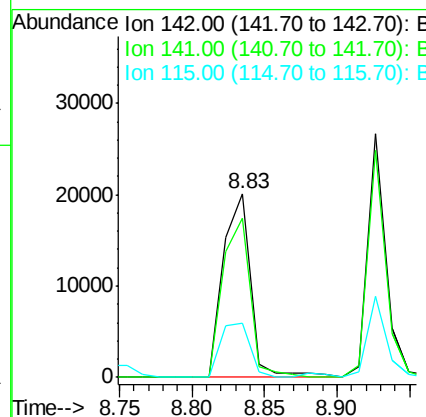
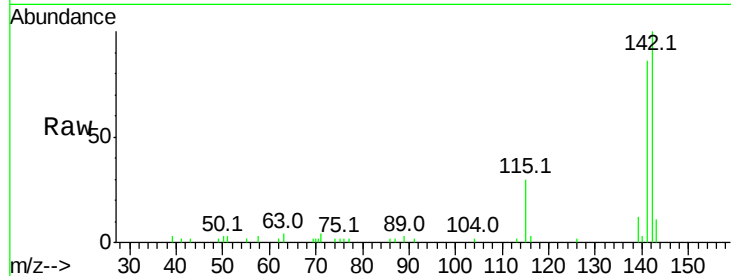
#37
2-Methylnaphthalene
Concen: 2.58 ng
RT: 8.83 min Scan# 586
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.4	70.4	105.6
115	29.8	24.6	37.0

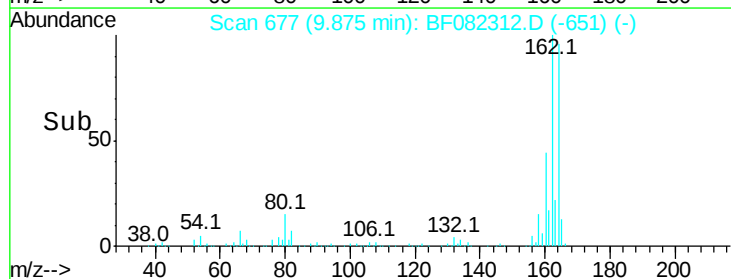
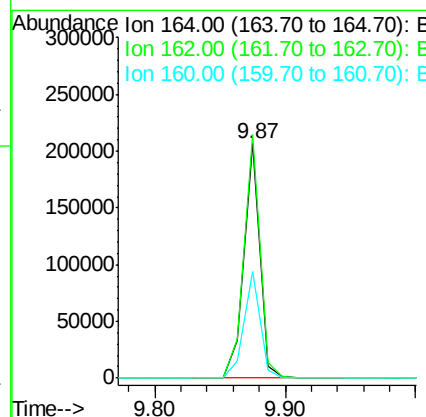
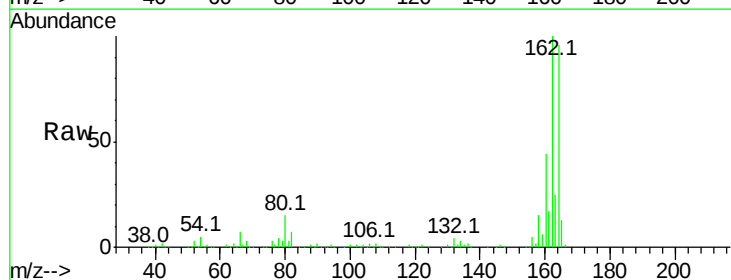
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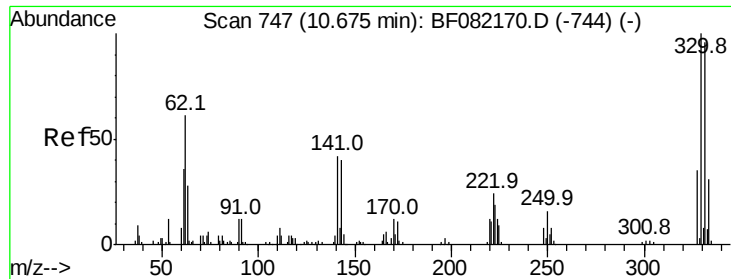
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.87 min Scan# 677
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.6	122.4
160	45.7	36.4	54.6





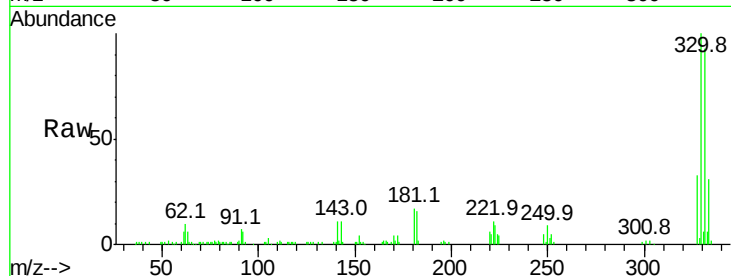
#41
 2,4,6-Tribromophenol
 Concen: 82.24 ng
 RT: 10.67 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: BF082312.D
 Acq: 15 Oct 2015 16:36

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

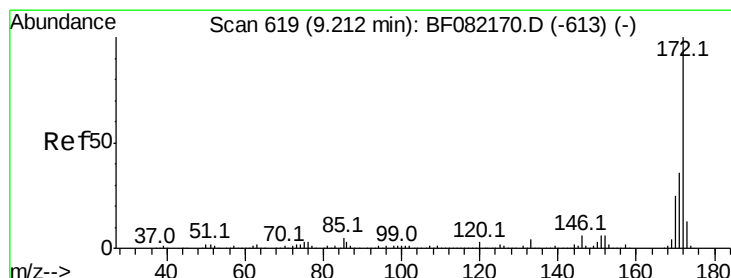
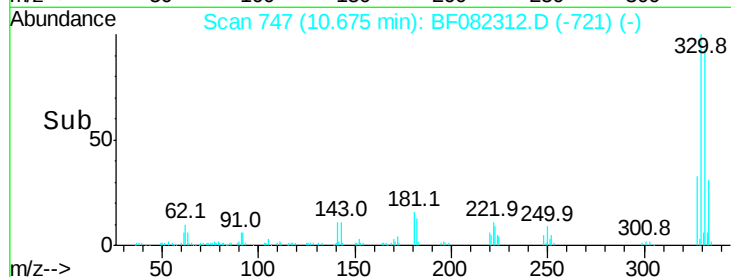
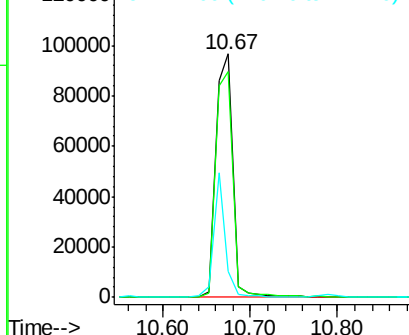
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.5	77.1	115.7	
141	35.1	29.8	44.8	

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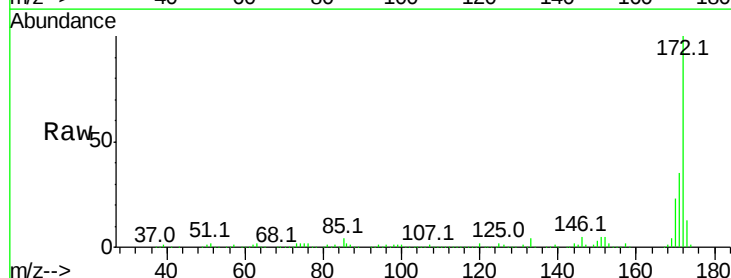


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

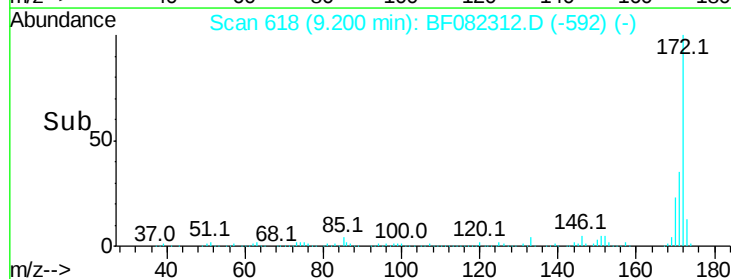
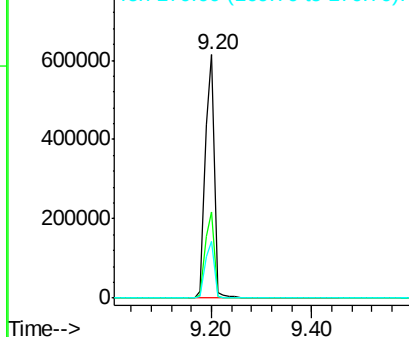


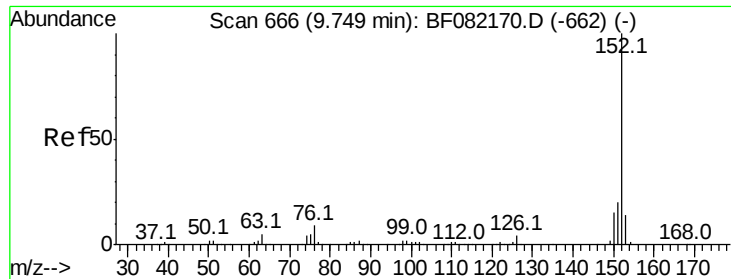
#44
 2-Fluorobiphenyl
 Concen: 73.04 ng
 RT: 9.20 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: BF082312.D
 Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	28.6	42.8	
170	23.5	19.7	29.5	



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: 2.92 ng

RT: 9.74 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

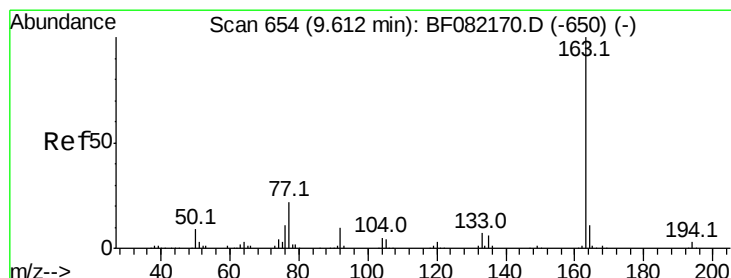
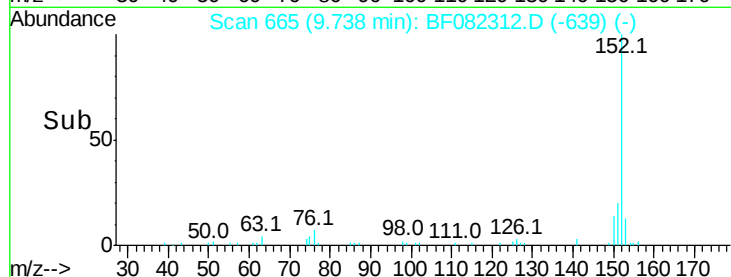
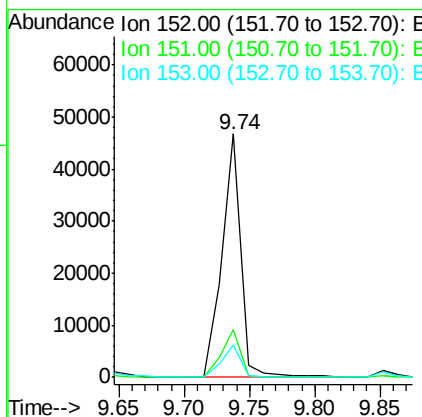
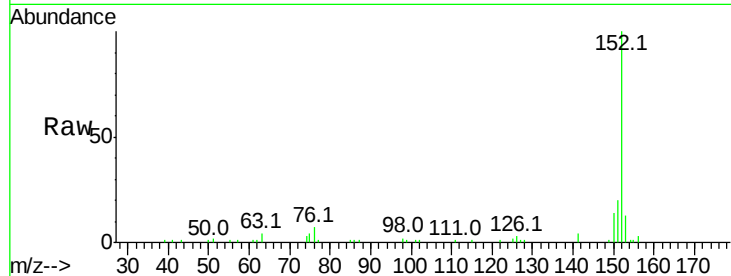
ClientSampleId :

KW-3

Tot Ion:	152	Resp:	47313
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.4	24.6
153	13.4	10.8	16.2

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#49

Dimethylphthalate

Concen: 14.85 ng

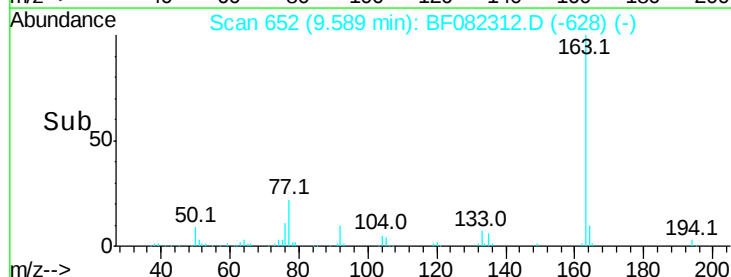
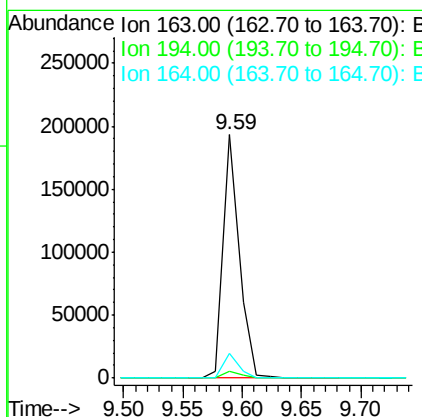
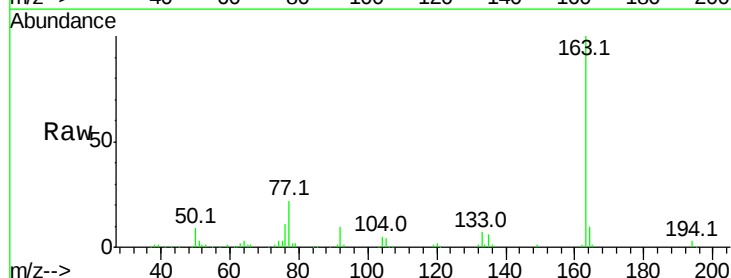
RT: 9.59 min Scan# 652

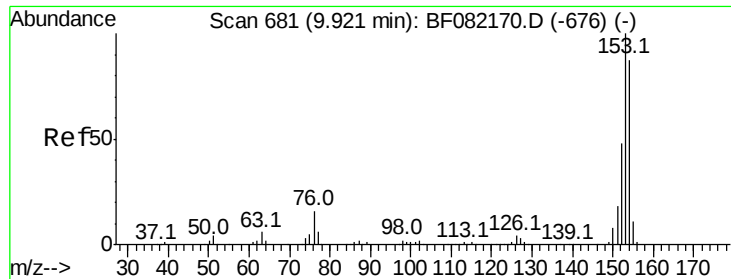
Delta R.T. -0.02 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion:	163	Resp:	181357
Ion Ratio	Lower	Upper	
163	100		
194	3.1	2.6	4.0
164	10.4	8.5	12.7





#51

Acenaphthene

Concen: 6.39 ng

RT: 9.91 min Scan# 680

Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

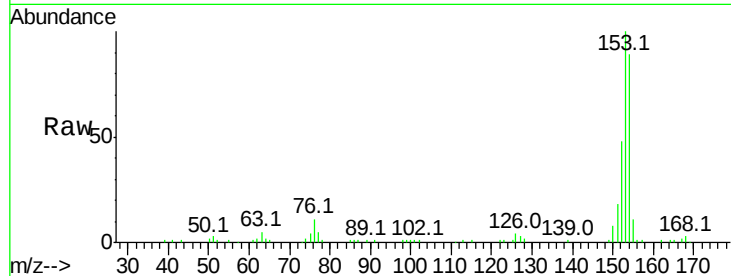
ClientSampleId :

KW-3

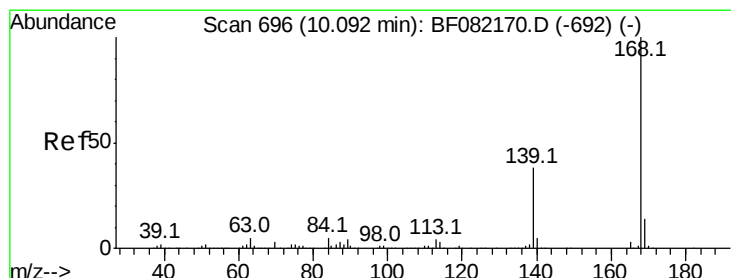
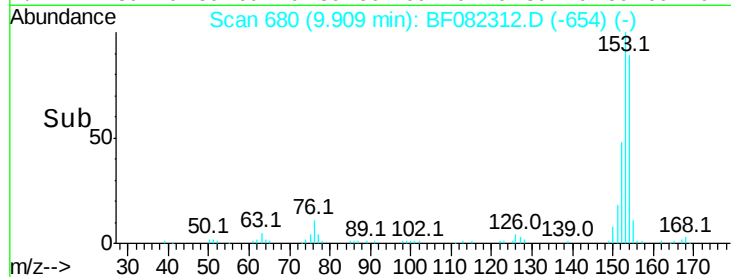
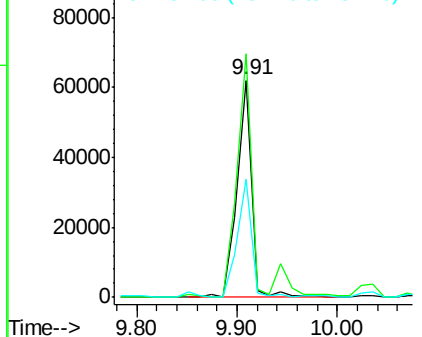
Tot Ion:	154	Resp:	62233
Ion Ratio	Lower	Upper	
154	100		
153	112.2	91.4	137.2
152	54.3	44.3	66.5

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.74 ng

RT: 10.08 min Scan# 695

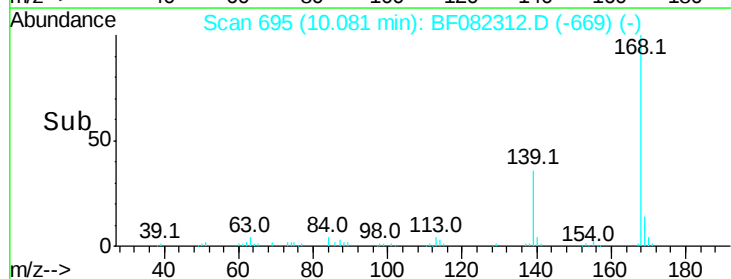
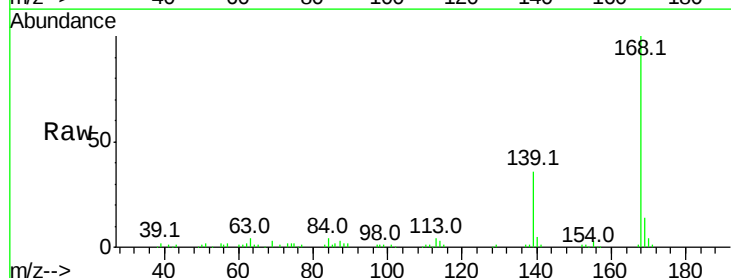
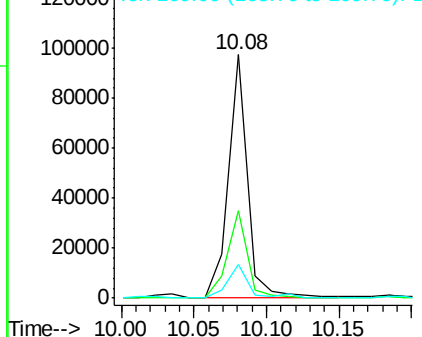
Delta R.T. 0.00 min

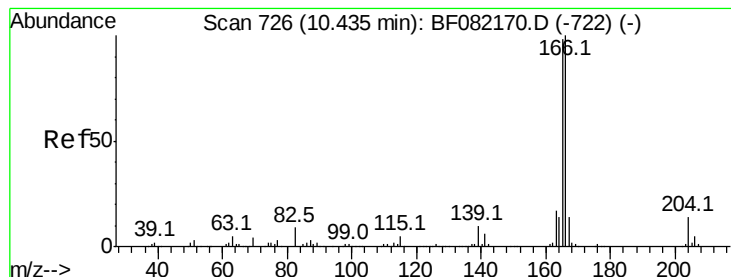
Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion:	168	Resp:	90102
Ion Ratio	Lower	Upper	
168	100		
139	36.0	31.0	46.6
169	13.7	10.9	16.3

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: 8.61 ng/mL

RT: 10.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

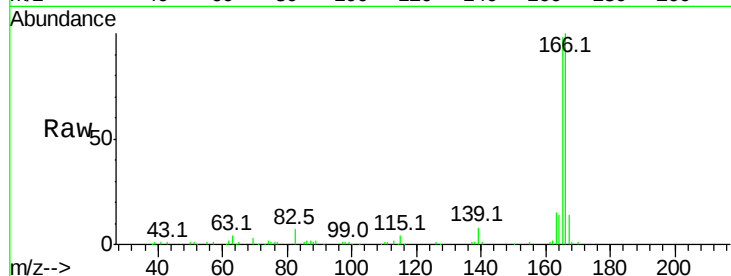
ClientSampleID :

KW-3

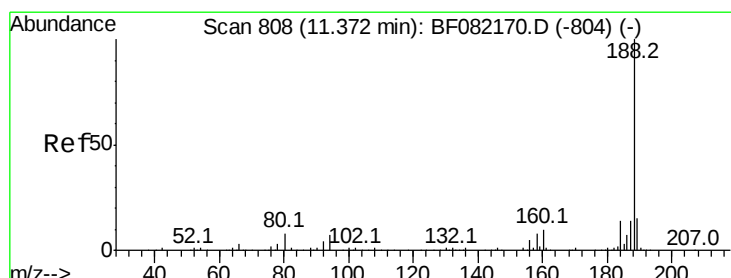
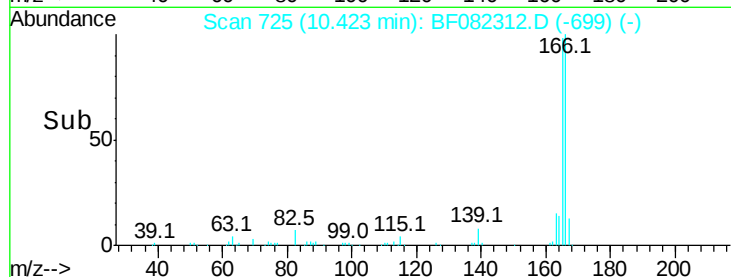
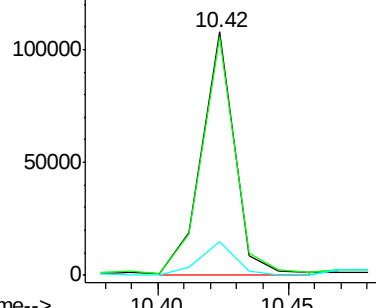
Tot Ion:	166	Resp:	94520
Ion Ratio	Lower	Upper	
166	100		
165	98.2	78.3	117.5
167	13.8	10.8	16.2

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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng/mL

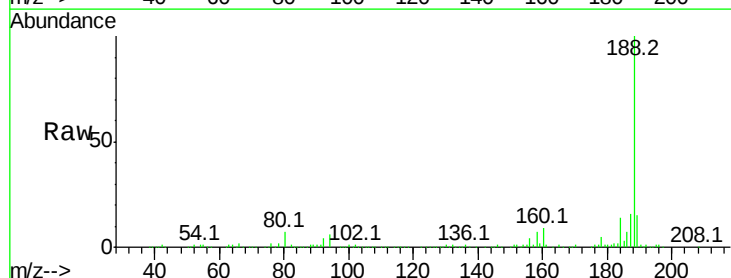
RT: 11.37 min Scan# 808

Delta R.T. 0.01 min

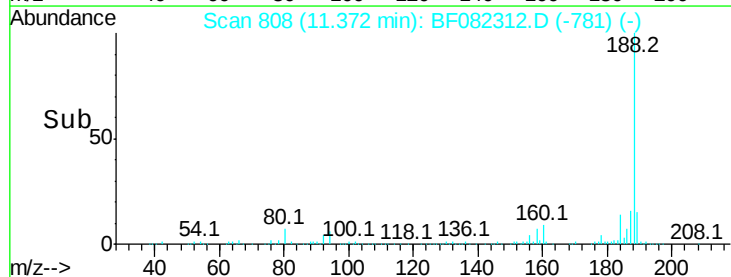
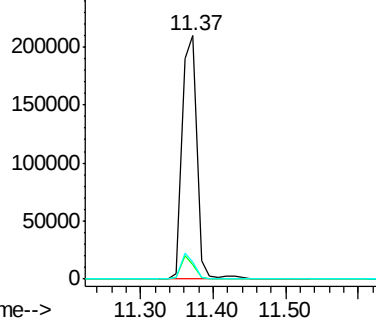
Lab File: BF082312.D

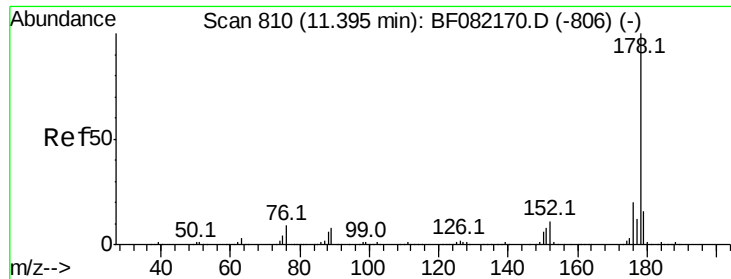
Acq: 15 Oct 2015 16:36

Tgt Ion:	188	Resp:	298071
Ion Ratio	Lower	Upper	
188	100		
94	5.8	5.8	8.6
80	6.8	6.4	9.6



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





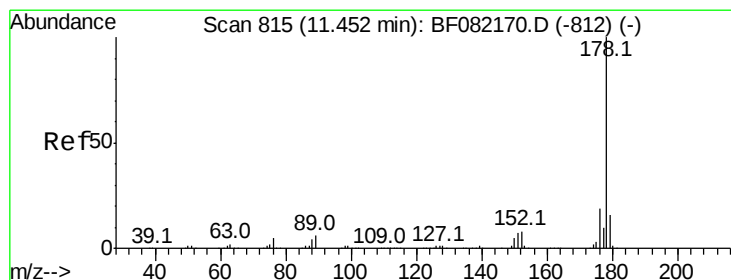
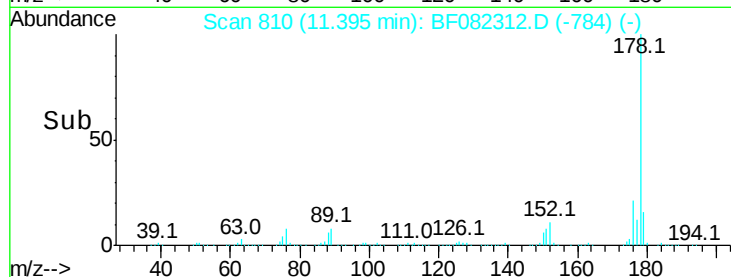
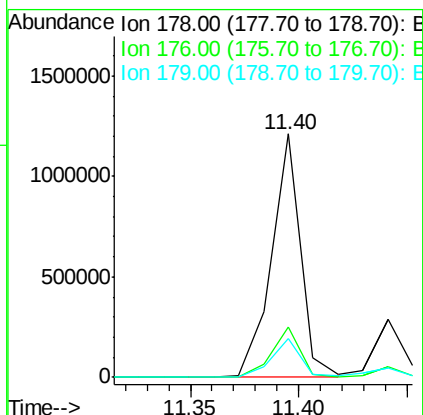
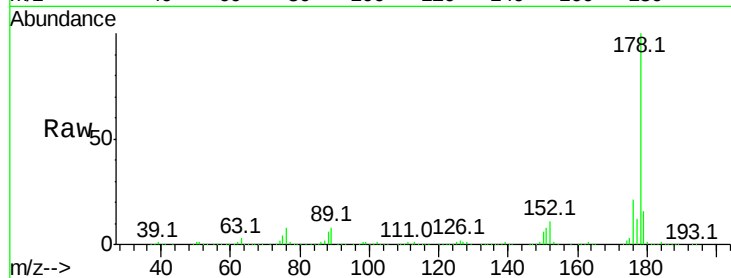
#70
Phenanthrene
Concen: 77.91 ng
RT: 11.40 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion:178 Resp: 1138274
Ion Ratio Lower Upper
178 100
176 20.7 16.0 24.0
179 16.0 12.6 19.0

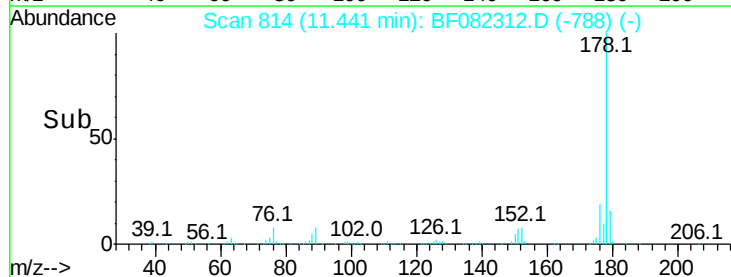
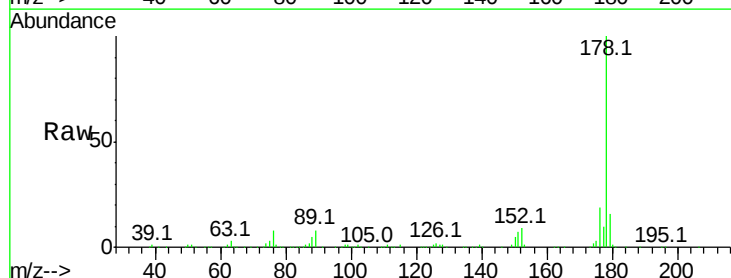
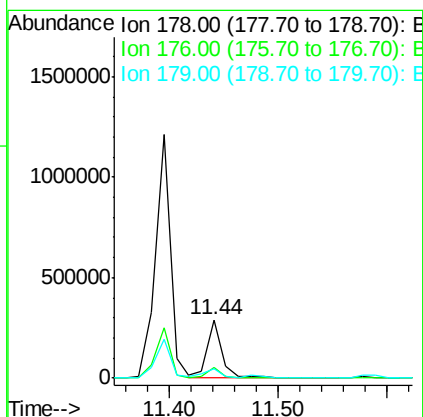
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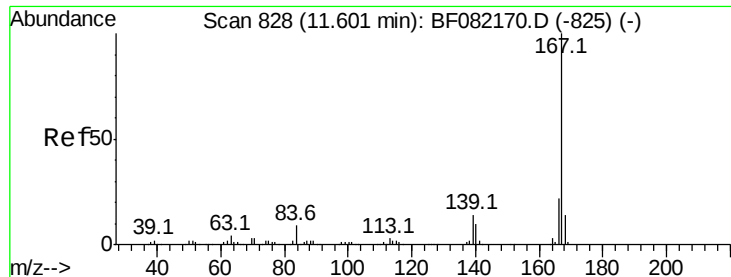
MMdadoda
10/16/2015 5:19:53 PM



#71
Anthracene
Concen: 18.90 ng
RT: 11.44 min Scan# 814
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion:178 Resp: 284594
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 16.0 12.5 18.7





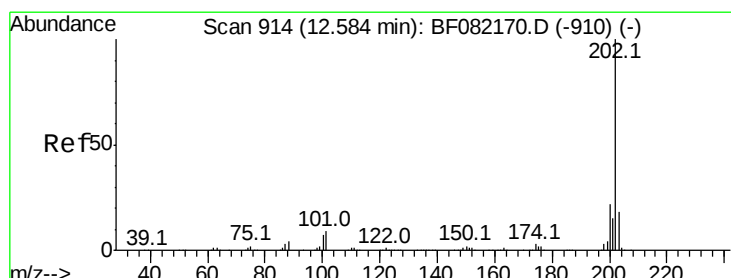
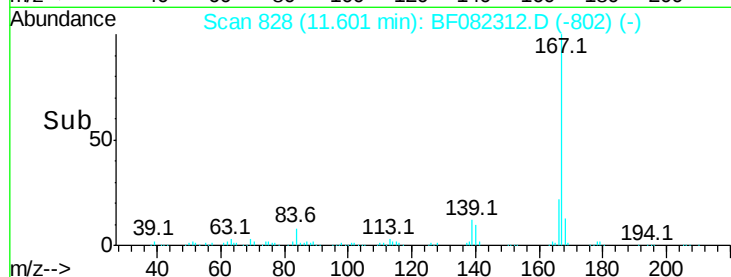
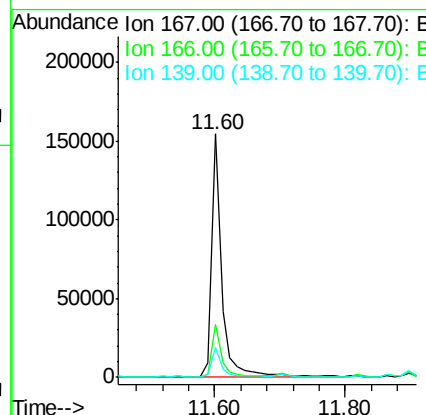
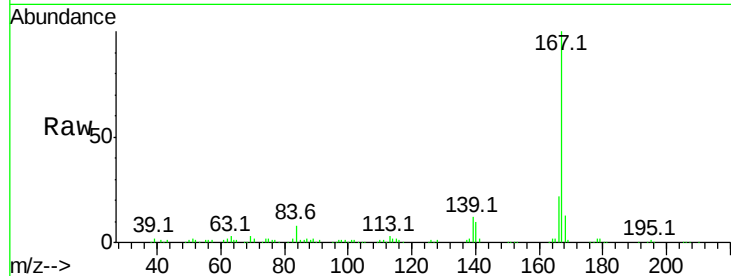
#72
 Carbazole
 Concen: 12.40 ng
 RT: 11.60 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: BF082312.D
 Acq: 15 Oct 2015 16:36

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.3	25.9
139	12.3	11.2	16.8

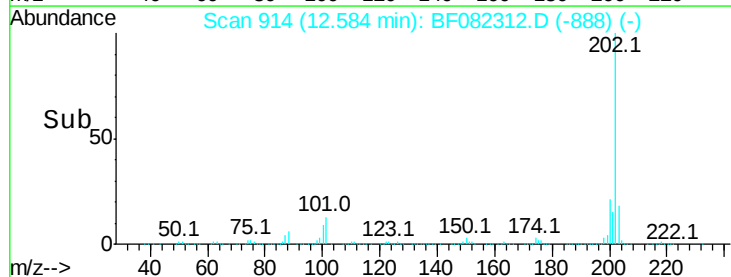
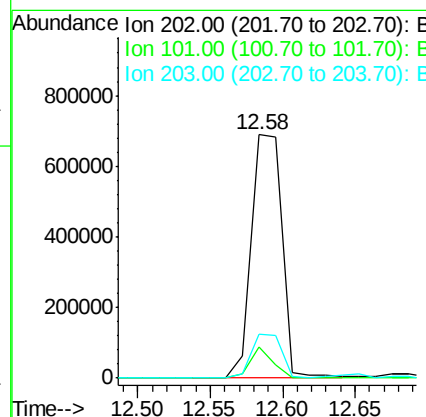
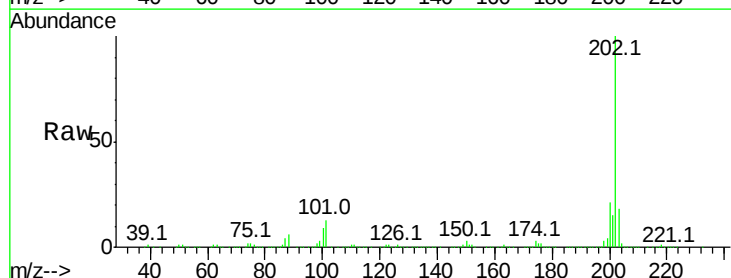
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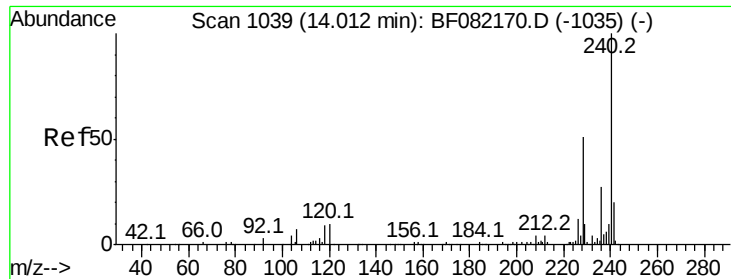
MMdadoda
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#74
 Fluoranthene
 Concen: 64.00 ng
 RT: 12.58 min Scan# 914
 Delta R.T. 0.00 min
 Lab File: BF082312.D
 Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	29.3
203	18.2	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

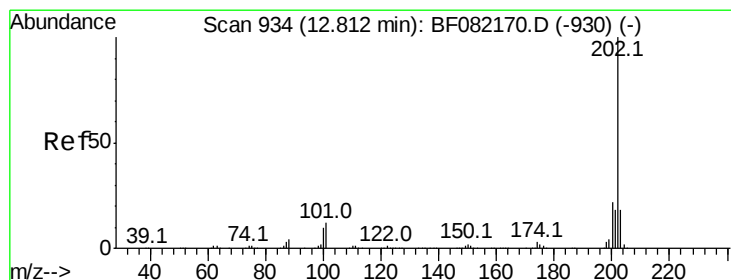
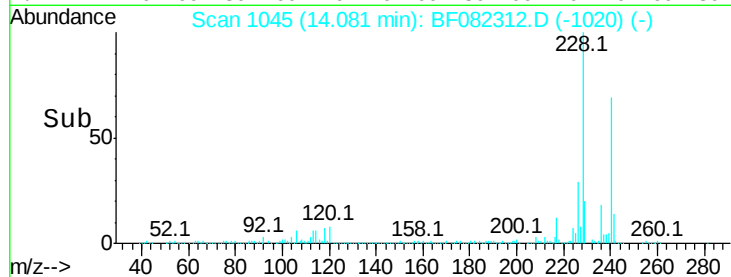
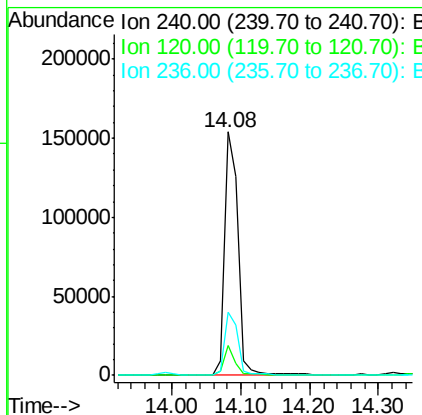
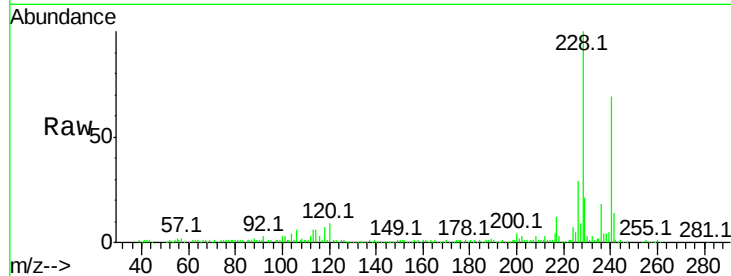
ClientSampleId :

KW-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.1	12.1#
236	25.8	21.3	31.9

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#77

Pyrene

Concen: 62.28 ng

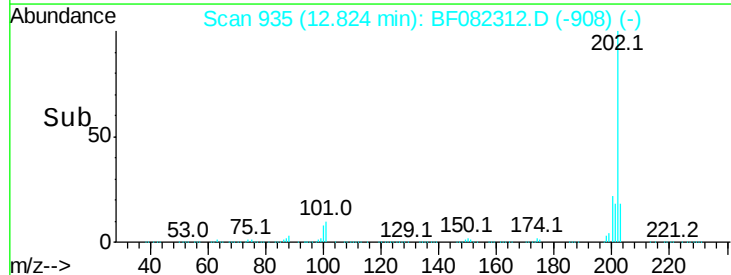
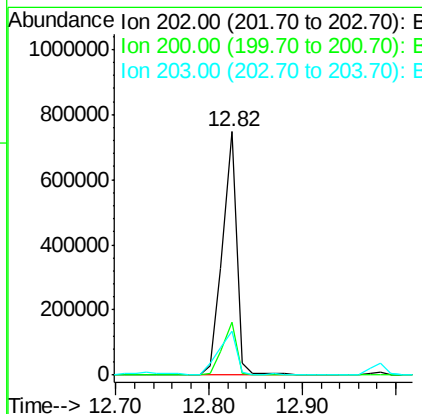
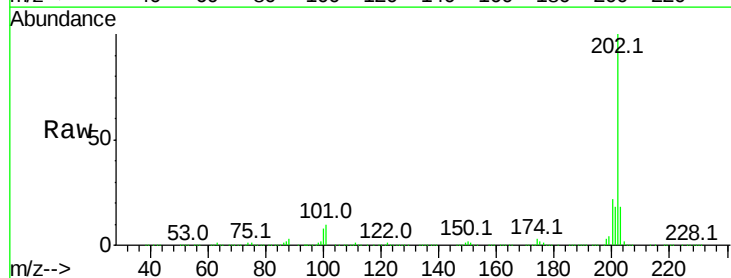
RT: 12.82 min Scan# 935

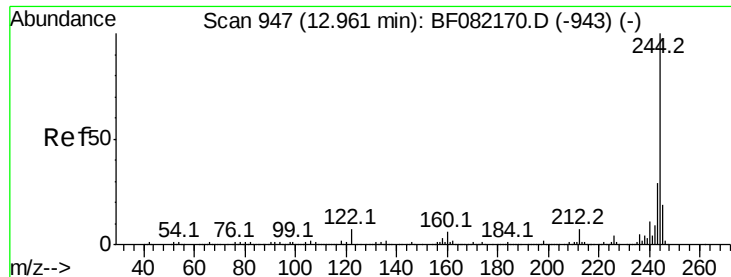
Delta R.T. 0.01 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.9	26.9
203	18.0	14.5	21.7





#78

Terphenyl-d14

Concen: 70.08 ng

RT: 12.96 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

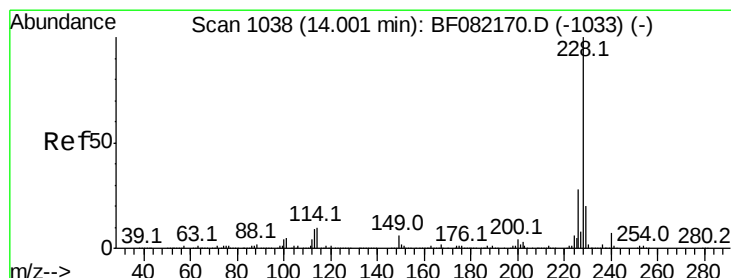
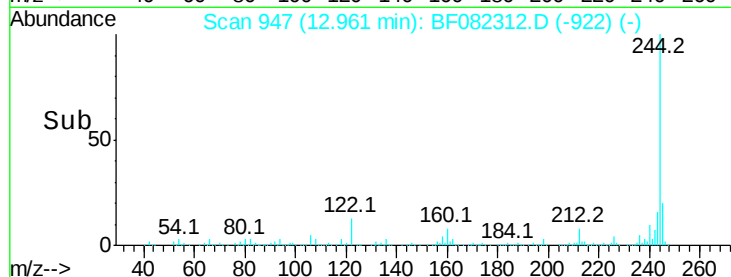
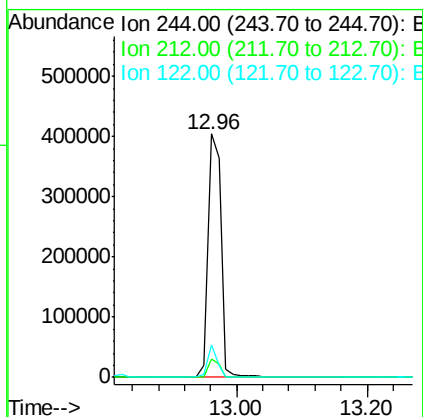
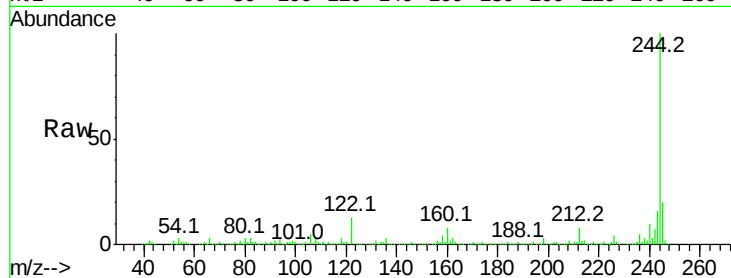
ClientSampled :

KW-3

Tot Ion:	244	Resp:	566097
Ion Ratio	Lower	Upper	
244	100		
212	7.6	5.8	8.6
122	13.2	5.9	8.9#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 37.93 ng

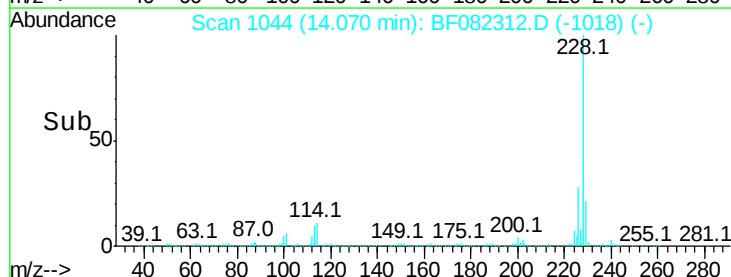
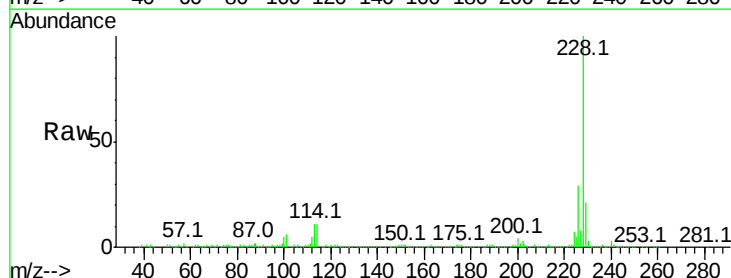
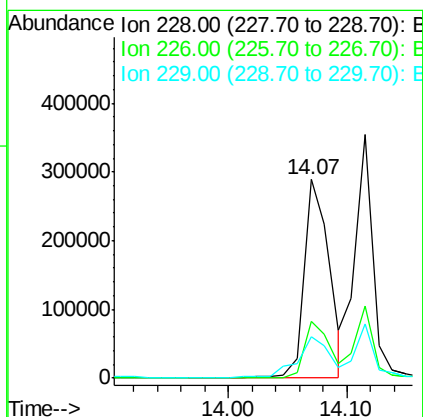
RT: 14.07 min Scan# 1044

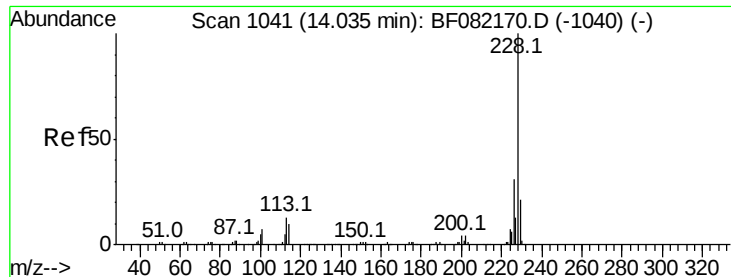
Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion:	228	Resp:	422398
Ion Ratio	Lower	Upper	
228	100		
226	28.5	22.3	33.5
229	20.9	16.2	24.2





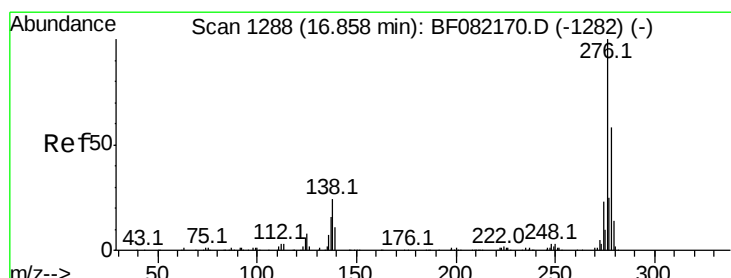
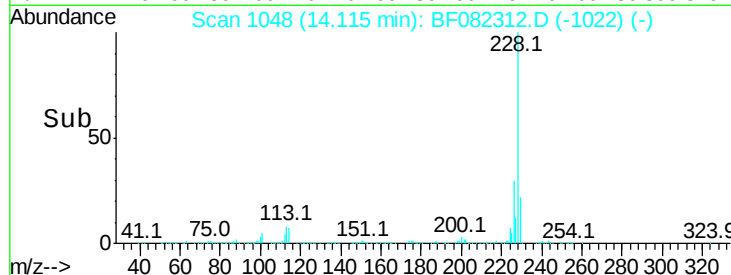
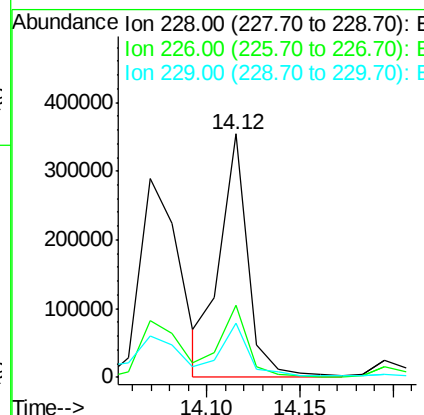
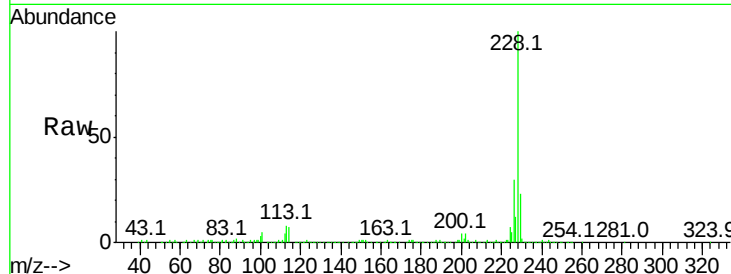
#82
Chrysene
Concen: 31.22 ng
RT: 14.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion:	228	Resp:	366324
Ion Ratio	Lower	Upper	
228	100		
226	29.8	24.4	36.6
229	22.5	16.3	24.5

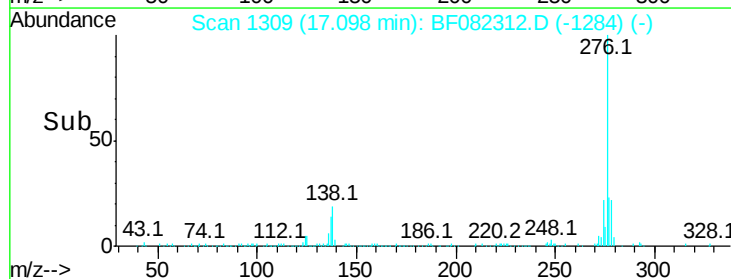
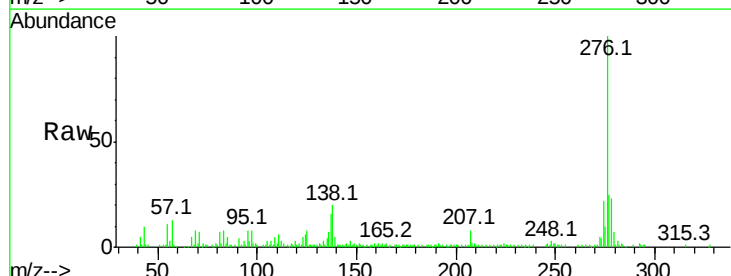
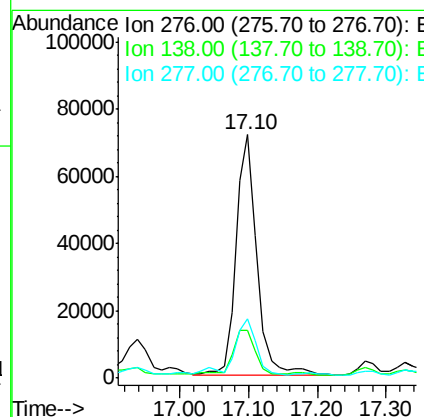
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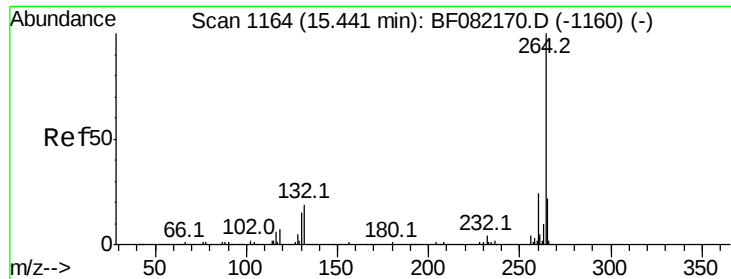
MMdadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 16.45 ng
RT: 17.10 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion:	276	Resp:	153467
Ion Ratio	Lower	Upper	
276	100		
138	20.2	19.7	29.5
277	26.4	20.1	30.1





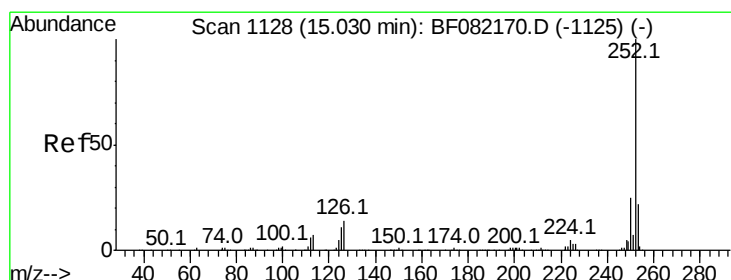
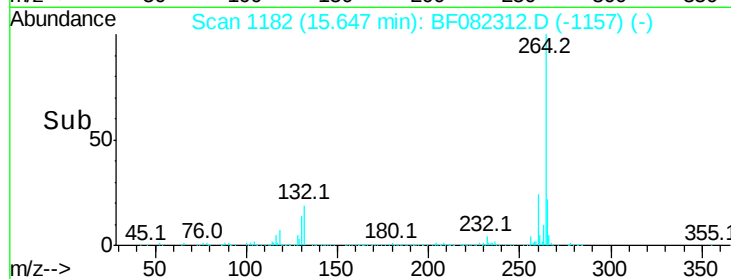
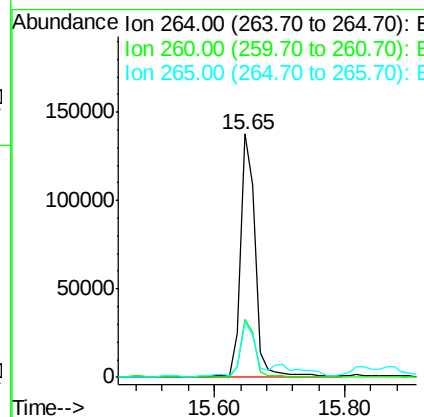
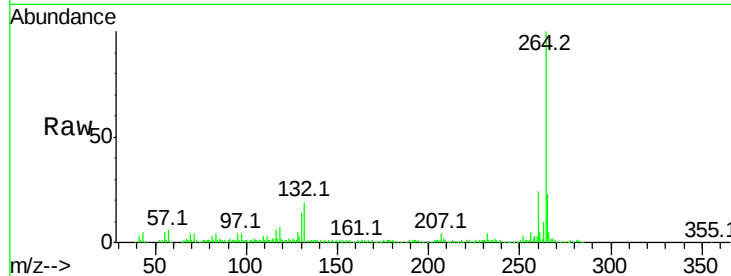
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.65 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.6
265	22.7	17.3	25.9

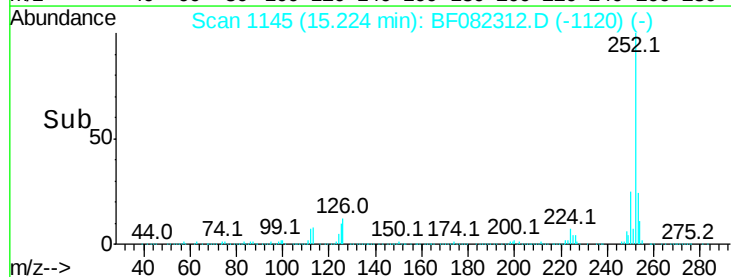
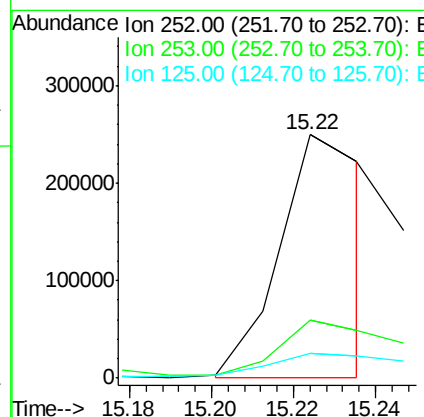
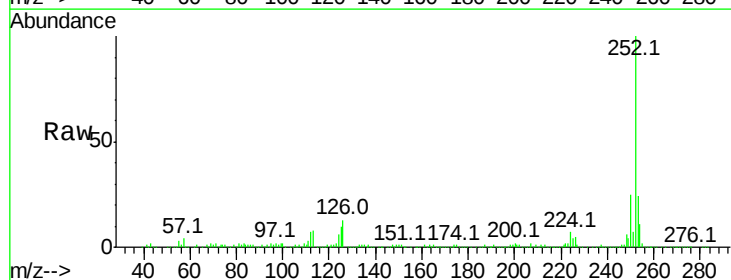
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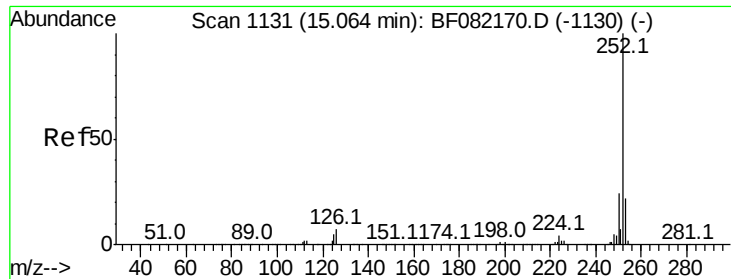
MMdadoda
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#87
Benzo(b)fluoranthene
Concen: 28.95 ng m
RT: 15.22 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	10.4	8.6	12.8





#88

Benzo(k)fluoranthene

Concen: 17.61 ng

RT: 15.24 min Scan# 1146

Delta R.T. -0.02 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Instrument :

BNA_F

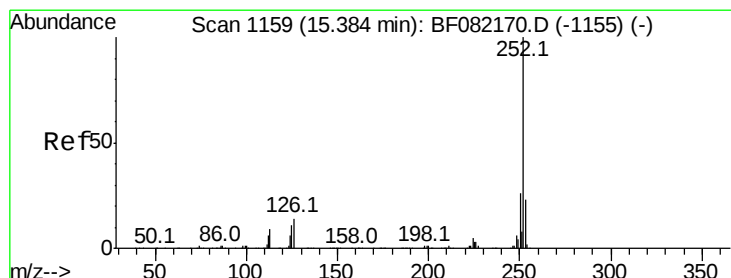
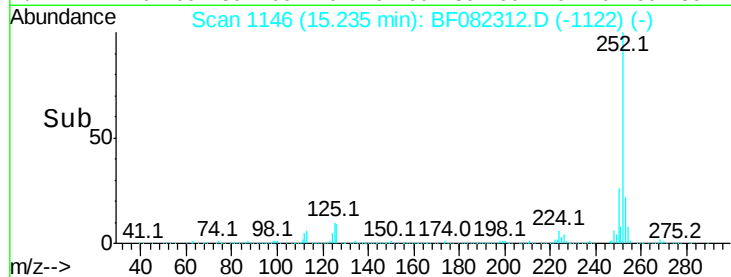
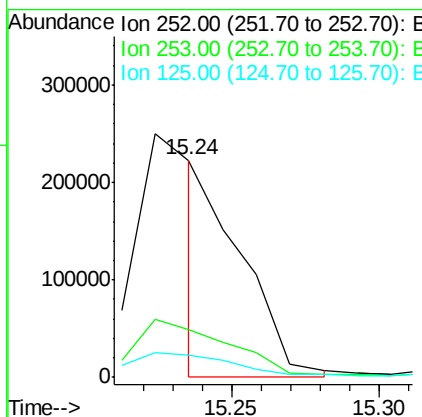
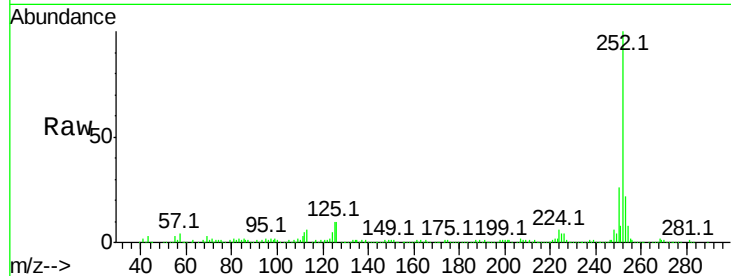
ClientSampleId :

KW-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	10.3	6.7	10.1

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#89

Benzo(a)pyrene

Concen: 25.23 ng

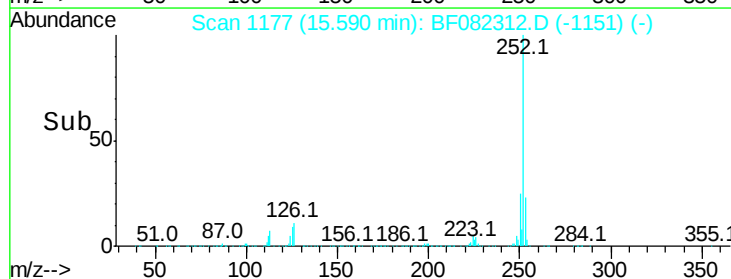
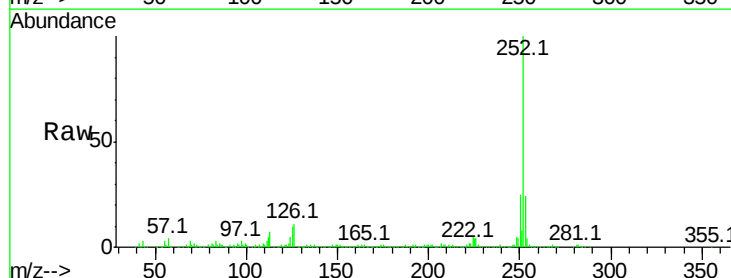
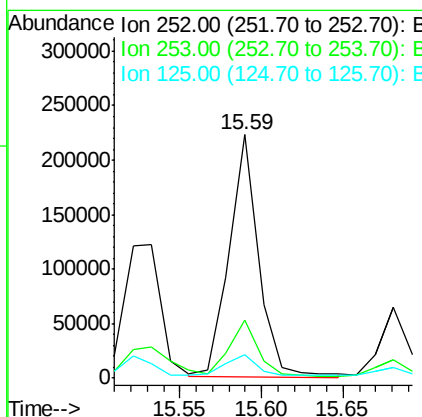
RT: 15.59 min Scan# 1177

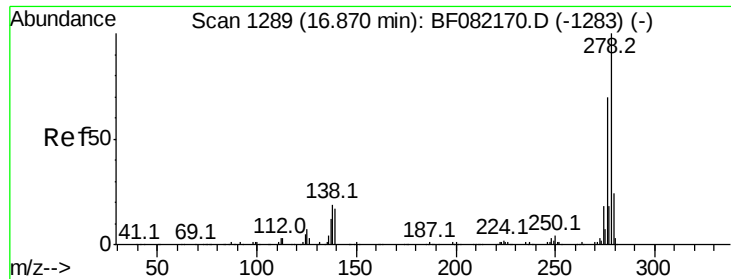
Delta R.T. 0.00 min

Lab File: BF082312.D

Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	9.7	8.9	13.3





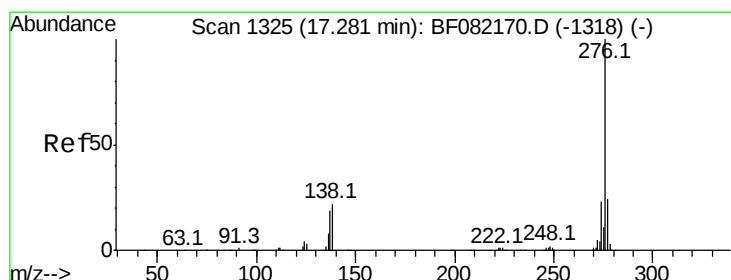
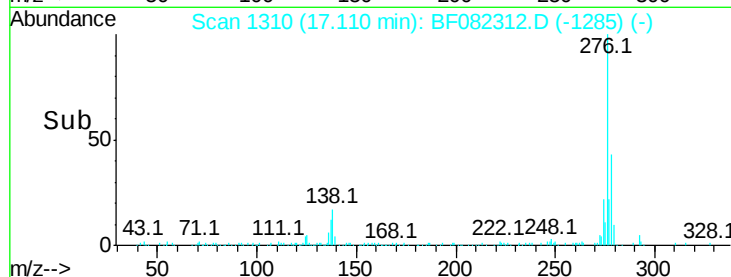
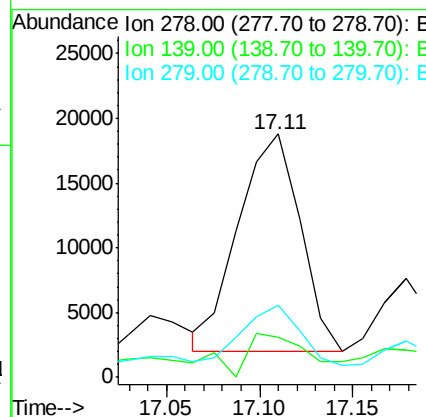
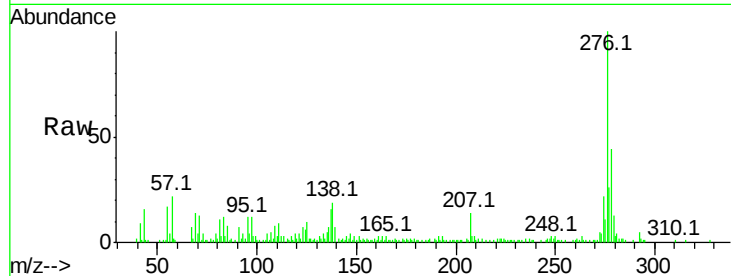
#90
Dibenzo(a,h)anthracene
Concen: 4.27 ng
RT: 17.11 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.5	13.3	19.9
279	29.5	18.9	28.3

Manual Integrations
APPROVED

MMdadoda
10/16/2015 5:19:53 PM



#91
Benzo(g,h,i)perylene
Concen: 14.26 ng
RT: 17.53 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BF082312.D
Acq: 15 Oct 2015 16:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.8	28.2
138	20.2	17.4	26.2

