

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
 Data File : BF083909.D
 Acq On : 18 Dec 2015 10:51
 Operator : UM/SJ
 Sample : G4680-02DL 5X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 K212-(8-10)DL

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:22:11 PM

Quant Time: Dec 18 13:45:49 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 01:01:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	46155	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	188271	20.00	ng	0.01
38) Acenaphthene-d10	9.92	164	82183	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	111093	20.00	ng	0.01
75) Chrysene-d12	14.05	240	94512	20.00	ng	0.02
86) Perylene-d12	15.49	264	71686	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	71450	24.23	ng	0.01
7) Phenol-d6	6.52	99	87928	24.36	ng	0.01
23) Nitrobenzene-d5	7.44	82	53567	16.24	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	13852	15.30	ng	0.01
44) 2-Fluorobiphenyl	9.24	172	112667	16.56	ng	0.00
78) Terphenyl-d14	12.99	244	74011	13.00	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.19	128	71593	5.62	ng	# 84
37) 2-Methylnaphthalene	8.89	142	105180	16.07	ng	# 95
48) Acenaphthylene	9.78	152	86693	9.05	ng	# 93
49) Dimethylphthalate	9.63	163	19781	2.87	ng	# 11
51) Acenaphthene	9.95	154	14936	2.54	ng	# 91
70) Phenanthrene	11.44	178	209957	31.28	ng	99
71) Anthracene	11.48	178	63910	9.85	ng	98
74) Fluoranthene	12.62	202	156305	23.34	ng	97
77) Pyrene	12.85	202	260286	43.41	ng	99
80) Benzo(a)anthracene	14.04	228	149539	25.73	ng	93
82) Chrysene	14.08	228	154575	27.54	ng	97
85) Indeno(1,2,3-cd)pyrene	16.93	276	12322	2.94	ng	95
87) Benzo(b)fluoranthene	15.08	252	52934m	10.13	ng	
88) Benzo(k)fluoranthene	15.09	252	15573m	3.61	ng	
89) Benzo(a)pyrene	15.44	252	36466	8.45	ng	# 87
91) Benzo(g,h,i)perylene	17.37	276	14932	4.54	ng	# 83

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

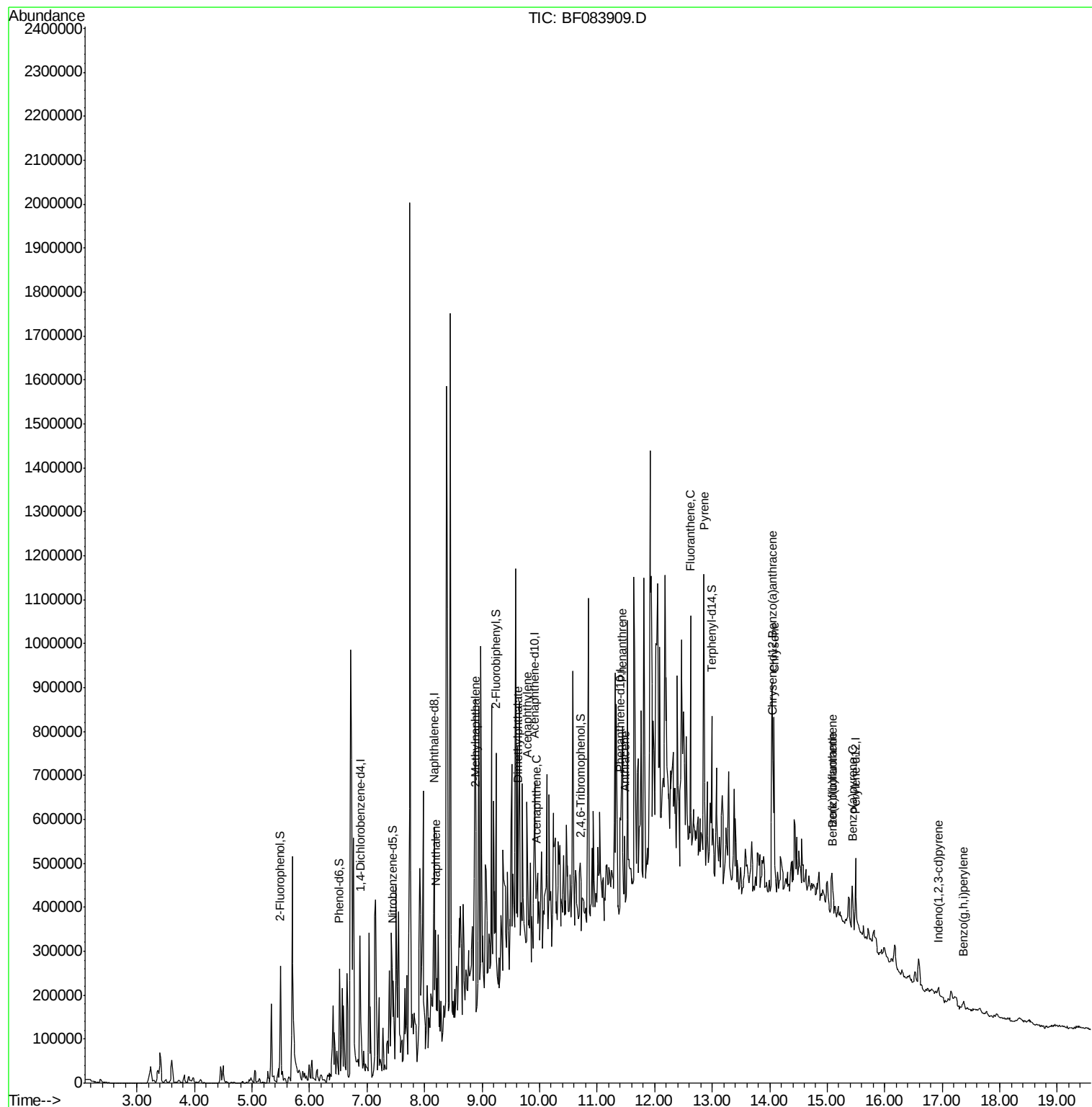
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
Data File : BF083909.D
Acq On : 18 Dec 2015 10:51
Operator : UM/SJ
Sample : G4680-02DL 5X
Misc :
ALS Vial : 34 Sample Multiplier: 1

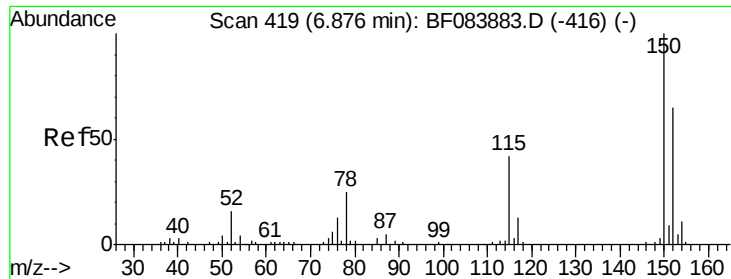
Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM

Quant Time: Dec 18 13:45:49 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 01:01:02 2015
Response via : Initial Calibration





#1

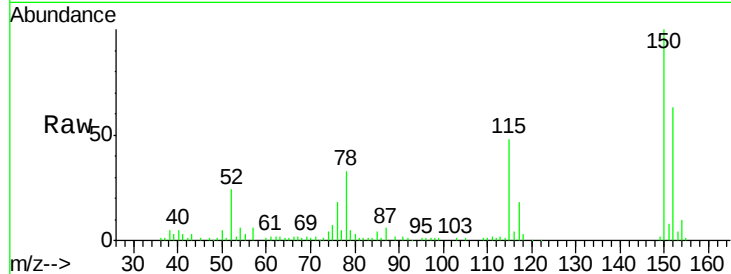
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 419
Delta R.T. -0.00 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

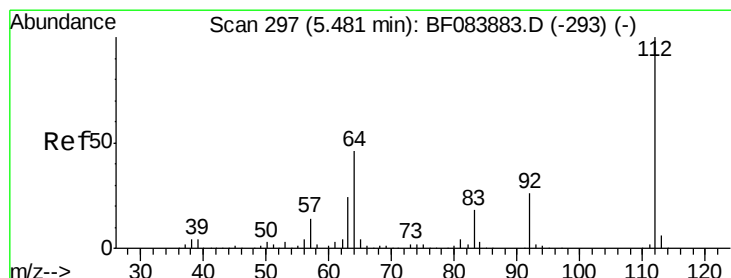
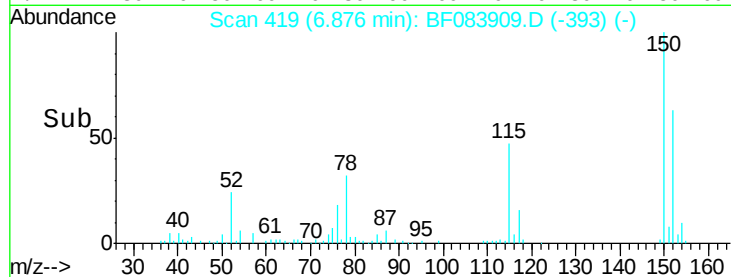
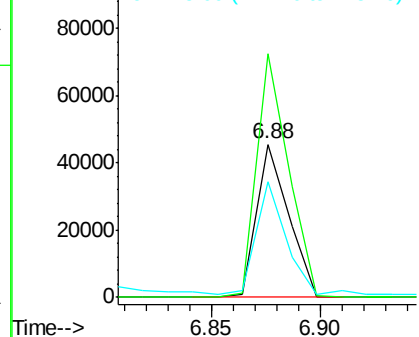
Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.8	123.0	184.4
115	75.8	51.4	77.2

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



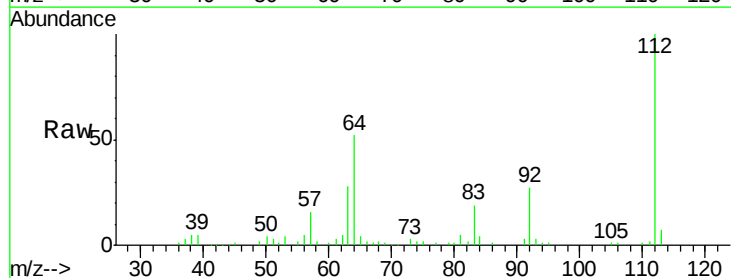
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



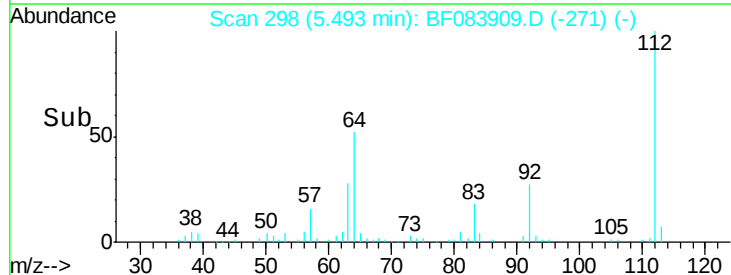
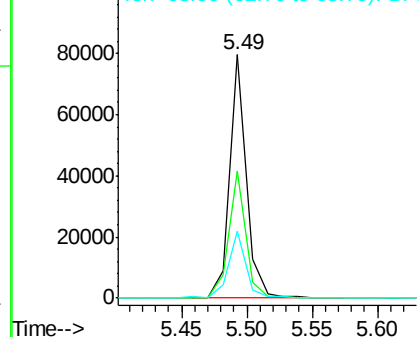
#5

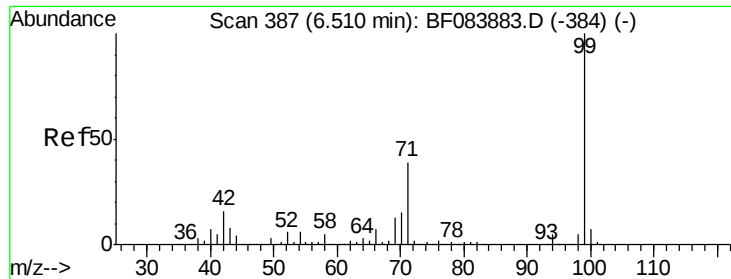
2-Fluorophenol
Concen: 24.23 ng
RT: 5.49 min Scan# 298
Delta R.T. 0.01 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	36.6	55.0
63	27.6	19.4	29.0



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: 24.36 ng

RT: 6.52 min Scan# 388

Delta R.T. 0.01 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

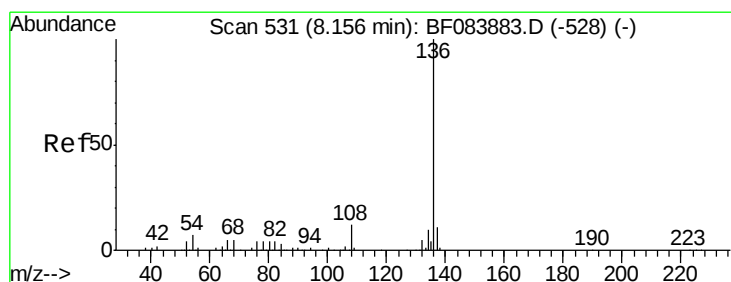
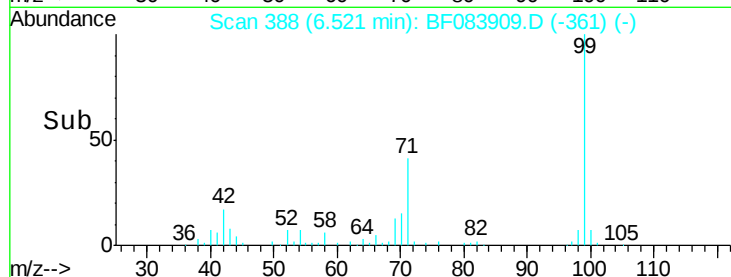
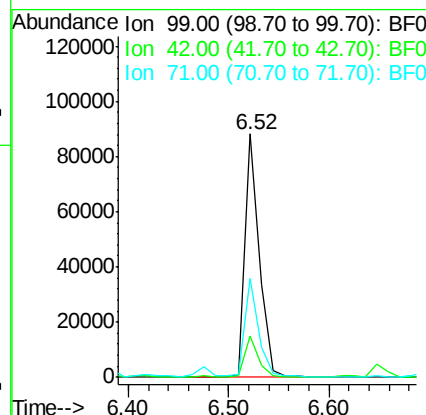
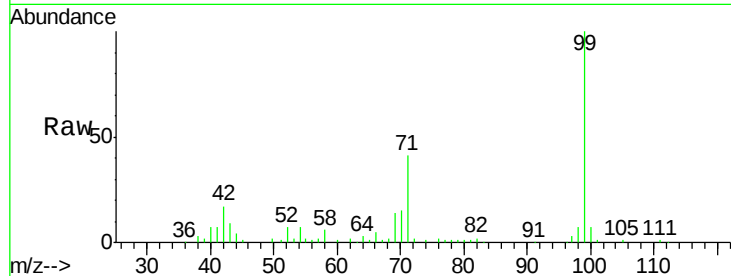
ClientSampleId :

K212-(8-10)DL

Tgt Ion	Ratio	Lower	Upper
99	100		
42	17.0	12.8	19.2
71	40.6	30.9	46.3

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#21

Naphthalene-d8

Concen: 20.00 ng

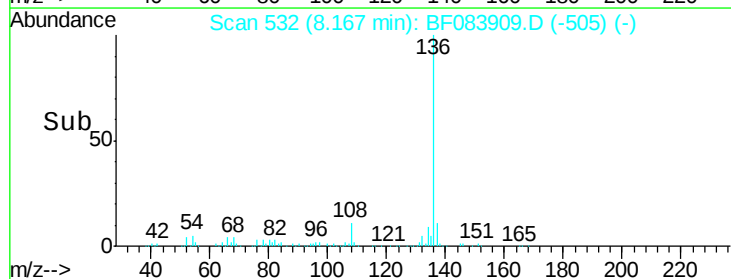
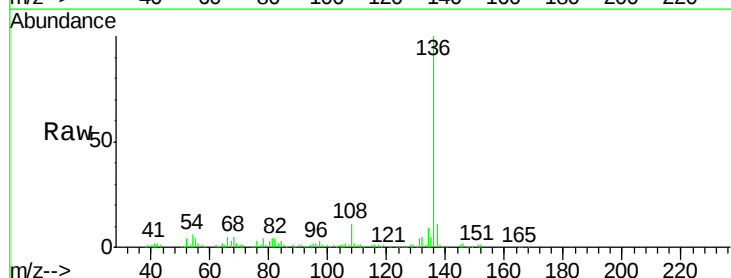
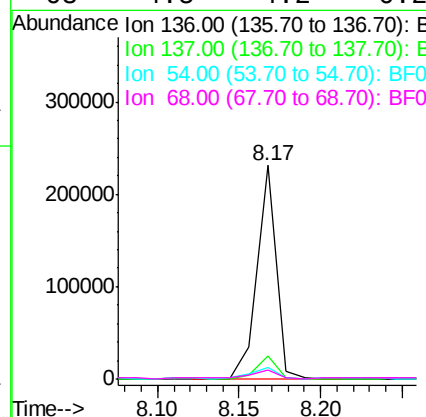
RT: 8.17 min Scan# 532

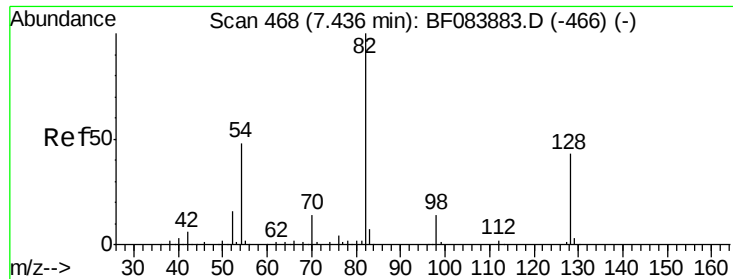
Delta R.T. 0.01 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	5.7	5.8	8.8#
68	4.5	4.2	6.2





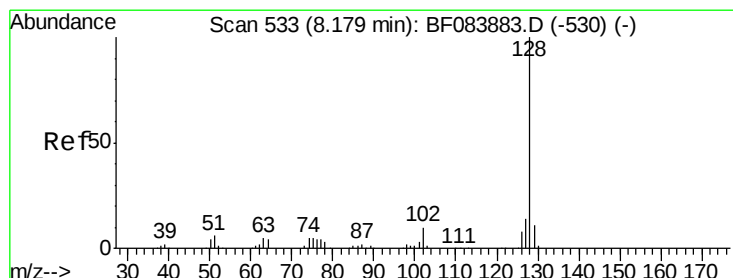
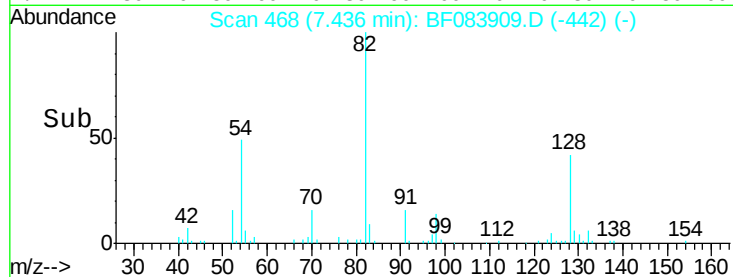
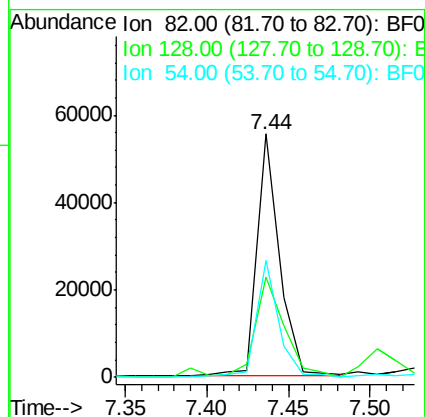
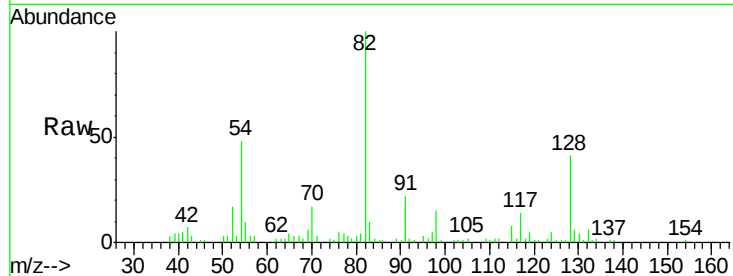
#23
Nitrobenzene-d5
Concen: 16.24 ng
RT: 7.44 min Scan# 468
Delta R.T. -0.00 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.6	51.8
54	48.2	38.4	57.6

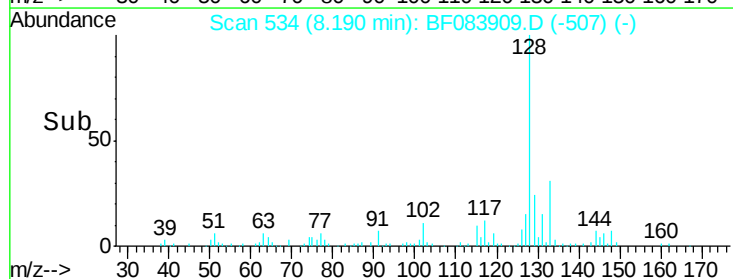
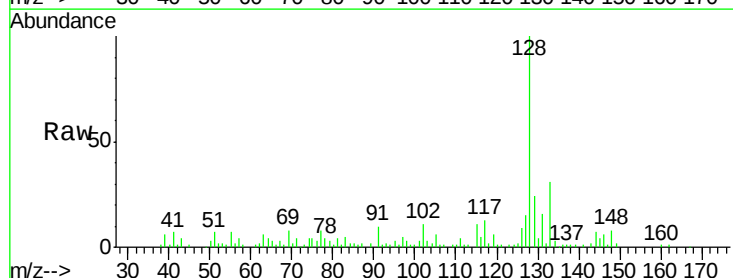
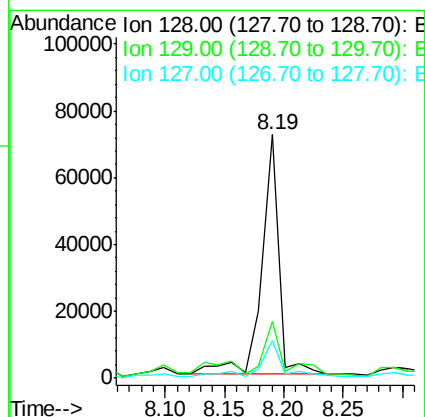
Manual Integrations
APPROVED

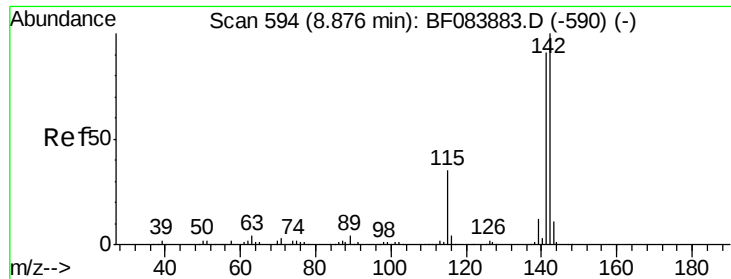
MMdadoda
12/18/2015 6:22:11 PM



#31
Naphthalene
Concen: 5.62 ng
RT: 8.19 min Scan# 534
Delta R.T. 0.01 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	23.5	9.1	13.7#
127	15.4	11.1	16.7





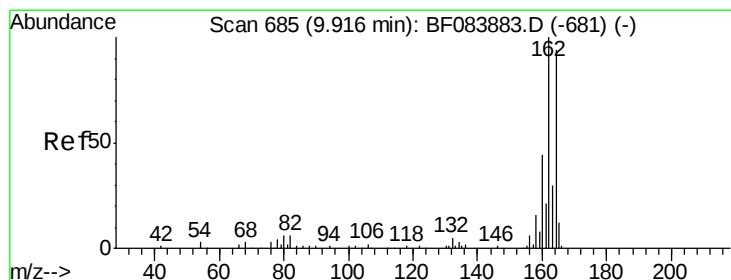
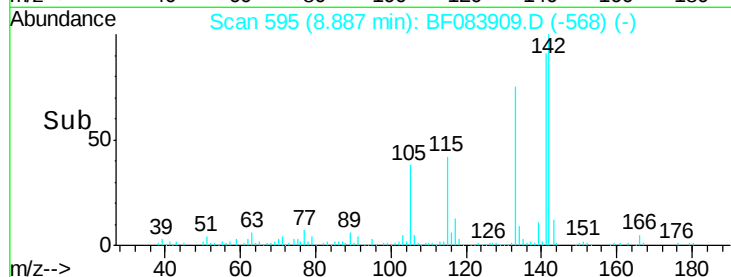
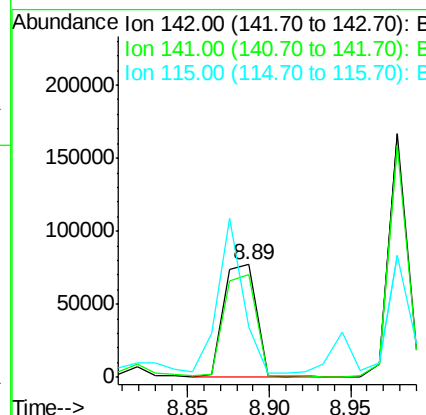
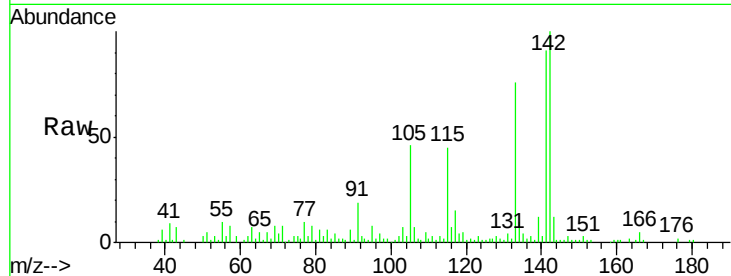
#37
2-Methylnaphthalene
Concen: 16.07 ng
RT: 8.89 min Scan# 595
Delta R.T. 0.01 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	105180		
141	90.9	72.4	108.6	
115	44.5	27.9	41.9	

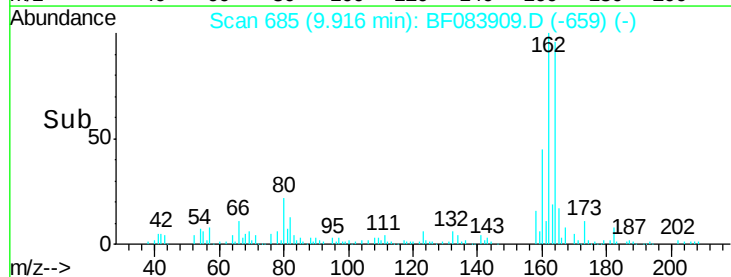
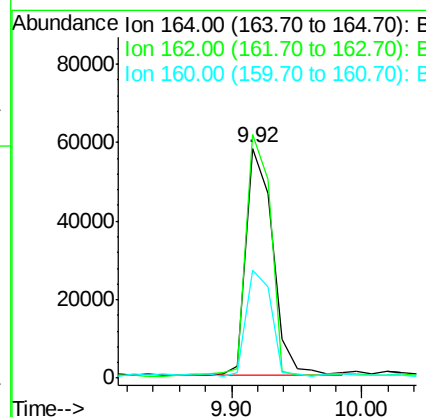
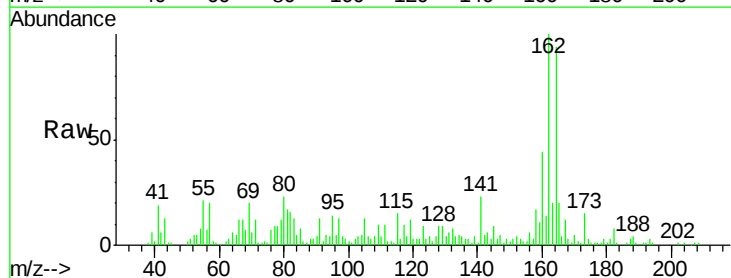
Manual Integrations
APPROVED

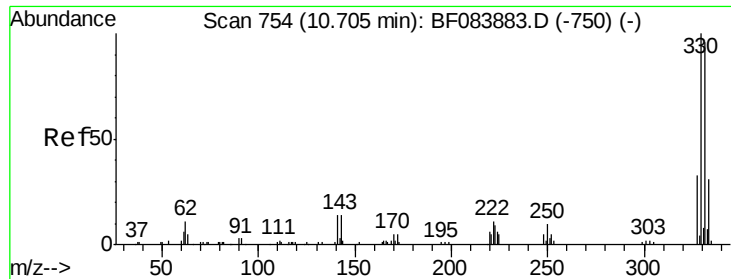
MMdadoda
12/18/2015 6:22:11 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 685
Delta R.T. -0.00 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

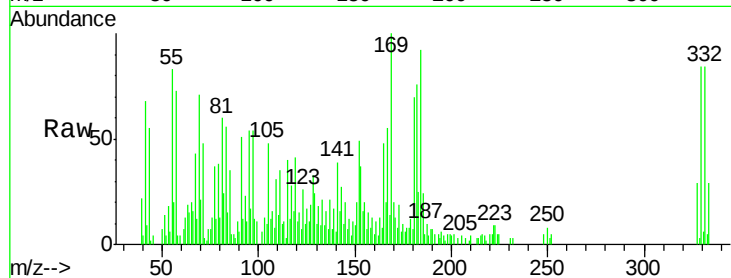
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	82183		
162	106.0	85.1	127.7	
160	46.8	37.5	56.3	





#41
 2,4,6-Tribromophenol
 Concen: 15.30 ng
 RT: 10.72 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: BF083909.D
 Acq: 18 Dec 2015 10:51

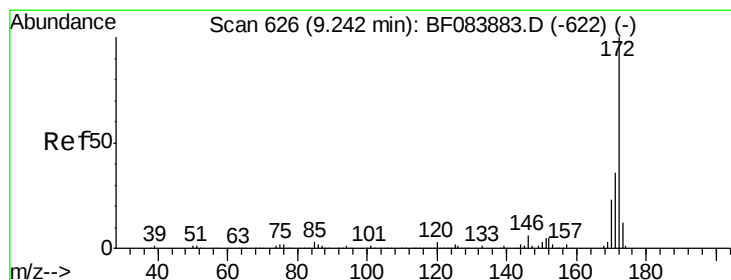
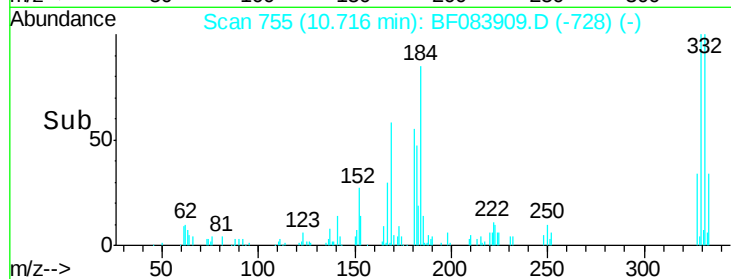
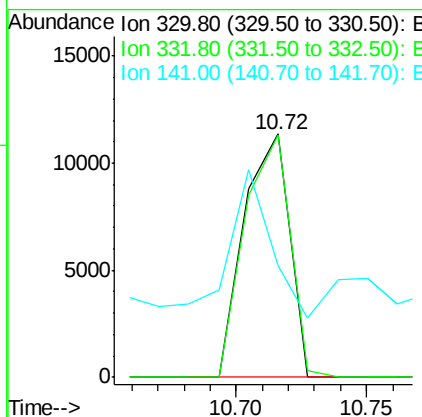
Instrument :
 BNA_F
 ClientSampleId :
 K212-(8-10)DL



Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.8	76.6	114.8	
141	56.7	27.8	41.6	

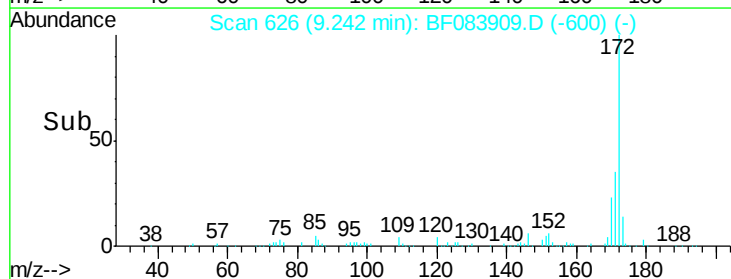
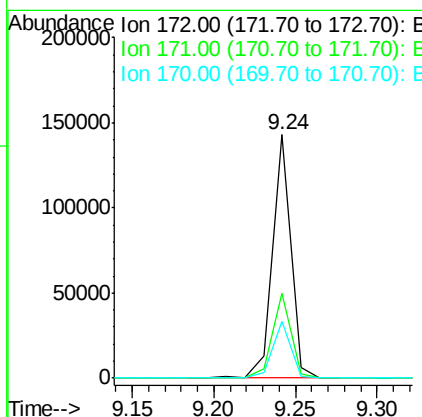
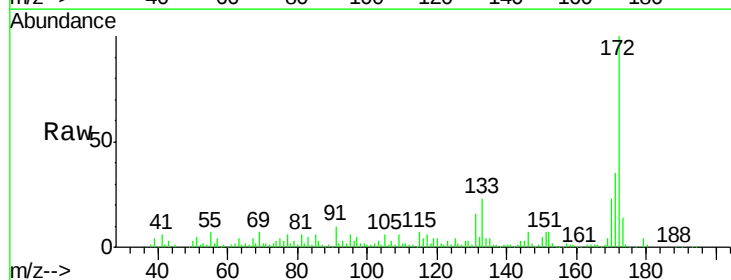
Manual Integrations
 APPROVED

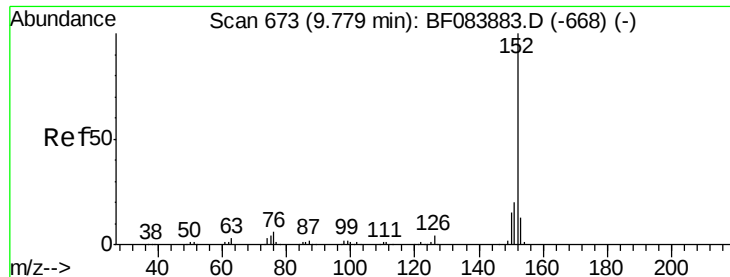
MMdadoda
 12/18/2015 6:22:11 PM



#44
 2-Fluorobiphenyl
 Concen: 16.56 ng
 RT: 9.24 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: BF083909.D
 Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.8	28.9	43.3	
170	23.1	18.6	27.8	





#48

Acenaphthylene

Concen: 9.05 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.00 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

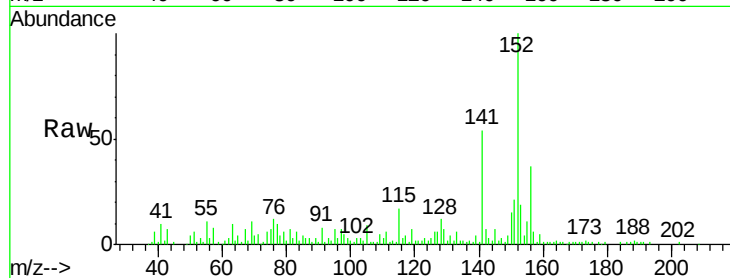
ClientSampleId :

K212-(8-10)DL

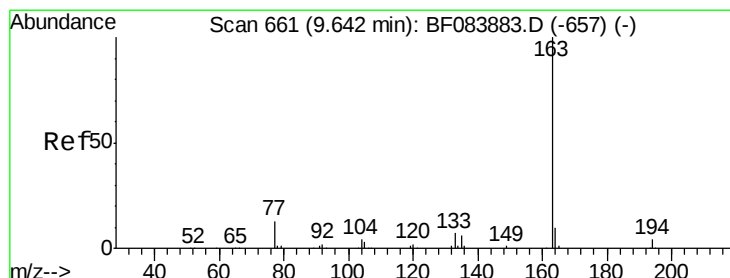
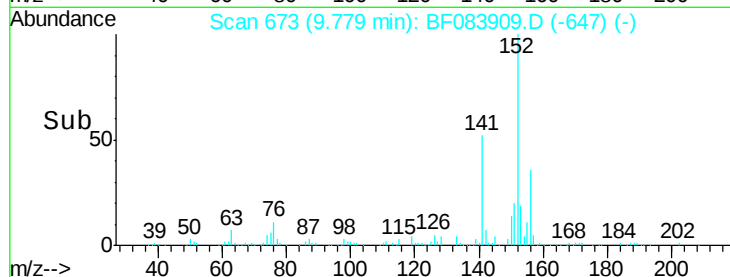
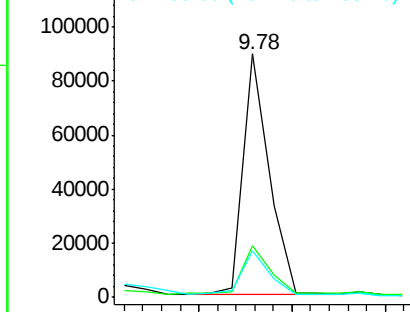
Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.3	24.5
153	19.2	10.4	15.6#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.87 ng

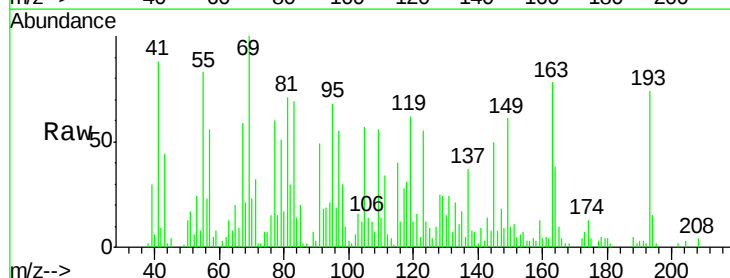
RT: 9.63 min Scan# 660

Delta R.T. -0.01 min

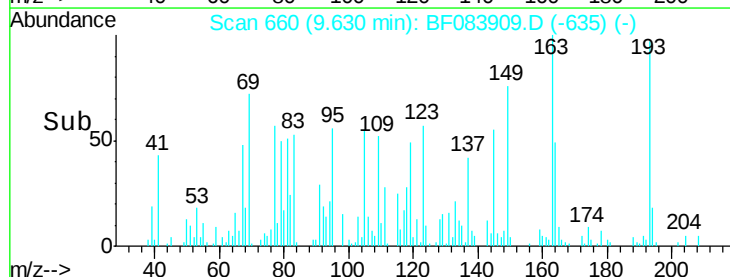
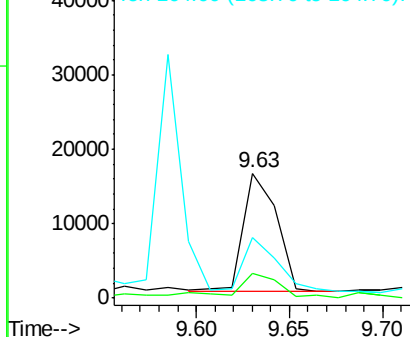
Lab File: BF083909.D

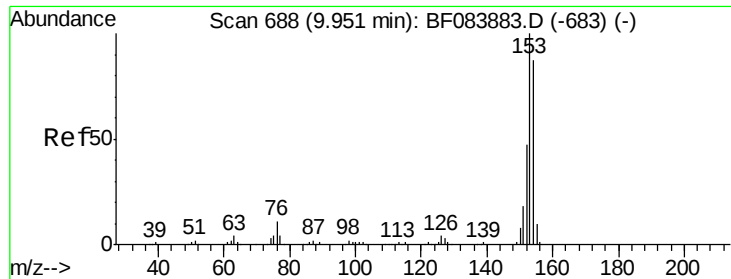
Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	19.4	3.0	4.6#
164	48.5	7.9	11.9#



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





#51

Acenaphthene

Concen: 2.54 ng

RT: 9.95 min Scan# 688

Delta R.T. -0.00 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

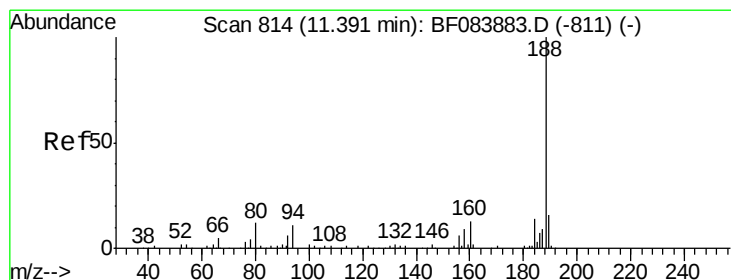
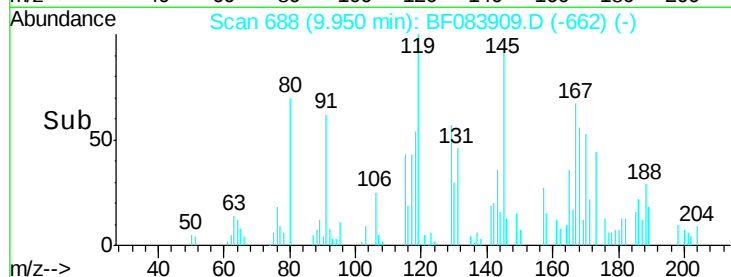
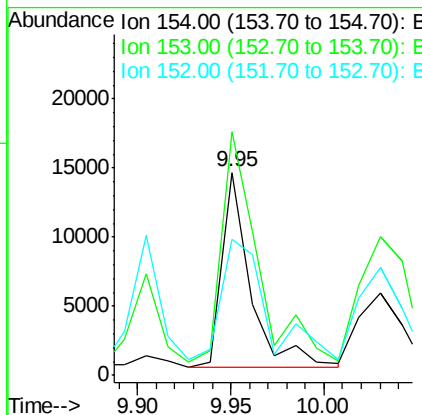
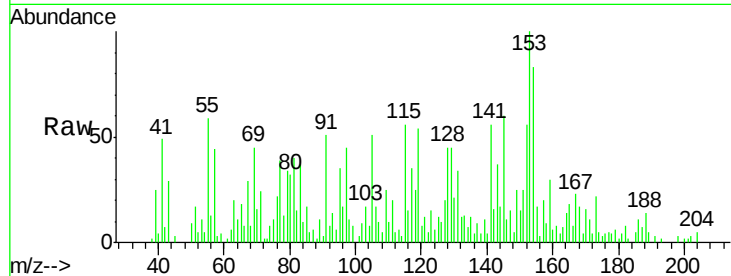
ClientSampleId :

K212-(8-10)DL

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM

Tgt Ion:	154	Resp:	14936
Ion Ratio	Lower	Upper	
154	100		
153	120.0	91.5	137.3
152	66.9	43.0	64.6#



#63

Phenanthrene-d10

Concen: 20.00 ng

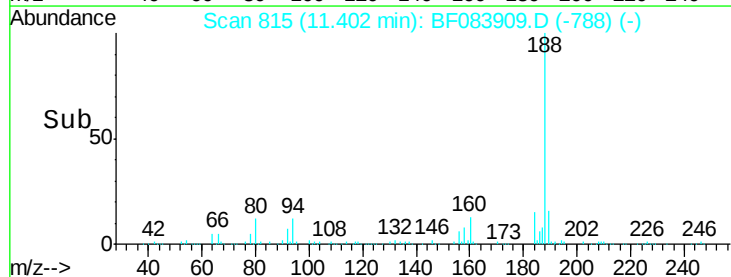
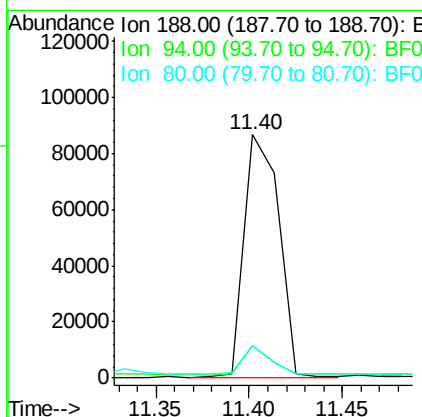
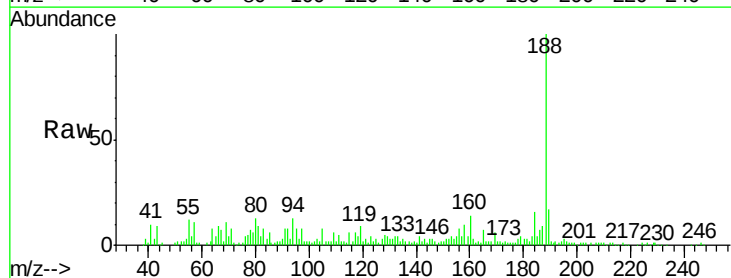
RT: 11.40 min Scan# 815

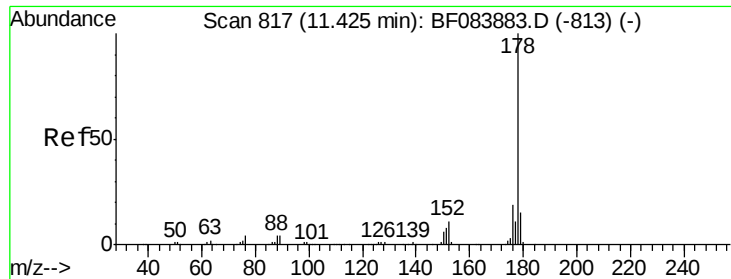
Delta R.T. 0.01 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Tgt Ion:	188	Resp:	111093
Ion Ratio	Lower	Upper	
188	100		
94	13.3	9.0	13.4
80	13.5	9.6	14.4





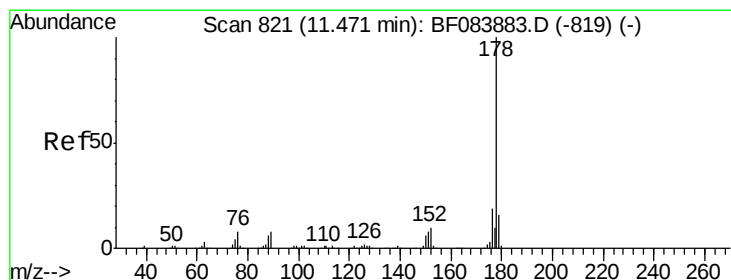
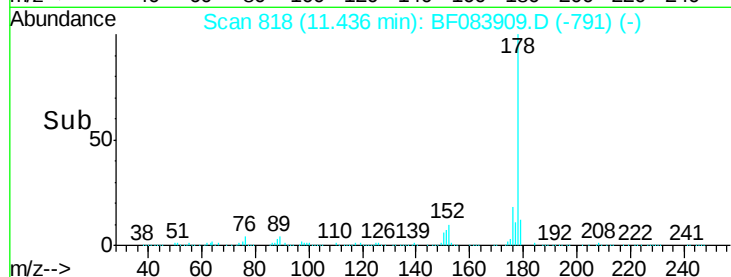
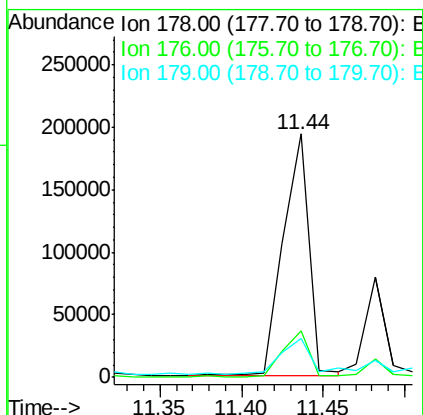
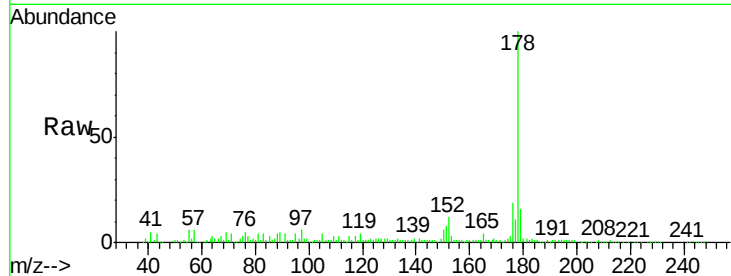
#70
Phenanthrene
Concen: 31.28 ng
RT: 11.44 min Scan# 818
Delta R.T. 0.01 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	16.0	12.0	18.0

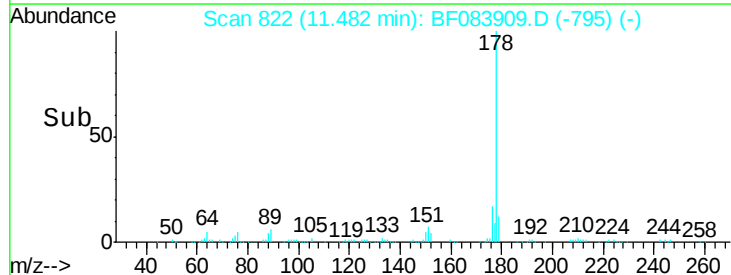
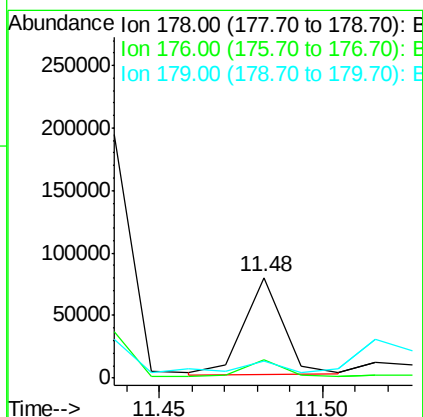
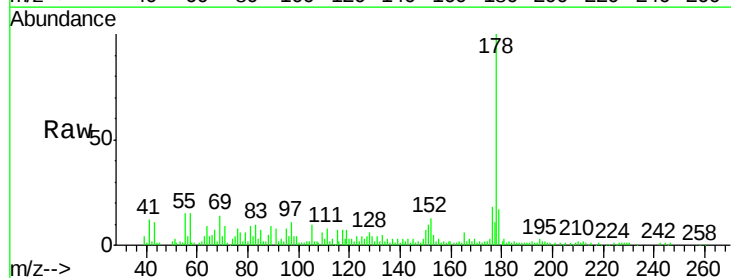
Manual Integrations
APPROVED

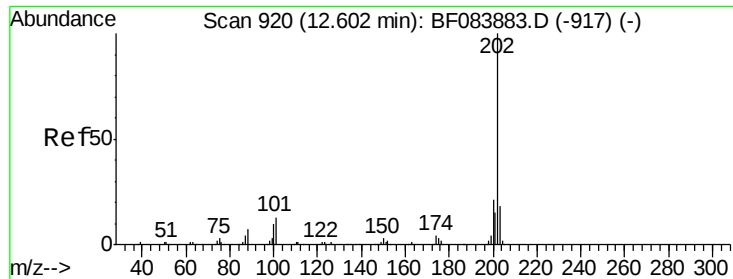
MMdadoda
12/18/2015 6:22:11 PM



#71
Anthracene
Concen: 9.85 ng
RT: 11.48 min Scan# 822
Delta R.T. 0.01 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.0
179	16.8	12.5	18.7





#74

Fluoranthene

Concen: 23.34 ng

RT: 12.62 min Scan# 922

Delta R.T. 0.02 min

Lab File: BF083909.D

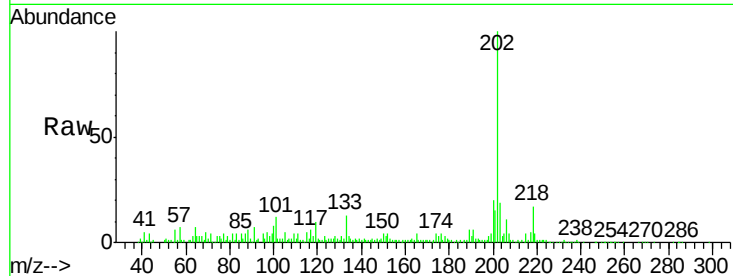
Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

ClientSampleId :

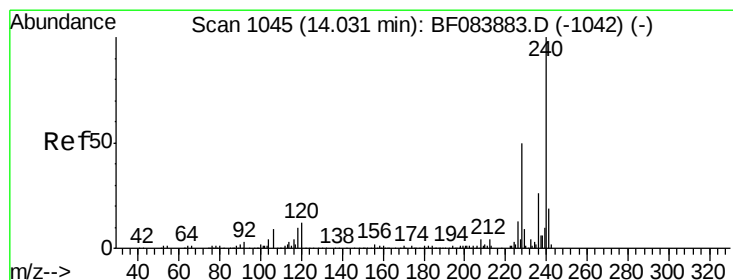
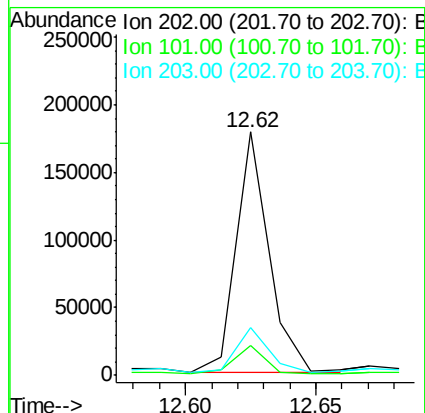
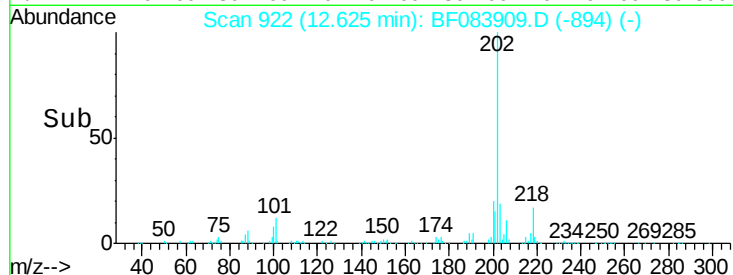
K212-(8-10)DL



Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	12.1	0.0	32.8
203	19.5	0.0	37.9

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#75

Chrysene-d12

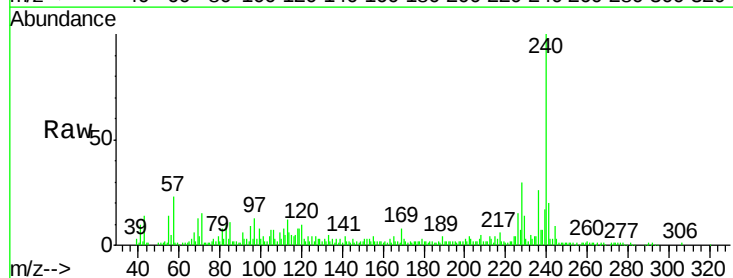
Concen: 20.00 ng

RT: 14.05 min Scan# 1047

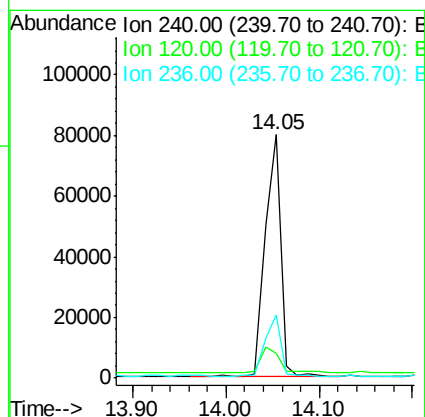
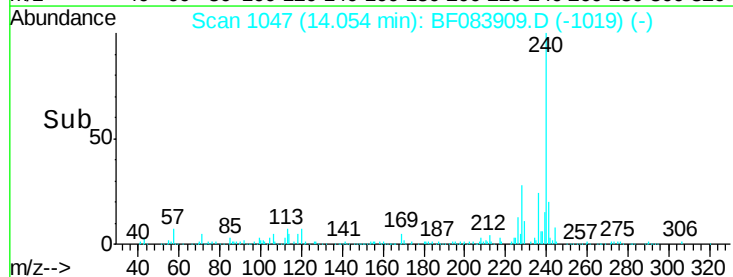
Delta R.T. 0.02 min

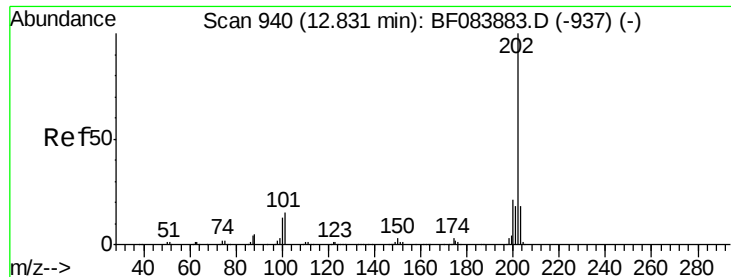
Lab File: BF083909.D

Acq: 18 Dec 2015 10:51



Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.0	9.5	14.3
236	26.2	20.6	31.0





#77

Pyrene

Concen: 43.41 ng

RT: 12.85 min Scan# 942

Delta R.T. 0.02 min

Lab File: BF083909.D

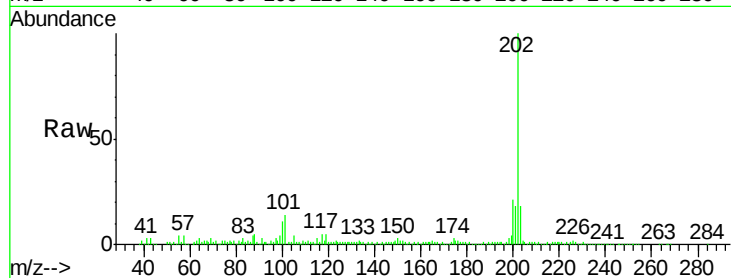
Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

ClientSampleId :

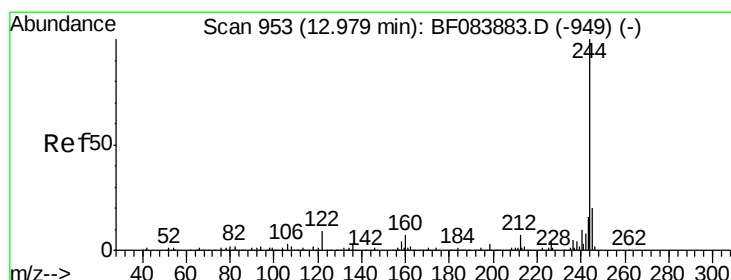
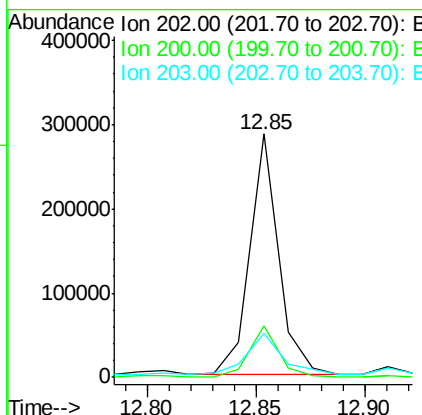
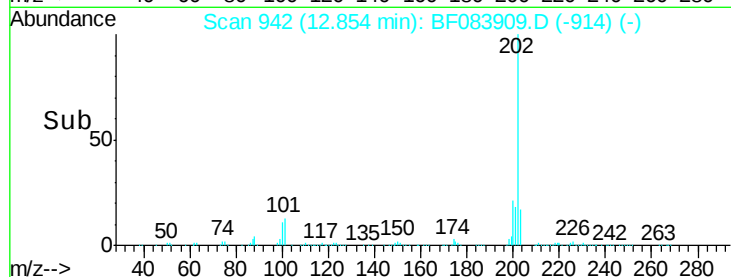
K212-(8-10)DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.1	17.2	25.8	
203	18.2	14.3	21.5	

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#78

Terphenyl-d14

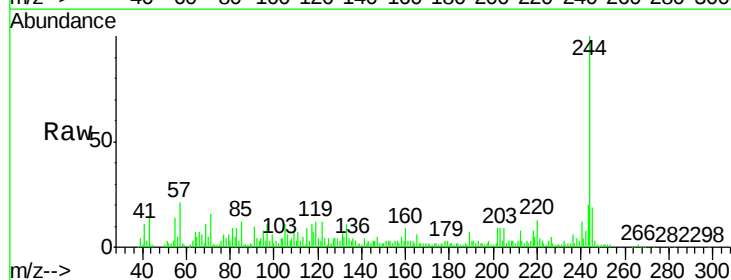
Concen: 13.00 ng

RT: 12.99 min Scan# 954

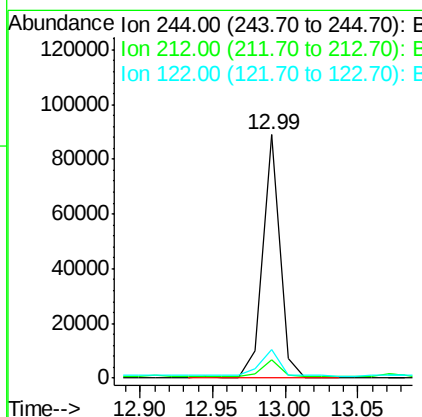
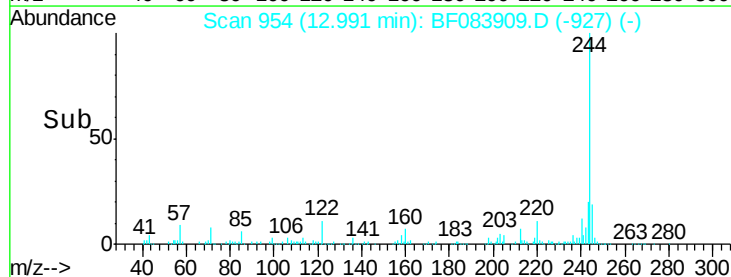
Delta R.T. 0.01 min

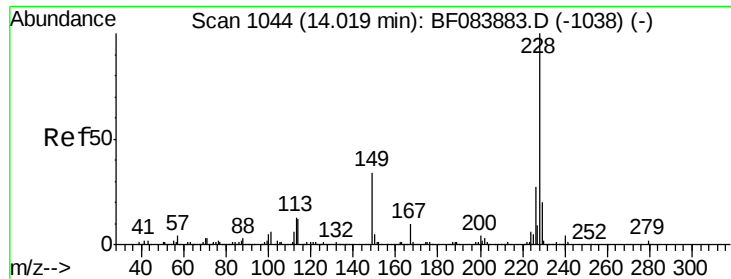
Lab File: BF083909.D

Acq: 18 Dec 2015 10:51



Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.7	5.7	8.5	
122	11.5	7.4	11.0	





#80

Benzo(a)anthracene

Concen: 25.73 ng

RT: 14.04 min Scan# 1046

Delta R.T. 0.02 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

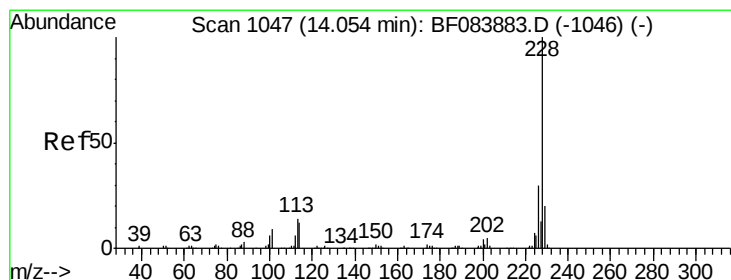
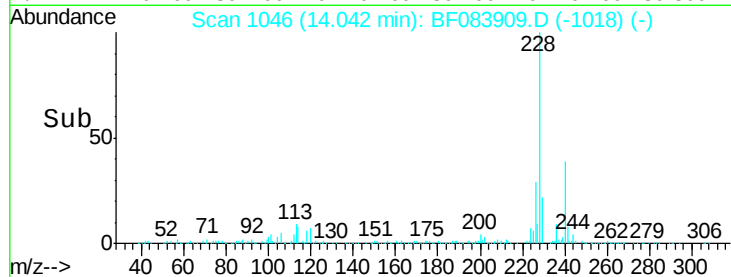
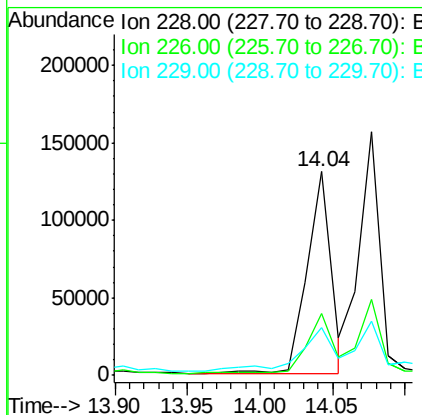
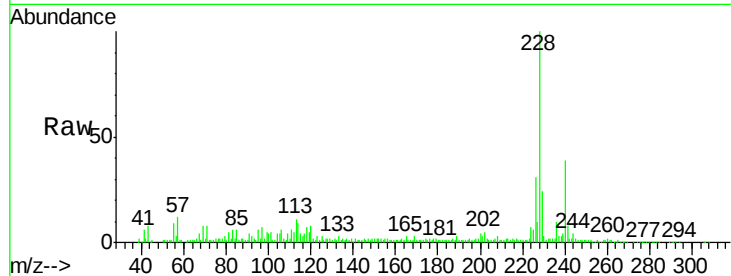
ClientSampleId :

K212-(8-10)DL

Tgt Ion:	228	Resp:	149539
Ion Ratio	Lower	Upper	
228	100		
226	30.6	21.8	32.6
229	23.7	15.8	23.8

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#82

Chrysene

Concen: 27.54 ng

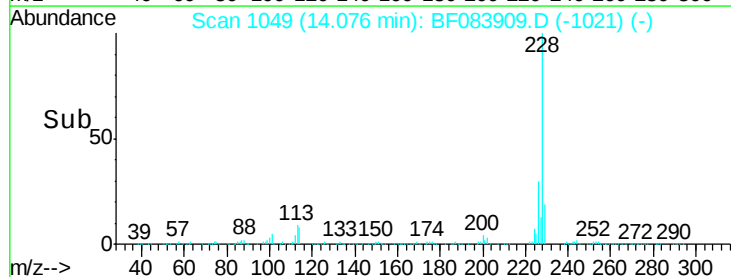
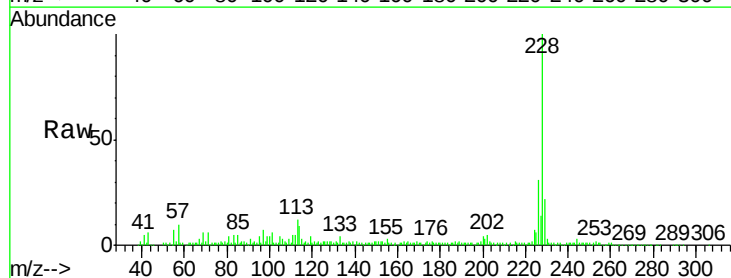
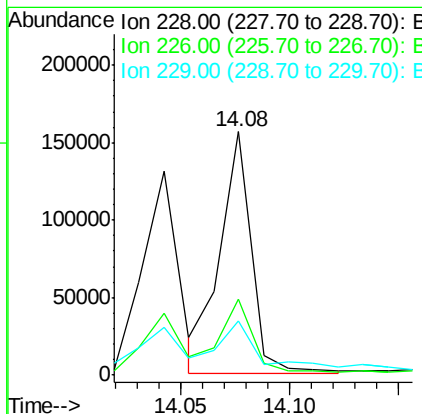
RT: 14.08 min Scan# 1049

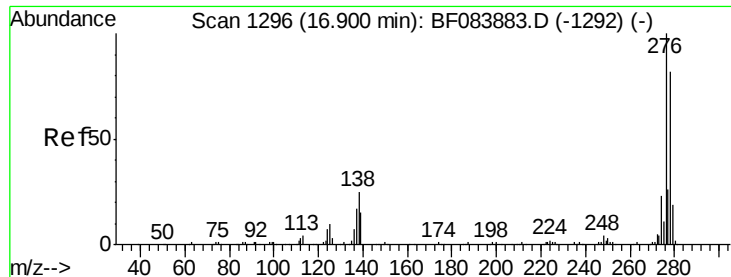
Delta R.T. 0.02 min

Lab File: BF083909.D

Acq: 18 Dec 2015 10:51

Tgt Ion:	228	Resp:	154575
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.3	36.5
229	22.2	16.1	24.1





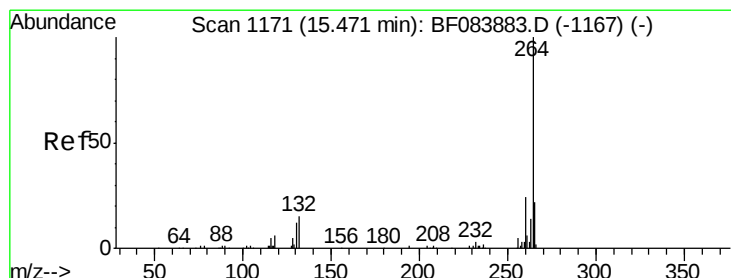
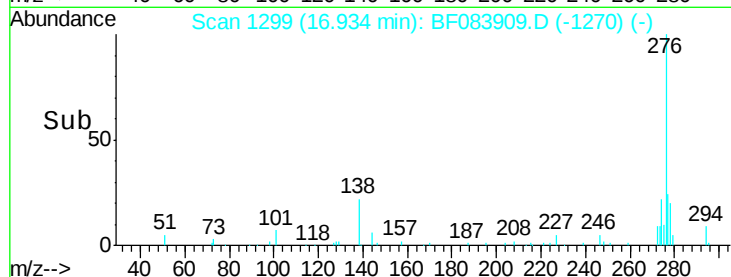
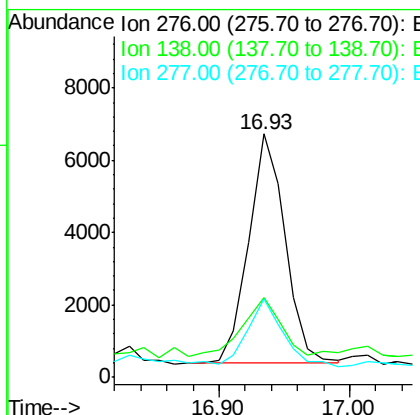
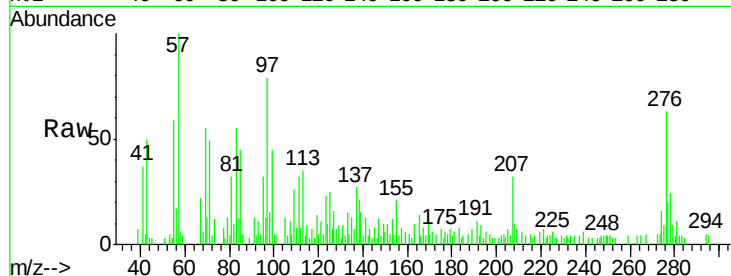
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.94 ng
 RT: 16.93 min Scan# 1299
 Delta R.T. 0.03 min
 Lab File: BF083909.D
 Acq: 18 Dec 2015 10:51

Instrument :
 BNA_F
 ClientSampleId :
 K212-(8-10)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.1	20.6	30.8
277	28.1	20.1	30.1

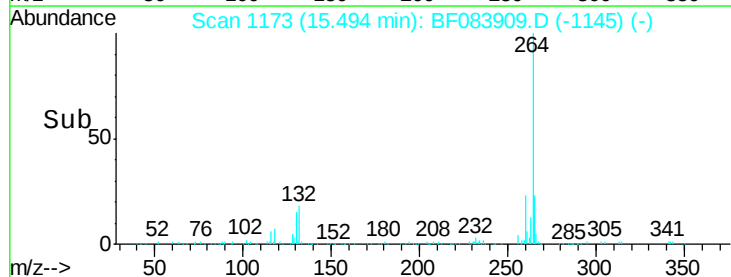
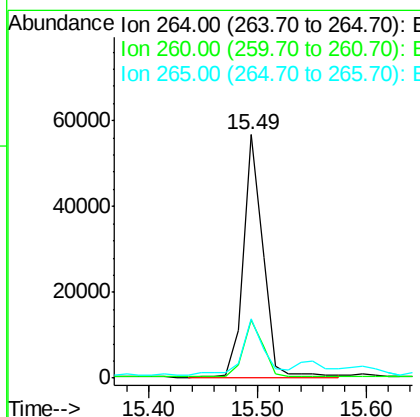
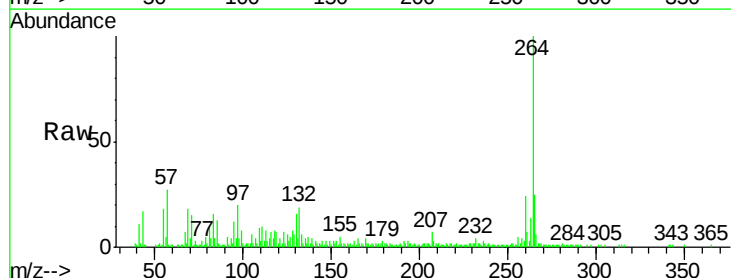
Manual Integrations
 APPROVED

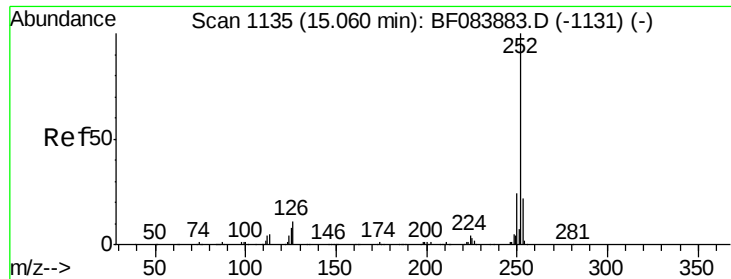
MMdadoda
 12/18/2015 6:22:11 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 1173
 Delta R.T. 0.02 min
 Lab File: BF083909.D
 Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	24.6	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 10.13 ng m

RT: 15.08 min Scan# 1137

Delta R.T. 0.02 min

Lab File: BF083909.D

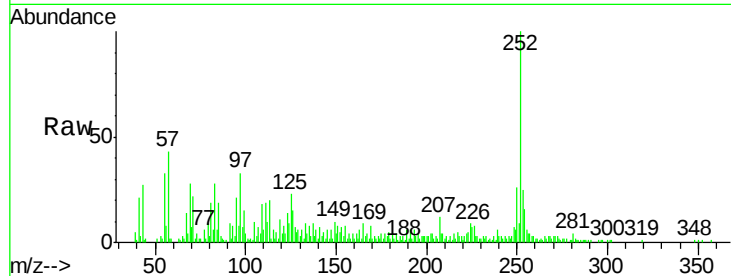
Acq: 18 Dec 2015 10:51

Instrument :

BNA_F

ClientSampleId :

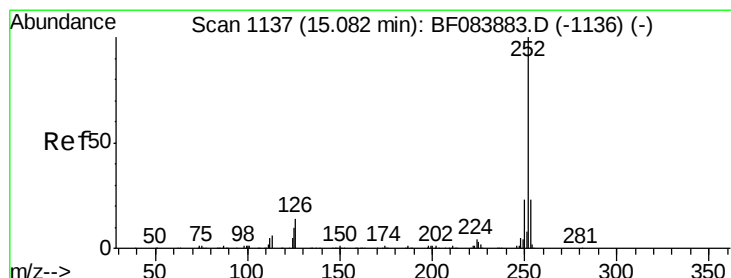
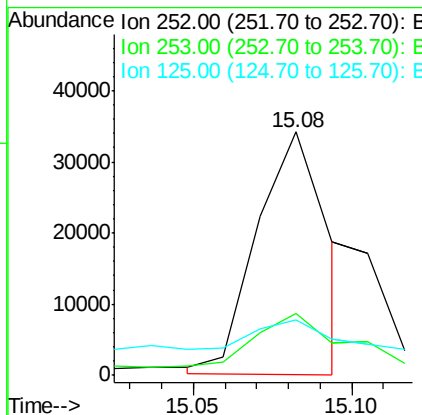
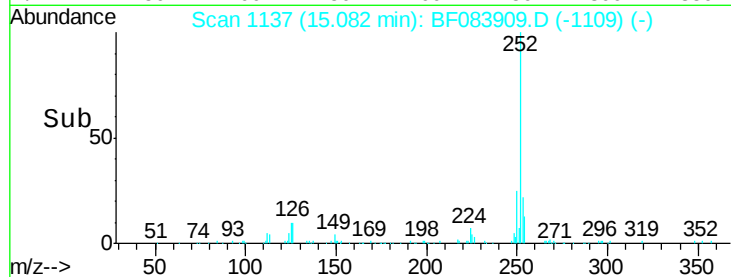
K212-(8-10)DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.3	25.9
125	22.8	6.5	9.7#

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#88

Benzo(k)fluoranthene

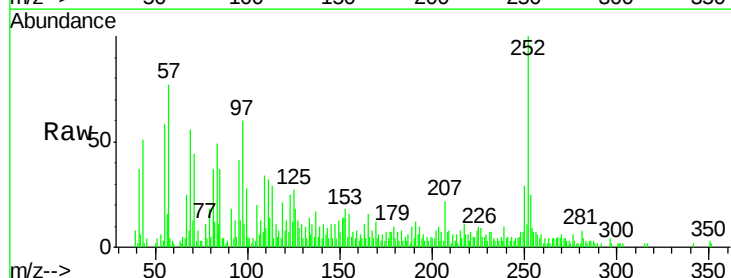
Concen: 3.61 ng m

RT: 15.09 min Scan# 1138

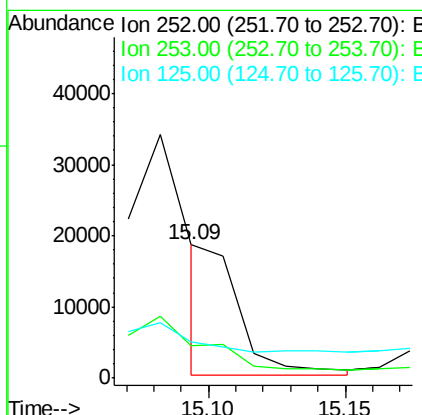
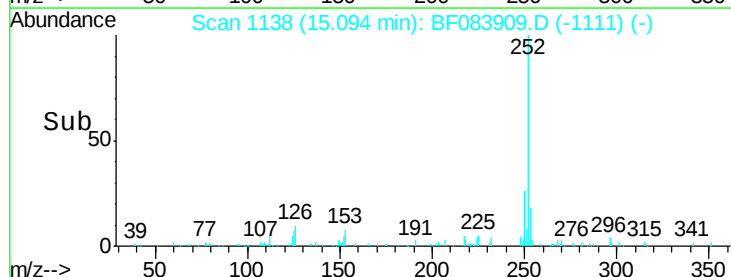
Delta R.T. 0.01 min

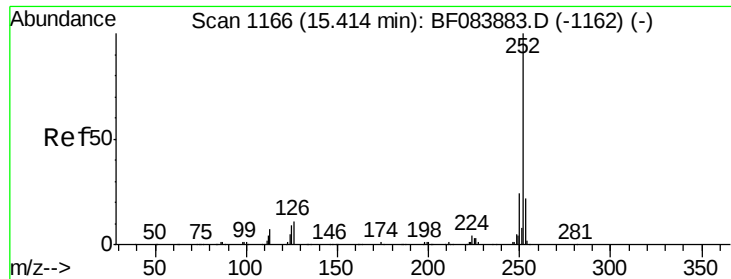
Lab File: BF083909.D

Acq: 18 Dec 2015 10:51



Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	27.2	9.0	13.6#





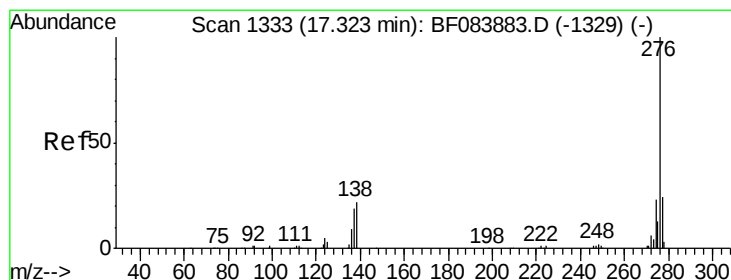
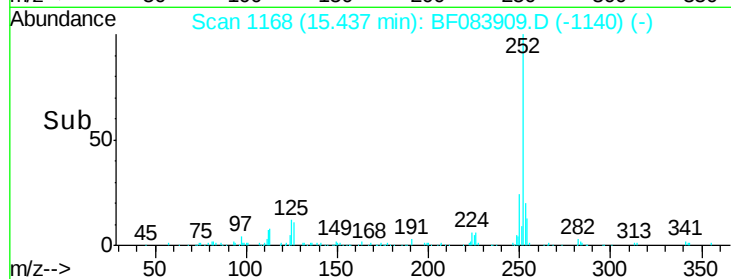
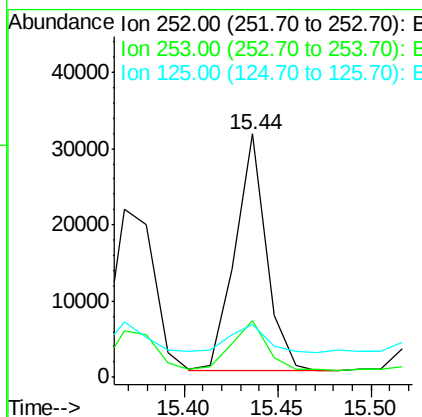
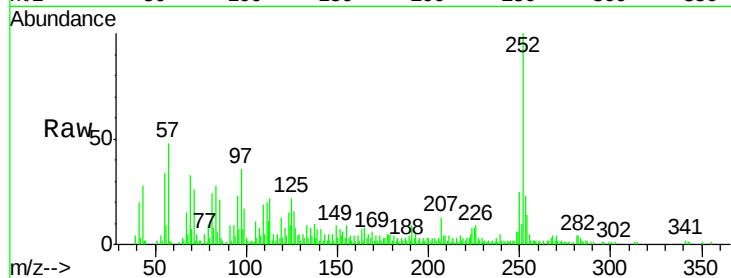
#89
Benzo(a)pyrene
Concen: 8.45 ng
RT: 15.44 min Scan# 1168
Delta R.T. 0.02 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	21.8	7.0	10.4

Manual Integrations
APPROVED

MMdadoda
12/18/2015 6:22:11 PM



#91
Benzo(g,h,i)perylene
Concen: 4.54 ng
RT: 17.37 min Scan# 1337
Delta R.T. 0.05 min
Lab File: BF083909.D
Acq: 18 Dec 2015 10:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.7	18.8	28.2
138	33.5	17.8	26.6

