

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
 Data File : BF083898.D
 Acq On : 18 Dec 2015 5:44
 Operator : UM/SJ
 Sample : G4739-13DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K211-13-14DL

Manual Integrations
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Quant Time: Dec 18 13:33:44 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	54938	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	206143	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	97716	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	137710	20.00	ng	0.01
75) Chrysene-d12	14.04	240	100235	20.00	ng	0.01
86) Perylene-d12	15.48	264	96539	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	209439	59.66	ng	0.00
7) Phenol-d6	6.51	99	247443	57.59	ng	0.00
23) Nitrobenzene-d5	7.44	82	166943	46.22	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	57043	52.99	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	285610	37.45	ng	-0.01
78) Terphenyl-d14	12.98	244	180136	38.59	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.18	128	107983	8.62	ng	# 97
37) 2-Methylnaphthalene	8.88	142	56754	7.92	ng	# 91
48) Acenaphthylene	9.78	152	121941	10.70	ng	# 97
49) Dimethylphthalate	9.63	163	37432	4.57	ng	# 87
51) Acenaphthene	9.94	154	27919	3.99	ng	94
70) Phenanthrene	11.43	178	62392m	7.50	ng	
71) Anthracene	11.47	178	146299m	18.19	ng	
74) Fluoranthene	12.61	202	313285	37.73	ng	98
77) Pyrene	12.84	202	415152	61.36	ng	100
80) Benzo(a)anthracene	14.03	228	233201	37.84	ng	93
82) Chrysene	14.07	228	208055m	34.95	ng	
85) Indeno(1,2,3-cd)pyrene	16.91	276	30674	6.89	ng	100
87) Benzo(b)fluoranthene	15.06	252	115896m	16.47	ng	
88) Benzo(k)fluoranthene	15.08	252	22146m	3.81	ng	
89) Benzo(a)pyrene	15.41	252	101709	17.50	ng	# 94
90) Dibenzo(a,h)anthracene	16.91	278	11371	2.51	ng	# 84
91) Benzo(g,h,i)perylene	17.33	276	31464	7.10	ng	98

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

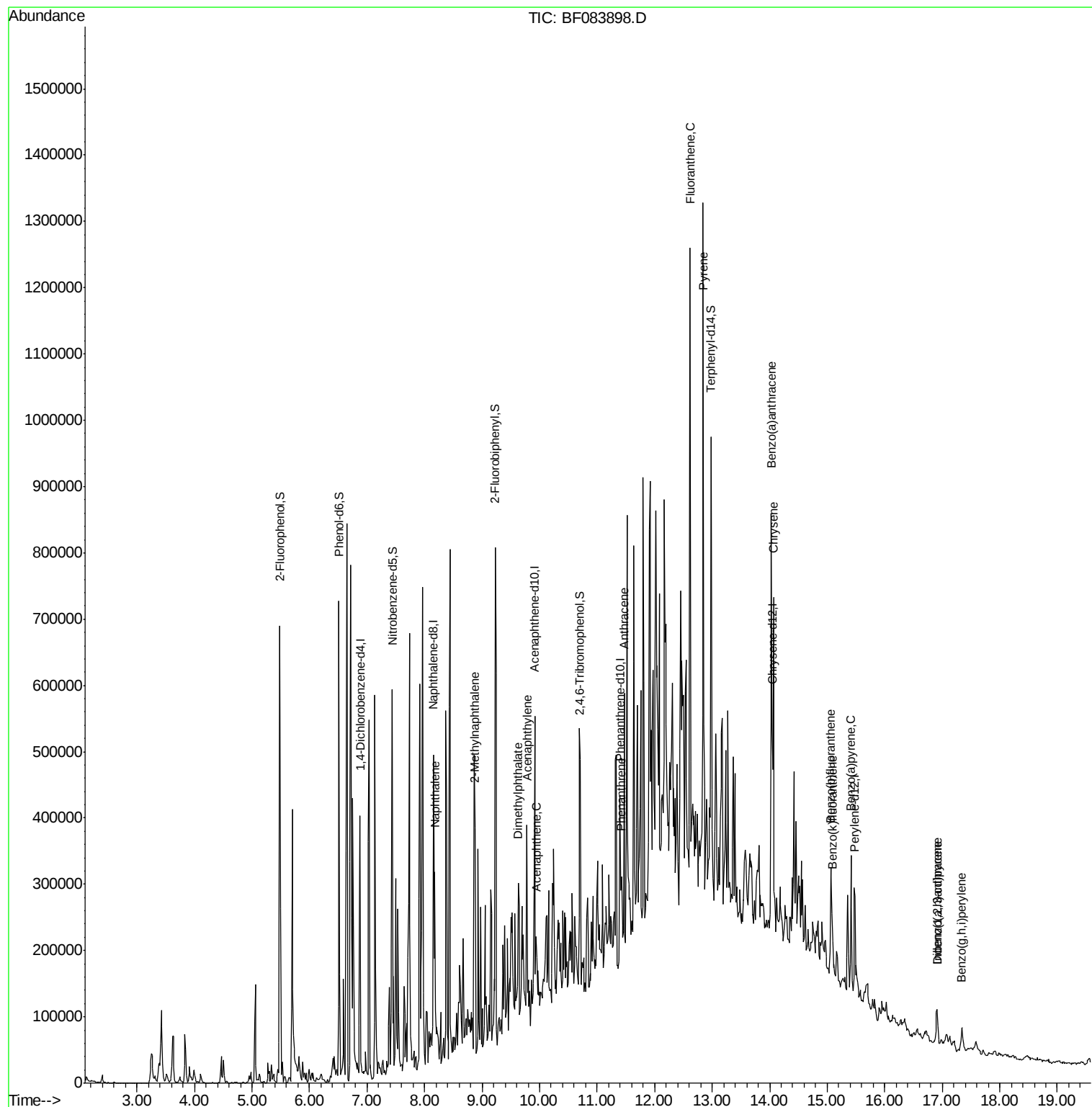
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
Data File : BF083898.D
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Sample : G4739-13DL 2X
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ALS Vial : 19 Sample Multiplier: 1

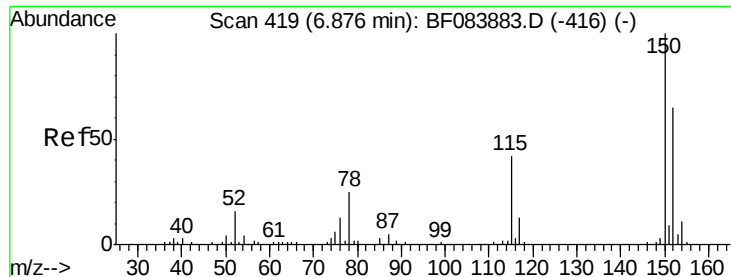
Instrument :
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K211-13-14DL

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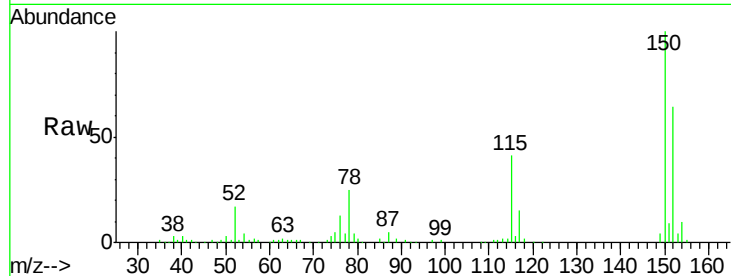
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 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.88 min Scan# 419
 Delta R.T. 0.00 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Instrument :
 BNA_F
 ClientSampleId :
 K211-13-14DL

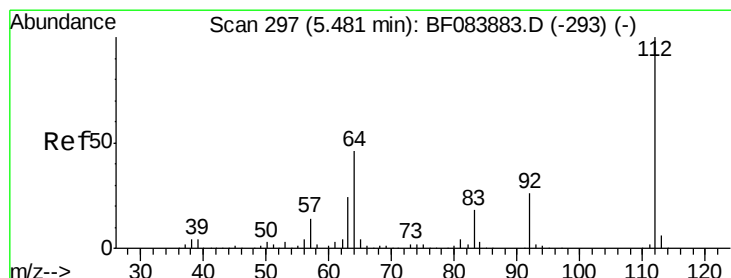
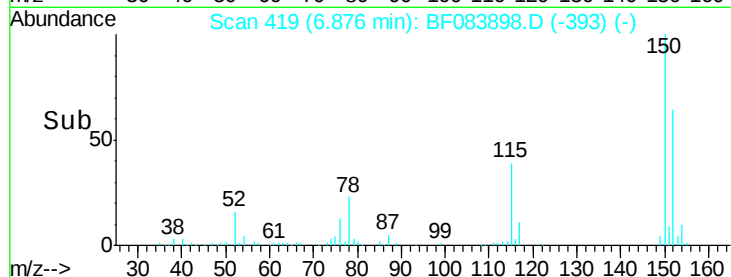
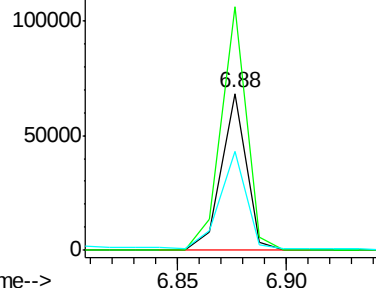
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.1	123.0	184.4
115	63.1	51.4	77.2

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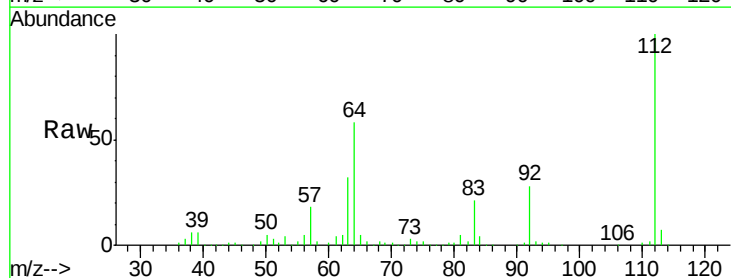


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

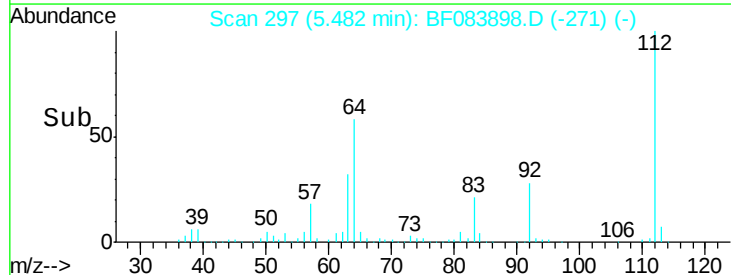
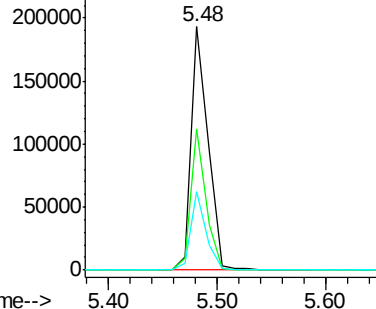


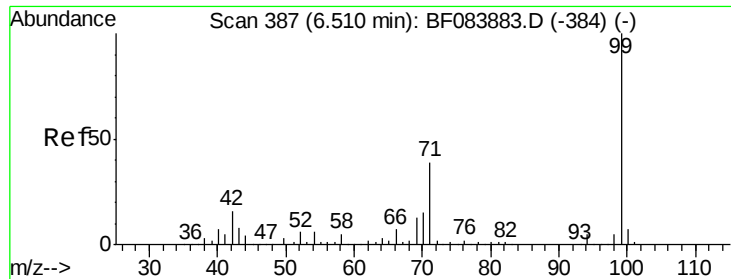
#5
 2-Fluorophenol
 Concen: 59.66 ng
 RT: 5.48 min Scan# 297
 Delta R.T. 0.00 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.2	36.6	55.0#
63	32.4	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: 57.59 ng

RT: 6.51 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

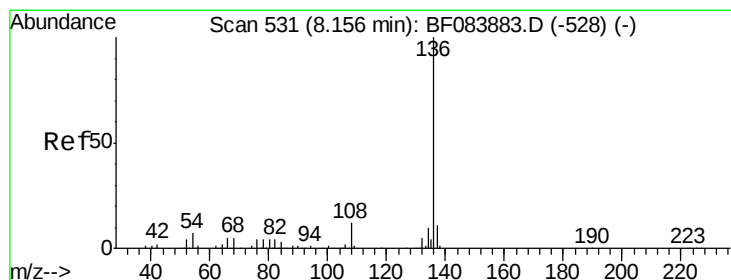
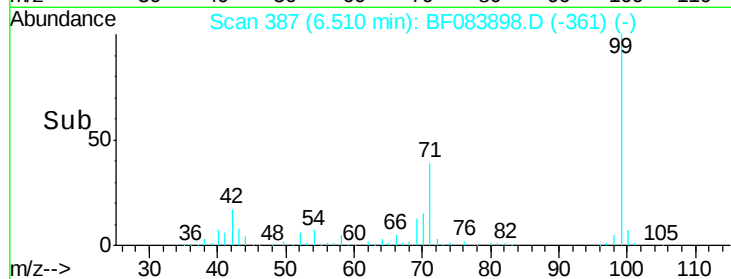
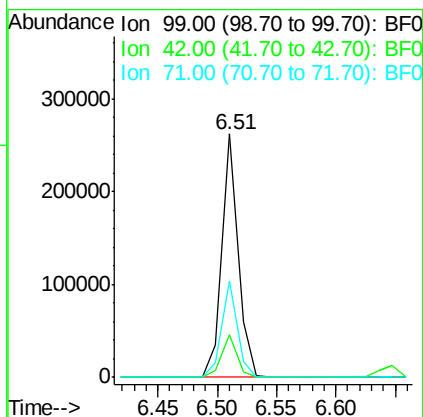
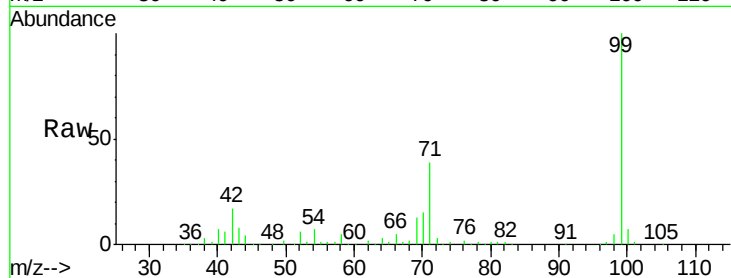
ClientSampleId :

K211-13-14DL

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		247443		
42	17.4	12.8	19.2		
71	39.5	30.9	46.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

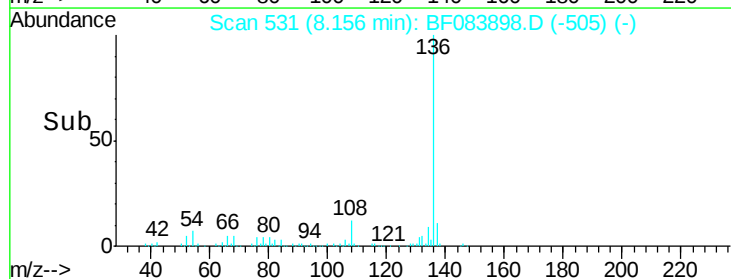
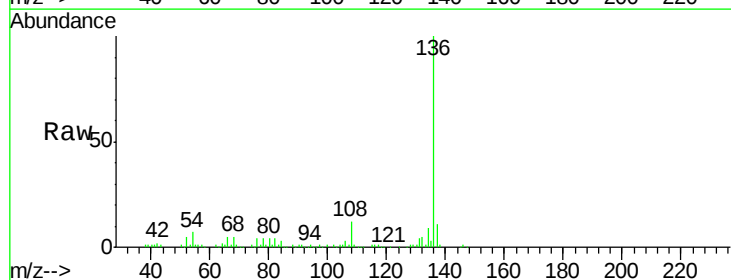
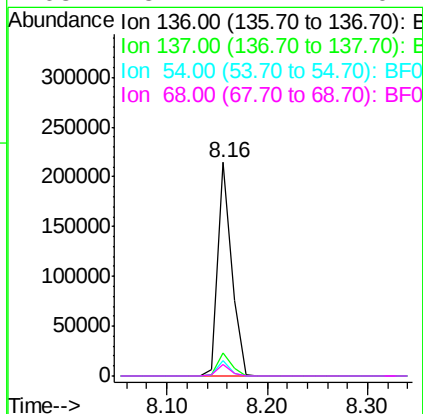
RT: 8.16 min Scan# 531

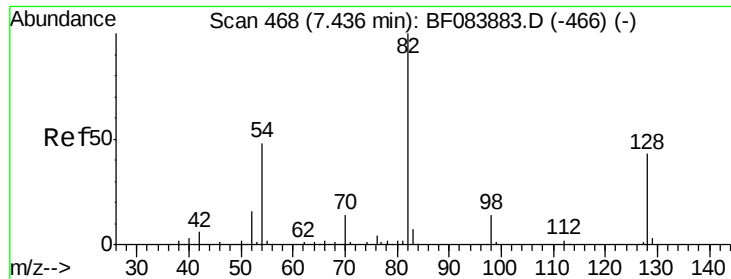
Delta R.T. 0.00 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		206143		
137	10.8	8.7	13.1		
54	7.3	5.8	8.8		
68	5.4	4.2	6.2		





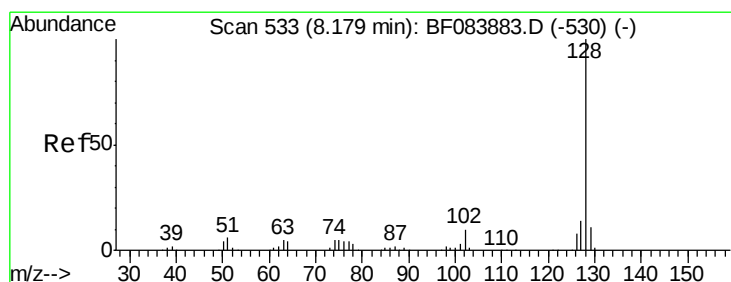
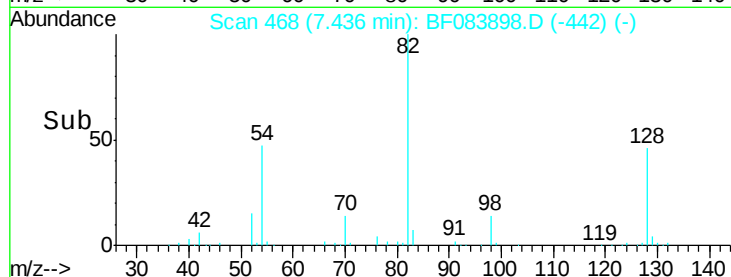
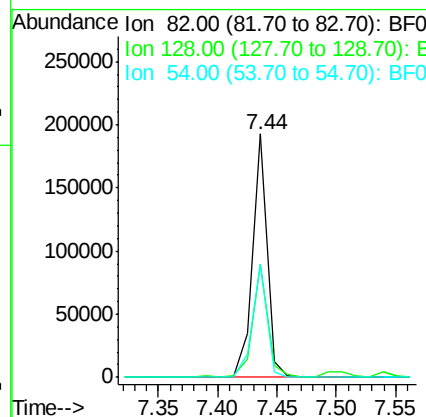
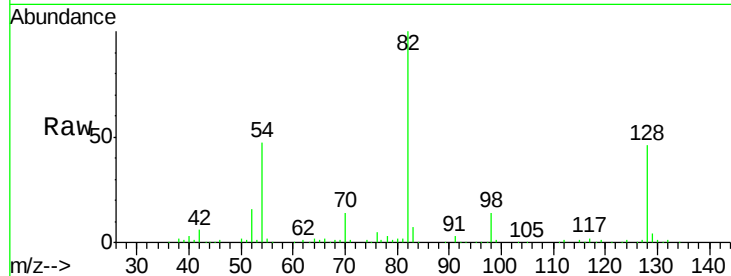
#23
 Nitrobenzene-d5
 Concen: 46.22 ng
 RT: 7.44 min Scan# 468
 Delta R.T. 0.00 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Instrument :
 BNA_F
 ClientSampleID :
 K211-13-14DL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	166943		
128	46.4	34.6	51.8	
54	46.7	38.4	57.6	

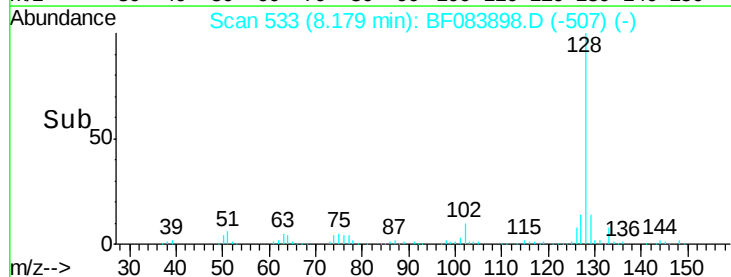
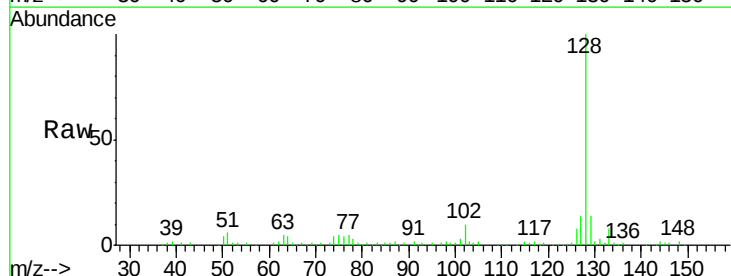
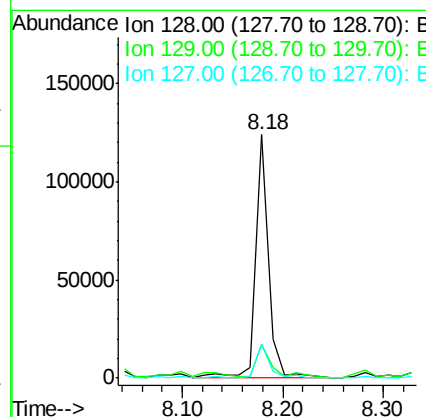
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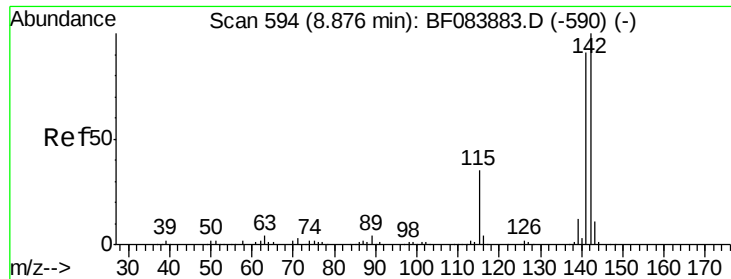
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#31
 Naphthalene
 Concen: 8.62 ng
 RT: 8.18 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	107983		
129	13.9	9.1	13.7#	
127	14.1	11.1	16.7	





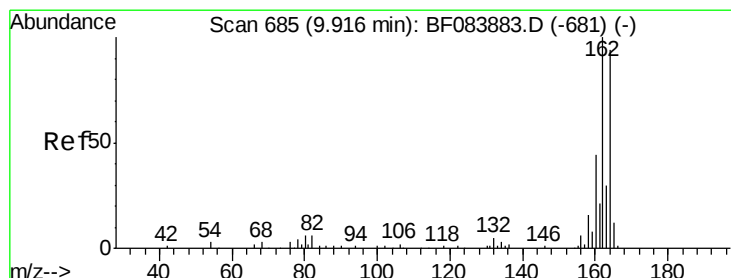
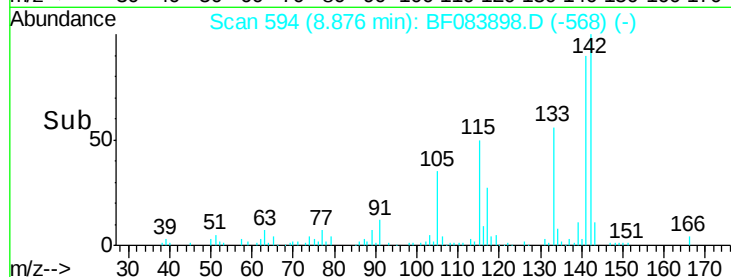
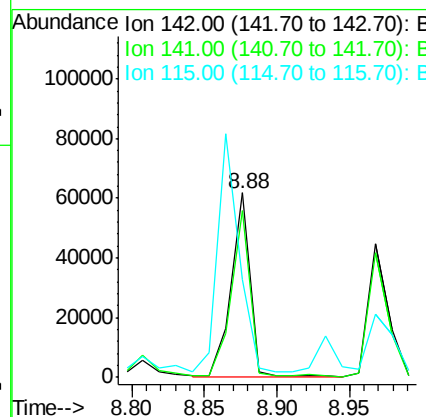
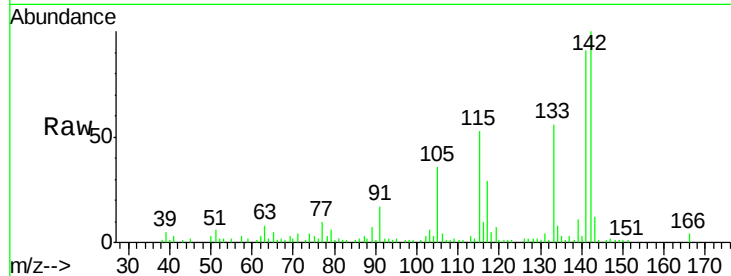
#37
2-Methylnaphthalene
Concen: 7.92 ng
RT: 8.88 min Scan# 594
Delta R.T. 0.00 min
Lab File: BF083898.D
Acq: 18 Dec 2015 5:44

Instrument :
BNA_F
ClientSampleId :
K211-13-14DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.4	108.6
115	52.7	27.9	41.9

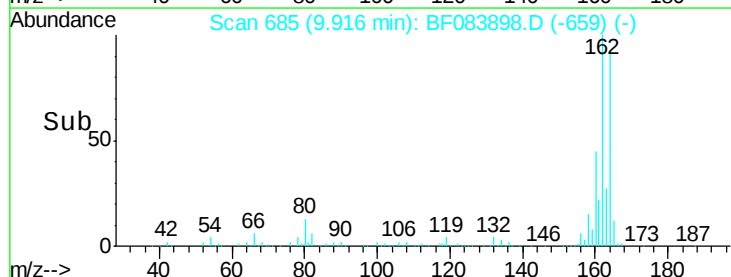
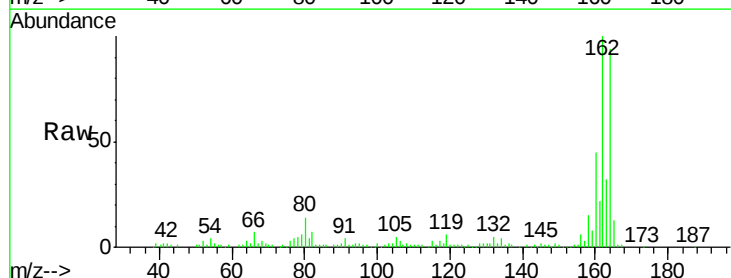
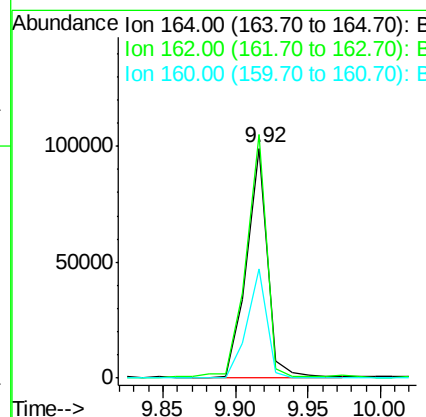
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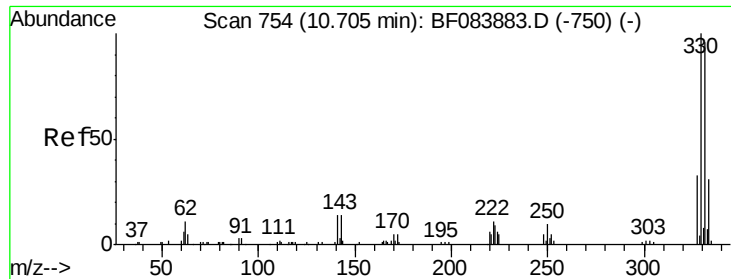
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 685
Delta R.T. 0.00 min
Lab File: BF083898.D
Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	85.1	127.7
160	47.6	37.5	56.3





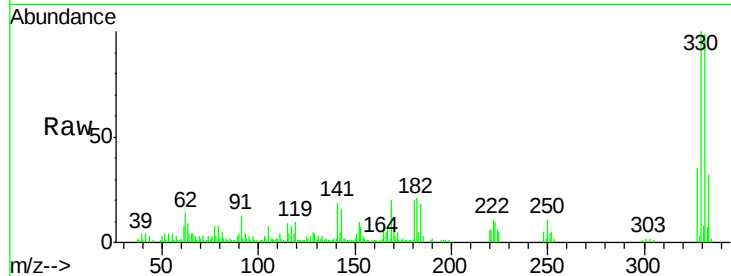
#41
 2,4,6-Tribromophenol
 Concen: 52.99 ng
 RT: 10.70 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Instrument :
 BNA_F
 ClientSampleId :
 K211-13-14DL

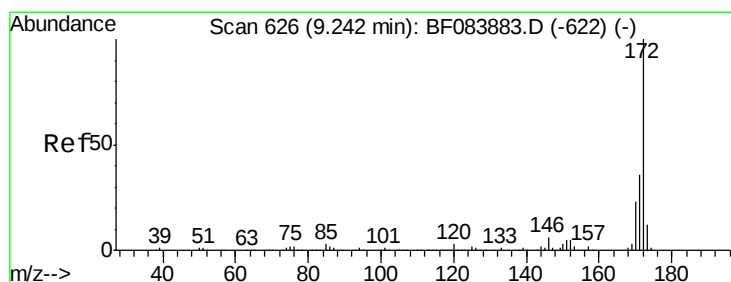
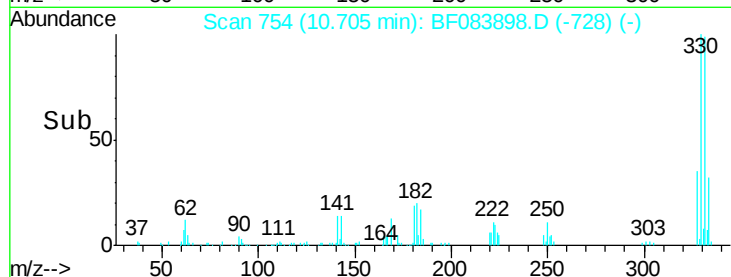
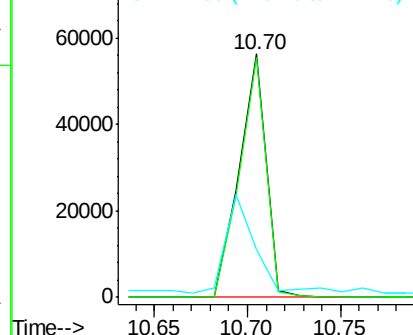
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	57043		
332	97.3	76.6	114.8	
141	41.8	27.8	41.6#	

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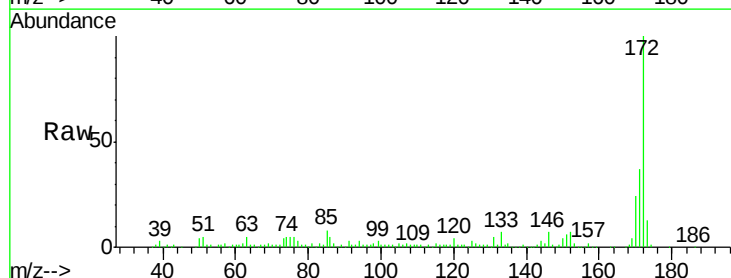


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

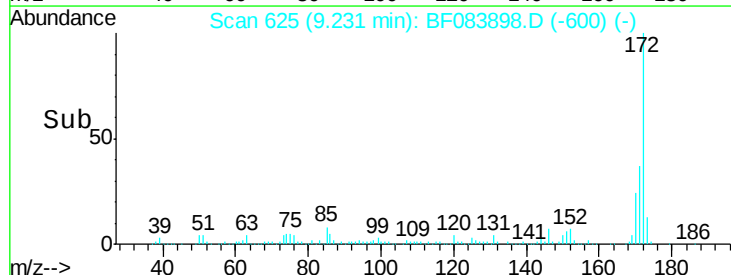
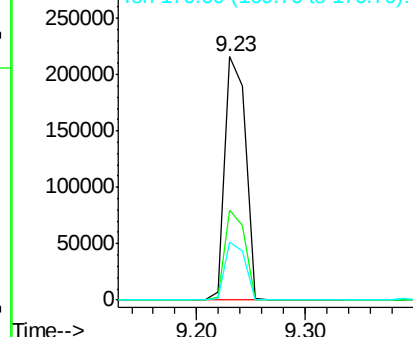


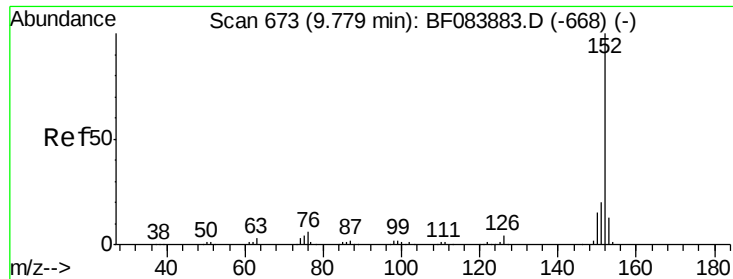
#44
 2-Fluorobiphenyl
 Concen: 37.45 ng
 RT: 9.23 min Scan# 625
 Delta R.T. -0.01 min
 Lab File: BF083898.D
 Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	285610		
171	36.9	28.9	43.3	
170	23.9	18.6	27.8	



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





#48

Acenaphthylene

Concen: 10.70 ng

RT: 9.78 min Scan# 673

Delta R.T. 0.00 min

Lab File: BF083898.D

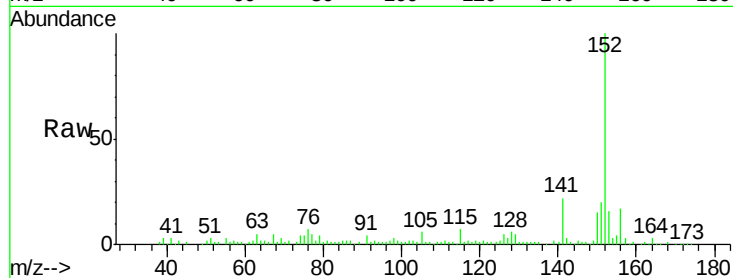
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Instrument :

BNA_F

ClientSampleId :

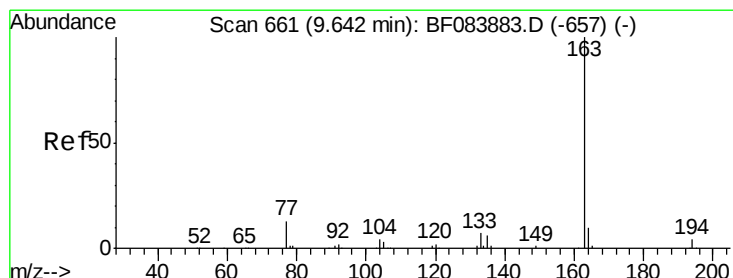
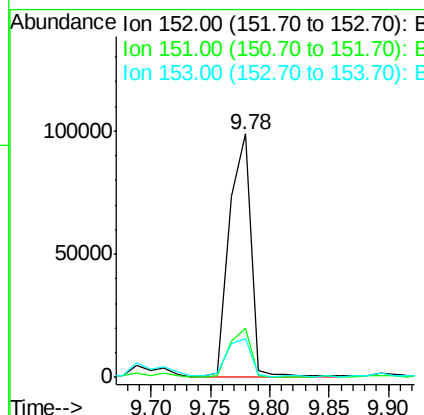
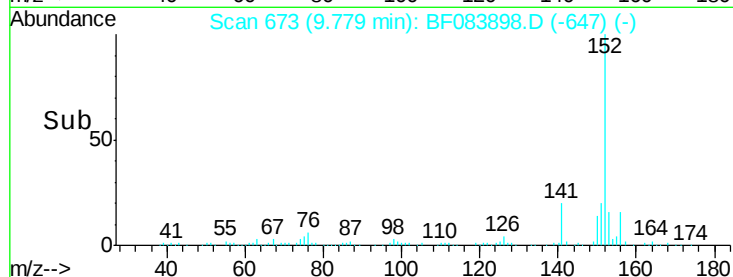
K211-13-14DL



Tgt Ion	Ratio	Resp	Lower	Upper
152	100	121941		
151	20.0	16.3	24.5	
153	16.0	10.4	15.6	

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#49

Dimethylphthalate

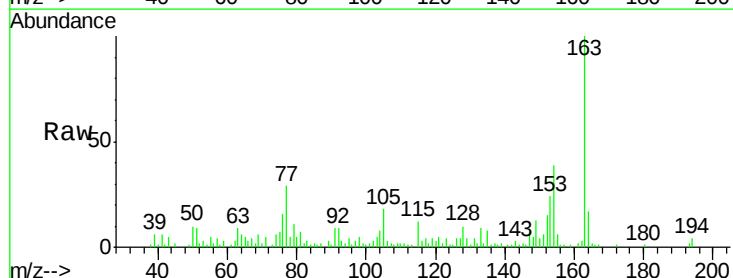
Concen: 4.57 ng

RT: 9.63 min Scan# 660

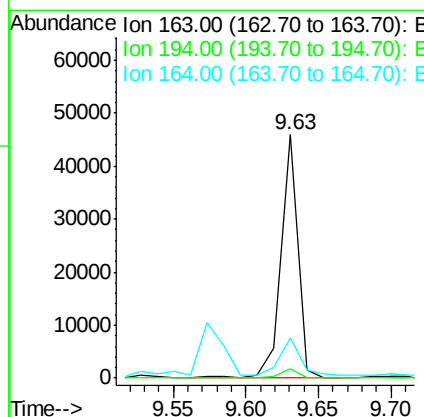
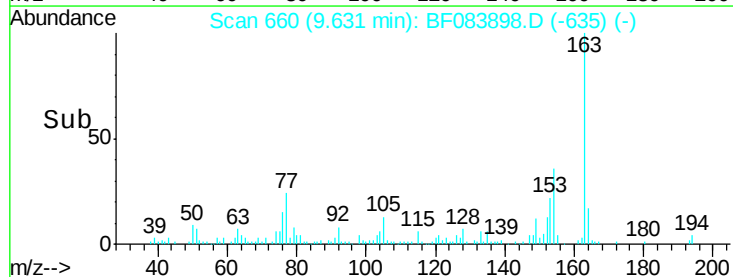
Delta R.T. -0.01 min

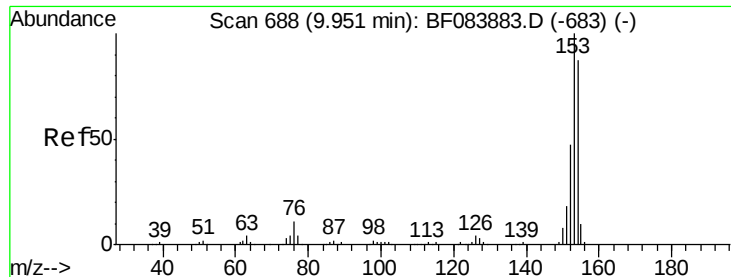
Lab File: BF083898.D

Acq: 18 Dec 2015 5:44



Tgt Ion	Ratio	Resp	Lower	Upper
163	100	37432		
194	4.0	3.0	4.6	
164	16.6	7.9	11.9	





#51

Acenaphthene

Concen: 3.99 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF083898.D

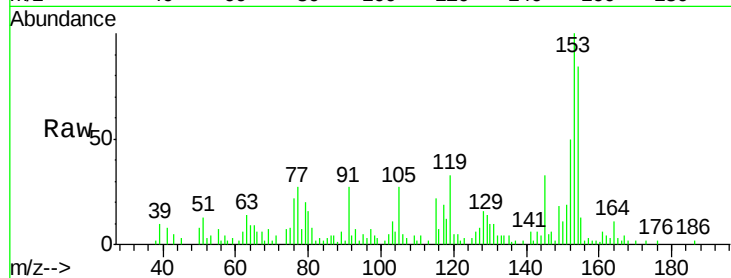
Acq: 18 Dec 2015 5:44

Instrument :

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ClientSampleId :

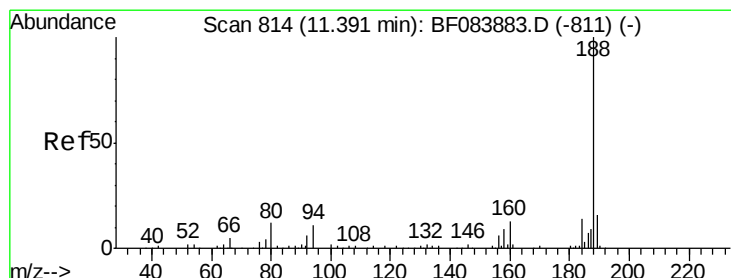
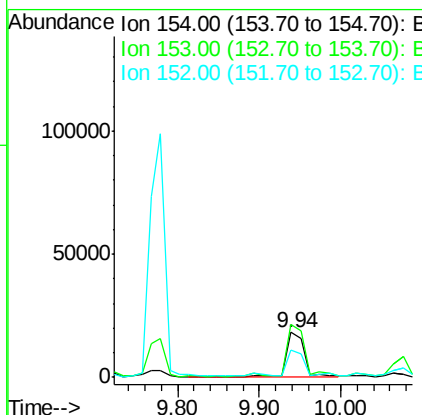
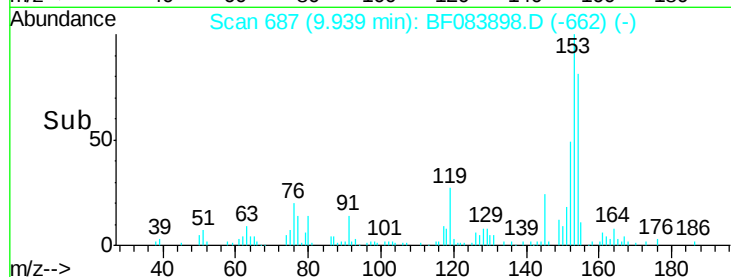
K211-13-14DL



Tgt Ion:	154	Resp:	27919
Ion Ratio	Lower	Upper	
154	100		
153	119.2	91.5	137.3
152	60.0	43.0	64.6

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#63

Phenanthrene-d10

Concen: 20.00 ng

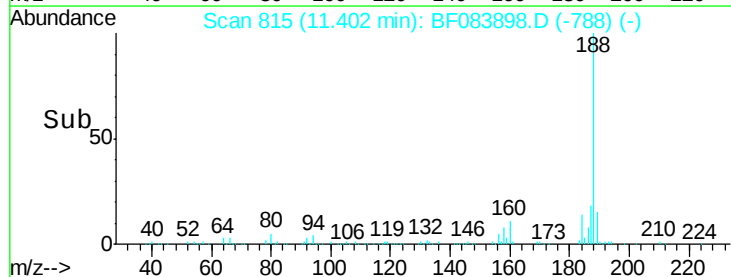
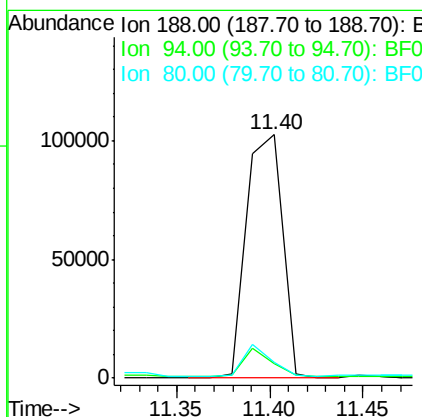
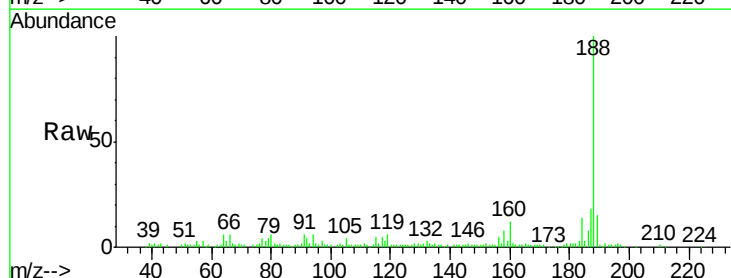
RT: 11.40 min Scan# 815

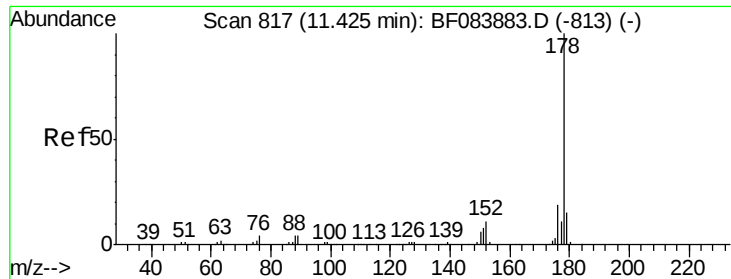
Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion:	188	Resp:	137710
Ion Ratio	Lower	Upper	
188	100		
94	6.2	9.0	13.4#
80	6.4	9.6	14.4#





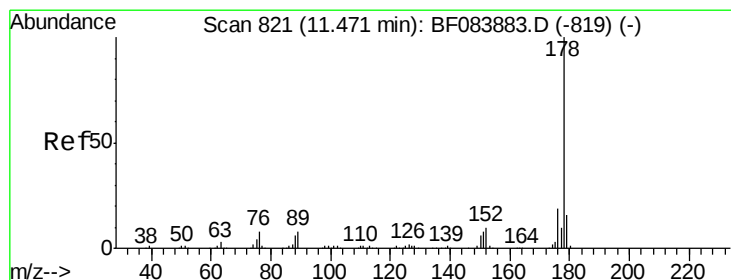
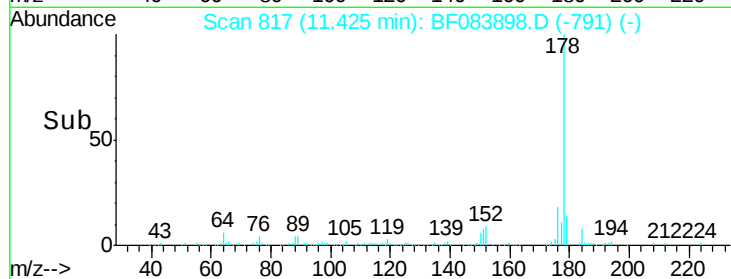
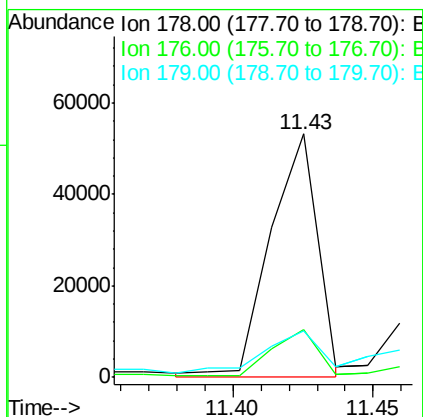
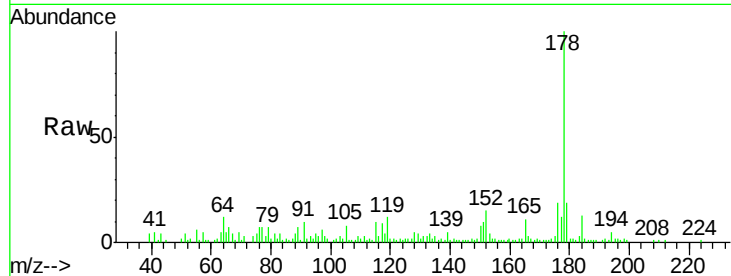
#70
Phenanthrene
Concen: 7.50 ng m
RT: 11.43 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF083898.D
Acq: 18 Dec 2015 5:44

Instrument :
BNA_F
ClientSampleId :
K211-13-14DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	19.1	12.0	18.0

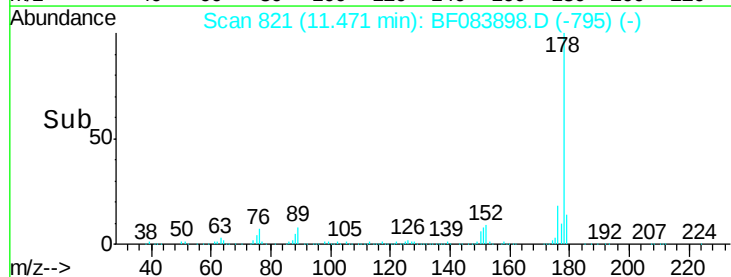
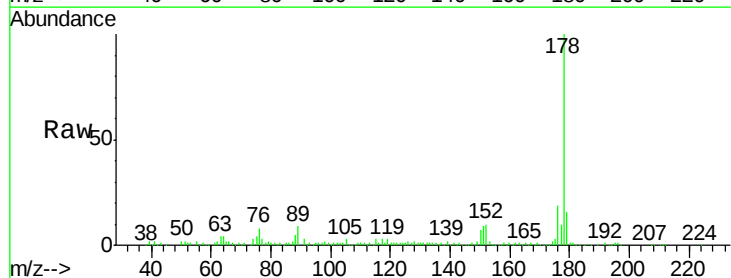
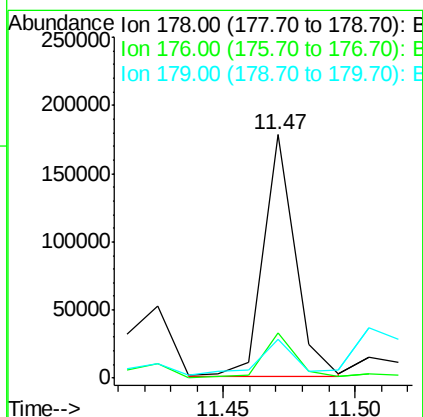
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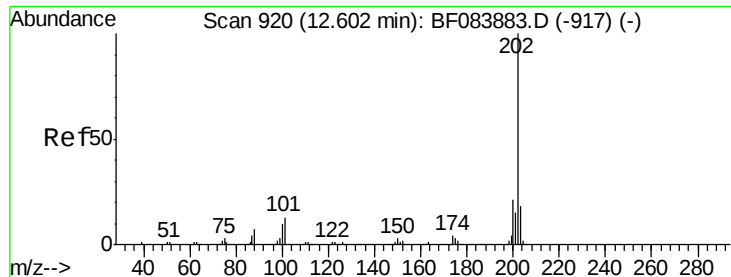
MMdadoda
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#71
Anthracene
Concen: 18.19 ng m
RT: 11.47 min Scan# 821
Delta R.T. 0.00 min
Lab File: BF083898.D
Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.0
179	16.0	12.5	18.7





#74

Fluoranthene

Concen: 37.73 ng

RT: 12.61 min Scan# 921

Delta R.T. 0.01 min

Lab File: BF083898.D

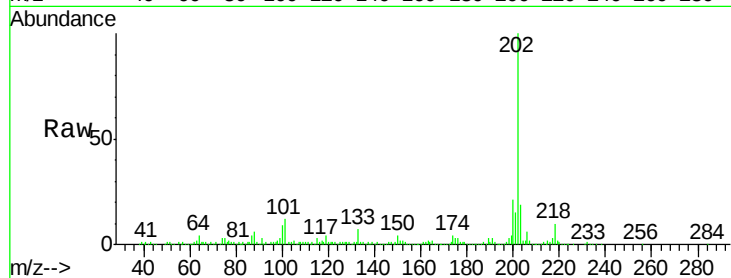
Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

ClientSampleId :

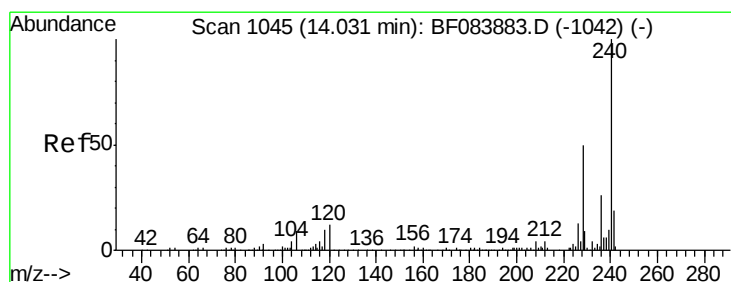
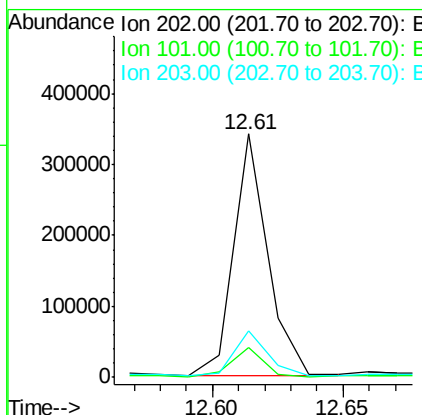
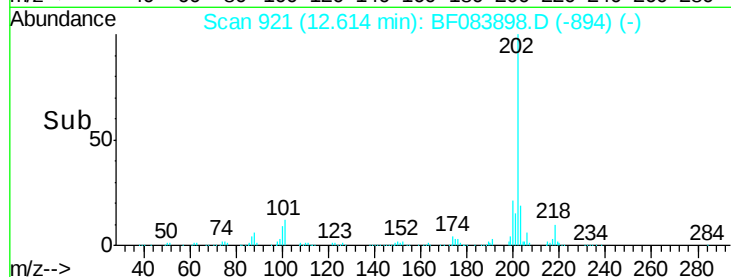
K211-13-14DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	313285		
101	12.2	0.0	32.8	
203	18.9	0.0	37.9	

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#75

Chrysene-d12

Concen: 20.00 ng

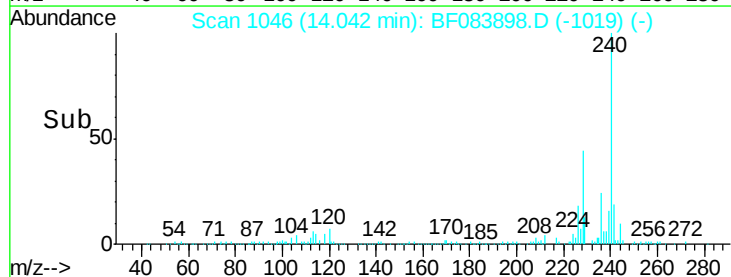
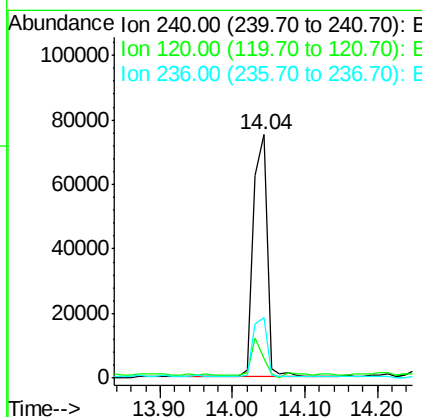
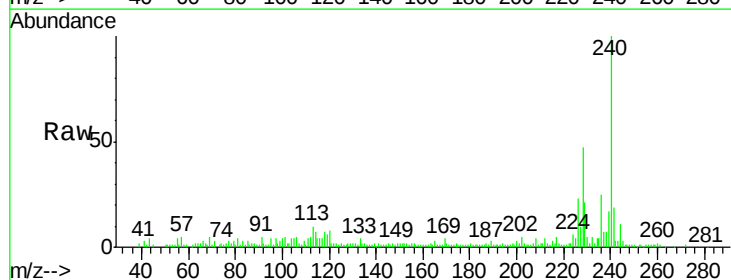
RT: 14.04 min Scan# 1046

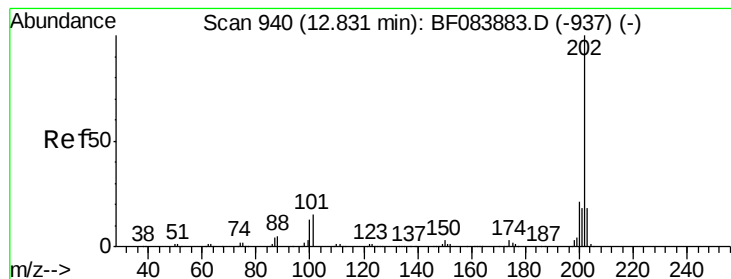
Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	100235		
120	7.9	9.5	14.3#	
236	24.9	20.6	31.0	





#77

Pyrene

Concen: 61.36 ng

RT: 12.84 min Scan# 941

Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

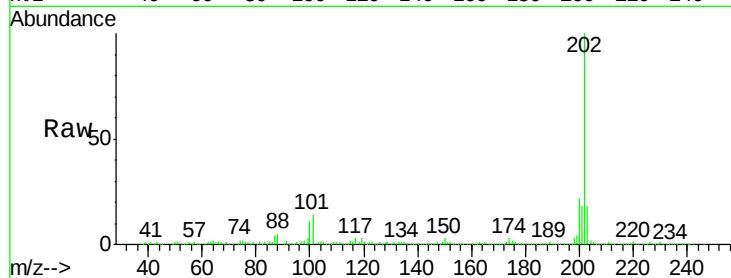
ClientSampleId :

K211-13-14DL

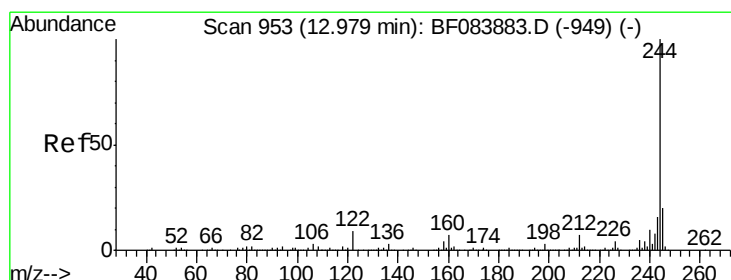
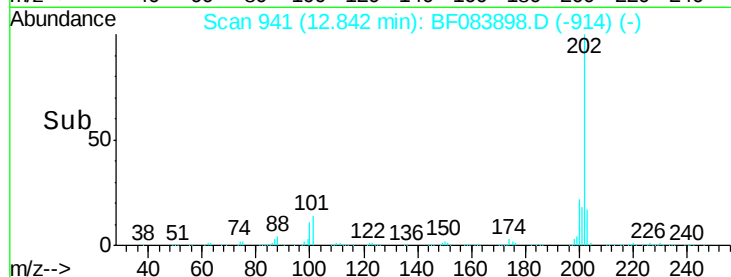
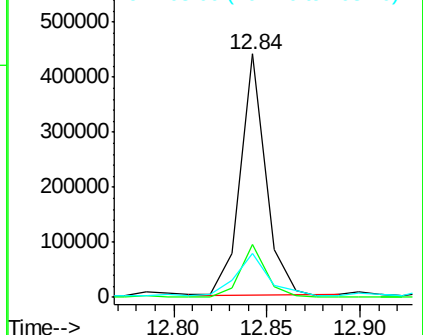
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		415152		
200	21.5	17.2	25.8		
203	18.2	14.3	21.5		

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 38.59 ng

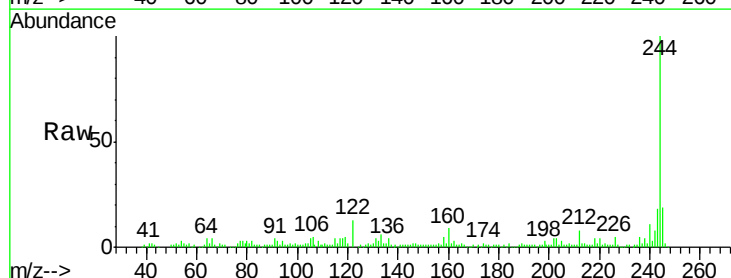
RT: 12.98 min Scan# 953

Delta R.T. 0.00 min

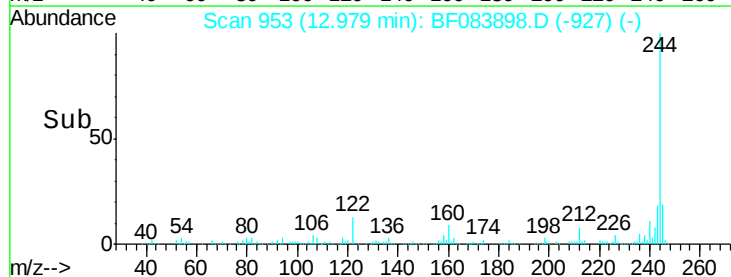
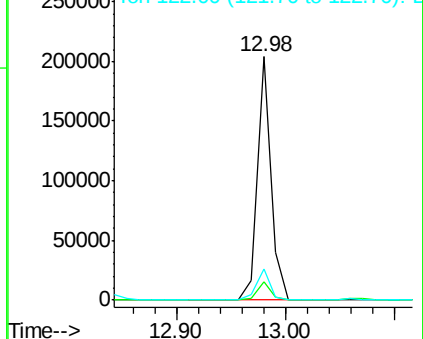
Lab File: BF083898.D

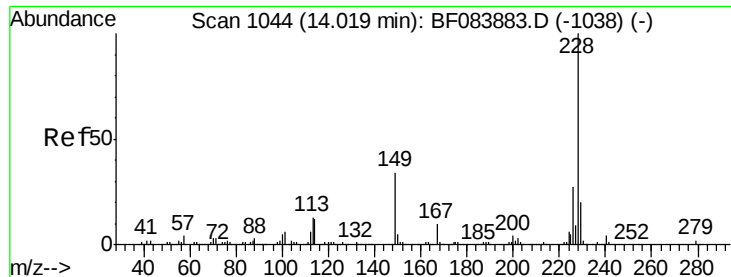
Acq: 18 Dec 2015 5:44

Tgt	Ion	Ratio	Resp	Lower	Upper
244	100		180136		
212	7.8	5.7	8.5		
122	12.9	7.4	11.0		



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 37.84 ng

RT: 14.03 min Scan# 1045

Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

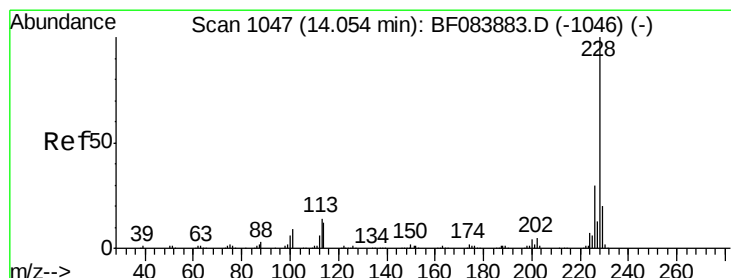
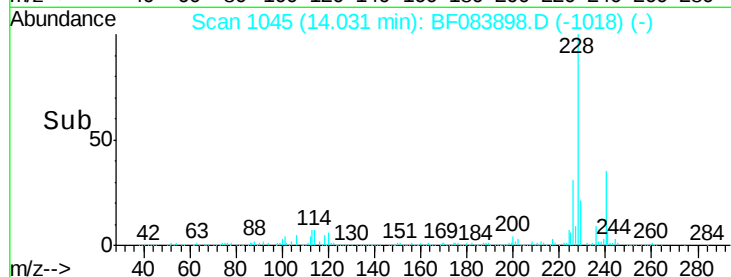
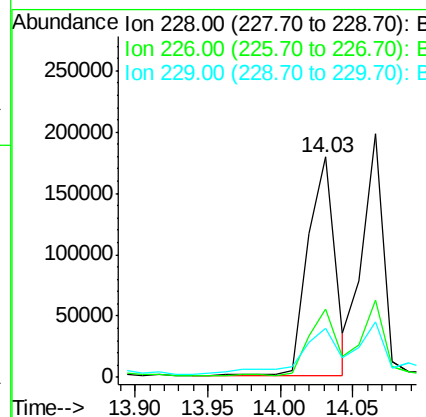
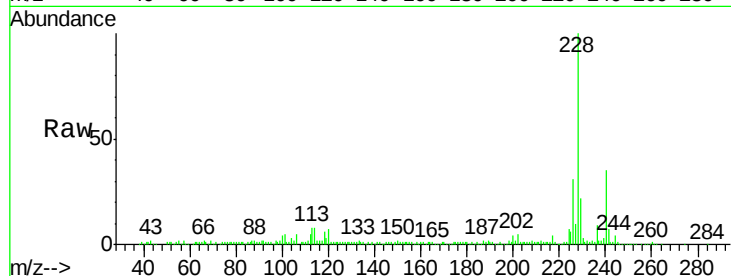
ClientSampleId :

K211-13-14DL

Tgt Ion:	228	Resp:	233201
Ion Ratio	Lower	Upper	
228	100		
226	31.1	21.8	32.6
229	22.5	15.8	23.8

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#82

Chrysene

Concen: 34.95 ng m

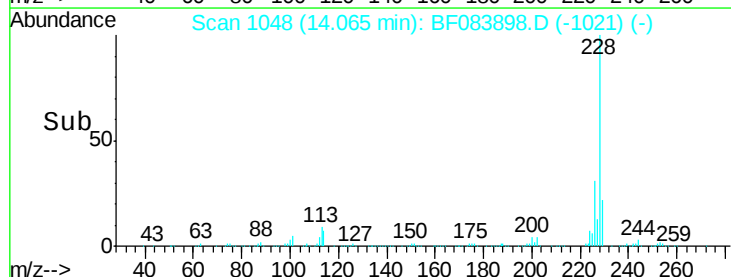
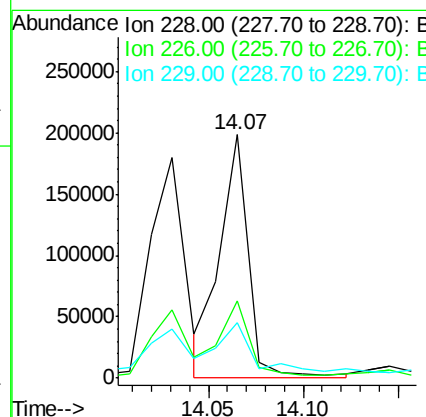
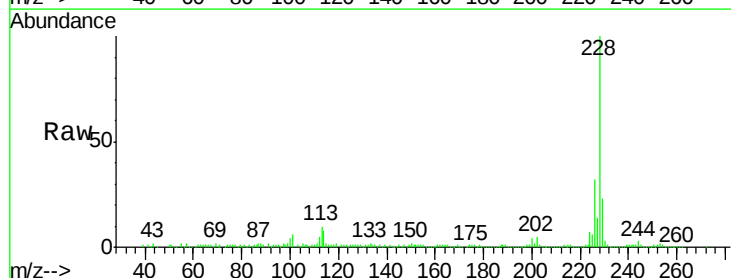
RT: 14.07 min Scan# 1048

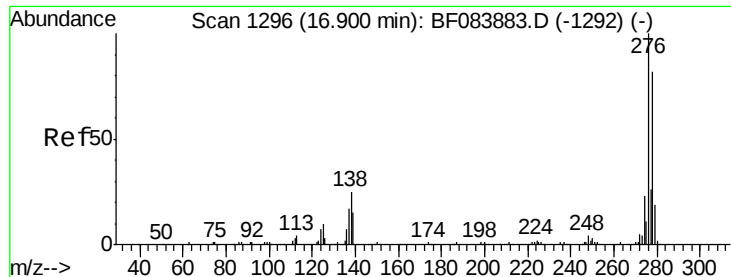
Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion:	228	Resp:	208055
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.3	36.5
229	22.9	16.1	24.1





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.89 ng

RT: 16.91 min Scan# 1297

Delta R.T. 0.01 min

Lab File: BF083898.D

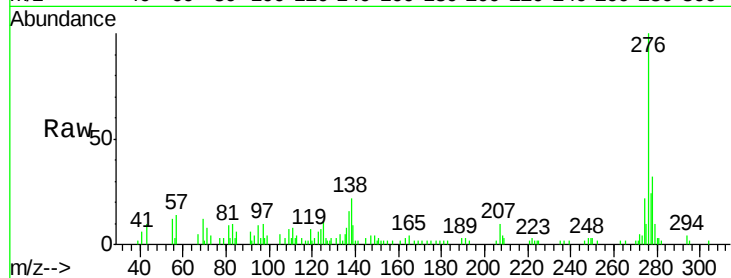
Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

ClientSampleId :

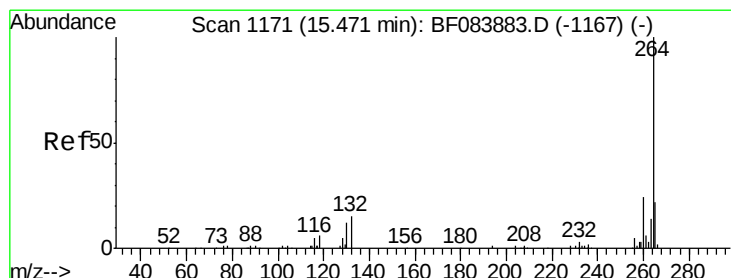
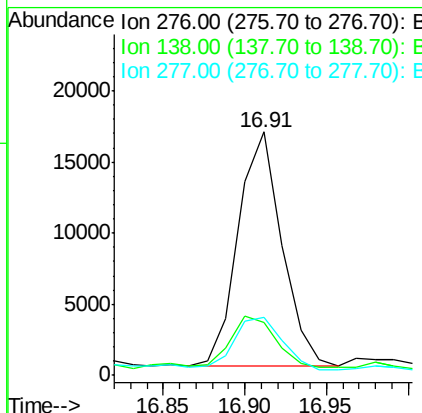
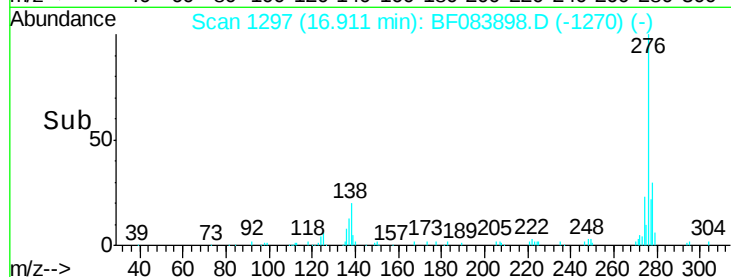
K211-13-14DL



Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.8	20.6	30.8
277	24.8	20.1	30.1

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#86

Perylene-d12

Concen: 20.00 ng

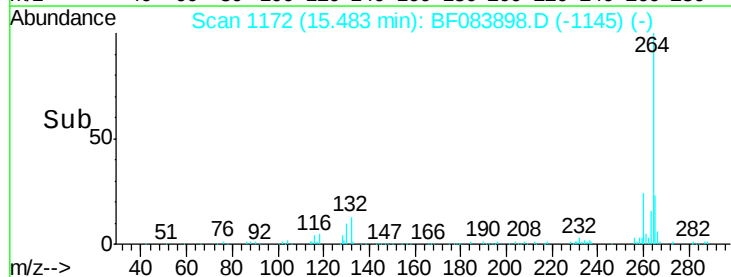
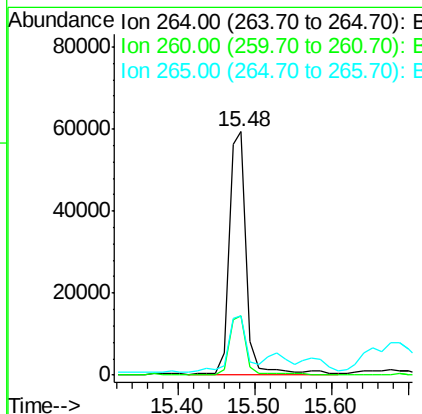
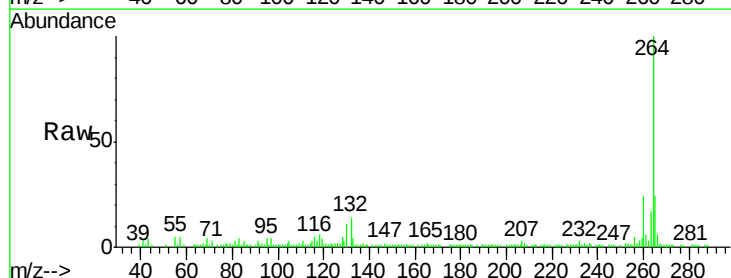
RT: 15.48 min Scan# 1172

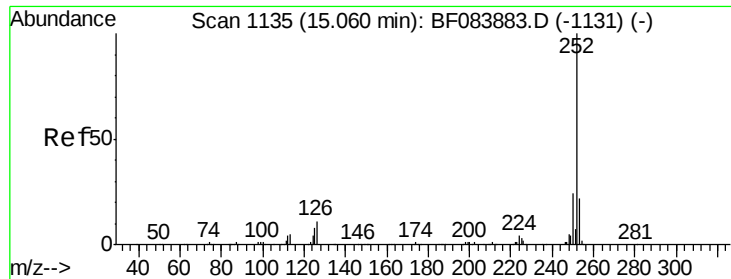
Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.4	29.2
265	24.4	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 16.47 ng m

RT: 15.06 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

ClientSampleId :

K211-13-14DL

Tgt Ion: 252 Resp: 115896
Ion Ratio Lower Upper

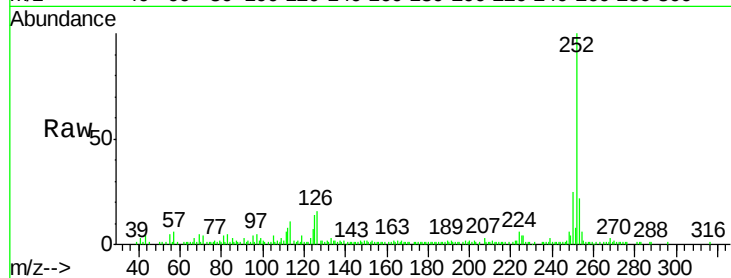
252 100

253 22.5 17.3 25.9

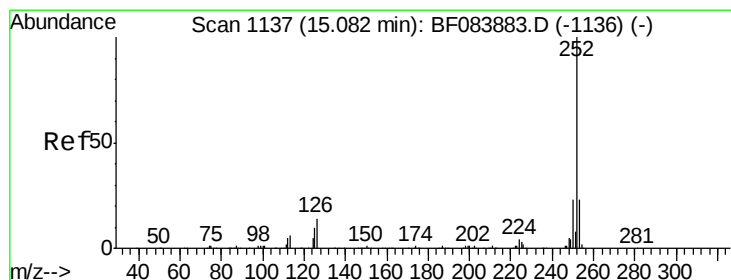
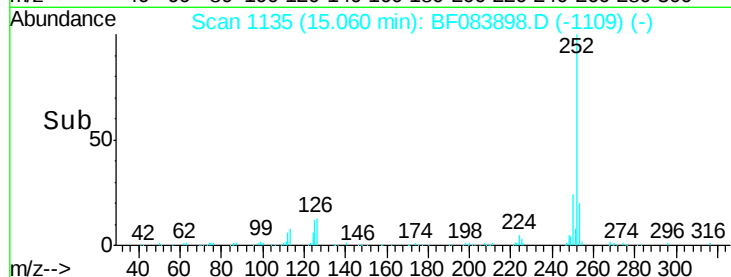
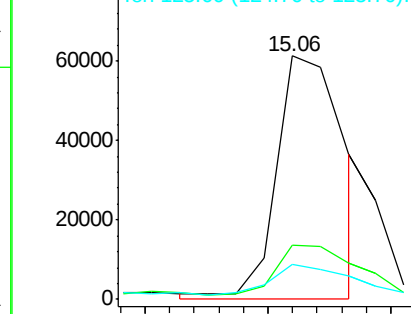
125 14.3 6.5 9.7#

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



#88

Benzo(k)fluoranthene

Concen: 3.81 ng m

RT: 15.08 min Scan# 1137

Delta R.T. 0.00 min

Lab File: BF083898.D

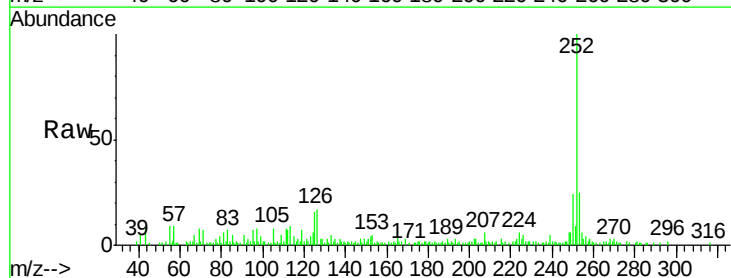
Acq: 18 Dec 2015 5:44

Tgt Ion: 252 Resp: 22146
Ion Ratio Lower Upper

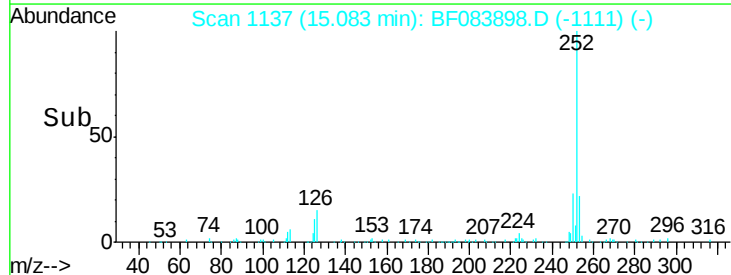
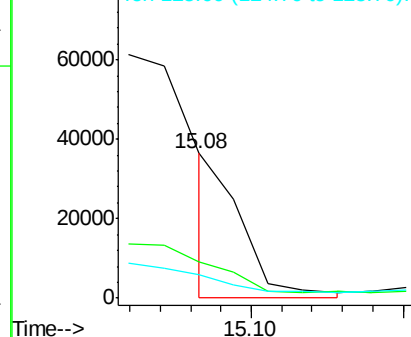
252 100

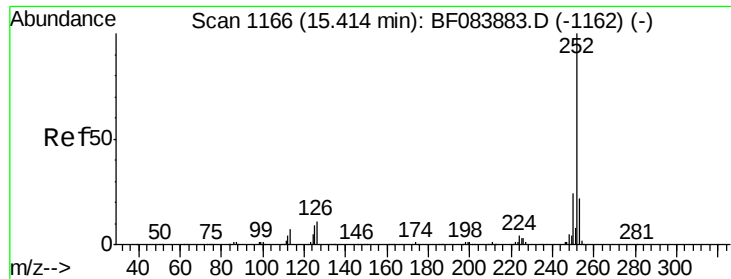
253 24.6 18.1 27.1

125 15.9 9.0 13.6#



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





#89

Benzo(a)pyrene

Concen: 17.50 ng

RT: 15.41 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Instrument :

BNA_F

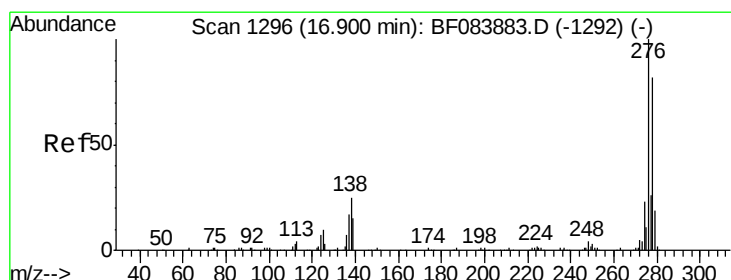
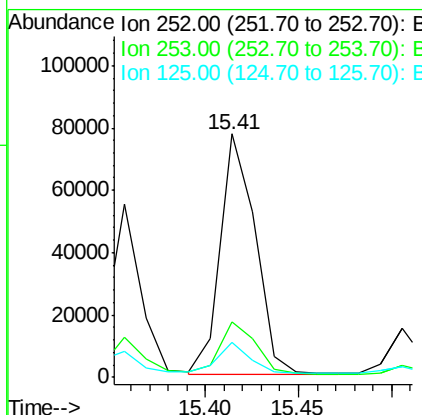
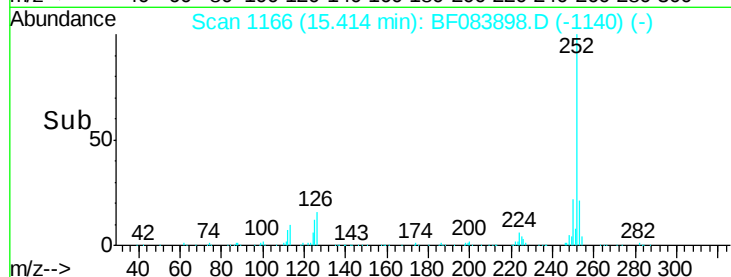
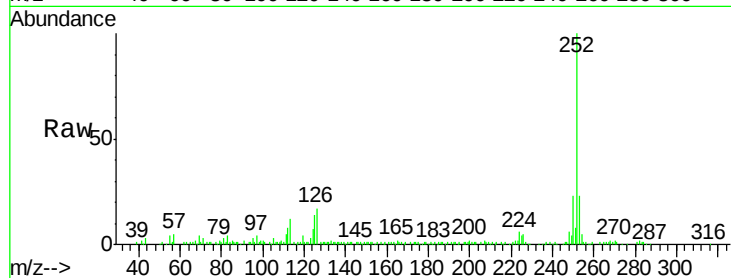
ClientSampleId :

K211-13-14DL

Tgt Ion:	252	Resp:	101709
Ion Ratio		Lower	Upper
252	100		
253	22.5	17.3	25.9
125	14.2	7.0	10.4#

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#90

Dibenzo(a,h)anthracene

Concen: 2.51 ng

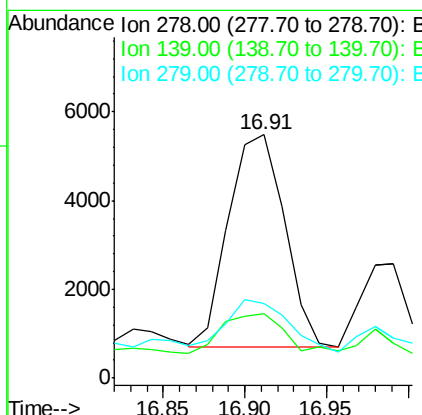
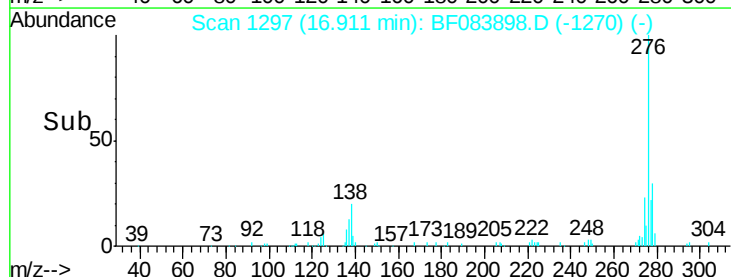
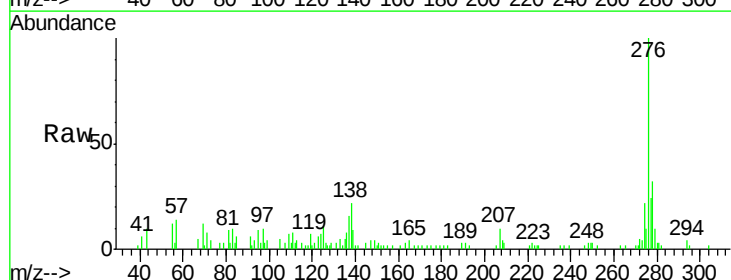
RT: 16.91 min Scan# 1297

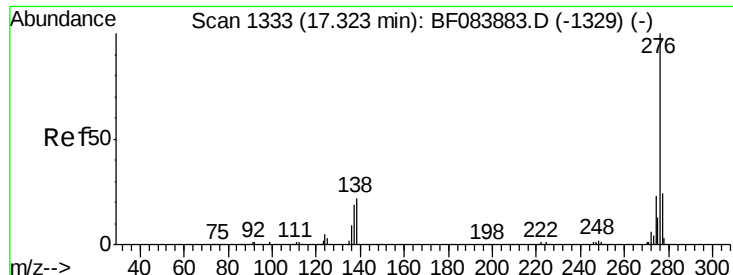
Delta R.T. 0.01 min

Lab File: BF083898.D

Acq: 18 Dec 2015 5:44

Tgt Ion:	278	Resp:	11371
Ion Ratio		Lower	Upper
278	100		
139	26.7	15.0	22.4#
279	30.8	18.9	28.3#





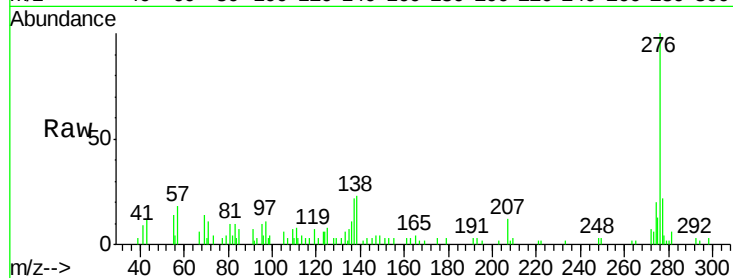
#91
Benzo(g,h,i)perylene
Concen: 7.10 ng
RT: 17.33 min Scan# 1334
Delta R.T. 0.01 min
Lab File: BF083898.D
Acq: 18 Dec 2015 5:44

Instrument :
BNA_F
ClientSampleId :
K211-13-14DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.8	28.2
138	23.1	17.8	26.6

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

