

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060816\
 Data File : BF087815.D
 Acq On : 8 Jun 2016 17:51
 Operator : UM/SJ
 Sample : H3378-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-14

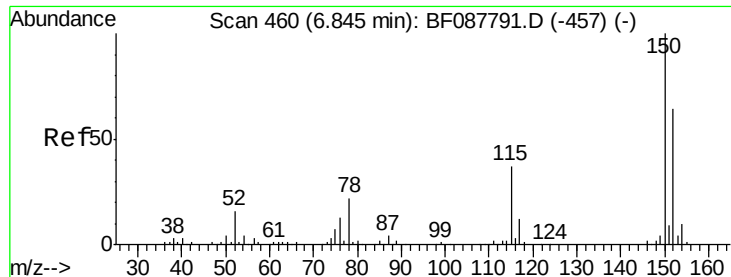
Manual Integrations
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Quant Time: Jun 09 14:15:09 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	108693m	20.00	ng	-0.02
21) Naphthalene-d8	8.11	136	444691	20.00	ng	-0.01
38) Acenaphthene-d10	9.87	164	197800	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	318883	20.00	ng	0.00
75) Chrysene-d12	14.00	240	223347	20.00	ng	0.01
86) Perylene-d12	15.43	264	235291	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	139134	21.88	ng	-0.02
7) Phenol-d6	6.44	99	166466	21.60	ng	-0.03
23) Nitrobenzene-d5	7.38	82	102173	13.42	ng	-0.03
41) 2,4,6-Tribromophenol	10.66	330	37951	18.17	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	208526	11.79	ng	-0.02
78) Terphenyl-d14	12.95	244	146988	14.98	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.14	128	1225644	55.70	ng	99
37) 2-Methylnaphthalene	8.82	142	267278m	18.43	ng	
48) Acenaphthylene	9.72	152	50763	2.49	ng	97
51) Acenaphthene	9.91	154	256573	20.20	ng	97
54) Dibenzofuran	10.08	168	385387	22.03	ng	100
57) Fluorene	10.42	166	498141	41.80	ng	99
70) Phenanthrene	11.39	178	1796235	107.35	ng	98
71) Anthracene	11.44	178	725069	42.96	ng	99
72) Carbazole	11.59	167	323420	20.48	ng	98
74) Fluoranthene	12.57	202	1388034	78.60	ng	98
77) Pyrene	12.80	202	1062716	64.12	ng	98
80) Benzo(a)anthracene	13.99	228	732408	57.54	ng	98
82) Chrysene	14.02	228	407413	34.02	ng	96
85) Indeno(1,2,3-cd)pyrene	16.81	276	253368	22.77	ng	# 100
87) Benzo(b)fluoranthene	15.02	252	591058m	36.04	ng	
88) Benzo(k)fluoranthene	15.03	252	305227m	24.67	ng	
89) Benzo(a)pyrene	15.37	252	495817	37.37	ng	96
90) Dibenzo(a,h)anthracene	16.82	278	64479m	5.23	ng	
91) Benzo(a,h,i)perylene	17.23	276	214618	16.93	ng	98

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



#1

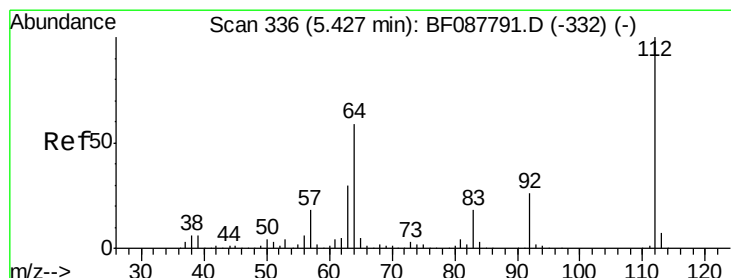
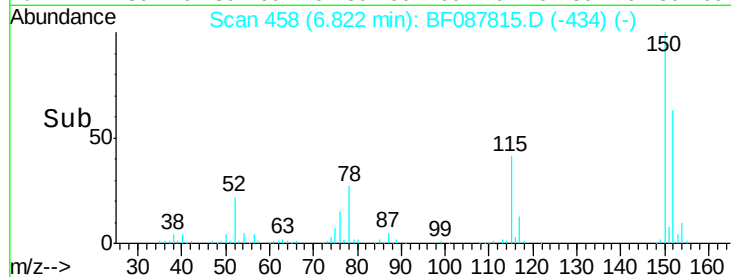
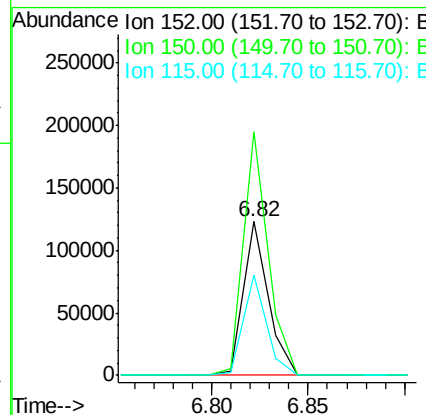
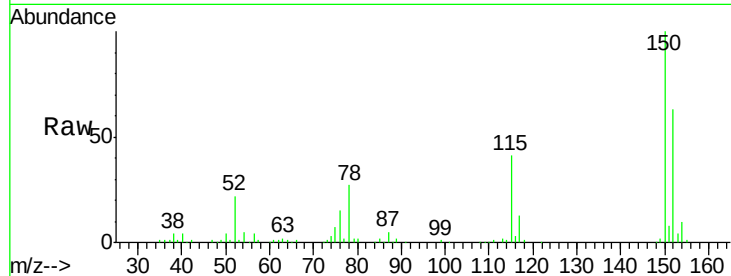
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/ml
RT: 6.82 min Scan# 458
Delta R.T. -0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampled :
SS-14

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
150	158.2	123.8	185.6	
115	65.4	39.6	59.4	

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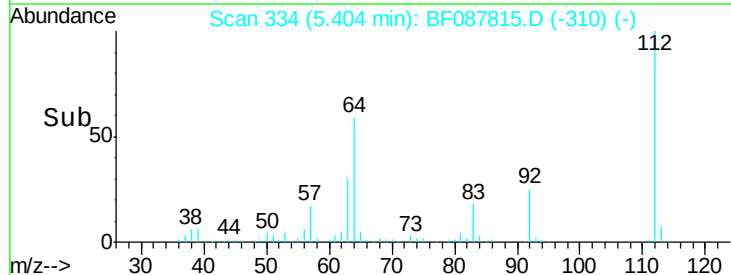
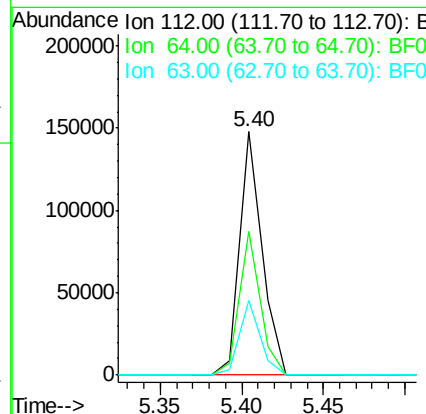
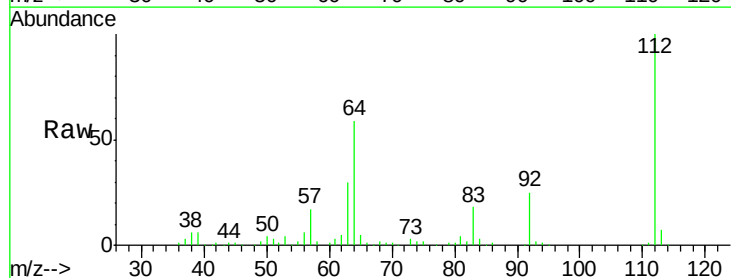
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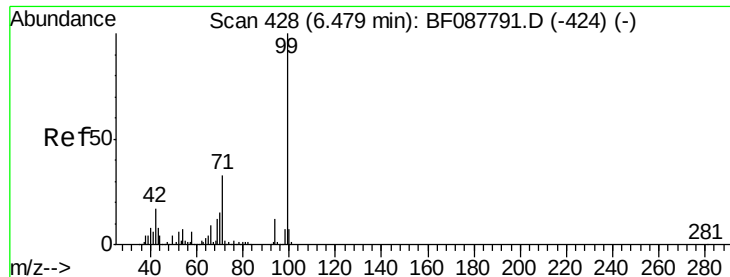


#5

2-Fluorophenol
Concen: 21.88 ng
RT: 5.40 min Scan# 334
Delta R.T. -0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
64	59.1	42.2	63.2	
63	30.4	21.8	32.8	





#7

Phenol-d6

Concen: 21.60 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.03 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Instrument :

BNA_F

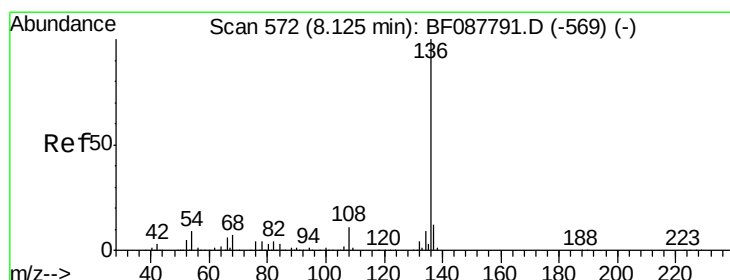
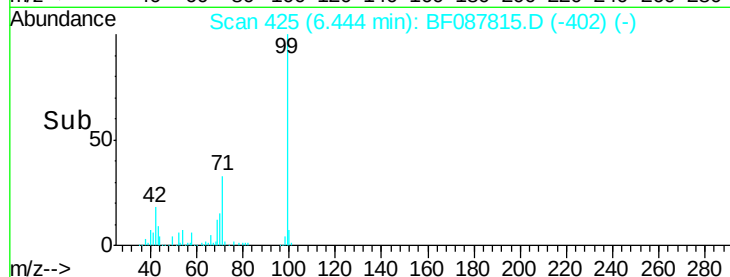
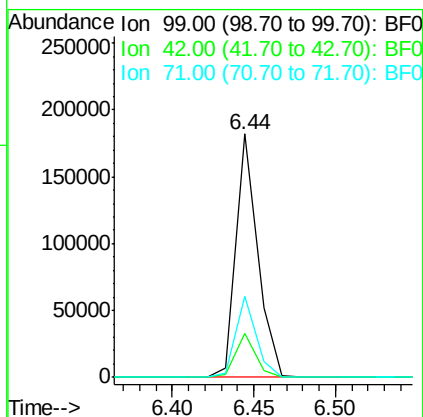
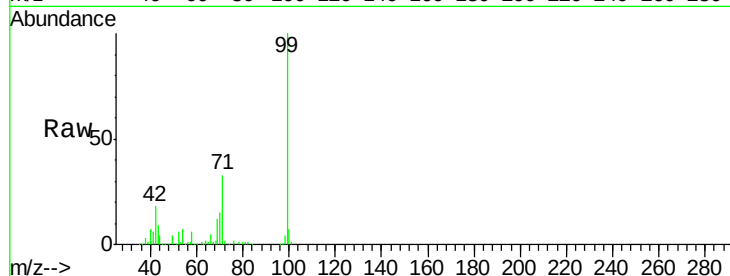
ClientSampleId :

SS-14

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		166466		
42	17.9	12.2	18.2		
71	33.4	23.4	35.0		

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#21

Naphthalene-d8

Concen: 20.00 ng

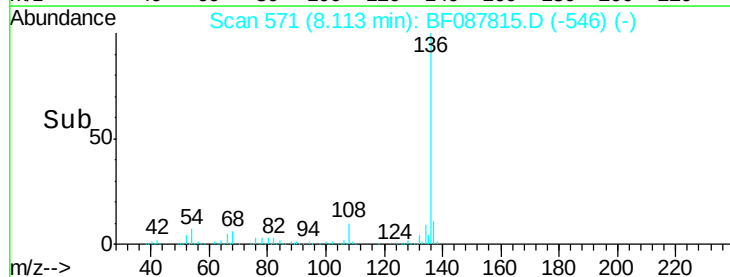
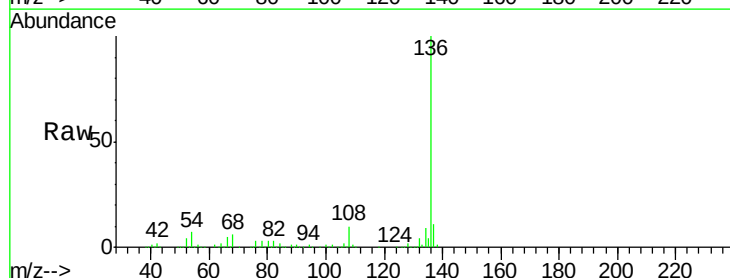
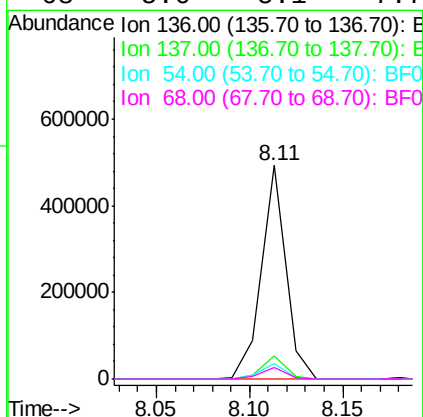
RT: 8.11 min Scan# 571

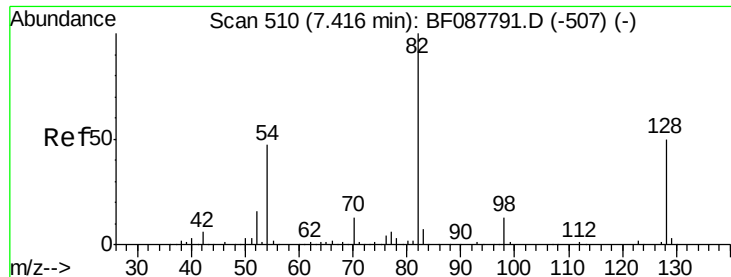
Delta R.T. -0.01 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		444691		
137	11.0	9.1	13.7		
54	7.0	6.6	10.0		
68	5.6	5.1	7.7		





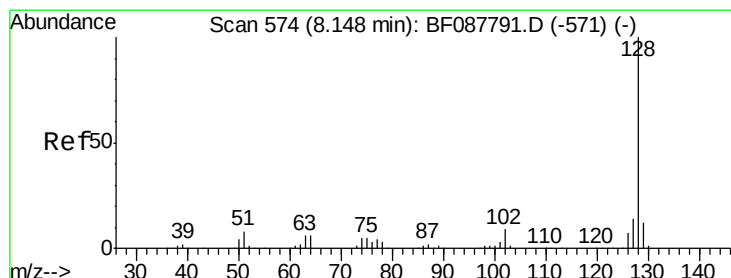
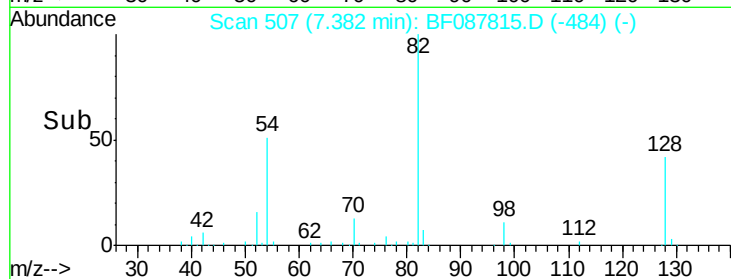
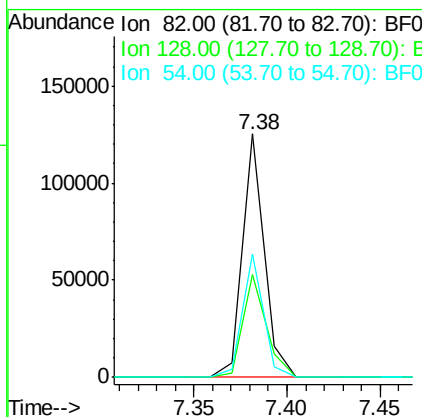
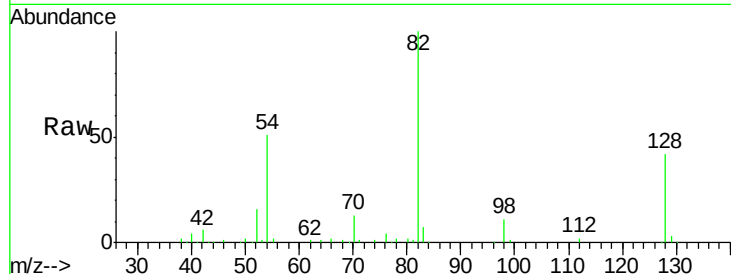
#23
 Nitrobenzene-d5
 Concen: 13.42 ng
 RT: 7.38 min Scan# 507
 Delta R.T. -0.03 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Instrument :
 BNA_F
 ClientSampled :
 SS-14

Tot Ion	82	Resp	102173
Ion	Ratio	Lower	Upper
82	100		
128	42.3	35.9	53.9
54	50.8	40.9	61.3

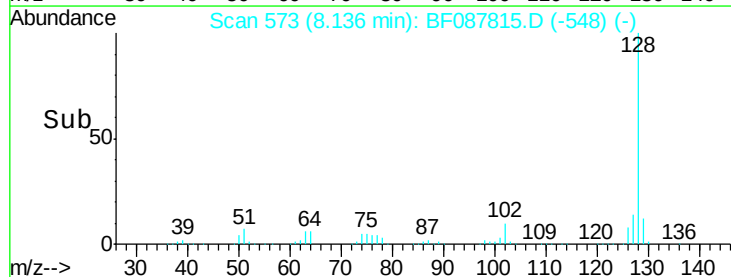
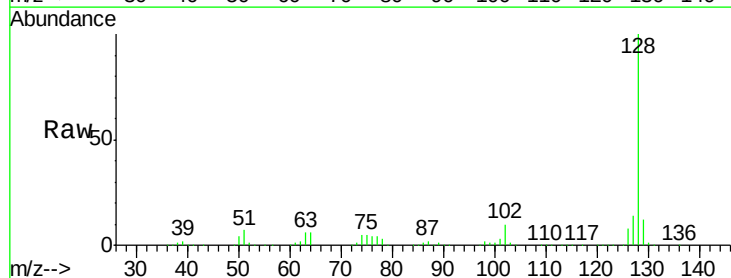
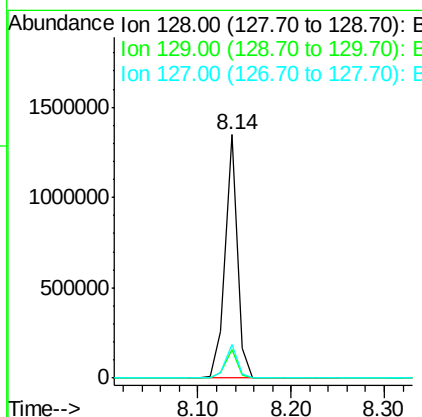
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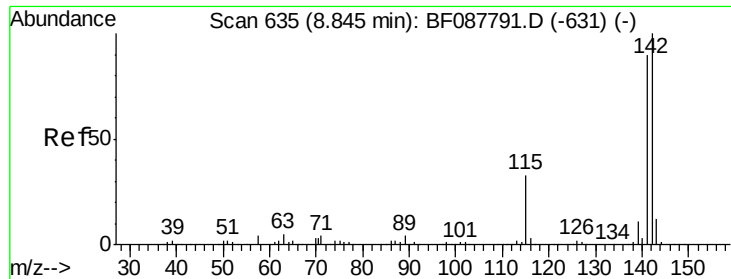
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#31
 Naphthalene
 Concen: 55.70 ng
 RT: 8.14 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Tgt Ion	128	Resp	1225644
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.4	14.2
127	13.9	10.9	16.3





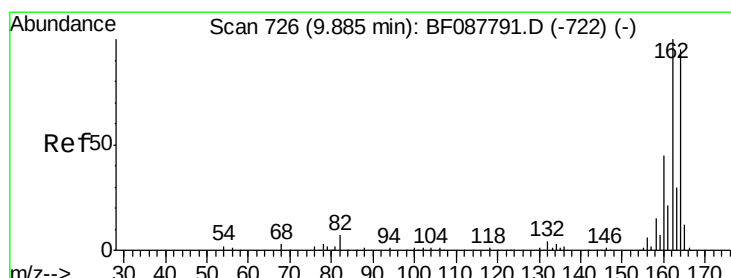
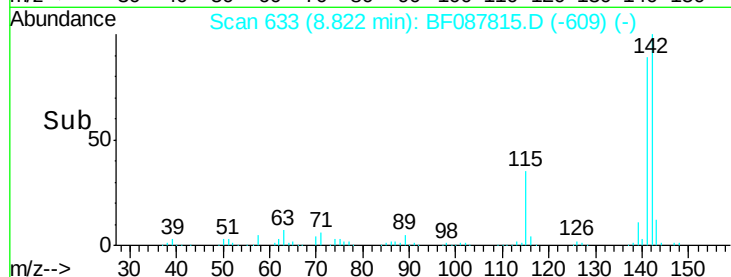
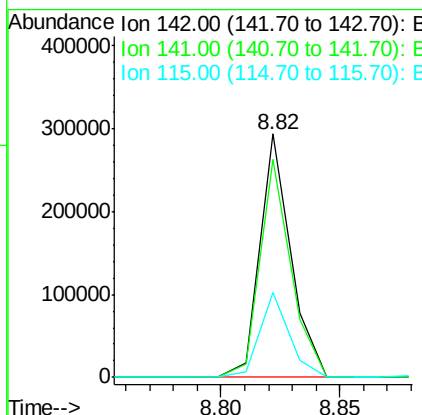
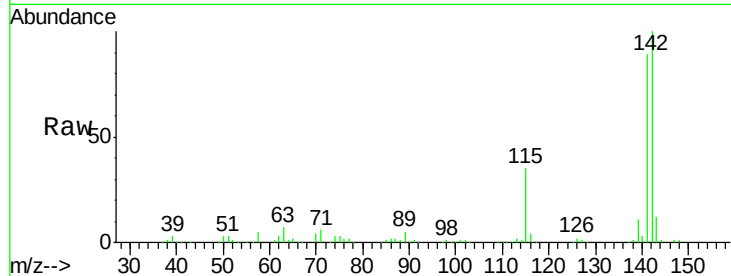
#37
 2-Methylnaphthalene
 Concen: 18.43 ng/ml
 RT: 8.82 min Scan# 633
 Delta R.T. -0.02 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Instrument :
 BNA_F
 ClientSampleId :
 SS-14

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.0	106.6
115	34.6	22.6	33.8

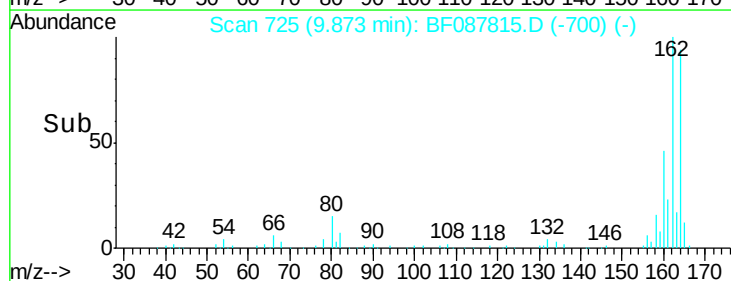
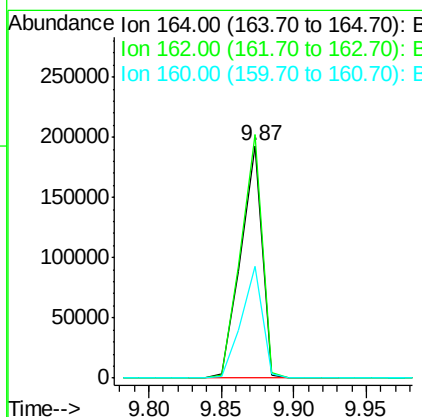
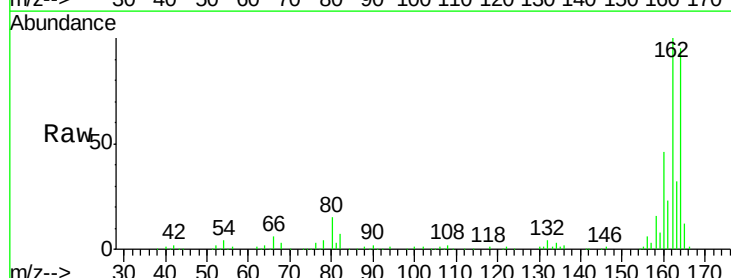
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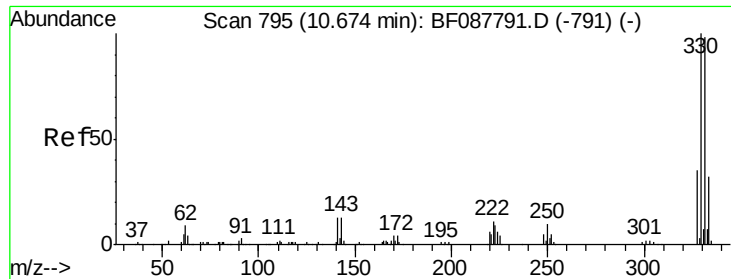
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.87 min Scan# 725
 Delta R.T. -0.01 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.9	85.4	128.2
160	48.1	39.5	59.3





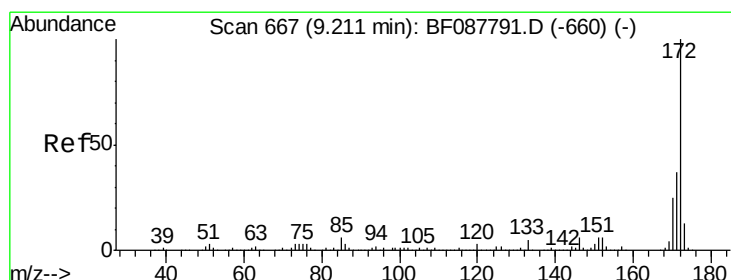
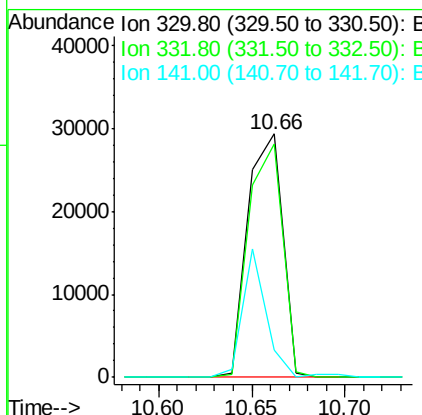
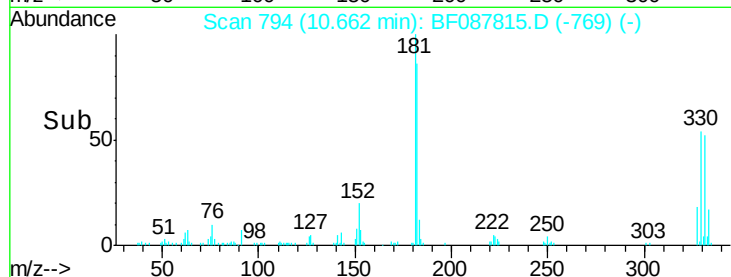
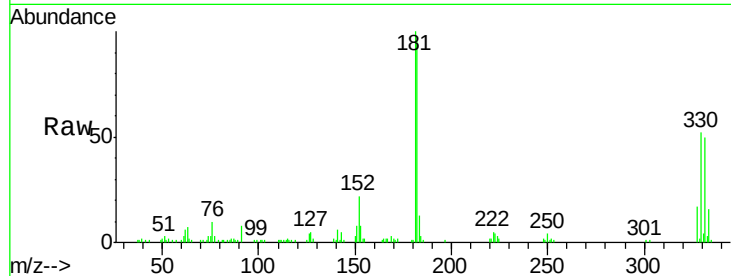
#41
 2,4,6-Tribromophenol
 Concen: 18.17 ng
 RT: 10.66 min Scan# 794
 Delta R.T. -0.01 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Instrument :
 BNA_F
 ClientSampled :
 SS-14

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	94.6	0.0	0.0#
141	36.9	0.0	0.0#

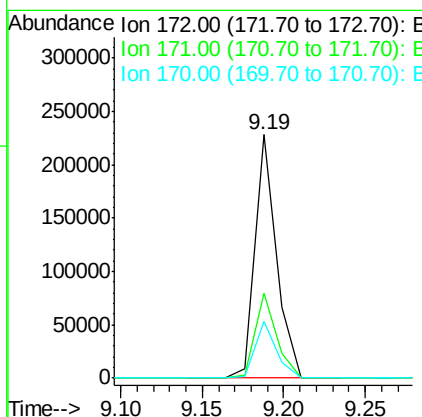
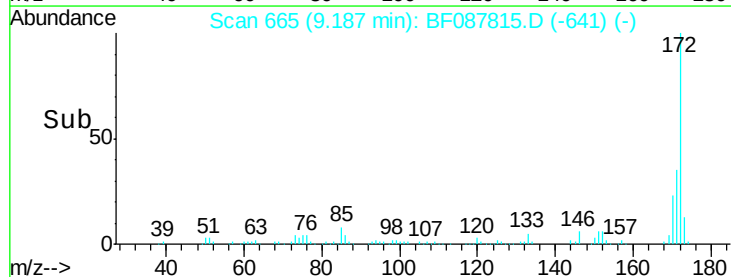
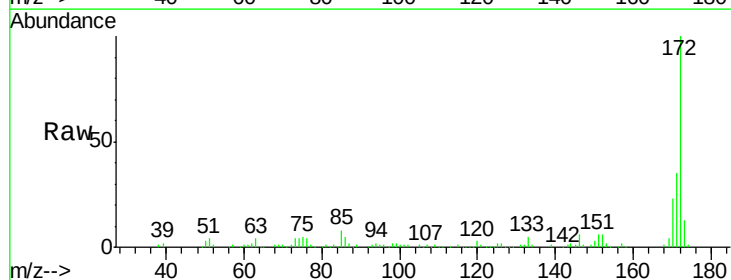
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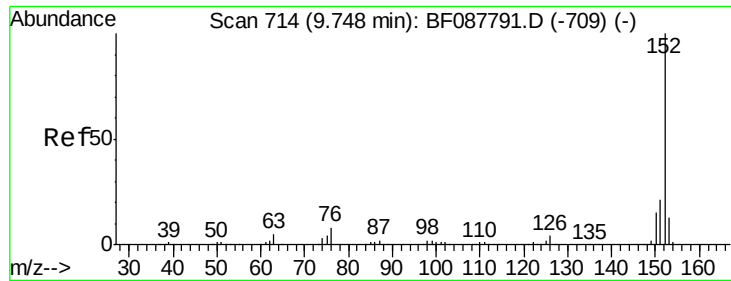
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#44
 2-Fluorobiphenyl
 Concen: 11.79 ng
 RT: 9.19 min Scan# 665
 Delta R.T. -0.02 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.1	28.6	43.0
170	23.2	19.2	28.8





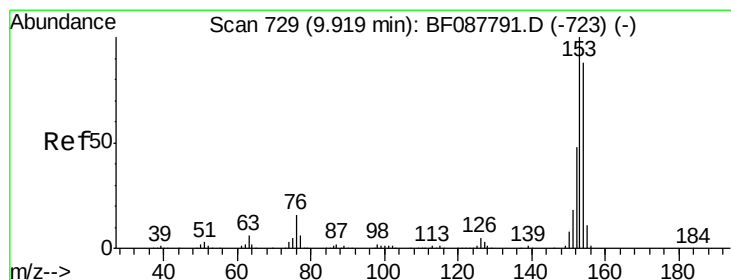
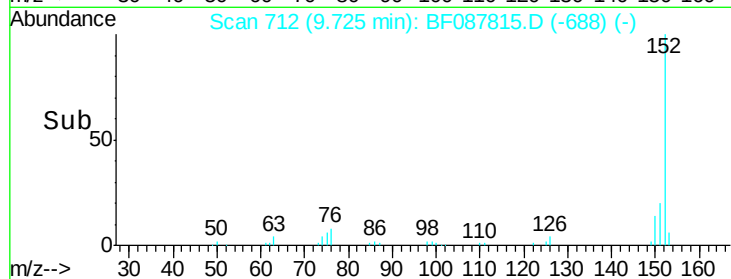
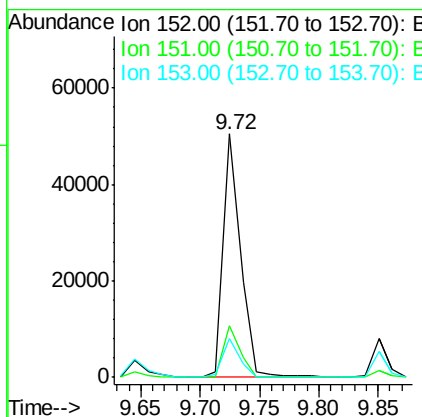
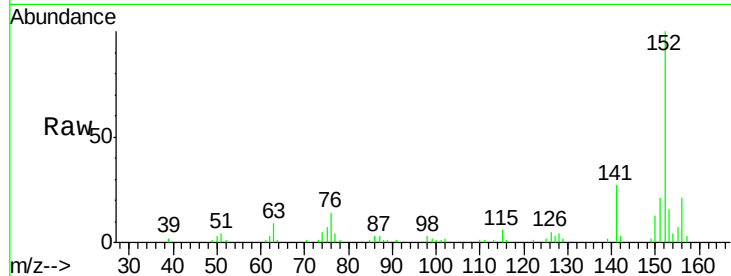
#48
Acenaphthylene
Concen: 2.49 ng
RT: 9.72 min Scan# 712
Delta R.T. -0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampleId :
SS-14

Tot Ion	Ion	Ratio	Resp	Lower	Upper
152	100		50763		
151	21.1	16.2	24.4		
153	16.1	11.0	16.6		

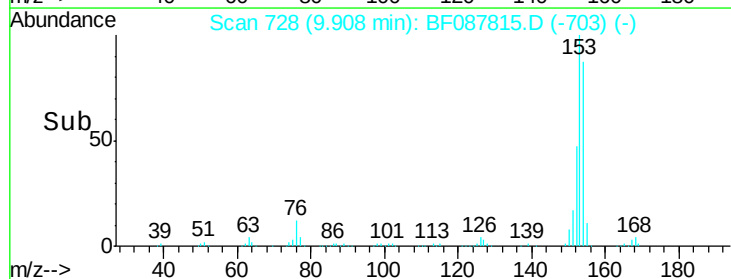
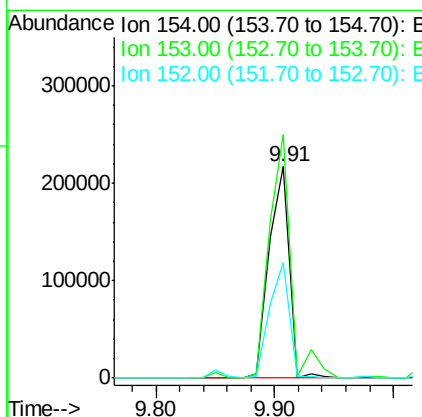
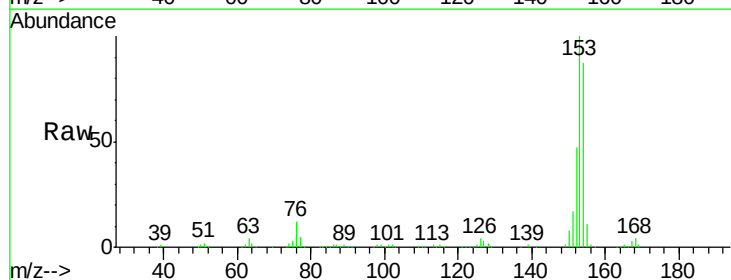
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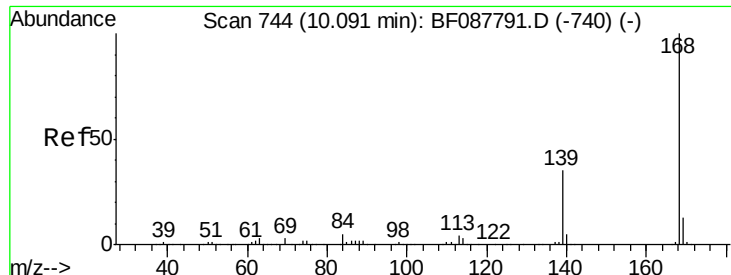
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#51
Acenaphthene
Concen: 20.20 ng
RT: 9.91 min Scan# 728
Delta R.T. -0.01 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100		256573		
153	115.1	89.5	134.3		
152	54.5	42.7	64.1		





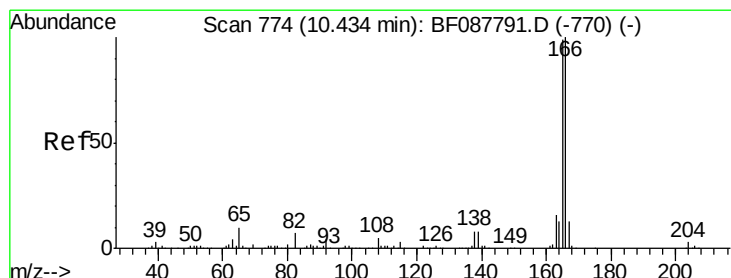
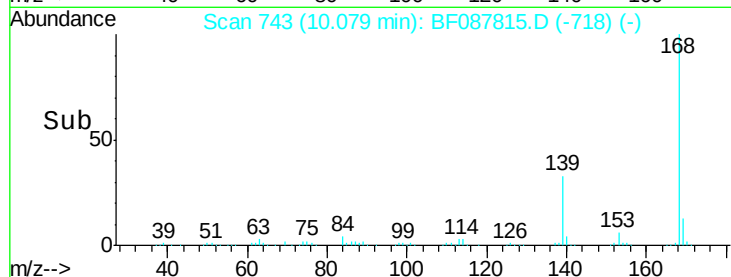
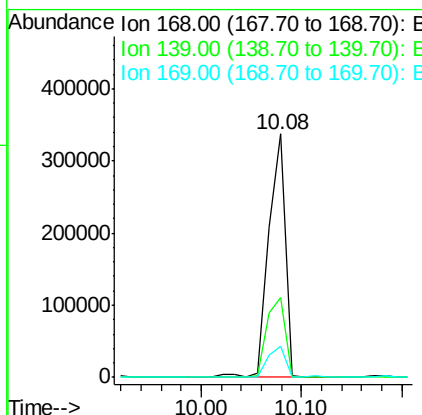
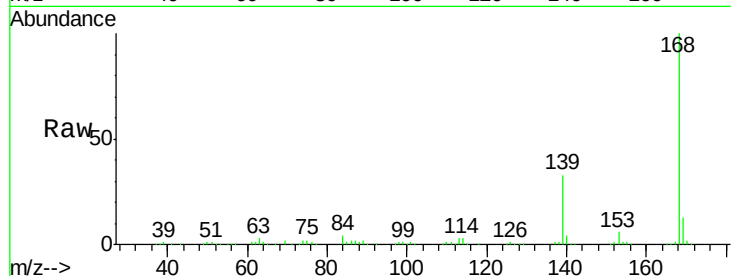
#54
Dibenzenofuran
Concen: 22.03 ng
RT: 10.08 min Scan# 743
Delta R.T. -0.01 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampleId :
SS-14

Tot Ion	Ratio	Lower	Upper
168	100		
139	32.7	26.4	39.6
169	12.9	10.4	15.6

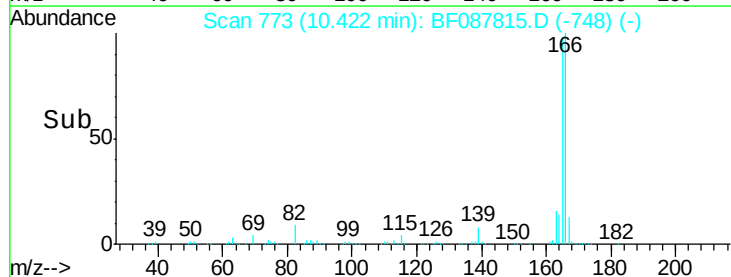
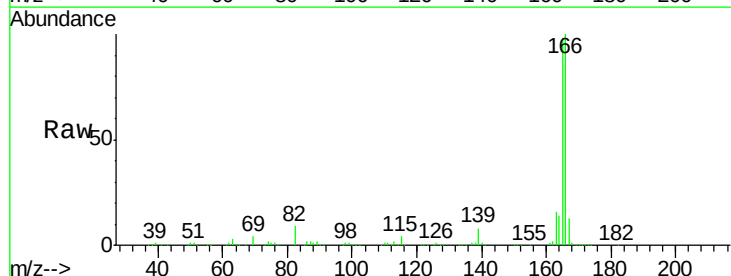
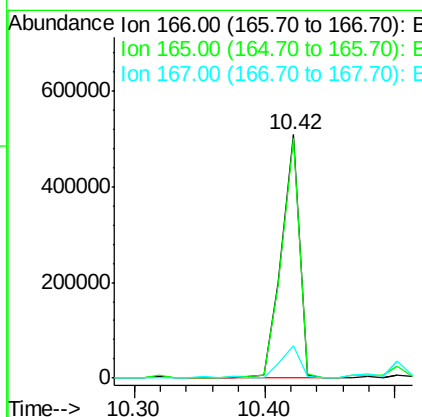
Manual Integrations
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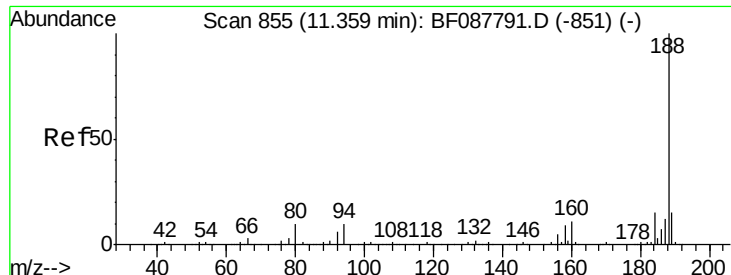
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#57
Fluorene
Concen: 41.80 ng
RT: 10.42 min Scan# 773
Delta R.T. -0.01 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.8	116.8
167	13.4	11.2	16.8





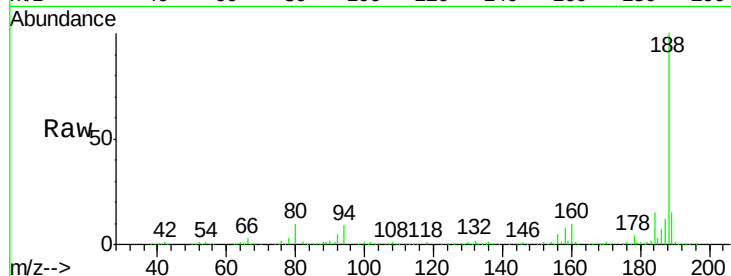
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 855
Delta R.T. -0.00 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampled :
SS-14

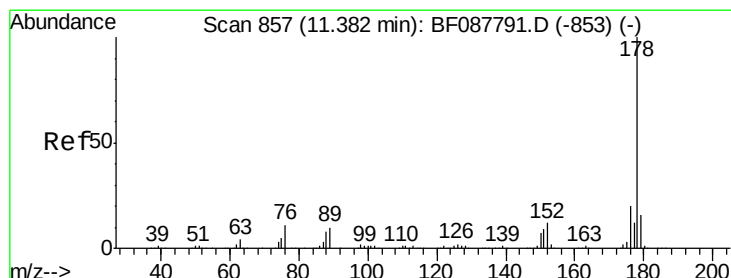
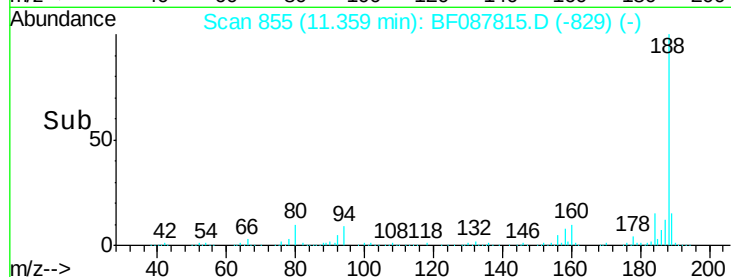
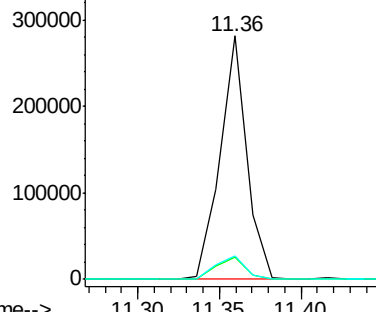
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.3	9.0	13.6
80	9.8	10.0	15.0#

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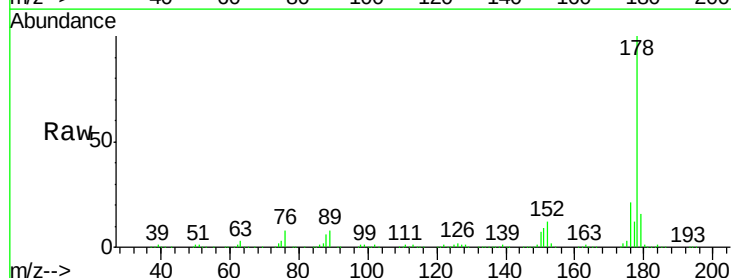


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

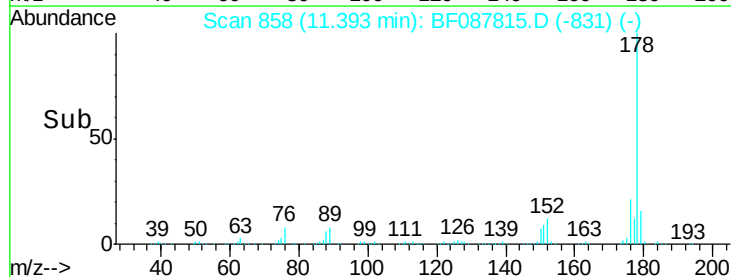
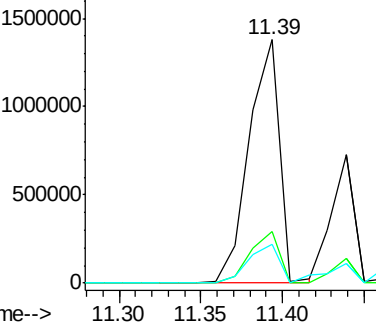


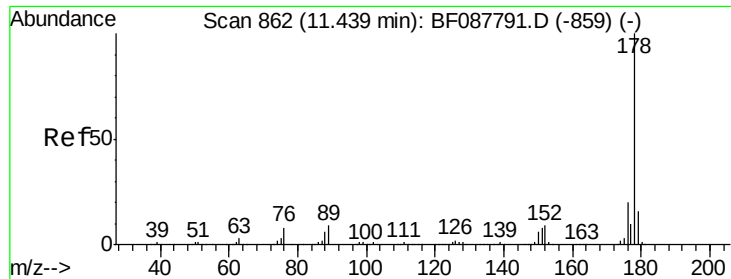
#70
Phenanthrene
Concen: 107.35 ng
RT: 11.39 min Scan# 858
Delta R.T. 0.01 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	21.0	15.8	23.6
179	15.9	13.0	19.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 42.96 ng

RT: 11.44 min Scan# 862

Delta R.T. -0.00 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Instrument :

BNA_F

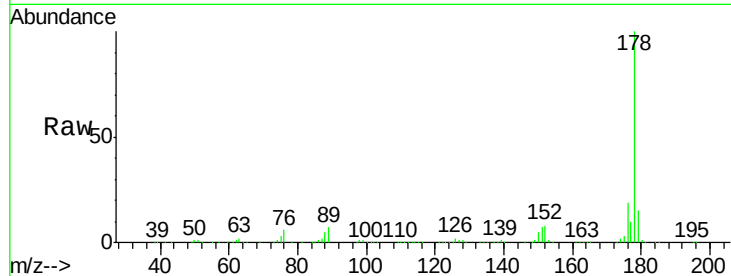
ClientSampled :

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Tot Ion:	178	Resp:	725069
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.6	23.4
179	15.5	12.8	19.2

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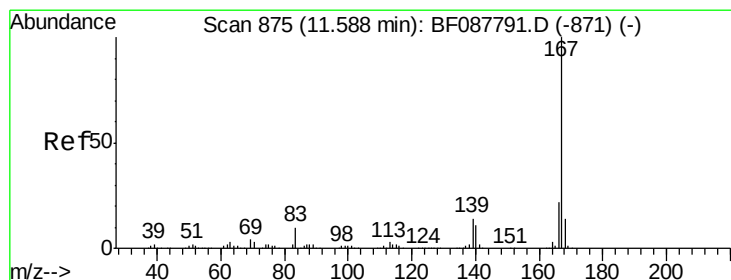
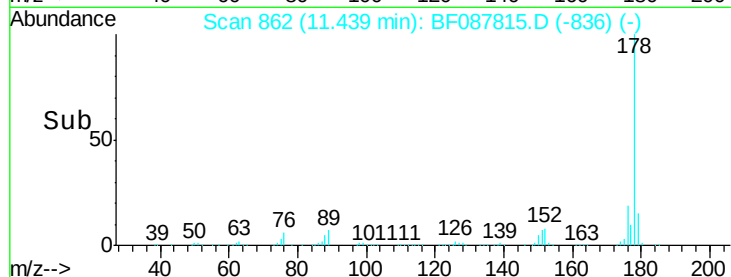
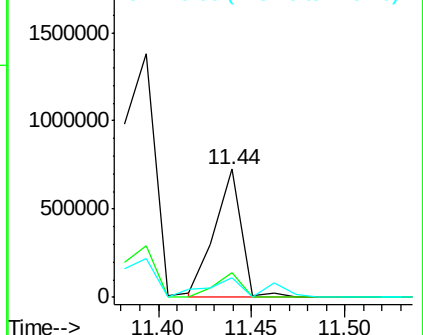
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 20.48 ng

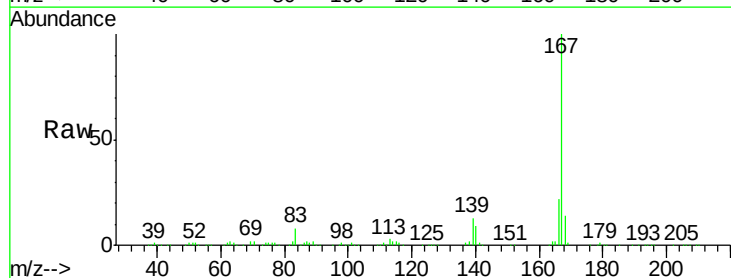
RT: 11.59 min Scan# 875

Delta R.T. -0.00 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

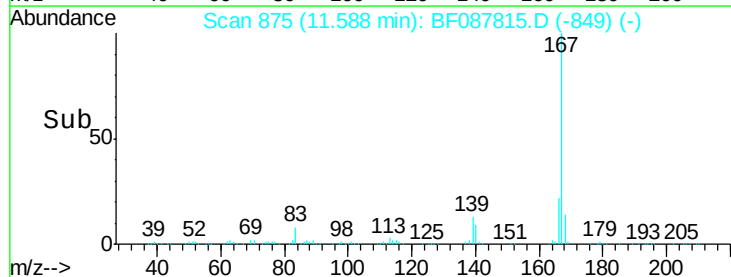
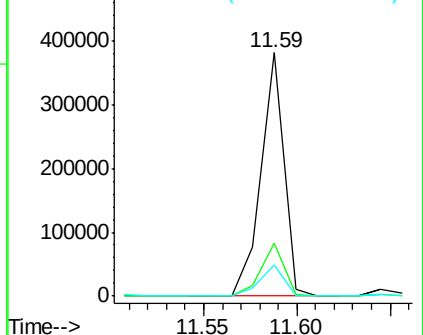
Tgt Ion:	167	Resp:	323420
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.8	26.6
139	12.7	11.2	16.8

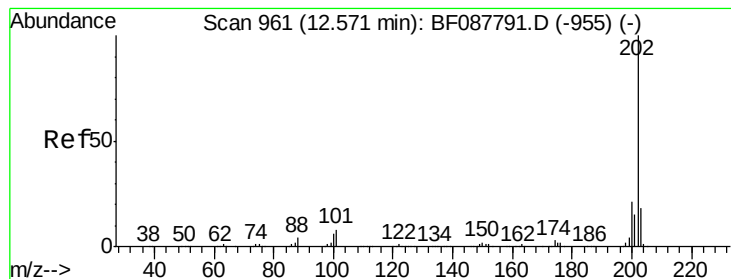


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





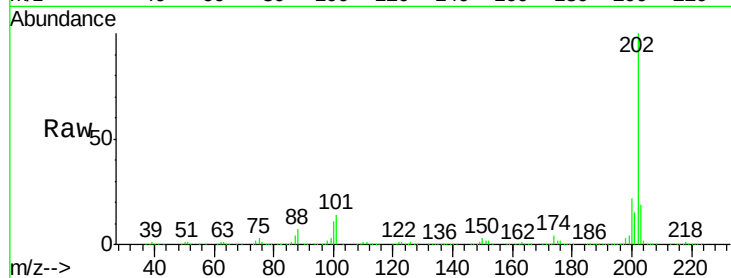
#74
Fluoranthene
Concen: 78.60 ng
RT: 12.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampled :
SS-14

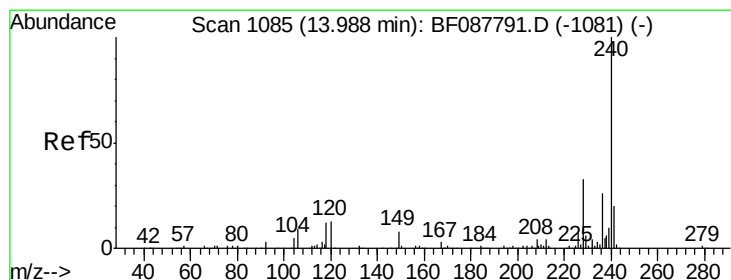
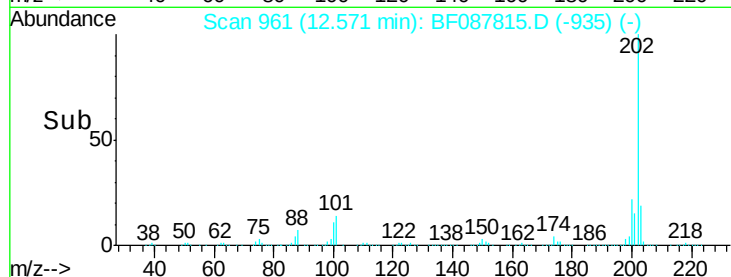
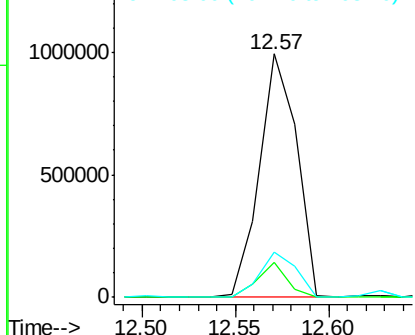
Tot Ion	Ratio	Lower	Upper
202	100		
101	14.5	0.0	33.1
203	18.7	0.0	38.1

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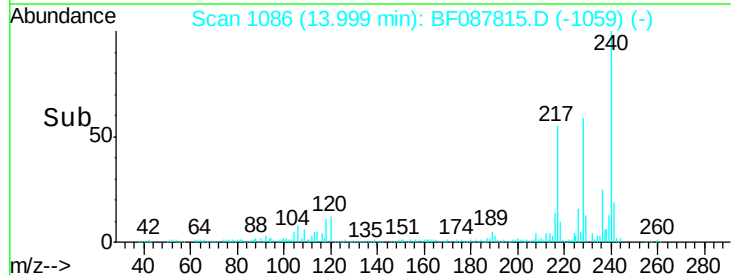
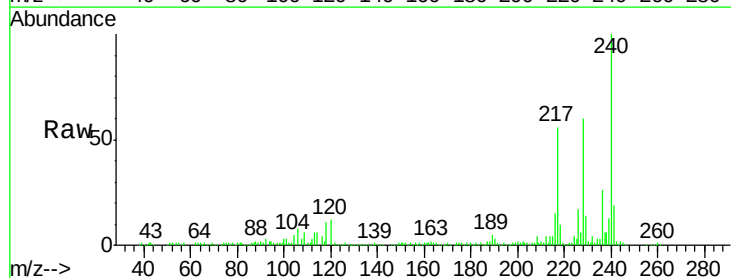
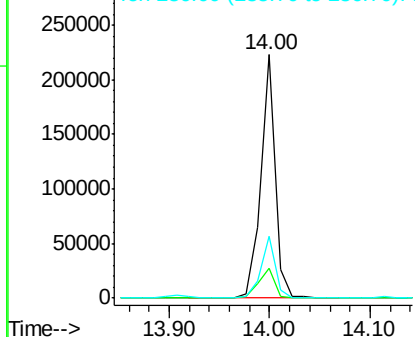
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

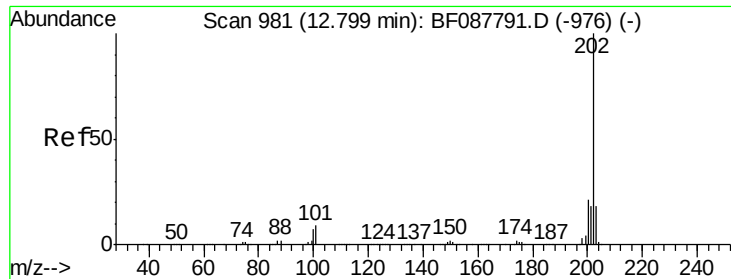


#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.00 min Scan# 1086
Delta R.T. 0.01 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.3	6.8	10.2#
236	25.6	20.2	30.2

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 64.12 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.00 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Instrument :

BNA_F

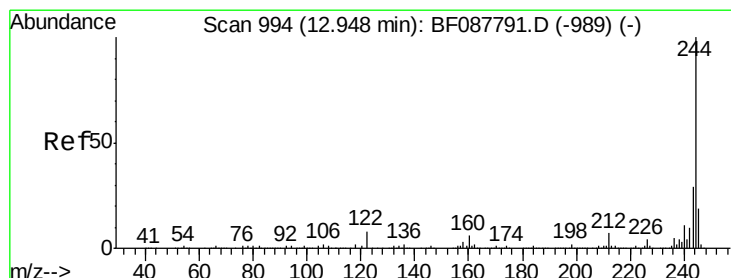
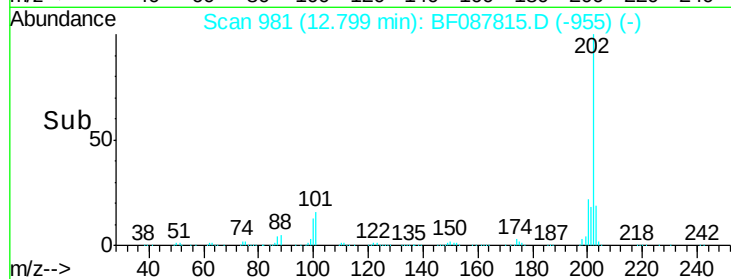
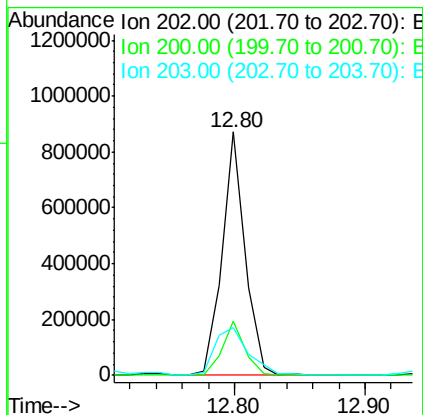
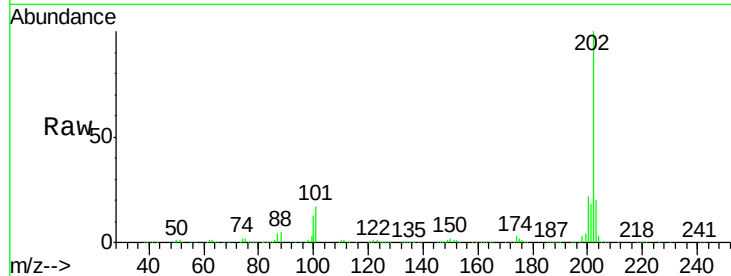
ClientSampled :

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Tot Ion:	202	Resp:	1062716
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.4	26.2
203	19.7	14.5	21.7

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#78

Terphenyl-d14

Concen: 14.98 ng

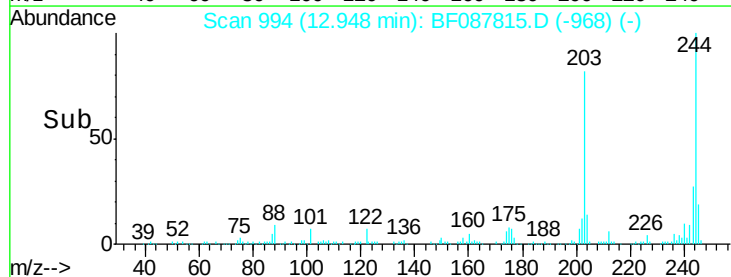
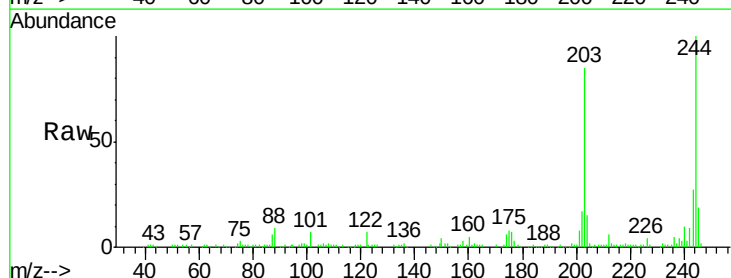
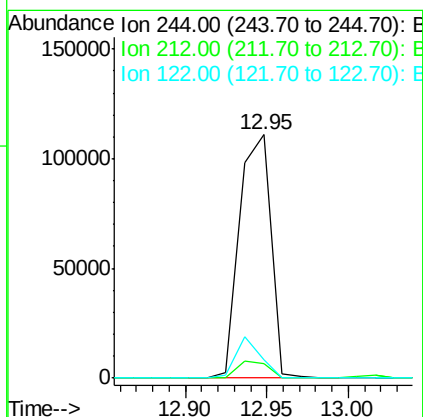
RT: 12.95 min Scan# 994

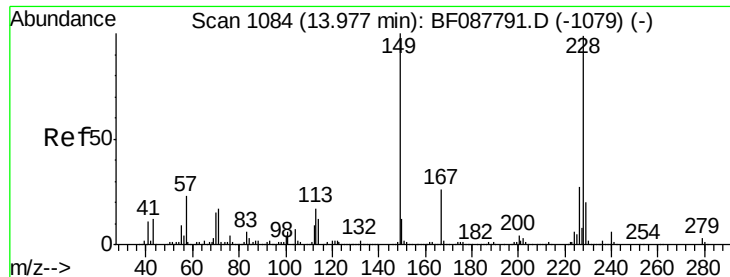
Delta R.T. -0.00 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Tgt Ion:	244	Resp:	146988
Ion Ratio	Lower	Upper	
244	100		
212	6.1	6.0	9.0
122	7.5	11.2	16.8#





#80

Benzo(a)anthracene

Concen: 57.54 ng

RT: 13.99 min Scan# 1085

Delta R.T. 0.01 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Instrument :

BNA_F

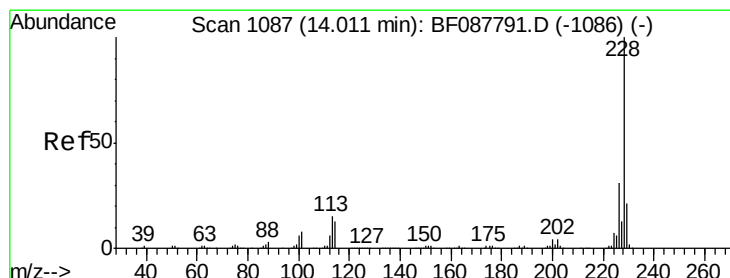
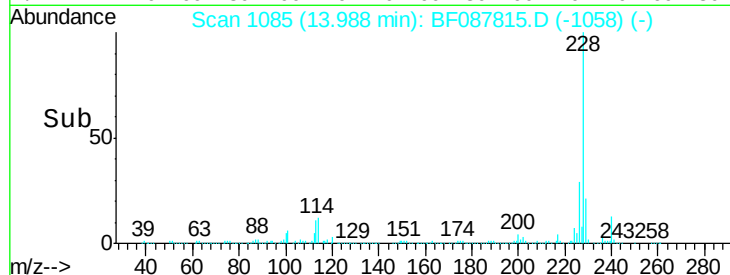
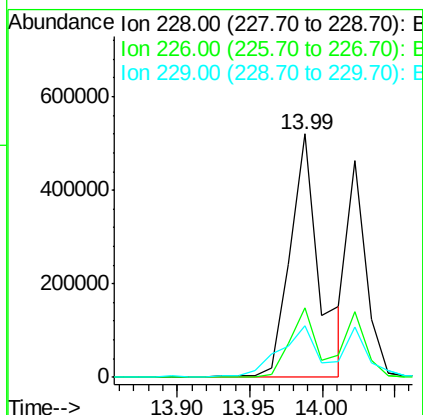
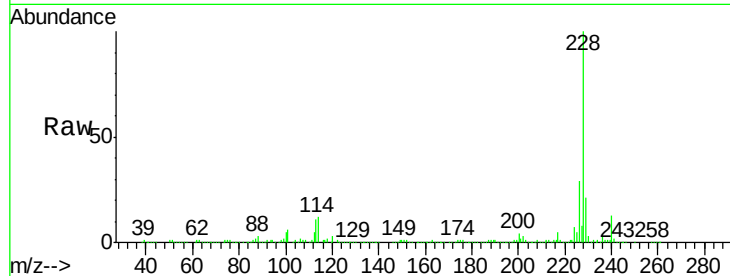
ClientSampled :

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Tot Ion:	228	Resp:	732408
Ion Ratio	Lower	Upper	
228	100		
226	28.7	22.3	33.5
229	21.0	16.0	24.0

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#82

Chrysene

Concen: 34.02 ng

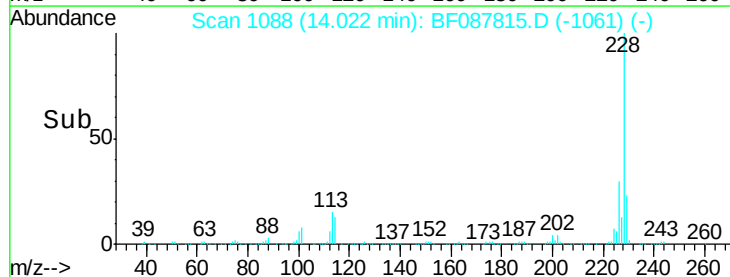
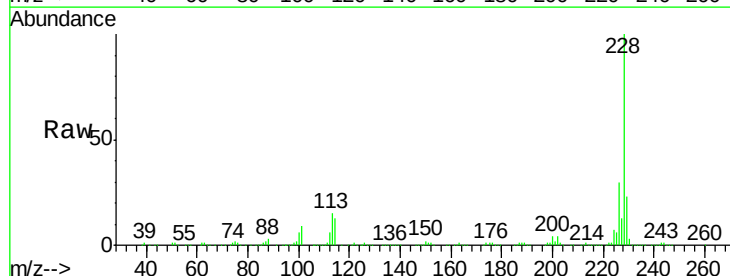
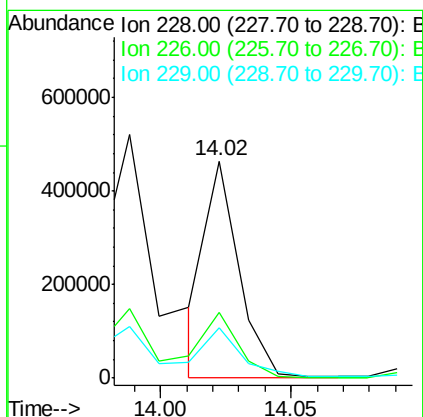
RT: 14.02 min Scan# 1088

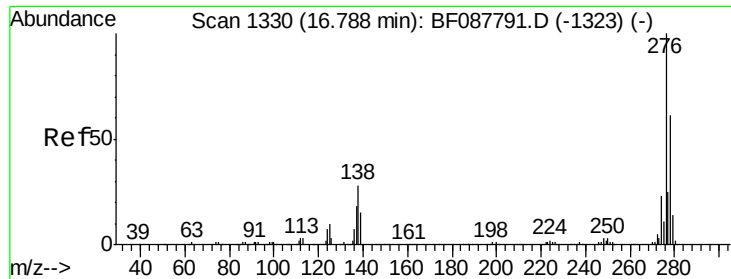
Delta R.T. 0.01 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Tgt Ion:	228	Resp:	407413
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.4	38.2
229	23.4	16.3	24.5





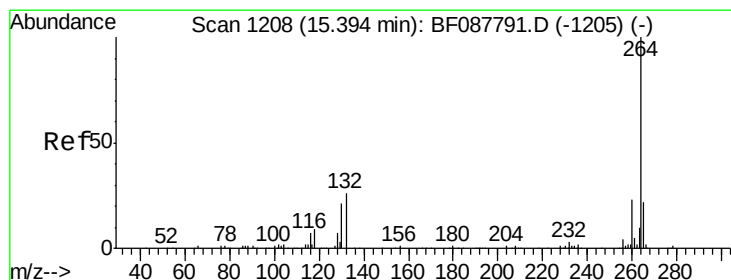
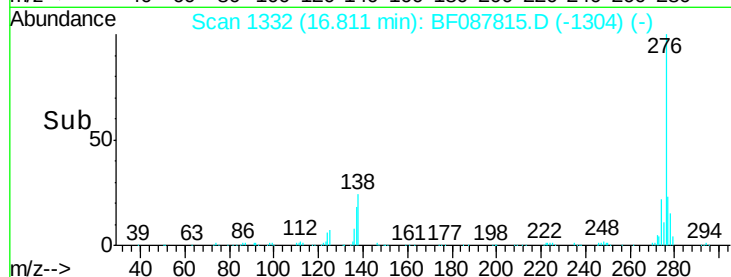
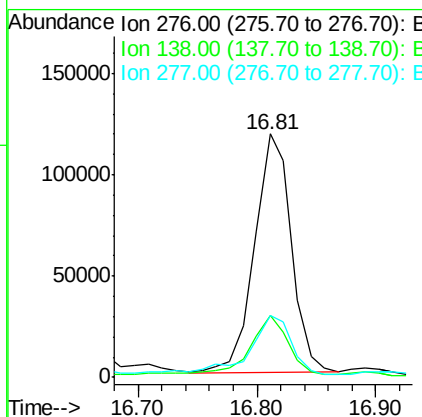
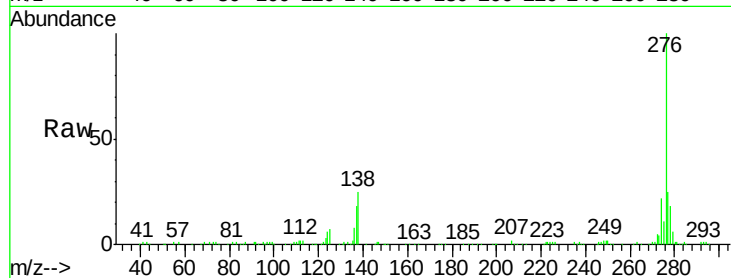
#85
Indeno(1,2,3-cd)pyrene
Concen: 22.77 ng
RT: 16.81 min Scan# 1332
Delta R.T. 0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	26.1	0.0	0.0#
277	29.9	0.0	0.0#

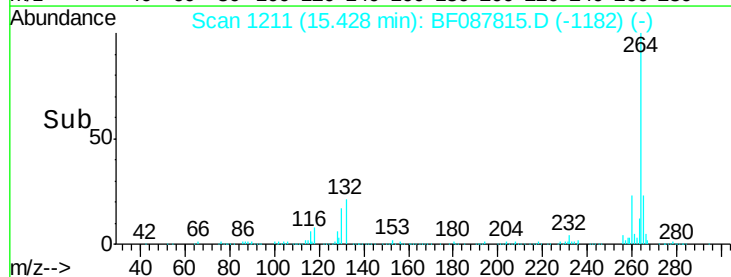
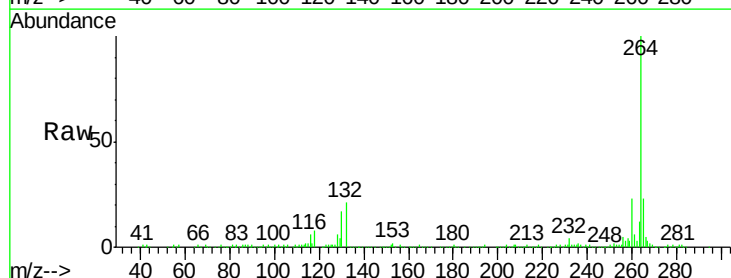
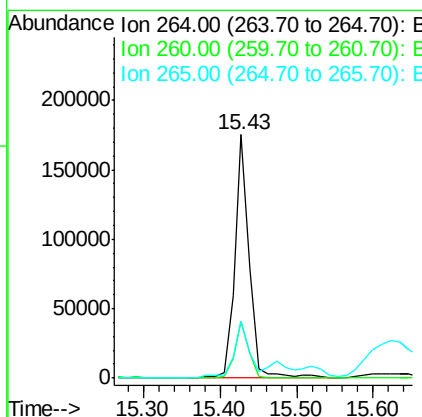
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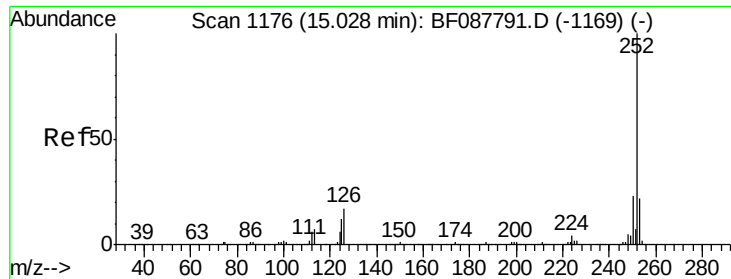
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1211
Delta R.T. 0.03 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.4	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 36.04 ng m

RT: 15.02 min Scan# 1175

Delta R.T. 0.02 min

Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Instrument :

BNA_F

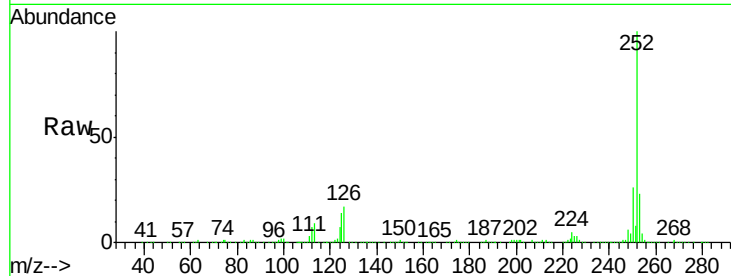
ClientSampled :

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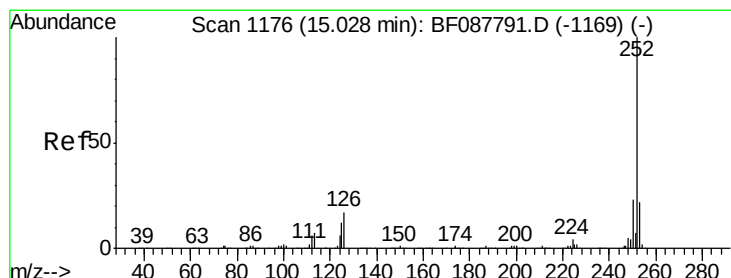
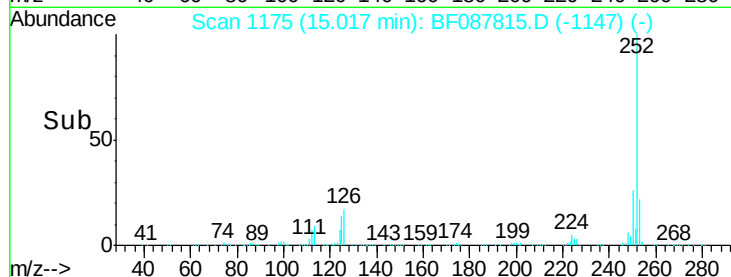
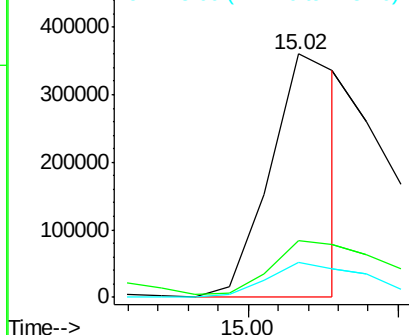
Tot Ion:	252	Resp:	591058
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.2
125	14.1	7.1	10.7#

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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: 24.67 ng m

RT: 15.03 min Scan# 1176

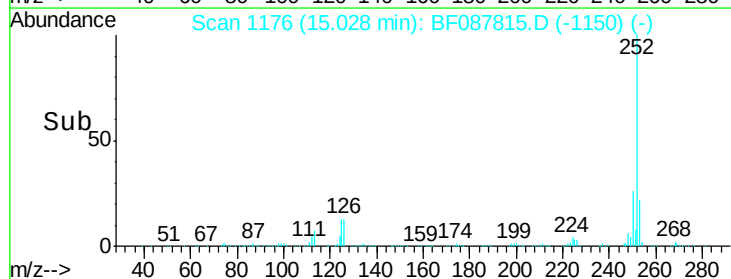
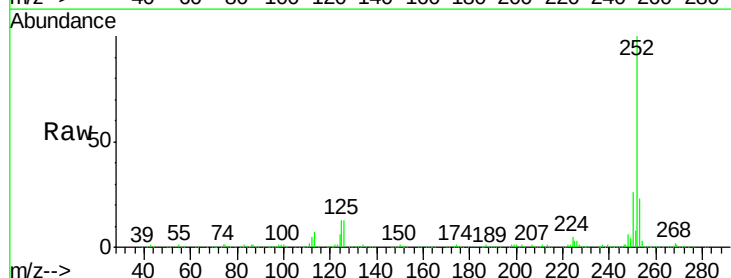
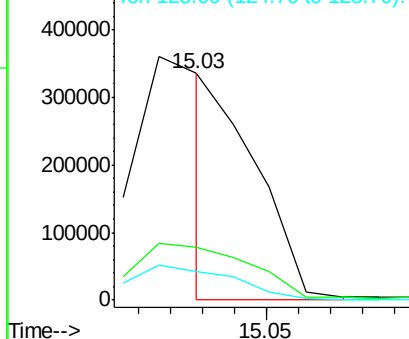
Delta R.T. -0.00 min

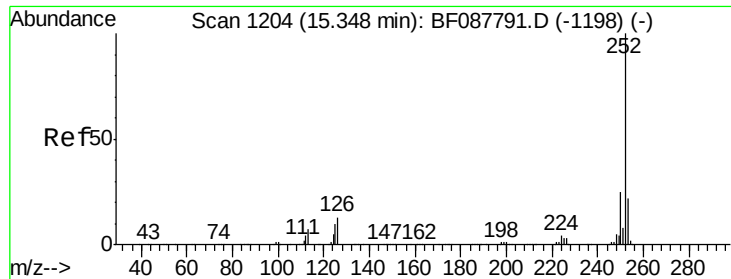
Lab File: BF087815.D

Acq: 8 Jun 2016 17:51

Tgt Ion:	252	Resp:	305227
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.0	27.0
125	12.8	11.2	16.8

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





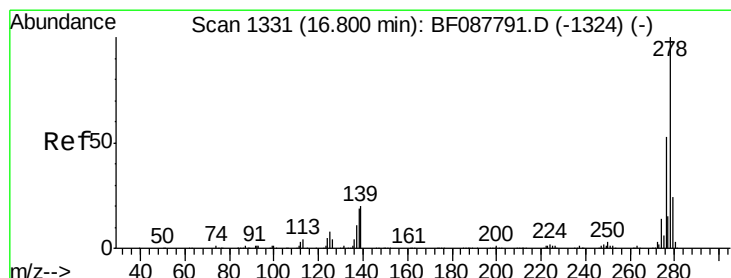
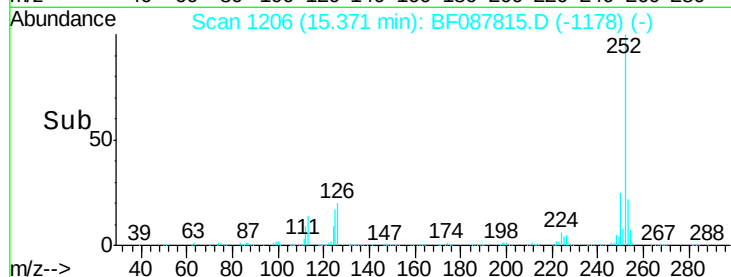
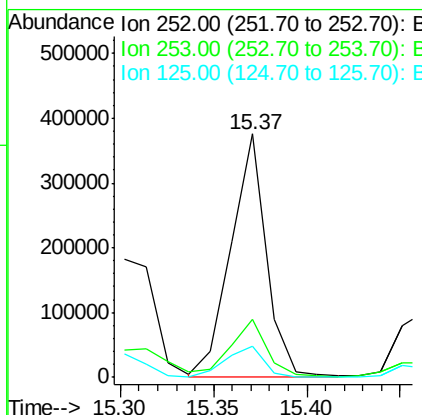
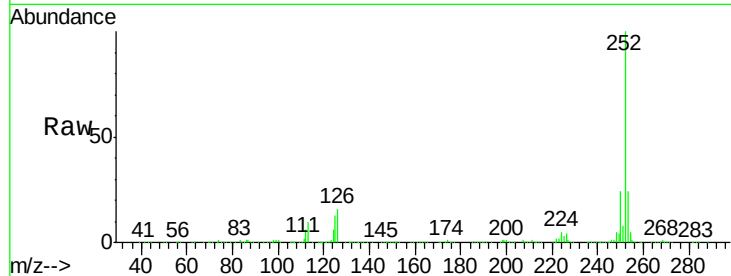
#89
Benzo(a)pyrene
Concen: 37.37 ng
RT: 15.37 min Scan# 1206
Delta R.T. 0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Instrument :
BNA_F
ClientSampled :
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Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	12.7	12.5	18.7

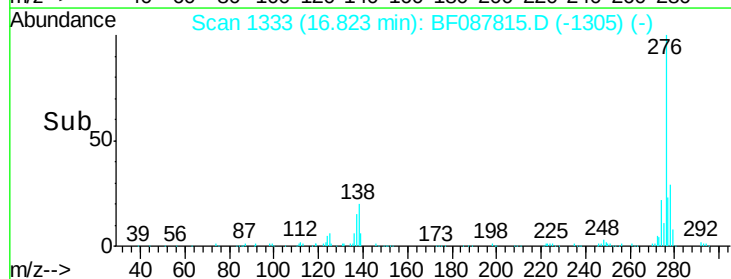
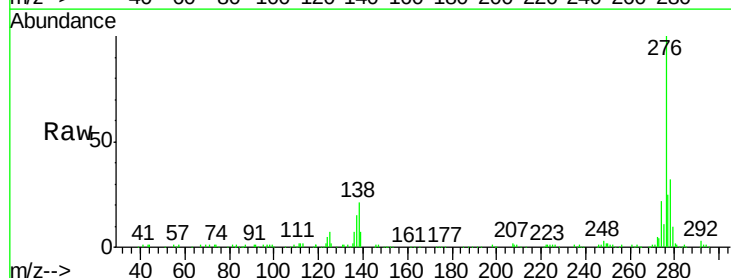
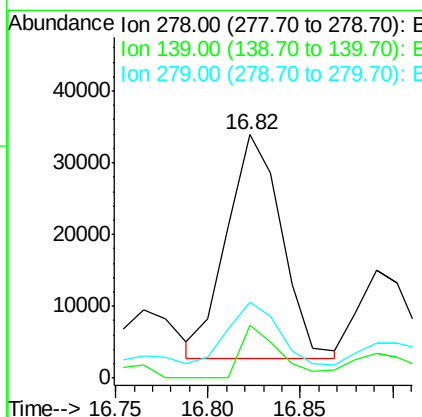
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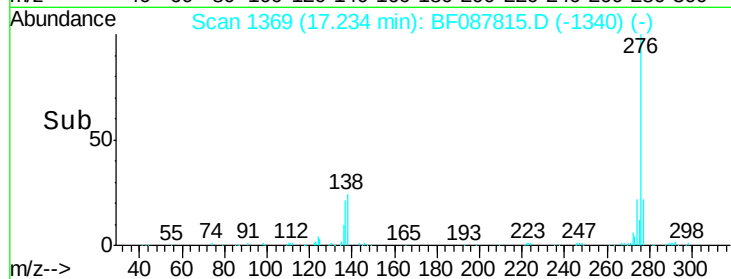
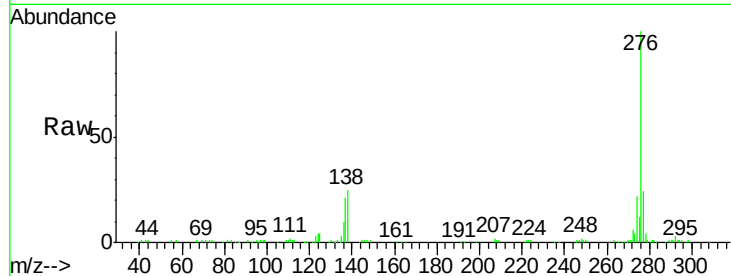
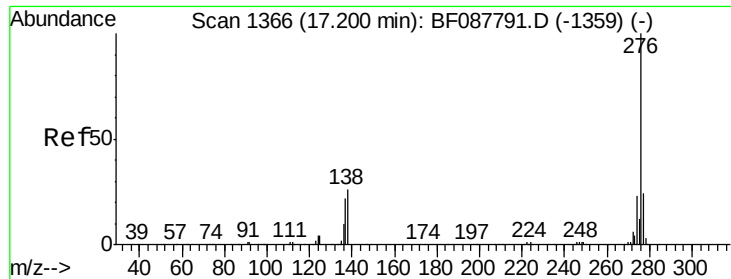
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#90
Dibenzo(a,h)anthracene
Concen: 5.23 ng m
RT: 16.82 min Scan# 1333
Delta R.T. 0.02 min
Lab File: BF087815.D
Acq: 8 Jun 2016 17:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.8	15.7	23.5
279	31.1	19.4	29.2





#91
 Benzo(a,h,i)perylene
 Concen: 16.93 ng
 RT: 17.23 min Scan# 1369
 Delta R.T. 0.03 min
 Lab File: BF087815.D
 Acq: 8 Jun 2016 17:51

Instrument :
 BNA_F
 ClientSampleId :
 SS-14

Tot Ion:	276	Resp:	214618
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.9	28.3
138	25.0	21.4	32.2

Manual Integrations
 APPROVED

sohil
 6/9/2016 8:02:50 PM

