

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090515\
 Data File : BF081504.D
 Acq On : 6 Sep 2015 12:14
 Operator : UM/IZ
 Sample : G3555-12
 Misc :
 ALS Vial : 79 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

Manual Integrations
 APPROVED

MMDadoda
 9/8/2015 3:58:00 PM

Quant Time: Sep 07 08:55:50 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 07 05:41:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	50260	20.00	ng	-0.01
21) Naphthalene-d8	7.64	136	194072	20.00	ng	-0.01
38) Acenaphthene-d10	9.38	164	84926	20.00	ng	-0.01
63) Phenanthrene-d10	10.86	188	162563	20.00	ng	0.00
75) Chrysene-d12	13.46	240	90559	20.00	ng	0.00
86) Perylene-d12	14.78	264	90793	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.90	112	353916	109.25	ng	0.01
7) Phenol-d6	6.03	99	524131	122.23	ng	0.00
23) Nitrobenzene-d5	6.94	82	338769	84.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.17	330	80447	106.39	ng	-0.01
44) 2-Fluorobiphenyl	8.73	172	505950	76.34	ng	-0.01
78) Terphenyl-d14	12.43	244	296071	76.11	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.67	128	53752	5.19	ng	98
37) 2-Methylnaphthalene	8.36	142	22960	3.41	ng	# 89
48) Acenaphthylene	9.24	152	28098	2.81	ng	# 95
49) Dimethylphthalate	9.13	163	122321	18.54	ng	# 97
51) Acenaphthene	9.42	154	55208	9.69	ng	93
54) Dibenzofuran	9.59	168	75619	9.09	ng	# 81
57) Fluorene	9.93	166	56395	8.94	ng	# 96
70) Phenanthrene	10.89	178	1171438	129.62	ng	96
71) Anthracene	10.92	178	226541	24.40	ng	97
72) Carbazole	11.10	167	78246	8.98	ng	98
74) Fluoranthene	12.06	202	926220	94.67	ng	91
77) Pyrene	12.29	202	956357	142.57	ng	98
80) Benzo(a)anthracene	13.45	228	334164	57.94	ng	93
82) Chrysene	13.49	228	243462m	47.09	ng	
85) Indeno(1,2,3-cd)pyrene	15.85	276	123626	32.59	ng	# 81
87) Benzo(b)fluoranthene	14.45	252	262210m	40.45	ng	
88) Benzo(k)fluoranthene	14.46	252	106587m	19.82	ng	
89) Benzo(a)pyrene	14.73	252	226385	41.22	ng	# 82
90) Dibenzo(a,h)anthracene	15.85	278	29329m	6.91	ng	
91) Benzo(g,h,i)perylene	16.17	276	107522	26.54	ng	# 72

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

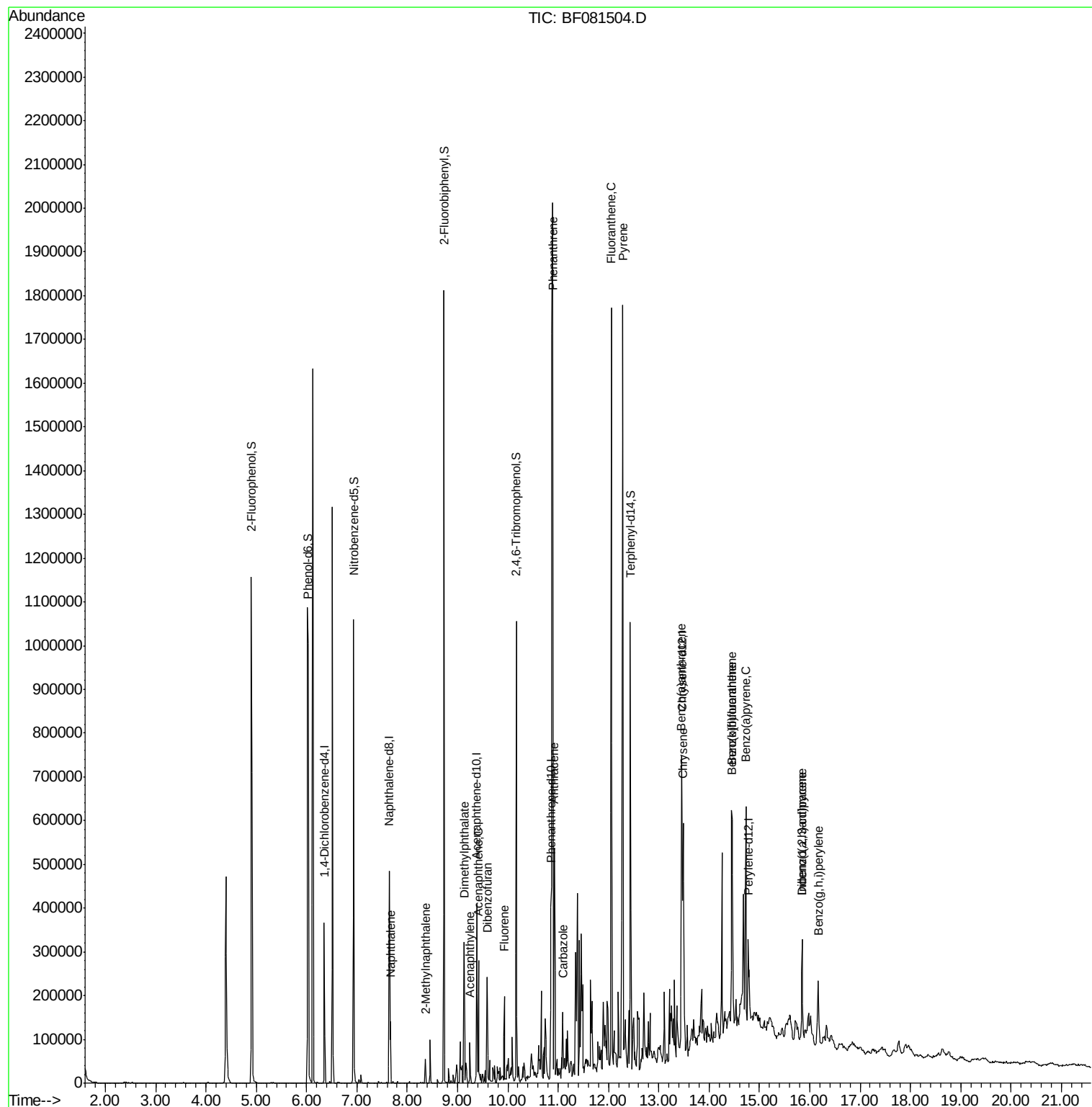
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090515\
Data File : BF081504.D
Acq On : 6 Sep 2015 12:14
Operator : UM/IZ
Sample : G3555-12
Misc :
ALS Vial : 79 Sample Multiplier: 1

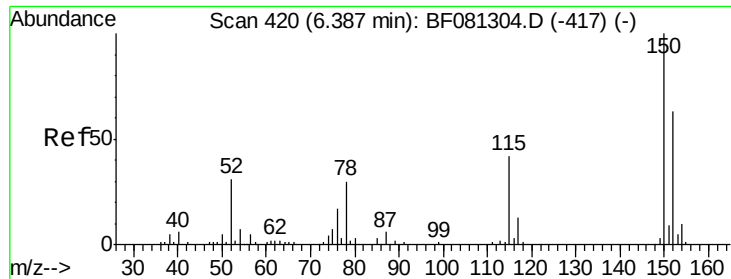
Instrument :
BNA_F
ClientSampleId :
COMP-2

Manual Integrations
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

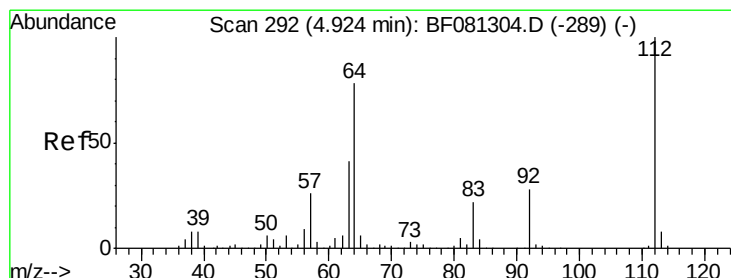
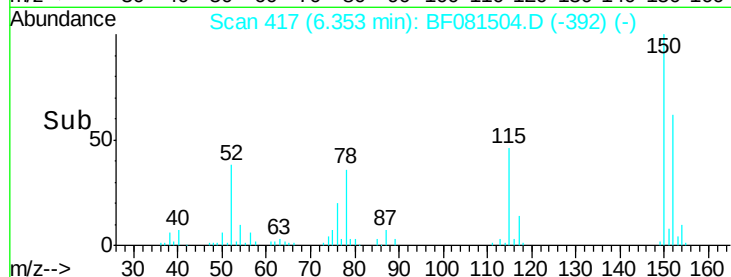
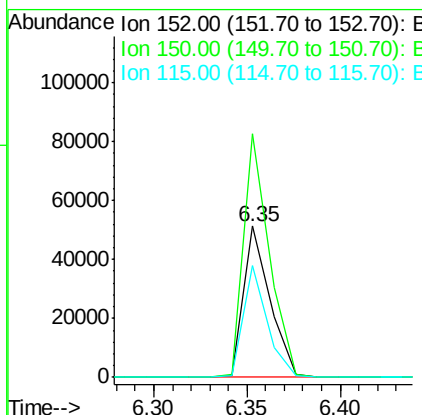
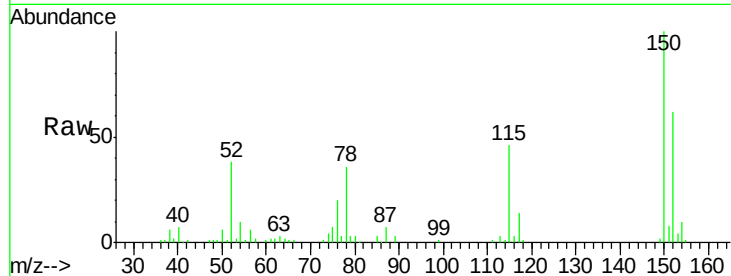
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.35 min Scan# 417
Delta R.T. -0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Instrument :
BNA_F
ClientSampleId :
COMP-2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.2	124.7	187.1
115	74.2	39.0	58.4#

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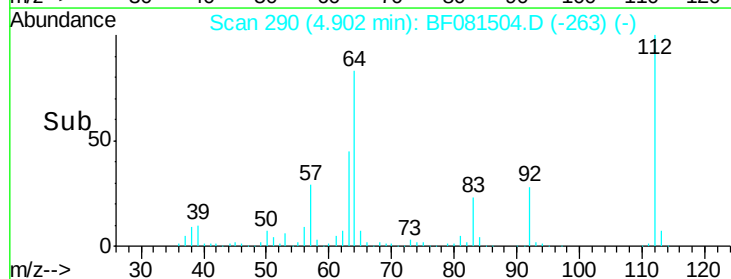
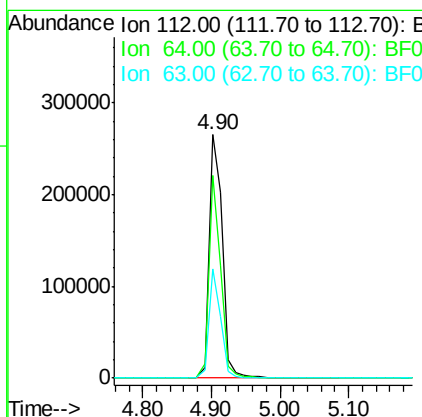
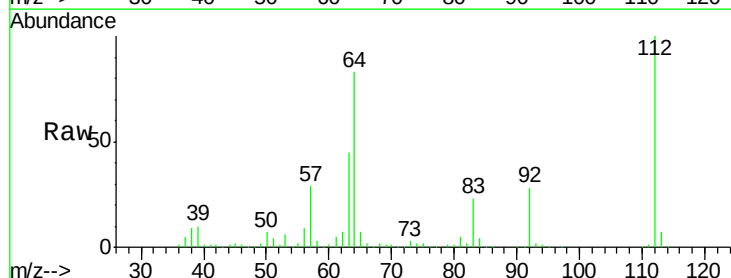
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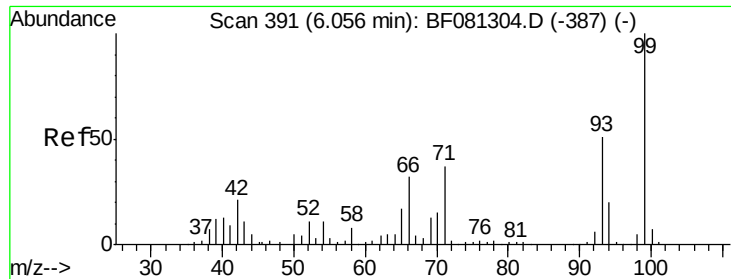


#5

2-Fluorophenol
Concen: 109.25 ng
RT: 4.90 min Scan# 290
Delta R.T. 0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	83.2	39.7	59.5#
63	44.8	17.4	26.0#





#7

Phenol-d6

Concen: 122.23 ng

RT: 6.03 min Scan# 389

Delta R.T. 0.00 min

Lab File: BF081504.D

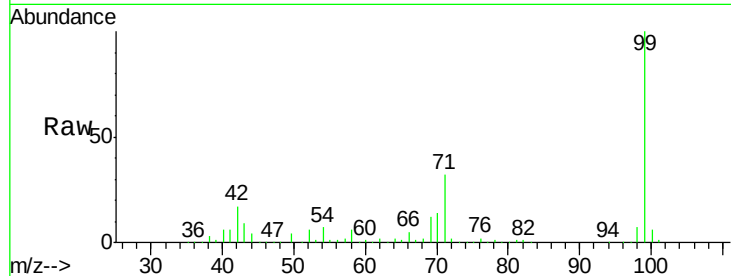
Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

ClientSampleId :

COMP-2



Tgt Ion: 99 Resp: 524131

Ion Ratio Lower Upper

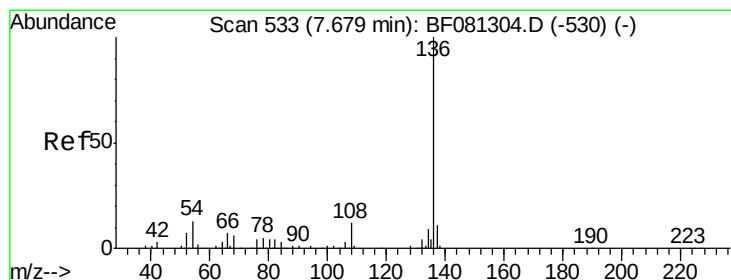
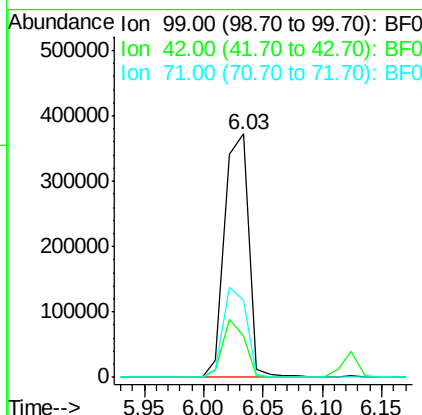
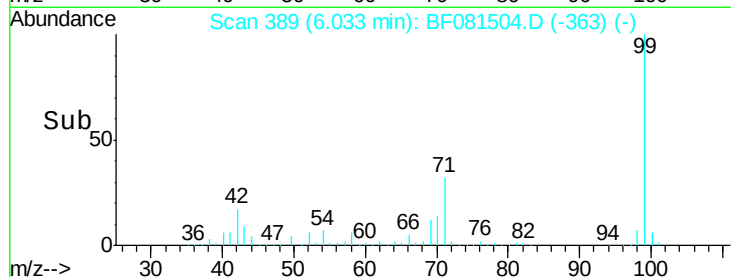
99 100

42 16.9 13.7 20.5

71 32.0 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.64 min Scan# 530

Delta R.T. -0.01 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Tgt Ion: 136 Resp: 194072

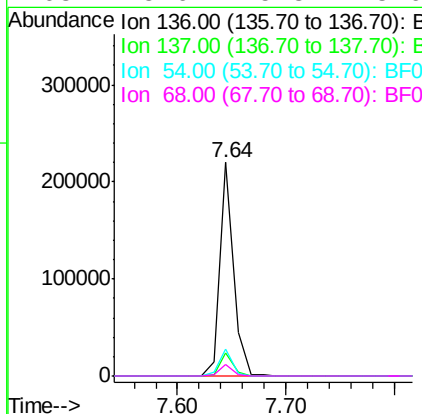
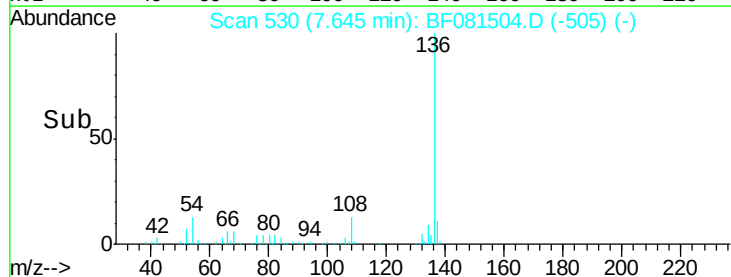
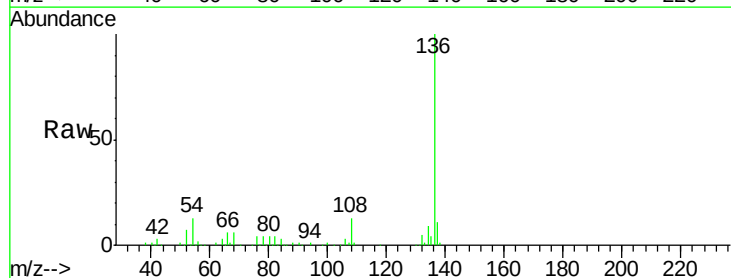
Ion Ratio Lower Upper

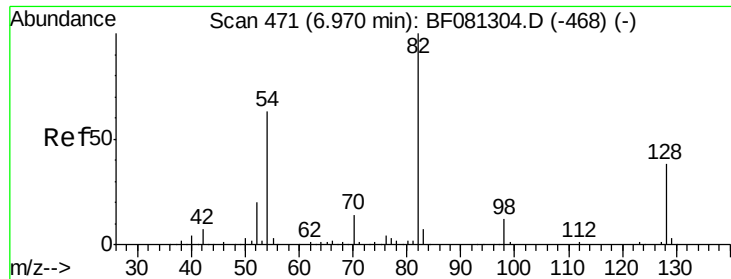
136 100

137 10.7 9.0 13.6

54 12.8 8.2 12.2#

68 5.6 5.8 8.6#





#23

Nitrobenzene-d5

Concen: 84.22 ng

RT: 6.94 min Scan# 468

Delta R.T. -0.01 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

ClientSampleId :

COMP-2

Tgt Ion: 82 Resp: 338769
Ion Ratio Lower Upper

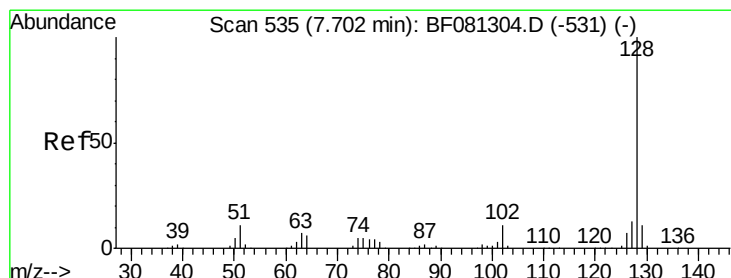
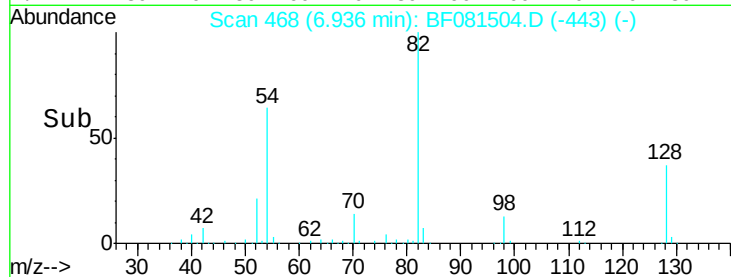
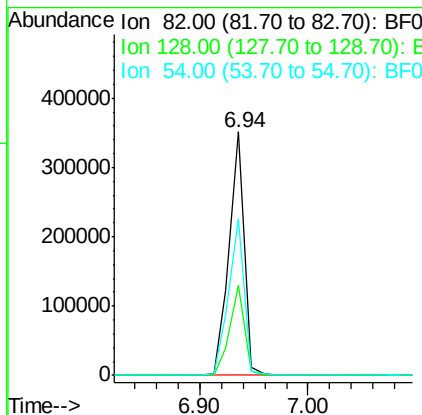
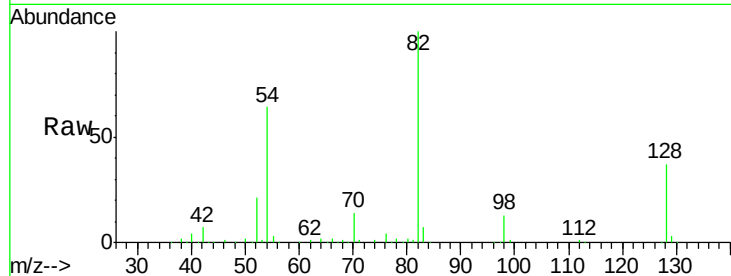
82 100

128 37.1 51.0 76.6#

54 64.2 47.5 71.3

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#31

Naphthalene

Concen: 5.19 ng

RT: 7.67 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF081504.D

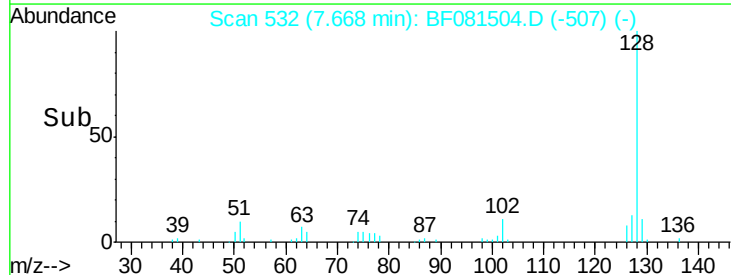
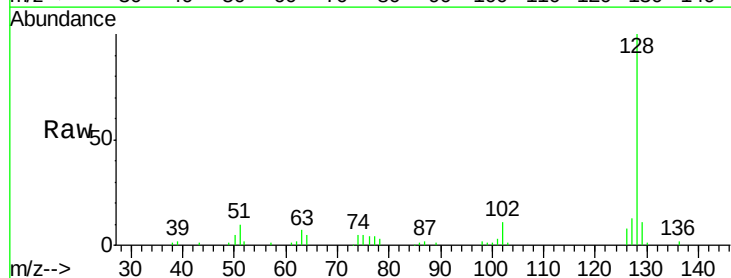
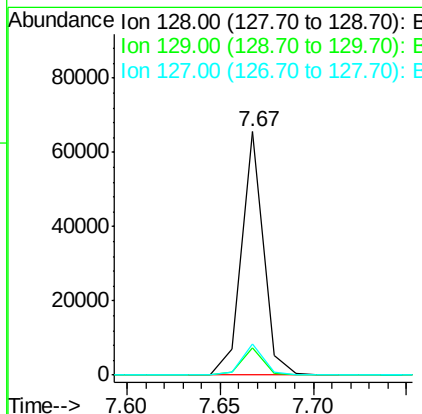
Acq: 6 Sep 2015 12:14

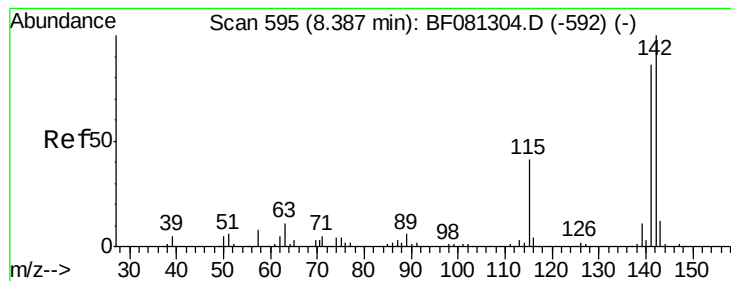
Tgt Ion: 128 Resp: 53752
Ion Ratio Lower Upper

128 100

129 11.4 8.4 12.6

127 12.7 9.9 14.9





#37

2-Methylnaphthalene

Concen: 3.41 ng

RT: 8.36 min Scan# 593

Delta R.T. 0.00 min

Lab File: BF081504.D

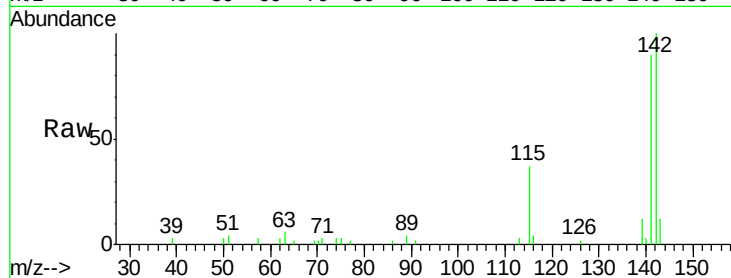
Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

ClientSampleId :

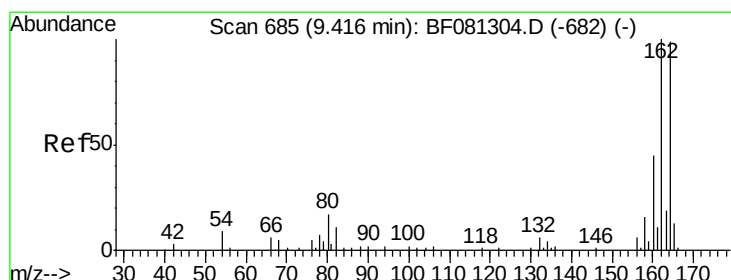
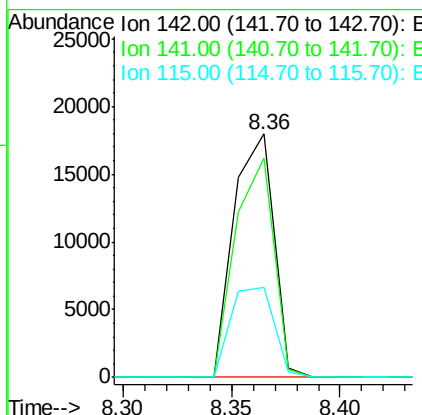
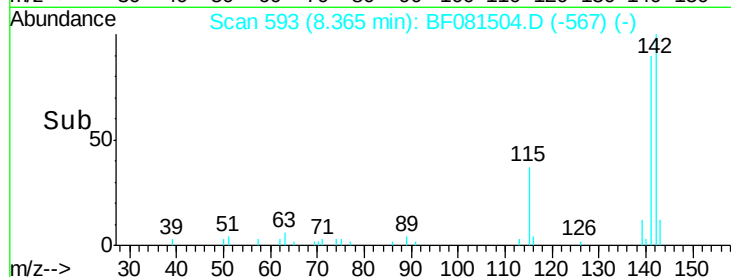
COMP-2



Tgt Ion:	142	Resp:	22960
Ion Ratio	Lower	Upper	
142	100		
141	90.0	67.5	101.3
115	36.9	18.2	27.2#

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#38

Acenaphthene-d10

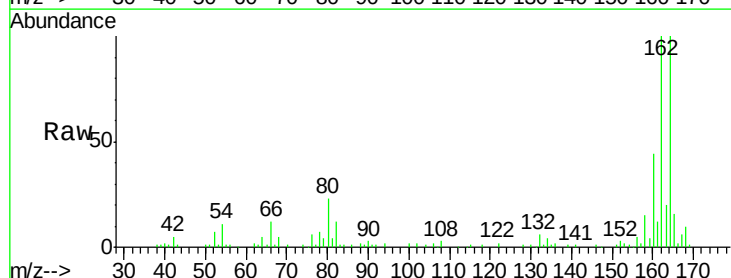
Concen: 20.00 ng

RT: 9.38 min Scan# 682

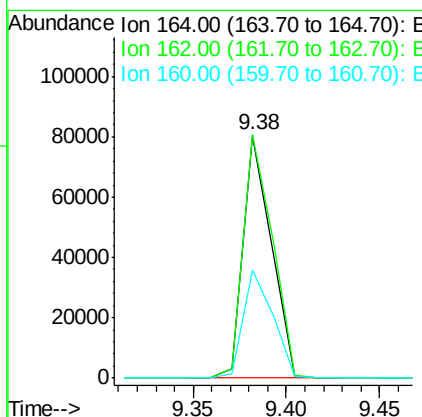
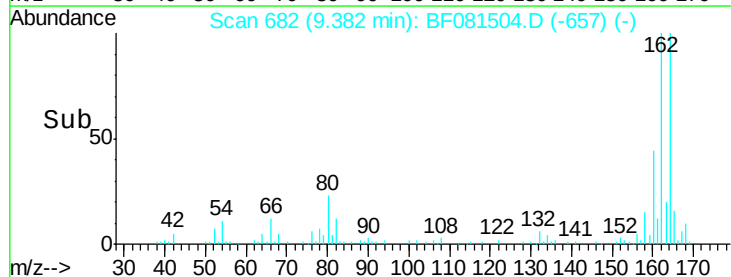
Delta R.T. -0.01 min

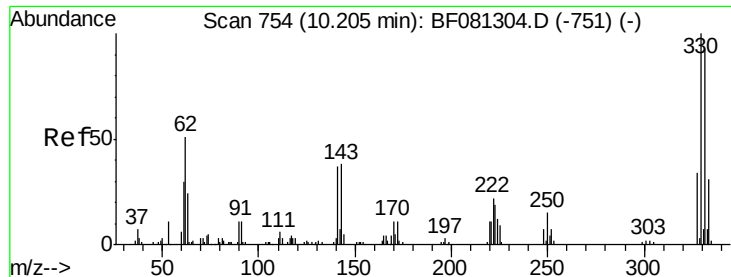
Lab File: BF081504.D

Acq: 6 Sep 2015 12:14



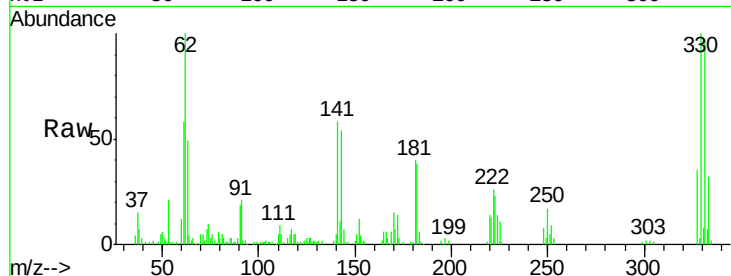
Tgt Ion:	164	Resp:	84926
Ion Ratio	Lower	Upper	
164	100		
162	100.5	75.2	112.8
160	44.6	31.5	47.3





#41
 2,4,6-Tribromophenol
 Concen: 106.39 ng
 RT: 10.17 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

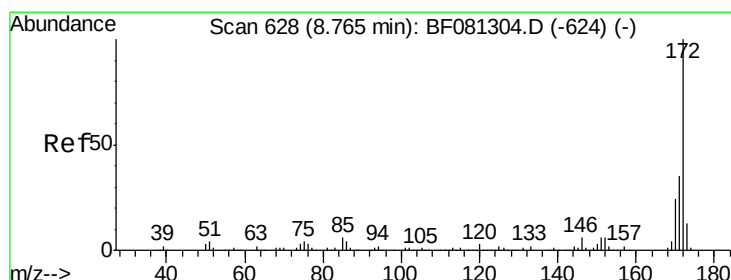
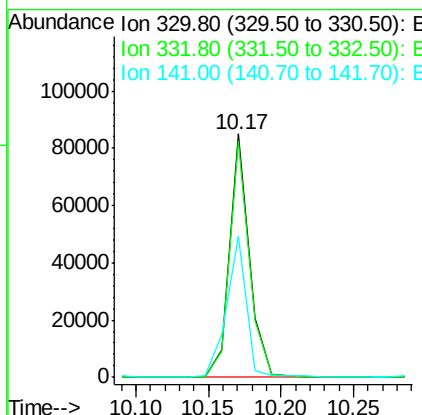
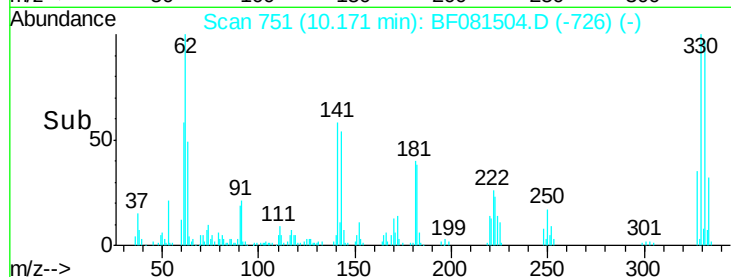
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2



Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	114.8
141	58.5	29.7	44.5#

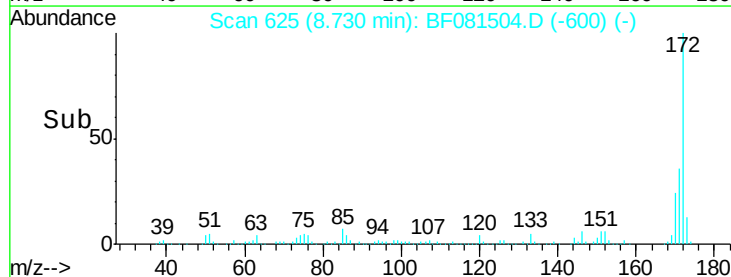
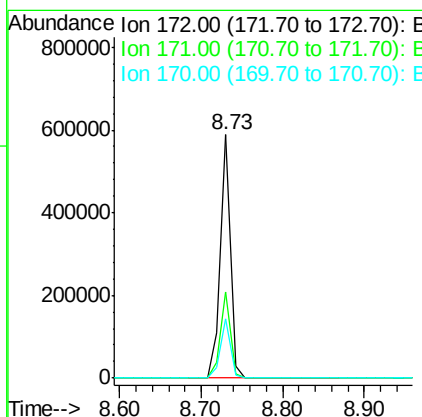
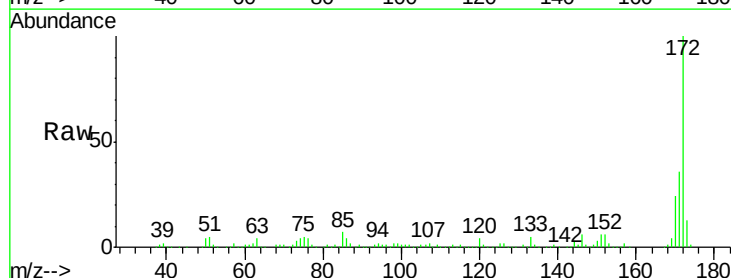
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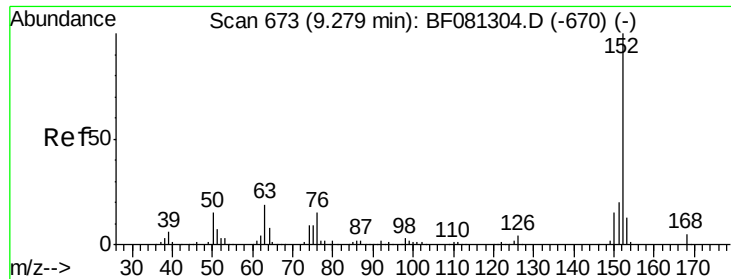
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#44
 2-Fluorobiphenyl
 Concen: 76.34 ng
 RT: 8.73 min Scan# 625
 Delta R.T. -0.01 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	26.1	39.1
170	24.3	17.4	26.2





#48

Acenaphthylene

Concen: 2.81 ng

RT: 9.24 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF081504.D

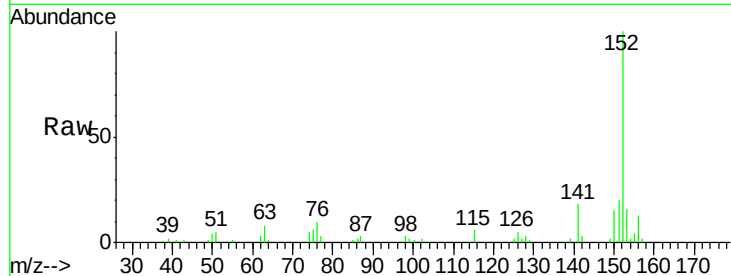
Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

ClientSampleId :

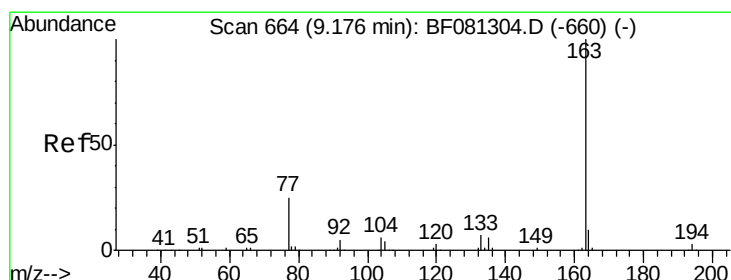
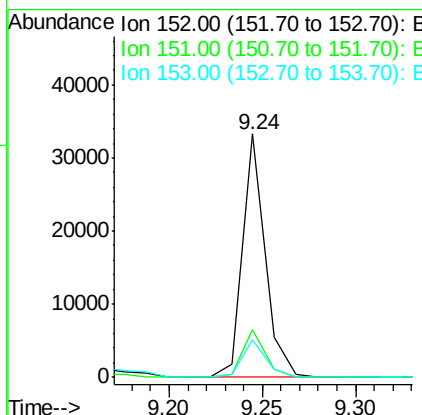
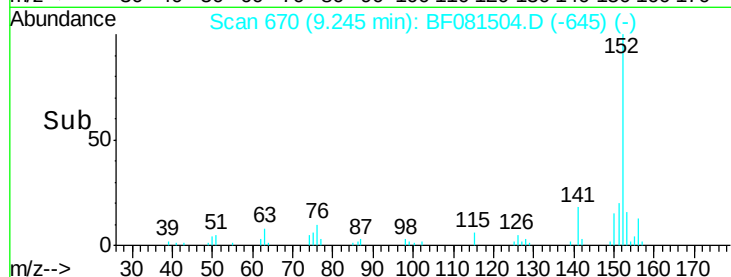
COMP-2



Tgt Ion:	152	Resp:	28098
Ion Ratio		Lower	Upper
152	100		
151	19.7	14.6	22.0
153	15.5	10.3	15.5#

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#49

Dimethylphthalate

Concen: 18.54 ng

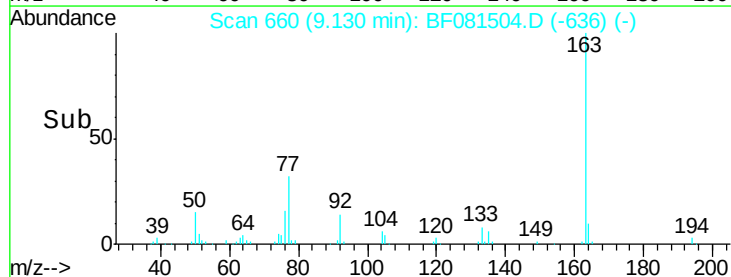
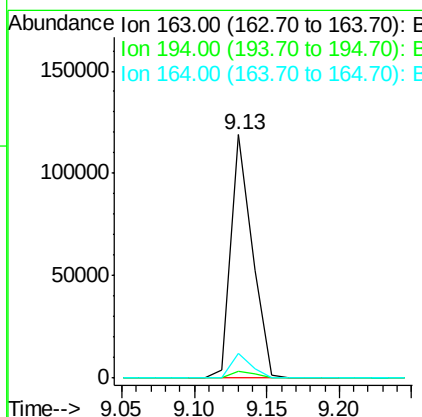
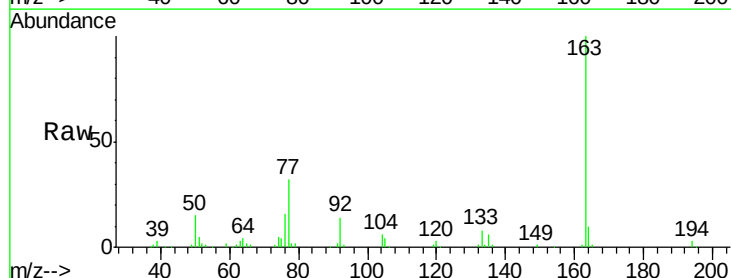
RT: 9.13 min Scan# 660

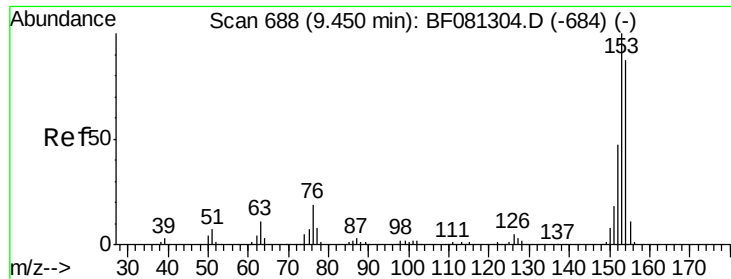
Delta R.T. -0.02 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Tgt Ion:	163	Resp:	122321
Ion Ratio		Lower	Upper
163	100		
194	2.8	4.4	6.6#
164	10.4	8.3	12.5





#51

Acenaphthene

Concen: 9.69 ng

RT: 9.42 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF081504.D

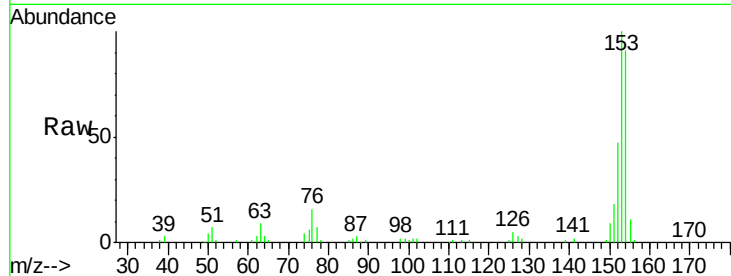
Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

ClientSampled :

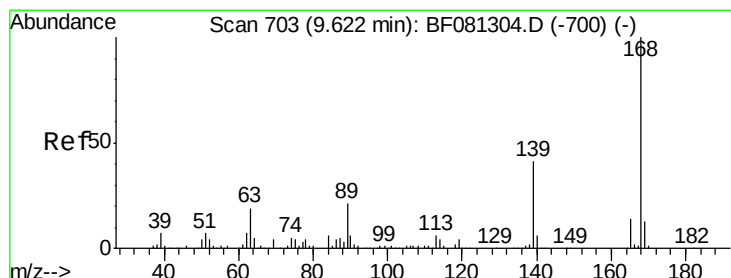
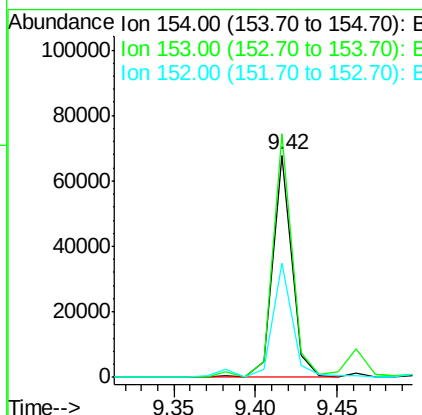
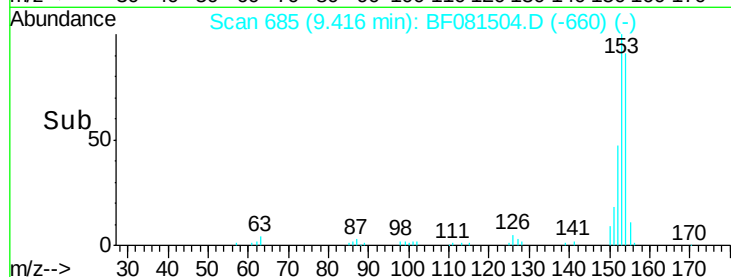
COMP-2



Tgt Ion:	154	Resp:	55208
Ion Ratio	Lower	Upper	
154	100		
153	109.7	82.1	123.1
152	51.4	37.9	56.9

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#54

Dibenzofuran

Concen: 9.09 ng

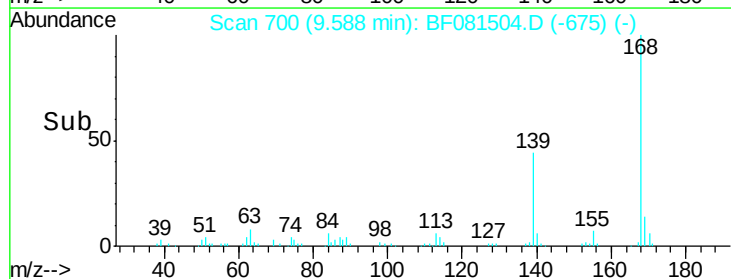
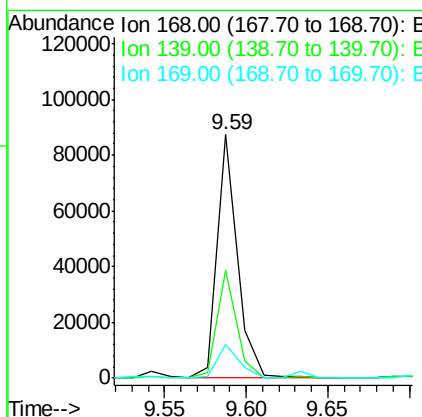
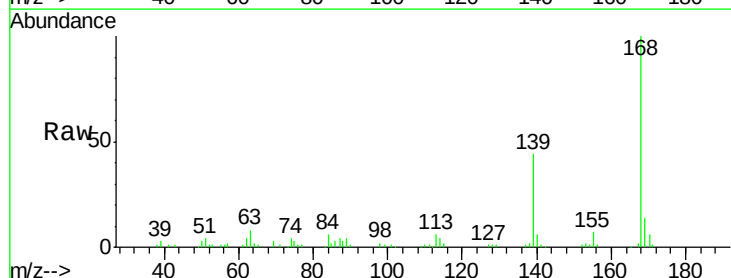
RT: 9.59 min Scan# 700

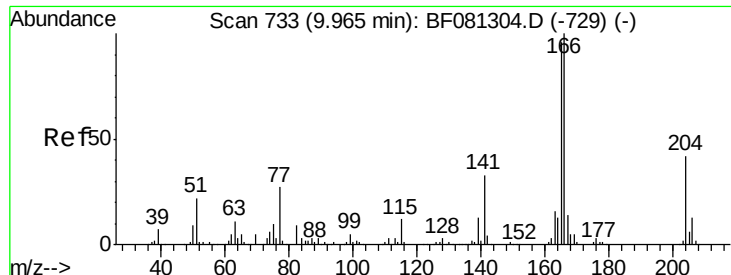
Delta R.T. -0.01 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Tgt Ion:	168	Resp:	75619
Ion Ratio	Lower	Upper	
168	100		
139	44.5	24.2	36.2#
169	13.9	10.6	15.8





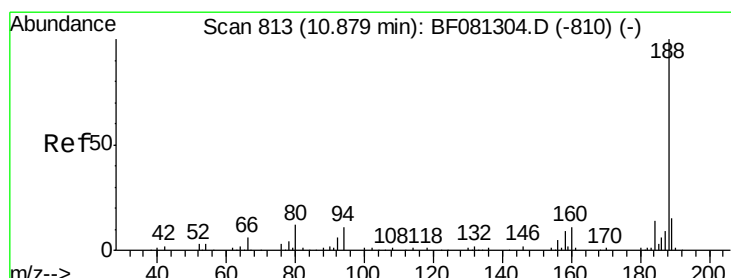
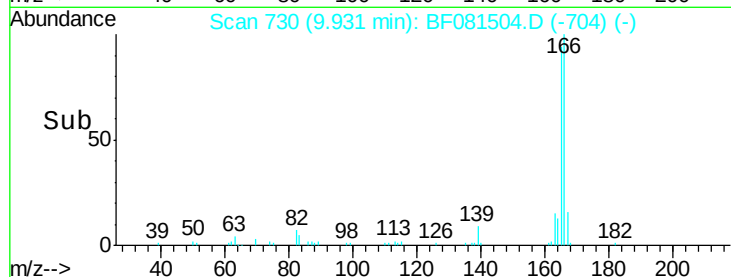
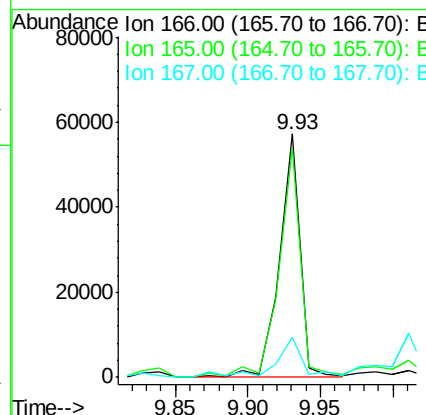
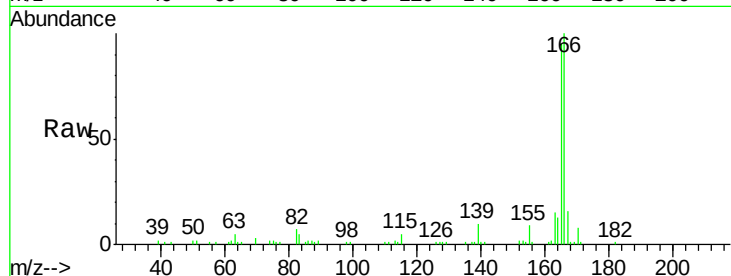
#57
 Fluorene
 Concen: 8.94 ng
 RT: 9.93 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	56395		
165	94.5	72.6	109.0	
167	16.3	10.6	16.0#	

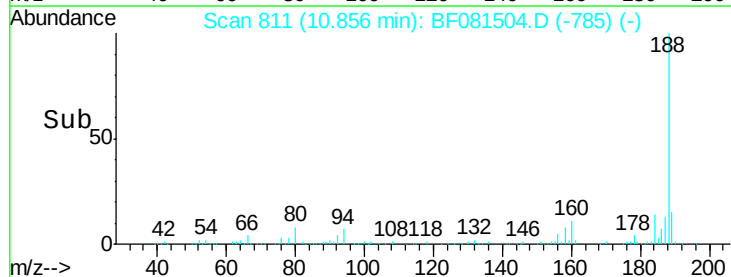
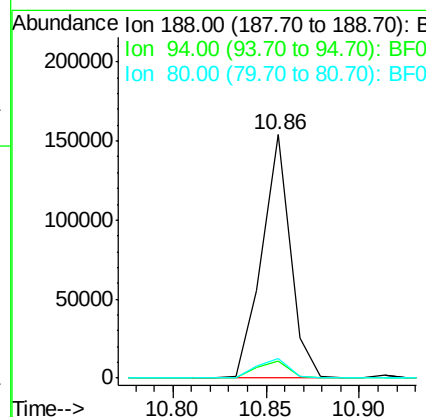
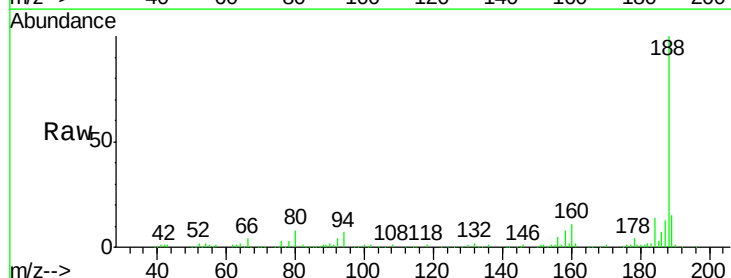
Manual Integrations
 APPROVED

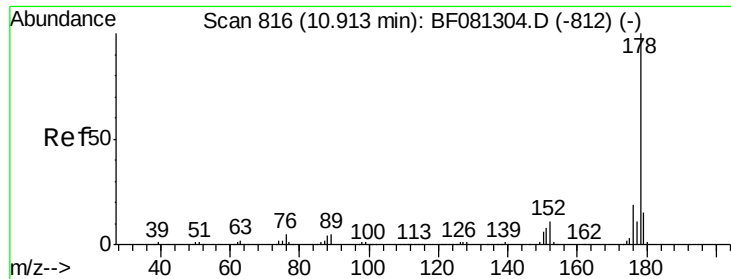
MMDadoda
 9/8/2015 3:58:00 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.86 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	162563		
94	7.2	11.1	16.7#	
80	8.0	11.0	16.4#	





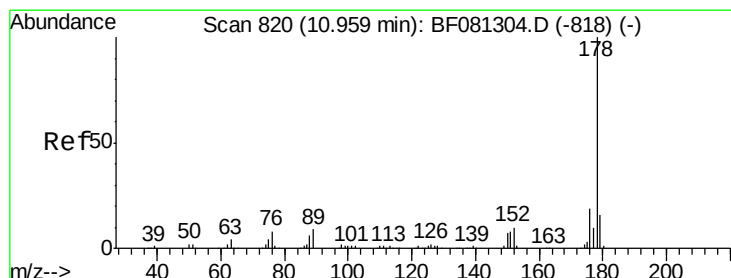
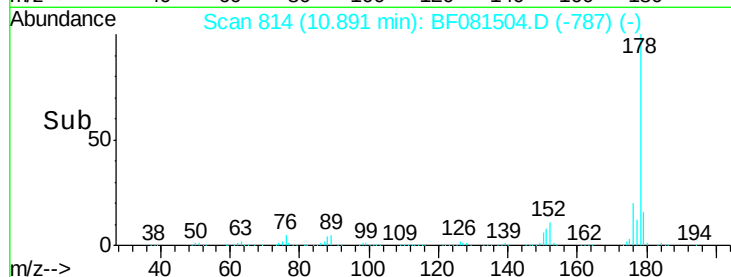
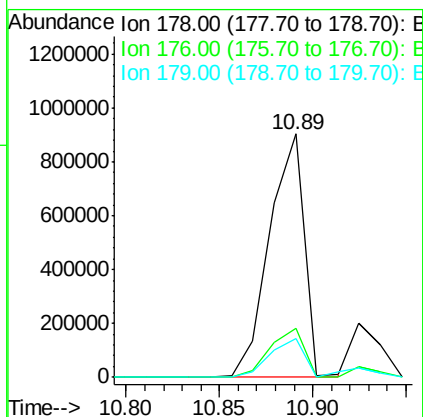
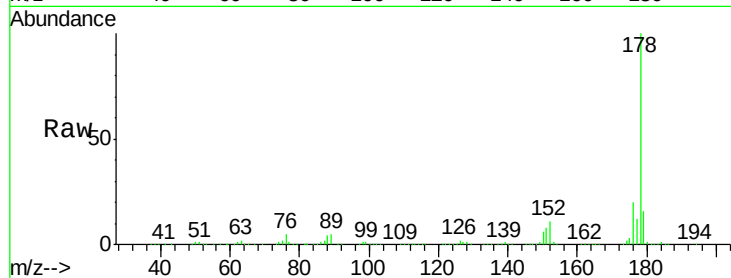
#70
Phenanthrene
Concen: 129.62 ng
RT: 10.89 min Scan# 814
Delta R.T. 0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Instrument :
BNA_F
ClientSampleId :
COMP-2

Tgt Ion:178 Resp: 1171438
Ion Ratio Lower Upper
178 100
176 19.9 13.8 20.8
179 15.7 12.2 18.2

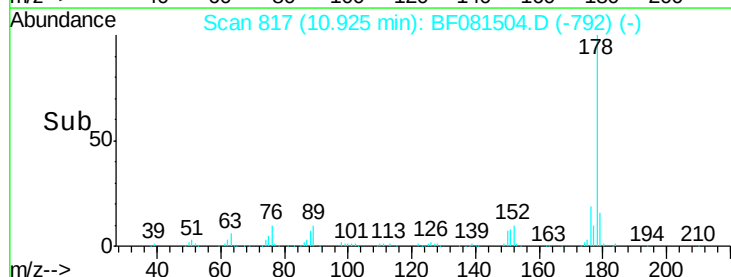
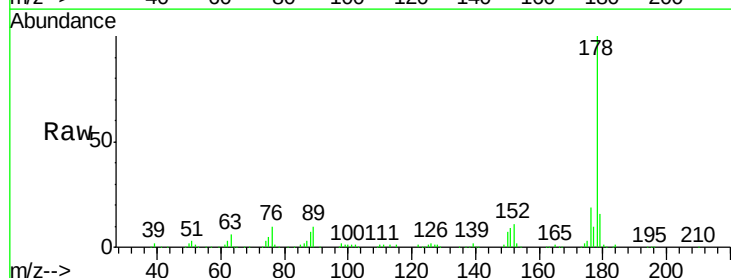
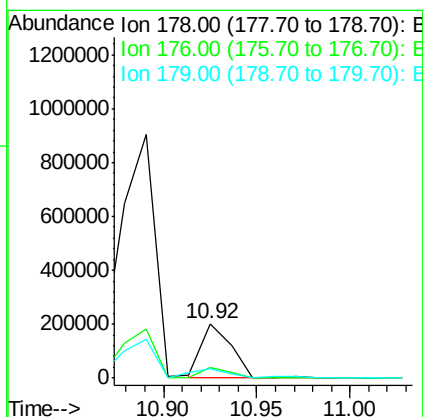
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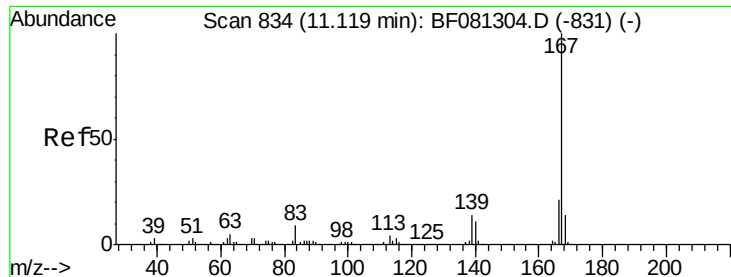
MMDadoda
9/8/2015 3:58:00 PM



#71
Anthracene
Concen: 24.40 ng
RT: 10.92 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Tgt Ion:178 Resp: 226541
Ion Ratio Lower Upper
178 100
176 18.8 14.1 21.1
179 16.2 12.2 18.2





#72

Carbazole

Concen: 8.98 ng

RT: 11.10 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

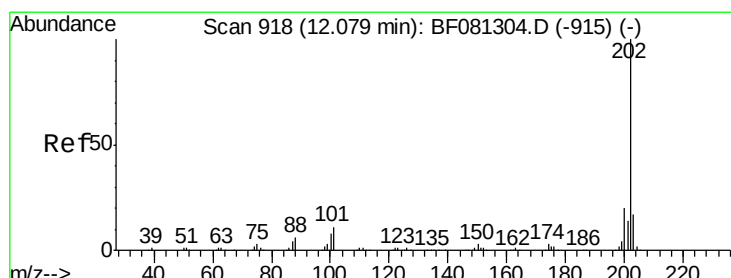
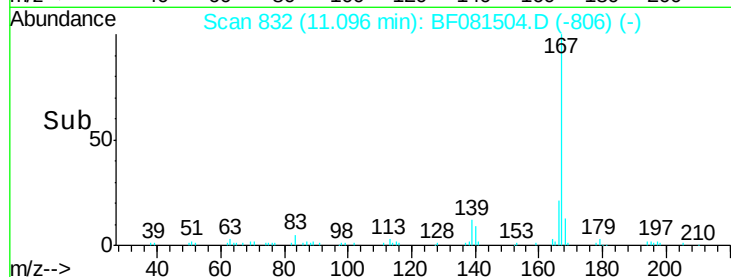
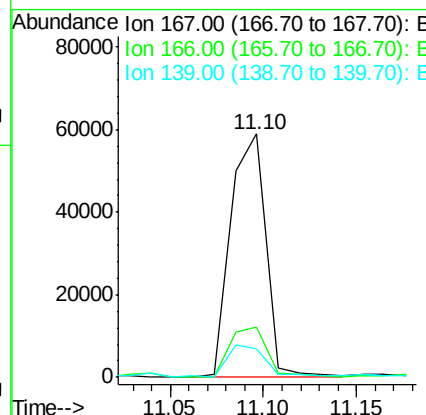
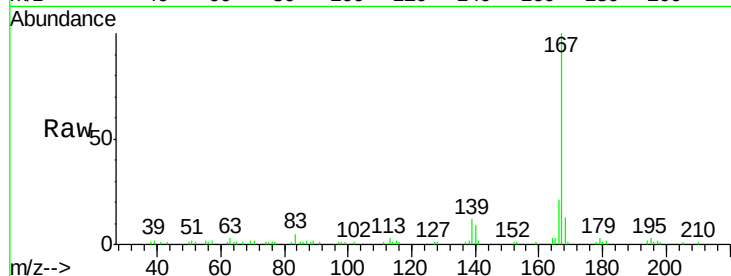
ClientSampleId :

COMP-2

Manual Integrations
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9/8/2015 3:58:00 PM

Tgt Ion:	167	Resp:	78246
Ion Ratio	Lower	Upper	
167	100		
166	20.8	15.7	23.5
139	11.7	9.5	14.3



#74

Fluoranthene

Concen: 94.67 ng

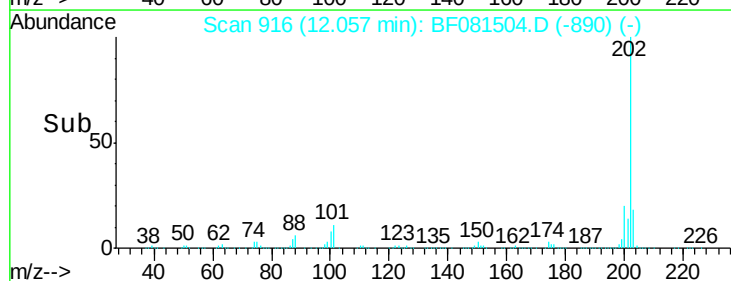
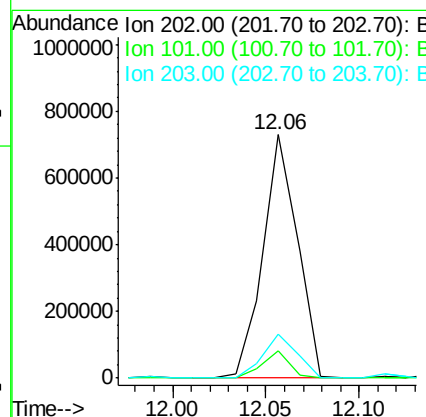
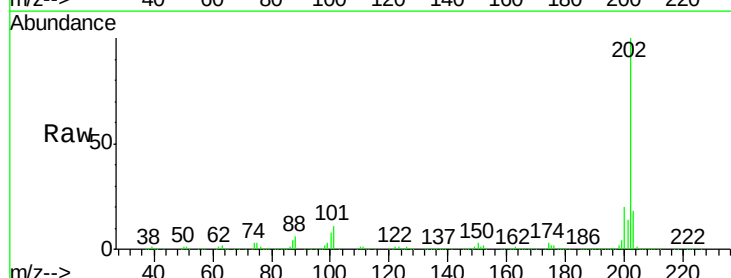
RT: 12.06 min Scan# 916

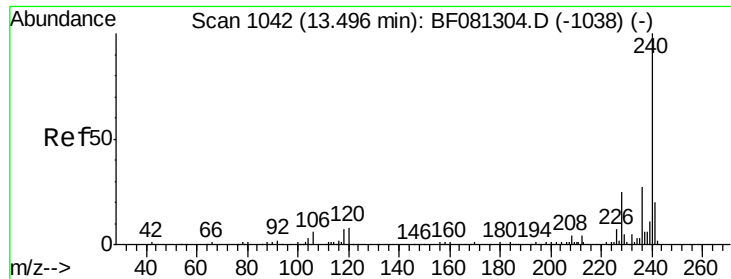
Delta R.T. 0.00 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Tgt Ion:	202	Resp:	926220
Ion Ratio	Lower	Upper	
202	100		
101	11.0	0.0	38.3
203	18.1	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.46 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF081504.D

Acq: 6 Sep 2015 12:14

Instrument :

BNA_F

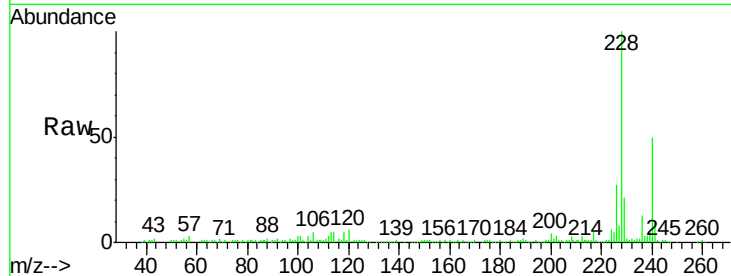
ClientSampleId :

COMP-2

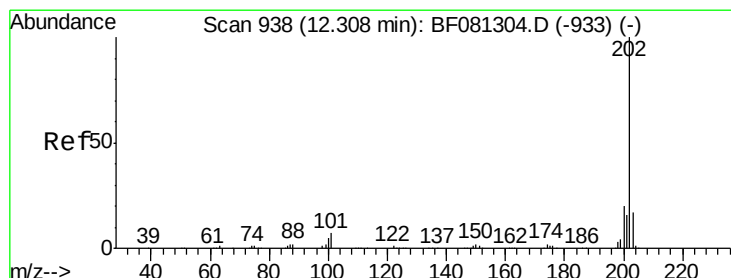
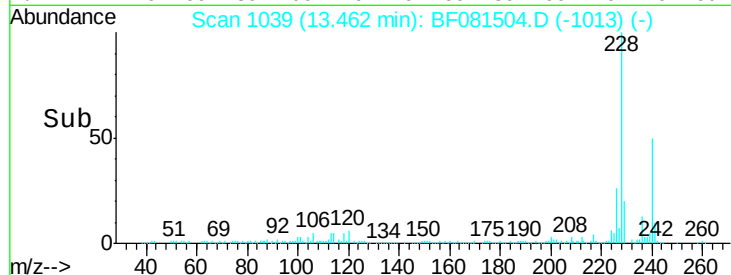
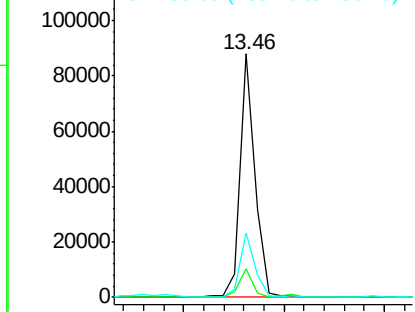
Tgt Ion:	240	Resp:	90559
Ion Ratio	Lower	Upper	
240	100		
120	11.7	16.2	24.2#
236	26.5	18.4	27.6

Manual Integrations
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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

Pyrene

Concen: 142.57 ng

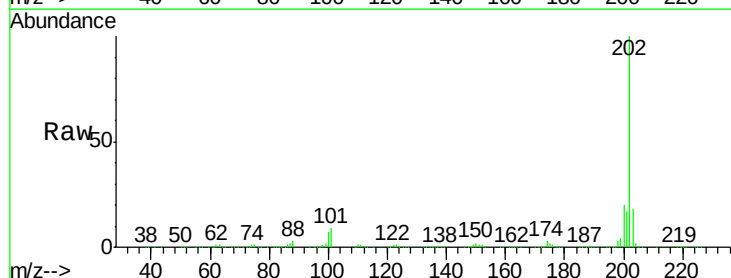
RT: 12.29 min Scan# 936

Delta R.T. 0.01 min

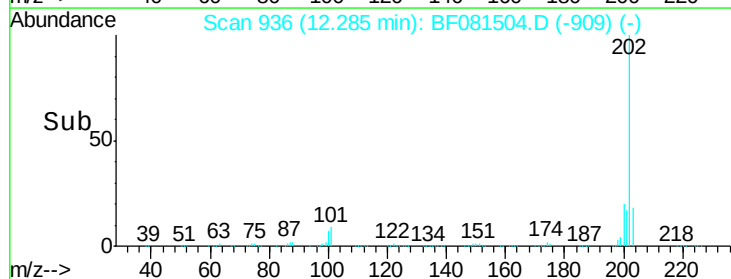
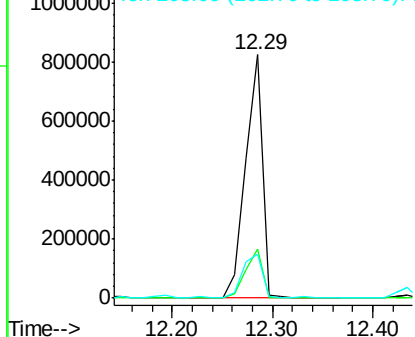
Lab File: BF081504.D

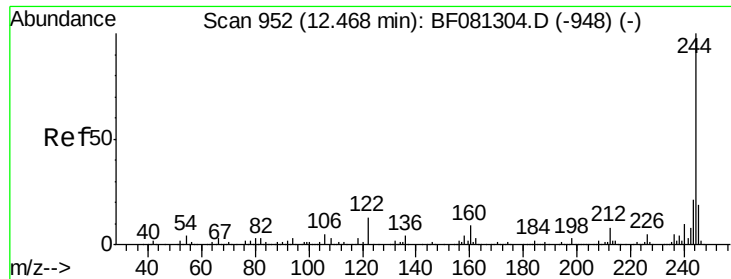
Acq: 6 Sep 2015 12:14

Tgt Ion:	202	Resp:	956357
Ion Ratio	Lower	Upper	
202	100		
200	20.3	15.0	22.4
203	17.9	14.1	21.1



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





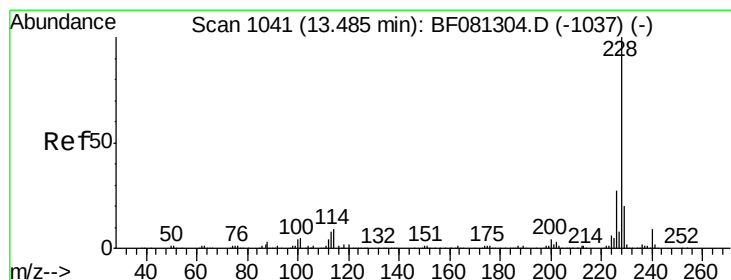
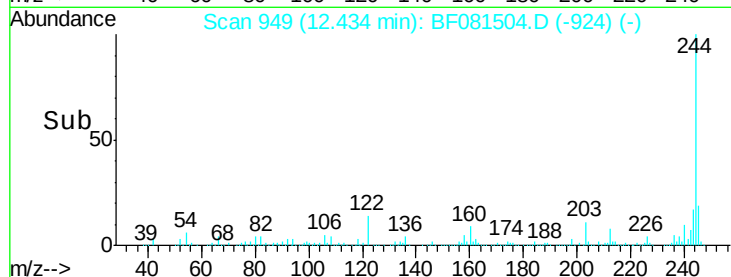
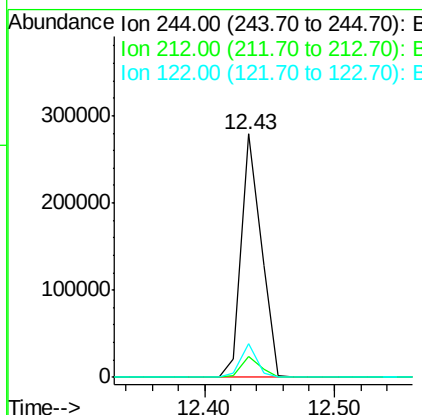
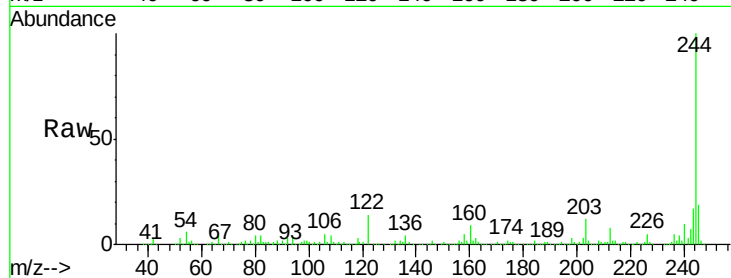
#78
 Terphenyl-d14
 Concen: 76.11 ng
 RT: 12.43 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.4	4.3	6.5#
122	13.8	17.4	26.2#

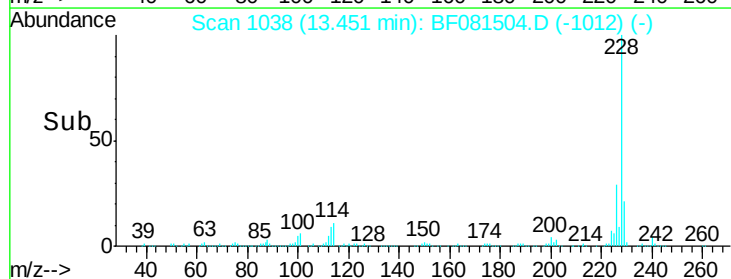
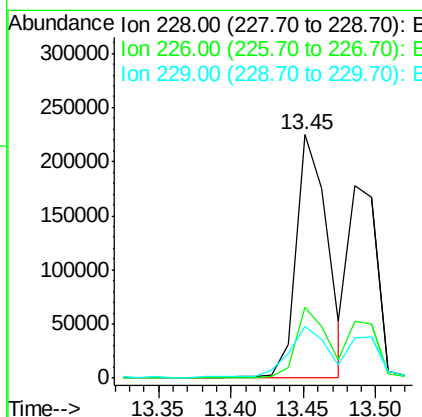
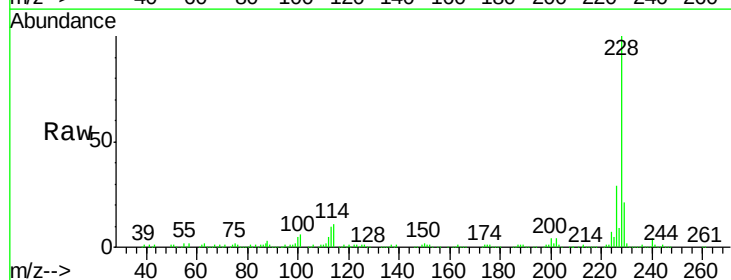
Manual Integrations
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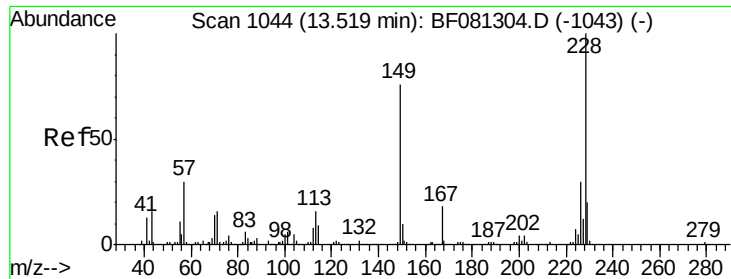
MMDadoda
 9/8/2015 3:58:00 PM



#80
 Benzo(a)anthracene
 Concen: 57.94 ng
 RT: 13.45 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	29.3	20.0	30.0
229	21.4	15.4	23.2





#82

Chrysene

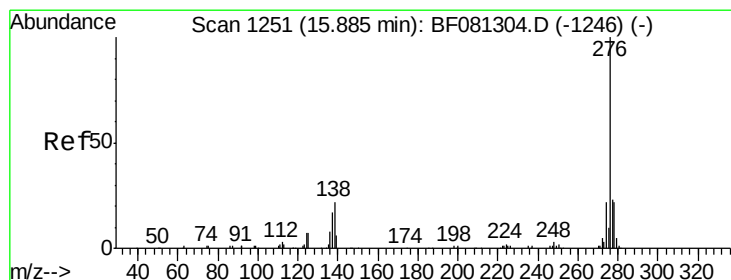
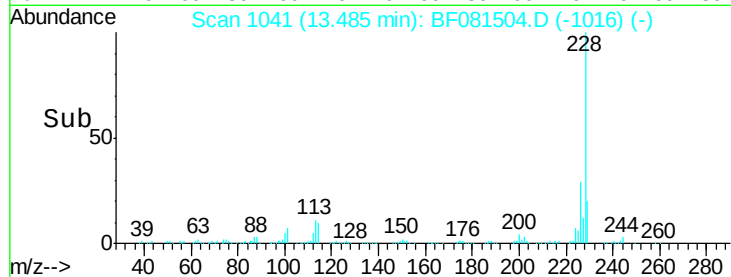
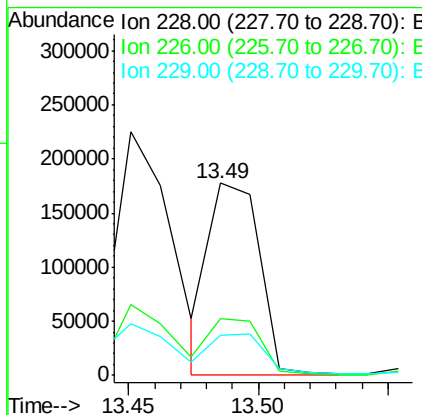
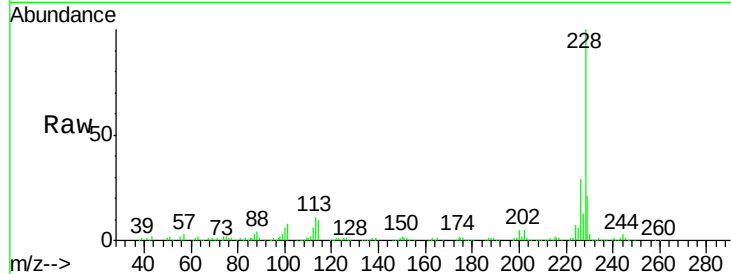
Concen: 47.09 ng m
RT: 13.49 min Scan# 1041
Delta R.T. -0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Instrument :
BNA_F
ClientSampleId :
COMP-2

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	243462		
226	29.3	21.0	31.4	
229	21.1	15.6	23.4	

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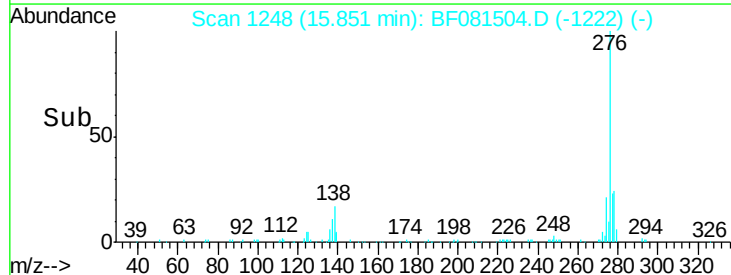
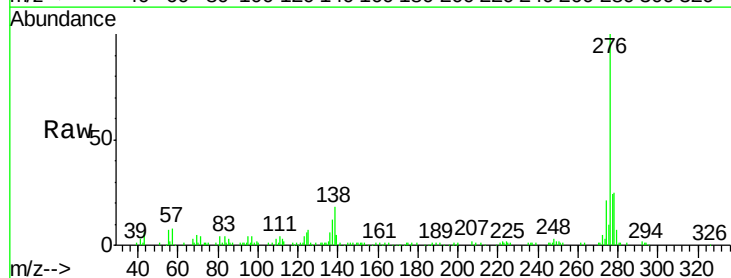
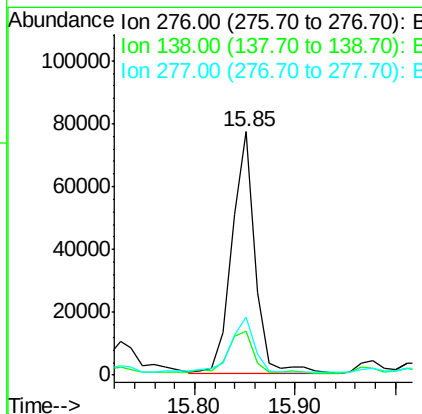


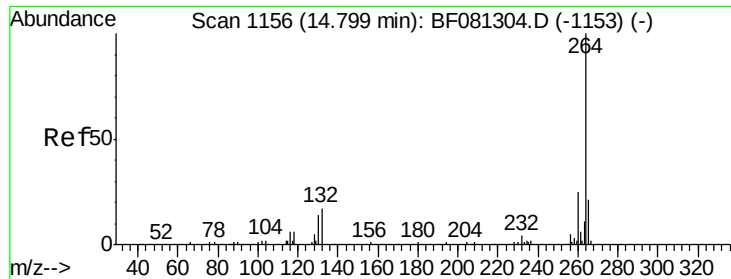
#85

Indeno(1,2,3-cd)pyrene

Concen: 32.59 ng
RT: 15.85 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	123626		
138	20.0	25.7	38.5#	
277	26.1	15.6	23.4#	





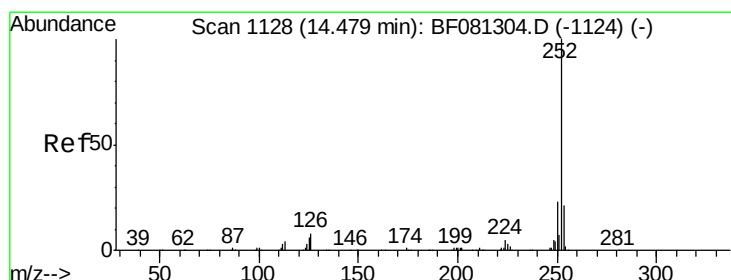
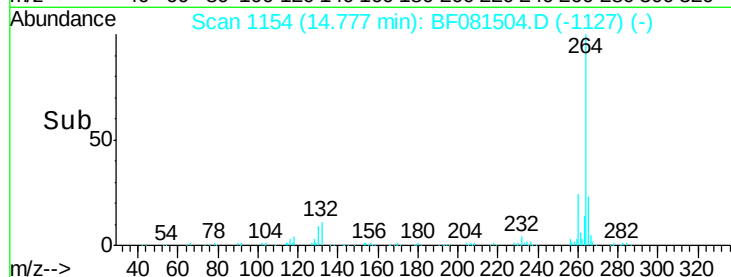
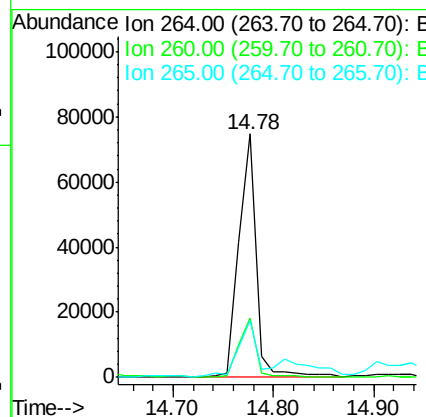
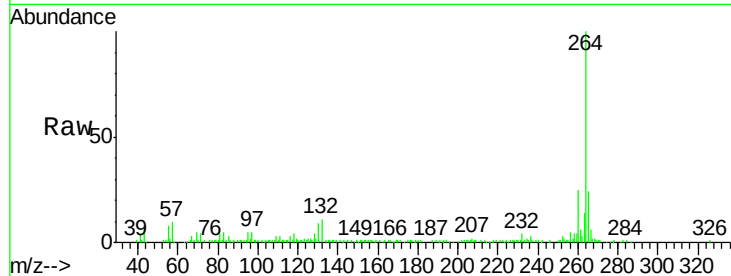
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.78 min Scan# 1154
 Delta R.T. 0.01 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Instrument :
 BNA_F
 ClientSampled :
 COMP-2

Tgt Ion:	264	Resp:	90793
Ion Ratio	Lower	Upper	
264	100		
260	24.6	16.7	25.1
265	23.6	17.2	25.8

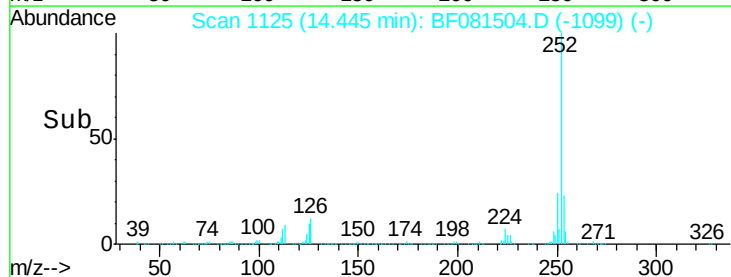
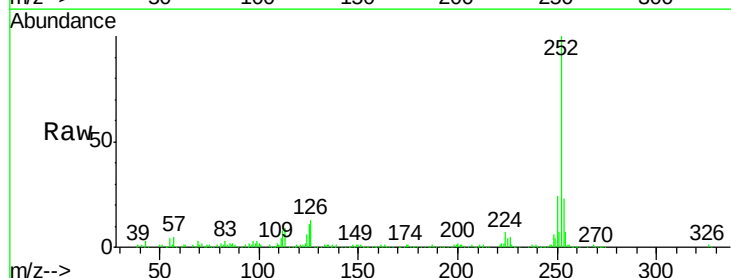
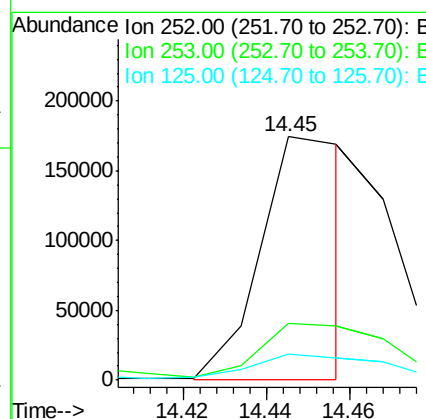
Manual Integrations
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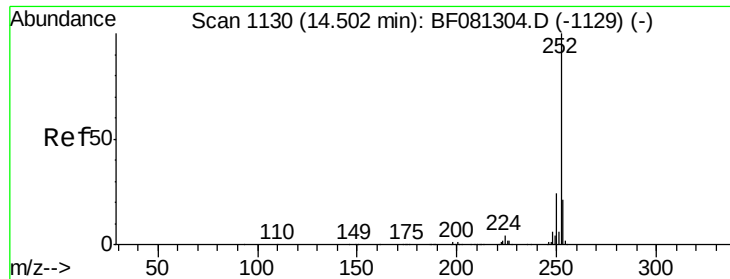
MMDadoda
 9/8/2015 3:58:00 PM



#87
 Benzo(b)fluoranthene
 Concen: 40.45 ng m
 RT: 14.45 min Scan# 1125
 Delta R.T. 0.00 min
 Lab File: BF081504.D
 Acq: 6 Sep 2015 12:14

Tgt Ion:	252	Resp:	262210
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.5	26.3
125	10.8	17.1	25.7#





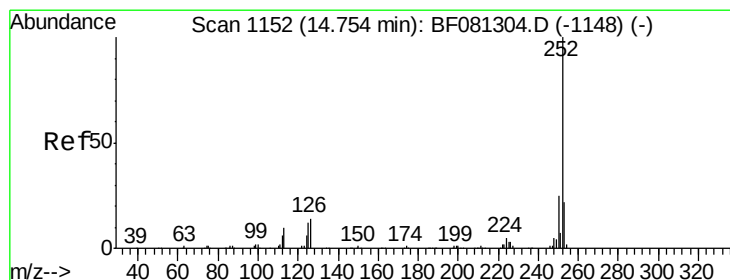
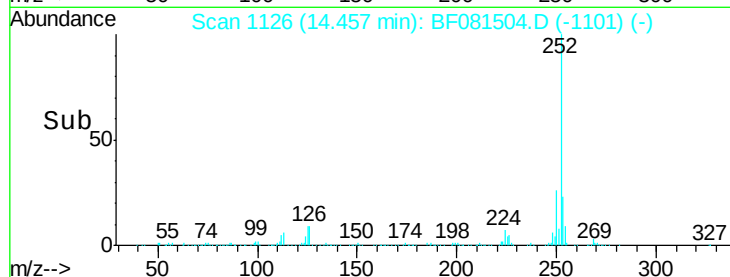
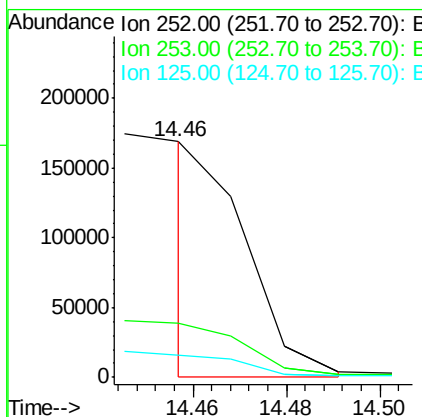
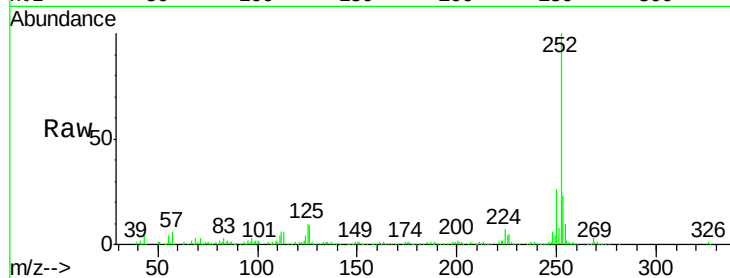
#88
Benzo(k)fluoranthene
Concen: 19.82 ng m
RT: 14.46 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Instrument :
BNA_F
ClientSampleId :
COMP-2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.4
125	9.5	16.0	24.0

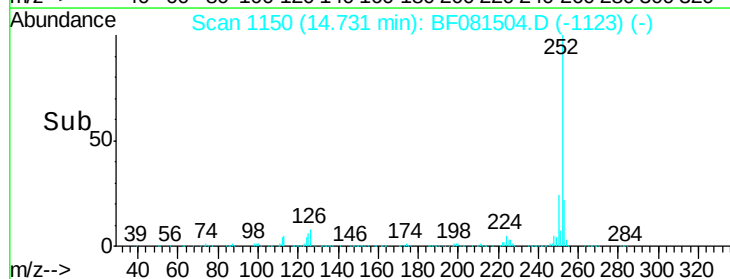
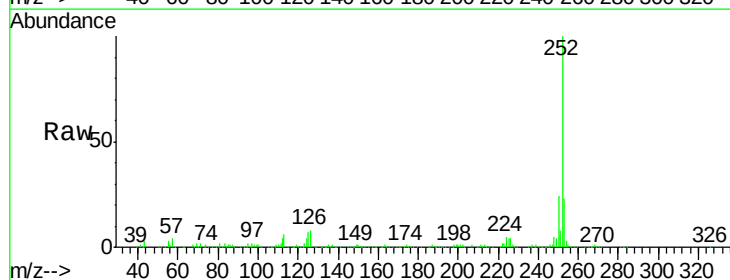
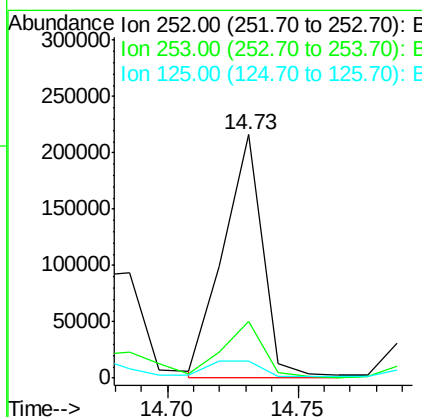
Manual Integrations
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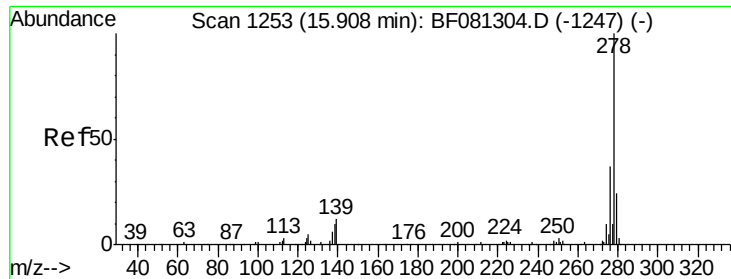
MMDadoda
9/8/2015 3:58:00 PM



#89
Benzo(a)pyrene
Concen: 41.22 ng
RT: 14.73 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	7.1	18.0	27.0





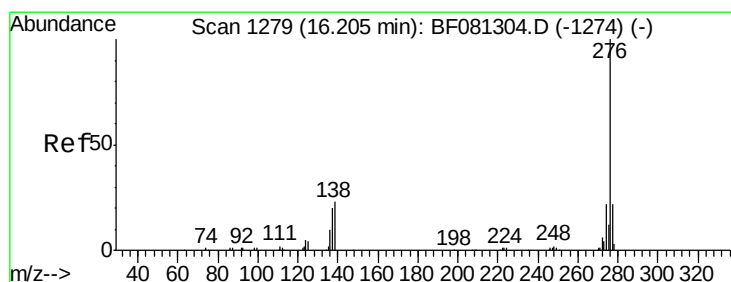
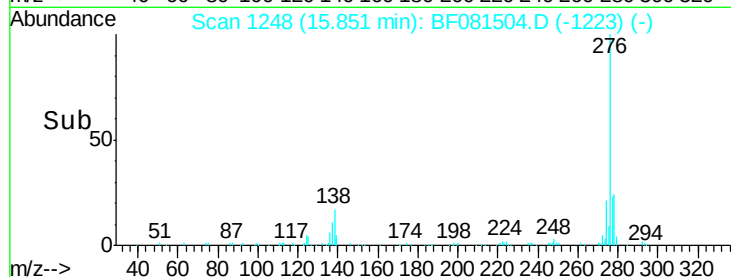
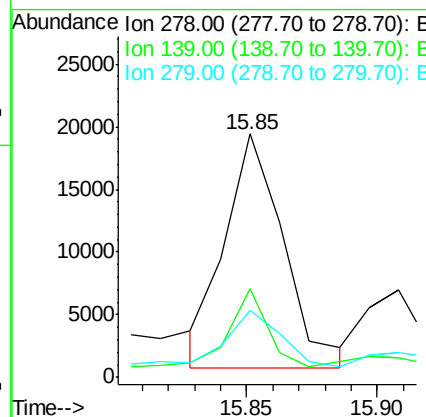
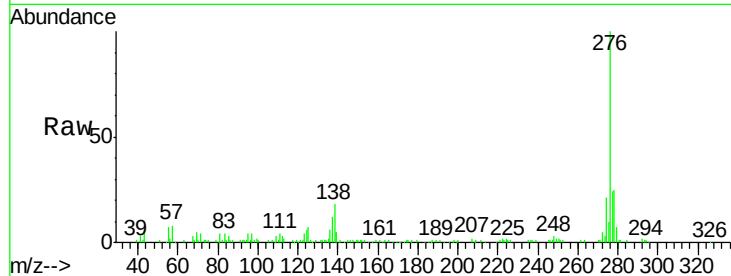
#90
Dibenzo(a,h)anthracene
Concen: 6.91 ng m
RT: 15.85 min Scan# 1248
Delta R.T. -0.01 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Instrument :
BNA_F
ClientSampled :
COMP-2

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.3	26.3	39.5#
279	27.4	18.2	27.4#

Manual Integrations
APPROVED

MMDadoda
9/8/2015 3:58:00 PM



#91
Benzo(g,h,i)perylene
Concen: 26.54 ng
RT: 16.17 min Scan# 1276
Delta R.T. 0.00 min
Lab File: BF081504.D
Acq: 6 Sep 2015 12:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.8	26.6
138	16.9	34.6	51.8#

