

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102816\
 Data File : BF090914.D
 Acq On : 28 Oct 2016 18:01
 Operator : UM/SJ
 Sample : H5422-05RE
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPRES

Manual Integrations
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Quant Time: Oct 28 19:00:34 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 28 15:18:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	149832	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	600138	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	287626	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	373314	20.00	ng	0.01
75) Chrysene-d12	13.95	240	340855	20.00	ng	0.02
86) Perylene-d12	15.37	264	473117	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1099606	128.31	ng	0.00
7) Phenol-d6	6.41	99	1528918	132.24	ng	-0.01
23) Nitrobenzene-d5	7.33	82	981577	107.07	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	297569	100.67	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	1293150	78.95	ng	-0.01
78) Terphenyl-d14	12.89	244	1037715	76.70	ng	0.01

Target Compounds						Qvalue
10) Phenol	6.42	94	51432	4.04	ng	76
20) 3+4-Methylphenols	7.18	107	22076	2.37	ng	# 83
31) Naphthalene	8.08	128	2217802	79.05	ng	96
37) 2-Methylnaphthalene	8.76	142	655167	36.16	ng	# 89
45) 1,1'-Biphenyl	9.23	154	243919	11.77	ng	97
49) Dimethylphthalate	9.53	163	321955	16.75	ng	# 98
51) Acenaphthene	9.84	154	1229011	74.78	ng	89
54) Dibenzofuran	10.01	168	1558875	73.50	ng	# 82
57) Fluorene	10.35	166	1308337	75.31	ng	# 91
70) Phenanthrene	11.33	178	6824573	358.98	ng	# 91
71) Anthracene	11.38	178	1929417	96.38	ng	# 93
72) Carbazole	11.53	167	1241869	70.25	ng	93
74) Fluoranthene	12.52	202	6064135	291.28	ng	91
77) Pyrene	12.75	202	5017066	232.59	ng	# 88
80) Benzo(a)anthracene	13.94	228	3136226	173.37	ng	# 90
82) Chrysene	13.97	228	2785630m	152.24	ng	
83) Bis(2-ethylhexyl)phthalate	13.93	149	53476	4.20	ng	94
85) Indeno(1,2,3-cd)pyrene	16.75	276	1903970	117.42	ng	# 89
87) Benzo(b)fluoranthene	14.98	252	3083225m	96.92	ng	
88) Benzo(k)fluoranthene	14.98	252	1961651m	78.03	ng	
89) Benzo(a)pyrene	15.32	252	2777523	101.61	ng	# 84
90) Dibenzo(a,h)anthracene	16.75	278	622560	26.90	ng	# 80
91) Benzo(g,h,i)perylene	17.16	276	1601475	73.48	ng	# 77

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

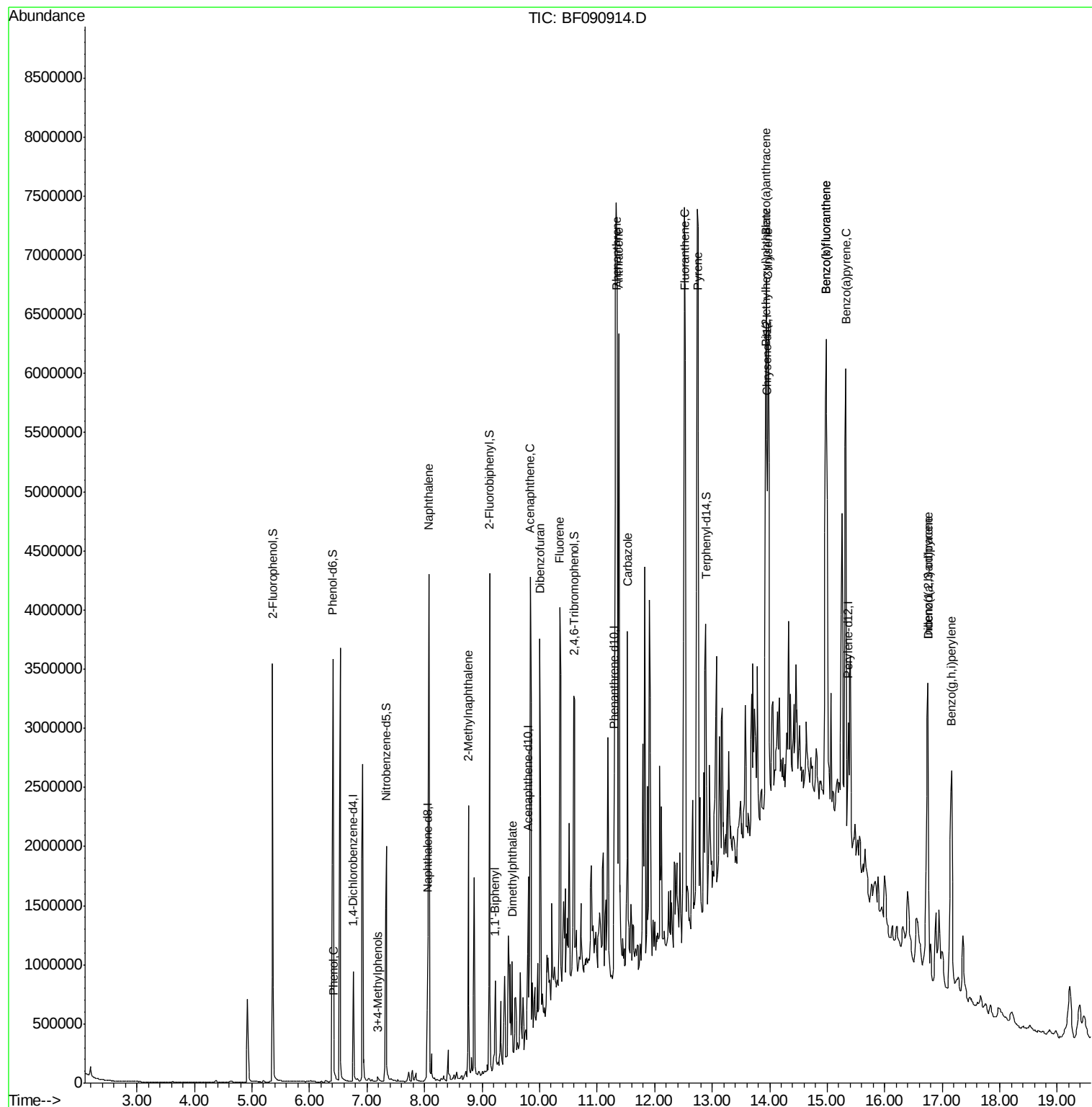
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102816\
Data File : BF090914.D
Acq On : 28 Oct 2016 18:01
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Sample : H5422-05RE
Misc :
ALS Vial : 13 Sample Multiplier: 1

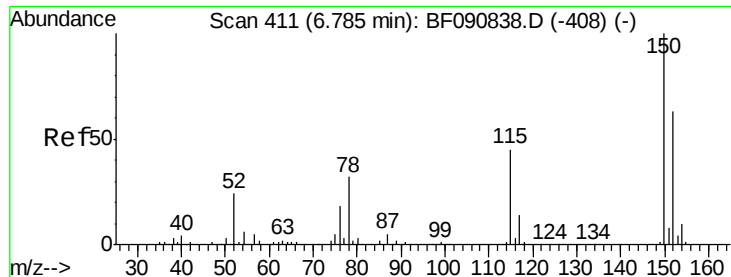
Instrument :
BNA_F
ClientSampleId :
SB-2-COMPRE

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Quant Time: Oct 28 19:00:34 2016
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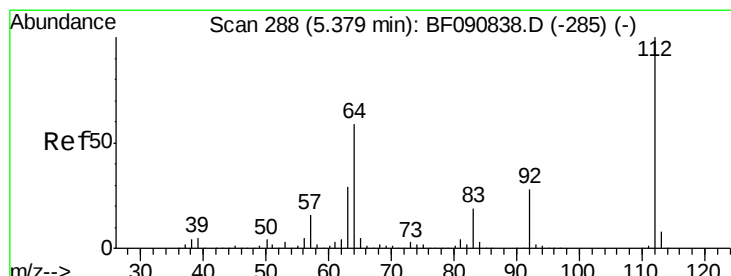
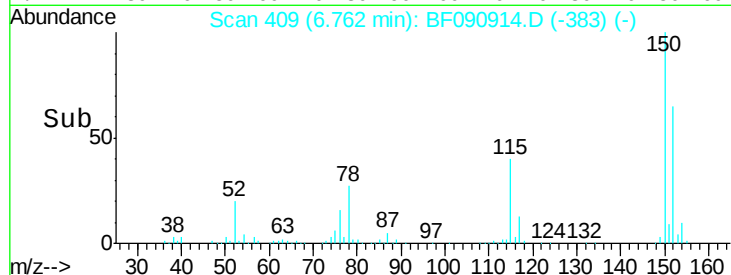
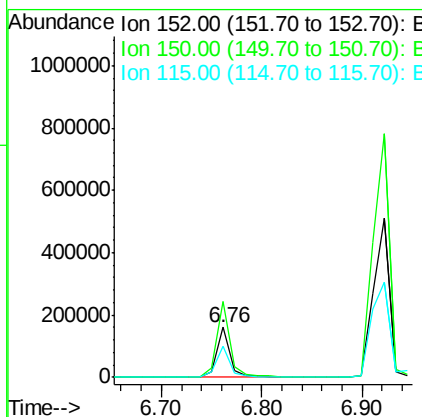
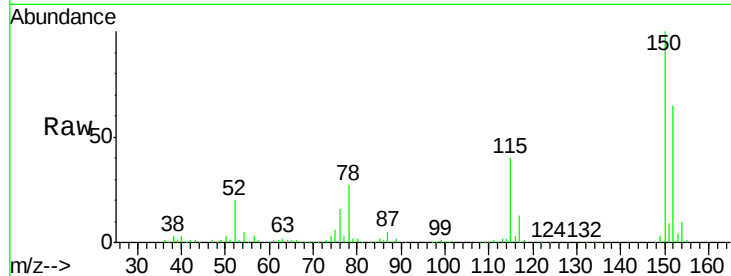
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 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.76 min Scan# 409
 Delta R.T. 0.00 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.7	187.1
115	62.2	39.0	58.4

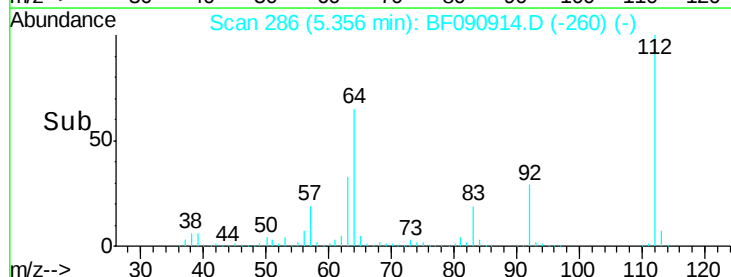
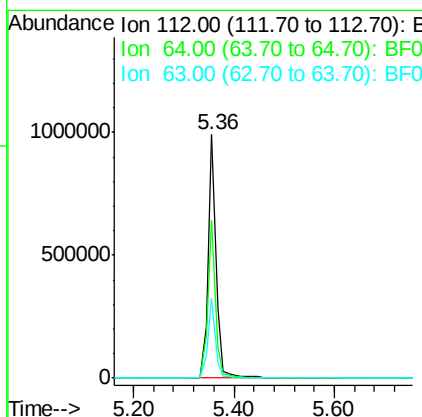
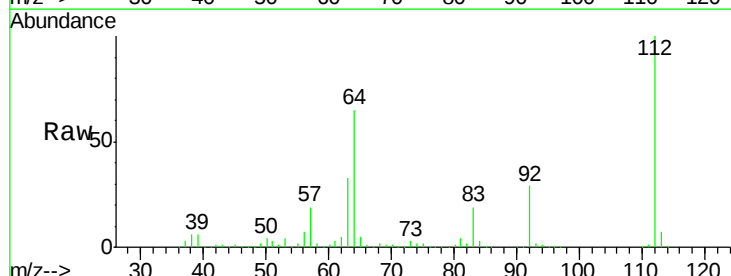
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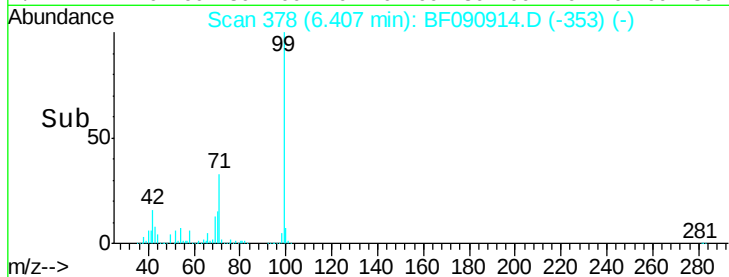
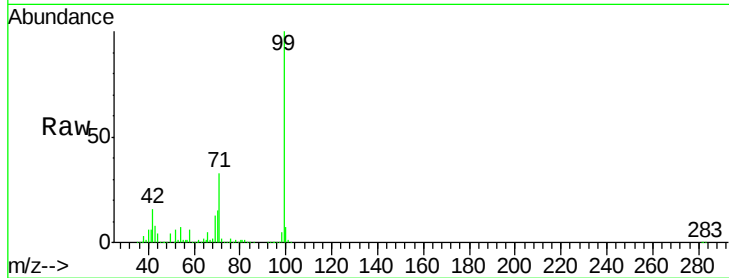
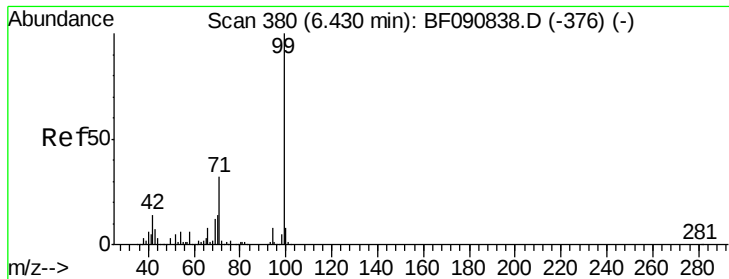
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#5
 2-Fluorophenol
 Concen: 128.31 ng
 RT: 5.36 min Scan# 286
 Delta R.T. 0.00 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.0	39.7	59.5
63	32.5	17.4	26.0





#7

Phenol-d6

Concen: 132.24 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Tgt Ion:	99	Resp:	1528918
Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.7	20.5
71	33.0	14.2	21.2#

Instrument :

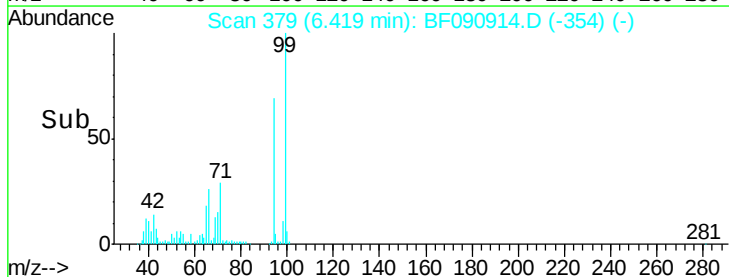
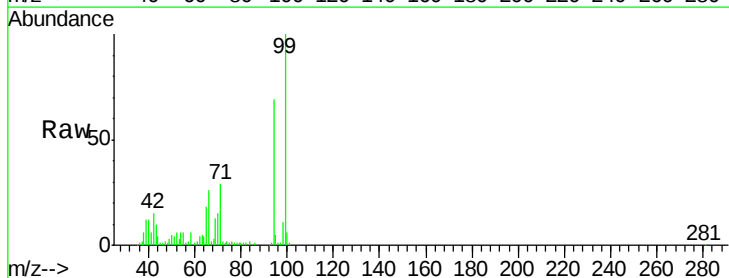
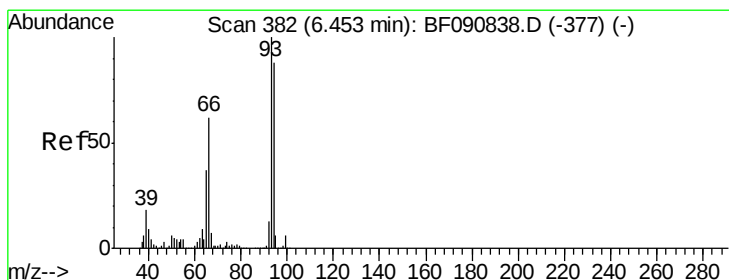
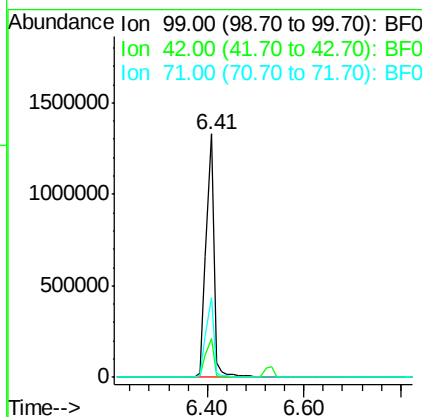
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ClientSampleId :

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#10

Phenol

Concen: 4.04 ng

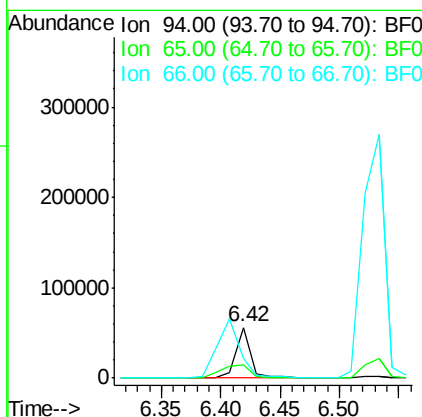
RT: 6.42 min Scan# 379

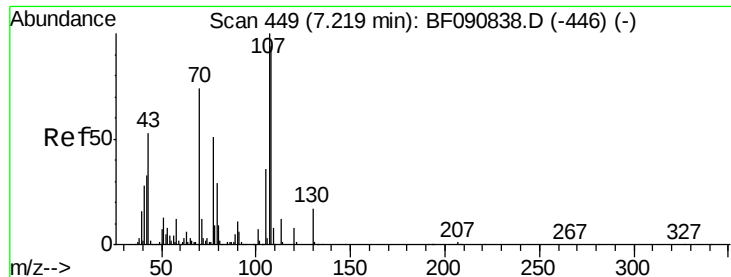
Delta R.T. -0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Tgt Ion:	94	Resp:	51432
Ion	Ratio	Lower	Upper
94	100		
65	26.3	0.7	40.7
66	38.0	0.8	40.8





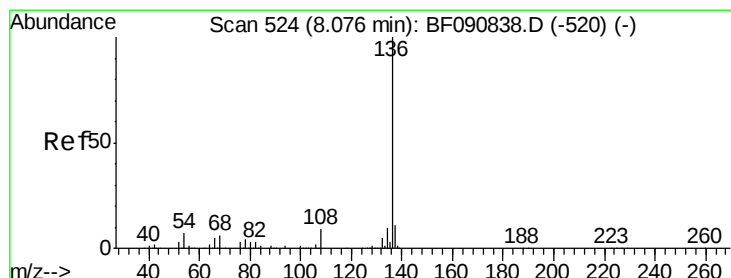
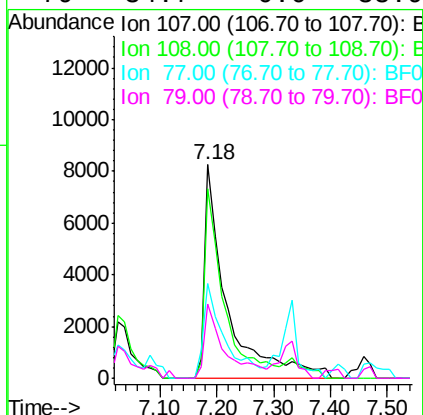
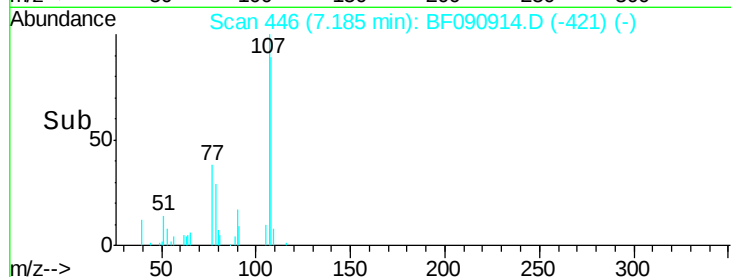
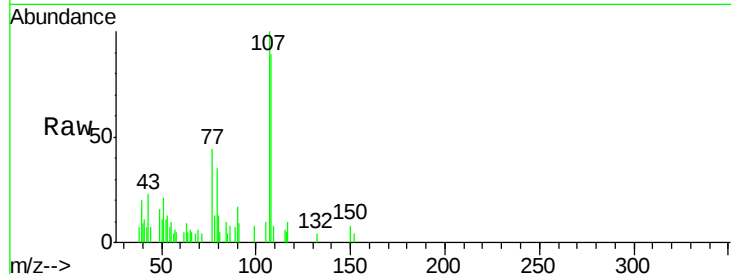
#20
3+4-Methylphenols
Concen: 2.37 ng
RT: 7.18 min Scan# 446
Delta R.T. -0.01 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPRES

Tgt Ion	Ratio	Lower	Upper
107	100		
108	88.5	74.6	114.6
77	44.1	0.7	40.7#
79	34.7	0.0	38.9

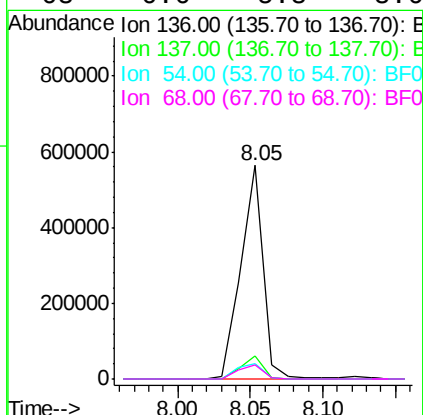
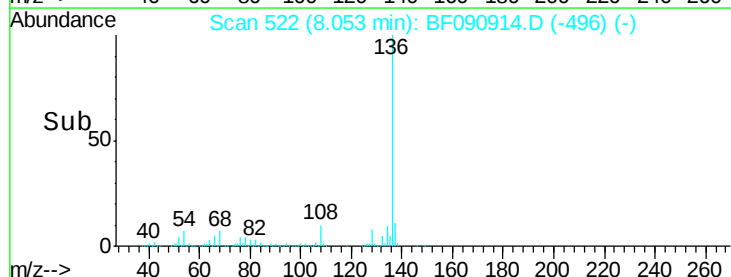
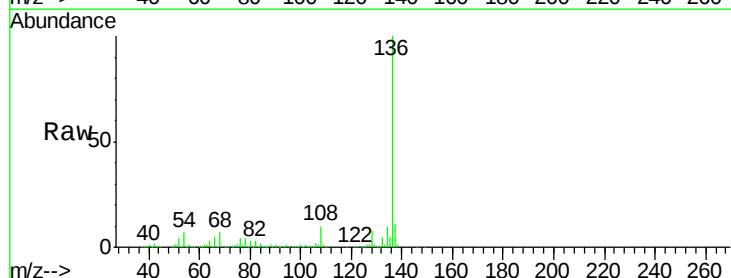
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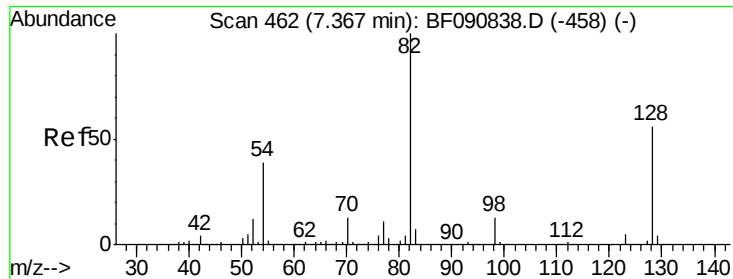
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.05 min Scan# 522
Delta R.T. 0.00 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.6
54	7.2	8.2	12.2#
68	6.6	5.8	8.6





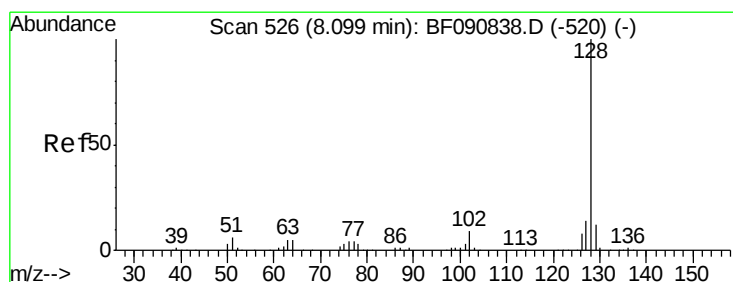
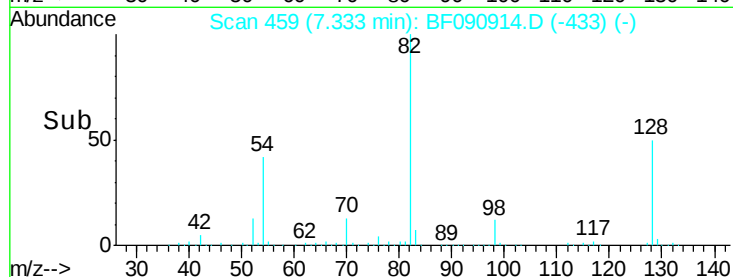
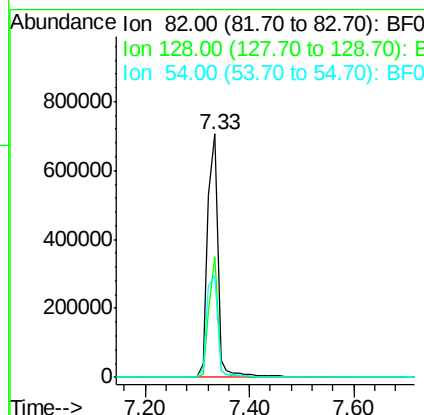
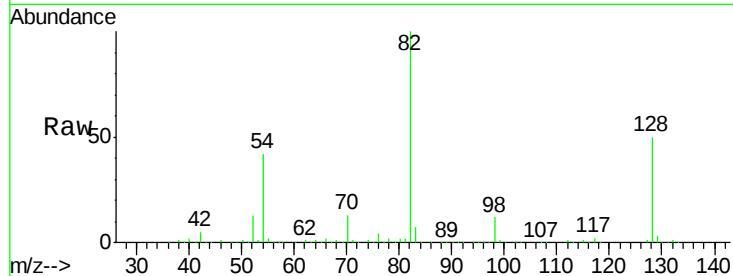
#23
 Nitrobenzene-d5
 Concen: 107.07 ng
 RT: 7.33 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion: 82 Resp: 981577
 Ion Ratio Lower Upper
 82 100
 128 49.6 51.0 76.6#
 54 41.8 47.5 71.3#

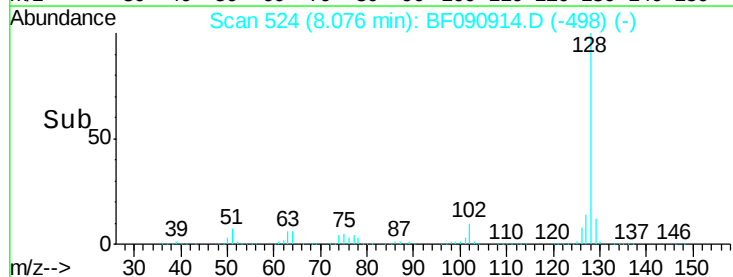
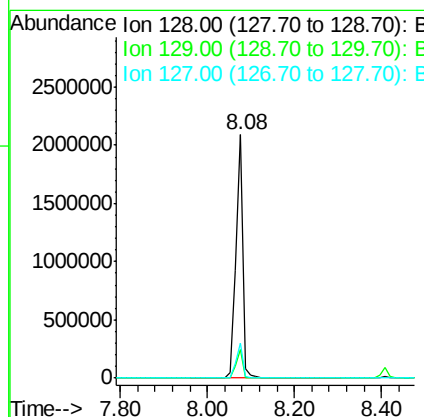
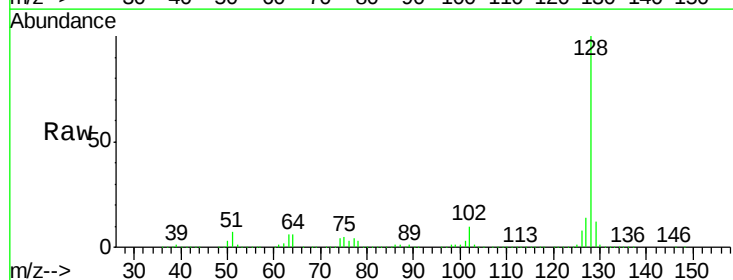
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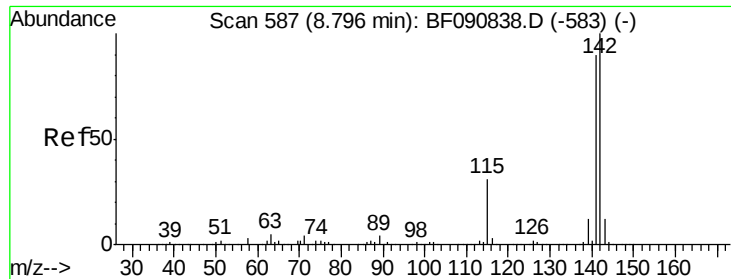
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#31
 Naphthalene
 Concen: 79.05 ng
 RT: 8.08 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Tgt Ion: 128 Resp: 2217802
 Ion Ratio Lower Upper
 128 100
 129 11.9 8.4 12.6
 127 14.3 9.9 14.9





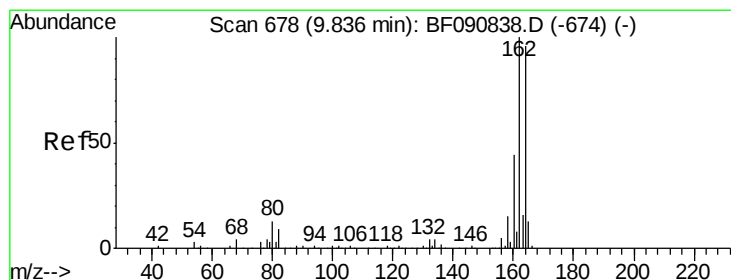
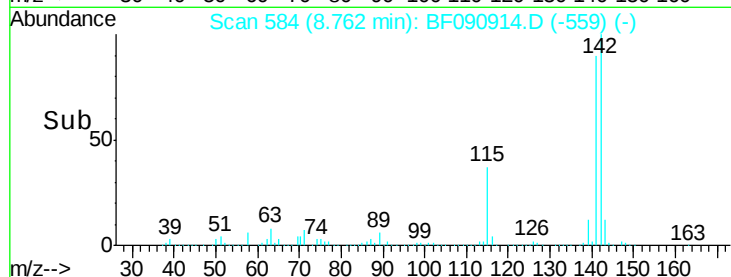
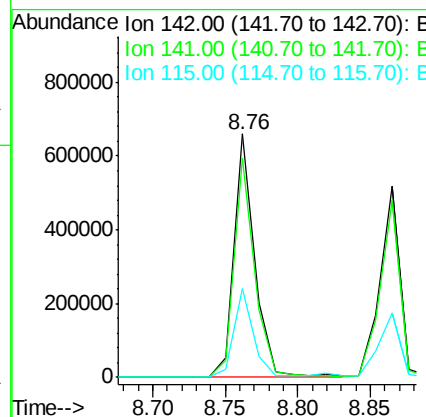
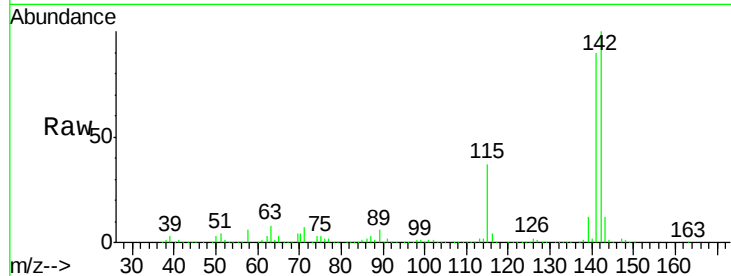
#37
2-Methylnaphthalene
Concen: 36.16 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.0	67.5	101.3
115	36.6	18.2	27.2

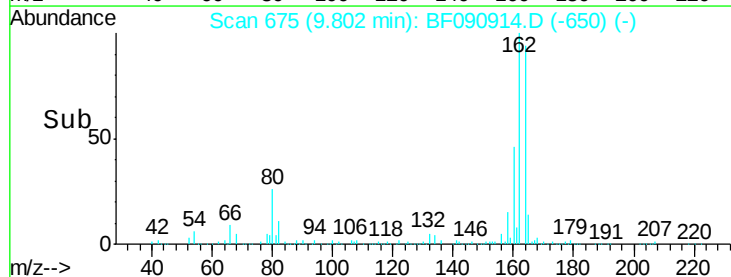
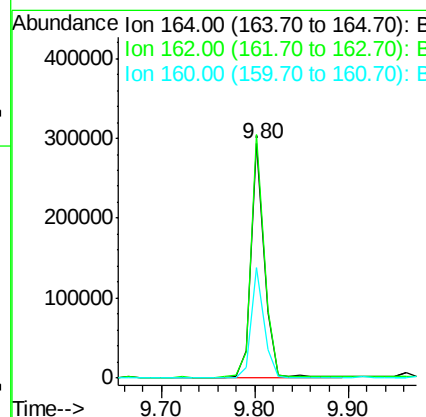
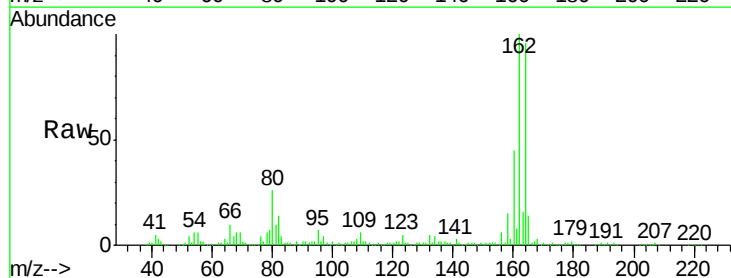
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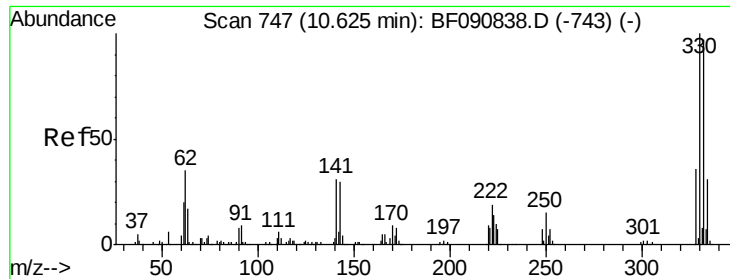
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	75.2	112.8
160	47.1	31.5	47.3





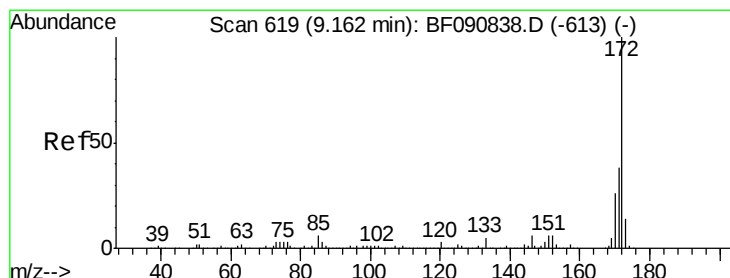
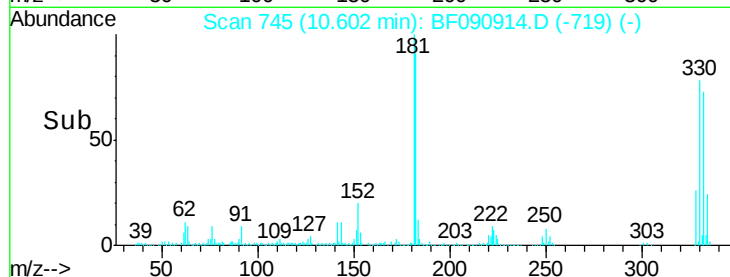
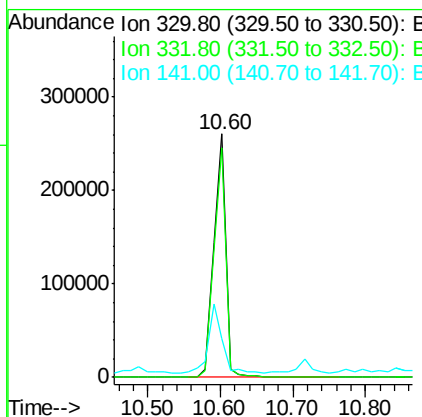
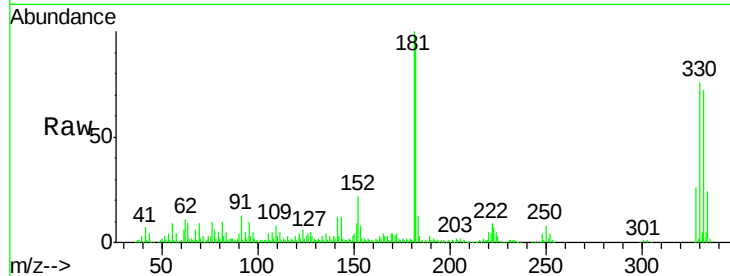
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 2,4,6-Tribromophenol
 Concen: 100.67 ng
 RT: 10.60 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	297569		
332	94.6	76.6	114.8	
141	33.2	29.7	44.5	

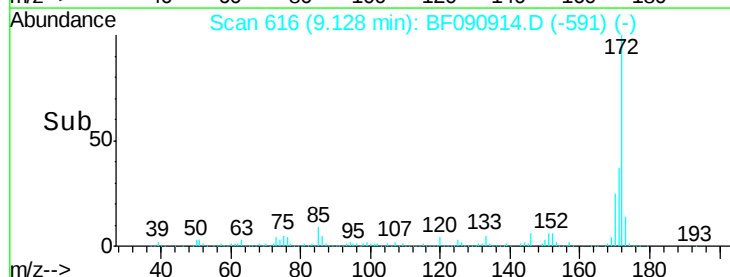
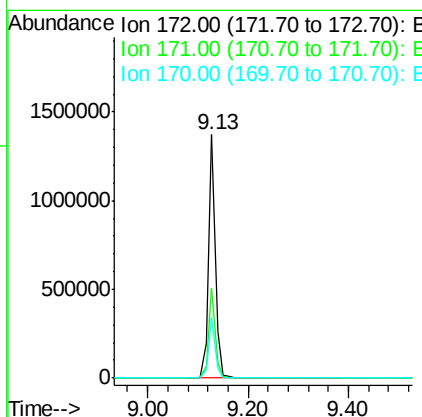
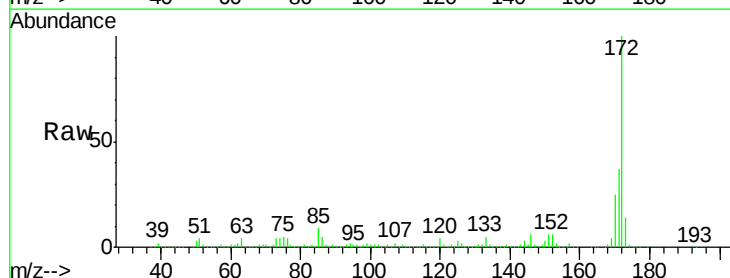
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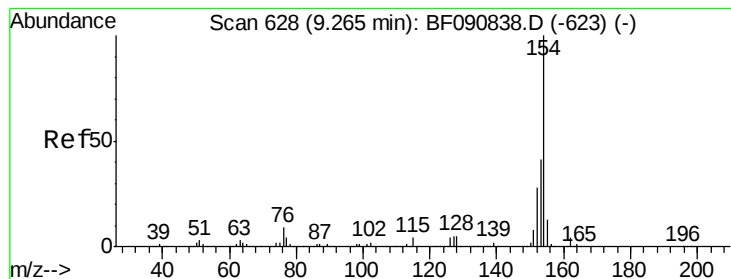
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#44
 2-Fluorobiphenyl
 Concen: 78.95 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1293150		
171	36.8	26.1	39.1	
170	24.9	17.4	26.2	





#45

1,1'-Biphenyl

Concen: 11.77 ng

RT: 9.23 min Scan# 625

Delta R.T. 0.00 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

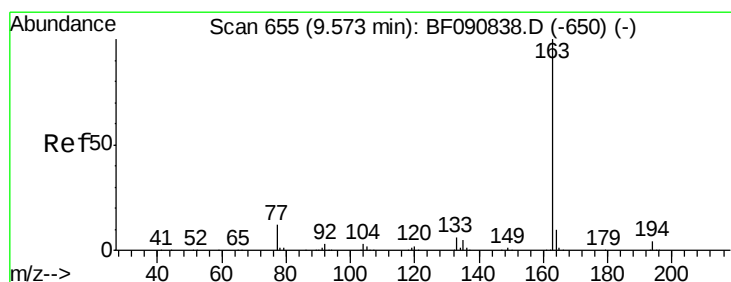
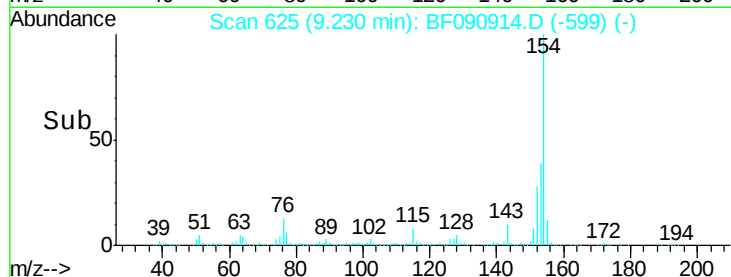
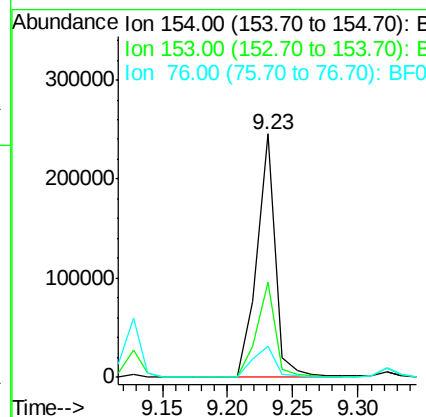
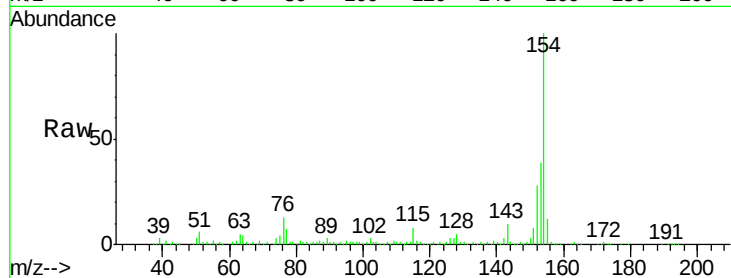
ClientSampleId :

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Tgt Ion:	154	Resp:	243919
Ion Ratio	Lower	Upper	
154	100		
153	39.2	17.1	57.1
76	12.7	0.0	31.6

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#49

Dimethylphthalate

Concen: 16.75 ng

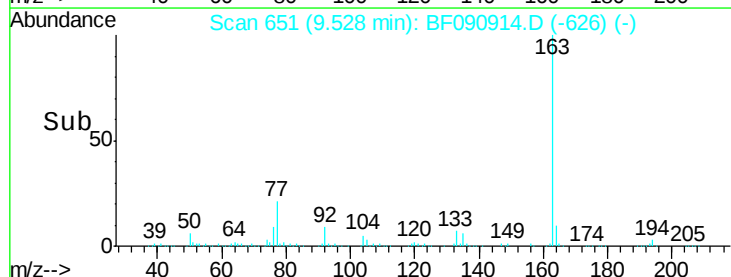
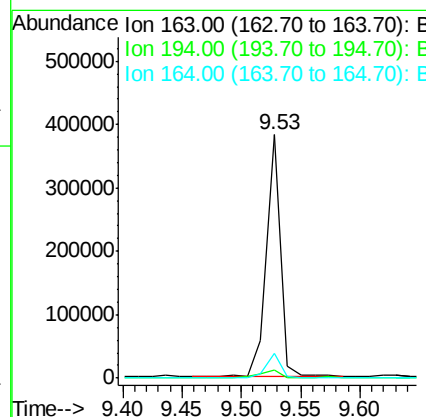
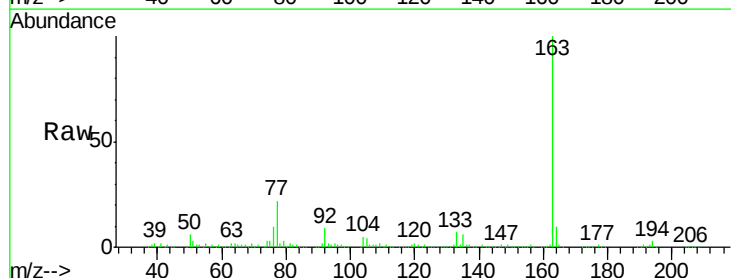
RT: 9.53 min Scan# 651

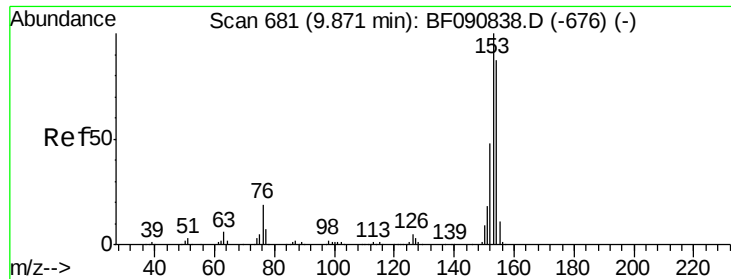
Delta R.T. -0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Tgt Ion:	163	Resp:	321955
Ion Ratio	Lower	Upper	
163	100		
194	3.4	4.4	6.6#
164	10.3	8.3	12.5





#51

Acenaphthene

Concen: 74.78 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF090914.D

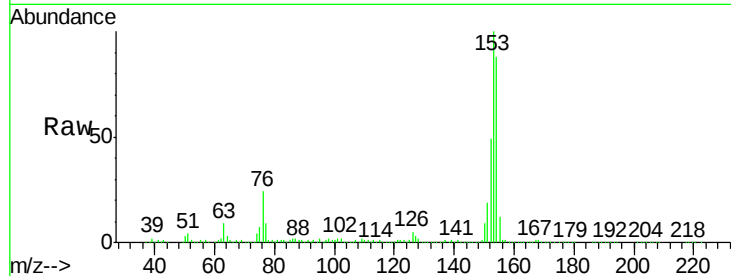
Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampled :

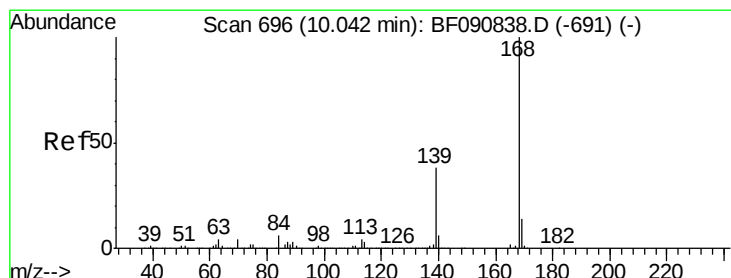
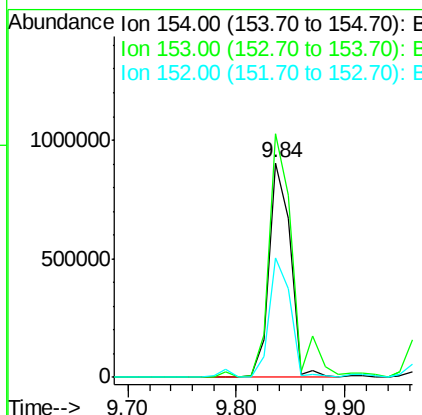
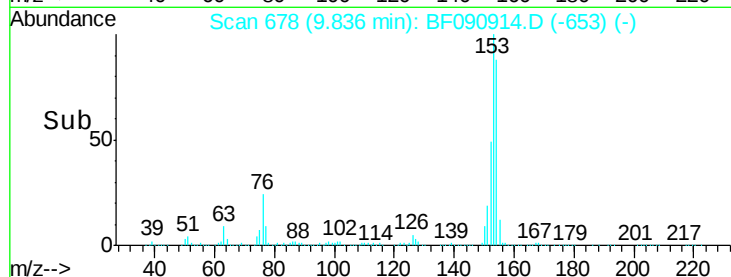
SB-2-COMP



Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.5	82.1	123.1
152	55.7	37.9	56.9

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#54

Dibenzofuran

Concen: 73.50 ng

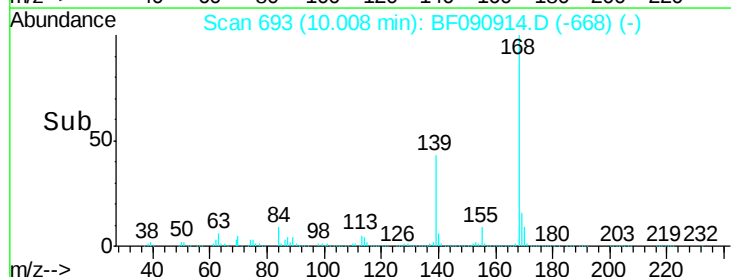
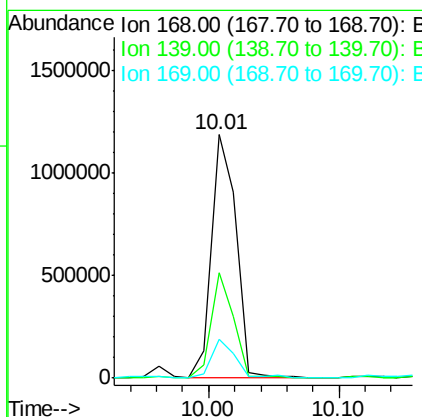
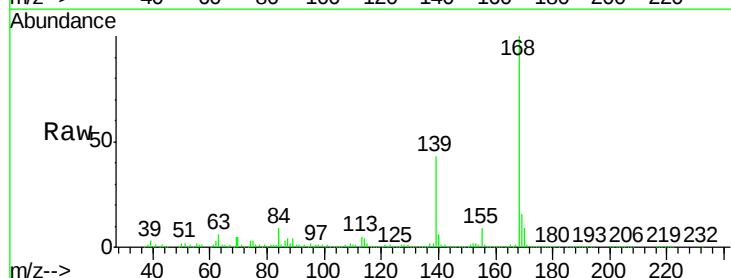
RT: 10.01 min Scan# 693

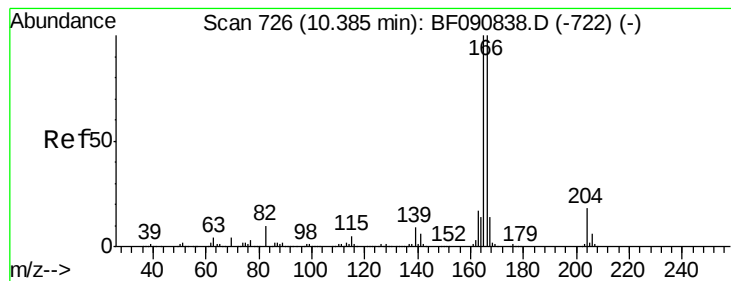
Delta R.T. -0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
168	100		
139	43.1	24.2	36.2#
169	15.8	10.6	15.8





#57

Fluorene

Concen: 75.31 ng

RT: 10.35 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampleId :

SB-2-COMP

Tgt Ion:166 Resp: 1308337

Ion Ratio Lower Upper

166 100

165 99.6 72.6 109.0

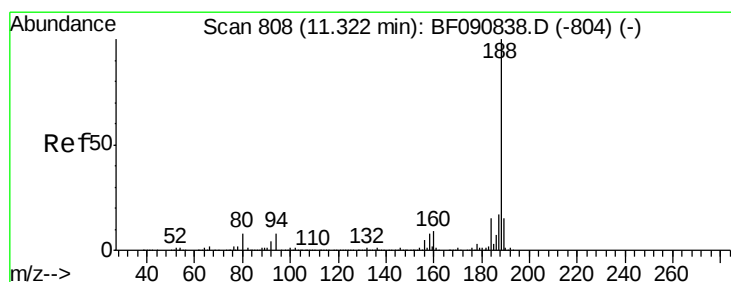
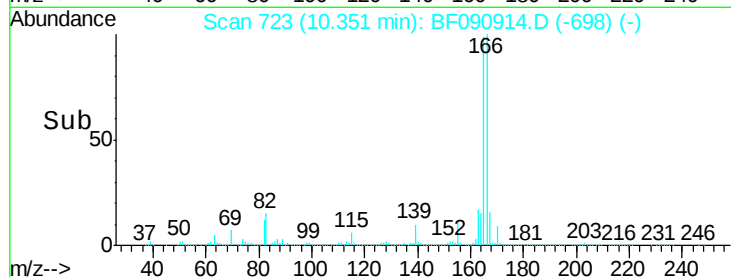
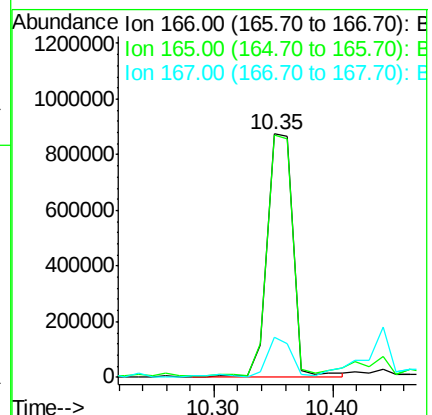
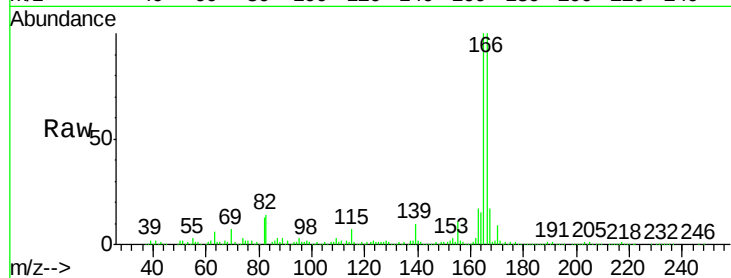
167 16.6 10.6 16.0#

Manual Integrations

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#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 806

Delta R.T. 0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

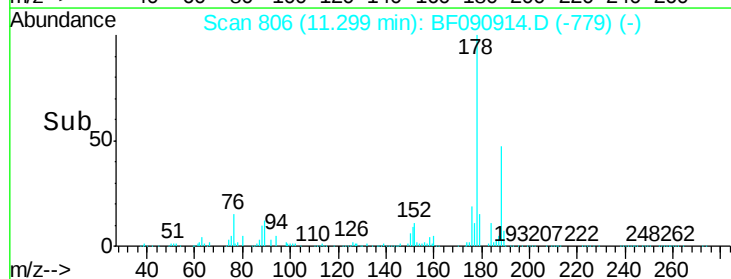
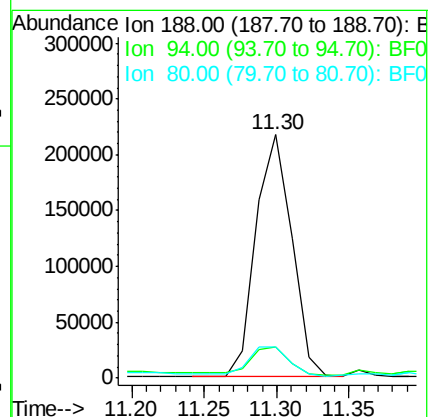
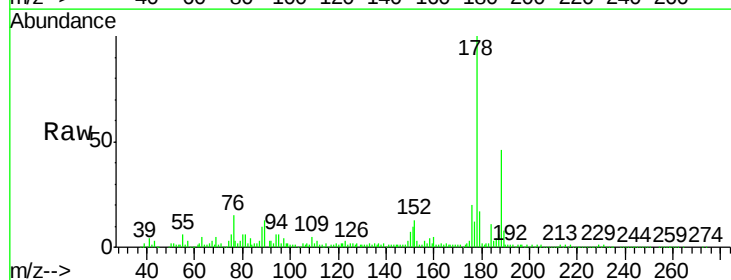
Tgt Ion:188 Resp: 373314

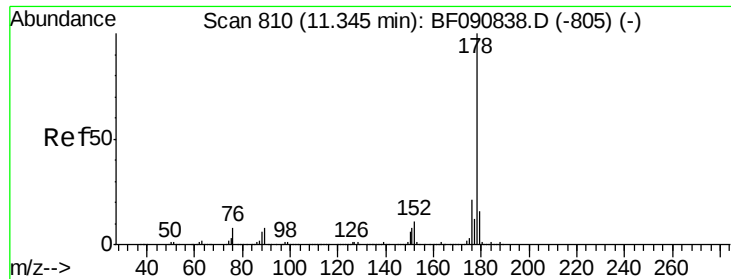
Ion Ratio Lower Upper

188 100

94 12.9 11.1 16.7

80 12.8 11.0 16.4





#70

Phenanthrene

Concen: 358.98 ng

RT: 11.33 min Scan# 809

Delta R.T. 0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampleId :

SB-2-COMPRES

Tgt Ion:178 Resp: 6824573

Ion Ratio Lower Upper

178 100

176 22.5 13.8 20.8#

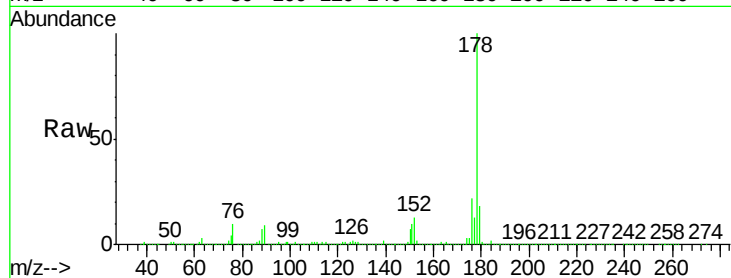
179 17.8 12.2 18.2

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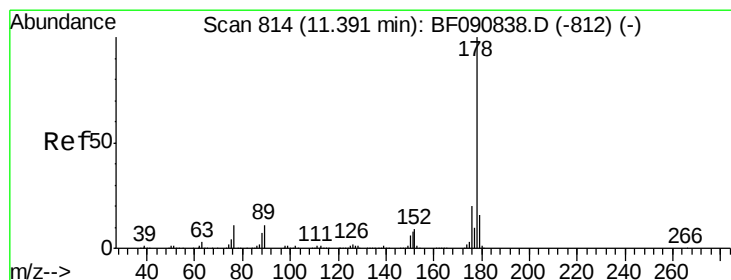
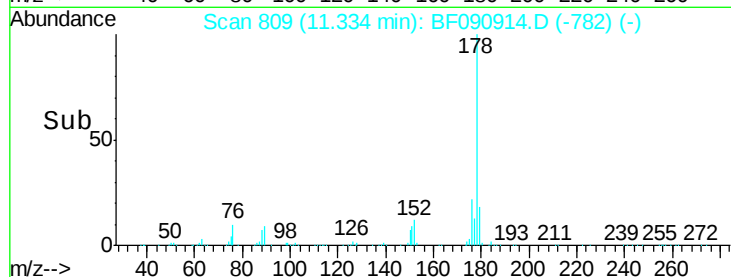
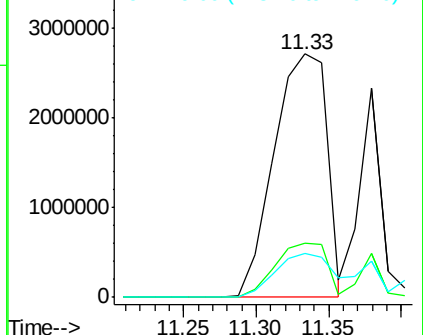
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 96.38 ng

RT: 11.38 min Scan# 813

Delta R.T. 0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

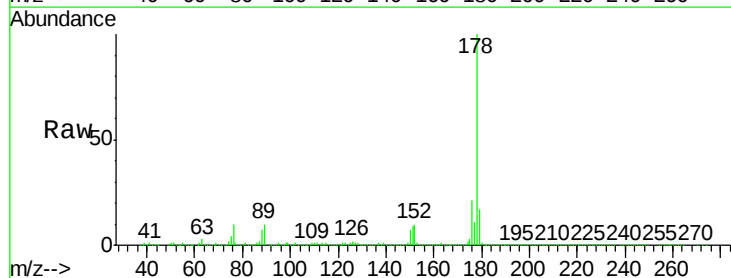
Tgt Ion:178 Resp: 1929417

Ion Ratio Lower Upper

178 100

176 21.3 14.1 21.1#

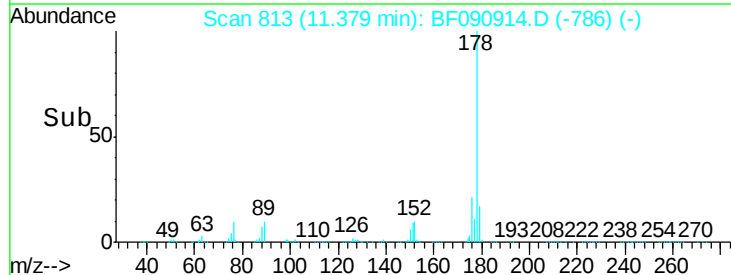
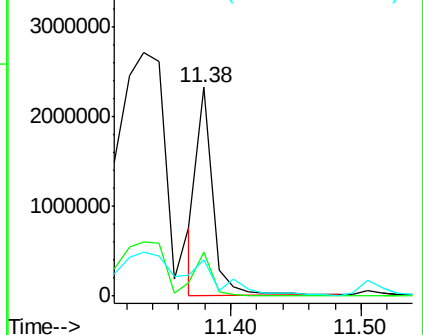
179 17.5 12.2 18.2

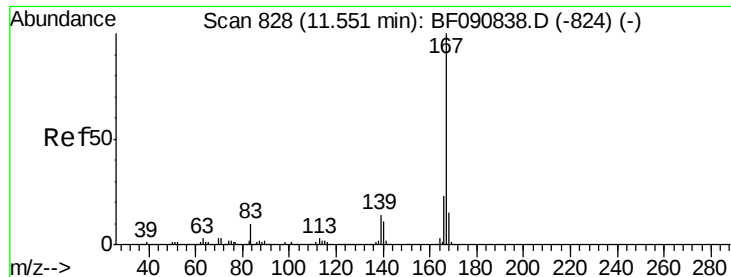


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 70.25 ng

RT: 11.53 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampleId :

SB-2-COMPRES

Tgt Ion:167 Resp: 1241869

Ion Ratio Lower Upper

167 100

166 22.9 15.7 23.5

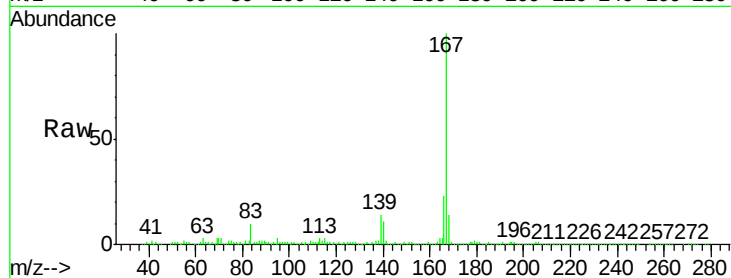
139 14.1 9.5 14.3

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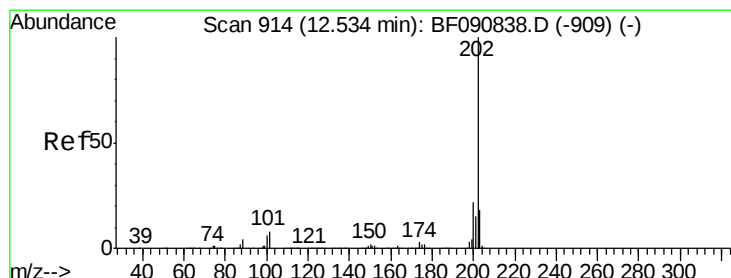
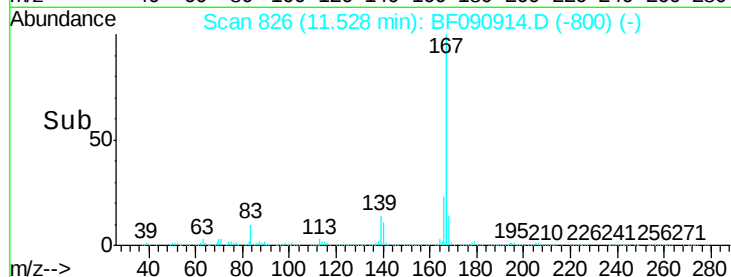
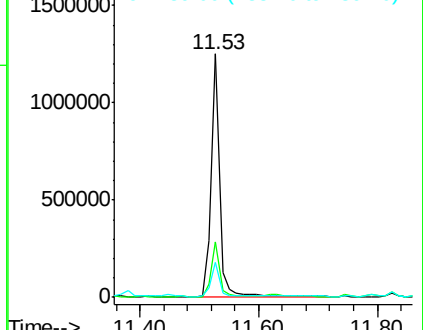
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 291.28 ng

RT: 12.52 min Scan# 913

Delta R.T. 0.02 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

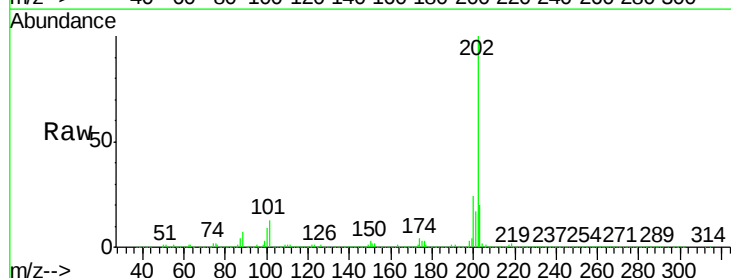
Tgt Ion:202 Resp: 6064135

Ion Ratio Lower Upper

202 100

101 12.7 0.0 38.3

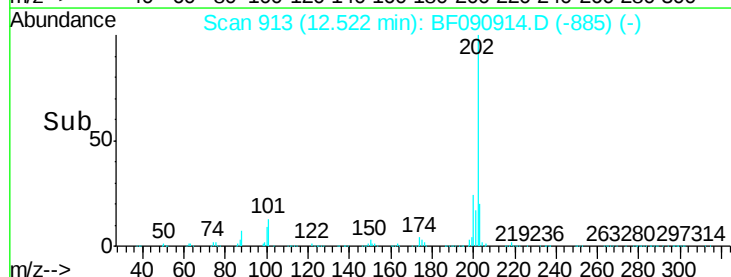
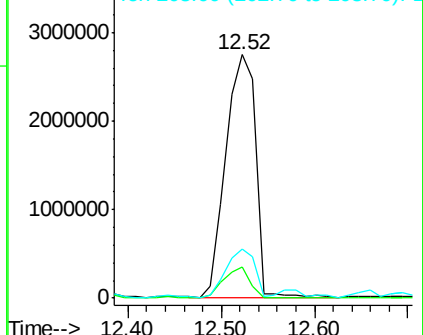
203 19.9 0.0 37.3

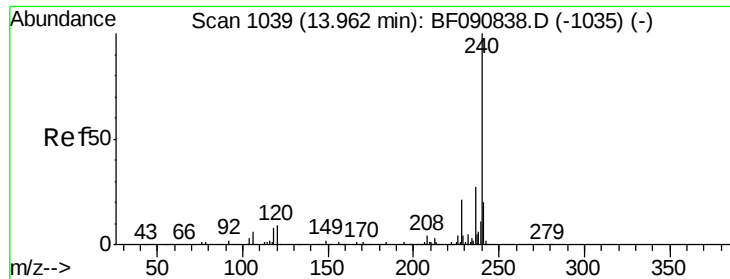


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.95 min Scan# 1038

Delta R.T. 0.02 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

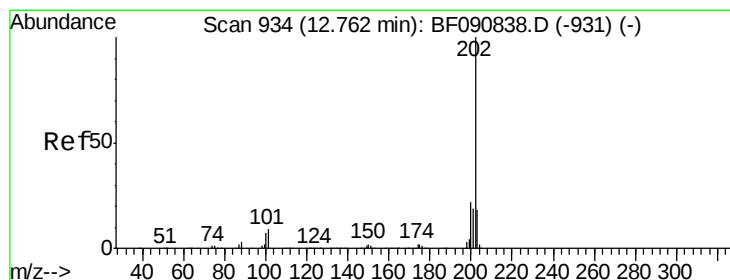
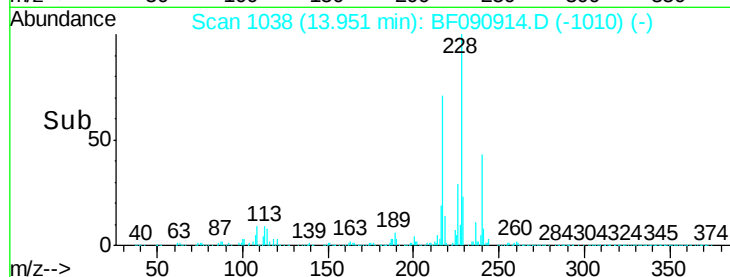
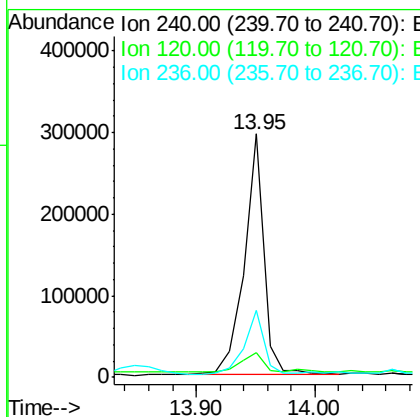
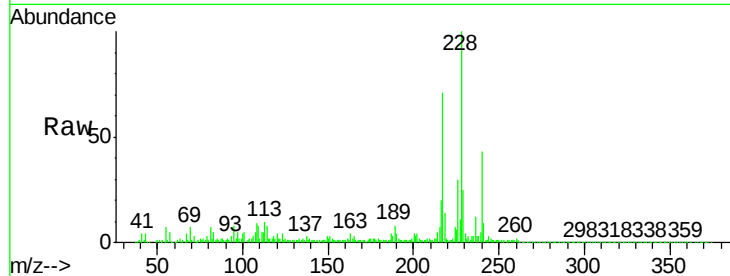
ClientSampleId :

SB-2-COMPRES

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	340855		
120	10.0	16.2	24.2#	
236	27.3	18.4	27.6	

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#77

Pyrene

Concen: 232.59 ng

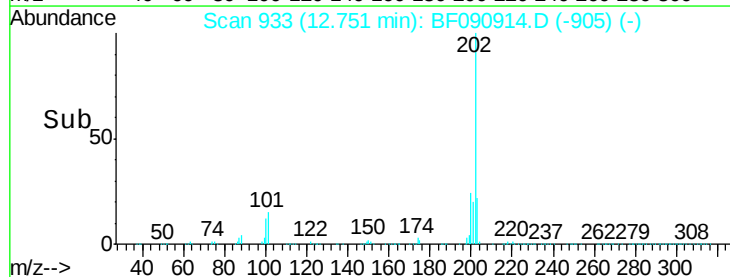
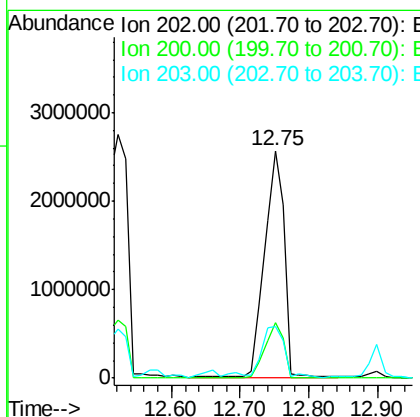
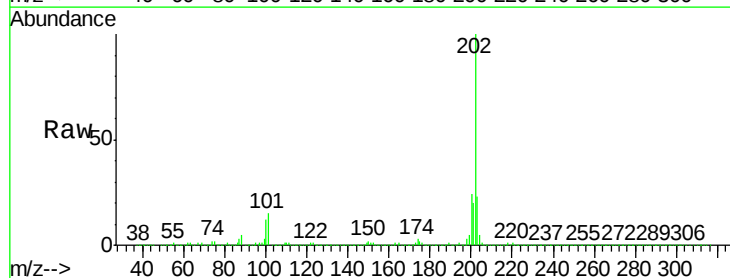
RT: 12.75 min Scan# 933

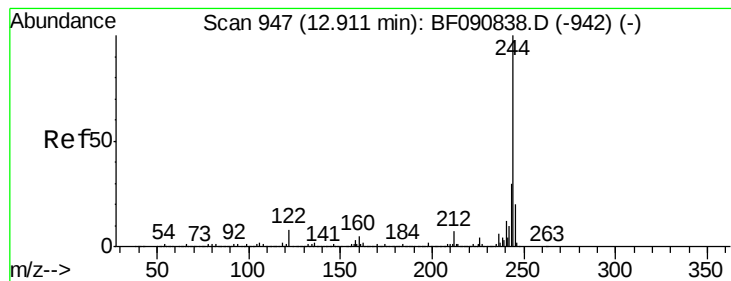
Delta R.T. 0.02 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	5017066		
200	24.4	15.0	22.4#	
203	22.6	14.1	21.1#	





#78

Terphenyl-d14

Concen: 76.70 ng

RT: 12.89 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF090914.D

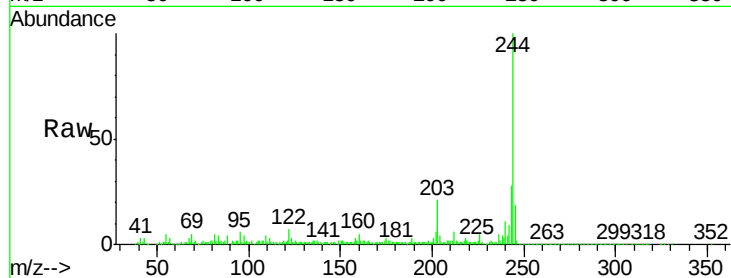
Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampled :

SB-2-COMP



Tgt Ion:244 Resp: 1037715

Ion Ratio Lower Upper

244 100

212 6.3 4.3 6.5

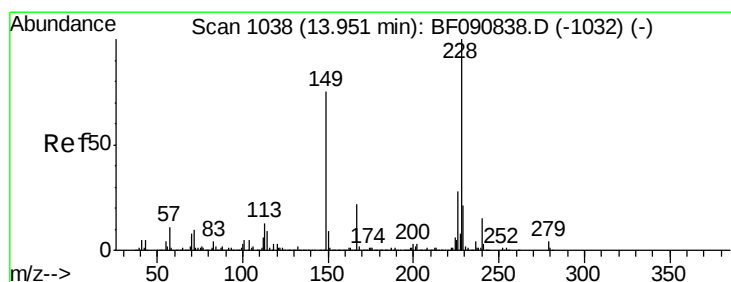
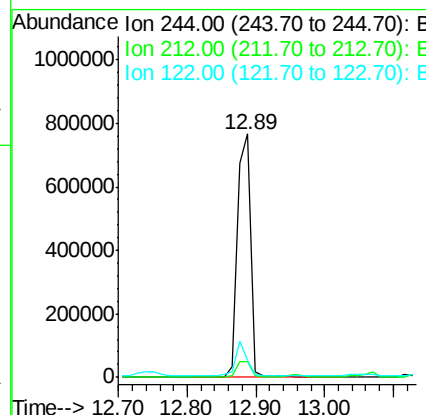
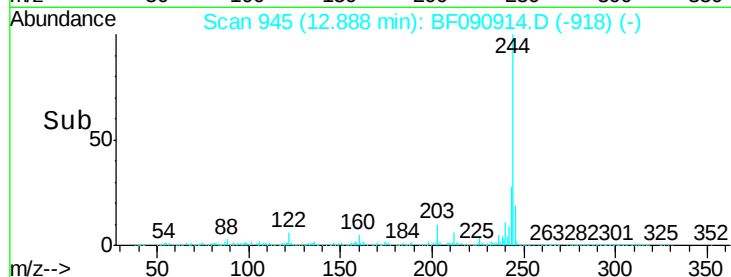
122 6.9 17.4 26.2#

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#80

Benzo(a)anthracene

Concen: 173.37 ng

RT: 13.94 min Scan# 1037

Delta R.T. 0.02 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

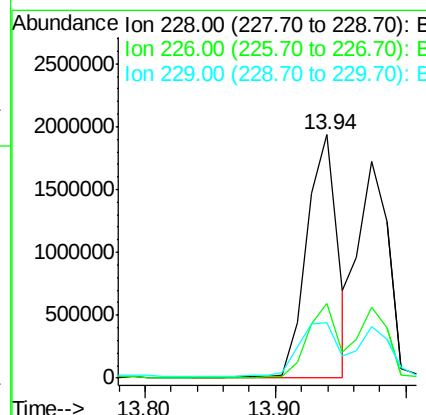
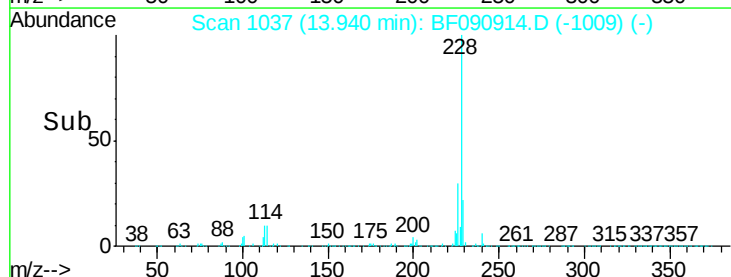
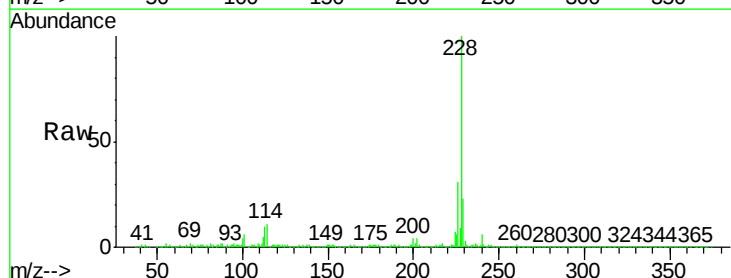
Tgt Ion:228 Resp: 3136226

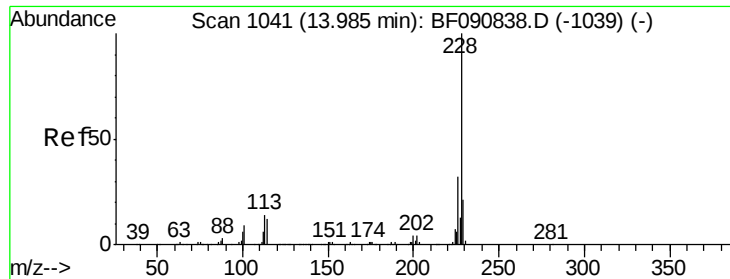
Ion Ratio Lower Upper

228 100

226 30.7 20.0 30.0#

229 22.6 15.4 23.2





#82

Chrysene

Concen: 152.24 ng m

RT: 13.97 min Scan# 1040

Delta R.T. 0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampleId :

SB-2-COMP

Tgt Ion: 228 Resp: 2785630

Ion Ratio Lower Upper

228 100

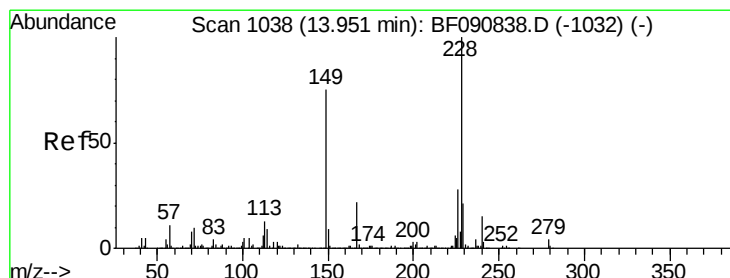
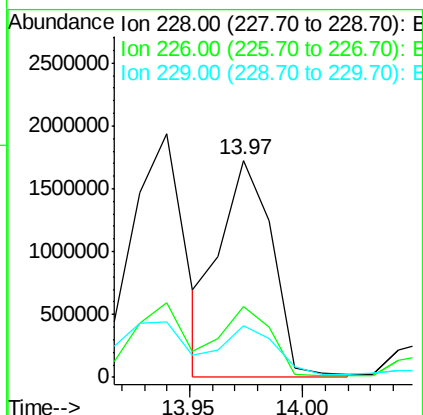
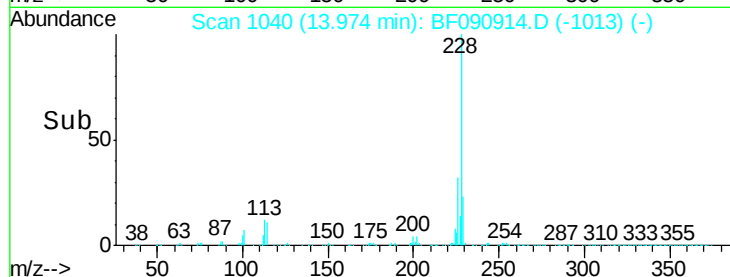
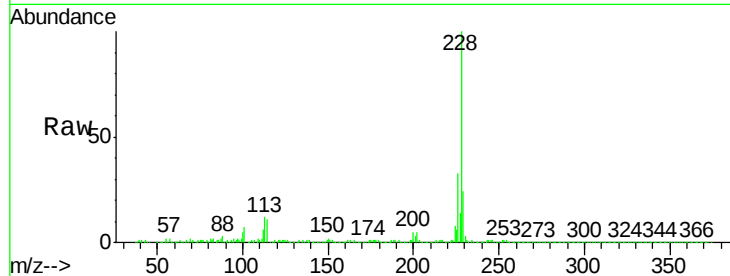
226 32.7 21.0 31.4#

229 24.1 15.6 23.4#

Manual Integrations
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#83

Bis(2-ethylhexyl)phthalate

Concen: 4.20 ng

RT: 13.93 min Scan# 1036

Delta R.T. 0.01 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

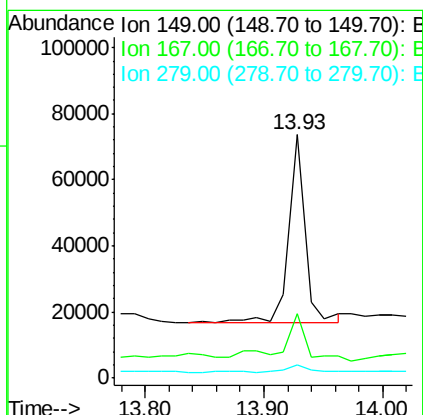
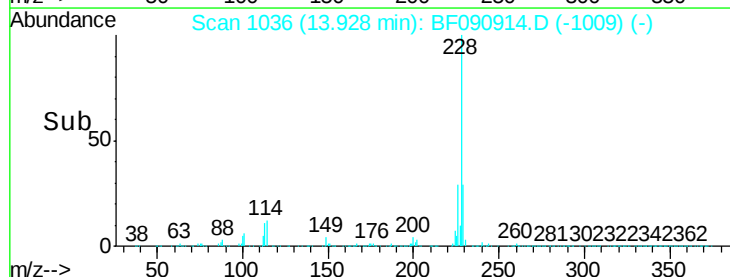
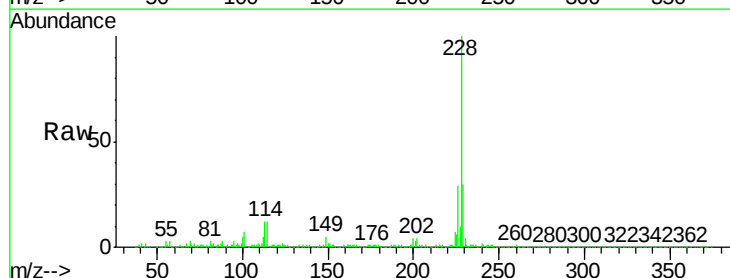
Tgt Ion: 149 Resp: 53476

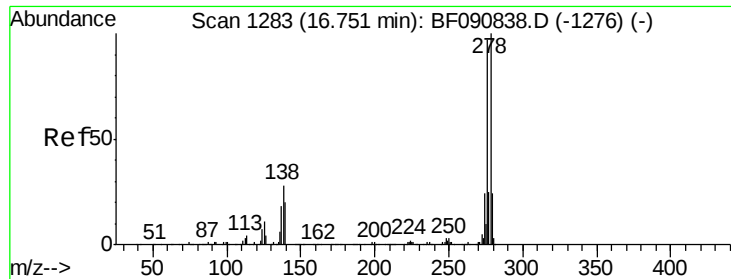
Ion Ratio Lower Upper

149 100

167 26.5 24.2 36.2

279 5.2 3.8 5.6





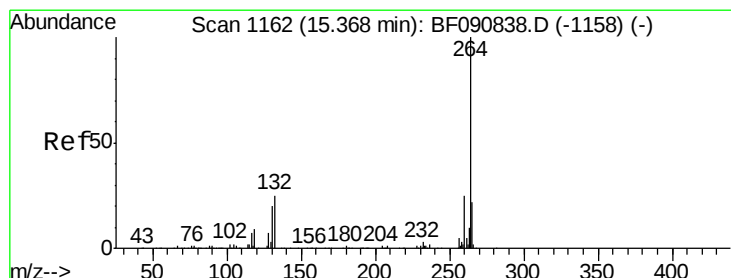
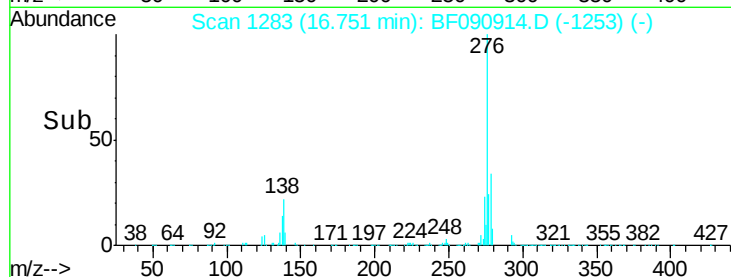
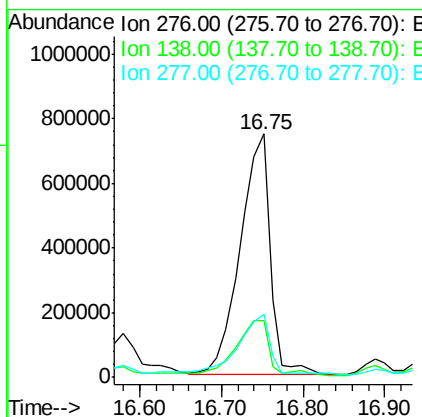
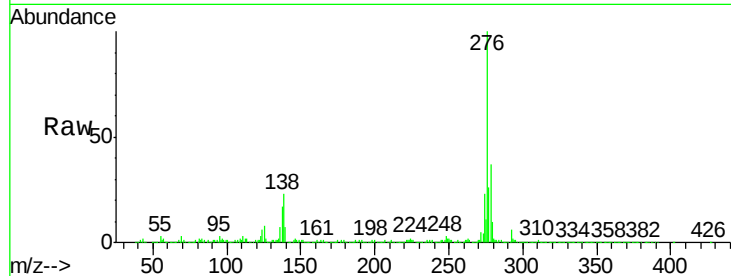
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 117.42 ng
 RT: 16.75 min Scan# 1283
 Delta R.T. 0.05 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion:276 Resp: 1903970
 Ion Ratio Lower Upper
 276 100
 138 26.2 25.7 38.5
 277 25.2 15.6 23.4#

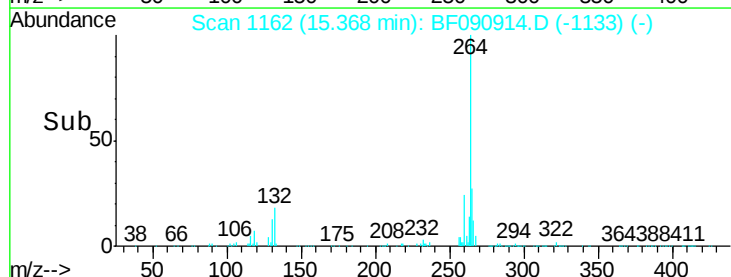
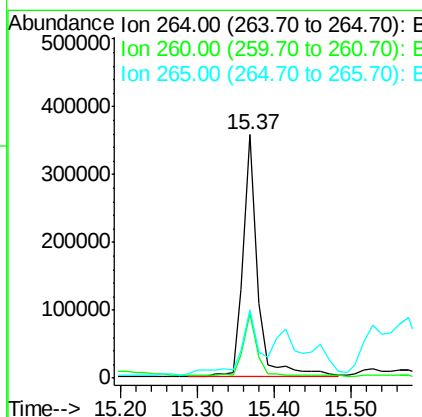
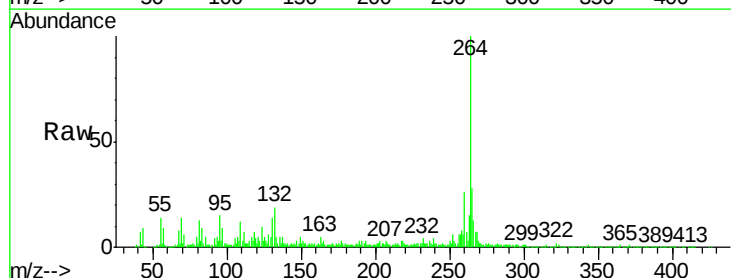
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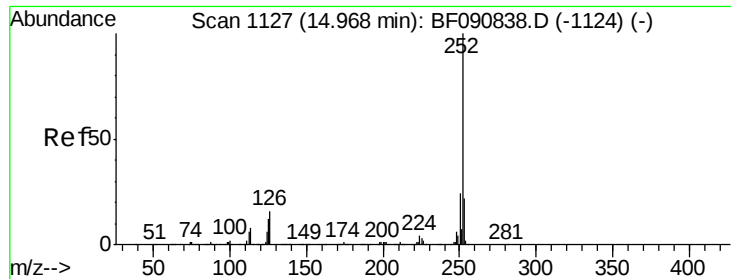
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.37 min Scan# 1162
 Delta R.T. 0.03 min
 Lab File: BF090914.D
 Acq: 28 Oct 2016 18:01

Tgt Ion:264 Resp: 473117
 Ion Ratio Lower Upper
 264 100
 260 26.2 16.7 25.1#
 265 28.1 17.2 25.8#





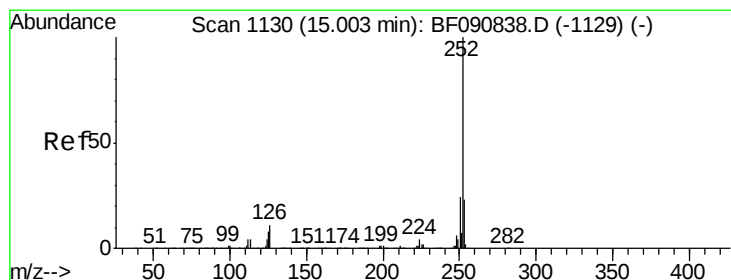
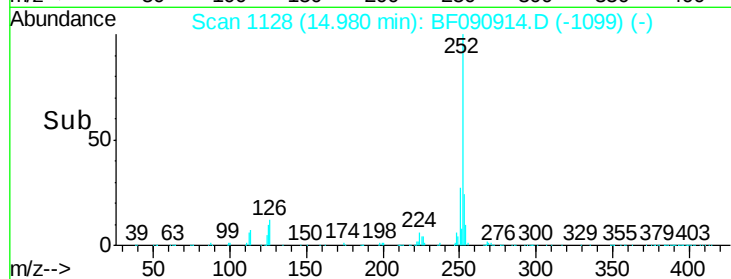
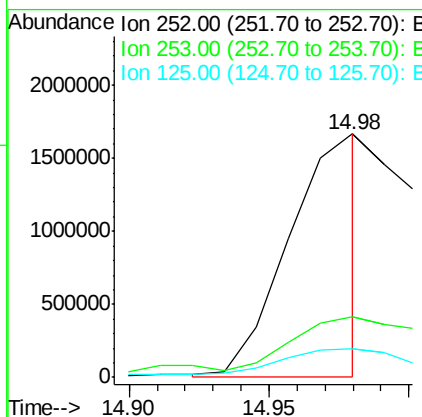
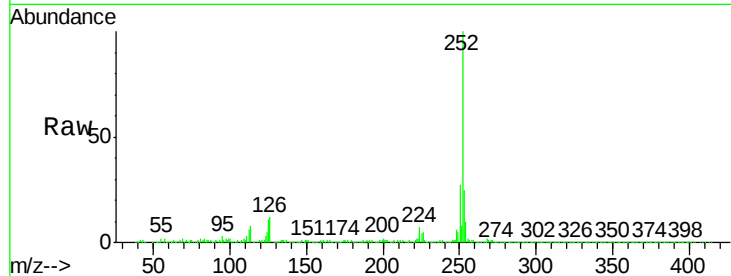
#87
Benzo(b)fluoranthene
Concen: 96.92 ng m
RT: 14.98 min Scan# 1128
Delta R.T. 0.03 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPRES

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.5	26.3
125	11.5	17.1	25.7

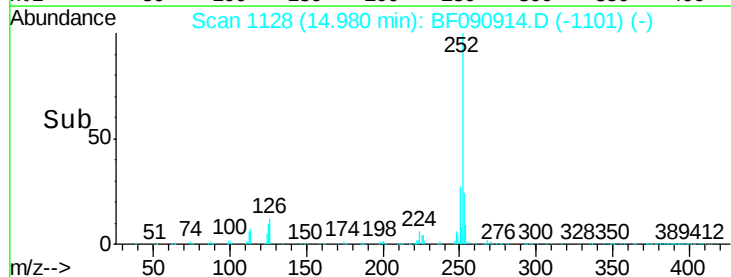
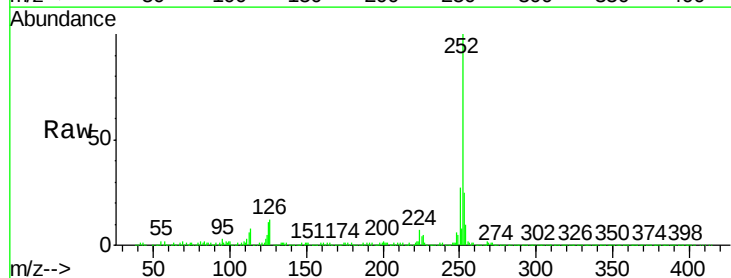
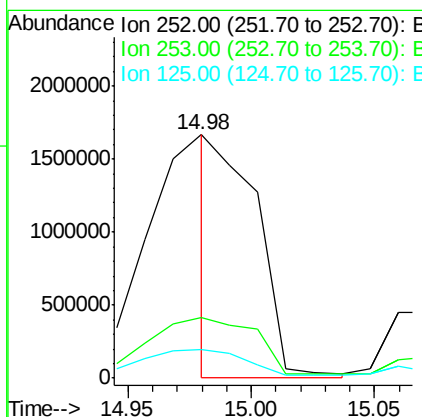
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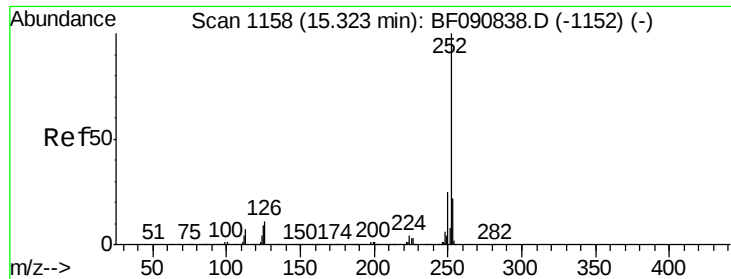
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#88
Benzo(k)fluoranthene
Concen: 78.03 ng m
RT: 14.98 min Scan# 1128
Delta R.T. 0.01 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.0	25.4
125	11.5	16.0	24.0





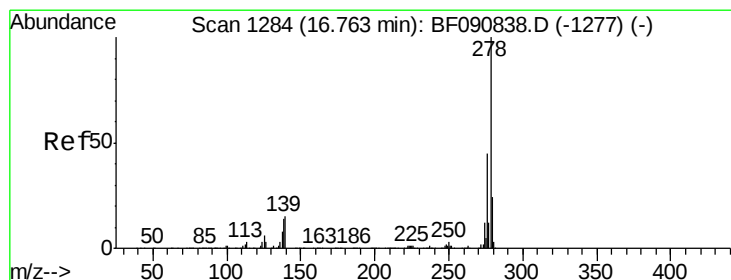
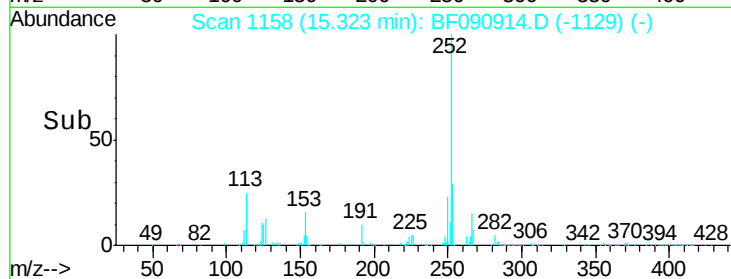
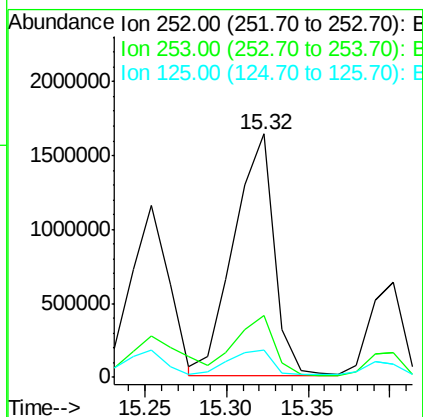
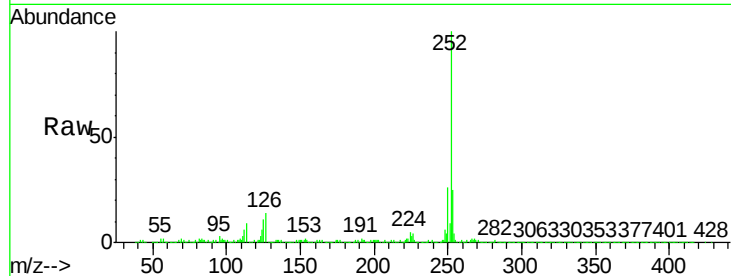
#89
Benzo(a)pyrene
Concen: 101.61 ng
RT: 15.32 min Scan# 1158
Delta R.T. 0.03 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPRES

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.2	25.8
125	11.3	18.0	27.0

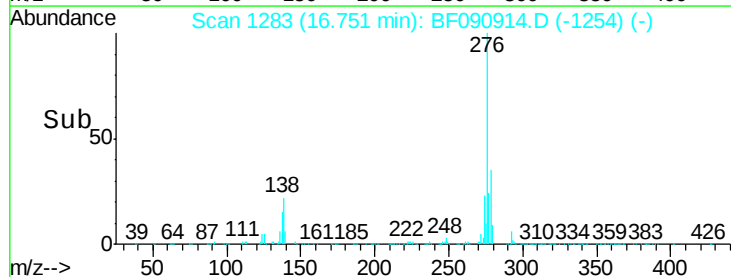
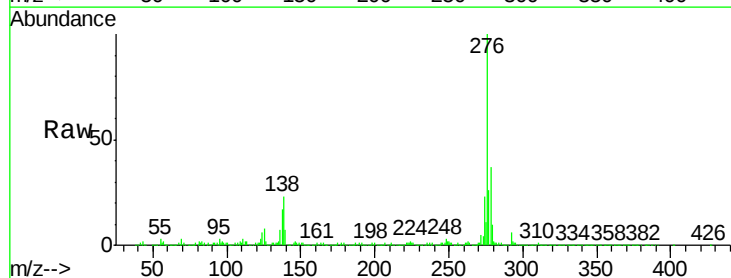
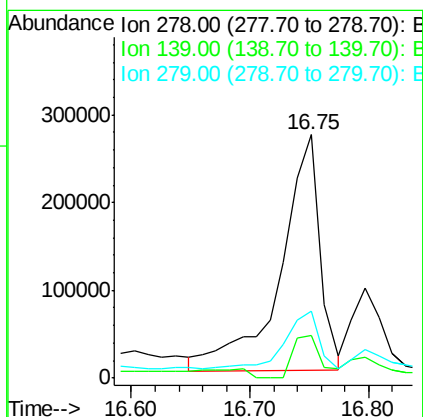
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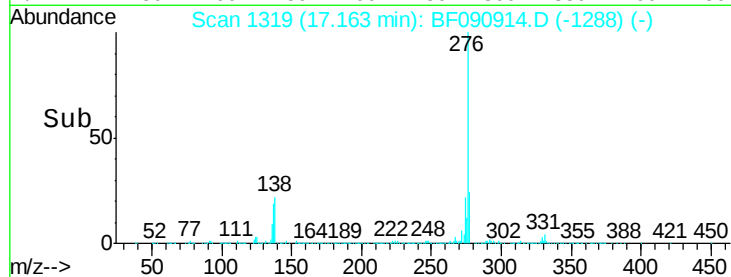
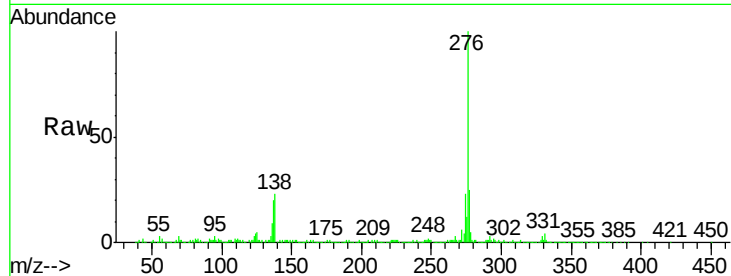
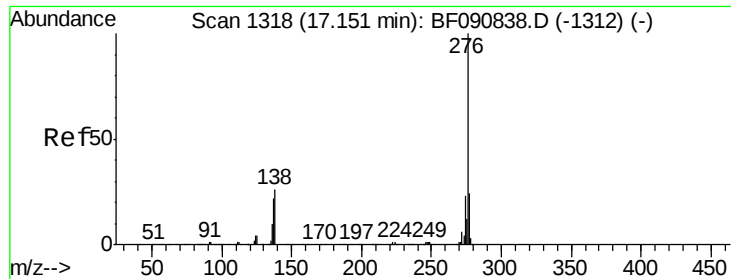
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#90
Dibenzo(a,h)anthracene
Concen: 26.90 ng
RT: 16.75 min Scan# 1283
Delta R.T. 0.03 min
Lab File: BF090914.D
Acq: 28 Oct 2016 18:01

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.7	26.3	39.5
279	27.7	18.2	27.4





#91

Benzo(g,h,i)perylene

Concen: 73.48 ng

RT: 17.16 min Scan# 1319

Delta R.T. 0.06 min

Lab File: BF090914.D

Acq: 28 Oct 2016 18:01

Instrument :

BNA_F

ClientSampleId :

SB-2-COMP

Tgt Ion: 276 Resp: 1601475

Ion Ratio Lower Upper

276 100

277 25.3 17.8 26.6

138 23.3 34.6 51.8#

Manual Integrations

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