

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102816\
 Data File : BF090910.D
 Acq On : 28 Oct 2016 16:04
 Operator : UM/SJ
 Sample : H5422-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

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Quant Time: Oct 28 17:42:58 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	152194	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	587997	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	266661	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	369771	20.00	ng	0.01
75) Chrysene-d12	13.95	240	330890	20.00	ng	0.02
86) Perylene-d12	15.37	264	448779	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1111757	127.72	ng	0.00
7) Phenol-d6	6.41	99	1517591	129.23	ng	-0.01
23) Nitrobenzene-d5	7.33	82	1009163	112.35	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	283363	103.40	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	1275793	84.01	ng	-0.01
78) Terphenyl-d14	12.89	244	1070018	81.47	ng	0.01

Target Compounds				Qvalue		
10) Phenol	6.42	94	54535	4.21	ng	72
20) 3+4-Methylphenols	7.18	107	22870	2.42	ng	# 79
31) Naphthalene	8.08	128	2148342	78.16	ng	95
37) 2-Methylnaphthalene	8.76	142	642078	36.17	ng	# 88
45) 1,1'-Biphenyl	9.23	154	244149	12.71	ng	95
48) Acenaphthylene	9.66	152	50312	2.27	ng	# 72
49) Dimethylphthalate	9.53	163	307623	17.27	ng	# 97
51) Acenaphthene	9.85	154	1274664	83.66	ng	87
54) Dibenzofuran	10.02	168	1566697	79.68	ng	94
57) Fluorene	10.36	166	1334708	82.87	ng	92
70) Phenanthrene	11.33	178	6727945	357.29	ng	# 91
71) Anthracene	11.38	178	2203633	111.14	ng	93
72) Carbazole	11.53	167	1204543	68.79	ng	# 93
74) Fluoranthene	12.53	202	5807240	281.61	ng	90
77) Pyrene	12.76	202	5007381	239.13	ng	# 90
80) Benzo(a)anthracene	13.94	228	3598473	204.92	ng	# 89
82) Chrysene	13.99	228	2421668	136.34	ng	# 87
83) Bis(2-ethylhexyl)phthalate	13.93	149	52231	4.22	ng	95
85) Indeno(1,2,3-cd)pyrene	16.74	276	1546606	98.26	ng	# 89
87) Benzo(b)fluoranthene	14.98	252	3819065m	126.56	ng	
88) Benzo(k)fluoranthene	15.00	252	1165349m	48.87	ng	
89) Benzo(a)pyrene	15.32	252	2623899	101.20	ng	# 84
90) Dibenzo(a,h)anthracene	16.75	278	531577	24.22	ng	# 81
91) Benzo(g,h,i)perylene	17.15	276	1240060	59.98	ng	# 81

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

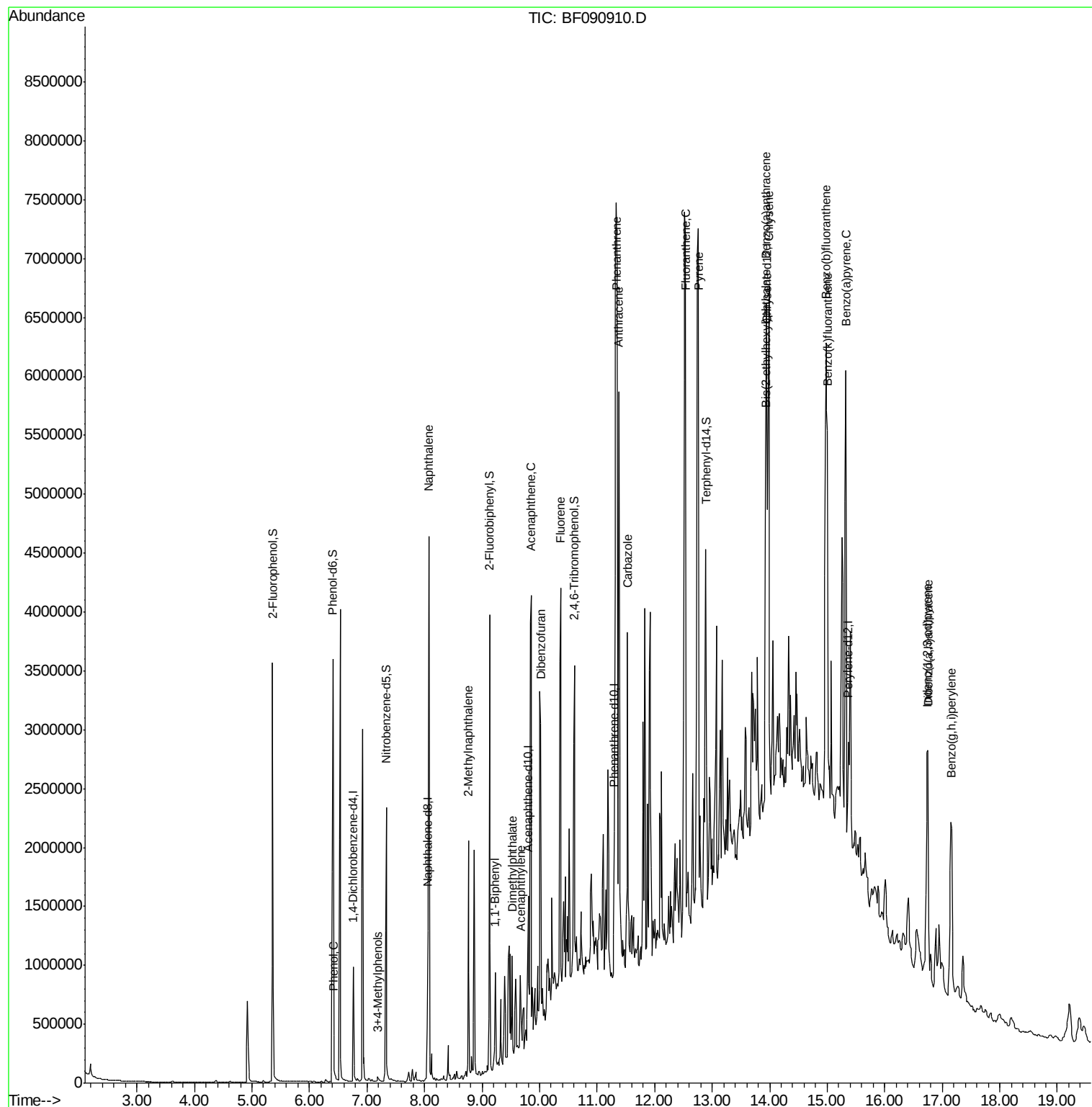
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102816\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. 0.00 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Instrument :

BNA_F

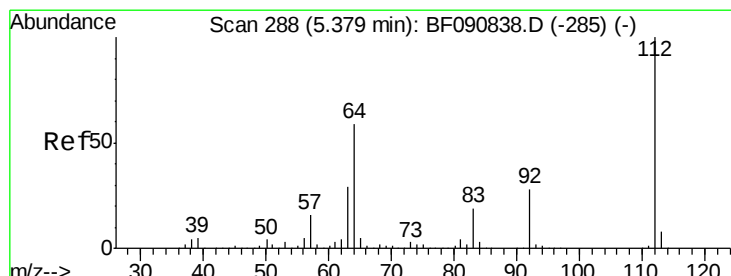
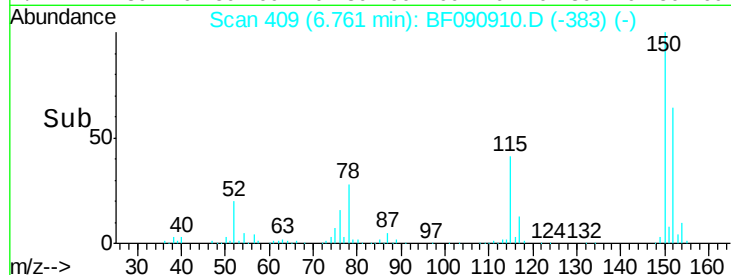
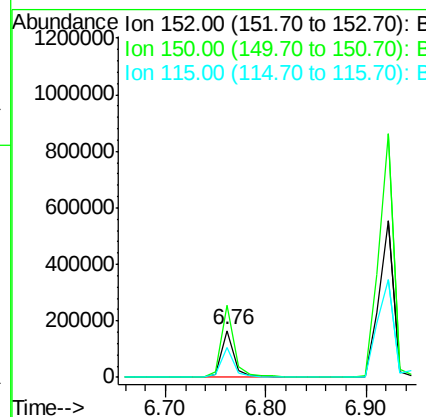
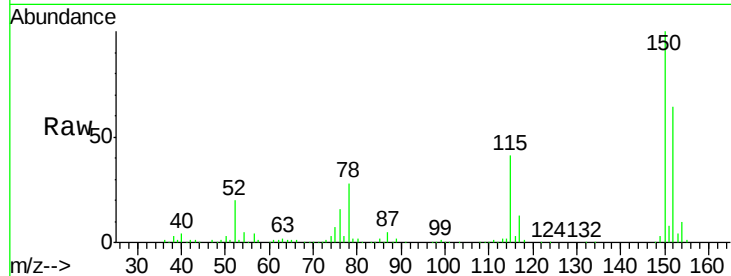
ClientSampleId :

SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.7	187.1
115	63.4	39.0	58.4

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#5

2-Fluorophenol

Concen: 127.72 ng

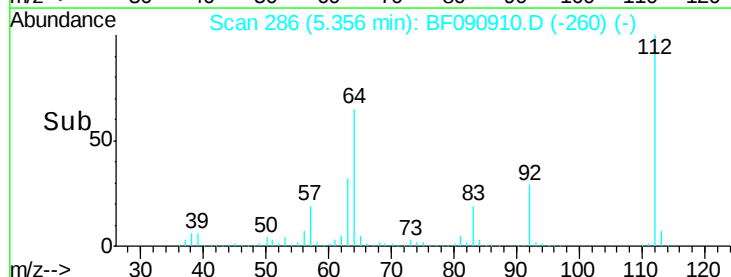
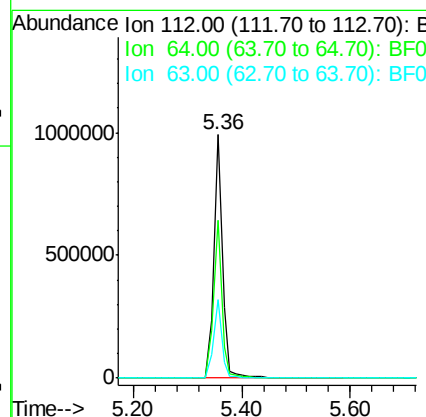
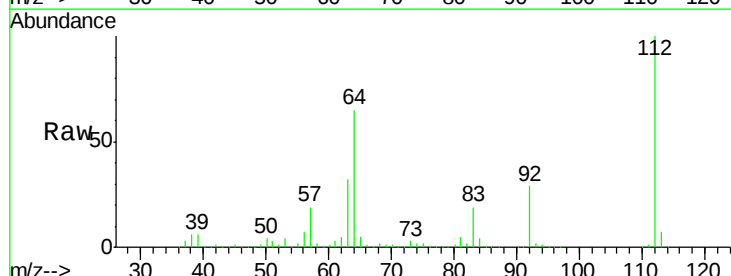
RT: 5.36 min Scan# 286

Delta R.T. 0.00 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.9	39.7	59.5
63	32.5	17.4	26.0





#7

Phenol-d6

Concen: 129.23 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Instrument :

BNA_F

ClientSampleId :

SB-2-COMP

Tgt Ion: 99 Resp: 1517591

Ion Ratio Lower Upper

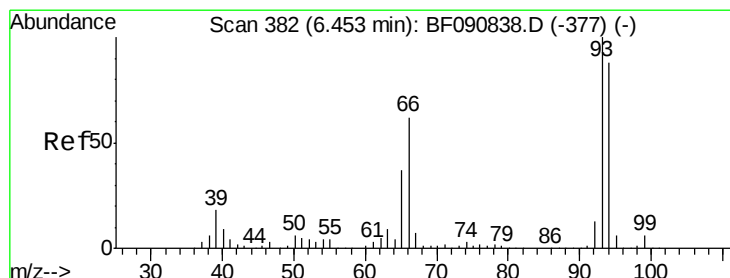
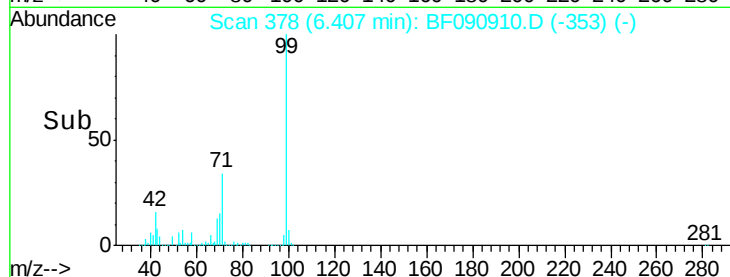
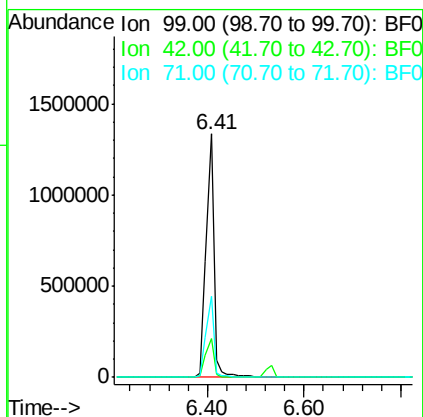
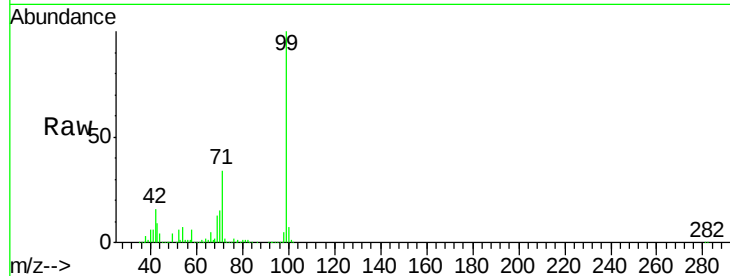
99 100

42 16.0 13.7 20.5

71 33.5 14.2 21.2#

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#10

Phenol

Concen: 4.21 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

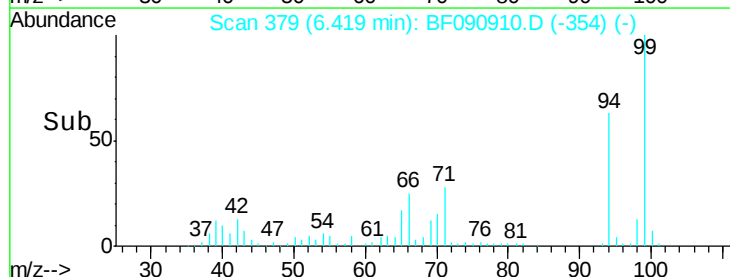
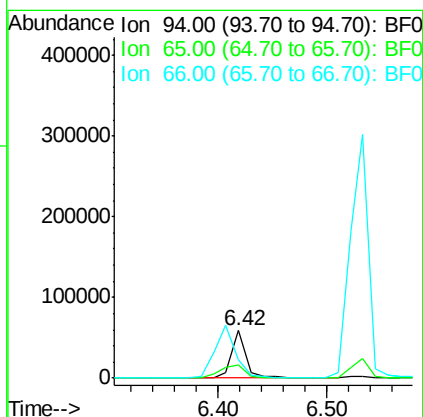
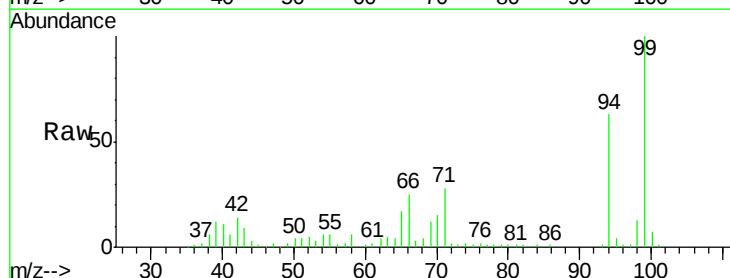
Tgt Ion: 94 Resp: 54535

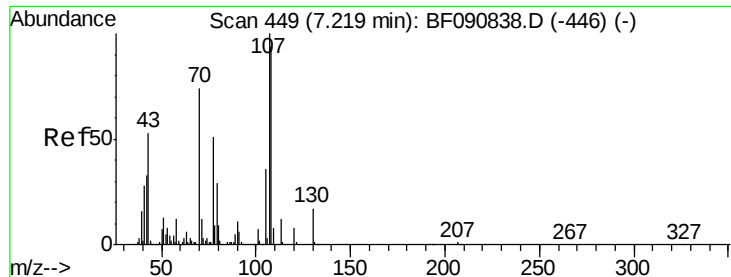
Ion Ratio Lower Upper

94 100

65 27.4 0.7 40.7

66 39.9 0.8 40.8





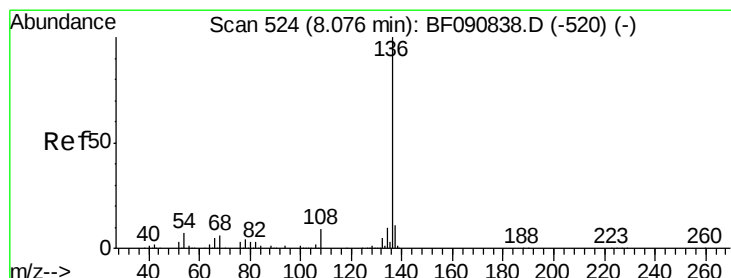
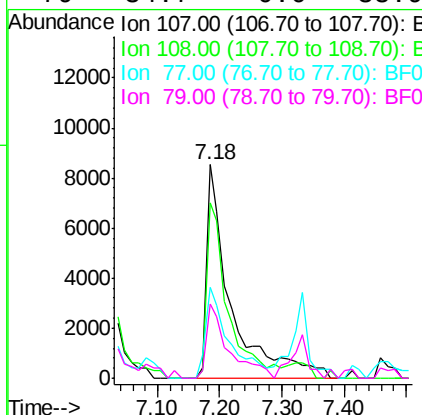
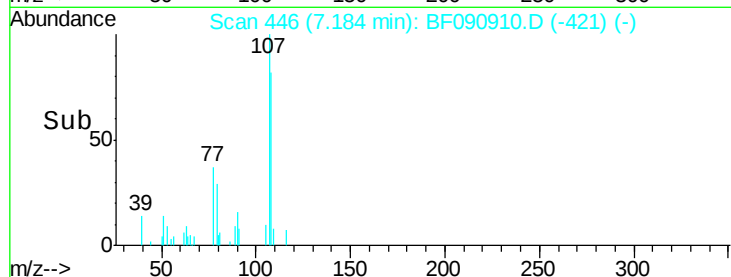
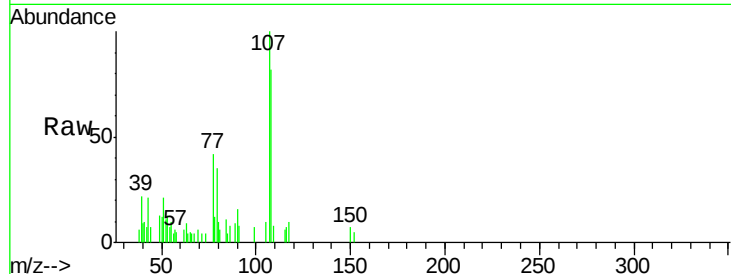
#20
3+4-Methylphenols
Concen: 2.42 ng
RT: 7.18 min Scan# 446
Delta R.T. -0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	22870		
108	81.8	74.6	114.6	
77	42.3	0.7	40.7#	
79	34.7	0.0	38.9	

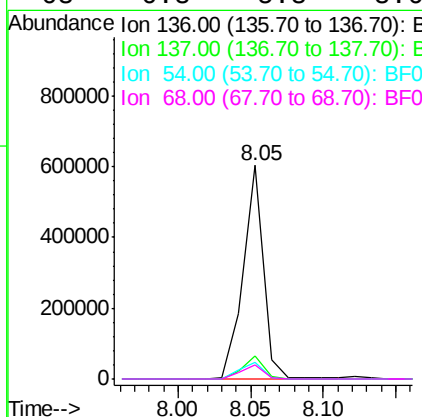
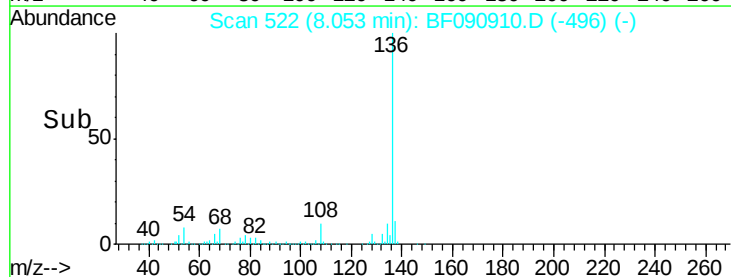
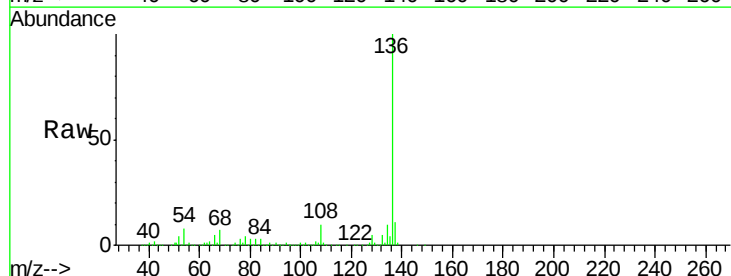
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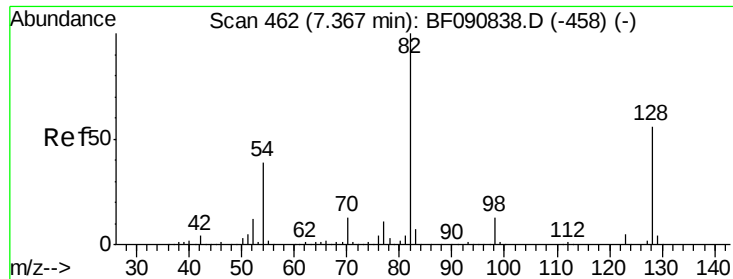
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.05 min Scan# 522
Delta R.T. 0.00 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	587997		
137	10.8	9.0	13.6	
54	7.6	8.2	12.2#	
68	6.8	5.8	8.6	





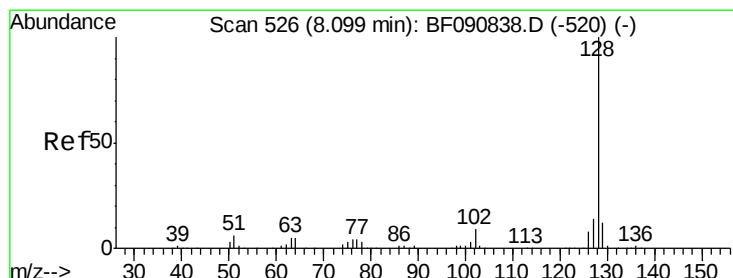
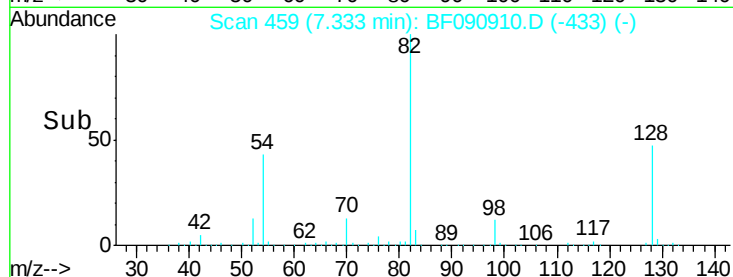
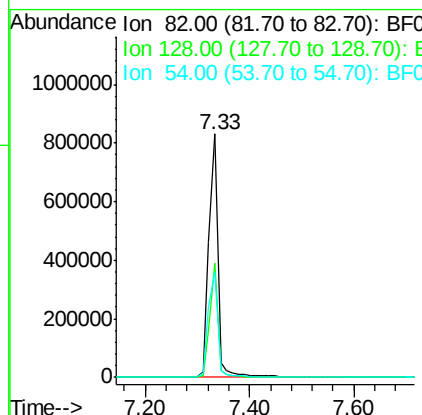
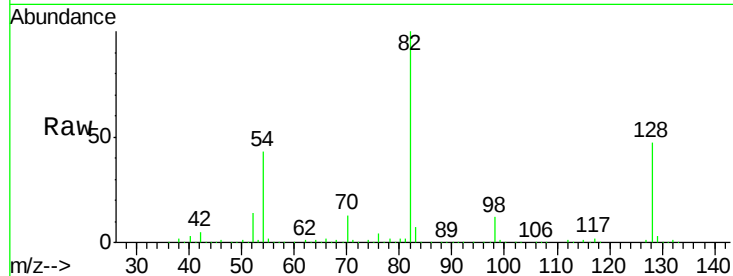
#23
Nitrobenzene-d5
Concen: 112.35 ng
RT: 7.33 min Scan# 459
Delta R.T. 0.00 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion: 82 Resp: 1009163
Ion Ratio Lower Upper
82 100
128 46.9 51.0 76.6#
54 43.5 47.5 71.3#

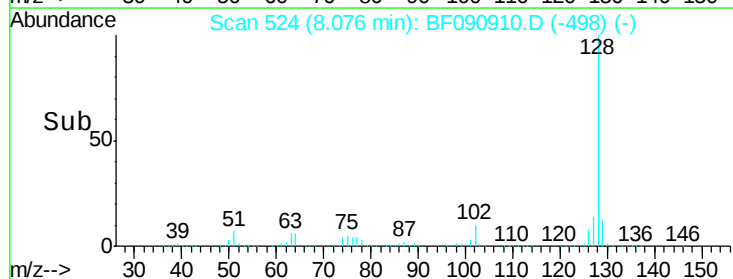
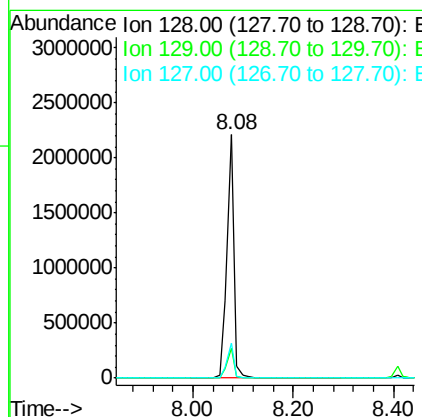
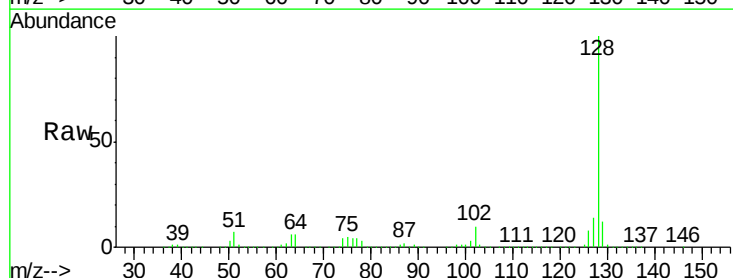
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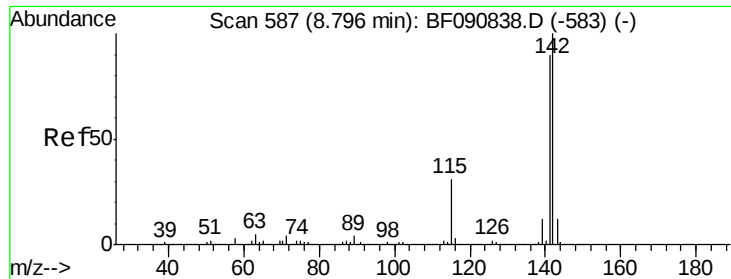
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#31
Naphthalene
Concen: 78.16 ng
RT: 8.08 min Scan# 524
Delta R.T. 0.00 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion: 128 Resp: 2148342
Ion Ratio Lower Upper
128 100
129 12.0 8.4 12.6
127 14.4 9.9 14.9





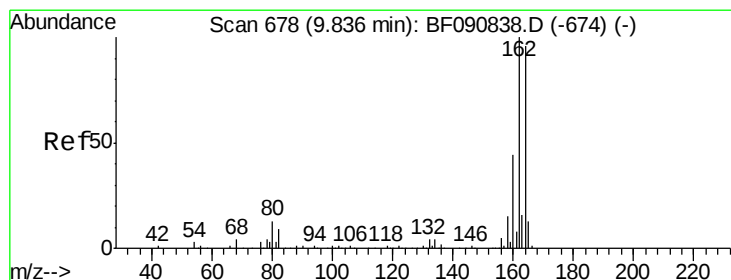
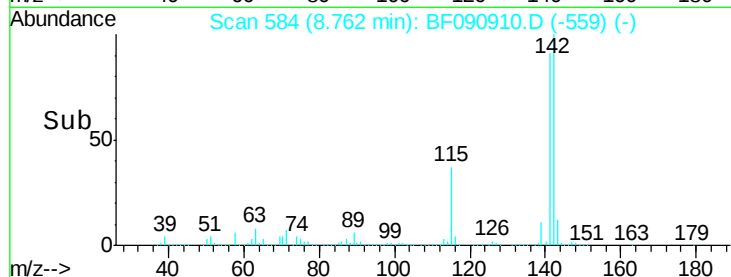
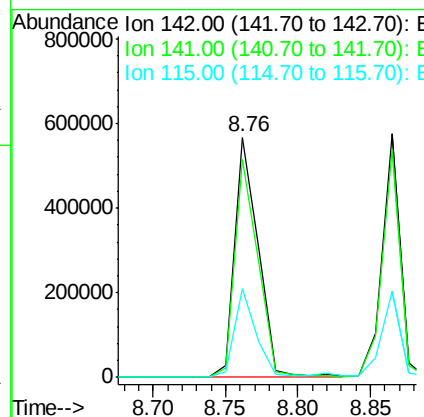
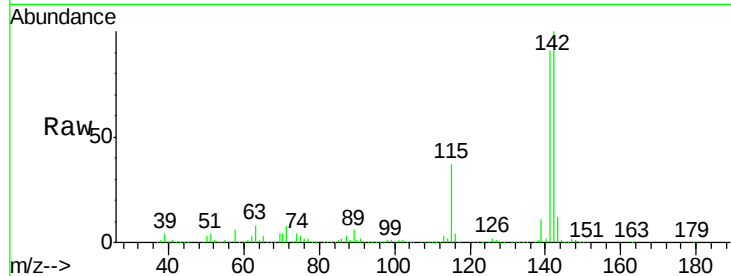
#37
2-Methylnaphthalene
Concen: 36.17 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.8	67.5	101.3
115	37.1	18.2	27.2

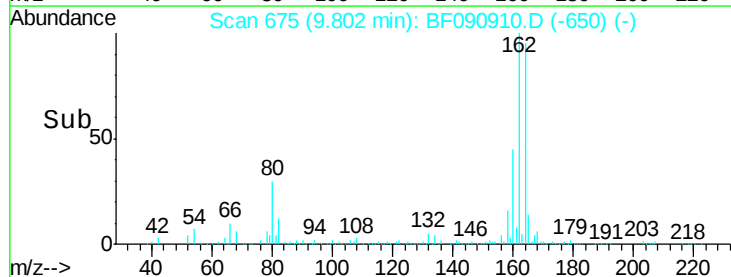
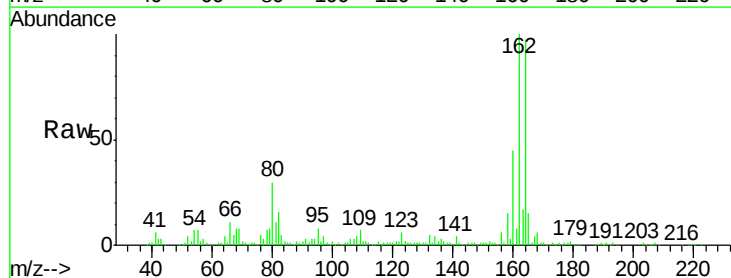
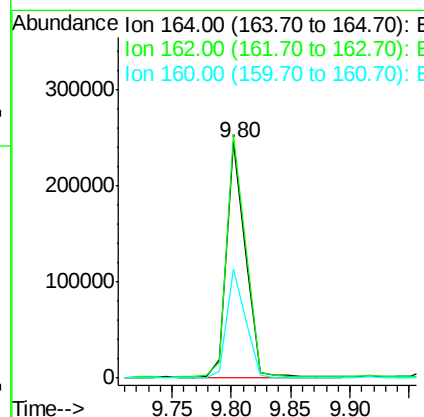
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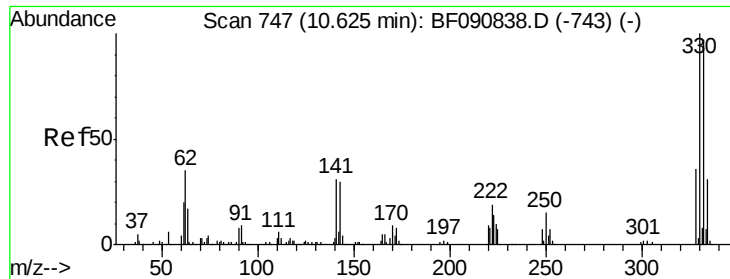
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	75.2	112.8
160	46.4	31.5	47.3





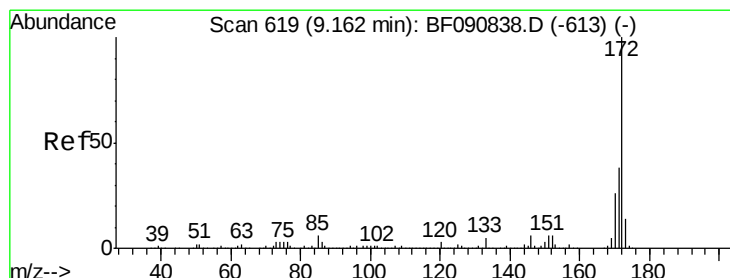
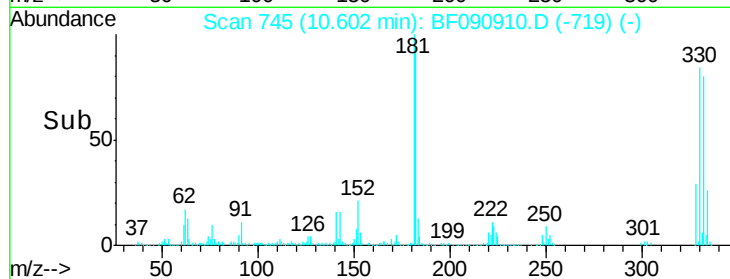
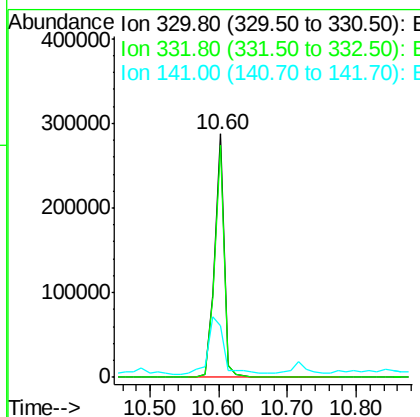
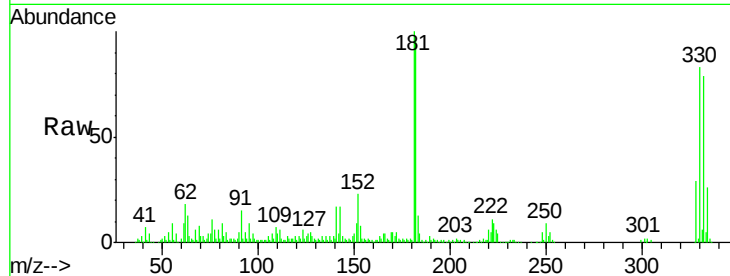
#41
 2,4,6-Tribromophenol
 Concen: 103.40 ng
 RT: 10.60 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Instrument :
 BNA_F
 ClientSampled :
 SB-2-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	283363		
332	95.5	76.6	114.8	
141	36.4	29.7	44.5	

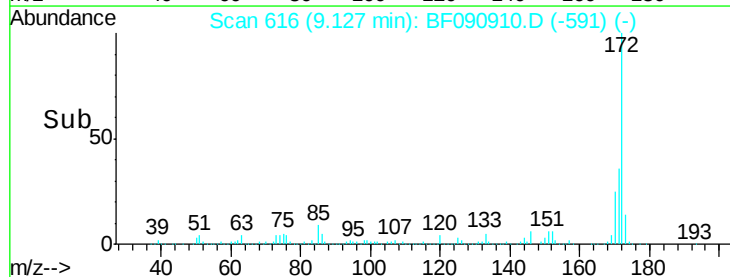
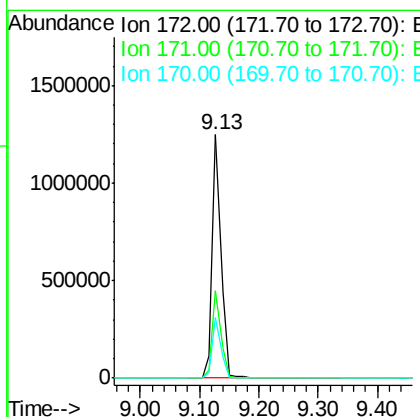
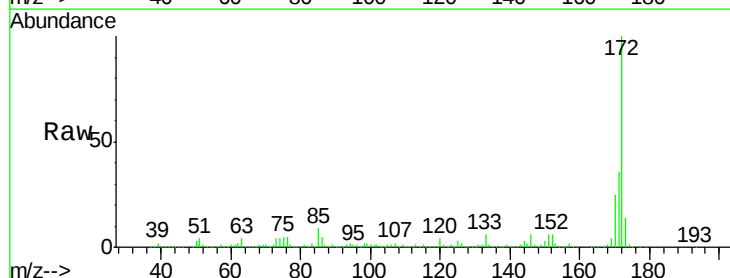
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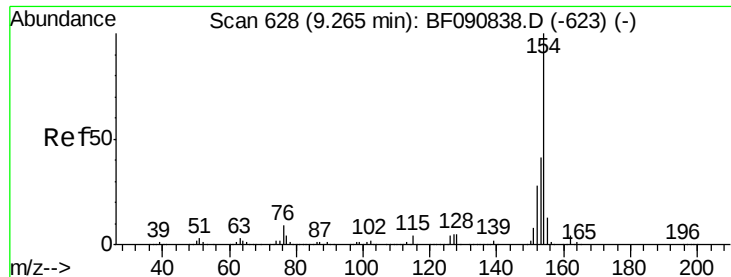
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#44
 2-Fluorobiphenyl
 Concen: 84.01 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1275793		
171	36.2	26.1	39.1	
170	24.8	17.4	26.2	





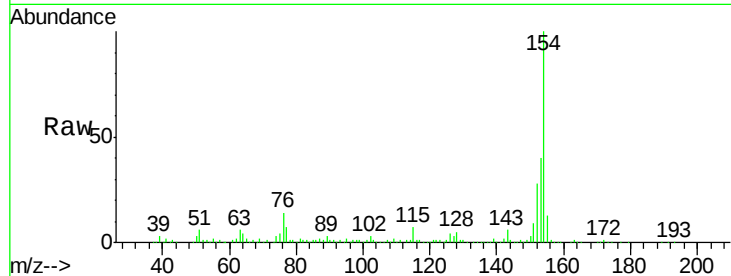
#45
1,1'-Biphenyl
Concen: 12.71 ng
RT: 9.23 min Scan# 625
Delta R.T. 0.00 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

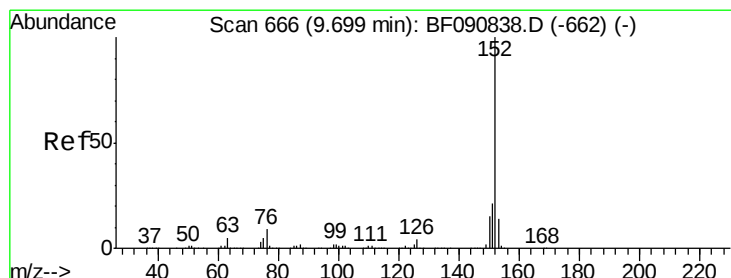
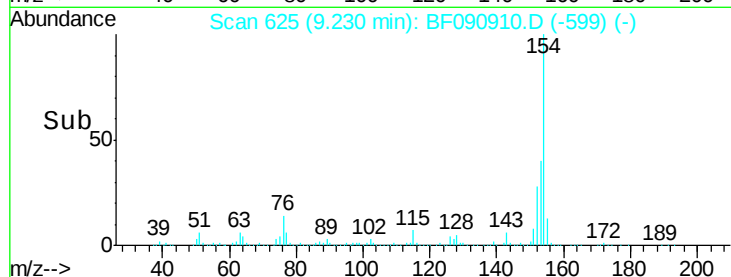
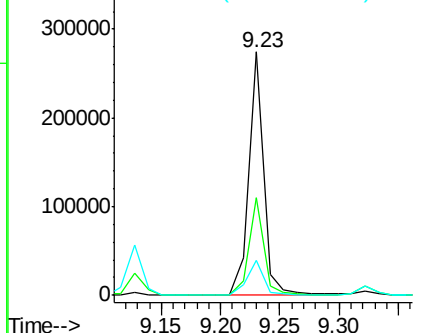
Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.0	17.1	57.1
76	14.3	0.0	31.6

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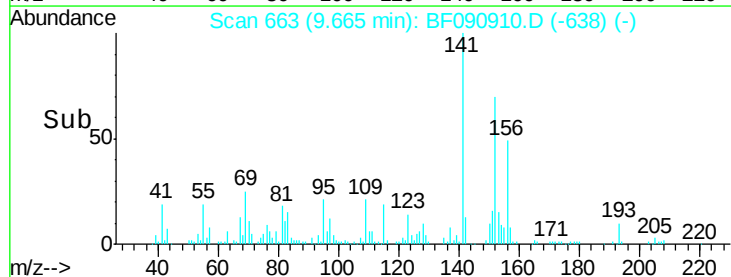
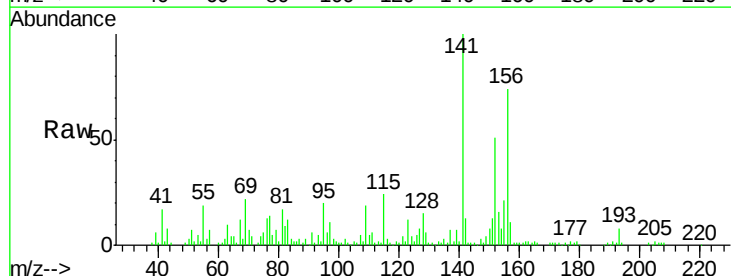
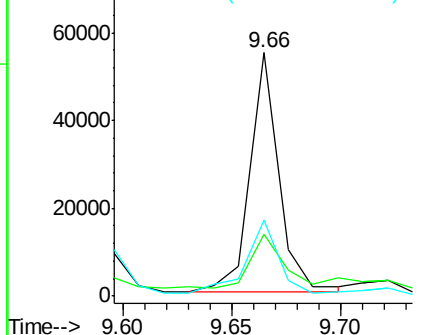
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

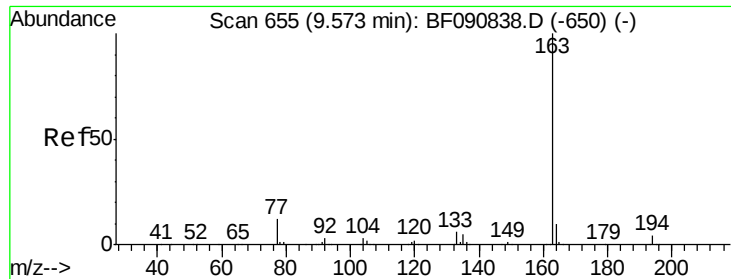


#48
Acenaphthylene
Concen: 2.27 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	25.2	14.6	22.0#
153	31.3	10.3	15.5#

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





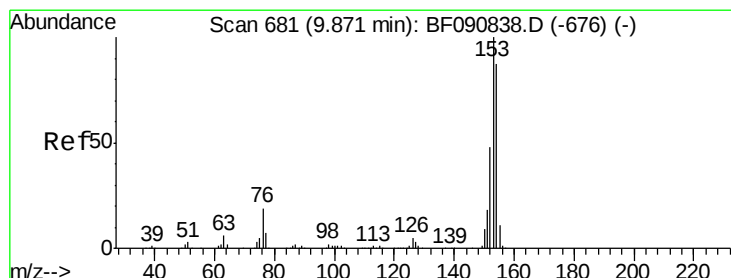
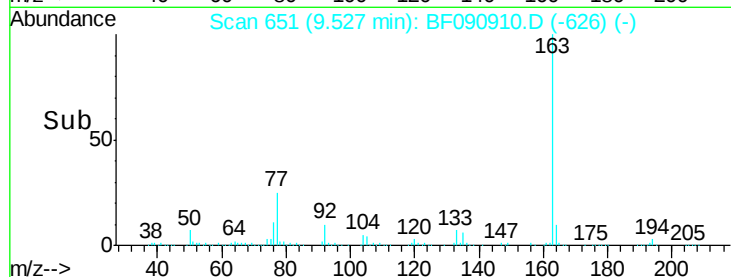
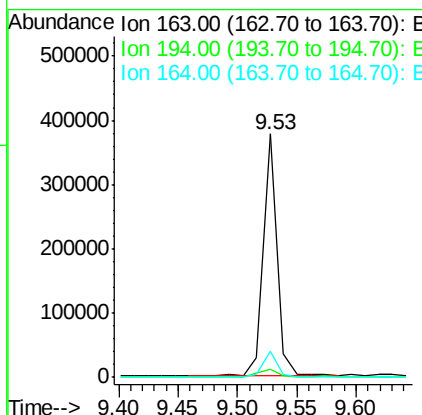
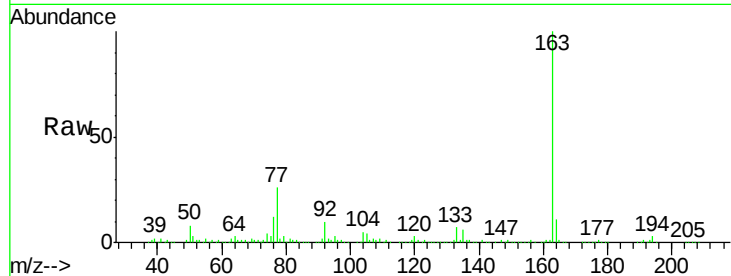
#49
Dimethylphthalate
Concen: 17.27 ng
RT: 9.53 min Scan# 651
Delta R.T. -0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	4.4	6.6#
164	10.5	8.3	12.5

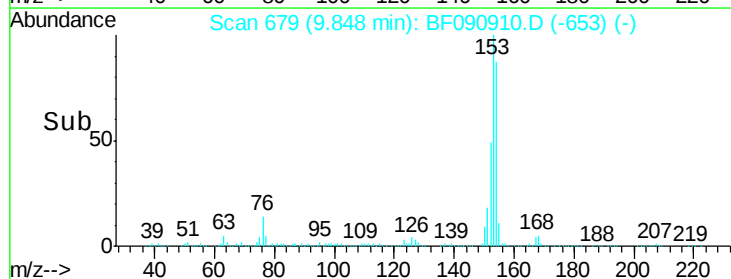
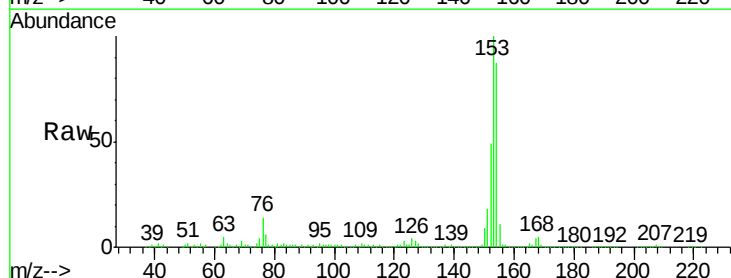
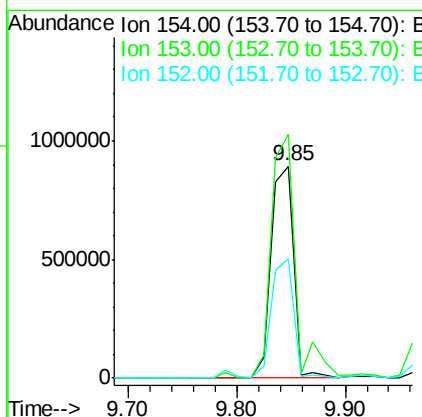
Manual Integrations
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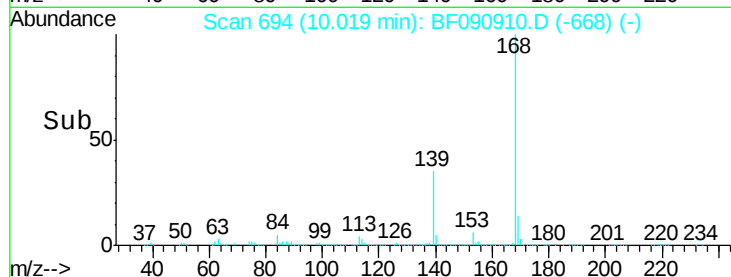
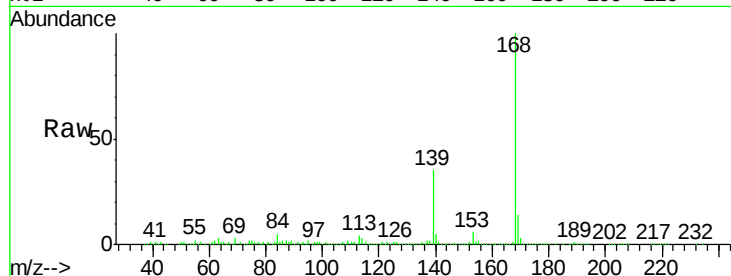
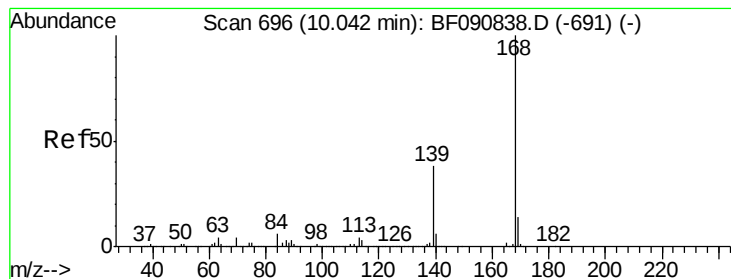
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#51
Acenaphthene
Concen: 83.66 ng
RT: 9.85 min Scan# 679
Delta R.T. 0.00 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.0	82.1	123.1
152	56.6	37.9	56.9





#54

Dibenzofuran

Concen: 79.68 ng

RT: 10.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.1	24.2	36.2
169	13.5	10.6	15.8

Instrument :

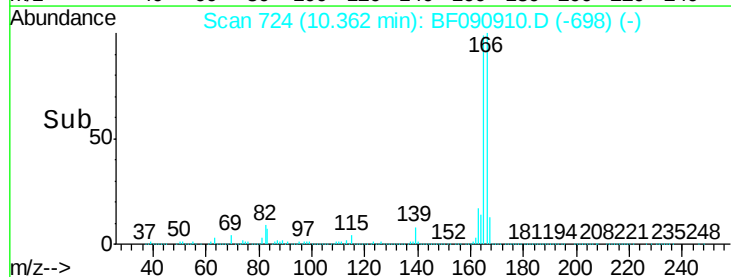
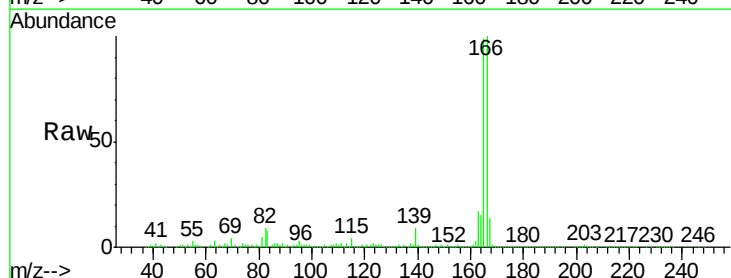
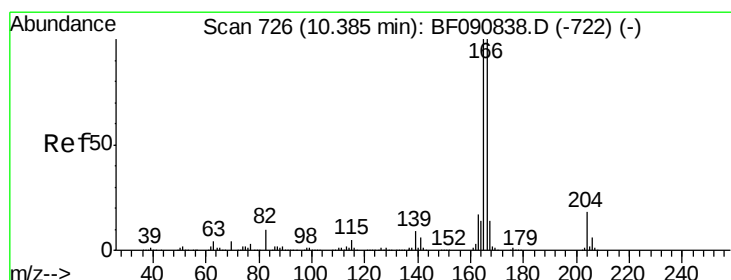
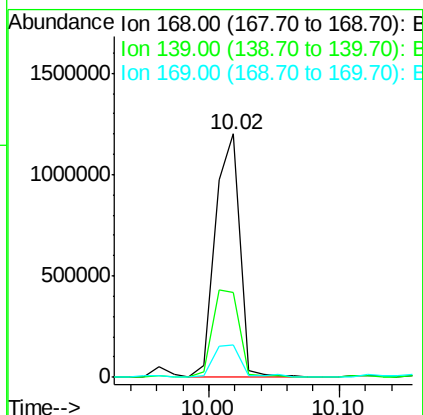
BNA_F

ClientSampleId :

SB-2-COMP

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#57

Fluorene

Concen: 82.87 ng

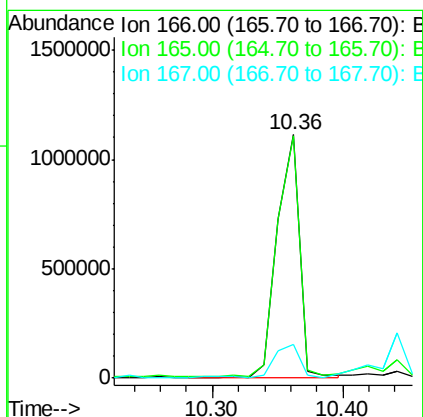
RT: 10.36 min Scan# 724

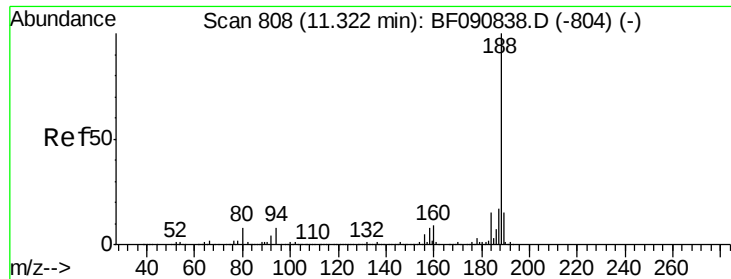
Delta R.T. 0.00 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	72.6	109.0
167	14.0	10.6	16.0





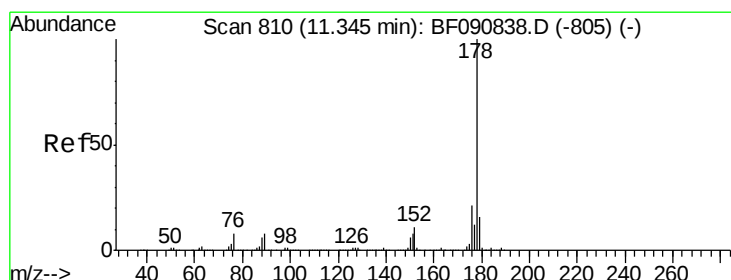
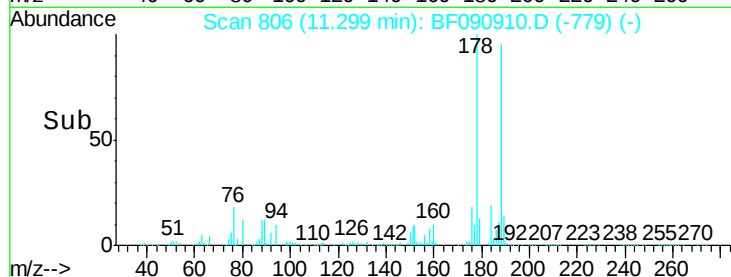
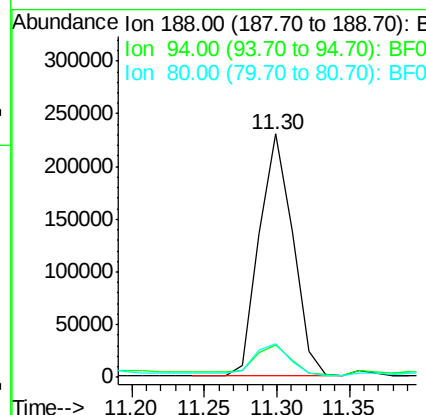
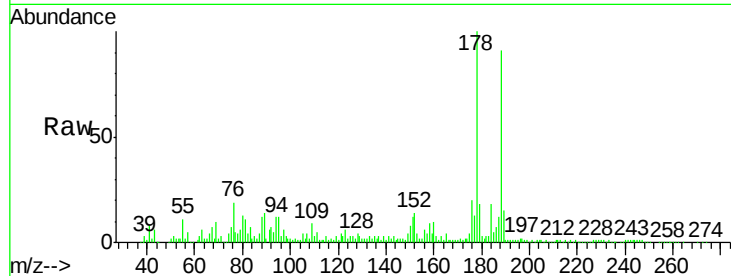
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 806
Delta R.T. 0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	369771		
94	13.2		11.1	16.7
80	14.1		11.0	16.4

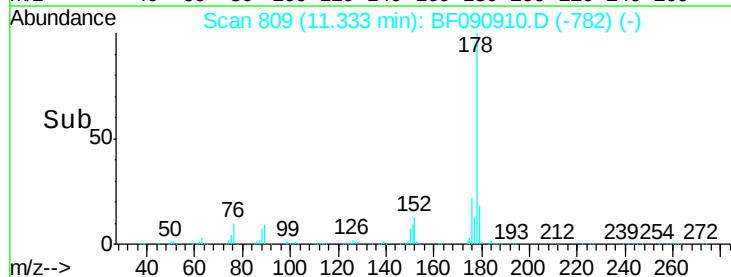
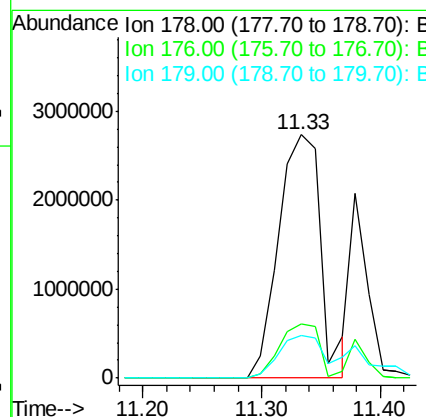
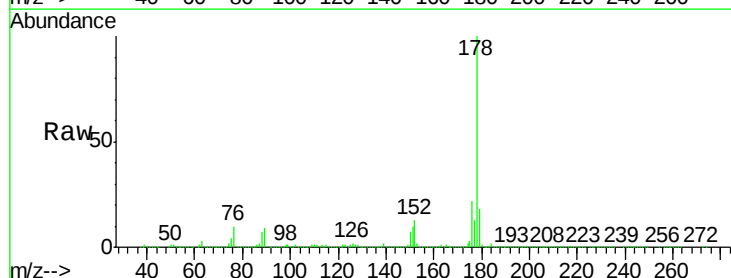
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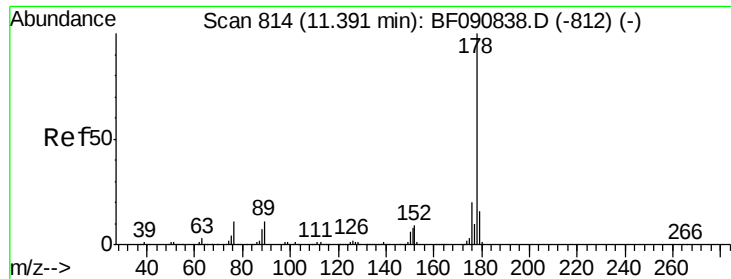
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#70
Phenanthrene
Concen: 357.29 ng
RT: 11.33 min Scan# 809
Delta R.T. 0.01 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	6727945		
176	22.5		13.8	20.8#
179	17.8		12.2	18.2





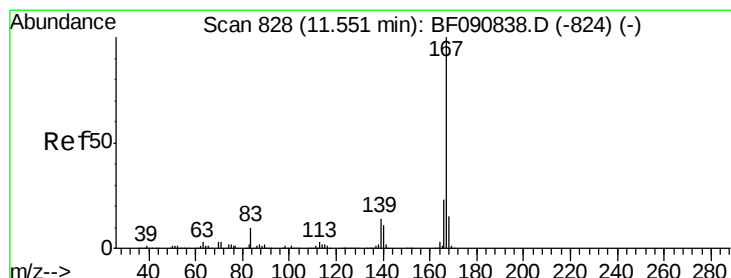
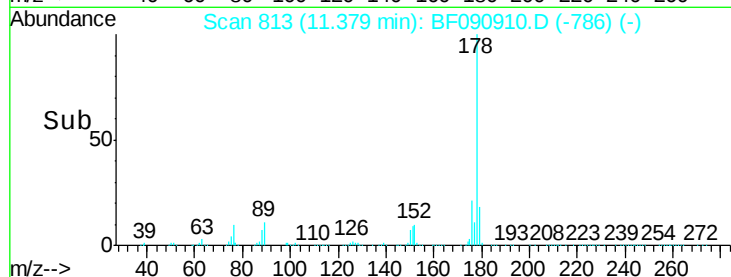
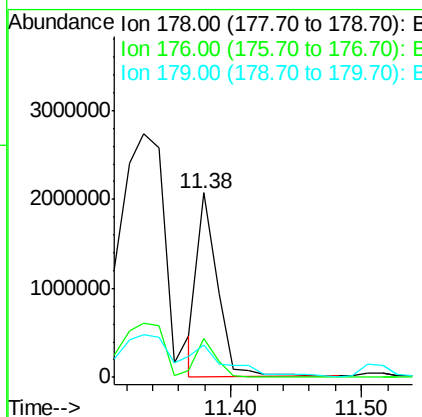
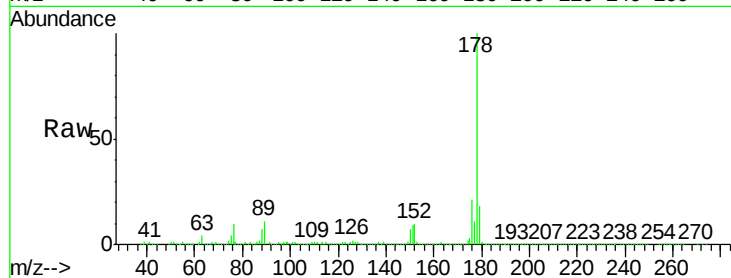
#71
 Anthracene
 Concen: 111.14 ng
 RT: 11.38 min Scan# 813
 Delta R.T. 0.01 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion:178 Resp: 2203633
 Ion Ratio Lower Upper
 178 100
 176 20.9 14.1 21.1
 179 17.9 12.2 18.2

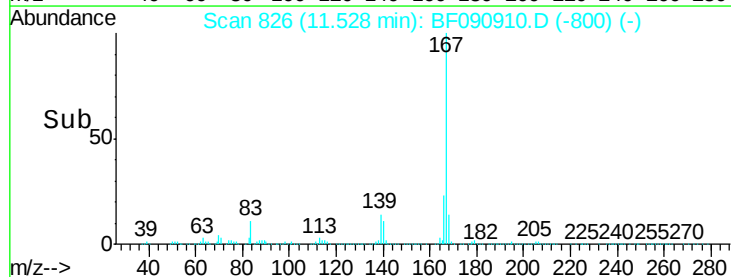
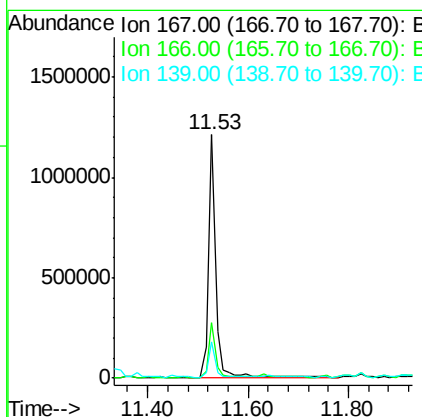
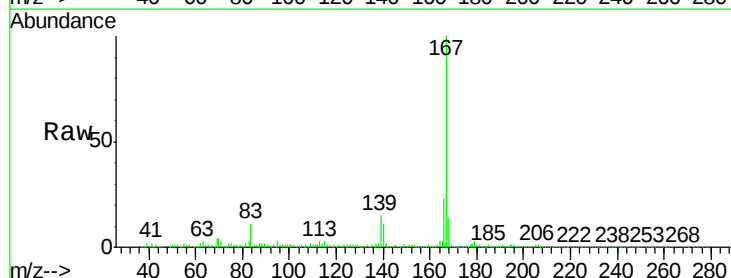
Manual Integrations
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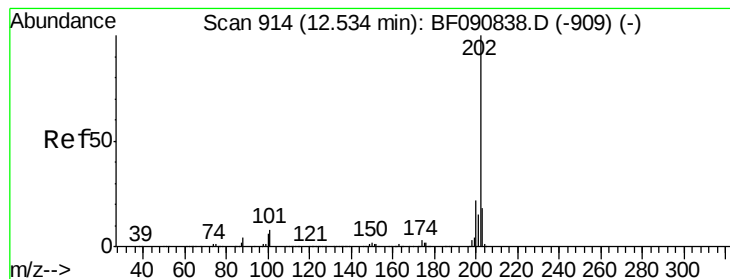
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#72
 Carbazole
 Concen: 68.79 ng
 RT: 11.53 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Tgt Ion:167 Resp: 1204543
 Ion Ratio Lower Upper
 167 100
 166 22.9 15.7 23.5
 139 14.7 9.5 14.3#





#74

Fluoranthene

Concen: 281.61 ng

RT: 12.53 min Scan# 914

Delta R.T. 0.03 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Instrument :

BNA_F

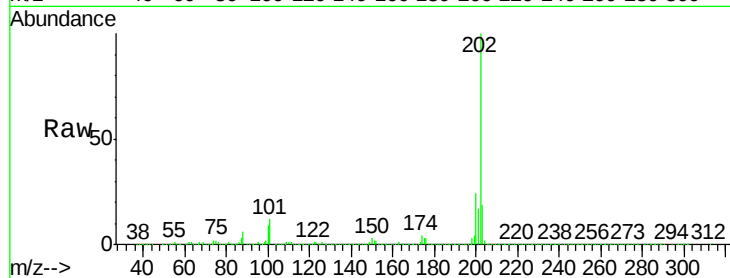
ClientSampleId :

SB-2-COMP

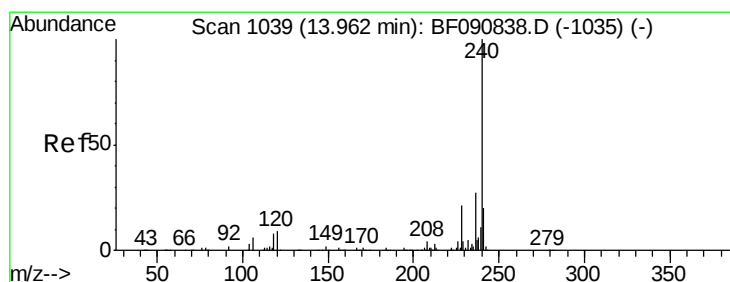
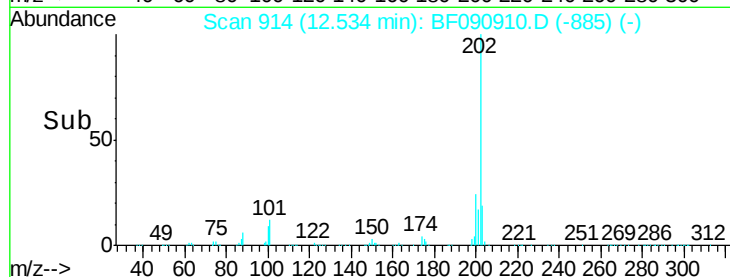
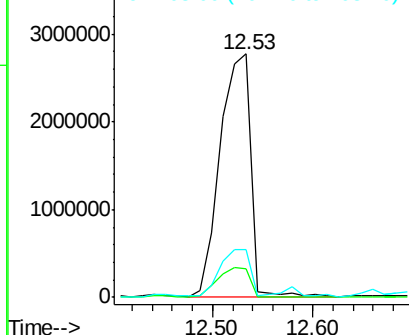
Tgt	Ion	202	Resp:	5807240
Ion	Ratio	Lower	Upper	
202	100			
101	12.0	0.0	38.3	
203	19.4	0.0	37.3	

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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: 13.95 min Scan# 1038

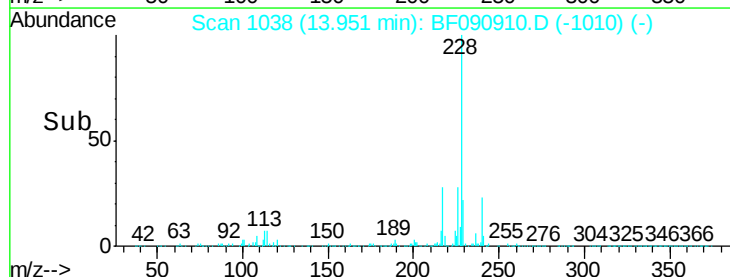
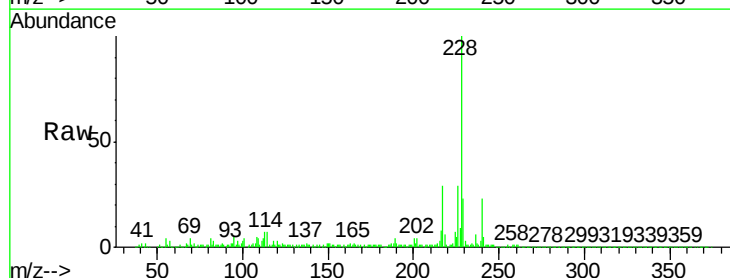
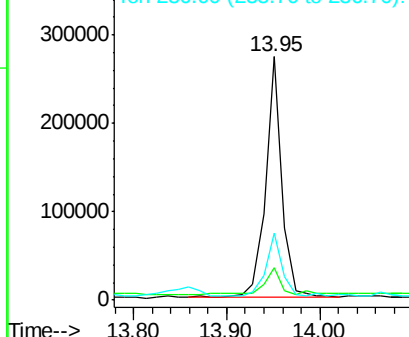
Delta R.T. 0.02 min

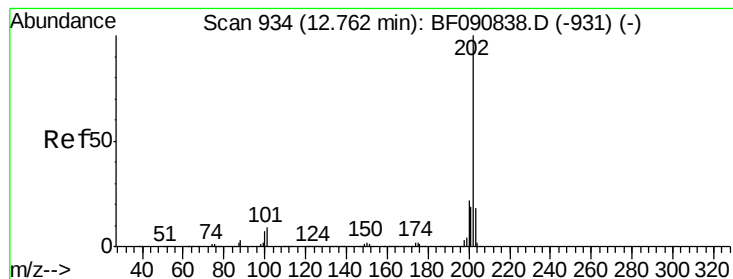
Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Tgt	Ion	240	Resp:	330890
Ion	Ratio	Lower	Upper	
240	100			
120	13.3	16.2	24.2#	
236	27.7	18.4	27.6#	

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: 239.13 ng

RT: 12.76 min Scan# 934

Delta R.T. 0.03 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Instrument :

BNA_F

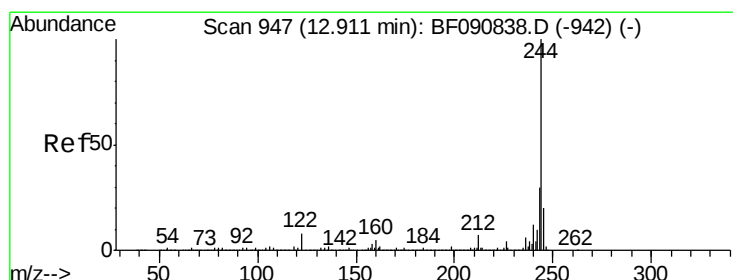
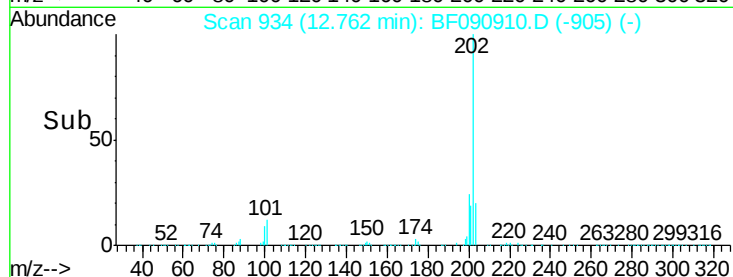
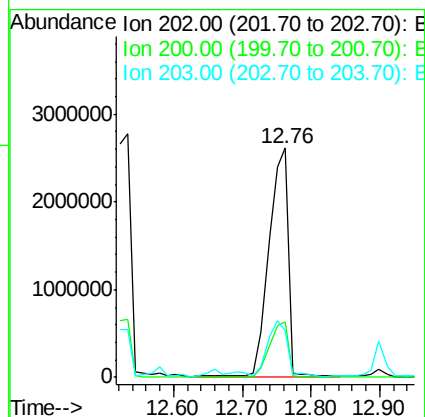
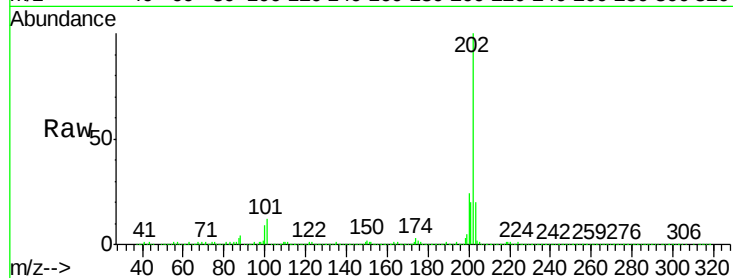
ClientSampleId :

SB-2-COMP

Tgt Ion:	202	Resp:	5007381
Ion	Ratio	Lower	Upper
202	100		
200	24.4	15.0	22.4#
203	20.5	14.1	21.1

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#78

Terphenyl-d14

Concen: 81.47 ng

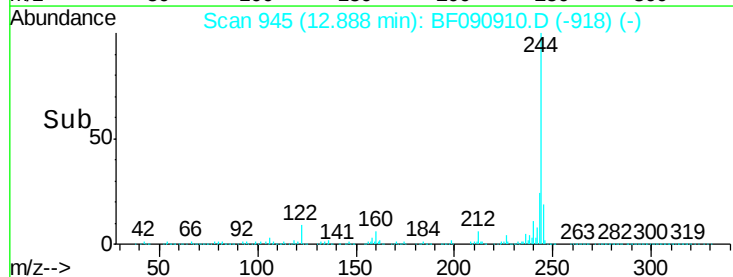
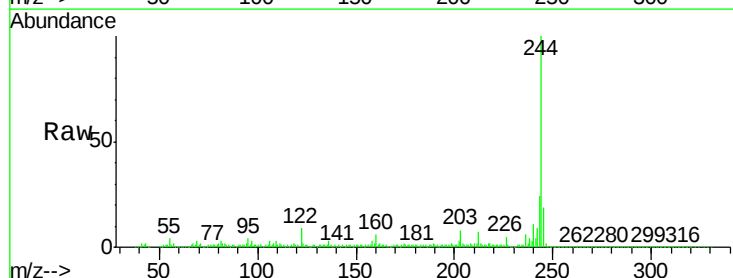
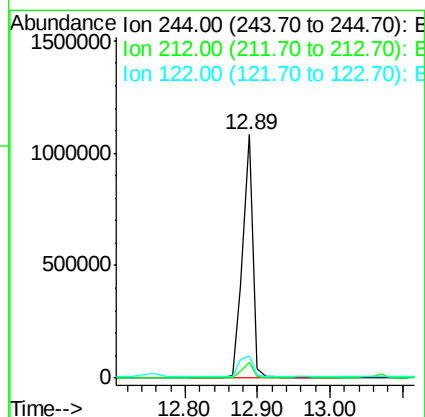
RT: 12.89 min Scan# 945

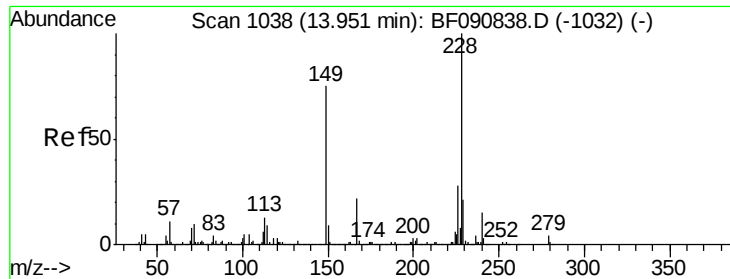
Delta R.T. 0.01 min

Lab File: BF090910.D

Acq: 28 Oct 2016 16:04

Tgt Ion:	244	Resp:	1070018
Ion	Ratio	Lower	Upper
244	100		
212	6.7	4.3	6.5#
122	9.2	17.4	26.2#





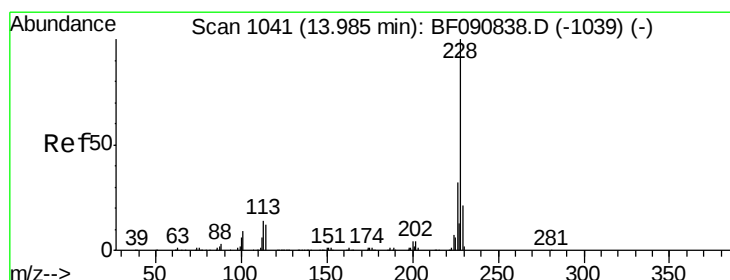
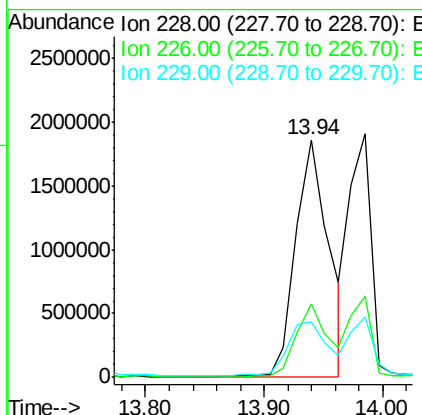
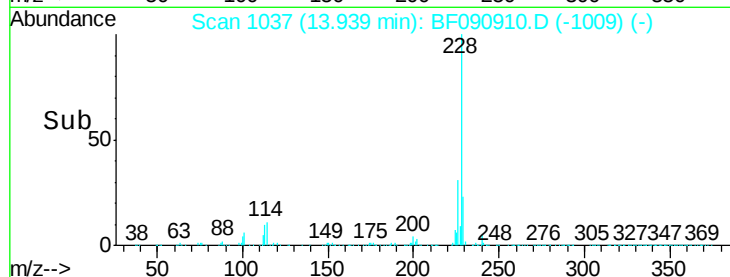
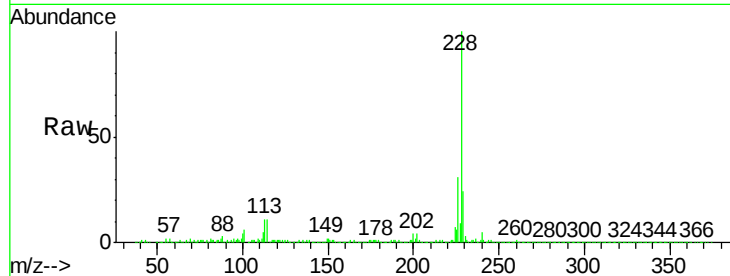
#80
Benzo(a)anthracene
Concen: 204.92 ng
RT: 13.94 min Scan# 1037
Delta R.T. 0.02 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion:228 Resp: 3598473
Ion Ratio Lower Upper
228 100
226 30.9 20.0 30.0#
229 23.6 15.4 23.2#

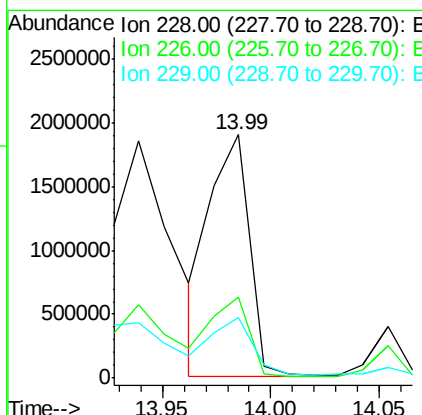
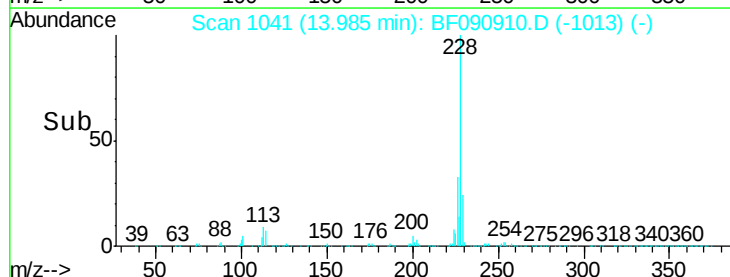
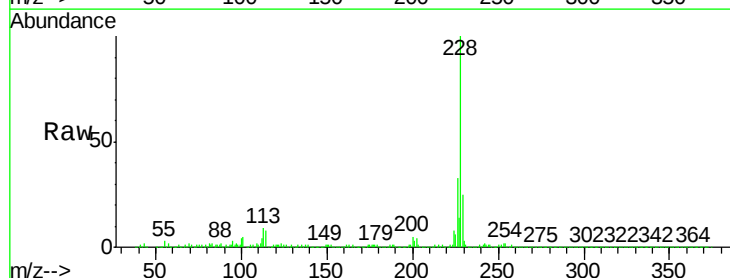
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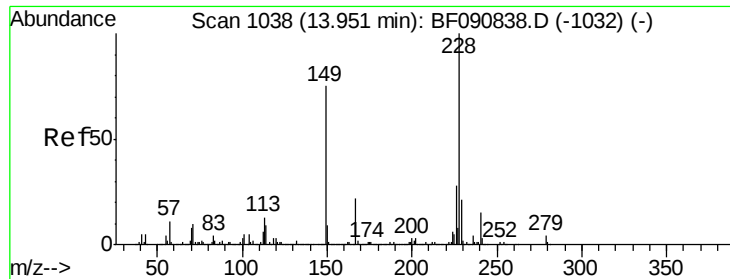
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#82
Chrysene
Concen: 136.34 ng
RT: 13.99 min Scan# 1041
Delta R.T. 0.02 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion:228 Resp: 2421668
Ion Ratio Lower Upper
228 100
226 33.2 21.0 31.4#
229 24.8 15.6 23.4#





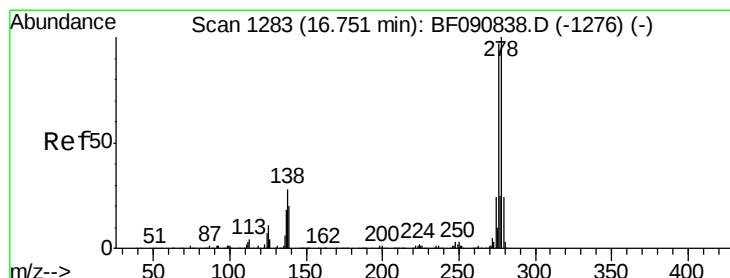
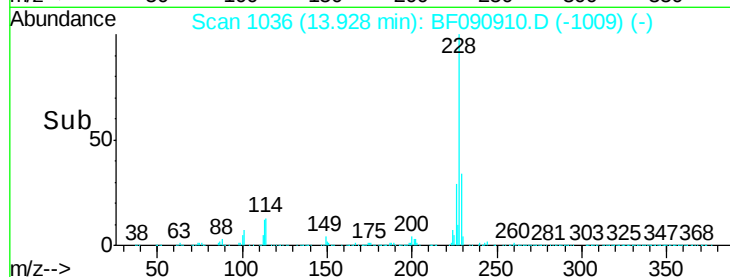
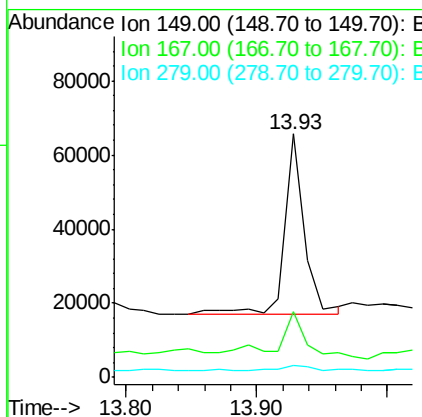
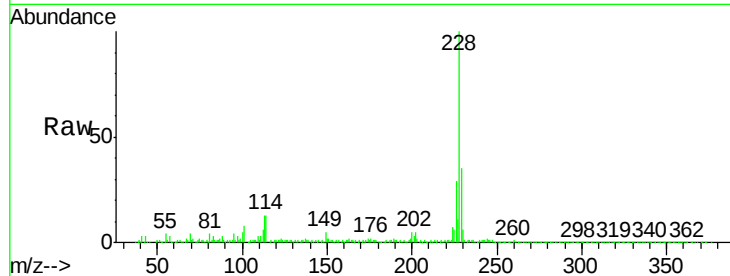
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.22 ng
 RT: 13.93 min Scan# 1036
 Delta R.T. 0.01 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMP

Tgt Ion:	149	Resp:	52231
Ion Ratio	Lower	Upper	
149	100		
167	26.9	24.2	36.2
279	5.0	3.8	5.6

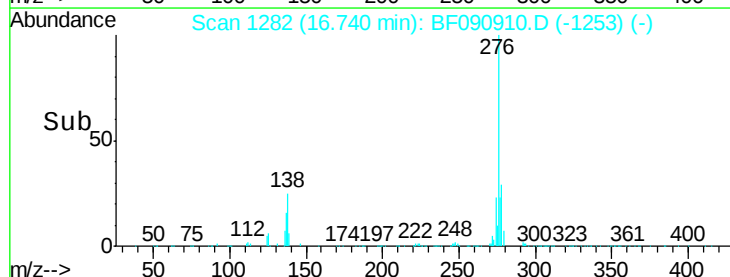
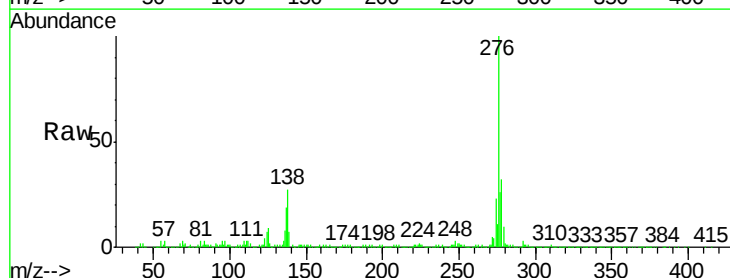
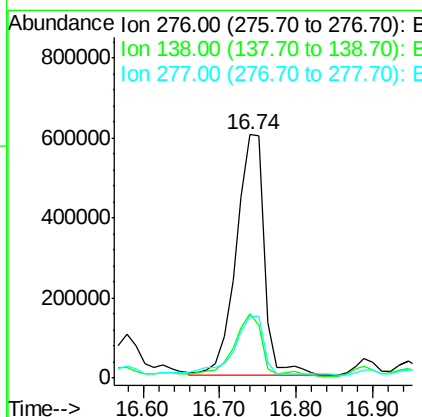
Manual Integrations
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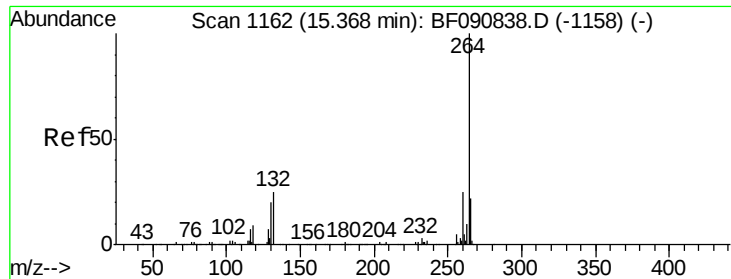
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 98.26 ng
 RT: 16.74 min Scan# 1282
 Delta R.T. 0.03 min
 Lab File: BF090910.D
 Acq: 28 Oct 2016 16:04

Tgt Ion:	276	Resp:	1546606
Ion Ratio	Lower	Upper	
276	100		
138	26.6	25.7	38.5
277	25.8	15.6	23.4#





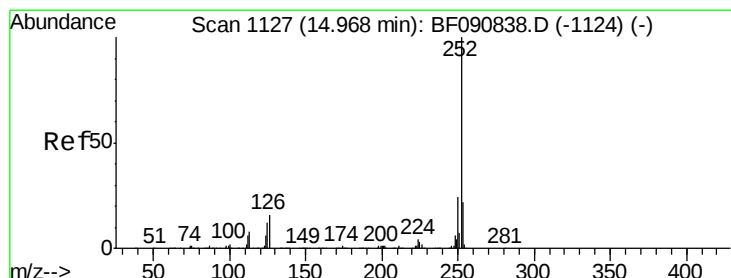
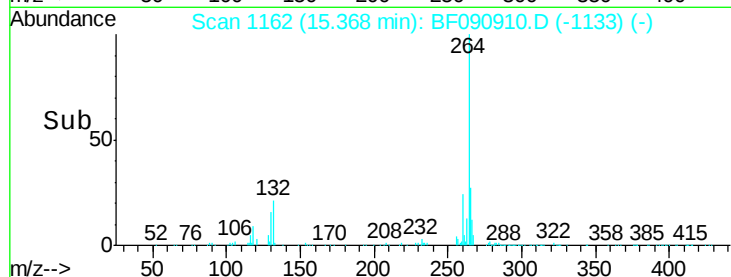
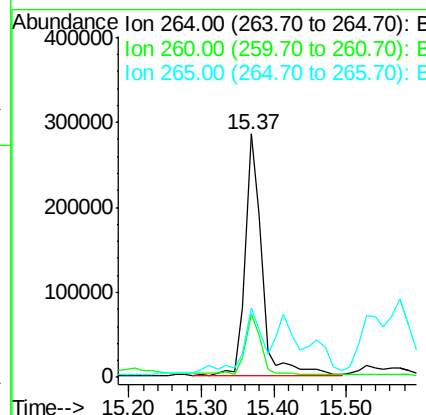
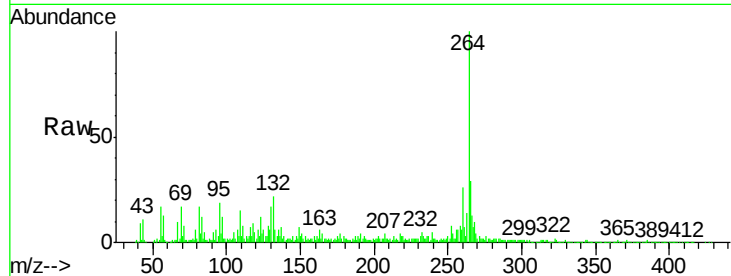
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1162
Delta R.T. 0.03 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.8	16.7	25.1#
265	28.5	17.2	25.8#

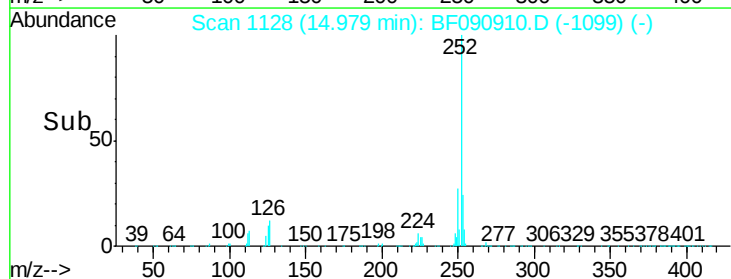
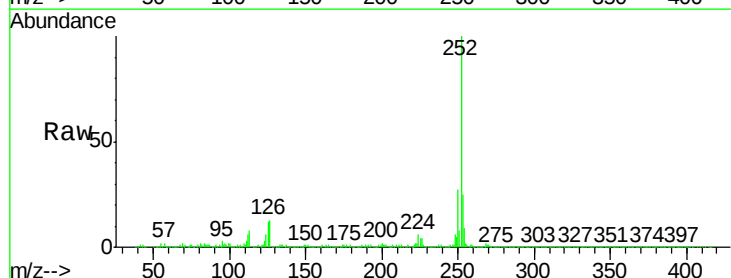
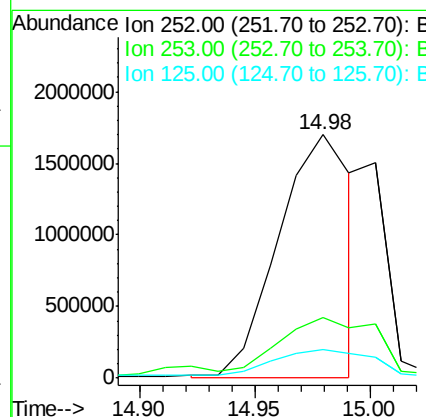
Manual Integrations
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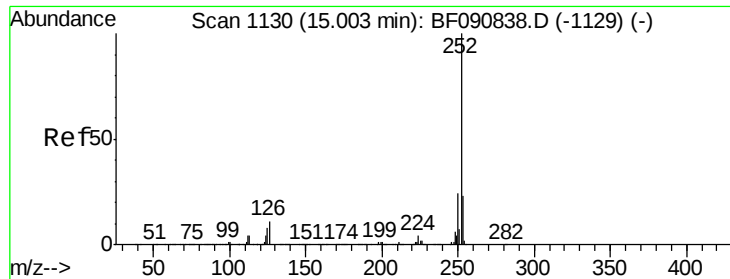
sohil
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#87
Benzo(b)fluoranthene
Concen: 126.56 ng m
RT: 14.98 min Scan# 1128
Delta R.T. 0.03 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.5	26.3
125	11.5	17.1	25.7#





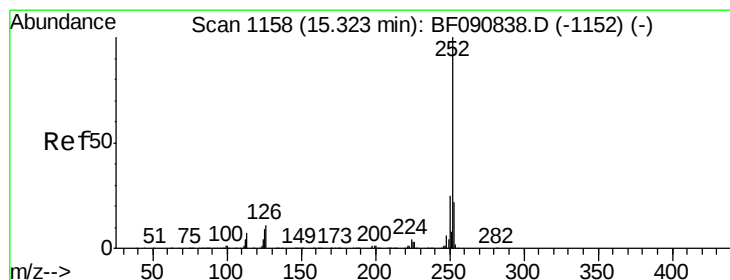
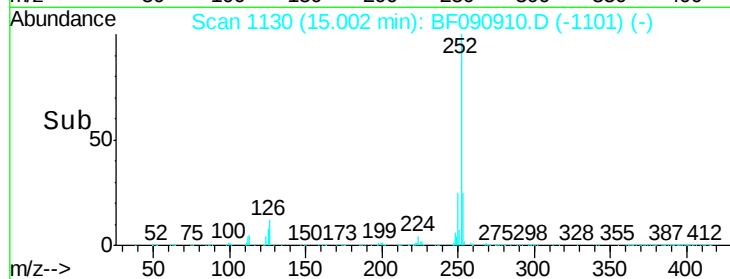
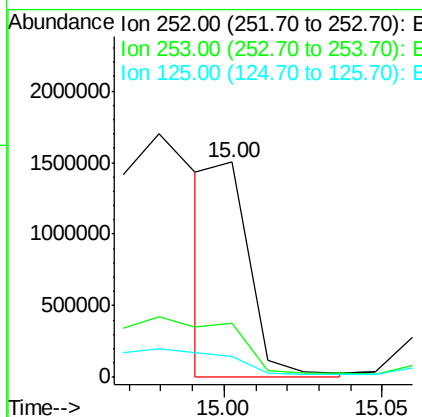
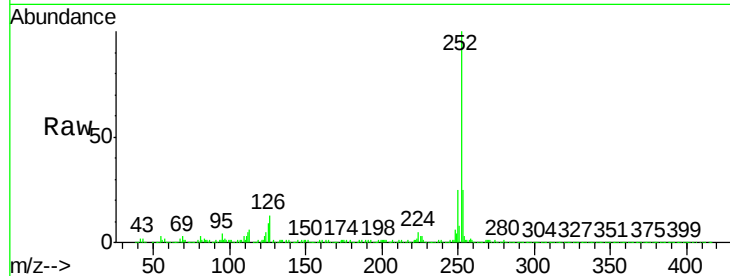
#88
Benzo(k)fluoranthene
Concen: 48.87 ng m
RT: 15.00 min Scan# 1130
Delta R.T. 0.03 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion: 252 Resp: 1165349
Ion Ratio Lower Upper
252 100
253 25.4 17.0 25.4
125 9.4 16.0 24.0#

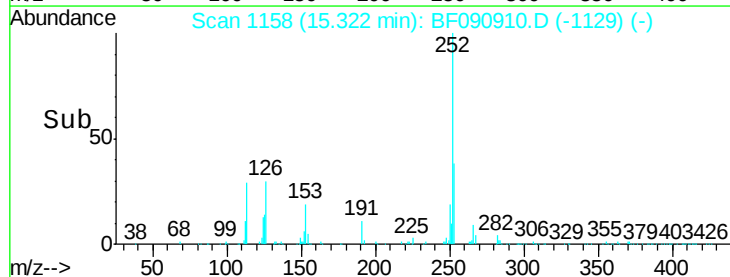
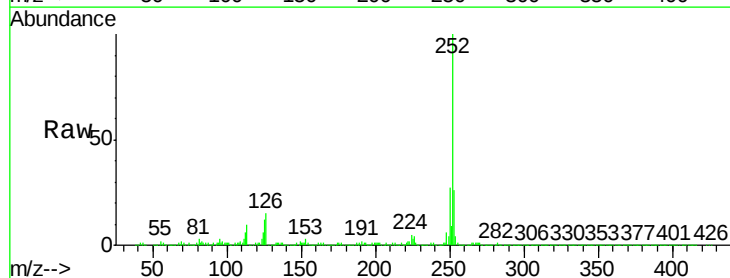
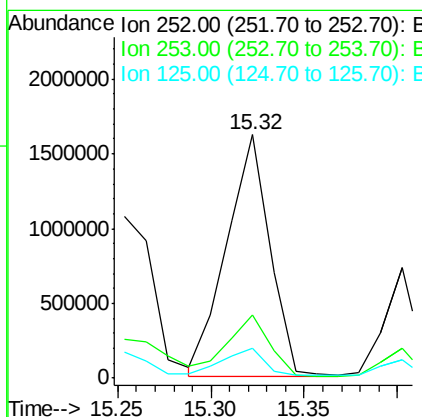
Manual Integrations
APPROVED

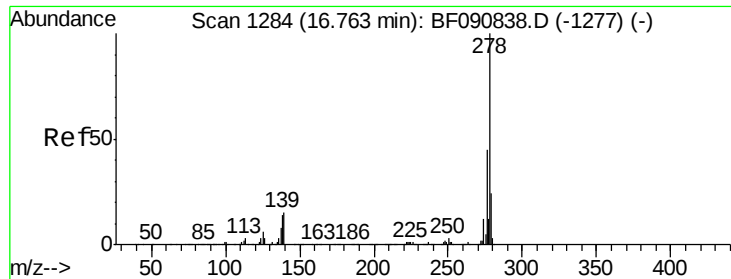
sohil
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#89
Benzo(a)pyrene
Concen: 101.20 ng
RT: 15.32 min Scan# 1158
Delta R.T. 0.03 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion: 252 Resp: 2623899
Ion Ratio Lower Upper
252 100
253 25.9 17.2 25.8#
125 12.1 18.0 27.0#





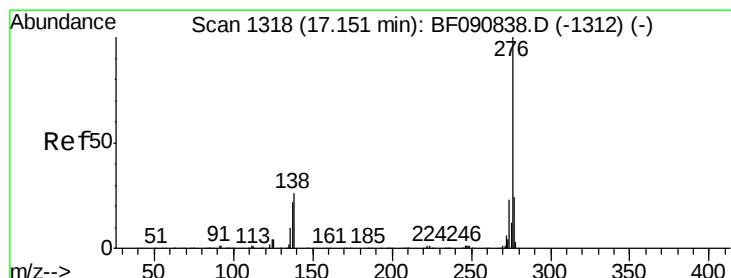
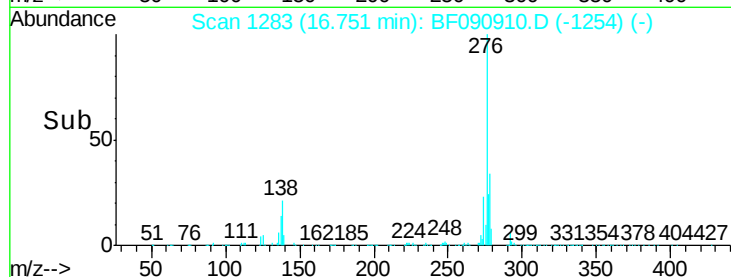
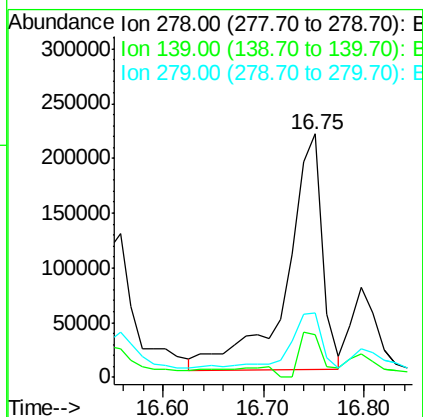
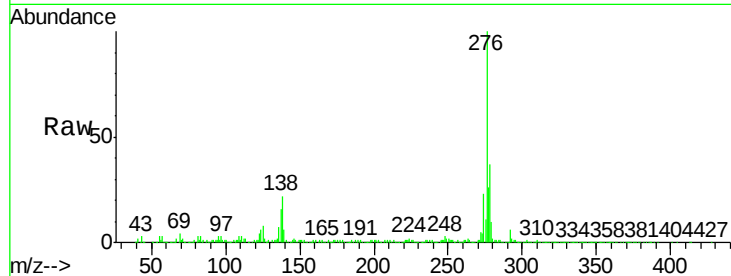
#90
Dibenzo(a,h)anthracene
Concen: 24.22 ng
RT: 16.75 min Scan# 1283
Delta R.T. 0.03 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Instrument :
BNA_F
ClientSampleId :
SB-2-COMP

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	26.3	39.5#
279	26.5	18.2	27.4

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 59.98 ng
RT: 17.15 min Scan# 1318
Delta R.T. 0.05 min
Lab File: BF090910.D
Acq: 28 Oct 2016 16:04

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	17.8	26.6
138	27.1	34.6	51.8#

