

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102816\
 Data File : BF090909.D
 Acq On : 28 Oct 2016 14:48
 Operator : UM/SJ
 Sample : H5422-05DL 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

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Quant Time: Nov 01 15:39:24 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	194474	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	826263	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	424206	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	628203	20.00	ng	0.00
75) Chrysene-d12	13.93	240	469555	20.00	ng	0.00
86) Perylene-d12	15.33	264	446083	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	119120	10.71	ng	-0.01
7) Phenol-d6	6.40	99	167030	11.13	ng	-0.02
23) Nitrobenzene-d5	7.32	82	97049	7.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	25356	5.82	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	167732	6.94	ng	-0.01
78) Terphenyl-d14	12.88	244	105196	5.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.06	128	249544	6.46	ng	99
37) 2-Methylnaphthalene	8.76	142	77428	3.10	ng	# 90
51) Acenaphthene	9.84	154	169645	7.00	ng	87
54) Dibenzofuran	10.01	168	208971	6.68	ng	# 88
57) Fluorene	10.35	166	169232	6.61	ng	92
70) Phenanthrene	11.31	178	1420302	44.40	ng	94
71) Anthracene	11.36	178	404971	12.02	ng	96
72) Carbazole	11.52	167	155381	5.22	ng	# 94
74) Fluoranthene	12.50	202	1128865	32.22	ng	94
77) Pyrene	12.73	202	929194m	31.27	ng	
80) Benzo(a)anthracene	13.92	228	369554m	14.83	ng	
82) Chrysene	13.95	228	336763m	13.36	ng	
85) Indeno(1,2,3-cd)pyrene	16.68	276	137761	6.17	ng	# 91
87) Benzo(b)fluoranthene	14.93	252	329109m	10.97	ng	
88) Benzo(k)fluoranthene	14.95	252	154117m	6.50	ng	
89) Benzo(a)pyrene	15.28	252	268206	10.41	ng	# 87
91) Benzo(g,h,i)perylene	17.08	276	111121	5.41	ng	# 84

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

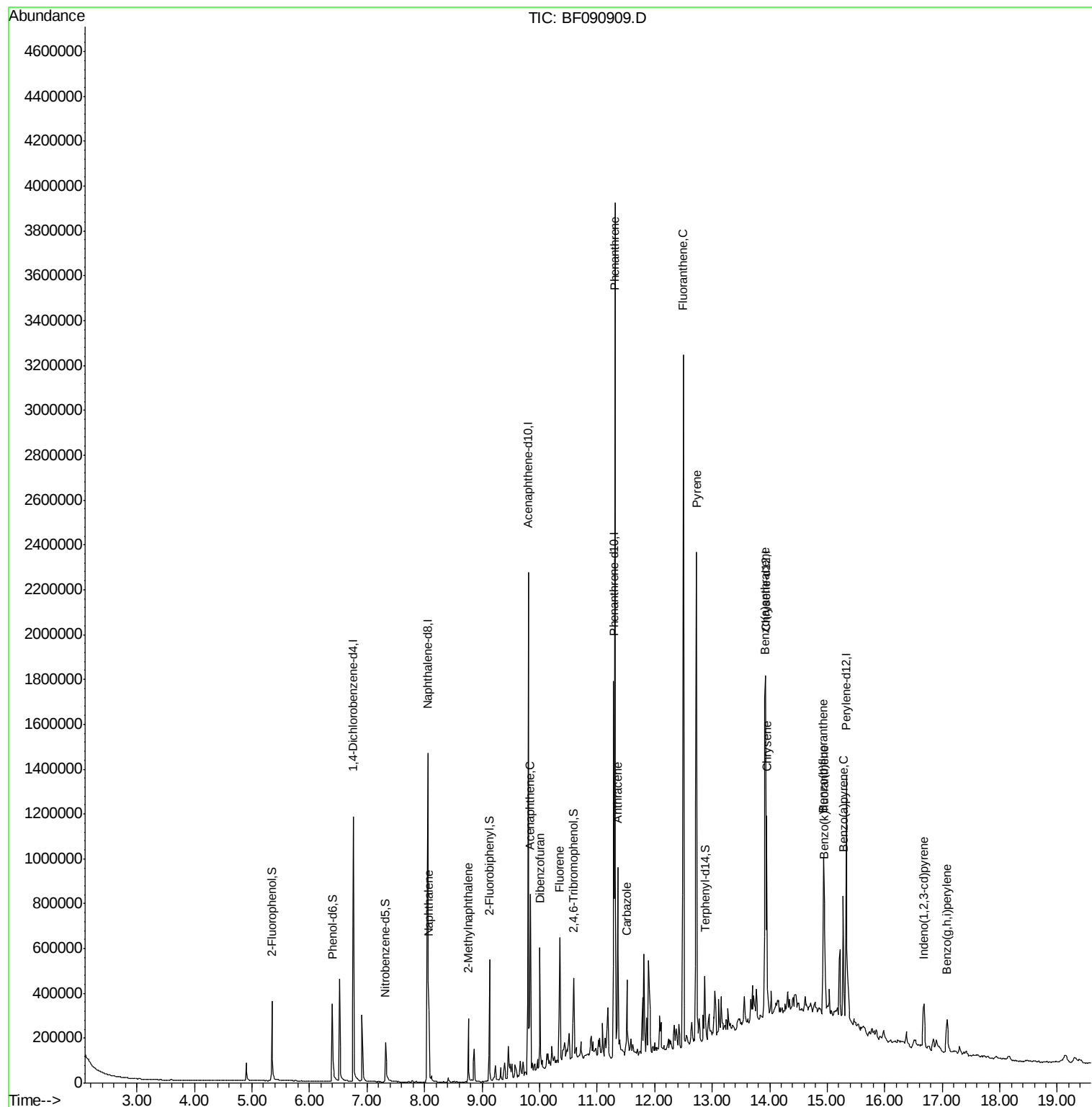
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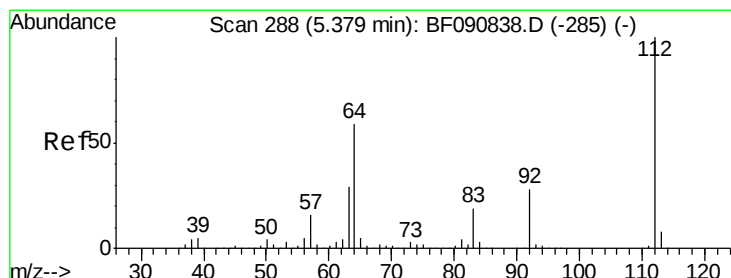
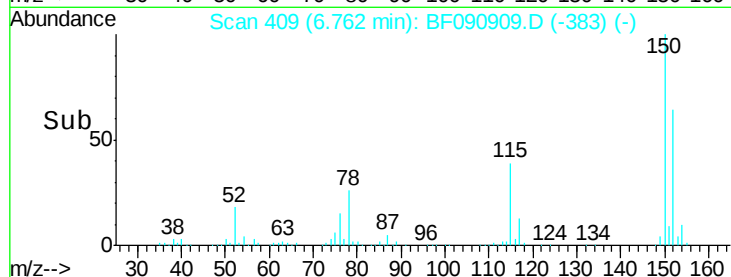
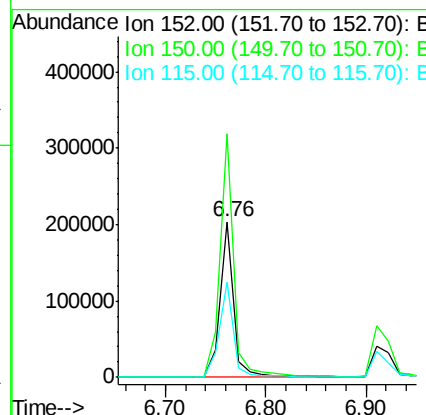
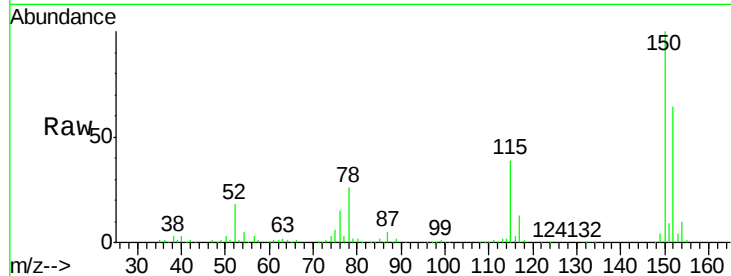
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. 0.00 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.7	187.1
115	60.8	39.0	58.4#

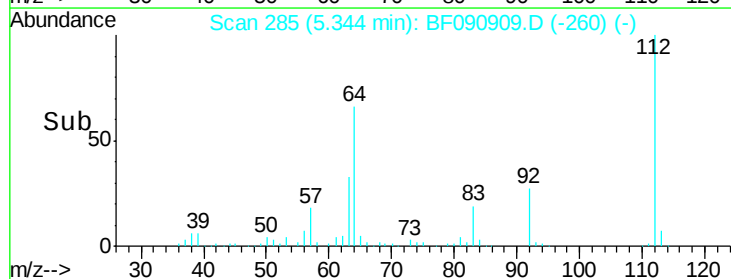
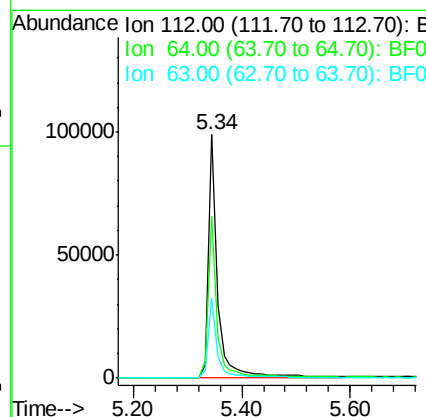
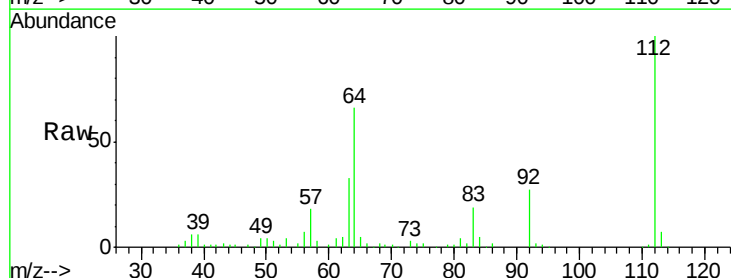
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#5
2-Fluorophenol
Concen: 10.71 ng
RT: 5.34 min Scan# 285
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.3	39.7	59.5#
63	32.9	17.4	26.0#





#7

Phenol-d6

Concen: 11.13 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

SB-2-COMPDL

Tgt Ion: 99 Resp: 167030

Ion Ratio Lower Upper

99 100

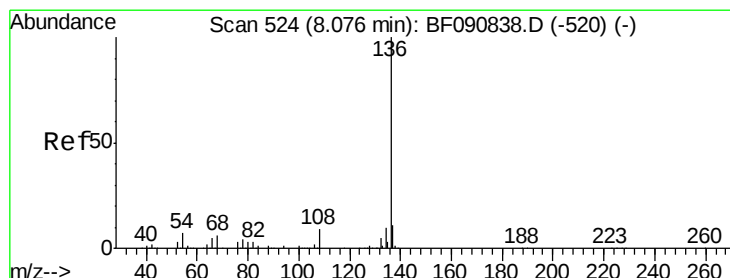
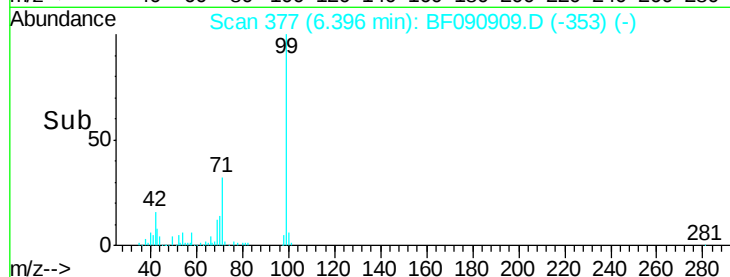
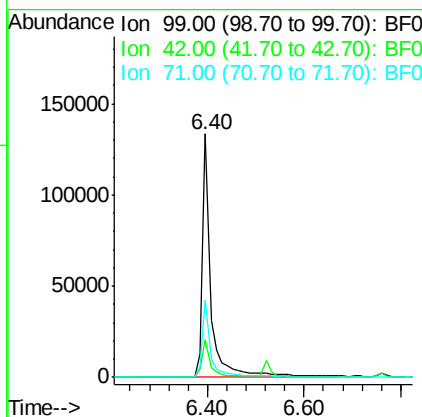
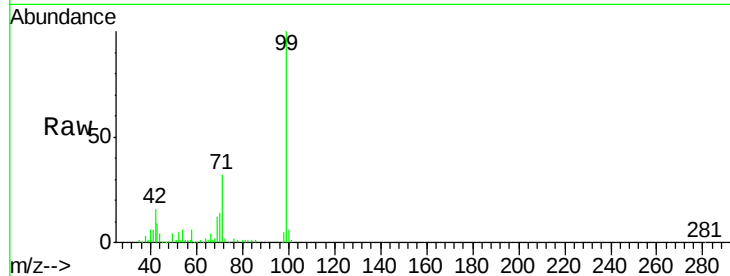
42 15.7 13.7 20.5

71 31.6 14.2 21.2#

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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: BF090909.D

Acq: 28 Oct 2016 14:48

Tgt Ion: 136 Resp: 826263

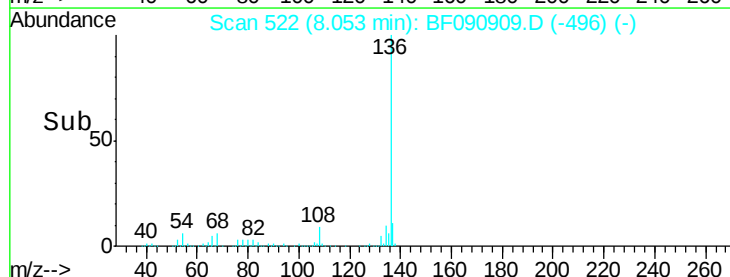
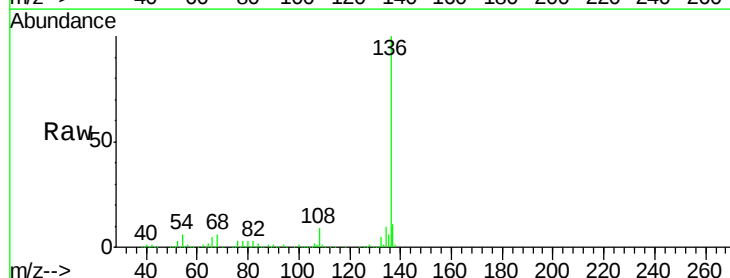
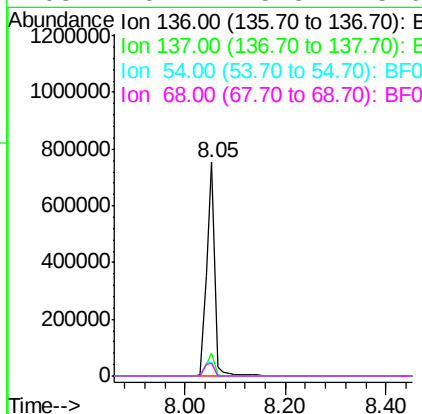
Ion Ratio Lower Upper

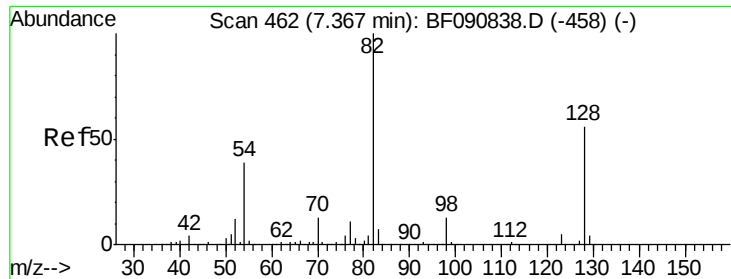
136 100

137 10.6 9.0 13.6

54 6.5 8.2 12.2#

68 6.1 5.8 8.6





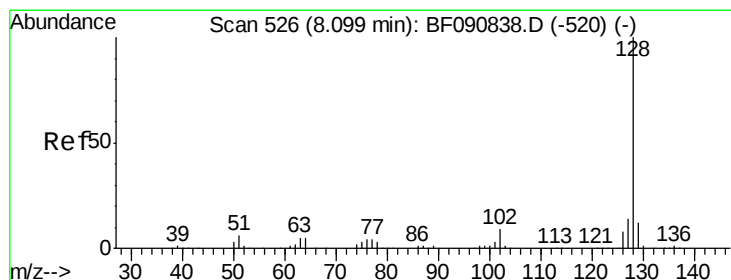
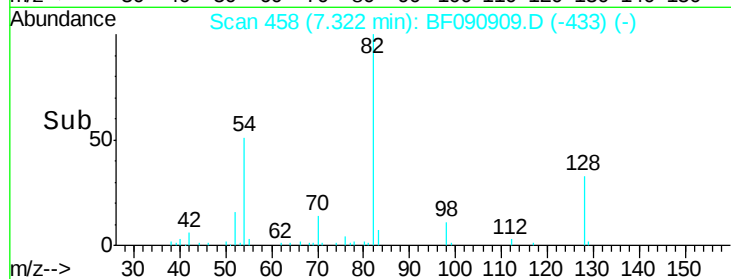
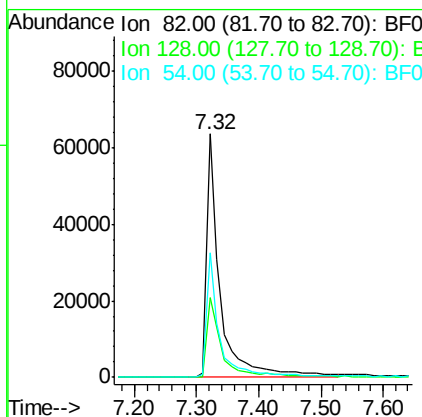
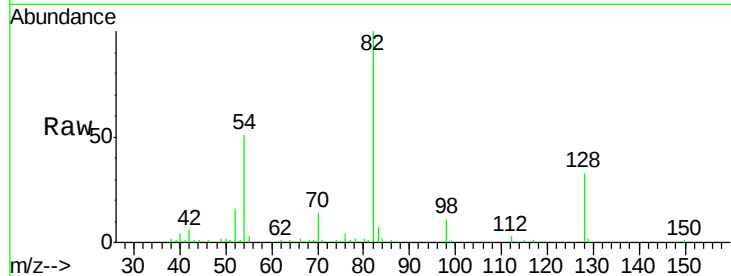
#23
 Nitrobenzene-d5
 Concen: 7.69 ng
 RT: 7.32 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	32.5	51.0	76.6#
54	51.1	47.5	71.3

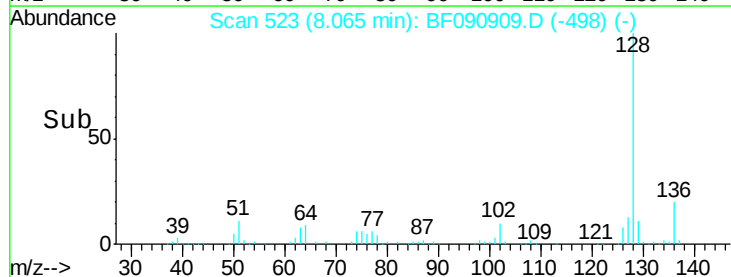
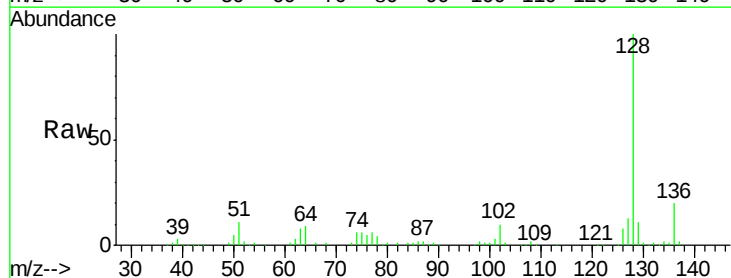
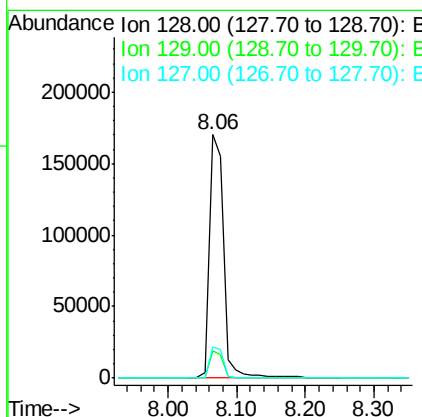
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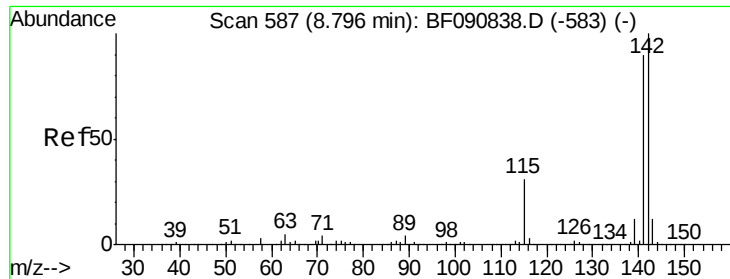
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#31
 Naphthalene
 Concen: 6.46 ng
 RT: 8.06 min Scan# 523
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.4	12.6
127	12.9	9.9	14.9





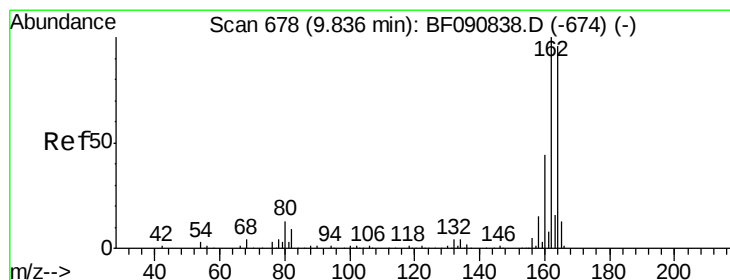
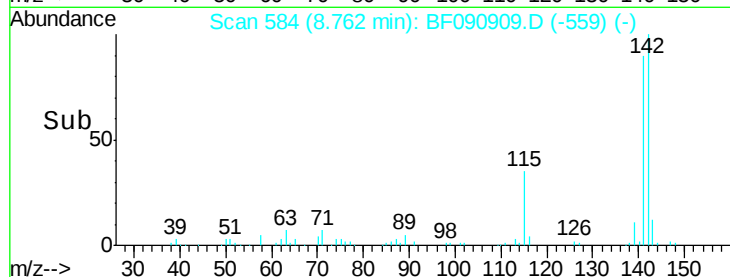
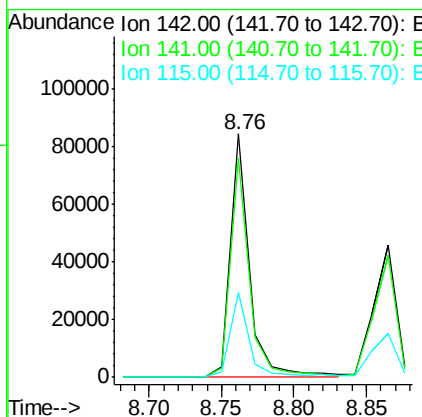
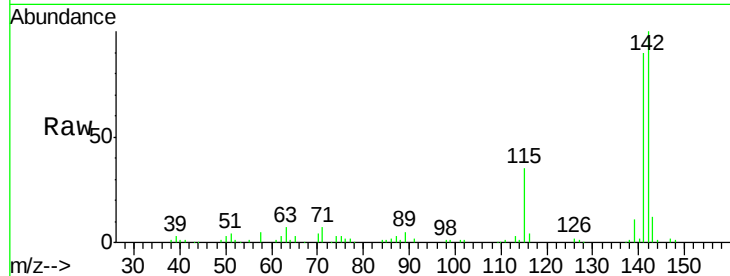
#37
 2-Methylnaphthalene
 Concen: 3.10 ng
 RT: 8.76 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleID :
 SB-2-COMPDL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.1	67.5	101.3
115	34.8	18.2	27.2

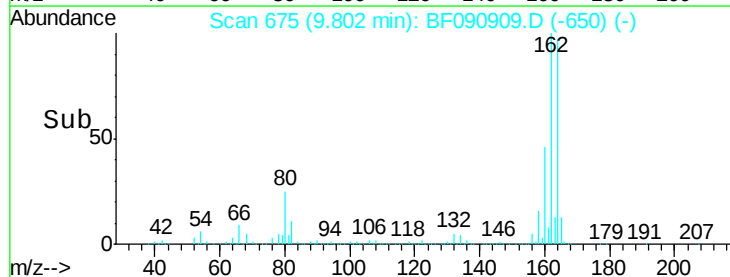
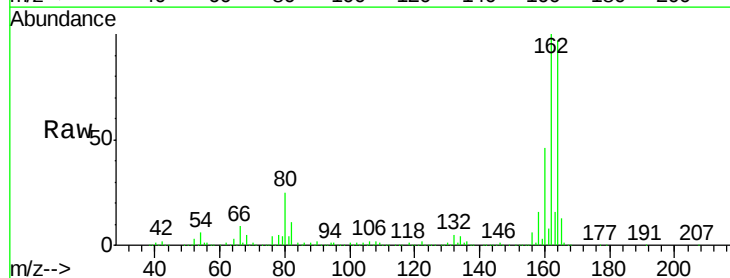
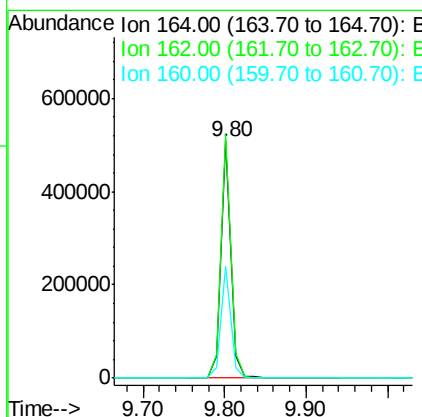
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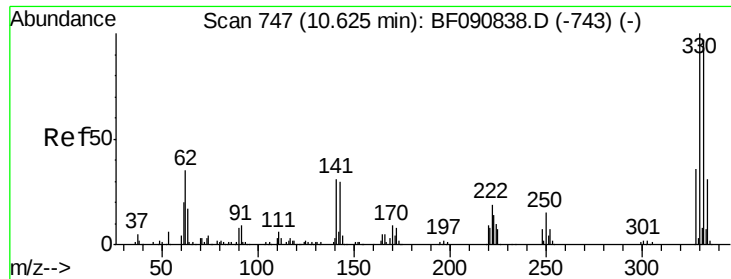
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.80 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	75.2	112.8
160	47.3	31.5	47.3





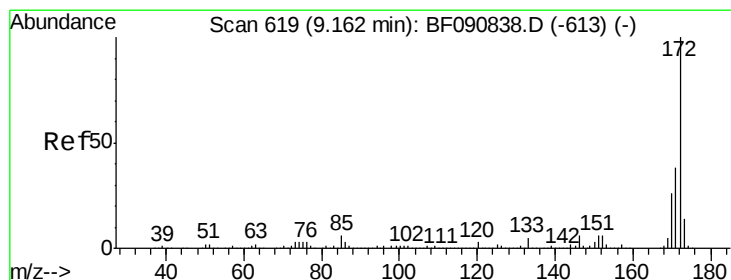
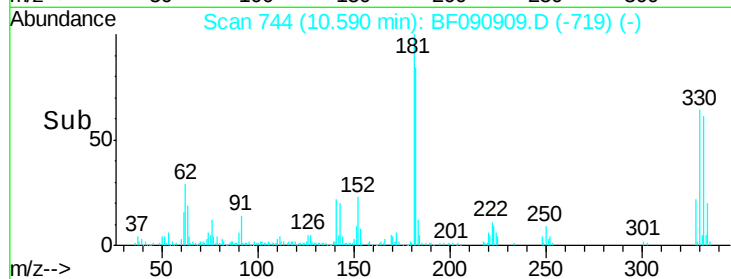
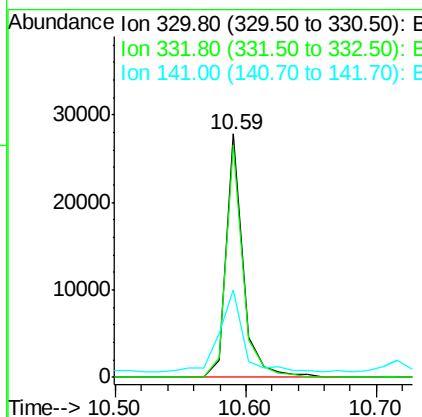
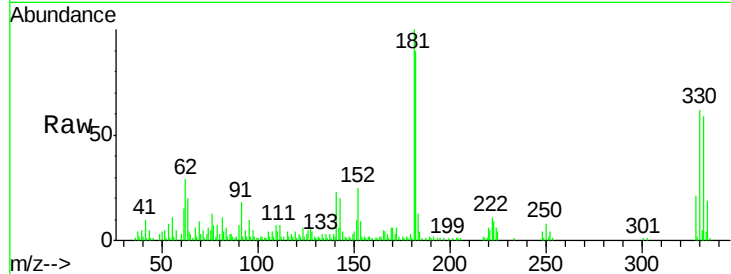
#41
 2,4,6-Tribromophenol
 Concen: 5.82 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	25356		
332	94.9	76.6	114.8	
141	49.2	29.7	44.5#	

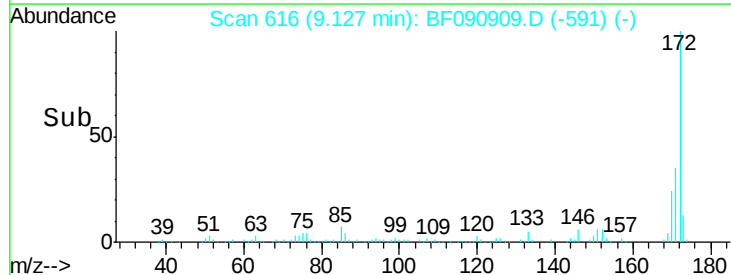
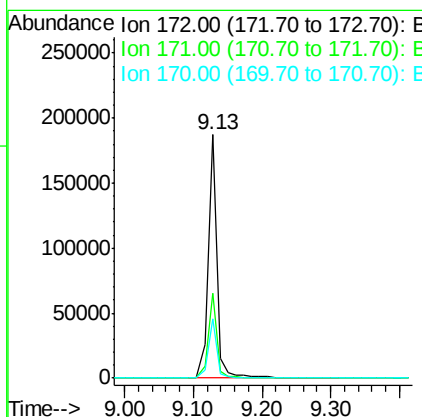
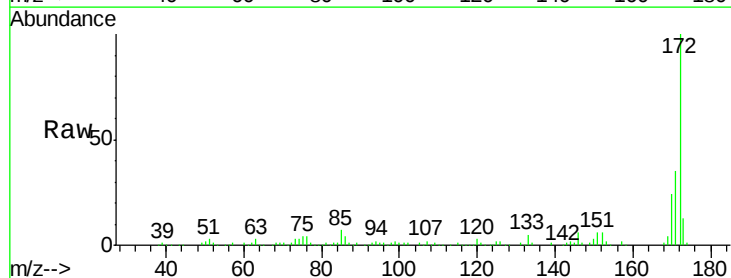
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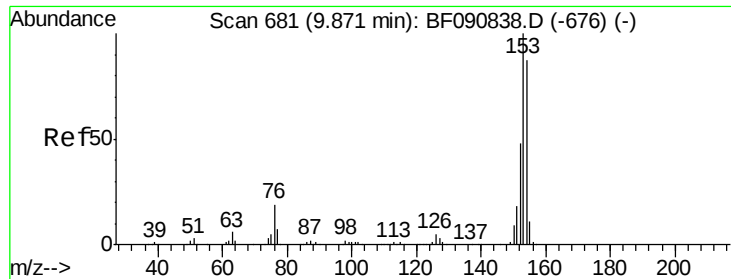
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#44
 2-Fluorobiphenyl
 Concen: 6.94 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	167732		
171	34.8	26.1	39.1	
170	24.4	17.4	26.2	





#51

Acenaphthene

Concen: 7.00 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF090909.D

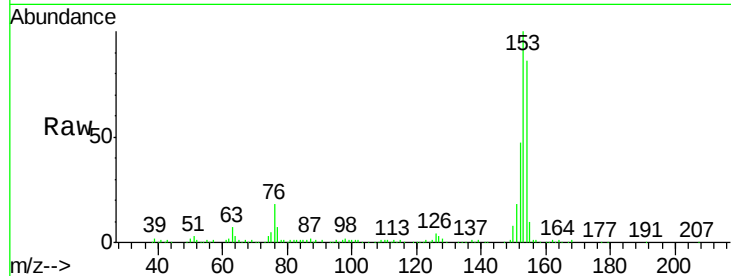
Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

ClientSampleId :

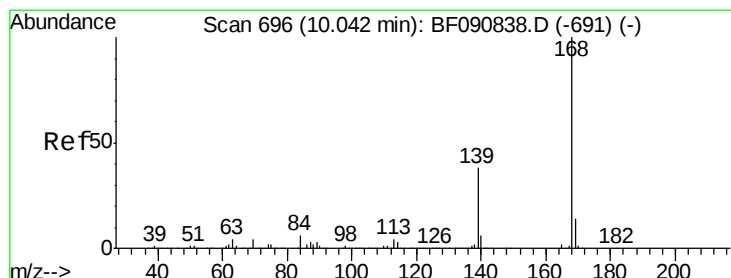
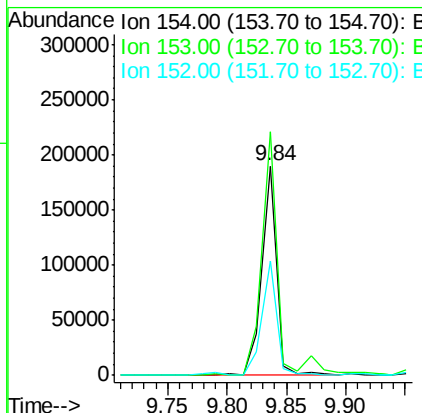
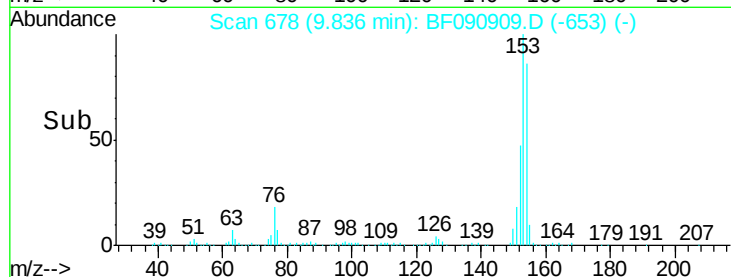
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Tgt Ion	Ratio	Resp	Lower	Upper
154	100	169645		
153	116.1	82.1	123.1	
152	54.7	37.9	56.9	

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#54

Dibenzofuran

Concen: 6.68 ng

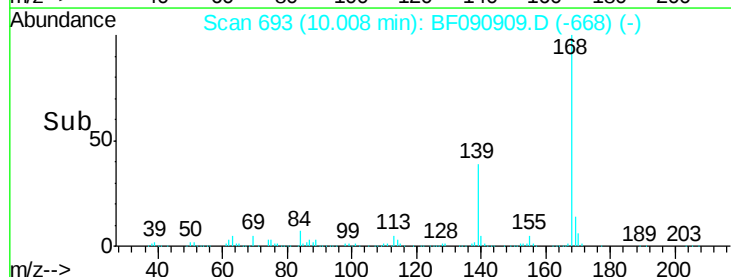
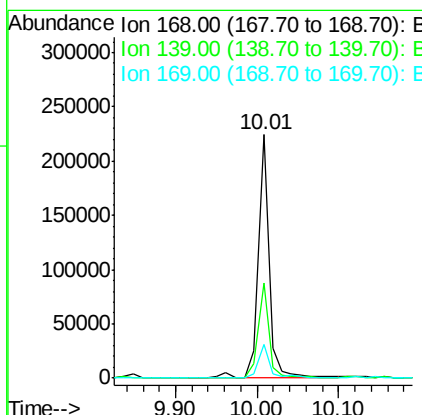
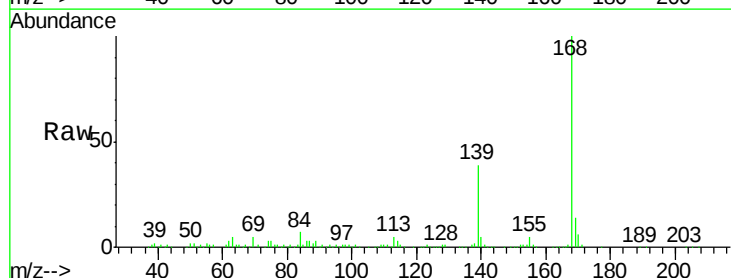
RT: 10.01 min Scan# 693

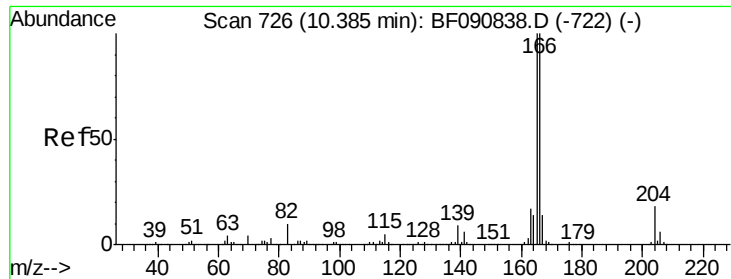
Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	208971		
139	39.2	24.2	36.2#	
169	14.0	10.6	15.8	





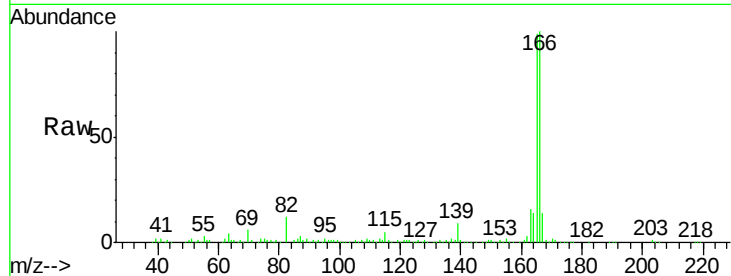
#57
Fluorene
 Concen: 6.61 ng
 RT: 10.35 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

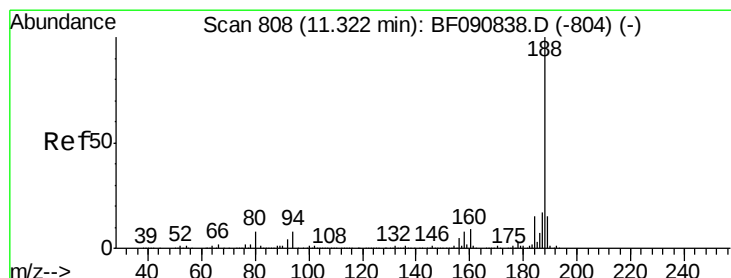
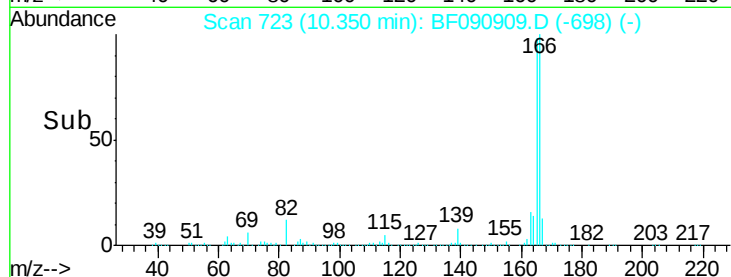
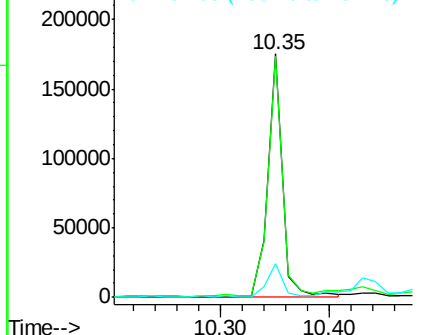
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	169232		
165	98.8	72.6	109.0	
167	13.8	10.6	16.0	

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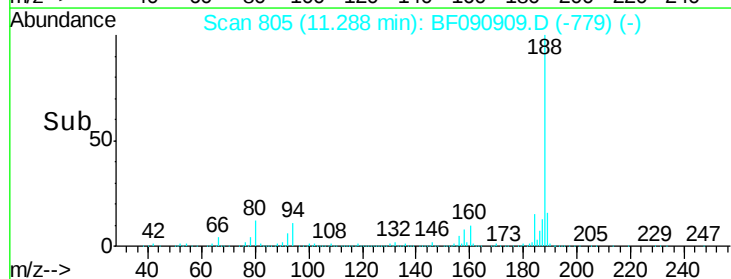
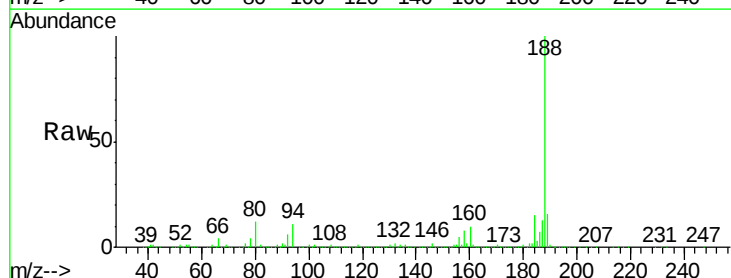
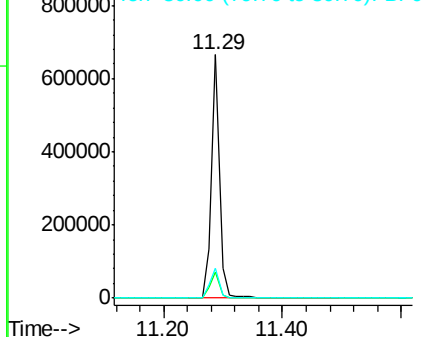
Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

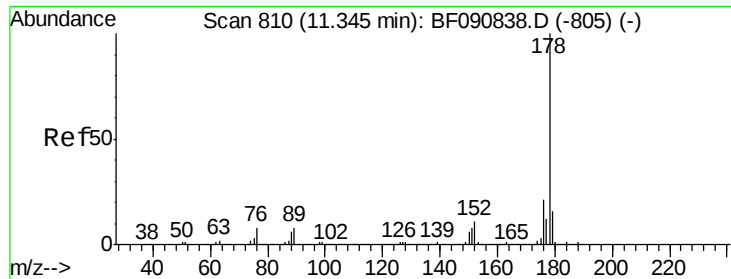


#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	628203		
94	10.8	11.1	16.7#	
80	12.0	11.0	16.4	

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





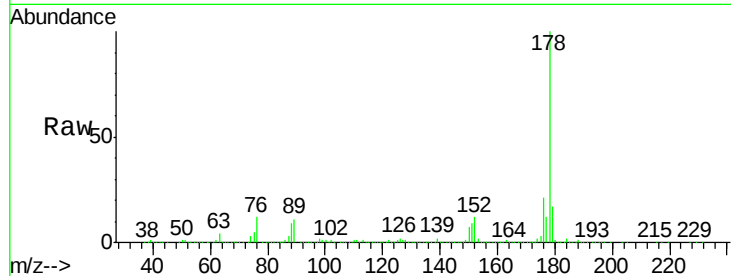
#70
Phenanthrene
Concen: 44.40 ng
RT: 11.31 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPDL

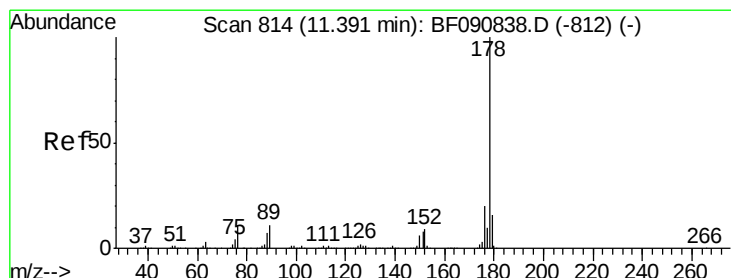
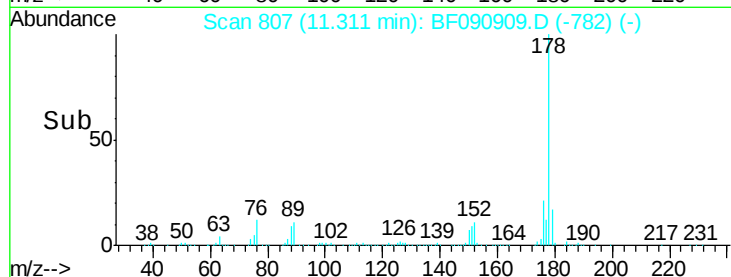
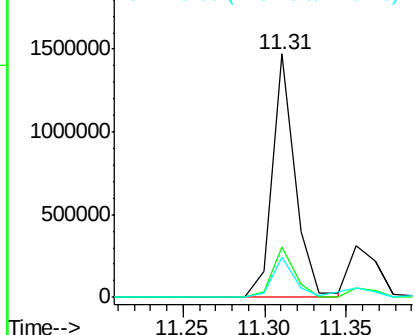
Tgt Ion:178 Resp: 1420302
Ion Ratio Lower Upper
178 100
176 20.7 13.8 20.8
179 16.5 12.2 18.2

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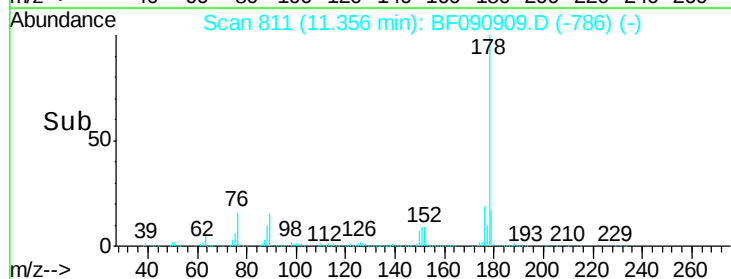
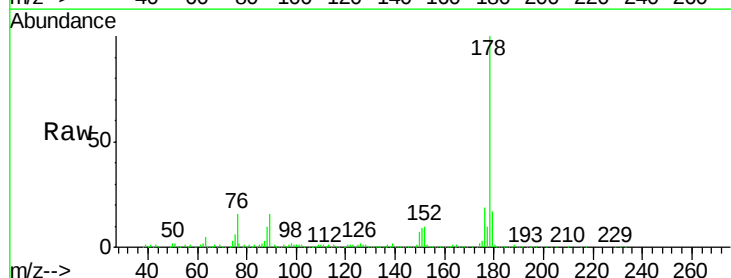
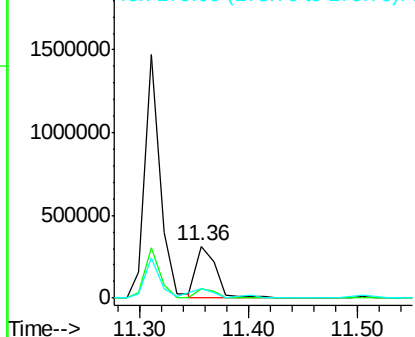
Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

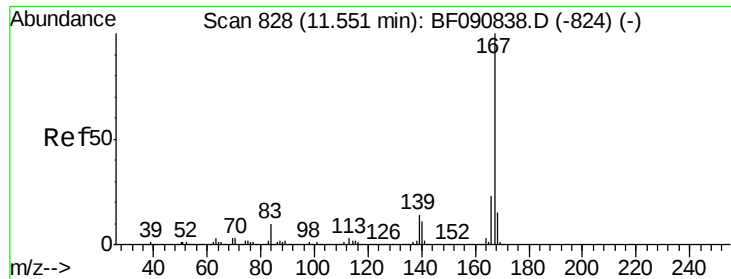


#71
Anthracene
Concen: 12.02 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion:178 Resp: 404971
Ion Ratio Lower Upper
178 100
176 18.9 14.1 21.1
179 17.1 12.2 18.2

Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





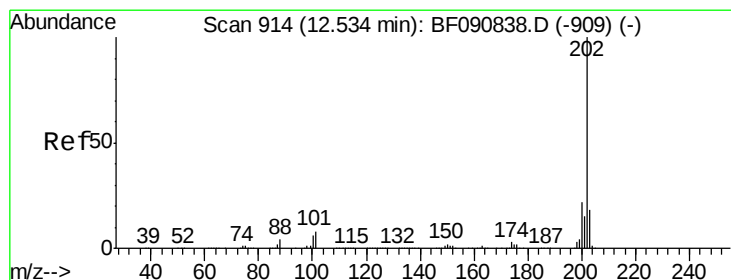
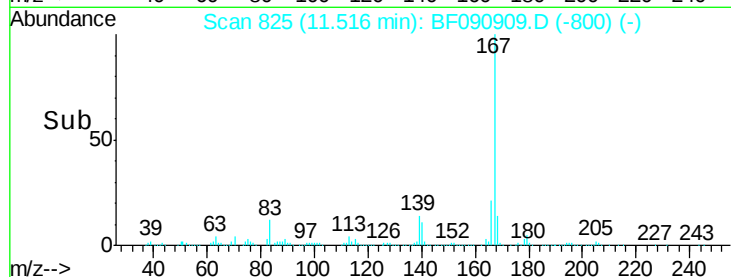
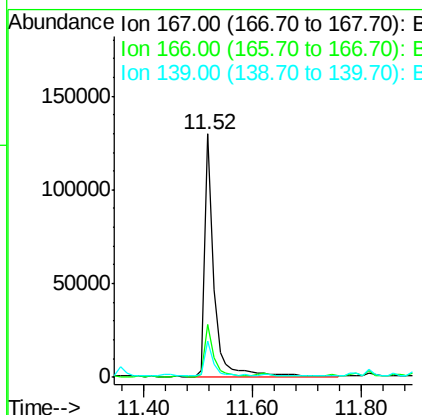
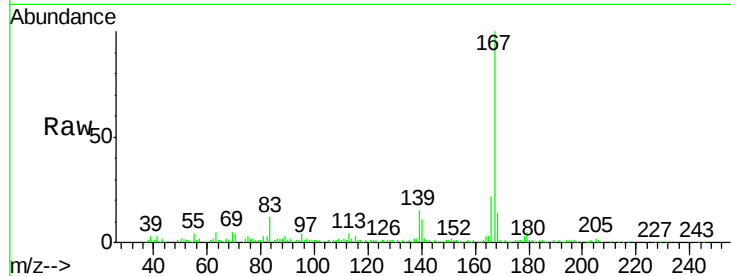
#72
 Carbazole
 Concen: 5.22 ng
 RT: 11.52 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	15.7	23.5
139	14.9	9.5	14.3

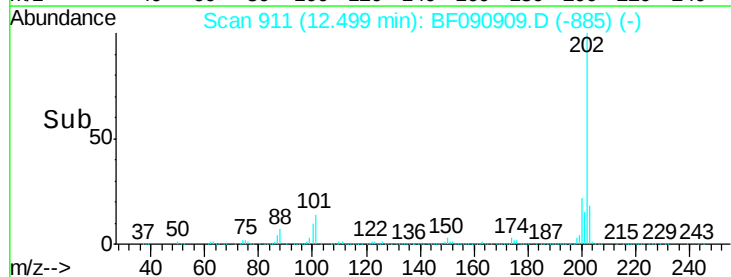
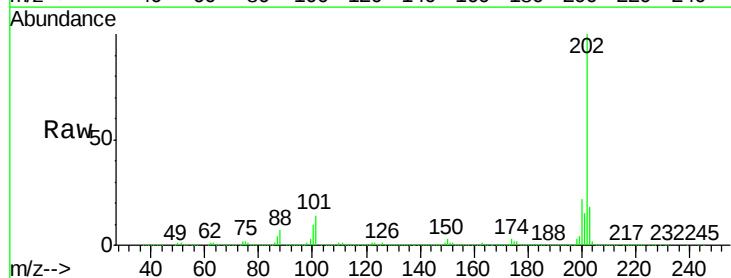
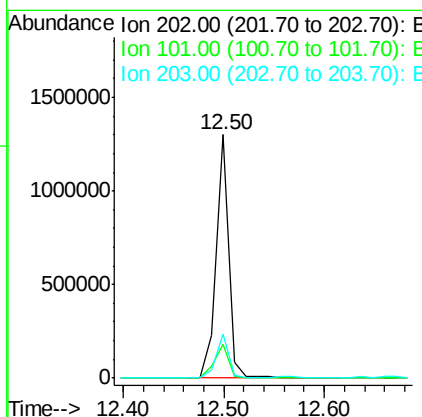
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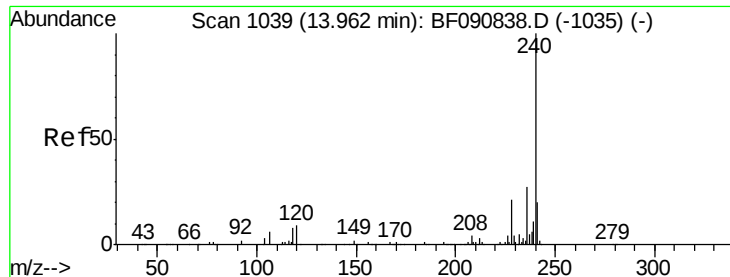
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#74
 Fluoranthene
 Concen: 32.22 ng
 RT: 12.50 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	38.3
203	18.2	0.0	37.3





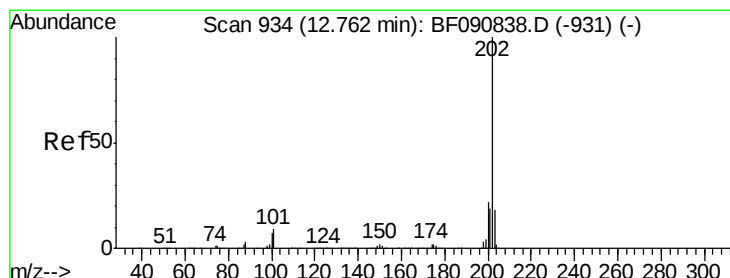
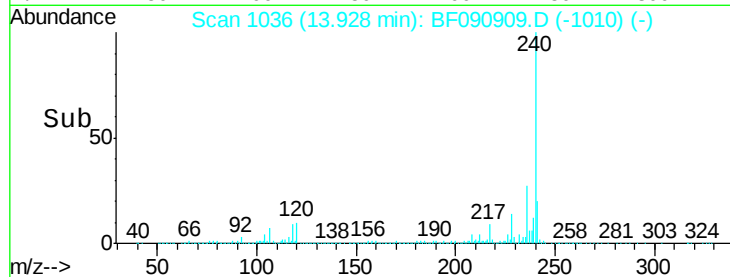
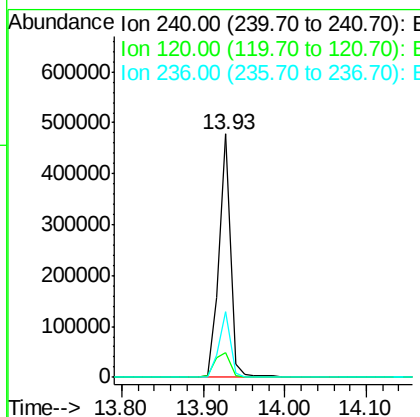
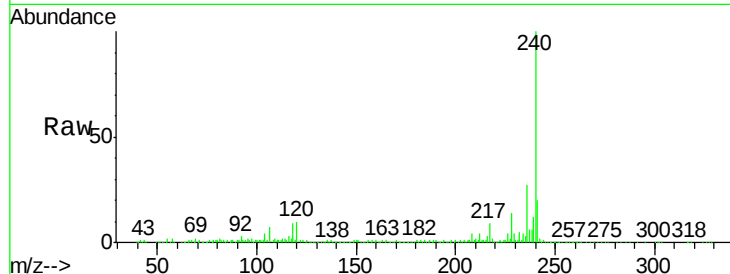
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.93 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPDL

Tgt Ion: 240 Resp: 469555
Ion Ratio Lower Upper
240 100
120 10.2 16.2 24.2#
236 27.2 18.4 27.6

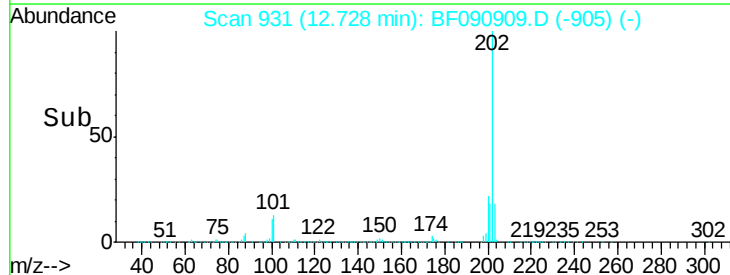
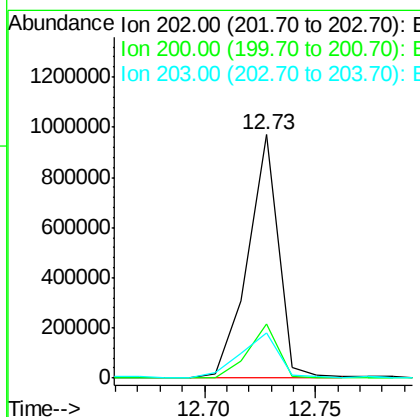
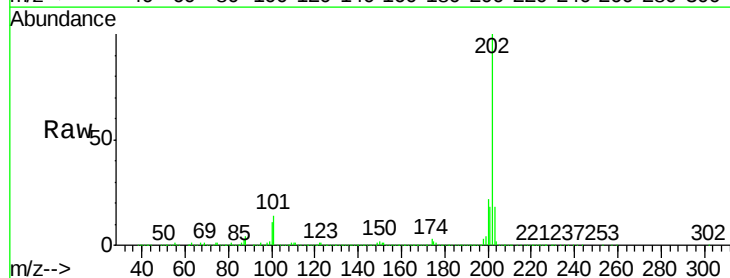
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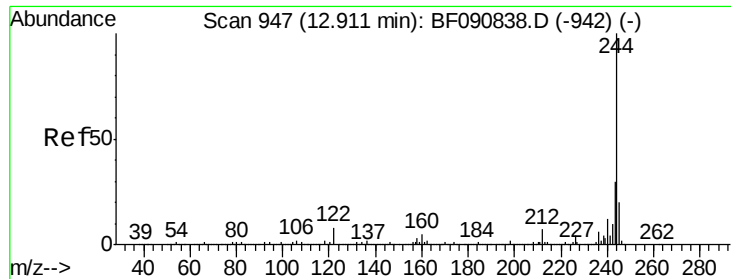
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#77
Pyrene
Concen: 31.27 ng m
RT: 12.73 min Scan# 931
Delta R.T. 0.00 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion: 202 Resp: 929194
Ion Ratio Lower Upper
202 100
200 22.4 15.0 22.4#
203 18.4 14.1 21.1





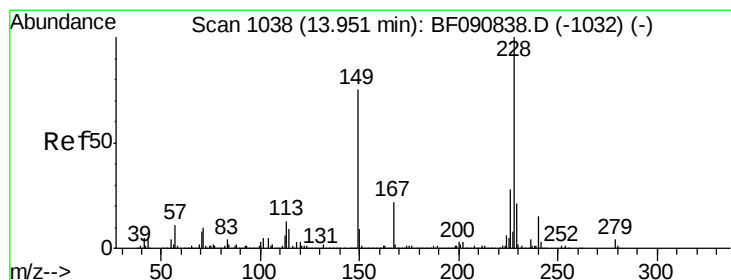
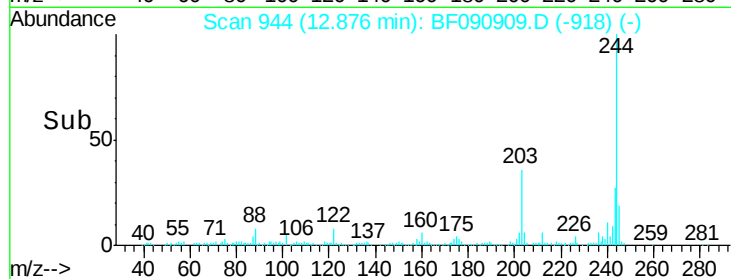
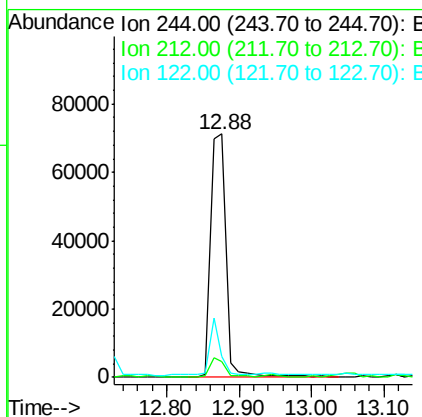
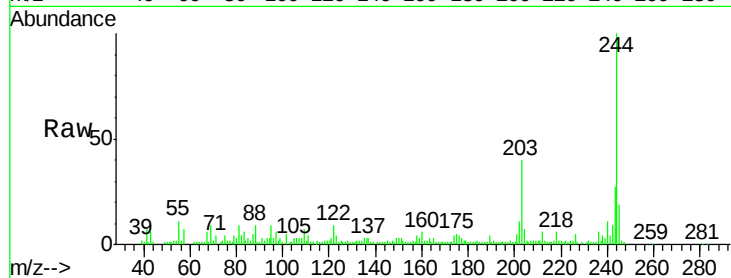
#78
 Terphenyl-d14
 Concen: 5.64 ng
 RT: 12.88 min Scan# 944
 Delta R.T. 0.00 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-2-COMPDL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	4.3	6.5
122	8.8	17.4	26.2

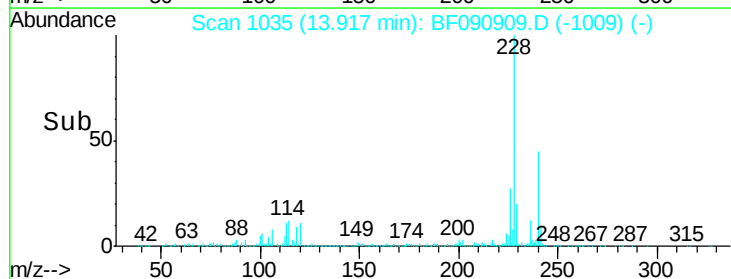
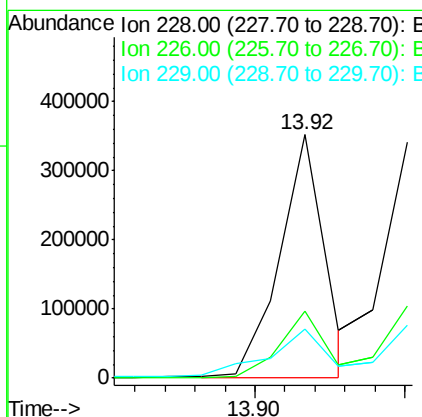
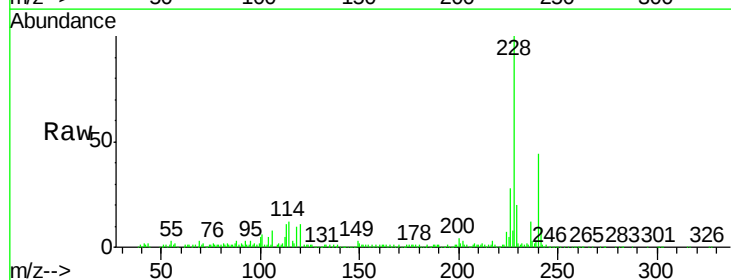
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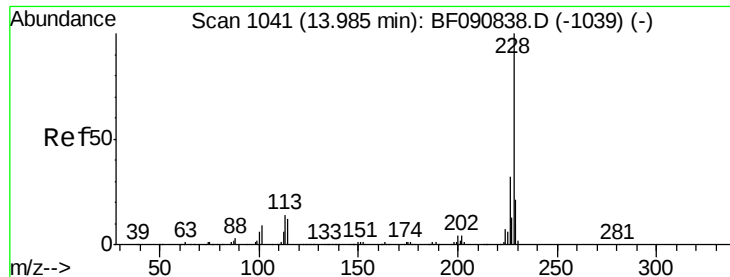
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#80
 Benzo(a)anthracene
 Concen: 14.83 ng m
 RT: 13.92 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: BF090909.D
 Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	20.0	30.0
229	20.1	15.4	23.2





#82

Chrysene

Concen: 13.36 ng m

RT: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Instrument :

BNA_F

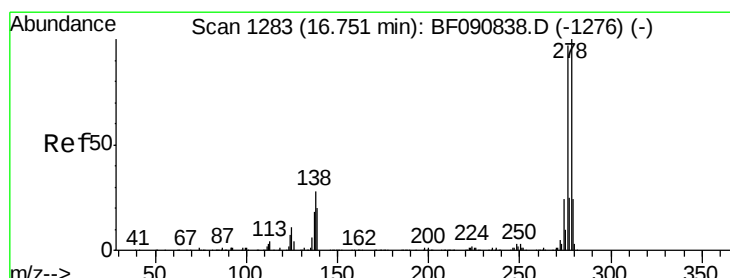
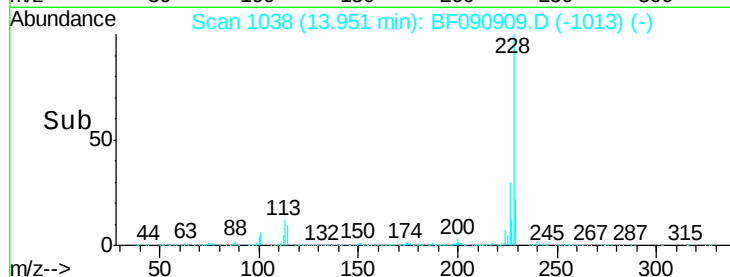
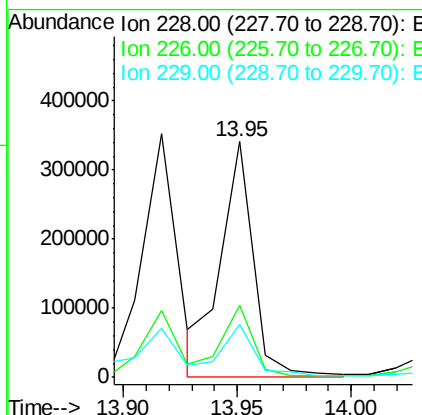
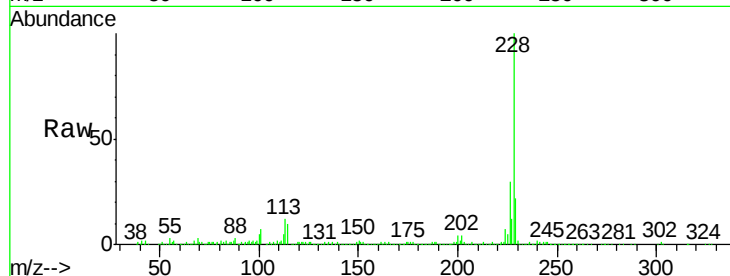
ClientSampleId :

SB-2-COMPDL

Tgt Ion:	228	Resp:	336763
Ion Ratio	Lower	Upper	
228	100		
226	30.5	21.0	31.4
229	22.4	15.6	23.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.17 ng

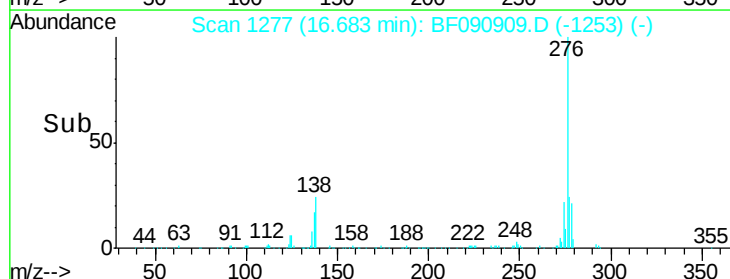
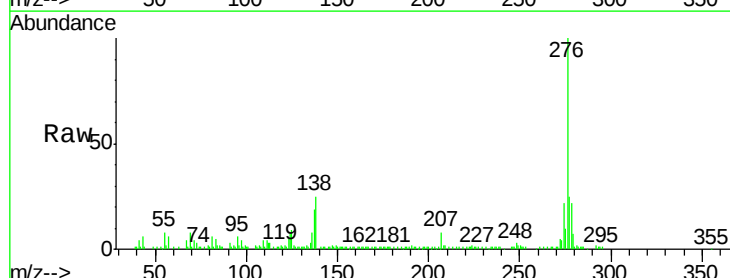
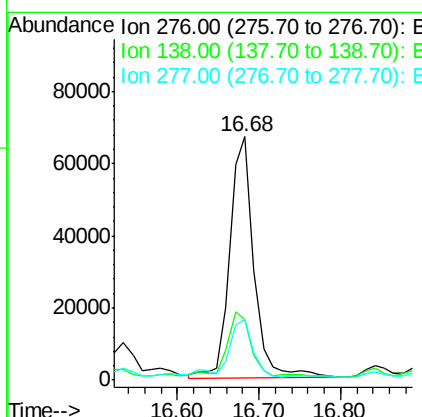
RT: 16.68 min Scan# 1277

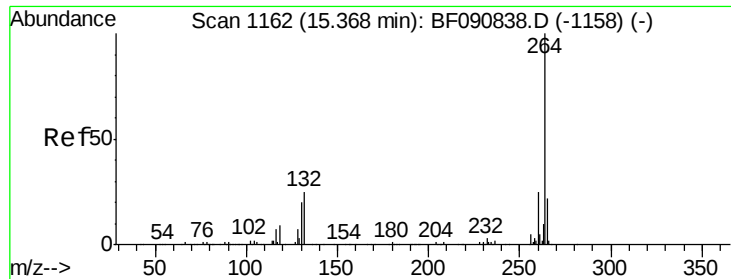
Delta R.T. -0.02 min

Lab File: BF090909.D

Acq: 28 Oct 2016 14:48

Tgt Ion:	276	Resp:	137761
Ion Ratio	Lower	Upper	
276	100		
138	29.3	25.7	38.5
277	27.0	15.6	23.4





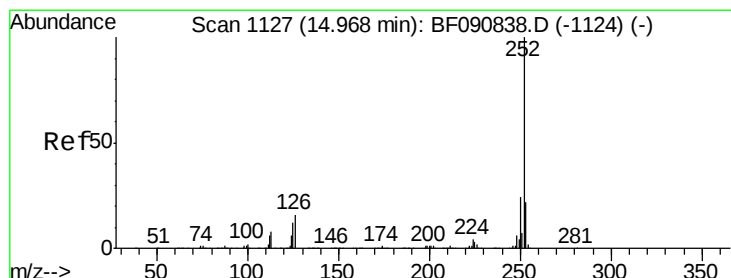
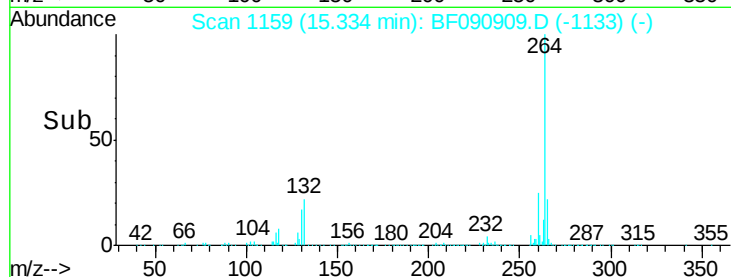
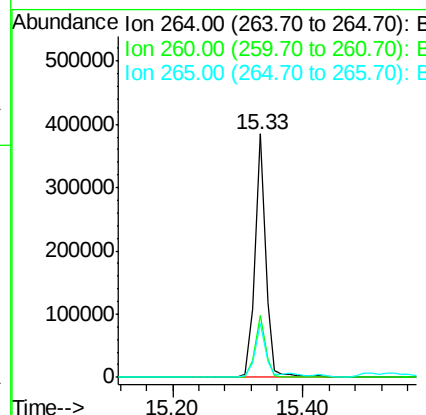
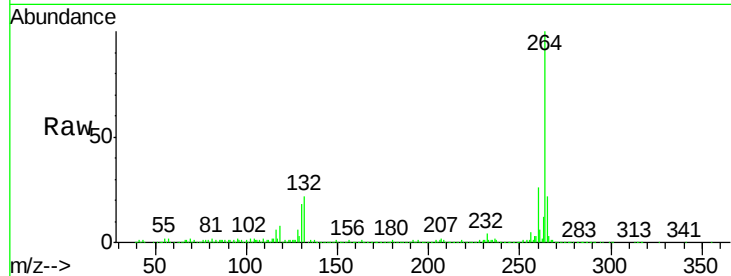
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampled :
SB-2-COMPDL

Tgt Ion: 264 Resp: 446083
Ion Ratio Lower Upper
264 100
260 25.6 16.7 25.1#
265 22.0 17.2 25.8

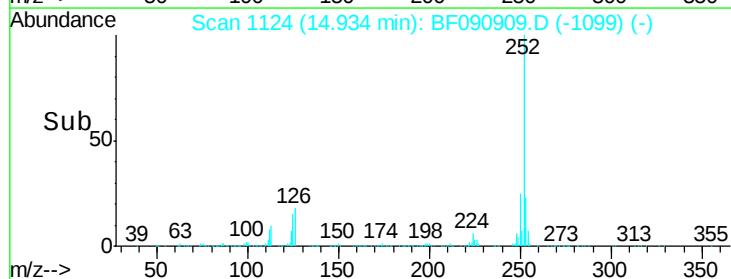
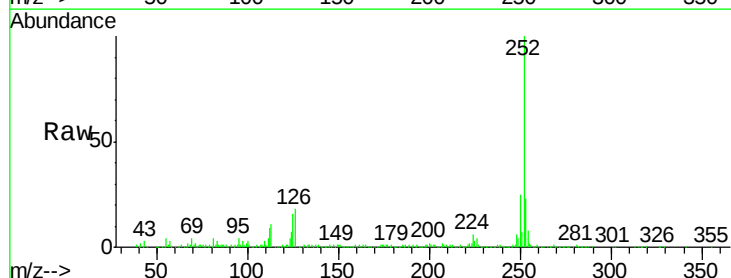
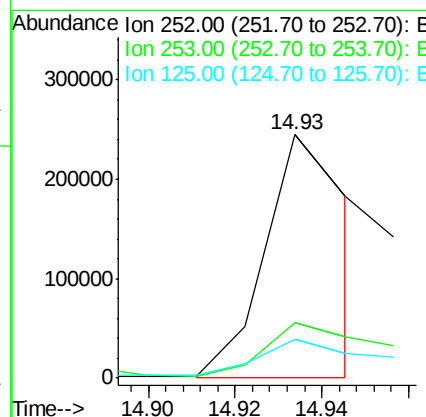
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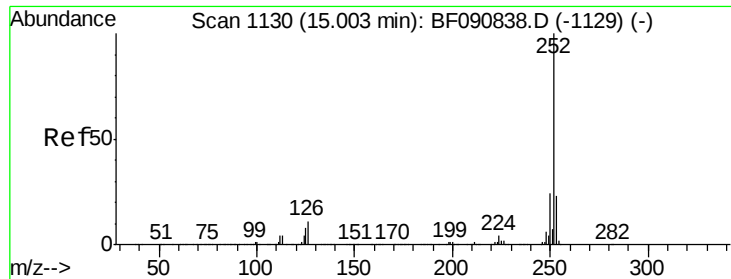
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#87
Benzo(b)fluoranthene
Concen: 10.97 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

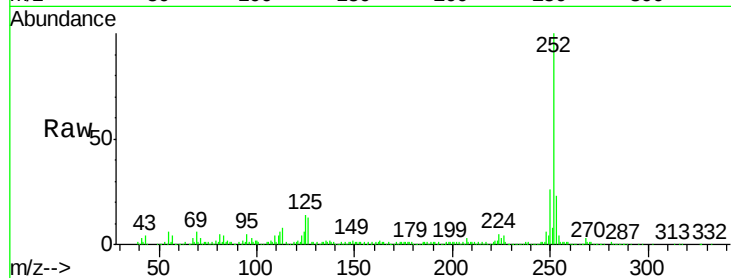
Tgt Ion: 252 Resp: 329109
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 15.9 17.1 25.7#





#88
Benzo(k)fluoranthene
Concen: 6.50 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

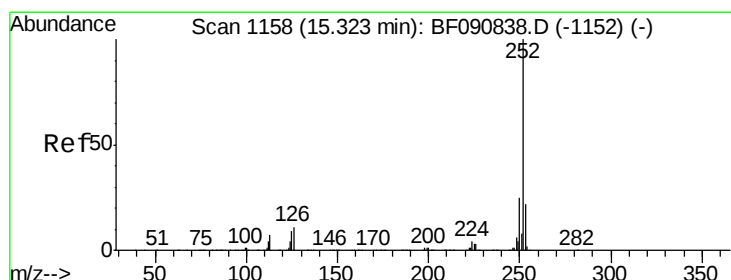
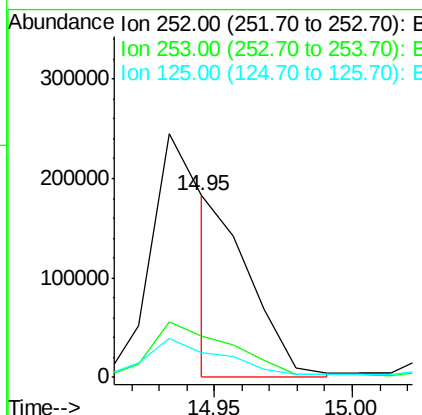
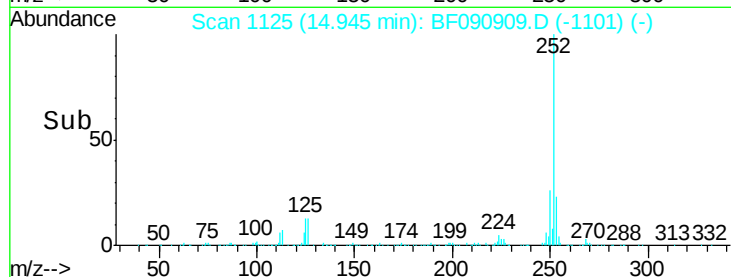
Instrument :
BNA_F
ClientSampleId :
SB-2-COMPDL



Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.0	17.0	25.4
125	13.9	16.0	24.0

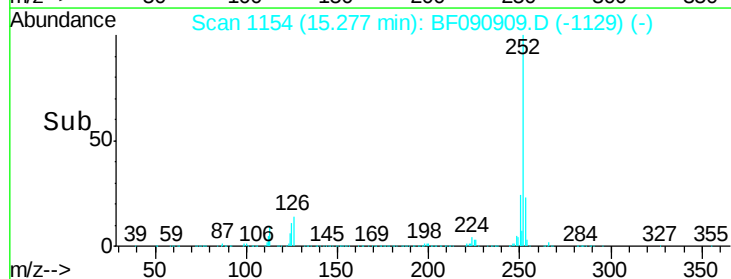
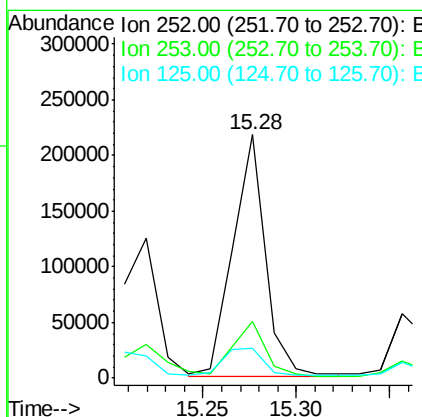
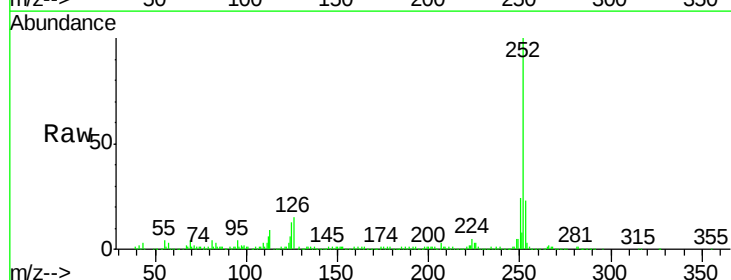
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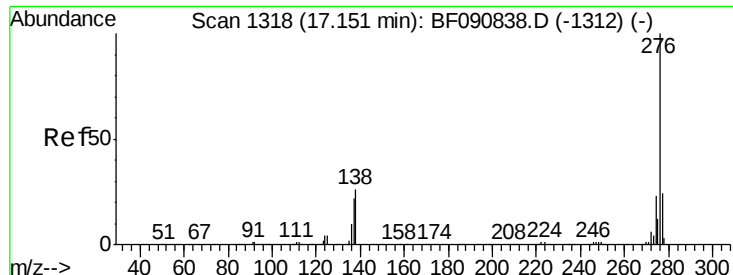
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#89
Benzo(a)pyrene
Concen: 10.41 ng
RT: 15.28 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.4	17.2	25.8
125	12.5	18.0	27.0





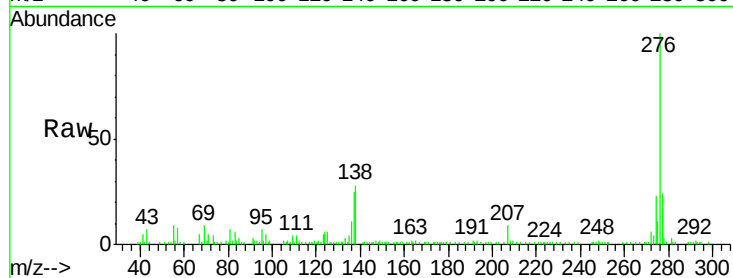
#91
Benzo(g,h,i)perylene
Concen: 5.41 ng
RT: 17.08 min Scan# 1312
Delta R.T. -0.02 min
Lab File: BF090909.D
Acq: 28 Oct 2016 14:48

Instrument :
BNA_F
ClientSampleId :
SB-2-COMPDL

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	23.6	17.8	26.6
138	28.2	34.6	51.8

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

