

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
 Data File : BF091045.D
 Acq On : 5 Nov 2016 2:36
 Operator : UM/SJ
 Sample : H5509-17 30X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-1

Manual Integrations
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Quant Time: Nov 07 06:00:37 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 04 11:03:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	140750	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	546100	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	263453	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	333386	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	315781	20.00	ng	0.00
86) Perylene-d12	15.25	264	229316	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.30	112	32869	3.86	ng	0.01
7) Phenol-d6	6.36	99	11987	1.04	ng	0.01
23) Nitrobenzene-d5	7.28	82	32192	3.22	ng	0.00
41) 2,4,6-Tribromophenol	10.53	330	5894	2.47	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	45277	2.96	ng	0.00
78) Terphenyl-d14	12.81	244	29327	2.32	ng	0.00

Target Compounds

						Qvalue
25) Isophorone	7.53	82	74296	3.85	ng	96
31) Naphthalene	8.01	128	154271	5.91	ng	99
37) 2-Methylnaphthalene	8.70	142	54037	3.22	ng	98
51) Acenaphthene	9.78	154	118046	8.26	ng	99
54) Dibenzofuran	9.95	168	173995	9.05	ng	94
57) Fluorene	10.29	166	179242	11.40	ng	100
70) Phenanthrene	11.25	178	1670625	94.26	ng	99
71) Anthracene	11.30	178	384813	20.42	ng	98
72) Carbazole	11.46	167	137426	8.09	ng	96
74) Fluoranthene	12.44	202	1973497	107.37	ng	92
77) Pyrene	12.66	202	1477554	71.45	ng	97
80) Benzo(a)anthracene	13.85	228	778328	43.41	ng	99
82) Chrysene	13.88	228	525678	29.73	ng	97
83) Bis(2-ethylhexyl)phthalate	13.85	149	43124	3.22	ng	96
85) Indeno(1,2,3-cd)pyrene	16.56	276	201639	13.75	ng	95
87) Benzo(b)fluoranthene	14.87	252	634779m	40.81	ng	
88) Benzo(k)fluoranthene	14.89	252	251237m	18.41	ng	
89) Benzo(a)pyrene	15.20	252	385899	28.50	ng	99
90) Dibenzo(a,h)anthracene	16.57	278	57573m	4.92	ng	
91) Benzo(g,h,i)perylene	16.96	276	172186	16.27	ng	97

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

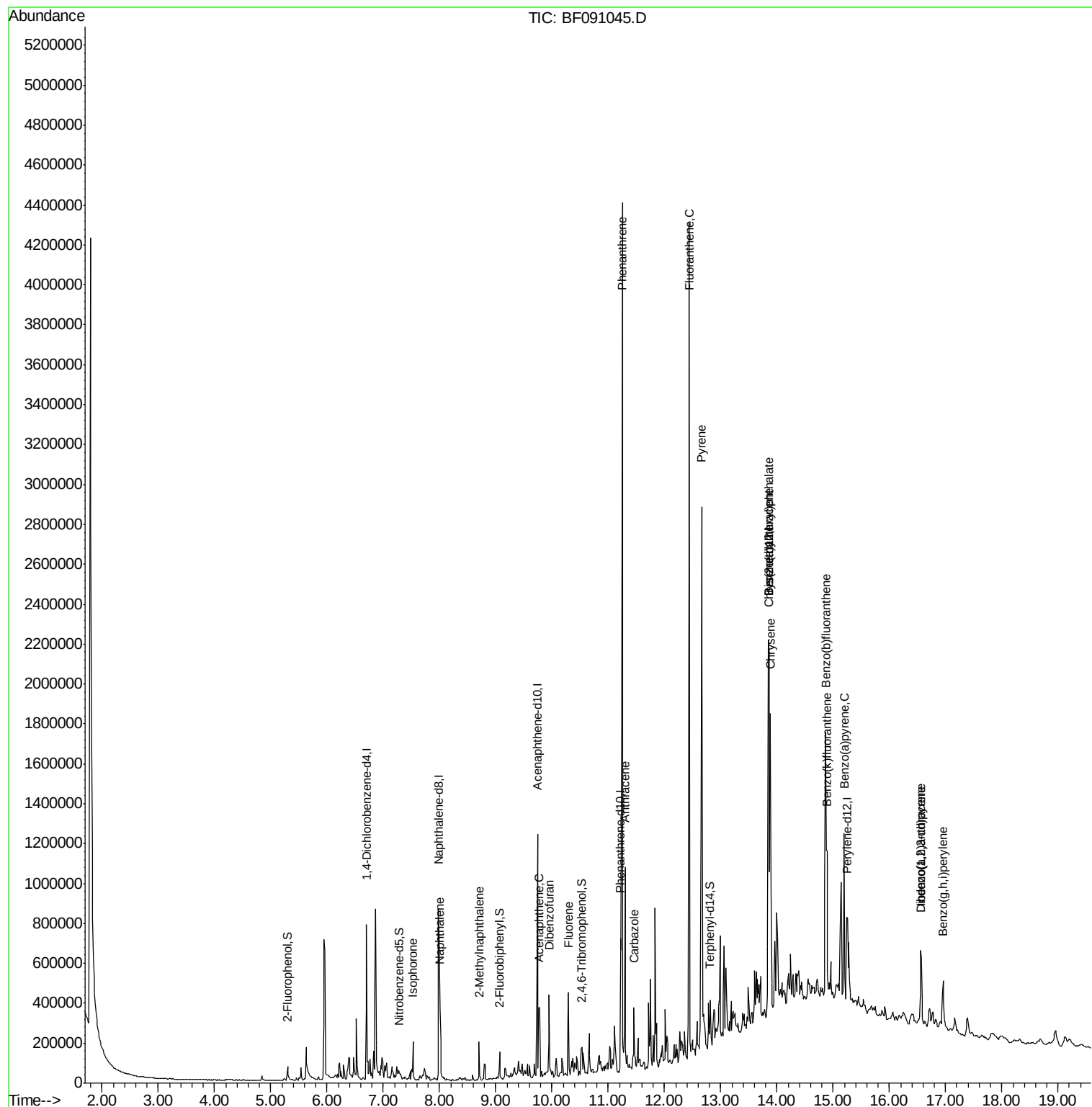
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
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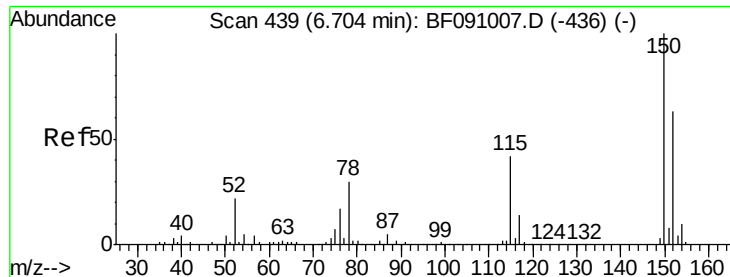
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Quant Time: Nov 07 06:00:37 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 04 11:03:12 2016
Response via : Initial Calibration





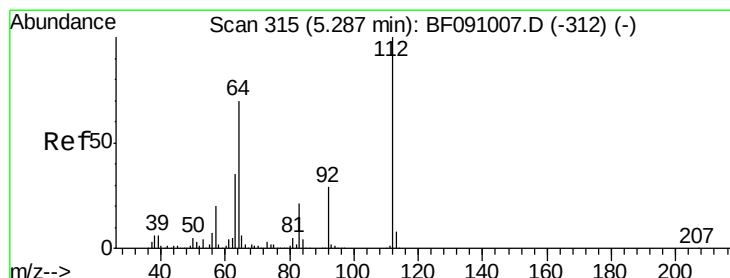
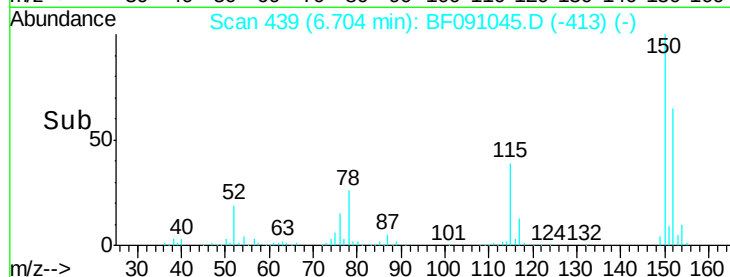
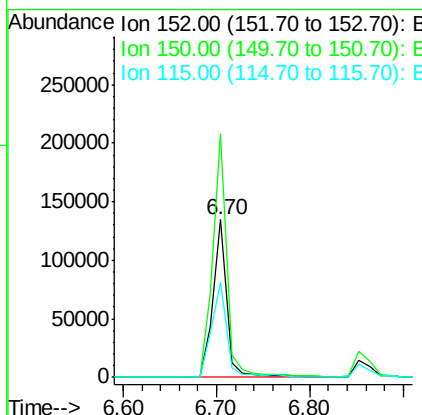
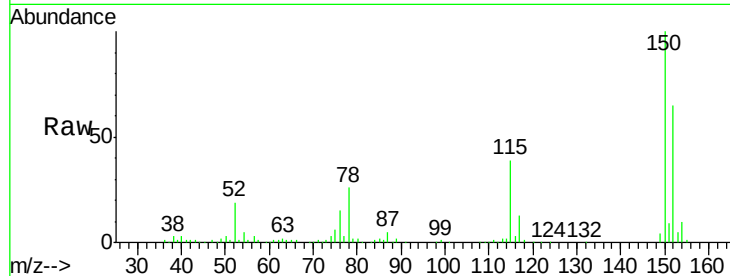
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.70 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Instrument :
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 ClientSampled :
 S-1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.7	126.8	190.2
115	60.6	53.3	79.9

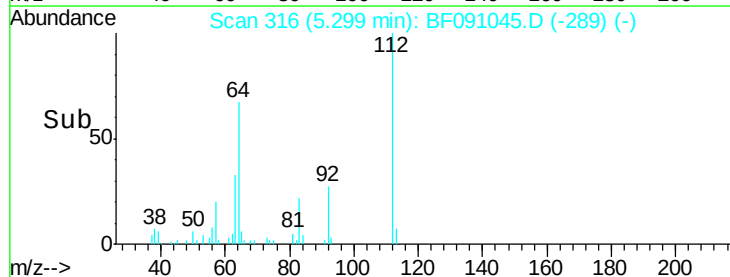
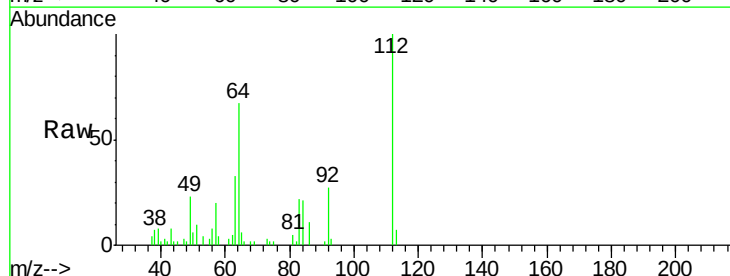
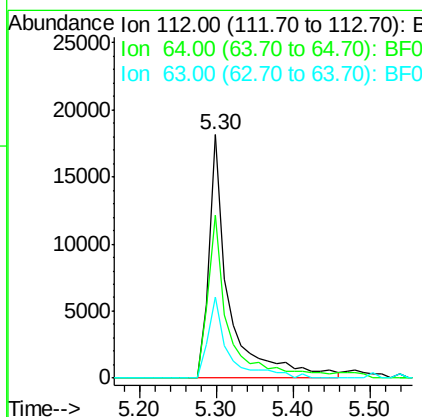
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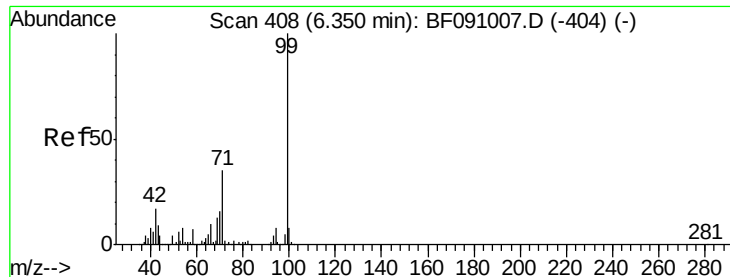
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#5
 2-Fluorophenol
 Concen: 3.86 ng
 RT: 5.30 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	55.8	83.6
63	33.3	28.0	42.0





#7

Phenol-d6

Concen: 1.04 ng

RT: 6.36 min Scan# 409

Delta R.T. 0.01 min

Lab File: BF091045.D

Acq: 5 Nov 2016 2:36

Instrument :

BNA_F

ClientSampled :

S-1

Tgt Ion: 99 Resp: 11987

Ion Ratio Lower Upper

99 100

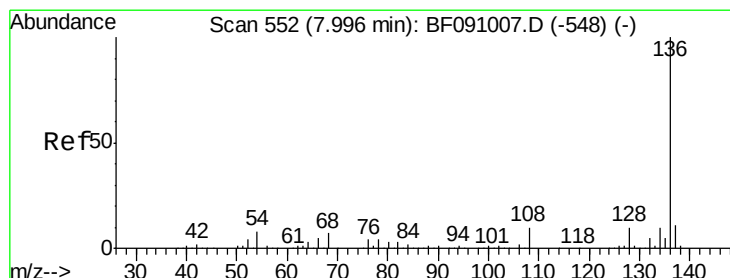
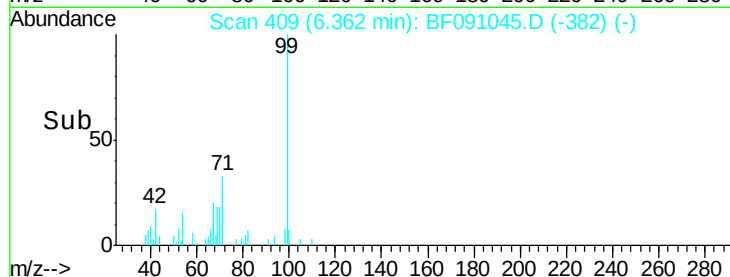
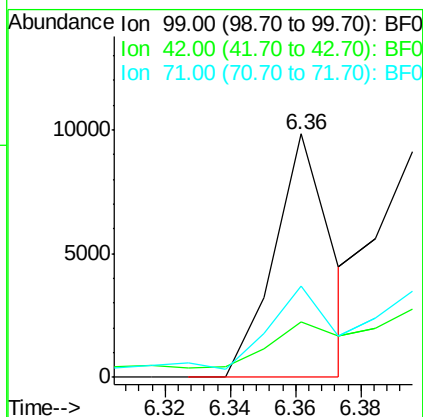
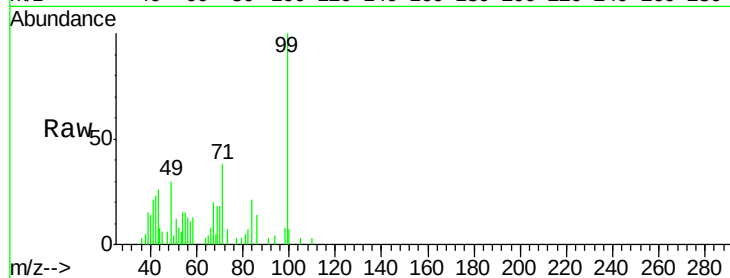
42 22.7 13.9 20.9#

71 37.6 27.8 41.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF091045.D

Acq: 5 Nov 2016 2:36

Tgt Ion: 136 Resp: 546100

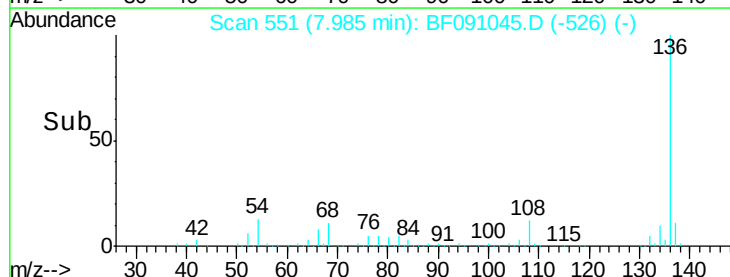
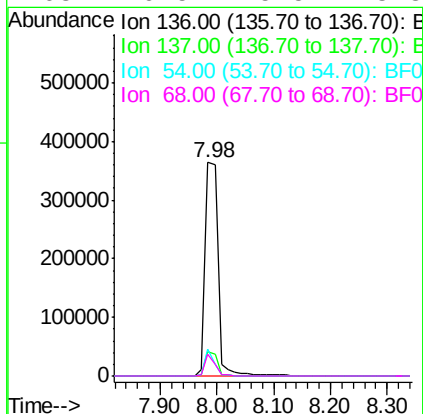
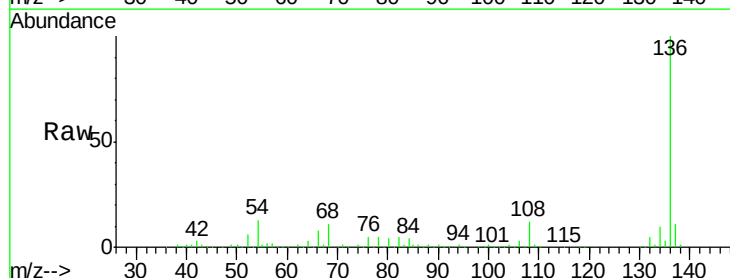
Ion Ratio Lower Upper

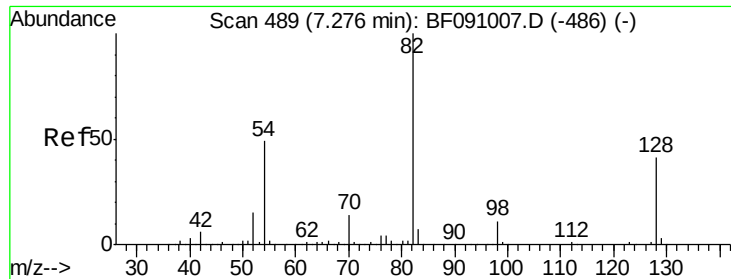
136 100

137 11.4 8.9 13.3

54 12.6 6.2 9.2#

68 10.5 5.5 8.3#





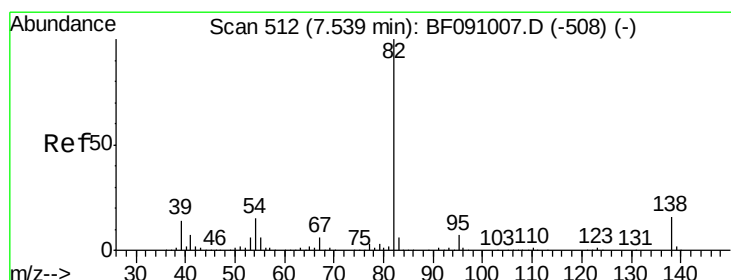
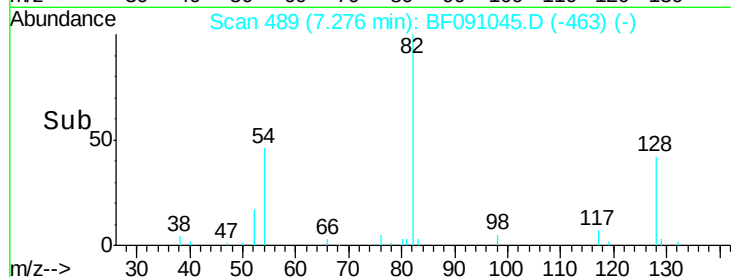
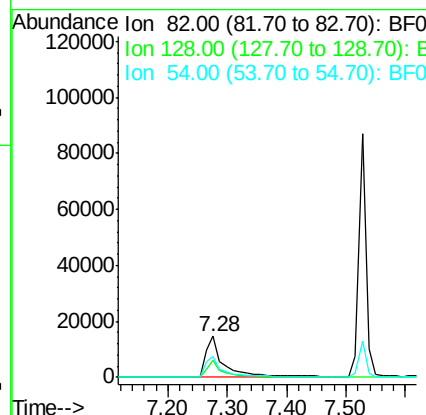
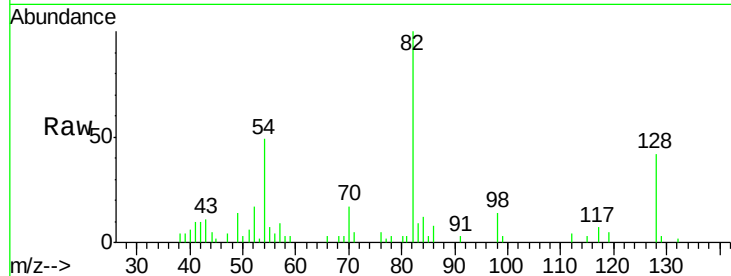
#23
 Nitrobenzene-d5
 Concen: 3.22 ng
 RT: 7.28 min Scan# 489
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Instrument :
 BNA_F
 ClientSampled :
 S-1

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	32192		
128	41.9	32.4	48.6	
54	49.3	39.2	58.8	

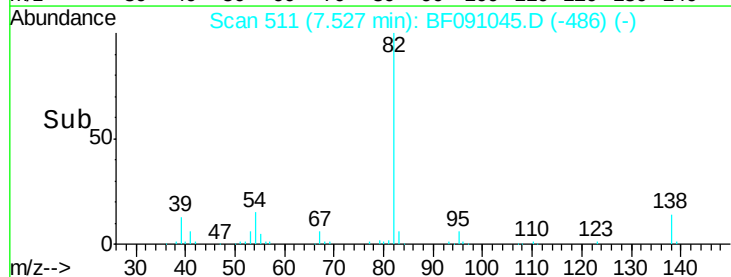
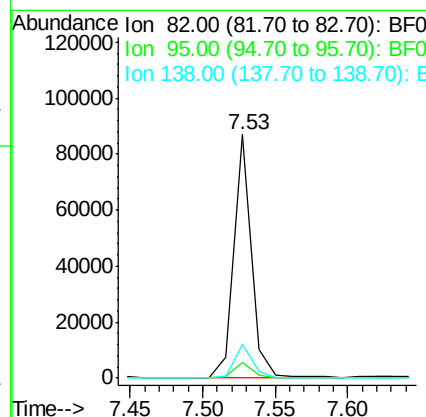
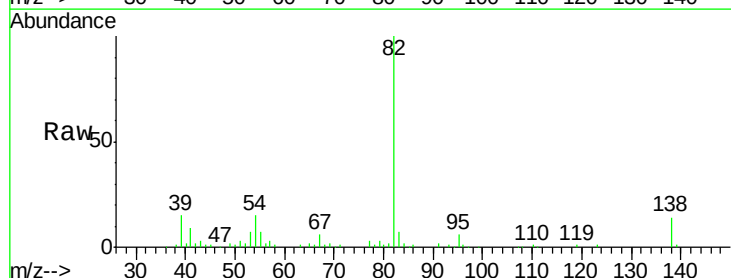
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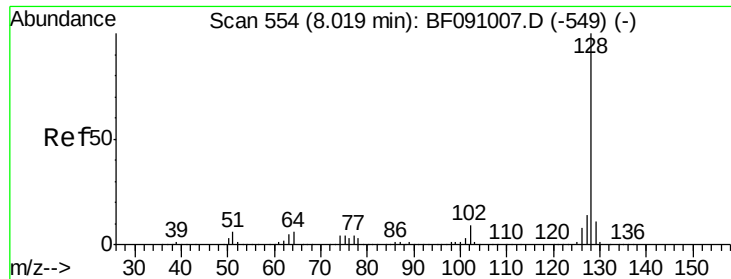
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#25
 Isophorone
 Concen: 3.85 ng
 RT: 7.53 min Scan# 511
 Delta R.T. -0.01 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	74296		
95	6.3	5.4	8.0	
138	13.8	13.0	19.4	





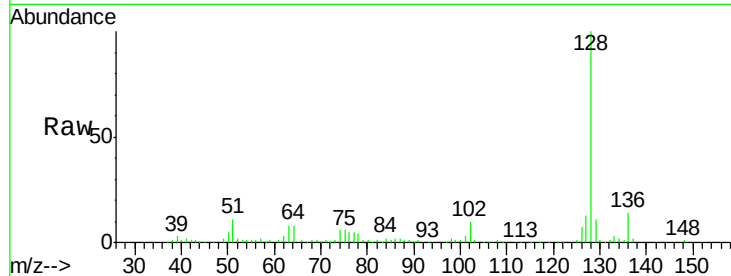
#31
Naphthalene
Concen: 5.91 ng
RT: 8.01 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampleId :
S-1

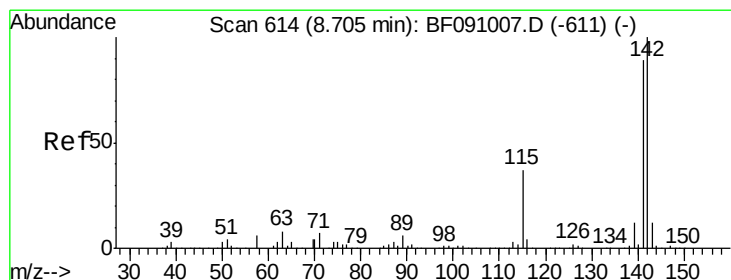
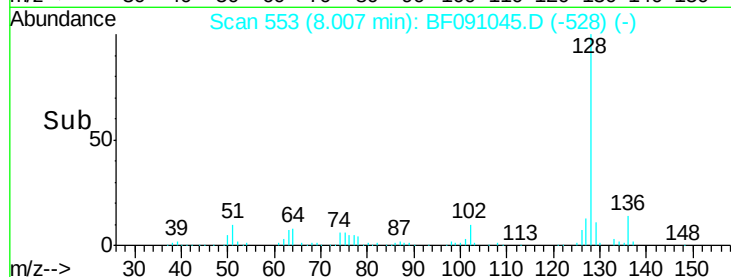
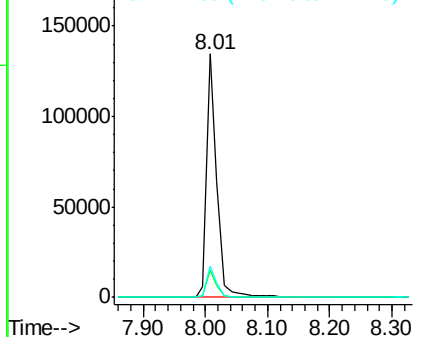
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	154271		
129	11.2	9.0	13.6	
127	12.9	10.9	16.3	

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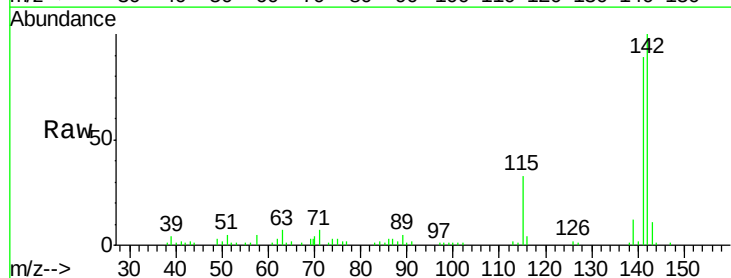


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

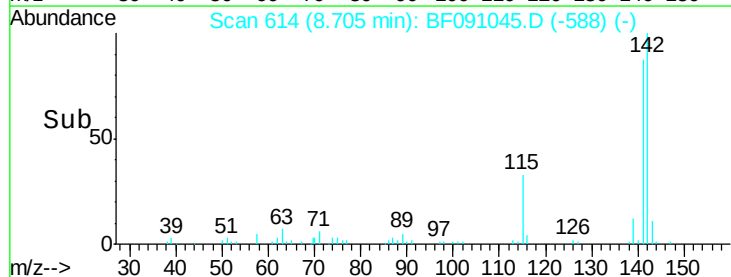
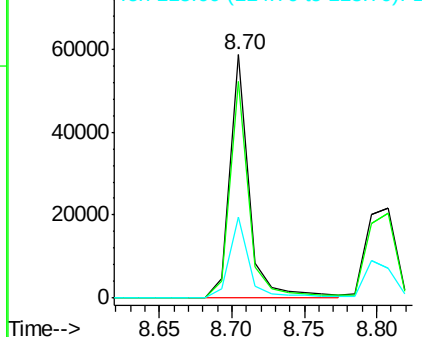


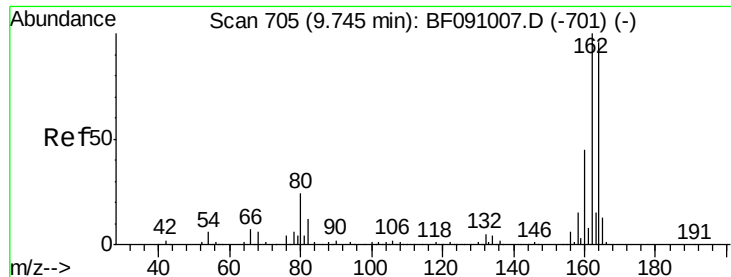
#37
2-Methylnaphthalene
Concen: 3.22 ng
RT: 8.70 min Scan# 614
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	54037		
141	88.8	71.3	106.9	
115	33.2	29.9	44.9	



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





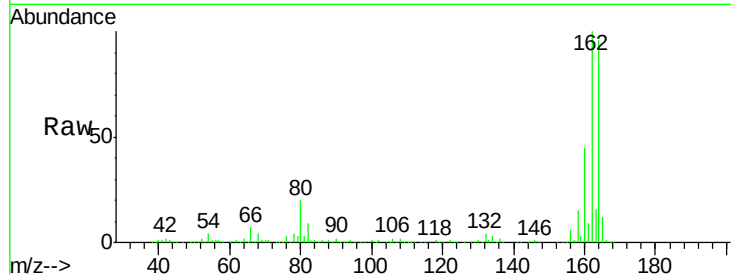
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.74 min Scan# 705
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Instrument :
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 ClientSampleId :
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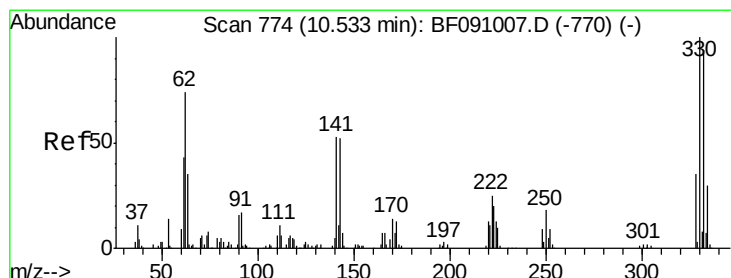
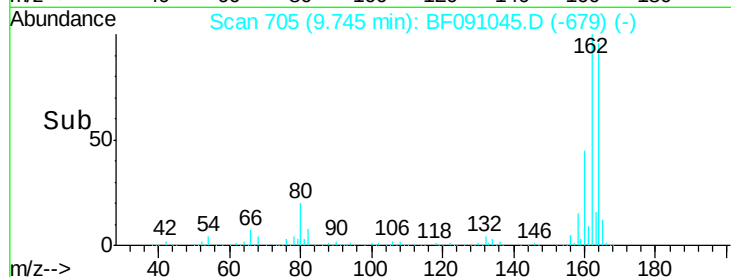
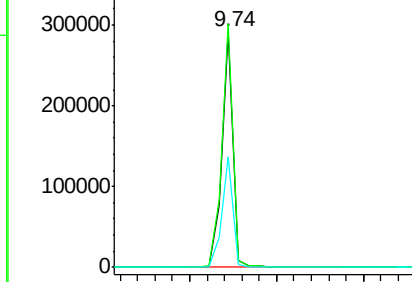
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	263453		
162	103.7	83.6	125.4	
160	47.0	37.9	56.9	

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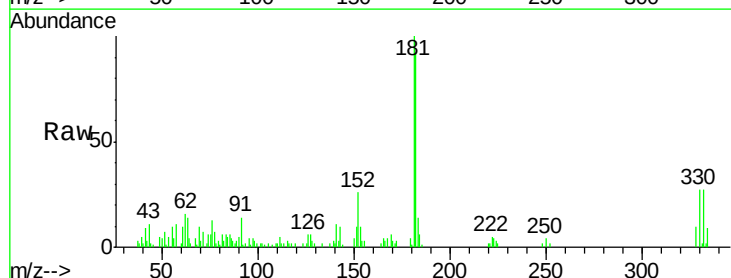


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

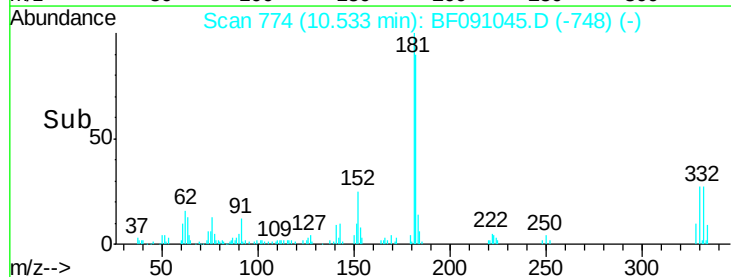
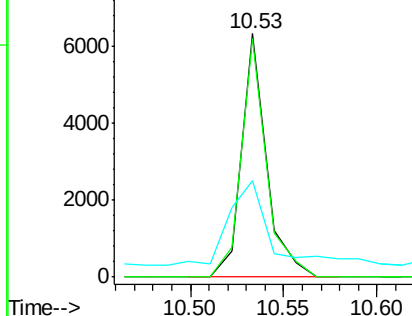


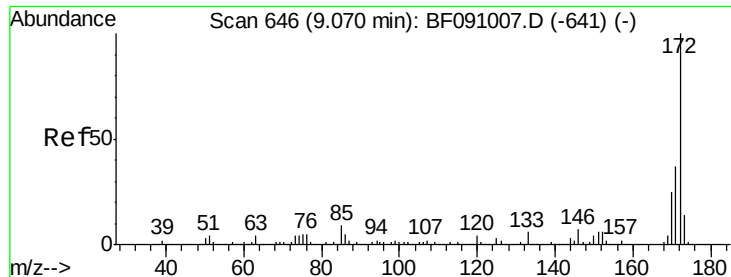
#41
 2,4,6-Tribromophenol
 Concen: 2.47 ng
 RT: 10.53 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5894		
332	99.5	75.9	113.9	
141	68.3	36.1	54.1#	



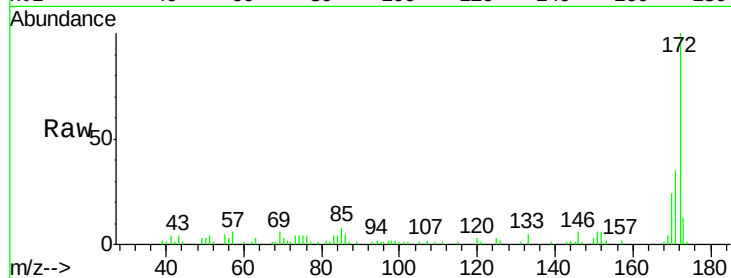
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





#44
2-Fluorobiphenyl
Concen: 2.96 ng
RT: 9.07 min Scan# 646
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

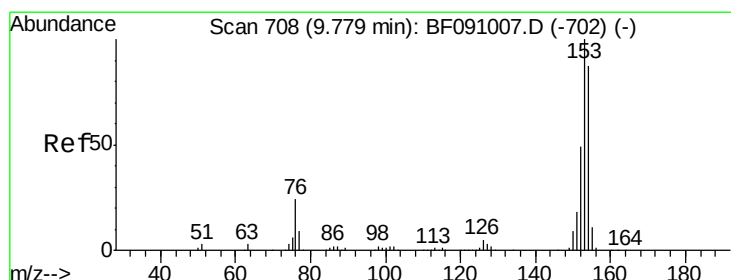
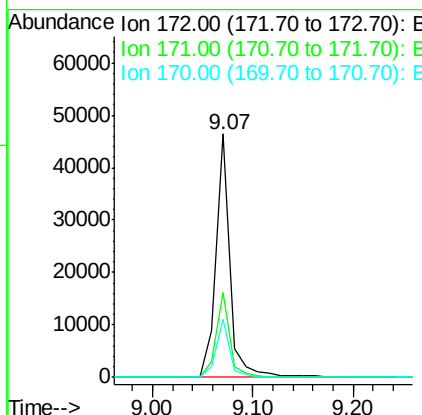
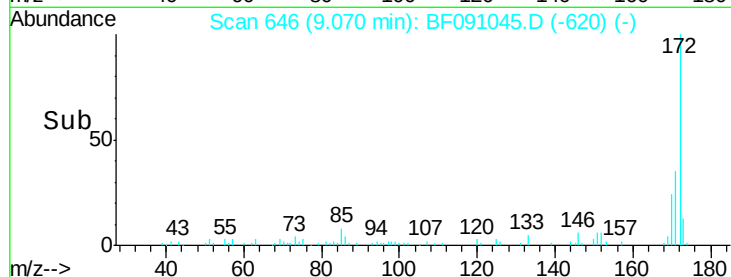
Instrument :
BNA_F
ClientSampled :
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Tgt Ion	Ratio	Resp	Lower	Upper
172	100	45277		
171	34.7	29.8	44.6	
170	23.9	20.3	30.5	

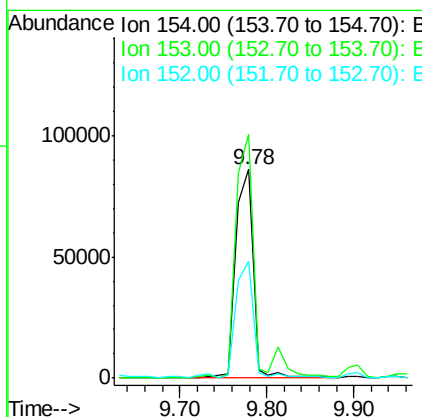
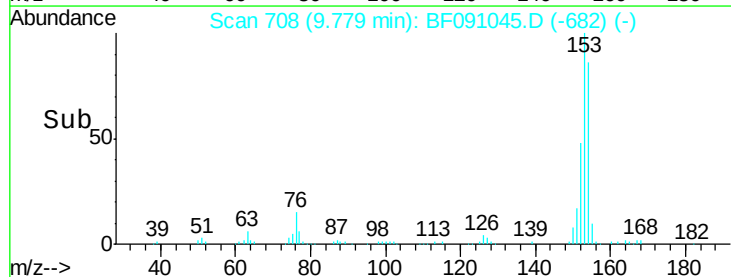
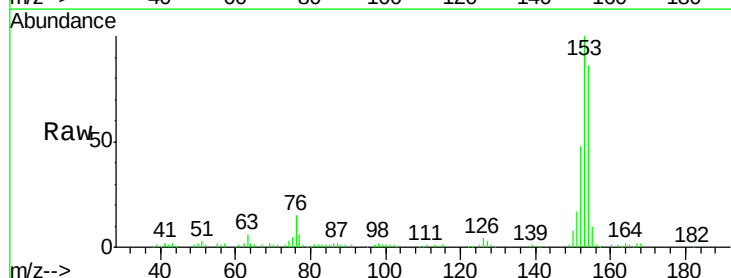
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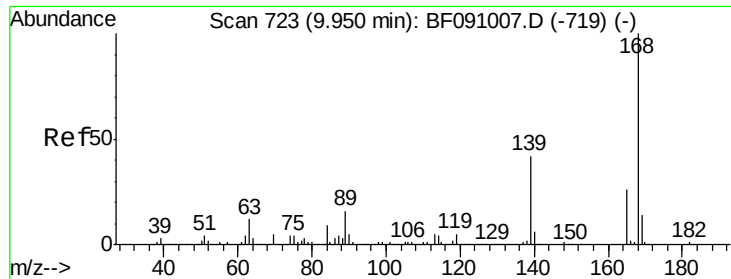
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#51
Acenaphthene
Concen: 8.26 ng
RT: 9.78 min Scan# 708
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	118046		
153	116.5	91.6	137.4	
152	55.7	44.6	67.0	





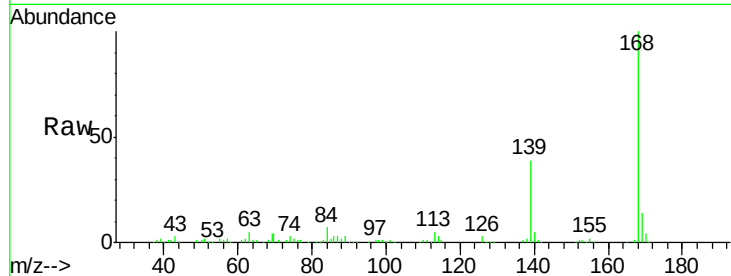
#54
Dibenzenofuran
Concen: 9.05 ng
RT: 9.95 min Scan# 723
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
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ClientSampled :
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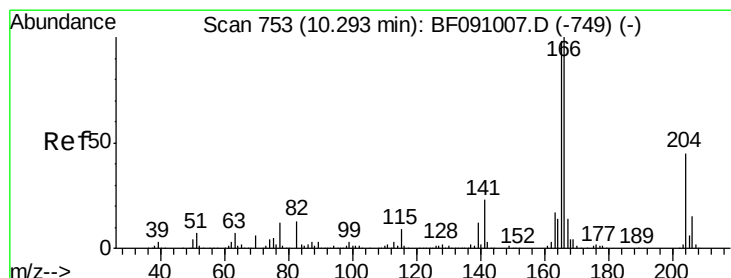
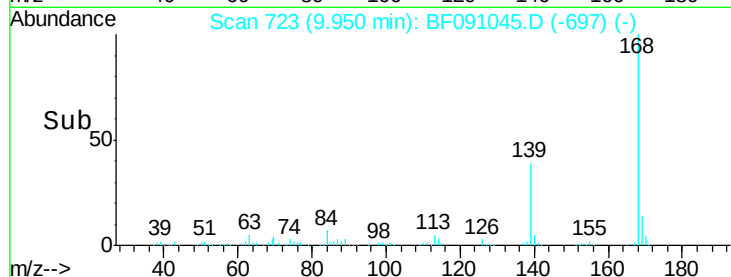
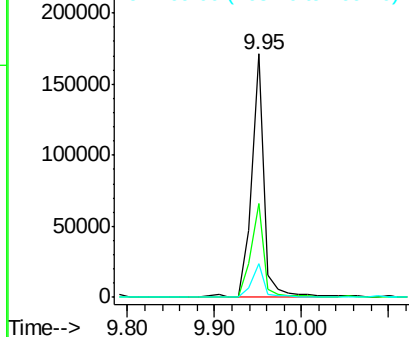
Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.8	34.8	52.2
169	13.8	11.4	17.2

Manual Integrations
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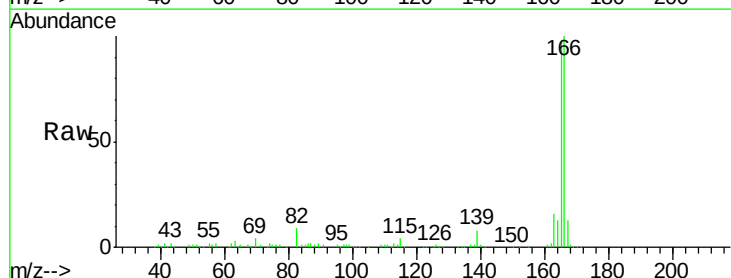


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

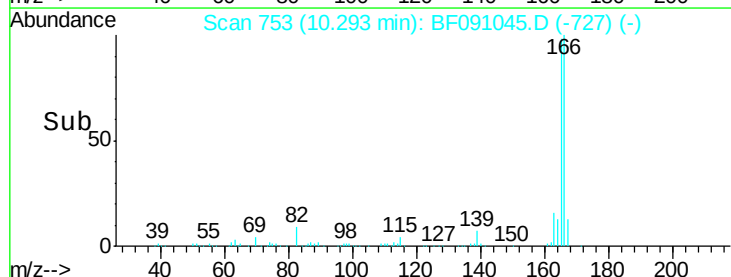
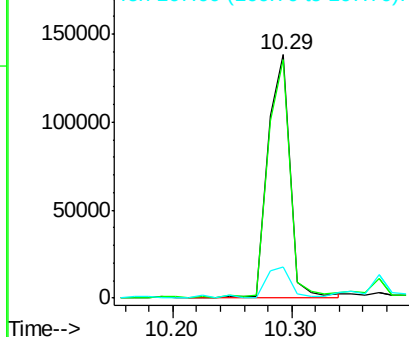


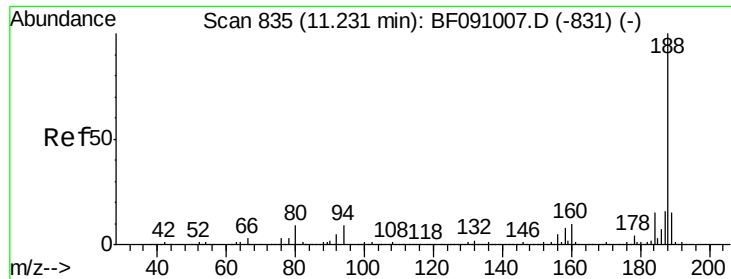
#57
Fluorene
Concen: 11.40 ng
RT: 10.29 min Scan# 753
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.6	118.0
167	13.0	11.1	16.7



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





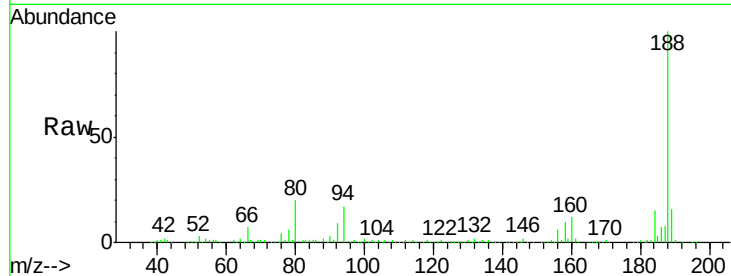
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampleId :
S-1

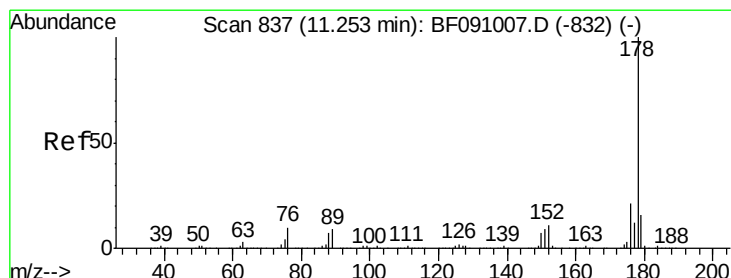
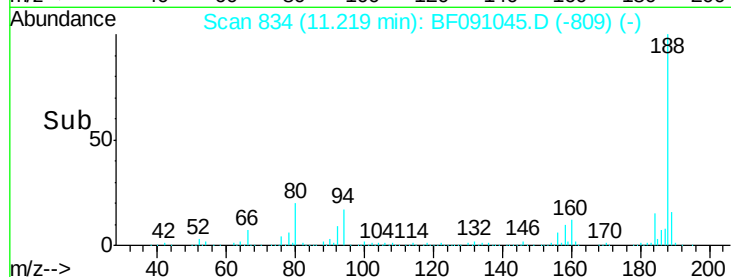
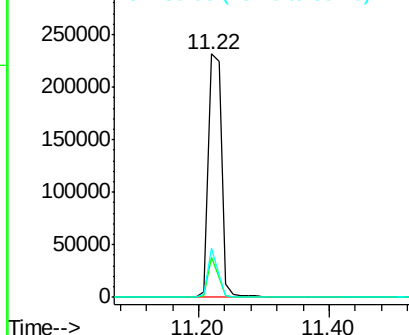
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	333386		
94	16.5	7.0	10.4	#
80	20.1	7.5	11.3	#

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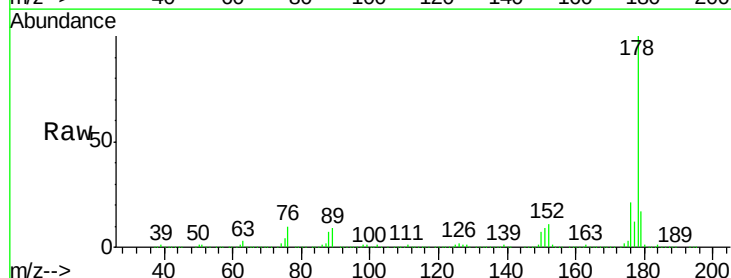


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

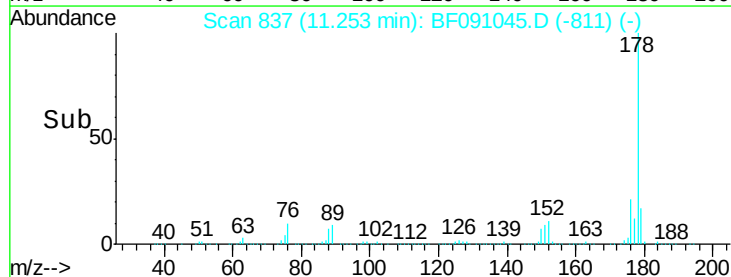
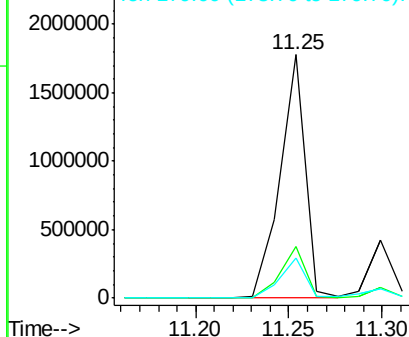


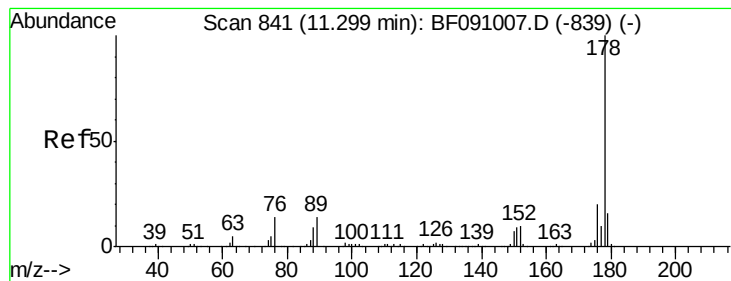
#70
Phenanthrene
Concen: 94.26 ng
RT: 11.25 min Scan# 837
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1670625		
176	21.4	16.6	25.0	
179	16.6	12.9	19.3	



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





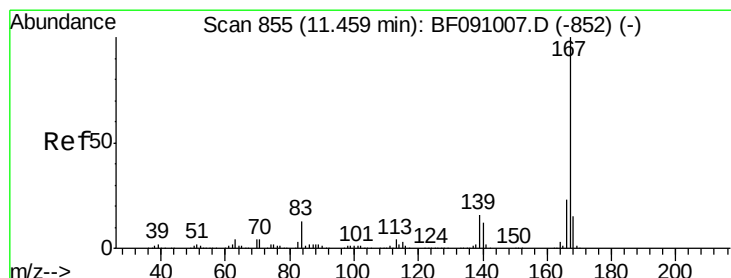
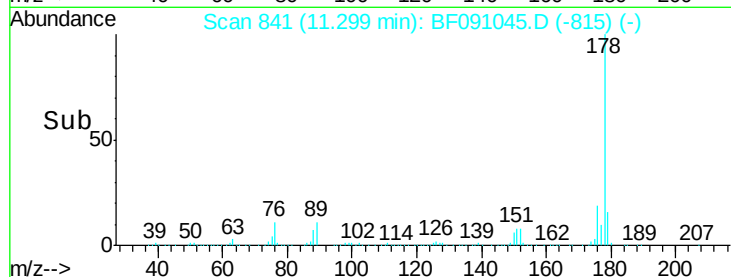
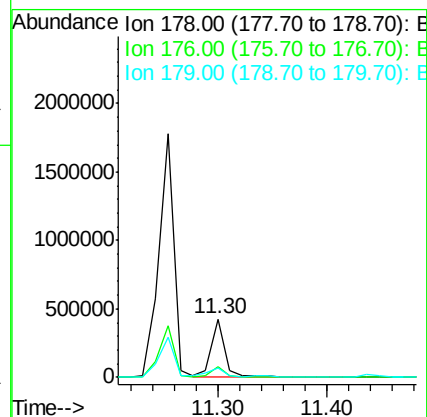
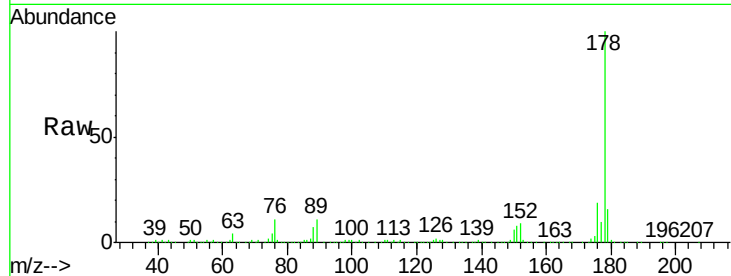
#71
 Anthracene
 Concen: 20.42 ng
 RT: 11.30 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Instrument :
 BNA_F
 ClientSampled :
 S-1

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.0	24.0
179	15.8	13.0	19.6

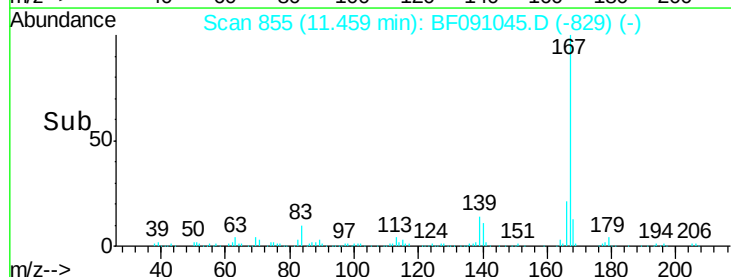
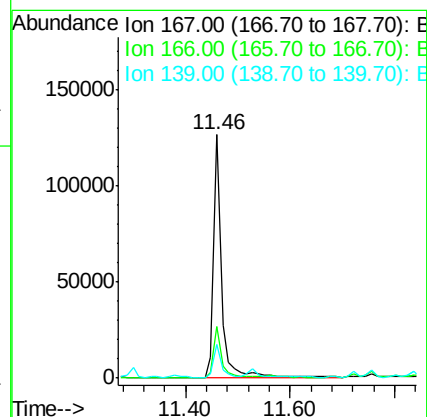
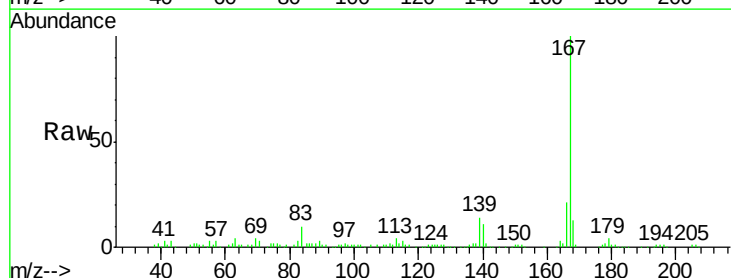
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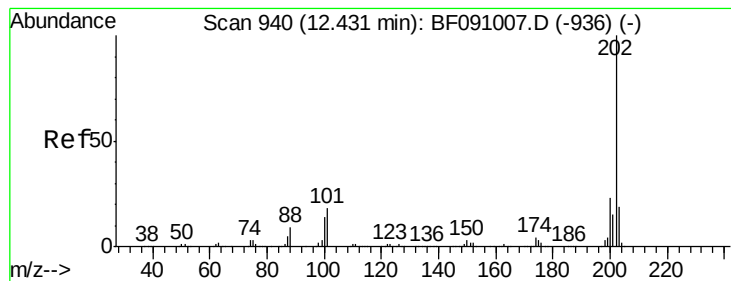
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#72
 Carbazole
 Concen: 8.09 ng
 RT: 11.46 min Scan# 855
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.9	18.0	27.0
139	14.0	12.6	18.8





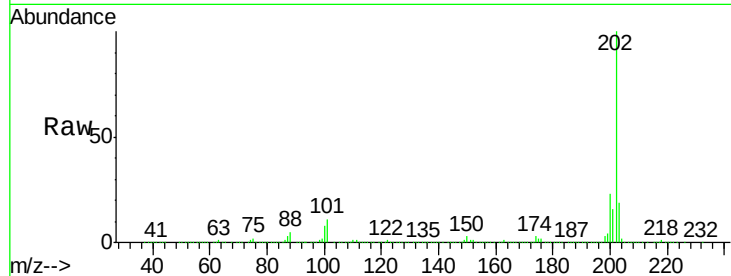
#74
Fluoranthene
Concen: 107.37 ng
RT: 12.44 min Scan# 941
Delta R.T. 0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

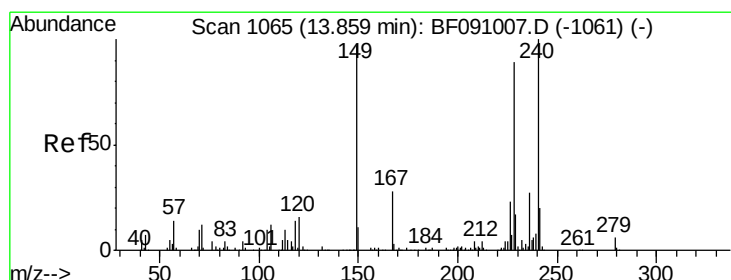
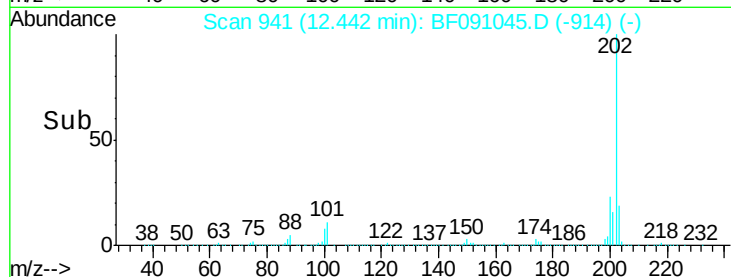
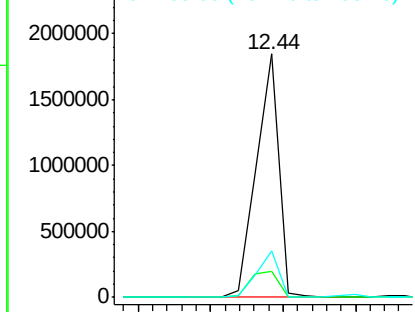
Tgt Ion: 202 Resp: 1973497
Ion Ratio Lower Upper
202 100
101 10.7 0.0 37.6
203 18.9 0.0 38.6

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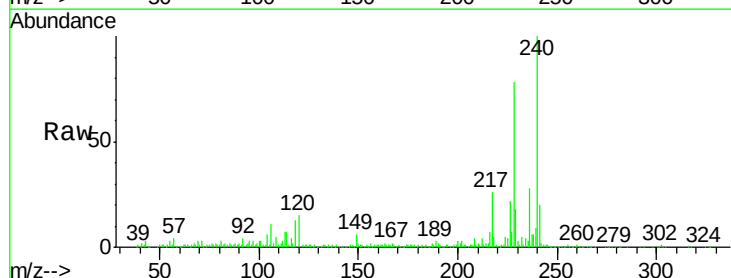


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

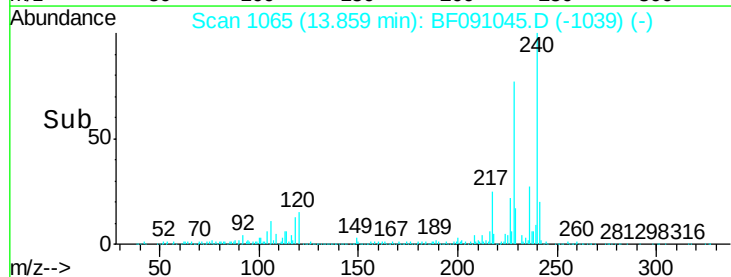
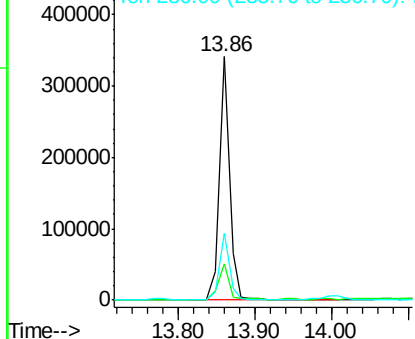


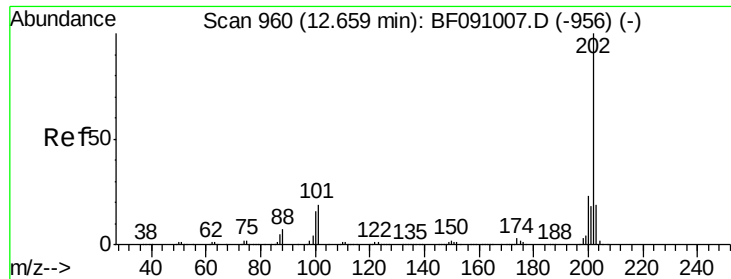
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.86 min Scan# 1065
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion: 240 Resp: 315781
Ion Ratio Lower Upper
240 100
120 14.9 12.9 19.3
236 27.6 21.9 32.9



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





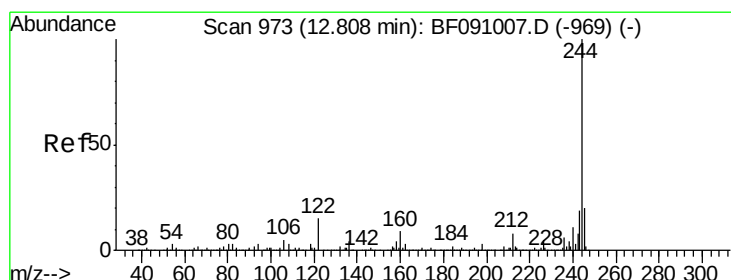
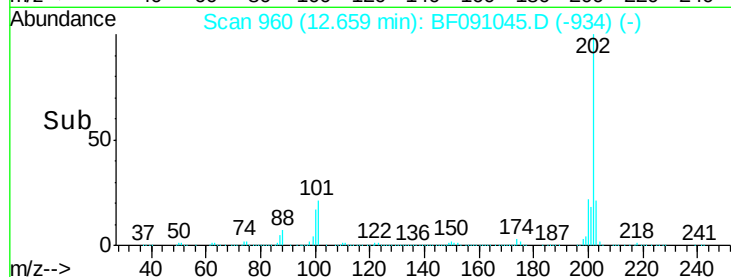
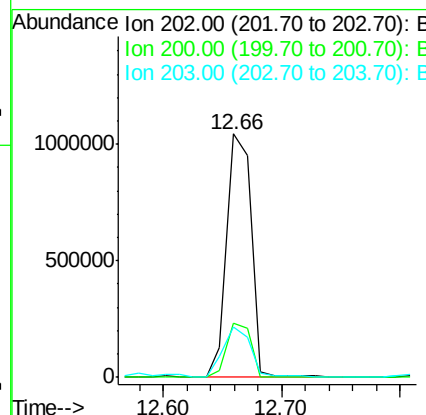
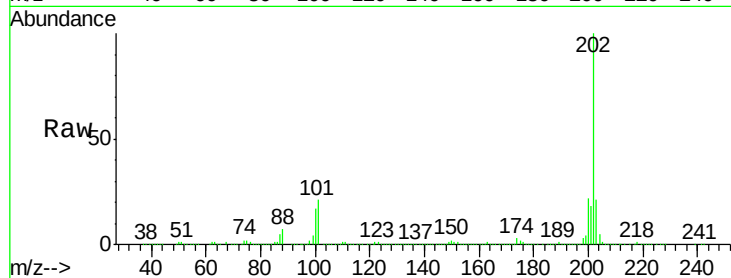
#77
 Pyrene
 Concen: 71.45 ng
 RT: 12.66 min Scan# 960
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Instrument :
 BNA_F
 ClientSampled :
 S-1

Tgt Ion: 202 Resp: 1477554
 Ion Ratio Lower Upper
 202 100
 200 22.2 18.4 27.6
 203 20.9 15.0 22.6

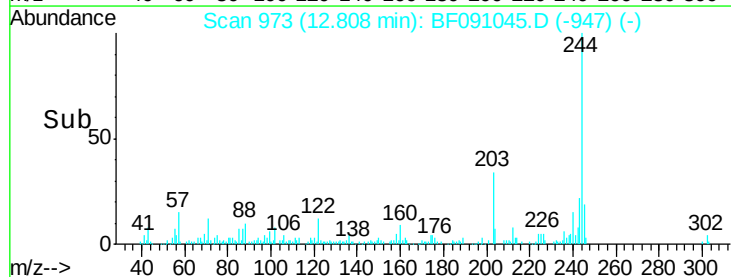
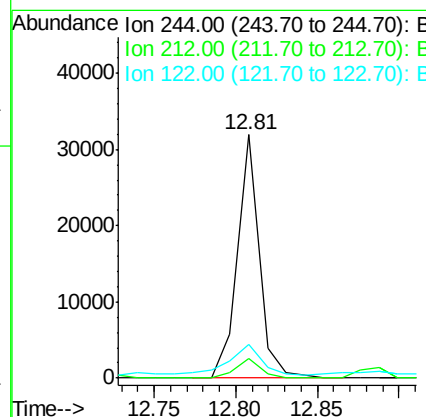
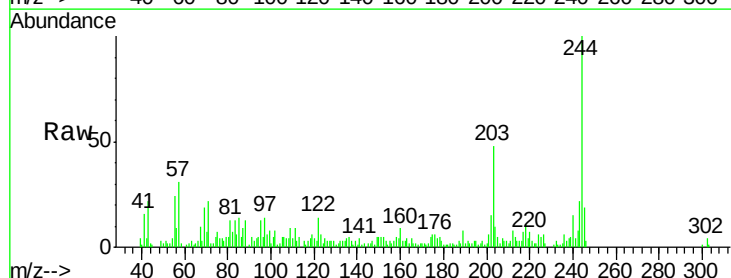
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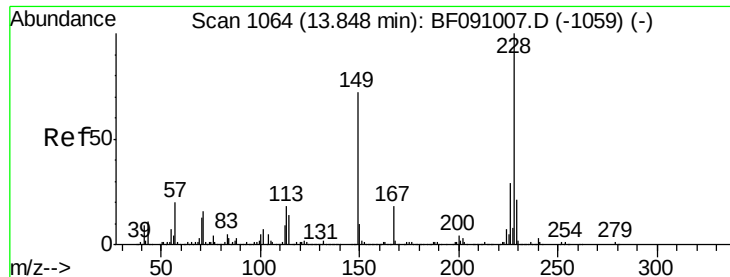
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#78
 Terphenyl-d14
 Concen: 2.32 ng
 RT: 12.81 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: BF091045.D
 Acq: 5 Nov 2016 2:36

Tgt Ion: 244 Resp: 29327
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.4 9.6
 122 13.6 12.3 18.5





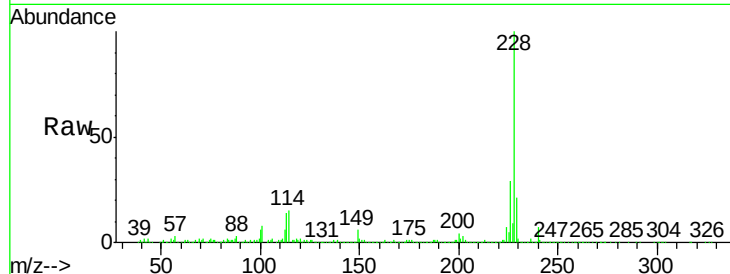
#80
Benzo(a)anthracene
Concen: 43.41 ng
RT: 13.85 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.0	34.6
229	21.3	16.6	24.8

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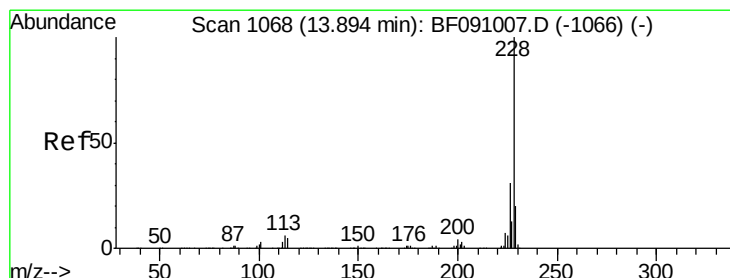
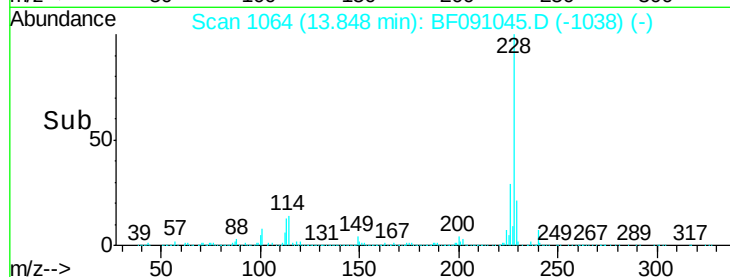
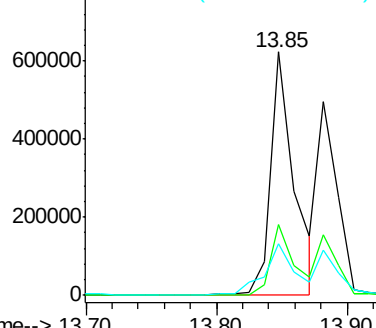


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82
Chrysene
Concen: 29.73 ng
RT: 13.88 min Scan# 1067
Delta R.T. -0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

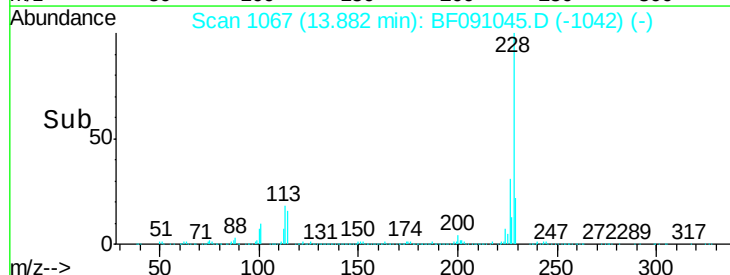
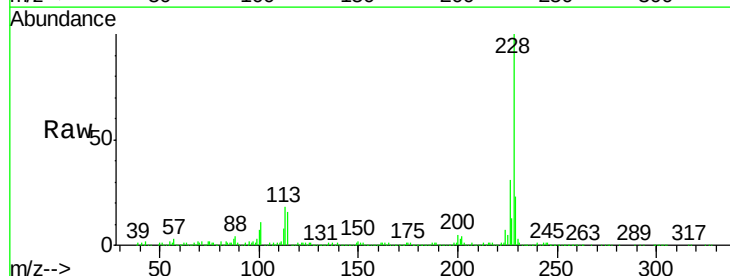
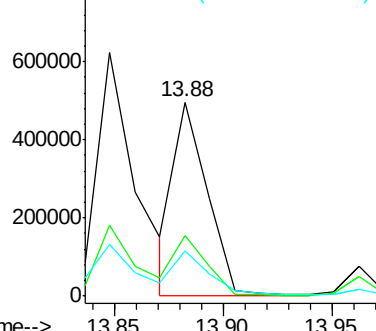
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	23.3	15.9	23.9

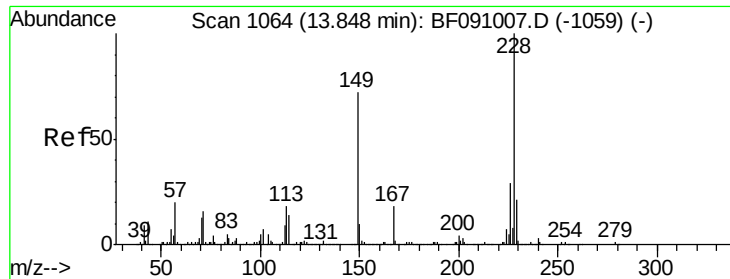
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





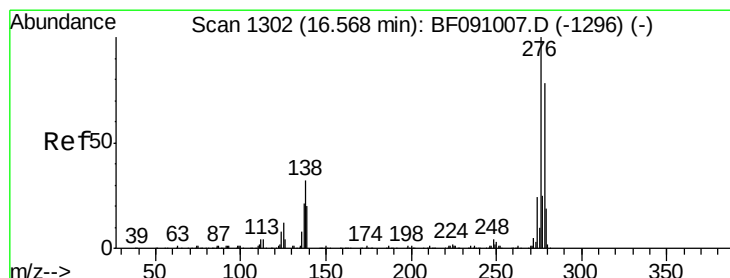
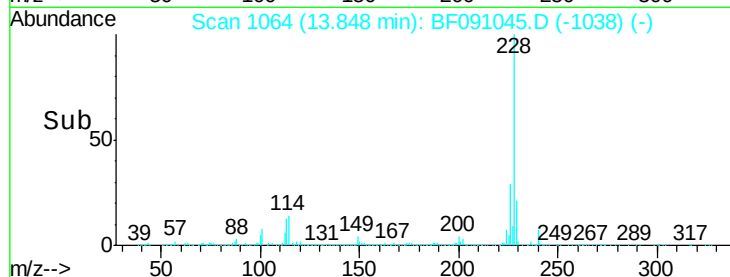
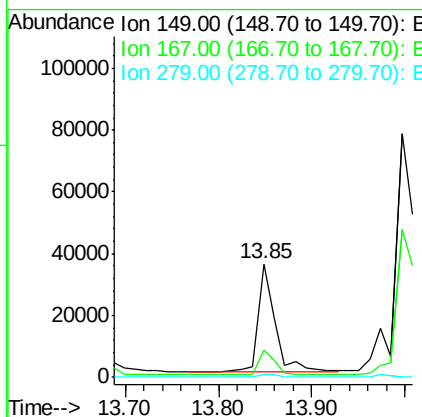
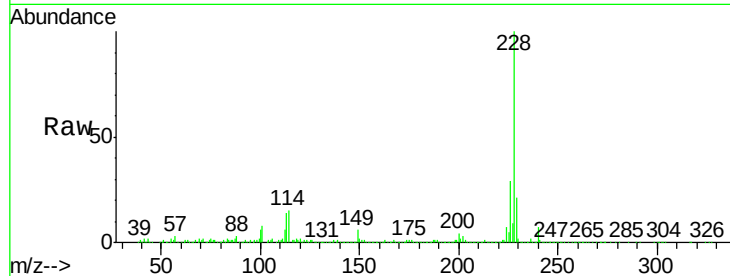
#83
Bis(2-ethylhexyl)phthalate
Concen: 3.22 ng
RT: 13.85 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	43124		
167	23.6	20.4	30.6	
279	2.3	1.6	2.4	

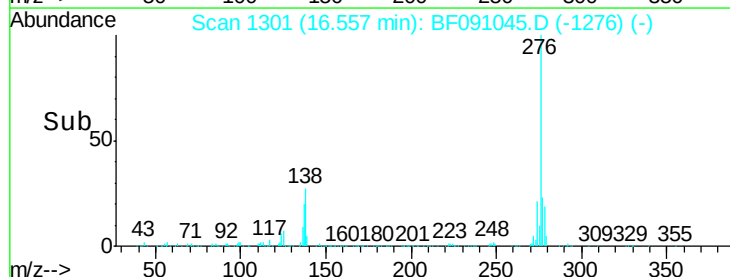
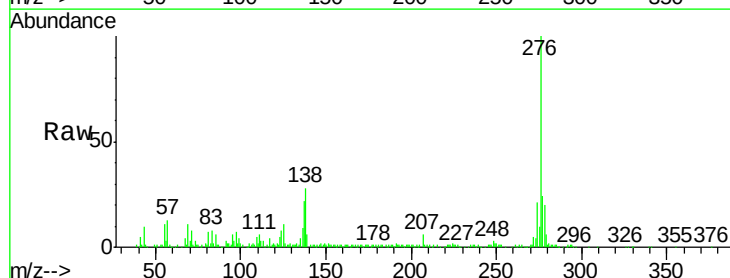
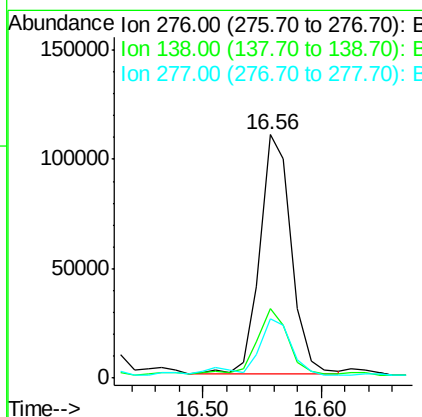
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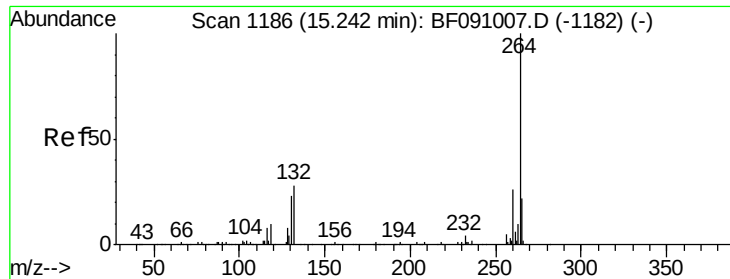
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.75 ng
RT: 16.56 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	201639		
138	29.2	26.0	39.0	
277	26.8	20.1	30.1	





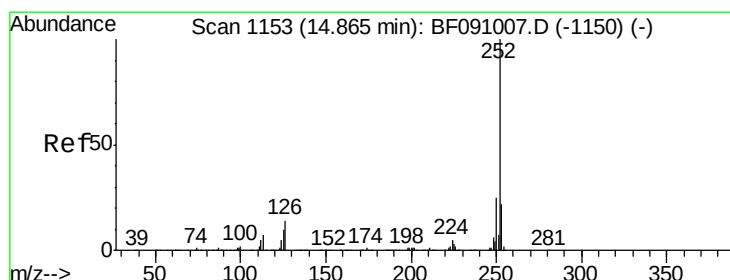
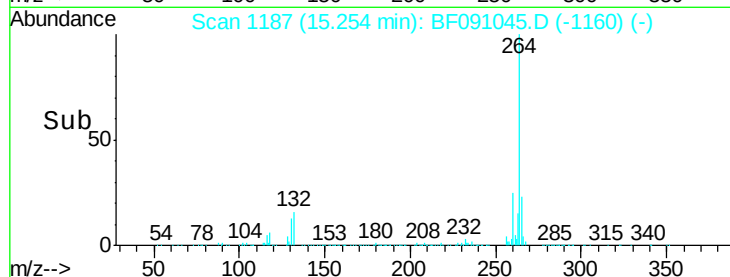
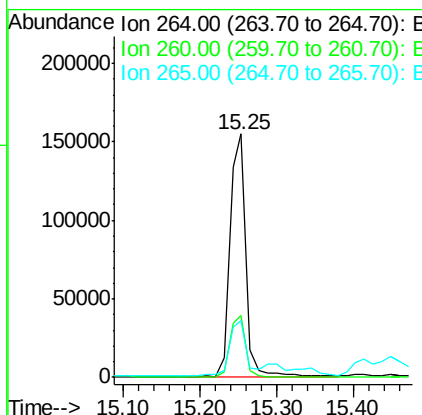
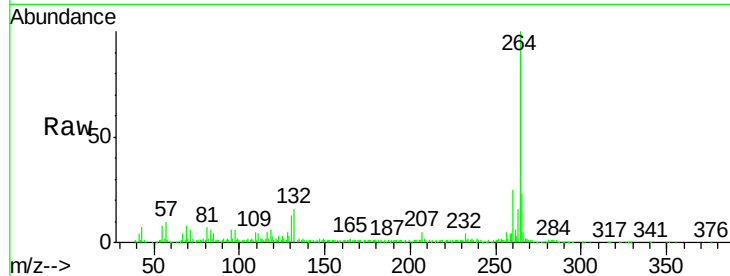
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.25 min Scan# 1187
Delta R.T. 0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	229316		
260	25.5	20.6	30.8	
265	23.1	17.8	26.8	

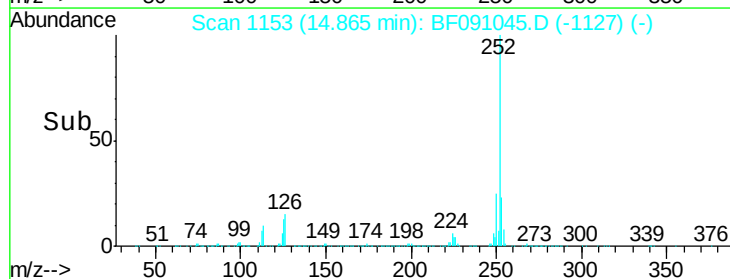
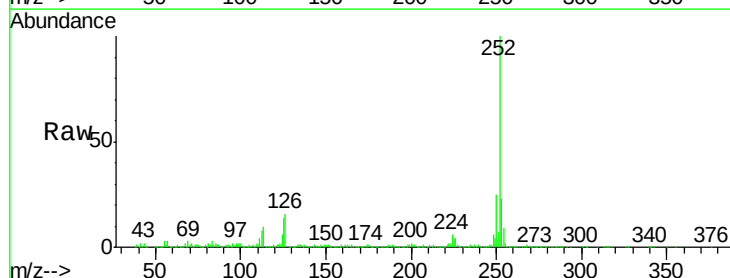
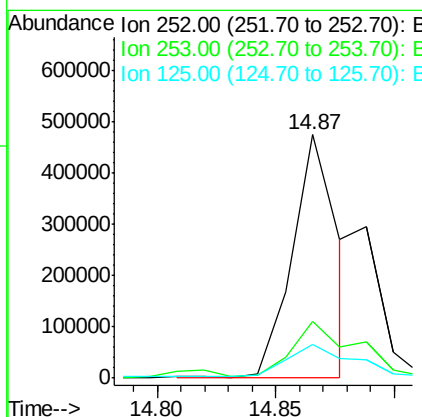
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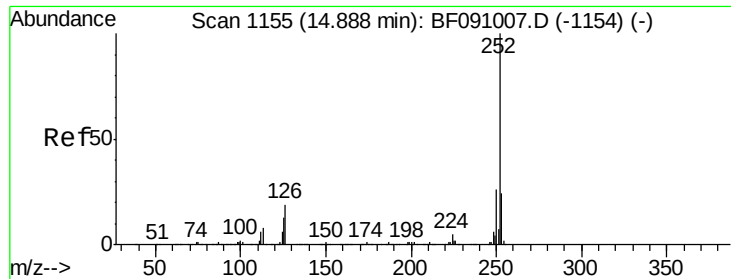
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#87
Benzo(b)fluoranthene
Concen: 40.81 ng m
RT: 14.87 min Scan# 1153
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	634779		
253	23.1	18.0	27.0	
125	14.1	8.3	12.5#	





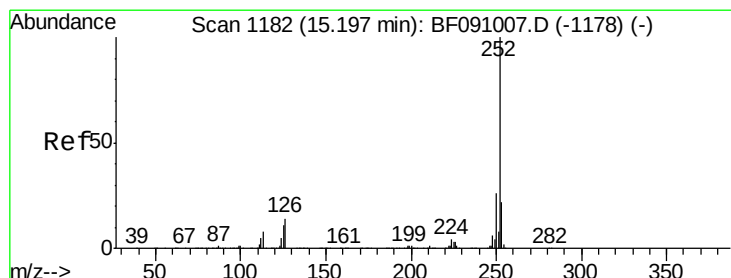
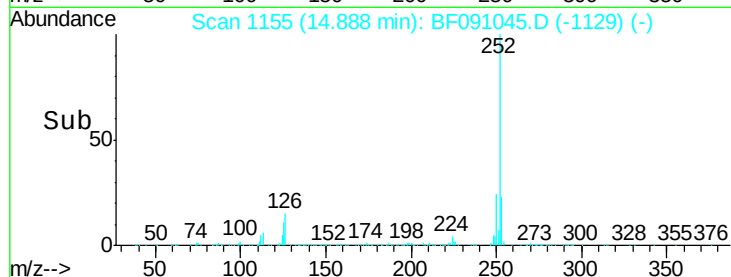
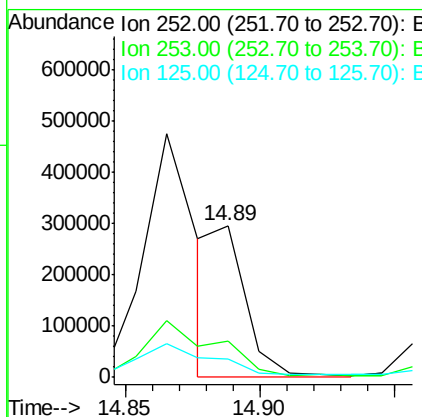
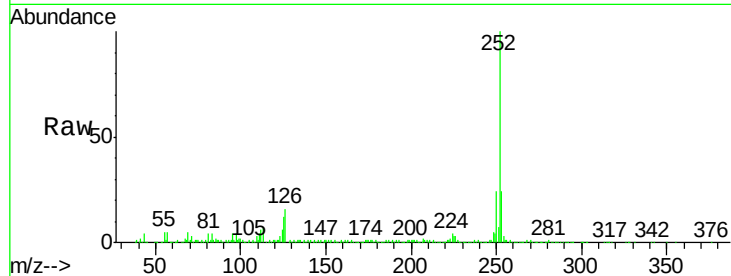
#88
Benzo(k)fluoranthene
Concen: 18.41 ng m
RT: 14.89 min Scan# 1155
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.6	28.0
125	12.0	11.2	16.8

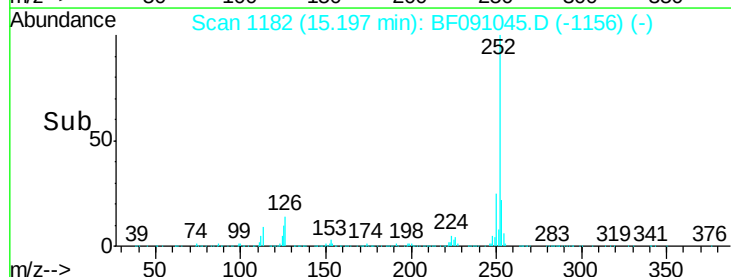
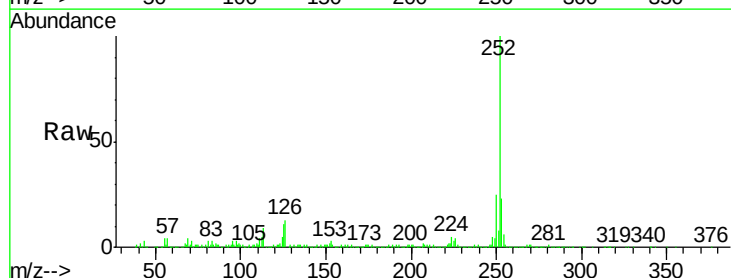
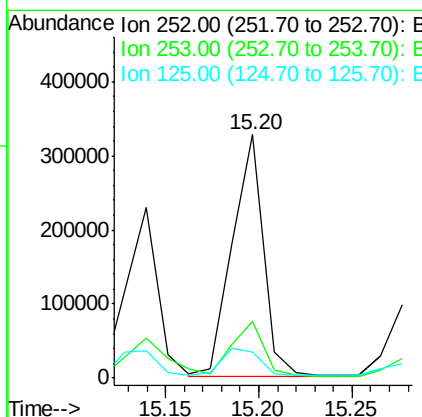
Manual Integrations
APPROVED

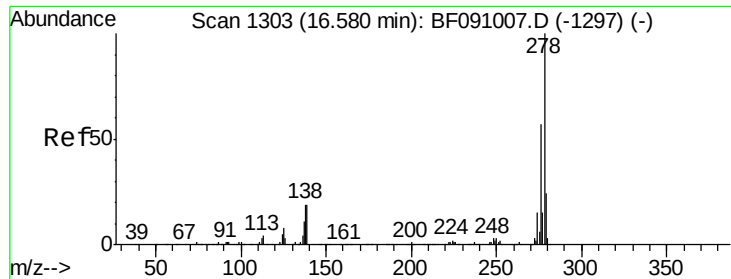
sohil
11/7/2016 4:41:49 PM



#89
Benzo(a)pyrene
Concen: 28.50 ng
RT: 15.20 min Scan# 1182
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	10.8	8.6	13.0





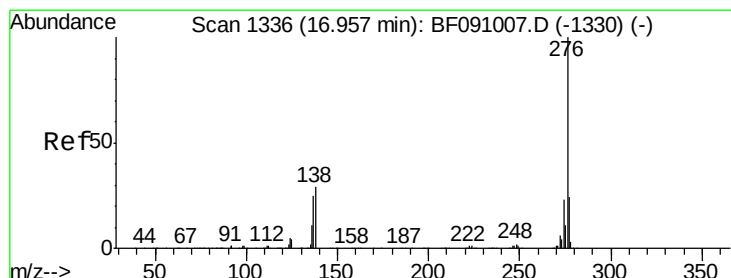
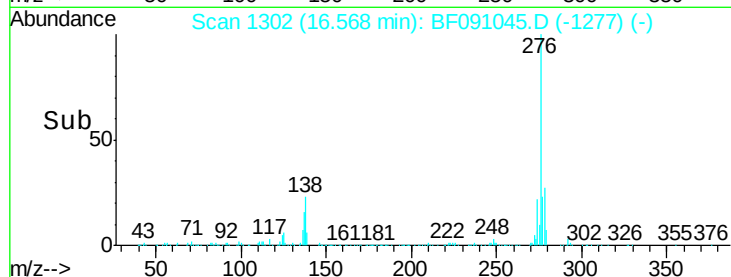
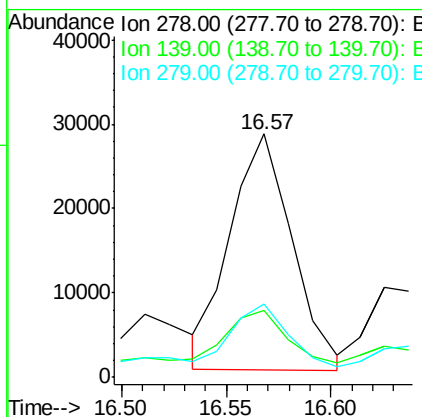
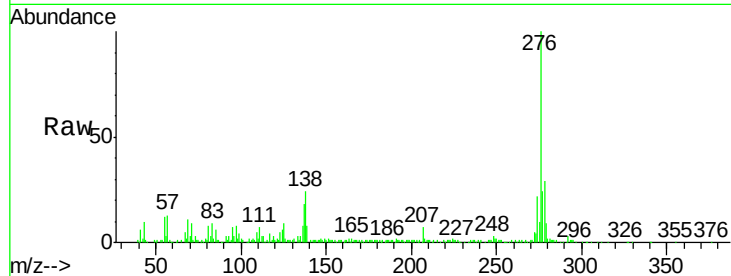
#90
Dibenzo(a,h)anthracene
Concen: 4.92 ng m
RT: 16.57 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Instrument :
BNA_F
ClientSampled :
S-1

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.3	15.3	22.9#
279	30.0	19.3	28.9#

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 16.27 ng
RT: 16.96 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BF091045.D
Acq: 5 Nov 2016 2:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	25.8	23.3	34.9

