

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
 Data File : BF090946.D
 Acq On : 31 Oct 2016 23:27
 Operator : UM/SJ
 Sample : H5411-05
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0RE

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Quant Time: Nov 01 14:23:38 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	143042	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	447291	20.00	ng	-0.01
38) Acenaphthene-d10	9.79	164	276812	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	350700	20.00	ng	0.00
75) Chrysene-d12	13.91	240	359996	20.00	ng	0.00
86) Perylene-d12	15.31	264	286501	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	847060	103.54	ng	0.01
7) Phenol-d6	6.40	99	1281978	116.15	ng	0.00
23) Nitrobenzene-d5	7.31	82	649843	95.11	ng	-0.01
41) 2,4,6-Tribromophenol	10.58	330	290768	102.21	ng	0.00
44) 2-Fluorobiphenyl	9.12	172	941170	59.70	ng	0.00
78) Terphenyl-d14	12.85	244	698038	48.85	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.05	128	163015	7.80	ng	99
37) 2-Methylnaphthalene	8.75	142	50338	3.73	ng	96
48) Acenaphthylene	9.64	152	56726	2.47	ng	# 94
49) Dimethylphthalate	9.50	163	394742	21.34	ng	# 97
51) Acenaphthene	9.81	154	137339	8.68	ng	90
54) Dibenzofuran	9.98	168	111920	5.48	ng	# 79
57) Fluorene	10.33	166	123442	7.38	ng	92
70) Phenanthrene	11.30	178	1279532	71.65	ng	96
71) Anthracene	11.34	178	262770	13.97	ng	98
72) Carbazole	11.50	167	70973	4.27	ng	94
74) Fluoranthene	12.49	202	1412067	72.20	ng	84
77) Pyrene	12.72	202	1367906	60.04	ng	96
80) Benzo(a)anthracene	13.89	228	830031	43.44	ng	# 91
82) Chrysene	13.93	228	629350m	32.57	ng	
85) Indeno(1,2,3-cd)pyrene	16.65	276	275561	16.09	ng	# 79
87) Benzo(b)fluoranthene	14.92	252	776066m	40.28	ng	
88) Benzo(k)fluoranthene	14.93	252	163215m	10.72	ng	
89) Benzo(a)pyrene	15.25	252	527486	31.87	ng	# 83
90) Dibenzo(a,h)anthracene	16.66	278	83499	5.96	ng	# 76
91) Benzo(g,h,i)perylene	17.05	276	263117	19.94	ng	# 74

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

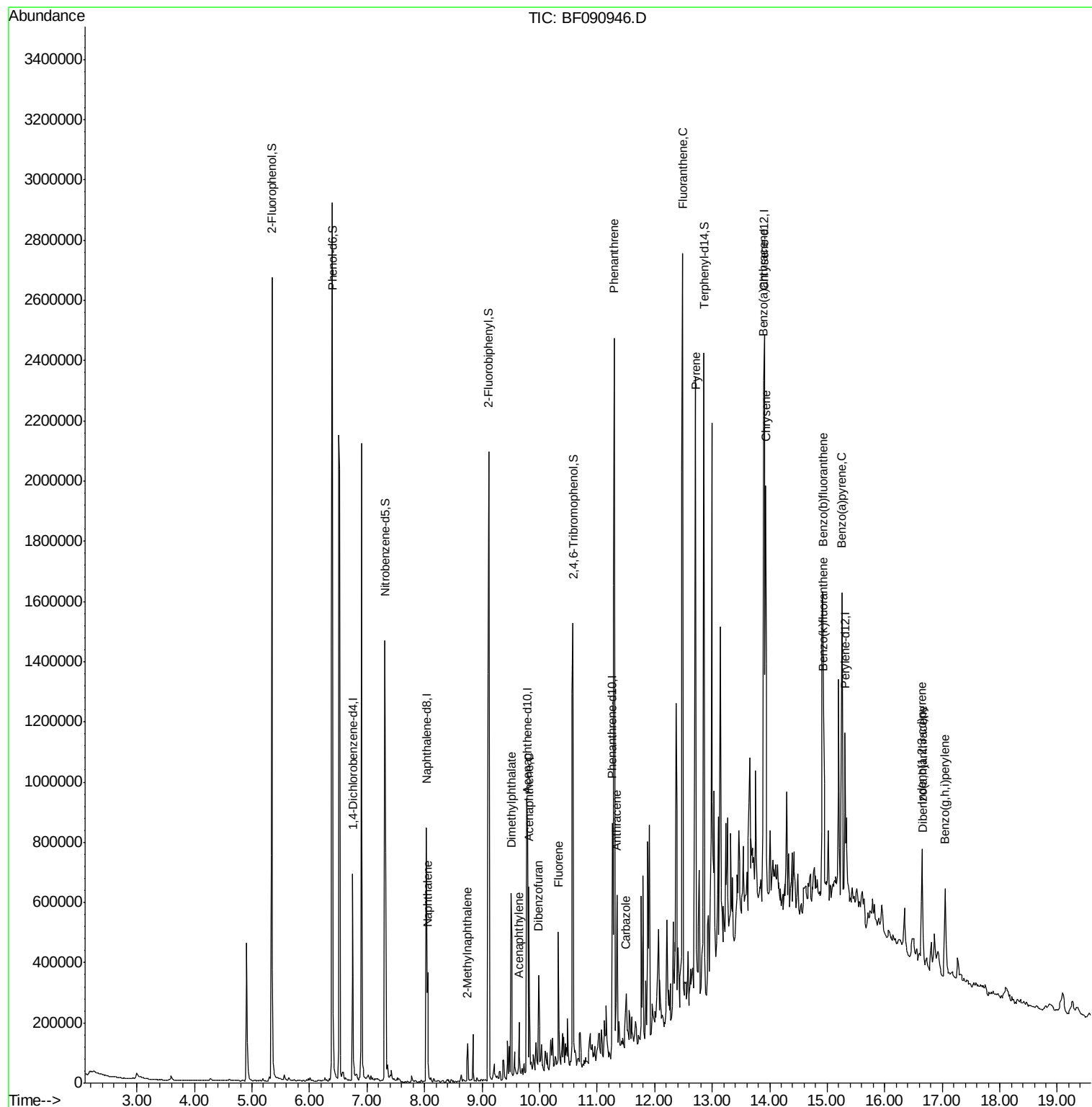
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
Data File : BF090946.D
Acq On : 31 Oct 2016 23:27
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Sample : H5411-05
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ALS Vial : 26 Sample Multiplier: 1

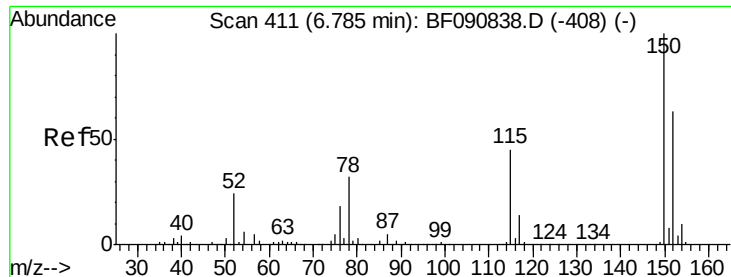
Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

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Quant Time: Nov 01 14:23:38 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 01 11:53:50 2016
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#1

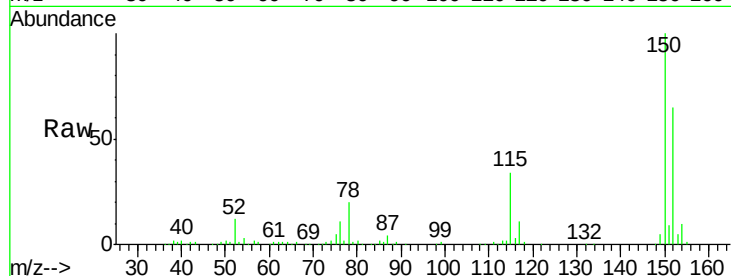
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.75 min Scan# 408
Delta R.T. -0.00 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

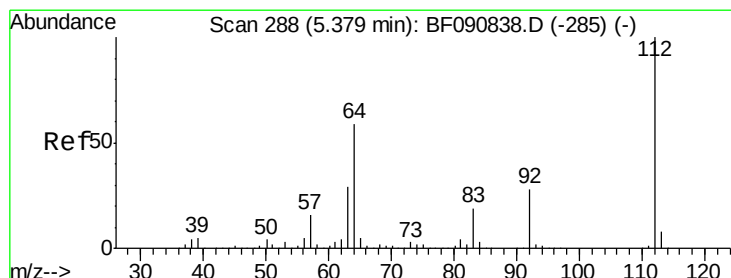
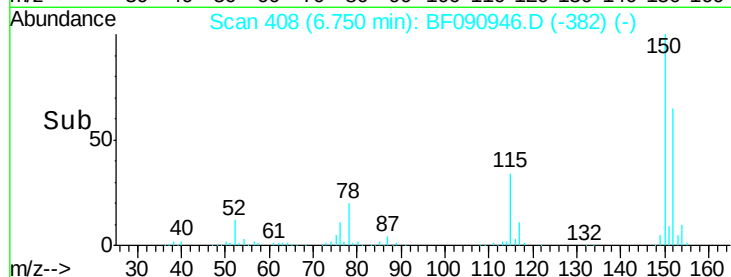
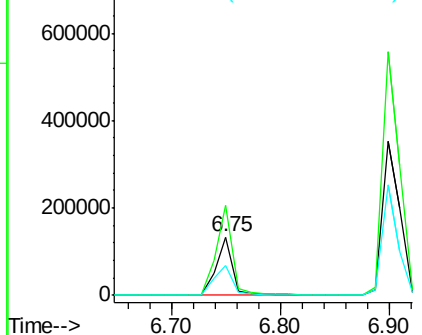
Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.7	187.1
115	51.8	39.0	58.4

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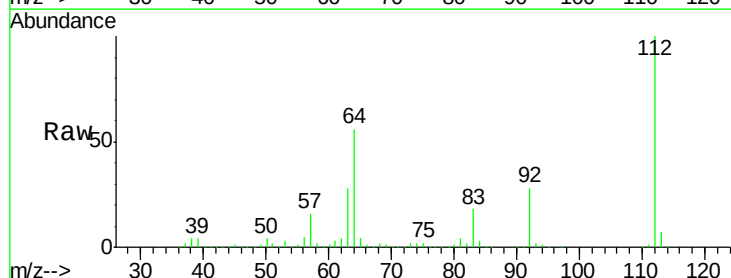
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



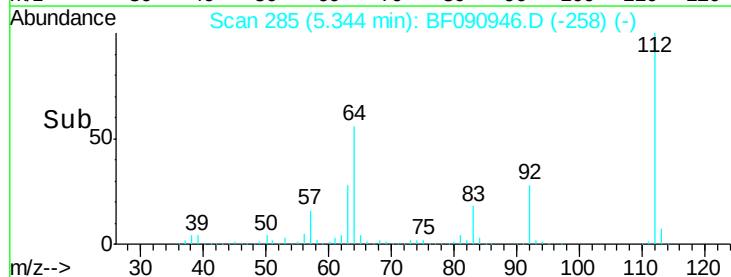
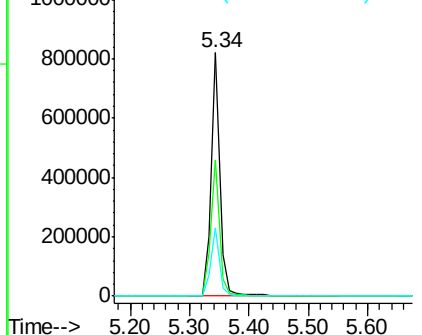
#5

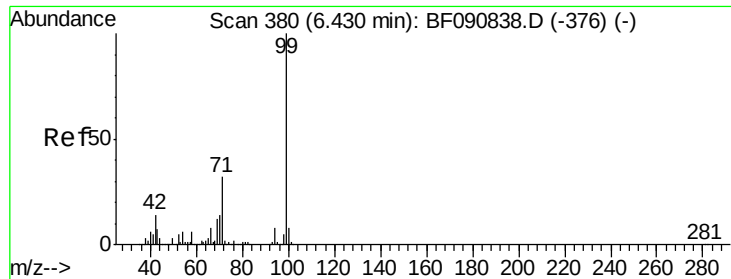
2-Fluorophenol
Concen: 103.54 ng
RT: 5.34 min Scan# 285
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	39.7	59.5
63	28.1	17.4	26.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 116.15 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion: 99 Resp: 1281978

Ion Ratio Lower Upper

99 100

42 14.1 13.7 20.5

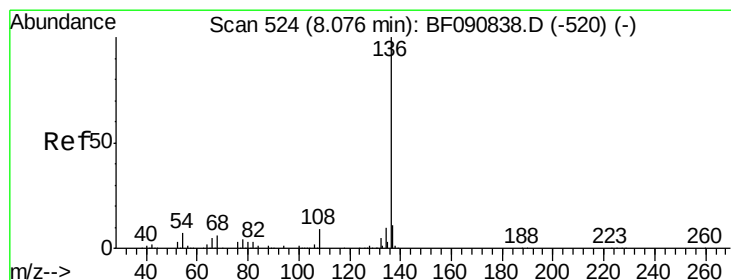
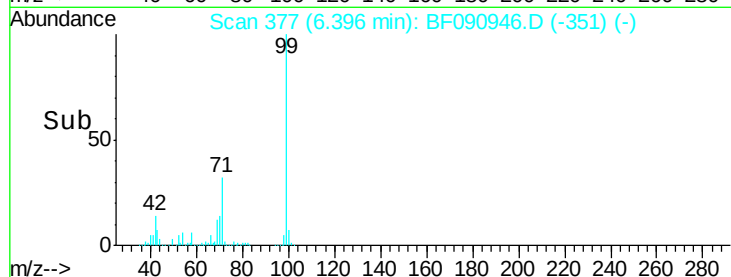
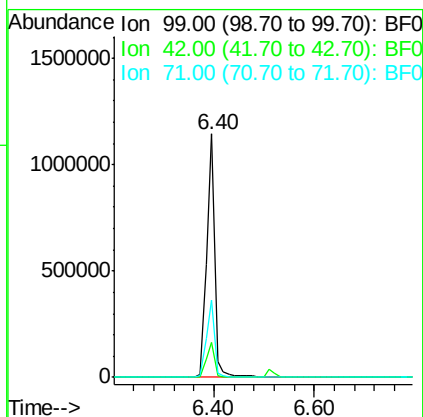
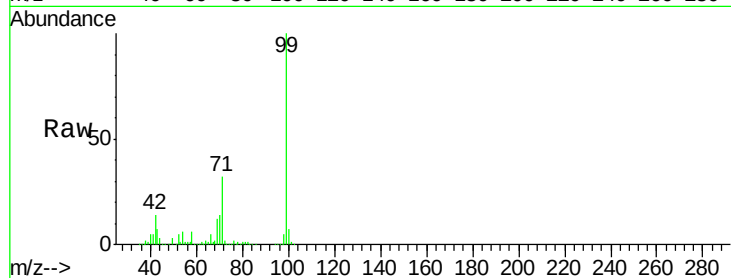
71 31.9 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion: 136 Resp: 447291

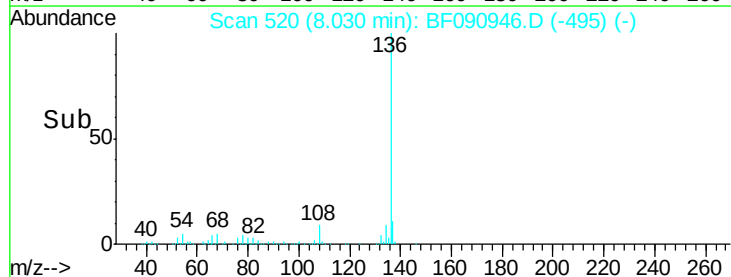
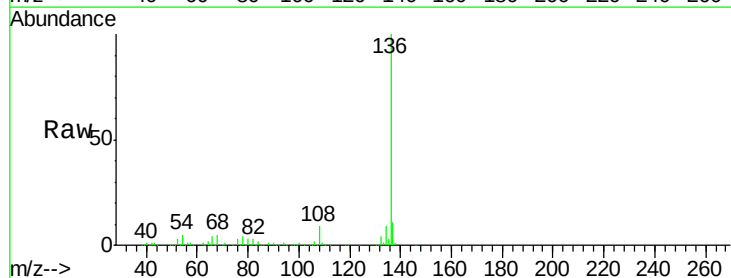
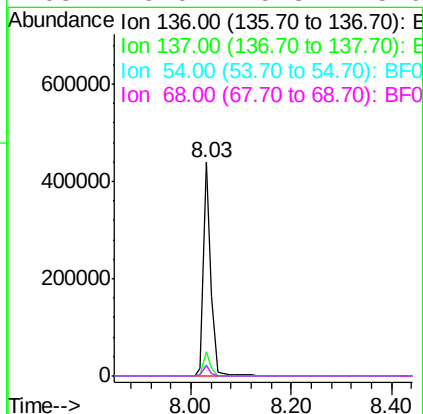
Ion Ratio Lower Upper

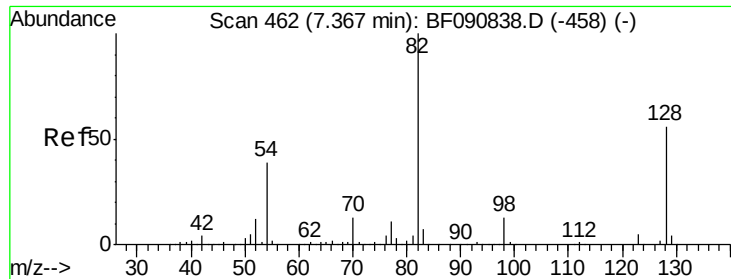
136 100

137 11.2 9.0 13.6

54 5.4 8.2 12.2#

68 5.0 5.8 8.6#





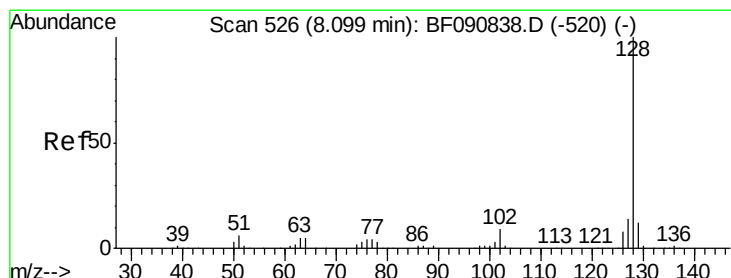
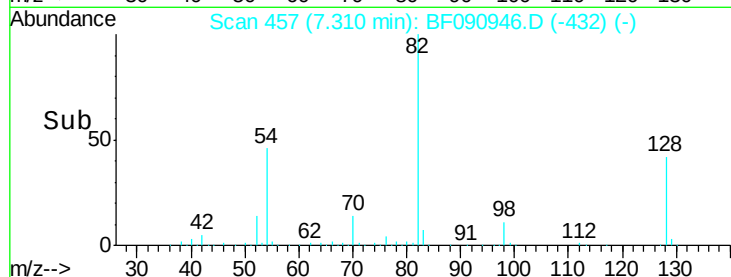
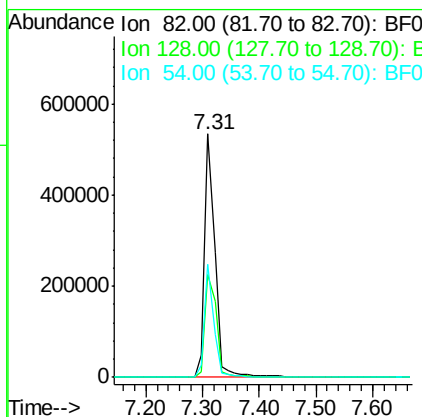
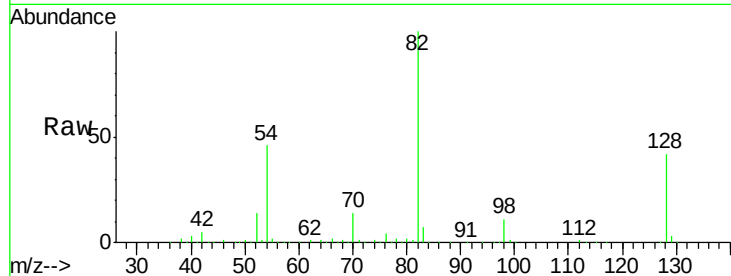
#23
 Nitrobenzene-d5
 Concen: 95.11 ng
 RT: 7.31 min Scan# 457
 Delta R.T. -0.01 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Instrument :
 BNA_F
 ClientSampled :
 SB-02-8.5-9.0RE

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.0	51.0	76.6#
54	46.4	47.5	71.3#

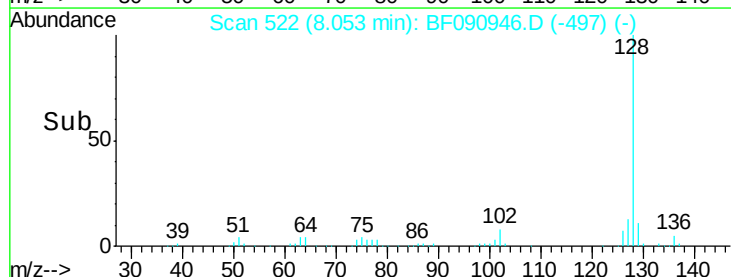
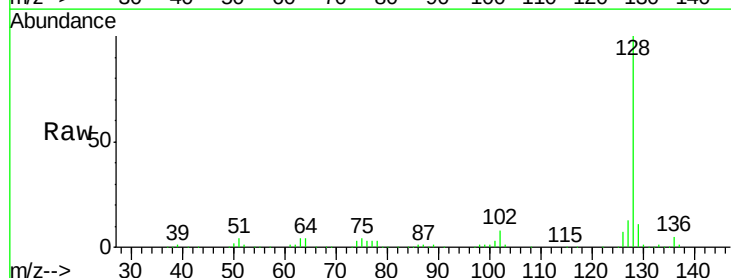
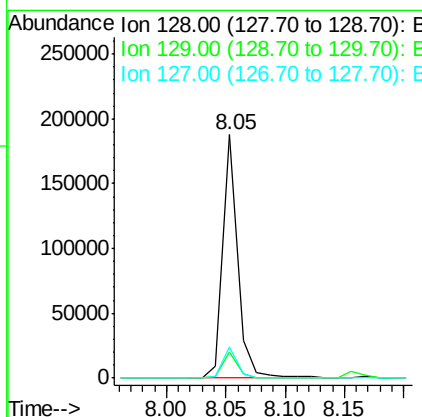
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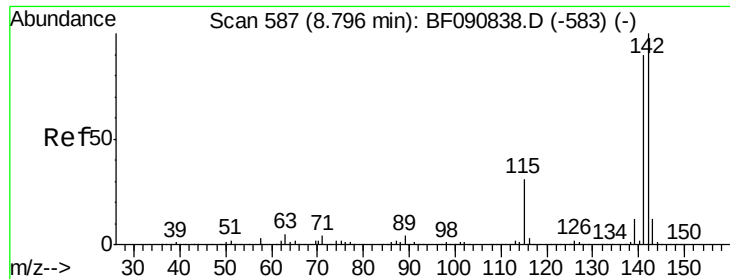
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#31
 Naphthalene
 Concen: 7.80 ng
 RT: 8.05 min Scan# 522
 Delta R.T. -0.01 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	12.8	9.9	14.9





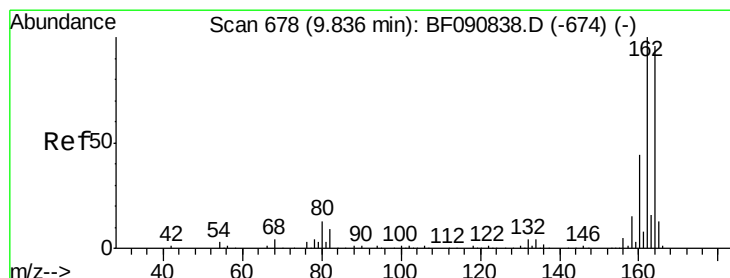
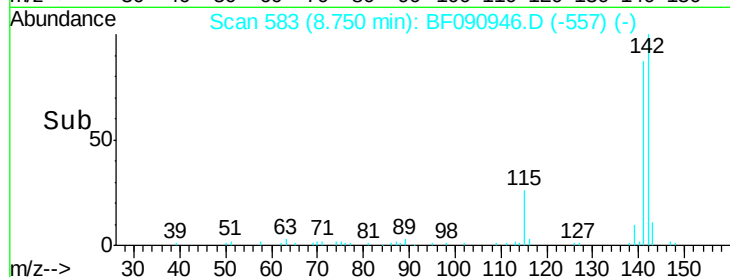
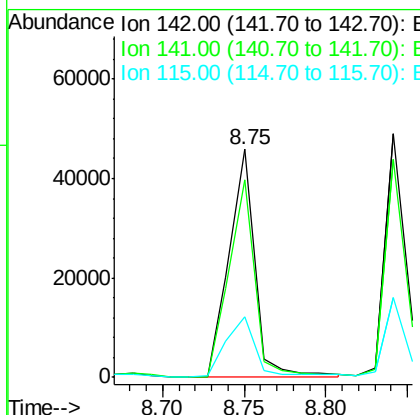
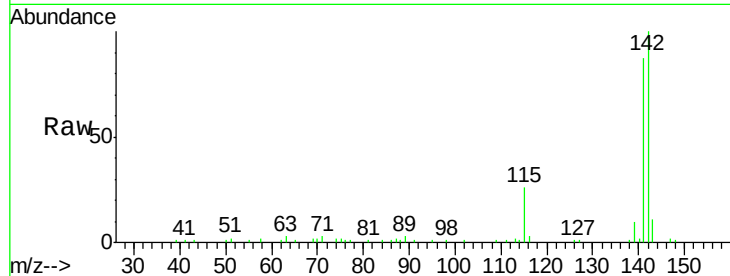
#37
 2-Methylnaphthalene
 Concen: 3.73 ng
 RT: 8.75 min Scan# 583
 Delta R.T. -0.00 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0RE

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.7	67.5	101.3
115	26.5	18.2	27.2

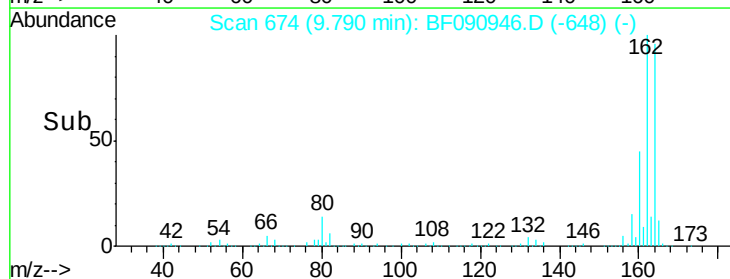
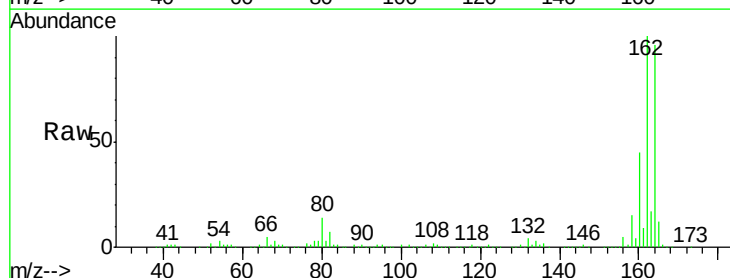
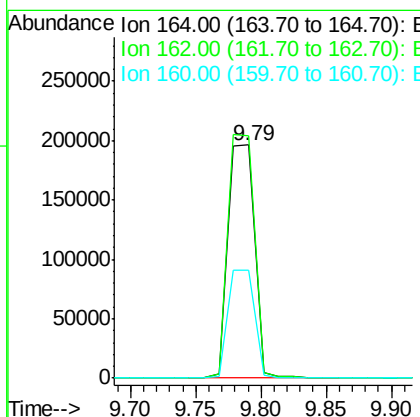
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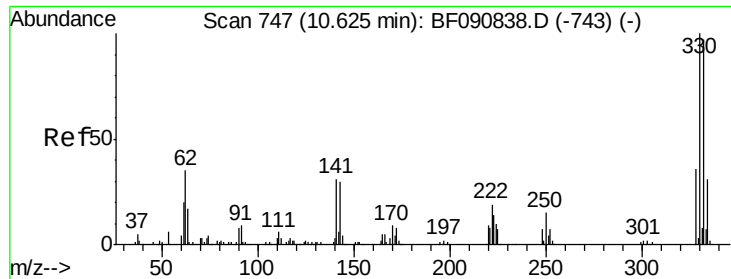
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.79 min Scan# 674
 Delta R.T. -0.00 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	75.2	112.8
160	46.4	31.5	47.3





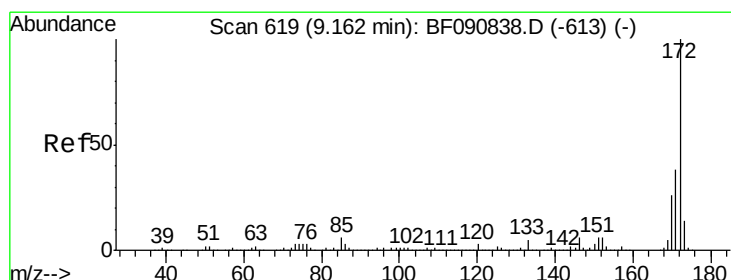
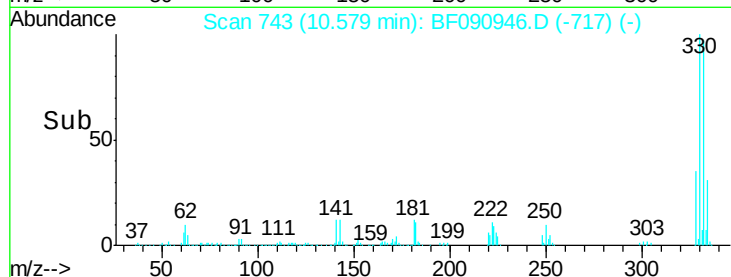
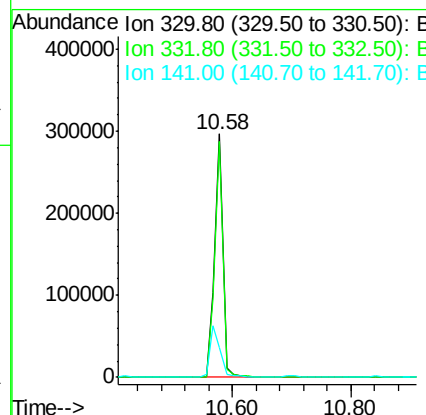
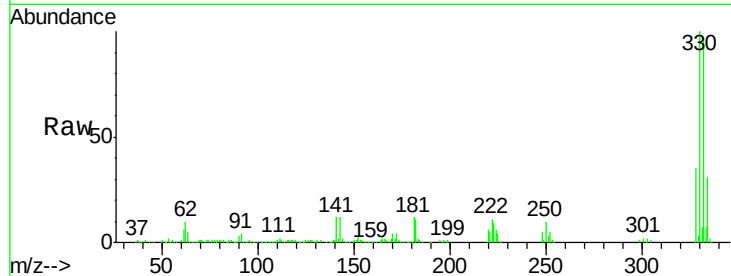
#41
 2,4,6-Tribromophenol
 Concen: 102.21 ng
 RT: 10.58 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0RE

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	290768		
332	95.7	76.6	114.8	
141	25.7	29.7	44.5#	

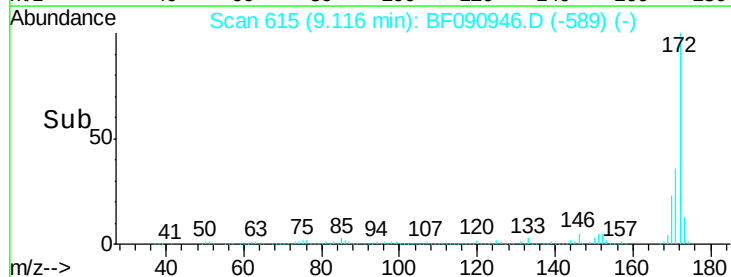
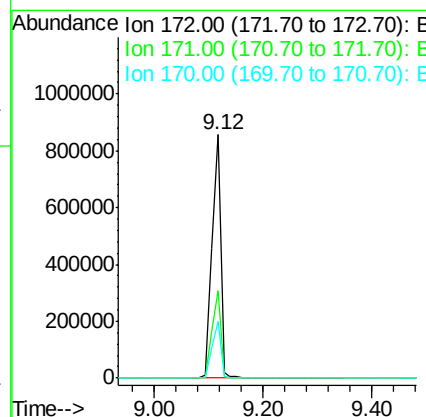
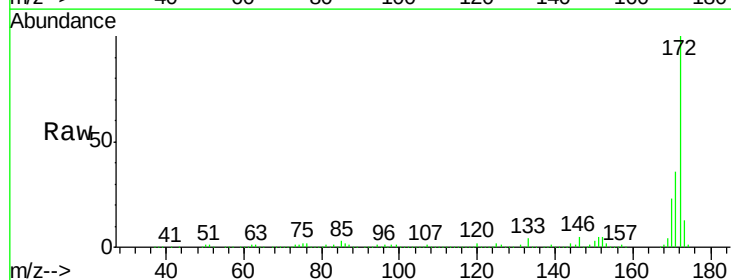
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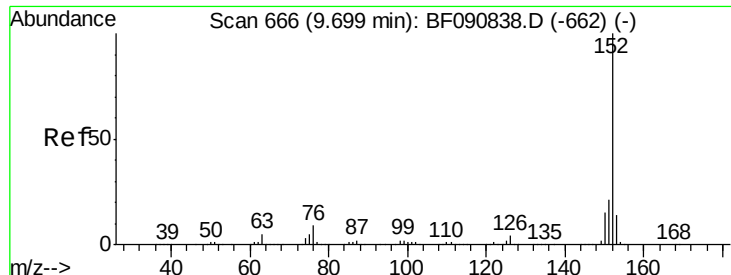
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#44
 2-Fluorobiphenyl
 Concen: 59.70 ng
 RT: 9.12 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	941170		
171	35.8	26.1	39.1	
170	23.4	17.4	26.2	





#48

Acenaphthylene

Concen: 2.47 ng

RT: 9.64 min Scan# 661

Delta R.T. -0.01 min

Lab File: BF090946.D

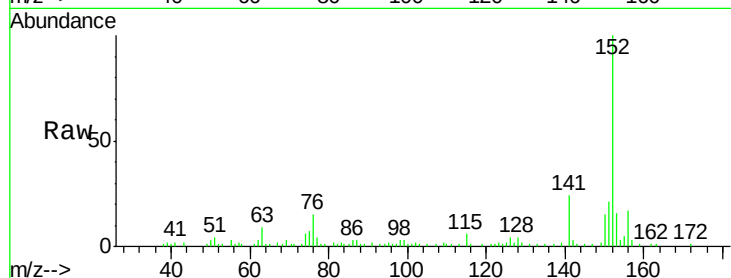
Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

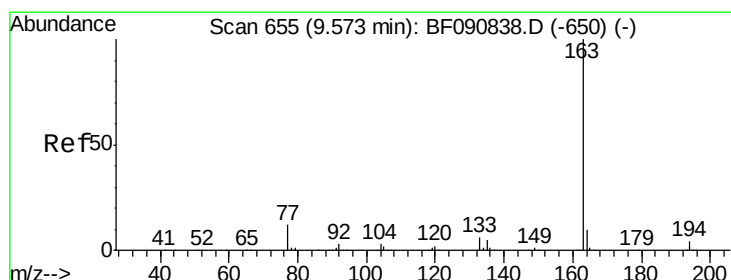
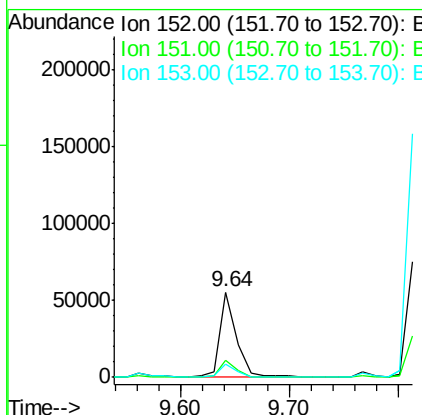
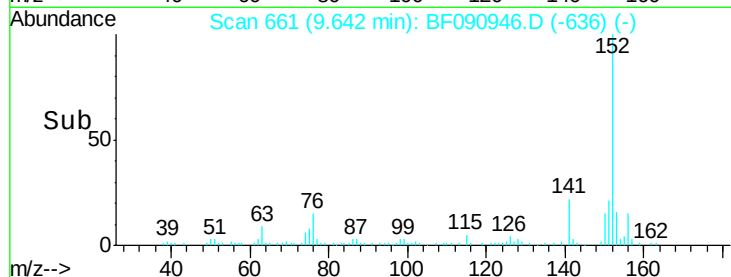
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Tgt Ion:	152	Resp:	56726
Ion Ratio	Lower	Upper	
152	100		
151	20.7	14.6	22.0
153	16.0	10.3	15.5

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#49

Dimethylphthalate

Concen: 21.34 ng

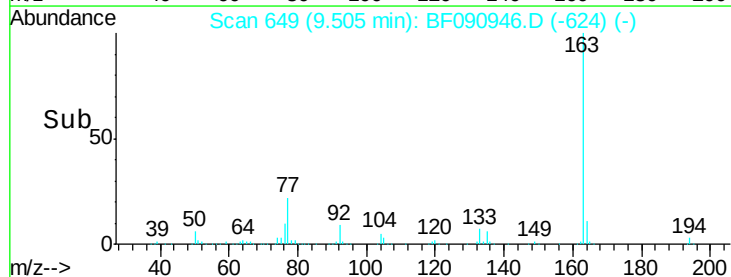
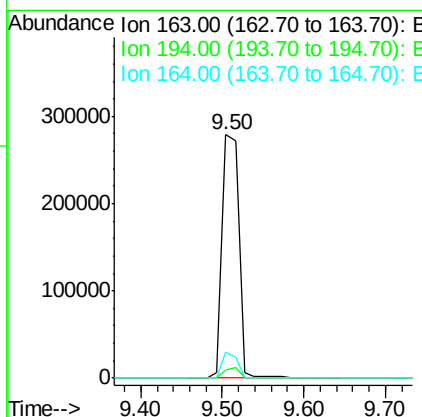
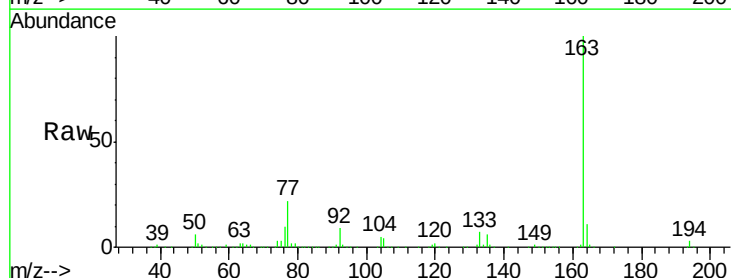
RT: 9.50 min Scan# 649

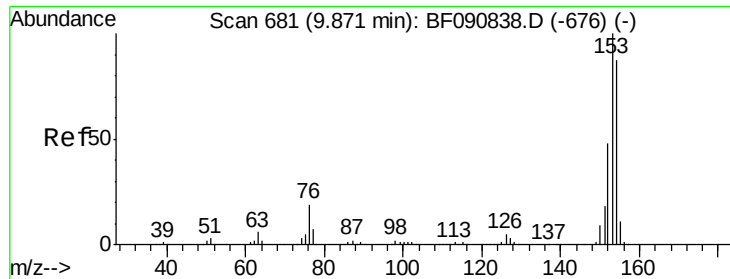
Delta R.T. -0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:	163	Resp:	394742
Ion Ratio	Lower	Upper	
163	100		
194	3.1	4.4	6.6
164	10.6	8.3	12.5





#51

Acenaphthene

Concen: 8.68 ng

RT: 9.81 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

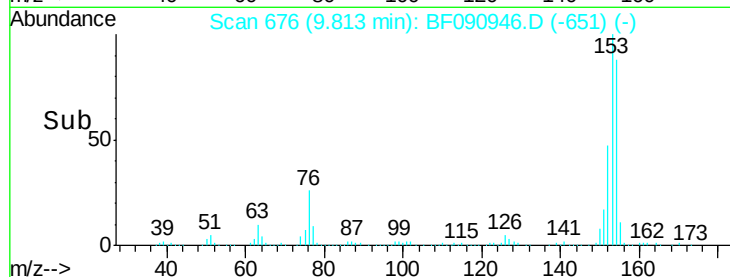
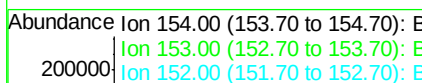
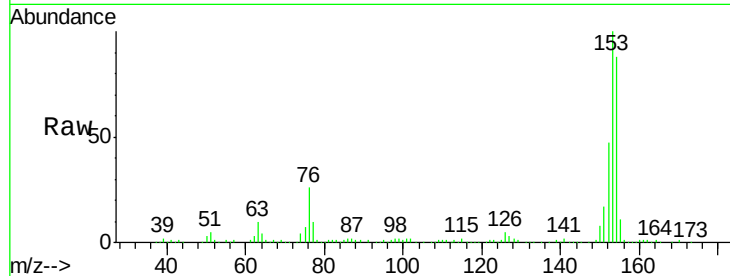
ClientSampleId :

SB-02-8.5-9.0RE

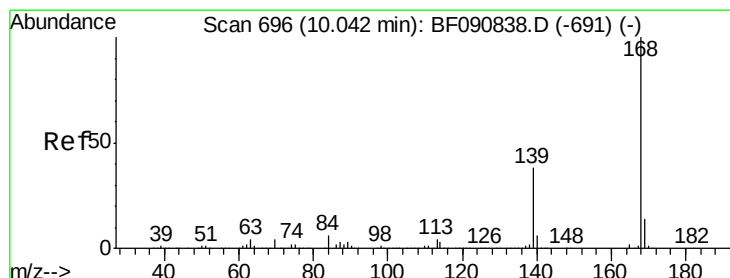
Tgt Ion:	154	Resp:	137339
Ion Ratio	Lower	Upper	
154	100		
153	113.3	82.1	123.1
152	53.5	37.9	56.9

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#54

Dibenzofuran

Concen: 5.48 ng

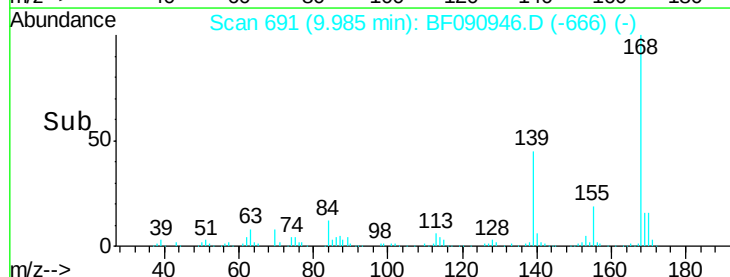
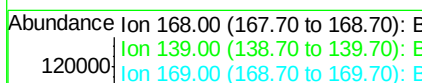
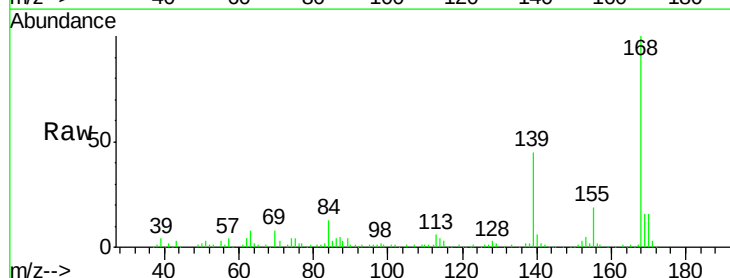
RT: 9.98 min Scan# 691

Delta R.T. -0.01 min

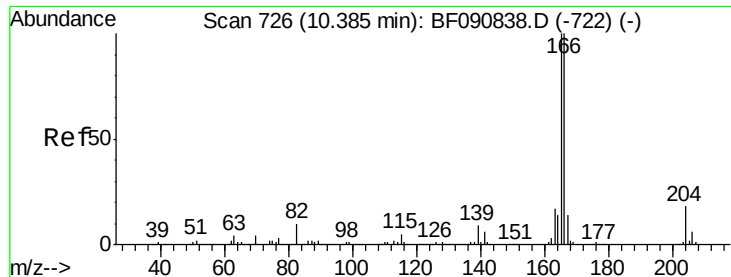
Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:	168	Resp:	111920
Ion Ratio	Lower	Upper	
168	100		
139	44.8	24.2	36.2#
169	16.0	10.6	15.8#



Time-->



#57

Fluorene

Concen: 7.38 ng

RT: 10.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

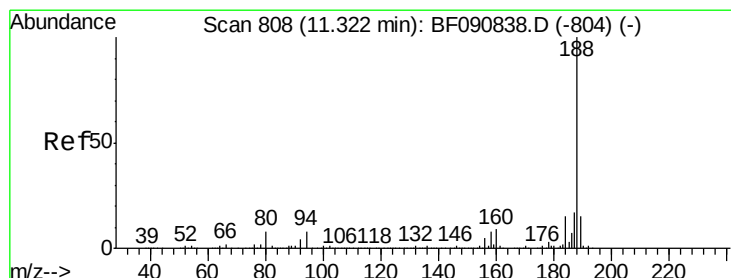
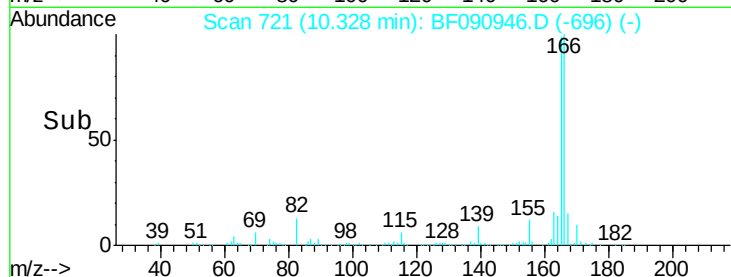
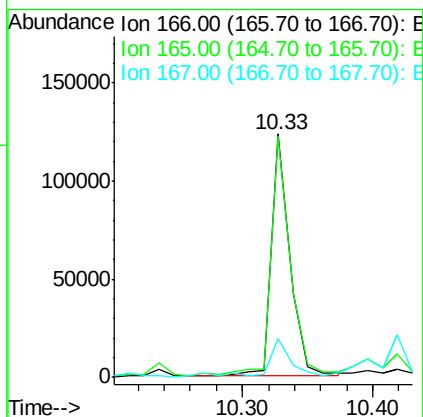
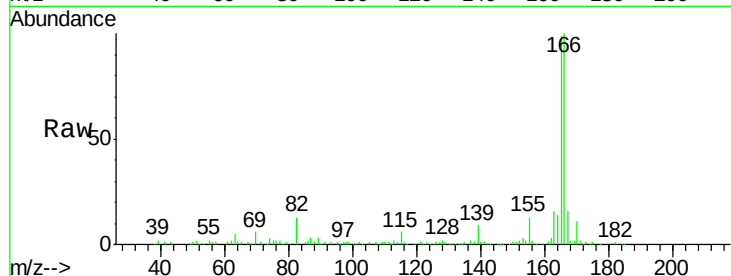
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	166	Resp:	123442
Ion Ratio	Lower	Upper	
166	100		
165	98.9	72.6	109.0
167	15.7	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

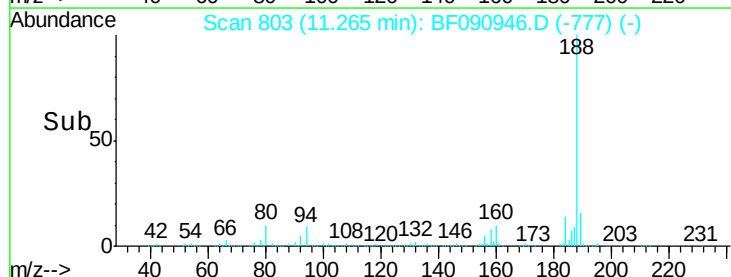
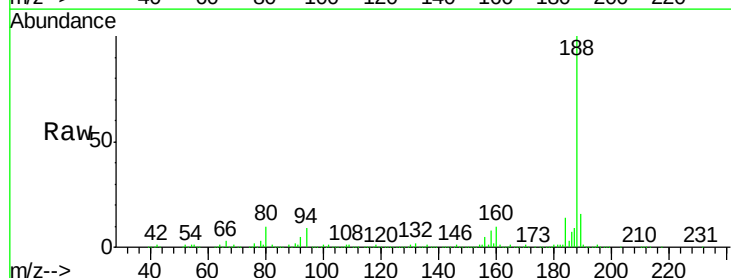
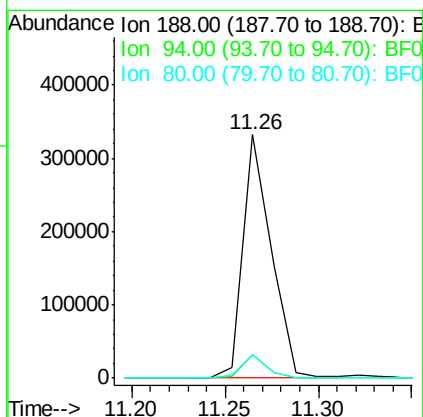
RT: 11.26 min Scan# 803

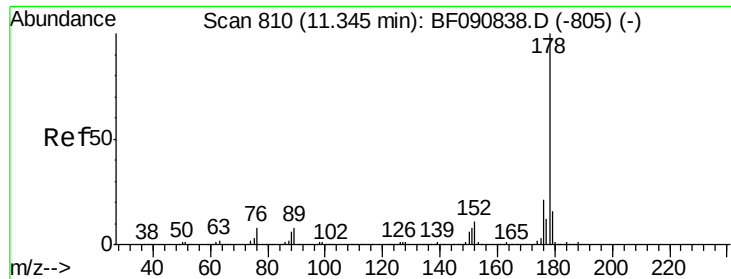
Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:	188	Resp:	350700
Ion Ratio	Lower	Upper	
188	100		
94	9.4	11.1	16.7#
80	9.7	11.0	16.4#





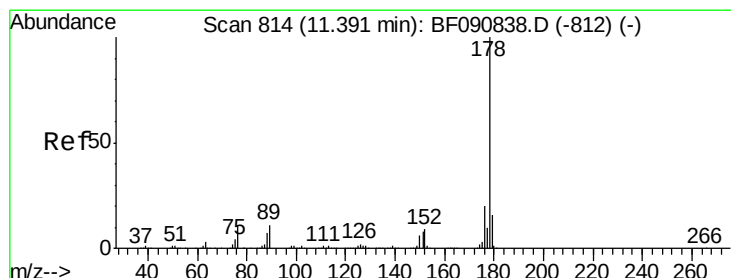
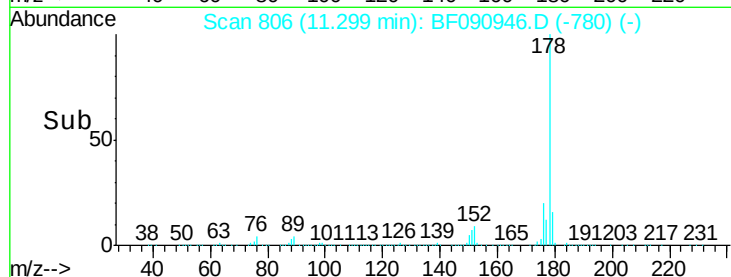
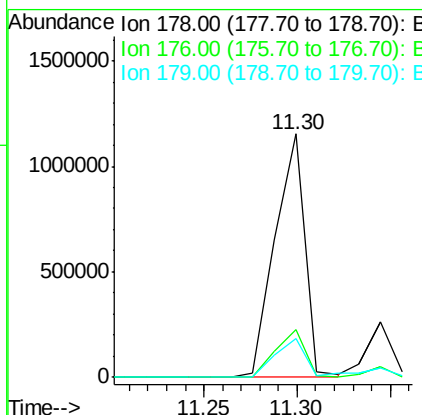
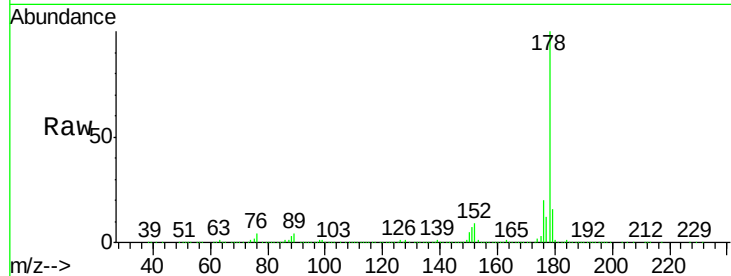
#70
Phenanthrene
Concen: 71.65 ng
RT: 11.30 min Scan# 806
Delta R.T. -0.00 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

Tgt Ion:178 Resp: 1279532
Ion Ratio Lower Upper
178 100
176 19.8 13.8 20.8
179 15.7 12.2 18.2

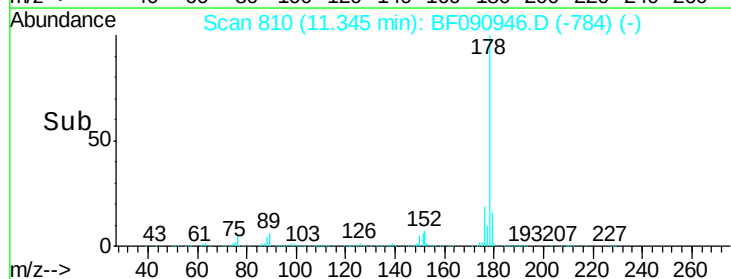
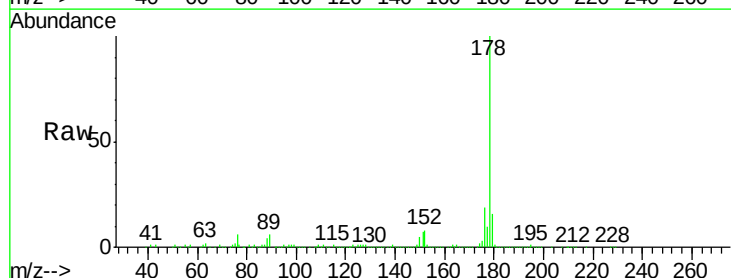
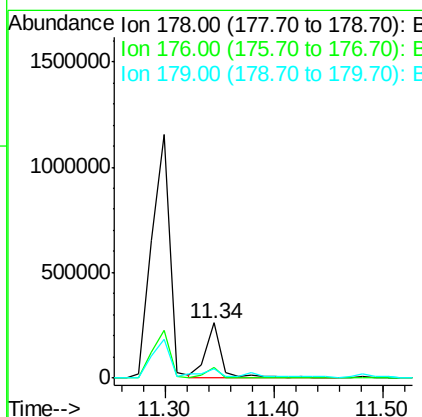
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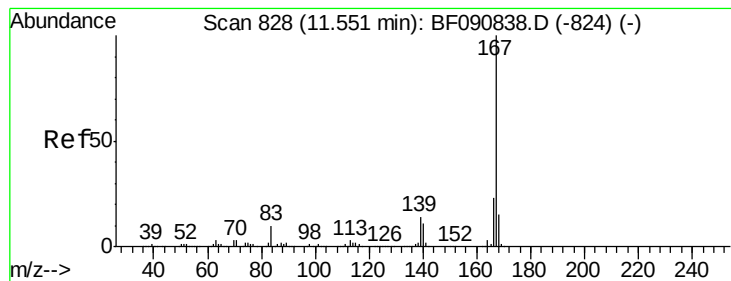
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#71
Anthracene
Concen: 13.97 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion:178 Resp: 262770
Ion Ratio Lower Upper
178 100
176 18.6 14.1 21.1
179 16.1 12.2 18.2





#72

Carbazole

Concen: 4.27 ng

RT: 11.50 min Scan# 824

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

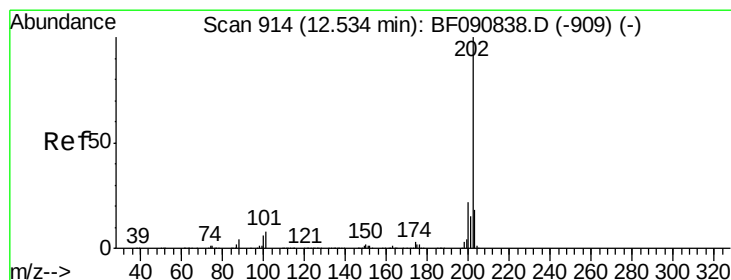
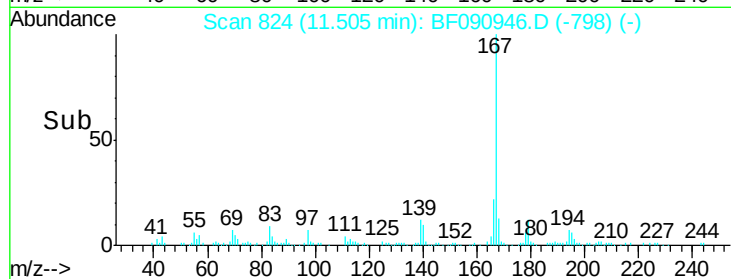
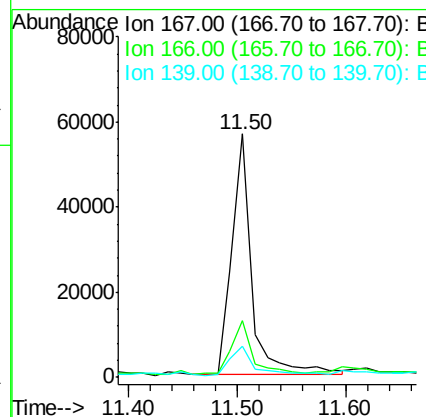
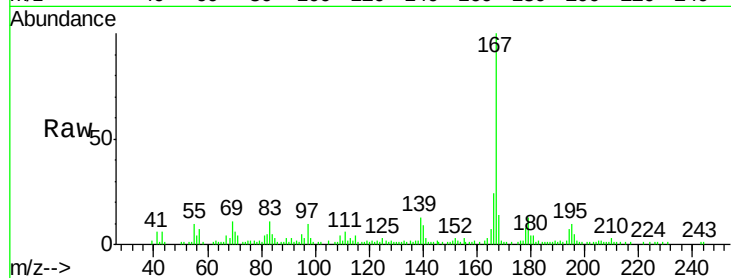
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	167	Resp:	70973
Ion Ratio	Lower	Upper	
167	100		
166	23.5	15.7	23.5
139	12.7	9.5	14.3

Manual Integrations
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#74

Fluoranthene

Concen: 72.20 ng

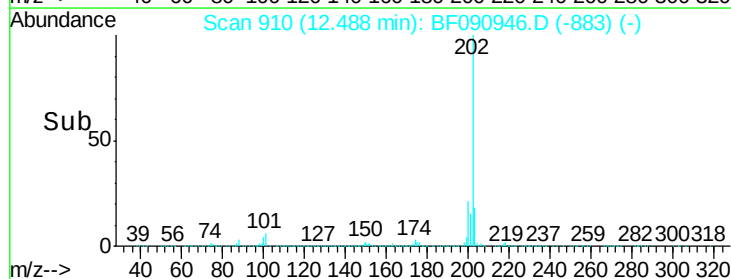
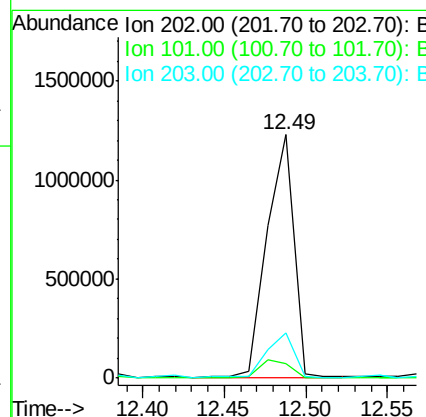
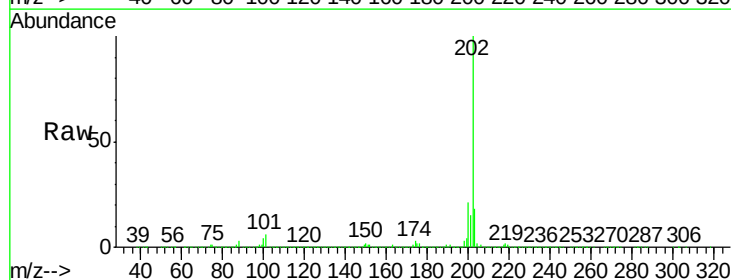
RT: 12.49 min Scan# 910

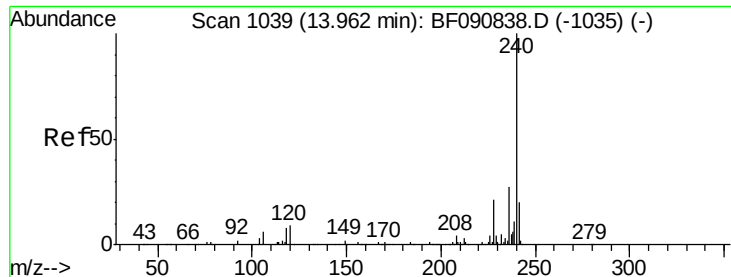
Delta R.T. 0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:	202	Resp:	1412067
Ion Ratio	Lower	Upper	
202	100		
101	5.9	0.0	38.3
203	18.4	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

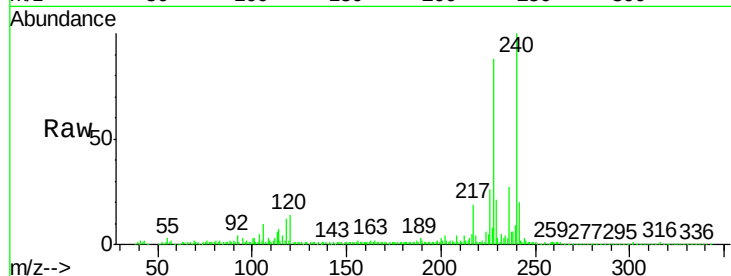
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.9	16.2	24.2#
236	26.9	18.4	27.6

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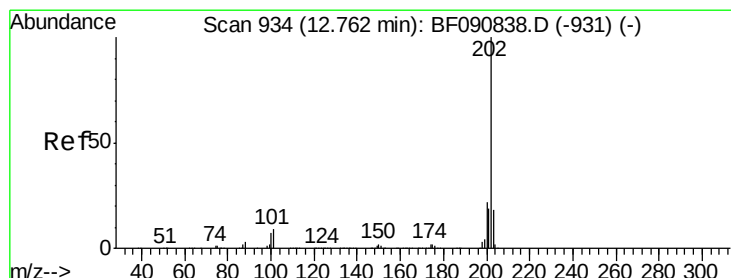
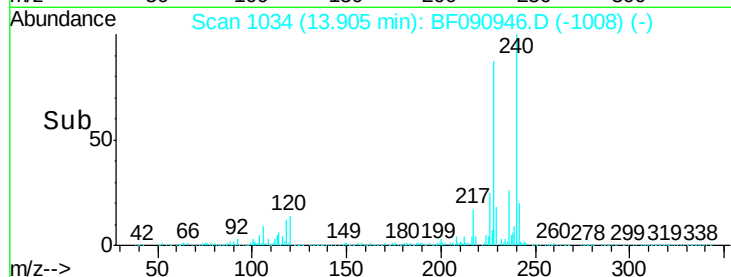
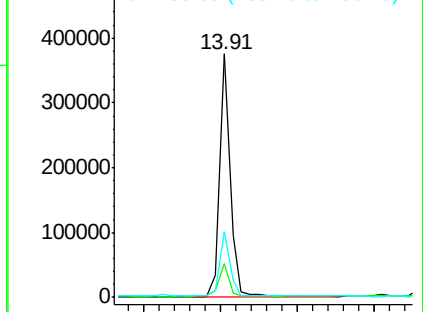
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 60.04 ng

RT: 12.72 min Scan# 930

Delta R.T. 0.01 min

Lab File: BF090946.D

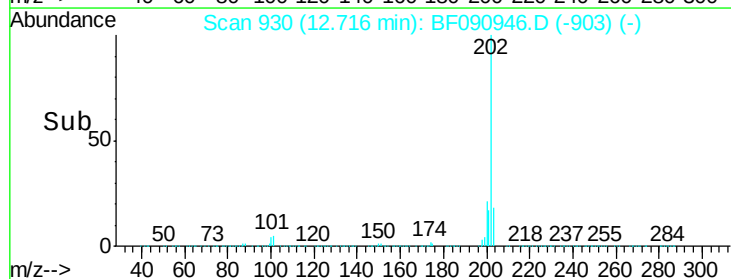
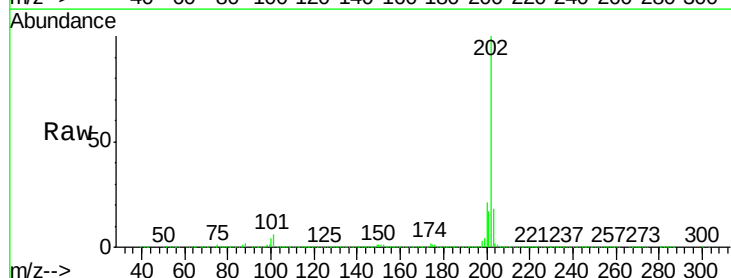
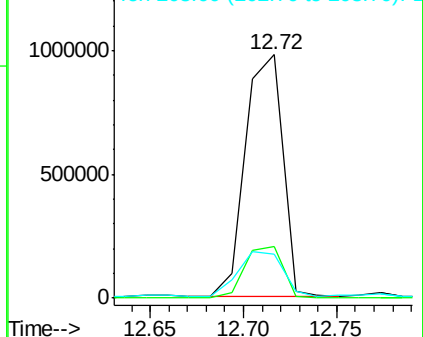
Acq: 31 Oct 2016 23:27

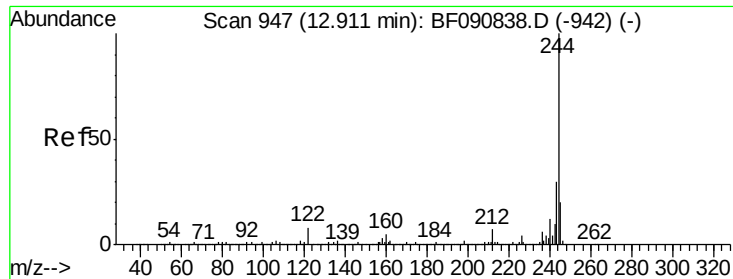
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	15.0	22.4
203	18.1	14.1	21.1

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 48.85 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:244 Resp: 698038
Ion Ratio Lower Upper

244 100

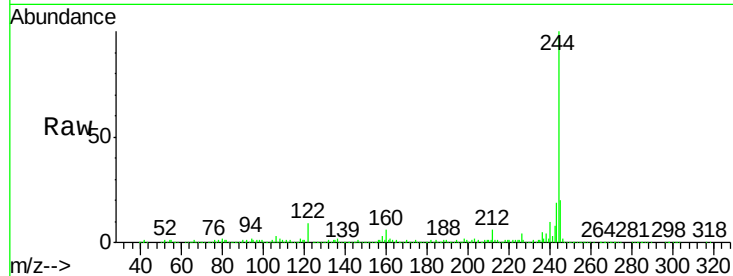
212 6.3 4.3 6.5

122 9.3 17.4 26.2#

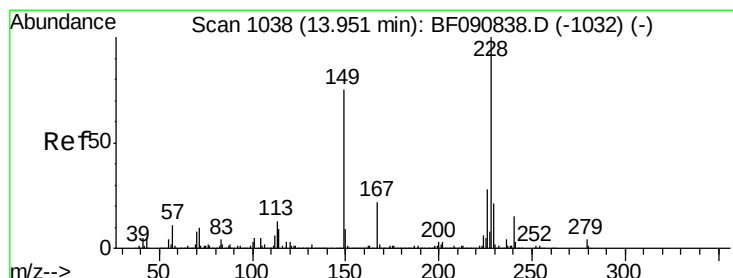
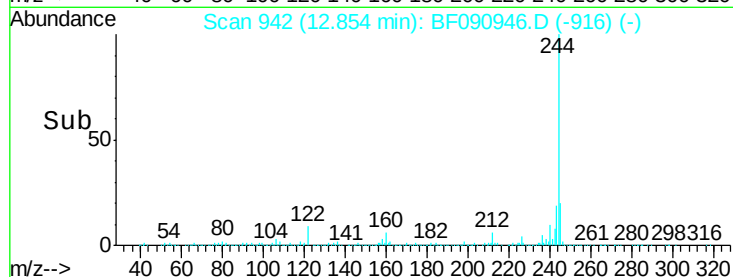
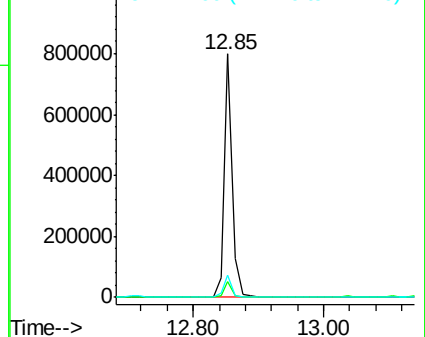
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 43.44 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

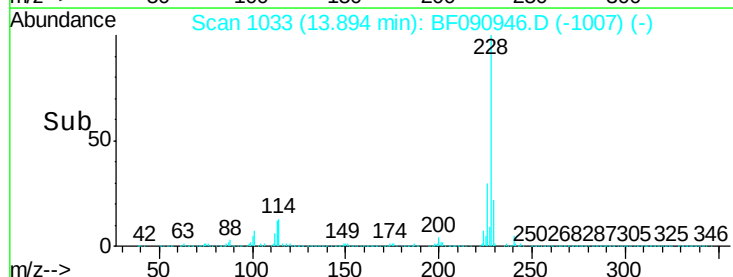
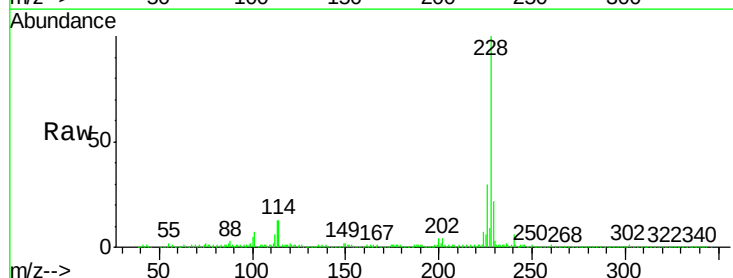
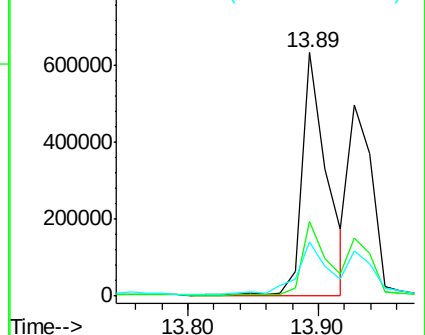
Tgt Ion:228 Resp: 830031
Ion Ratio Lower Upper

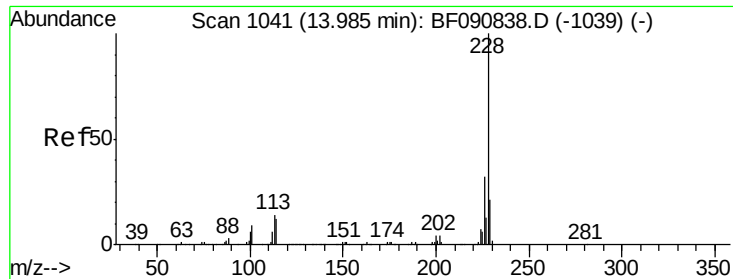
228 100

226 30.4 20.0 30.0#

229 22.2 15.4 23.2

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: 32.57 ng m

RT: 13.93 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

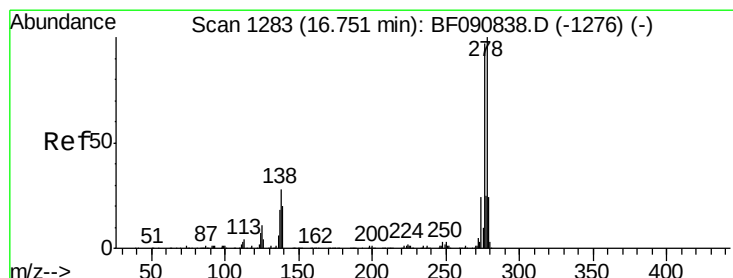
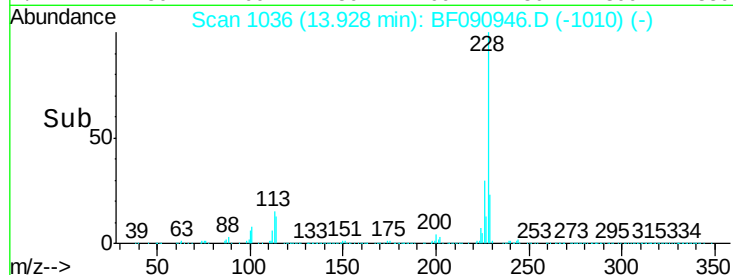
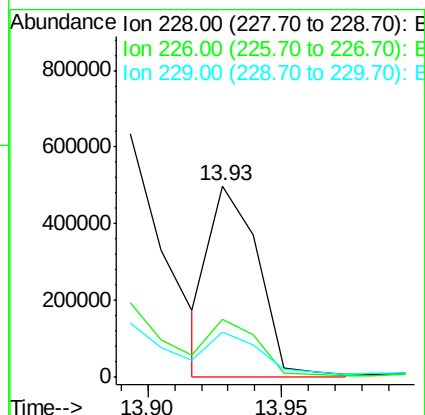
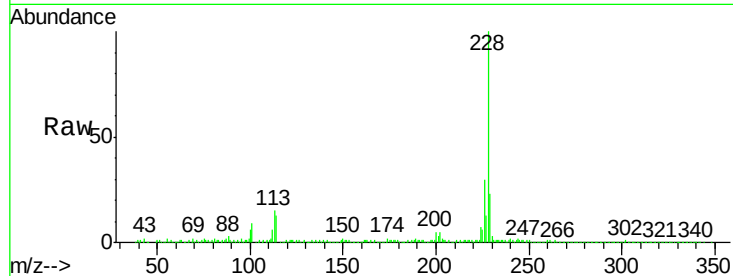
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	228	Resp:	629350
Ion Ratio	Lower	Upper	
228	100		
226	30.2	21.0	31.4
229	23.4	15.6	23.4#

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#85

Indeno(1,2,3-cd)pyrene

Concen: 16.09 ng

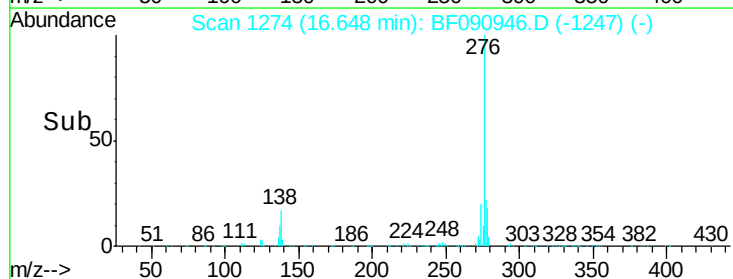
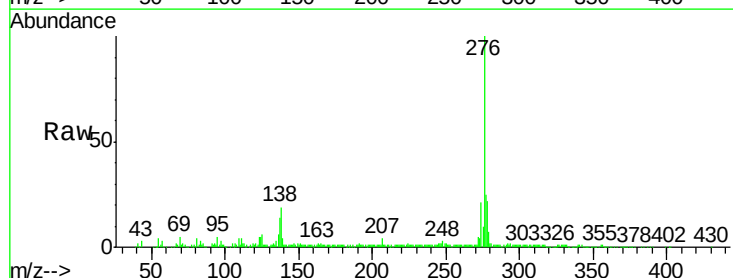
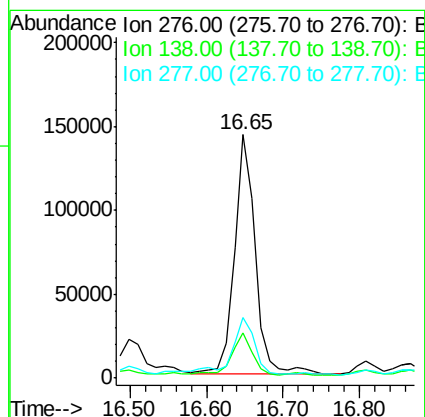
RT: 16.65 min Scan# 1274

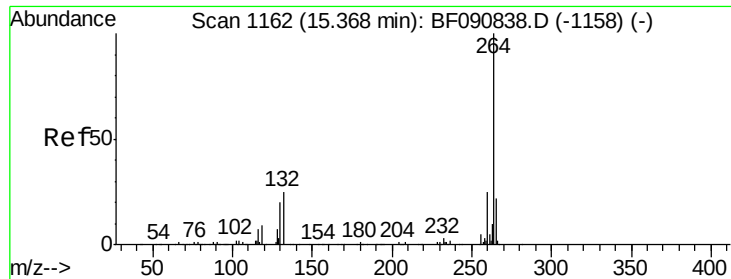
Delta R.T. 0.01 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:	276	Resp:	275561
Ion Ratio	Lower	Upper	
276	100		
138	17.2	25.7	38.5#
277	25.2	15.6	23.4#





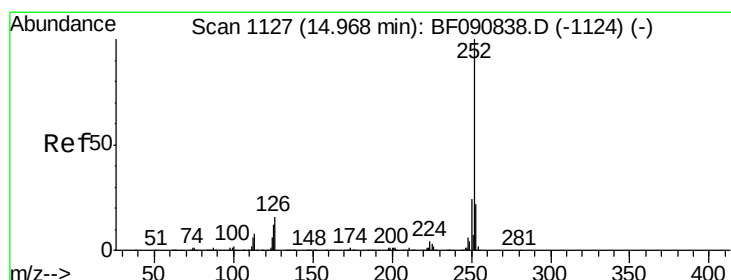
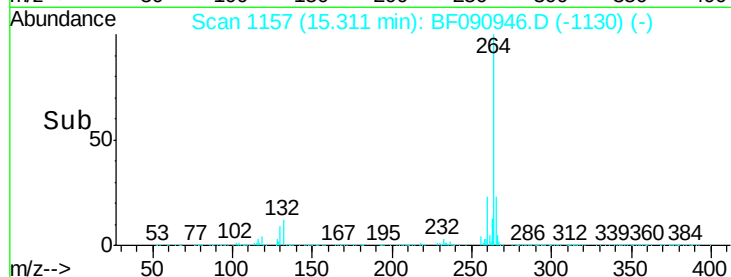
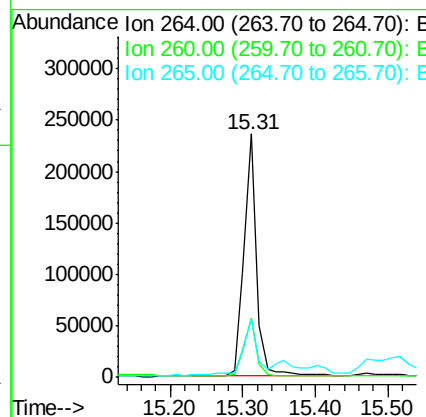
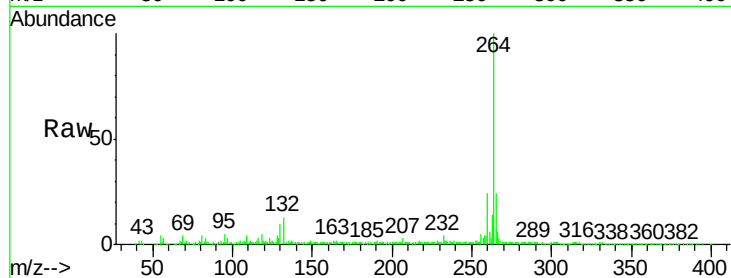
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1157
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	286501		
260	24.1	16.7	25.1	
265	23.7	17.2	25.8	

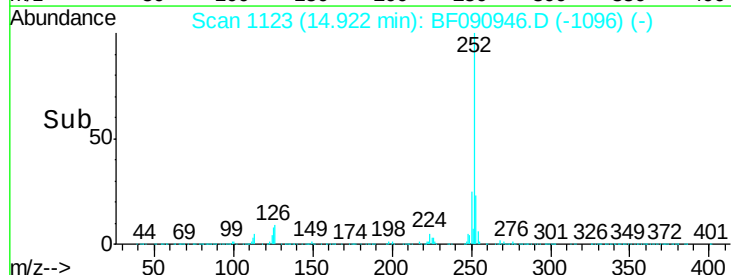
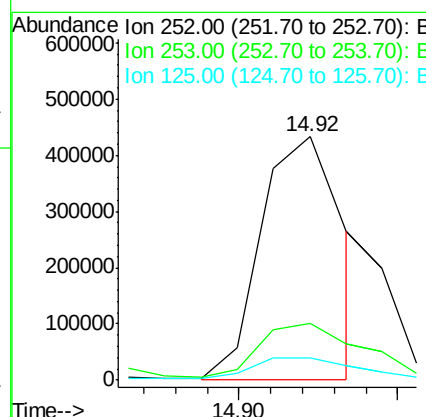
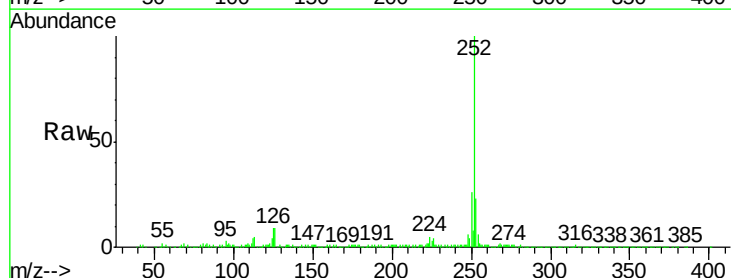
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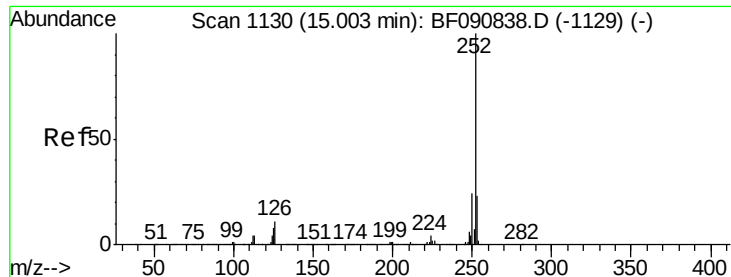
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#87
Benzo(b)fluoranthene
Concen: 40.28 ng m
RT: 14.92 min Scan# 1123
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	776066		
253	23.3	17.5	26.3	
125	9.3	17.1	25.7#	





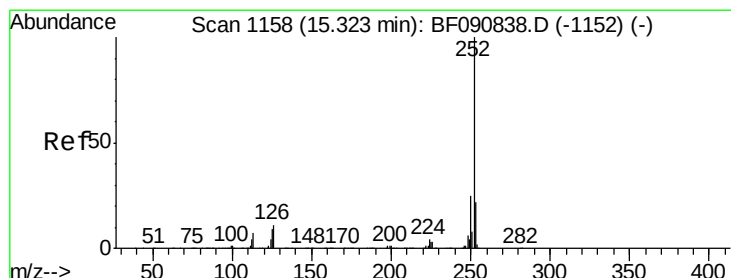
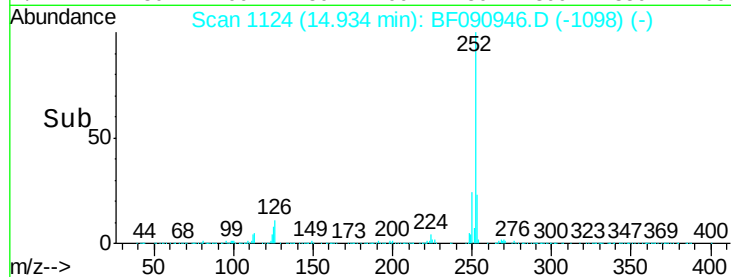
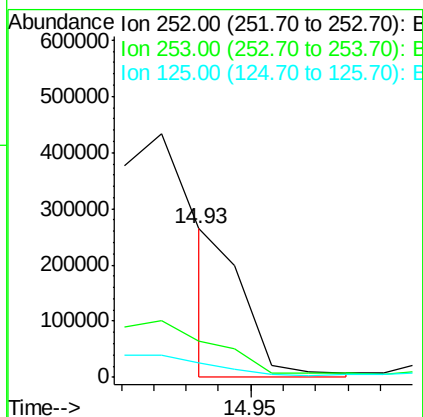
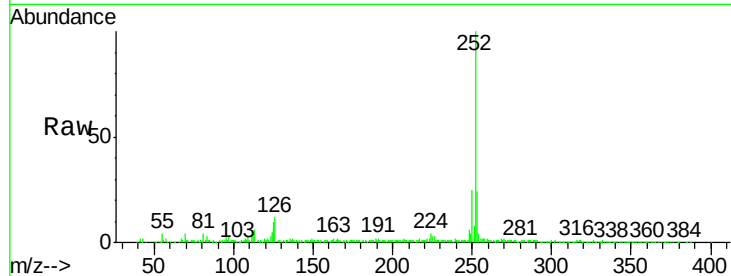
#88
Benzo(k)fluoranthene
Concen: 10.72 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.00 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.1	17.0	25.4
125	9.8	16.0	24.0

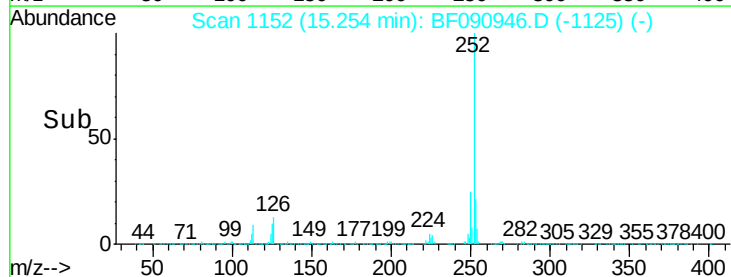
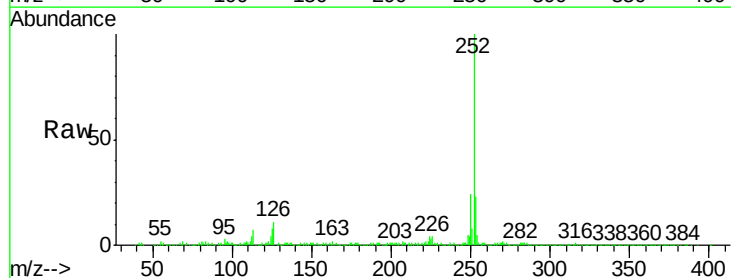
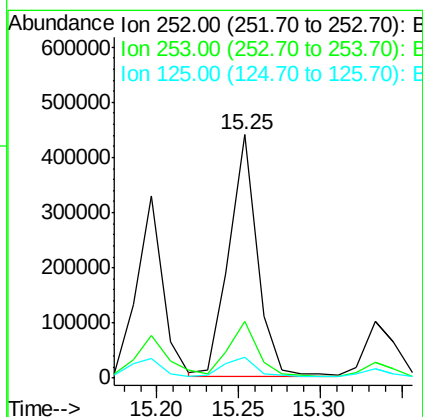
Manual Integrations
APPROVED

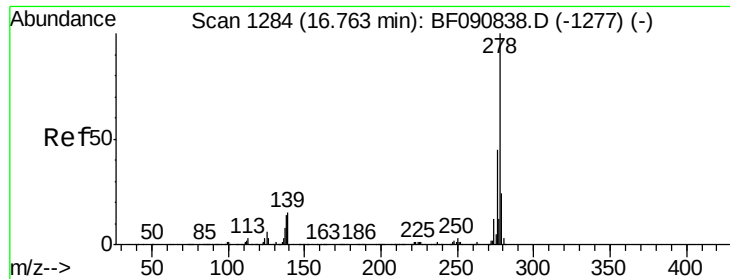
sohil
11/1/2016 5:20:07 PM



#89
Benzo(a)pyrene
Concen: 31.87 ng
RT: 15.25 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.3	17.2	25.8
125	8.4	18.0	27.0





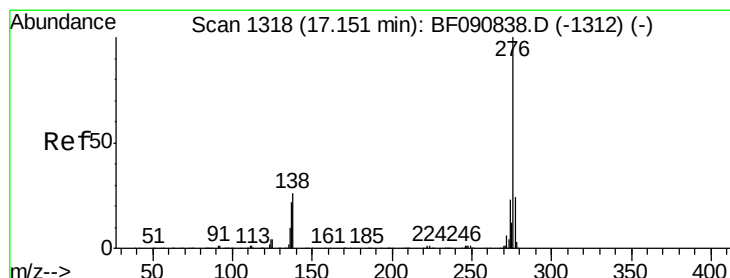
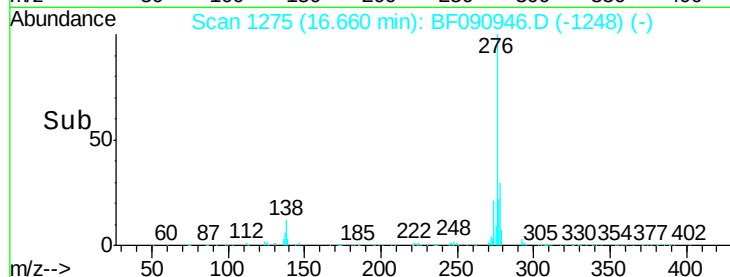
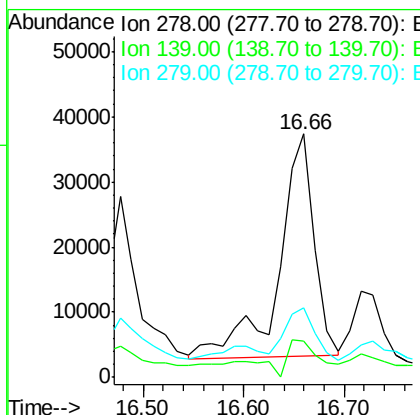
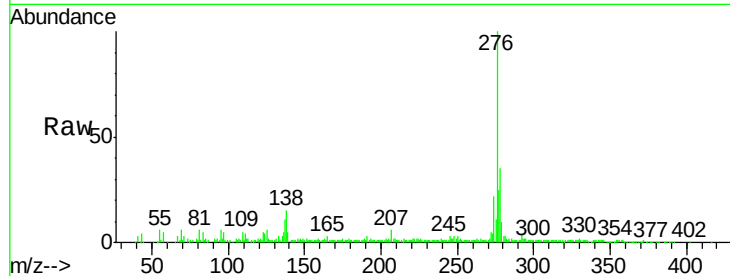
#90
Dibenzo(a,h)anthracene
Concen: 5.96 ng
RT: 16.66 min Scan# 1275
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.6	26.3	39.5#
279	28.7	18.2	27.4#

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 19.94 ng
RT: 17.05 min Scan# 1309
Delta R.T. 0.01 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.8	26.6
138	19.4	34.6	51.8#

