

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092016\
 Data File : BF090149.D
 Acq On : 20 Sep 2016 22:24
 Operator : UM/SJ
 Sample : H4850-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALL

Manual Integrations
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 9/21/2016 4:16:00 PM

Quant Time: Sep 21 09:43:28 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	158906	20.00	ng	-0.01
21) Naphthalene-d8	7.80	136	619684	20.00	ng	-0.01
38) Acenaphthene-d10	9.55	164	303392	20.00	ng	0.00
63) Phenanthrene-d10	11.02	188	382563	20.00	ng	-0.01
75) Chrysene-d12	13.65	240	238893	20.00	ng	0.01
86) Perylene-d12	14.97	264	244570	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	1049608	107.66	ng	0.01
7) Phenol-d6	6.18	99	1539980	127.91	ng	0.01
23) Nitrobenzene-d5	7.10	82	865425	80.96	ng	0.00
41) 2,4,6-Tribromophenol	10.33	330	215207	82.68	ng	-0.01
44) 2-Fluorobiphenyl	8.89	172	1284344	83.11	ng	0.00
78) Terphenyl-d14	12.61	244	712511	75.72	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.83	128	205155	6.95	ng	98
48) Acenaphthylene	9.40	152	546684	21.02	ng	98
49) Dimethylphthalate	9.29	163	576426	29.83	ng	99
51) Acenaphthene	9.58	154	49188	3.19	ng	98
54) Dibenzofuran	9.75	168	108391	5.34	ng	93
57) Fluorene	10.09	166	89255m	5.83	ng	
70) Phenanthrene	11.05	178	1797116	100.45	ng	98
71) Anthracene	11.10	178	498037	26.54	ng	99
72) Carbazole	11.26	167	126519	6.38	ng	99
73) Di-n-butylphthalate	11.61	149	425502	18.45	ng	# 98
74) Fluoranthene	12.24	202	2921536	152.13	ng	97
77) Pyrene	12.47	202	2948131	180.35	ng	99
80) Benzo(a)anthracene	13.63	228	1318825m	102.61	ng	
82) Chrysene	13.67	228	1522972m	121.64	ng	
83) Bis(2-ethylhexyl)phthalate	13.66	149	92268	9.02	ng	99
85) Indeno(1,2,3-cd)pyrene	16.16	276	876529	86.59	ng	93
87) Benzo(b)fluoranthene	14.64	252	2118760m	156.45	ng	
88) Benzo(k)fluoranthene	14.65	252	183857m	14.47	ng	
89) Benzo(a)pyrene	14.94	252	1296636	101.78	ng	96
90) Dibenzo(a,h)anthracene	16.16	278	169622m	17.06	ng	
91) Benzo(g,h,i)perylene	16.50	276	857742	88.15	ng	98

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

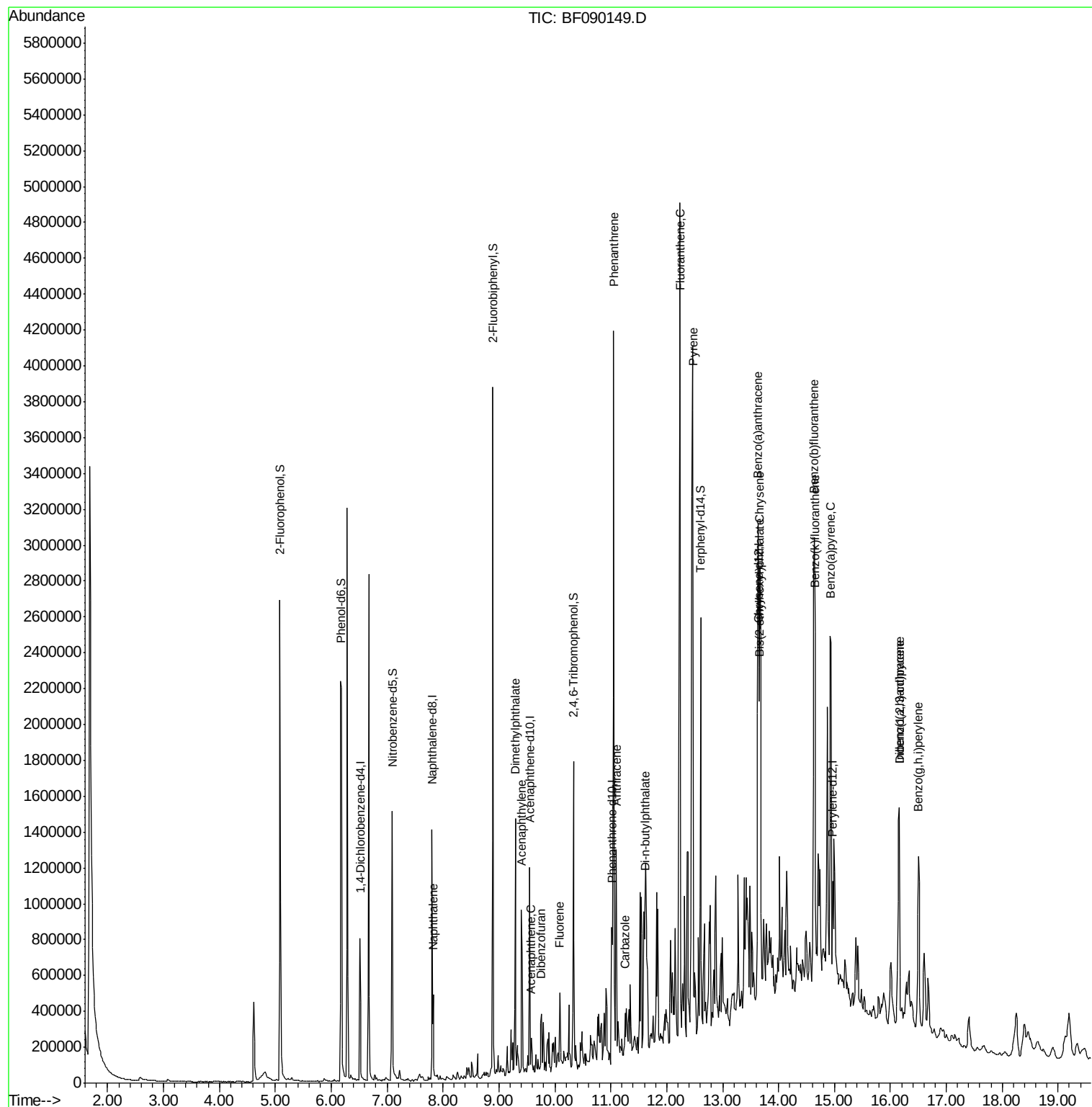
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092016\
Data File : BF090149.D
Acq On : 20 Sep 2016 22:24
Operator : UM/SJ
Sample : H4850-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

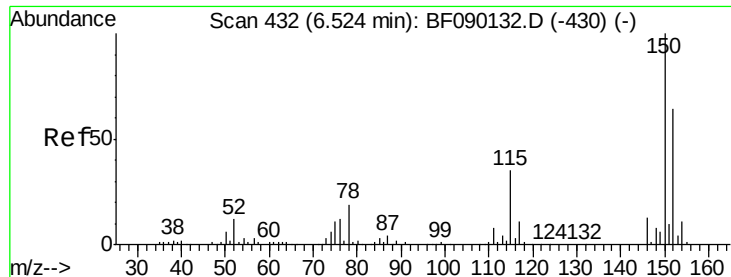
Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Manual Integrations
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#1

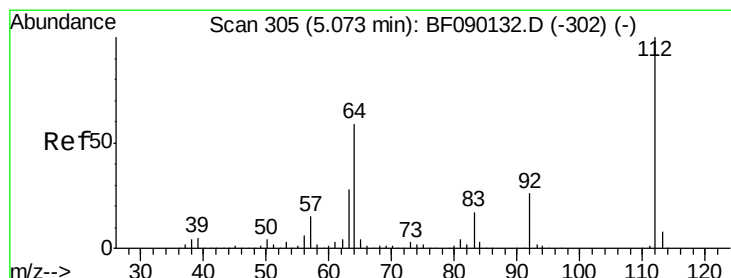
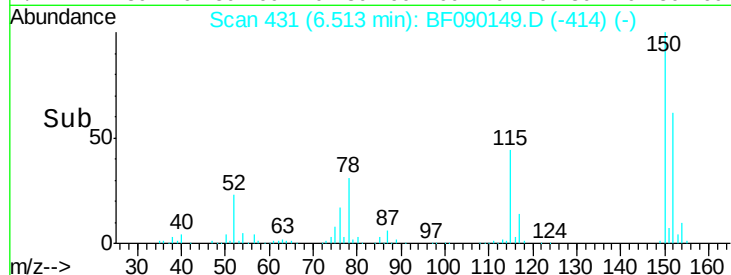
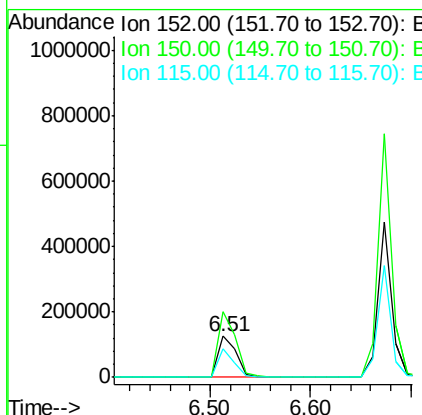
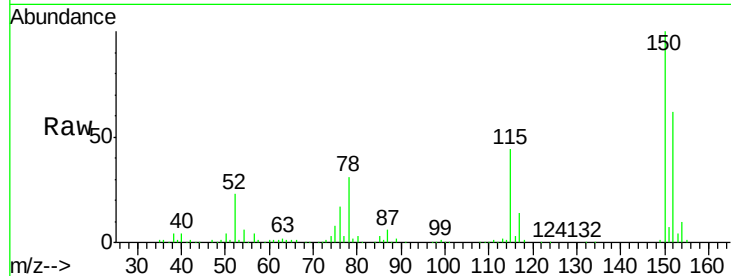
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.51 min Scan# 431
 Delta R.T. -0.01 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.7	128.9	193.3
115	71.0	55.5	83.3

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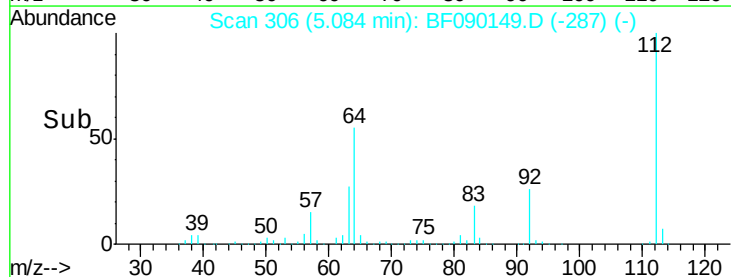
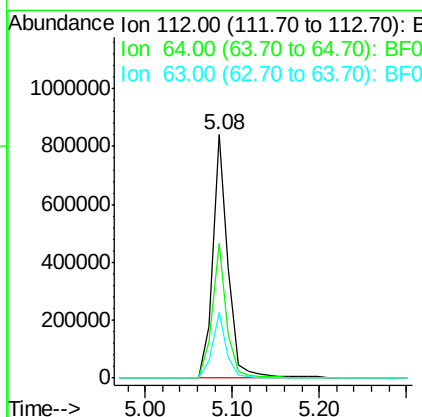
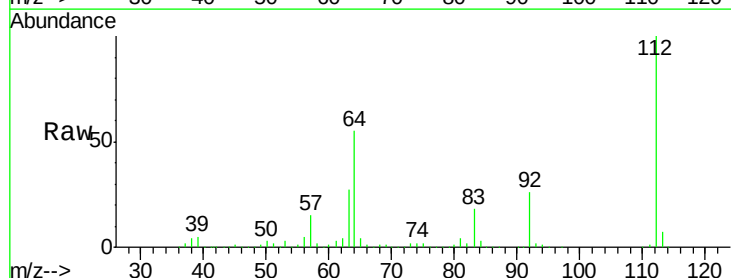
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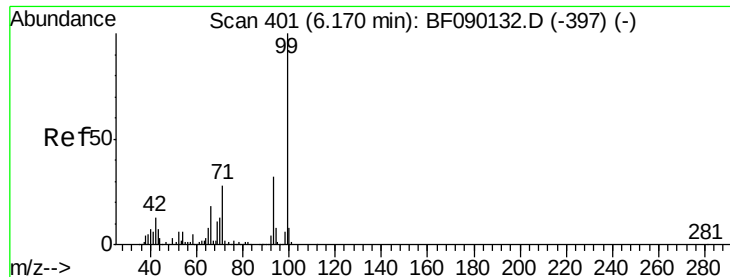


#5

2-Fluorophenol
 Concen: 107.66 ng
 RT: 5.08 min Scan# 306
 Delta R.T. 0.01 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	39.8	59.6
63	26.9	18.9	28.3





#7

Phenol-d6

Concen: 127.91 ng

RT: 6.18 min Scan# 402

Delta R.T. 0.01 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion: 99 Resp: 1539980

Ion Ratio Lower Upper

99 100

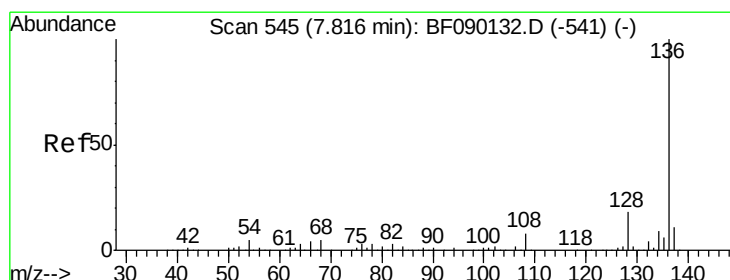
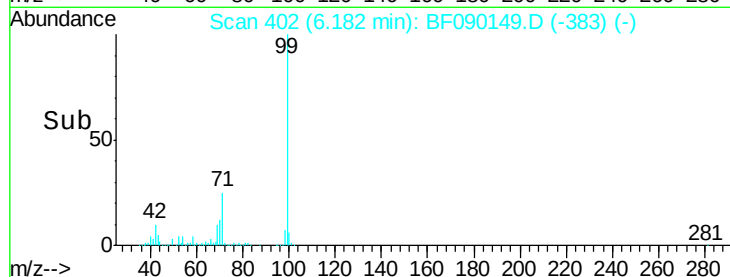
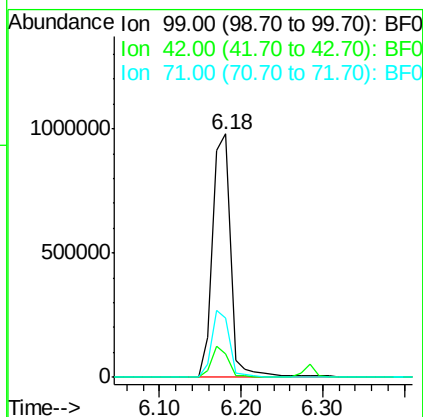
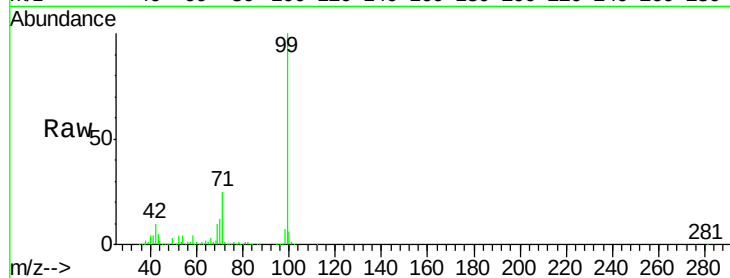
42 9.6 10.6 15.8#

71 24.6 23.0 34.6

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.01 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Tgt Ion: 136 Resp: 619684

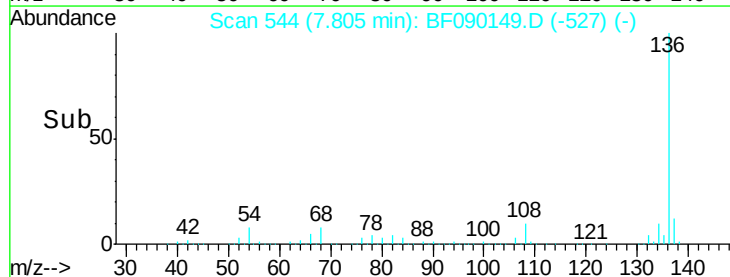
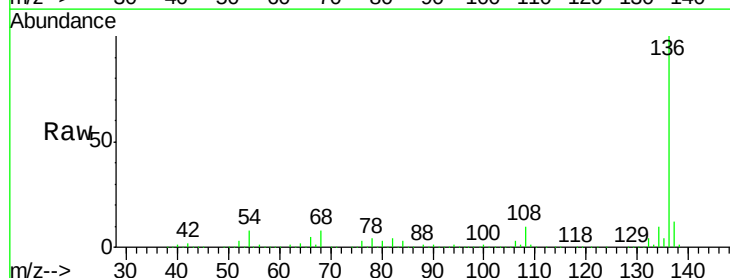
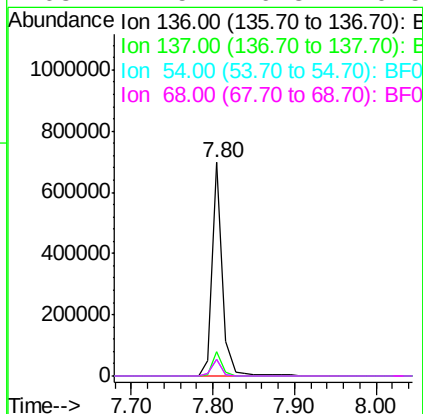
Ion Ratio Lower Upper

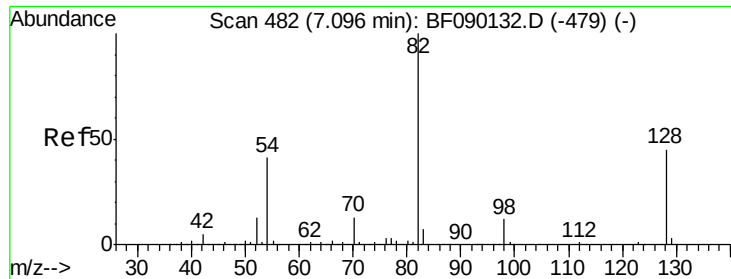
136 100

137 11.5 9.0 13.4

54 7.7 6.4 9.6

68 7.5 6.3 9.5





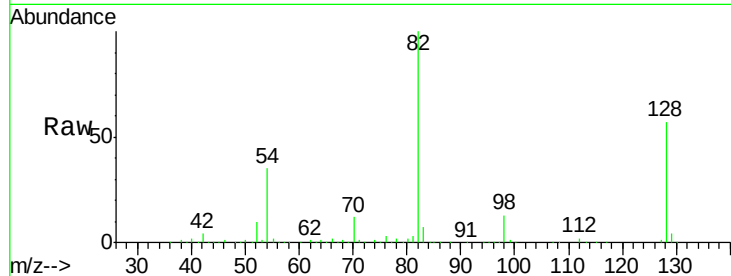
#23
Nitrobenzene-d5
Concen: 80.96 ng
RT: 7.10 min Scan# 482
Delta R.T. 0.00 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

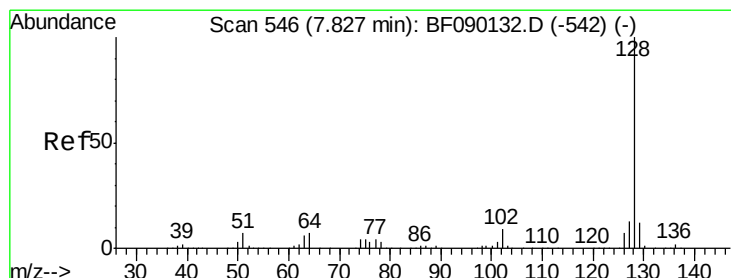
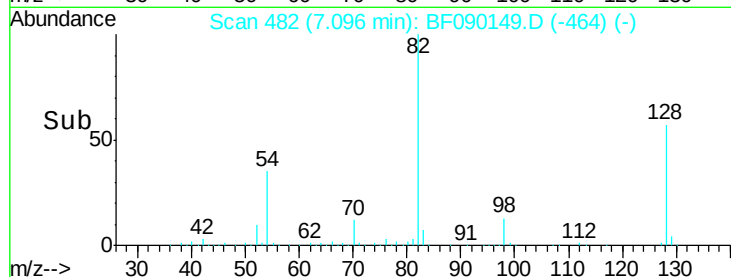
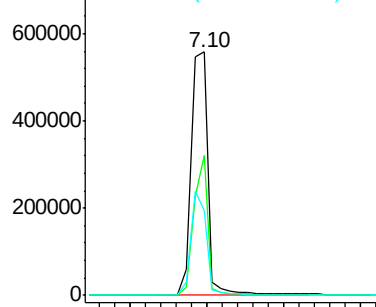
Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	57.3	37.5	56.3#
54	34.7	31.9	47.9

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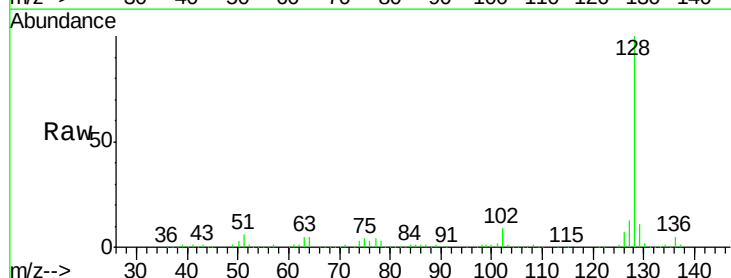


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

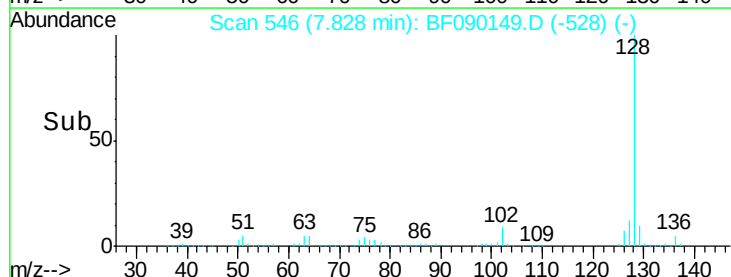
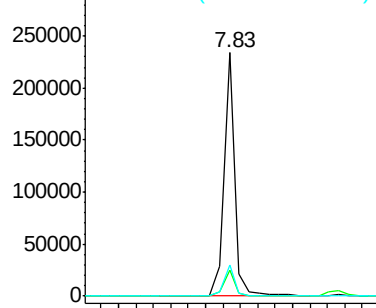


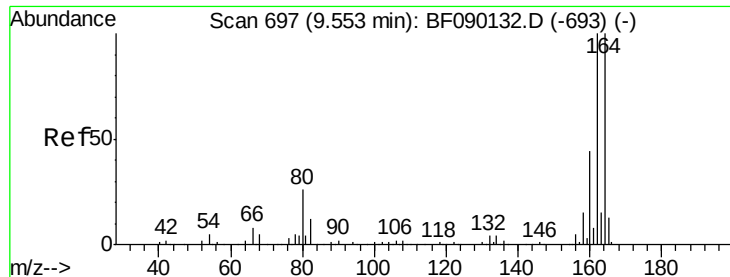
#31
Naphthalene
Concen: 6.95 ng
RT: 7.83 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.7	9.3	13.9
127	12.5	10.8	16.2



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. 0.00 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

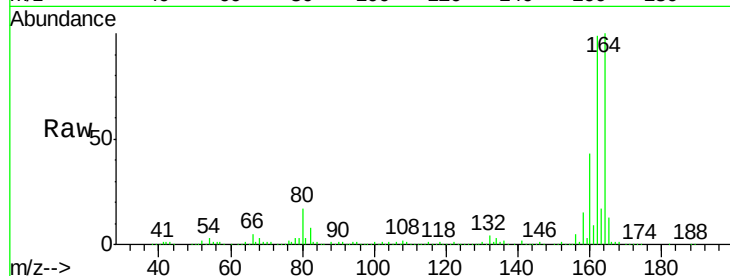
ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:	164	Resp:	303392
Ion Ratio	Lower	Upper	
164	100		
162	99.5	81.4	122.2
160	43.2	36.6	54.8

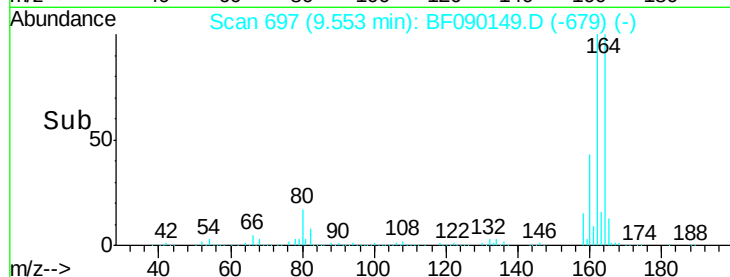
Manual Integrations
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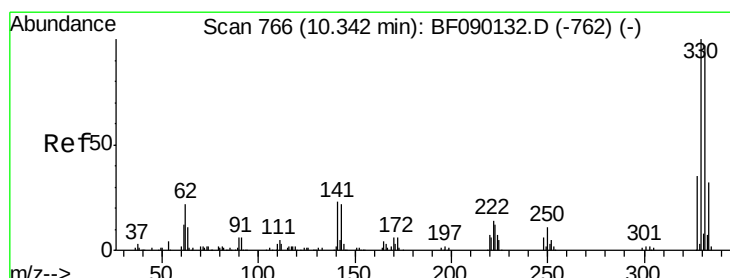


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

9.55



Time-->



#41

2,4,6-Tribromophenol

Concen: 82.68 ng

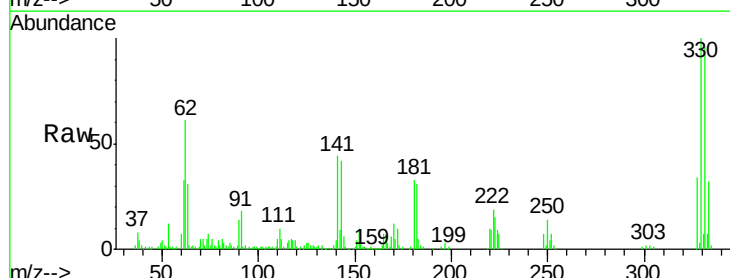
RT: 10.33 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF090149.D

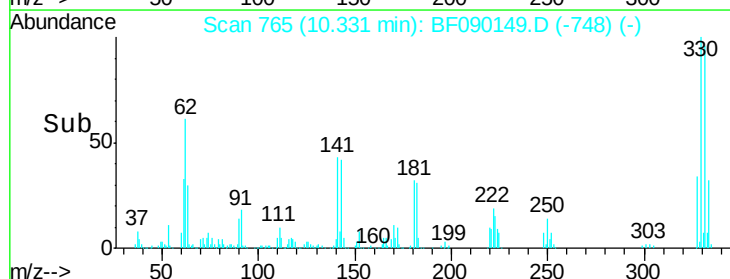
Acq: 20 Sep 2016 22:24

Tgt Ion:	330	Resp:	215207
Ion Ratio	Lower	Upper	
330	100		
332	96.4	78.1	117.1
141	34.4	23.9	35.9

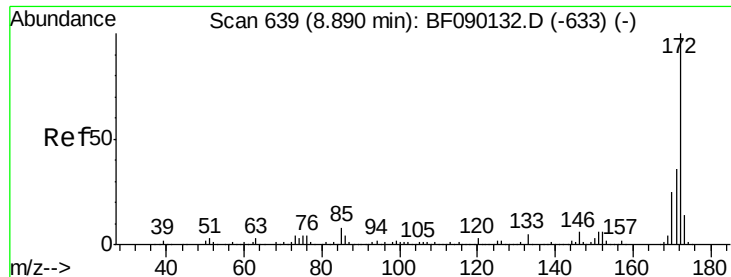


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

10.33



Time-->



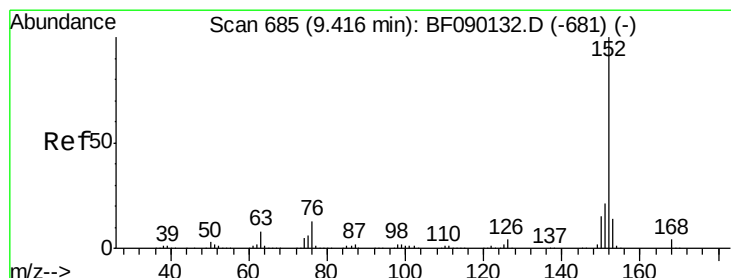
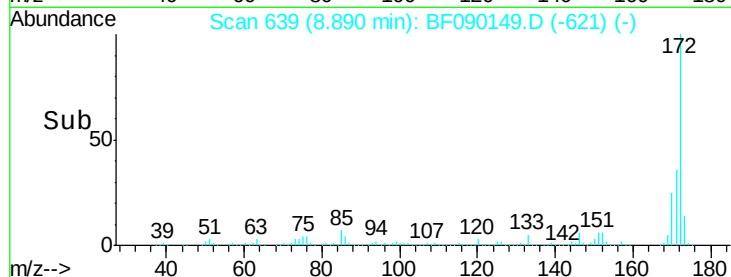
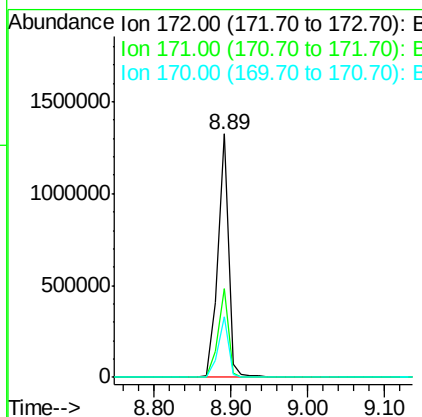
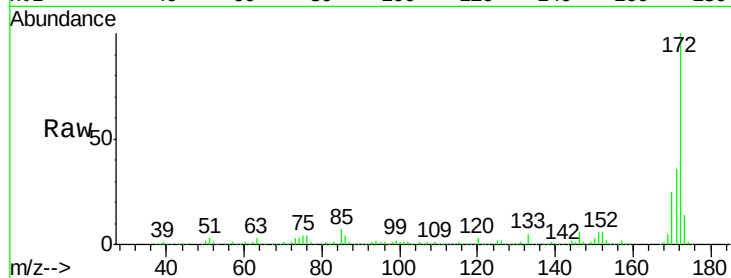
#44
2-Fluorobiphenyl
Concen: 83.11 ng
RT: 8.89 min Scan# 639
Delta R.T. 0.00 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.2	43.8
170	24.8	19.8	29.8

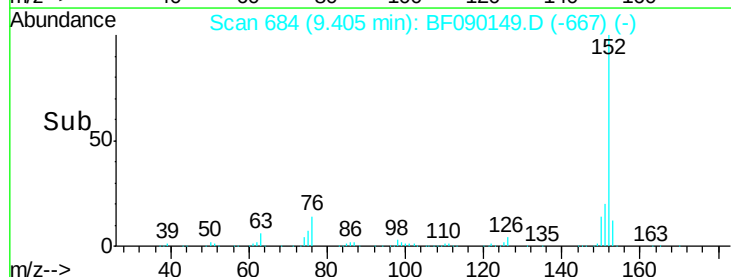
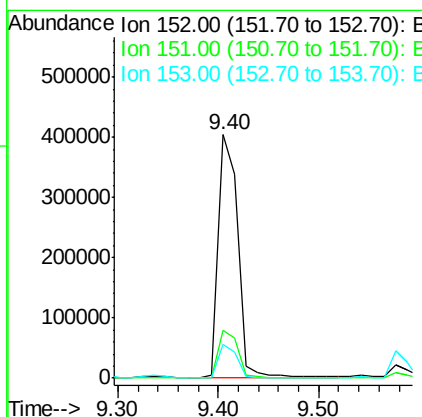
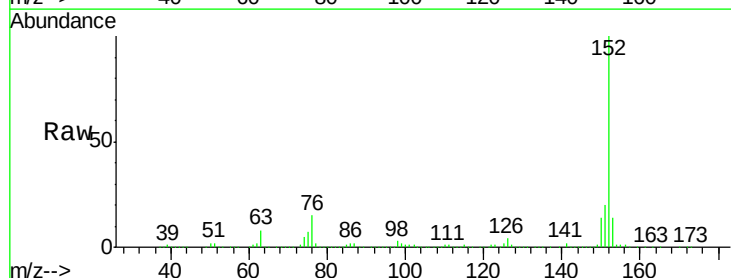
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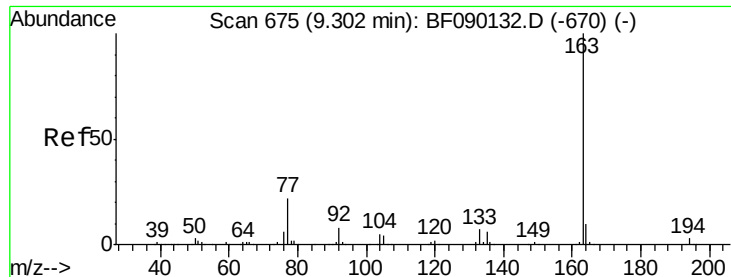
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#48
Acenaphthylene
Concen: 21.02 ng
RT: 9.40 min Scan# 684
Delta R.T. -0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.5	24.7
153	13.9	10.6	15.8





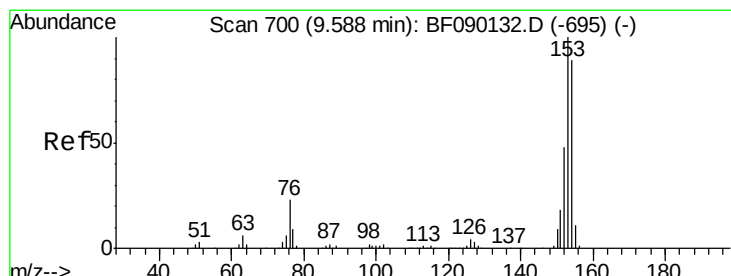
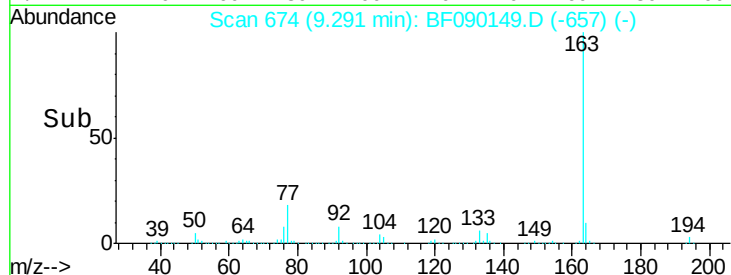
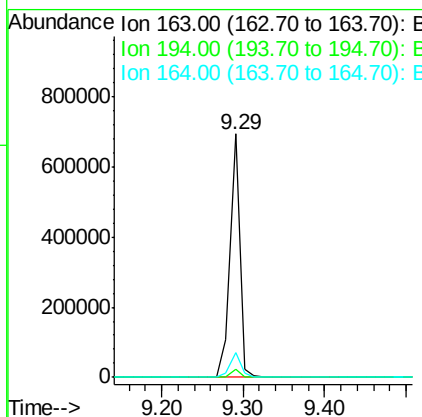
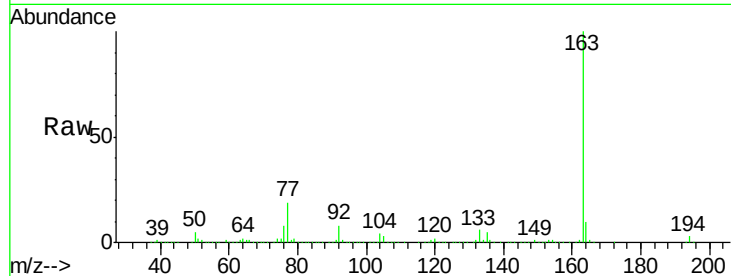
#49
Dimethylphthalate
Concen: 29.83 ng
RT: 9.29 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	576426		
194	3.2		2.8	4.2
164	10.4		8.1	12.1

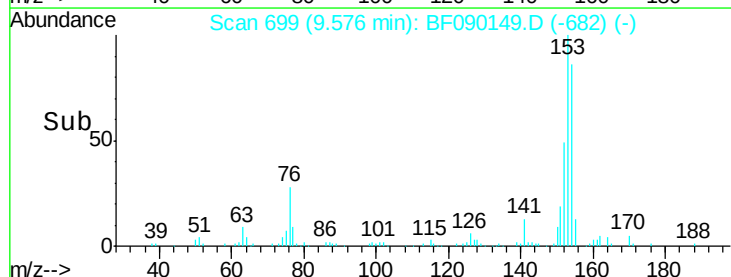
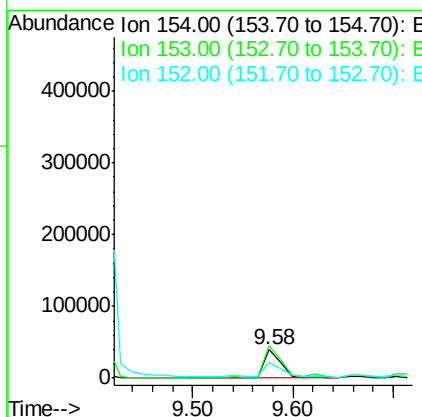
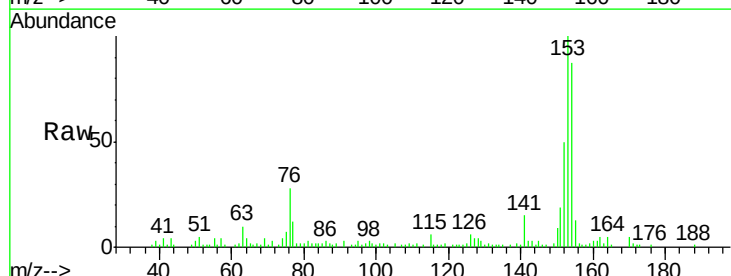
Manual Integrations
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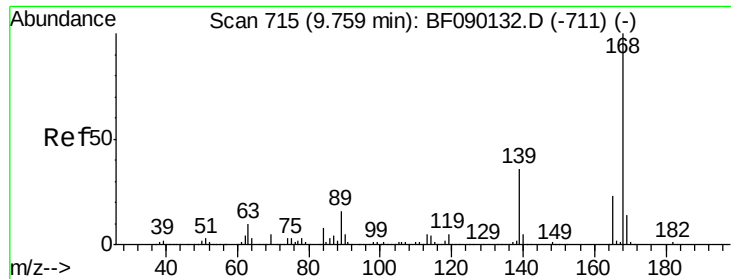
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#51
Acenaphthene
Concen: 3.19 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	49188		
153	115.1		90.8	136.2
152	58.0		44.2	66.4





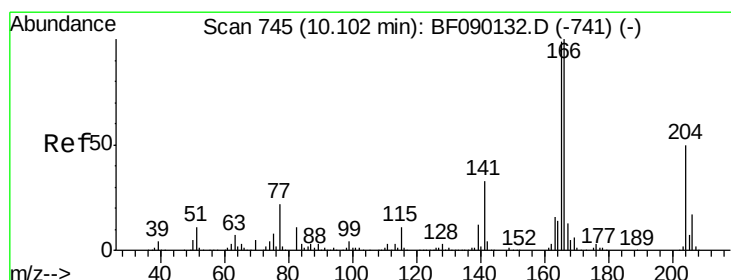
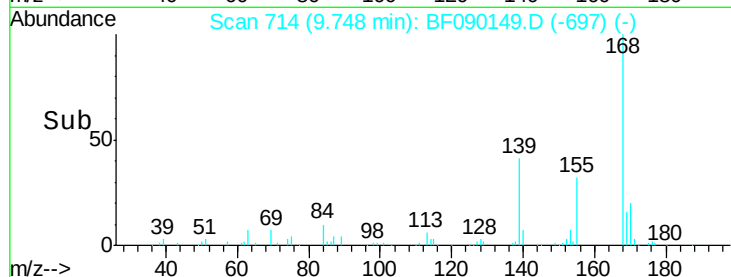
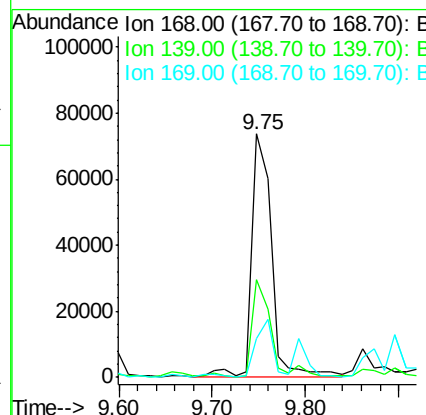
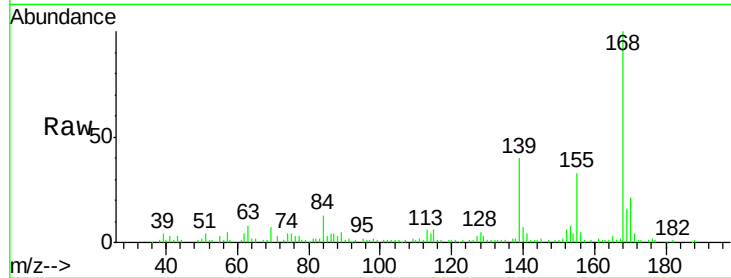
#54
Dibenzenofuran
Concen: 5.34 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	108391		
139	40.3	28.8	43.2	
169	15.7	10.7	16.1	

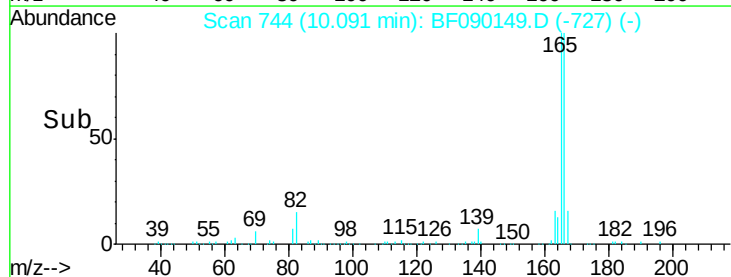
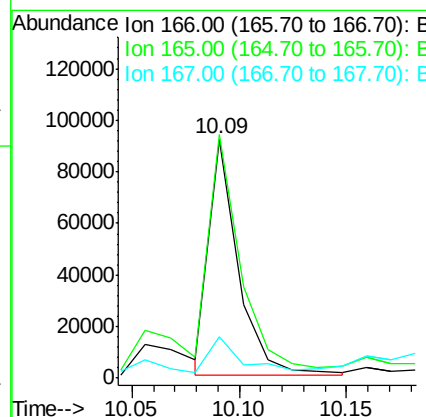
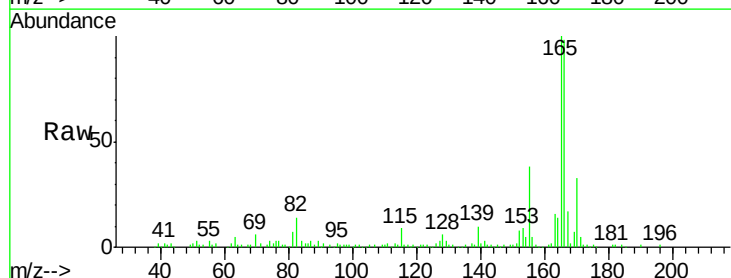
Manual Integrations
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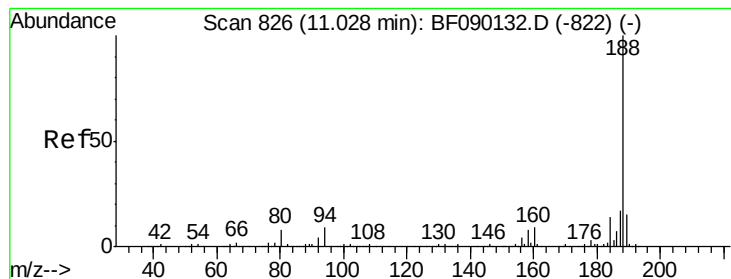
sohil
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#57
Fluorene
Concen: 5.83 ng m
RT: 10.09 min Scan# 744
Delta R.T. -0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	89255		
165	101.9	78.5	117.7	
167	17.5	11.2	16.8#	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.02 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

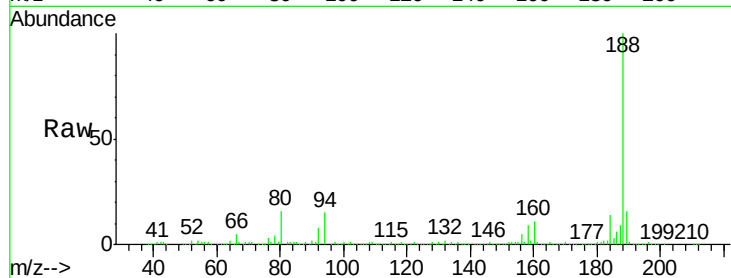
ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:	188	Resp:	382563
Ion Ratio	Lower	Upper	
188	100		
94	14.8	10.5	15.7
80	15.8	11.2	16.8

Manual Integrations
APPROVED

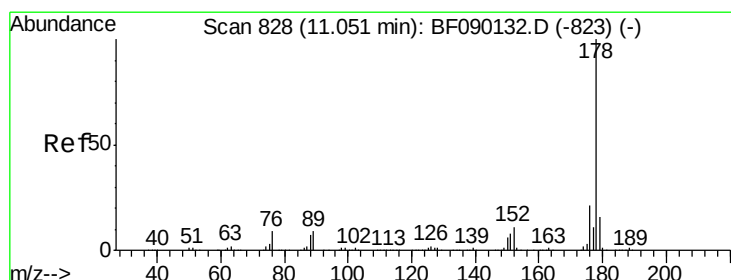
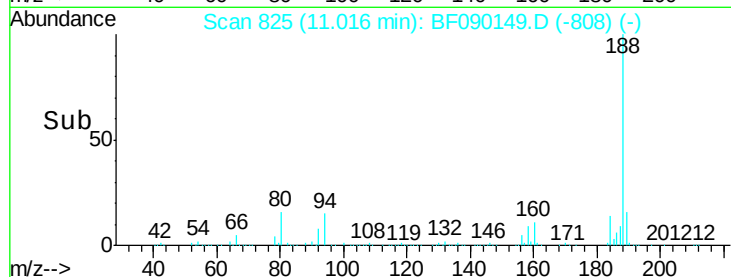
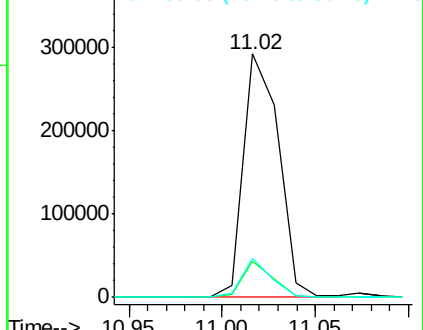
sohil
9/21/2016 4:16:00 PM



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: 100.45 ng

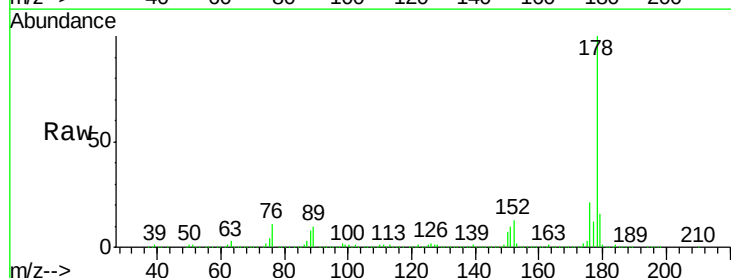
RT: 11.05 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

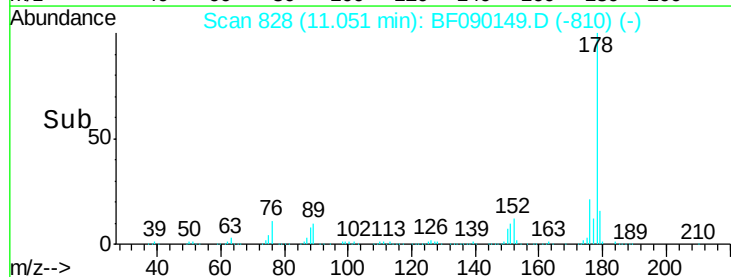
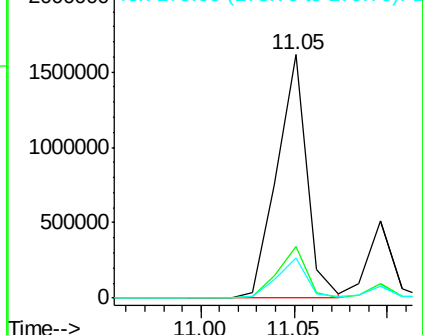
Tgt Ion:	178	Resp:	1797116
Ion Ratio	Lower	Upper	
178	100		
176	21.2	15.9	23.9
179	16.3	12.9	19.3

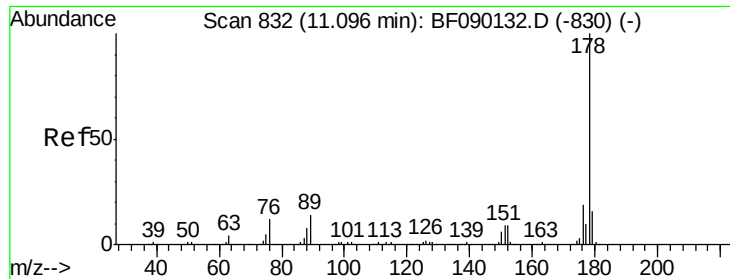


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





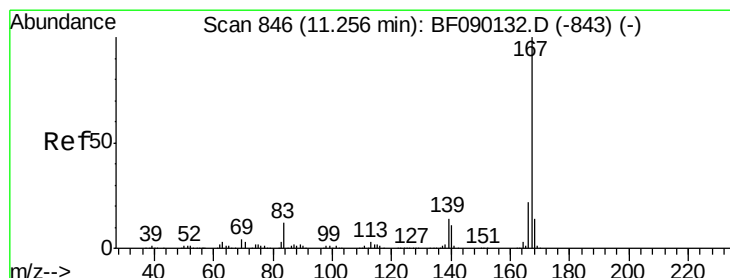
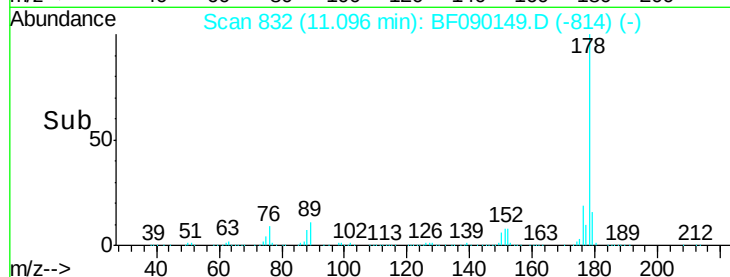
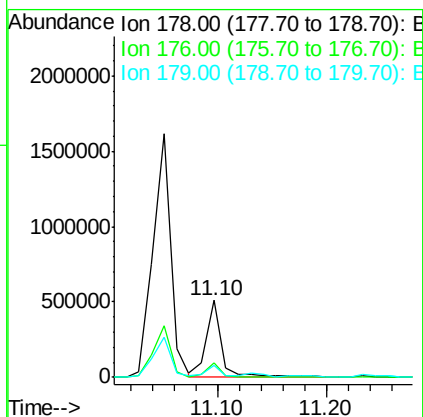
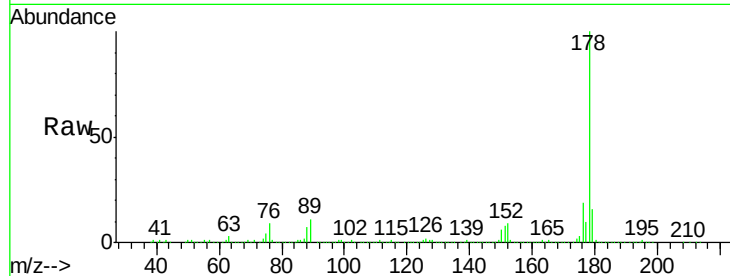
#71
 Anthracene
 Concen: 26.54 ng
 RT: 11.10 min Scan# 832
 Delta R.T. 0.00 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.6
179	15.8	12.6	19.0

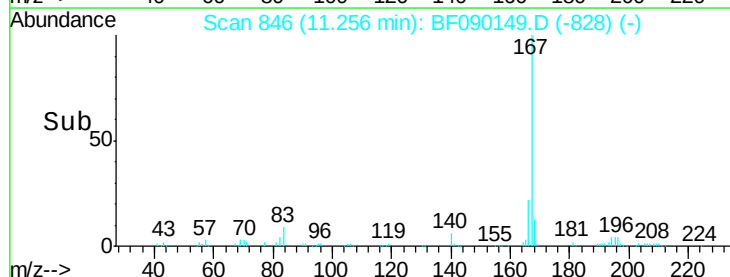
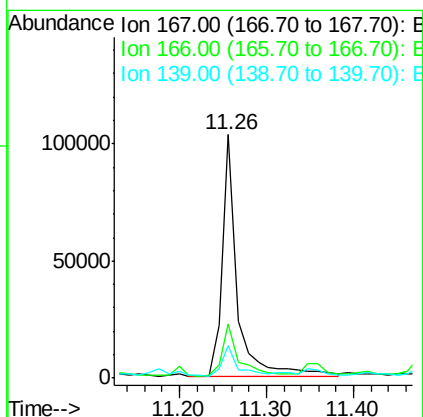
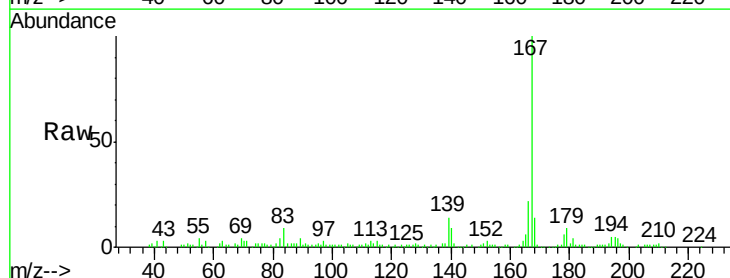
Manual Integrations
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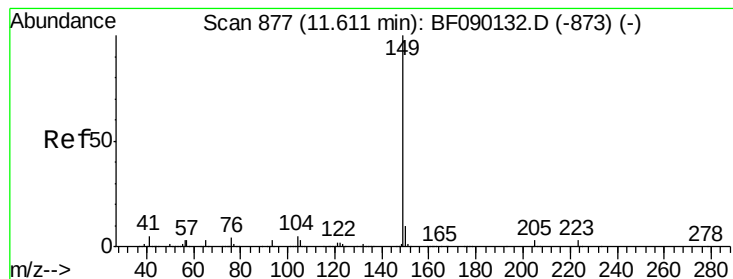
sohil
 9/21/2016 4:16:00 PM



#72
 Carbazole
 Concen: 6.38 ng
 RT: 11.26 min Scan# 846
 Delta R.T. 0.00 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.0	27.0
139	13.6	10.4	15.6





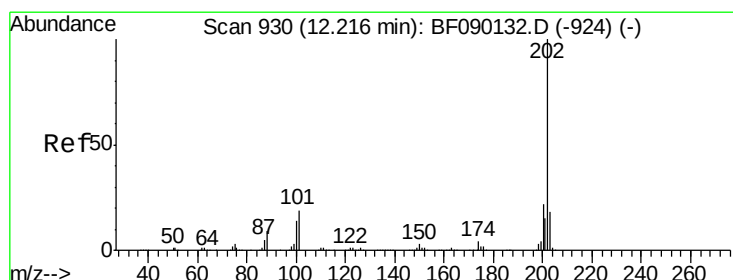
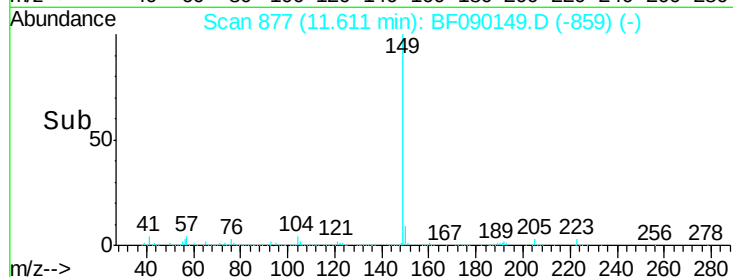
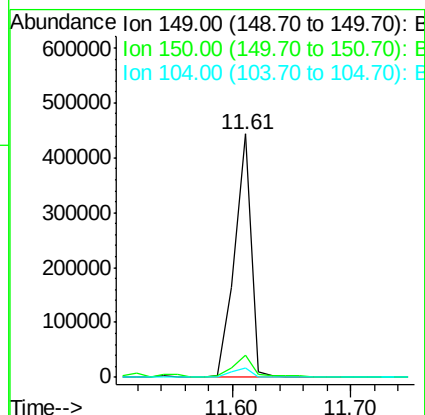
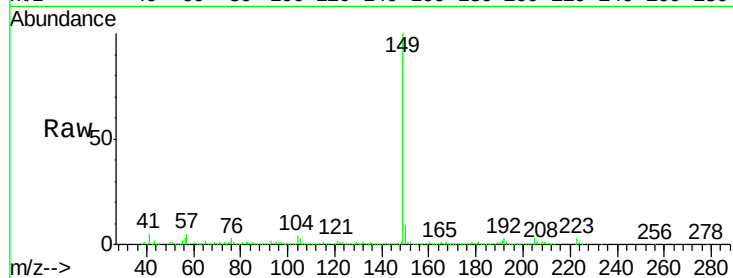
#73
Di-n-butylphthalate
Concen: 18.45 ng
RT: 11.61 min Scan# 877
Delta R.T. 0.00 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Resp Lower	Upper
149	100		
150	9.1	7.8	11.8
104	3.8	3.9	5.9

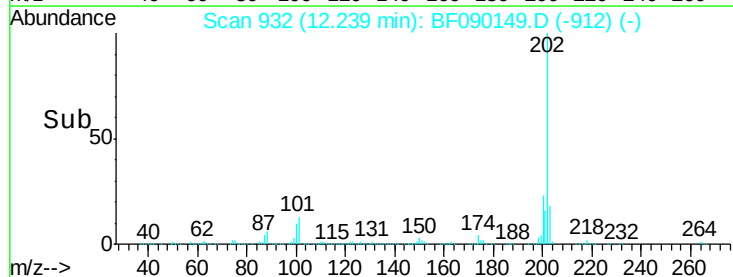
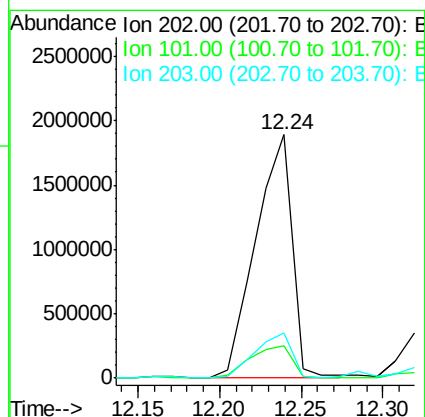
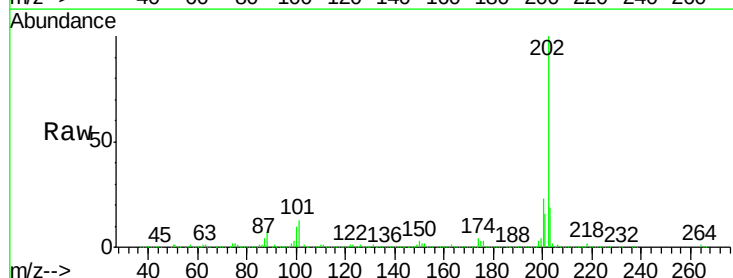
Manual Integrations
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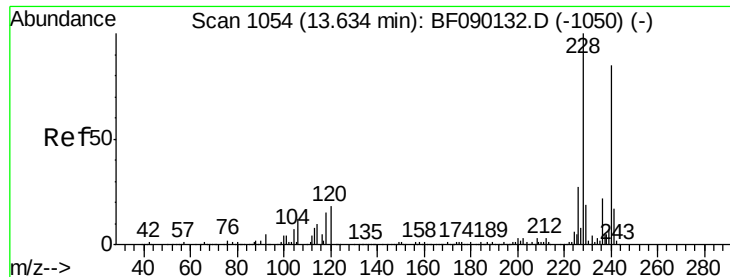
sohil
9/21/2016 4:16:00 PM



#74
Fluoranthene
Concen: 152.13 ng
RT: 12.24 min Scan# 932
Delta R.T. 0.02 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	13.4	0.0	36.1
203	18.5	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.65 min Scan# 1055

Delta R.T. 0.01 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

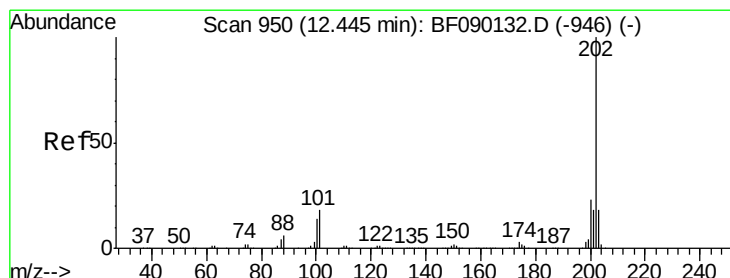
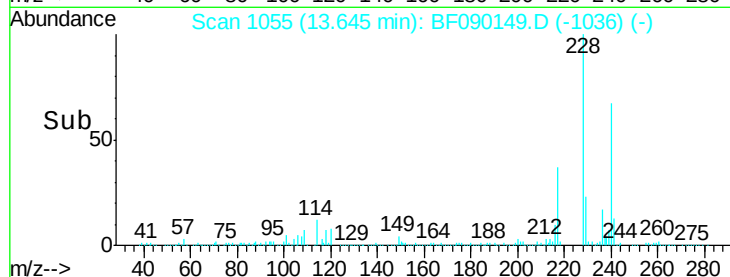
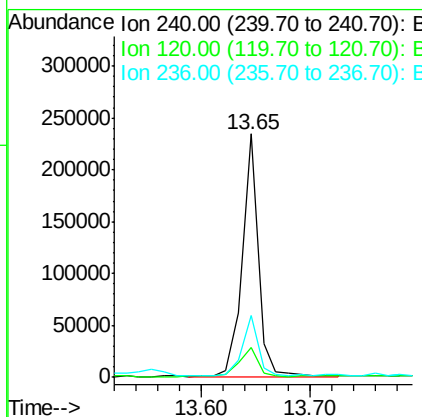
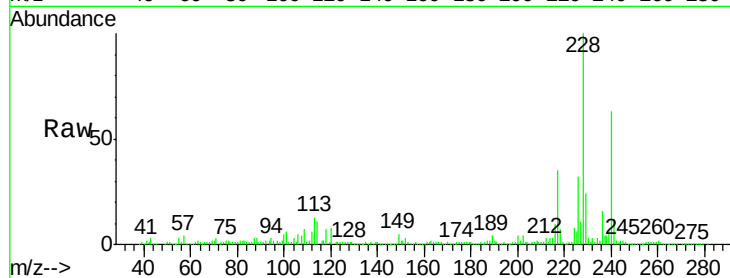
ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:	240	Resp:	238893
Ion Ratio	Lower	Upper	
240	100		
120	12.3	10.6	16.0
236	25.6	21.6	32.4

Manual Integrations
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#77

Pyrene

Concen: 180.35 ng

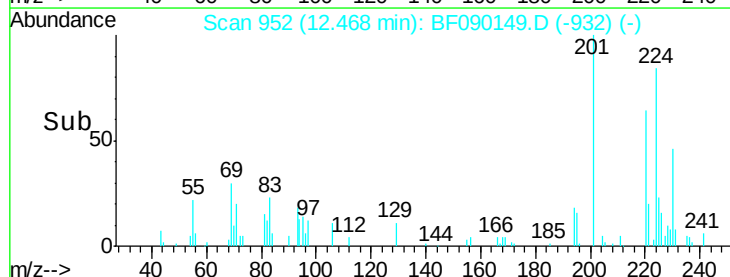
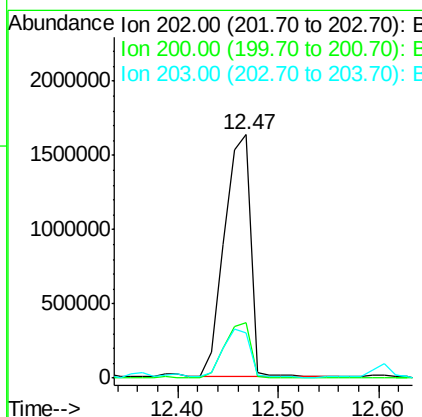
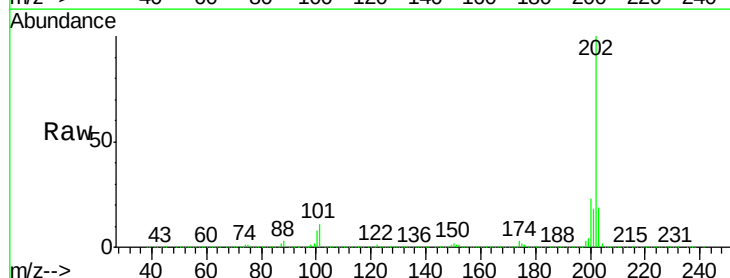
RT: 12.47 min Scan# 952

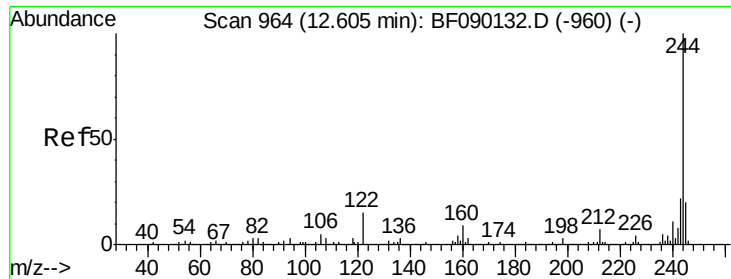
Delta R.T. 0.02 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Tgt Ion:	202	Resp:	2948131
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.9	26.9
203	18.5	14.2	21.4





#78

Terphenyl-d14

Concen: 75.72 ng

RT: 12.61 min Scan# 964

Delta R.T. 0.00 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

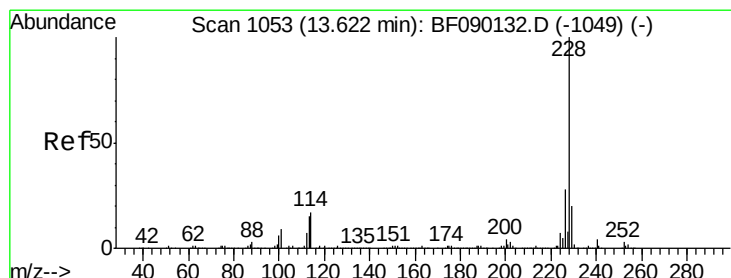
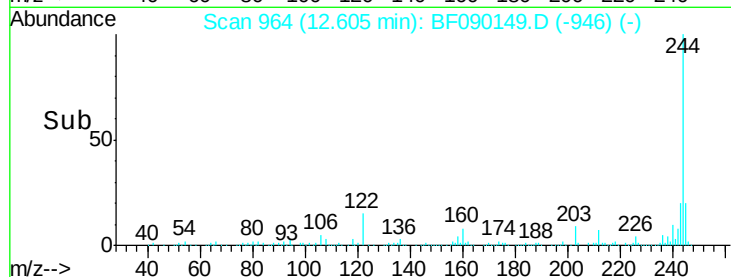
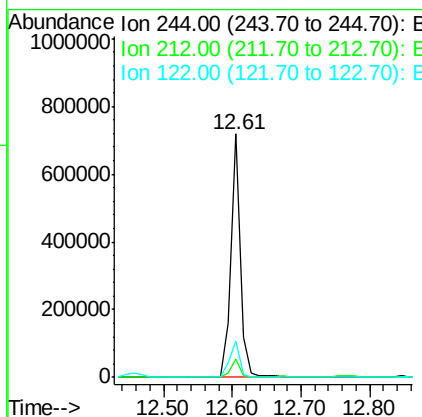
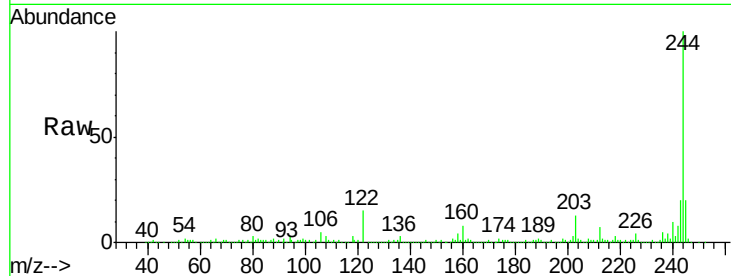
ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:	244	Resp:	712511
Ion Ratio	Lower	Upper	
244	100		
212	7.3	5.8	8.8
122	14.8	9.4	14.0#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 102.61 ng m

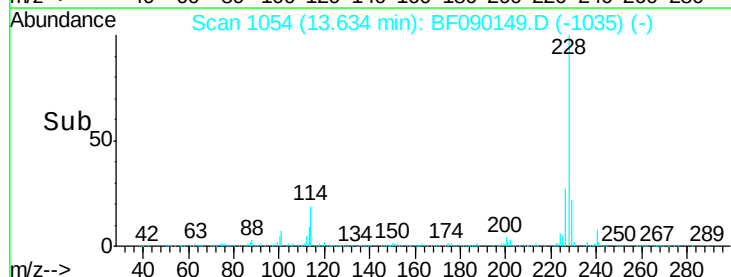
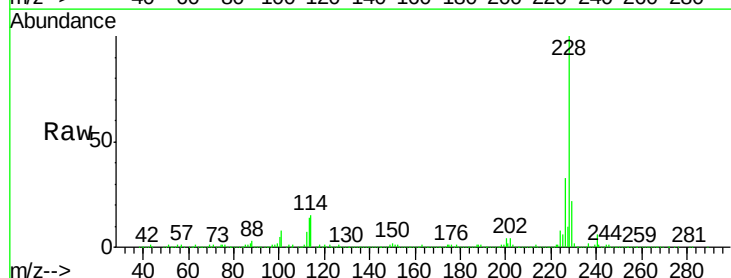
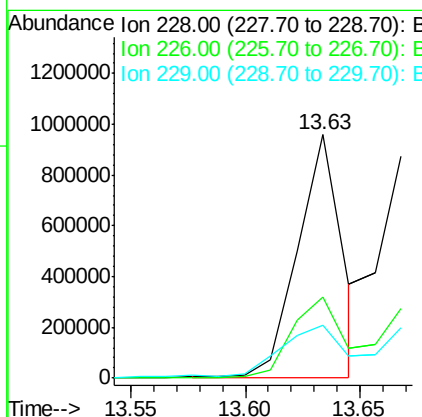
RT: 13.63 min Scan# 1054

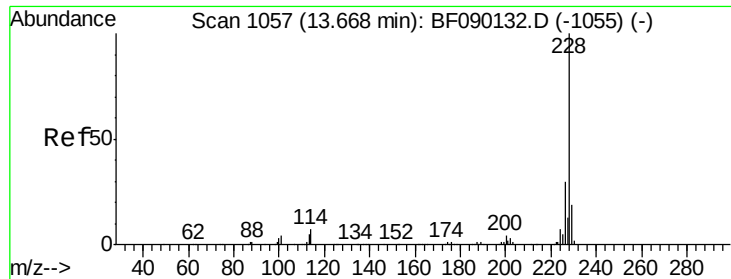
Delta R.T. 0.01 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Tgt Ion:	228	Resp:	1318825
Ion Ratio	Lower	Upper	
228	100		
226	33.4	22.0	33.0#
229	21.8	16.2	24.2





#82

Chrysene

Concen: 121.64 ng m

RT: 13.67 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:228 Resp: 1522972

Ion Ratio Lower Upper

228 100

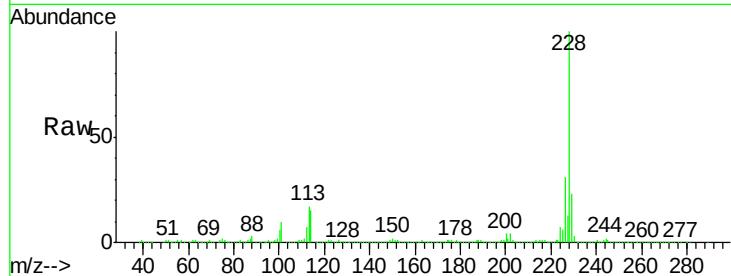
226 31.2 24.6 37.0

229 22.6 16.2 24.4

Manual Integrations
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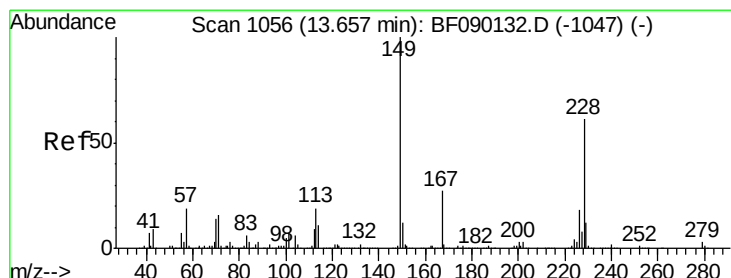
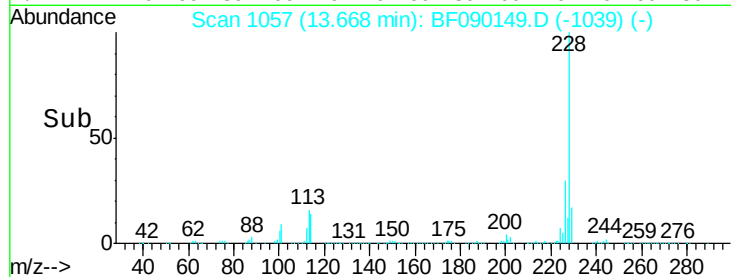
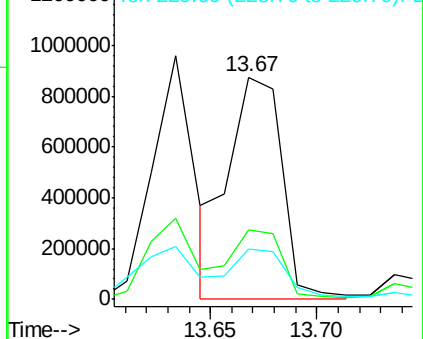
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 9.02 ng

RT: 13.66 min Scan# 1056

Delta R.T. 0.00 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

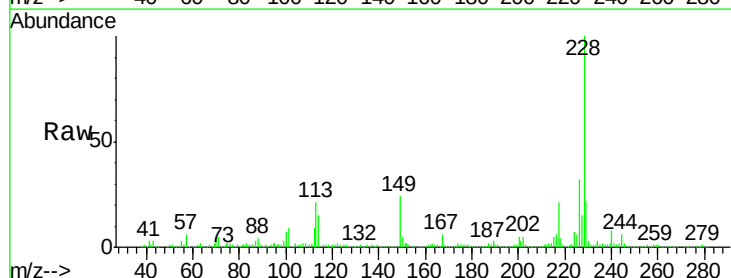
Tgt Ion:149 Resp: 92268

Ion Ratio Lower Upper

149 100

167 25.9 21.2 31.8

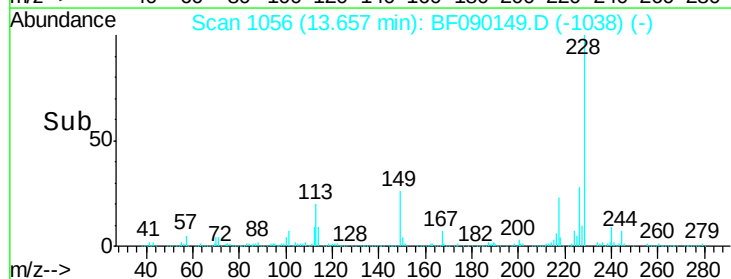
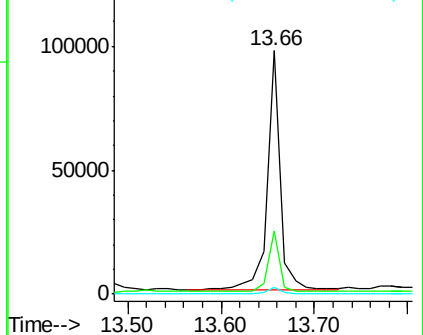
279 2.9 2.2 3.2

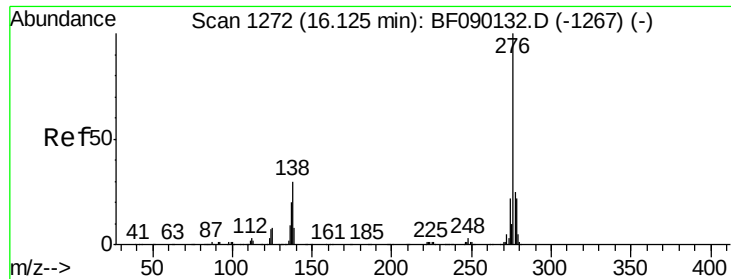


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





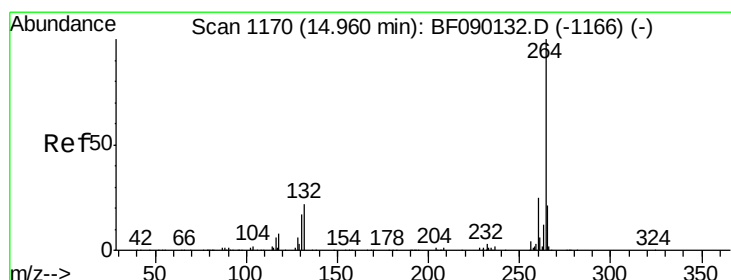
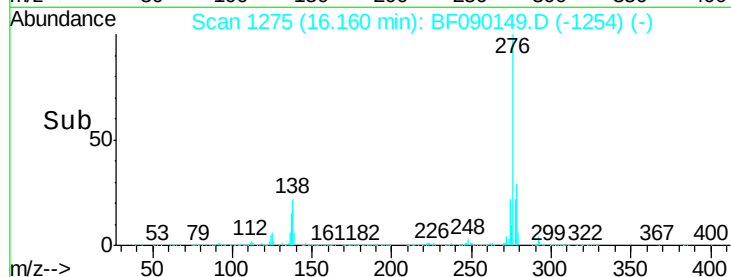
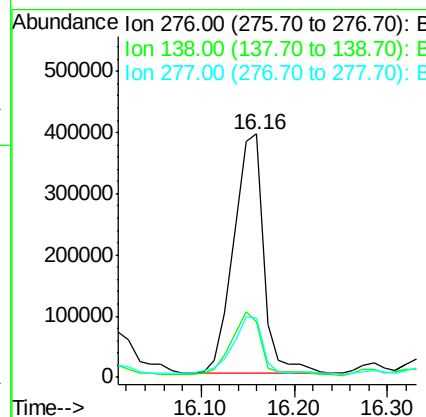
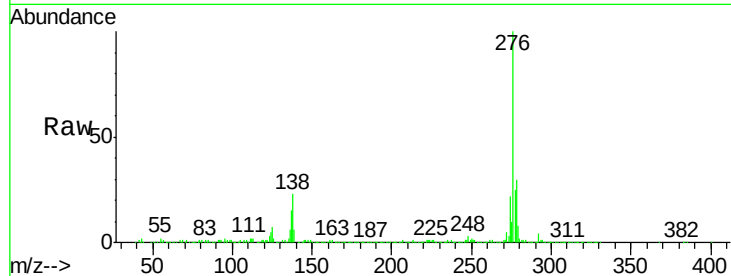
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 86.59 ng
 RT: 16.16 min Scan# 1275
 Delta R.T. 0.03 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	876529		
138	26.4		25.9	38.9
277	23.4		19.9	29.9

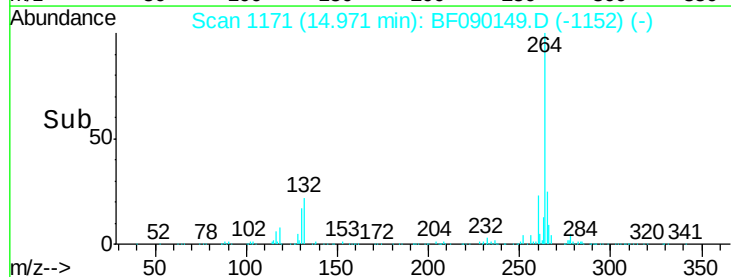
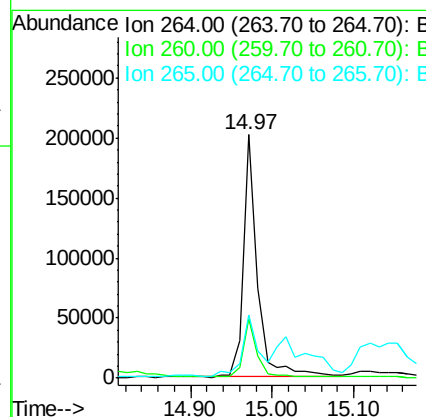
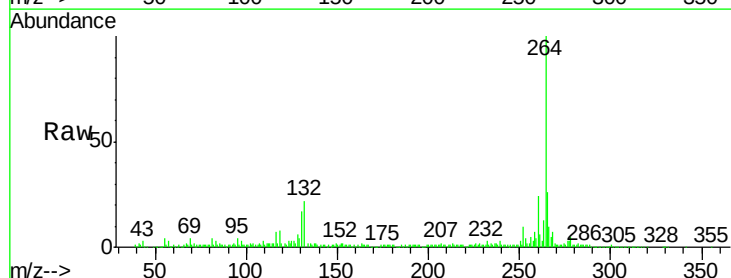
Manual Integrations
 APPROVED

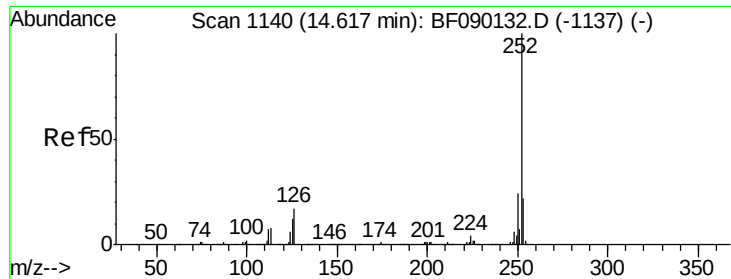
sohil
 9/21/2016 4:16:00 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.97 min Scan# 1171
 Delta R.T. 0.01 min
 Lab File: BF090149.D
 Acq: 20 Sep 2016 22:24

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	244570		
260	24.4		19.5	29.3
265	25.8		17.0	25.4#





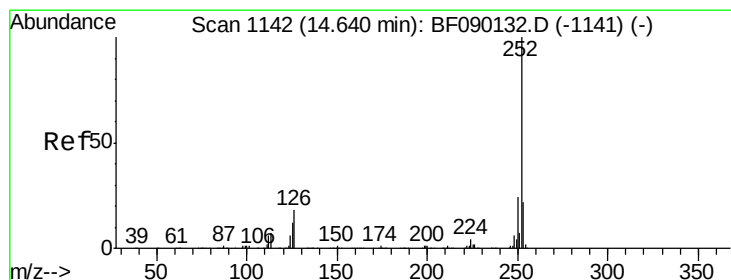
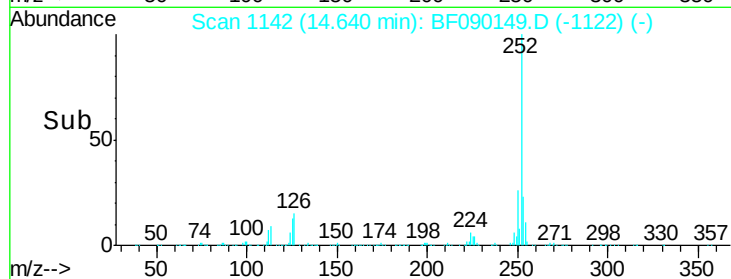
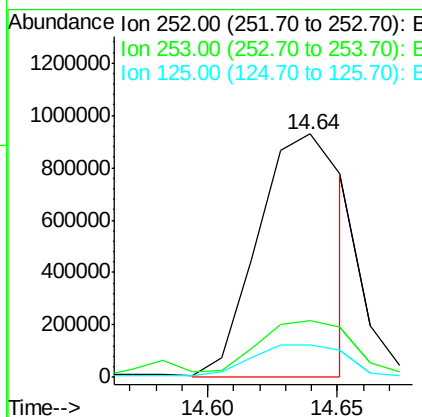
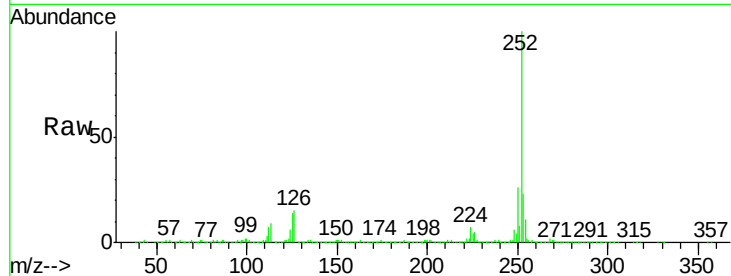
#87
Benzo(b)fluoranthene
Concen: 156.45 ng m
RT: 14.64 min Scan# 1142
Delta R.T. 0.02 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion:252 Resp: 2118760
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 13.5 12.7 19.1

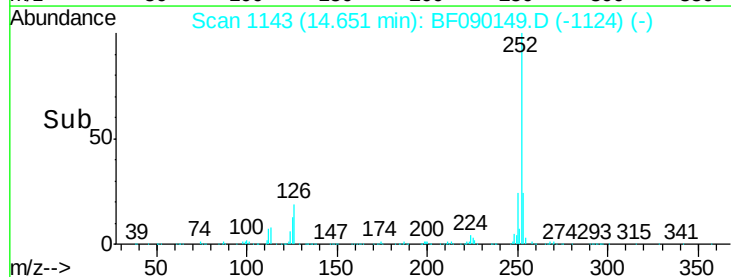
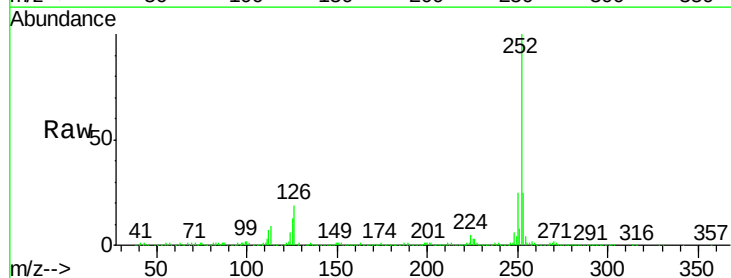
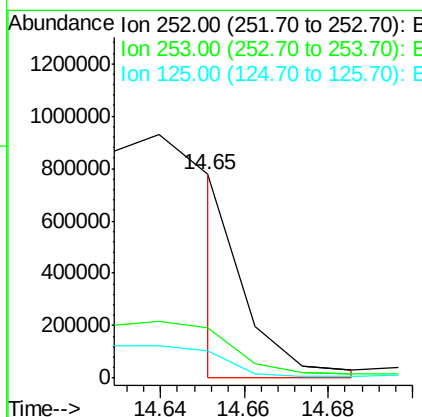
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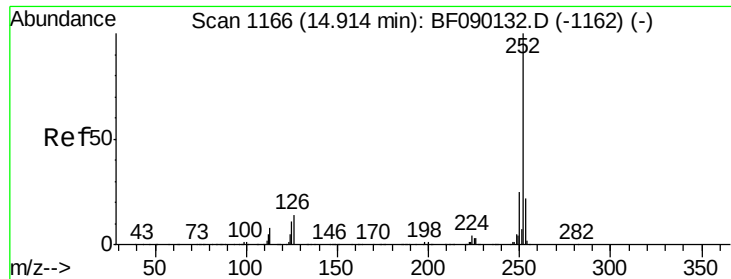
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#88
Benzo(k)fluoranthene
Concen: 14.47 ng m
RT: 14.65 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion:252 Resp: 183857
Ion Ratio Lower Upper
252 100
253 24.7 17.8 26.8
125 13.3 7.8 11.6#





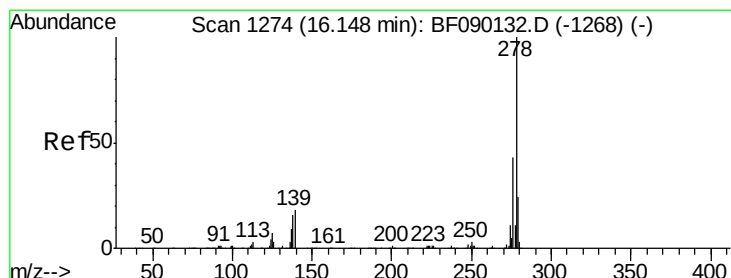
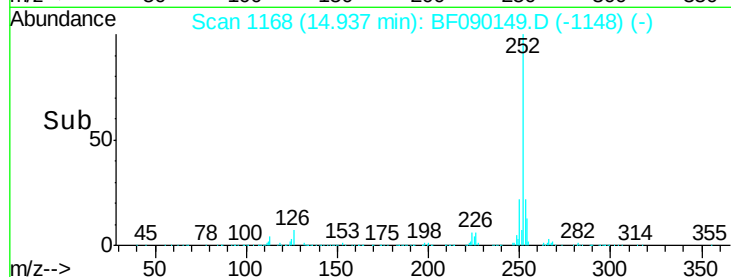
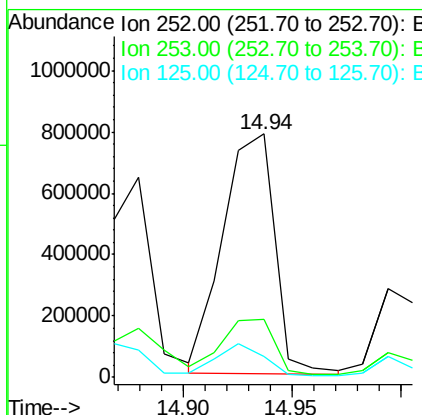
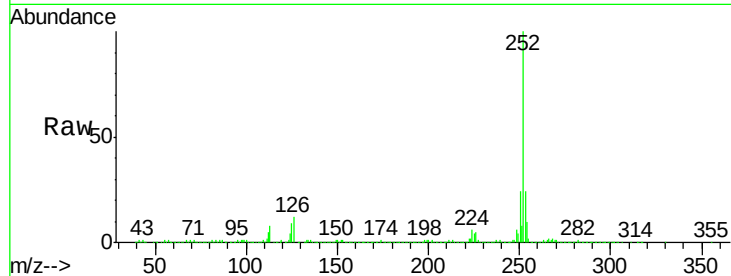
#89
Benzo(a)pyrene
Concen: 101.78 ng
RT: 14.94 min Scan# 1168
Delta R.T. 0.02 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALL

Tgt Ion: 252 Resp: 1296636
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.0
125 8.8 7.7 11.5

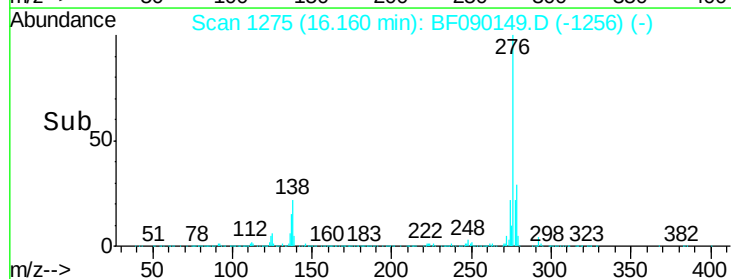
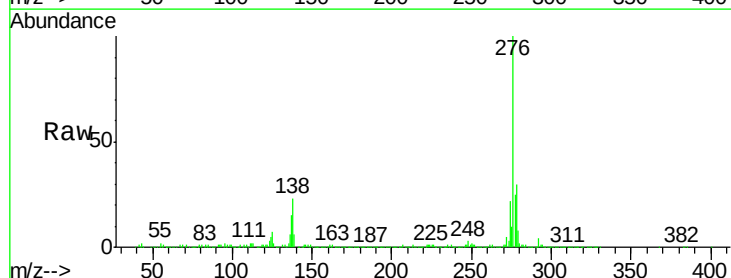
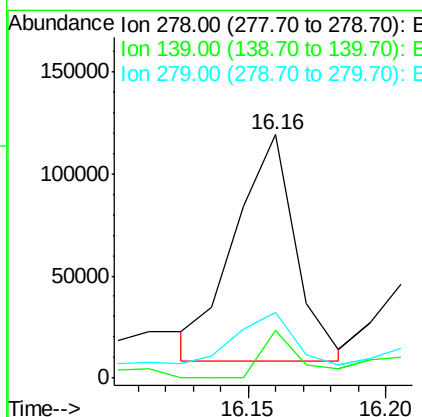
Manual Integrations
APPROVED

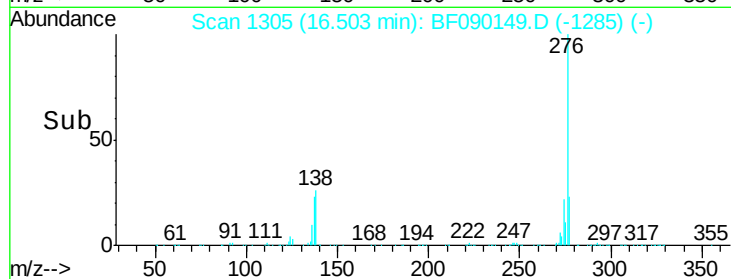
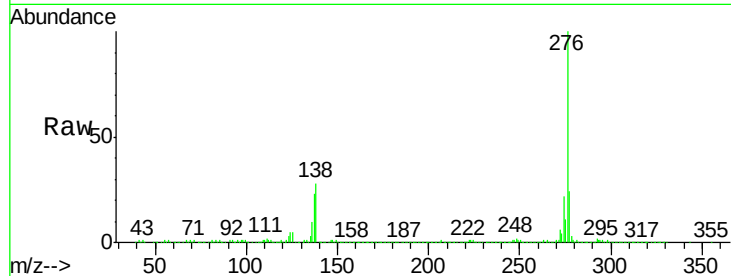
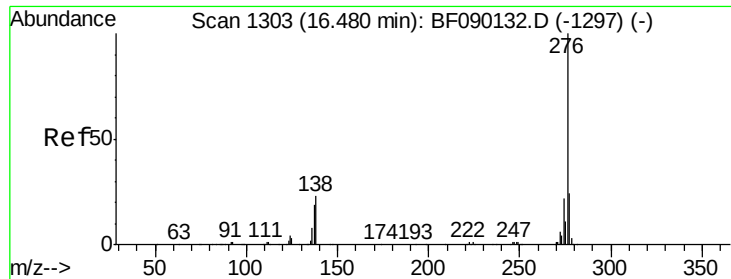
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#90
Dibenzo(a,h)anthracene
Concen: 17.06 ng m
RT: 16.16 min Scan# 1275
Delta R.T. 0.01 min
Lab File: BF090149.D
Acq: 20 Sep 2016 22:24

Tgt Ion: 278 Resp: 169622
Ion Ratio Lower Upper
278 100
139 19.6 14.6 21.8
279 27.1 18.8 28.2





#91

Benzo(g,h,i)perylene

Concen: 88.15 ng

RT: 16.50 min Scan# 1305

Delta R.T. 0.02 min

Lab File: BF090149.D

Acq: 20 Sep 2016 22:24

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALL

Tgt Ion:	276	Resp:	857742
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.9	28.3
138	27.9	23.3	34.9

Manual Integrations
APPROVED

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