

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092616\
 Data File : BF090236.D
 Acq On : 26 Sep 2016 22:01
 Operator : UM/SJ
 Sample : H4895-01RE
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILLRE

Manual Integrations
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Quant Time: Sep 27 01:43:44 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 26 15:58:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	146572	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	573943	20.00	ng	0.00
38) Acenaphthene-d10	9.51	164	304539	20.00	ng	0.00
63) Phenanthrene-d10	10.97	188	406846	20.00	ng	-0.01
75) Chrysene-d12	13.59	240	282057	20.00	ng	-0.01
86) Perylene-d12	14.91	264	253328	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	247372	27.51	ng	0.00
7) Phenol-d6	6.14	99	903521	81.36	ng	0.00
23) Nitrobenzene-d5	7.05	82	670187	67.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.30	330	9819	3.76	ng	0.00
44) 2-Fluorobiphenyl	8.84	172	1084504	69.91	ng	-0.01
78) Terphenyl-d14	12.56	244	752508	67.73	ng	0.00
Target Compounds						
10) Phenol	6.15	94	84951	6.47	ng	Qvalue # 61
31) Naphthalene	7.78	128	125262	4.58	ng	99
37) 2-Methylnaphthalene	8.48	142	54525	3.21	ng	98
49) Dimethylphthalate	9.24	163	356885	18.40	ng	98
51) Acenaphthene	9.54	154	43267	2.79	ng	98
54) Dibenzofuran	9.71	168	73414	3.60	ng	# 96
57) Fluorene	10.04	166	74224	4.83	ng	# 96
70) Phenanthrene	11.00	178	461331	24.25	ng	99
71) Anthracene	11.05	178	148702	7.45	ng	98
72) Carbazole	11.21	167	52372	2.48	ng	94
74) Fluoranthene	12.17	202	353917	17.33	ng	97
77) Pylene	12.40	202	308363	15.98	ng	98
80) Benzo(a)anthracene	13.58	228	138473	9.13	ng	96
82) Chrysene	13.61	228	102330m	6.92	ng	
83) Bis(2-ethylhexyl)phthalate	13.61	149	33949	2.81	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.07	276	43031m	3.60	ng	
87) Benzo(b)fluoranthene	14.57	252	115456m	8.23	ng	
88) Benzo(k)fluoranthene	14.58	252	53233m	4.04	ng	
89) Benzo(a)pyrene	14.87	252	89898	6.81	ng	# 83
91) Benzo(a,h,i)perylene	16.41	276	46707	4.63	ng	95

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

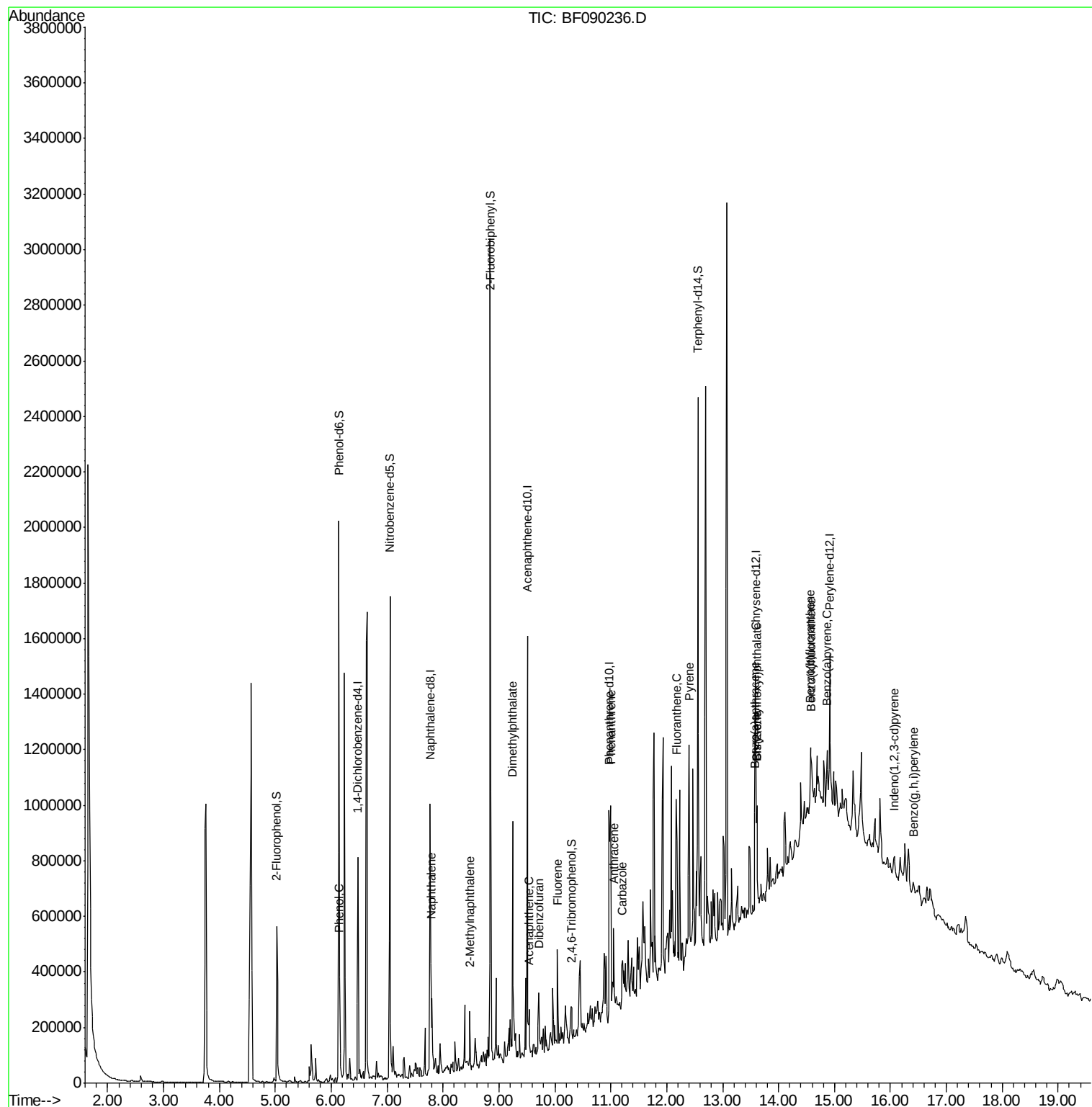
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092616\
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#1

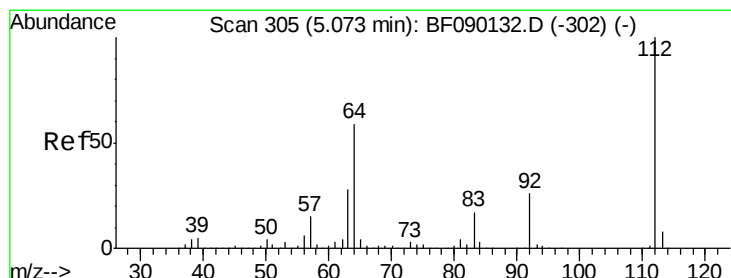
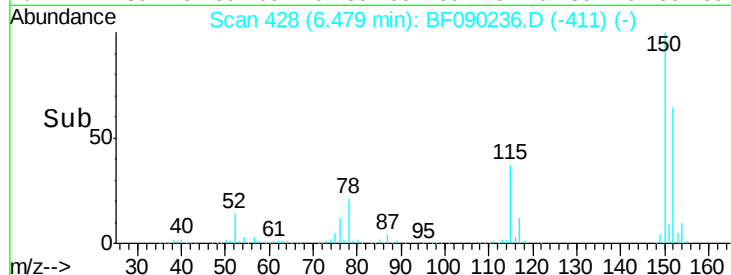
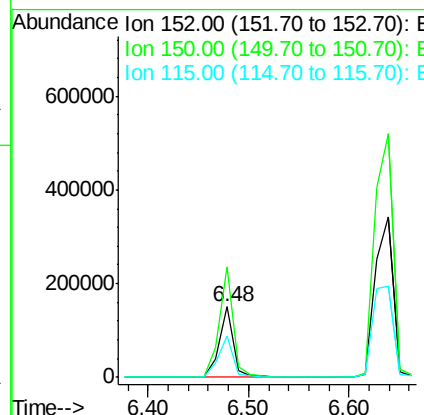
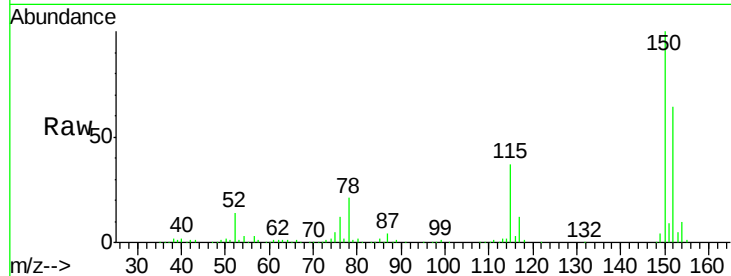
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.48 min Scan# 428
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.9	193.3
115	58.0	55.5	83.3

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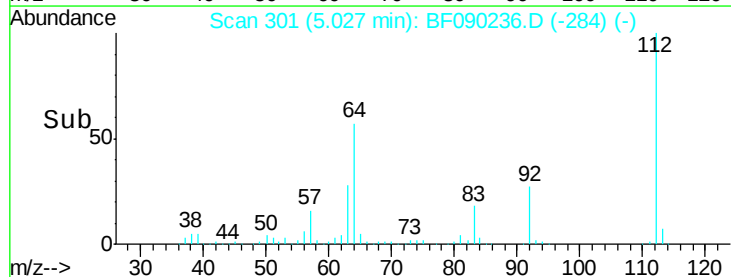
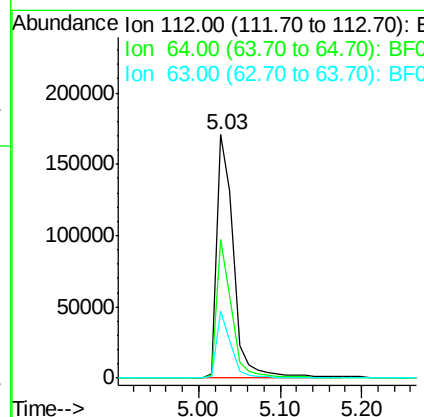
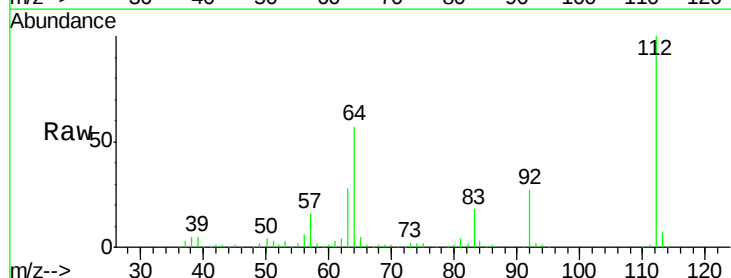
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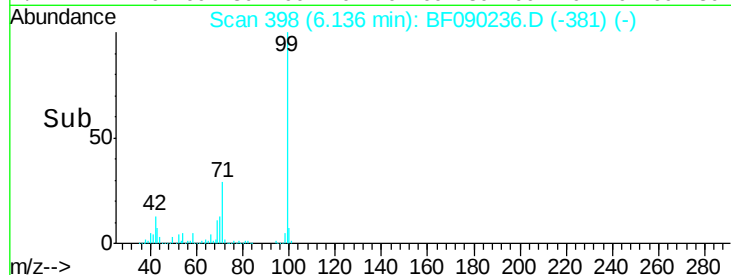
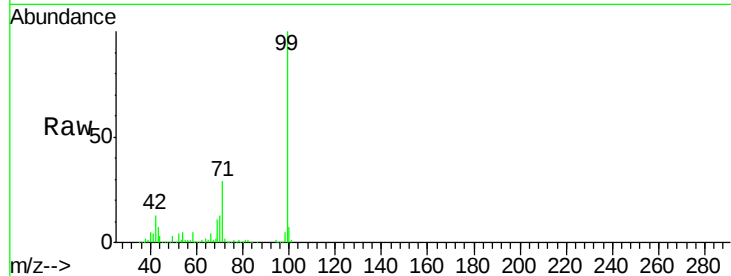
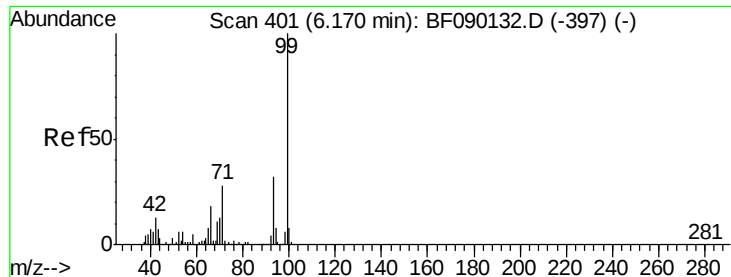


#5

2-Fluorophenol
Concen: 27.51 ng
RT: 5.03 min Scan# 301
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	39.8	59.6
63	27.8	18.9	28.3





#7

Phenol-d6

Concen: 81.36 ng

RT: 6.14 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tot Ion:	99	Resp:	903521
Ion Ratio	Lower	Upper	
99	100		
42	12.6	10.6	15.8
71	29.2	23.0	34.6

Instrument :

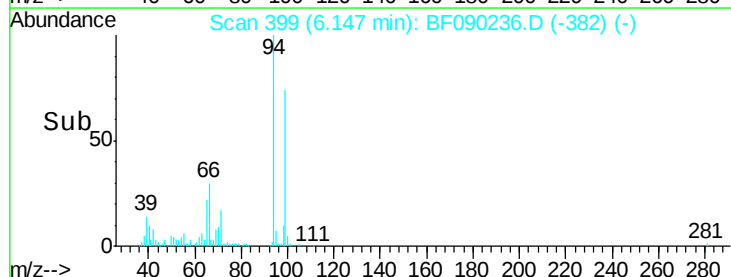
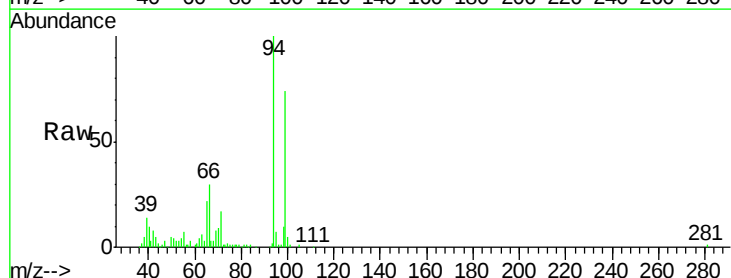
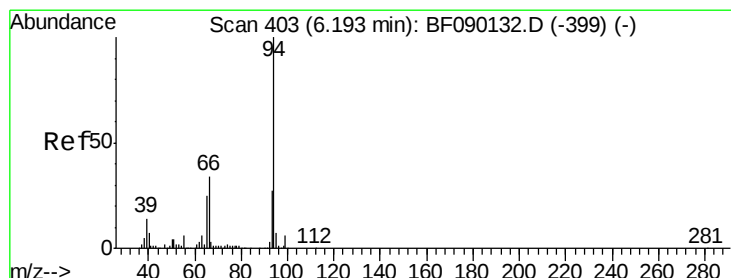
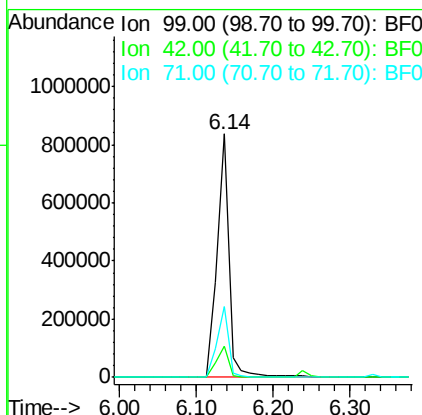
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 6.47 ng

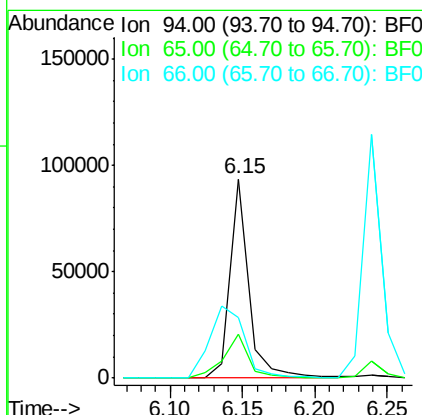
RT: 6.15 min Scan# 399

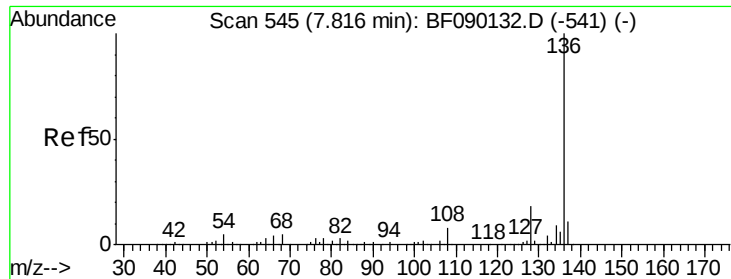
Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion:	94	Resp:	84951
Ion Ratio	Lower	Upper	
94	100		
65	21.9	20.6	60.6
66	30.5	45.1	85.1#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 541

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

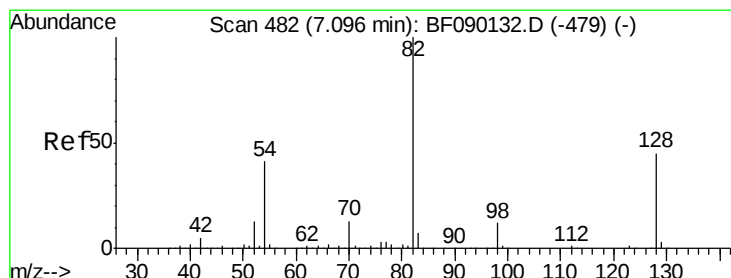
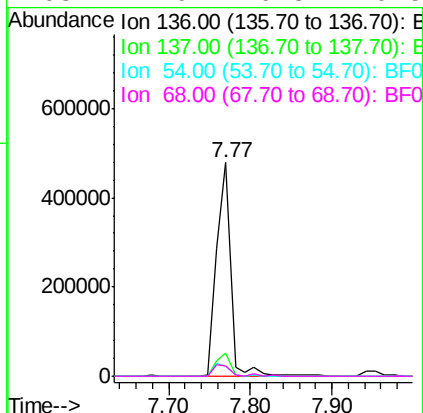
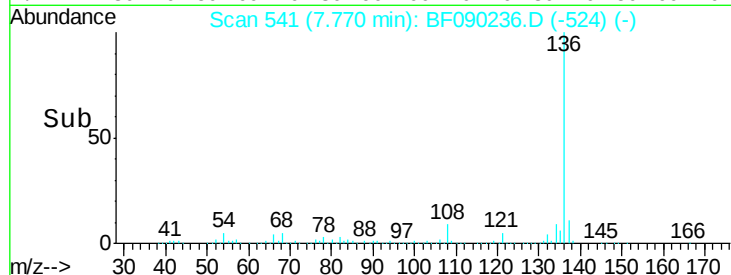
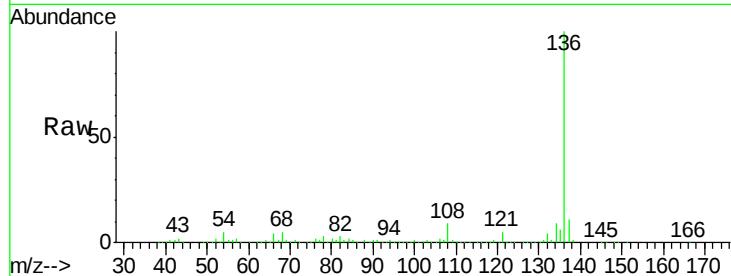
ClientSampleId :

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Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.6	9.0	13.4	
54	4.8	6.4	9.6	
68	4.9	6.3	9.5	

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#23

Nitrobenzene-d5

Concen: 67.69 ng

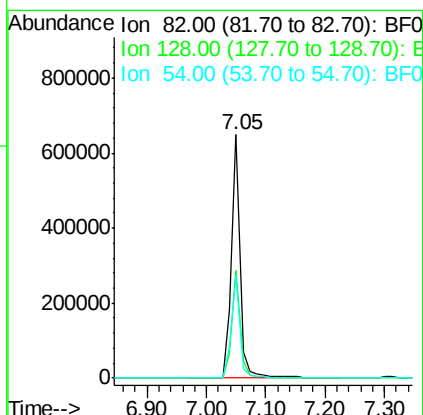
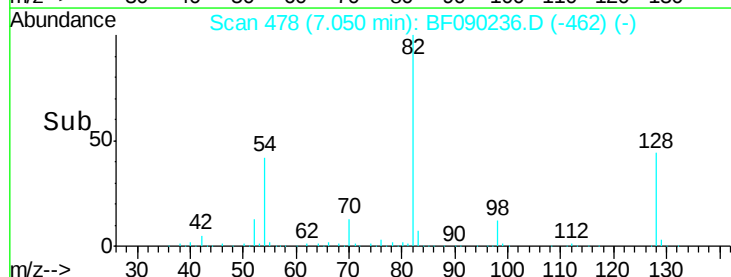
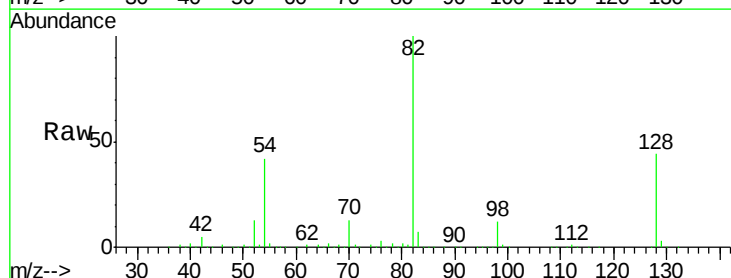
RT: 7.05 min Scan# 478

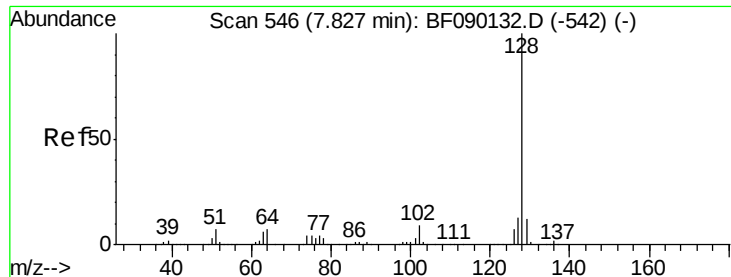
Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	44.1	37.5	56.3	
54	42.0	31.9	47.9	





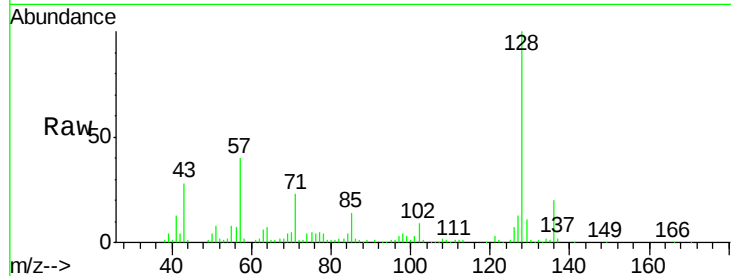
#31
Naphthalene
Concen: 4.58 ng
RT: 7.78 min Scan# 542
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

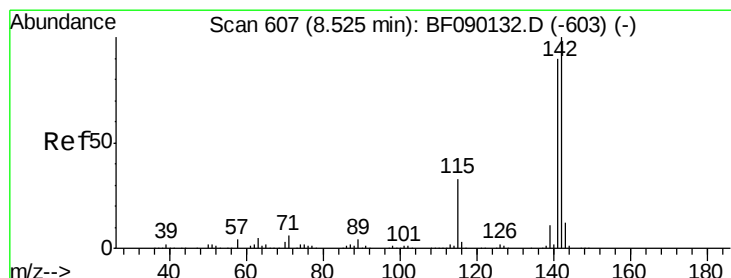
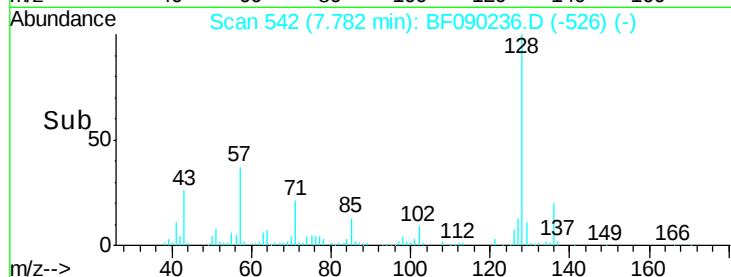
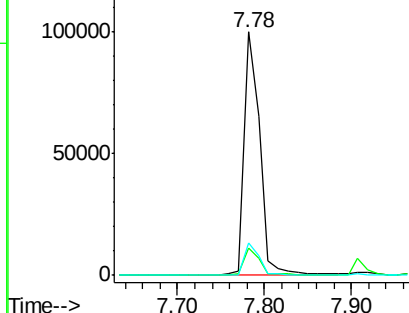
Tot Ion:128	Resp:	125262
Ion Ratio	Lower	Upper
128 100		
129 11.0	9.3	13.9
127 13.1	10.8	16.2

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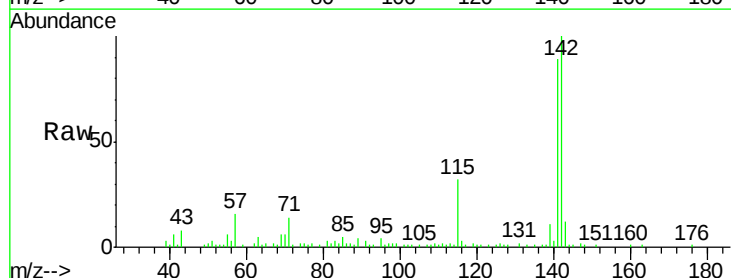


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

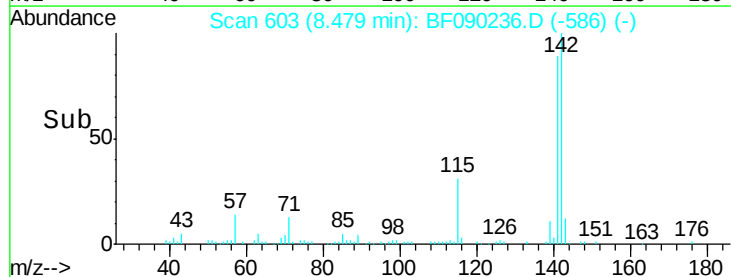
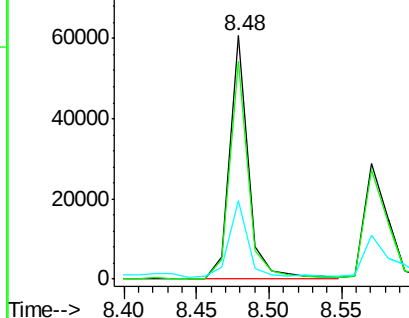


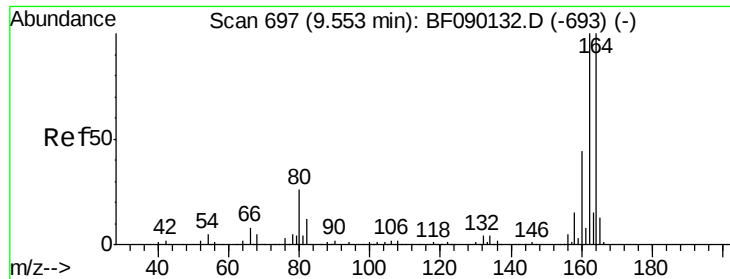
#37
2-Methylnaphthalene
Concen: 3.21 ng
RT: 8.48 min Scan# 603
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion:142	Resp:	54525
Ion Ratio	Lower	Upper
142 100		
141 89.3	71.4	107.2
115 32.1	28.3	42.5



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: 9.51 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

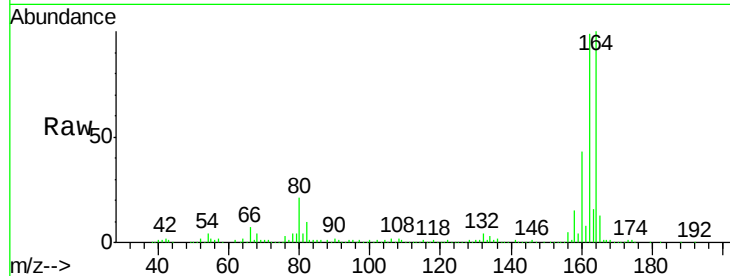
ClientSampleId :

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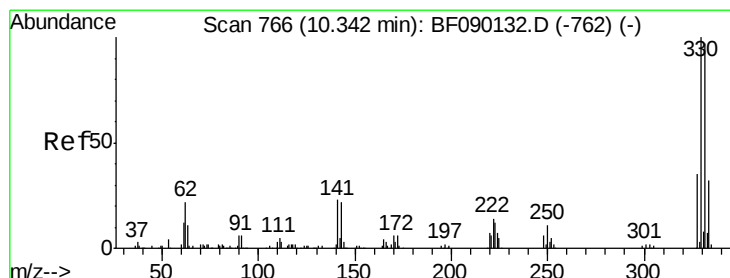
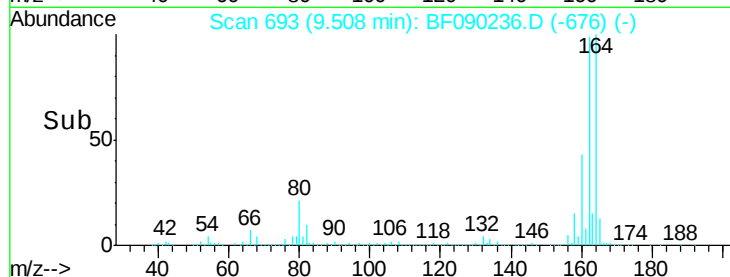
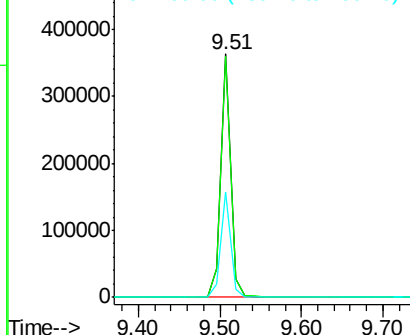
Tot Ion:	164	Resp:	304539
Ion Ratio	Lower	Upper	
164	100		
162	98.9	81.4	122.2
160	43.3	36.6	54.8

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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: 3.76 ng

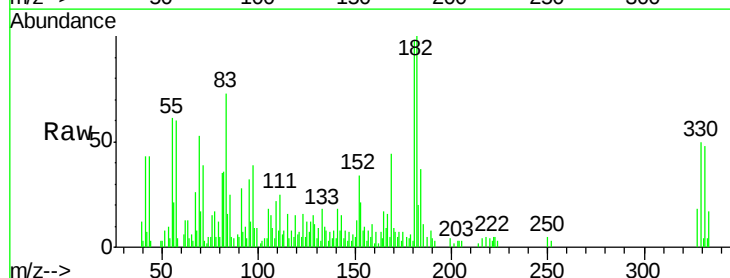
RT: 10.30 min Scan# 762

Delta R.T. -0.00 min

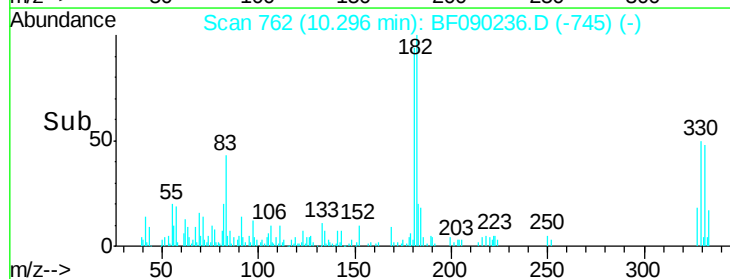
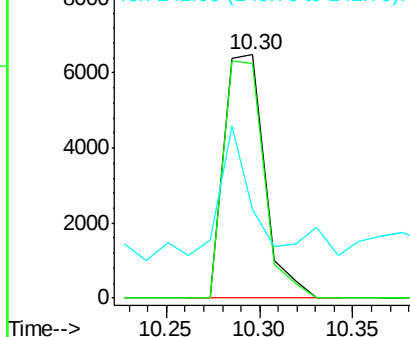
Lab File: BF090236.D

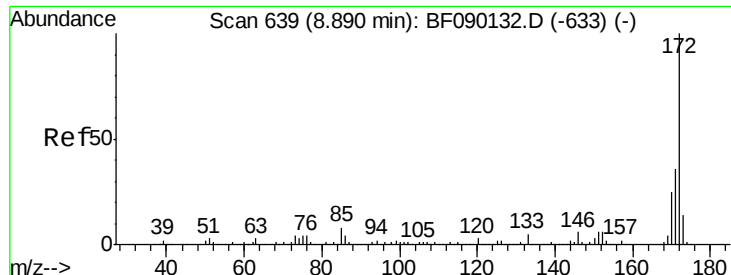
Acq: 26 Sep 2016 22:01

Tgt Ion:	330	Resp:	9819
Ion Ratio	Lower	Upper	
330	100		
332	97.0	78.1	117.1
141	48.7	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





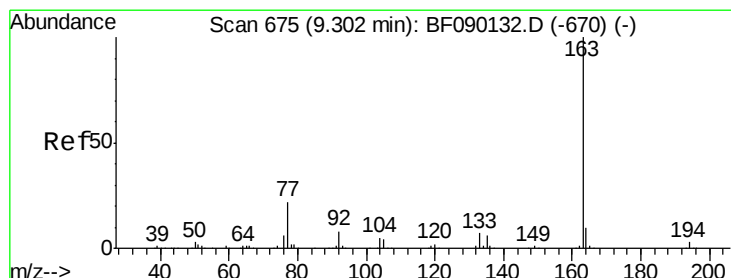
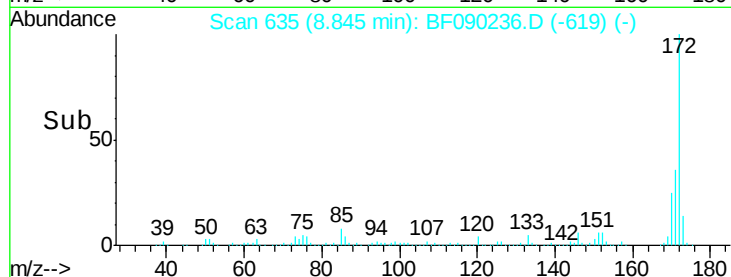
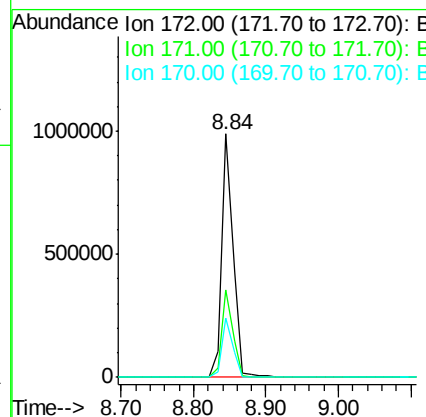
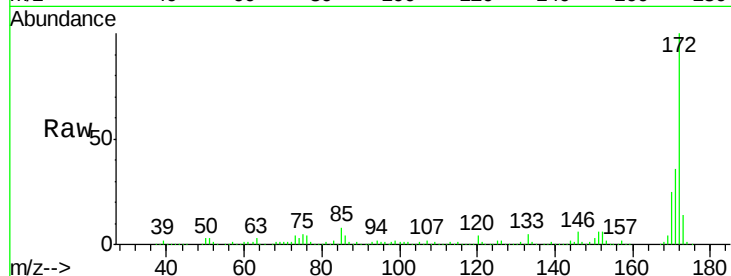
#44
2-Fluorobiphenyl
Concen: 69.91 ng
RT: 8.84 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.2	43.8
170	24.6	19.8	29.8

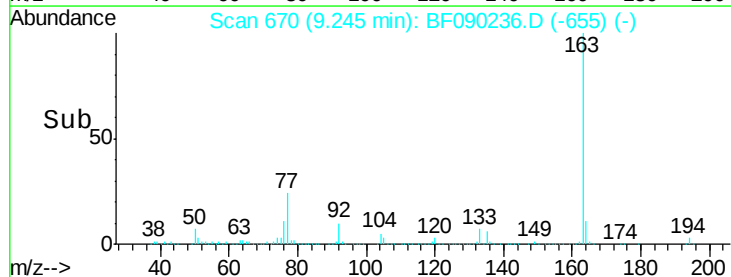
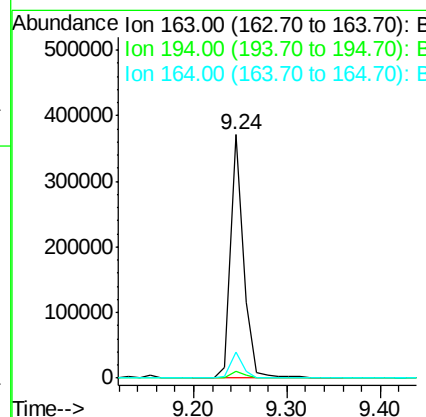
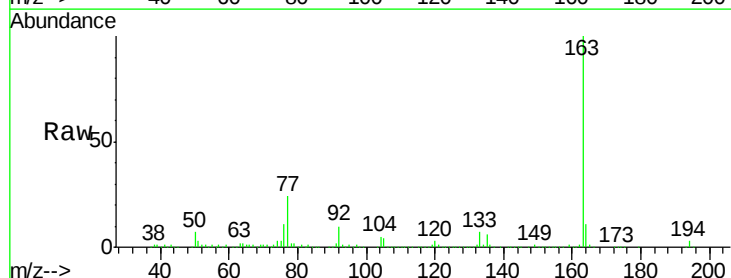
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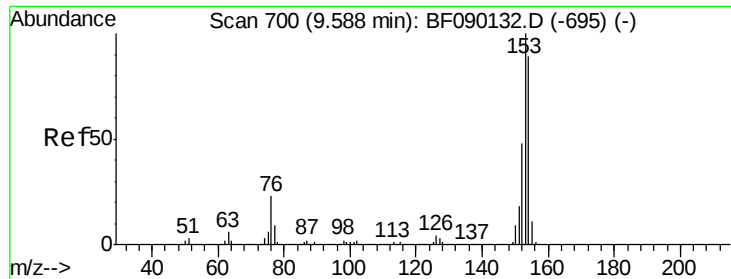
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#49
Dimethylphthalate
Concen: 18.40 ng
RT: 9.24 min Scan# 670
Delta R.T. -0.02 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.8	4.2
164	10.9	8.1	12.1





#51

Acenaphthene

Concen: 2.79 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

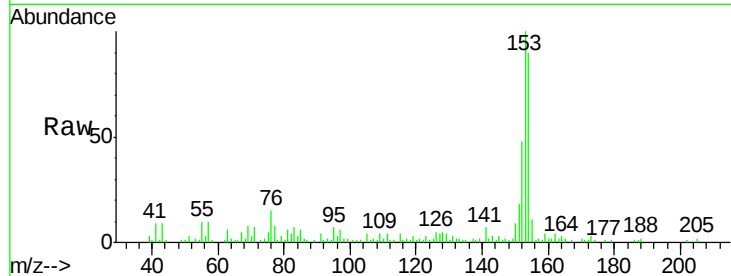
ClientSampleId :

RICHMOND-REC-SELECTFILLRE

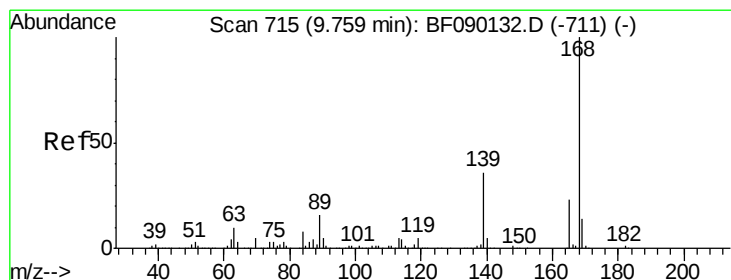
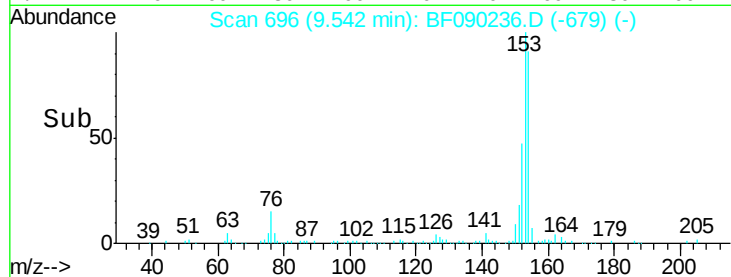
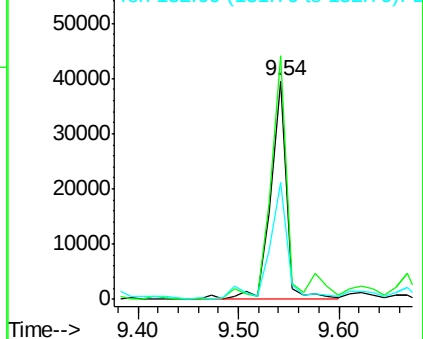
Tot Ion:	154	Resp:	43267
Ion Ratio	Lower	Upper	
154	100		
153	111.4	90.8	136.2
152	53.4	44.2	66.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.60 ng

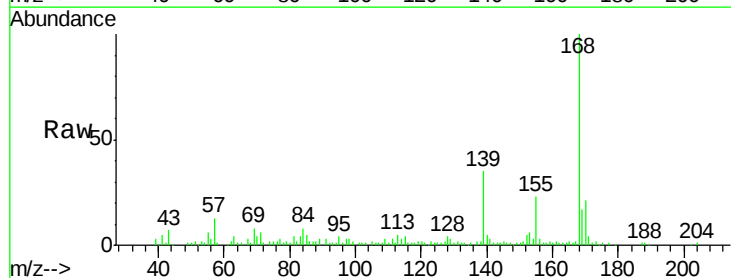
RT: 9.71 min Scan# 711

Delta R.T. -0.00 min

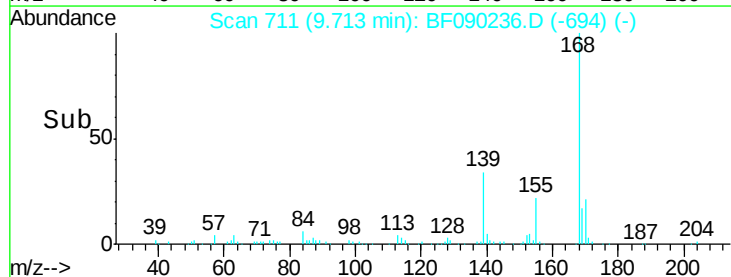
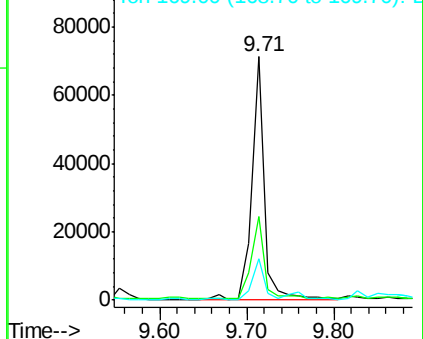
Lab File: BF090236.D

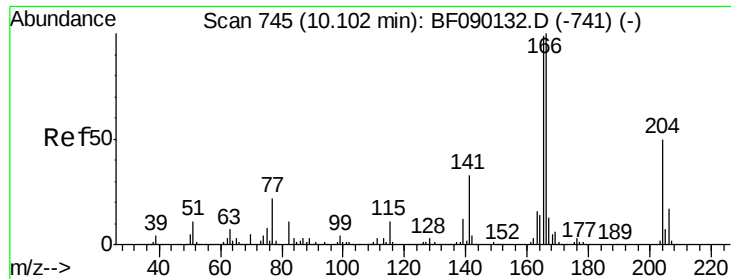
Acq: 26 Sep 2016 22:01

Tgt Ion:	168	Resp:	73414
Ion Ratio	Lower	Upper	
168	100		
139	34.6	28.8	43.2
169	17.0	10.7	16.1#



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





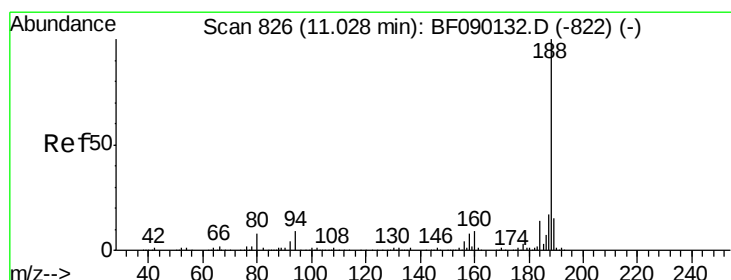
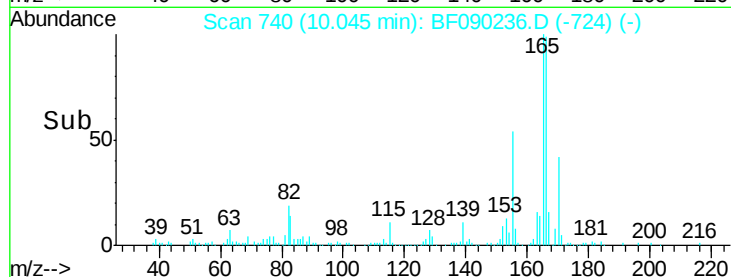
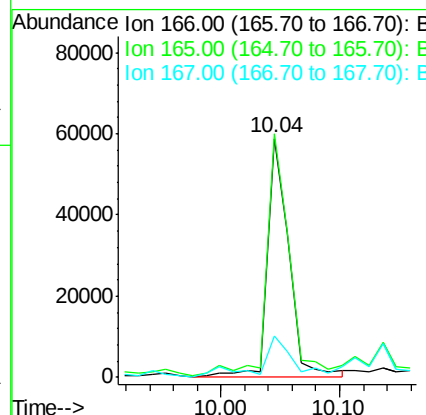
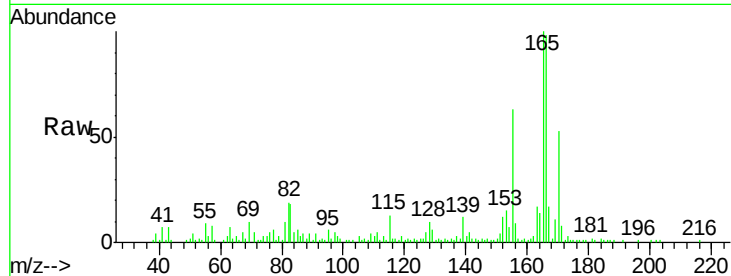
#57
Fluorene
Concen: 4.83 ng
RT: 10.04 min Scan# 740
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	102.1	78.5	117.7	
167	17.1	11.2	16.8	

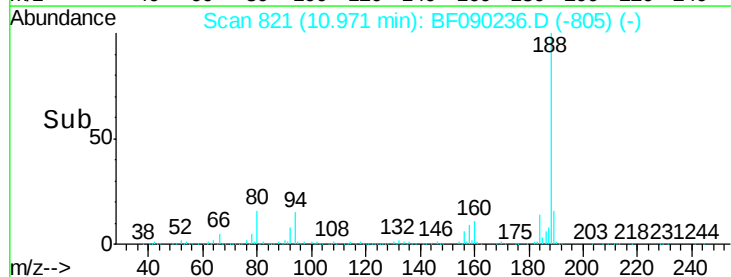
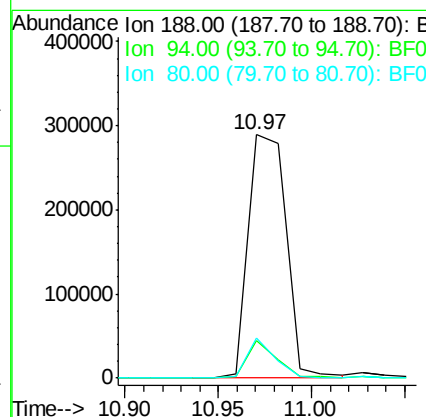
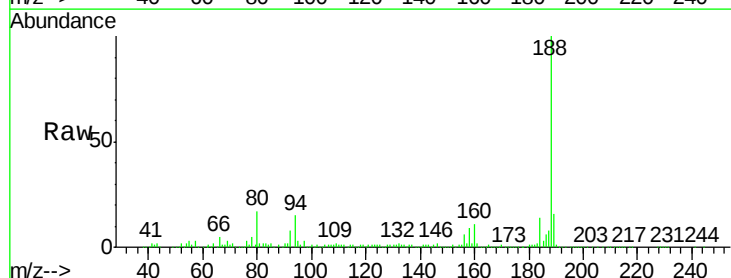
Manual Integrations
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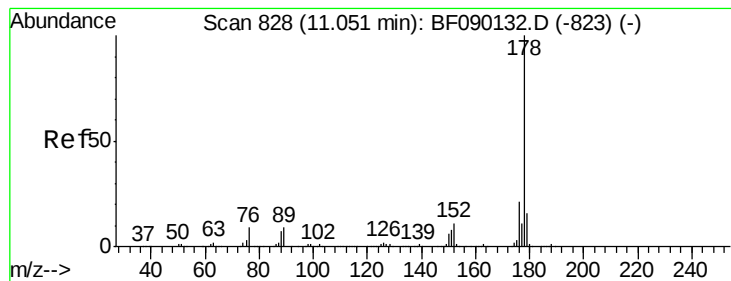
sohil
9/27/2016 1:06:40 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.97 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	15.2	10.5	15.7	
80	16.6	11.2	16.8	





#70

Phenanthrene

Concen: 24.25 ng

RT: 11.00 min Scan# 824

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

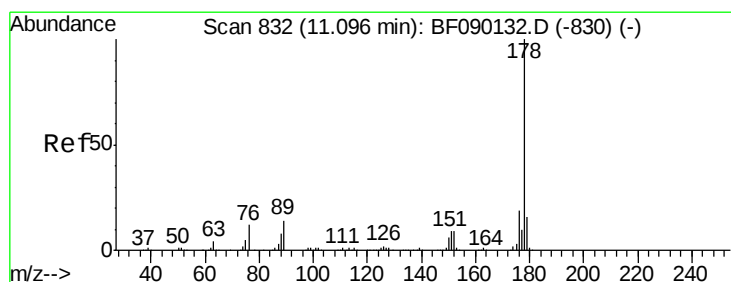
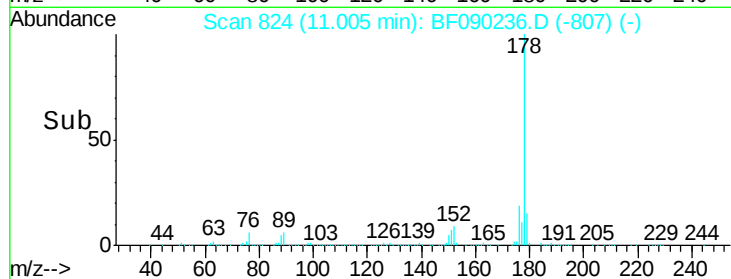
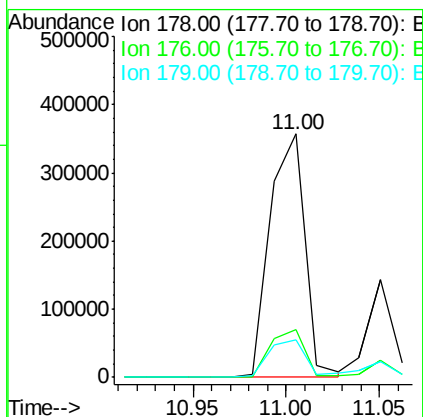
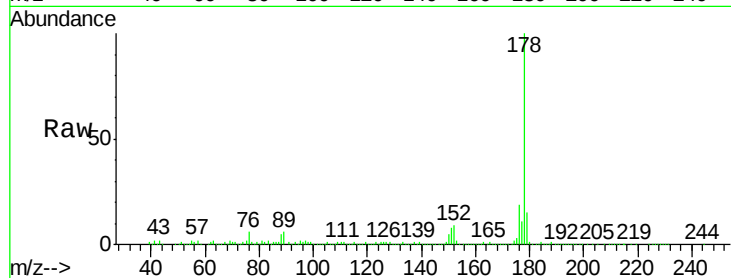
ClientSampleId :

RICHMOND-REC-SELECTFILLRE

Tot Ion:	178	Resp:	461331
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.9	23.9
179	15.4	12.9	19.3

Manual Integrations
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#71

Anthracene

Concen: 7.45 ng

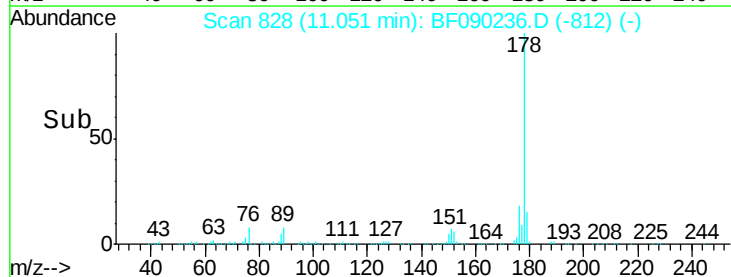
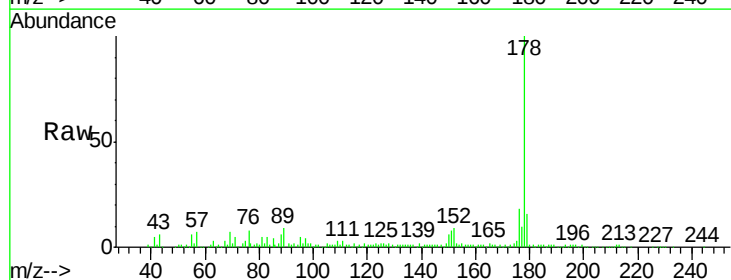
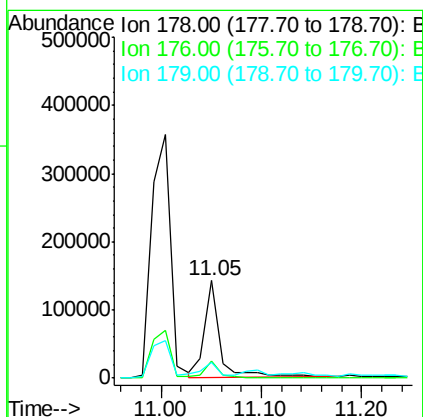
RT: 11.05 min Scan# 828

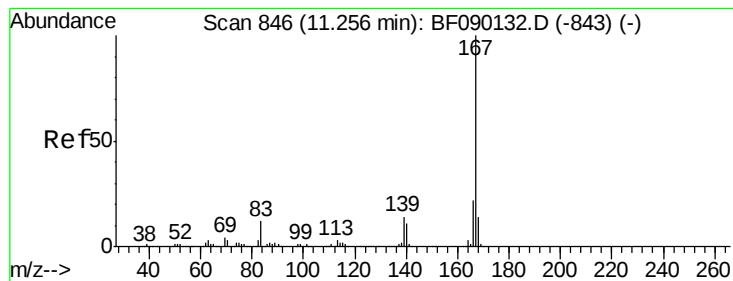
Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion:	178	Resp:	148702
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.8	23.6
179	16.0	12.6	19.0





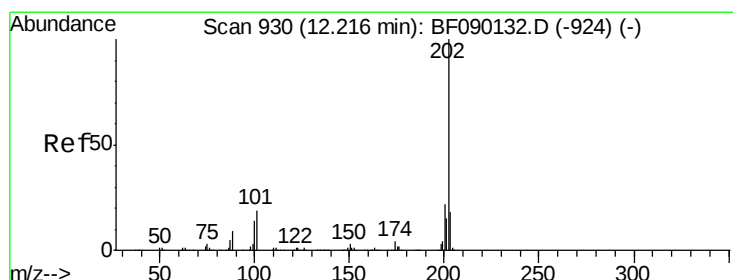
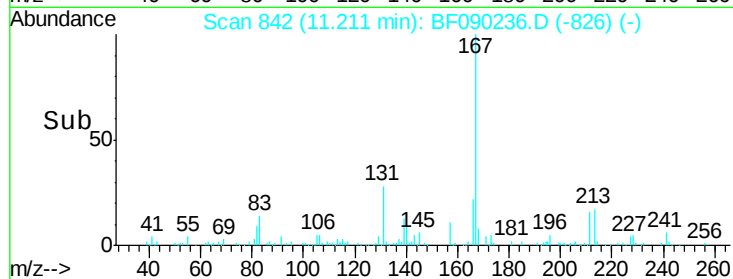
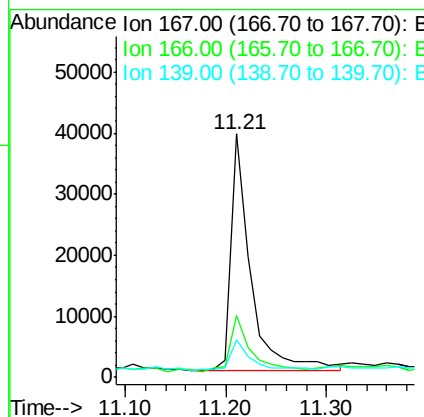
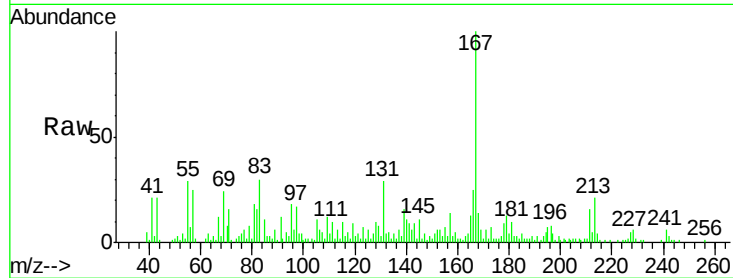
#72
 Carbazole
 Concen: 2.48 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.01 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
167	100		
166	25.4	18.0	27.0
139	15.5	10.4	15.6

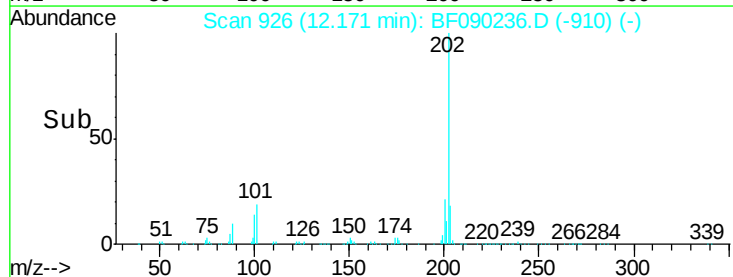
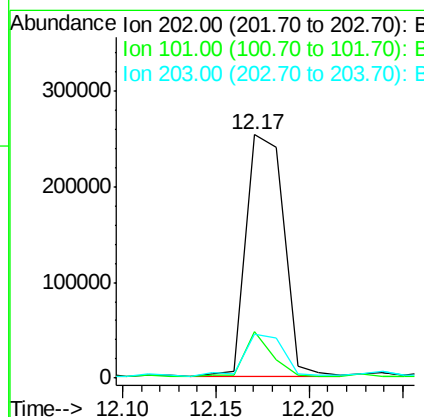
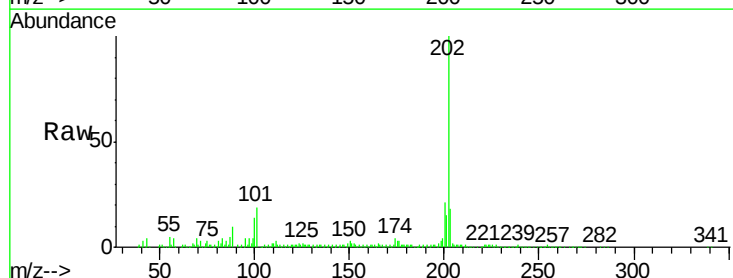
Manual Integrations
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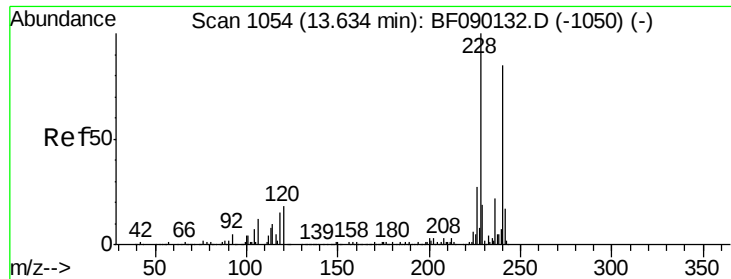
sohil
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#74
 Fluoranthene
 Concen: 17.33 ng
 RT: 12.17 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: BF090236.D
 Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	19.0	0.0	36.1
203	18.2	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.59 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILLRE

Tot Ion:240 Resp: 282057

Ion Ratio Lower Upper

240 100

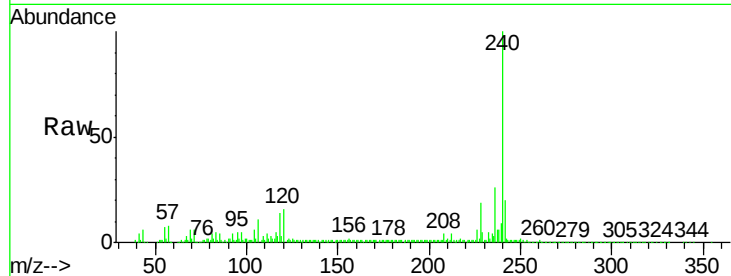
120 16.3 10.6 16.0#

236 26.4 21.6 32.4

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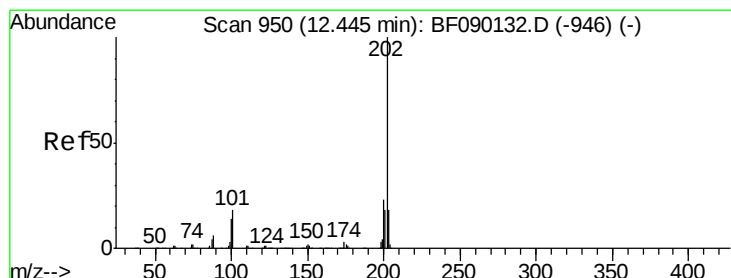
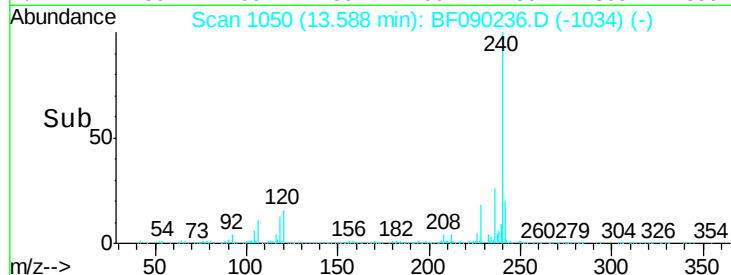
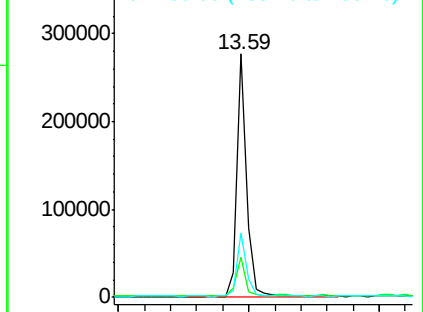
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 15.98 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

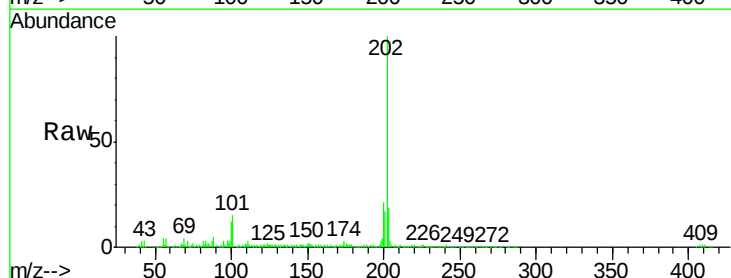
Tgt Ion:202 Resp: 308363

Ion Ratio Lower Upper

202 100

200 21.3 17.9 26.9

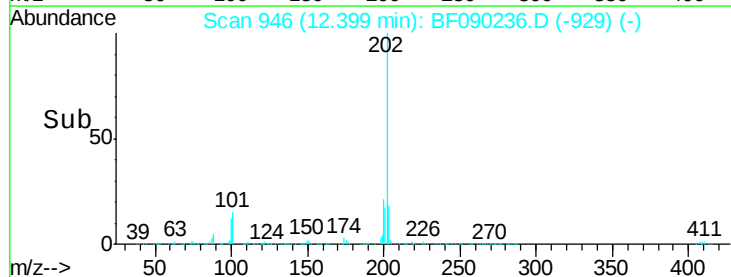
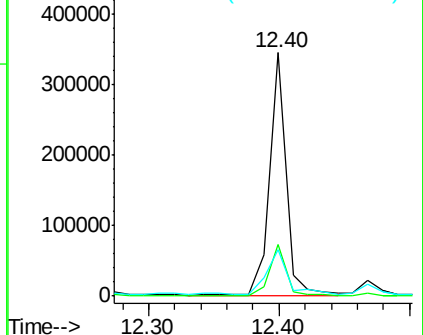
203 18.9 14.2 21.4

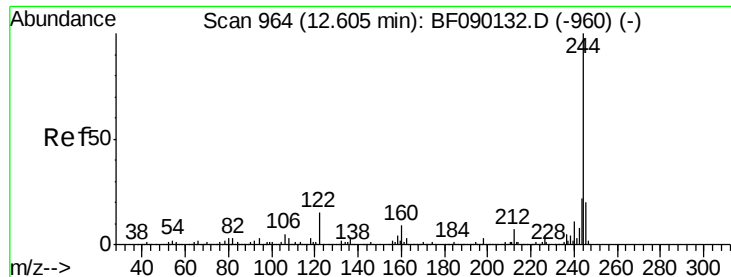


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 67.73 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

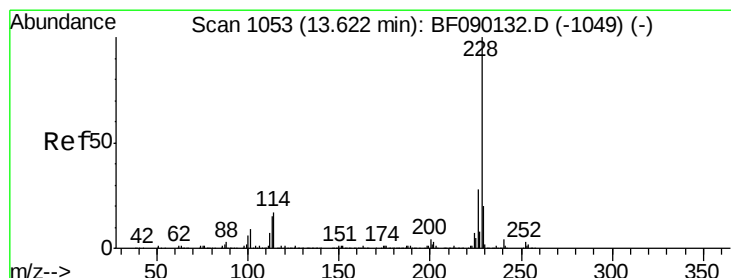
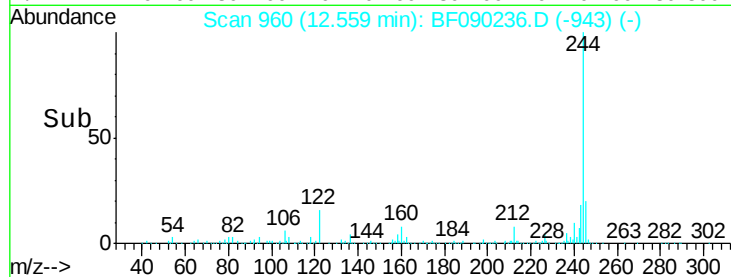
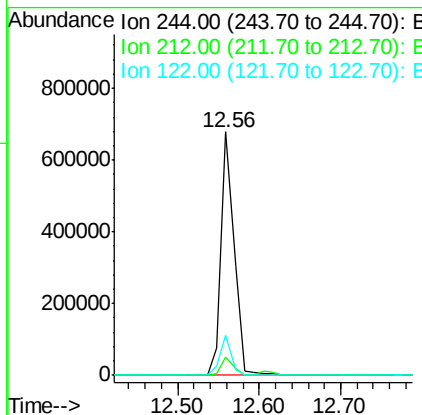
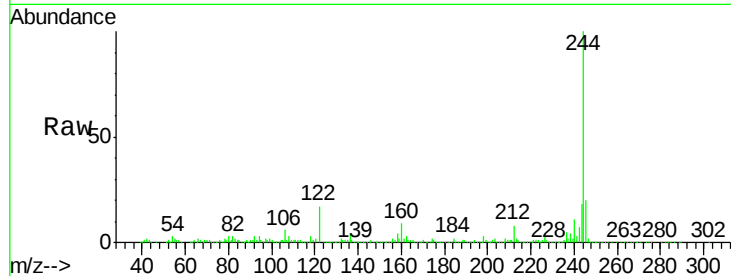
ClientSampleId :

RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.8
122	16.6	9.4	14.0

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#80

Benzo(a)anthracene

Concen: 9.13 ng

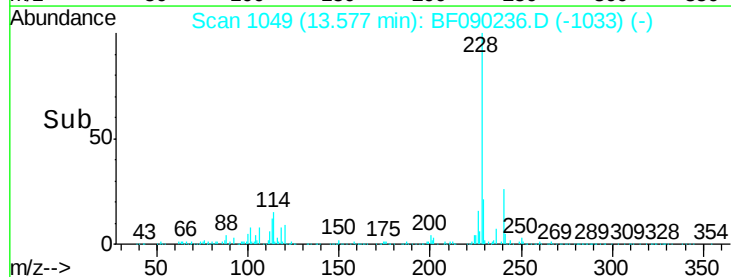
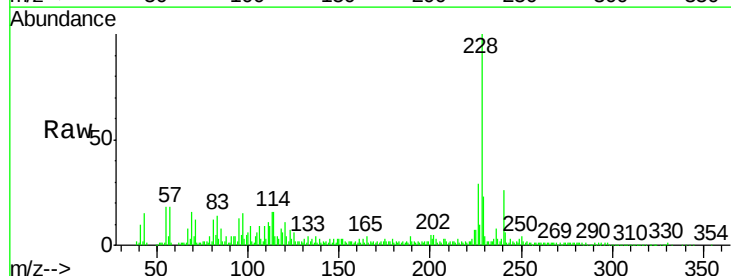
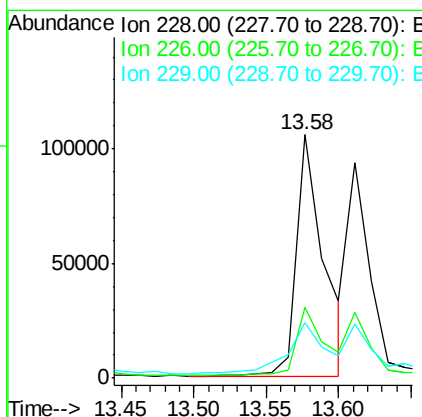
RT: 13.58 min Scan# 1049

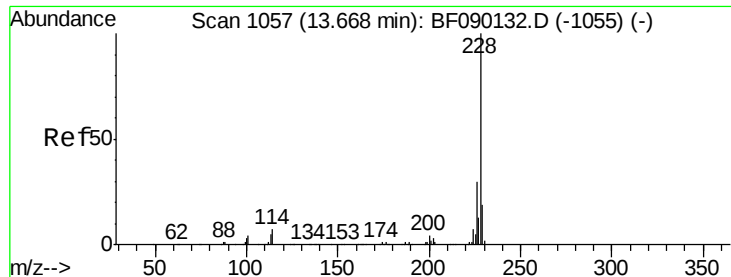
Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.0	33.0
229	22.9	16.2	24.2





#82

Chrysene

Concen: 6.92 ng/mL

RT: 13.61 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Instrument :

BNA_F

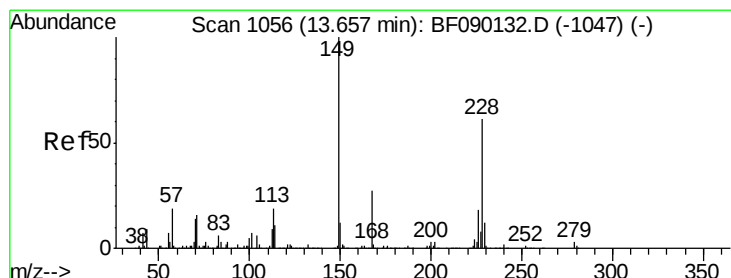
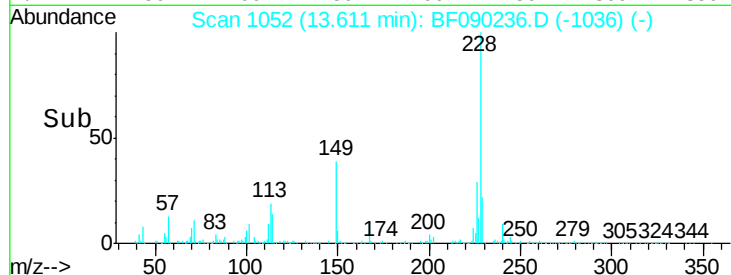
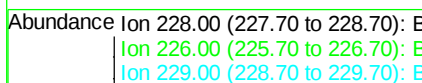
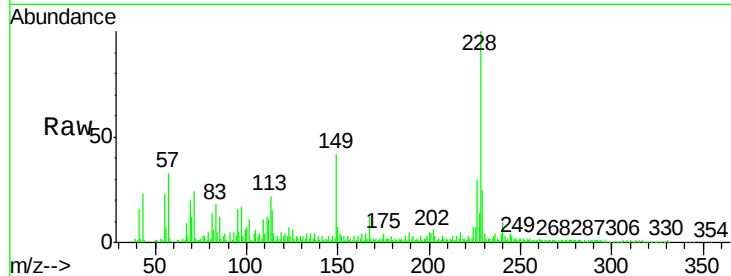
ClientSampleID :

RICHMOND-REC-SELECTFILLRE

Tot Ion:	228	Resp:	102330
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.6	37.0
229	25.2	16.2	24.4

Manual Integrations
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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.81 ng/mL

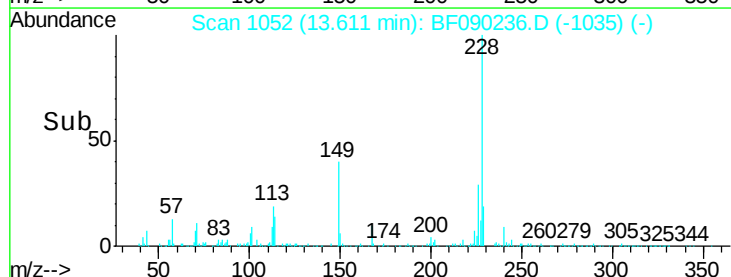
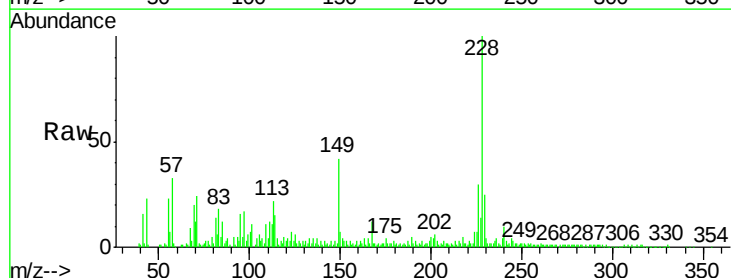
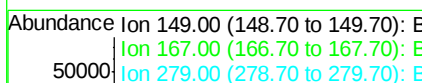
RT: 13.61 min Scan# 1052

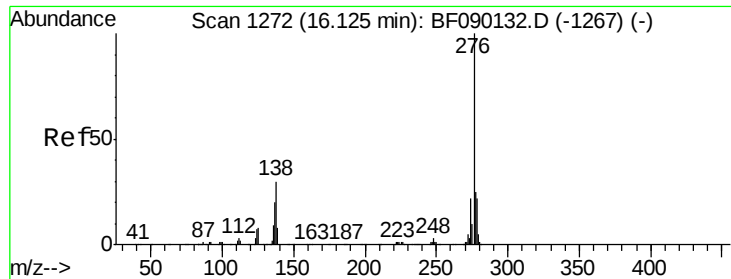
Delta R.T. -0.00 min

Lab File: BF090236.D

Acq: 26 Sep 2016 22:01

Tgt Ion:	149	Resp:	33949
Ion Ratio	Lower	Upper	
149	100		
167	28.3	21.2	31.8
279	3.5	2.2	3.2





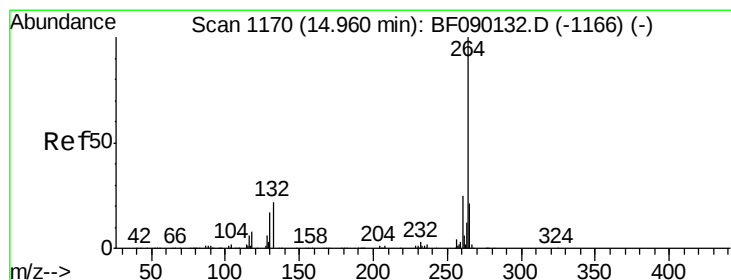
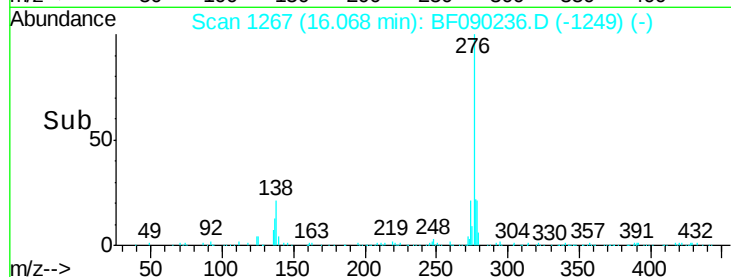
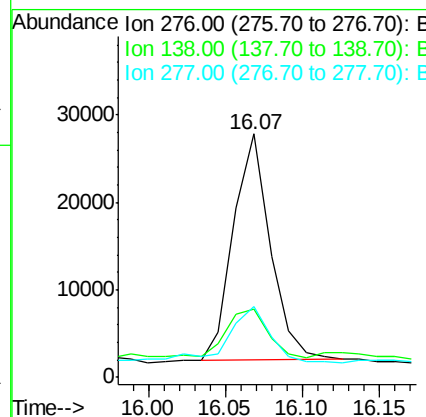
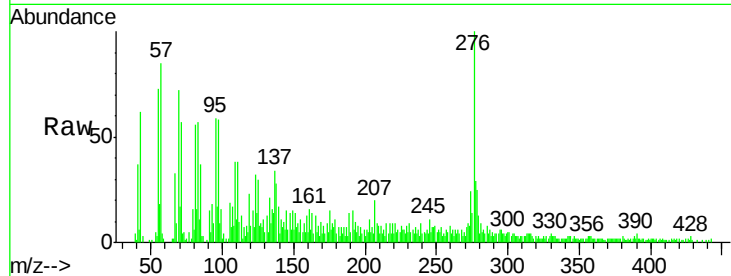
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.60 ng/mL
RT: 16.07 min Scan# 1267
Delta R.T. 0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.9	25.9	38.9#
277	5.1	19.9	29.9#

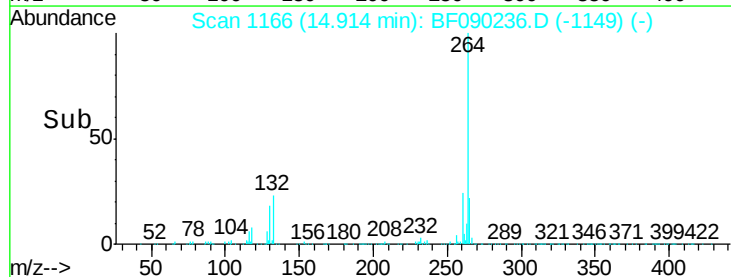
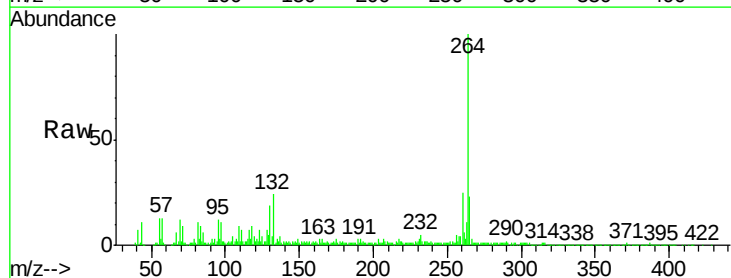
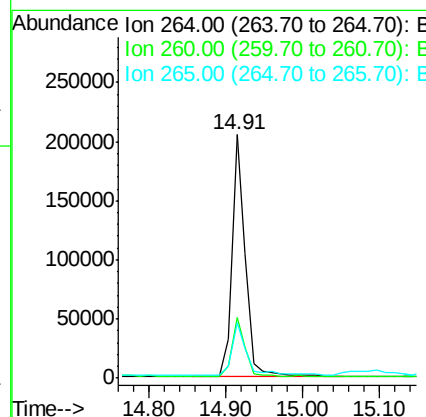
Manual Integrations
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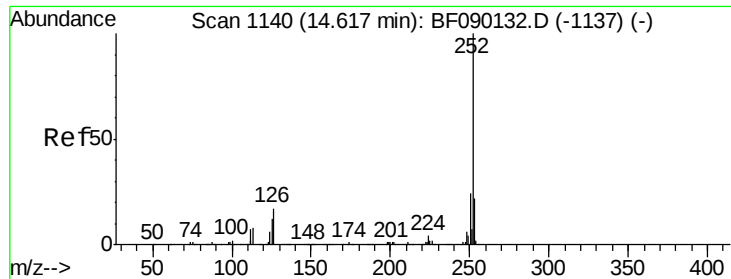
sohil
9/27/2016 1:06:40 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 14.91 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	22.7	17.0	25.4





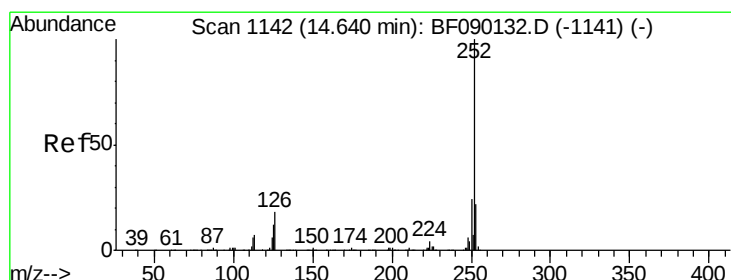
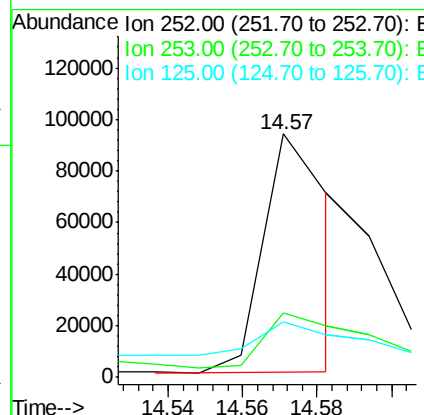
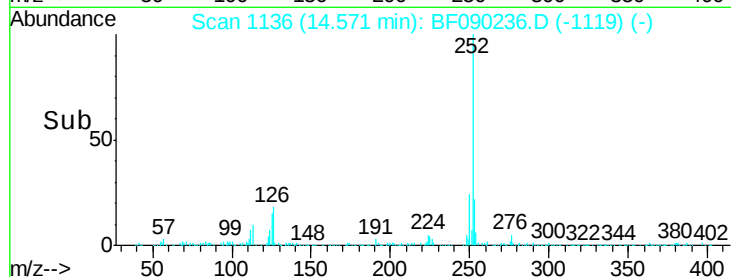
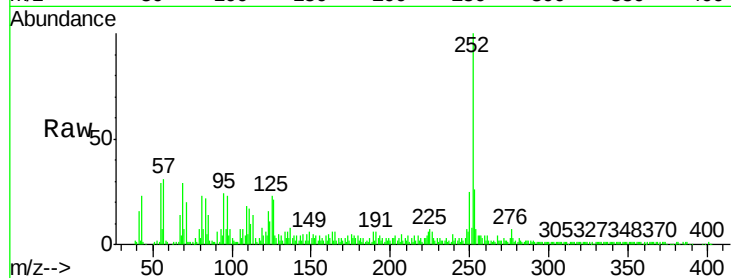
#87
Benzo(b)fluoranthene
Concen: 8.23 ng m
RT: 14.57 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.9	26.9
125	22.9	12.7	19.1

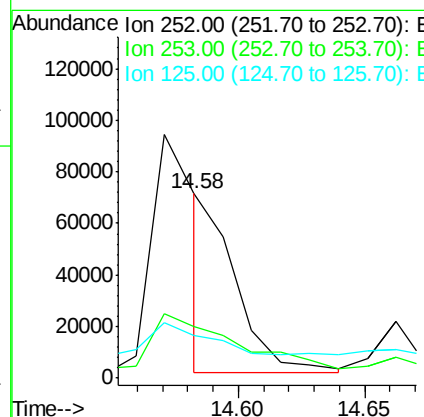
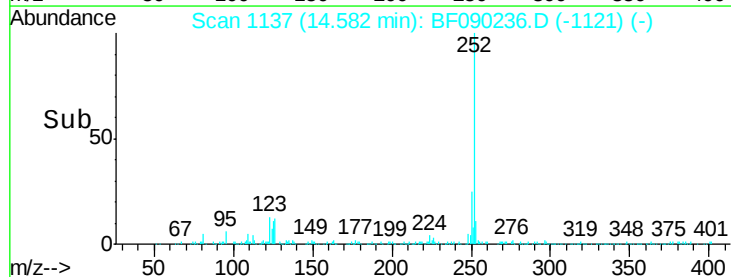
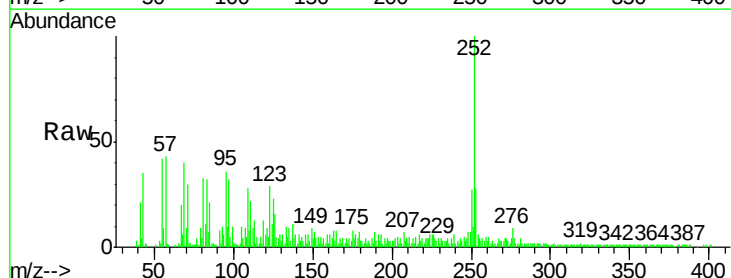
Manual Integrations
APPROVED

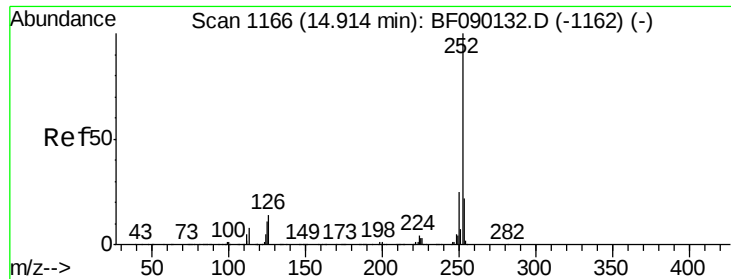
sohil
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#88
Benzo(k)fluoranthene
Concen: 4.04 ng m
RT: 14.58 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.8	26.8
125	23.4	7.8	11.6





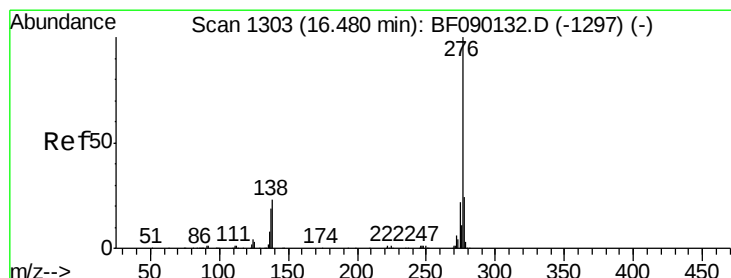
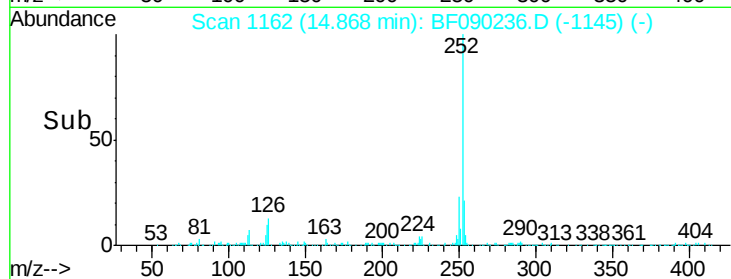
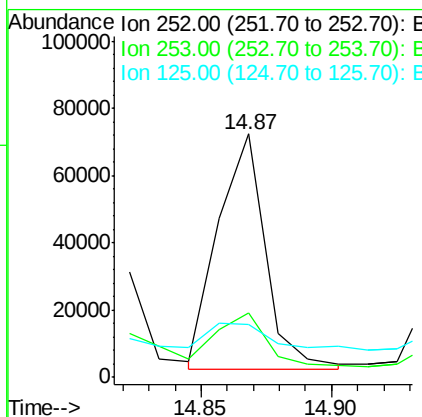
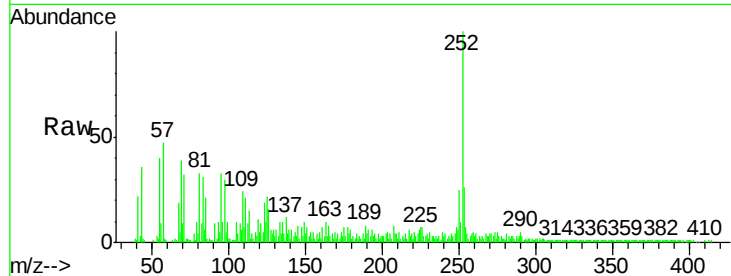
#89
Benzo(a)pyrene
Concen: 6.81 ng
RT: 14.87 min Scan# 1162
Delta R.T. -0.00 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILLRE

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.4	26.0#
125	21.5	7.7	11.5#

Manual Integrations
APPROVED

sohil
9/27/2016 1:06:40 PM



#91
Benzo(g,h,i)perylene
Concen: 4.63 ng
RT: 16.41 min Scan# 1297
Delta R.T. 0.01 min
Lab File: BF090236.D
Acq: 26 Sep 2016 22:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.1	18.9	28.3
138	29.9	23.3	34.9

