

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097780.D
 Acq On : 17 Aug 2017 11:01
 Operator : SJ/JU
 Sample : I4797-02 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-J9-WSW

Manual Integrations
 APPROVED

Sohil
 8/17/2017 5:58:23 PM

Quant Time: Aug 17 15:16:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	155017	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	583588	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	229303	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	336968	20.00	ng	0.00
75) Chrysene-d12	13.94	240	304172	20.00	ng	0.00
86) Perylene-d12	15.37	264	267273	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	99627	9.78	ng	-0.01
7) Phenol-d6	6.40	99	138227	9.98	ng	-0.01
23) Nitrobenzene-d5	7.33	82	81800	7.61	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	15800	7.94	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	130338	8.35	ng	0.00
78) Terphenyl-d14	12.89	244	70523	4.83	ng	0.00

Target Compounds

						Qvalue
12) 1,3-Dichlorobenzene	6.72	146	46653	4.035	ng	# 94
13) 1,4-Dichlorobenzene	6.80	146	103121	8.770	ng	# 92
14) 1,2-Dichlorobenzene	6.95	146	63080	5.818	ng	97
30) 1,2,4-Trichlorobenzene	8.00	180	39297	4.584	ng	98
31) Naphthalene	8.09	128	133340	4.401	ng	# 97
37) 2-Methylnaphthalene	8.78	142	477641	25.714	ng	99
45) 1,1'-Biphenyl	9.24	154	102833	4.918	ng	94
48) Acenaphthylene	9.68	152	84296	3.474	ng	# 66
51) Acenaphthene	9.86	154	506644	33.110	ng	98
54) Dibenzofuran	10.03	168	191988	9.362	ng	# 65
57) Fluorene	10.37	166	218969	13.810	ng	# 97
70) Phenanthrene	11.33	178	589755	32.844	ng	98
71) Anthracene	11.38	178	303759	16.679	ng	99
74) Fluoranthene	12.52	202	845496	45.113	ng	100
77) Pyrene	12.74	202	801231	32.207	ng	97
80) Benzo(a)anthracene	13.93	228	296473	16.263	ng	97
82) Chrysene	13.96	228	280908m	15.490	ng	
85) Indeno(1,2,3-cd)pyrene	16.76	276	83469	6.257	ng	# 90
87) Benzo(b)fluoranthene	14.96	252	309465m	18.369	ng	
88) Benzo(k)fluoranthene	14.98	252	101940m	6.441	ng	
89) Benzo(a)pyrene	15.30	252	174611	11.708	ng	97
91) Benzo(g,h,i)perylene	17.17	276	73839	5.828	ng	94

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

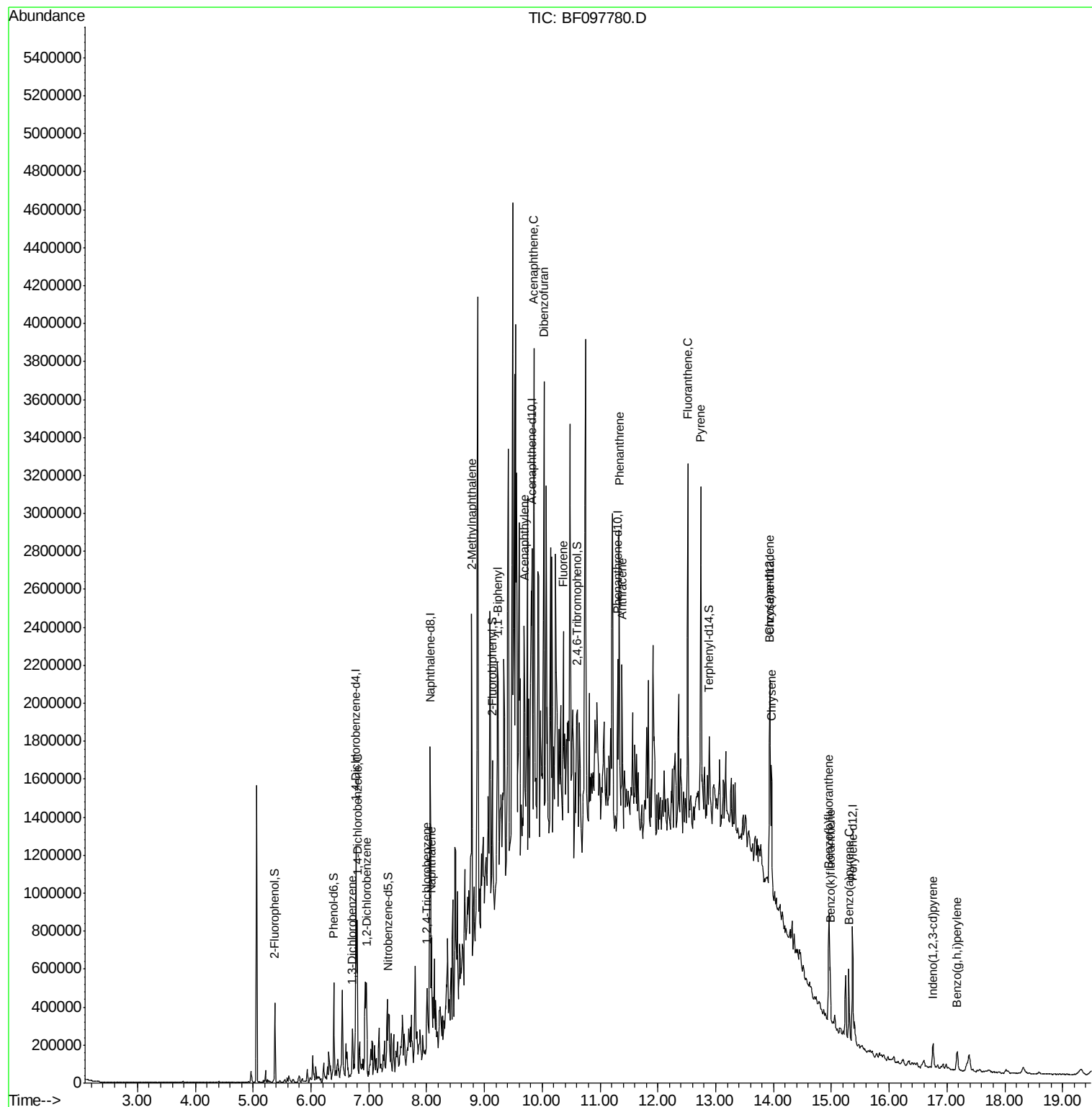
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097780.D
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Operator : SJ/JU
Sample : I4797-02 10X
Misc :
ALS Vial : 46 Sample Multiplier: 1

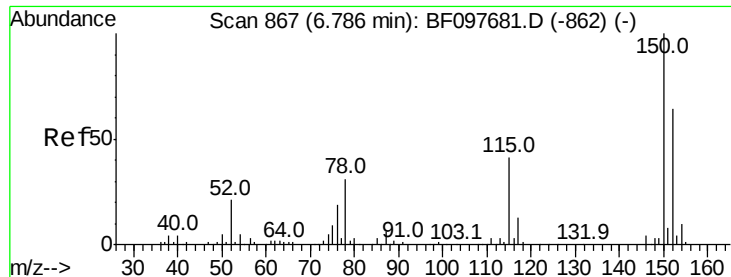
Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

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Quant Time: Aug 17 15:16:01 2017
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
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#1

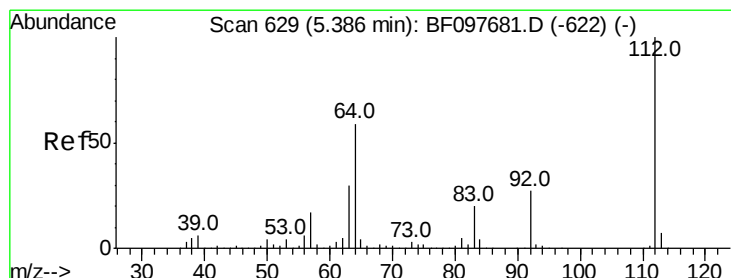
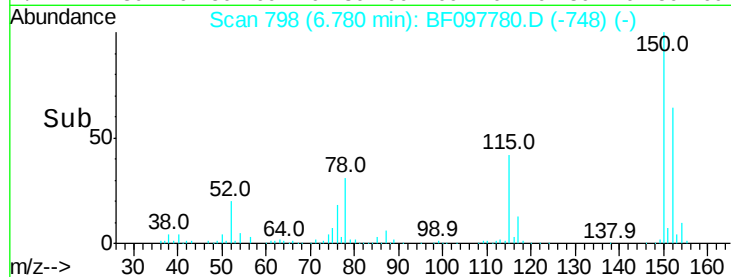
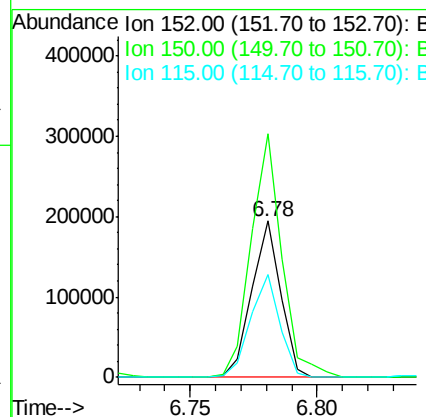
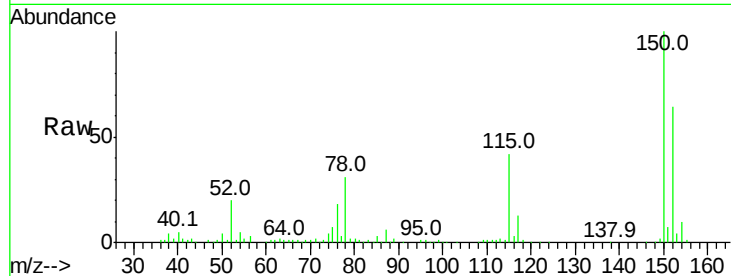
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	65.9	52.2	78.2

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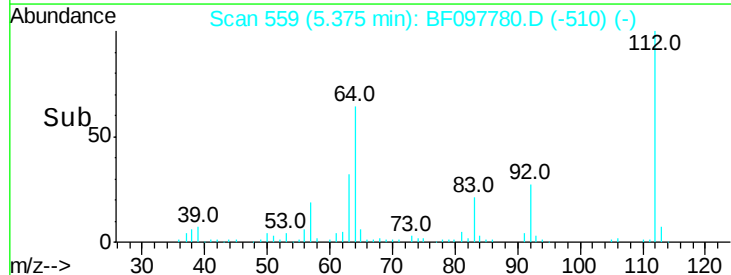
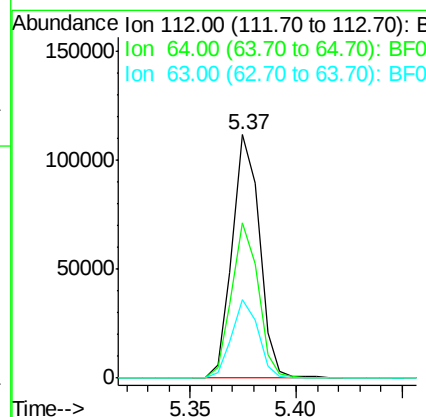
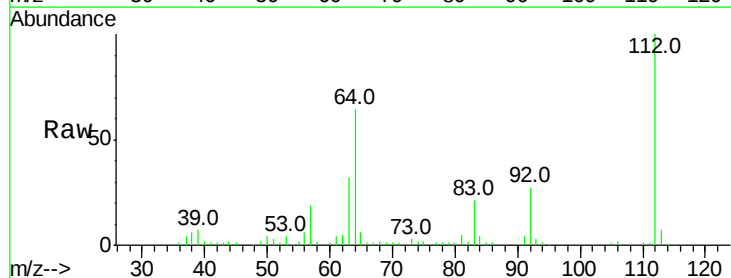
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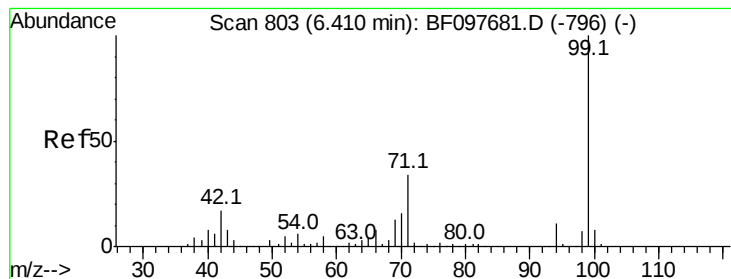


#5

2-Fluorophenol
Concen: 9.776 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	46.0	69.0
63	32.1	23.4	35.0





#7

Phenol-d6

Concen: 9.982 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

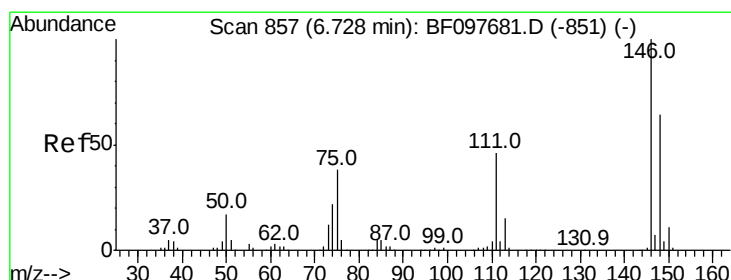
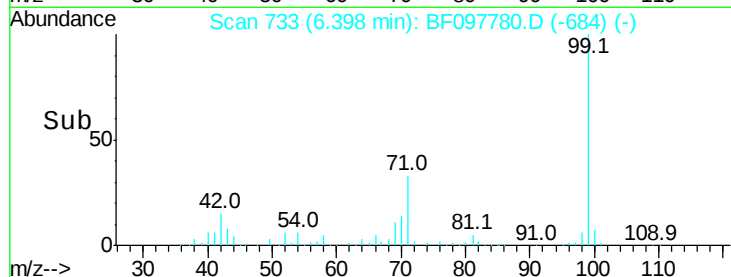
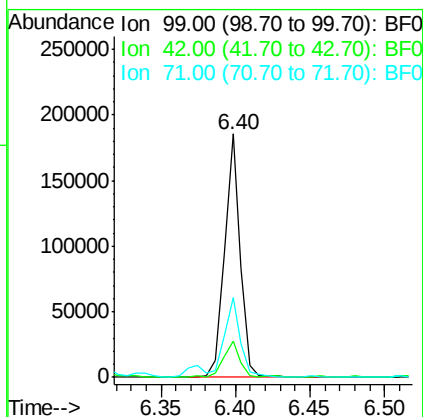
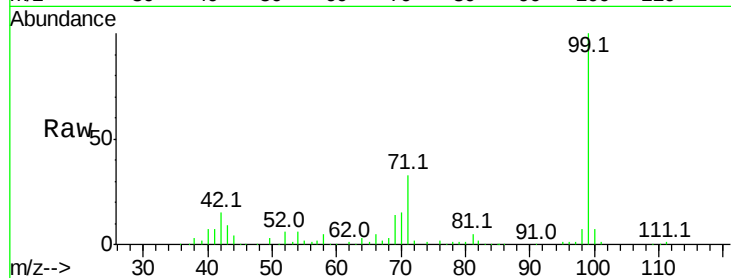
ClientSampleId :

E2-J9-WSW

Tot Ion:	99	Resp:	138227
Ion Ratio	Lower	Upper	
99	100		
42	14.9	13.5	20.3
71	33.0	24.5	36.7

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#12

1,3-Dichlorobenzene

Concen: 4.035 ng

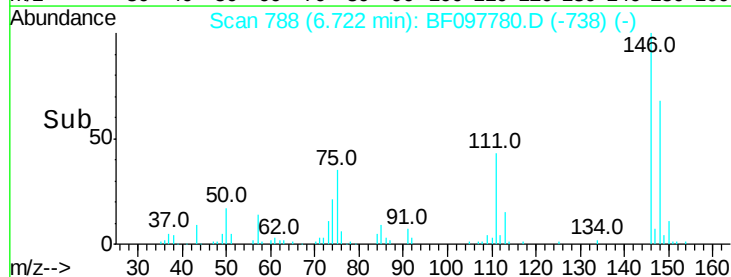
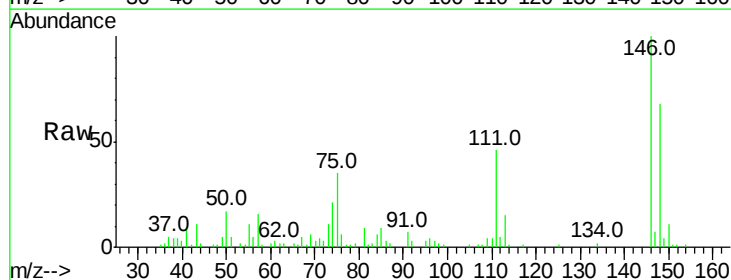
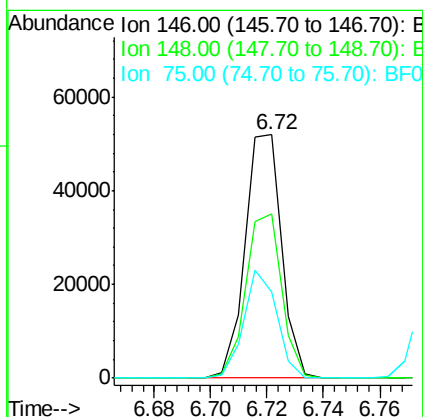
RT: 6.72 min Scan# 788

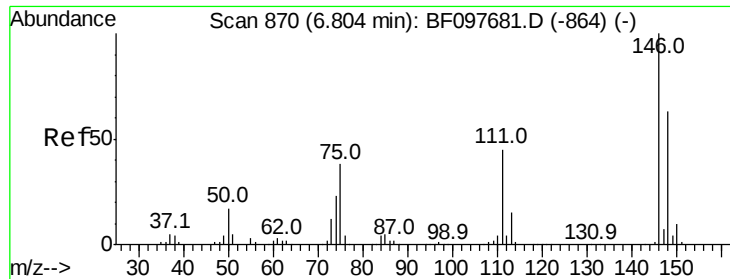
Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:	146	Resp:	46653
Ion Ratio	Lower	Upper	
146	100		
148	67.7	51.8	77.6
75	35.4	23.1	34.7#





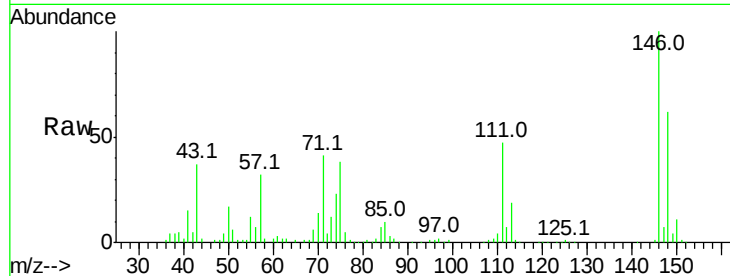
#13
 1,4-Dichlorobenzene
 Concen: 8.770 ng
 RT: 6.80 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Instrument :
 BNA_F
 ClientSampled :
 E2-J9-WSW

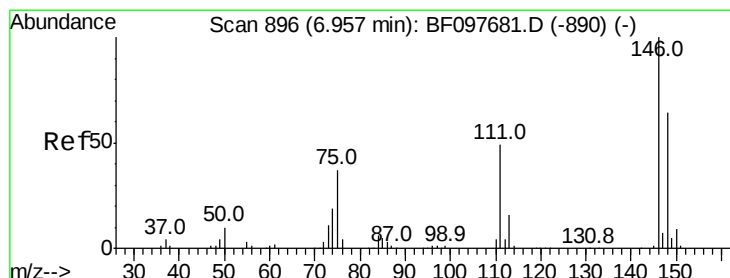
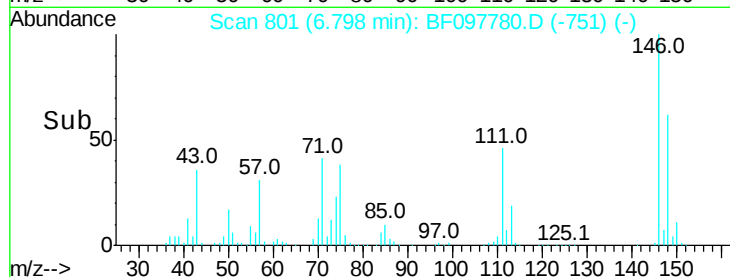
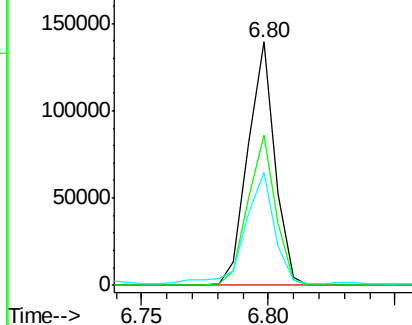
Tot Ion	Ratio	Lower	Upper
146	100		
148	61.9	52.2	78.2
111	46.5	30.3	45.5#

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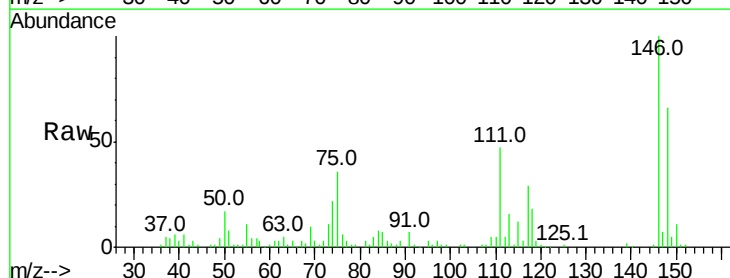


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

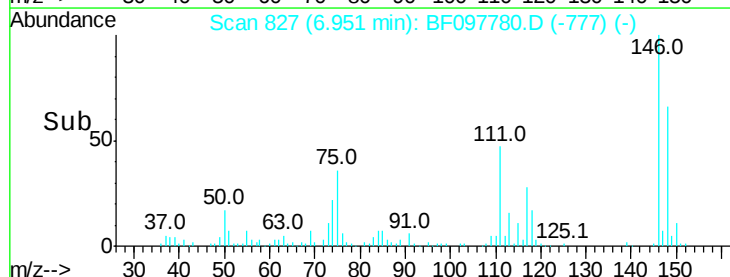
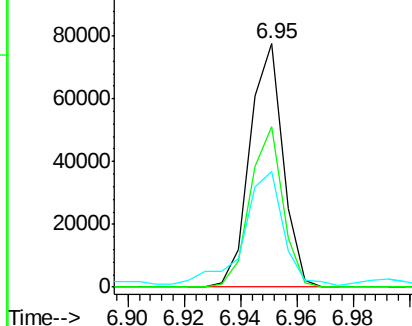


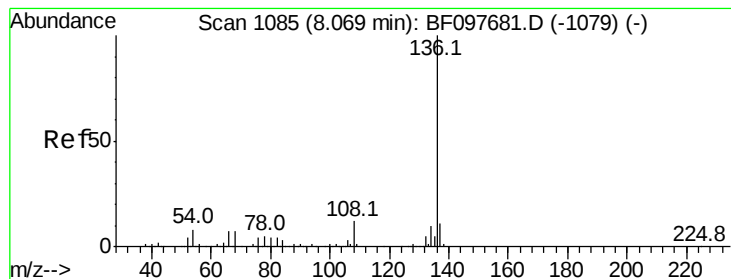
#14
 1,2-Dichlorobenzene
 Concen: 5.818 ng
 RT: 6.95 min Scan# 827
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Lower	Upper
146	100		
148	66.1	50.4	75.6
111	47.4	38.2	57.4



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

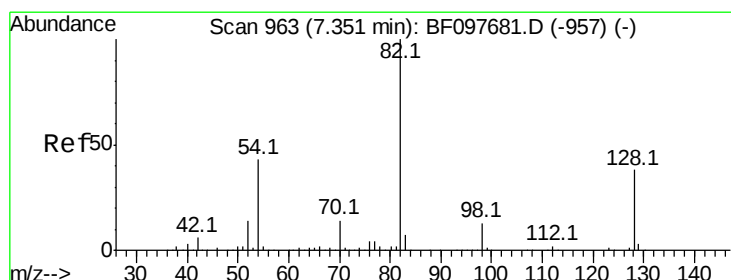
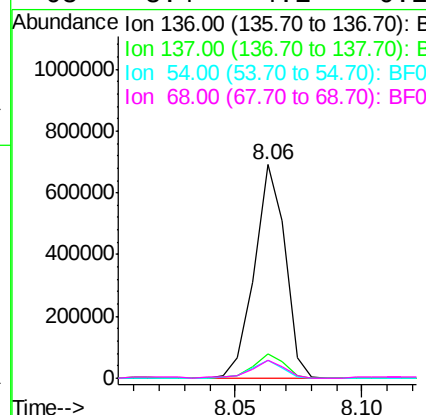
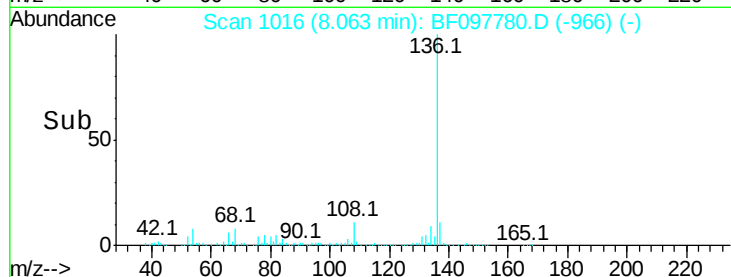
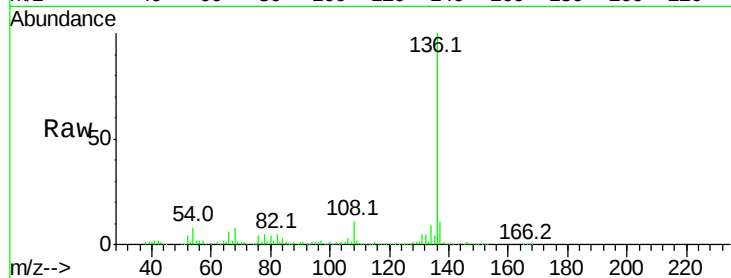
ClientSampled :

E2-J9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	8.5	12.7	
54	8.3	4.9	7.3#	
68	8.4	4.1	6.1#	

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#23

Nitrobenzene-d5

Concen: 7.615 ng

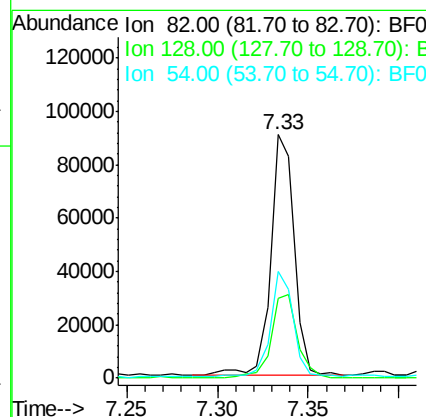
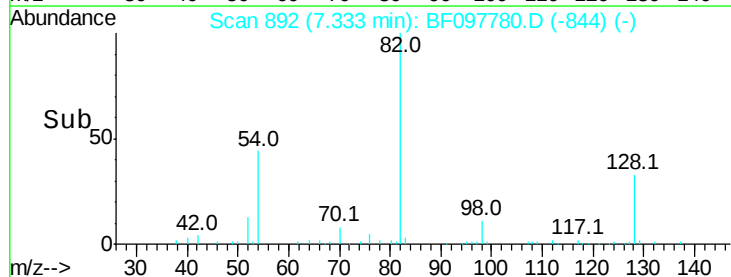
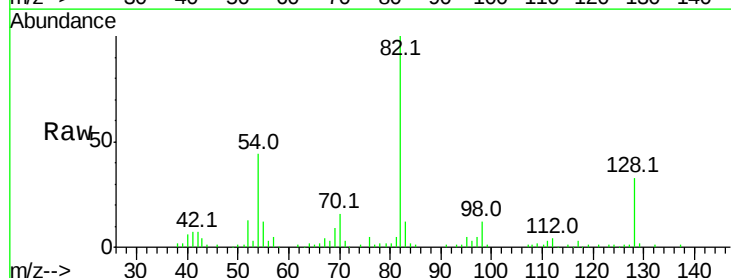
RT: 7.33 min Scan# 892

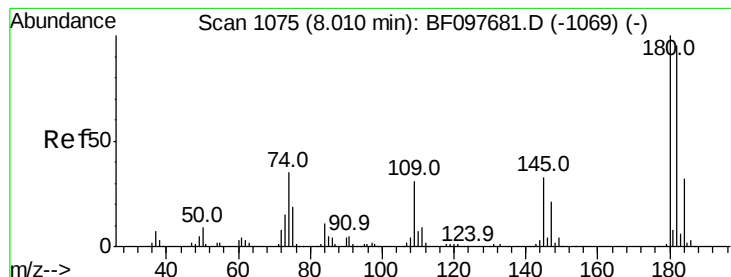
Delta R.T. -0.02 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	32.6	34.0	51.0#	
54	43.8	42.2	63.2	





#30

1,2,4-Trichlorobenzene

Concen: 4.584 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

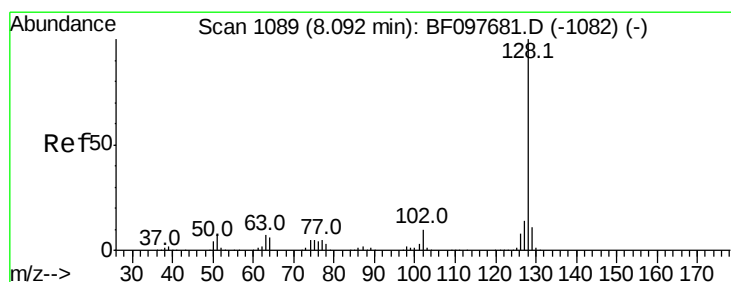
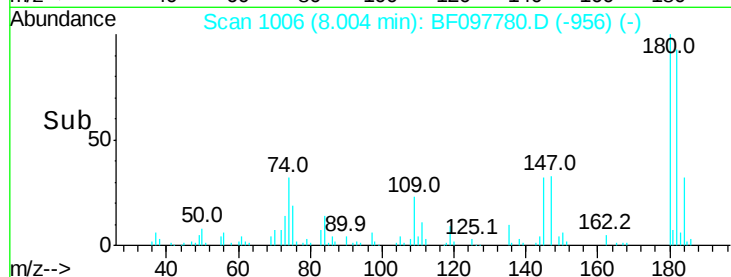
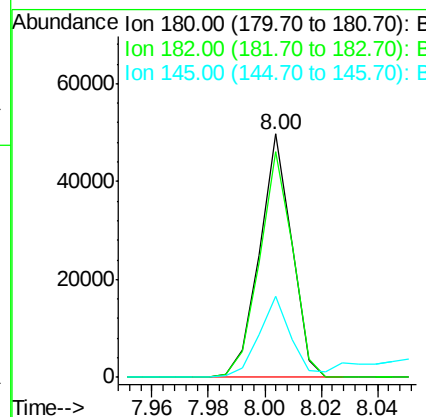
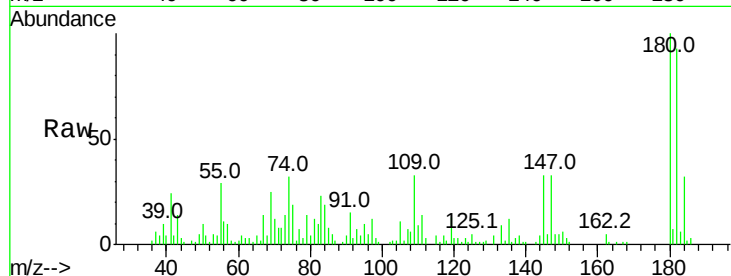
ClientSampleId :

E2-J9-WSW

Tot Ion:	180	Resp:	39297
Ion Ratio	Lower	Upper	
180	100		
182	92.6	75.8	113.6
145	33.2	25.3	37.9

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#31

Naphthalene

Concen: 4.401 ng

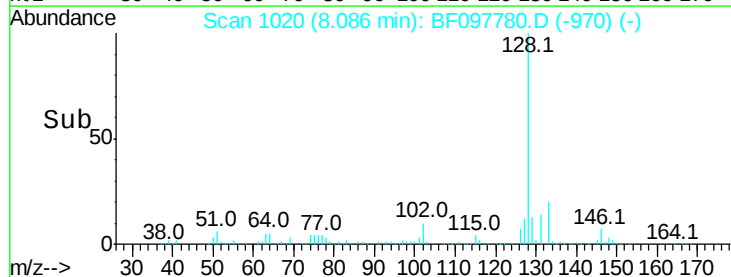
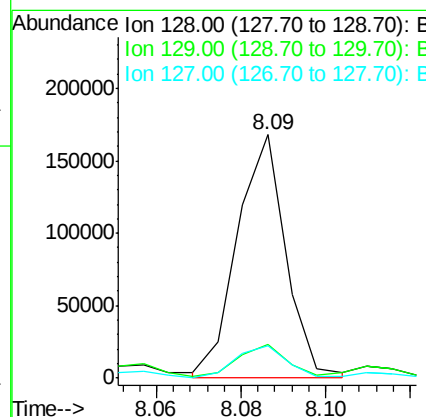
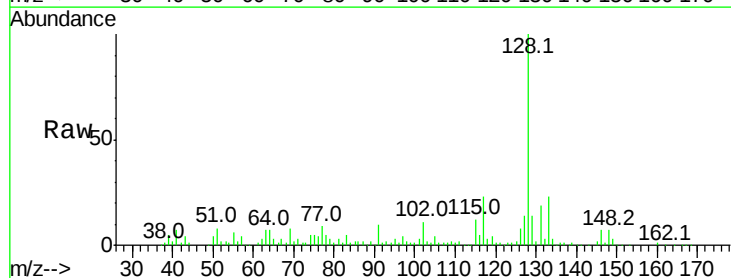
RT: 8.09 min Scan# 1020

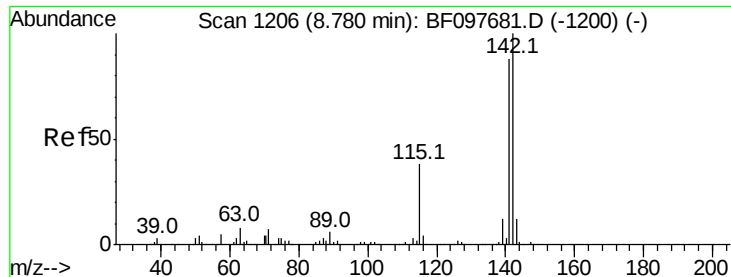
Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:	128	Resp:	133340
Ion Ratio	Lower	Upper	
128	100		
129	13.9	9.0	13.6#
127	13.6	10.8	16.2





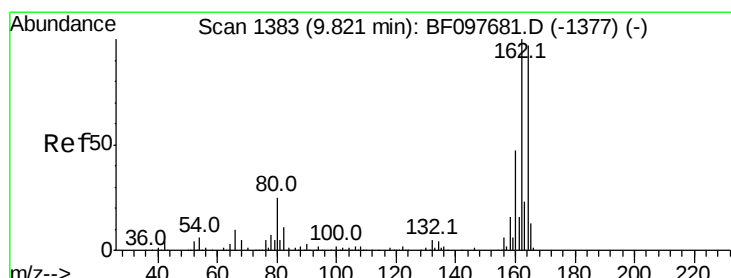
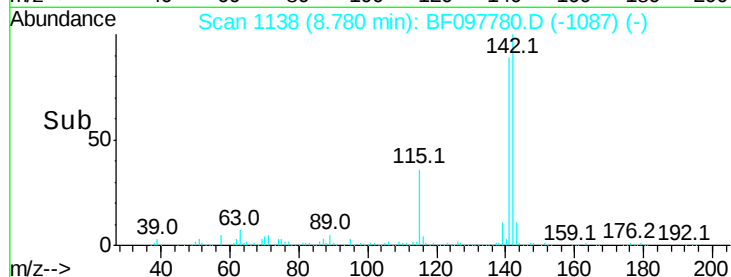
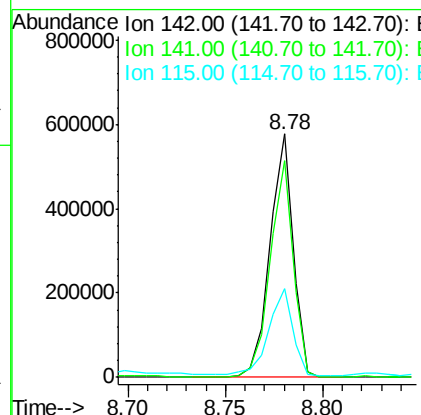
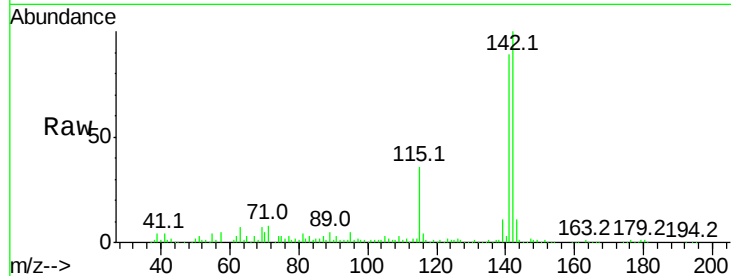
#37
2-Methylnaphthalene
Concen: 25.714 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.00 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
142	100	477641		
141	88.8	71.3	106.9	
115	36.4	27.1	40.7	

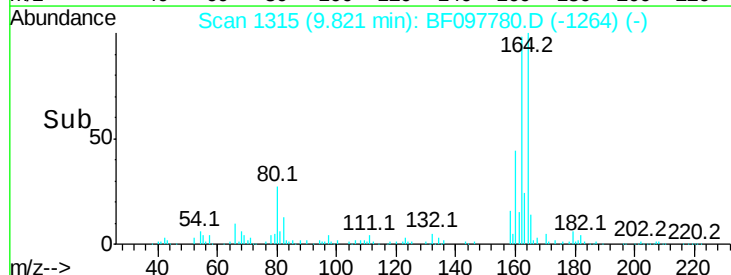
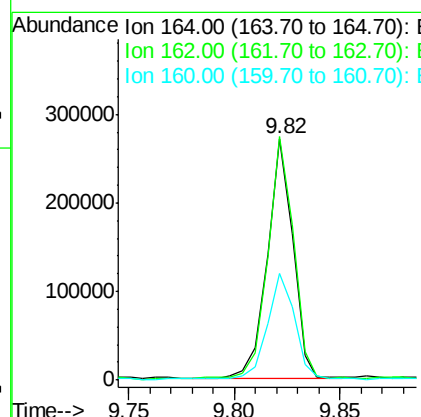
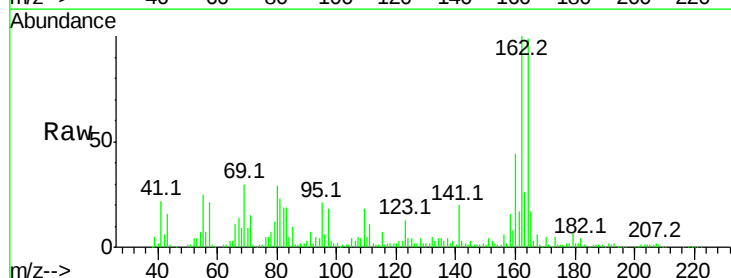
Manual Integrations
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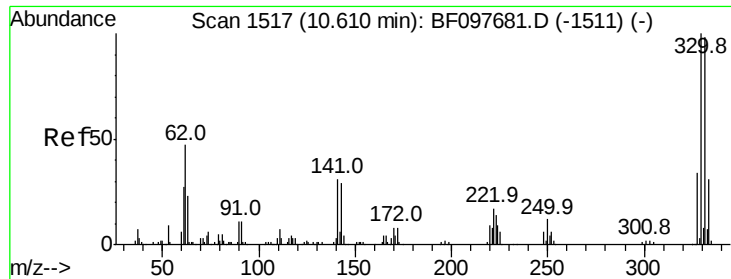
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.00 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	229303		
162	101.0	82.6	123.8	
160	44.4	36.2	54.2	





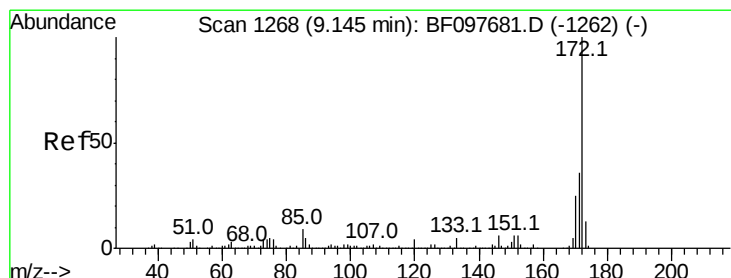
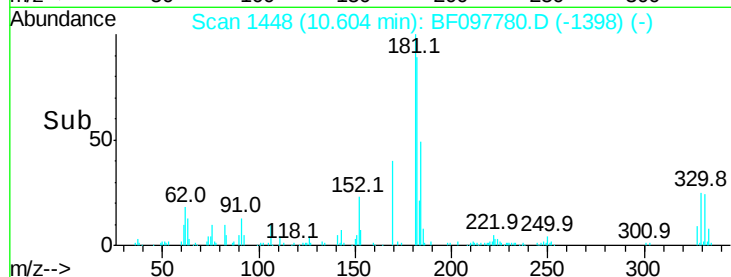
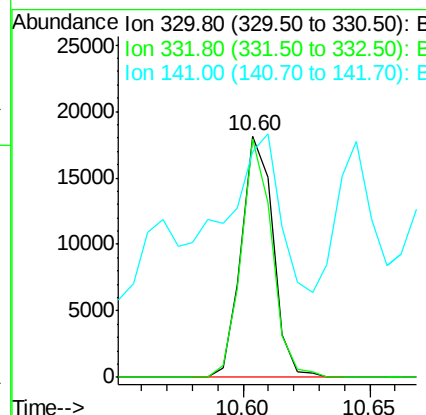
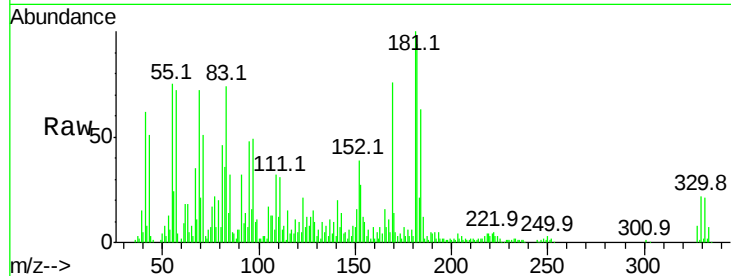
#41
 2,4,6-Tribromophenol
 Concen: 7.941 ng
 RT: 10.60 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Instrument :
 BNA_F
 ClientSampleId :
 E2-J9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.7	76.6	115.0	
141	100.6	31.4	47.2#	

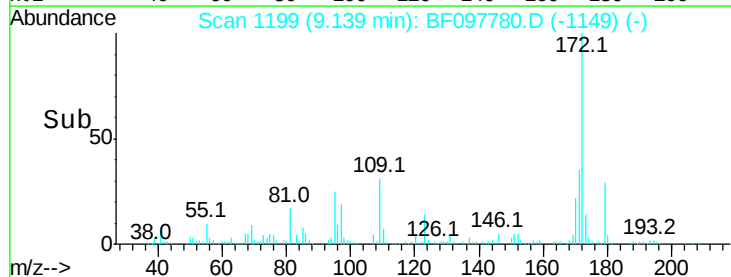
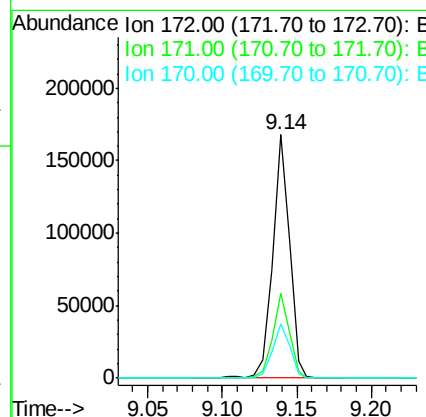
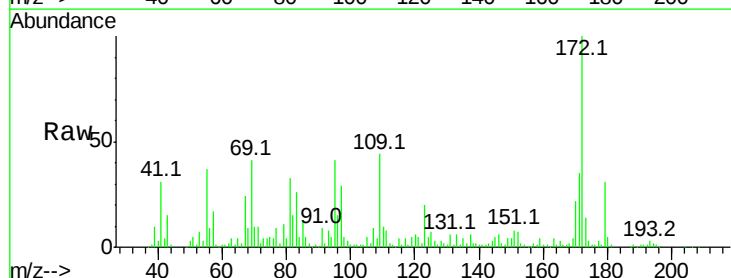
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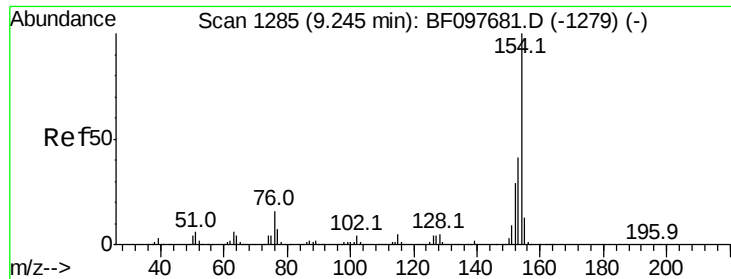
Sohil
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#44
 2-Fluorobiphenyl
 Concen: 8.351 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.7	29.6	44.4	
170	22.4	19.8	29.8	





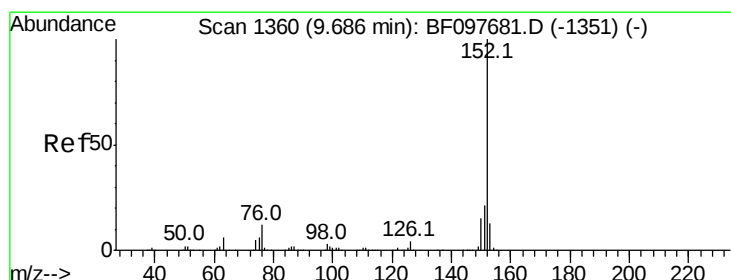
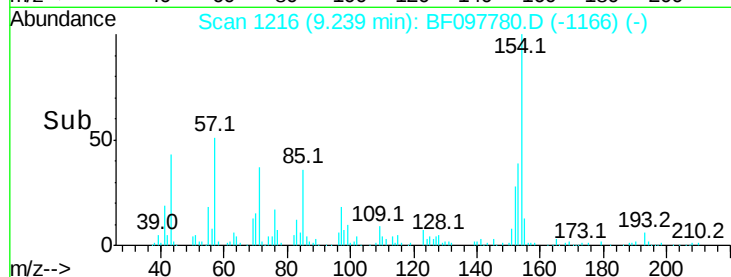
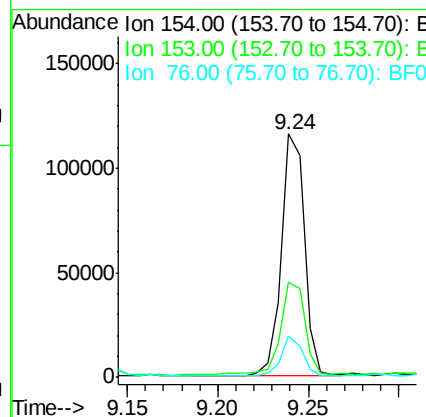
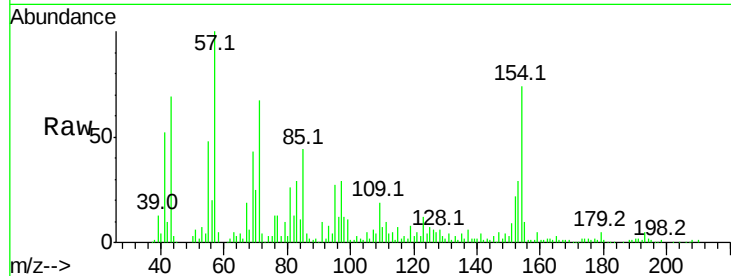
#45
 1,1'-Biphenyl
 Concen: 4.918 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Instrument :
 BNA_F
 ClientSampleId :
 E2-J9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.2	21.2	61.2	
76	16.9	0.0	29.9	

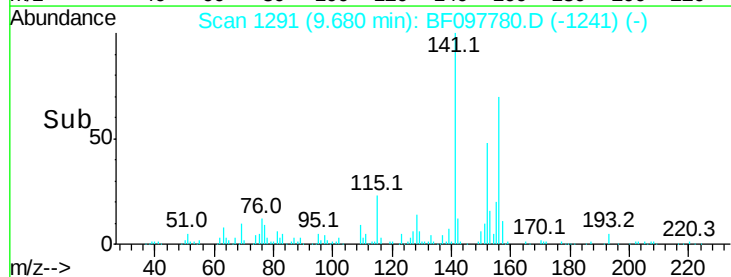
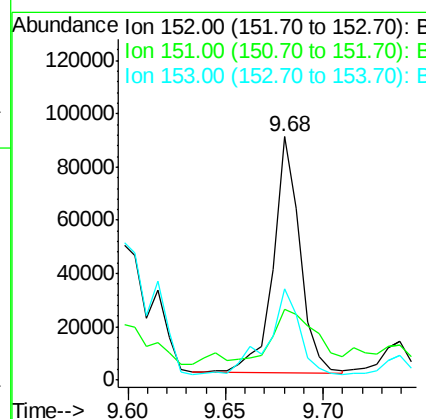
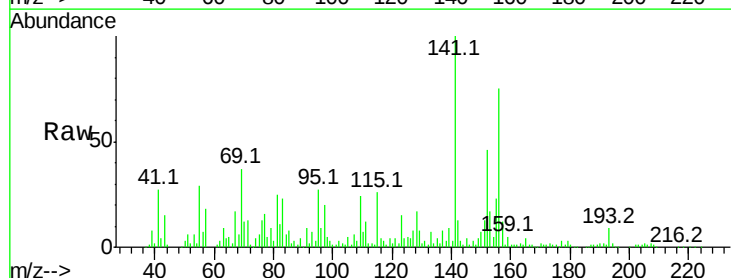
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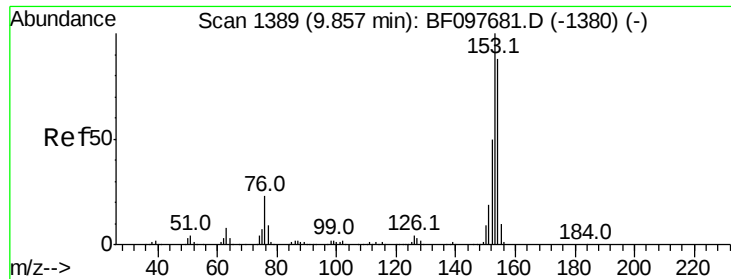
Sohil
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#48
 Acenaphthylene
 Concen: 3.474 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: BF097780.D
 Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	29.1	16.8	25.2#	
153	37.4	10.8	16.2#	





#51

Acenaphthene

Concen: 33.110 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

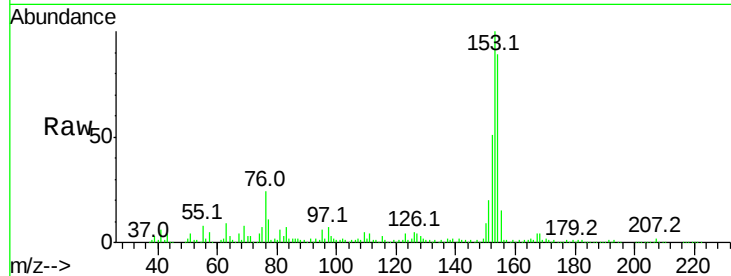
ClientSampleId :

E2-J9-WSW

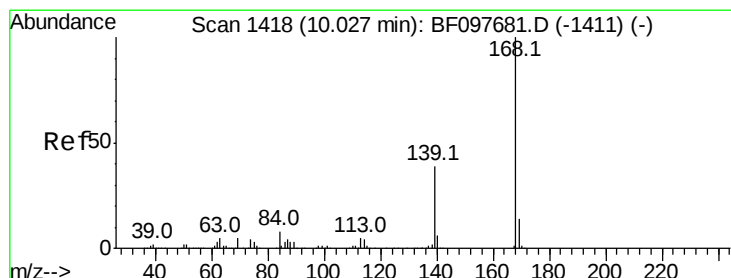
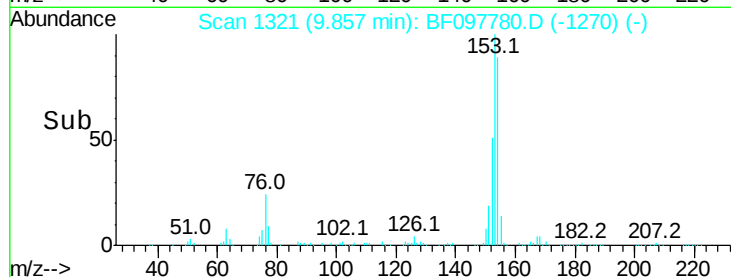
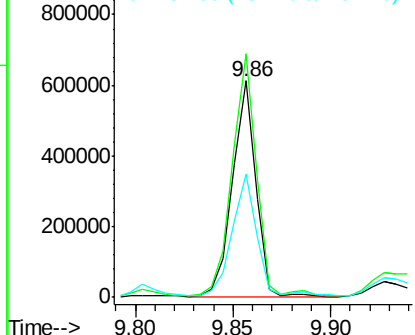
Tot Ion:	154	Resp:	506644
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.5	135.7
152	57.2	43.6	65.4

Manual Integrations
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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: 9.362 ng

RT: 10.03 min Scan# 1350

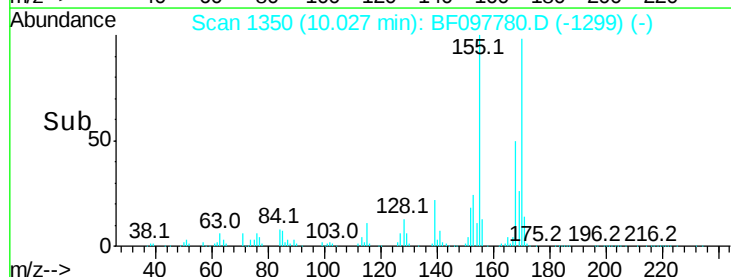
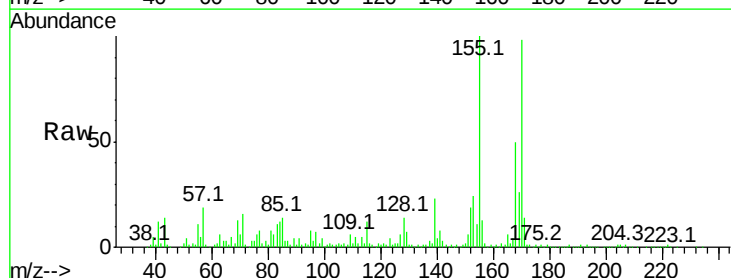
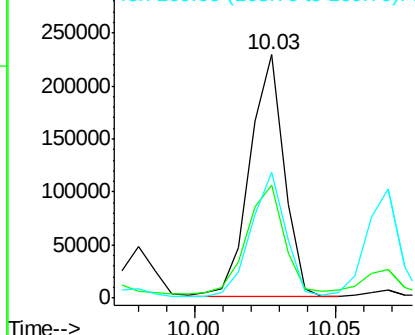
Delta R.T. -0.00 min

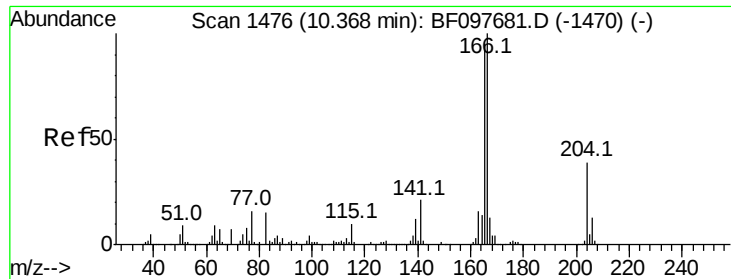
Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:	168	Resp:	191988
Ion Ratio	Lower	Upper	
168	100		
139	46.2	30.6	45.8#
169	51.6	10.8	16.2#

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: 13.810 ng

RT: 10.37 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

ClientSampleId :

E2-J9-WSW

Tot Ion:166 Resp: 218969

Ion Ratio Lower Upper

166 100

165 96.1 78.8 118.2

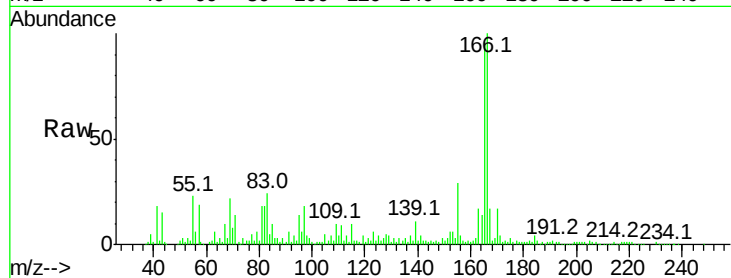
167 17.0 10.6 16.0#

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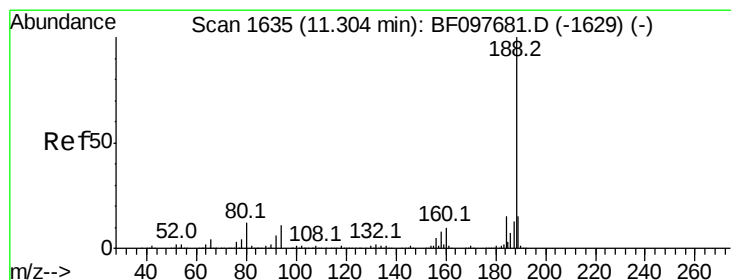
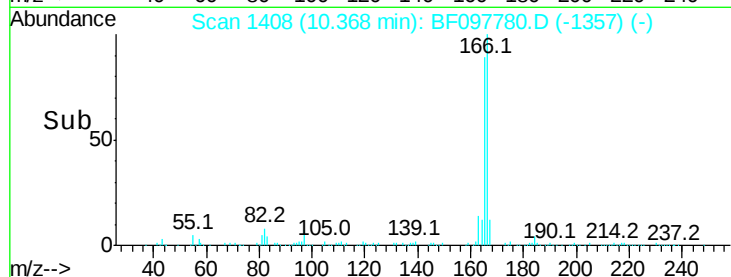
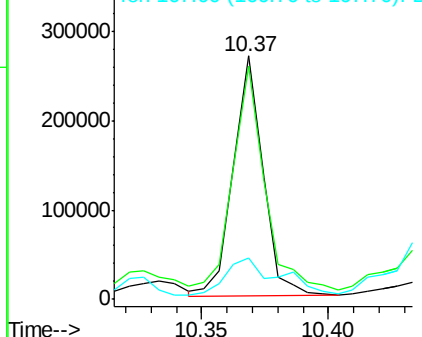
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1567

Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

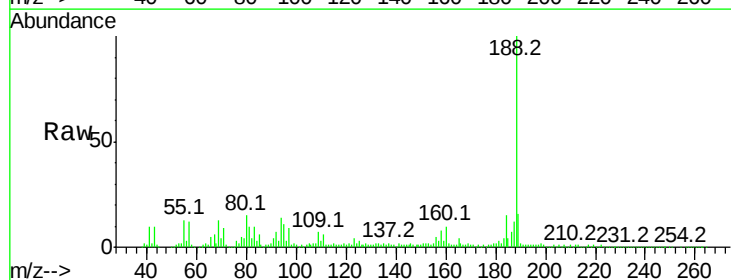
Tgt Ion:188 Resp: 336968

Ion Ratio Lower Upper

188 100

94 13.8 9.4 14.2

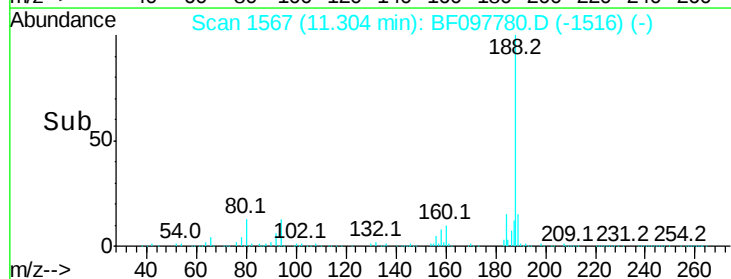
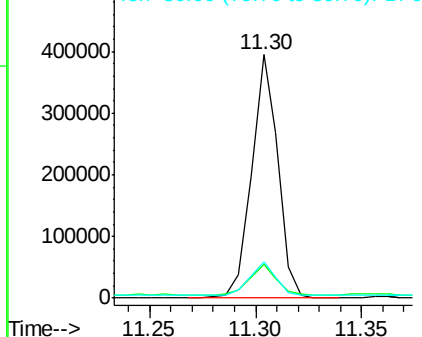
80 14.7 10.2 15.2

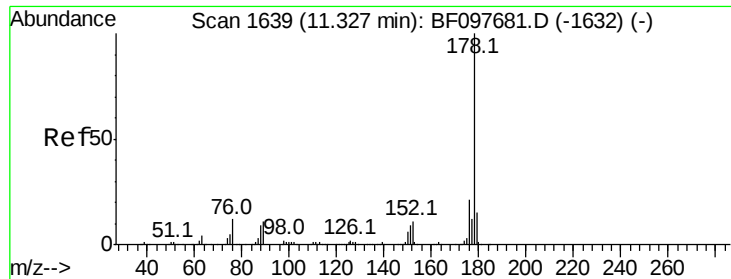


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 32.844 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

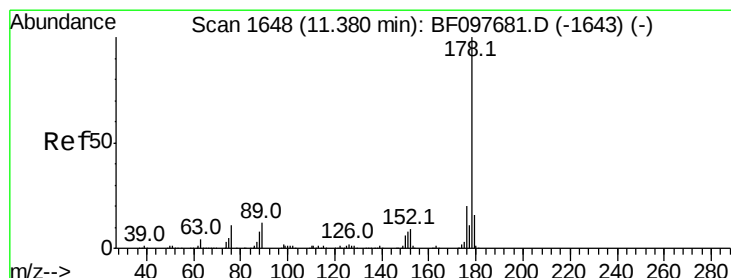
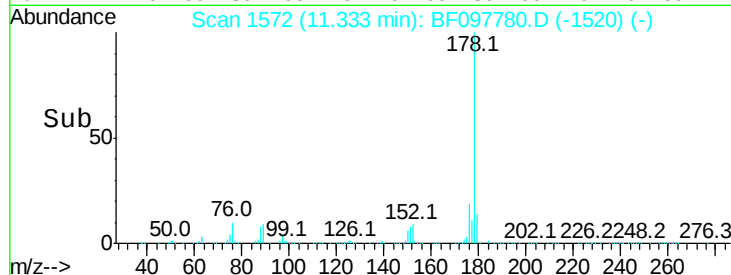
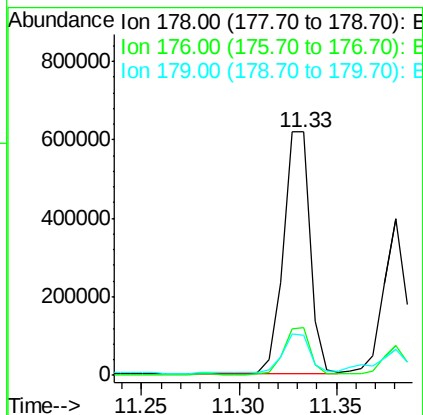
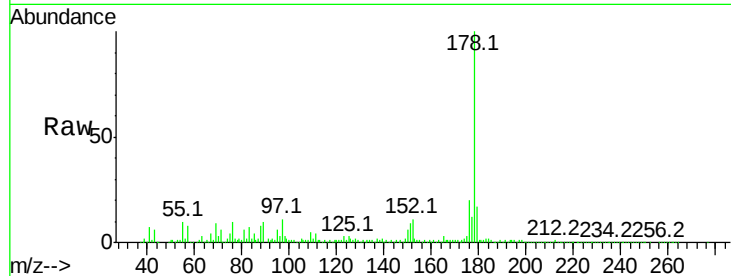
ClientSampleId :

E2-J9-WSW

Tot Ion:178	Resp:	589755
Ion Ratio	Lower	Upper
178	100	
176	19.7	16.2 24.4
179	16.7	12.6 19.0

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#71

Anthracene

Concen: 16.679 ng

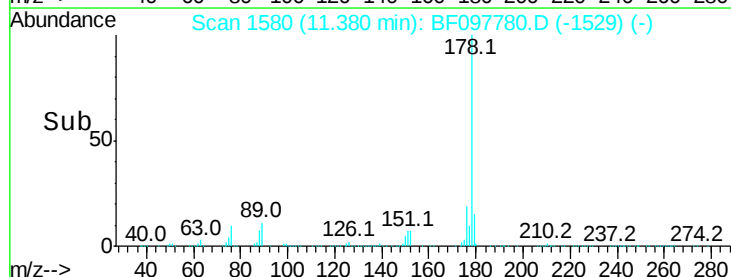
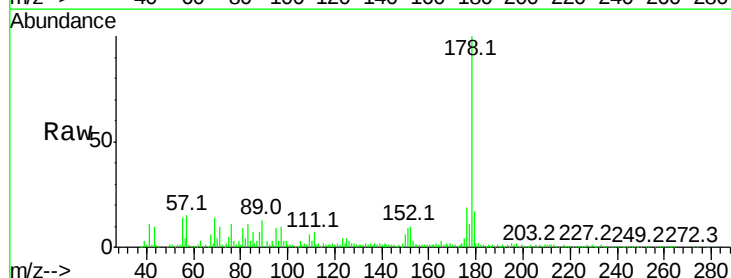
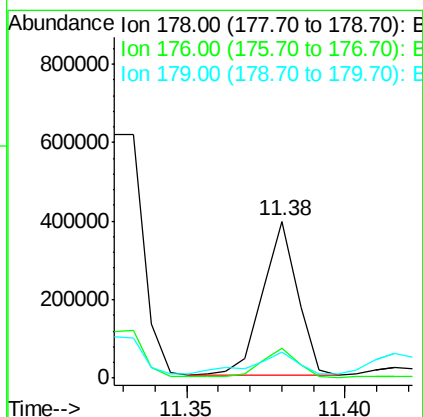
RT: 11.38 min Scan# 1580

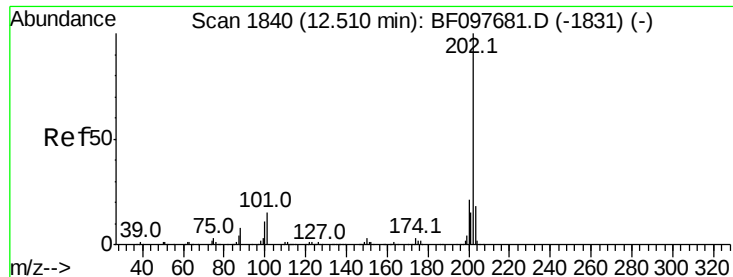
Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:178	Resp:	303759
Ion Ratio	Lower	Upper
178	100	
176	19.4	15.8 23.8
179	16.7	12.7 19.1





#74

Fluoranthene

Concen: 45.113 ng

RT: 12.52 min Scan# 1774

Delta R.T. 0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

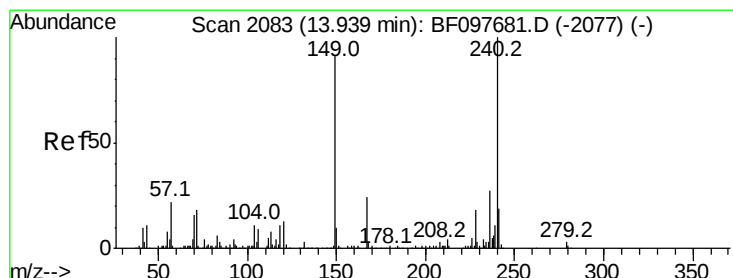
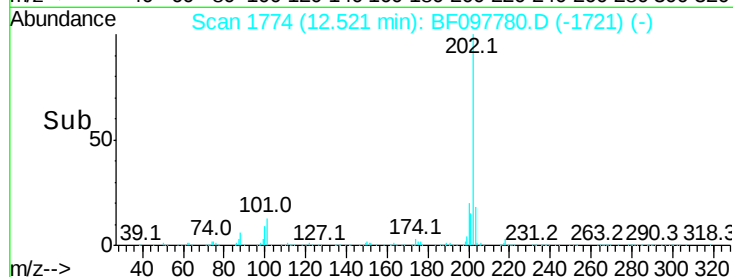
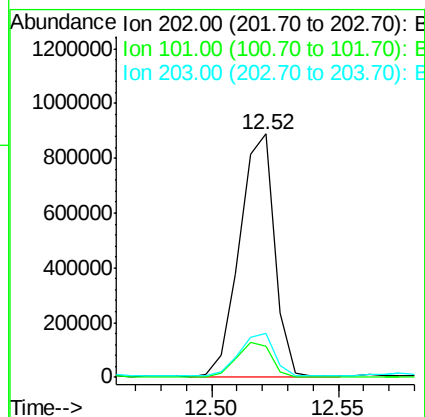
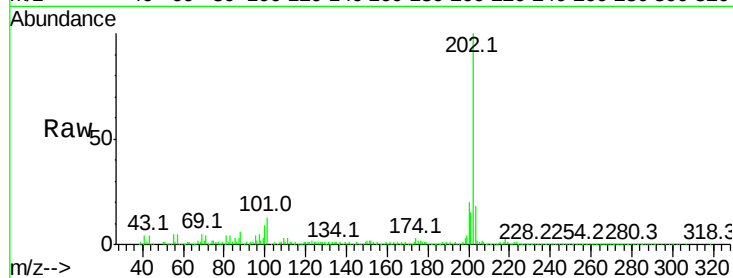
ClientSampleId :

E2-J9-WSW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.9	0.0	33.2
203	18.1	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

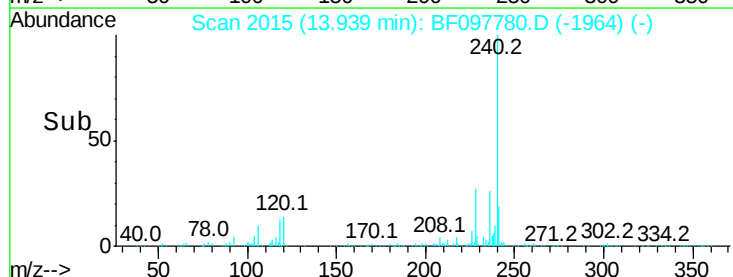
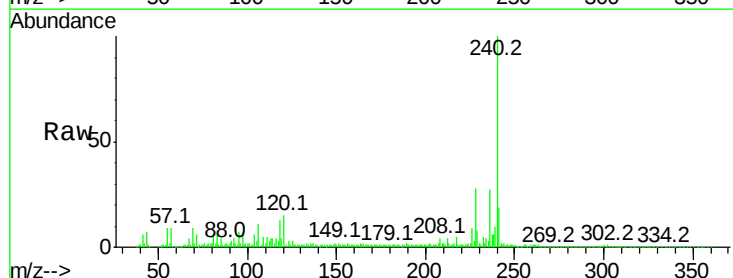
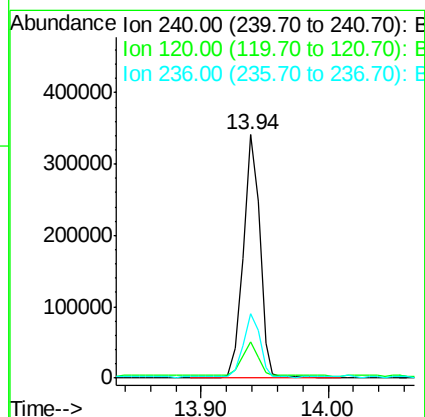
RT: 13.94 min Scan# 2015

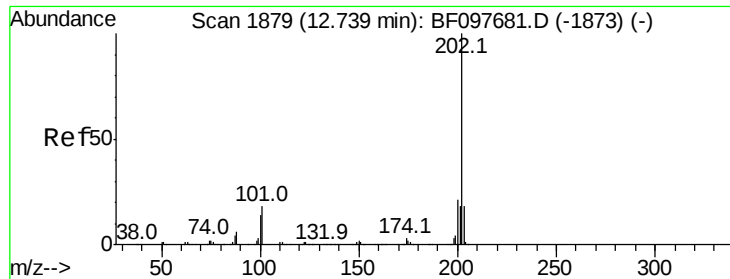
Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.9	5.8	8.8#
236	26.6	20.5	30.7





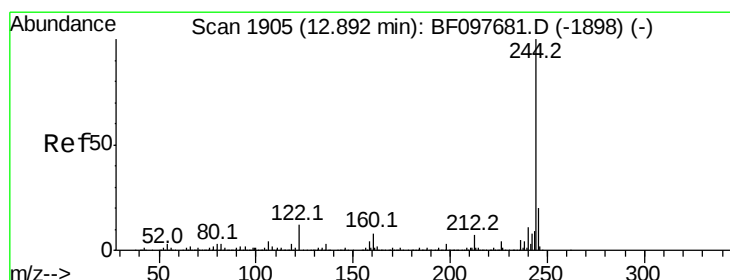
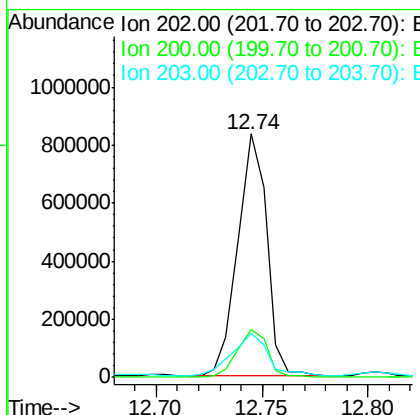
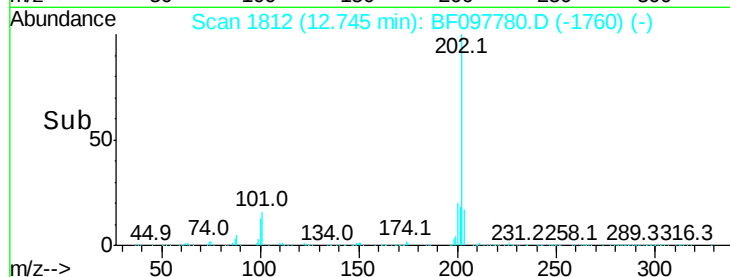
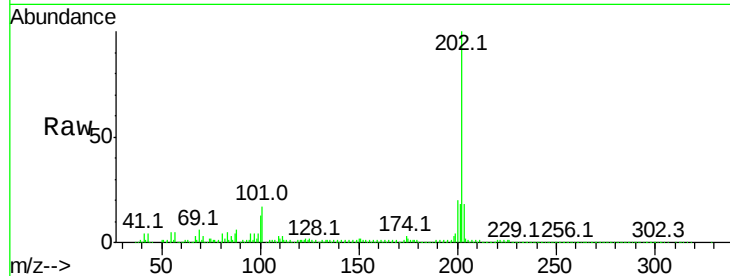
#77
Pvrene
Concen: 32.207 ng
RT: 12.74 min Scan# 1812
Delta R.T. 0.01 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	19.9	17.6	26.4
203	18.2	14.4	21.6

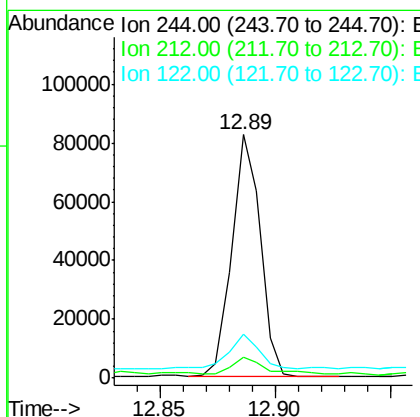
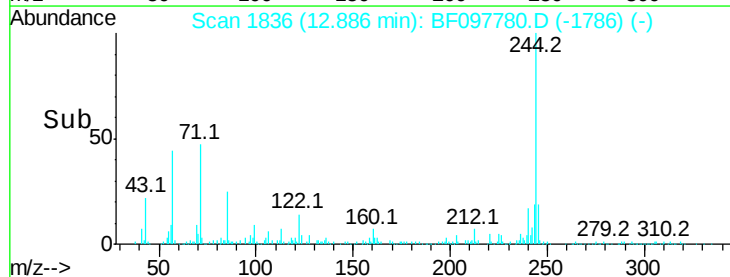
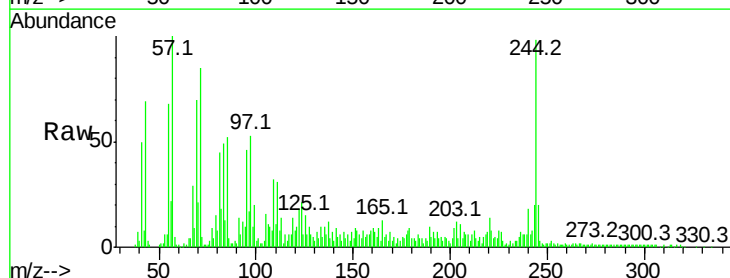
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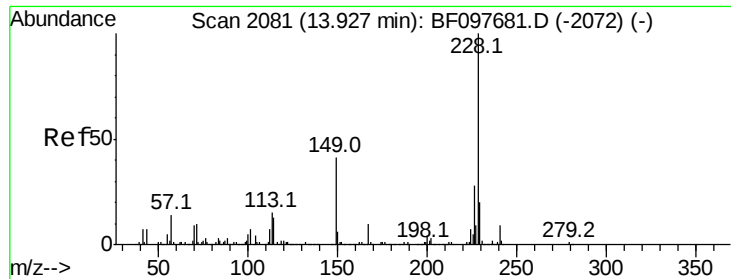
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#78
Terphenyl-d14
Concen: 4.835 ng
RT: 12.89 min Scan# 1836
Delta R.T. -0.01 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.6	6.0	9.0
122	18.1	10.3	15.5#





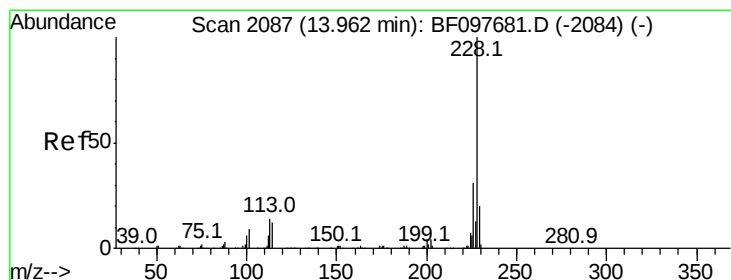
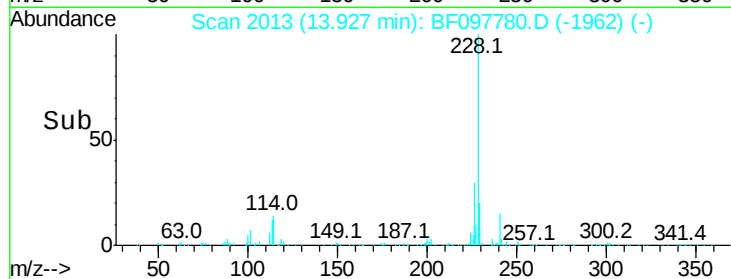
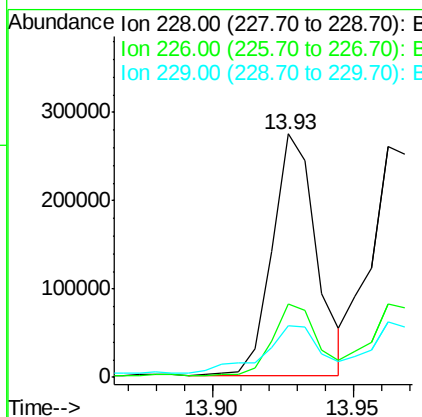
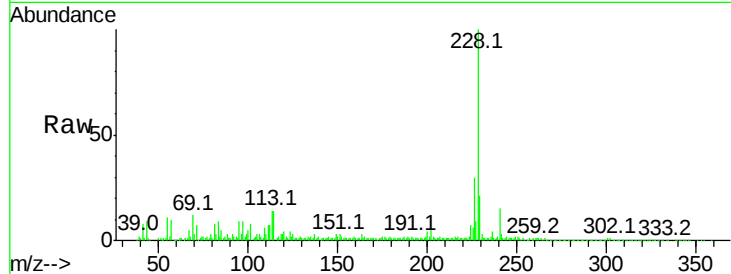
#80
Benzo(a)anthracene
Concen: 16.263 ng
RT: 13.93 min Scan# 2013
Delta R.T. -0.00 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.6	33.8
229	21.5	16.3	24.5

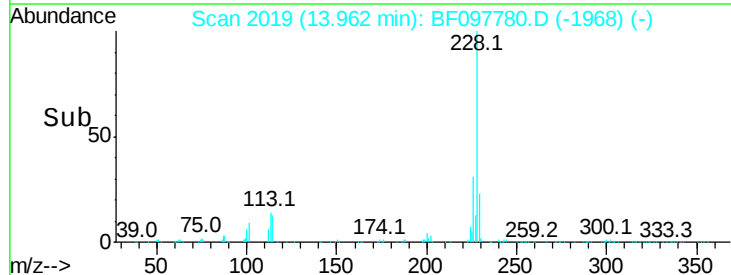
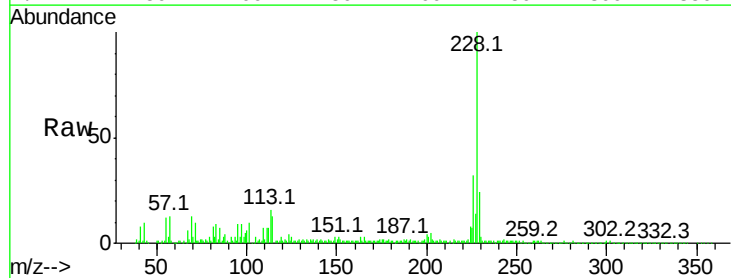
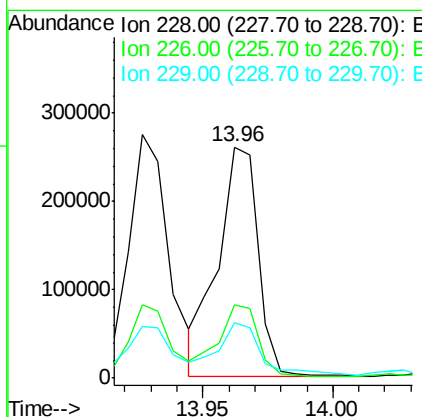
Manual Integrations
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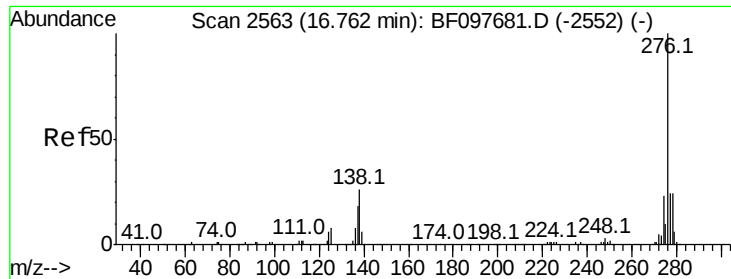
Sohil
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#82
Chrysene
Concen: 15.490 ng m
RT: 13.96 min Scan# 2019
Delta R.T. -0.00 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	24.2	15.8	23.6#





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.257 ng

RT: 16.76 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

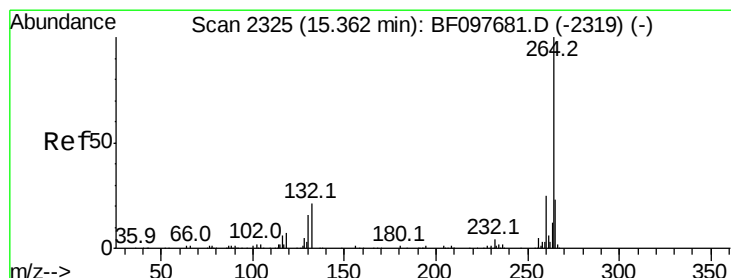
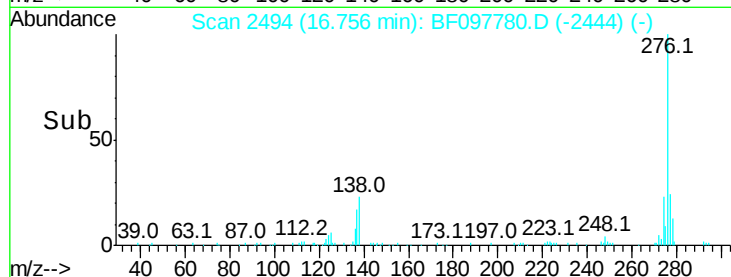
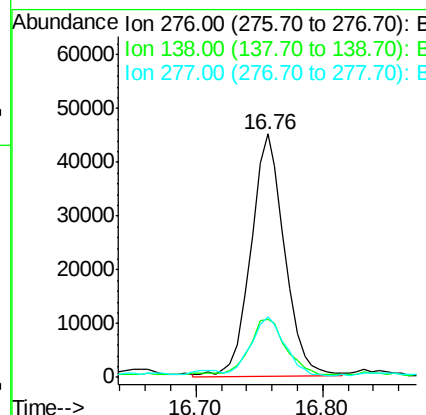
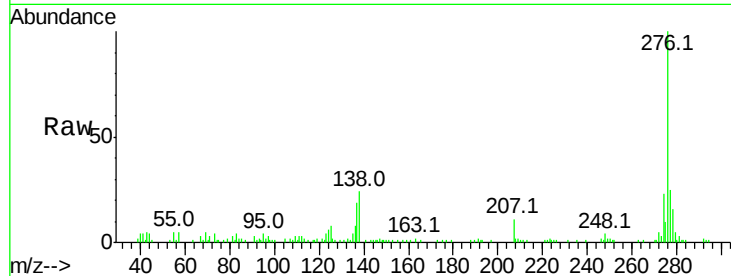
ClientSampleId :

E2-J9-WSW

Tot Ion:	276	Resp:	83469
Ion Ratio	Lower	Upper	
276	100		
138	24.6	27.8	41.6#
277	24.9	20.2	30.4

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#86

Perylene-d12

Concen: 20.000 ng

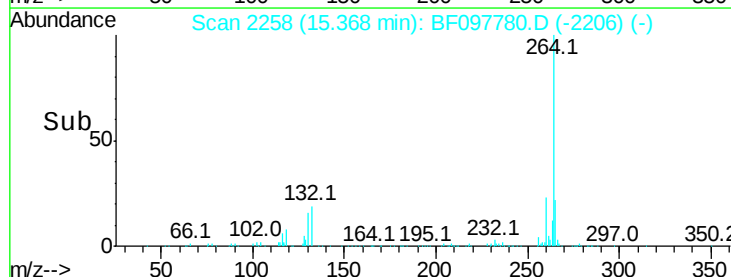
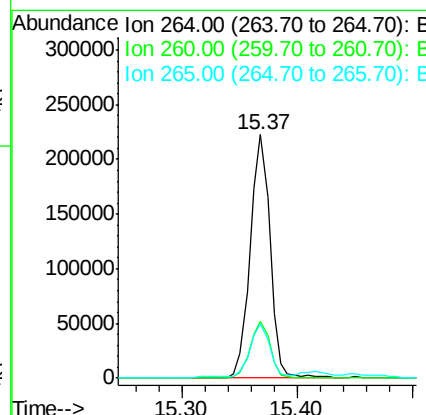
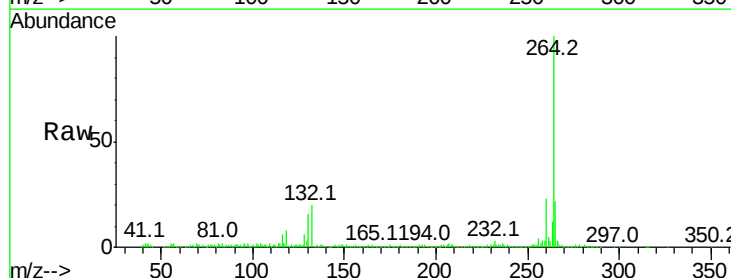
RT: 15.37 min Scan# 2258

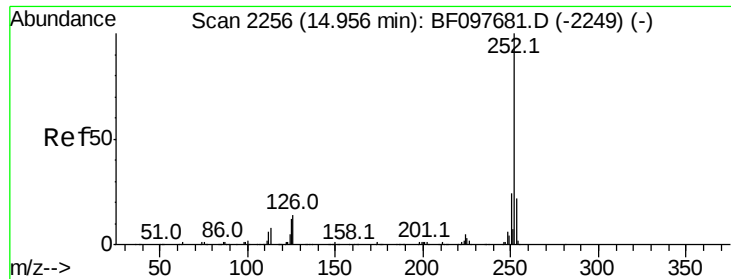
Delta R.T. 0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:	264	Resp:	267273
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.5	29.3
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 18.369 ng m

RT: 14.96 min Scan# 2188

Delta R.T. -0.00 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Instrument :

BNA_F

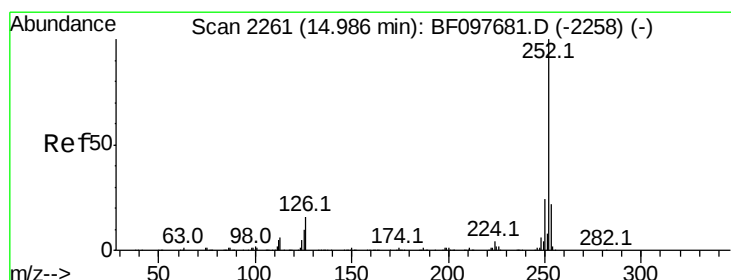
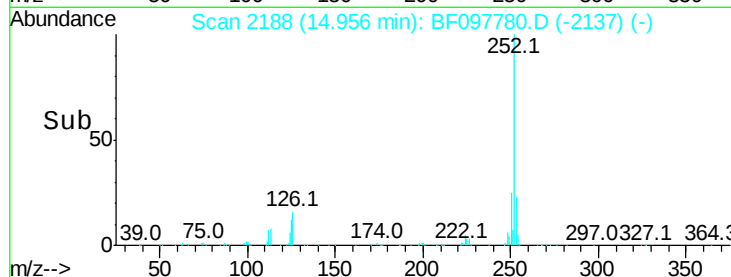
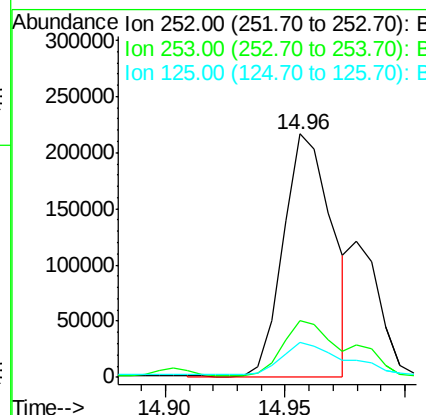
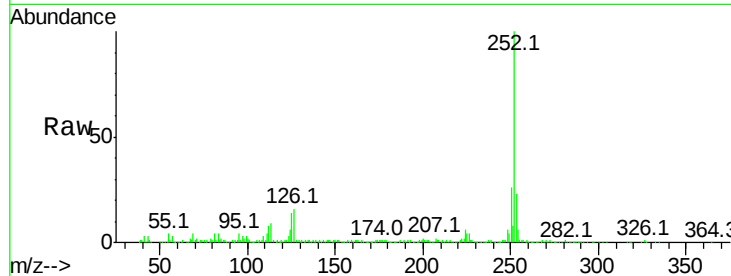
ClientSampled :

E2-J9-WSW

Tot Ion:	252	Resp:	309465
Ion Ratio	Lower	Upper	
252	100		
253	23.2	18.1	27.1
125	14.2	9.8	14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 6.441 ng m

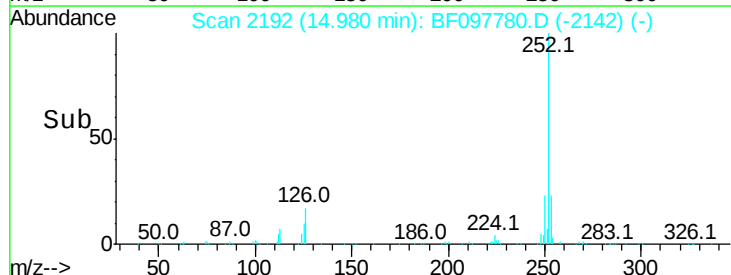
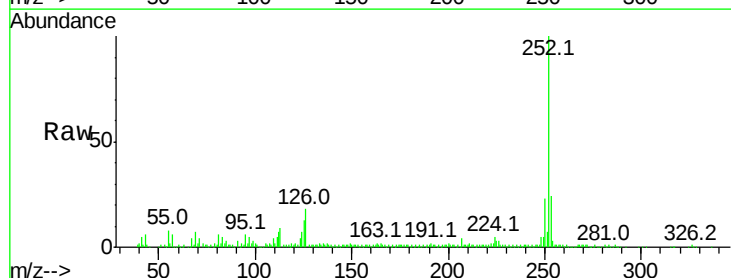
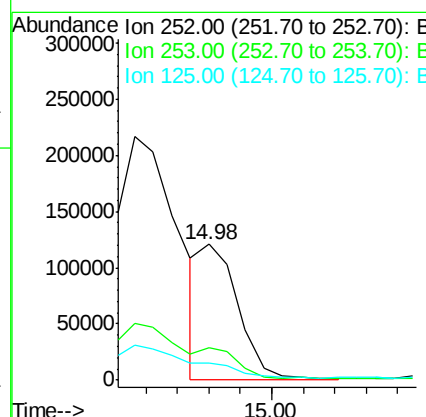
RT: 14.98 min Scan# 2192

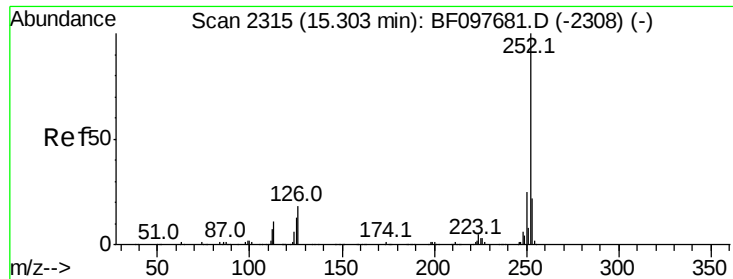
Delta R.T. -0.01 min

Lab File: BF097780.D

Acq: 17 Aug 2017 11:01

Tgt Ion:	252	Resp:	101940
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.4	27.6
125	12.8	13.1	19.7#





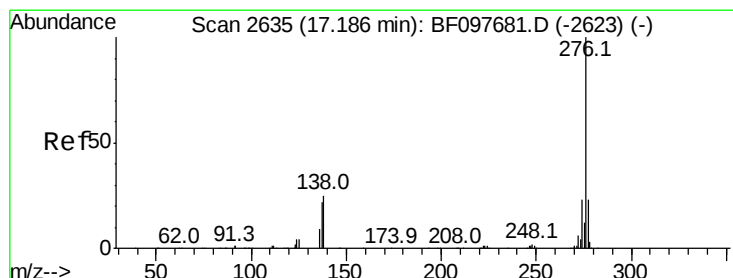
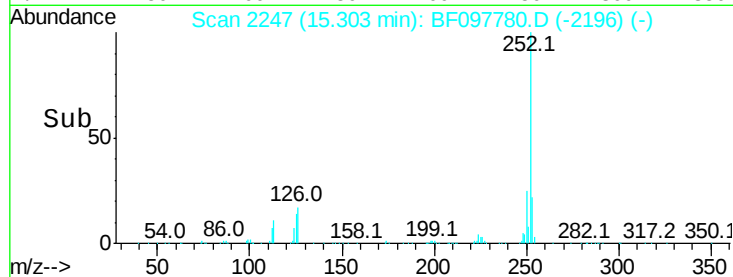
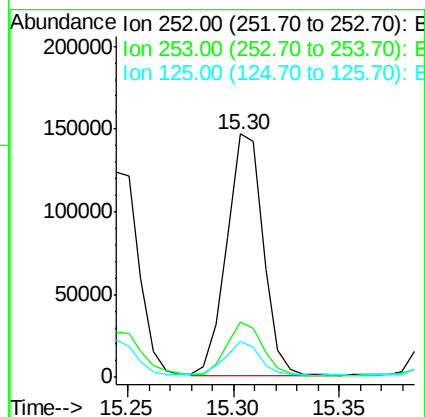
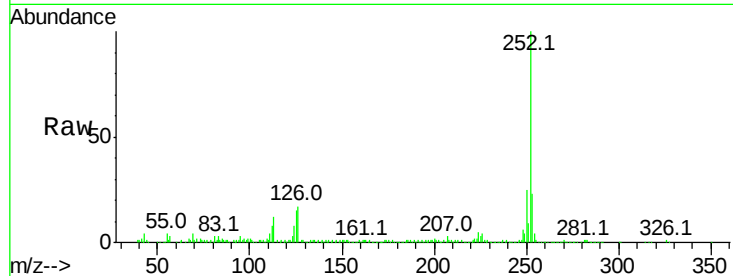
#89
Benzo(a)pyrene
Concen: 11.708 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.00 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Instrument :
BNA_F
ClientSampleId :
E2-J9-WSW

Tot Ion:	252	Resp:	174611
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.5	26.3
125	15.1	11.0	16.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 5.828 ng
RT: 17.17 min Scan# 2565
Delta R.T. -0.01 min
Lab File: BF097780.D
Acq: 17 Aug 2017 11:01

Tgt Ion:	276	Resp:	73839
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.6	28.0
138	26.7	25.4	38.0

