

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097757.D
 Acq On : 16 Aug 2017 23:50
 Operator : SJ/JU
 Sample : I4739-07 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-7

Manual Integrations
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Sohil
 8/17/2017 5:58:00 PM

Quant Time: Aug 17 06:43:28 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	171679	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	652762	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	262897	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	400528	20.00	ng	0.00
75) Chrysene-d12	13.94	240	300414	20.00	ng	0.00
86) Perylene-d12	15.37	264	254485	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	196239	17.39	ng	-0.01
7) Phenol-d6	6.40	99	266418	17.37	ng	-0.01
23) Nitrobenzene-d5	7.33	82	153500	12.77	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	32602	14.29	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	237643	13.28	ng	0.00
78) Terphenyl-d14	12.88	244	130864	9.08	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.09	128	106427	3.141	ng	99
51) Acenaphthene	9.85	154	83862	4.780	ng	98
54) Dibenzofuran	10.02	168	72957	3.103	ng	97
57) Fluorene	10.36	166	76506	4.209	ng	96
70) Phenanthrene	11.33	178	934533	43.786	ng	99
71) Anthracene	11.37	178	242257	11.191	ng	98
72) Carbazole	11.53	167	61799	3.008	ng	98
74) Fluoranthene	12.52	202	1036449	46.525	ng	99
77) Pyrene	12.75	202	1020862	41.548	ng	99
80) Benzo(a)anthracene	13.93	228	456797	25.371	ng	99
82) Chrysene	13.96	228	427757	23.883	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	161202	12.235	ng	# 89
87) Benzo(b)fluoranthene	14.96	252	489704m	30.528	ng	
88) Benzo(k)fluoranthene	14.98	252	154059m	10.223	ng	
89) Benzo(a)pyrene	15.31	252	354164	24.940	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	38951m	3.369	ng	
91) Benzo(g,h,i)perylene	17.19	276	152022	12.602	ng	# 91

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

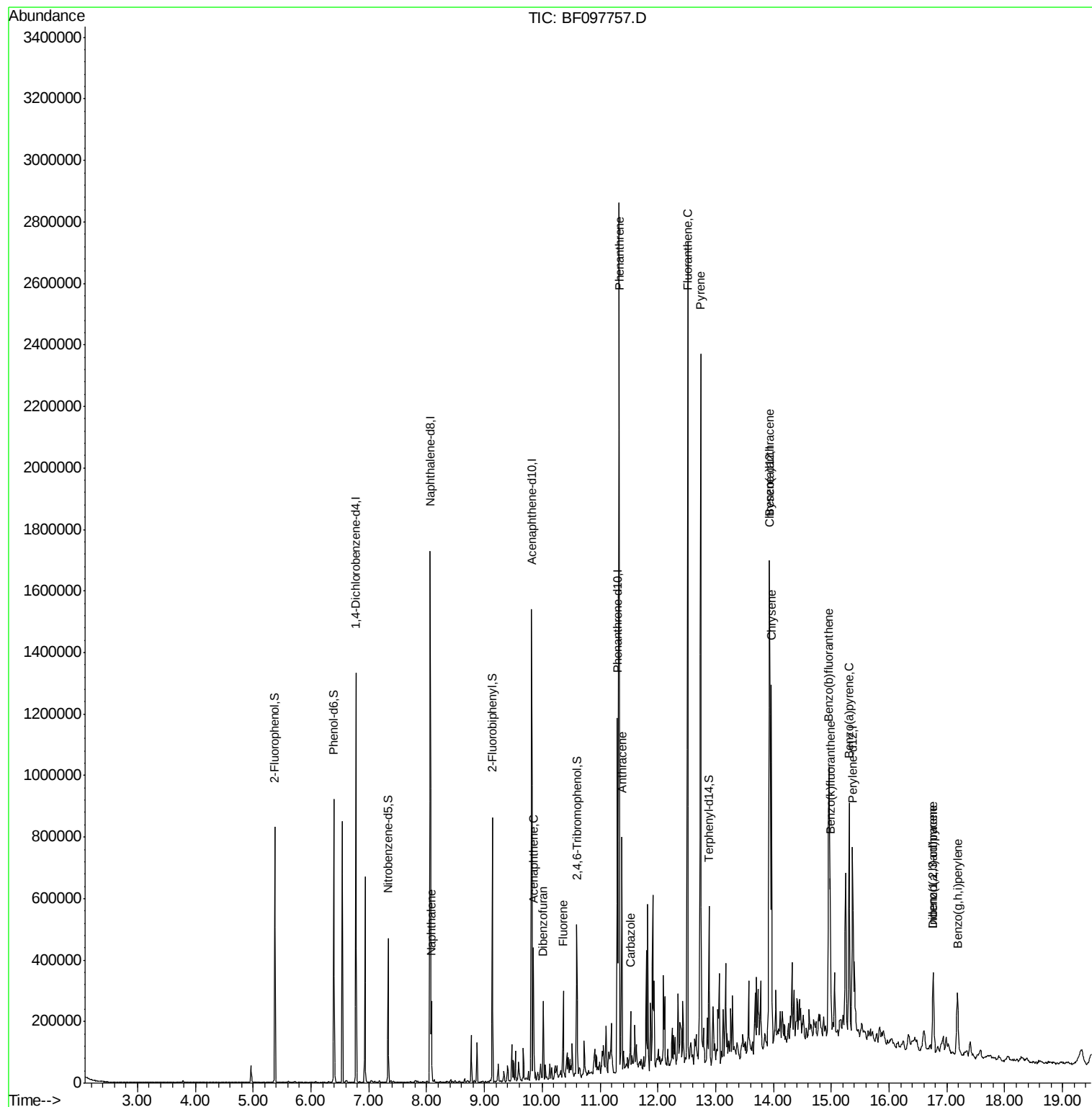
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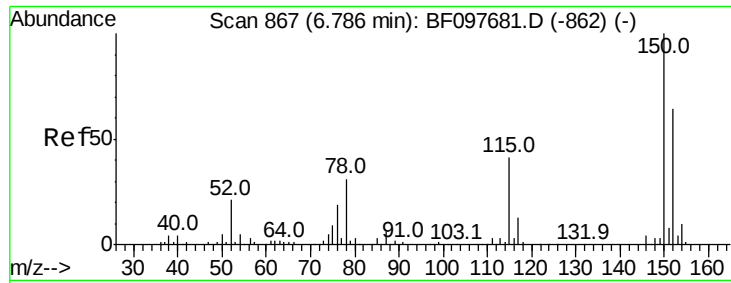
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#1

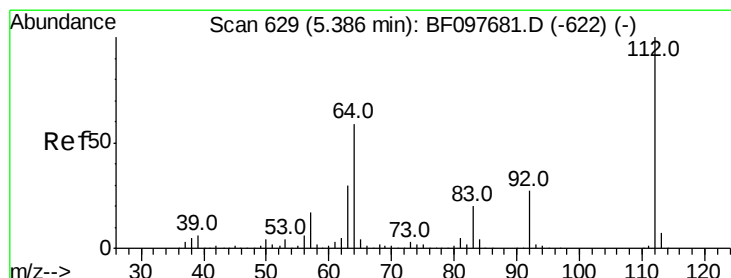
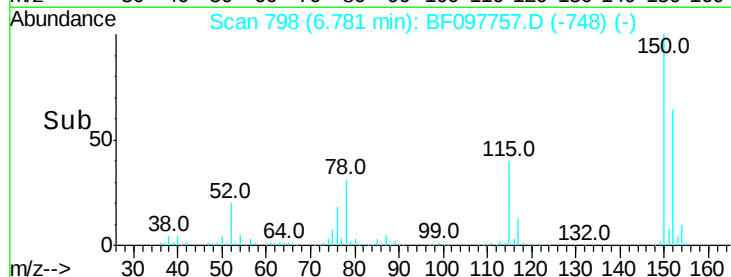
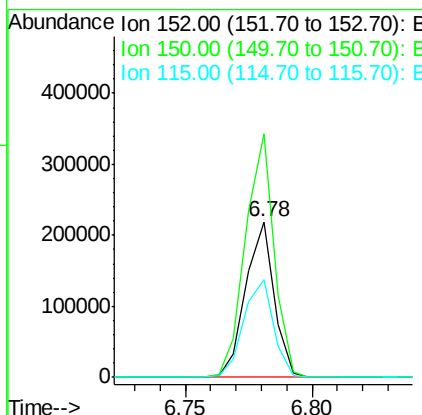
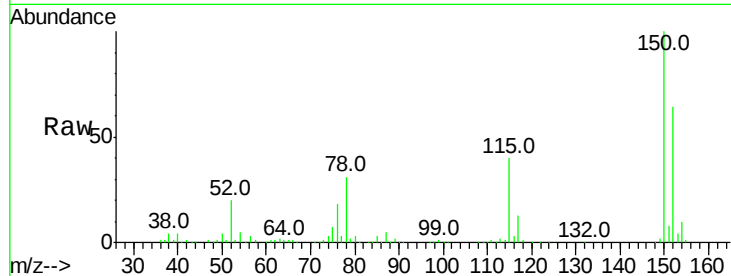
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.2	189.2
115	63.2	52.2	78.2

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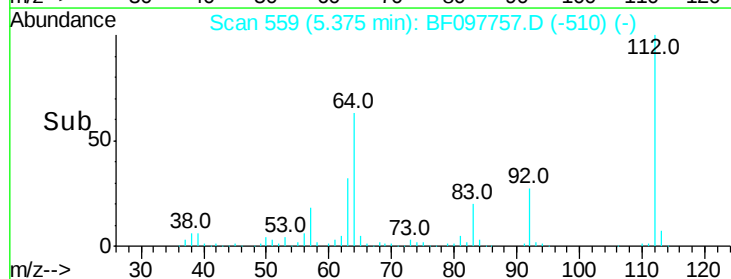
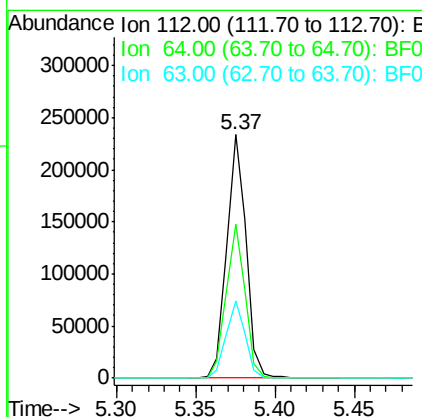
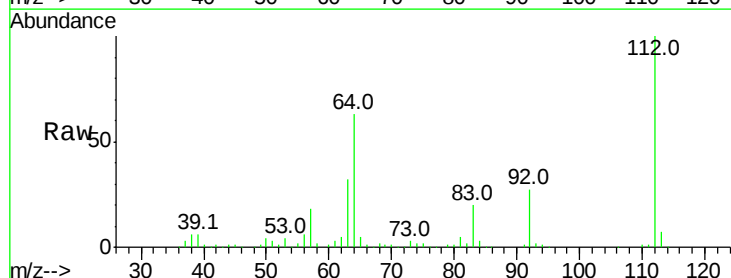
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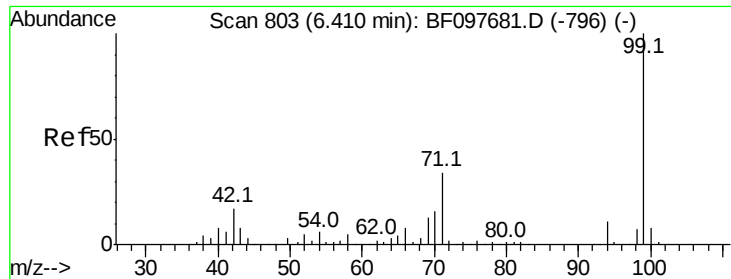


#5

2-Fluorophenol
Concen: 17.387 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	46.0	69.0
63	31.8	23.4	35.0





#7

Phenol-d6

Concen: 17.373 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Instrument :

BNA_F

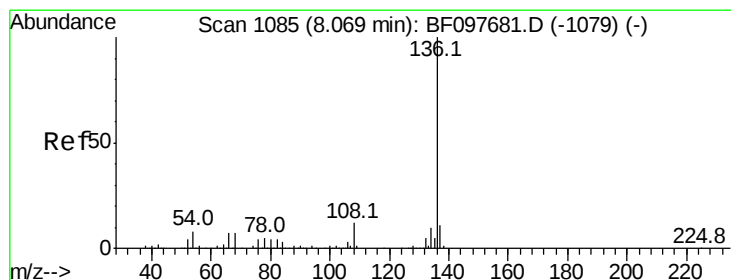
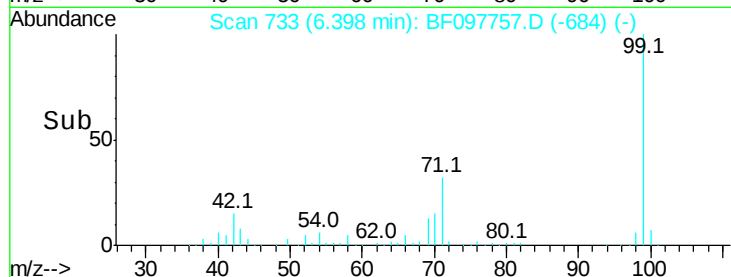
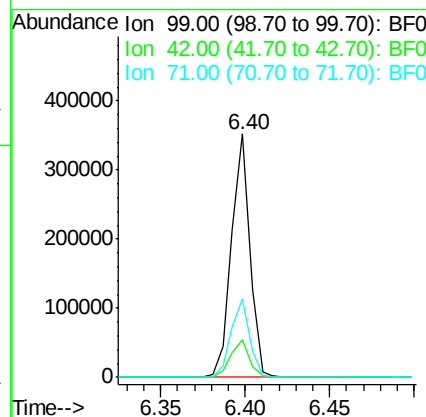
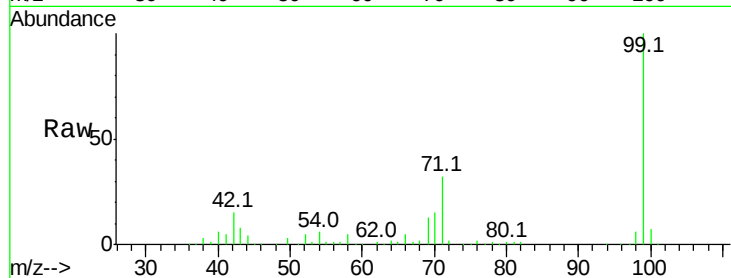
ClientSampleId :

S11-WC-7

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		266418		
42	15.4	13.5	20.3		
71	32.2	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

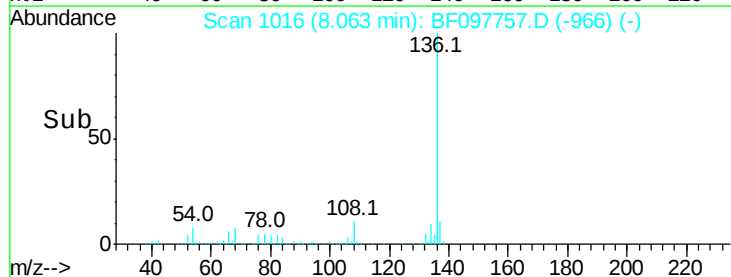
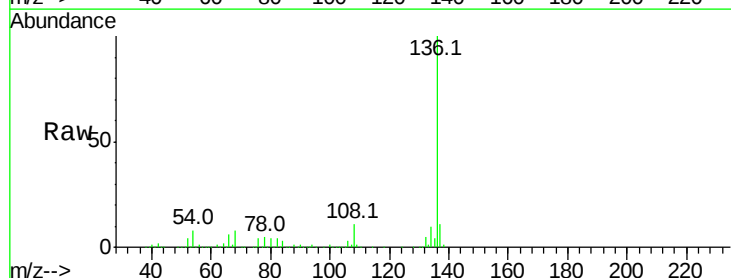
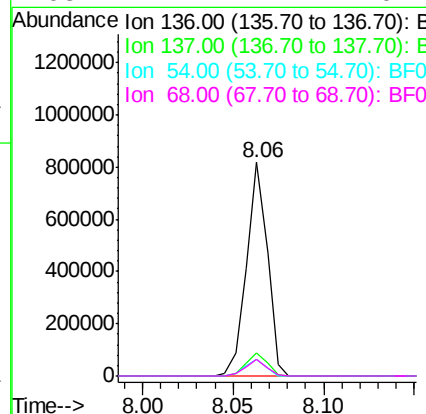
RT: 8.06 min Scan# 1016

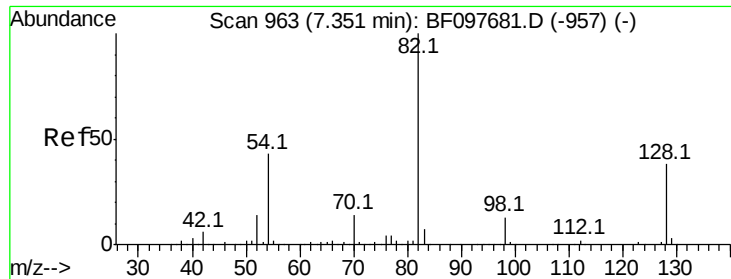
Delta R.T. -0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		652762		
137	10.9	8.5	12.7		
54	7.7	4.9	7.3#		
68	7.7	4.1	6.1#		





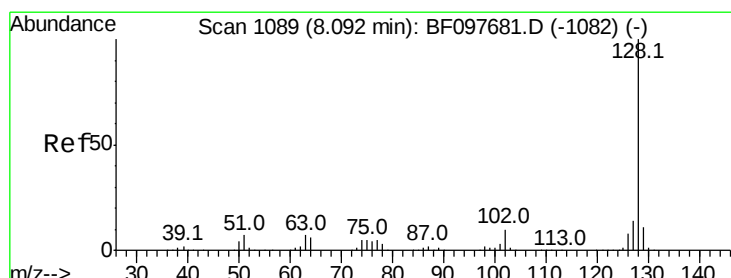
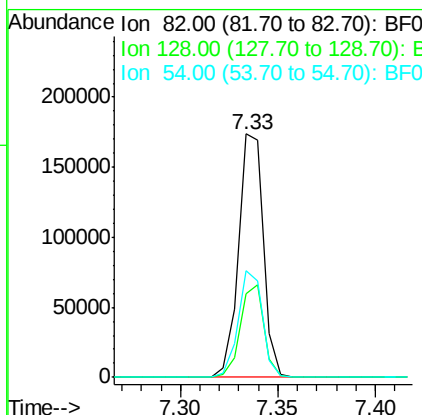
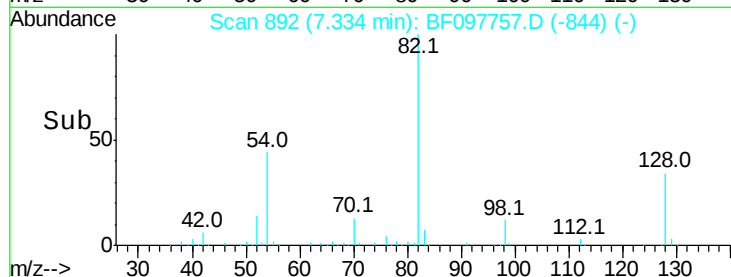
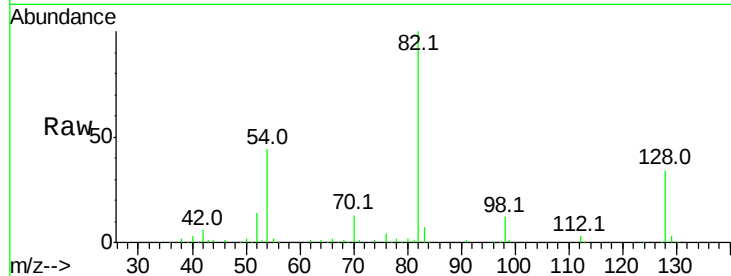
#23
 Nitrobenzene-d5
 Concen: 12.775 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-7

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	34.4	34.0	51.0	
54	43.9	42.2	63.2	

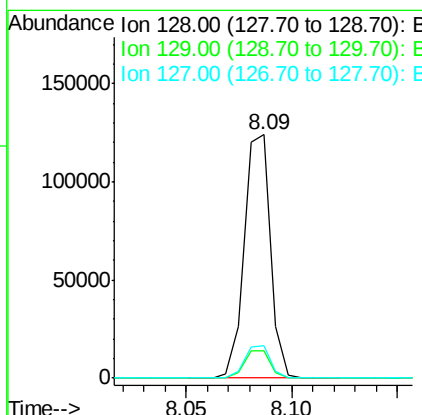
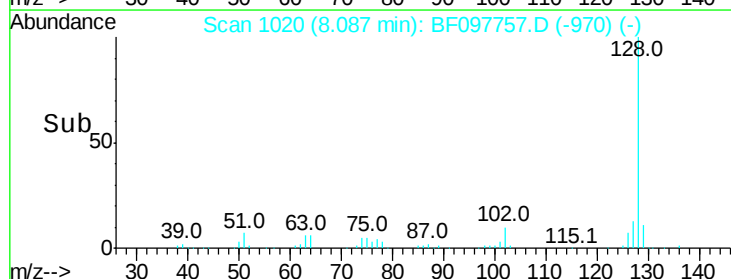
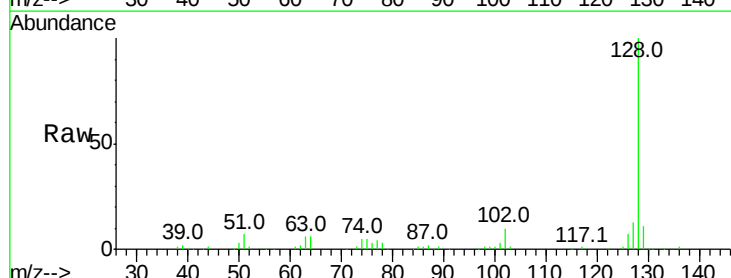
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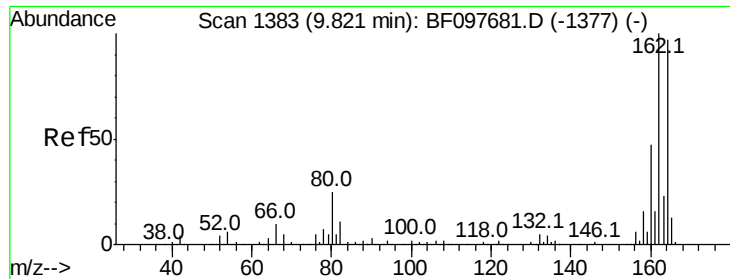
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#31
 Naphthalene
 Concen: 3.141 ng
 RT: 8.09 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.0	9.0	13.6	
127	13.1	10.8	16.2	





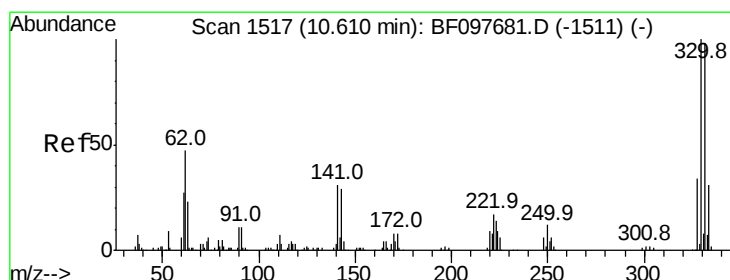
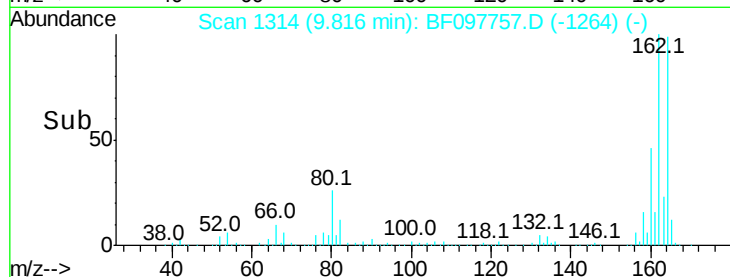
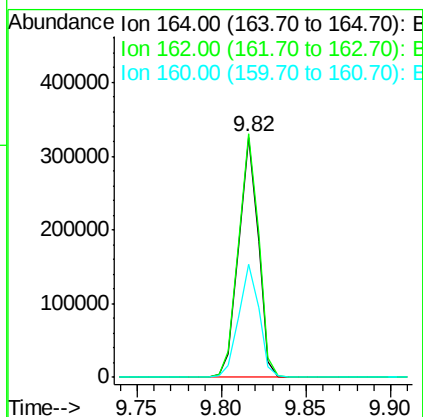
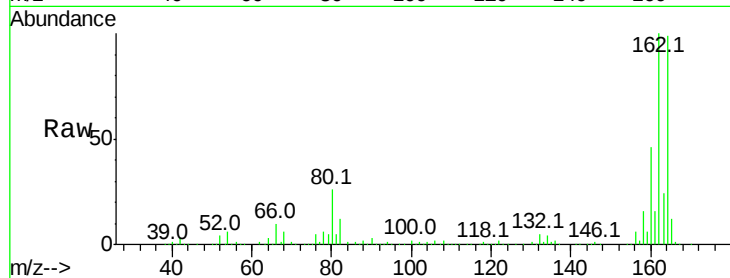
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Resp	Lower	Upper
164	100	262897		
162	101.4	82.6	123.8	
160	47.0	36.2	54.2	

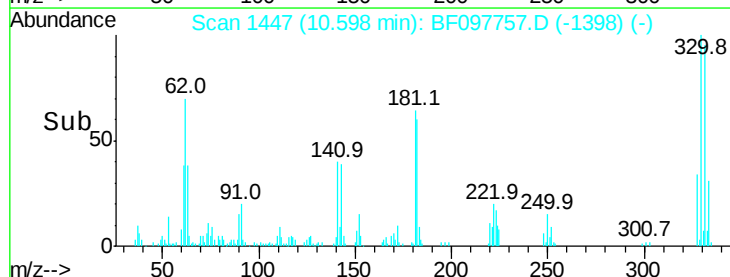
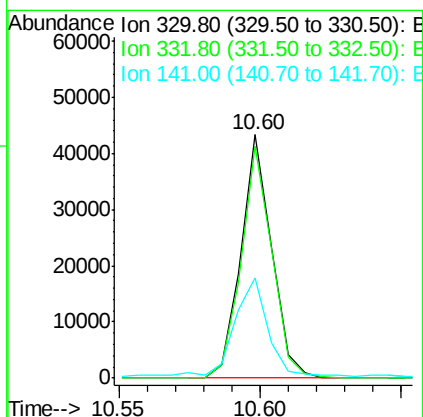
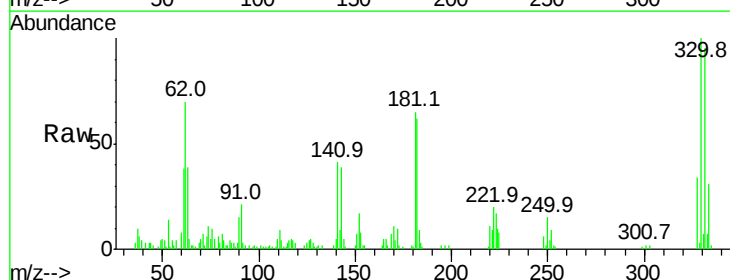
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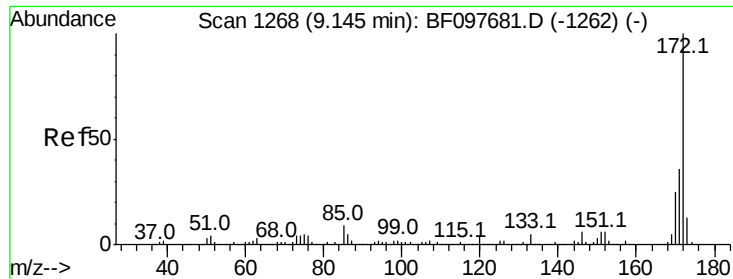
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#41
2,4,6-Tribromophenol
Concen: 14.292 ng
RT: 10.60 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	32602		
332	95.5	76.6	115.0	
141	44.7	31.4	47.2	





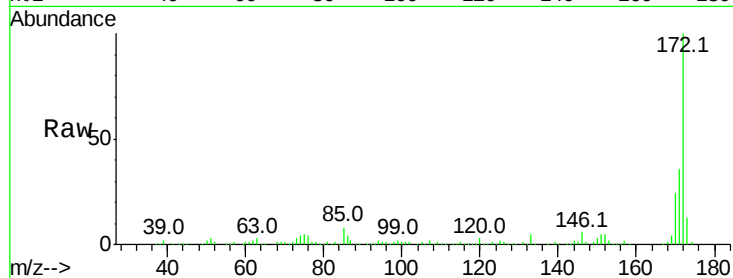
#44
 2-Fluorobiphenyl
 Concen: 13.281 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-7

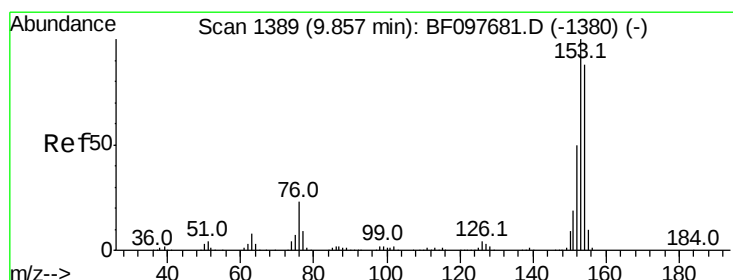
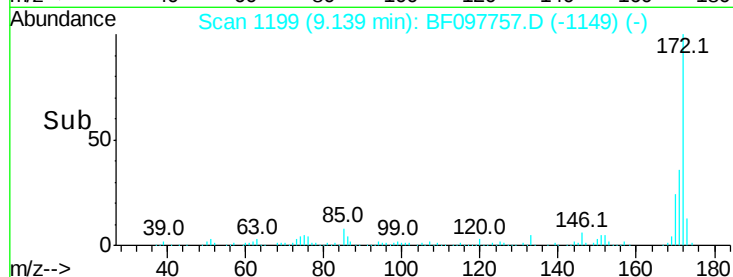
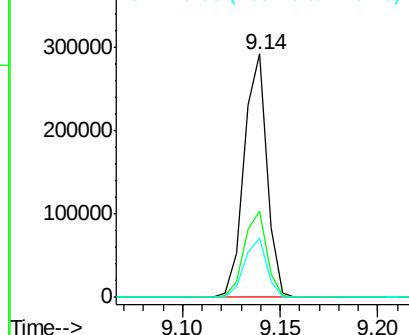
Tot Ion:	172	Resp:	237643
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.6	44.4
170	24.1	19.8	29.8

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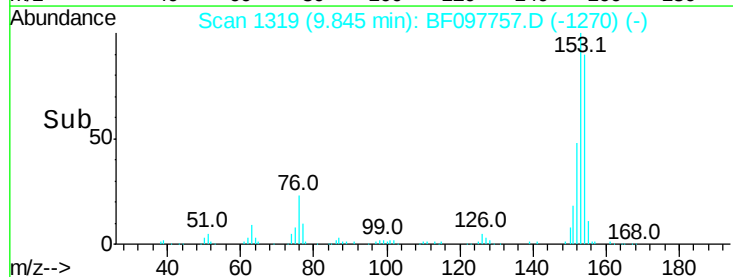
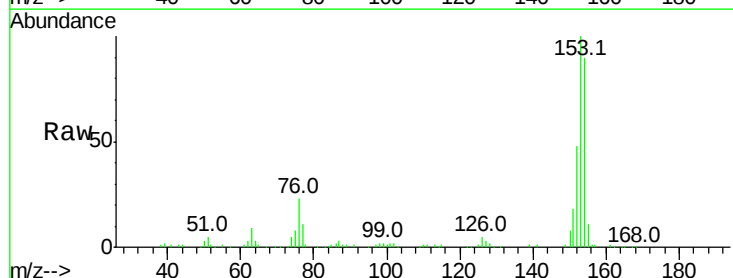
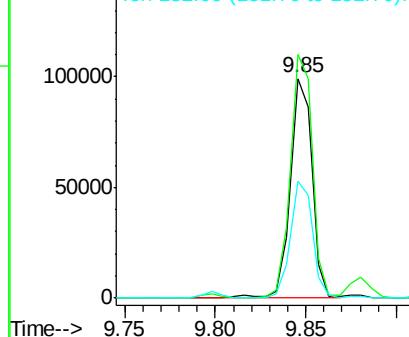
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

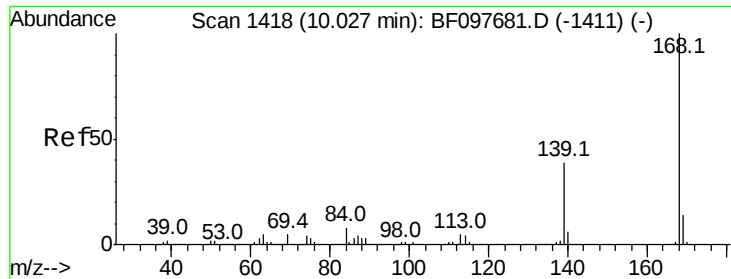


#51
 Acenaphthene
 Concen: 4.780 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Tgt Ion:	154	Resp:	83862
Ion Ratio	Lower	Upper	
154	100		
153	110.9	90.5	135.7
152	53.3	43.6	65.4

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





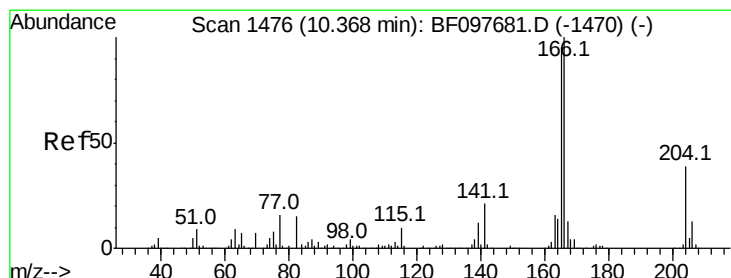
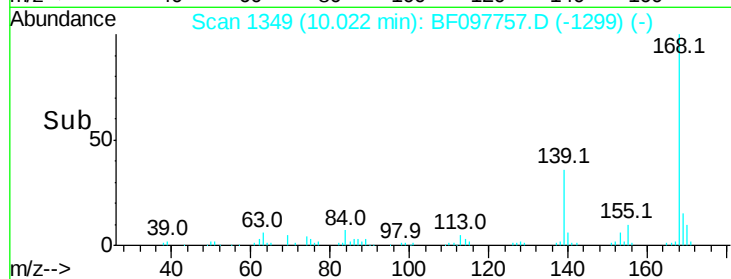
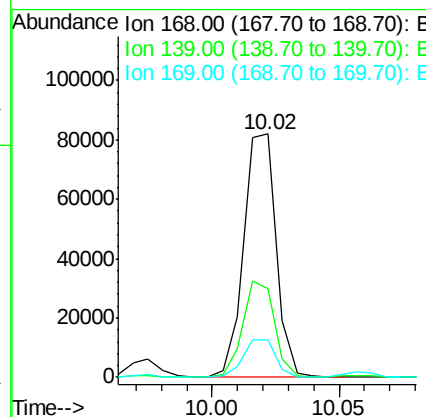
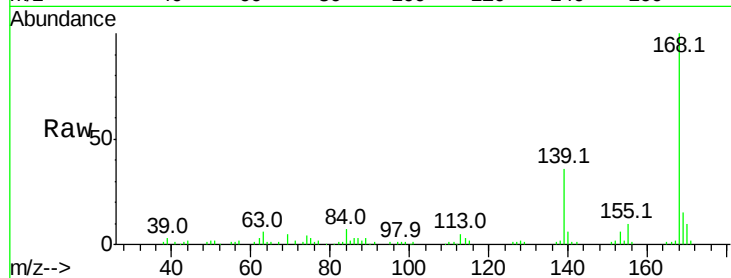
#54
Dibenzenofuran
Concen: 3.103 ng
RT: 10.02 min Scan# 1349
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampled :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.4	30.6	45.8
169	15.3	10.8	16.2

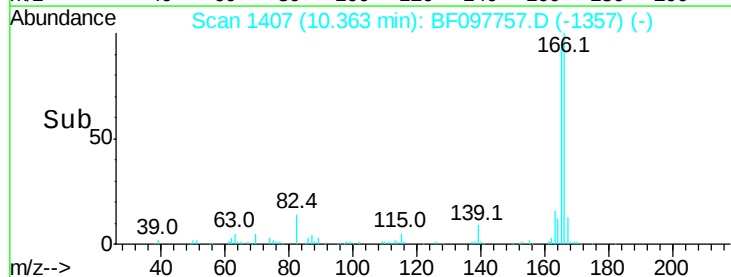
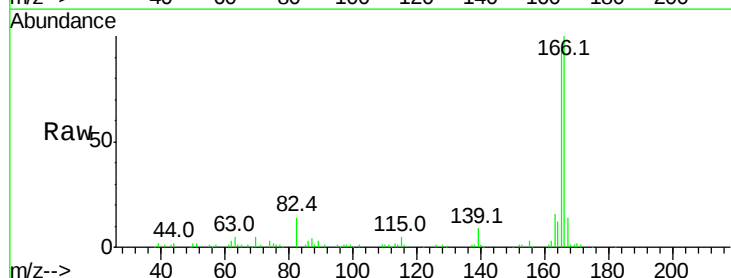
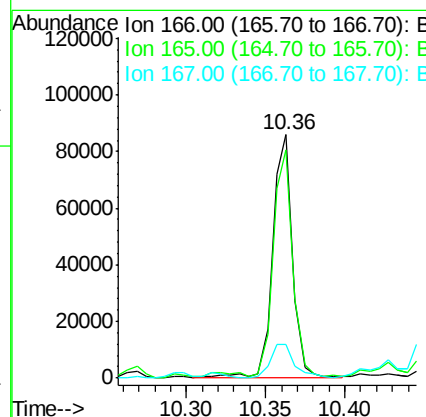
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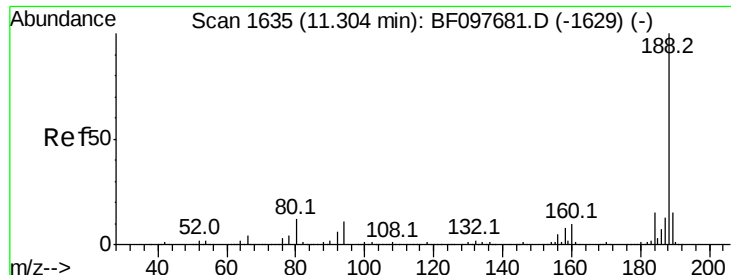
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#57
Fluorene
Concen: 4.209 ng
RT: 10.36 min Scan# 1407
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.0	78.8	118.2
167	13.9	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Instrument :

BNA_F

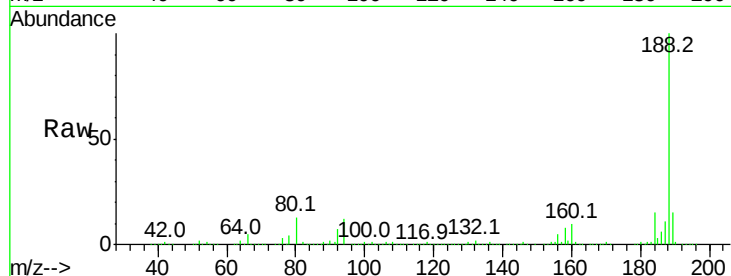
ClientSampleId :

S11-WC-7

Tot Ion:	188	Resp:	400528
Ion Ratio	Lower	Upper	
188	100		
94	12.5	9.4	14.2
80	13.4	10.2	15.2

Manual Integrations
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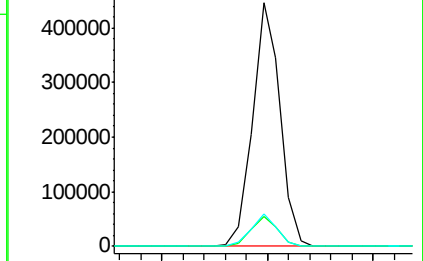
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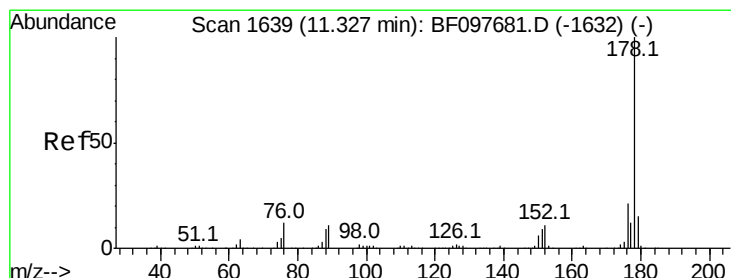
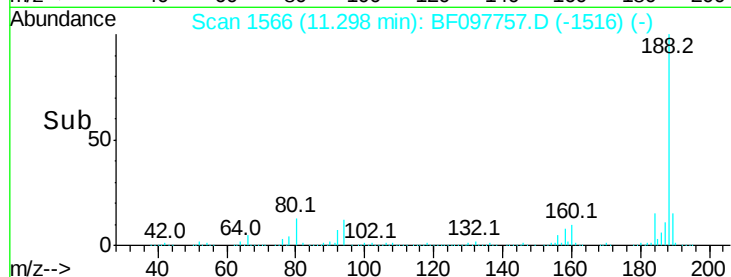
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time--> 11.25 11.30 11.35



#70

Phenanthrene

Concen: 43.786 ng

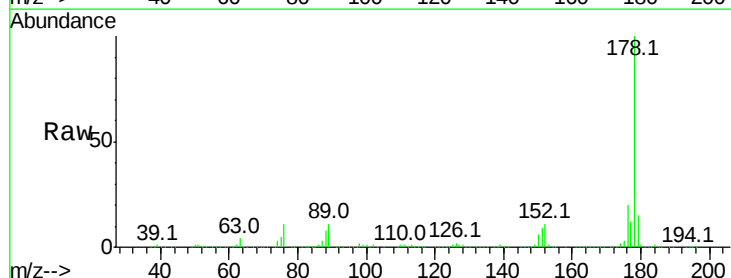
RT: 11.33 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

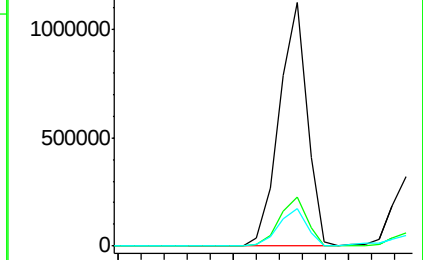
Tgt Ion:	178	Resp:	934533
Ion Ratio	Lower	Upper	
178	100		
176	20.1	16.2	24.4
179	15.4	12.6	19.0



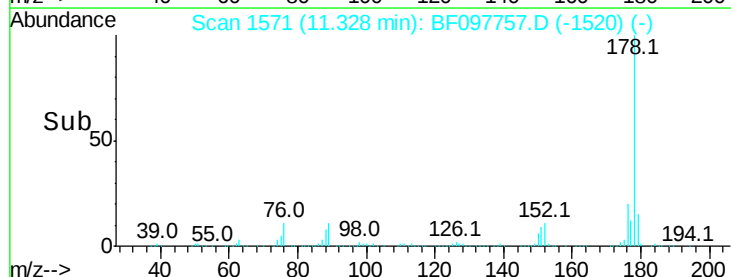
Abundance Ion 178.00 (177.70 to 178.70): E

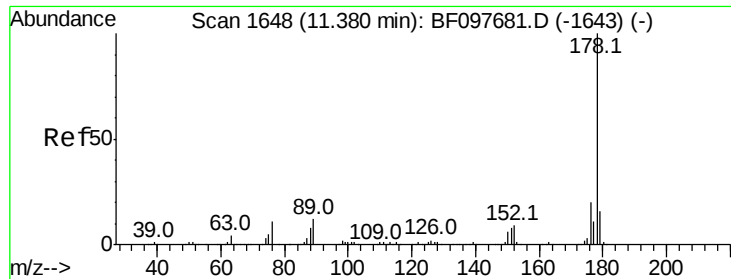
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 11.25 11.30 11.35





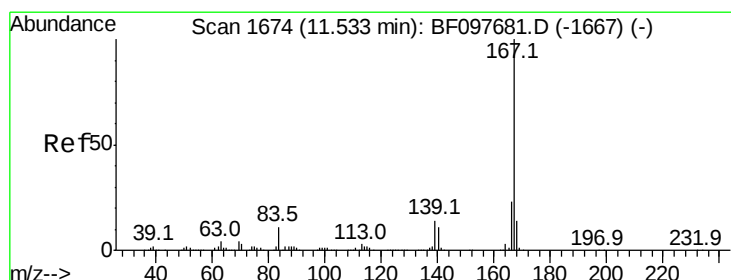
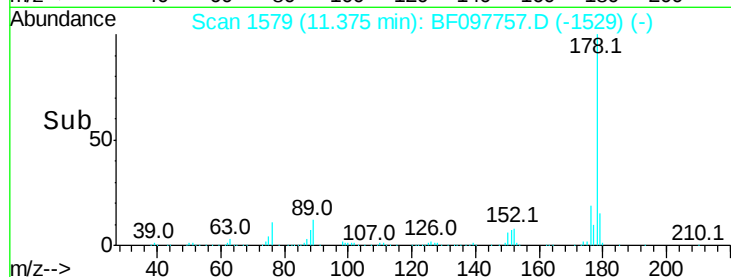
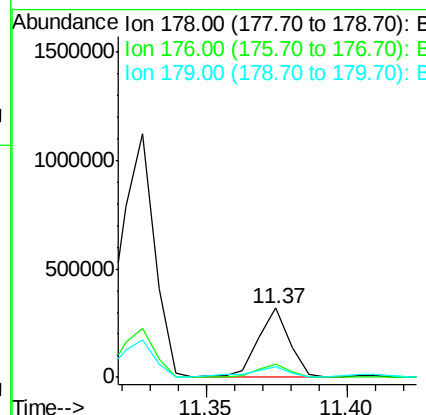
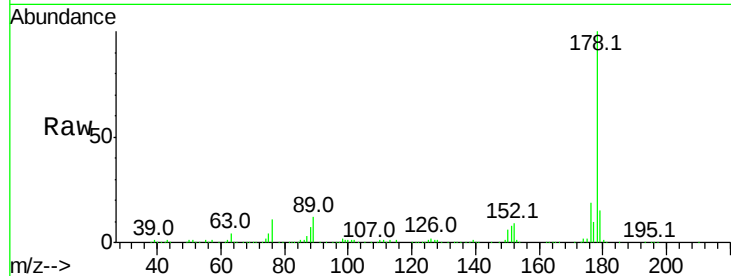
#71
 Anthracene
 Concen: 11.191 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Instrument :
 BNA_F
 ClientSampled :
 S11-WC-7

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.2	12.7	19.1

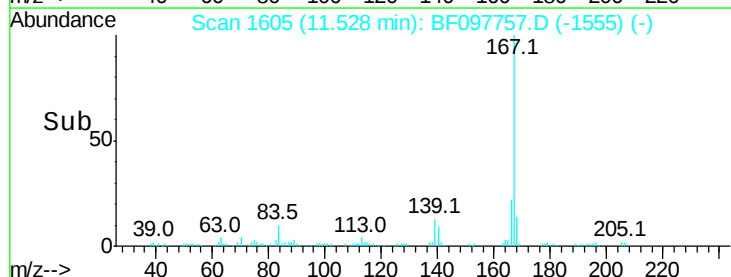
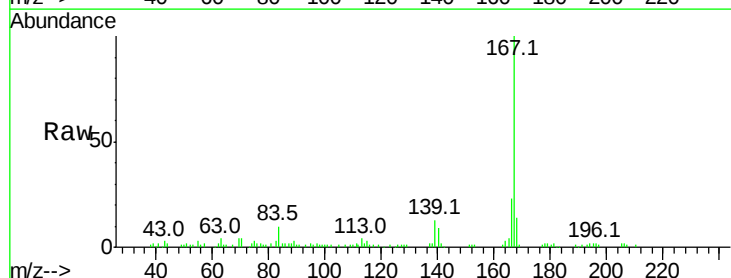
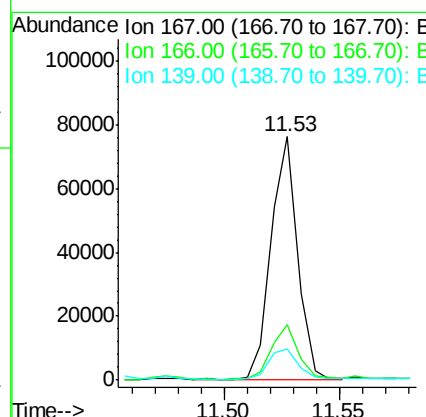
Manual Integrations
 APPROVED

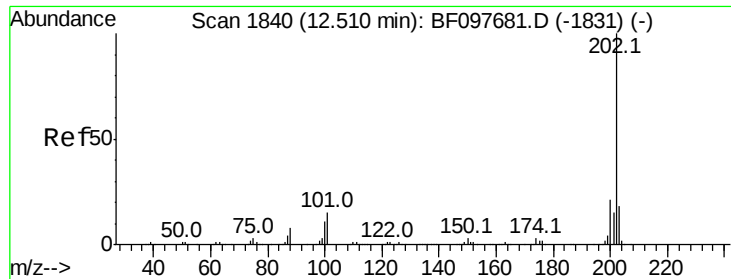
Sohil
 8/17/2017 5:58:00 PM



#72
 Carbazole
 Concen: 3.008 ng
 RT: 11.53 min Scan# 1605
 Delta R.T. -0.01 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.8	18.1	27.1
139	13.0	11.7	17.5





#74

Fluoranthene

Concen: 46.525 ng

RT: 12.52 min Scan# 1773

Delta R.T. 0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Instrument :

BNA_F

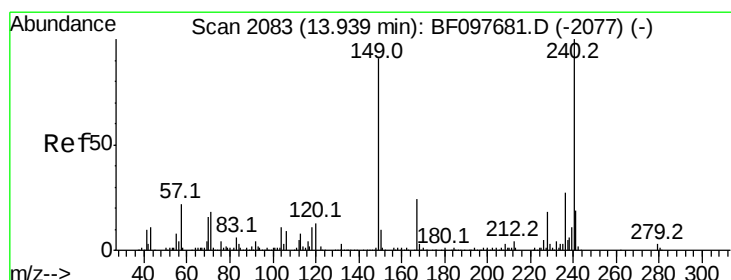
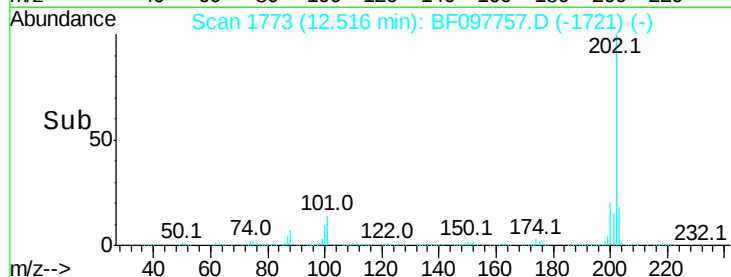
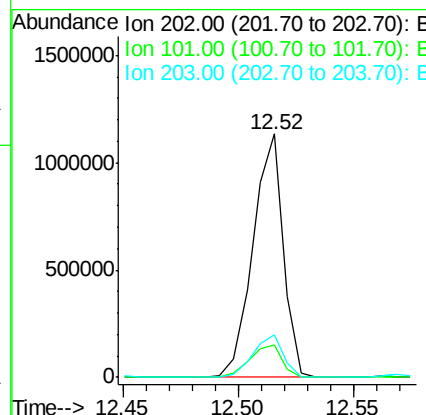
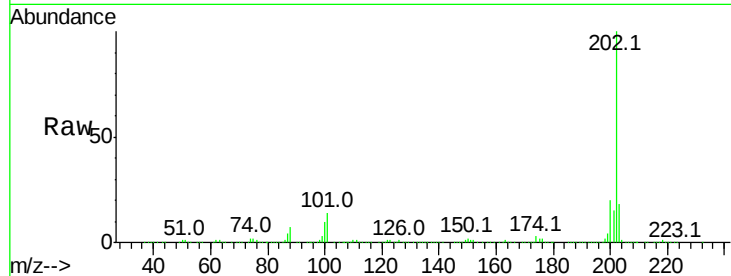
ClientSampleId :

S11-WC-7

Tot Ion:	202	Resp:	1036449
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	33.2
203	17.6	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

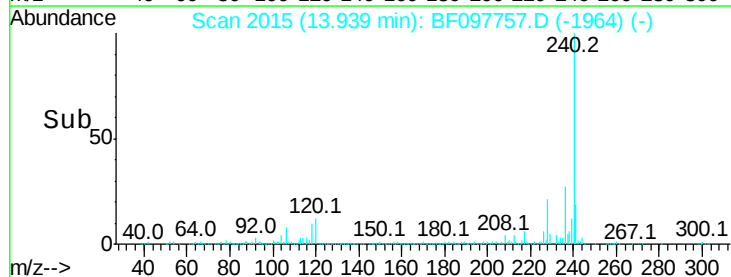
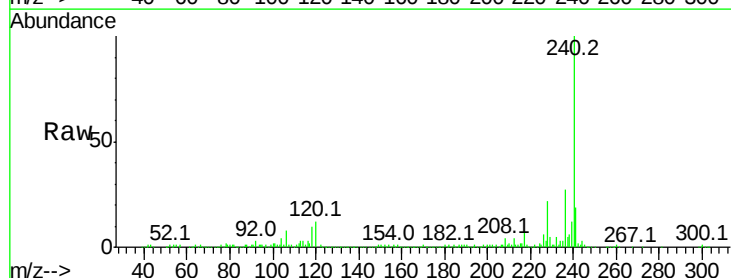
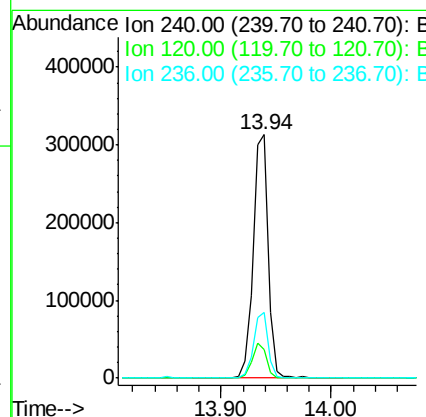
RT: 13.94 min Scan# 2015

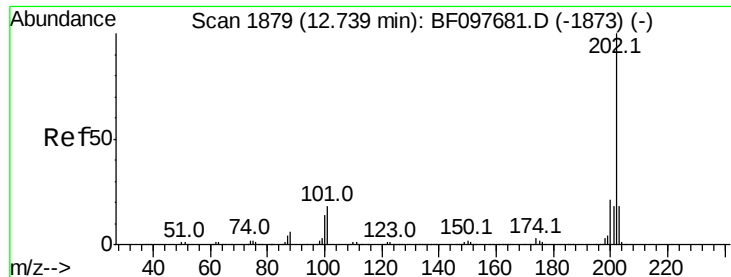
Delta R.T. 0.00 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Tgt Ion:	240	Resp:	300414
Ion Ratio	Lower	Upper	
240	100		
120	11.5	5.8	8.8#
236	26.9	20.5	30.7





#77

Pvrene

Concen: 41.548 ng

RT: 12.75 min Scan# 1812

Delta R.T. 0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

Instrument :

BNA_F

ClientSampleId :

S11-WC-7

Tot Ion:202 Resp: 1020862

Ion Ratio Lower Upper

202 100

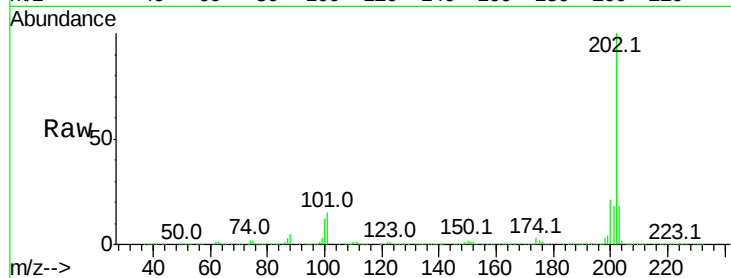
200 20.7 17.6 26.4

203 18.0 14.4 21.6

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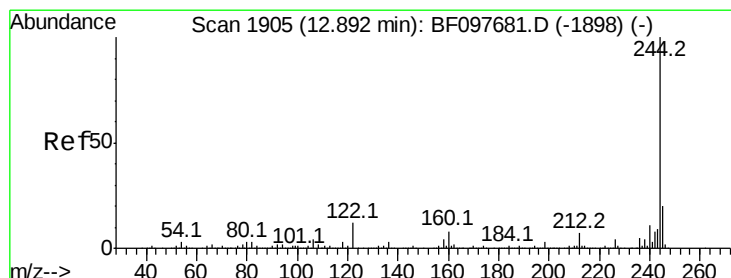
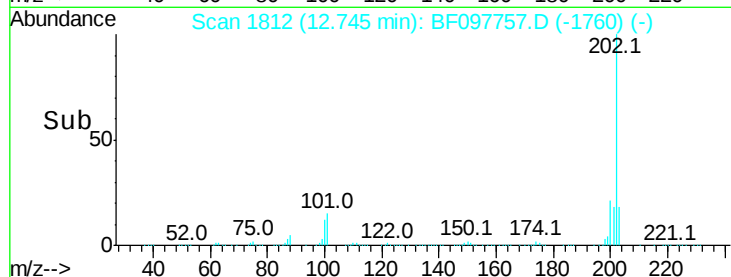
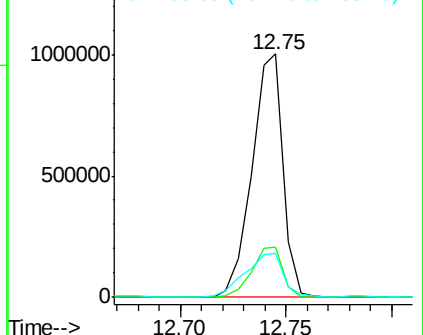
8/17/2017 5:58:00 PM



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: 9.084 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097757.D

Acq: 16 Aug 2017 23:50

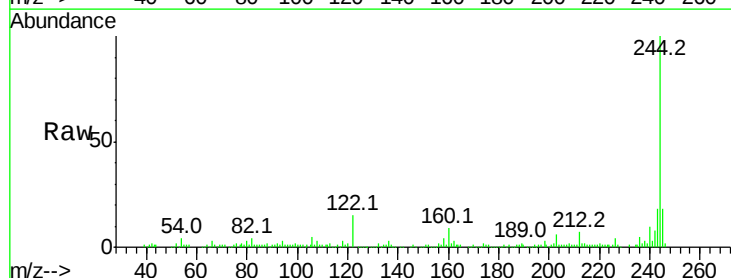
Tgt Ion:244 Resp: 130864

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

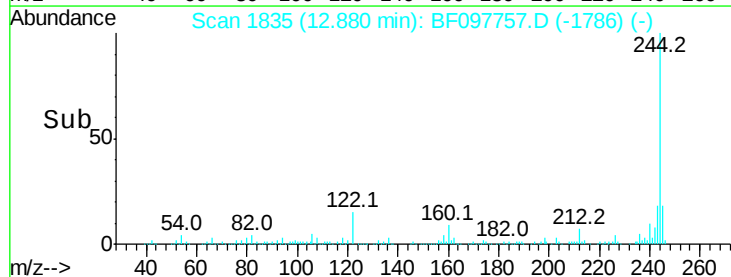
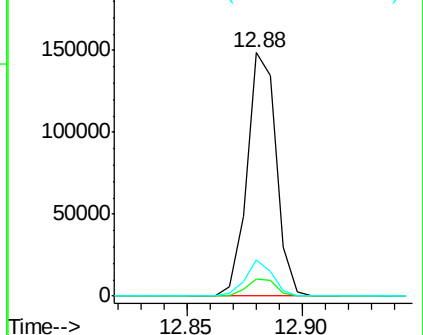
122 15.1 10.3 15.5

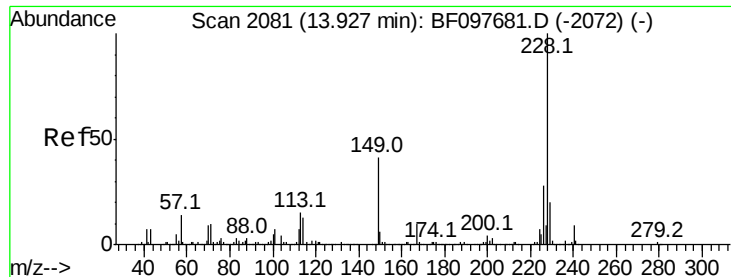


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





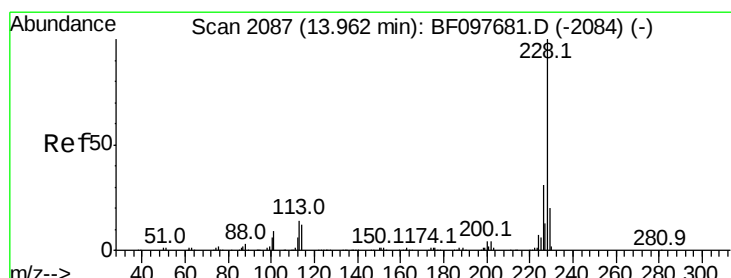
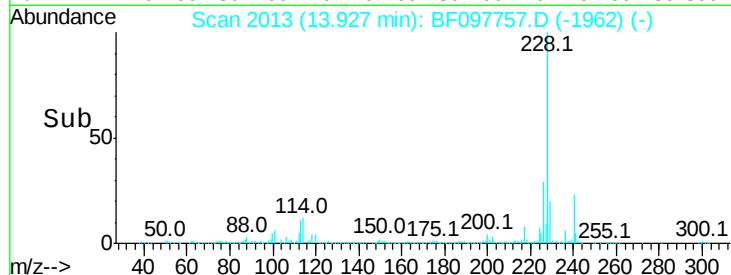
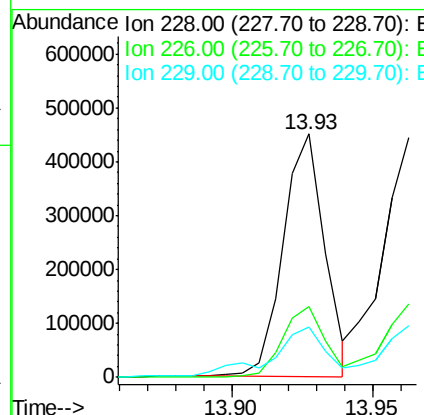
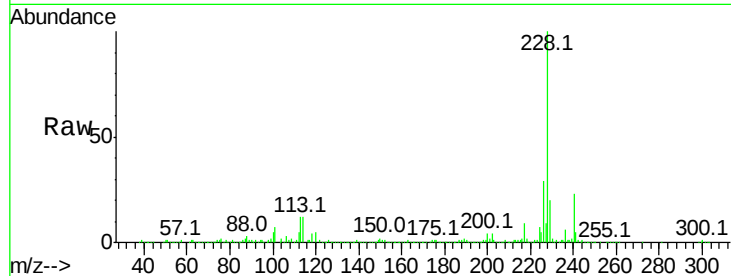
#80
Benzo(a)anthracene
Concen: 25.371 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.00 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	20.5	16.3	24.5

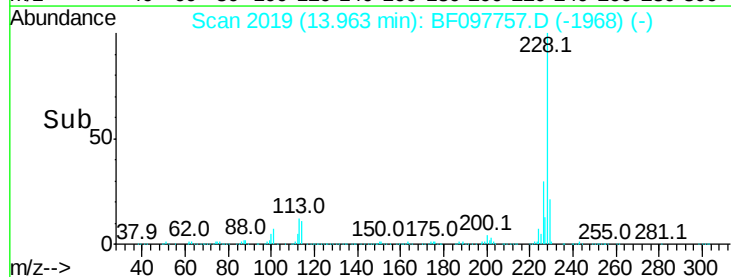
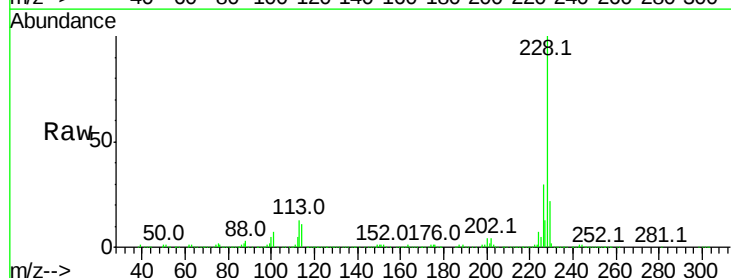
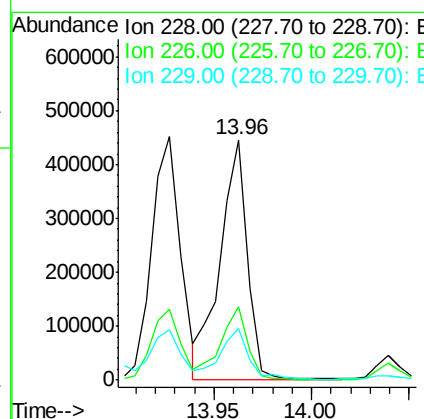
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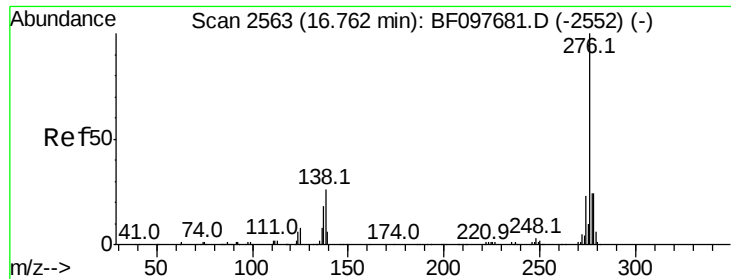
Sohil
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#82
Chrysene
Concen: 23.883 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.00 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	21.6	15.8	23.6





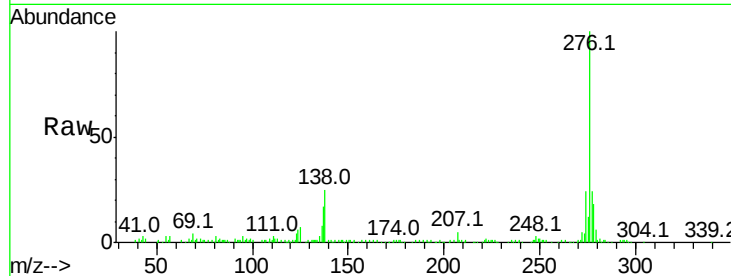
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.235 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.00 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.2	27.8	41.6#
277	23.1	20.2	30.4

Manual Integrations
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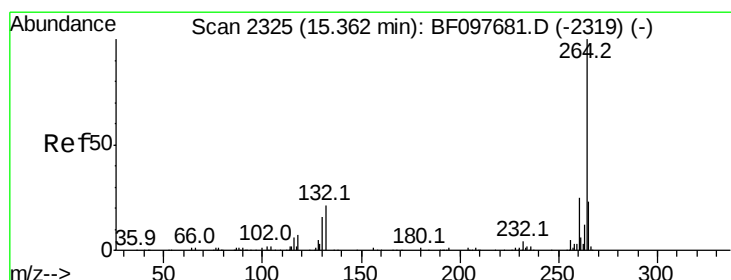
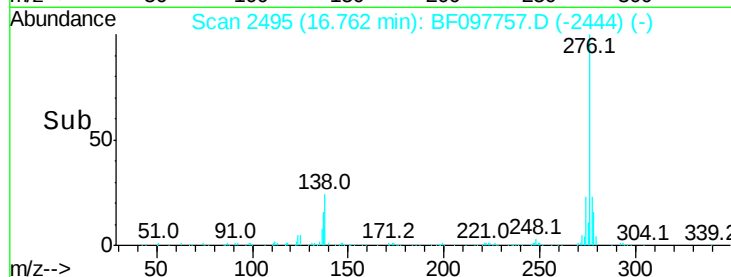
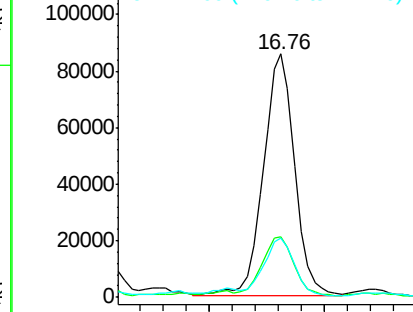


Abundance

Ion 276.00 (275.70 to 276.70): E

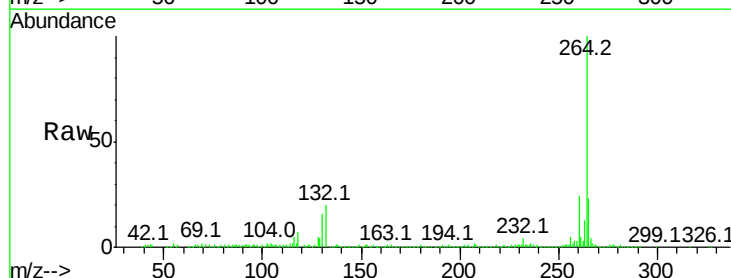
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	22.9	17.2	25.8

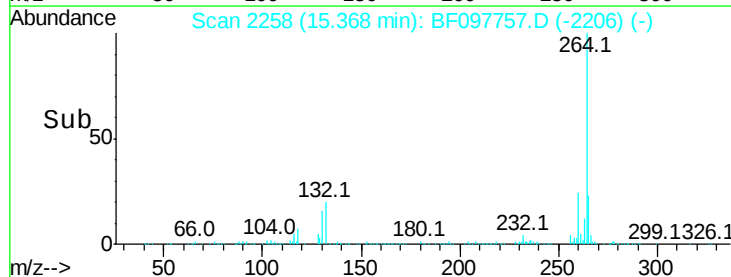
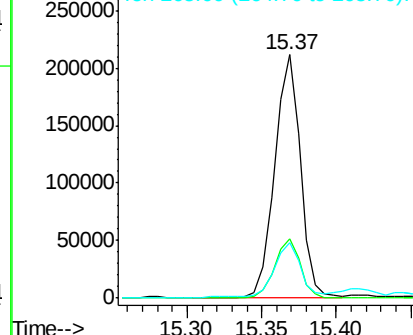


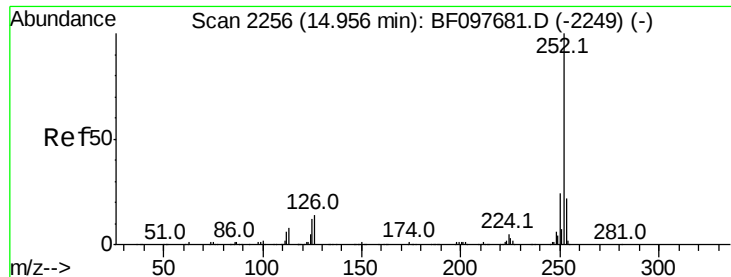
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





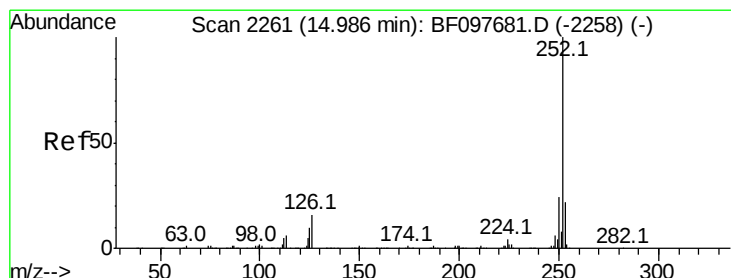
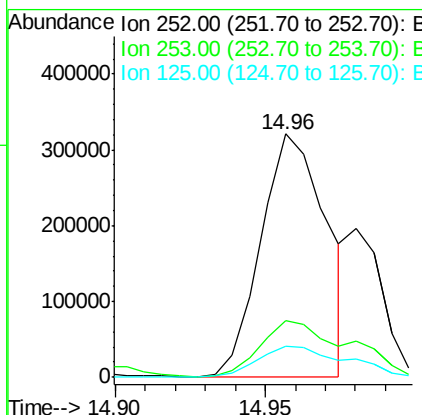
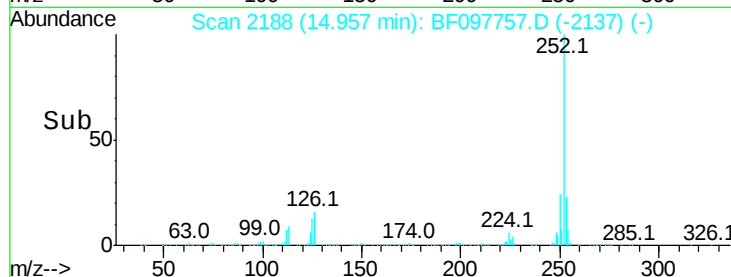
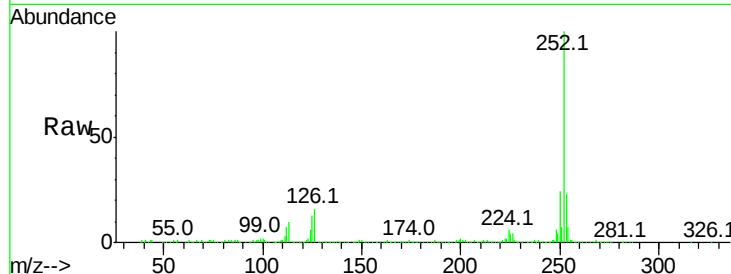
#87
Benzo(b)fluoranthene
Concen: 30.528 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	12.9	9.8	14.8

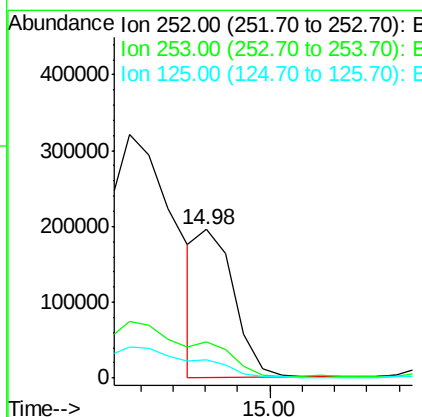
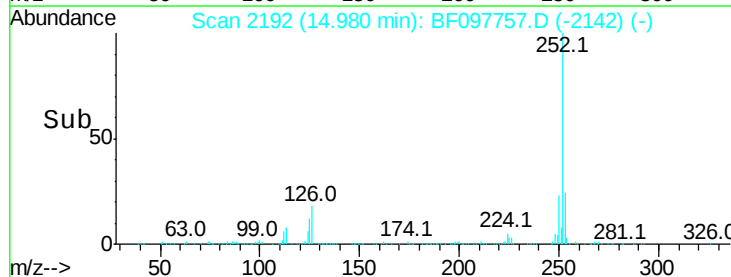
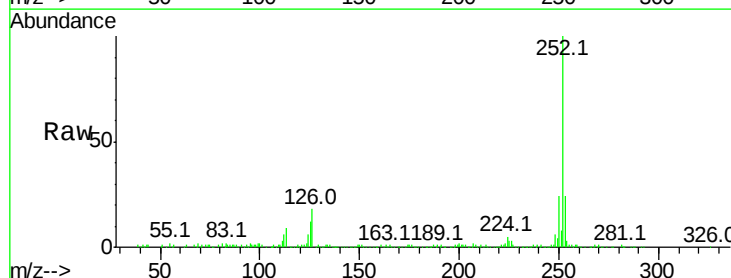
Manual Integrations
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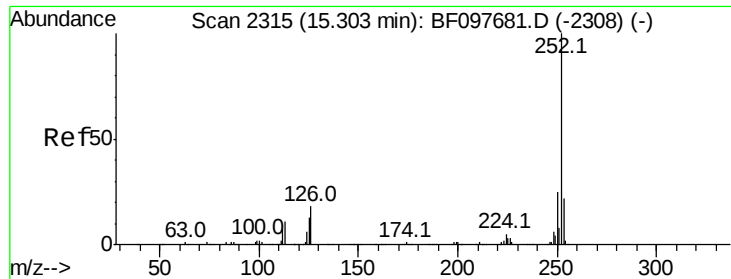
Sohil
8/17/2017 5:58:00 PM



#88
Benzo(k)fluoranthene
Concen: 10.223 ng m
RT: 14.98 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.4	27.6
125	12.3	13.1	19.7#





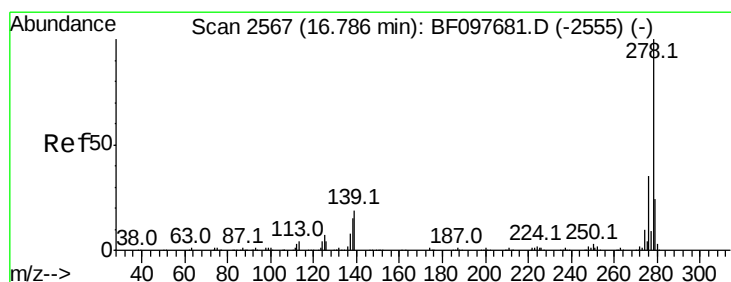
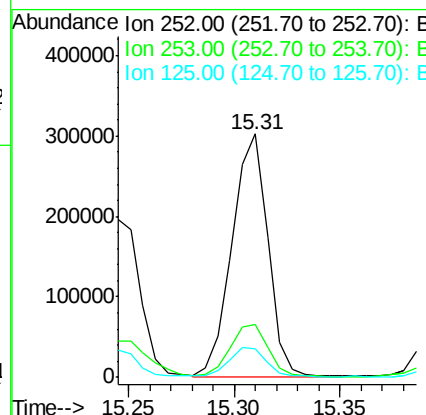
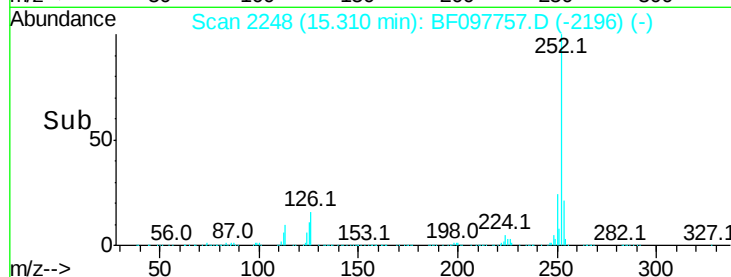
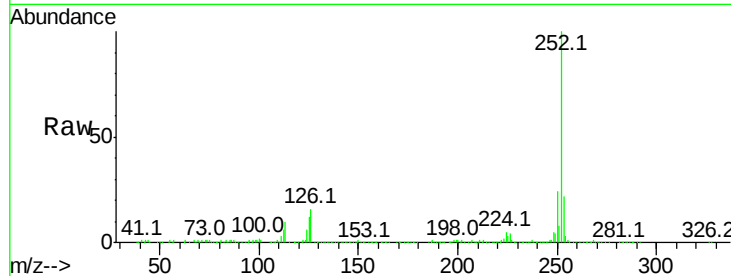
#89
Benzo(a)pyrene
Concen: 24.940 ng
RT: 15.31 min Scan# 2248
Delta R.T. 0.01 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Instrument :
BNA_F
ClientSampleId :
S11-WC-7

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.9	11.0	16.4

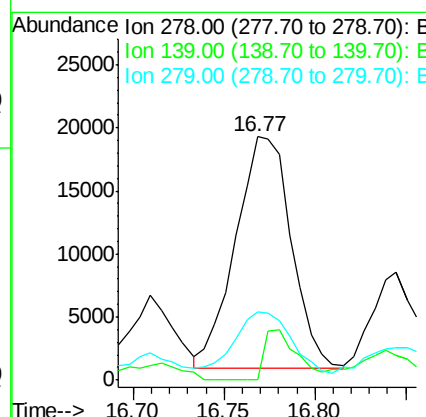
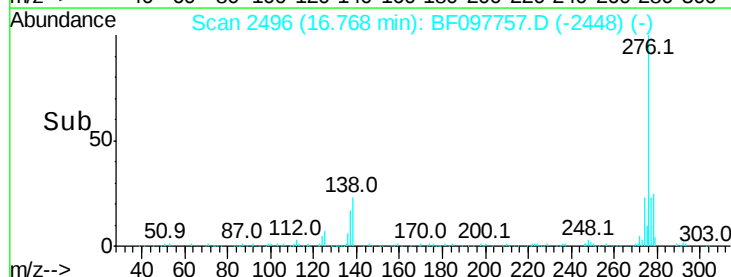
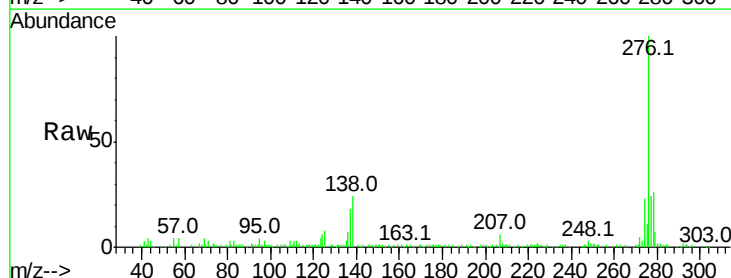
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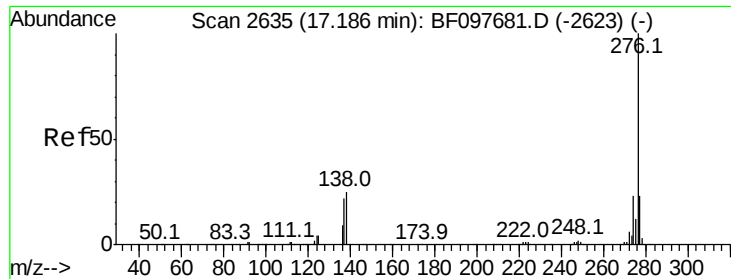
Sohil
8/17/2017 5:58:00 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.369 ng m
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF097757.D
Acq: 16 Aug 2017 23:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.8	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 12.602 ng
 RT: 17.19 min Scan# 2567
 Delta R.T. 0.00 min
 Lab File: BF097757.D
 Acq: 16 Aug 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-7

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.7	18.6	28.0
138	23.3	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/17/2017 5:58:00 PM

