

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
 Data File : BF099096.D
 Acq On : 5 Oct 2017 11:07
 Operator : SJ/JU
 Sample : I5275-01
 Misc : LOD 2 PPM
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Manual Integrations
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Sohil
 10/6/2017 5:34:48 PM

Quant Time: Oct 06 14:22:48 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	116949	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	497531	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	232842	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	427664	20.00	ng	0.00
75) Chrysene-d12	14.03	240	349700	20.00	ng	0.00
86) Perylene-d12	15.50	264	313841	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1057823	143.99	ng	0.00
7) Phenol-d6	6.50	99	1289415	142.28	ng	0.00
23) Nitrobenzene-d5	7.43	82	641150	82.64	ng	0.00
41) 2,4,6-Tribromophenol	10.69	330	280644	147.30	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	1180256	84.62	ng	0.00
78) Terphenyl-d14	12.97	244	1045163	67.97	ng	0.00
Target Compounds						
17) 2-Methylphenol	7.11	107	14877	2.185	ng	93
19) n-Nitroso-di-n-propylamine	7.27	70	12936	2.236	ng	# 93
20) 3+4-Methylphenols	7.26	107	19709m	2.289	ng	
22) Acetophenone	7.27	105	28310	2.349	ng	98
25) Isophorone	7.68	82	33925	2.115	ng	97
26) 2-Nitrophenol	7.76	139	8686	2.052	ng	93
27) 2,4-Dimethylphenol	7.79	122	16097	2.014	ng	96
28) bis(2-Chloroethoxy)methane	7.89	93	22253	2.226	ng	95
29) 2,4-Dichlorophenol	8.00	162	14433	2.103	ng	98
30) 1,2,4-Trichlorobenzene	8.09	180	15182	2.212	ng	96
36) 4-Chloro-3-methylphenol	8.69	107	15617	2.025	ng	91
42) 2,4,6-Trichlorophenol	9.13	196	9132	1.856	ng	96
43) 2,4,5-Trichlorophenol	9.17	196	9549	1.945	ng	96
56) 2,4-Dinitrotoluene	10.09	165	10347	2.084	ng	# 90
60) 4-Chlorophenyl-phenylether	10.44	204	17733	2.532	ng	93
61) 4-Nitroaniline	10.46	138	9280	2.156	ng	93
76) Benzidine	12.72	184	18055	1.396	ng	98
81) 3,3'-Dichlorobenzidine	13.97	252	16799	2.164	ng	95

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

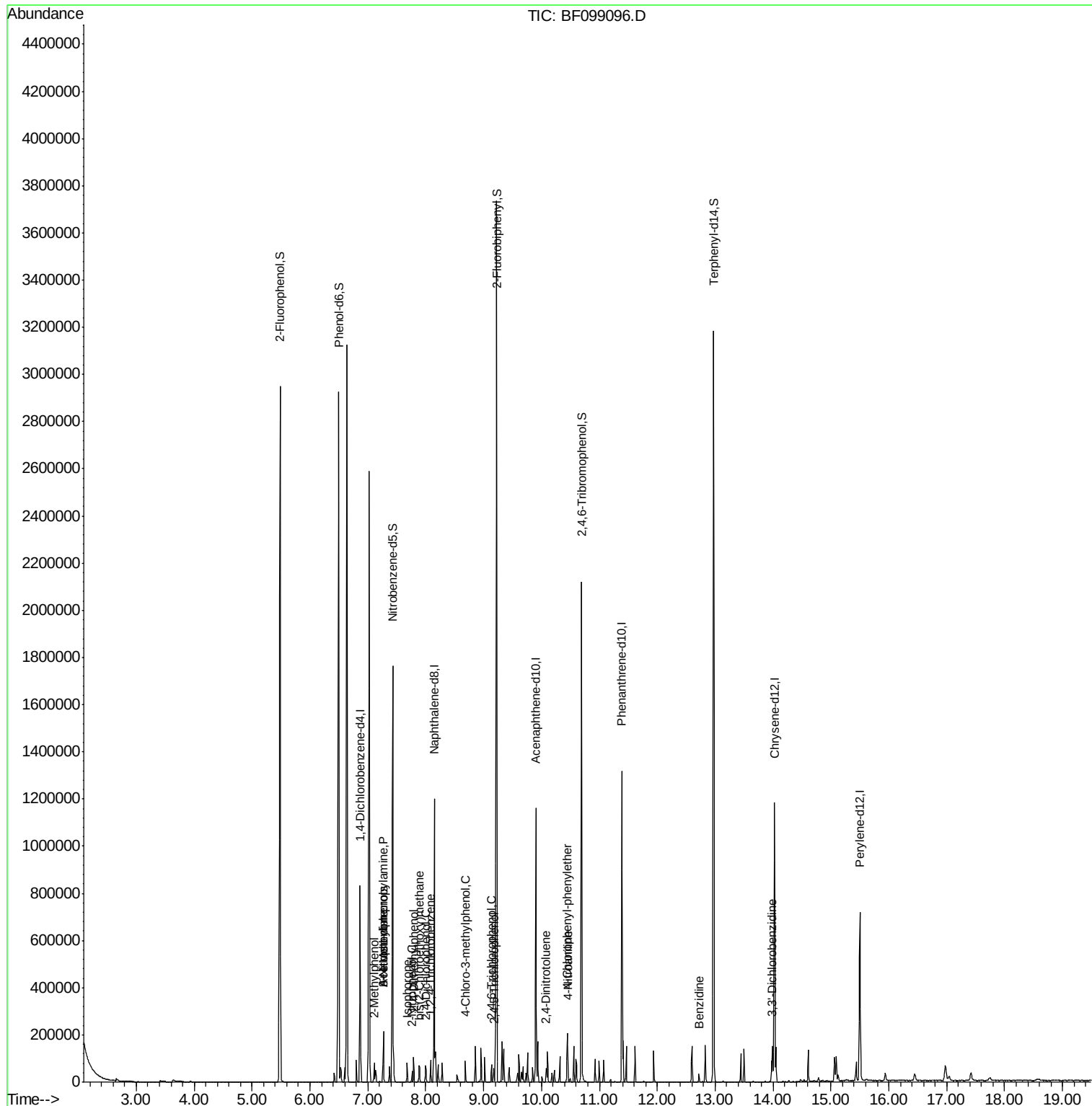
Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
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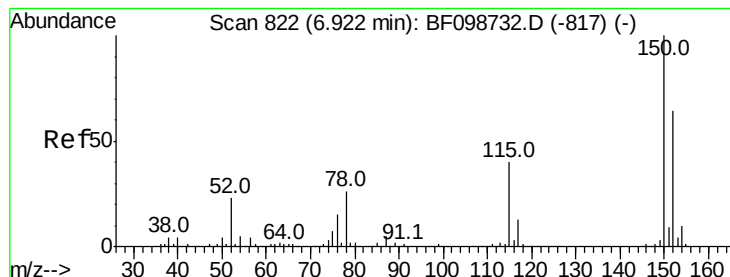
Instrument :
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 LOD-SOIL-01-QT4-2017

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Quant Time: Oct 06 14:22:48 2017
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#1

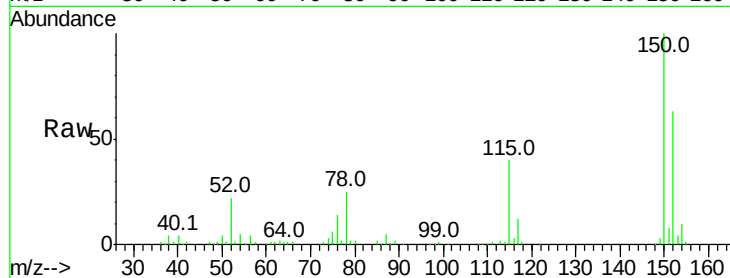
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	124.6	186.8
115	62.8	50.1	75.1

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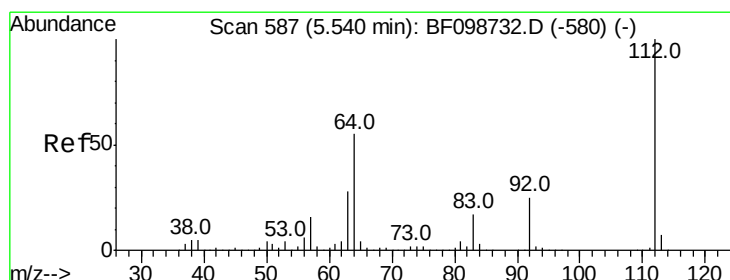
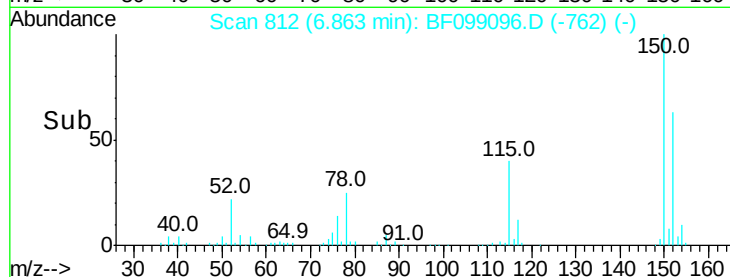
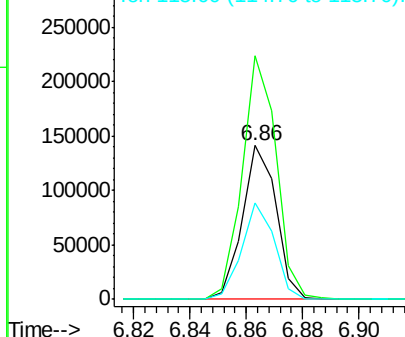


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

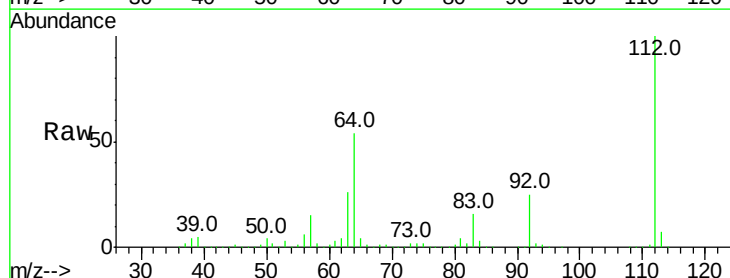
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 143.990 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	47.9	71.9
63	26.3	23.7	35.5

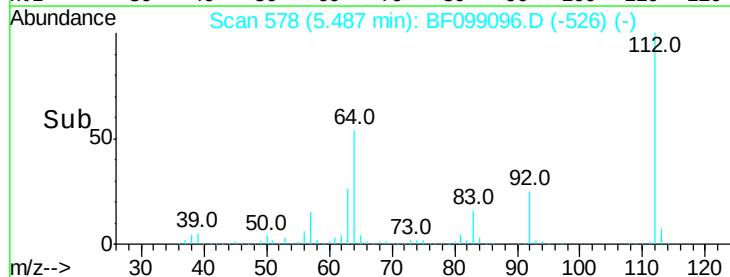
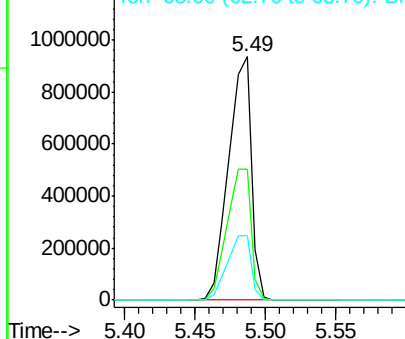


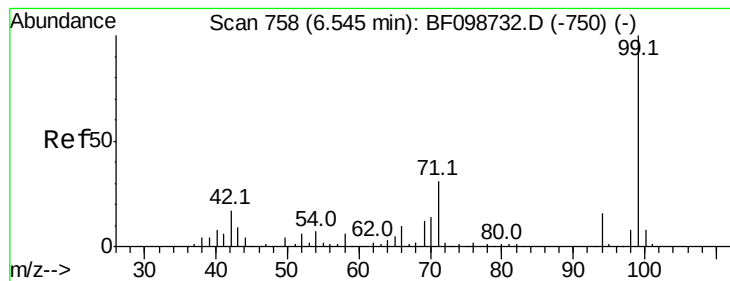
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 142.277 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

Tot Ion: 99 Resp: 1289415

Ion Ratio Lower Upper

99 100

42 15.5 14.5 21.7

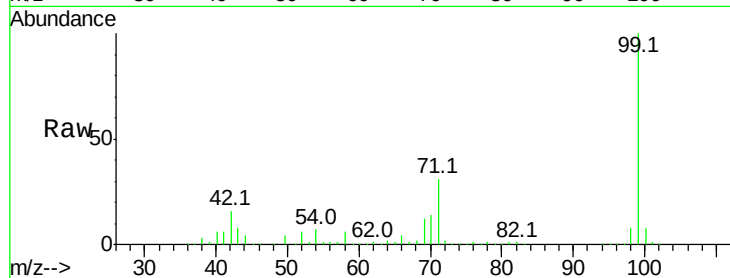
71 31.1 25.4 38.0

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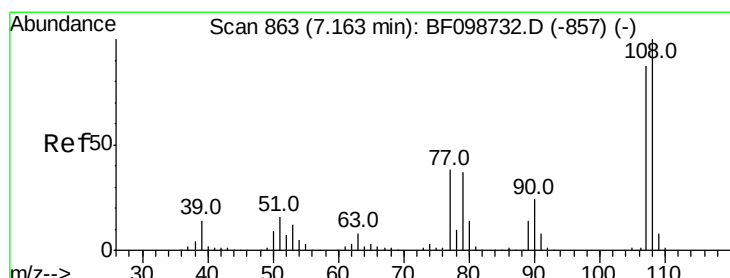
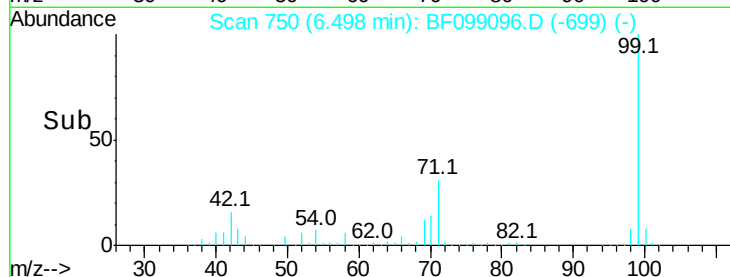
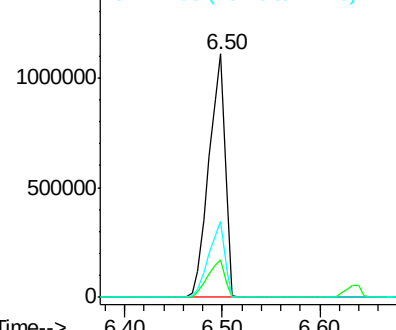
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#17

2-Methylphenol

Concen: 2.185 ng

RT: 7.11 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Tgt Ion:107 Resp: 14877

Ion Ratio Lower Upper

107 100

108 104.8 91.7 137.5

77 38.9 33.8 50.8

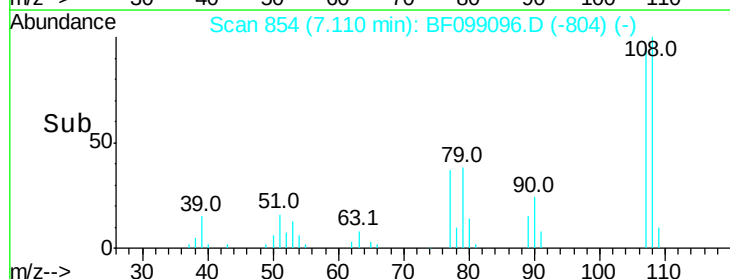
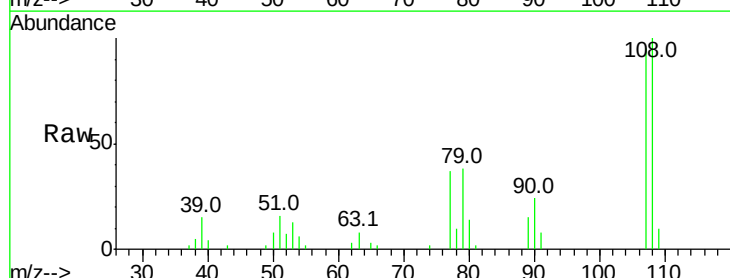
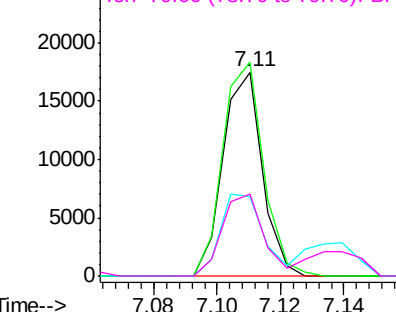
79 40.0 33.8 50.8

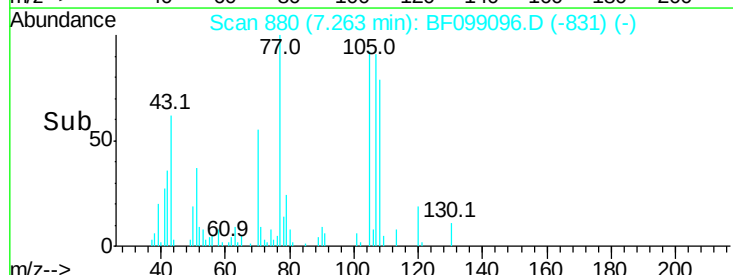
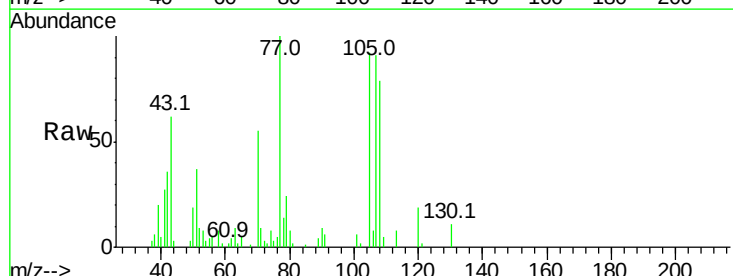
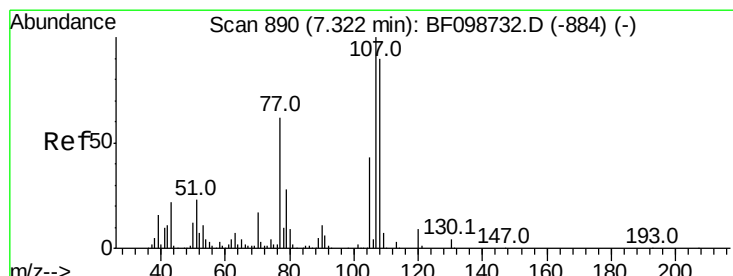
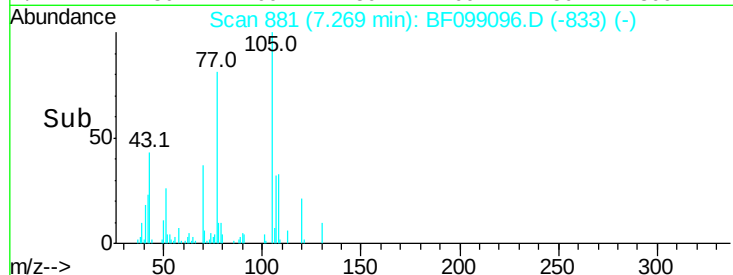
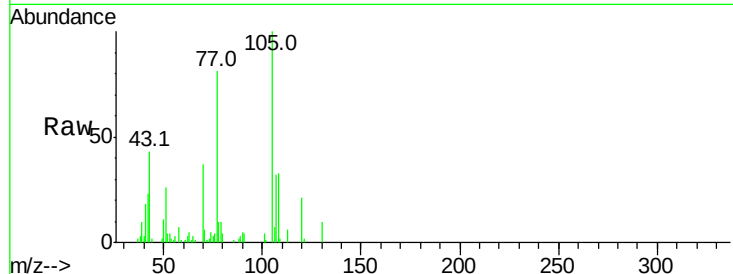
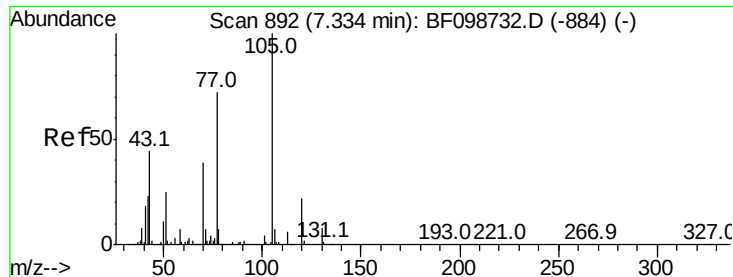
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 2.236 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.02 min

Lab File: BF099096.D

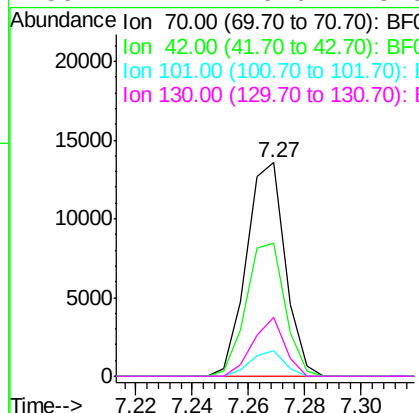
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion	Ion	Ratio	Lower	Upper
70	100			
42	62.6	47.5	71.3	
101	11.8	7.4	11.2	#
130	27.4	16.6	25.0	#

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#20

3+4-Methylphenols

Concen: 2.289 ng m

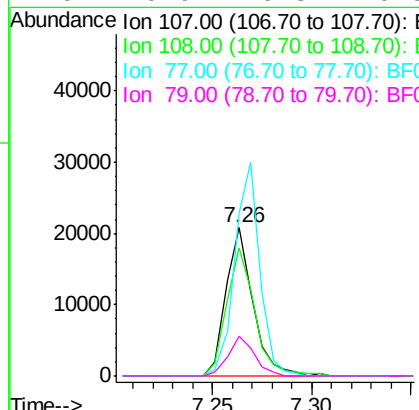
RT: 7.26 min Scan# 880

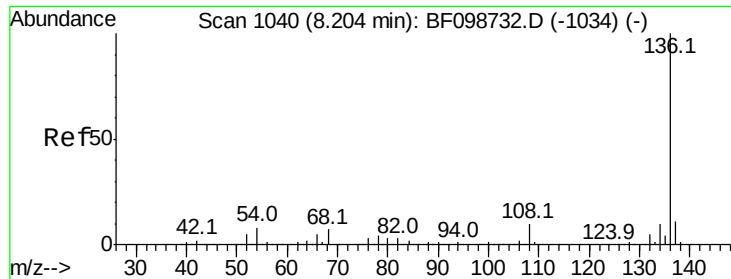
Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
108	86.8	68.2	108.2	
77	110.0	26.7	66.7	#
79	26.6	6.3	46.3	





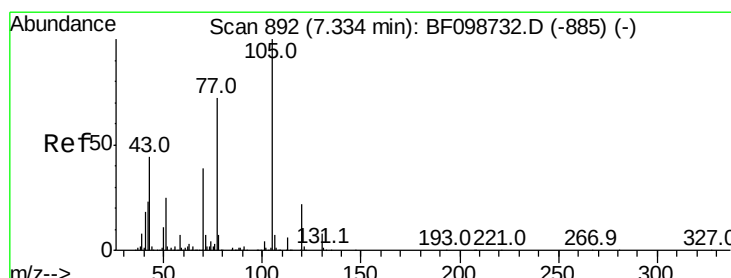
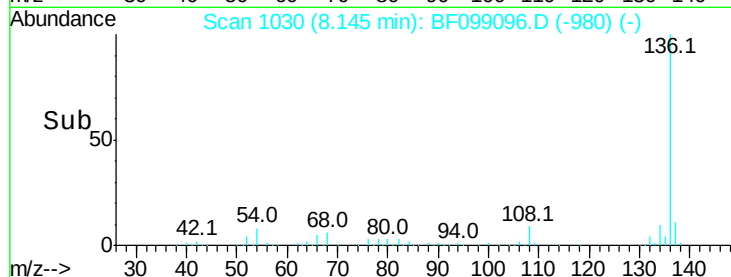
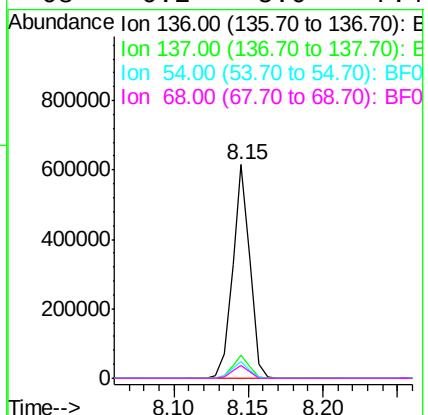
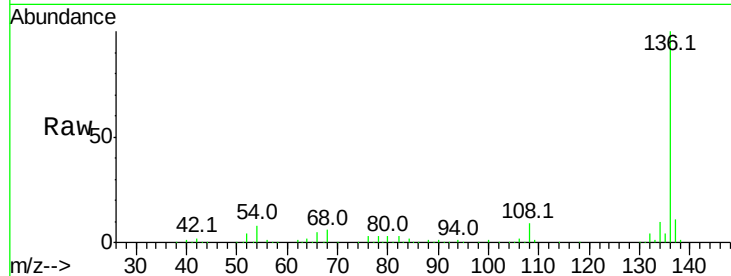
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Resp	Lower	Upper
136	100	497531		
137	10.9		8.9	13.3
54	7.7		6.6	9.8
68	6.2		5.0	7.4

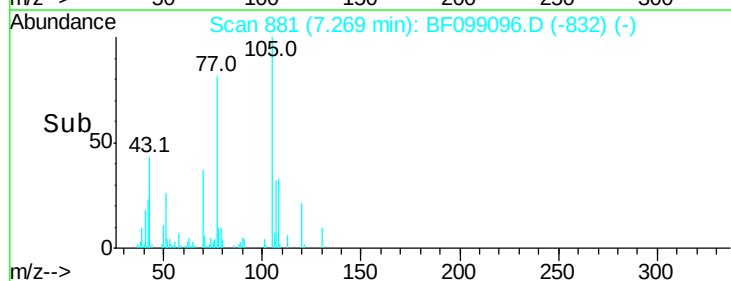
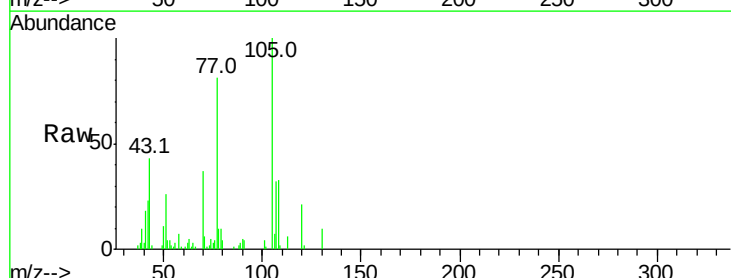
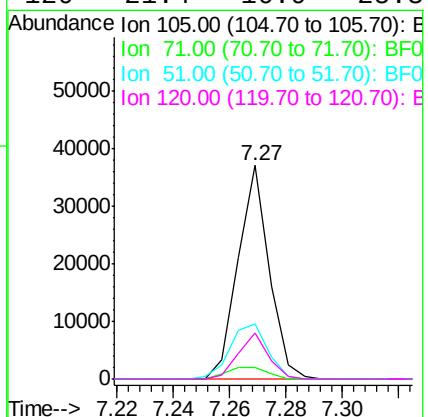
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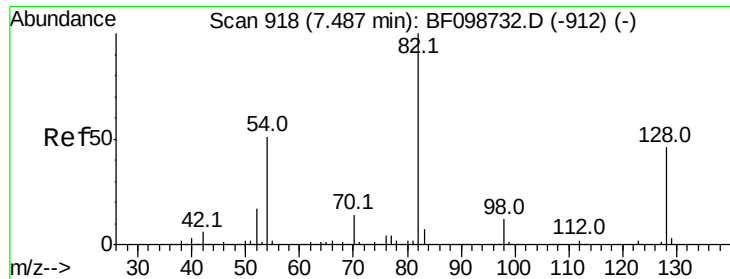
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#22
Acetophenone
Concen: 2.349 ng
RT: 7.27 min Scan# 881
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	28310		
71	5.7		4.4	6.6
51	25.9		22.3	33.5
120	21.4		16.9	25.3





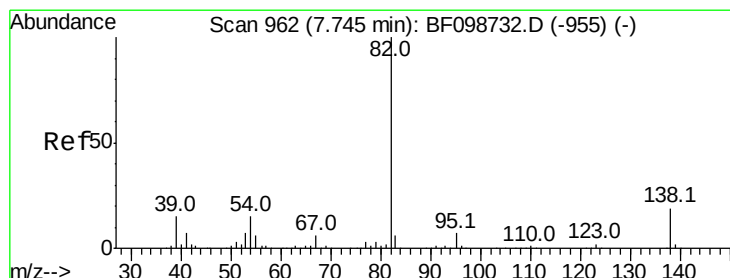
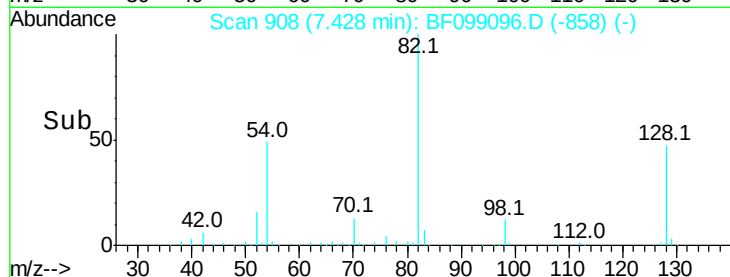
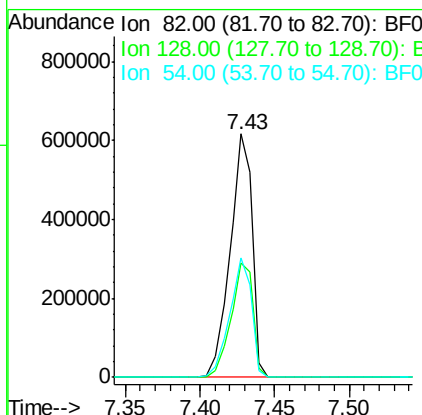
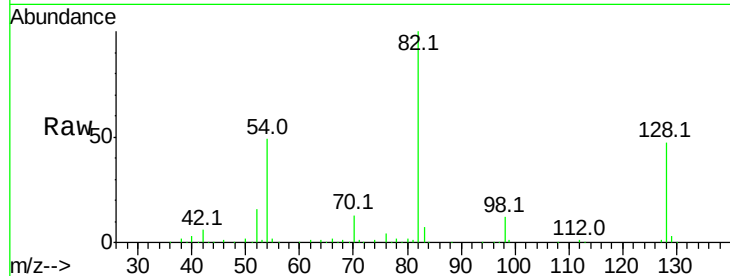
#23
 Nitrobenzene-d5
 Concen: 82.642 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	36.1	54.1
54	48.8	41.4	62.2

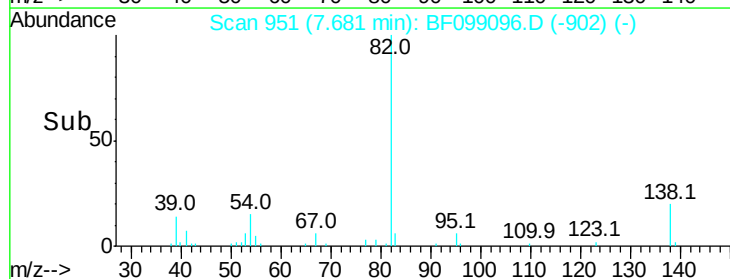
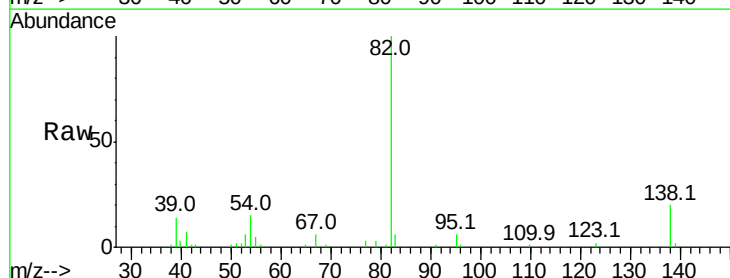
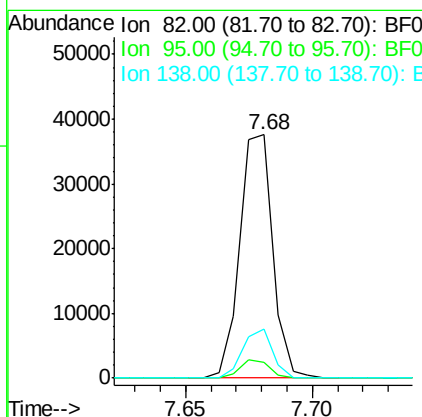
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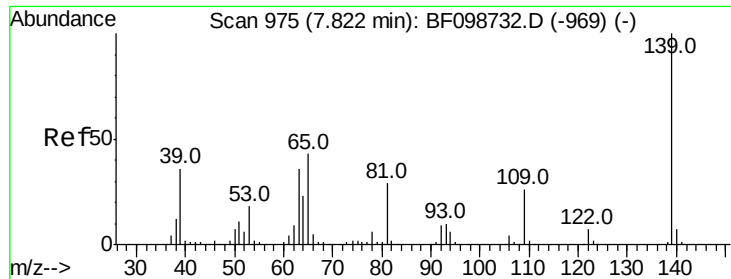
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#25
 Isophorone
 Concen: 2.115 ng
 RT: 7.68 min Scan# 951
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
82	100		
95	6.3	5.2	7.8
138	20.3	14.9	22.3





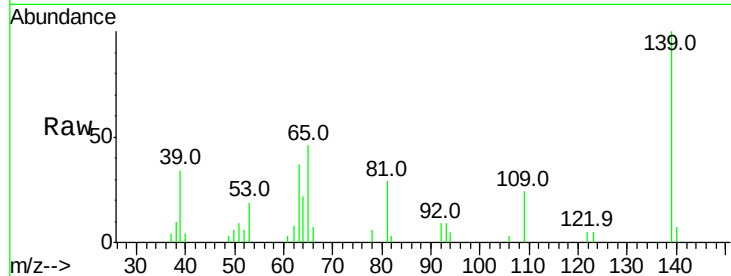
#26
2-Nitrophenol
Concen: 2.052 ng
RT: 7.76 min Scan# 965
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

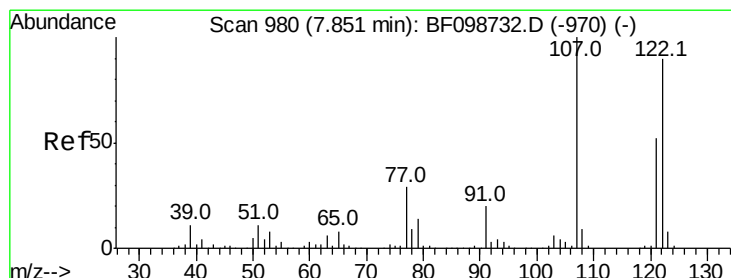
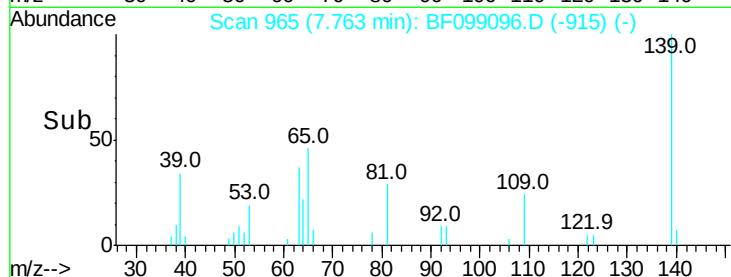
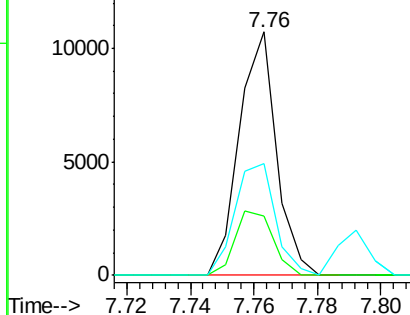
Tot Ion	Ratio	Resp	Lower	Upper
139	100	8686		
109	24.2		22.7	34.1
65	45.9		40.5	60.7

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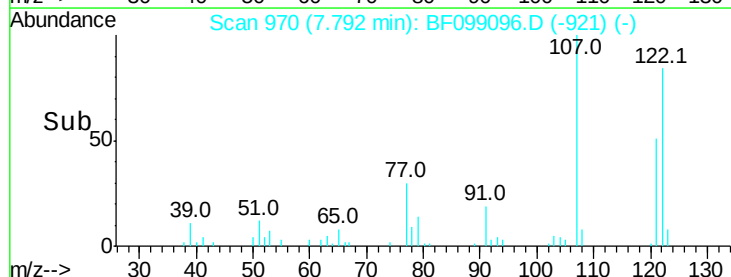
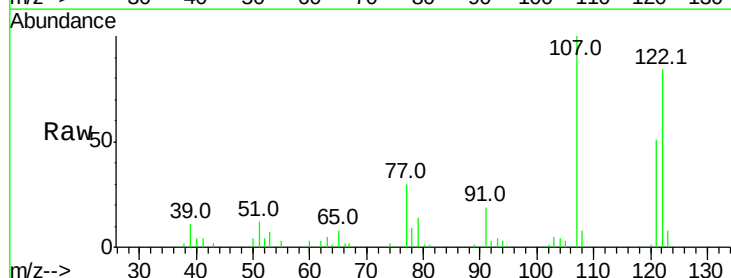
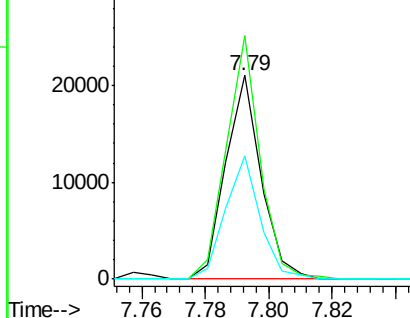
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BFO

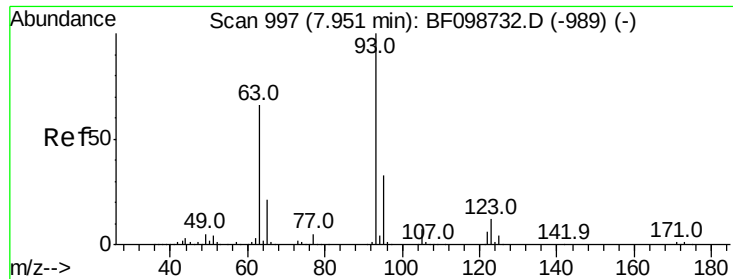


#27
2,4-Dimethylphenol
Concen: 2.014 ng
RT: 7.79 min Scan# 970
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	16097		
107	119.5		91.2	136.8
121	60.8		47.2	70.8

Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E





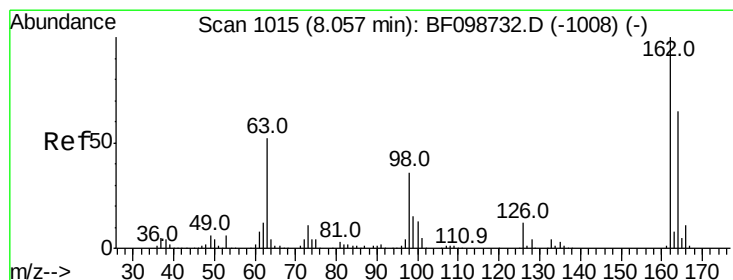
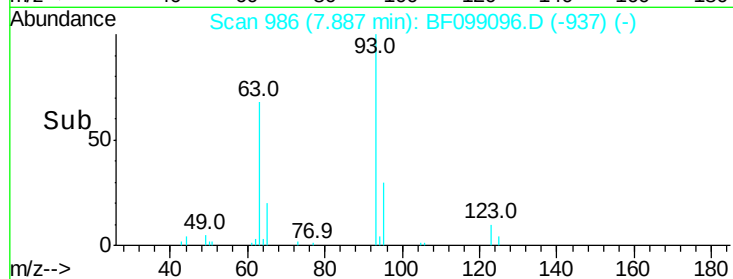
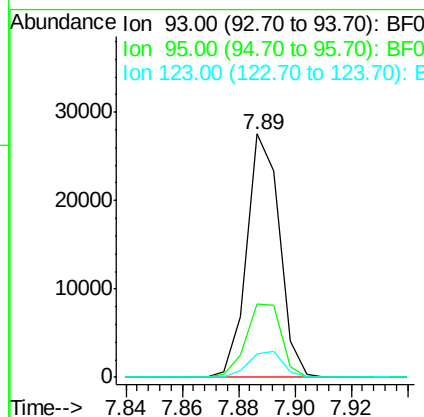
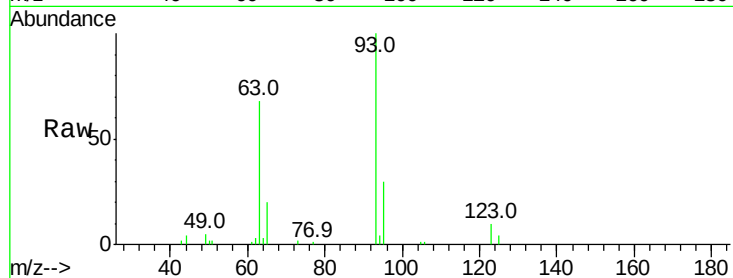
#28
bis(2-Chloroethoxy)methane
Concen: 2.226 ng
RT: 7.89 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
93	100		
95	29.9	26.3	39.5
123	9.8	9.8	14.6

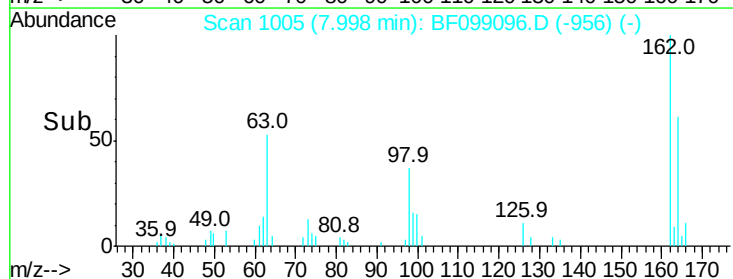
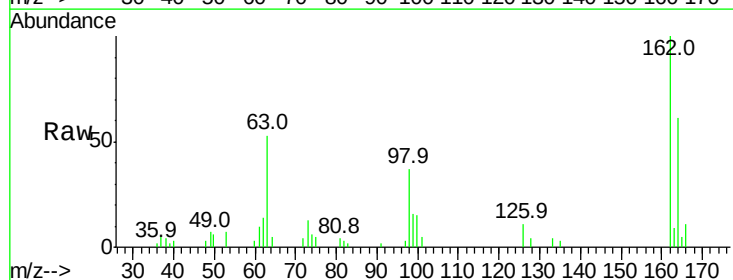
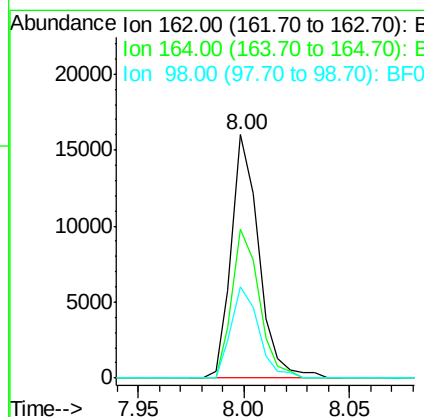
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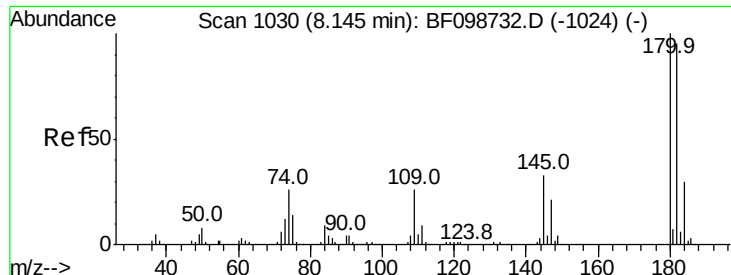
Sohil
10/6/2017 5:34:48 PM



#29
2,4-Dichlorophenol
Concen: 2.103 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
162	100		
164	60.9	42.7	82.7
98	37.3	18.1	58.1





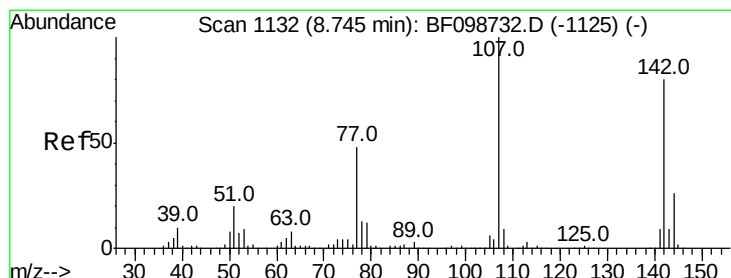
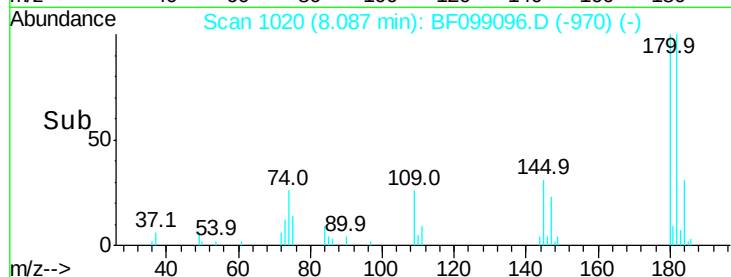
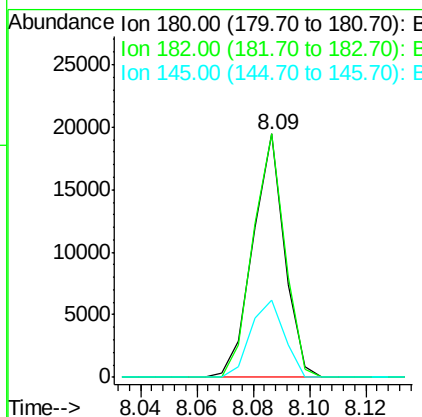
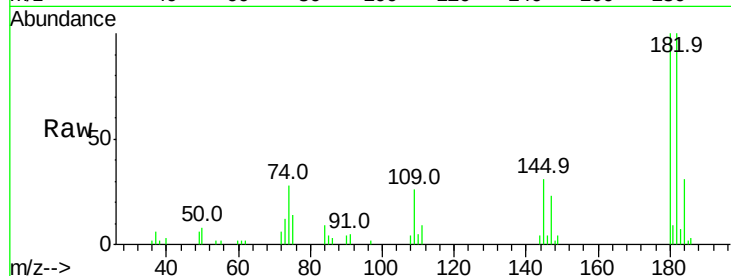
#30
 1,2,4-Trichlorobenzene
 Concen: 2.212 ng
 RT: 8.09 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	100.1	76.8	115.2	
145	31.5	26.5	39.7	

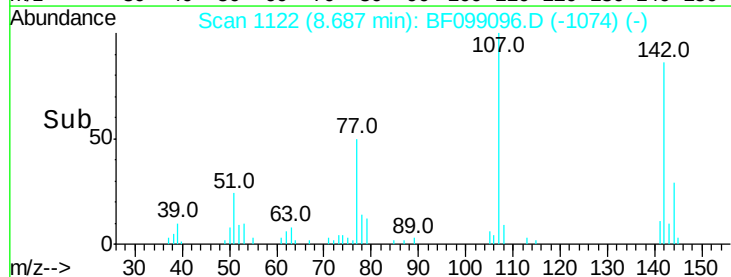
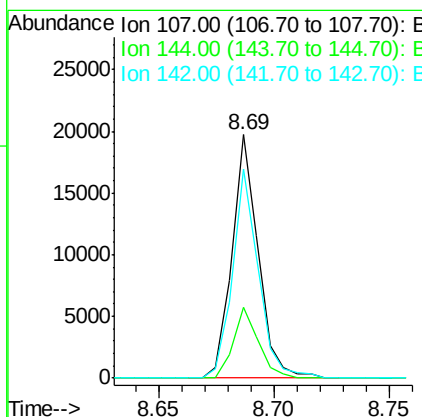
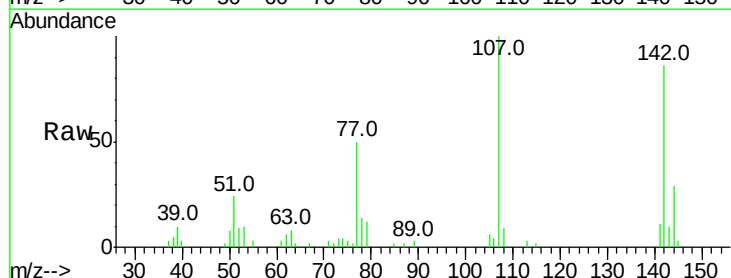
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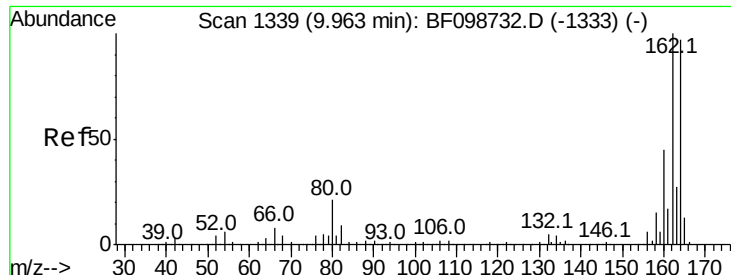
Sohil
 10/6/2017 5:34:48 PM



#36
 4-Chloro-3-methylphenol
 Concen: 2.025 ng
 RT: 8.69 min Scan# 1122
 Delta R.T. -0.02 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
107	100			
144	29.1	20.5	30.7	
142	85.8	62.0	93.0	





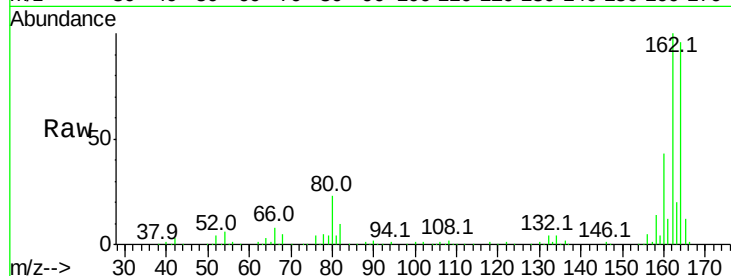
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

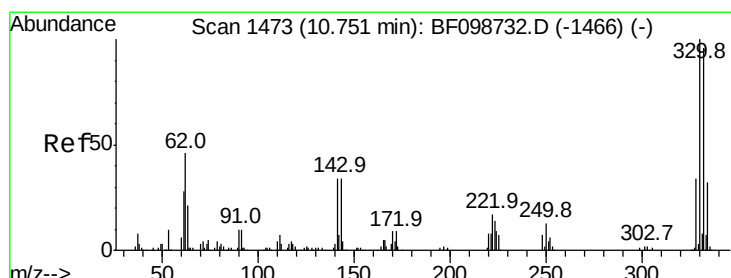
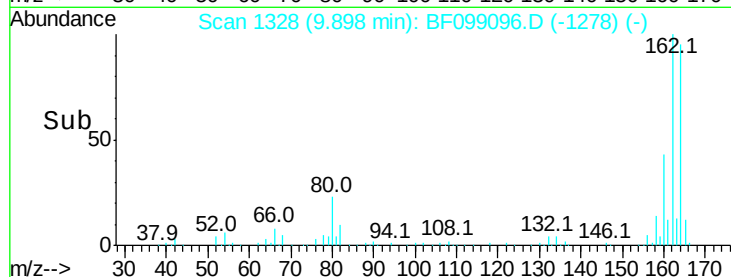
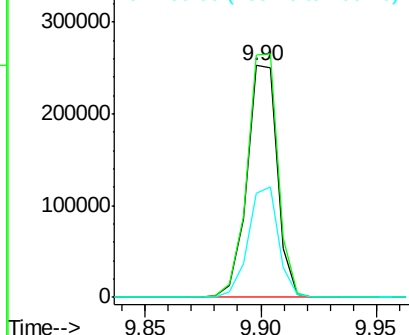
Tot Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.1	129.1
160	44.8	38.3	57.5

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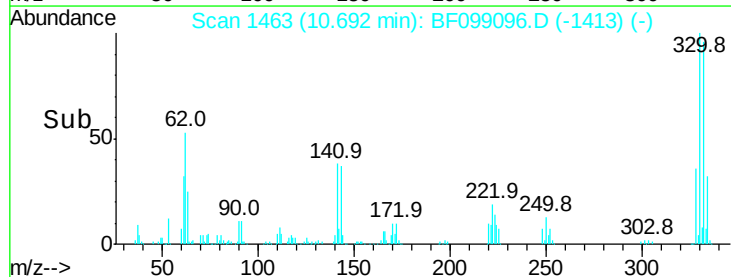
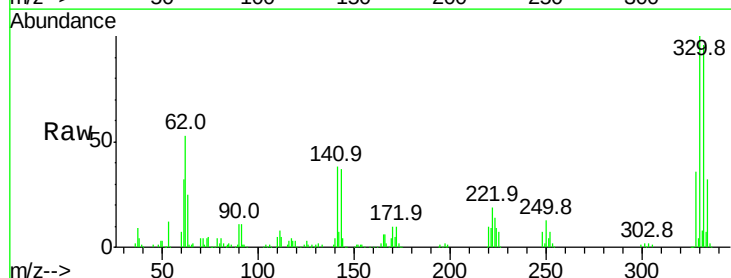
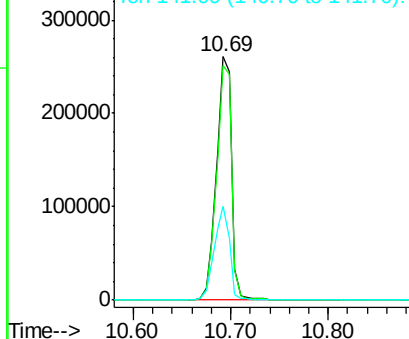
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

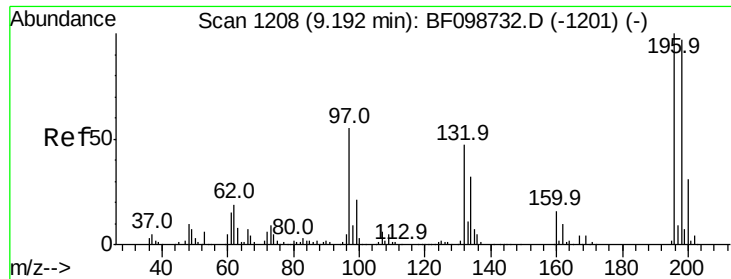


#41
2,4,6-Tribromophenol
Concen: 147.298 ng
RT: 10.69 min Scan# 1463
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	38.6	29.9	44.9

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





#42

2,4,6-Trichlorophenol

Concen: 1.856 ng

RT: 9.13 min Scan# 1198

Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Instrument :

BNA_F

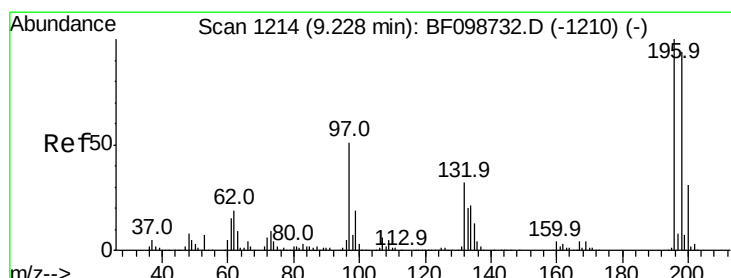
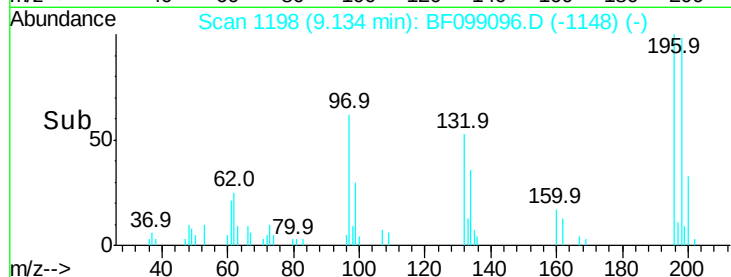
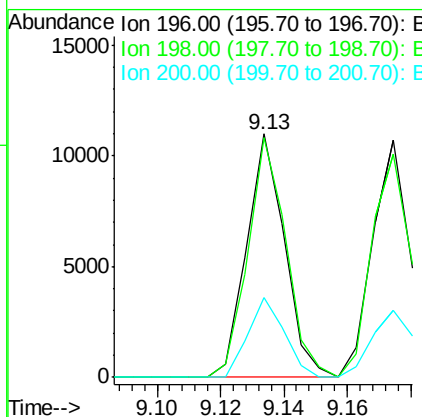
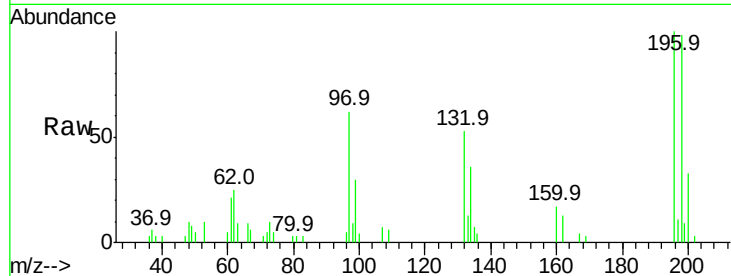
ClientSampleId :

LOD-SOIL-01-QT4-2017

Tot Ion:	196	Resp:	9132
Ion Ratio	Lower	Upper	
196	100		
198	98.3	75.7	113.5
200	32.7	24.5	36.7

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#43

2,4,5-Trichlorophenol

Concen: 1.945 ng

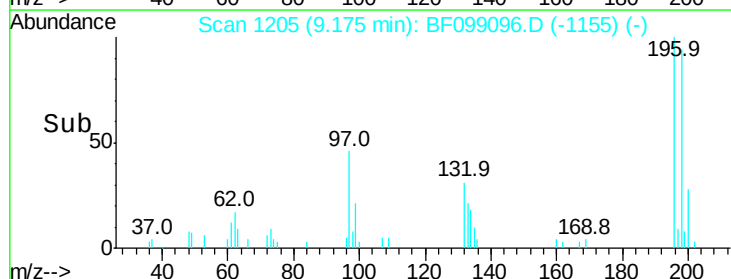
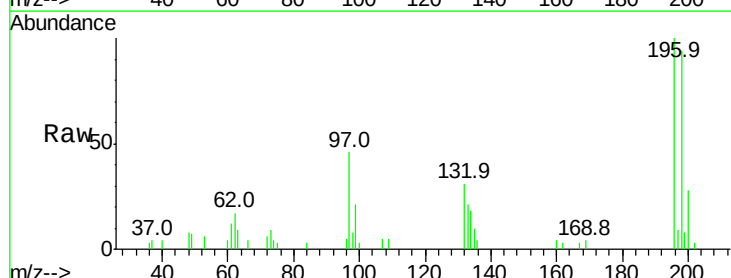
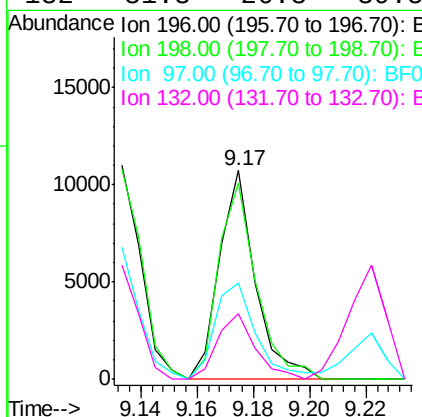
RT: 9.17 min Scan# 1205

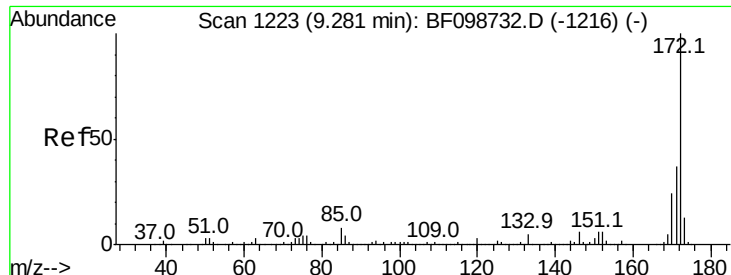
Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Tgt Ion:	196	Resp:	9549
Ion Ratio	Lower	Upper	
196	100		
198	93.8	74.6	112.0
97	46.2	42.9	64.3
132	31.3	26.3	39.5





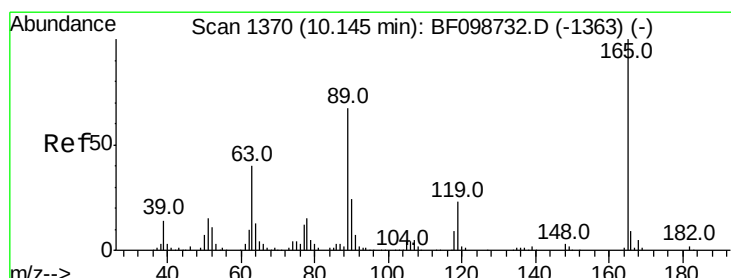
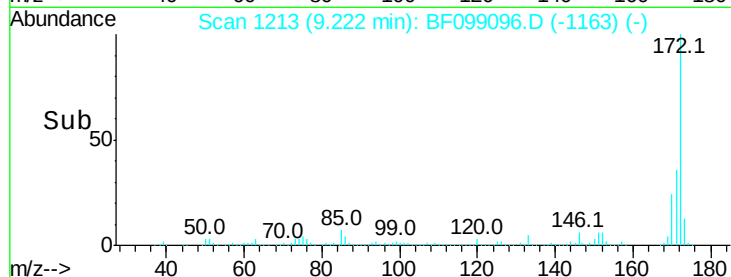
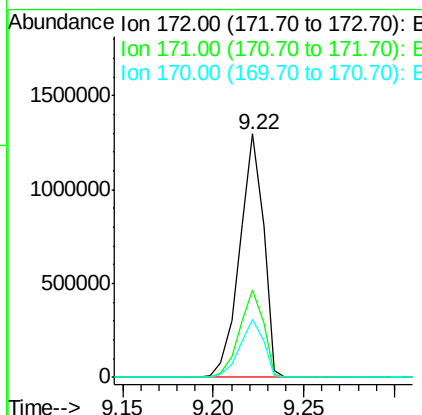
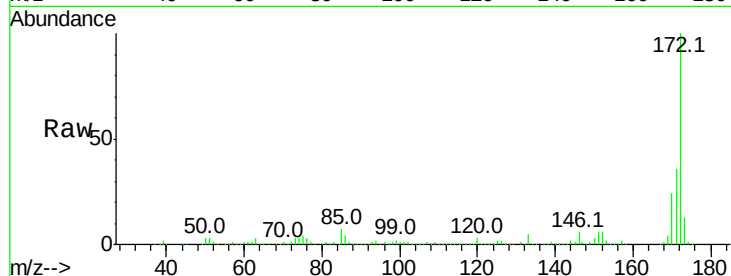
#44
2-Fluorobiphenyl
Concen: 84.621 ng
RT: 9.22 min Scan# 1213
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.7	44.5
170	23.6	19.6	29.4

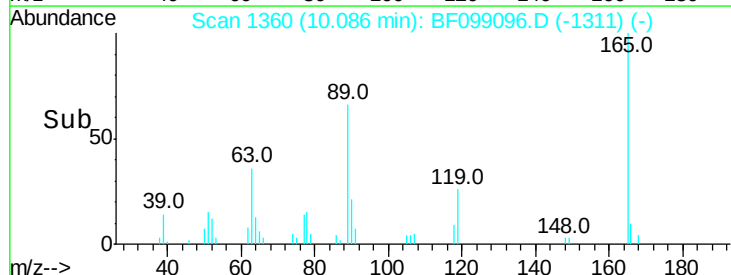
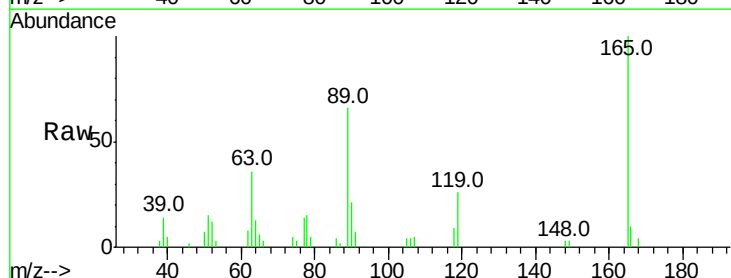
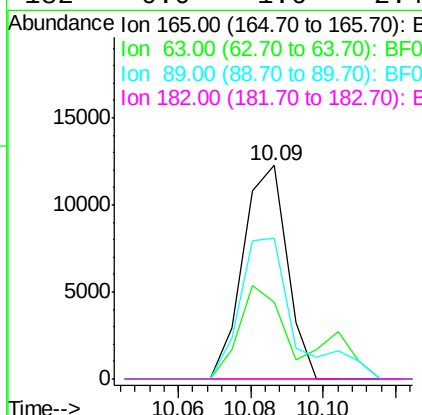
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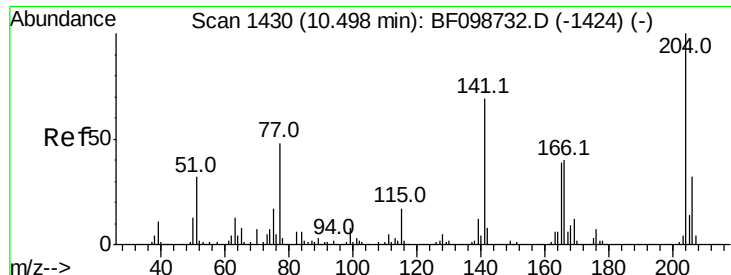
Sohil
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#56
2,4-Dinitrotoluene
Concen: 2.084 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF099096.D
Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
165	100		
63	36.1	36.4	54.6#
89	65.7	57.8	86.6
182	0.0	1.6	2.4#





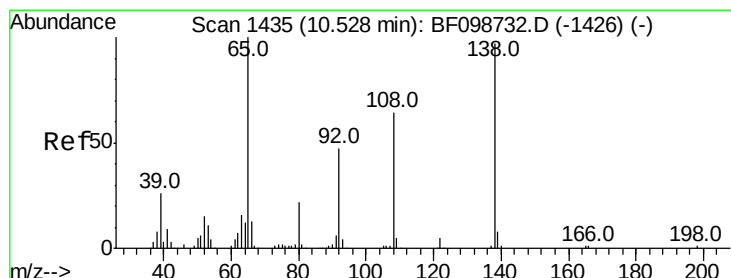
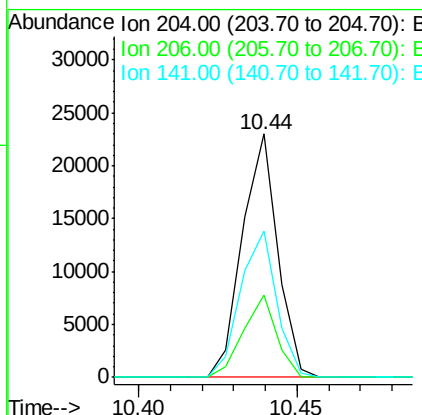
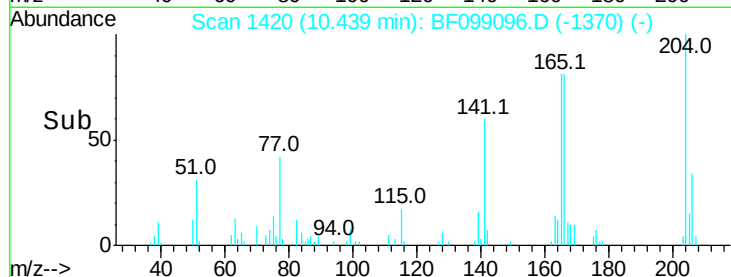
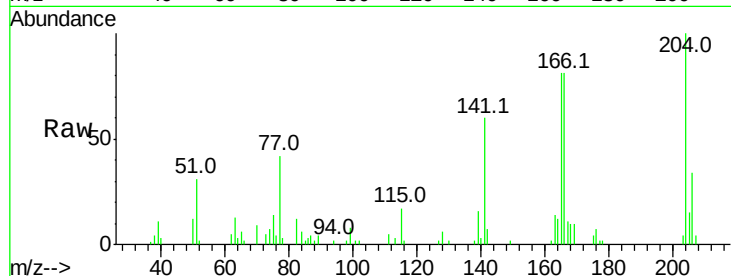
#60
 4-Chlorophenyl-phenylether
 Concen: 2.532 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
204	100		
206	33.6	26.5	39.7
141	60.3	54.6	81.8

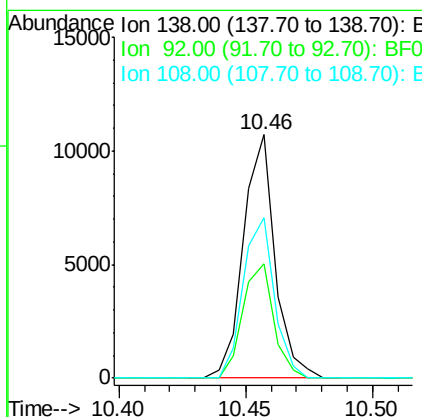
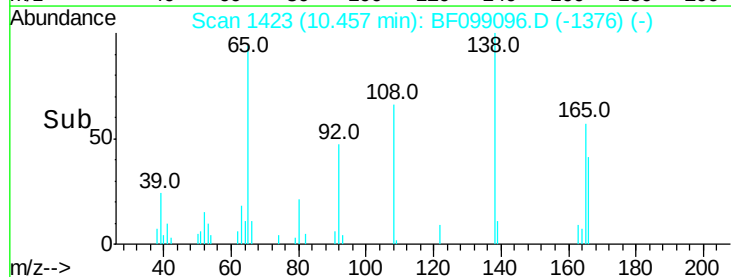
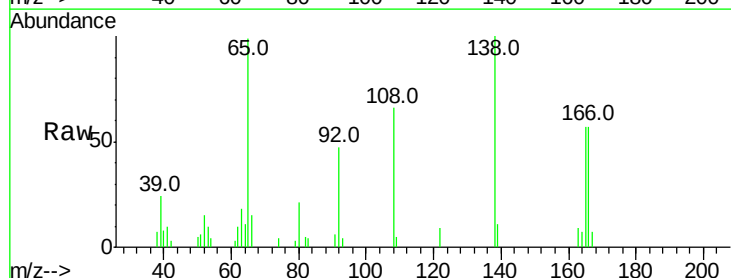
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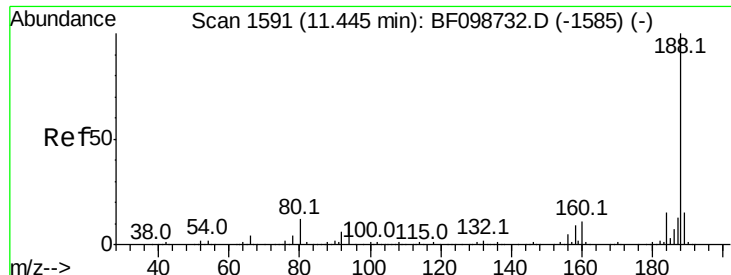
Sohil
 10/6/2017 5:34:48 PM



#61
 4-Nitroaniline
 Concen: 2.156 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. -0.02 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
138	100		
92	46.8	30.2	70.2
108	65.7	52.5	92.5





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Instrument :

BNA_F

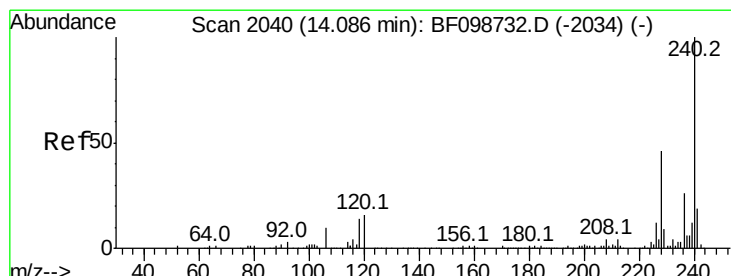
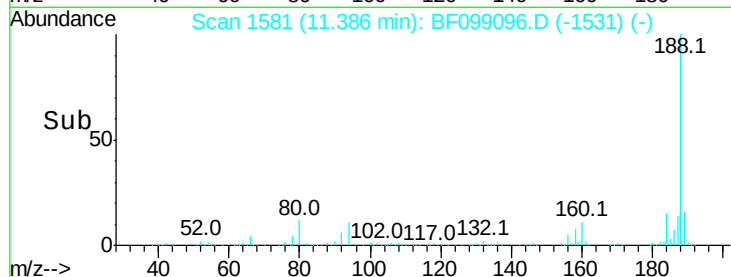
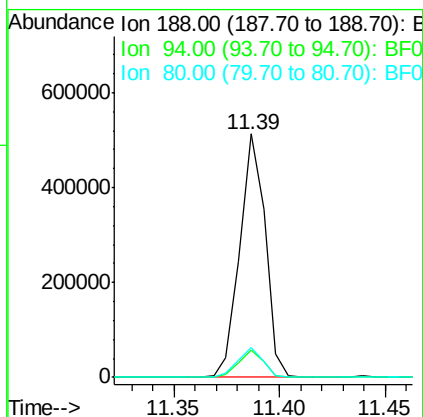
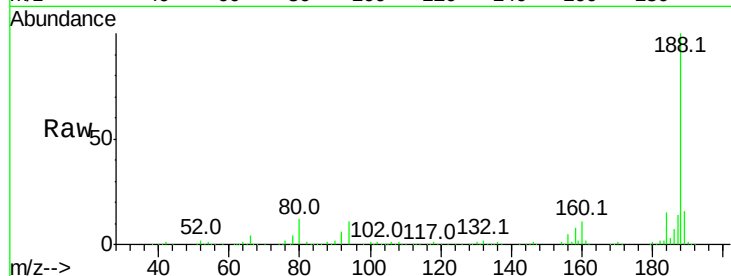
ClientSampleId :

LOD-SOIL-01-QT4-2017

Tot Ion:	188	Resp:	427664
Ion Ratio	Lower	Upper	
188	100		
94	11.4	8.5	12.7
80	12.3	9.2	13.8

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#75

Chrysene-d12

Concen: 20.000 ng

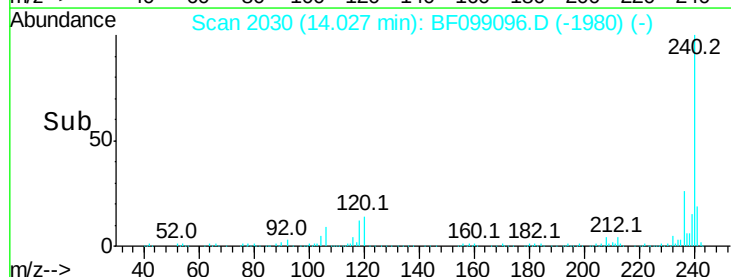
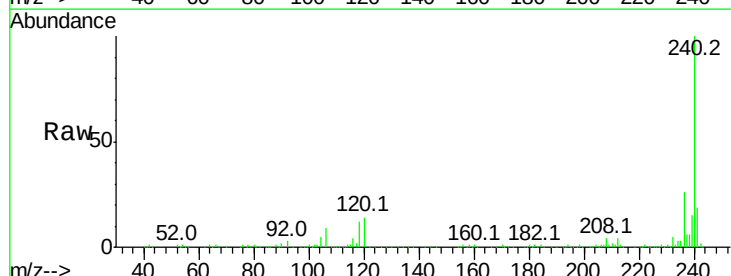
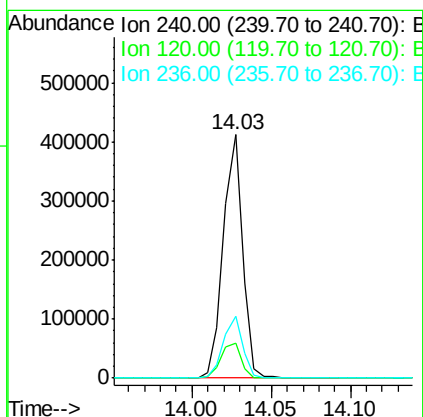
RT: 14.03 min Scan# 2030

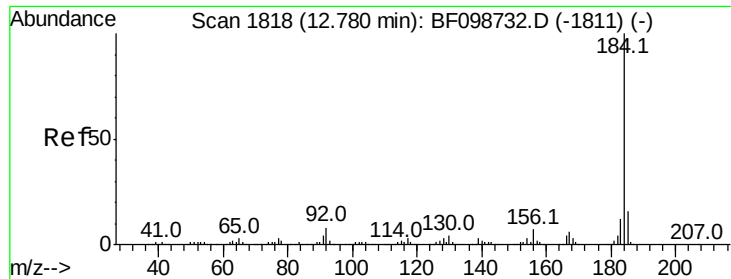
Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Tgt Ion:	240	Resp:	349700
Ion Ratio	Lower	Upper	
240	100		
120	14.2	9.5	14.3
236	25.6	20.7	31.1





#76

Benzidine

Concen: 1.396 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Instrument :

BNA_F

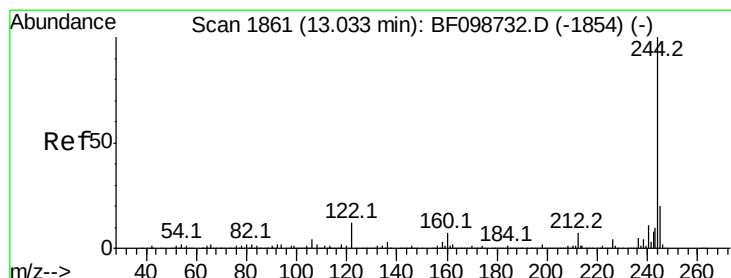
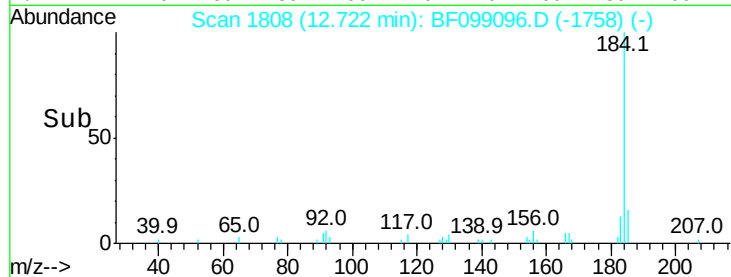
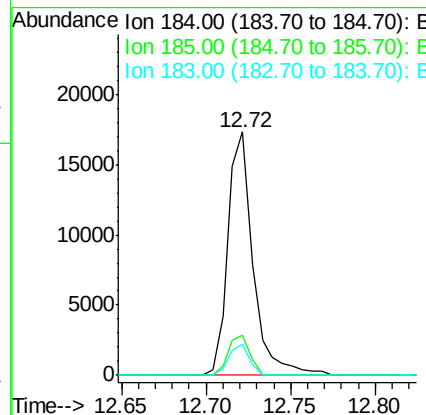
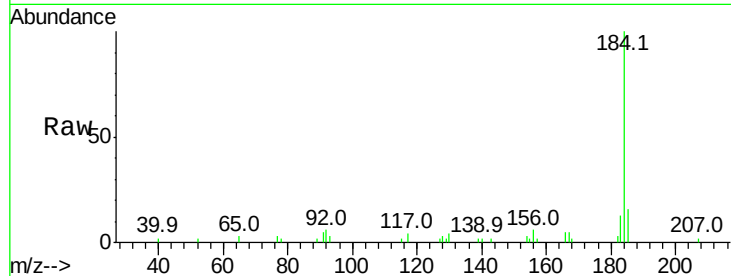
ClientSampleId :

LOD-SOIL-01-QT4-2017

Tot Ion:	184	Resp:	18055
Ion Ratio	Lower	Upper	
184	100		
185	16.3	12.6	18.8
183	13.0	9.3	13.9

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#78

Terphenyl-d14

Concen: 67.970 ng

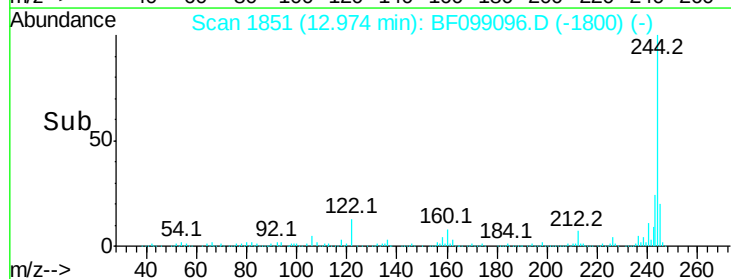
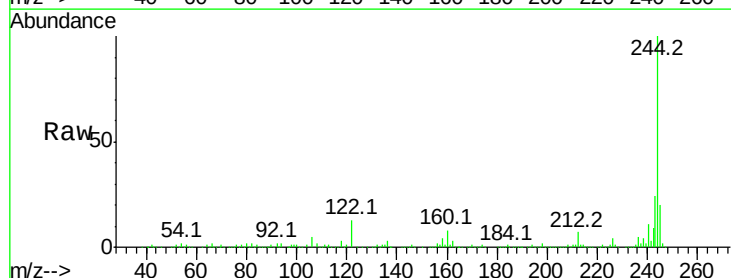
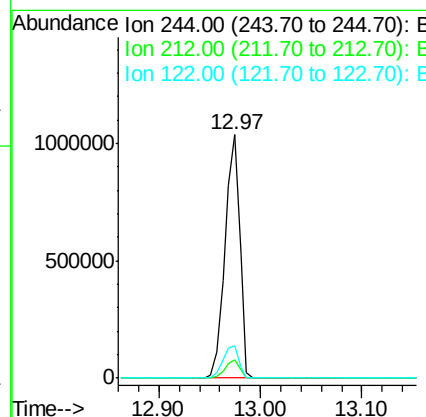
RT: 12.97 min Scan# 1851

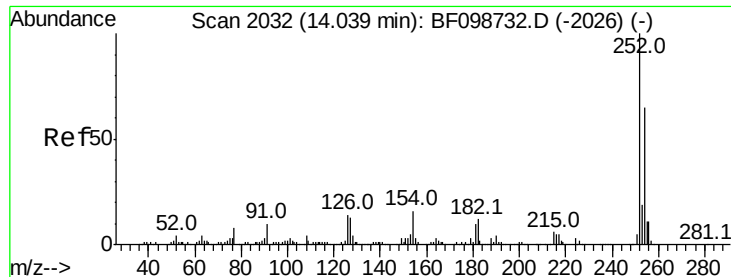
Delta R.T. 0.00 min

Lab File: BF099096.D

Acq: 5 Oct 2017 11:07

Tgt Ion:	244	Resp:	1045163
Ion Ratio	Lower	Upper	
244	100		
212	7.3	5.4	8.0
122	13.3	11.0	16.4





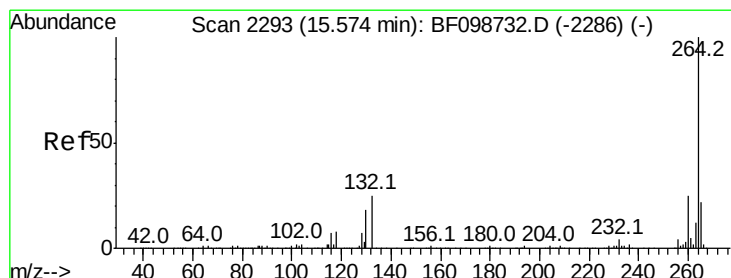
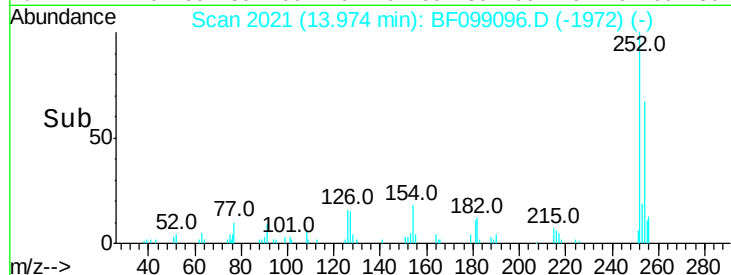
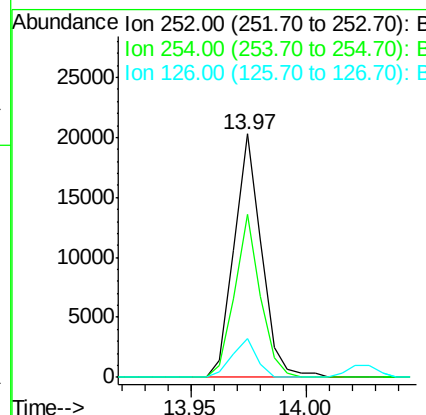
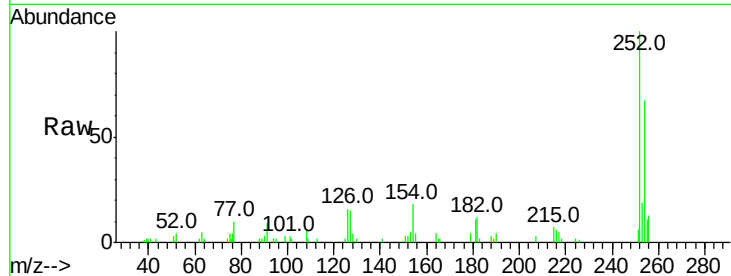
#81
 3,3'-Dichlorobenzidine
 Concen: 2.164 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
252	100		
254	67.2	50.4	75.6
126	16.0	11.3	16.9

Manual Integrations
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF099096.D
 Acq: 5 Oct 2017 11:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.0	17.5	26.3

