

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG092316\
 Data File : BG024095.D
 Acq On : 23 Sep 2016 20:03
 Operator : UM/SJ
 Sample : H4818-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Manual Integrations
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Quant Time: Sep 26 14:08:58 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG092316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 23 15:35:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	39984	20.00	ng	0.00
21) Naphthalene-d8	10.87	136	162909	20.00	ng	0.00
38) Acenaphthene-d10	14.72	164	144357	20.00	ng	0.00
63) Phenanthrene-d10	17.48	188	364675	20.00	ng	0.00
75) Chrysene-d12	21.80	240	416765	20.00	ng	0.00
86) Perylene-d12	25.13	264	397133	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	300580	130.24	ng	0.00
7) Phenol-d6	7.21	99	464515	119.62	ng	0.00
23) Nitrobenzene-d5	9.22	82	336393	81.38	ng	0.00
41) 2,4,6-Tribromophenol	16.22	330	251848	121.37	ng	0.00
44) 2-Fluorobiphenyl	13.32	172	694985	80.93	ng	0.00
78) Terphenyl-d14	20.09	244	1421542	69.84	ng	0.00

Target Compounds

						Qvalue
6) Aniline	7.37	93	3272	0.60	ng	# 87
8) 2-Chlorophenol	7.60	128	2208	0.80	ng	# 94
9) Benzaldehyde	7.21	77	3857	1.82	ng	# 37
10) Phenol	7.24	94	3636	0.89	ng	# 1
11) bis(2-Chloroethyl)ether	7.46	93	2172	0.67	ng	# 76
12) 1,3-Dichlorobenzene	7.93	146	2133	0.69	ng	# 74
13) 1,4-Dichlorobenzene	8.08	146	2653	0.84	ng	# 67
14) 1,2-Dichlorobenzene	8.39	146	2774	0.91	ng	# 86
15) Benzyl Alcohol	8.35	79	7297	1.94	ng	# 75
16) 2,2'-oxybis(1-Chloropropan	8.58	45	3239	0.73	ng	# 85
18) Hexachloroethane	9.12	117	1027	0.78	ng	# 61
19) n-Nitroso-di-n-propylamine	8.86	70	1840	0.48	ng	# 93
24) Nitrobenzene	9.27	77	3748	0.85	ng	# 88
25) Isophorone	9.80	82	6489	0.77	ng	# 85
27) 2,4-Dimethylphenol	10.09	122	1281	0.49	ng	# 27
30) 1,2,4-Trichlorobenzene	10.75	180	3019	1.03	ng	# 58
31) Naphthalene	10.92	128	6559	0.79	ng	# 96
34) Hexachlorobutadiene	11.20	225	1778	0.77	ng	# 83
36) 4-Chloro-3-methylphenol	12.24	107	933	0.24	ng	# 72
37) 2-Methylnaphthalene	12.55	142	5255	0.83	ng	# 80
39) 1,2,4,5-Tetrachlorobenzene	12.91	216	2898	0.69	ng	# 90
45) 1,1'-Biphenyl	13.55	154	7167	0.73	ng	# 84
46) 2-Chloronaphthalene	13.61	162	5148	0.70	ng	# 86
47) 2-Nitroaniline	13.86	65	1647	0.48	ng	# 73
48) Acenaphthylene	14.45	152	9060	0.72	ng	# 96
49) Dimethylphthalate	14.18	163	9041	0.82	ng	# 97
50) 2,6-Dinitrotoluene	14.31	165	1181	0.51	ng	# 24
51) Acenaphthene	14.78	154	5853	0.77	ng	# 96
52) 3-Nitroaniline	14.71	138	879	0.38	ng	# 6
54) Dibenzofuran	15.13	168	10227	0.87	ng	# 84
56) 2,4-Dinitrotoluene	15.14	165	1114	0.31	ng	# 81
57) Fluorene	15.78	166	8975	0.87	ng	# 84
58) 2,3,4,6-Tetrachlorophenol	15.39	232	1872	0.69	ng	# 85
59) Diethylphthalate	15.53	149	9719	0.81	ng	# 96

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 LOD-SOIL2016-01-QT4

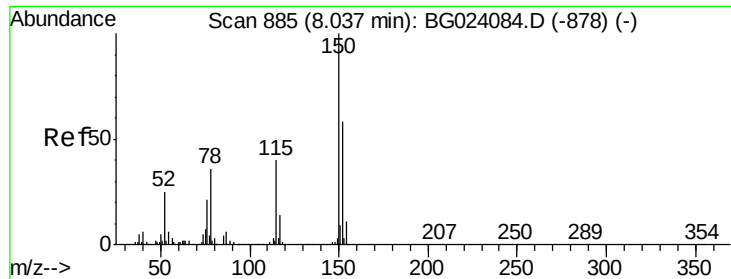
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 4-Chlorophenyl-phenylether	15.76	204	4117	0.75	ng	95
62) Azobenzene	16.05	77	9408	0.78	ng	85
65) n-Nitrosodiphenylamine	15.99	169	8236	0.83	ng	# 93
66) 4-Bromophenyl-phenylether	16.66	248	3403	0.80	ng	# 88
67) Hexachlorobenzene	16.79	284	4538	0.95	ng	95
68) Atrazine	16.94	200	3188	0.72	ng	94
70) Phenanthrene	17.53	178	16228m	0.87	ng	
71) Anthracene	17.64	178	14919	0.78	ng	94
72) Carbazole	17.92	167	13121	0.74	ng	# 85
73) Di-n-butylphthalate	18.44	149	17327	0.75	ng	96
74) Fluoranthene	19.55	202	19824	0.82	ng	86
76) Benzidine	19.76	184	7881	0.67	ng	# 92
77) Pyrene	19.92	202	21360	0.73	ng	# 86
79) Butylbenzylphthalate	20.78	149	7515	0.70	ng	# 91
80) Benzo(a)anthracene	21.77	228	21003	0.89	ng	# 87
81) 3,3'-Dichlorobenzidine	21.71	252	5156	0.61	ng	# 81
82) Chrysene	21.85	228	19160	0.86	ng	# 85
83) Bis(2-ethylhexyl)phthalate	21.64	149	13004	1.02	ng	97
84) Di-n-octyl phthalate	22.89	149	20447	0.93	ng	# 92
85) Indeno(1,2,3-cd)pyrene	29.01	276	21938m	0.88	ng	
87) Benzo(b)fluoranthene	24.07	252	17718	0.77	ng	# 76
88) Benzo(k)fluoranthene	24.15	252	21561	0.94	ng	# 84
89) Benzo(a)pyrene	24.99	252	18018	0.81	ng	# 96
90) Dibenzo(a,h)anthracene	29.04	278	18176m	0.81	ng	
91) Benzo(g,h,i)perylene	30.21	276	18061m	0.80	ng	

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 885

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

ClientSampleId :

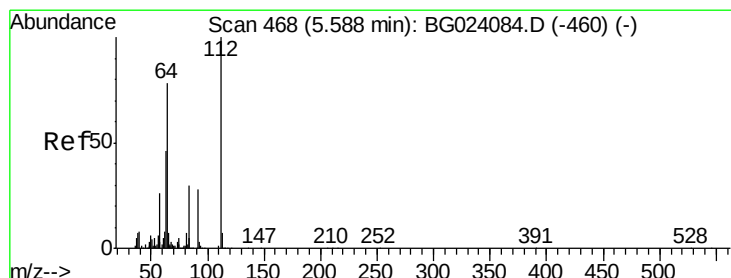
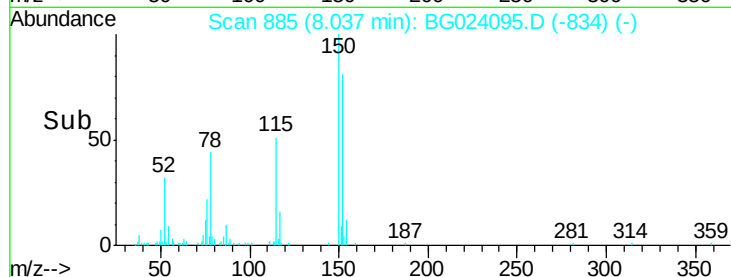
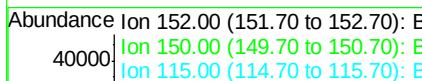
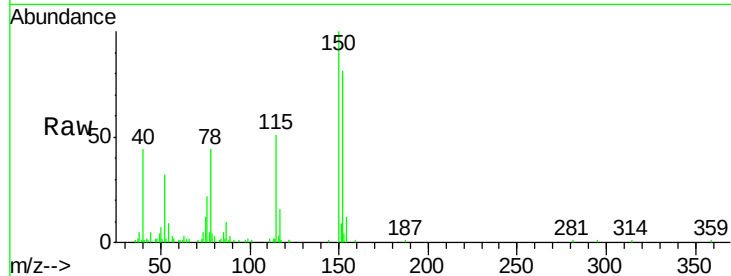
LOD-SOIL2016-01-QT4

Tgt Ion:	152	Resp:	39984
Ion Ratio	Lower	Upper	
152	100		
150	124.1	144.7	217.1#
115	62.9	64.0	96.0#

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#5

2-Fluorophenol

Concen: 130.24 ng

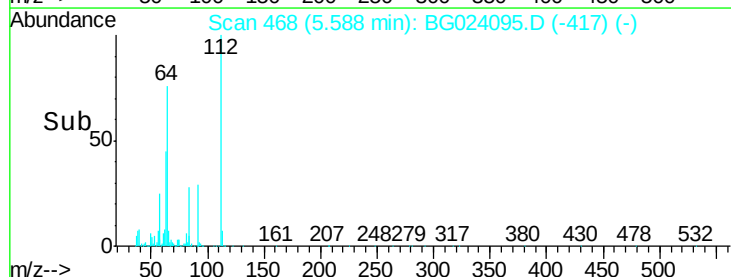
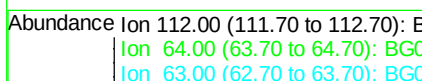
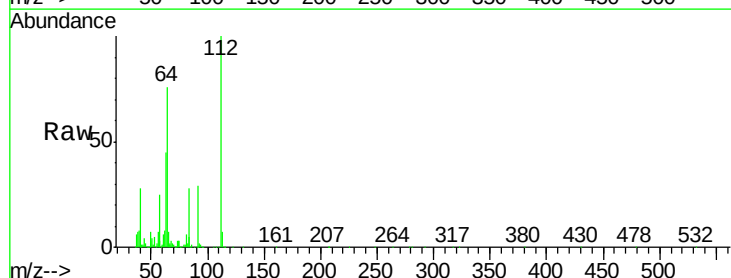
RT: 5.59 min Scan# 468

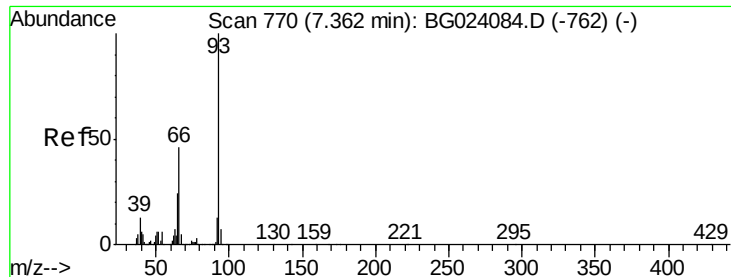
Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	112	Resp:	300580
Ion Ratio	Lower	Upper	
112	100		
64	75.9	59.0	88.4
63	45.0	37.8	56.8





#6

Aniline

Concen: 0.60 ng

RT: 7.37 min Scan# 771

Delta R.T. 0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

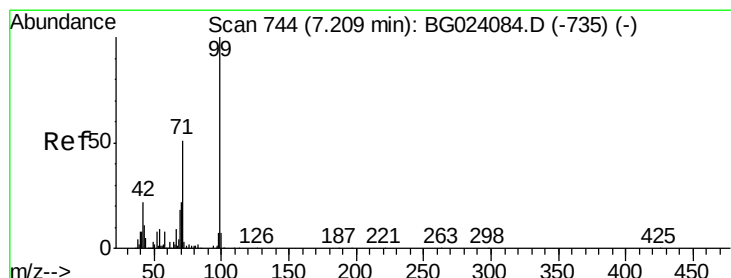
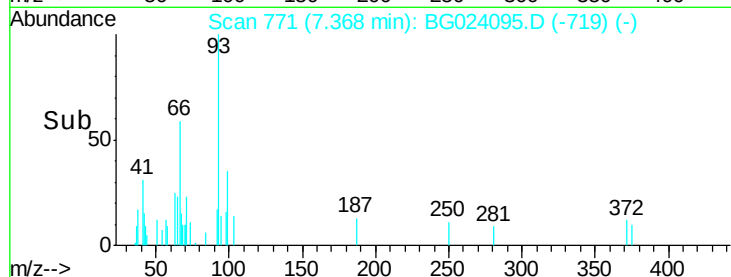
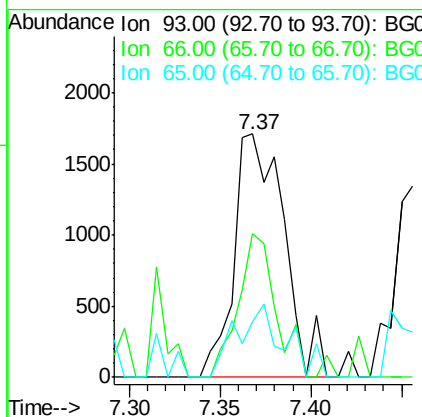
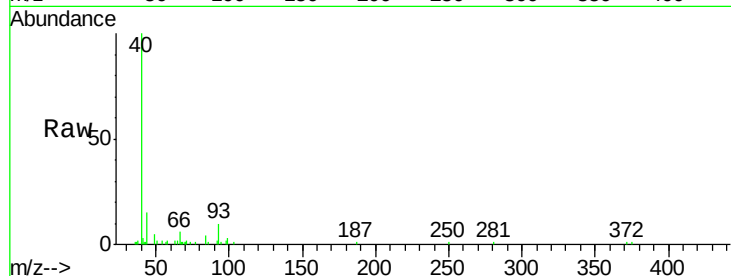
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
93	100		
66	59.3	37.5	56.3#
65	22.7	17.9	26.9

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#7

Phenol-d6

Concen: 119.62 ng

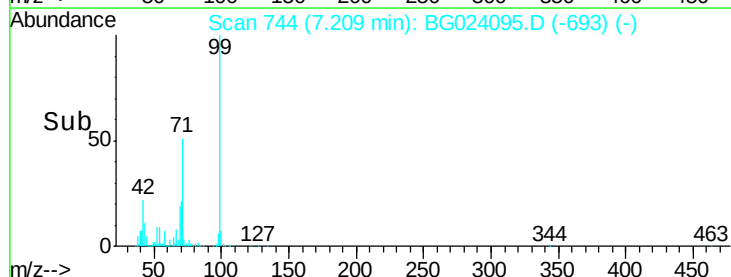
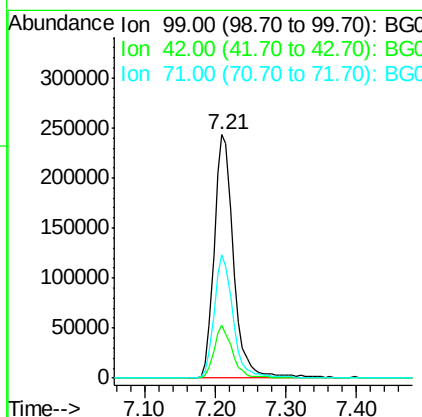
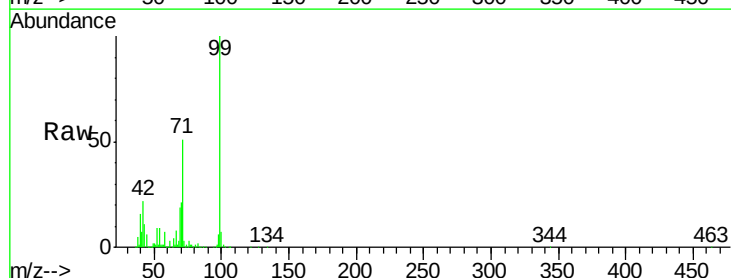
RT: 7.21 min Scan# 744

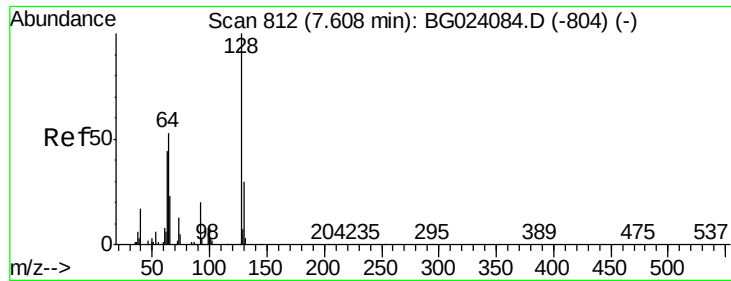
Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.8	26.6
71	50.8	41.5	62.3





#8

2-Chlorophenol

Concen: 0.80 ng

RT: 7.60 min Scan# 811

Delta R.T. -0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

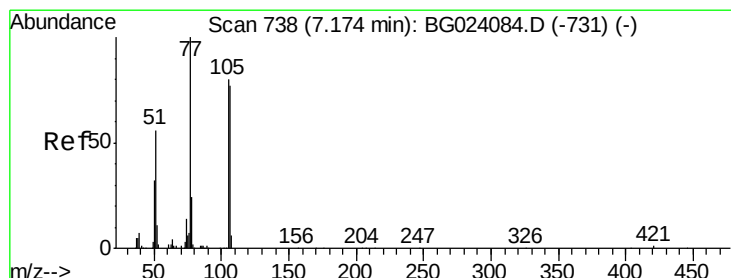
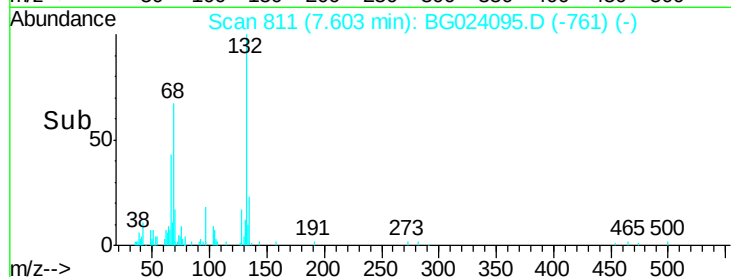
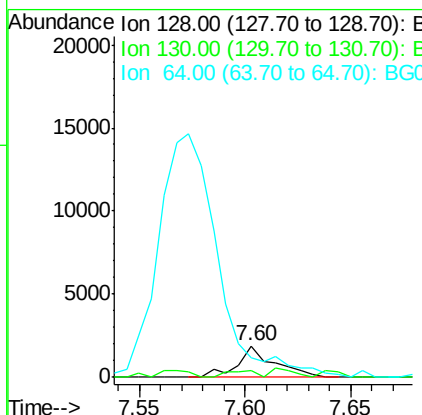
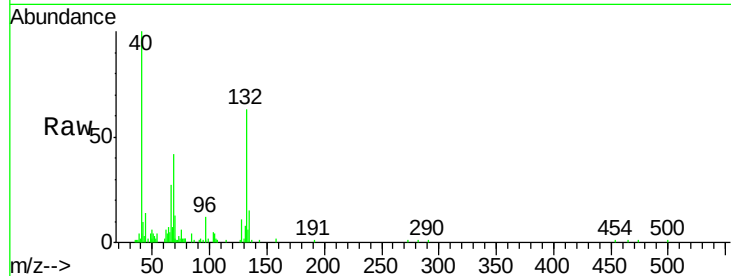
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	128	Resp:	2208
Ion Ratio	Lower	Upper	
128	100		
130	22.5	12.9	52.9
64	61.9	42.0	82.0

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#9

Benzaldehyde

Concen: 1.82 ng

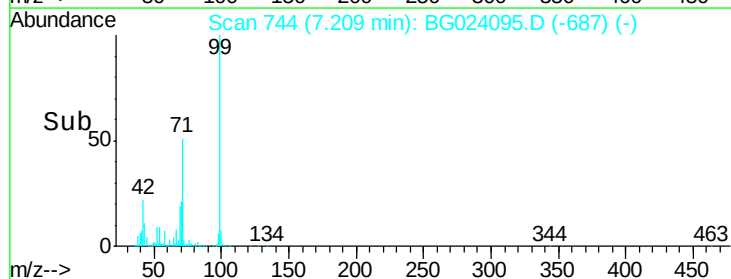
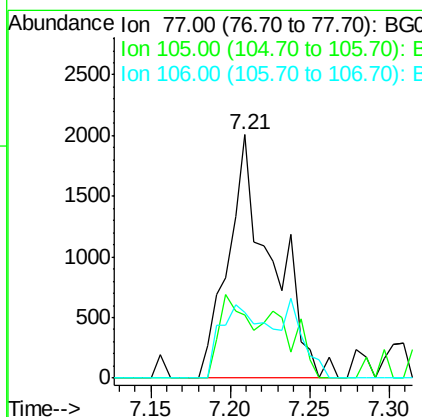
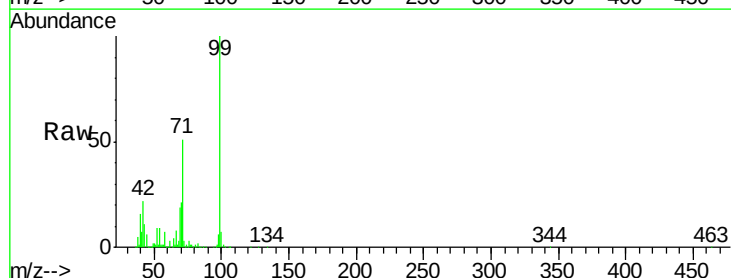
RT: 7.21 min Scan# 744

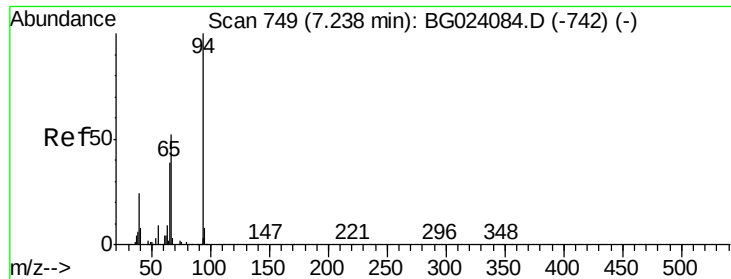
Delta R.T. 0.04 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	77	Resp:	3857
Ion Ratio	Lower	Upper	
77	100		
105	26.2	58.7	98.7#
106	26.9	67.5	107.5#





#10

Phenol

Concen: 0.89 ng

RT: 7.24 min Scan# 749

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

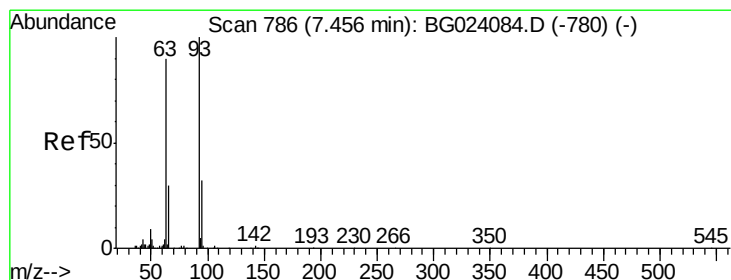
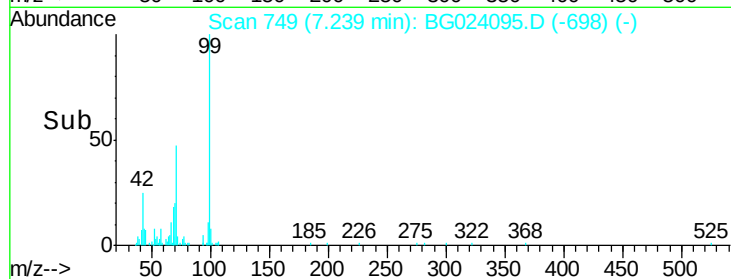
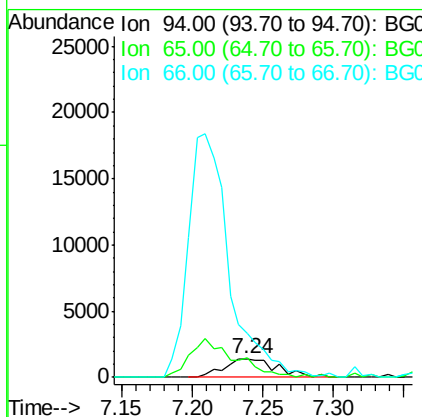
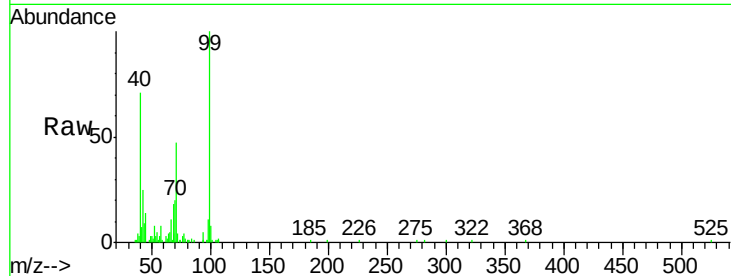
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	94	Resp:	3636
Ion	Ratio	Lower	Upper
94	100		
65	104.7	18.1	58.1#
66	238.2	42.1	82.1#

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#11

bis(2-Chloroethyl)ether

Concen: 0.67 ng

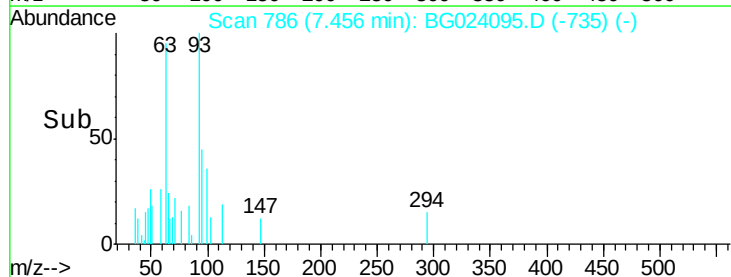
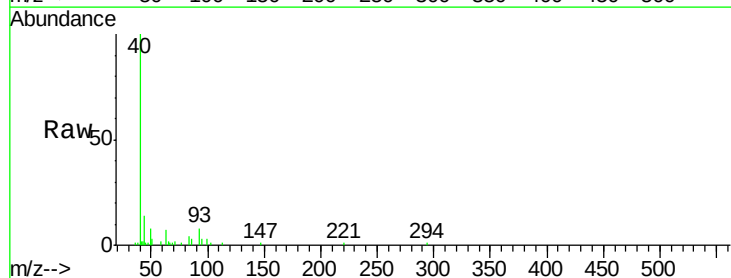
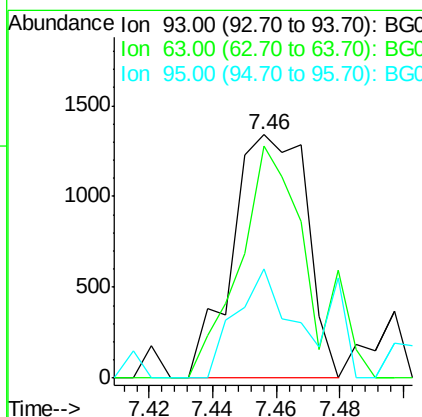
RT: 7.46 min Scan# 786

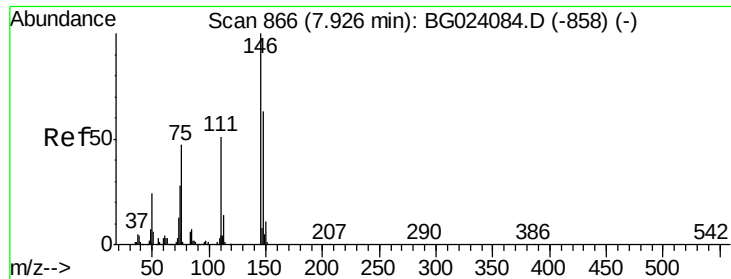
Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	93	Resp:	2172
Ion	Ratio	Lower	Upper
93	100		
63	95.2	55.0	95.0#
95	44.9	11.0	51.0





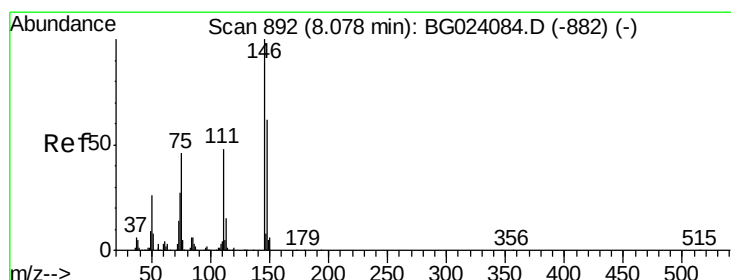
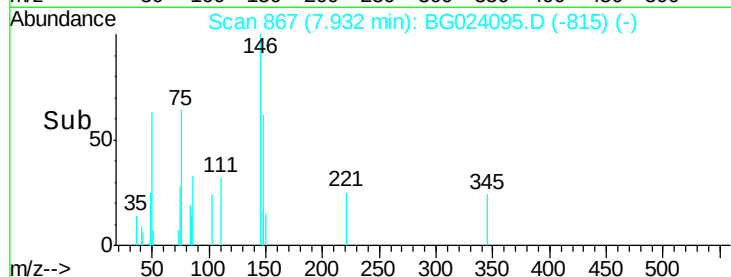
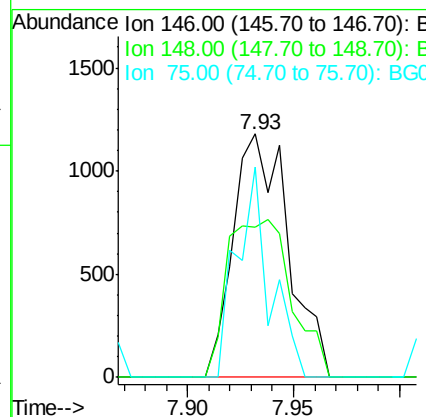
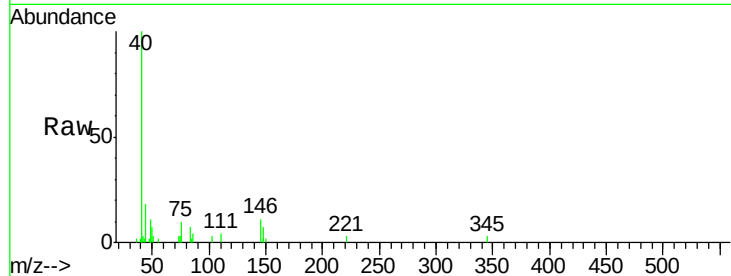
#12
 1,3-Dichlorobenzene
 Concen: 0.69 ng
 RT: 7.93 min Scan# 867
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
146	100		
148	61.9	50.3	75.5
75	86.2	37.0	55.6

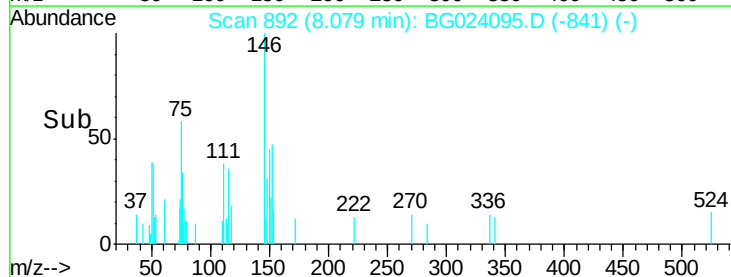
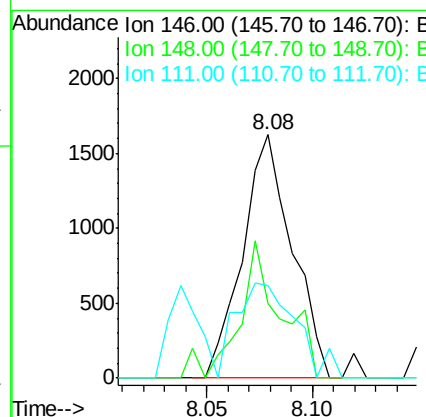
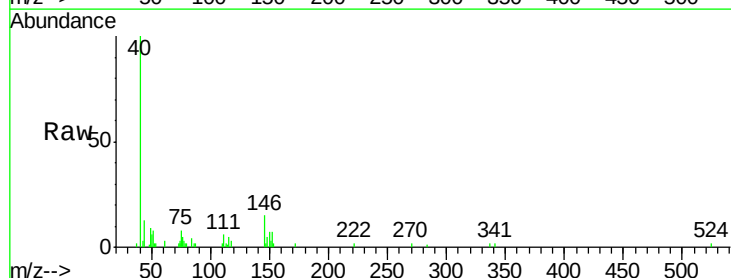
Manual Integrations
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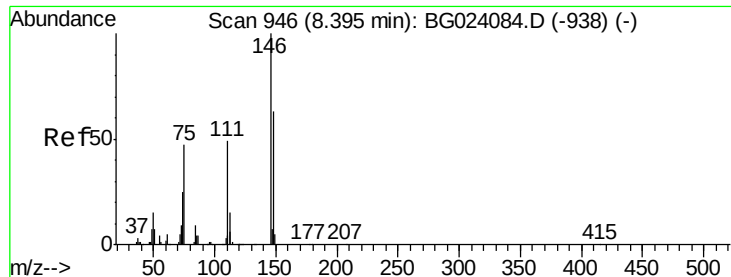
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#13
 1,4-Dichlorobenzene
 Concen: 0.84 ng
 RT: 8.08 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
146	100		
148	30.8	54.5	81.7
111	38.3	37.8	56.8





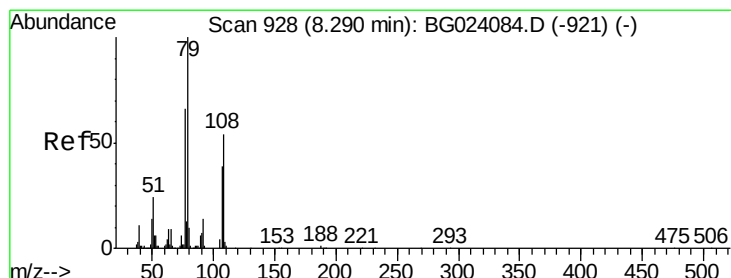
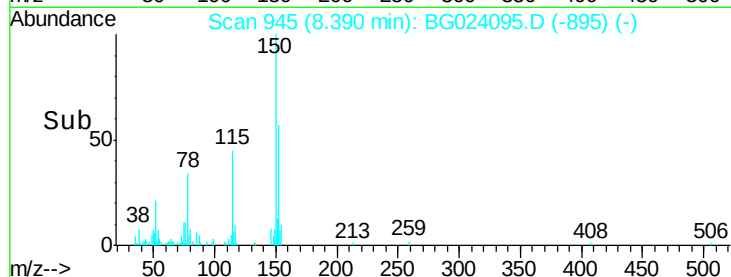
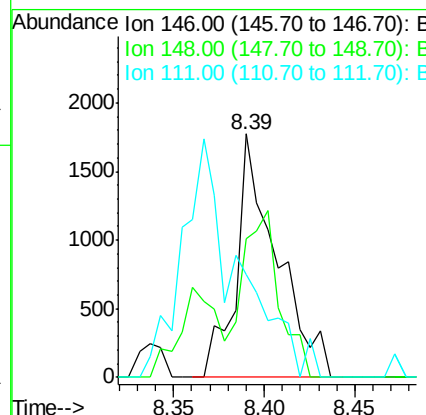
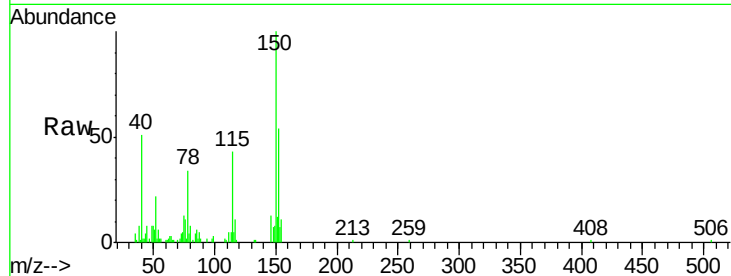
#14
 1,2-Dichlorobenzene
 Concen: 0.91 ng
 RT: 8.39 min Scan# 945
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
146	100		
148	57.2	52.9	79.3
111	42.3	43.5	65.3#

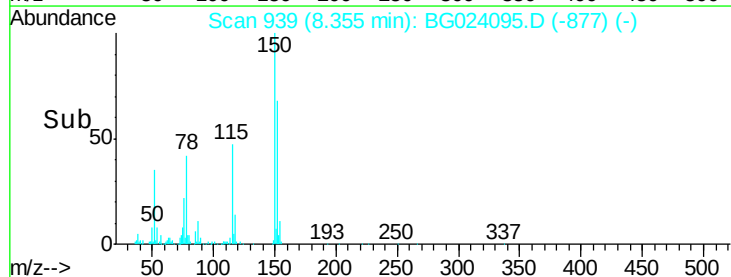
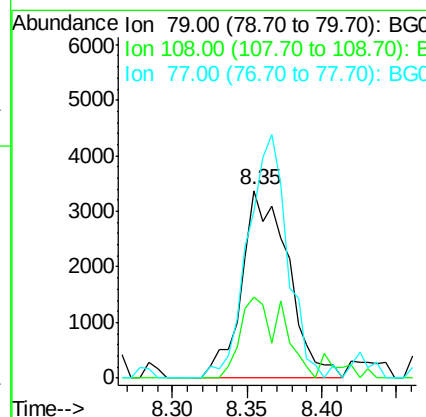
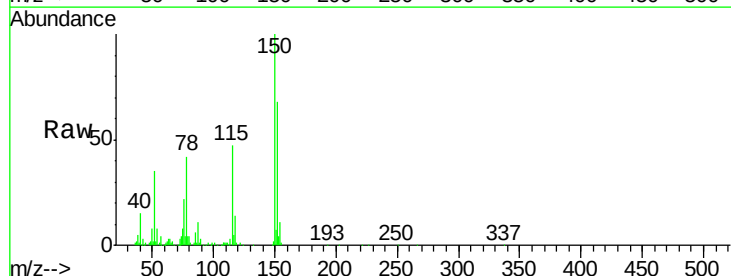
Manual Integrations
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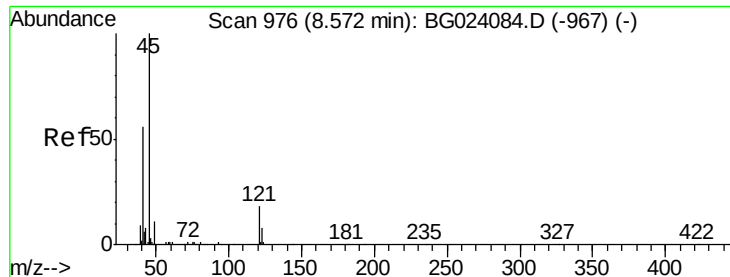
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#15
 Benzyl Alcohol
 Concen: 1.94 ng
 RT: 8.35 min Scan# 939
 Delta R.T. 0.06 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
79	100		
108	43.4	46.5	69.7#
77	89.1	52.3	78.5#





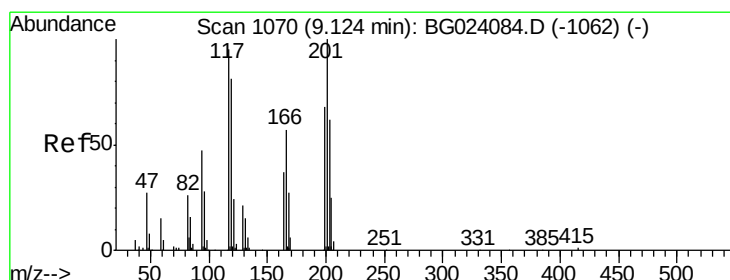
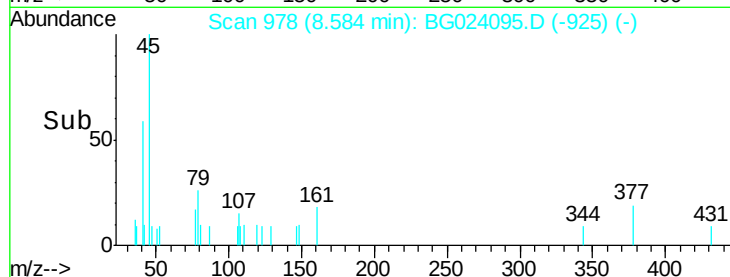
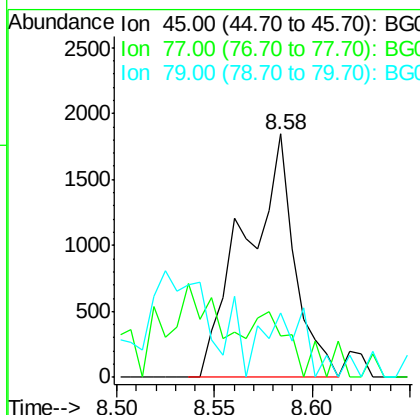
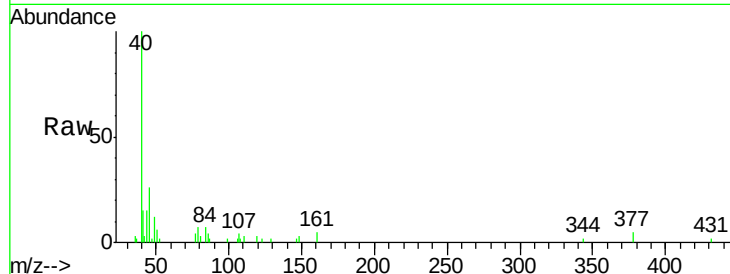
#16
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.73 ng
 RT: 8.58 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion:	45	Resp:	3239
Ion Ratio	Lower	Upper	
45	100		
77	17.1	0.6	40.6
79	26.3	0.0	36.2

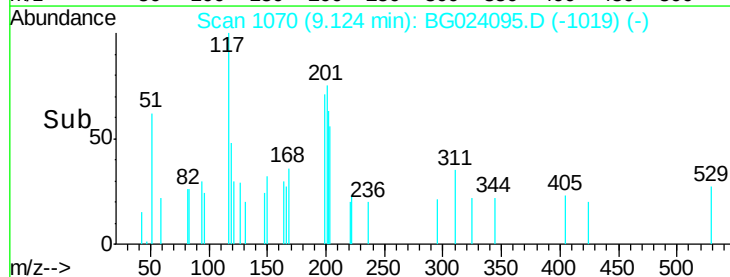
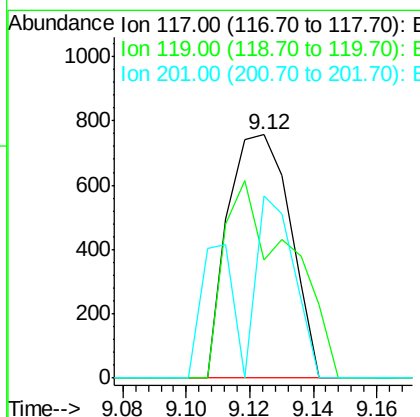
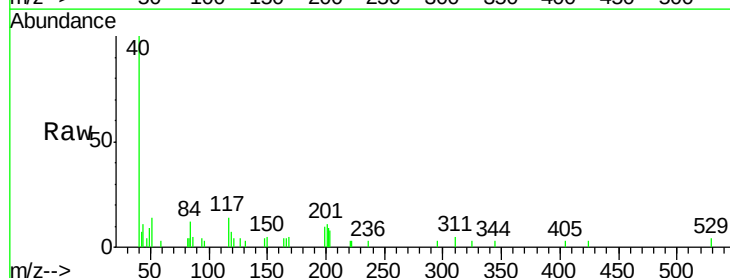
Manual Integrations
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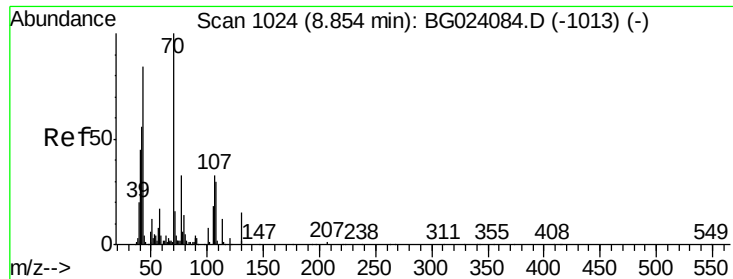
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#18
 Hexachloroethane
 Concen: 0.78 ng
 RT: 9.12 min Scan# 1070
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion:	117	Resp:	1027
Ion Ratio	Lower	Upper	
117	100		
119	48.3	73.7	110.5#
201	74.6	88.7	133.1#





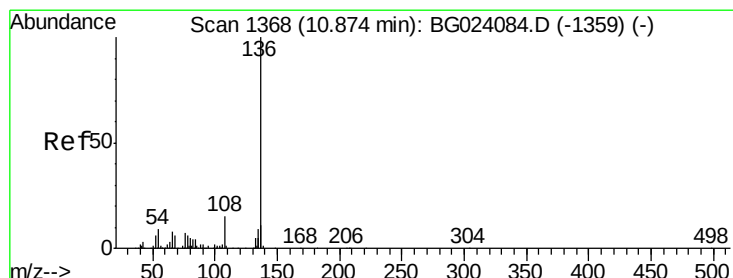
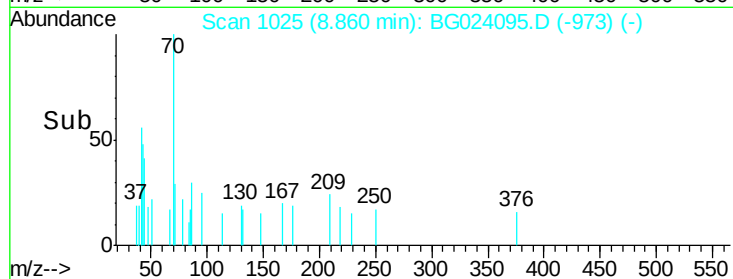
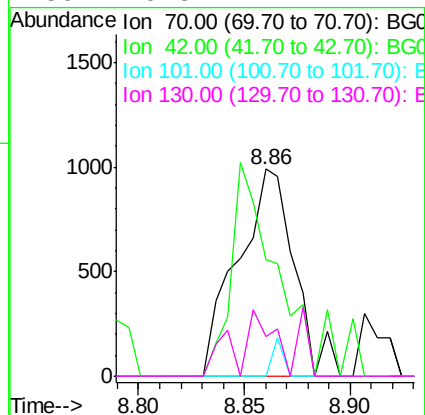
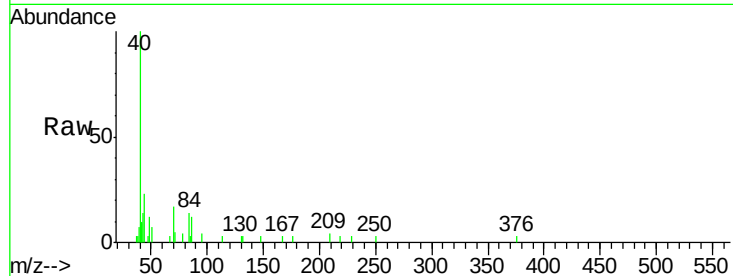
#19
n-Nitroso-di-n-propylamine
Concen: 0.48 ng
RT: 8.86 min Scan# 1025
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
70	100		
42	56.1	42.1	63.1
101	0.0	7.2	10.8#
130	19.3	14.2	21.2

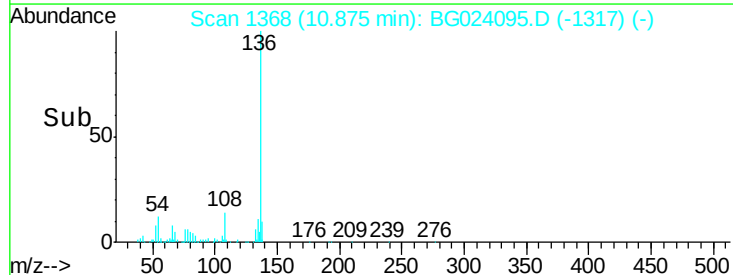
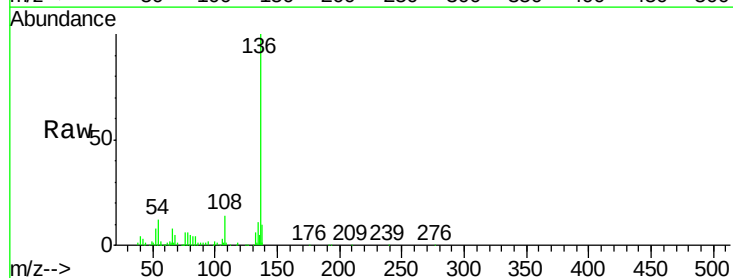
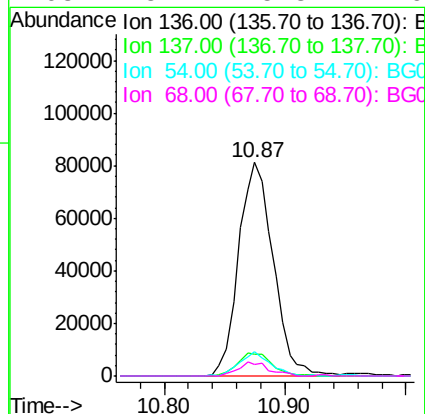
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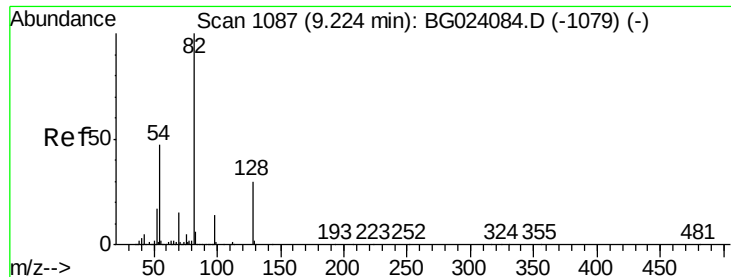
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.87 min Scan# 1368
Delta R.T. 0.00 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.0	9.6	14.4
54	11.5	7.3	10.9#
68	5.1	5.3	7.9#





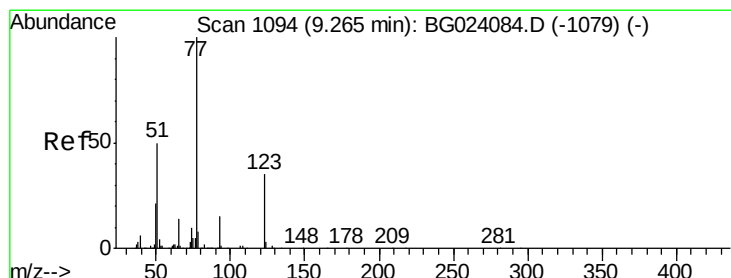
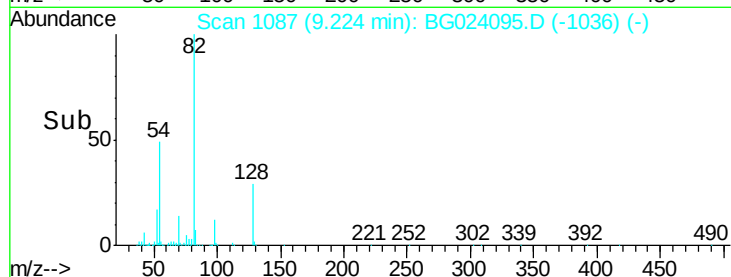
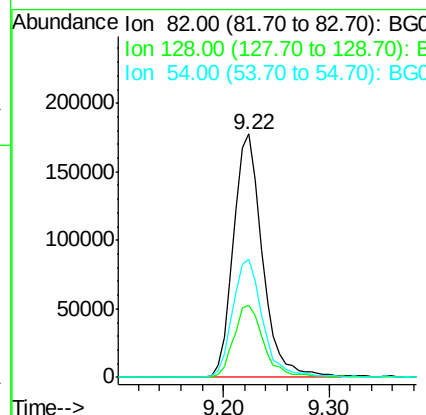
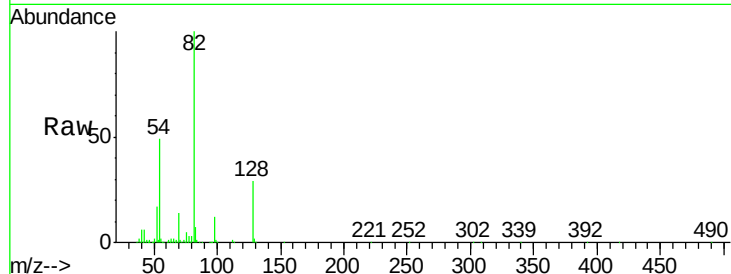
#23
 Nitrobenzene-d5
 Concen: 81.38 ng
 RT: 9.22 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	336393		
128	29.4	24.4	36.6	
54	48.7	41.4	62.0	

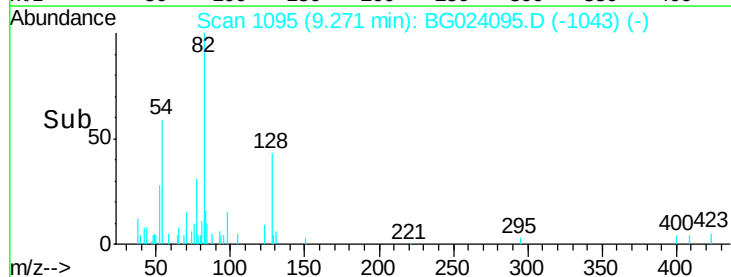
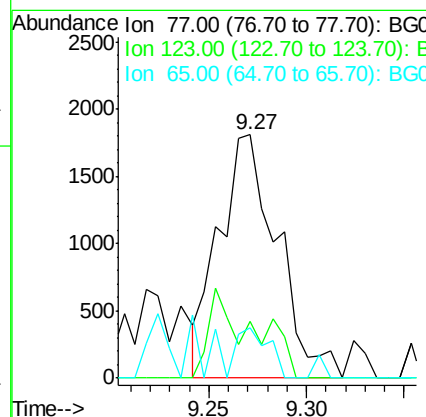
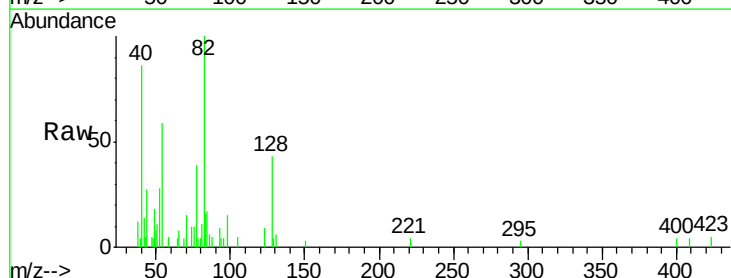
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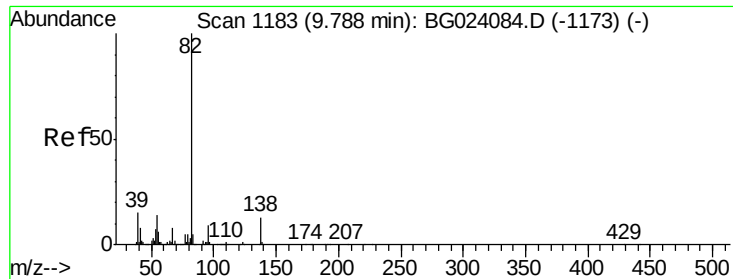
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#24
 Nitrobenzene
 Concen: 0.85 ng
 RT: 9.27 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
77	100	3748		
123	23.5	25.0	37.6#	
65	20.6	13.4	20.0#	





#25

Isophorone

Concen: 0.77 ng

RT: 9.80 min Scan# 1185

Delta R.T. 0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

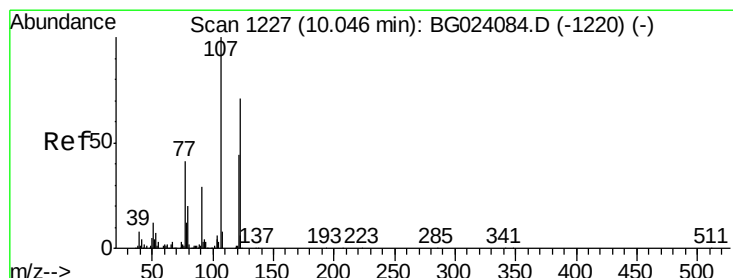
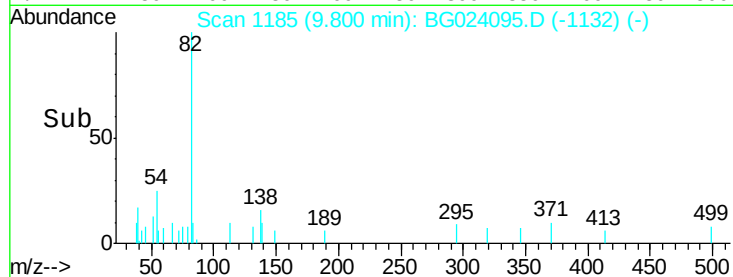
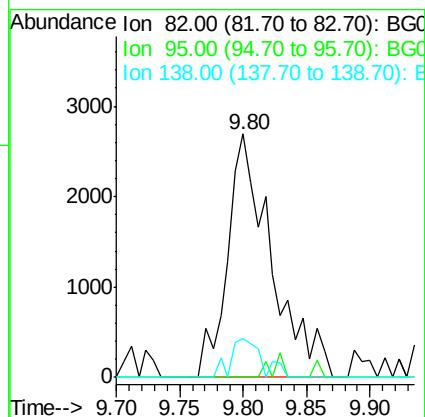
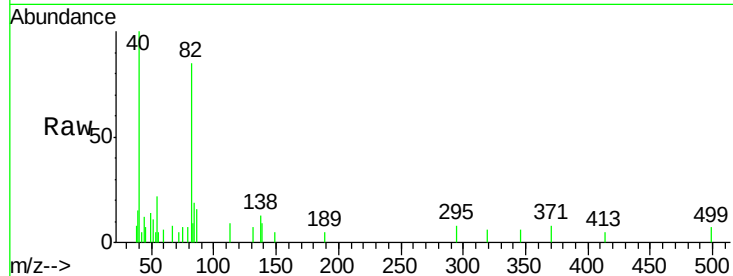
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	82	Resp:	6489
Ion Ratio	Lower	Upper	
82	100		
95	0.0	8.2	12.2#
138	15.8	10.7	16.1

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#27

2,4-Dimethylphenol

Concen: 0.49 ng

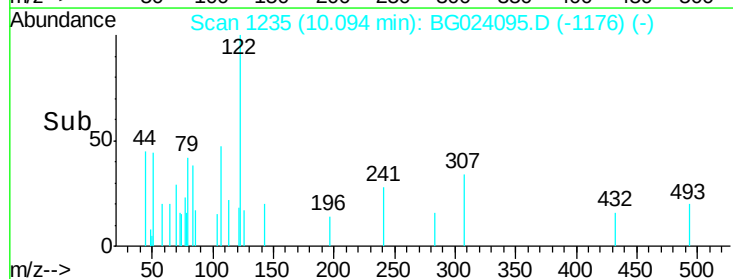
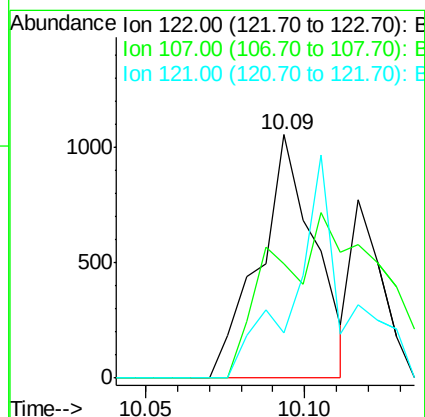
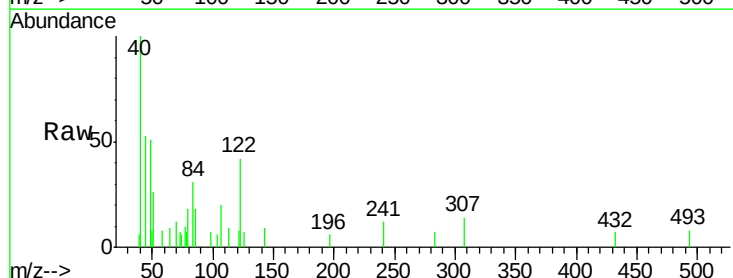
RT: 10.09 min Scan# 1235

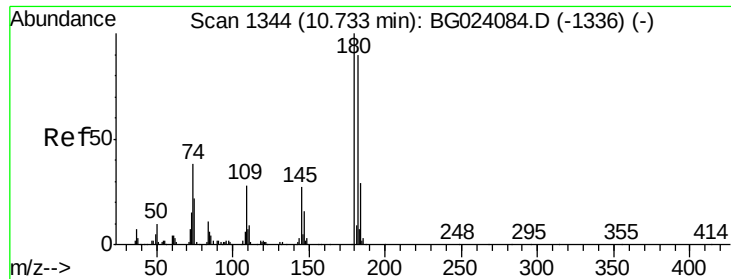
Delta R.T. 0.05 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	122	Resp:	1281
Ion Ratio	Lower	Upper	
122	100		
107	46.7	117.0	175.4#
121	18.4	50.1	75.1#





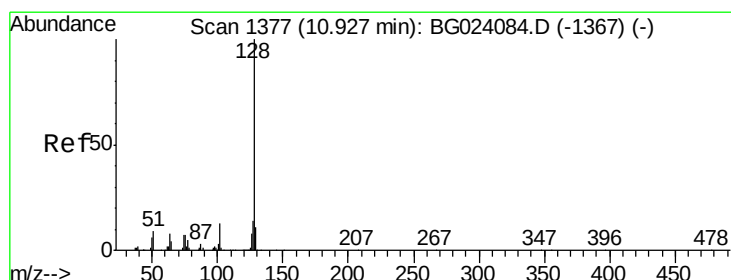
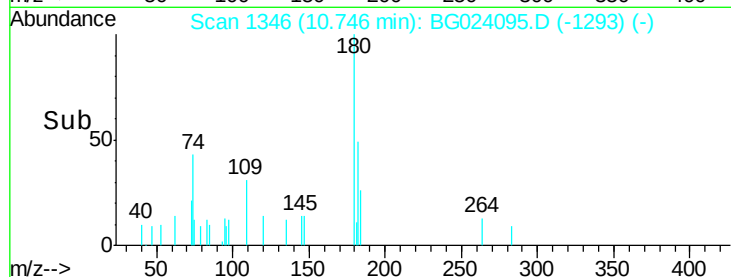
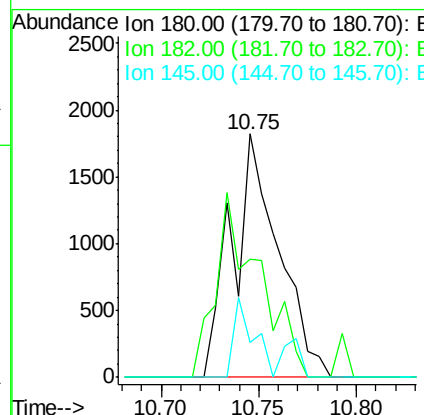
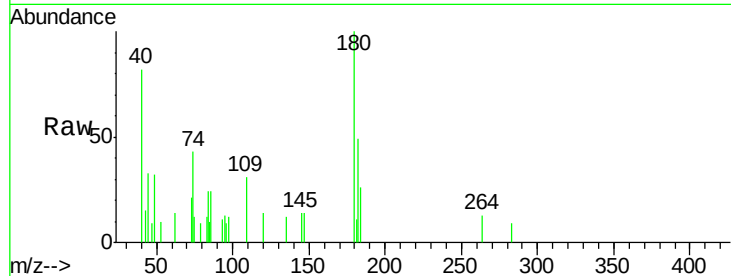
#30
 1,2,4-Trichlorobenzene
 Concen: 1.03 ng
 RT: 10.75 min Scan# 1346
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
180	100		
182	48.7	73.8	110.8#
145	14.4	24.4	36.6#

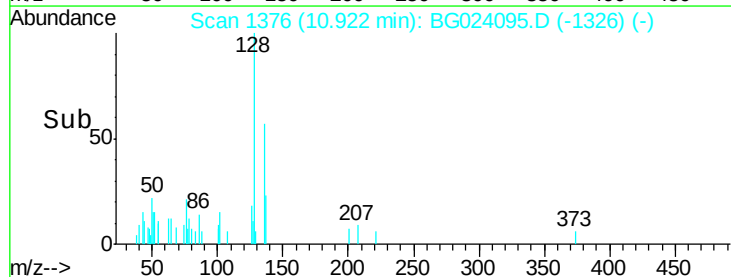
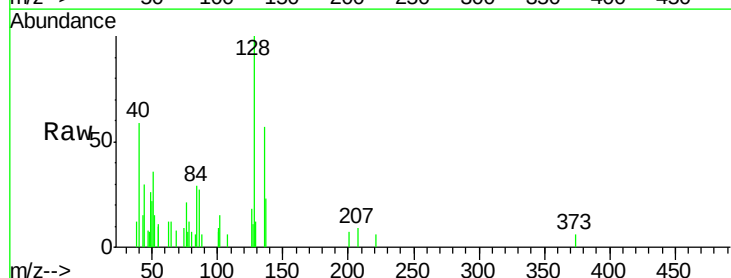
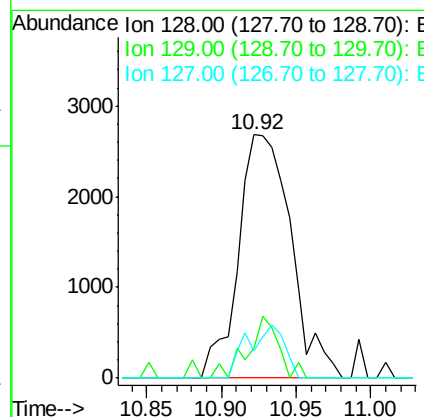
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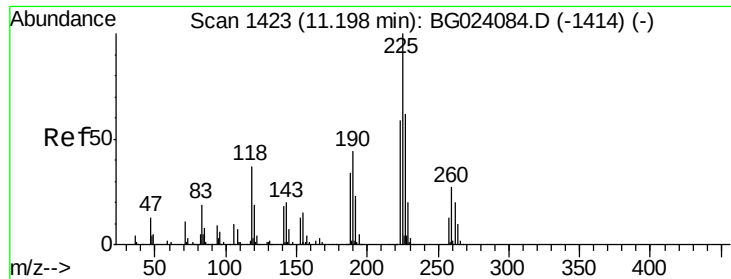
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#31
 Naphthalene
 Concen: 0.79 ng
 RT: 10.92 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.4	14.0
127	11.4	11.3	16.9





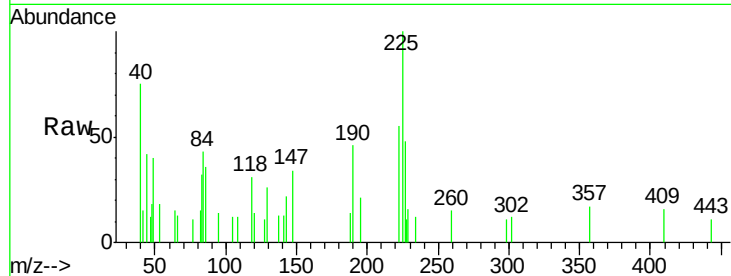
#34
Hexachlorobutadiene
Concen: 0.77 ng
RT: 11.20 min Scan# 1423
Delta R.T. 0.00 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

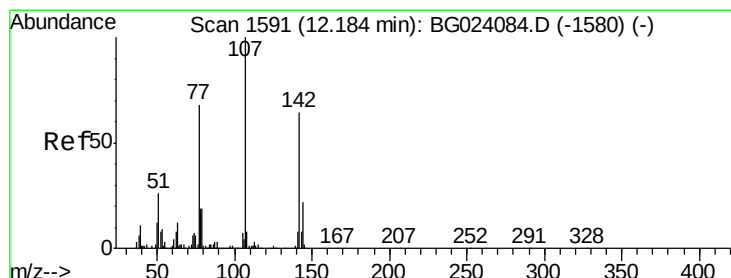
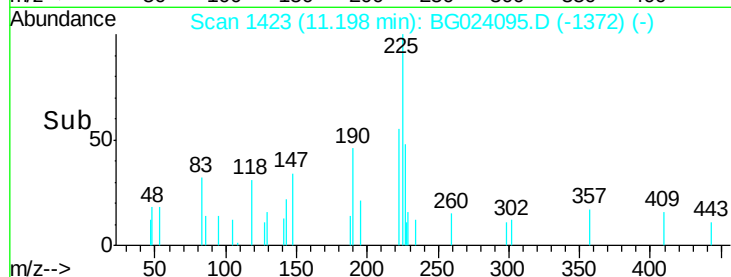
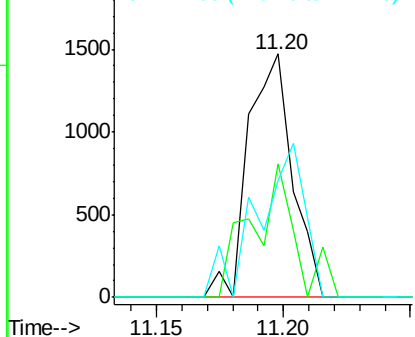
Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.0	49.6	74.4
227	48.1	54.5	81.7#

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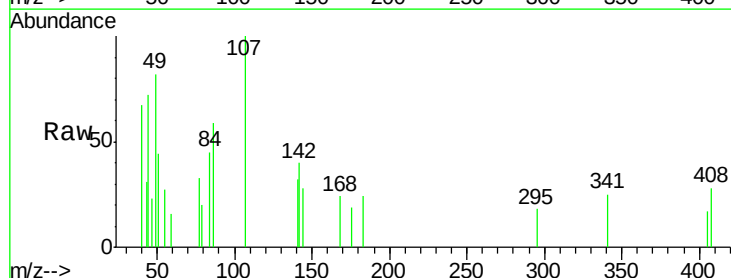


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

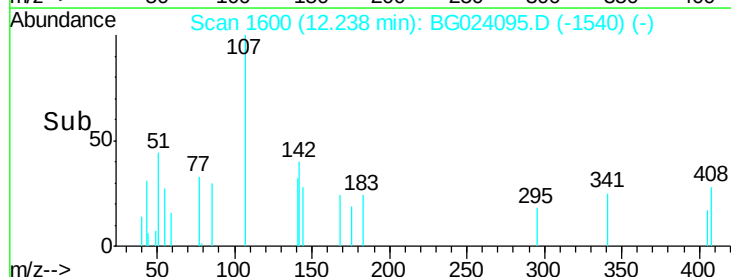
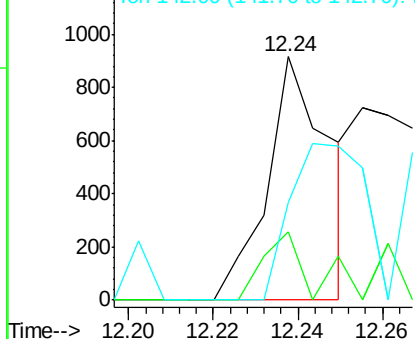


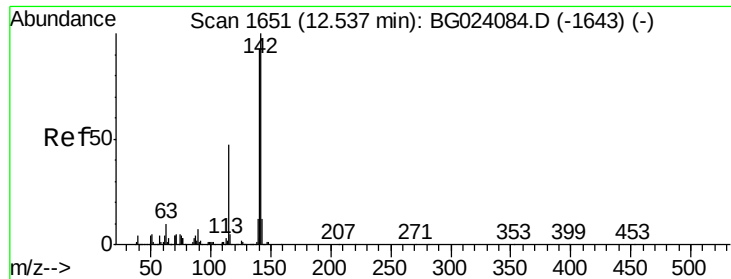
#36
4-Chloro-3-methylphenol
Concen: 0.24 ng
RT: 12.24 min Scan# 1600
Delta R.T. 0.05 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
107	100		
144	28.1	17.0	25.6#
142	40.4	53.0	79.6#



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 144.00 (143.70 to 144.70): E
Ion 142.00 (141.70 to 142.70): E





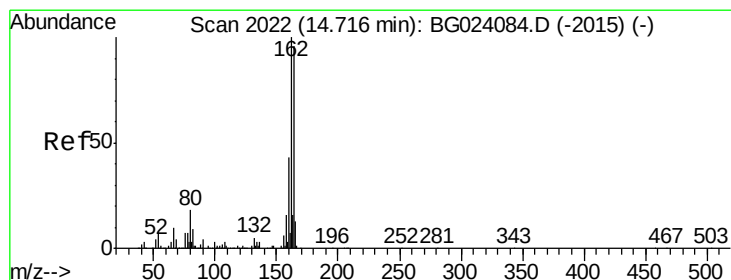
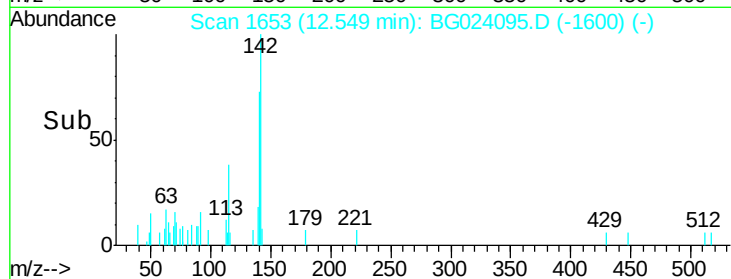
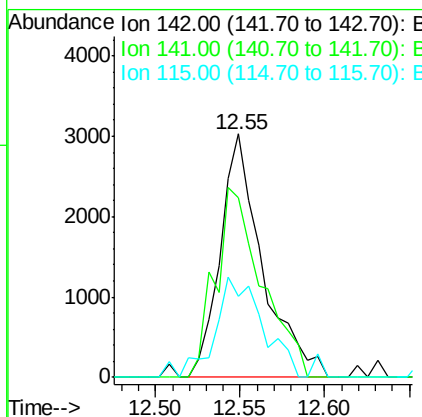
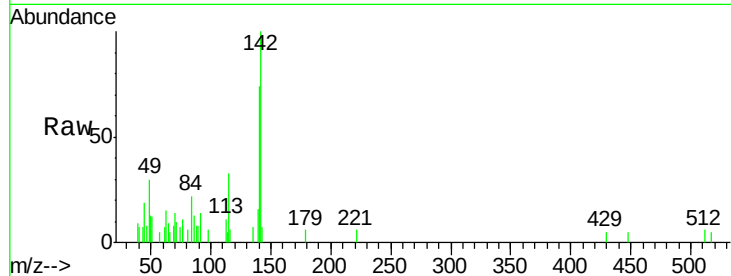
#37
2-Methylnaphthalene
Concen: 0.83 ng
RT: 12.55 min Scan# 1653
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
142	100		
141	73.7	70.2	105.2
115	33.1	41.7	62.5

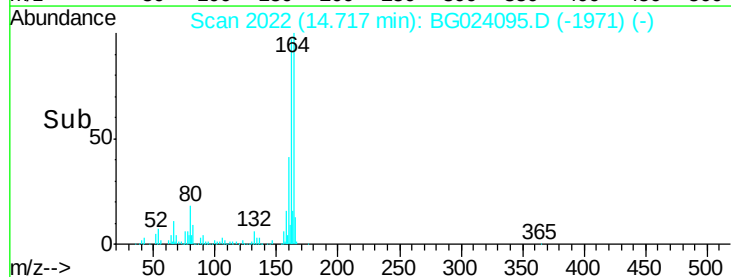
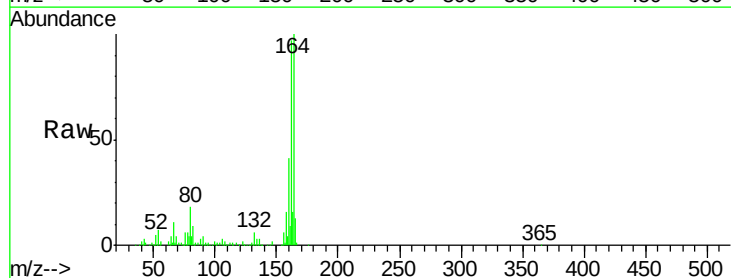
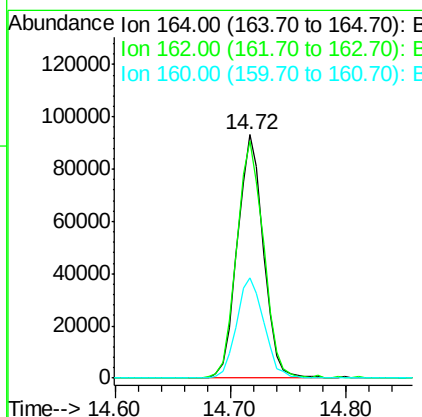
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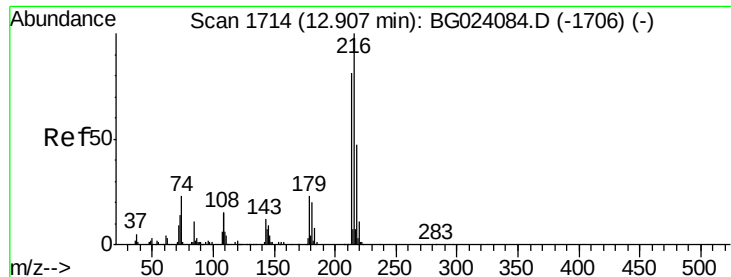
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.72 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.4	87.7	131.5
160	41.0	37.2	55.8





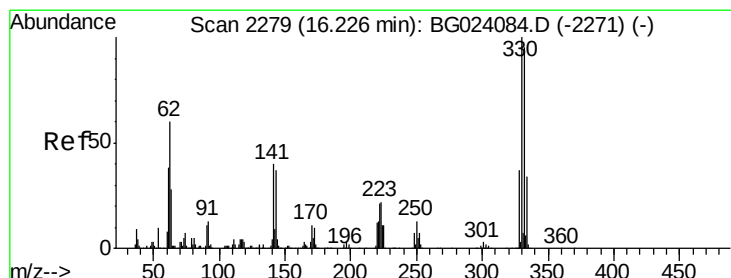
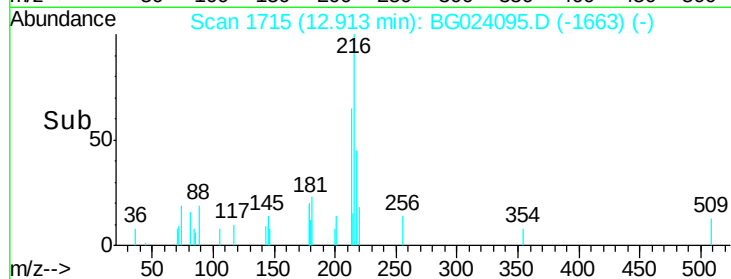
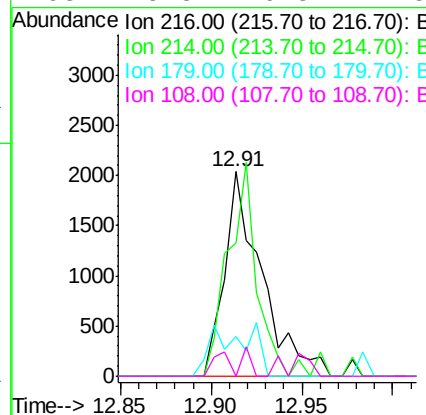
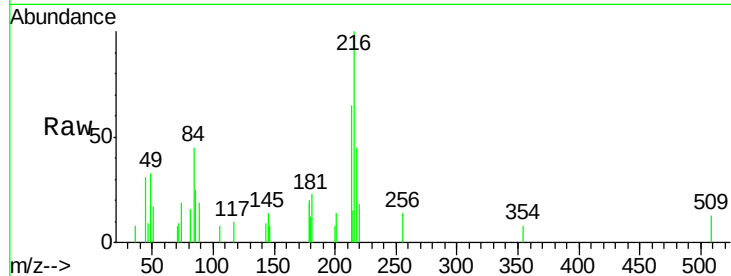
#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 0.69 ng
 RT: 12.91 min Scan# 1715
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
216	100	2898		
214	79.5	62.9	94.3	
179	11.5	17.2	25.8	
108	5.3	16.3	24.5	

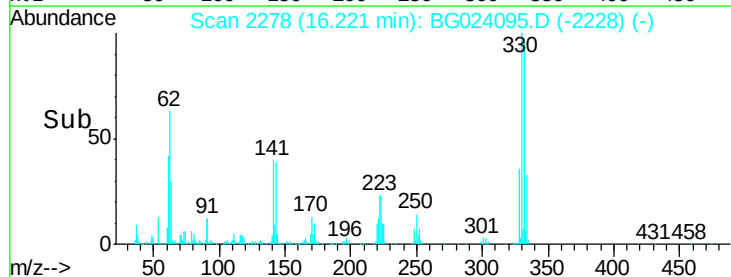
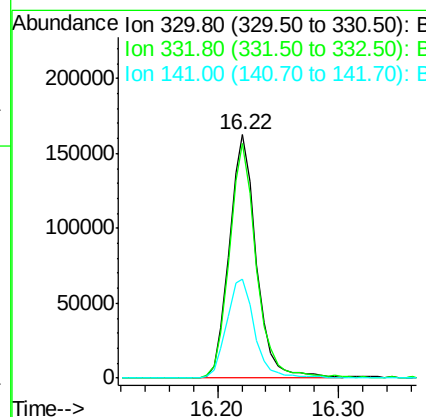
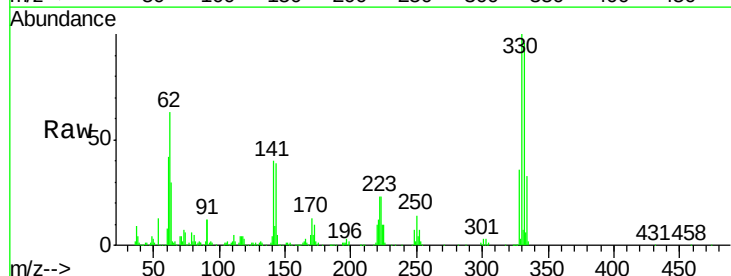
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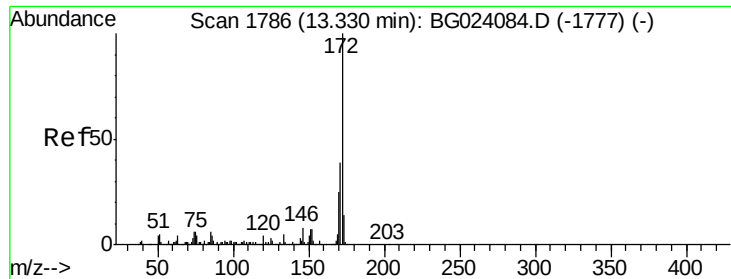
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#41
 2,4,6-Tribromophenol
 Concen: 121.37 ng
 RT: 16.22 min Scan# 2278
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	251848		
332	96.7	77.4	116.2	
141	42.4	31.7	47.5	





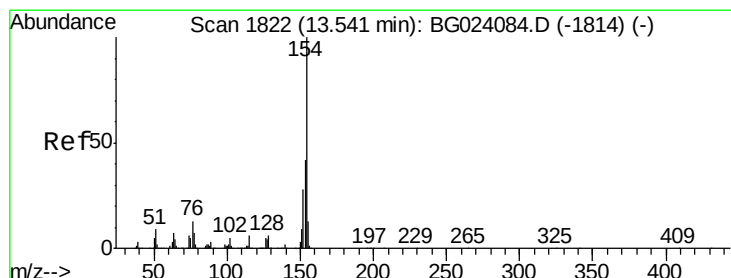
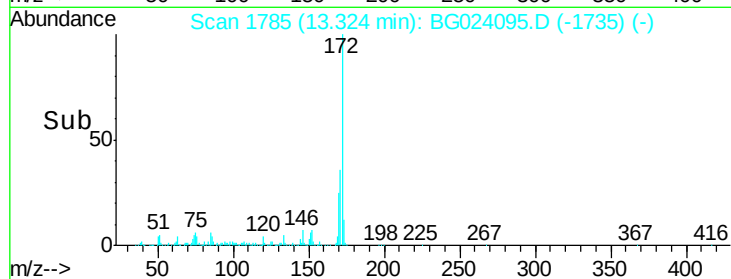
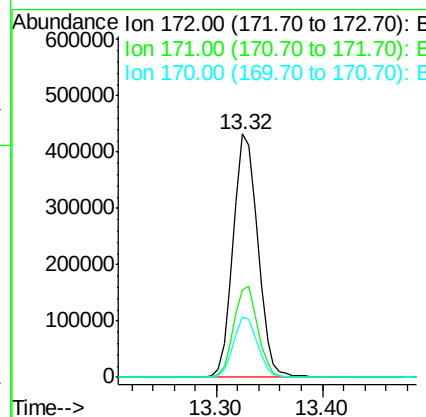
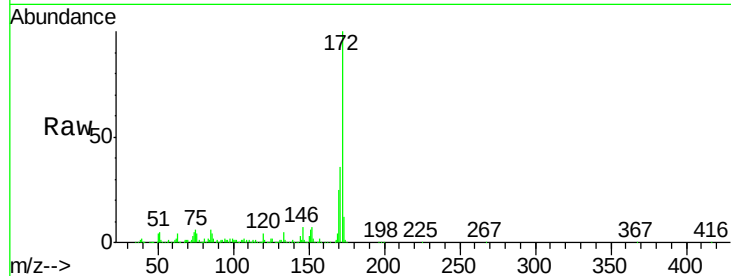
#44
 2-Fluorobiphenyl
 Concen: 80.93 ng
 RT: 13.32 min Scan# 1785
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	31.6	47.4
170	24.8	21.3	31.9

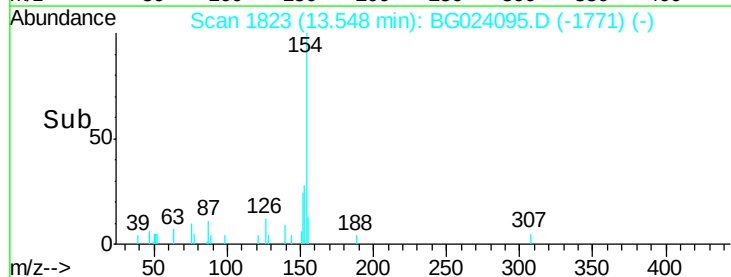
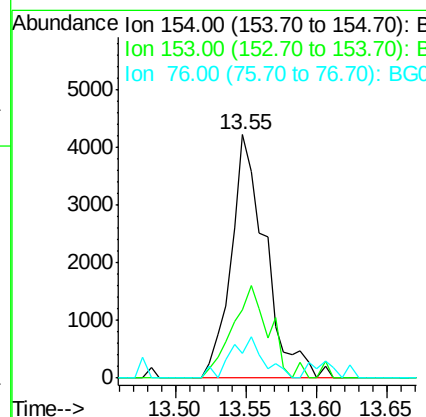
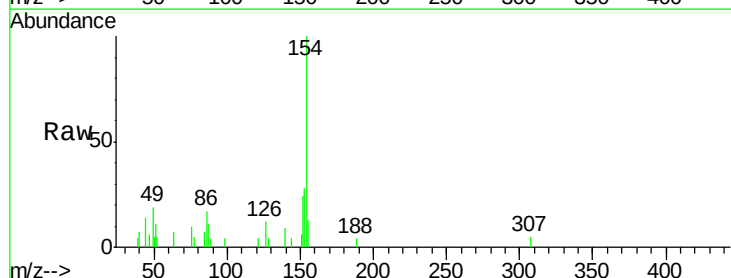
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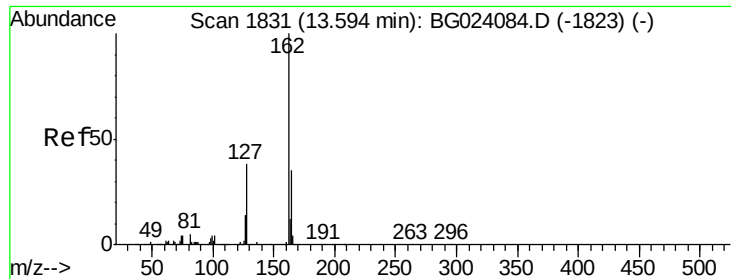
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#45
 1,1'-Biphenyl
 Concen: 0.73 ng
 RT: 13.55 min Scan# 1823
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	28.2	20.2	60.2
76	10.2	0.0	32.9





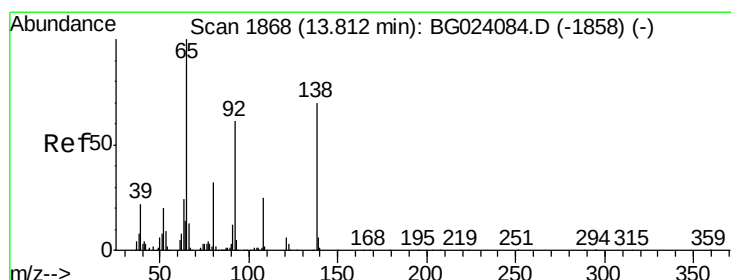
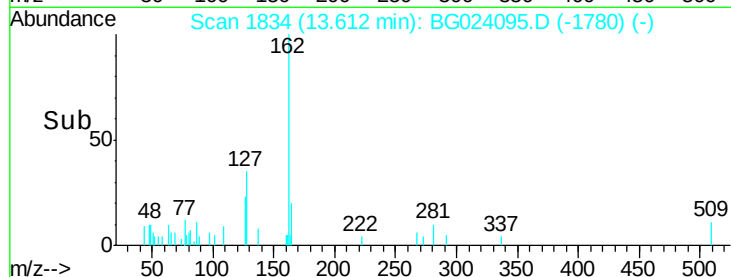
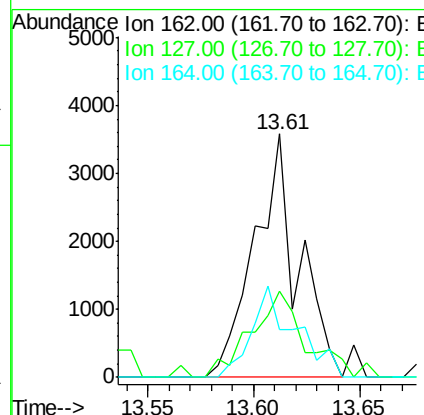
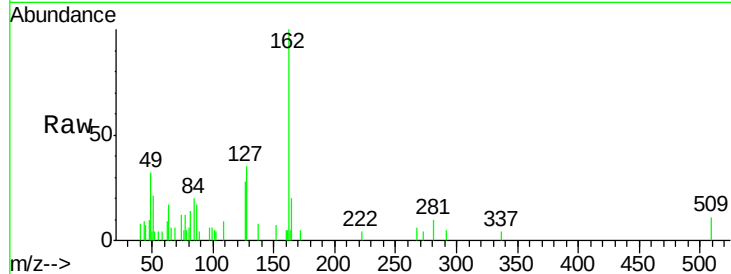
#46
 2-Chloronaphthalene
 Concen: 0.70 ng
 RT: 13.61 min Scan# 1834
 Delta R.T. 0.02 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
162	100		
127	35.4	32.4	48.6
164	19.8	25.2	37.8#

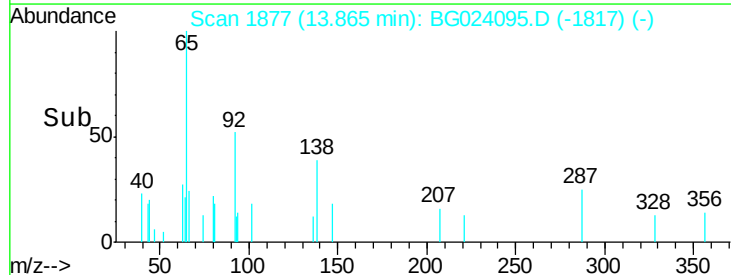
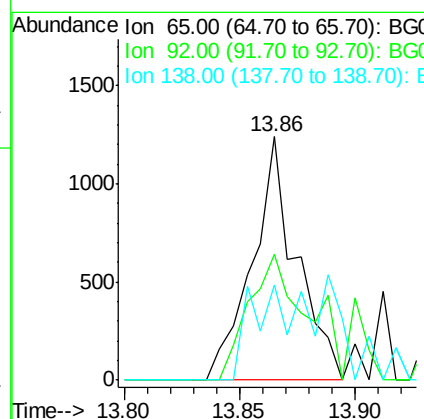
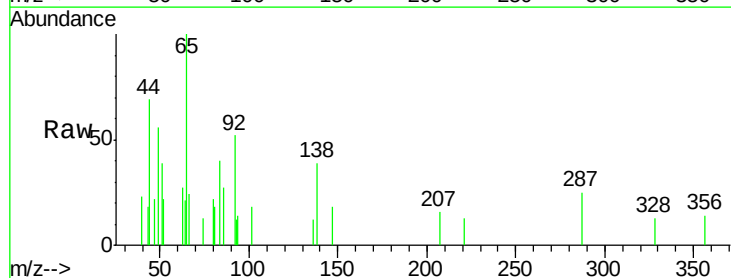
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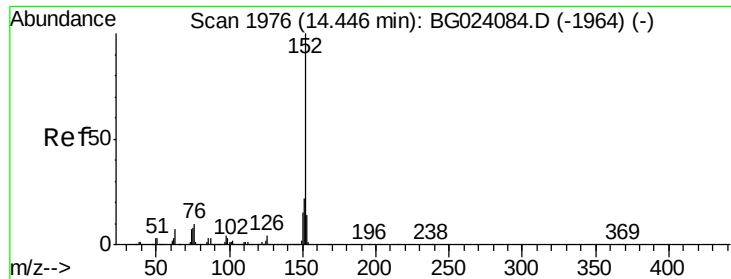
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#47
 2-Nitroaniline
 Concen: 0.48 ng
 RT: 13.86 min Scan# 1877
 Delta R.T. 0.05 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
65	100		
92	51.8	49.4	74.0
138	39.3	58.0	87.0#





#48

Acenaphthylene

Concen: 0.72 ng

RT: 14.45 min Scan# 1976

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

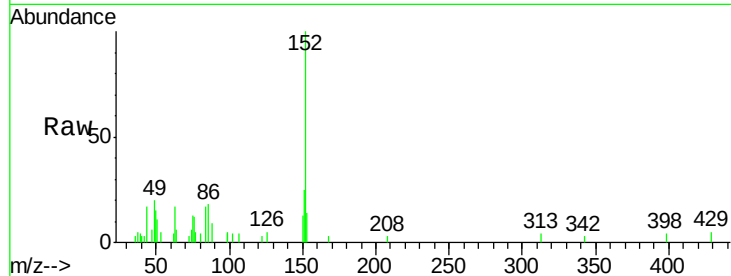
ClientSampleId :

LOD-SOIL2016-01-QT4

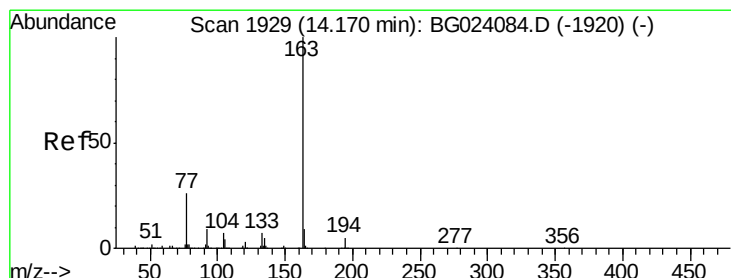
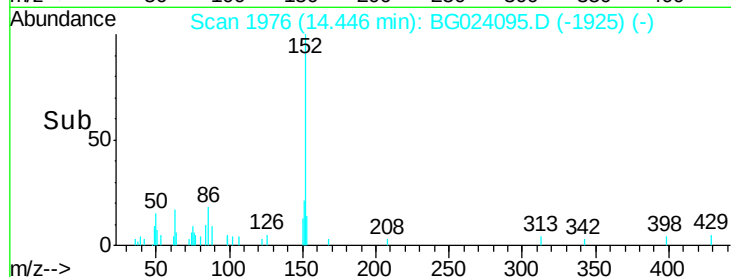
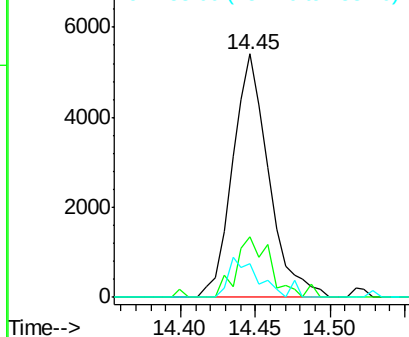
Tgt Ion:	152	Resp:	9060
Ion Ratio	Lower	Upper	
152	100		
151	24.7	17.6	26.4
153	13.7	11.4	17.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 0.82 ng

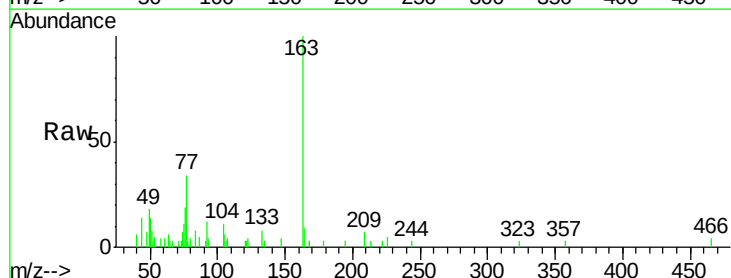
RT: 14.18 min Scan# 1930

Delta R.T. 0.01 min

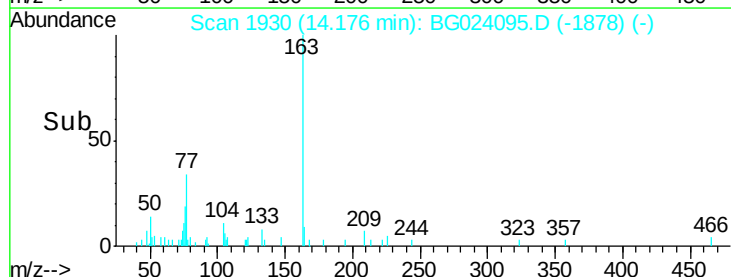
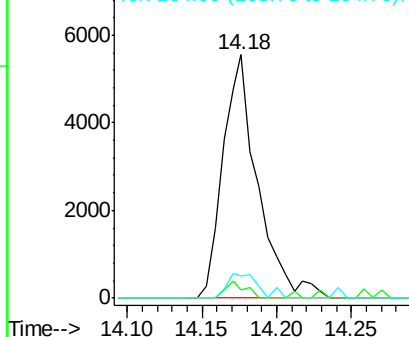
Lab File: BG024095.D

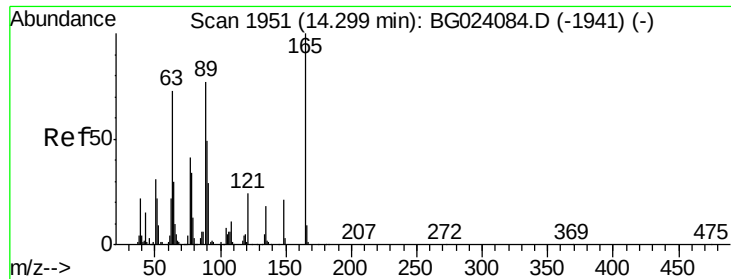
Acq: 23 Sep 2016 20:03

Tgt Ion:	163	Resp:	9041
Ion Ratio	Lower	Upper	
163	100		
194	3.4	3.6	5.4#
164	9.2	8.1	12.1



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





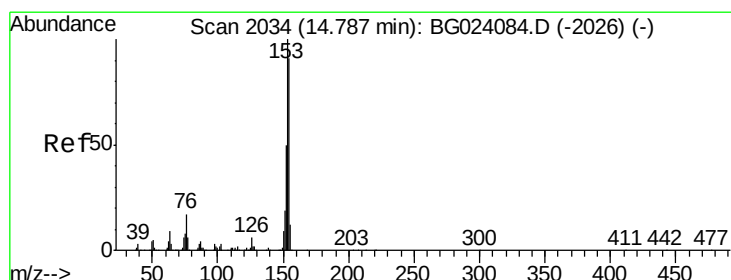
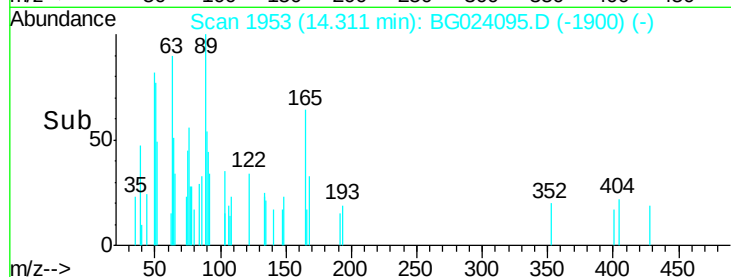
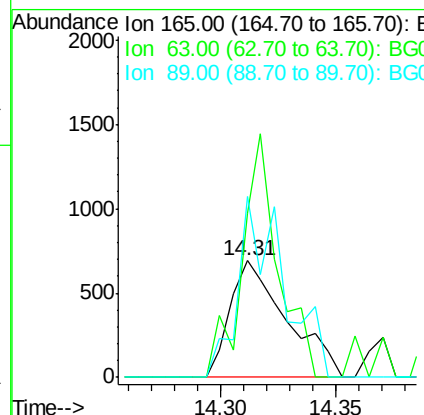
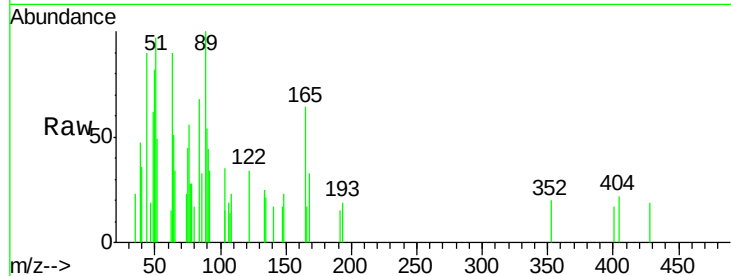
#50
2,6-Dinitrotoluene
Concen: 0.51 ng
RT: 14.31 min Scan# 1953
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	1181		
63	140.3		64.3	96.5#
89	155.1		64.3	96.5#

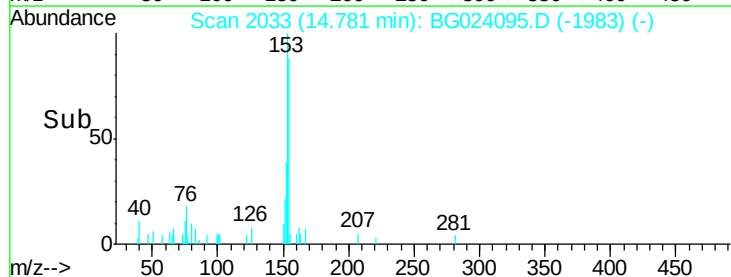
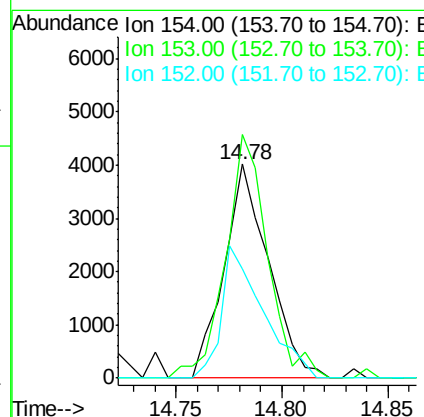
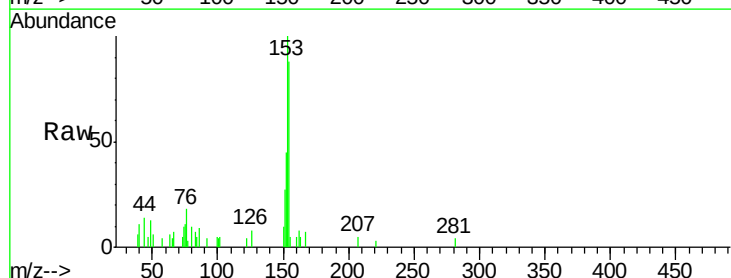
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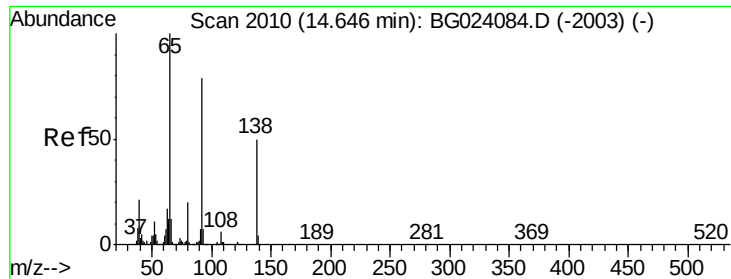
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#51
Acenaphthene
Concen: 0.77 ng
RT: 14.78 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

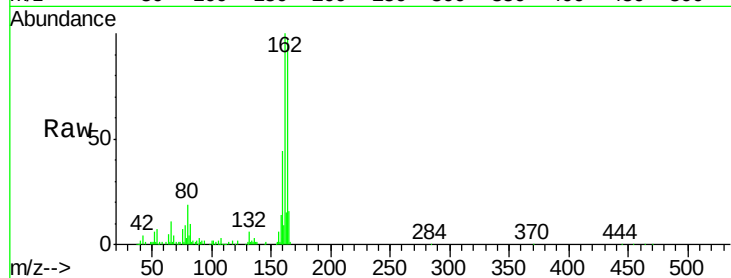
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	5853		
153	113.9		87.5	131.3
152	50.9		42.7	64.1





#52
3-Nitroaniline
Concen: 0.38 ng
RT: 14.71 min Scan# 2021
Delta R.T. 0.07 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

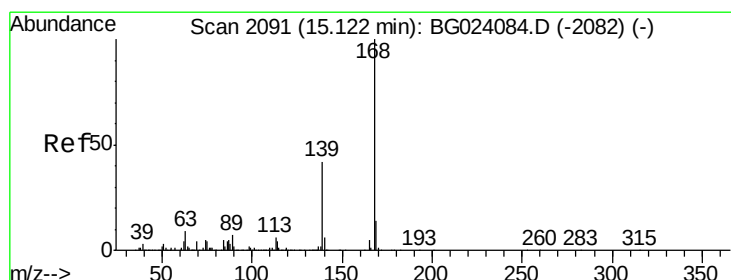
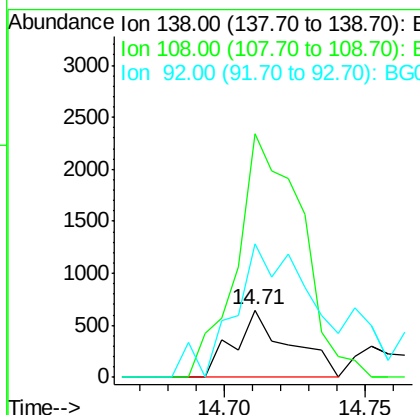
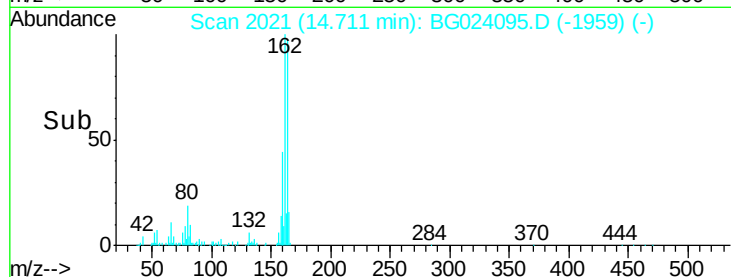
Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4



Tgt Ion:138 Resp: 879
Ion Ratio Lower Upper
138 100
108 360.7 11.7 17.5#
92 197.1 129.7 194.5#

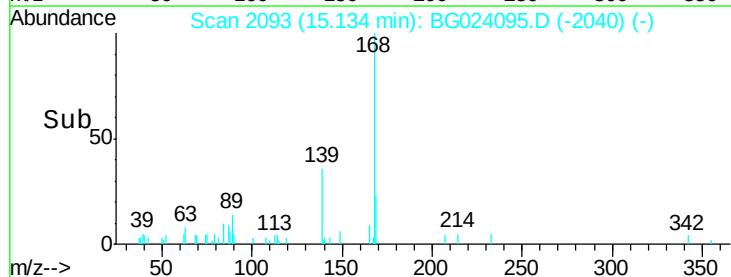
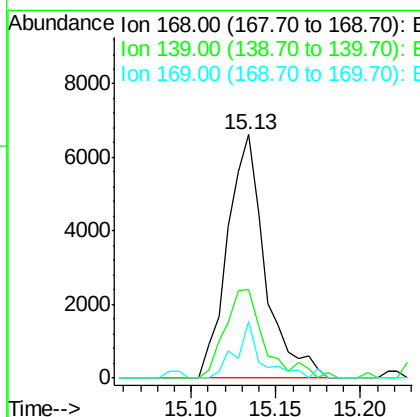
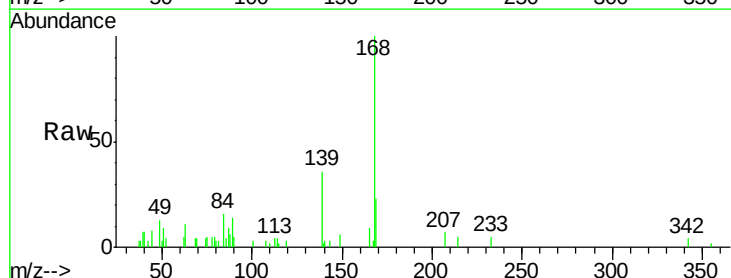
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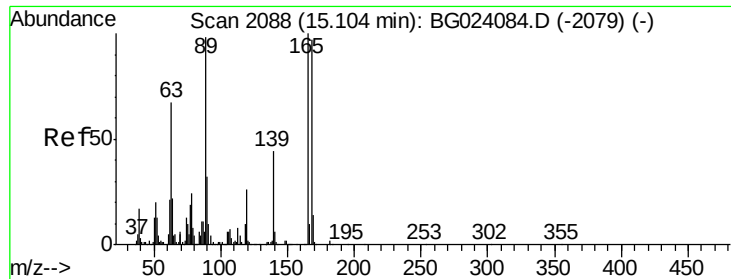
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#54
Dibenzofuran
Concen: 0.87 ng
RT: 15.13 min Scan# 2093
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

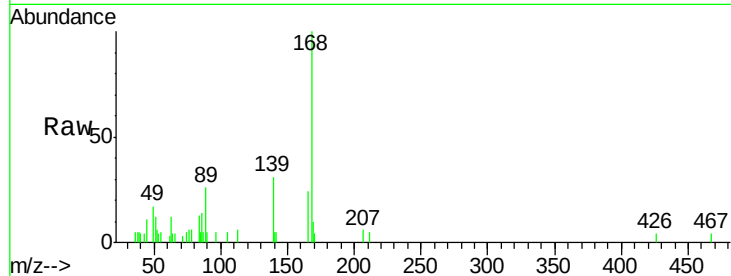
Tgt Ion:168 Resp: 10227
Ion Ratio Lower Upper
168 100
139 36.2 36.4 54.6#
169 23.5 11.9 17.9#





#56
2,4-Dinitrotoluene
Concen: 0.31 ng
RT: 15.14 min Scan# 2094
Delta R.T. 0.04 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

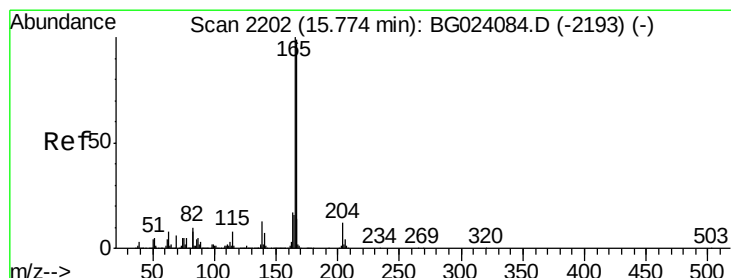
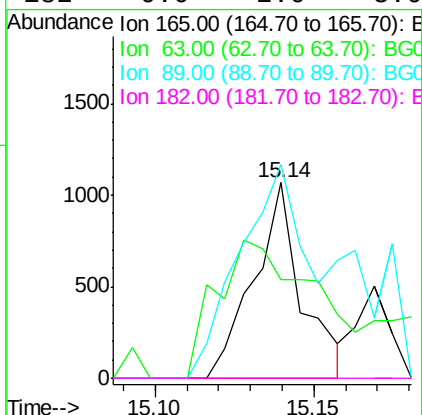
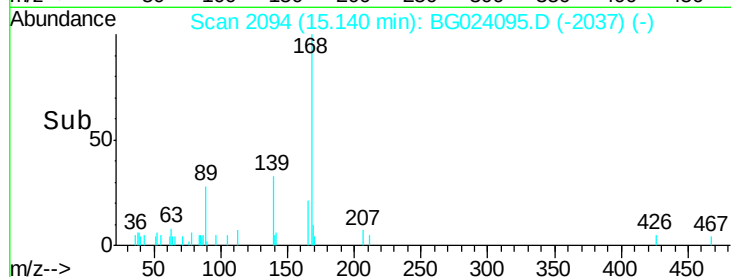
Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4



Tgt Ion:	165	Resp:	1114
Ion Ratio	Lower	Upper	
165	100		
63	50.7	45.8	68.6
89	109.3	68.6	102.8#
182	0.0	2.0	3.0#

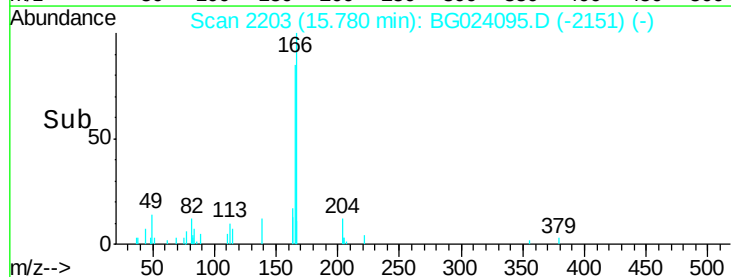
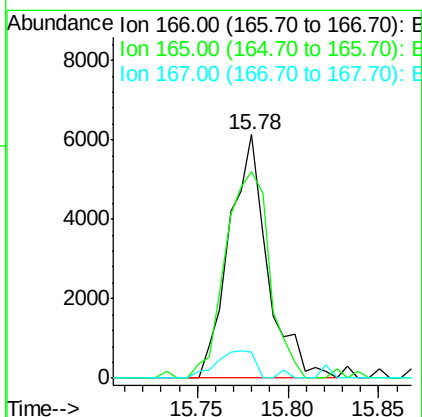
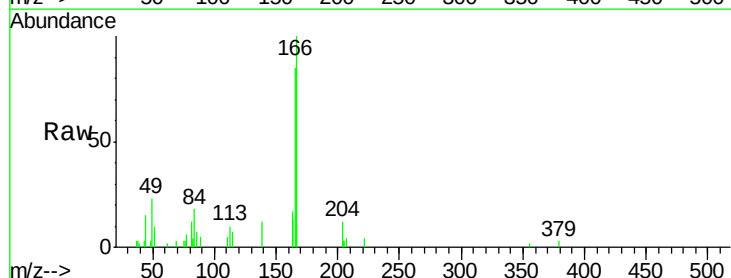
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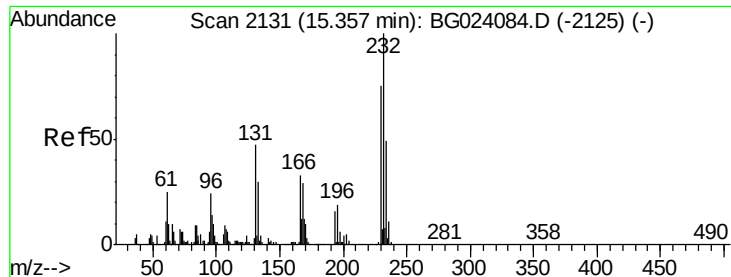
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#57
Fluorene
Concen: 0.87 ng
RT: 15.78 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

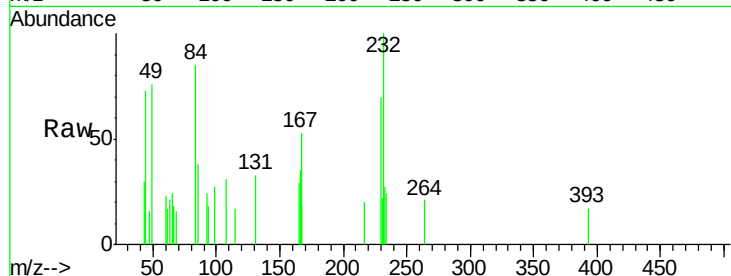
Tgt Ion:	166	Resp:	8975
Ion Ratio	Lower	Upper	
166	100		
165	84.8	81.0	121.6
167	10.8	12.0	18.0#





#58
 2,3,4,6-Tetrachlorophenol
 Concen: 0.69 ng
 RT: 15.39 min Scan# 2136
 Delta R.T. 0.03 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

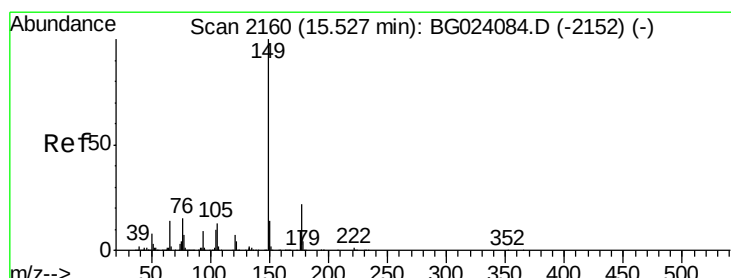
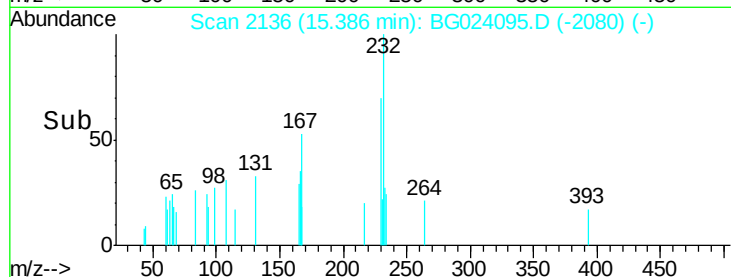
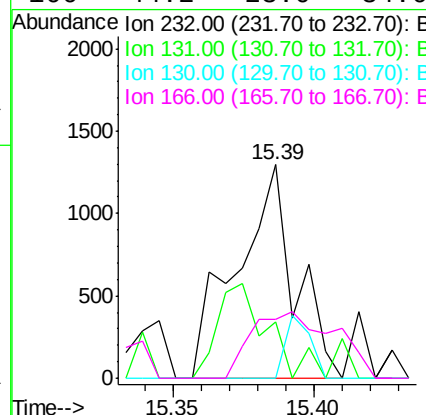
Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4



Tgt Ion	Ratio	Lower	Upper
232	100		
131	38.4	32.7	49.1
130	12.3	2.6	3.8#
166	44.2	23.0	34.6#

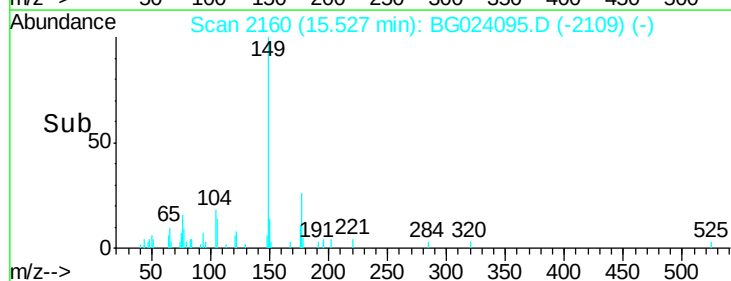
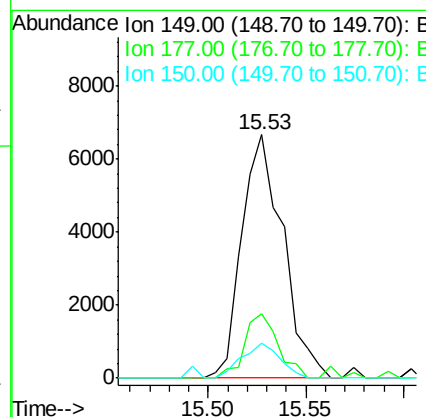
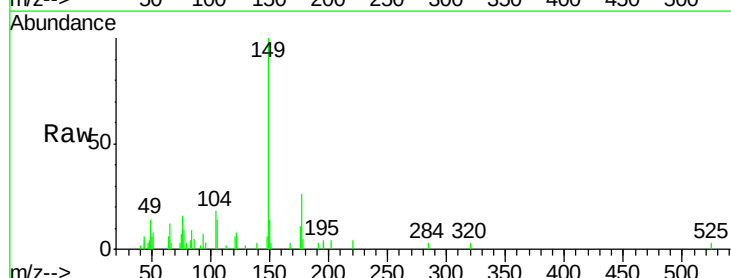
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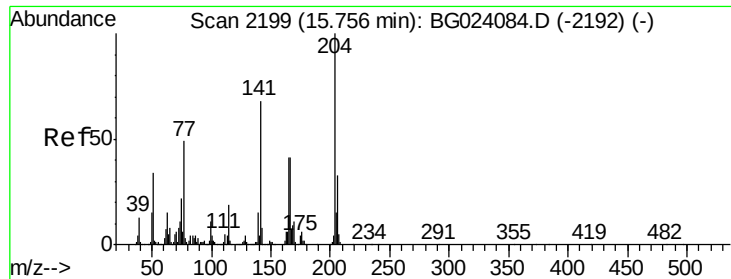
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#59
 Diethylphthalate
 Concen: 0.81 ng
 RT: 15.53 min Scan# 2160
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
149	100		
177	26.5	19.2	28.8
150	14.4	10.6	16.0





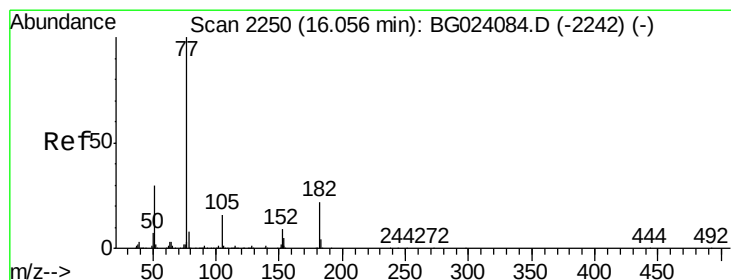
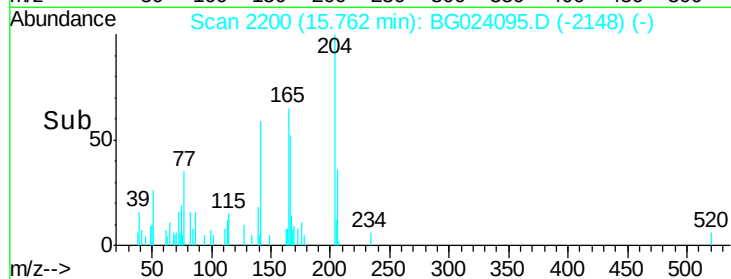
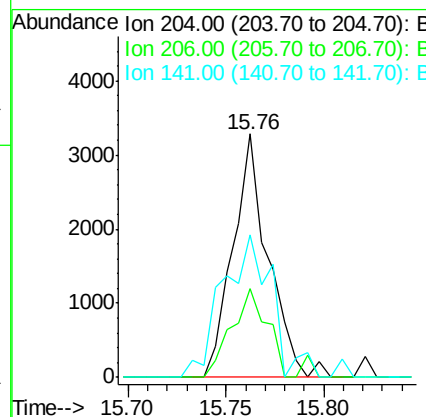
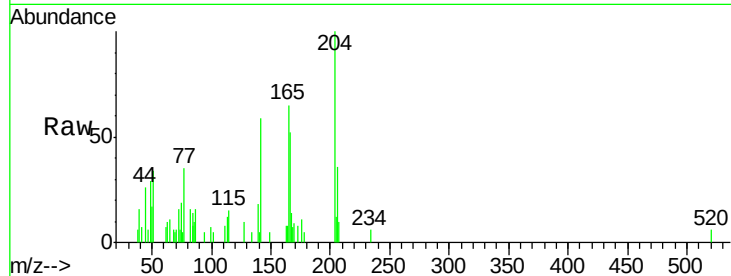
#60
 4-Chlorophenyl-phenylether
 Concen: 0.75 ng
 RT: 15.76 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
204	100		
206	36.2	28.5	42.7
141	58.8	51.4	77.0

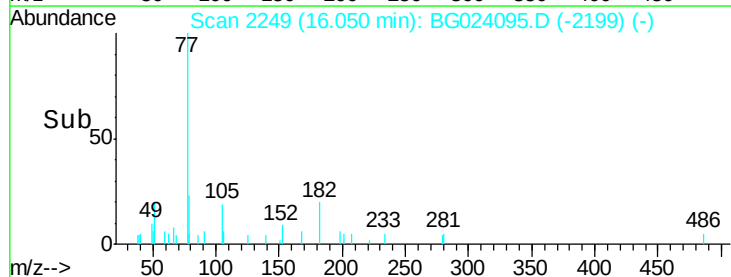
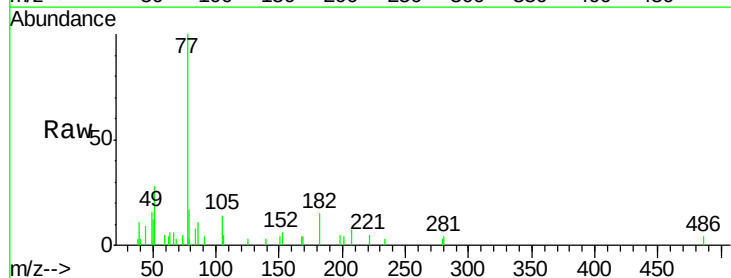
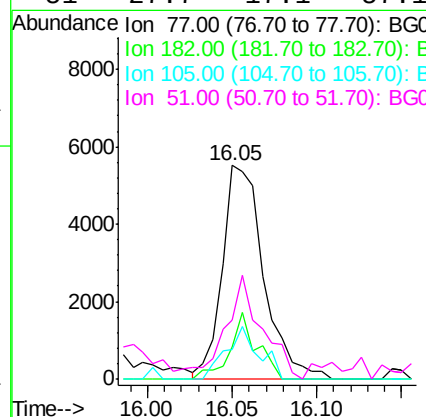
Manual Integrations
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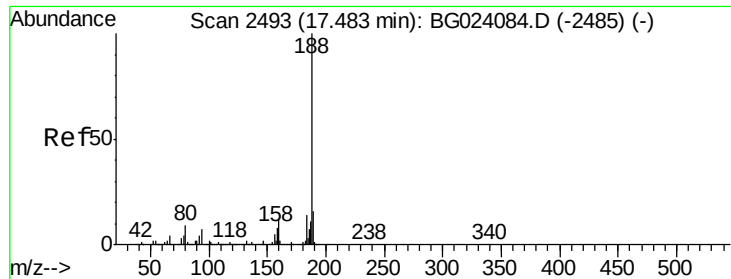
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#62
 Azobenzene
 Concen: 0.78 ng
 RT: 16.05 min Scan# 2249
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
77	100		
182	15.2	3.5	43.5
105	14.0	0.0	38.5
51	27.7	17.1	57.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.48 min Scan# 2493

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

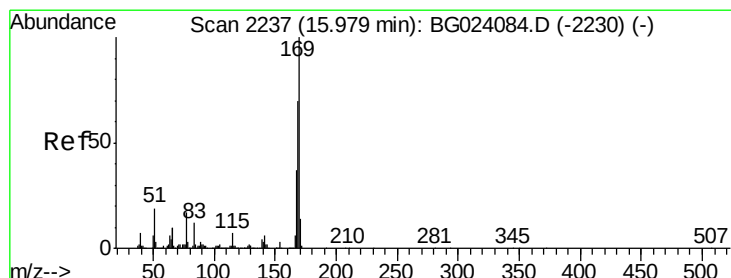
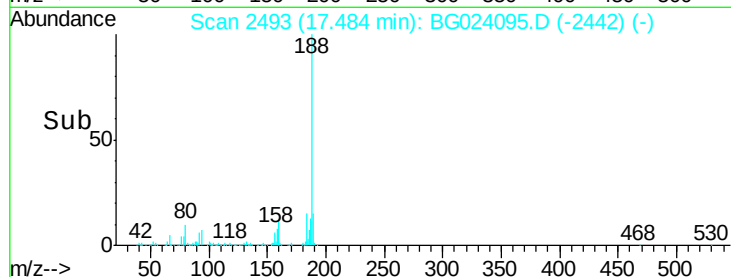
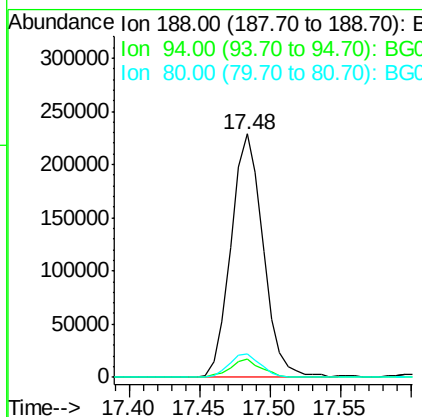
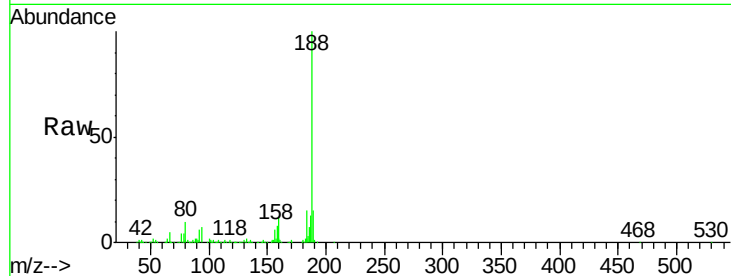
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	188	Resp:	364675
Ion Ratio	Lower	Upper	
188	100		
94	7.3	5.2	7.8
80	9.7	7.2	10.8

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#65

n-Nitrosodiphenylamine

Concen: 0.83 ng

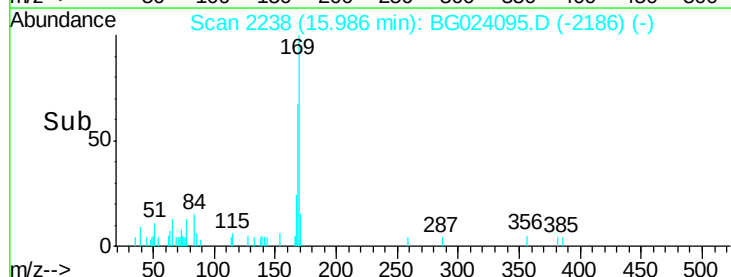
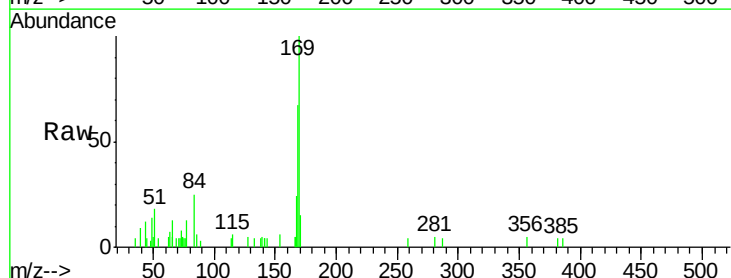
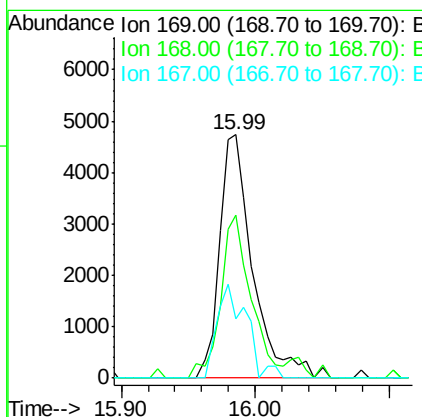
RT: 15.99 min Scan# 2238

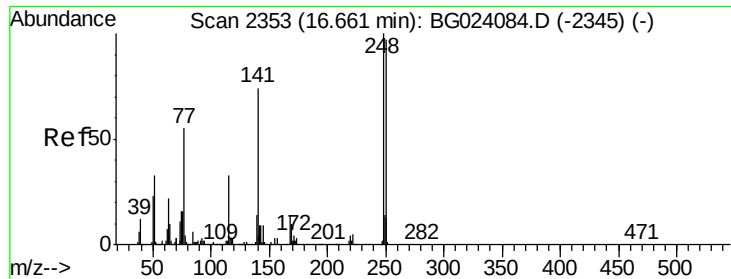
Delta R.T. 0.01 min

Lab File: BG024095.D

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Tgt Ion:	169	Resp:	8236
Ion Ratio	Lower	Upper	
169	100		
168	66.8	55.0	82.4
167	24.2	27.4	41.0#





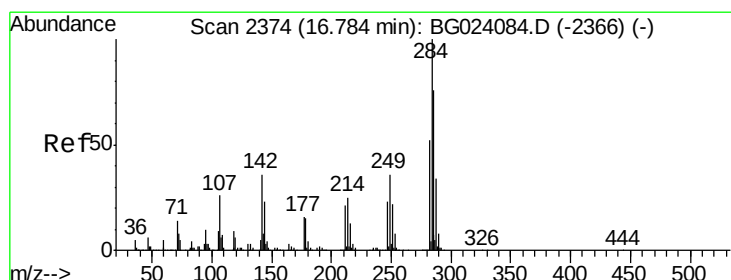
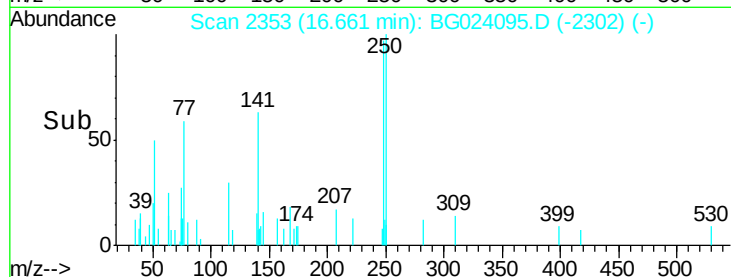
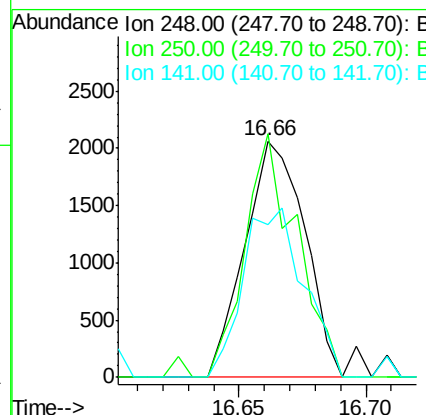
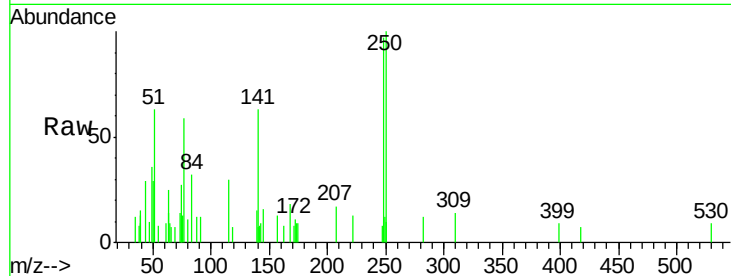
#66
4-Bromophenyl-phenylether
Concen: 0.80 ng
RT: 16.66 min Scan# 2353
Delta R.T. 0.00 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.0	77.8	116.8
141	64.7	65.7	98.5#

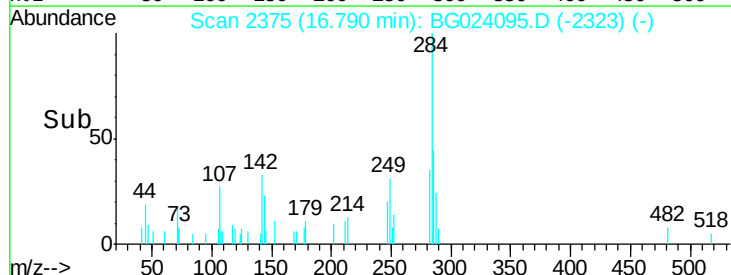
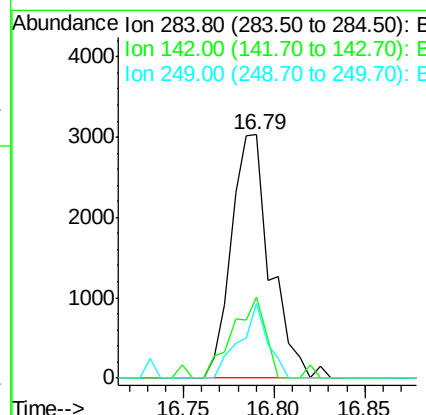
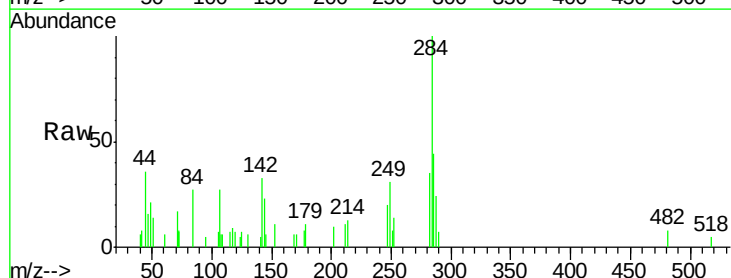
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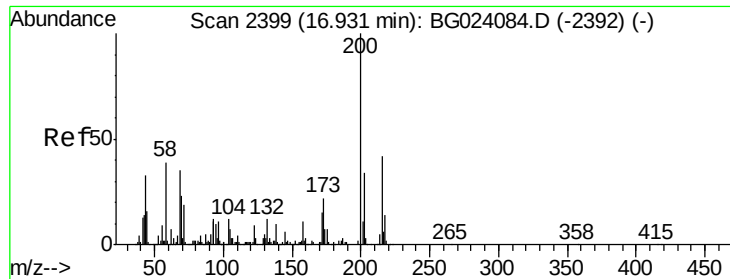
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#67
Hexachlorobenzene
Concen: 0.95 ng
RT: 16.79 min Scan# 2375
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.1	26.8	40.2
249	30.7	28.9	43.3





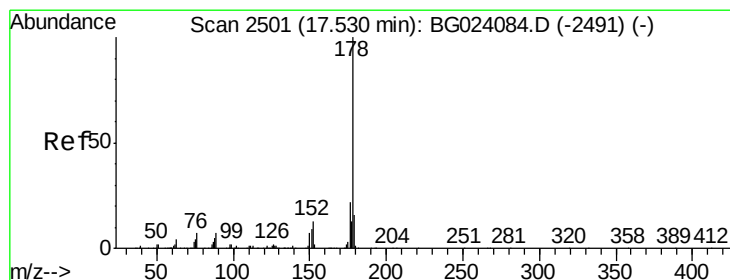
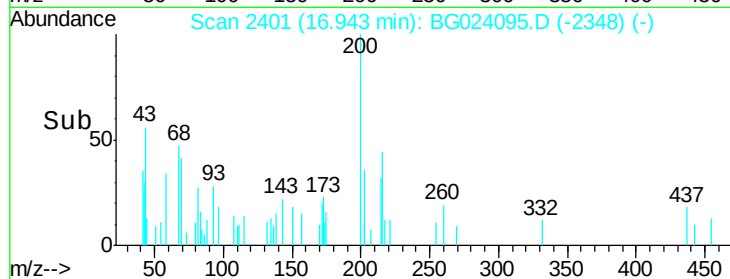
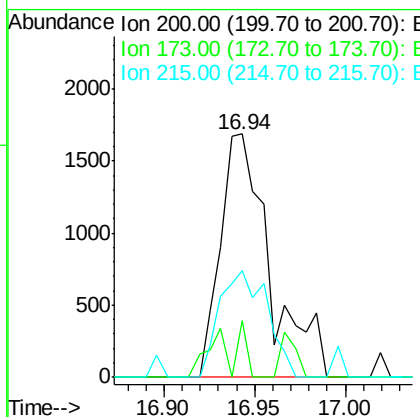
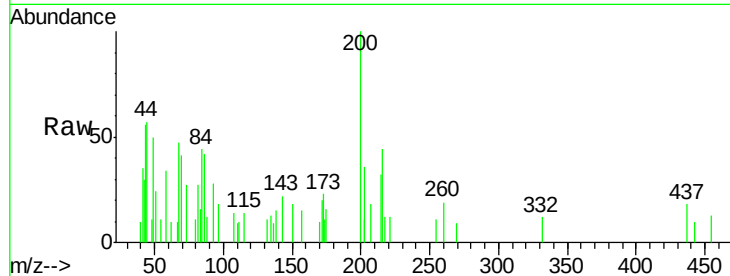
#68
 Atrazine
 Concen: 0.72 ng
 RT: 16.94 min Scan# 2401
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
200	100	3188		
173	23.5	1.6	41.6	
215	44.0	28.7	68.7	

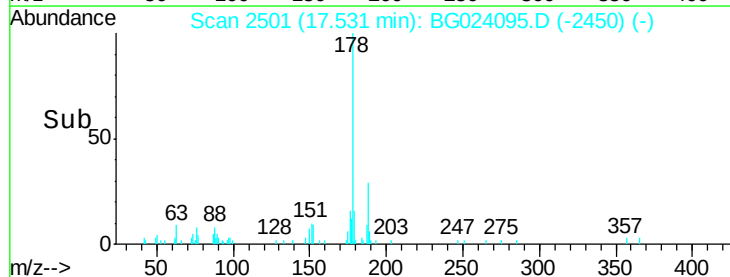
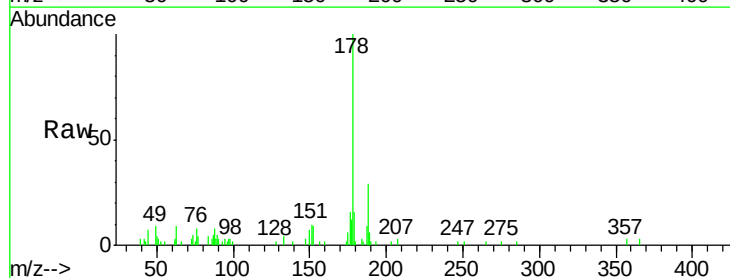
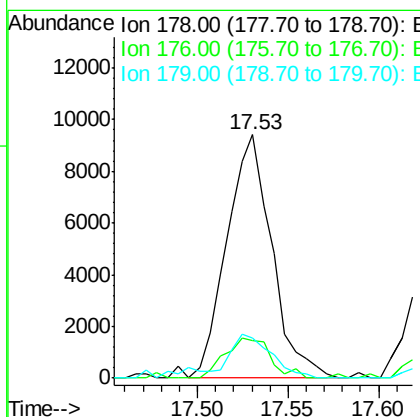
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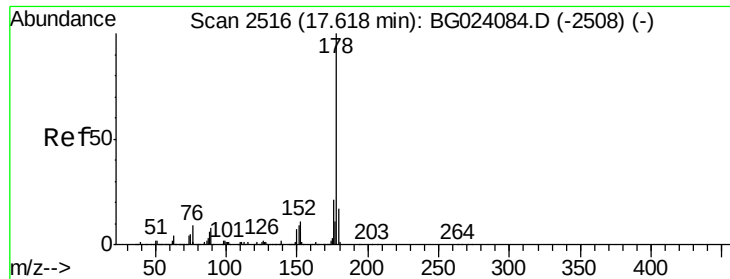
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#70
 Phenanthrene
 Concen: 0.87 ng m
 RT: 17.53 min Scan# 2501
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	16228		
176	15.7	16.8	25.2#	
179	16.4	14.3	21.5	





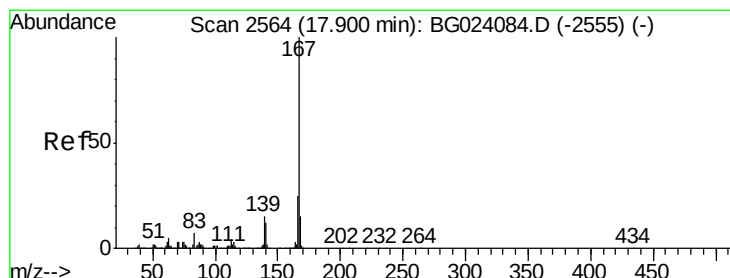
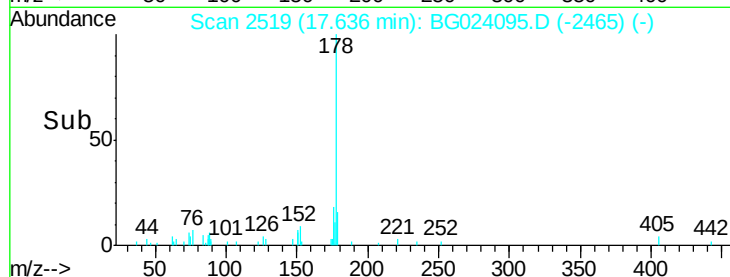
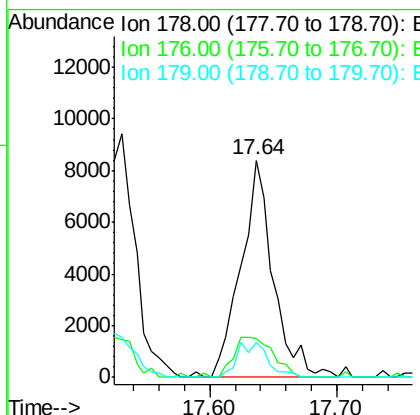
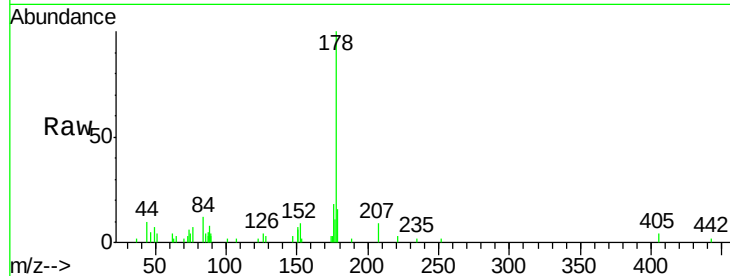
#71
 Anthracene
 Concen: 0.78 ng
 RT: 17.64 min Scan# 2519
 Delta R.T. 0.02 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	17.3	25.9
179	16.1	14.0	21.0

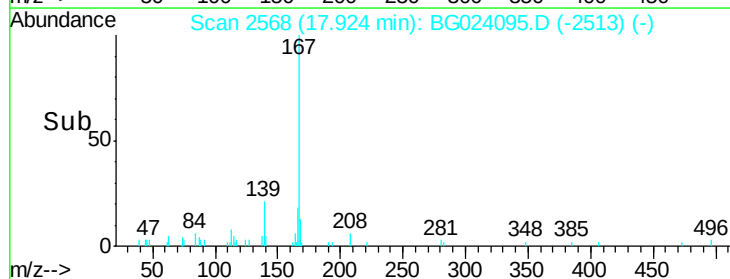
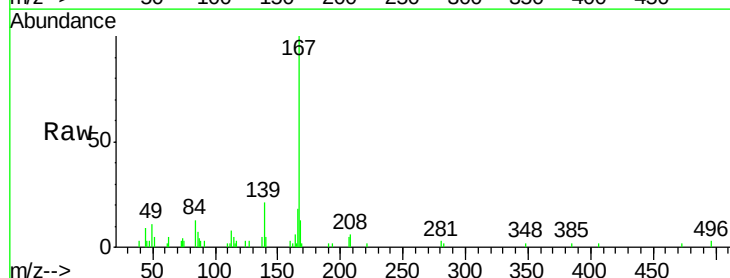
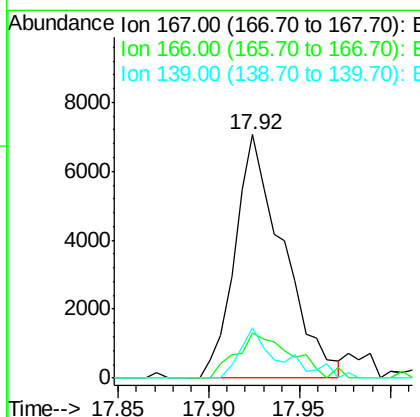
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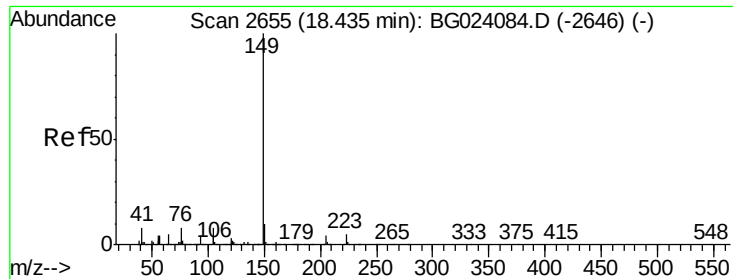
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#72
 Carbazole
 Concen: 0.74 ng
 RT: 17.92 min Scan# 2568
 Delta R.T. 0.02 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	18.5	20.7	31.1#
139	20.9	11.9	17.9#





#73

Di-n-butylphthalate

Concen: 0.75 ng

RT: 18.44 min Scan# 2655

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

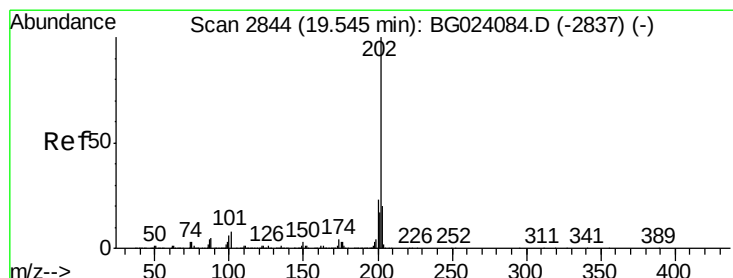
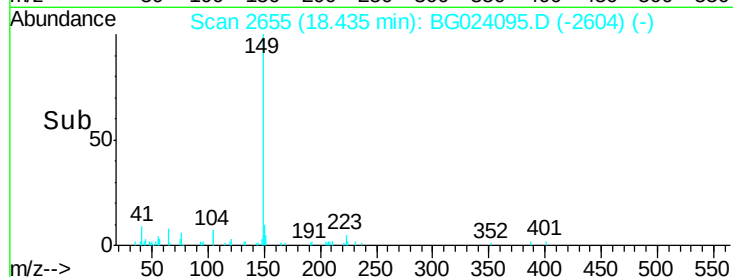
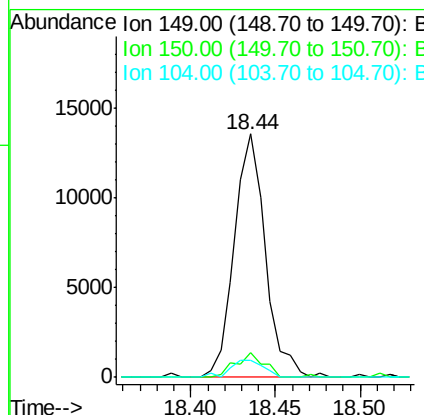
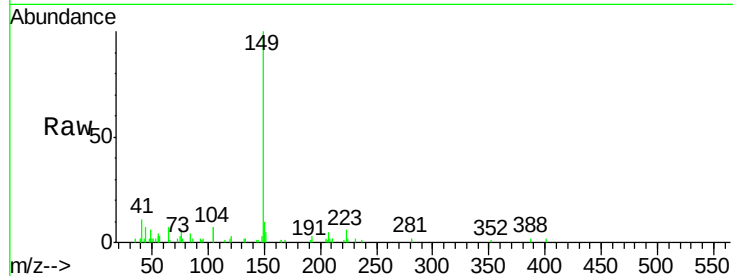
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	149	Resp:	17327
Ion Ratio	Lower	Upper	
149	100		
150	10.0	9.1	13.7
104	6.9	6.9	10.3

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#74

Fluoranthene

Concen: 0.82 ng

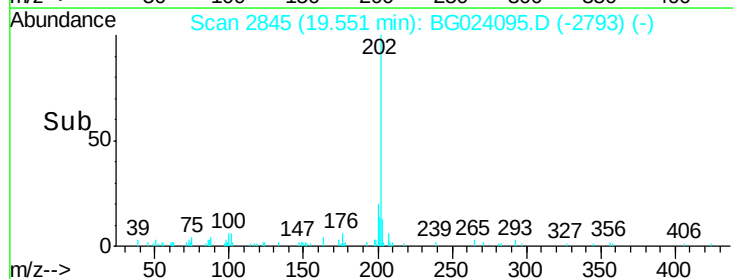
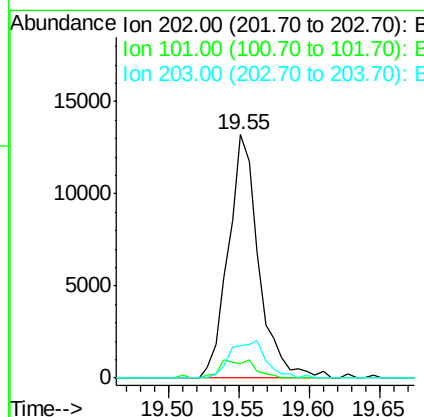
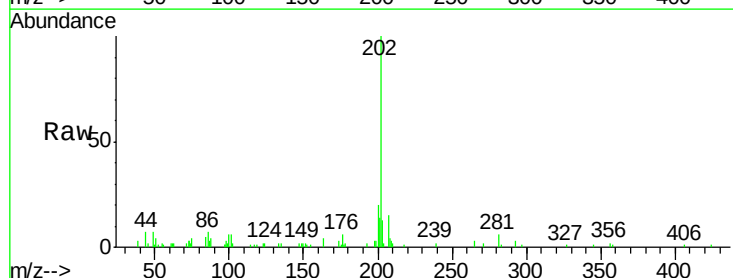
RT: 19.55 min Scan# 2845

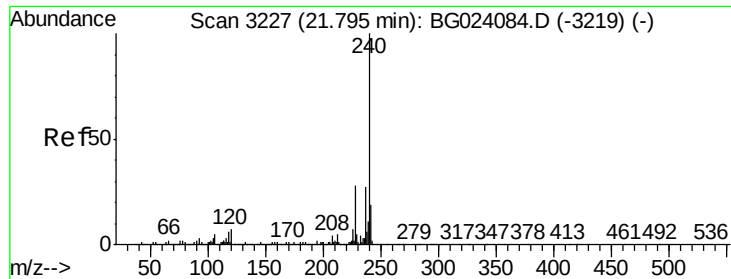
Delta R.T. 0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	202	Resp:	19824
Ion Ratio	Lower	Upper	
202	100		
101	5.9	0.0	27.4
203	13.2	1.7	41.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.80 min Scan# 3227

Delta R.T. 0.00 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

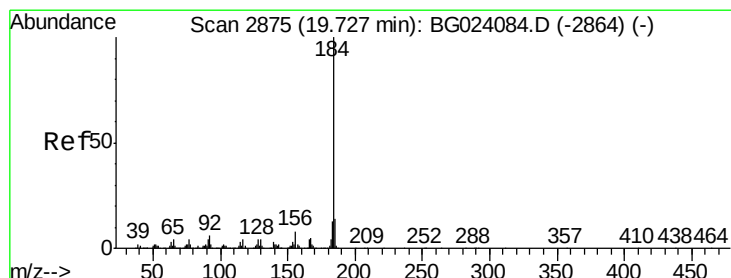
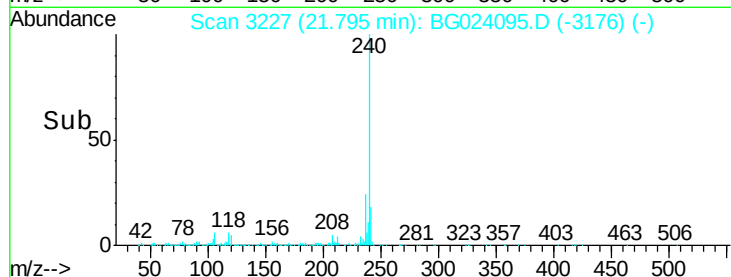
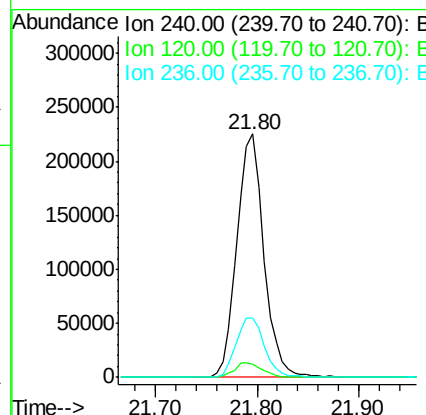
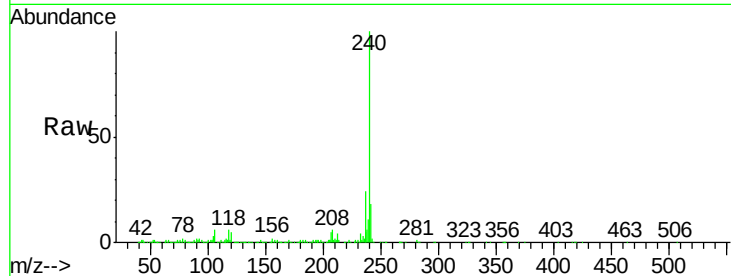
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	240	Resp:	416765
Ion Ratio		Lower	Upper
240	100		
120	5.3	4.1	6.1
236	24.4	21.1	31.7

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#76

Benzidine

Concen: 0.67 ng

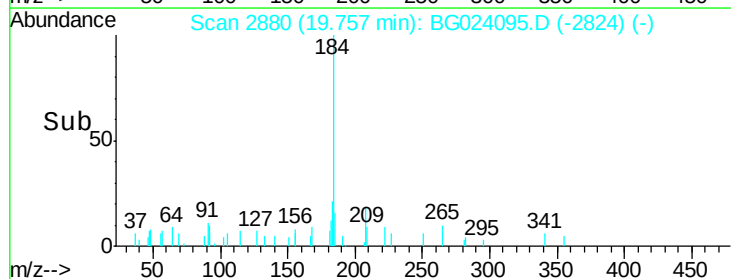
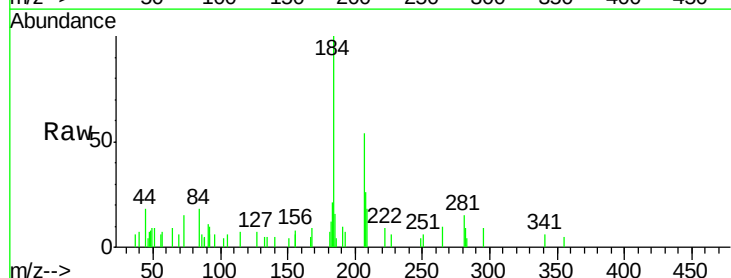
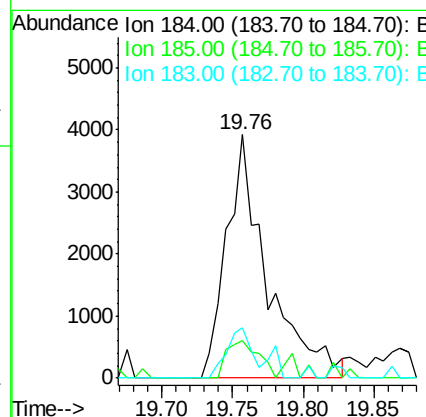
RT: 19.76 min Scan# 2880

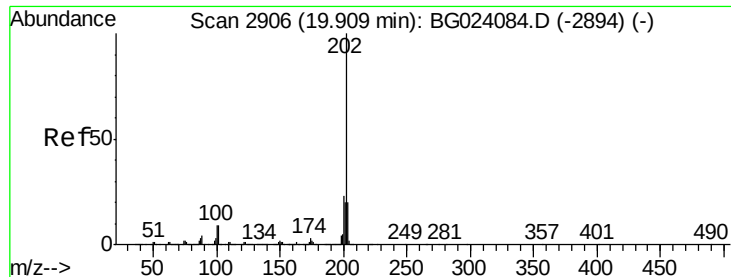
Delta R.T. 0.03 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	184	Resp:	7881
Ion Ratio		Lower	Upper
184	100		
185	15.6	12.6	19.0
183	20.6	10.7	16.1#





#77

Pyrene

Concen: 0.73 ng

RT: 19.92 min Scan# 2907

Delta R.T. 0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Instrument :

BNA_G

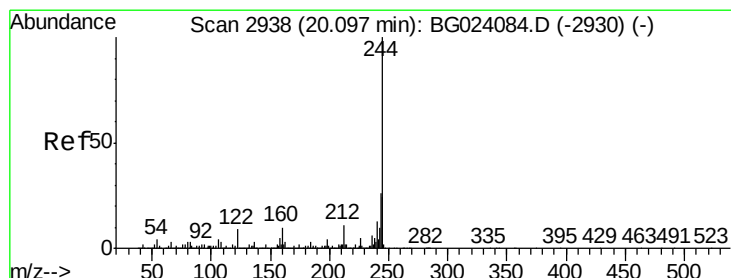
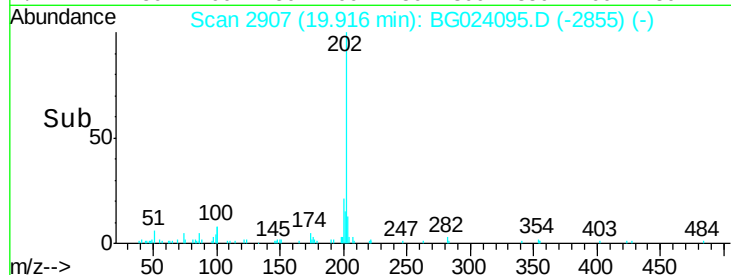
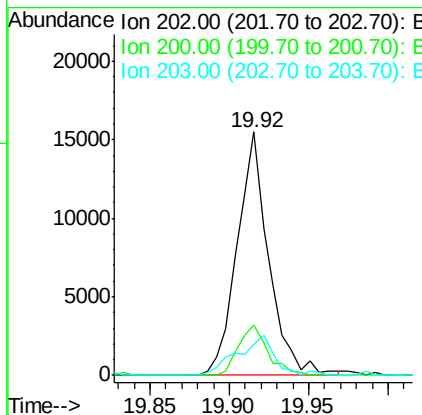
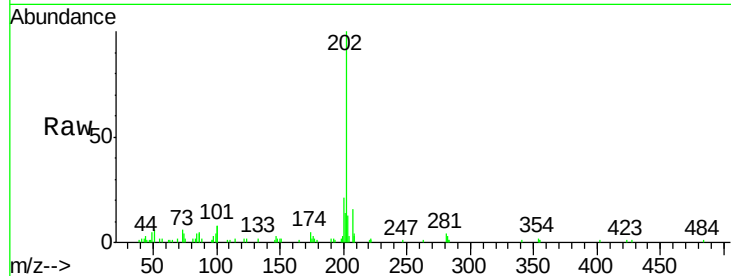
ClientSampleId :

LOD-SOIL2016-01-QT4

Tgt Ion:	202	Resp:	21360
Ion Ratio		Lower	Upper
202	100		
200	20.8	21.2	31.8#
203	13.0	16.8	25.2#

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#78

Terphenyl-d14

Concen: 69.84 ng

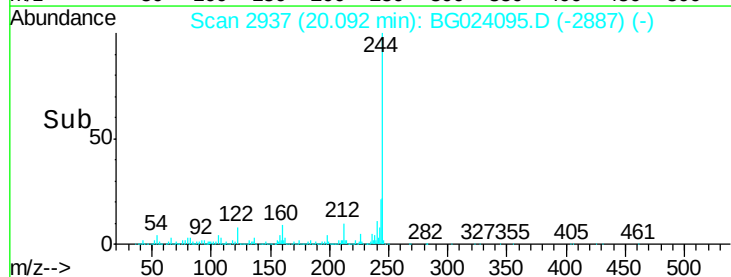
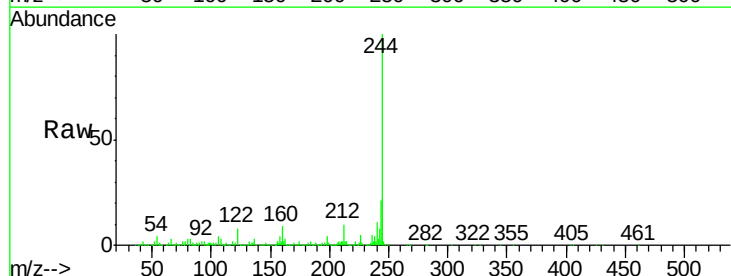
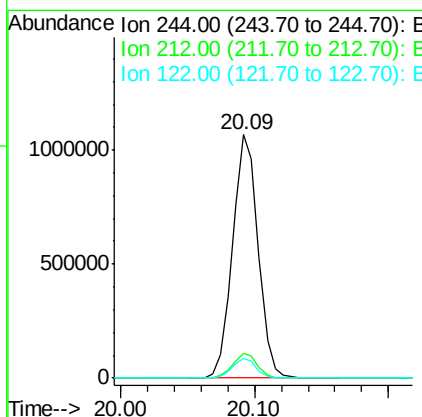
RT: 20.09 min Scan# 2937

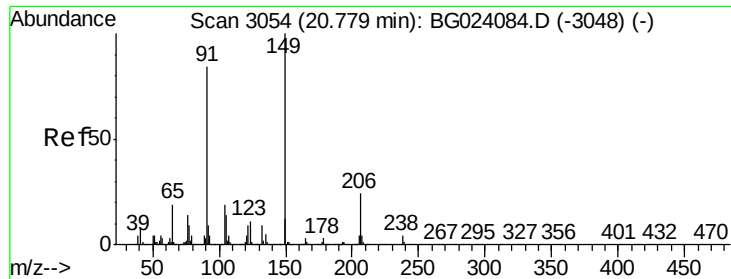
Delta R.T. -0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion:	244	Resp:	1421542
Ion Ratio		Lower	Upper
244	100		
212	10.1	10.8	16.2#
122	8.1	8.0	12.0





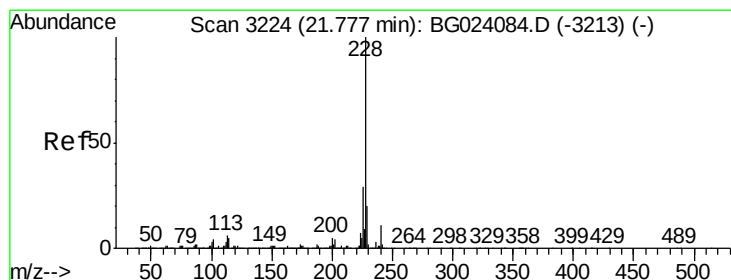
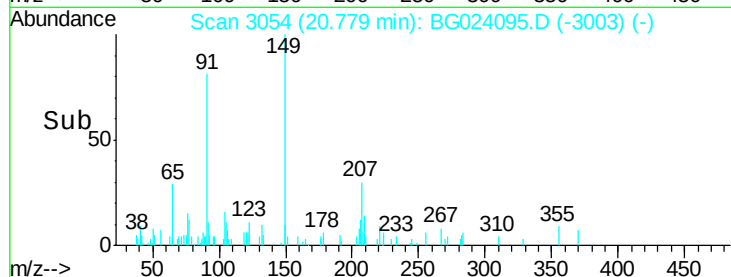
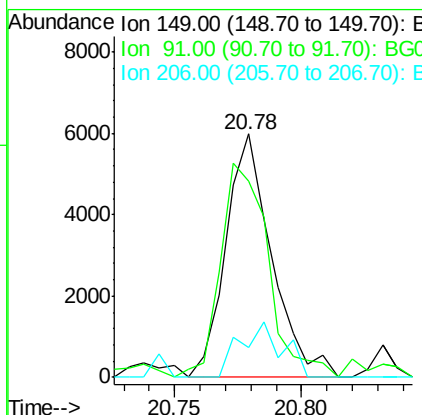
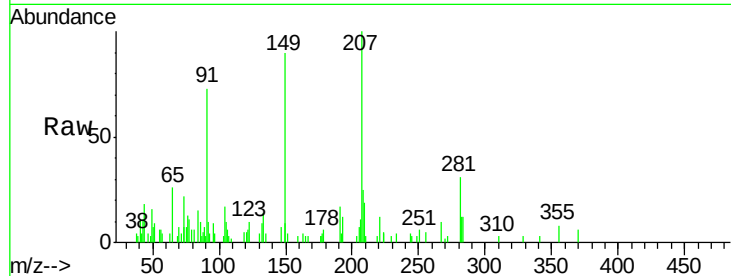
#79
Butylbenzylphthalate
Concen: 0.70 ng
RT: 20.78 min Scan# 3054
Delta R.T. 0.00 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
91	80.9	68.1	102.1
206	12.3	19.8	29.6

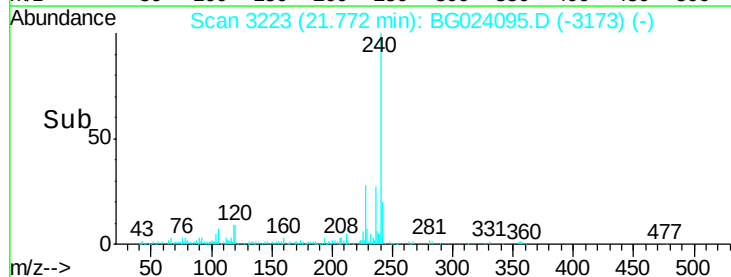
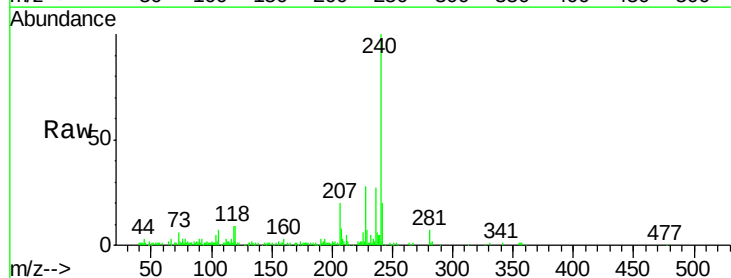
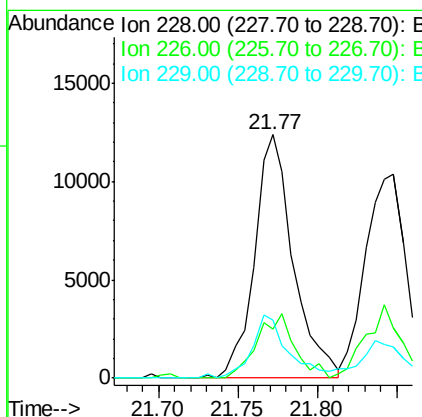
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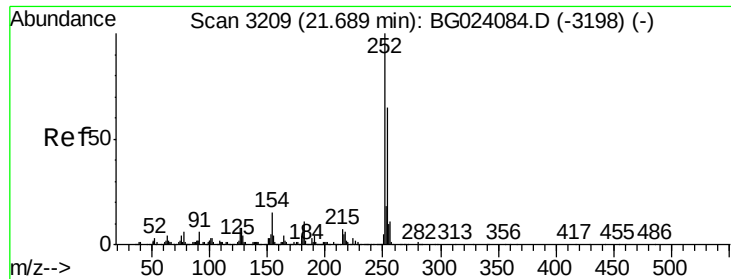
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#80
Benzo(a)anthracene
Concen: 0.89 ng
RT: 21.77 min Scan# 3223
Delta R.T. -0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	19.9	25.3	37.9
229	24.0	19.9	29.9





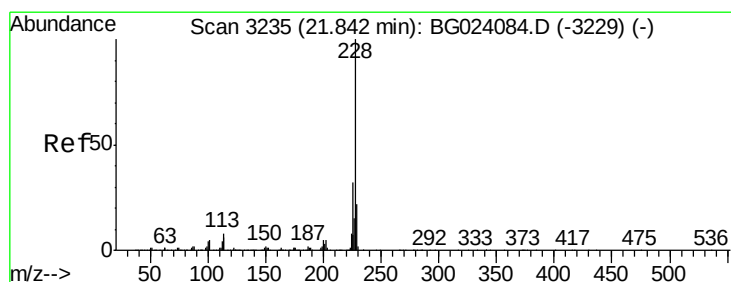
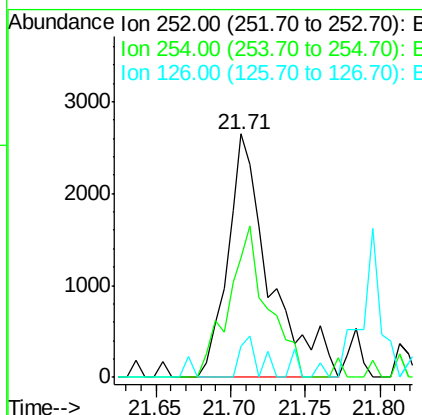
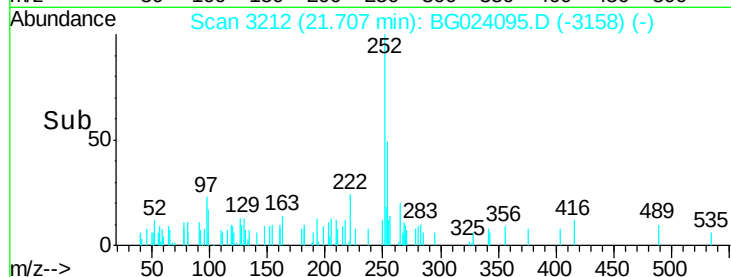
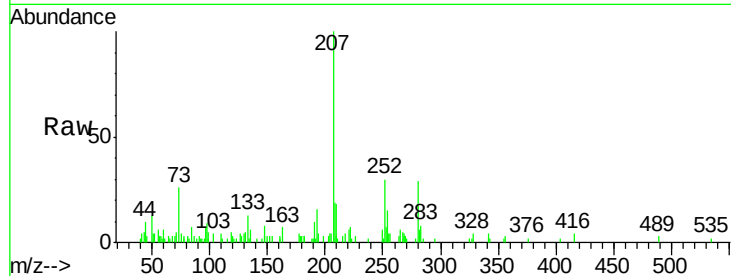
#81
 3,3'-Dichlorobenzidine
 Concen: 0.61 ng
 RT: 21.71 min Scan# 3212
 Delta R.T. 0.02 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	5156		
254	48.9	51.2	76.8#	
126	12.9	5.3	7.9#	

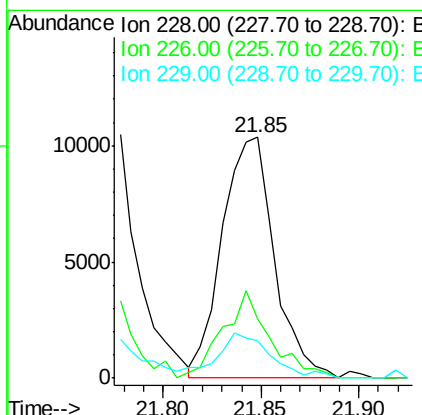
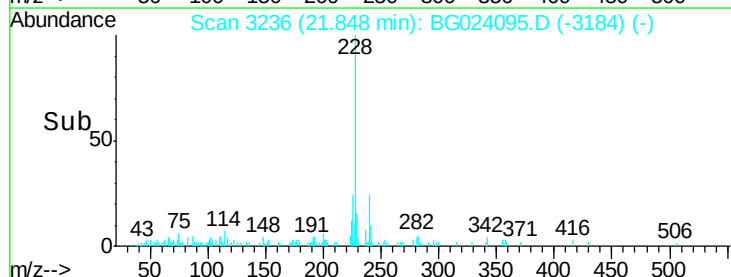
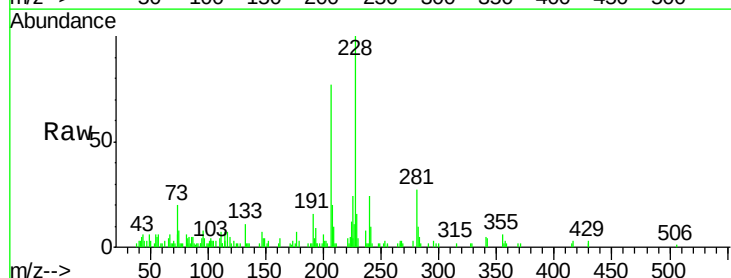
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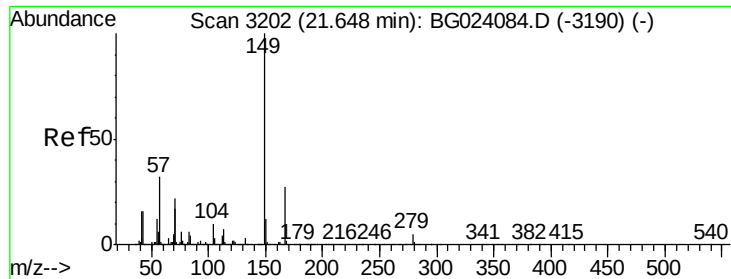
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#82
 Chrysene
 Concen: 0.86 ng
 RT: 21.85 min Scan# 3236
 Delta R.T. 0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	19160		
226	24.4	26.7	40.1#	
229	15.5	17.4	26.2#	





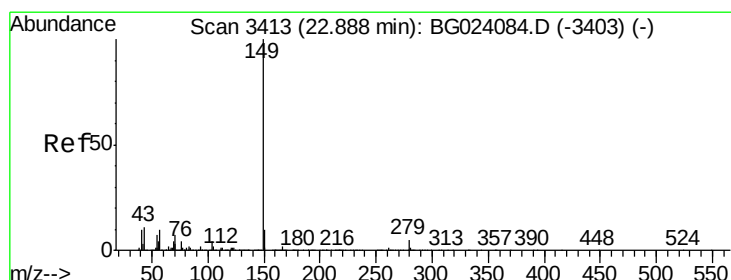
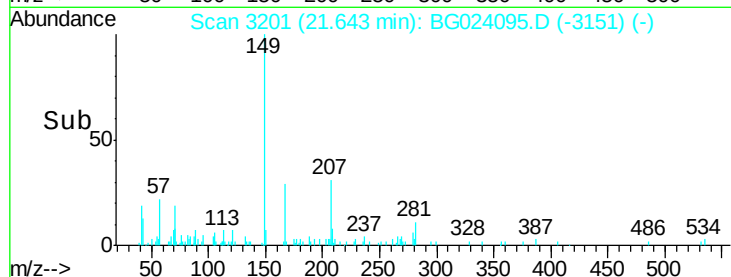
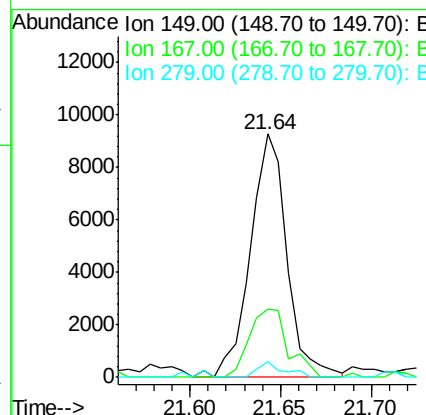
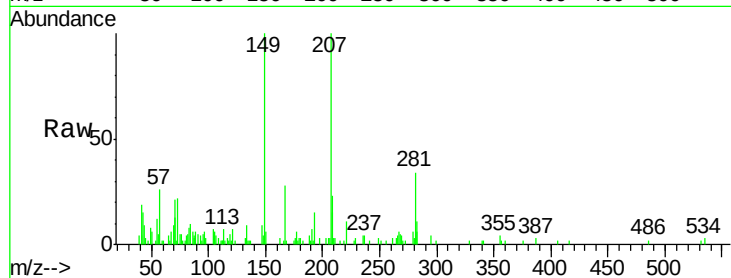
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 1.02 ng
 RT: 21.64 min Scan# 3201
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	13004		
167	27.9	24.0	36.0	
279	6.3	4.8	7.2	

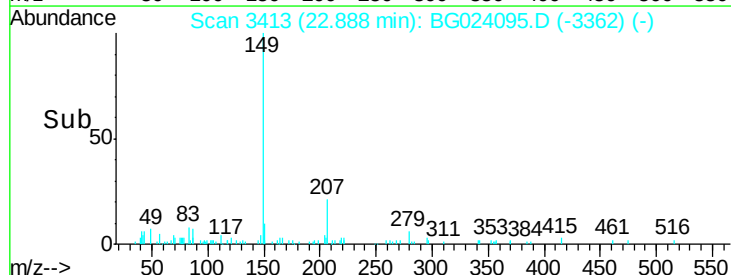
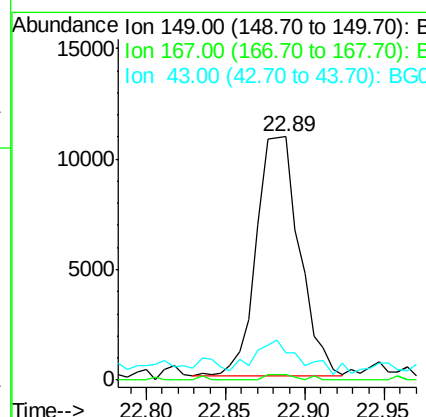
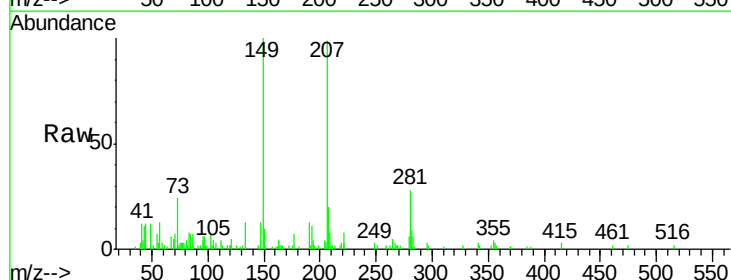
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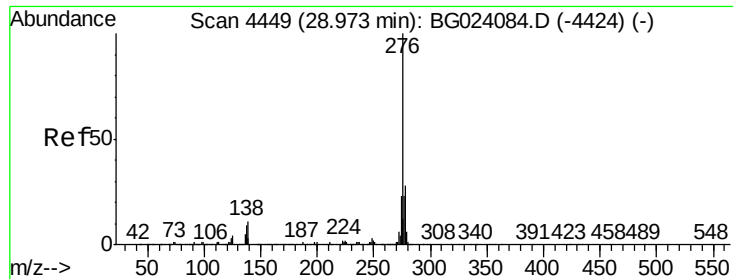
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#84
 Di-n-octyl phthalate
 Concen: 0.93 ng
 RT: 22.89 min Scan# 3413
 Delta R.T. 0.00 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	20447		
167	1.8	1.5	2.3	
43	14.4	8.8	13.2	





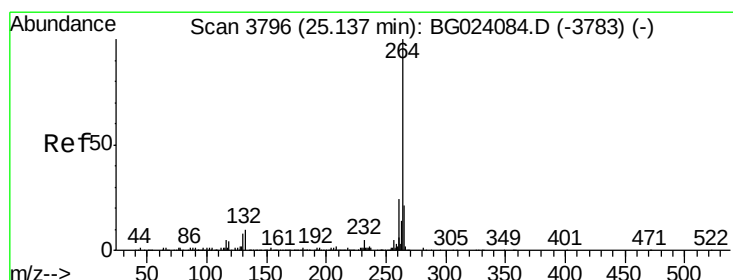
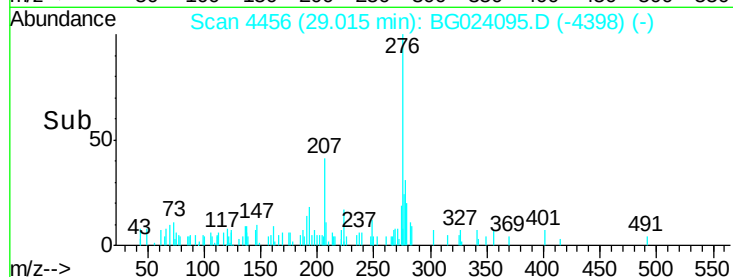
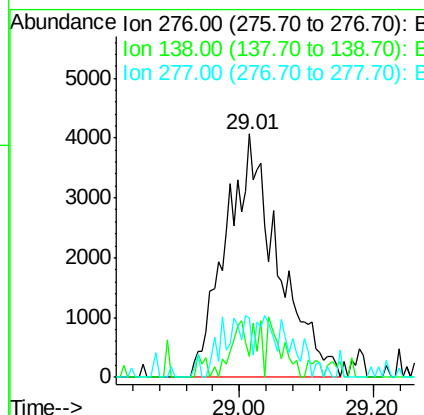
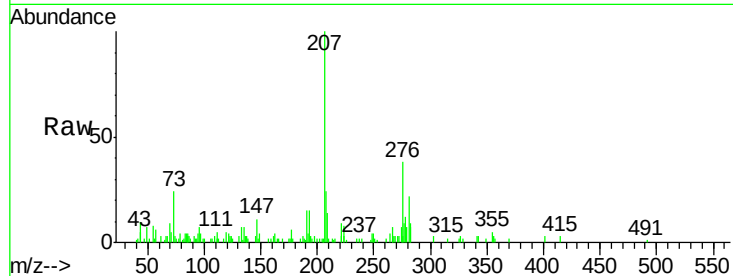
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 0.88 ng m
 RT: 29.01 min Scan# 4456
 Delta R.T. 0.04 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	7.0	0.0	0.0#
277	3.8	0.0	0.0#

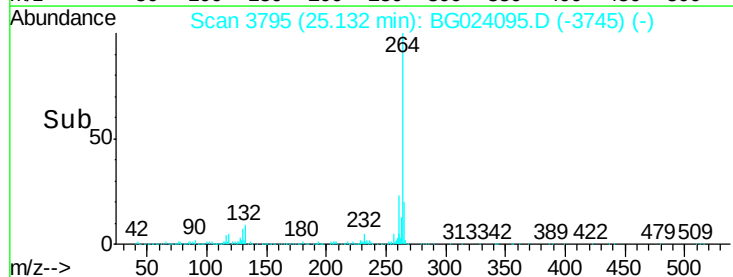
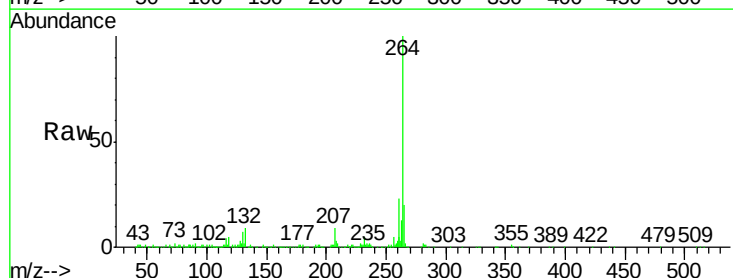
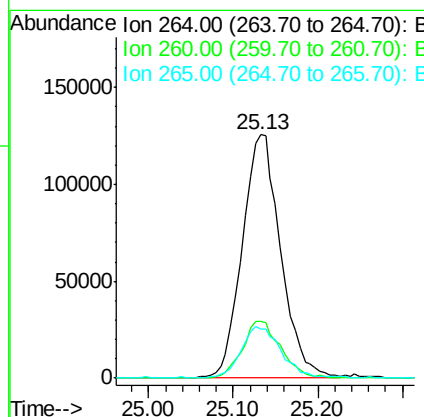
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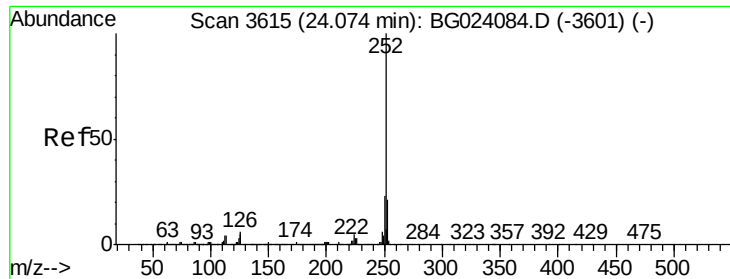
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.13 min Scan# 3795
 Delta R.T. -0.01 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.3	18.4	27.6
265	20.4	18.9	28.3





#87

Benzo(b)fluoranthene

Concen: 0.77 ng

RT: 24.07 min Scan# 3615

Delta R.T. 0.00 min

Lab File: BG024095.D

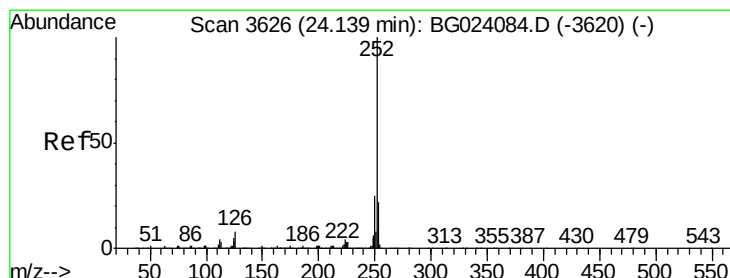
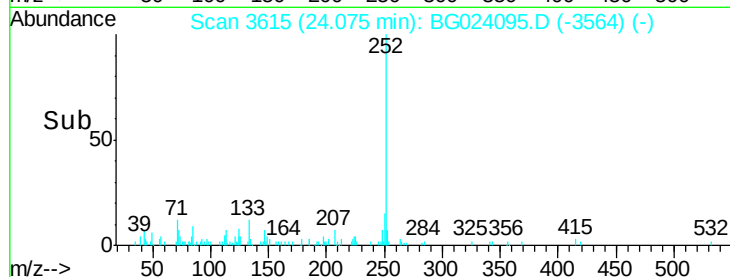
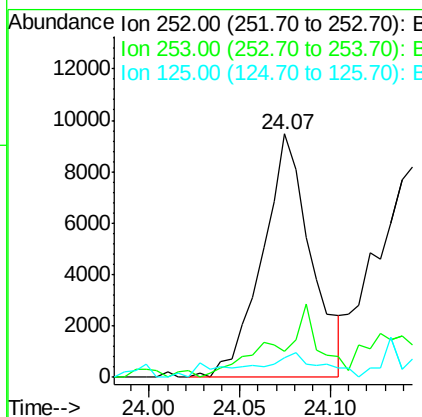
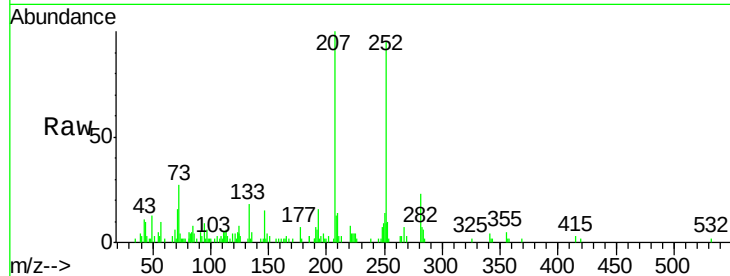
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	17718		
253	10.5	18.9	28.3#	
125	8.2	3.9	5.9#	

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#88

Benzo(k)fluoranthene

Concen: 0.94 ng

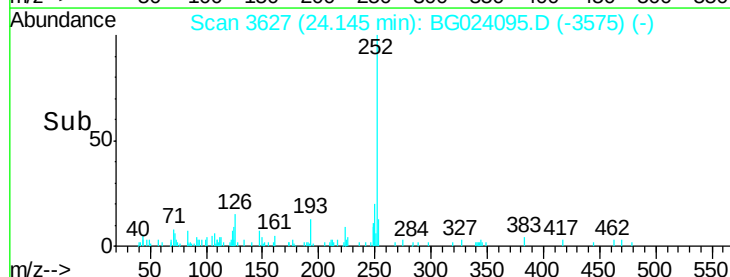
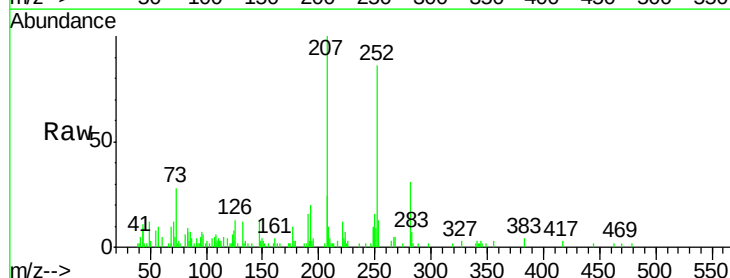
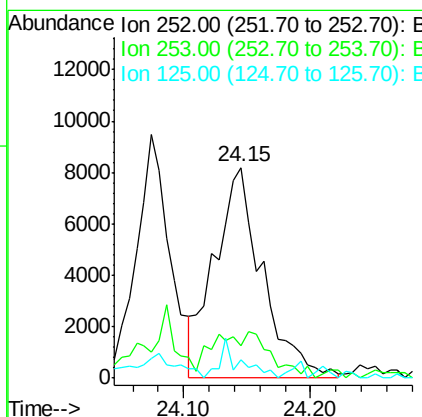
RT: 24.15 min Scan# 3627

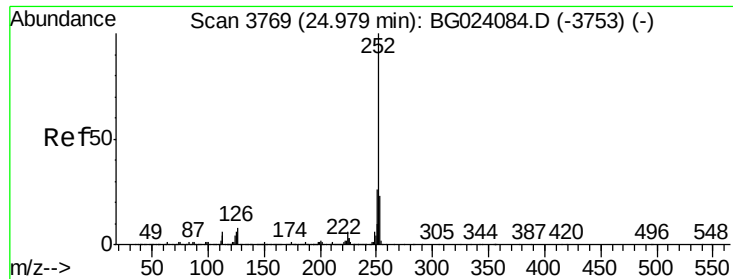
Delta R.T. 0.01 min

Lab File: BG024095.D

Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	21561		
253	15.4	18.8	28.2#	
125	8.8	3.2	4.8#	





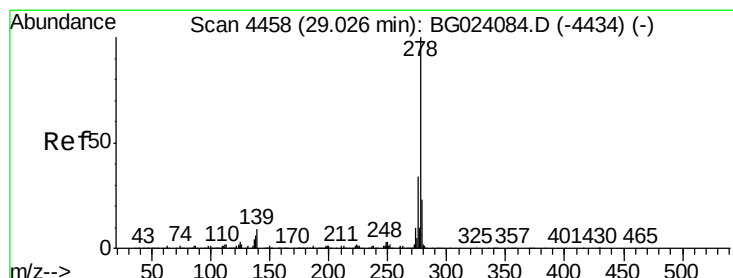
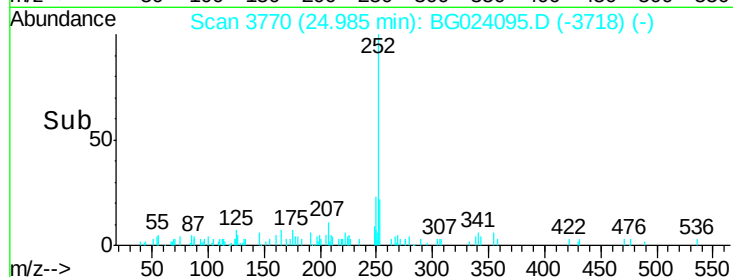
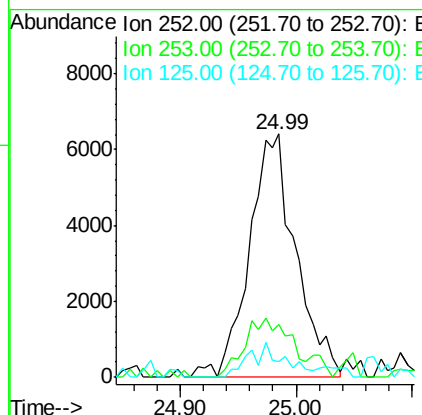
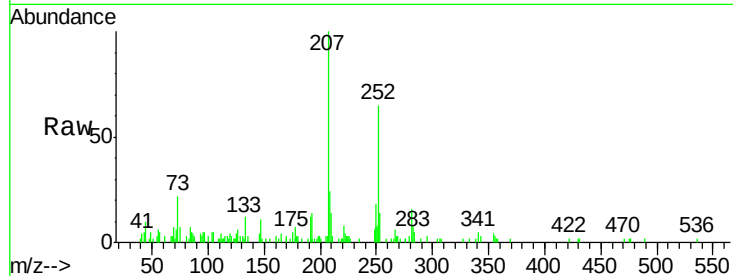
#89
Benzo(a)pyrene
Concen: 0.81 ng
RT: 24.99 min Scan# 3770
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	18018		
253	21.7	18.7	28.1	
125	6.7	3.9	5.9	

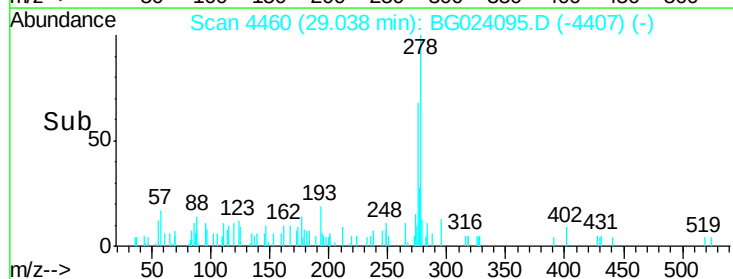
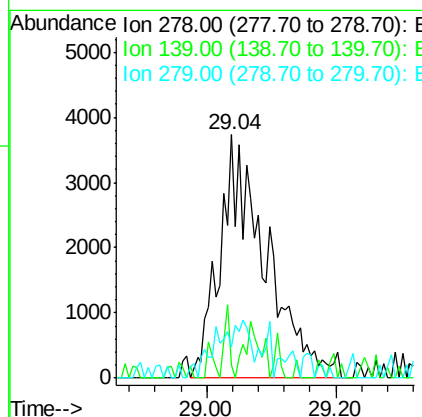
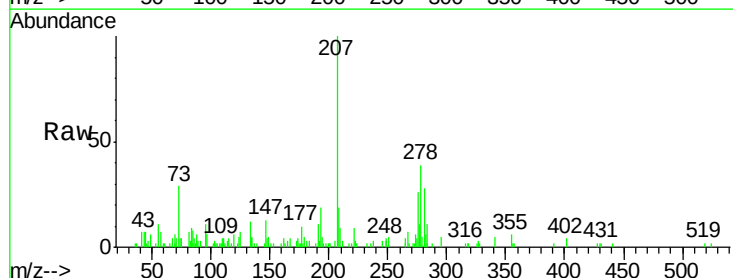
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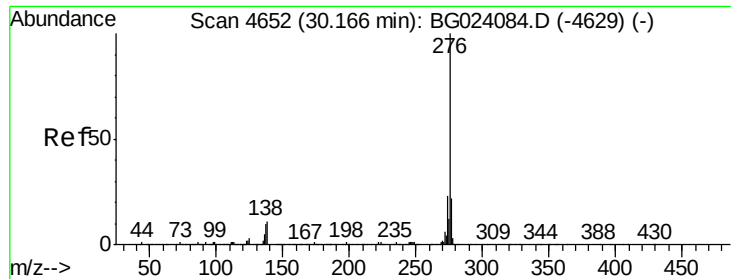
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#90
Dibenzo(a,h)anthracene
Concen: 0.81 ng m
RT: 29.04 min Scan# 4460
Delta R.T. 0.01 min
Lab File: BG024095.D
Acq: 23 Sep 2016 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	18176		
139	5.6	4.7	7.1	
279	13.0	18.3	27.5	





#91
 Benzo(g,h,i)perylene
 Concen: 0.80 ng m
 RT: 30.21 min Scan# 4660
 Delta R.T. 0.05 min
 Lab File: BG024095.D
 Acq: 23 Sep 2016 20:03

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.6	27.8
138	19.7	6.8	10.2

Manual Integrations
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