

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM011723\
 Data File : BM038471.D
 Acq On : 17 Jan 2023 19:21
 Operator : CG/JU
 Sample : N3980-02
 Misc : LOQ-SOIL 5ppm
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT3-2022

Quant Time: Jan 19 04:52:32 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM011623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 03:06:05 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.975	152	69112	20.000	ng	0.00
21) Naphthalene-d8	10.787	136	250537	20.000	ng	0.00
39) Acenaphthene-d10	14.610	164	159405	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	366609	20.000	ng	0.00
76) Chrysene-d12	21.527	240	403166	20.000	ng	0.00
86) Perylene-d12	23.950	264	512933	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	373091	82.346	ng	-0.01
7) Phenol-d6	7.140	99	460021	79.262	ng	0.00
23) Nitrobenzene-d5	9.151	82	394768	64.202	ng	0.00
42) 2,4,6-Tribromophenol	16.098	330	201018	74.596	ng	0.00
45) 2-Fluorobiphenyl	13.239	172	752282	58.855	ng	0.00
79) Terphenyl-d14	19.968	244	1410708	65.504	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.381	88	8239	3.979	ng	# 91
3) Pyridine	3.810	79	24205	4.041	ng	93
4) n-Nitrosodimethylamine	3.716	42	18479	5.214	ng	# 92
6) Aniline	7.304	93	33734	4.602	ng	98
8) 2-Chlorophenol	7.534	128	22215	4.952	ng	92
9) Benzaldehyde	7.116	77	18915	4.874	ng	92
10) Phenol	7.163	94	29711	4.912	ng	89
11) bis(2-Chloroethyl)ether	7.398	93	24049	4.907	ng	98
12) 1,3-Dichlorobenzene	7.863	146	24548	5.108	ng	94
13) 1,4-Dichlorobenzene	8.010	146	24284	5.023	ng	92
14) 1,2-Dichlorobenzene	8.328	146	24652	5.215	ng	98
15) Benzyl Alcohol	8.222	79	20913	4.499	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.504	45	35481	5.192	ng	98
17) 2-Methylphenol	8.422	107	17834	4.366	ng	93
18) Hexachloroethane	9.057	117	10413	5.258	ng	91
19) n-Nitroso-di-n-propyla...	8.787	70	20138	4.780	ng	97
20) 3+4-Methylphenols	8.751	107	22325	4.070	ng	93
22) Acetophenone	8.810	105	28496	3.848	ng	93
24) Nitrobenzene	9.192	77	33101	5.095	ng	99
25) Isophorone	9.716	82	50661	4.651	ng	98
26) 2-Nitrophenol	9.904	139	9411	4.126	ng	98
27) 2,4-Dimethylphenol	9.957	122	17479	4.500	ng	96
28) bis(2-Chloroethoxy)met...	10.198	93	28680	4.682	ng	93
29) 2,4-Dichlorophenol	10.439	162	17225	4.014	ng	99
30) 1,2,4-Trichlorobenzene	10.651	180	22139	4.462	ng	98
31) Naphthalene	10.839	128	61789	4.654	ng	96
32) Benzoic acid	10.104	122	1052	5.383	ng	87
33) 4-Chloroaniline	10.957	127	23811	4.086	ng	96
34) Hexachlorobutadiene	11.110	225	15596	4.482	ng	98
35) Caprolactam	11.745	113	3165	2.610	ng	96
36) 4-Chloro-3-methylphenol	12.075	107	20283	4.336	ng	86
37) 2-Methylnaphthalene	12.439	142	39219	4.040	ng	98
38) 1-Methylnaphthalene	12.439	142	39219	4.303	ng	96
40) 1,2,4,5-Tetrachloroben...	12.804	216	20499	3.436	ng	96
41) Hexachlorocyclopentadiene	12.780	237	14086	4.152	ng	96
43) 2,4,6-Trichlorophenol	13.051	196	15862	4.206	ng	88

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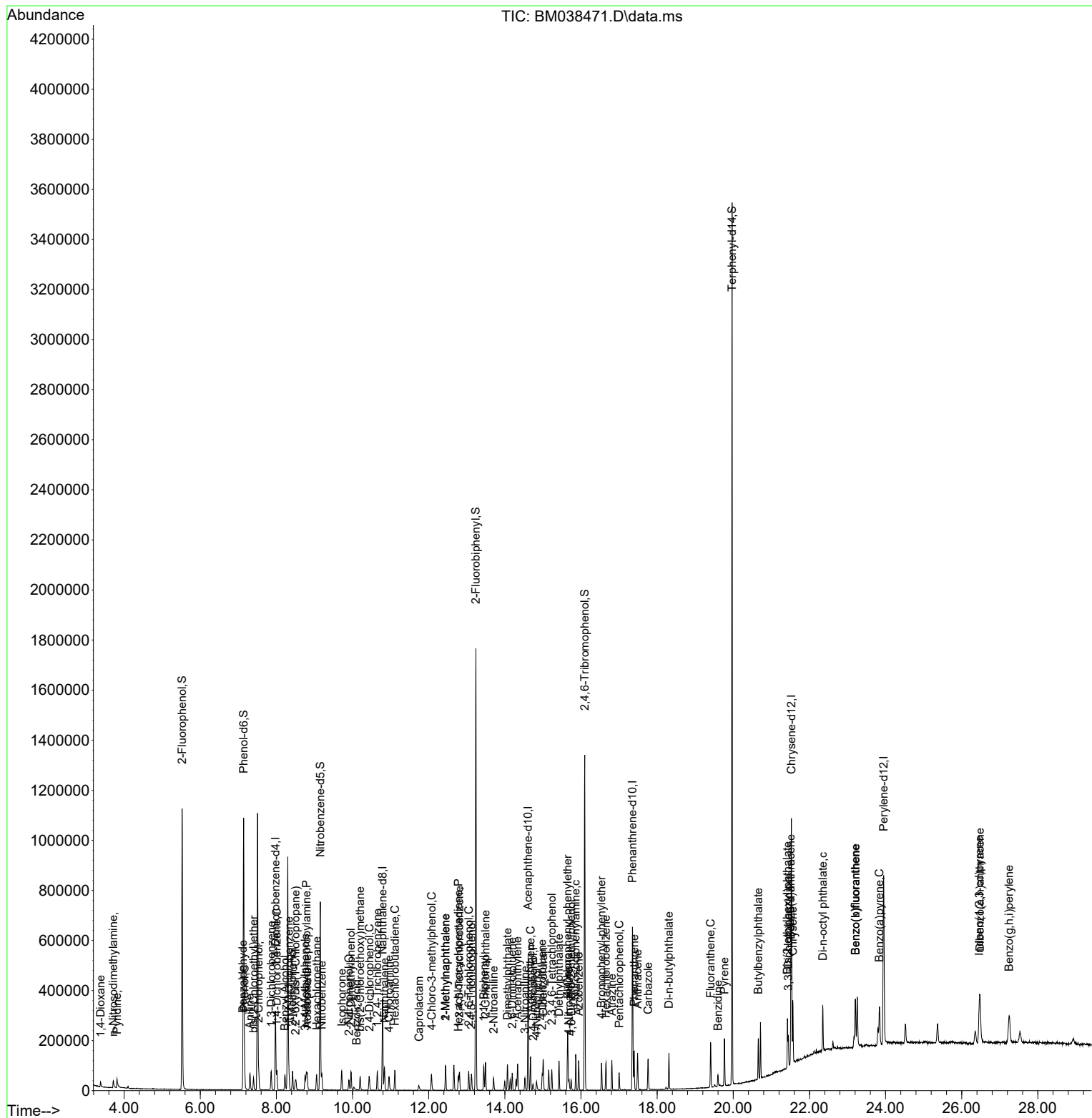
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.122	196	17050	3.834	ng	94
46) 1,1'-Biphenyl	13.445	154	45006	3.639	ng	100
47) 2-Chloronaphthalene	13.492	162	44463	4.568	ng	96
48) 2-Nitroaniline	13.704	65	14276	5.780	ng	94
49) Acenaphthylene	14.333	152	65010	4.236	ng	99
50) Dimethylphthalate	14.069	163	55563	4.301	ng	100
51) 2,6-Dinitrotoluene	14.192	165	10278	3.911	ng	89
52) Acenaphthene	14.674	154	40408	4.333	ng	97
53) 3-Nitroaniline	14.527	138	9715	5.823	ng	96
54) 2,4-Dinitrophenol	14.745	184	5137	7.699	ng	94
55) Dibenzofuran	15.010	168	68570	4.318	ng	99
56) 4-Nitrophenol	14.833	139	7229	6.812	ng	# 86
57) 2,4-Dinitrotoluene	14.980	165	13264	3.631	ng	# 95
58) Fluorene	15.657	166	52899	3.987	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.233	232	14794	3.752	ng	97
60) Diethylphthalate	15.421	149	56186	4.240	ng	99
61) 4-Chlorophenyl-phenylether	15.645	204	29422	4.040	ng	97
62) 4-Nitroaniline	15.680	138	8959	5.666	ng	88
63) Azobenzene	15.939	77	63705	4.369	ng	96
65) 4,6-Dinitro-2-methylph...	15.745	198	8024	3.225	ng	97
66) n-Nitrosodiphenylamine	15.863	169	44282	4.117	ng	97
67) 4-Bromophenyl-phenylether	16.539	248	17102	4.033	ng	94
68) Hexachlorobenzene	16.657	284	20726	4.365	ng	94
69) Atrazine	16.810	200	19837	5.215	ng	99
70) Pentachlorophenol	17.004	266	11246	3.244	ng	94
71) Phenanthrene	17.398	178	86641	4.272	ng	96
72) Anthracene	17.486	178	84478	4.053	ng	99
73) Carbazole	17.763	167	74473	4.086	ng	98
74) Di-n-butylphthalate	18.310	149	88614	4.093	ng	99
75) Fluoranthene	19.404	202	103162	4.046	ng	96
77) Benzidine	19.598	184	31241	3.537	ng	99
78) Pyrene	19.768	202	108823	4.056	ng	98
80) Butylbenzylphthalate	20.656	149	41689	4.251	ng	90
81) Benzo(a)anthracene	21.509	228	128854	4.444	ng	98
82) 3,3'-Dichlorobenzidine	21.445	252	33965	3.638	ng	95
83) Chrysene	21.562	228	123979	4.400	ng	99
84) Bis(2-ethylhexyl)phtha...	21.421	149	59872	4.247	ng	# 96
85) Di-n-octyl phthalate	22.350	149	109368	4.409	ng	96
87) Indeno(1,2,3-cd)pyrene	26.462	276	158877	4.185	ng	97
88) Benzo(b)fluoranthene	23.209	252	140242	4.409	ng	99
89) Benzo(k)fluoranthene	23.209	252	140242	4.264	ng	99
90) Benzo(a)pyrene	23.839	252	123788	3.966	ng	99
91) Dibenzo(a,h)anthracene	26.480	278	137952	4.331	ng	# 97
92) Benzo(g,h,i)perylene	27.244	276	141480	4.477	ng	98

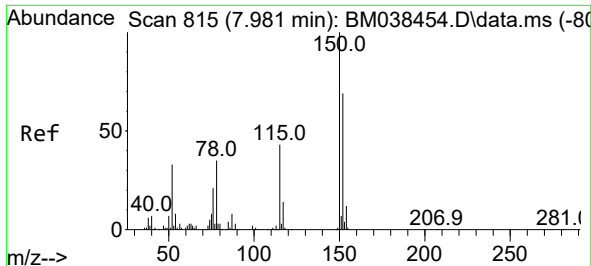
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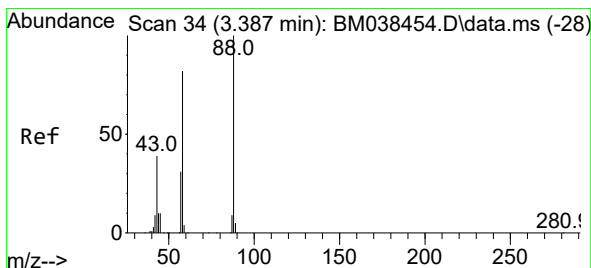
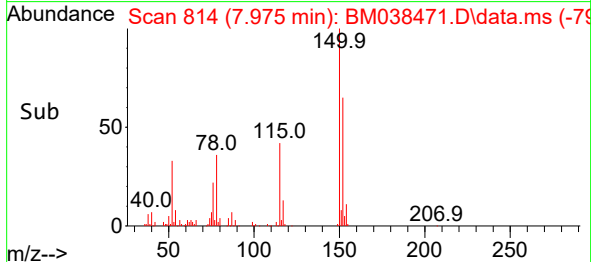
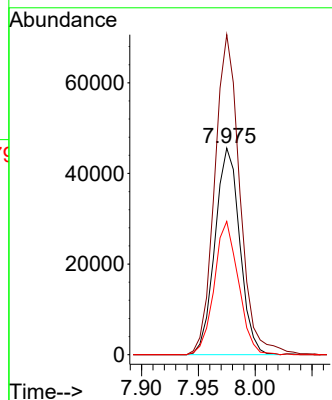
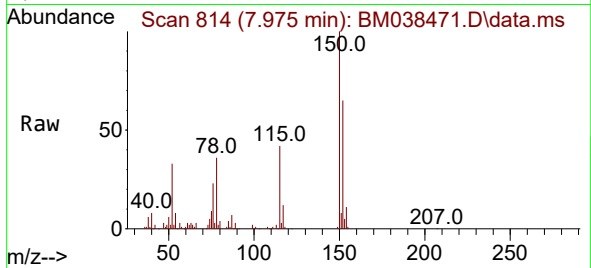




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.975 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

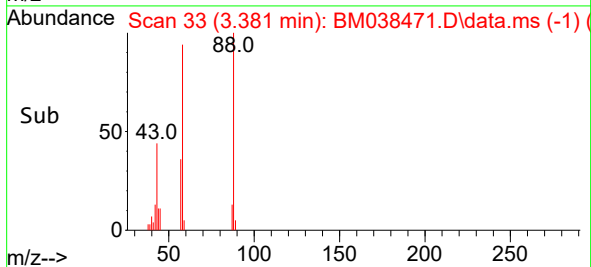
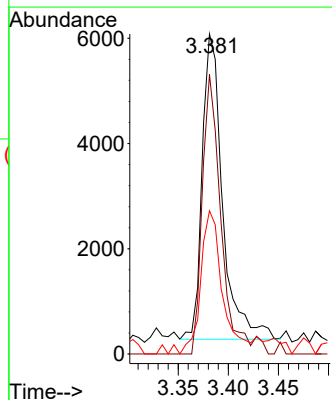
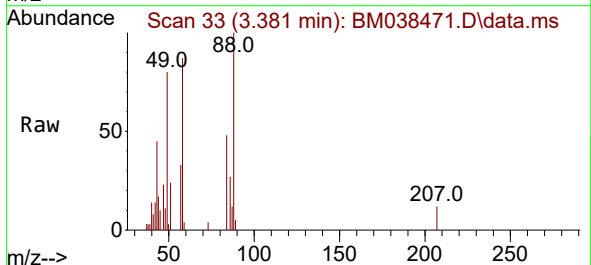
Instrument :
BNA_M
ClientSampleId :
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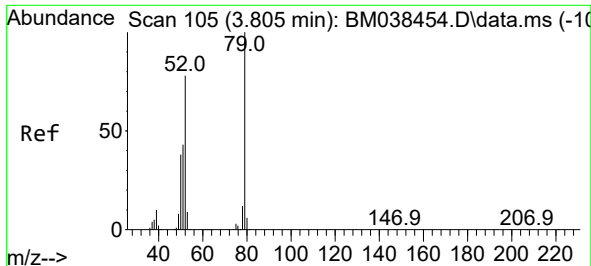
Tgt Ion:152 Resp: 69112
Ion Ratio Lower Upper
152 100
150 154.9 116.0 174.0
115 64.6 49.4 74.2



#2
1,4-Dioxane
Concen: 3.979 ng
RT: 3.381 min Scan# 33
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 88 Resp: 8239
Ion Ratio Lower Upper
88 100
58 84.9 64.3 96.5
43 50.3 32.3 48.5

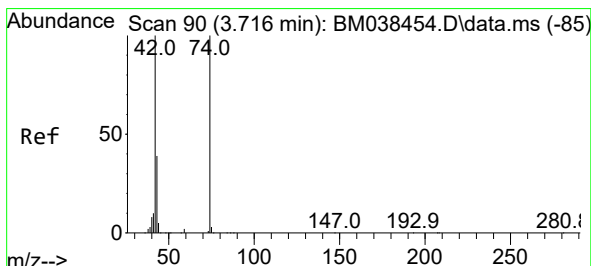
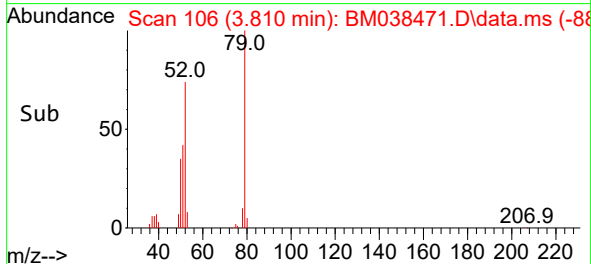
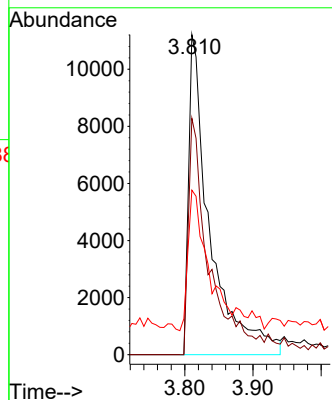
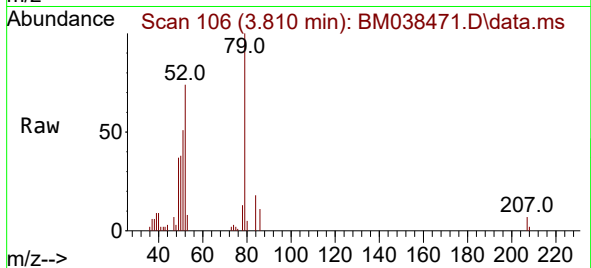




#3
Pyridine
Concen: 4.041 ng
RT: 3.810 min Scan# 105
Delta R.T. 0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

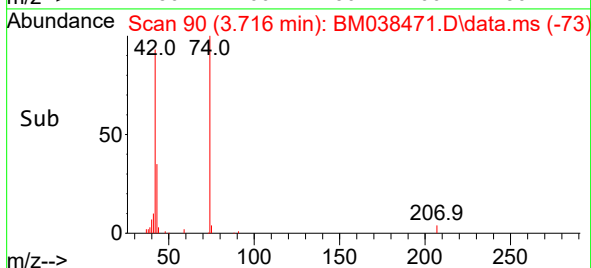
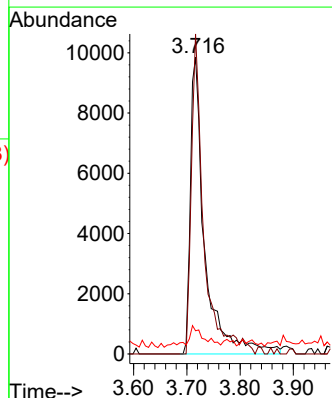
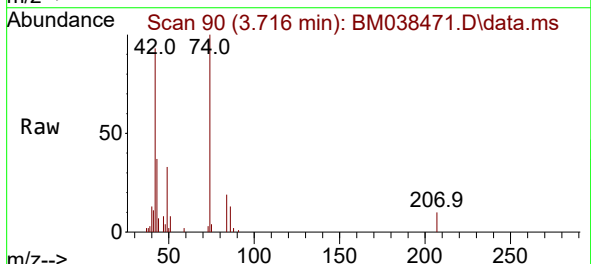
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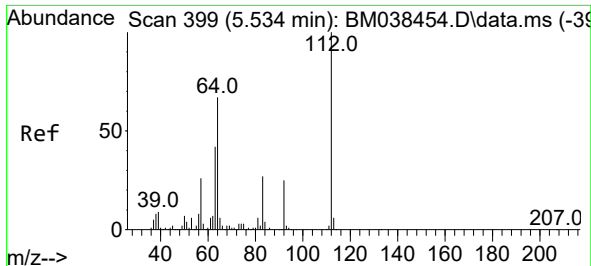
Tgt Ion: 79 Resp: 24205
Ion Ratio Lower Upper
79 100
52 73.9 62.2 93.2
51 51.4 34.8 52.2



#4
n-Nitrosodimethylamine
Concen: 5.214 ng
RT: 3.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 42 Resp: 18479
Ion Ratio Lower Upper
42 100
74 107.9 79.7 119.5
44 7.8 4.7 7.1

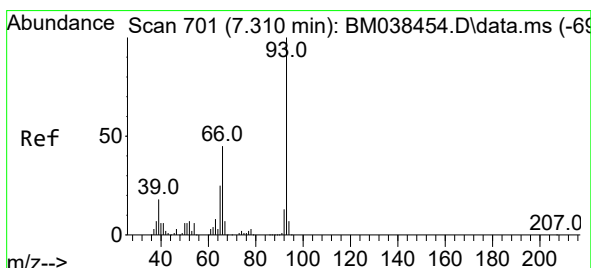
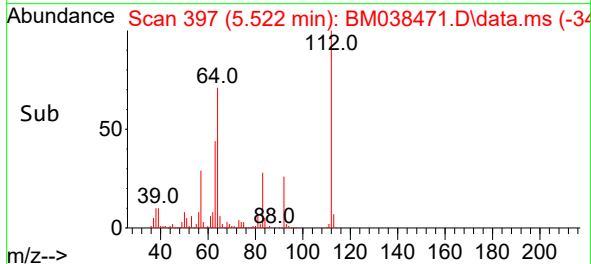
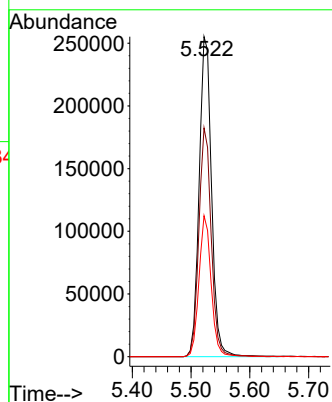
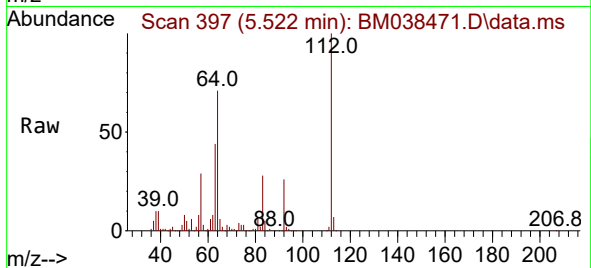




#5
2-Fluorophenol
Concen: 82.346 ng
RT: 5.522 min Scan# 399
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

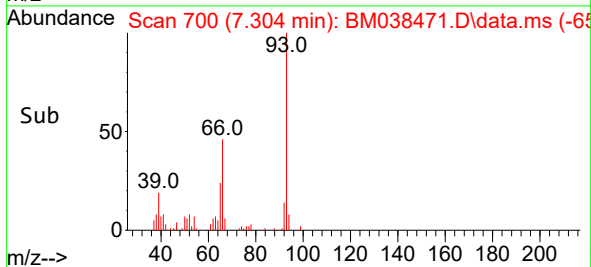
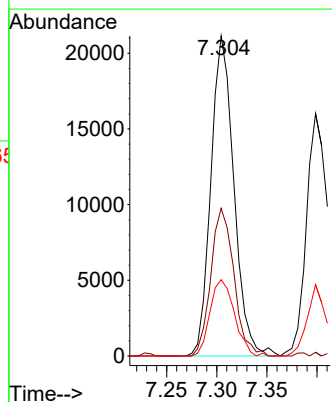
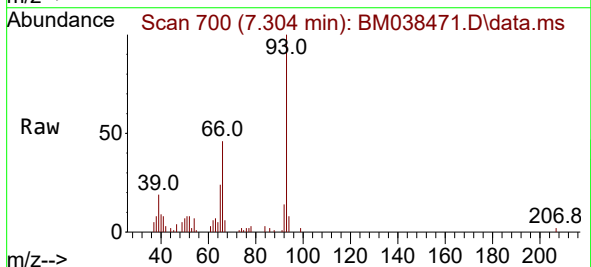
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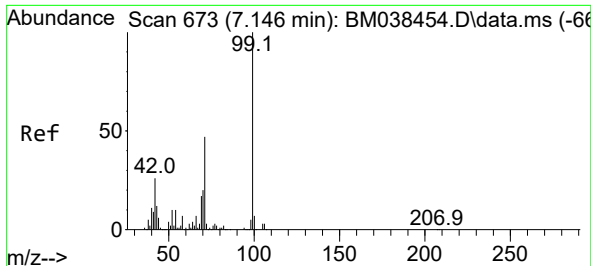
Tgt Ion:112 Resp: 373091
Ion Ratio Lower Upper
112 100
64 71.5 53.7 80.5
63 44.1 33.7 50.5



#6
Aniline
Concen: 4.602 ng
RT: 7.304 min Scan# 700
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 93 Resp: 33734
Ion Ratio Lower Upper
93 100
66 46.2 36.2 54.2
65 23.9 19.8 29.8

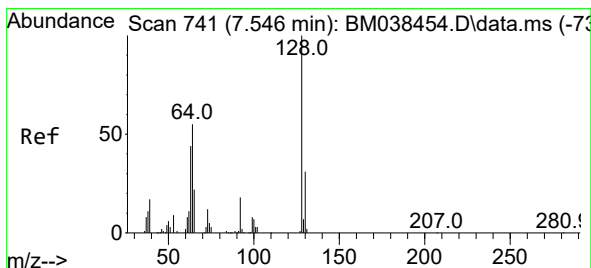
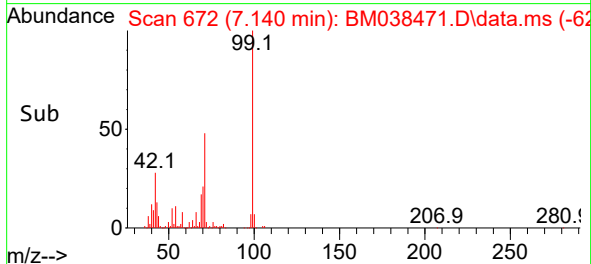
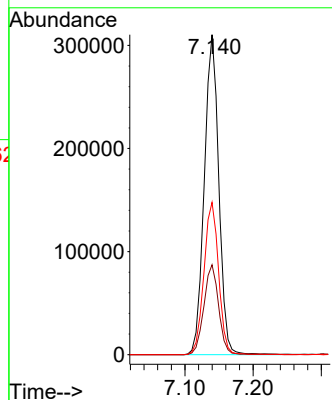
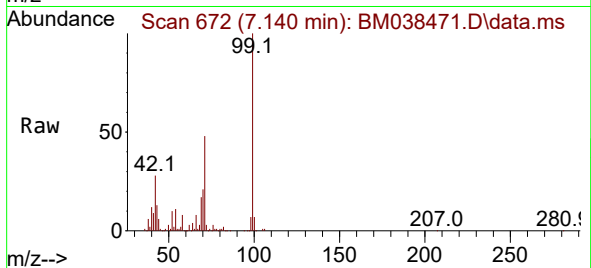




#7
Phenol-d6
Concen: 79.262 ng
RT: 7.140 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

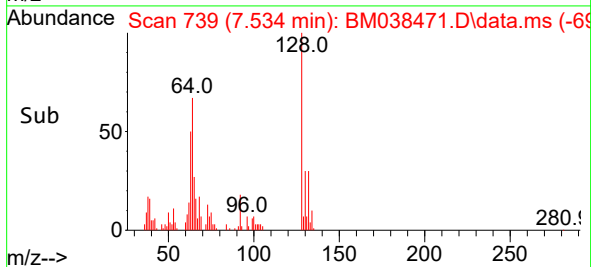
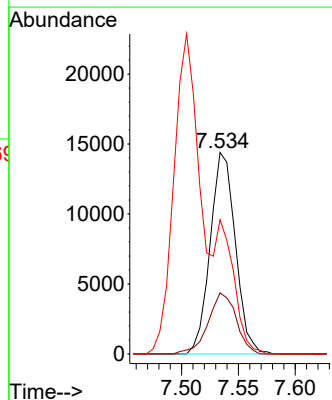
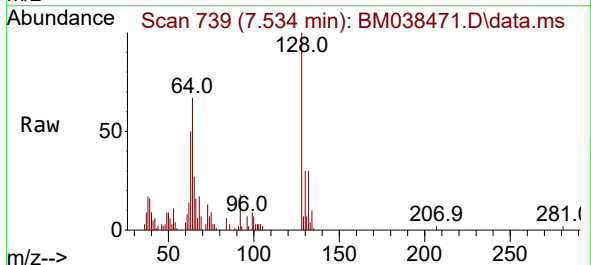
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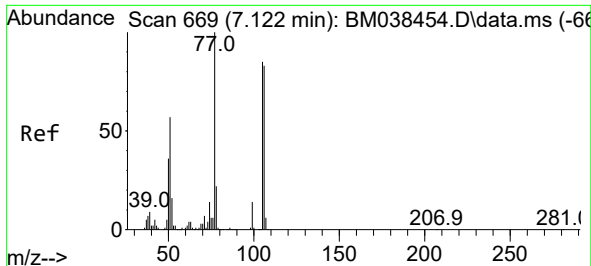
Tgt Ion: 99 Resp: 460021
Ion Ratio Lower Upper
99 100
42 28.1 20.8 31.2
71 47.6 37.8 56.8



#8
2-Chlorophenol
Concen: 4.952 ng
RT: 7.534 min Scan# 739
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 128 Resp: 22215
Ion Ratio Lower Upper
128 100
130 30.4 11.5 51.5
64 66.7 38.0 78.0

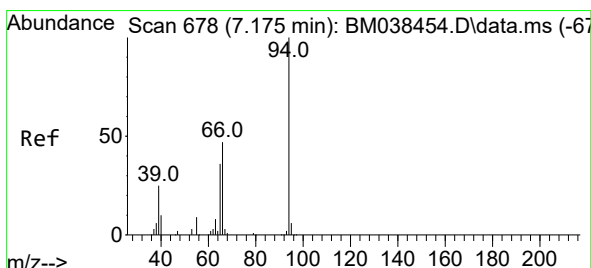
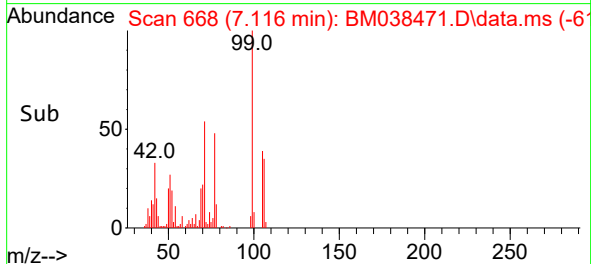
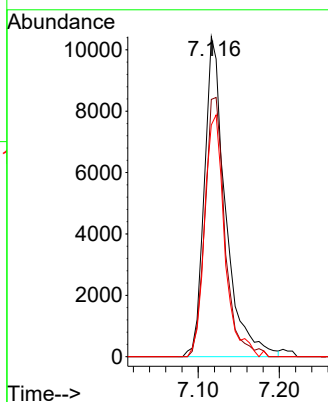
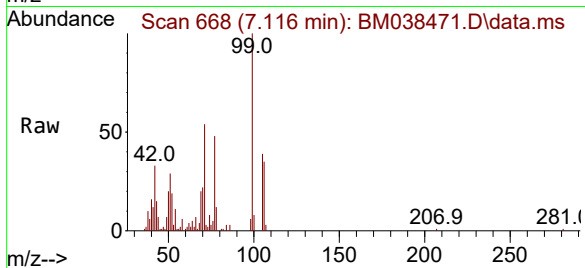




#9
Benzaldehyde
Concen: 4.874 ng
RT: 7.116 min Scan# 669
Delta R.T. -0.006 min
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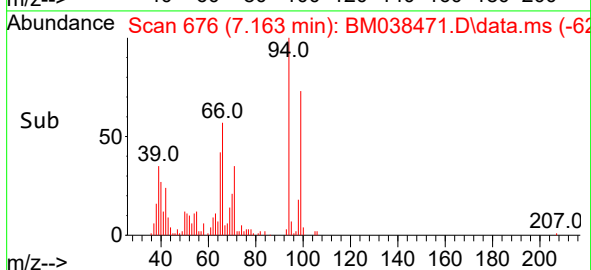
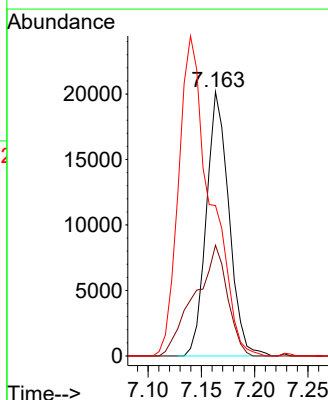
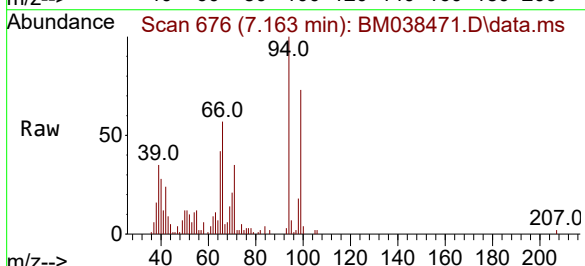
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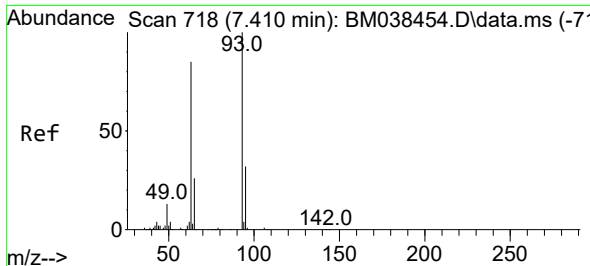
Tgt Ion: 77	Resp: 18915
Ion Ratio	Lower Upper
77 100	
105 80.4	65.3 105.3
106 72.4	62.5 102.5



#10
Phenol
Concen: 4.912 ng
RT: 7.163 min Scan# 676
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 94	Resp: 29711
Ion Ratio	Lower Upper
94 100	
65 41.9	16.3 56.3
66 56.9	29.2 69.2

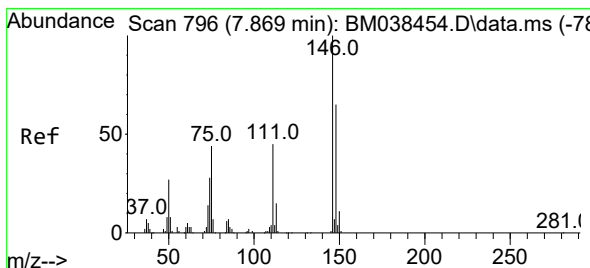
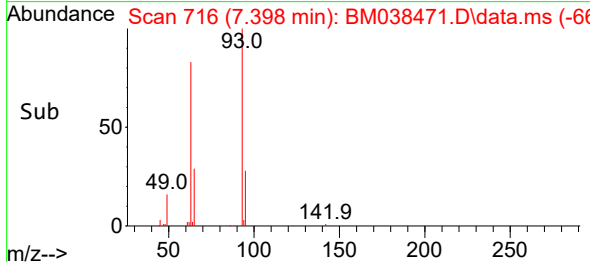
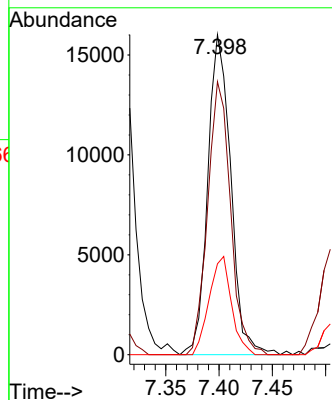
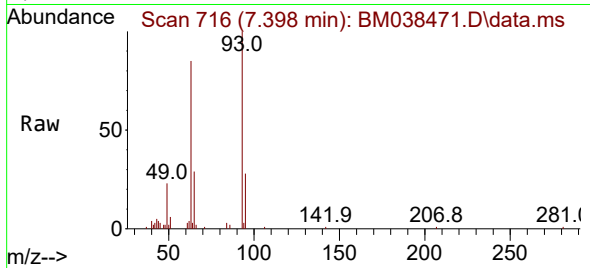




#11
bis(2-Chloroethyl)ether
Concen: 4.907 ng
RT: 7.398 min Scan# 718
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

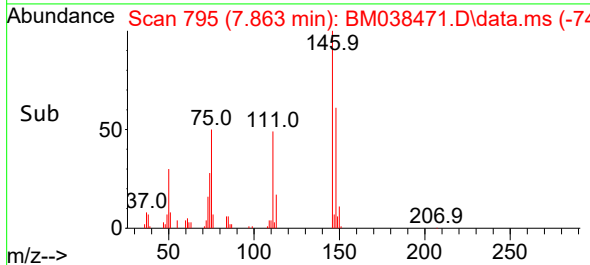
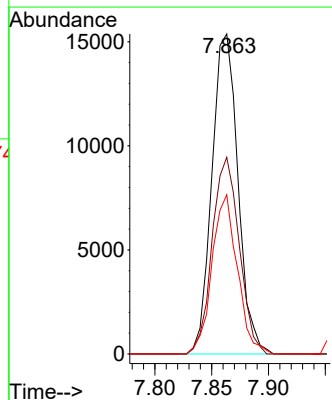
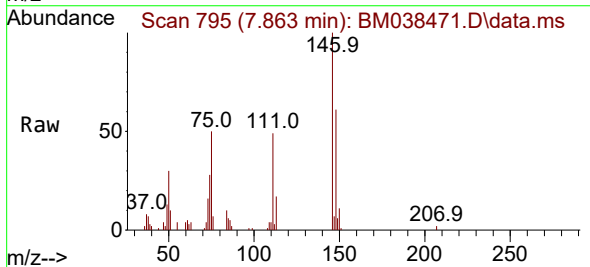
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

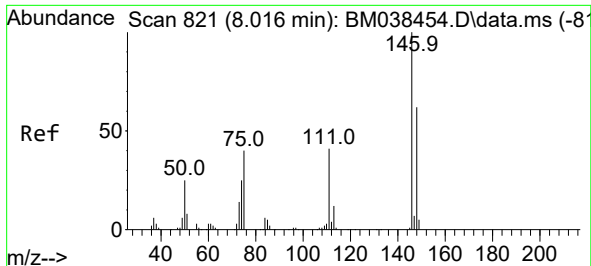
Tgt Ion: 93 Resp: 24049
Ion Ratio Lower Upper
93 100
63 85.3 64.6 104.6
95 28.4 12.0 52.0



#12
1,3-Dichlorobenzene
Concen: 5.108 ng
RT: 7.863 min Scan# 795
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:146 Resp: 24548
Ion Ratio Lower Upper
146 100
148 61.5 51.8 77.8
75 49.7 35.1 52.7

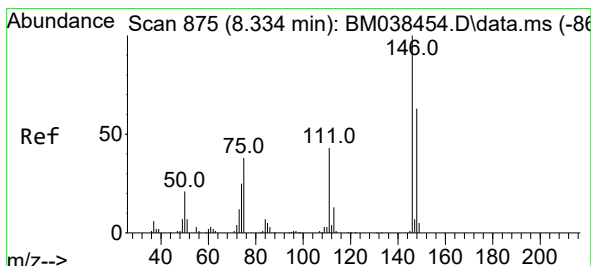
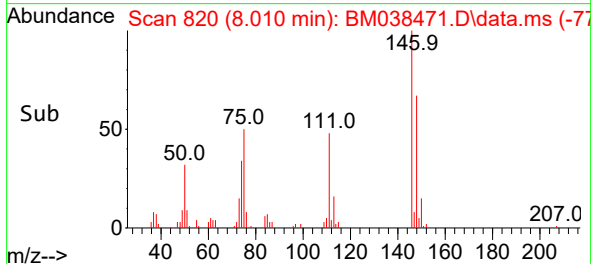
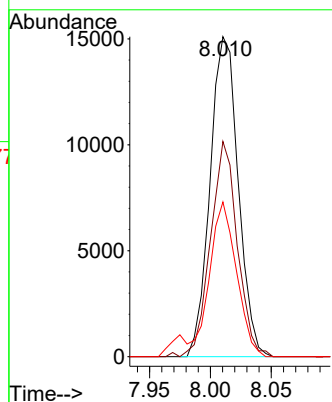
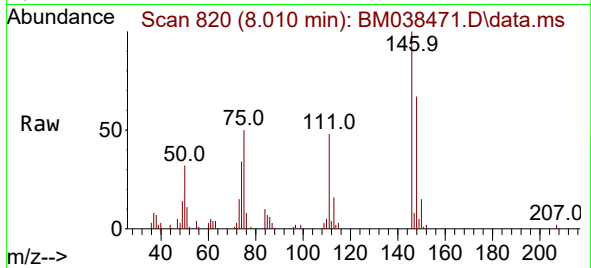




#13
1,4-Dichlorobenzene
Concen: 5.023 ng
RT: 8.010 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

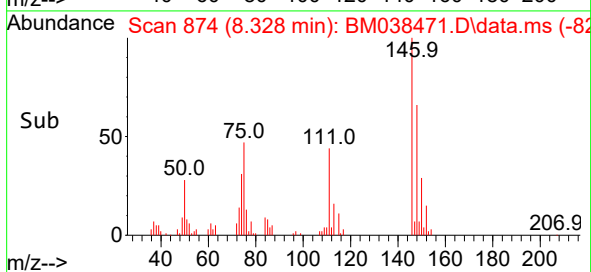
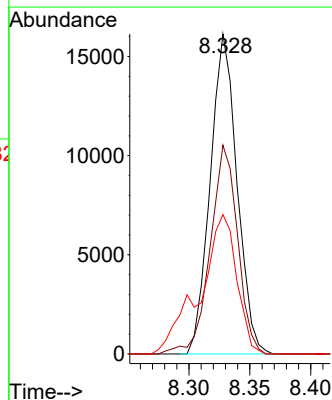
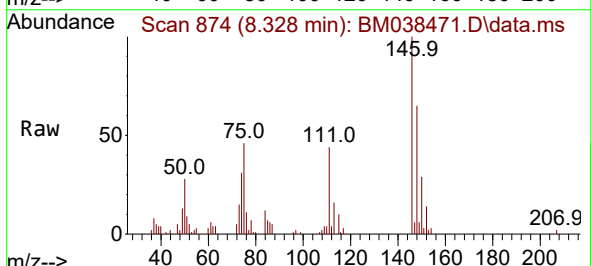
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

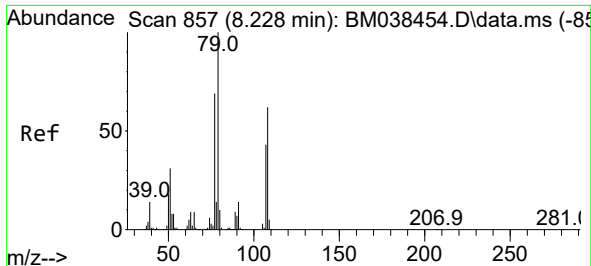
Tgt Ion:146 Resp: 24284
Ion Ratio Lower Upper
146 100
148 67.3 50.1 75.1
111 48.4 32.8 49.2



#14
1,2-Dichlorobenzene
Concen: 5.215 ng
RT: 8.328 min Scan# 874
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:146 Resp: 24652
Ion Ratio Lower Upper
146 100
148 65.2 50.7 76.1
111 43.5 35.2 52.8

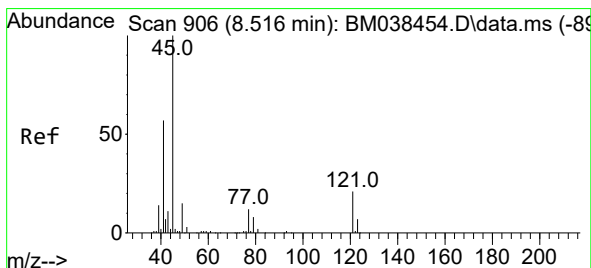
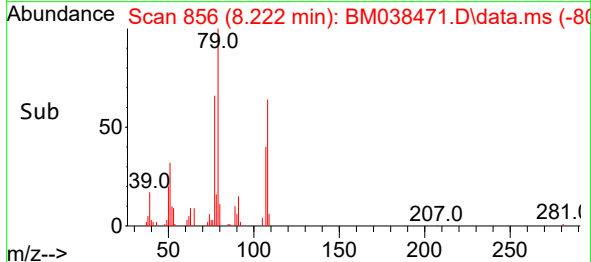
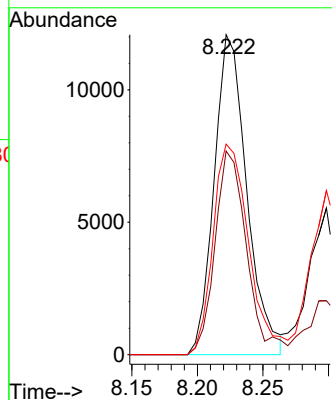
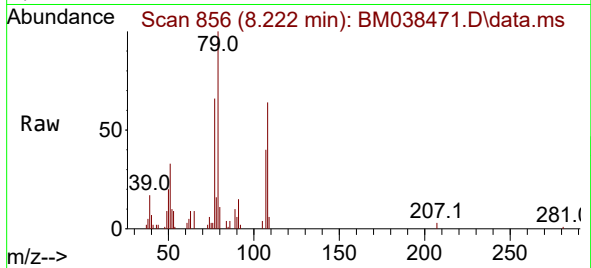




#15
Benzyl Alcohol
Concen: 4.499 ng
RT: 8.222 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

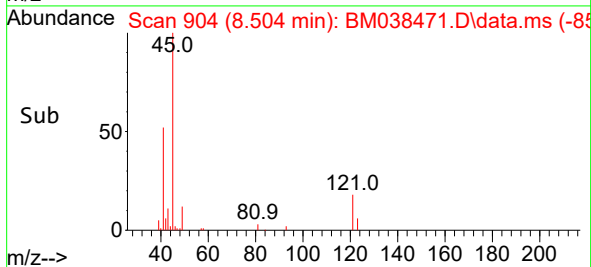
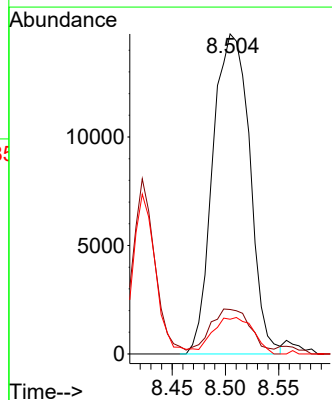
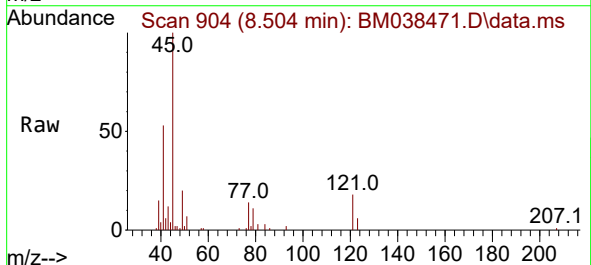
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

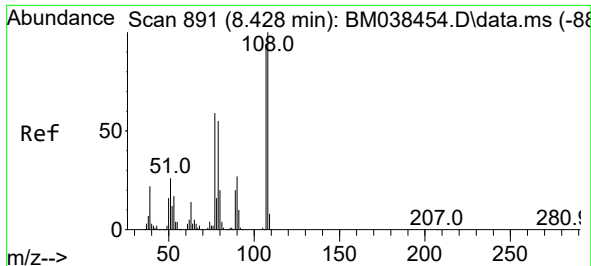
Tgt Ion: 79 Resp: 20913
Ion Ratio Lower Upper
79 100
108 63.7 49.3 73.9
77 65.8 55.1 82.7



#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.192 ng
RT: 8.504 min Scan# 904
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 45 Resp: 35481
Ion Ratio Lower Upper
45 100
77 13.9 0.0 34.7
79 10.9 0.0 30.4

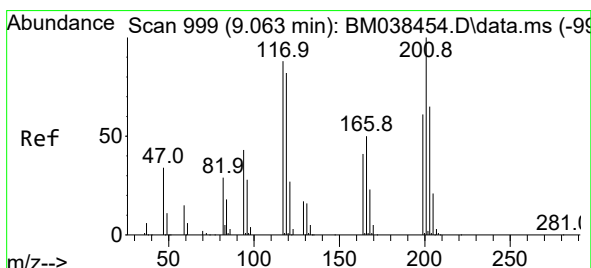
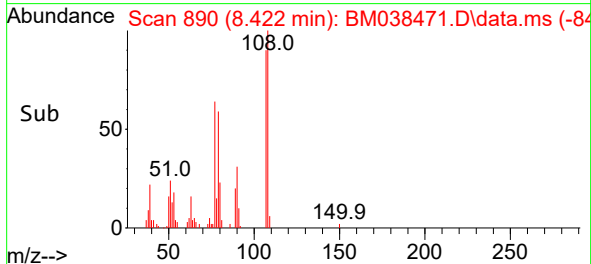
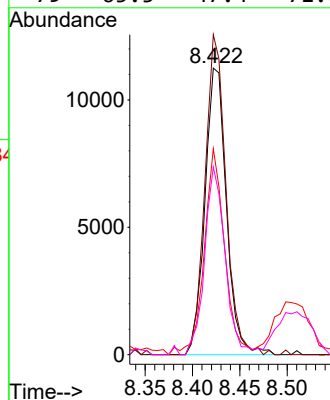
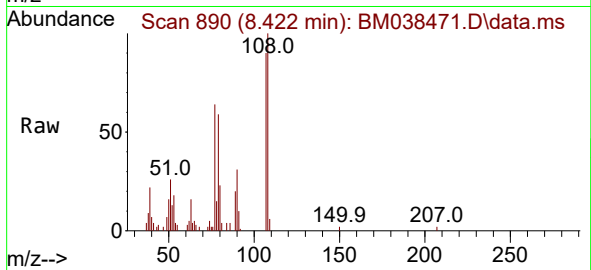




#17
2-Methylphenol
Concen: 4.366 ng
RT: 8.422 min Scan# 891
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

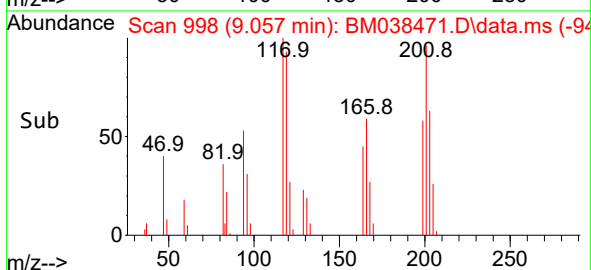
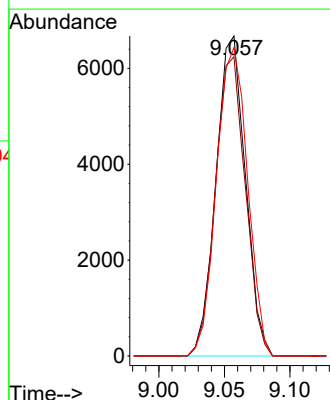
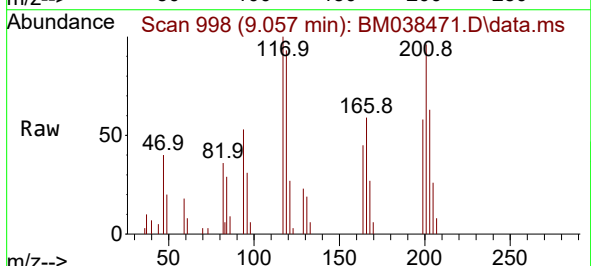
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

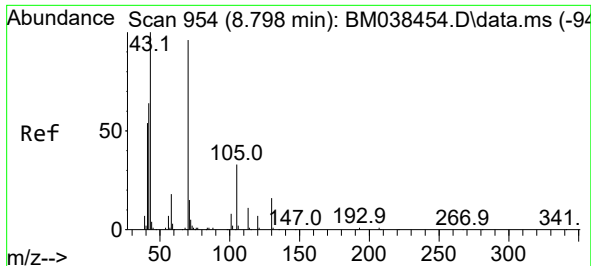
Tgt Ion:	107	Resp:	17834
Ion	Ratio	Lower	Upper
107	100		
108	111.7	85.7	128.5
77	71.8	50.5	75.7
79	65.5	47.4	71.0



#18
Hexachloroethane
Concen: 5.258 ng
RT: 9.057 min Scan# 998
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:	117	Resp:	10413
Ion	Ratio	Lower	Upper
117	100		
119	93.5	74.5	111.7
201	96.4	91.3	136.9

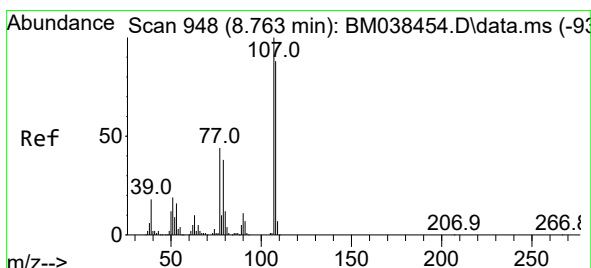
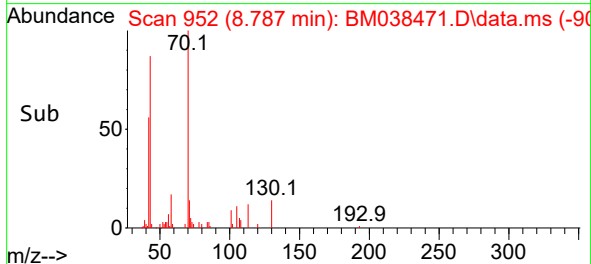
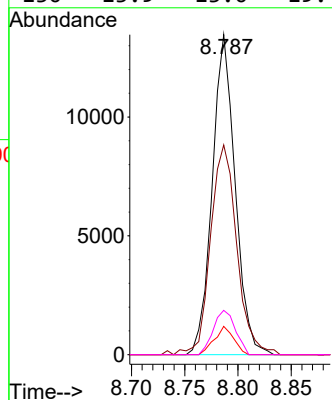
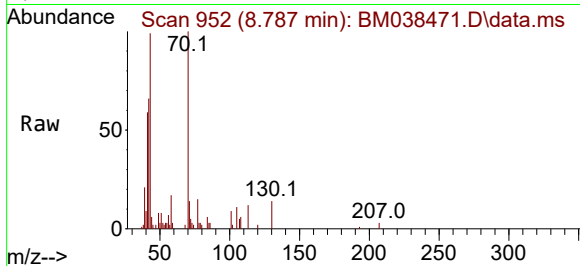




#19
n-Nitroso-di-n-propylamine
Concen: 4.780 ng
RT: 8.787 min Scan# 911
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

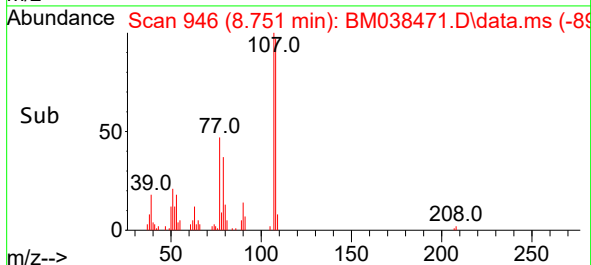
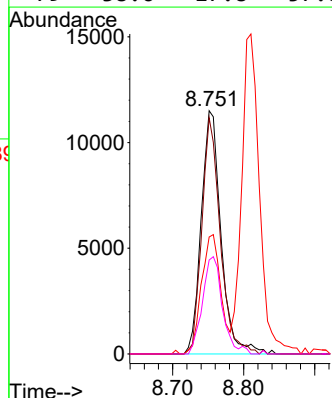
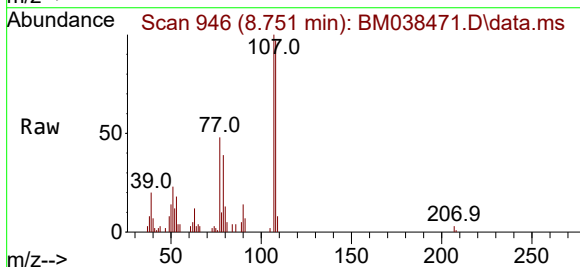
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

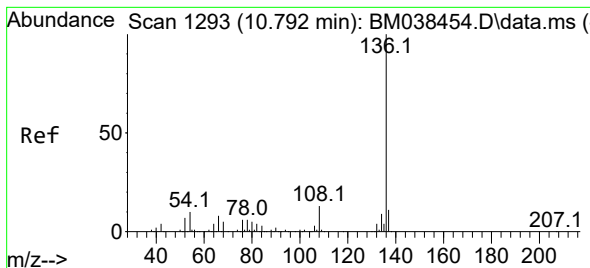
Tgt Ion:	70	Resp:	20138
Ion	Ratio	Lower	Upper
70	100		
42	65.5	54.2	81.2
101	8.8	6.6	10.0
130	13.9	13.0	19.4



#20
3+4-Methylphenols
Concen: 4.070 ng
RT: 8.751 min Scan# 946
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:	107	Resp:	22325
Ion	Ratio	Lower	Upper
107	100		
108	97.1	67.6	107.6
77	48.1	24.1	64.1
79	38.6	17.8	57.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.787 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038471.D

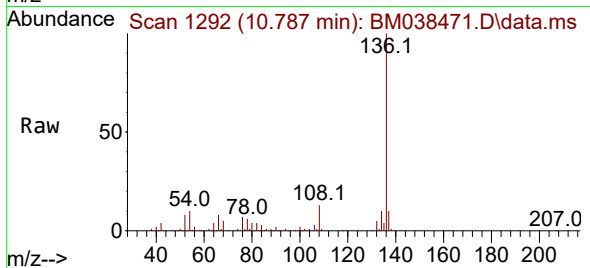
Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022



Tgt Ion:136 Resp: 250537

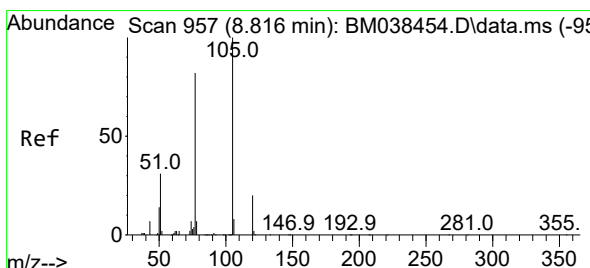
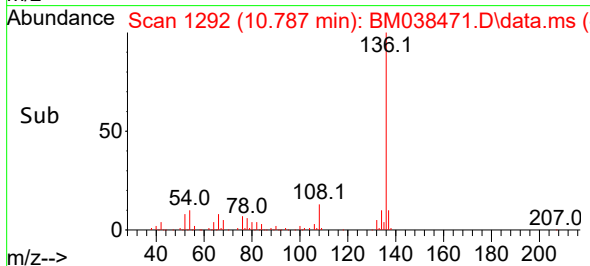
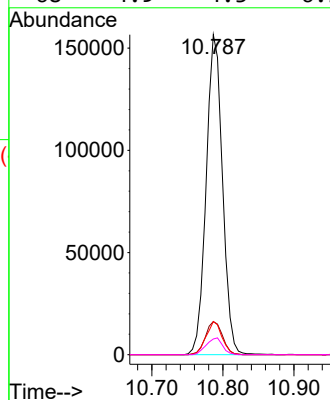
Ion Ratio Lower Upper

136 100

137 10.4 9.0 13.4

54 10.3 7.6 11.4

68 4.9 4.3 6.5



#22

Acetophenone

Concen: 3.848 ng

RT: 8.810 min Scan# 956

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Tgt Ion:105 Resp: 28496

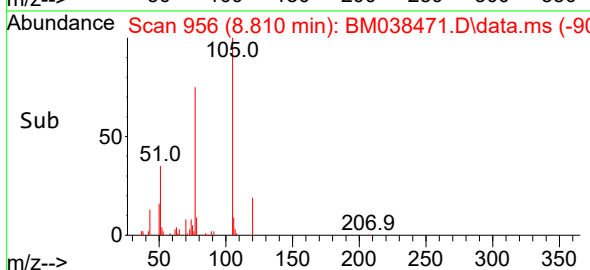
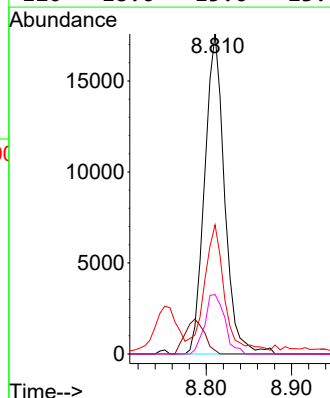
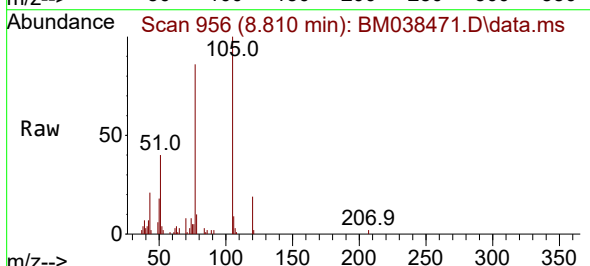
Ion Ratio Lower Upper

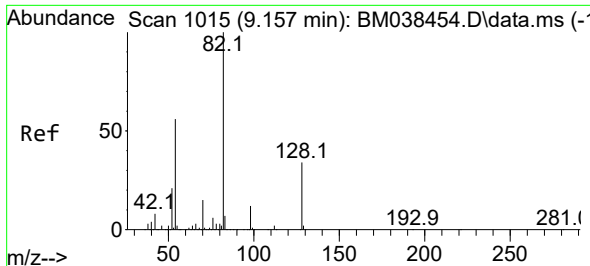
105 100

71 1.1 1.0 1.6

51 40.4 27.4 41.2

120 18.6 15.6 23.4





#23

Nitrobenzene-d5

Concen: 64.202 ng

RT: 9.151 min Scan# 1014

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

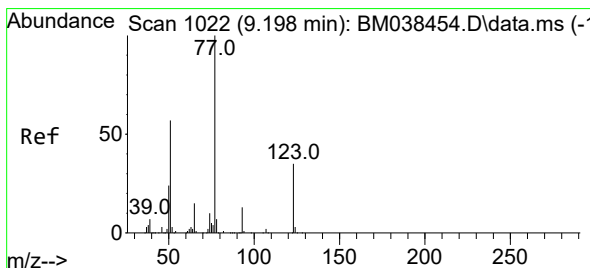
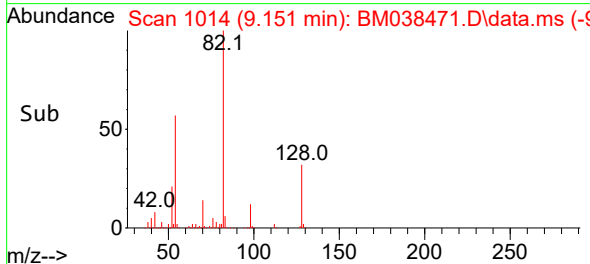
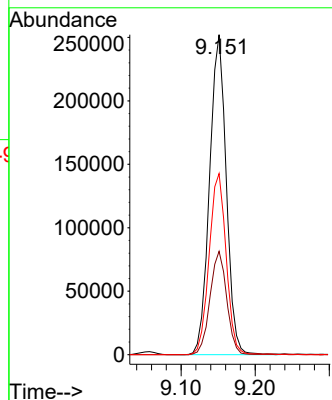
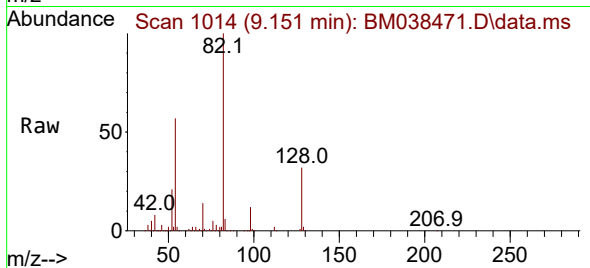
Tgt Ion: 82 Resp: 394768

Ion Ratio Lower Upper

82 100

128 32.3 27.0 40.6

54 56.6 45.0 67.6



#24

Nitrobenzene

Concen: 5.095 ng

RT: 9.192 min Scan# 1021

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

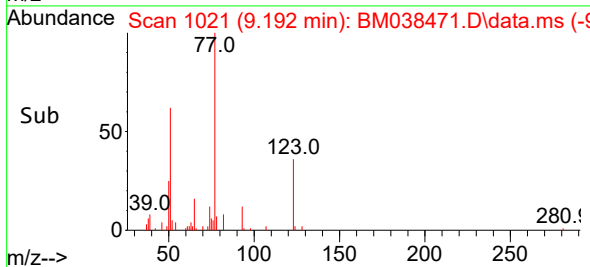
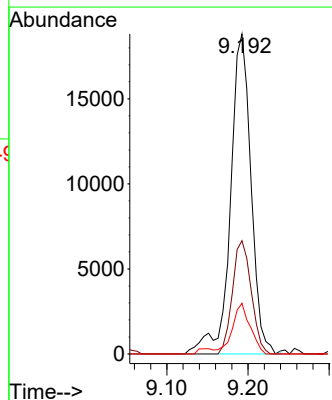
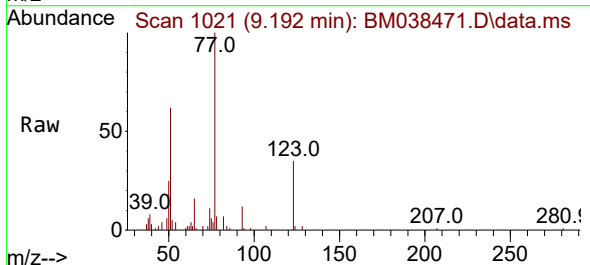
Tgt Ion: 77 Resp: 33101

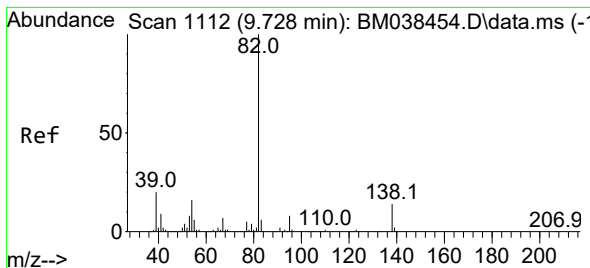
Ion Ratio Lower Upper

77 100

123 35.4 28.2 42.4

65 15.9 12.1 18.1





#25

Isophorone

Concen: 4.651 ng

RT: 9.716 min Scan# 1110

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

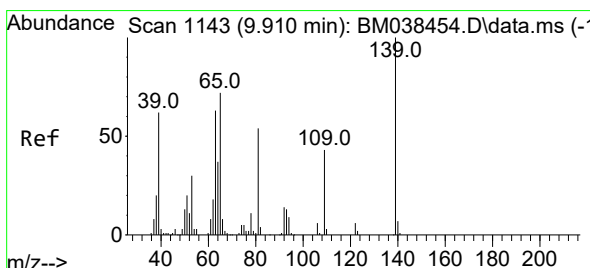
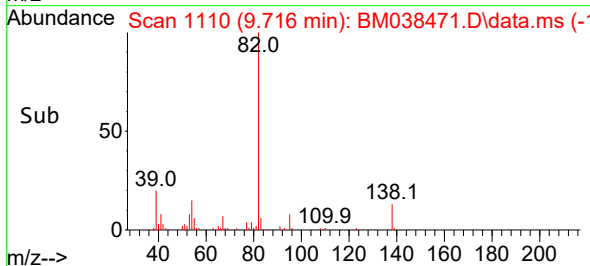
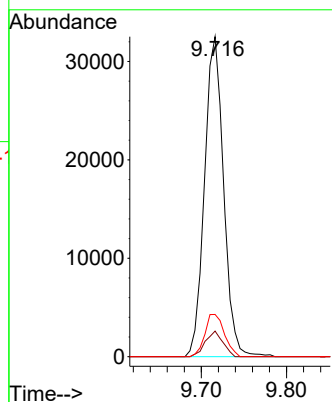
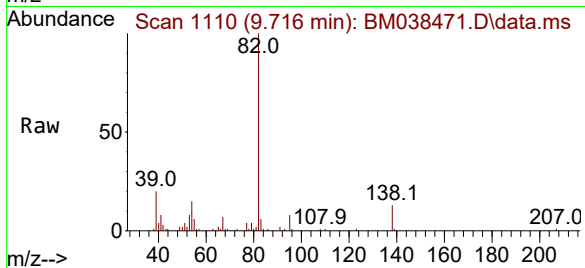
Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

Tgt Ion:	82	Resp:	50661
Ion Ratio	Lower	Upper	
82	100		
95	8.0	6.1	9.1
138	13.2	11.5	17.3



#26

2-Nitrophenol

Concen: 4.126 ng

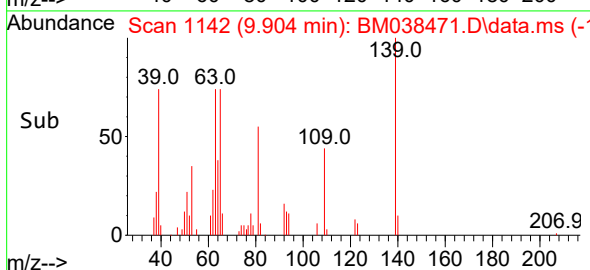
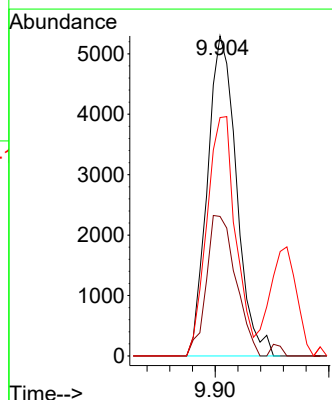
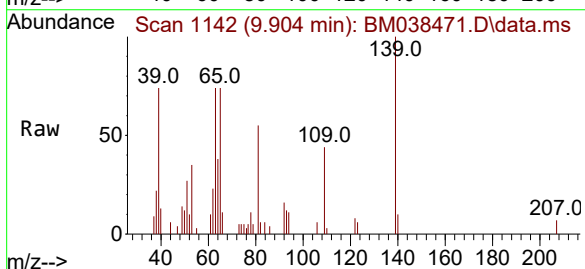
RT: 9.904 min Scan# 1142

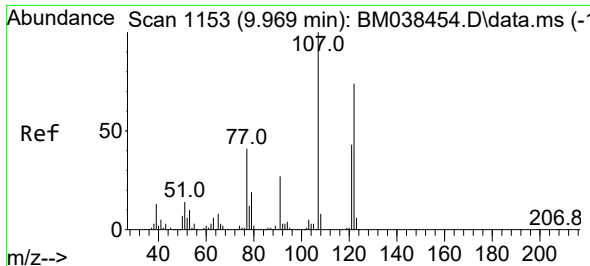
Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Tgt Ion:	139	Resp:	9411
Ion Ratio	Lower	Upper	
139	100		
109	43.6	34.7	52.1
65	74.5	57.4	86.0

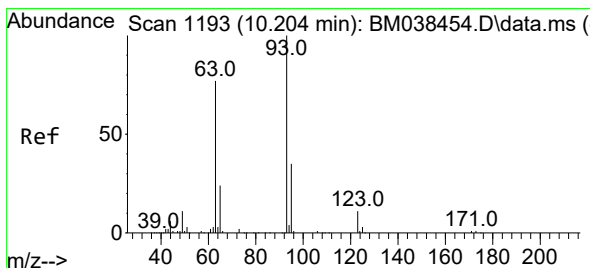
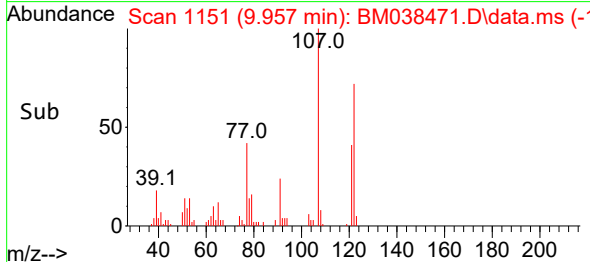
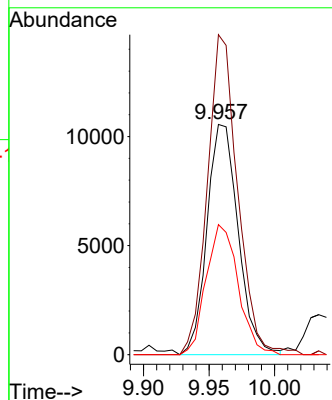
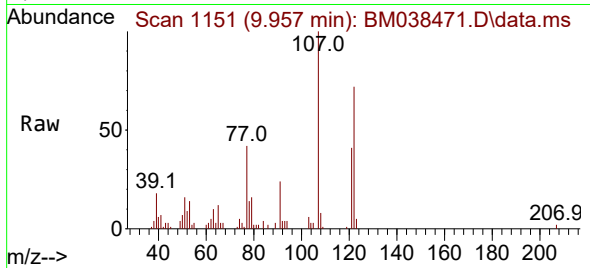




#27
2,4-Dimethylphenol
Concen: 4.500 ng
RT: 9.957 min Scan# 1151
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

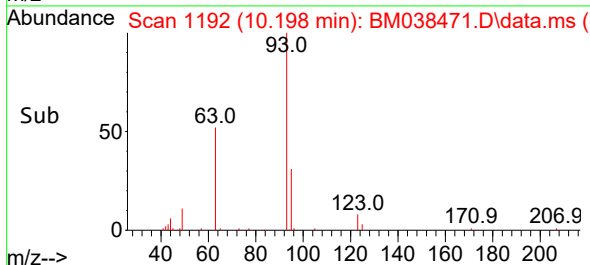
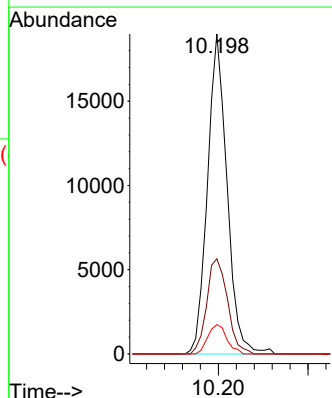
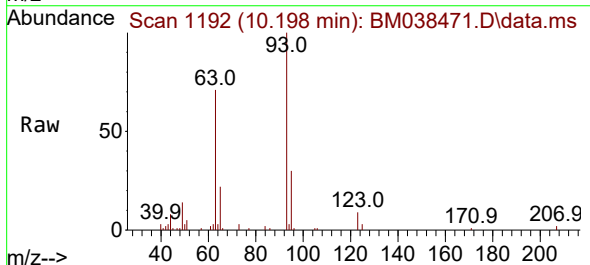
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

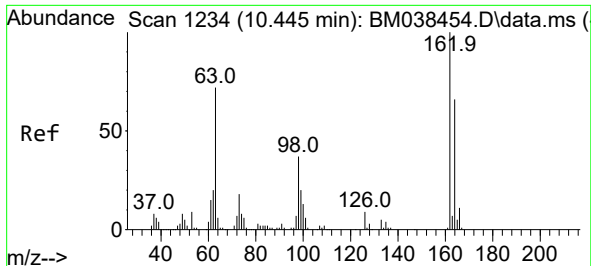
Tgt Ion:122 Resp: 17479
Ion Ratio Lower Upper
122 100
107 139.0 107.4 161.0
121 56.5 46.6 70.0



#28
bis(2-Chloroethoxy)methane
Concen: 4.682 ng
RT: 10.198 min Scan# 1192
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 93 Resp: 28680
Ion Ratio Lower Upper
93 100
95 29.7 27.7 41.5
123 9.2 8.6 13.0





#29

2,4-Dichlorophenol

Concen: 4.014 ng

RT: 10.439 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

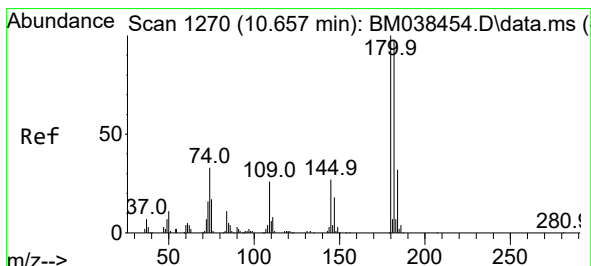
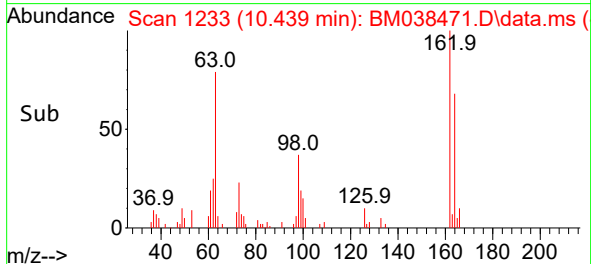
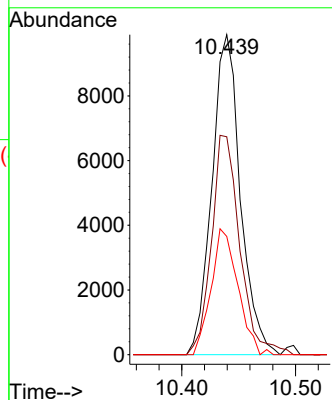
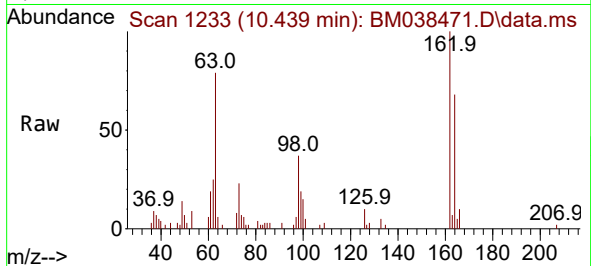
Tgt Ion:162 Resp: 17225

Ion Ratio Lower Upper

162 100

164 68.1 46.5 86.5

98 36.9 17.1 57.1



#30

1,2,4-Trichlorobenzene

Concen: 4.462 ng

RT: 10.651 min Scan# 1269

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

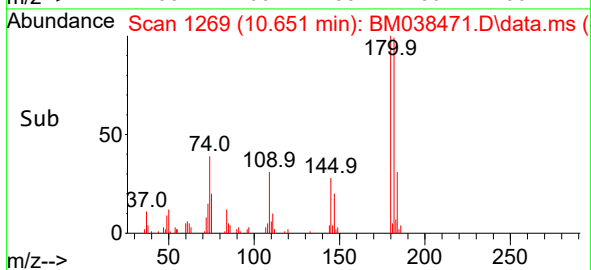
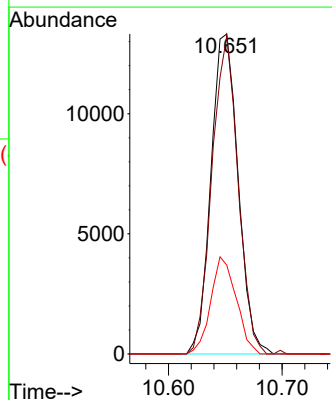
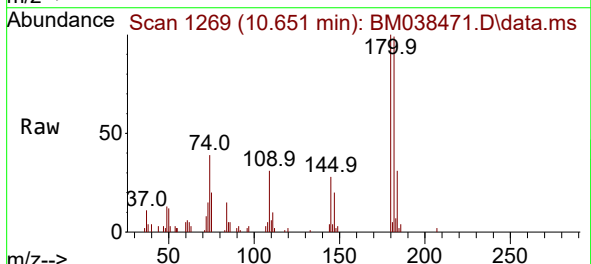
Tgt Ion:180 Resp: 22139

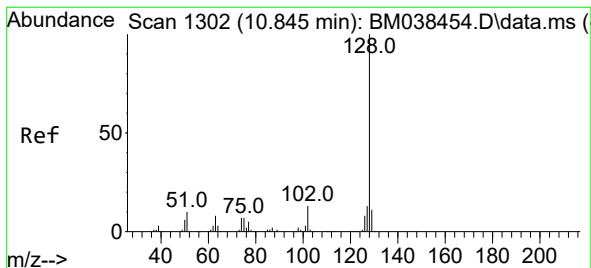
Ion Ratio Lower Upper

180 100

182 99.4 78.1 117.1

145 27.8 21.9 32.9





#31

Naphthalene

Concen: 4.654 ng

RT: 10.839 min Scan# 1176

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

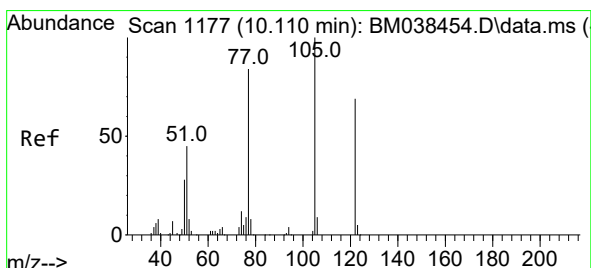
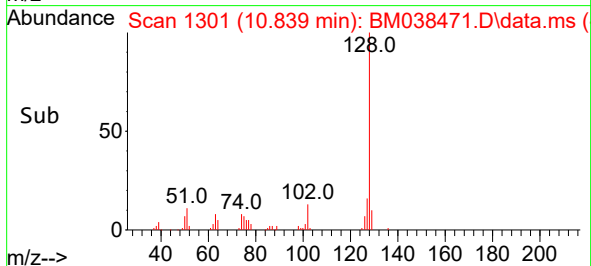
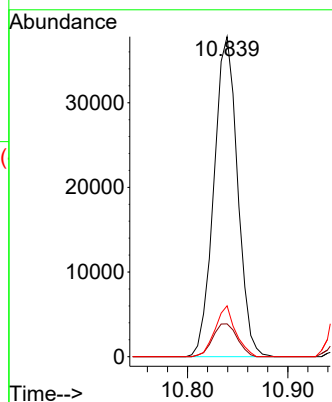
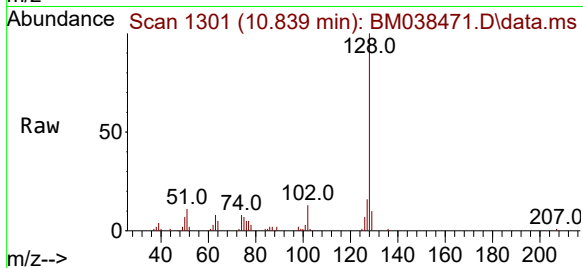
Tgt Ion:128 Resp: 61789

Ion Ratio Lower Upper

128 100

129 10.2 8.9 13.3

127 15.9 10.8 16.2



#32

Benzoic acid

Concen: 5.383 ng

RT: 10.104 min Scan# 1176

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

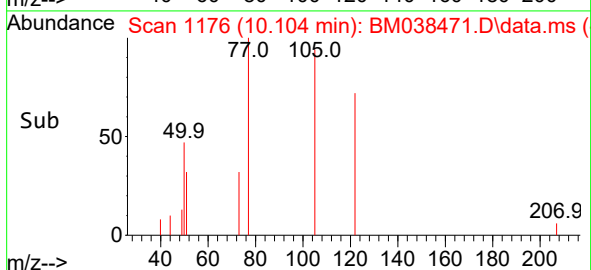
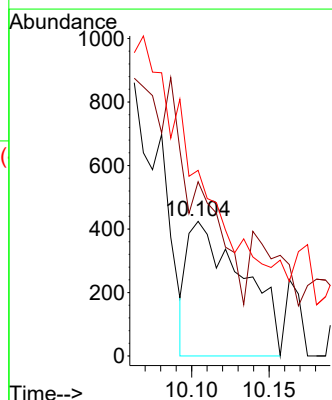
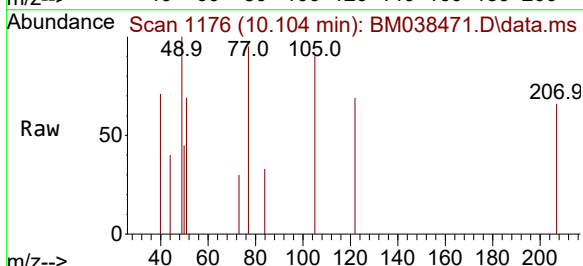
Tgt Ion:122 Resp: 1052

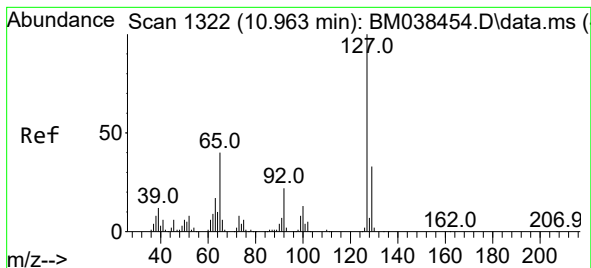
Ion Ratio Lower Upper

122 100

105 129.5 122.6 162.6

77 138.0 101.5 141.5





#33

4-Chloroaniline

Concen: 4.086 ng

RT: 10.957 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038471.D

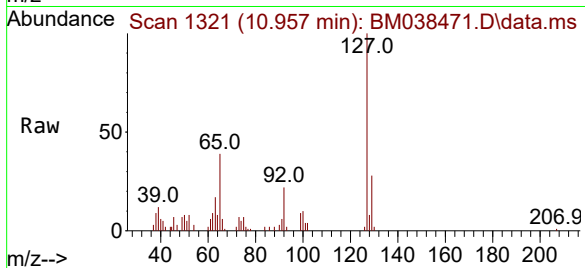
Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022



Tgt Ion:127 Resp: 23811

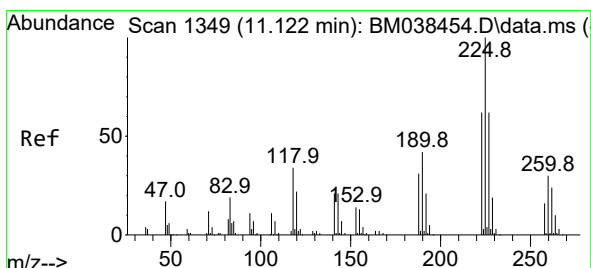
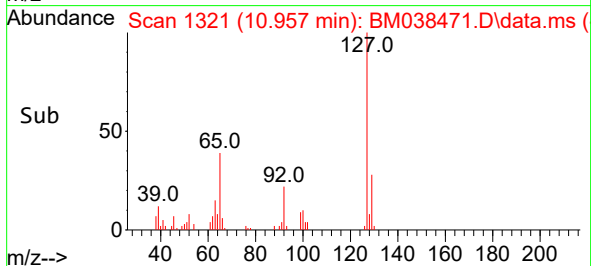
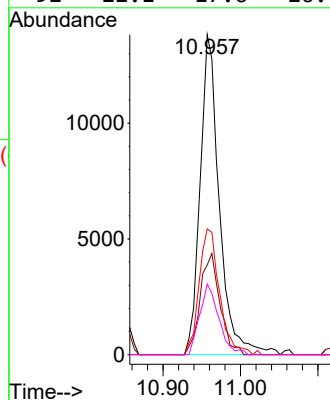
Ion Ratio Lower Upper

127 100

129 28.1 26.4 39.6

65 39.3 32.1 48.1

92 22.1 17.6 26.4



#34

Hexachlorobutadiene

Concen: 4.482 ng

RT: 11.110 min Scan# 1347

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

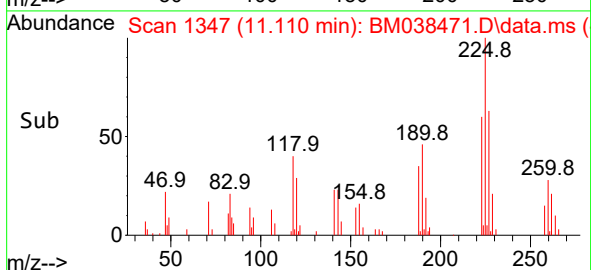
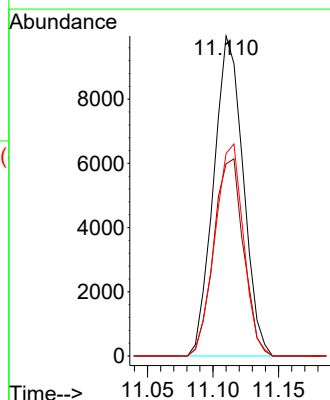
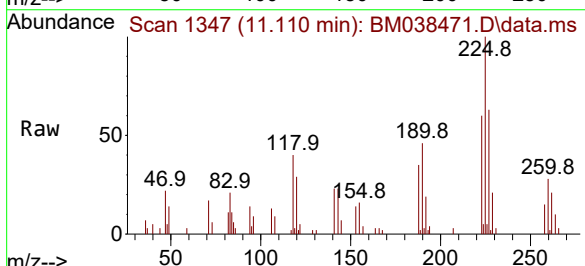
Tgt Ion:225 Resp: 15596

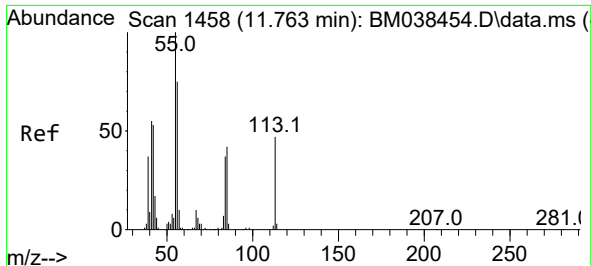
Ion Ratio Lower Upper

225 100

223 64.6 49.8 74.8

227 63.3 49.6 74.4

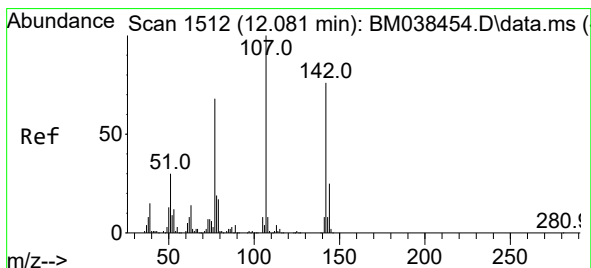
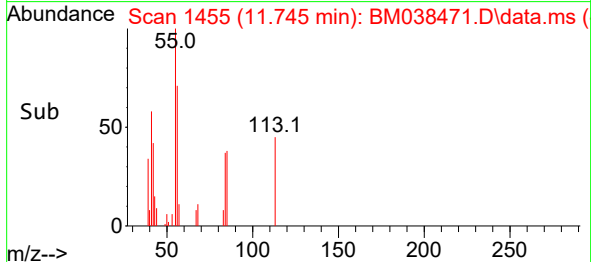
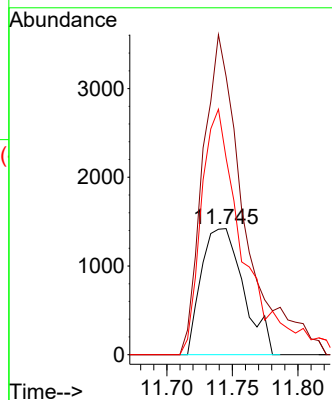
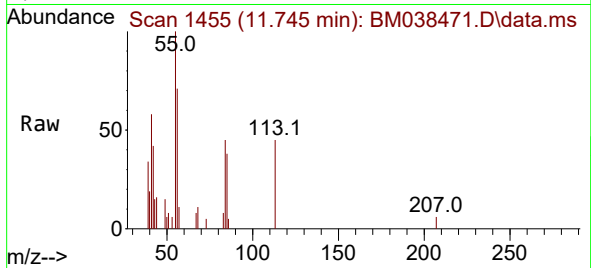




#35
Caprolactam
Concen: 2.610 ng
RT: 11.745 min Scan# 1455
Delta R.T. -0.018 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

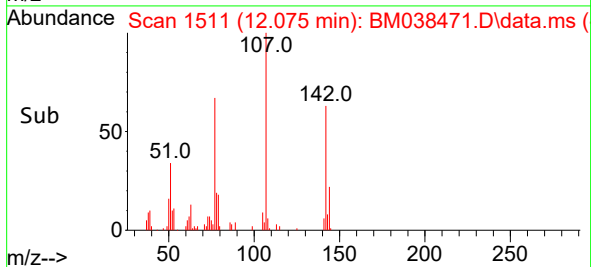
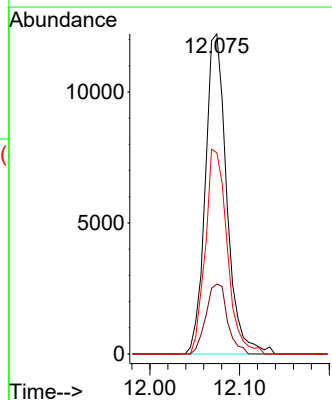
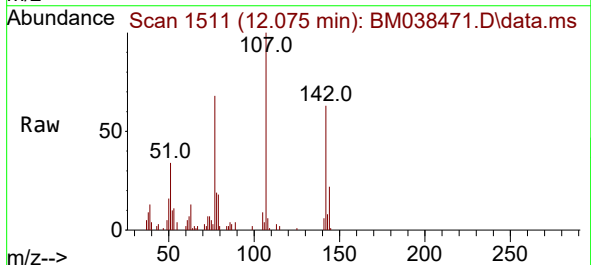
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

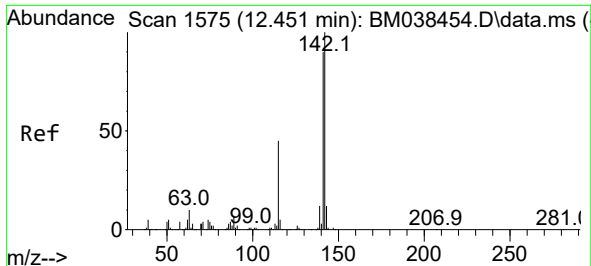
Tgt Ion:113 Resp: 3165
Ion Ratio Lower Upper
113 100
55 220.5 194.2 234.2
56 155.7 141.6 181.6



#36
4-Chloro-3-methylphenol
Concen: 4.336 ng
RT: 12.075 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:107 Resp: 20283
Ion Ratio Lower Upper
107 100
144 21.8 20.3 30.5
142 62.8 61.2 91.8

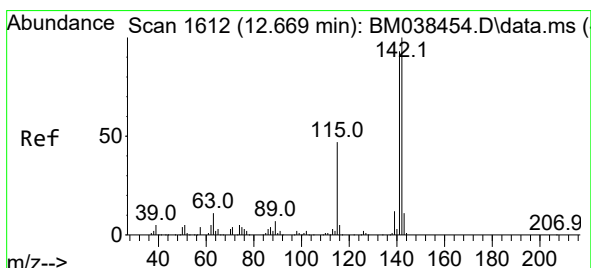
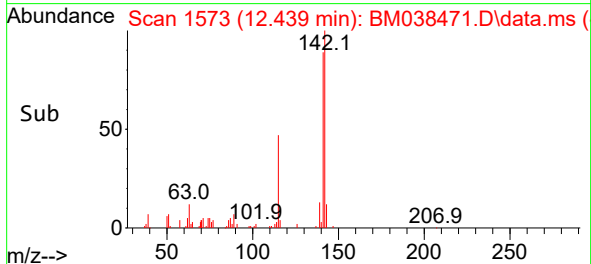
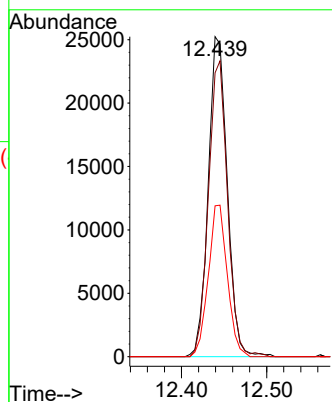
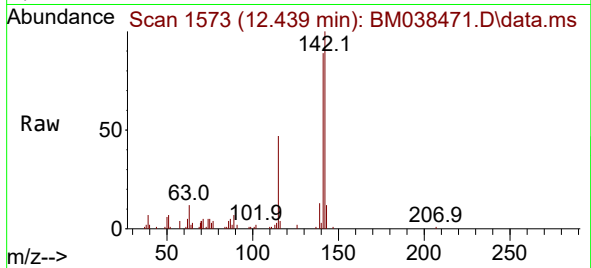




#37
2-Methylnaphthalene
Concen: 4.040 ng
RT: 12.439 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

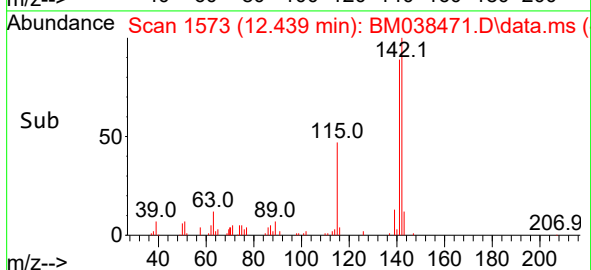
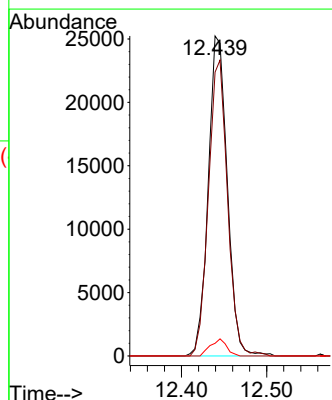
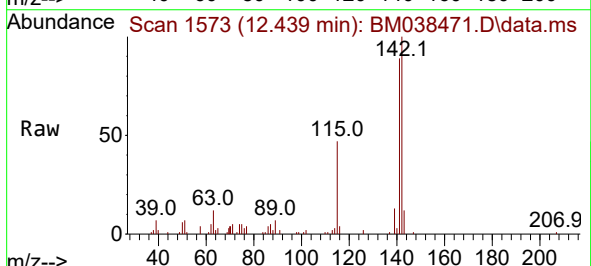
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

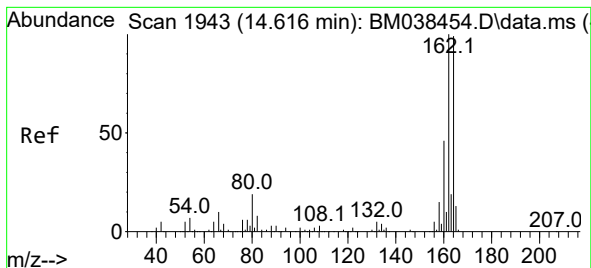
Tgt Ion:142 Resp: 39219
Ion Ratio Lower Upper
142 100
141 88.7 72.0 108.0
115 47.2 35.9 53.9



#38
1-Methylnaphthalene
Concen: 4.303 ng
RT: 12.439 min Scan# 1573
Delta R.T. -0.229 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:142 Resp: 39219
Ion Ratio Lower Upper
142 100
141 88.7 74.4 111.6
116 4.0 3.8 5.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.610 min Scan# 14

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

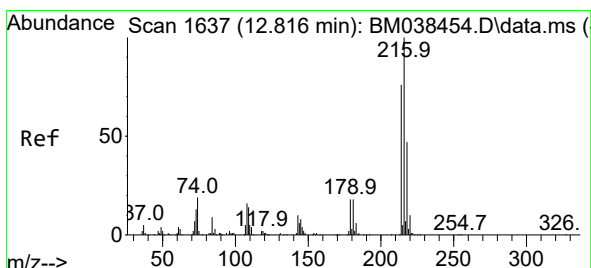
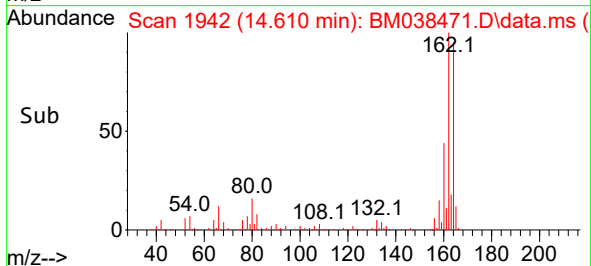
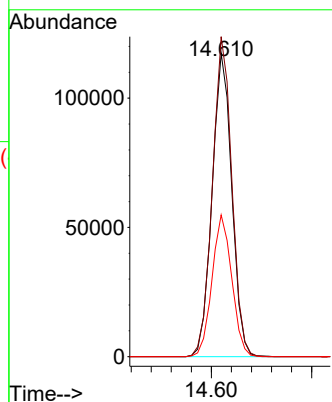
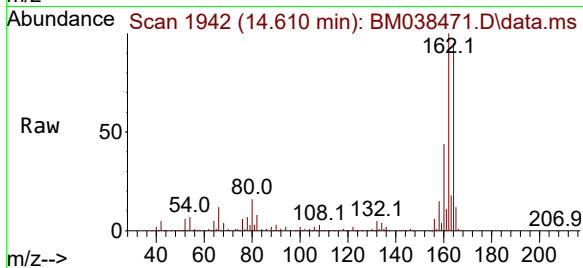
Tgt Ion:164 Resp: 159405

Ion Ratio Lower Upper

164 100

162 105.5 80.9 121.3

160 46.7 37.4 56.0



#40

1,2,4,5-Tetrachlorobenzene

Concen: 3.436 ng

RT: 12.804 min Scan# 1635

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Tgt Ion:216 Resp: 20499

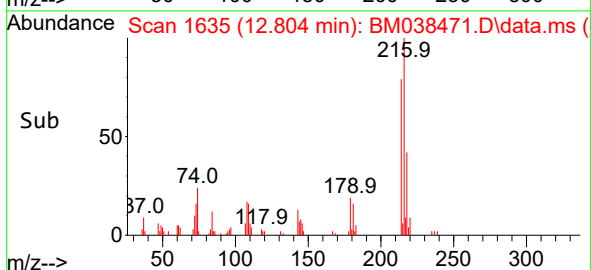
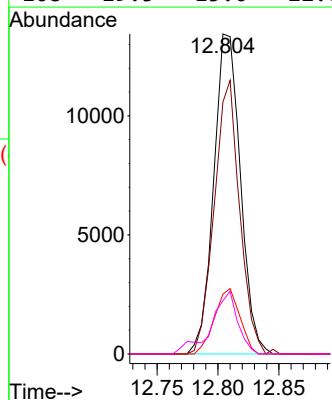
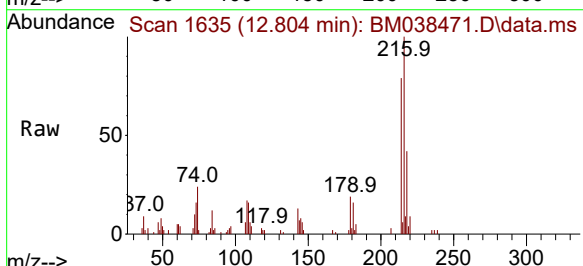
Ion Ratio Lower Upper

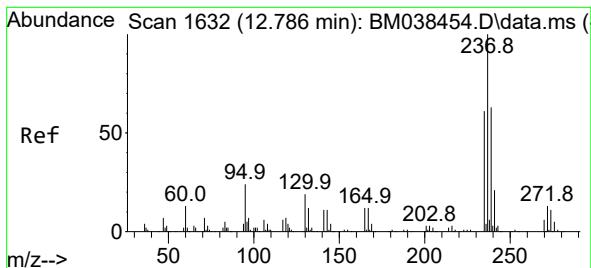
216 100

214 81.3 61.4 92.0

179 19.3 15.3 22.9

108 19.5 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 4.152 ng

RT: 12.780 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

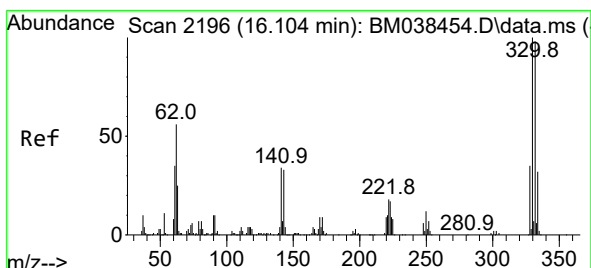
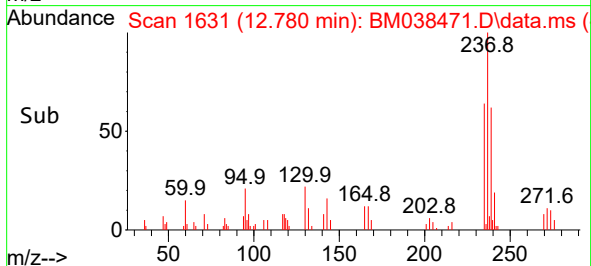
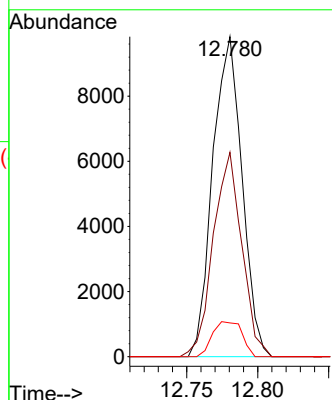
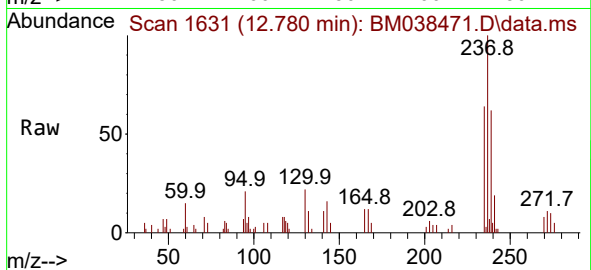
Tgt Ion:237 Resp: 14086

Ion Ratio Lower Upper

237 100

235 63.8 40.9 80.9

272 10.6 0.0 32.6



#42

2,4,6-Tribromophenol

Concen: 74.596 ng

RT: 16.098 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

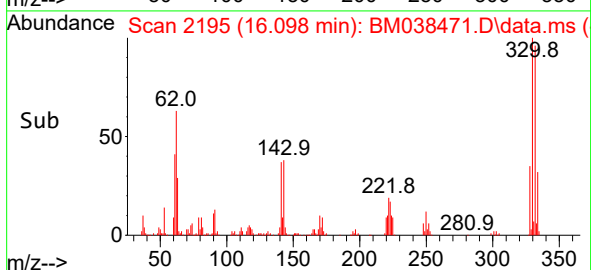
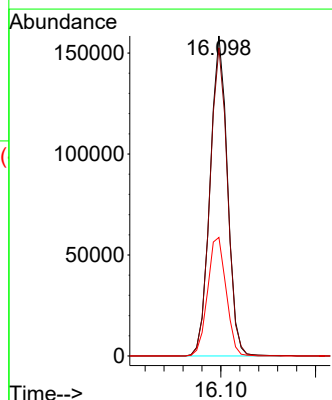
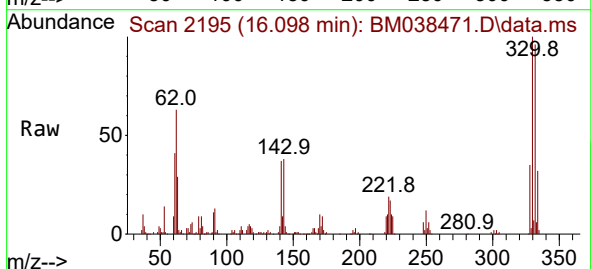
Tgt Ion:330 Resp: 201018

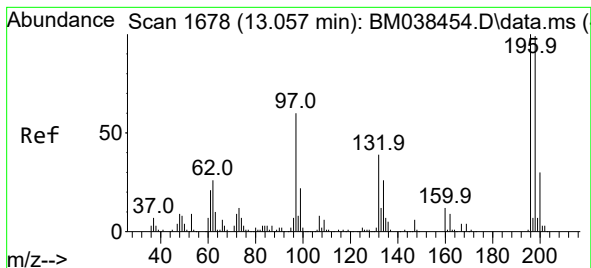
Ion Ratio Lower Upper

330 100

332 97.7 77.0 115.4

141 39.6 28.1 42.1





#43

2,4,6-Trichlorophenol

Concen: 4.206 ng

RT: 13.051 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

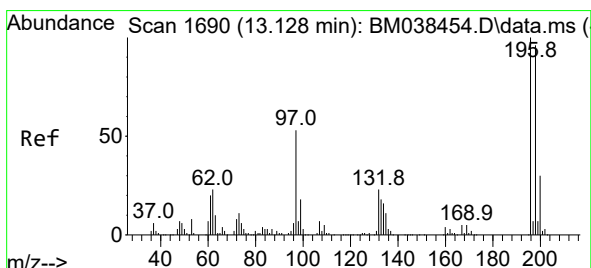
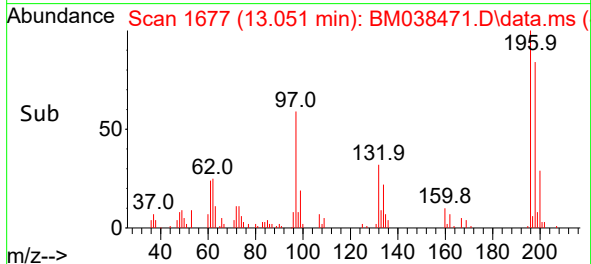
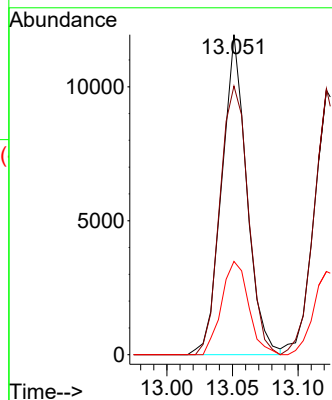
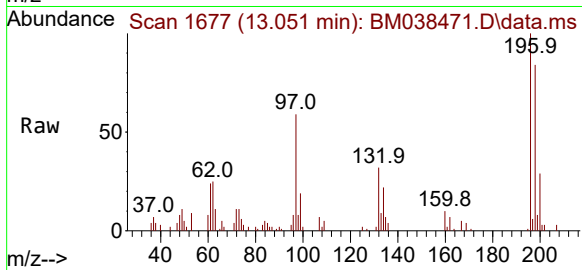
Tgt Ion:196 Resp: 15862

Ion Ratio Lower Upper

196 100

198 84.0 78.8 118.2

200 29.2 24.4 36.6



#44

2,4,5-Trichlorophenol

Concen: 3.834 ng

RT: 13.122 min Scan# 1689

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Tgt Ion:196 Resp: 17050

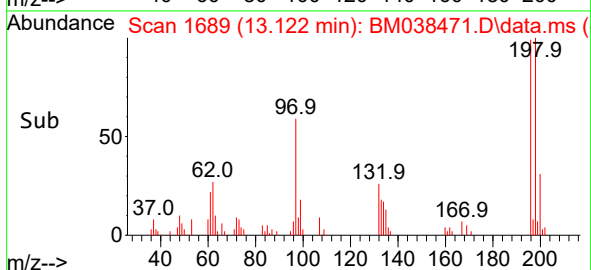
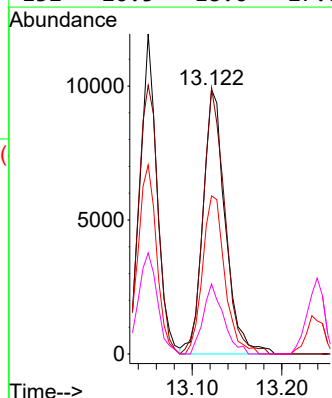
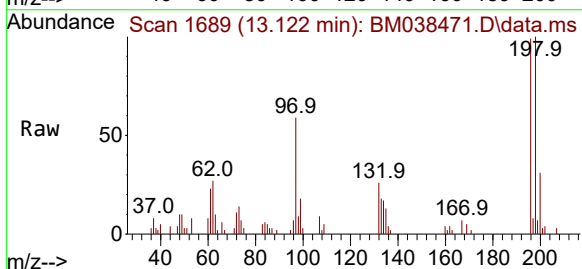
Ion Ratio Lower Upper

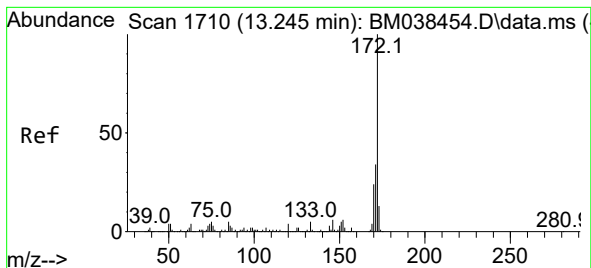
196 100

198 100.6 77.4 116.2

97 59.8 42.4 63.6

132 26.5 18.6 27.8





#45

2-Fluorobiphenyl

Concen: 58.855 ng

RT: 13.239 min Scan# 1709

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

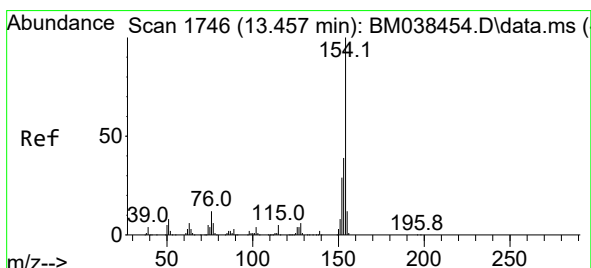
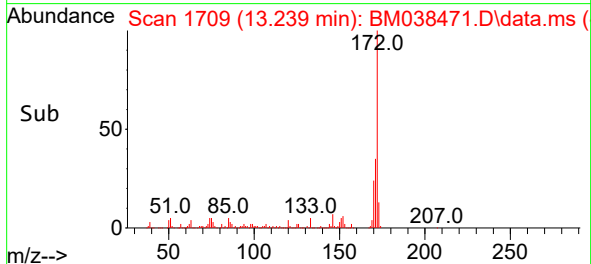
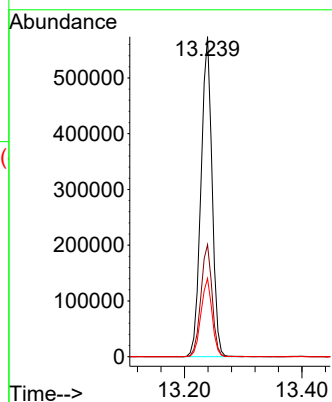
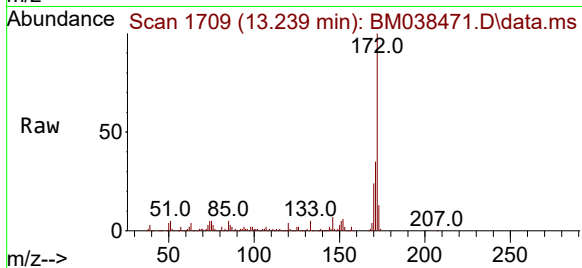
Tgt Ion:172 Resp: 752282

Ion Ratio Lower Upper

172 100

171 35.0 27.5 41.3

170 24.5 19.0 28.6



#46

1,1'-Biphenyl

Concen: 3.639 ng

RT: 13.445 min Scan# 1744

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

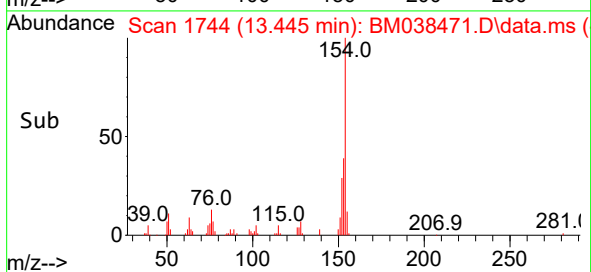
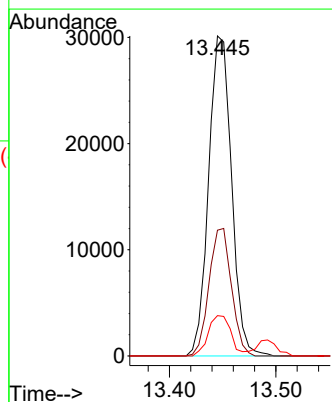
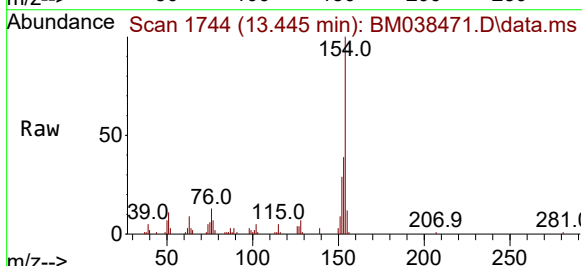
Tgt Ion:154 Resp: 45006

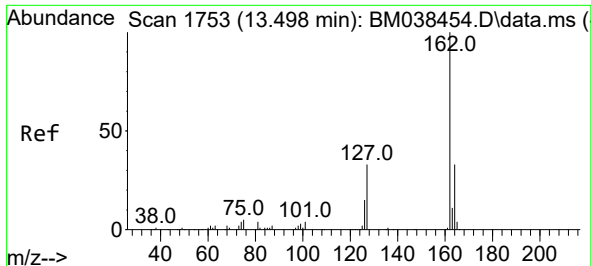
Ion Ratio Lower Upper

154 100

153 39.3 19.3 59.3

76 12.6 0.0 32.2

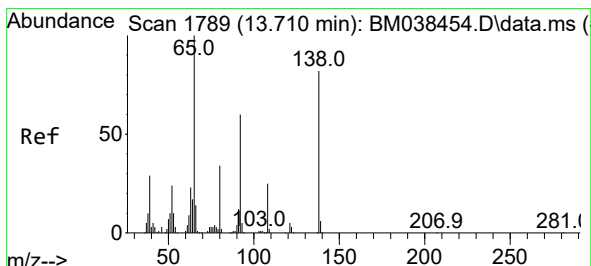
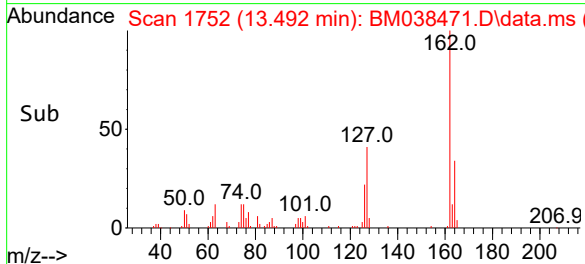
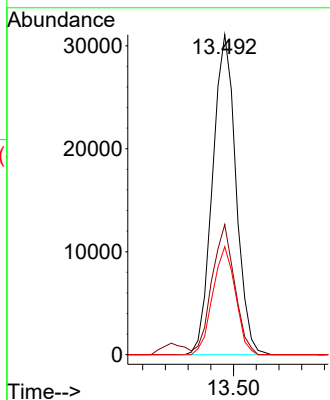
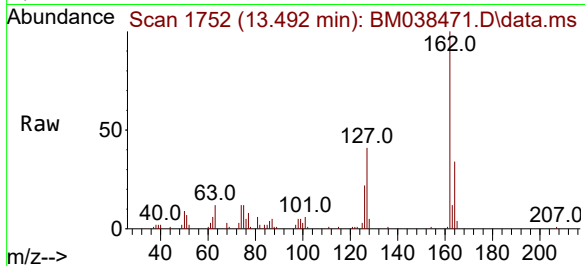




#47
2-Chloronaphthalene
Concen: 4.568 ng
RT: 13.492 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

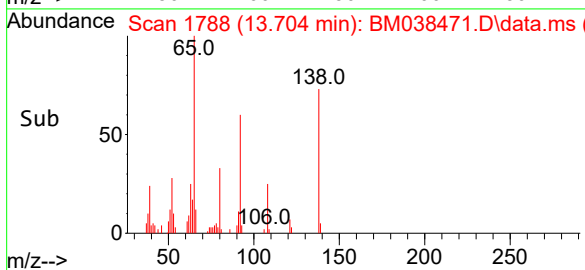
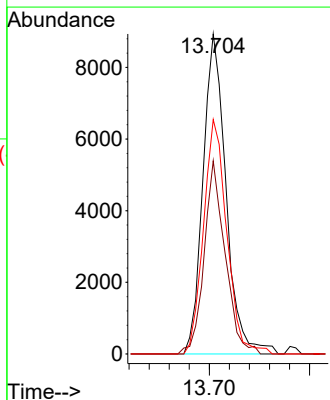
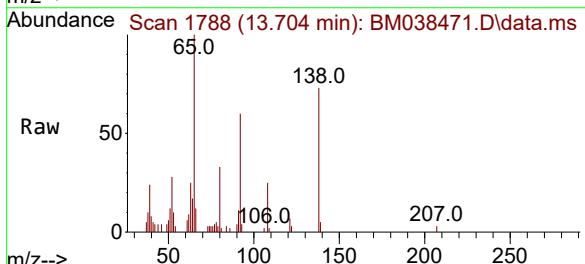
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

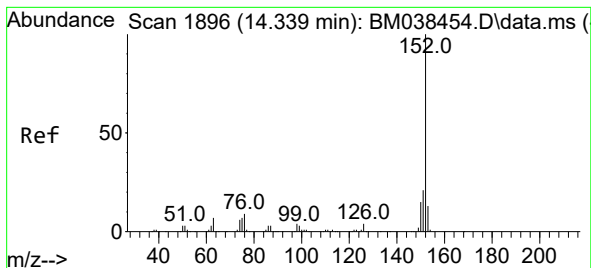
Tgt Ion:162 Resp: 44463
Ion Ratio Lower Upper
162 100
127 40.6 29.5 44.3
164 33.7 26.2 39.4



#48
2-Nitroaniline
Concen: 5.780 ng
RT: 13.704 min Scan# 1788
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion: 65 Resp: 14276
Ion Ratio Lower Upper
65 100
92 60.3 47.6 71.4
138 73.3 65.8 98.8





#49

Acenaphthylene

Concen: 4.236 ng

RT: 14.333 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

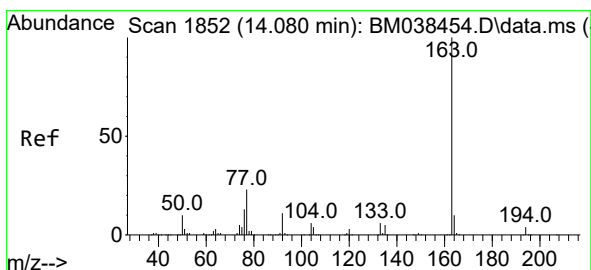
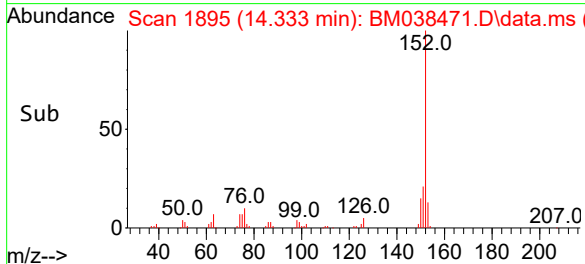
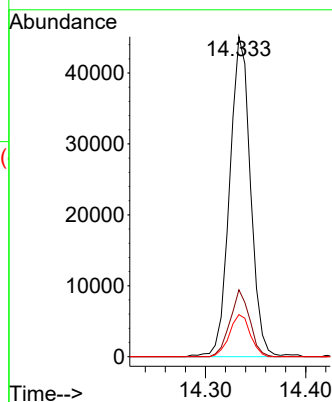
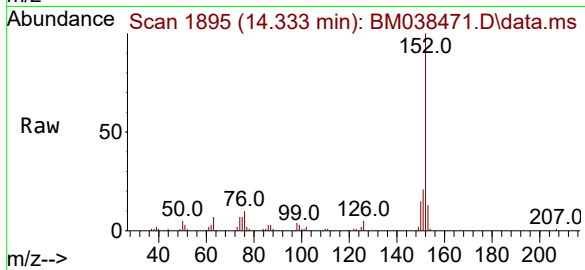
Tgt Ion:152 Resp: 65010

Ion Ratio Lower Upper

152 100

151 20.9 16.4 24.6

153 13.2 10.6 15.8



#50

Dimethylphthalate

Concen: 4.301 ng

RT: 14.069 min Scan# 1850

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

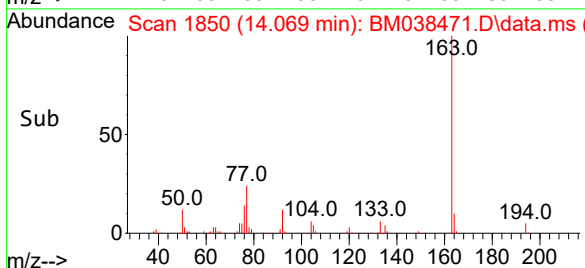
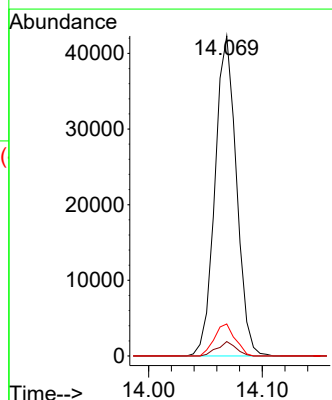
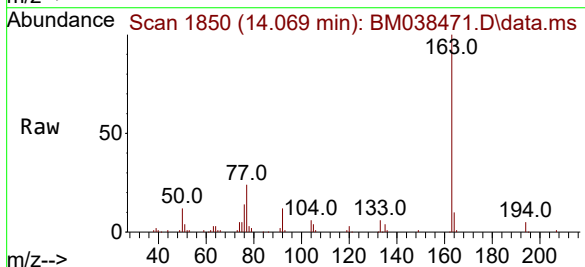
Tgt Ion:163 Resp: 55563

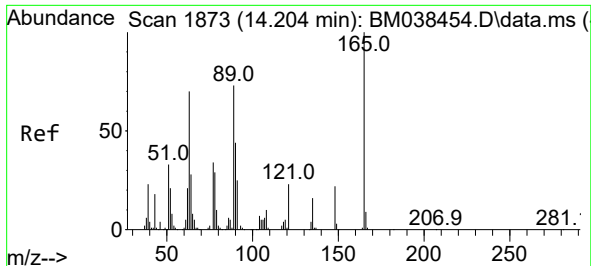
Ion Ratio Lower Upper

163 100

194 4.5 3.6 5.4

164 10.0 7.8 11.8





#51

2,6-Dinitrotoluene

Concen: 3.911 ng

RT: 14.192 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

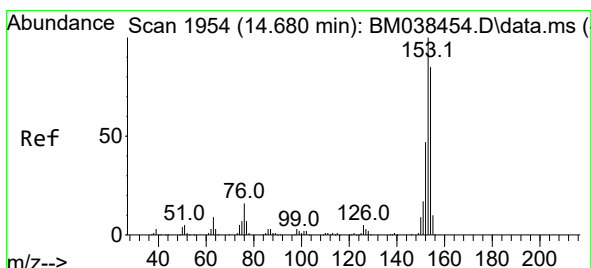
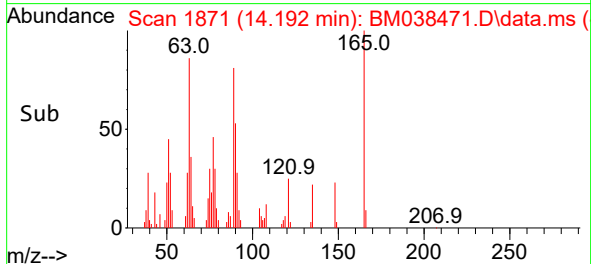
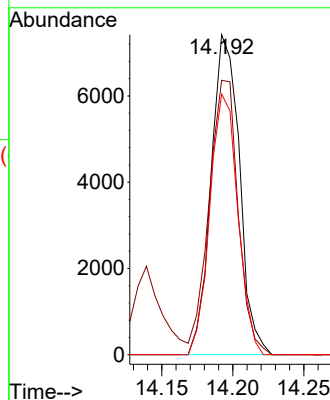
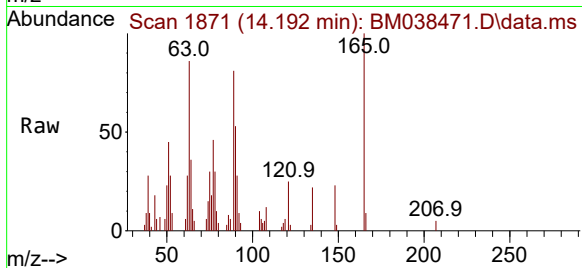
Tgt Ion:165 Resp: 10278

Ion Ratio Lower Upper

165 100

63 85.7 60.9 91.3

89 81.4 58.6 87.8



#52

Acenaphthene

Concen: 4.333 ng

RT: 14.674 min Scan# 1953

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

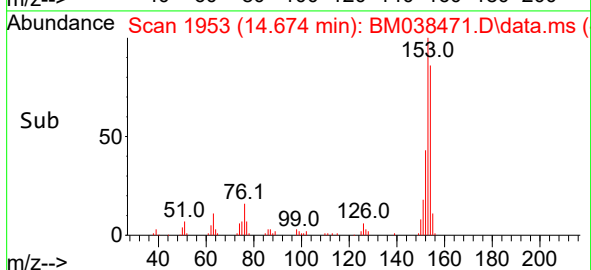
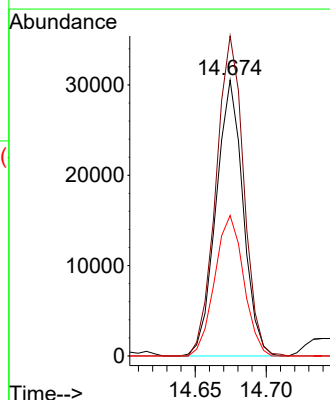
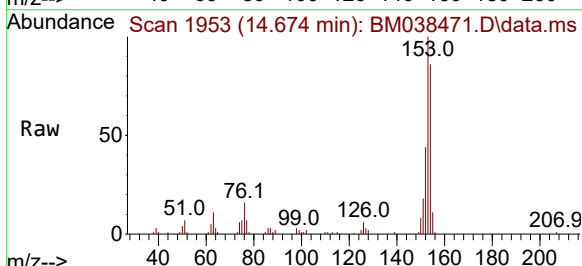
Tgt Ion:154 Resp: 40408

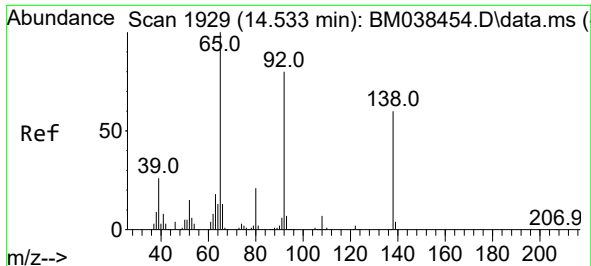
Ion Ratio Lower Upper

154 100

153 116.0 93.8 140.6

152 50.9 44.2 66.4

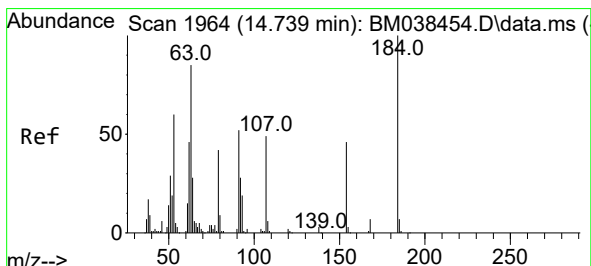
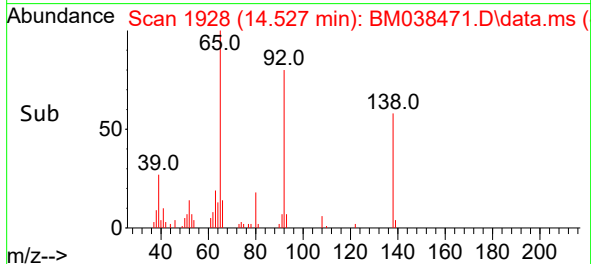
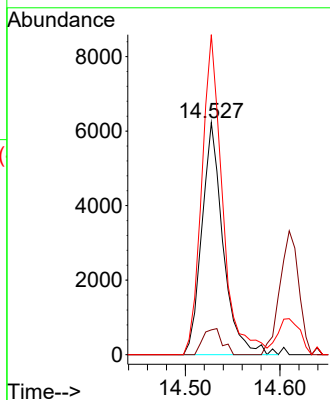
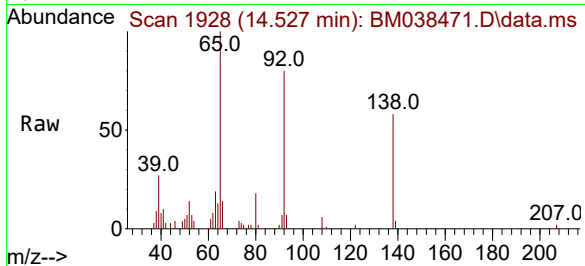




#53
3-Nitroaniline
Concen: 5.823 ng
RT: 14.527 min Scan# 1928
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

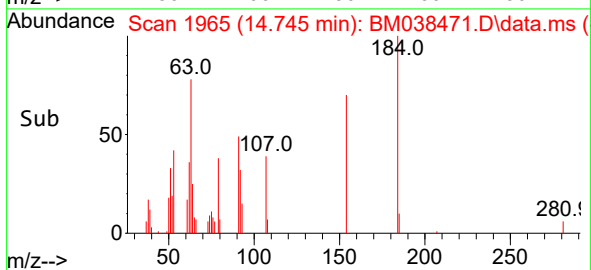
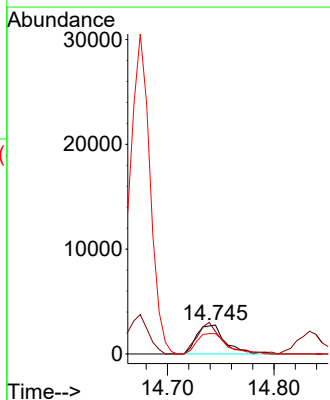
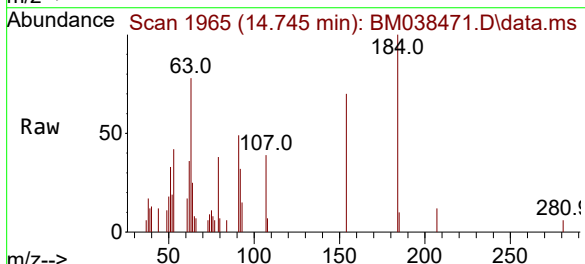
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

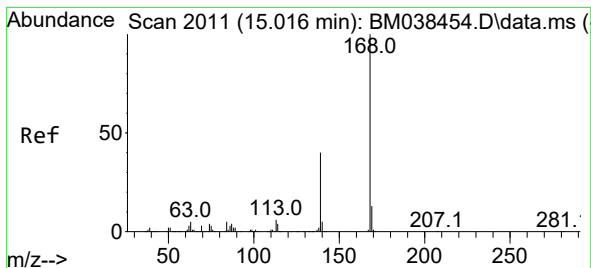
Tgt Ion:138 Resp: 9715
Ion Ratio Lower Upper
138 100
108 10.7 8.9 13.3
92 137.9 106.4 159.6



#54
2,4-Dinitrophenol
Concen: 7.699 ng
RT: 14.745 min Scan# 1965
Delta R.T. 0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:184 Resp: 5137
Ion Ratio Lower Upper
184 100
63 77.6 70.0 105.0
154 70.1 55.6 83.4





#55

Dibenzofuran

Concen: 4.318 ng

RT: 15.010 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

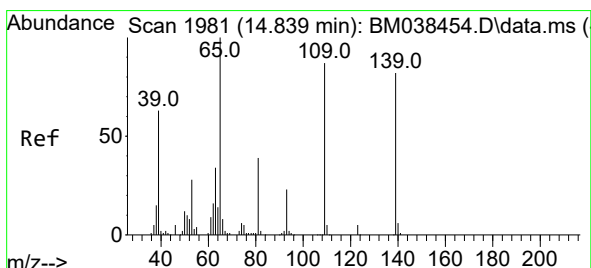
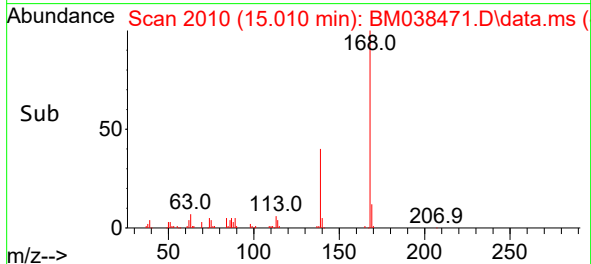
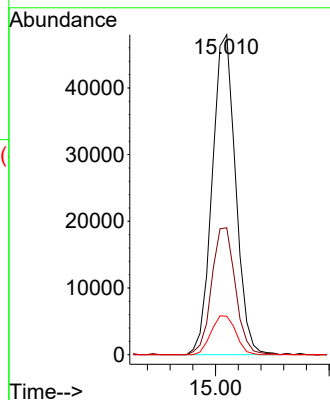
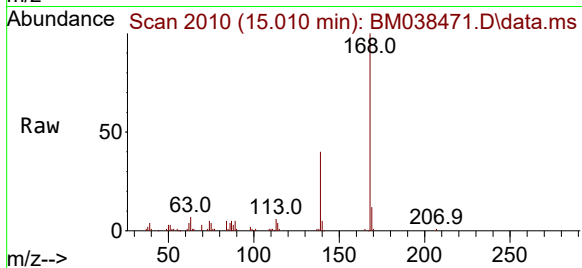
Tgt Ion:168 Resp: 68570

Ion Ratio Lower Upper

168 100

139 39.6 31.9 47.9

169 12.0 10.5 15.7



#56

4-Nitrophenol

Concen: 6.812 ng

RT: 14.833 min Scan# 1980

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

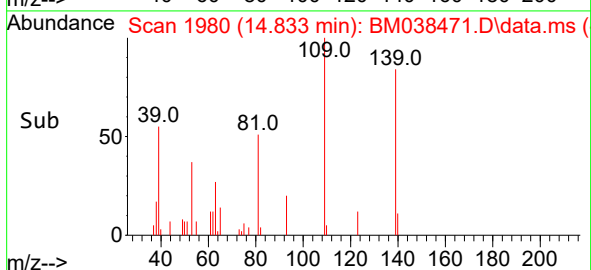
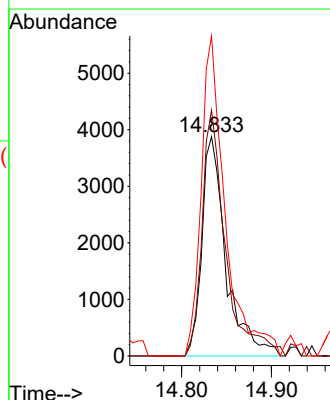
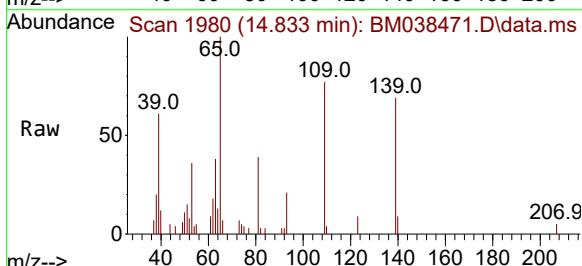
Tgt Ion:139 Resp: 7229

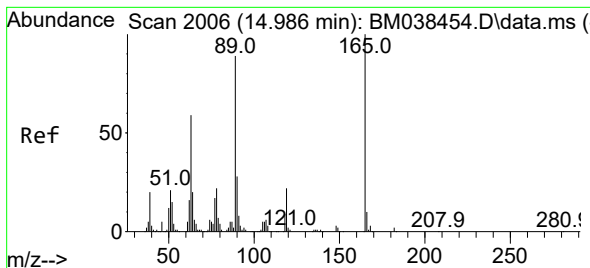
Ion Ratio Lower Upper

139 100

109 112.2 86.0 126.0

65 145.9 102.7 142.7#





#57

2,4-Dinitrotoluene

Concen: 3.631 ng

RT: 14.980 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM038471.D

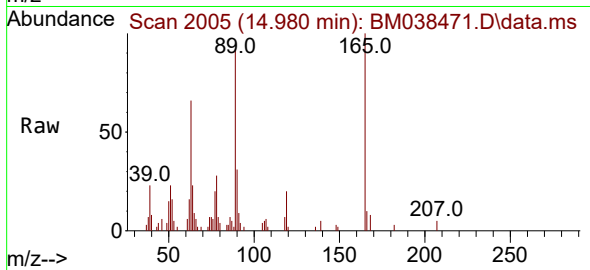
Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022



Tgt Ion:165 Resp: 13264

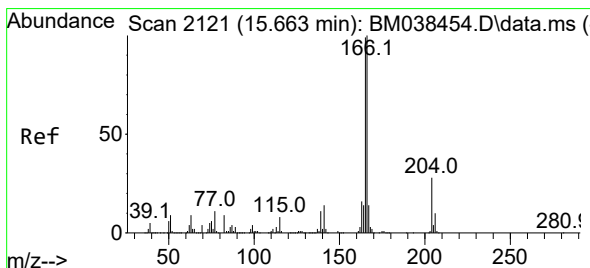
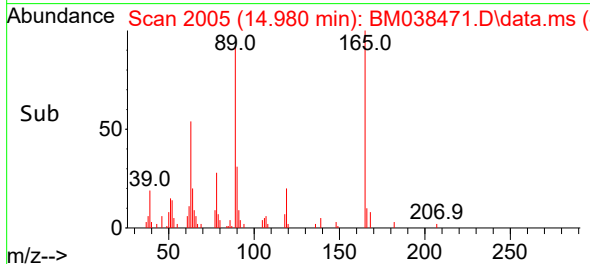
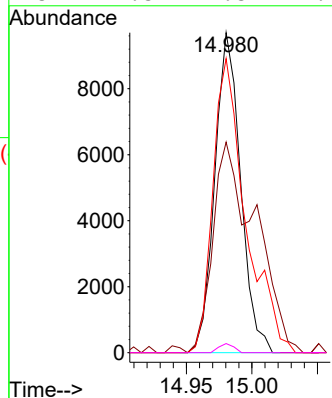
Ion Ratio Lower Upper

165 100

63 65.8 47.7 71.5

89 91.9 71.5 107.3

182 2.8 1.8 2.6#



#58

Fluorene

Concen: 3.987 ng

RT: 15.657 min Scan# 2120

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

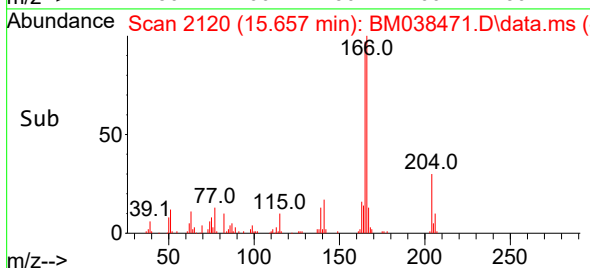
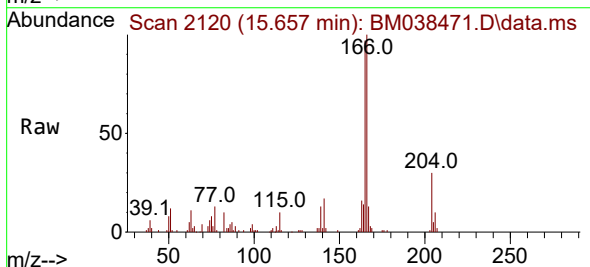
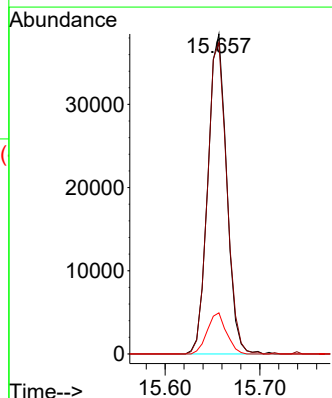
Tgt Ion:166 Resp: 52899

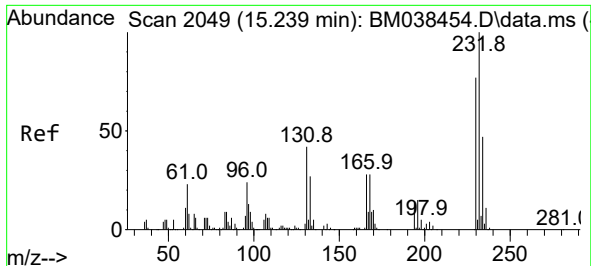
Ion Ratio Lower Upper

166 100

165 97.3 79.2 118.8

167 12.9 11.0 16.4





#59

2,3,4,6-Tetrachlorophenol

Concen: 3.752 ng

RT: 15.233 min Scan# 2049

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

Tgt Ion:232 Resp: 14794

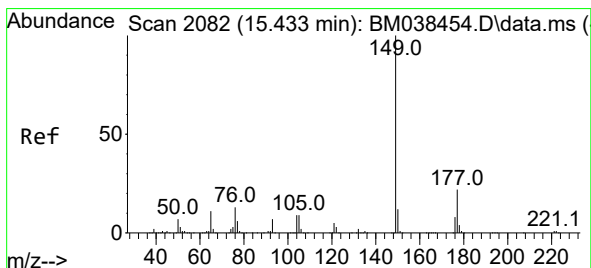
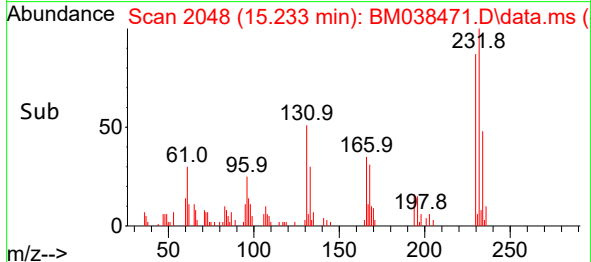
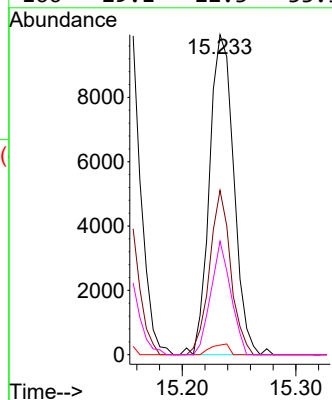
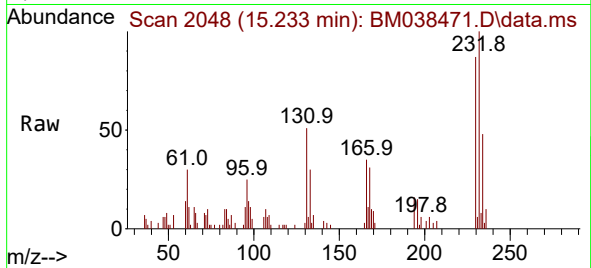
Ion Ratio Lower Upper

232 100

131 44.9 33.8 50.6

130 2.5 1.9 2.9

166 29.1 22.3 33.5



#60

Diethylphthalate

Concen: 4.240 ng

RT: 15.421 min Scan# 2080

Delta R.T. -0.012 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

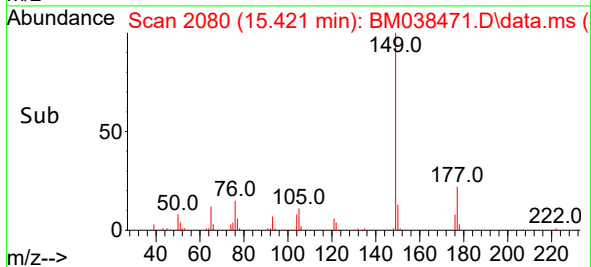
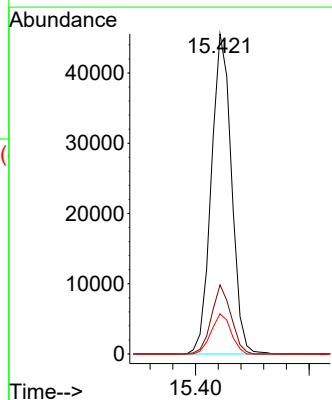
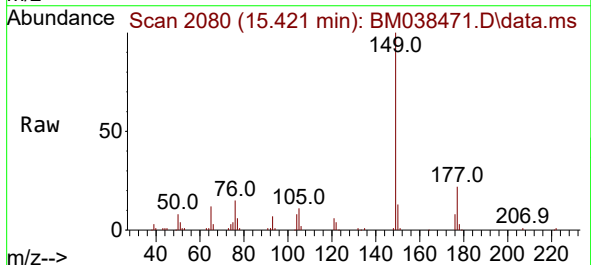
Tgt Ion:149 Resp: 56186

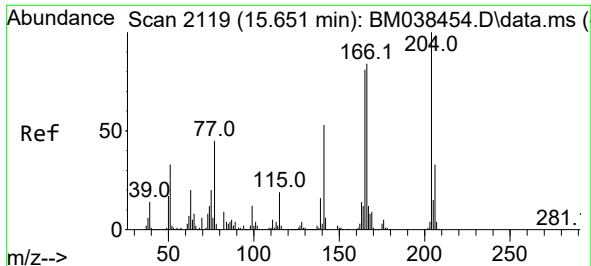
Ion Ratio Lower Upper

149 100

177 21.6 17.8 26.6

150 12.6 9.5 14.3

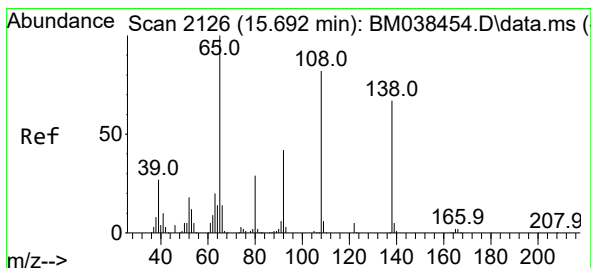
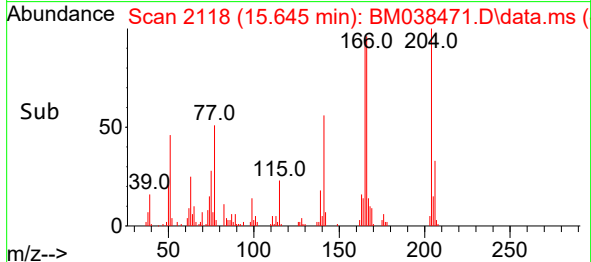
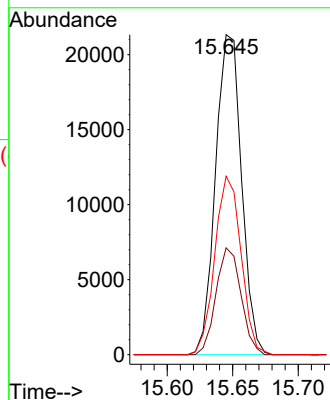
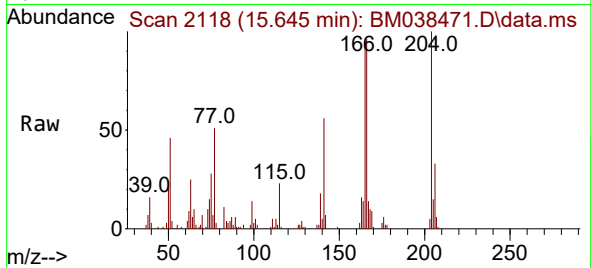




#61
4-Chlorophenyl-phenylether
Concen: 4.040 ng
RT: 15.645 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

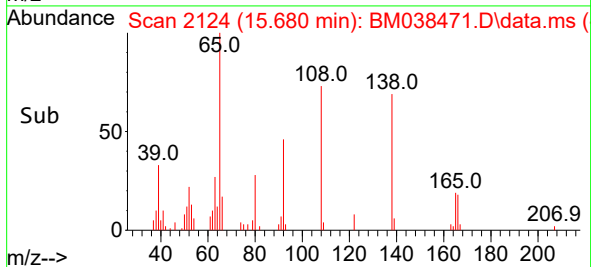
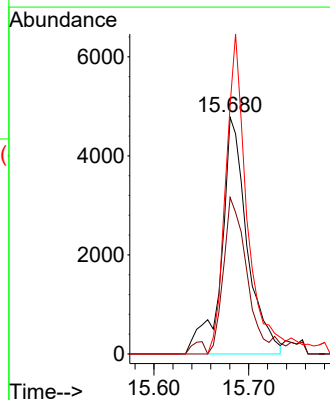
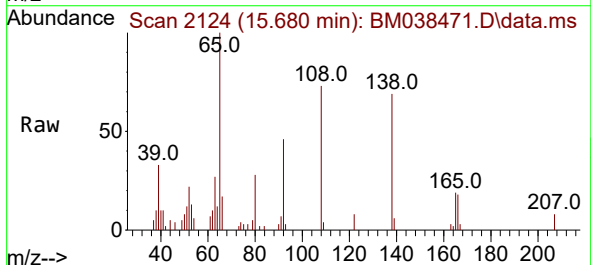
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

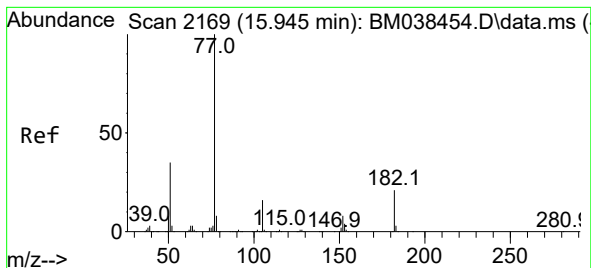
Tgt Ion:204 Resp: 29422
Ion Ratio Lower Upper
204 100
206 33.4 26.2 39.4
141 55.8 42.5 63.7



#62
4-Nitroaniline
Concen: 5.666 ng
RT: 15.680 min Scan# 2124
Delta R.T. -0.012 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:138 Resp: 8959
Ion Ratio Lower Upper
138 100
92 66.1 42.1 82.1
108 105.1 102.5 142.5





#63

Azobenzene

Concen: 4.369 ng

RT: 15.939 min Scan# 2169

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

Tgt Ion: 77 Resp: 63705

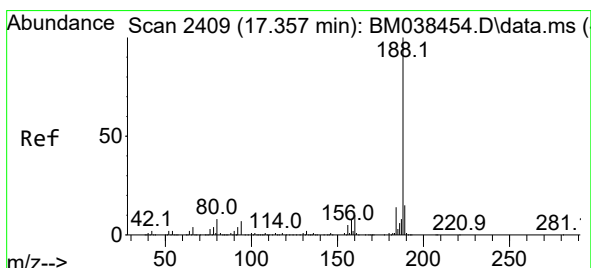
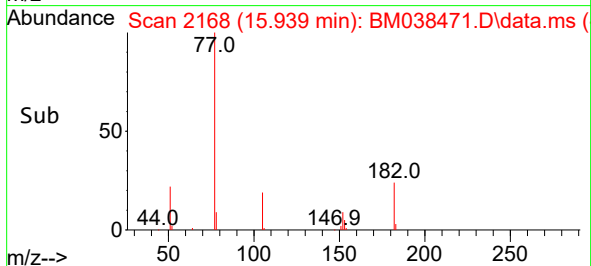
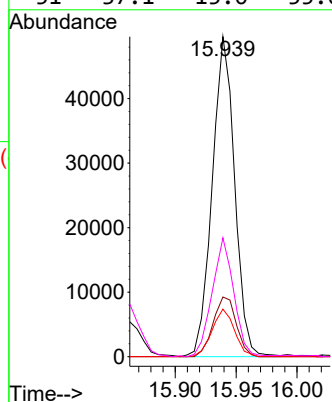
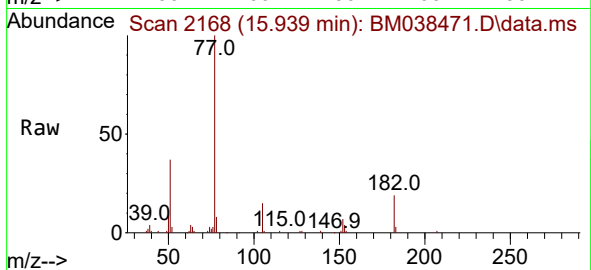
Ion Ratio Lower Upper

77 100

182 18.6 1.1 41.1

105 14.9 0.0 36.4

51 37.1 15.0 55.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.351 min Scan# 2408

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

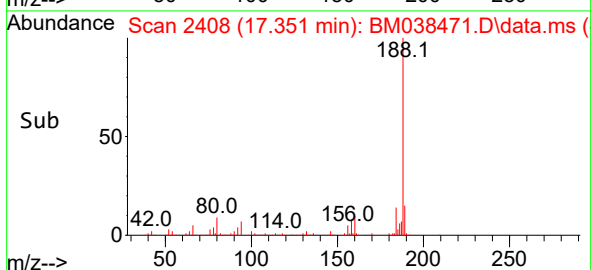
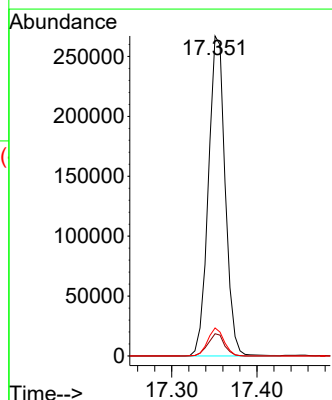
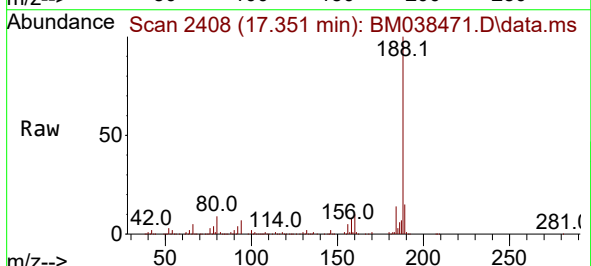
Tgt Ion: 188 Resp: 366609

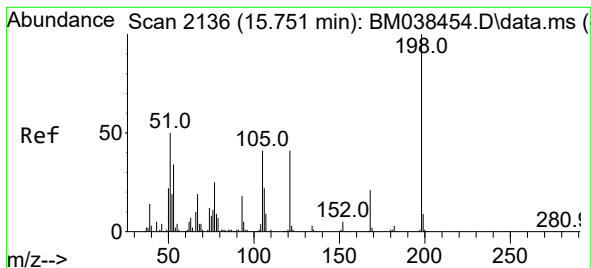
Ion Ratio Lower Upper

188 100

94 7.0 5.4 8.0

80 8.8 6.5 9.7

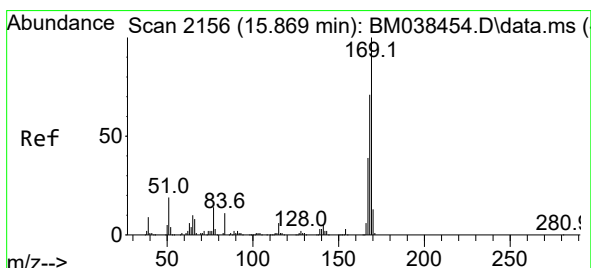
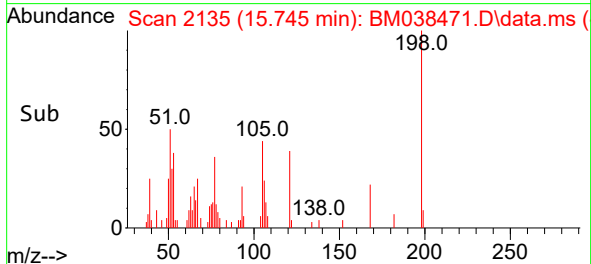
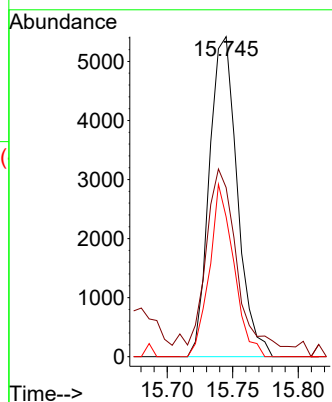
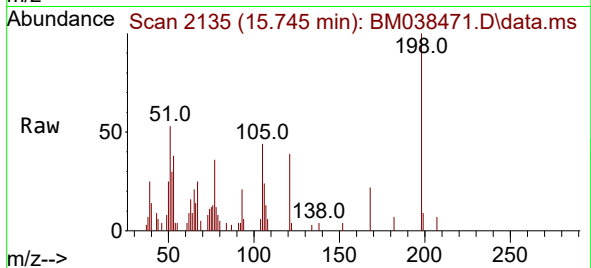




#65
4,6-Dinitro-2-methylphenol
Concen: 3.225 ng
RT: 15.745 min Scan# 2135
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

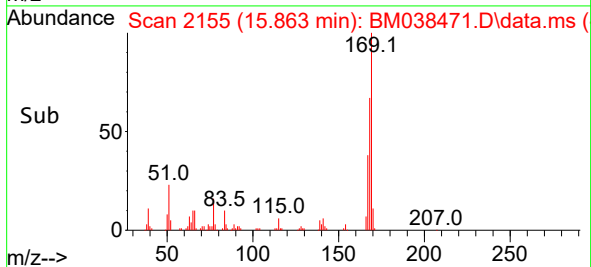
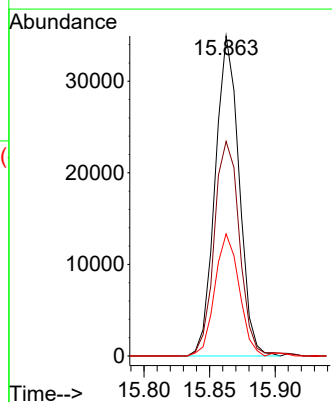
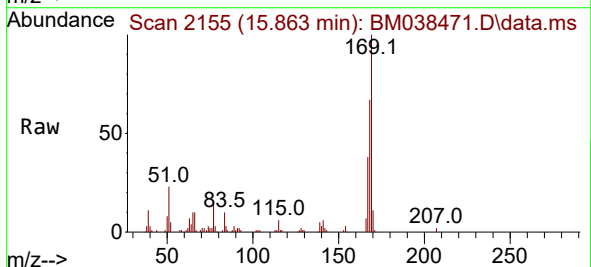
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

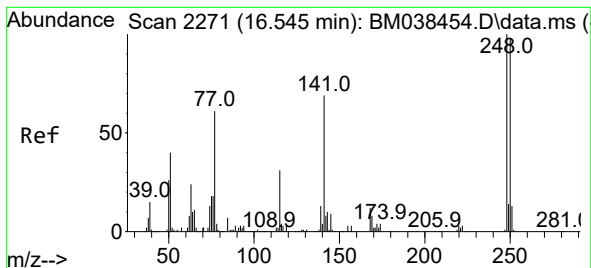
Tgt Ion:198 Resp: 8024
Ion Ratio Lower Upper
198 100
51 52.9 31.6 71.6
105 43.7 21.5 61.5



#66
n-Nitrosodiphenylamine
Concen: 4.117 ng
RT: 15.863 min Scan# 2155
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:169 Resp: 44282
Ion Ratio Lower Upper
169 100
168 67.0 56.6 85.0
167 38.1 31.1 46.7

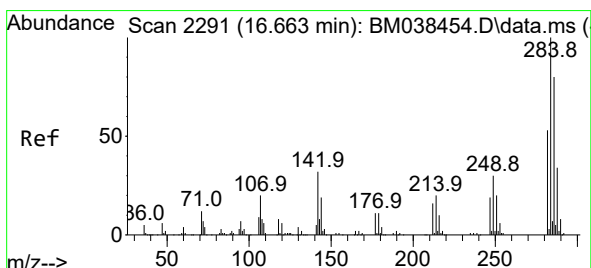
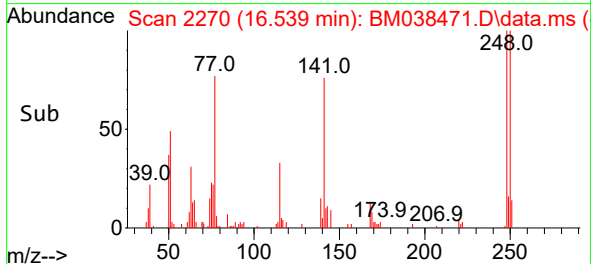
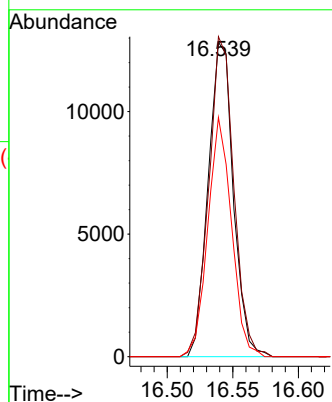
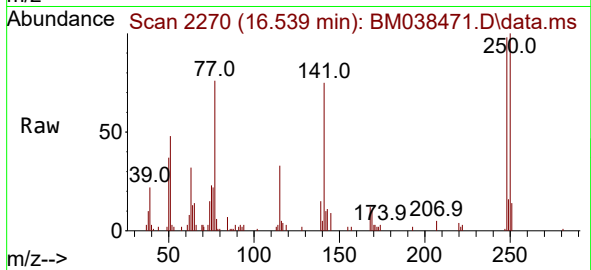




#67
4-Bromophenyl-phenylether
Concen: 4.033 ng
RT: 16.539 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

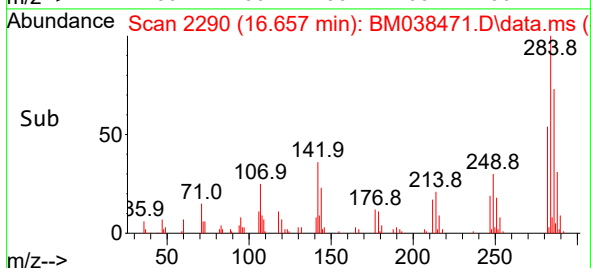
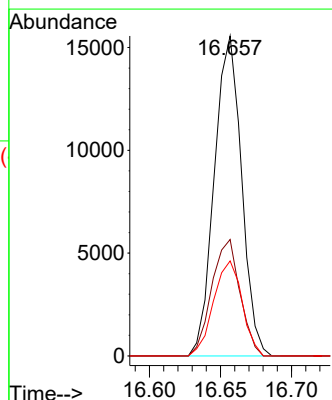
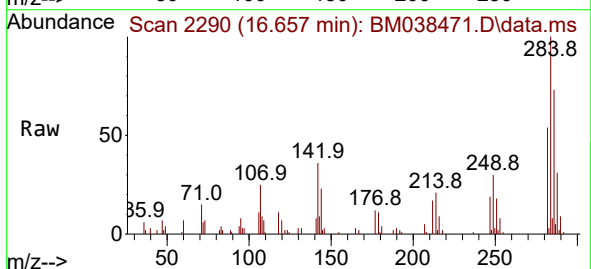
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT3-2022

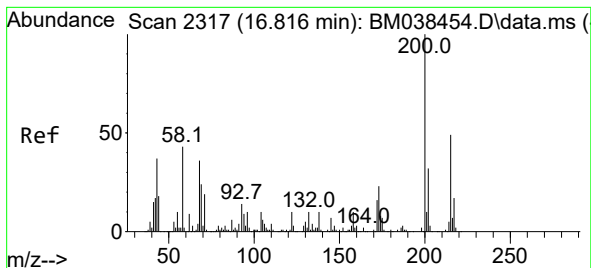
Tgt Ion:248 Resp: 17102
Ion Ratio Lower Upper
248 100
250 101.8 78.3 117.5
141 76.1 55.1 82.7



#68
Hexachlorobenzene
Concen: 4.365 ng
RT: 16.657 min Scan# 2290
Delta R.T. -0.006 min
Lab File: BM038471.D
Acq: 17 Jan 2023 19:21

Tgt Ion:284 Resp: 20726
Ion Ratio Lower Upper
284 100
142 36.4 26.0 39.0
249 32.8 23.8 35.8





#69

Atrazine

Concen: 5.215 ng

RT: 16.810 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

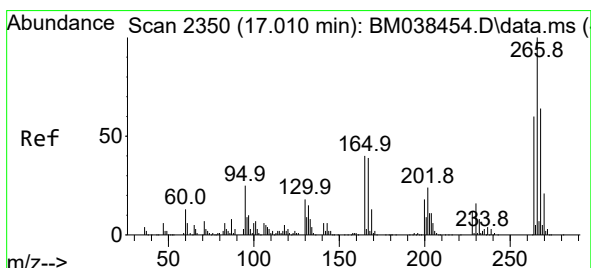
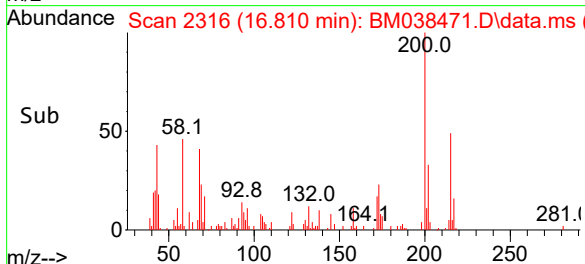
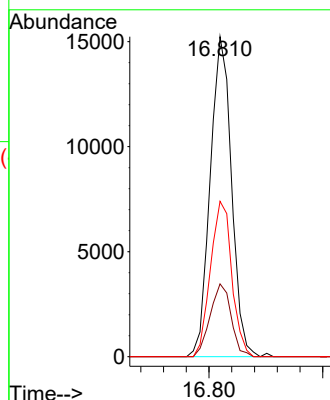
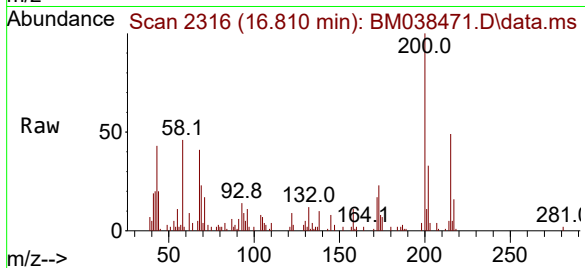
Tgt Ion:200 Resp: 19837

Ion Ratio Lower Upper

200 100

173 22.7 3.4 43.4

215 48.6 29.3 69.3



#70

Pentachlorophenol

Concen: 3.244 ng

RT: 17.004 min Scan# 2349

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

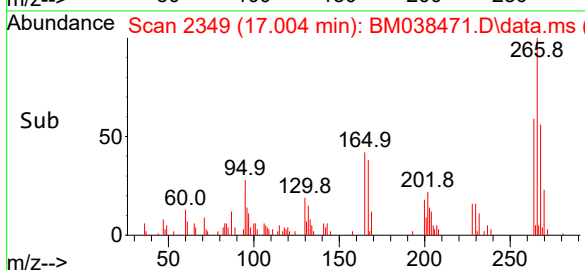
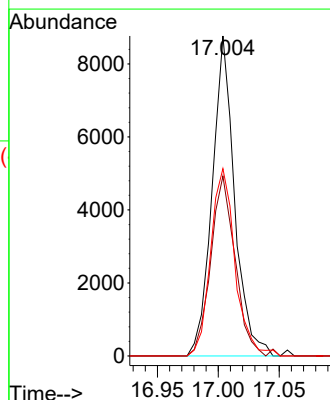
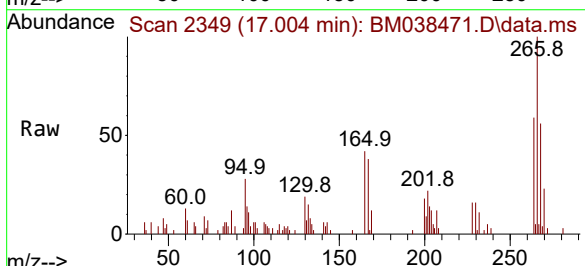
Tgt Ion:266 Resp: 11246

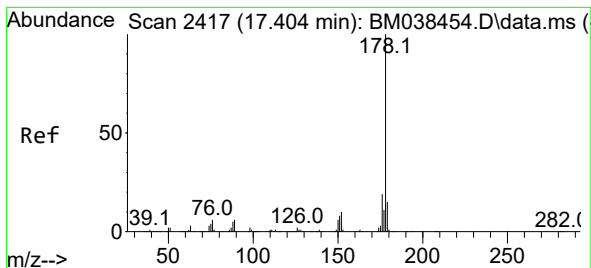
Ion Ratio Lower Upper

266 100

268 56.2 51.4 77.0

264 58.6 48.2 72.2





#71

Phenanthrene

Concen: 4.272 ng

RT: 17.398 min Scan# 2416

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

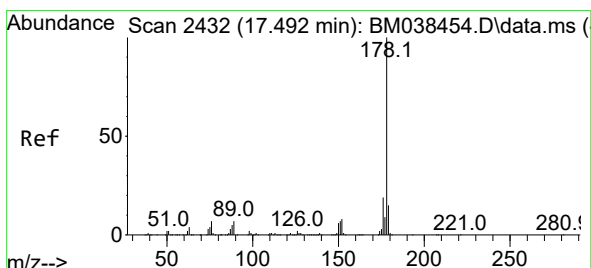
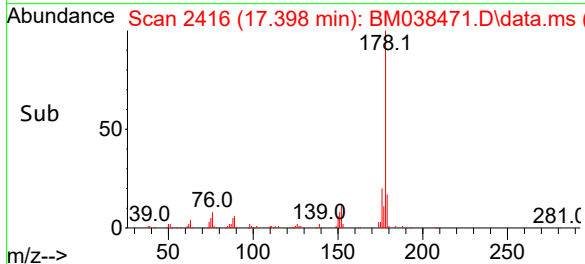
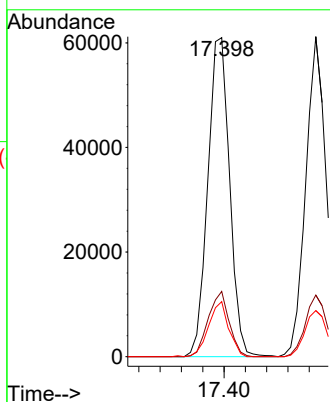
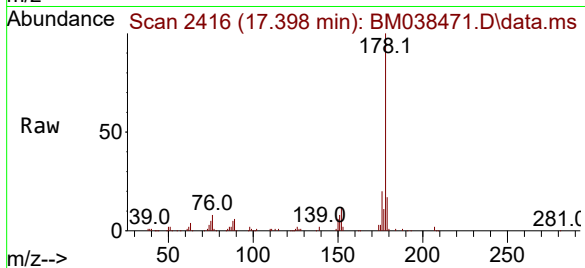
Tgt Ion:178 Resp: 86641

Ion Ratio Lower Upper

178 100

176 20.4 15.4 23.0

179 17.3 12.1 18.1



#72

Anthracene

Concen: 4.053 ng

RT: 17.486 min Scan# 2431

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

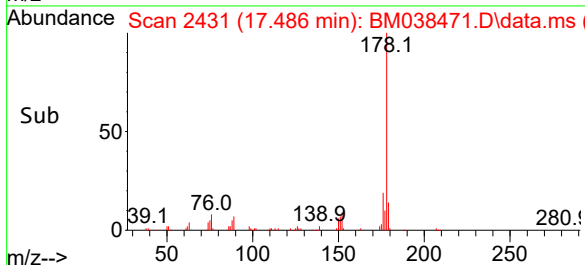
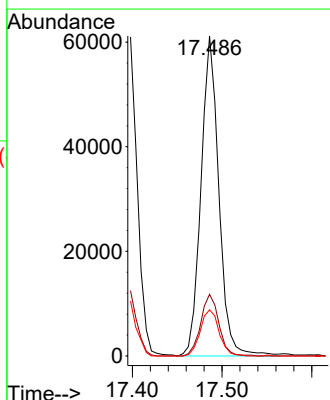
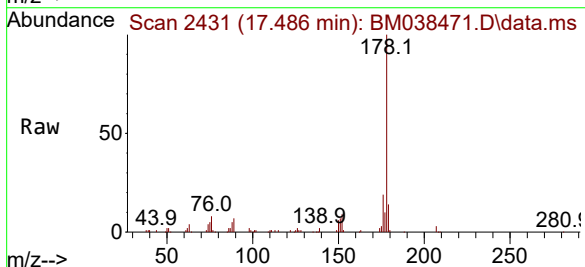
Tgt Ion:178 Resp: 84478

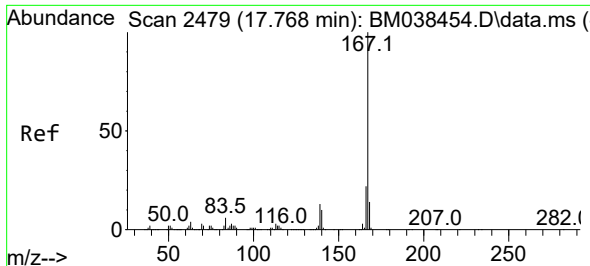
Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

179 14.4 12.2 18.2

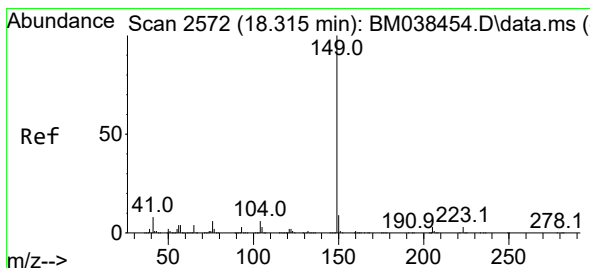
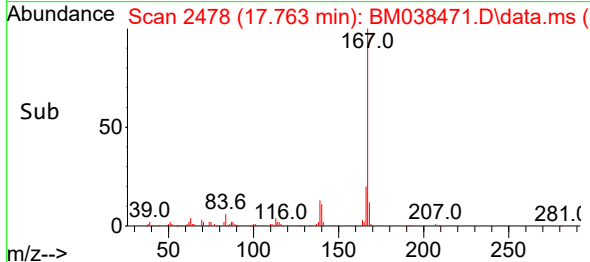
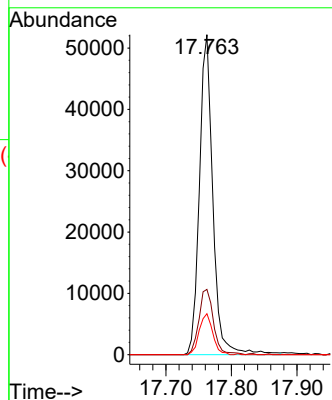
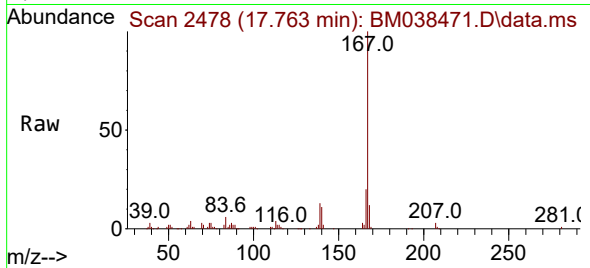




#73
 Carbazole
 Concen: 4.086 ng
 RT: 17.763 min Scan# 2479
 Delta R.T. -0.006 min
 Lab File: BM038471.D
 Acq: 17 Jan 2023 19:21

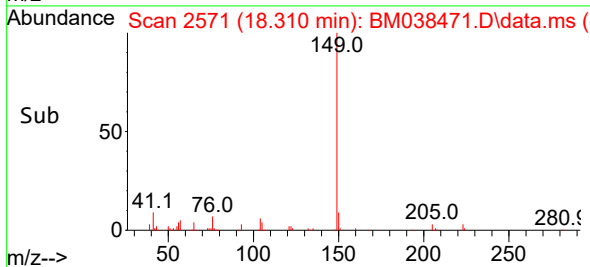
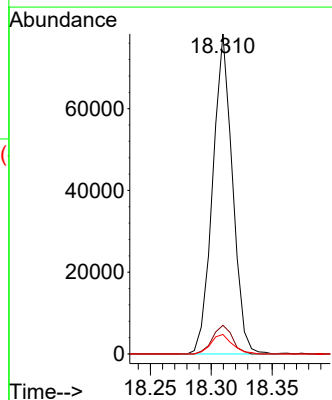
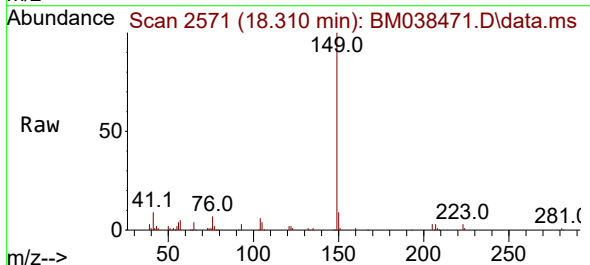
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT3-2022

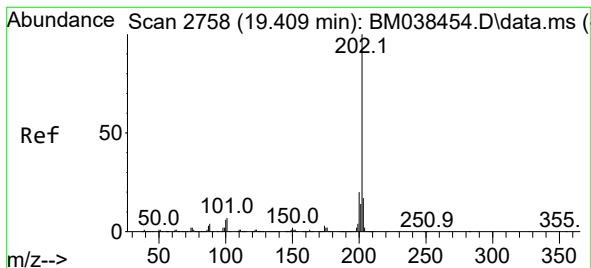
Tgt Ion:167 Resp: 74473
 Ion Ratio Lower Upper
 167 100
 166 20.4 17.4 26.0
 139 12.8 10.1 15.1



#74
 Di-n-butylphthalate
 Concen: 4.093 ng
 RT: 18.310 min Scan# 2571
 Delta R.T. -0.006 min
 Lab File: BM038471.D
 Acq: 17 Jan 2023 19:21

Tgt Ion:149 Resp: 88614
 Ion Ratio Lower Upper
 149 100
 150 8.9 7.4 11.2
 104 6.1 4.7 7.1





#75

Fluoranthene

Concen: 4.046 ng

RT: 19.404 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

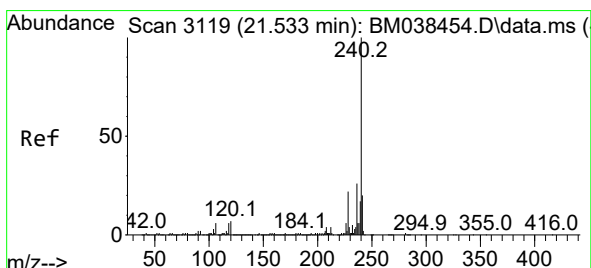
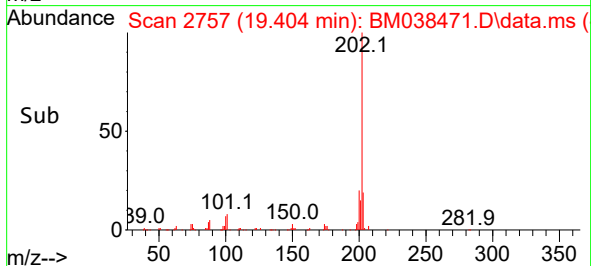
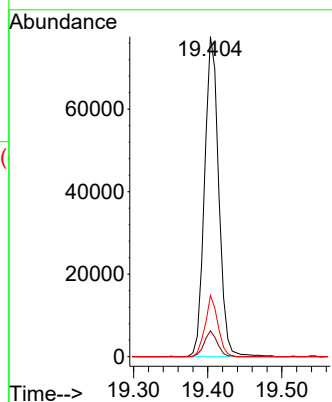
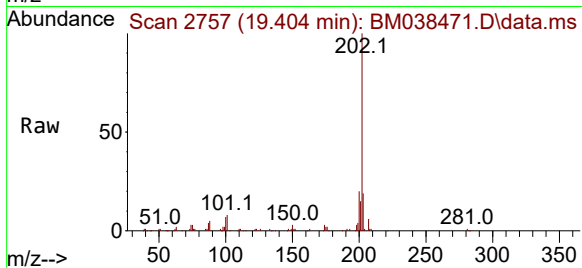
Tgt Ion:202 Resp: 103162

Ion Ratio Lower Upper

202 100

101 8.1 0.0 27.4

203 19.1 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.527 min Scan# 3118

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

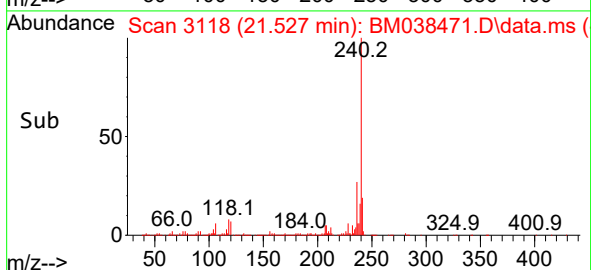
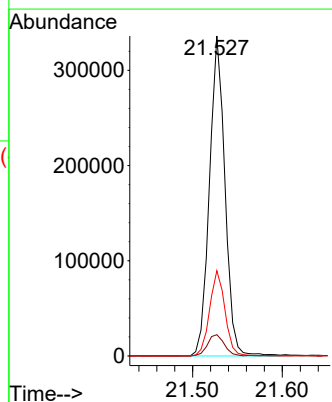
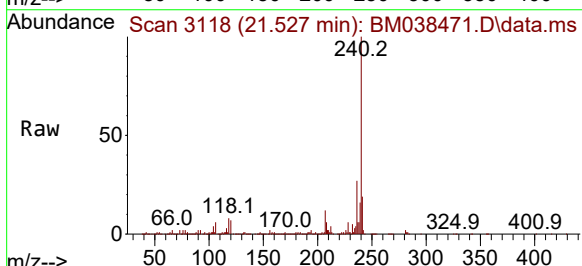
Tgt Ion:240 Resp: 403166

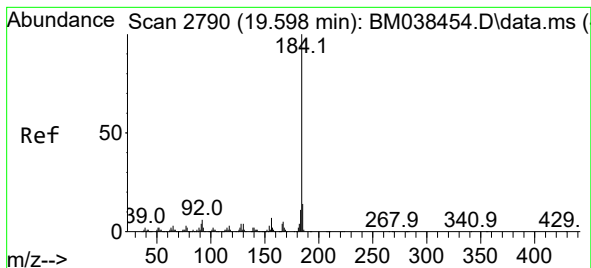
Ion Ratio Lower Upper

240 100

120 6.6 5.6 8.4

236 26.7 21.0 31.4





#77

Benzidine

Concen: 3.537 ng

RT: 19.598 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

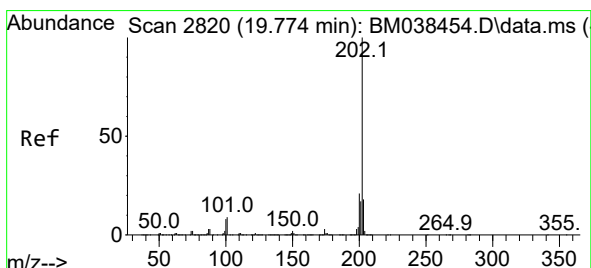
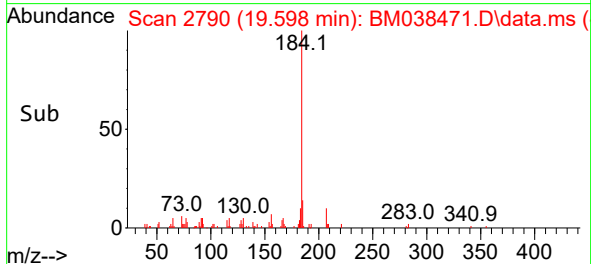
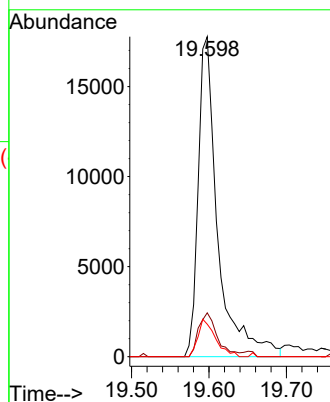
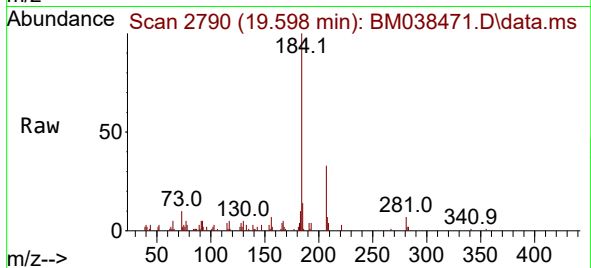
Tgt Ion:184 Resp: 31241

Ion Ratio Lower Upper

184 100

185 13.7 11.1 16.7

183 10.1 8.6 13.0



#78

Pyrene

Concen: 4.056 ng

RT: 19.768 min Scan# 2819

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

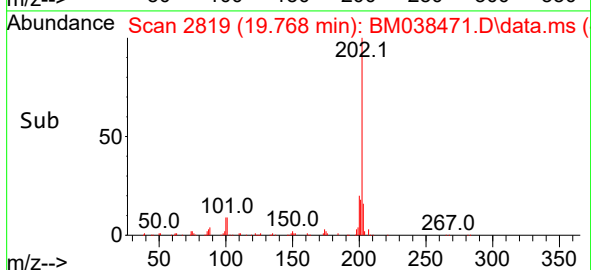
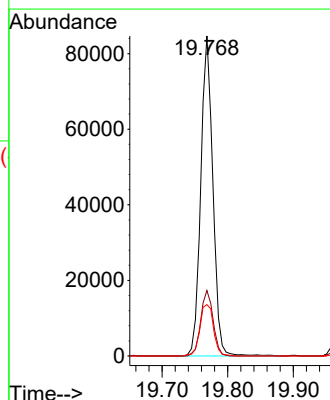
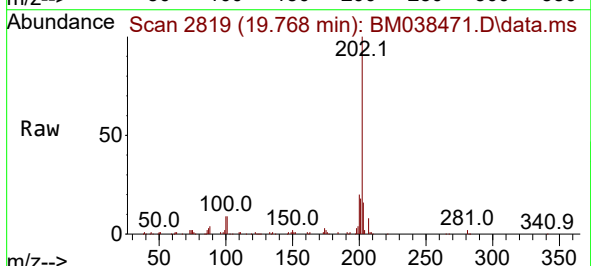
Tgt Ion:202 Resp: 108823

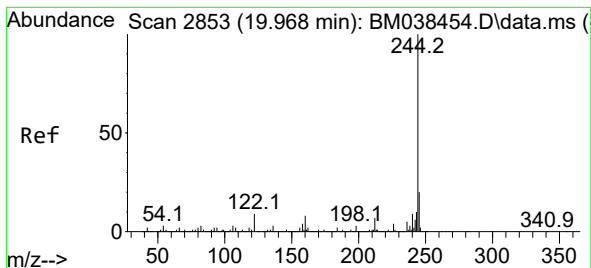
Ion Ratio Lower Upper

202 100

200 20.4 16.9 25.3

203 16.0 14.2 21.2





#79

Terphenyl-d14

Concen: 65.504 ng

RT: 19.968 min Scan# 2

Delta R.T. 0.000 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

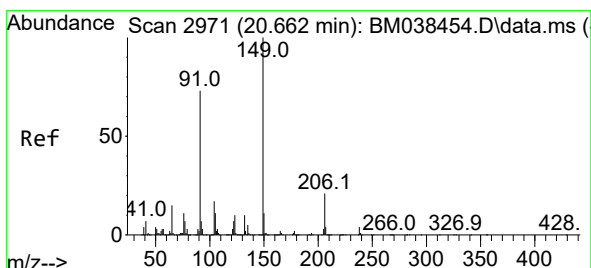
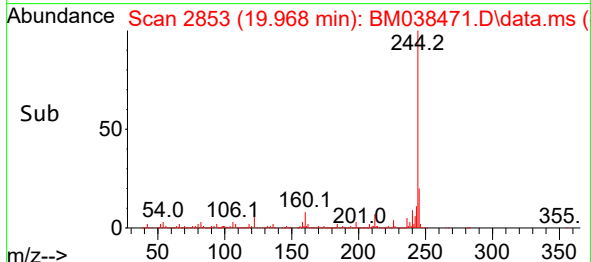
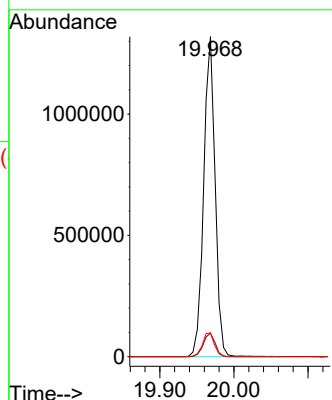
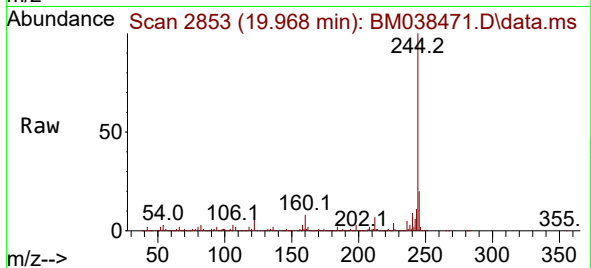
Tgt Ion:244 Resp: 1410708

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

122 7.4 7.1 10.7



#80

Butylbenzylphthalate

Concen: 4.251 ng

RT: 20.656 min Scan# 2970

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

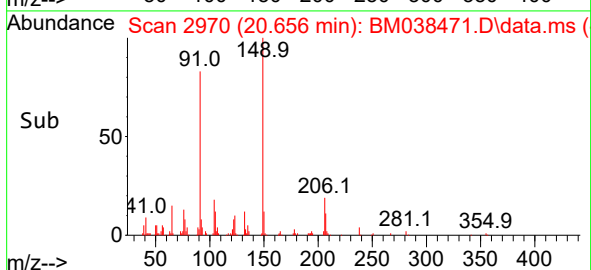
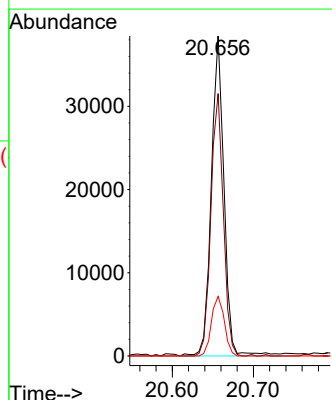
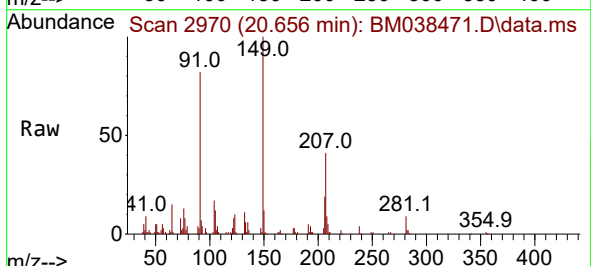
Tgt Ion:149 Resp: 41689

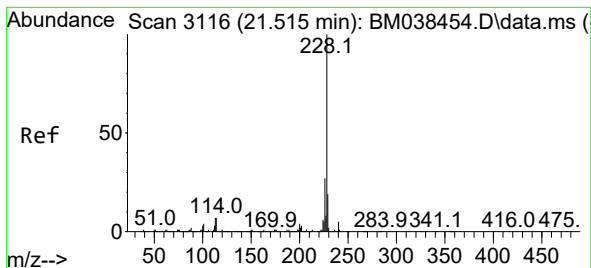
Ion Ratio Lower Upper

149 100

91 82.0 58.3 87.5

206 18.6 16.7 25.1





#81

Benzo(a)anthracene

Concen: 4.444 ng

RT: 21.509 min Scan# 3116

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

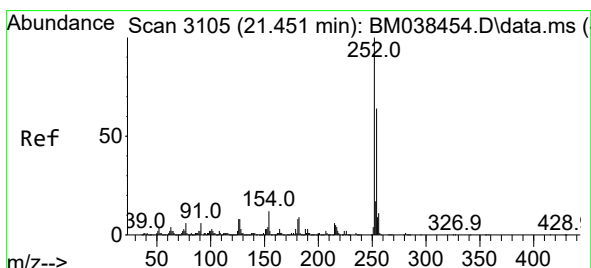
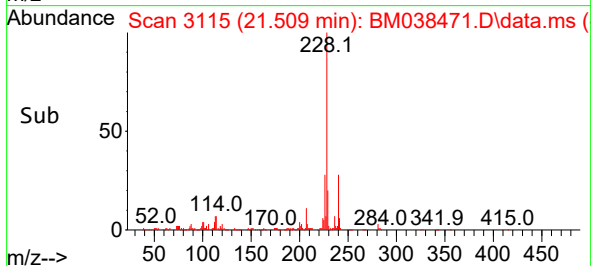
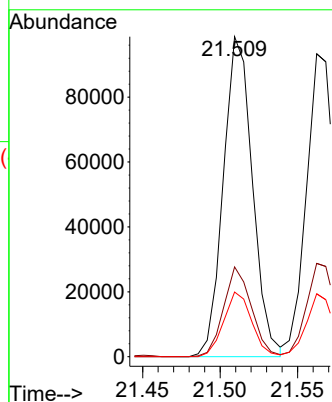
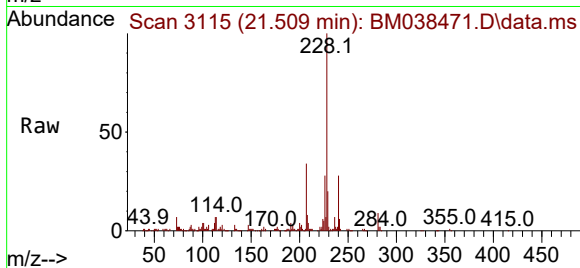
Tgt Ion:228 Resp: 128854

Ion Ratio Lower Upper

228 100

226 28.1 22.0 33.0

229 20.2 15.4 23.0



#82

3,3'-Dichlorobenzidine

Concen: 3.638 ng

RT: 21.445 min Scan# 3104

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

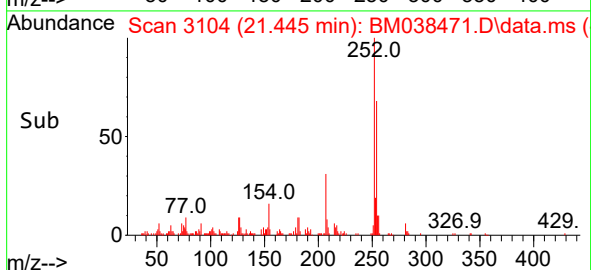
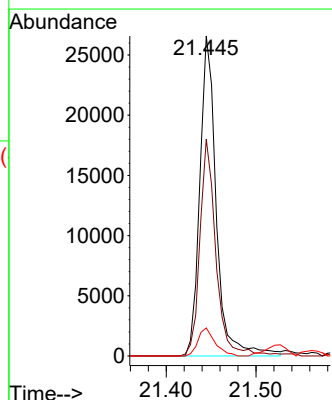
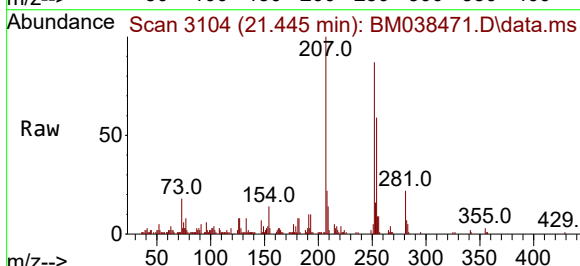
Tgt Ion:252 Resp: 33965

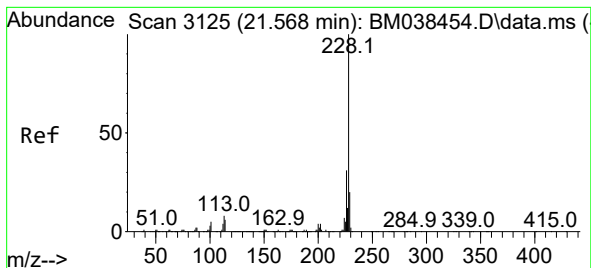
Ion Ratio Lower Upper

252 100

254 67.8 51.2 76.8

126 8.7 6.3 9.5





#83

Chrysene

Concen: 4.400 ng

RT: 21.562 min Scan# 3125

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

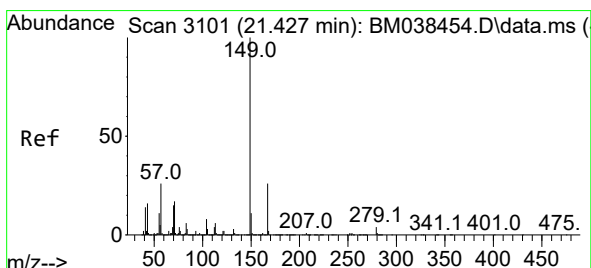
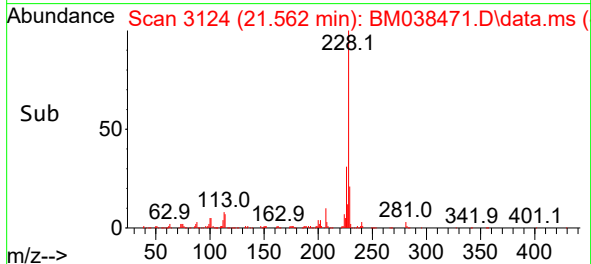
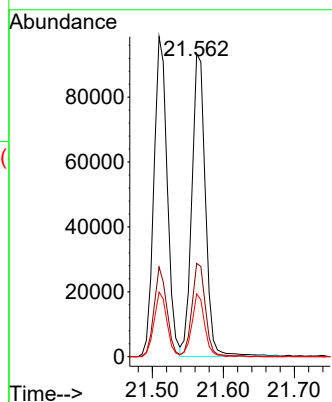
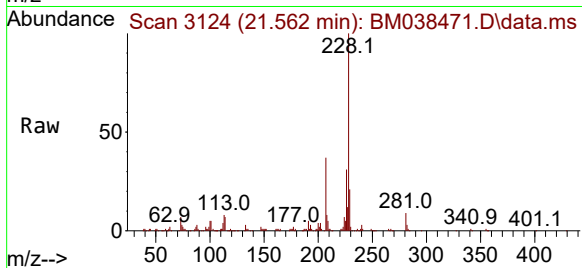
Tgt Ion:228 Resp: 123979

Ion Ratio Lower Upper

228 100

226 30.8 24.6 36.8

229 20.8 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.247 ng

RT: 21.421 min Scan# 3100

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

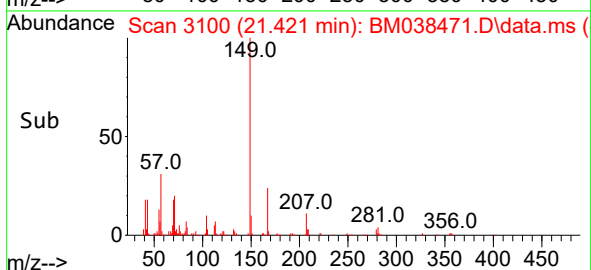
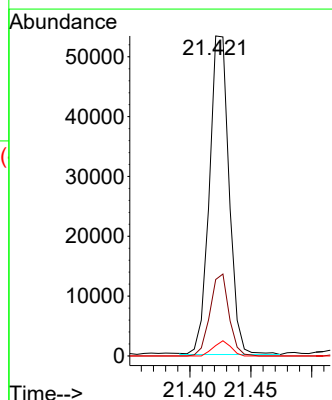
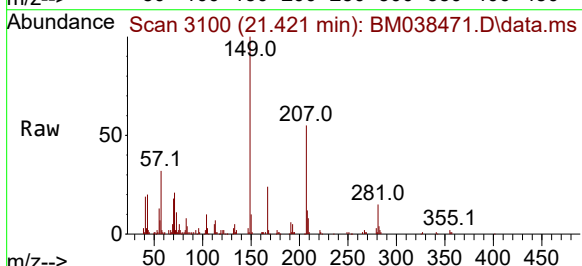
Tgt Ion:149 Resp: 59872

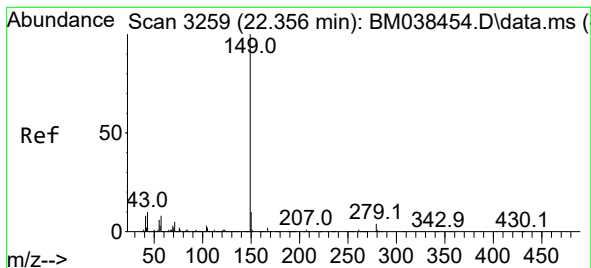
Ion Ratio Lower Upper

149 100

167 23.9 21.0 31.4

279 3.3 3.4 5.0#





#85

Di-n-octyl phthalate

Concen: 4.409 ng

RT: 22.350 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

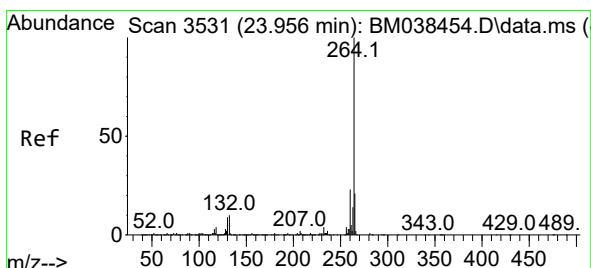
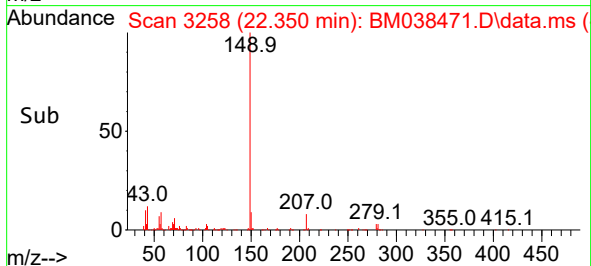
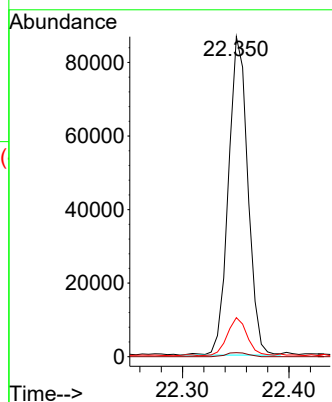
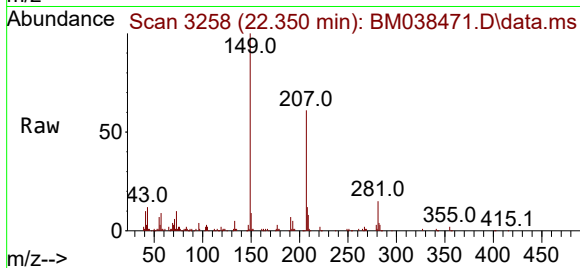
Tgt Ion:149 Resp: 109368

Ion Ratio Lower Upper

149 100

167 1.5 1.3 1.9

43 12.2 8.4 12.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.950 min Scan# 3530

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

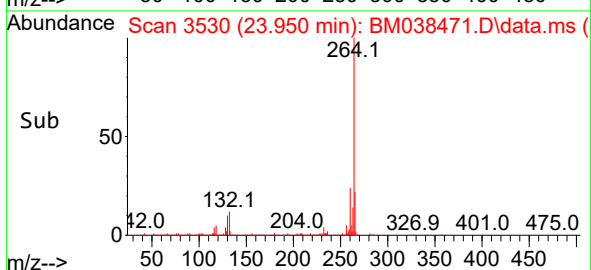
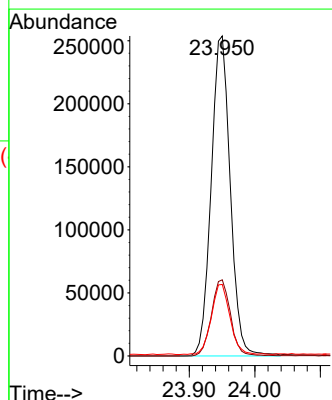
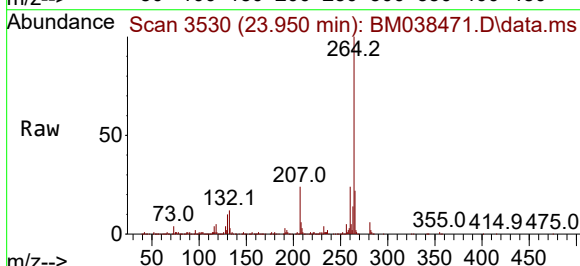
Tgt Ion:264 Resp: 512933

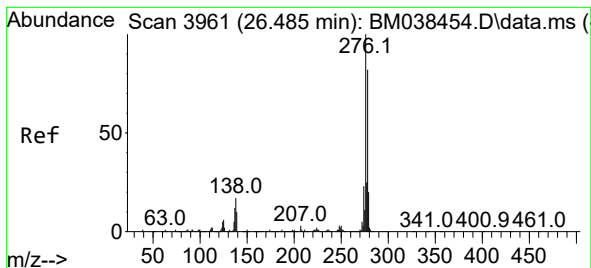
Ion Ratio Lower Upper

264 100

260 23.8 18.2 27.4

265 22.3 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.185 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.024 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

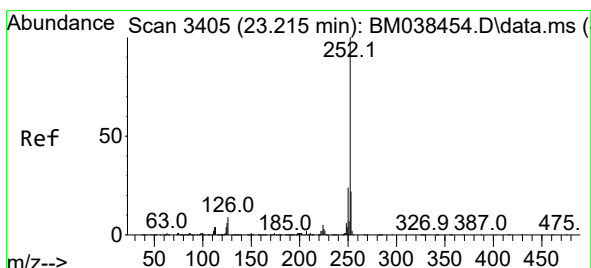
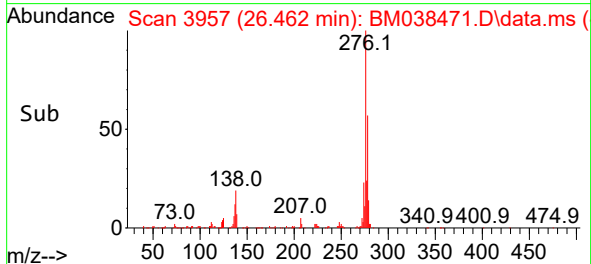
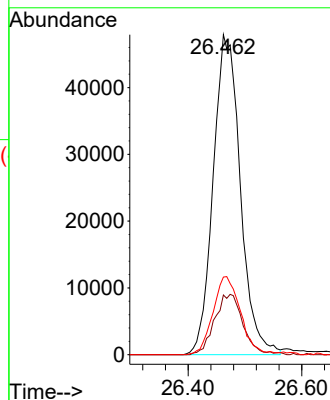
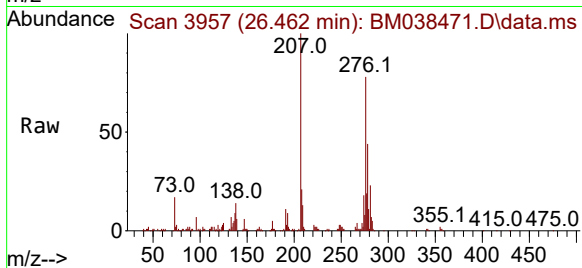
Tgt Ion:276 Resp: 158877

Ion Ratio Lower Upper

276 100

138 19.8 13.4 20.2

277 24.7 19.8 29.8



#88

Benzo(b)fluoranthene

Concen: 4.409 ng

RT: 23.209 min Scan# 3404

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

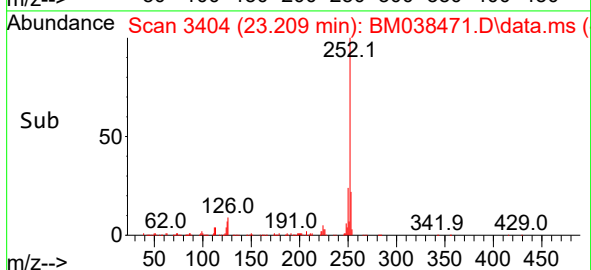
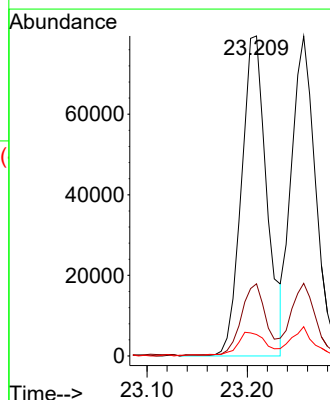
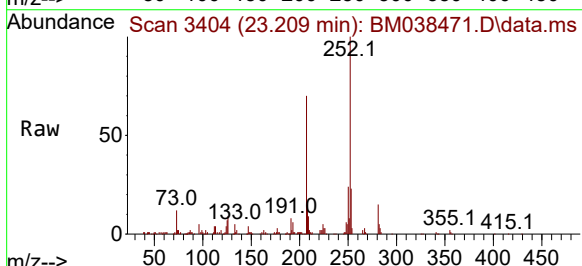
Tgt Ion:252 Resp: 140242

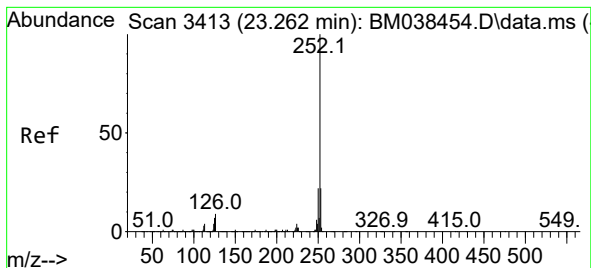
Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

125 6.7 5.1 7.7





#89

Benzo(k)fluoranthene

Concen: 4.264 ng

RT: 23.209 min Scan# 3413

Delta R.T. -0.053 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

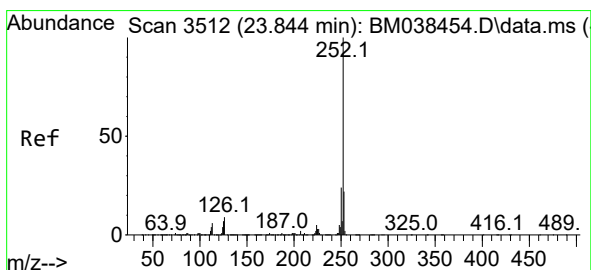
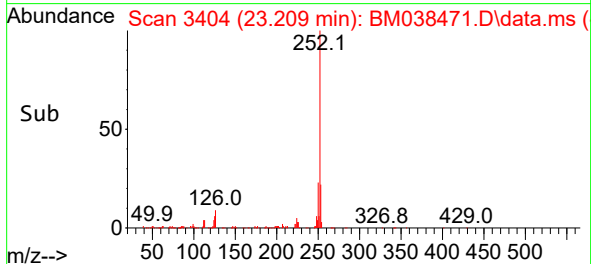
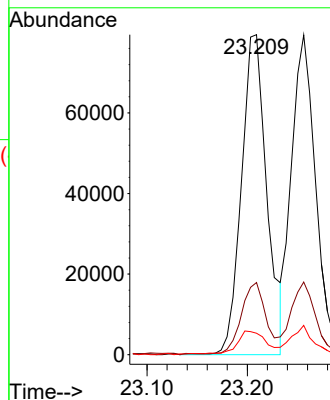
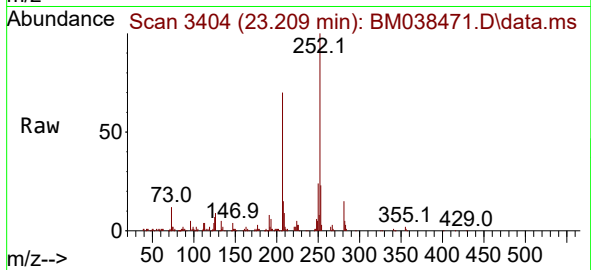
Tgt Ion:252 Resp: 140242

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

125 6.7 5.5 8.3



#90

Benzo(a)pyrene

Concen: 3.966 ng

RT: 23.839 min Scan# 3511

Delta R.T. -0.006 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

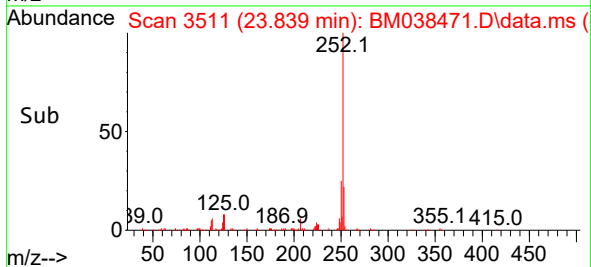
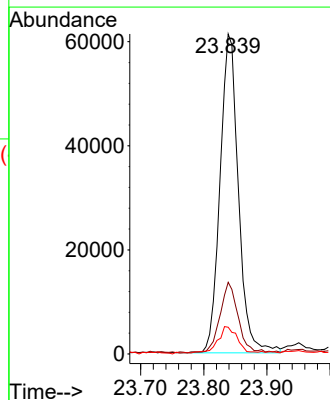
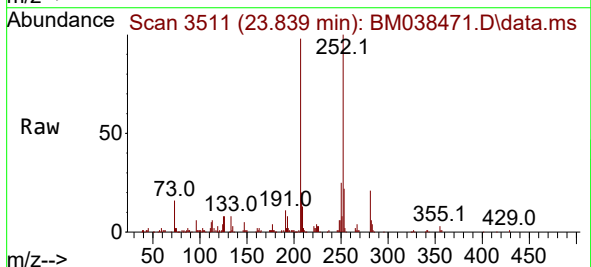
Tgt Ion:252 Resp: 123788

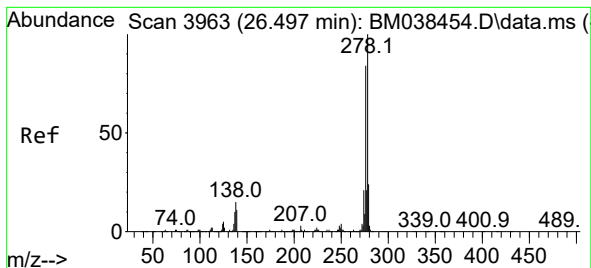
Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

125 8.3 5.8 8.8





#91

Dibenzo(a,h)anthracene

Concen: 4.331 ng

RT: 26.480 min Scan# 3963

Delta R.T. -0.018 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT3-2022

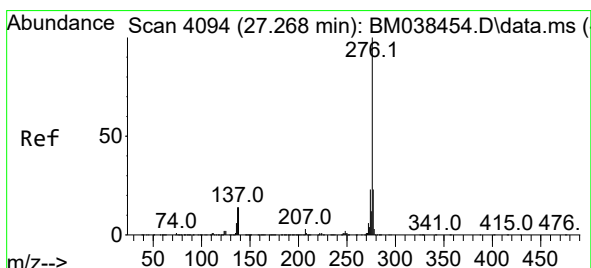
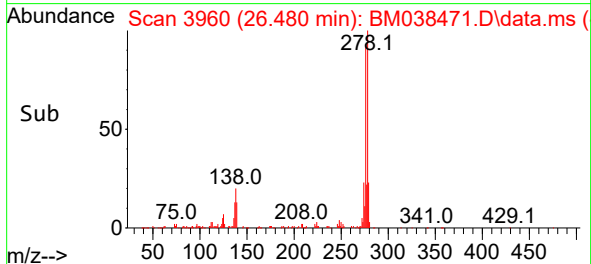
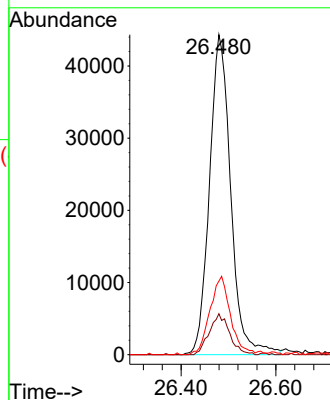
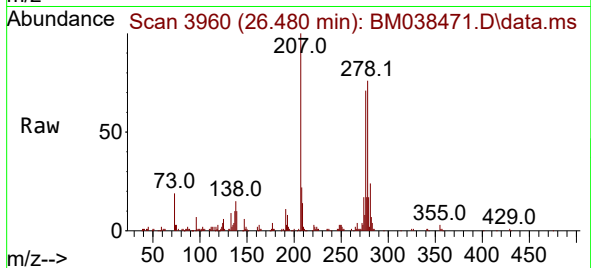
Tgt Ion:278 Resp: 137952

Ion Ratio Lower Upper

278 100

139 12.8 8.4 12.6#

279 23.0 19.0 28.6



#92

Benzo(g,h,i)perylene

Concen: 4.477 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.024 min

Lab File: BM038471.D

Acq: 17 Jan 2023 19:21

Tgt Ion:276 Resp: 141480

Ion Ratio Lower Upper

276 100

277 24.1 18.6 27.8

138 13.4 11.3 16.9

