

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM020624\
 Data File : BM043989.D
 Acq On : 06 Feb 2024 13:26
 Operator : MA/JU
 Sample : 04699-02
 Misc : LOQ-SOIL-5PPM
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2023

Quant Time: Feb 07 03:06:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 06 07:03:31 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	285990	20.000	ng	0.00
21) Naphthalene-d8	10.728	136	1294335	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	822428	20.000	ng	0.00
64) Phenanthrene-d10	17.315	188	1823037	20.000	ng	0.00
76) Chrysene-d12	21.515	240	1852695	20.000	ng	0.00
86) Perylene-d12	23.927	264	2153213	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	2150181	111.027	ng	0.00
7) Phenol-d6	7.087	99	2939832	102.741	ng	0.00
23) Nitrobenzene-d5	9.092	82	2449188	91.216	ng	0.00
42) 2,4,6-Tribromophenol	16.057	330	1022820	102.024	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	5494827	91.805	ng	0.00
79) Terphenyl-d14	19.956	244	9470626	98.679	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.399	88	42437	5.670	ng	99
3) Pyridine	3.799	79	105220	4.620	ng	97
4) n-Nitrosodimethylamine	3.722	42	46205	4.719	ng	# 95
6) Aniline	7.251	93	157173	5.521	ng	99
8) 2-Chlorophenol	7.481	128	96948	4.509	ng	98
9) Benzaldehyde	7.069	77	104279	3.555	ng	97
10) Phenol	7.110	94	139439	4.901	ng	89
11) bis(2-Chloroethyl)ether	7.357	93	109927	4.930	ng	98
12) 1,3-Dichlorobenzene	7.804	146	115384	4.970	ng	97
13) 1,4-Dichlorobenzene	7.957	146	117279	4.995	ng	99
14) 1,2-Dichlorobenzene	8.269	146	113605	4.907	ng	94
15) Benzyl Alcohol	8.169	79	94113	4.799	ng	94
16) 2,2'-oxybis(1-Chloropr...	8.451	45	153008	5.117	ng	99
17) 2-Methylphenol	8.369	107	82126	4.516	ng	99
18) Hexachloroethane	8.992	117	42517	4.826	ng	95
19) n-Nitroso-di-n-propyla...	8.734	70	87696	4.658	ng	98
20) 3+4-Methylphenols	8.692	107	110866	4.319	ng	99
22) Acetophenone	8.751	105	180006	5.133	ng	# 97
24) Nitrobenzene	9.134	77	142719	5.298	ng	99
25) Isophorone	9.657	82	235109	4.704	ng	98
26) 2-Nitrophenol	9.839	139	43807	4.023	ng	94
27) 2,4-Dimethylphenol	9.904	122	76929	5.146	ng	96
28) bis(2-Chloroethoxy)met...	10.151	93	157988	5.176	ng	97
29) 2,4-Dichlorophenol	10.369	162	85321	4.474	ng	99
30) 1,2,4-Trichlorobenzene	10.586	180	107817	5.006	ng	99
31) Naphthalene	10.775	128	359978	4.990	ng	99
32) Benzoic acid	9.957	122	37217	8.632	ng	89
33) 4-Chloroaniline	10.892	127	149496	5.042	ng	97
34) Hexachlorobutadiene	11.051	225	57419	4.888	ng	93
35) Caprolactam	11.663	113	29982	3.834	ng	93
36) 4-Chloro-3-methylphenol	12.016	107	100712	4.313	ng	98
37) 2-Methylnaphthalene	12.386	142	244782	4.865	ng	99
38) 1-Methylnaphthalene	12.604	142	243144	4.841	ng	99
40) 1,2,4,5-Tetrachloroben...	12.751	216	118904	5.098	ng	99
41) Hexachlorocyclopentadiene	12.722	237	43138	5.623	ng	93
43) 2,4,6-Trichlorophenol	12.998	196	65719	4.169	ng	98

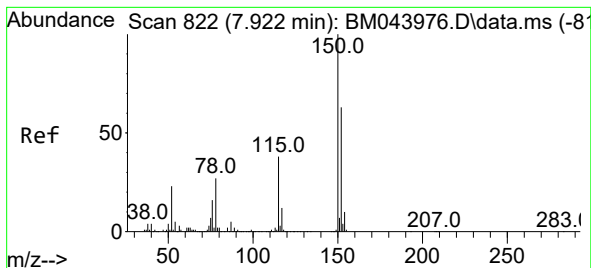
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 06 07:03:31 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.063	196	73944	4.112	ng	99
46) 1,1'-Biphenyl	13.404	154	330179	5.105	ng	99
47) 2-Chloronaphthalene	13.439	162	255450	4.953	ng	99
48) 2-Nitroaniline	13.651	65	70096	4.179	ng	94
49) Acenaphthylene	14.286	152	408002	5.175	ng	100
50) Dimethylphthalate	14.033	163	312189	4.887	ng	99
51) 2,6-Dinitrotoluene	14.151	165	58716	4.181	ng	93
52) Acenaphthene	14.627	154	241638	4.835	ng	98
53) 3-Nitroaniline	14.480	138	68502	4.202	ng #	87
54) 2,4-Dinitrophenol	14.686	184	19092	9.409	ng	95
55) Dibenzofuran	14.963	168	396977	5.104	ng	100
56) 4-Nitrophenol	14.780	139	53244	3.737	ng	93
57) 2,4-Dinitrotoluene	14.933	165	73382	3.754	ng	94
58) Fluorene	15.615	166	316310	4.815	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.186	232	70657	4.557	ng	98
60) Diethylphthalate	15.398	149	307474	4.649	ng	99
61) 4-Chlorophenyl-phenyle...	15.615	204	150050	4.896	ng	97
62) 4-Nitroaniline	15.639	138	69409	3.894	ng	96
63) Azobenzene	15.910	77	314077	4.755	ng	99
65) 4,6-Dinitro-2-methylph...	15.692	198	30062	8.524	ng	87
66) n-Nitrosodiphenylamine	15.827	169	268755	4.949	ng	100
67) 4-Bromophenyl-phenylether	16.510	248	72220	4.021	ng	97
68) Hexachlorobenzene	16.610	284	103973	4.856	ng	93
69) Atrazine	16.786	200	83870	5.583	ng	99
70) Pentachlorophenol	16.957	266	47608	3.386	ng	95
71) Phenanthrene	17.357	178	522849	5.149	ng	98
72) Anthracene	17.451	178	489265	4.922	ng	99
73) Carbazole	17.727	167	476915	4.632	ng	99
74) Di-n-butylphthalate	18.304	149	488610	4.327	ng	99
75) Fluoranthene	19.380	202	576421	4.590	ng	99
77) Benzidine	19.574	184	213581	9.086	ng	99
78) Pyrene	19.739	202	624282	4.902	ng	99
80) Butylbenzylphthalate	20.662	149	206384	4.093	ng	96
81) Benzo(a)anthracene	21.497	228	654026	5.032	ng	99
82) 3,3'-Dichlorobenzidine	21.439	252	192940	4.642	ng	99
83) Chrysene	21.550	228	618213	4.965	ng	99
84) Bis(2-ethylhexyl)phtha...	21.450	149	315011	4.200	ng	99
85) Di-n-octyl phthalate	22.397	149	515050	3.987	ng	99
87) Indeno(1,2,3-cd)pyrene	26.421	276	737977	4.580	ng	100
88) Benzo(b)fluoranthene	23.191	252	640093	4.726	ng	99
89) Benzo(k)fluoranthene	23.238	252	629274	4.843	ng	99
90) Benzo(a)pyrene	23.815	252	550174	4.596	ng	99
91) Dibenzo(a,h)anthracene	26.450	278	611075	4.599	ng	99
92) Benzo(g,h,i)perylene	27.185	276	599300	4.422	ng	97

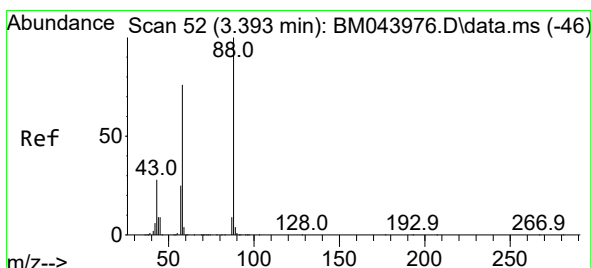
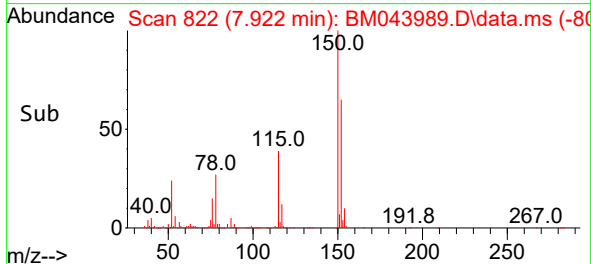
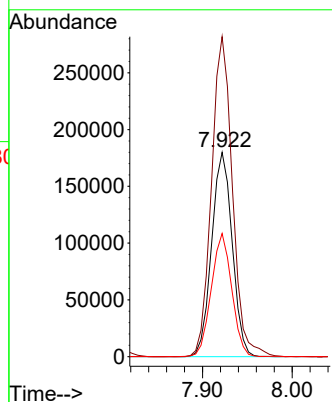
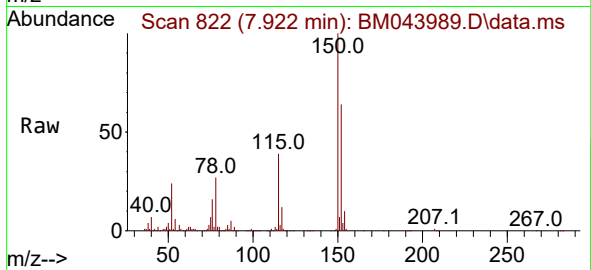
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 81
Delta R.T. -0.000 min
Lab File: BM043989.D
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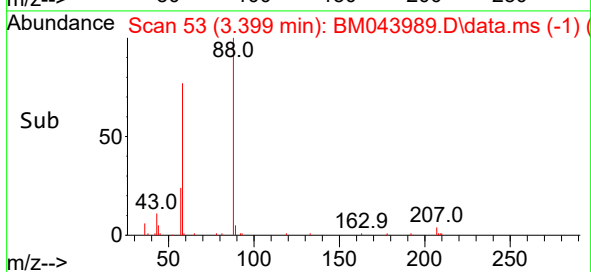
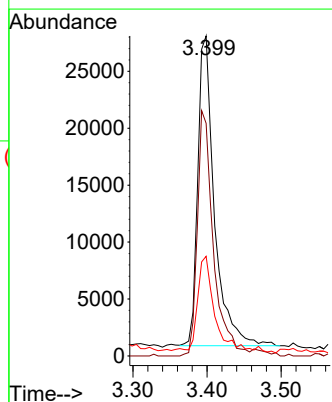
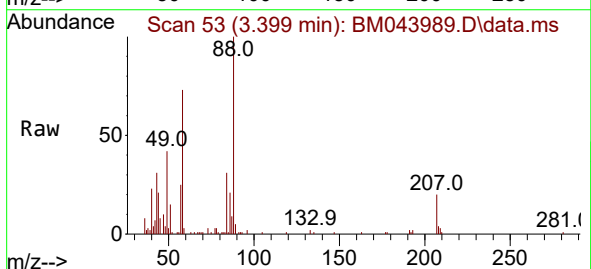
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

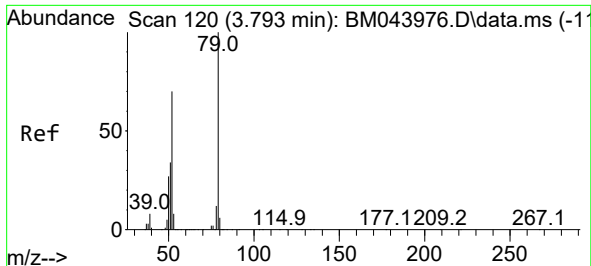
Tgt Ion:152 Resp: 285990
Ion Ratio Lower Upper
152 100
150 156.6 126.1 189.1
115 60.3 48.2 72.2



#2
1,4-Dioxane
Concen: 5.670 ng
RT: 3.399 min Scan# 53
Delta R.T. 0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 88 Resp: 42437
Ion Ratio Lower Upper
88 100
58 76.0 61.0 91.6
43 29.7 23.0 34.6

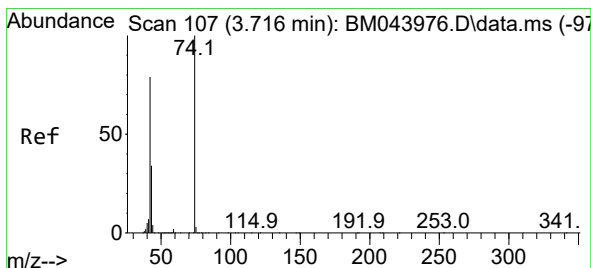
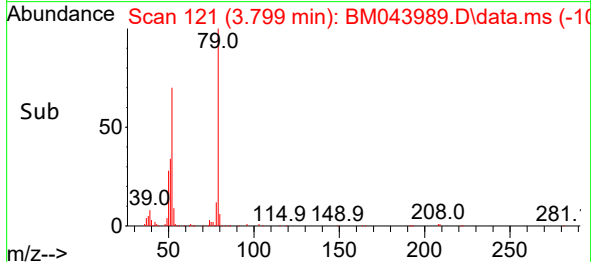
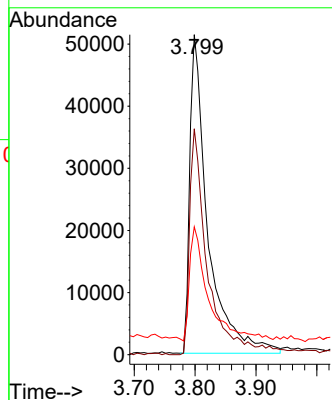
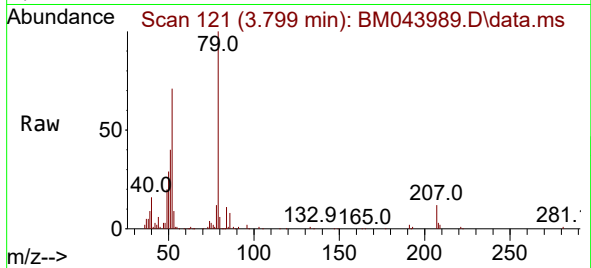




#3
Pyridine
Concen: 4.620 ng
RT: 3.799 min Scan# 11
Delta R.T. 0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

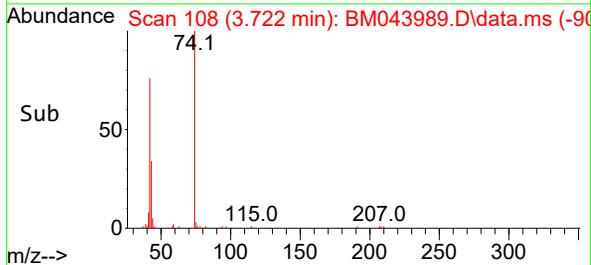
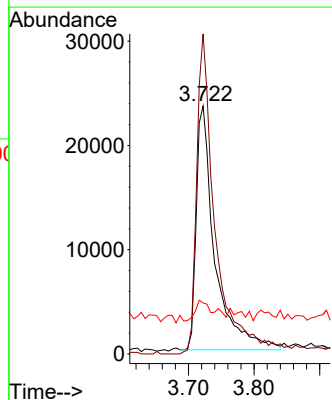
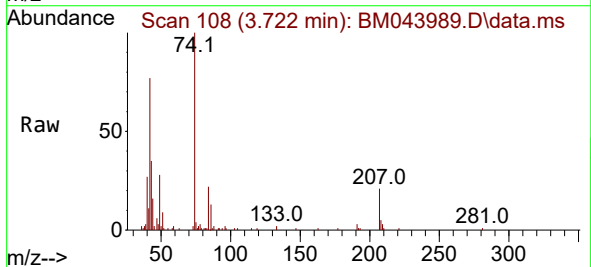
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

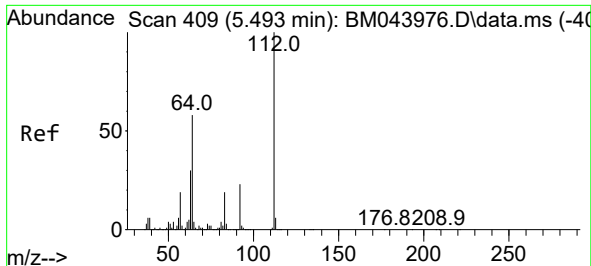
Tgt Ion: 79 Resp: 105220
Ion Ratio Lower Upper
79 100
52 70.6 55.9 83.9
51 39.9 28.2 42.2



#4
n-Nitrosodimethylamine
Concen: 4.719 ng
RT: 3.722 min Scan# 108
Delta R.T. 0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 42 Resp: 46205
Ion Ratio Lower Upper
42 100
74 129.1 100.7 151.1
44 20.6 7.3 10.9#

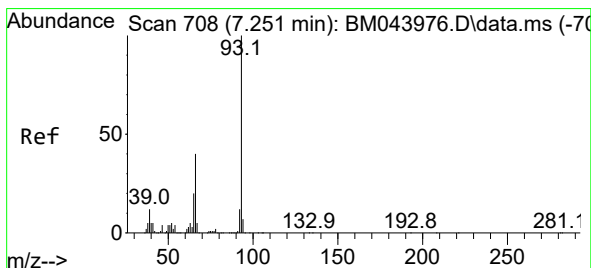
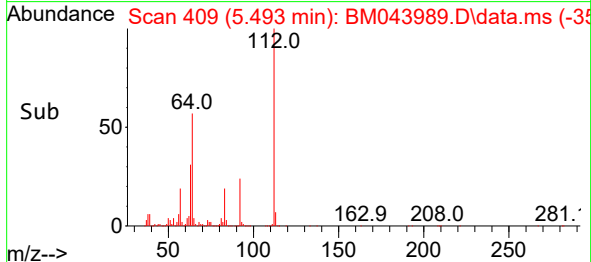
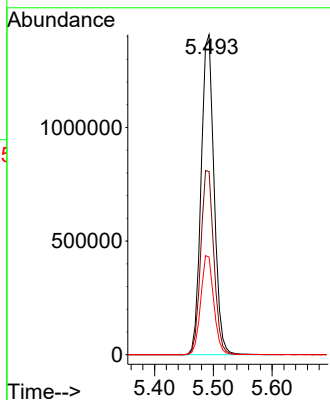
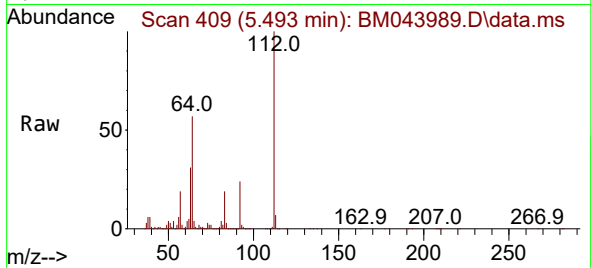




#5
2-Fluorophenol
Concen: 111.027 ng
RT: 5.493 min Scan# 409
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

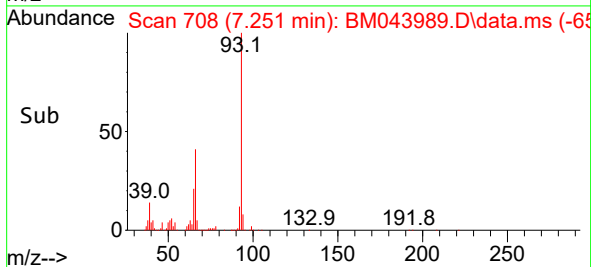
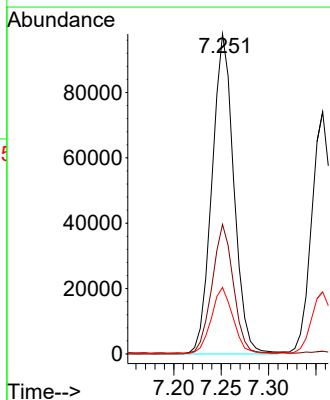
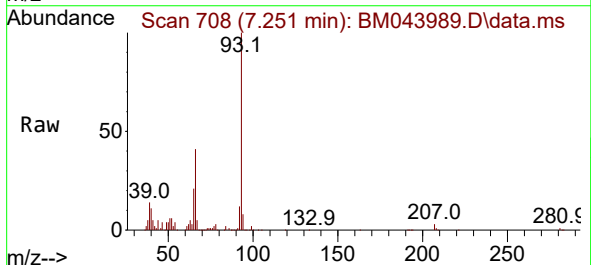
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

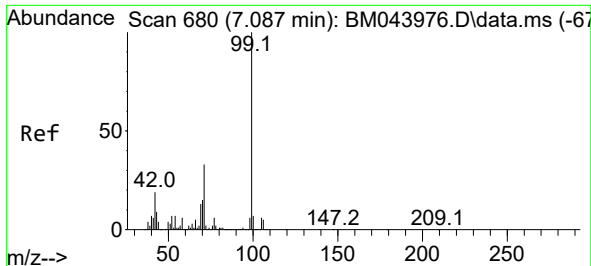
Tgt Ion:112 Resp: 2150181
Ion Ratio Lower Upper
112 100
64 57.2 46.6 70.0
63 30.5 24.2 36.4



#6
Aniline
Concen: 5.521 ng
RT: 7.251 min Scan# 708
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 93 Resp: 157173
Ion Ratio Lower Upper
93 100
66 40.5 32.2 48.2
65 20.8 15.8 23.8



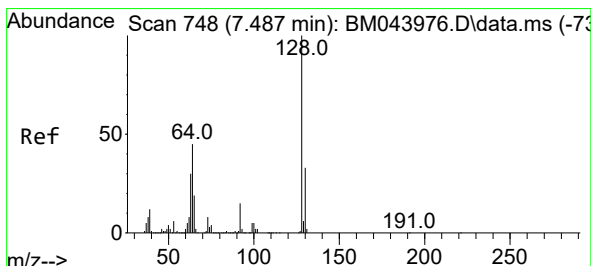
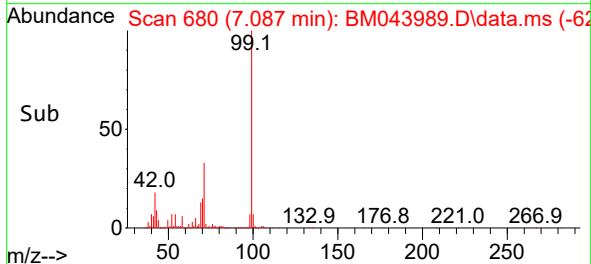
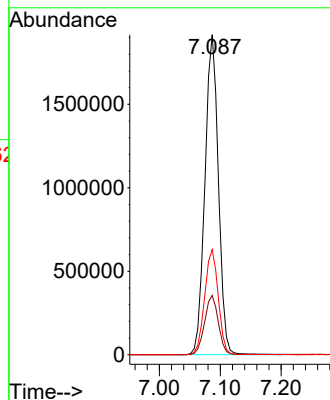
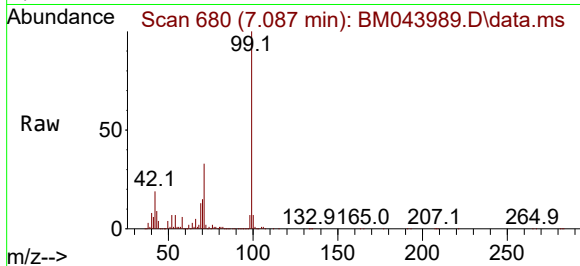


#7
Phenol-d6
Concen: 102.741 ng
RT: 7.087 min Scan# 680
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

Tgt Ion: 99 Resp: 2939832

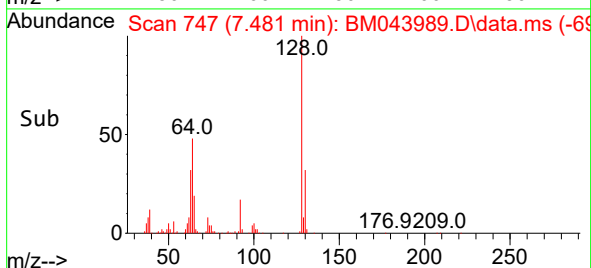
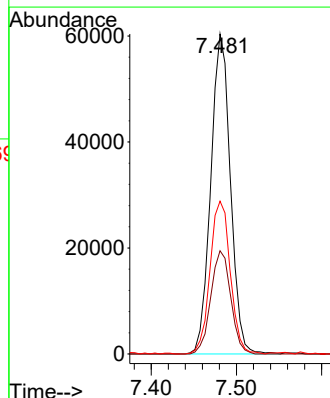
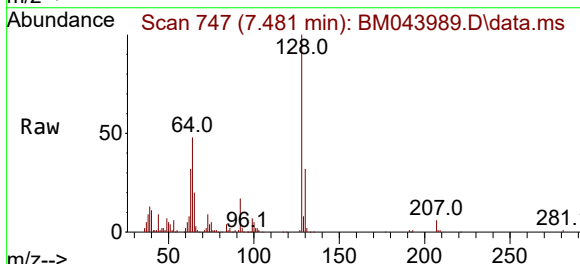
Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.9	22.3
71	32.9	26.3	39.5

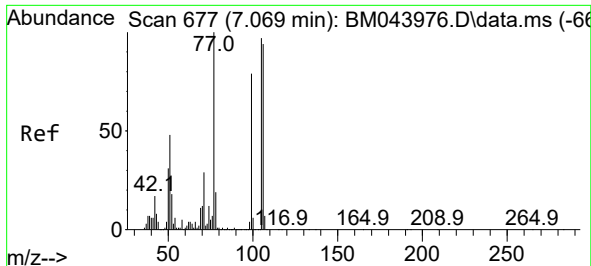


#8
2-Chlorophenol
Concen: 4.509 ng
RT: 7.481 min Scan# 747
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 128 Resp: 96948

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.9	52.9
64	47.8	25.6	65.6

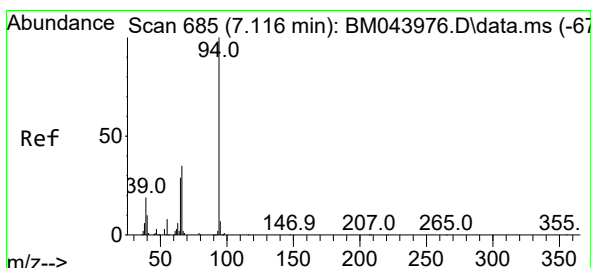
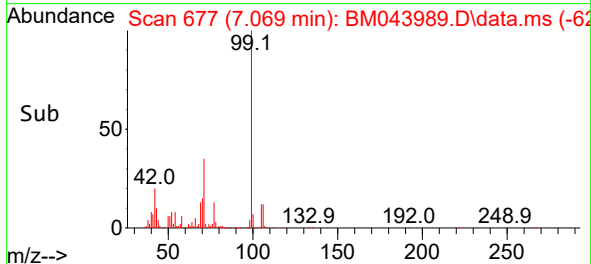
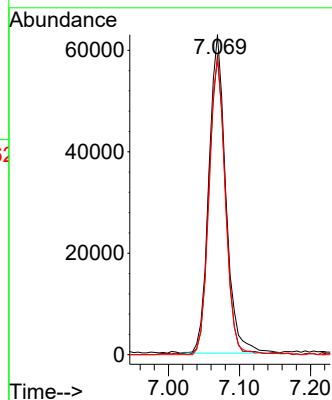
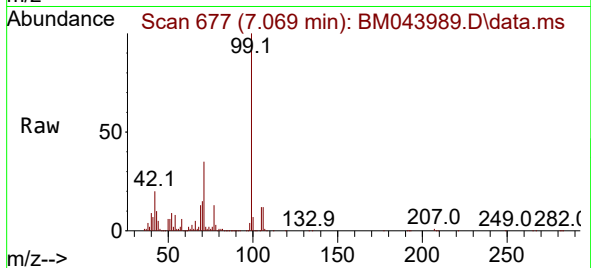




#9
Benzaldehyde
Concen: 3.555 ng
RT: 7.069 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

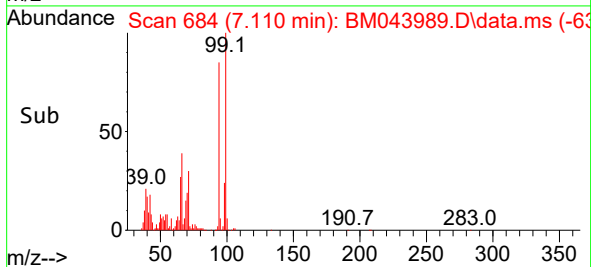
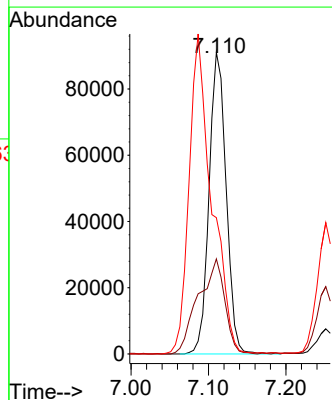
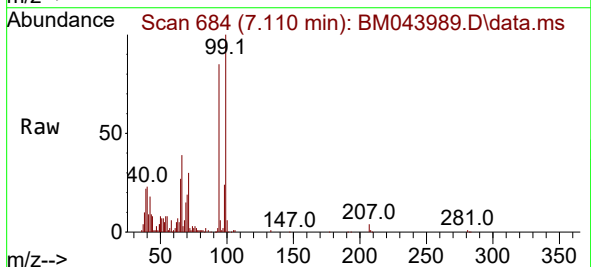
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

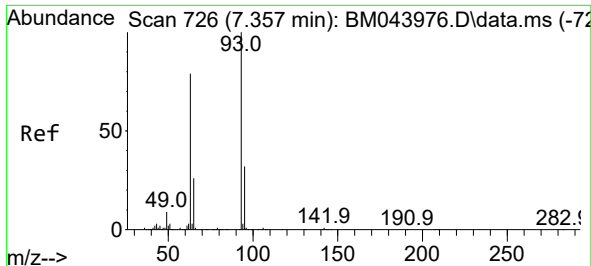
Tgt Ion: 77 Resp: 104279
Ion Ratio Lower Upper
77 100
105 93.7 77.4 117.4
106 92.0 73.5 113.5



#10
Phenol
Concen: 4.901 ng
RT: 7.110 min Scan# 684
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 94 Resp: 139439
Ion Ratio Lower Upper
94 100
65 31.5 9.3 49.3
66 45.2 15.7 55.7

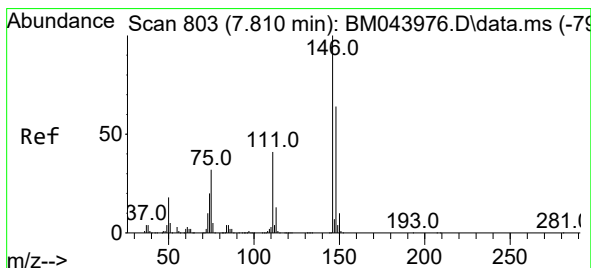
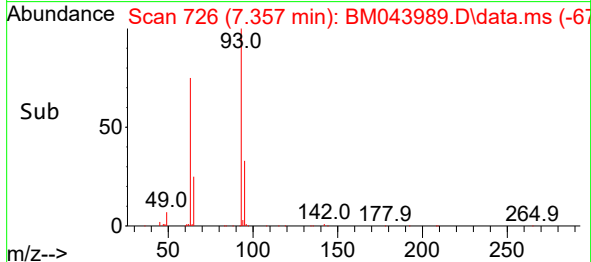
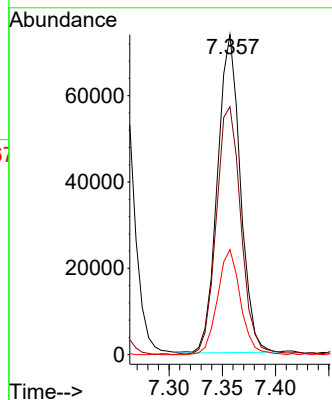
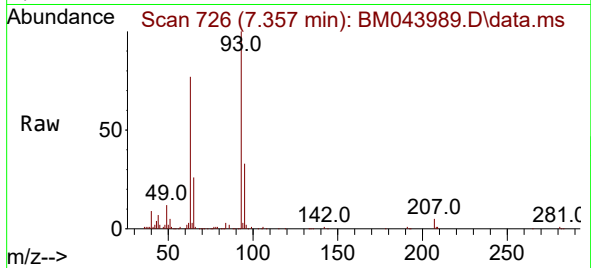




#11
bis(2-Chloroethyl)ether
Concen: 4.930 ng
RT: 7.357 min Scan# 71
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

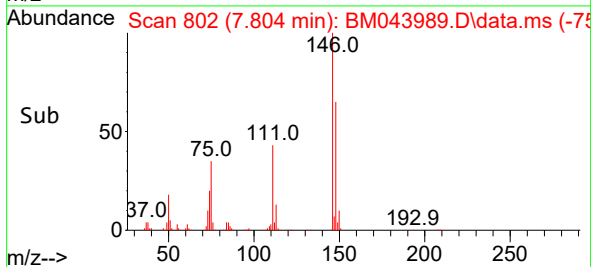
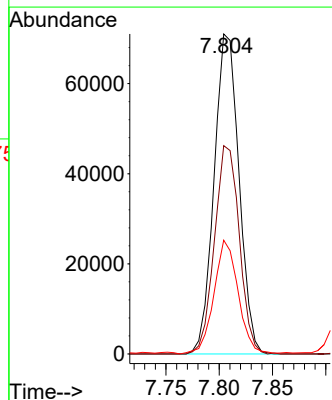
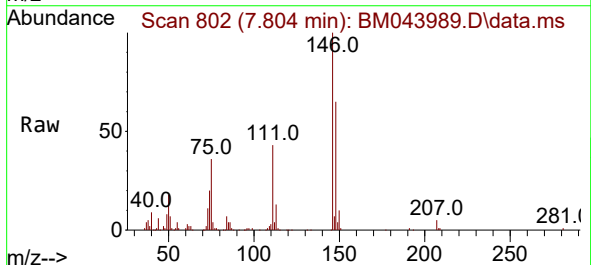
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

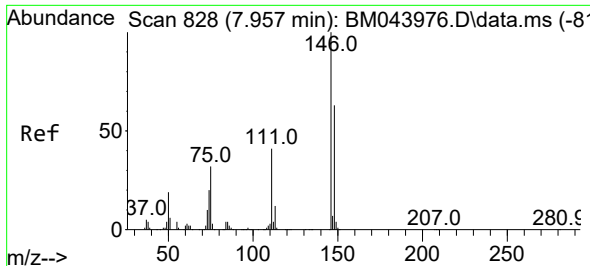
Tgt Ion: 93 Resp: 109927
Ion Ratio Lower Upper
93 100
63 77.5 59.0 99.0
95 32.9 11.9 51.9



#12
1,3-Dichlorobenzene
Concen: 4.970 ng
RT: 7.804 min Scan# 802
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:146 Resp: 115384
Ion Ratio Lower Upper
146 100
148 65.1 51.0 76.6
75 35.6 26.1 39.1

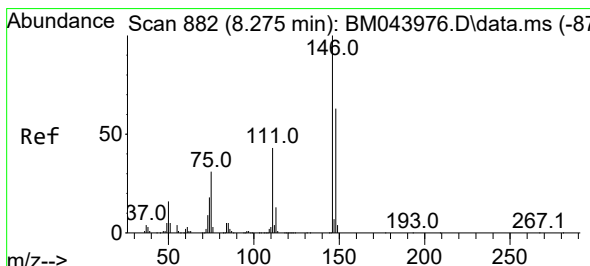
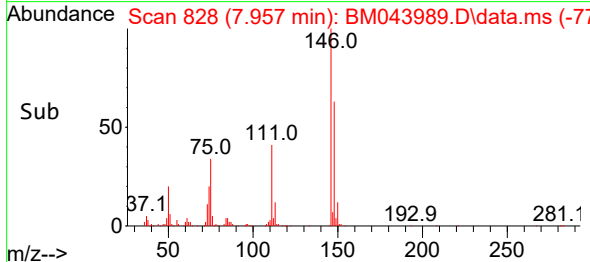
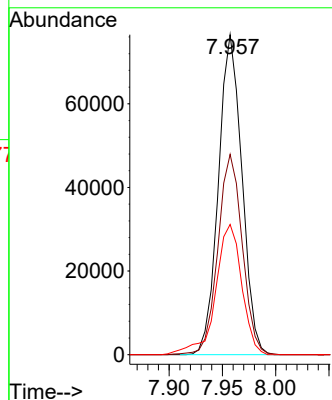
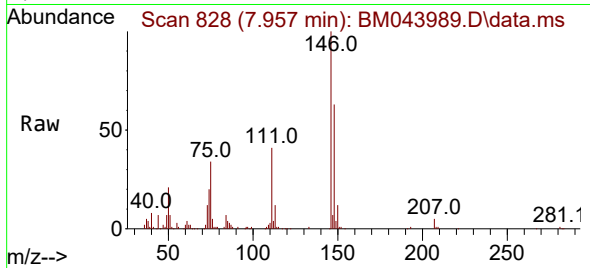




#13
1,4-Dichlorobenzene
Concen: 4.995 ng
RT: 7.957 min Scan# 81
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

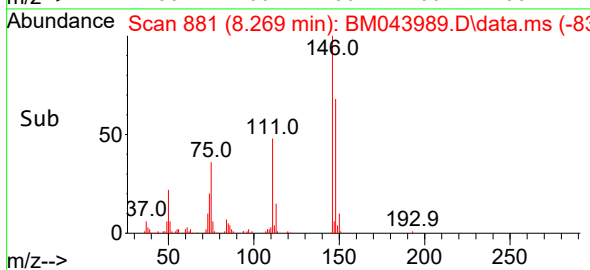
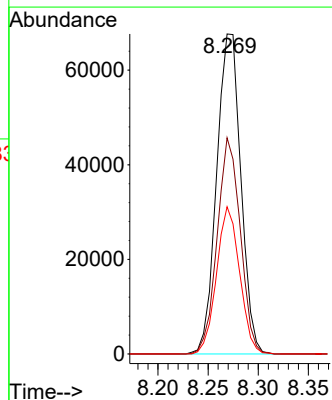
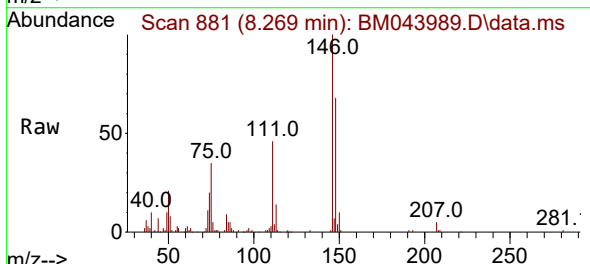
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

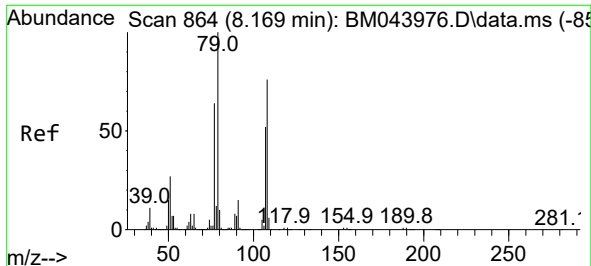
Tgt Ion:146 Resp: 117279
Ion Ratio Lower Upper
146 100
148 62.6 50.7 76.1
111 40.7 32.6 49.0



#14
1,2-Dichlorobenzene
Concen: 4.907 ng
RT: 8.269 min Scan# 881
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:146 Resp: 113605
Ion Ratio Lower Upper
146 100
148 67.6 50.3 75.5
111 46.0 34.3 51.5

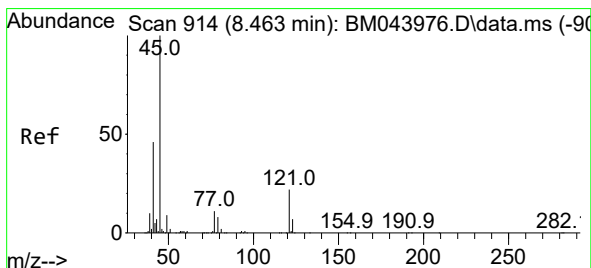
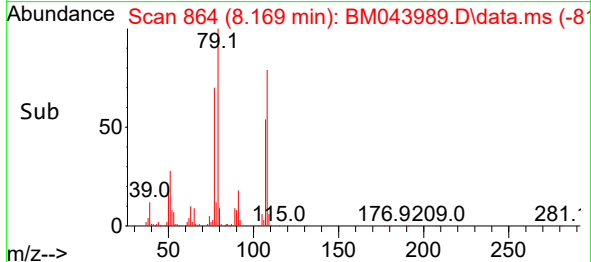
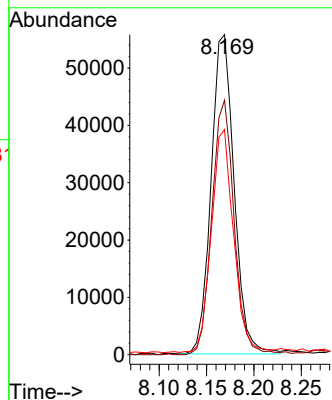
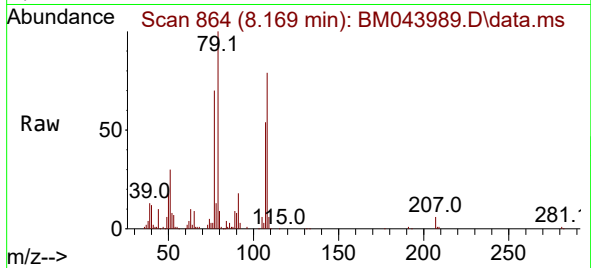




#15
Benzyl Alcohol
Concen: 4.799 ng
RT: 8.169 min Scan# 80
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

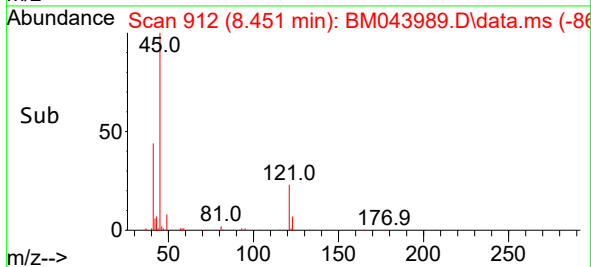
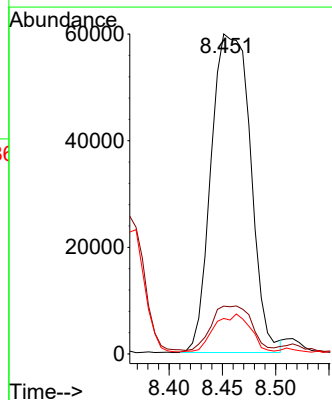
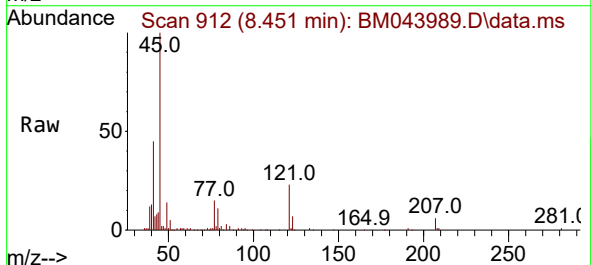
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

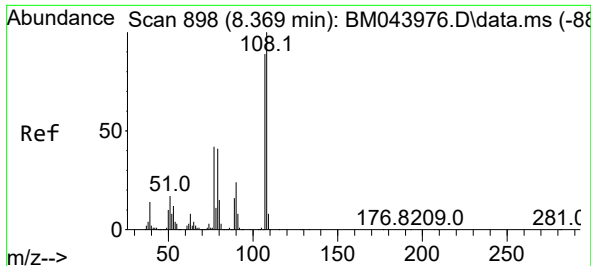
Tgt Ion: 79 Resp: 94113
Ion Ratio Lower Upper
79 100
108 79.5 60.7 91.1
77 70.3 50.9 76.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.117 ng
RT: 8.451 min Scan# 912
Delta R.T. -0.012 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 45 Resp: 153008
Ion Ratio Lower Upper
45 100
77 15.0 0.0 34.4
79 11.1 0.0 31.2

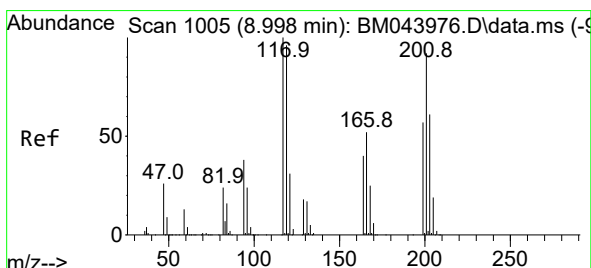
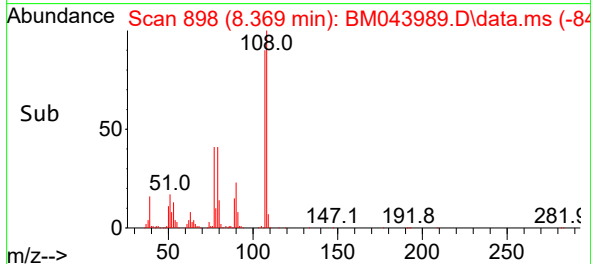
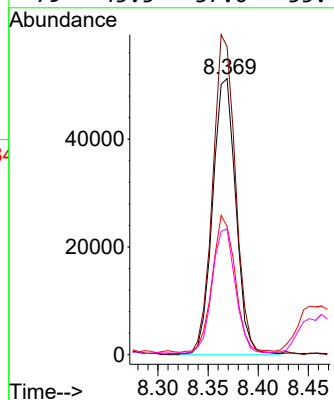
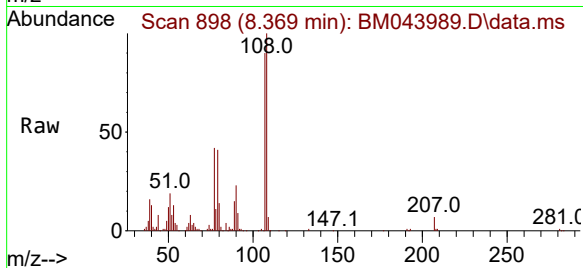




#17
2-Methylphenol
Concen: 4.516 ng
RT: 8.369 min Scan# 898
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

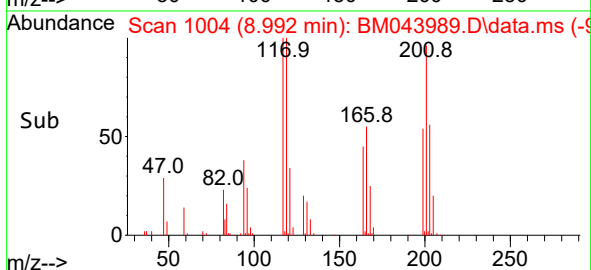
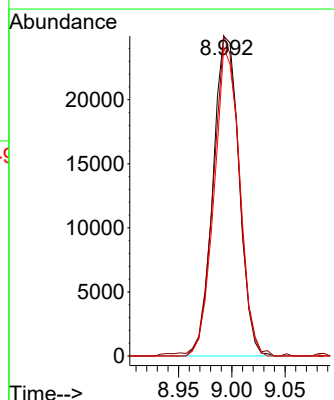
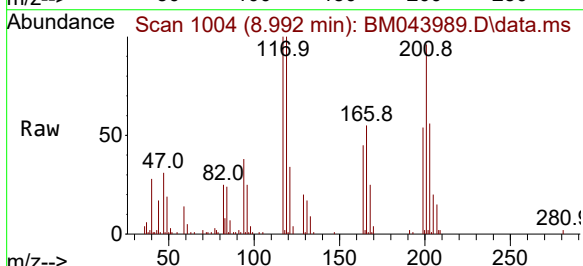
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

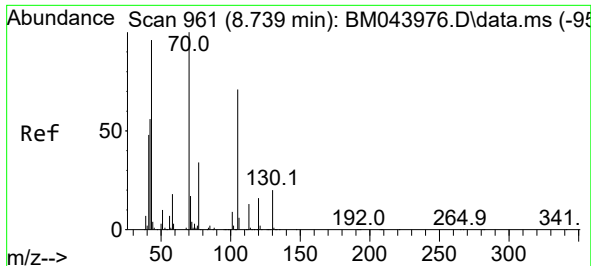
Tgt Ion:	107	Resp:	82126
Ion	Ratio	Lower	Upper
107	100		
108	111.5	90.4	135.6
77	46.4	38.0	57.0
79	45.5	37.0	55.4



#18
Hexachloroethane
Concen: 4.826 ng
RT: 8.992 min Scan# 1004
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:	117	Resp:	42517
Ion	Ratio	Lower	Upper
117	100		
119	100.1	76.7	115.1
201	96.5	73.4	110.2

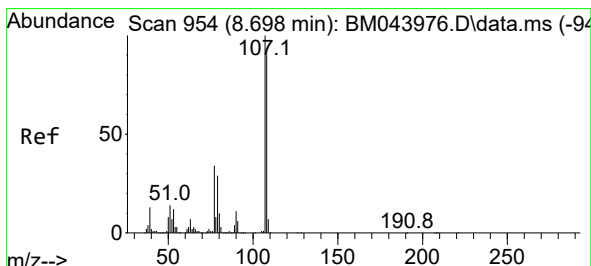
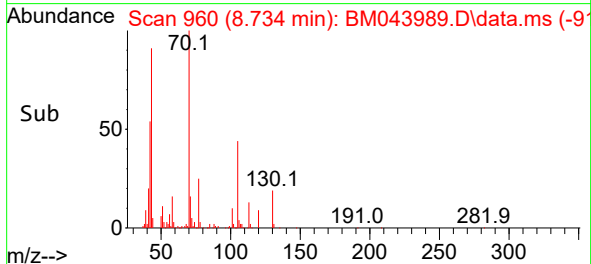
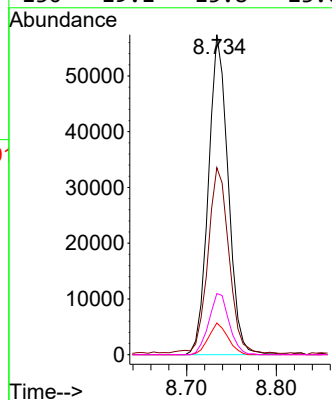
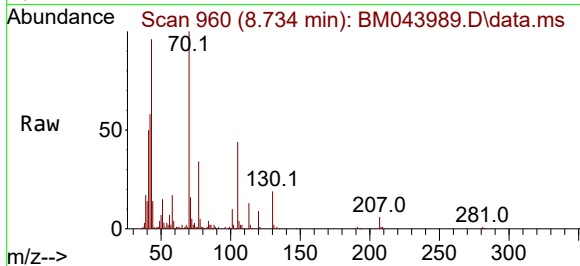




#19
n-Nitroso-di-n-propylamine
Concen: 4.658 ng
RT: 8.734 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

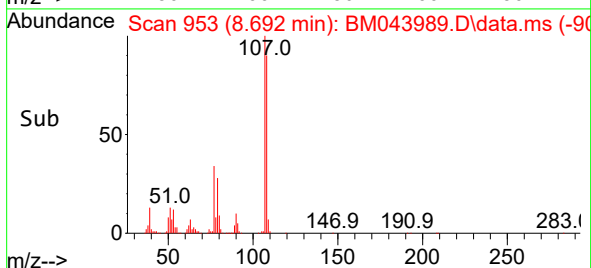
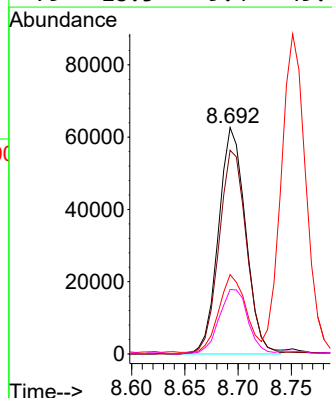
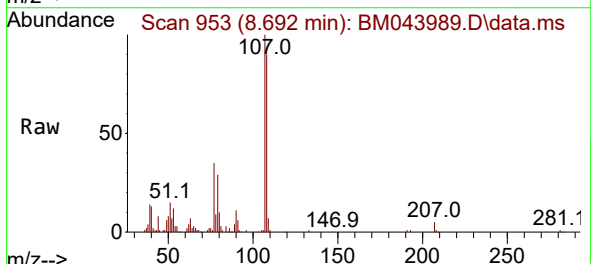
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

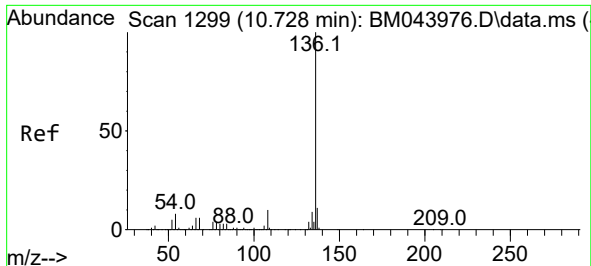
Tgt Ion: 70	Resp: 87696
Ion Ratio	Lower Upper
70 100	
42 58.5	45.6 68.4
101 9.9	7.5 11.3
130 19.1	15.8 23.6



#20
3+4-Methylphenols
Concen: 4.319 ng
RT: 8.692 min Scan# 953
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt	Ion:107	Resp:	110866
Ion	Ratio	Lower	Upper
107	100		
108	89.9	70.3	110.3
77	35.1	14.0	54.0
79	28.5	9.4	49.4

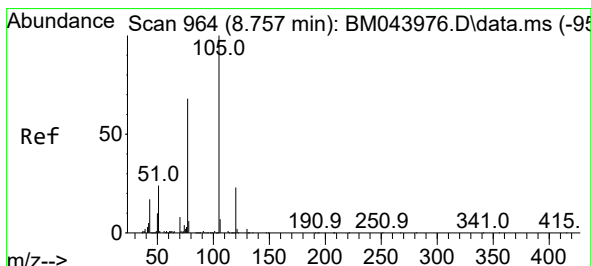
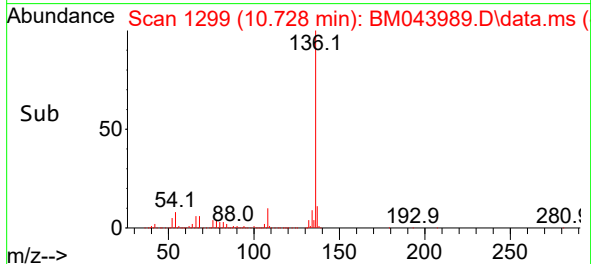
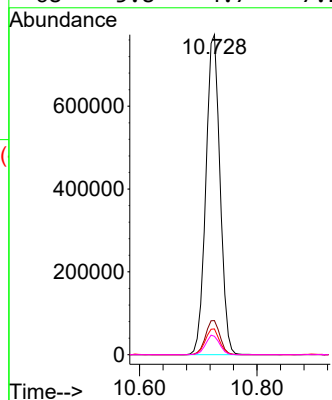
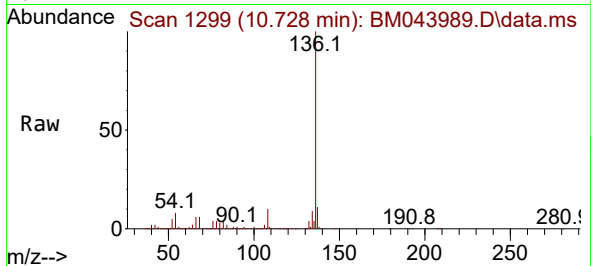




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.728 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

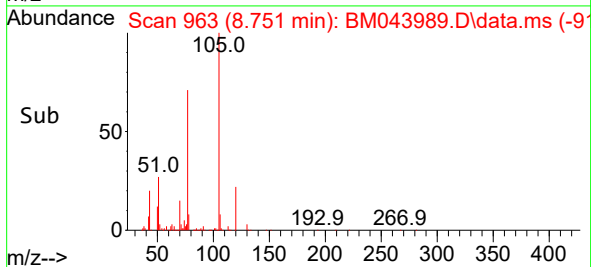
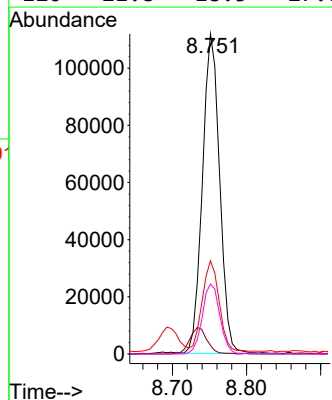
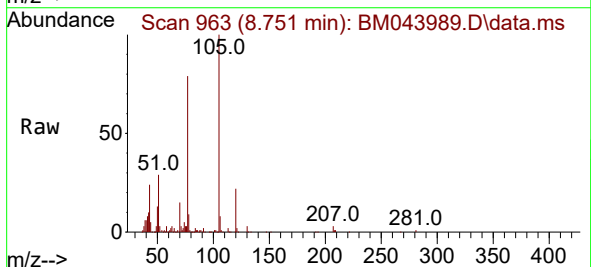
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

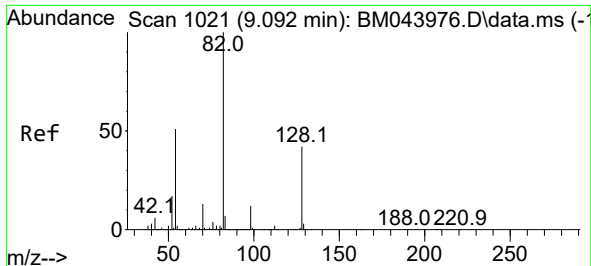
Tgt Ion:136 Resp: 1294335
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 8.0 6.5 9.7
68 5.8 4.7 7.1



#22
Acetophenone
Concen: 5.133 ng
RT: 8.751 min Scan# 963
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:105 Resp: 180006
Ion Ratio Lower Upper
105 100
71 2.7 1.6 2.4#
51 29.1 21.8 32.6
120 21.8 18.5 27.7





#23

Nitrobenzene-d5

Concen: 91.216 ng

RT: 9.092 min Scan# 1021

Delta R.T. 0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

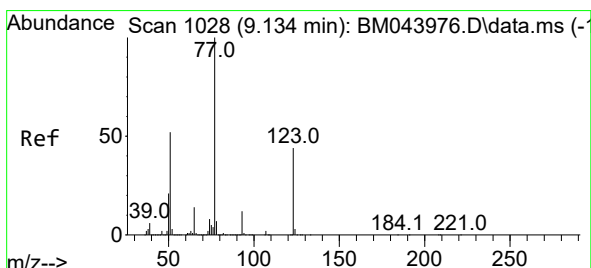
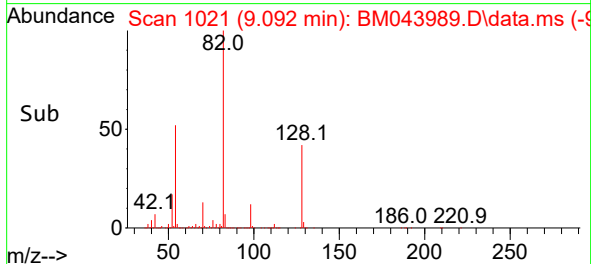
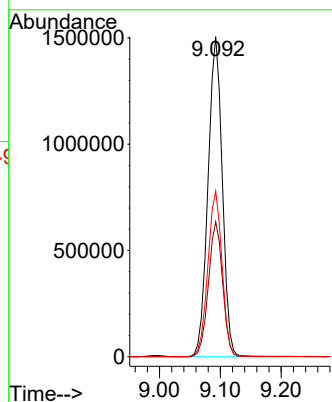
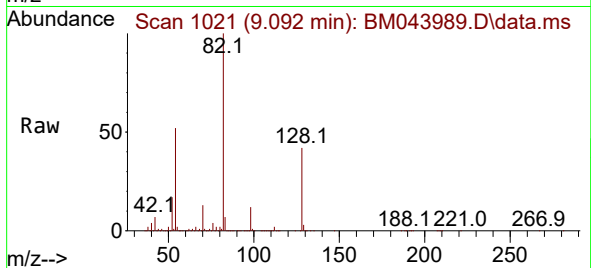
BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

Tgt Ion: 82 Resp: 2449188

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.9	50.9
54	51.8	41.1	61.7



#24

Nitrobenzene

Concen: 5.298 ng

RT: 9.134 min Scan# 1028

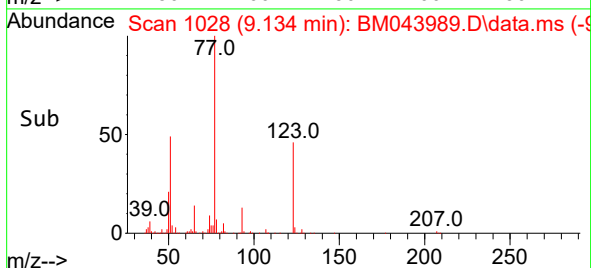
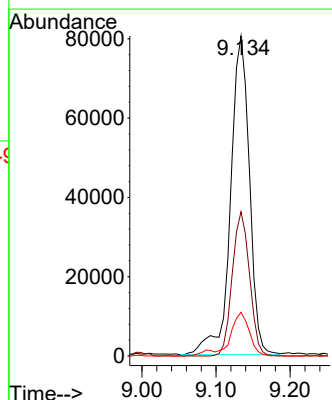
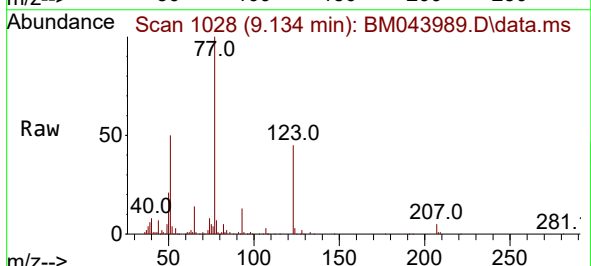
Delta R.T. -0.000 min

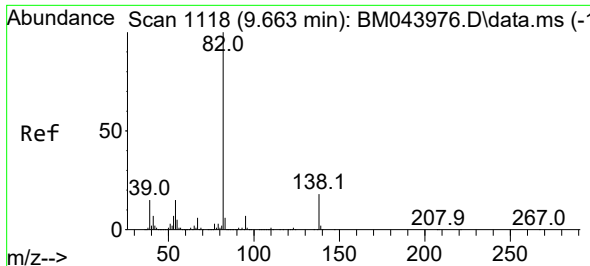
Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Tgt Ion: 77 Resp: 142719

Ion	Ratio	Lower	Upper
77	100		
123	45.0	35.3	52.9
65	13.7	10.9	16.3

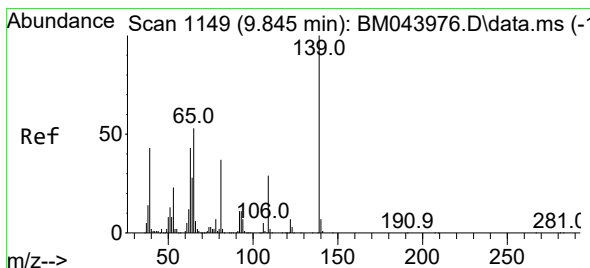
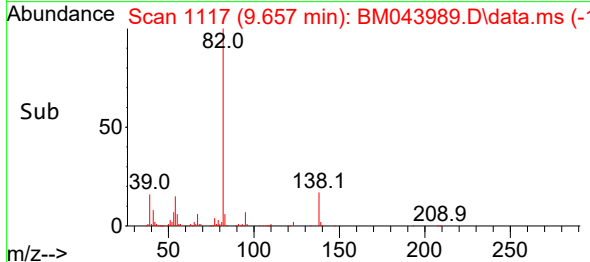
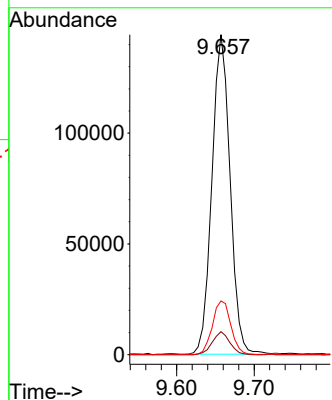
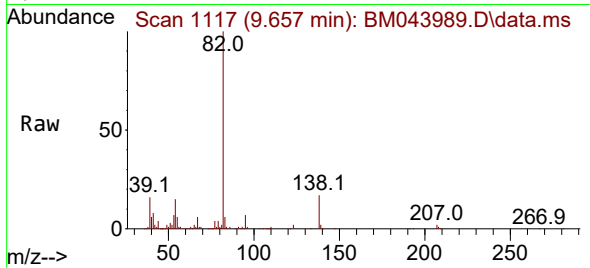




#25
Isophorone
Concen: 4.704 ng
RT: 9.657 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

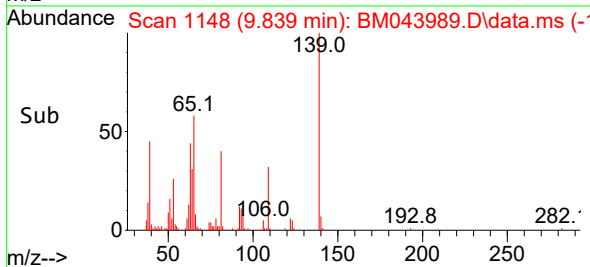
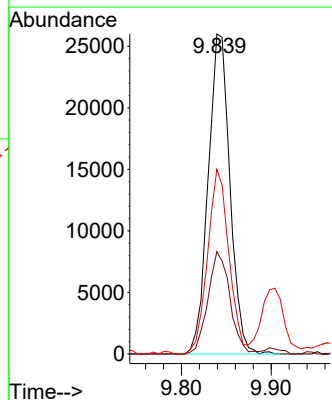
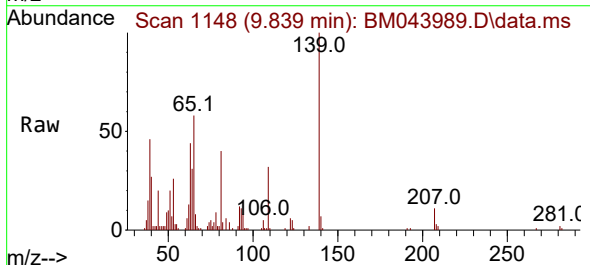
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

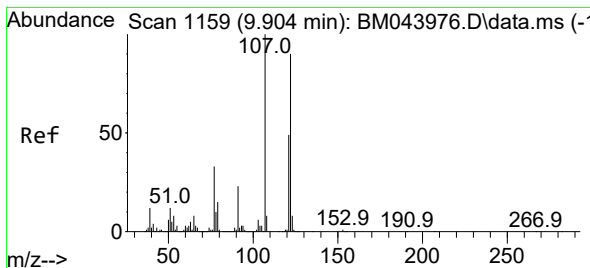
Tgt Ion: 82 Resp: 235109
Ion Ratio Lower Upper
82 100
95 7.2 5.6 8.4
138 16.8 14.2 21.2



#26
2-Nitrophenol
Concen: 4.023 ng
RT: 9.839 min Scan# 1148
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 139 Resp: 43807
Ion Ratio Lower Upper
139 100
109 32.0 23.3 34.9
65 57.7 42.5 63.7





#27

2,4-Dimethylphenol

Concen: 5.146 ng

RT: 9.904 min Scan# 1159

Delta R.T. -0.000 min

Lab File: BM043989.D

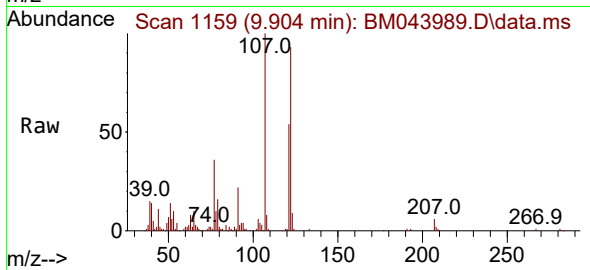
Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



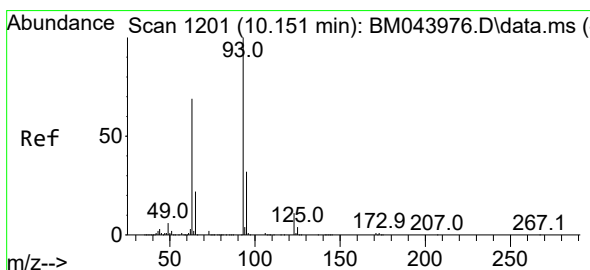
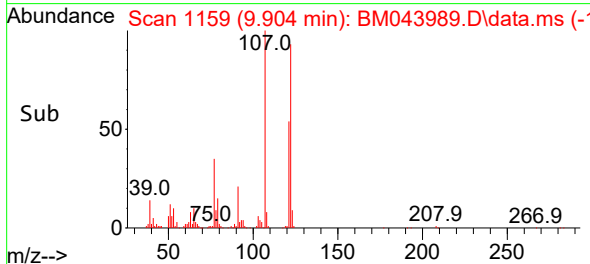
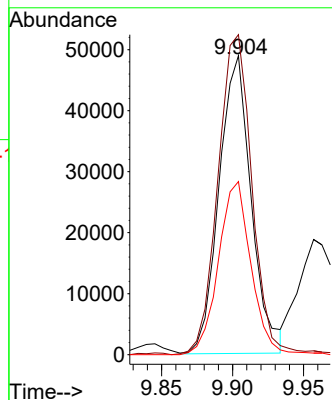
Tgt Ion:122 Resp: 76929

Ion Ratio Lower Upper

122 100

107 107.0 89.0 133.4

121 57.9 43.4 65.0



#28

bis(2-Chloroethoxy)methane

Concen: 5.176 ng

RT: 10.151 min Scan# 1201

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

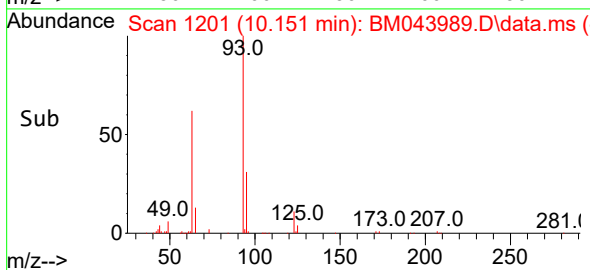
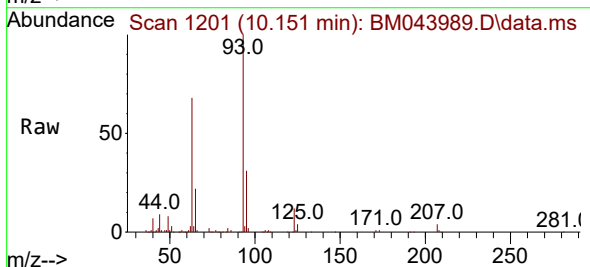
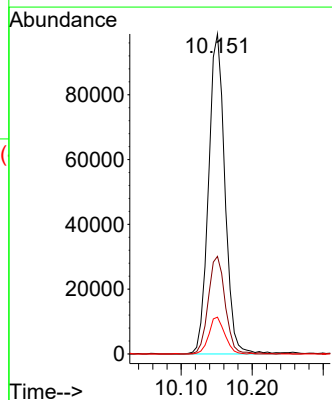
Tgt Ion: 93 Resp: 157988

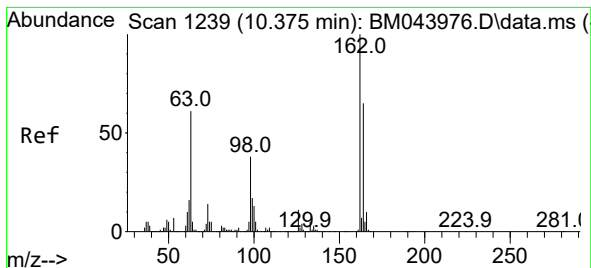
Ion Ratio Lower Upper

93 100

95 30.5 25.9 38.9

123 11.5 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 4.474 ng

RT: 10.369 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

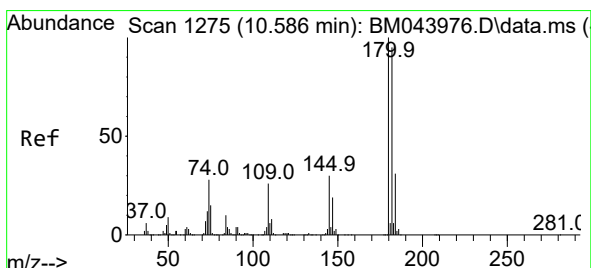
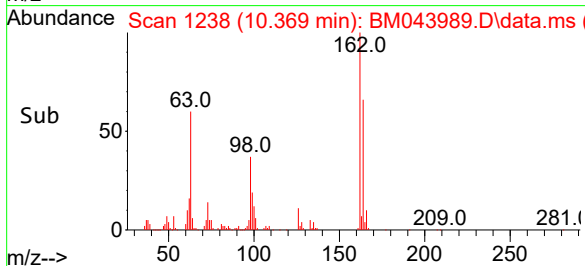
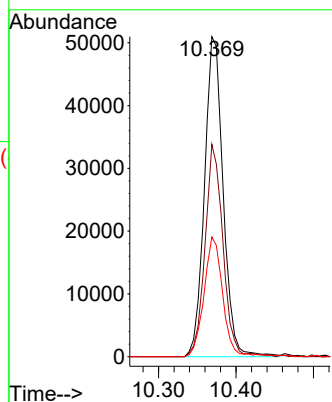
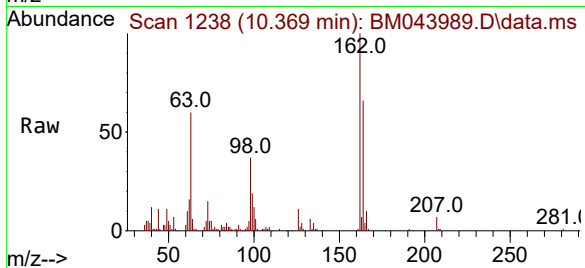
Tgt Ion:162 Resp: 85321

Ion Ratio Lower Upper

162 100

164 66.3 45.1 85.1

98 37.4 17.8 57.8



#30

1,2,4-Trichlorobenzene

Concen: 5.006 ng

RT: 10.586 min Scan# 1275

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

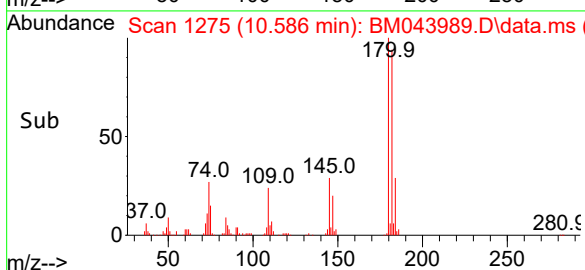
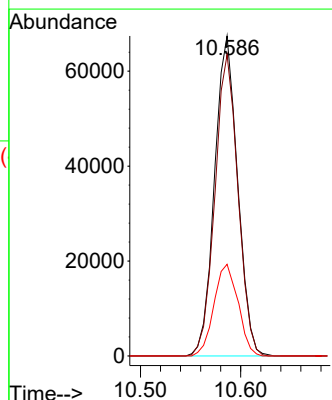
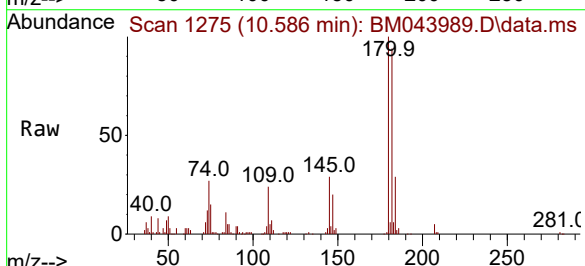
Tgt Ion:180 Resp: 107817

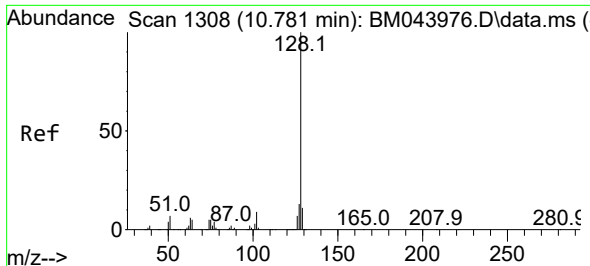
Ion Ratio Lower Upper

180 100

182 94.2 76.0 114.0

145 28.6 24.2 36.2

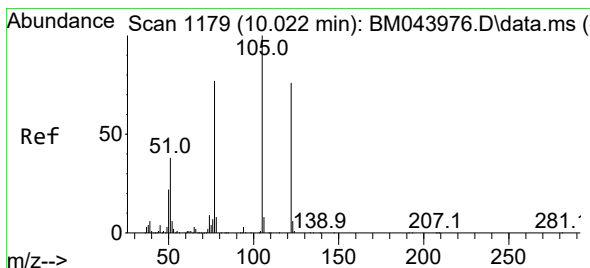
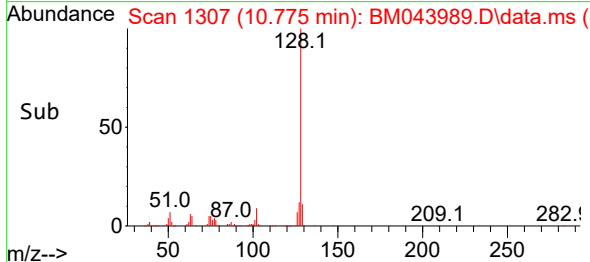
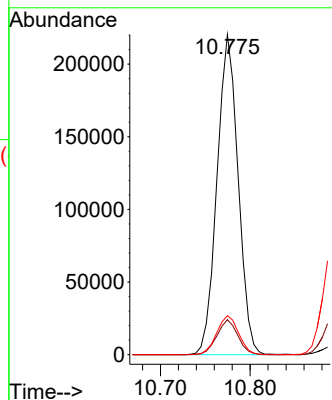
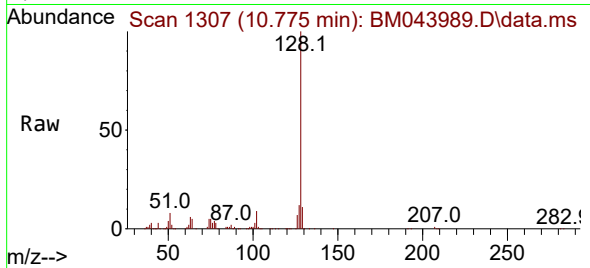




#31
Naphthalene
Concen: 4.990 ng
RT: 10.775 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

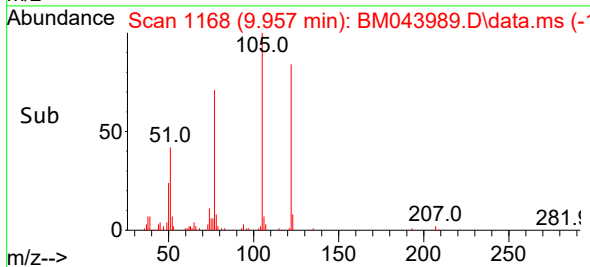
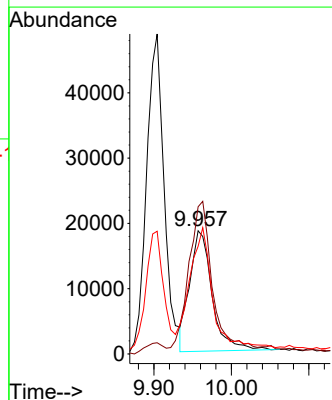
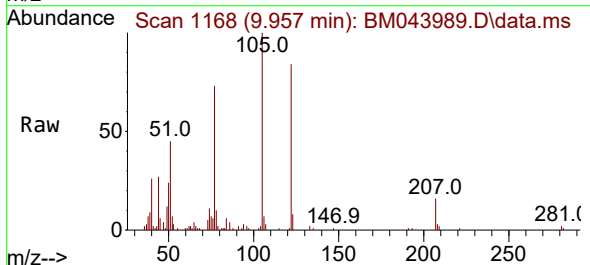
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

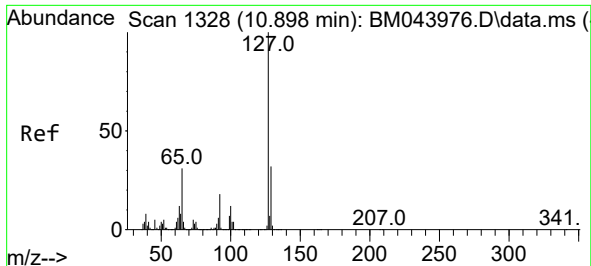
Tgt Ion:128 Resp: 359978
Ion Ratio Lower Upper
128 100
129 10.9 8.4 12.6
127 12.2 10.1 15.1



#32
Benzoic acid
Concen: 8.632 ng
RT: 9.957 min Scan# 1168
Delta R.T. -0.065 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:122 Resp: 37217
Ion Ratio Lower Upper
122 100
105 119.5 109.4 149.4
77 87.3 80.5 120.5

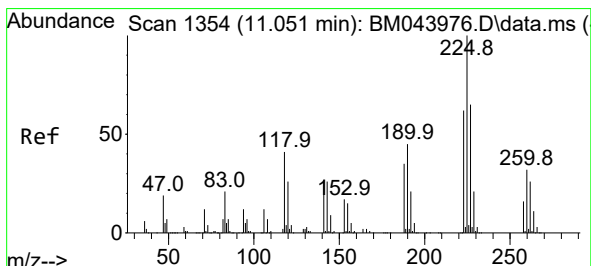
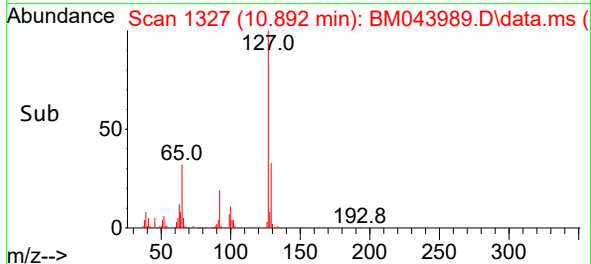
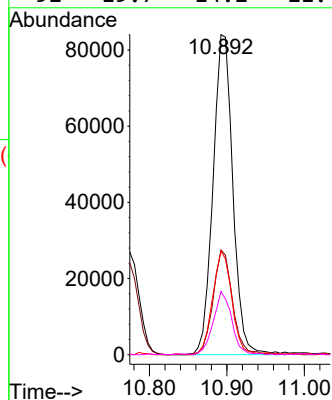
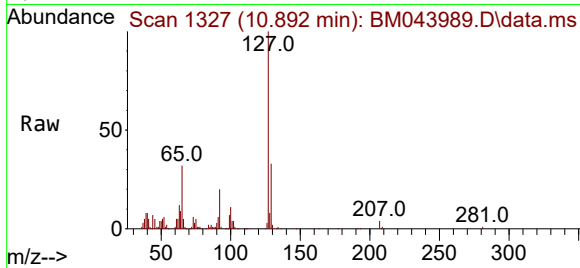




#33
4-Chloroaniline
Concen: 5.042 ng
RT: 10.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

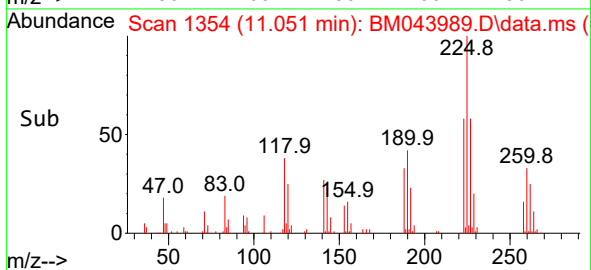
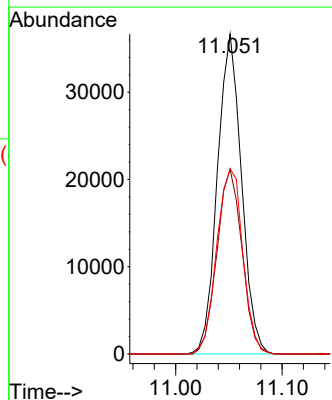
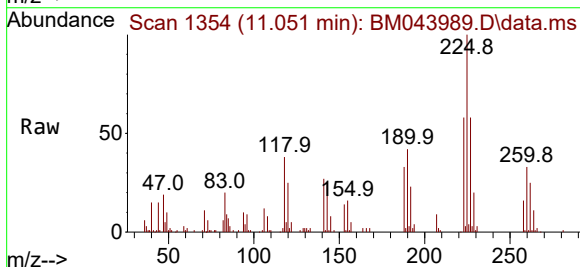
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

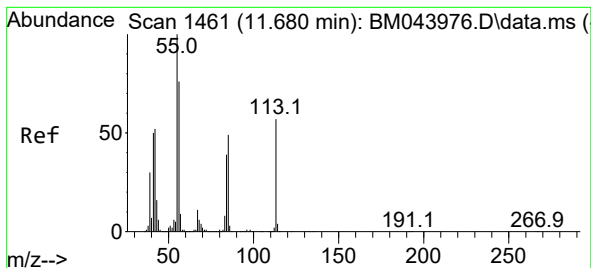
Tgt Ion:127	Resp:	149496
Ion	Ratio	Lower Upper
127	100	
129	32.7	25.6 38.4
65	32.4	24.5 36.7
92	19.7	14.2 21.4



#34
Hexachlorobutadiene
Concen: 4.888 ng
RT: 11.051 min Scan# 1354
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:225	Resp:	57419
Ion	Ratio	Lower Upper
225	100	
223	57.8	49.8 74.8
227	57.9	51.7 77.5





#35

Caprolactam

Concen: 3.834 ng

RT: 11.663 min Scan# 1458

Delta R.T. -0.018 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

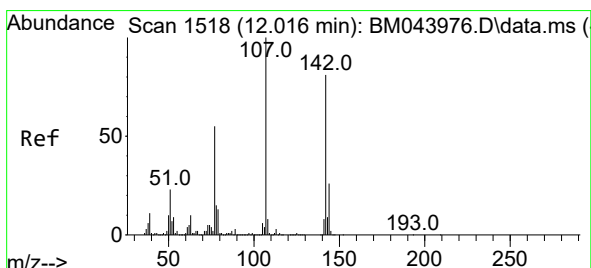
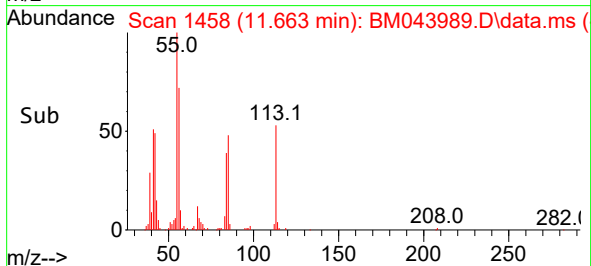
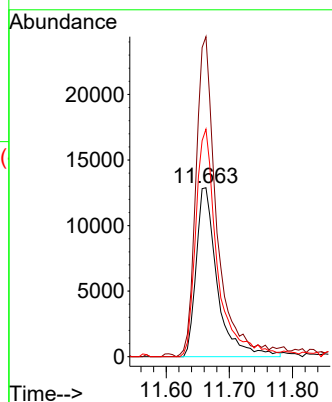
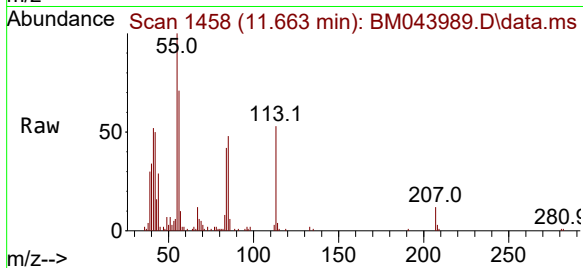
Tgt Ion:113 Resp: 29982

Ion Ratio Lower Upper

113 100

55 189.3 154.3 194.3

56 134.7 112.2 152.2



#36

4-Chloro-3-methylphenol

Concen: 4.313 ng

RT: 12.016 min Scan# 1518

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

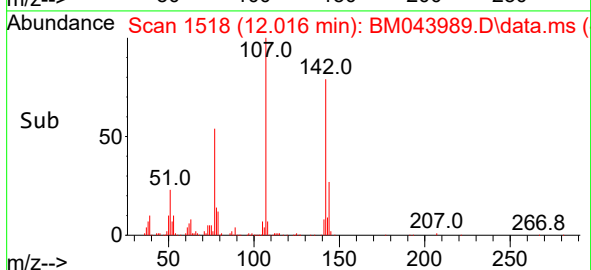
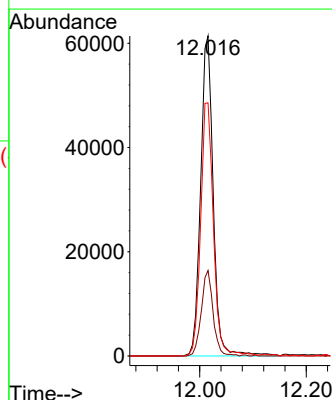
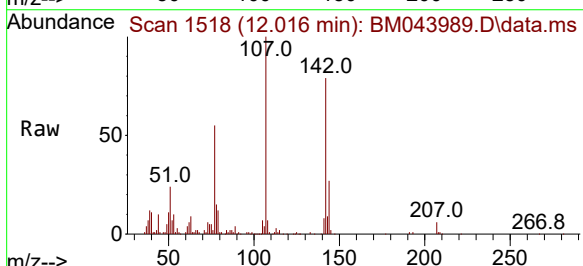
Tgt Ion:107 Resp: 100712

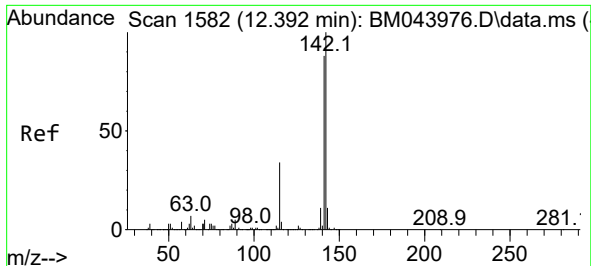
Ion Ratio Lower Upper

107 100

144 26.7 21.1 31.7

142 79.1 65.0 97.4

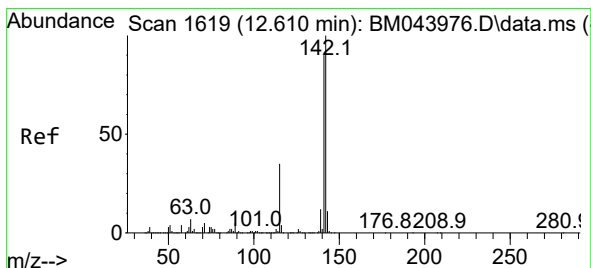
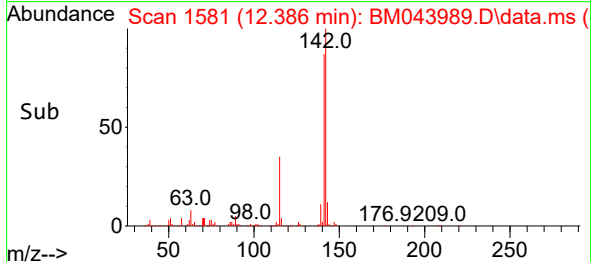
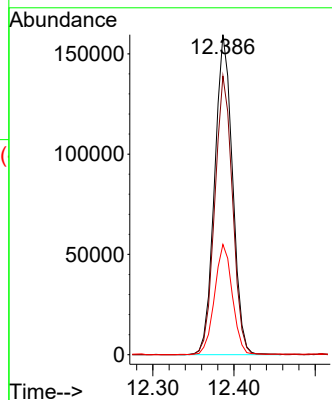
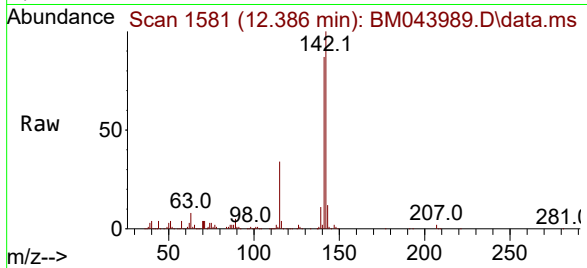




#37
2-Methylnaphthalene
Concen: 4.865 ng
RT: 12.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

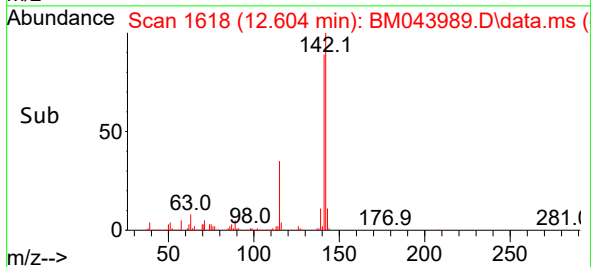
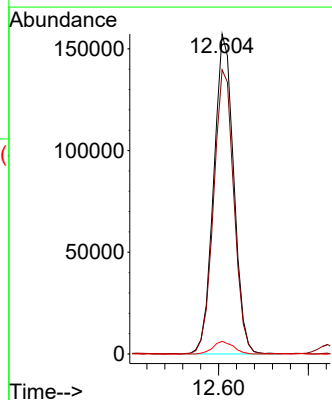
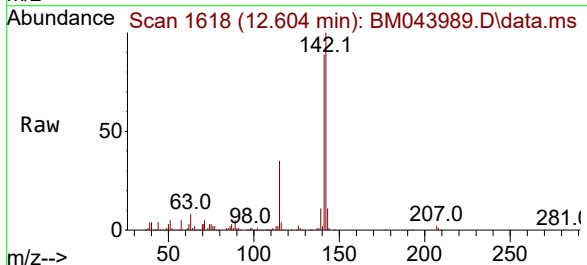
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

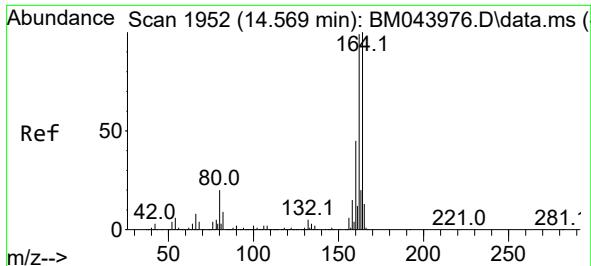
Tgt Ion:142 Resp: 244782
Ion Ratio Lower Upper
142 100
141 87.1 70.2 105.2
115 34.5 27.2 40.8



#38
1-Methylnaphthalene
Concen: 4.841 ng
RT: 12.604 min Scan# 1618
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:142 Resp: 243144
Ion Ratio Lower Upper
142 100
141 88.8 72.1 108.1
116 4.0 2.9 4.3

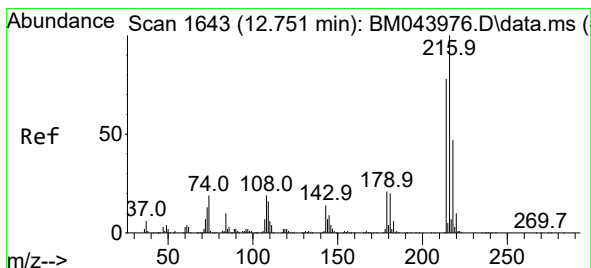
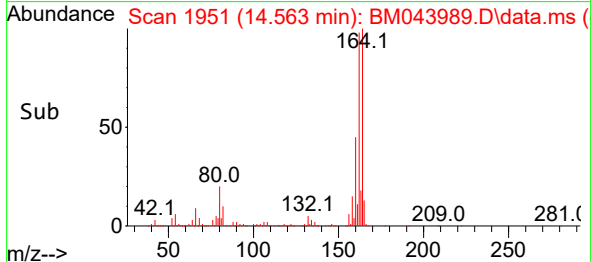
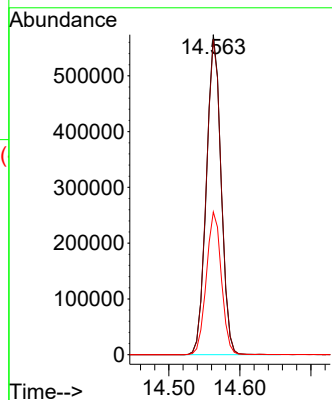
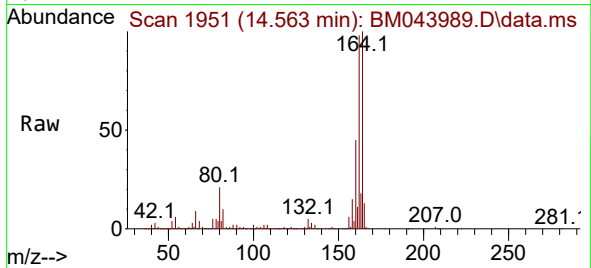




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1951
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

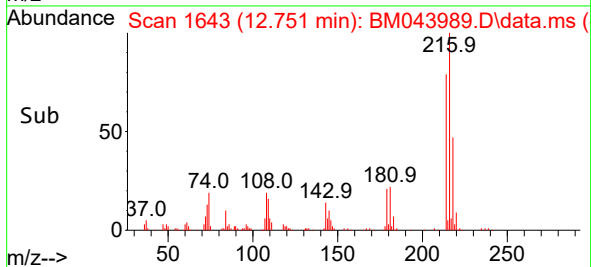
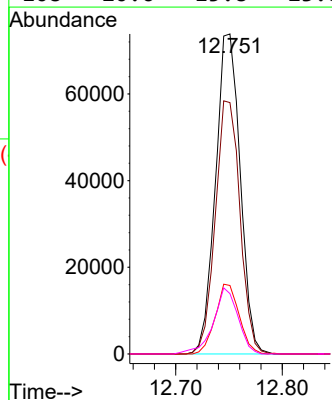
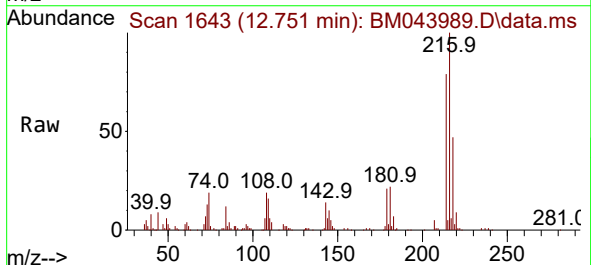
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

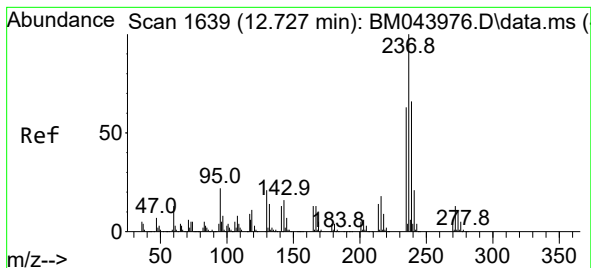
Tgt Ion:164 Resp: 822428
Ion Ratio Lower Upper
164 100
162 98.4 79.0 118.4
160 44.6 35.8 53.8



#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.098 ng
RT: 12.751 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:216 Resp: 118904
Ion Ratio Lower Upper
216 100
214 78.8 62.6 94.0
179 21.2 16.7 25.1
108 20.6 15.8 23.8





#41

Hexachlorocyclopentadiene

Concen: 5.623 ng

RT: 12.722 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

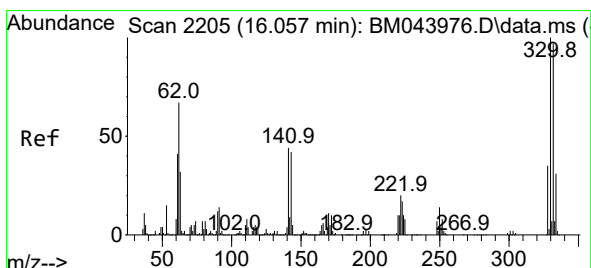
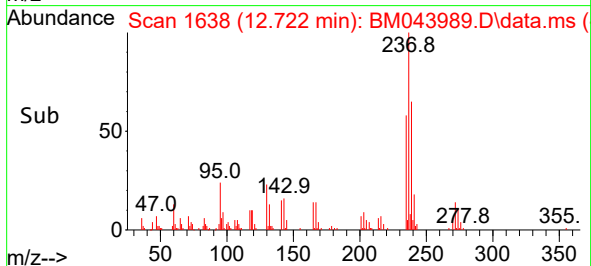
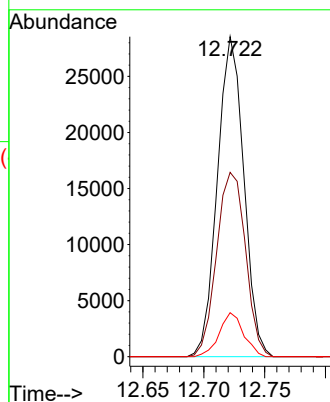
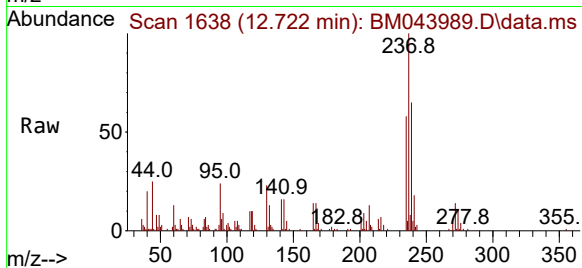
Tgt Ion:237 Resp: 43138

Ion Ratio Lower Upper

237 100

235 57.6 43.5 83.5

272 13.8 0.0 33.2



#42

2,4,6-Tribromophenol

Concen: 102.024 ng

RT: 16.057 min Scan# 2205

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

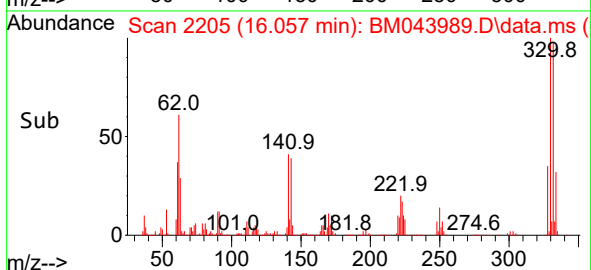
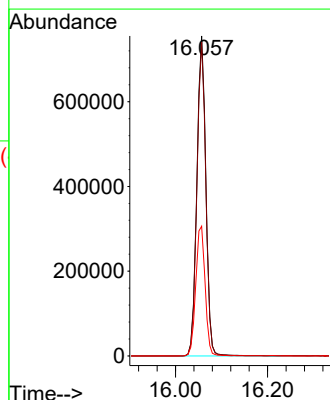
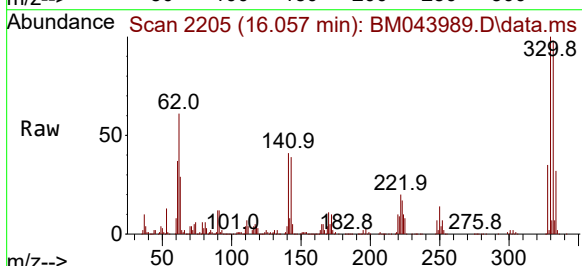
Tgt Ion:330 Resp: 1022820

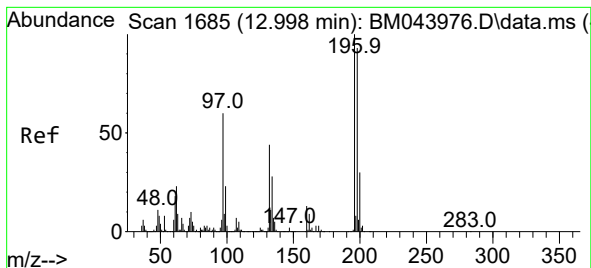
Ion Ratio Lower Upper

330 100

332 97.1 77.6 116.4

141 42.3 33.5 50.3





#43

2,4,6-Trichlorophenol

Concen: 4.169 ng

RT: 12.998 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

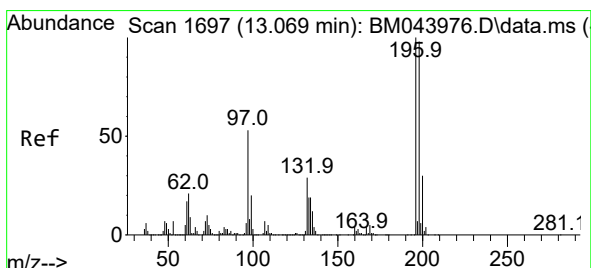
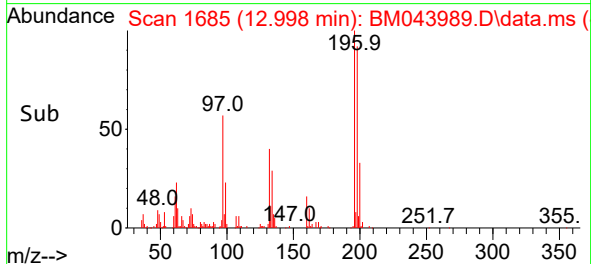
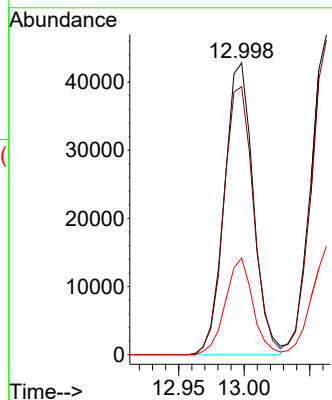
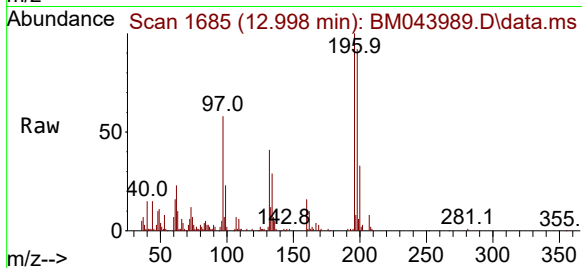
Tgt Ion:196 Resp: 65719

Ion Ratio Lower Upper

196 100

198 91.8 74.2 111.2

200 33.1 23.8 35.8



#44

2,4,5-Trichlorophenol

Concen: 4.112 ng

RT: 13.063 min Scan# 1696

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Tgt Ion:196 Resp: 73944

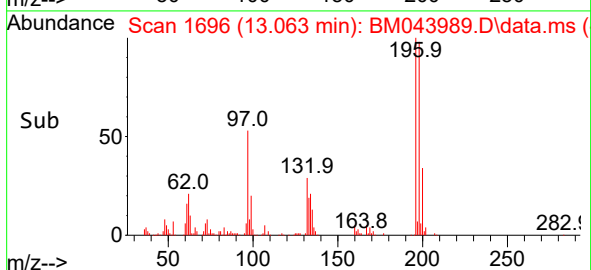
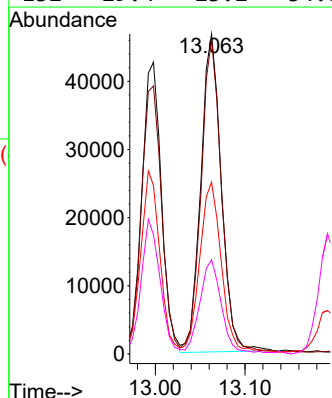
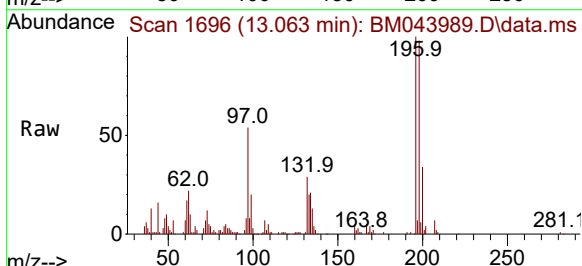
Ion Ratio Lower Upper

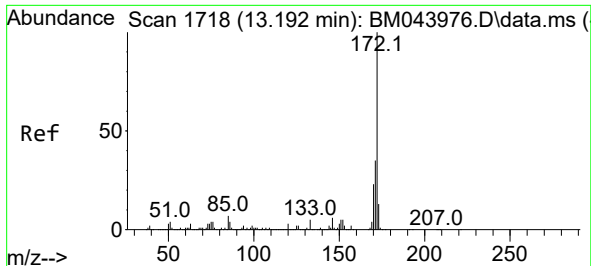
196 100

198 98.4 78.1 117.1

97 53.7 42.2 63.2

132 29.4 23.2 34.8

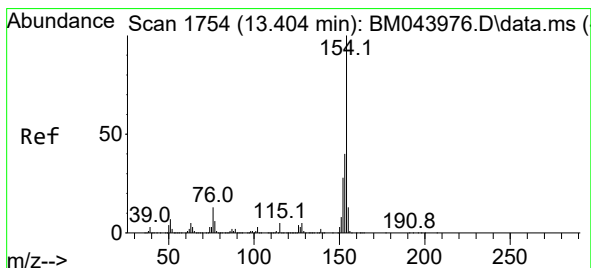
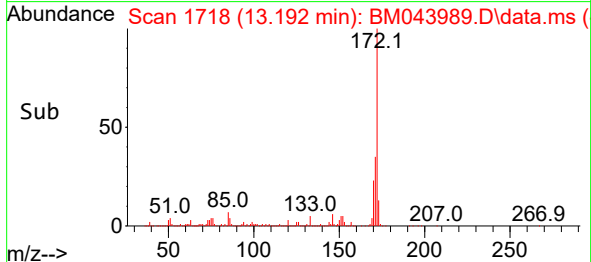
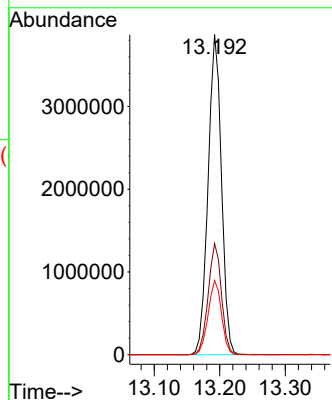
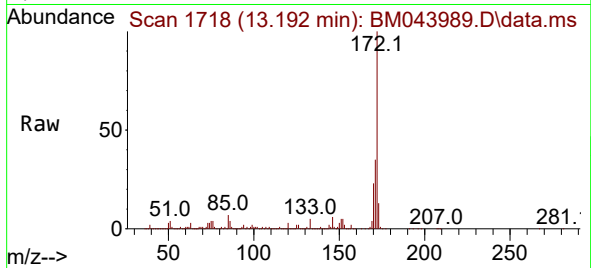




#45
2-Fluorobiphenyl
Concen: 91.805 ng
RT: 13.192 min Scan# 1718
Delta R.T. 0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

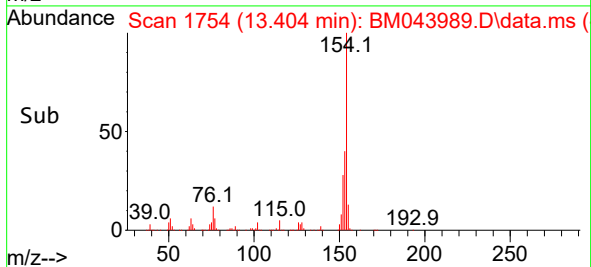
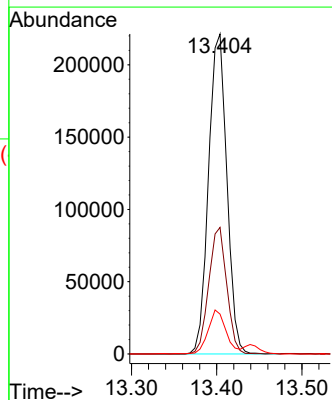
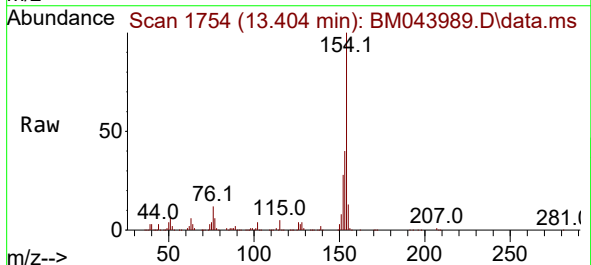
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

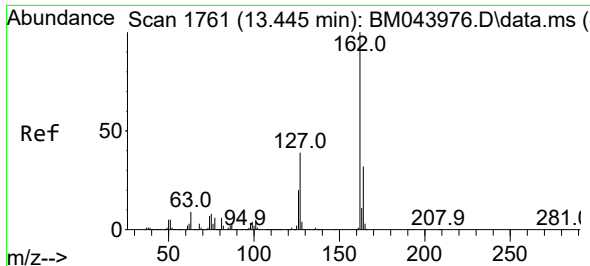
Tgt Ion:172 Resp: 5494827
Ion Ratio Lower Upper
172 100
171 34.7 27.9 41.9
170 23.2 18.6 28.0



#46
1,1'-Biphenyl
Concen: 5.105 ng
RT: 13.404 min Scan# 1754
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:154 Resp: 330179
Ion Ratio Lower Upper
154 100
153 39.6 19.8 59.8
76 12.4 0.0 33.0

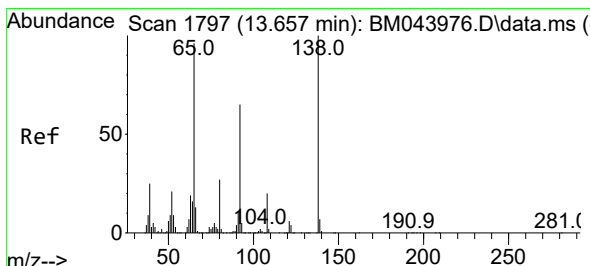
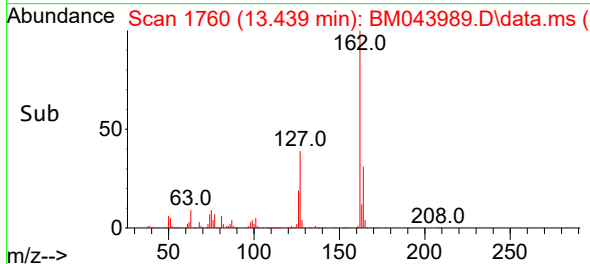
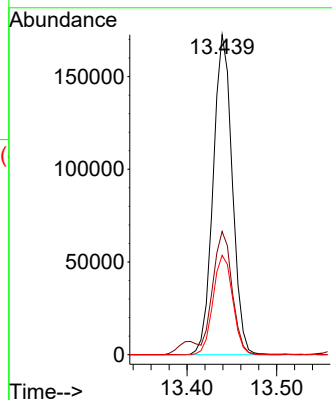
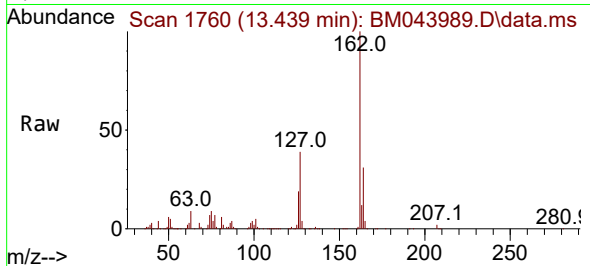




#47
2-Chloronaphthalene
Concen: 4.953 ng
RT: 13.439 min Scan# 1760
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

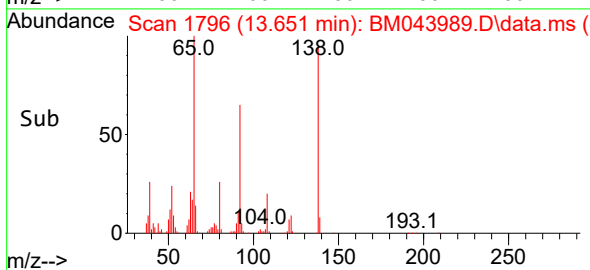
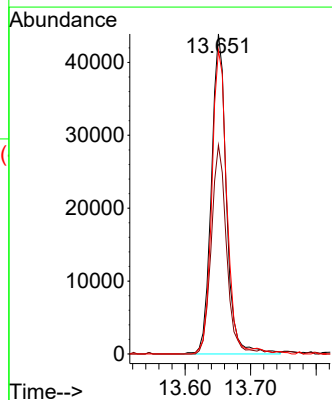
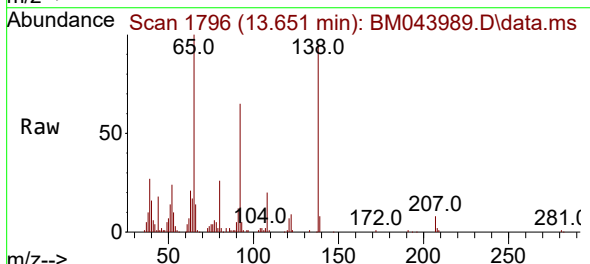
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

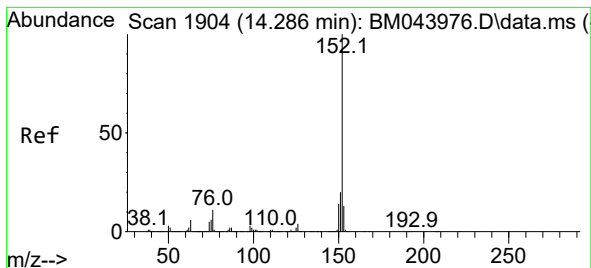
Tgt Ion:162 Resp: 255450
Ion Ratio Lower Upper
162 100
127 38.5 31.0 46.6
164 31.1 25.8 38.6



#48
2-Nitroaniline
Concen: 4.179 ng
RT: 13.651 min Scan# 1796
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 65 Resp: 70096
Ion Ratio Lower Upper
65 100
92 65.3 53.6 80.4
138 94.9 83.0 124.6





#49

Acenaphthylene

Concen: 5.175 ng

RT: 14.286 min Scan# 1904

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

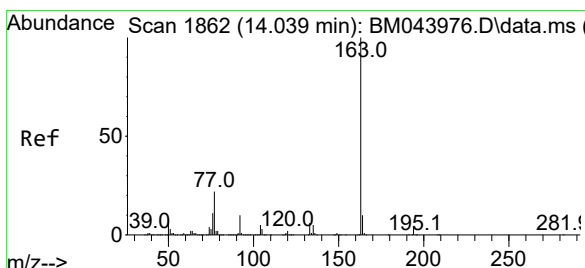
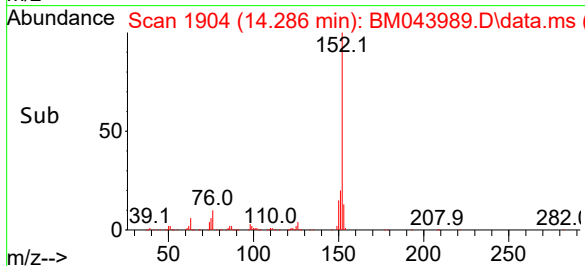
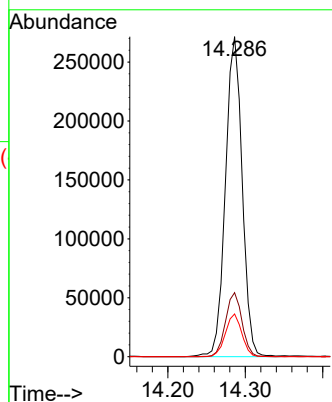
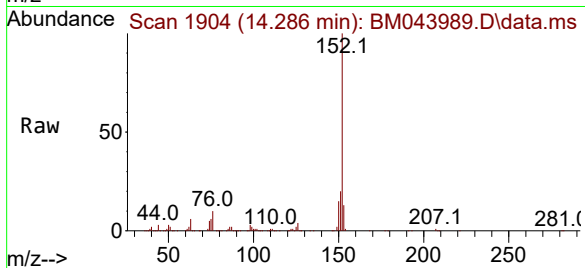
Tgt Ion:152 Resp: 408002

Ion Ratio Lower Upper

152 100

151 20.0 15.9 23.9

153 13.4 10.4 15.6



#50

Dimethylphthalate

Concen: 4.887 ng

RT: 14.033 min Scan# 1861

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

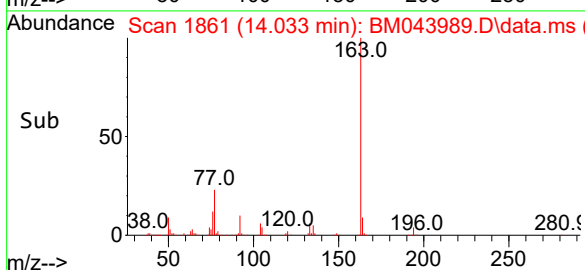
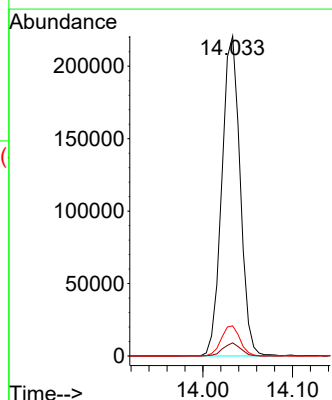
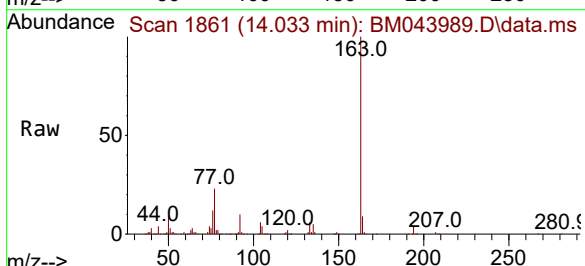
Tgt Ion:163 Resp: 312189

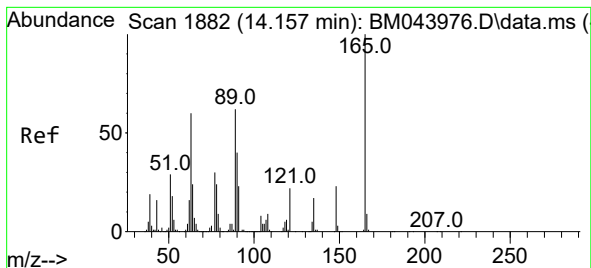
Ion Ratio Lower Upper

163 100

194 4.1 3.1 4.7

164 9.4 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 4.181 ng

RT: 14.151 min Scan# 1881

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

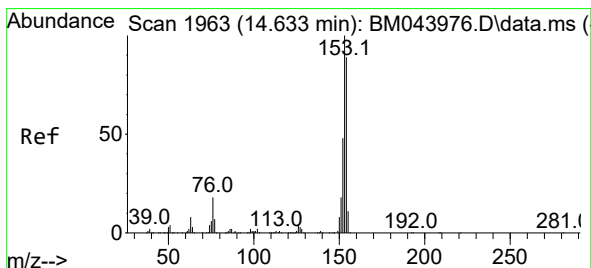
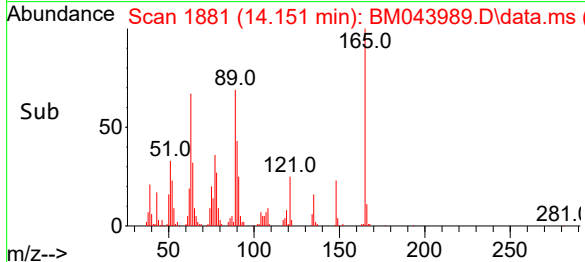
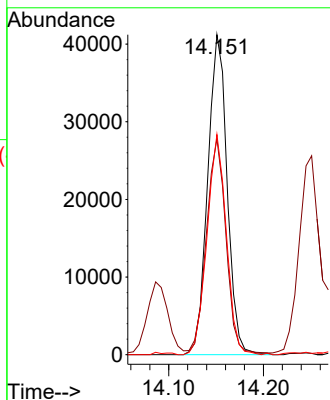
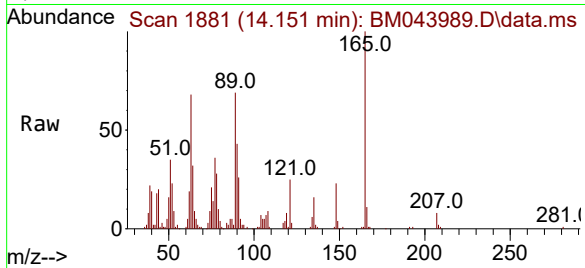
Tgt Ion:165 Resp: 58716

Ion Ratio Lower Upper

165 100

63 67.5 51.1 76.7

89 68.8 49.5 74.3



#52

Acenaphthene

Concen: 4.835 ng

RT: 14.627 min Scan# 1962

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

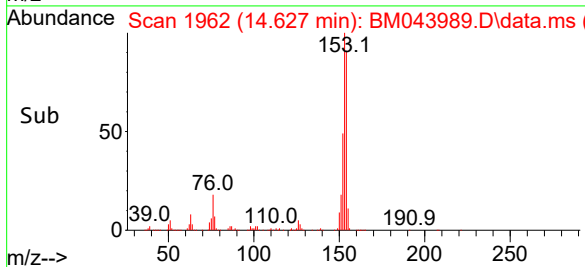
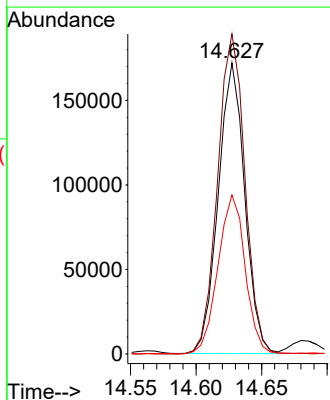
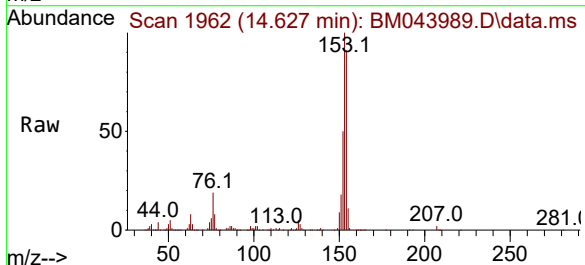
Tgt Ion:154 Resp: 241638

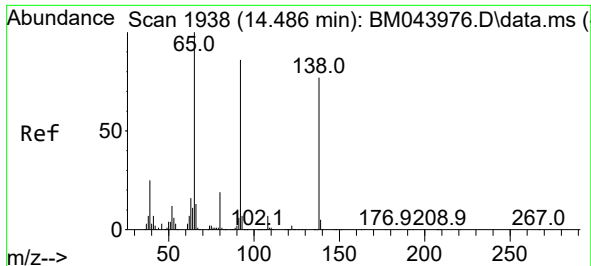
Ion Ratio Lower Upper

154 100

153 109.9 90.1 135.1

152 54.6 43.6 65.4

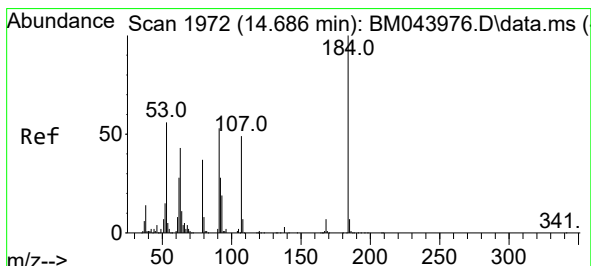
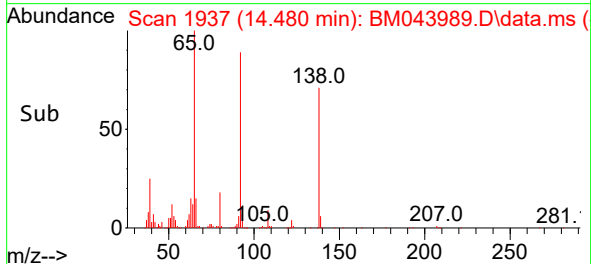
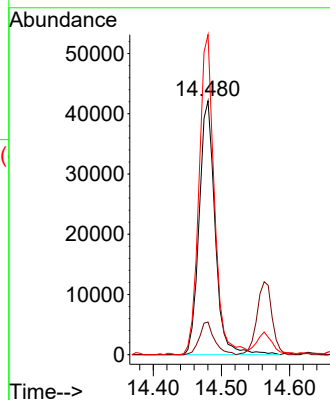
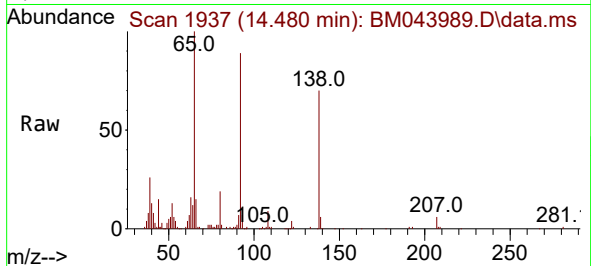




#53
3-Nitroaniline
Concen: 4.202 ng
RT: 14.480 min Scan# 1938
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

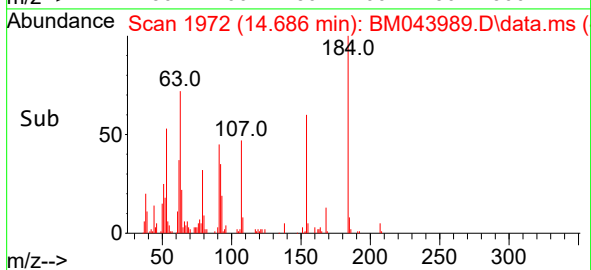
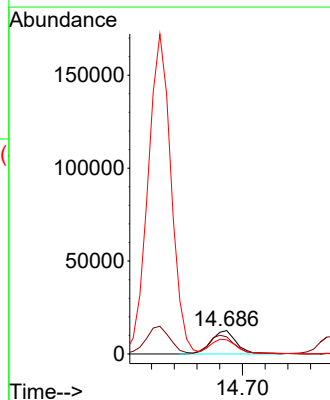
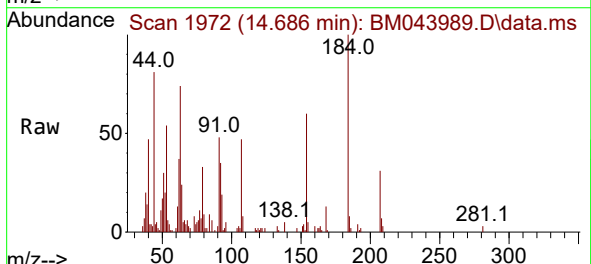
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

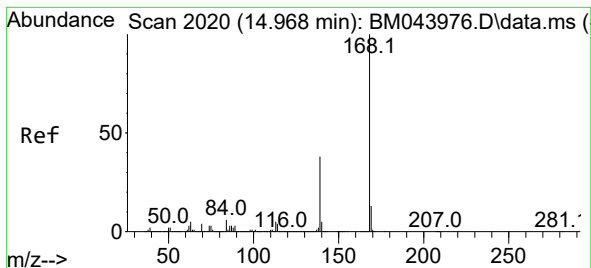
Tgt Ion:138 Resp: 68502
Ion Ratio Lower Upper
138 100
108 12.9 7.8 11.6#
92 126.1 89.7 134.5



#54
2,4-Dinitrophenol
Concen: 9.409 ng
RT: 14.686 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:184 Resp: 19092
Ion Ratio Lower Upper
184 100
63 73.6 62.8 94.2
154 60.2 51.4 77.2





#55

Dibenzofuran

Concen: 5.104 ng

RT: 14.963 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

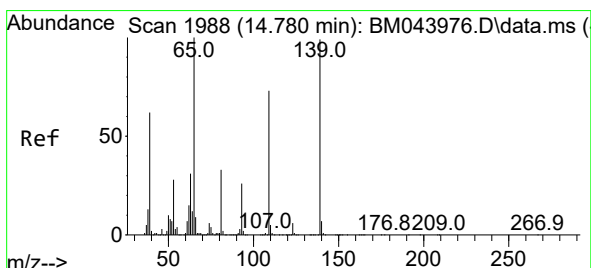
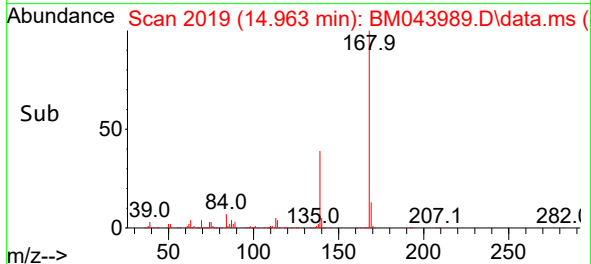
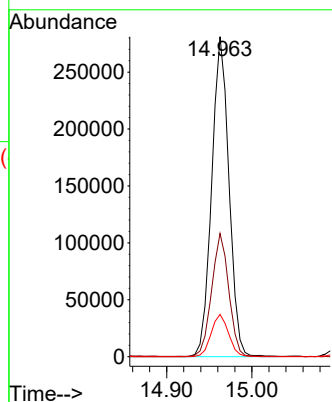
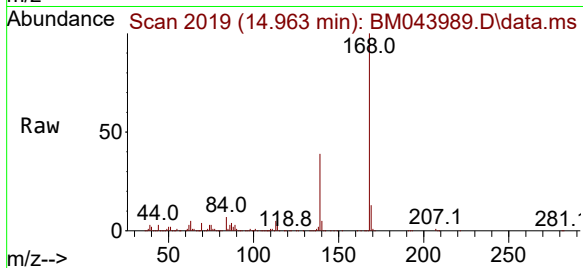
Tgt Ion:168 Resp: 396977

Ion Ratio Lower Upper

168 100

139 38.5 30.7 46.1

169 13.2 10.5 15.7



#56

4-Nitrophenol

Concen: 3.737 ng

RT: 14.780 min Scan# 1988

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

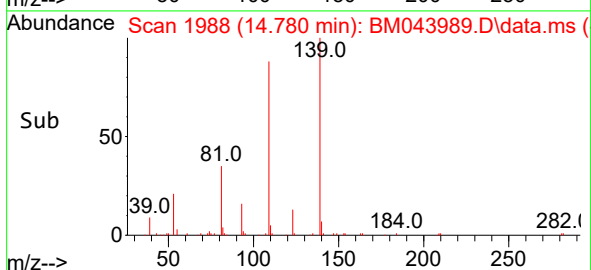
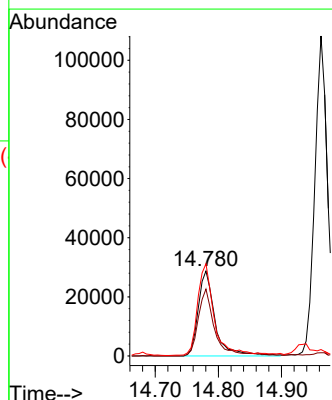
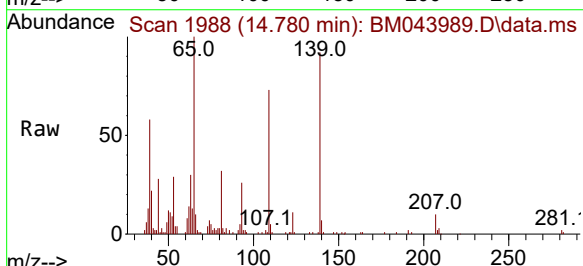
Tgt Ion:139 Resp: 53244

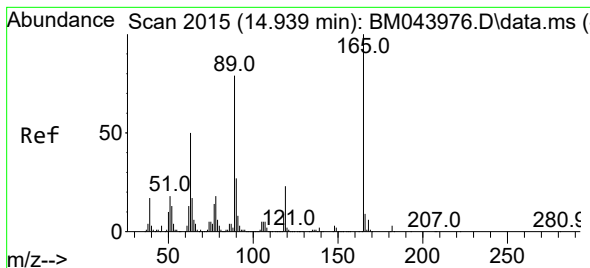
Ion Ratio Lower Upper

139 100

109 78.8 53.2 93.2

65 108.5 80.7 120.7





#57

2,4-Dinitrotoluene

Concen: 3.754 ng

RT: 14.933 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BM043989.D

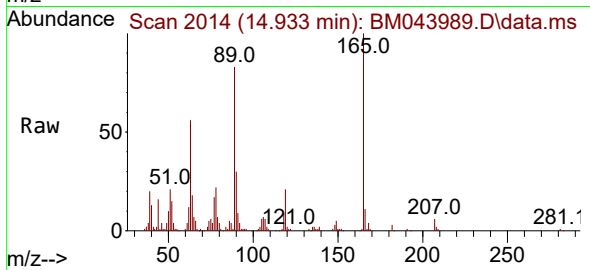
Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023



Tgt Ion:165 Resp: 73382

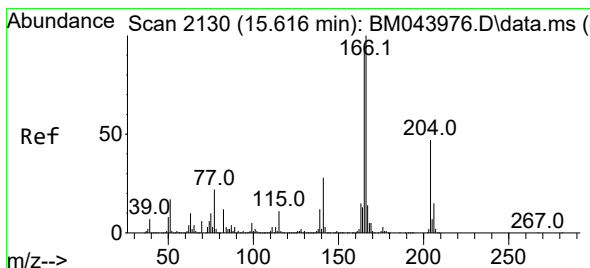
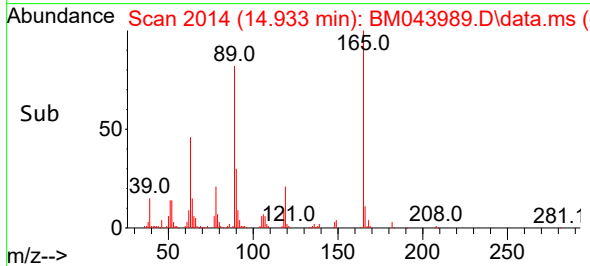
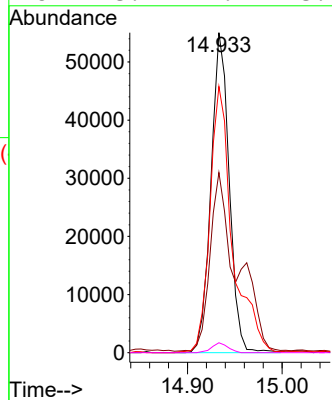
Ion Ratio Lower Upper

165 100

63 56.3 40.2 60.4

89 83.2 63.3 94.9

182 3.1 2.1 3.1



#58

Fluorene

Concen: 4.815 ng

RT: 15.615 min Scan# 2130

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

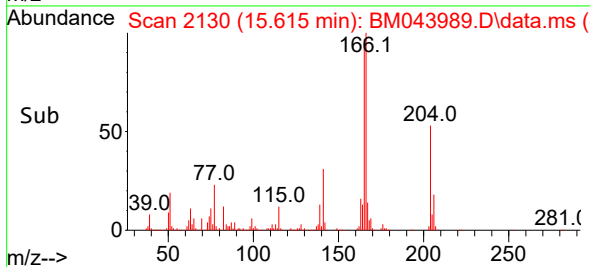
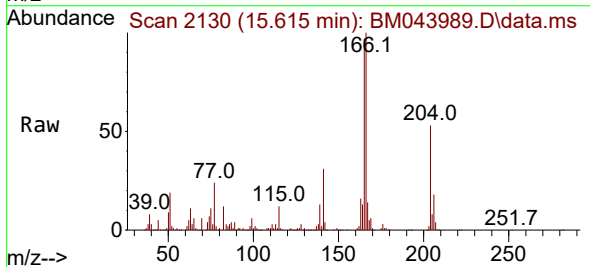
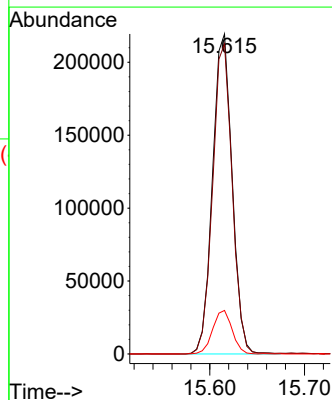
Tgt Ion:166 Resp: 316310

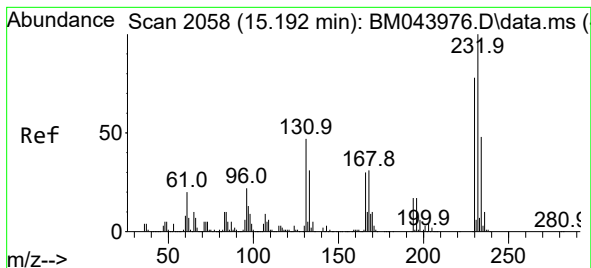
Ion Ratio Lower Upper

166 100

165 96.9 76.3 114.5

167 13.6 10.9 16.3

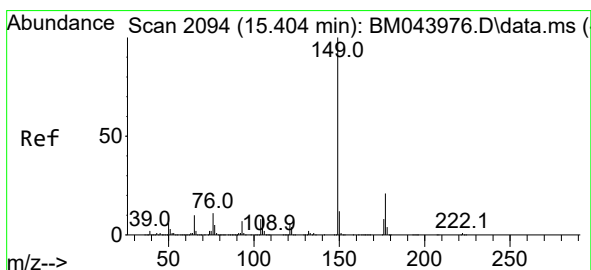
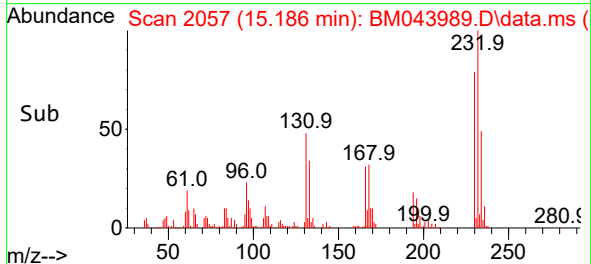
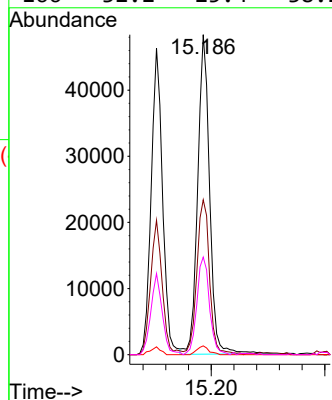
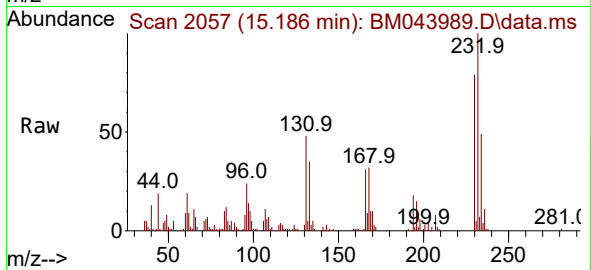




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.557 ng
RT: 15.186 min Scan# 2057
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

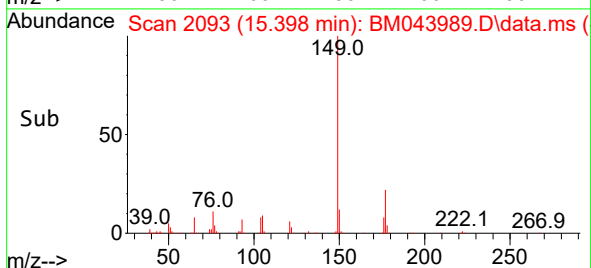
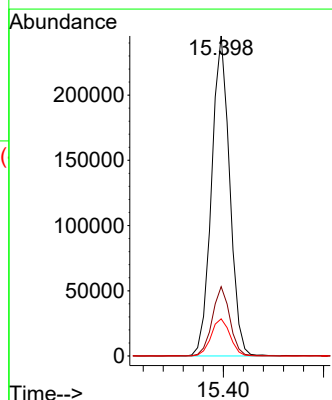
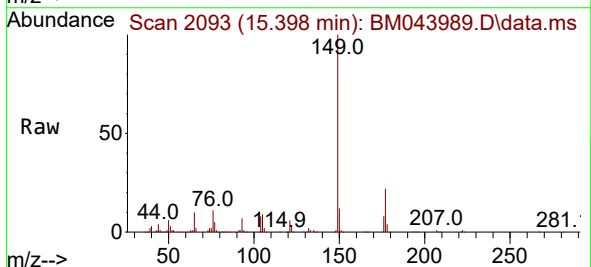
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

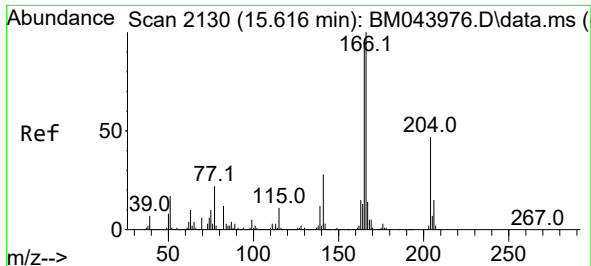
Tgt Ion:232 Resp: 70657
Ion Ratio Lower Upper
232 100
131 51.7 39.8 59.6
130 2.7 2.0 3.0
166 32.2 25.4 38.2



#60
Diethylphthalate
Concen: 4.649 ng
RT: 15.398 min Scan# 2093
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:149 Resp: 307474
Ion Ratio Lower Upper
149 100
177 21.7 17.1 25.7
150 11.6 9.8 14.6

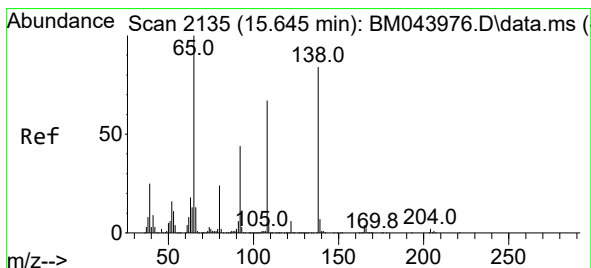
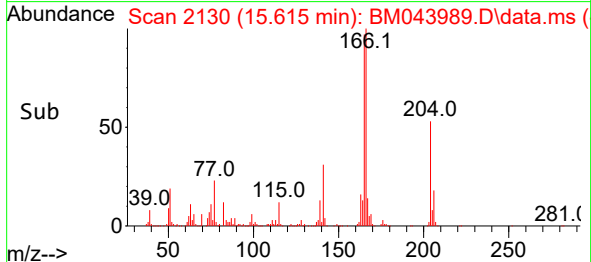
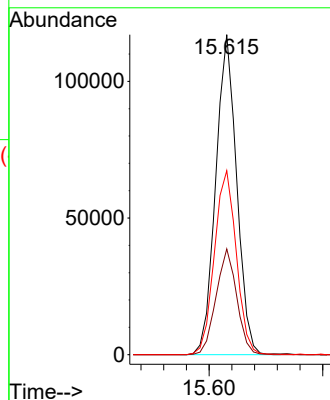
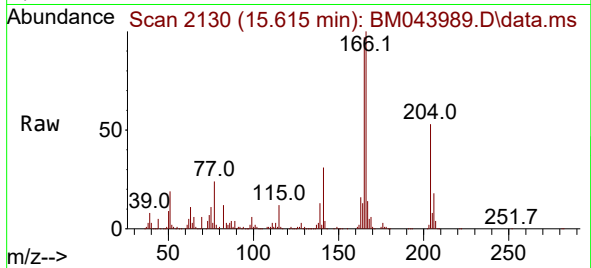




#61
4-Chlorophenyl-phenylether
Concen: 4.896 ng
RT: 15.615 min Scan# 2130
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

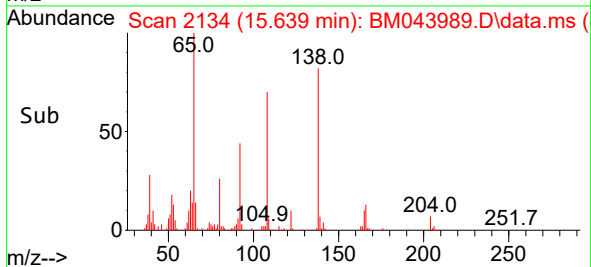
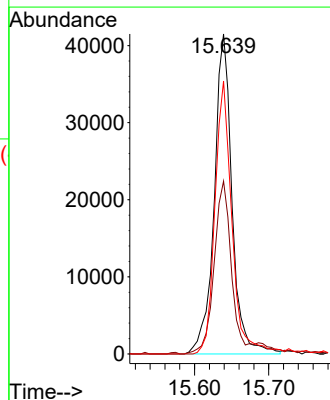
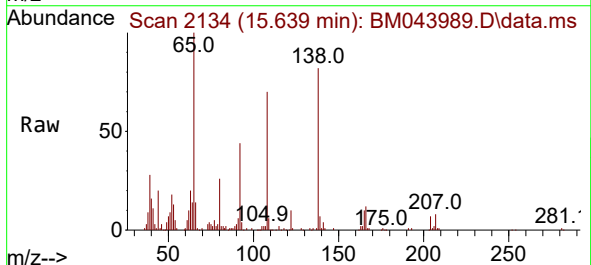
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

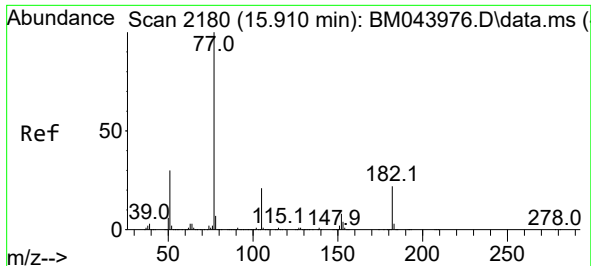
Tgt Ion:204 Resp: 150050
Ion Ratio Lower Upper
204 100
206 33.0 26.2 39.2
141 57.5 48.6 72.8



#62
4-Nitroaniline
Concen: 3.894 ng
RT: 15.639 min Scan# 2134
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion:138 Resp: 69409
Ion Ratio Lower Upper
138 100
92 54.0 32.7 72.7
108 85.3 60.0 100.0

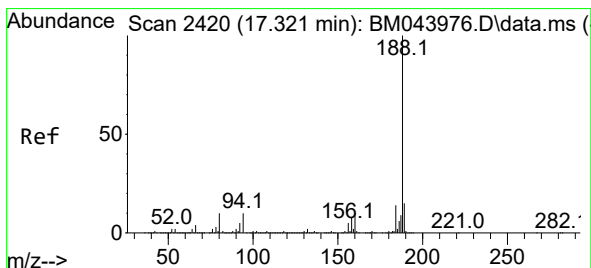
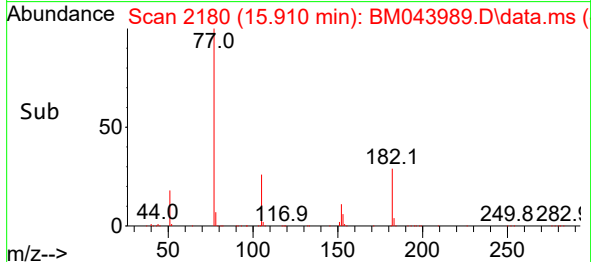
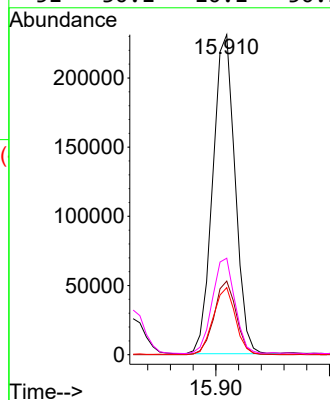
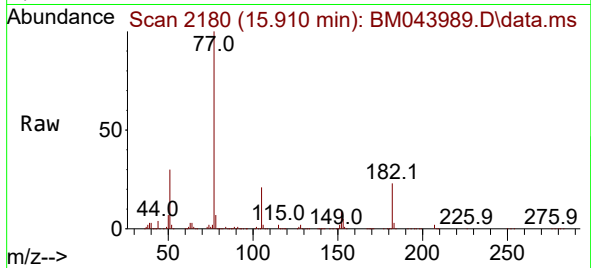




#63
Azobenzene
Concen: 4.755 ng
RT: 15.910 min Scan# 2180
Delta R.T. -0.000 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

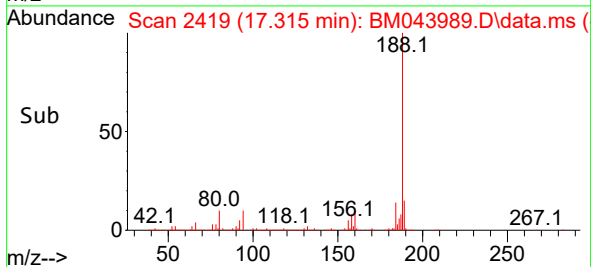
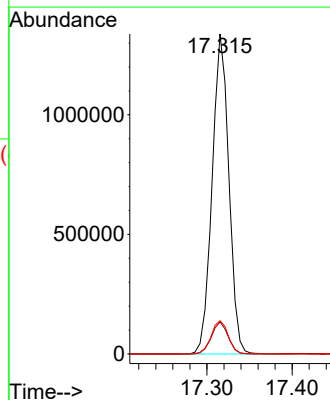
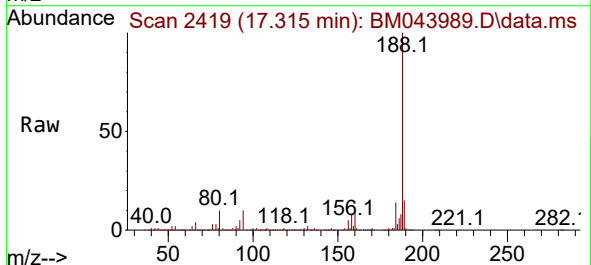
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

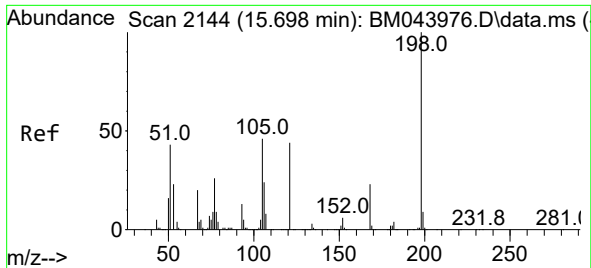
Tgt Ion: 77 Resp: 314077
Ion Ratio Lower Upper
77 100
182 23.0 2.0 42.0
105 20.9 0.5 40.5
51 30.1 10.1 50.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.315 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion: 188 Resp: 1823037
Ion Ratio Lower Upper
188 100
94 10.0 7.7 11.5
80 10.4 8.2 12.4

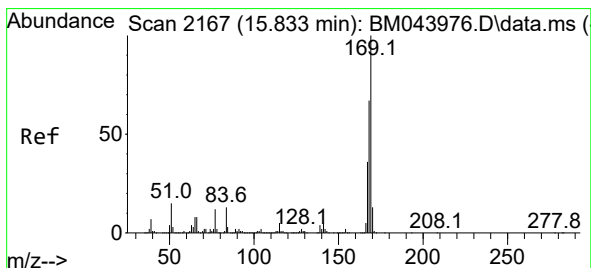
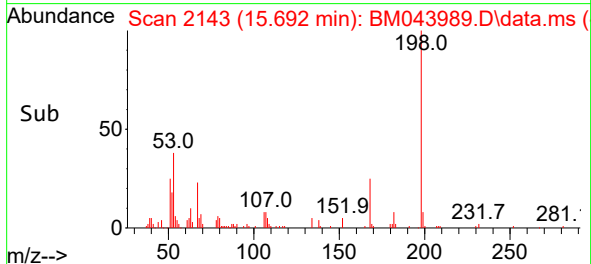
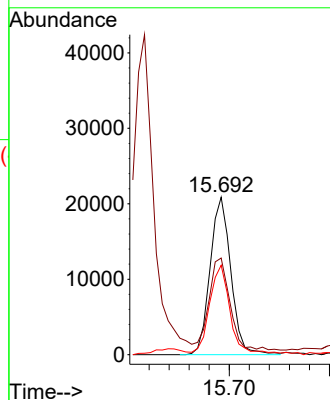
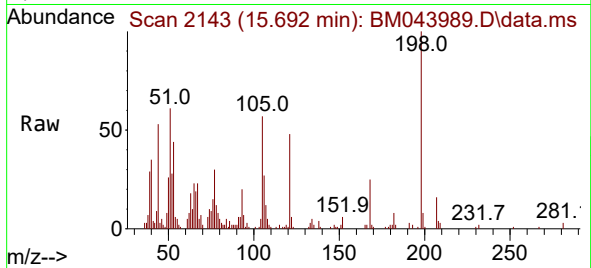




#65
4,6-Dinitro-2-methylphenol
Concen: 8.524 ng
RT: 15.692 min Scan# 2143
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

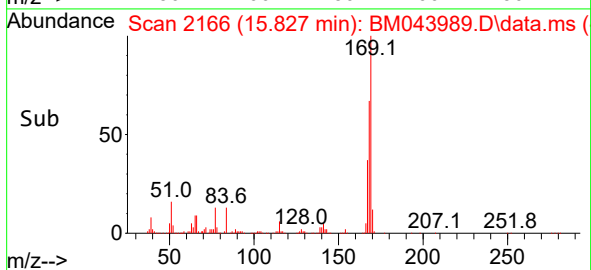
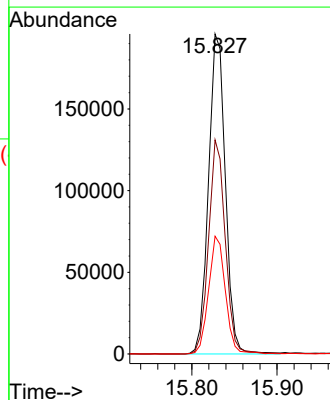
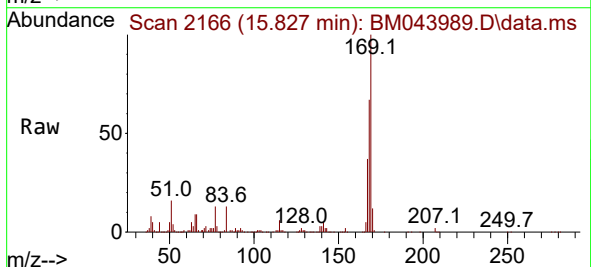
Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2023

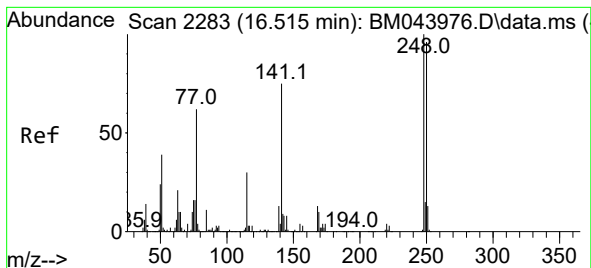
Tgt Ion	Ratio	Lower	Upper
198	100		
51	61.4	31.9	71.9
105	56.8	28.1	68.1



#66
n-Nitrosodiphenylamine
Concen: 4.949 ng
RT: 15.827 min Scan# 2166
Delta R.T. -0.006 min
Lab File: BM043989.D
Acq: 06 Feb 2024 13:26

Tgt Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.4	80.2
167	36.8	29.0	43.4





#67

4-Bromophenyl-phenylether

Concen: 4.021 ng

RT: 16.510 min Scan# 21

Delta R.T. -0.005 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

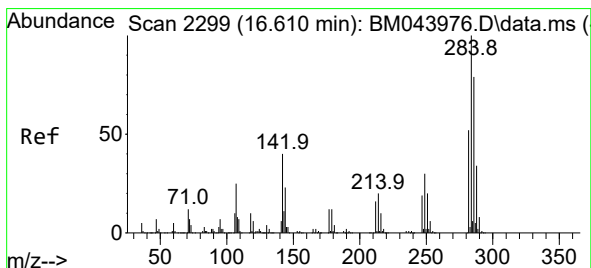
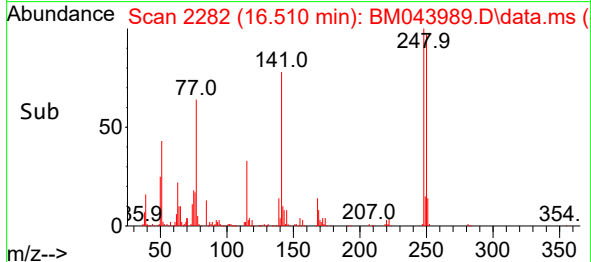
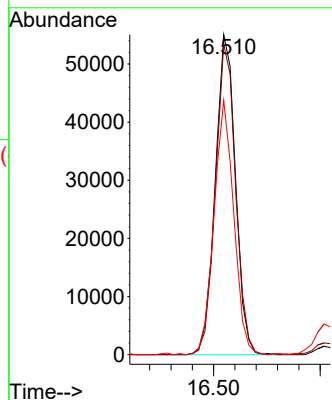
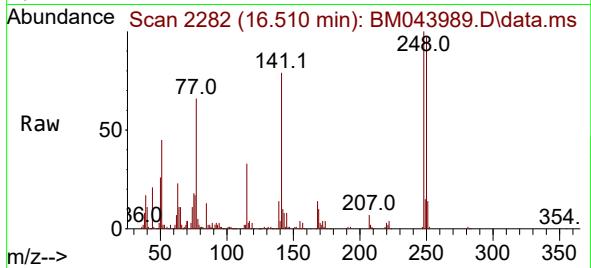
Tgt Ion:248 Resp: 72220

Ion Ratio Lower Upper

248 100

250 97.0 77.0 115.4

141 79.5 59.9 89.9



#68

Hexachlorobenzene

Concen: 4.856 ng

RT: 16.610 min Scan# 2299

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

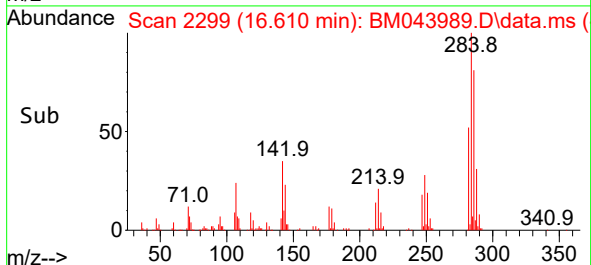
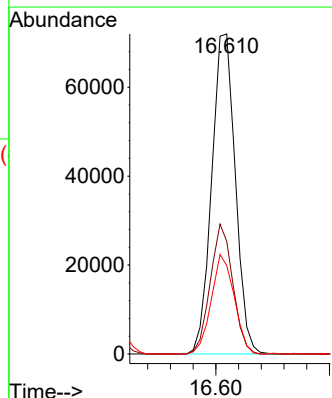
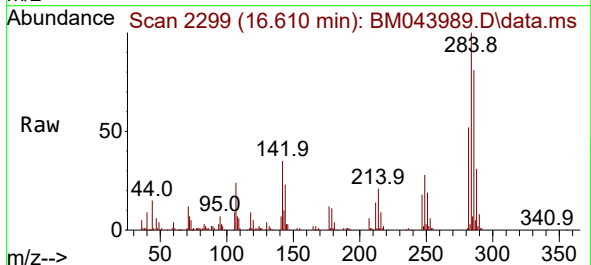
Tgt Ion:284 Resp: 103973

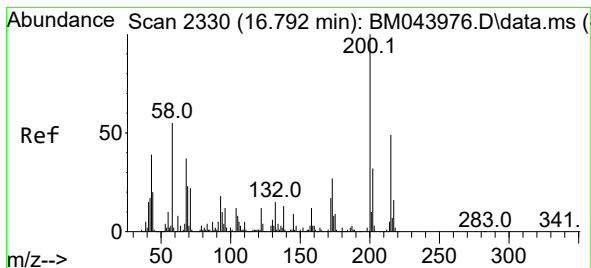
Ion Ratio Lower Upper

284 100

142 35.1 32.2 48.4

249 27.6 24.4 36.6





#69

Atrazine

Concen: 5.583 ng

RT: 16.786 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

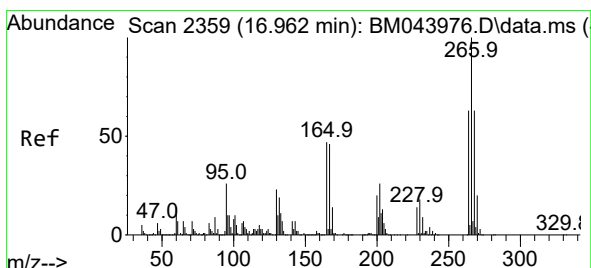
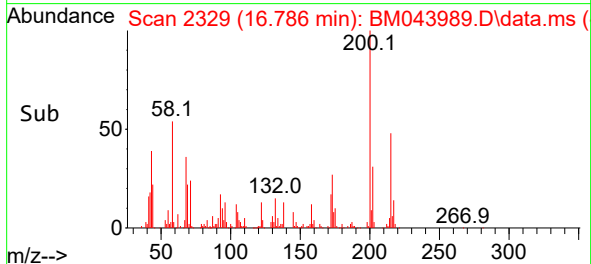
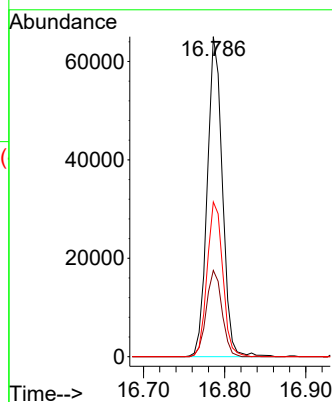
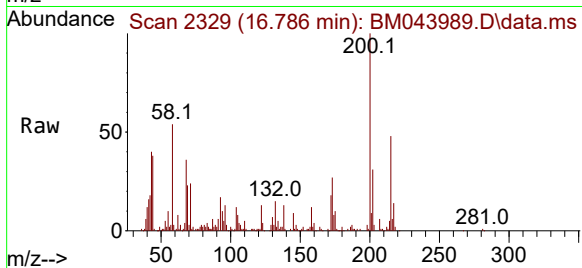
Tgt Ion:200 Resp: 83870

Ion Ratio Lower Upper

200 100

173 26.9 7.3 47.3

215 48.3 28.7 68.7



#70

Pentachlorophenol

Concen: 3.386 ng

RT: 16.957 min Scan# 2358

Delta R.T. -0.005 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

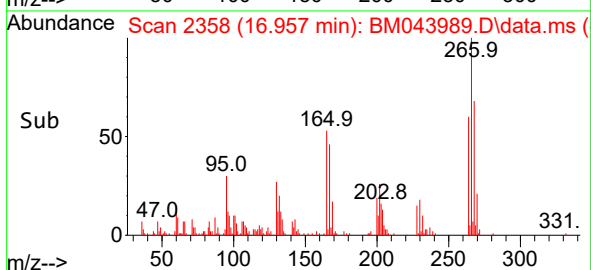
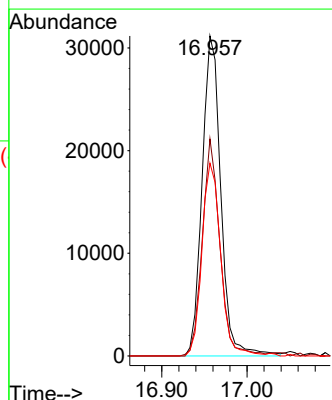
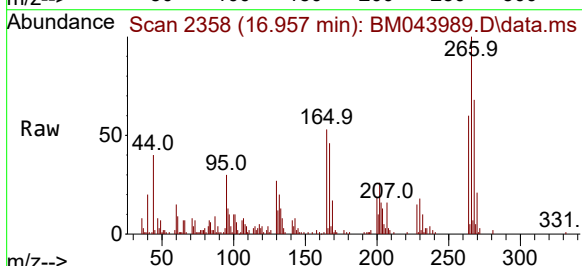
Tgt Ion:266 Resp: 47608

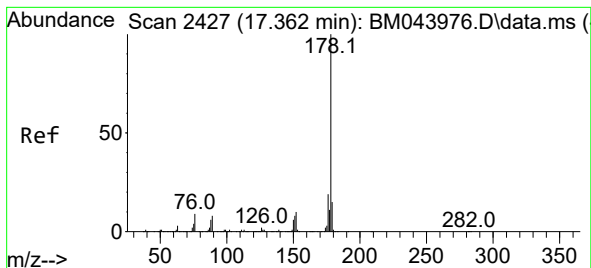
Ion Ratio Lower Upper

266 100

268 67.8 50.6 76.0

264 60.2 50.6 76.0





#71

Phenanthrene

Concen: 5.149 ng

RT: 17.357 min Scan# 2426

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

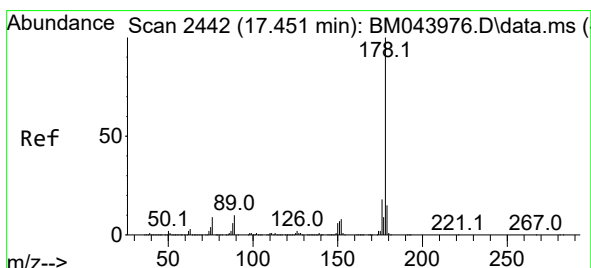
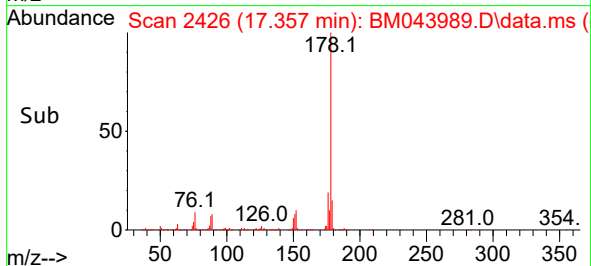
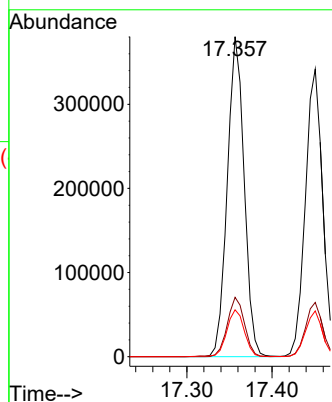
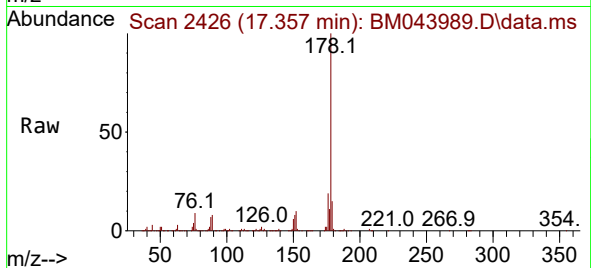
Tgt Ion:178 Resp: 522849

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 14.6 12.4 18.6



#72

Anthracene

Concen: 4.922 ng

RT: 17.451 min Scan# 2442

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

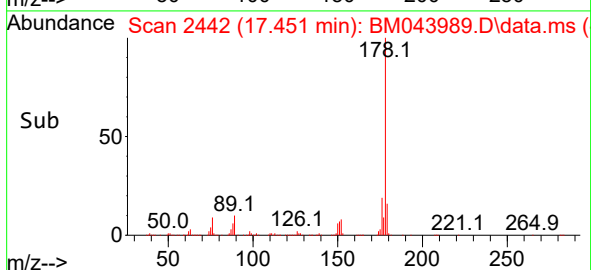
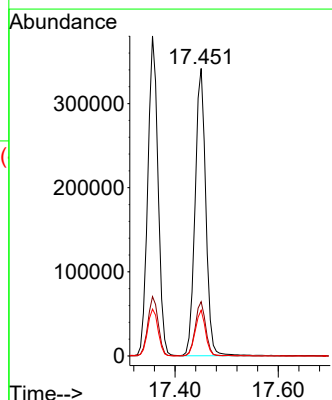
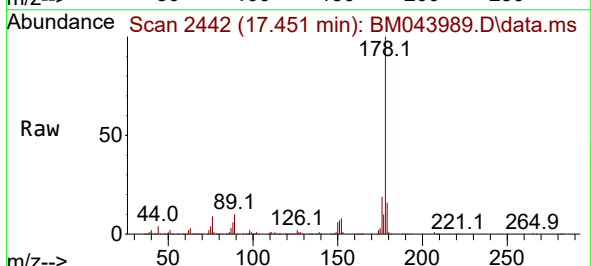
Tgt Ion:178 Resp: 489265

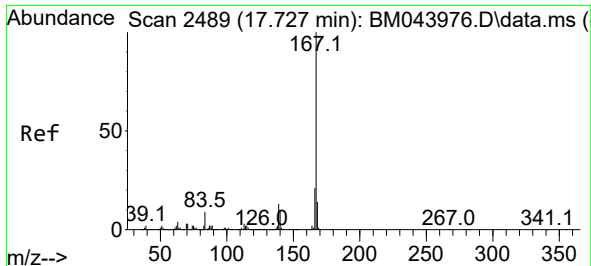
Ion Ratio Lower Upper

178 100

176 18.9 14.6 22.0

179 15.9 12.2 18.4

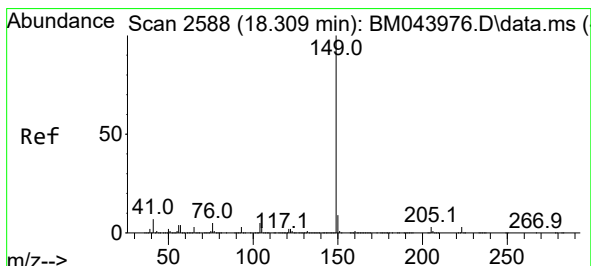
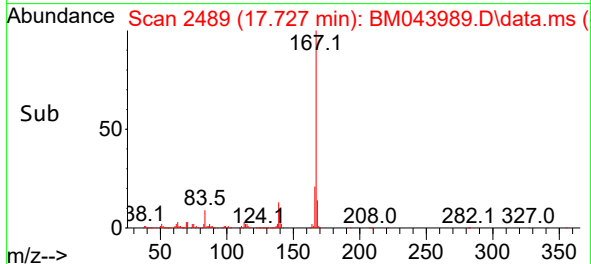
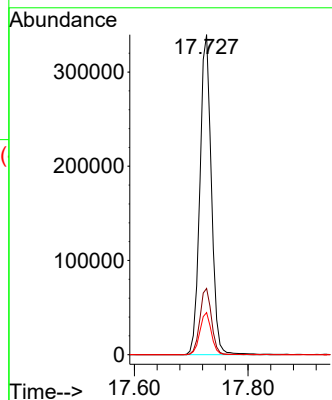
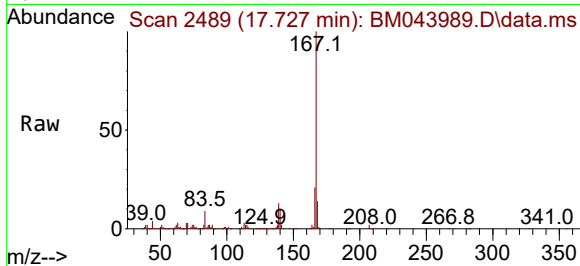




#73
 Carbazole
 Concen: 4.632 ng
 RT: 17.727 min Scan# 2489
 Delta R.T. -0.000 min
 Lab File: BM043989.D
 Acq: 06 Feb 2024 13:26

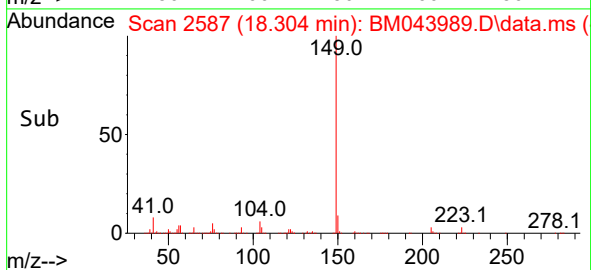
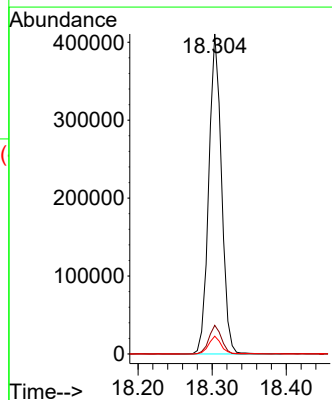
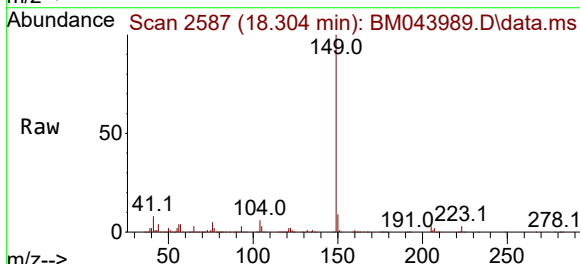
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2023

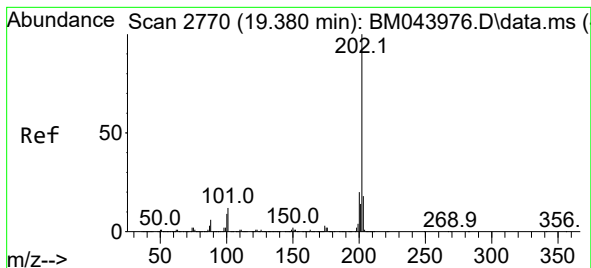
Tgt Ion:167 Resp: 476915
 Ion Ratio Lower Upper
 167 100
 166 20.7 17.1 25.7
 139 13.2 10.6 15.8



#74
 Di-n-butylphthalate
 Concen: 4.327 ng
 RT: 18.304 min Scan# 2587
 Delta R.T. -0.005 min
 Lab File: BM043989.D
 Acq: 06 Feb 2024 13:26

Tgt Ion:149 Resp: 488610
 Ion Ratio Lower Upper
 149 100
 150 9.0 7.4 11.0
 104 5.5 4.1 6.1





#75

Fluoranthene

Concen: 4.590 ng

RT: 19.380 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

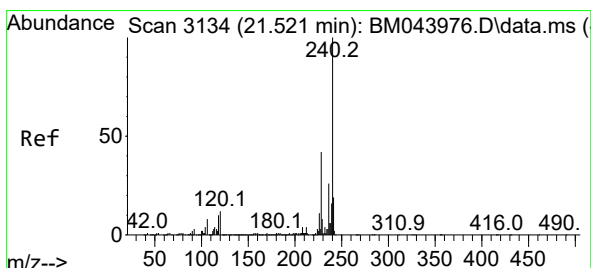
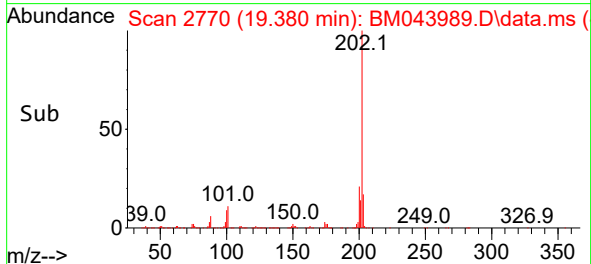
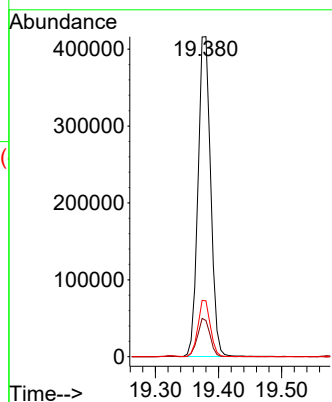
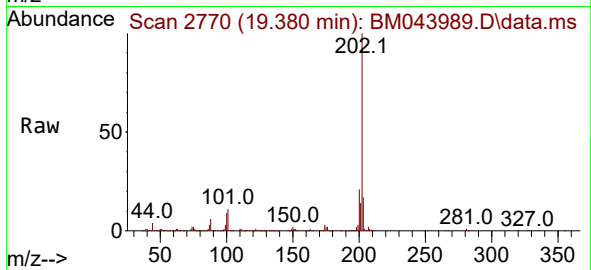
Tgt Ion:202 Resp: 576421

Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.9

203 17.5 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 3133

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

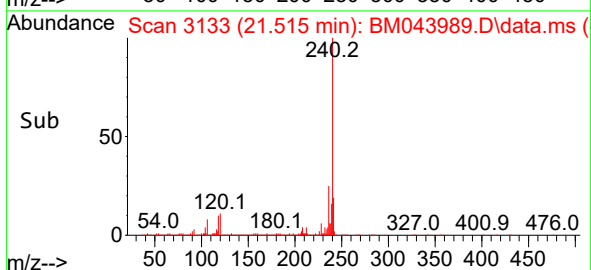
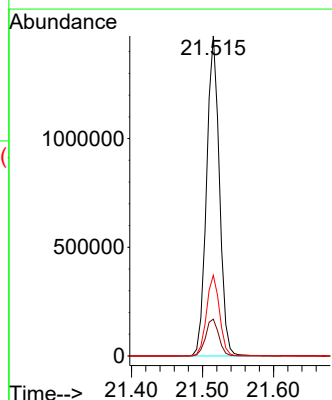
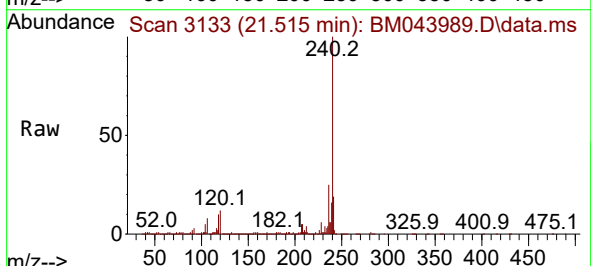
Tgt Ion:240 Resp: 1852695

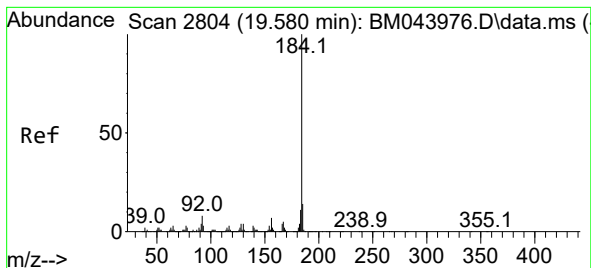
Ion Ratio Lower Upper

240 100

120 11.5 9.3 13.9

236 25.2 20.5 30.7





#77

Benzidine

Concen: 9.086 ng

RT: 19.574 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

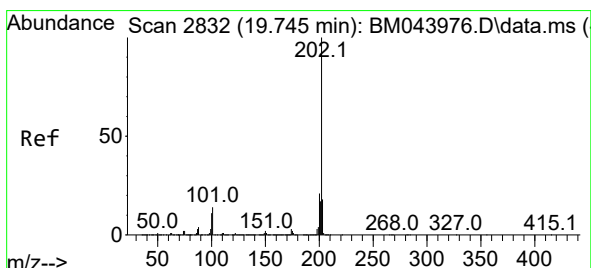
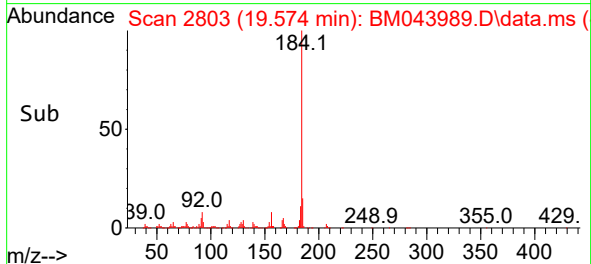
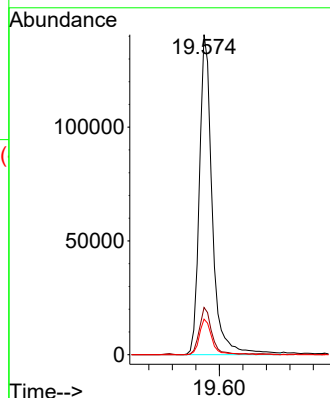
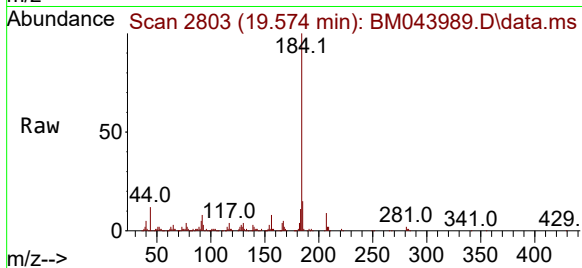
Tgt Ion:184 Resp: 213581

Ion Ratio Lower Upper

184 100

185 14.8 11.5 17.3

183 11.1 8.9 13.3



#78

Pyrene

Concen: 4.902 ng

RT: 19.739 min Scan# 2831

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

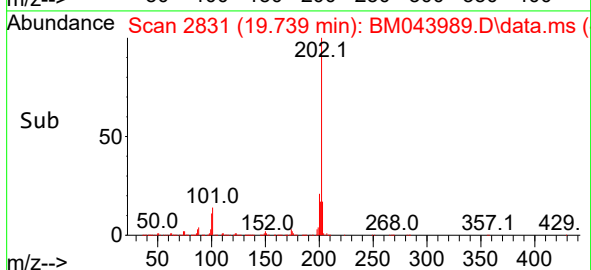
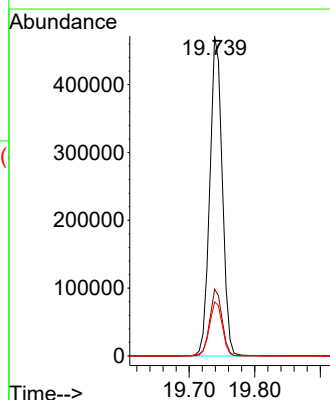
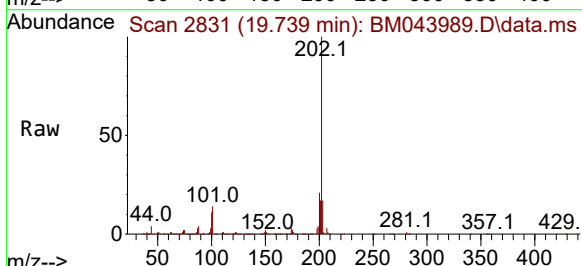
Tgt Ion:202 Resp: 624282

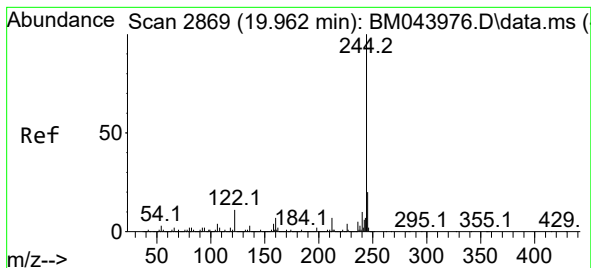
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 16.9 14.2 21.4





#79

Terphenyl-d14

Concen: 98.679 ng

RT: 19.956 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

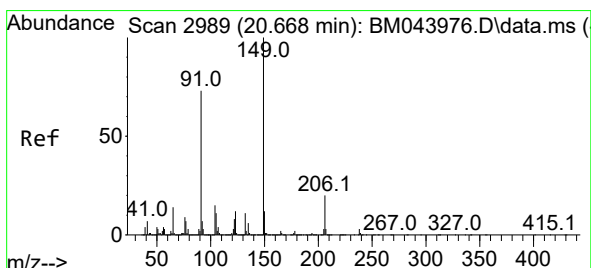
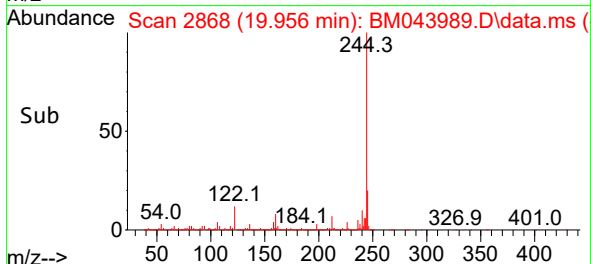
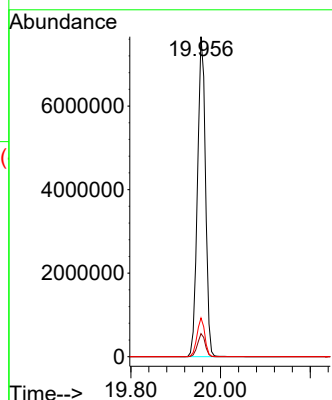
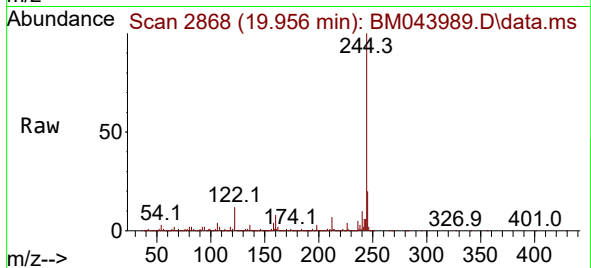
Tgt Ion:244 Resp: 9470626

Ion Ratio Lower Upper

244 100

212 7.2 5.5 8.3

122 12.1 8.7 13.1



#80

Butylbenzylphthalate

Concen: 4.093 ng

RT: 20.662 min Scan# 2988

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

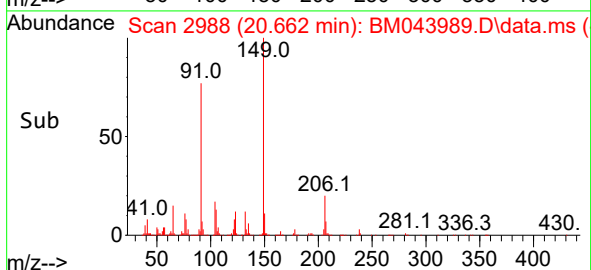
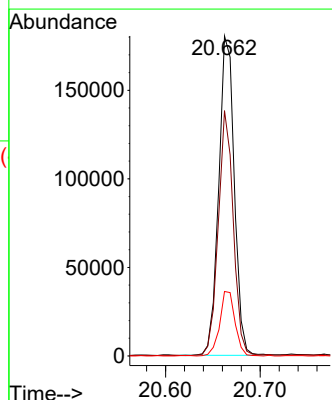
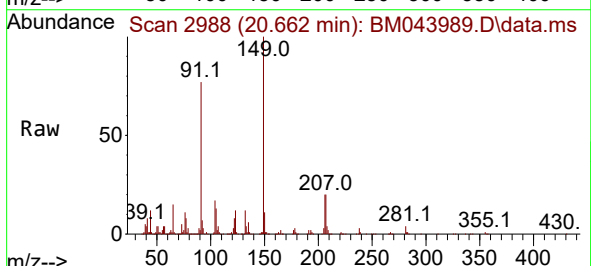
Tgt Ion:149 Resp: 206384

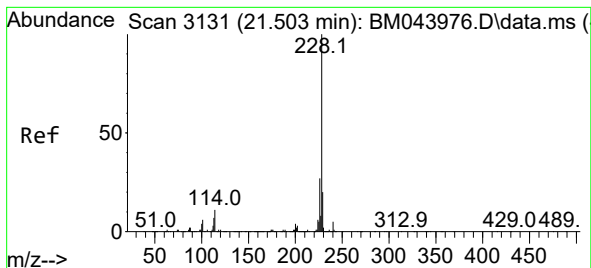
Ion Ratio Lower Upper

149 100

91 76.7 58.4 87.6

206 20.1 15.8 23.6





#81

Benzo(a)anthracene

Concen: 5.032 ng

RT: 21.497 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

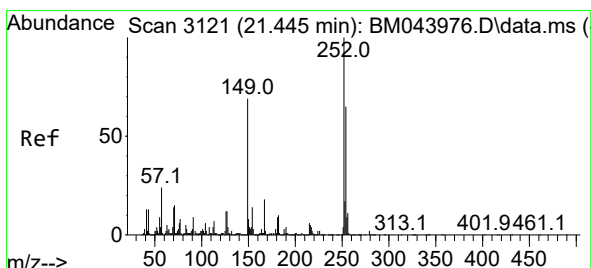
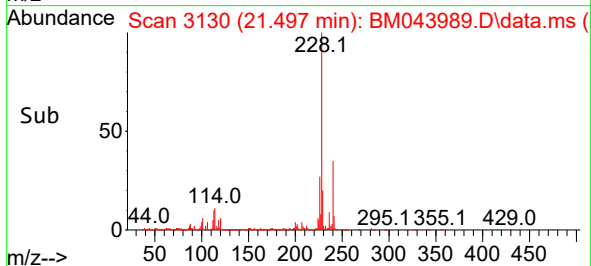
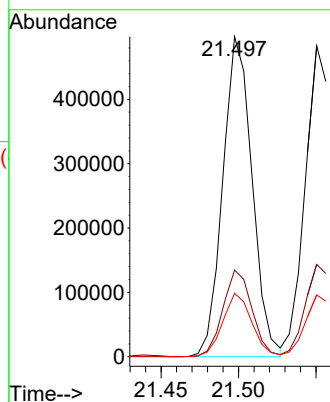
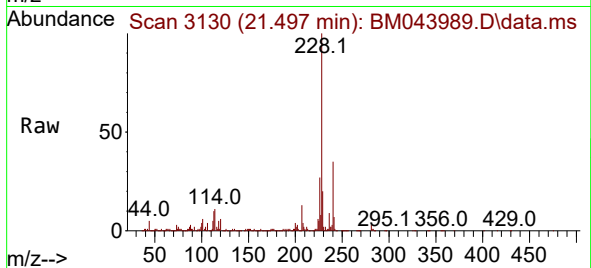
Tgt Ion:228 Resp: 654026

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.8

229 19.8 16.1 24.1



#82

3,3'-Dichlorobenzidine

Concen: 4.642 ng

RT: 21.439 min Scan# 3120

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

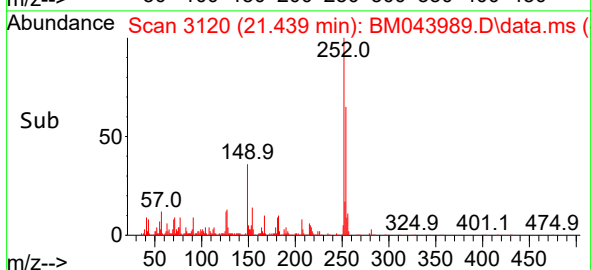
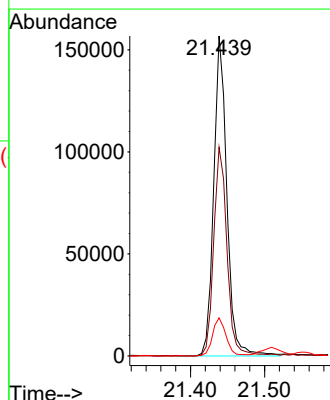
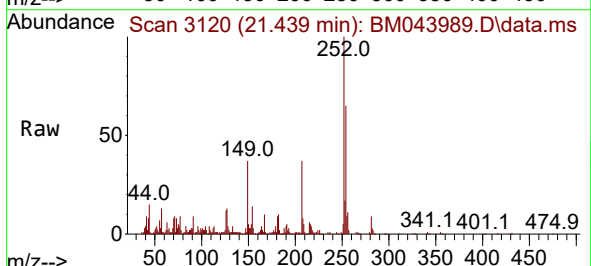
Tgt Ion:252 Resp: 192940

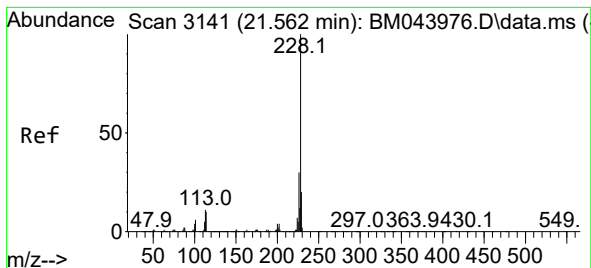
Ion Ratio Lower Upper

252 100

254 65.2 51.6 77.4

126 11.9 9.4 14.2





#83

Chrysene

Concen: 4.965 ng

RT: 21.550 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

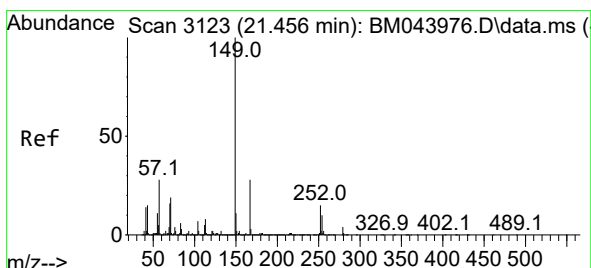
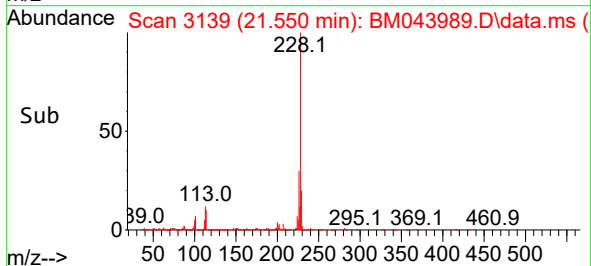
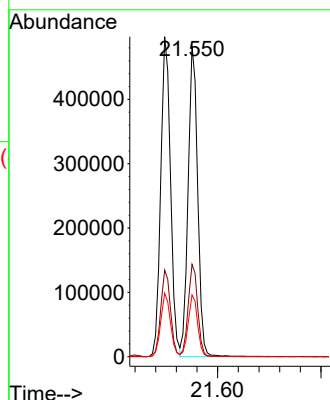
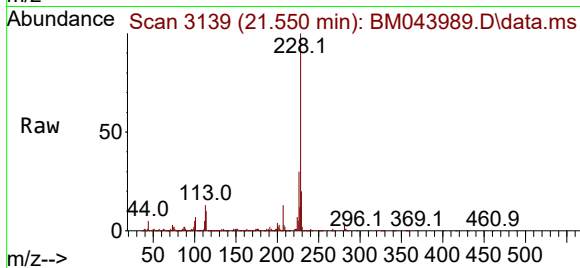
Tgt Ion:228 Resp: 618213

Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.4

229 19.9 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.200 ng

RT: 21.450 min Scan# 3122

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

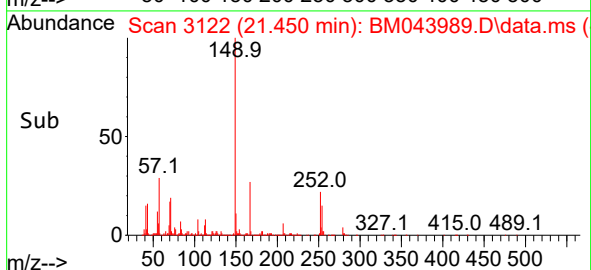
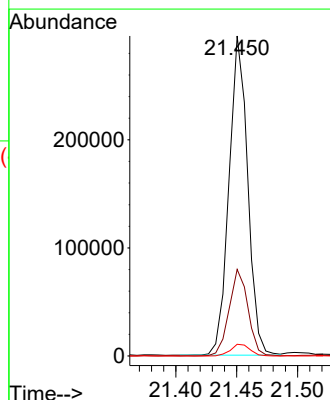
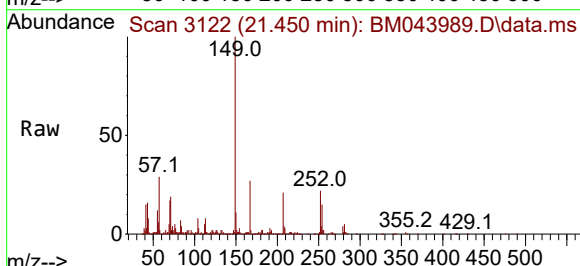
Tgt Ion:149 Resp: 315011

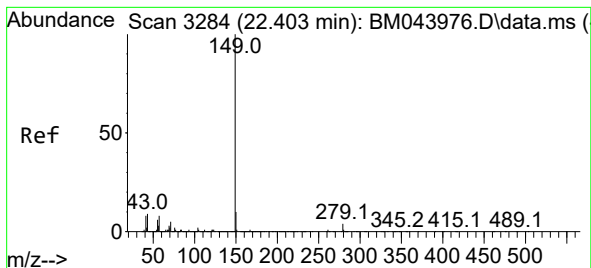
Ion Ratio Lower Upper

149 100

167 27.1 22.0 33.0

279 3.6 3.1 4.7





#85

Di-n-octyl phthalate

Concen: 3.987 ng

RT: 22.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

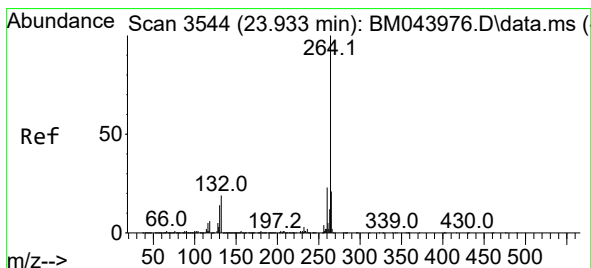
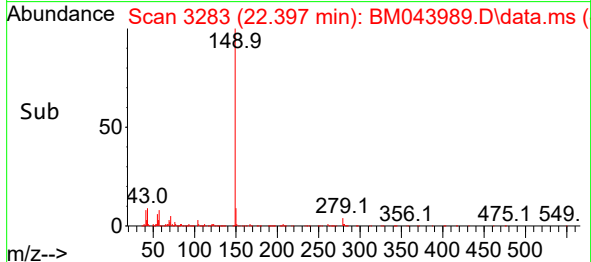
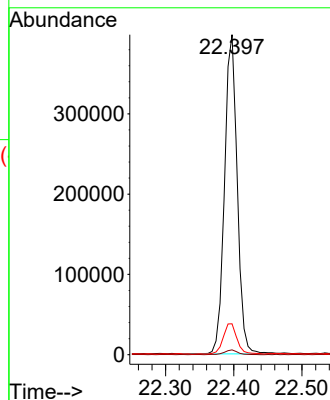
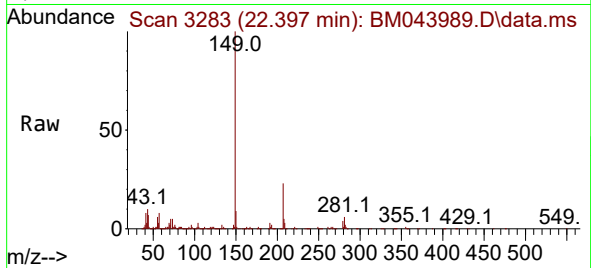
Tgt Ion:149 Resp: 515050

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

43 10.4 7.9 11.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3543

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

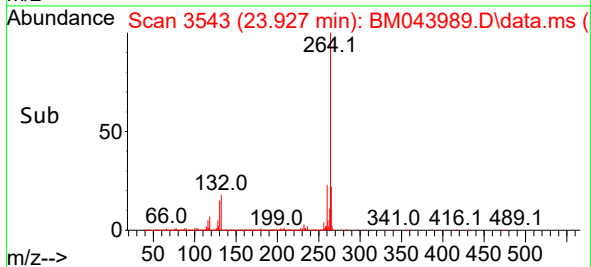
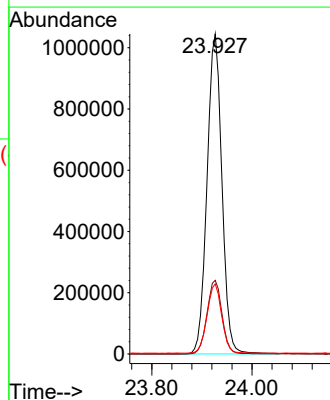
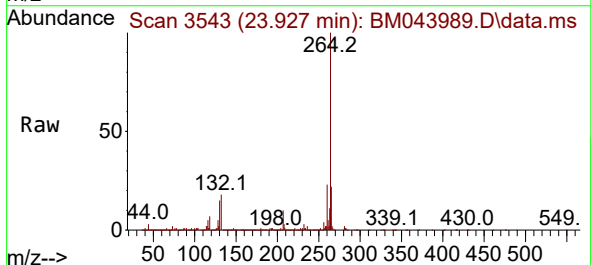
Tgt Ion:264 Resp: 2153213

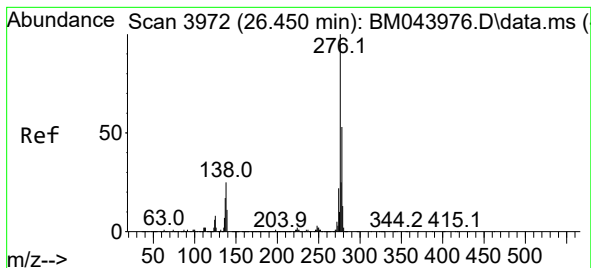
Ion Ratio Lower Upper

264 100

260 23.0 18.6 28.0

265 21.9 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.580 ng

RT: 26.421 min Scan# 3972

Delta R.T. -0.029 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

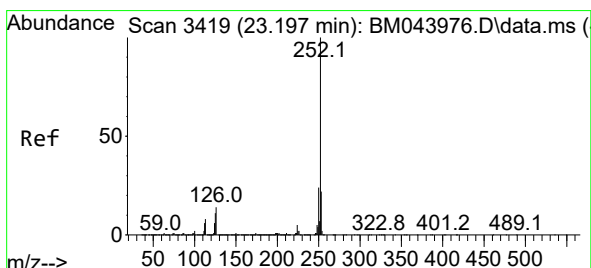
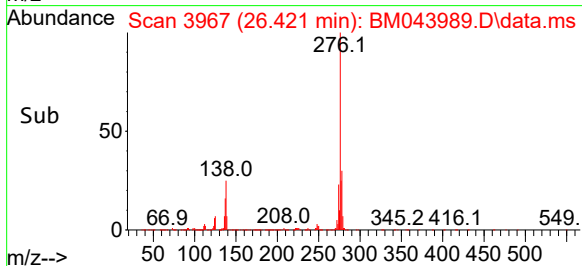
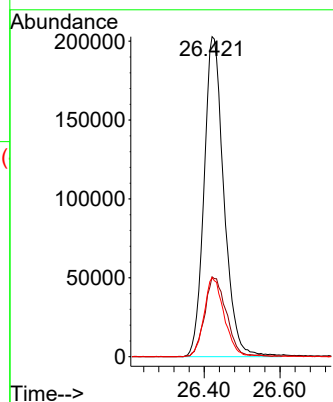
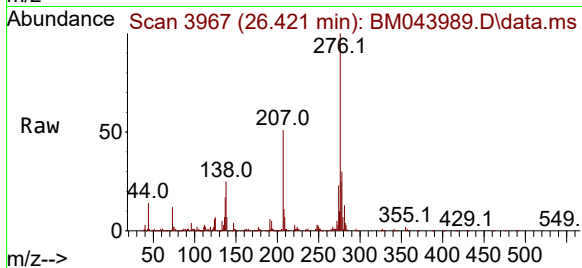
Tgt Ion:276 Resp: 737977

Ion Ratio Lower Upper

276 100

138 27.1 21.8 32.6

277 25.2 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 4.726 ng

RT: 23.191 min Scan# 3418

Delta R.T. -0.006 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

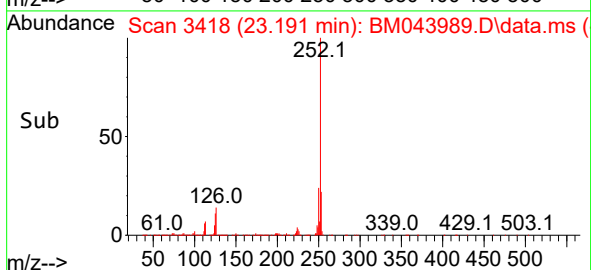
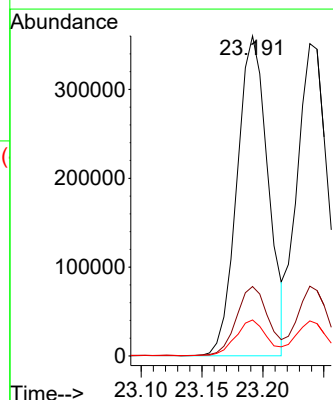
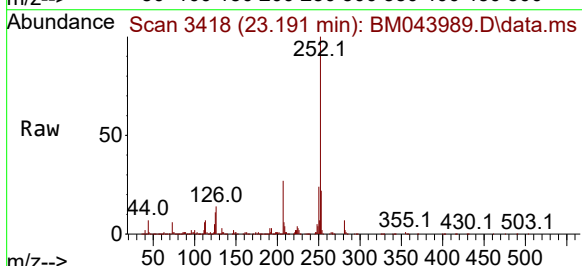
Tgt Ion:252 Resp: 640093

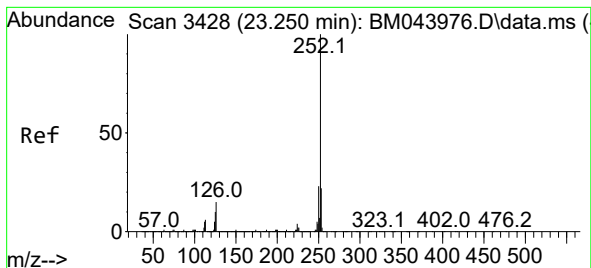
Ion Ratio Lower Upper

252 100

253 21.7 17.7 26.5

125 11.2 9.0 13.6





#89

Benzo(k)fluoranthene

Concen: 4.843 ng

RT: 23.238 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

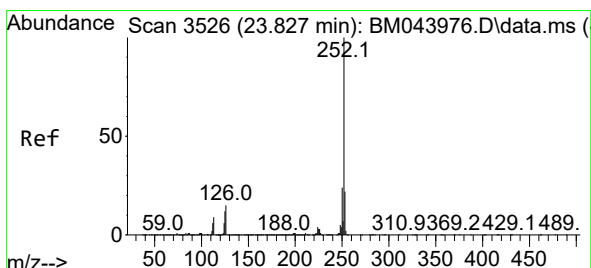
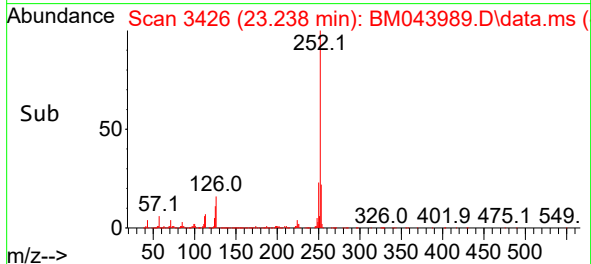
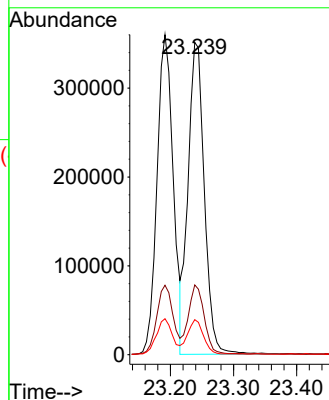
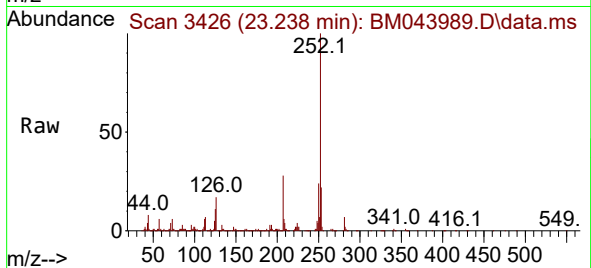
Tgt Ion:252 Resp: 629274

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

125 11.2 8.3 12.5



#90

Benzo(a)pyrene

Concen: 4.596 ng

RT: 23.815 min Scan# 3524

Delta R.T. -0.012 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

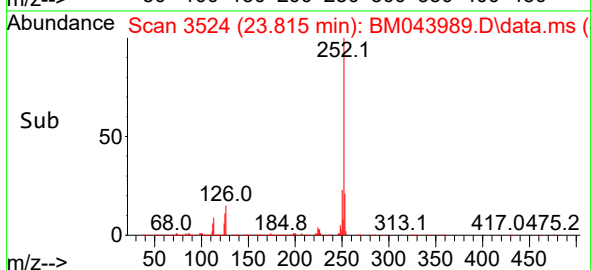
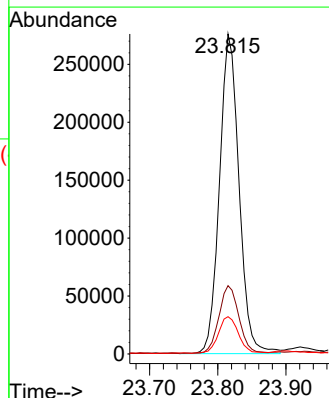
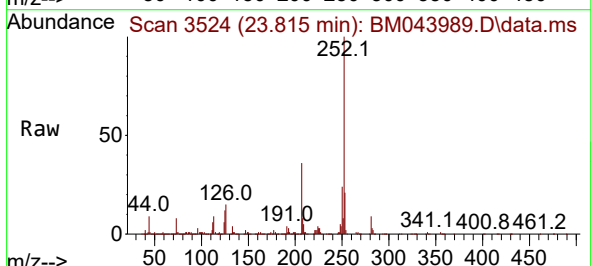
Tgt Ion:252 Resp: 550174

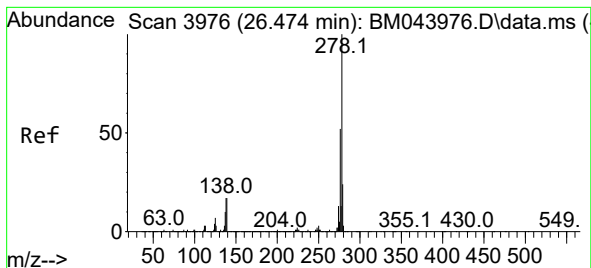
Ion Ratio Lower Upper

252 100

253 21.3 17.7 26.5

125 11.7 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 4.599 ng

RT: 26.450 min Scan# 3976

Delta R.T. -0.024 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2023

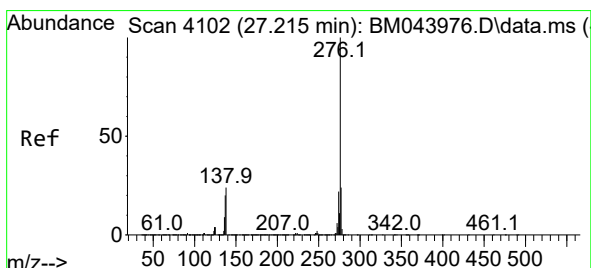
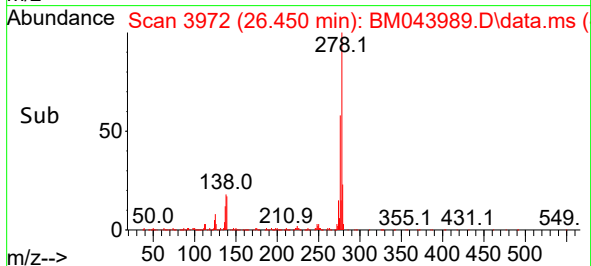
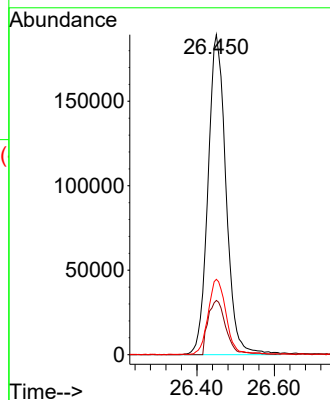
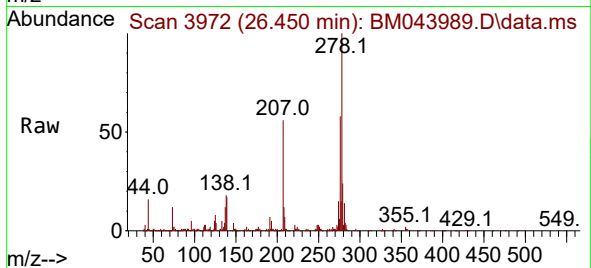
Tgt Ion:278 Resp: 611075

Ion Ratio Lower Upper

278 100

139 16.9 13.7 20.5

279 23.5 19.3 28.9



#92

Benzo(g,h,i)perylene

Concen: 4.422 ng

RT: 27.185 min Scan# 4097

Delta R.T. -0.029 min

Lab File: BM043989.D

Acq: 06 Feb 2024 13:26

Tgt Ion:276 Resp: 599300

Ion Ratio Lower Upper

276 100

277 24.9 19.0 28.4

138 22.0 18.8 28.2

