

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM012523\
 Data File : BM038528.D
 Acq On : 25 Jan 2023 12:13
 Operator : CG/JU
 Sample : N4955-03
 Misc : MDL-MDL-SOIL 4ppm
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT4-2022

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/26/2023
 Supervised By : Jagrut Upadhyay 01/26/2023

Quant Time: Jan 25 23:13:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM012023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 21 01:21:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	53329	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	168031	20.000	ng	0.00
39) Acenaphthene-d10	14.598	164	109627	20.000	ng	0.00
64) Phenanthrene-d10	17.339	188	259940	20.000	ng	0.00
76) Chrysene-d12	21.515	240	304095	20.000	ng	# 0.00
86) Perylene-d12	23.927	264	400394	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	362701	112.432	ng	0.00
7) Phenol-d6	7.128	99	449594	109.233	ng	0.00
23) Nitrobenzene-d5	9.139	82	297449	76.871	ng	0.00
42) 2,4,6-Tribromophenol	16.086	330	211746	134.130	ng	0.00
45) 2-Fluorobiphenyl	13.227	172	667391	74.991	ng	0.00
79) Terphenyl-d14	19.956	244	1196056	76.678	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.375	88	5369	3.548	ng	# 93
3) Pyridine	3.822	79	8202m	2.064	ng	
4) n-Nitrosodimethylamine	3.710	42	6349	3.366	ng	# 69
6) Aniline	7.298	93	16044	3.140	ng	93
8) 2-Chlorophenol	7.522	128	11417	3.464	ng	93
9) Benzaldehyde	7.110	77	12022m	4.924	ng	
10) Phenol	7.151	94	14966	3.639	ng	88
11) bis(2-Chloroethyl)ether	7.392	93	10826	3.336	ng	96
12) 1,3-Dichlorobenzene	7.851	146	12801	3.417	ng	94
13) 1,4-Dichlorobenzene	7.998	146	13111	3.463	ng	95
14) 1,2-Dichlorobenzene	8.316	146	12784	3.487	ng	92
15) Benzyl Alcohol	8.216	79	9630	3.129	ng	90
16) 2,2'-oxybis(1-Chloropr...	8.486	45	11860	3.480	ng	97
17) 2-Methylphenol	8.416	107	8117	2.788	ng	95
18) Hexachloroethane	9.045	117	4885	3.471	ng	93
19) n-Nitroso-di-n-propyla...	8.775	70	8420	2.836	ng	95
20) 3+4-Methylphenols	8.745	107	10610	2.720	ng	90
22) Acetophenone	8.798	105	16729	3.614	ng	# 97
24) Nitrobenzene	9.181	77	15995	4.085	ng	98
25) Isophorone	9.704	82	21310	3.337	ng	98
26) 2-Nitrophenol	9.898	139	4423	2.846	ng	93
27) 2,4-Dimethylphenol	9.951	122	7646	2.956	ng	84
28) bis(2-Chloroethoxy)met...	10.186	93	12359	3.308	ng	97
29) 2,4-Dichlorophenol	10.433	162	9243	3.046	ng	98
30) 1,2,4-Trichlorobenzene	10.639	180	12547	3.616	ng	# 94
31) Naphthalene	10.827	128	30071	3.294	ng	100
32) Benzoic acid	10.033	122	2945m	6.874	ng	
33) 4-Chloroaniline	10.951	127	11091	2.911	ng	96
34) Hexachlorobutadiene	11.098	225	8637	3.784	ng	90
35) Caprolactam	11.727	113	1797	2.443	ng	# 54
36) 4-Chloro-3-methylphenol	12.063	107	8438	3.058	ng	94
37) 2-Methylnaphthalene	12.433	142	19978	3.045	ng	# 94
38) 1-Methylnaphthalene	12.651	142	19473	3.147	ng	# 94
40) 1,2,4,5-Tetrachloroben...	12.798	216	14456	3.506	ng	98
41) Hexachlorocyclopentadiene	12.763	237	7349	3.242	ng	96
43) 2,4,6-Trichlorophenol	13.039	196	8047	3.048	ng	96

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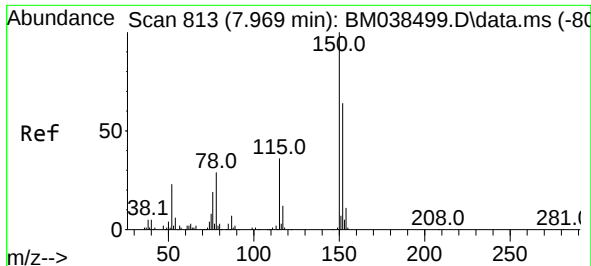
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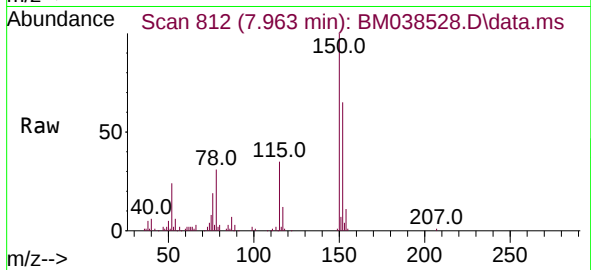
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.116	196	9060	2.930	ng	94
46) 1,1'-Biphenyl	13.439	154	29381	3.346	ng	99
47) 2-Chloronaphthalene	13.480	162	22827	3.331	ng	96
48) 2-Nitroaniline	13.692	65	5661	2.813	ng	# 84
49) Acenaphthylene	14.321	152	31395	2.928	ng	98
50) Dimethylphthalate	14.057	163	27175	3.220	ng	98
51) 2,6-Dinitrotoluene	14.186	165	4717	2.656	ng	85
52) Acenaphthene	14.663	154	20768	3.176	ng	95
53) 3-Nitroaniline	14.521	138	4553	2.580	ng	99
54) 2,4-Dinitrophenol	14.727	184	2283	6.411	ng	91
55) Dibenzofuran	14.998	168	35431	3.241	ng	96
56) 4-Nitrophenol	14.833	139	3231m	2.223	ng	
57) 2,4-Dinitrotoluene	14.974	165	6254	2.598	ng	# 91
58) Fluorene	15.645	166	27169	3.064	ng	95
59) 2,3,4,6-Tetrachlorophenol	15.221	232	7601	3.008	ng	# 95
60) Diethylphthalate	15.410	149	25936	3.138	ng	98
61) 4-Chlorophenyl-phenyle...	15.639	204	15021	3.227	ng	98
62) 4-Nitroaniline	15.680	138	3930	5.201	ng	95
63) Azobenzene	15.927	77	26555	3.033	ng	97
65) 4,6-Dinitro-2-methylph...	15.733	198	3937	2.333	ng	98
66) n-Nitrosodiphenylamine	15.851	169	23565	3.020	ng	99
67) 4-Bromophenyl-phenylether	16.527	248	8988	3.117	ng	91
68) Hexachlorobenzene	16.645	284	11339	3.644	ng	92
69) Atrazine	16.798	200	8132	3.124	ng	96
70) Pentachlorophenol	16.992	266	5404	2.439	ng	94
71) Phenanthrene	17.380	178	47043	3.241	ng	97
72) Anthracene	17.474	178	44524	3.014	ng	100
73) Carbazole	17.751	167	37311	2.868	ng	98
74) Di-n-butylphthalate	18.298	149	40379	2.825	ng	98
75) Fluoranthene	19.392	202	53309	3.056	ng	98
77) Benzidine	19.586	184	21321	3.077	ng	96
78) Pyrene	19.756	202	57699	2.725	ng	99
80) Butylbenzylphthalate	20.644	149	18651	2.547	ng	98
81) Benzo(a)anthracene	21.497	228	70176	3.257	ng	99
82) 3,3'-Dichlorobenzidine	21.433	252	23558	3.404	ng	# 99
83) Chrysene	21.550	228	68842	3.267	ng	97
84) Bis(2-ethylhexyl)phtha...	21.409	149	26878	2.533	ng	# 93
85) Di-n-octyl phthalate	22.338	149	48824	2.588	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.432	276	94245	3.181	ng	97
88) Benzo(b)fluoranthene	23.185	252	76701m	3.176	ng	
89) Benzo(k)fluoranthene	23.238	252	76752	3.071	ng	99
90) Benzo(a)pyrene	23.815	252	69028	2.883	ng	98
91) Dibenzo(a,h)anthracene	26.444	278	82670	3.352	ng	93
92) Benzo(g,h,i)perylene	27.209	276	87398	3.460	ng	98

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.963 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

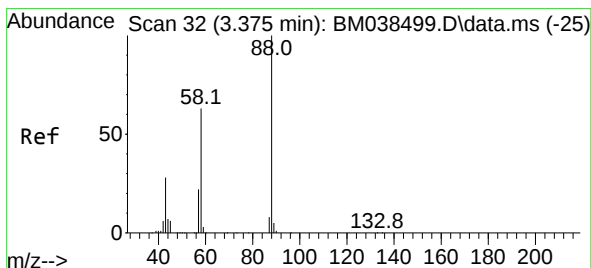
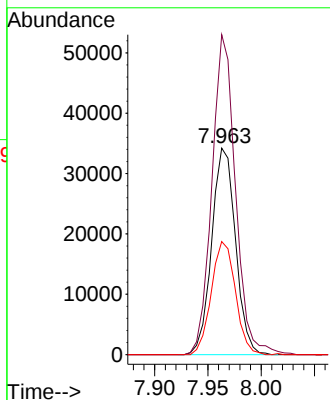
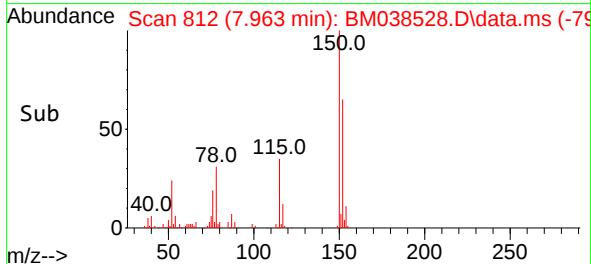
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:152 Resp: 53329
Ion Ratio Lower Upper
152 100
150 155.0 124.2 186.4
115 54.8 44.8 67.2

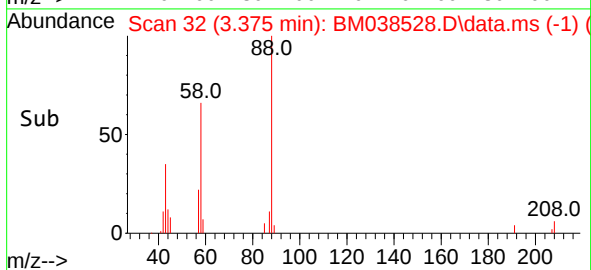
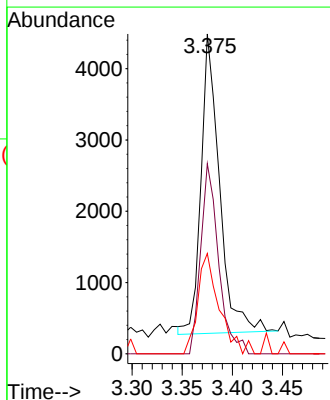
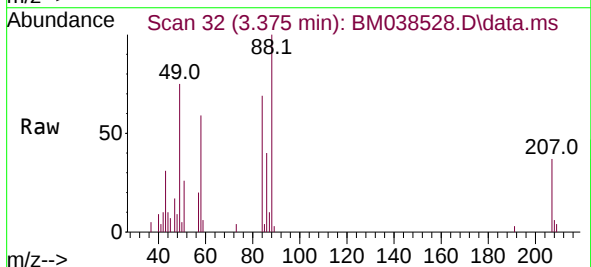
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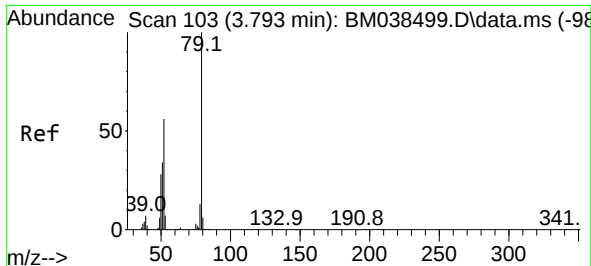
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#2
1,4-Dioxane
Concen: 3.548 ng
RT: 3.375 min Scan# 32
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

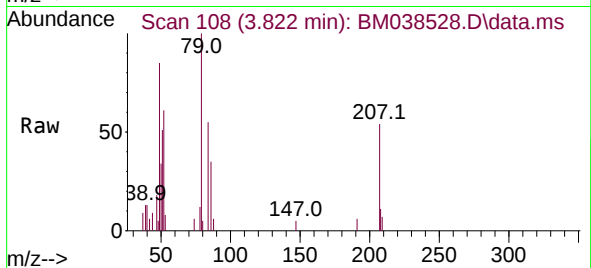
Tgt Ion: 88 Resp: 5369
Ion Ratio Lower Upper
88 100
58 61.3 50.5 75.7
43 38.9 23.9 35.9#





#3
Pyridine
Concen: 2.064 ng m
RT: 3.822 min Scan# 10
Delta R.T. 0.029 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

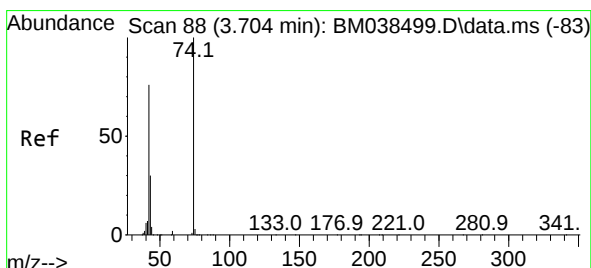
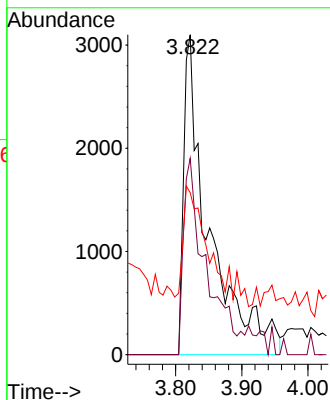
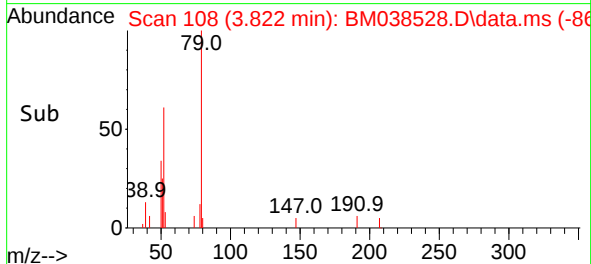
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion: 79 Resp: 820
Ion Ratio Lower Upper
79 100
52 61.3 45.0 67.4
51 50.6 27.1 40.7

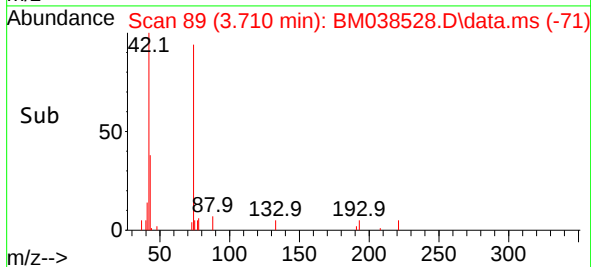
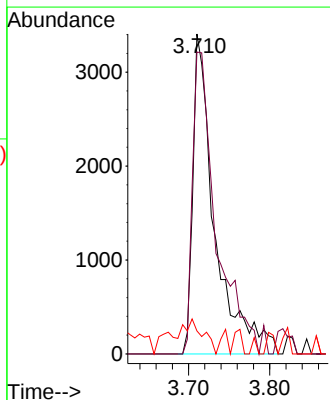
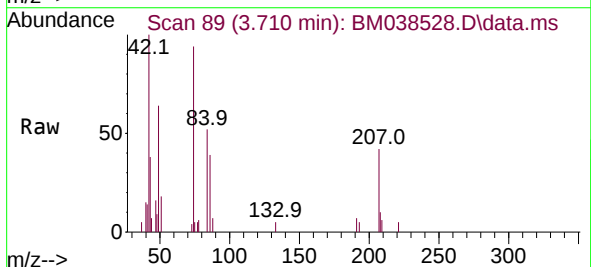
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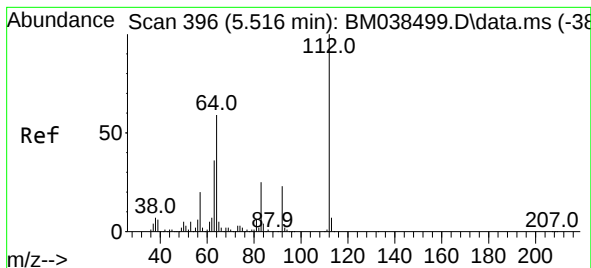
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#4
n-Nitrosodimethylamine
Concen: 3.366 ng
RT: 3.710 min Scan# 89
Delta R.T. 0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion: 42 Resp: 6349
Ion Ratio Lower Upper
42 100
74 94.3 105.0 157.4#
44 7.2 4.1 6.1#





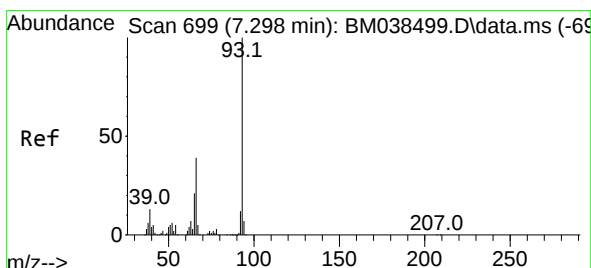
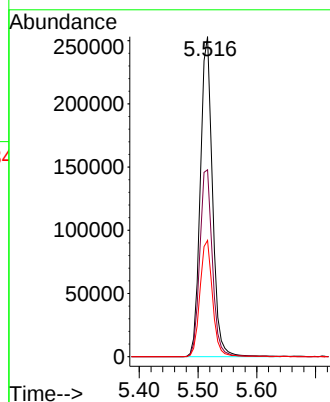
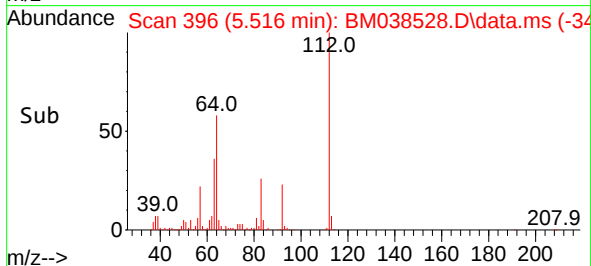
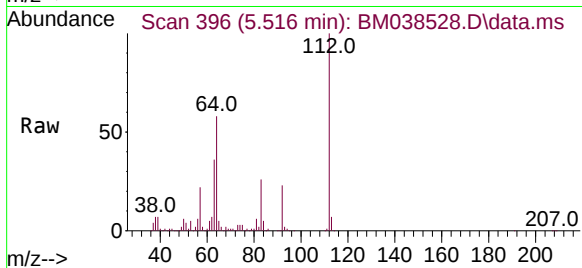
#5
2-Fluorophenol
Concen: 112.432 ng
RT: 5.516 min Scan# 396
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion: 112 Resp: 362701
Ion Ratio Lower Upper
112 100
64 58.4 47.3 70.9
63 36.3 28.8 43.2

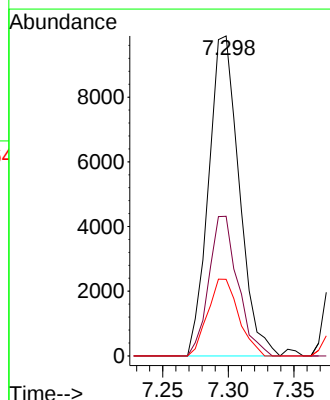
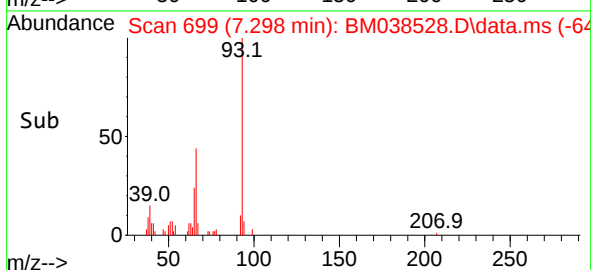
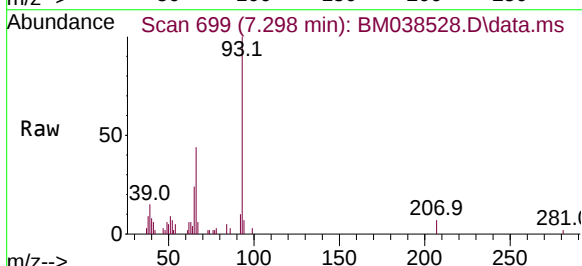
Manual Integrations
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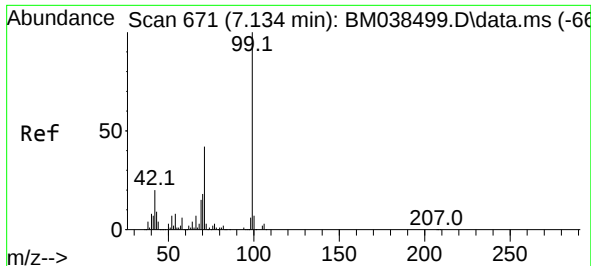
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#6
Aniline
Concen: 3.140 ng
RT: 7.298 min Scan# 699
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion: 93 Resp: 16044
Ion Ratio Lower Upper
93 100
66 43.6 31.6 47.4
65 23.9 16.6 24.8





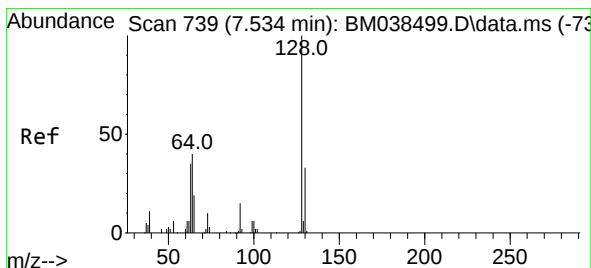
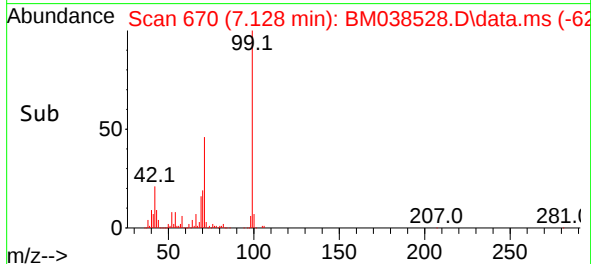
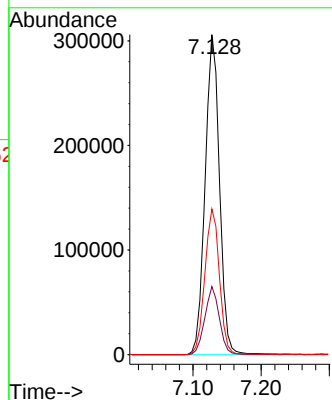
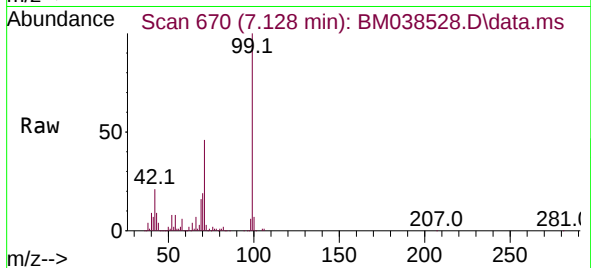
#7
Phenol-d6
Concen: 109.233 ng
RT: 7.128 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion: 99 Resp: 449594
Ion Ratio Lower Upper
99 100
42 21.3 16.0 24.0
71 45.5 33.8 50.6

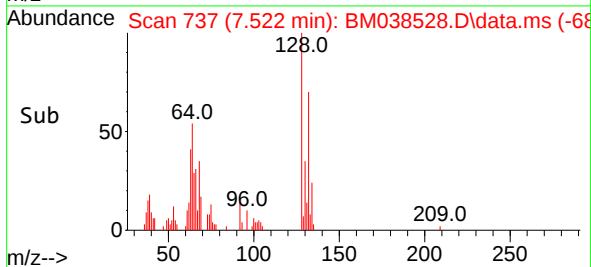
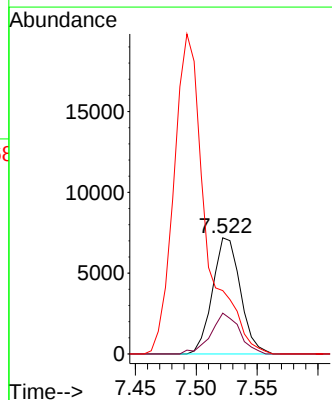
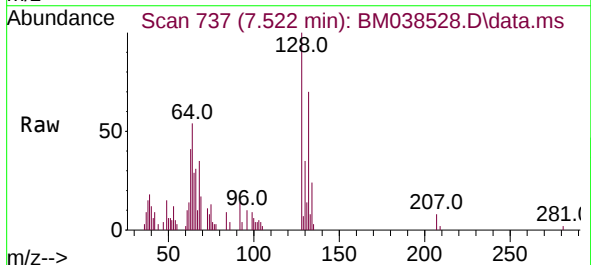
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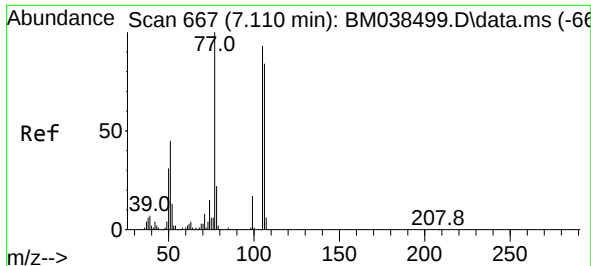
Reviewed By :Christian Giraldo 01/26/2023
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#8
2-Chlorophenol
Concen: 3.464 ng
RT: 7.522 min Scan# 737
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

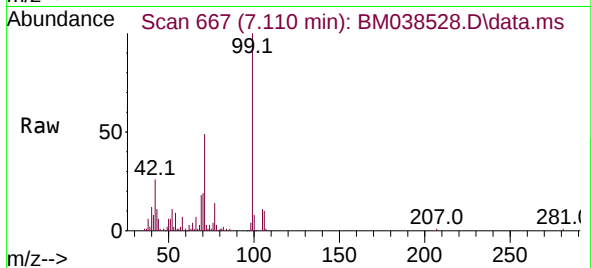
Tgt Ion:128 Resp: 11417
Ion Ratio Lower Upper
128 100
130 35.1 13.2 53.2
64 54.4 27.7 67.7





#9
Benzaldehyde
Concen: 4.924 ng m
RT: 7.110 min Scan# 667
Delta R.T. 0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

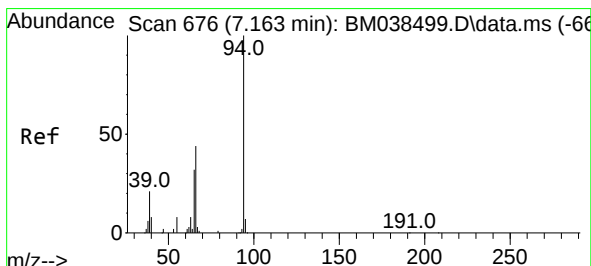
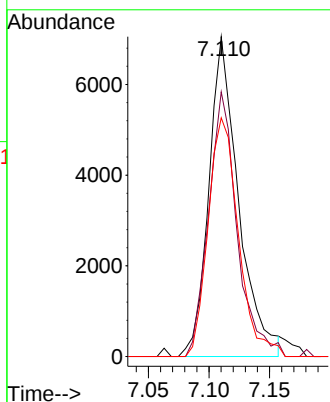
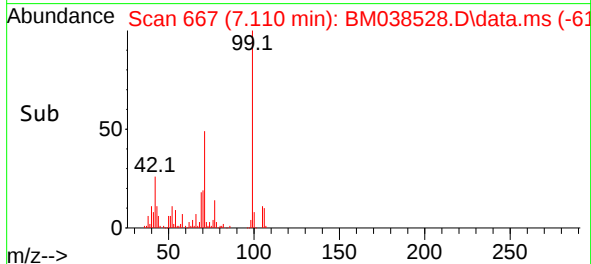
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion: 77 Resp: 12022
Ion Ratio Lower Upper
77 100
105 82.7 72.9 112.9
106 74.6 63.8 103.8

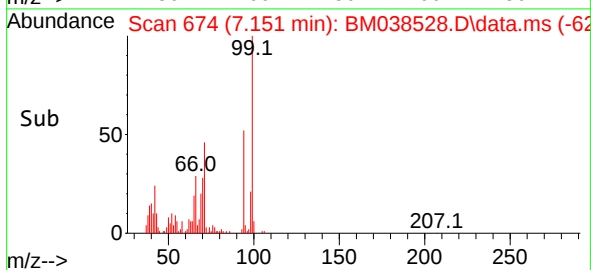
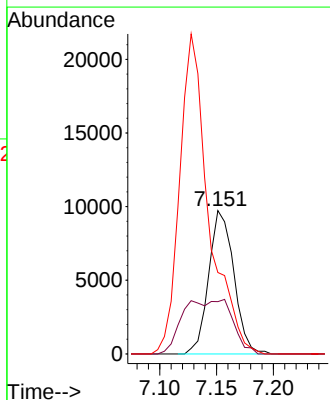
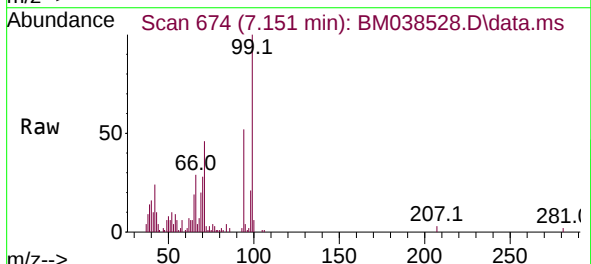
Manual Integrations
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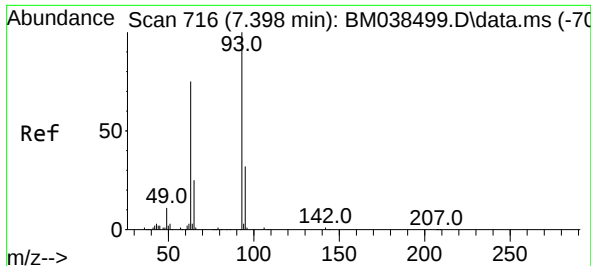
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#10
Phenol
Concen: 3.639 ng
RT: 7.151 min Scan# 674
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion: 94 Resp: 14966
Ion Ratio Lower Upper
94 100
65 36.5 12.7 52.7
66 56.8 26.0 66.0





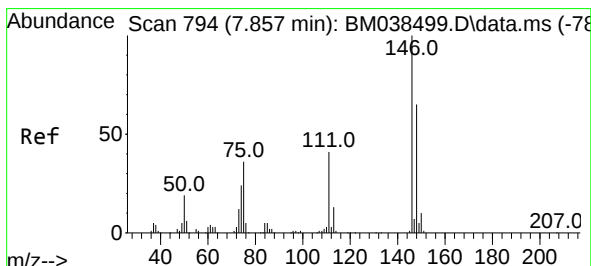
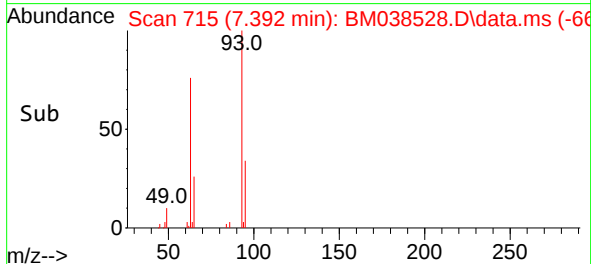
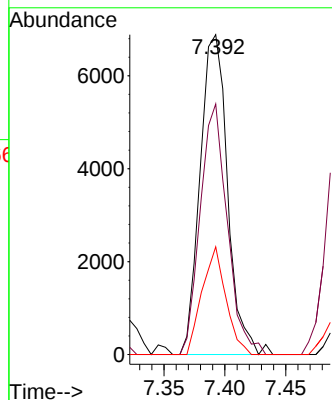
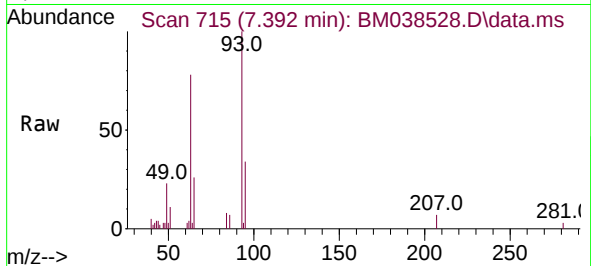
#11
bis(2-Chloroethyl)ether
Concen: 3.336 ng
RT: 7.392 min Scan# 716
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion: 93 Resp: 10826
Ion Ratio Lower Upper
93 100
63 78.3 54.4 94.4
95 33.7 11.4 51.4

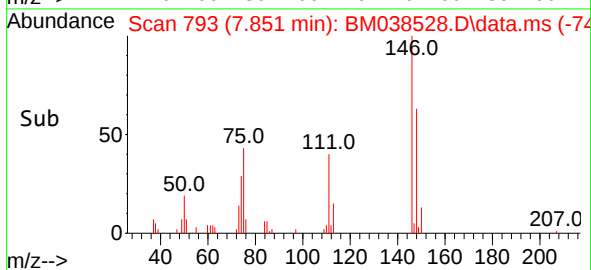
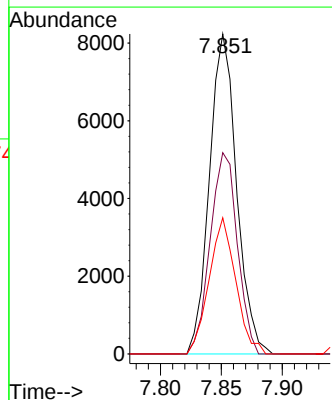
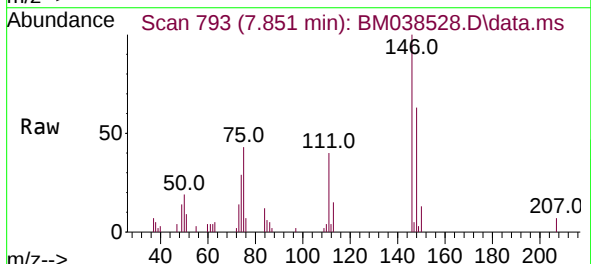
Manual Integrations
APPROVED

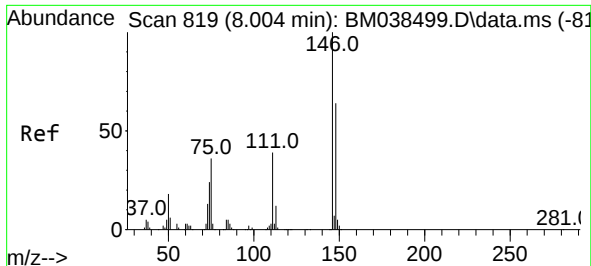
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#12
1,3-Dichlorobenzene
Concen: 3.417 ng
RT: 7.851 min Scan# 793
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion:146 Resp: 12801
Ion Ratio Lower Upper
146 100
148 62.9 52.1 78.1
75 42.5 28.7 43.1





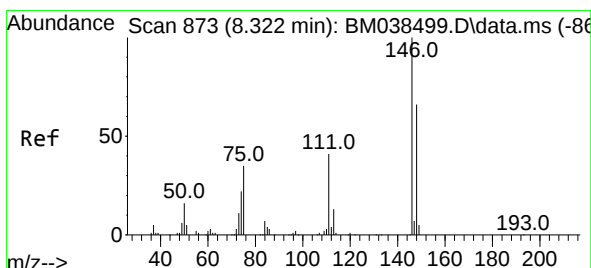
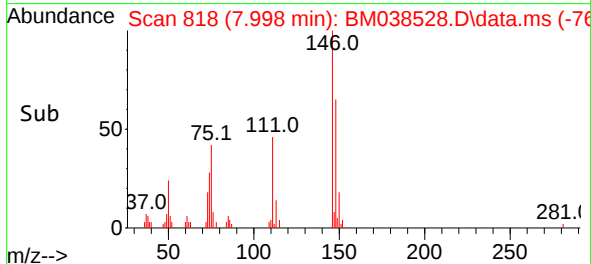
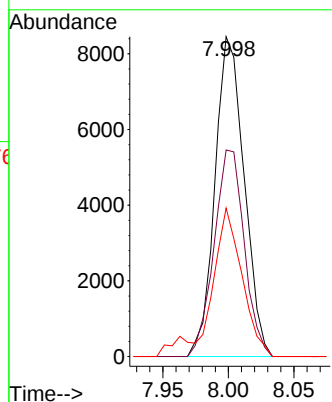
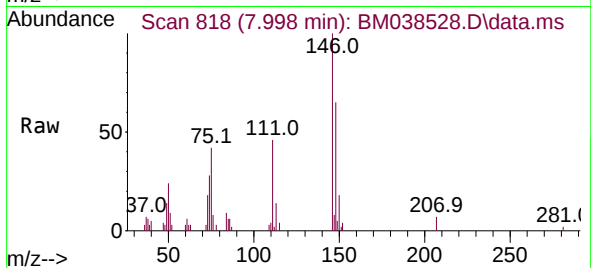
#13
1,4-Dichlorobenzene
Concen: 3.463 ng
RT: 7.998 min Scan# 819
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion:146 Resp: 1311
Ion Ratio Lower Upper
146 100
148 64.6 51.3 76.9
111 46.4 31.4 47.0

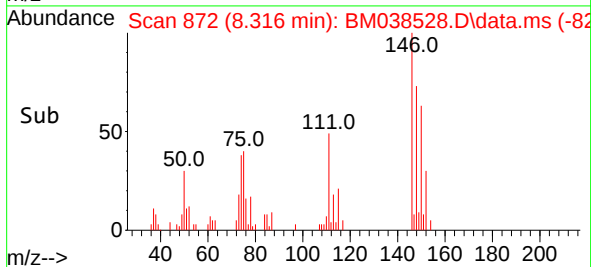
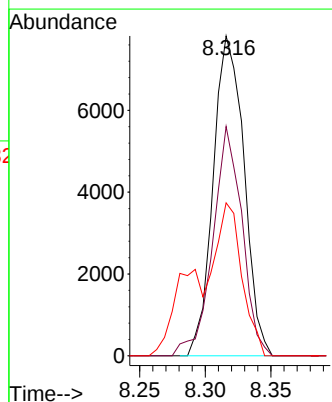
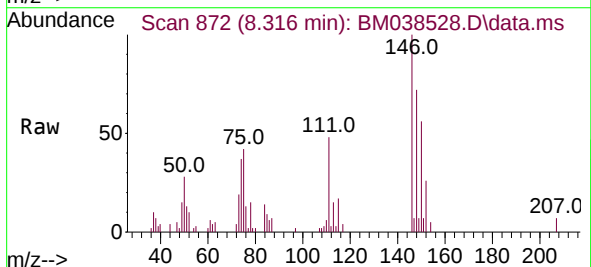
Manual Integrations
APPROVED

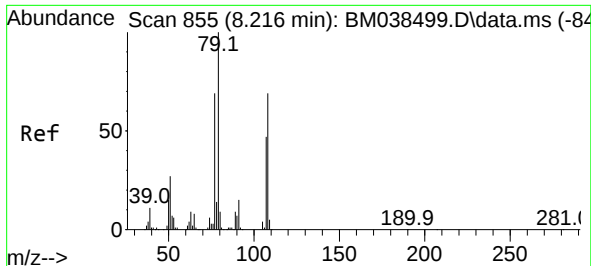
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#14
1,2-Dichlorobenzene
Concen: 3.487 ng
RT: 8.316 min Scan# 872
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

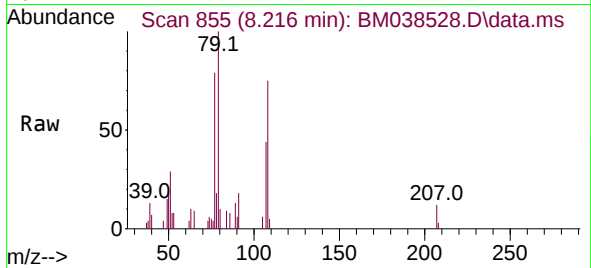
Tgt Ion:146 Resp: 12784
Ion Ratio Lower Upper
146 100
148 71.7 52.7 79.1
111 47.8 33.2 49.8





#15
Benzyl Alcohol
Concen: 3.129 ng
RT: 8.216 min Scan# 855
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

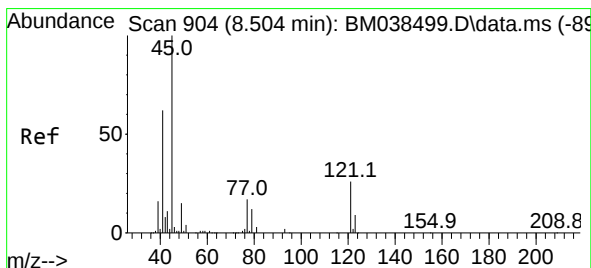
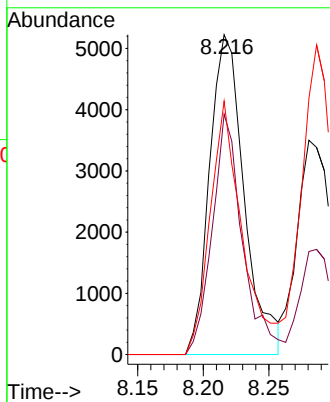
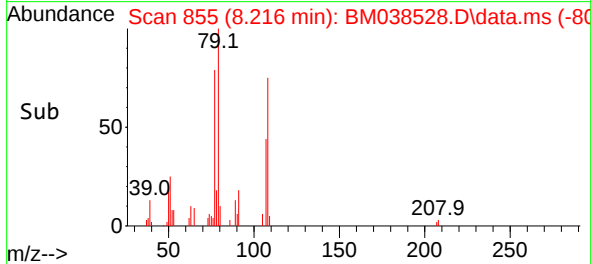
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



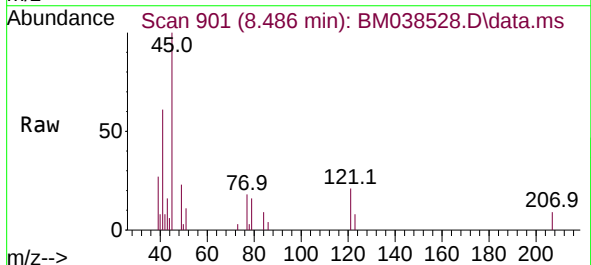
Tgt Ion: 79 Resp: 9630
Ion Ratio Lower Upper
79 100
108 75.1 55.0 82.6
77 79.2 55.0 82.4

Manual Integrations
APPROVED

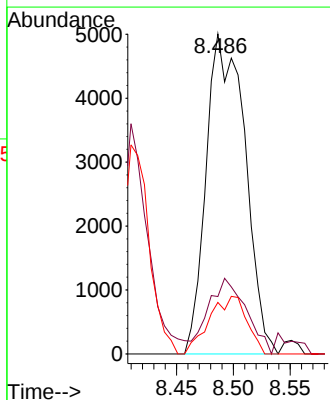
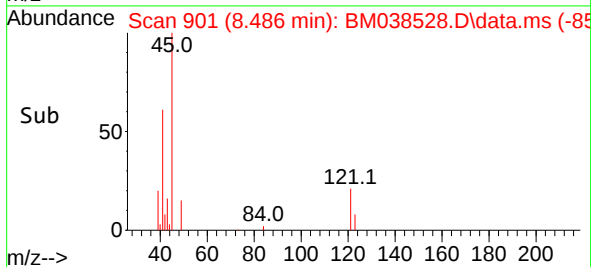
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

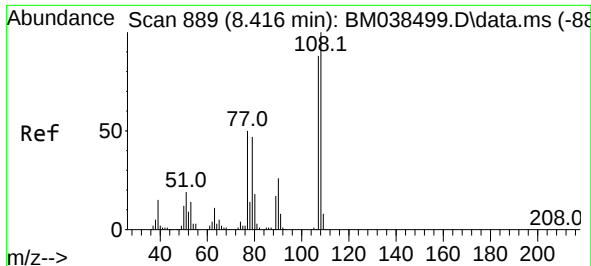


#16
2,2'-oxybis(1-Chloropropane)
Concen: 3.480 ng
RT: 8.486 min Scan# 901
Delta R.T. -0.018 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



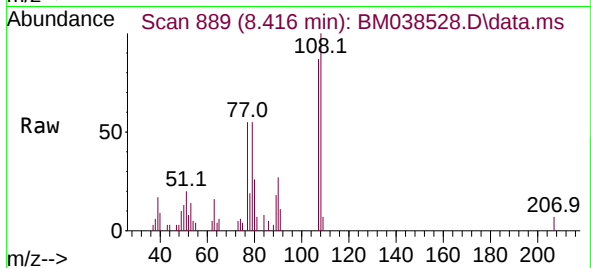
Tgt Ion: 45 Resp: 11860
Ion Ratio Lower Upper
45 100
77 17.9 0.0 39.2
79 16.1 0.0 34.9





#17
2-Methylphenol
Concen: 2.788 ng
RT: 8.416 min Scan# 889
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

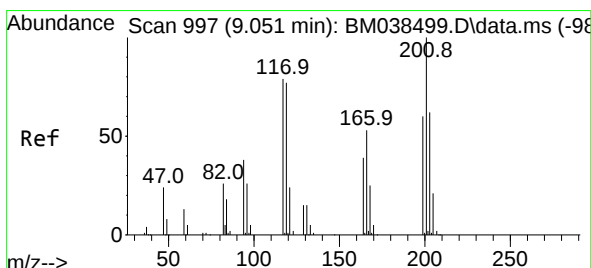
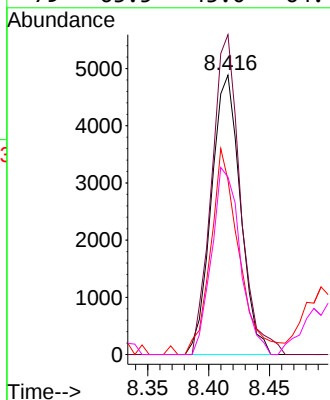
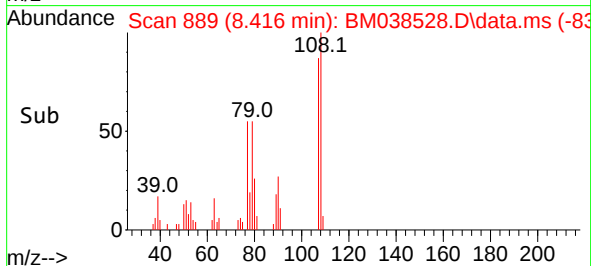
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion	Ratio	Lower	Upper
107	100		
108	114.5	90.8	136.2
77	62.4	46.1	69.1
79	63.5	43.0	64.4

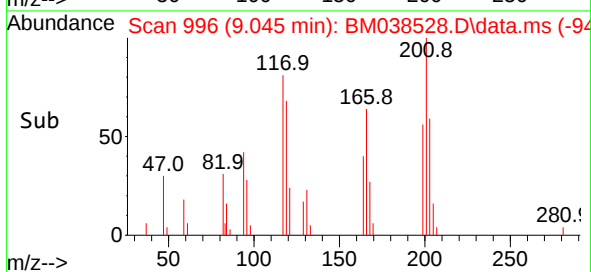
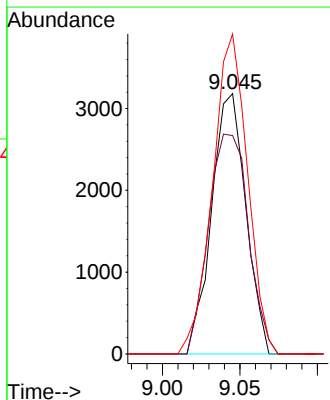
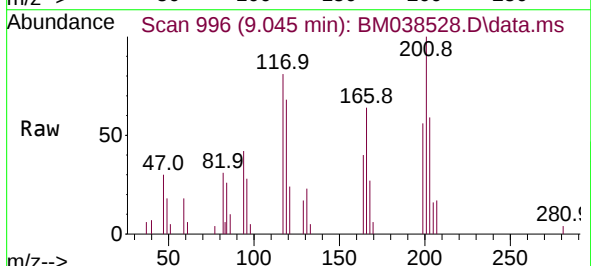
Manual Integrations
APPROVED

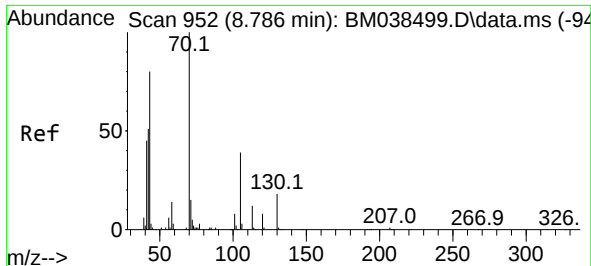
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#18
Hexachloroethane
Concen: 3.471 ng
RT: 9.045 min Scan# 996
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

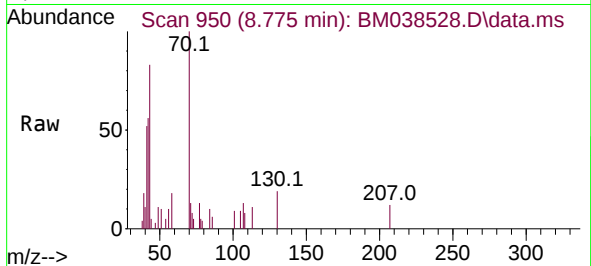
Tgt Ion	Ratio	Lower	Upper
117	100		
119	83.9	77.9	116.9
201	122.9	100.6	151.0





#19
n-Nitroso-di-n-propylamine
Concen: 2.836 ng
RT: 8.775 min Scan# 91
Delta R.T. -0.011 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

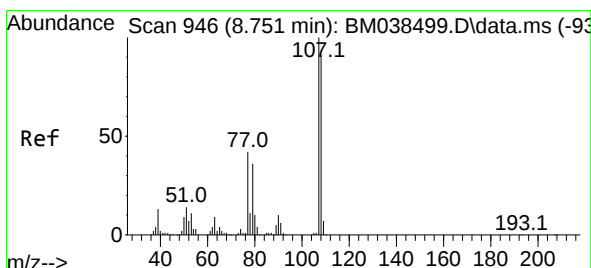
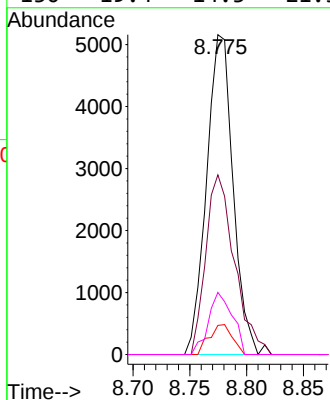
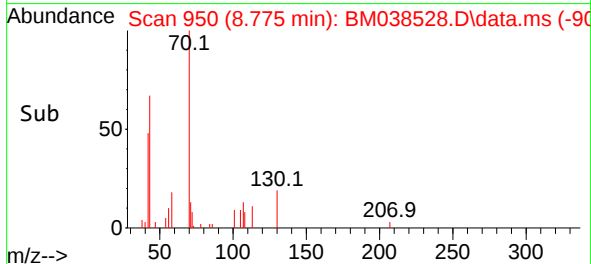
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion: 70 Resp: 8420
Ion Ratio Lower Upper
70 100
42 56.2 41.4 62.2
101 9.1 6.5 9.7
130 19.4 14.3 21.5

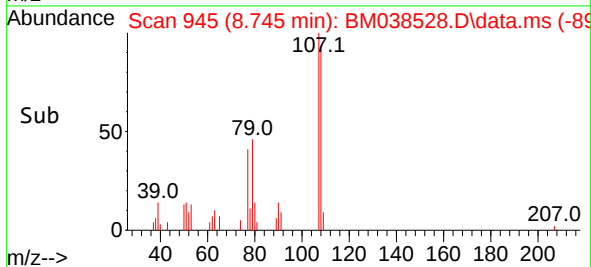
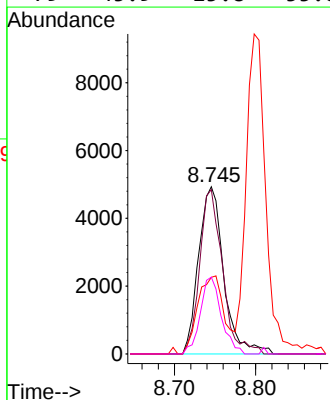
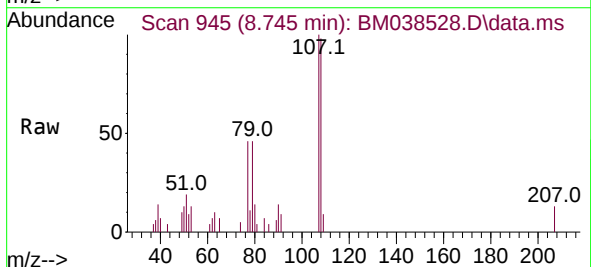
Manual Integrations
APPROVED

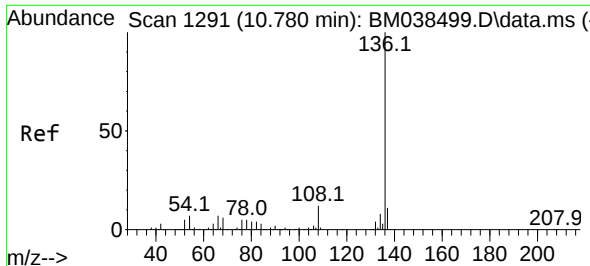
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#20
3+4-Methylphenols
Concen: 2.720 ng
RT: 8.745 min Scan# 945
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

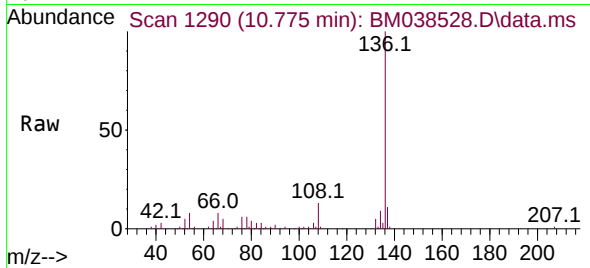
Tgt Ion:107 Resp: 10610
Ion Ratio Lower Upper
107 100
108 98.3 70.7 110.7
77 45.8 22.0 62.0
79 45.9 15.8 55.8





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.775 min Scan# 1291
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

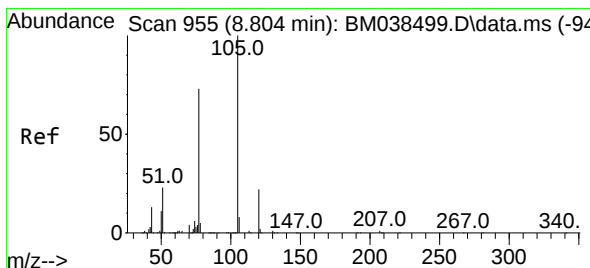
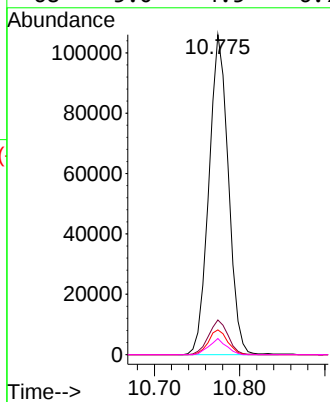
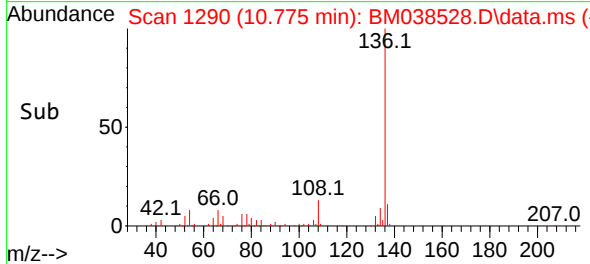
Instrument : BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:136 Resp: 168031
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.7 6.0 9.0
68 5.0 4.5 6.7

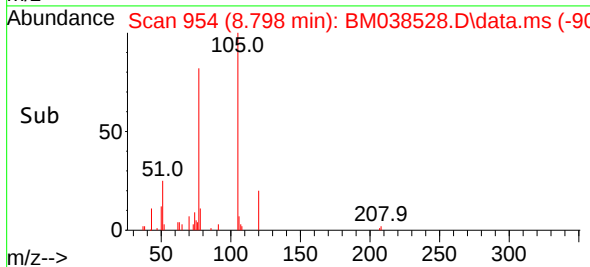
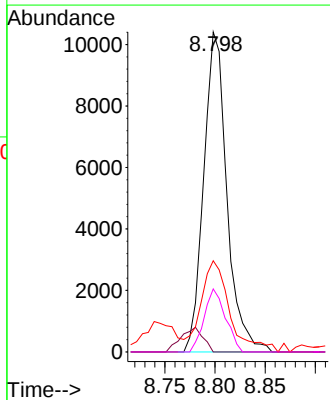
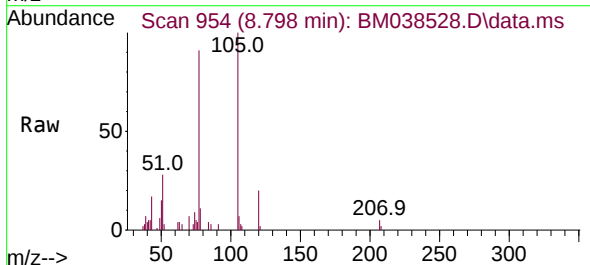
Manual Integrations
APPROVED

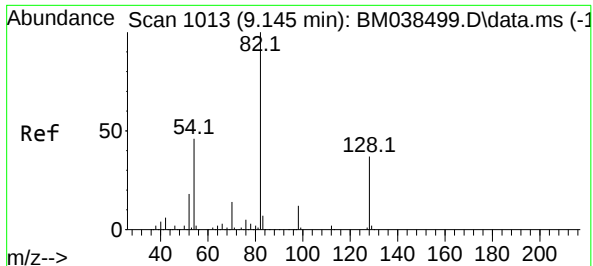
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#22
Acetophenone
Concen: 3.614 ng
RT: 8.798 min Scan# 954
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion:105 Resp: 16729
Ion Ratio Lower Upper
105 100
71 0.0 0.9 1.3#
51 28.5 21.8 32.8
120 19.7 17.3 25.9





#23

Nitrobenzene-d5

Concen: 76.871 ng

RT: 9.139 min Scan# 1012

Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

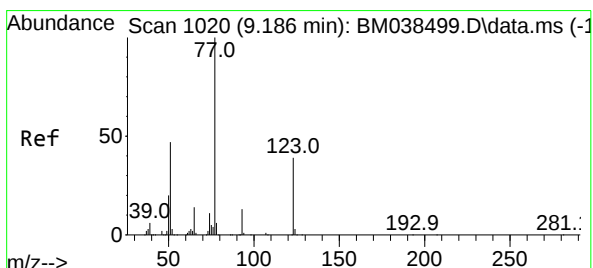
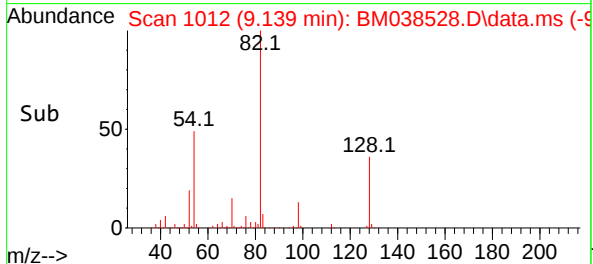
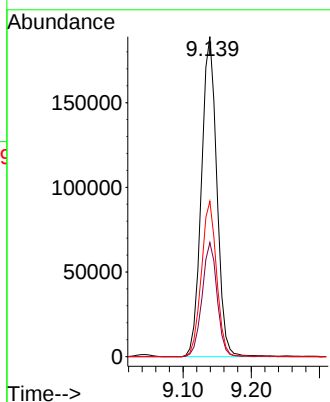
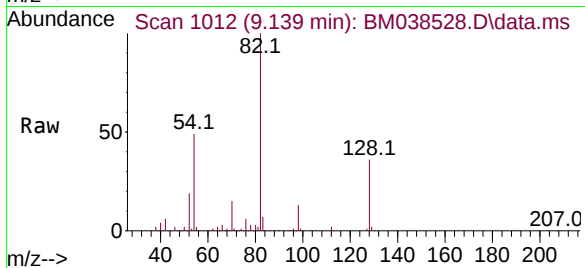
MDL-SOIL-03-QT4-2022

Tgt Ion: 82 Resp: 297449
 Ion Ratio Lower Upper
 82 100
 128 35.6 29.3 43.9
 54 48.5 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023
 Supervised By :Jagrut Upadhyay 01/26/2023



#24

Nitrobenzene

Concen: 4.085 ng

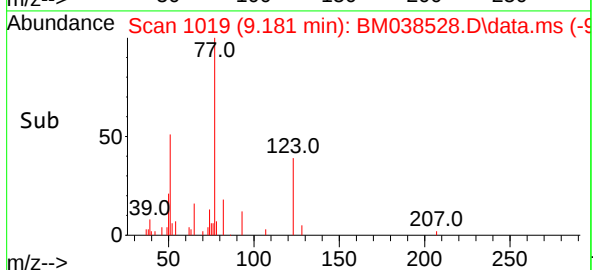
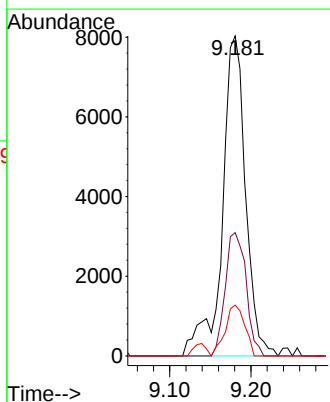
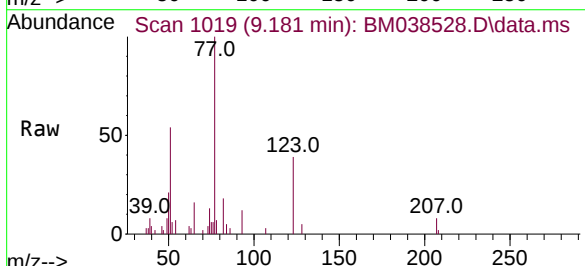
RT: 9.181 min Scan# 1019

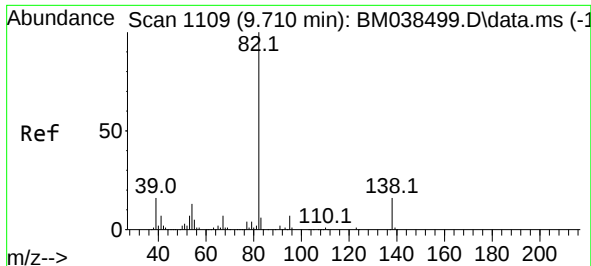
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

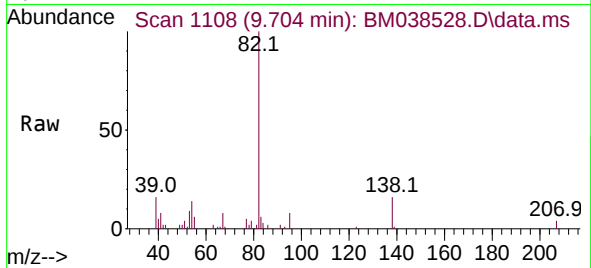
Tgt Ion: 77 Resp: 15995
 Ion Ratio Lower Upper
 77 100
 123 38.5 31.5 47.3
 65 15.9 11.2 16.8





#25
Isophorone
Concen: 3.337 ng
RT: 9.704 min Scan# 1108
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

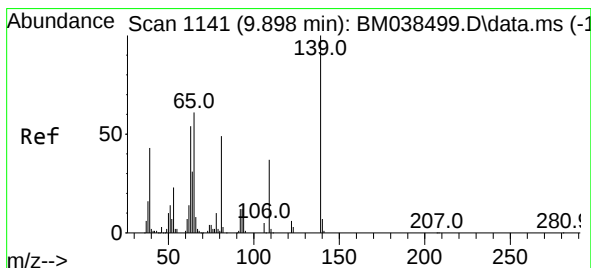
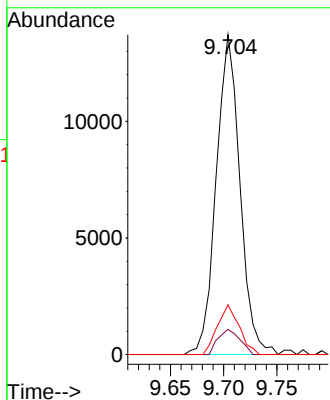
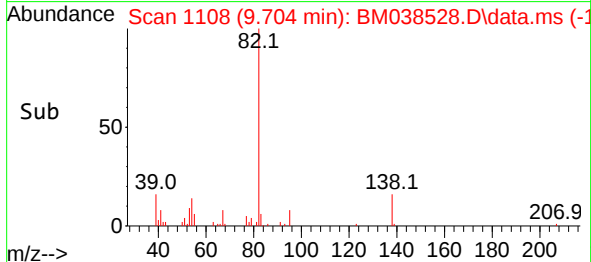
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



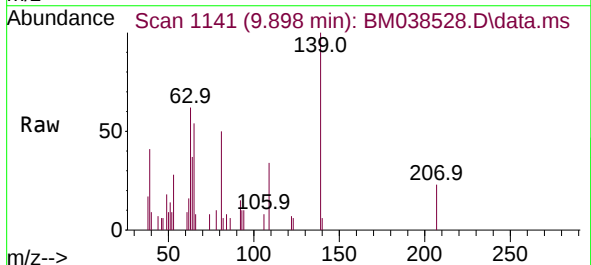
Tgt Ion: 82 Resp: 21310
Ion Ratio Lower Upper
82 100
95 7.9 5.6 8.4
138 15.5 13.2 19.8

Manual Integrations
APPROVED

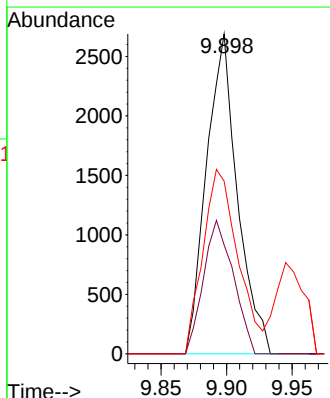
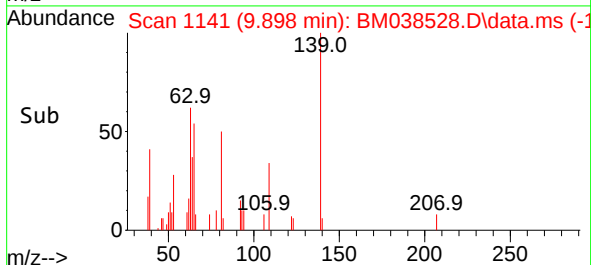
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

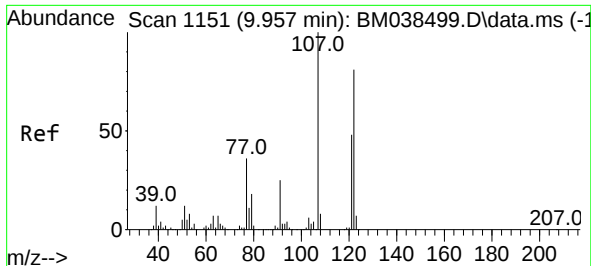


#26
2-Nitrophenol
Concen: 2.846 ng
RT: 9.898 min Scan# 1141
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion:139 Resp: 4423
Ion Ratio Lower Upper
139 100
109 34.0 29.3 43.9
65 54.0 48.6 72.8





#27

2,4-Dimethylphenol

Concen: 2.956 ng

RT: 9.951 min Scan# 1151

Delta R.T. -0.006 min

Lab File: BM038528.D

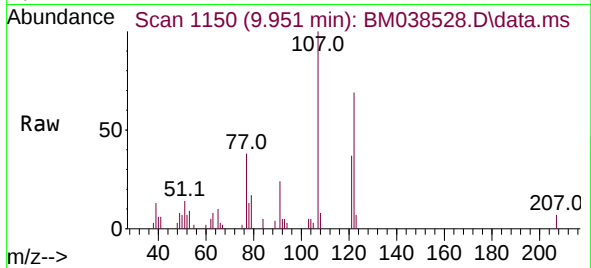
Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022



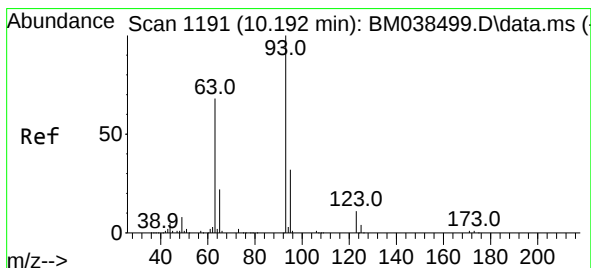
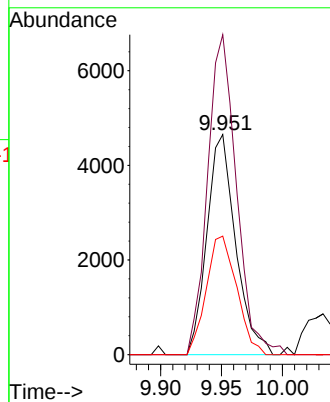
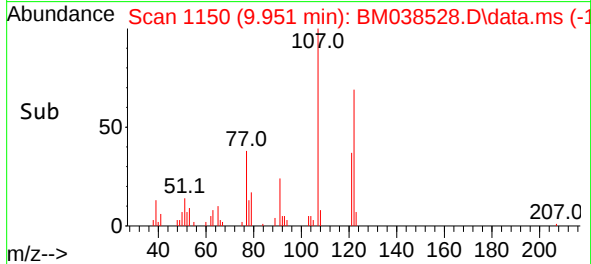
Tgt Ion:	122	Resp:	7646
Ion	Ratio	Lower	Upper
122	100		
107	145.4	98.2	147.2
121	53.8	47.1	70.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#28

bis(2-Chloroethoxy)methane

Concen: 3.308 ng

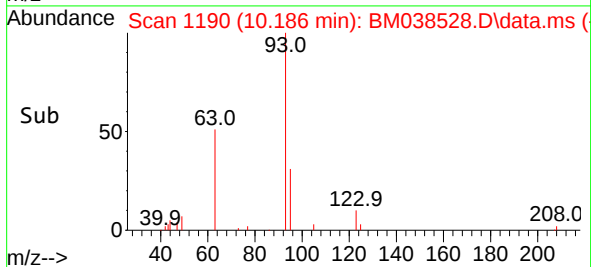
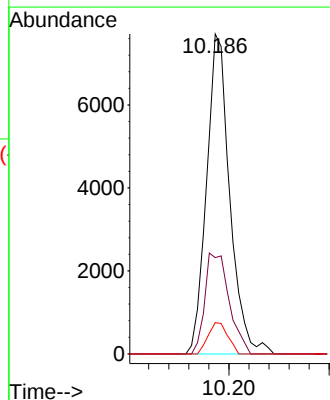
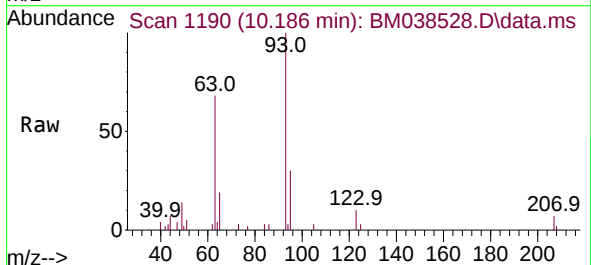
RT: 10.186 min Scan# 1190

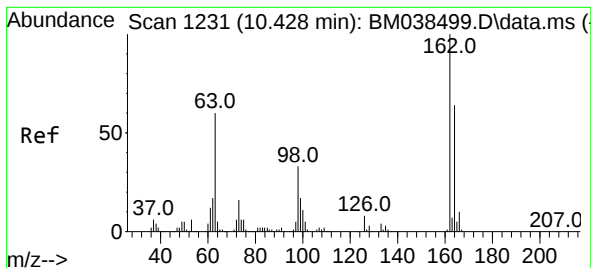
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Tgt Ion:	93	Resp:	12359
Ion	Ratio	Lower	Upper
93	100		
95	30.1	25.3	37.9
123	9.8	8.8	13.2





#29

2,4-Dichlorophenol

Concen: 3.046 ng

RT: 10.433 min Scan# 1231

Delta R.T. 0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

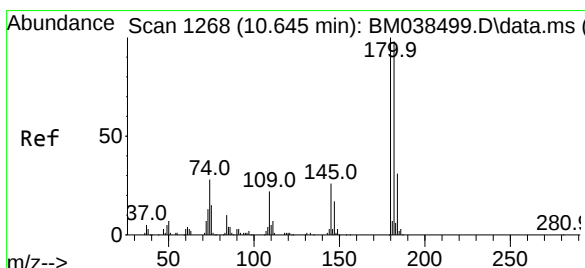
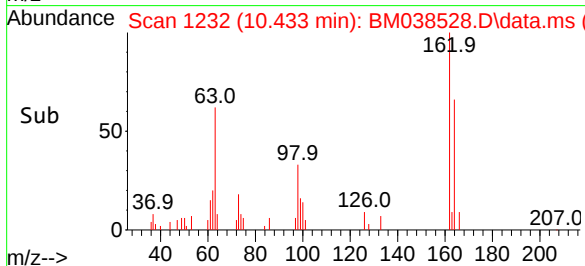
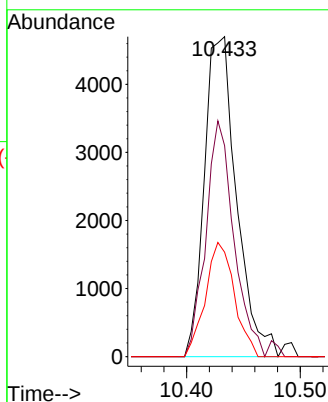
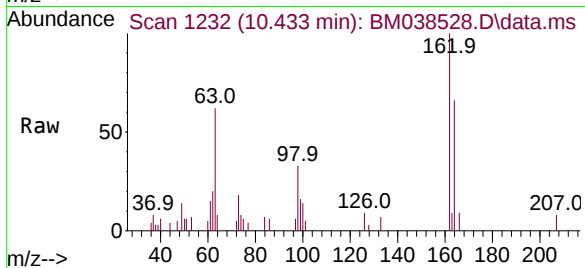
MDL-SOIL-03-QT4-2022

Tgt Ion:	162	Resp:	924
Ion Ratio	Lower	Upper	
162	100		
164	65.9	43.7	83.7
98	32.6	12.9	52.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#30

1,2,4-Trichlorobenzene

Concen: 3.616 ng

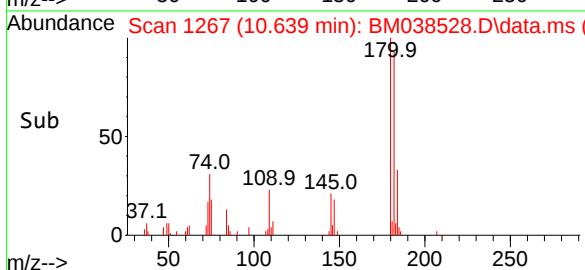
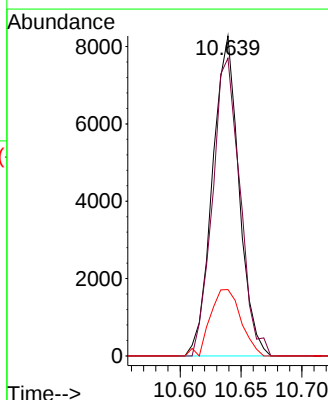
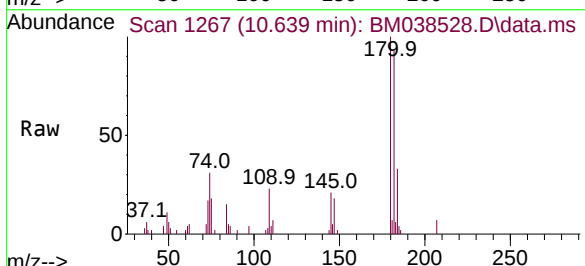
RT: 10.639 min Scan# 1267

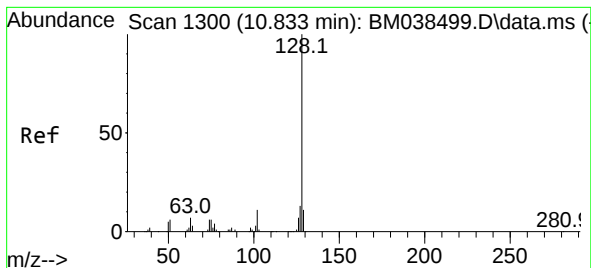
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Tgt Ion:	180	Resp:	12547
Ion Ratio	Lower	Upper	
180	100		
182	93.0	78.3	117.5
145	20.7	21.0	31.6





#31

Naphthalene

Concen: 3.294 ng

RT: 10.827 min Scan# 1164

Delta R.T. -0.006 min

Lab File: BM038528.D

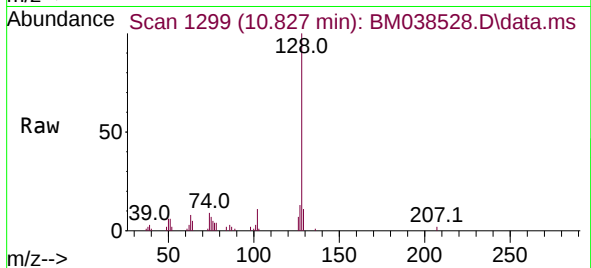
Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022



Tgt Ion:128 Resp: 3007

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

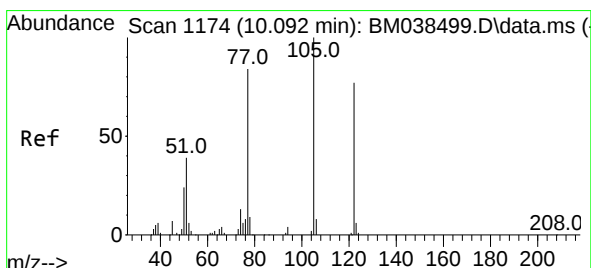
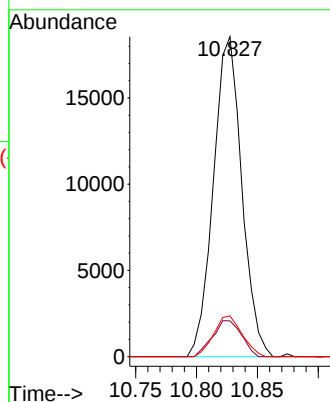
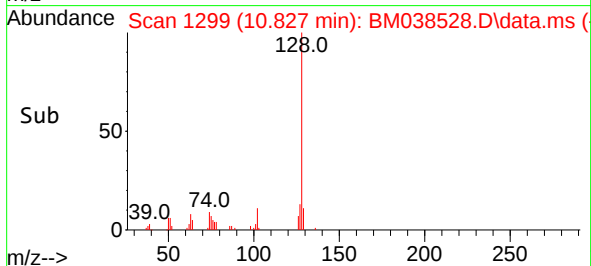
127 12.7 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#32

Benzoic acid

Concen: 6.874 ng m

RT: 10.033 min Scan# 1164

Delta R.T. -0.059 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

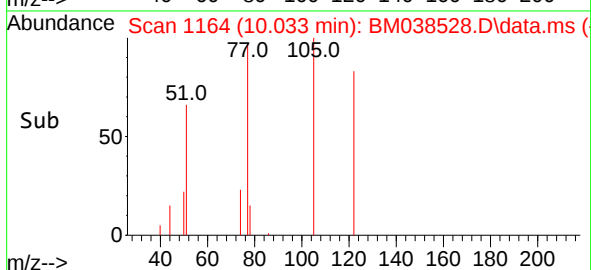
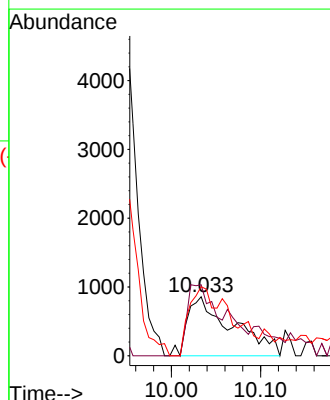
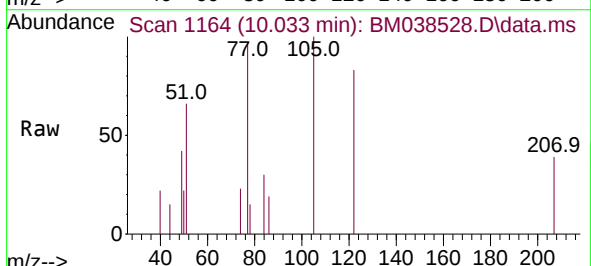
Tgt Ion:122 Resp: 2945

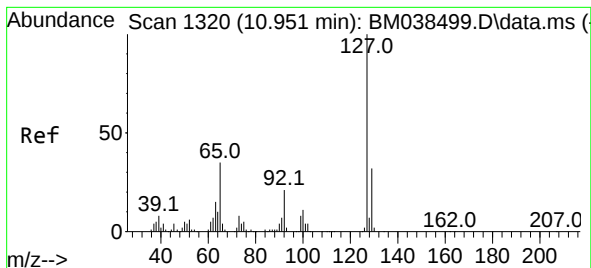
Ion Ratio Lower Upper

122 100

105 120.2 107.9 147.9

77 117.0 88.6 128.6





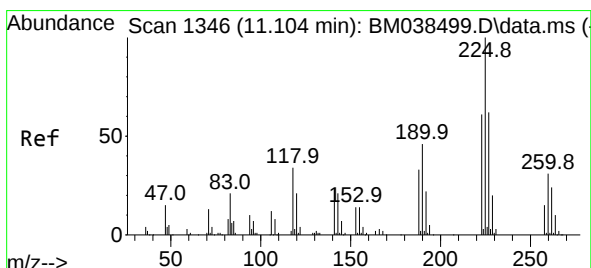
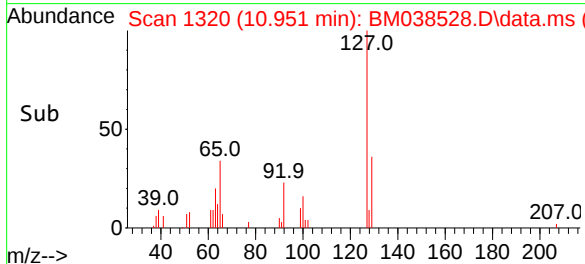
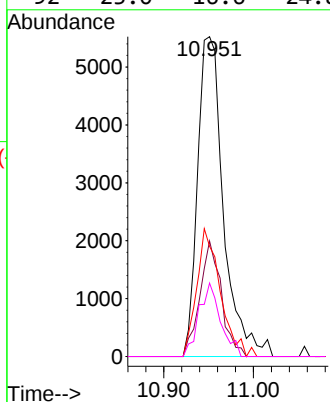
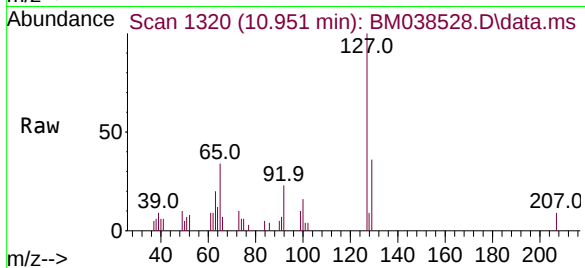
#33
4-Chloroaniline
Concen: 2.911 ng
RT: 10.951 min Scan# 1320
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion	Ratio	Lower	Upper
127	100		
129	36.1	25.8	38.6
65	34.5	28.2	42.2
92	23.0	16.6	24.8

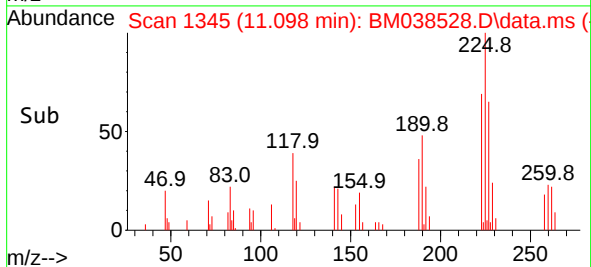
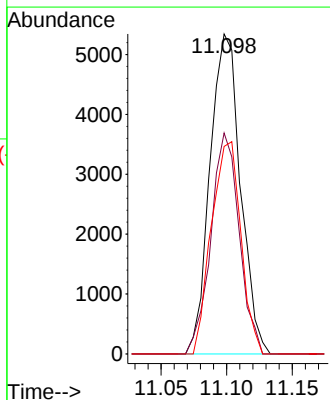
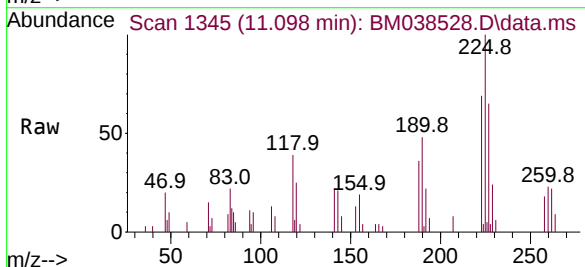
Manual Integrations
APPROVED

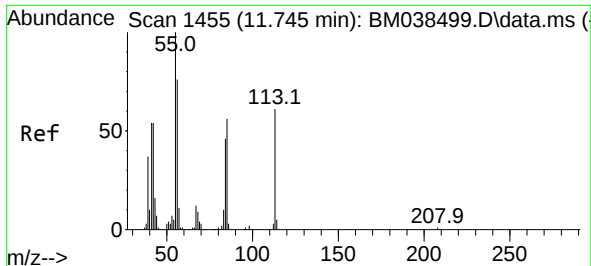
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#34
Hexachlorobutadiene
Concen: 3.784 ng
RT: 11.098 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

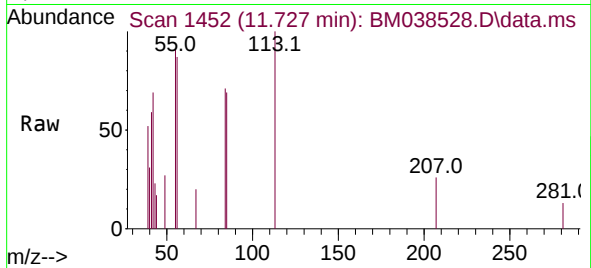
Tgt Ion	Ratio	Lower	Upper
225	100		
223	69.0	48.8	73.2
227	68.6	49.4	74.0





#35
Caprolactam
Concen: 2.443 ng
RT: 11.727 min Scan# 1452
Delta R.T. -0.018 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

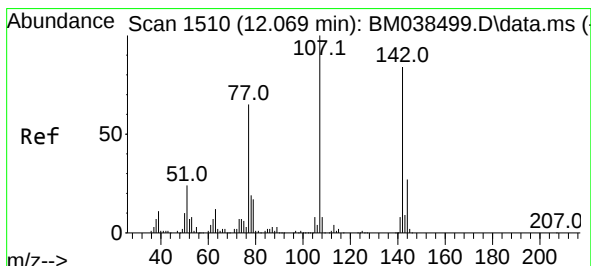
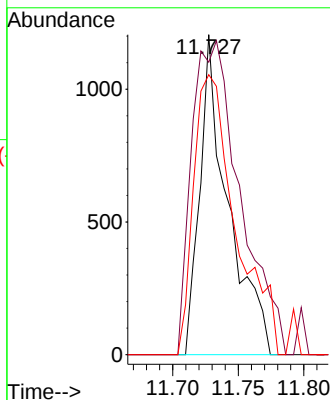
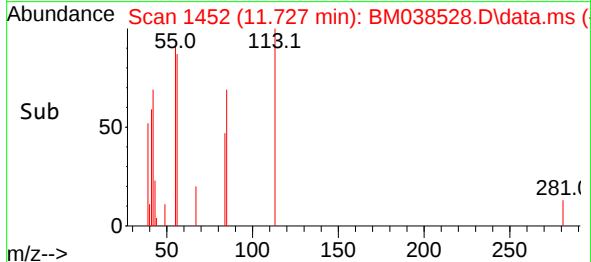
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



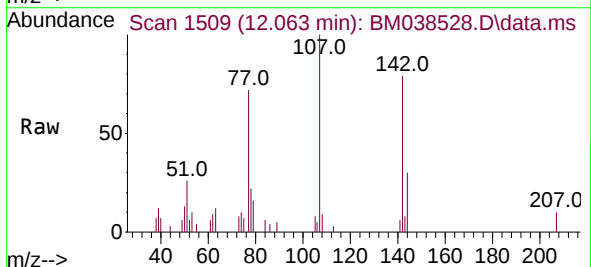
Tgt Ion:113 Resp: 1797
Ion Ratio Lower Upper
113 100
55 91.4 145.0 185.0
56 87.5 105.7 145.7

Manual Integrations
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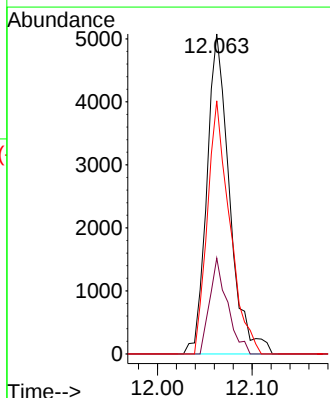
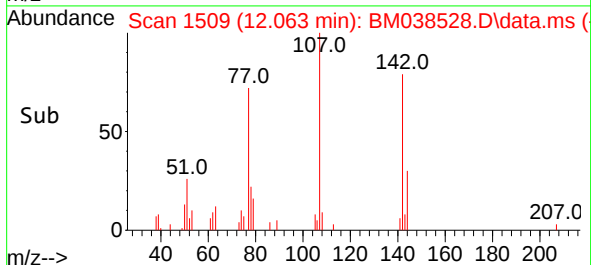
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

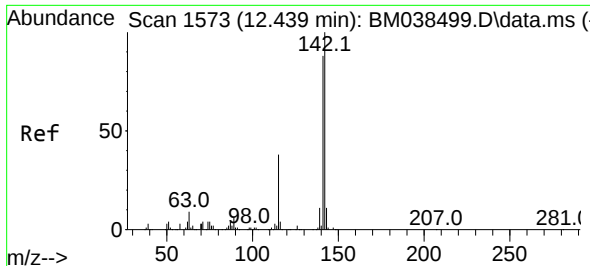


#36
4-Chloro-3-methylphenol
Concen: 3.058 ng
RT: 12.063 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



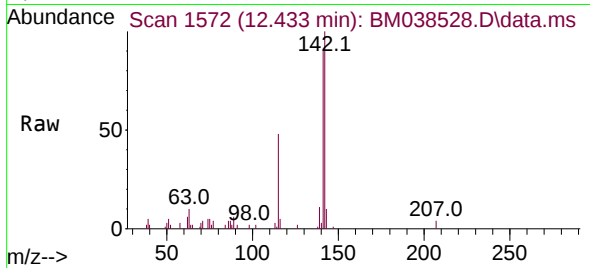
Tgt Ion:107 Resp: 8438
Ion Ratio Lower Upper
107 100
144 29.9 22.0 33.0
142 79.1 67.5 101.3





#37
2-Methylnaphthalene
Concen: 3.045 ng
RT: 12.433 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

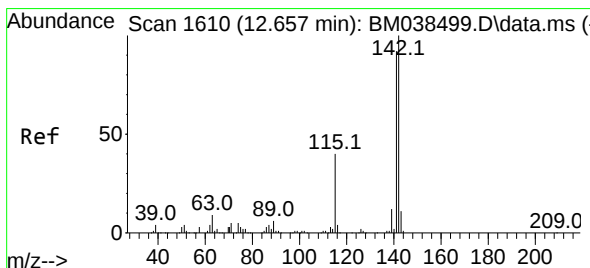
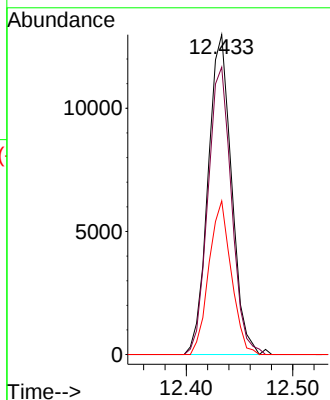
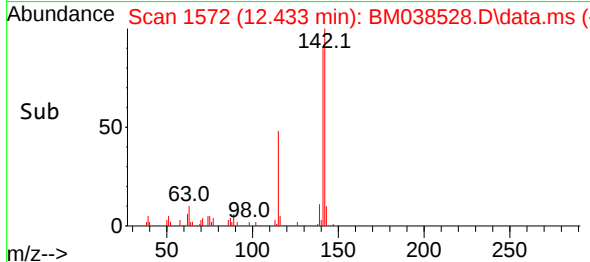
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



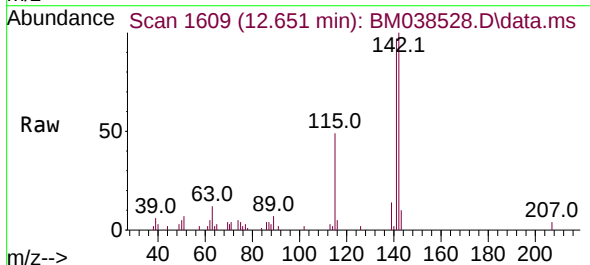
Tgt Ion:142 Resp: 19978
Ion Ratio Lower Upper
142 100
141 89.8 70.7 106.1
115 48.0 30.4 45.6

Manual Integrations
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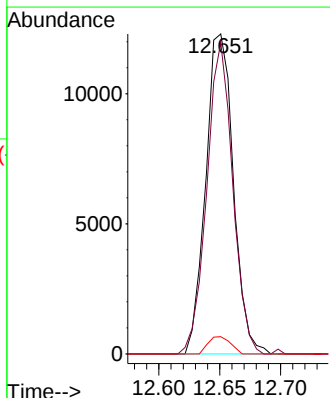
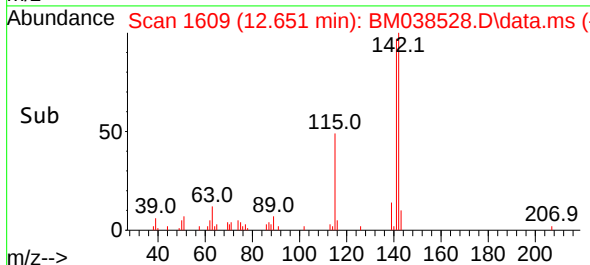
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

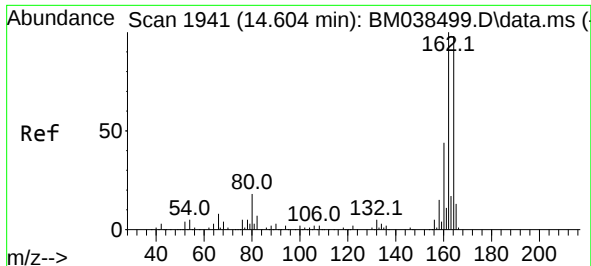


#38
1-Methylnaphthalene
Concen: 3.147 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



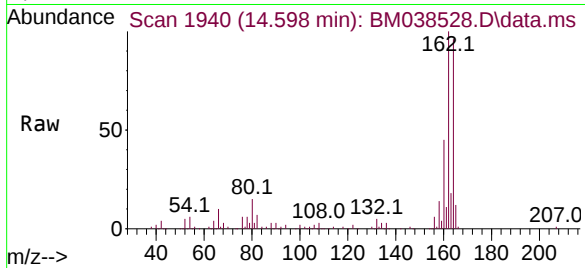
Tgt Ion:142 Resp: 19473
Ion Ratio Lower Upper
142 100
141 97.3 73.4 110.0
116 5.4 3.3 4.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.598 min Scan# 1940
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

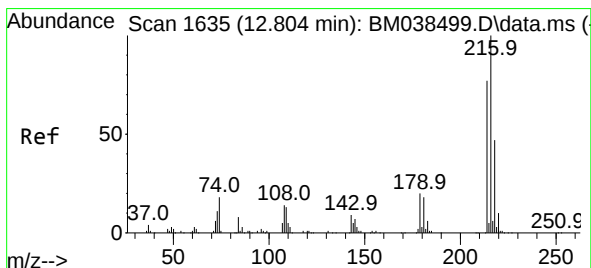
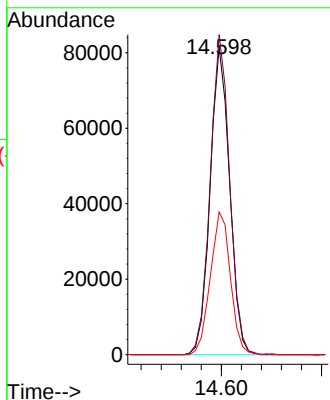
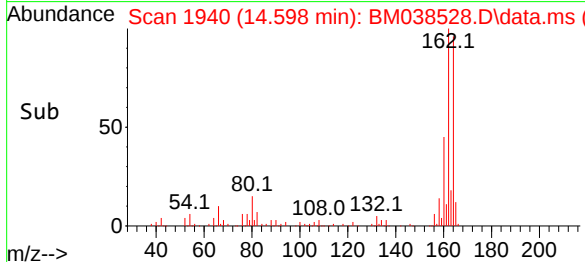
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:164 Resp: 10962
Ion Ratio Lower Upper
164 100
162 104.0 82.0 123.0
160 46.4 35.8 53.6

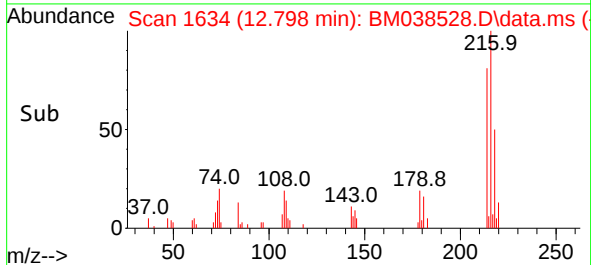
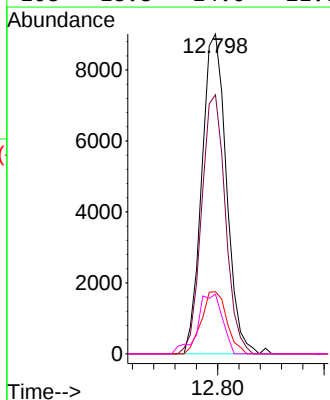
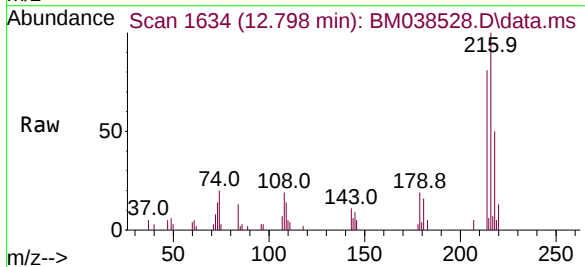
Manual Integrations
APPROVED

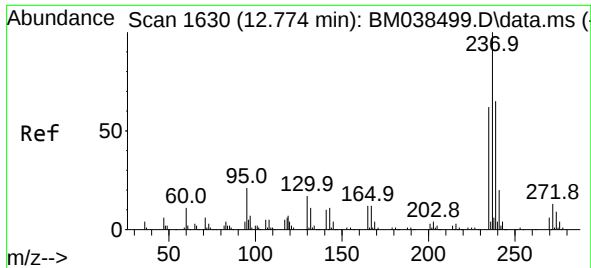
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#40
1,2,4,5-Tetrachlorobenzene
Concen: 3.506 ng
RT: 12.798 min Scan# 1634
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

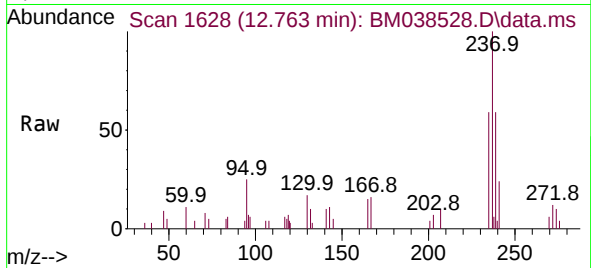
Tgt Ion:216 Resp: 14456
Ion Ratio Lower Upper
216 100
214 78.2 61.4 92.0
179 19.9 15.7 23.5
108 18.8 14.0 21.0





#41
Hexachlorocyclopentadiene
Concen: 3.242 ng
RT: 12.763 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

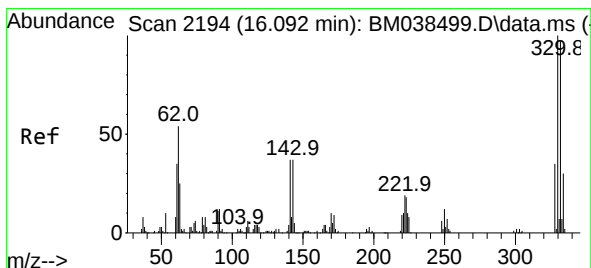
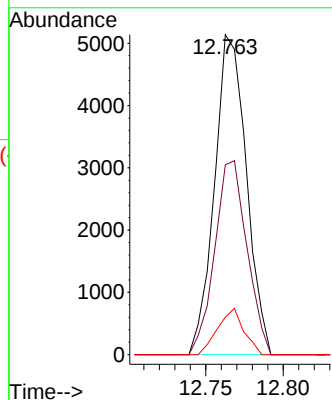
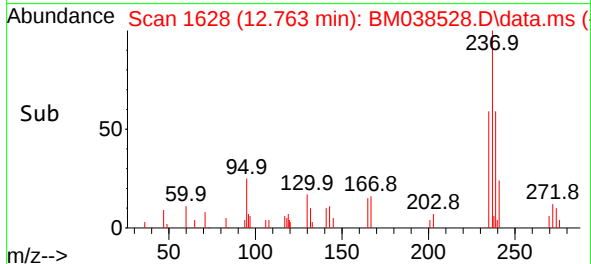
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



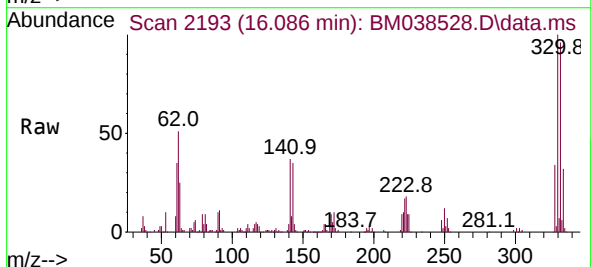
Tgt Ion: 237 Resp: 7349
Ion Ratio Lower Upper
237 100
235 59.3 42.3 82.3
272 11.7 0.0 32.9

Manual Integrations
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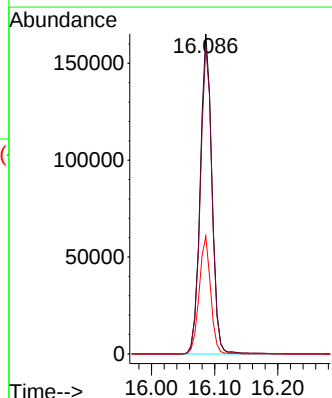
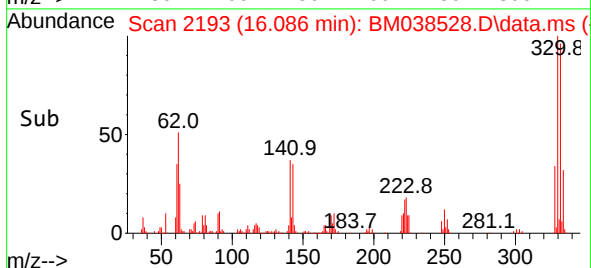
Reviewed By : Christian Giraldo 01/26/2023
Supervised By : Jagrut Upadhyay 01/26/2023

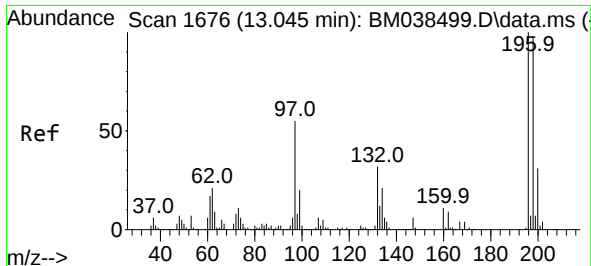


#42
2,4,6-Tribromophenol
Concen: 134.130 ng
RT: 16.086 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion: 330 Resp: 211746
Ion Ratio Lower Upper
330 100
332 96.4 77.5 116.3
141 36.0 29.0 43.4





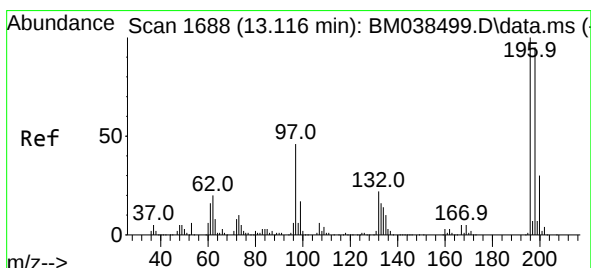
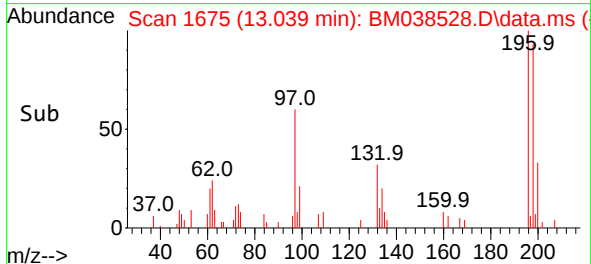
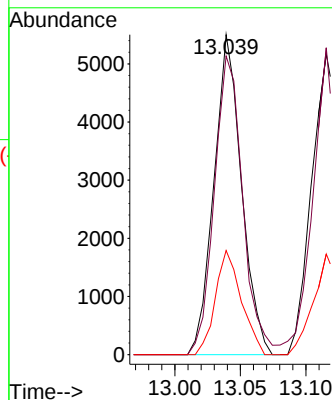
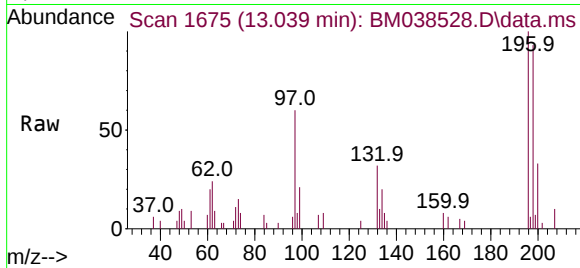
#43
2,4,6-Trichlorophenol
Concen: 3.048 ng
RT: 13.039 min Scan# 1675
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion:196 Resp: 804
Ion Ratio Lower Upper
196 100
198 93.3 77.9 116.9
200 32.5 24.5 36.7

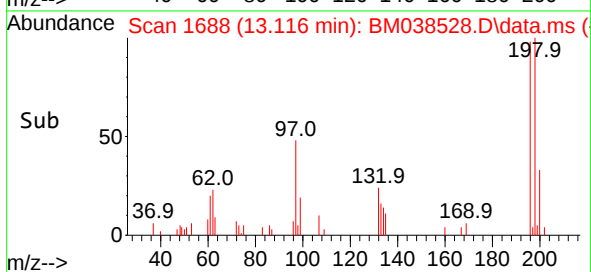
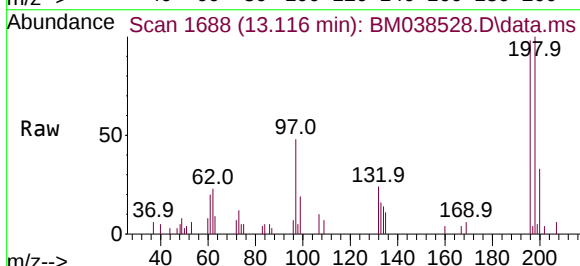
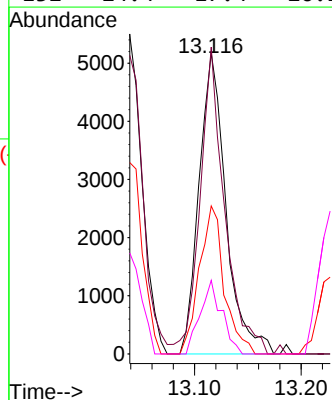
Manual Integrations
APPROVED

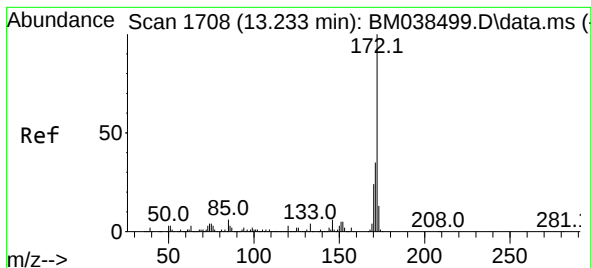
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#44
2,4,5-Trichlorophenol
Concen: 2.930 ng
RT: 13.116 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

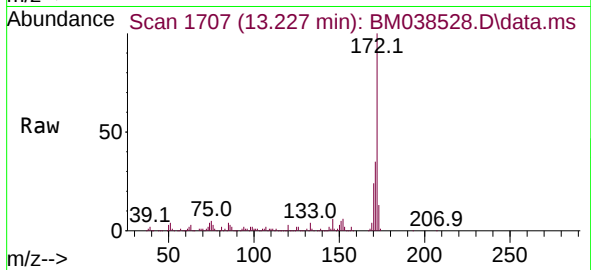
Tgt Ion:196 Resp: 9060
Ion Ratio Lower Upper
196 100
198 102.0 76.0 114.0
97 49.1 36.9 55.3
132 24.4 17.4 26.2





#45
2-Fluorobiphenyl
Concen: 74.991 ng
RT: 13.227 min Scan# 1707
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

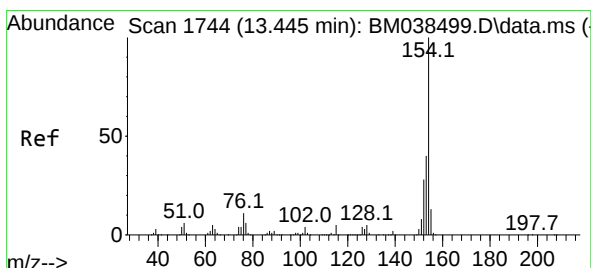
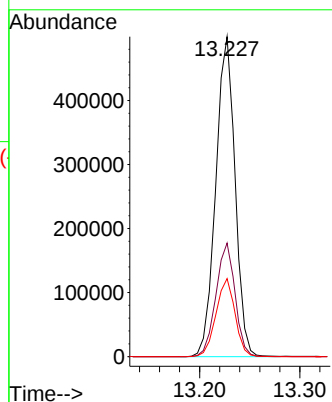
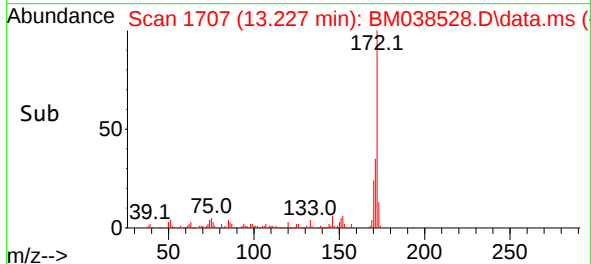
Instrument : BNA_M
ClientSampleId : MDL-SOIL-03-QT4-2022



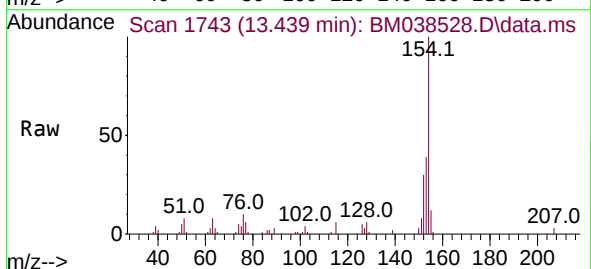
Tgt Ion:172 Resp: 667391
Ion Ratio Lower Upper
172 100
171 35.5 28.0 42.0
170 24.4 19.5 29.3

Manual Integrations
APPROVED

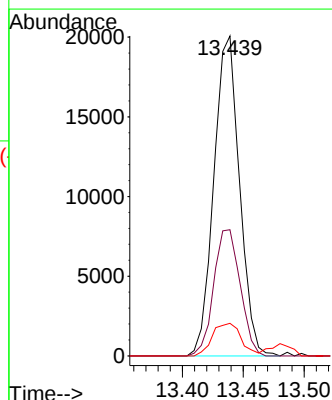
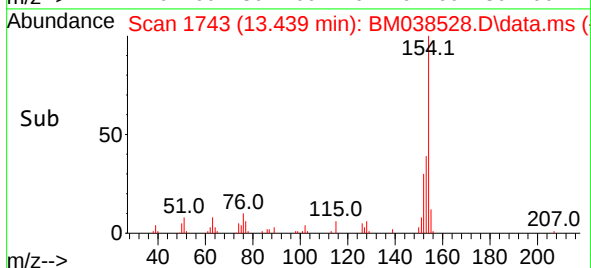
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

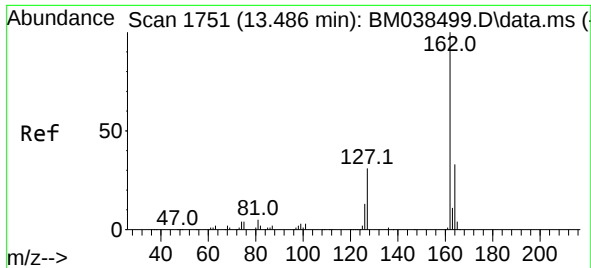


#46
1,1'-Biphenyl
Concen: 3.346 ng
RT: 13.439 min Scan# 1743
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



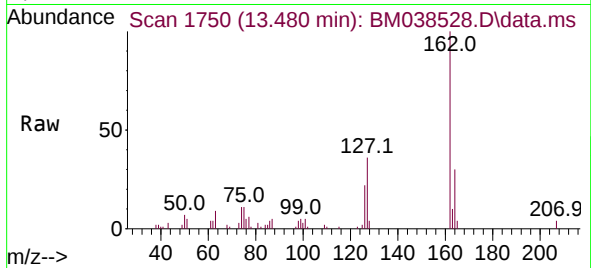
Tgt Ion:154 Resp: 29381
Ion Ratio Lower Upper
154 100
153 39.4 20.1 60.1
76 10.2 0.0 31.3





#47
2-Chloronaphthalene
Concen: 3.331 ng
RT: 13.480 min Scan# 1750
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

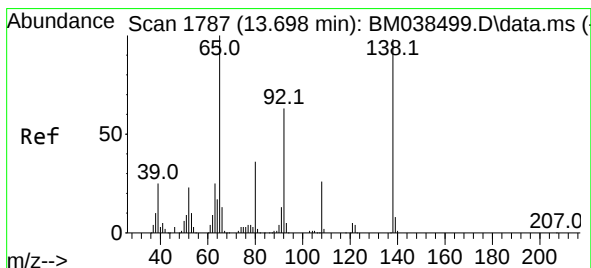
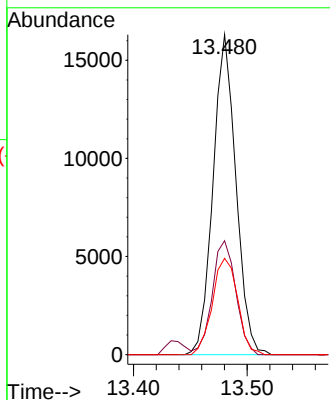
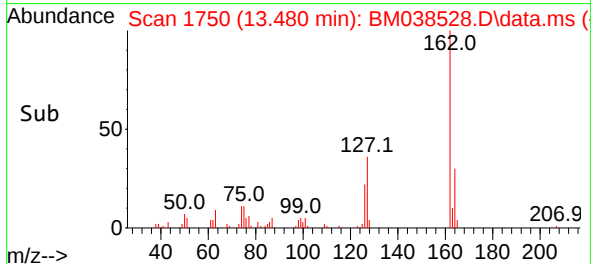
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



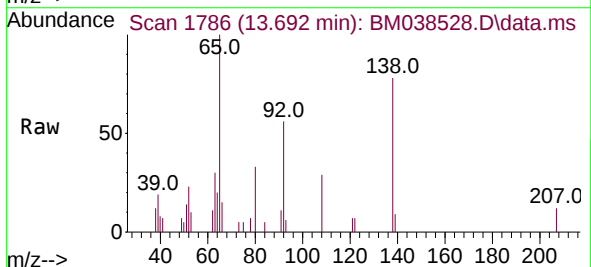
Tgt Ion:162 Resp: 2282
Ion Ratio Lower Upper
162 100
127 35.6 27.4 41.2
164 30.1 26.7 40.1

Manual Integrations
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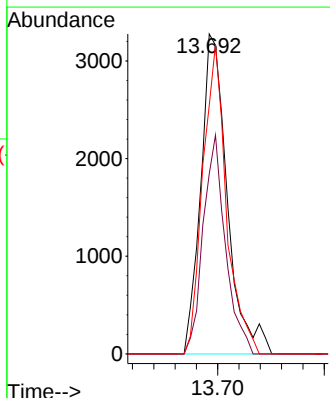
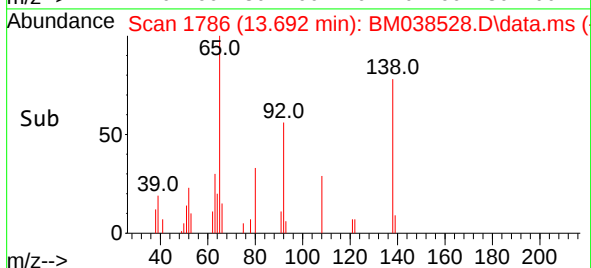
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

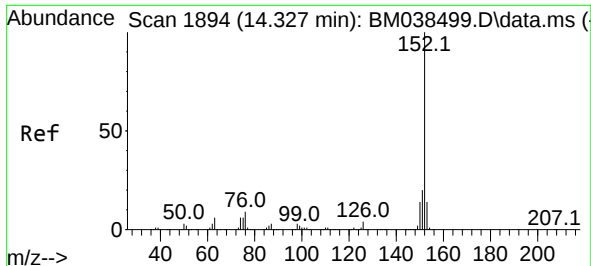


#48
2-Nitroaniline
Concen: 2.813 ng
RT: 13.692 min Scan# 1786
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



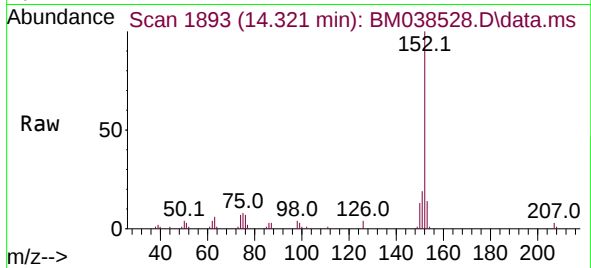
Tgt Ion: 65 Resp: 5661
Ion Ratio Lower Upper
65 100
92 56.2 50.0 75.0
138 77.6 78.2 117.2#





#49
Acenaphthylene
Concen: 2.928 ng
RT: 14.321 min Scan# 1893
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

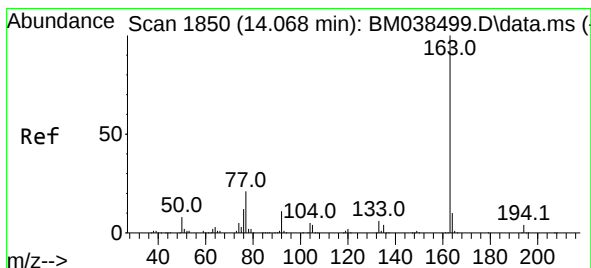
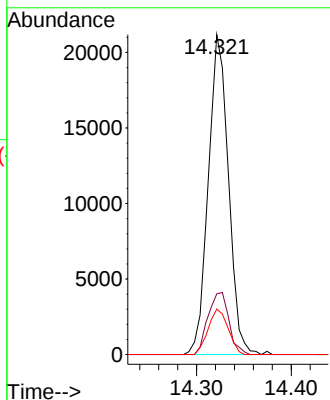
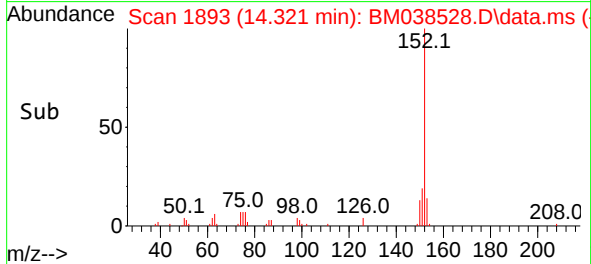
Instrument : BNA_M
ClientSampleId : MDL-SOIL-03-QT4-2022



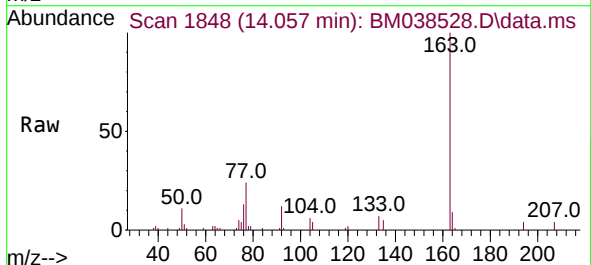
Tgt Ion:152 Resp: 31395
Ion Ratio Lower Upper
152 100
151 19.0 16.0 24.0
153 14.2 10.8 16.2

Manual Integrations
APPROVED

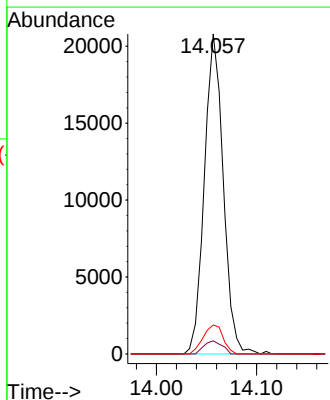
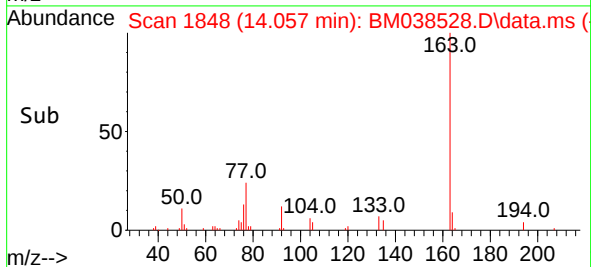
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

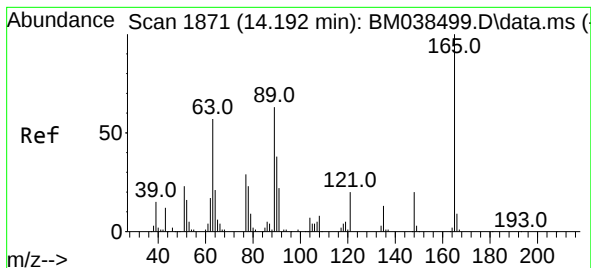


#50
Dimethylphthalate
Concen: 3.220 ng
RT: 14.057 min Scan# 1848
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion:163 Resp: 27175
Ion Ratio Lower Upper
163 100
194 4.1 3.3 4.9
164 9.0 8.0 12.0





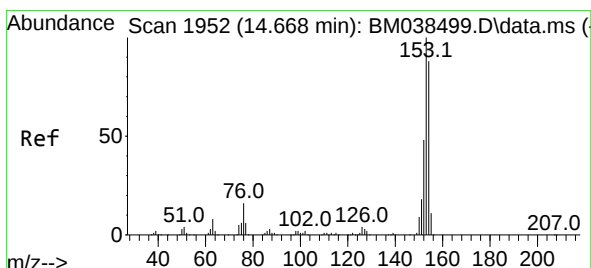
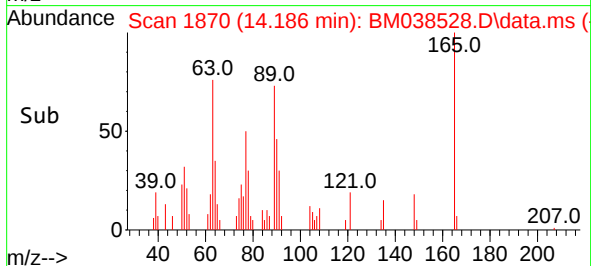
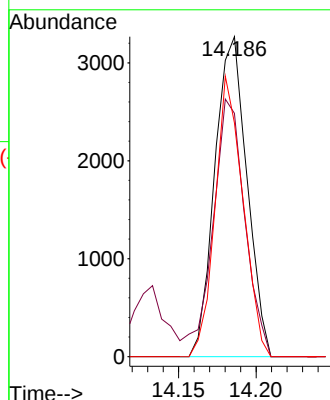
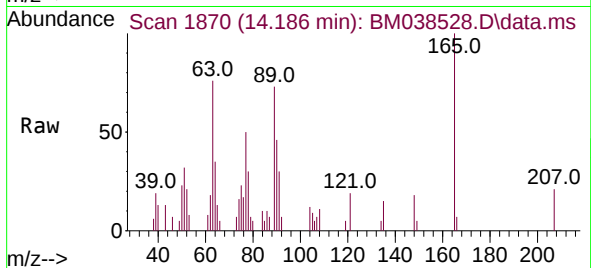
#51
2,6-Dinitrotoluene
Concen: 2.656 ng
RT: 14.186 min Scan# 1871
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion:165 Resp: 471
Ion Ratio Lower Upper
165 100
63 76.0 51.0 76.4
89 73.0 50.2 75.4

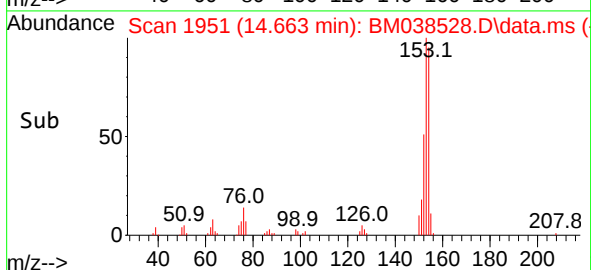
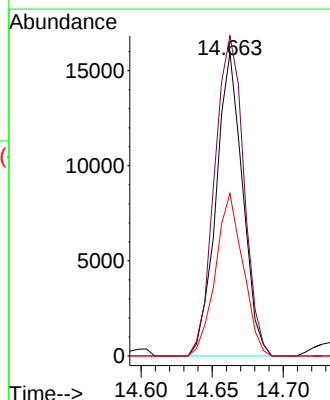
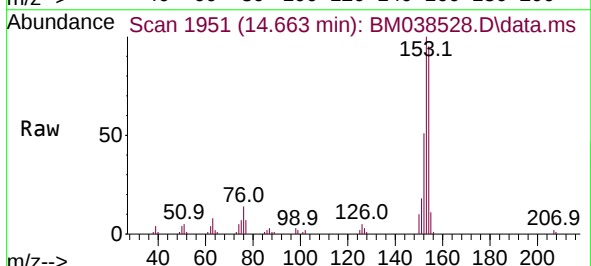
Manual Integrations
APPROVED

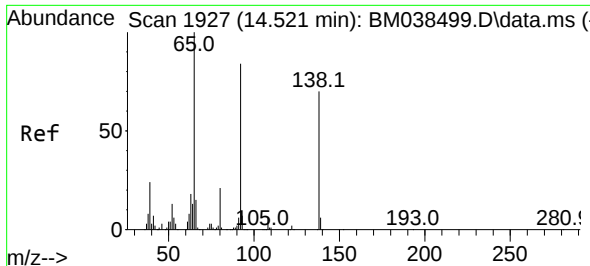
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#52
Acenaphthene
Concen: 3.176 ng
RT: 14.663 min Scan# 1951
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

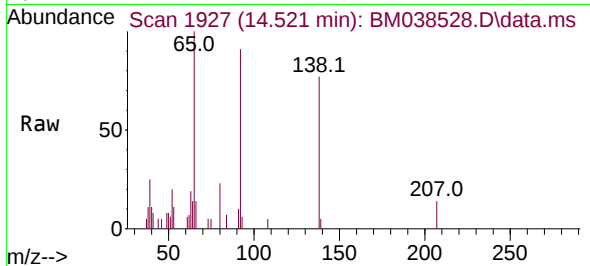
Tgt Ion:154 Resp: 20768
Ion Ratio Lower Upper
154 100
153 105.6 90.7 136.1
152 53.6 43.8 65.8





#53
3-Nitroaniline
Concen: 2.580 ng
RT: 14.521 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

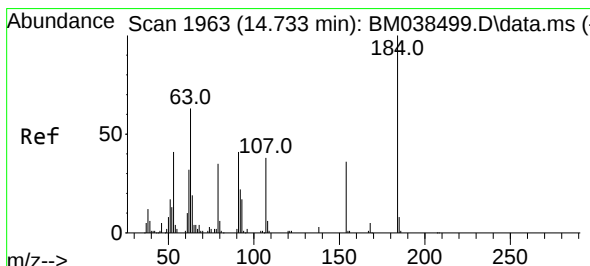
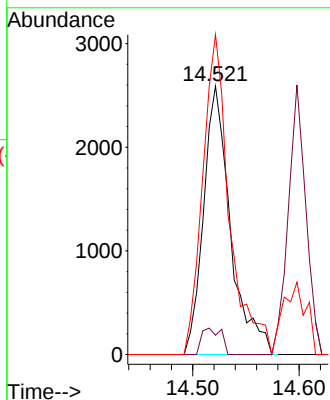
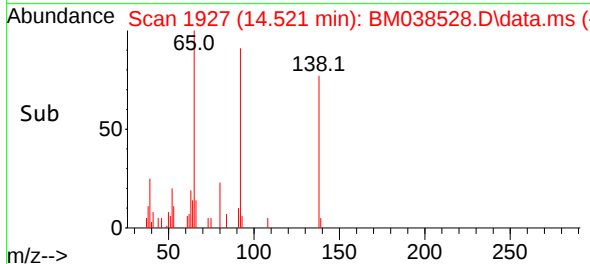
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



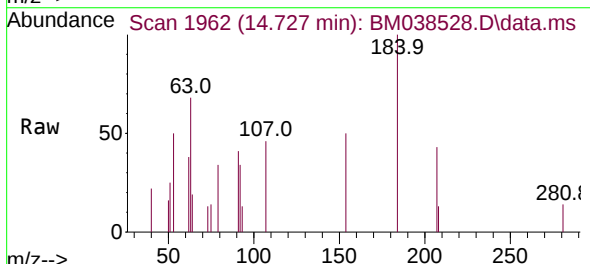
Tgt Ion:138 Resp: 455
Ion Ratio Lower Upper
138 100
108 7.2 7.0 10.4
92 119.1 95.7 143.5

Manual Integrations
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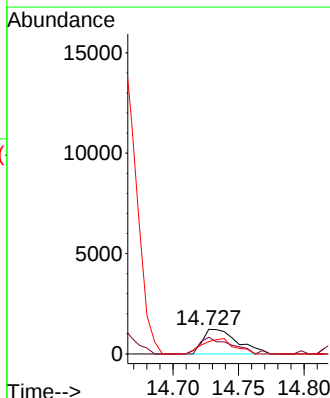
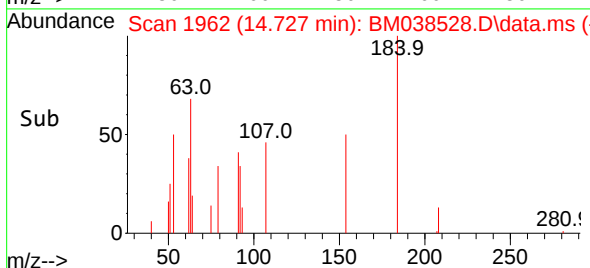
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

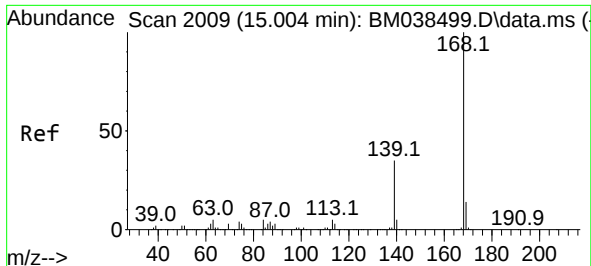


#54
2,4-Dinitrophenol
Concen: 6.411 ng
RT: 14.727 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



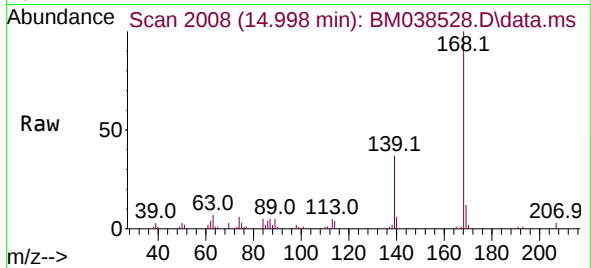
Tgt Ion:184 Resp: 2283
Ion Ratio Lower Upper
184 100
63 67.5 52.2 78.4
154 49.8 48.9 73.3





#55
Dibenzofuran
Concen: 3.241 ng
RT: 14.998 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

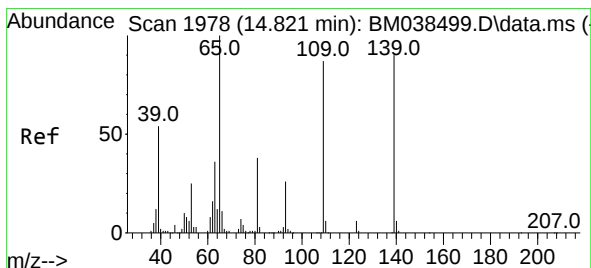
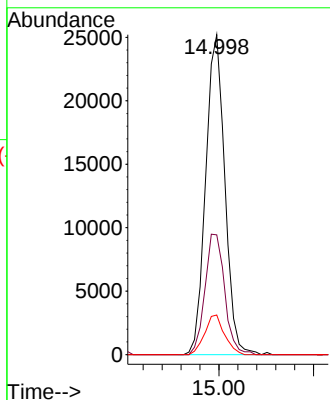
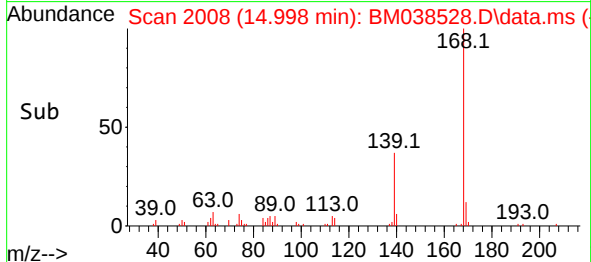
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



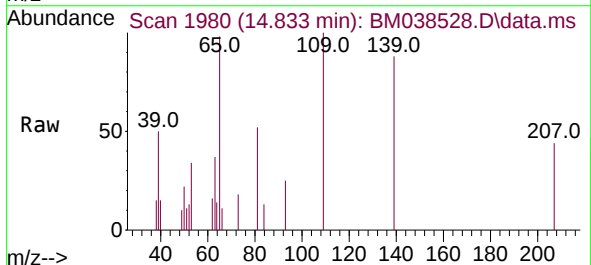
Tgt Ion:168 Resp: 35431
Ion Ratio Lower Upper
168 100
139 37.4 27.9 41.9
169 12.4 11.0 16.6

Manual Integrations
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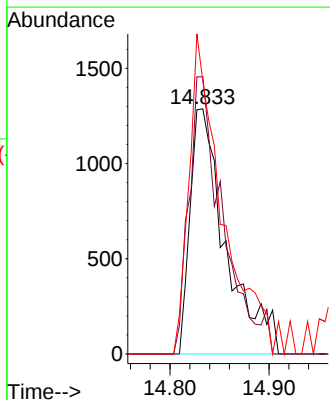
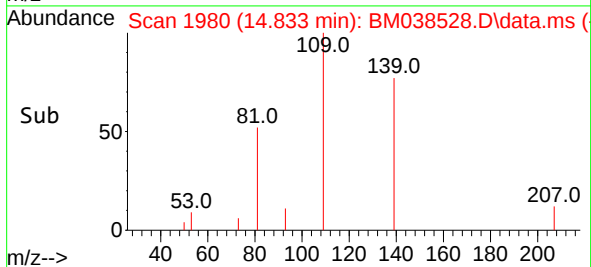
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

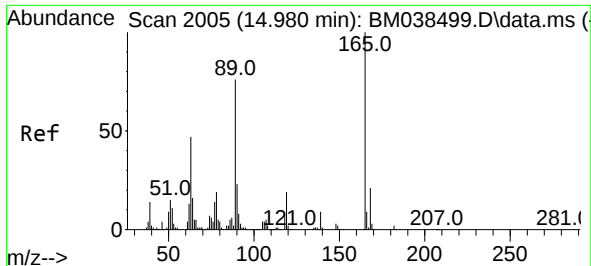


#56
4-Nitrophenol
Concen: 2.223 ng m
RT: 14.833 min Scan# 1980
Delta R.T. 0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



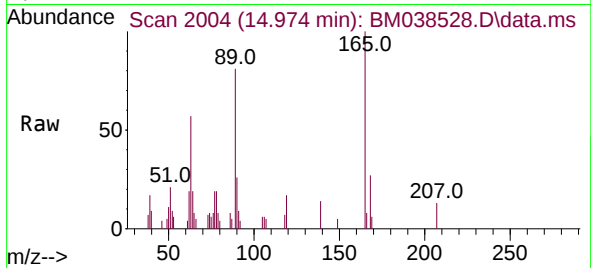
Tgt Ion:139 Resp: 3231
Ion Ratio Lower Upper
139 100
109 113.1 76.8 116.8
65 111.0 91.7 131.7





#57
2,4-Dinitrotoluene
Concen: 2.598 ng
RT: 14.974 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

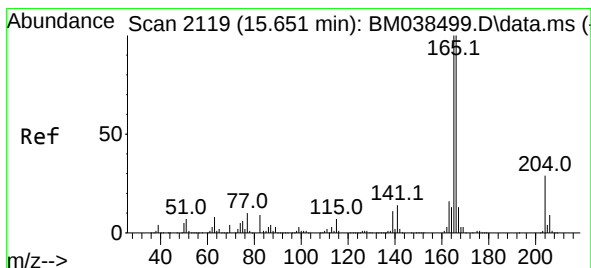
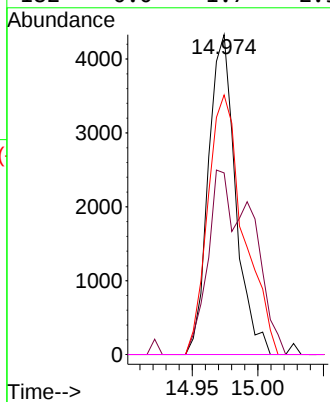
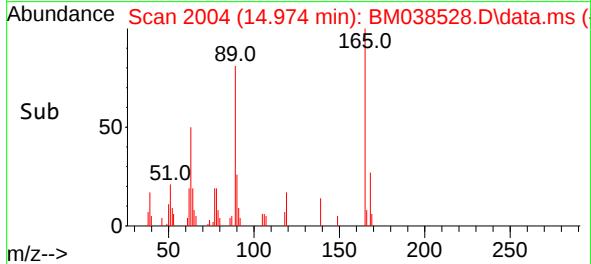
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:165 Resp: 6254
Ion Ratio Lower Upper
165 100
63 56.8 37.8 56.8
89 81.1 60.9 91.3
182 0.0 1.7 2.5#

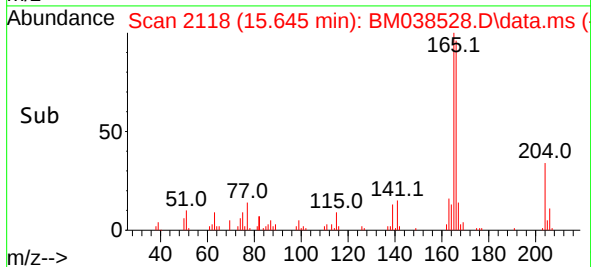
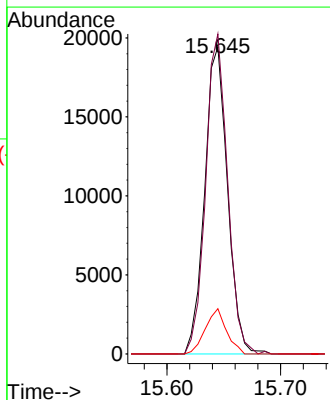
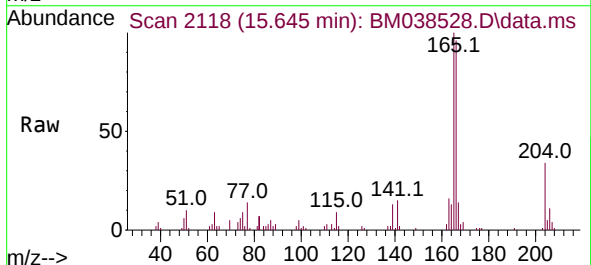
Manual Integrations
APPROVED

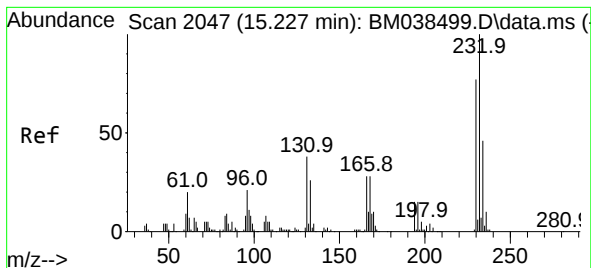
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#58
Fluorene
Concen: 3.064 ng
RT: 15.645 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

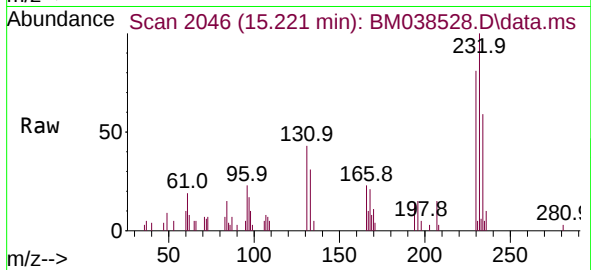
Tgt Ion:166 Resp: 27169
Ion Ratio Lower Upper
166 100
165 104.2 79.6 119.4
167 14.7 10.5 15.7





#59
2,3,4,6-Tetrachlorophenol
Concen: 3.008 ng
RT: 15.221 min Scan# 2046
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

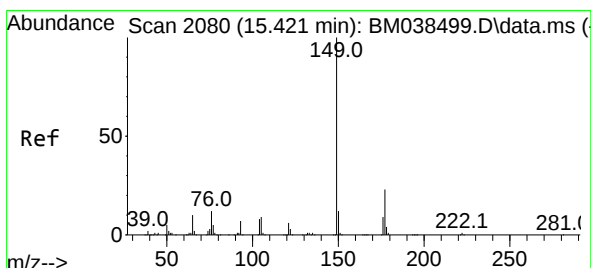
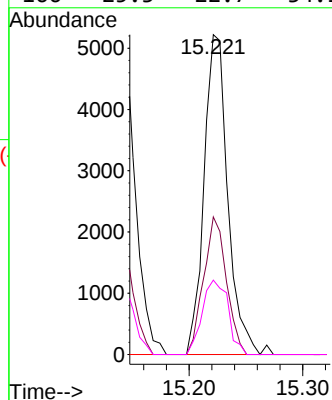
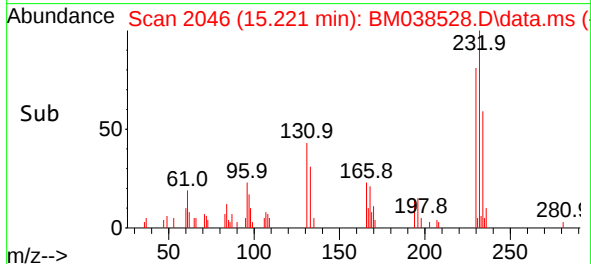
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



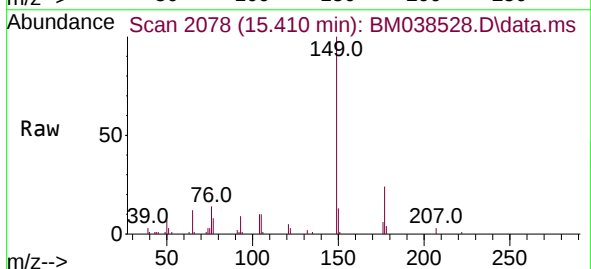
Tgt Ion:232 Resp: 7601
Ion Ratio Lower Upper
232 100
131 41.2 31.0 46.4
130 0.0 1.8 2.6
166 25.3 22.7 34.1

Manual Integrations
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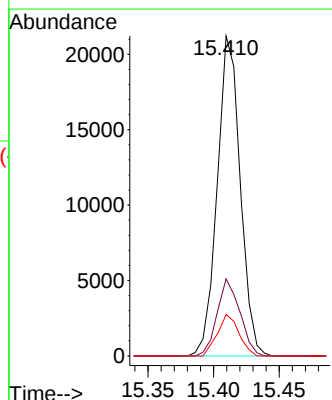
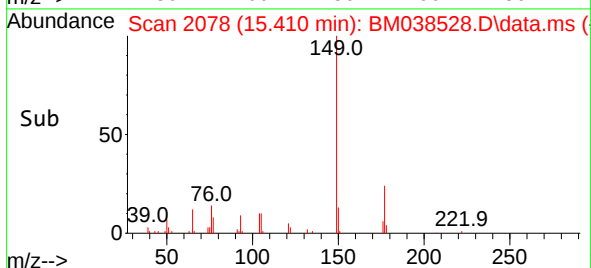
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

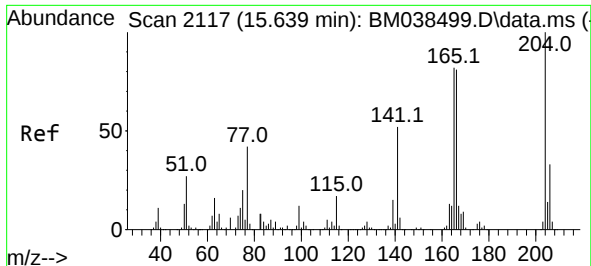


#60
Diethylphthalate
Concen: 3.138 ng
RT: 15.410 min Scan# 2078
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion:149 Resp: 25936
Ion Ratio Lower Upper
149 100
177 24.1 18.6 27.8
150 12.9 9.5 14.3





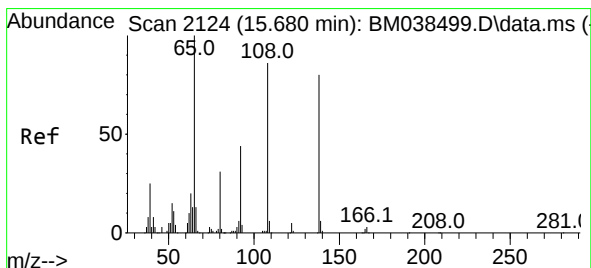
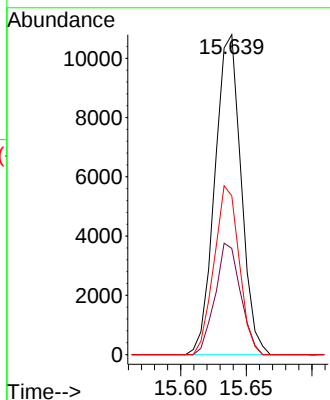
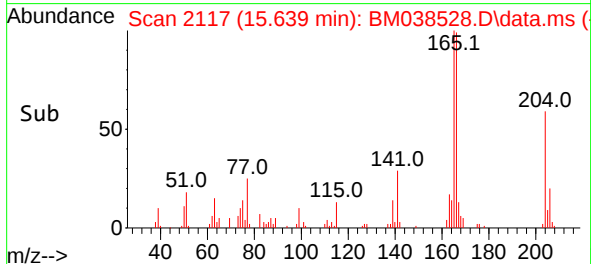
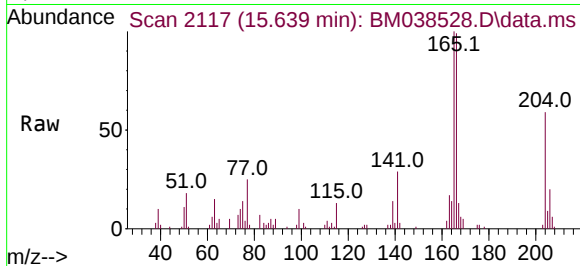
#61
4-Chlorophenyl-phenylether
Concen: 3.227 ng
RT: 15.639 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022

Tgt Ion:204 Resp: 1502
Ion Ratio Lower Upper
204 100
206 33.2 26.2 39.4
141 49.6 41.5 62.3

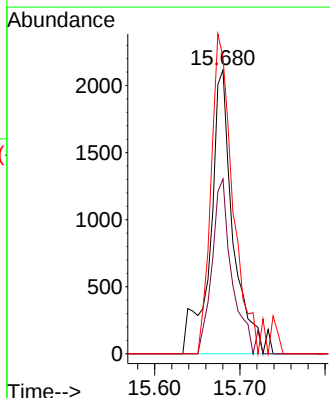
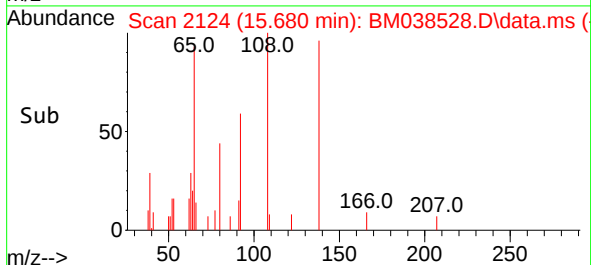
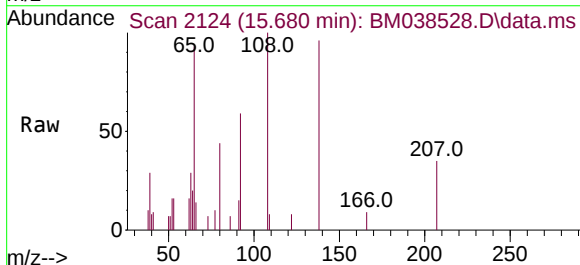
Manual Integrations
APPROVED

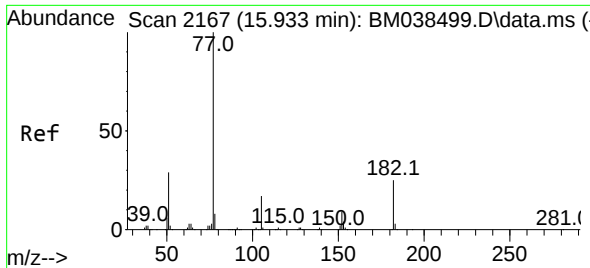
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#62
4-Nitroaniline
Concen: 5.201 ng
RT: 15.680 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

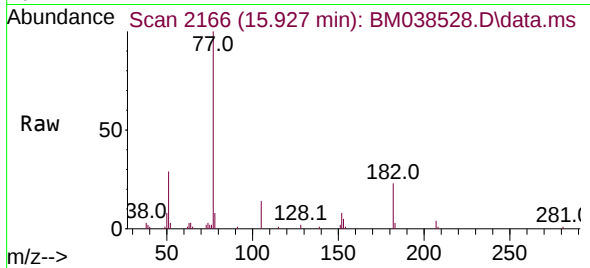
Tgt Ion:138 Resp: 3930
Ion Ratio Lower Upper
138 100
92 61.6 35.2 75.2
108 104.4 87.3 127.3





#63
Azobenzene
Concen: 3.033 ng
RT: 15.927 min Scan# 2166
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

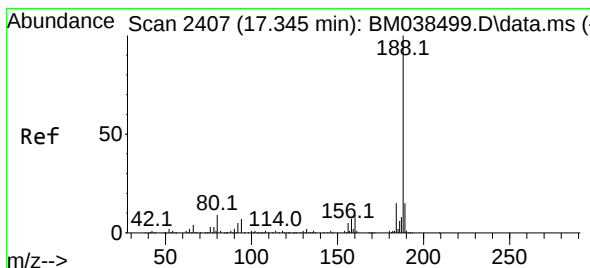
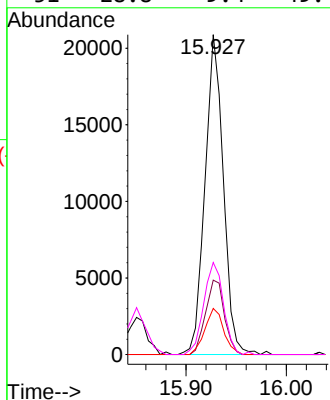
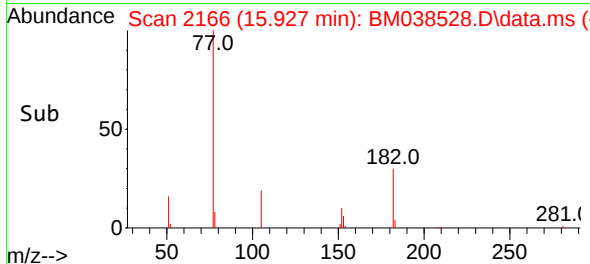
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion: 77 Resp: 2655
Ion Ratio Lower Upper
77 100
182 23.3 4.7 44.7
105 14.4 0.0 36.7
51 28.8 9.4 49.4

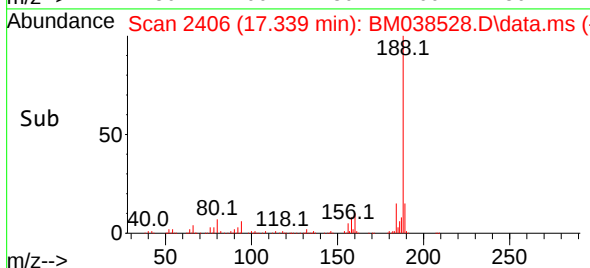
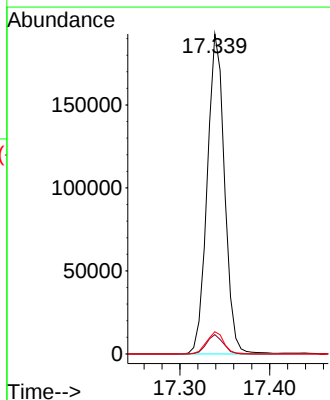
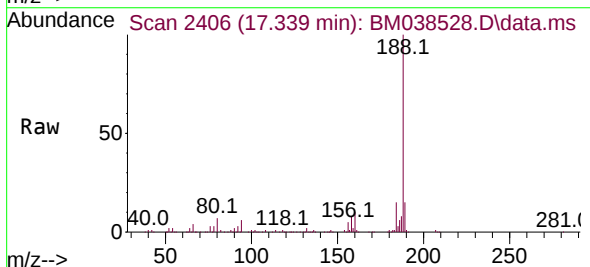
Manual Integrations
APPROVED

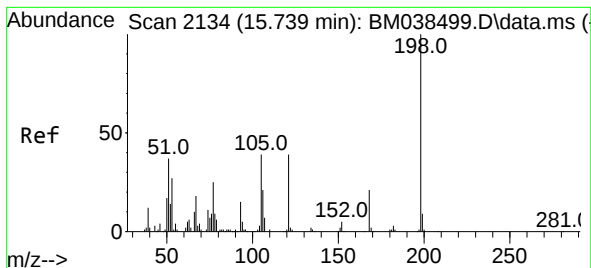
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.339 min Scan# 2406
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

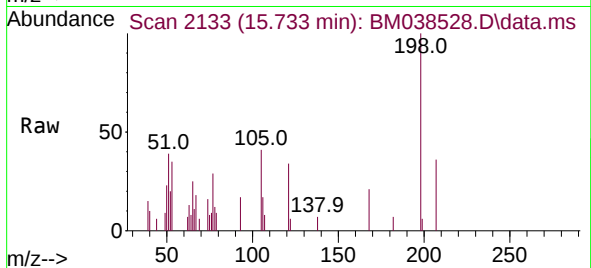
Tgt Ion:188 Resp: 259940
Ion Ratio Lower Upper
188 100
94 6.0 6.0 9.0
80 6.9 6.9 10.3





#65
4,6-Dinitro-2-methylphenol
Concen: 2.333 ng
RT: 15.733 min Scan# 2133
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

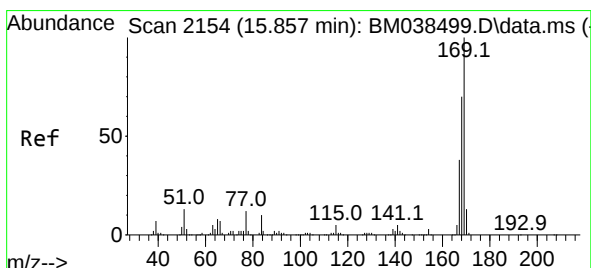
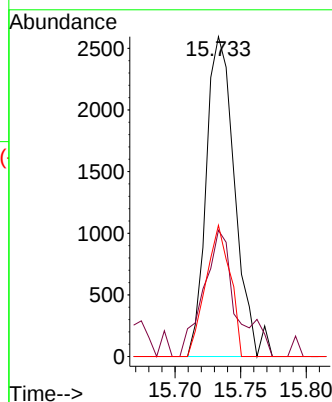
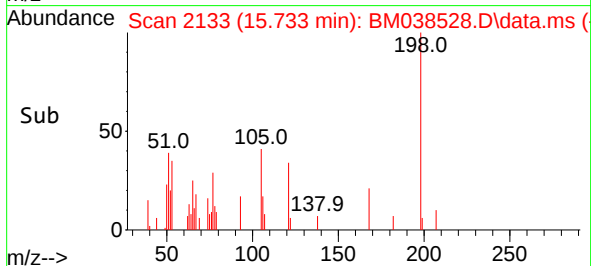
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



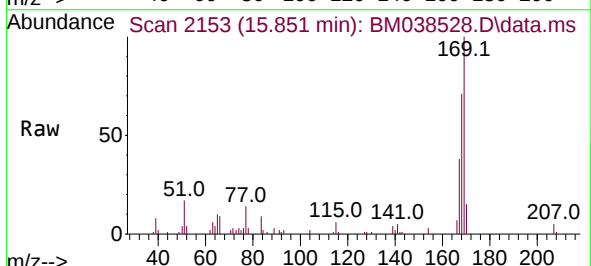
Tgt Ion:198 Resp: 393
Ion Ratio Lower Upper
198 100
51 39.5 18.8 58.8
105 41.0 19.7 59.7

Manual Integrations
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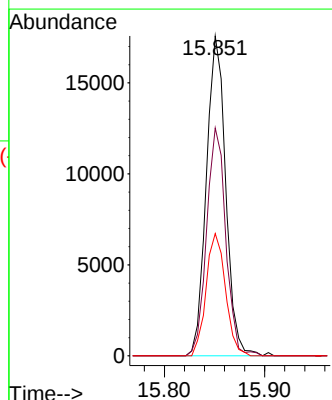
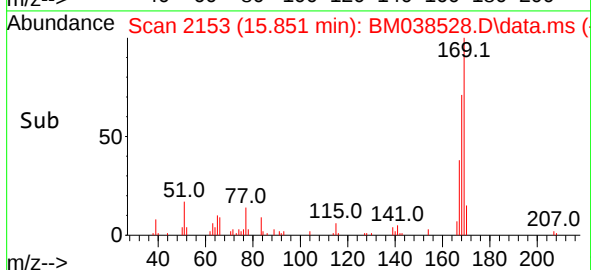
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

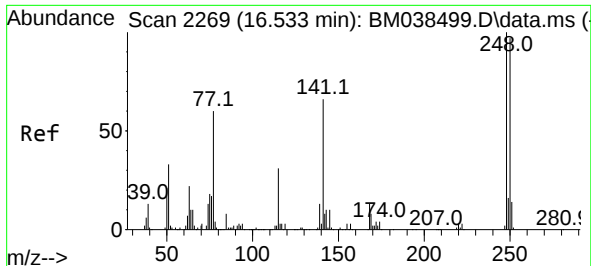


#66
n-Nitrosodiphenylamine
Concen: 3.020 ng
RT: 15.851 min Scan# 2153
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



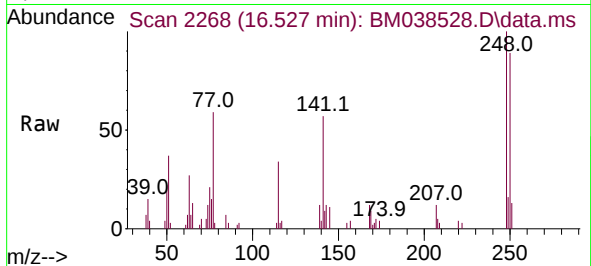
Tgt Ion:169 Resp: 23565
Ion Ratio Lower Upper
169 100
168 71.2 55.8 83.8
167 38.2 30.3 45.5





#67
4-Bromophenyl-phenylether
Concen: 3.117 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

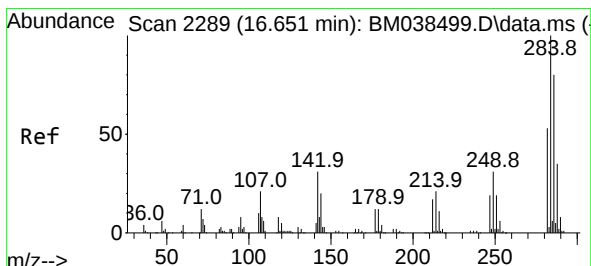
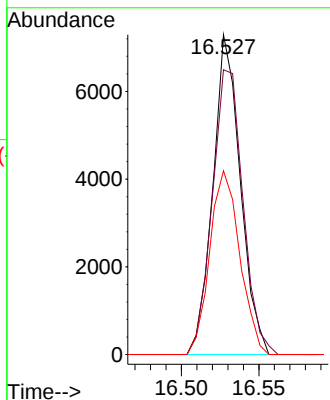
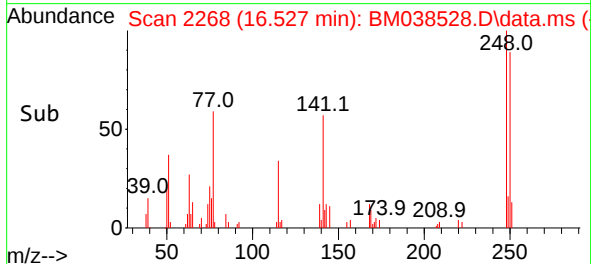
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



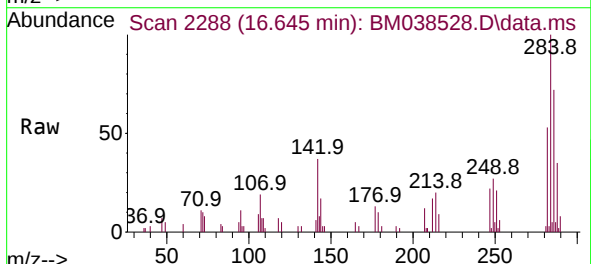
Tgt Ion:248 Resp: 8988
Ion Ratio Lower Upper
248 100
250 89.0 77.6 116.4
141 57.4 52.5 78.7

Manual Integrations
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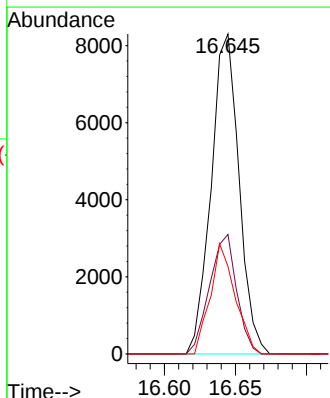
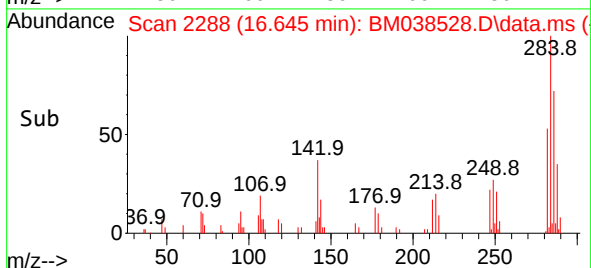
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

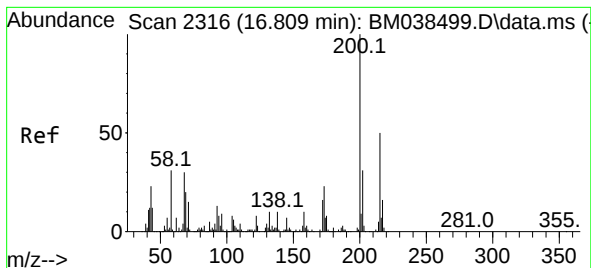


#68
Hexachlorobenzene
Concen: 3.644 ng
RT: 16.645 min Scan# 2288
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion:284 Resp: 11339
Ion Ratio Lower Upper
284 100
142 37.3 25.2 37.8
249 27.3 24.4 36.6





#69

Atrazine

Concen: 3.124 ng

RT: 16.798 min Scan# 2314

Delta R.T. -0.012 min

Lab File: BM038528.D

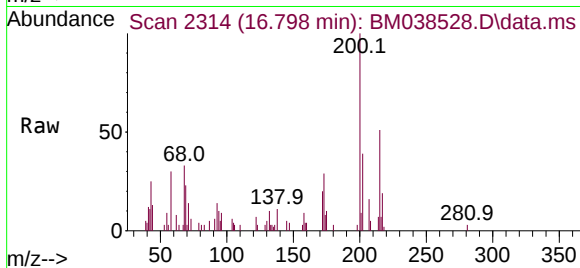
Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

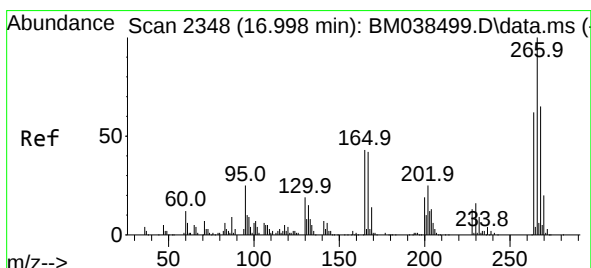
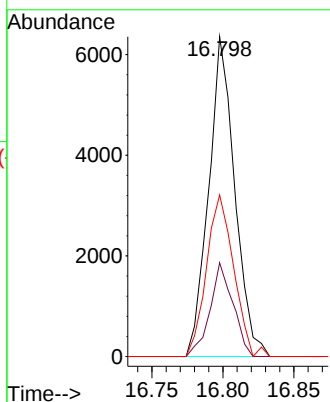
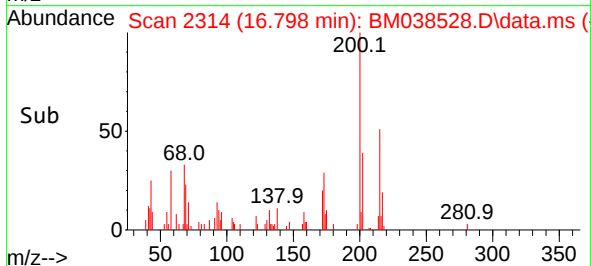


Tgt Ion:	200	Resp:	813
Ion Ratio	Lower	Upper	
200	100		
173	29.3	3.5	43.5
215	50.5	30.0	70.0

Manual Integrations

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Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#70

Pentachlorophenol

Concen: 2.439 ng

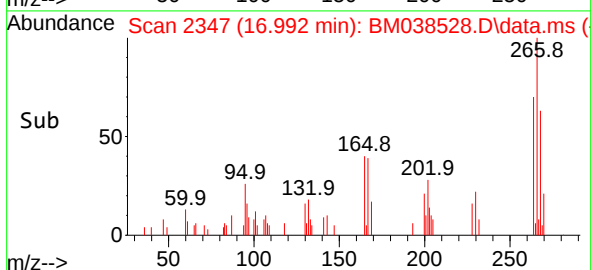
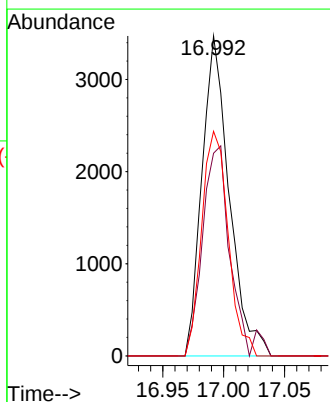
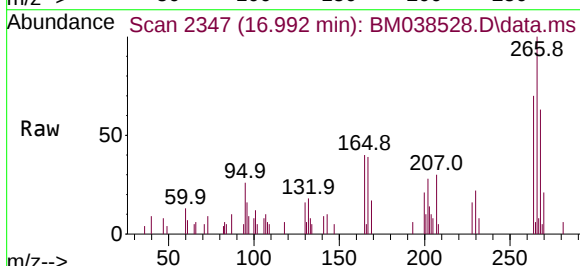
RT: 16.992 min Scan# 2347

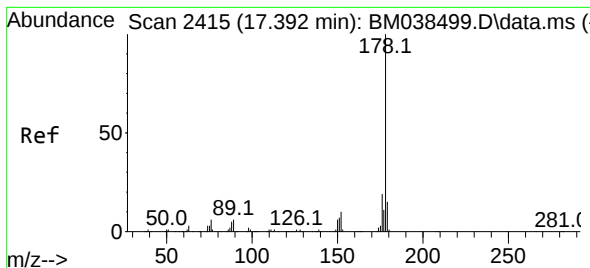
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Tgt Ion:	266	Resp:	5404
Ion Ratio	Lower	Upper	
266	100		
268	63.3	51.7	77.5
264	70.2	49.4	74.0





#71

Phenanthrene

Concen: 3.241 ng

RT: 17.380 min Scan# 2415

Delta R.T. -0.012 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

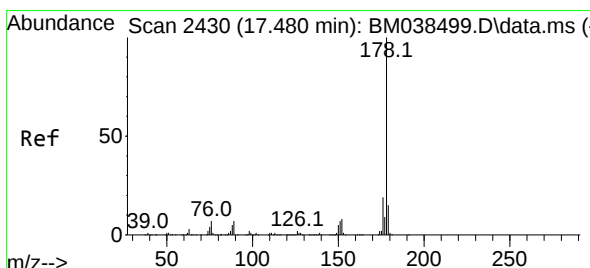
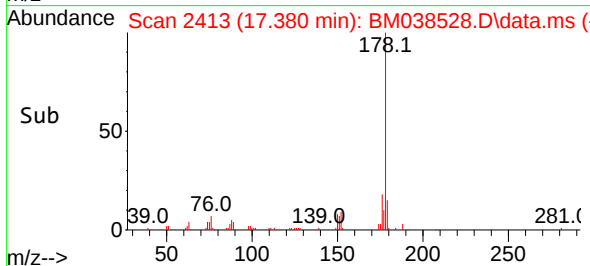
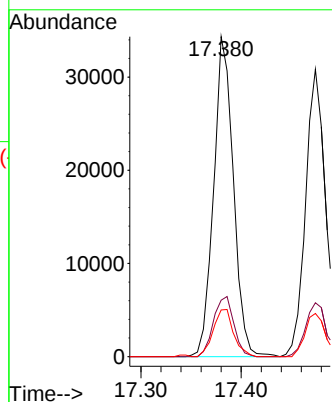
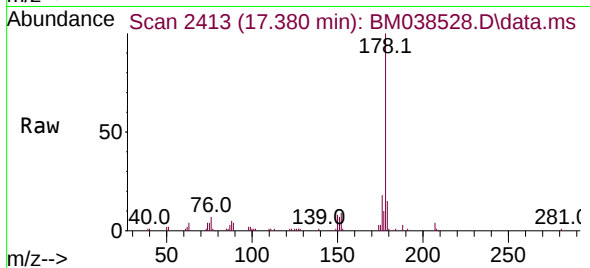
Tgt Ion:178	Resp:	47043
Ion Ratio	Lower	Upper
178	100	
176	17.6	15.4 23.2
179	14.6	12.2 18.4

Manual Integrations

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Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#72

Anthracene

Concen: 3.014 ng

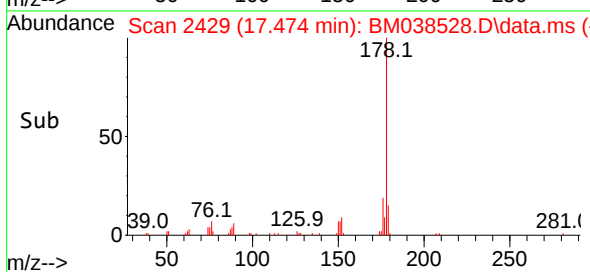
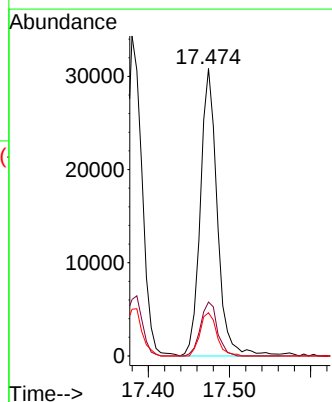
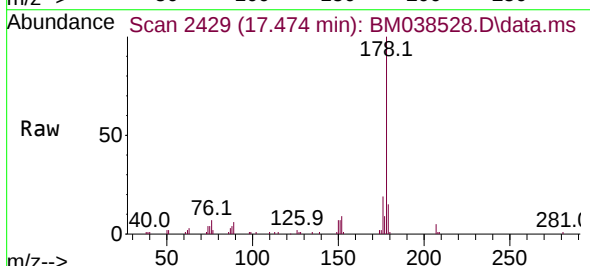
RT: 17.474 min Scan# 2429

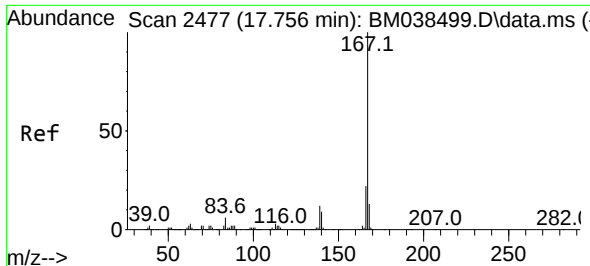
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

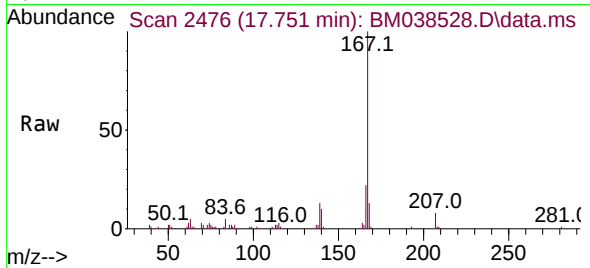
Tgt Ion:178	Resp:	44524
Ion Ratio	Lower	Upper
178	100	
176	18.8	15.0 22.6
179	15.0	12.2 18.4





#73
 Carbazole
 Concen: 2.868 ng
 RT: 17.751 min Scan# 2477
 Delta R.T. -0.006 min
 Lab File: BM038528.D
 Acq: 25 Jan 2023 12:13

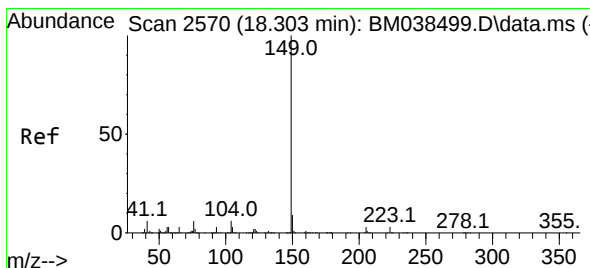
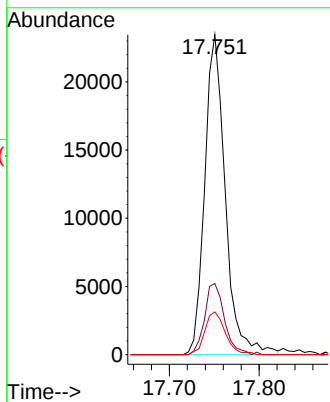
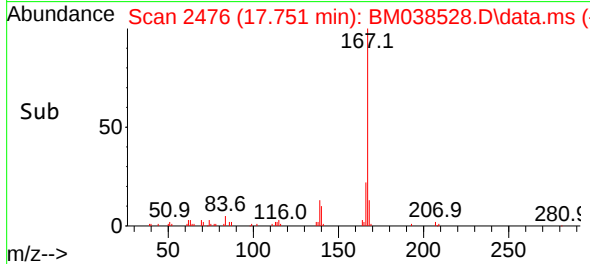
Instrument : BNA_M
 ClientSampleId : MDL-SOIL-03-QT4-2022



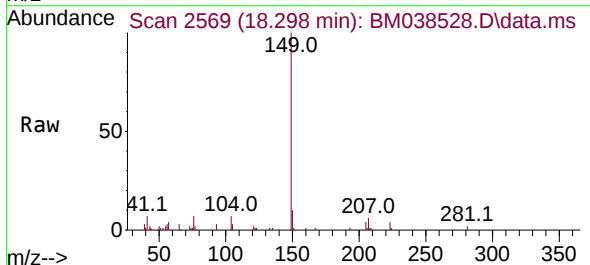
Tgt Ion:167 Resp: 37311
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.7 26.5
 139 13.3 9.4 14.0

Manual Integrations
 APPROVED

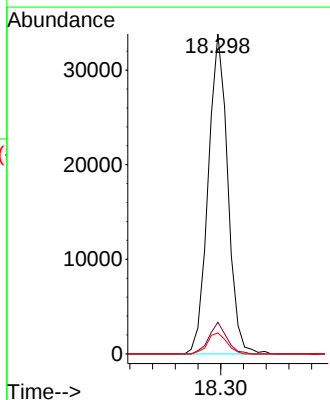
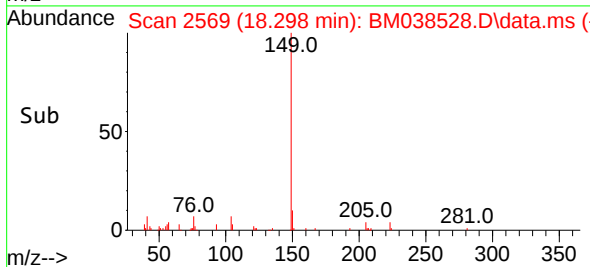
Reviewed By :Christian Giraldo 01/26/2023
 Supervised By :Jagrut Upadhyay 01/26/2023

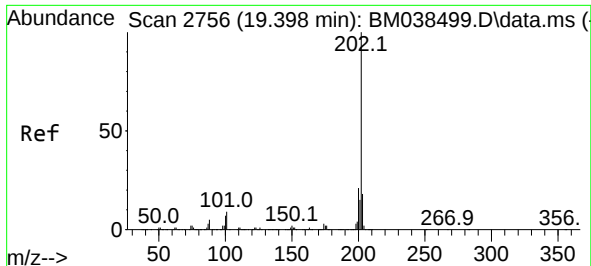


#74
 Di-n-butylphthalate
 Concen: 2.825 ng
 RT: 18.298 min Scan# 2569
 Delta R.T. -0.006 min
 Lab File: BM038528.D
 Acq: 25 Jan 2023 12:13



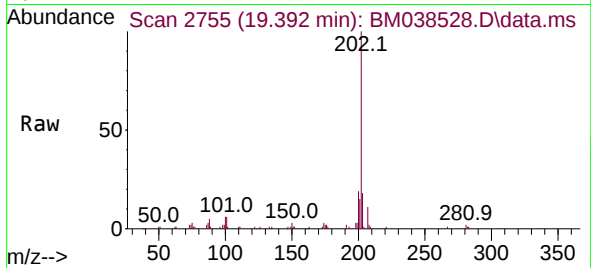
Tgt Ion:149 Resp: 40379
 Ion Ratio Lower Upper
 149 100
 150 9.9 7.4 11.0
 104 6.6 4.6 6.8





#75
Fluoranthene
Concen: 3.056 ng
RT: 19.392 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

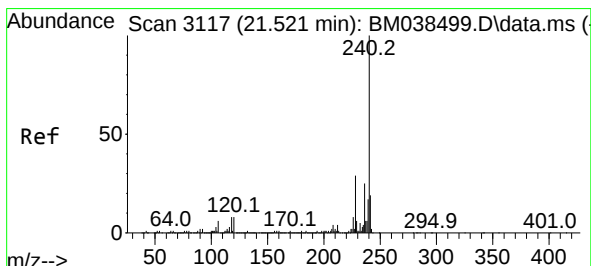
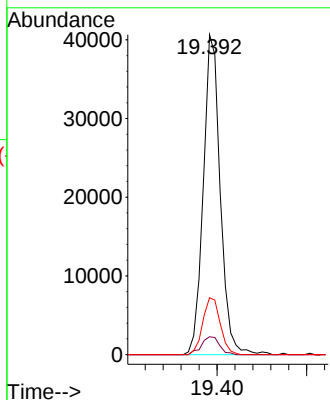
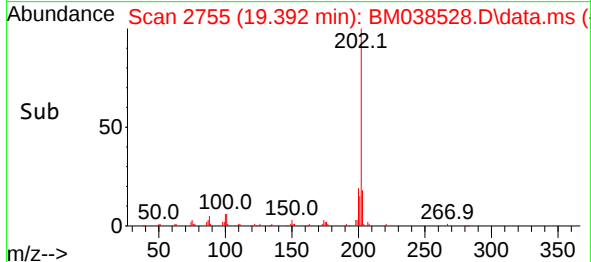
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:202 Resp: 53309
Ion Ratio Lower Upper
202 100
101 6.8 0.0 28.7
203 17.8 0.0 37.6

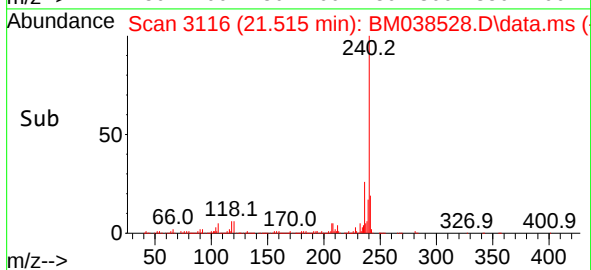
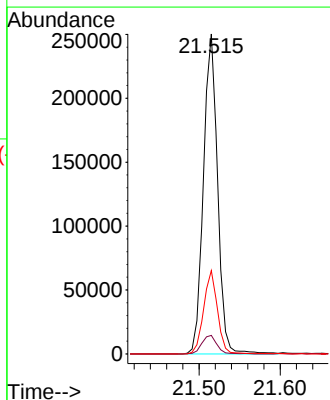
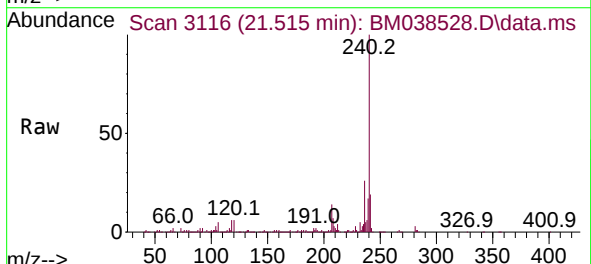
Manual Integrations
APPROVED

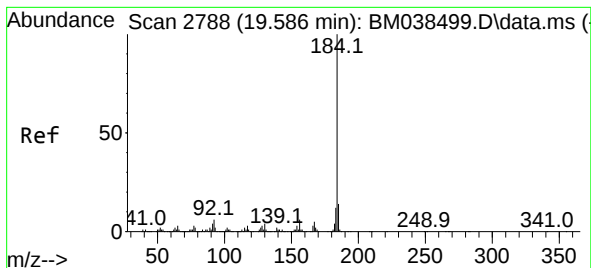
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.515 min Scan# 3116
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion:240 Resp: 304095
Ion Ratio Lower Upper
240 100
120 5.8 6.2 9.2#
236 26.0 20.2 30.2





#77

Benzidine

Concen: 3.077 ng

RT: 19.586 min Scan# 2132

Delta R.T. -0.000 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

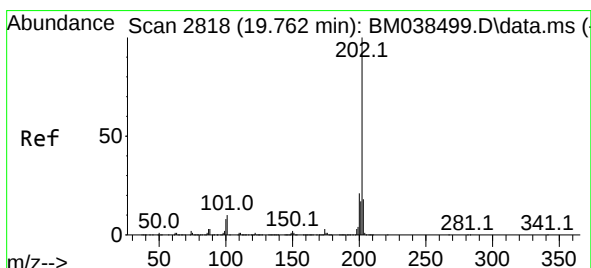
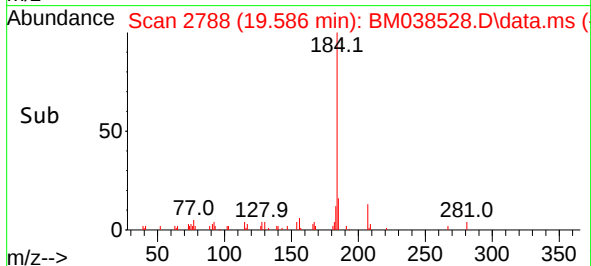
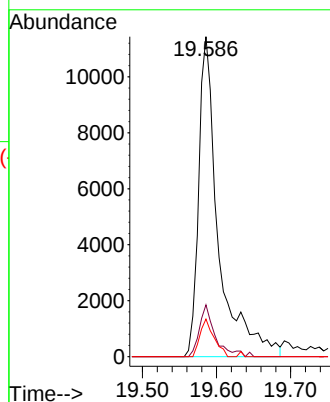
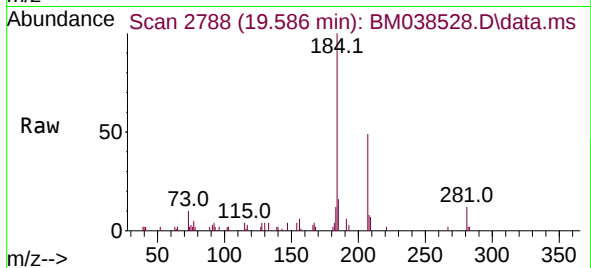
MDL-SOIL-03-QT4-2022

Tgt Ion:	184	Resp:	2132
Ion Ratio	Lower	Upper	
184	100		
185	16.2	10.9	16.3
183	11.7	9.3	13.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#78

Pyrene

Concen: 2.725 ng

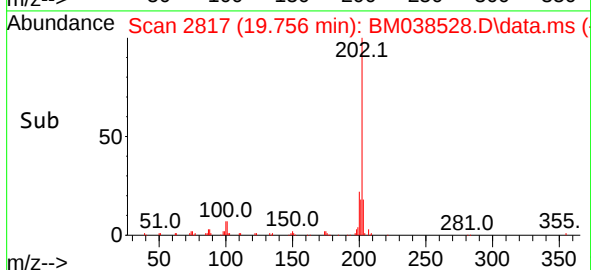
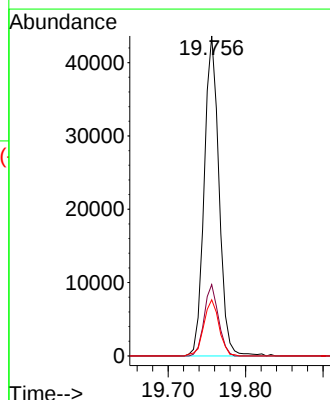
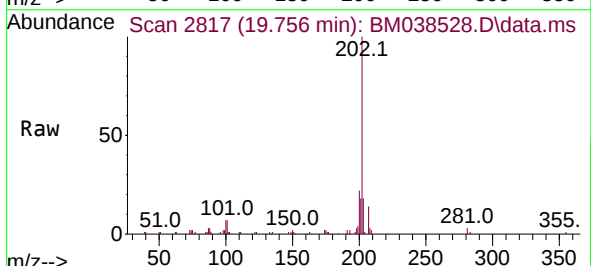
RT: 19.756 min Scan# 2817

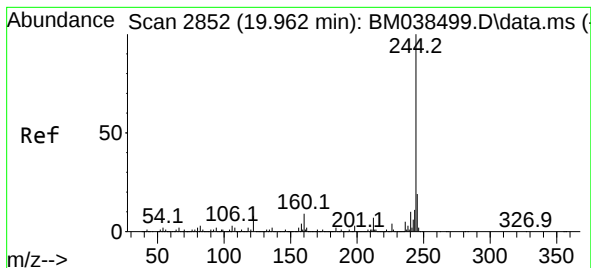
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Tgt Ion:	202	Resp:	57699
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.0	25.4
203	17.5	14.2	21.2





#79

Terphenyl-d14

Concen: 76.678 ng

RT: 19.956 min Scan# 2851

Delta R.T. -0.006 min

Lab File: BM038528.D

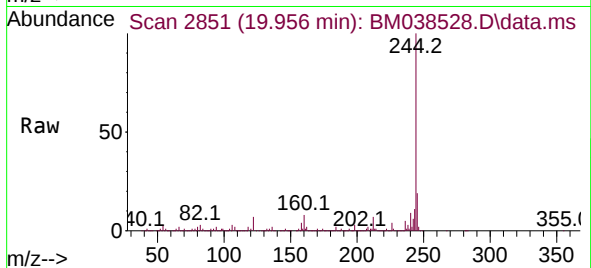
Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022



Tgt Ion:244 Resp: 1196056

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

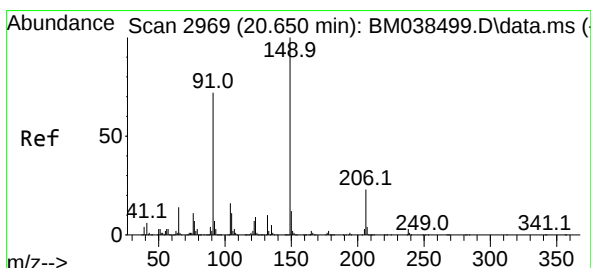
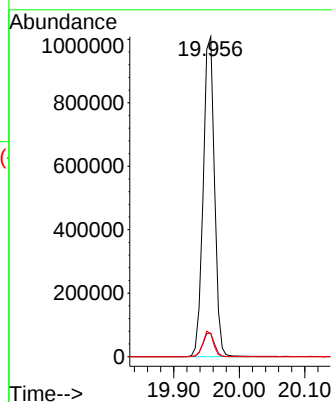
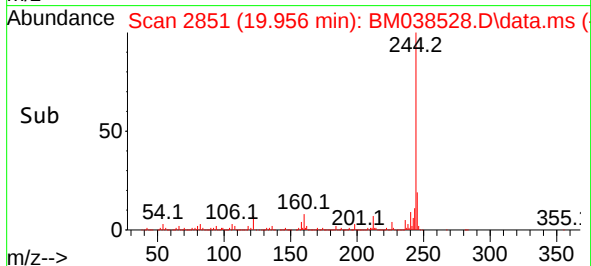
122 7.1 6.7 10.1

Manual Integrations

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Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#80

Butylbenzylphthalate

Concen: 2.547 ng

RT: 20.644 min Scan# 2968

Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

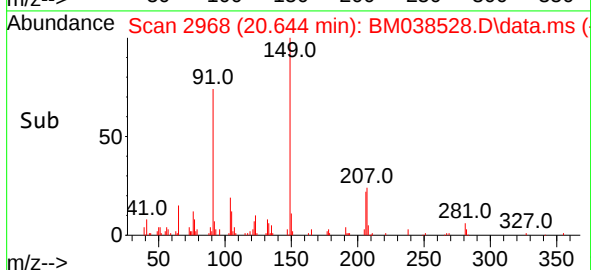
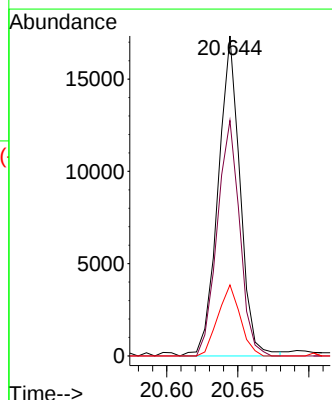
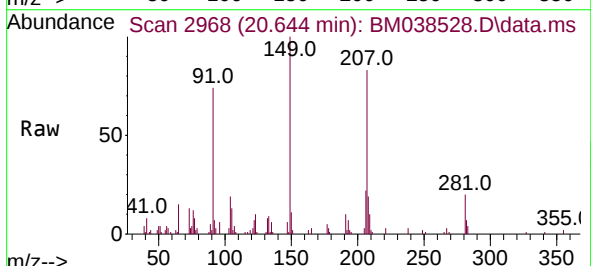
Tgt Ion:149 Resp: 18651

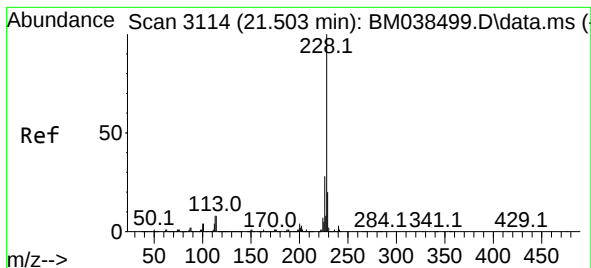
Ion Ratio Lower Upper

149 100

91 73.6 57.5 86.3

206 22.2 18.2 27.2





#81

Benzo(a)anthracene

Concen: 3.257 ng

RT: 21.497 min Scan# 3114

Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

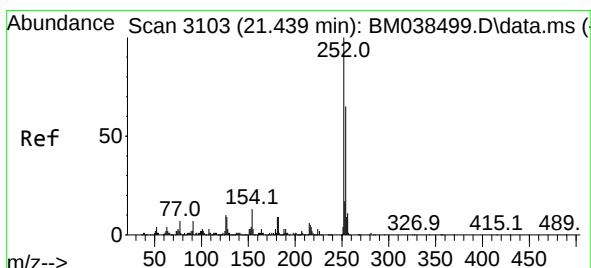
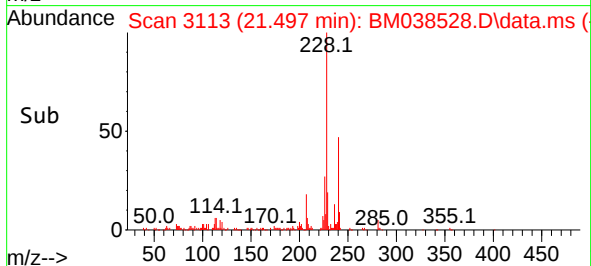
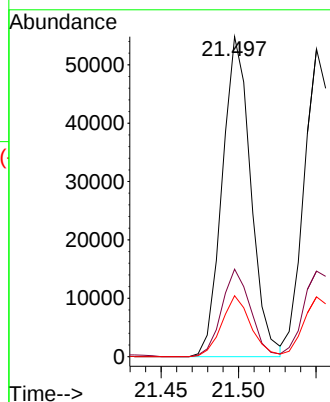
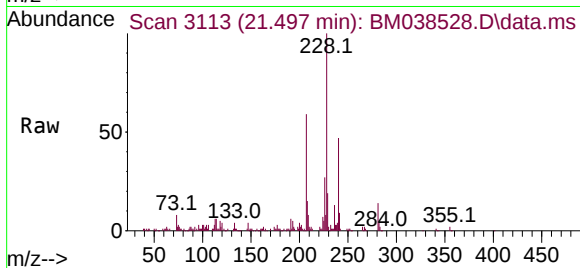
MDL-SOIL-03-QT4-2022

Tgt Ion:228 Resp: 70176
 Ion Ratio Lower Upper
 228 100
 226 27.3 22.2 33.2
 229 19.0 16.0 24.0

Manual Integrations

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Reviewed By :Christian Giraldo 01/26/2023
 Supervised By :Jagrut Upadhyay 01/26/2023



#82

3,3'-Dichlorobenzidine

Concen: 3.404 ng

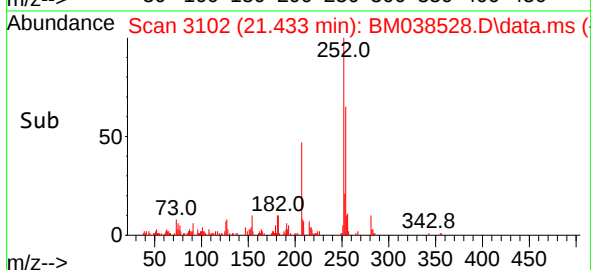
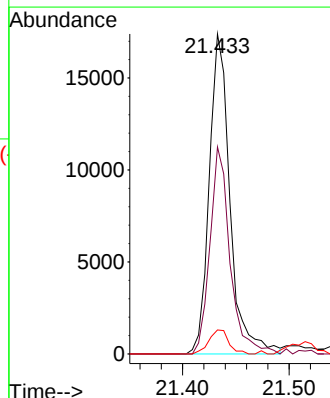
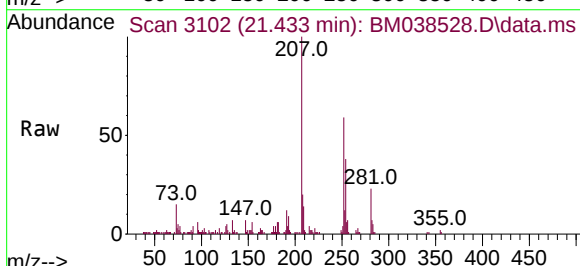
RT: 21.433 min Scan# 3102

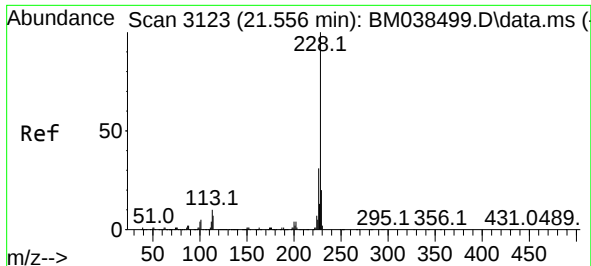
Delta R.T. -0.006 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

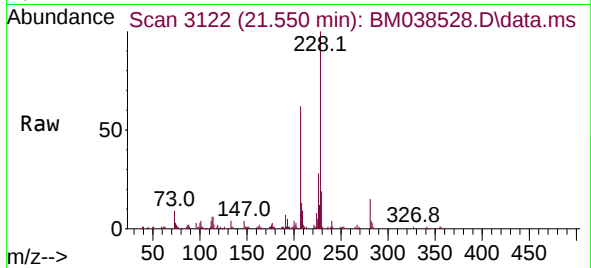
Tgt Ion:252 Resp: 23558
 Ion Ratio Lower Upper
 252 100
 254 64.7 51.9 77.9
 126 7.5 7.7 11.5





#83
Chrysene
Concen: 3.267 ng
RT: 21.550 min Scan# 3123
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

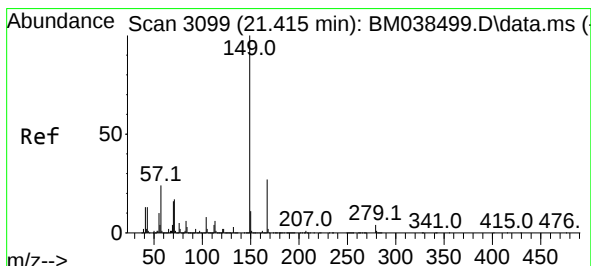
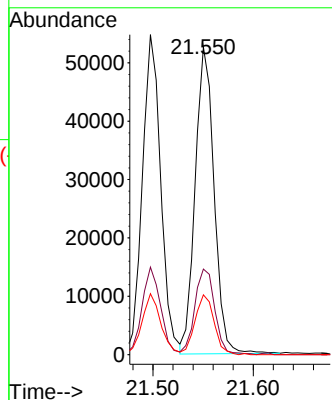
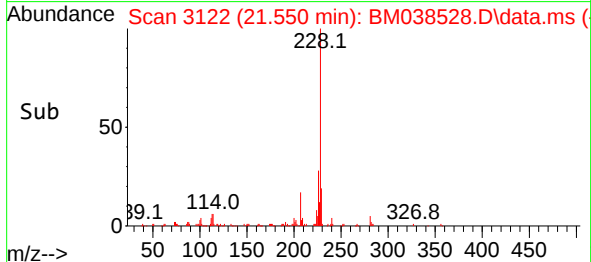
Instrument : BNA_M
ClientSampleId : MDL-SOIL-03-QT4-2022



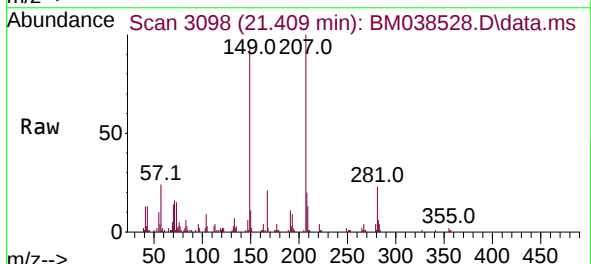
Tgt Ion:228 Resp: 68842
Ion Ratio Lower Upper
228 100
226 27.8 24.4 36.6
229 19.4 15.7 23.5

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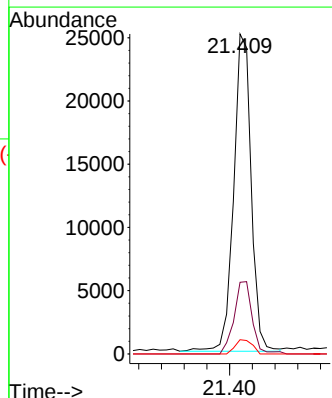
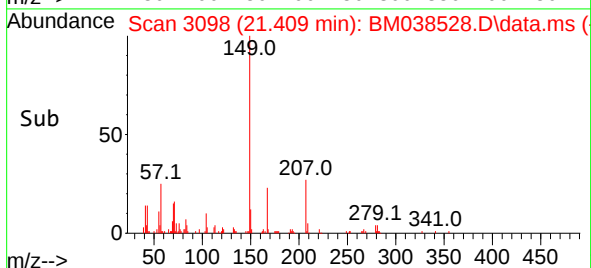
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

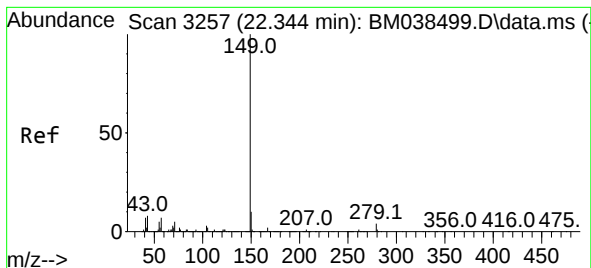


#84
Bis(2-ethylhexyl)phthalate
Concen: 2.533 ng
RT: 21.409 min Scan# 3098
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



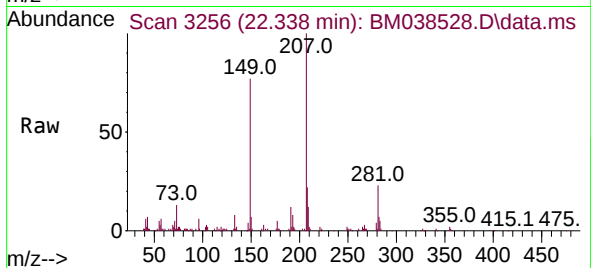
Tgt Ion:149 Resp: 26878
Ion Ratio Lower Upper
149 100
167 22.4 21.3 31.9
279 4.5 3.0 4.4#





#85
Di-n-octyl phthalate
Concen: 2.588 ng
RT: 22.338 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

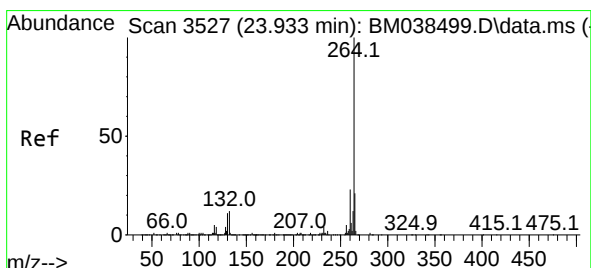
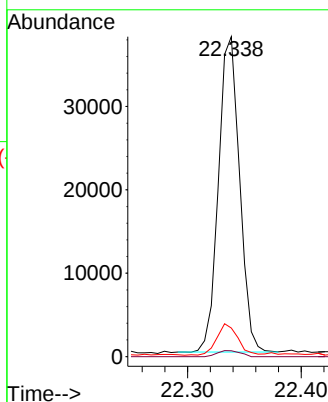
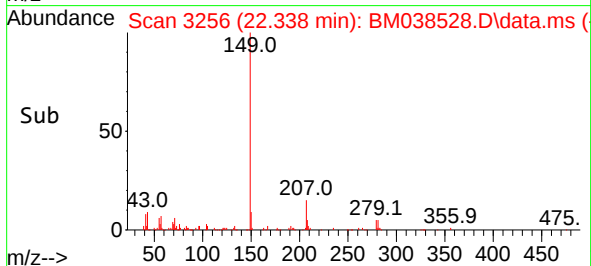
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



Tgt Ion:149 Resp: 48824
Ion Ratio Lower Upper
149 100
167 2.0 1.3 1.9
43 9.9 6.7 10.1

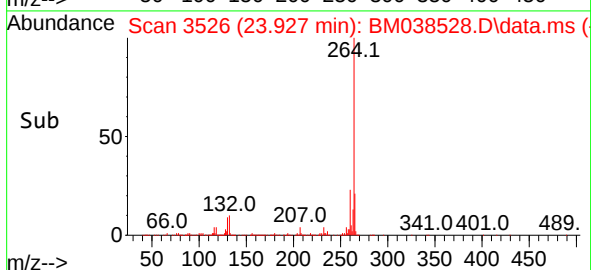
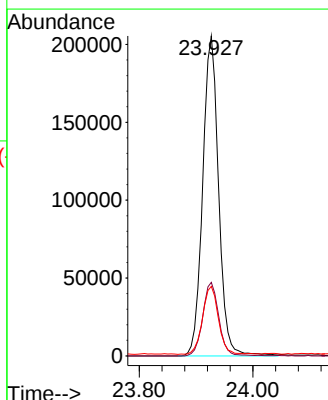
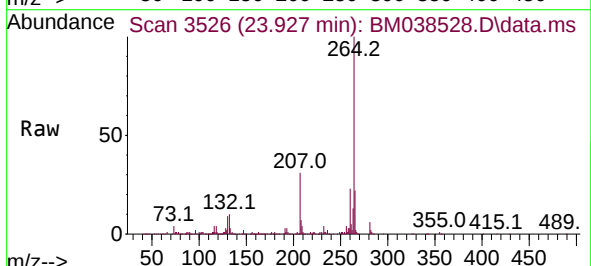
Manual Integrations
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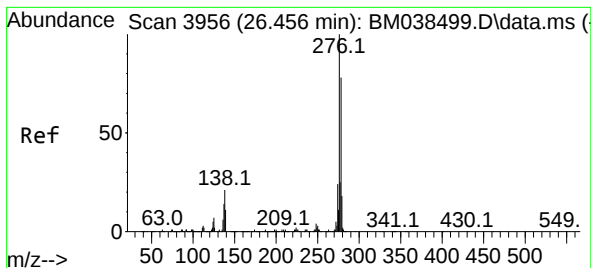
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.927 min Scan# 3526
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

Tgt Ion:264 Resp: 400394
Ion Ratio Lower Upper
264 100
260 23.0 18.5 27.7
265 21.7 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.181 ng

RT: 26.432 min Scan# 3956

Delta R.T. -0.024 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

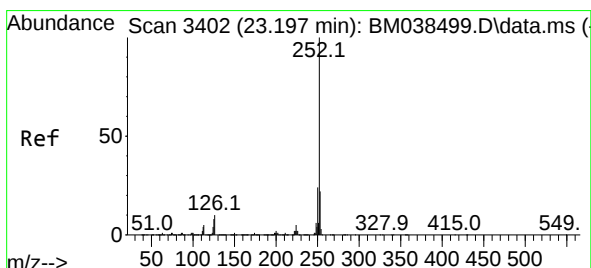
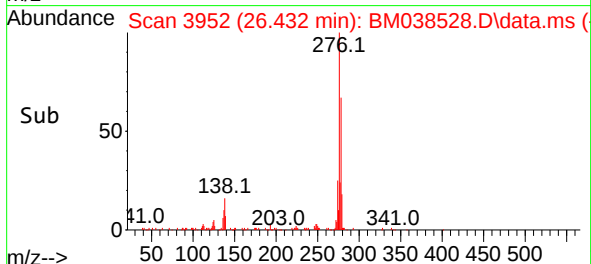
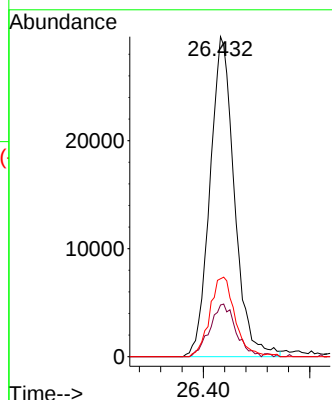
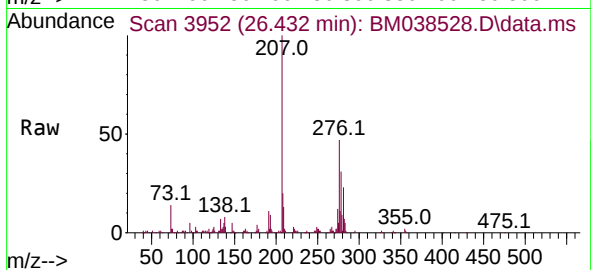
ClientSampleId :

MDL-SOIL-03-QT4-2022

Tgt Ion:	276	Resp:	94245
Ion Ratio	Lower	Upper	
276	100		
138	17.3	15.8	23.8
277	25.4	20.1	30.1

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023



#88

Benzo(b)fluoranthene

Concen: 3.176 ng m

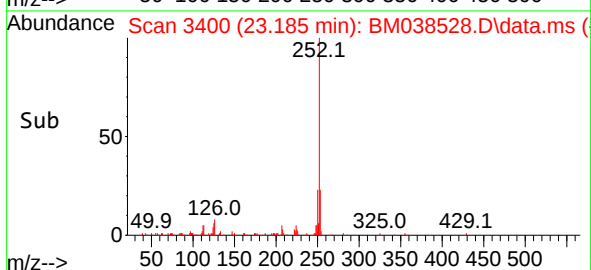
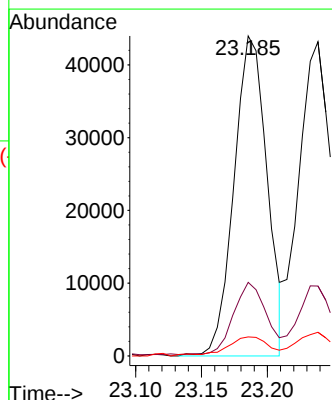
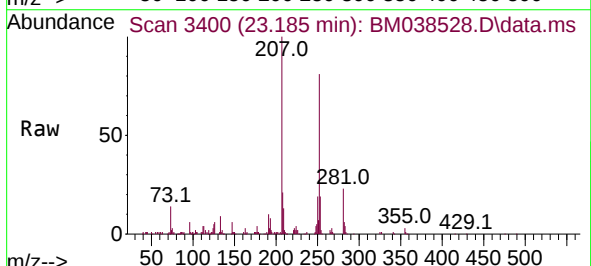
RT: 23.185 min Scan# 3400

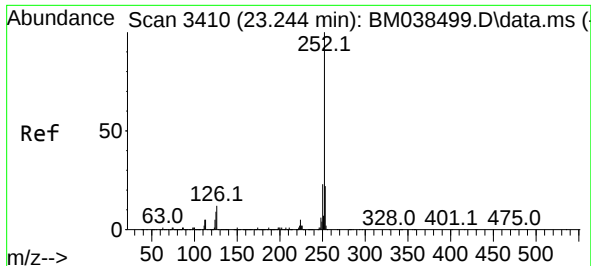
Delta R.T. -0.012 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

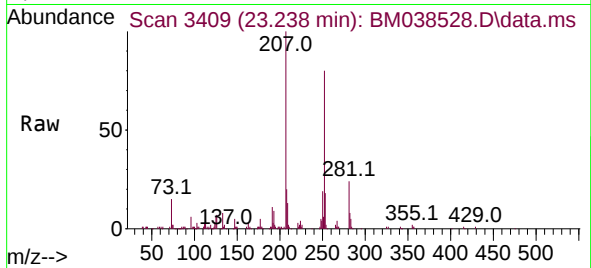
Tgt Ion:	252	Resp:	76701
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.4	26.0
125	5.9	6.4	9.6#





#89
Benzo(k)fluoranthene
Concen: 3.071 ng
RT: 23.238 min Scan# 3410
Delta R.T. -0.006 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13

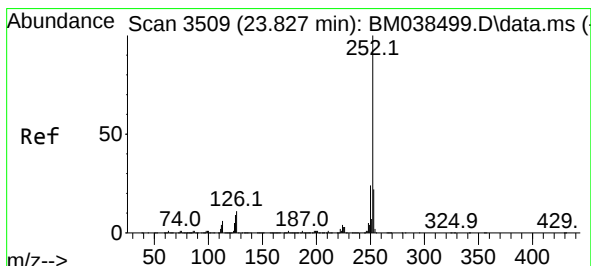
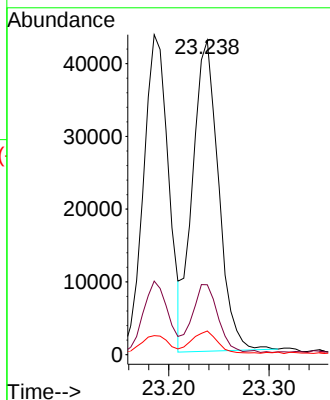
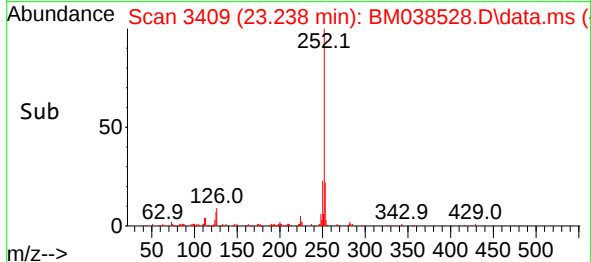
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT4-2022



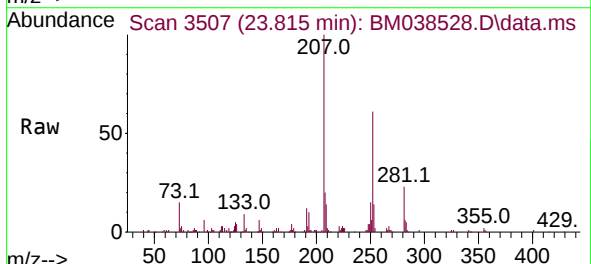
Tgt Ion:252 Resp: 76752
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.8
125 7.5 6.8 10.2

Manual Integrations
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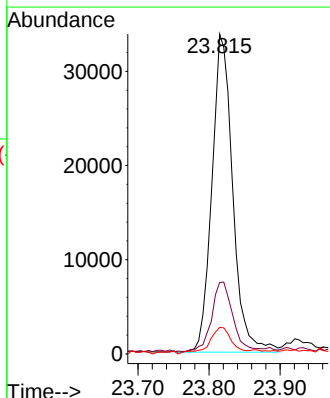
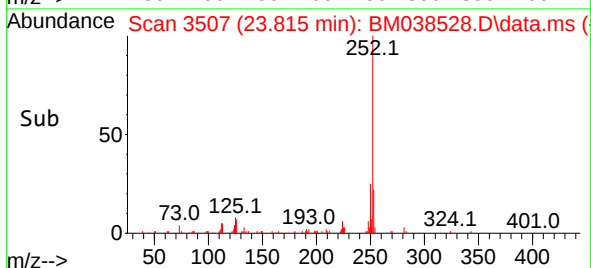
Reviewed By :Christian Giraldo 01/26/2023
Supervised By :Jagrut Upadhyay 01/26/2023

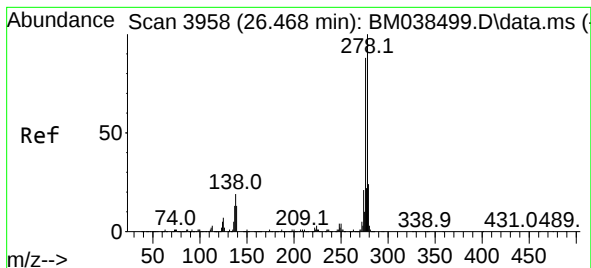


#90
Benzo(a)pyrene
Concen: 2.883 ng
RT: 23.815 min Scan# 3507
Delta R.T. -0.012 min
Lab File: BM038528.D
Acq: 25 Jan 2023 12:13



Tgt Ion:252 Resp: 69028
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 8.3 7.3 10.9





#91

Dibenzo(a,h)anthracene

Concen: 3.352 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.024 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT4-2022

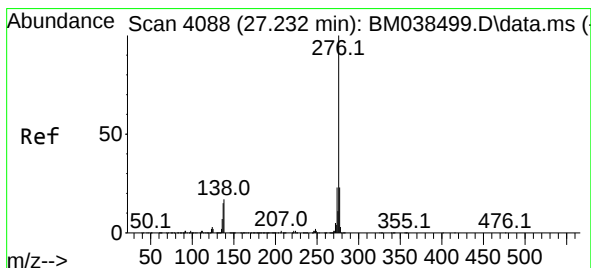
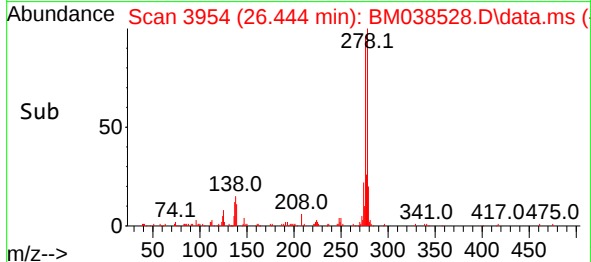
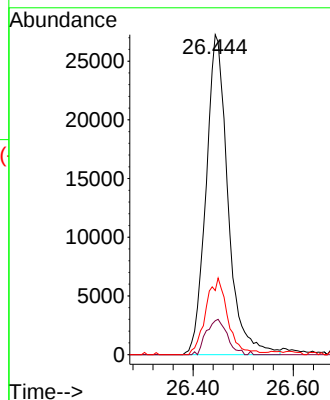
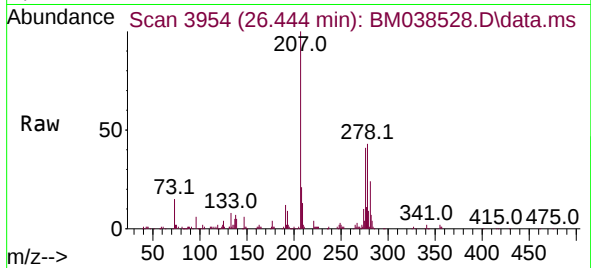
Tgt Ion:	278	Resp:	82670
Ion Ratio	Lower	Upper	
278	100		
139	10.6	10.3	15.5
279	20.0	19.3	28.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2023

Supervised By :Jagrut Upadhyay 01/26/2023



#92

Benzo(g,h,i)perylene

Concen: 3.460 ng

RT: 27.209 min Scan# 4084

Delta R.T. -0.024 min

Lab File: BM038528.D

Acq: 25 Jan 2023 12:13

Tgt Ion:	276	Resp:	87398
Ion Ratio	Lower	Upper	
276	100		
277	22.5	18.8	28.2
138	16.4	13.8	20.8

