

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061423\
 Data File : BF133755.D
 Acq On : 14 Jun 2023 17:13
 Operator : CG\JU
 Sample : 03114-02MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MARION-SOIL-0609MS

Quant Time: Jun 14 17:51:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 14 16:27:59 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/15/2023
 Supervised By :mohammad ahmed 06/16/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	146974	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	546183	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	253784	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	436723	20.000	ng	0.00
76) Chrysene-d12	14.004	240	280396	20.000	ng	0.00
86) Perylene-d12	15.468	264	328524	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	848264	100.476	ng	0.02
7) Phenol-d6	6.469	99	956157	87.009	ng	0.00
23) Nitrobenzene-d5	7.398	82	742463	74.040	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	287513	89.500	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	1287268	72.104	ng	0.00
79) Terphenyl-d14	12.951	244	1120112	61.813	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.751	88	110231	29.699	ng	# 80
3) Pyridine	3.463	79	276619	25.570	ng	98
4) n-Nitrosodimethylamine	3.393	42	201791	33.745	ng	100
6) Aniline	6.498	93	261929	18.924	ng	97
8) 2-Chlorophenol	6.616	128	342592	38.507	ng	98
9) Benzaldehyde	6.387	77	133072	18.252	ng	98
10) Phenol	6.481	94	361355	31.491	ng	99
11) bis(2-Chloroethyl)ether	6.569	93	332524	39.034	ng	96
12) 1,3-Dichlorobenzene	6.775	146	362871	38.173	ng	98
13) 1,4-Dichlorobenzene	6.851	146	362732	37.754	ng	97
14) 1,2-Dichlorobenzene	7.004	146	347794	40.061	ng	96
15) Benzyl Alcohol	6.975	79	318118	37.064	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.110	45	591653	40.971	ng	99
17) 2-Methylphenol	7.086	107	279222	35.408	ng	98
18) Hexachloroethane	7.345	117	135726	41.264	ng	97
19) n-Nitroso-di-n-propyla...	7.251	70	244497	34.969	ng	100
20) 3+4-Methylphenols	7.239	107	321186	31.309	ng	91
22) Acetophenone	7.245	105	464236	37.059	ng	98
24) Nitrobenzene	7.416	77	384280	38.057	ng	97
25) Isophorone	7.657	82	664412	36.090	ng	99
26) 2-Nitrophenol	7.734	139	178746	39.444	ng	97
27) 2,4-Dimethylphenol	7.769	122	292398	37.436	ng	99
28) bis(2-Chloroethoxy)met...	7.869	93	400226	37.614	ng	99
29) 2,4-Dichlorophenol	7.975	162	285145	37.249	ng	98
30) 1,2,4-Trichlorobenzene	8.057	180	309325	38.730	ng	98
31) Naphthalene	8.139	128	964194	36.234	ng	99
32) Benzoic acid	7.869	122	110028	22.336	ng	93
33) 4-Chloroaniline	8.186	127	69551	6.113	ng	96
34) Hexachlorobutadiene	8.251	225	190058	36.346	ng	99
35) Caprolactam	8.557	113	80662m	31.314	ng	
36) 4-Chloro-3-methylphenol	8.675	107	307460	34.845	ng	98
37) 2-Methylnaphthalene	8.828	142	654149	35.381	ng	98
38) 1-Methylnaphthalene	8.928	142	605040	35.562	ng	99
40) 1,2,4,5-Tetrachloroben...	8.998	216	301325	39.056	ng	98
41) Hexachlorocyclopentadiene	8.980	237	278441	80.985	ng	95
43) 2,4,6-Trichlorophenol	9.110	196	201170	39.019	ng	98

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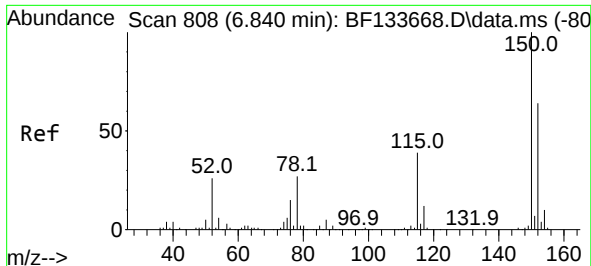
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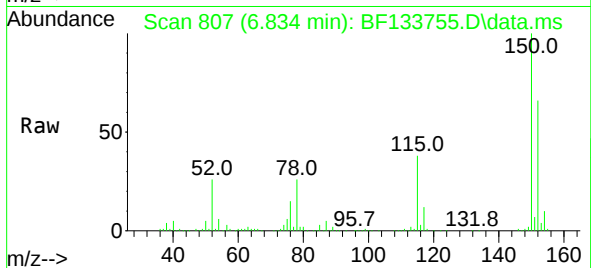
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.151	196	214667	35.790	ng	98
46) 1,1'-Biphenyl	9.292	154	789762	38.585	ng	99
47) 2-Chloronaphthalene	9.322	162	568866	38.746	ng	100
48) 2-Nitroaniline	9.416	65	197646	36.808	ng	98
49) Acenaphthylene	9.733	152	952028	37.255	ng	99
50) Dimethylphthalate	9.598	163	702534	37.087	ng	99
51) 2,6-Dinitrotoluene	9.657	165	152031	38.883	ng	# 79
52) Acenaphthene	9.910	154	575633	38.484	ng	99
53) 3-Nitroaniline	9.827	138	97048	20.396	ng	94
54) 2,4-Dinitrophenol	9.933	184	80563	44.868	ng	97
55) Dibenzofuran	10.080	168	838201	36.725	ng	99
56) 4-Nitrophenol	9.992	139	211942	65.999	ng	91
57) 2,4-Dinitrotoluene	10.063	165	191699	38.550	ng	98
58) Fluorene	10.422	166	642301	36.799	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.198	232	171154	38.114	ng	99
60) Diethylphthalate	10.298	149	695438	36.072	ng	99
61) 4-Chlorophenyl-phenyle...	10.416	204	312528	36.270	ng	96
62) 4-Nitroaniline	10.445	138	147045	31.519	ng	100
63) Azobenzene	10.574	77	651409	35.691	ng	98
65) 4,6-Dinitro-2-methylph...	10.469	198	65741	31.502	ng	81
66) n-Nitrosodiphenylamine	10.533	169	570104	38.863	ng	99
67) 4-Bromophenyl-phenylether	10.904	248	186386	38.238	ng	97
68) Hexachlorobenzene	10.969	284	200493	39.114	ng	98
69) Atrazine	11.063	200	179445	42.159	ng	96
70) Pentachlorophenol	11.163	266	187066	60.946	ng	98
71) Phenanthrene	11.386	178	813861	36.731	ng	100
72) Anthracene	11.439	178	848850	36.742	ng	99
73) Carbazole	11.592	167	769088	35.743	ng	99
74) Di-n-butylphthalate	11.921	149	979990	35.526	ng	99
75) Fluoranthene	12.574	202	780555	33.174	ng	99
77) Benzidine	12.698	184	181616	19.302	ng	98
78) Pyrene	12.804	202	781454	29.918	ng	99
80) Butylbenzylphthalate	13.421	149	350781	31.811	ng	97
81) Benzo(a)anthracene	13.998	228	734898	37.891	ng	99
82) 3,3'-Dichlorobenzidine	13.957	252	173277	26.873	ng	99
83) Chrysene	14.033	228	704667	38.413	ng	98
84) Bis(2-ethylhexyl)phtha...	13.980	149	496667	36.581	ng	98
85) Di-n-octyl phthalate	14.598	149	916220	47.487	ng	99
87) Indeno(1,2,3-cd)pyrene	16.933	276	781421	34.574	ng	99
88) Benzo(b)fluoranthene	15.045	252	824429	41.311	ng	99
89) Benzo(k)fluoranthene	15.074	252	752415	38.705	ng	98
90) Benzo(a)pyrene	15.409	252	710800	38.378	ng	98
91) Dibenzo(a,h)anthracene	16.951	278	657050	35.115	ng	99
92) Benzo(g,h,i)perylene	17.374	276	575892	31.042	ng	97

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

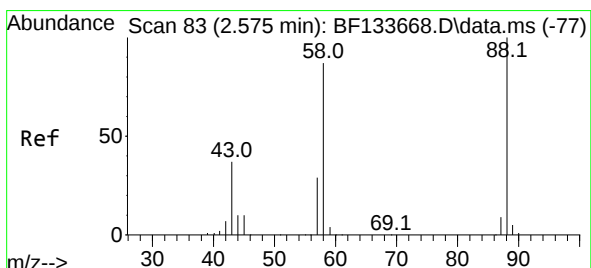
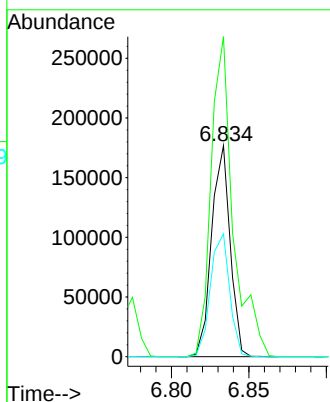
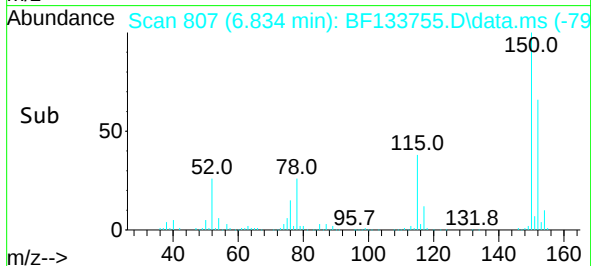
Instrument :
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ClientSampleId :
MARION-SOIL-0609MS



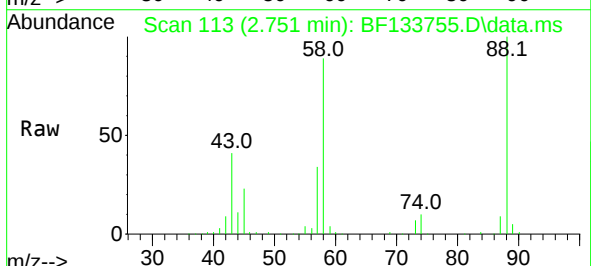
Tgt Ion:152 Resp: 146974
Ion Ratio Lower Upper
152 100
150 151.6 124.3 186.5
115 58.2 48.5 72.7

Manual Integrations
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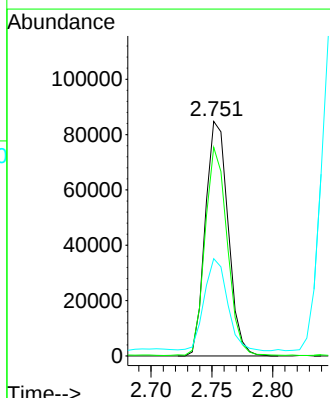
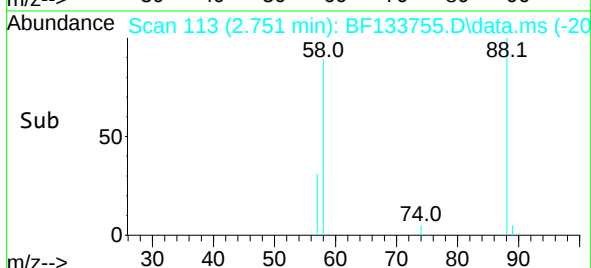
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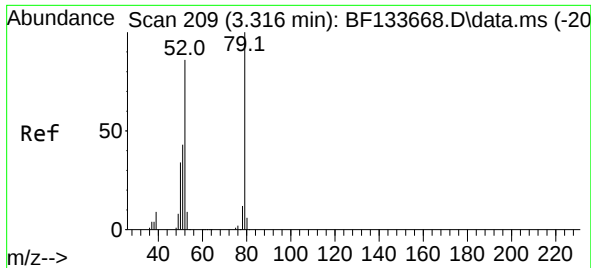


#2
1,4-Dioxane
Concen: 29.699 ng
RT: 2.751 min Scan# 113
Delta R.T. 0.200 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



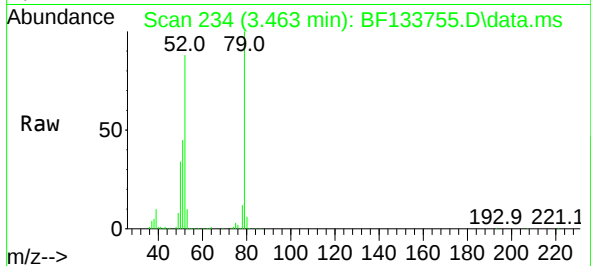
Tgt Ion: 88 Resp: 110231
Ion Ratio Lower Upper
88 100
58 86.5 67.8 101.6
43 0.0 29.8 44.6#





#3
Pyridine
Concen: 25.570 ng
RT: 3.463 min Scan# 211
Delta R.T. 0.159 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

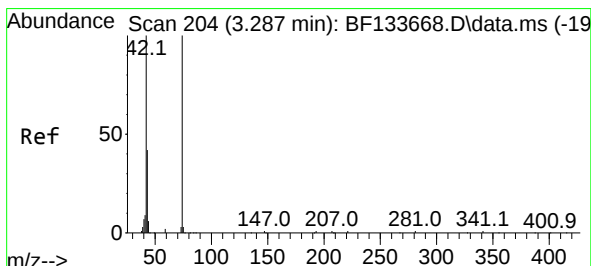
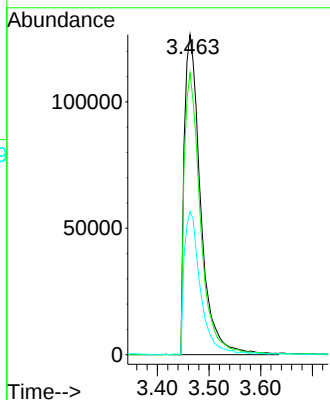
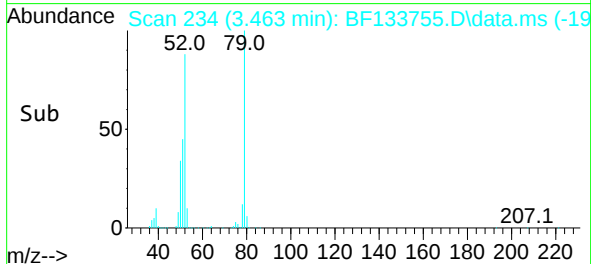
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BNA_F
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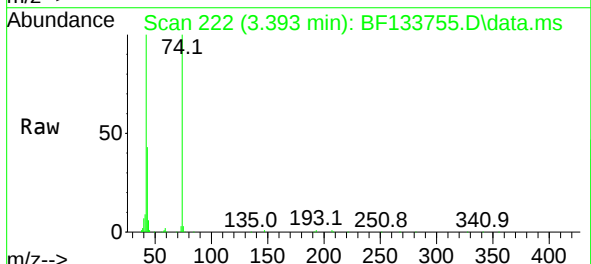
Tgt Ion: 79 Resp: 276619
Ion Ratio Lower Upper
79 100
52 88.1 68.6 102.8
51 44.7 34.8 52.2

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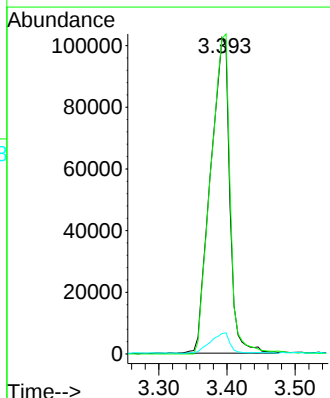
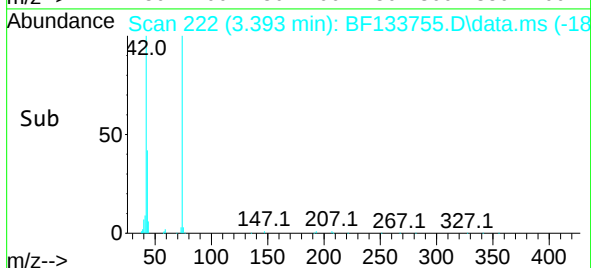
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Supervised By :mohammad ahmed 06/16/2023

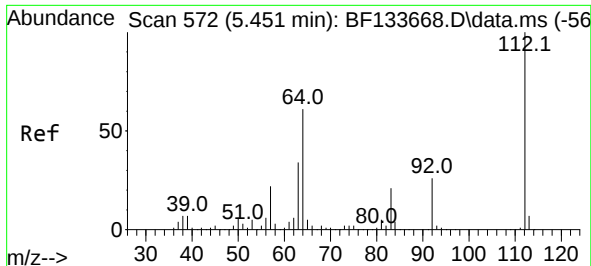


#4
n-Nitrosodimethylamine
Concen: 33.745 ng
RT: 3.393 min Scan# 222
Delta R.T. 0.135 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



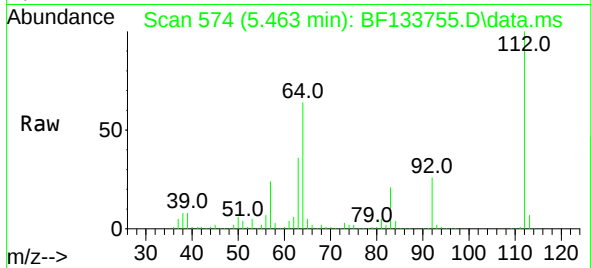
Tgt Ion: 42 Resp: 201791
Ion Ratio Lower Upper
42 100
74 99.7 79.8 119.8
44 6.5 4.7 7.1





#5
2-Fluorophenol
Concen: 100.476 ng
RT: 5.463 min Scan# 51
Delta R.T. 0.018 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

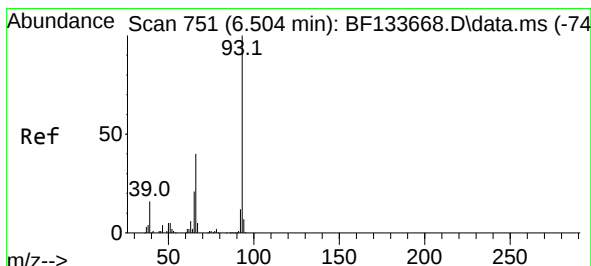
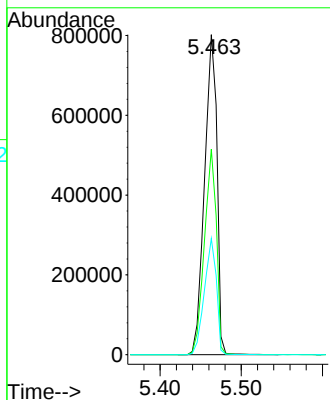
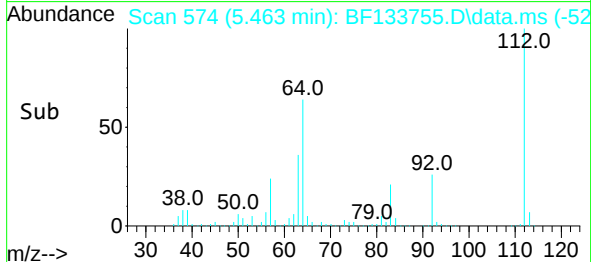
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Tgt Ion:112 Resp: 848264
Ion Ratio Lower Upper
112 100
64 64.2 49.0 73.4
63 36.3 26.8 40.2

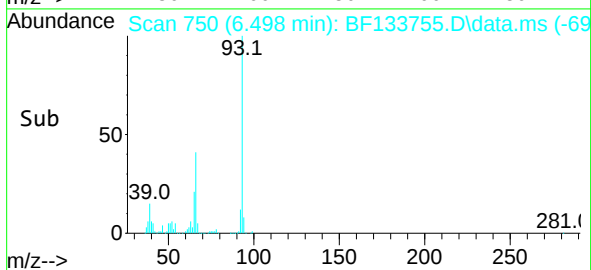
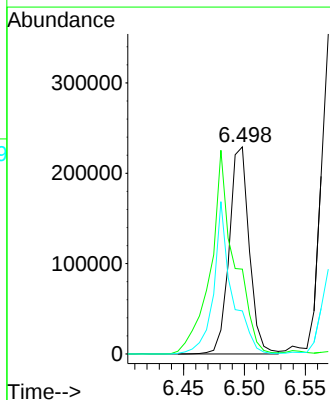
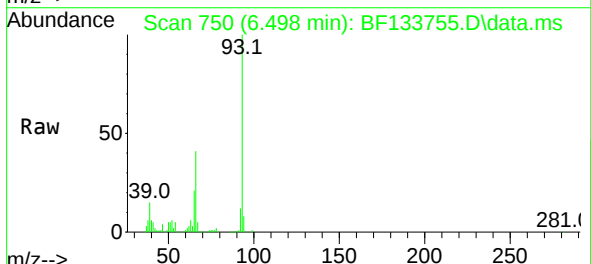
Manual Integrations
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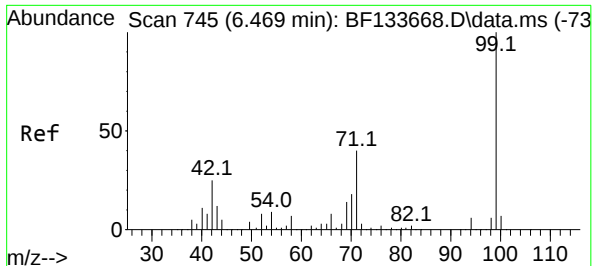
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#6
Aniline
Concen: 18.924 ng
RT: 6.498 min Scan# 750
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

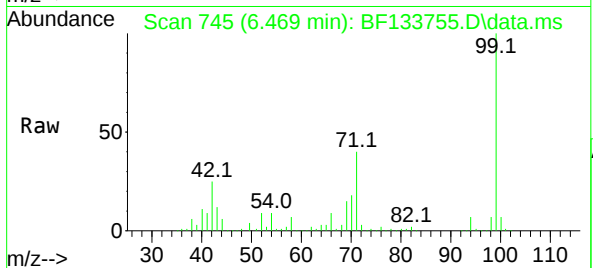
Tgt Ion: 93 Resp: 261929
Ion Ratio Lower Upper
93 100
66 41.0 34.4 51.6
65 20.8 17.5 26.3





#7
Phenol-d6
Concen: 87.009 ng
RT: 6.469 min Scan# 745
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

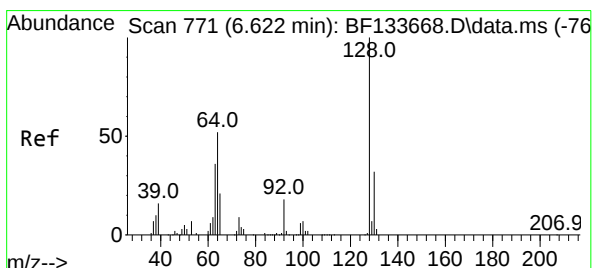
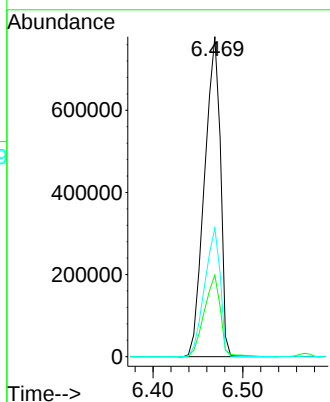
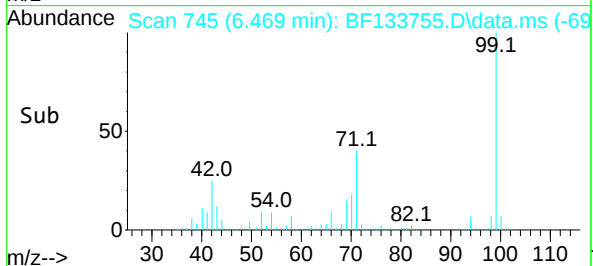
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Tgt Ion: 99 Resp: 95615
Ion Ratio Lower Upper
99 100
42 25.5 19.9 29.9
71 40.2 32.2 48.4

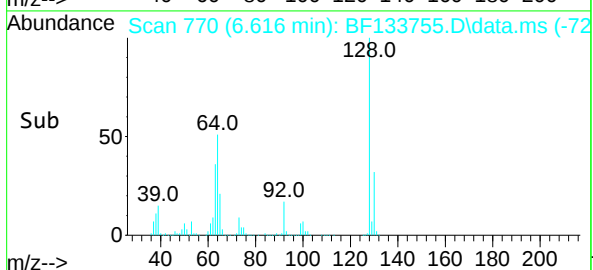
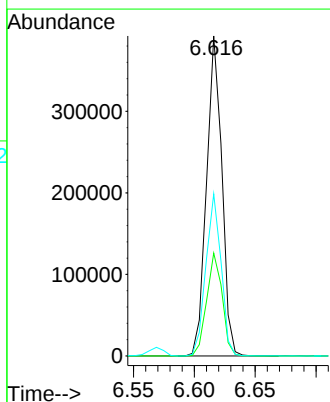
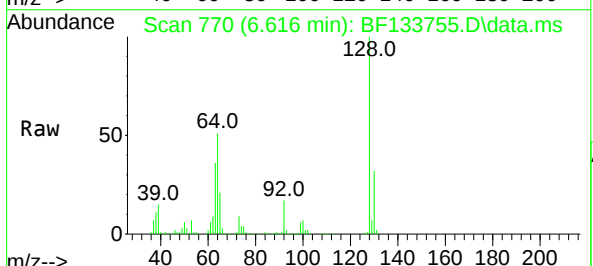
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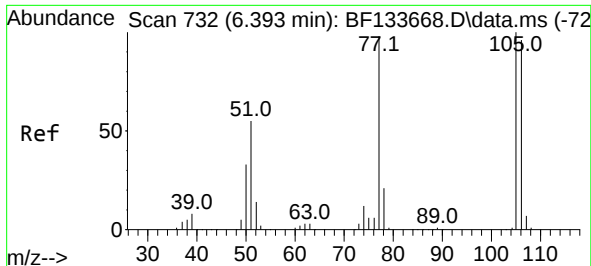
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#8
2-Chlorophenol
Concen: 38.507 ng
RT: 6.616 min Scan# 770
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

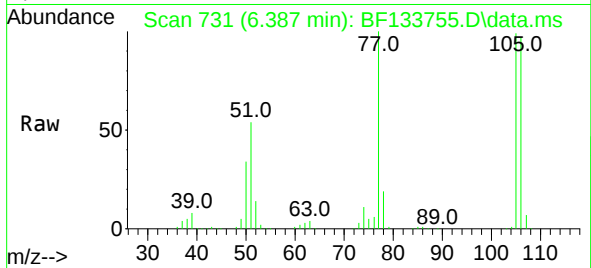
Tgt Ion:128 Resp: 342592
Ion Ratio Lower Upper
128 100
130 32.1 12.3 52.3
64 50.6 33.1 73.1





#9
Benzaldehyde
Concen: 18.252 ng
RT: 6.387 min Scan# 710
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

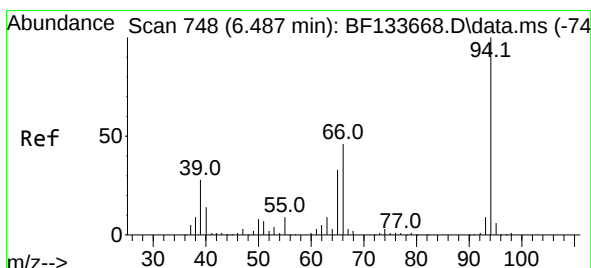
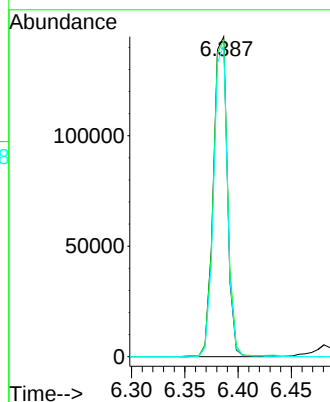
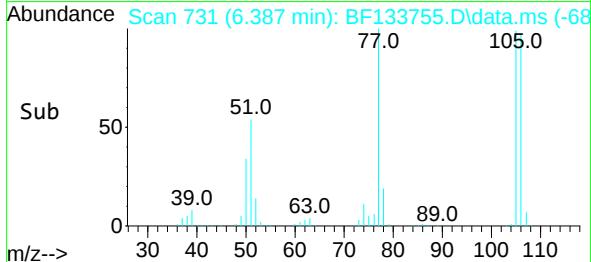
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Tgt Ion: 77 Resp: 133072
Ion Ratio Lower Upper
77 100
105 98.9 82.0 122.0
106 97.4 77.6 117.6

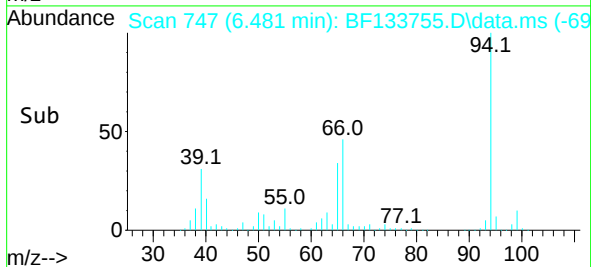
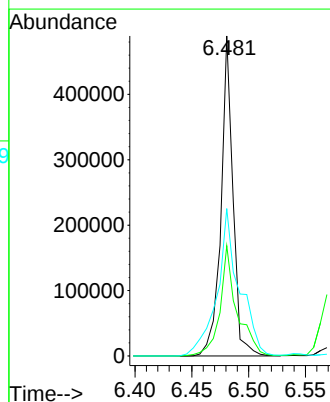
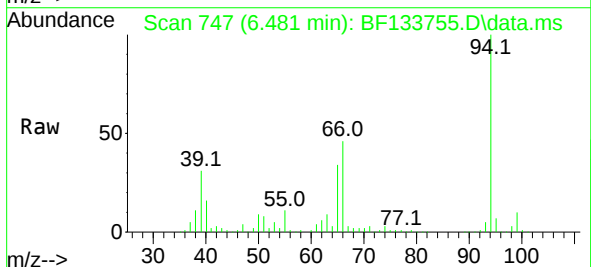
Manual Integrations
APPROVED

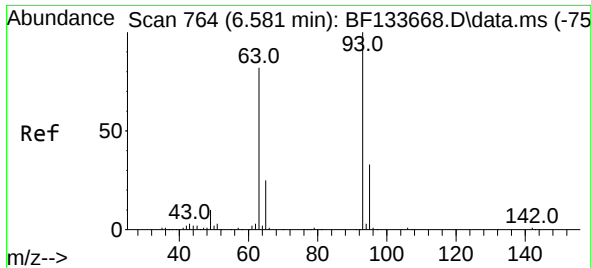
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#10
Phenol
Concen: 31.491 ng
RT: 6.481 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

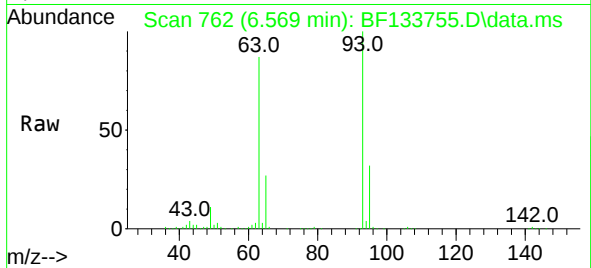
Tgt Ion: 94 Resp: 361355
Ion Ratio Lower Upper
94 100
65 34.5 13.2 53.2
66 46.1 26.1 66.1





#11
bis(2-Chloroethyl)ether
Concen: 39.034 ng
RT: 6.569 min Scan# 762
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

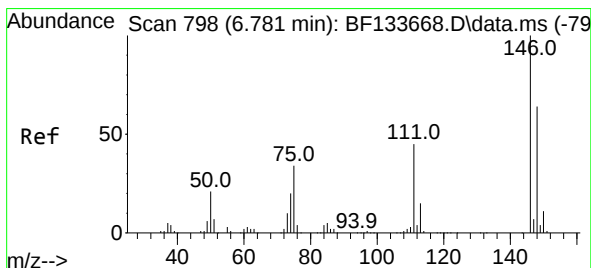
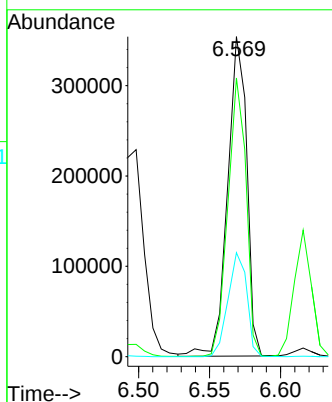
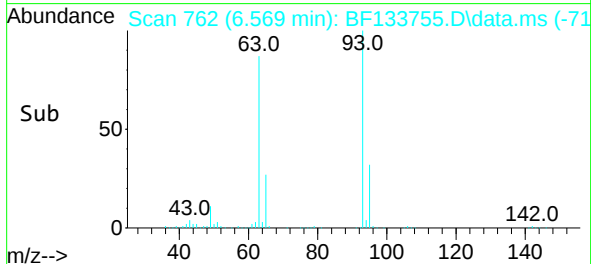
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



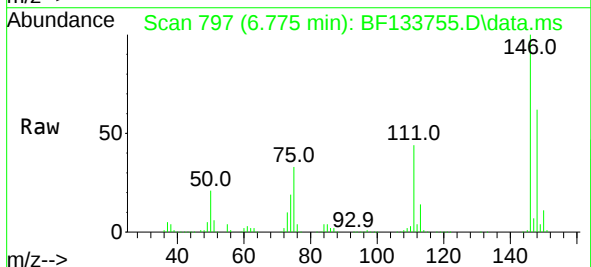
Tgt Ion: 93 Resp: 332524
Ion Ratio Lower Upper
93 100
63 87.1 62.1 102.1
95 32.5 13.0 53.0

Manual Integrations
APPROVED

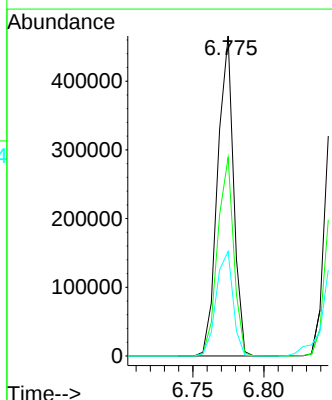
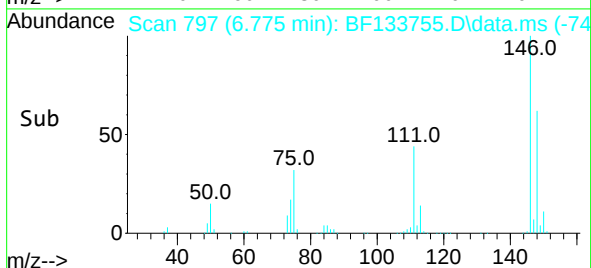
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

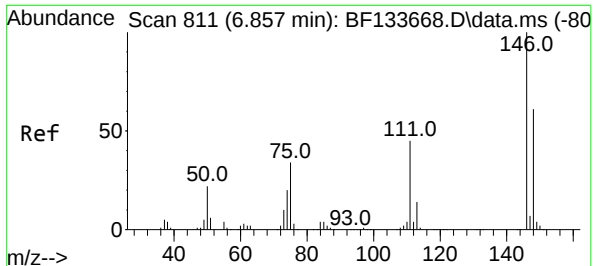


#12
1,3-Dichlorobenzene
Concen: 38.173 ng
RT: 6.775 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



Tgt Ion:146 Resp: 362871
Ion Ratio Lower Upper
146 100
148 62.1 50.9 76.3
75 32.7 27.1 40.7





#13

1,4-Dichlorobenzene

Concen: 37.754 ng

RT: 6.851 min Scan# 811

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

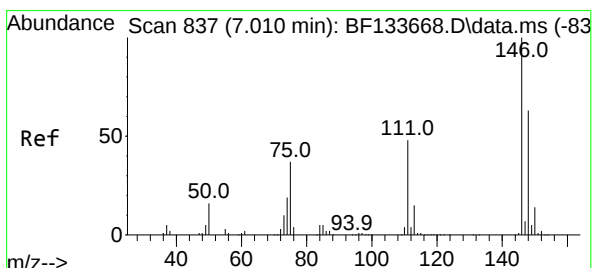
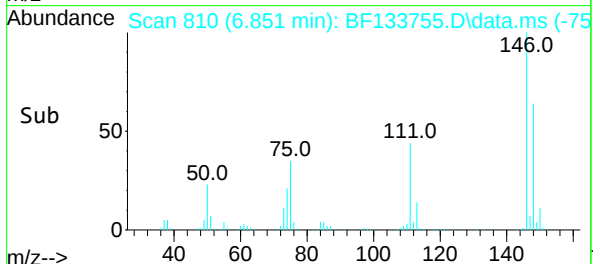
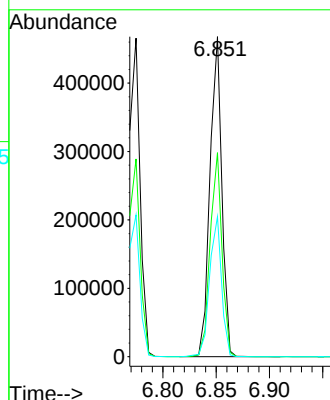
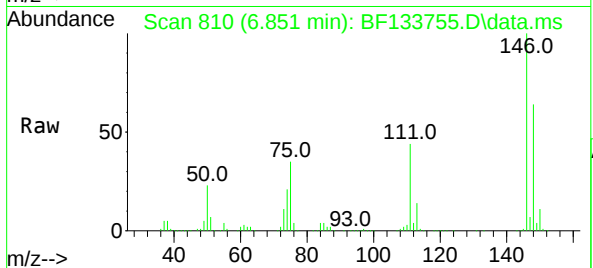
MARION-SOIL-0609MS

Tgt Ion:146 Resp: 362732
 Ion Ratio Lower Upper
 146 100
 148 63.7 48.9 73.3
 111 43.8 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023
 Supervised By :mohammad ahmed 06/16/2023



#14

1,2-Dichlorobenzene

Concen: 40.061 ng

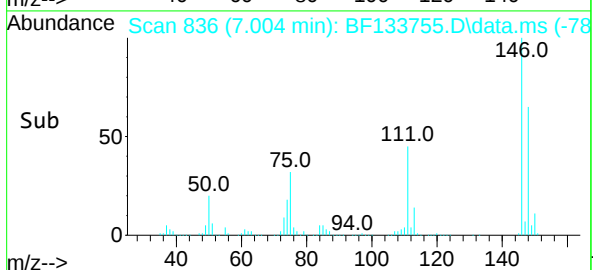
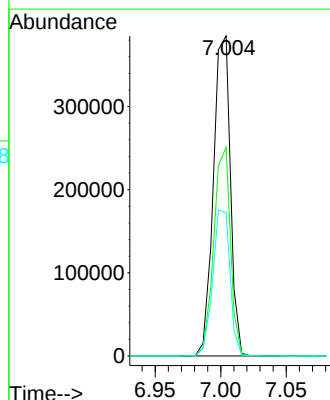
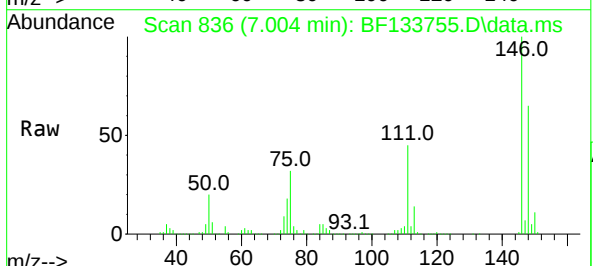
RT: 7.004 min Scan# 836

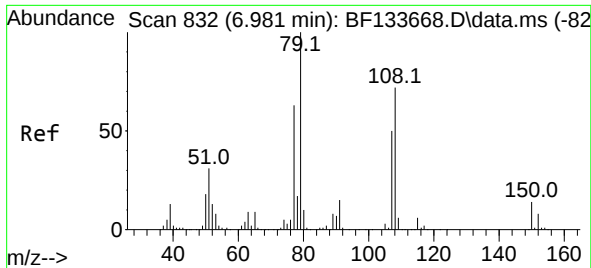
Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

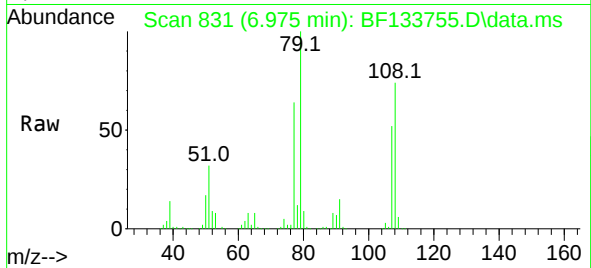
Tgt Ion:146 Resp: 347794
 Ion Ratio Lower Upper
 146 100
 148 65.2 50.6 75.8
 111 44.7 38.7 58.1





#15
Benzyl Alcohol
Concen: 37.064 ng
RT: 6.975 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

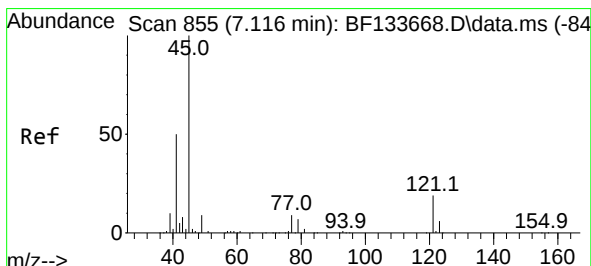
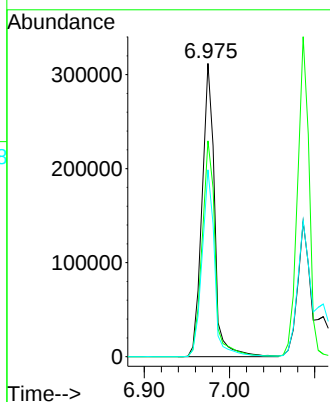
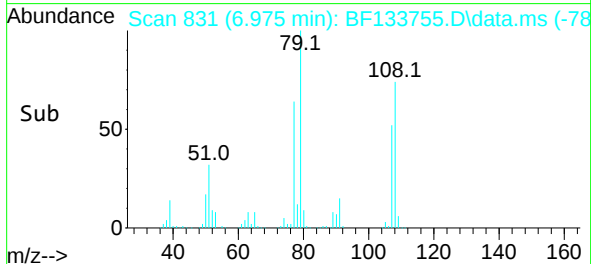
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion: 79 Resp: 318118
Ion Ratio Lower Upper
79 100
108 73.6 57.9 86.9
77 63.7 50.4 75.6

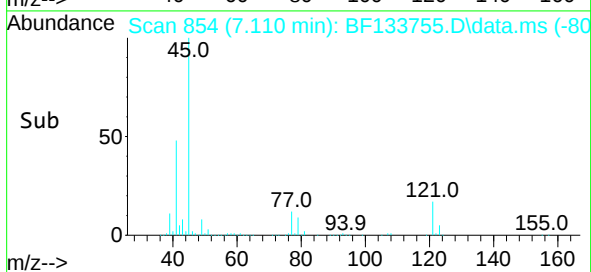
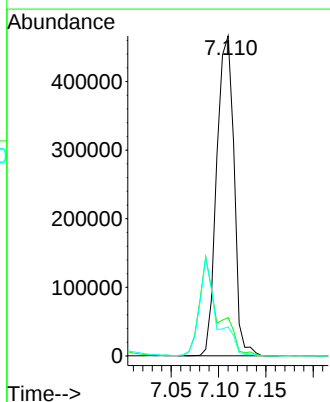
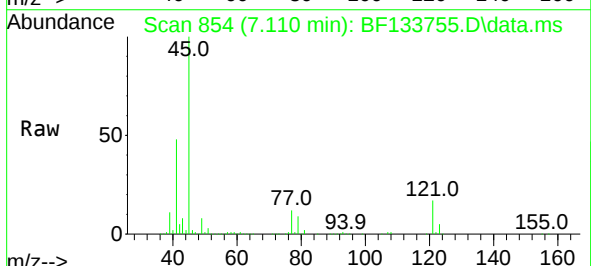
Manual Integrations
APPROVED

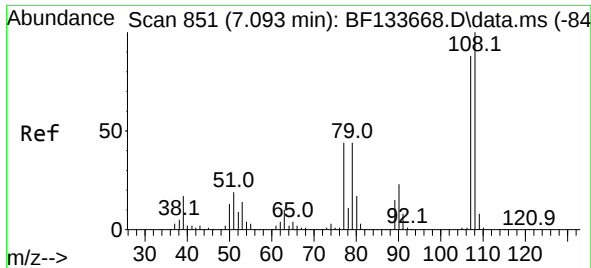
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.971 ng
RT: 7.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

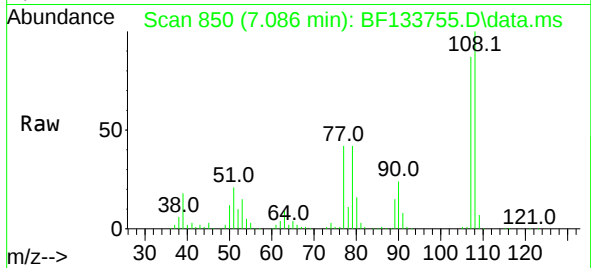
Tgt Ion: 45 Resp: 591653
Ion Ratio Lower Upper
45 100
77 12.0 0.0 32.3
79 9.1 0.0 29.4





#17
2-Methylphenol
Concen: 35.408 ng
RT: 7.086 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

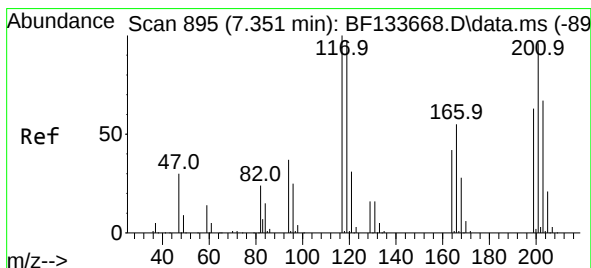
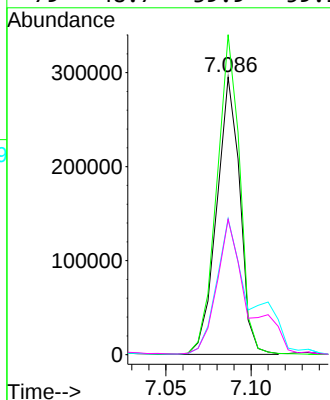
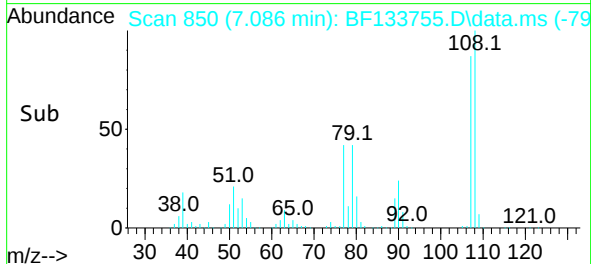
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



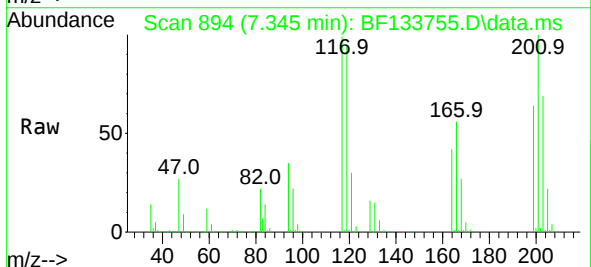
Tgt Ion:107 Resp: 27922
Ion Ratio Lower Upper
107 100
108 115.4 90.9 136.3
77 49.0 39.8 59.6
79 48.7 39.9 59.9

Manual Integrations
APPROVED

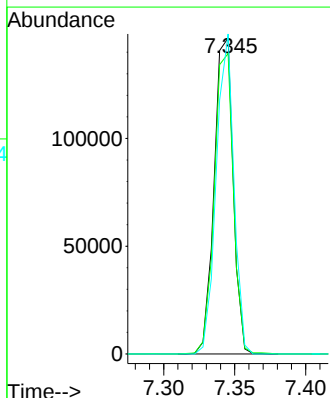
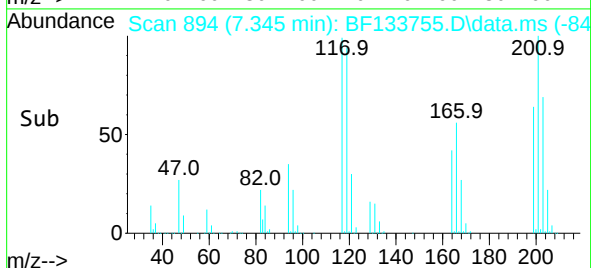
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

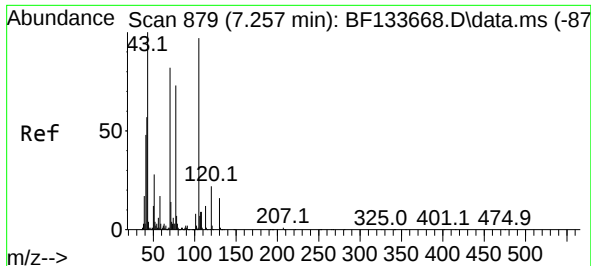


#18
Hexachloroethane
Concen: 41.264 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



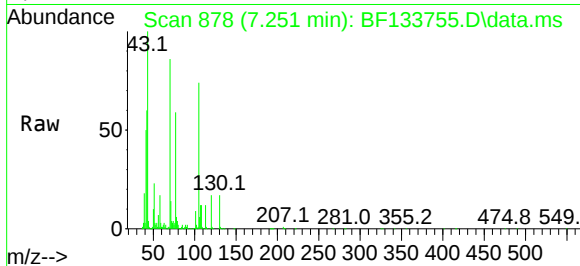
Tgt Ion:117 Resp: 135726
Ion Ratio Lower Upper
117 100
119 95.1 77.3 115.9
201 101.3 76.8 115.2





#19
n-Nitroso-di-n-propylamine
Concen: 34.969 ng
RT: 7.251 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

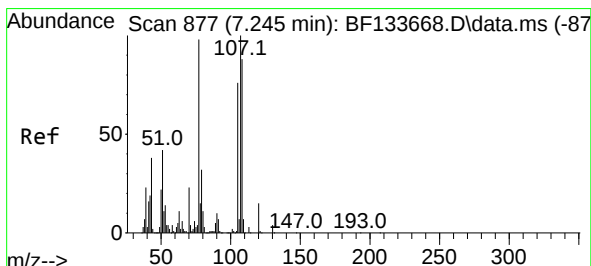
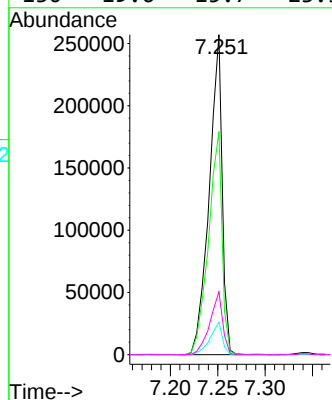
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion: 70 Resp: 24449
Ion Ratio Lower Upper
70 100
42 69.7 55.8 83.8
101 10.1 8.1 12.1
130 19.6 15.7 23.5

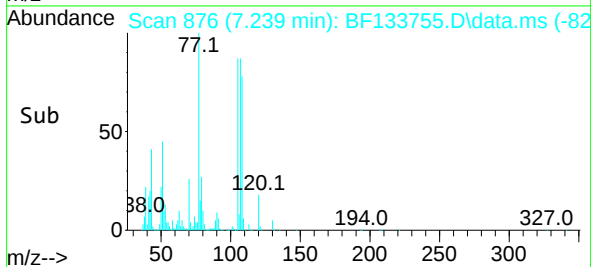
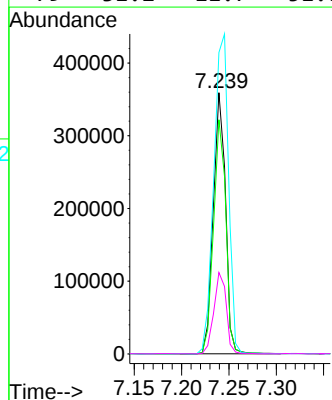
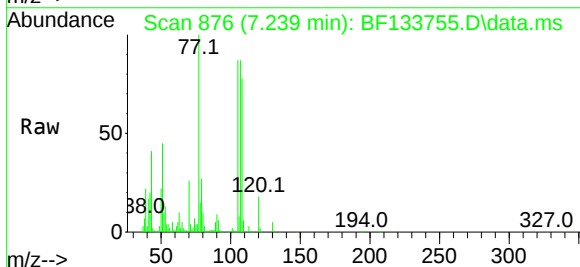
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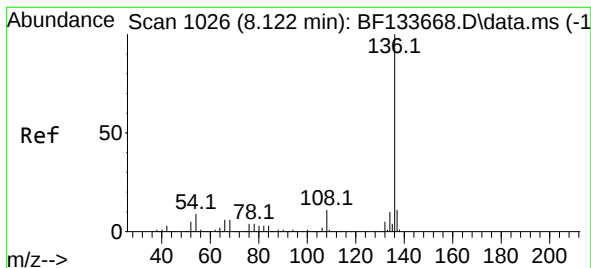
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#20
3+4-Methylphenols
Concen: 31.309 ng
RT: 7.239 min Scan# 876
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Tgt Ion:107 Resp: 321186
Ion Ratio Lower Upper
107 100
108 89.7 67.9 107.9
77 115.4 77.7 117.7
79 31.2 11.7 51.7





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.116 min Scan# 1025

Delta R.T. -0.000 min

Lab File: BF133755.D

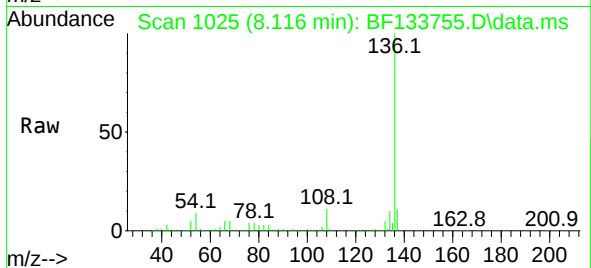
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion:136 Resp: 54618

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 9.0 7.4 11.0

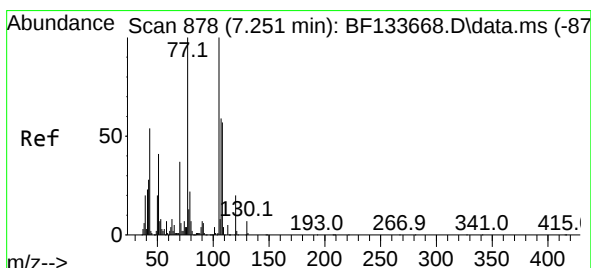
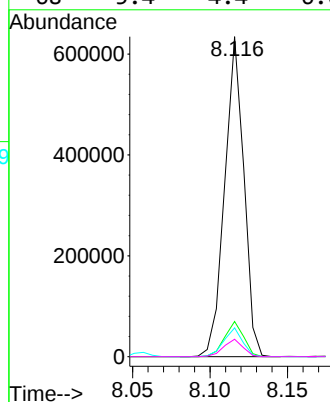
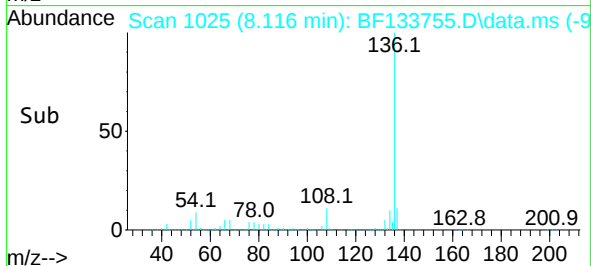
68 5.4 4.4 6.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#22

Acetophenone

Concen: 37.059 ng

RT: 7.245 min Scan# 877

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Tgt Ion:105 Resp: 464236

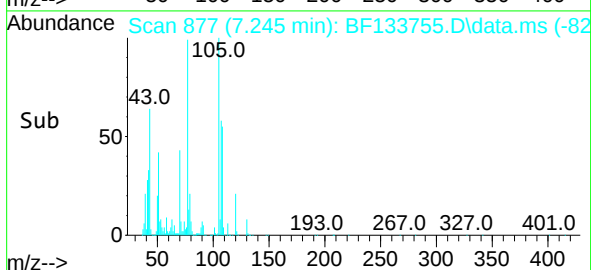
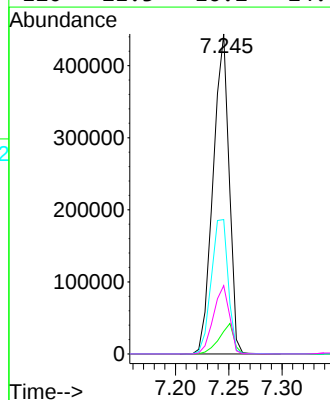
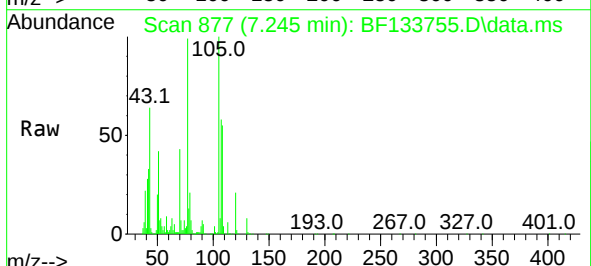
Ion Ratio Lower Upper

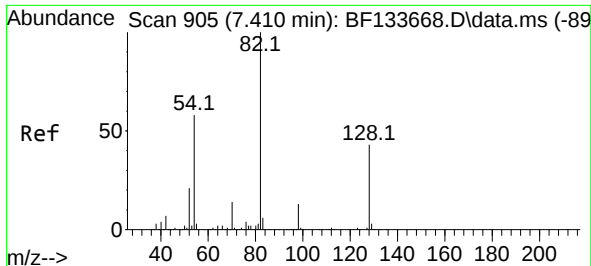
105 100

71 7.1 4.8 7.2

51 42.0 33.0 49.4

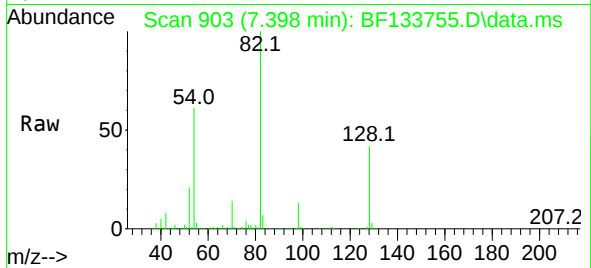
120 21.3 16.2 24.4





#23
Nitrobenzene-d5
Concen: 74.040 ng
RT: 7.398 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

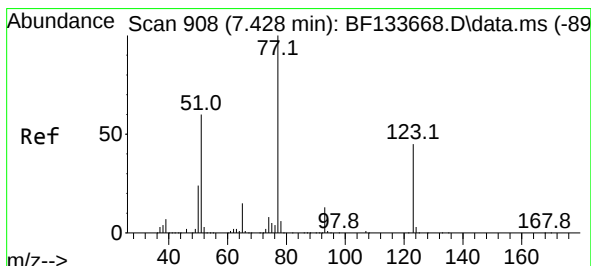
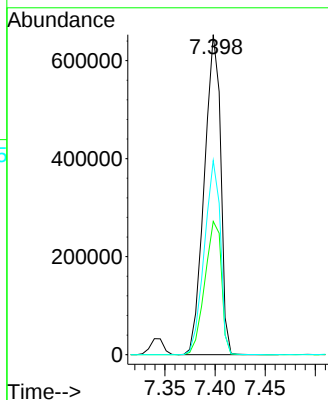
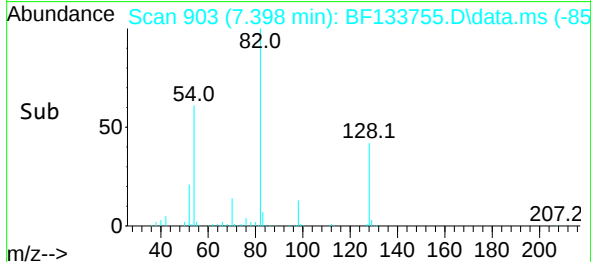
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion: 82 Resp: 742463
Ion Ratio Lower Upper
82 100
128 41.6 34.2 51.2
54 60.7 46.5 69.7

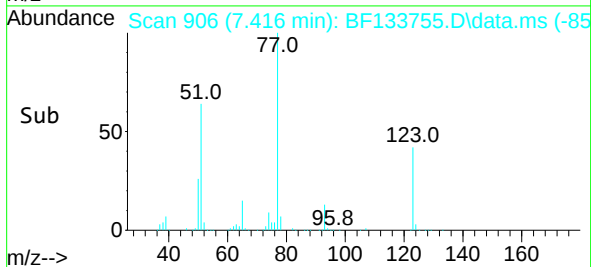
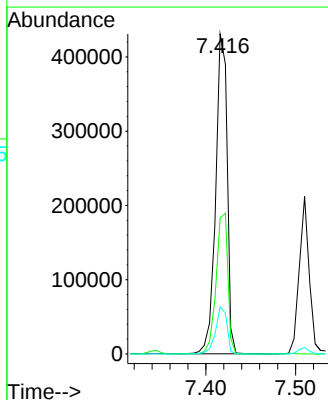
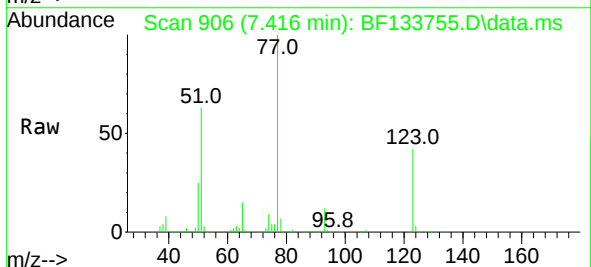
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APPROVED

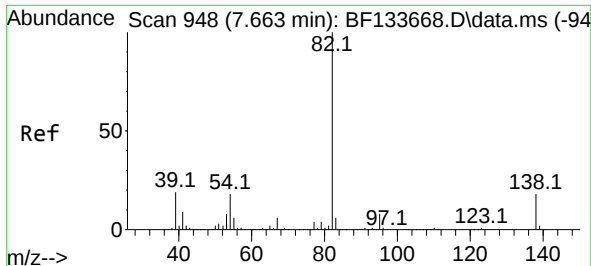
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#24
Nitrobenzene
Concen: 38.057 ng
RT: 7.416 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

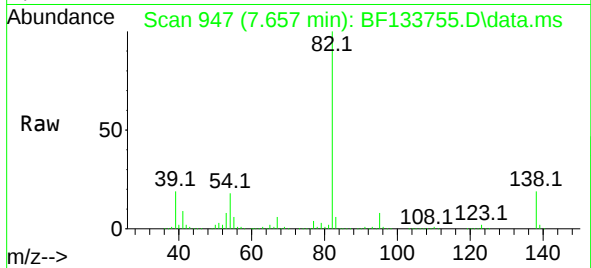
Tgt Ion: 77 Resp: 384280
Ion Ratio Lower Upper
77 100
123 42.5 35.8 53.8
65 14.7 11.6 17.4





#25
Isophorone
Concen: 36.090 ng
RT: 7.657 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

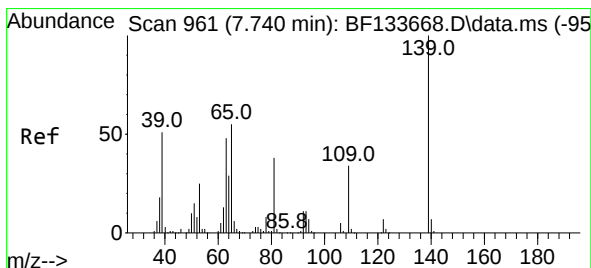
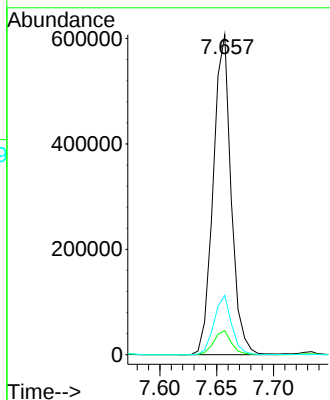
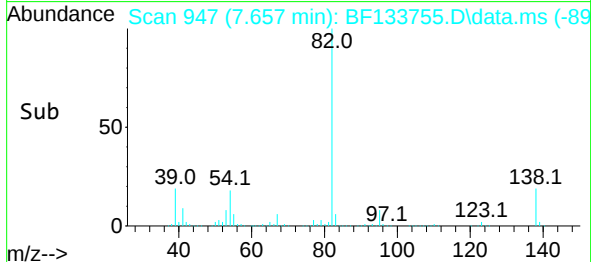
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion: 82 Resp: 664412
Ion Ratio Lower Upper
82 100
95 7.5 6.0 9.0
138 18.5 14.2 21.2

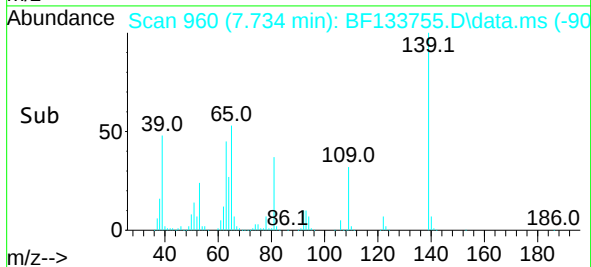
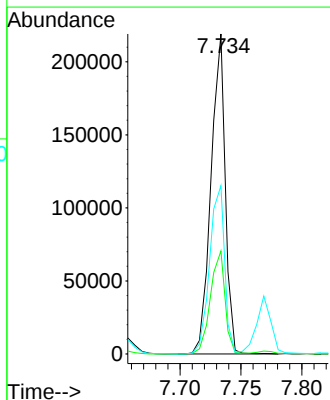
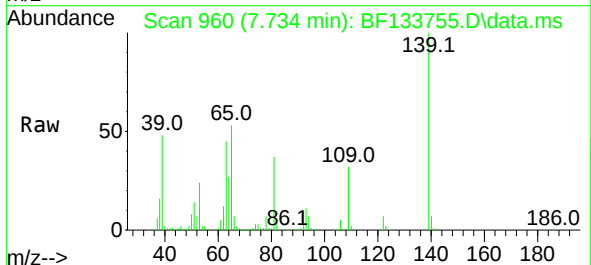
Manual Integrations
APPROVED

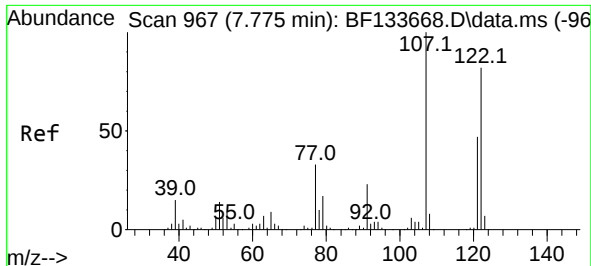
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#26
2-Nitrophenol
Concen: 39.444 ng
RT: 7.734 min Scan# 960
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

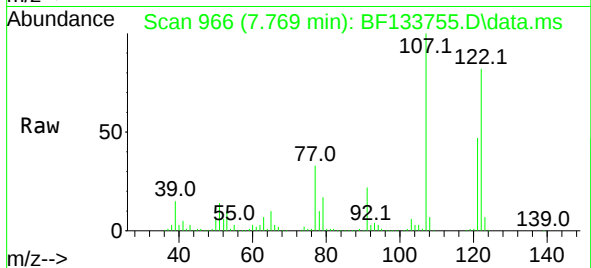
Tgt Ion:139 Resp: 178746
Ion Ratio Lower Upper
139 100
109 32.2 27.0 40.6
65 52.6 44.2 66.4





#27
2,4-Dimethylphenol
Concen: 37.436 ng
RT: 7.769 min Scan# 90
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

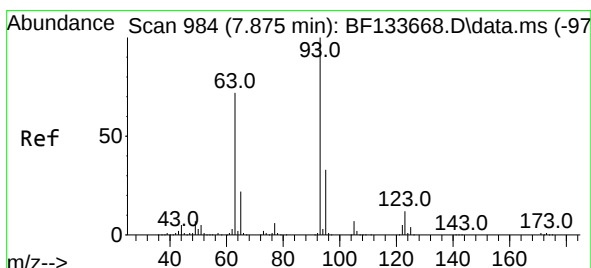
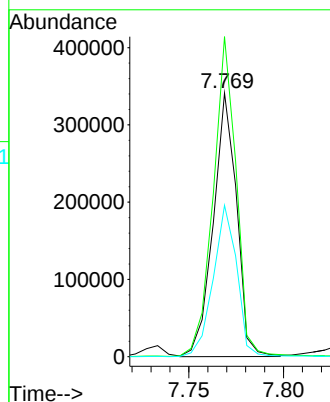
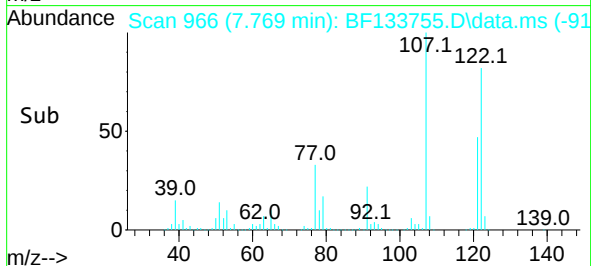
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:122 Resp: 292398
Ion Ratio Lower Upper
122 100
107 121.3 97.8 146.6
121 57.4 46.1 69.1

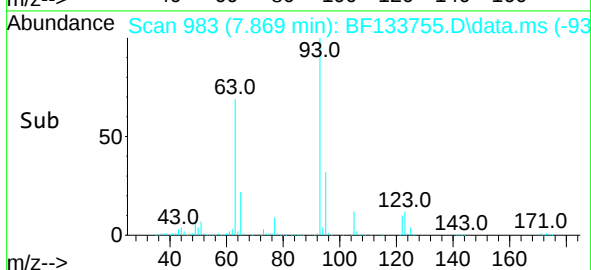
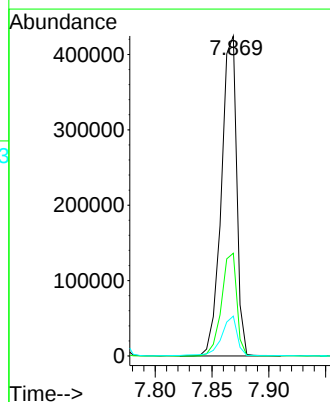
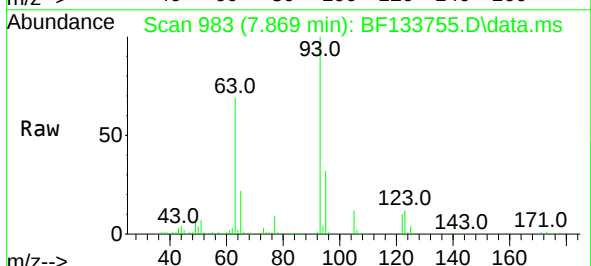
Manual Integrations
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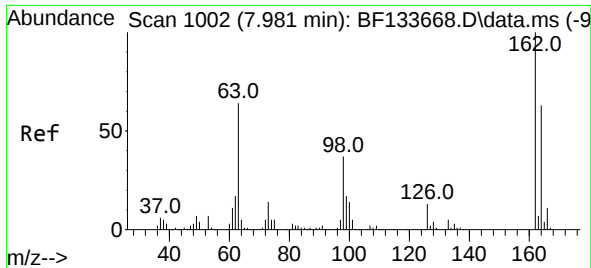
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#28
bis(2-Chloroethoxy)methane
Concen: 37.614 ng
RT: 7.869 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Tgt Ion: 93 Resp: 400226
Ion Ratio Lower Upper
93 100
95 32.1 26.4 39.6
123 12.4 9.9 14.9





#29

2,4-Dichlorophenol

Concen: 37.249 ng

RT: 7.975 min Scan# 1001

Delta R.T. -0.000 min

Lab File: BF133755.D

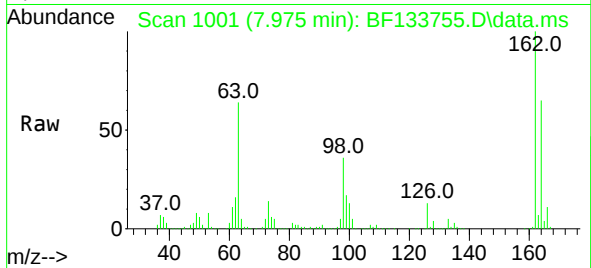
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion:162 Resp: 28514

Ion Ratio Lower Upper

162 100

164 65.0 43.4 83.4

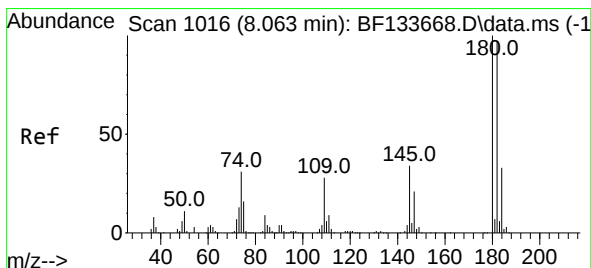
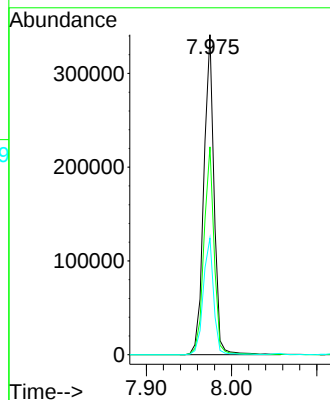
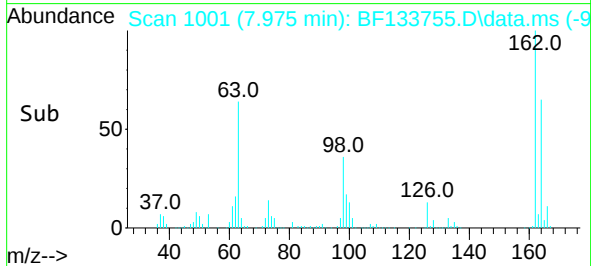
98 36.5 17.4 57.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#30

1,2,4-Trichlorobenzene

Concen: 38.730 ng

RT: 8.057 min Scan# 1015

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

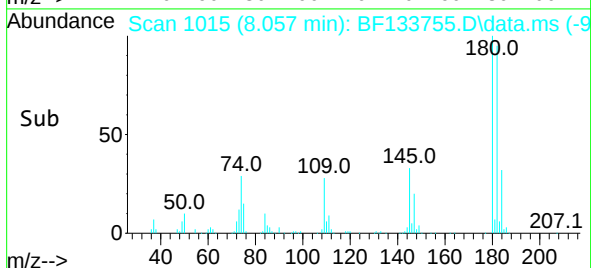
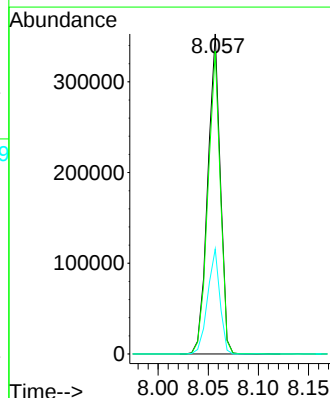
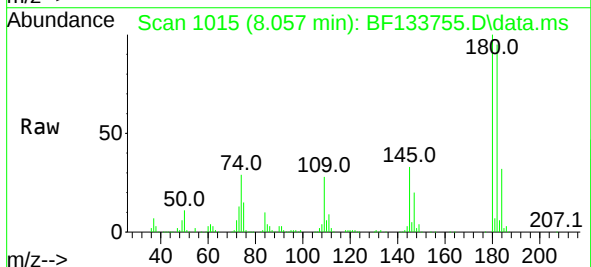
Tgt Ion:180 Resp: 309325

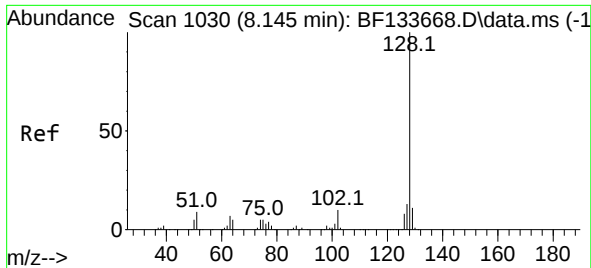
Ion Ratio Lower Upper

180 100

182 94.6 77.8 116.8

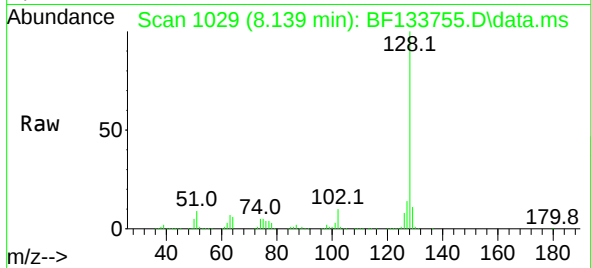
145 32.8 27.0 40.4





#31
Naphthalene
Concen: 36.234 ng
RT: 8.139 min Scan# 1030
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

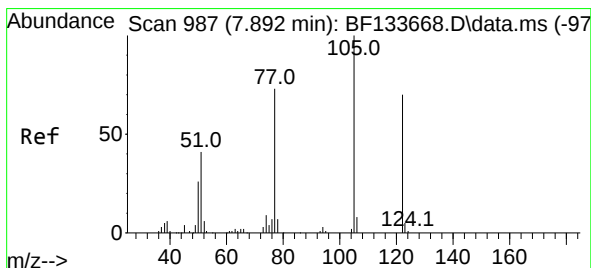
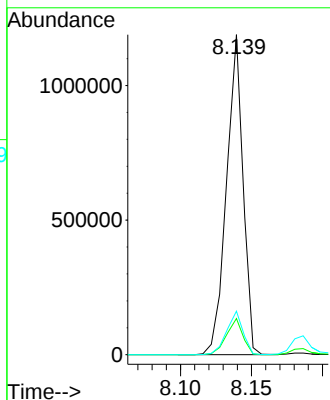
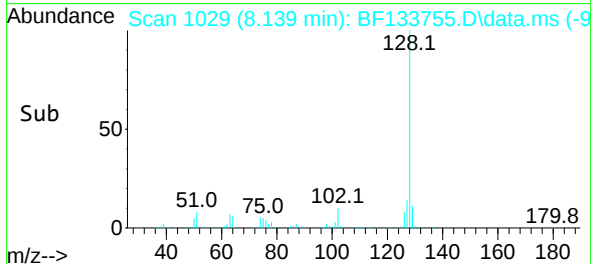
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



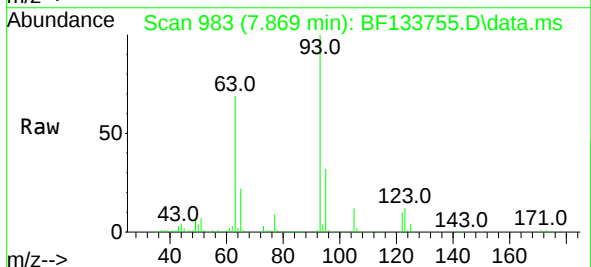
Tgt Ion:128 Resp: 964194
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.6 10.5 15.7

Manual Integrations
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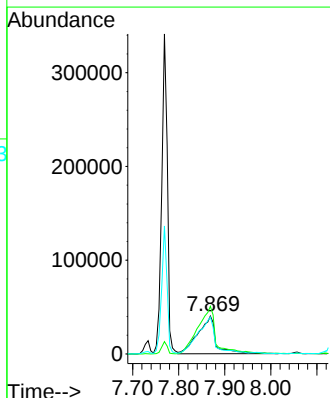
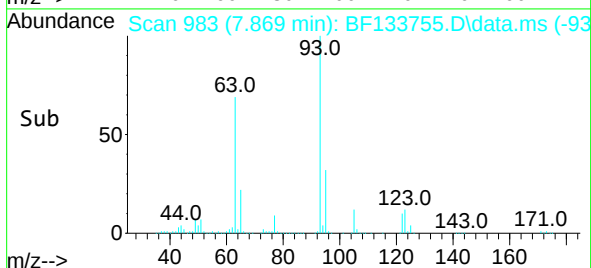
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

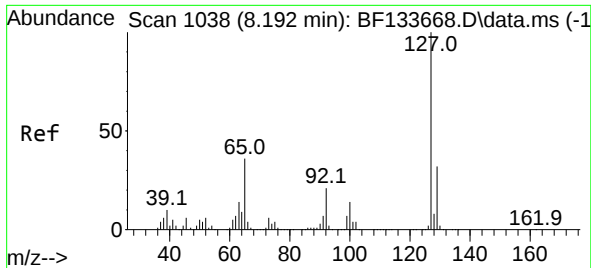


#32
Benzoic acid
Concen: 22.336 ng
RT: 7.869 min Scan# 983
Delta R.T. -0.018 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



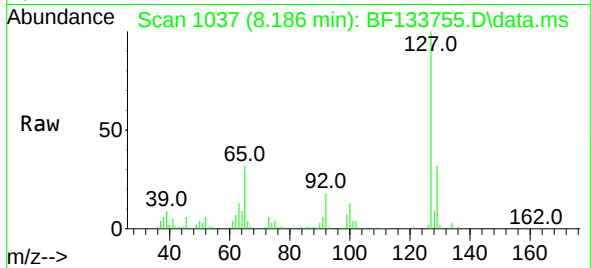
Tgt Ion:122 Resp: 110028
Ion Ratio Lower Upper
122 100
105 125.7 116.3 156.3
77 97.4 82.4 122.4





#33
4-Chloroaniline
Concen: 6.113 ng
RT: 8.186 min Scan# 1037
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

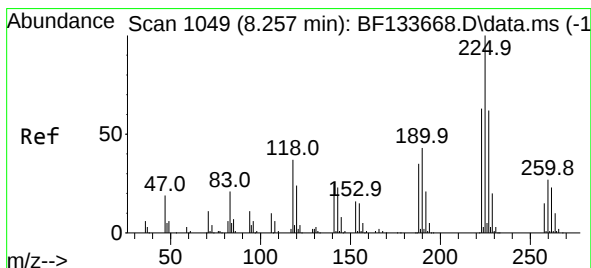
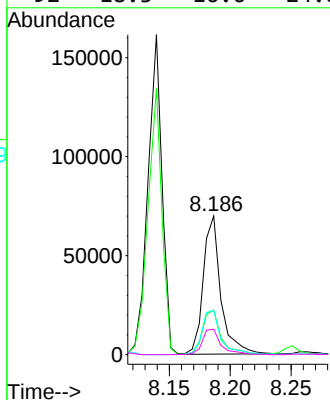
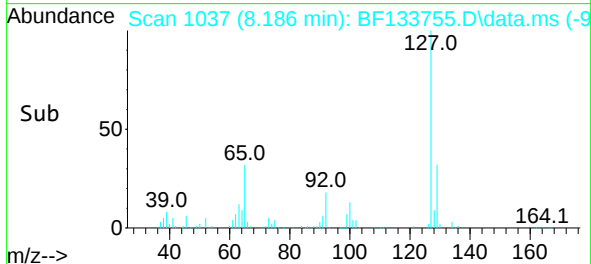
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:127 Resp: 6955
Ion Ratio Lower Upper
127 100
129 32.2 25.6 38.4
65 32.1 28.9 43.3
92 18.3 16.6 24.8

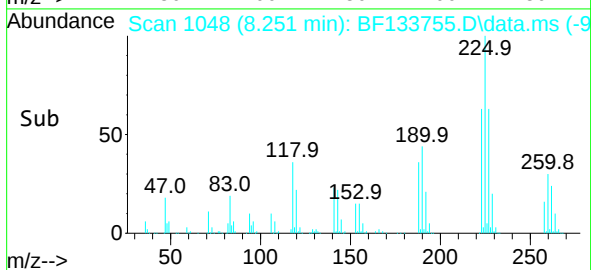
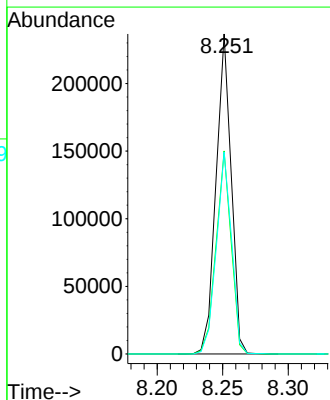
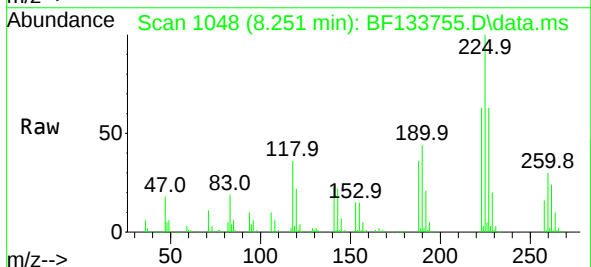
Manual Integrations
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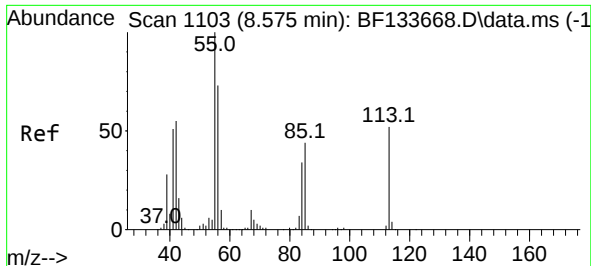
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#34
Hexachlorobutadiene
Concen: 36.346 ng
RT: 8.251 min Scan# 1048
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

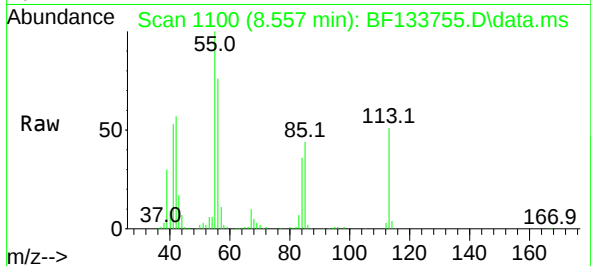
Tgt Ion:225 Resp: 190058
Ion Ratio Lower Upper
225 100
223 63.5 50.2 75.4
227 63.1 49.5 74.3





#35
Caprolactam
Concen: 31.314 ng m
RT: 8.557 min Scan# 1103
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

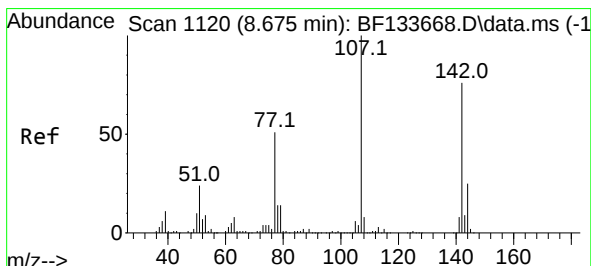
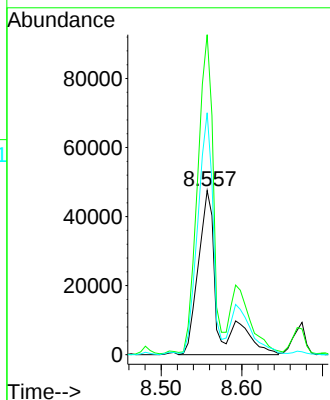
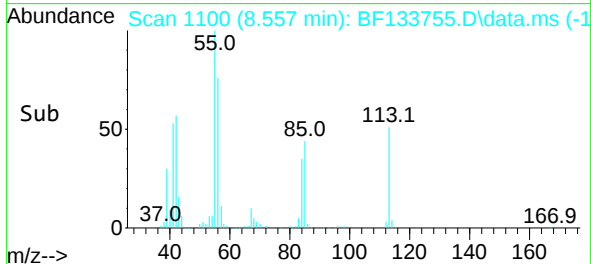
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:113 Resp: 80662
Ion Ratio Lower Upper
113 100
55 194.9 173.3 213.3
56 147.4 120.5 160.5

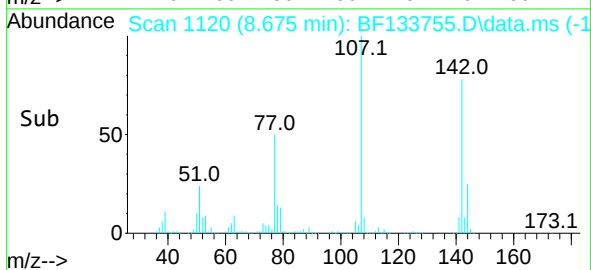
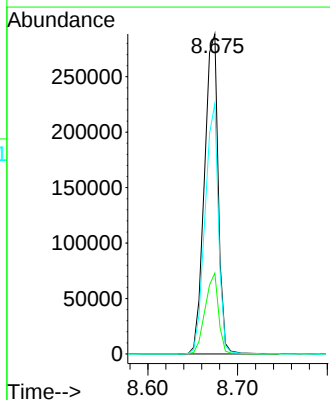
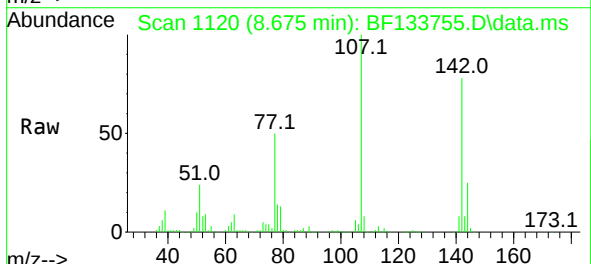
Manual Integrations
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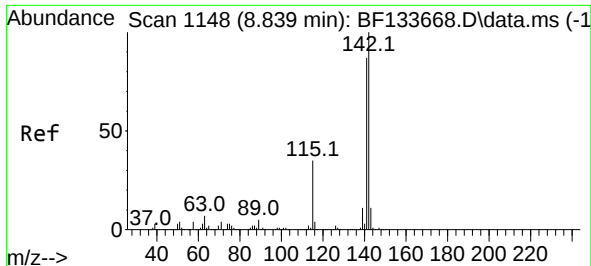
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#36
4-Chloro-3-methylphenol
Concen: 34.845 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

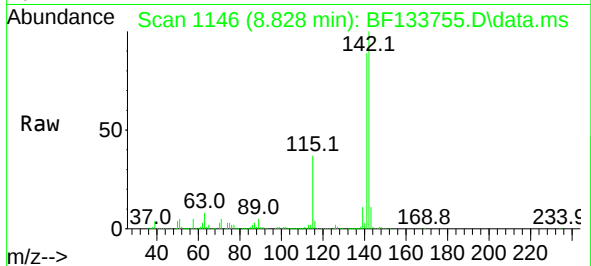
Tgt Ion:107 Resp: 307460
Ion Ratio Lower Upper
107 100
144 25.3 19.7 29.5
142 78.2 61.1 91.7





#37
2-Methylnaphthalene
Concen: 35.381 ng
RT: 8.828 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

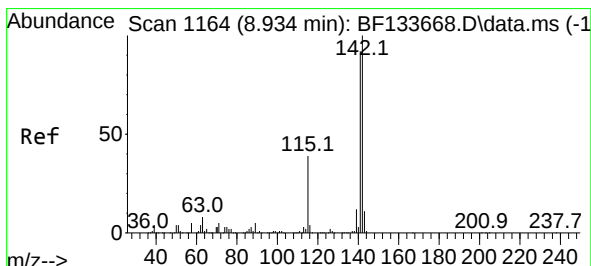
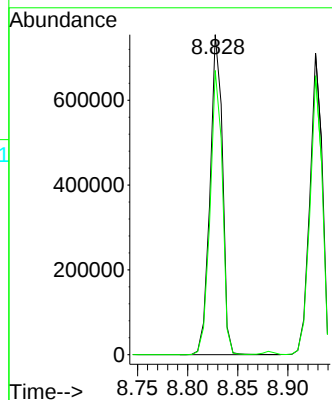
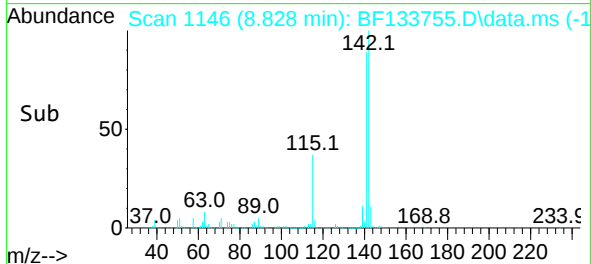
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:142 Resp: 654149
Ion Ratio Lower Upper
142 100
141 88.8 69.8 104.8

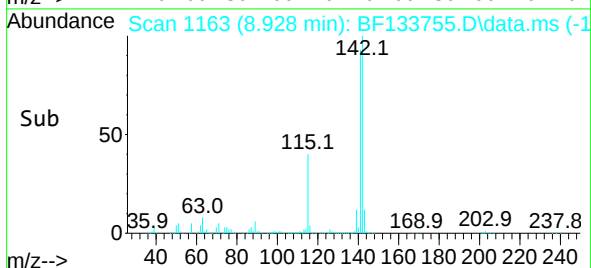
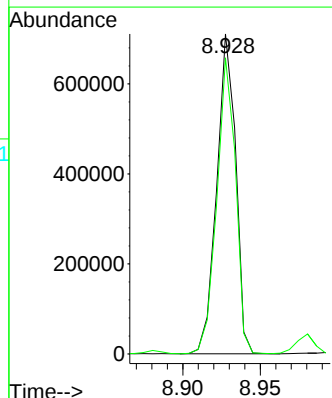
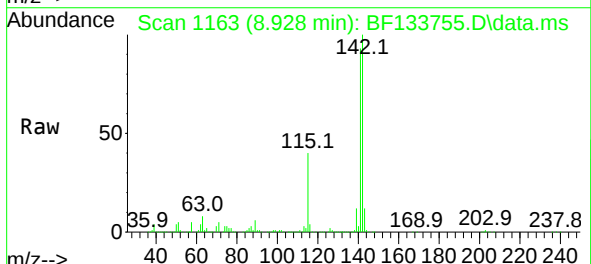
Manual Integrations
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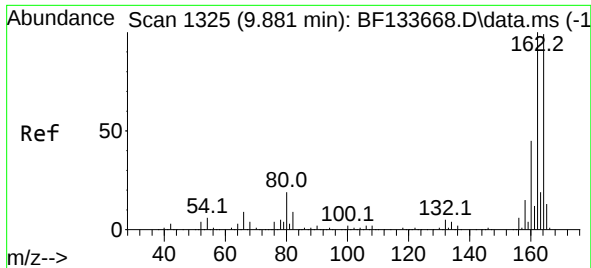
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#38
1-Methylnaphthalene
Concen: 35.562 ng
RT: 8.928 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

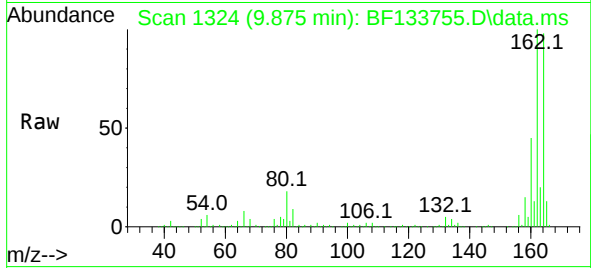
Tgt Ion:142 Resp: 605040
Ion Ratio Lower Upper
142 100
141 92.5 73.4 110.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

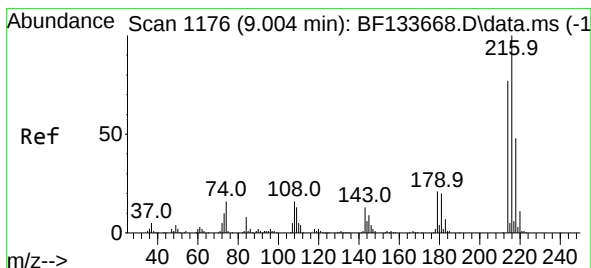
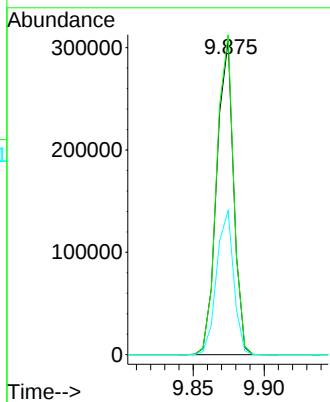
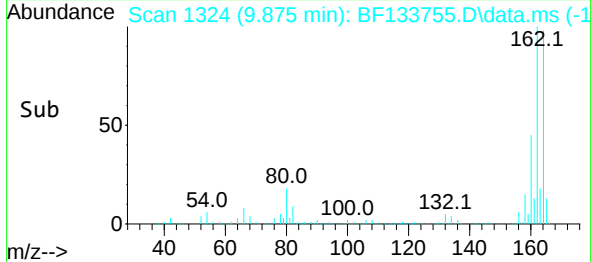
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



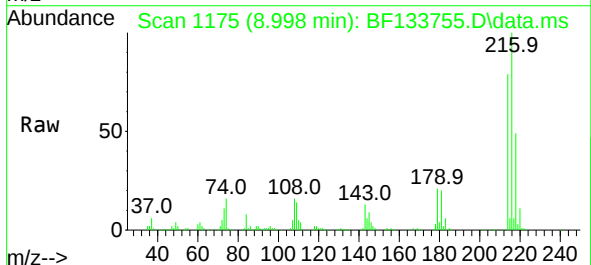
Tgt Ion:164 Resp: 253784
Ion Ratio Lower Upper
164 100
162 101.9 80.8 121.2
160 45.9 36.7 55.1

Manual Integrations
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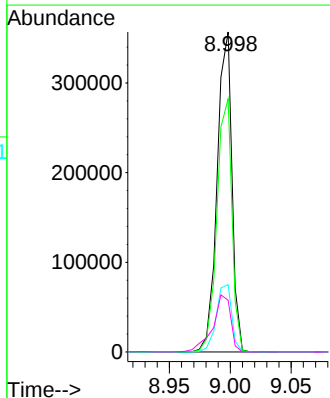
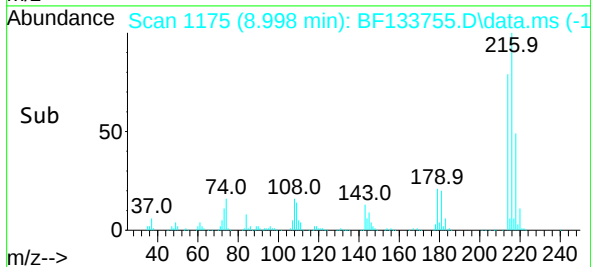
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

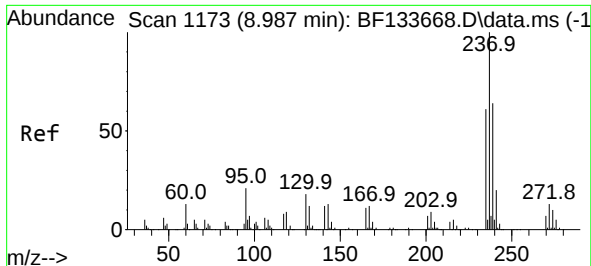


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.056 ng
RT: 8.998 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



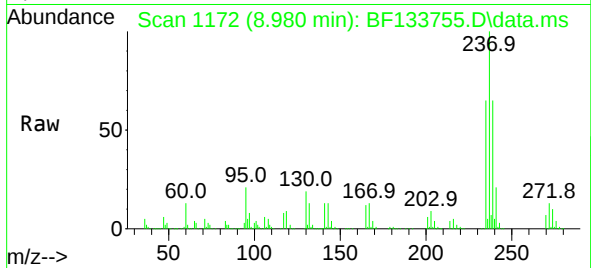
Tgt Ion:216 Resp: 301325
Ion Ratio Lower Upper
216 100
214 80.5 62.7 94.1
179 22.0 17.6 26.4
108 21.6 16.0 24.0





#41
Hexachlorocyclopentadiene
Concen: 80.985 ng
RT: 8.980 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

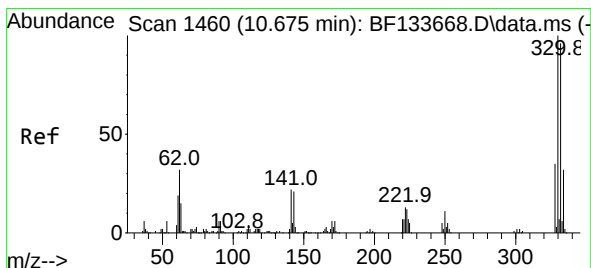
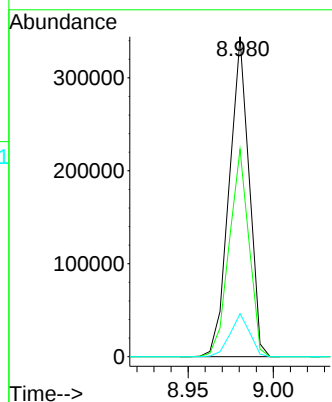
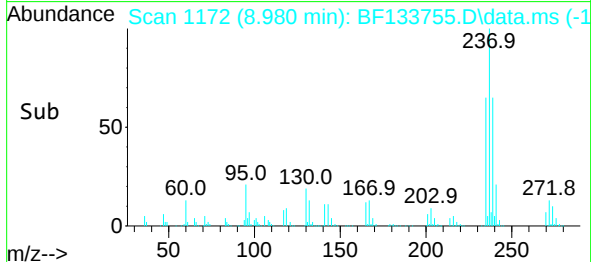
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



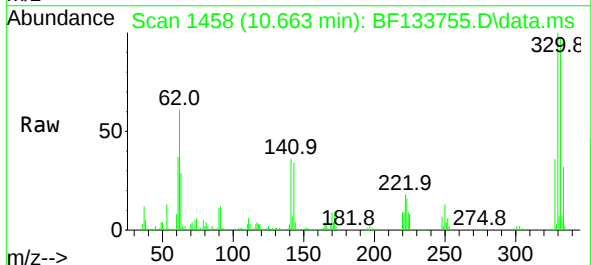
Tgt Ion:237 Resp: 27844
Ion Ratio Lower Upper
237 100
235 64.8 40.6 80.6
272 13.4 0.0 32.6

Manual Integrations
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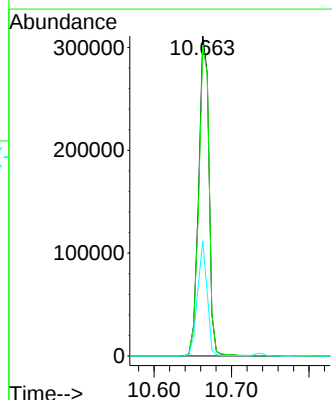
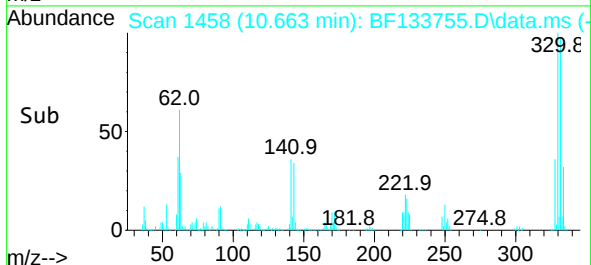
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

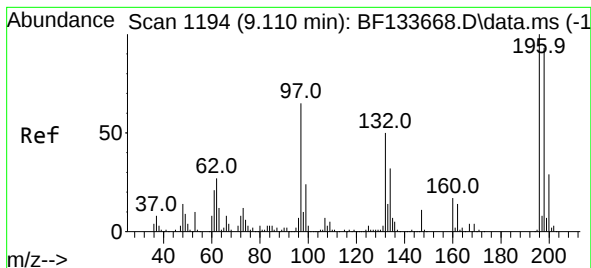


#42
2,4,6-Tribromophenol
Concen: 89.500 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



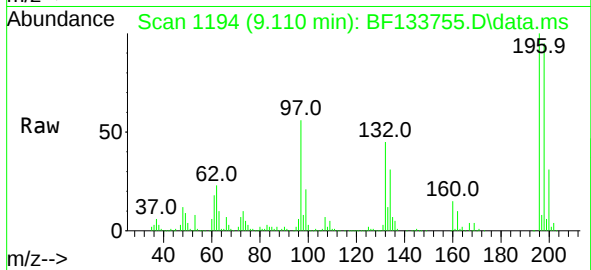
Tgt Ion:330 Resp: 287513
Ion Ratio Lower Upper
330 100
332 97.6 77.2 115.8
141 33.3 24.9 37.3





#43
2,4,6-Trichlorophenol
Concen: 39.019 ng
RT: 9.110 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

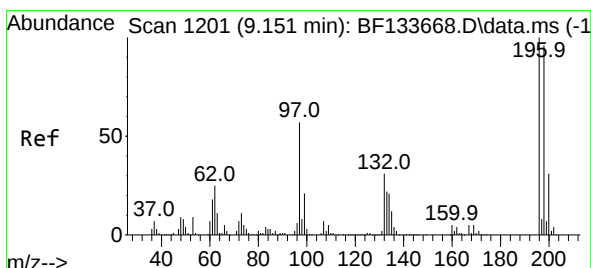
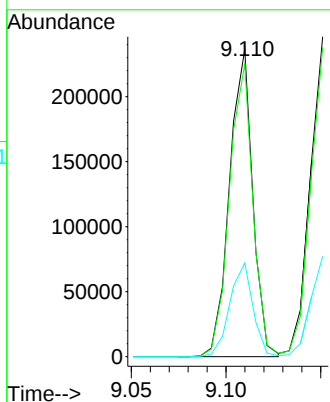
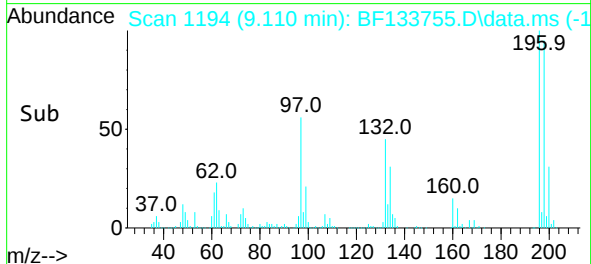
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



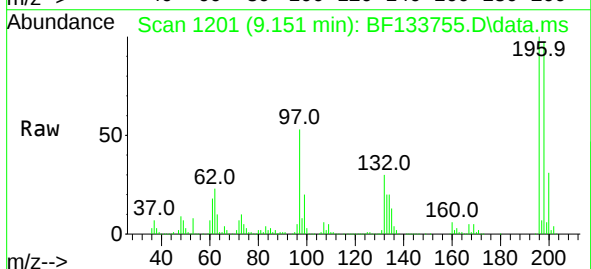
Tgt Ion:196 Resp: 201170
Ion Ratio Lower Upper
196 100
198 95.2 74.5 111.7
200 30.5 22.9 34.3

Manual Integrations
APPROVED

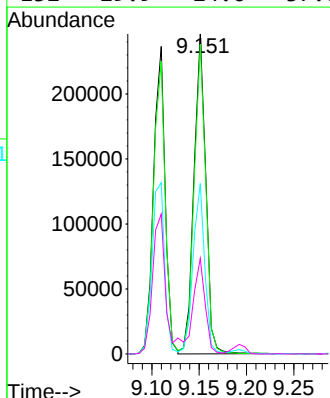
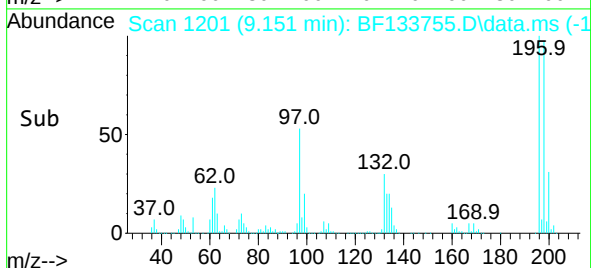
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

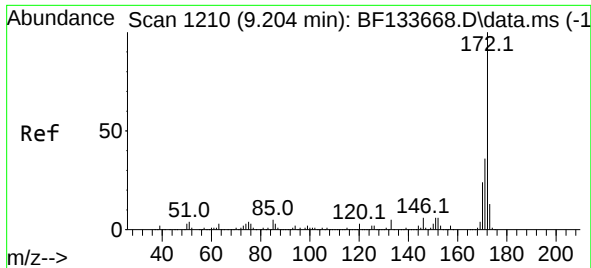


#44
2,4,5-Trichlorophenol
Concen: 35.790 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



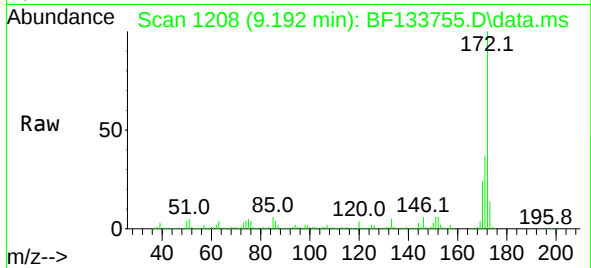
Tgt Ion:196 Resp: 214667
Ion Ratio Lower Upper
196 100
198 96.7 76.8 115.2
97 53.3 45.4 68.2
132 29.9 24.6 37.0





#45
2-Fluorobiphenyl
Concen: 72.104 ng
RT: 9.192 min Scan# 1208
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

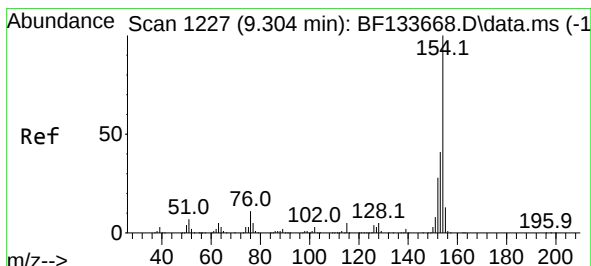
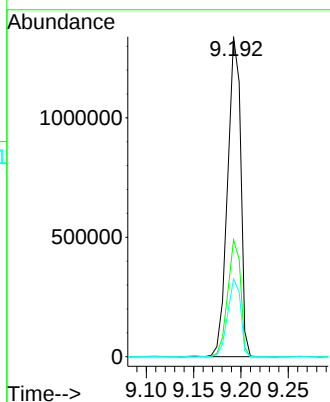
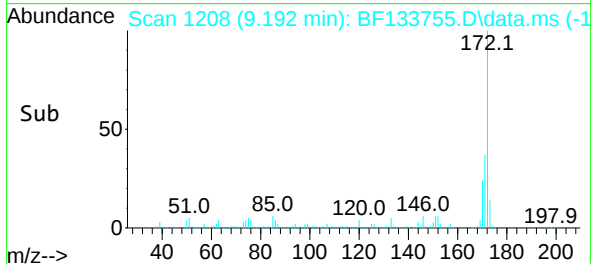
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



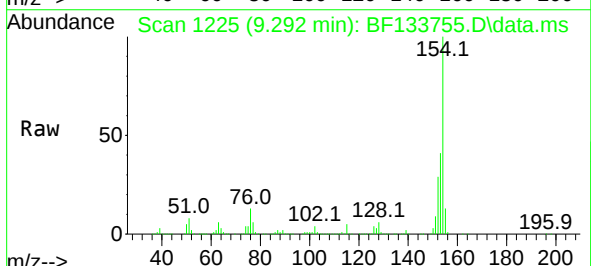
Tgt Ion:172 Resp: 1287268
Ion Ratio Lower Upper
172 100
171 36.5 28.6 43.0
170 24.3 19.1 28.7

Manual Integrations
APPROVED

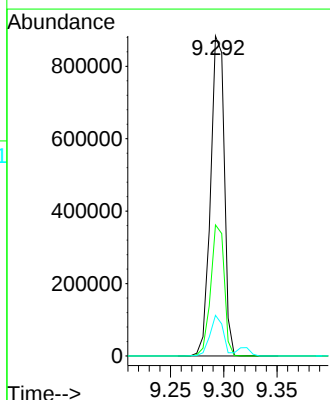
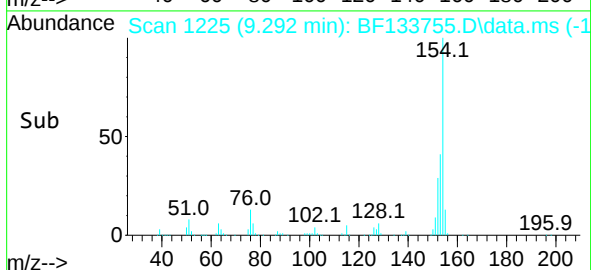
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

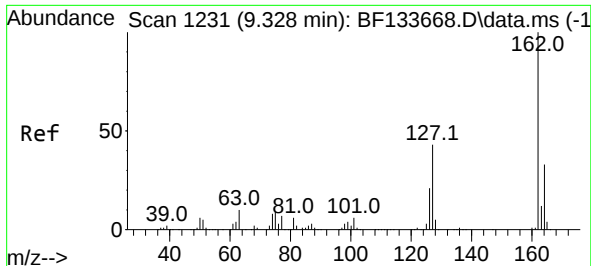


#46
1,1'-Biphenyl
Concen: 38.585 ng
RT: 9.292 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



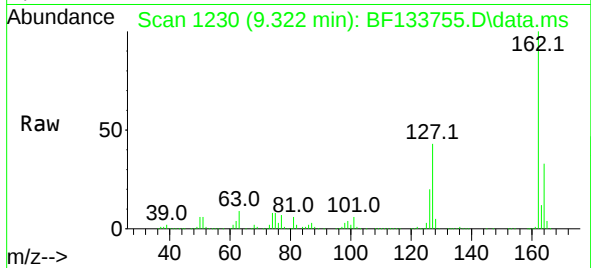
Tgt Ion:154 Resp: 789762
Ion Ratio Lower Upper
154 100
153 41.0 20.6 60.6
76 12.7 0.0 31.0





#47
2-Chloronaphthalene
Concen: 38.746 ng
RT: 9.322 min Scan# 1231
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

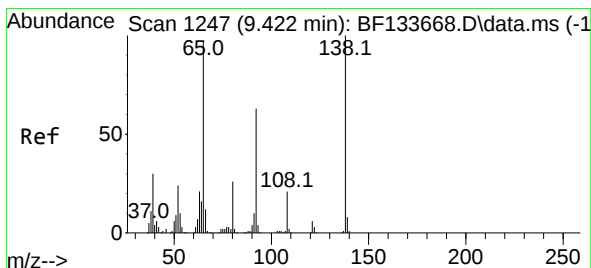
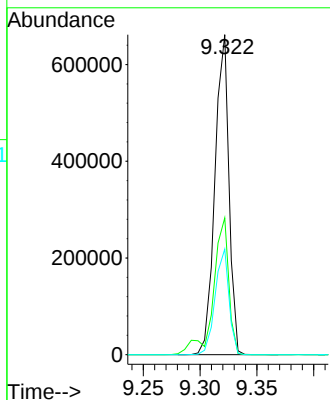
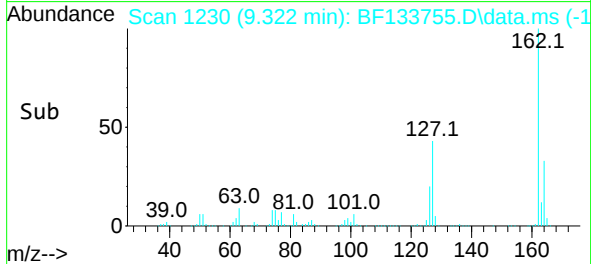
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:162 Resp: 56886
Ion Ratio Lower Upper
162 100
127 42.8 34.6 52.0
164 33.0 26.4 39.6

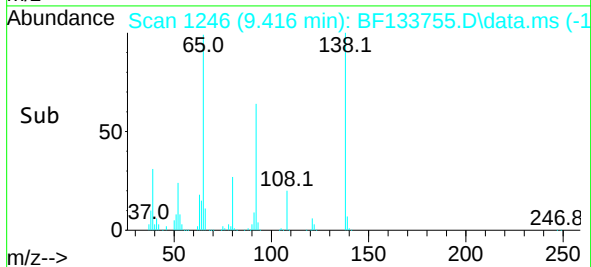
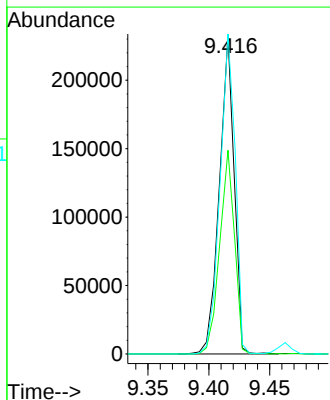
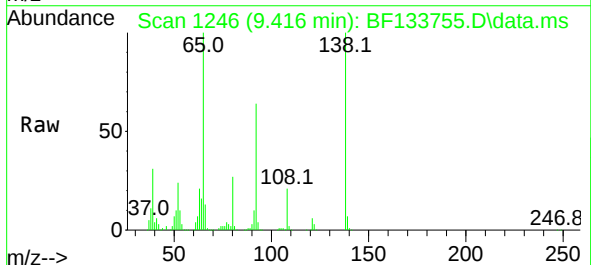
Manual Integrations
APPROVED

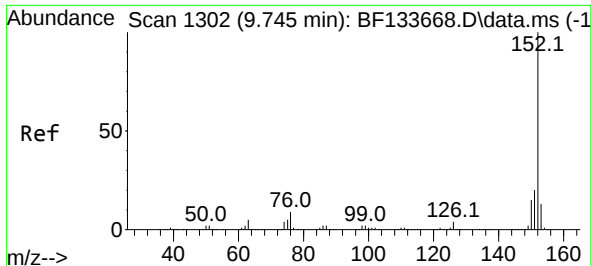
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#48
2-Nitroaniline
Concen: 36.808 ng
RT: 9.416 min Scan# 1246
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

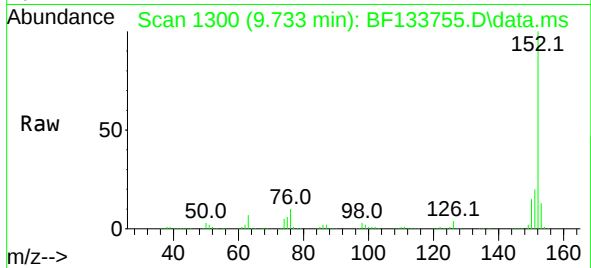
Tgt Ion: 65 Resp: 197646
Ion Ratio Lower Upper
65 100
92 63.8 51.8 77.6
138 100.2 82.1 123.1





#49
Acenaphthylene
Concen: 37.255 ng
RT: 9.733 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

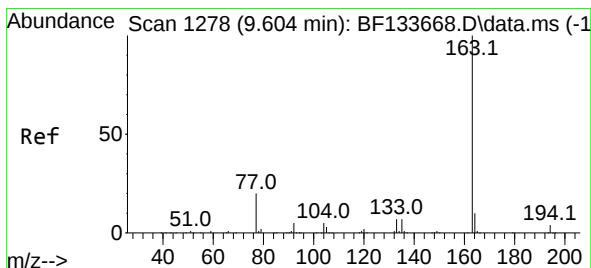
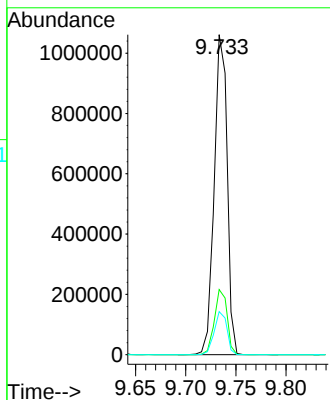
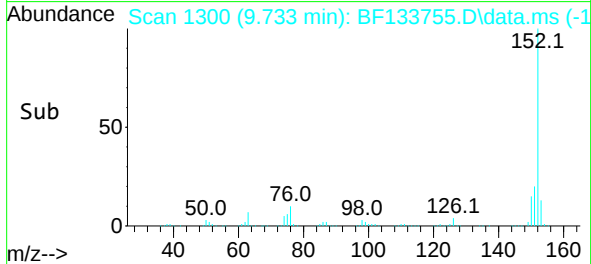
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



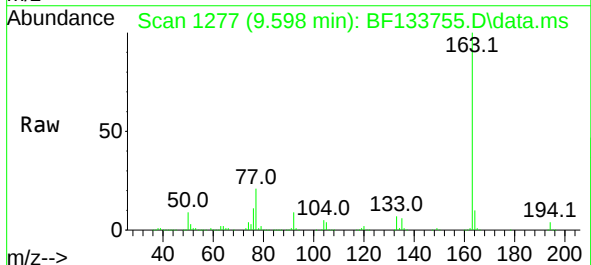
Tgt Ion:152 Resp: 952028
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4
153 13.5 10.4 15.6

Manual Integrations
APPROVED

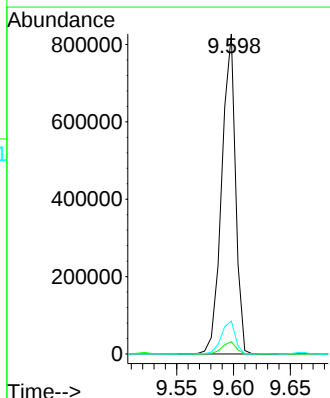
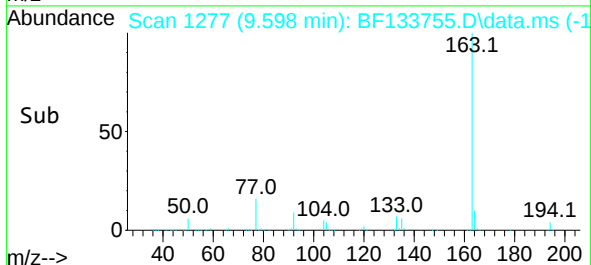
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

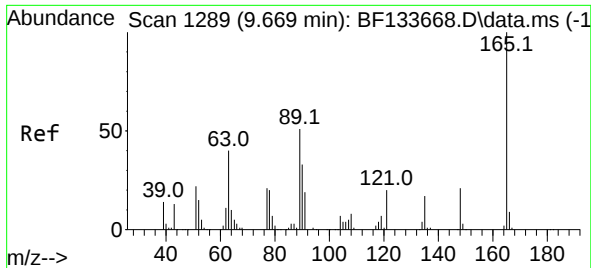


#50
Dimethylphthalate
Concen: 37.087 ng
RT: 9.598 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



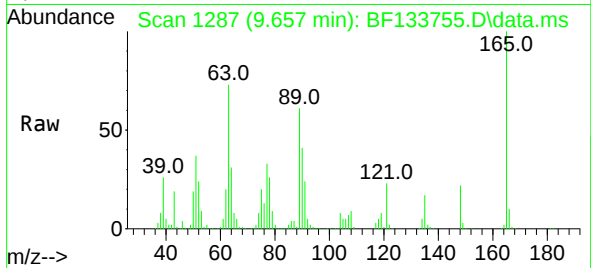
Tgt Ion:163 Resp: 702534
Ion Ratio Lower Upper
163 100
194 3.9 3.2 4.8
164 10.3 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 38.883 ng
RT: 9.657 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

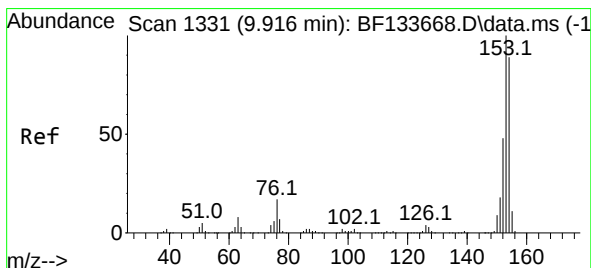
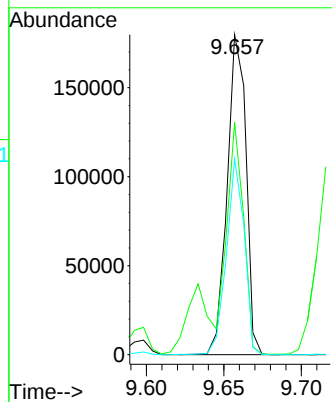
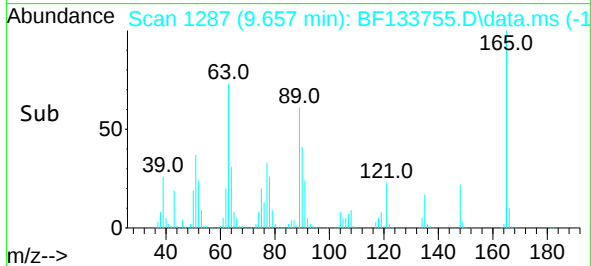
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:165 Resp: 15203
Ion Ratio Lower Upper
165 100
63 72.6 42.1 63.1
89 61.2 40.9 61.3

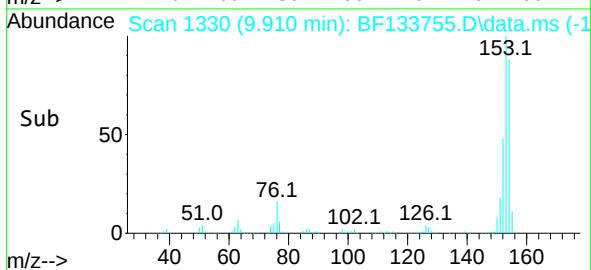
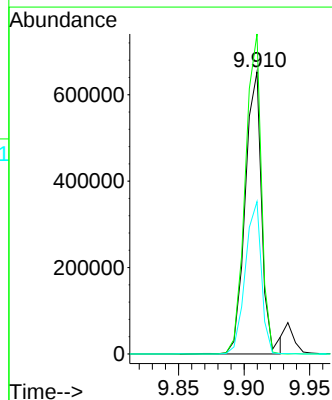
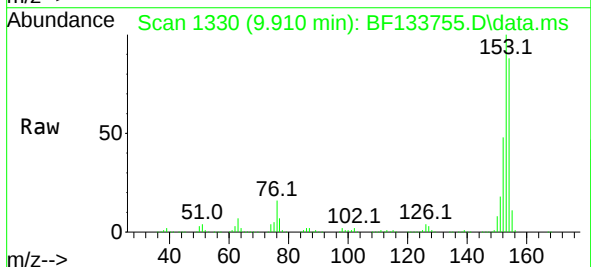
Manual Integrations
APPROVED

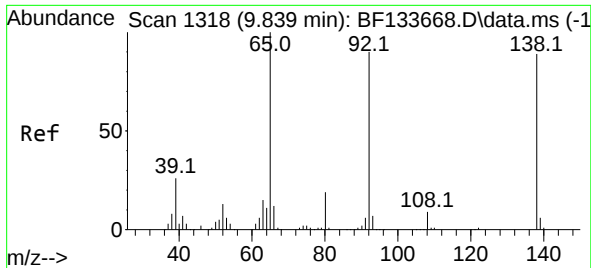
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#52
Acenaphthene
Concen: 38.484 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

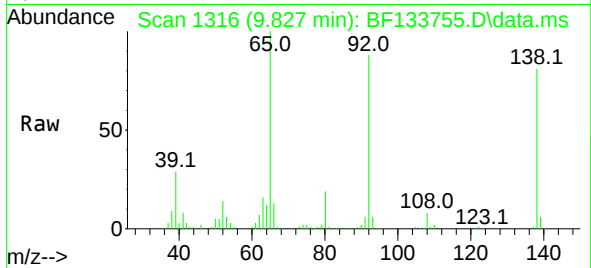
Tgt Ion:154 Resp: 575633
Ion Ratio Lower Upper
154 100
153 113.4 89.8 134.8
152 54.0 43.4 65.2





#53
3-Nitroaniline
Concen: 20.396 ng
RT: 9.827 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

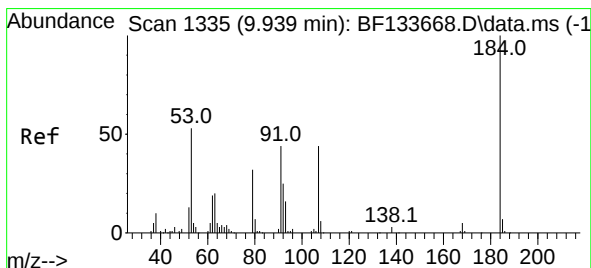
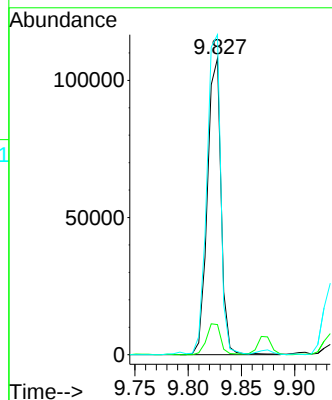
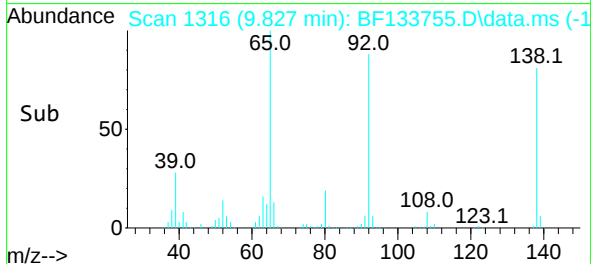
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:138 Resp: 97048
Ion Ratio Lower Upper
138 100
108 10.2 8.2 12.4
92 108.1 81.0 121.6

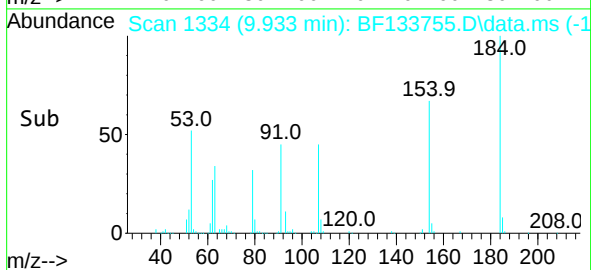
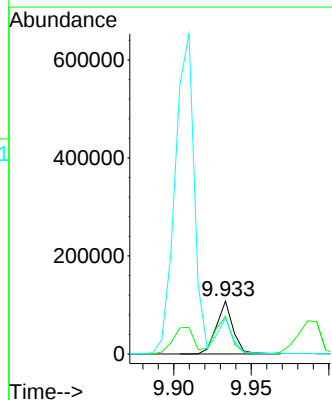
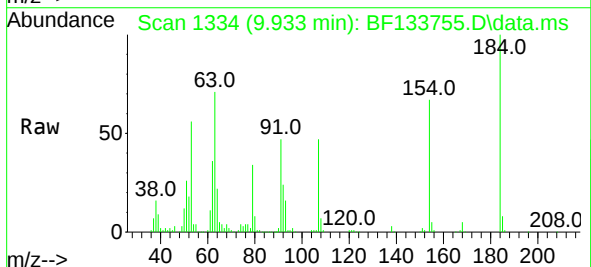
Manual Integrations
APPROVED

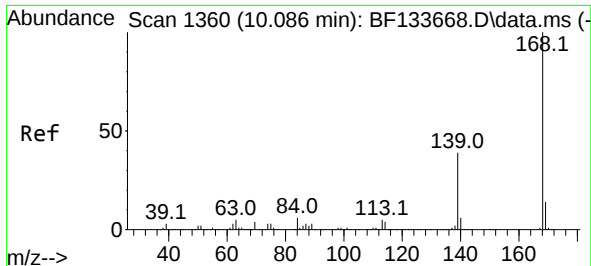
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#54
2,4-Dinitrophenol
Concen: 44.868 ng
RT: 9.933 min Scan# 1334
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

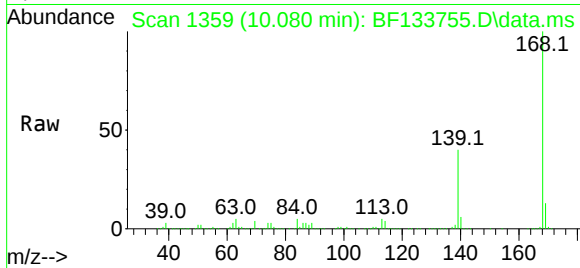
Tgt Ion:184 Resp: 80563
Ion Ratio Lower Upper
184 100
63 71.2 55.3 82.9
154 67.4 51.9 77.9





#55
Dibenzenofuran
Concen: 36.725 ng
RT: 10.080 min Scan# 1360
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

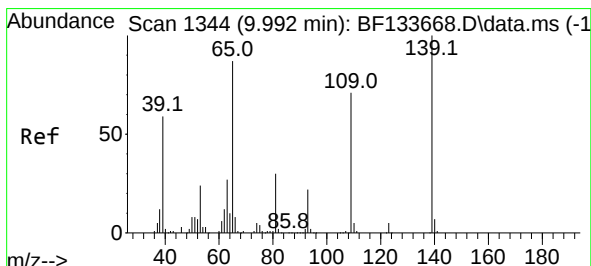
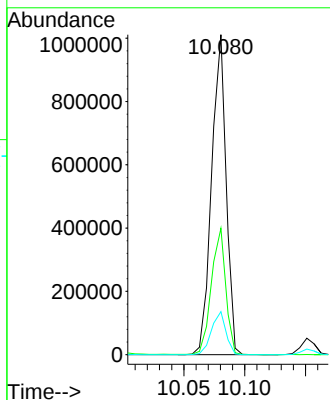
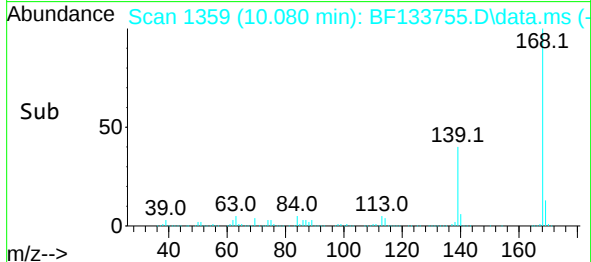
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:168 Resp: 83820
Ion Ratio Lower Upper
168 100
139 39.5 30.9 46.3
169 13.4 10.9 16.3

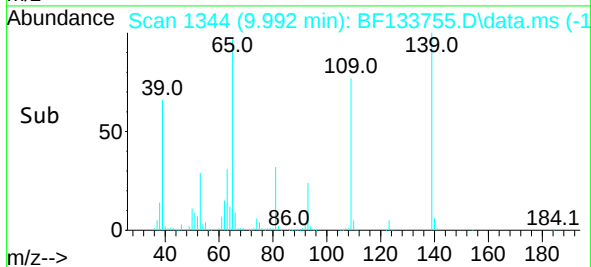
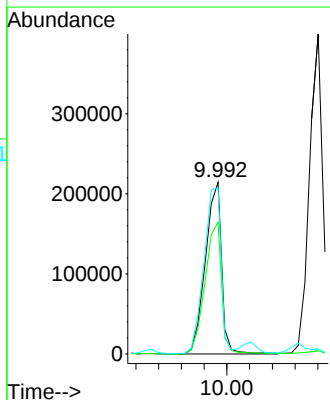
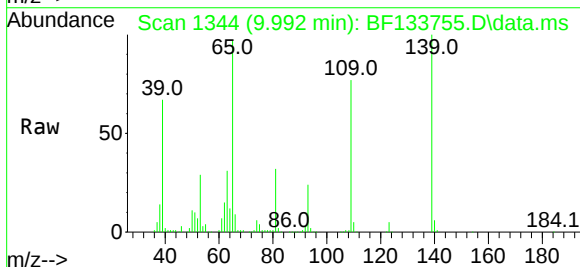
Manual Integrations
APPROVED

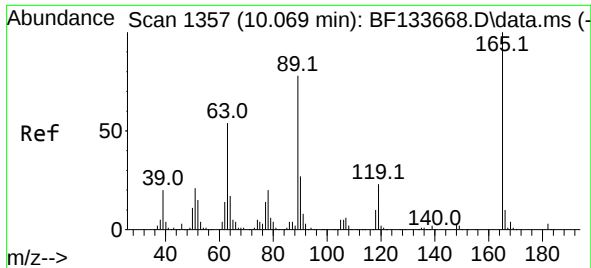
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#56
4-Nitrophenol
Concen: 65.999 ng
RT: 9.992 min Scan# 1344
Delta R.T. 0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

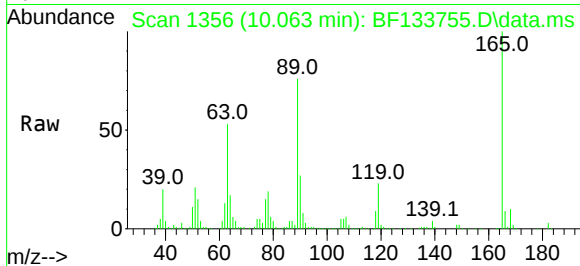
Tgt Ion:139 Resp: 211942
Ion Ratio Lower Upper
139 100
109 76.8 50.7 90.7
65 96.8 67.1 107.1





#57
2,4-Dinitrotoluene
Concen: 38.550 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

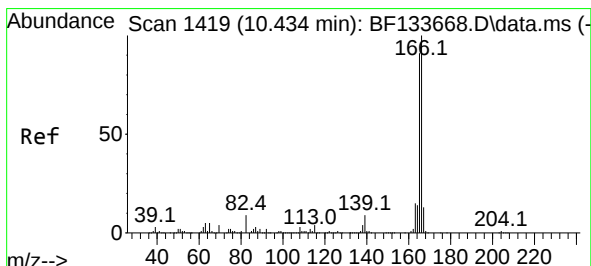
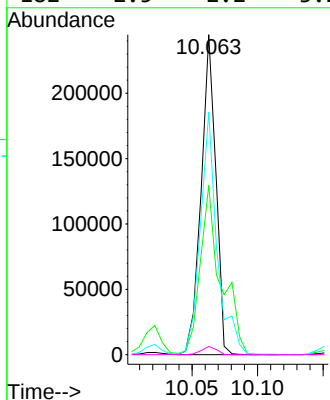
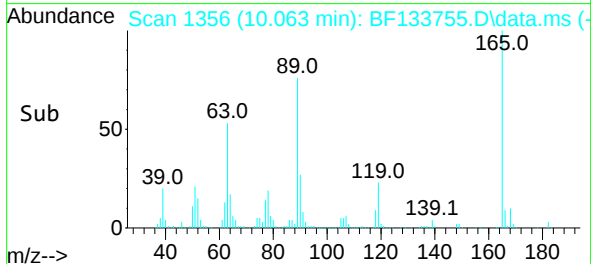
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:165 Resp: 191699
Ion Ratio Lower Upper
165 100
63 52.9 43.0 64.6
89 75.8 62.6 93.8
182 2.5 2.2 3.2

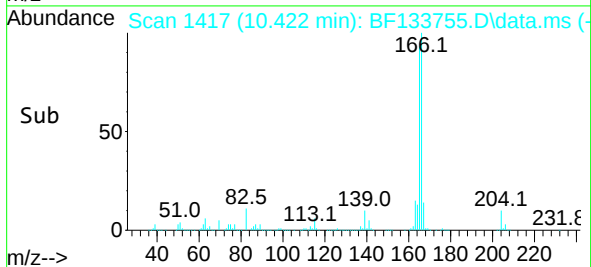
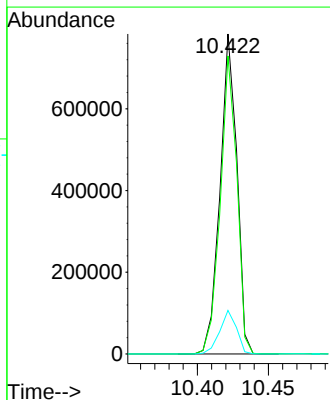
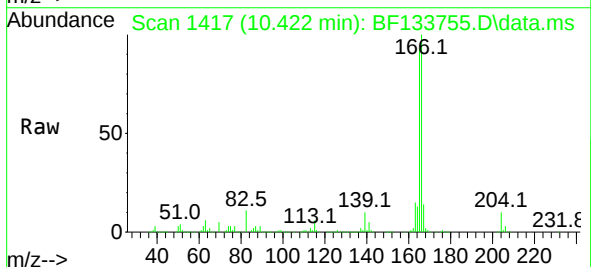
Manual Integrations
APPROVED

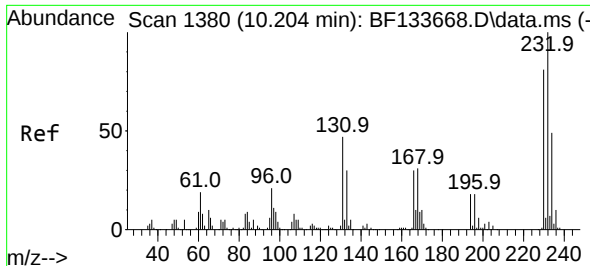
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#58
Fluorene
Concen: 36.799 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

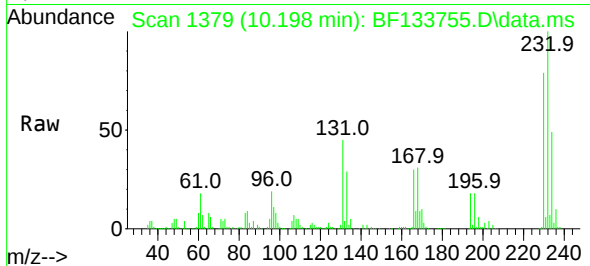
Tgt Ion:166 Resp: 642301
Ion Ratio Lower Upper
166 100
165 93.2 73.1 109.7
167 13.6 10.5 15.7





#59
2,3,4,6-Tetrachlorophenol
Concen: 38.114 ng
RT: 10.198 min Scan# 1379
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

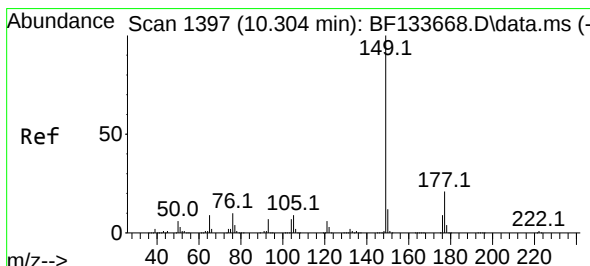
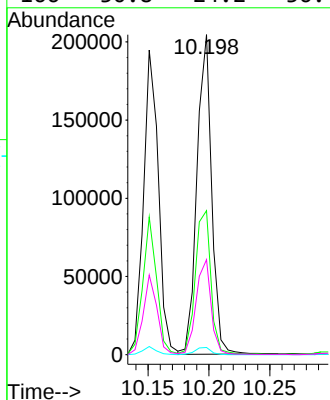
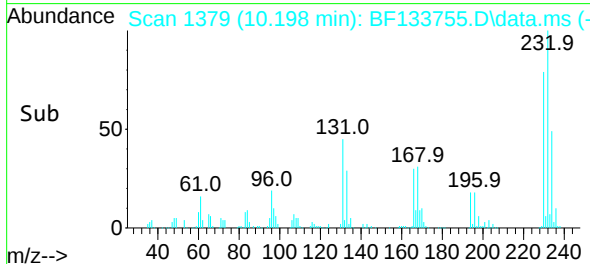
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:232 Resp: 171154
Ion Ratio Lower Upper
232 100
131 47.9 38.0 57.0
130 2.5 1.8 2.8
166 30.8 24.2 36.4

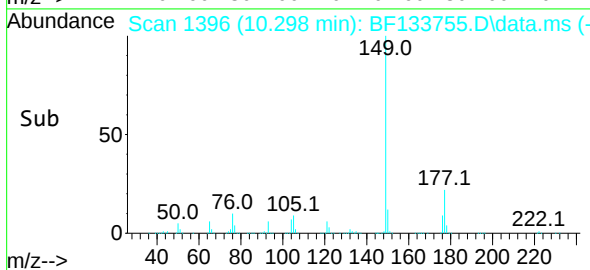
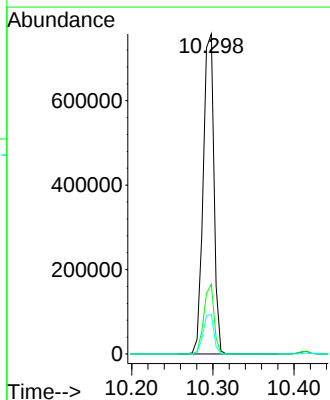
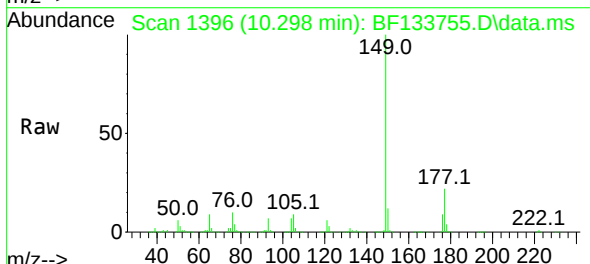
Manual Integrations
APPROVED

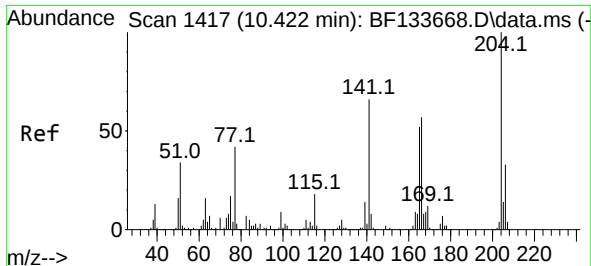
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#60
Diethylphthalate
Concen: 36.072 ng
RT: 10.298 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

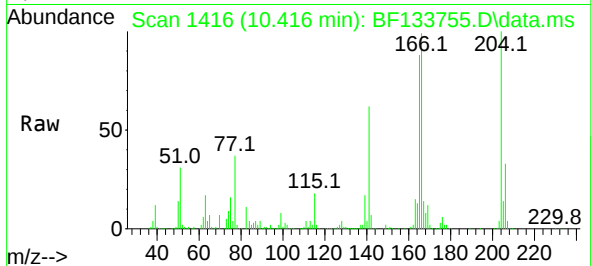
Tgt Ion:149 Resp: 695438
Ion Ratio Lower Upper
149 100
177 21.7 17.0 25.6
150 12.3 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 36.270 ng
RT: 10.416 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

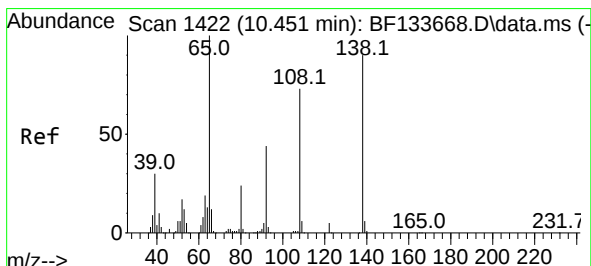
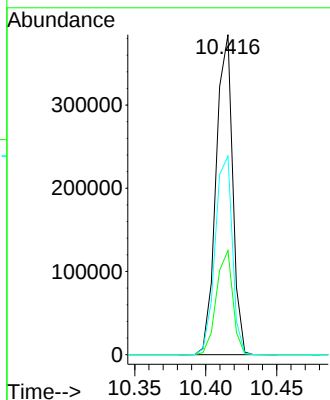
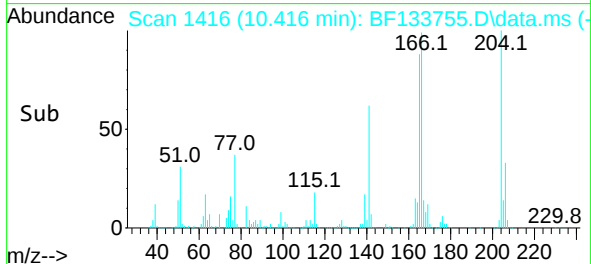
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



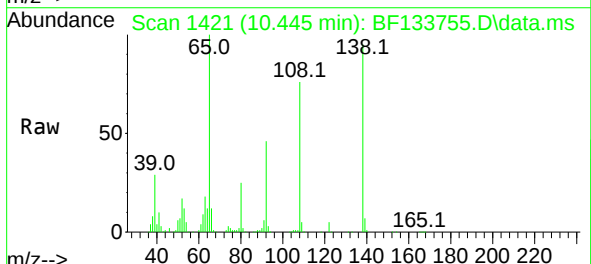
Tgt Ion:204 Resp: 312528
Ion Ratio Lower Upper
204 100
206 32.6 26.4 39.6
141 62.0 52.8 79.2

Manual Integrations
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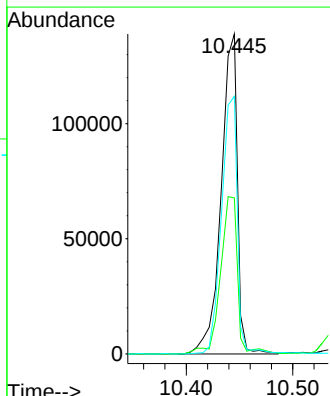
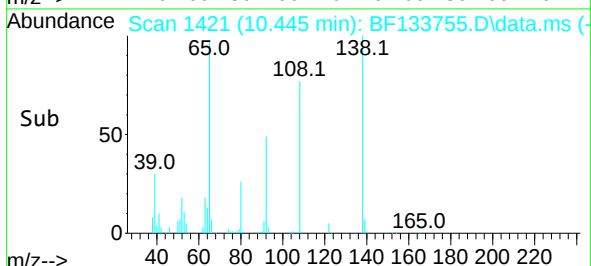
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

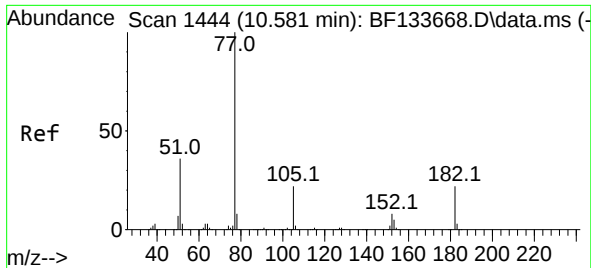


#62
4-Nitroaniline
Concen: 31.519 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



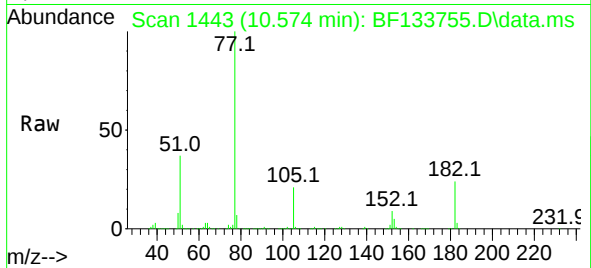
Tgt Ion:138 Resp: 147045
Ion Ratio Lower Upper
138 100
92 48.7 28.9 68.9
108 80.5 61.0 101.0





#63
Azobenzene
Concen: 35.691 ng
RT: 10.574 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

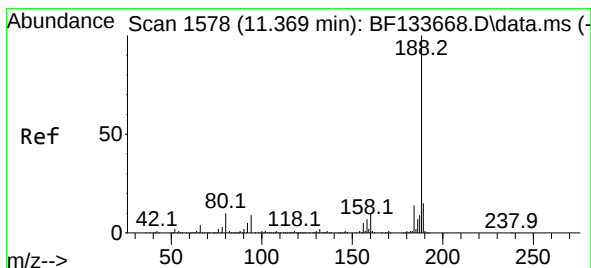
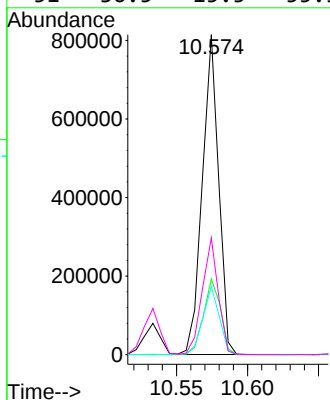
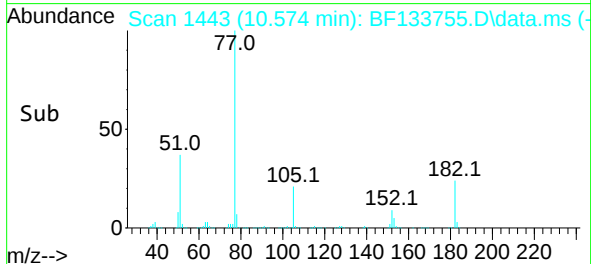
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



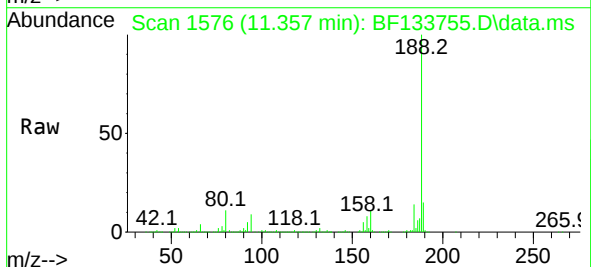
Tgt Ion: 77 Resp: 651409
Ion Ratio Lower Upper
77 100
182 23.7 1.6 41.6
105 21.3 1.6 41.6
51 36.5 15.5 55.5

Manual Integrations
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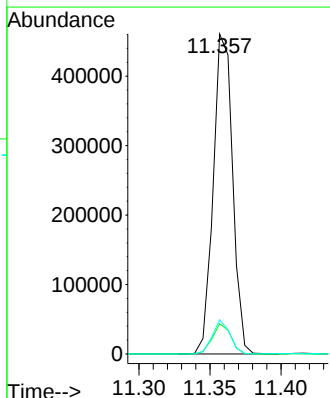
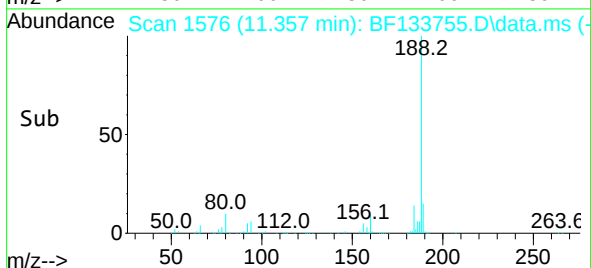
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

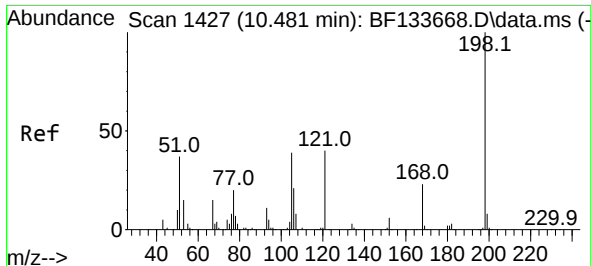


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



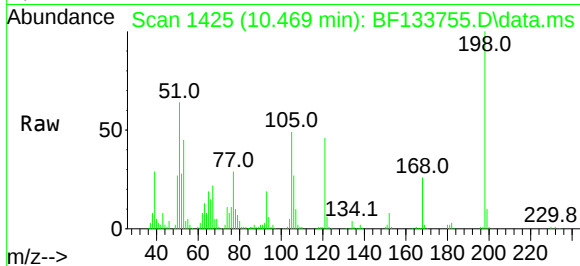
Tgt Ion:188 Resp: 436723
Ion Ratio Lower Upper
188 100
94 9.5 6.8 10.2
80 10.7 7.8 11.6





#65
4,6-Dinitro-2-methylphenol
Concen: 31.502 ng
RT: 10.469 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

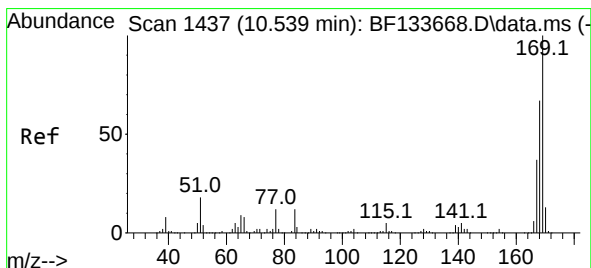
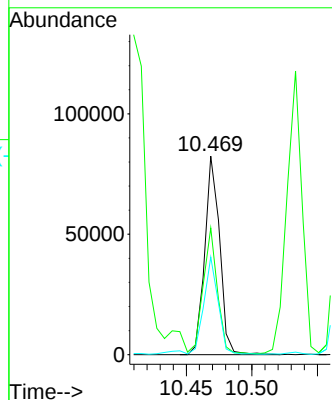
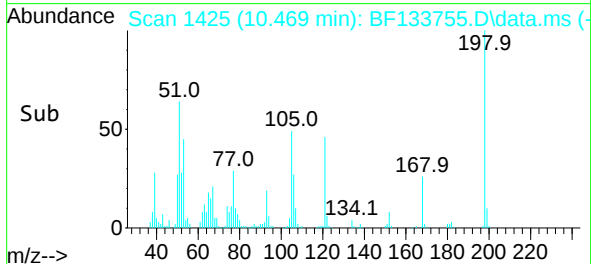
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



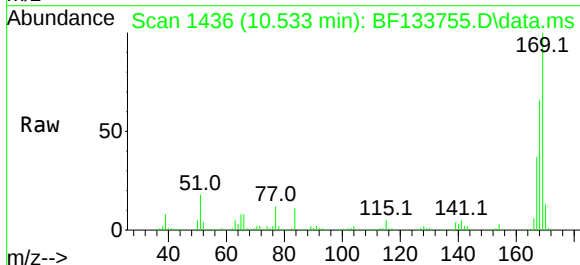
Tgt Ion:198 Resp: 6574
Ion Ratio Lower Upper
198 100
51 63.8 27.5 67.5
105 49.2 21.0 61.0

Manual Integrations
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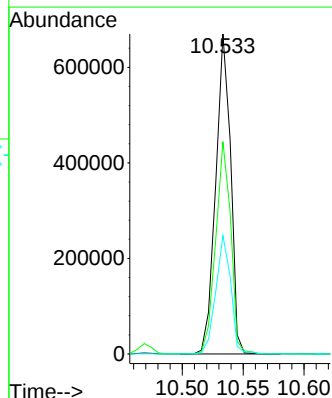
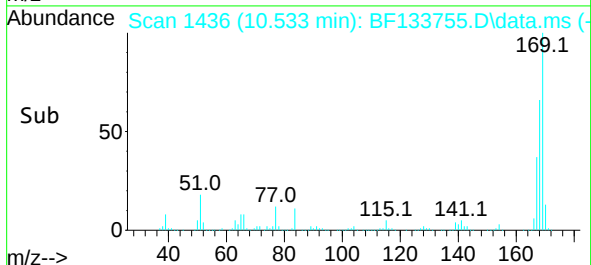
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

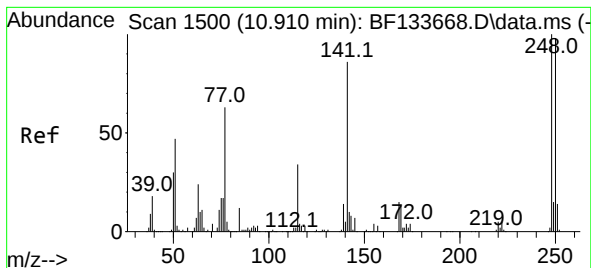


#66
n-Nitrosodiphenylamine
Concen: 38.863 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



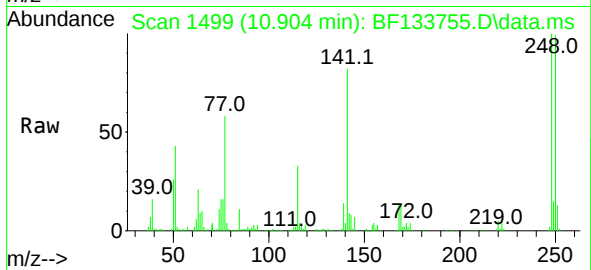
Tgt Ion:169 Resp: 570104
Ion Ratio Lower Upper
169 100
168 66.3 53.7 80.5
167 37.0 29.8 44.8





#67
4-Bromophenyl-phenylether
Concen: 38.238 ng
RT: 10.904 min Scan# 1499
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

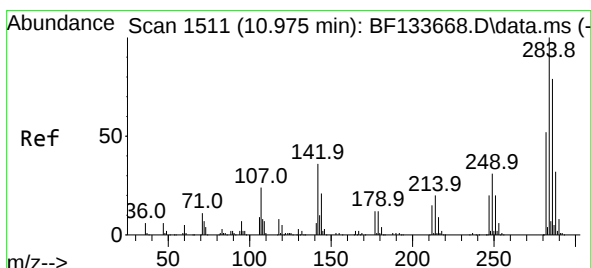
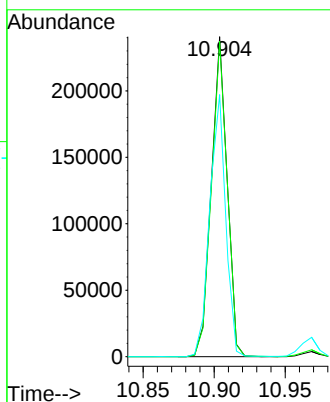
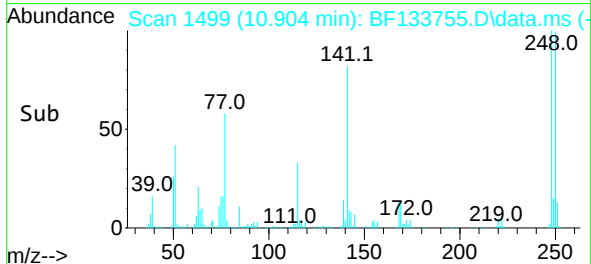
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



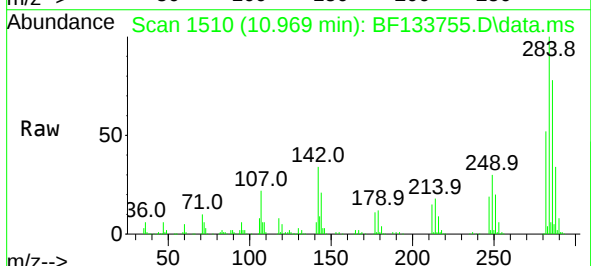
Tgt Ion:248 Resp: 186380
Ion Ratio Lower Upper
248 100
250 98.6 78.3 117.5
141 81.9 69.0 103.6

Manual Integrations
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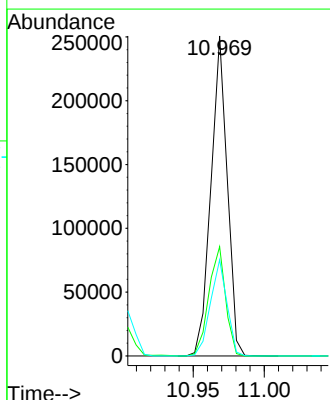
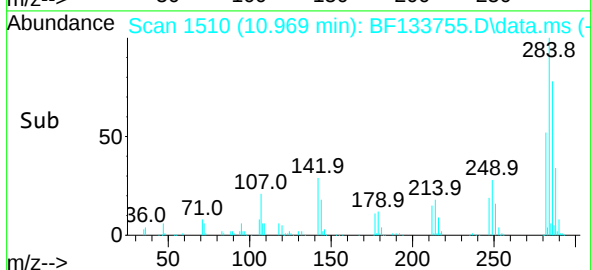
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

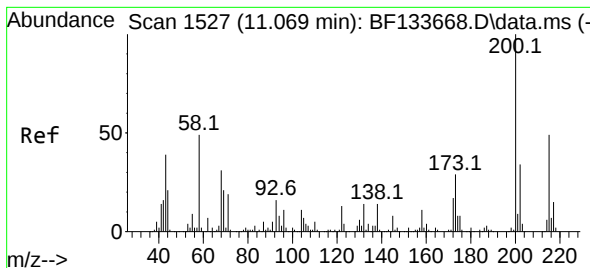


#68
Hexachlorobenzene
Concen: 39.114 ng
RT: 10.969 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



Tgt Ion:284 Resp: 200493
Ion Ratio Lower Upper
284 100
142 34.1 28.6 42.8
249 30.0 24.6 36.8





#69

Atrazine

Concen: 42.159 ng

RT: 11.063 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS

Tgt Ion:200 Resp: 17944

Ion Ratio Lower Upper

200 100

173 25.5 8.7 48.7

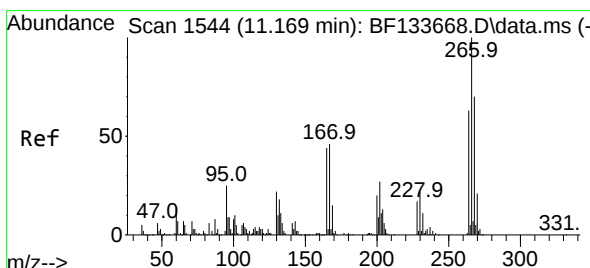
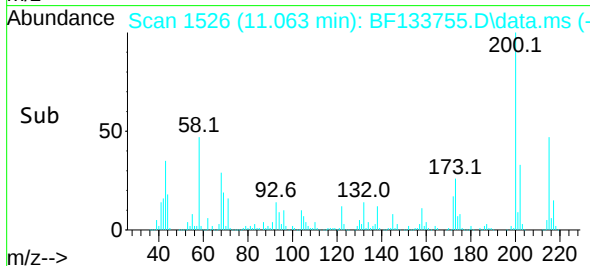
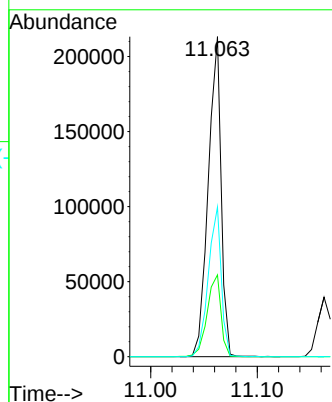
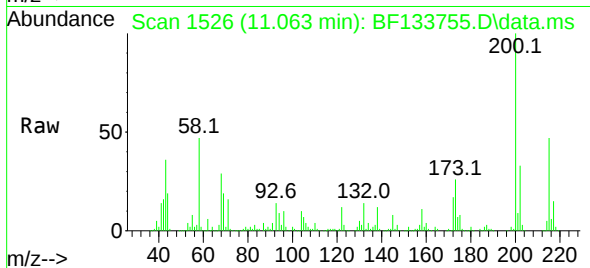
215 46.8 29.0 69.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#70

Pentachlorophenol

Concen: 60.946 ng

RT: 11.163 min Scan# 1543

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

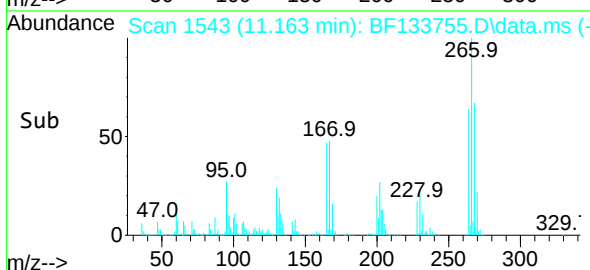
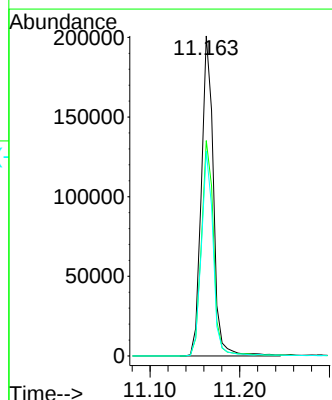
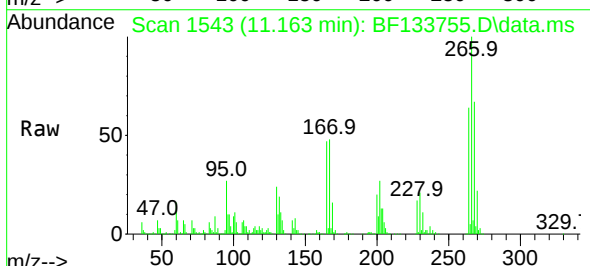
Tgt Ion:266 Resp: 187066

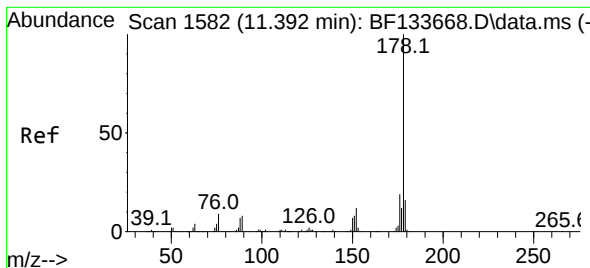
Ion Ratio Lower Upper

266 100

268 67.3 55.7 83.5

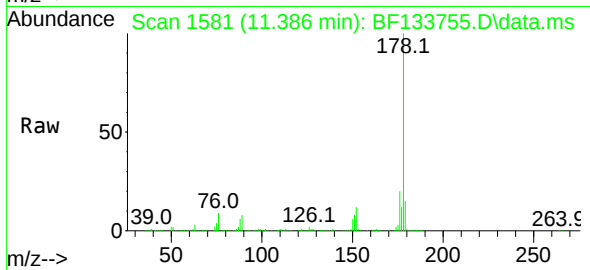
264 63.9 50.7 76.1





#71
Phenanthrene
Concen: 36.731 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

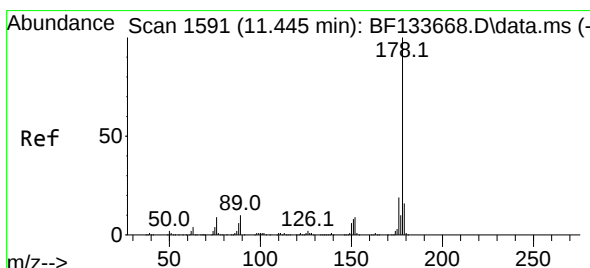
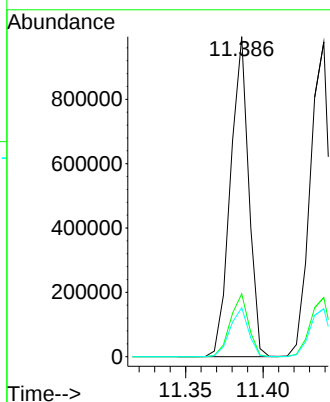
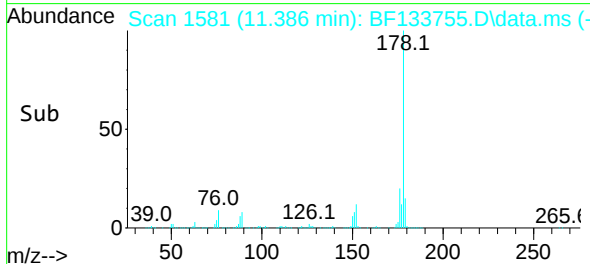
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:178 Resp: 81386
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.3 12.4 18.6

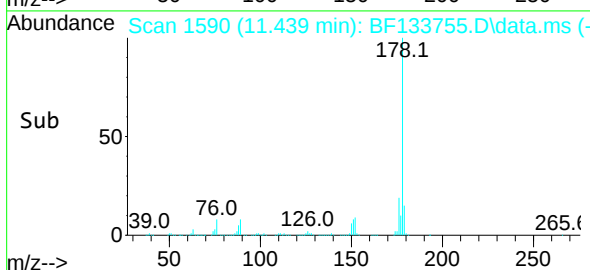
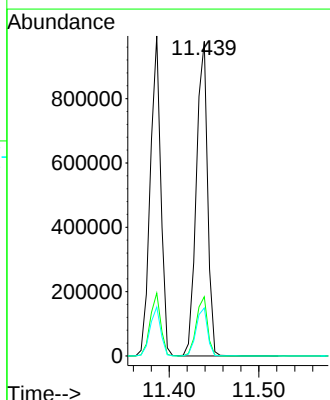
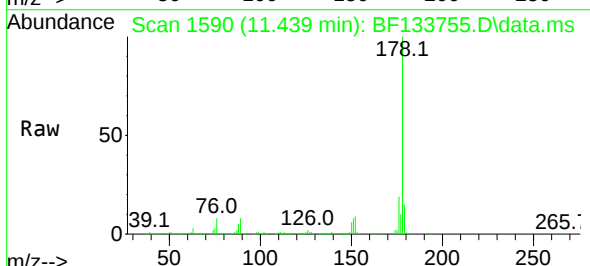
Manual Integrations
APPROVED

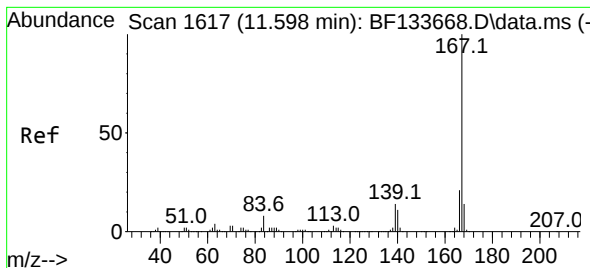
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#72
Anthracene
Concen: 36.742 ng
RT: 11.439 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Tgt Ion:178 Resp: 848850
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.3 12.6 18.8





#73

Carbazole

Concen: 35.743 ng

RT: 11.592 min Scan# 1616

Delta R.T. -0.006 min

Lab File: BF133755.D

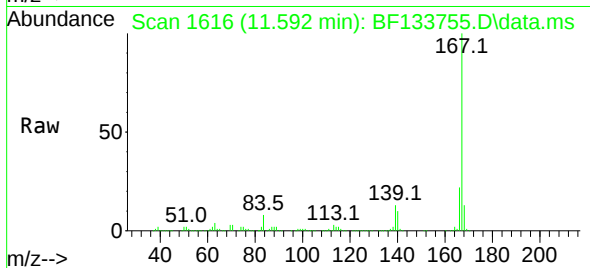
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion:167 Resp: 769088

Ion Ratio Lower Upper

167 100

166 21.5 17.0 25.6

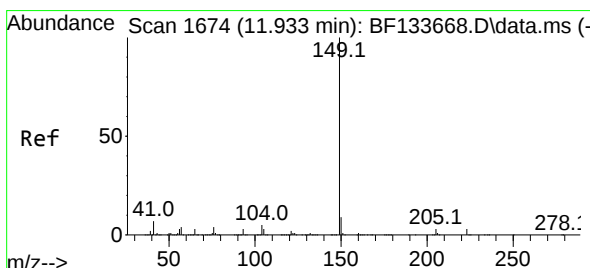
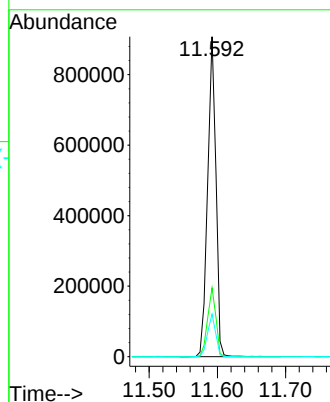
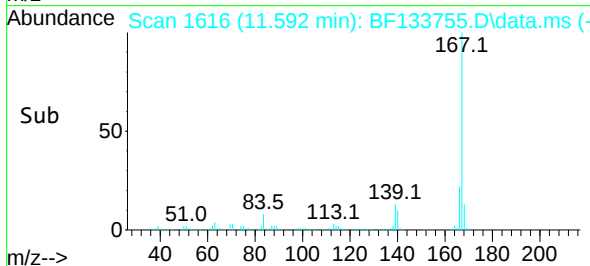
139 13.3 11.2 16.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#74

Di-n-butylphthalate

Concen: 35.526 ng

RT: 11.921 min Scan# 1672

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

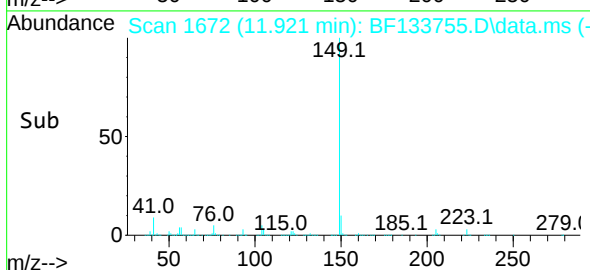
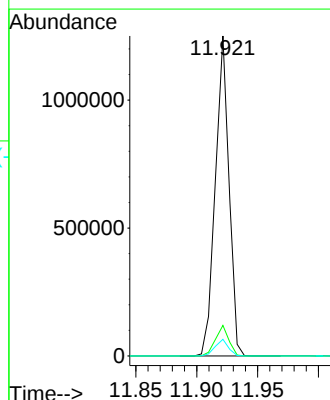
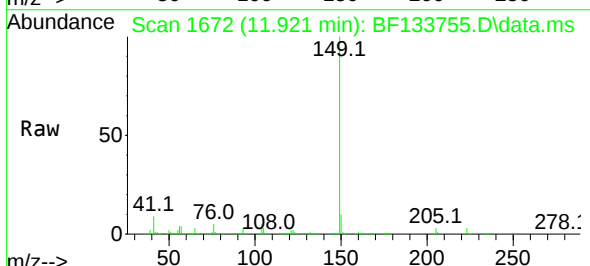
Tgt Ion:149 Resp: 979990

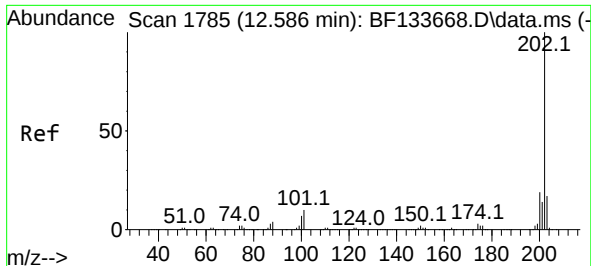
Ion Ratio Lower Upper

149 100

150 9.6 7.4 11.0

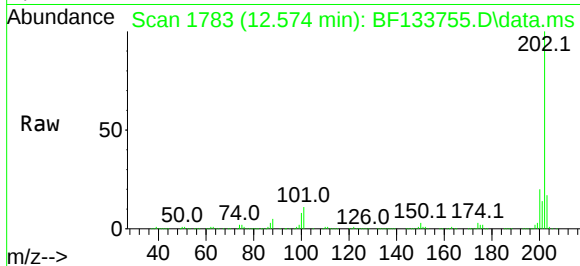
104 5.2 3.8 5.8





#75
Fluoranthene
Concen: 33.174 ng
RT: 12.574 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

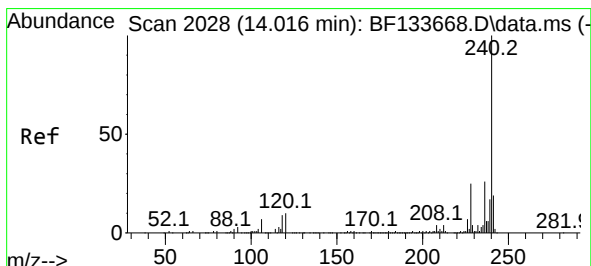
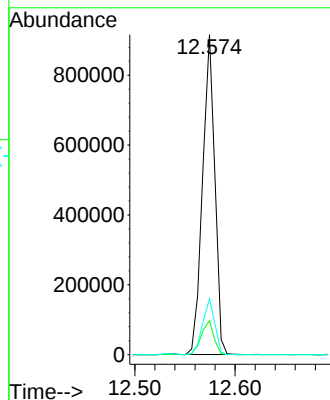
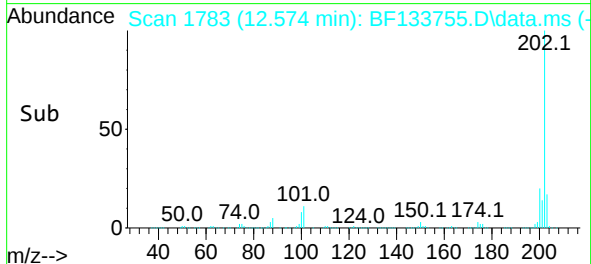
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



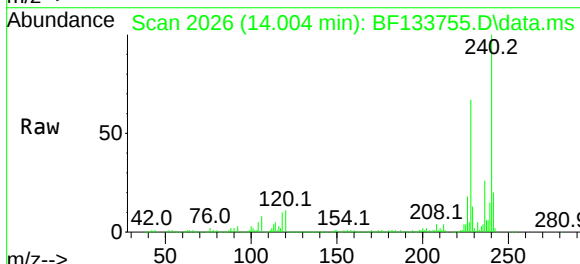
Tgt Ion:202 Resp: 78055
Ion Ratio Lower Upper
202 100
101 10.6 0.0 29.6
203 17.5 0.0 37.4

Manual Integrations
APPROVED

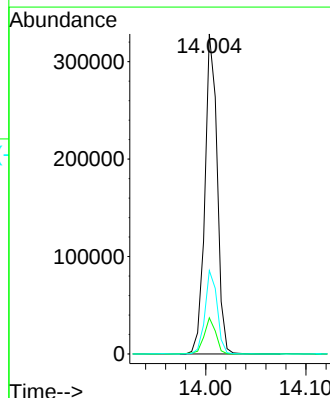
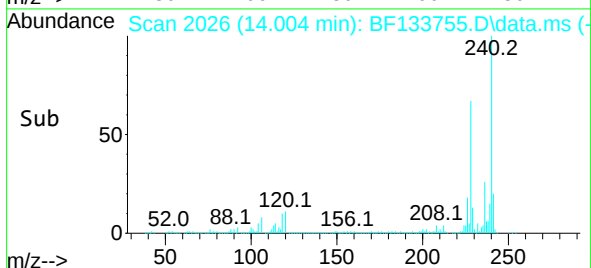
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

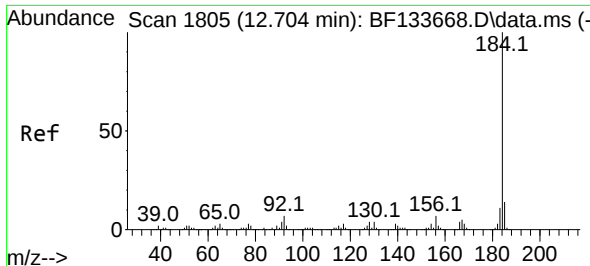


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



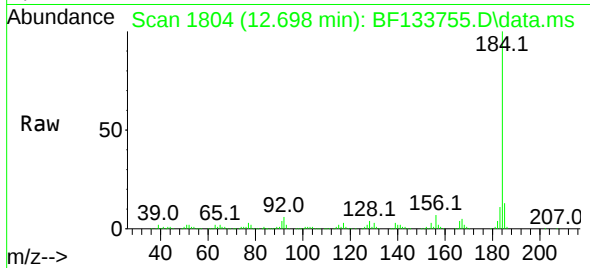
Tgt Ion:240 Resp: 280396
Ion Ratio Lower Upper
240 100
120 11.3 8.1 12.1
236 26.1 20.5 30.7





#77
Benzidine
Concen: 19.302 ng
RT: 12.698 min Scan# 1804
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

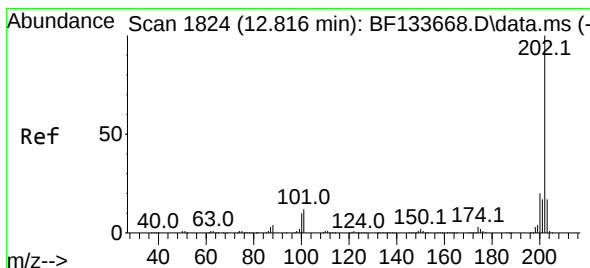
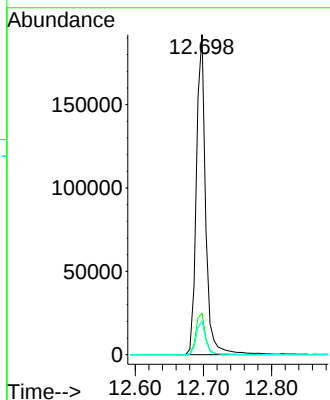
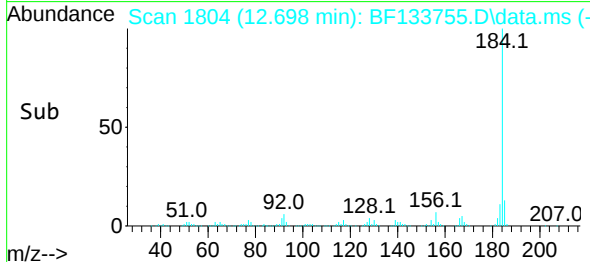
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



Tgt Ion:184 Resp: 181610
Ion Ratio Lower Upper
184 100
185 12.9 11.6 17.4
183 10.6 8.4 12.6

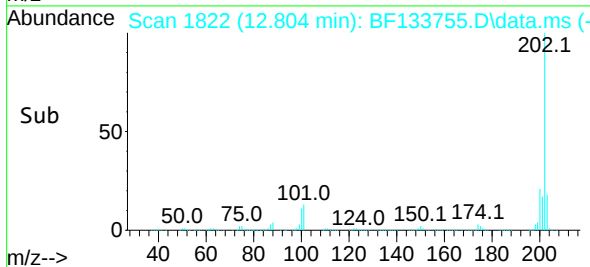
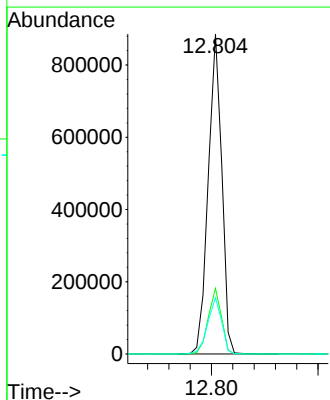
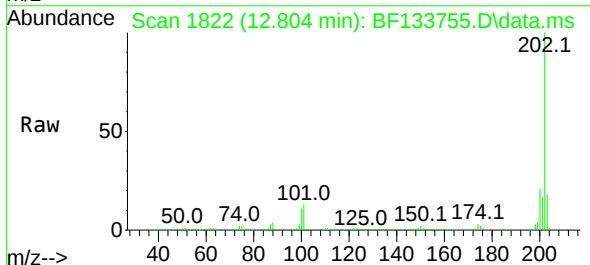
Manual Integrations
APPROVED

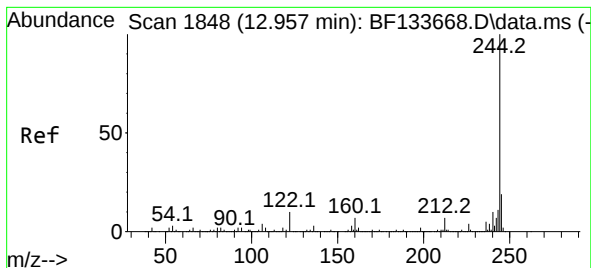
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#78
Pyrene
Concen: 29.918 ng
RT: 12.804 min Scan# 1822
Delta R.T. -0.006 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Tgt Ion:202 Resp: 781454
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.2
203 17.6 13.9 20.9





#79

Terphenyl-d14

Concen: 61.813 ng

RT: 12.951 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF133755.D

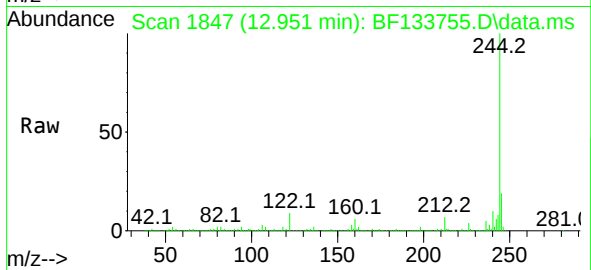
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion:244 Resp: 112011

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

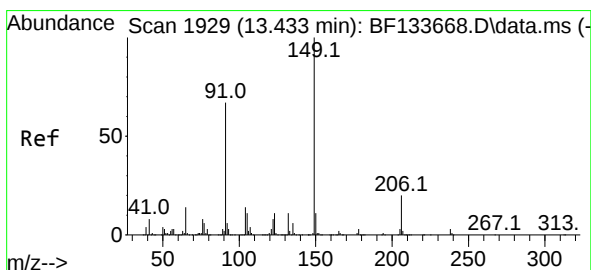
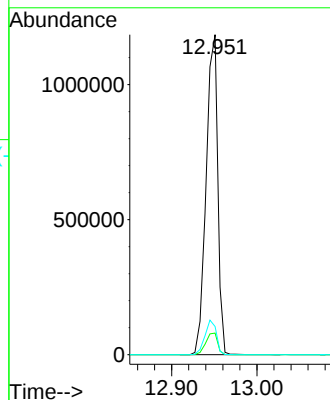
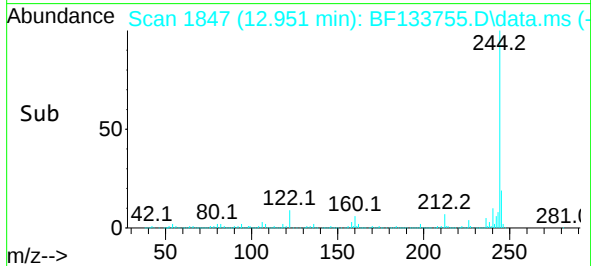
122 8.8 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#80

Butylbenzylphthalate

Concen: 31.811 ng

RT: 13.421 min Scan# 1927

Delta R.T. -0.006 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

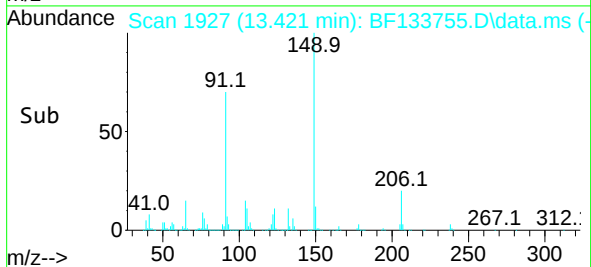
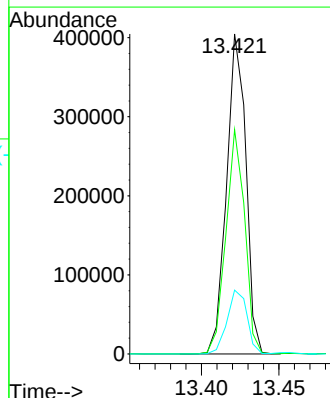
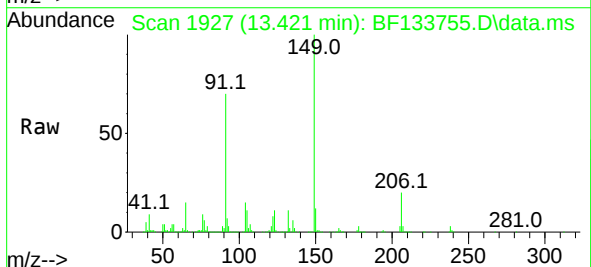
Tgt Ion:149 Resp: 350781

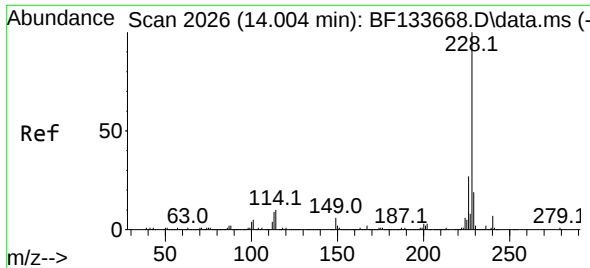
Ion Ratio Lower Upper

149 100

91 70.1 54.0 81.0

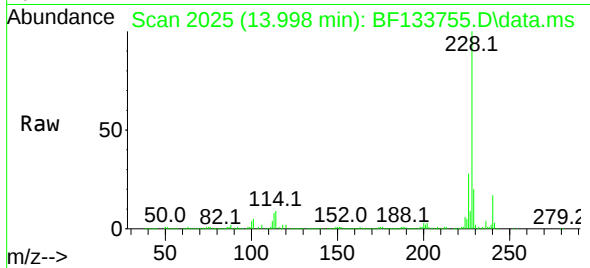
206 19.9 15.6 23.4





#81
Benzo(a)anthracene
Concen: 37.891 ng
RT: 13.998 min Scan# 2018
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

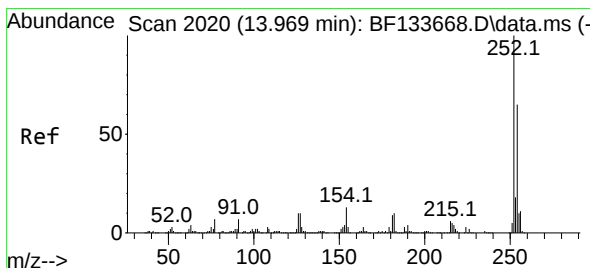
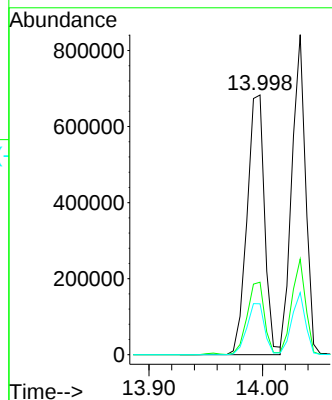
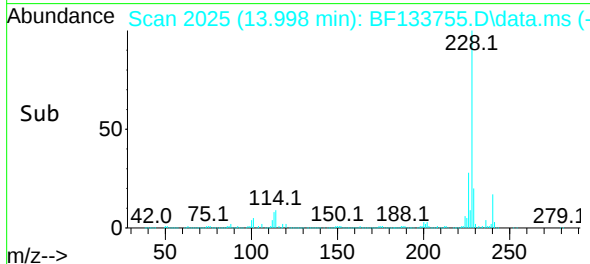
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS



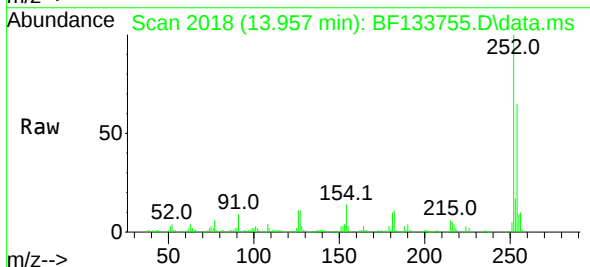
Tgt Ion:228 Resp: 734898
Ion Ratio Lower Upper
228 100
226 27.9 21.7 32.5
229 19.6 15.4 23.2

Manual Integrations
APPROVED

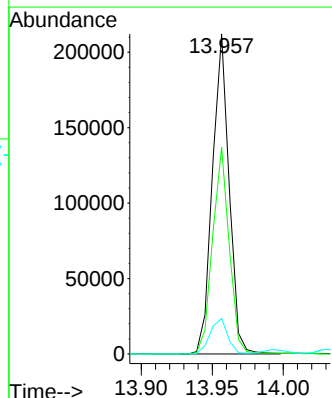
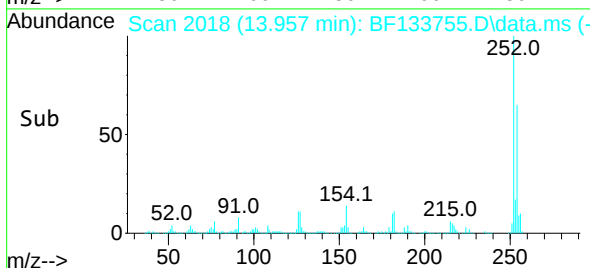
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023

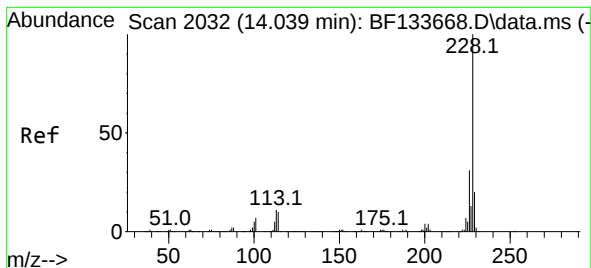


#82
3,3'-Dichlorobenzidine
Concen: 26.873 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13



Tgt Ion:252 Resp: 173277
Ion Ratio Lower Upper
252 100
254 64.7 51.9 77.9
126 11.1 7.7 11.5





#83

Chrysene

Concen: 38.413 ng

RT: 14.033 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF133755.D

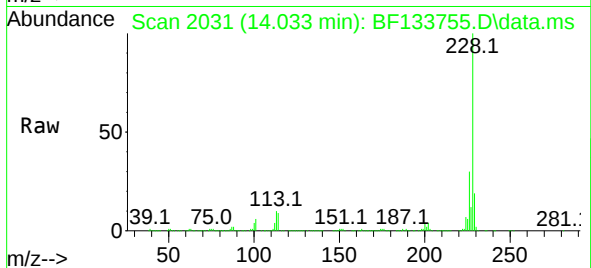
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion:228 Resp: 704667

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

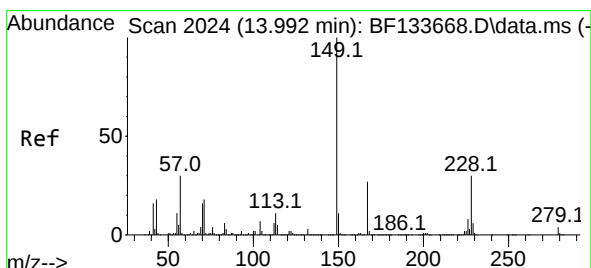
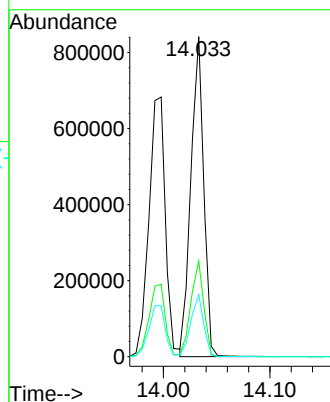
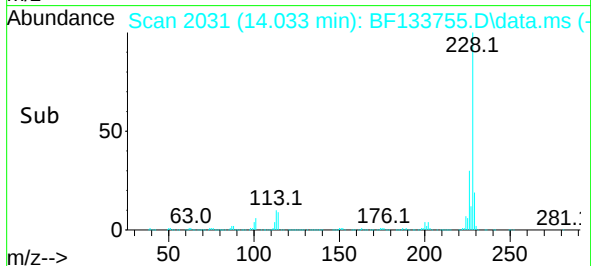
229 19.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 36.581 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

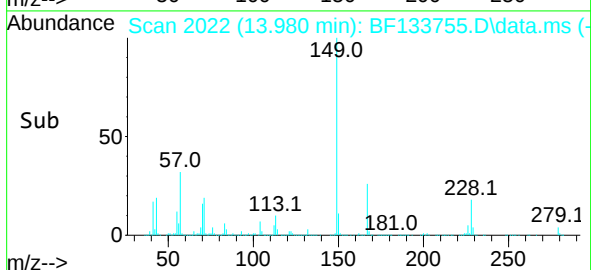
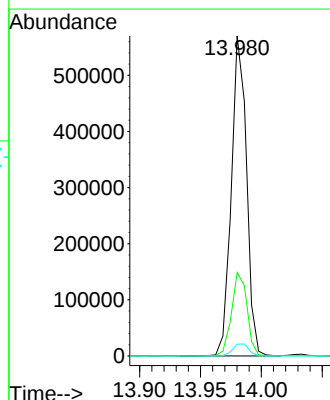
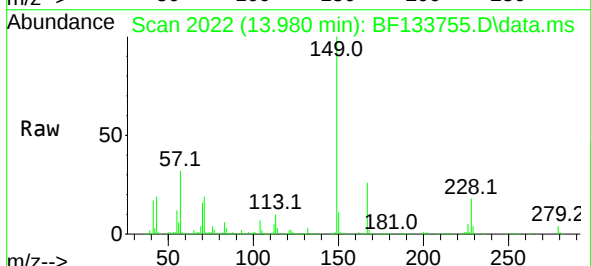
Tgt Ion:149 Resp: 496667

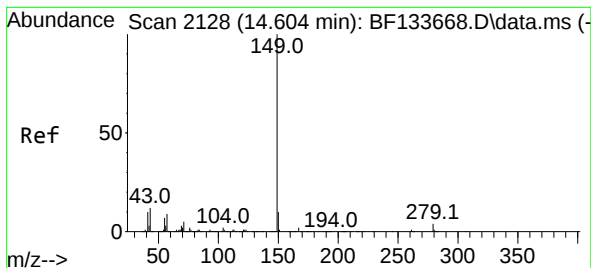
Ion Ratio Lower Upper

149 100

167 26.1 21.8 32.8

279 3.7 3.3 4.9





#85

Di-n-octyl phthalate

Concen: 47.487 ng

RT: 14.598 min Scan# 2127

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS

Tgt Ion:149 Resp: 916220

Ion Ratio Lower Upper

149 100

167 1.5 1.4 2.0

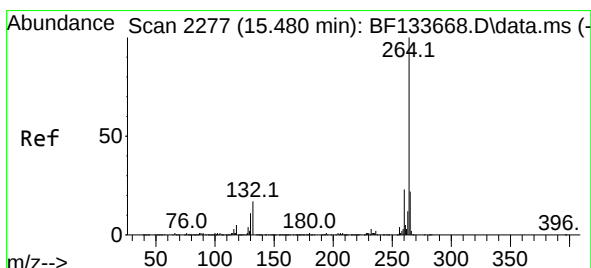
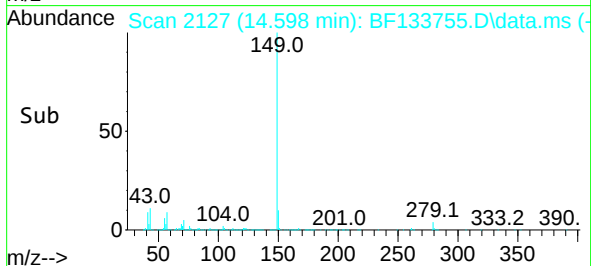
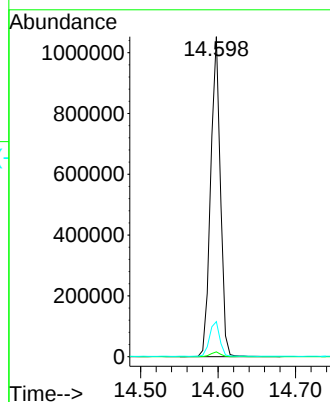
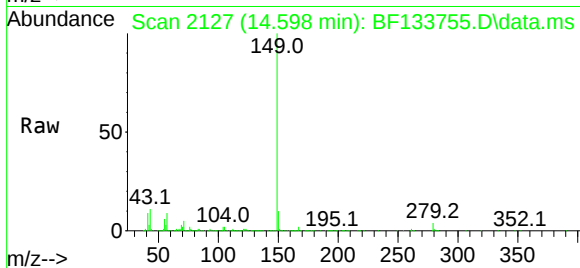
43 11.4 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

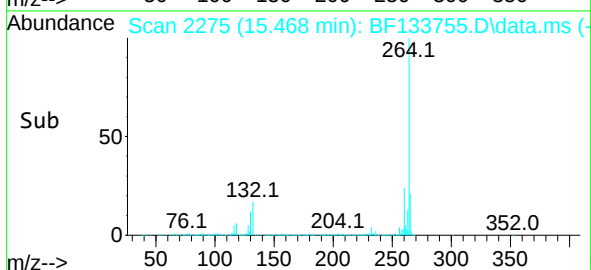
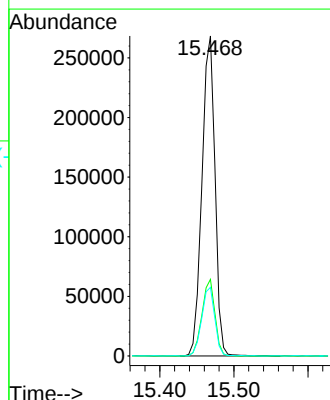
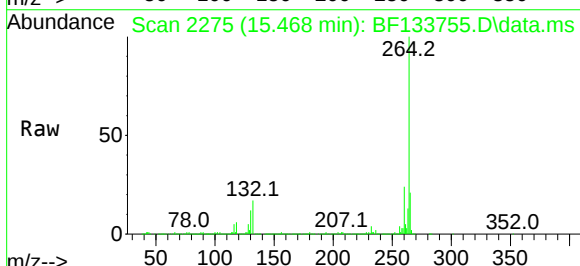
Tgt Ion:264 Resp: 328524

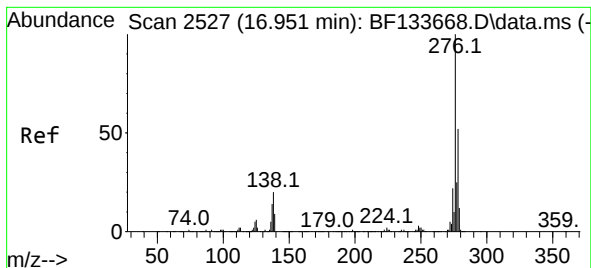
Ion Ratio Lower Upper

264 100

260 23.9 18.2 27.2

265 21.5 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 34.574 ng

RT: 16.933 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133755.D

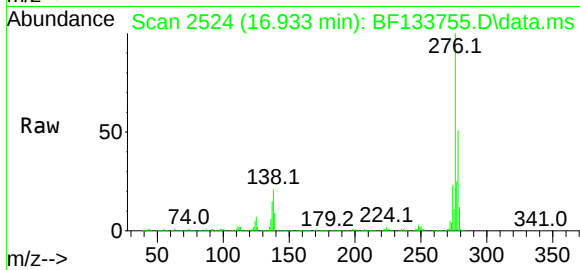
Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS



Tgt Ion: 276 Resp: 78142

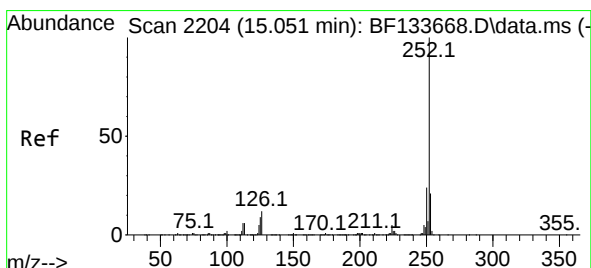
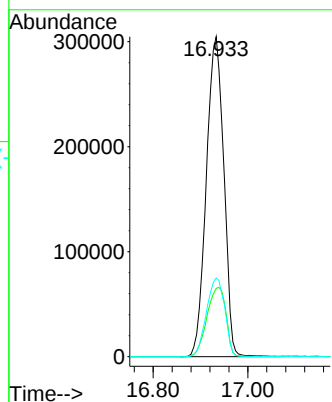
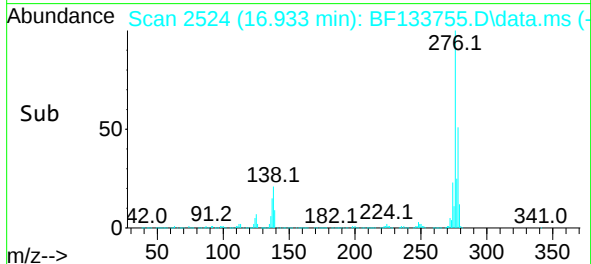
Ion	Ratio	Lower	Upper
276	100		
138	23.7	17.9	26.9
277	25.6	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#88

Benzo(b)fluoranthene

Concen: 41.311 ng

RT: 15.045 min Scan# 2203

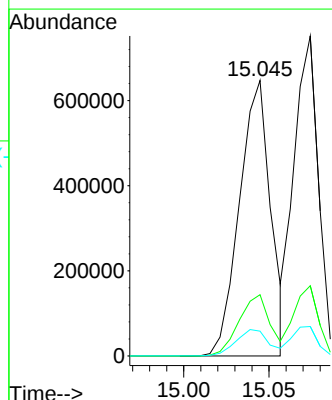
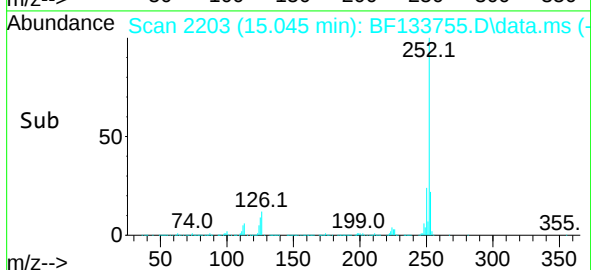
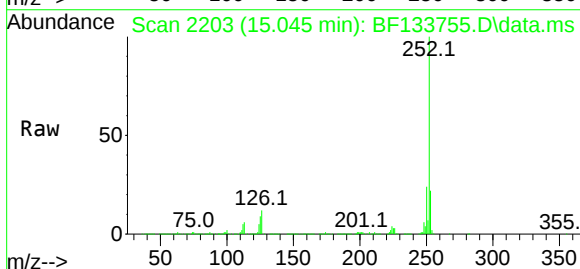
Delta R.T. -0.000 min

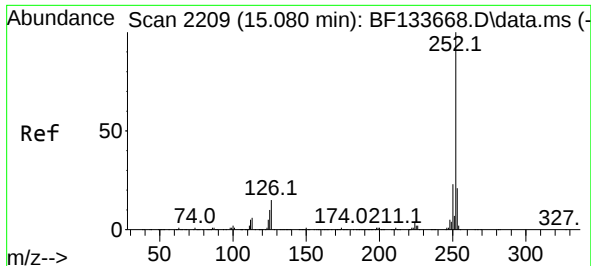
Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Tgt Ion: 252 Resp: 824429

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	9.0	7.3	10.9





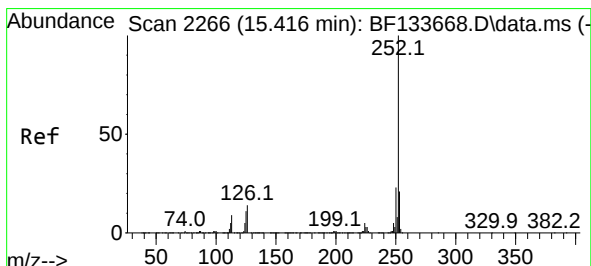
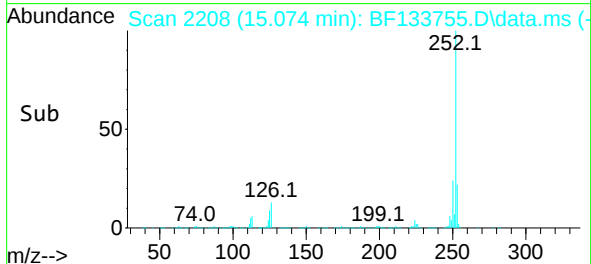
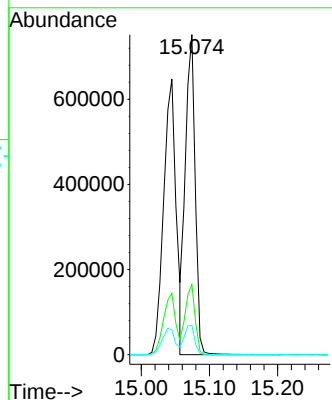
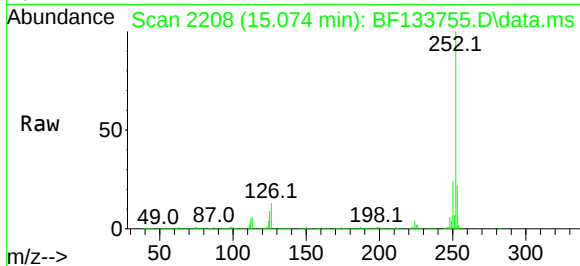
#89
Benzo(k)fluoranthene
Concen: 38.705 ng
RT: 15.074 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609MS

Tgt Ion:252 Resp: 752415
Ion Ratio Lower Upper
252 100
253 22.0 17.0 25.4
125 9.2 7.8 11.6

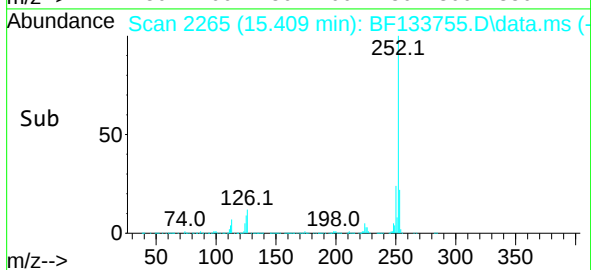
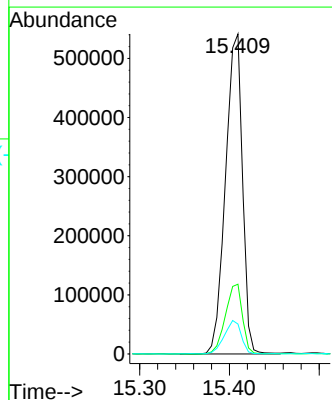
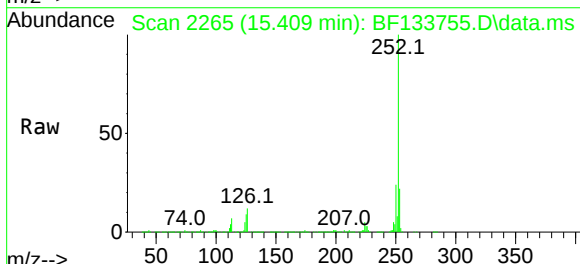
Manual Integrations
APPROVED

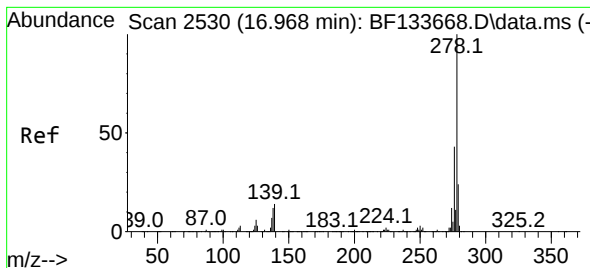
Reviewed By :Yogesh Patel 06/15/2023
Supervised By :mohammad ahmed 06/16/2023



#90
Benzo(a)pyrene
Concen: 38.378 ng
RT: 15.409 min Scan# 2265
Delta R.T. -0.000 min
Lab File: BF133755.D
Acq: 14 Jun 2023 17:13

Tgt Ion:252 Resp: 710800
Ion Ratio Lower Upper
252 100
253 21.8 17.1 25.7
125 9.4 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 35.115 ng

RT: 16.951 min Scan# 2527

Delta R.T. -0.000 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609MS

Tgt Ion:278 Resp: 657050

Ion Ratio Lower Upper

278 100

139 15.1 11.4 17.2

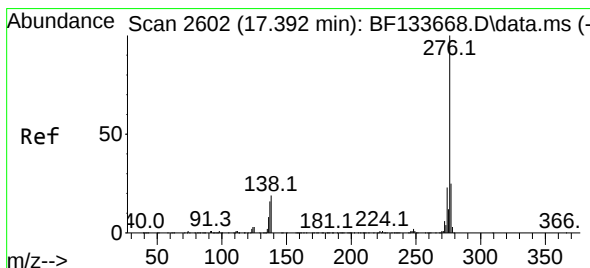
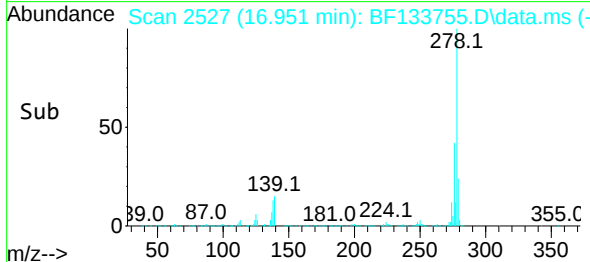
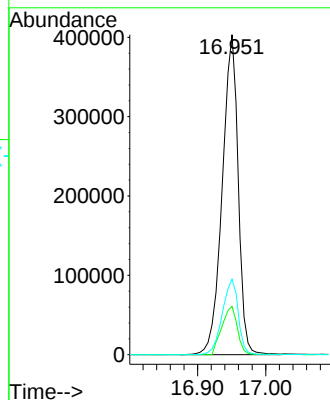
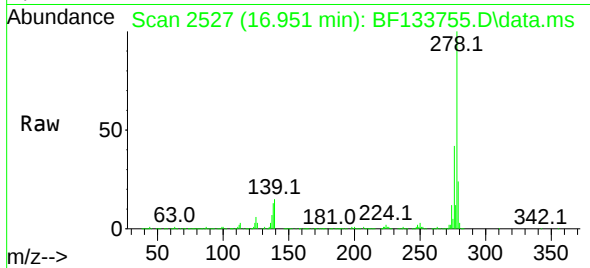
279 23.6 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/15/2023

Supervised By :mohammad ahmed 06/16/2023



#92

Benzo(g,h,i)perylene

Concen: 31.042 ng

RT: 17.374 min Scan# 2599

Delta R.T. -0.006 min

Lab File: BF133755.D

Acq: 14 Jun 2023 17:13

Tgt Ion:276 Resp: 575892

Ion Ratio Lower Upper

276 100

277 25.1 19.8 29.8

138 21.4 15.0 22.4

