

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071823\
 Data File : VD076771.D
 Acq On : 18 Jul 2023 12:00
 Operator : KP/SY
 Sample : 03572-03
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023

Quant Time: Jul 19 08:16:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 19 08:14:54 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/19/2023
 Supervised By : Mahesh Dadoda 07/19/2023

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	174424	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	315832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	281712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	126990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	82845	47.686	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.380%		
35) Dibromofluoromethane	7.810	113	98447	49.603	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.200%		
50) Toluene-d8	10.269	98	326707	46.015	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.020%		
62) 4-Bromofluorobenzene	12.575	95	105059	45.740	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	91.480%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.928	85	6964	5.106	ug/l	95
3) Chloromethane	2.146	50	10856	4.614	ug/l	98
4) Vinyl Chloride	2.275	62	15822	5.045	ug/l #	86
5) Bromomethane	2.687	94	13958	5.409	ug/l	99
6) Chloroethane	2.828	64	11609	4.902	ug/l	98
7) Trichlorofluoromethane	3.170	101	13972	5.006	ug/l	91
8) Diethyl Ether	3.599	74	4354	4.531	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.958	101	9581	5.223	ug/l	97
10) Methyl Iodide	4.158	142	8487	4.104	ug/l	91
11) Tert butyl alcohol	5.046	59	3208m	24.745	ug/l	
12) 1,1-Dichloroethene	3.934	96	8878	5.151	ug/l #	91
13) Acrolein	3.781	56	1849	20.929	ug/l	88
14) Allyl chloride	4.552	41	10082	4.453	ug/l	93
15) Acrylonitrile	5.246	53	9430	19.981	ug/l #	88
16) Acetone	4.022	43	8630	20.800	ug/l #	81
17) Carbon Disulfide	4.264	76	17227	4.279	ug/l	98
18) Methyl Acetate	4.569	43	6902	4.428	ug/l #	42
19) Methyl tert-butyl Ether	5.316	73	19581	4.236	ug/l	91
20) Methylene Chloride	4.805	84	22463	6.546	ug/l #	96
21) trans-1,2-Dichloroethene	5.305	96	8999	4.492	ug/l	83
22) Diisopropyl ether	6.216	45	22621	4.219	ug/l	96
23) Vinyl Acetate	6.158	43	54184	20.425	ug/l #	84
24) 1,1-Dichloroethane	6.105	63	17596	4.868	ug/l	96
25) 2-Butanone	7.075	43	14427	25.981	ug/l	88
26) 2,2-Dichloropropane	7.081	77	18174	5.832	ug/l	81
27) cis-1,2-Dichloroethene	7.069	96	11144	4.512	ug/l	83
28) Bromochloromethane	7.422	49	3638	4.025	ug/l #	81
29) Tetrahydrofuran	7.440	42	6458	19.684	ug/l	98
30) Chloroform	7.593	83	18578	4.692	ug/l	86
31) Cyclohexane	7.881	56	14884	5.821	ug/l #	93
32) 1,1,1-Trichloroethane	7.799	97	16297	5.102	ug/l	97
36) 1,1-Dichloropropene	7.999	75	13362	5.152	ug/l	92
37) Ethyl Acetate	7.169	43	5359	4.621	ug/l #	92
38) Carbon Tetrachloride	7.987	117	10816	4.355	ug/l	99
39) Methylcyclohexane	9.269	83	13964	4.663	ug/l	98
40) Benzene	8.246	78	38688	4.728	ug/l	98

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Manual Integrations
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Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.405	41	3175	4.483	ug/l #	76
42) 1,2-Dichloroethane	8.322	62	9703	4.564	ug/l	97
43) Isopropyl Acetate	8.357	43	9372	4.140	ug/l #	76
44) Trichloroethene	9.022	130	10881	4.880	ug/l	83
45) 1,2-Dichloropropane	9.299	63	10224	4.840	ug/l	99
46) Dibromomethane	9.399	93	6086	4.922	ug/l	84
47) Bromodichloromethane	9.581	83	15112	4.870	ug/l #	97
48) Methyl methacrylate	9.381	41	3861	3.748	ug/l #	75
49) 1,4-Dioxane	9.381	88	1383	87.303	ug/l #	83
51) 4-Methyl-2-Pentanone	10.157	43	25155	20.873	ug/l	92
52) Toluene	10.334	92	24950	4.642	ug/l	96
53) t-1,3-Dichloropropene	10.552	75	12087	4.197	ug/l	90
54) cis-1,3-Dichloropropene	10.022	75	14988	4.416	ug/l	95
55) 1,1,2-Trichloroethane	10.740	97	8282	4.587	ug/l #	89
56) Ethyl methacrylate	10.599	69	8630	4.141	ug/l #	87
57) 1,3-Dichloropropane	10.875	76	12013	4.086	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.869	63	16268	20.168	ug/l	96
59) 2-Hexanone	10.922	43	16395	19.065	ug/l	90
60) Dibromochloromethane	11.075	129	9193	4.383	ug/l	97
61) 1,2-Dibromoethane	11.181	107	7840	4.684	ug/l	92
64) Tetrachloroethene	10.804	164	8160	5.080	ug/l	93
65) Chlorobenzene	11.610	112	26817	4.733	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.687	131	9885	4.686	ug/l	97
67) Ethyl Benzene	11.681	91	44138	4.436	ug/l	98
68) m/p-Xylenes	11.793	106	32737	8.567	ug/l	86
69) o-Xylene	12.122	106	15516	4.199	ug/l	86
70) Styrene	12.134	104	25430	3.931	ug/l	90
71) Bromoform	12.304	173	4973	4.305	ug/l #	96
73) Isopropylbenzene	12.422	105	42747	4.640	ug/l	96
74) N-amyl acetate	12.234	43	8135	4.191	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.675	83	9540	4.823	ug/l	99
76) 1,2,3-Trichloropropane	12.728	75	7081m	5.863	ug/l	
77) Bromobenzene	12.698	156	9954	4.681	ug/l	84
78) n-propylbenzene	12.763	91	56051	5.018	ug/l	94
79) 2-Chlorotoluene	12.845	91	28805	4.703	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	33867	4.546	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.469	75	2338	4.120	ug/l	94
82) 4-Chlorotoluene	12.945	91	29941	4.680	ug/l	97
83) tert-Butylbenzene	13.169	119	30836	4.701	ug/l	96
84) 1,2,4-Trimethylbenzene	13.210	105	33988	4.464	ug/l	97
85) sec-Butylbenzene	13.345	105	46933	4.683	ug/l	95
86) p-Isopropyltoluene	13.457	119	37337	4.511	ug/l	96
87) 1,3-Dichlorobenzene	13.463	146	20744	4.742	ug/l	98
88) 1,4-Dichlorobenzene	13.540	146	21139	4.933	ug/l	92
89) n-Butylbenzene	13.787	91	37210	4.594	ug/l	97
90) Hexachloroethane	14.051	117	7631	4.987	ug/l	93
91) 1,2-Dichlorobenzene	13.828	146	18761	4.867	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.434	75	1465	5.194	ug/l	85
93) 1,2,4-Trichlorobenzene	15.098	180	10556	4.486	ug/l	98
94) Hexachlorobutadiene	15.204	225	5626	4.971	ug/l	95
95) Naphthalene	15.334	128	21122	4.146	ug/l	98
96) 1,2,3-Trichlorobenzene	15.522	180	9482	4.490	ug/l	95

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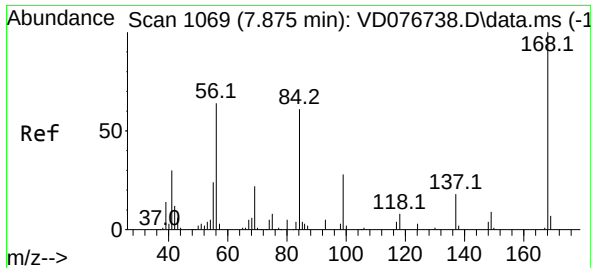
Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Wed Jul 19 08:14:54 2023
Response via : Initial Calibration

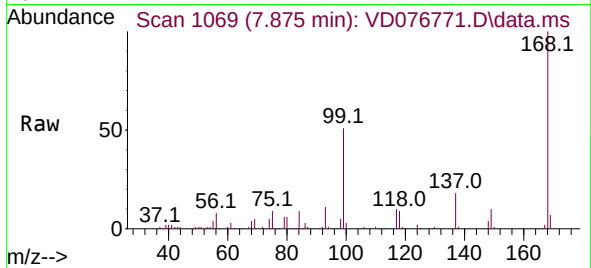
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

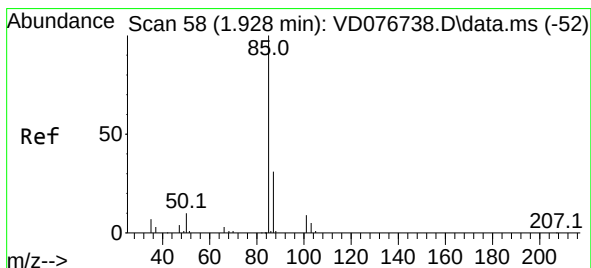
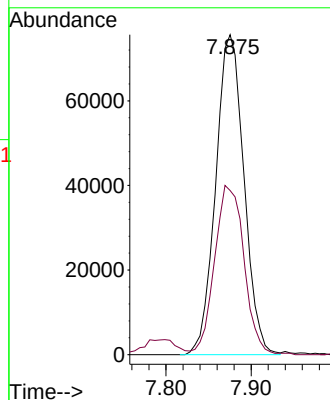
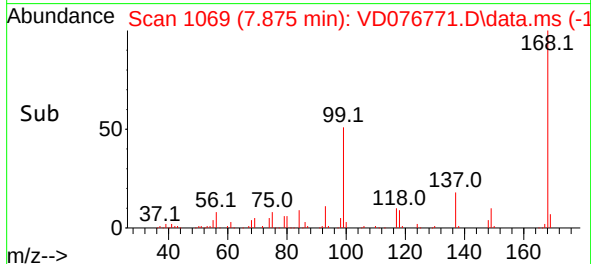
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:168 Resp: 174424
Ion Ratio Lower Upper
168 100
99 50.8 36.7 55.1

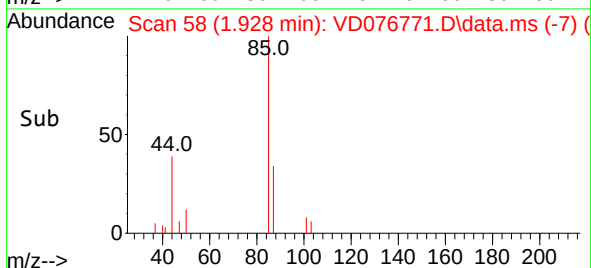
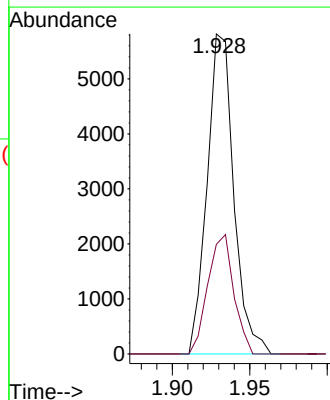
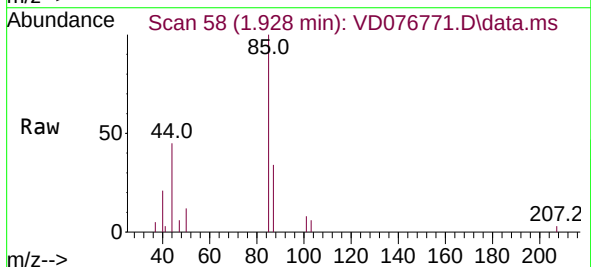
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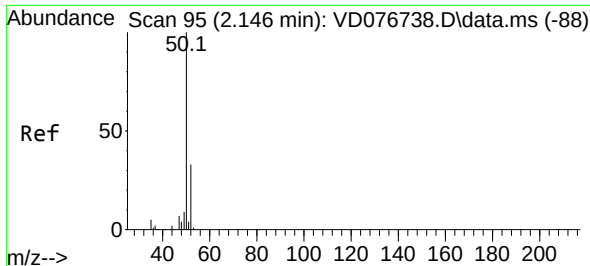
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#2
Dichlorodifluoromethane
Concen: 5.106 ug/l
RT: 1.928 min Scan# 58
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

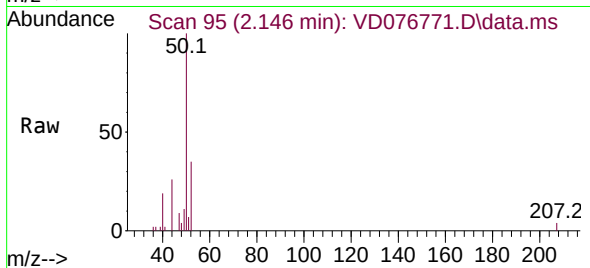
Tgt Ion: 85 Resp: 6964
Ion Ratio Lower Upper
85 100
87 34.3 15.7 47.0





#3
Chloromethane
Concen: 4.614 ug/l
RT: 2.146 min Scan# 95
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

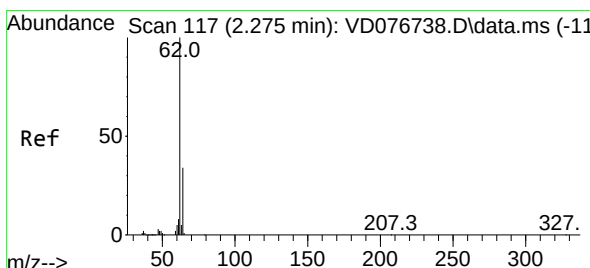
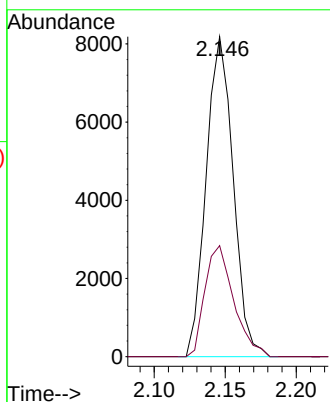
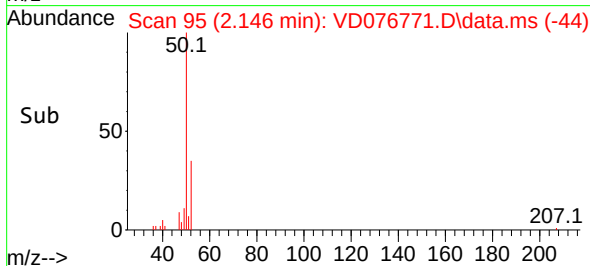
Instrument :
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Tgt Ion: 50 Resp: 10850
Ion Ratio Lower Upper
50 100
52 34.7 26.6 40.0

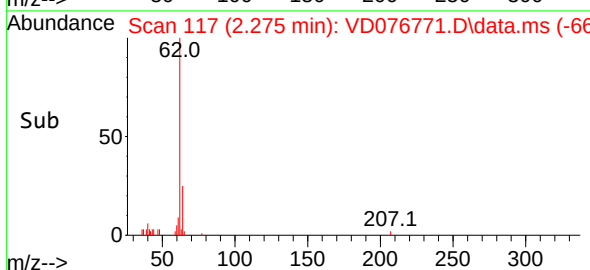
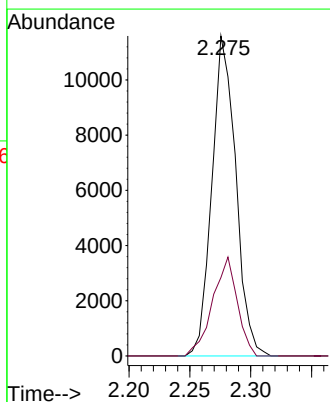
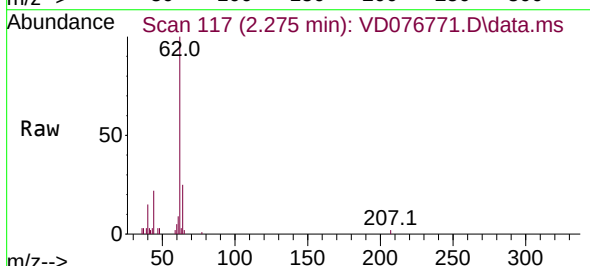
Manual Integrations
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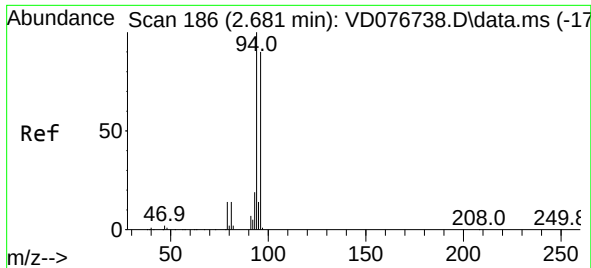
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#4
Vinyl Chloride
Concen: 5.045 ug/l
RT: 2.275 min Scan# 117
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

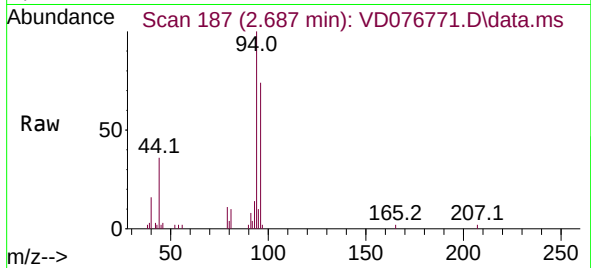
Tgt Ion: 62 Resp: 15822
Ion Ratio Lower Upper
62 100
64 24.5 26.0 39.0





#5
Bromomethane
Concen: 5.409 ug/l
RT: 2.687 min Scan# 186
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

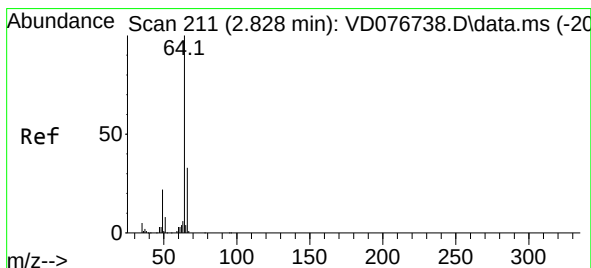
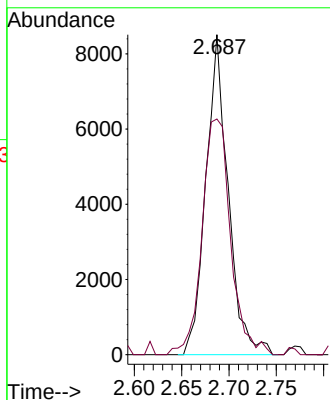
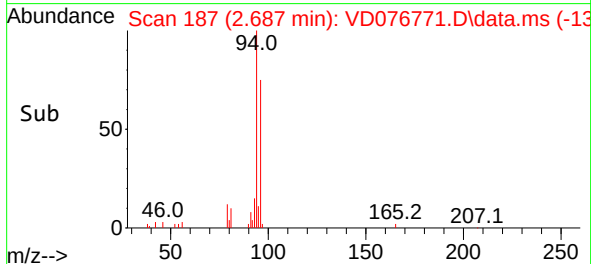
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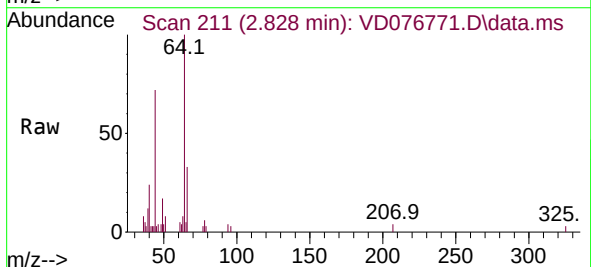
Tgt Ion: 94 Resp: 13958
Ion Ratio Lower Upper
94 100
96 94.0 75.8 113.8

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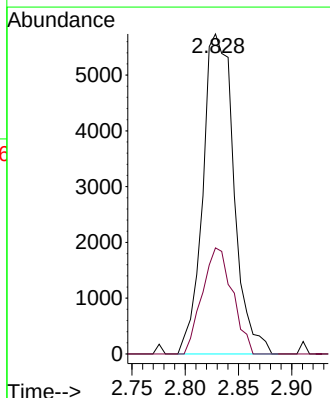
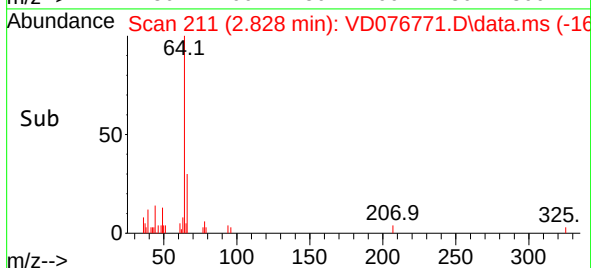
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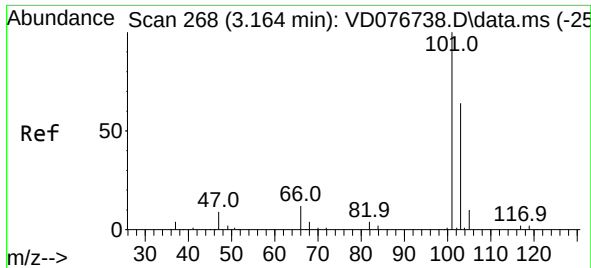


#6
Chloroethane
Concen: 4.902 ug/l
RT: 2.828 min Scan# 211
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



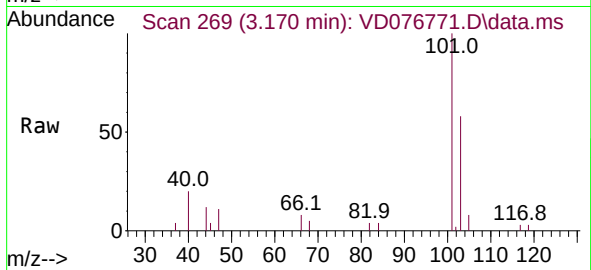
Tgt Ion: 64 Resp: 11609
Ion Ratio Lower Upper
64 100
66 33.1 25.5 38.3





#7
Trichlorofluoromethane
Concen: 5.006 ug/l
RT: 3.170 min Scan# 201
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

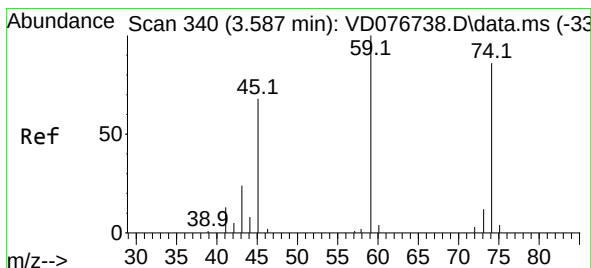
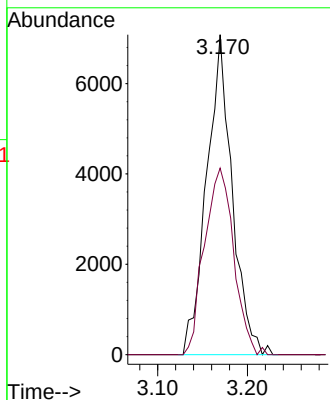
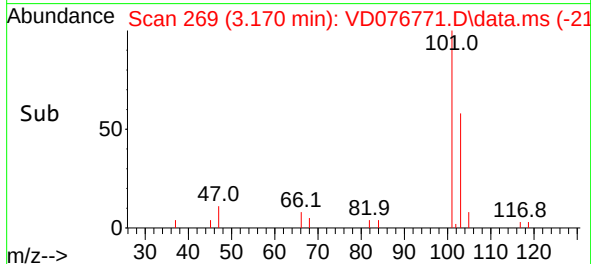
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:101 Resp: 13972
Ion Ratio Lower Upper
101 100
103 58.3 52.3 78.5

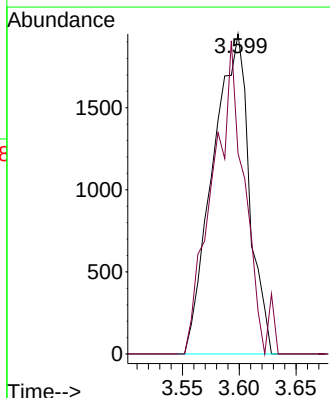
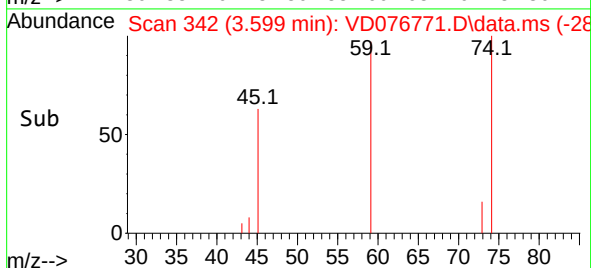
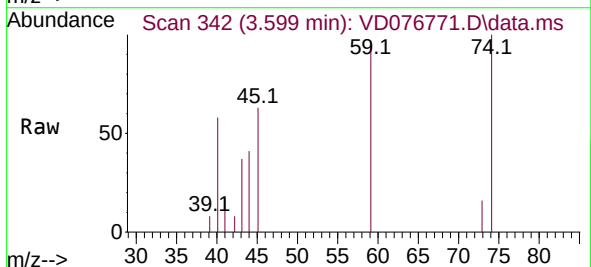
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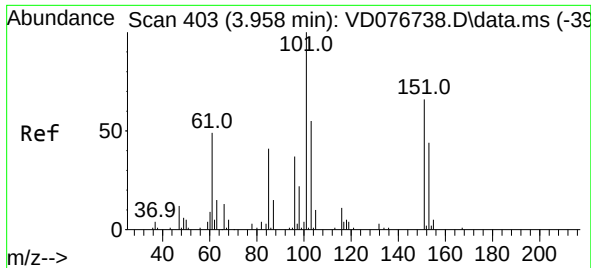
Reviewed By :John Carlone 07/19/2023
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#8
Diethyl Ether
Concen: 4.531 ug/l
RT: 3.599 min Scan# 342
Delta R.T. 0.012 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 74 Resp: 4354
Ion Ratio Lower Upper
74 100
45 83.1 37.5 112.7





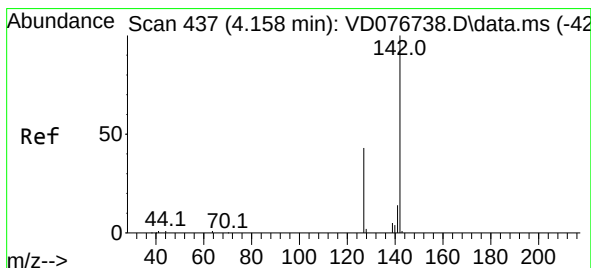
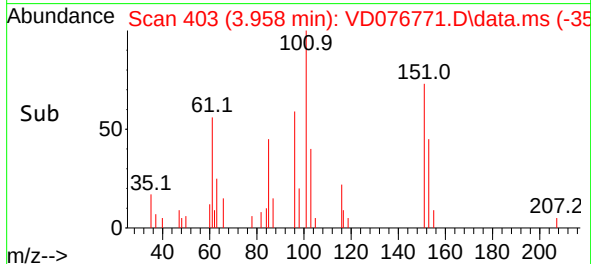
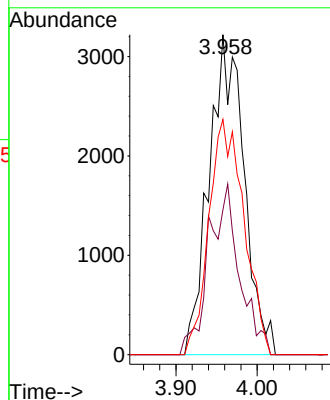
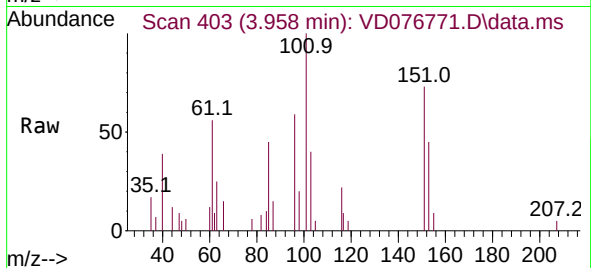
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.223 ug/l
RT: 3.958 min Scan# 403
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:101 Resp: 958
Ion Ratio Lower Upper
101 100
85 47.5 33.8 50.6
151 74.3 59.8 89.6

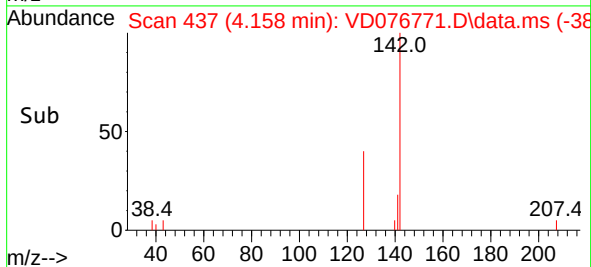
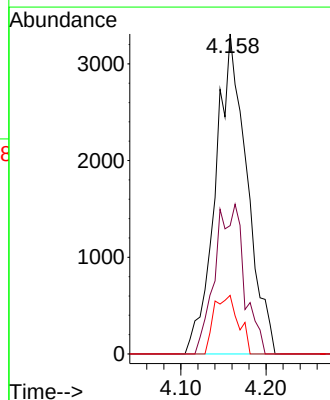
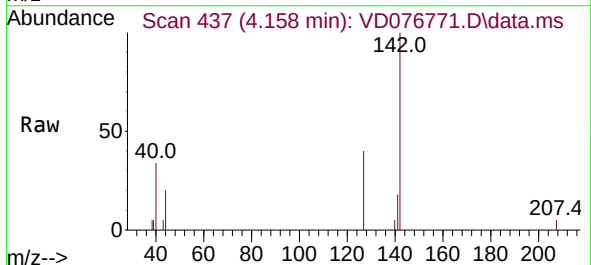
Manual Integrations
APPROVED

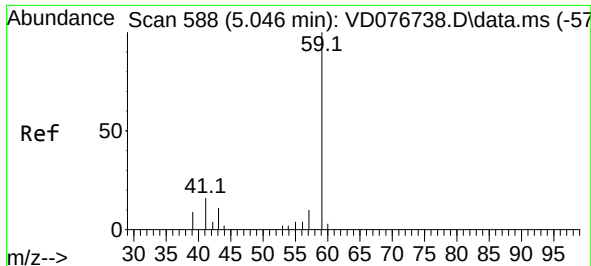
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#10
Methyl Iodide
Concen: 4.104 ug/l
RT: 4.158 min Scan# 437
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

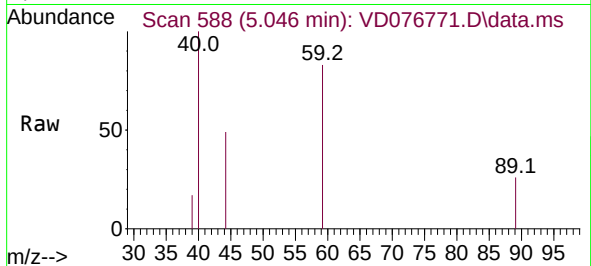
Tgt Ion:142 Resp: 8487
Ion Ratio Lower Upper
142 100
127 43.6 29.4 44.0
141 14.2 11.1 16.7





#11
Tert butyl alcohol
Concen: 24.745 ug/l m
RT: 5.046 min Scan# 588
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

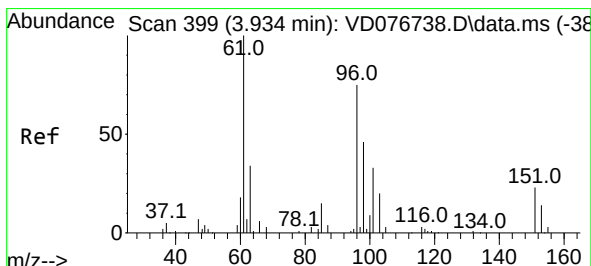
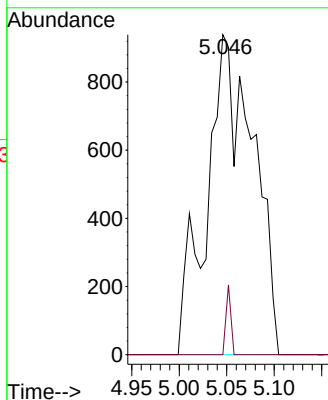
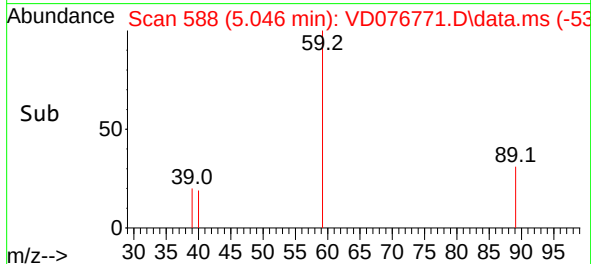
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



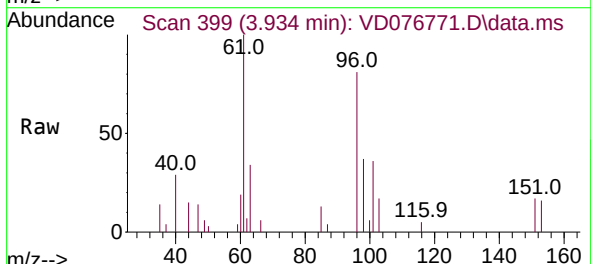
Tgt Ion: 59 Resp: 3208
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8

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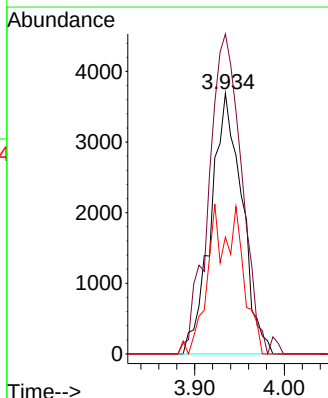
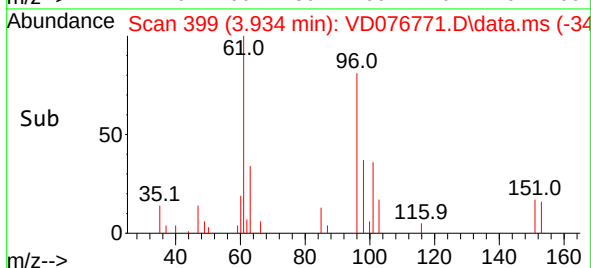
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

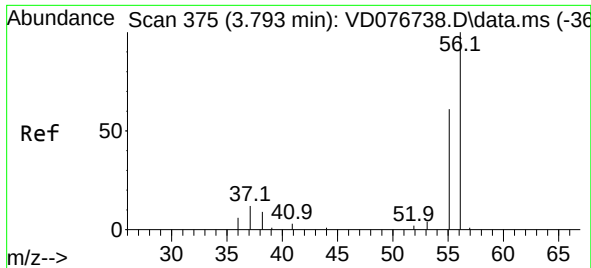


#12
1,1-Dichloroethene
Concen: 5.151 ug/l
RT: 3.934 min Scan# 399
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



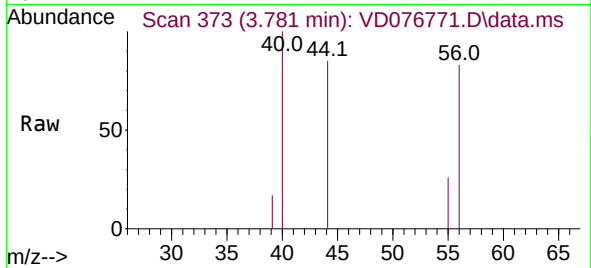
Tgt Ion: 96 Resp: 8878
Ion Ratio Lower Upper
96 100
61 122.8 100.6 150.8
98 44.9 50.2 75.2





#13
Acrolein
Concen: 20.929 ug/l
RT: 3.781 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

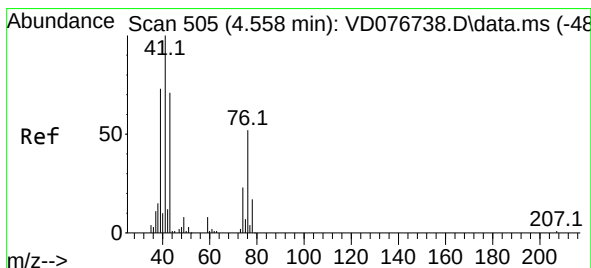
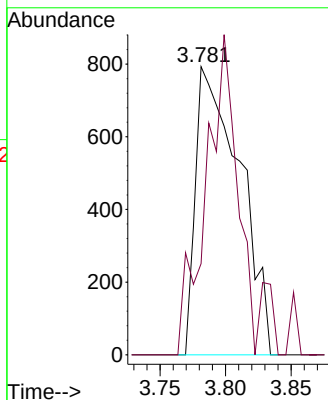
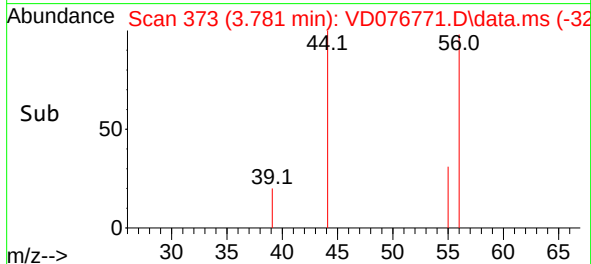
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



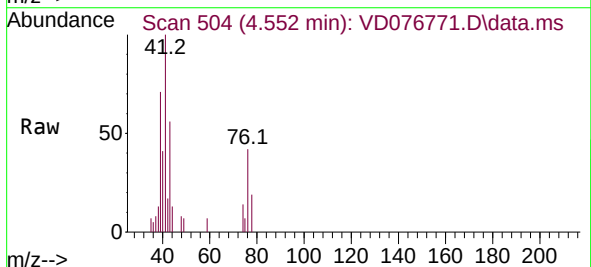
Tgt Ion: 56 Resp: 1849
Ion Ratio Lower Upper
56 100
55 78.9 55.1 82.7

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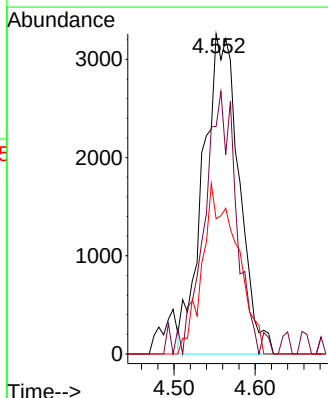
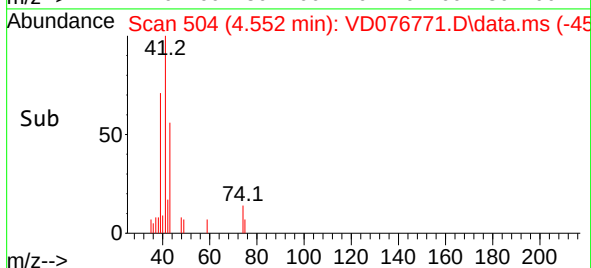
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

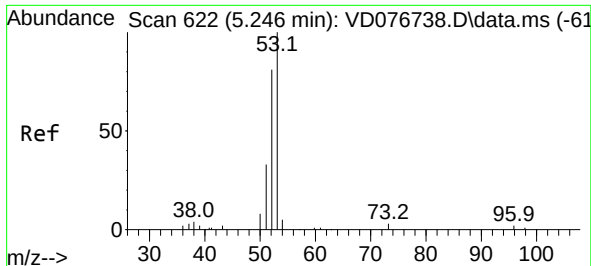


#14
Allyl chloride
Concen: 4.453 ug/l
RT: 4.552 min Scan# 504
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



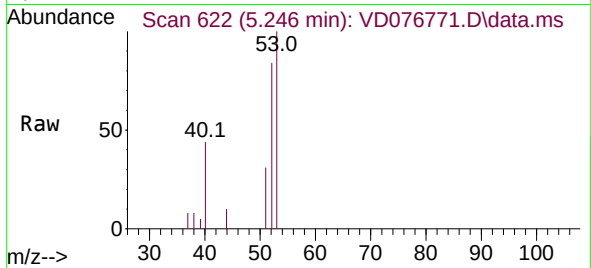
Tgt Ion: 41 Resp: 10082
Ion Ratio Lower Upper
41 100
39 71.6 53.8 80.6
76 51.1 45.8 68.8





#15
Acrylonitrile
Concen: 19.981 ug/l
RT: 5.246 min Scan# 61
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

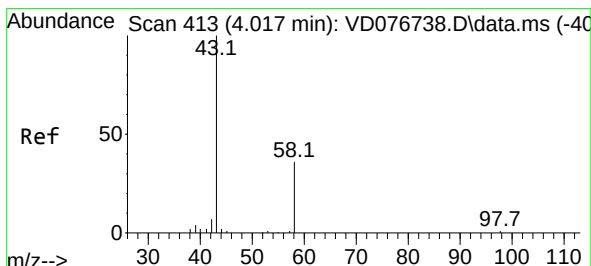
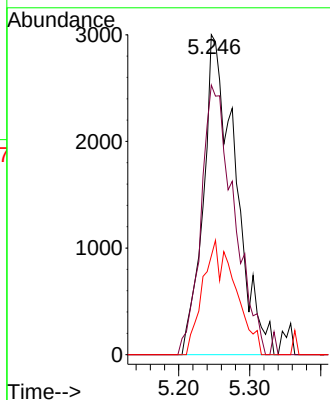
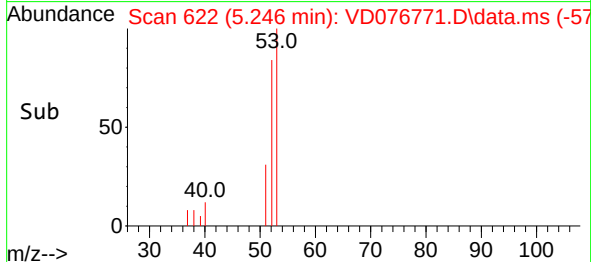
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 53 Resp: 9430
Ion Ratio Lower Upper
53 100
52 86.1 65.0 97.4
51 19.1 28.3 42.5

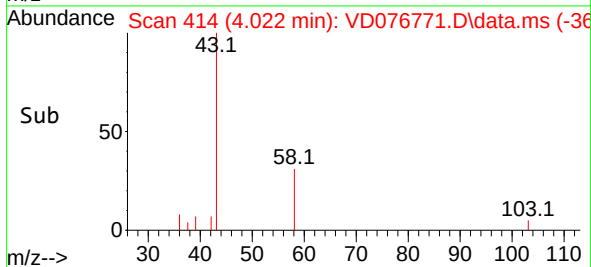
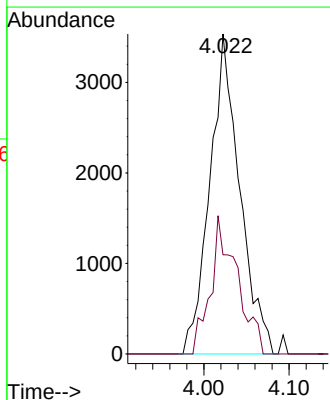
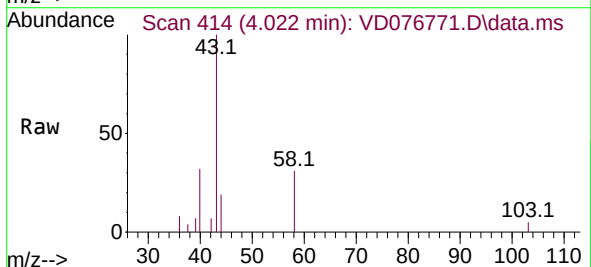
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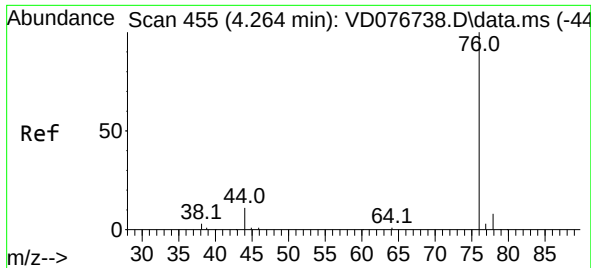
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#16
Acetone
Concen: 20.800 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.005 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

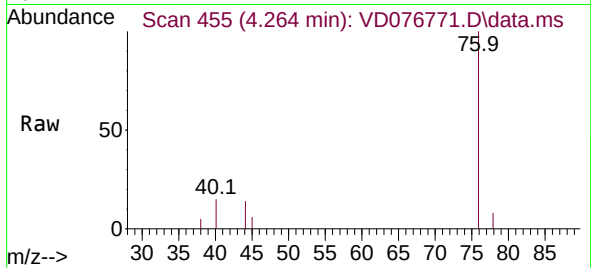
Tgt Ion: 43 Resp: 8630
Ion Ratio Lower Upper
43 100
58 31.0 34.7 52.1





#17
Carbon Disulfide
Concen: 4.279 ug/l
RT: 4.264 min Scan# 41
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

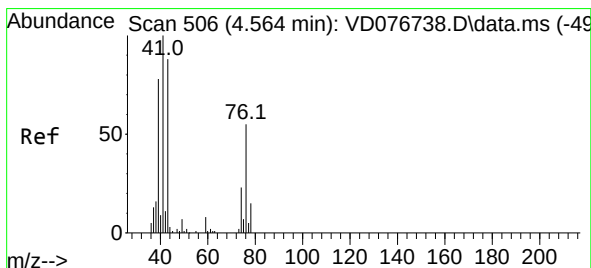
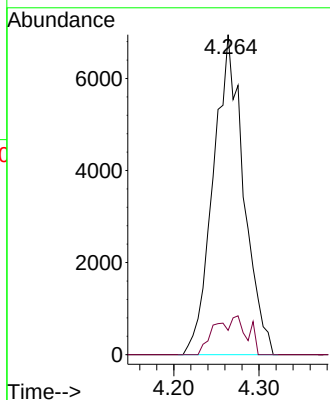
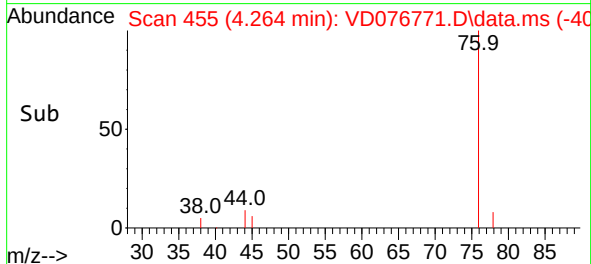
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 76 Resp: 1722
Ion Ratio Lower Upper
76 100
78 7.6 6.8 10.2

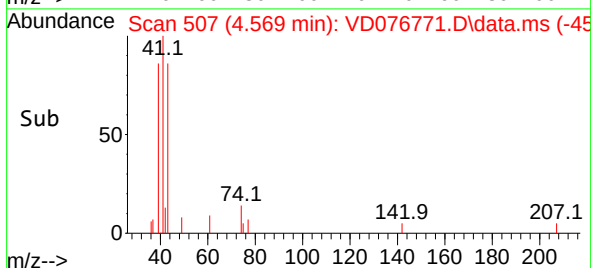
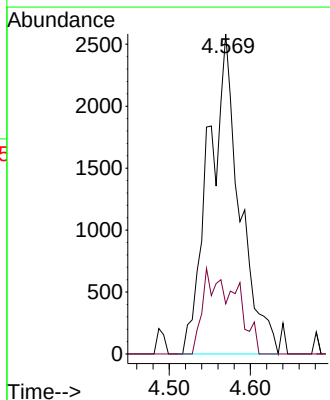
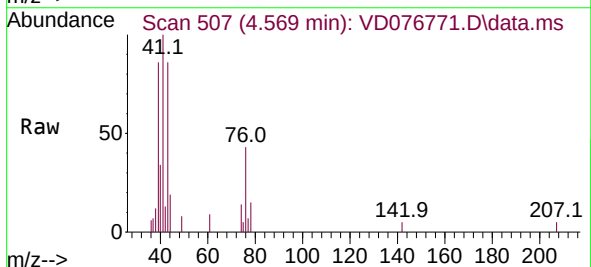
Manual Integrations
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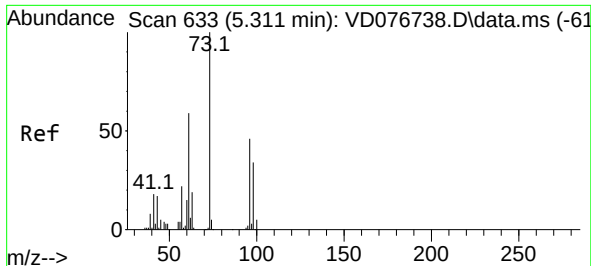
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#18
Methyl Acetate
Concen: 4.428 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.005 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 43 Resp: 6902
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#





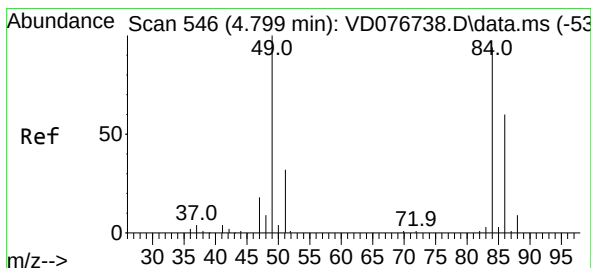
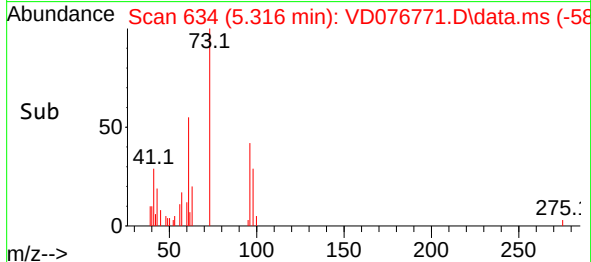
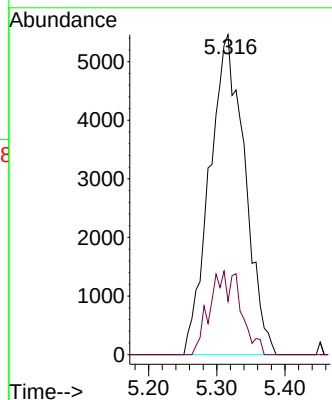
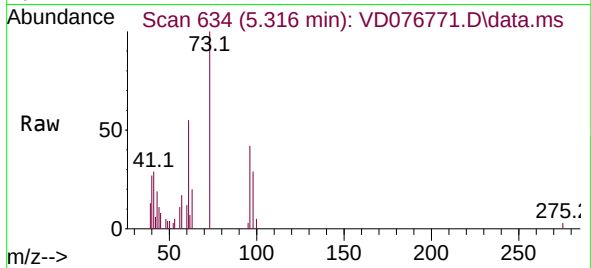
#19
Methyl tert-butyl Ether
Concen: 4.236 ug/l
RT: 5.316 min Scan# 61
Delta R.T. 0.005 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 73 Resp: 1958
Ion Ratio Lower Upper
73 100
57 16.7 16.6 25.0

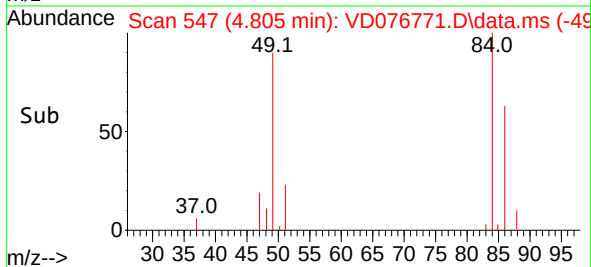
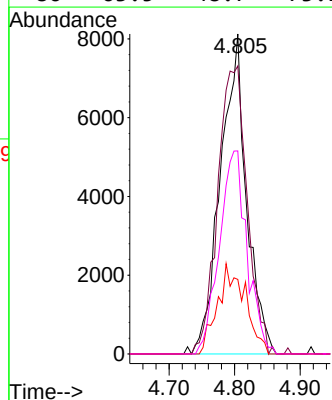
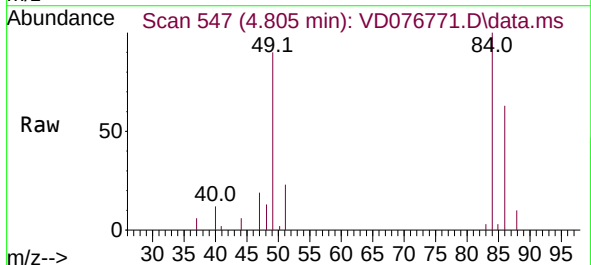
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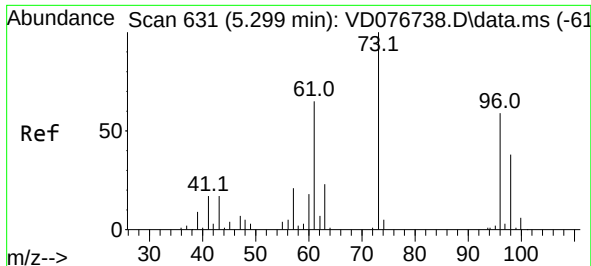
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#20
Methylene Chloride
Concen: 6.546 ug/l
RT: 4.805 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

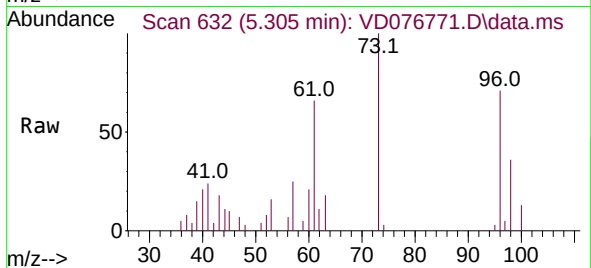
Tgt Ion: 84 Resp: 22463
Ion Ratio Lower Upper
84 100
49 90.0 71.4 107.2
51 23.3 24.5 36.7#
86 63.5 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 4.492 ug/l
RT: 5.305 min Scan# 61
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

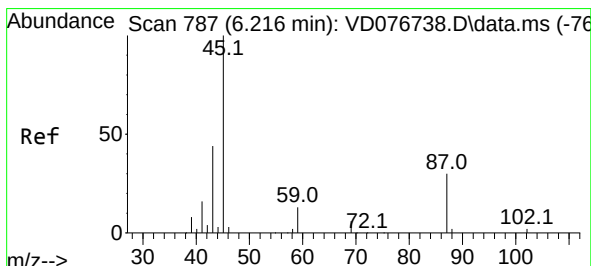
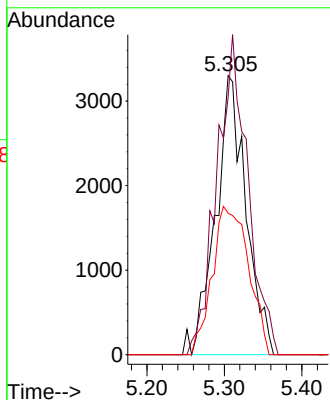
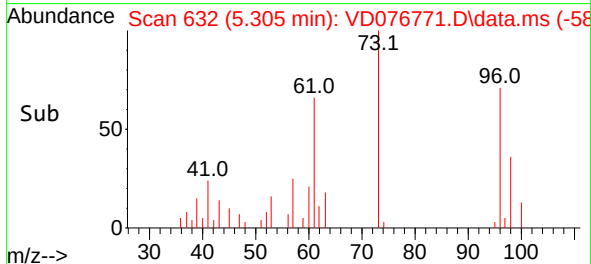
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 96 Resp: 899
Ion Ratio Lower Upper
96 100
61 92.2 89.3 133.9
98 50.7 48.6 73.0

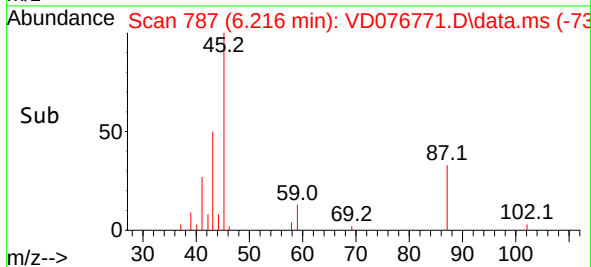
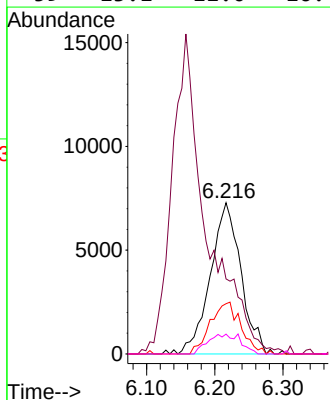
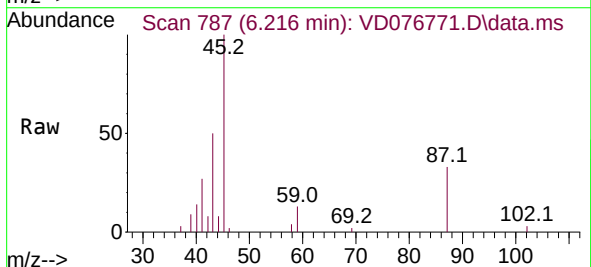
Manual Integrations
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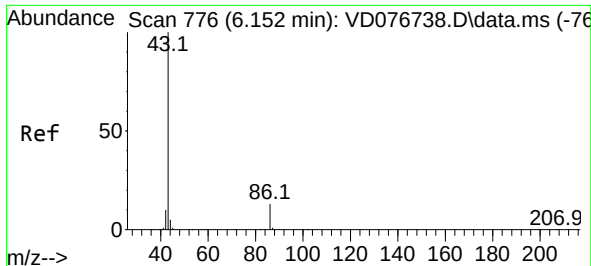
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#22
Diisopropyl ether
Concen: 4.219 ug/l
RT: 6.216 min Scan# 787
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

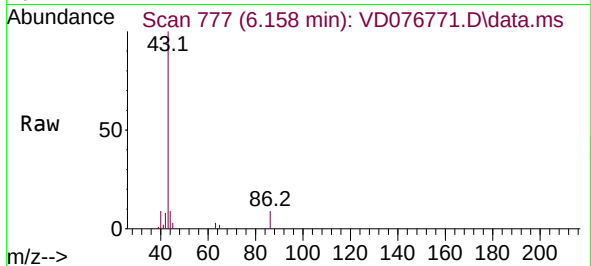
Tgt Ion: 45 Resp: 22621
Ion Ratio Lower Upper
45 100
43 46.1 40.0 60.0
87 33.2 28.2 42.4
59 13.1 11.0 16.4





#23
 Vinyl Acetate
 Concen: 20.425 ug/l
 RT: 6.158 min Scan# 776
 Delta R.T. 0.006 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00

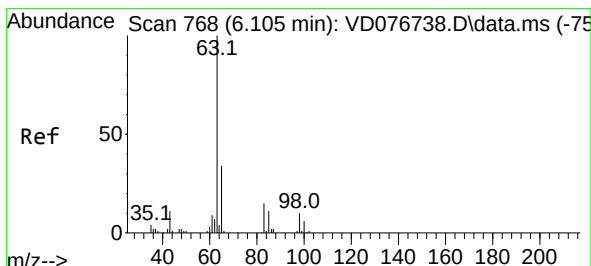
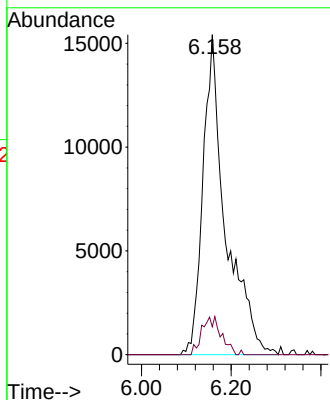
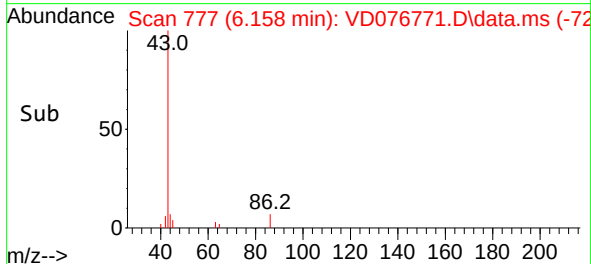
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



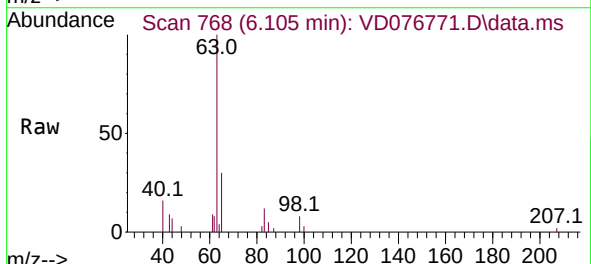
Tgt Ion: 43 Resp: 54184
 Ion Ratio Lower Upper
 43 100
 86 8.7 12.5 18.7

Manual Integrations
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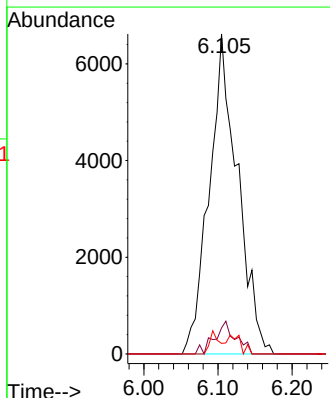
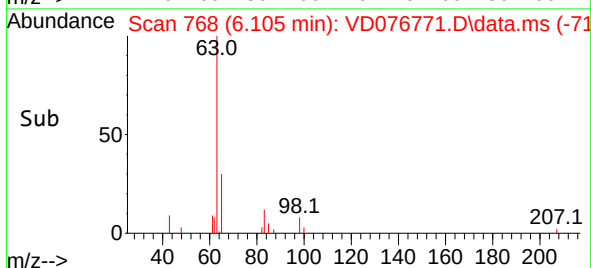
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023

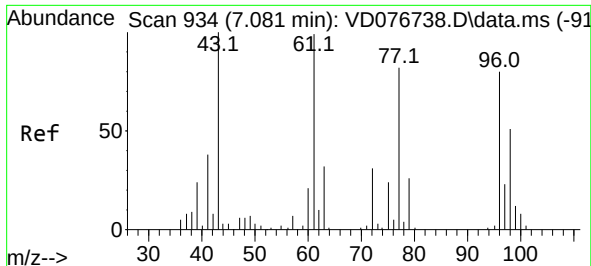


#24
 1,1-Dichloroethane
 Concen: 4.868 ug/l
 RT: 6.105 min Scan# 768
 Delta R.T. -0.000 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00



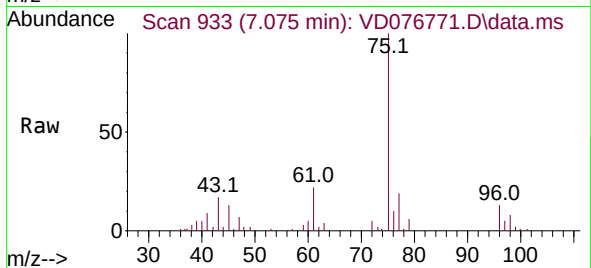
Tgt Ion: 63 Resp: 17596
 Ion Ratio Lower Upper
 63 100
 98 8.1 4.5 13.7
 100 3.3 2.5 7.5





#25
2-Butanone
Concen: 25.981 ug/l
RT: 7.075 min Scan# 91
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

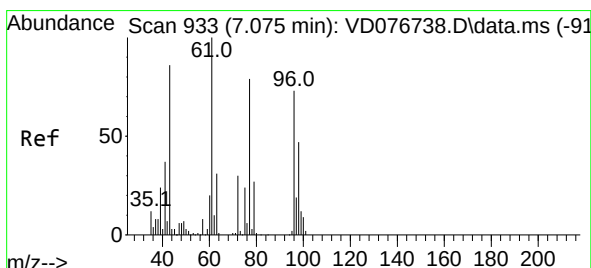
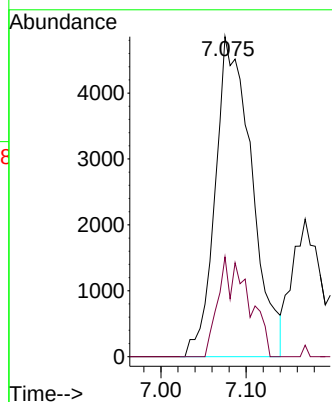
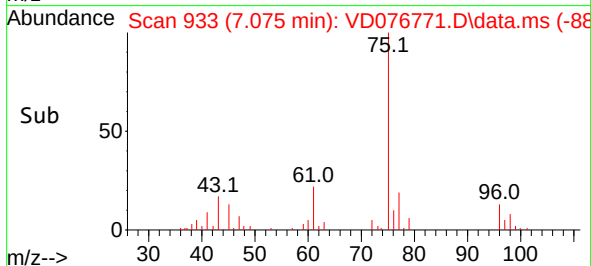
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 1442
Ion Ratio Lower Upper
43 100
72 31.2 30.7 46.1

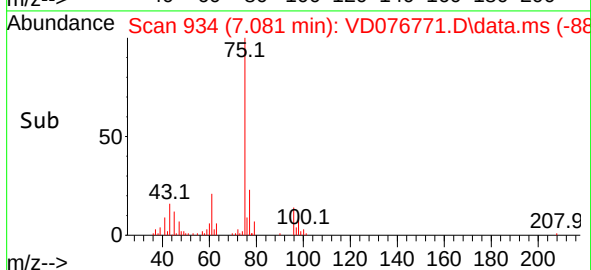
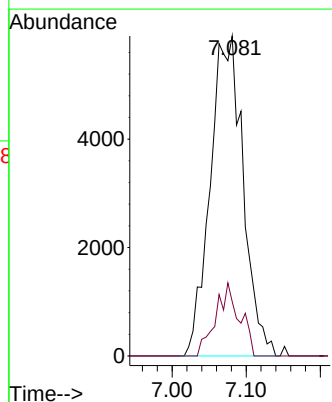
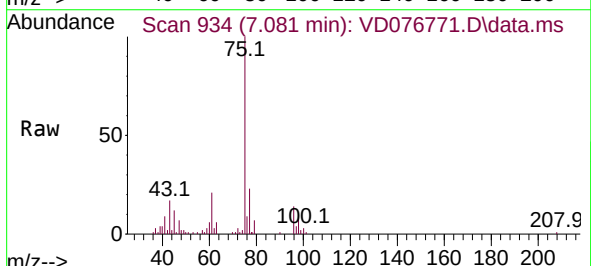
Manual Integrations
APPROVED

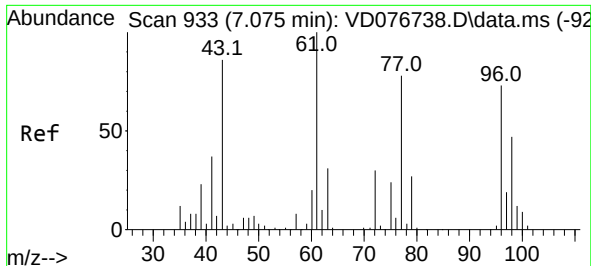
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#26
2,2-Dichloropropane
Concen: 5.832 ug/l
RT: 7.081 min Scan# 934
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

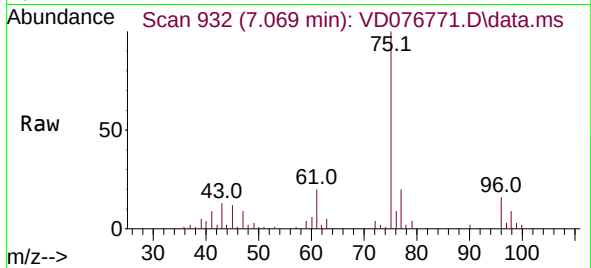
Tgt Ion: 77 Resp: 18174
Ion Ratio Lower Upper
77 100
97 16.5 13.2 39.6





#27
 cis-1,2-Dichloroethene
 Concen: 4.512 ug/l
 RT: 7.069 min Scan# 911
 Delta R.T. -0.006 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00

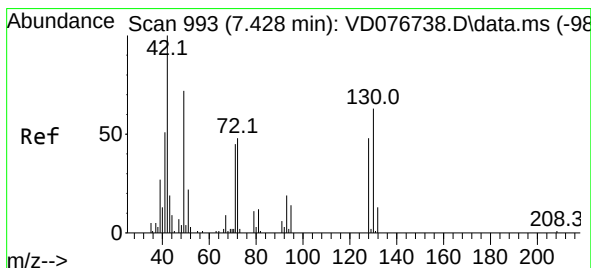
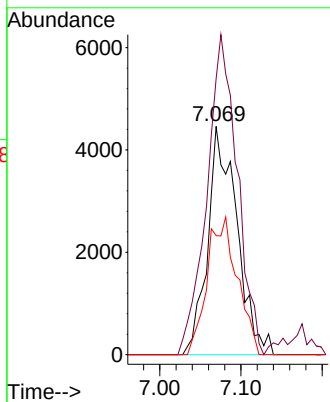
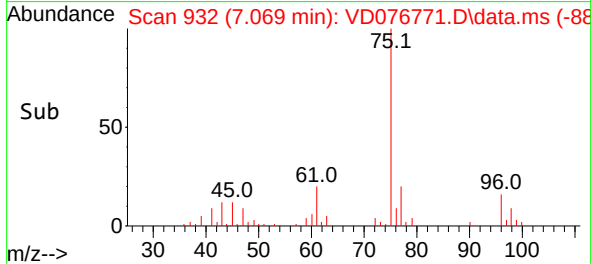
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



Tgt Ion: 96 Resp: 11144
 Ion Ratio Lower Upper
 96 100
 61 146.4 0.0 239.2
 98 62.2 0.0 128.6

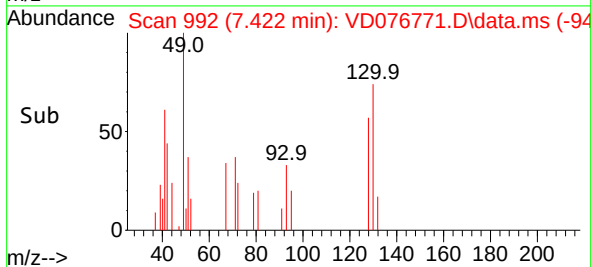
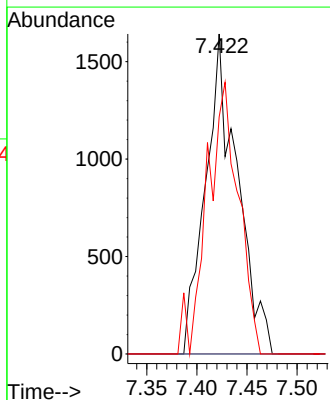
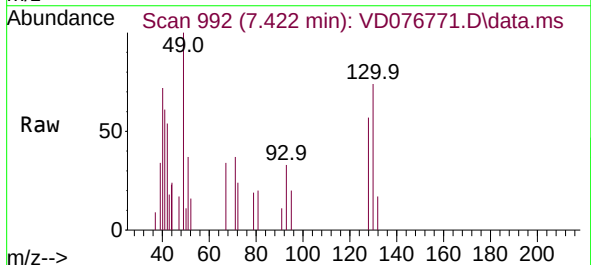
Manual Integrations
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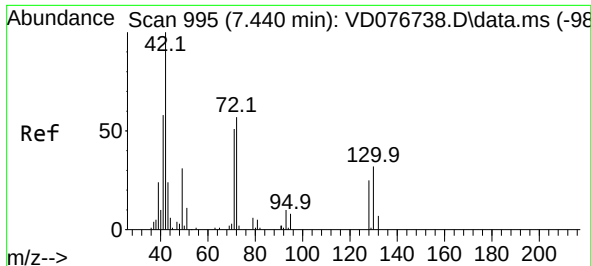
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023



#28
 Bromochloromethane
 Concen: 4.025 ug/l
 RT: 7.422 min Scan# 992
 Delta R.T. -0.006 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00

Tgt Ion: 49 Resp: 3638
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 6.0
 130 84.2 83.2 124.8





#29

Tetrahydrofuran

Concen: 19.684 ug/l

RT: 7.440 min Scan# 995

Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

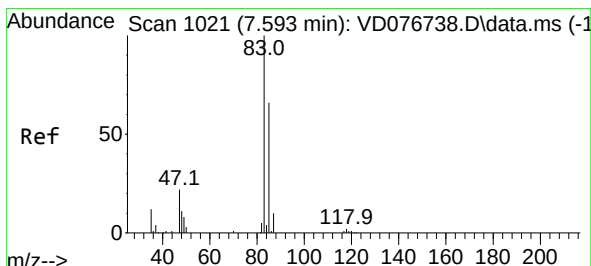
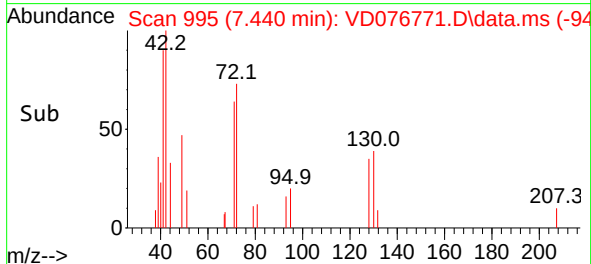
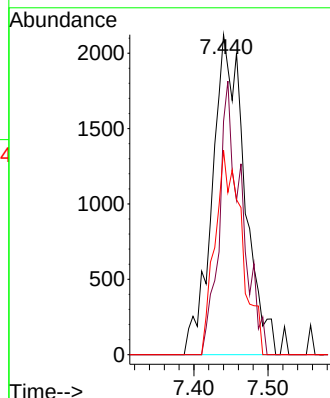
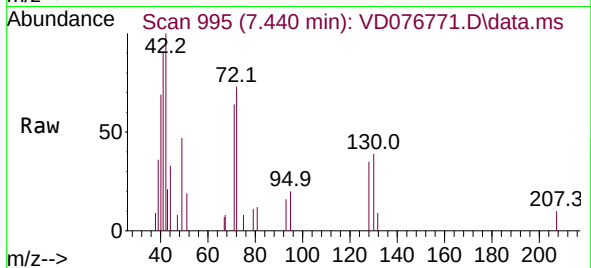
Tgt Ion:	42	Resp:	6458
Ion Ratio	Lower	Upper	
42	100		
72	58.6	46.5	69.7
71	52.6	44.5	66.7

Manual Integrations

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Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#30

Chloroform

Concen: 4.692 ug/l

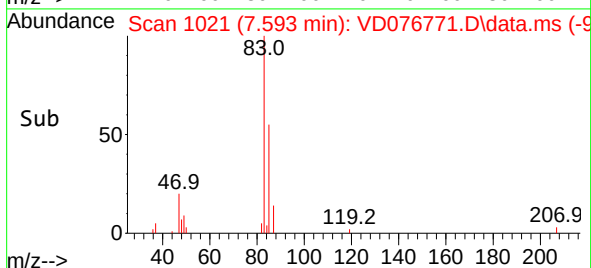
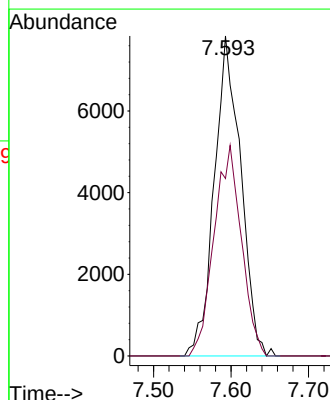
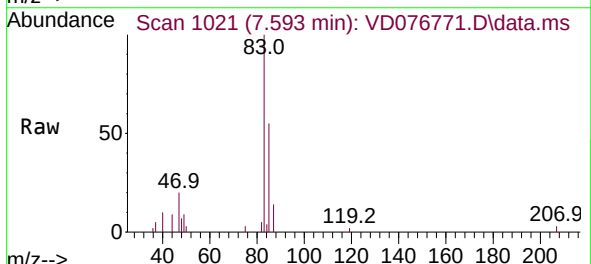
RT: 7.593 min Scan# 1021

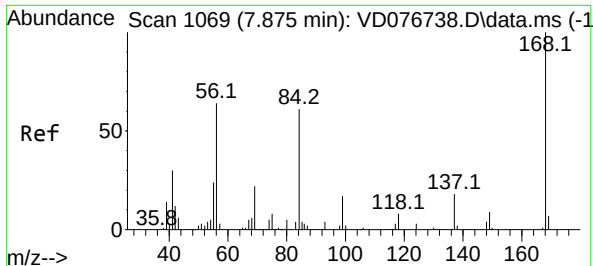
Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

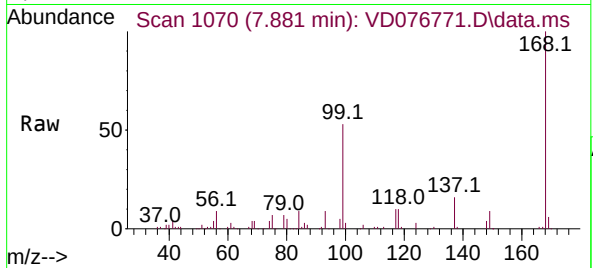
Tgt Ion:	83	Resp:	18578
Ion Ratio	Lower	Upper	
83	100		
85	55.5	53.4	80.2





#31
Cyclohexane
Concen: 5.821 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

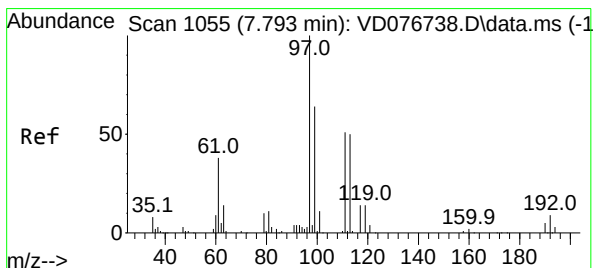
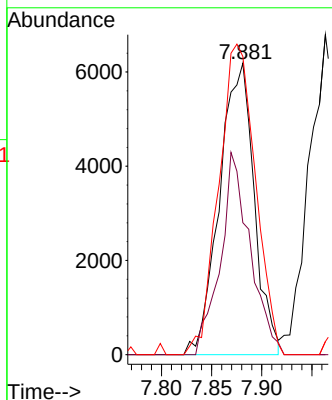
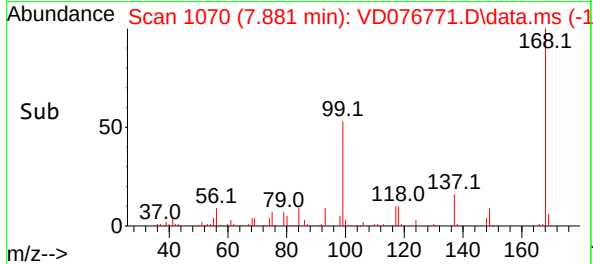
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



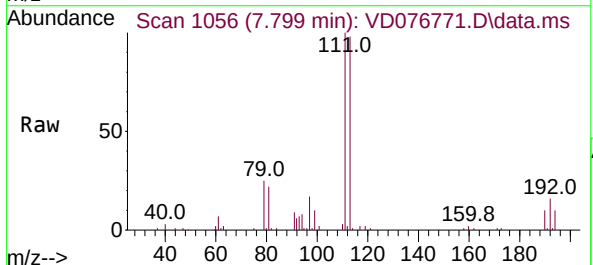
Tgt Ion: 56 Resp: 14884
Ion Ratio Lower Upper
56 100
69 45.3 28.6 43.0
84 102.4 84.8 127.2

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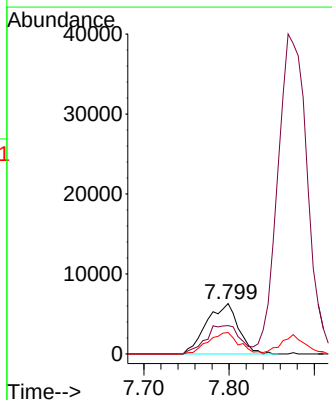
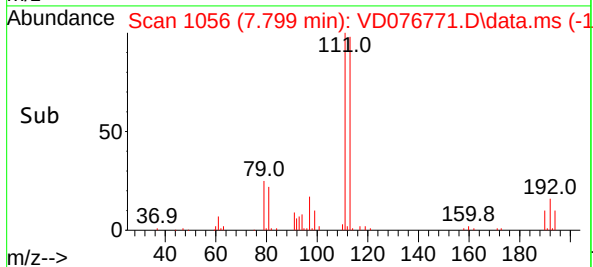
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

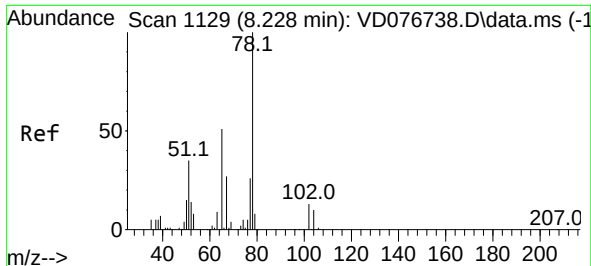


#32
1,1,1-Trichloroethane
Concen: 5.102 ug/l
RT: 7.799 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



Tgt Ion: 97 Resp: 16297
Ion Ratio Lower Upper
97 100
99 61.5 52.0 78.0
61 41.4 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 47.686 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 65 Resp: 8284

Ion Ratio Lower Upper

65 100

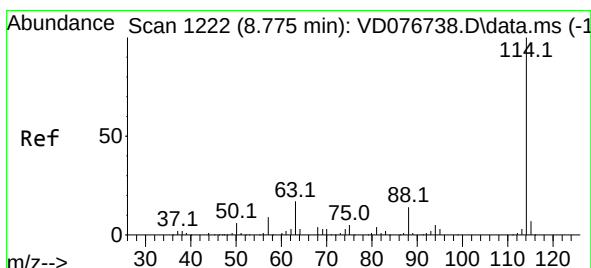
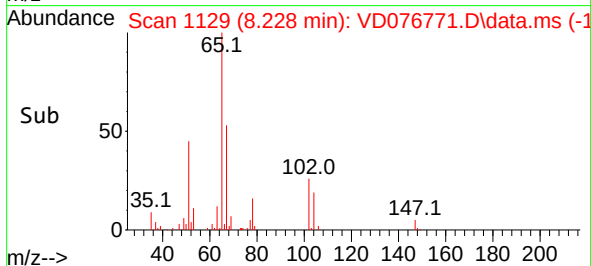
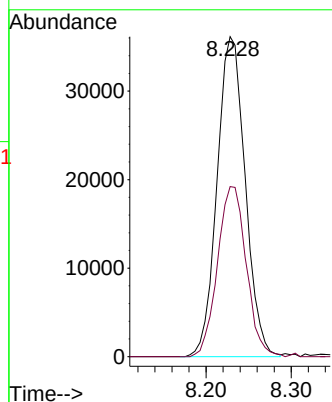
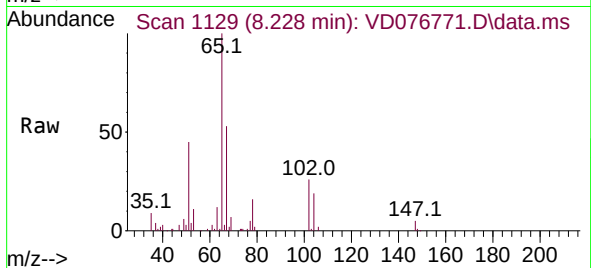
67 54.3 0.0 115.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

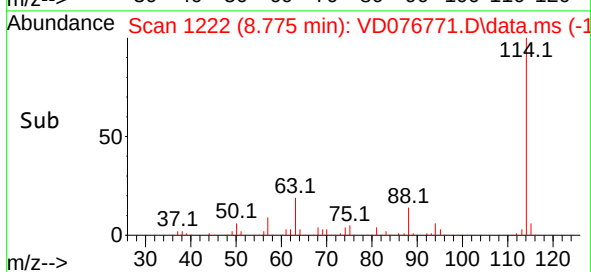
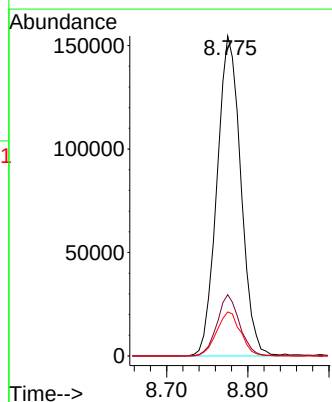
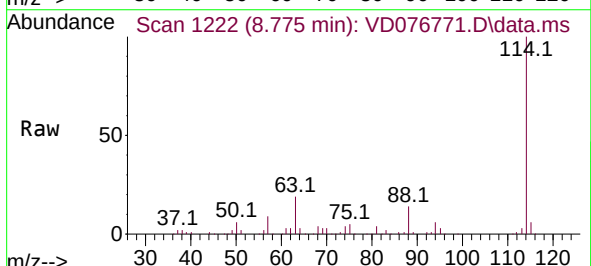
Tgt Ion:114 Resp: 315832

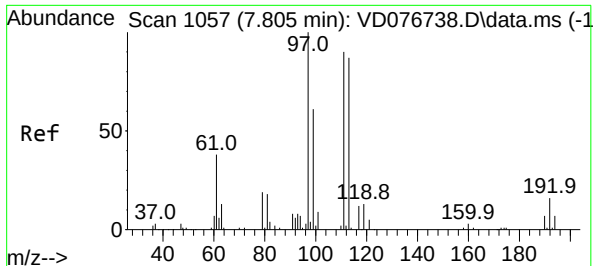
Ion Ratio Lower Upper

114 100

63 19.2 0.0 33.4

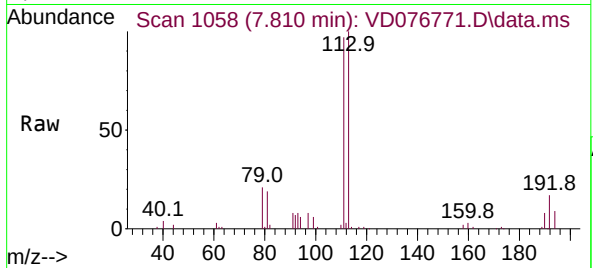
88 13.8 0.0 26.2





#35
Dibromofluoromethane
Concen: 49.603 ug/l
RT: 7.810 min Scan# 1057
Delta R.T. 0.005 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

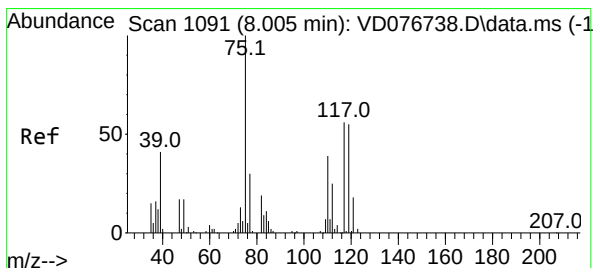
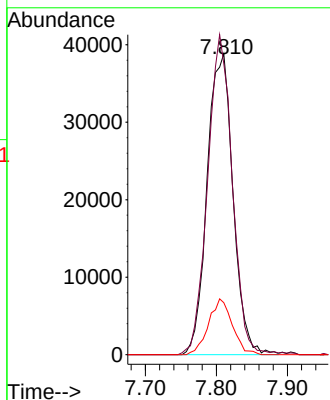
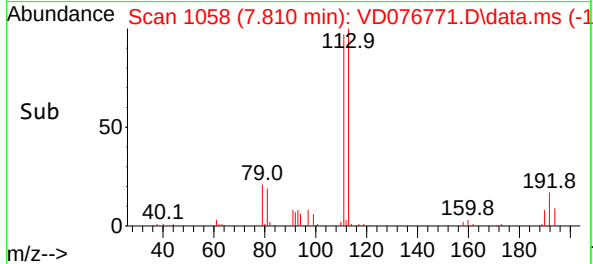
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 113 Resp: 9844
Ion Ratio Lower Upper
113 100
111 101.6 84.7 127.1
192 17.1 16.8 25.2

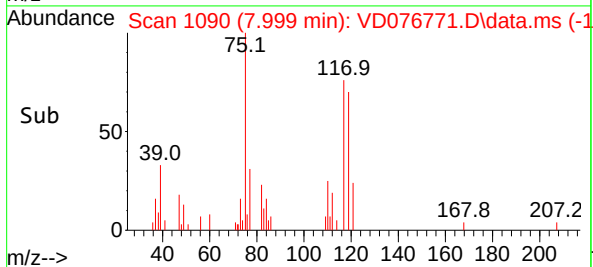
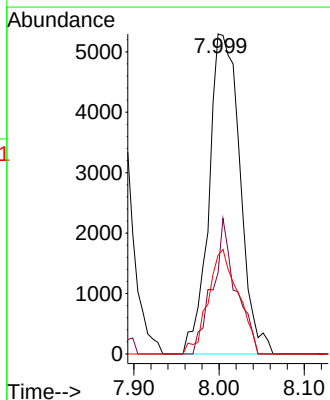
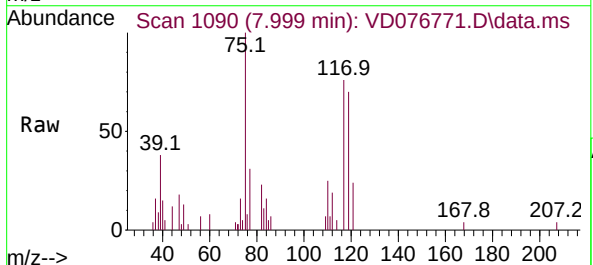
Manual Integrations
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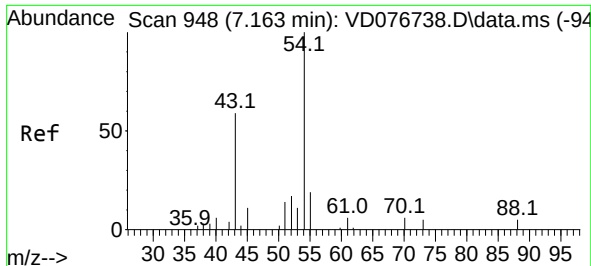
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#36
1,1-Dichloropropene
Concen: 5.152 ug/l
RT: 7.999 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 75 Resp: 13362
Ion Ratio Lower Upper
75 100
110 31.8 19.9 59.6
77 31.8 24.7 37.1





#37

Ethyl Acetate

Concen: 4.621 ug/l

RT: 7.169 min Scan# 948

Delta R.T. 0.006 min

Lab File: VD076771.D

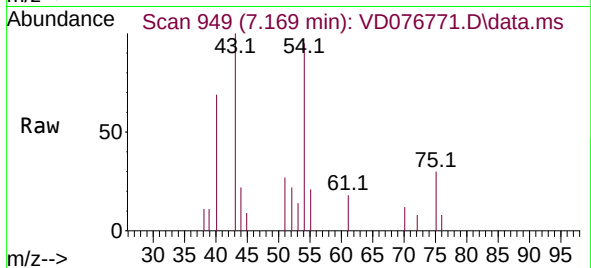
Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023



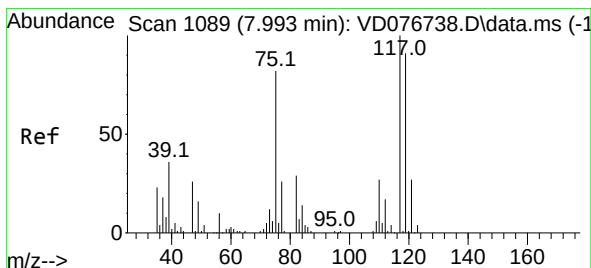
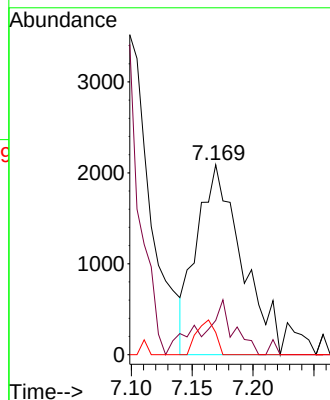
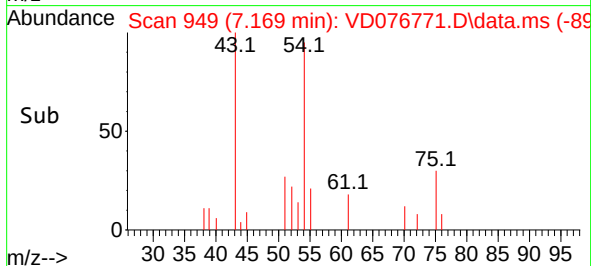
Tgt Ion: 43 Resp: 535

Ion	Ratio	Lower	Upper
43	100		
61	20.9	14.9	22.3
70	7.6	10.0	15.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#38

Carbon Tetrachloride

Concen: 4.355 ug/l

RT: 7.987 min Scan# 1088

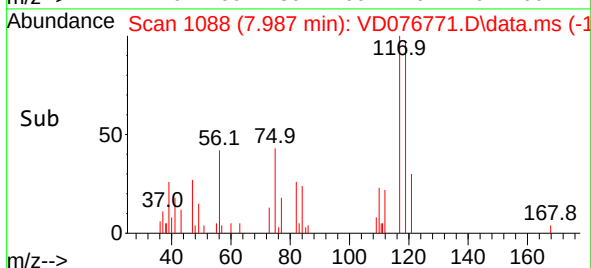
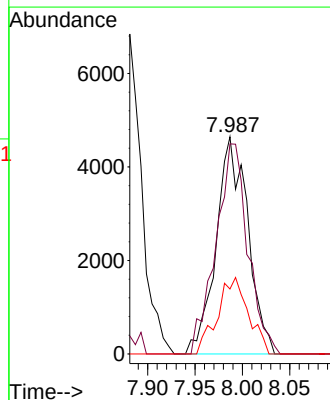
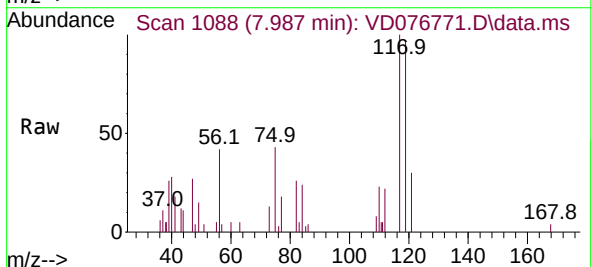
Delta R.T. -0.006 min

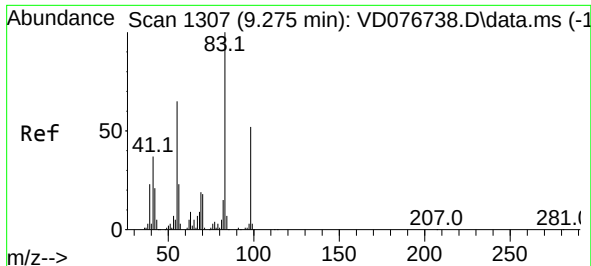
Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Tgt Ion:117 Resp: 10816

Ion	Ratio	Lower	Upper
117	100		
119	96.7	78.0	117.0
121	29.9	24.2	36.2





#39

Methylcyclohexane

Concen: 4.663 ug/l

RT: 9.269 min Scan# 11306

Delta R.T. -0.006 min

Lab File: VD076771.D

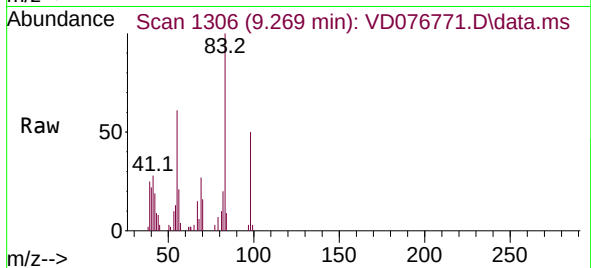
Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023



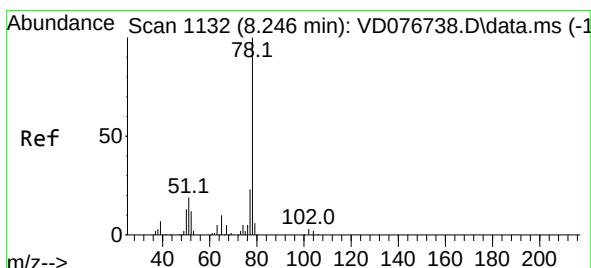
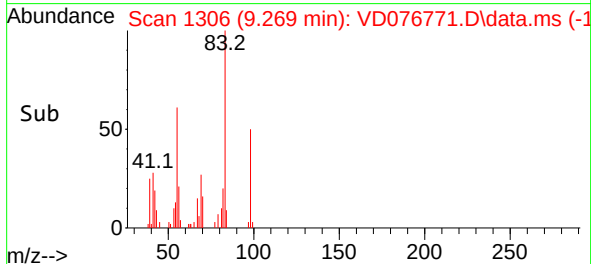
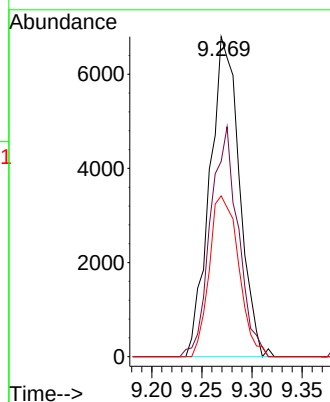
Tgt Ion: 83	Resp: 13964
Ion Ratio	Lower Upper
83 100	
55 61.0	49.4 74.0
98 50.2	38.4 57.6

Manual Integrations

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Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#40

Benzene

Concen: 4.728 ug/l

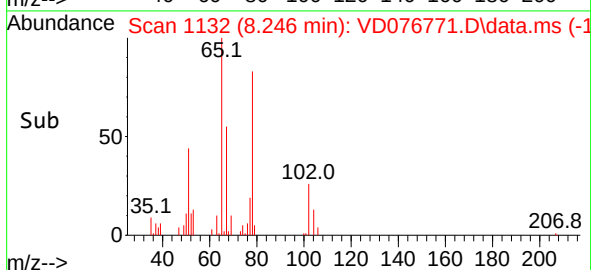
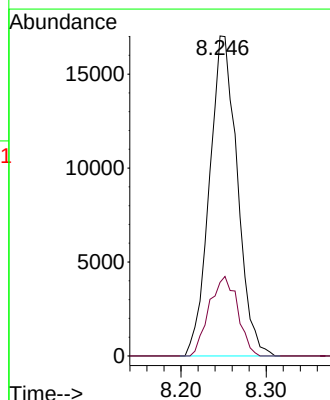
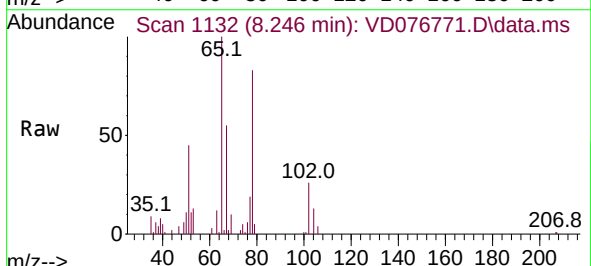
RT: 8.246 min Scan# 1132

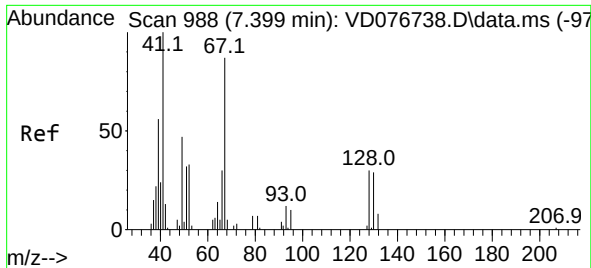
Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

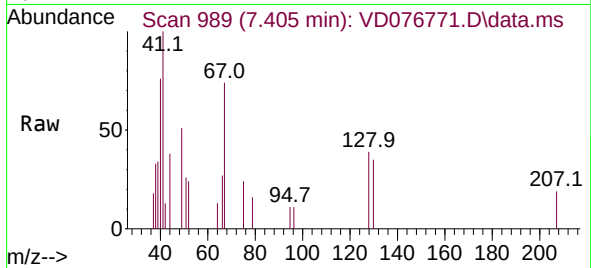
Tgt Ion: 78	Resp: 38688
Ion Ratio	Lower Upper
78 100	
77 23.0	19.4 29.0





#41
Methacrylonitrile
Concen: 4.483 ug/l
RT: 7.405 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

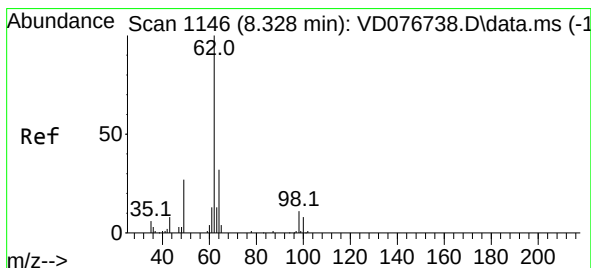
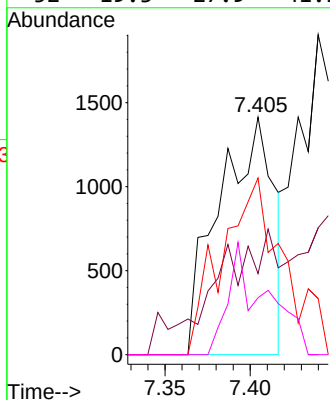
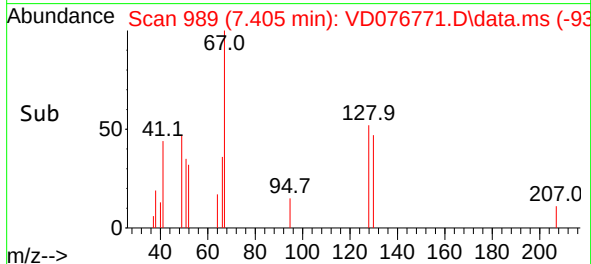
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 13.6 34.0 51.0
67 83.7 77.0 115.4
52 19.3 27.9 41.9#

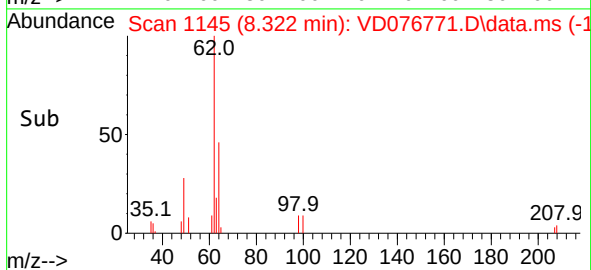
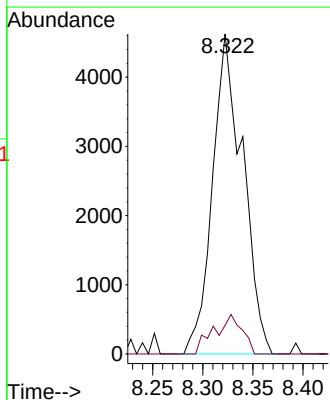
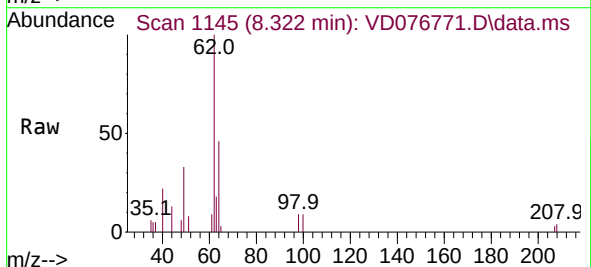
Manual Integrations
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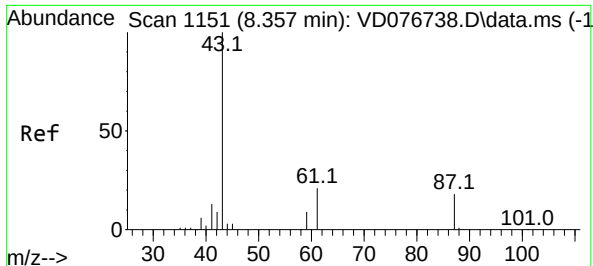
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#42
1,2-Dichloroethane
Concen: 4.564 ug/l
RT: 8.322 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 62 Resp: 9703
Ion Ratio Lower Upper
62 100
98 11.4 0.0 25.4





#43

Isopropyl Acetate

Concen: 4.140 ug/l

RT: 8.357 min Scan# 1151

Delta R.T. 0.001 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 9372

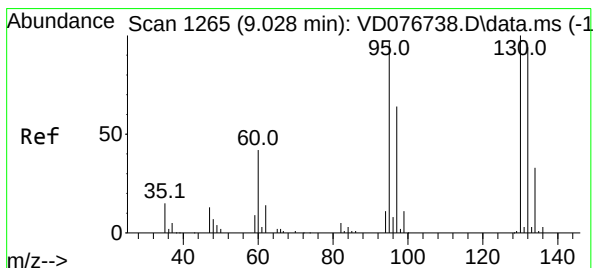
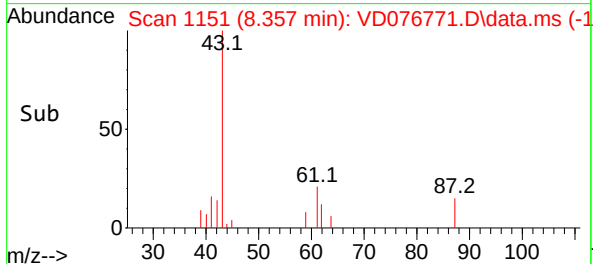
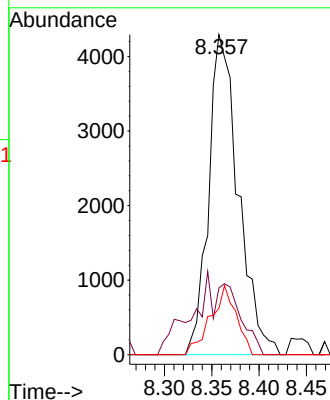
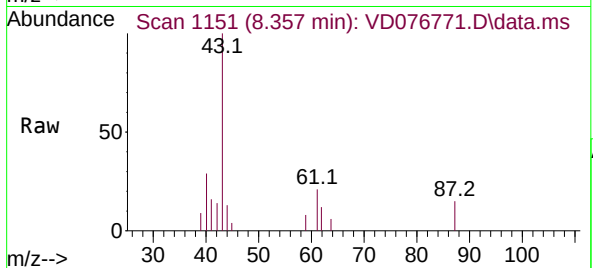
Ion	Ratio	Lower	Upper
43	100		
61	17.8	31.4	47.0
87	18.5	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#44

Trichloroethene

Concen: 4.880 ug/l

RT: 9.022 min Scan# 1264

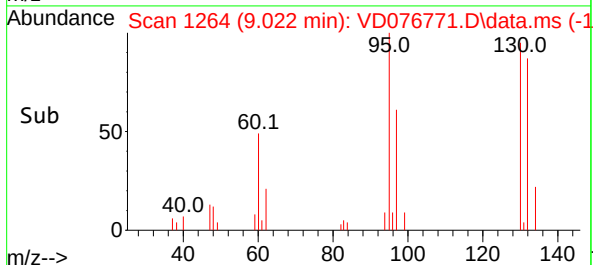
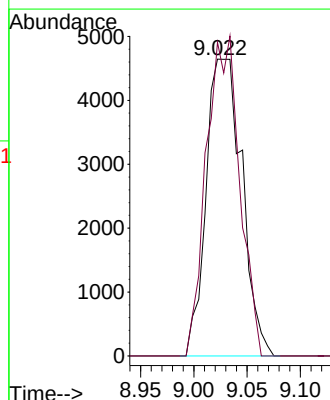
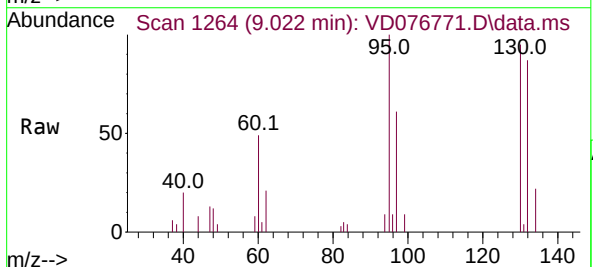
Delta R.T. -0.006 min

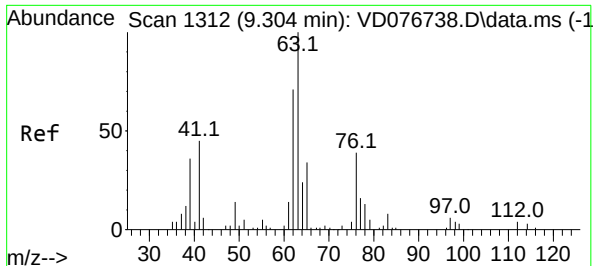
Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Tgt Ion:130 Resp: 10881

Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	179.2





#45

1,2-Dichloropropane

Concen: 4.840 ug/l

RT: 9.299 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

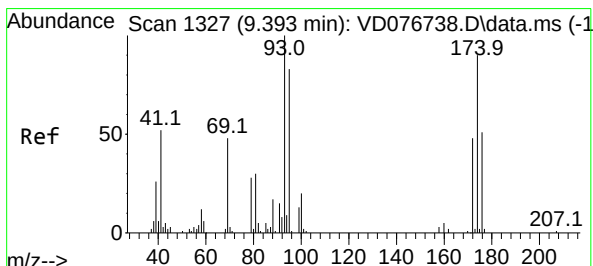
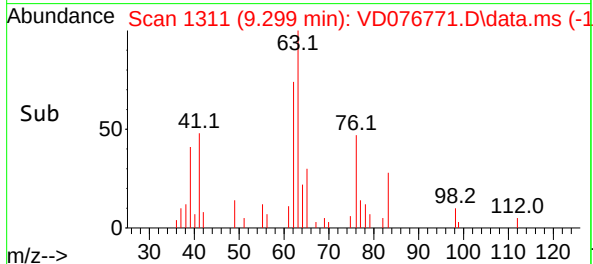
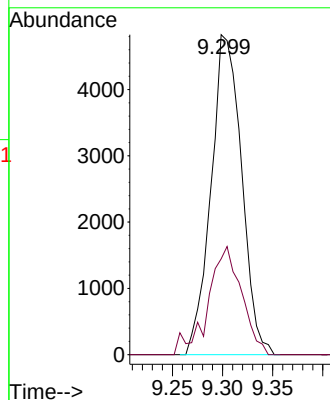
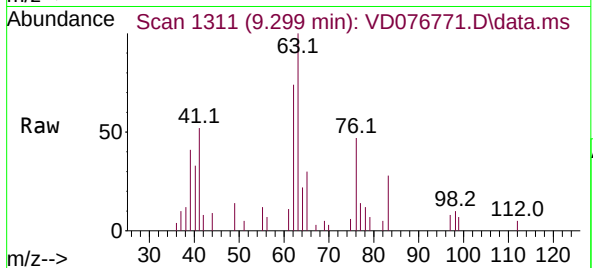
ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 63 Resp: 10224
 Ion Ratio Lower Upper
 63 100
 65 29.9 24.5 36.7

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023



#46

Dibromomethane

Concen: 4.922 ug/l

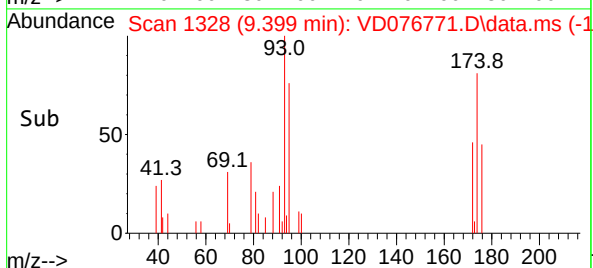
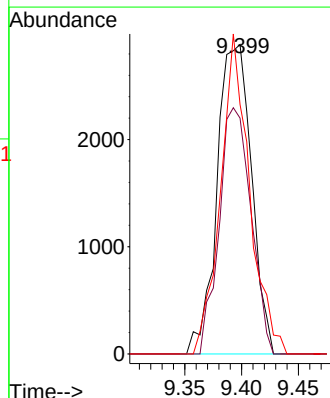
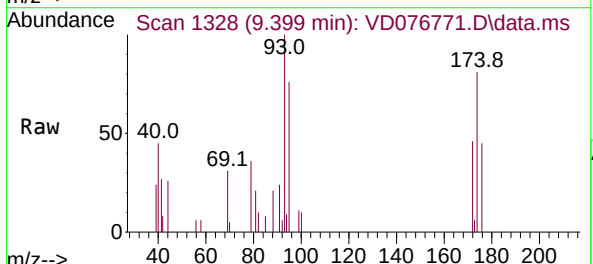
RT: 9.399 min Scan# 1328

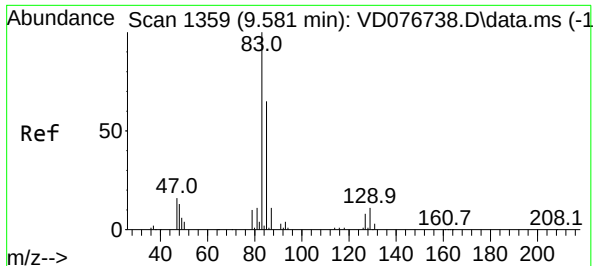
Delta R.T. 0.006 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Tgt Ion: 93 Resp: 6086
 Ion Ratio Lower Upper
 93 100
 95 73.8 67.7 101.5
 174 87.1 85.4 128.2





#47

Bromodichloromethane

Concen: 4.870 ug/l

RT: 9.581 min Scan# 1359

Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

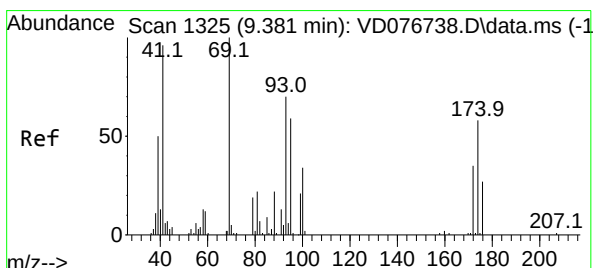
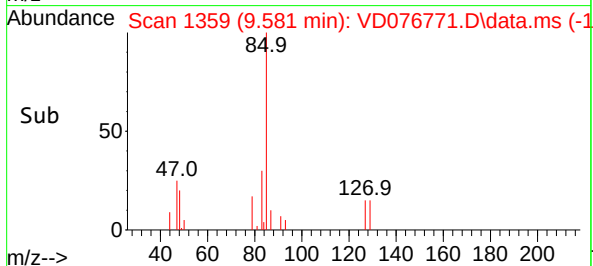
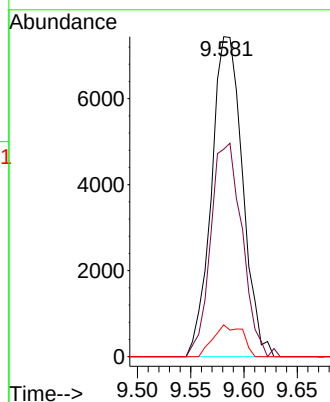
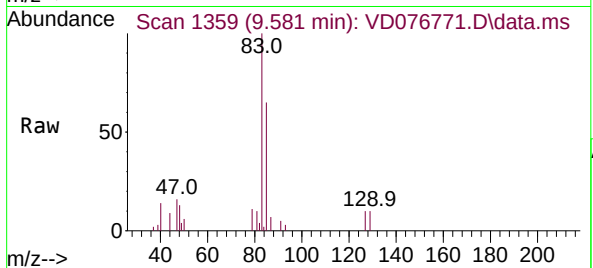
Tgt Ion:	83	Resp:	1511
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.2	75.4
127	10.0	6.3	9.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#48

Methyl methacrylate

Concen: 3.748 ug/l

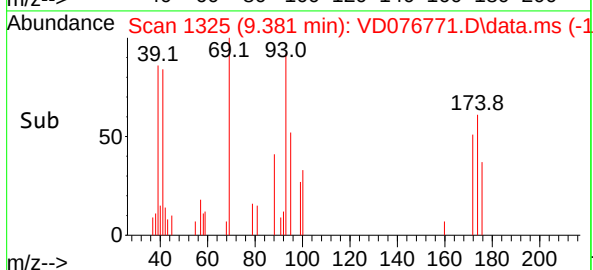
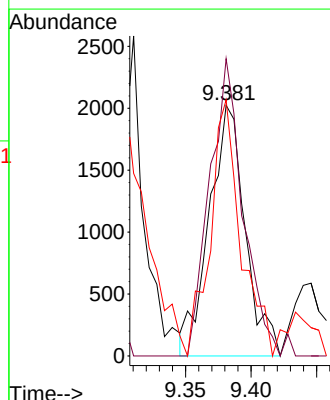
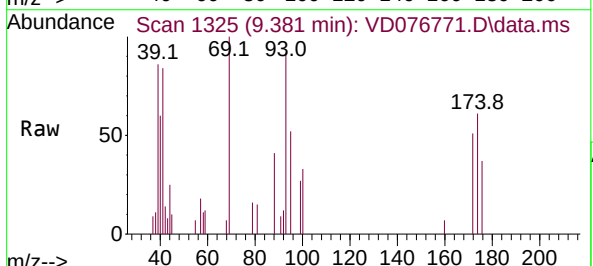
RT: 9.381 min Scan# 1325

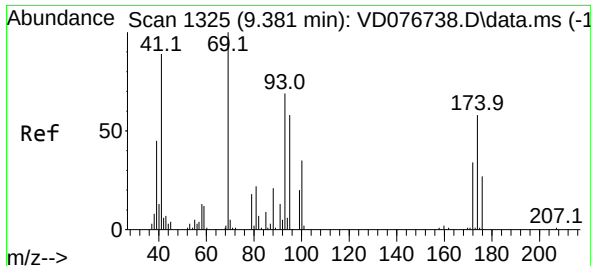
Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

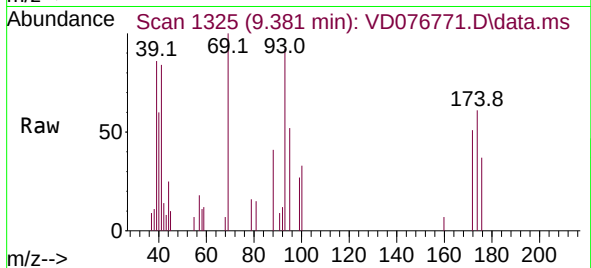
Tgt Ion:	41	Resp:	3861
Ion	Ratio	Lower	Upper
41	100		
69	109.9	102.2	153.2
39	86.1	41.4	62.2





#49
1,4-Dioxane
Concen: 87.303 ug/l
RT: 9.381 min Scan# 1325
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

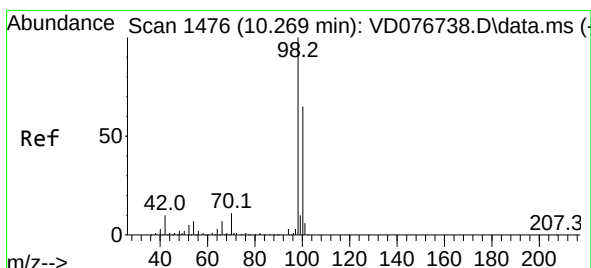
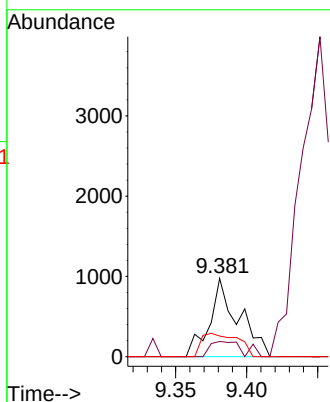
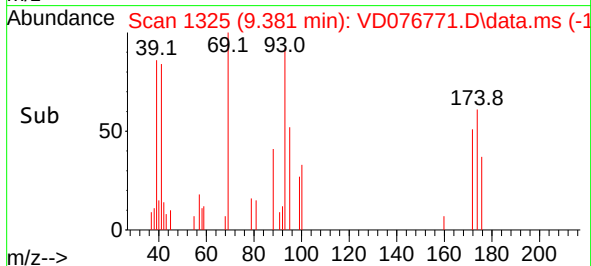
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



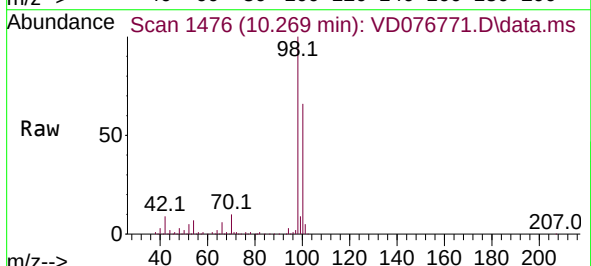
Tgt Ion: 88 Resp: 138
Ion Ratio Lower Upper
88 100
43 22.1 19.0 28.6
58 37.6 43.5 65.3

Manual Integrations
APPROVED

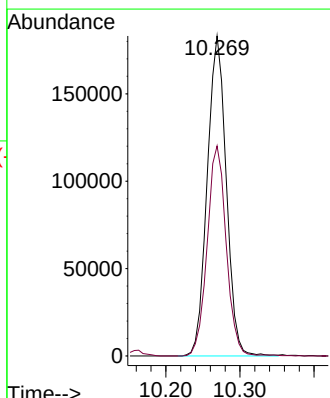
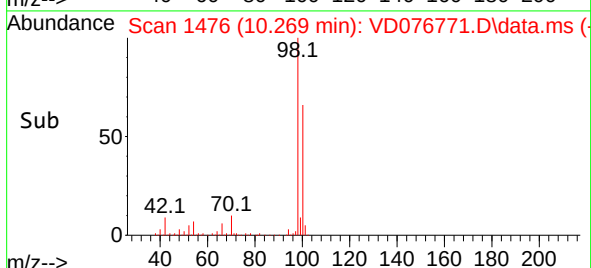
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

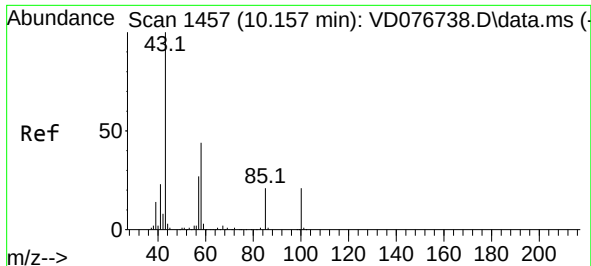


#50
Toluene-d8
Concen: 46.015 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



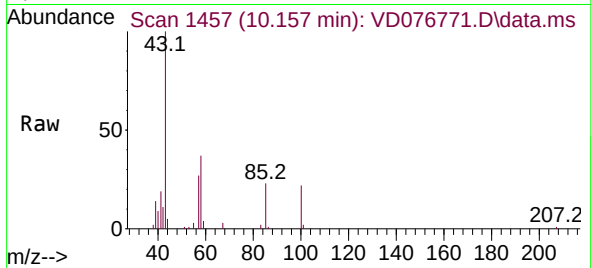
Tgt Ion: 98 Resp: 326707
Ion Ratio Lower Upper
98 100
100 65.7 50.3 75.5





#51
4-Methyl-2-Pentanone
Concen: 20.873 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

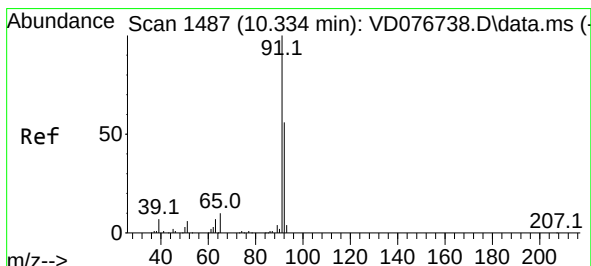
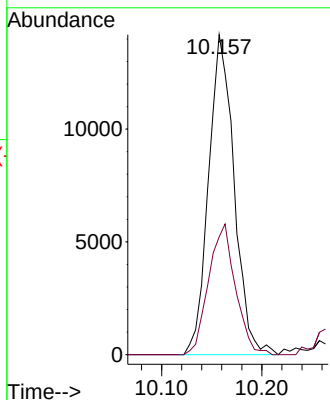
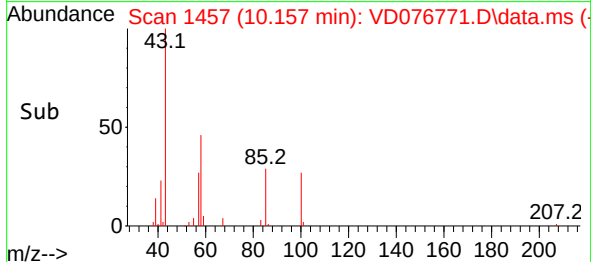
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



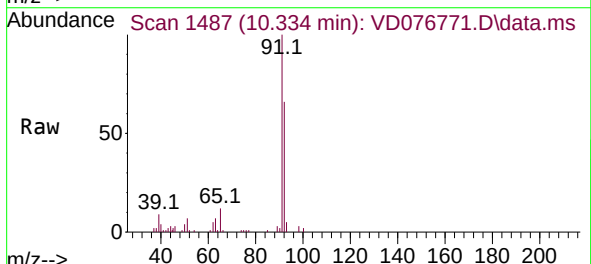
Tgt Ion: 43 Resp: 2515
Ion Ratio Lower Upper
43 100
58 42.8 38.9 58.3

Manual Integrations
APPROVED

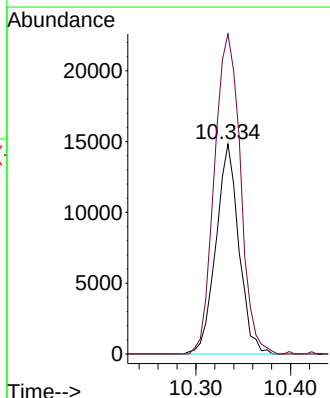
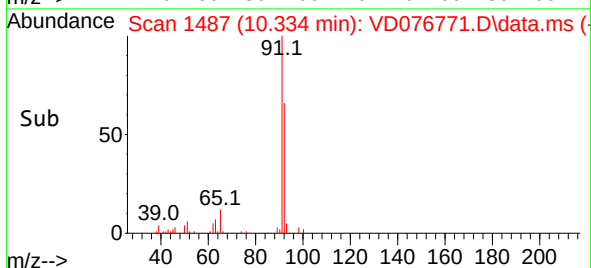
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

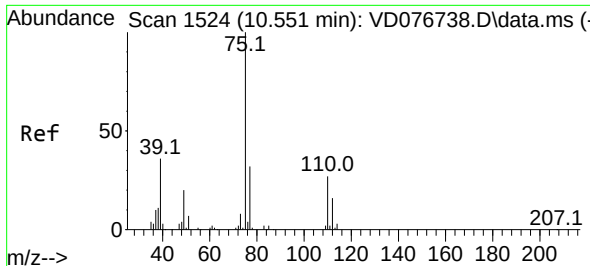


#52
Toluene
Concen: 4.642 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



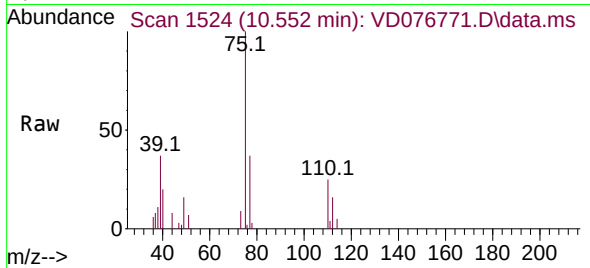
Tgt Ion: 92 Resp: 24950
Ion Ratio Lower Upper
92 100
91 173.2 143.0 214.4





#53
t-1,3-Dichloropropene
Concen: 4.197 ug/l
RT: 10.552 min Scan# 11
Delta R.T. 0.001 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

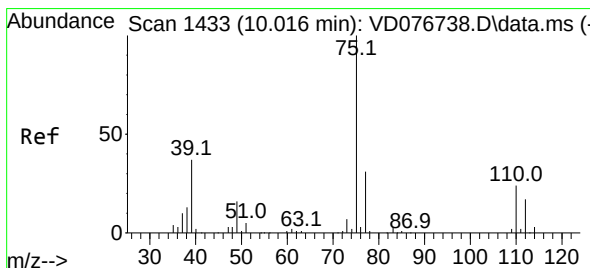
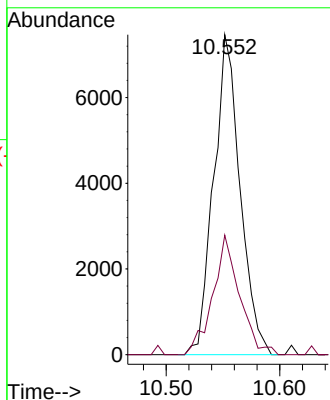
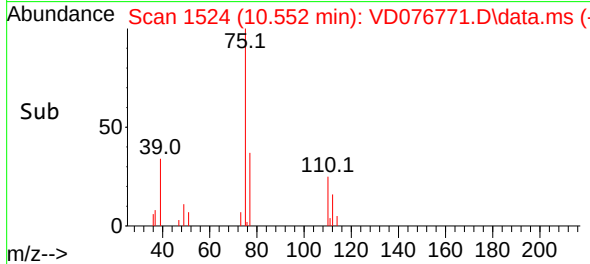
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 75 Resp: 1208
Ion Ratio Lower Upper
75 100
77 37.3 25.3 37.9

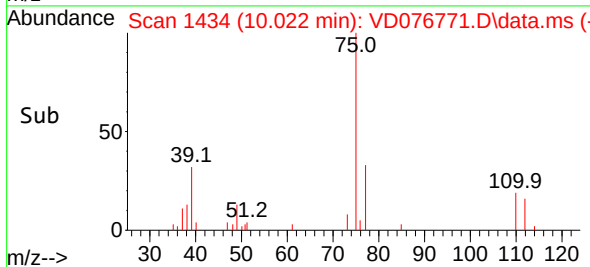
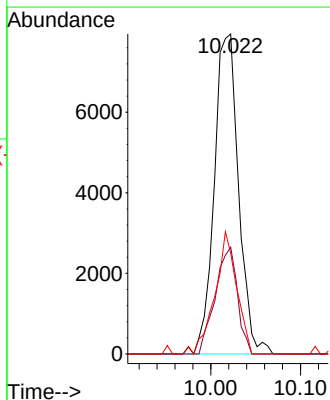
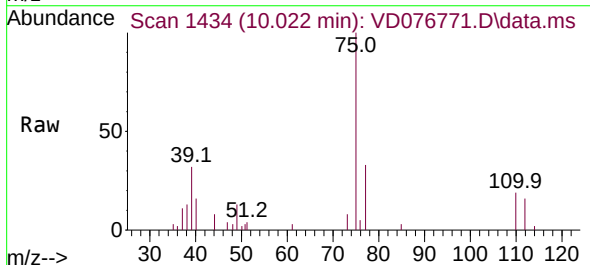
Manual Integrations
APPROVED

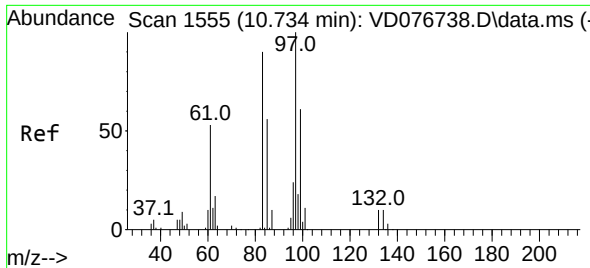
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#54
cis-1,3-Dichloropropene
Concen: 4.416 ug/l
RT: 10.022 min Scan# 1434
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

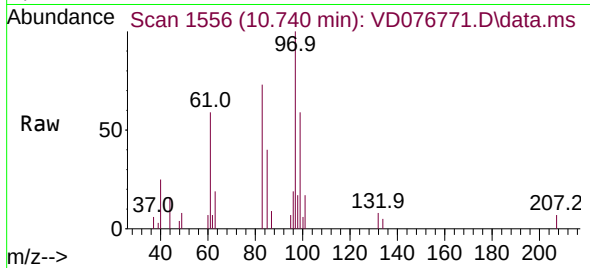
Tgt Ion: 75 Resp: 14988
Ion Ratio Lower Upper
75 100
77 33.3 25.5 38.3
39 31.5 22.1 33.1





#55
1,1,2-Trichloroethane
Concen: 4.587 ug/l
RT: 10.740 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

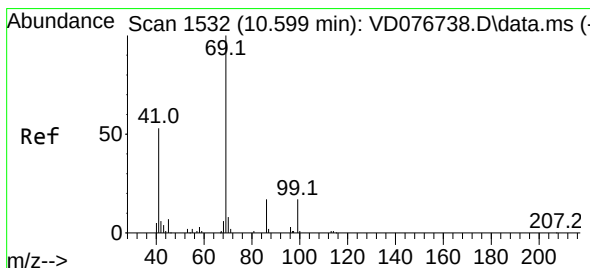
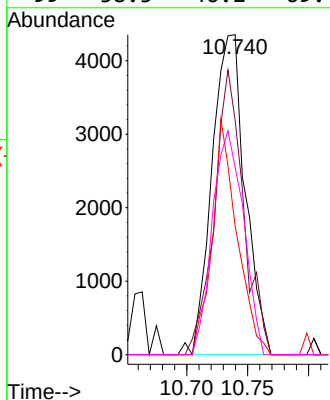
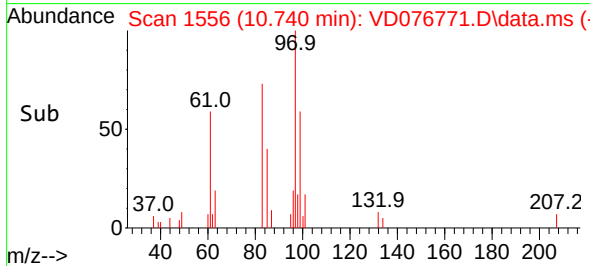
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



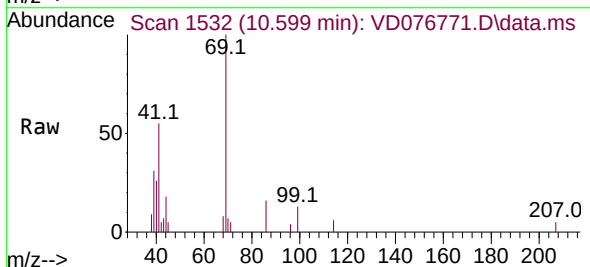
Tgt Ion: 97 Resp: 828
Ion Ratio Lower Upper
97 100
83 73.3 65.8 98.6
85 40.1 45.7 68.5
99 58.5 46.2 69.4

Manual Integrations
APPROVED

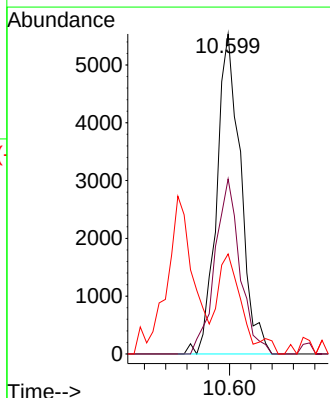
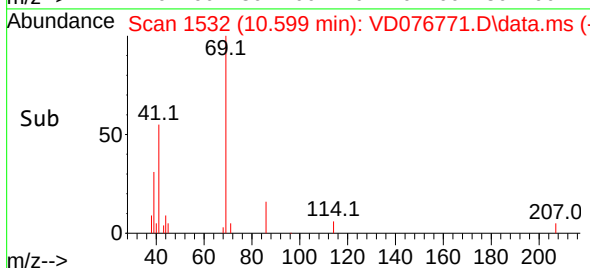
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

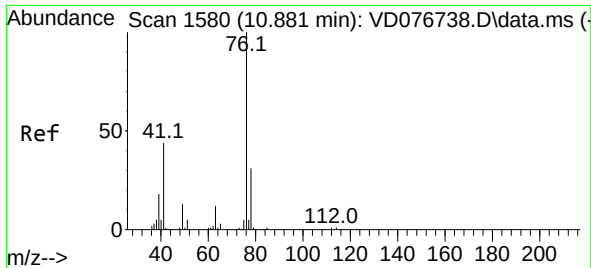


#56
Ethyl methacrylate
Concen: 4.141 ug/l
RT: 10.599 min Scan# 1532
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



Tgt Ion: 69 Resp: 8630
Ion Ratio Lower Upper
69 100
41 57.5 39.1 58.7
39 31.6 20.0 30.0#





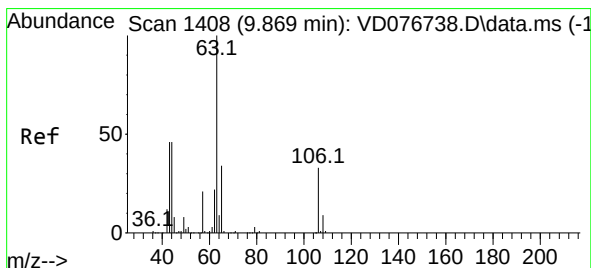
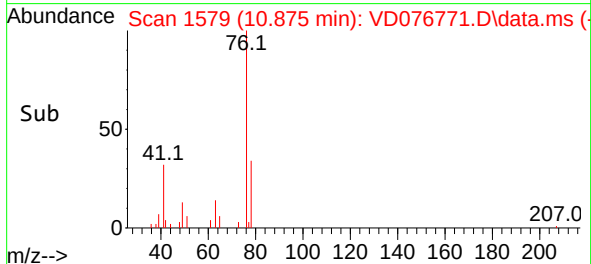
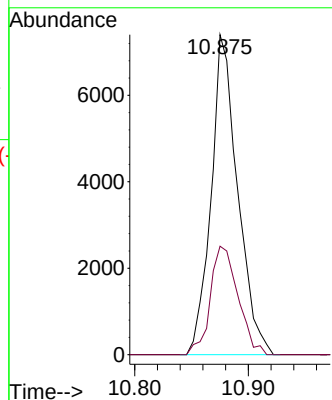
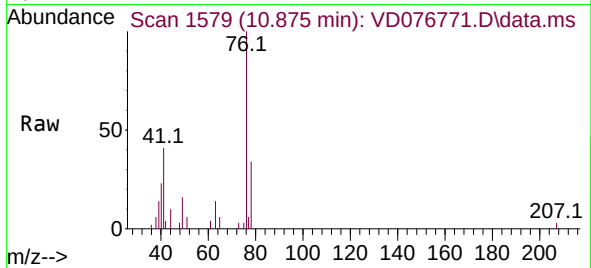
#57
1,3-Dichloropropane
Concen: 4.086 ug/l
RT: 10.875 min Scan# 1579
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion: 76 Resp: 1201
Ion Ratio Lower Upper
76 100
78 35.4 26.4 39.6

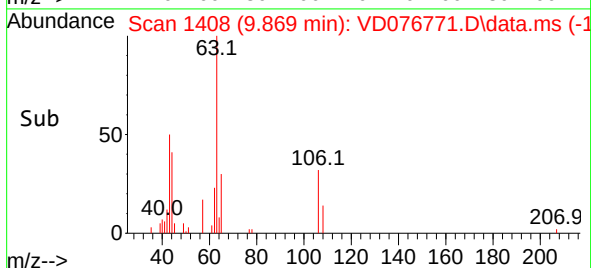
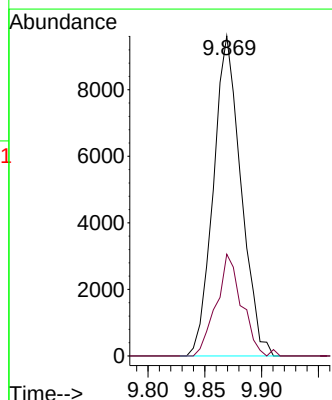
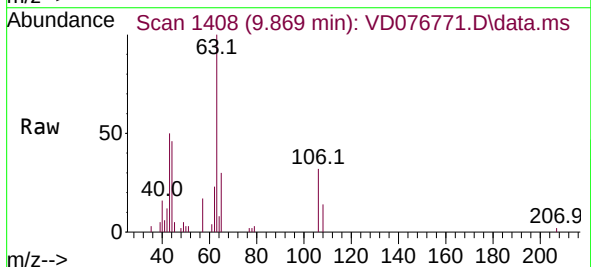
Manual Integrations
APPROVED

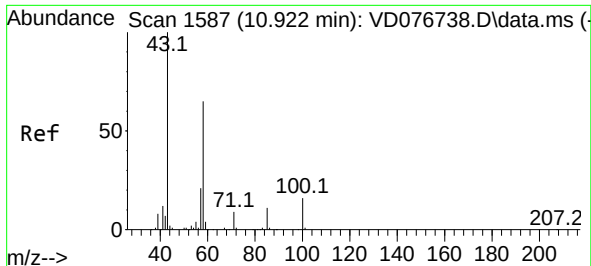
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#58
2-Chloroethyl Vinyl ether
Concen: 20.168 ug/l
RT: 9.869 min Scan# 1408
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

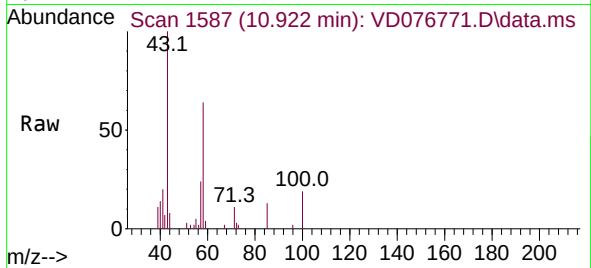
Tgt Ion: 63 Resp: 16268
Ion Ratio Lower Upper
63 100
106 29.5 25.3 37.9





#59
2-Hexanone
Concen: 19.065 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

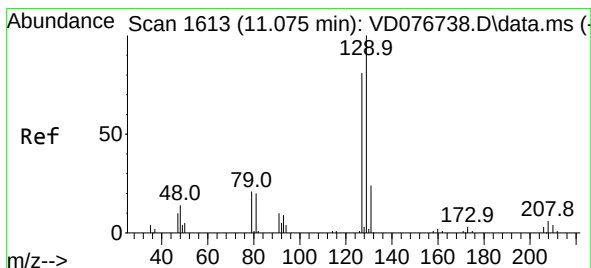
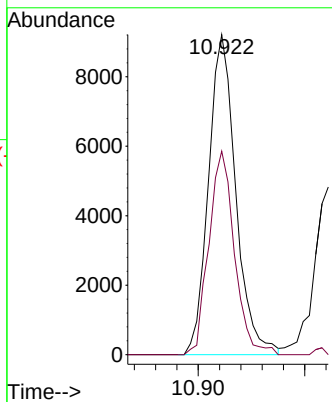
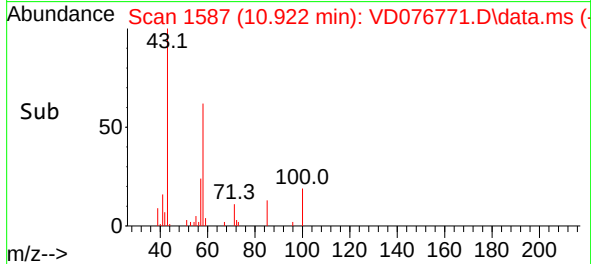
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
58 59.8 34.1 102.2

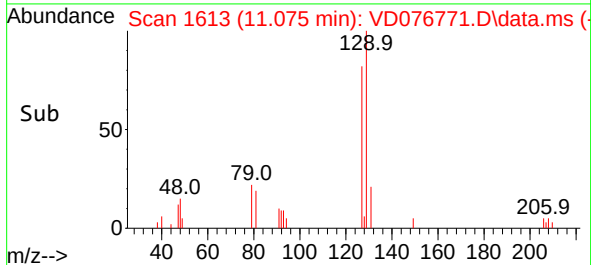
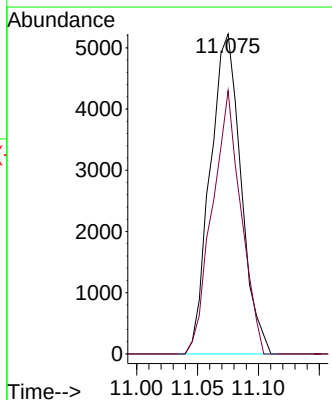
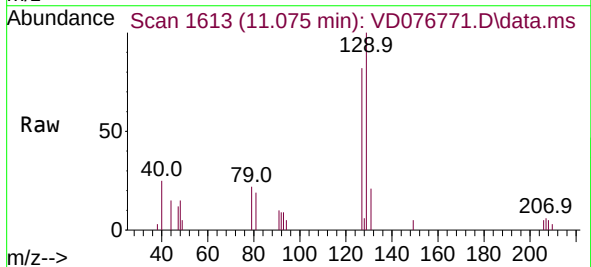
Manual Integrations
APPROVED

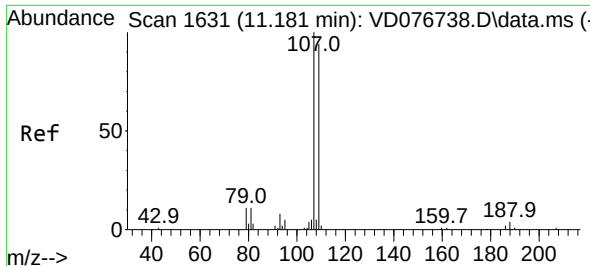
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#60
Dibromochloromethane
Concen: 4.383 ug/l
RT: 11.075 min Scan# 1613
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

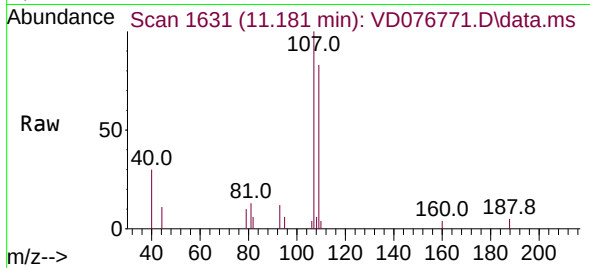
Tgt Ion:129 Resp: 9193
Ion Ratio Lower Upper
129 100
127 76.7 37.1 111.5





#61
1,2-Dibromoethane
Concen: 4.684 ug/l
RT: 11.181 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

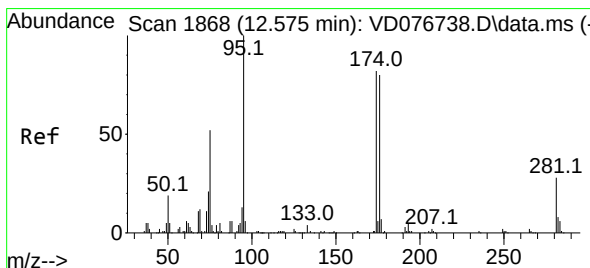
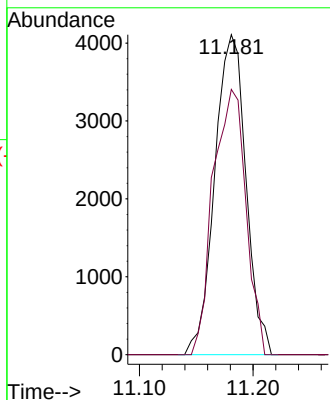
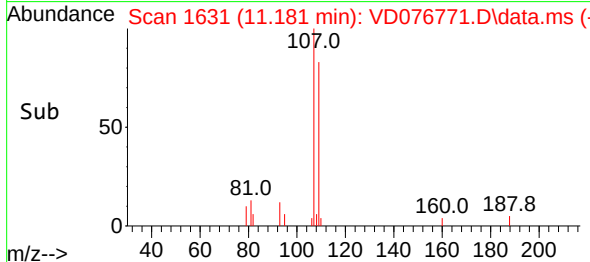
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



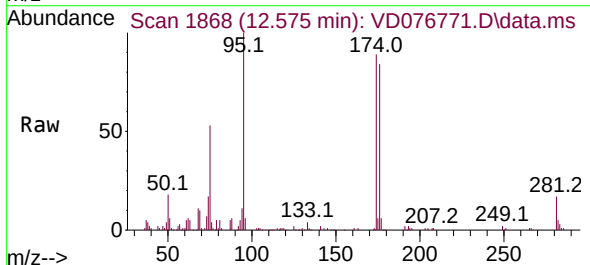
Tgt Ion:107 Resp: 7840
Ion Ratio Lower Upper
107 100
109 86.8 75.6 113.4

Manual Integrations
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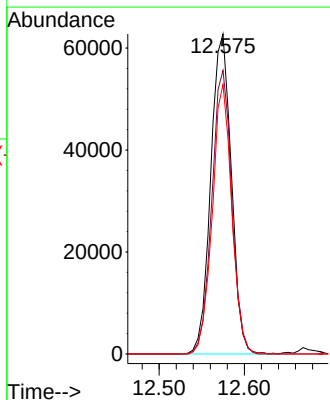
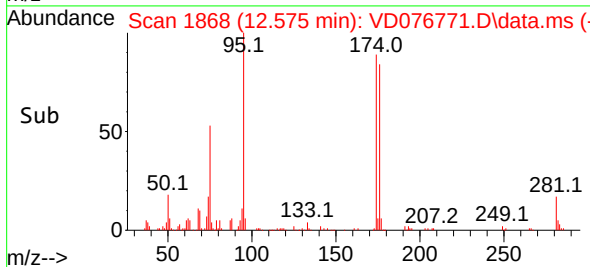
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

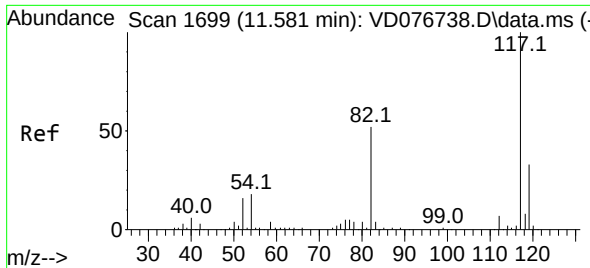


#62
4-Bromofluorobenzene
Concen: 45.740 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



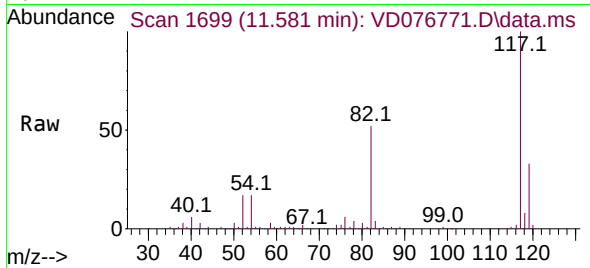
Tgt Ion: 95 Resp: 105059
Ion Ratio Lower Upper
95 100
174 86.1 0.0 201.8
176 79.8 0.0 191.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

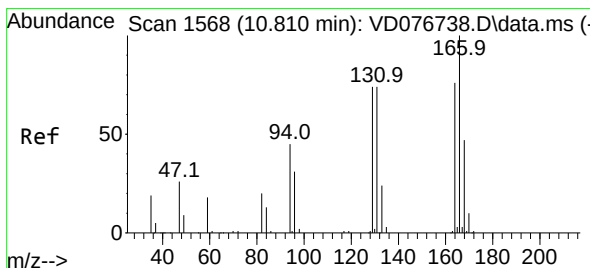
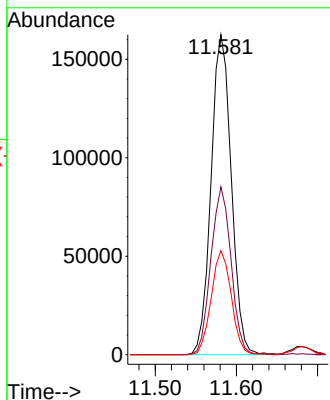
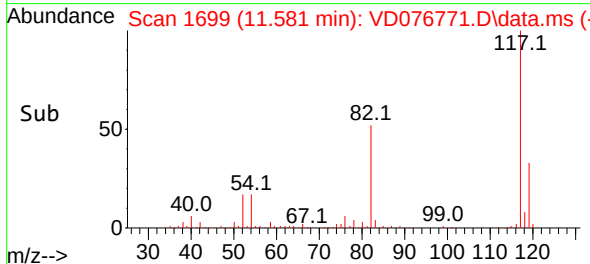
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:117 Resp: 28171
Ion Ratio Lower Upper
117 100
82 52.4 38.3 57.5
119 32.5 25.0 37.4

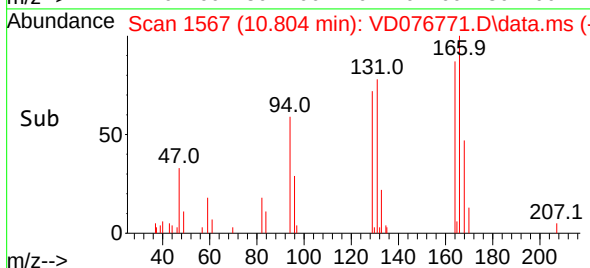
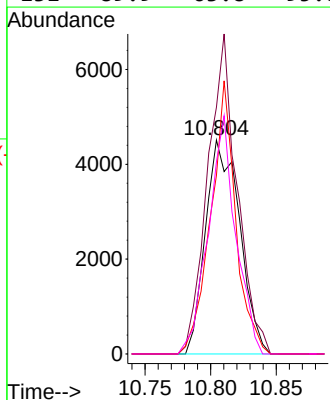
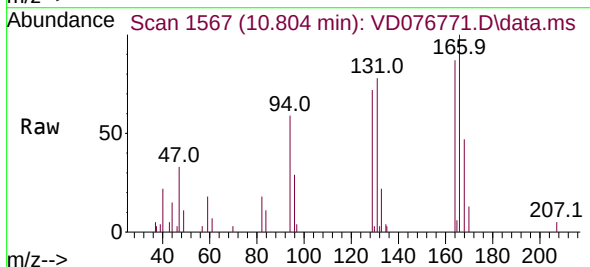
Manual Integrations
APPROVED

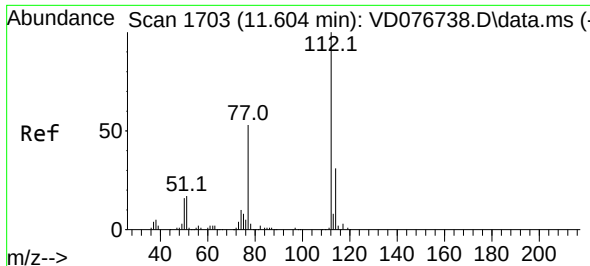
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#64
Tetrachloroethene
Concen: 5.080 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion:164 Resp: 8160
Ion Ratio Lower Upper
164 100
166 115.4 99.2 148.8
129 83.5 68.4 102.6
131 89.9 63.8 95.8





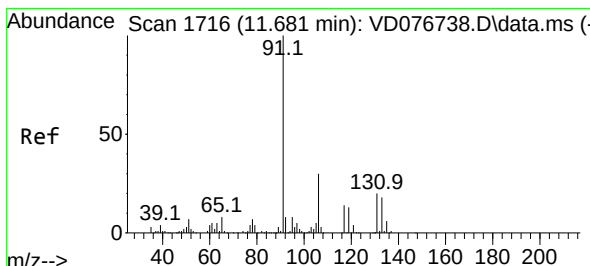
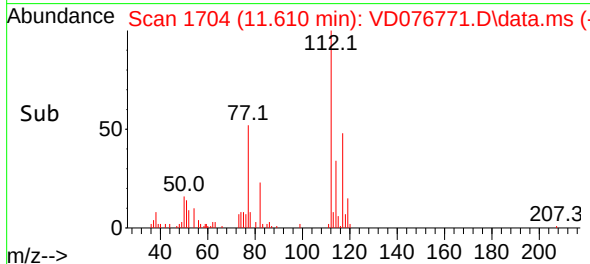
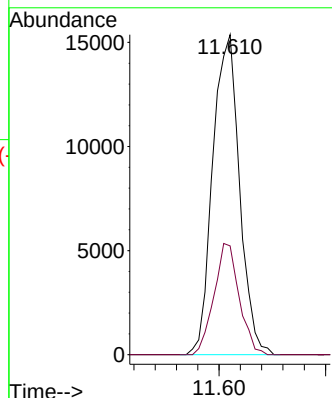
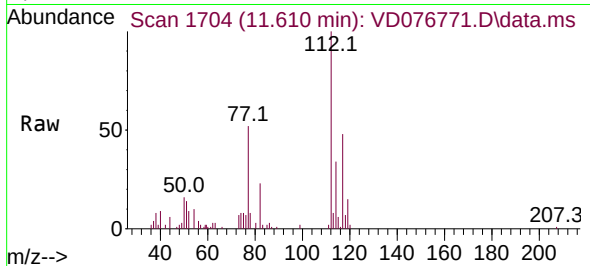
#65
Chlorobenzene
Concen: 4.733 ug/l
RT: 11.610 min Scan# 1704
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:112 Resp: 2681
Ion Ratio Lower Upper
112 100
114 34.0 25.1 37.7

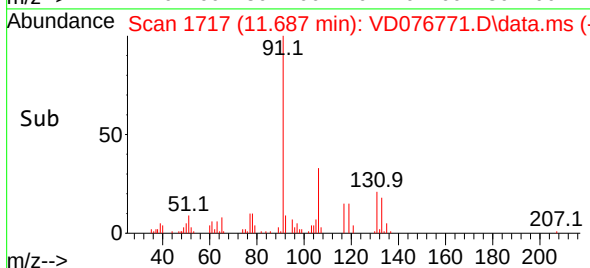
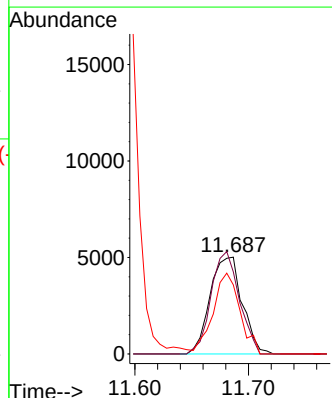
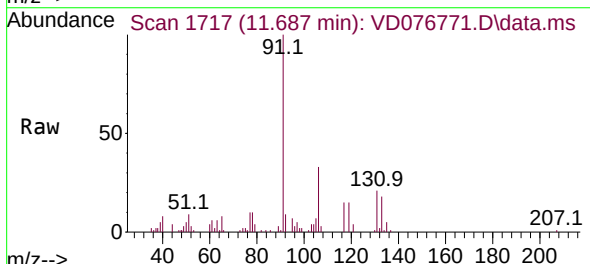
Manual Integrations
APPROVED

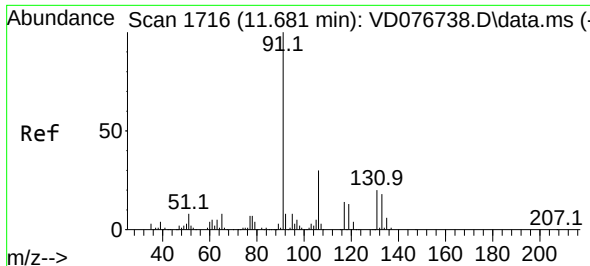
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#66
1,1,1,2-Tetrachloroethane
Concen: 4.686 ug/l
RT: 11.687 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

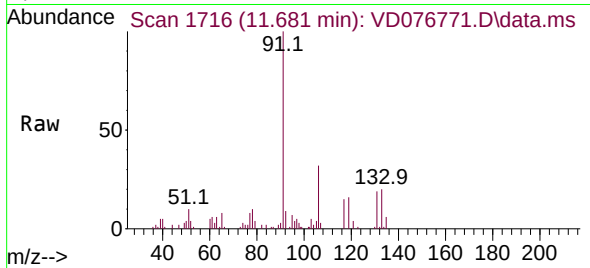
Tgt Ion:131 Resp: 9885
Ion Ratio Lower Upper
131 100
133 92.5 48.5 145.5
119 69.7 35.6 106.9





#67
Ethyl Benzene
Concen: 4.436 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

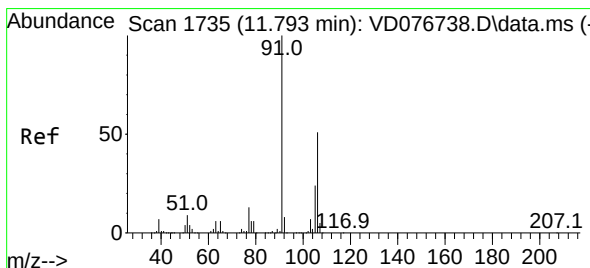
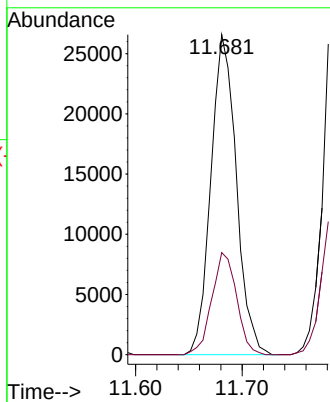
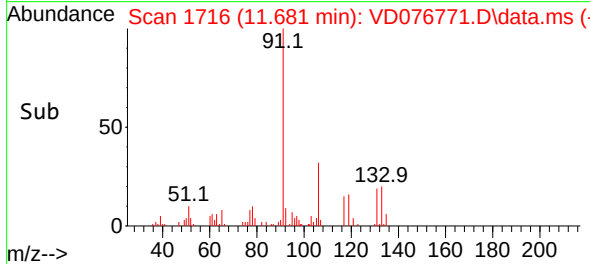
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



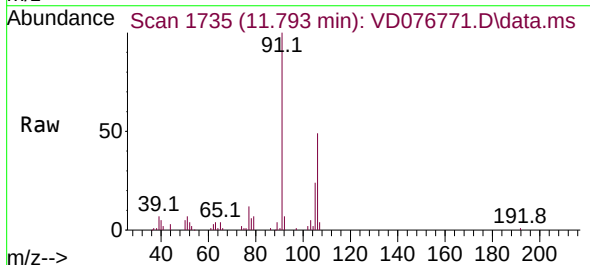
Tgt Ion: 91 Resp: 44138
Ion Ratio Lower Upper
91 100
106 31.9 26.5 39.7

Manual Integrations
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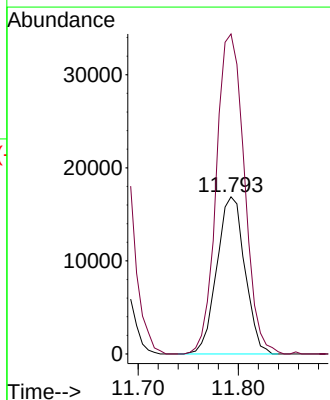
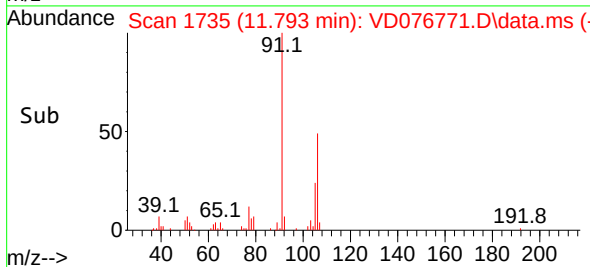
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

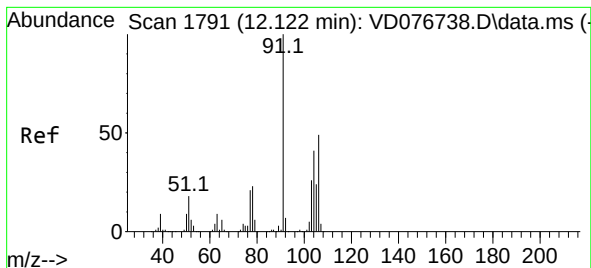


#68
m/p-Xylenes
Concen: 8.567 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



Tgt Ion:106 Resp: 32737
Ion Ratio Lower Upper
106 100
91 203.8 147.0 220.6





#69

o-Xylene

Concen: 4.199 ug/l

RT: 12.122 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:106 Resp: 15510

Ion Ratio Lower Upper

106 100

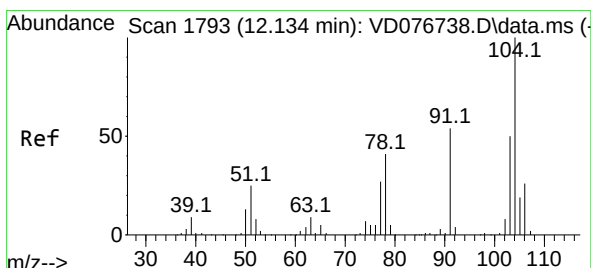
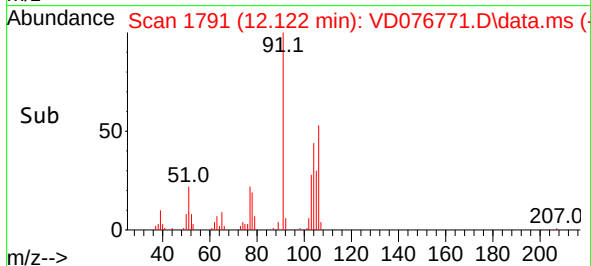
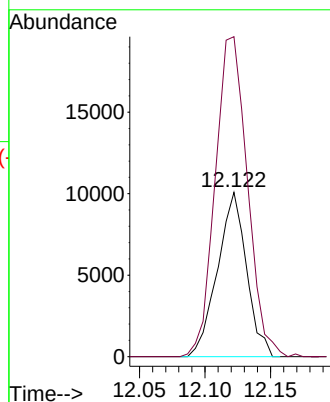
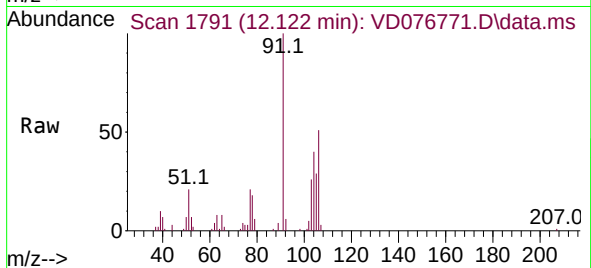
91 215.9 97.9 293.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#70

Styrene

Concen: 3.931 ug/l

RT: 12.134 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

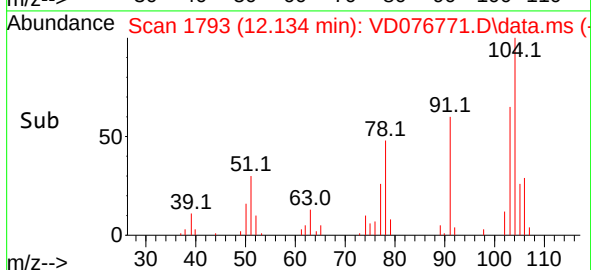
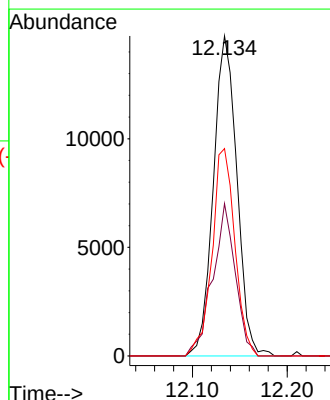
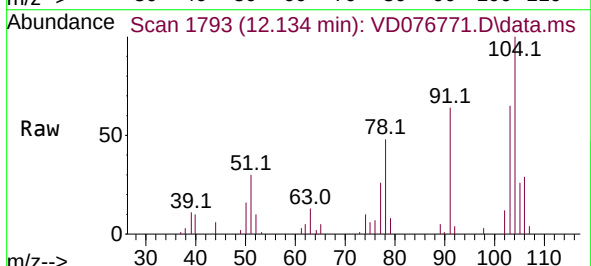
Tgt Ion:104 Resp: 25430

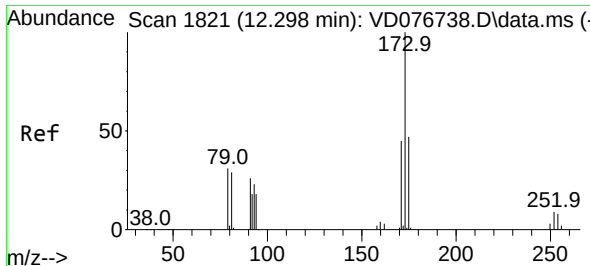
Ion Ratio Lower Upper

104 100

78 46.1 33.2 49.8

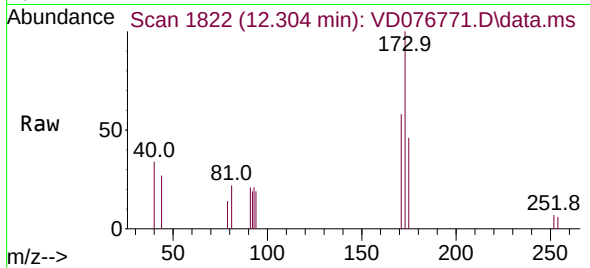
103 62.8 43.6 65.4





#71
Bromoform
Concen: 4.305 ug/l
RT: 12.304 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

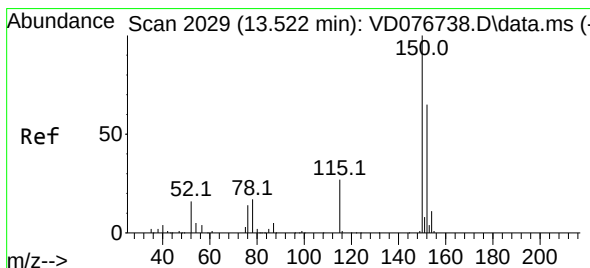
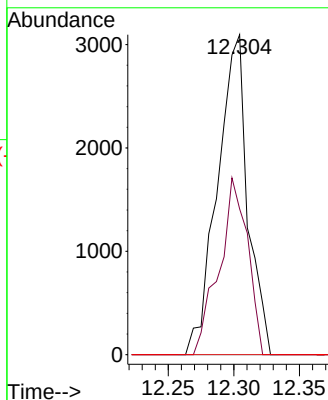
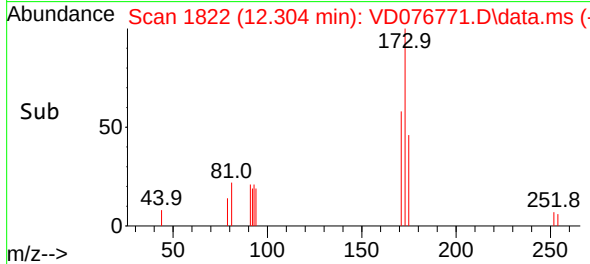
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:173 Resp: 497
Ion Ratio Lower Upper
173 100
175 52.0 24.6 73.8
254 0.0 0.0 0.0

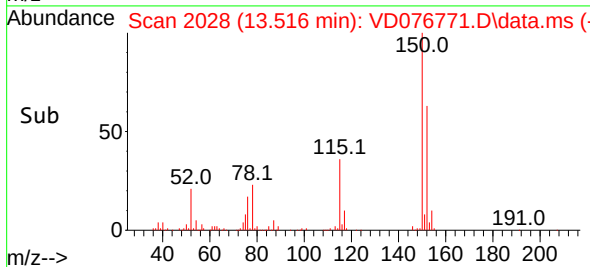
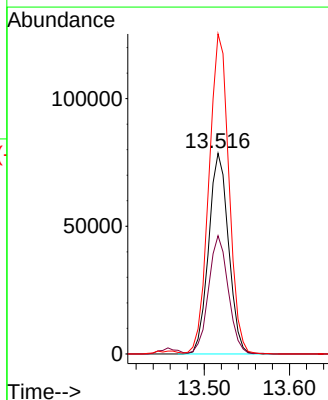
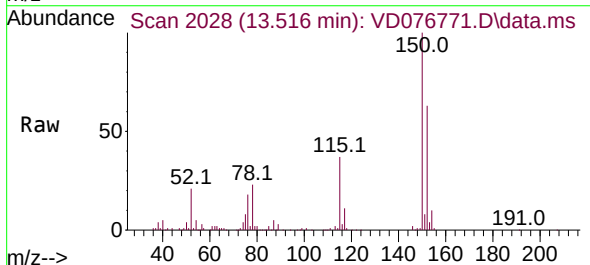
Manual Integrations
APPROVED

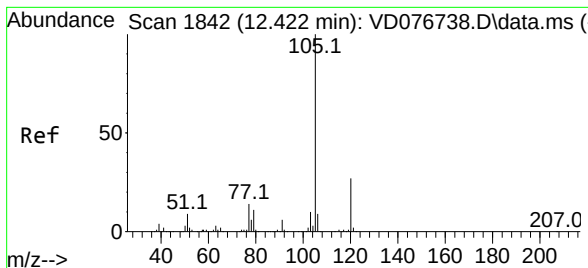
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

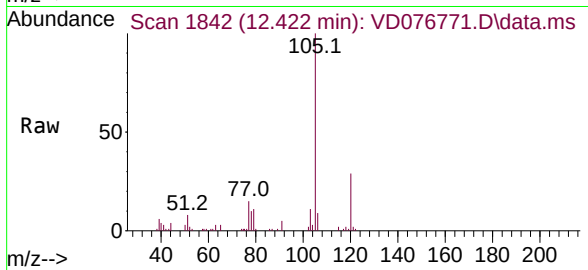
Tgt Ion:152 Resp: 126990
Ion Ratio Lower Upper
152 100
115 58.6 27.1 81.3
150 160.5 0.0 353.6





#73
Isopropylbenzene
Concen: 4.640 ug/l
RT: 12.422 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

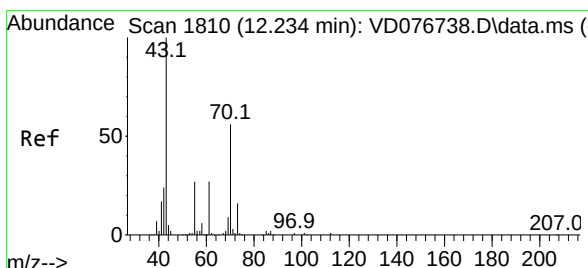
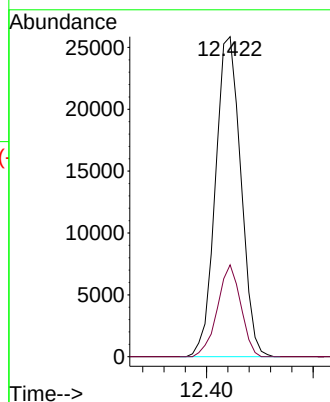
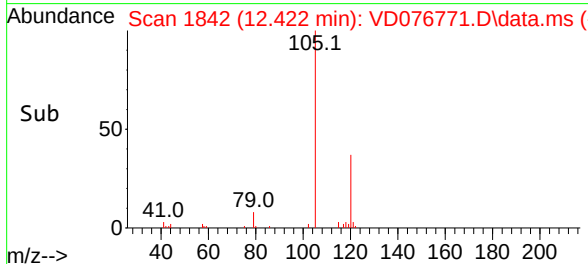
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:105 Resp: 4274
Ion Ratio Lower Upper
105 100
120 26.3 14.3 42.9

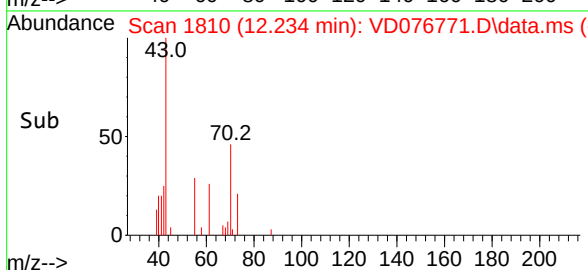
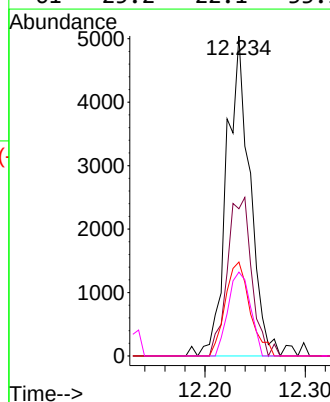
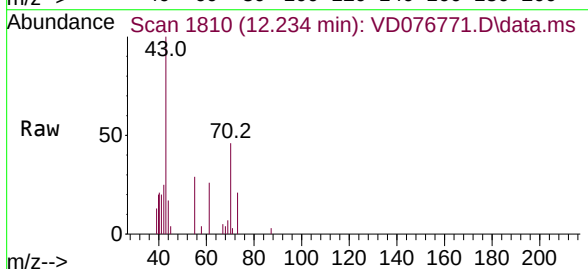
Manual Integrations
APPROVED

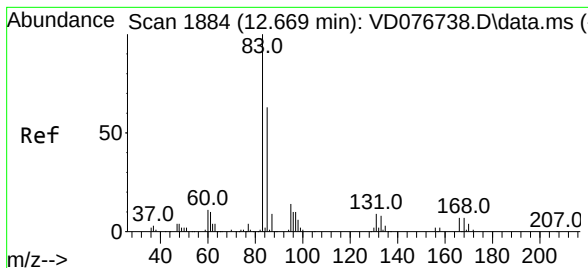
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#74
N-ethyl acetate
Concen: 4.191 ug/l
RT: 12.234 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 43 Resp: 8135
Ion Ratio Lower Upper
43 100
70 52.0 45.0 67.4
55 31.3 23.8 35.6
61 25.2 22.1 33.1





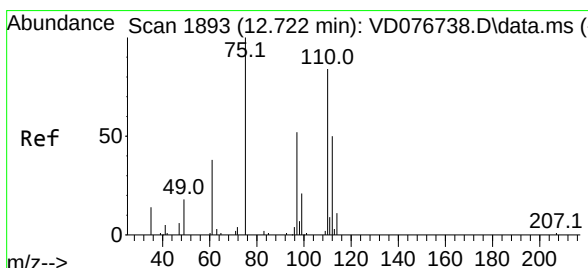
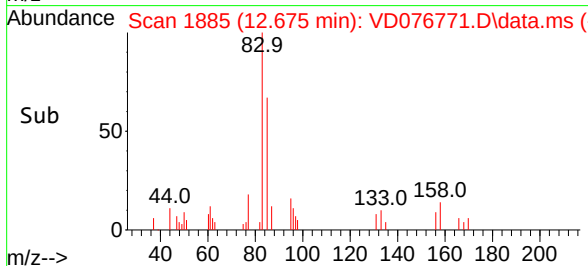
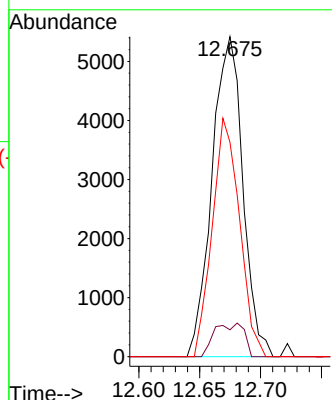
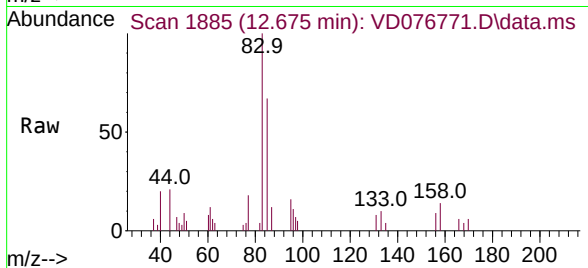
#75
1,1,2,2-Tetrachloroethane
Concen: 4.823 ug/l
RT: 12.675 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion: 83 Resp: 9540
Ion Ratio Lower Upper
83 100
131 10.1 5.1 15.3
85 65.8 32.6 97.8

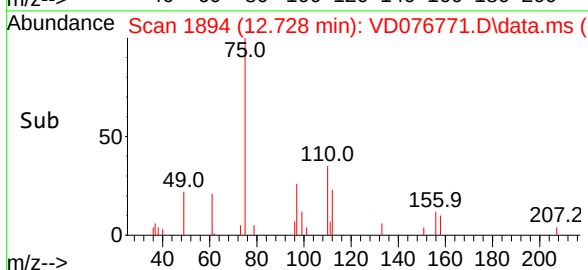
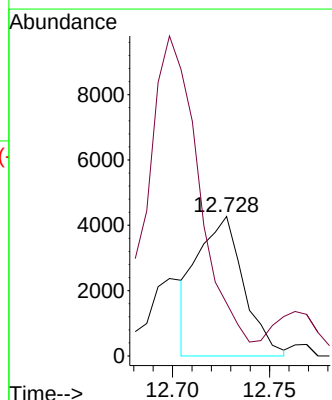
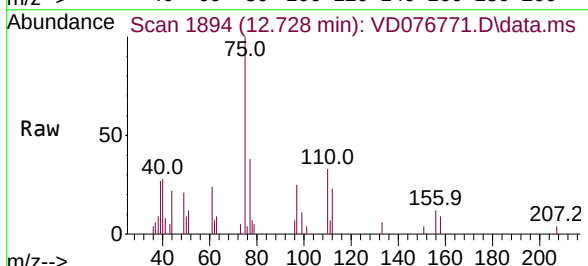
Manual Integrations
APPROVED

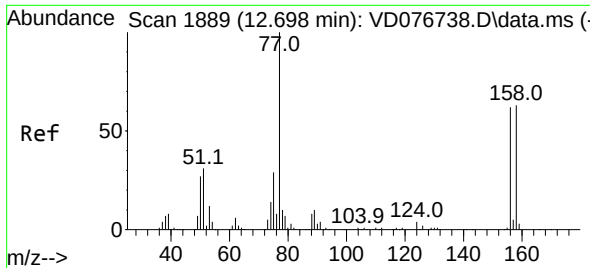
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#76
1,2,3-Trichloropropane
Concen: 5.863 ug/l m
RT: 12.728 min Scan# 1894
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 75 Resp: 7081
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





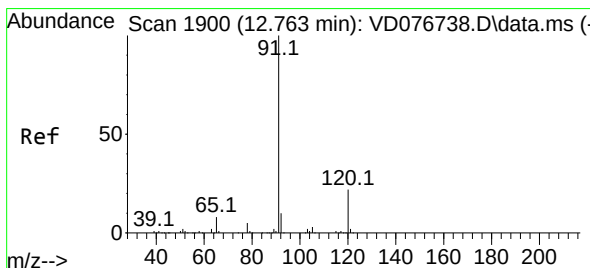
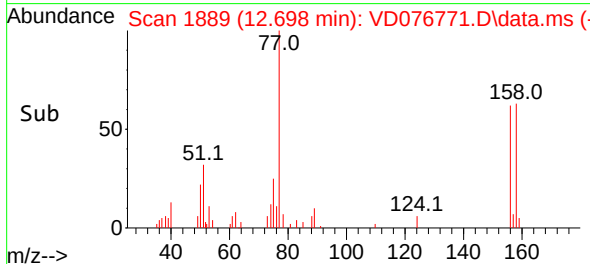
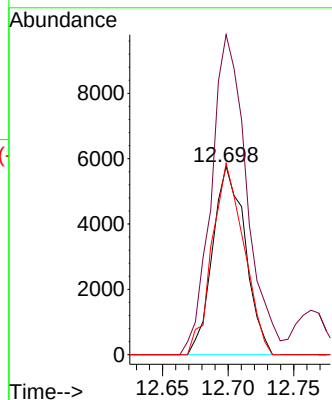
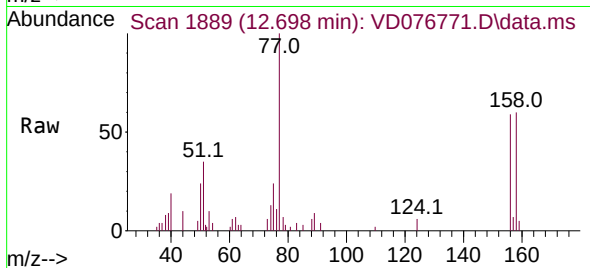
#77
Bromobenzene
Concen: 4.681 ug/l
RT: 12.698 min Scan# 1889
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:156 Resp: 9954
Ion Ratio Lower Upper
156 100
77 185.0 76.8 230.4
158 99.6 48.6 145.9

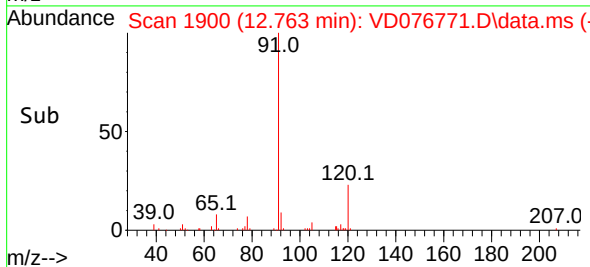
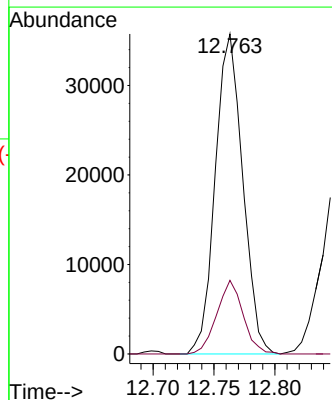
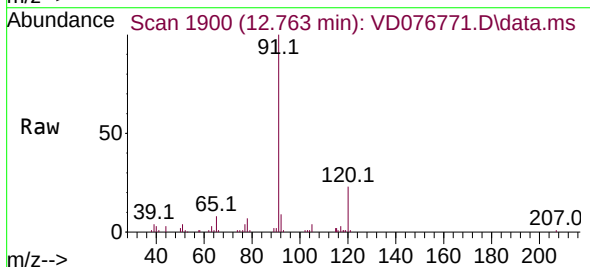
Manual Integrations
APPROVED

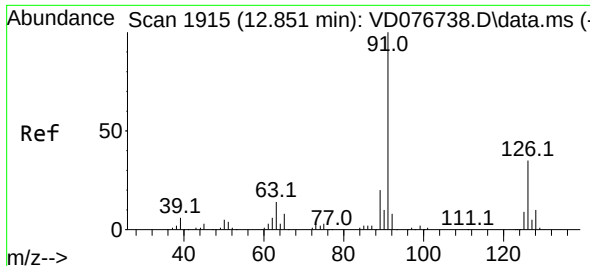
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#78
n-propylbenzene
Concen: 5.018 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion: 91 Resp: 56051
Ion Ratio Lower Upper
91 100
120 22.0 12.4 37.2





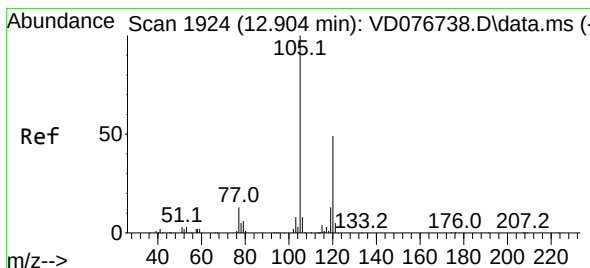
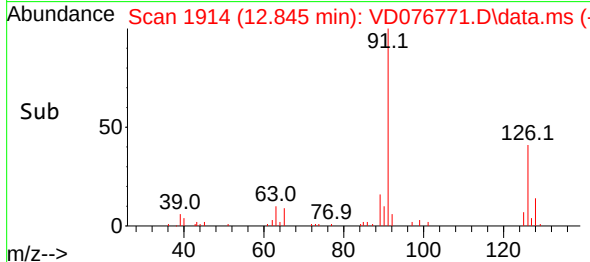
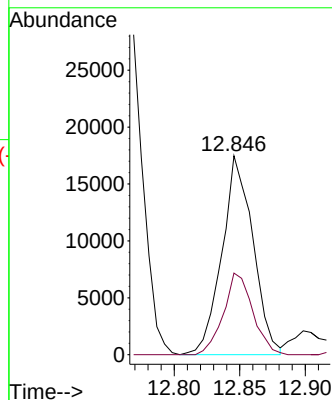
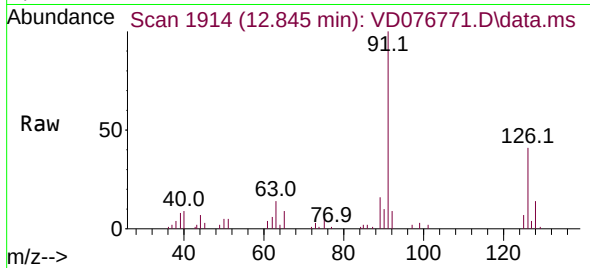
#79
2-Chlorotoluene
Concen: 4.703 ug/l
RT: 12.845 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 2880
Ion Ratio Lower Upper
91 100
126 38.7 19.4 58.1

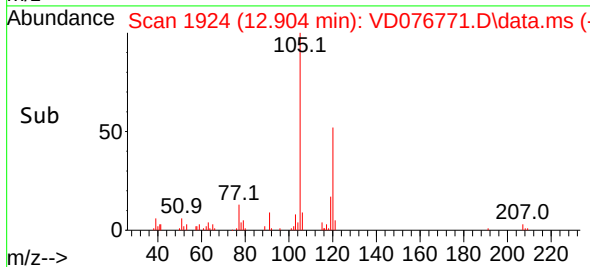
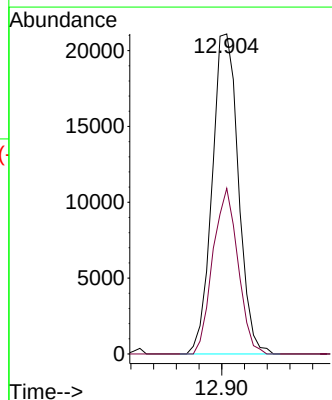
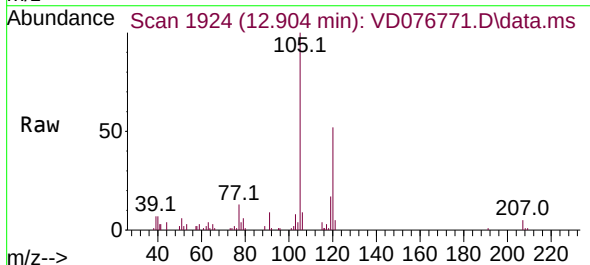
Manual Integrations
APPROVED

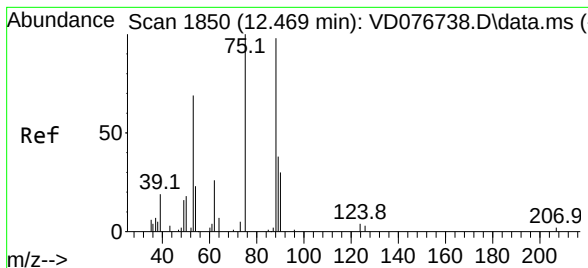
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#80
1,3,5-Trimethylbenzene
Concen: 4.546 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

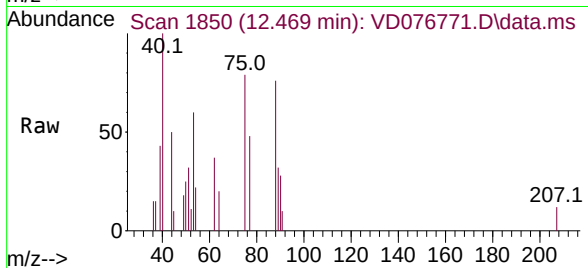
Tgt Ion:105 Resp: 33867
Ion Ratio Lower Upper
105 100
120 49.4 26.4 79.2





#81
trans-1,4-Dichloro-2-butene
Concen: 4.120 ug/l
RT: 12.469 min Scan# 1850
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

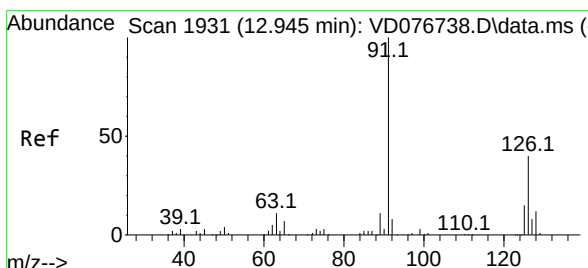
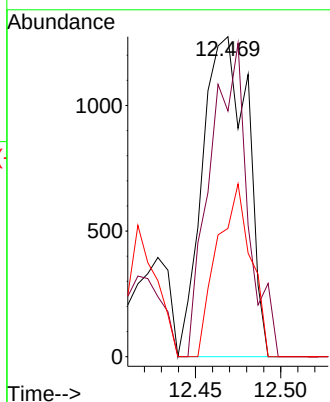
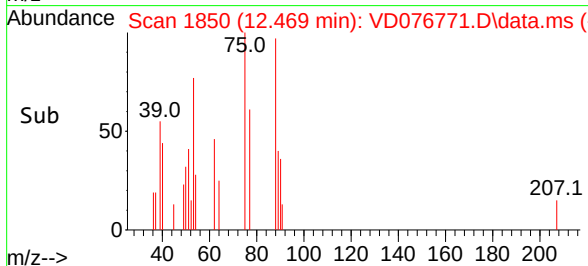
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



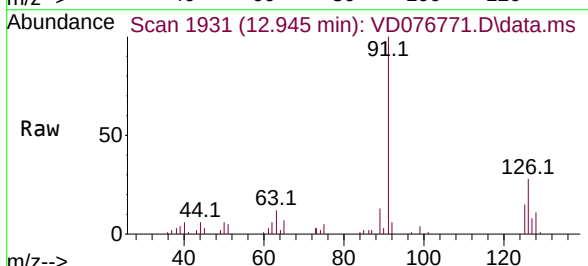
Tgt Ion: 75 Resp: 2338
Ion Ratio Lower Upper
75 100
53 82.1 63.0 94.4
89 40.7 37.9 56.9

Manual Integrations
APPROVED

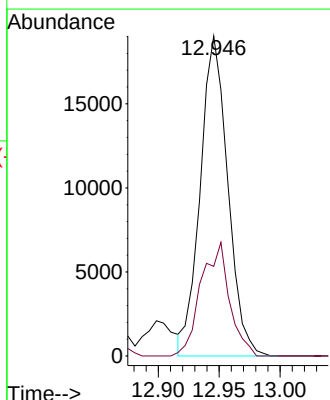
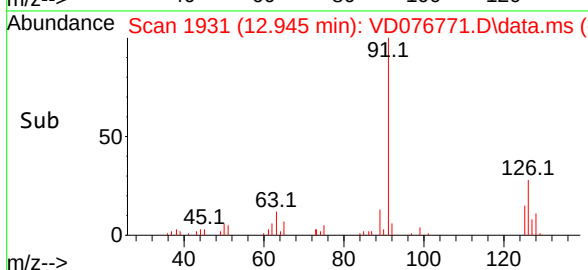
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

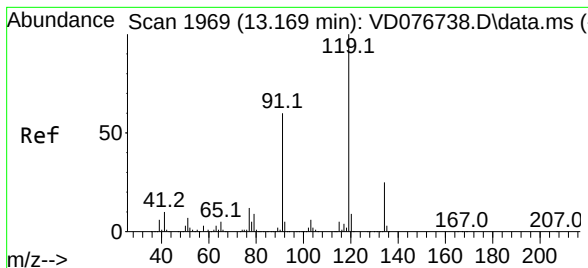


#82
4-Chlorotoluene
Concen: 4.680 ug/l
RT: 12.945 min Scan# 1931
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



Tgt Ion: 91 Resp: 29941
Ion Ratio Lower Upper
91 100
126 36.8 19.4 58.4





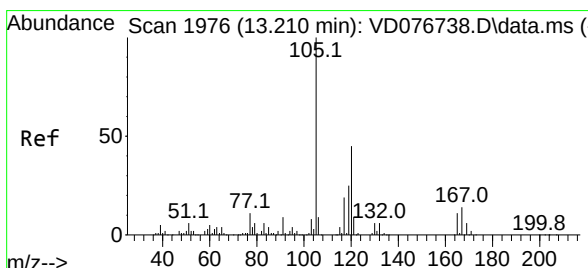
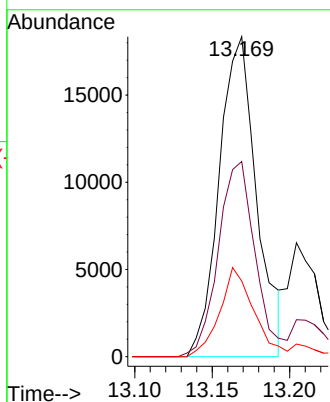
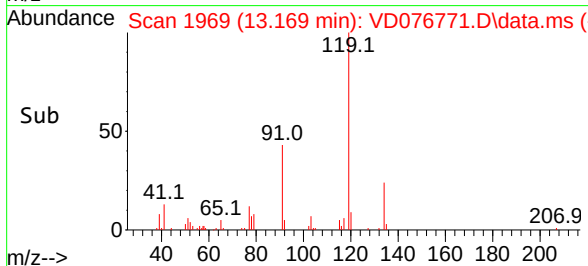
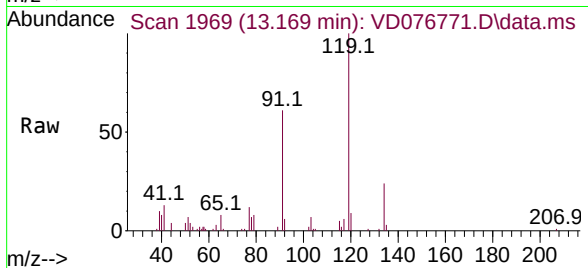
#83
tert-Butylbenzene
Concen: 4.701 ug/l
RT: 13.169 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:119 Resp: 30830
Ion Ratio Lower Upper
119 100
91 60.5 29.3 87.8
134 25.3 14.1 42.3

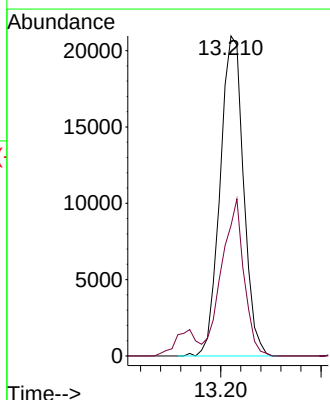
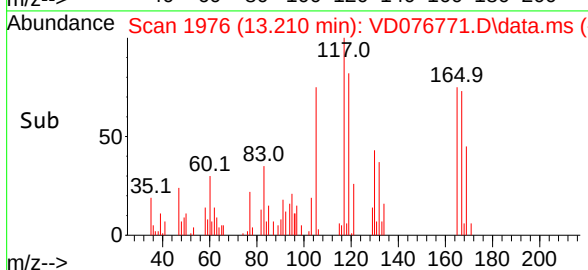
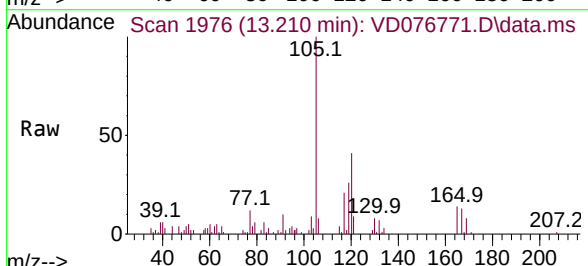
Manual Integrations
APPROVED

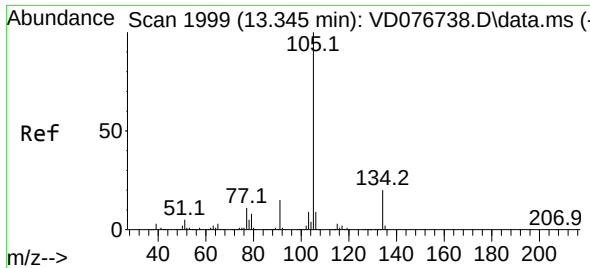
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#84
1,2,4-Trimethylbenzene
Concen: 4.464 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion:105 Resp: 33988
Ion Ratio Lower Upper
105 100
120 46.6 24.3 72.9





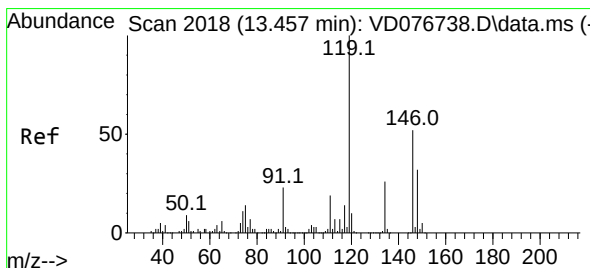
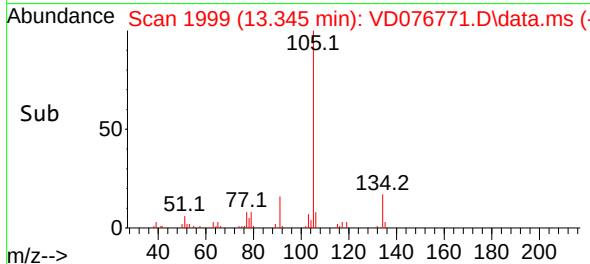
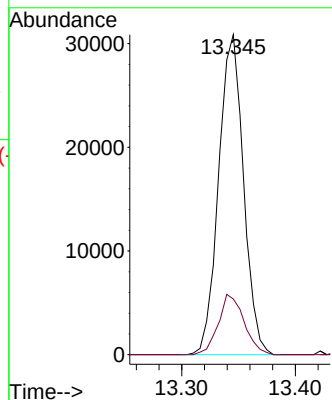
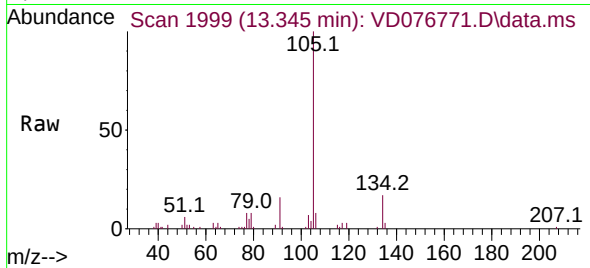
#85
 sec-Butylbenzene
 Concen: 4.683 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00

Instrument : MSVOA_D
 ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion:105 Resp: 4693
 Ion Ratio Lower Upper
 105 100
 134 19.5 10.9 32.9

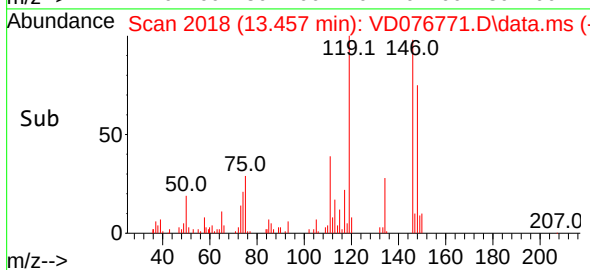
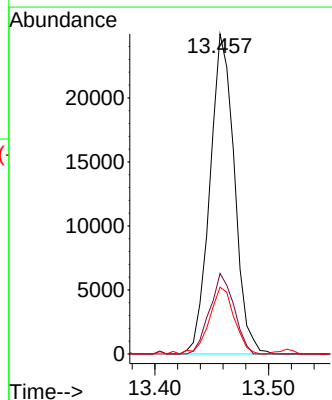
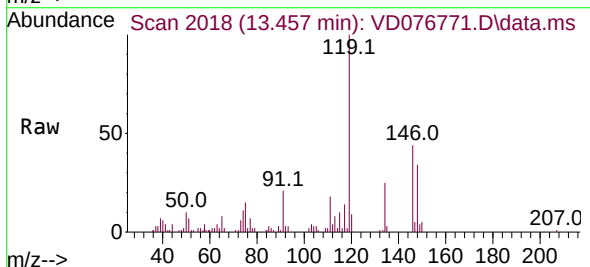
Manual Integrations
 APPROVED

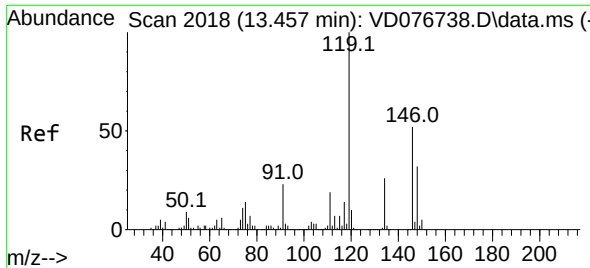
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023



#86
 p-Isopropyltoluene
 Concen: 4.511 ug/l
 RT: 13.457 min Scan# 2018
 Delta R.T. 0.000 min
 Lab File: VD076771.D
 Acq: 18 Jul 2023 12:00

Tgt Ion:119 Resp: 37337
 Ion Ratio Lower Upper
 119 100
 134 25.0 14.2 42.6
 91 21.3 10.5 31.5





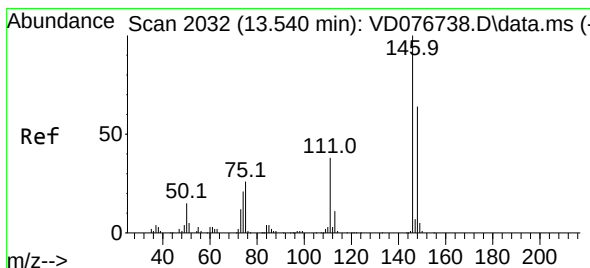
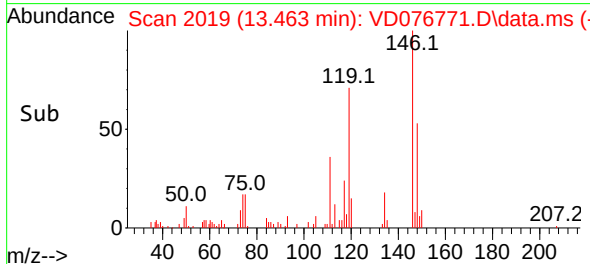
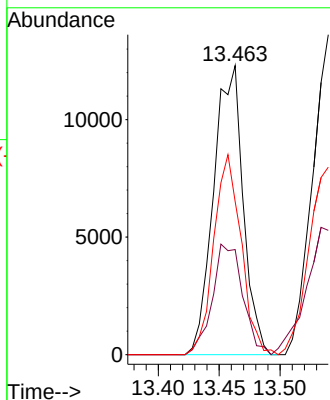
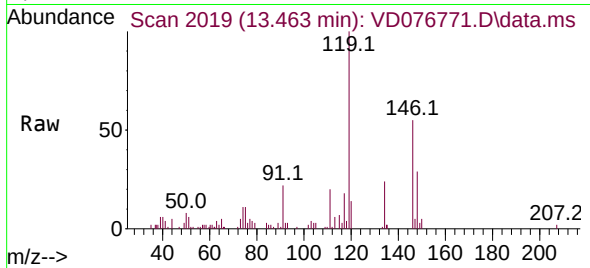
#87
1,3-Dichlorobenzene
Concen: 4.742 ug/l
RT: 13.463 min Scan# 2018
Delta R.T. 0.006 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:146 Resp: 20744
Ion Ratio Lower Upper
146 100
111 39.3 17.9 53.8
148 64.2 32.3 96.8

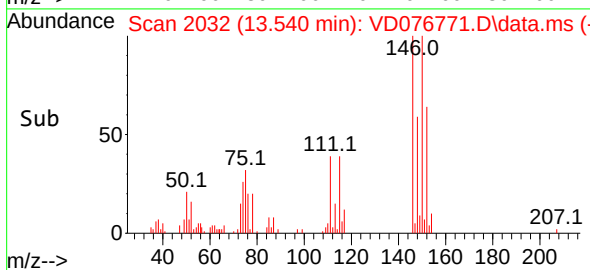
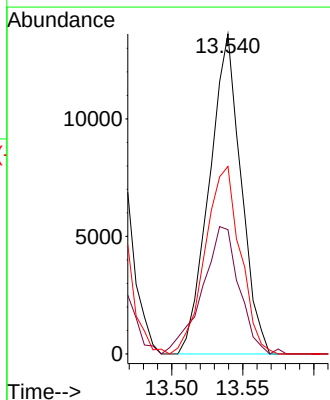
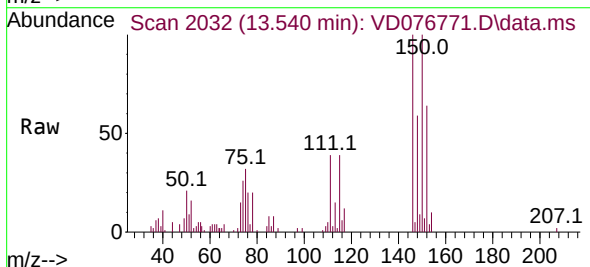
Manual Integrations
APPROVED

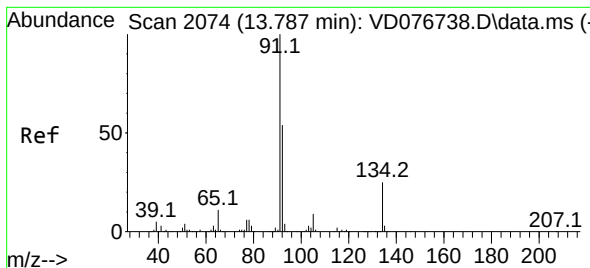
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#88
1,4-Dichlorobenzene
Concen: 4.933 ug/l
RT: 13.540 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

Tgt Ion:146 Resp: 21139
Ion Ratio Lower Upper
146 100
111 46.5 17.4 52.3
148 65.0 31.7 95.1





#89

n-Butylbenzene

Concen: 4.594 ug/l

RT: 13.787 min Scan# 2074

Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

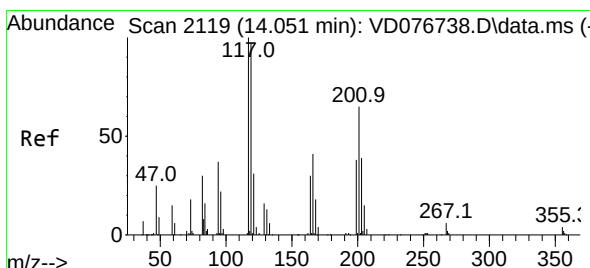
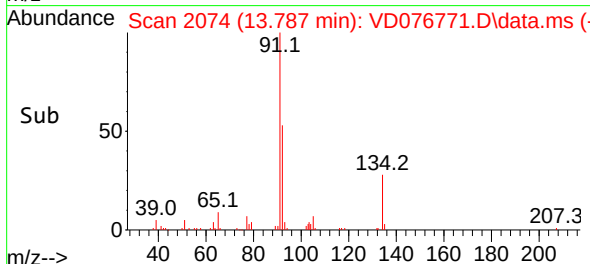
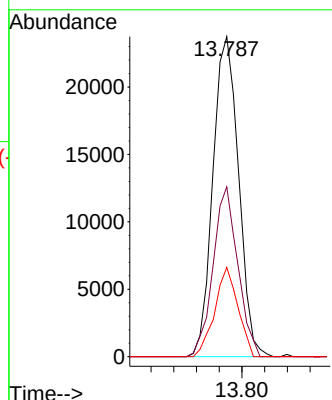
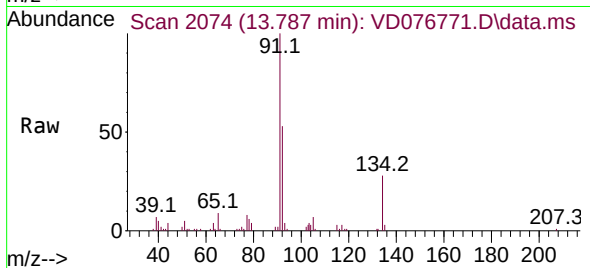
Tgt Ion: 91	Resp: 37210
Ion Ratio	Lower Upper
91 100	
92 51.2	26.5 79.5
134 25.2	13.8 41.3

Manual Integrations

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Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#90

Hexachloroethane

Concen: 4.987 ug/l

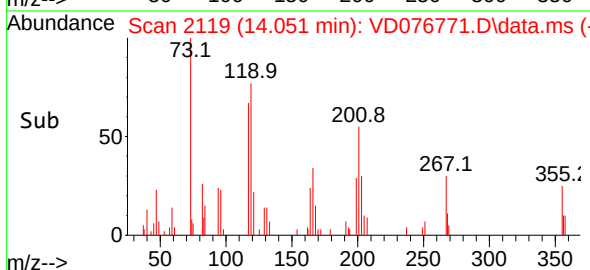
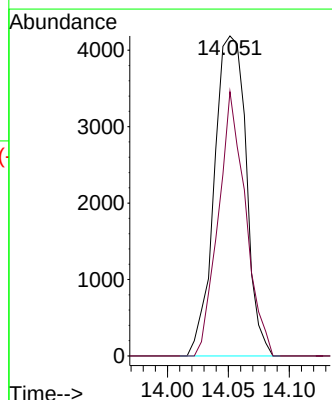
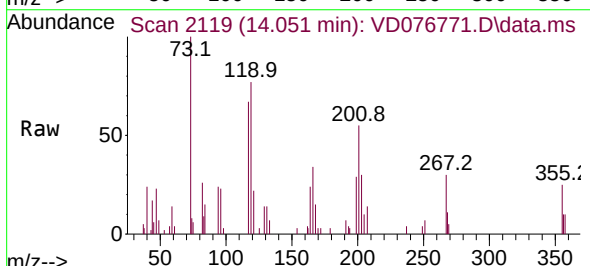
RT: 14.051 min Scan# 2119

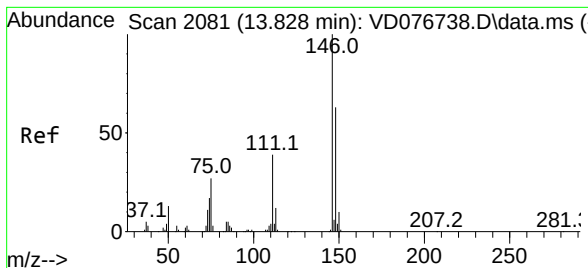
Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

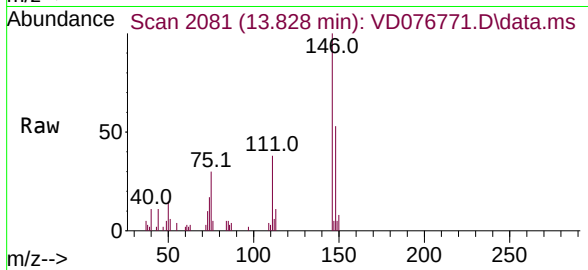
Tgt Ion: 117	Resp: 7631
Ion Ratio	Lower Upper
117 100	
201 70.6	38.5 115.5





#91
1,2-Dichlorobenzene
Concen: 4.867 ug/l
RT: 13.828 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00

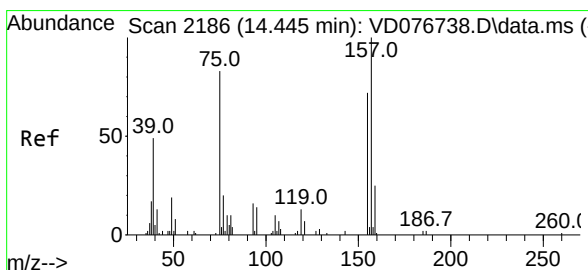
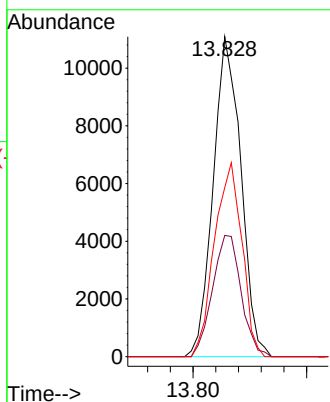
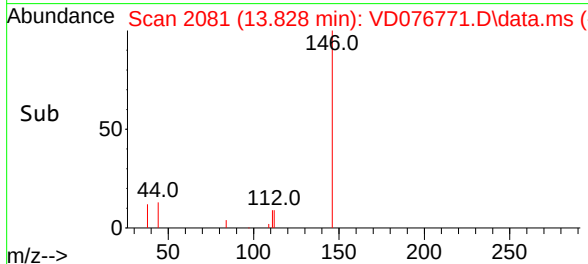
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



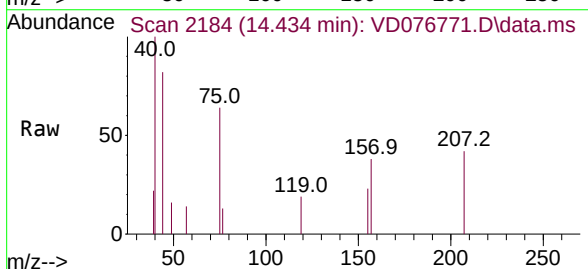
Tgt Ion: 146 Resp: 1876
Ion Ratio Lower Upper
146 100
111 39.2 18.3 54.8
148 60.2 31.6 94.7

Manual Integrations
APPROVED

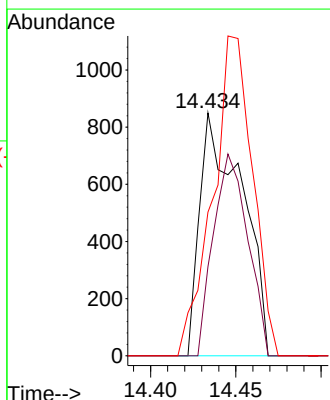
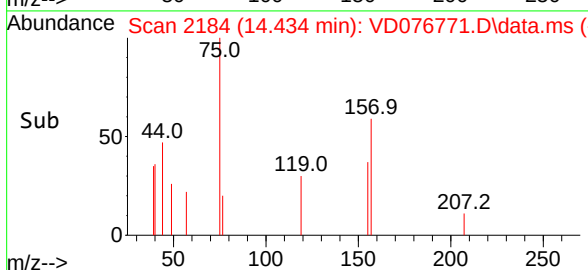
Reviewed By : John Carlone 07/19/2023
Supervised By : Mahesh Dadoda 07/19/2023

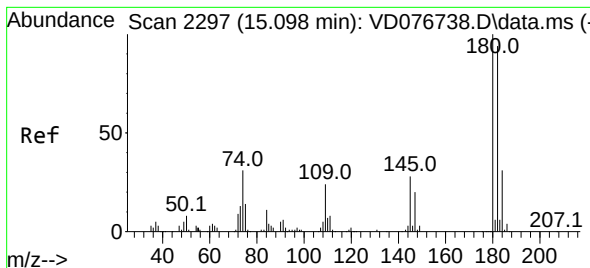


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.194 ug/l
RT: 14.434 min Scan# 2184
Delta R.T. -0.011 min
Lab File: VD076771.D
Acq: 18 Jul 2023 12:00



Tgt Ion: 75 Resp: 1465
Ion Ratio Lower Upper
75 100
155 67.4 47.9 143.8
157 123.8 59.9 179.7





#93

1,2,4-Trichlorobenzene

Concen: 4.486 ug/l

RT: 15.098 min Scan# 2297

Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

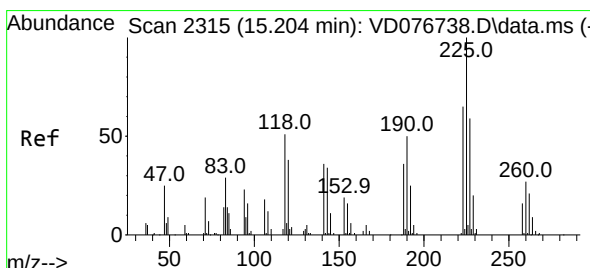
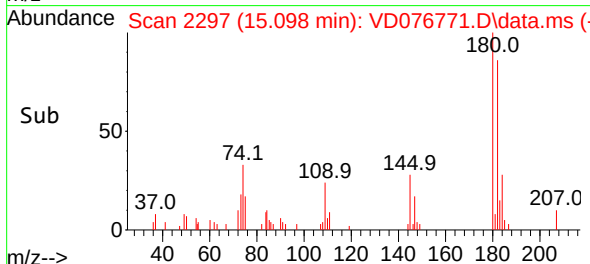
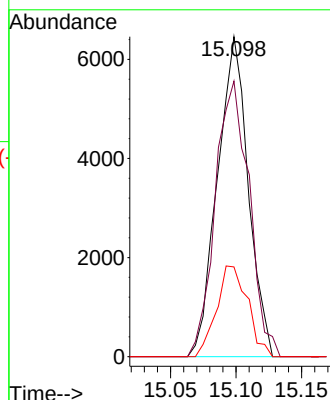
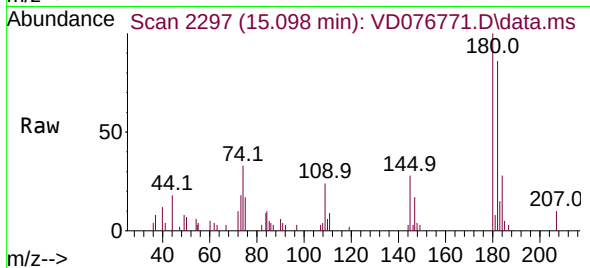
Tgt Ion:180	Resp:	10550
Ion Ratio	Lower	Upper
180	100	
182	94.6	48.5 145.6
145	28.6	14.2 42.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#94

Hexachlorobutadiene

Concen: 4.971 ug/l

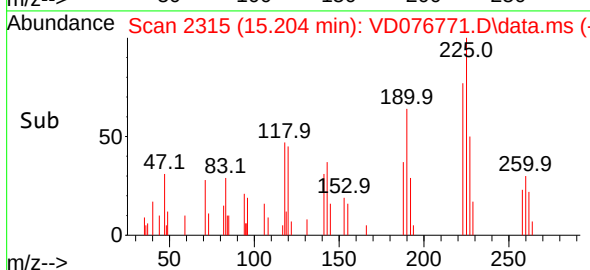
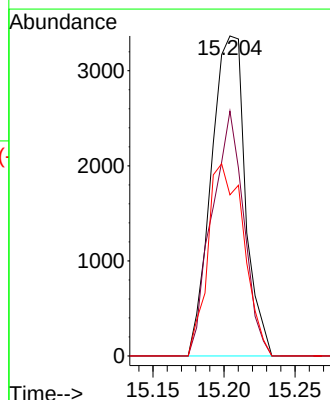
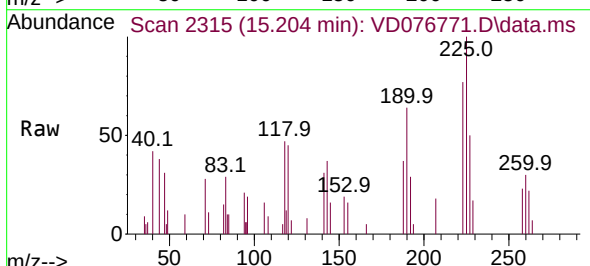
RT: 15.204 min Scan# 2315

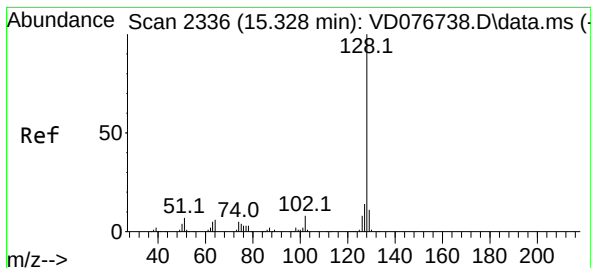
Delta R.T. 0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Tgt Ion:225	Resp:	5626
Ion Ratio	Lower	Upper
225	100	
223	71.2	31.6 94.8
227	63.3	31.7 95.1





#95

Naphthalene

Concen: 4.146 ug/l

RT: 15.334 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

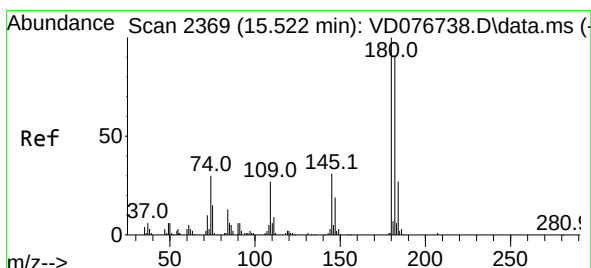
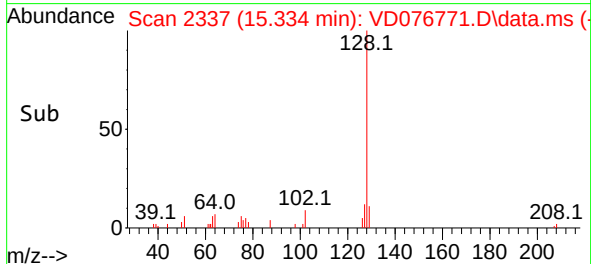
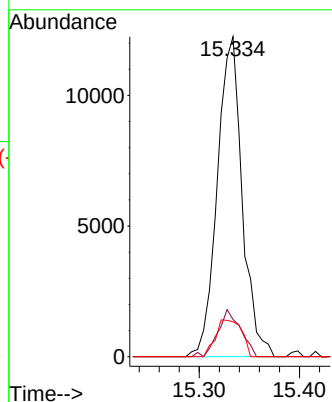
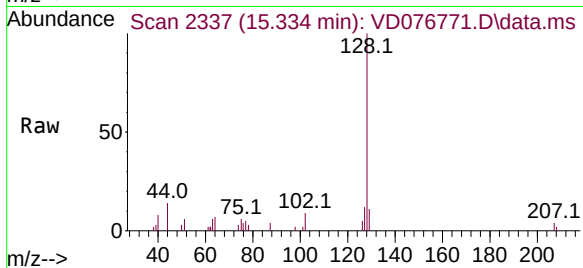
Tgt Ion:	128	Resp:	2112
Ion Ratio	Lower	Upper	
128	100		
127	11.7	10.5	15.7
129	10.9	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#96

1,2,3-Trichlorobenzene

Concen: 4.490 ug/l

RT: 15.522 min Scan# 2369

Delta R.T. -0.000 min

Lab File: VD076771.D

Acq: 18 Jul 2023 12:00

Tgt Ion:	180	Resp:	9482
Ion Ratio	Lower	Upper	
180	100		
182	89.9	47.3	141.9
145	33.0	15.1	45.3

