

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041723\
 Data File : VW030588.D
 Acq On : 17 Apr 2023 14:59
 Operator : SY/MD
 Sample : 02215-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT2-2023-03

Quant Time: Apr 18 04:01:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM041723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 18 02:45:56 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/18/2023
 Supervised By : Mahesh Dadoda 04/18/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	252491	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	248045	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	122813	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	82819	44.744	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	89.480%		
7) Chloroethane-d5	1.539	69	68589	44.220	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.440%		
11) 1,1-Dichloroethene-d2	2.066	65	38971	44.397	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.800%		
21) 2-Butanone-d5	3.802	46	102199m	100.525	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	100.520%		
24) Chloroform-d	4.259	84	144764	43.157	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.320%		
26) 1,2-Dichloroethane-d4	4.954	65	102792	47.664	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.320%		
32) Benzene-d6	4.973	84	276035	47.069	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.140%		
36) 1,2-Dichloropropane-d6	5.998	67	86921	47.715	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	95.440%		
41) Toluene-d8	7.252	98	244803	44.460	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.920%		
43) trans-1,3-Dichloroprop...	7.561	79	40809	44.447	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.900%		
47) 2-Hexanone-d5	8.034	63	63676	88.732	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	88.730%		
56) 1,1,2,2-Tetrachloroeth...	10.162	84	114839	43.445	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	86.880%		
66) 1,2-Dichlorobenzene-d4	11.571	152	97441	49.917	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.840%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	4463	2.056	ug/L	97
3) Chloromethane	1.217	50	8190	2.876	ug/L	92
5) Vinyl chloride	1.288	62	5072	2.209	ug/L #	59
6) Bromomethane	1.494	94	2676	2.939	ug/L	95
8) Chloroethane	1.555	64	3367	2.138	ug/L	100
9) Trichlorofluoromethane	1.719	101	7707	2.071	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	5197	2.658	ug/L #	84
12) 1,1-Dichloroethene	2.076	96	4718	2.669	ug/L #	1
13) Acetone	2.130	43	7110m	4.520	ug/L	
14) Carbon disulfide	2.249	76	11211	2.245	ug/L #	93
15) Methyl Acetate	2.388	43	5058m	2.409	ug/L	
16) Methylene chloride	2.455	84	6508	3.217	ug/L	89
17) trans-1,2-Dichloroethene	2.706	96	3874	2.171	ug/L	90
18) Methyl tert-butyl Ether	2.712	73	12220	2.138	ug/L #	93
19) 1,1-Dichloroethane	3.124	63	7675	2.109	ug/L	87
20) cis-1,2-Dichloroethene	3.828	96	4502	2.319	ug/L	94
22) 2-Butanone	3.918	43	8166m	5.023	ug/L	
23) Bromochloromethane	4.179	128	2773m	2.557	ug/L	
25) Chloroform	4.288	83	8849	2.349	ug/L	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.063	62	7747m	2.430	ug/L	
29) Cyclohexane	4.597	56	5898	1.981	ug/L	97
30) 1,1,1-Trichloroethane	4.532	97	7185	2.061	ug/L	92
31) Carbon tetrachloride	4.748	117	6315	2.027	ug/L	87
33) Benzene	5.027	78	15556	2.065	ug/L	100
34) Trichloroethene	5.851	95	4235m	2.162	ug/L	
35) Methylcyclohexane	6.063	83	6568	2.139	ug/L	93
37) 1,2-Dichloropropane	6.108	63	5015m	2.474	ug/L	
38) Bromodichloromethane	6.445	83	6089	2.138	ug/L	96
39) cis-1,3-Dichloropropene	6.970	75	6776m	2.227	ug/L	
40) 4-Methyl-2-pentanone	7.175	43	11157m	3.940	ug/L	
42) Toluene	7.330	91	15583	1.931	ug/L	93
44) trans-1,3-Dichloropropene	7.596	75	6983m	2.336	ug/L	
45) 1,1,2-Trichloroethane	7.780	97	4529	2.228	ug/L	91
46) Tetrachloroethene	7.915	164	3920	2.286	ug/L	95
48) 2-Hexanone	8.092	43	14538m	6.221	ug/L	
49) Dibromochloromethane	8.188	129	4377	1.952	ug/L	100
50) 1,2-Dibromoethane	8.294	107	4422	2.099	ug/L #	97
51) Chlorobenzene	8.822	112	11259	2.107	ug/L	97
52) Ethylbenzene	8.957	91	16524	1.850	ug/L	97
53) m,p-Xylene	9.085	106	6595	1.955	ug/L	98
54) o-Xylene	9.490	106	6292	1.906	ug/L	93
55) Styrene	9.506	104	9606	1.657	ug/L	90
57) 1,1,2,2-Tetrachloroethane	10.188	83	7555	2.264	ug/L #	96
59) Bromoform	9.677	173	3408	2.216	ug/L #	94
60) Isopropylbenzene	9.876	105	16521	2.157	ug/L	99
61) 1,2,3-Trichloropropane	10.217	75	5125	2.330	ug/L	93
62) 1,3,5-Trimethylbenzene	10.487	105	12393	1.965	ug/L	95
63) 1,2,4-Trimethylbenzene	10.860	105	12938	2.055	ug/L	96
64) 1,3-Dichlorobenzene	11.130	146	9017	2.351	ug/L	94
65) 1,4-Dichlorobenzene	11.220	146	9236	2.284	ug/L	100
67) 1,2-Dichlorobenzene	11.587	146	9658	2.497	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.378	75	1815	2.785	ug/L	88
69) 1,3,5-Trichlorobenzene	12.596	180	6278	2.167	ug/L	97
70) 1,2,4-trichlorobenzene	13.207	180	5677	2.308	ug/L	98
71) Naphthalene	13.448	128	14763	2.194	ug/L	99
72) 1,2,3-Trichlorobenzene	13.690	180	5456	2.237	ug/L	93

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

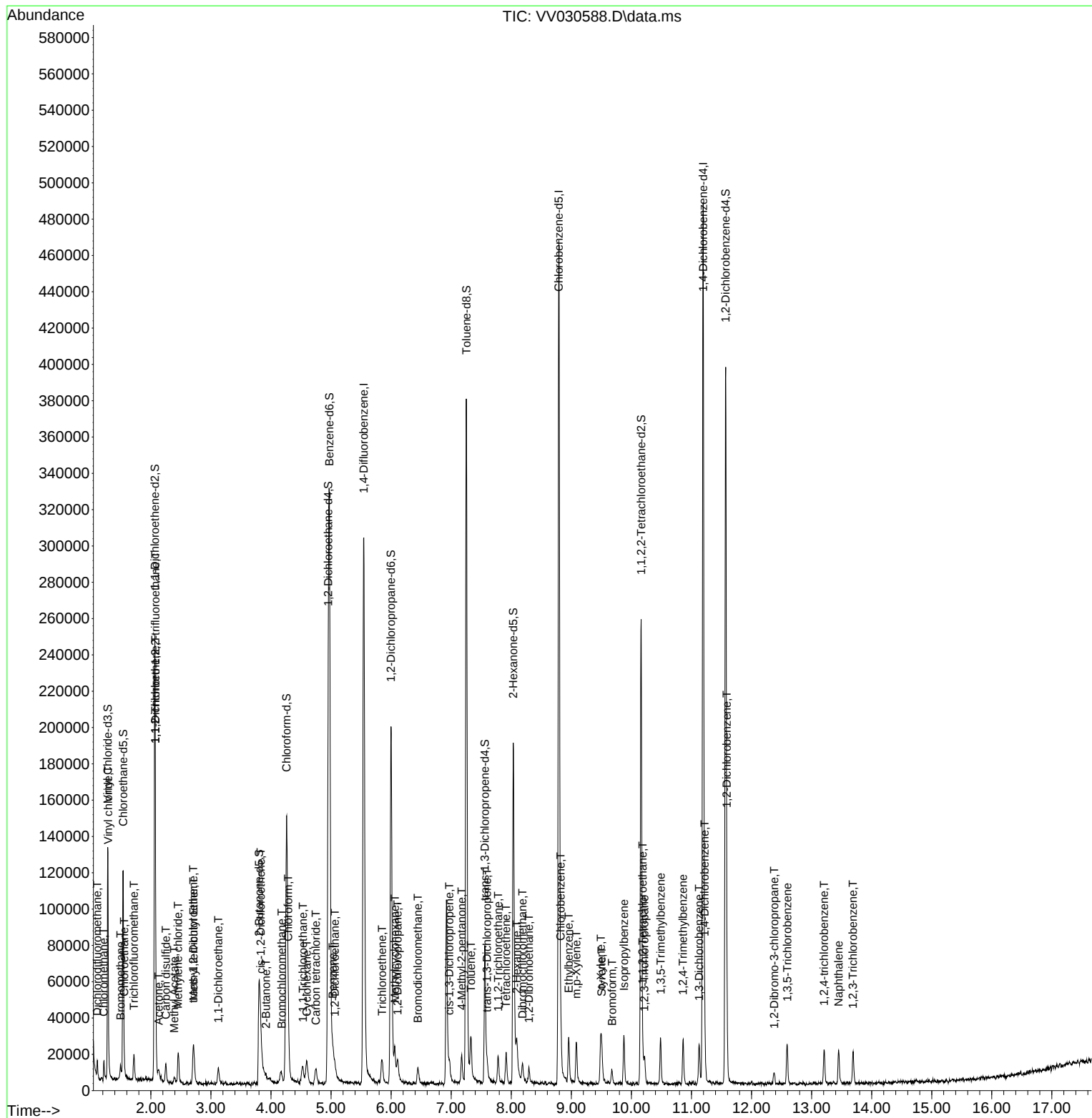
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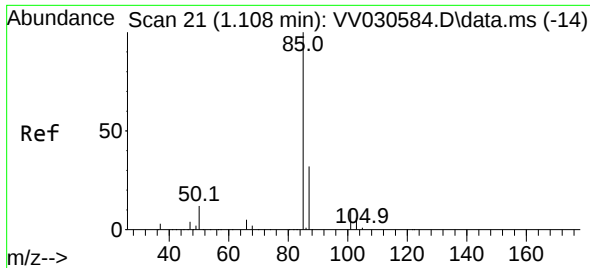
Instrument :
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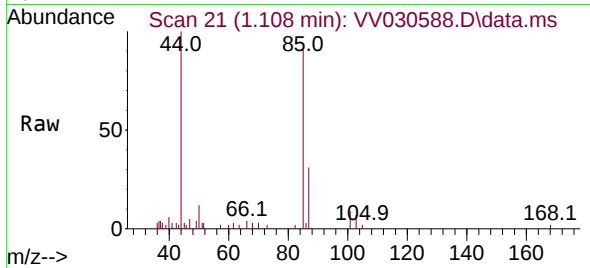
Reviewed By : John Carlone 04/18/2023
 Supervised By : Mahesh Dadoda 04/18/2023





#2
Dichlorodifluoromethane
Concen: 2.056 ug/L
RT: 1.108 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

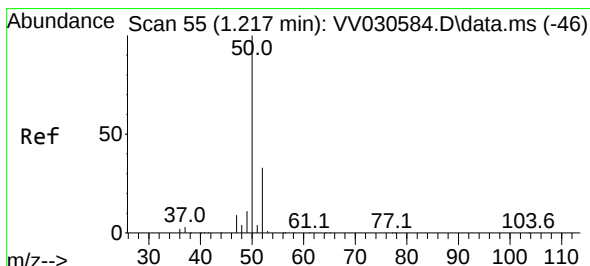
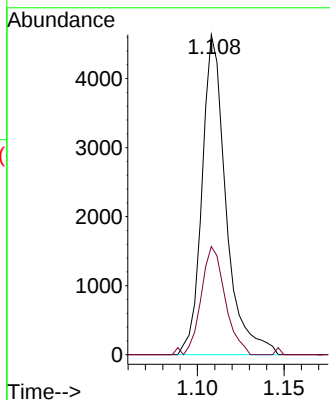
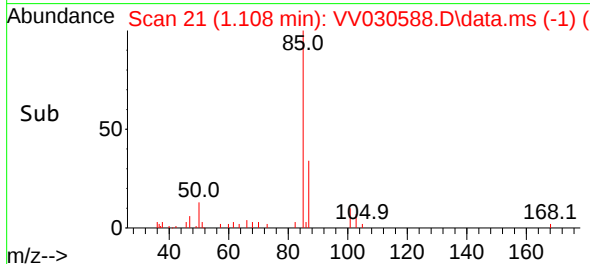
Instrument : MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 85 Resp: 446
Ion Ratio Lower Upper
85 100
87 33.5 25.6 38.4

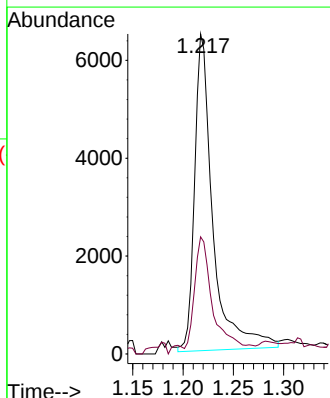
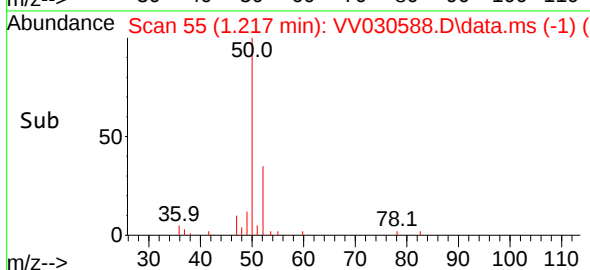
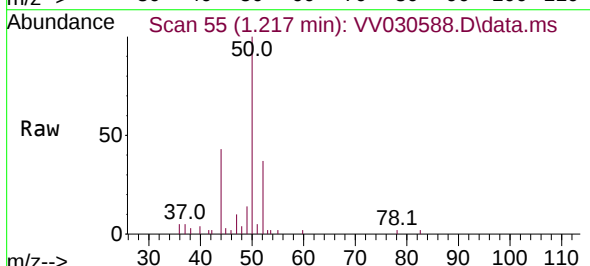
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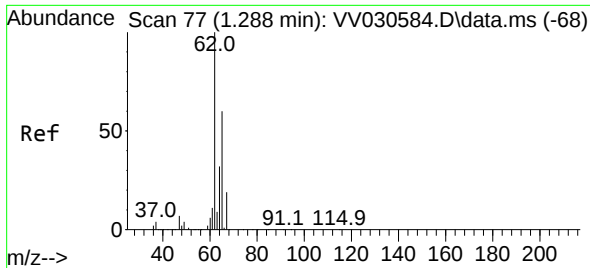
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#3
Chloromethane
Concen: 2.876 ug/L
RT: 1.217 min Scan# 55
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion: 50 Resp: 8190
Ion Ratio Lower Upper
50 100
52 36.6 22.5 41.9





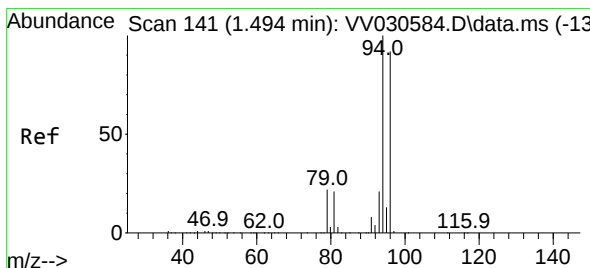
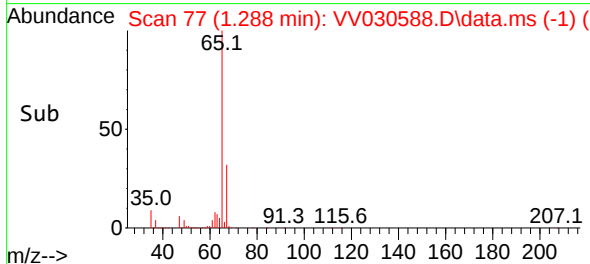
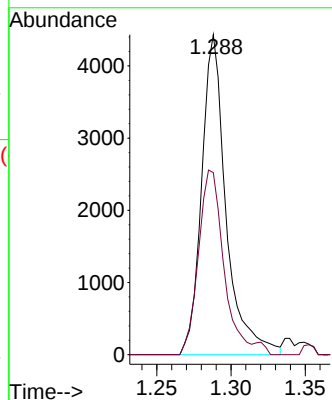
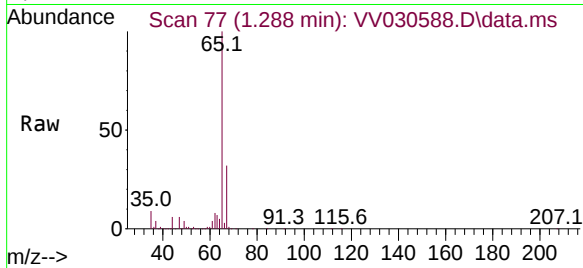
#5
 Vinyl chloride
 Concen: 2.209 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. 0.000 min
 Lab File: VV030588.D
 Acq: 17 Apr 2023 14:59

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 62 Resp: 5072
 Ion Ratio Lower Upper
 62 100
 64 56.9 23.4 43.4

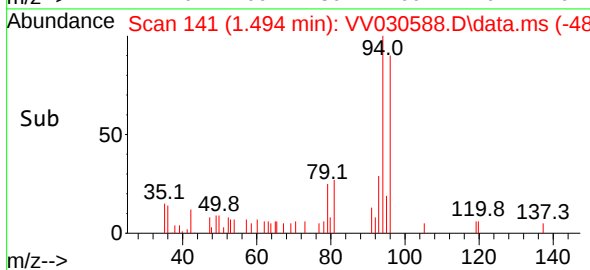
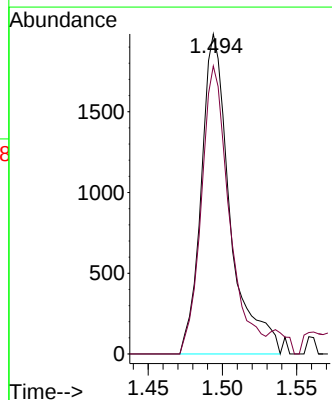
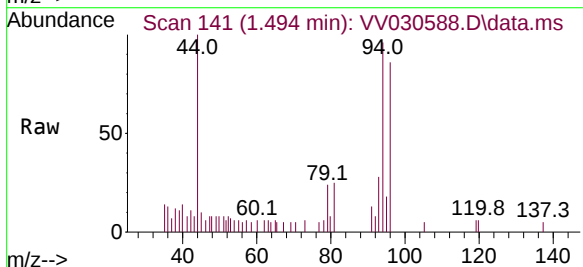
Manual Integrations
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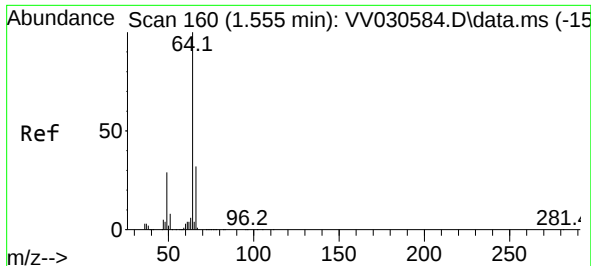
Reviewed By :John Carlone 04/18/2023
 Supervised By :Mahesh Dadoda 04/18/2023



#6
 Bromomethane
 Concen: 2.939 ug/L
 RT: 1.494 min Scan# 141
 Delta R.T. 0.000 min
 Lab File: VV030588.D
 Acq: 17 Apr 2023 14:59

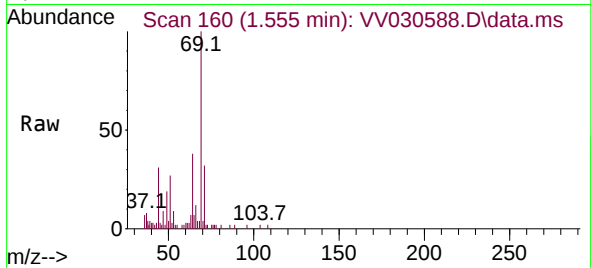
Tgt Ion: 94 Resp: 2676
 Ion Ratio Lower Upper
 94 100
 96 90.0 66.3 123.1





#8
Chloroethane
Concen: 2.138 ug/L
RT: 1.555 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

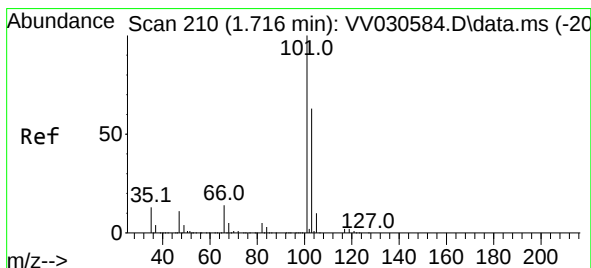
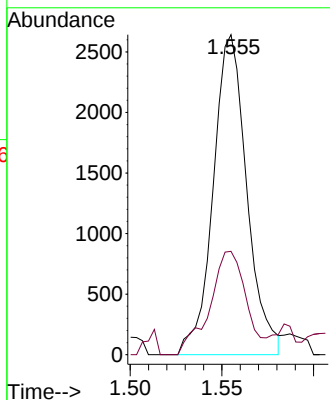
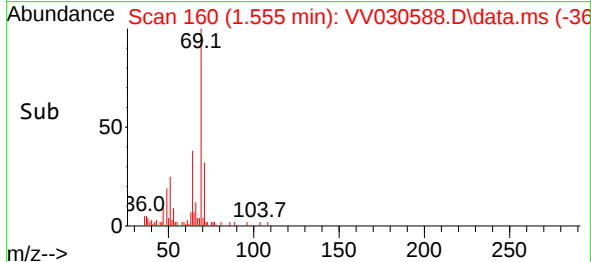
Instrument :
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ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



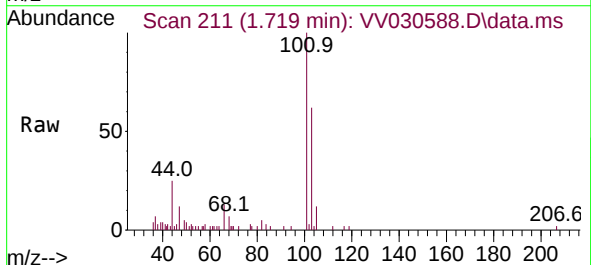
Tgt Ion: 64 Resp: 336
Ion Ratio Lower Upper
64 100
66 32.3 22.7 42.3

Manual Integrations
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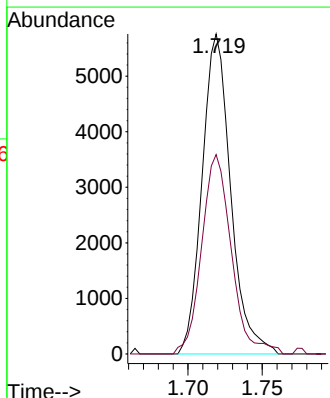
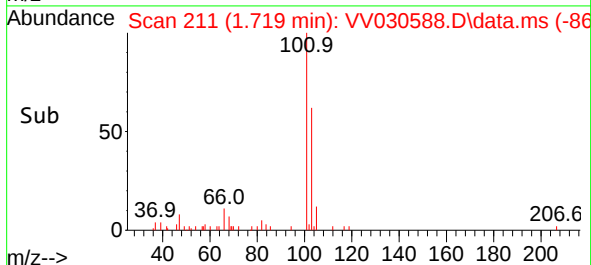
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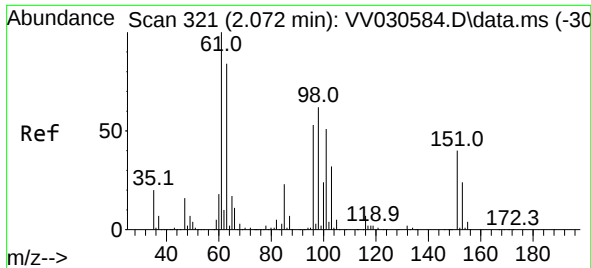


#9
Trichlorofluoromethane
Concen: 2.071 ug/L
RT: 1.719 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59



Tgt Ion:101 Resp: 7707
Ion Ratio Lower Upper
101 100
103 63.2 51.4 77.0





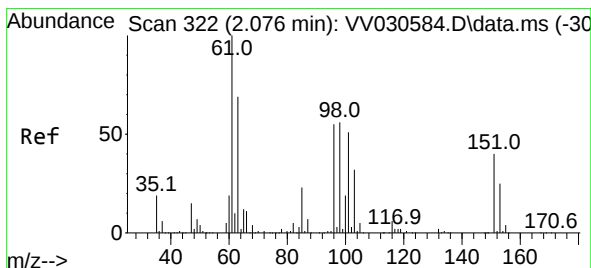
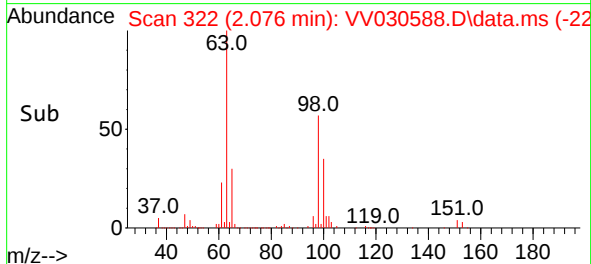
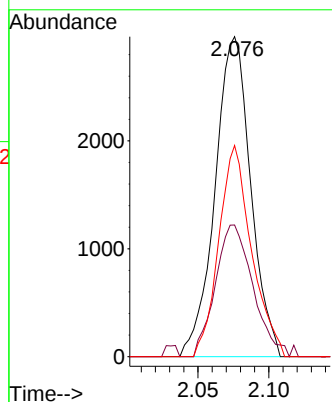
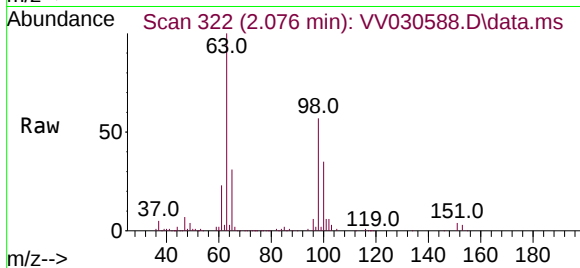
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.658 ug/L
RT: 2.076 min Scan# 311
Delta R.T. 0.003 min
Lab File: VV030588.D
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Tgt Ion:101 Resp: 5197
Ion Ratio Lower Upper
101 100
85 42.9 37.5 56.3
151 60.5 63.5 95.3

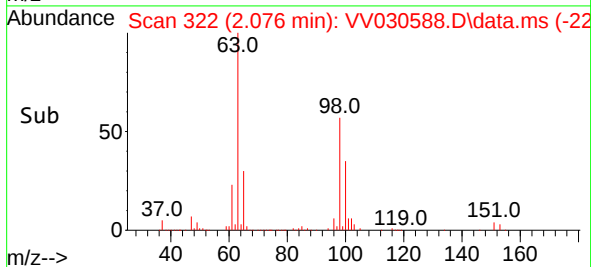
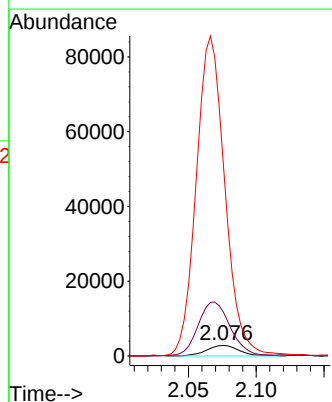
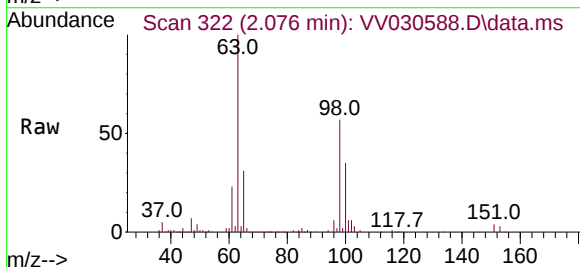
Manual Integrations
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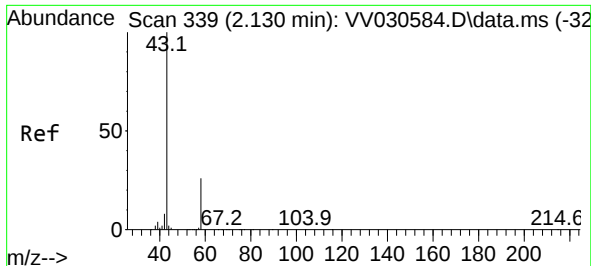
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#12
1,1-Dichloroethene
Concen: 2.669 ug/L
RT: 2.076 min Scan# 322
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

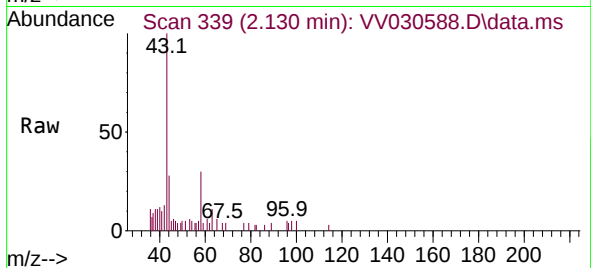
Tgt Ion: 96 Resp: 4718
Ion Ratio Lower Upper
96 100
61 410.2 131.9 245.0#
63 1784.8 99.8 185.3#





#13
Acetone
Concen: 4.520 ug/L m
RT: 2.130 min Scan# 311
Delta R.T. 0.000 min
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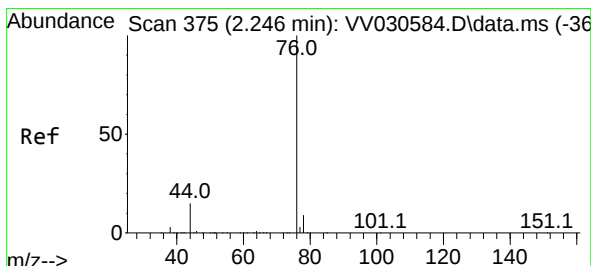
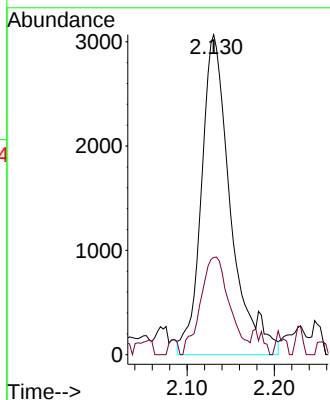
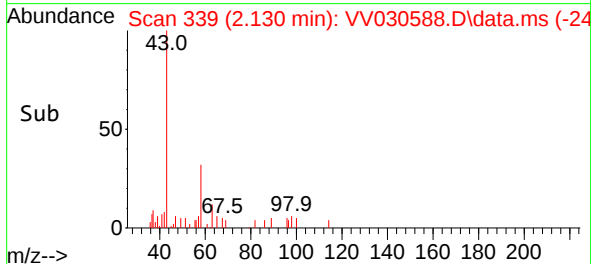
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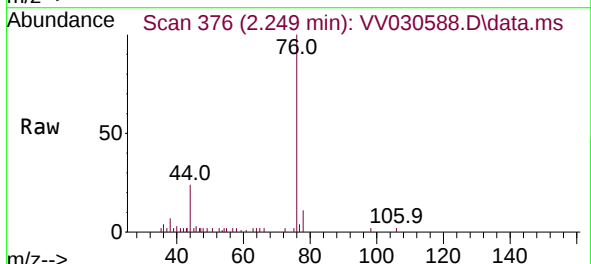
Tgt Ion: 43 Resp: 7110
Ion Ratio Lower Upper
43 100
58 30.4 0.0 52.8

Manual Integrations
APPROVED

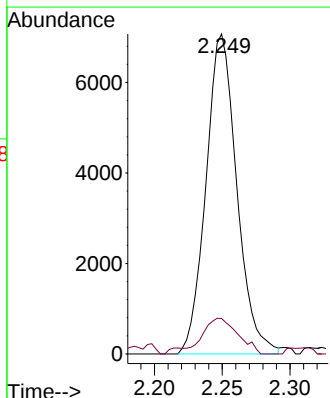
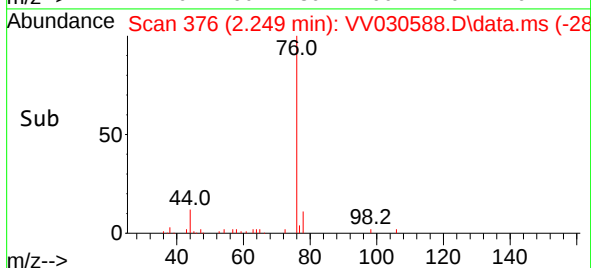
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023

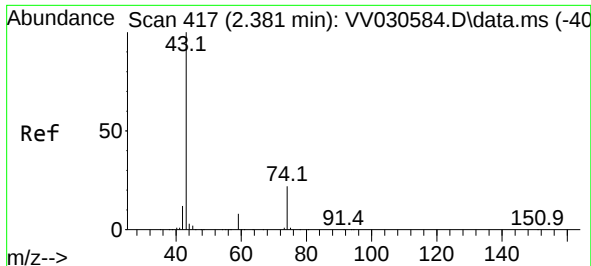


#14
Carbon disulfide
Concen: 2.245 ug/L
RT: 2.249 min Scan# 376
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59



Tgt Ion: 76 Resp: 11211
Ion Ratio Lower Upper
76 100
78 11.1 7.0 10.4#





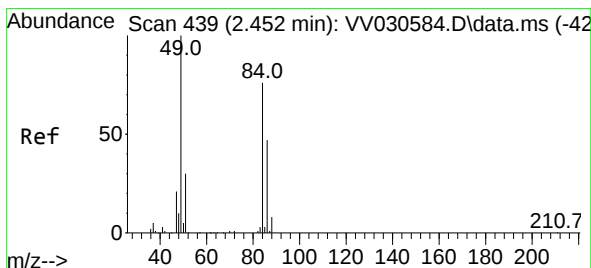
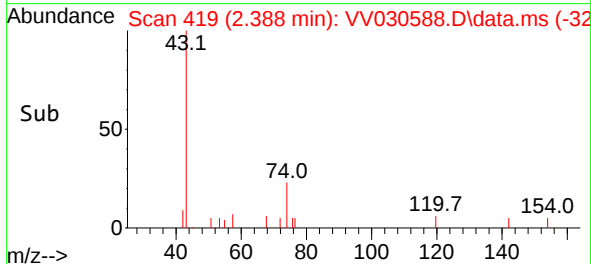
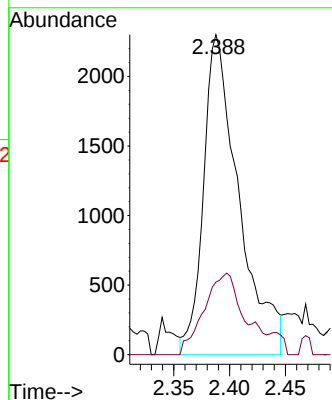
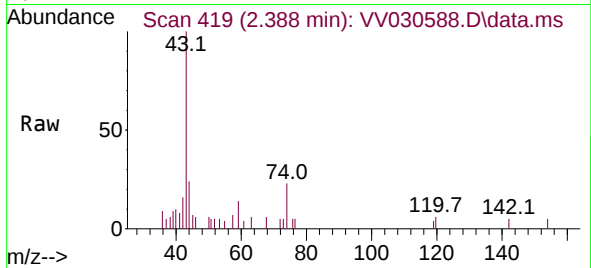
#15
Methyl Acetate
Concen: 2.409 ug/L m
RT: 2.388 min Scan# 41
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 43 Resp: 5058
Ion Ratio Lower Upper
43 100
74 25.2 17.7 26.5

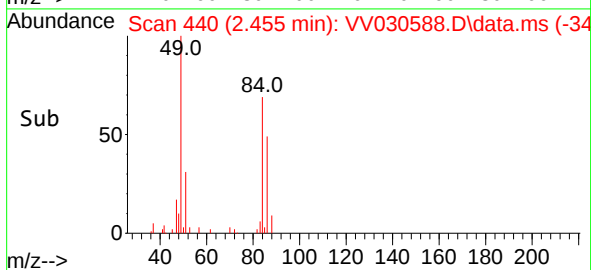
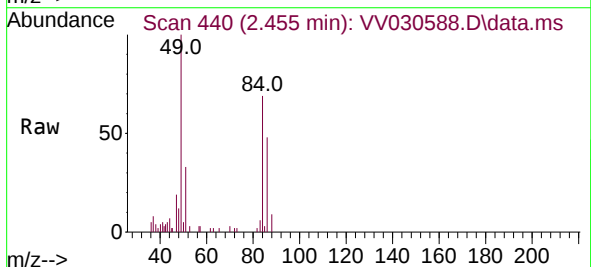
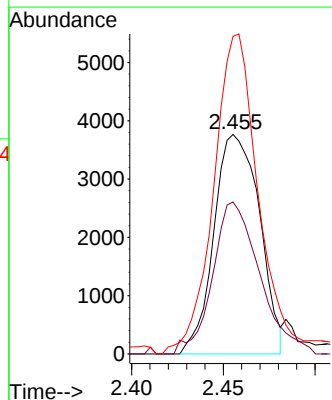
Manual Integrations
APPROVED

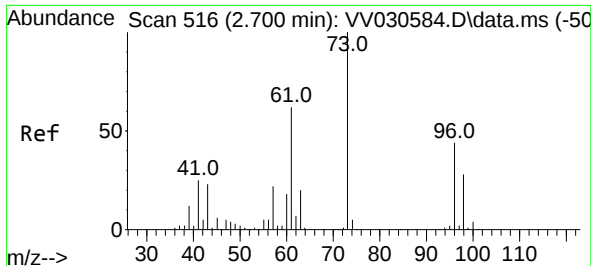
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#16
Methylene chloride
Concen: 3.217 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion: 84 Resp: 6508
Ion Ratio Lower Upper
84 100
86 69.2 45.4 84.2
49 144.7 90.4 168.0





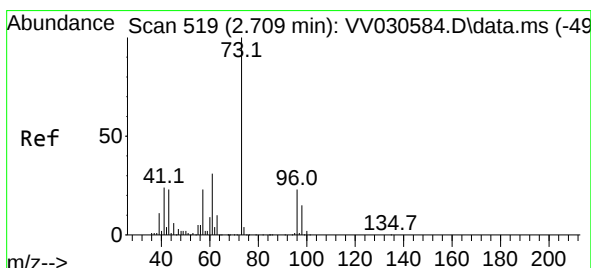
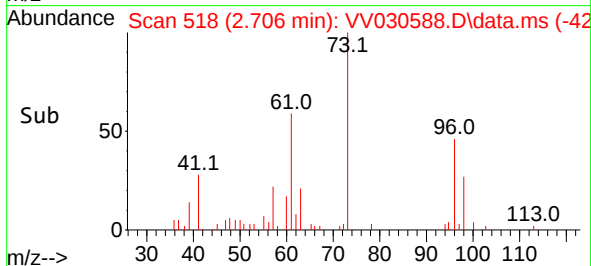
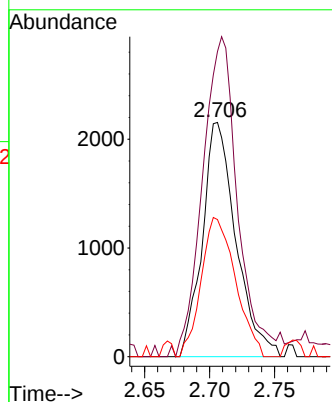
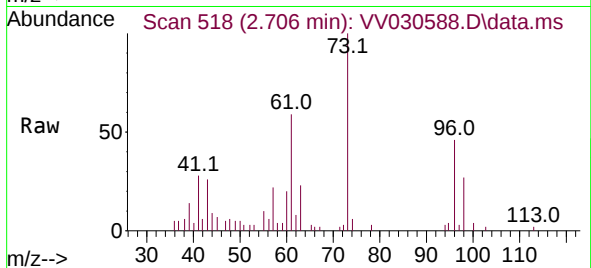
#17
trans-1,2-Dichloroethene
Concen: 2.171 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 96 Resp: 3874
Ion Ratio Lower Upper
96 100
61 130.2 101.0 187.6
98 58.6 45.4 84.2

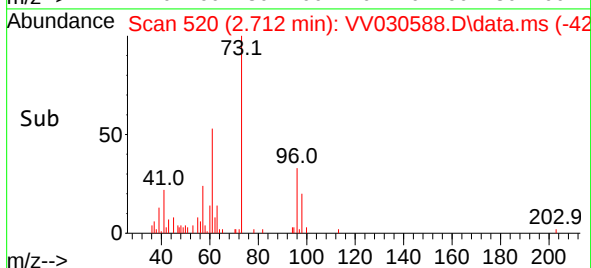
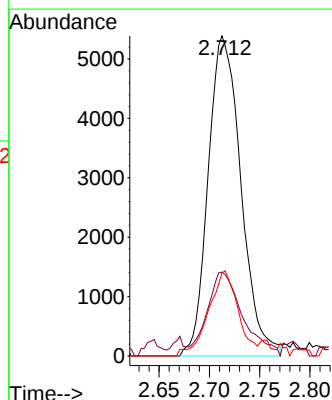
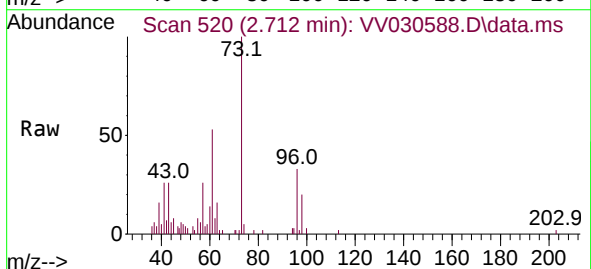
Manual Integrations
APPROVED

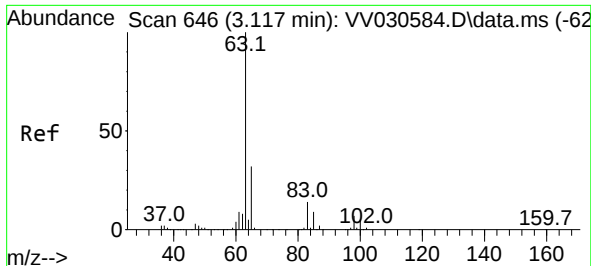
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#18
Methyl tert-butyl Ether
Concen: 2.138 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

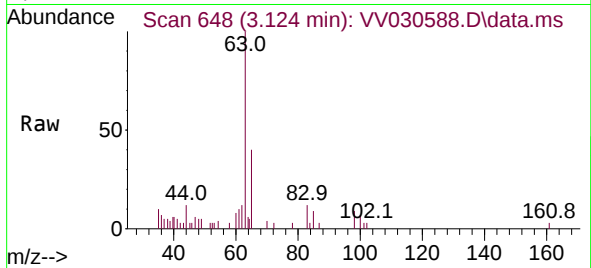
Tgt Ion: 73 Resp: 12220
Ion Ratio Lower Upper
73 100
43 28.3 17.6 26.4#
57 22.2 18.2 27.2





#19
1,1-Dichloroethane
Concen: 2.109 ug/L
RT: 3.124 min Scan# 646
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

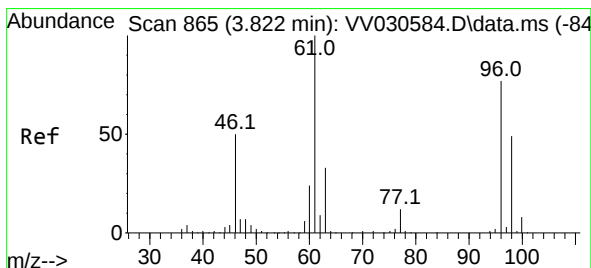
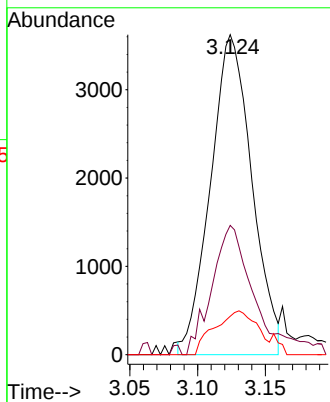
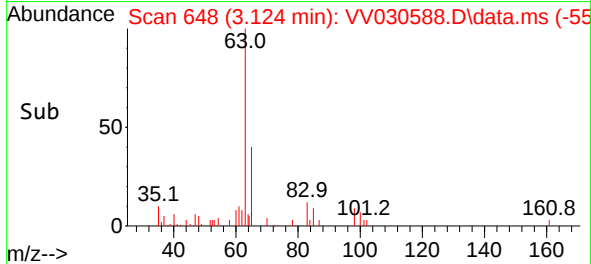
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 63 Resp: 767
Ion Ratio Lower Upper
63 100
65 40.4 21.8 40.6
83 12.0 10.2 19.0

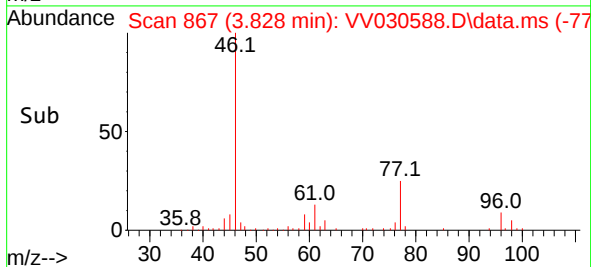
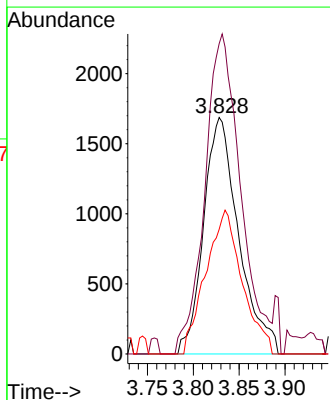
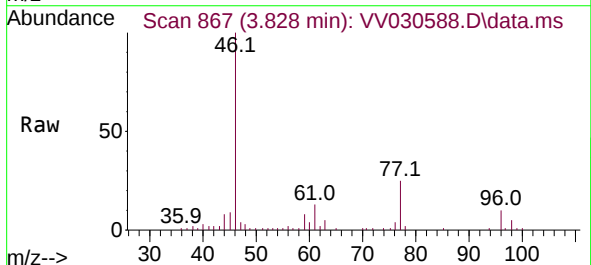
Manual Integrations
APPROVED

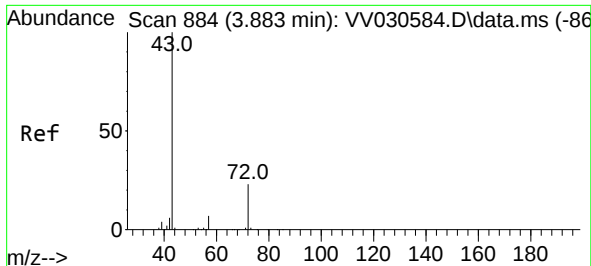
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#20
cis-1,2-Dichloroethene
Concen: 2.319 ug/L
RT: 3.828 min Scan# 867
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

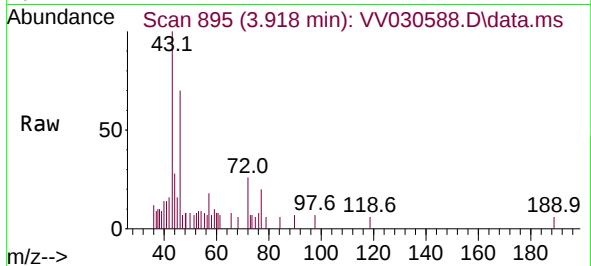
Tgt Ion: 96 Resp: 4502
Ion Ratio Lower Upper
96 100
61 131.2 92.3 171.3
98 52.7 45.9 85.3





#22
2-Butanone
Concen: 5.023 ug/L m
RT: 3.918 min Scan# 895
Delta R.T. 0.035 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

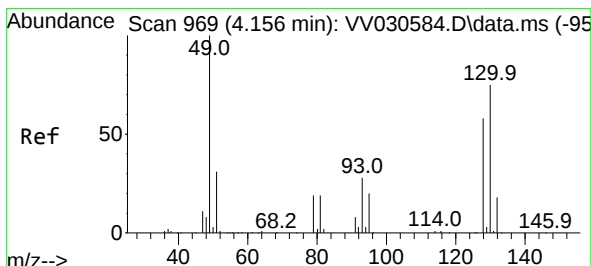
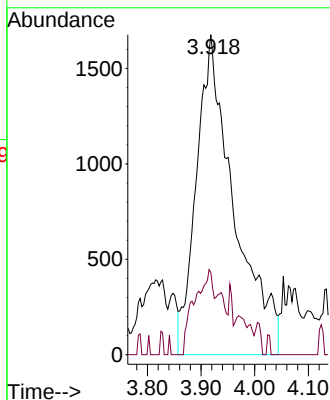
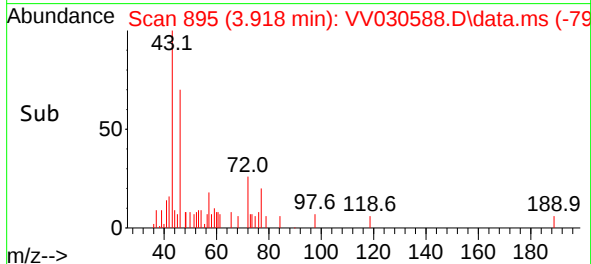
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 43 Resp: 816
Ion Ratio Lower Upper
43 100
72 0.5 11.5 34.4

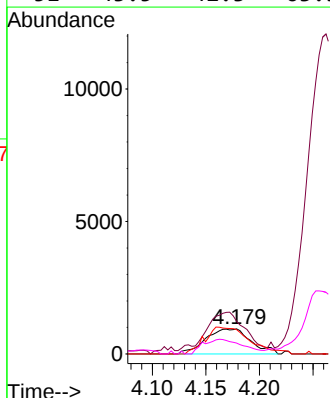
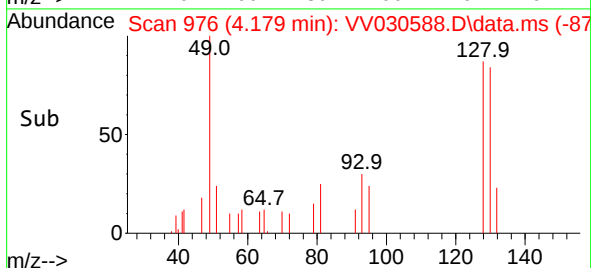
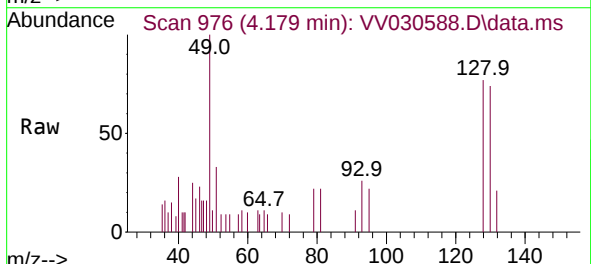
Manual Integrations
APPROVED

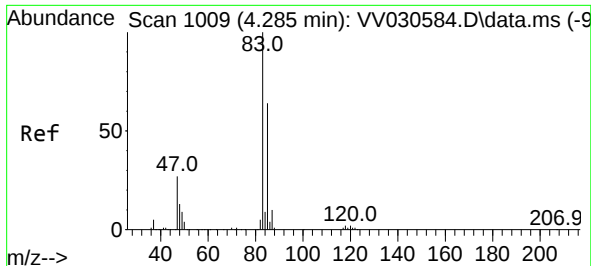
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#23
Bromochloromethane
Concen: 2.557 ug/L m
RT: 4.179 min Scan# 976
Delta R.T. 0.023 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:128 Resp: 2773
Ion Ratio Lower Upper
128 100
49 130.1 114.7 213.1
130 96.7 89.0 165.2
51 43.5 42.3 63.5





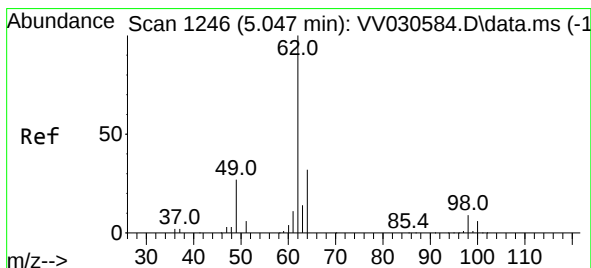
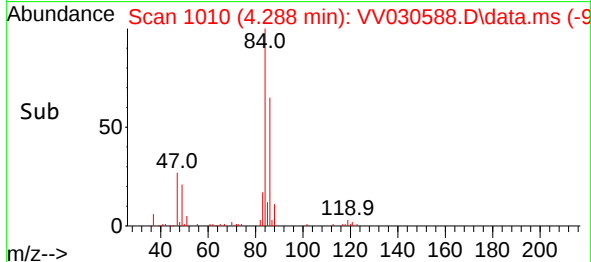
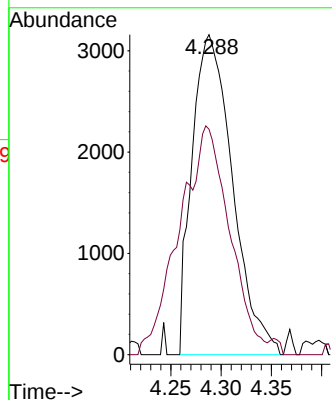
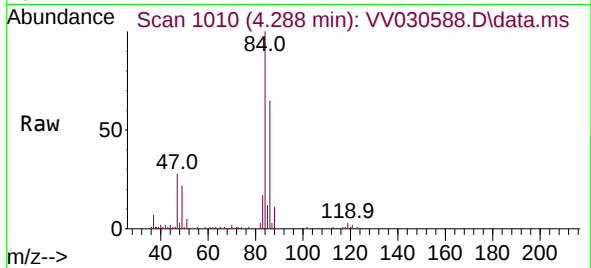
#25
Chloroform
Concen: 2.349 ug/L
RT: 4.288 min Scan# 1009
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 83 Resp: 8849
Ion Ratio Lower Upper
83 100
85 70.5 45.8 85.2

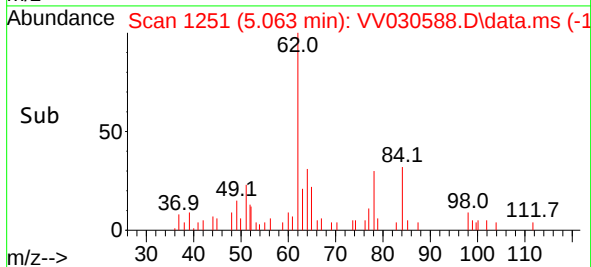
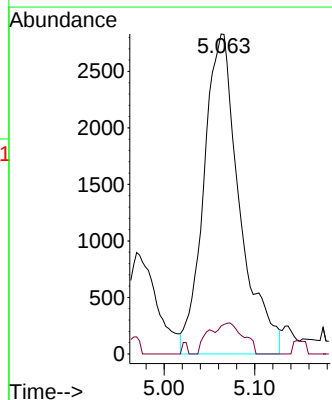
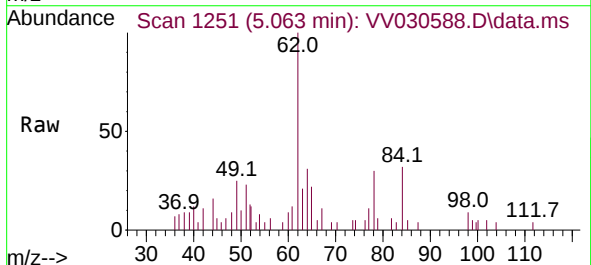
Manual Integrations
APPROVED

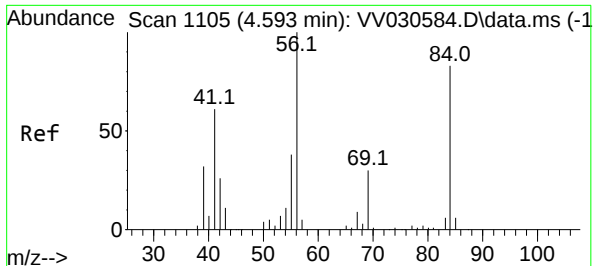
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#27
1,2-Dichloroethane
Concen: 2.430 ug/L m
RT: 5.063 min Scan# 1251
Delta R.T. 0.016 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

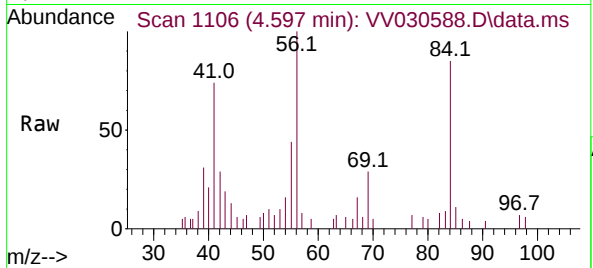
Tgt Ion: 62 Resp: 7747
Ion Ratio Lower Upper
62 100
98 8.8 6.4 9.6





#29
Cyclohexane
Concen: 1.981 ug/L
RT: 4.597 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

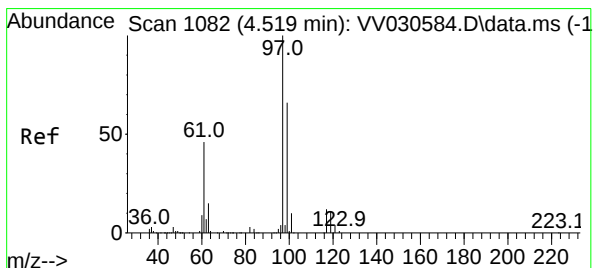
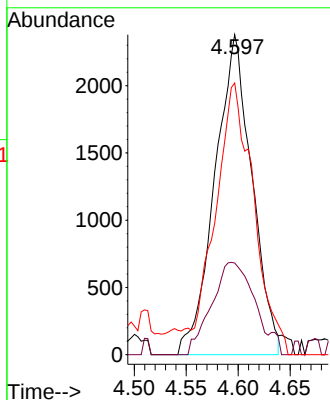
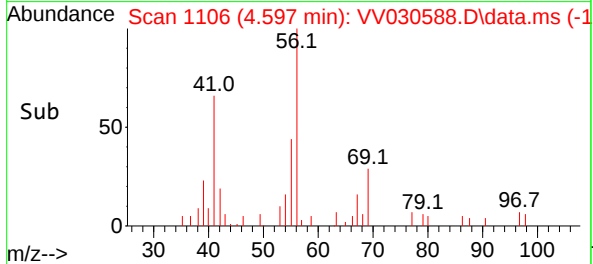
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 56 Resp: 589
Ion Ratio Lower Upper
56 100
69 32.3 24.0 36.0
84 87.7 68.2 102.2

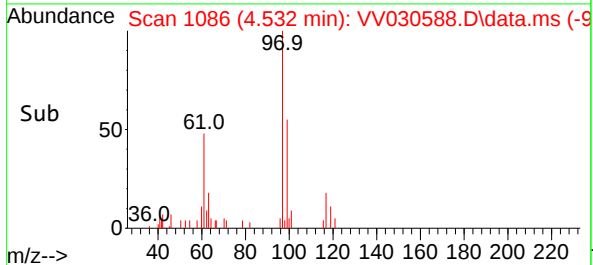
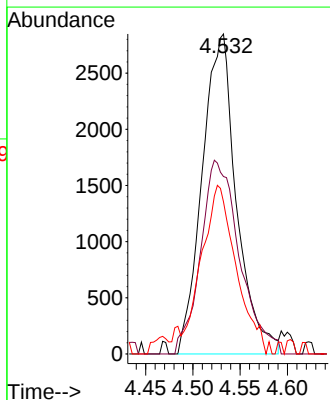
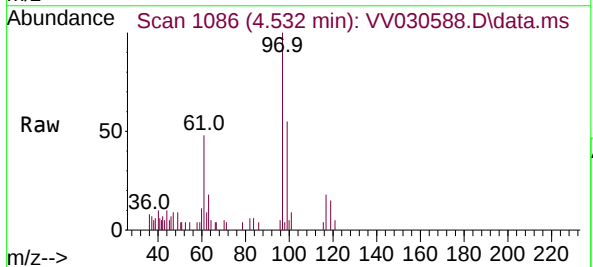
Manual Integrations
APPROVED

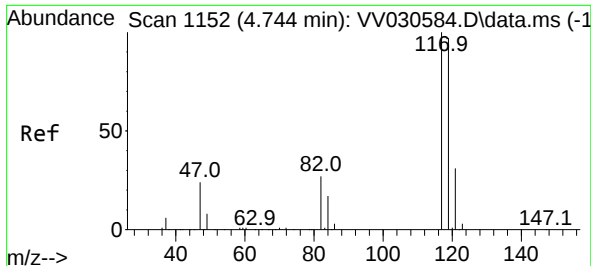
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#30
1,1,1-Trichloroethane
Concen: 2.061 ug/L
RT: 4.532 min Scan# 1086
Delta R.T. 0.013 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

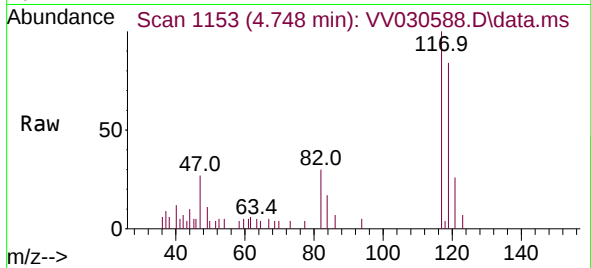
Tgt Ion: 97 Resp: 7185
Ion Ratio Lower Upper
97 100
99 68.7 51.4 77.0
61 53.3 37.0 55.6





#31
Carbon tetrachloride
Concen: 2.027 ug/L
RT: 4.748 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

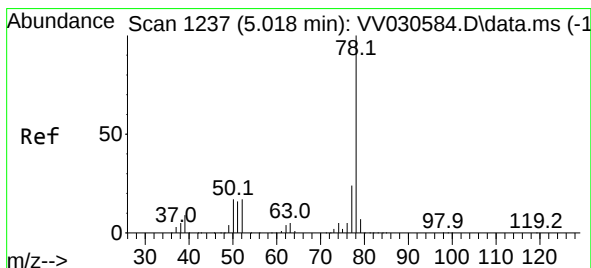
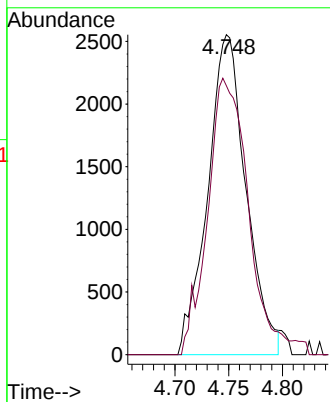
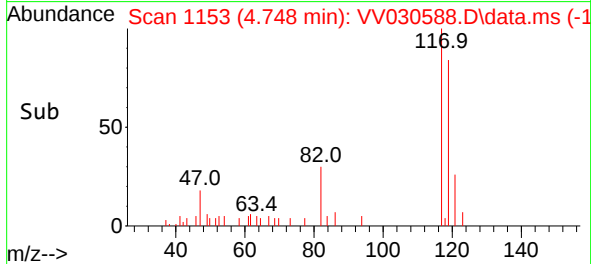
Instrument : MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 117 Resp: 631
Ion Ratio Lower Upper
117 100
119 82.0 75.9 113.9

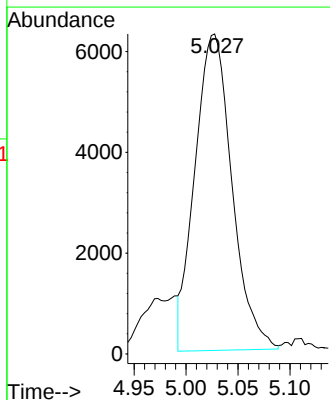
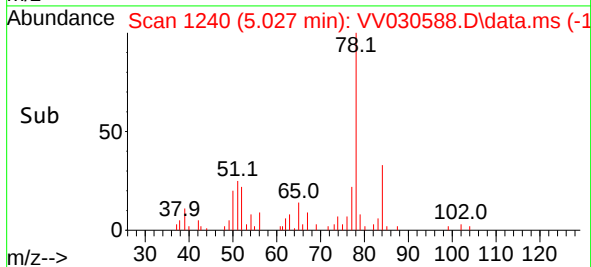
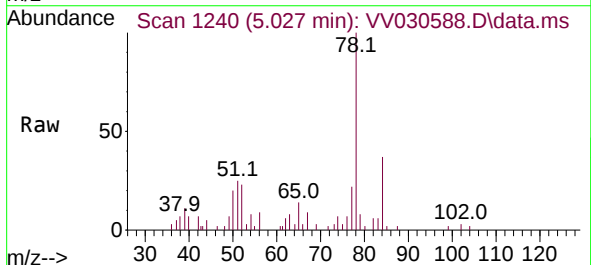
Manual Integrations
APPROVED

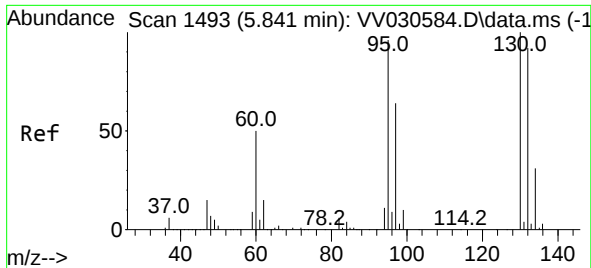
Reviewed By : John Carlone 04/18/2023
Supervised By : Mahesh Dadoda 04/18/2023



#33
Benzene
Concen: 2.065 ug/L
RT: 5.027 min Scan# 1240
Delta R.T. 0.010 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

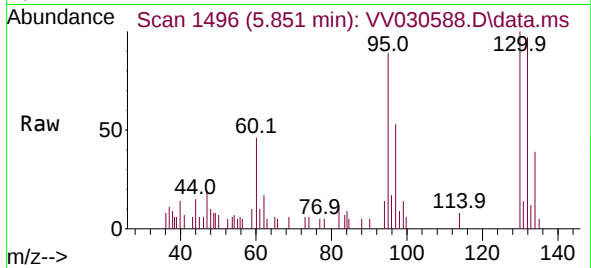
Tgt Ion: 78 Resp: 15556





#34
Trichloroethene
Concen: 2.162 ug/L m
RT: 5.851 min Scan# 1496
Delta R.T. 0.010 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

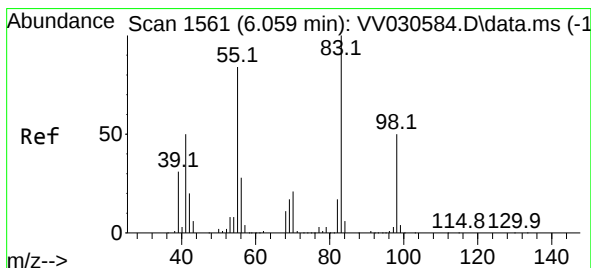
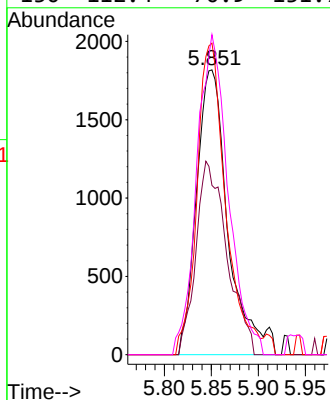
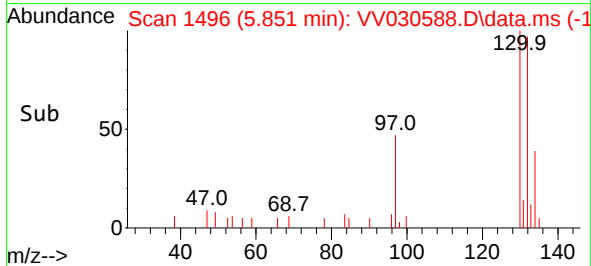
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 95 Resp: 4238
Ion Ratio Lower Upper
95 100
97 59.5 45.8 85.2
132 109.4 70.6 131.2
130 112.4 70.9 131.7

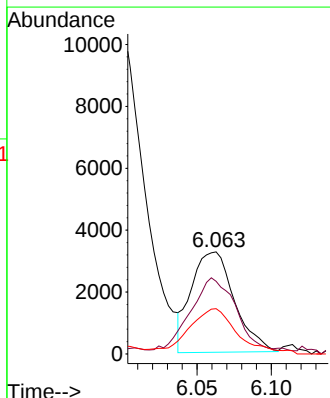
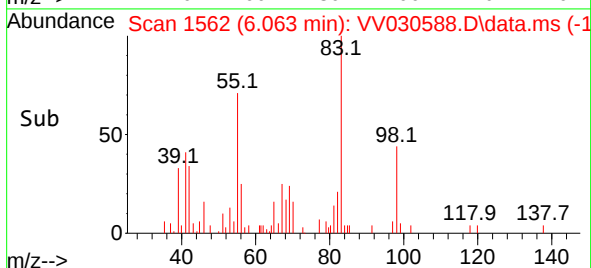
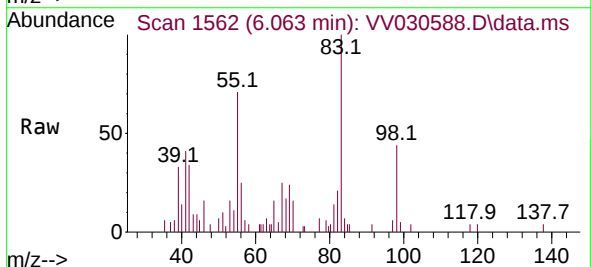
Manual Integrations
APPROVED

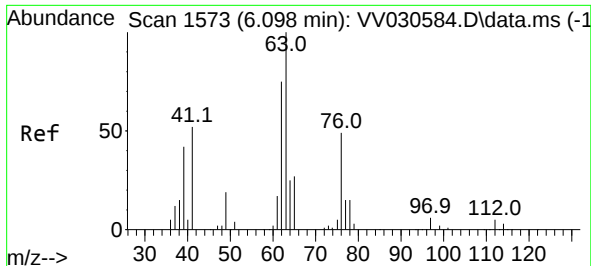
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#35
Methylcyclohexane
Concen: 2.139 ug/L
RT: 6.063 min Scan# 1562
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion: 83 Resp: 6568
Ion Ratio Lower Upper
83 100
55 75.9 65.5 98.3
98 43.3 38.7 58.1





#37

1,2-Dichloropropane

Concen: 2.474 ug/L m

RT: 6.108 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03

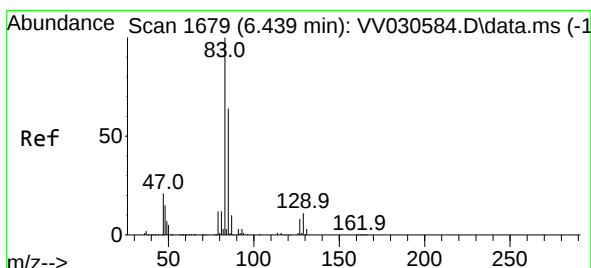
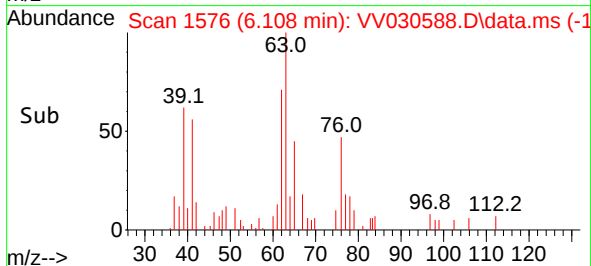
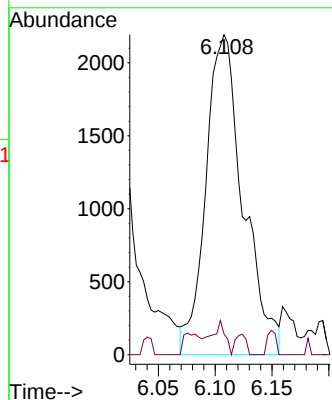
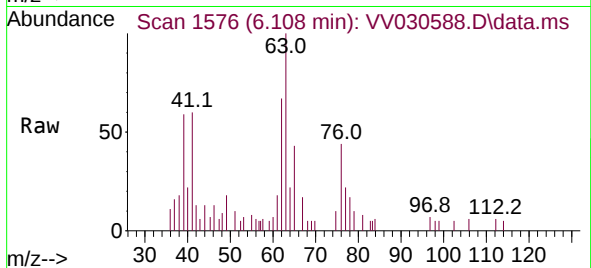
Tgt Ion: 63 Resp: 501
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.8 5.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#38

Bromodichloromethane

Concen: 2.138 ug/L

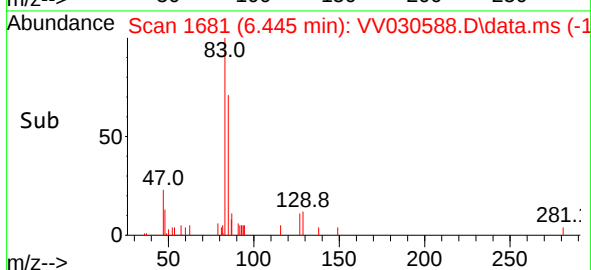
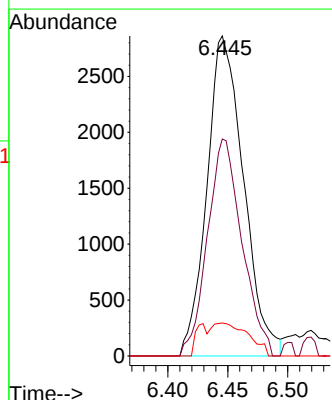
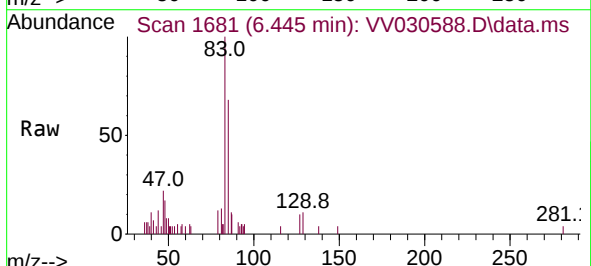
RT: 6.445 min Scan# 1681

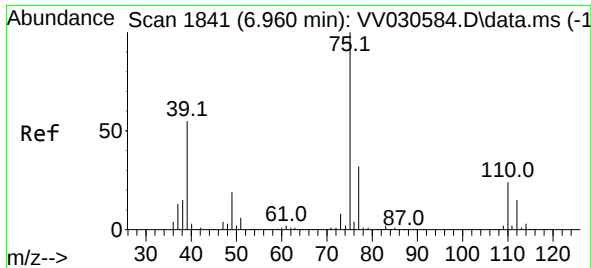
Delta R.T. 0.007 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

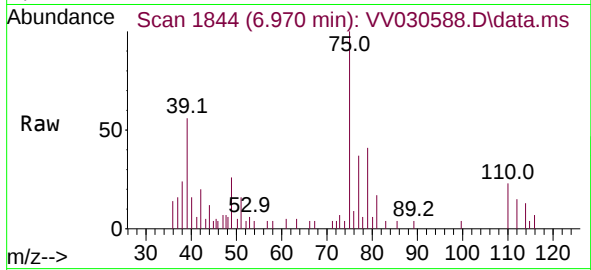
Tgt Ion: 83 Resp: 6089
 Ion Ratio Lower Upper
 83 100
 85 67.8 45.4 84.4
 127 10.3 7.0 10.4





#39
 cis-1,3-Dichloropropene
 Concen: 2.227 ug/L m
 RT: 6.970 min Scan# 1841
 Delta R.T. 0.010 min
 Lab File: VV030588.D
 Acq: 17 Apr 2023 14:59

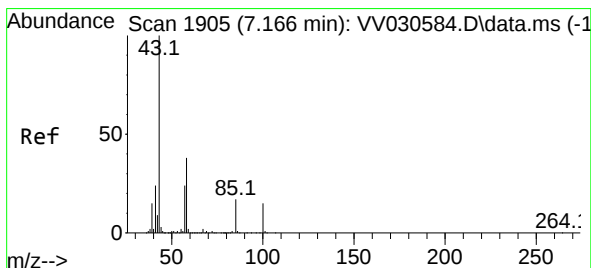
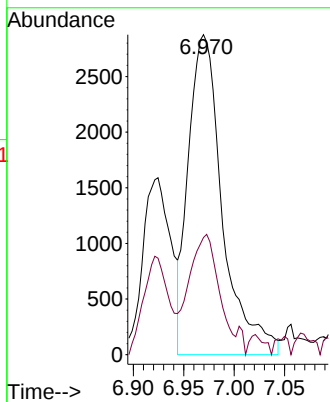
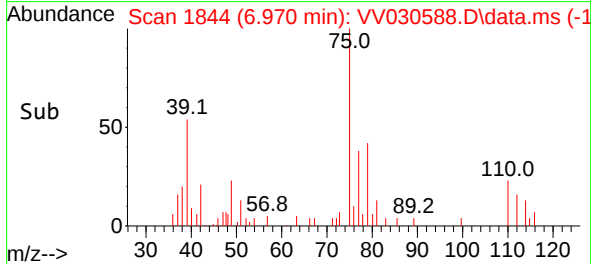
Instrument : MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT2-2023-03



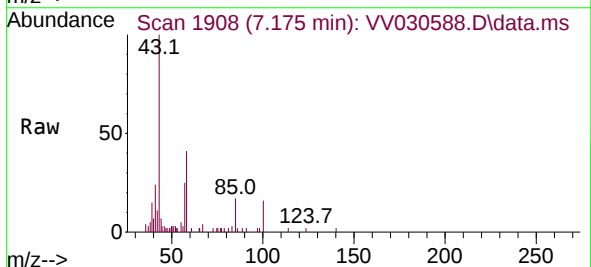
Tgt Ion: 75 Resp: 6770
 Ion Ratio Lower Upper
 75 100
 77 36.6 22.0 40.8

Manual Integrations
 APPROVED

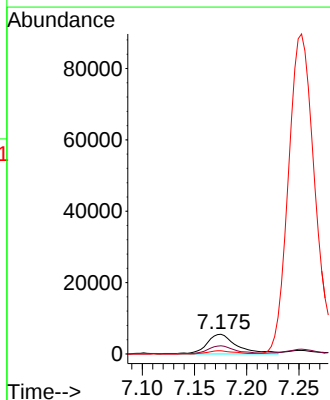
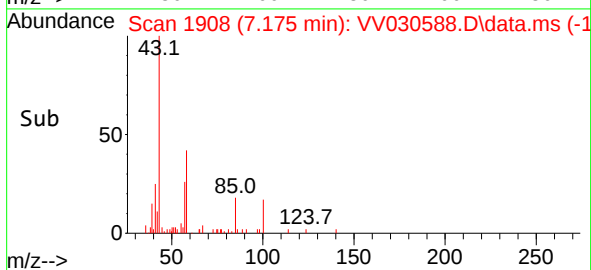
Reviewed By :John Carlone 04/18/2023
 Supervised By :Mahesh Dadoda 04/18/2023

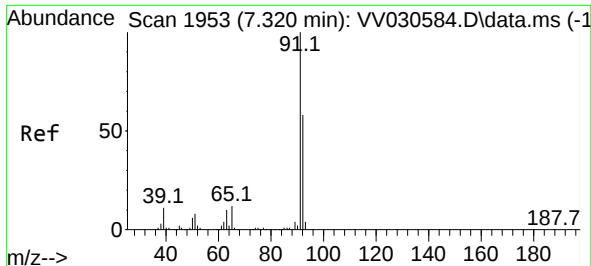


#40
 4-Methyl-2-pentanone
 Concen: 3.940 ug/L m
 RT: 7.175 min Scan# 1908
 Delta R.T. 0.010 min
 Lab File: VV030588.D
 Acq: 17 Apr 2023 14:59



Tgt Ion: 43 Resp: 11157
 Ion Ratio Lower Upper
 43 100
 58 35.2 29.2 43.8
 100 14.0 11.3 16.9





#42

Toluene

Concen: 1.931 ug/L

RT: 7.330 min Scan# 1953

Delta R.T. 0.010 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03

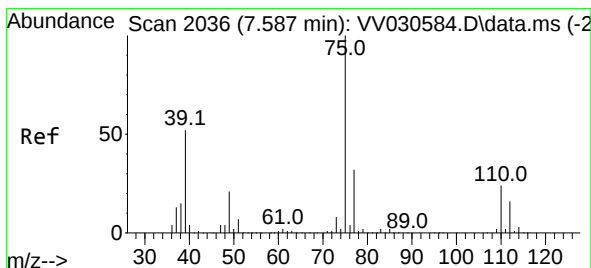
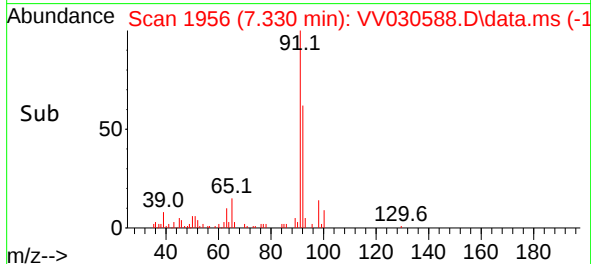
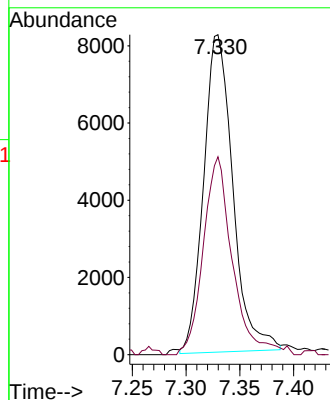
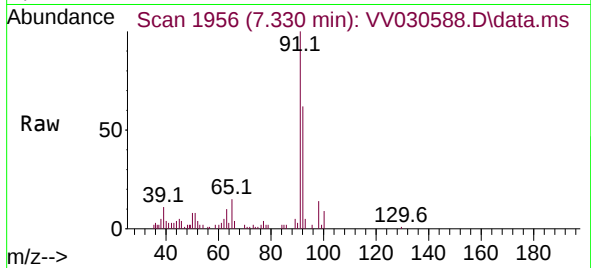
Tgt Ion: 91 Resp: 1558
 Ion Ratio Lower Upper
 91 100
 92 61.9 39.8 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#44

trans-1,3-Dichloropropene

Concen: 2.336 ug/L m

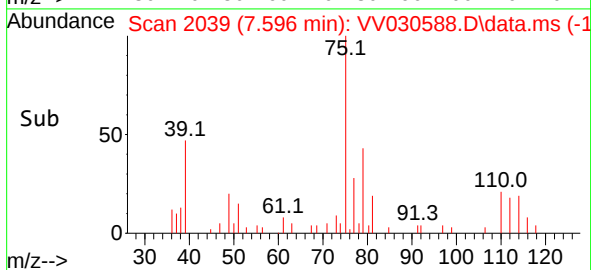
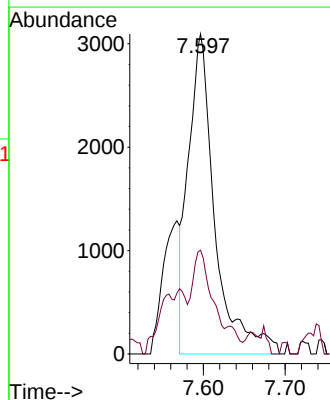
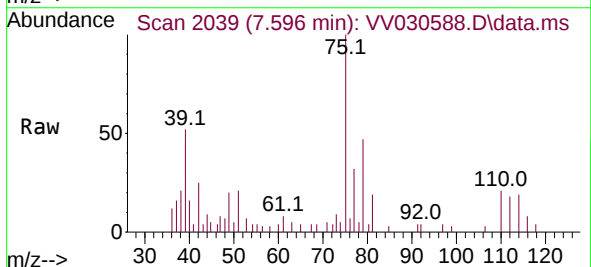
RT: 7.596 min Scan# 2039

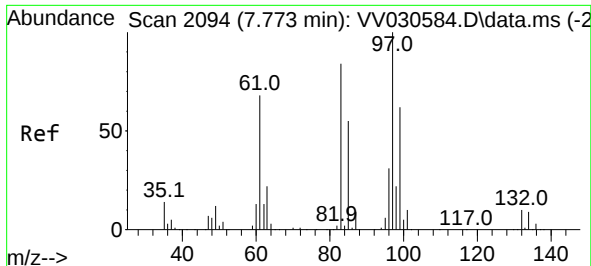
Delta R.T. 0.010 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

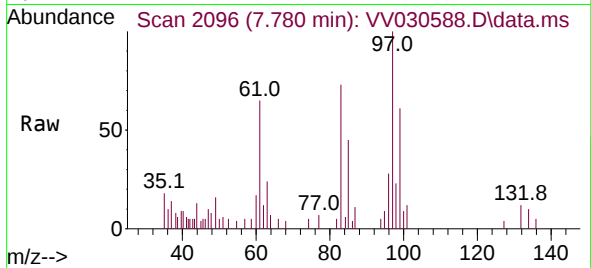
Tgt Ion: 75 Resp: 6983
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.1 41.1





#45
1,1,2-Trichloroethane
Concen: 2.228 ug/L
RT: 7.780 min Scan# 2094
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

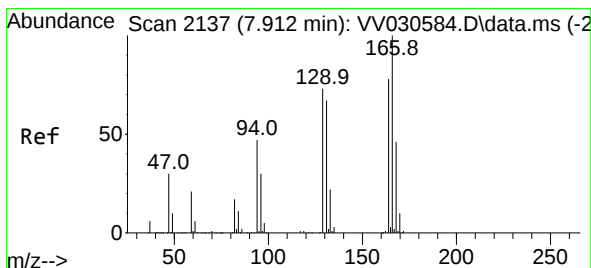
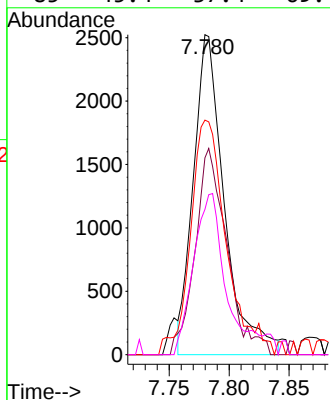
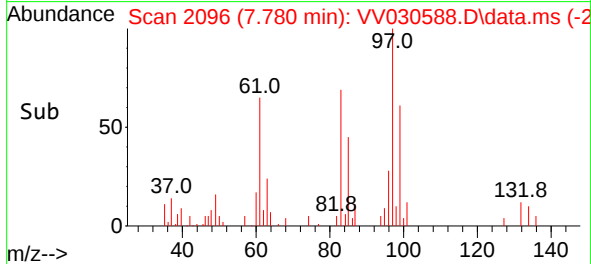
Instrument : MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03



Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.5	43.8	81.4
83	73.3	59.6	110.6
85	45.4	37.4	69.4

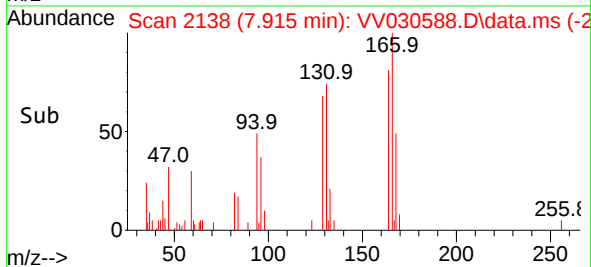
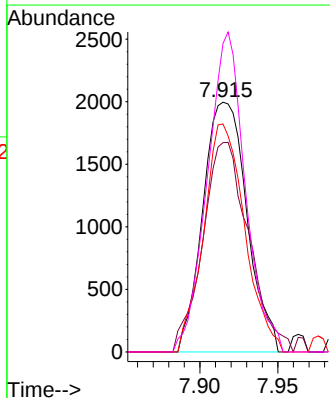
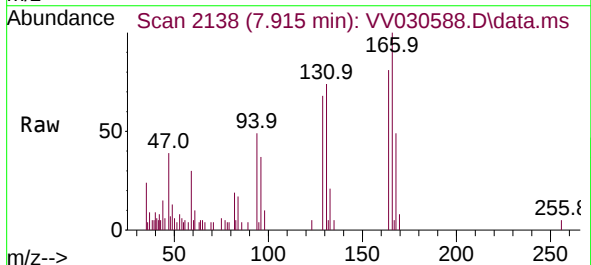
Manual Integrations
APPROVED

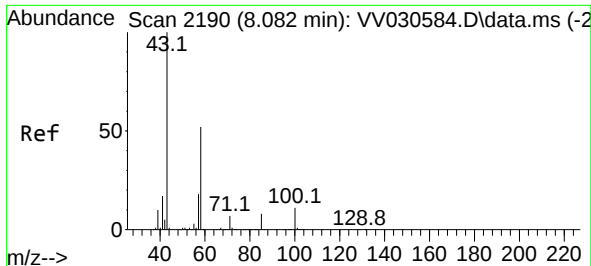
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#46
Tetrachloroethene
Concen: 2.286 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

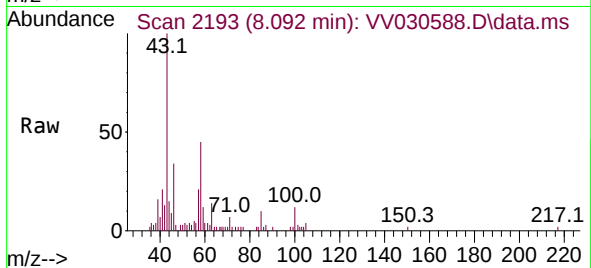
Tgt Ion	Ratio	Lower	Upper
164	100		
129	83.8	63.8	118.6
131	91.2	60.3	111.9
166	123.5	89.5	166.1





#48
2-Hexanone
Concen: 6.221 ug/L m
RT: 8.092 min Scan# 2190
Delta R.T. 0.010 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

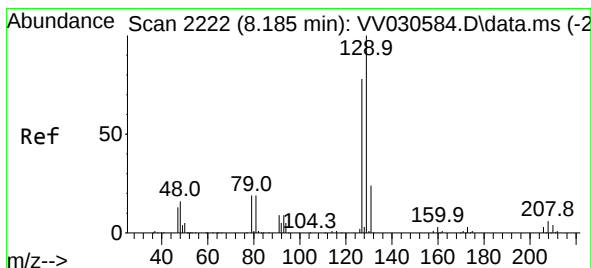
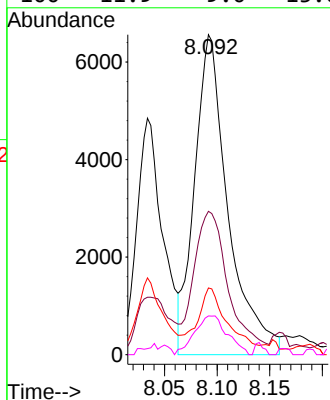
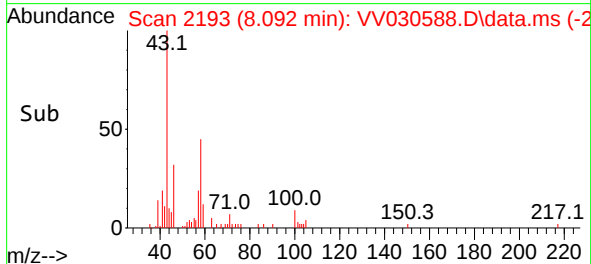
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT2-2023-03



Tgt Ion: 43 Resp: 14538
Ion Ratio Lower Upper
43 100
58 46.3 41.4 62.0
57 19.2 14.9 22.3
100 11.9 9.0 13.6

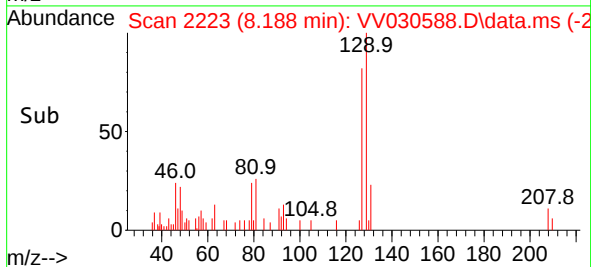
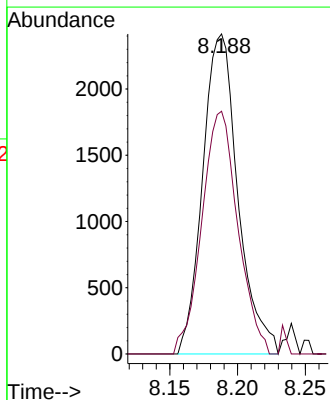
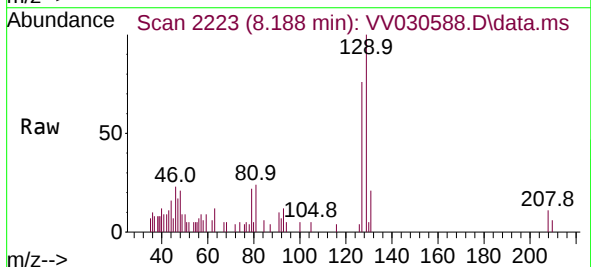
Manual Integrations
APPROVED

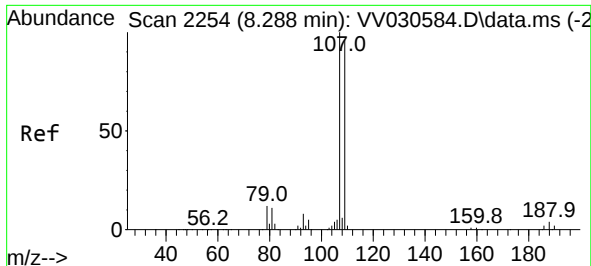
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#49
Dibromochloromethane
Concen: 1.952 ug/L
RT: 8.188 min Scan# 2223
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:129 Resp: 4377
Ion Ratio Lower Upper
129 100
127 75.9 52.8 98.2





#50

1,2-Dibromoethane

Concen: 2.099 ug/L

RT: 8.294 min Scan# 2256

Delta R.T. 0.007 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03

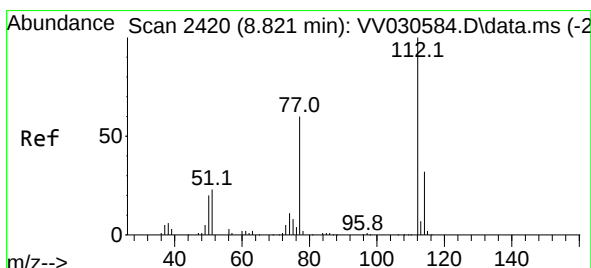
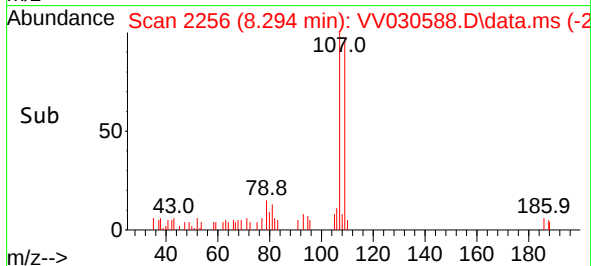
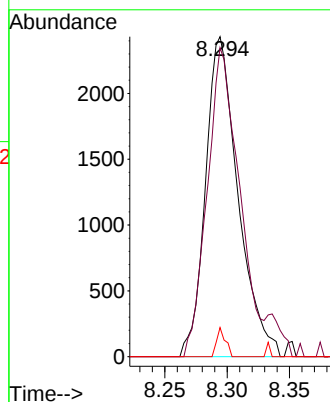
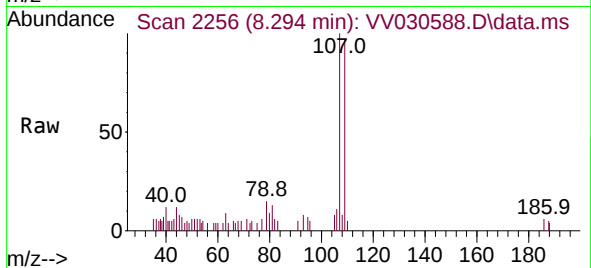
Tgt Ion:	107	Resp:	442
Ion Ratio	Lower	Upper	
107	100		
109	96.5	65.7	121.9
188	9.1	3.2	4.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#51

Chlorobenzene

Concen: 2.107 ug/L

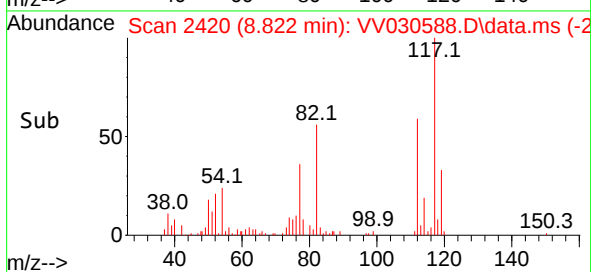
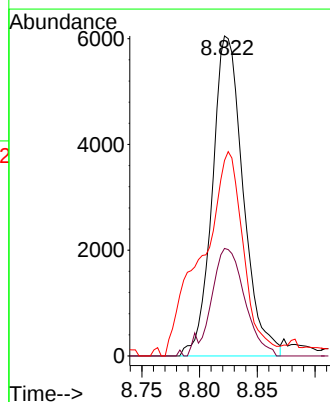
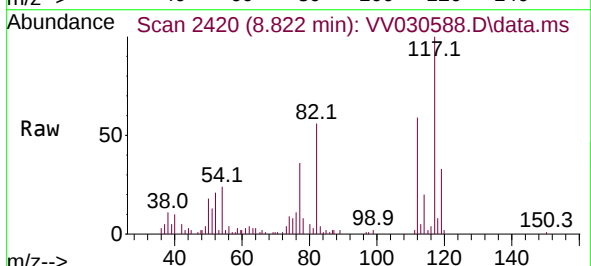
RT: 8.822 min Scan# 2420

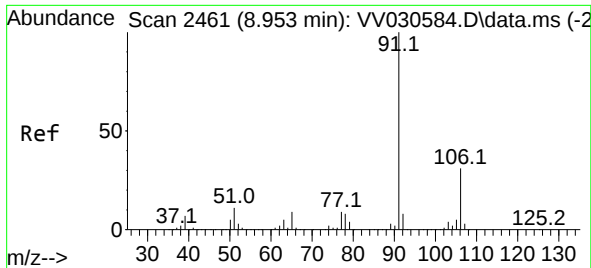
Delta R.T. 0.000 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Tgt Ion:	112	Resp:	11259
Ion Ratio	Lower	Upper	
112	100		
114	33.6	22.4	41.6
77	61.1	47.4	71.0





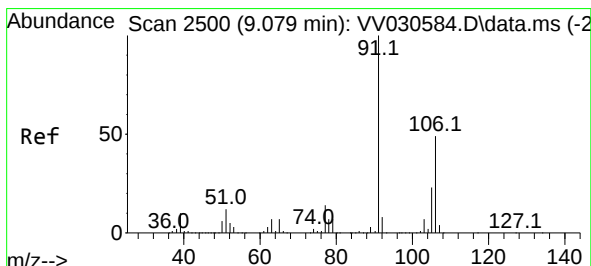
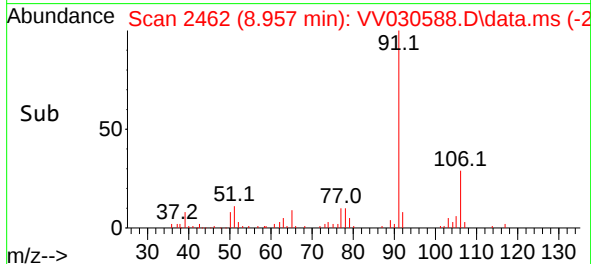
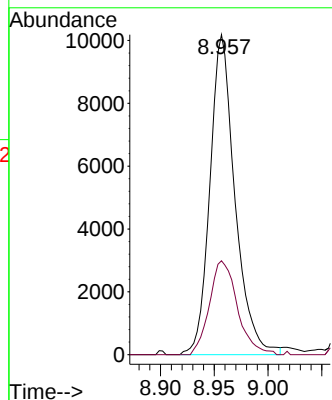
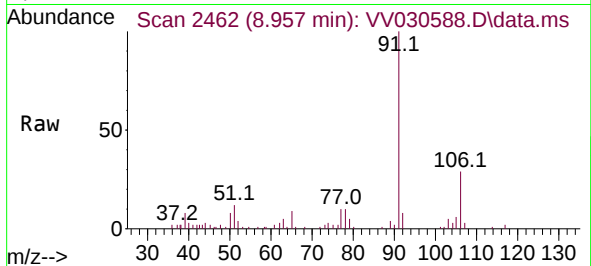
#52
Ethylbenzene
Concen: 1.850 ug/L
RT: 8.957 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument : MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 91 Resp: 16524
Ion Ratio Lower Upper
91 100
106 29.4 21.8 40.4

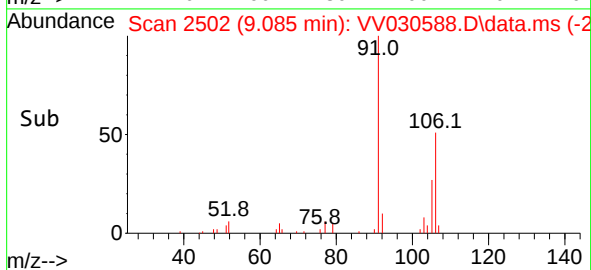
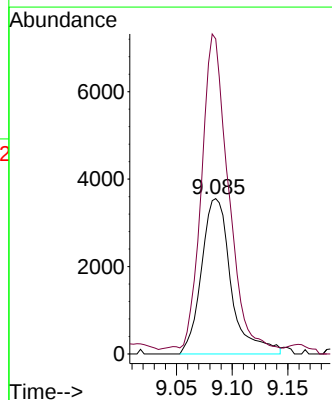
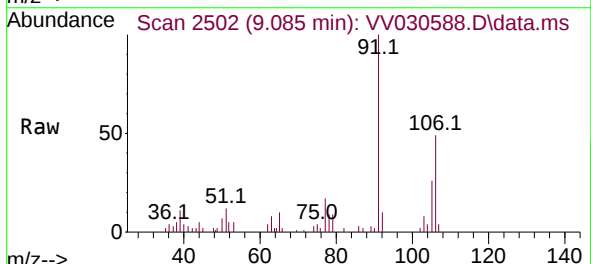
Manual Integrations
APPROVED

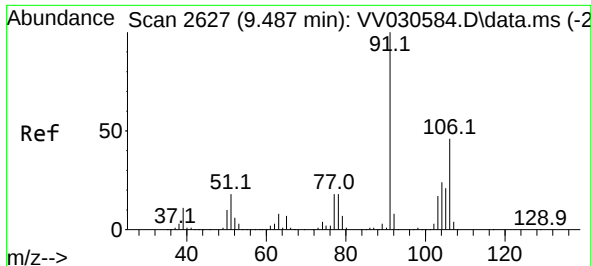
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#53
m,p-Xylene
Concen: 1.955 ug/L
RT: 9.085 min Scan# 2502
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:106 Resp: 6595
Ion Ratio Lower Upper
106 100
91 202.8 144.7 268.7





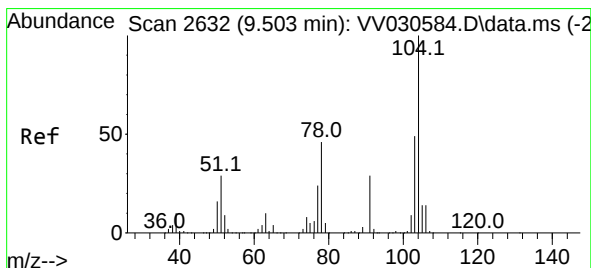
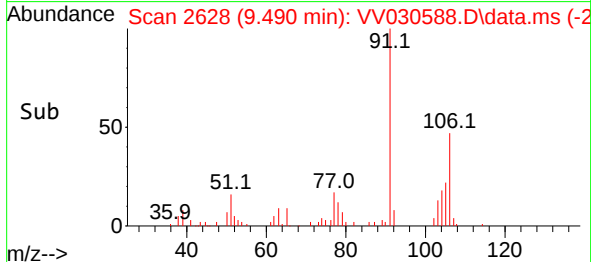
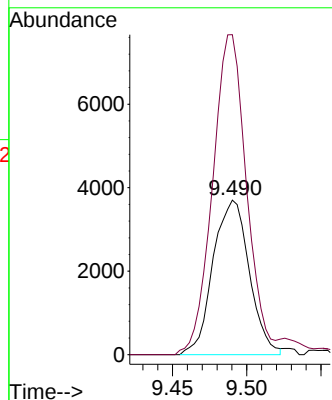
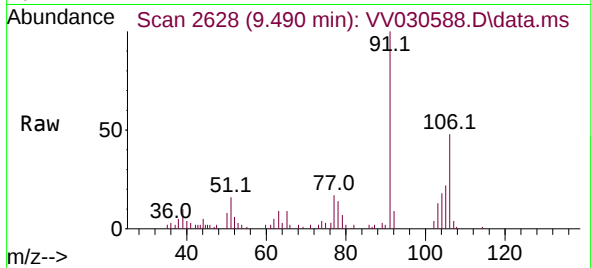
#54
o-Xylene
Concen: 1.906 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion:106 Resp: 6292
Ion Ratio Lower Upper
106 100
91 207.0 152.6 283.4

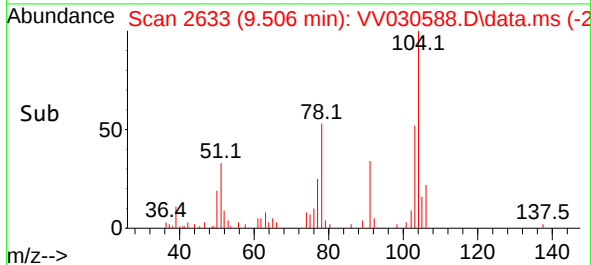
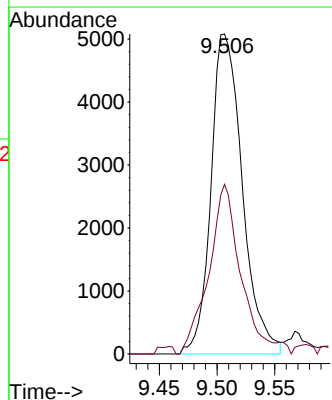
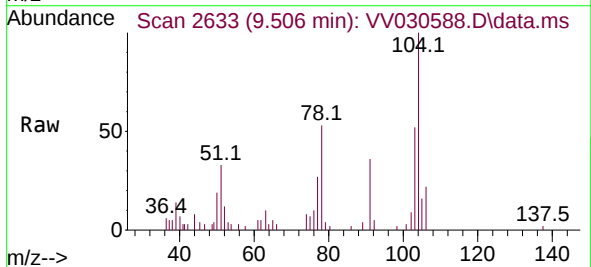
Manual Integrations
APPROVED

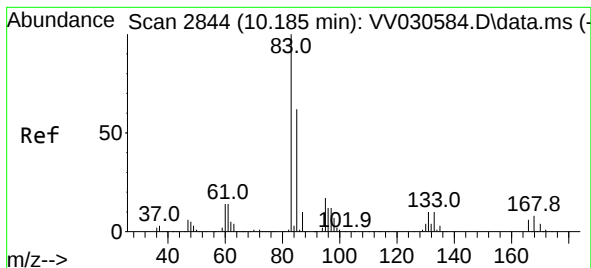
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#55
Styrene
Concen: 1.657 ug/L
RT: 9.506 min Scan# 2633
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:104 Resp: 9606
Ion Ratio Lower Upper
104 100
78 53.0 32.3 59.9





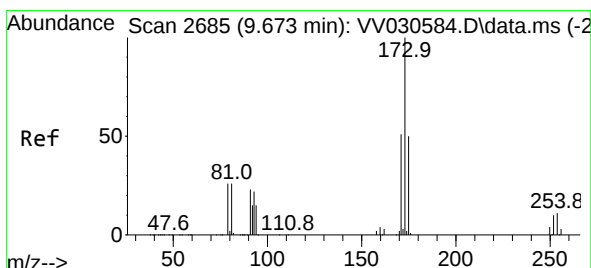
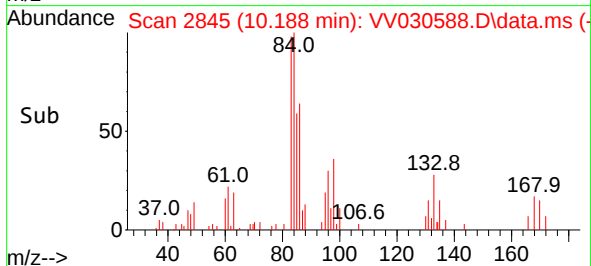
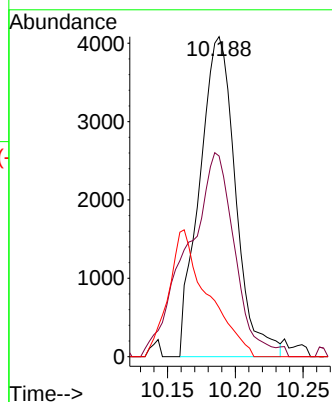
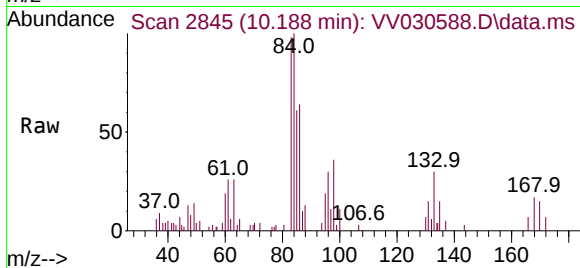
#57
1,1,2,2-Tetrachloroethane
Concen: 2.264 ug/L
RT: 10.188 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT2-2023-03

Tgt Ion: 83 Resp: 755
Ion Ratio Lower Upper
83 100
85 62.7 45.1 83.7
131 15.3 8.0 12.0

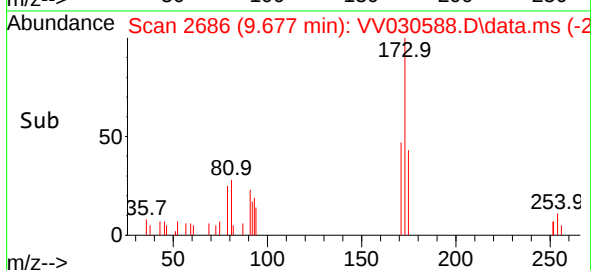
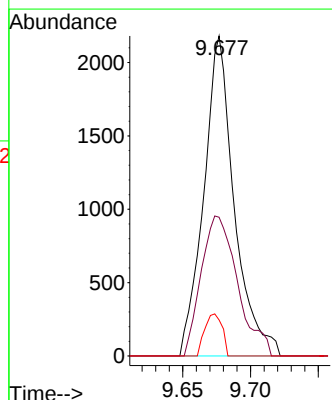
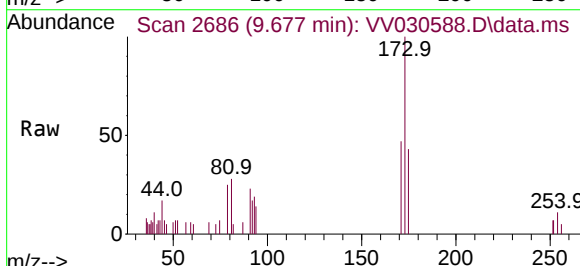
Manual Integrations
APPROVED

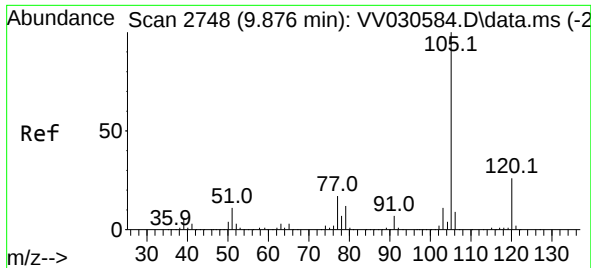
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#59
Bromoform
Concen: 2.216 ug/L
RT: 9.677 min Scan# 2686
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:173 Resp: 3408
Ion Ratio Lower Upper
173 100
175 52.3 38.8 58.2
254 7.5 8.2 12.4





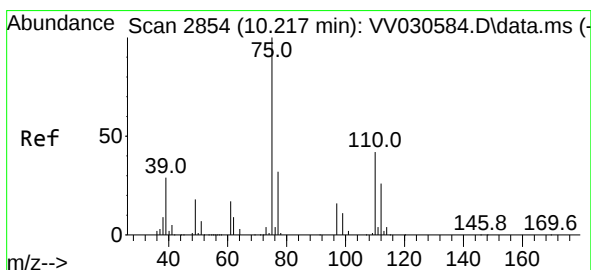
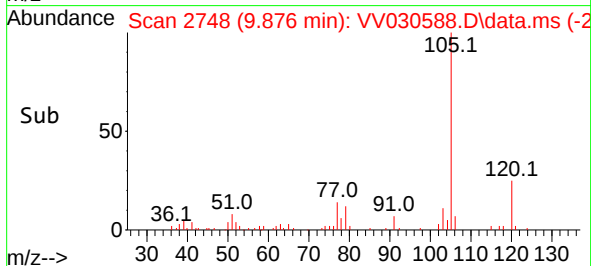
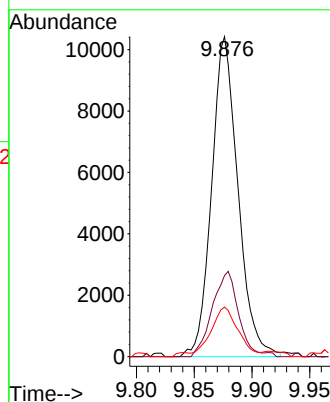
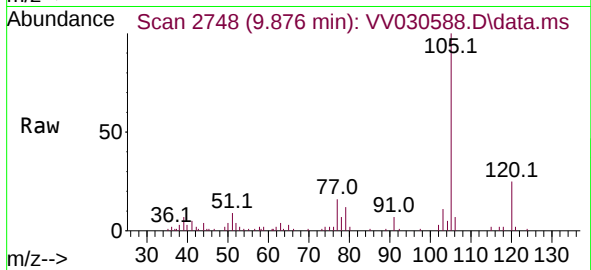
#60
Isopropylbenzene
Concen: 2.157 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion:105 Resp: 1652
Ion Ratio Lower Upper
105 100
120 26.3 20.9 31.3
77 15.4 13.0 19.6

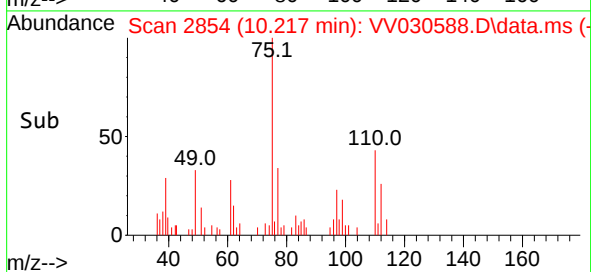
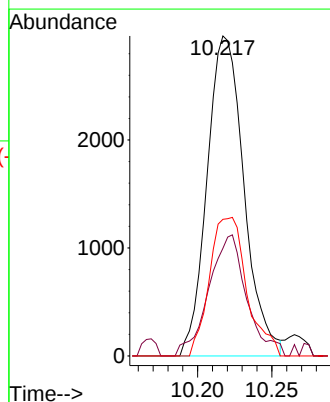
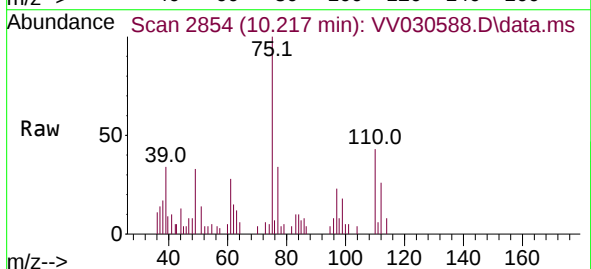
Manual Integrations
APPROVED

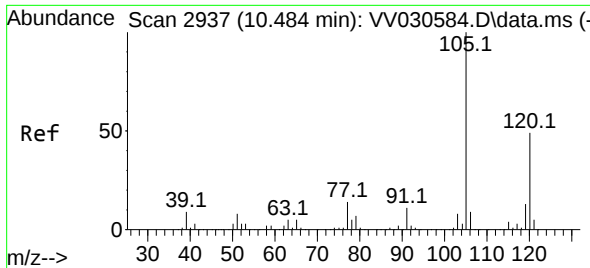
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#61
1,2,3-Trichloropropane
Concen: 2.330 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion: 75 Resp: 5125
Ion Ratio Lower Upper
75 100
77 37.3 25.7 38.5
110 43.7 32.8 49.2





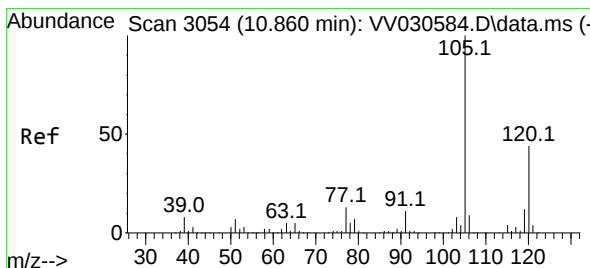
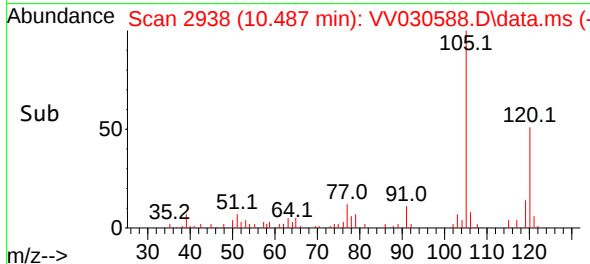
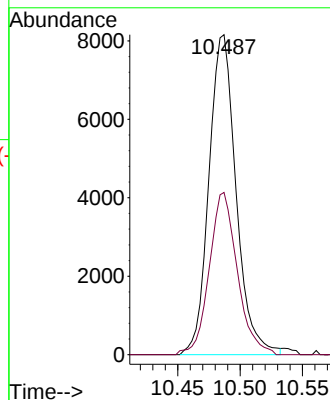
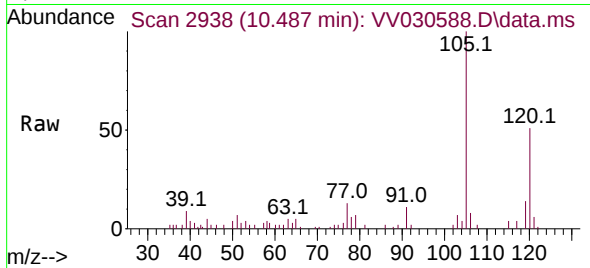
#62
1,3,5-Trimethylbenzene
Concen: 1.965 ug/L
RT: 10.487 min Scan# 2937
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument : MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion:105 Resp: 1239
Ion Ratio Lower Upper
105 100
120 52.3 39.2 58.8

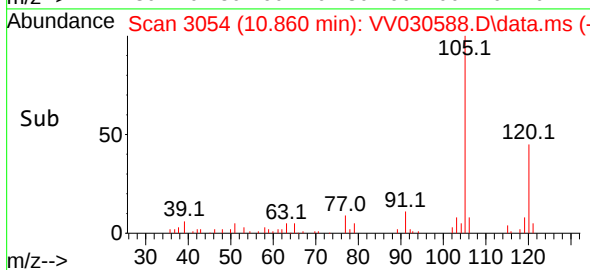
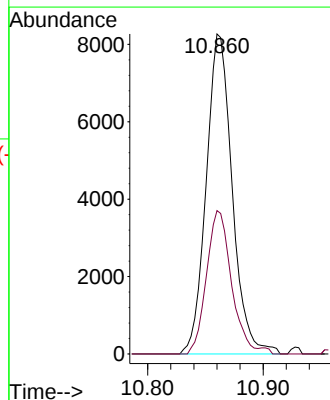
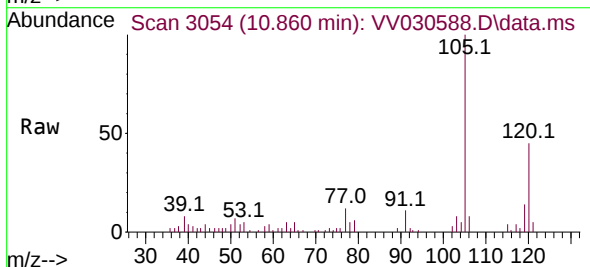
Manual Integrations
APPROVED

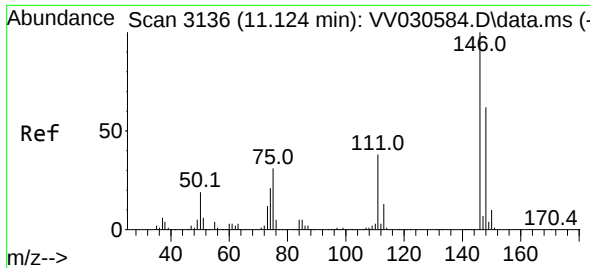
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#63
1,2,4-Trimethylbenzene
Concen: 2.055 ug/L
RT: 10.860 min Scan# 3054
Delta R.T. 0.000 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:105 Resp: 12938
Ion Ratio Lower Upper
105 100
120 42.6 36.2 54.4





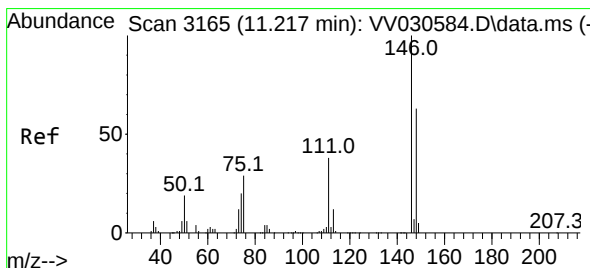
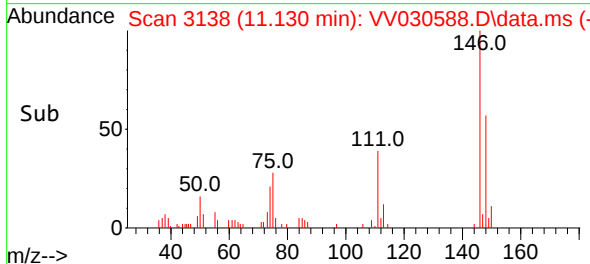
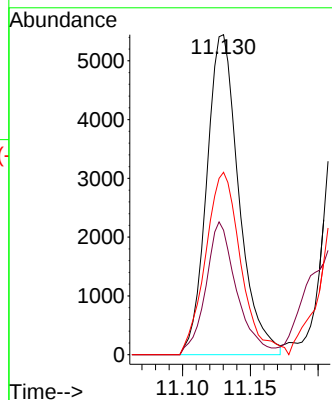
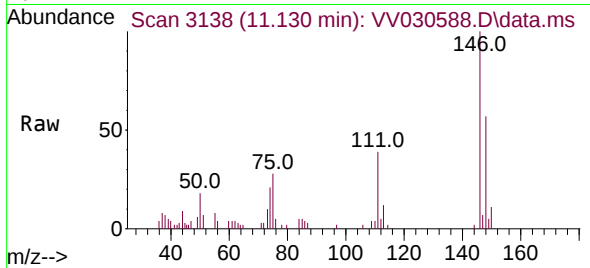
#64
1,3-Dichlorobenzene
Concen: 2.351 ug/L
RT: 11.130 min Scan# 3136
Delta R.T. 0.007 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT2-2023-03

Tgt Ion:146 Resp: 901
Ion Ratio Lower Upper
146 100
111 38.9 27.0 50.2
148 57.0 44.8 83.2

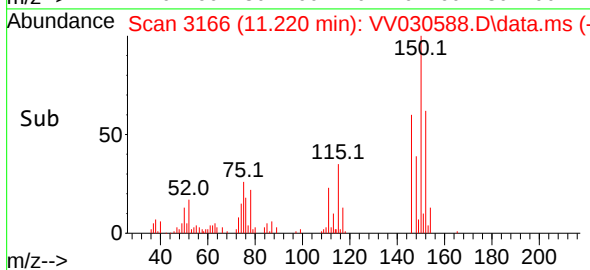
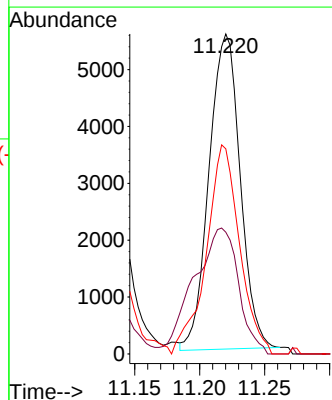
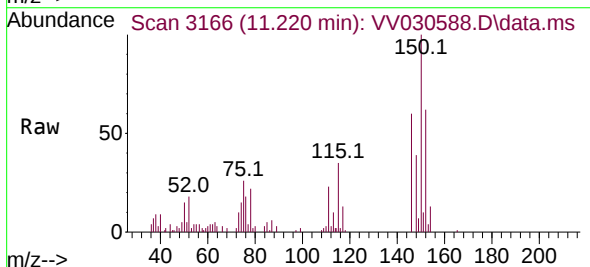
Manual Integrations
APPROVED

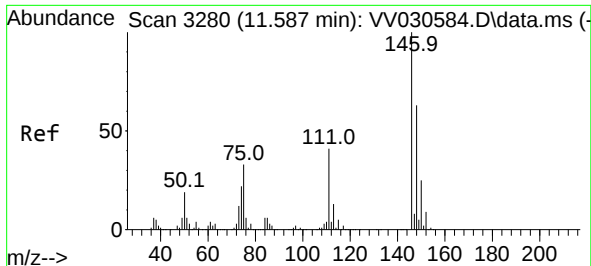
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#65
1,4-Dichlorobenzene
Concen: 2.284 ug/L
RT: 11.220 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VV030588.D
Acq: 17 Apr 2023 14:59

Tgt Ion:146 Resp: 9236
Ion Ratio Lower Upper
146 100
111 38.1 26.5 49.1
148 64.1 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 2.497 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03

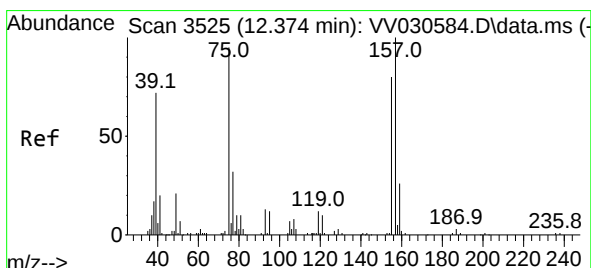
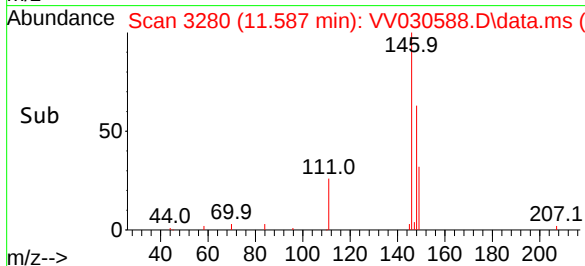
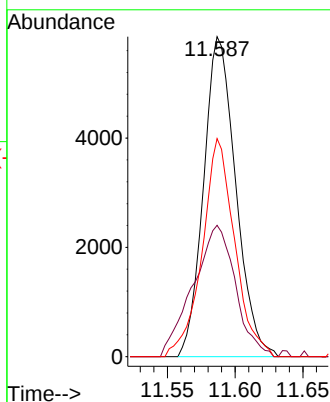
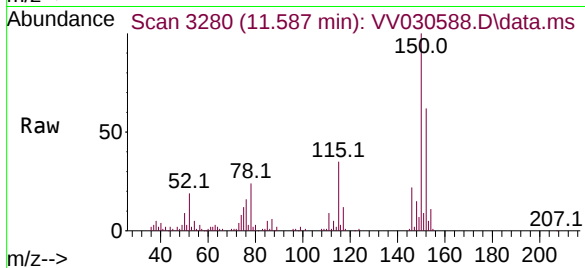
Tgt Ion:	146	Resp:	965
Ion Ratio	Lower	Upper	
146	100		
111	41.1	32.0	48.0
148	68.1	50.6	76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#68

1,2-Dibromo-3-chloropropane

Concen: 2.785 ug/L

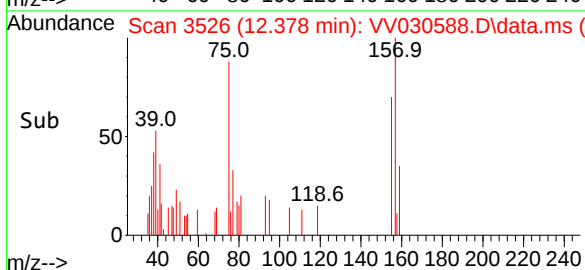
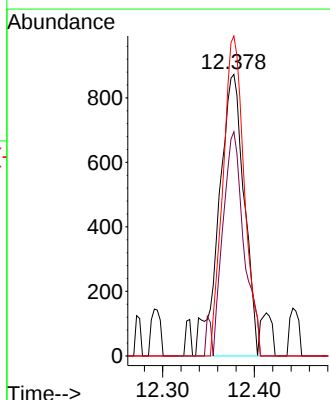
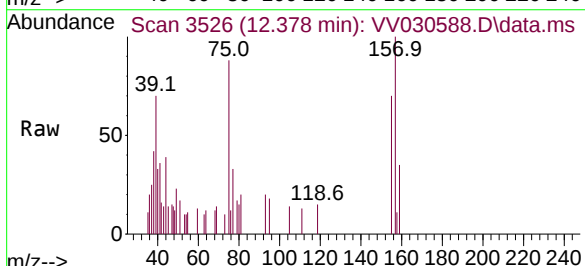
RT: 12.378 min Scan# 3526

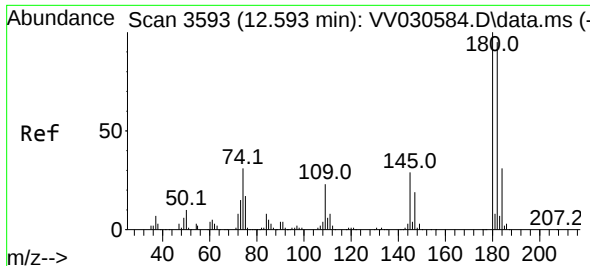
Delta R.T. 0.003 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Tgt Ion:	75	Resp:	1815
Ion Ratio	Lower	Upper	
75	100		
155	79.6	65.0	97.6
157	125.9	84.4	126.6





#69

1,3,5-Trichlorobenzene

Concen: 2.167 ug/L

RT: 12.596 min Scan# 3594

Delta R.T. 0.003 min

Lab File: VV030588.D

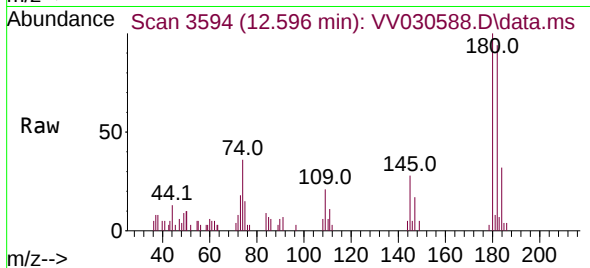
Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03



Tgt Ion:180 Resp: 6278

Ion Ratio Lower Upper

180 100

182 97.7 76.4 114.6

184 34.7 24.1 36.1

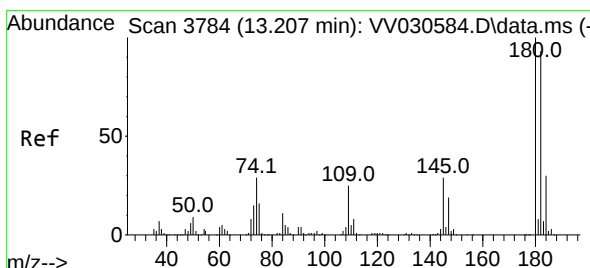
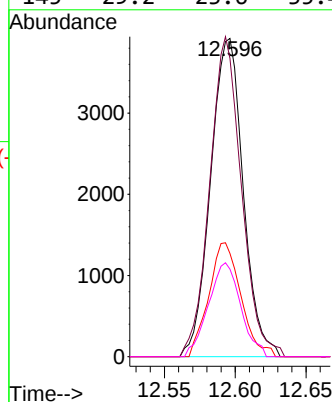
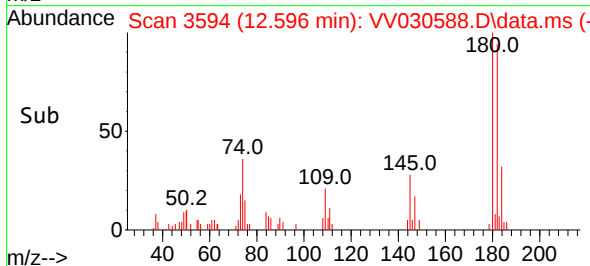
145 29.2 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#70

1,2,4-trichlorobenzene

Concen: 2.308 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.000 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

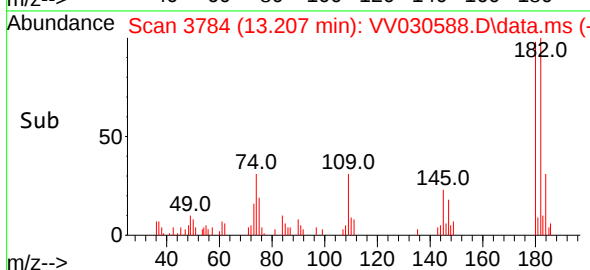
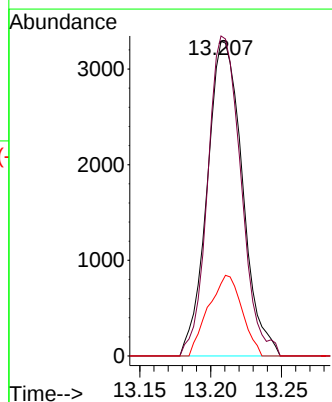
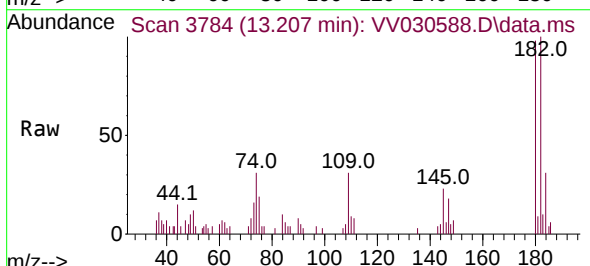
Tgt Ion:180 Resp: 5677

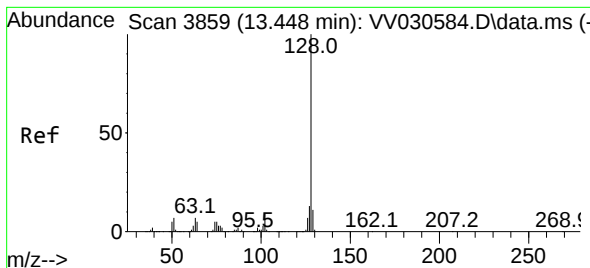
Ion Ratio Lower Upper

180 100

182 94.9 75.9 113.9

145 24.4 23.4 35.2





#71

Naphthalene

Concen: 2.194 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.000 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT2-2023-03

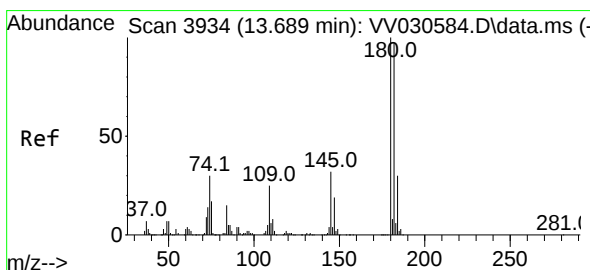
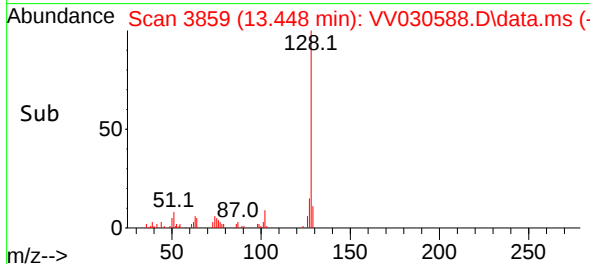
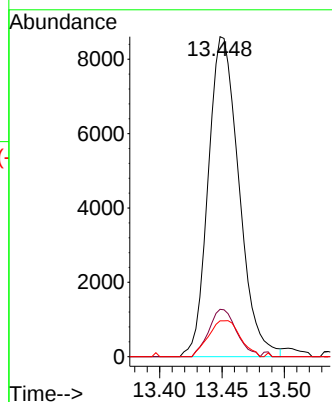
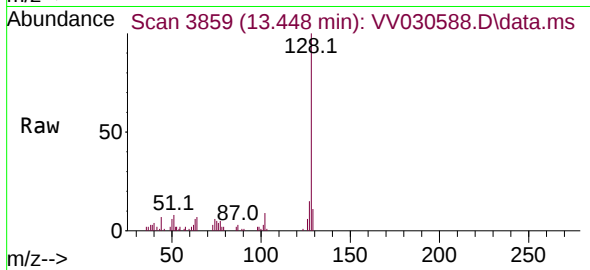
Tgt Ion:	128	Resp:	1476
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.7	16.1
129	11.6	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#72

1,2,3-Trichlorobenzene

Concen: 2.237 ug/L

RT: 13.690 min Scan# 3934

Delta R.T. 0.000 min

Lab File: VV030588.D

Acq: 17 Apr 2023 14:59

Tgt Ion:	180	Resp:	5456
Ion Ratio	Lower	Upper	
180	100		
182	87.3	76.2	114.4
145	29.2	25.1	37.7

