

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD103123\
 Data File : VD077458.D
 Acq On : 31 Oct 2023 13:58
 Operator : JC/SY
 Sample : 04696-03 2.5 ppb
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07 2.5PPB

Quant Time: Nov 01 06:06:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D103023S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 31 04:19:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/01/2023
 Supervised By : Mahesh Dadoda 11/01/2023

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	254370	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	450079	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	396030	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	178070	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	182189	50.651	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.300%			
35) Dibromofluoromethane	7.810	113	159330	51.219	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.440%			
50) Toluene-d8	10.269	98	629834	52.126	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.260%			
62) 4-Bromofluorobenzene	12.575	95	203087	49.903	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.800%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.928	85	5289	2.579	ug/l	97
3) Chloromethane	2.152	50	8184	2.513	ug/l	98
4) Vinyl Chloride	2.287	62	7662	2.413	ug/l	91
5) Bromomethane	2.699	94	5552	3.337	ug/l	90
6) Chloroethane	2.840	64	5251	2.456	ug/l #	61
7) Trichlorofluoromethane	3.181	101	10203	2.294	ug/l	91
8) Diethyl Ether	3.593	74	3896	2.437	ug/l #	26
9) 1,1,2-Trichlorotrifluo...	3.969	101	6387	2.379	ug/l #	86
10) Methyl Iodide	4.175	142	6162	4.851	ug/l #	82
11) Tert butyl alcohol	5.046	59	5335	18.724	ug/l #	88
12) 1,1-Dichloroethene	3.940	96	6381	2.511	ug/l #	73
13) Acrolein	3.799	56	5011	13.337	ug/l	92
14) Allyl chloride	4.558	41	14228	2.321	ug/l #	74
15) Acrylonitrile	5.269	53	9732	11.263	ug/l	91
16) Acetone	4.028	43	17083	17.948	ug/l #	74
17) Carbon Disulfide	4.269	76	11998	5.172	ug/l	99
18) Methyl Acetate	4.575	43	7245	2.087	ug/l #	73
19) Methyl tert-butyl Ether	5.328	73	17943	2.249	ug/l	97
20) Methylene Chloride	4.810	84	18852	2.996	ug/l #	59
21) trans-1,2-Dichloroethene	5.328	96	6779	2.290	ug/l	84
22) Diisopropyl ether	6.216	45	31270	2.400	ug/l #	85
23) Vinyl Acetate	6.152	43	64056m	11.394	ug/l	
24) 1,1-Dichloroethane	6.122	63	16268	2.406	ug/l	97
25) 2-Butanone	7.093	43	23439	18.463	ug/l #	60
26) 2,2-Dichloropropane	7.075	77	18132	3.026	ug/l	84
27) cis-1,2-Dichloroethene	7.069	96	9537	2.601	ug/l	55
28) Bromochloromethane	7.434	49	6768	4.221	ug/l #	51
29) Tetrahydrofuran	7.457	42	8930	11.860	ug/l #	75
30) Chloroform	7.604	83	14515	2.299	ug/l	97
31) Cyclohexane	7.881	56	18486	3.288	ug/l #	74
32) 1,1,1-Trichloroethane	7.793	97	12209	2.347	ug/l #	92
36) 1,1-Dichloropropene	8.016	75	10834	2.349	ug/l	91
37) Ethyl Acetate	7.169	43	7358	2.780	ug/l #	68
38) Carbon Tetrachloride	7.993	117	10576	2.433	ug/l #	88
39) Methylcyclohexane	9.269	83	10643	2.022	ug/l #	71
40) Benzene	8.251	78	31500	2.395	ug/l	96

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Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/01/2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.410	41	3683	2.175	ug/l #	81
42) 1,2-Dichloroethane	8.328	62	9854	2.366	ug/l	100
43) Isopropyl Acetate	8.363	43	11661	2.135	ug/l #	83
44) Trichloroethene	9.034	130	6840	2.123	ug/l	88
45) 1,2-Dichloropropane	9.304	63	9119	2.355	ug/l	93
46) Dibromomethane	9.398	93	4284	2.299	ug/l #	85
47) Bromodichloromethane	9.581	83	11606	2.356	ug/l	91
48) Methyl methacrylate	9.381	41	5550	2.129	ug/l #	72
49) 1,4-Dioxane	9.393	88	927	46.298	ug/l #	91
51) 4-Methyl-2-Pentanone	10.157	43	29887	11.116	ug/l #	84
52) Toluene	10.334	92	18962	2.365	ug/l	98
53) t-1,3-Dichloropropene	10.557	75	11821	2.267	ug/l #	87
54) cis-1,3-Dichloropropene	10.016	75	12873	2.145	ug/l #	66
55) 1,1,2-Trichloroethane	10.734	97	5950	2.393	ug/l #	88
56) Ethyl methacrylate	10.598	69	8301	2.246	ug/l #	53
57) 1,3-Dichloropropane	10.881	76	10301	2.217	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.869	63	17122	9.253	ug/l	91
59) 2-Hexanone	10.928	43	22405	11.312	ug/l	77
60) Dibromochloromethane	11.075	129	6530	2.184	ug/l	95
61) 1,2-Dibromoethane	11.175	107	5263	2.236	ug/l	99
64) Tetrachloroethene	10.804	164	5445	2.160	ug/l	90
65) Chlorobenzene	11.610	112	18730	2.257	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.681	131	6929	2.210	ug/l	91
67) Ethyl Benzene	11.687	91	37771	2.366	ug/l	98
68) m/p-Xylenes	11.792	106	26020	4.514	ug/l #	74
69) o-Xylene	12.122	106	12346	2.236	ug/l	73
70) Styrene	12.134	104	22868	2.401	ug/l #	90
71) Bromoform	12.298	173	3662	2.107	ug/l #	100
73) Isopropylbenzene	12.422	105	34699	2.390	ug/l	91
74) N-amyl acetate	12.234	43	12500	2.431	ug/l #	79
75) 1,1,2,2-Tetrachloroethane	12.669	83	6902	2.425	ug/l	96
76) 1,2,3-Trichloropropane	12.722	75	4498m	2.075	ug/l	
77) Bromobenzene	12.698	156	7387	2.312	ug/l	66
78) n-propylbenzene	12.763	91	45185	2.451	ug/l	92
79) 2-Chlorotoluene	12.851	91	24812	2.377	ug/l	87
80) 1,3,5-Trimethylbenzene	12.904	105	28381	2.330	ug/l	88
82) 4-Chlorotoluene	12.945	91	25481	2.344	ug/l	86
83) tert-Butylbenzene	13.169	119	23250	2.270	ug/l	84
84) 1,2,4-Trimethylbenzene	13.210	105	28262	2.335	ug/l	95
85) sec-Butylbenzene	13.345	105	37408	2.387	ug/l	95
86) p-Isopropyltoluene	13.457	119	30351	2.383	ug/l	94
87) 1,3-Dichlorobenzene	13.457	146	14876	2.368	ug/l	97
88) 1,4-Dichlorobenzene	13.539	146	15648m	2.493	ug/l	
89) n-Butylbenzene	13.786	91	33018	2.494	ug/l	95
90) Hexachloroethane	14.051	117	6433	2.468	ug/l	92
91) 1,2-Dichlorobenzene	13.834	146	12865	2.330	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.445	75	1265	2.639	ug/l	64
93) 1,2,4-Trichlorobenzene	15.098	180	8126	2.143	ug/l	90
94) Hexachlorobutadiene	15.204	225	4424	2.163	ug/l	93
95) Naphthalene	15.328	128	16862	2.331	ug/l	97
96) 1,2,3-Trichlorobenzene	15.522	180	7211	2.203	ug/l	99

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MDL-SOIL-QT4-2023-07 2.5PPB

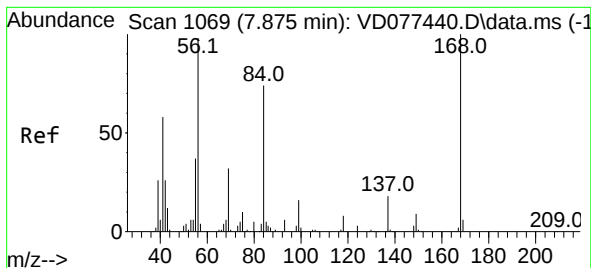
Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 06:06:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D103023S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 31 04:19:17 2023
Response via : Initial Calibration

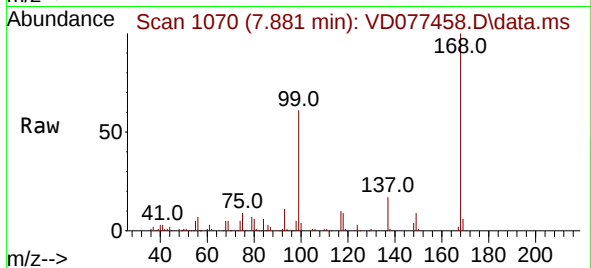
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. 0.006 min
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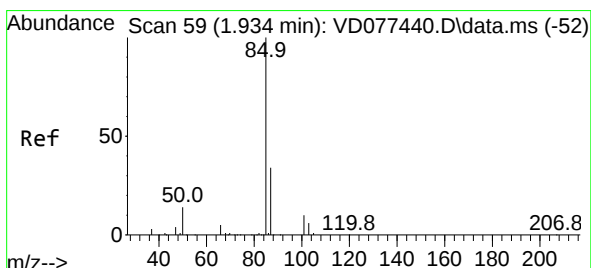
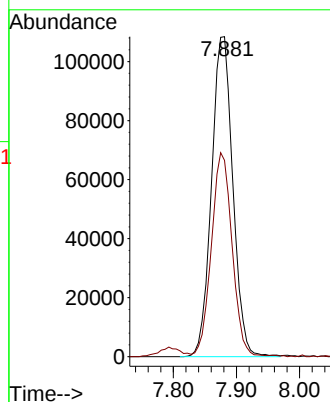
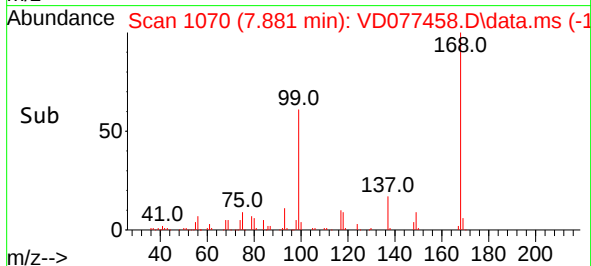
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion:168 Resp: 254370
Ion Ratio Lower Upper
168 100
99 61.1 36.7 55.1

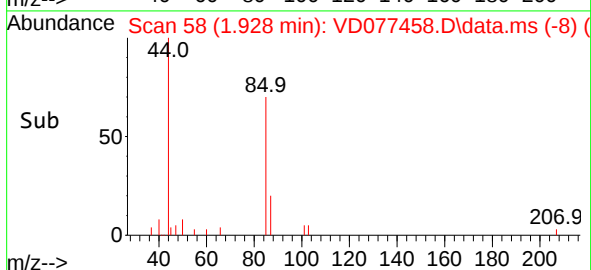
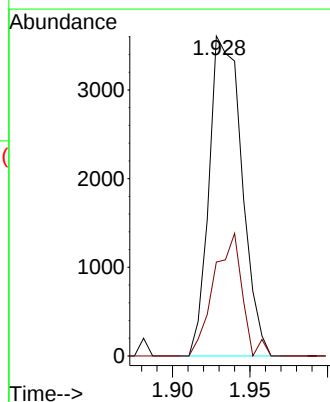
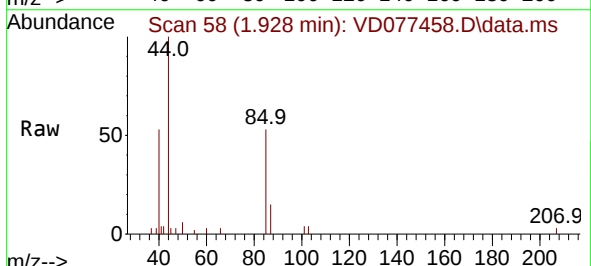
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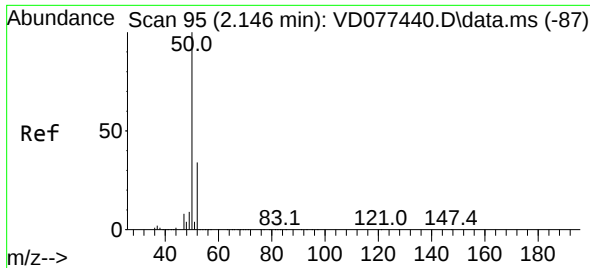
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#2
Dichlorodifluoromethane
Concen: 2.579 ug/l
RT: 1.928 min Scan# 58
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion: 85 Resp: 5289
Ion Ratio Lower Upper
85 100
87 29.4 15.7 47.0





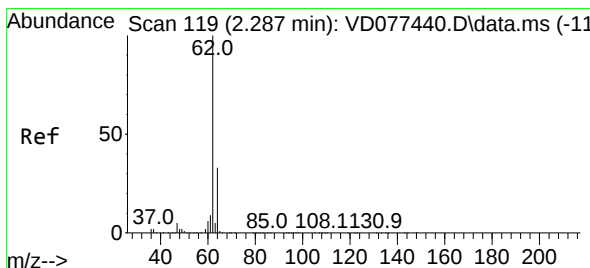
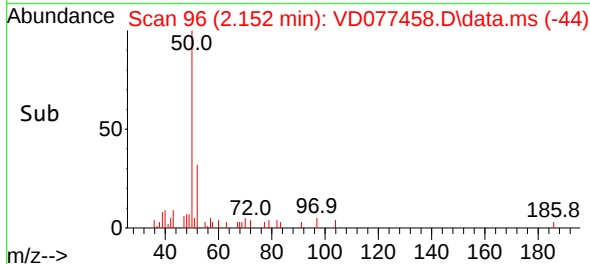
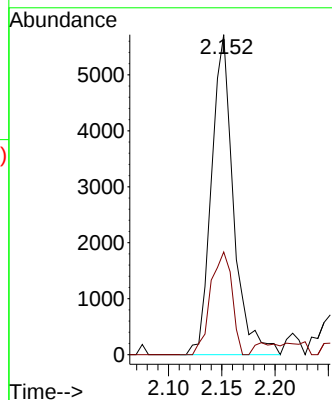
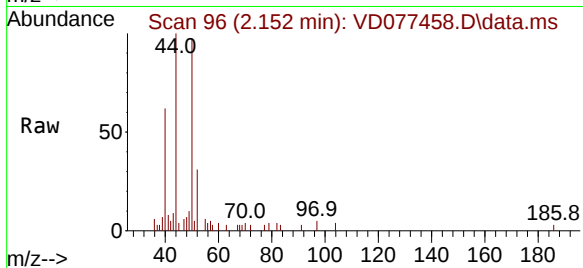
#3
Chloromethane
Concen: 2.513 ug/l
RT: 2.152 min Scan# 90
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 50 Resp: 8184
Ion Ratio Lower Upper
50 100
52 32.1 26.6 40.0

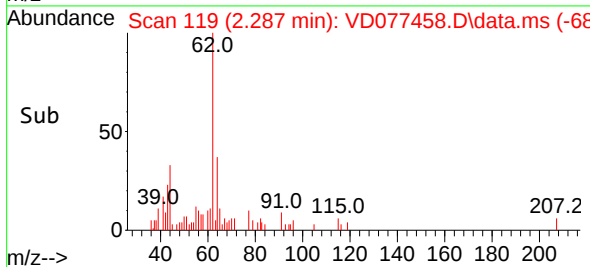
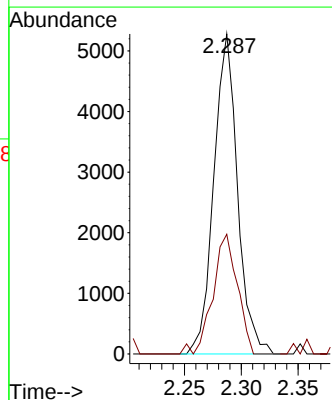
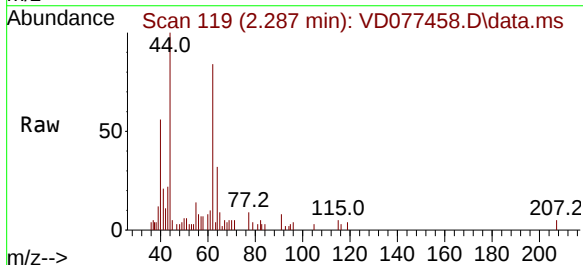
Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#4
Vinyl Chloride
Concen: 2.413 ug/l
RT: 2.287 min Scan# 119
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

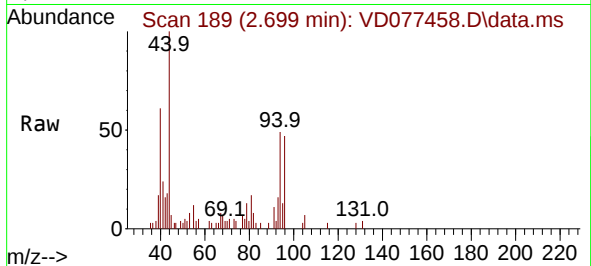
Tgt Ion: 62 Resp: 7662
Ion Ratio Lower Upper
62 100
64 37.4 26.0 39.0





#5
Bromomethane
Concen: 3.337 ug/l
RT: 2.699 min Scan# 188
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

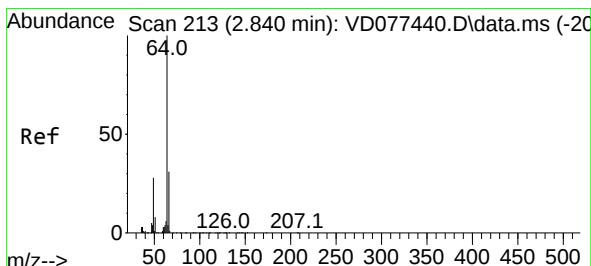
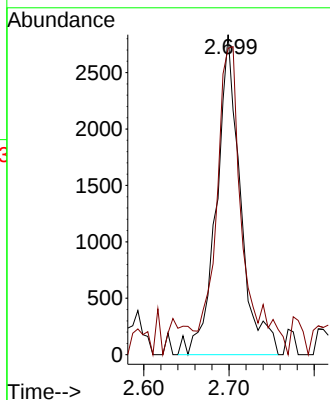
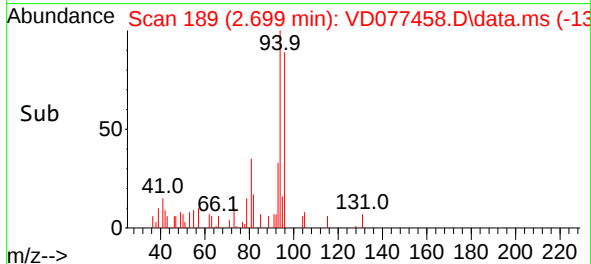
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 94 Resp: 555
Ion Ratio Lower Upper
94 100
96 104.2 75.8 113.8

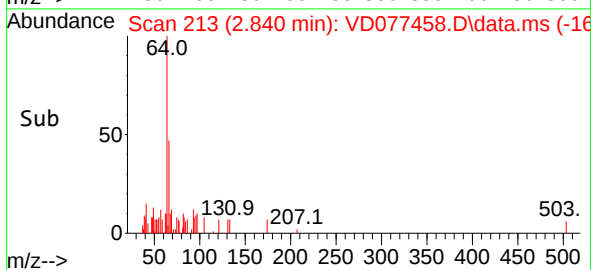
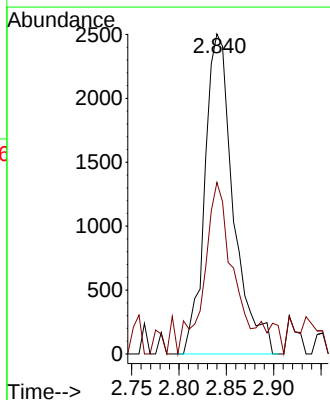
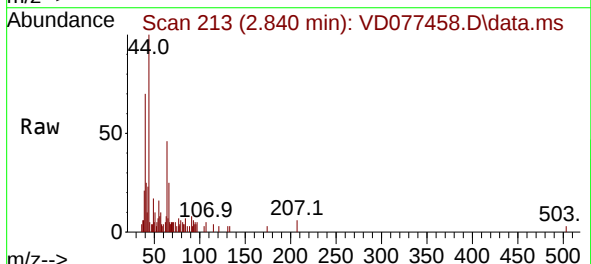
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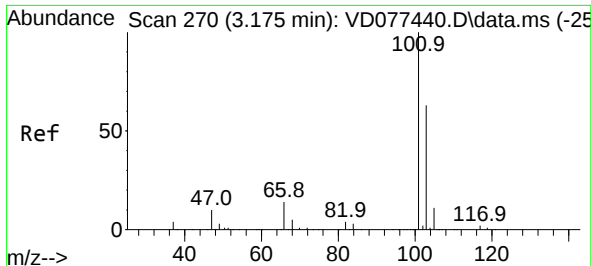
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#6
Chloroethane
Concen: 2.456 ug/l
RT: 2.840 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion: 64 Resp: 5251
Ion Ratio Lower Upper
64 100
66 53.6 25.5 38.3#





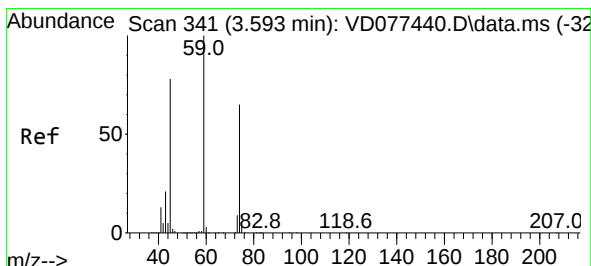
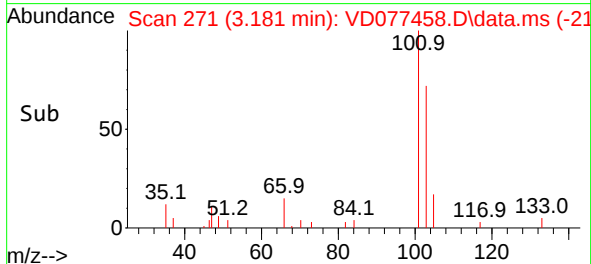
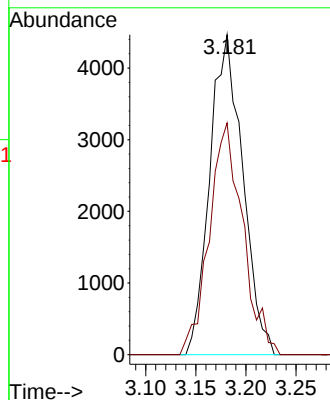
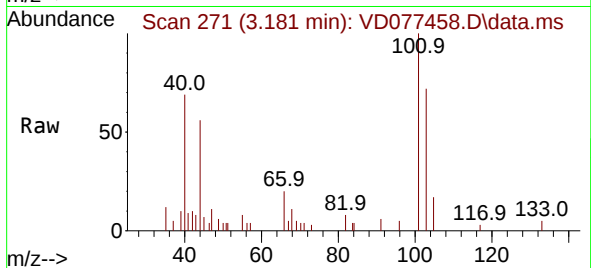
#7
Trichlorofluoromethane
Concen: 2.294 ug/l
RT: 3.181 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion:101 Resp: 1020
Ion Ratio Lower Upper
101 100
103 72.4 52.3 78.5

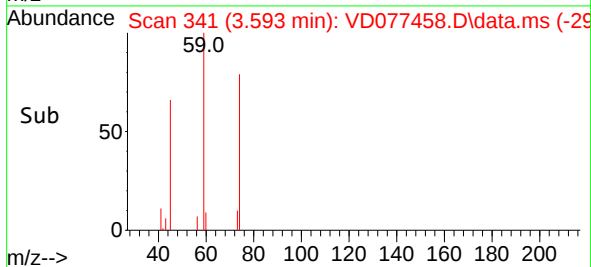
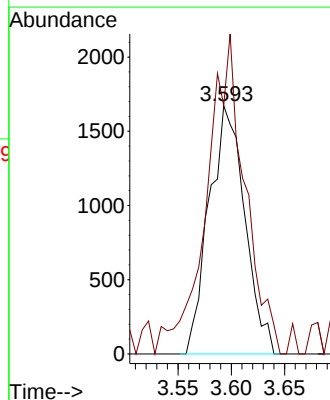
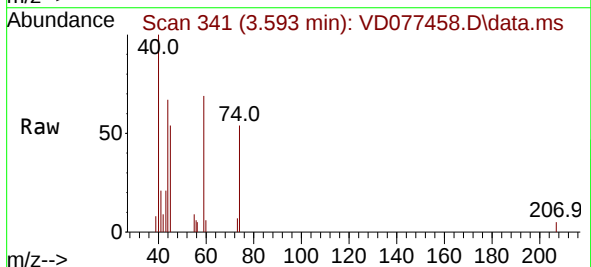
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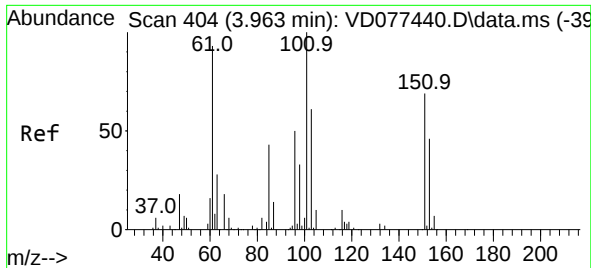
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#8
Diethyl Ether
Concen: 2.437 ug/l
RT: 3.593 min Scan# 341
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion: 74 Resp: 3896
Ion Ratio Lower Upper
74 100
45 138.2 37.5 112.7#





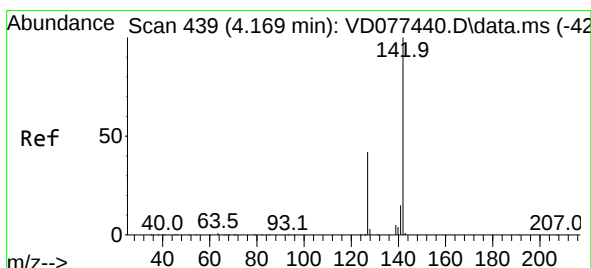
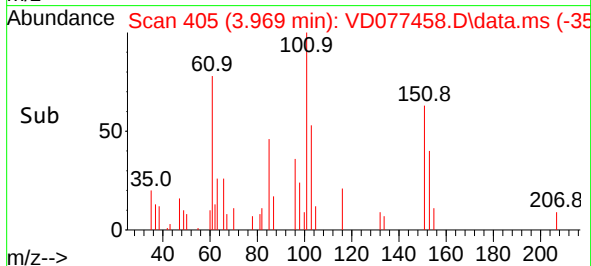
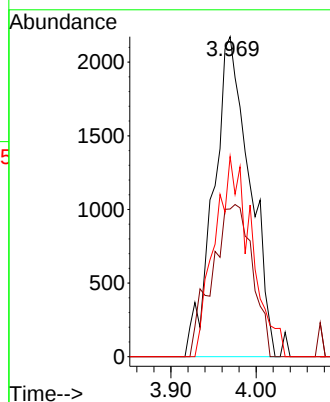
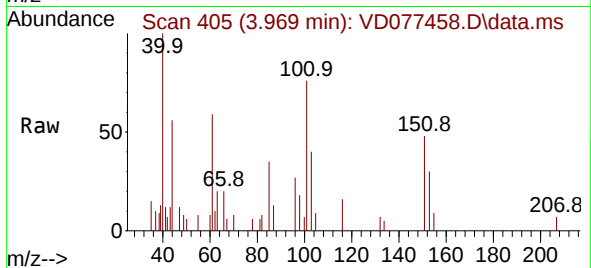
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.379 ug/l
RT: 3.969 min Scan# 404
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion:101 Resp: 638
Ion Ratio Lower Upper
101 100
85 53.1 33.8 50.6
151 64.1 59.8 89.6

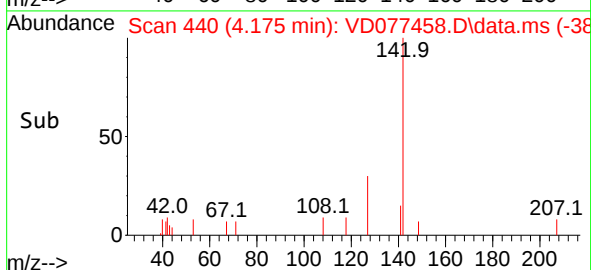
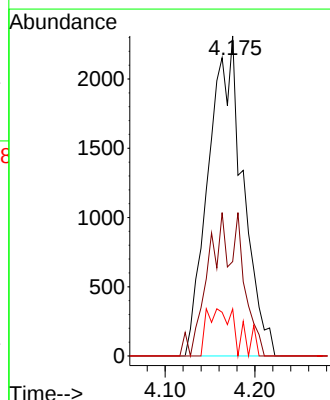
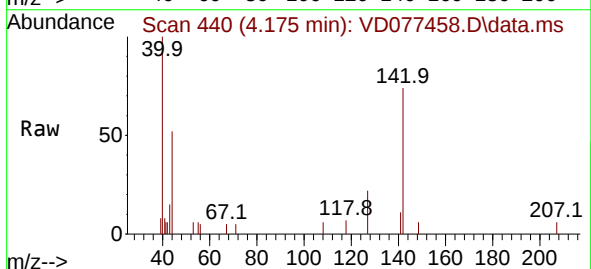
Manual Integrations
APPROVED

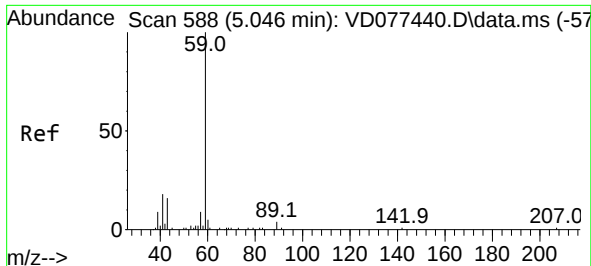
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#10
Methyl Iodide
Concen: 4.851 ug/l
RT: 4.175 min Scan# 440
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

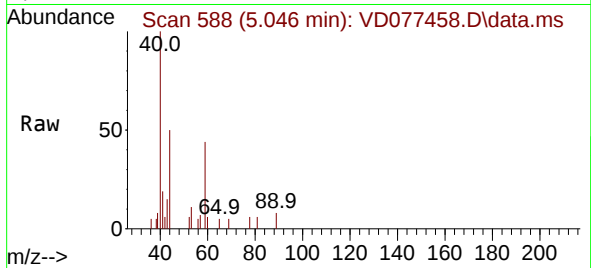
Tgt Ion:142 Resp: 6162
Ion Ratio Lower Upper
142 100
127 29.6 29.4 44.0
141 0.0 11.1 16.7#





#11
Tert butyl alcohol
Concen: 18.724 ug/l
RT: 5.046 min Scan# 588
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

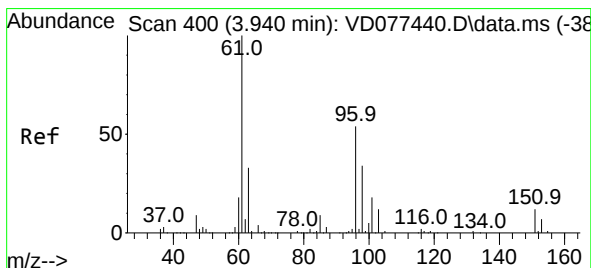
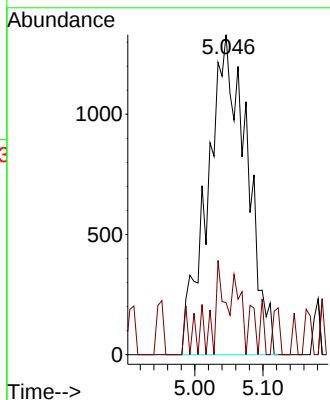
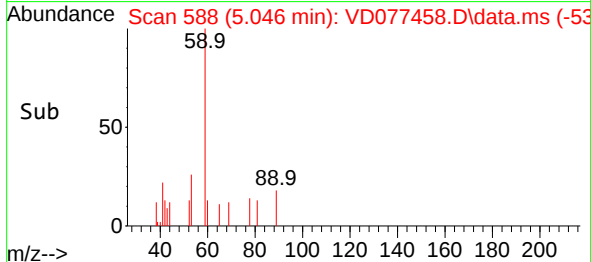
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



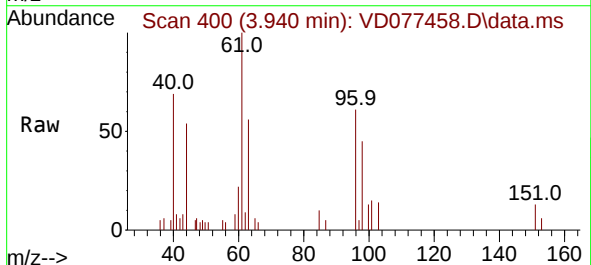
Tgt Ion: 59 Resp: 5338
Ion Ratio Lower Upper
59 100
57 5.5 7.8 11.8

Manual Integrations
APPROVED

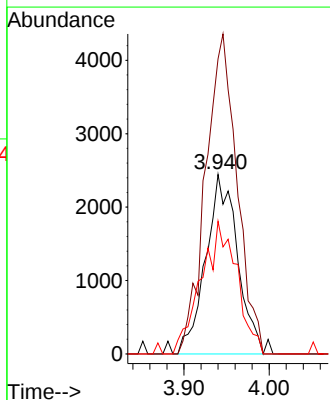
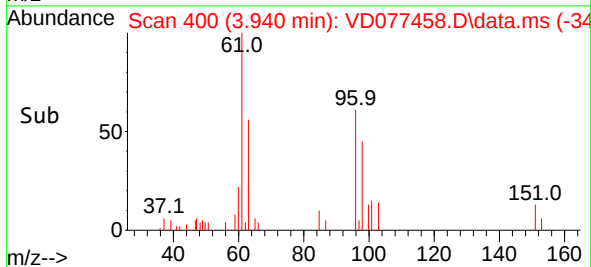
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

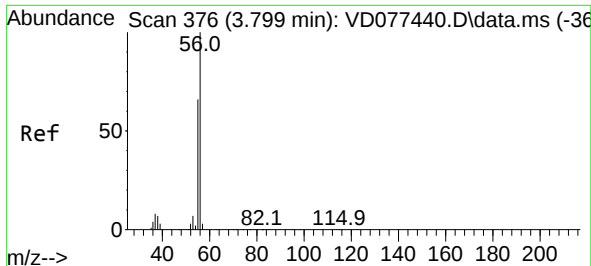


#12
1,1-Dichloroethene
Concen: 2.511 ug/l
RT: 3.940 min Scan# 400
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



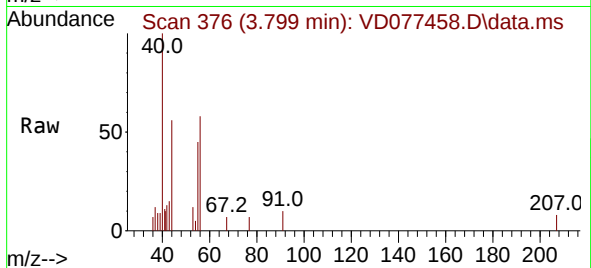
Tgt Ion: 96 Resp: 6381
Ion Ratio Lower Upper
96 100
61 164.3 100.6 150.8#
98 73.8 50.2 75.2





#13
Acrolein
Concen: 13.337 ug/l
RT: 3.799 min Scan# 31
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

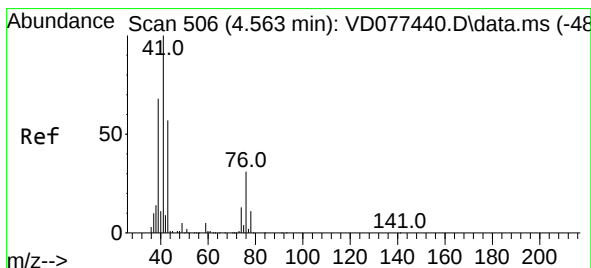
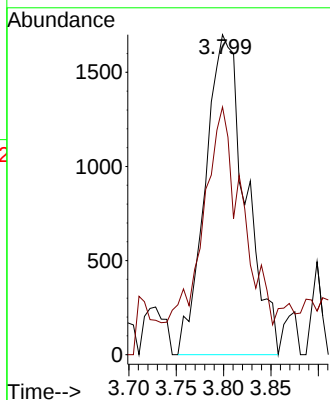
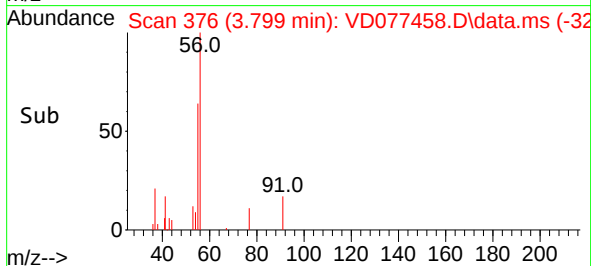
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 56 Resp: 501
Ion Ratio Lower Upper
56 100
55 62.5 55.1 82.7

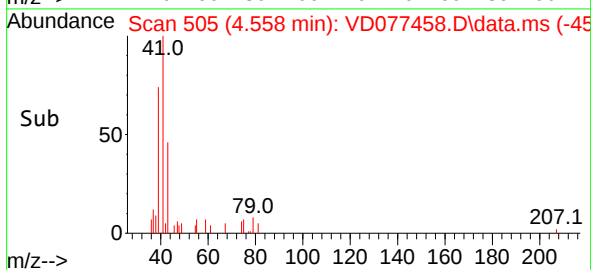
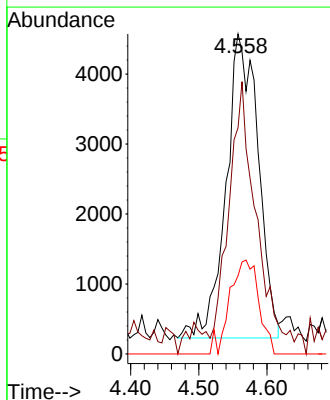
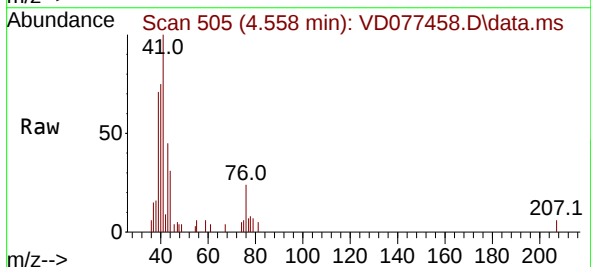
Manual Integrations
APPROVED

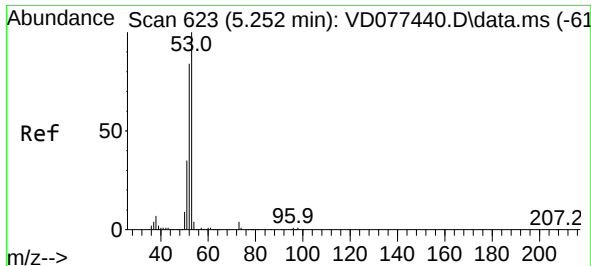
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#14
Allyl chloride
Concen: 2.321 ug/l
RT: 4.558 min Scan# 505
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

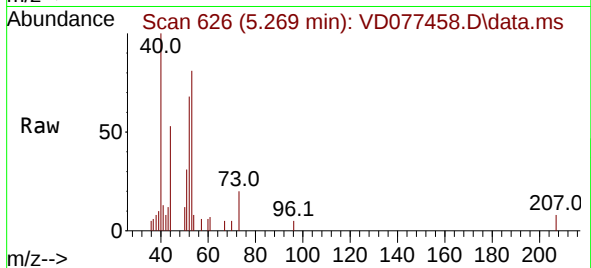
Tgt Ion: 41 Resp: 14228
Ion Ratio Lower Upper
41 100
39 78.9 53.8 80.6
76 27.7 45.8 68.8#





#15
Acrylonitrile
Concen: 11.263 ug/l
RT: 5.269 min Scan# 61
Delta R.T. 0.018 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

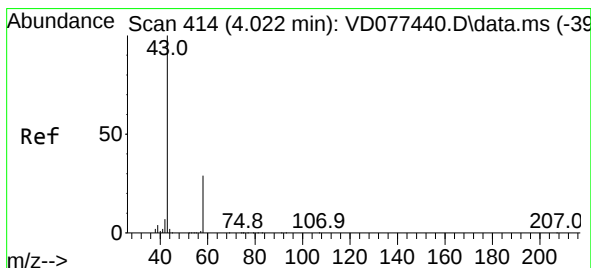
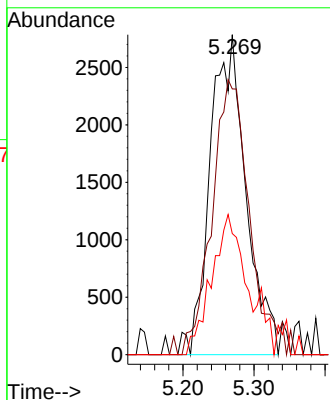
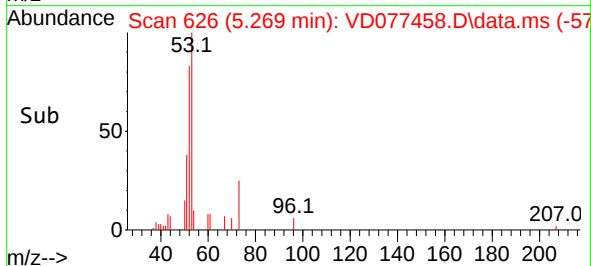
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 53 Resp: 973
Ion Ratio Lower Upper
53 100
52 90.5 65.0 97.4
51 38.6 28.3 42.5

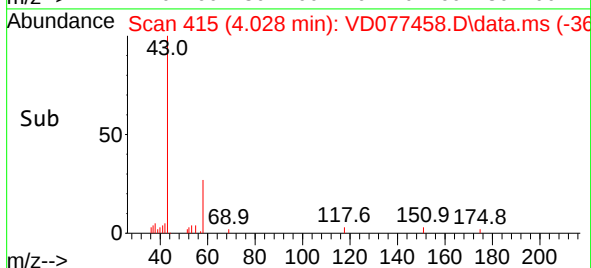
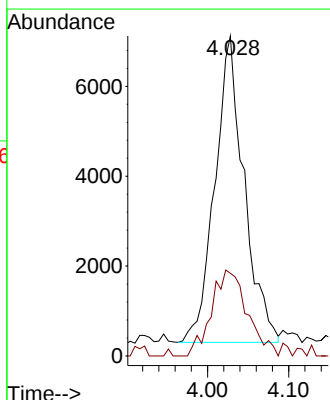
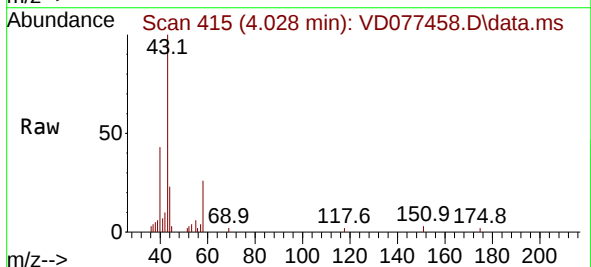
Manual Integrations
APPROVED

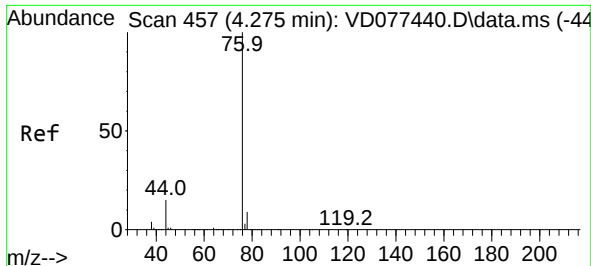
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#16
Acetone
Concen: 17.948 ug/l
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion: 43 Resp: 17083
Ion Ratio Lower Upper
43 100
58 27.0 34.7 52.1#





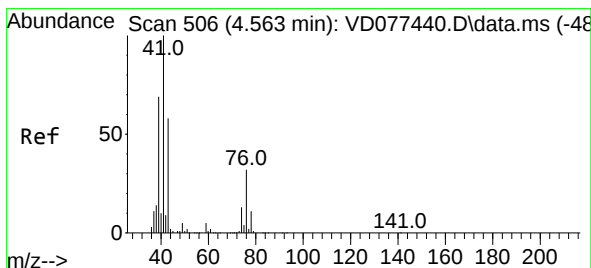
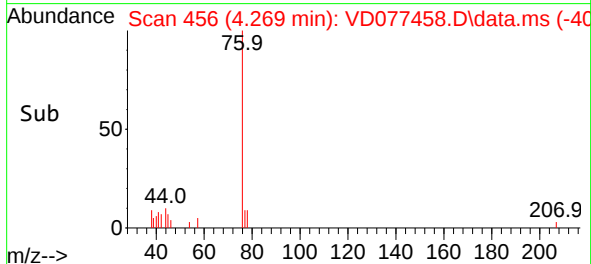
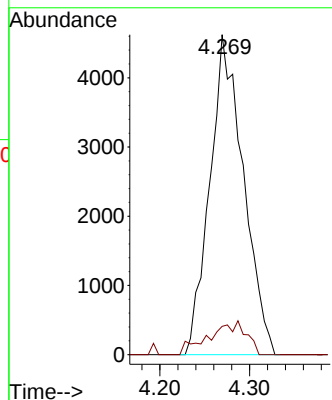
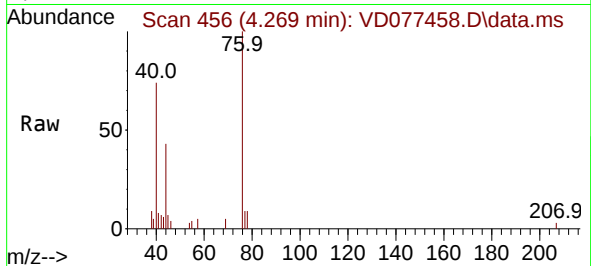
#17
Carbon Disulfide
Concen: 5.172 ug/l
RT: 4.269 min Scan# 411
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 76 Resp: 11998
Ion Ratio Lower Upper
76 100
78 8.8 6.8 10.2

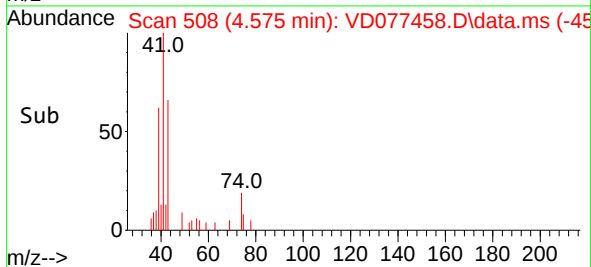
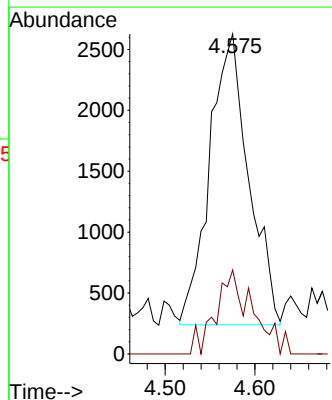
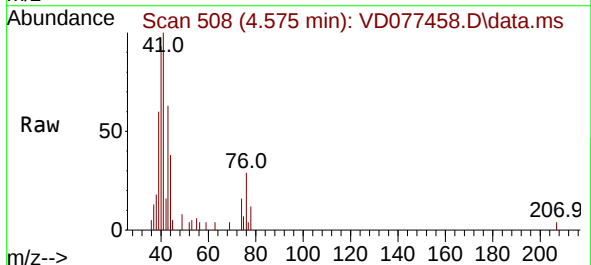
Manual Integrations
APPROVED

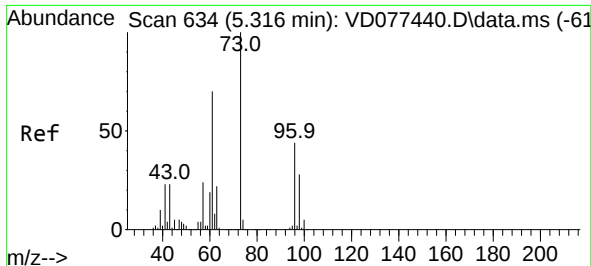
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#18
Methyl Acetate
Concen: 2.087 ug/l
RT: 4.575 min Scan# 508
Delta R.T. 0.012 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

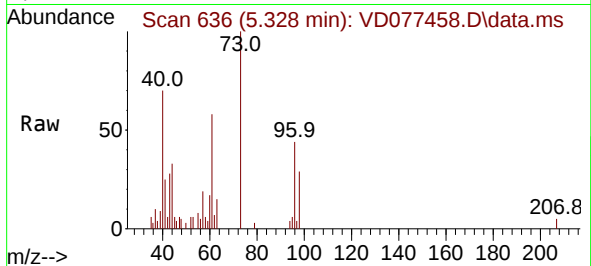
Tgt Ion: 43 Resp: 7245
Ion Ratio Lower Upper
43 100
74 17.8 26.4 39.6#





#19
Methyl tert-butyl Ether
Concen: 2.249 ug/l
RT: 5.328 min Scan# 61
Delta R.T. 0.012 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

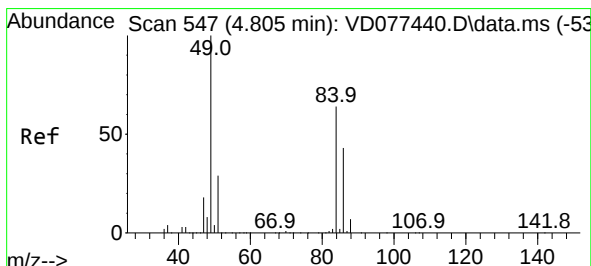
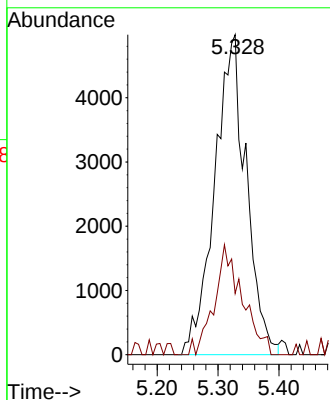
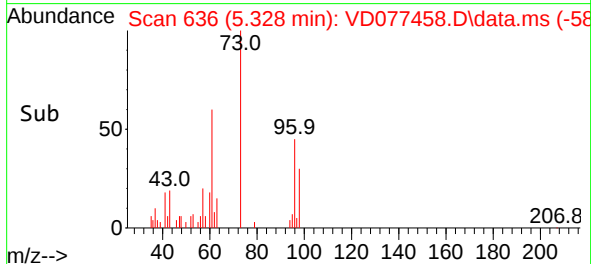
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 73 Resp: 1794
Ion Ratio Lower Upper
73 100
57 19.2 16.6 25.0

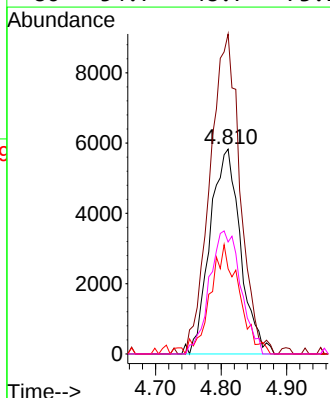
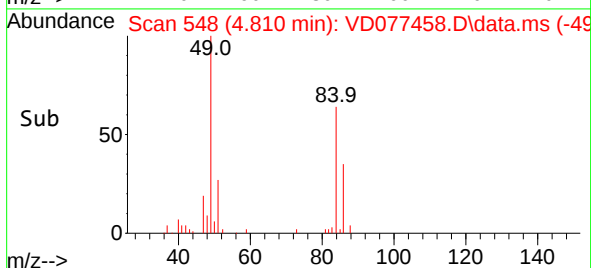
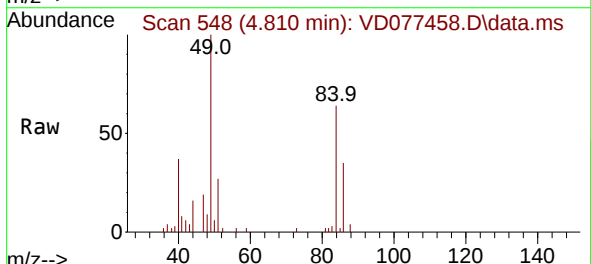
Manual Integrations
APPROVED

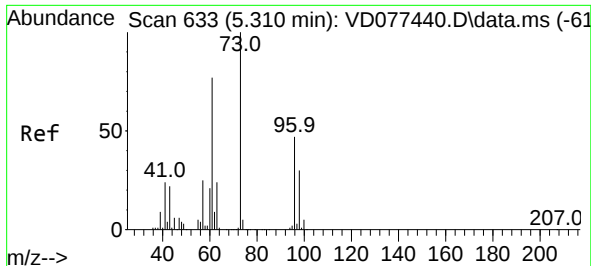
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#20
Methylene Chloride
Concen: 2.996 ug/l
RT: 4.810 min Scan# 548
Delta R.T. 0.005 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

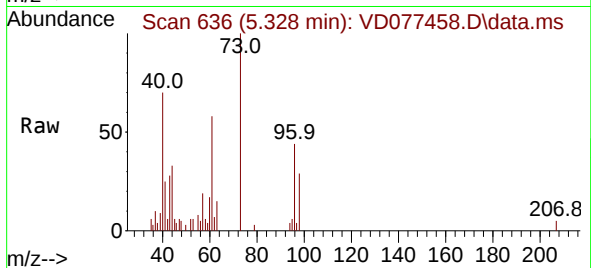
Tgt Ion: 84 Resp: 18852
Ion Ratio Lower Upper
84 100
49 156.2 71.4 107.2#
51 41.6 24.5 36.7#
86 54.7 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 2.290 ug/l
RT: 5.328 min Scan# 611
Delta R.T. 0.018 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

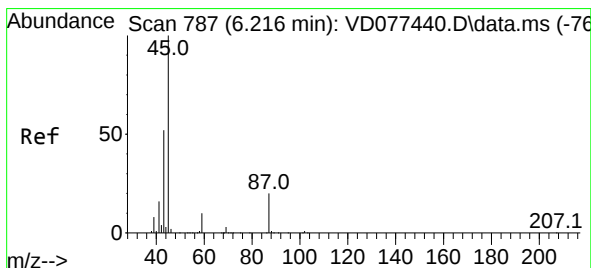
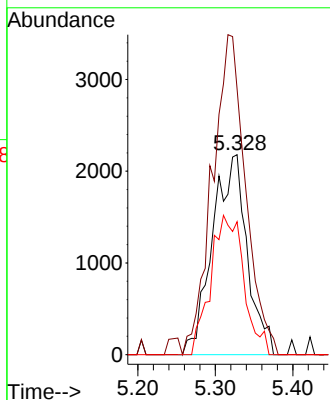
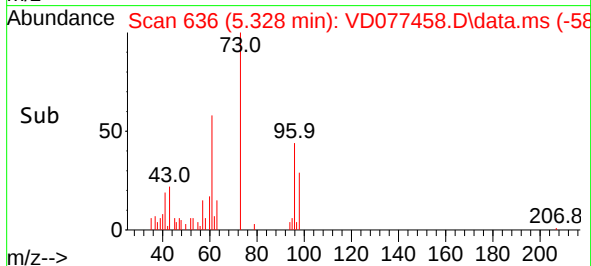
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 96 Resp: 6779
Ion Ratio Lower Upper
96 100
61 132.8 89.3 133.9
98 66.5 48.6 73.0

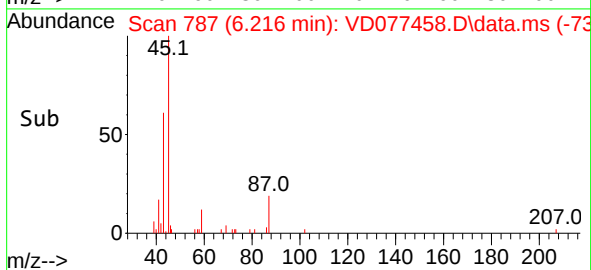
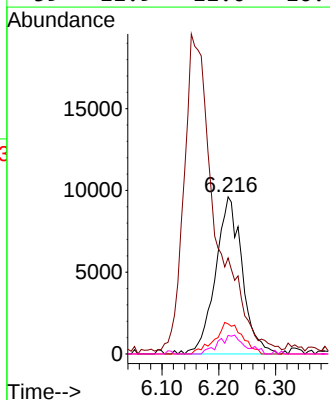
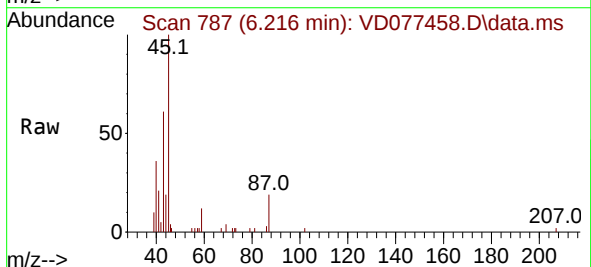
Manual Integrations
APPROVED

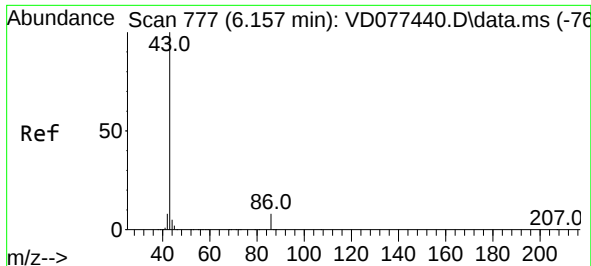
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#22
Diisopropyl ether
Concen: 2.400 ug/l
RT: 6.216 min Scan# 787
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

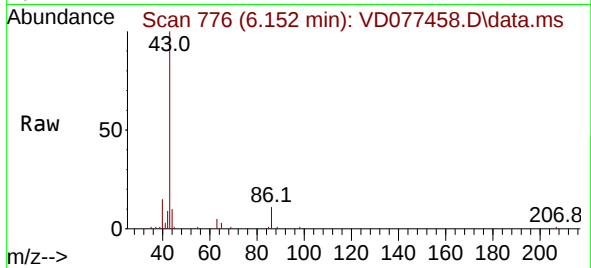
Tgt Ion: 45 Resp: 31270
Ion Ratio Lower Upper
45 100
43 56.2 40.0 60.0
87 19.1 28.2 42.4#
59 11.9 11.0 16.4





#23
 Vinyl Acetate
 Concen: 11.394 ug/l m
 RT: 6.152 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VD077458.D
 Acq: 31 Oct 2023 13:58

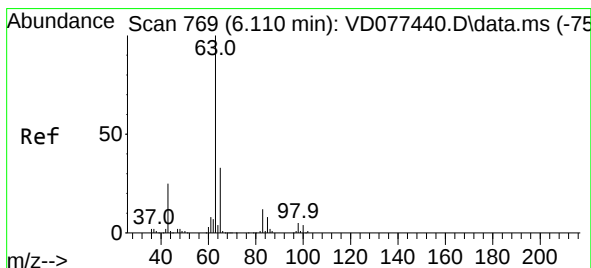
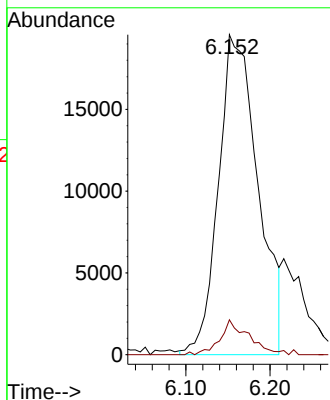
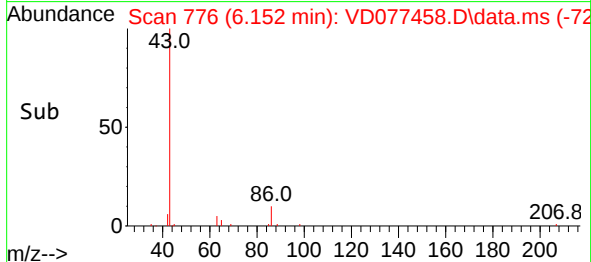
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 43 Resp: 6405
 Ion Ratio Lower Upper
 43 100
 86 10.9 12.5 18.7

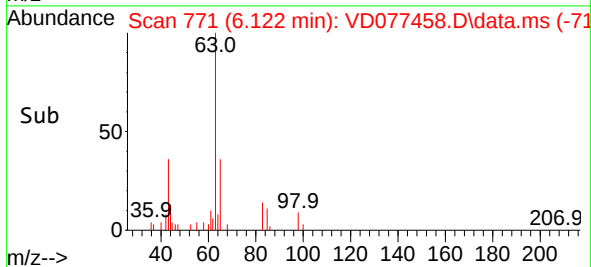
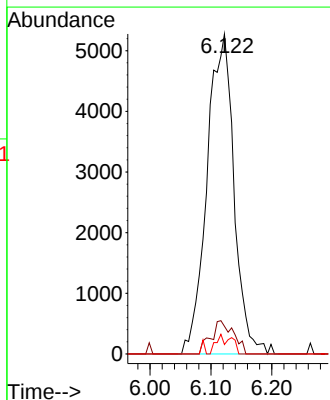
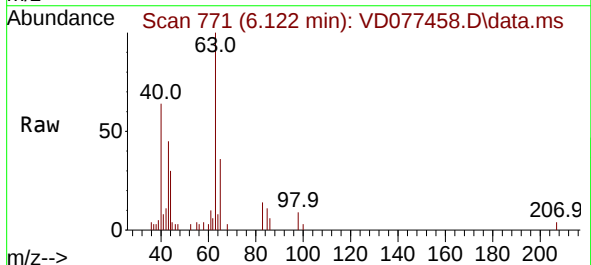
Manual Integrations
 APPROVED

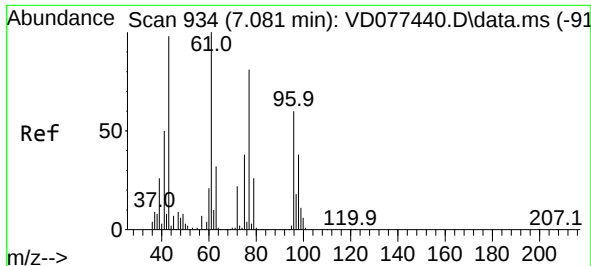
Reviewed By :John Carlone 11/01/2023
 Supervised By :Mahesh Dadoda 11/01/2023



#24
 1,1-Dichloroethane
 Concen: 2.406 ug/l
 RT: 6.122 min Scan# 771
 Delta R.T. 0.012 min
 Lab File: VD077458.D
 Acq: 31 Oct 2023 13:58

Tgt Ion: 63 Resp: 16268
 Ion Ratio Lower Upper
 63 100
 98 8.7 4.5 13.7
 100 3.0 2.5 7.5





#25

2-Butanone

Concen: 18.463 ug/l

RT: 7.093 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

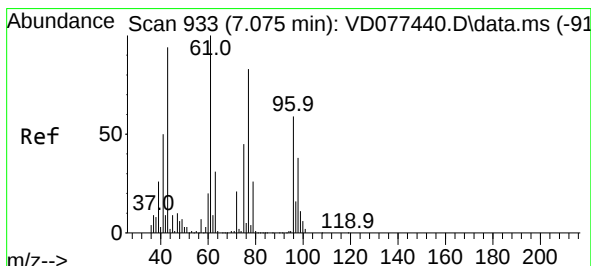
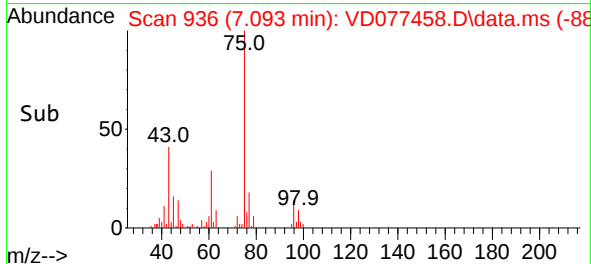
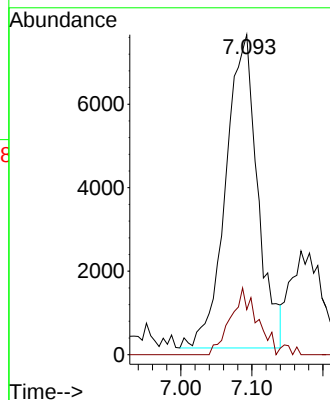
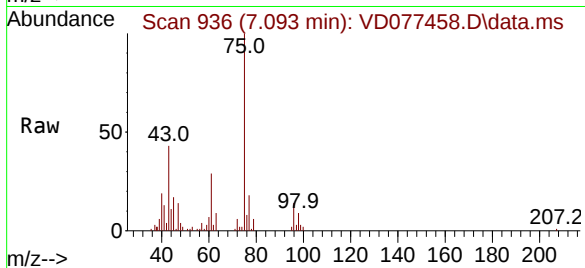
Tgt Ion: 43 Resp: 23439
 Ion Ratio Lower Upper
 43 100
 72 14.4 30.7 46.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#26

2,2-Dichloropropane

Concen: 3.026 ug/l

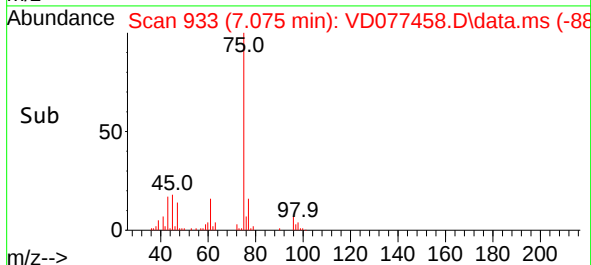
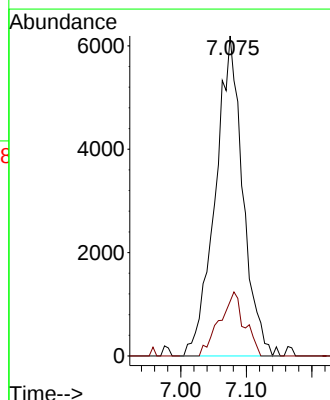
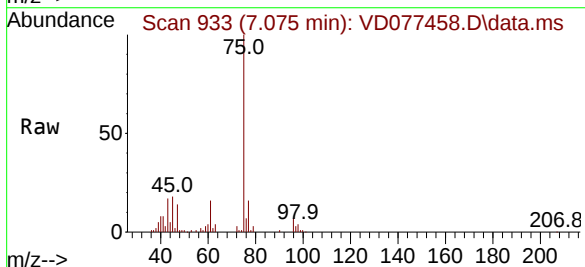
RT: 7.075 min Scan# 933

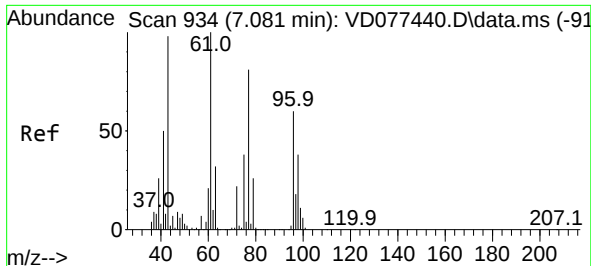
Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

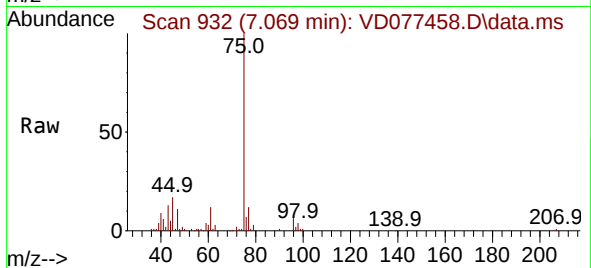
Tgt Ion: 77 Resp: 18132
 Ion Ratio Lower Upper
 77 100
 97 18.0 13.2 39.6





#27
 cis-1,2-Dichloroethene
 Concen: 2.601 ug/l
 RT: 7.069 min Scan# 91
 Delta R.T. -0.012 min
 Lab File: VD077458.D
 Acq: 31 Oct 2023 13:58

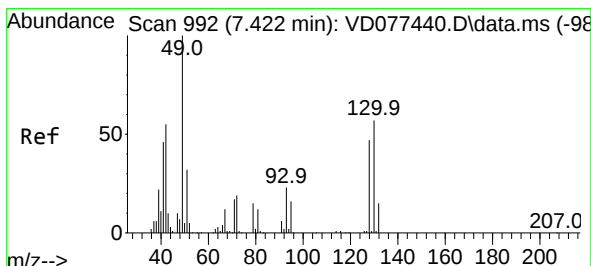
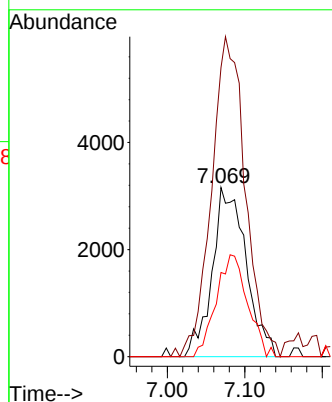
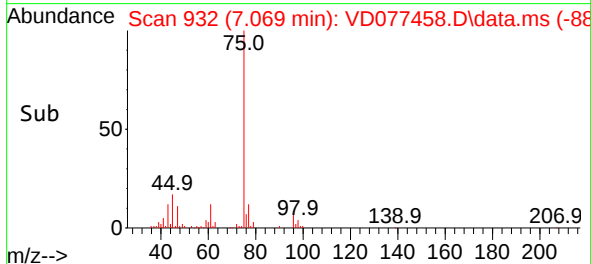
Instrument : MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 96 Resp: 953
 Ion Ratio Lower Upper
 96 100
 61 190.1 0.0 239.2
 98 56.3 0.0 128.6

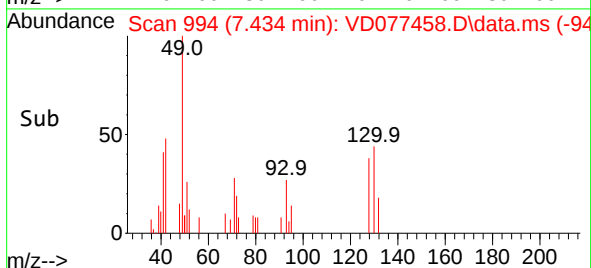
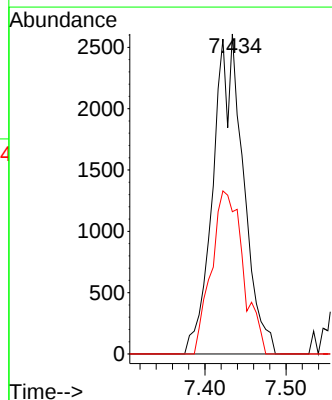
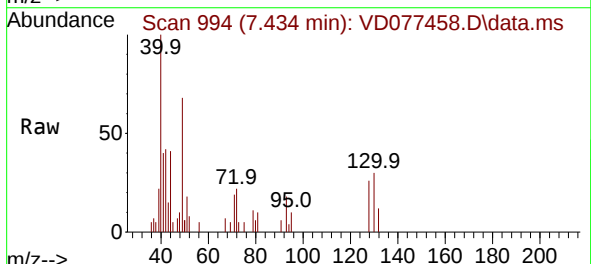
Manual Integrations
 APPROVED

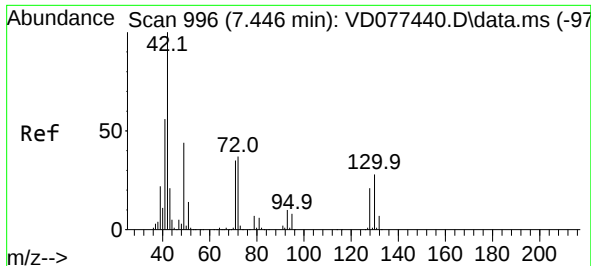
Reviewed By :John Carlone 11/01/2023
 Supervised By :Mahesh Dadoda 11/01/2023



#28
 Bromochloromethane
 Concen: 4.221 ug/l
 RT: 7.434 min Scan# 994
 Delta R.T. 0.012 min
 Lab File: VD077458.D
 Acq: 31 Oct 2023 13:58

Tgt Ion: 49 Resp: 6768
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 6.0
 130 53.1 83.2 124.8#





#29

Tetrahydrofuran

Concen: 11.860 ug/l

RT: 7.457 min Scan# 996

Delta R.T. 0.012 min

Lab File: VD077458.D

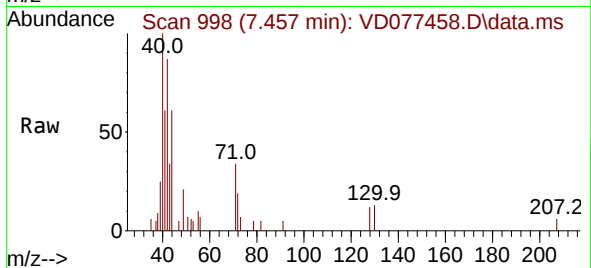
Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB



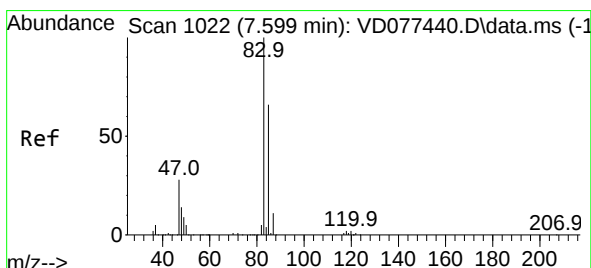
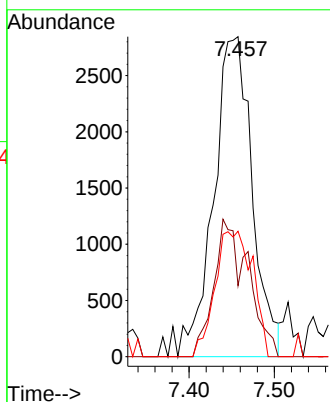
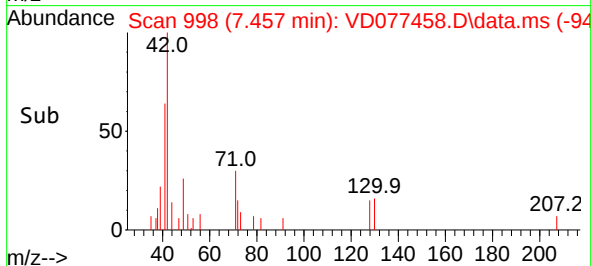
Tgt Ion:	42	Resp:	8930
Ion Ratio	Lower	Upper	
42	100		
72	38.3	46.5	69.7
71	38.4	44.5	66.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#30

Chloroform

Concen: 2.299 ug/l

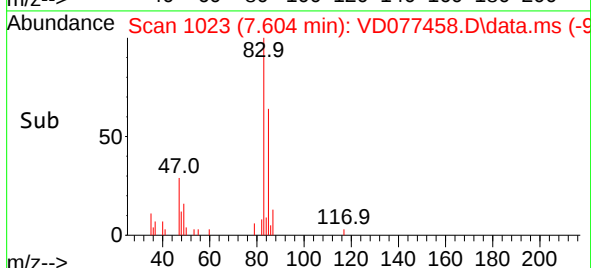
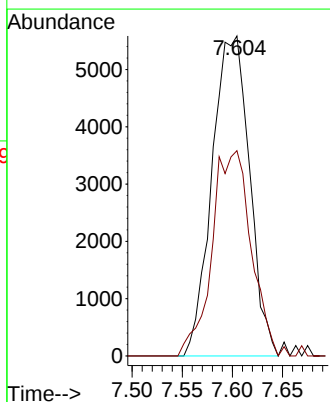
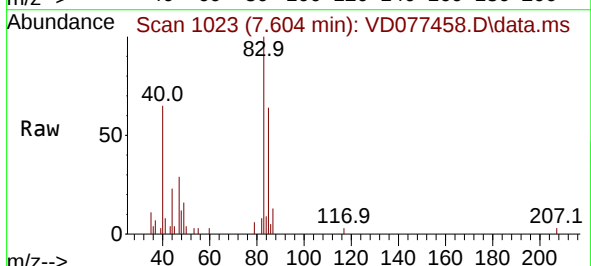
RT: 7.604 min Scan# 1023

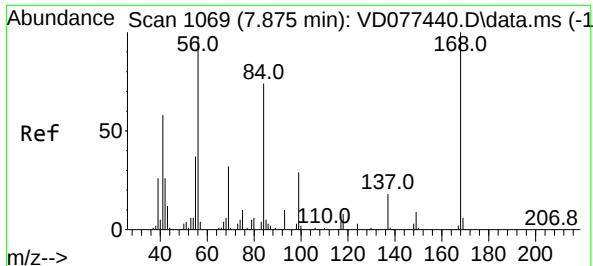
Delta R.T. 0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

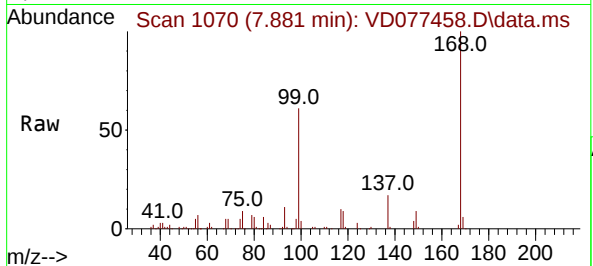
Tgt Ion:	83	Resp:	14515
Ion Ratio	Lower	Upper	
83	100		
85	64.2	53.4	80.2





#31
Cyclohexane
Concen: 3.288 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

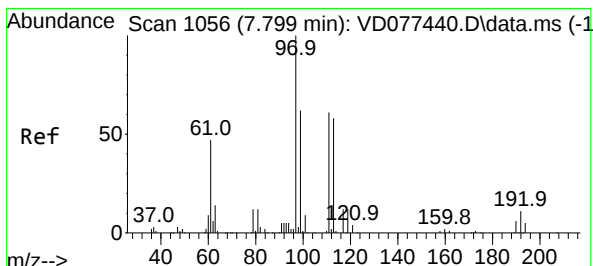
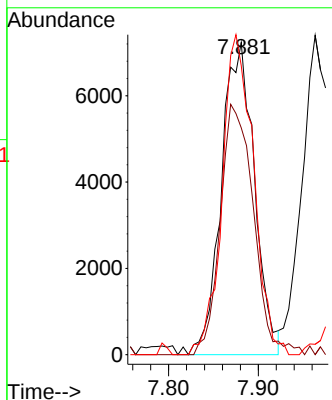
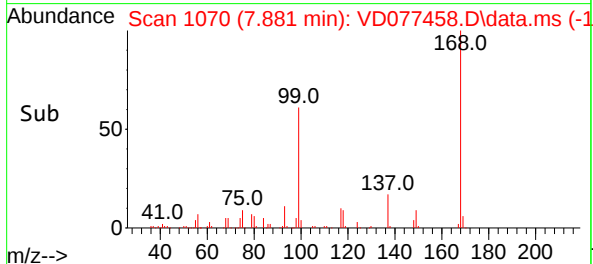
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 56 Resp: 18480
Ion Ratio Lower Upper
56 100
69 72.7 28.6 43.0
84 92.6 84.8 127.2

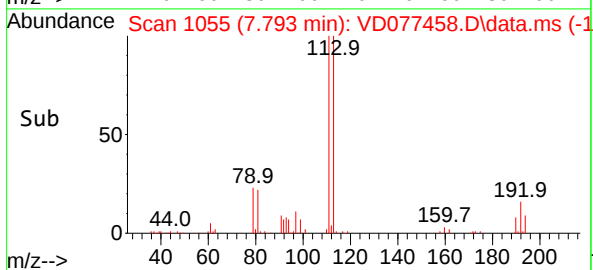
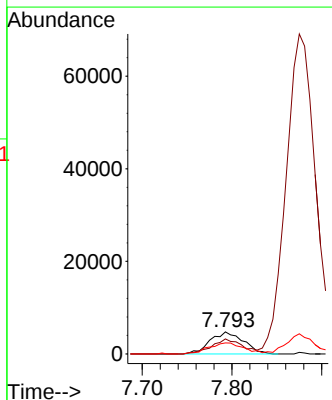
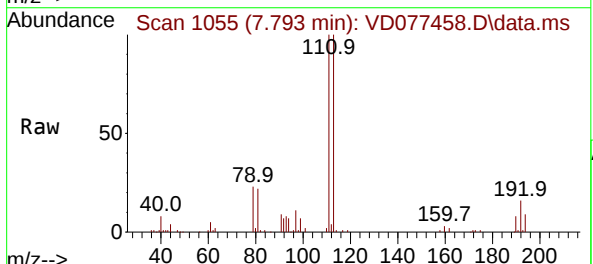
Manual Integrations
APPROVED

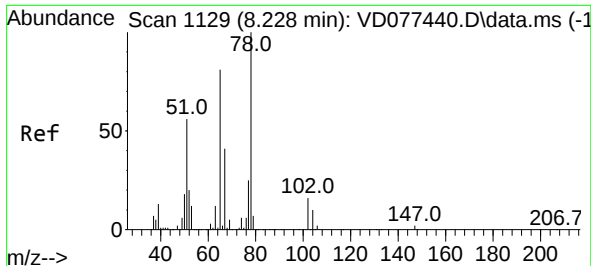
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#32
1,1,1-Trichloroethane
Concen: 2.347 ug/l
RT: 7.793 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion: 97 Resp: 12209
Ion Ratio Lower Upper
97 100
99 63.4 52.0 78.0
61 52.9 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 50.651 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD077458.D

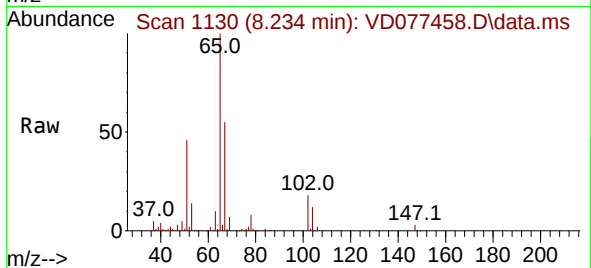
Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 65 Resp: 182189

Ion Ratio Lower Upper

65 100

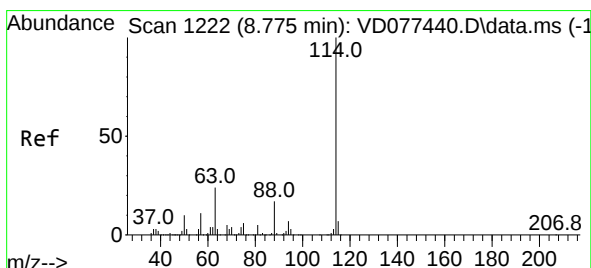
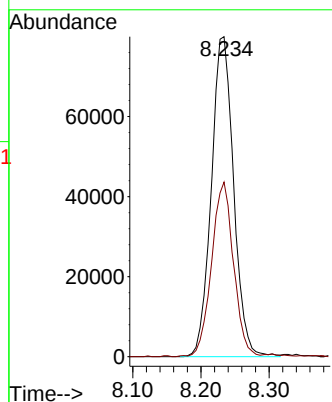
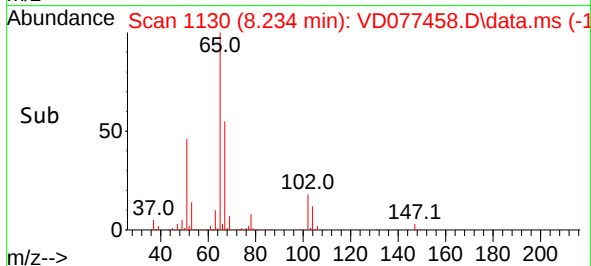
67 53.6 0.0 115.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

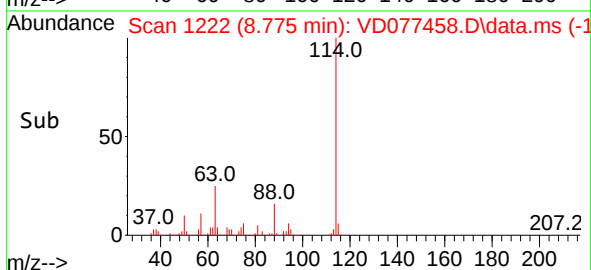
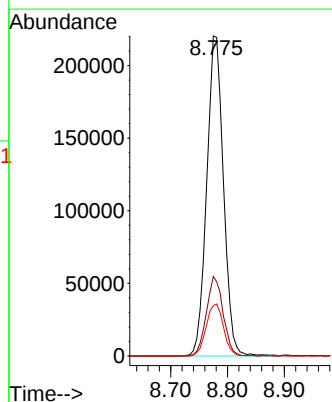
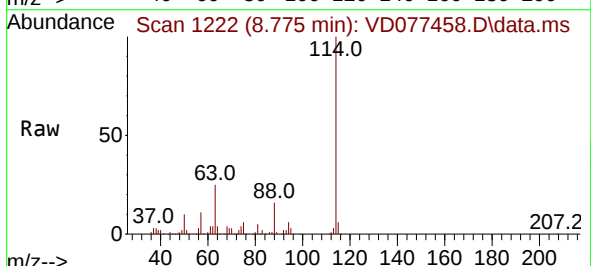
Tgt Ion:114 Resp: 450079

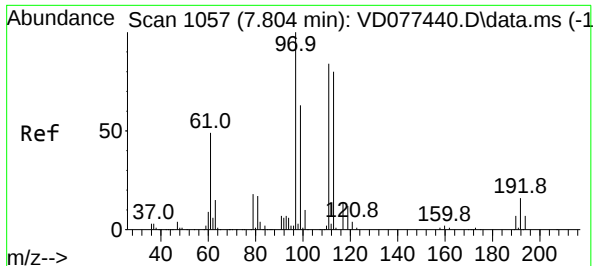
Ion Ratio Lower Upper

114 100

63 24.8 0.0 33.4

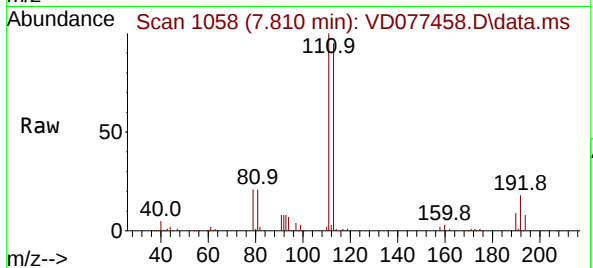
88 15.7 0.0 26.2





#35
Dibromofluoromethane
Concen: 51.219 ug/l
RT: 7.810 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

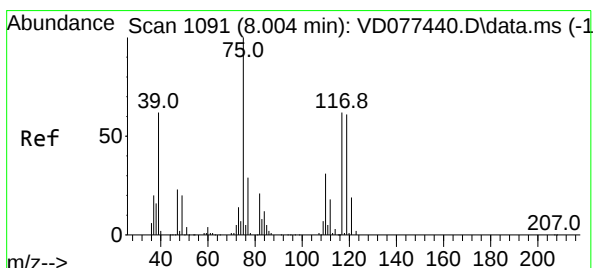
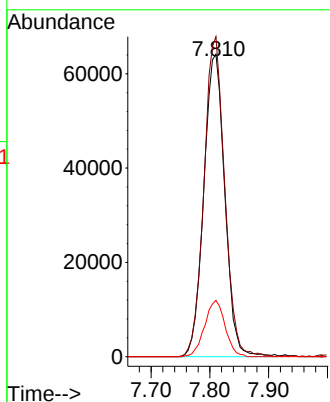
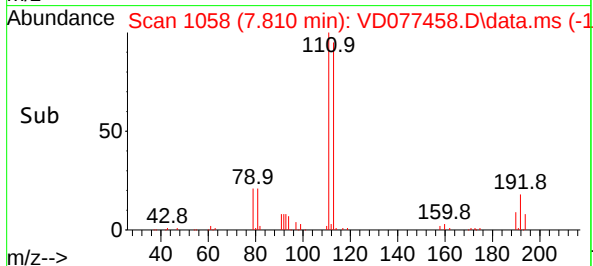
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion:113 Resp: 159330
Ion Ratio Lower Upper
113 100
111 104.3 84.7 127.1
192 18.1 16.8 25.2

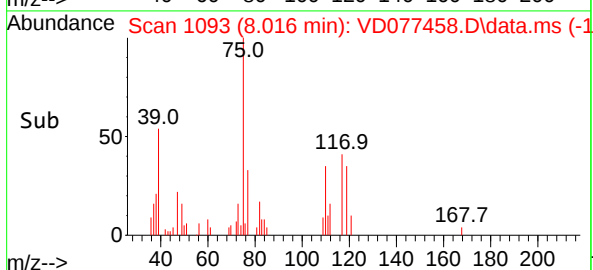
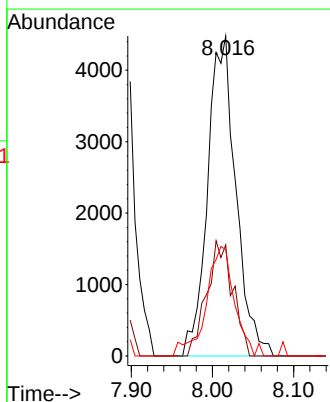
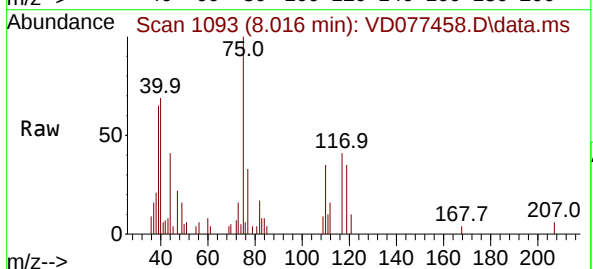
Manual Integrations
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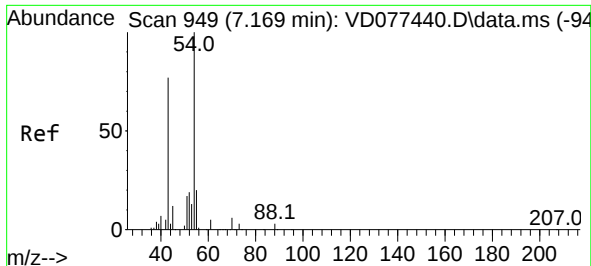
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#36
1,1-Dichloropropene
Concen: 2.349 ug/l
RT: 8.016 min Scan# 1093
Delta R.T. 0.012 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

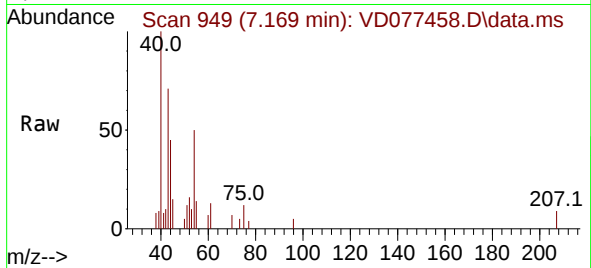
Tgt Ion: 75 Resp: 10834
Ion Ratio Lower Upper
75 100
110 33.4 19.9 59.6
77 34.5 24.7 37.1





#37
Ethyl Acetate
Concen: 2.780 ug/l
RT: 7.169 min Scan# 949
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

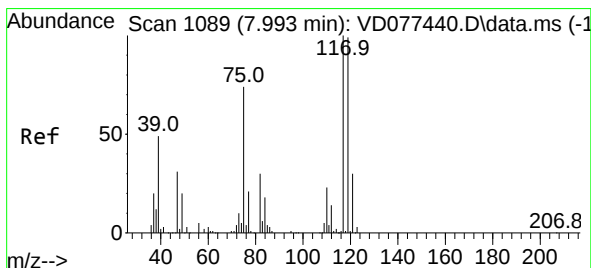
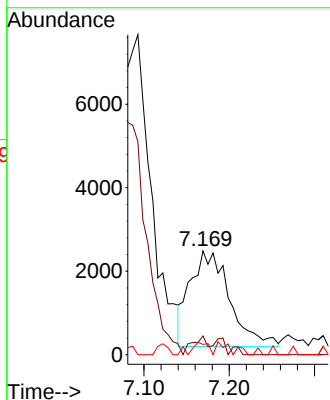
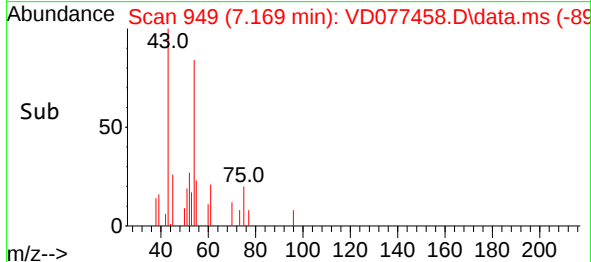
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 43 Resp: 7358
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3
70 5.5 10.0 15.0

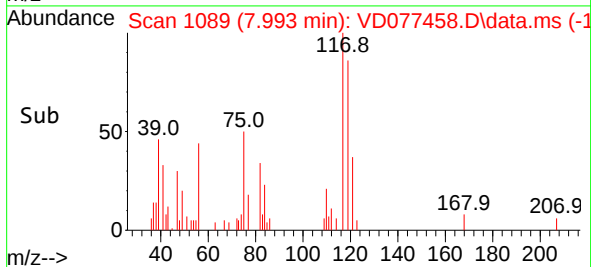
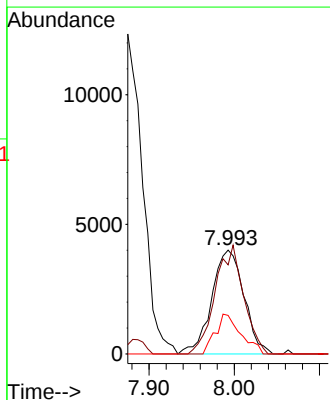
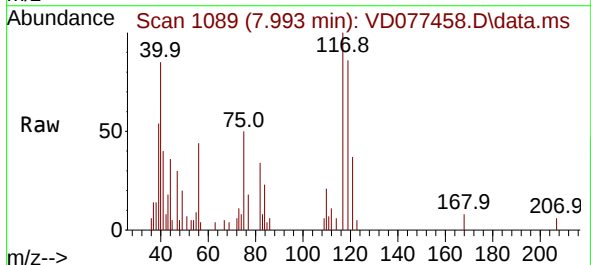
Manual Integrations
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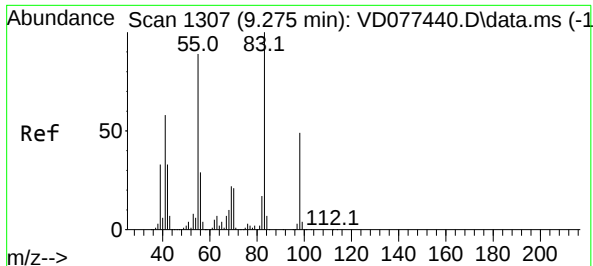
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#38
Carbon Tetrachloride
Concen: 2.433 ug/l
RT: 7.993 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion:117 Resp: 10576
Ion Ratio Lower Upper
117 100
119 85.8 78.0 117.0
121 37.1 24.2 36.2





#39

Methylcyclohexane

Concen: 2.022 ug/l

RT: 9.269 min Scan# 11306

Delta R.T. -0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

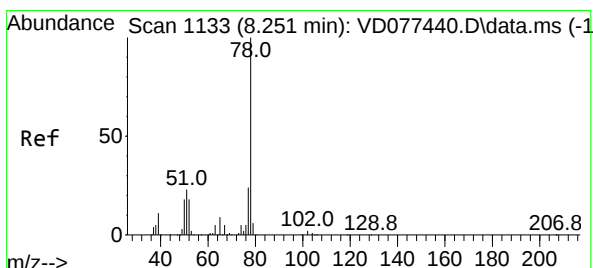
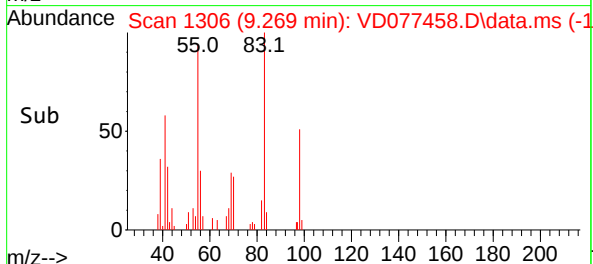
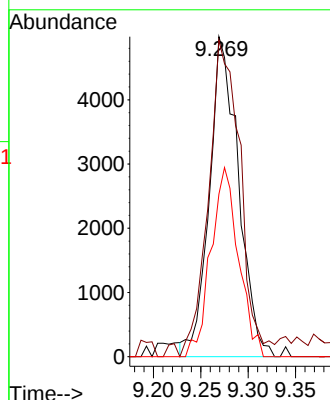
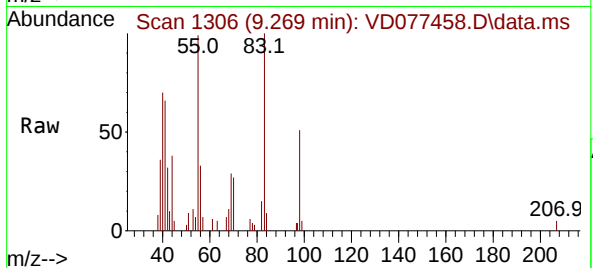
Tgt Ion: 83	Resp: 1064
Ion Ratio	Lower Upper
83	100
55	98.9 49.4 74.0
98	50.8 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#40

Benzene

Concen: 2.395 ug/l

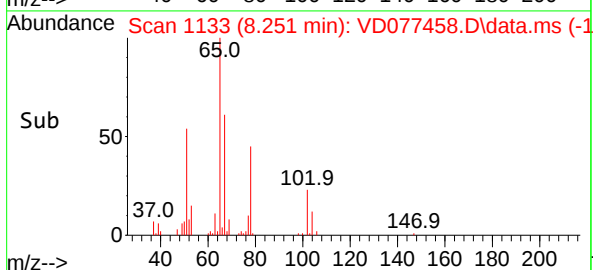
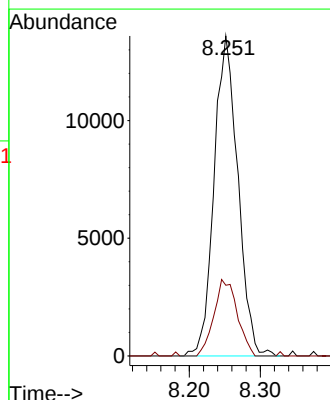
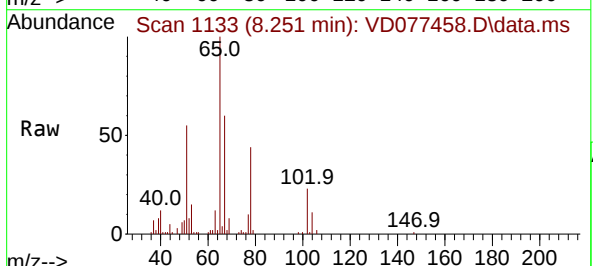
RT: 8.251 min Scan# 1133

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

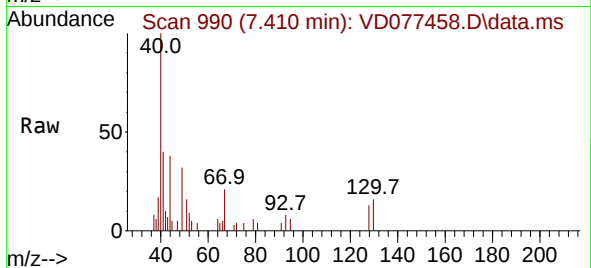
Tgt Ion: 78	Resp: 31500
Ion Ratio	Lower Upper
78	100
77	22.1 19.4 29.0





#41
Methacrylonitrile
Concen: 2.175 ug/l
RT: 7.410 min Scan# 989
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

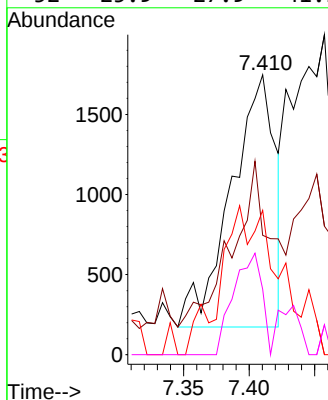
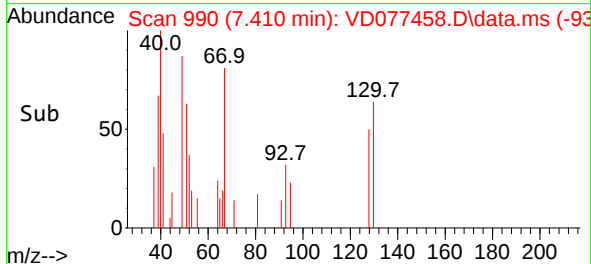
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 41 Resp: 368
Ion Ratio Lower Upper
41 100
39 59.0 34.0 51.0
67 80.0 77.0 115.4
52 25.9 27.9 41.9#

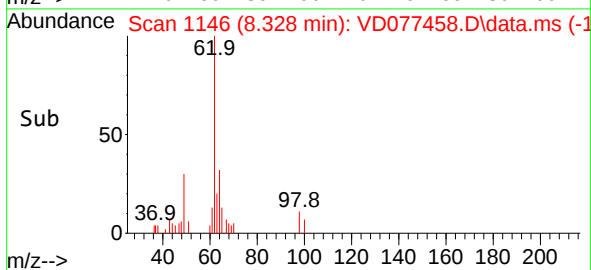
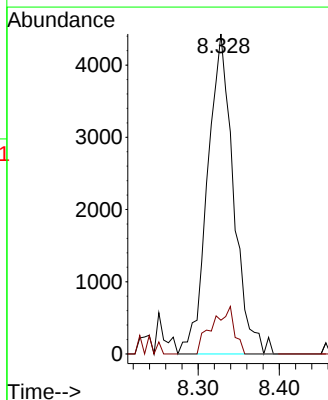
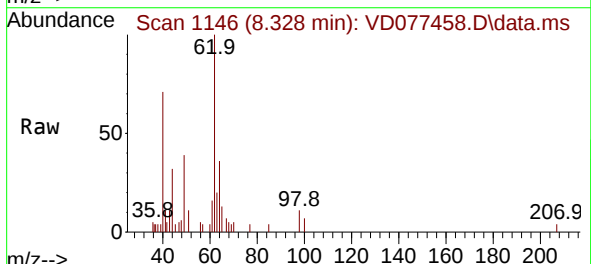
Manual Integrations
APPROVED

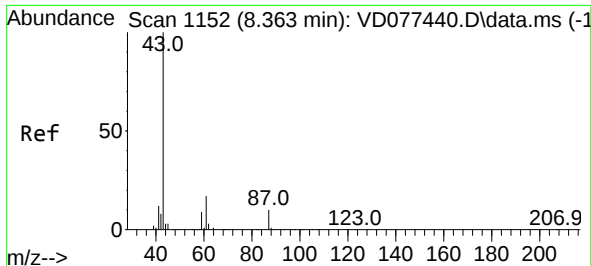
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#42
1,2-Dichloroethane
Concen: 2.366 ug/l
RT: 8.328 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

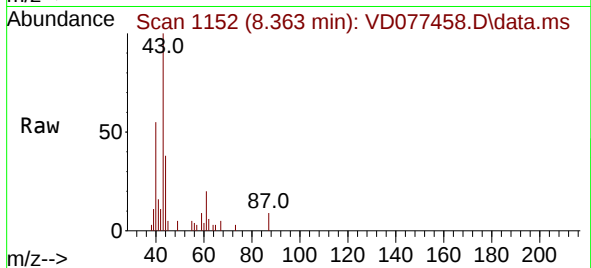
Tgt Ion: 62 Resp: 9854
Ion Ratio Lower Upper
62 100
98 12.7 0.0 25.4





#43
Isopropyl Acetate
Concen: 2.135 ug/l
RT: 8.363 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

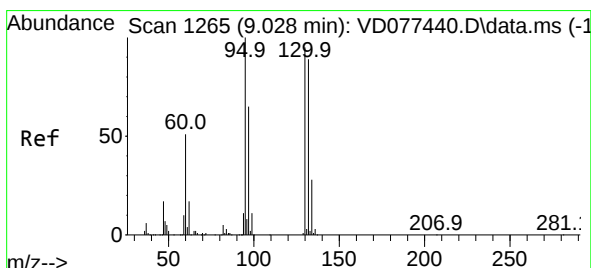
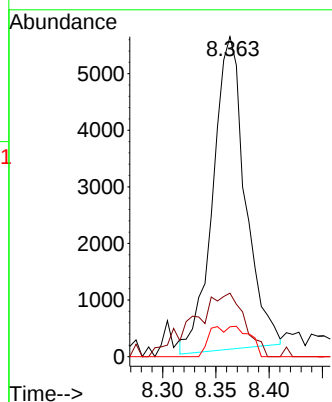
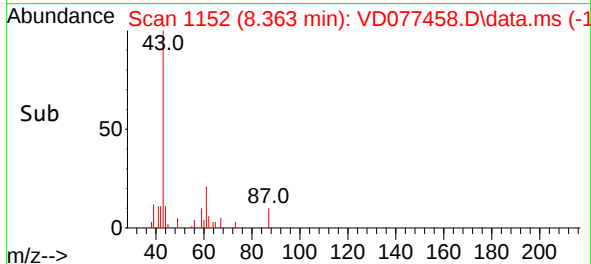
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



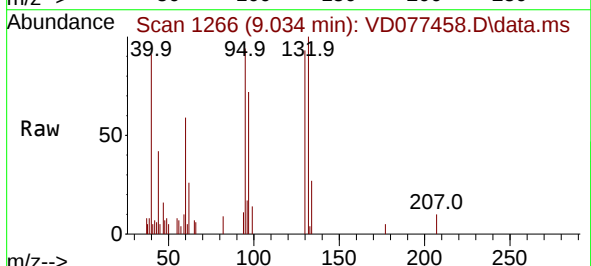
Tgt Ion: 43 Resp: 1166
Ion Ratio Lower Upper
43 100
61 32.8 31.4 47.0
87 5.0 14.9 22.3

Manual Integrations
APPROVED

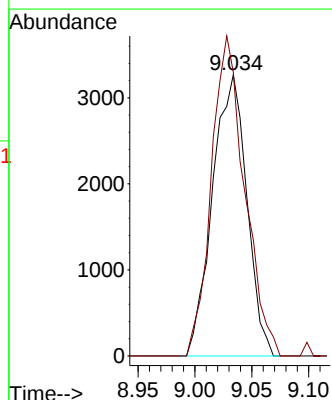
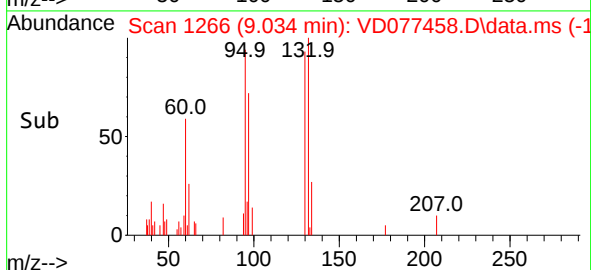
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

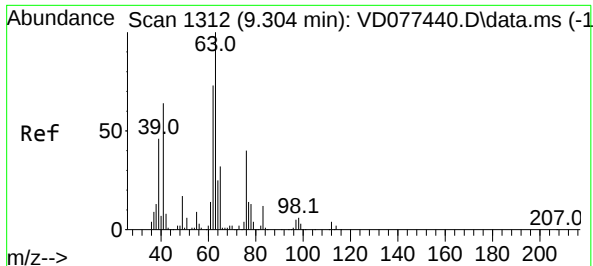


#44
Trichloroethene
Concen: 2.123 ug/l
RT: 9.034 min Scan# 1266
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion:130 Resp: 6840
Ion Ratio Lower Upper
130 100
95 100.8 0.0 179.2





#45

1,2-Dichloropropane

Concen: 2.355 ug/l

RT: 9.304 min Scan# 1312

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

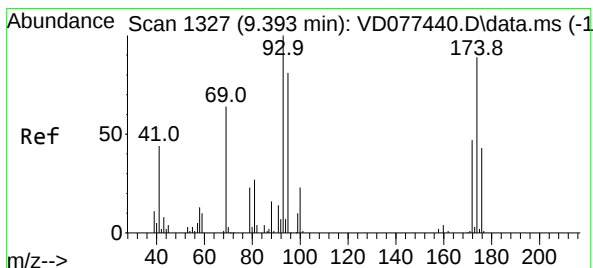
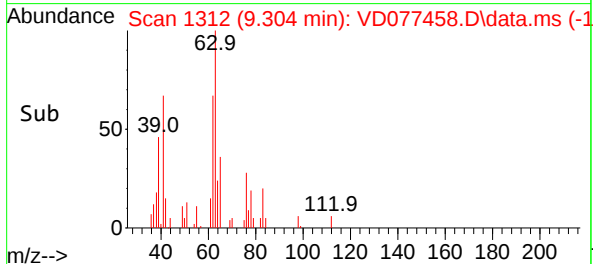
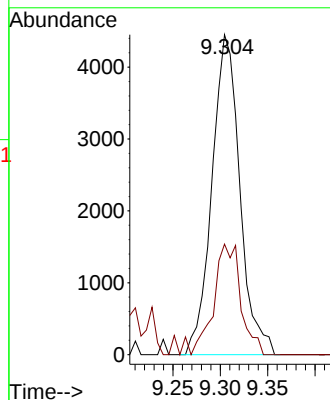
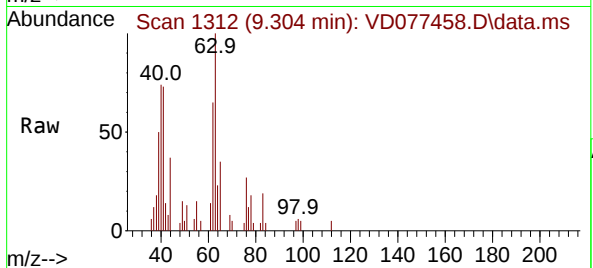
Tgt Ion:	63	Resp:	9119
Ion Ratio	Lower	Upper	
63	100		
65	34.5	24.5	36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#46

Dibromomethane

Concen: 2.299 ug/l

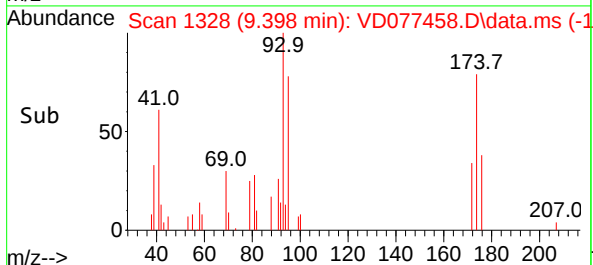
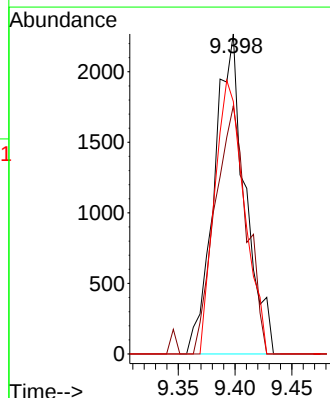
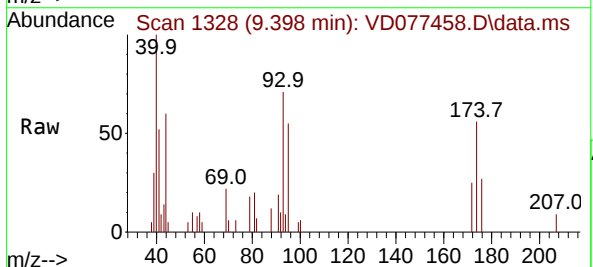
RT: 9.398 min Scan# 1328

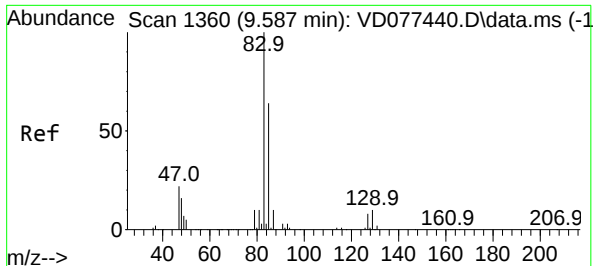
Delta R.T. 0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Tgt Ion:	93	Resp:	4284
Ion Ratio	Lower	Upper	
93	100		
95	79.7	67.7	101.5
174	82.5	85.4	128.2





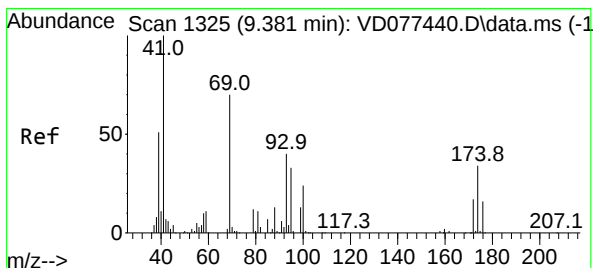
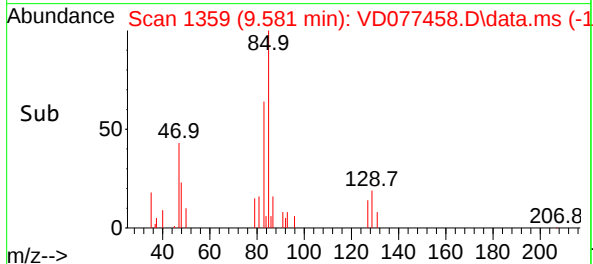
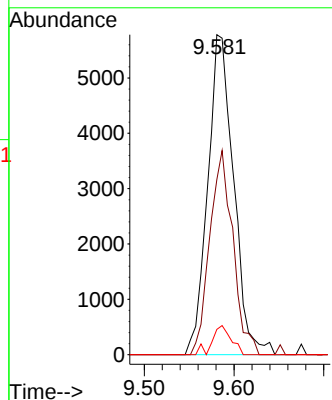
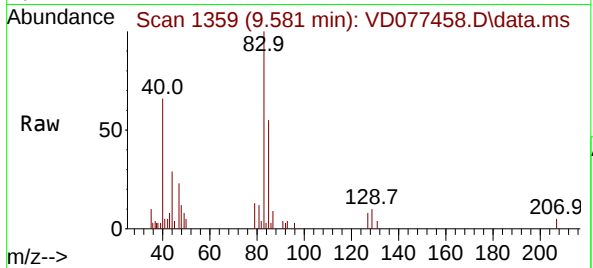
#47
Bromodichloromethane
Concen: 2.356 ug/l
RT: 9.581 min Scan# 1359
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 83 Resp: 11600
Ion Ratio Lower Upper
83 100
85 54.7 50.2 75.4
127 7.9 6.3 9.5

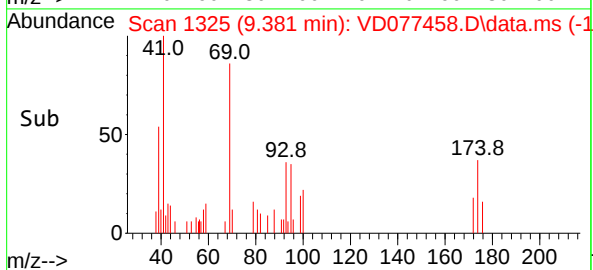
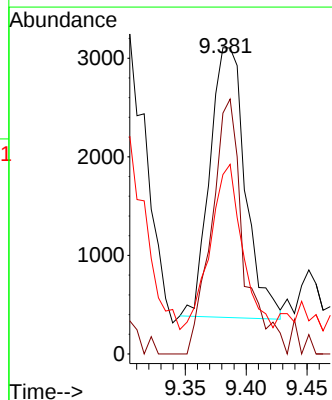
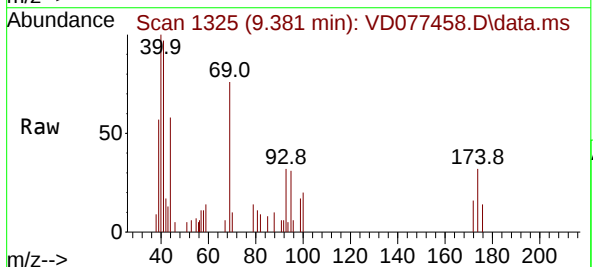
Manual Integrations
APPROVED

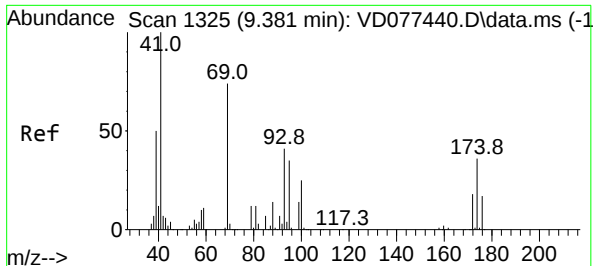
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#48
Methyl methacrylate
Concen: 2.129 ug/l
RT: 9.381 min Scan# 1325
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

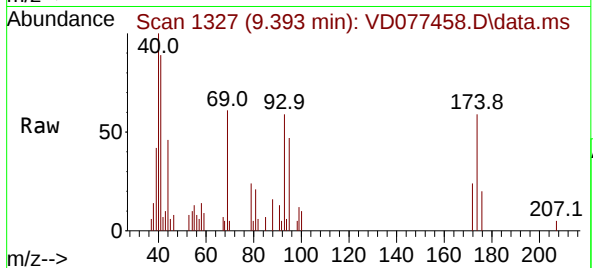
Tgt Ion: 41 Resp: 5550
Ion Ratio Lower Upper
41 100
69 85.2 102.2 153.2#
39 54.9 41.4 62.2





#49
1,4-Dioxane
Concen: 46.298 ug/l
RT: 9.393 min Scan# 1327
Delta R.T. 0.012 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

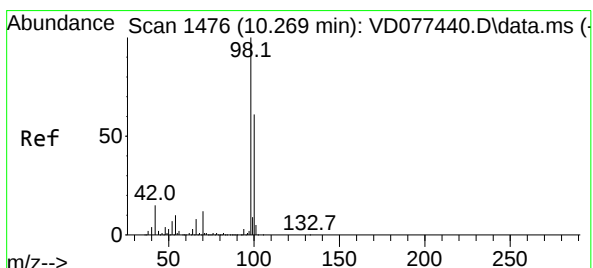
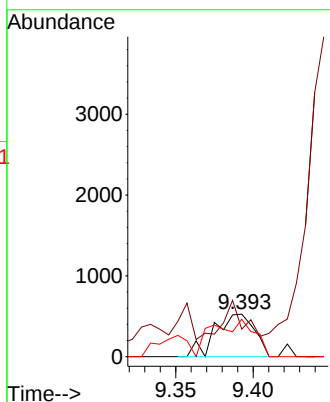
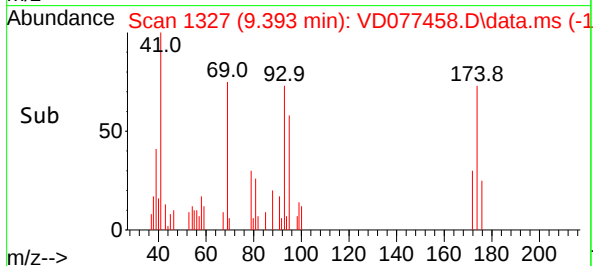
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 35.3 19.0 28.6
58 52.9 43.5 65.3

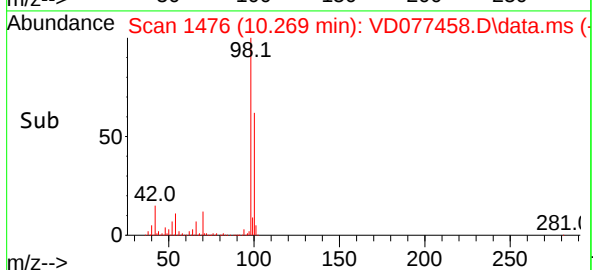
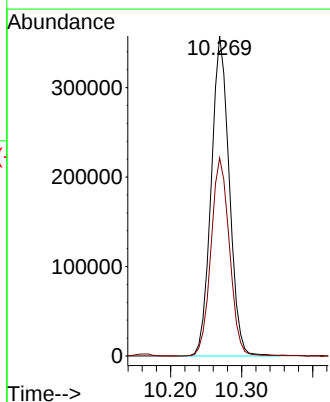
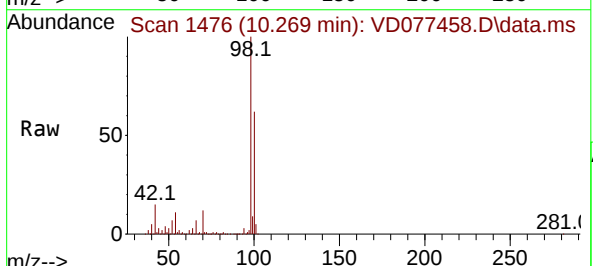
Manual Integrations
APPROVED

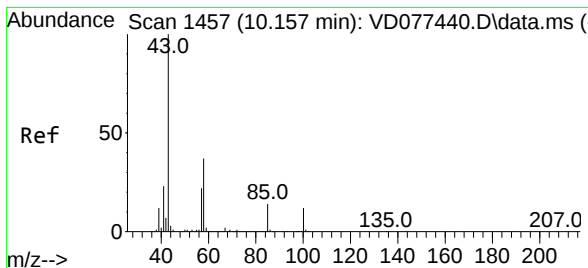
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#50
Toluene-d8
Concen: 52.126 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

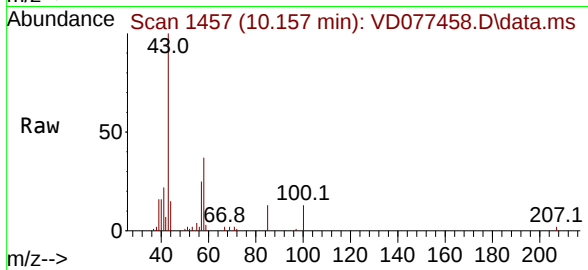
Tgt Ion: 98 Resp: 629834
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5





#51
4-Methyl-2-Pentanone
Concen: 11.116 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

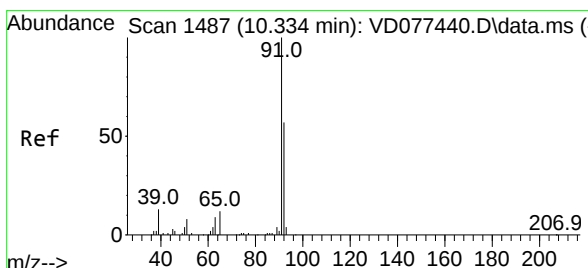
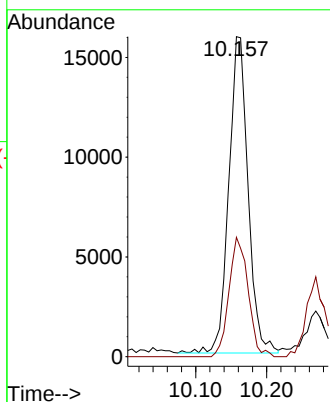
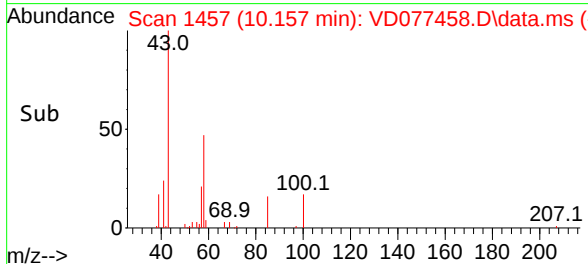
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



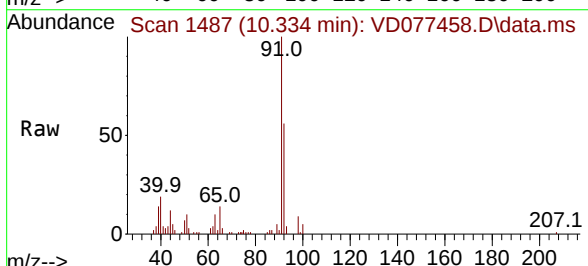
Tgt Ion: 43 Resp: 2988
Ion Ratio Lower Upper
43 100
58 37.5 38.9 58.3

Manual Integrations
APPROVED

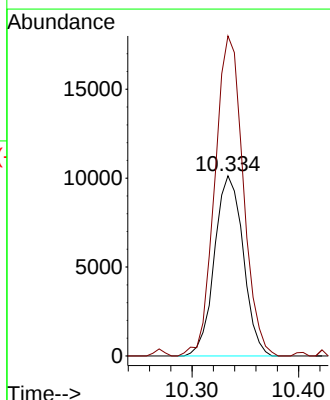
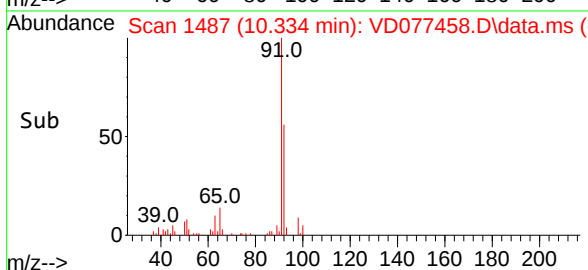
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

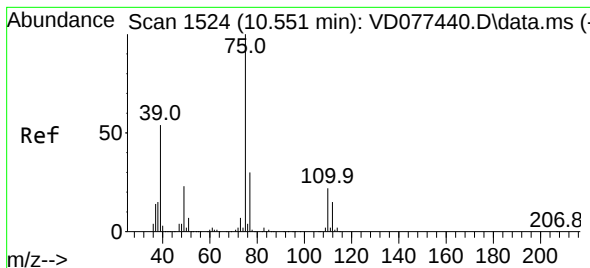


#52
Toluene
Concen: 2.365 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion: 92 Resp: 18962
Ion Ratio Lower Upper
92 100
91 175.5 143.0 214.4





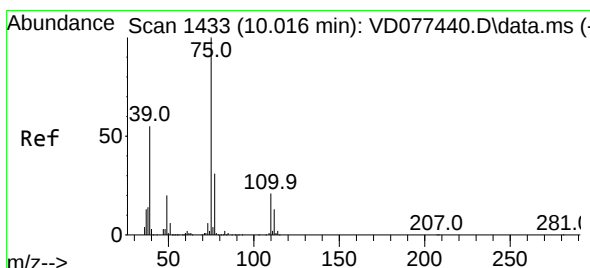
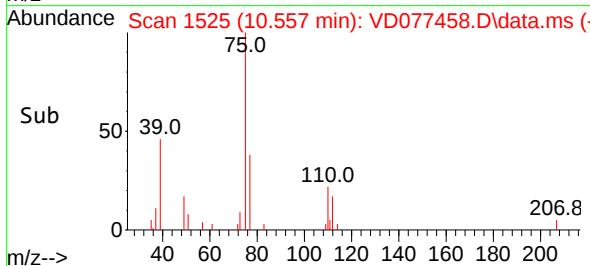
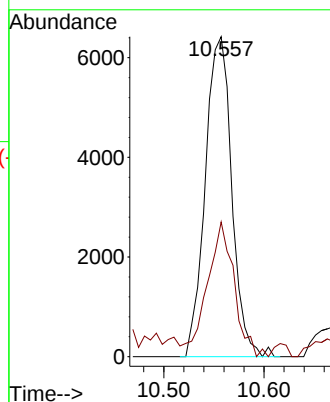
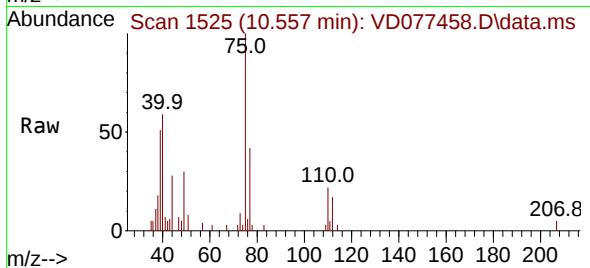
#53
t-1,3-Dichloropropene
Concen: 2.267 ug/l
RT: 10.557 min Scan# 1182
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 75 Resp: 1182
Ion Ratio Lower Upper
75 100
77 38.8 25.3 37.9

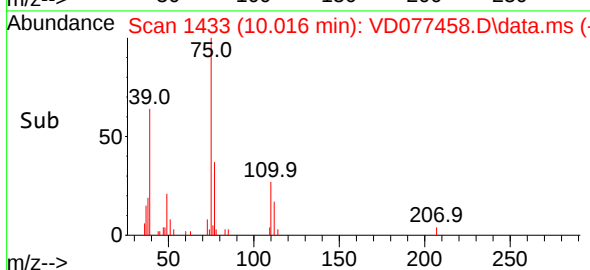
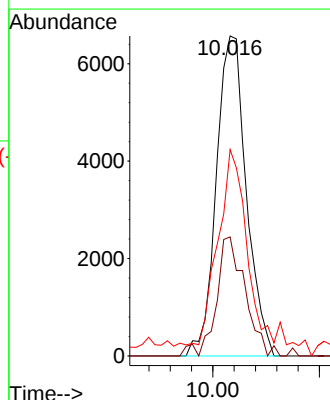
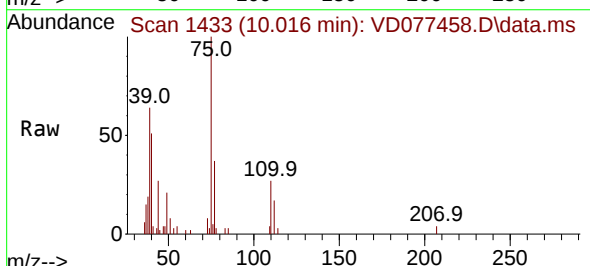
Manual Integrations
APPROVED

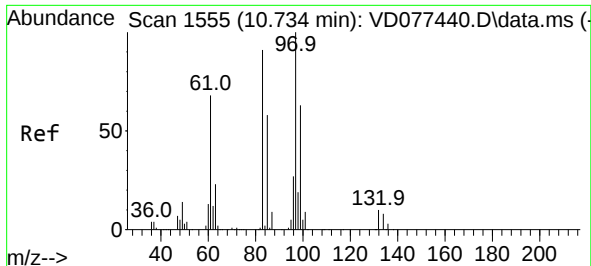
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#54
cis-1,3-Dichloropropene
Concen: 2.145 ug/l
RT: 10.016 min Scan# 1433
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

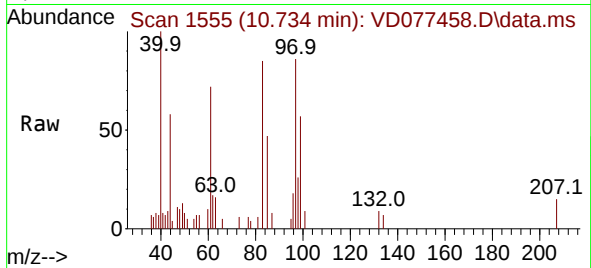
Tgt Ion: 75 Resp: 12873
Ion Ratio Lower Upper
75 100
77 37.2 25.5 38.3
39 60.5 22.1 33.1





#55
1,1,2-Trichloroethane
Concen: 2.393 ug/l
RT: 10.734 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

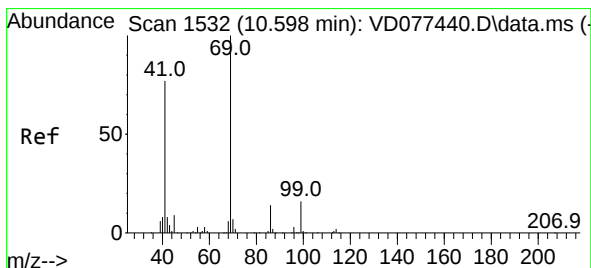
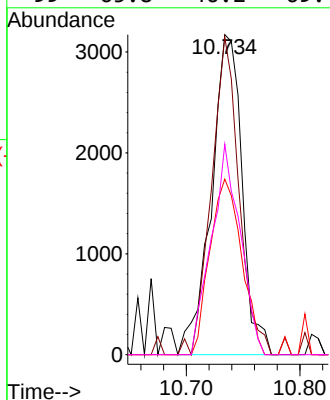
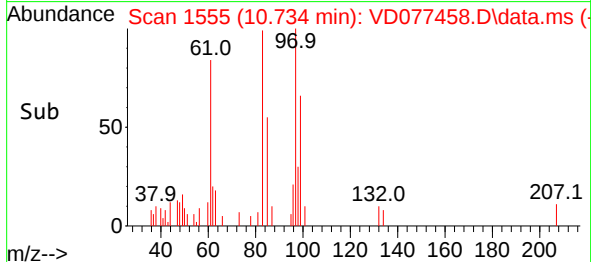
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion	Ratio	Lower	Upper
97	100		
83	99.2	65.8	98.6
85	54.9	45.7	68.5
99	65.8	46.2	69.4

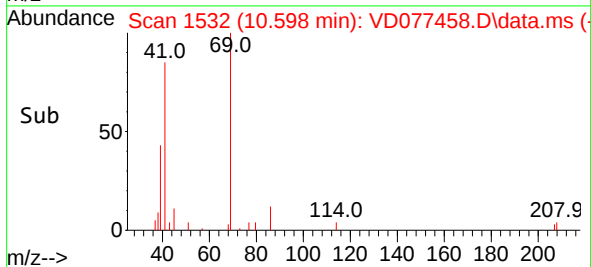
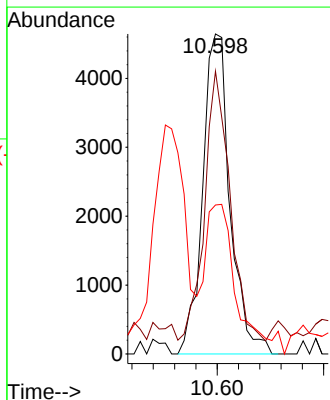
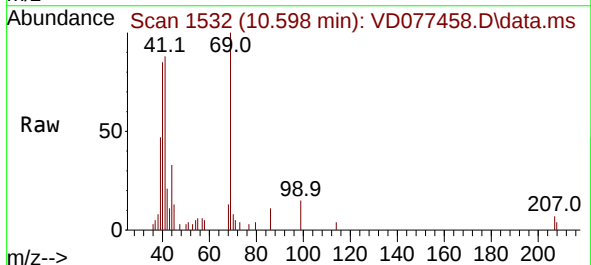
Manual Integrations
APPROVED

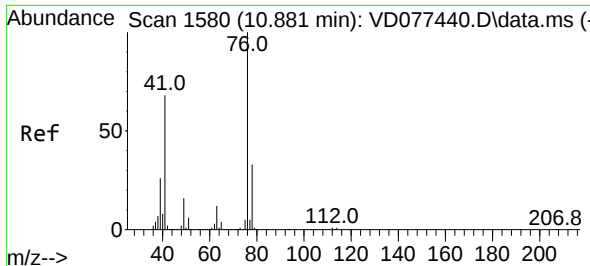
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#56
Ethyl methacrylate
Concen: 2.246 ug/l
RT: 10.598 min Scan# 1532
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.8	39.1	58.7
39	53.4	20.0	30.0





#57

1,3-Dichloropropane

Concen: 2.217 ug/l

RT: 10.881 min Scan# 1580

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 76 Resp: 1030

Ion Ratio Lower Upper

76 100

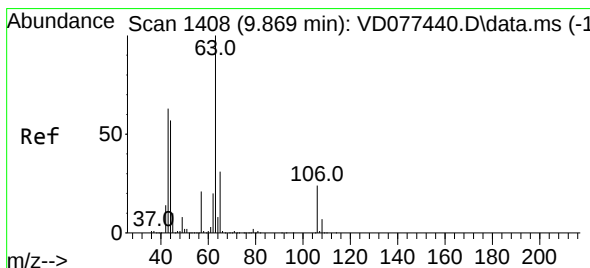
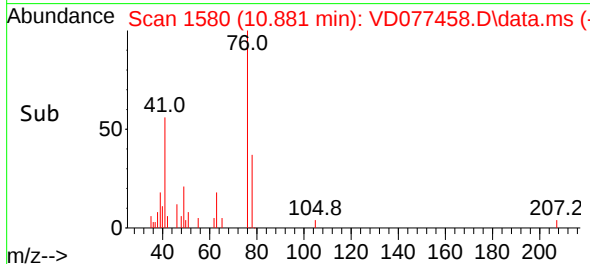
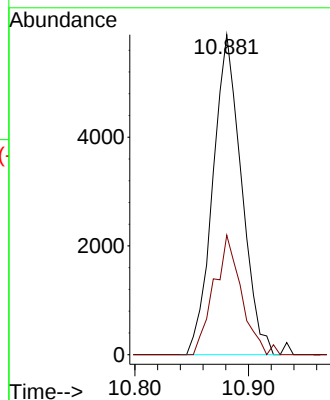
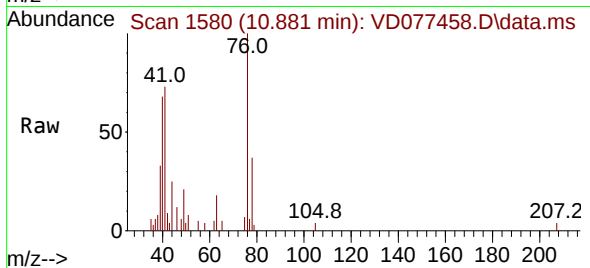
78 35.9 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#58

2-Chloroethyl Vinyl ether

Concen: 9.253 ug/l

RT: 9.869 min Scan# 1408

Delta R.T. 0.000 min

Lab File: VD077458.D

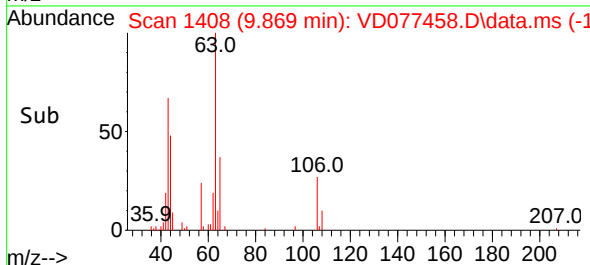
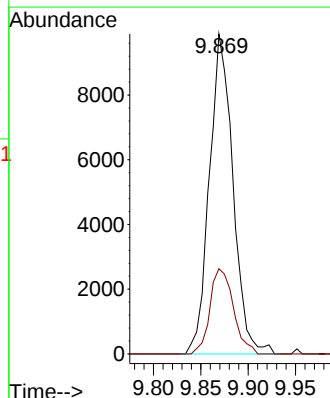
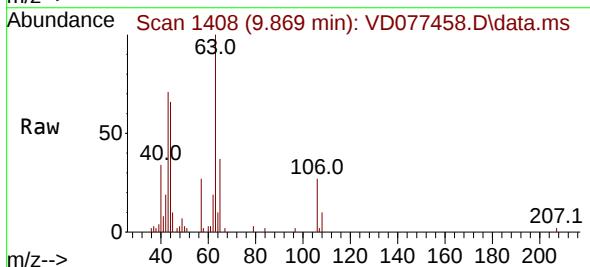
Acq: 31 Oct 2023 13:58

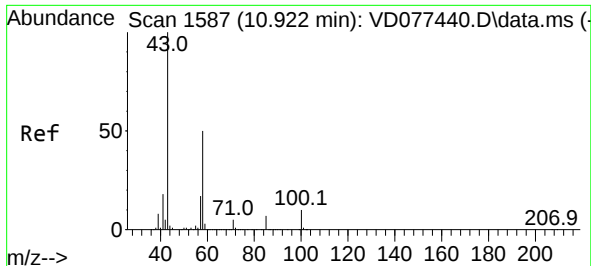
Tgt Ion: 63 Resp: 17122

Ion Ratio Lower Upper

63 100

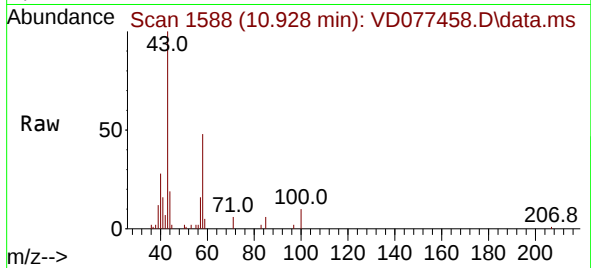
106 26.5 25.3 37.9





#59
2-Hexanone
Concen: 11.312 ug/l
RT: 10.928 min Scan# 1588
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

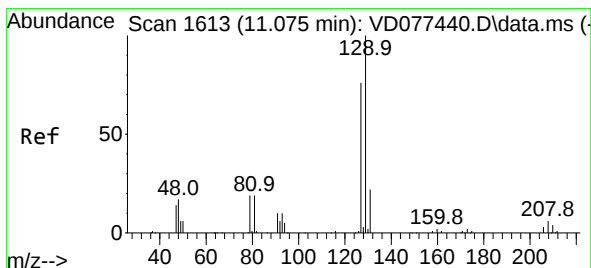
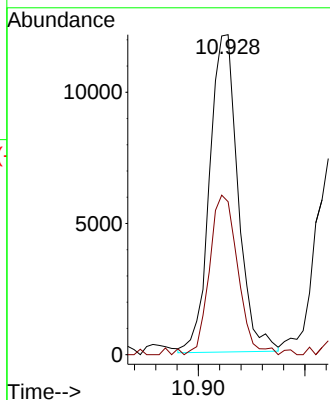
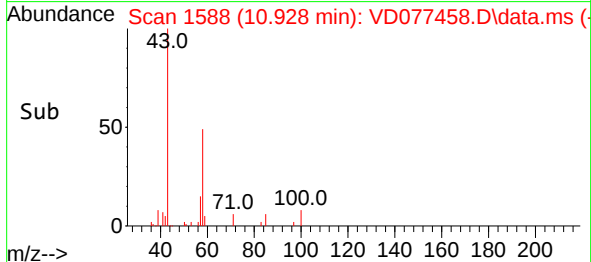
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion: 43 Resp: 2240
Ion Ratio Lower Upper
43 100
58 49.9 34.1 102.2

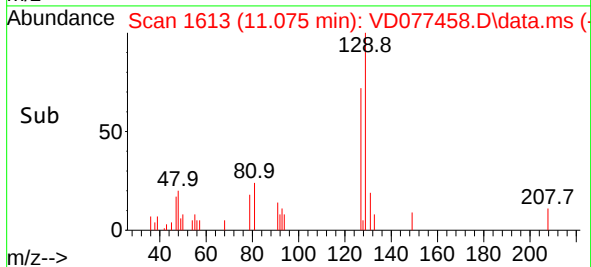
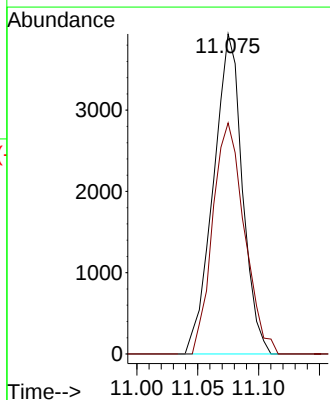
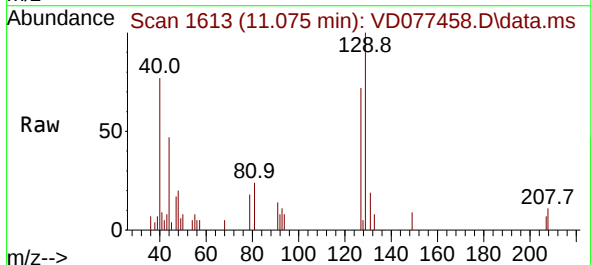
Manual Integrations
APPROVED

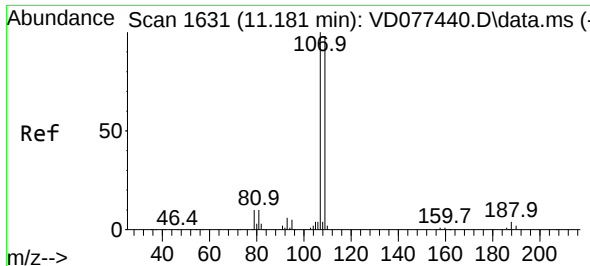
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#60
Dibromochloromethane
Concen: 2.184 ug/l
RT: 11.075 min Scan# 1613
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

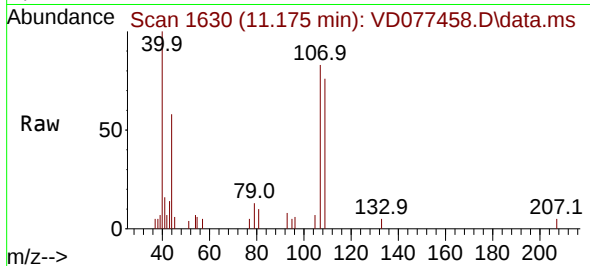
Tgt Ion:129 Resp: 6530
Ion Ratio Lower Upper
129 100
127 79.0 37.1 111.5





#61
1,2-Dibromoethane
Concen: 2.236 ug/l
RT: 11.175 min Scan# 1631
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

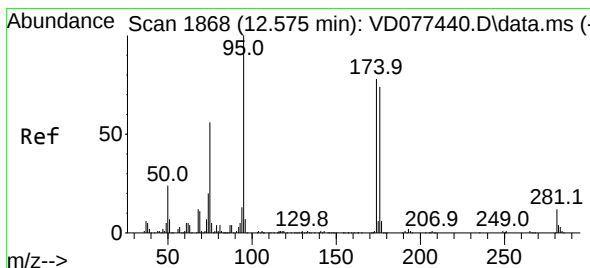
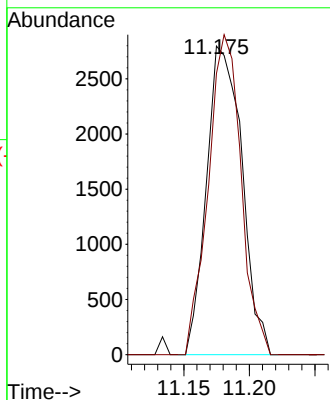
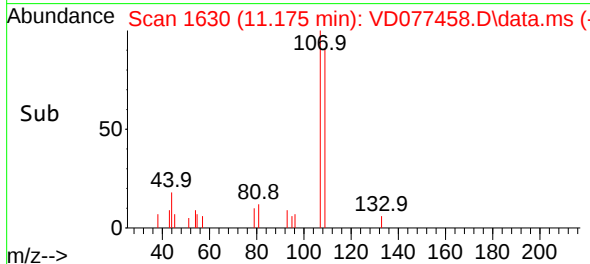
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



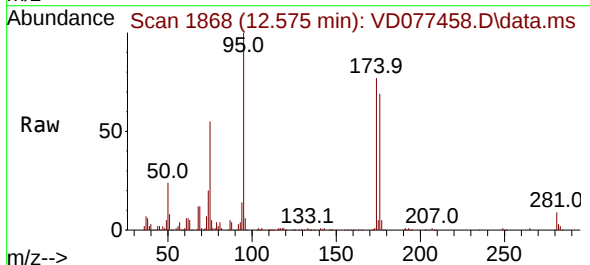
Tgt Ion:107 Resp: 526
Ion Ratio Lower Upper
107 100
109 95.8 75.6 113.4

Manual Integrations
APPROVED

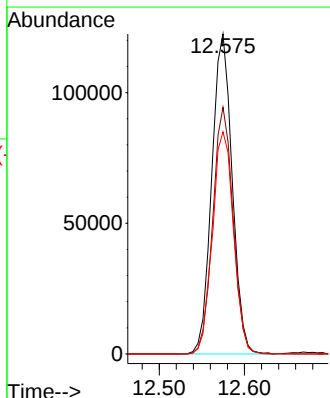
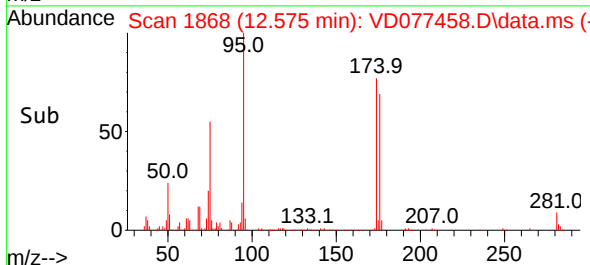
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

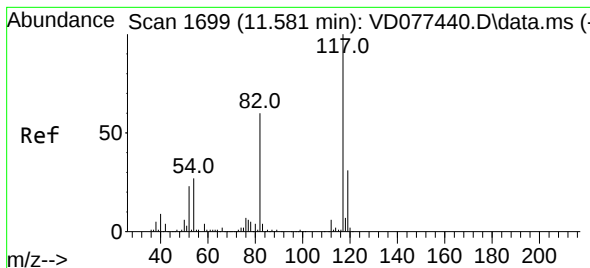


#62
4-Bromofluorobenzene
Concen: 49.903 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion: 95 Resp: 203087
Ion Ratio Lower Upper
95 100
174 76.8 0.0 201.8
176 71.9 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077458.D

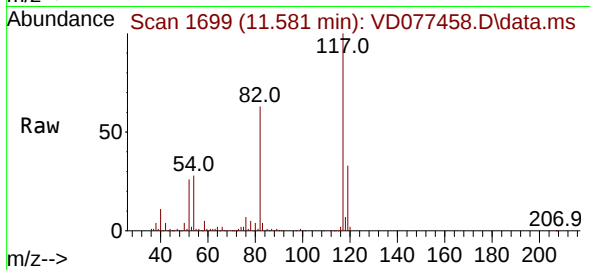
Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion:117 Resp: 396030

Ion Ratio Lower Upper

117 100

82 63.3 38.3 57.5

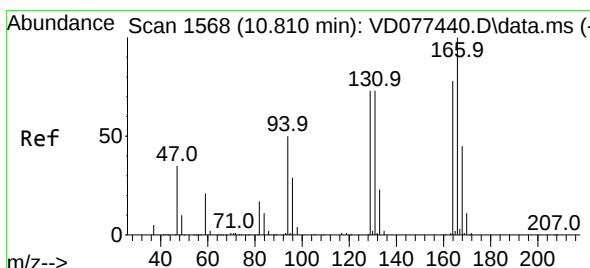
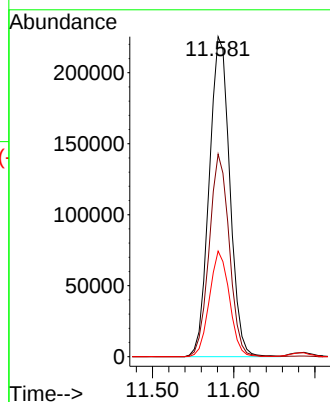
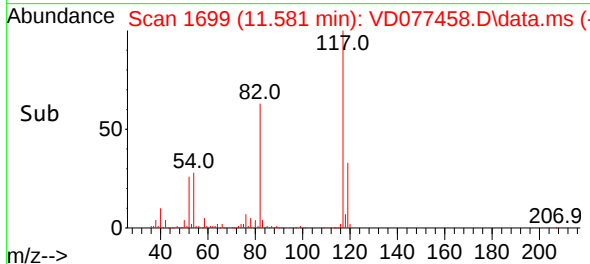
119 33.0 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#64

Tetrachloroethene

Concen: 2.160 ug/l

RT: 10.804 min Scan# 1567

Delta R.T. -0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Tgt Ion:164 Resp: 5445

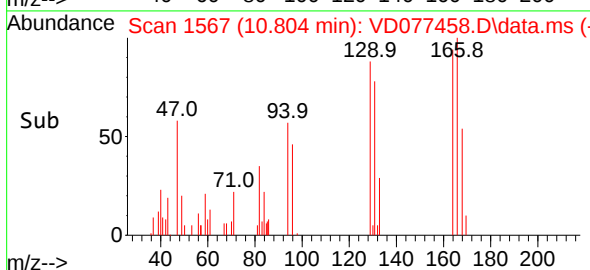
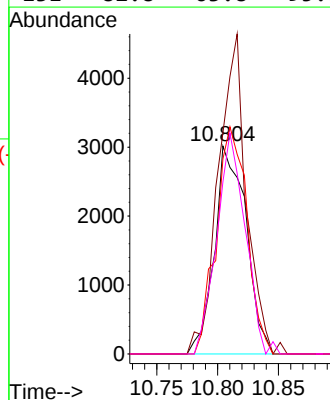
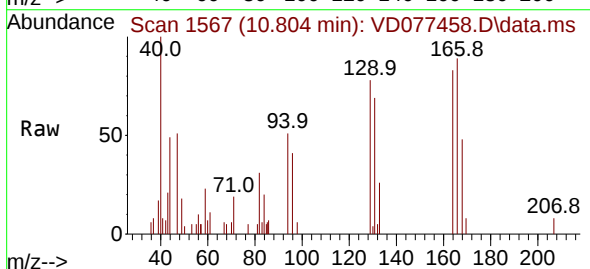
Ion Ratio Lower Upper

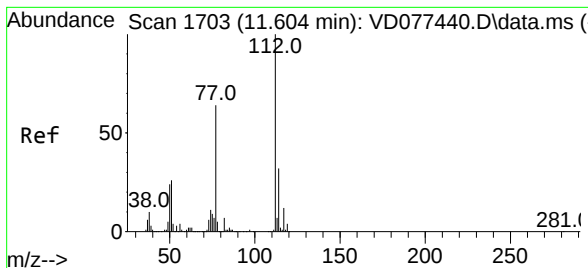
164 100

166 106.4 99.2 148.8

129 93.9 68.4 102.6

131 82.8 63.8 95.8





#65

Chlorobenzene

Concen: 2.257 ug/l

RT: 11.610 min Scan# 1704

Delta R.T. 0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion:112 Resp: 18730

Ion Ratio Lower Upper

112 100

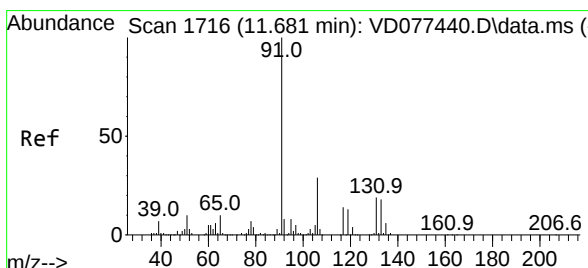
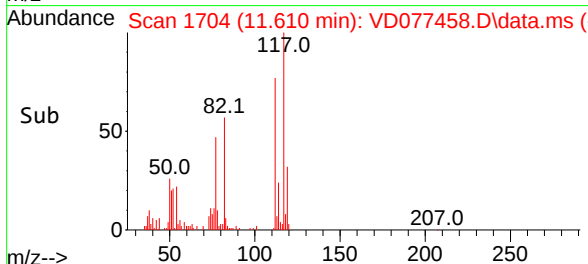
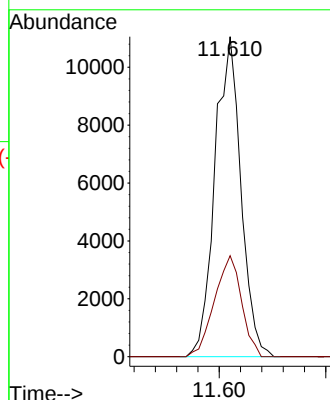
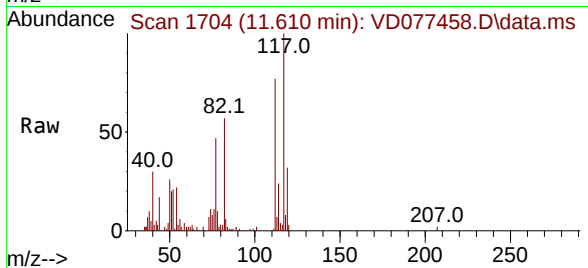
114 31.6 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#66

1,1,1,2-Tetrachloroethane

Concen: 2.210 ug/l

RT: 11.681 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

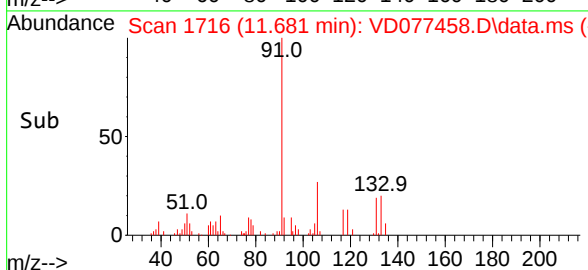
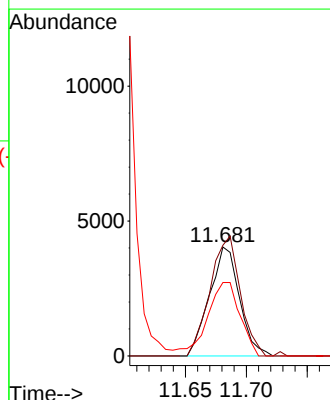
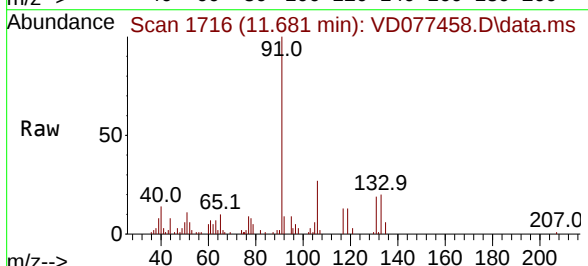
Tgt Ion:131 Resp: 6929

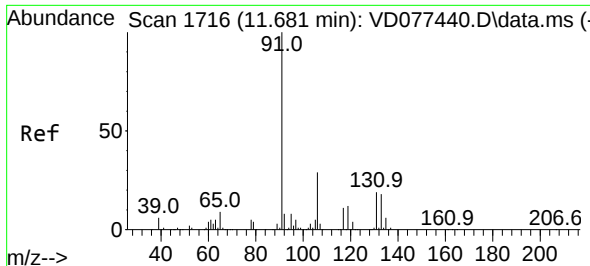
Ion Ratio Lower Upper

131 100

133 110.5 48.5 145.5

119 73.4 35.6 106.9





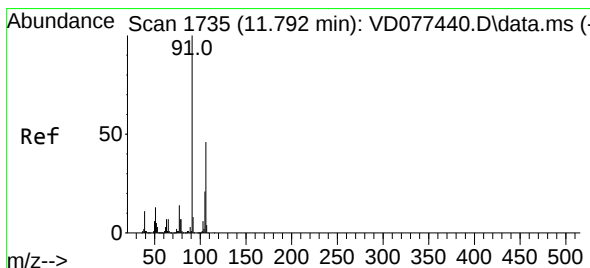
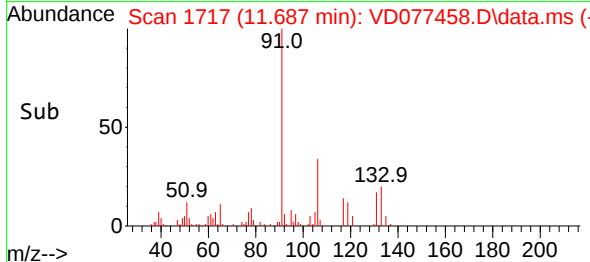
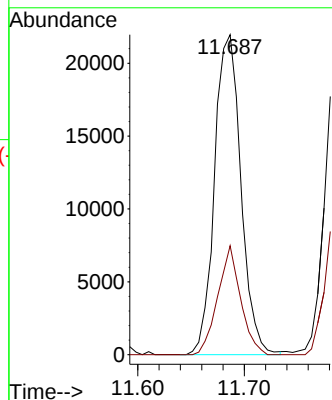
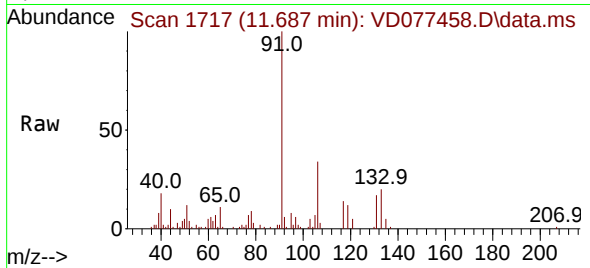
#67
Ethyl Benzene
Concen: 2.366 ug/l
RT: 11.687 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 91 Resp: 3777
Ion Ratio Lower Upper
91 100
106 34.1 26.5 39.7

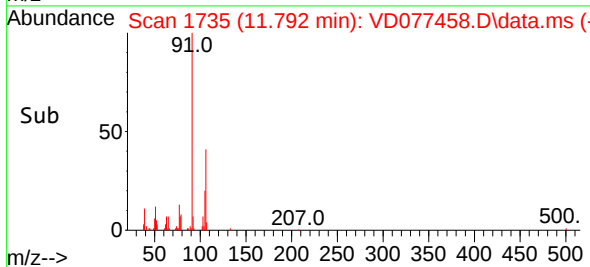
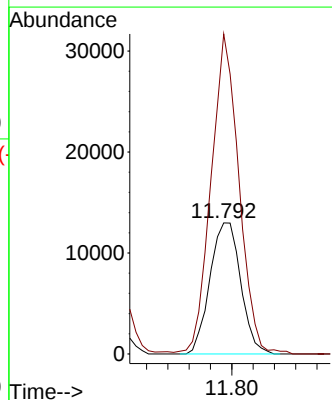
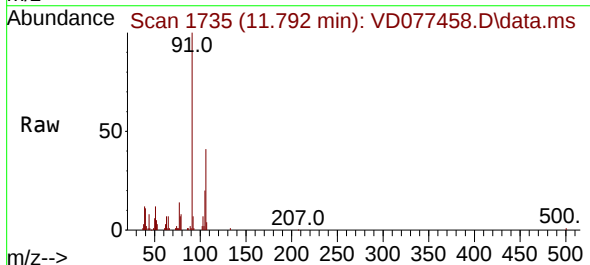
Manual Integrations
APPROVED

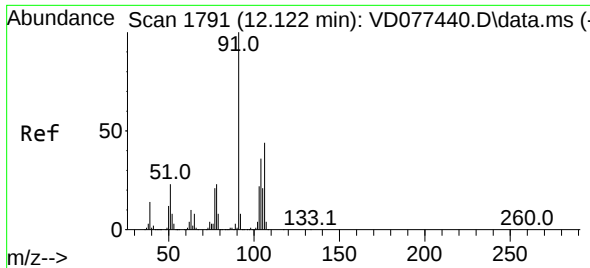
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#68
m/p-Xylenes
Concen: 4.514 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion:106 Resp: 26020
Ion Ratio Lower Upper
106 100
91 221.1 147.0 220.6#





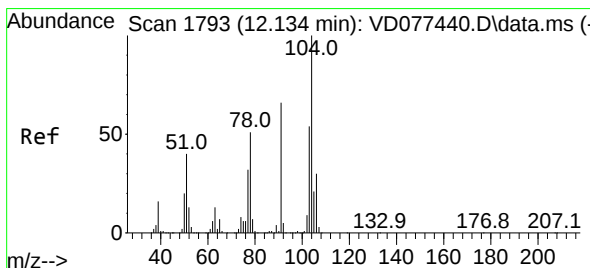
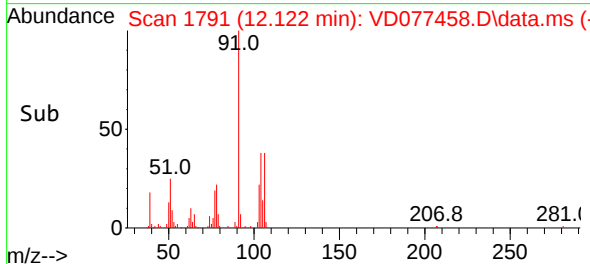
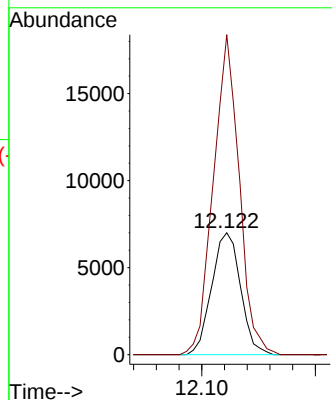
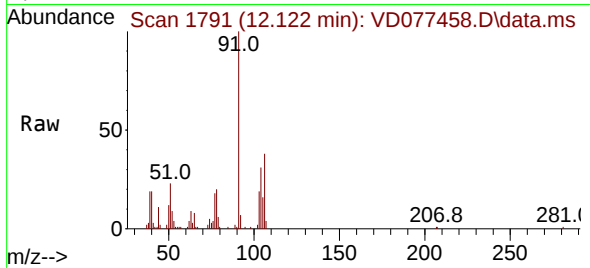
#69
o-Xylene
Concen: 2.236 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion:106 Resp: 12340
Ion Ratio Lower Upper
106 100
91 235.6 97.9 293.6

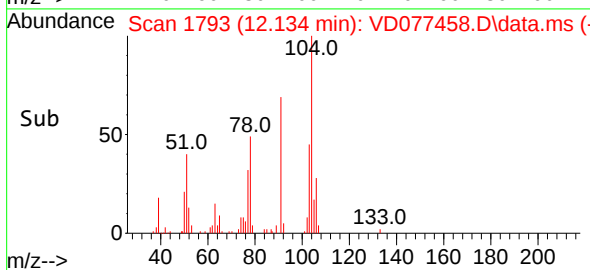
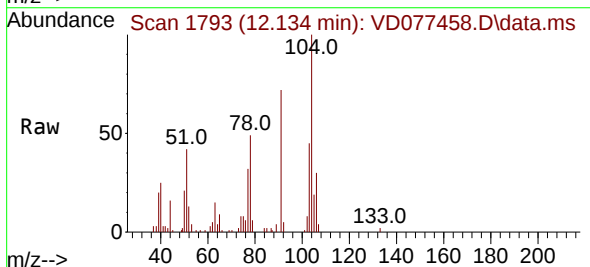
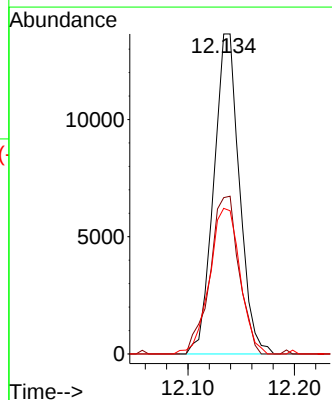
Manual Integrations
APPROVED

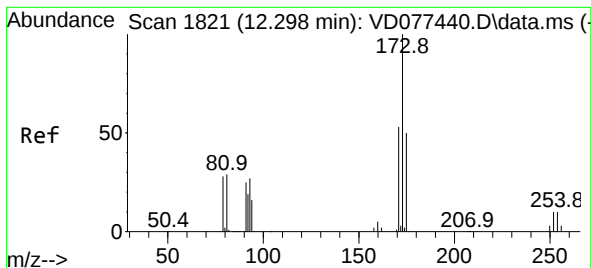
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#70
Styrene
Concen: 2.401 ug/l
RT: 12.134 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion:104 Resp: 22868
Ion Ratio Lower Upper
104 100
78 55.6 33.2 49.8#
103 54.0 43.6 65.4





#71

Bromoform

Concen: 2.107 ug/l

RT: 12.298 min Scan# 1821

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

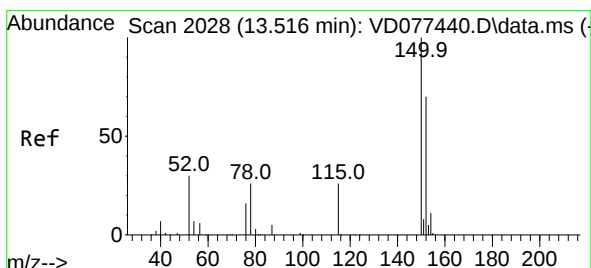
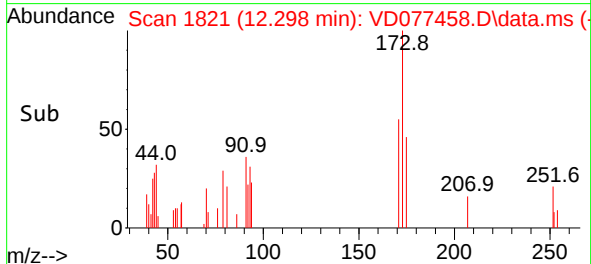
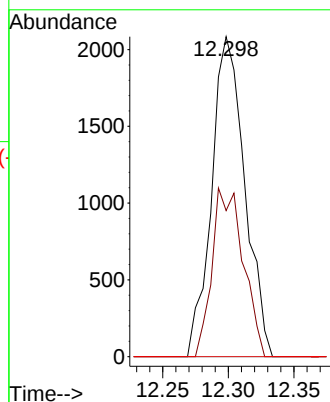
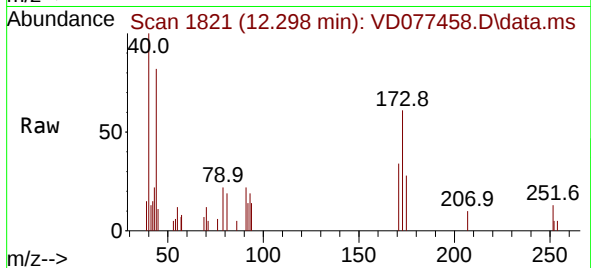
Tgt Ion:	173	Resp:	366
Ion Ratio	Lower	Upper	
173	100		
175	49.2	24.6	73.8
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

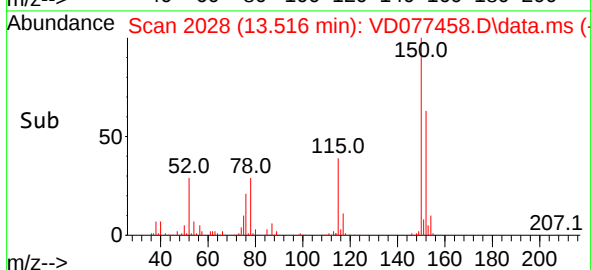
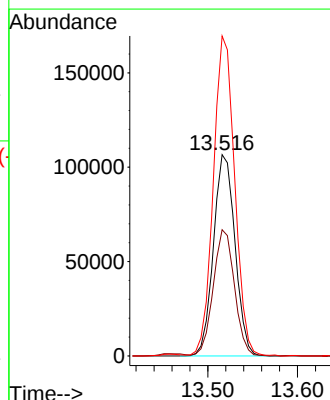
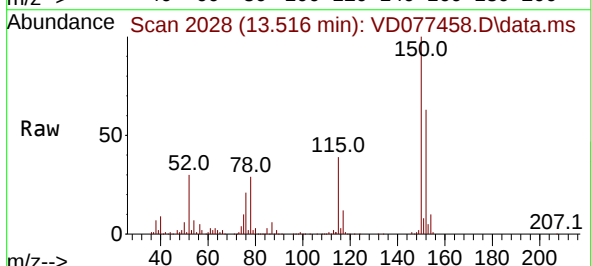
RT: 13.516 min Scan# 2028

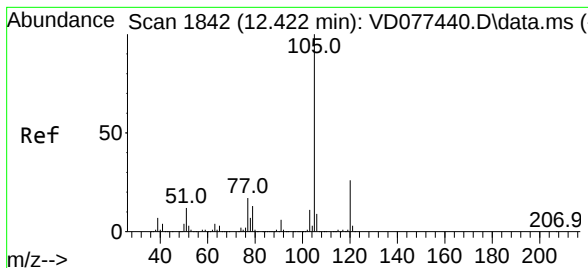
Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Tgt Ion:	152	Resp:	178070
Ion Ratio	Lower	Upper	
152	100		
115	61.7	27.1	81.3
150	157.5	0.0	353.6





#73

Isopropylbenzene

Concen: 2.390 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

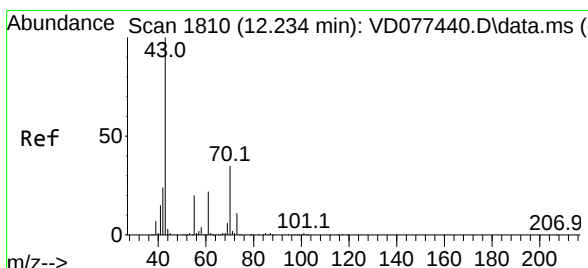
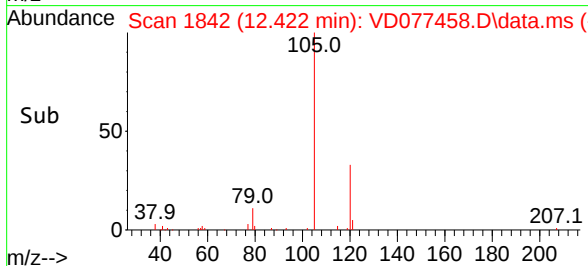
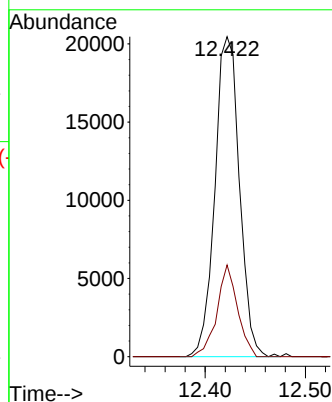
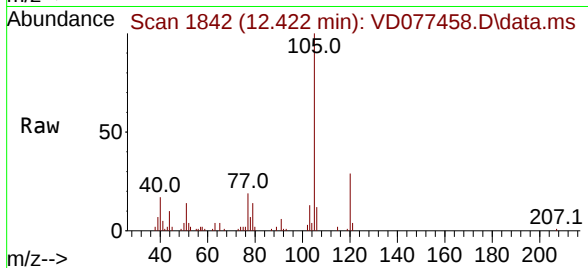
Tgt Ion:105 Resp: 34699
 Ion Ratio Lower Upper
 105 100
 120 24.1 14.3 42.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#74

N-ethyl acetate

Concen: 2.431 ug/l

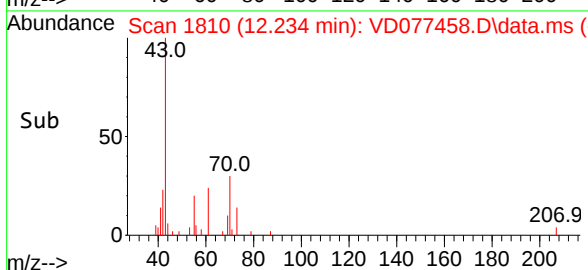
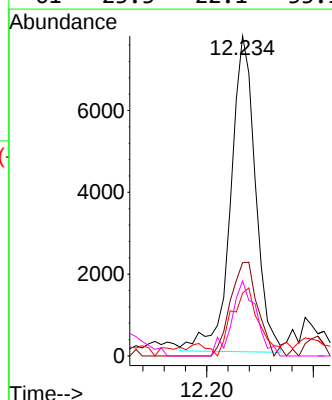
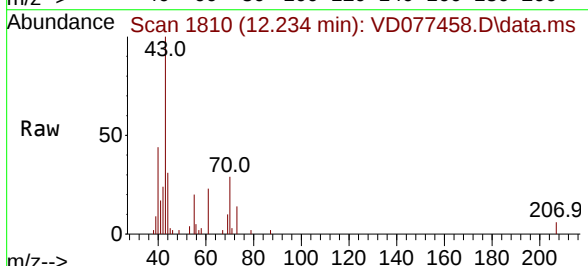
RT: 12.234 min Scan# 1810

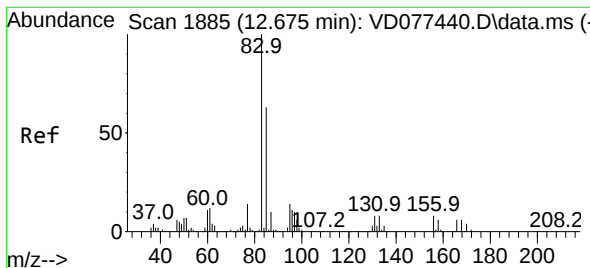
Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

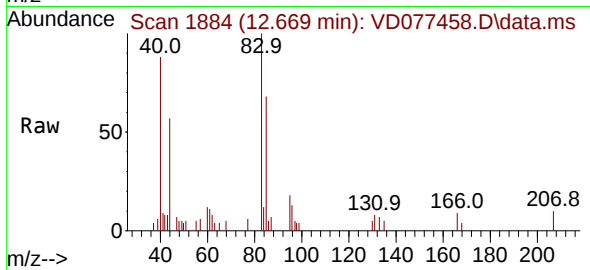
Tgt Ion: 43 Resp: 12500
 Ion Ratio Lower Upper
 43 100
 70 32.7 45.0 67.4#
 55 23.5 23.8 35.6#
 61 23.3 22.1 33.1





#75
1,1,2,2-Tetrachloroethane
Concen: 2.425 ug/l
RT: 12.669 min Scan# 1884
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

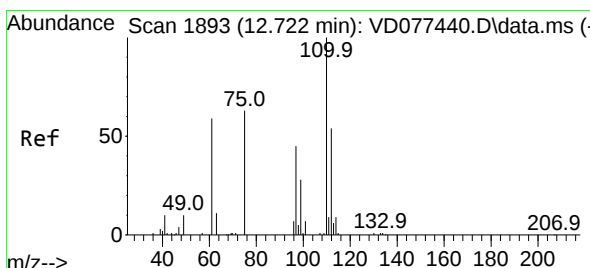
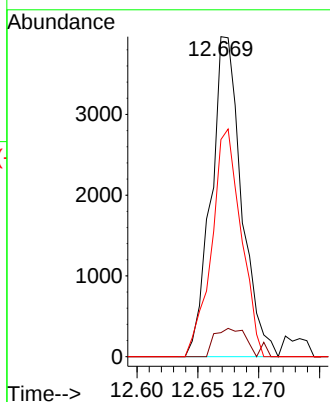
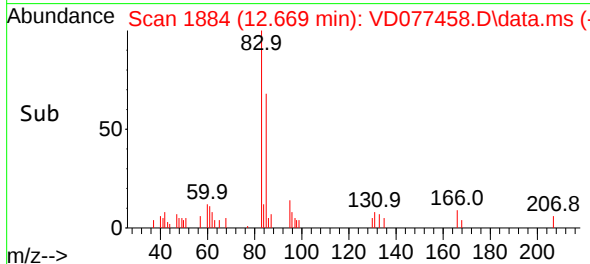
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



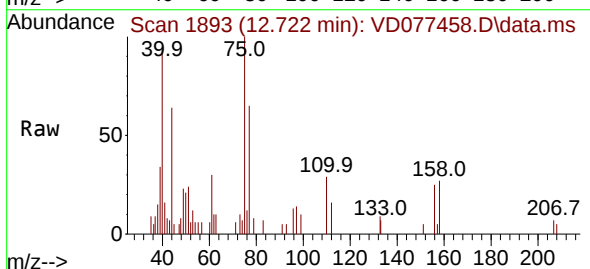
Tgt Ion: 83 Resp: 6902
Ion Ratio Lower Upper
83 100
131 9.8 5.1 15.3
85 68.6 32.6 97.8

Manual Integrations
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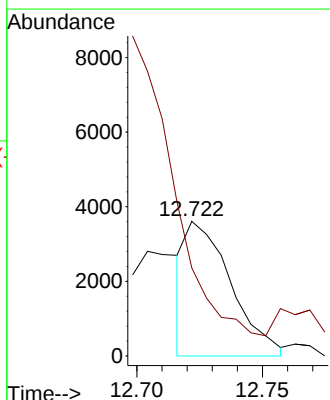
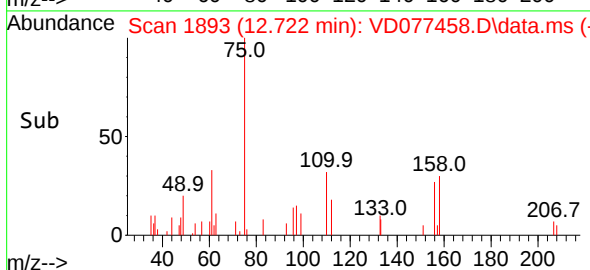
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

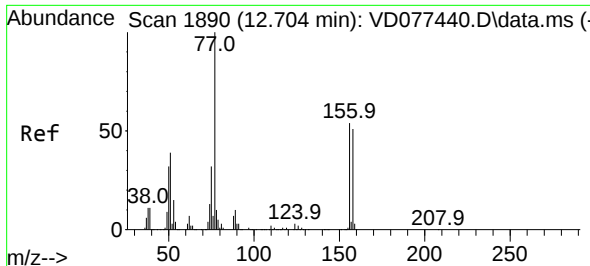


#76
1,2,3-Trichloropropane
Concen: 2.075 ug/l m
RT: 12.722 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion: 75 Resp: 4498
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





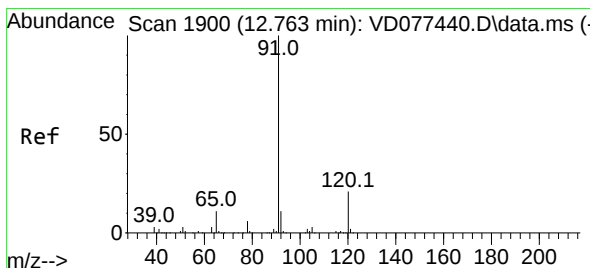
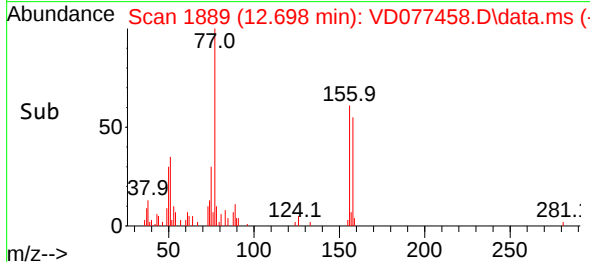
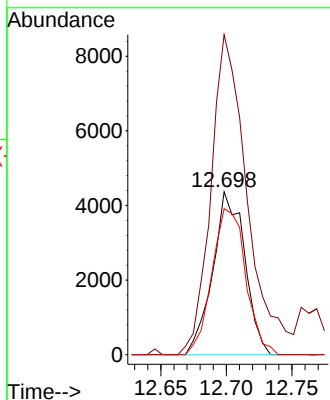
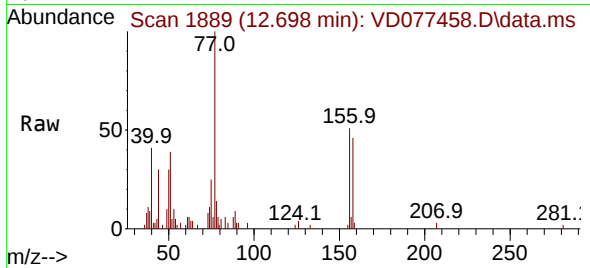
#77
Bromobenzene
Concen: 2.312 ug/l
RT: 12.698 min Scan# 1889
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion	Ratio	Lower	Upper
156	100		
77	223.6	76.8	230.4
158	94.8	48.6	145.9

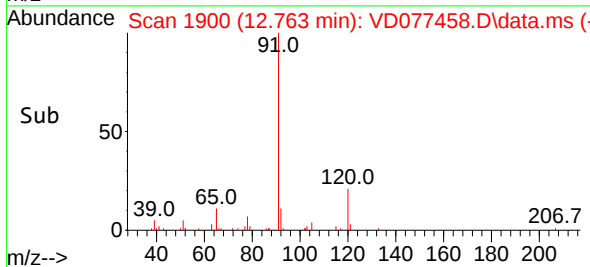
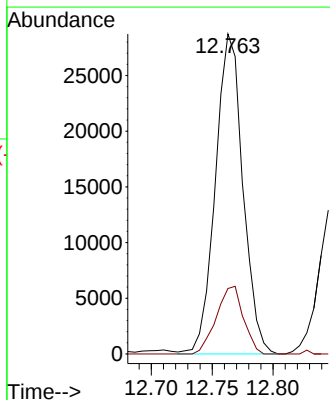
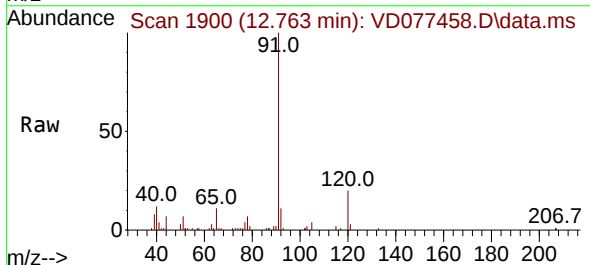
Manual Integrations
APPROVED

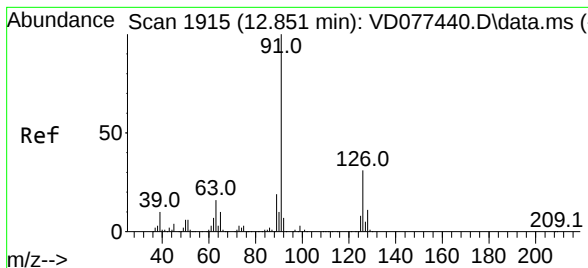
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#78
n-propylbenzene
Concen: 2.451 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.7	12.4	37.2





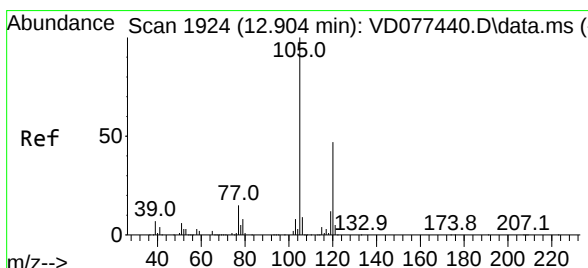
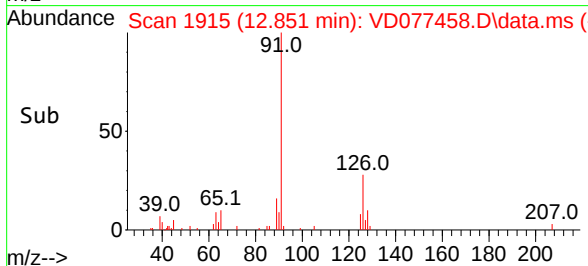
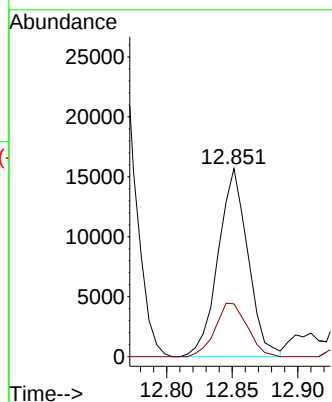
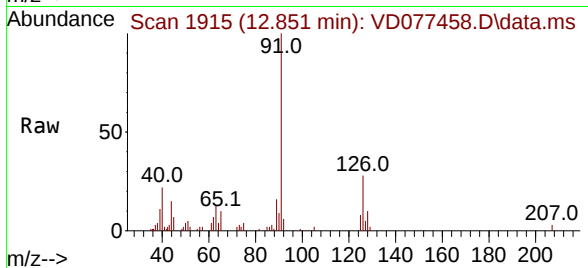
#79
2-Chlorotoluene
Concen: 2.377 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 91 Resp: 2481
Ion Ratio Lower Upper
91 100
126 30.5 19.4 58.1

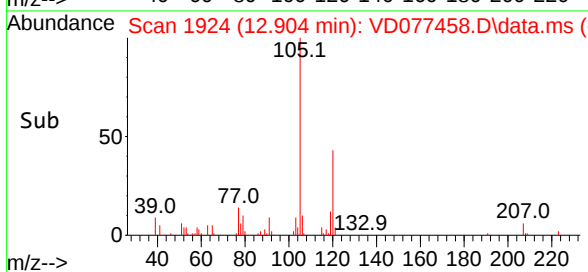
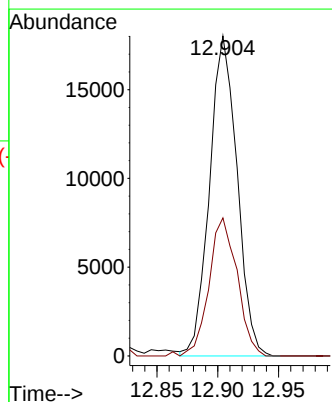
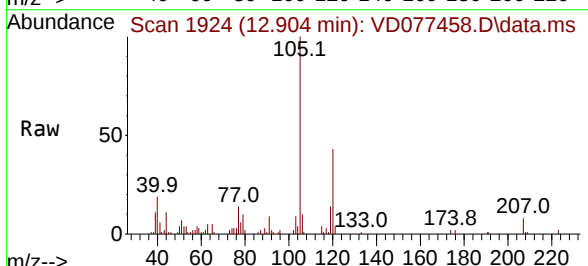
Manual Integrations
APPROVED

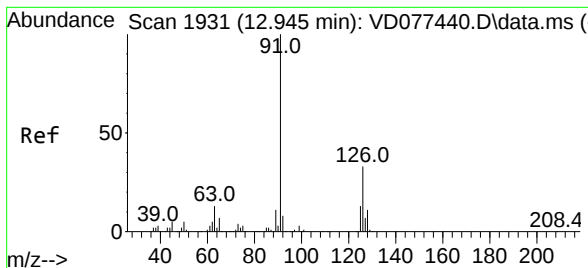
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#80
1,3,5-Trimethylbenzene
Concen: 2.330 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Tgt Ion:105 Resp: 28381
Ion Ratio Lower Upper
105 100
120 44.3 26.4 79.2





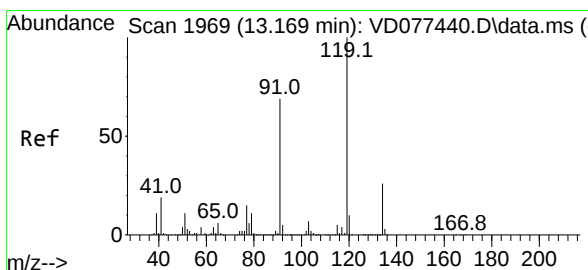
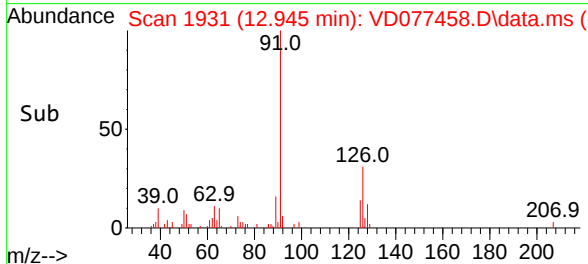
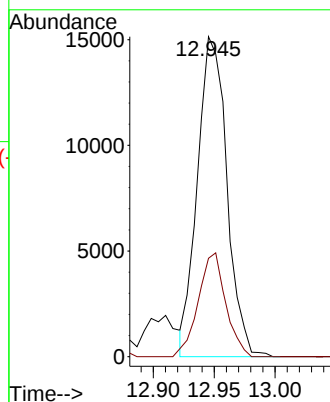
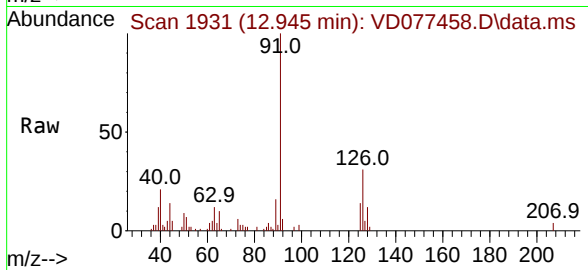
#82
4-Chlorotoluene
Concen: 2.344 ug/l
RT: 12.945 min Scan# 1931
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB

Tgt Ion: 91 Resp: 2548
Ion Ratio Lower Upper
91 100
126 30.3 19.4 58.4

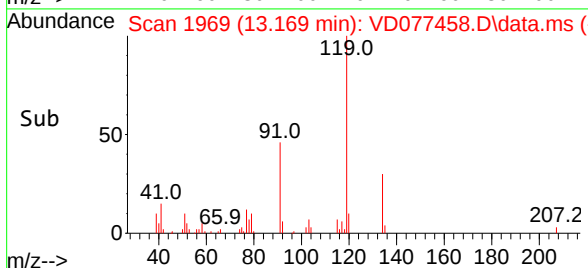
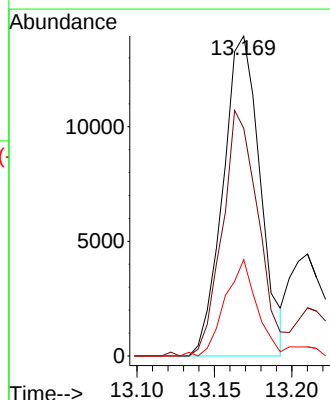
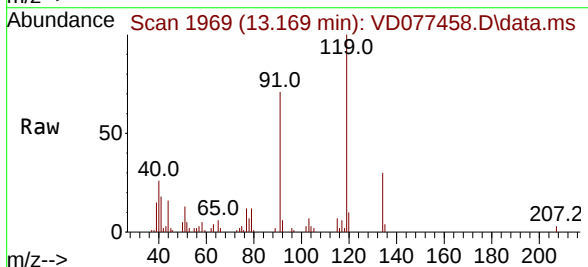
Manual Integrations
APPROVED

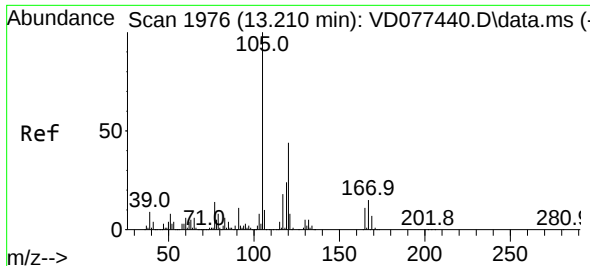
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#83
tert-Butylbenzene
Concen: 2.270 ug/l
RT: 13.169 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

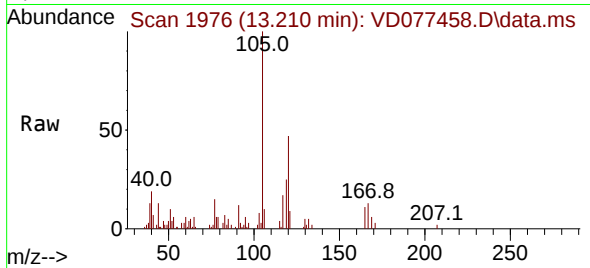
Tgt Ion:119 Resp: 23250
Ion Ratio Lower Upper
119 100
91 75.1 29.3 87.8
134 27.0 14.1 42.3





#84
1,2,4-Trimethylbenzene
Concen: 2.335 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

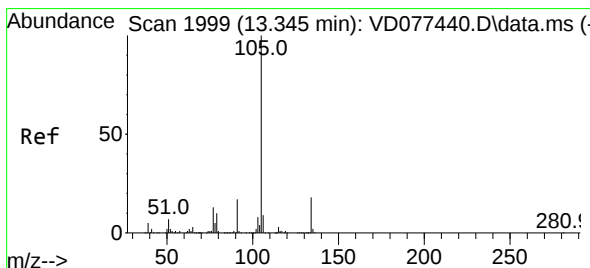
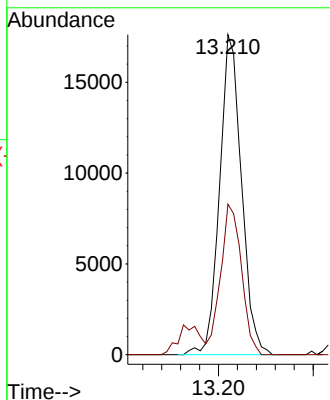
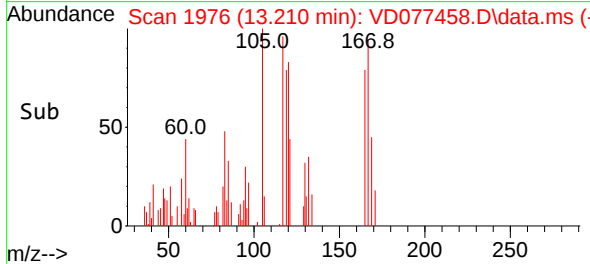
Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



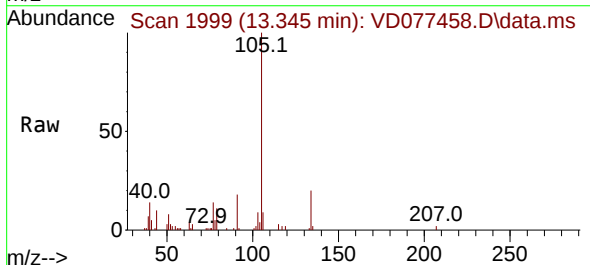
Tgt Ion:105 Resp: 2826
Ion Ratio Lower Upper
105 100
120 44.9 24.3 72.9

Manual Integrations
APPROVED

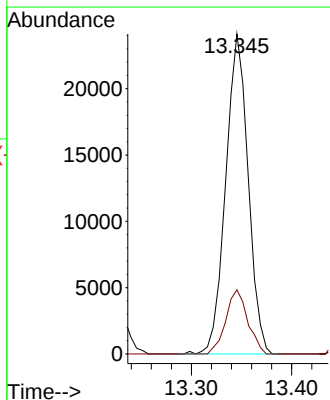
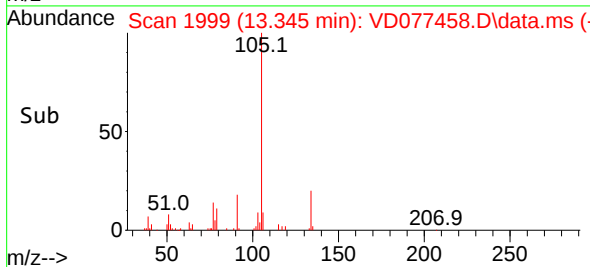
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

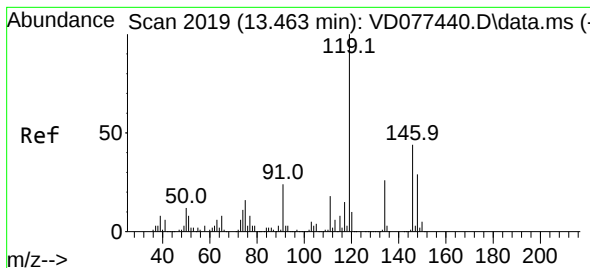


#85
sec-Butylbenzene
Concen: 2.387 ug/l
RT: 13.345 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion:105 Resp: 37408
Ion Ratio Lower Upper
105 100
134 19.6 10.9 32.9





#86

p-Isopropyltoluene

Concen: 2.383 ug/l

RT: 13.457 min Scan# 2018

Delta R.T. -0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

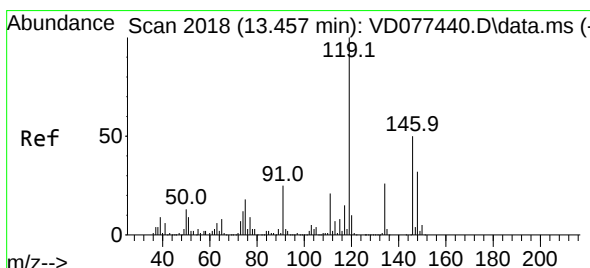
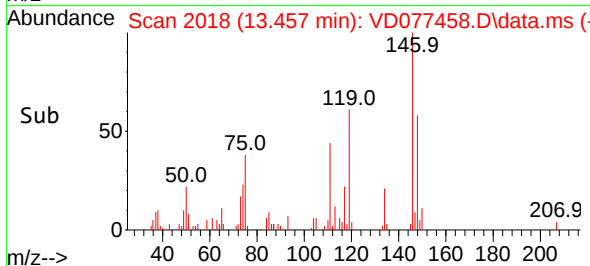
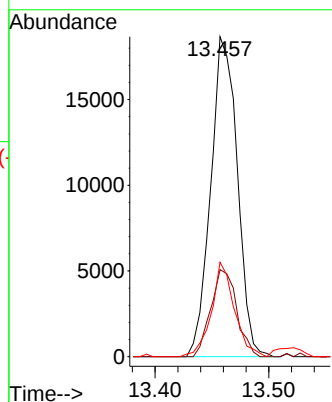
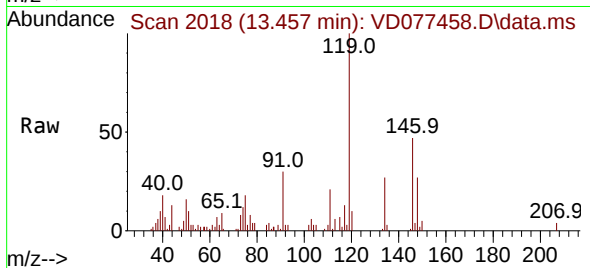
Tgt Ion:	119	Resp:	3035
Ion Ratio	Lower	Upper	
119	100		
134	26.5	14.2	42.6
91	25.5	10.5	31.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#87

1,3-Dichlorobenzene

Concen: 2.368 ug/l

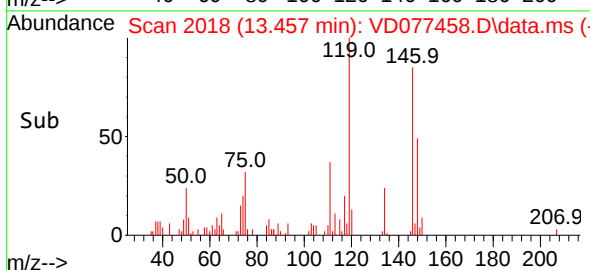
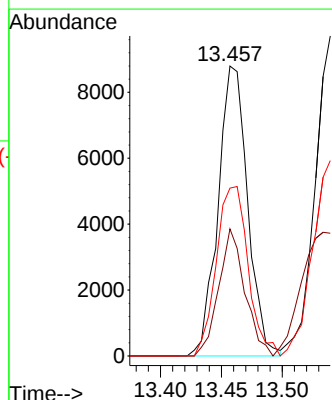
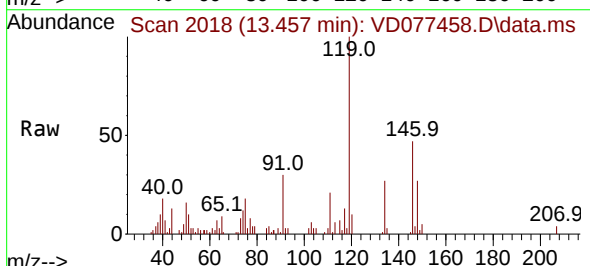
RT: 13.457 min Scan# 2018

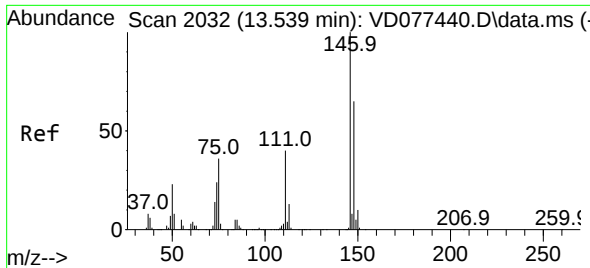
Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

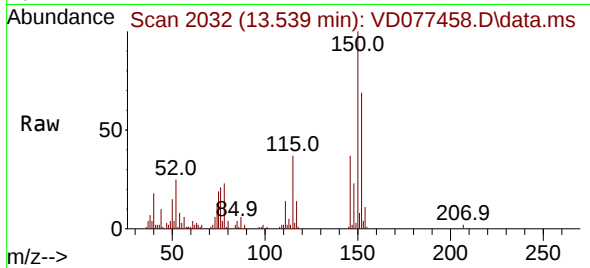
Tgt Ion:	146	Resp:	14876
Ion Ratio	Lower	Upper	
146	100		
111	38.9	17.9	53.8
148	62.7	32.3	96.8





#88
1,4-Dichlorobenzene
Concen: 2.493 ug/l m
RT: 13.539 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

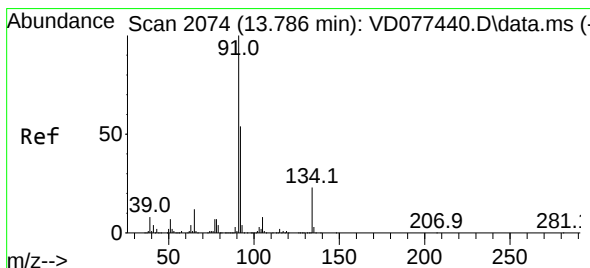
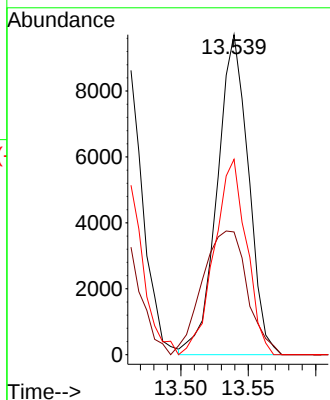
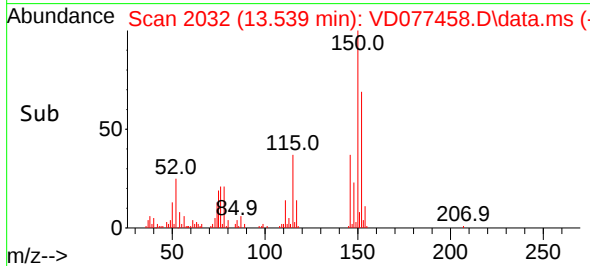
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-QT4-2023-07 2.5PPB



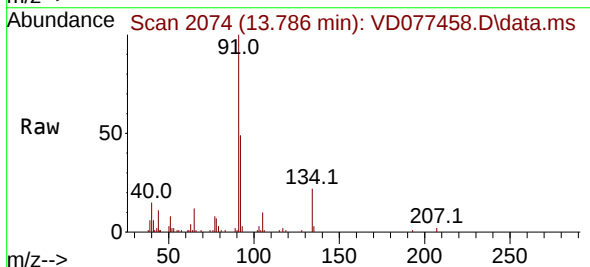
Tgt Ion:146 Resp: 15648
Ion Ratio Lower Upper
146 100
111 37.0 17.4 52.3
148 59.6 31.7 95.1

Manual Integrations
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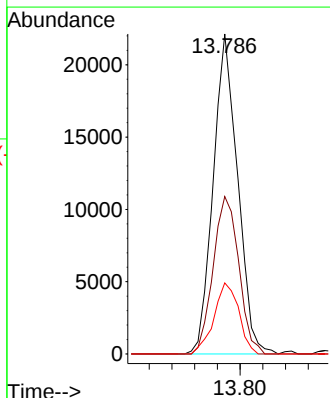
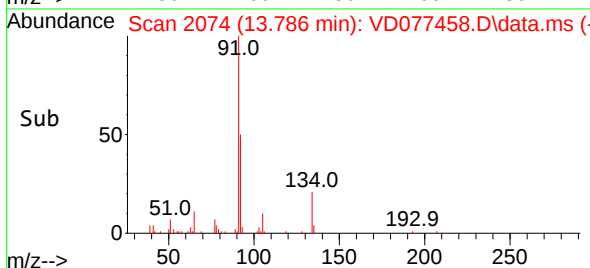
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

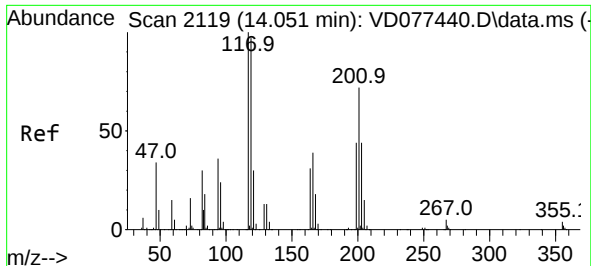


#89
n-Butylbenzene
Concen: 2.494 ug/l
RT: 13.786 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



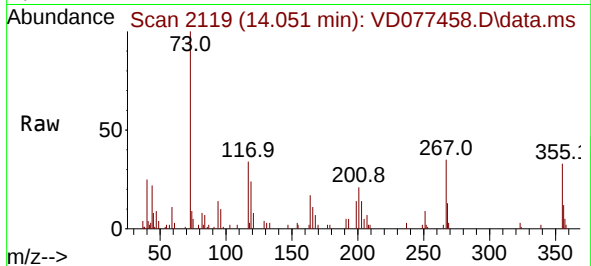
Tgt Ion: 91 Resp: 33018
Ion Ratio Lower Upper
91 100
92 51.6 26.5 79.5
134 22.6 13.8 41.3





#90
Hexachloroethane
Concen: 2.468 ug/l
RT: 14.051 min Scan# 2119
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

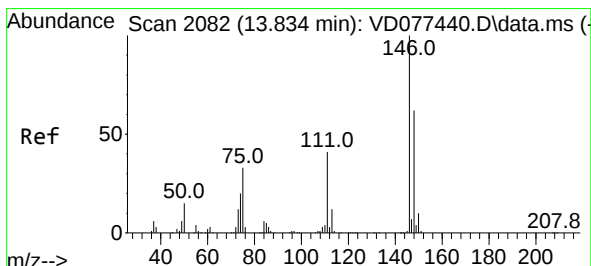
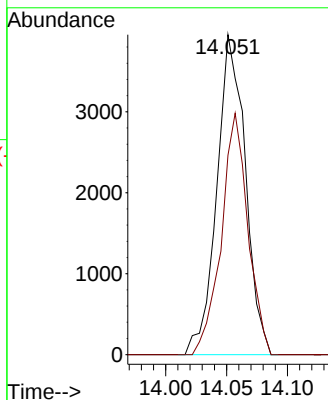
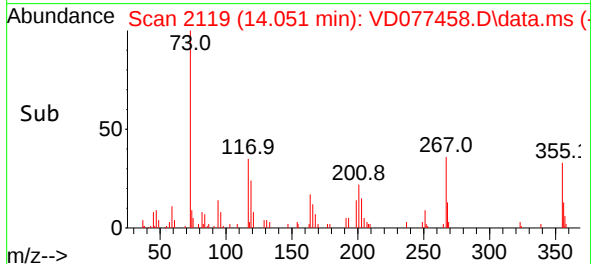
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



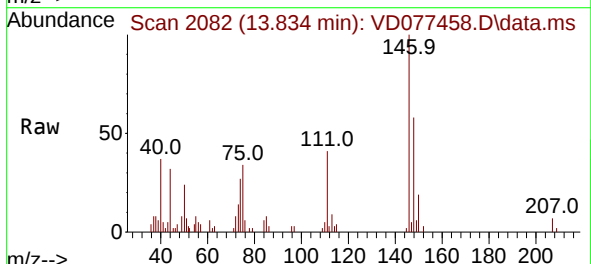
Tgt Ion:117 Resp: 643
Ion Ratio Lower Upper
117 100
201 70.4 38.5 115.5

Manual Integrations
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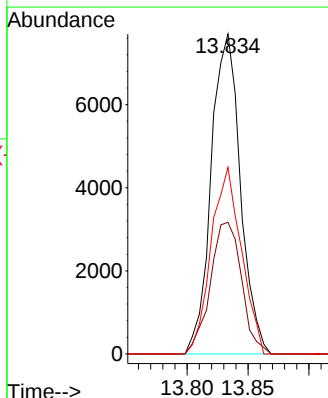
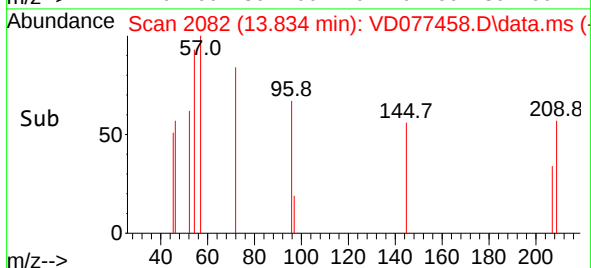
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

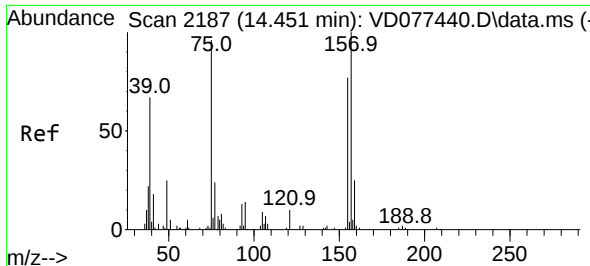


#91
1,2-Dichlorobenzene
Concen: 2.330 ug/l
RT: 13.834 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58



Tgt Ion:146 Resp: 12865
Ion Ratio Lower Upper
146 100
111 43.9 18.3 54.8
148 60.5 31.6 94.7





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.639 ug/l

RT: 14.445 min Scan# 2186

Delta R.T. -0.006 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-QT4-2023-07 2.5PPB

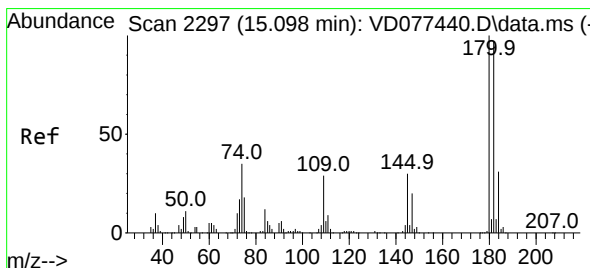
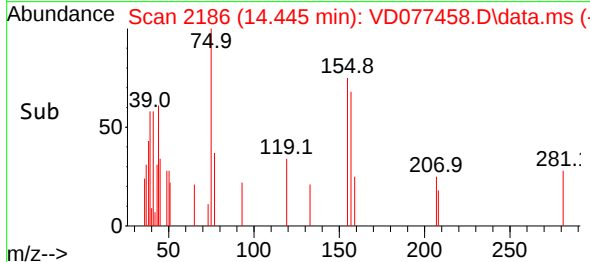
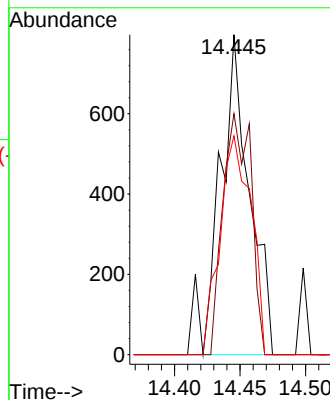
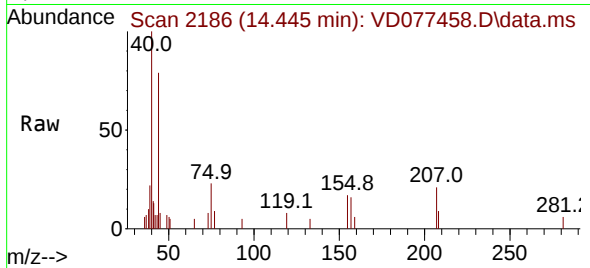
Tgt Ion:	75	Resp:	126
Ion Ratio	Lower	Upper	
75	100		
155	70.9	47.9	143.8
157	71.0	59.9	179.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#93

1,2,4-Trichlorobenzene

Concen: 2.143 ug/l

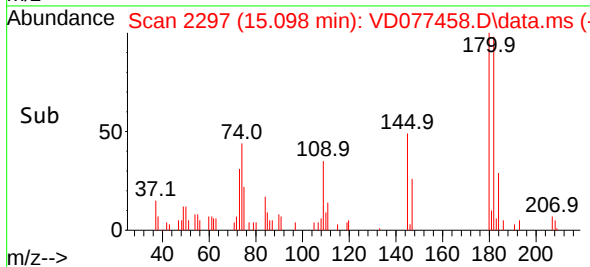
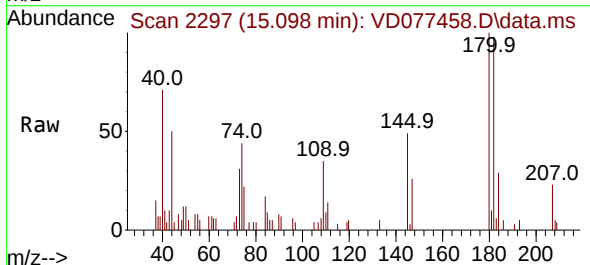
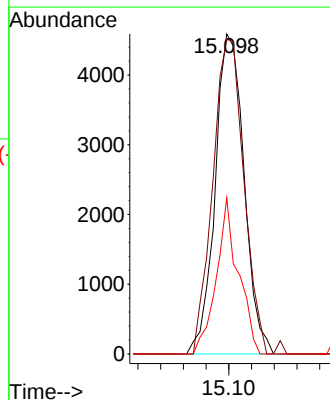
RT: 15.098 min Scan# 2297

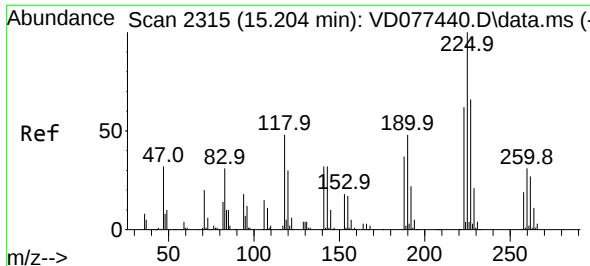
Delta R.T. 0.000 min

Lab File: VD077458.D

Acq: 31 Oct 2023 13:58

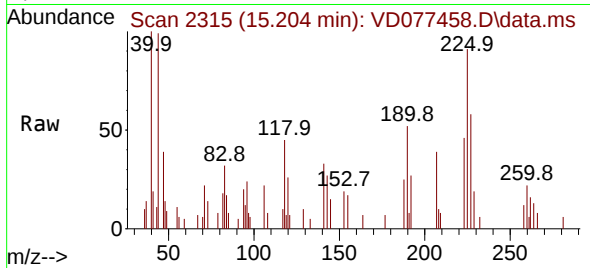
Tgt Ion:	180	Resp:	8126
Ion Ratio	Lower	Upper	
180	100		
182	105.5	48.5	145.6
145	37.1	14.2	42.6





#94
Hexachlorobutadiene
Concen: 2.163 ug/l
RT: 15.204 min Scan# 2315
Delta R.T. 0.000 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

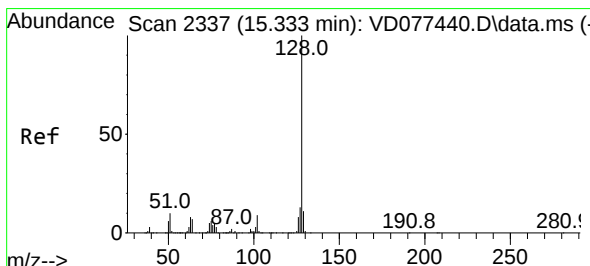
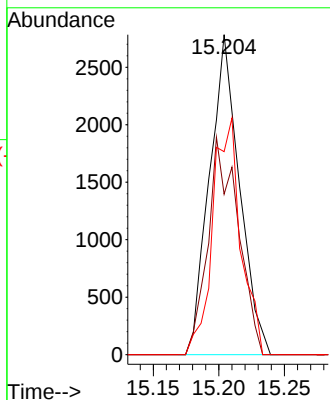
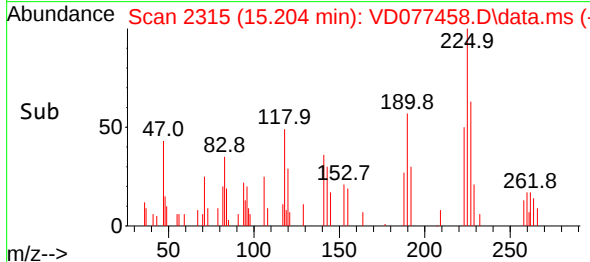
Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion:225 Resp: 4424
Ion Ratio Lower Upper
225 100
223 68.6 31.6 94.8
227 69.1 31.7 95.1

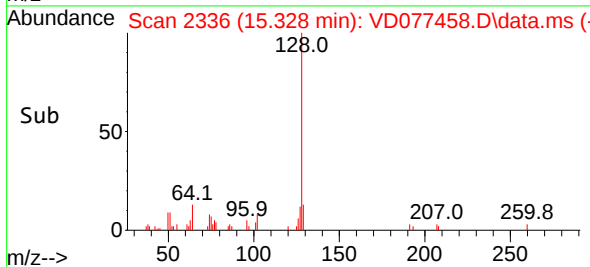
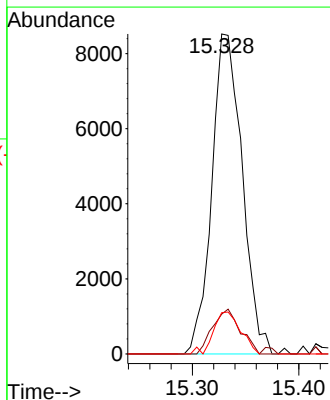
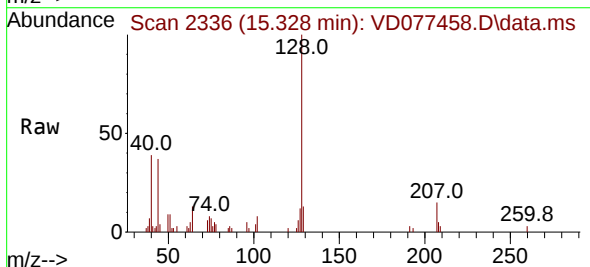
Manual Integrations
APPROVED

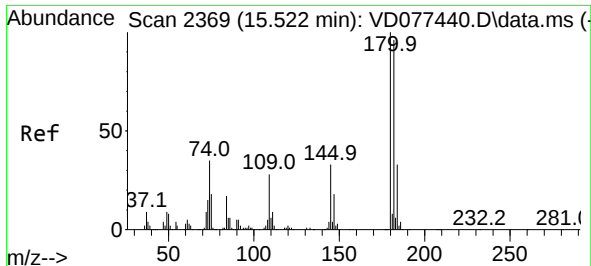
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#95
Naphthalene
Concen: 2.331 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD077458.D
Acq: 31 Oct 2023 13:58

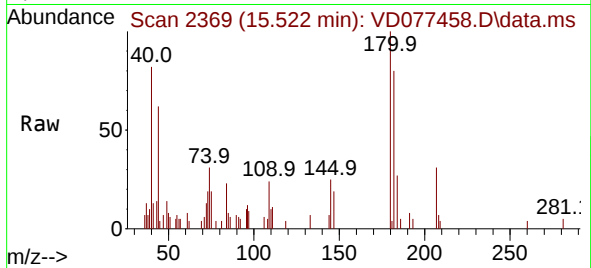
Tgt Ion:128 Resp: 16862
Ion Ratio Lower Upper
128 100
127 12.4 10.5 15.7
129 12.9 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.203 ug/l
 RT: 15.522 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD077458.D
 Acq: 31 Oct 2023 13:58

Instrument : MSVOA_D
 ClientSampleId :
 MDL-SOIL-QT4-2023-07 2.5PPB



Tgt Ion:	180	Resp:	721
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.3	141.9
145	31.5	15.1	45.3

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/01/2023
 Supervised By :Mahesh Dadoda 11/01/2023

