

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU061225\
 Data File : VU063394.D
 Acq On : 12 Jun 2025 12:13
 Operator : MD/SY
 Sample : Q2117-06
 Misc : 5.00g/5.0mL/100uL/5mL/MSVOA_U/MEOH/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04

Quant Time: Jun 16 08:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM061125WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jun 16 08:39:07 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2025
 Supervised By : Mahesh Dadoda 06/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	132637	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	141717	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	64721	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	46426	46.366	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	92.740%		
7) Chloroethane-d5	1.901	69	46552	47.776	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.560%		
11) 1,1-Dichloroethene-d2	2.554	63	65029	34.180	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	68.360%		
21) 2-Butanone-d5	4.615	46	93766	107.918	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	107.920%		
24) Chloroform-d	5.052	84	103112	48.445	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.880%		
26) 1,2-Dichloroethane-d4	5.692	65	66555	51.058	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	102.120%		
32) Benzene-d6	5.718	84	199541	46.554	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.100%		
36) 1,2-Dichloropropane-d6	6.682	67	71035	48.863	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.720%		
41) Toluene-d8	7.891	98	168612	44.832	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.660%		
43) trans-1,3-Dichloroprop...	8.174	79	27299	46.664	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	93.320%		
47) 2-Hexanone-d5	8.627	63	51320	95.083	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	95.080%		
56) 1,1,2,2-Tetrachloroeth...	10.746	84	106627	48.023	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	96.040%		
66) 1,2-Dichlorobenzene-d4	12.187	152	63168	53.343	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	106.680%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	3231	2.535	ug/L	97
3) Chloromethane	1.522	50	3791	2.633	ug/L	92
5) Vinyl chloride	1.599	62	4623	2.920	ug/L	86
6) Bromomethane	1.846	94	2373	2.663	ug/L	91
8) Chloroethane	1.923	64	2894	2.922	ug/L	99
9) Trichlorofluoromethane	2.129	101	5136	2.755	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.563	101	3303	2.973	ug/L #	83
12) 1,1-Dichloroethene	2.567	96	2989	3.023	ug/L #	1
13) Acetone	2.624	43	3709	5.633	ug/L	99
14) Carbon disulfide	2.782	76	8554	2.620	ug/L	100
15) Methyl Acetate	2.952	43	3046	2.230	ug/L #	100
17) trans-1,2-Dichloroethene	3.348	96	2722	2.562	ug/L	91
18) Methyl tert-butyl Ether	3.354	73	7256	2.276	ug/L #	85
19) 1,1-Dichloroethane	3.866	63	5536	2.489	ug/L	98
20) cis-1,2-Dichloroethene	4.660	96	3213	2.660	ug/L	86
22) 2-Butanone	4.724	43	5619m	5.770	ug/L	
23) Bromochloromethane	4.972	128	1642	2.544	ug/L	86
25) Chloroform	5.078	83	6320	2.848	ug/L	95
27) 1,2-Dichloroethane	5.791	62	4637	2.664	ug/L #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Cyclohexane	5.380	56	3758	1.998	ug/L	89
30) 1,1,1-Trichloroethane	5.303	97	4228	2.363	ug/L	94
31) Carbon tetrachloride	5.518	117	3628	2.411	ug/L	100
33) Benzene	5.769	78	12307	2.499	ug/L	100
34) Trichloroethene	6.541	95	3495	2.761	ug/L	82
35) Methylcyclohexane	6.753	83	4232	2.260	ug/L	93
37) 1,2-Dichloropropane	6.788	63	3450	2.362	ug/L #	89
38) Bromodichloromethane	7.097	83	4318	2.506	ug/L #	98
39) cis-1,3-Dichloropropene	7.605	75	4608	2.327	ug/L	97
40) 4-Methyl-2-pentanone	7.788	43	8513	4.698	ug/L	96
42) Toluene	7.965	91	12442	2.418	ug/L	94
44) trans-1,3-Dichloropropene	8.206	75	4711	2.542	ug/L	98
45) 1,1,2-Trichloroethane	8.393	97	3459	2.587	ug/L	93
46) Tetrachloroethene	8.547	164	2444	2.612	ug/L	89
48) 2-Hexanone	8.685	43	12057	8.532	ug/L #	94
49) Dibromochloromethane	8.801	129	2910	2.294	ug/L	89
50) 1,2-Dibromoethane	8.917	107	3554	2.601	ug/L #	98
51) Chlorobenzene	9.444	112	8416	2.523	ug/L	96
52) Ethylbenzene	9.566	91	11431	2.122	ug/L	97
53) m,p-Xylene	9.695	106	3868	1.940	ug/L	85
54) o-Xylene	10.097	106	4083	2.149	ug/L	69
55) Styrene	10.116	104	5982	1.833	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.775	83	6260	2.620	ug/L	93
59) Bromoform	10.286	173	2289	2.666	ug/L #	94
60) 1,2,3-Trichloropropane	10.814	75	4790	3.078	ug/L	95
61) Isopropylbenzene	10.479	105	9578	2.241	ug/L	99
62) 1,3,5-Trimethylbenzene	11.084	105	6796	2.057	ug/L	98
63) 1,2,4-Trimethylbenzene	11.463	105	6111	1.947	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	5357	2.525	ug/L	96
65) 1,4-Dichlorobenzene	11.833	146	5978	2.741	ug/L	98
67) 1,2-Dichlorobenzene	12.203	146	6043	2.821	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.000	75	1004	2.399	ug/L	94
69) 1,3,5-Trichlorobenzene	13.222	180	3623	2.522	ug/L #	67
70) 1,2,4-trichlorobenzene	13.846	180	3039	2.725	ug/L #	83
71) Naphthalene	14.097	128	7243m	2.408	ug/L	
72) 1,2,3-Trichlorobenzene	14.328	180	2661	2.410	ug/L #	90

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

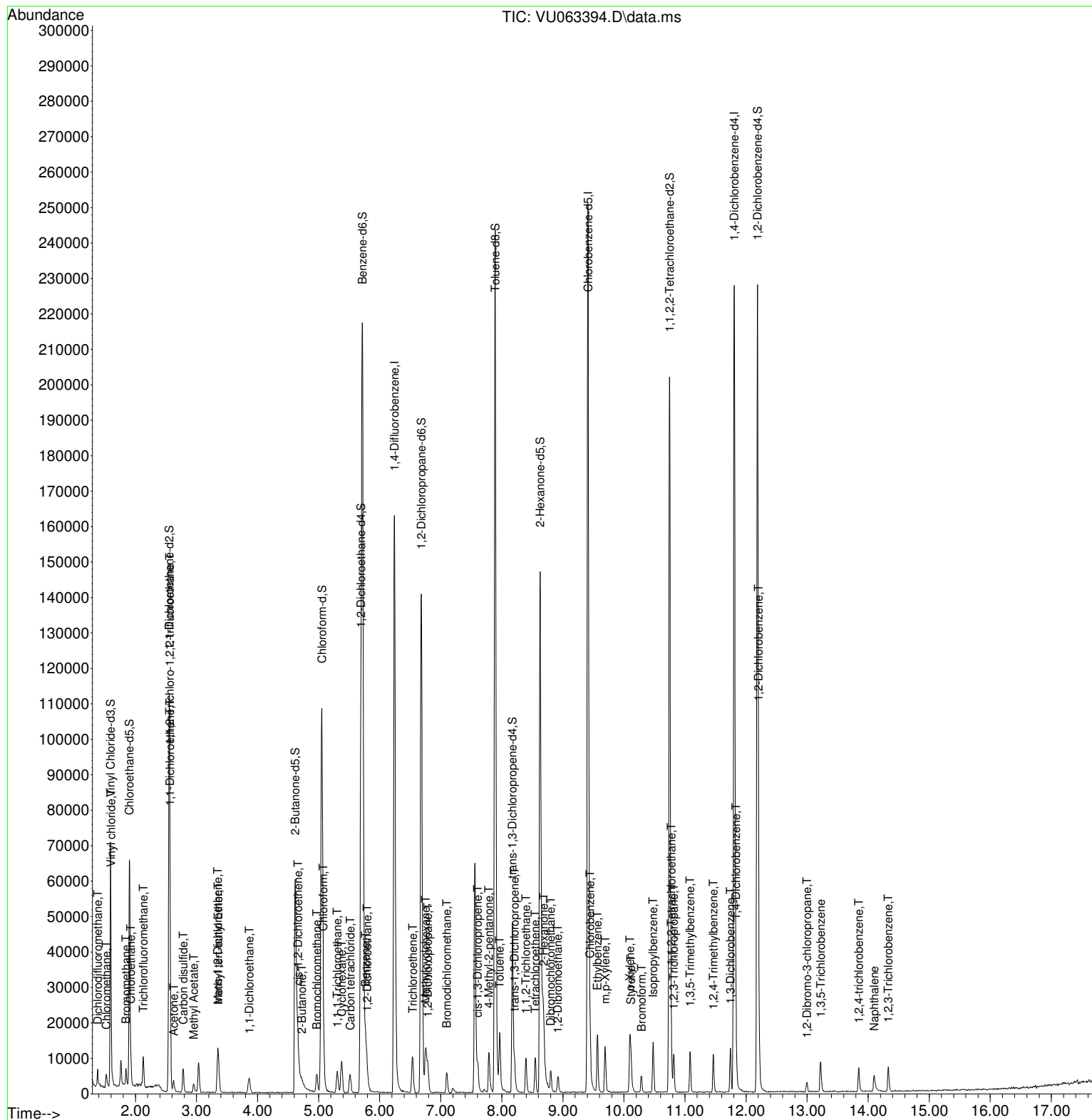
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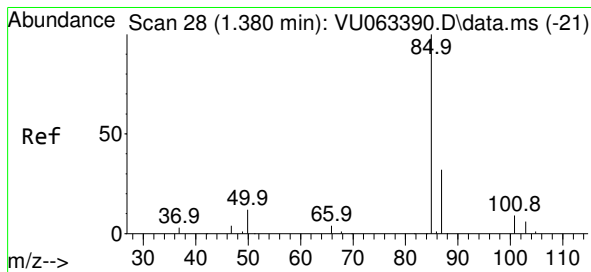
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ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

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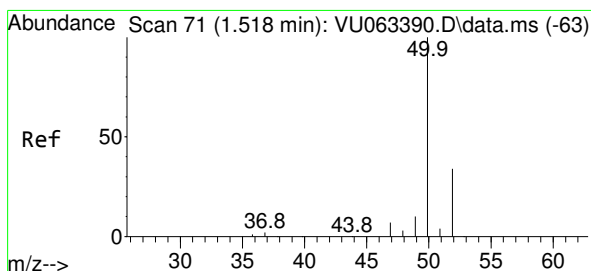
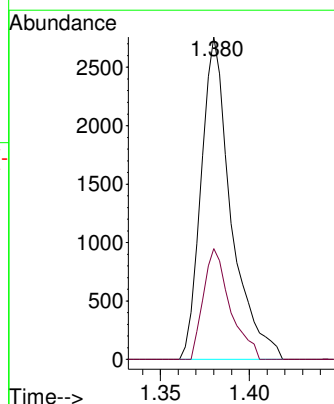
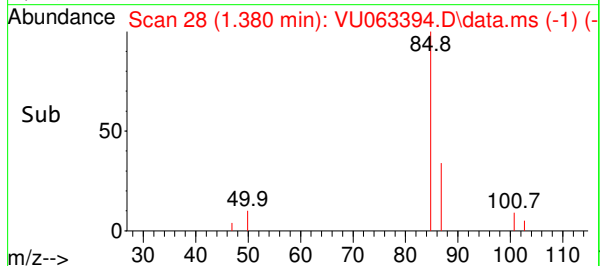
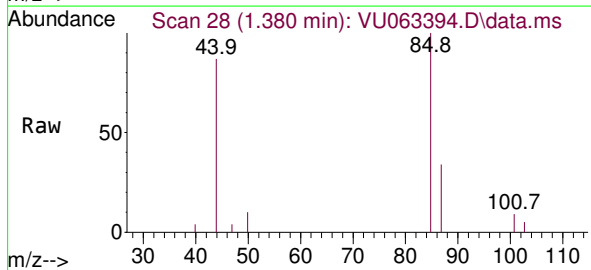
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Dichlorodifluoromethane
Concen: 2.535 ug/L
RT: 1.380 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 85 Resp: 323
Ion Ratio Lower Upper
85 100
87 30.7 25.8 38.6

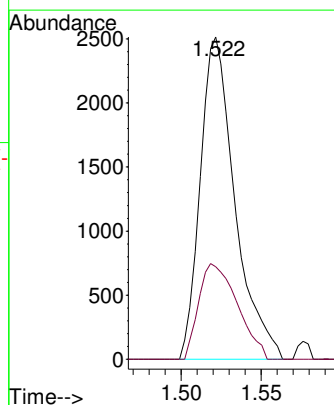
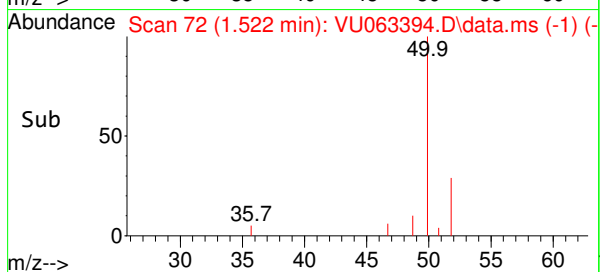
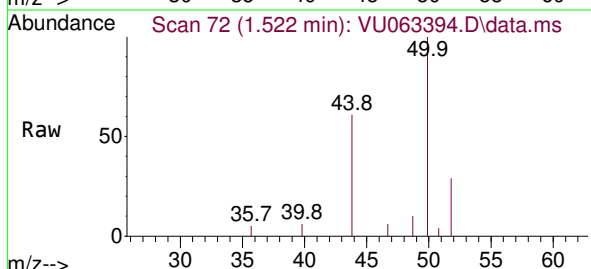
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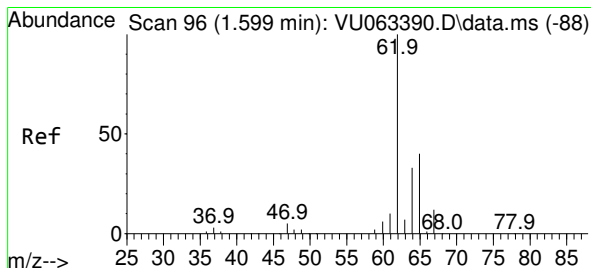
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#3
Chloromethane
Concen: 2.633 ug/L
RT: 1.522 min Scan# 72
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 50 Resp: 3791
Ion Ratio Lower Upper
50 100
52 28.7 23.2 43.0





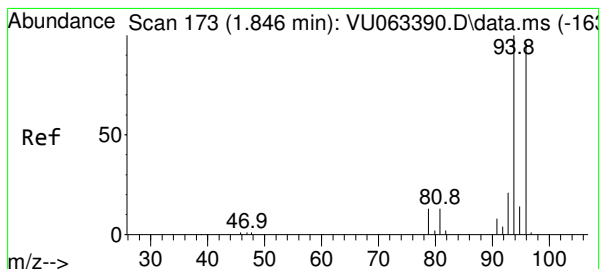
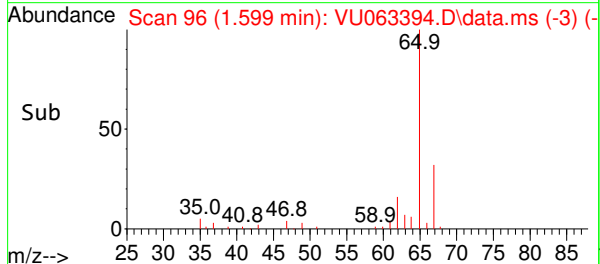
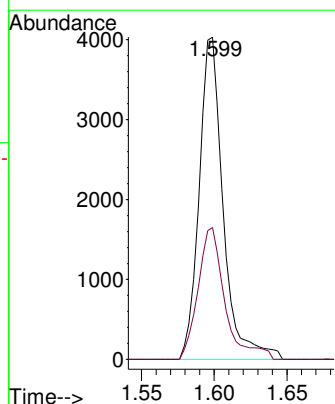
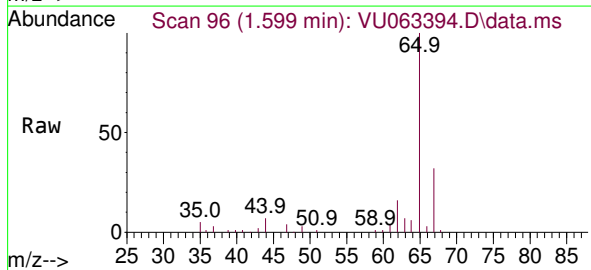
#5
 Vinyl chloride
 Concen: 2.920 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 62 Resp: 462
 Ion Ratio Lower Upper
 62 100
 64 40.9 23.2 43.2

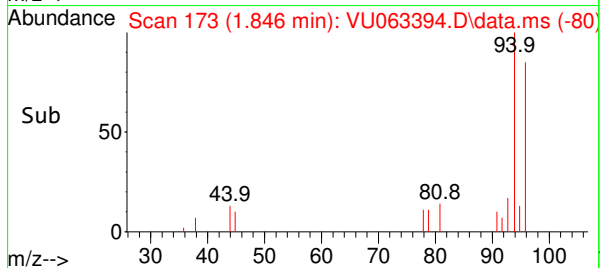
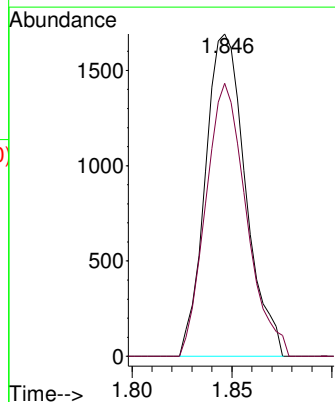
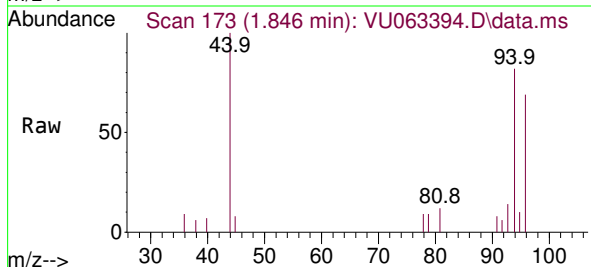
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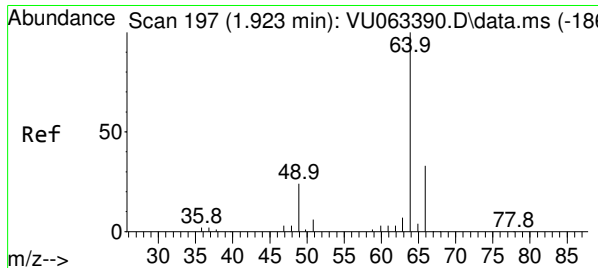
Reviewed By :John Carlone 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025



#6
 Bromomethane
 Concen: 2.663 ug/L
 RT: 1.846 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Tgt Ion: 94 Resp: 2373
 Ion Ratio Lower Upper
 94 100
 96 84.7 65.2 121.2





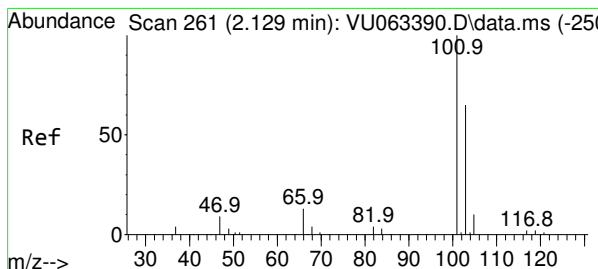
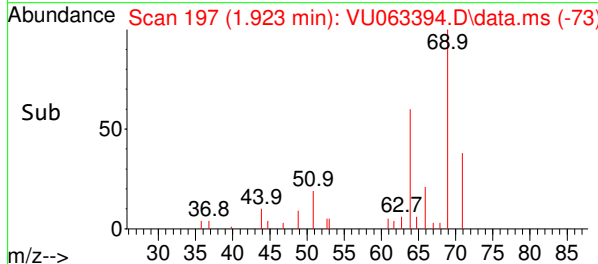
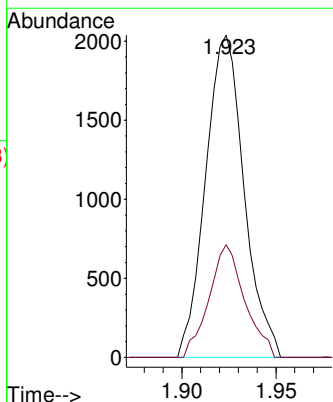
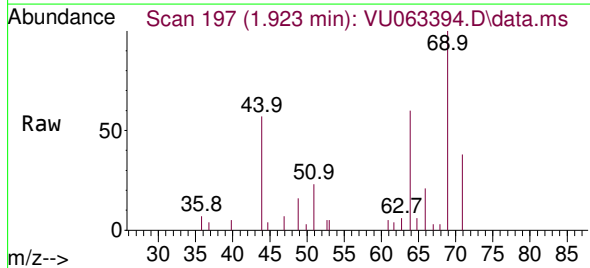
#8
Chloroethane
Concen: 2.922 ug/L
RT: 1.923 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 64 Resp: 289
Ion Ratio Lower Upper
64 100
66 32.0 22.0 41.0

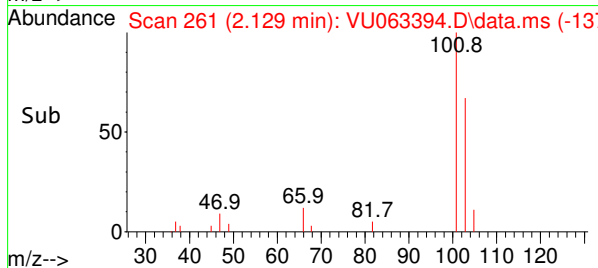
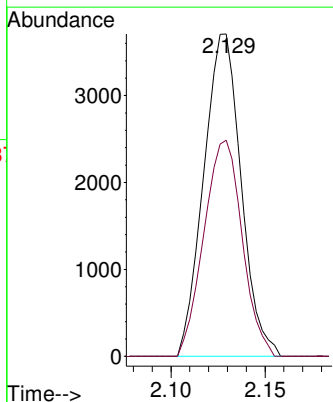
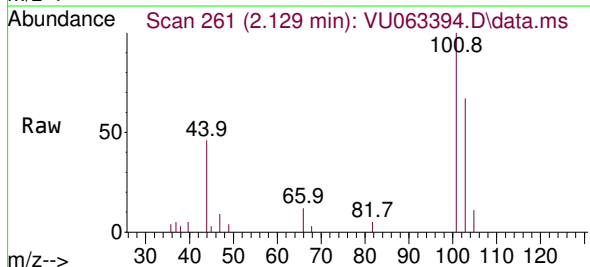
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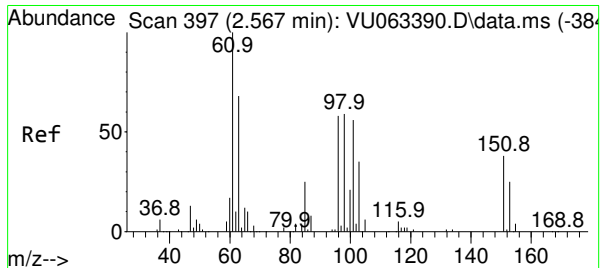
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#9
Trichlorofluoromethane
Concen: 2.755 ug/L
RT: 2.129 min Scan# 261
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:101 Resp: 5136
Ion Ratio Lower Upper
101 100
103 68.5 51.2 76.8





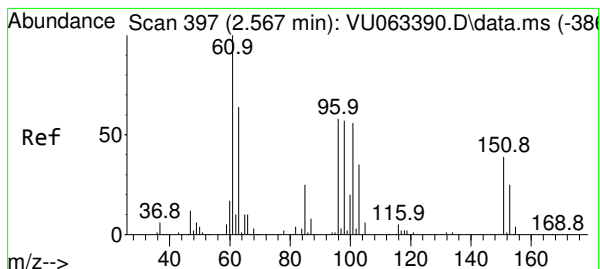
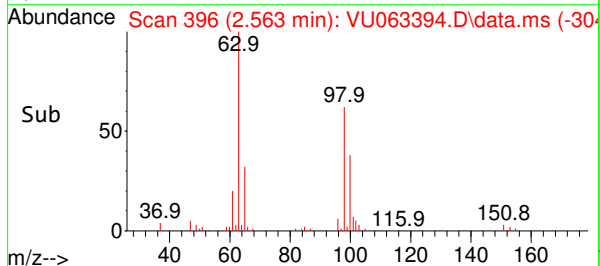
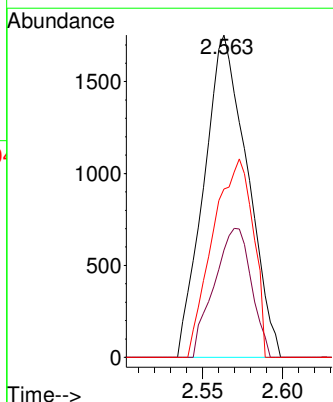
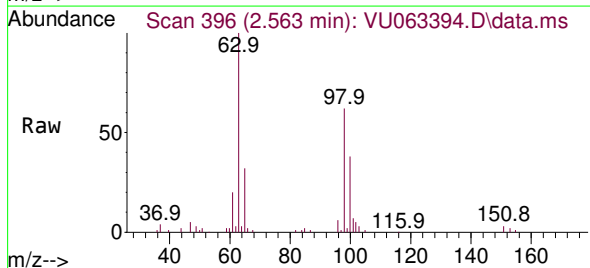
#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.973 ug/L
 RT: 2.563 min Scan# 396
 Delta R.T. -0.003 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
 ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 101 Resp: 336
 Ion Ratio Lower Upper
 101 100
 85 34.5 36.5 54.7
 151 57.3 57.4 86.6

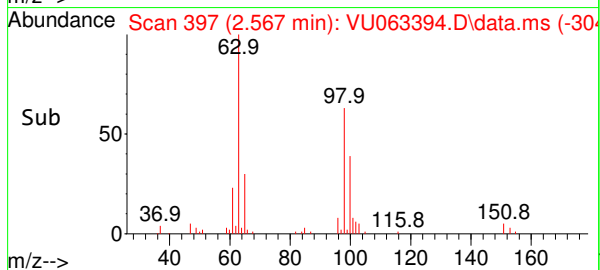
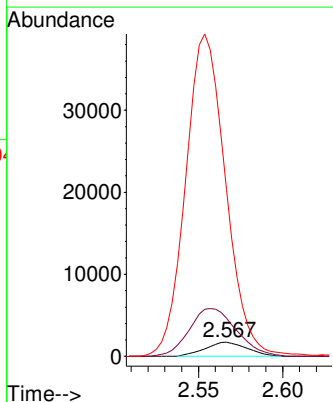
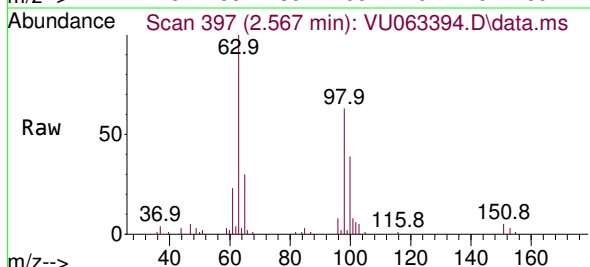
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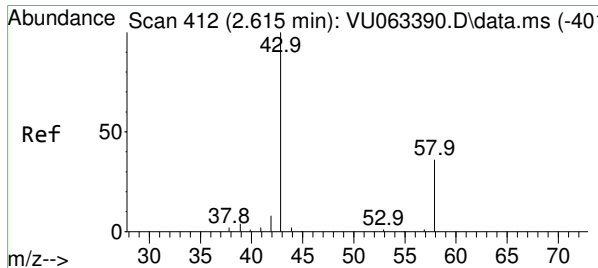
Reviewed By : John Carlone 06/17/2025
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#12
 1,1-Dichloroethene
 Concen: 3.023 ug/L
 RT: 2.567 min Scan# 397
 Delta R.T. 0.000 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Tgt Ion: 96 Resp: 2989
 Ion Ratio Lower Upper
 96 100
 61 271.2 121.9 226.5#
 63 1187.6 93.2 173.0#





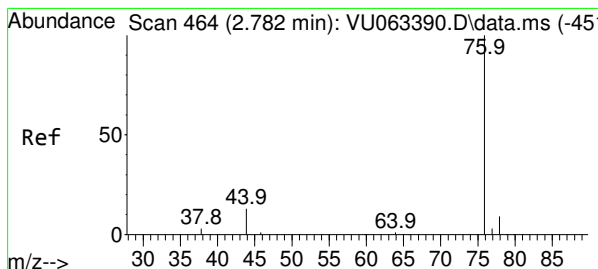
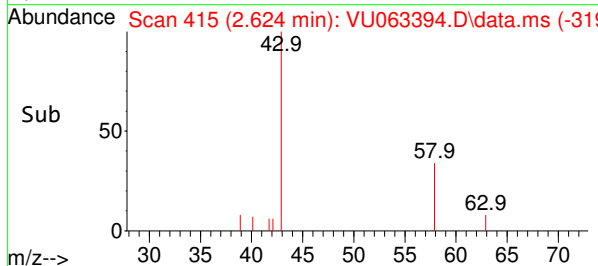
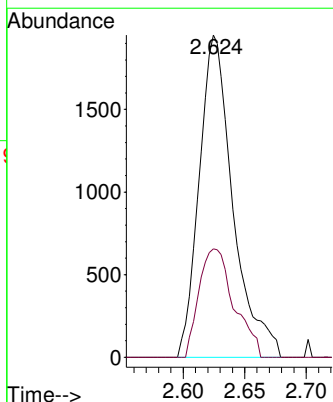
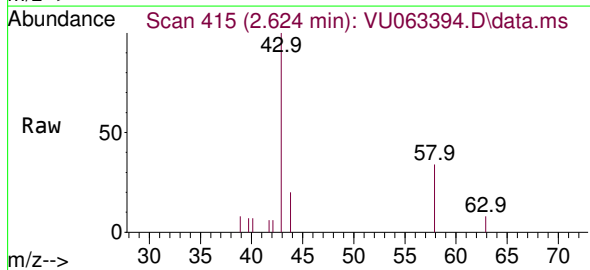
#13
Acetone
Concen: 5.633 ug/L
RT: 2.624 min Scan# 415
Delta R.T. 0.010 min
Lab File: VU063394.D
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Tgt Ion: 43 Resp: 376
Ion Ratio Lower Upper
43 100
58 34.9 0.0 68.4

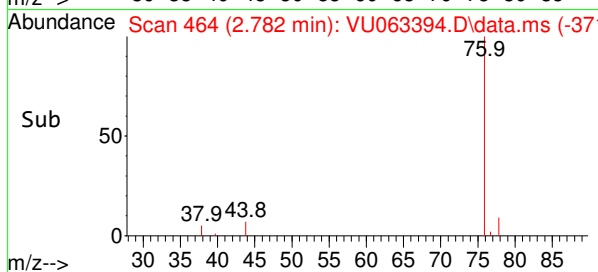
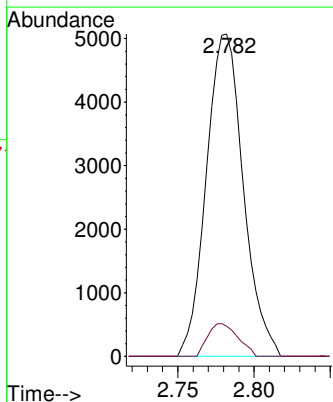
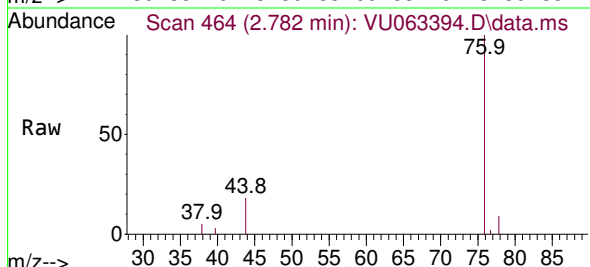
Manual Integrations
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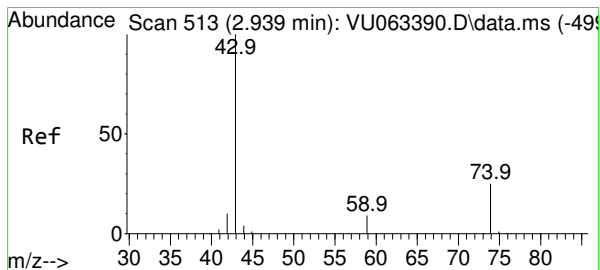
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#14
Carbon disulfide
Concen: 2.620 ug/L
RT: 2.782 min Scan# 464
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 76 Resp: 8554
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2





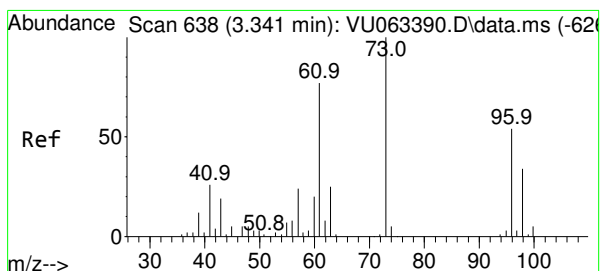
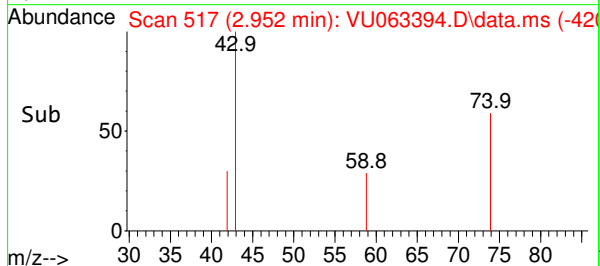
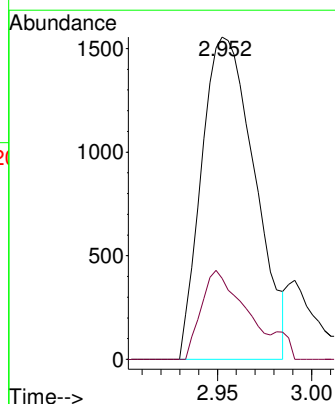
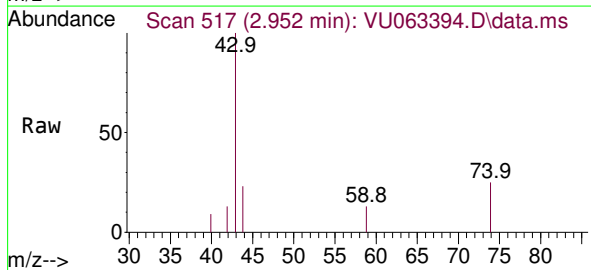
#15
Methyl Acetate
Concen: 2.230 ug/L
RT: 2.952 min Scan# 517
Delta R.T. 0.013 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 43 Resp: 304
Ion Ratio Lower Upper
43 100
74 22.7 0.0 0.0

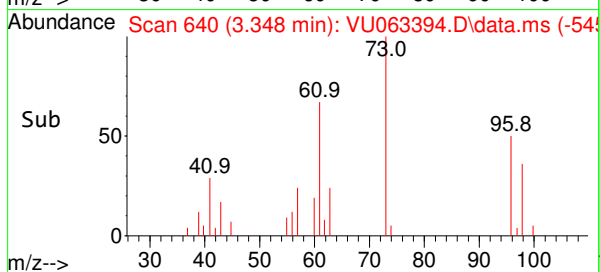
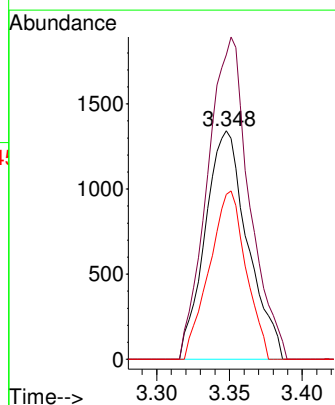
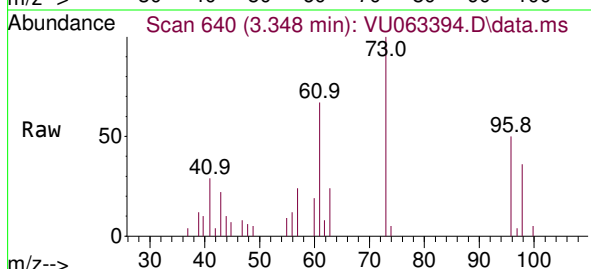
Manual Integrations
APPROVED

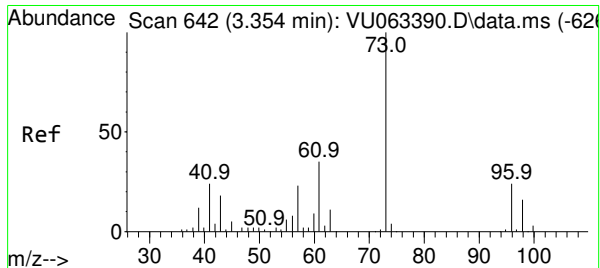
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#17
trans-1,2-Dichloroethene
Concen: 2.562 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 96 Resp: 2722
Ion Ratio Lower Upper
96 100
61 133.1 100.1 185.9
98 72.1 44.2 82.0





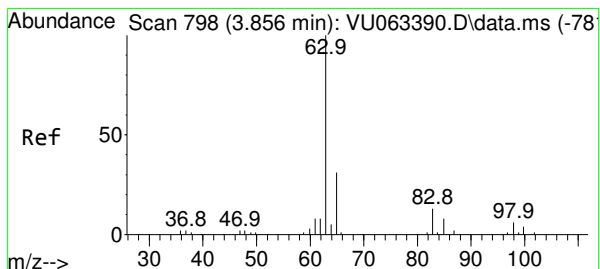
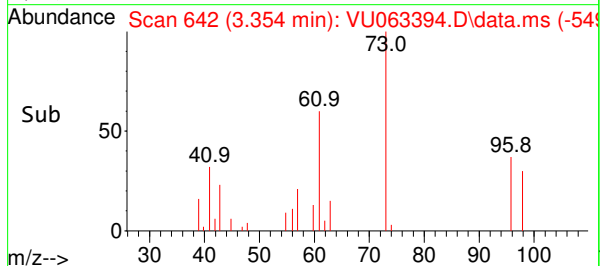
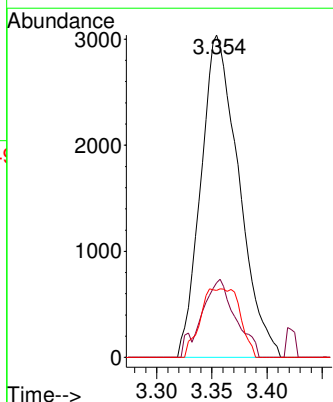
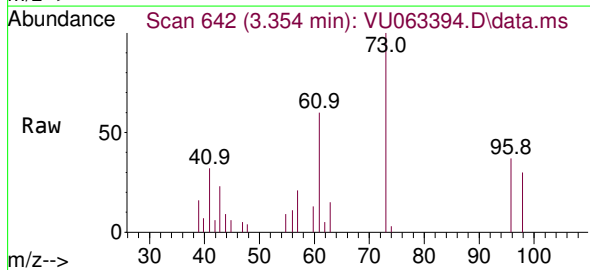
#18
Methyl tert-butyl Ether
Concen: 2.276 ug/L
RT: 3.354 min Scan# 642
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion:	73	Resp:	725
Ion	Ratio	Lower	Upper
73	100		
43	20.2	15.4	23.2
57	10.1	18.3	27.5

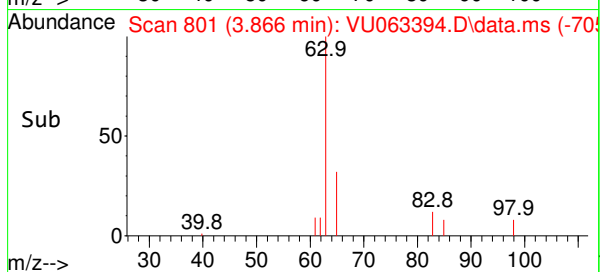
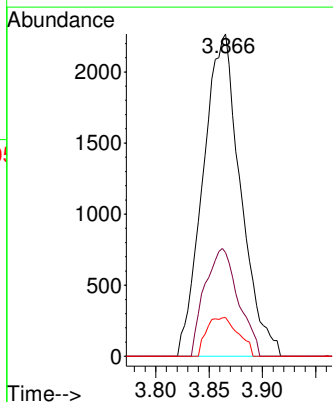
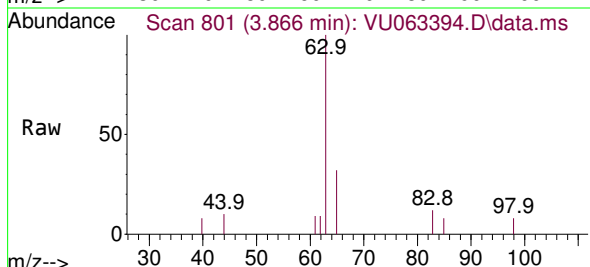
Manual Integrations
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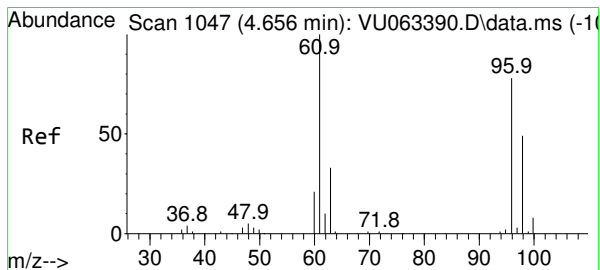
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#19
1,1-Dichloroethane
Concen: 2.489 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

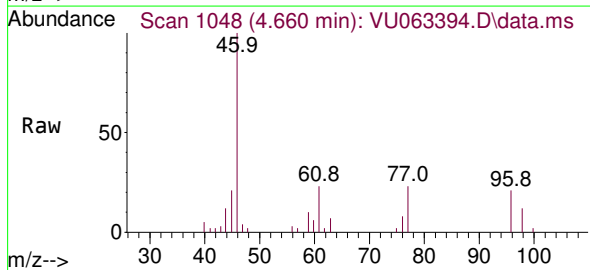
Tgt Ion:	63	Resp:	5536
Ion	Ratio	Lower	Upper
63	100		
65	32.2	21.9	40.7
83	12.0	9.0	16.6





#20
 cis-1,2-Dichloroethene
 Concen: 2.660 ug/L
 RT: 4.660 min Scan# 1
 Delta R.T. 0.003 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

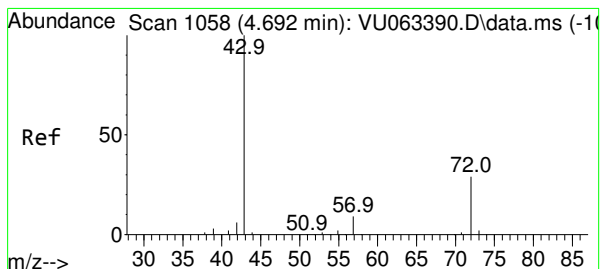
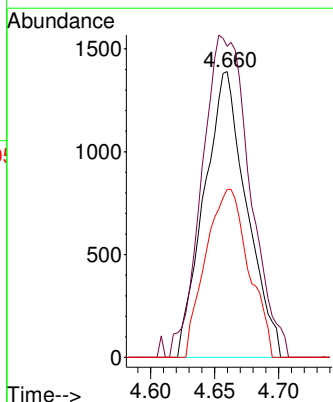
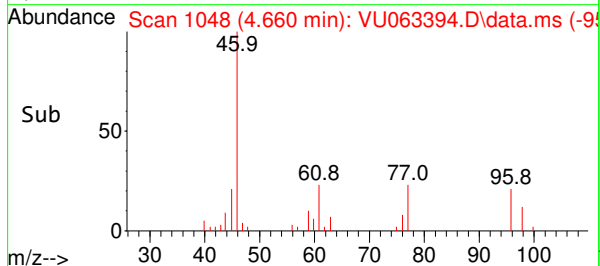
Instrument : MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04



Tgt Ion: 96 Resp: 321
 Ion Ratio Lower Upper
 96 100
 61 108.8 91.6 170.0
 98 58.8 44.0 81.8

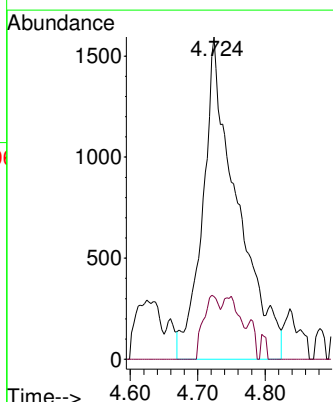
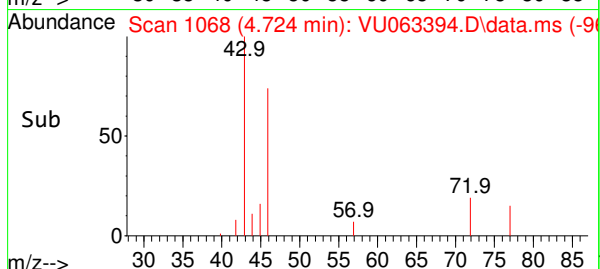
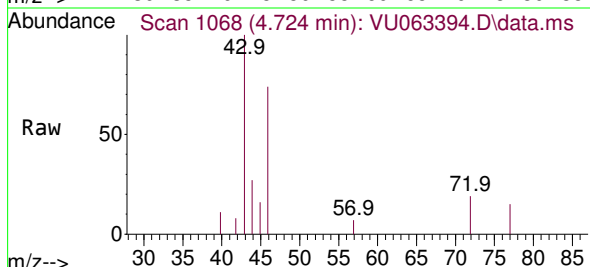
Manual Integrations
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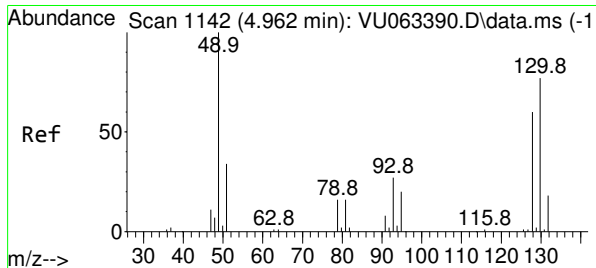
Reviewed By :John Carlone 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025



#22
 2-Butanone
 Concen: 5.770 ug/L m
 RT: 4.724 min Scan# 1068
 Delta R.T. 0.032 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Tgt Ion: 43 Resp: 5619
 Ion Ratio Lower Upper
 43 100
 72 1.2 15.4 46.4#





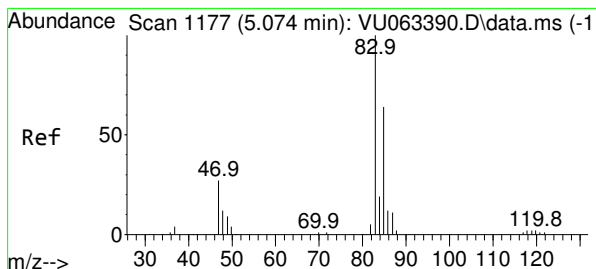
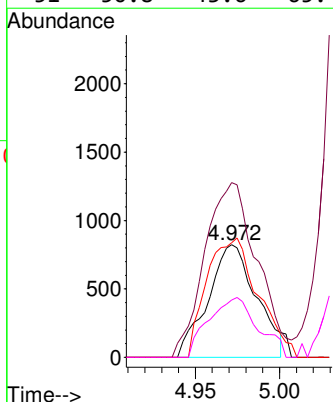
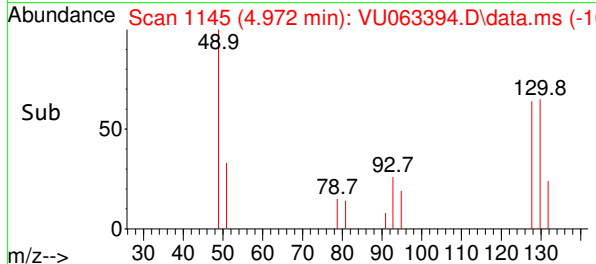
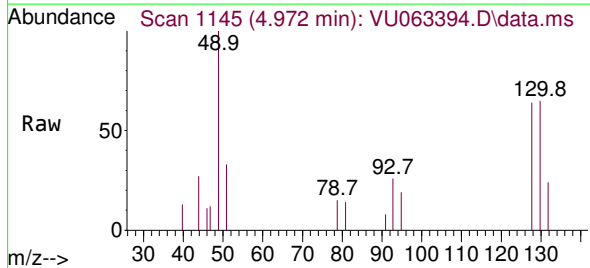
#23
Bromochloromethane
Concen: 2.544 ug/L
RT: 4.972 min Scan# 1145
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 128 Resp: 164
Ion Ratio Lower Upper
128 100
49 155.3 118.2 219.6
130 101.7 89.2 165.8
51 50.8 43.6 65.4

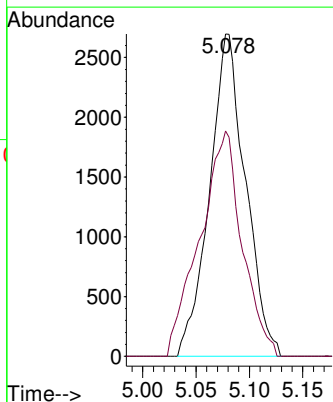
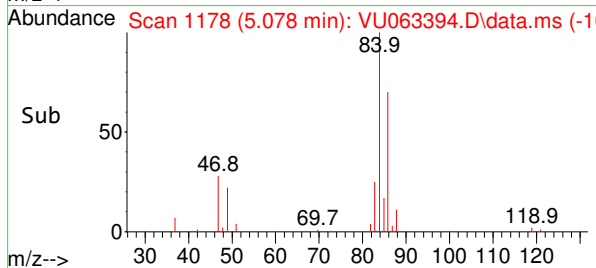
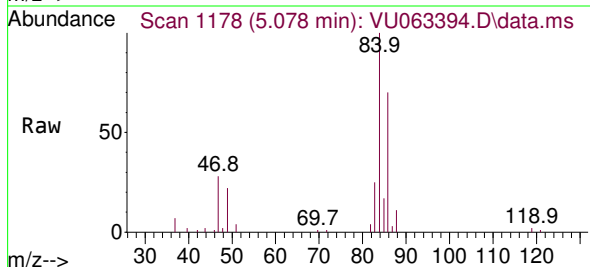
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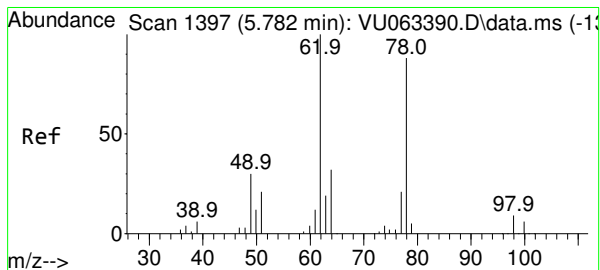
Reviewed By : John Carlone 06/17/2025
Supervised By : Mahesh Dadoda 06/17/2025



#25
Chloroform
Concen: 2.848 ug/L
RT: 5.078 min Scan# 1178
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 83 Resp: 6320
Ion Ratio Lower Upper
83 100
85 69.9 45.9 85.3





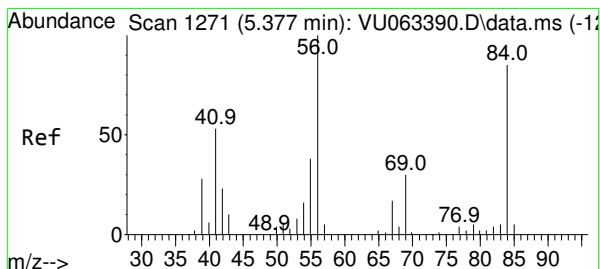
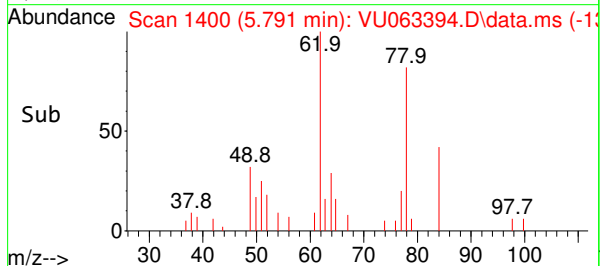
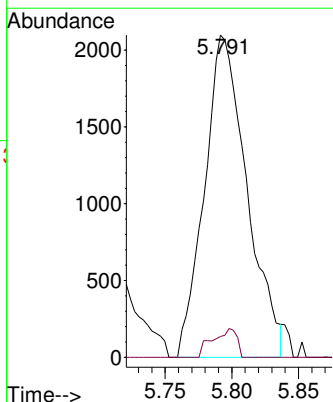
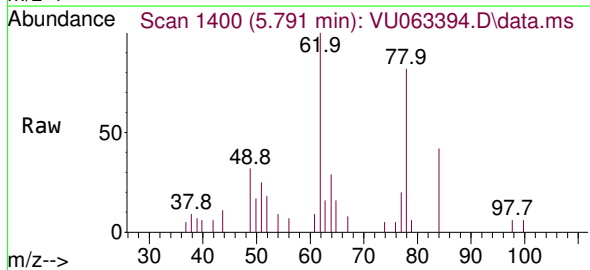
#27
1,2-Dichloroethane
Concen: 2.664 ug/L
RT: 5.791 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 62 Resp: 463
Ion Ratio Lower Upper
62 100
98 6.5 7.5 11.3

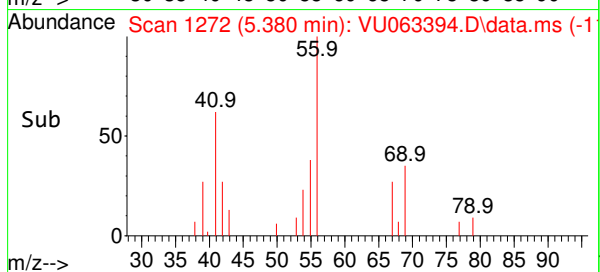
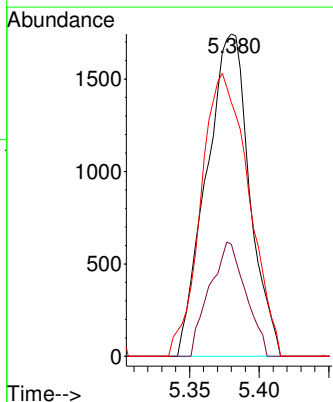
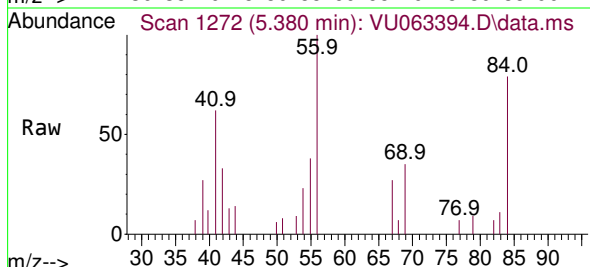
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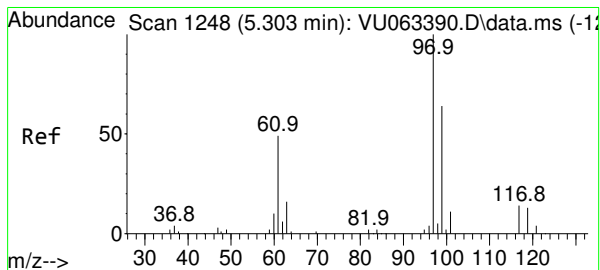
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#29
Cyclohexane
Concen: 1.998 ug/L
RT: 5.380 min Scan# 1272
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 56 Resp: 3758
Ion Ratio Lower Upper
56 100
69 29.6 24.2 36.4
84 96.9 67.2 100.8





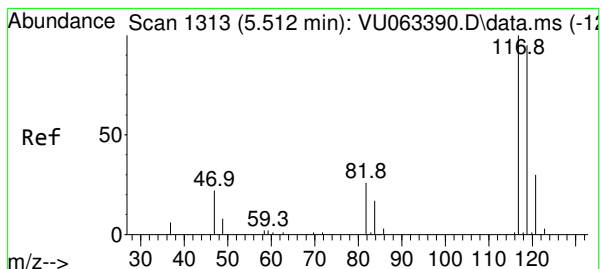
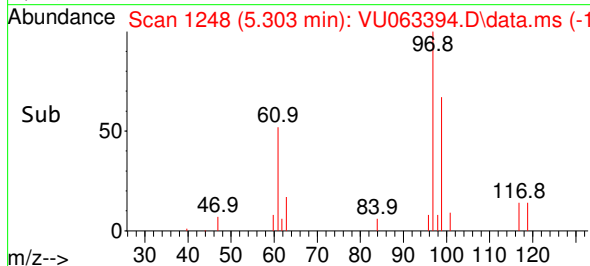
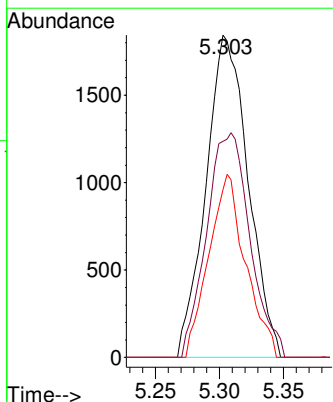
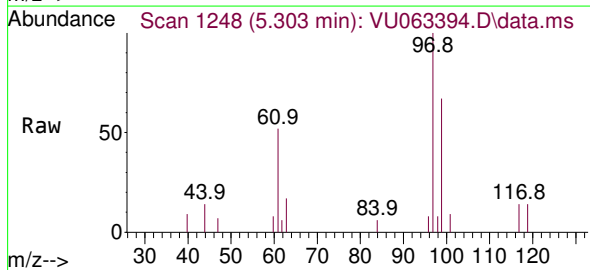
#30
1,1,1-Trichloroethane
Concen: 2.363 ug/L
RT: 5.303 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 97 Resp: 422
Ion Ratio Lower Upper
97 100
99 71.8 52.1 78.1
61 49.5 38.6 57.8

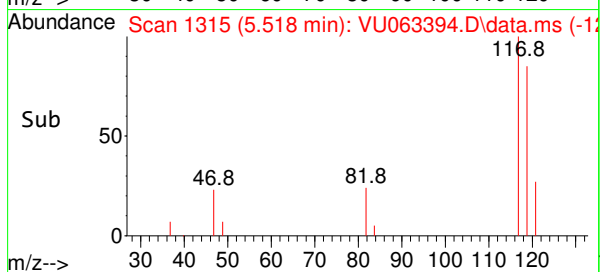
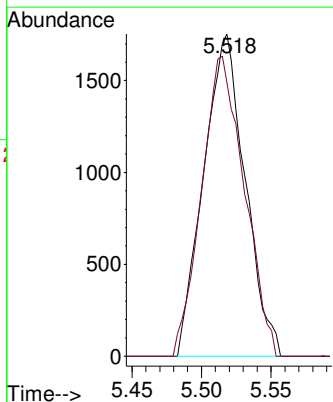
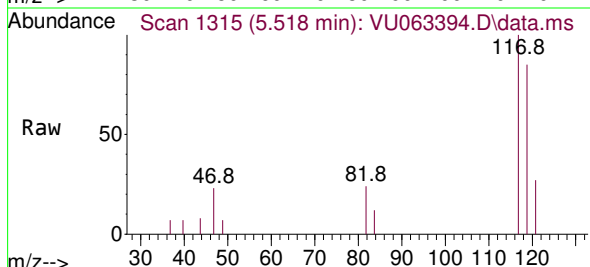
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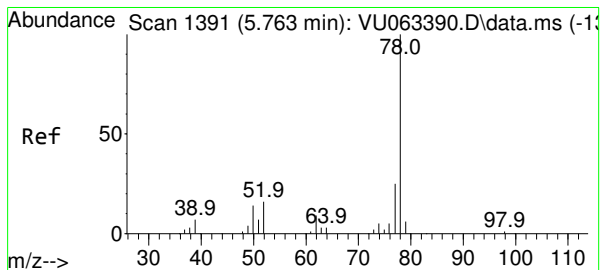
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#31
Carbon tetrachloride
Concen: 2.411 ug/L
RT: 5.518 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:117 Resp: 3628
Ion Ratio Lower Upper
117 100
119 95.9 76.3 114.5





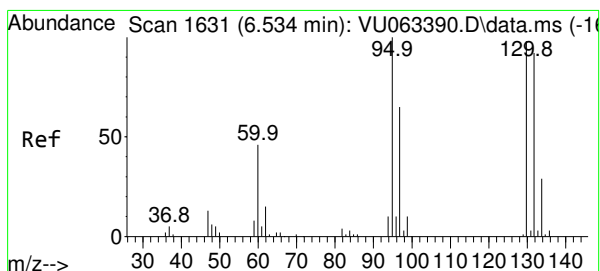
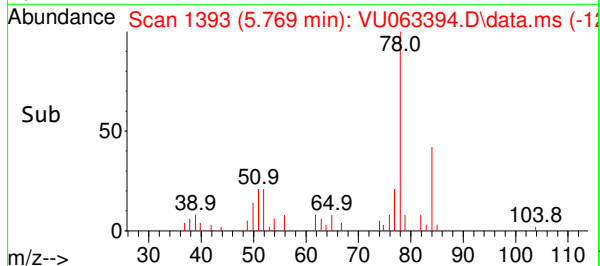
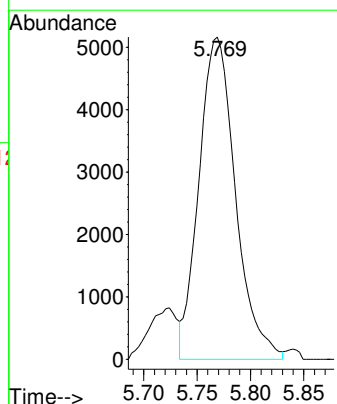
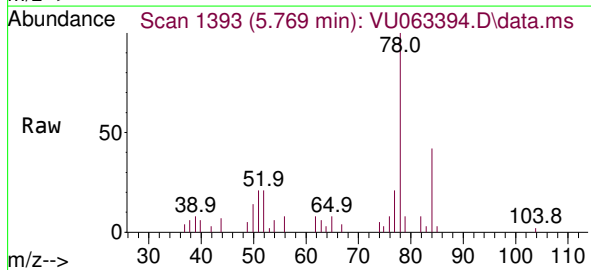
#33
Benzene
Concen: 2.499 ug/L
RT: 5.769 min Scan# 1
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 78 Resp: 1236

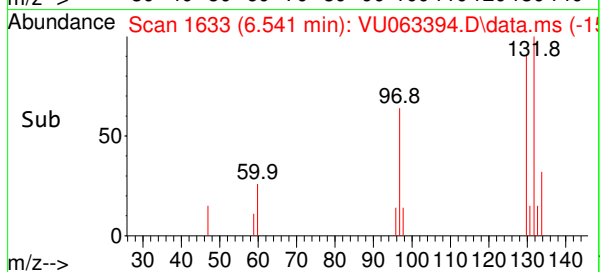
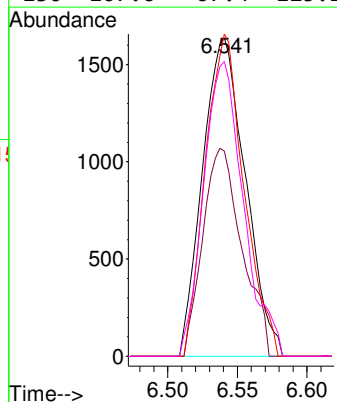
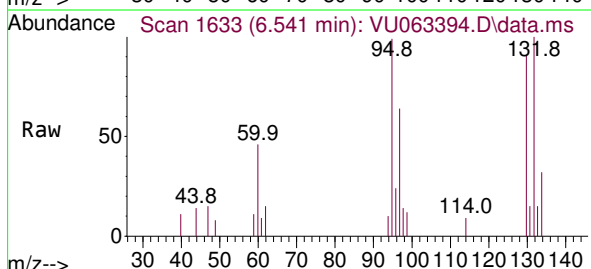
Manual Integrations
APPROVED

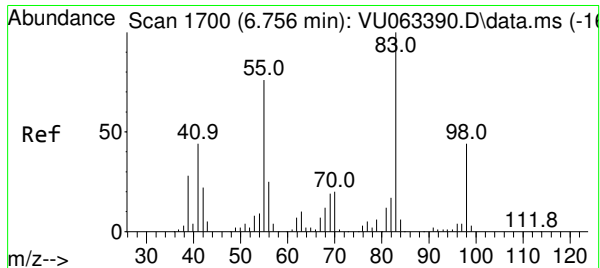
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#34
Trichloroethene
Concen: 2.761 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 95 Resp: 3495
Ion Ratio Lower Upper
95 100
97 79.1 44.6 82.8
132 116.4 65.3 121.3
130 107.6 67.4 125.2





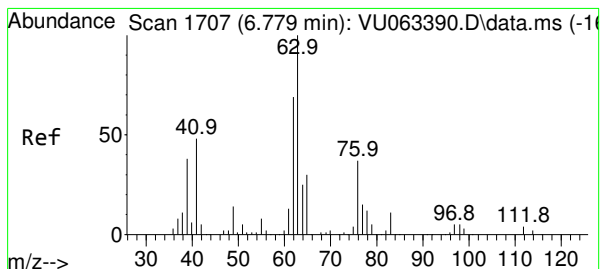
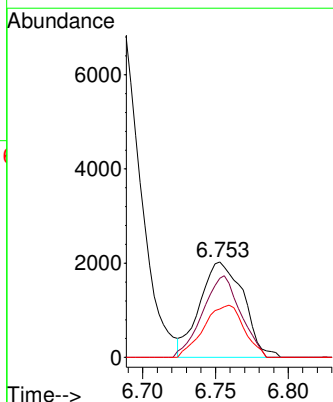
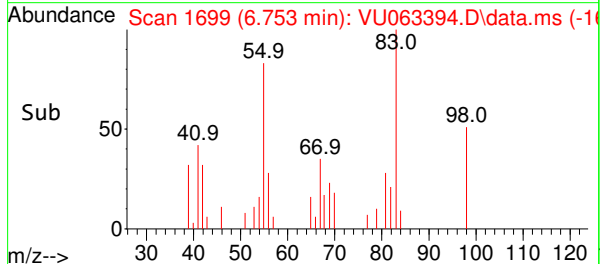
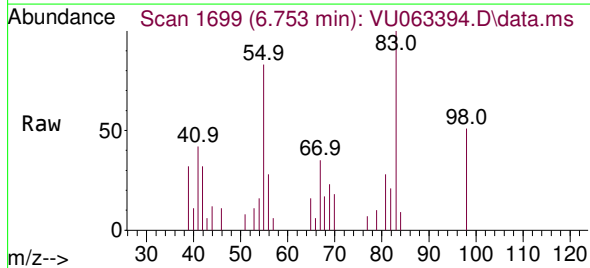
#35
Methylcyclohexane
Concen: 2.260 ug/L
RT: 6.753 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 83 Resp: 423
Ion Ratio Lower Upper
83 100
55 74.2 63.4 95.2
98 50.4 35.2 52.8

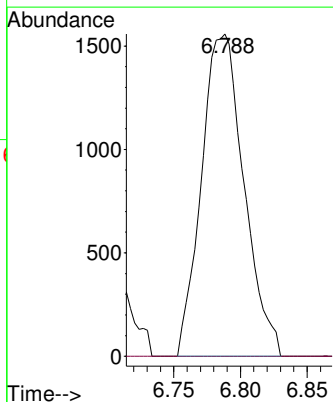
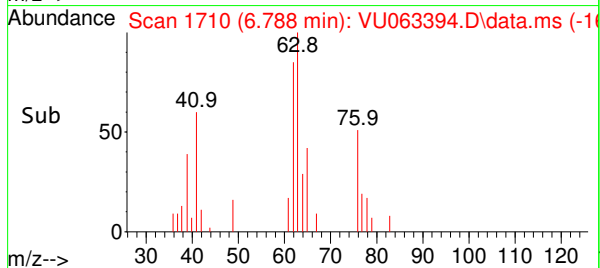
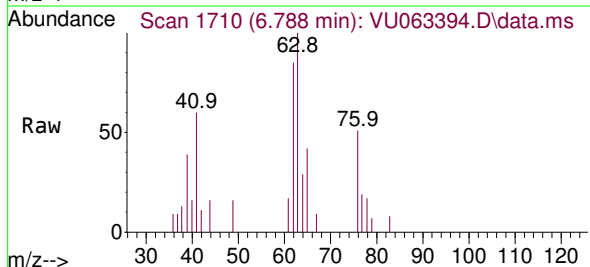
Manual Integrations
APPROVED

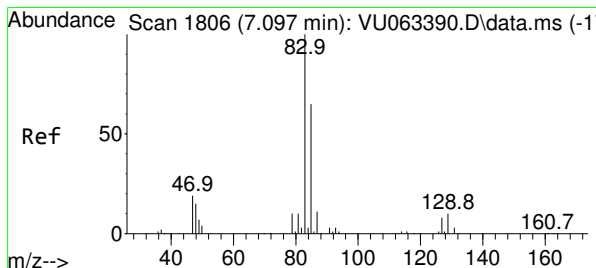
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#37
1,2-Dichloropropane
Concen: 2.362 ug/L
RT: 6.788 min Scan# 1710
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 63 Resp: 3450
Ion Ratio Lower Upper
63 100
112 0.0 2.9 4.3#





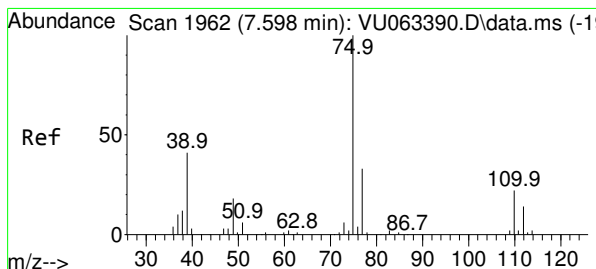
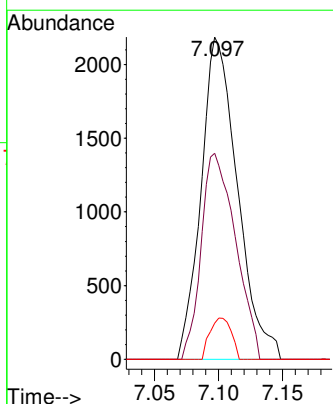
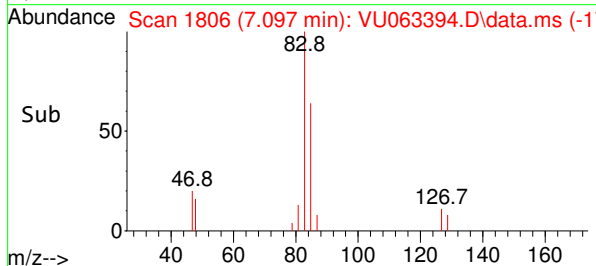
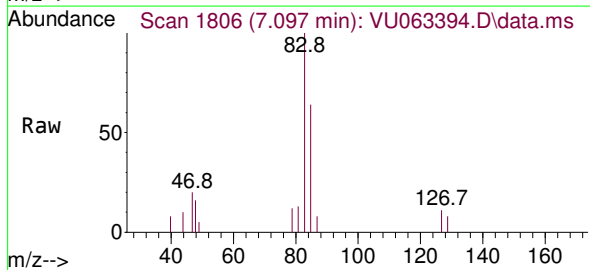
#38
Bromodichloromethane
Concen: 2.506 ug/L
RT: 7.097 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 83 Resp: 431
Ion Ratio Lower Upper
83 100
85 63.9 45.3 84.1
127 11.2 6.0 9.6

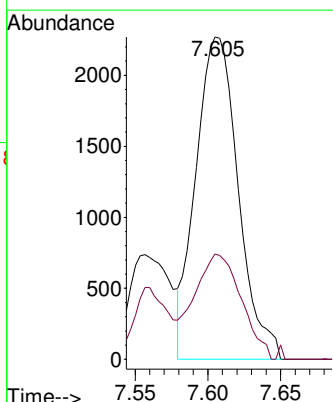
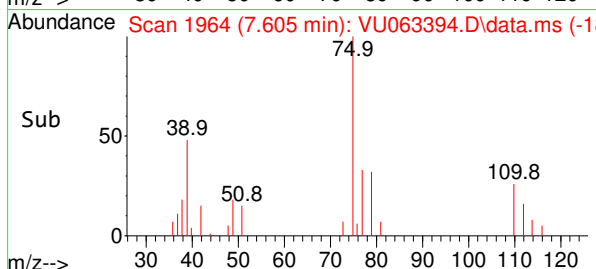
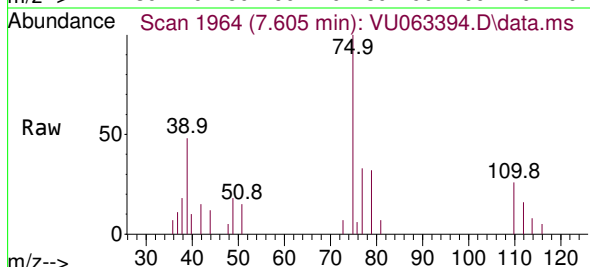
Manual Integrations
APPROVED

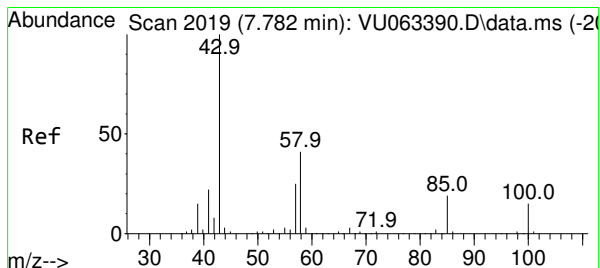
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#39
cis-1,3-Dichloropropene
Concen: 2.327 ug/L
RT: 7.605 min Scan# 1964
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 75 Resp: 4608
Ion Ratio Lower Upper
75 100
77 31.0 22.7 42.3





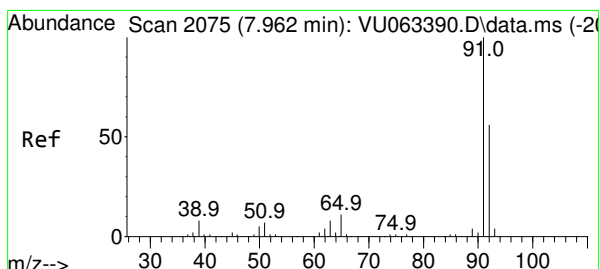
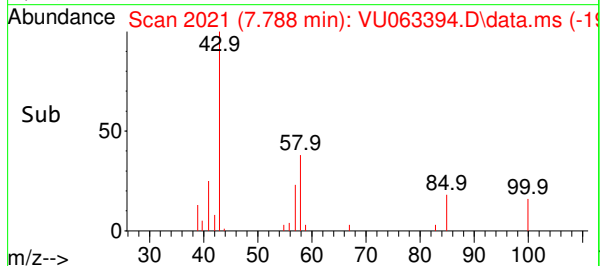
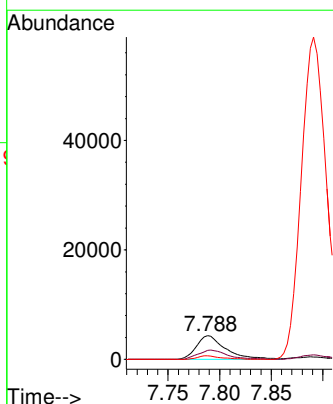
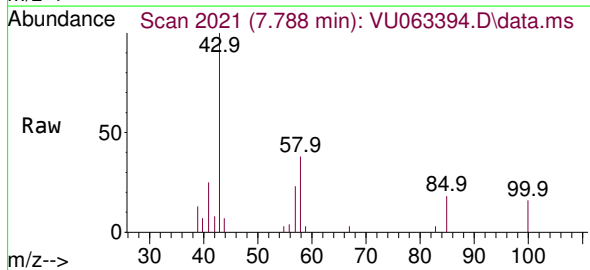
#40
4-Methyl-2-pentanone
Concen: 4.698 ug/L
RT: 7.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 43 Resp: 851
Ion Ratio Lower Upper
43 100
58 39.5 33.0 49.6
100 12.7 11.9 17.9

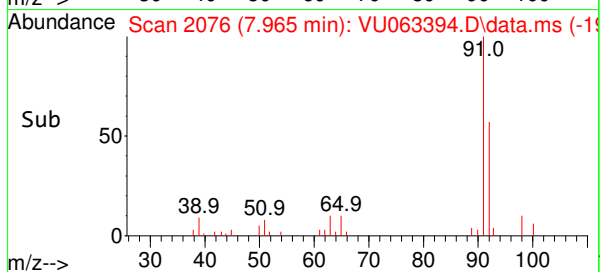
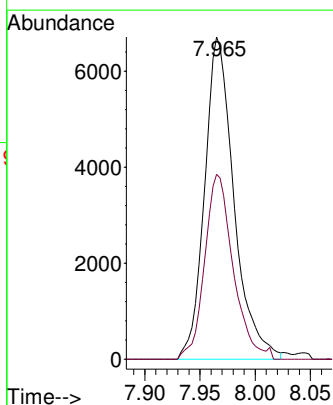
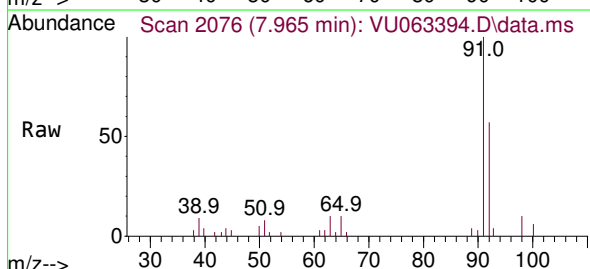
Manual Integrations
APPROVED

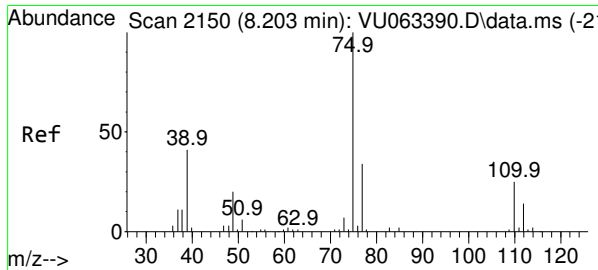
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#42
Toluene
Concen: 2.418 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 91 Resp: 12442
Ion Ratio Lower Upper
91 100
92 61.6 39.9 74.1





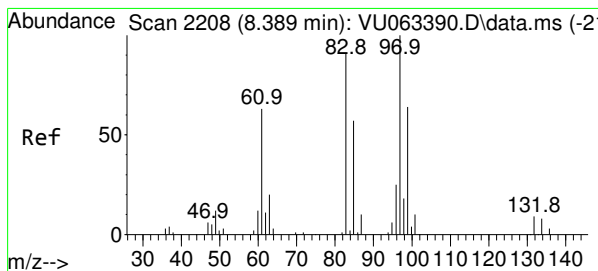
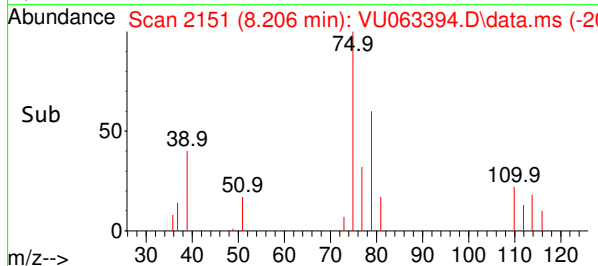
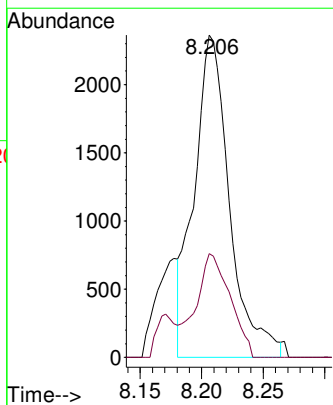
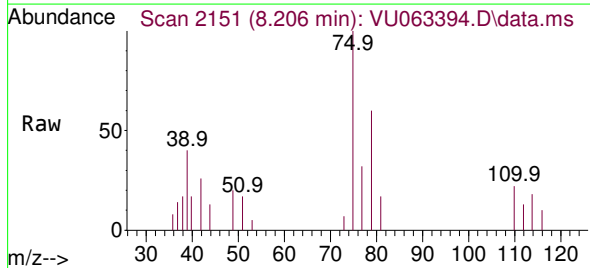
#44
trans-1,3-Dichloropropene
Concen: 2.542 ug/L
RT: 8.206 min Scan# 2150
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 75 Resp: 471
Ion Ratio Lower Upper
75 100
77 32.1 21.7 40.3

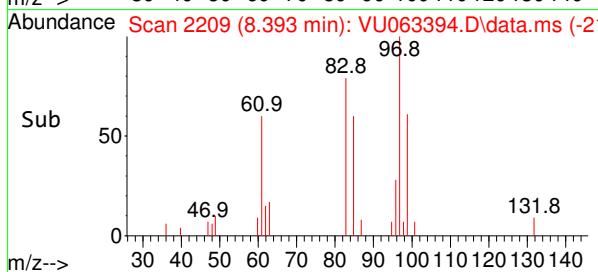
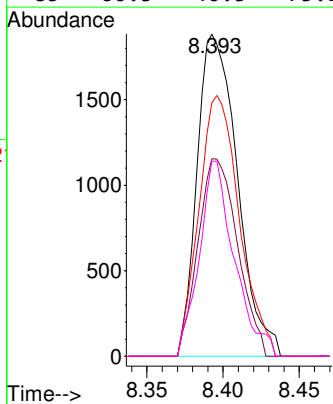
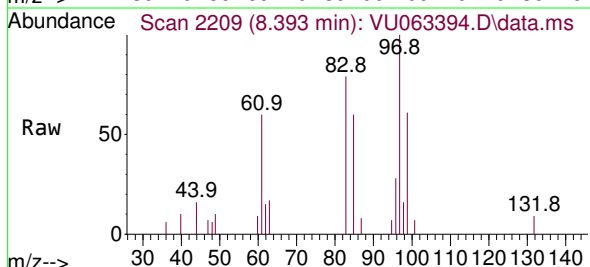
Manual Integrations
APPROVED

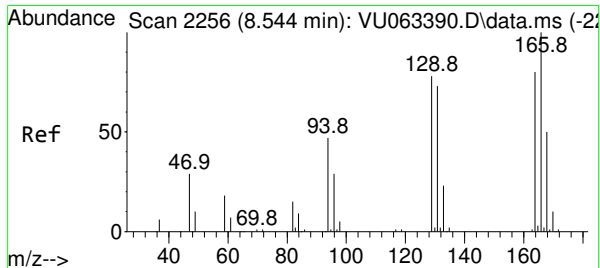
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#45
1,1,2-Trichloroethane
Concen: 2.587 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 97 Resp: 3459
Ion Ratio Lower Upper
97 100
99 61.2 44.4 82.4
83 78.6 63.3 117.5
85 60.5 40.5 75.1





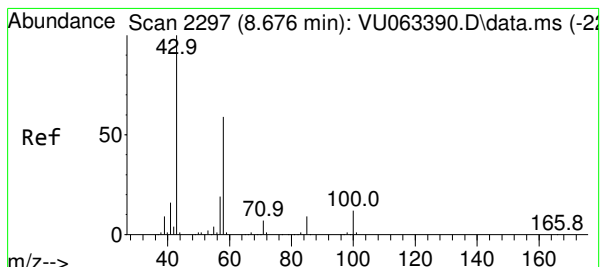
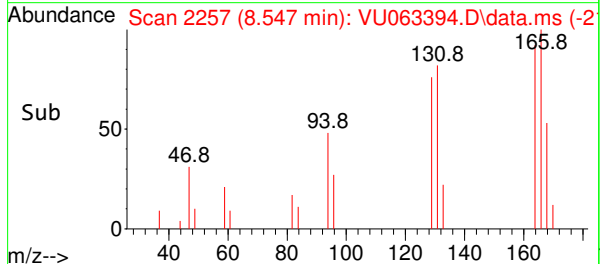
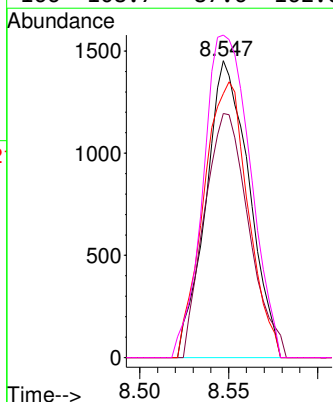
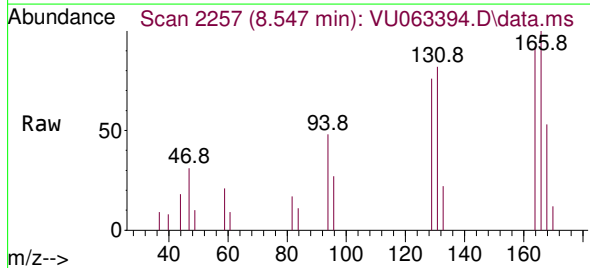
#46
Tetrachloroethene
Concen: 2.612 ug/L
RT: 8.547 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 164 Resp: 244
Ion Ratio Lower Upper
164 100
129 82.2 67.8 125.8
131 88.9 64.3 119.5
166 108.7 87.6 162.6

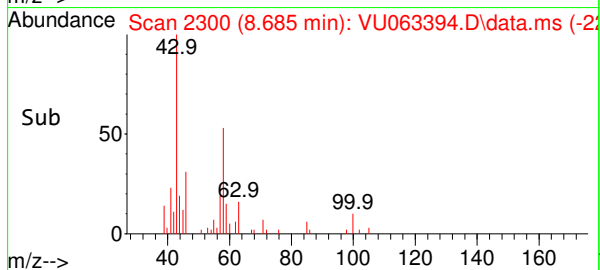
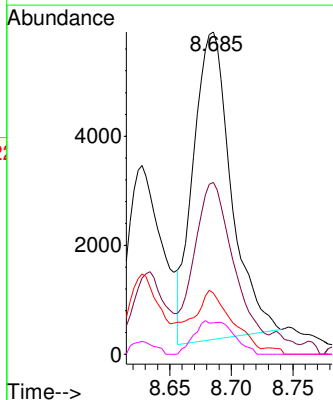
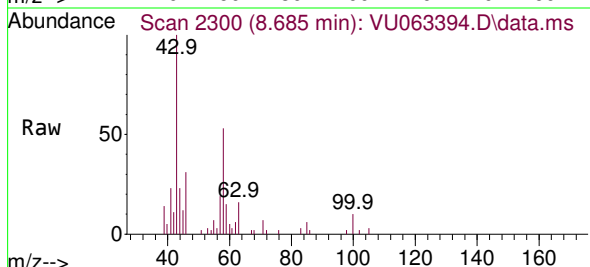
Manual Integrations
APPROVED

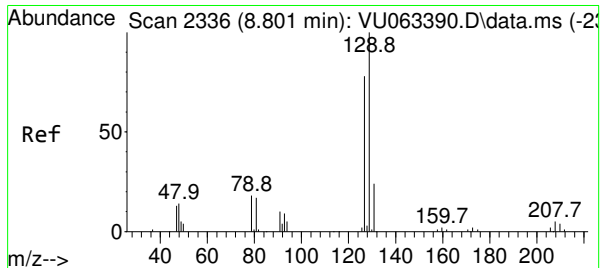
Reviewed By : John Carlone 06/17/2025
Supervised By : Mahesh Dadoda 06/17/2025



#48
2-Hexanone
Concen: 8.532 ug/L
RT: 8.685 min Scan# 2300
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion: 43 Resp: 12057
Ion Ratio Lower Upper
43 100
58 60.4 46.6 69.8
57 15.0 15.8 23.6#
100 4.8 9.0 13.4#





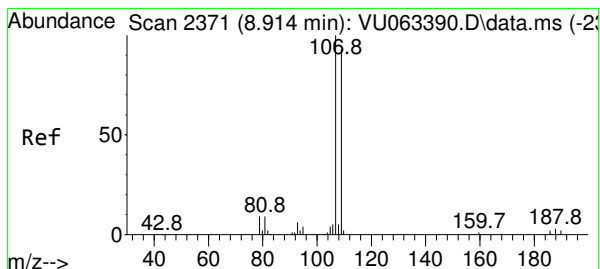
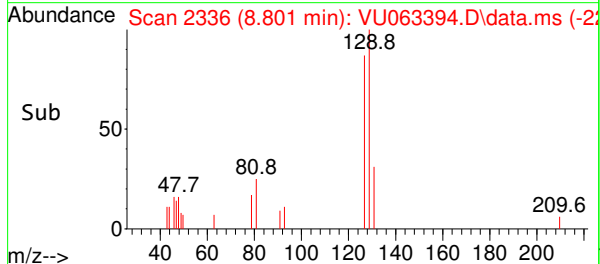
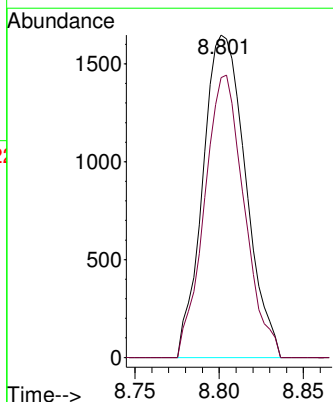
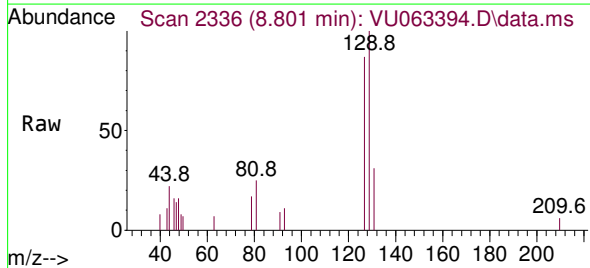
#49
Dibromochloromethane
Concen: 2.294 ug/L
RT: 8.801 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04

Tgt Ion:129 Resp: 291
Ion Ratio Lower Upper
129 100
127 86.8 54.0 100.4

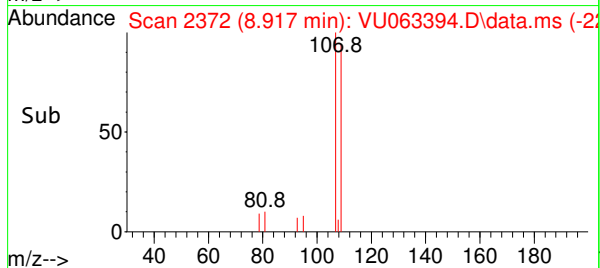
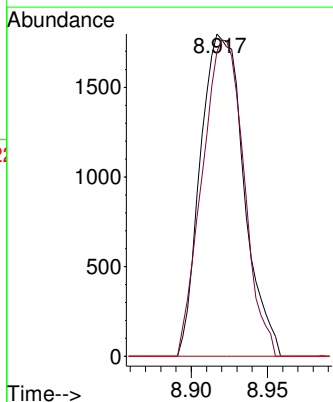
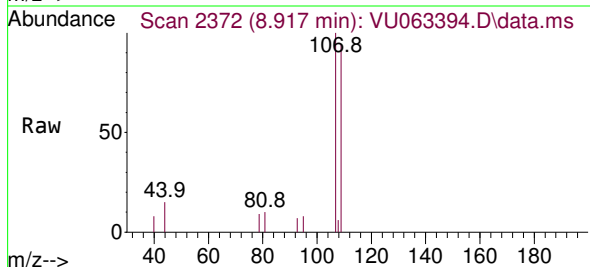
Manual Integrations
APPROVED

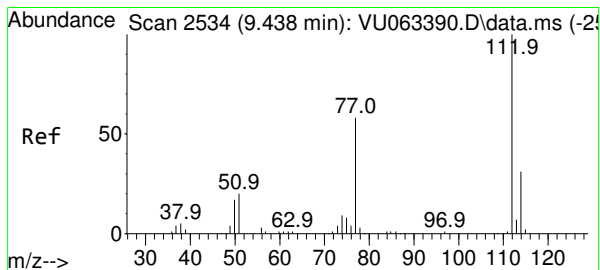
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#50
1,2-Dibromoethane
Concen: 2.601 ug/L
RT: 8.917 min Scan# 2372
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:107 Resp: 3554
Ion Ratio Lower Upper
107 100
109 94.5 65.2 121.0
188 0.0 2.5 3.7#





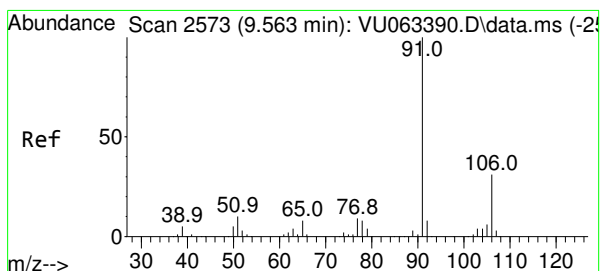
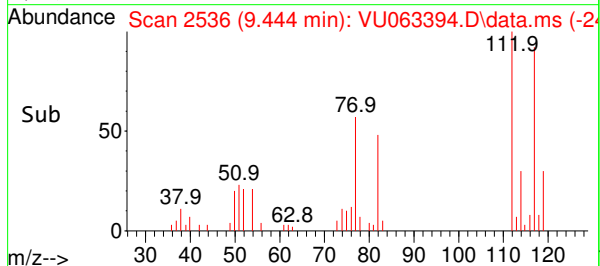
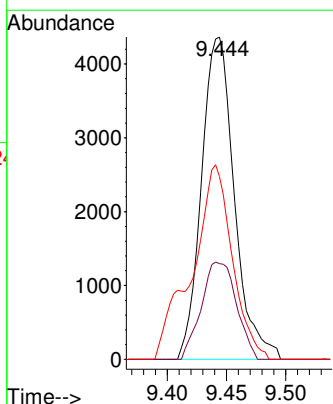
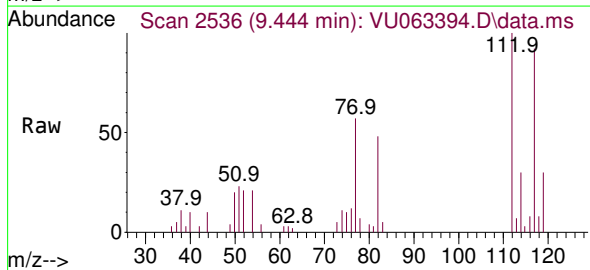
#51
Chlorobenzene
Concen: 2.523 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.3	41.5
77	56.7	48.7	73.1

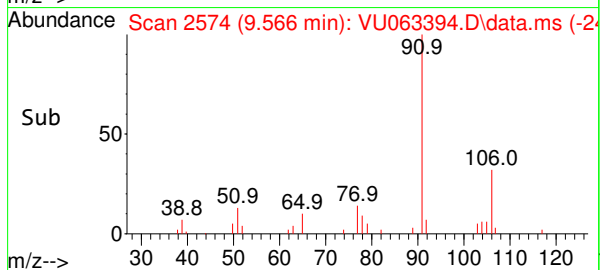
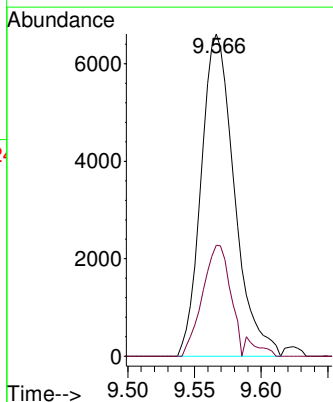
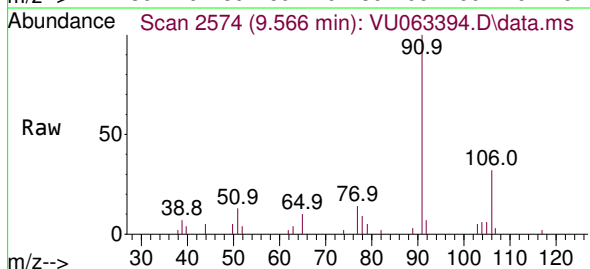
Manual Integrations
APPROVED

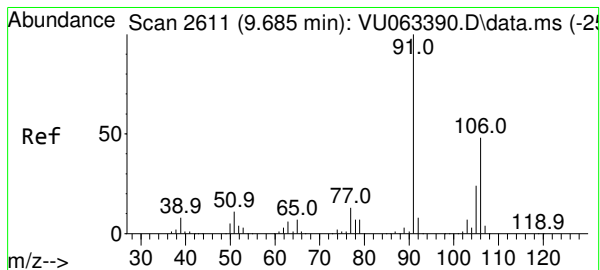
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#52
Ethylbenzene
Concen: 2.122 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.1	21.5	39.9





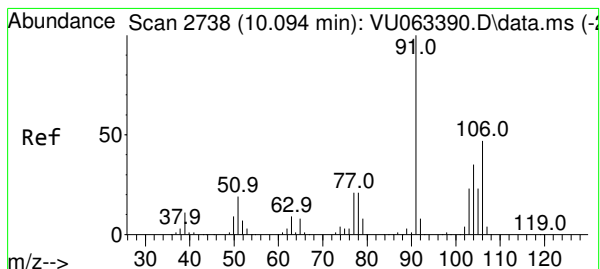
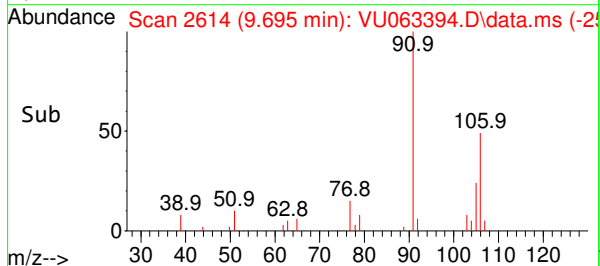
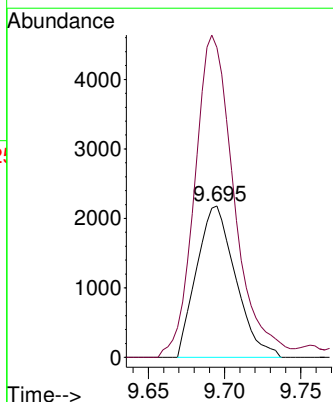
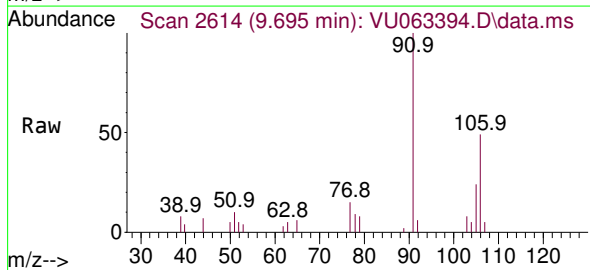
#53
m,p-Xylene
Concen: 1.940 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion:106 Resp: 386
Ion Ratio Lower Upper
106 100
91 186.9 147.3 273.6

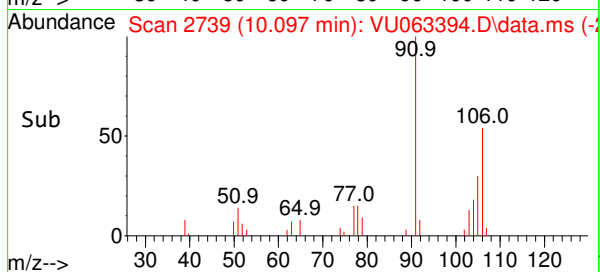
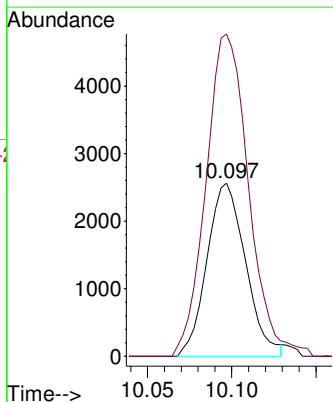
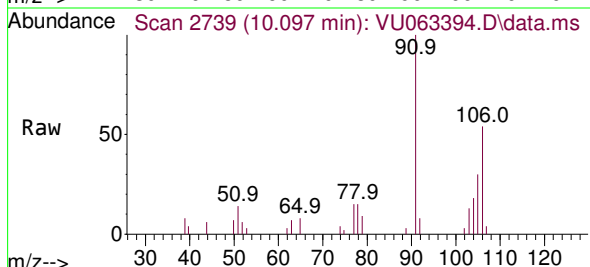
Manual Integrations
APPROVED

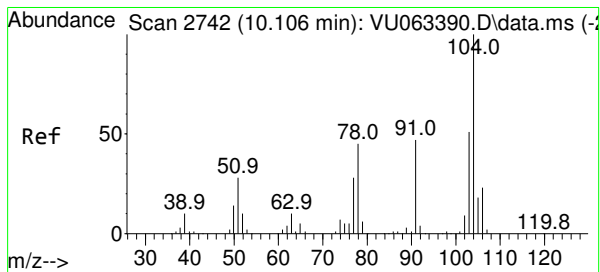
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#54
o-Xylene
Concen: 2.149 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:106 Resp: 4083
Ion Ratio Lower Upper
106 100
91 173.0 156.7 291.1





#55

Styrene

Concen: 1.833 ug/L

RT: 10.116 min Scan# 2

Delta R.T. 0.010 min

Lab File: VU063394.D

Acq: 12 Jun 2025 12:13

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT2-2025-04

Tgt Ion: 104 Resp: 598

Ion Ratio Lower Upper

104 100

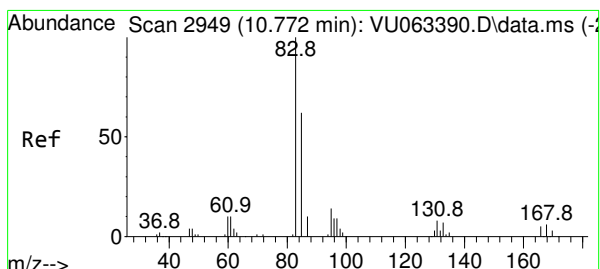
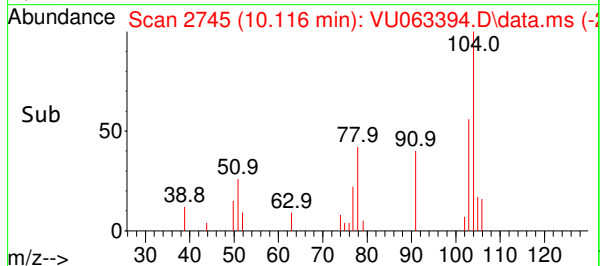
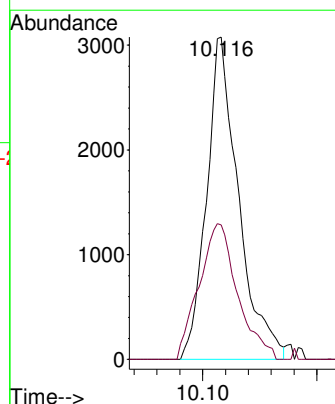
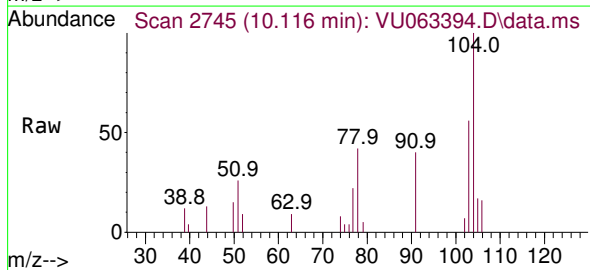
78 41.7 32.4 60.2

Manual Integrations

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Reviewed By : John Carlone 06/17/2025

Supervised By : Mahesh Dadoda 06/17/2025



#57

1,1,2,2-Tetrachloroethane

Concen: 2.620 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VU063394.D

Acq: 12 Jun 2025 12:13

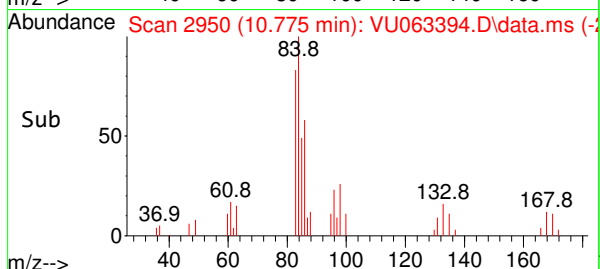
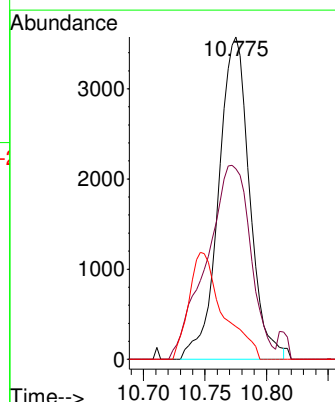
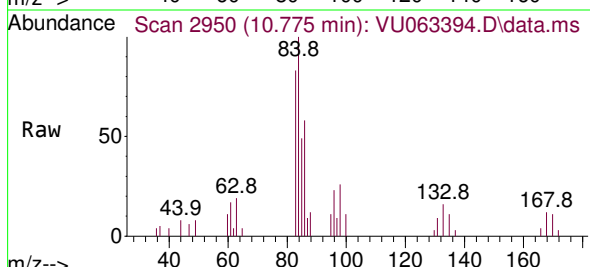
Tgt Ion: 83 Resp: 6260

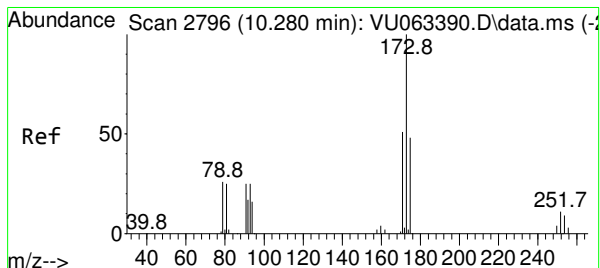
Ion Ratio Lower Upper

83 100

85 59.1 45.6 84.8

131 10.2 7.1 10.7





#59

Bromoform

Concen: 2.666 ug/L

RT: 10.286 min Scan# 2

Delta R.T. 0.006 min

Lab File: VU063394.D

Acq: 12 Jun 2025 12:13

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT2-2025-04

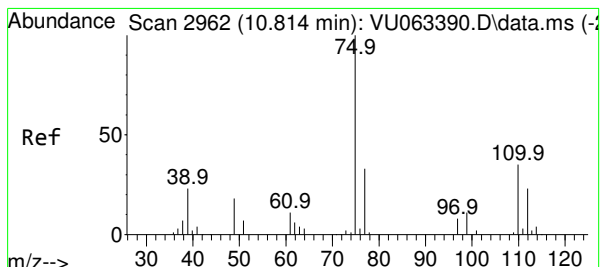
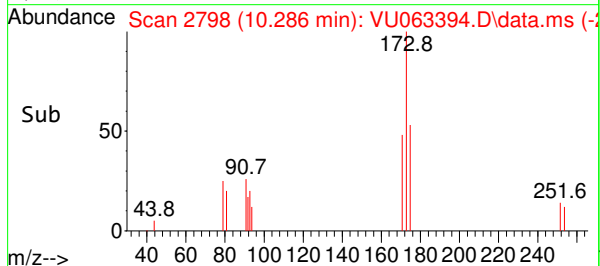
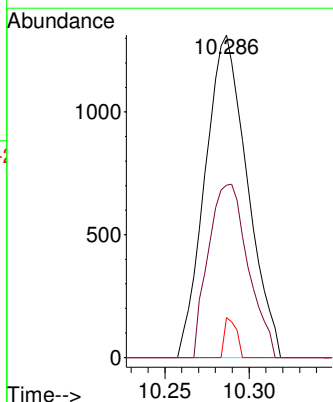
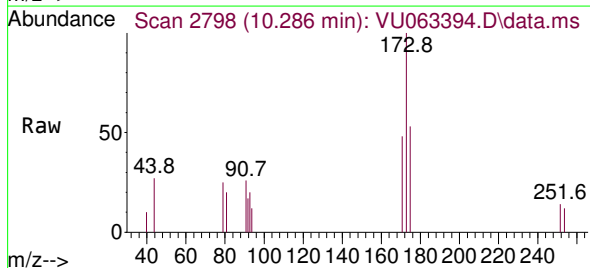
Tgt Ion:	173	Resp:	228
Ion	Ratio	Lower	Upper
173	100		
175	50.5	38.6	57.8
254	3.5	7.8	11.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#60

1,2,3-Trichloropropane

Concen: 3.078 ug/L

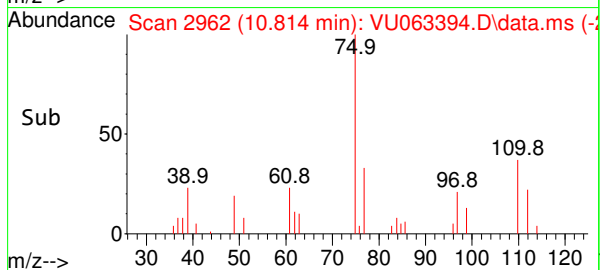
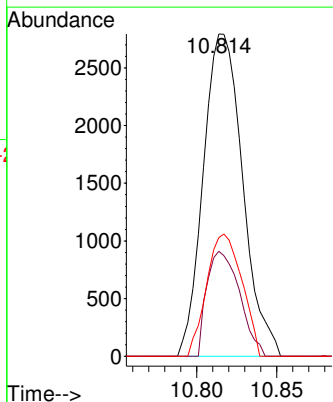
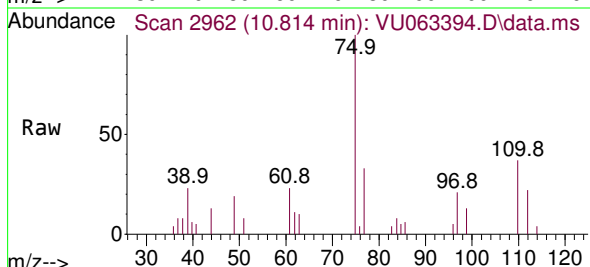
RT: 10.814 min Scan# 2962

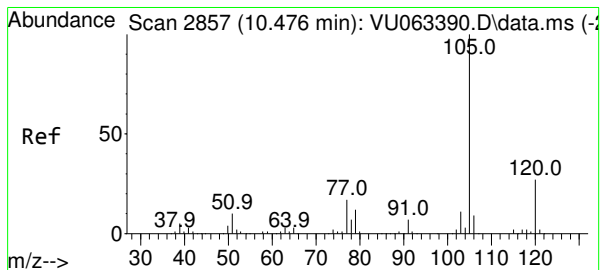
Delta R.T. 0.000 min

Lab File: VU063394.D

Acq: 12 Jun 2025 12:13

Tgt Ion:	75	Resp:	4790
Ion	Ratio	Lower	Upper
75	100		
77	27.1	25.9	38.9
110	34.0	27.8	41.8





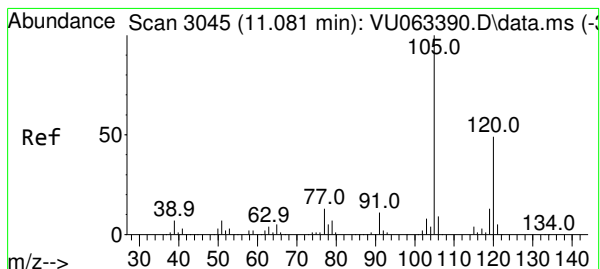
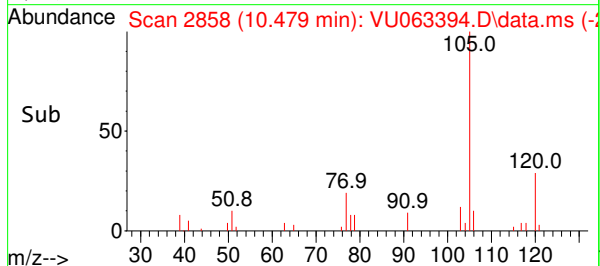
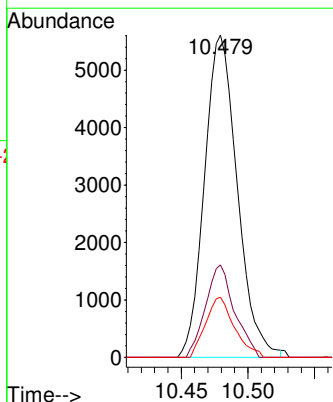
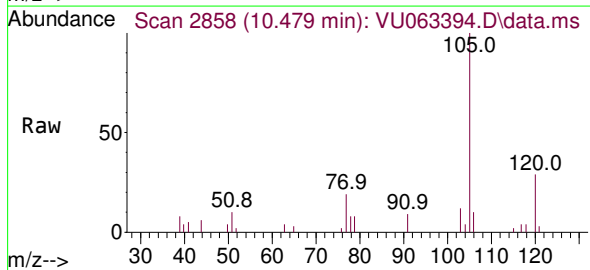
#61
Isopropylbenzene
Concen: 2.241 ug/L
RT: 10.479 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion:105 Resp: 957
Ion Ratio Lower Upper
105 100
120 25.4 20.6 31.6
77 16.4 13.0 19.4

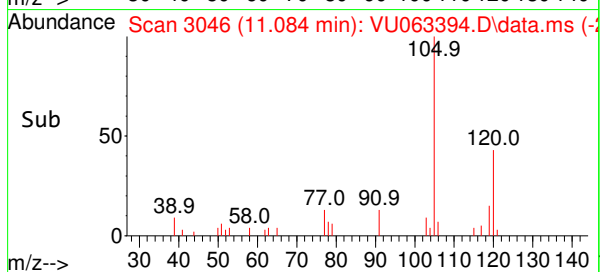
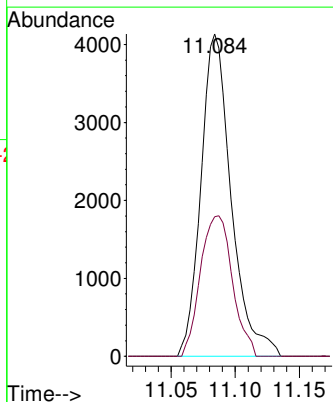
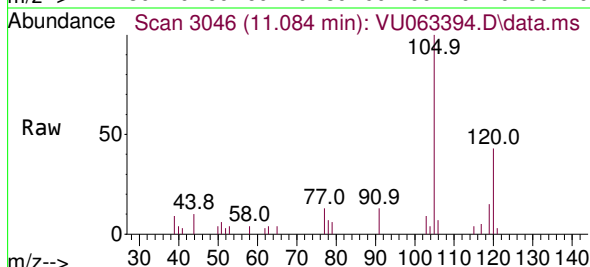
Manual Integrations
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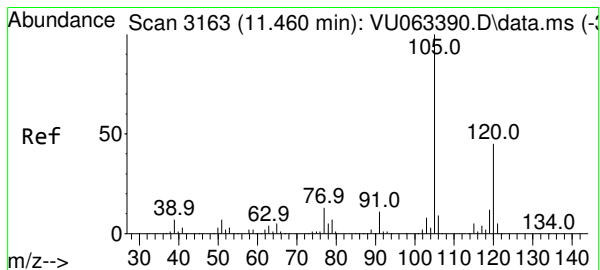
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#62
1,3,5-Trimethylbenzene
Concen: 2.057 ug/L
RT: 11.084 min Scan# 3046
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:105 Resp: 6796
Ion Ratio Lower Upper
105 100
120 46.1 37.9 56.9





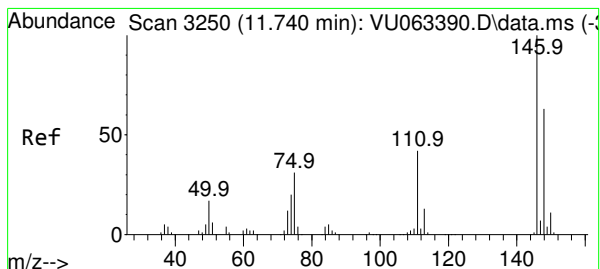
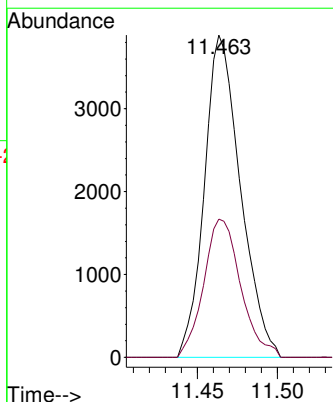
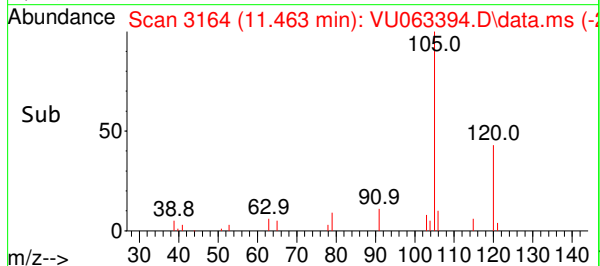
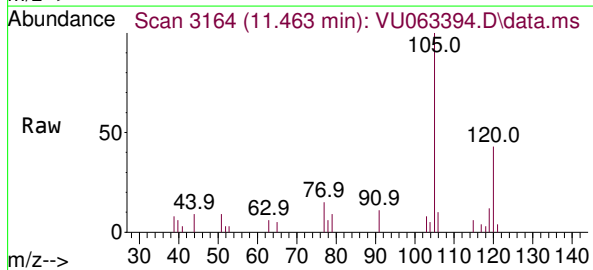
#63
1,2,4-Trimethylbenzene
Concen: 1.947 ug/L
RT: 11.463 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion:105 Resp: 611
Ion Ratio Lower Upper
105 100
120 44.1 35.4 53.2

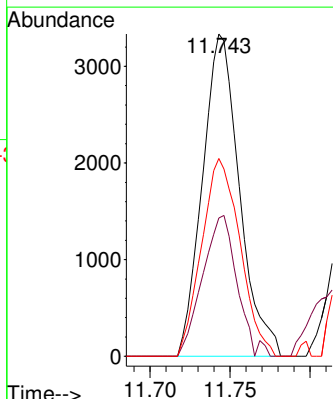
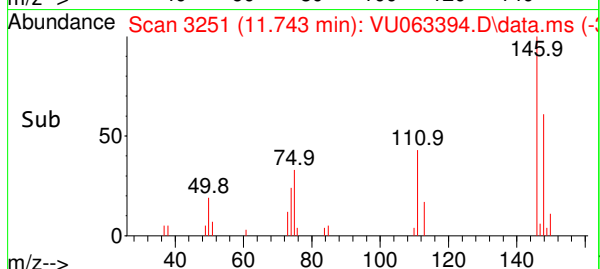
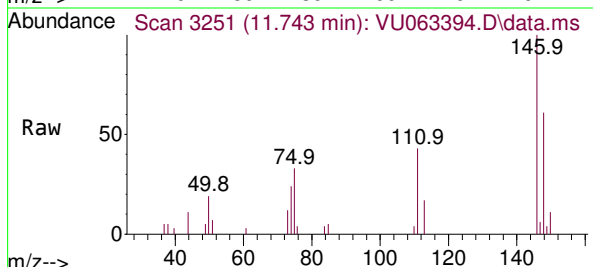
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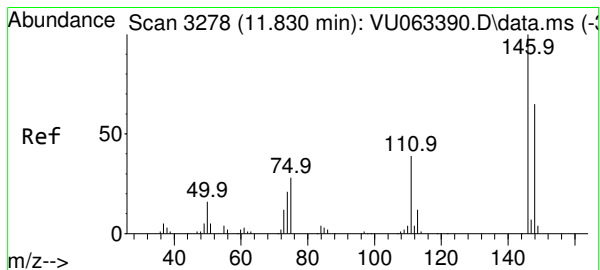
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#64
1,3-Dichlorobenzene
Concen: 2.525 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.003 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:146 Resp: 5357
Ion Ratio Lower Upper
146 100
111 40.3 29.2 54.2
148 61.0 45.8 85.2





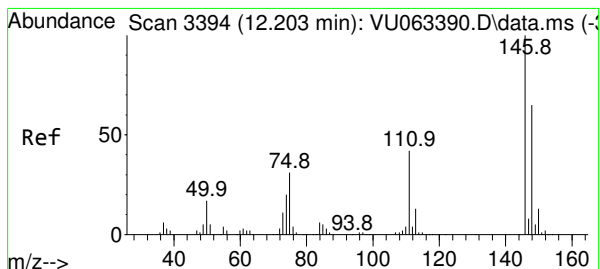
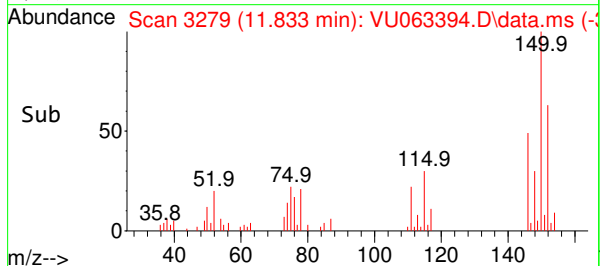
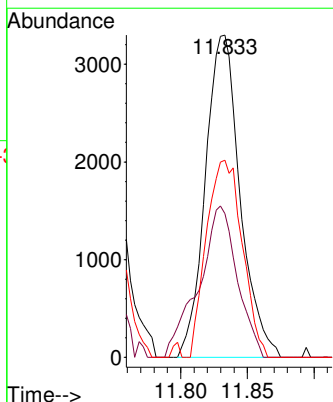
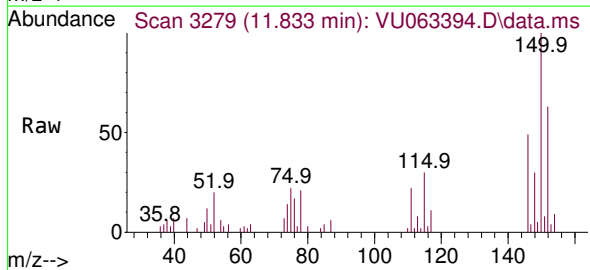
#65
 1,4-Dichlorobenzene
 Concen: 2.741 ug/L
 RT: 11.833 min Scan# 3278
 Delta R.T. 0.003 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04

Tgt Ion:146 Resp: 597
 Ion Ratio Lower Upper
 146 100
 111 41.2 27.5 51.1
 148 65.1 44.7 82.9

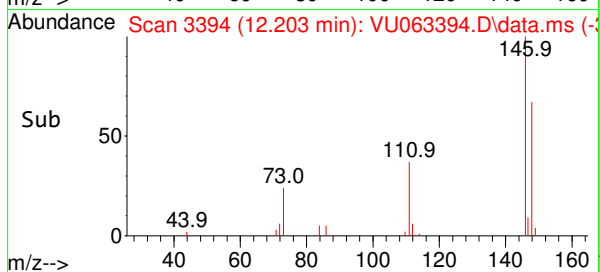
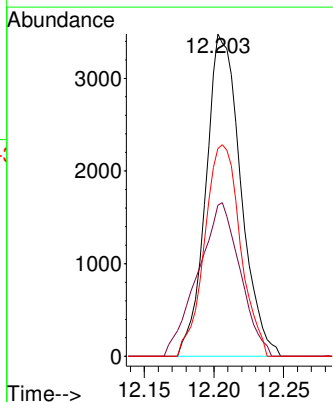
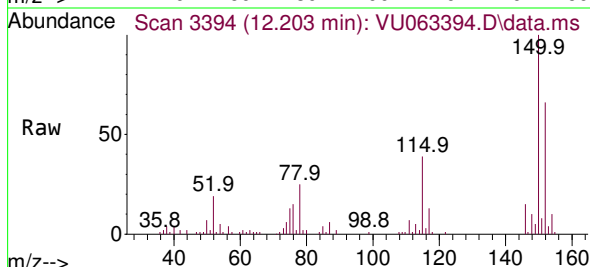
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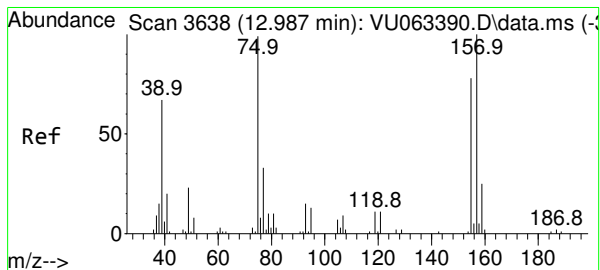
Reviewed By :John Carlone 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025



#67
 1,2-Dichlorobenzene
 Concen: 2.821 ug/L
 RT: 12.203 min Scan# 3394
 Delta R.T. 0.000 min
 Lab File: VU063394.D
 Acq: 12 Jun 2025 12:13

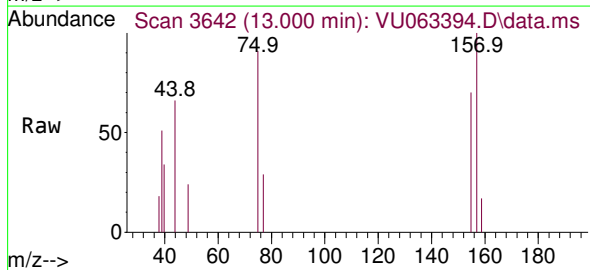
Tgt Ion:146 Resp: 6043
 Ion Ratio Lower Upper
 146 100
 111 46.9 34.7 52.1
 148 64.5 51.3 76.9





#68
1,2-Dibromo-3-chloropropane
Concen: 2.399 ug/L
RT: 13.000 min Scan# 3711
Delta R.T. 0.013 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

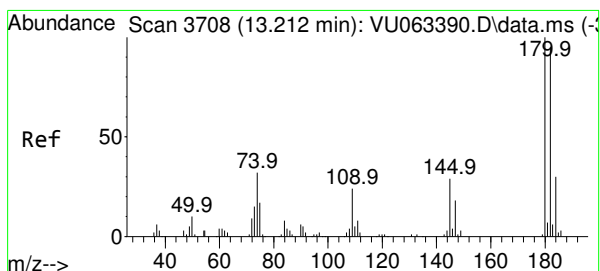
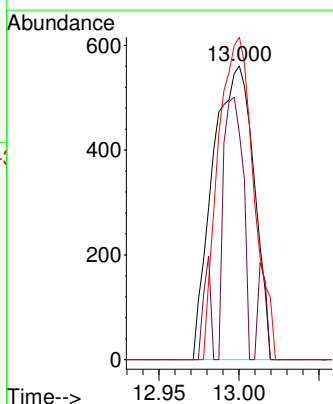
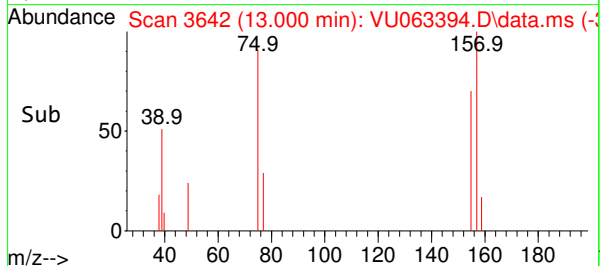
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT2-2025-04



Tgt Ion: 75 Resp: 100
Ion Ratio Lower Upper
75 100
155 77.2 68.4 102.6
157 109.8 84.2 126.4

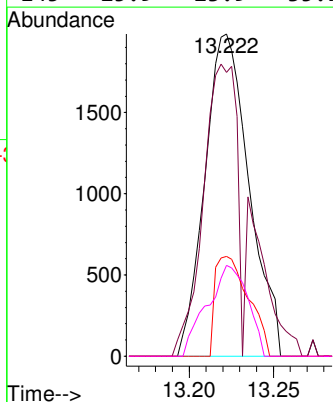
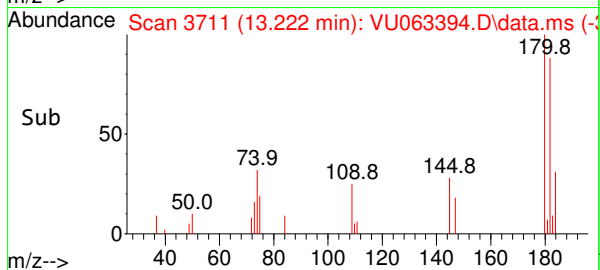
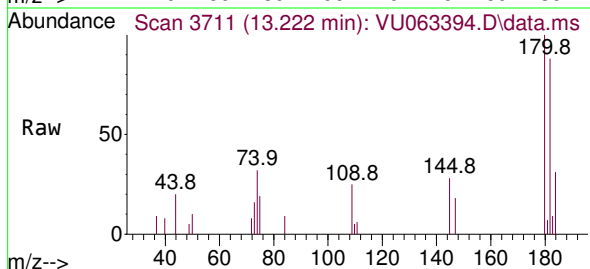
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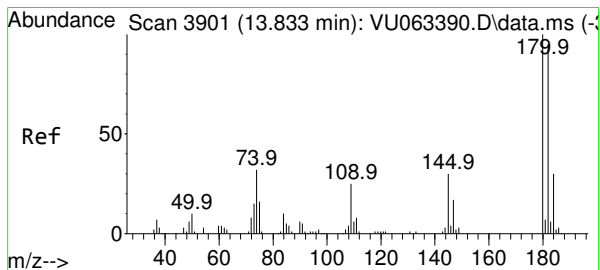
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#69
1,3,5-Trichlorobenzene
Concen: 2.522 ug/L
RT: 13.222 min Scan# 3711
Delta R.T. 0.010 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:180 Resp: 3623
Ion Ratio Lower Upper
180 100
182 50.5 77.2 115.8#
184 23.4 24.3 36.5#
145 25.9 23.9 35.9





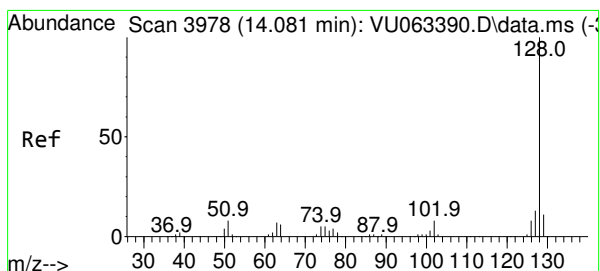
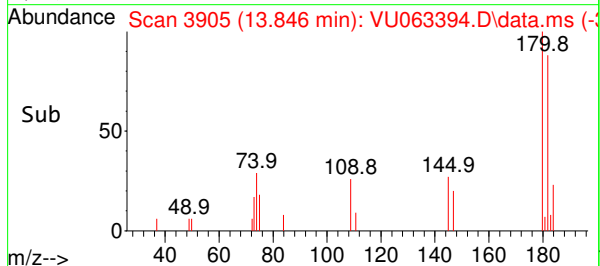
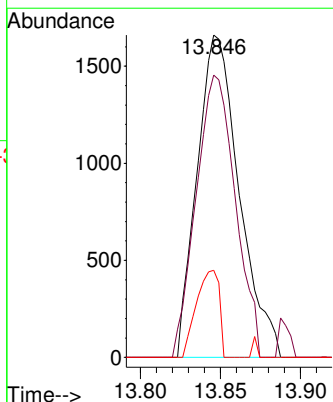
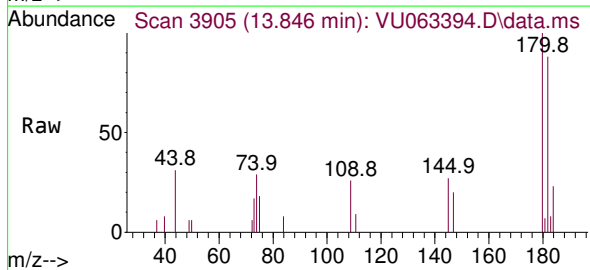
#70
1,2,4-trichlorobenzene
Concen: 2.725 ug/L
RT: 13.846 min Scan# 3905
Delta R.T. 0.013 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion:180 Resp: 303
Ion Ratio Lower Upper
180 100
182 81.7 75.8 113.8
145 14.6 24.0 36.0

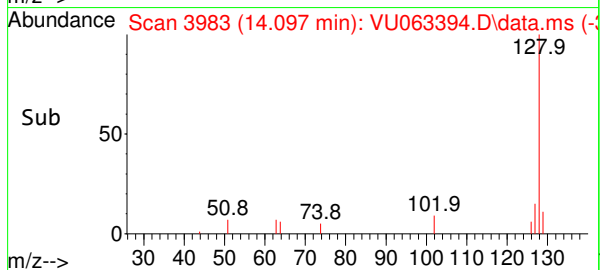
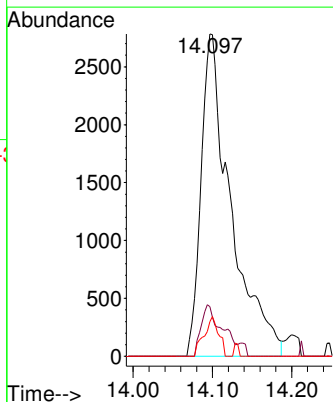
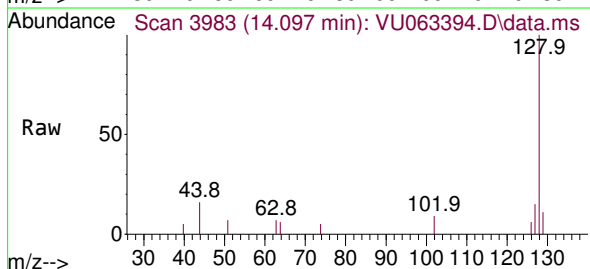
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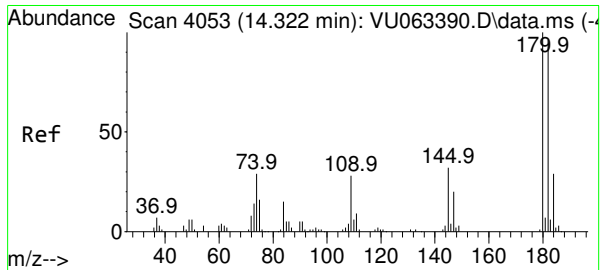
Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025



#71
Naphthalene
Concen: 2.408 ug/L m
RT: 14.097 min Scan# 3983
Delta R.T. 0.016 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Tgt Ion:128 Resp: 7243
Ion Ratio Lower Upper
128 100
127 9.2 10.2 15.4#
129 6.0 8.6 12.8#





#72
1,2,3-Trichlorobenzene
Concen: 2.410 ug/L
RT: 14.328 min Scan# 4
Delta R.T. 0.006 min
Lab File: VU063394.D
Acq: 12 Jun 2025 12:13

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT2-2025-04

Tgt Ion:180 Resp: 266
Ion Ratio Lower Upper
180 100
182 88.0 77.3 115.9
145 25.1 25.7 38.5

Manual Integrations
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Reviewed By :John Carlone 06/17/2025
Supervised By :Mahesh Dadoda 06/17/2025

