

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023218.D
 Acq On : 28 Aug 2025 11:59
 Operator : SY/MD
 Sample : Q2893-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2025

Quant Time: Aug 29 02:54:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 29 02:54:27 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	407087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	662624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	562199	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.347	152	269924	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	204556	52.723	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.440%	
35) Dibromofluoromethane	7.634	113	212323	53.550	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.100%	
50) Toluene-d8	10.109	98	779415	50.319	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.640%	
62) 4-Bromofluorobenzene	12.408	95	232451	46.664	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 93.320%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.867	85	9405	2.830	ug/l	93
3) Chloromethane	2.074	50	13701	2.546	ug/l	98
4) Vinyl Chloride	2.208	62	17346	2.607	ug/l	95
5) Bromomethane	2.598	94	17071	3.436	ug/l	92
6) Chloroethane	2.745	64	12068	2.728	ug/l	89
7) Trichlorofluoromethane	3.068	101	22508	2.782	ug/l	96
8) Diethyl Ether	3.452	74	6673	3.118	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.818	101	12640	3.167	ug/l	94
10) Methyl Iodide	4.007	142	11491	2.668	ug/l	95
11) Tert butyl alcohol	4.866	59	2651	9.972	ug/l #	71
12) 1,1-Dichloroethene	3.793	96	11563	2.948	ug/l #	80
13) Acrolein	3.659	56	691	1.775	ug/l #	61
14) Allyl chloride	4.397	41	14500	2.512	ug/l	98
15) Acrylonitrile	5.068	53	12260	14.090	ug/l	99
16) Acetone	3.873	43	15441	18.370	ug/l	98
17) Carbon Disulfide	4.110	76	30836	2.411	ug/l	99
18) Methyl Acetate	4.391	43	7968	3.186	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	25421	2.501	ug/l	95
20) Methylene Chloride	4.616	84	19246	3.814	ug/l	93
21) trans-1,2-Dichloroethene	5.122	96	11997	2.721	ug/l	86
22) Diisopropyl ether	6.025	45	29209	2.329	ug/l #	88
23) Vinyl Acetate	5.970	43	72771	10.492	ug/l	98
24) 1,1-Dichloroethane	5.921	63	20858	2.720	ug/l	99
25) 2-Butanone	6.903	43	16626	14.544	ug/l	98
26) 2,2-Dichloropropane	6.890	77	18757	2.835	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	14358	2.817	ug/l	92
28) Bromochloromethane	7.244	49	8504	2.795	ug/l	90
29) Tetrahydrofuran	7.268	42	9107	12.852	ug/l	95
30) Chloroform	7.427	83	22807	2.884	ug/l	99
31) Cyclohexane	7.707	56	23748	3.286	ug/l #	58
32) 1,1,1-Trichloroethane	7.622	97	19563	2.788	ug/l	99
36) 1,1-Dichloropropene	7.841	75	15411	2.615	ug/l	97
37) Ethyl Acetate	6.994	43	6060	2.448	ug/l #	95
38) Carbon Tetrachloride	7.823	117	17993	2.811	ug/l	90
39) Methylcyclohexane	9.116	83	20135	2.595	ug/l	97
40) Benzene	8.085	78	48762	2.685	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	2403	1.682	ug/l #	60
42) 1,2-Dichloroethane	8.165	62	13467	2.851	ug/l	99
43) Isopropyl Acetate	8.201	43	12730	2.545	ug/l	93
44) Trichloroethene	8.872	130	14338	3.055	ug/l	97
45) 1,2-Dichloropropane	9.146	63	11011	2.635	ug/l	99
46) Dibromomethane	9.231	93	6455	2.691	ug/l	97
47) Bromodichloromethane	9.426	83	16578	2.686	ug/l #	96
48) Methyl methacrylate	9.231	41	5850	2.444	ug/l	92
49) 1,4-Dioxane	9.231	88	1620	57.605	ug/l	90
51) 4-Methyl-2-Pentanone	10.000	43	27228	10.551	ug/l	97
52) Toluene	10.176	92	30715	2.663	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	13453	2.407	ug/l	93
54) cis-1,3-Dichloropropene	9.859	75	16138	2.442	ug/l	91
55) 1,1,2-Trichloroethane	10.579	97	8724	2.718	ug/l	94
56) Ethyl methacrylate	10.438	69	8658	2.108	ug/l	98
57) 1,3-Dichloropropane	10.719	76	14797	2.719	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	17098	8.826	ug/l	97
59) 2-Hexanone	10.762	43	19819	11.279	ug/l	97
60) Dibromochloromethane	10.914	129	11432	2.700	ug/l	100
61) 1,2-Dibromoethane	11.018	107	8158	2.704	ug/l	98
64) Tetrachloroethene	10.646	164	16731	3.333	ug/l	97
65) Chlorobenzene	11.444	112	35639	2.939	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	11270	2.738	ug/l	93
67) Ethyl Benzene	11.524	91	53631	2.570	ug/l	97
68) m/p-Xylenes	11.627	106	40412	4.958	ug/l	94
69) o-Xylene	11.957	106	18631	2.441	ug/l	96
70) Styrene	11.969	104	29459	2.360	ug/l	98
71) Bromoform	12.133	173	7510	3.122	ug/l #	95
73) Isopropylbenzene	12.255	105	48491	2.545	ug/l	100
74) N-amyl acetate	12.072	43	8798	2.178	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	9209	2.831	ug/l	97
76) 1,2,3-Trichloropropane	12.560	75	12975	4.981	ug/l #	100
77) Bromobenzene	12.530	156	13517	2.974	ug/l	96
78) n-propylbenzene	12.597	91	62003	2.734	ug/l	99
79) 2-Chlorotoluene	12.682	91	35839	2.758	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	37527	2.437	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	116778	108.513	ug/l #	14
82) 4-Chlorotoluene	12.780	91	37219	2.761	ug/l	97
83) tert-Butylbenzene	12.999	119	36014	2.590	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	36955	2.411	ug/l	99
85) sec-Butylbenzene	13.176	105	54892	2.687	ug/l	99
86) p-Isopropyltoluene	13.292	119	42398	2.500	ug/l	98
87) 1,3-Dichlorobenzene	13.286	146	27911	3.114	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	29103	3.273	ug/l	94
89) n-Butylbenzene	13.615	91	40127	2.577	ug/l	100
90) Hexachloroethane	13.877	117	11062	3.187	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	24511	3.118	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	1535	3.031	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	14389	3.096	ug/l	98
94) Hexachlorobutadiene	15.023	225	10247	3.751	ug/l	95
95) Naphthalene	15.145	128	22013	2.777	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	12605	3.147	ug/l	97

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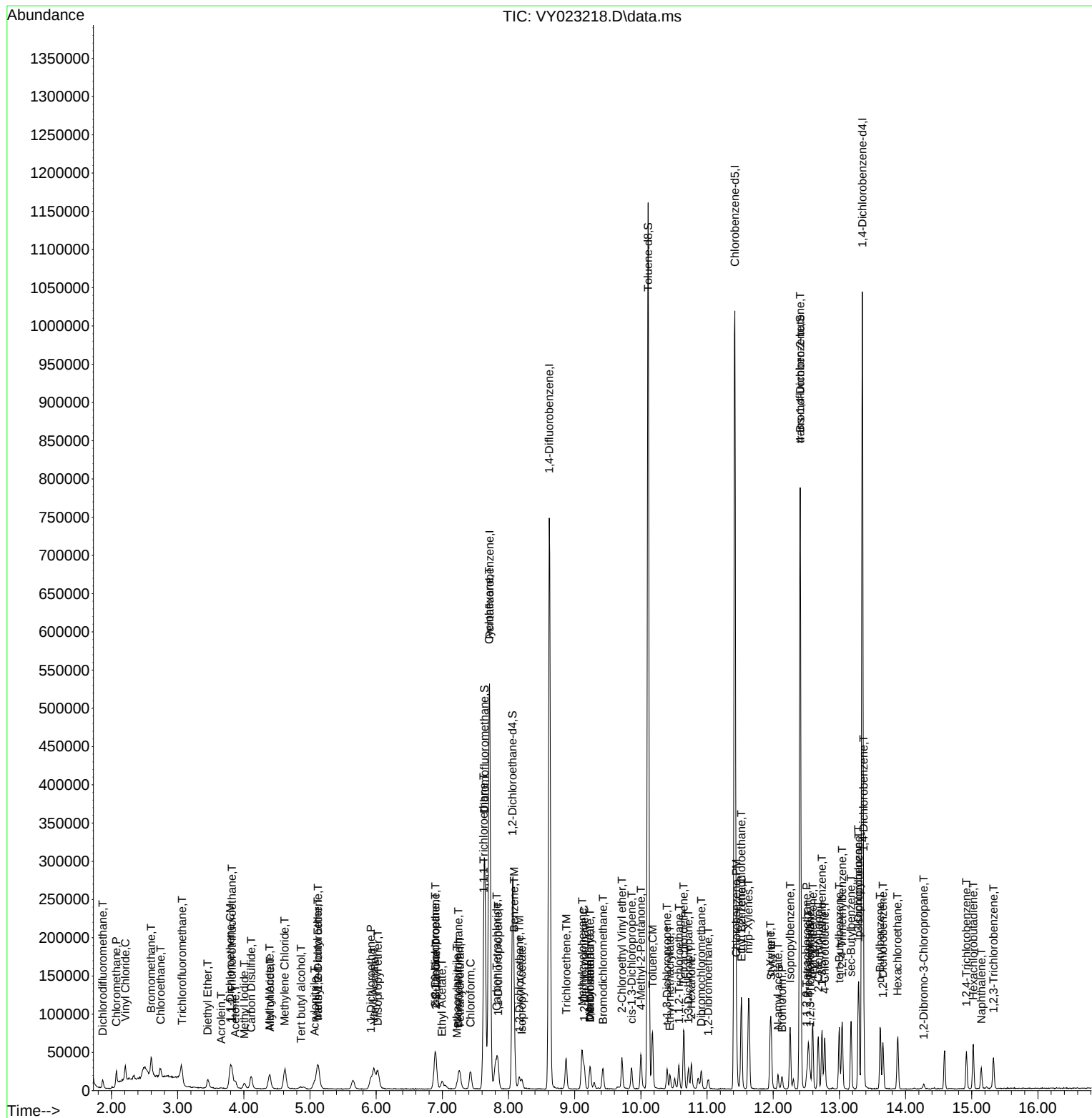
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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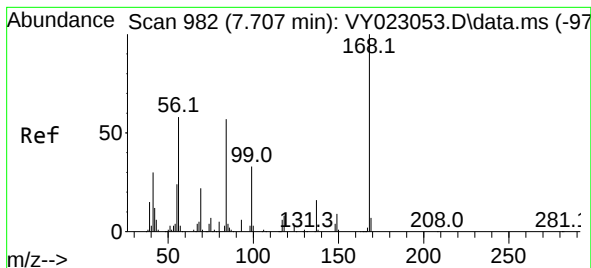
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.713 min Scan# 9

Delta R.T. 0.006 min

Lab File: VY023218.D

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Instrument :

MSVOA_Y

ClientSampleId :

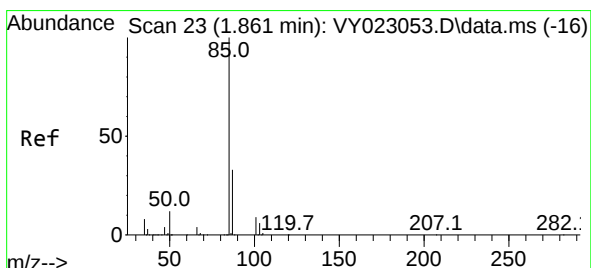
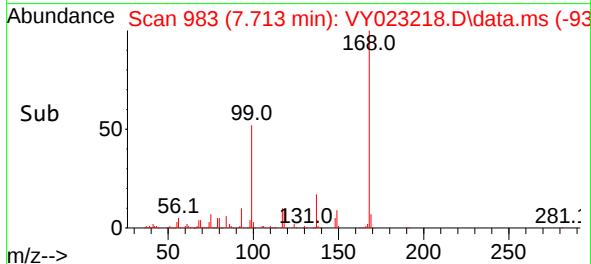
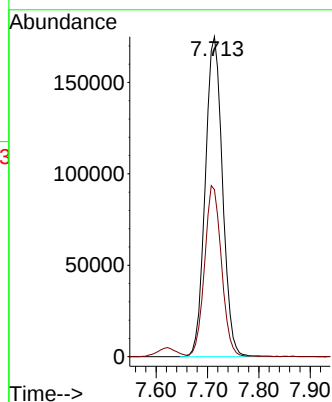
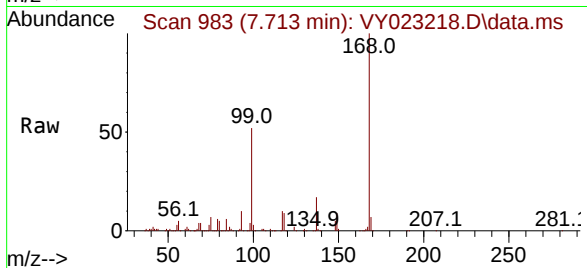
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:168 Resp: 407087

Ion Ratio Lower Upper

168 100

99 52.1 42.8 64.2



#2

Dichlorodifluoromethane

Concen: 2.830 ug/l

RT: 1.867 min Scan# 24

Delta R.T. 0.006 min

Lab File: VY023218.D

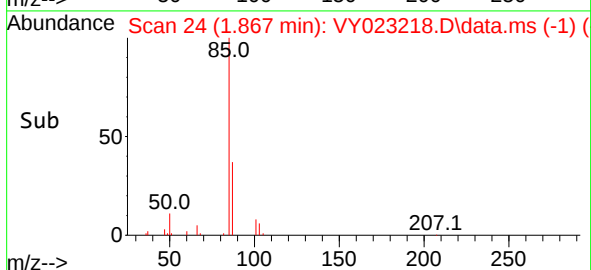
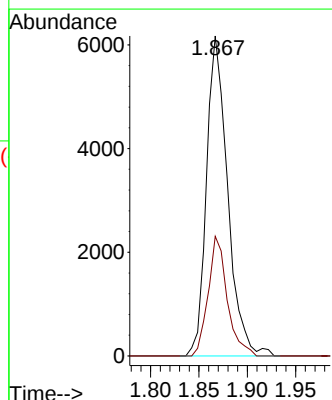
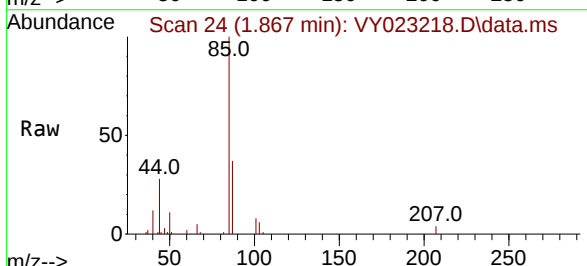
Acq: 28 Aug 2025 11:59

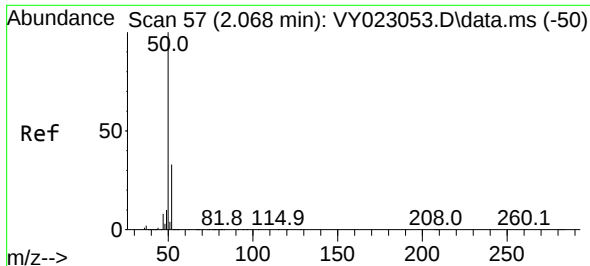
Tgt Ion: 85 Resp: 9405

Ion Ratio Lower Upper

85 100

87 37.4 16.6 49.8

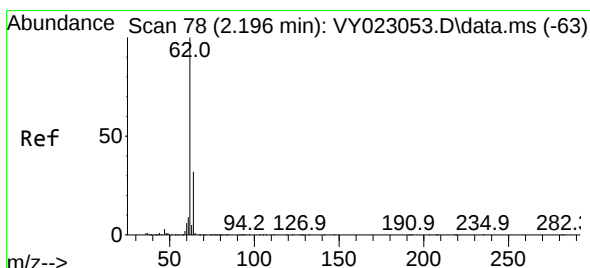
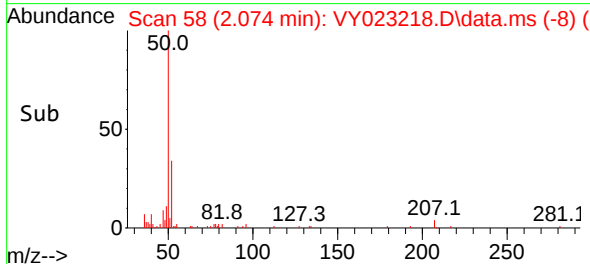
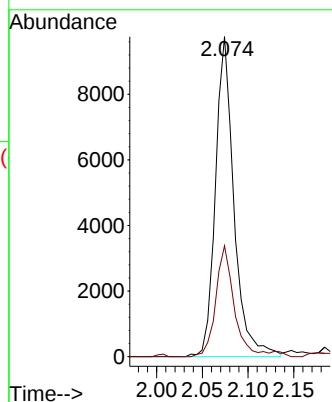
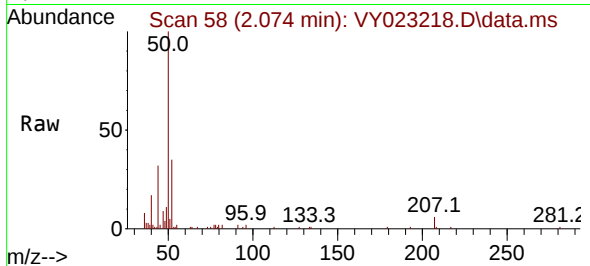




#3
Chloromethane
Concen: 2.546 ug/l
RT: 2.074 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY023218.D
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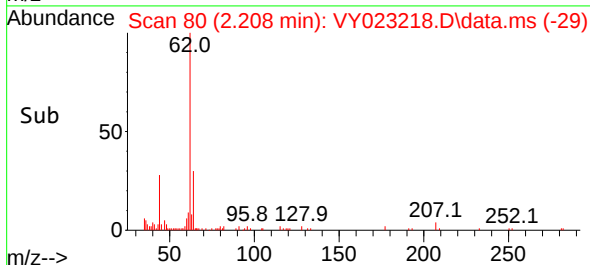
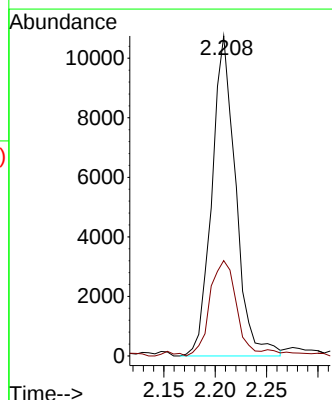
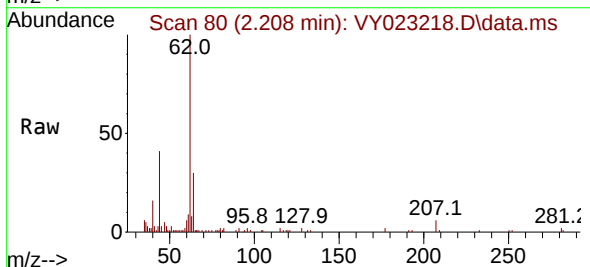
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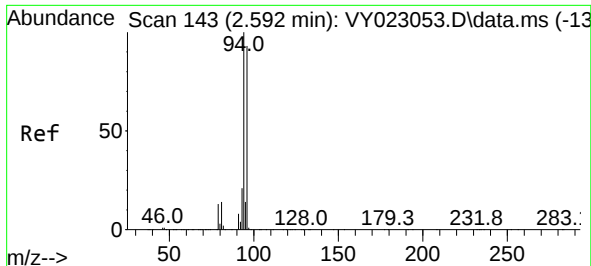
Tgt Ion: 50 Resp: 13701
Ion Ratio Lower Upper
50 100
52 34.7 26.7 40.1



#4
Vinyl Chloride
Concen: 2.607 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 62 Resp: 17346
Ion Ratio Lower Upper
62 100
64 29.0 25.4 38.0

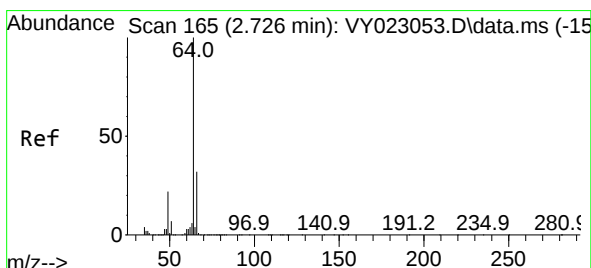
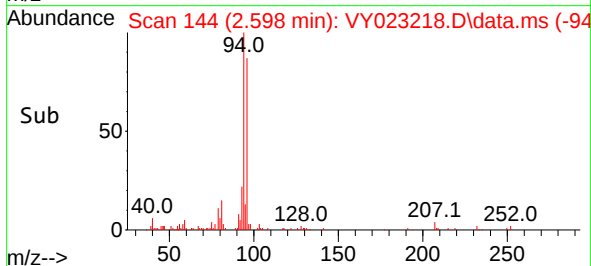
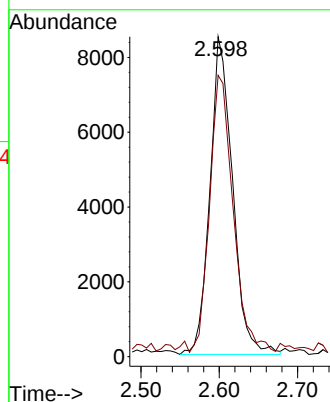
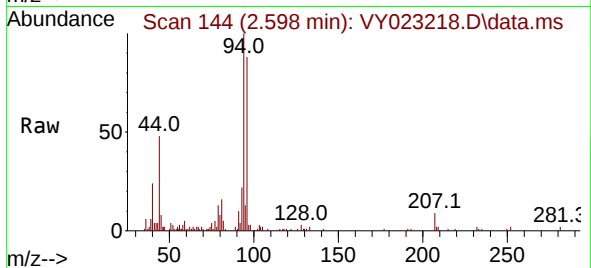




#5
Bromomethane
Concen: 3.436 ug/l
RT: 2.598 min Scan# 143
Delta R.T. 0.006 min
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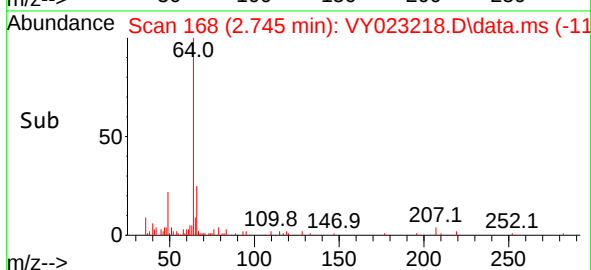
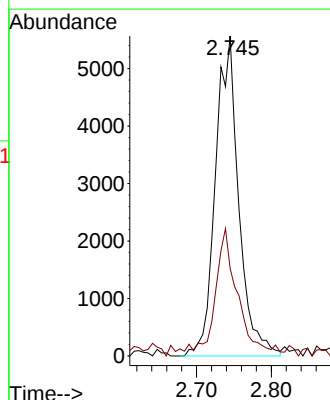
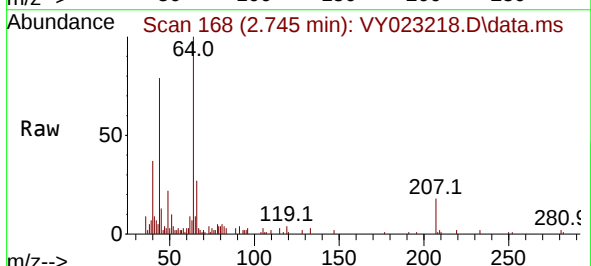
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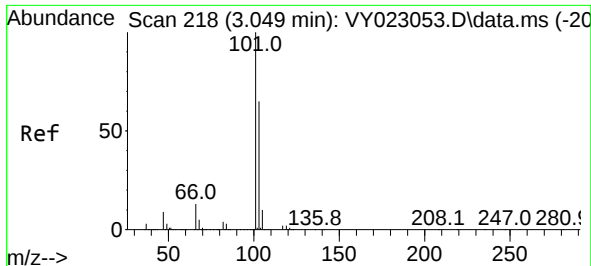
Tgt Ion: 94 Resp: 17071
Ion Ratio Lower Upper
94 100
96 85.4 74.6 112.0



#6
Chloroethane
Concen: 2.728 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.018 min
Lab File: VY023218.D
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Tgt Ion: 64 Resp: 12068
Ion Ratio Lower Upper
64 100
66 26.1 25.8 38.6

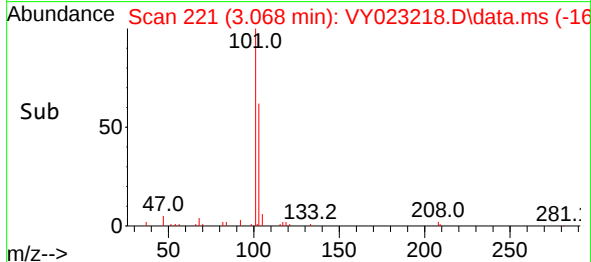
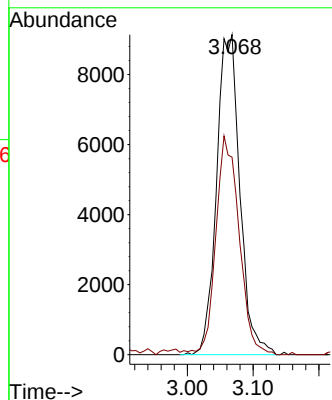
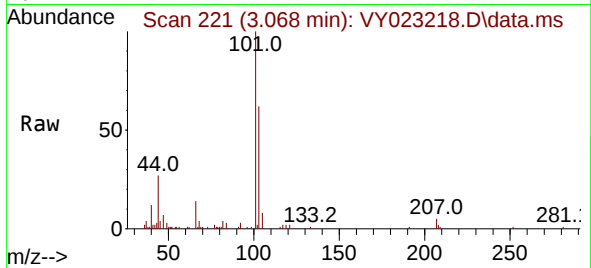




#7
 Trichlorofluoromethane
 Concen: 2.782 ug/l
 RT: 3.068 min Scan# 218
 Delta R.T. 0.018 min
 Lab File: VY023218.D
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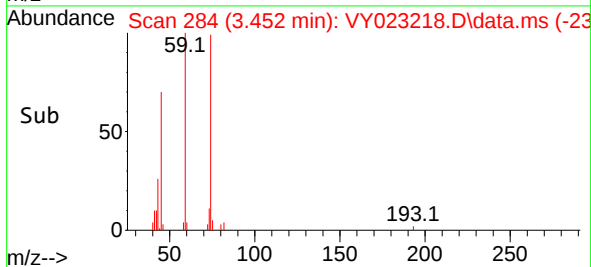
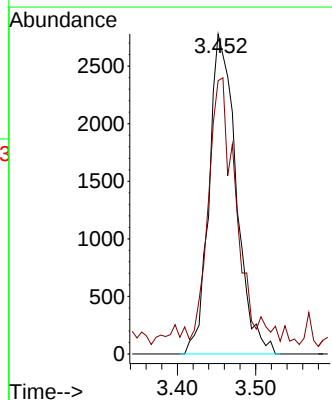
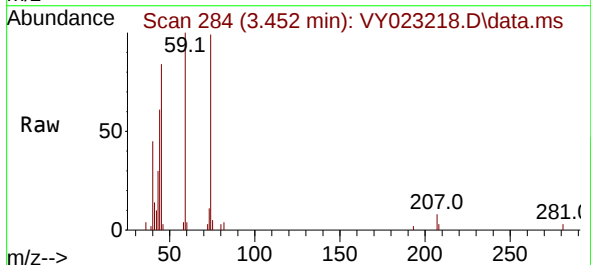
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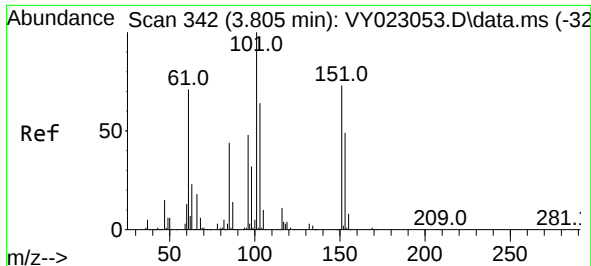
Tgt Ion:101 Resp: 22508
 Ion Ratio Lower Upper
 101 100
 103 61.7 51.9 77.9



#8
 Diethyl Ether
 Concen: 3.118 ug/l
 RT: 3.452 min Scan# 284
 Delta R.T. 0.006 min
 Lab File: VY023218.D
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Tgt Ion: 74 Resp: 6673
 Ion Ratio Lower Upper
 74 100
 45 78.4 44.4 133.2

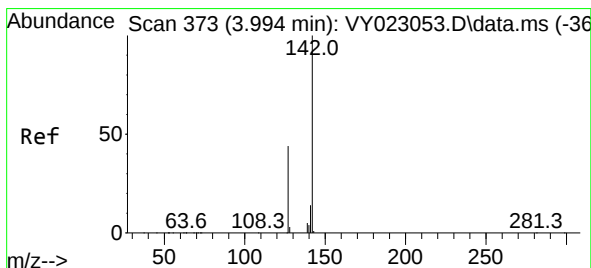
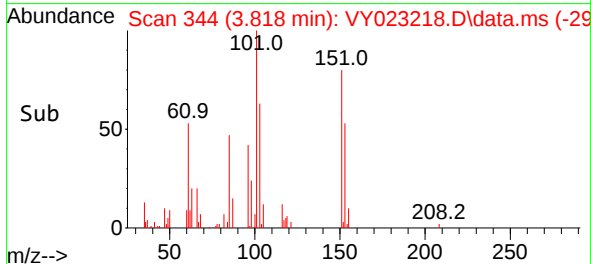
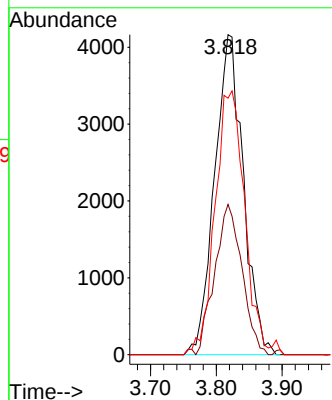
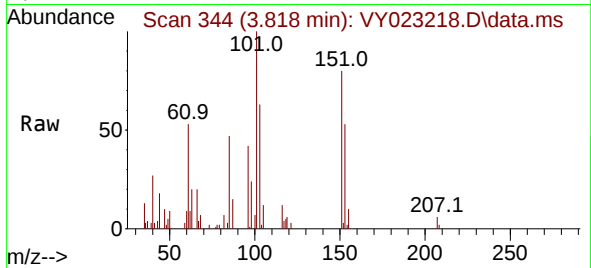




#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.167 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

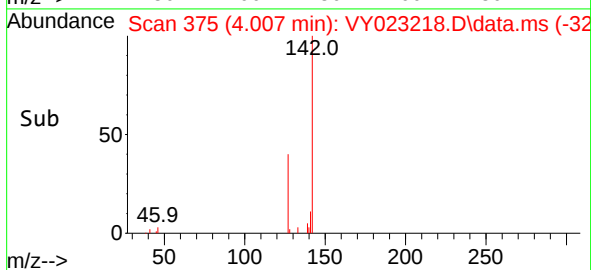
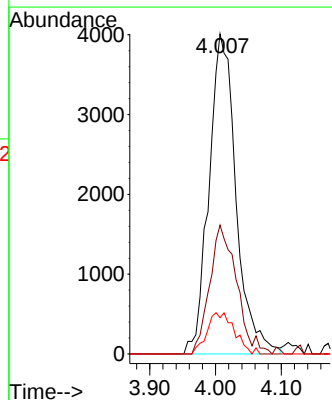
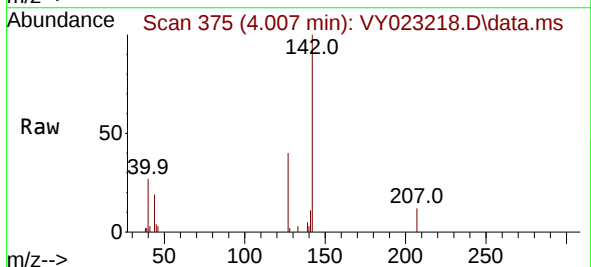
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

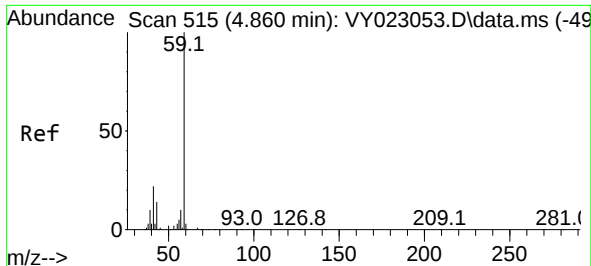
Tgt Ion:101 Resp: 12640
Ion Ratio Lower Upper
101 100
85 45.0 36.3 54.5
151 84.3 61.5 92.3



#10
Methyl Iodide
Concen: 2.668 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion:142 Resp: 11491
Ion Ratio Lower Upper
142 100
127 40.0 34.9 52.3
141 12.9 11.3 16.9





#11

Tert butyl alcohol

Concen: 9.972 ug/l

RT: 4.866 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

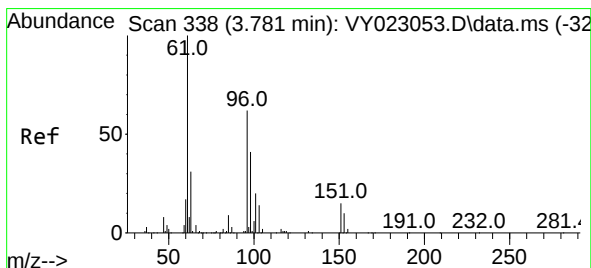
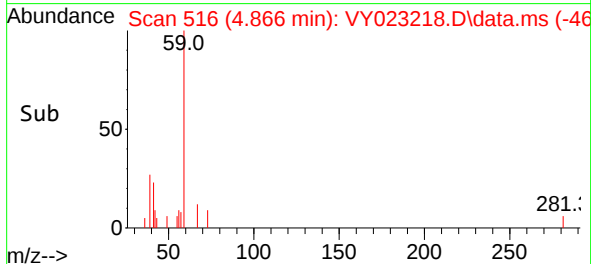
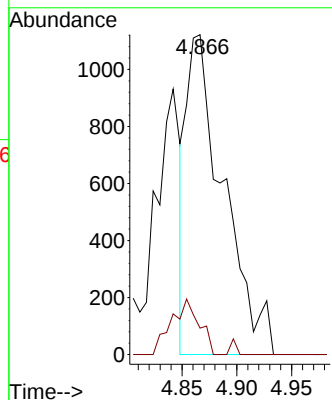
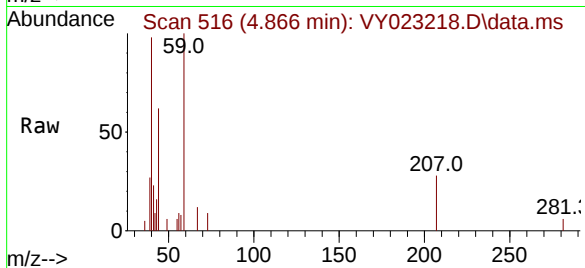
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 59 Resp: 2651

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#12

1,1-Dichloroethene

Concen: 2.948 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

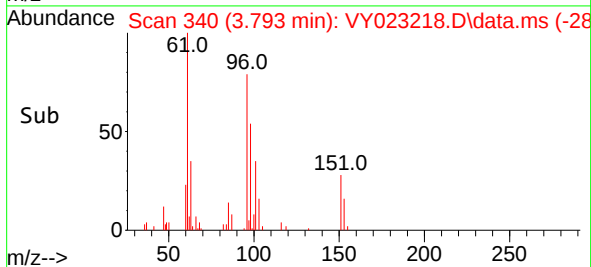
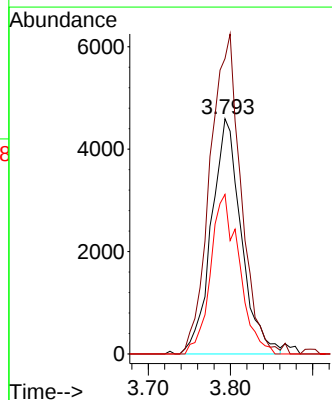
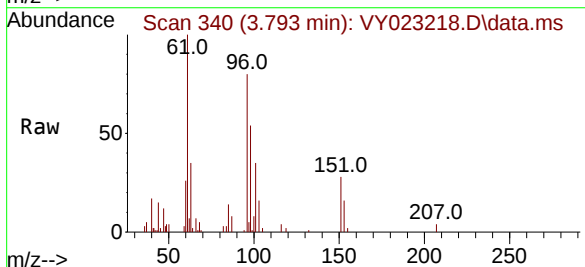
Tgt Ion: 96 Resp: 11563

Ion Ratio Lower Upper

96 100

61 125.6 129.4 194.2#

98 67.8 52.8 79.2





#13

Acrolein

Concen: 1.775 ug/l

RT: 3.659 min Scan# 316

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

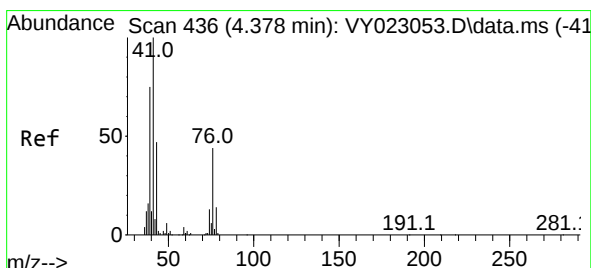
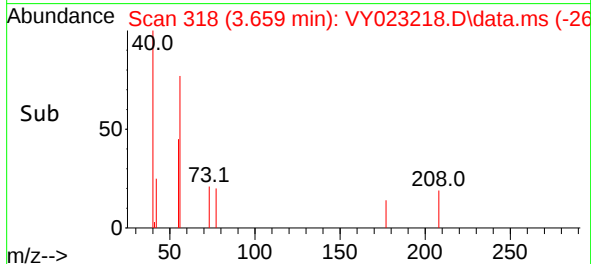
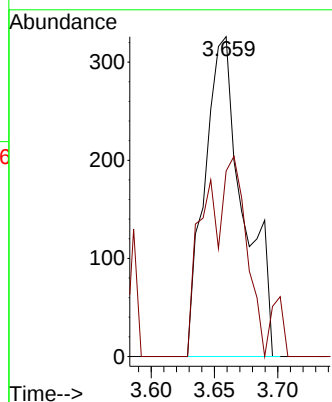
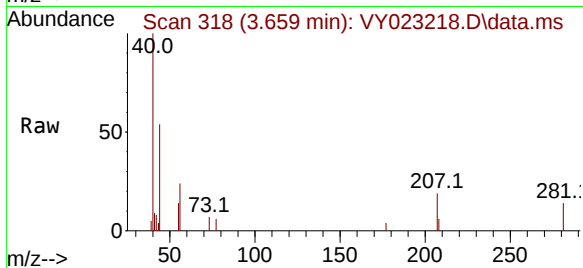
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 56 Resp: 691

Ion Ratio Lower Upper

56 100

55 37.2 55.2 82.8#



#14

Allyl chloride

Concen: 2.512 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.018 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

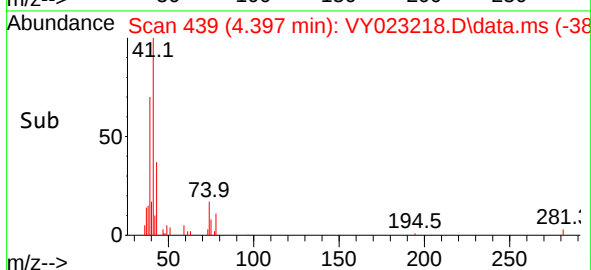
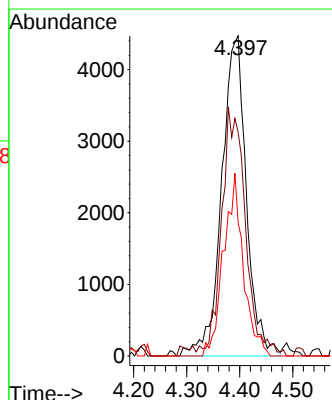
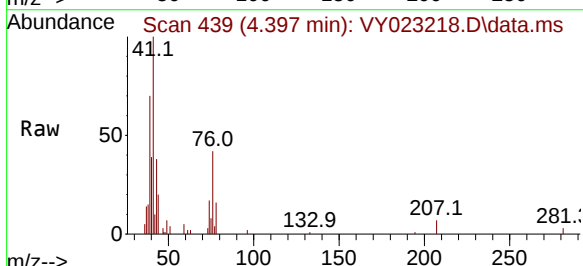
Tgt Ion: 41 Resp: 14500

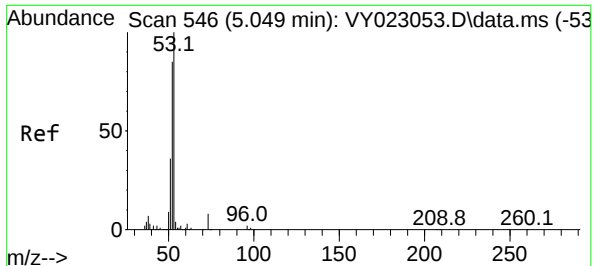
Ion Ratio Lower Upper

41 100

39 75.0 59.8 89.6

76 45.5 33.7 50.5





#15

Acrylonitrile

Concen: 14.090 ug/l

RT: 5.068 min Scan# 546

Delta R.T. 0.018 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

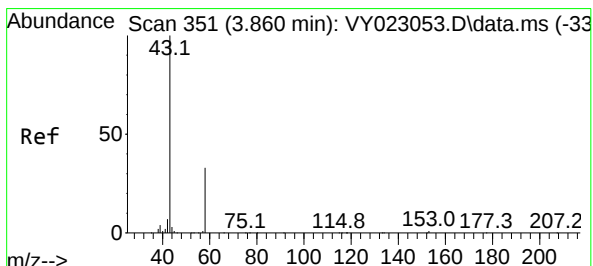
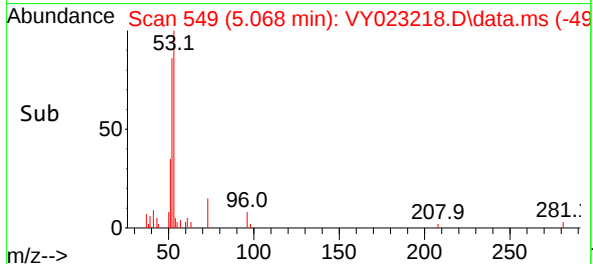
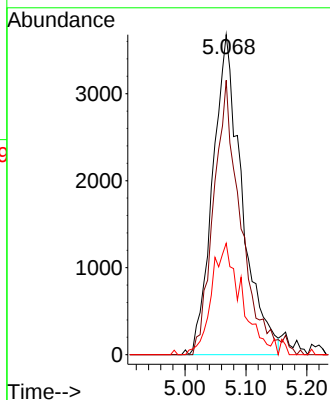
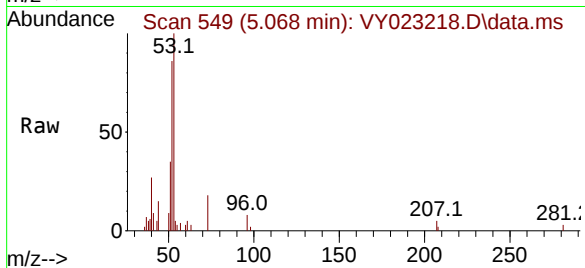
Tgt Ion: 53 Resp: 12260

Ion Ratio Lower Upper

53 100

52 81.0 65.3 97.9

51 35.7 29.5 44.3



#16

Acetone

Concen: 18.370 ug/l

RT: 3.873 min Scan# 353

Delta R.T. 0.012 min

Lab File: VY023218.D

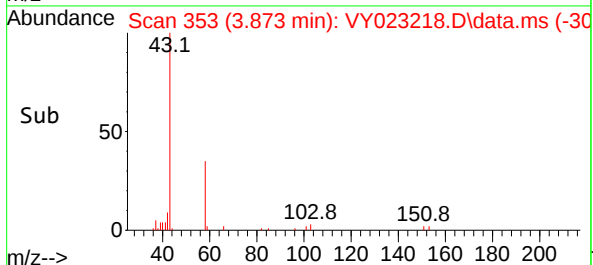
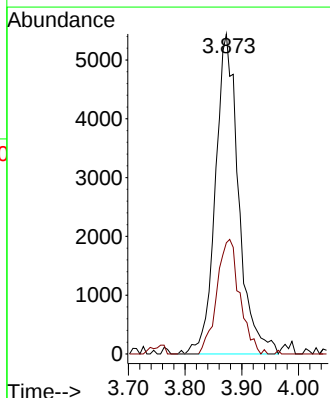
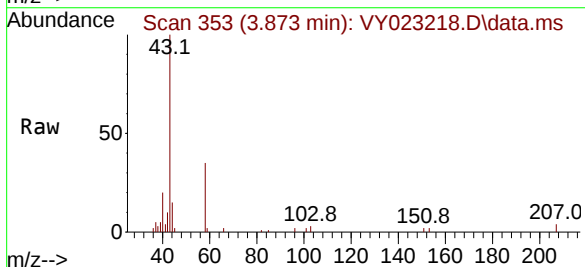
Acq: 28 Aug 2025 11:59

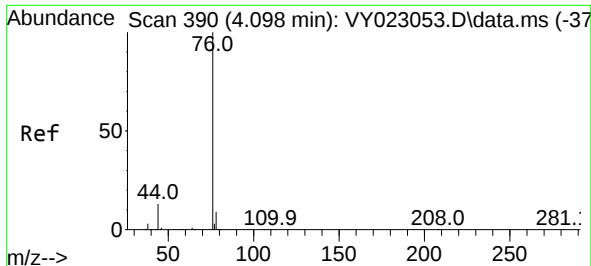
Tgt Ion: 43 Resp: 15441

Ion Ratio Lower Upper

43 100

58 34.8 27.1 40.7

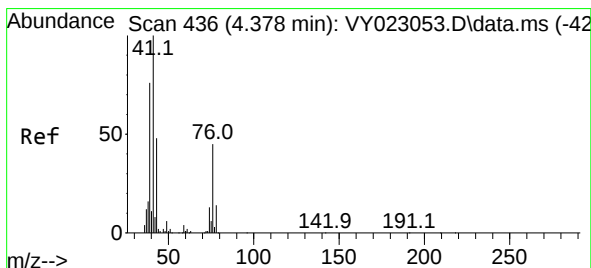
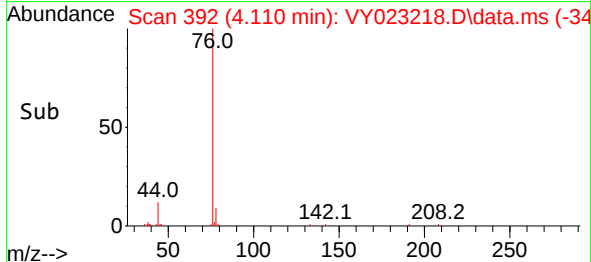
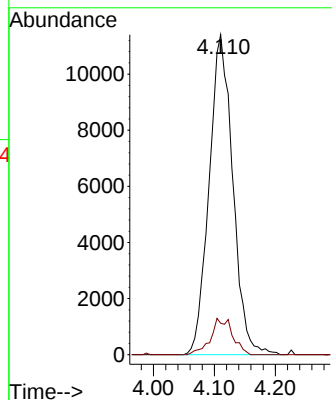
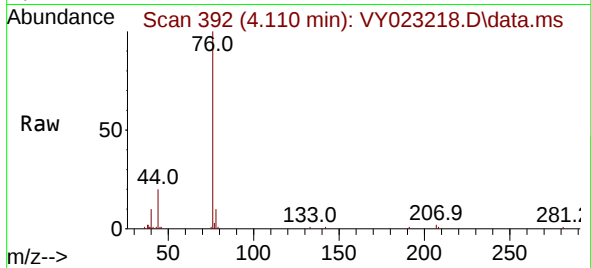




#17
Carbon Disulfide
Concen: 2.411 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

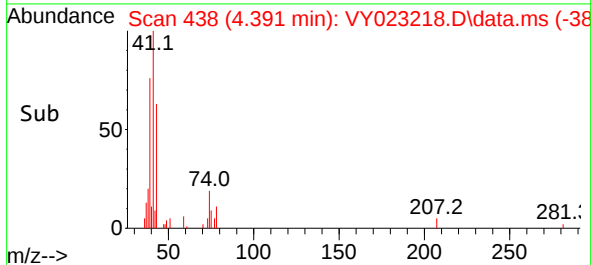
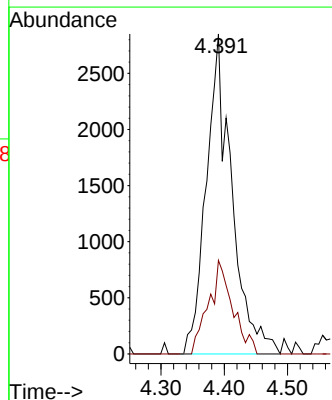
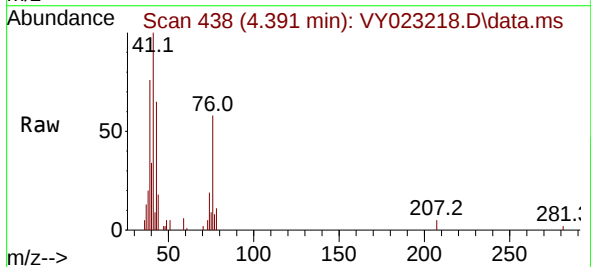
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 76 Resp: 30836
Ion Ratio Lower Upper
76 100
78 9.8 7.4 11.2



#18
Methyl Acetate
Concen: 3.186 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 43 Resp: 7968
Ion Ratio Lower Upper
43 100
74 27.7 21.2 31.8

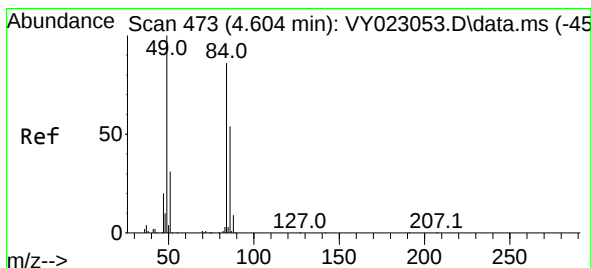
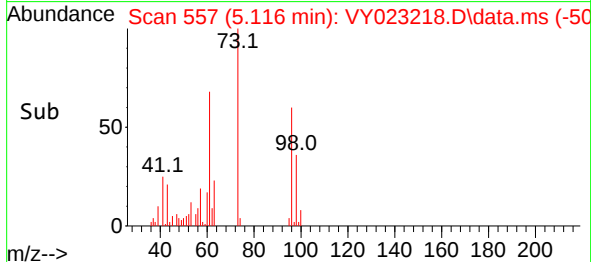
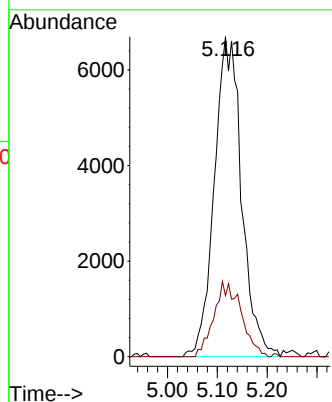
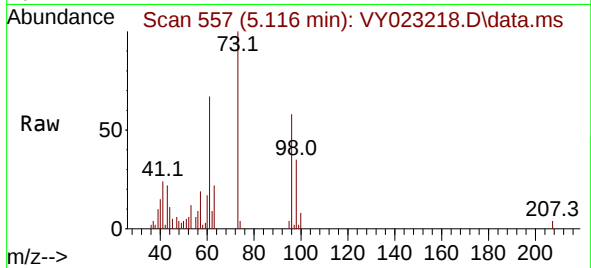




#19
Methyl tert-butyl Ether
Concen: 2.501 ug/l
RT: 5.116 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

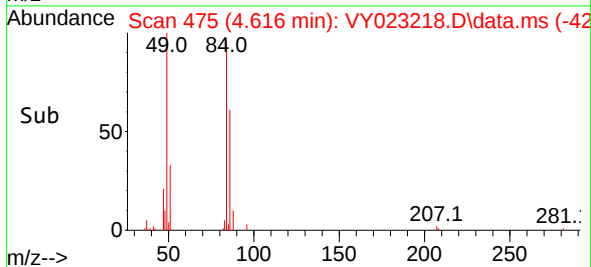
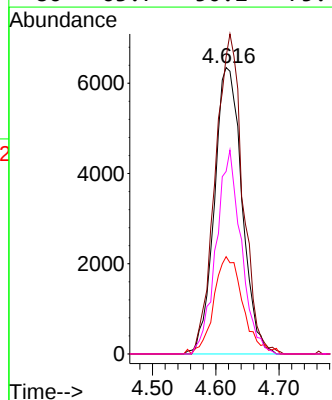
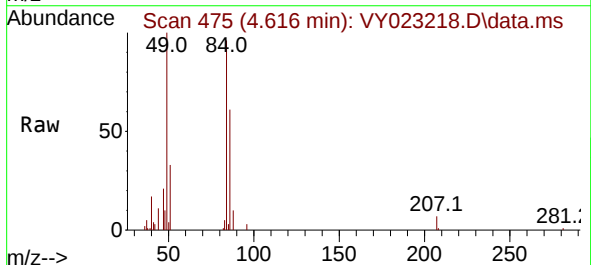
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

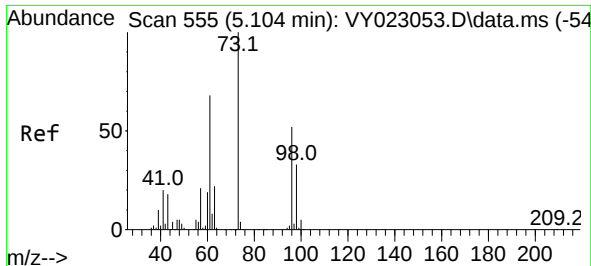
Tgt Ion: 73 Resp: 25421
Ion Ratio Lower Upper
73 100
57 19.0 17.1 25.7



#20
Methylene Chloride
Concen: 3.814 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 84 Resp: 19246
Ion Ratio Lower Upper
84 100
49 103.7 93.0 139.6
51 34.0 29.0 43.4
86 63.7 50.2 75.4

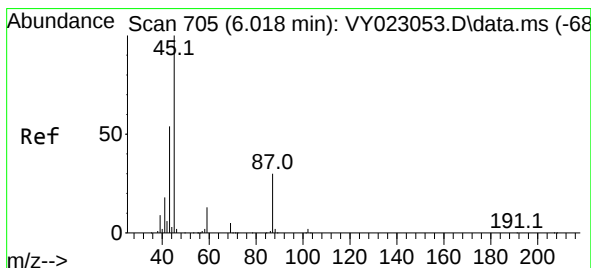
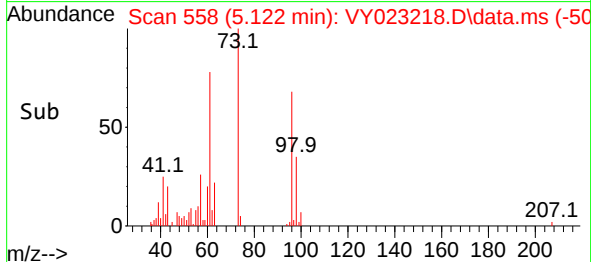
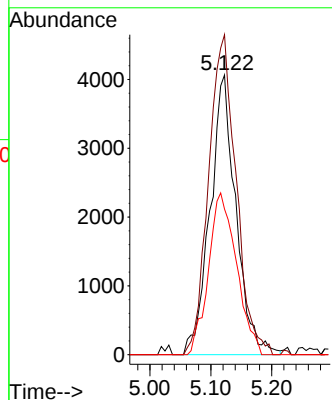
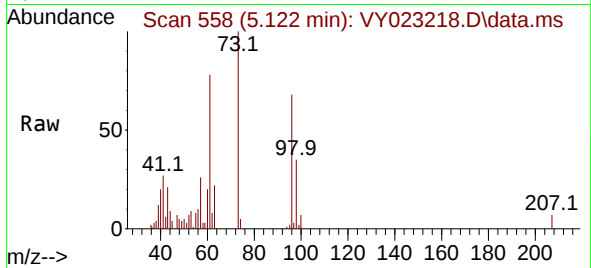




#21
trans-1,2-Dichloroethene
Concen: 2.721 ug/l
RT: 5.122 min Scan# 51
Delta R.T. 0.018 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

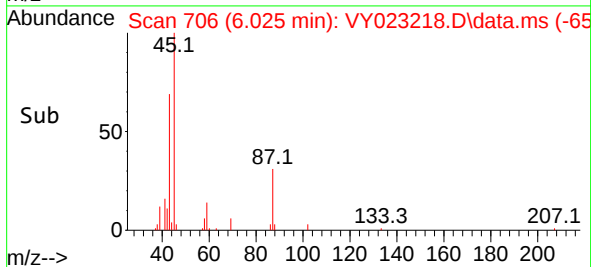
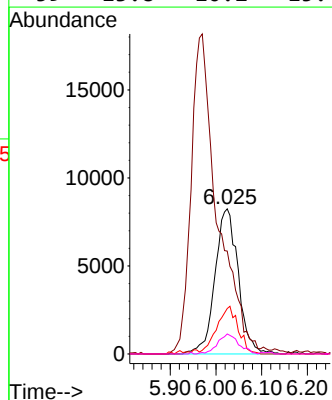
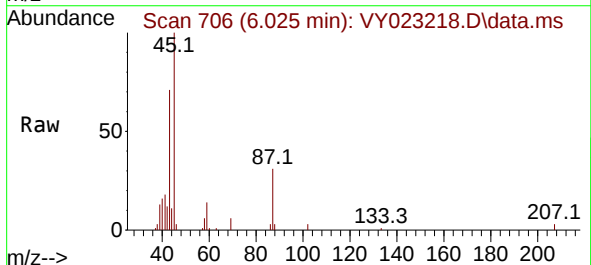
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 96 Resp: 11997
Ion Ratio Lower Upper
96 100
61 114.4 104.8 157.2
98 52.1 50.1 75.1



#22
Diisopropyl ether
Concen: 2.329 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 45 Resp: 29209
Ion Ratio Lower Upper
45 100
43 68.8 43.4 65.0#
87 31.4 24.4 36.6
59 13.8 10.2 15.4

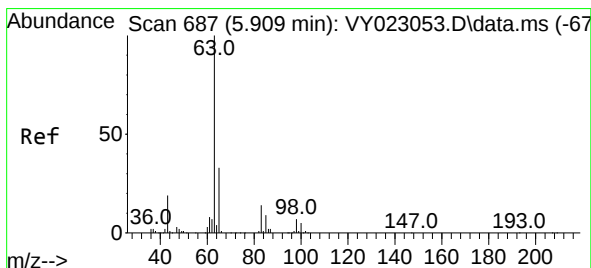
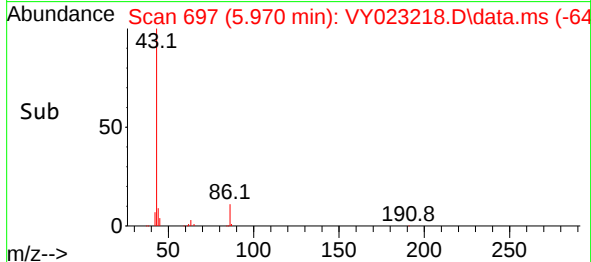
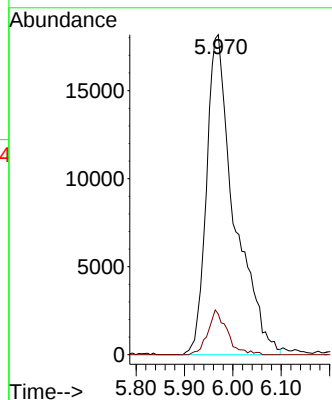
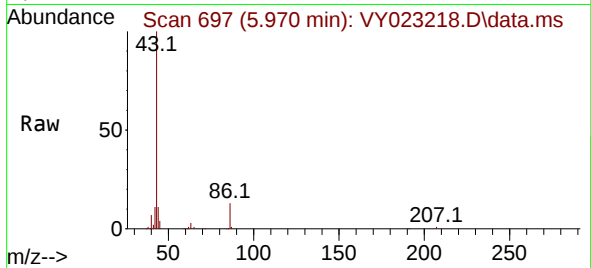




#23
 Vinyl Acetate
 Concen: 10.492 ug/l
 RT: 5.970 min Scan# 61
 Delta R.T. 0.018 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

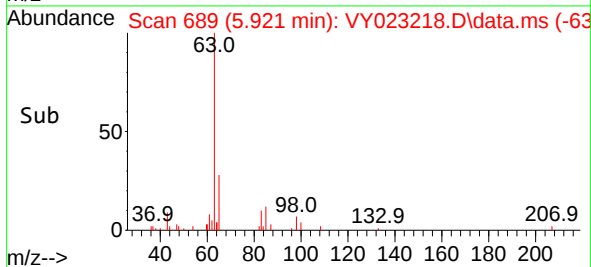
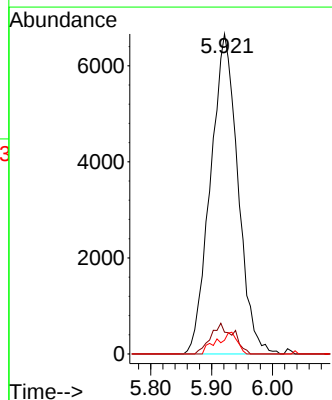
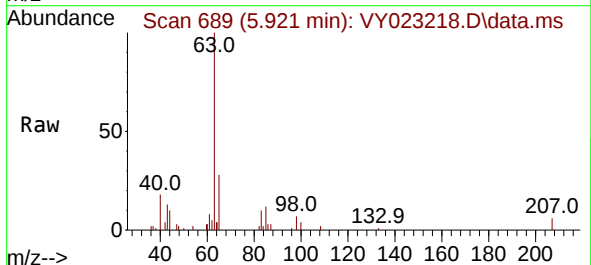
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2025

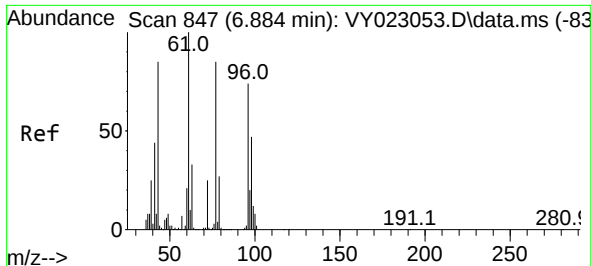
Tgt Ion: 43 Resp: 72771
 Ion Ratio Lower Upper
 43 100
 86 12.7 9.6 14.4



#24
 1,1-Dichloroethane
 Concen: 2.720 ug/l
 RT: 5.921 min Scan# 689
 Delta R.T. 0.012 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

Tgt Ion: 63 Resp: 20858
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.5 10.6
 100 4.3 2.4 7.1





#25

2-Butanone

Concen: 14.544 ug/l

RT: 6.903 min Scan# 8

Delta R.T. 0.018 min

Lab File: VY023218.D

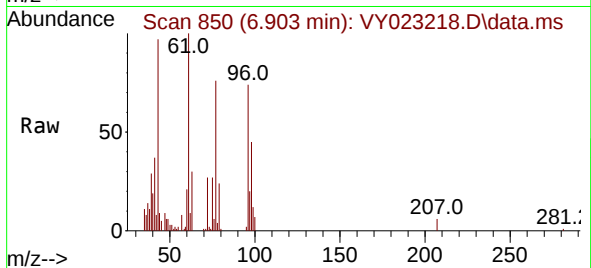
Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

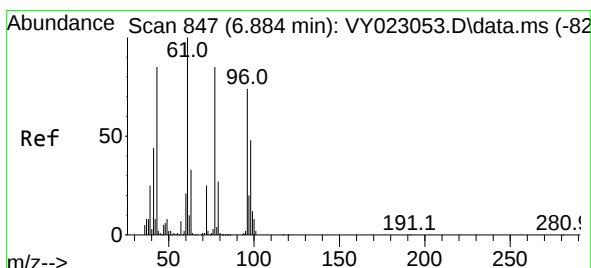
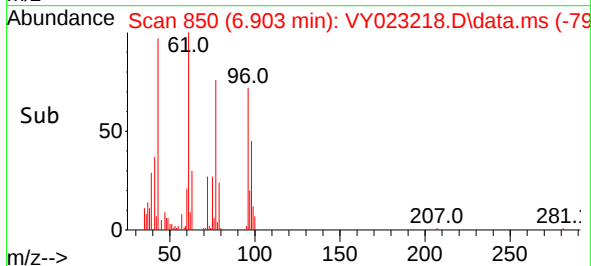
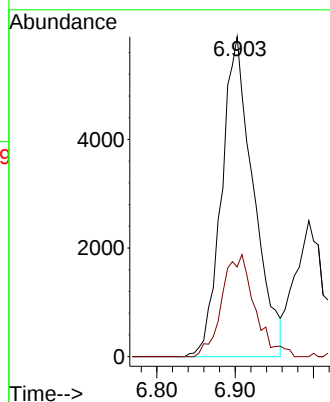


Tgt Ion: 43 Resp: 16626

Ion Ratio Lower Upper

43 100

72 28.1 23.5 35.3



#26

2,2-Dichloropropane

Concen: 2.835 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023218.D

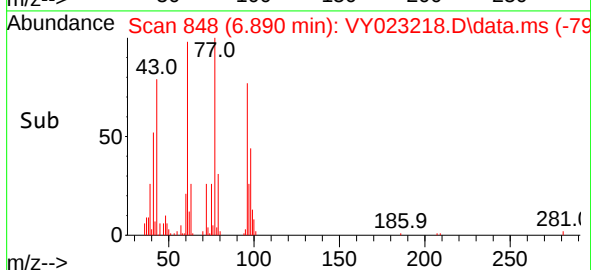
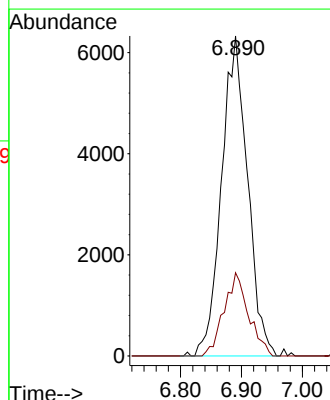
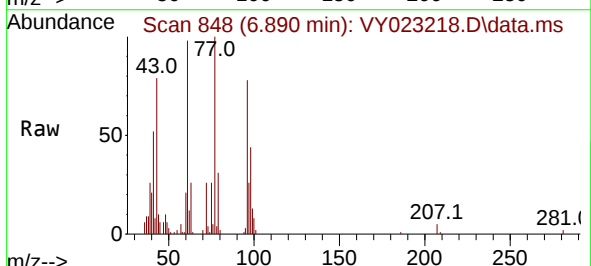
Acq: 28 Aug 2025 11:59

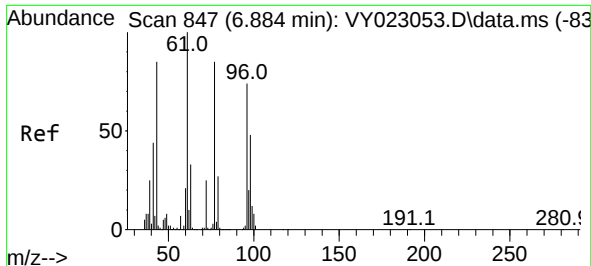
Tgt Ion: 77 Resp: 18757

Ion Ratio Lower Upper

77 100

97 24.6 11.6 34.8





#27

cis-1,2-Dichloroethene

Concen: 2.817 ug/l

RT: 6.896 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

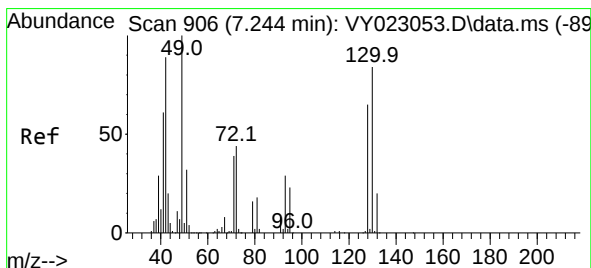
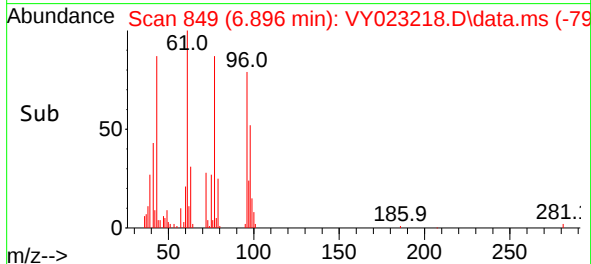
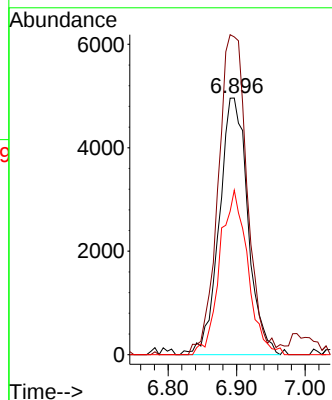
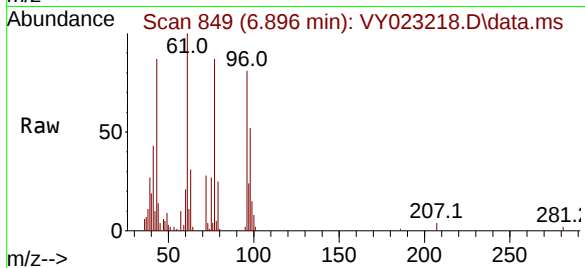
Tgt Ion: 96 Resp: 14358

Ion Ratio Lower Upper

96 100

61 127.5 0.0 278.6

98 62.6 0.0 130.4



#28

Bromochloromethane

Concen: 2.795 ug/l

RT: 7.244 min Scan# 906

Delta R.T. 0.000 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

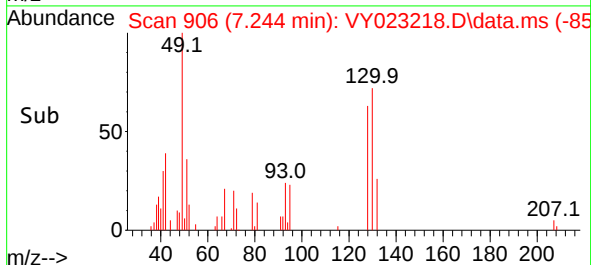
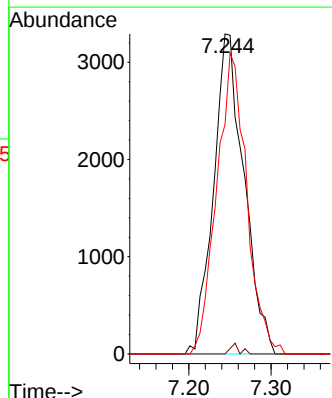
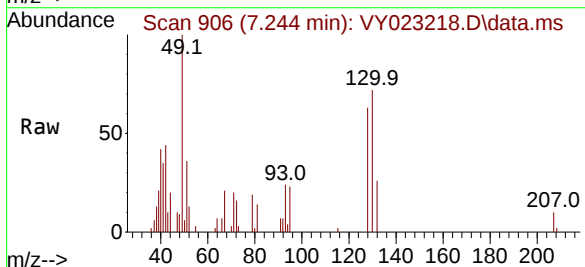
Tgt Ion: 49 Resp: 8504

Ion Ratio Lower Upper

49 100

129 0.9 0.0 4.2

130 92.0 66.4 99.6





#29

Tetrahydrofuran

Concen: 12.852 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.012 min

Lab File: VY023218.D

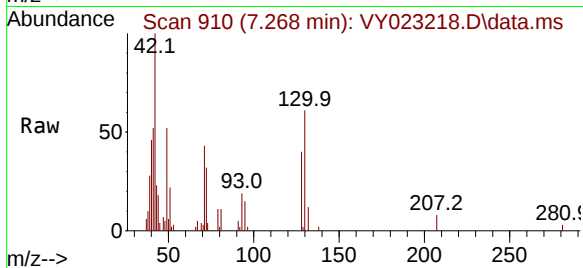
Acq: 28 Aug 2025 11:59

Instrument :

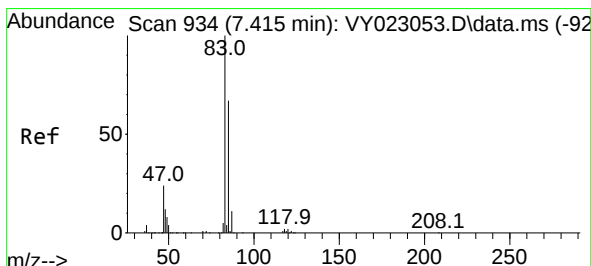
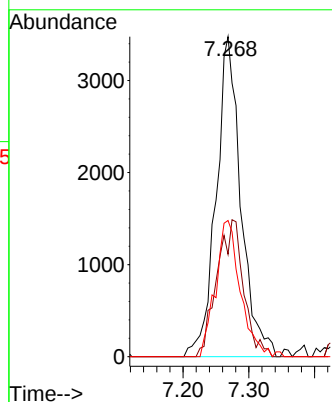
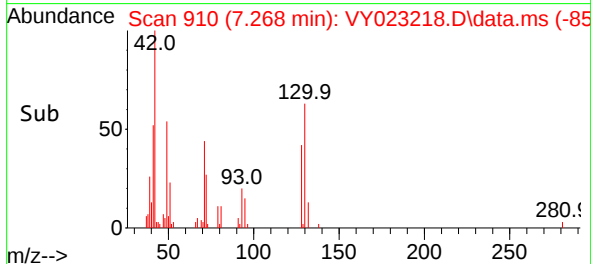
MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025



Tgt Ion:	42	Resp:	9107
Ion	Ratio	Lower	Upper
42	100		
72	46.1	39.4	59.2
71	42.3	36.5	54.7



#30

Chloroform

Concen: 2.884 ug/l

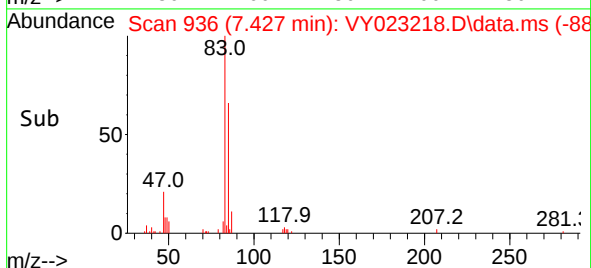
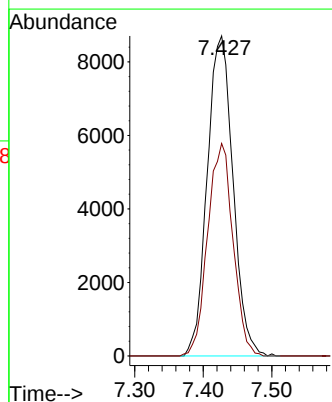
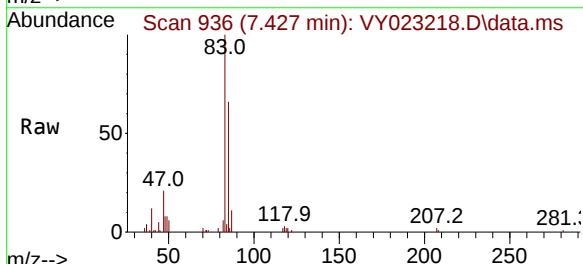
RT: 7.427 min Scan# 936

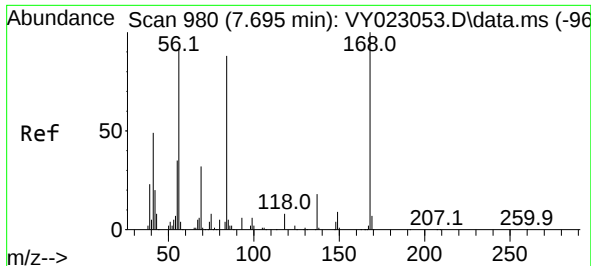
Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Tgt Ion:	83	Resp:	22807
Ion	Ratio	Lower	Upper
83	100		
85	66.4	53.8	80.8

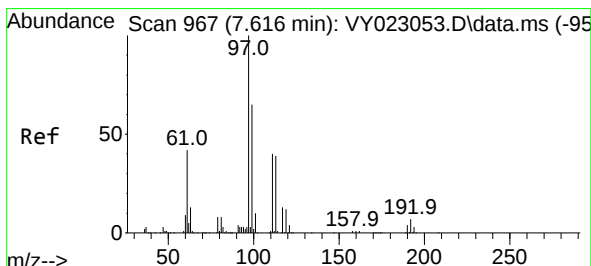
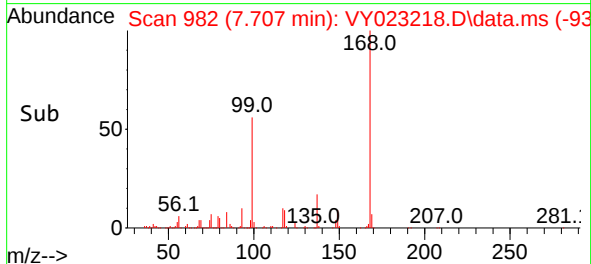
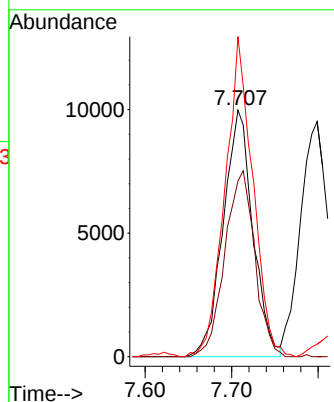
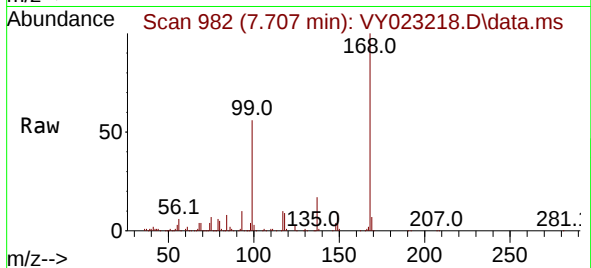




#31
Cyclohexane
Concen: 3.286 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

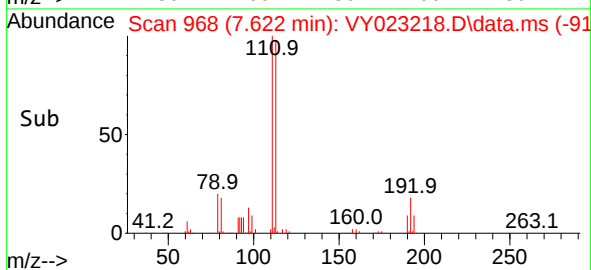
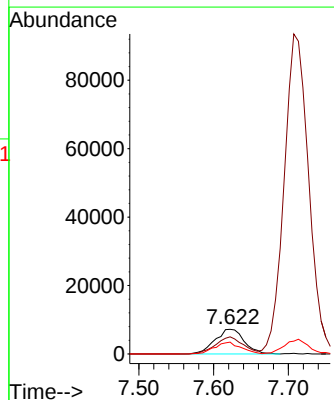
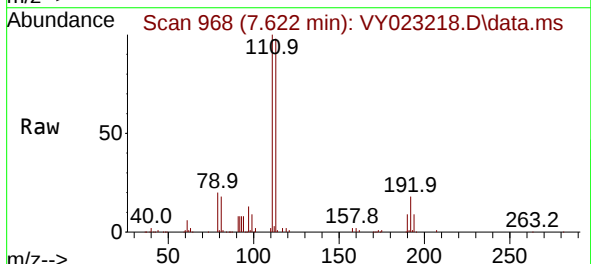
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 56 Resp: 23748
Ion Ratio Lower Upper
56 100
69 71.3 28.2 42.2#
84 129.8 76.6 114.8#



#32
1,1,1-Trichloroethane
Concen: 2.788 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 97 Resp: 19563
Ion Ratio Lower Upper
97 100
99 65.3 51.6 77.4
61 43.3 34.2 51.2





#33

1,2-Dichloroethane-d4

Concen: 52.723 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

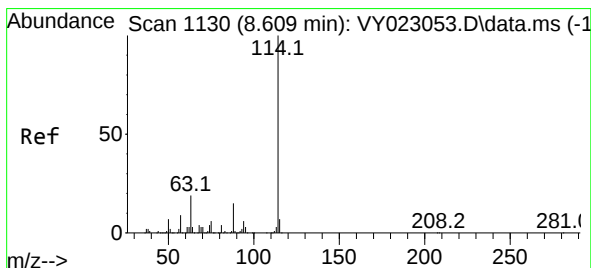
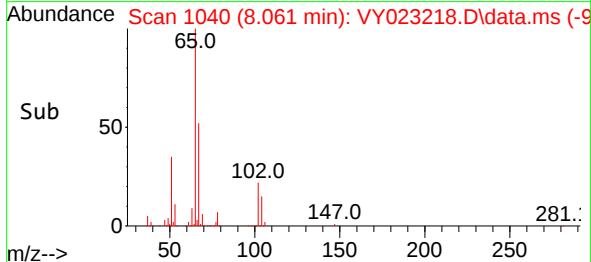
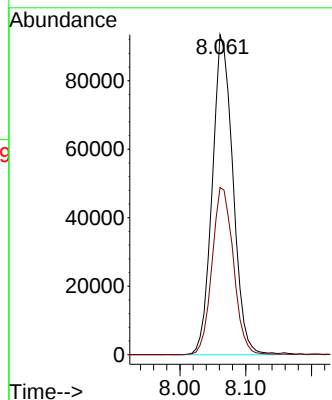
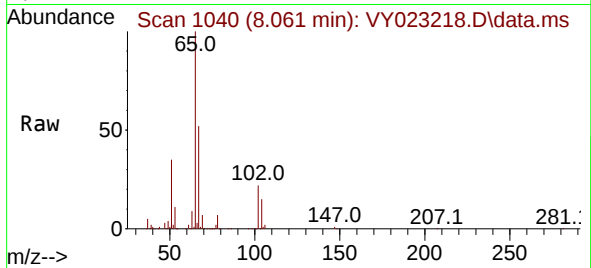
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 65 Resp: 204556

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

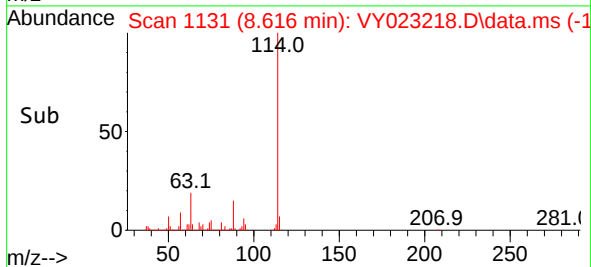
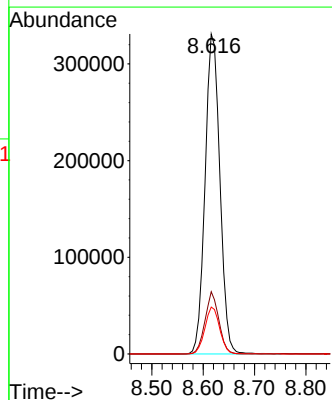
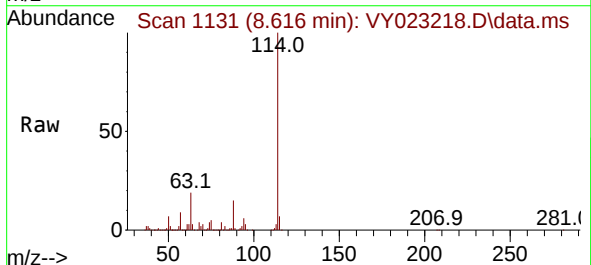
Tgt Ion: 114 Resp: 662624

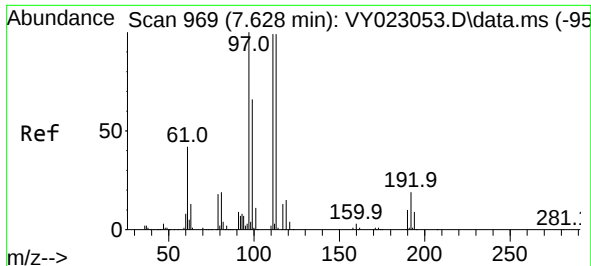
Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 14.7 0.0 30.0

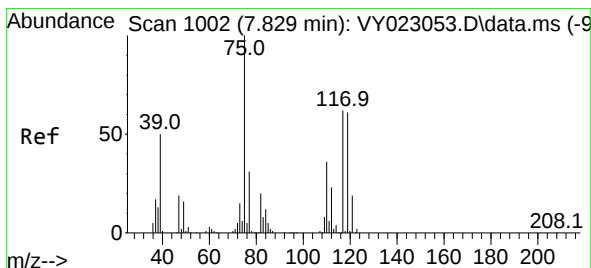
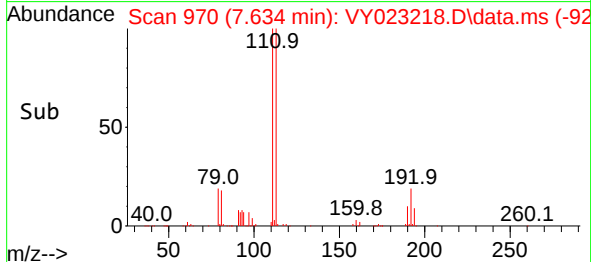
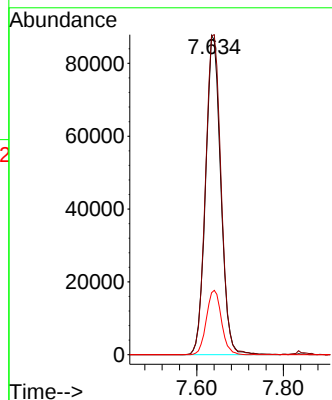
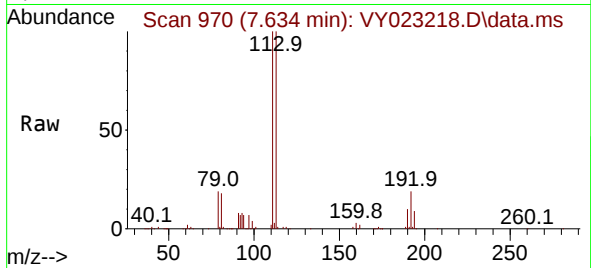




#35
Dibromofluoromethane
Concen: 53.550 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

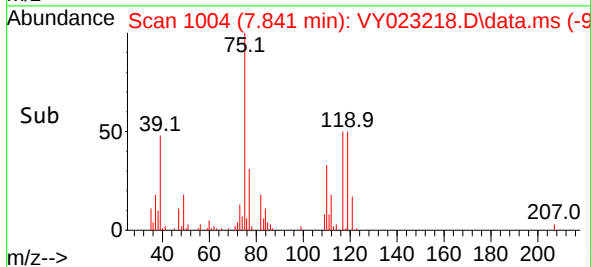
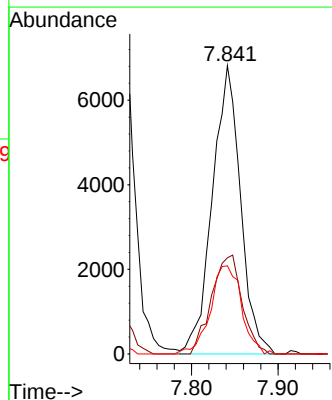
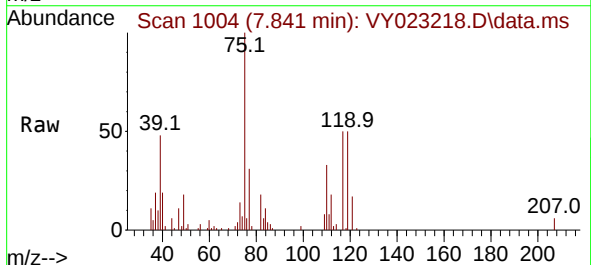
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

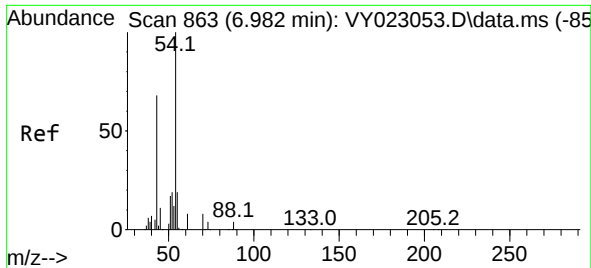
Tgt Ion:113 Resp: 212323
Ion Ratio Lower Upper
113 100
111 102.8 81.1 121.7
192 20.1 16.2 24.4



#36
1,1-Dichloropropene
Concen: 2.615 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 75 Resp: 15411
Ion Ratio Lower Upper
75 100
110 37.2 18.1 54.4
77 33.7 24.6 37.0

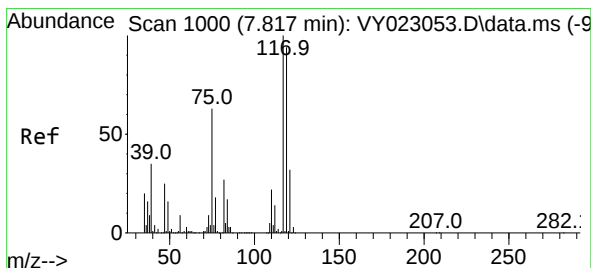
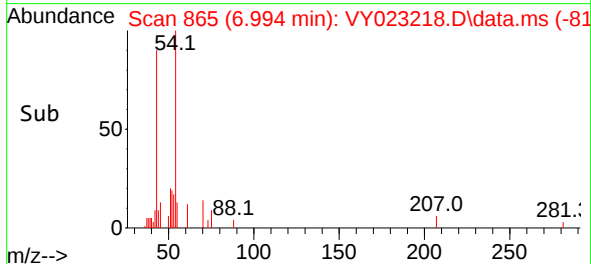
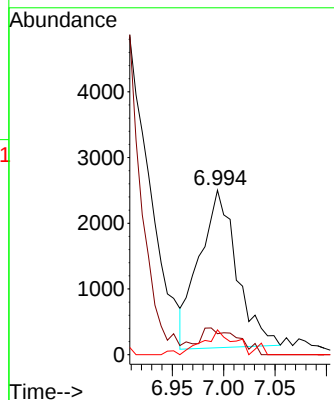
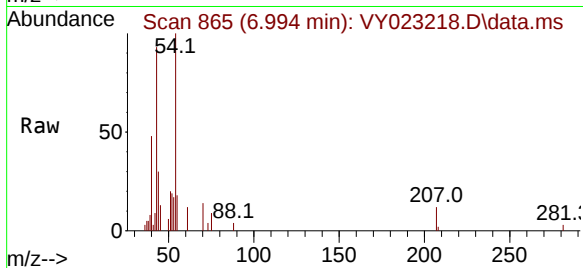




#37
Ethyl Acetate
Concen: 2.448 ug/l
RT: 6.994 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

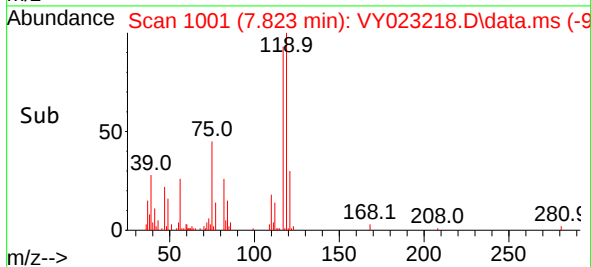
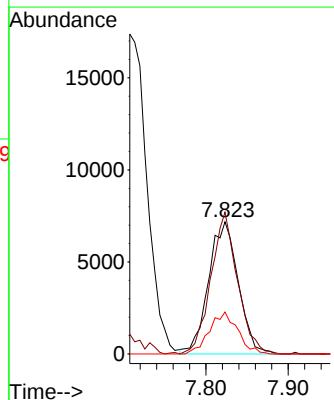
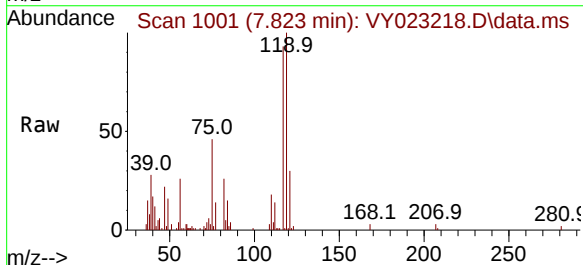
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

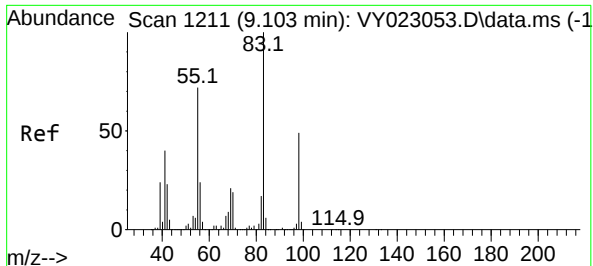
Tgt Ion: 43 Resp: 6060
Ion Ratio Lower Upper
43 100
61 16.4 11.9 17.9
70 13.8 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 2.811 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 117 Resp: 17993
Ion Ratio Lower Upper
117 100
119 107.3 75.6 113.4
121 31.8 25.8 38.8





#39

Methylcyclohexane

Concen: 2.595 ug/l

RT: 9.116 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

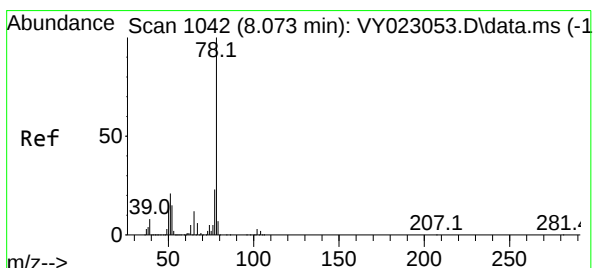
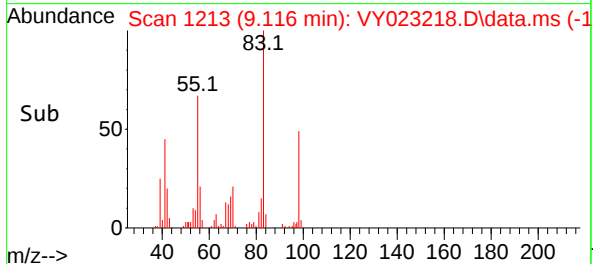
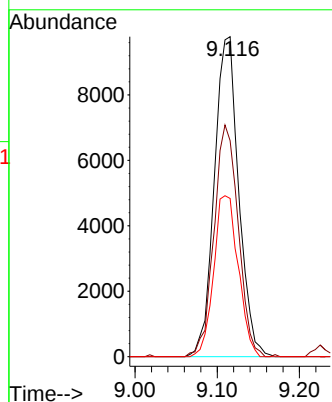
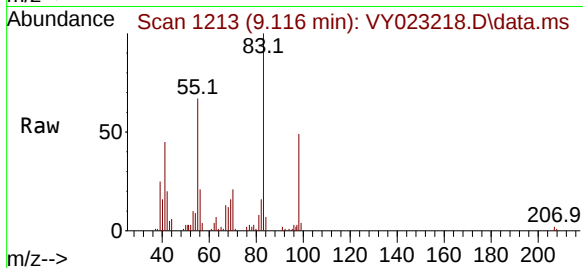
Tgt Ion: 83 Resp: 20135

Ion Ratio Lower Upper

83 100

55 67.5 57.6 86.4

98 49.4 39.2 58.8



#40

Benzene

Concen: 2.685 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. 0.012 min

Lab File: VY023218.D

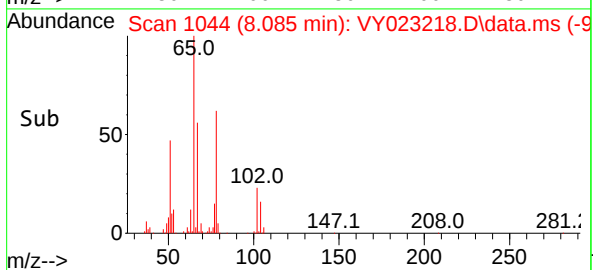
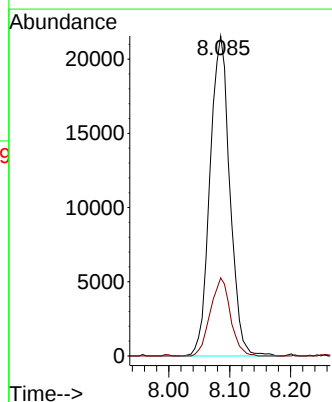
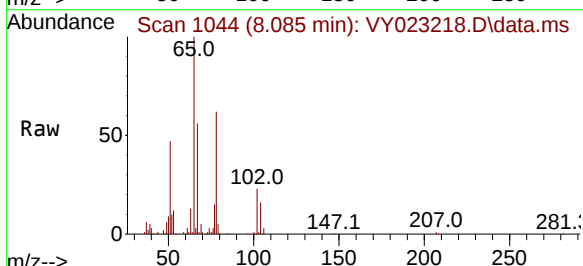
Acq: 28 Aug 2025 11:59

Tgt Ion: 78 Resp: 48762

Ion Ratio Lower Upper

78 100

77 24.4 18.6 28.0

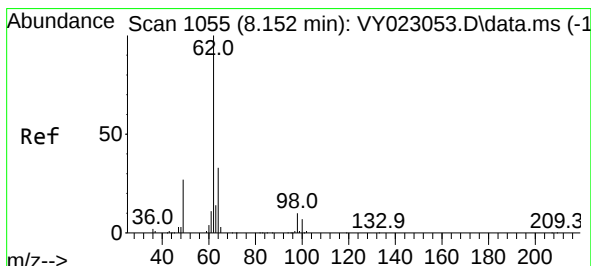
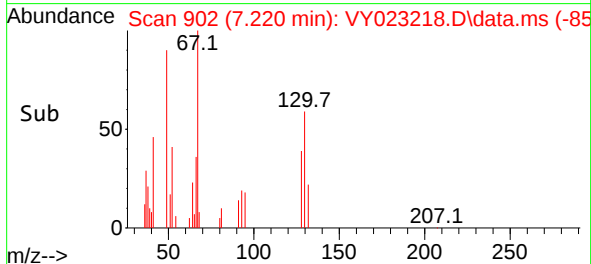
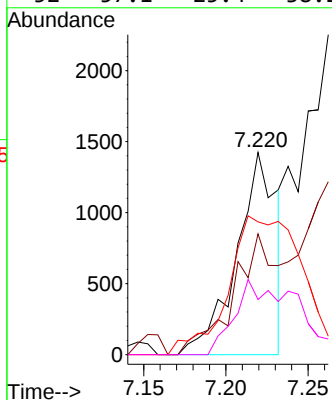
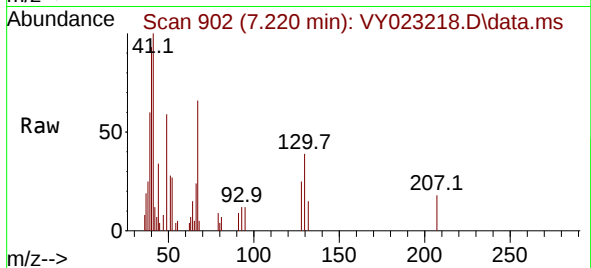




#41
Methacrylonitrile
Concen: 1.682 ug/l
RT: 7.220 min Scan# 902
Delta R.T. 0.000 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

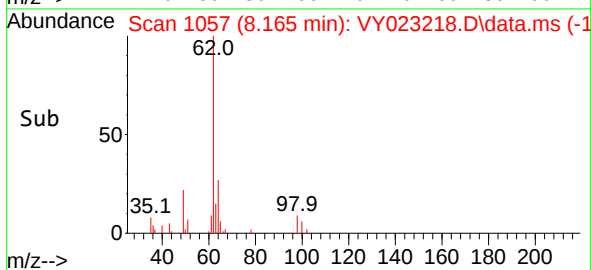
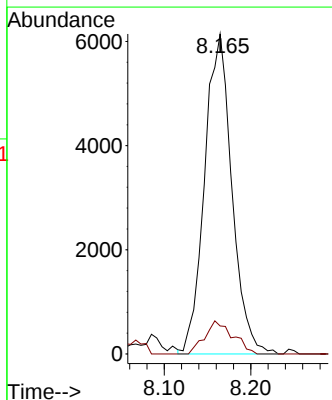
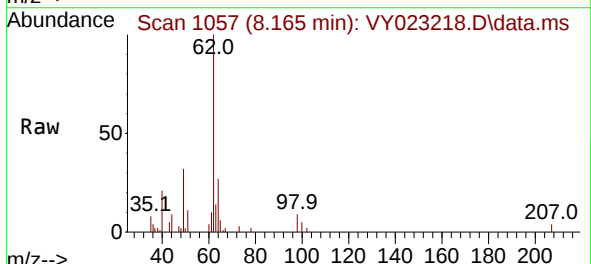
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:	41	Resp:	2403
Ion	Ratio	Lower	Upper
41	100		
39	63.4	43.4	65.2
67	128.3	63.6	95.4#
52	57.1	25.4	38.2#



#42
1,2-Dichloroethane
Concen: 2.851 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion:	62	Resp:	13467
Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	20.6

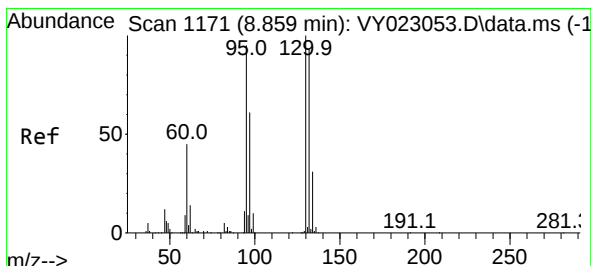
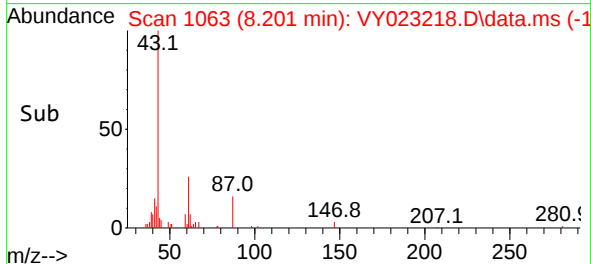
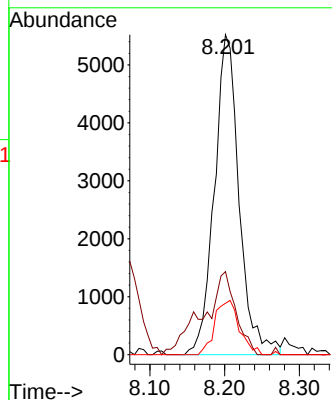
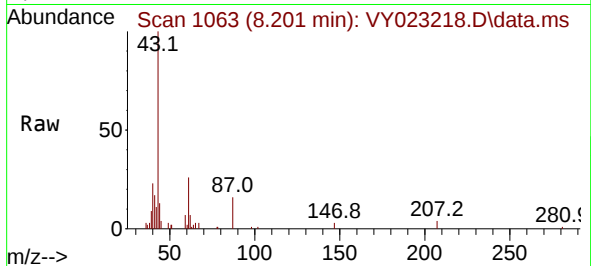




#43
Isopropyl Acetate
Concen: 2.545 ug/l
RT: 8.201 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

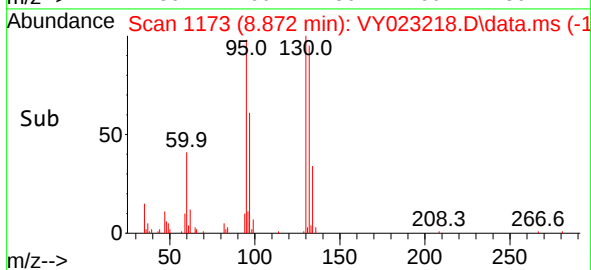
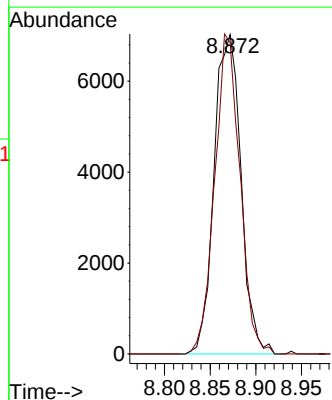
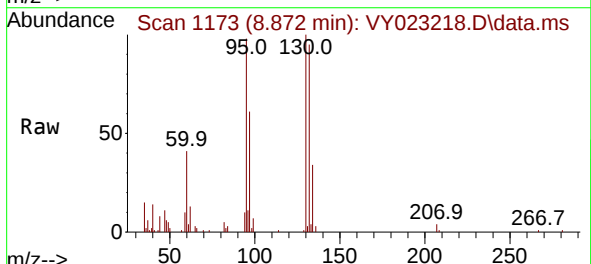
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 43 Resp: 12730
Ion Ratio Lower Upper
43 100
61 24.1 16.4 24.6
87 16.8 11.8 17.6



#44
Trichloroethene
Concen: 3.055 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion:130 Resp: 14338
Ion Ratio Lower Upper
130 100
95 97.6 0.0 190.2





#45

1,2-Dichloropropane

Concen: 2.635 ug/l

RT: 9.146 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

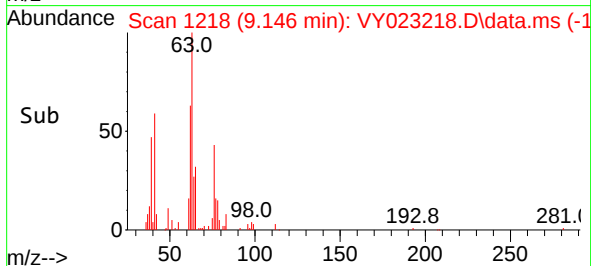
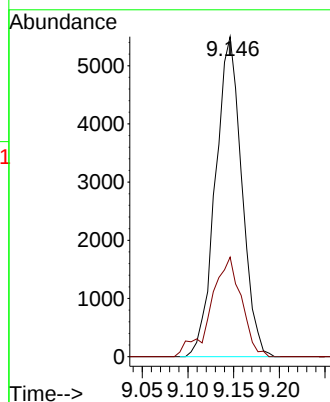
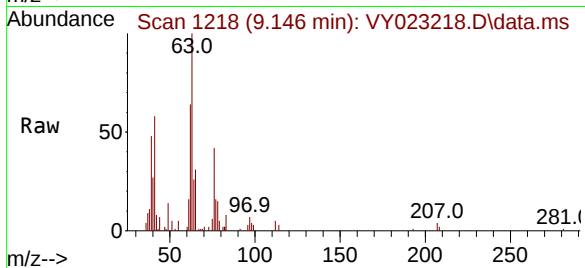
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 63 Resp: 11011

Ion Ratio Lower Upper

63 100

65 31.1 25.3 37.9



#46

Dibromomethane

Concen: 2.691 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

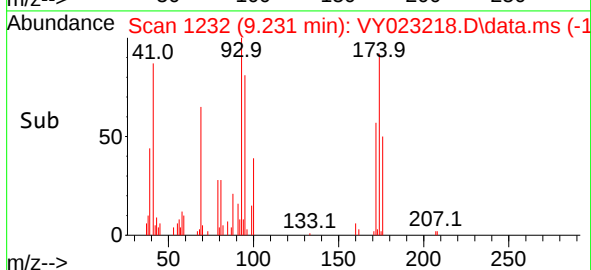
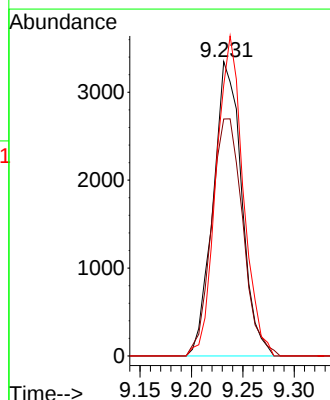
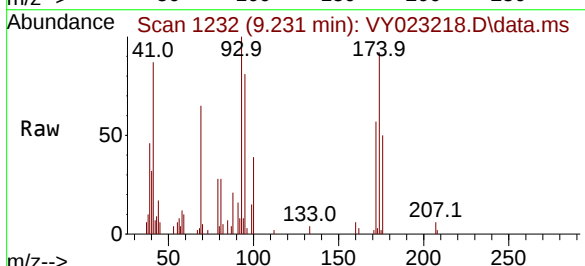
Tgt Ion: 93 Resp: 6455

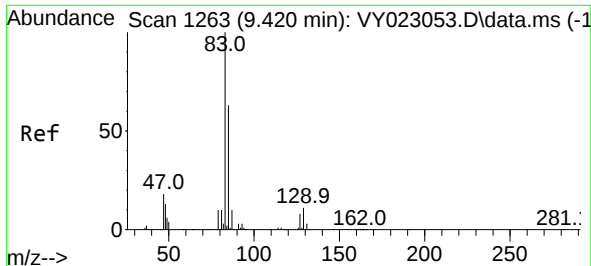
Ion Ratio Lower Upper

93 100

95 88.1 66.5 99.7

174 103.0 81.8 122.8

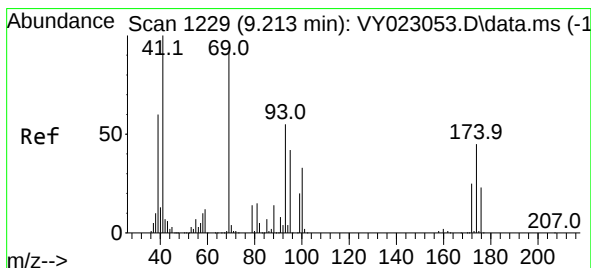
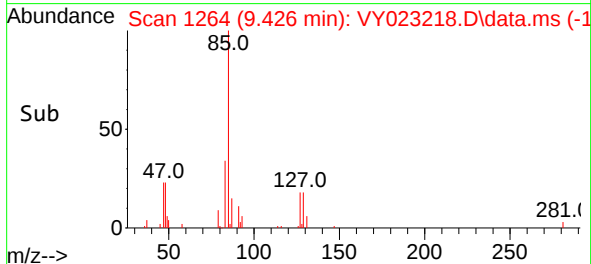
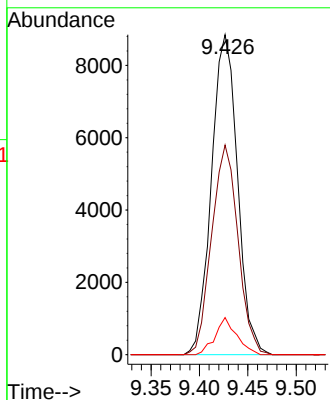
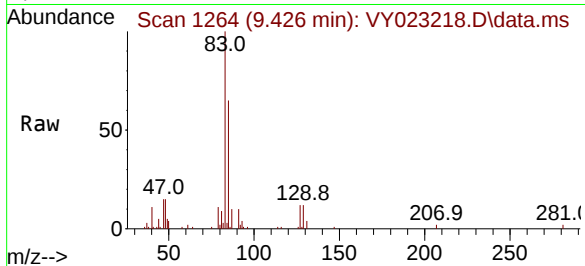




#47
Bromodichloromethane
Concen: 2.686 ug/l
RT: 9.426 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

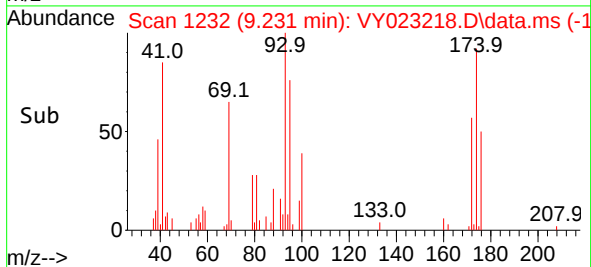
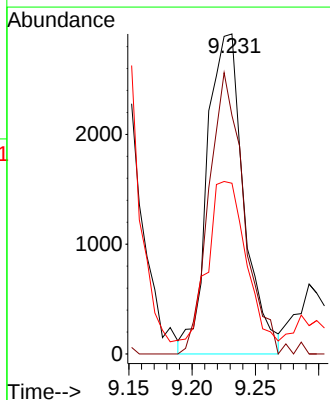
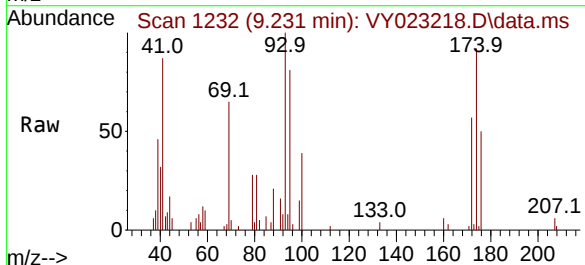
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 83 Resp: 16578
Ion Ratio Lower Upper
83 100
85 65.5 50.2 75.4
127 11.6 6.6 10.0#



#48
Methyl methacrylate
Concen: 2.444 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.018 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 41 Resp: 5850
Ion Ratio Lower Upper
41 100
69 84.4 73.2 109.8
39 51.5 47.0 70.4





#49

1,4-Dioxane

Concen: 57.605 ug/l

RT: 9.231 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023218.D

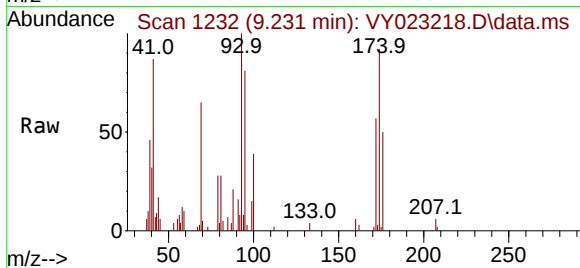
Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025



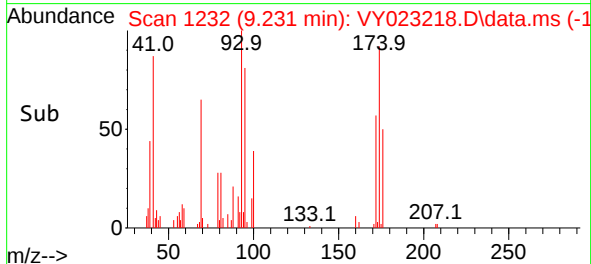
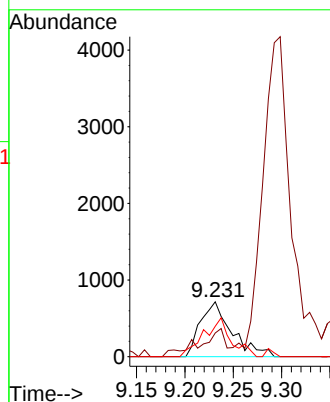
Tgt Ion: 88 Resp: 1620

Ion Ratio Lower Upper

88 100

43 25.0 24.3 36.5

58 61.3 55.4 83.0



#50

Toluene-d8

Concen: 50.319 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023218.D

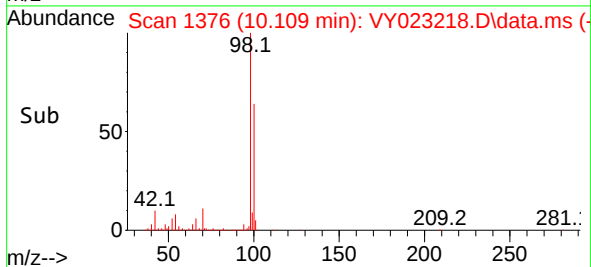
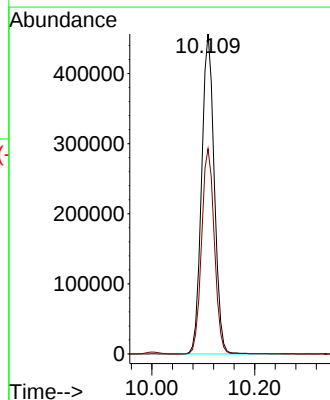
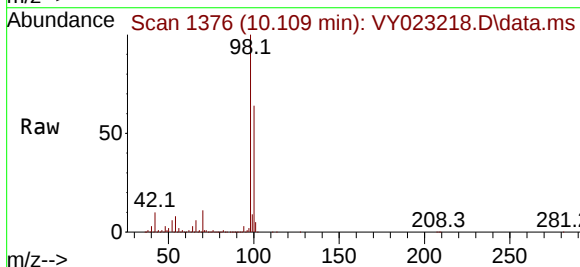
Acq: 28 Aug 2025 11:59

Tgt Ion: 98 Resp: 779415

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 10.551 ug/l

RT: 10.000 min Scan# 1358

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

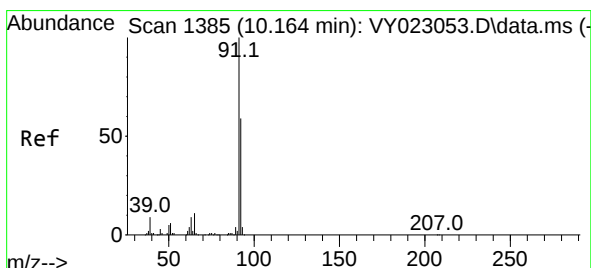
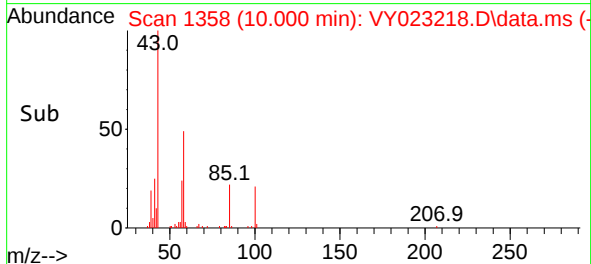
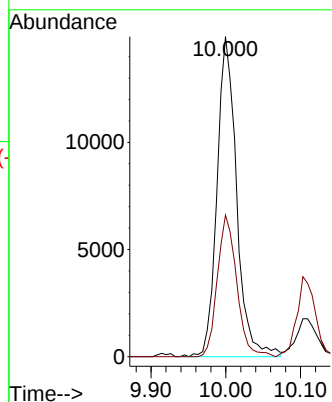
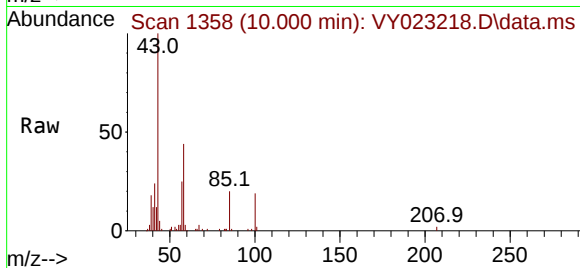
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 43 Resp: 27228

Ion Ratio Lower Upper

43 100

58 43.7 33.5 50.3



#52

Toluene

Concen: 2.663 ug/l

RT: 10.176 min Scan# 1387

Delta R.T. 0.012 min

Lab File: VY023218.D

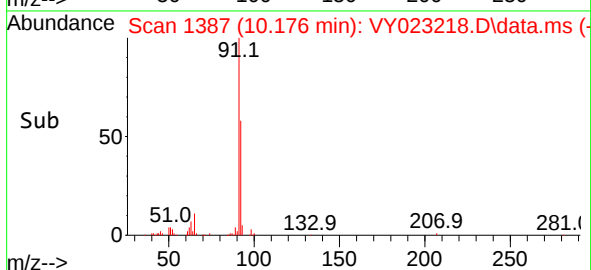
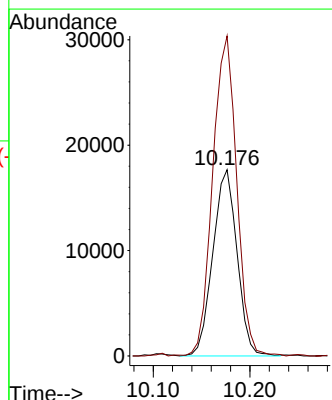
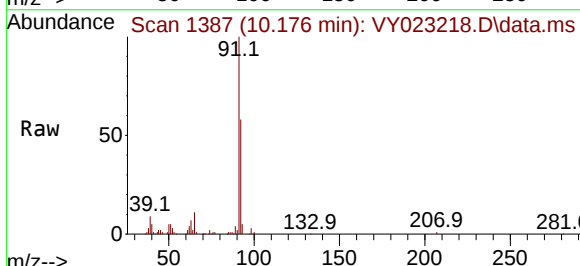
Acq: 28 Aug 2025 11:59

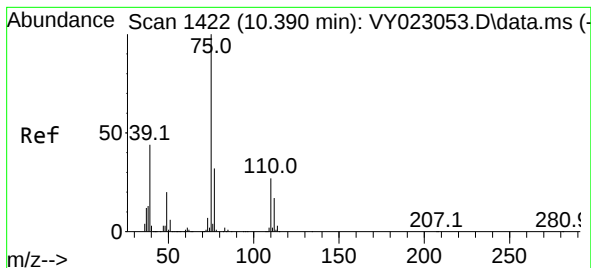
Tgt Ion: 92 Resp: 30715

Ion Ratio Lower Upper

92 100

91 170.4 136.4 204.6

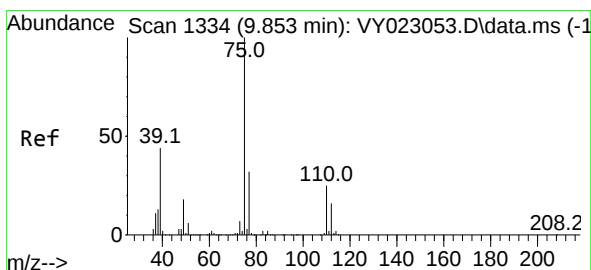
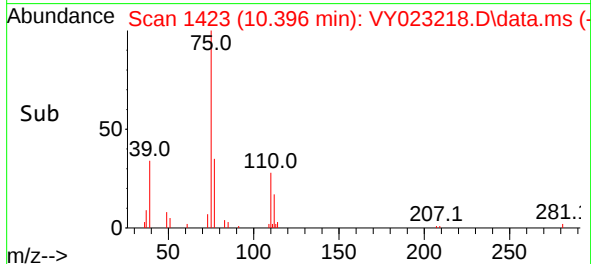
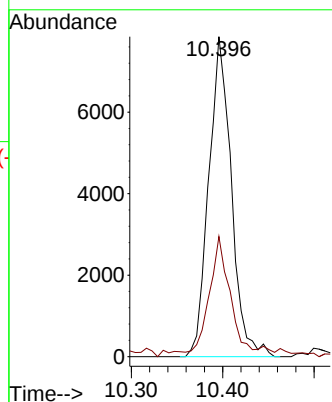
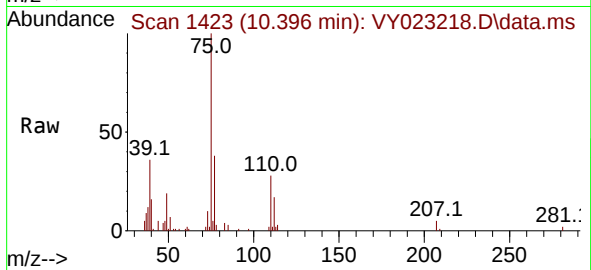




#53
t-1,3-Dichloropropene
Concen: 2.407 ug/l
RT: 10.396 min Scan# 1422
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

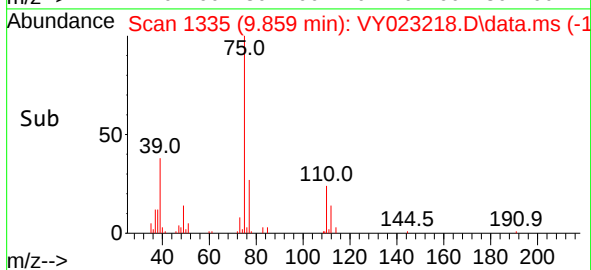
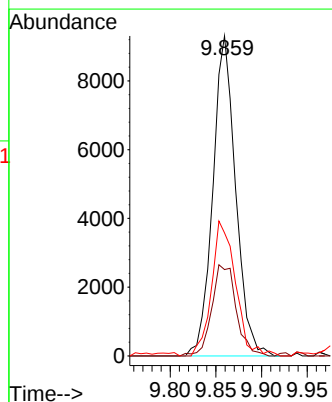
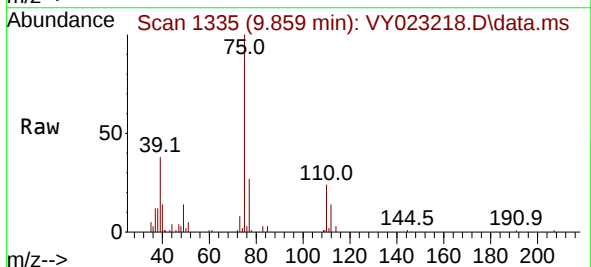
Instrument : MSVOA_Y
ClientSampleId : LOD-MDL-SOIL-01-QT3-2025

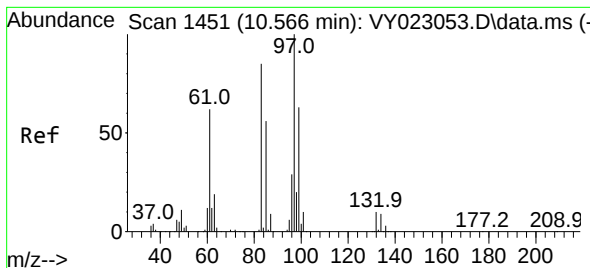
Tgt Ion: 75 Resp: 13453
Ion Ratio Lower Upper
75 100
77 36.0 25.7 38.5



#54
cis-1,3-Dichloropropene
Concen: 2.442 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 75 Resp: 16138
Ion Ratio Lower Upper
75 100
77 27.0 25.4 38.0
39 38.5 35.6 53.4





#55

1,1,2-Trichloroethane

Concen: 2.718 ug/l

RT: 10.579 min Scan# 1451

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 97 Resp: 8724

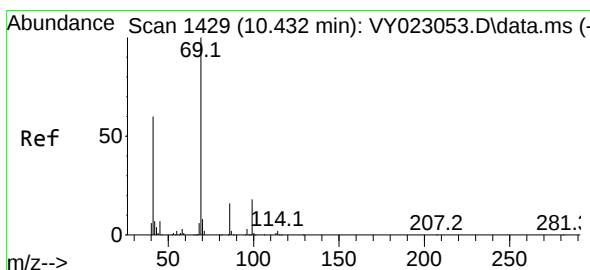
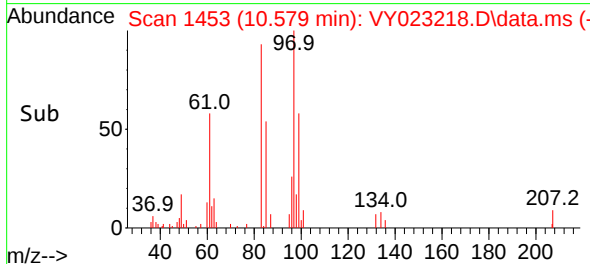
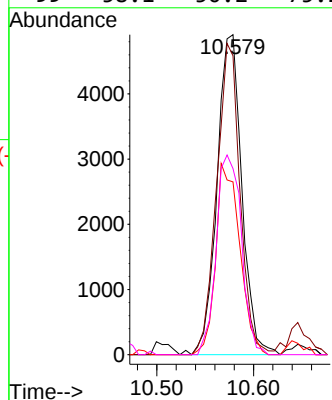
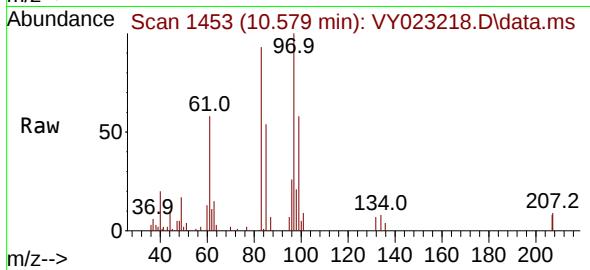
Ion Ratio Lower Upper

97 100

83 93.4 67.7 101.5

85 54.0 44.5 66.7

99 58.1 50.2 75.2



#56

Ethyl methacrylate

Concen: 2.108 ug/l

RT: 10.438 min Scan# 1430

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

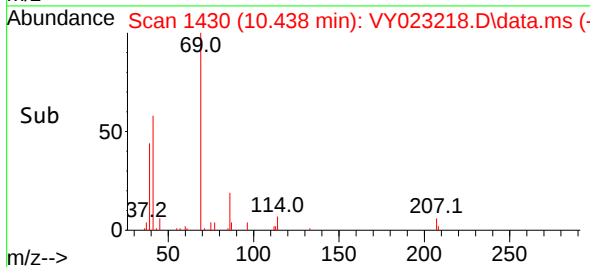
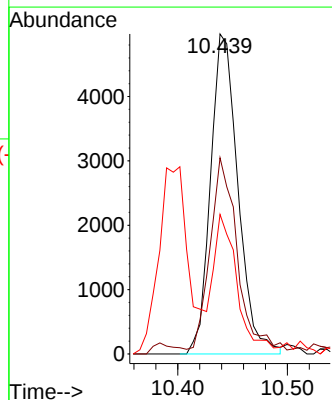
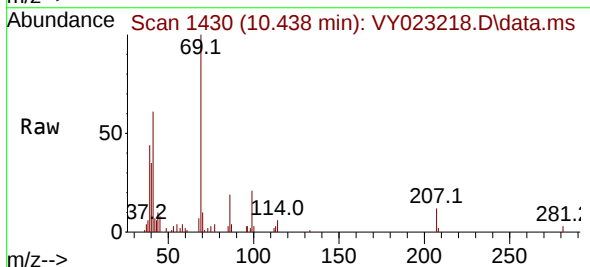
Tgt Ion: 69 Resp: 8658

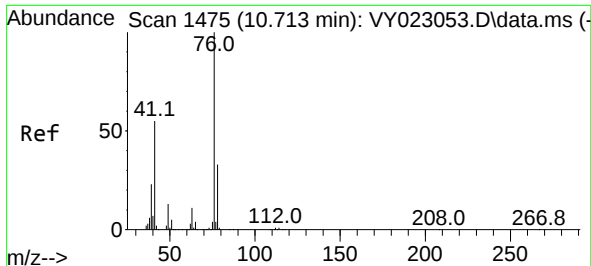
Ion Ratio Lower Upper

69 100

41 58.5 48.6 72.8

39 33.8 27.0 40.4





#57

1,3-Dichloropropane

Concen: 2.719 ug/l

RT: 10.719 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

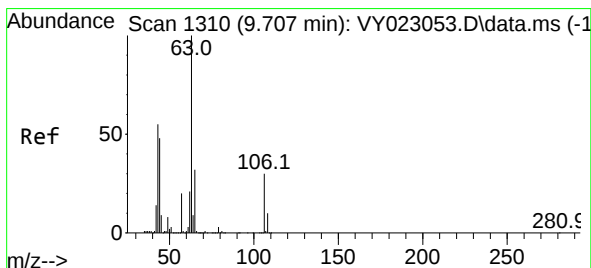
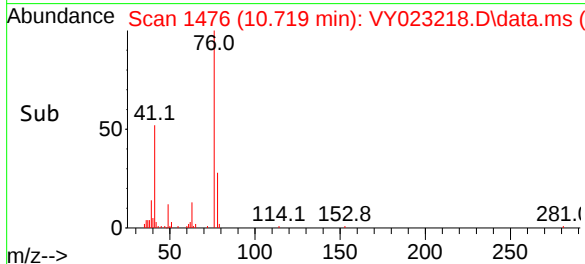
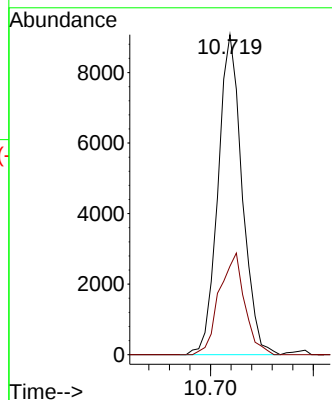
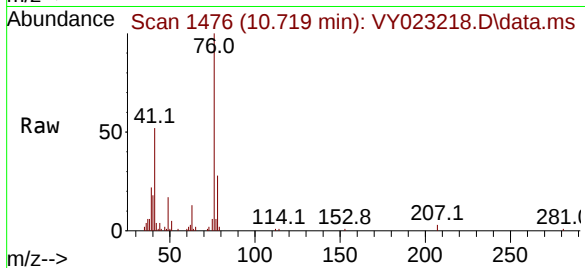
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 76 Resp: 14797

Ion Ratio Lower Upper

76 100

78 33.4 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 8.826 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.006 min

Lab File: VY023218.D

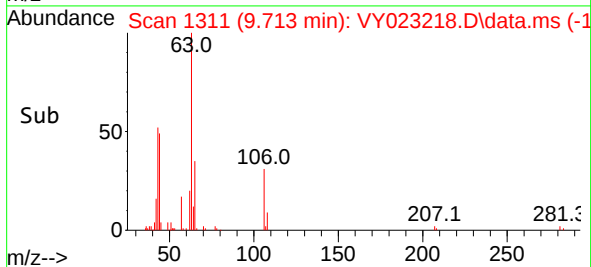
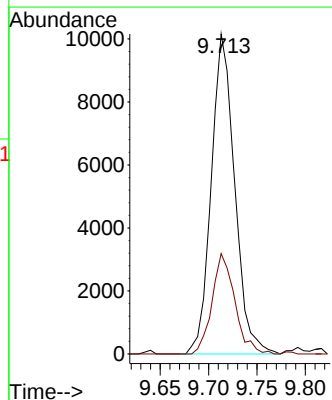
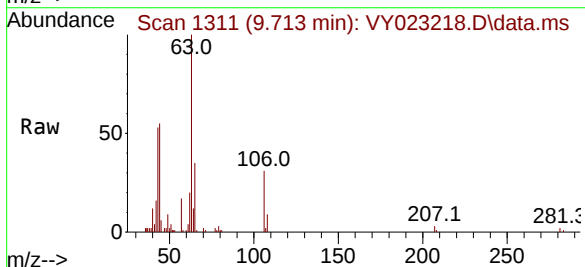
Acq: 28 Aug 2025 11:59

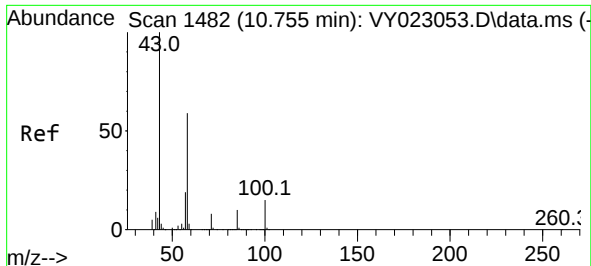
Tgt Ion: 63 Resp: 17098

Ion Ratio Lower Upper

63 100

106 30.5 23.2 34.8

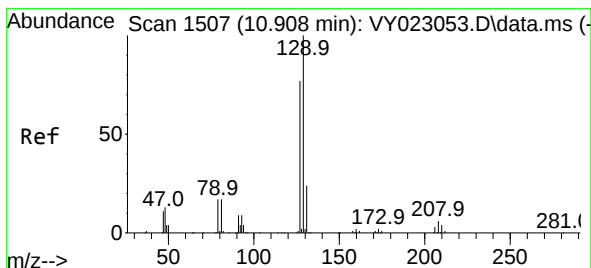
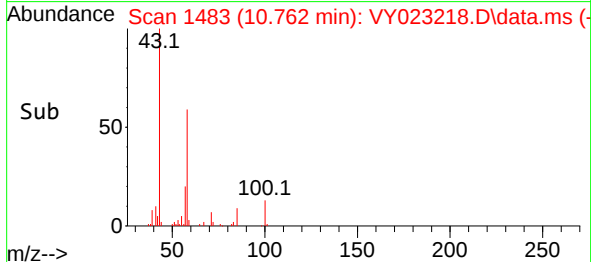
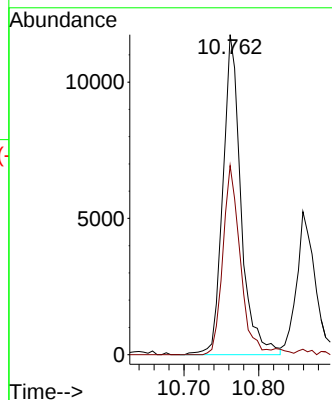
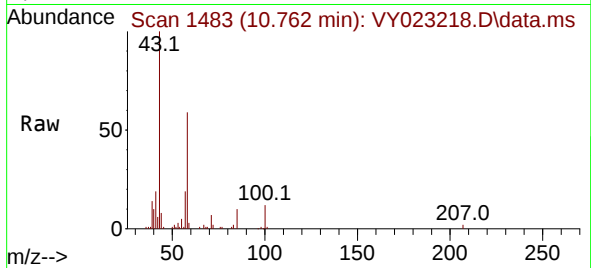




#59
2-Hexanone
Concen: 11.279 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

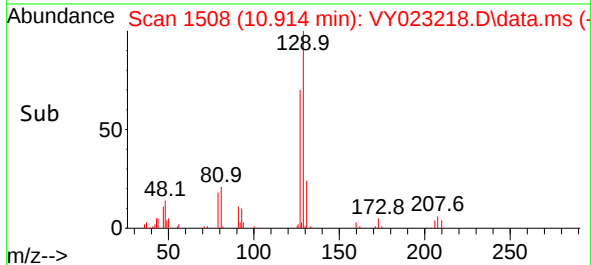
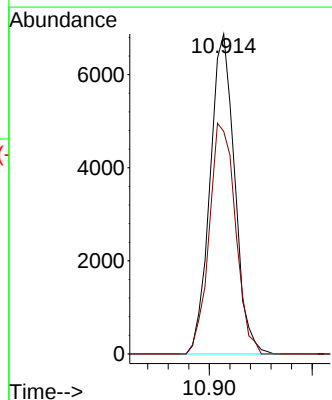
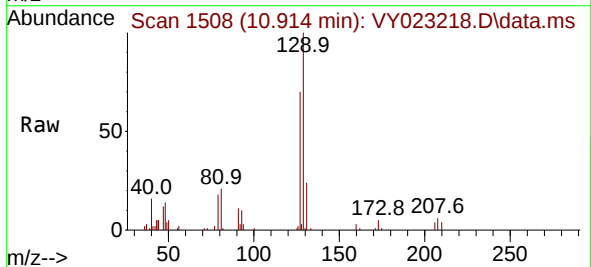
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

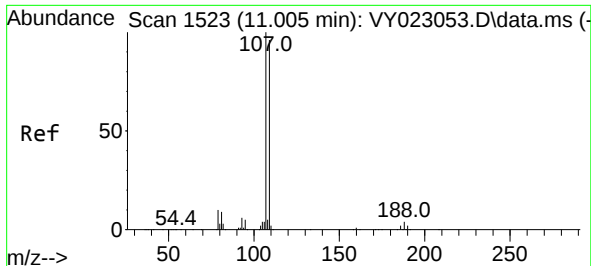
Tgt Ion: 43 Resp: 19819
Ion Ratio Lower Upper
43 100
58 56.7 29.5 88.5



#60
Dibromochloromethane
Concen: 2.700 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 129 Resp: 11432
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

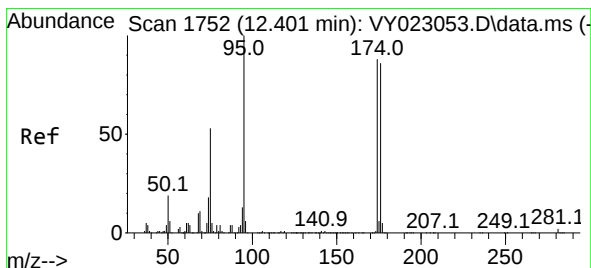
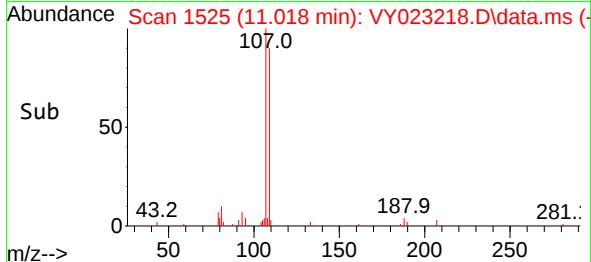
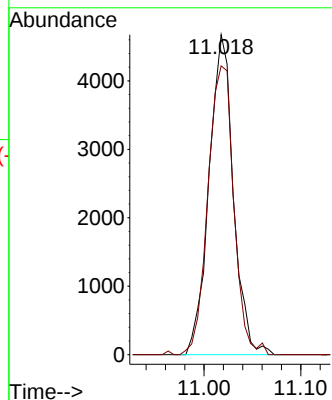
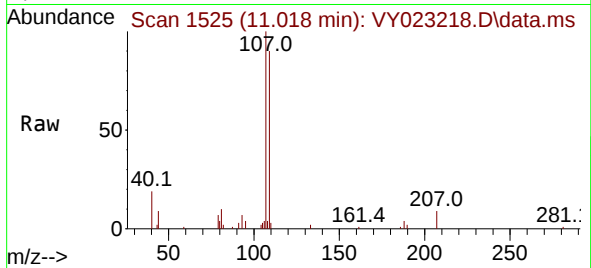




#61
1,2-Dibromoethane
Concen: 2.704 ug/l
RT: 11.018 min Scan# 1525
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

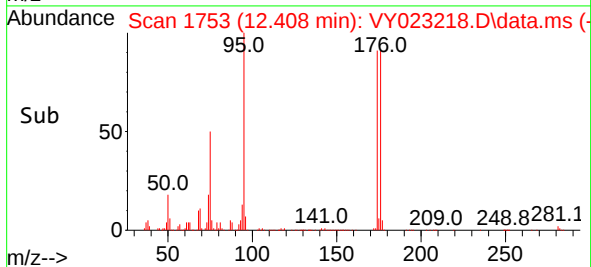
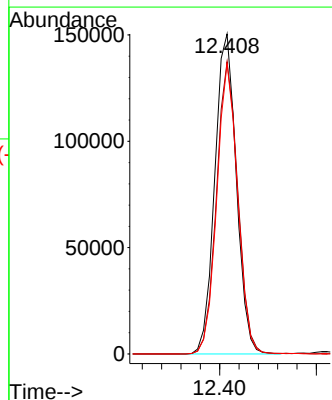
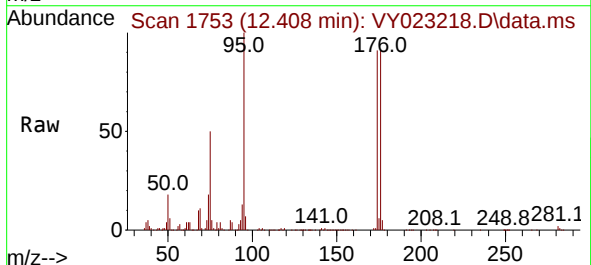
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

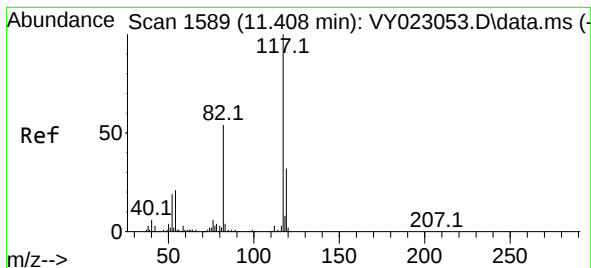
Tgt Ion:107 Resp: 8158
Ion Ratio Lower Upper
107 100
109 96.0 75.6 113.4



#62
4-Bromofluorobenzene
Concen: 46.664 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 95 Resp: 232451
Ion Ratio Lower Upper
95 100
174 90.6 0.0 171.6
176 87.7 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

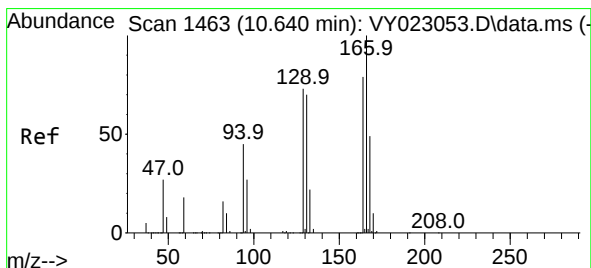
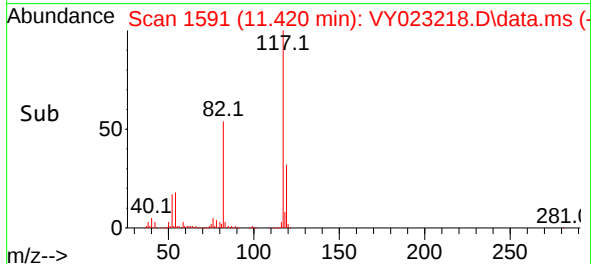
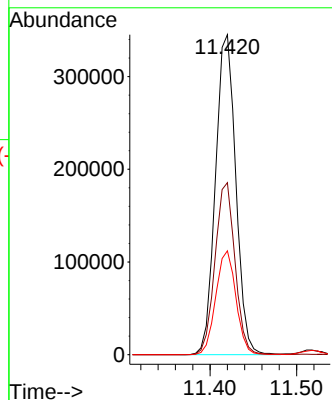
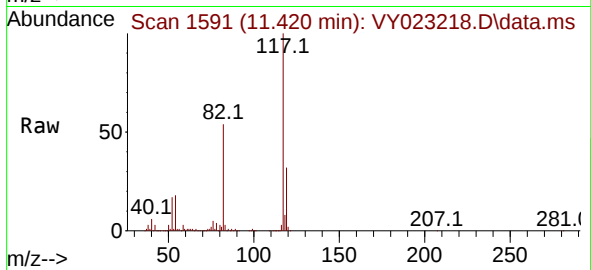
Tgt Ion:117 Resp: 562199

Ion Ratio Lower Upper

117 100

82 53.7 43.4 65.0

119 32.5 25.6 38.4



#64

Tetrachloroethene

Concen: 3.333 ug/l

RT: 10.646 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Tgt Ion:164 Resp: 16731

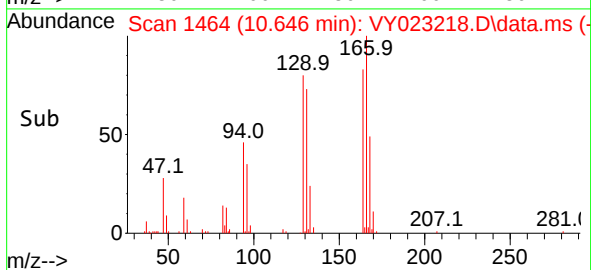
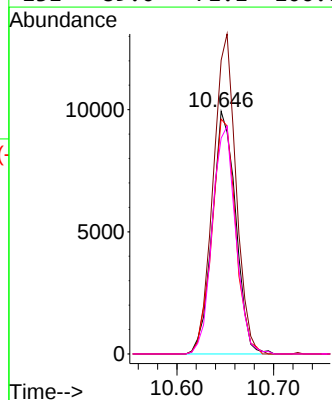
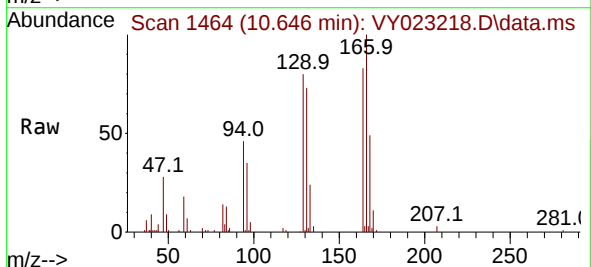
Ion Ratio Lower Upper

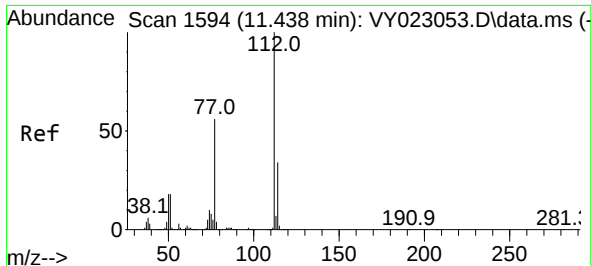
164 100

166 121.1 101.1 151.7

129 96.9 74.0 111.0

131 89.0 71.1 106.7

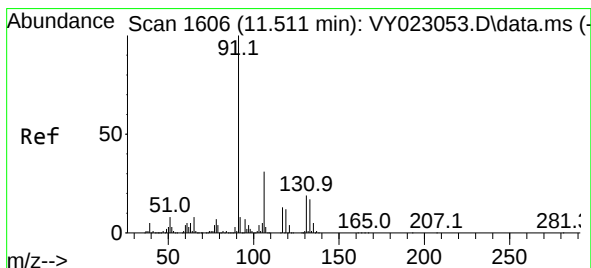
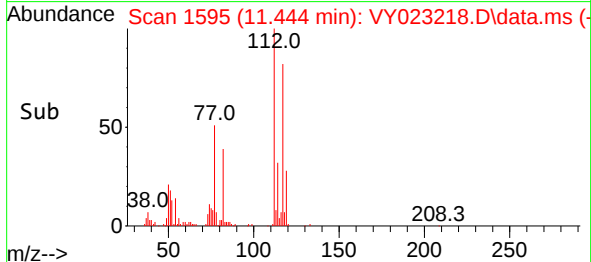
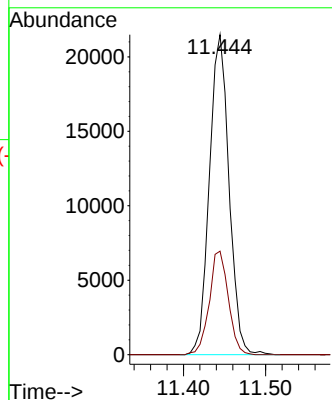
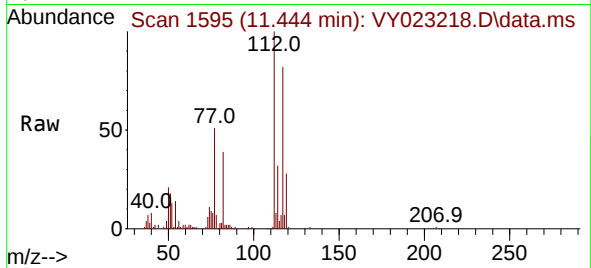




#65
Chlorobenzene
Concen: 2.939 ug/l
RT: 11.444 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

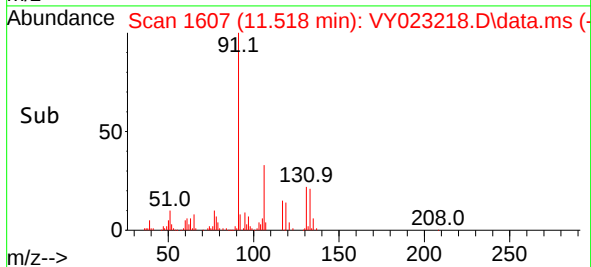
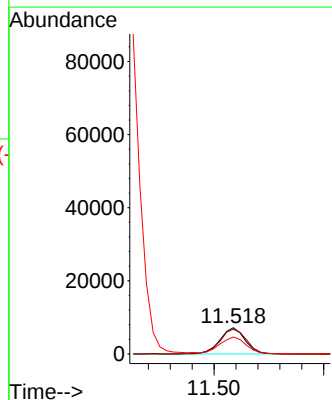
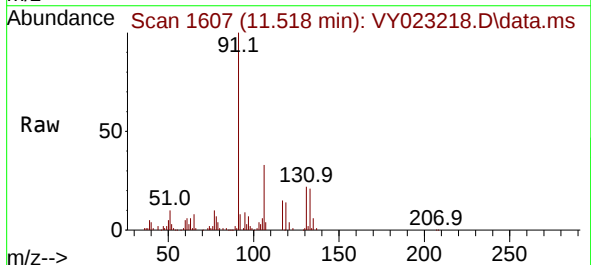
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

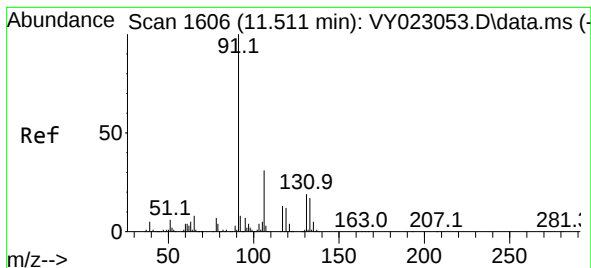
Tgt Ion:112 Resp: 35639
Ion Ratio Lower Upper
112 100
114 32.3 27.0 40.4



#66
1,1,1,2-Tetrachloroethane
Concen: 2.738 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion:131 Resp: 11270
Ion Ratio Lower Upper
131 100
133 102.1 46.9 140.6
119 69.5 33.2 99.6





#67

Ethyl Benzene

Concen: 2.570 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.012 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

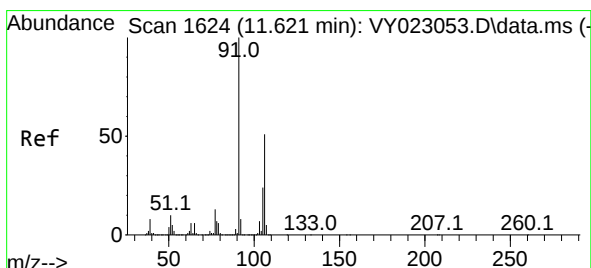
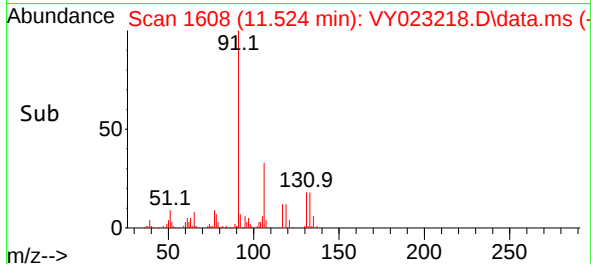
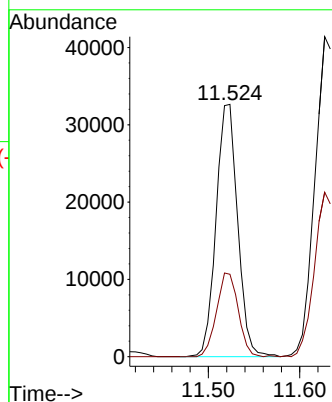
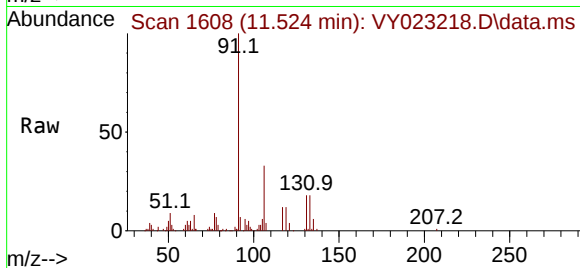
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 91 Resp: 53631

Ion Ratio Lower Upper

91 100

106 32.7 25.0 37.4



#68

m/p-Xylenes

Concen: 4.958 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.006 min

Lab File: VY023218.D

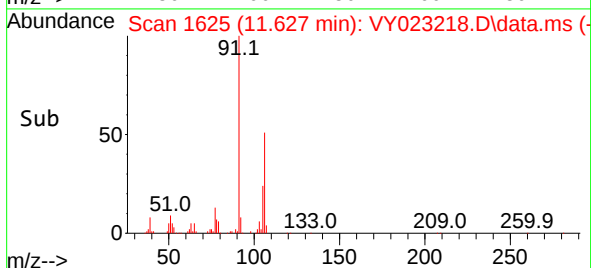
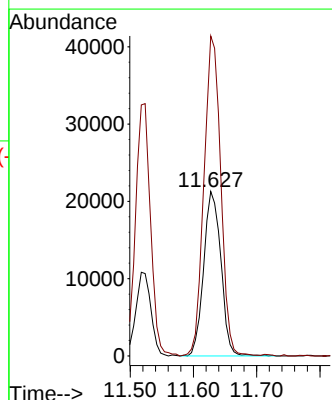
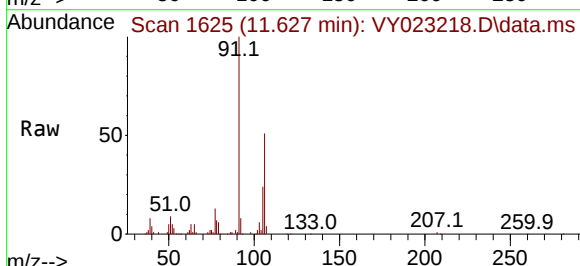
Acq: 28 Aug 2025 11:59

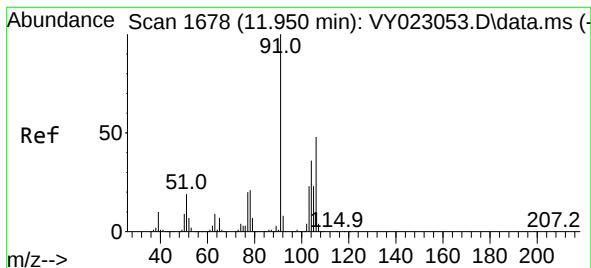
Tgt Ion:106 Resp: 40412

Ion Ratio Lower Upper

106 100

91 189.6 158.6 238.0





#69

o-Xylene

Concen: 2.441 ug/l

RT: 11.957 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

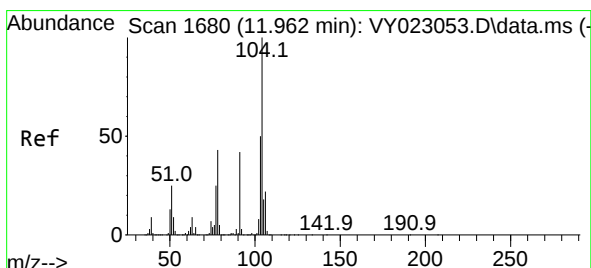
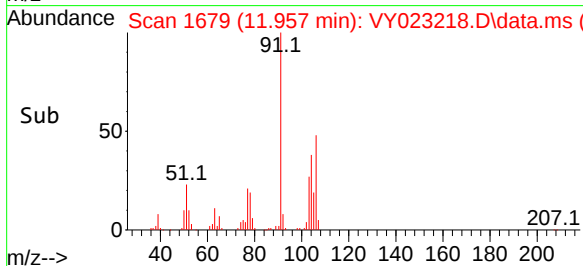
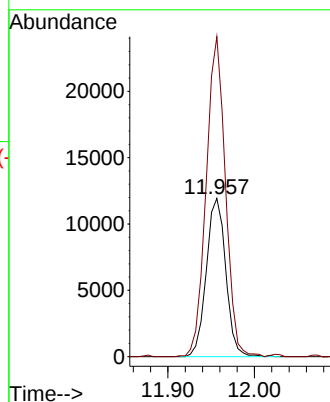
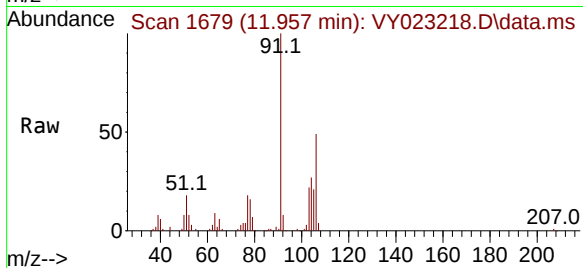
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:106 Resp: 18631

Ion Ratio Lower Upper

106 100

91 199.9 103.2 309.4



#70

Styrene

Concen: 2.360 ug/l

RT: 11.969 min Scan# 1681

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

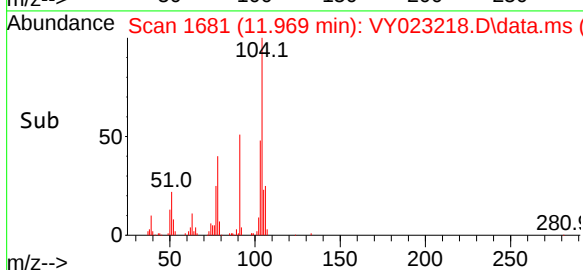
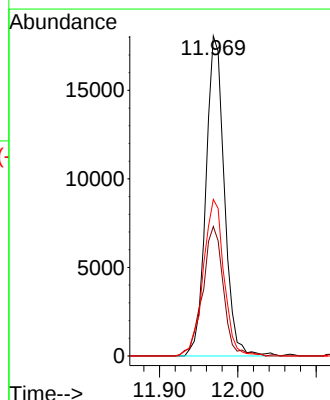
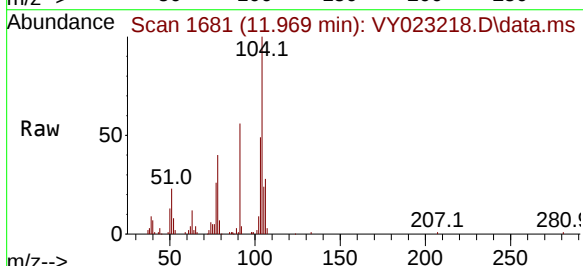
Tgt Ion:104 Resp: 29459

Ion Ratio Lower Upper

104 100

78 45.5 38.5 57.7

103 55.0 43.7 65.5





#71

Bromoform

Concen: 3.122 ug/l

RT: 12.133 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

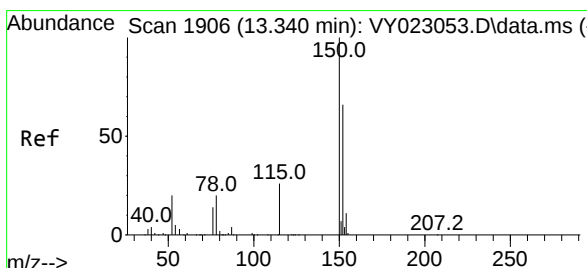
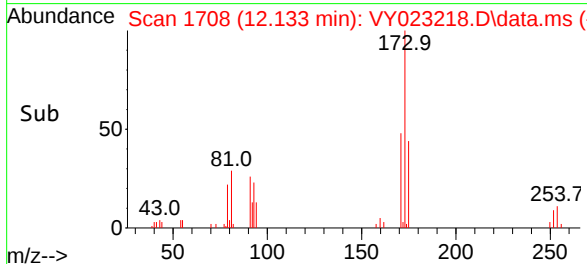
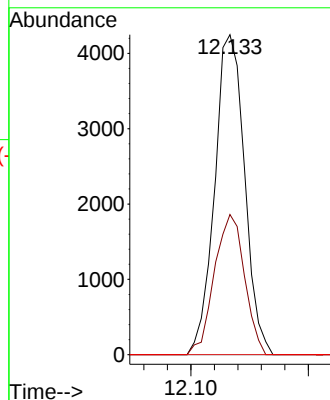
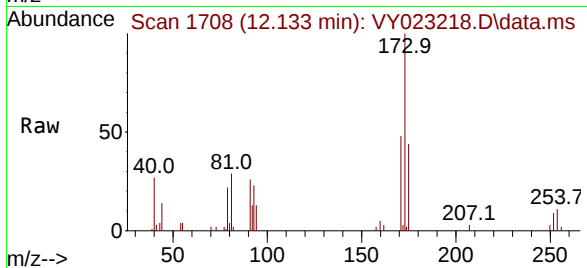
Tgt Ion:173 Resp: 7510

Ion Ratio Lower Upper

173 100

175 44.2 23.9 71.7

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

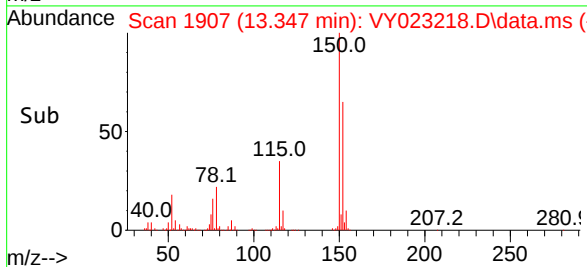
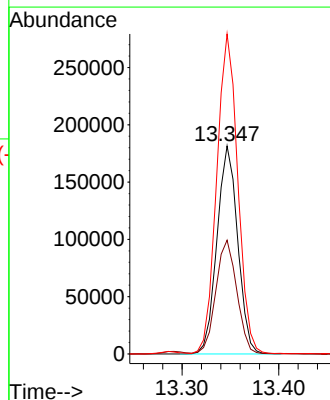
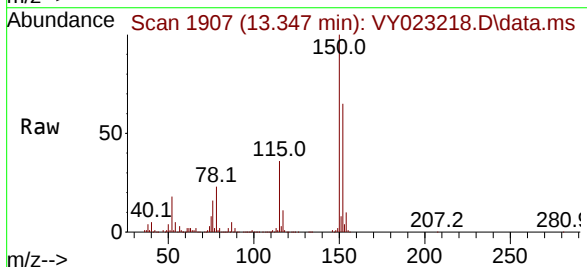
Tgt Ion:152 Resp: 269924

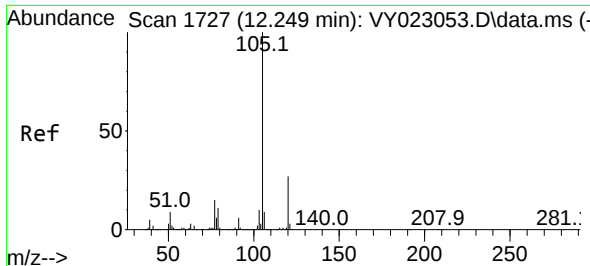
Ion Ratio Lower Upper

152 100

115 55.2 28.2 84.6

150 155.8 0.0 348.0

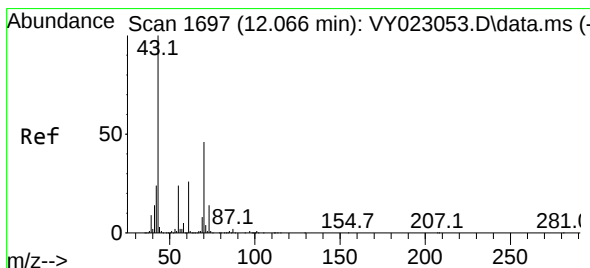
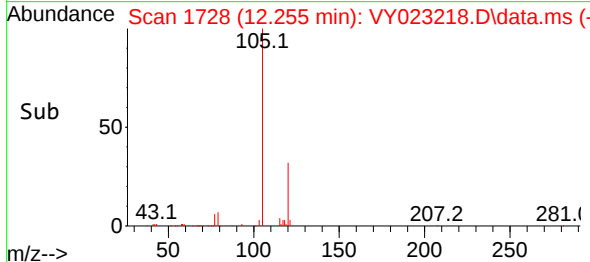
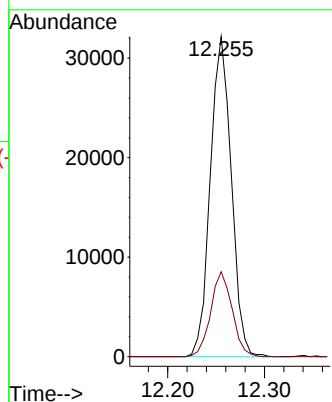
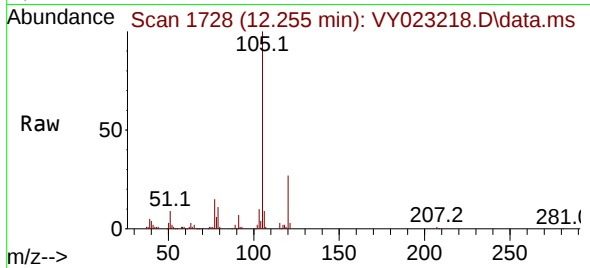




#73
Isopropylbenzene
Concen: 2.545 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

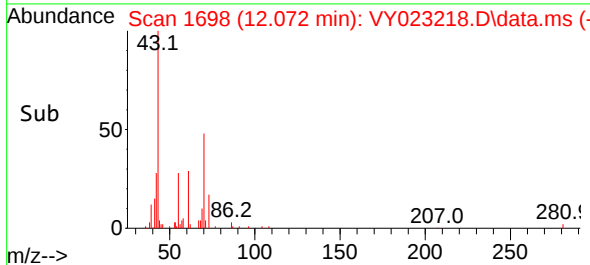
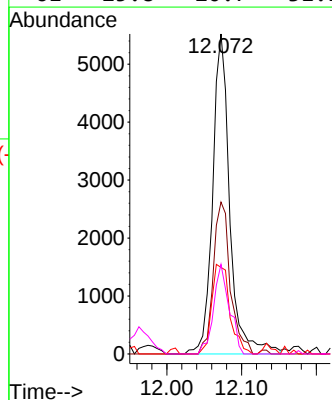
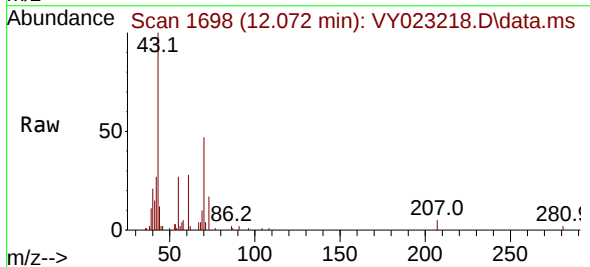
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

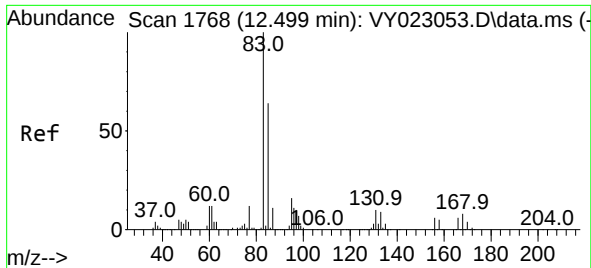
Tgt Ion:105 Resp: 48491
Ion Ratio Lower Upper
105 100
120 27.0 13.4 40.2



#74
N-ethyl acetate
Concen: 2.178 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 43 Resp: 8798
Ion Ratio Lower Upper
43 100
70 47.3 37.5 56.3
55 29.6 20.7 31.1
61 25.8 20.7 31.1

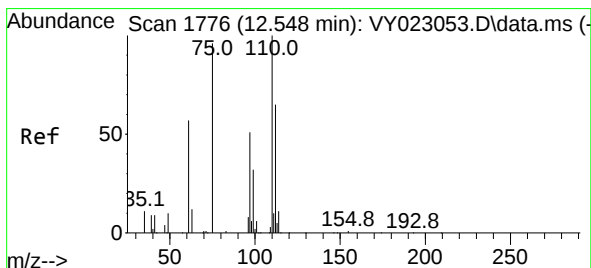
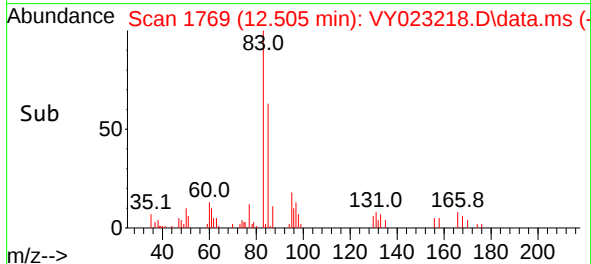
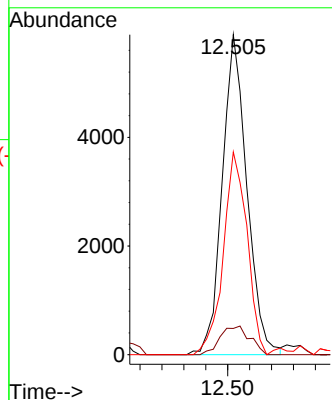
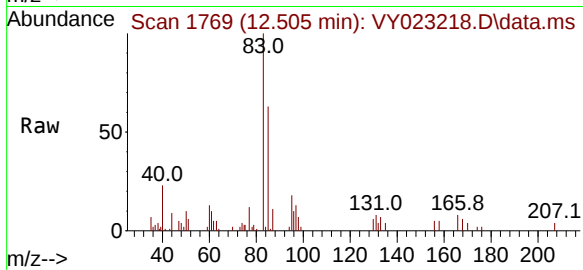




#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.831 ug/l
 RT: 12.505 min Scan# 1769
 Delta R.T. 0.006 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

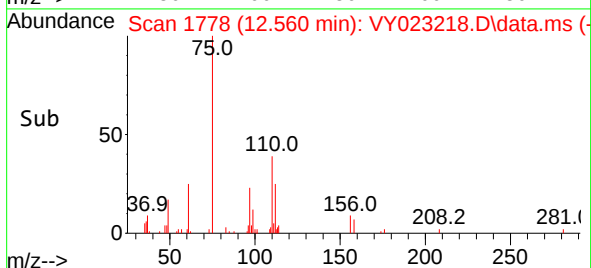
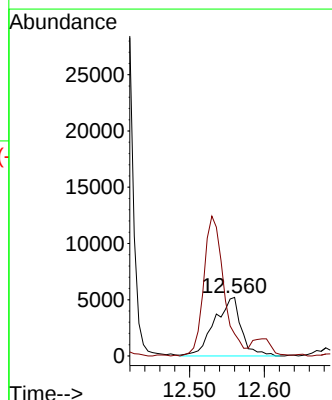
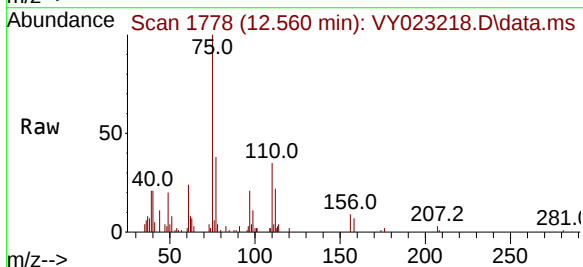
Instrument : MSVOA_Y
 ClientSampleId : LOD-MDL-SOIL-01-QT3-2025

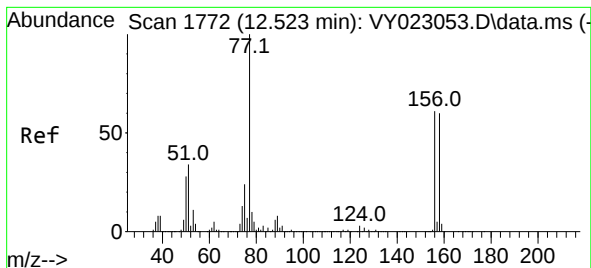
Tgt Ion: 83 Resp: 9209
 Ion Ratio Lower Upper
 83 100
 131 10.8 5.1 15.3
 85 61.3 31.8 95.3



#76
 1,2,3-Trichloropropane
 Concen: 4.981 ug/l
 RT: 12.560 min Scan# 1778
 Delta R.T. 0.012 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

Tgt Ion: 75 Resp: 12975
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 2.974 ug/l

RT: 12.530 min Scan# 1773

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

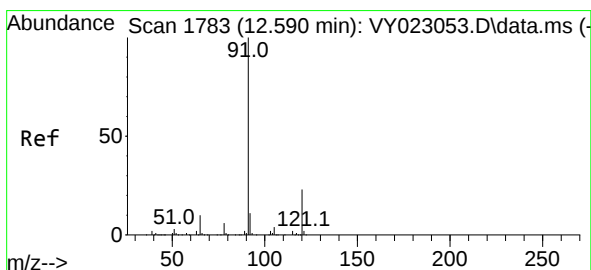
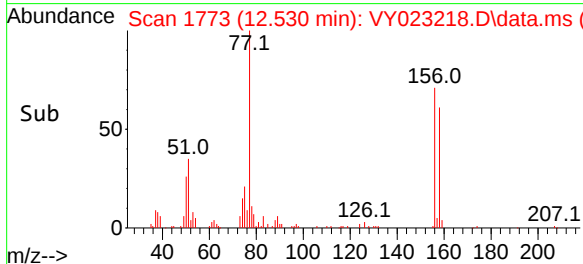
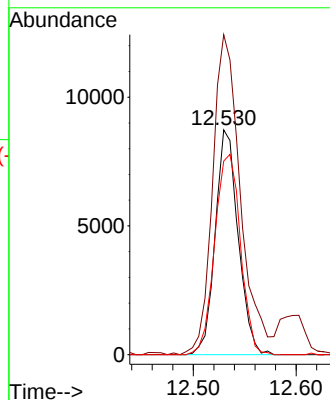
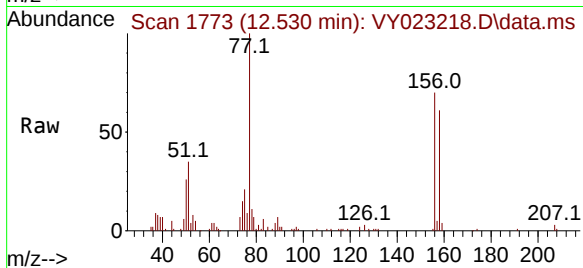
Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:	156	Resp:	13517
Ion Ratio	Lower	Upper	
156	100		
77	171.7	88.1	264.4
158	100.0	48.0	144.0



#78

n-propylbenzene

Concen: 2.734 ug/l

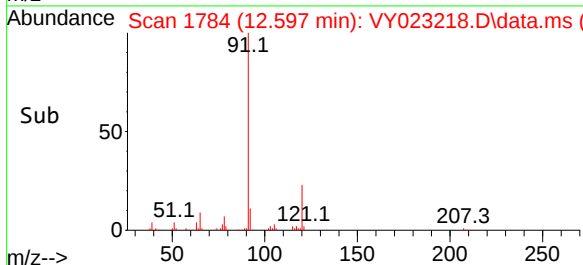
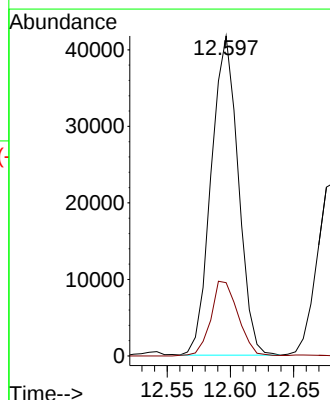
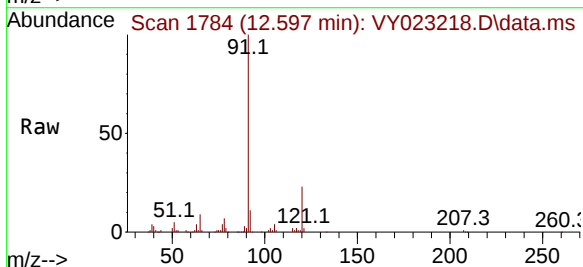
RT: 12.597 min Scan# 1784

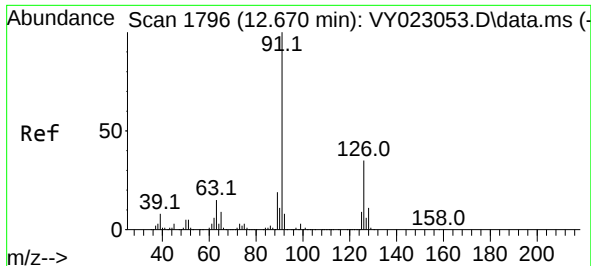
Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Tgt Ion:	91	Resp:	62003
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.5	34.5

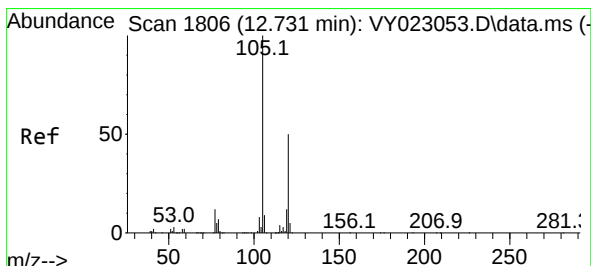
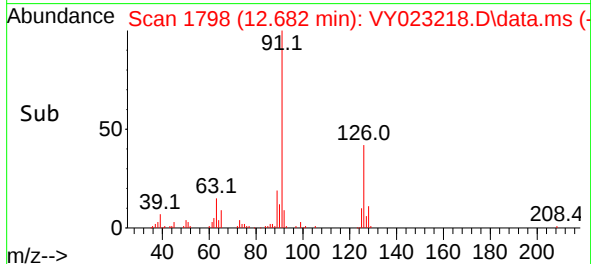
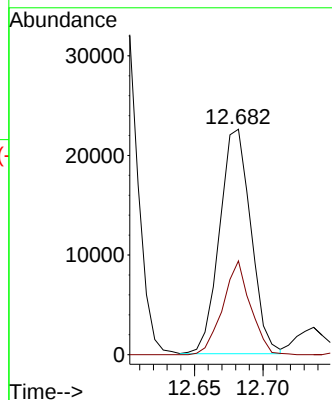
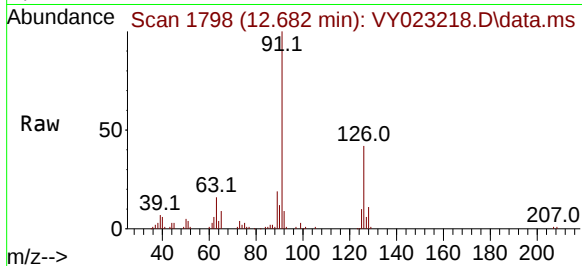




#79
2-Chlorotoluene
Concen: 2.758 ug/l
RT: 12.682 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

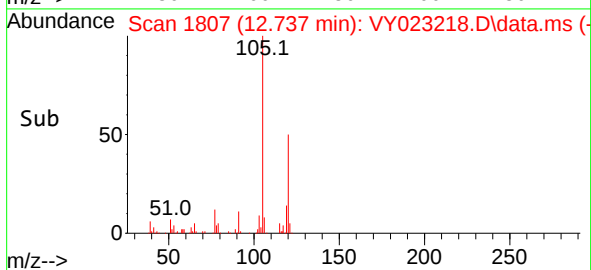
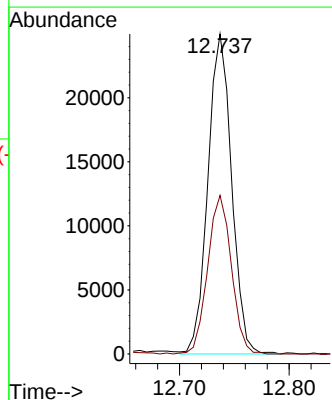
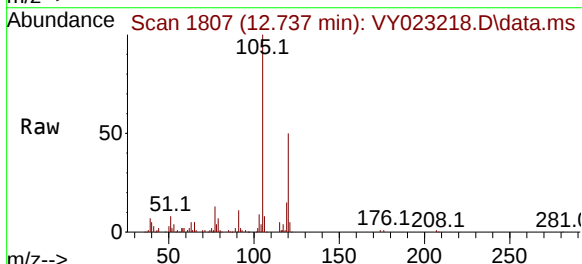
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

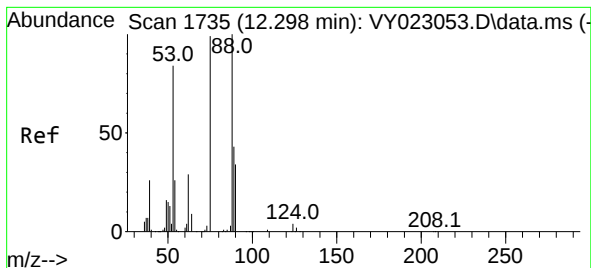
Tgt Ion: 91 Resp: 35839
Ion Ratio Lower Upper
91 100
126 36.8 17.4 52.3



#80
1,3,5-Trimethylbenzene
Concen: 2.437 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 105 Resp: 37527
Ion Ratio Lower Upper
105 100
120 49.7 24.8 74.4

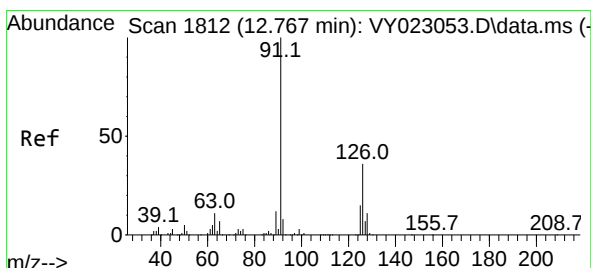
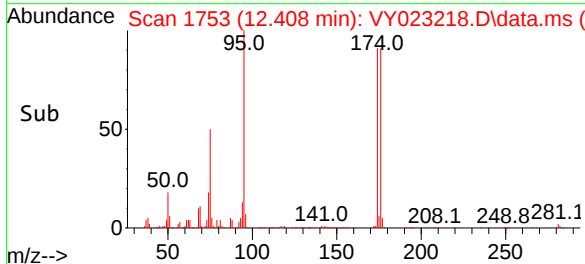
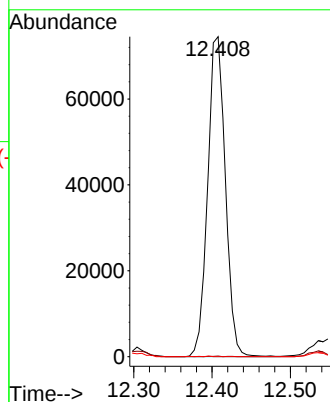
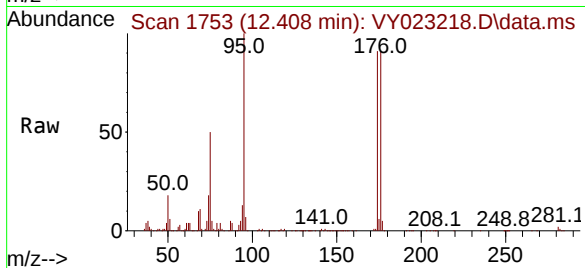




#81
trans-1,4-Dichloro-2-butene
Concen: 108.513 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

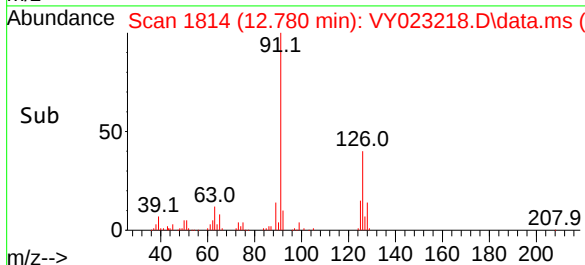
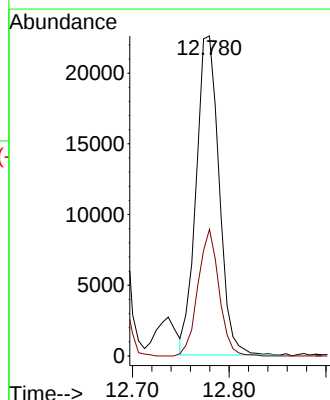
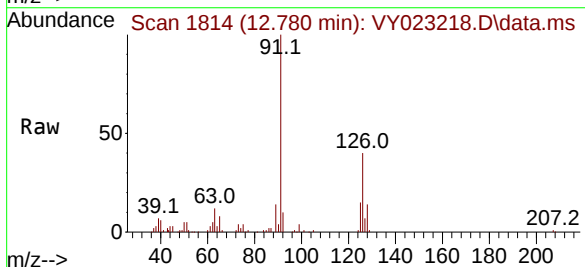
Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion: 75 Resp: 116778
Ion Ratio Lower Upper
75 100
53 0.1 70.8 106.2#
89 0.1 38.1 57.1#



#82
4-Chlorotoluene
Concen: 2.761 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.012 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion: 91 Resp: 37219
Ion Ratio Lower Upper
91 100
126 36.4 17.3 52.0





#83

tert-Butylbenzene

Concen: 2.590 ug/l

RT: 12.999 min Scan# 1850

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

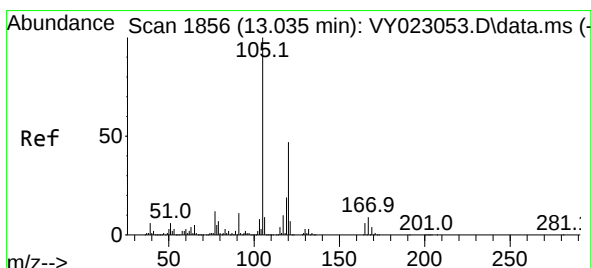
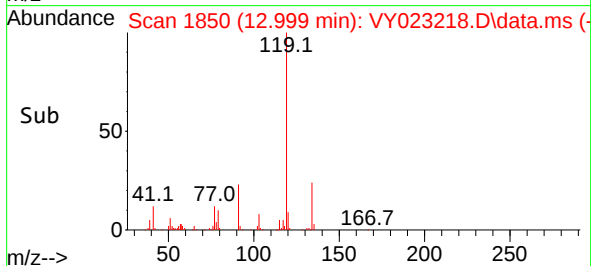
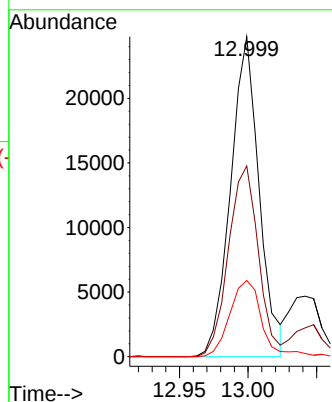
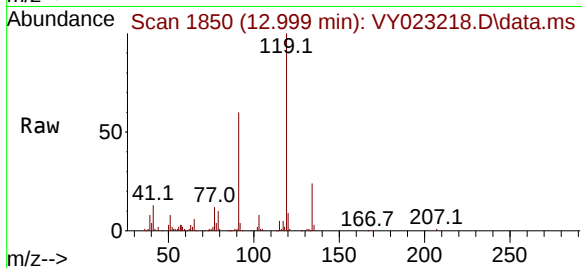
Tgt Ion:119 Resp: 36014

Ion Ratio Lower Upper

119 100

91 62.4 31.6 94.8

134 26.7 12.9 38.7



#84

1,2,4-Trimethylbenzene

Concen: 2.411 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.006 min

Lab File: VY023218.D

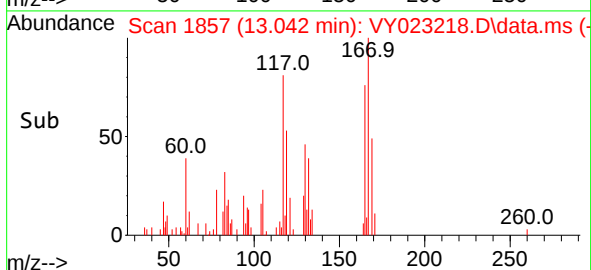
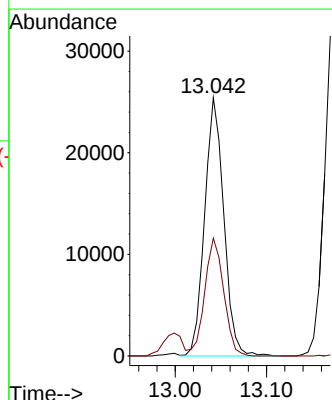
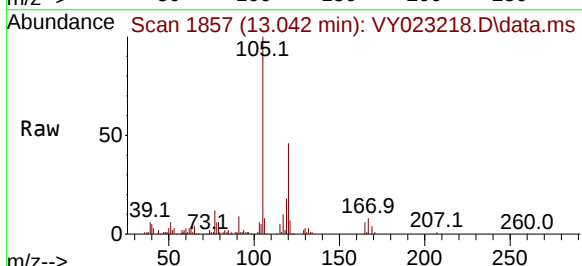
Acq: 28 Aug 2025 11:59

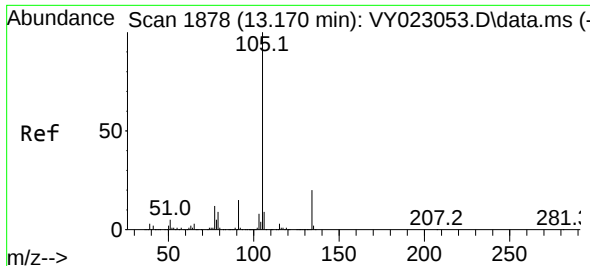
Tgt Ion:105 Resp: 36955

Ion Ratio Lower Upper

105 100

120 45.3 23.0 69.0

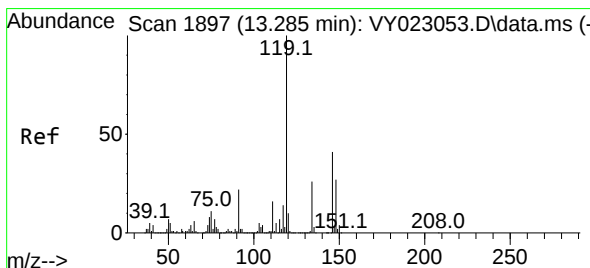
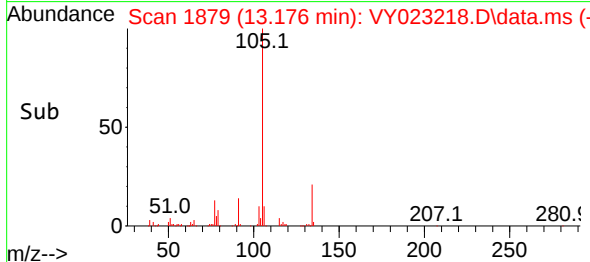
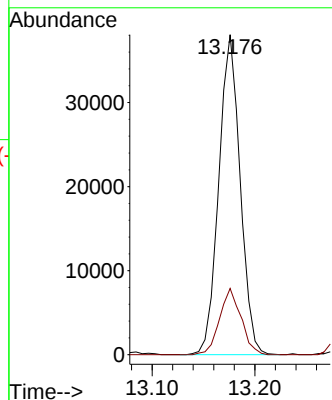
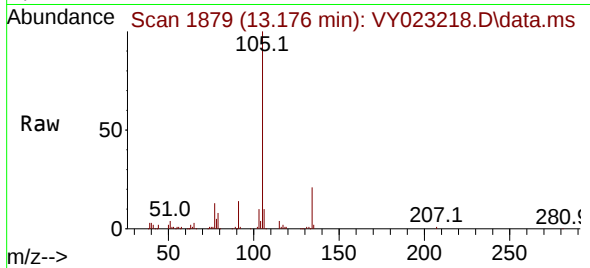




#85
 sec-Butylbenzene
 Concen: 2.687 ug/l
 RT: 13.176 min Scan# 1878
 Delta R.T. 0.006 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

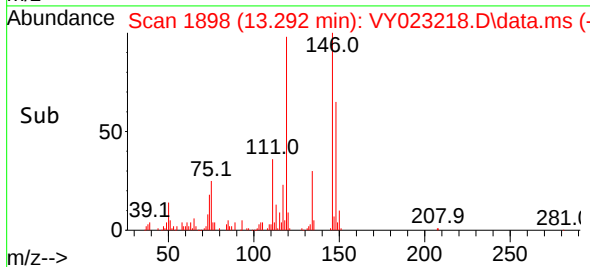
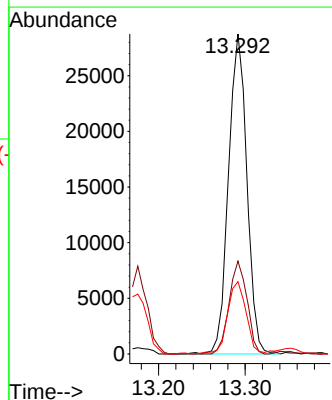
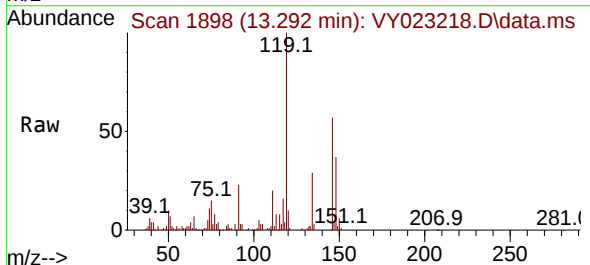
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2025

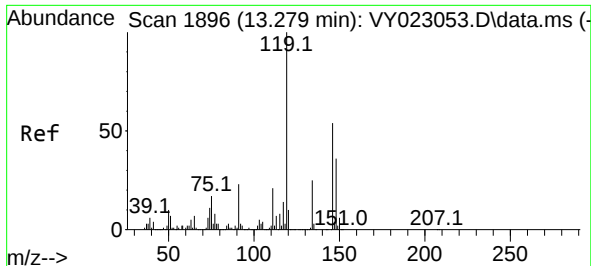
Tgt Ion:105 Resp: 54892
 Ion Ratio Lower Upper
 105 100
 134 20.8 10.2 30.4



#86
 p-Isopropyltoluene
 Concen: 2.500 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. 0.006 min
 Lab File: VY023218.D
 Acq: 28 Aug 2025 11:59

Tgt Ion:119 Resp: 42398
 Ion Ratio Lower Upper
 119 100
 134 28.1 13.2 39.6
 91 22.8 11.3 33.8





#87

1,3-Dichlorobenzene

Concen: 3.114 ug/l

RT: 13.286 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

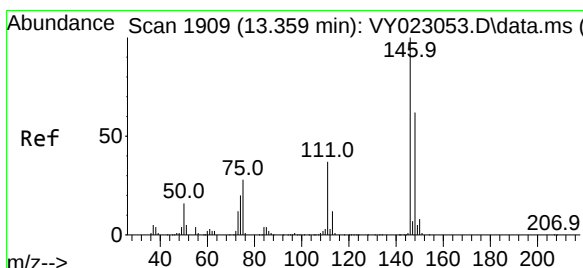
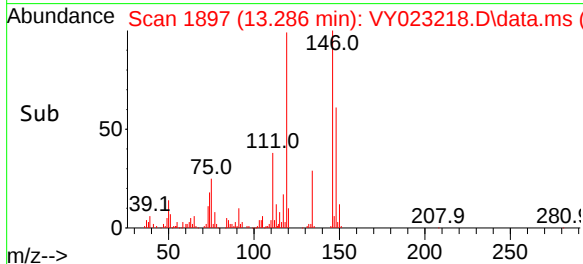
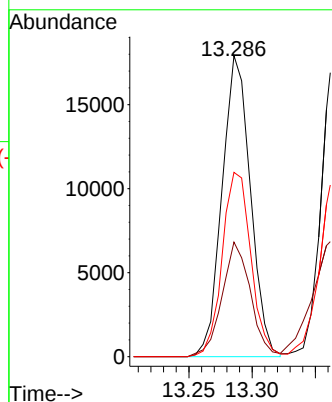
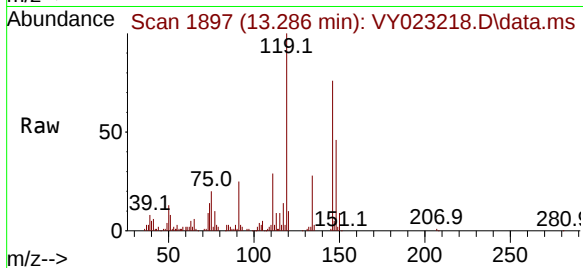
Tgt Ion:146 Resp: 27911

Ion Ratio Lower Upper

146 100

111 38.2 19.6 58.7

148 62.3 32.5 97.5



#88

1,4-Dichlorobenzene

Concen: 3.273 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

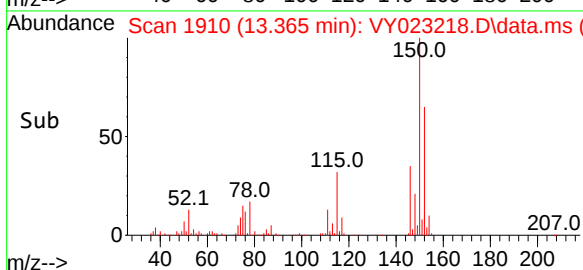
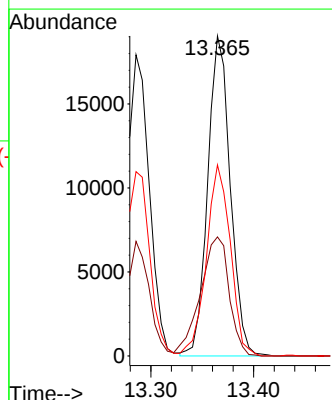
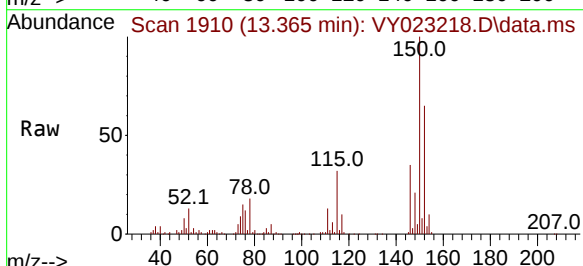
Tgt Ion:146 Resp: 29103

Ion Ratio Lower Upper

146 100

111 47.5 19.1 57.1

148 63.4 31.6 94.7





#89

n-Butylbenzene

Concen: 2.577 ug/l

RT: 13.615 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

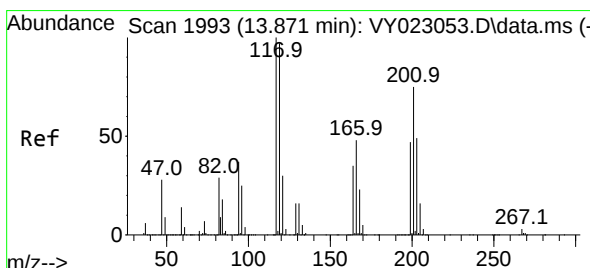
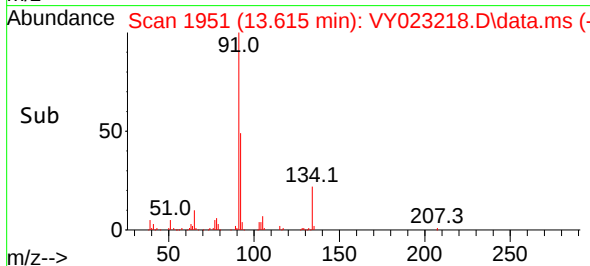
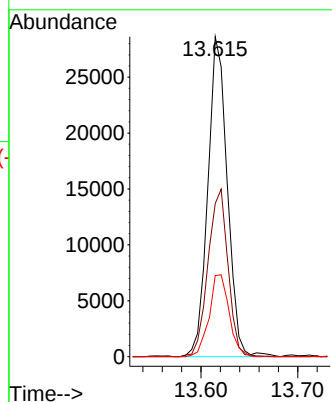
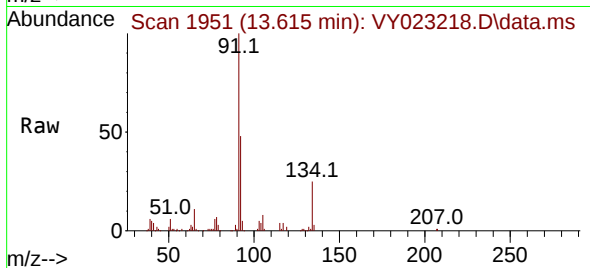
Tgt Ion: 91 Resp: 40127

Ion Ratio Lower Upper

91 100

92 53.6 26.9 80.7

134 26.3 13.2 39.5



#90

Hexachloroethane

Concen: 3.187 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.006 min

Lab File: VY023218.D

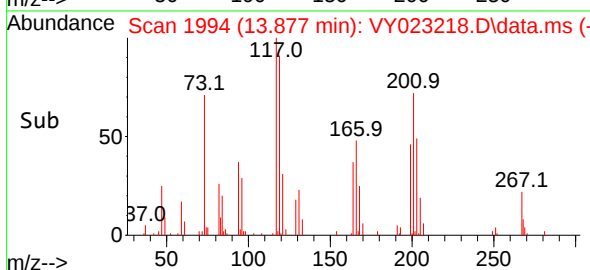
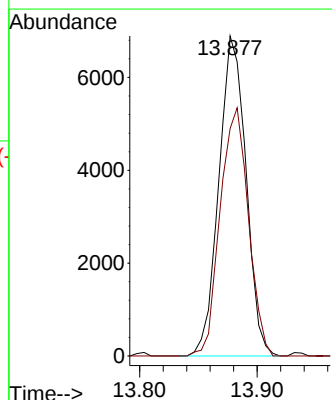
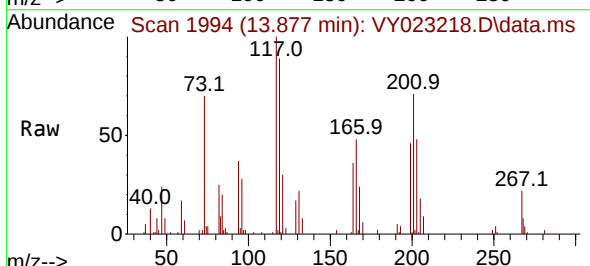
Acq: 28 Aug 2025 11:59

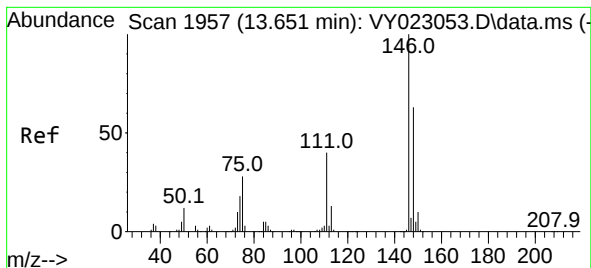
Tgt Ion: 117 Resp: 11062

Ion Ratio Lower Upper

117 100

201 80.6 38.4 115.1





#91

1,2-Dichlorobenzene

Concen: 3.118 ug/l

RT: 13.657 min Scan# 1957

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

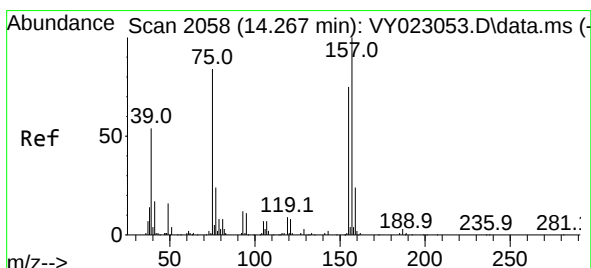
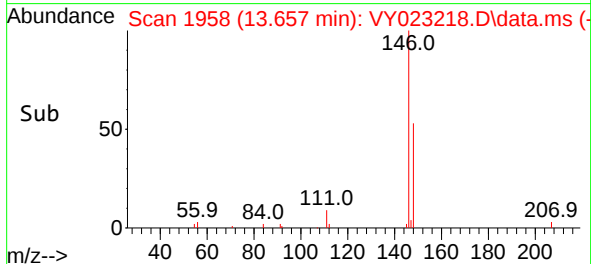
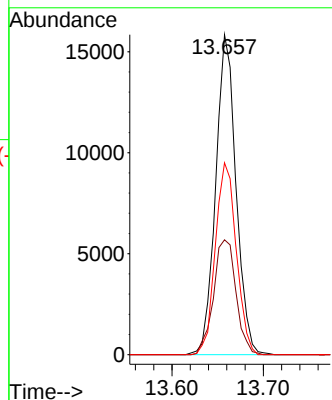
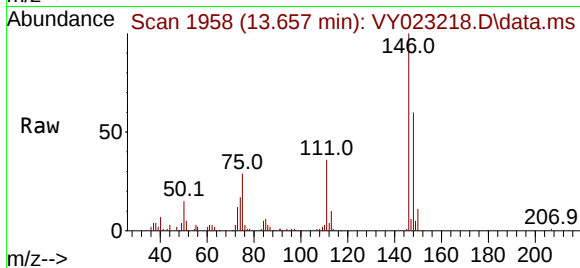
Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:146	Resp:	24511
Ion Ratio	Lower	Upper
146	100	
111	39.8	20.3 60.8
148	61.7	32.2 96.6



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.031 ug/l

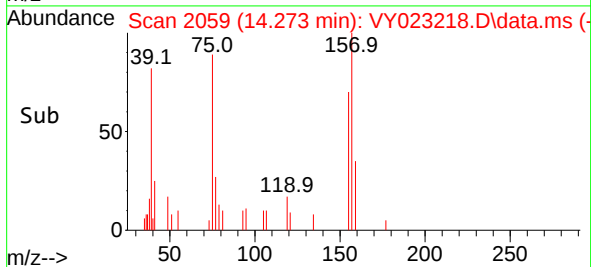
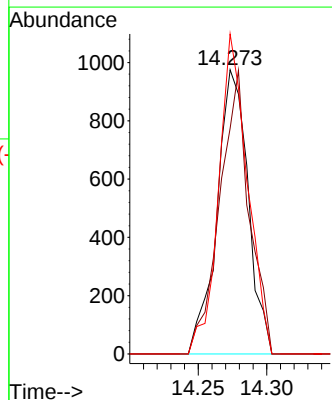
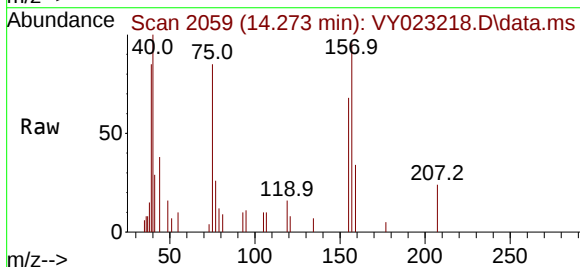
RT: 14.273 min Scan# 2059

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

Tgt Ion: 75	Resp:	1535
Ion Ratio	Lower	Upper
75	100	
155	95.5	43.9 131.6
157	104.6	57.2 171.6





#93

1,2,4-Trichlorobenzene

Concen: 3.096 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.006 min

Lab File: VY023218.D

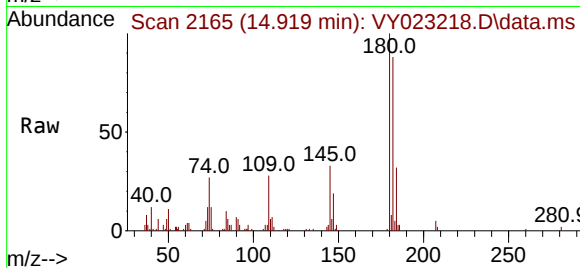
Acq: 28 Aug 2025 11:59

Instrument :

MSVOA_Y

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2025



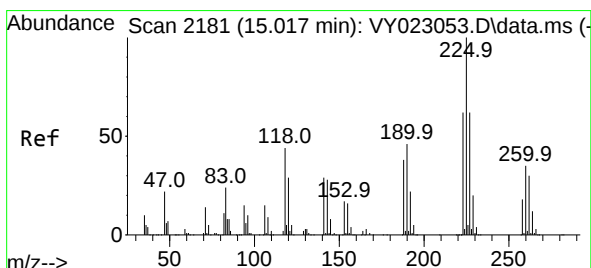
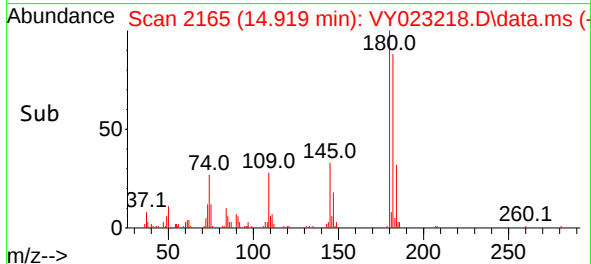
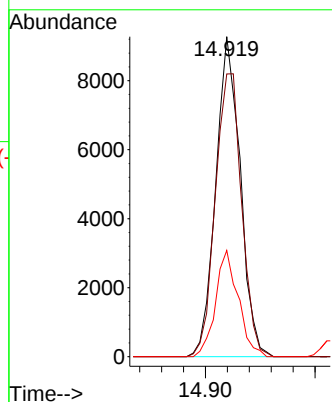
Tgt Ion:180 Resp: 14389

Ion Ratio Lower Upper

180 100

182 95.1 46.8 140.4

145 30.8 14.4 43.4



#94

Hexachlorobutadiene

Concen: 3.751 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.006 min

Lab File: VY023218.D

Acq: 28 Aug 2025 11:59

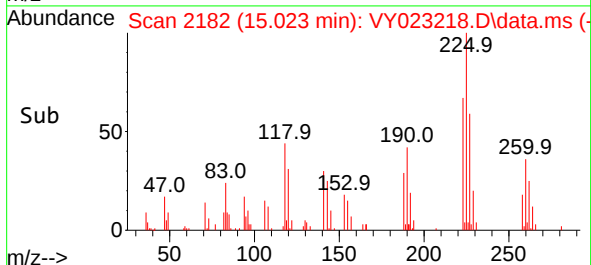
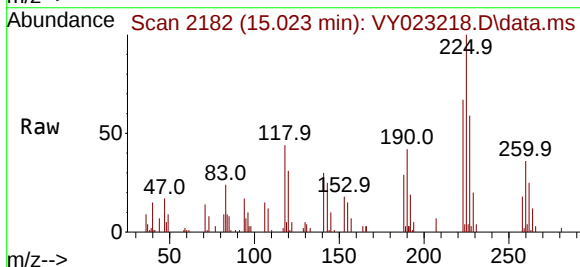
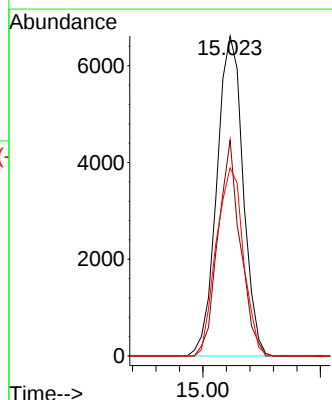
Tgt Ion:225 Resp: 10247

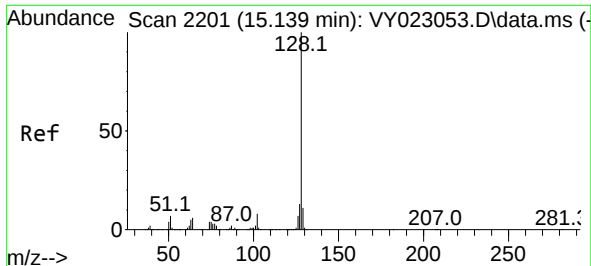
Ion Ratio Lower Upper

225 100

223 57.6 31.3 93.8

227 60.8 31.5 94.5

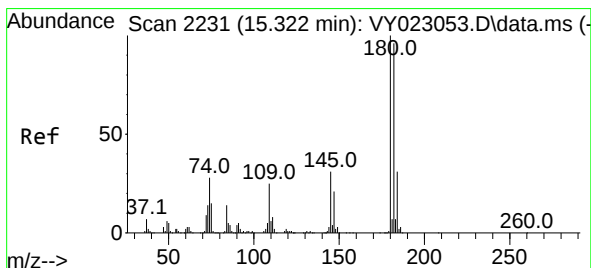
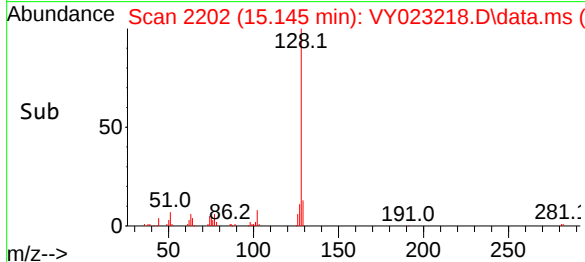
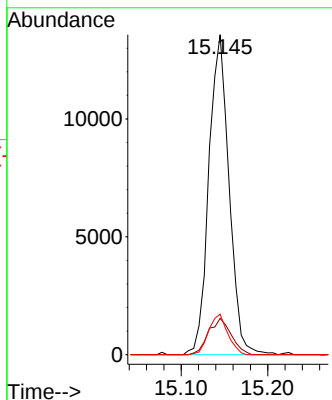
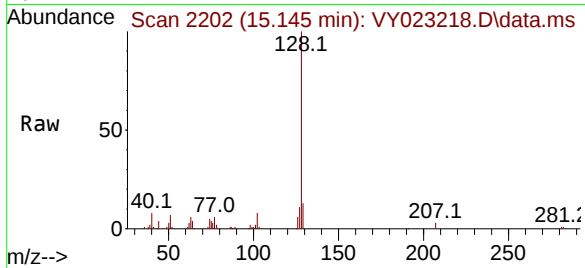




#95
Naphthalene
Concen: 2.777 ug/l
RT: 15.145 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Instrument :
MSVOA_Y
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2025

Tgt Ion:	128	Resp:	22013
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	12.0	9.0	13.4



#96
1,2,3-Trichlorobenzene
Concen: 3.147 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023218.D
Acq: 28 Aug 2025 11:59

Tgt Ion:	180	Resp:	12605
Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.9	143.7
145	29.3	15.9	47.7

