

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023554.D
 Acq On : 22 Oct 2025 16:22
 Operator : SY/MD
 Sample : Q3422-01
 Misc : 4.38g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S15-000008-20251021

Quant Time: Oct 24 02:36:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

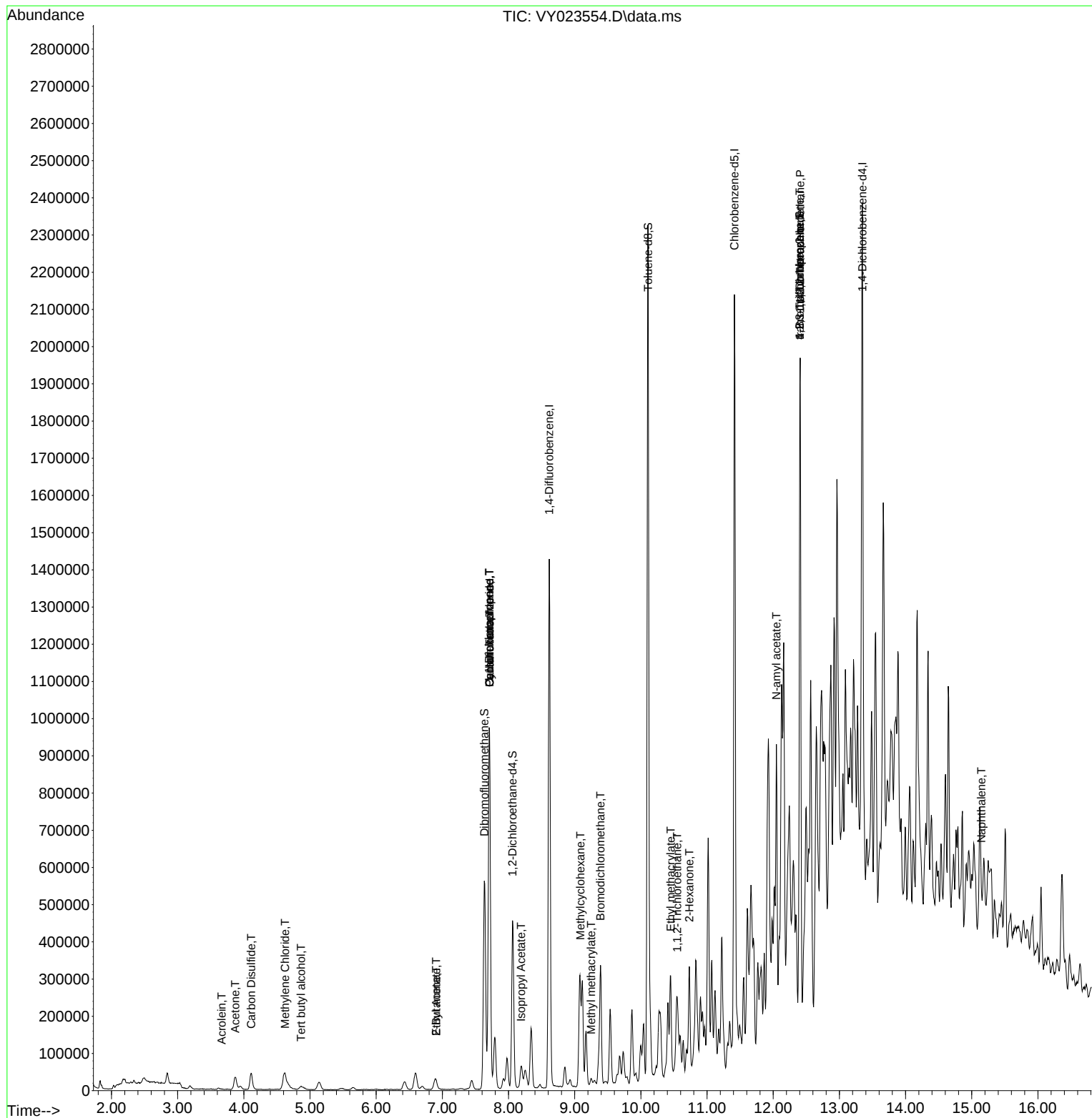
Internal Standards						
1) Pentafluorobenzene	7.713	168	828002	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1318131	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1124309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	514846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	347588	50.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.400%			
35) Dibromofluoromethane	7.634	113	403047	49.763	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.520%			
50) Toluene-d8	10.109	98	1501805	49.790	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.580%			
62) 4-Bromofluorobenzene	12.401	95	481218	48.324	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.640%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.866	59	16683	32.388	ug/l	97
13) Acrolein	3.665	56	1424	1.956	ug/l #	15
16) Acetone	3.872	43	55038	33.390	ug/l	97
17) Carbon Disulfide	4.110	76	89341	4.226	ug/l	99
20) Methylene Chloride	4.622	84	25987	2.916	ug/l	98
25) 2-Butanone	6.908	43	17633	8.762	ug/l	88
31) Cyclohexane	7.713	56	20275	1.760	ug/l #	21
36) 1,1-Dichloropropene	7.707	75	51744	4.826	ug/l #	49
37) Ethyl Acetate	6.908	43	17633	4.151	ug/l #	78
38) Carbon Tetrachloride	7.713	117	73865	5.681	ug/l #	16
39) Methylcyclohexane	9.085	83	103880	7.441	ug/l #	43
43) Isopropyl Acetate	8.189	43	25225	2.978	ug/l #	57
47) Bromodichloromethane	9.390	83	12844	1.075	ug/l #	46
48) Methyl methacrylate	9.250	41	4656	1.170	ug/l #	23
55) 1,1,2-Trichloroethane	10.548	97	77869	12.209	ug/l #	25
56) Ethyl methacrylate	10.451	69	24479	3.327	ug/l #	9
59) 2-Hexanone	10.731	43	94285	30.146	ug/l #	27
74) N-amyl acetate	12.048	43	167260	27.446	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.407	83	18473	3.329	ug/l	77
76) 1,2,3-Trichloropropane	12.401	75	220046	48.444	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	220046	118.793	ug/l #	17
95) Naphthalene	15.145	128	44726	2.926	ug/l #	86

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

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Response via : Initial Calibration

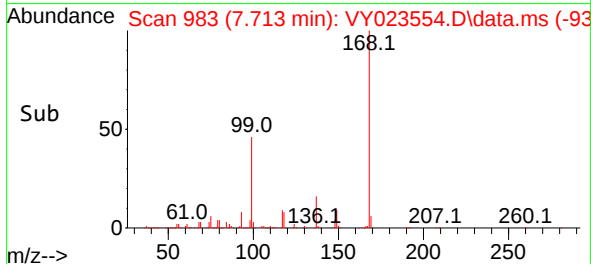
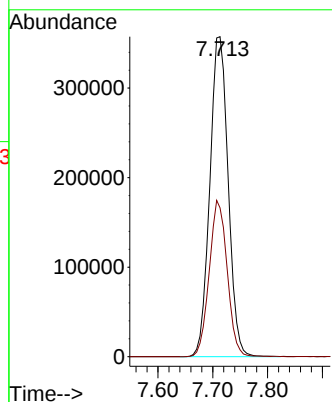
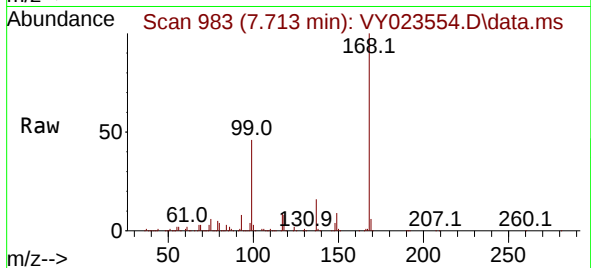




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

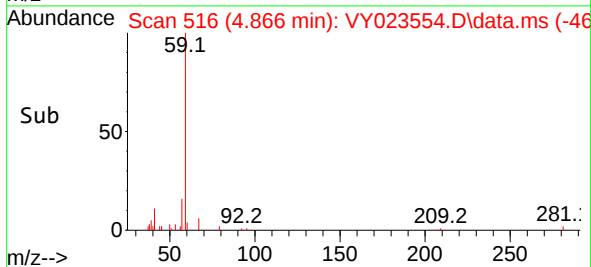
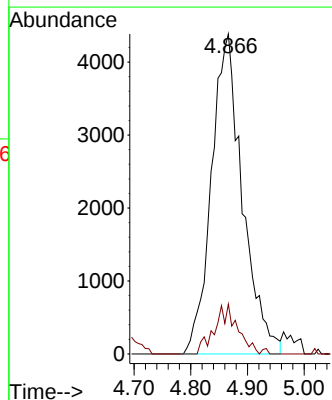
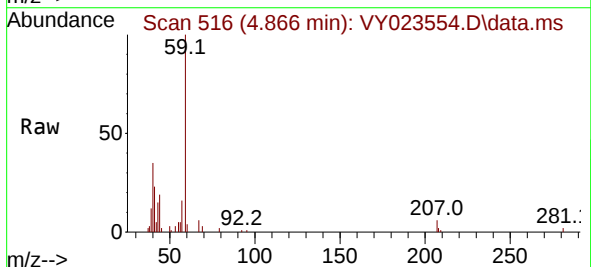
Instrument :
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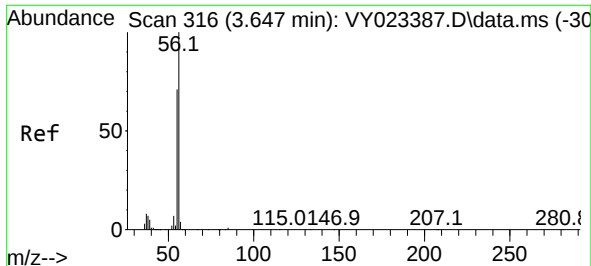
Tgt Ion:168 Resp: 828002
Ion Ratio Lower Upper
168 100
99 46.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 32.388 ug/l
RT: 4.866 min Scan# 516
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 59 Resp: 16683
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5

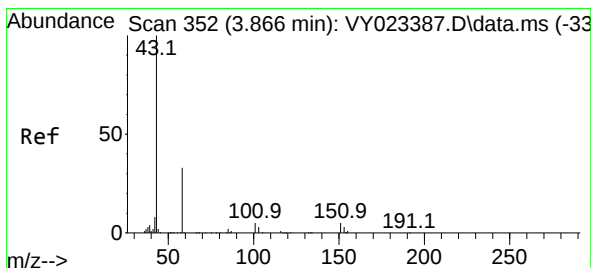
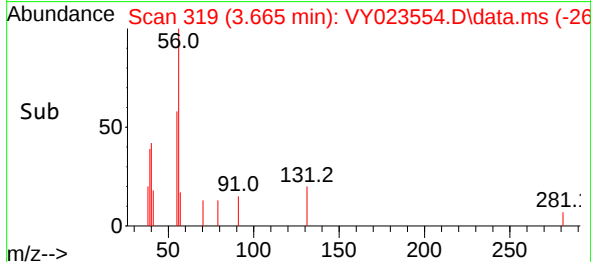
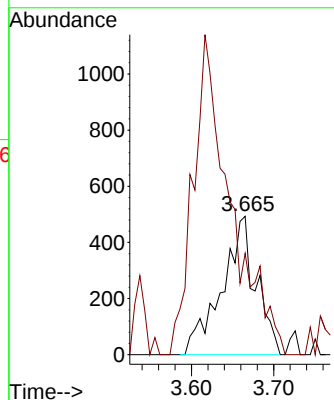
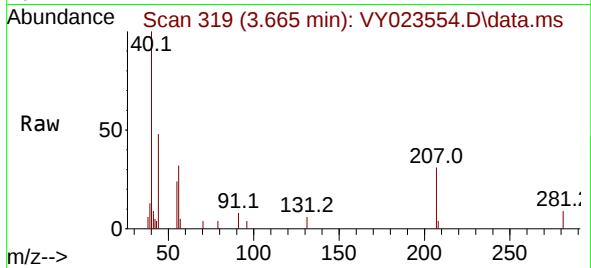




#13
Acrolein
Concen: 1.956 ug/l
RT: 3.665 min Scan# 316
Delta R.T. 0.018 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

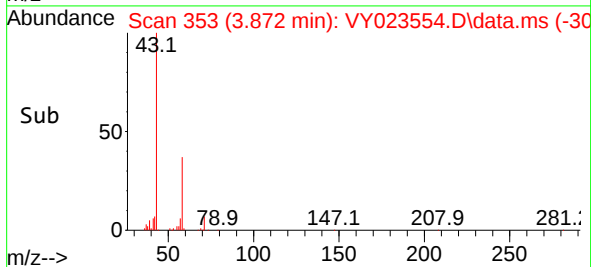
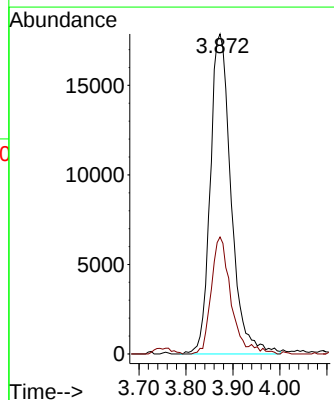
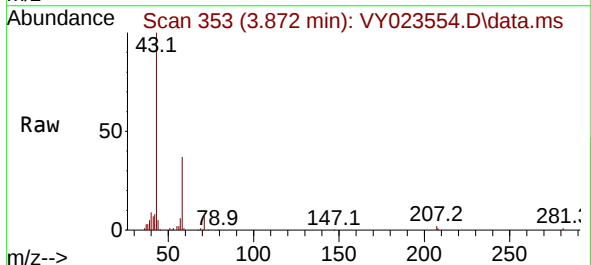
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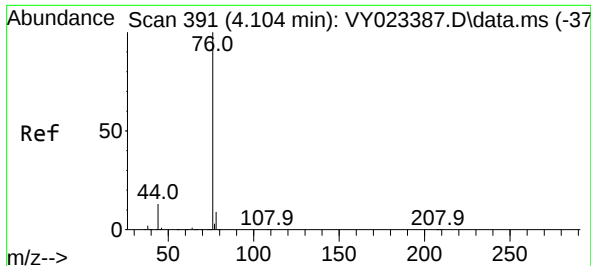
Tgt Ion: 56 Resp: 1424
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#



#16
Acetone
Concen: 33.390 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 43 Resp: 55038
Ion Ratio Lower Upper
43 100
58 36.6 27.7 41.5

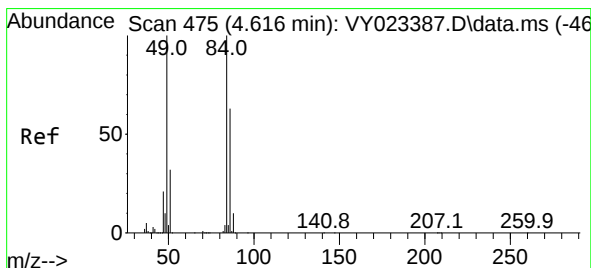
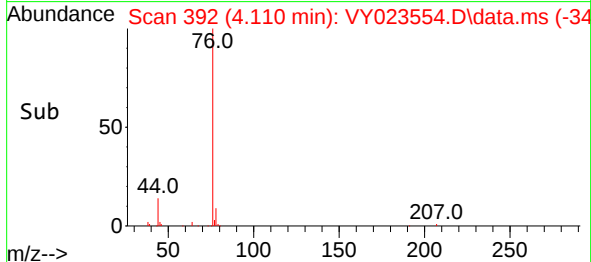
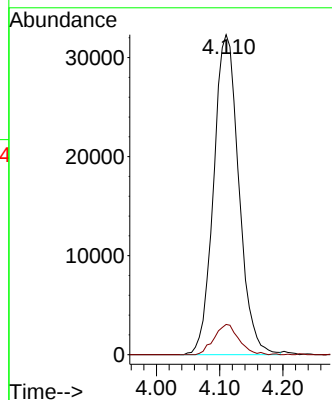
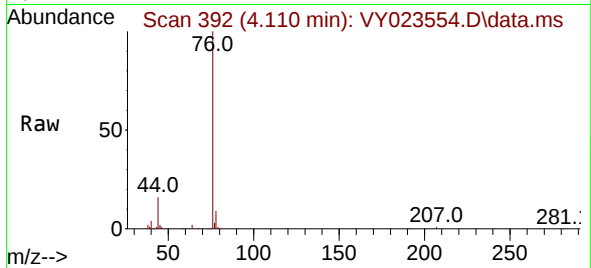




#17
Carbon Disulfide
Concen: 4.226 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

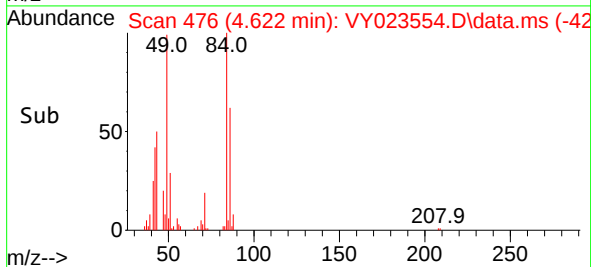
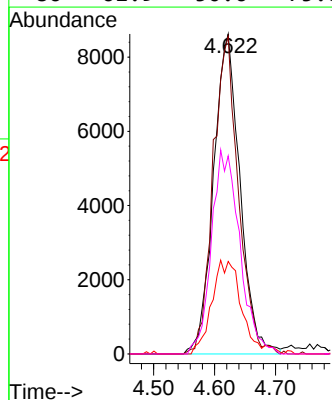
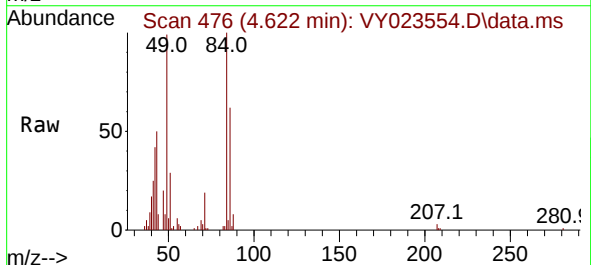
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

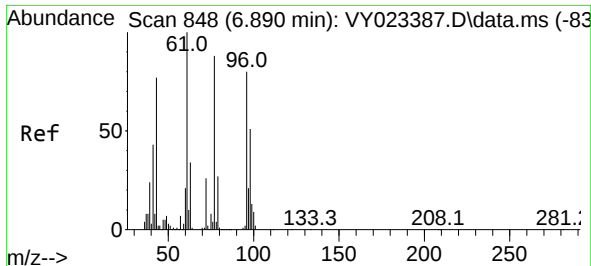
Tgt Ion: 76 Resp: 89341
Ion Ratio Lower Upper
76 100
78 9.5 7.3 10.9



#20
Methylene Chloride
Concen: 2.916 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 84 Resp: 25987
Ion Ratio Lower Upper
84 100
49 99.2 80.2 120.4
51 28.9 25.9 38.9
86 61.9 50.6 75.8

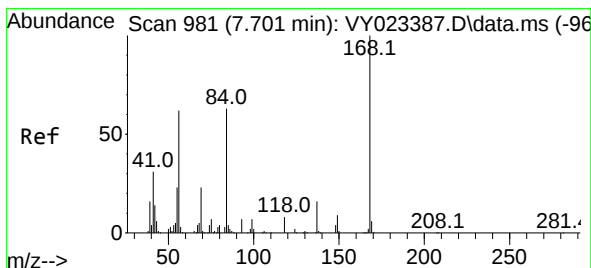
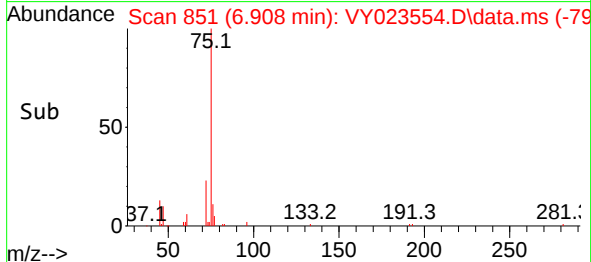
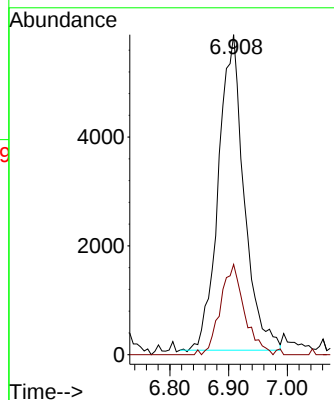
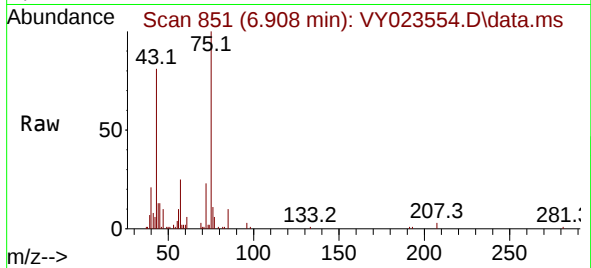




#25
2-Butanone
Concen: 8.762 ug/l
RT: 6.908 min Scan# 81
Delta R.T. 0.018 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

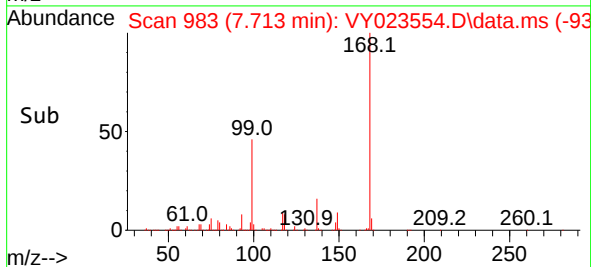
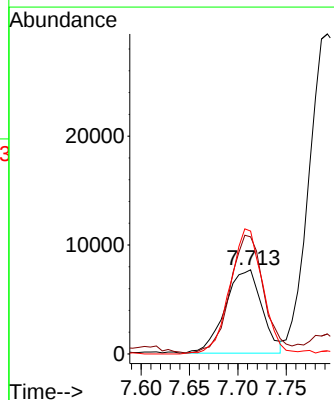
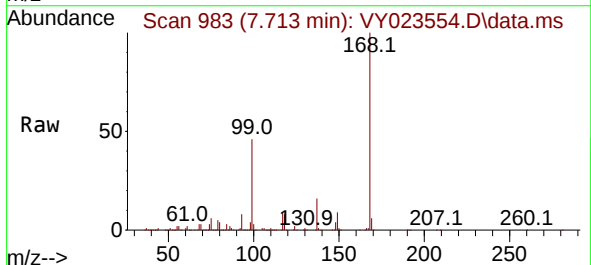
Instrument :
MSVOA_Y
ClientSampleId :
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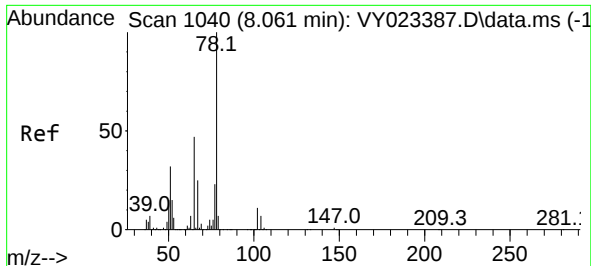
Tgt Ion: 43 Resp: 17633
Ion Ratio Lower Upper
43 100
72 27.4 27.4 41.2



#31
Cyclohexane
Concen: 1.760 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 56 Resp: 20275
Ion Ratio Lower Upper
56 100
69 138.4 30.0 45.0#
84 147.6 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 50.201 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. -0.000 min

Lab File: VY023554.D

Acq: 22 Oct 2025 16:22

Instrument :

MSVOA_Y

ClientSampleId :

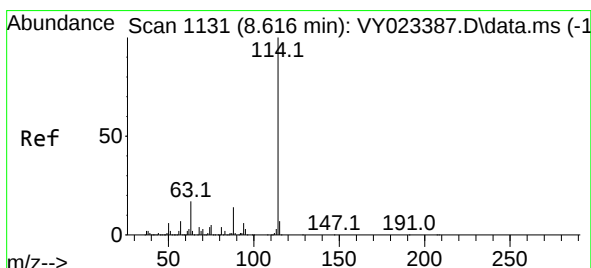
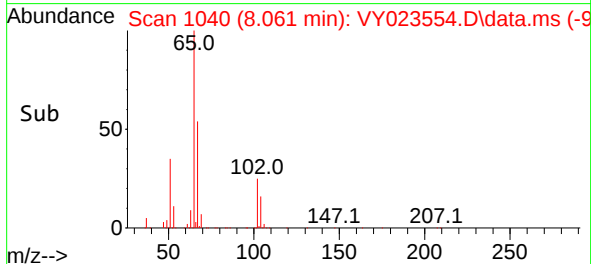
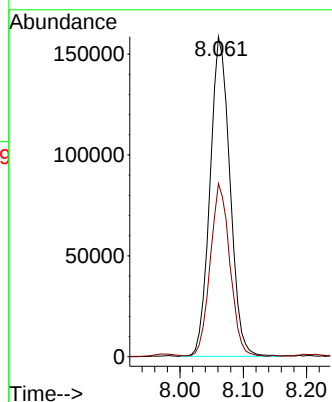
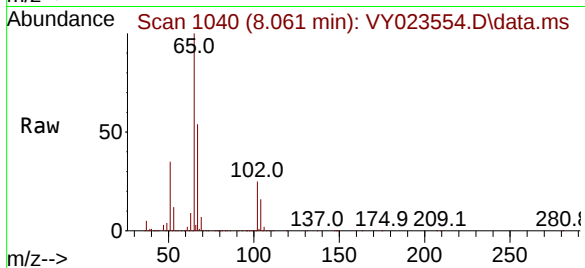
PR132-S15-000008-20251021

Tgt Ion: 65 Resp: 347588

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023554.D

Acq: 22 Oct 2025 16:22

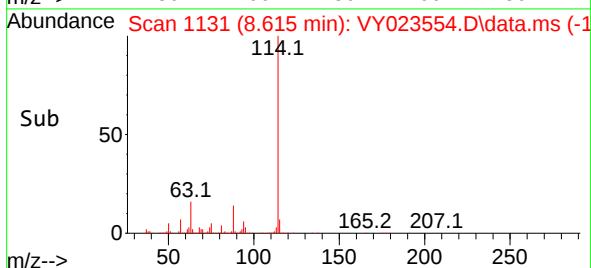
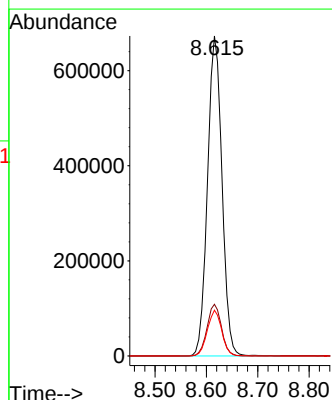
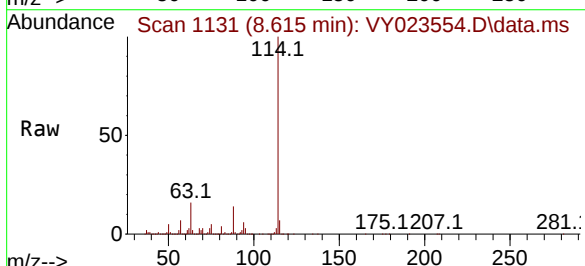
Tgt Ion:114 Resp: 1318131

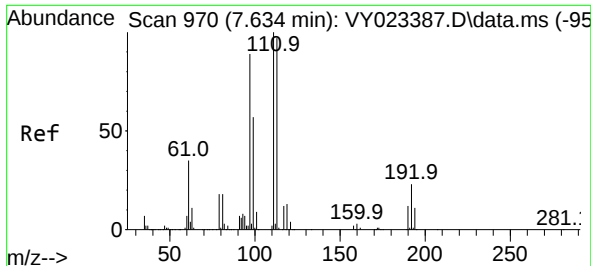
Ion Ratio Lower Upper

114 100

63 16.1 0.0 34.2

88 14.3 0.0 28.4

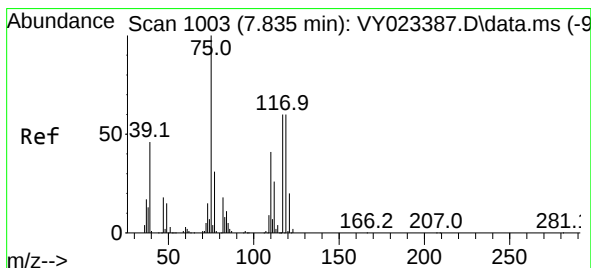
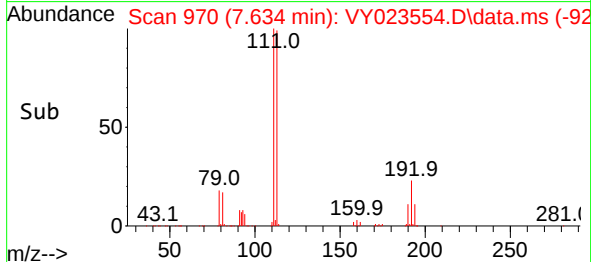
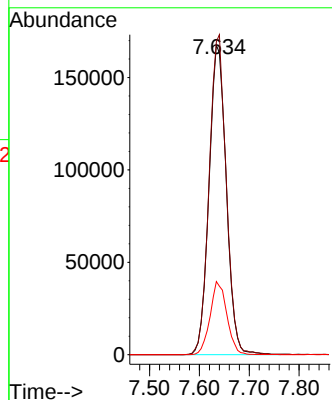
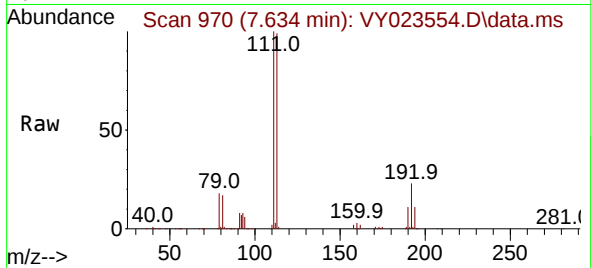




#35
Dibromofluoromethane
Concen: 49.763 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

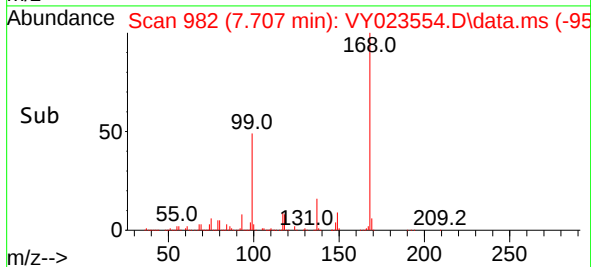
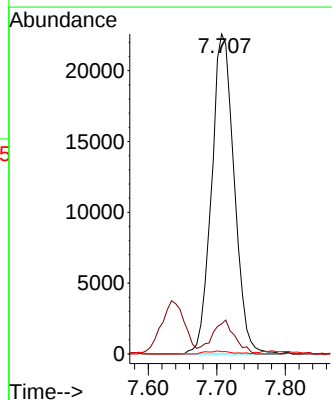
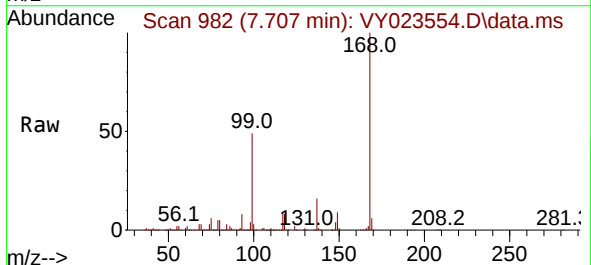
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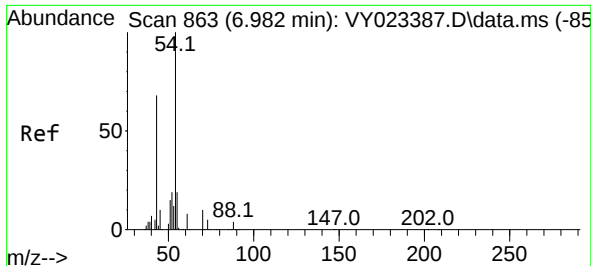
Tgt Ion:113 Resp: 403047
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.6
192 23.0 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.826 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 75 Resp: 51744
Ion Ratio Lower Upper
75 100
110 10.6 19.9 59.7#
77 1.0 25.0 37.6#

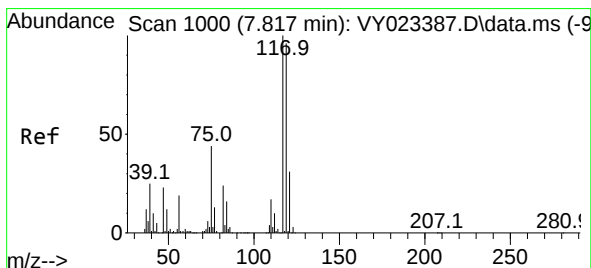
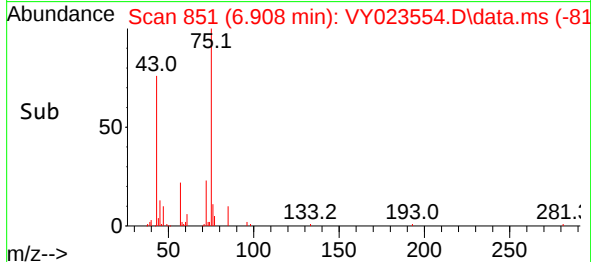
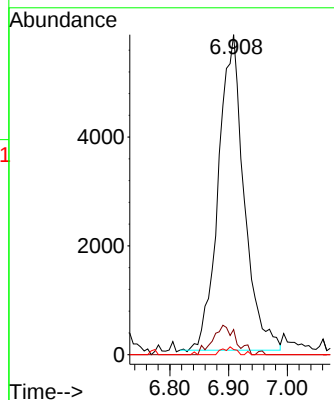
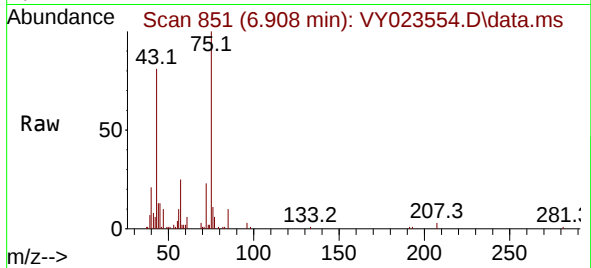




#37
Ethyl Acetate
Concen: 4.151 ug/l
RT: 6.908 min Scan# 81
Delta R.T. -0.073 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

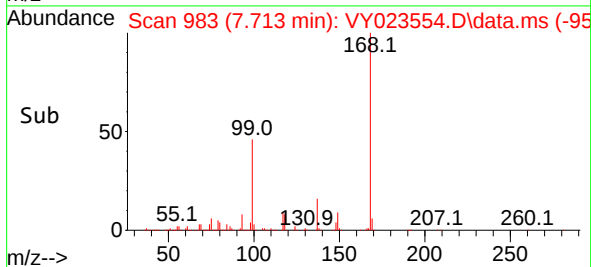
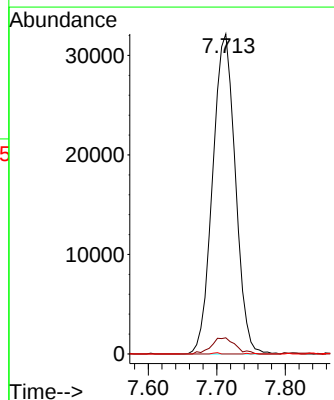
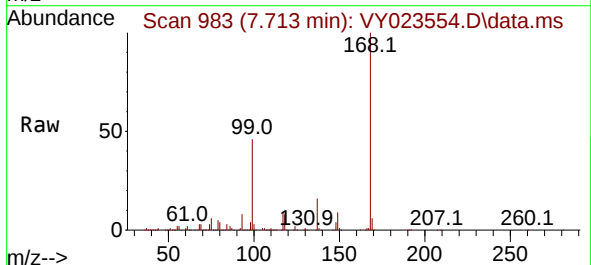
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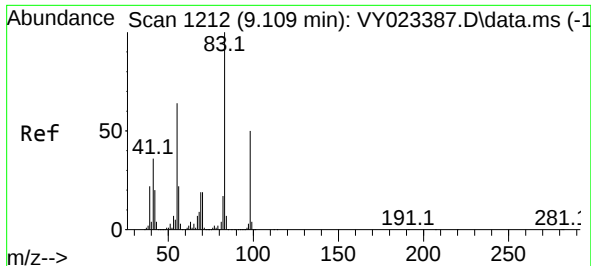
Tgt Ion: 43 Resp: 17633
Ion Ratio Lower Upper
43 100
61 8.3 11.8 17.8#
70 1.2 10.5 15.7#



#38
Carbon Tetrachloride
Concen: 5.681 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.104 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 117 Resp: 73865
Ion Ratio Lower Upper
117 100
119 5.1 76.8 115.2#
121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 7.441 ug/l

RT: 9.085 min Scan# 11

Delta R.T. -0.025 min

Lab File: VY023554.D

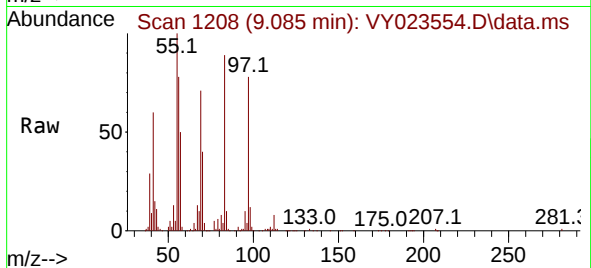
Acq: 22 Oct 2025 16:22

Instrument :

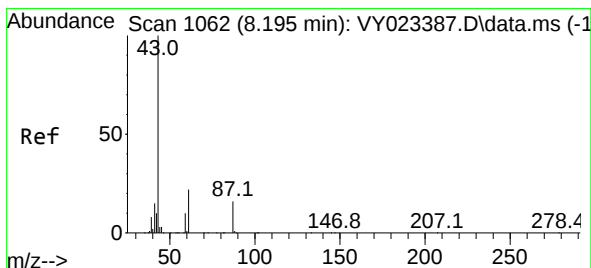
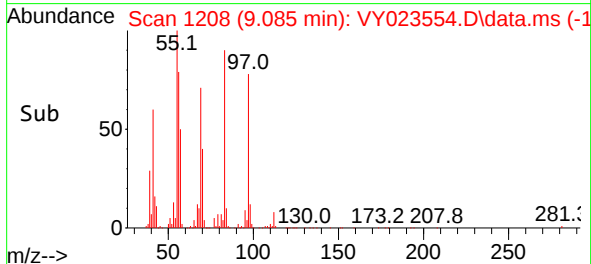
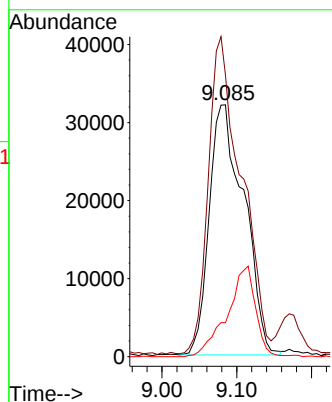
MSVOA_Y

ClientSampleId :

PR132-S15-000008-20251021



Tgt Ion:	83	Resp:	103880
Ion	Ratio	Lower	Upper
83	100		
55	111.3	51.4	77.2#
98	13.6	40.4	60.6#



#43

Isopropyl Acetate

Concen: 2.978 ug/l

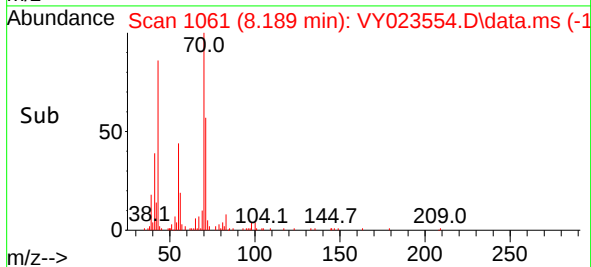
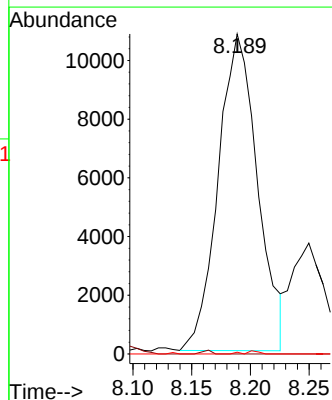
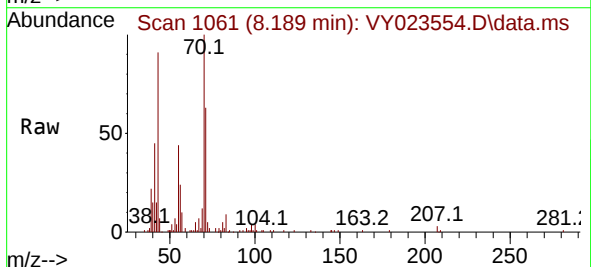
RT: 8.189 min Scan# 1061

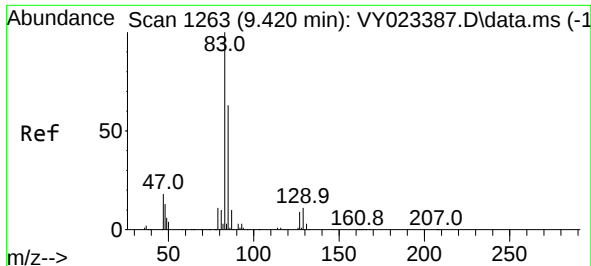
Delta R.T. -0.006 min

Lab File: VY023554.D

Acq: 22 Oct 2025 16:22

Tgt Ion:	43	Resp:	25225
Ion	Ratio	Lower	Upper
43	100		
61	0.0	18.1	27.1#
87	0.3	13.5	20.3#

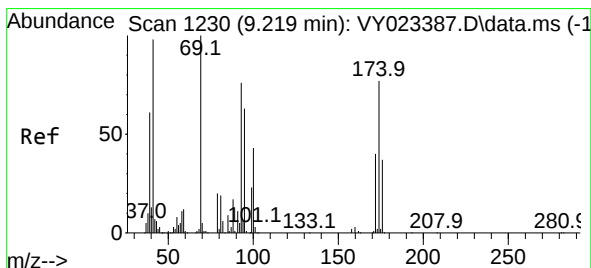
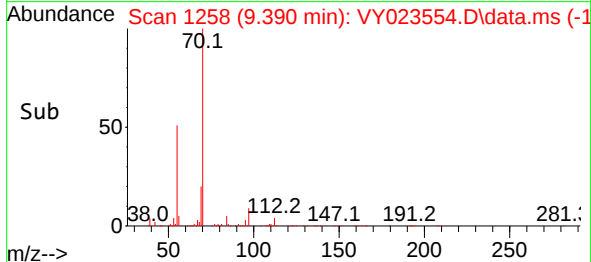
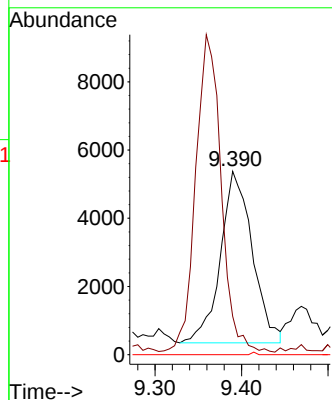
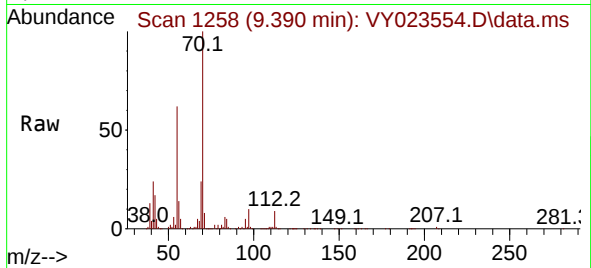




#47
Bromodichloromethane
Concen: 1.075 ug/l
RT: 9.390 min Scan# 1263
Delta R.T. -0.031 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

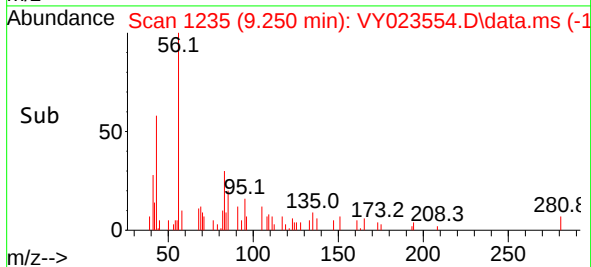
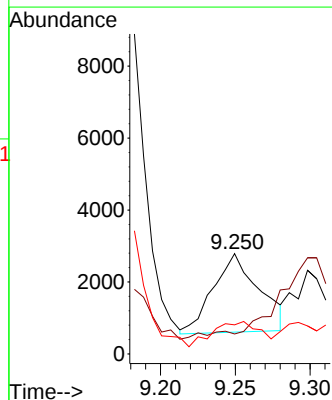
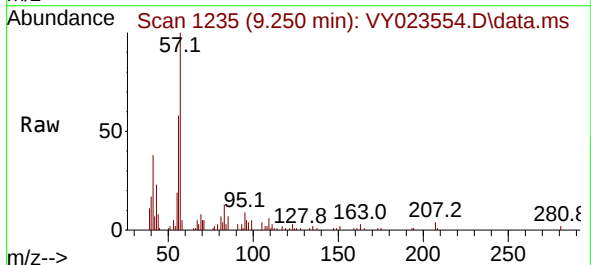
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

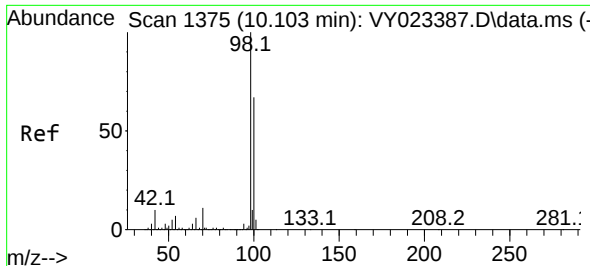
Tgt Ion: 83 Resp: 12844
Ion Ratio Lower Upper
83 100
85 18.4 50.8 76.2#
127 0.0 7.4 11.2#



#48
Methyl methacrylate
Concen: 1.170 ug/l
RT: 9.250 min Scan# 1235
Delta R.T. 0.030 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 41 Resp: 4656
Ion Ratio Lower Upper
41 100
69 0.0 81.0 121.4#
39 32.6 48.2 72.4#

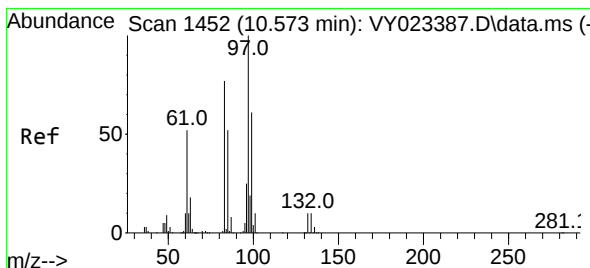
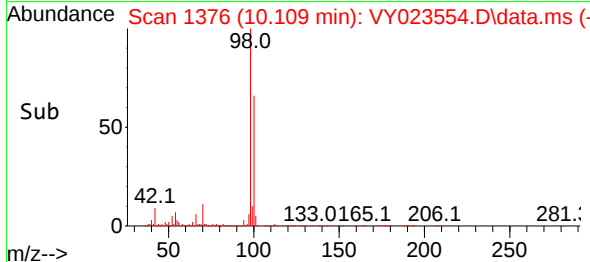
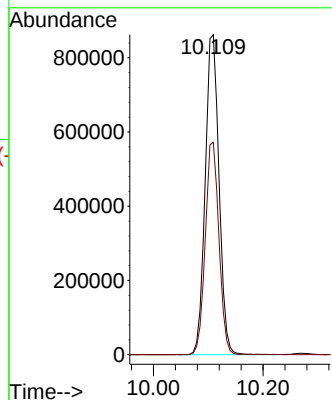
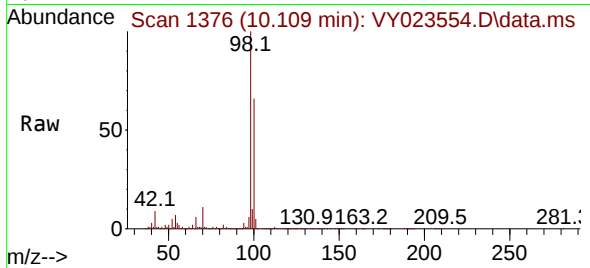




#50
Toluene-d8
Concen: 49.790 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

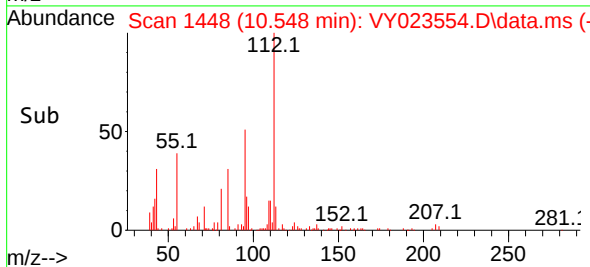
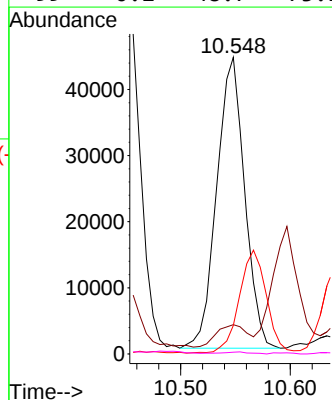
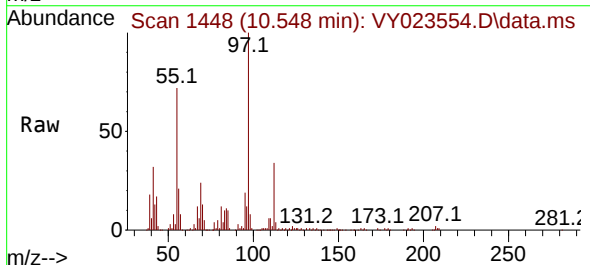
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

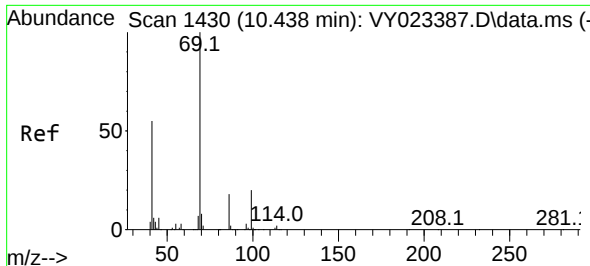
Tgt Ion: 98 Resp: 1501805
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 12.209 ug/l
RT: 10.548 min Scan# 1448
Delta R.T. -0.025 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 97 Resp: 77869
Ion Ratio Lower Upper
97 100
83 7.1 61.8 92.6#
85 9.2 41.3 61.9#
99 0.2 48.7 73.1#

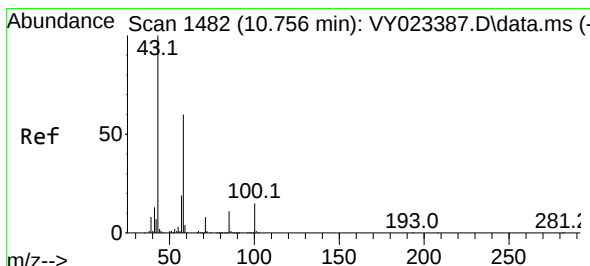
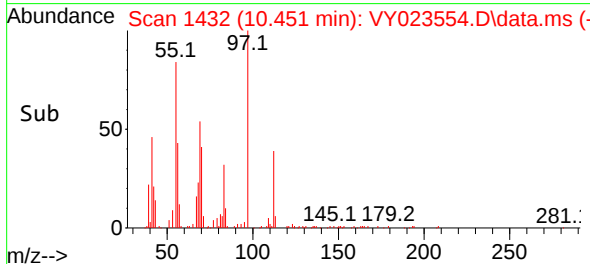
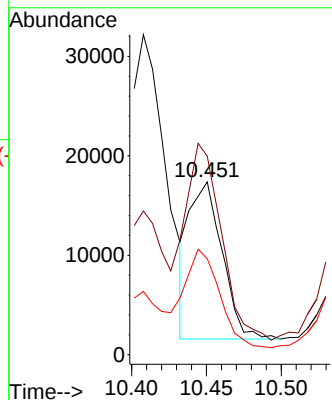
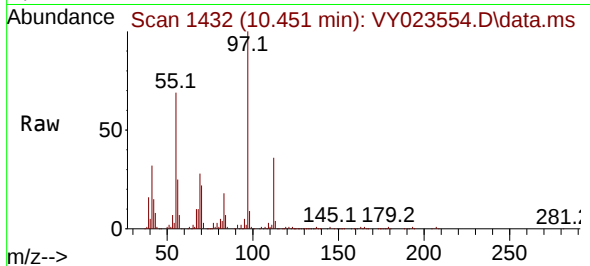




#56
Ethyl methacrylate
Concen: 3.327 ug/l
RT: 10.451 min Scan# 1432
Delta R.T. 0.012 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

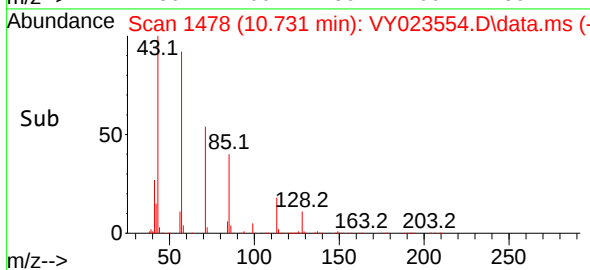
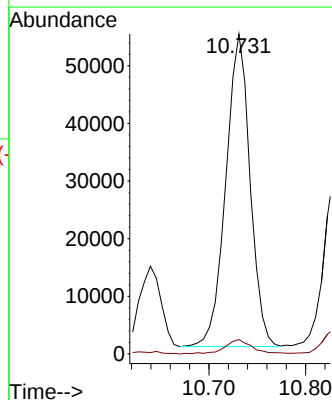
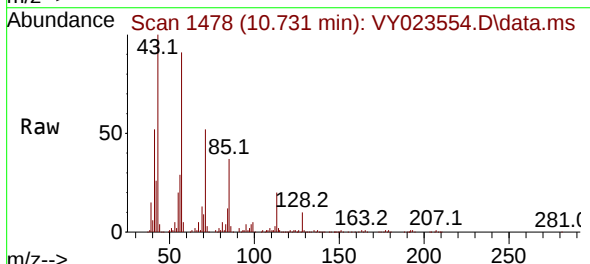
Instrument : MSVOA_Y
ClientSampleId : PR132-S15-000008-20251021

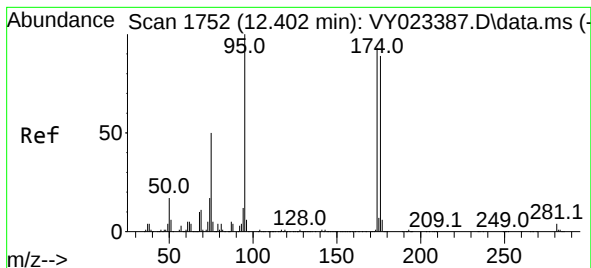
Tgt Ion: 69 Resp: 24479
Ion Ratio Lower Upper
69 100
41 138.0 44.6 67.0#
39 65.7 27.0 40.4#



#59
2-Hexanone
Concen: 30.146 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.025 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 43 Resp: 94285
Ion Ratio Lower Upper
43 100
58 5.3 30.5 91.5#

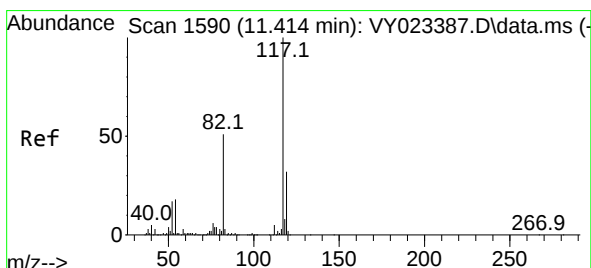
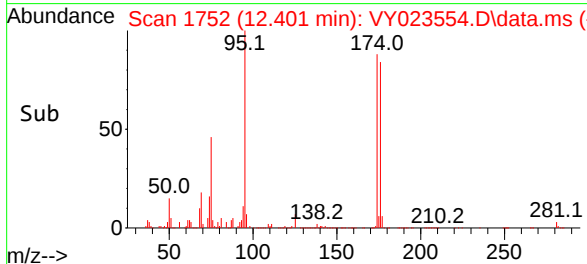
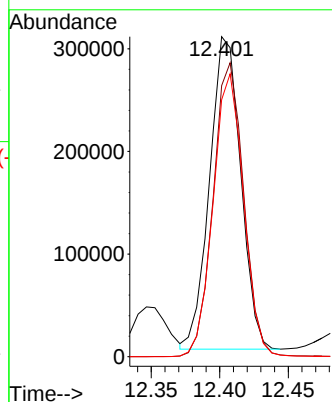
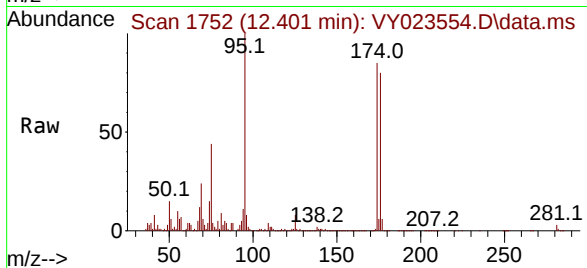




#62
4-Bromofluorobenzene
Concen: 48.324 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

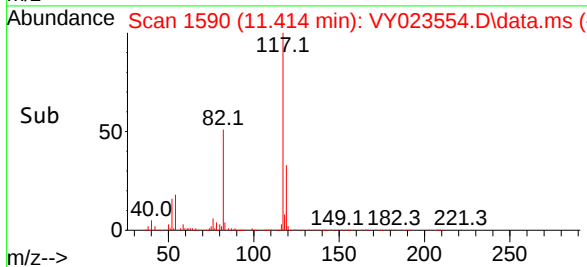
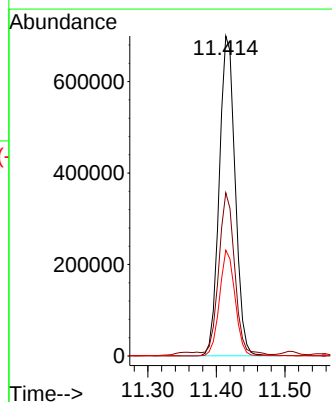
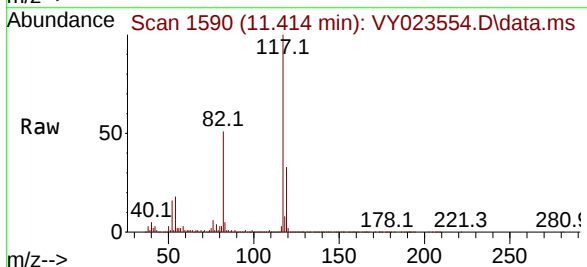
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

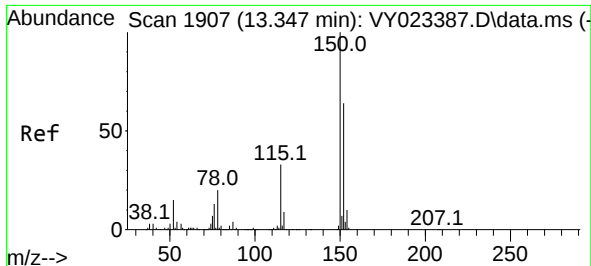
Tgt Ion: 95 Resp: 481218
Ion Ratio Lower Upper
95 100
174 92.4 0.0 192.8
176 88.9 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 117 Resp: 1124309
Ion Ratio Lower Upper
117 100
82 50.3 41.0 61.4
119 33.0 25.6 38.4

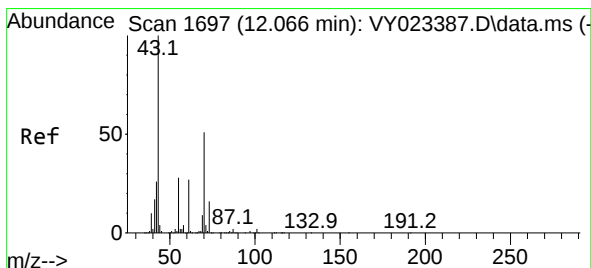
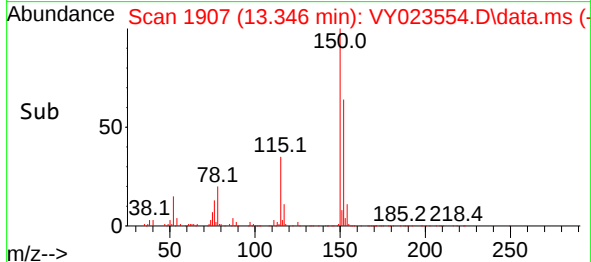
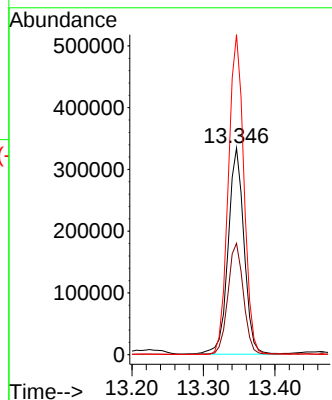
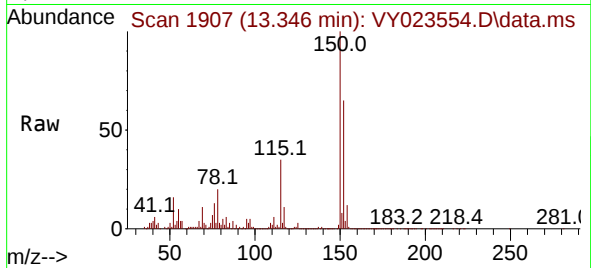




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

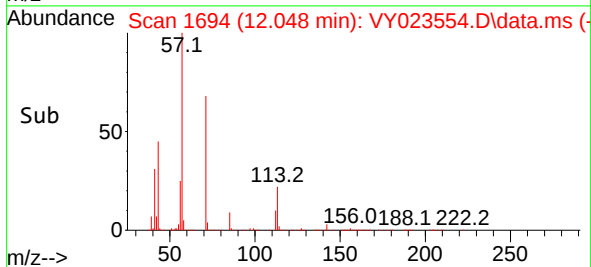
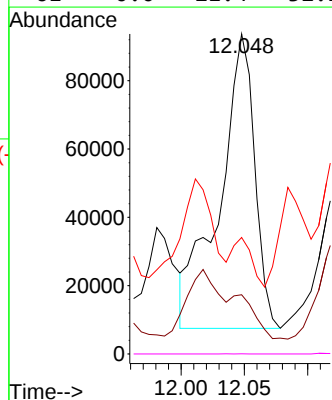
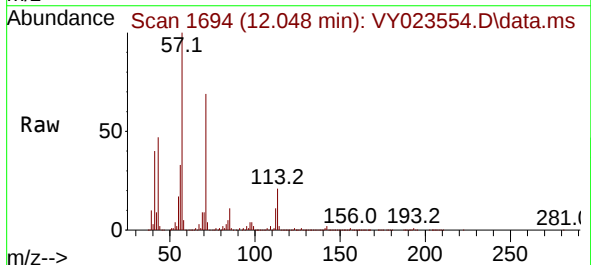
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

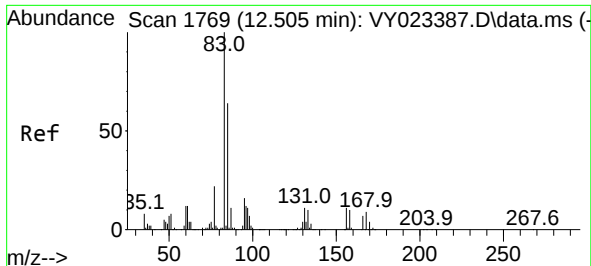
Tgt Ion:152 Resp: 514846
Ion Ratio Lower Upper
152 100
115 52.9 27.1 81.2
150 151.7 0.0 347.4



#74
N-ethyl acetate
Concen: 27.446 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.018 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion: 43 Resp: 167260
Ion Ratio Lower Upper
43 100
70 0.0 41.1 61.7#
55 8.9 23.0 34.6#
61 0.0 21.4 32.2#

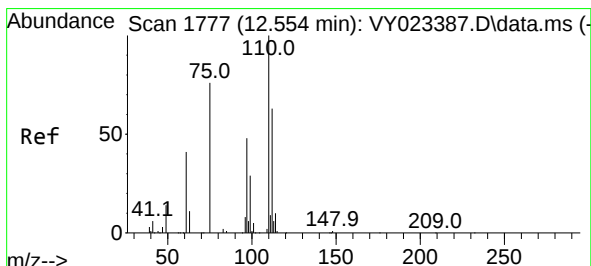
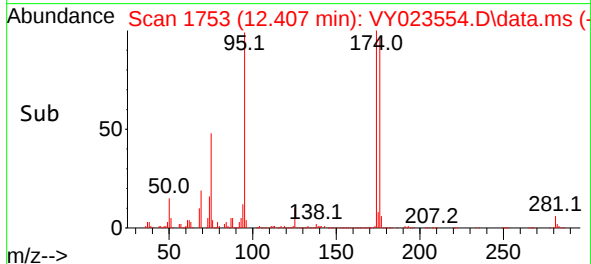
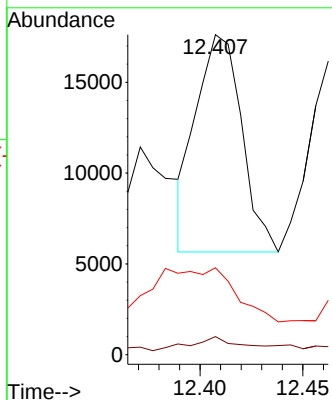
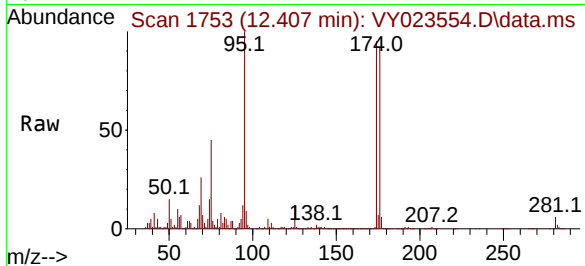




#75
 1,1,2,2-Tetrachloroethane
 Concen: 3.329 ug/l
 RT: 12.407 min Scan# 1752
 Delta R.T. -0.098 min
 Lab File: VY023554.D
 Acq: 22 Oct 2025 16:22

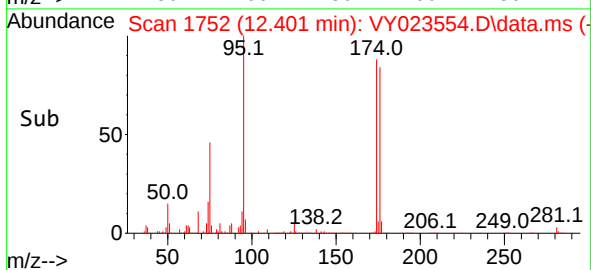
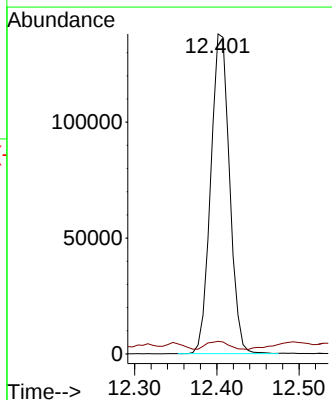
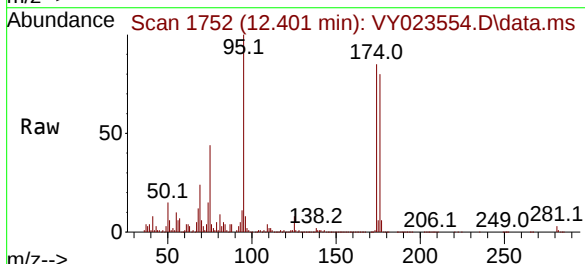
Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S15-000008-20251021

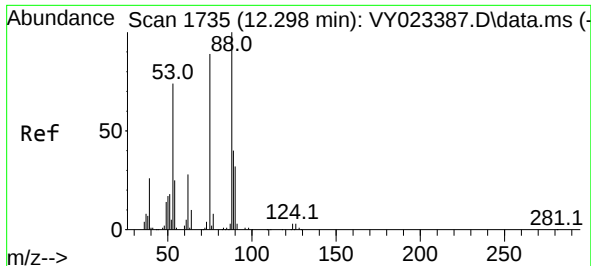
Tgt Ion: 83 Resp: 18473
 Ion Ratio Lower Upper
 83 100
 131 8.1 5.9 17.6
 85 43.4 31.8 95.3



#76
 1,2,3-Trichloropropane
 Concen: 48.444 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. -0.153 min
 Lab File: VY023554.D
 Acq: 22 Oct 2025 16:22

Tgt Ion: 75 Resp: 220046
 Ion Ratio Lower Upper
 75 100
 77 2.9 0.0 0.0#

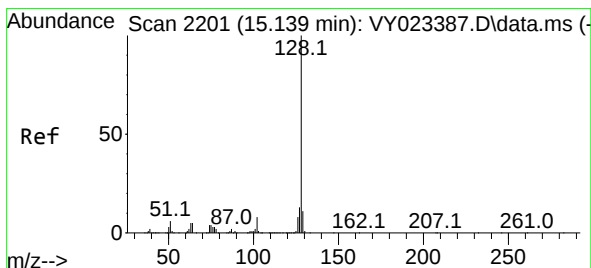
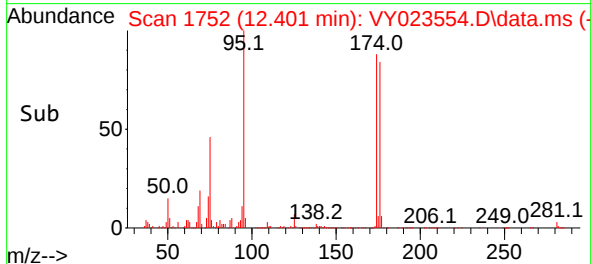
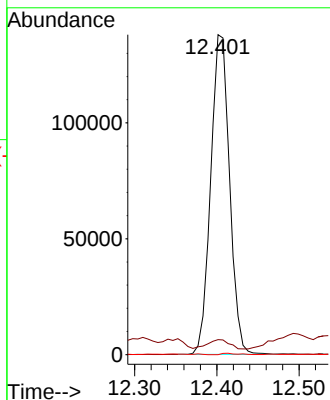
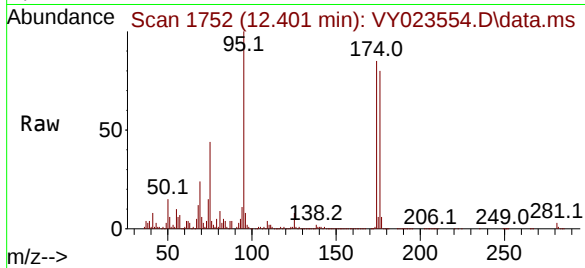




#81
trans-1,4-Dichloro-2-butene
Concen: 118.793 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S15-000008-20251021

Tgt Ion: 75 Resp: 220046
Ion Ratio Lower Upper
75 100
53 3.3 68.6 102.8#
89 0.4 39.0 58.4#



#95
Naphthalene
Concen: 2.926 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023554.D
Acq: 22 Oct 2025 16:22

Tgt Ion:128 Resp: 44726
Ion Ratio Lower Upper
128 100
127 21.8 10.4 15.6#
129 9.4 8.9 13.3

