

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
 Data File : VY023862.D
 Acq On : 02 Dec 2025 16:20
 Operator : SY/MD
 Sample : Q3742-09
 Misc : 5.71g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 03 01:05:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 27 01:14:36 2025
 Response via : Initial Calibration

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

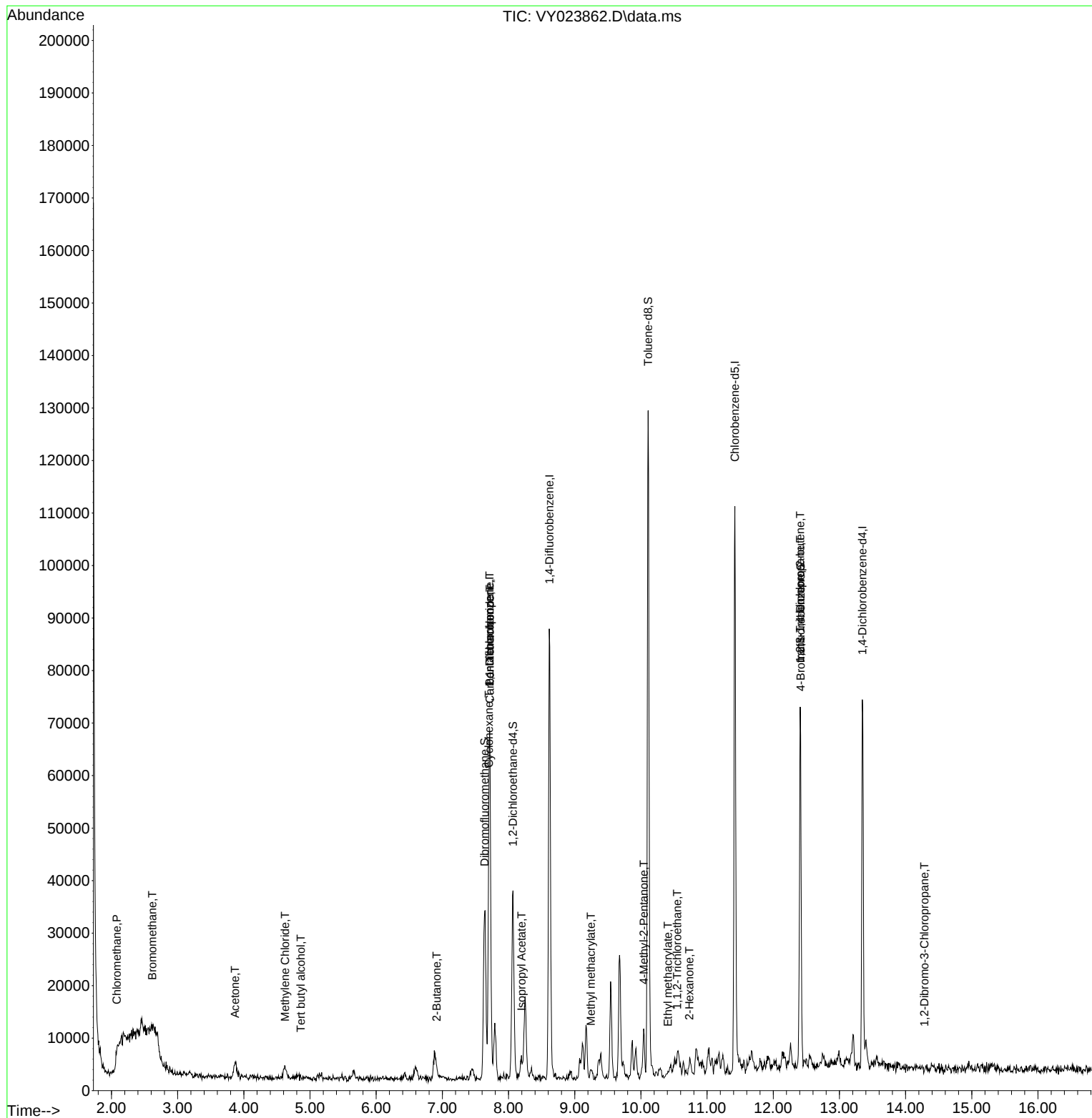
Internal Standards						
1) Pentafluorobenzene	7.713	168	54972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	72938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	58949	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	19096	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	27420	51.220	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.440%	
35) Dibromofluoromethane	7.640	113	25419	58.830	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.660%	
50) Toluene-d8	10.109	98	85466	49.799	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.600%	
62) 4-Bromofluorobenzene	12.414	95	20070	35.542	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 71.080%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.080	50	648	1.022	ug/l #	66
5) Bromomethane	2.617	94	1089	2.252	ug/l #	59
11) Tert butyl alcohol	4.860	59	129	2.934	ug/l #	73
16) Acetone	3.866	43	5165	33.487	ug/l	94
20) Methylene Chloride	4.622	84	983	1.507	ug/l #	85
25) 2-Butanone	6.915	43	1495	7.942	ug/l #	75
31) Cyclohexane	7.701	56	1159	1.126	ug/l #	29
36) 1,1-Dichloropropene	7.713	75	4621	6.975	ug/l #	49
38) Carbon Tetrachloride	7.719	117	5495	7.557	ug/l #	16
43) Isopropyl Acetate	8.195	43	2185	3.752	ug/l #	51
48) Methyl methacrylate	9.243	41	710	2.590	ug/l #	32
51) 4-Methyl-2-Pentanone	10.042	43	1088	3.549	ug/l #	65
55) 1,1,2-Trichloroethane	10.548	97	1067	3.054	ug/l #	27
56) Ethyl methacrylate	10.408	69	960	2.093	ug/l #	57
59) 2-Hexanone	10.731	43	1536	6.776	ug/l #	23
76) 1,2,3-Trichloropropane	12.407	75	10345	62.296	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	10345	131.675	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.285	75	63	1.687	ug/l #	1

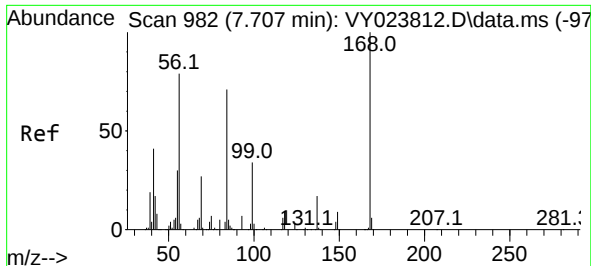
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 03 01:05:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 27 01:14:36 2025
Response via : Initial Calibration

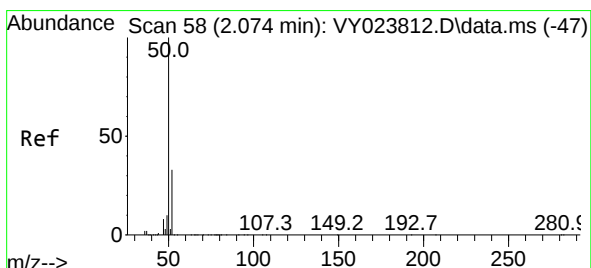
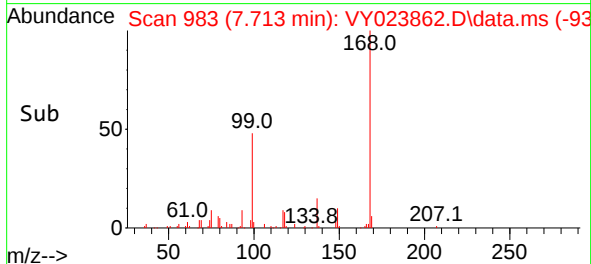
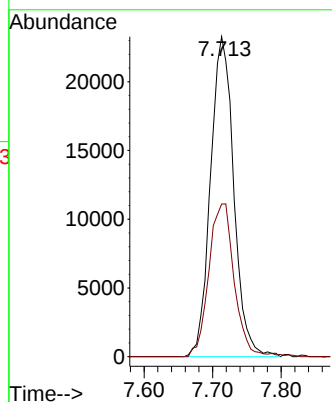
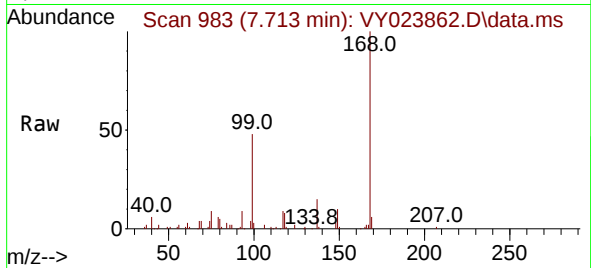




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

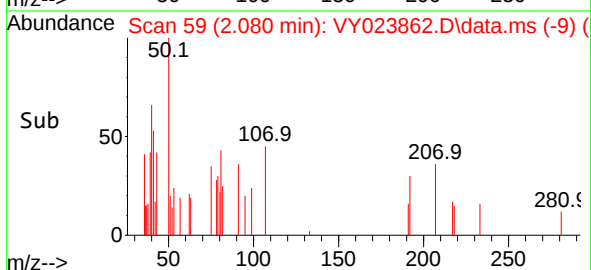
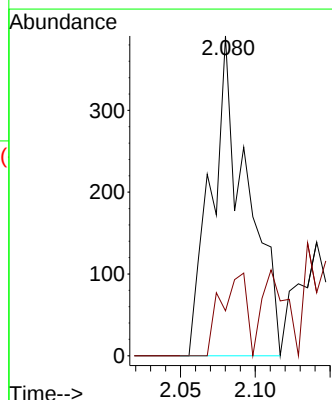
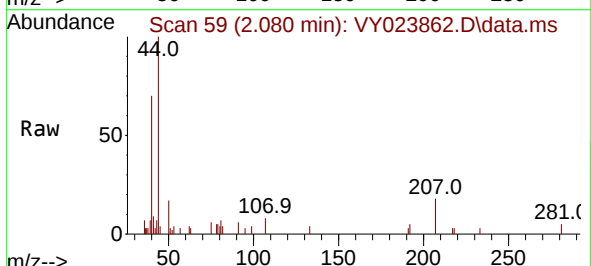
Instrument :
MSVOA_Y
ClientSampleId :

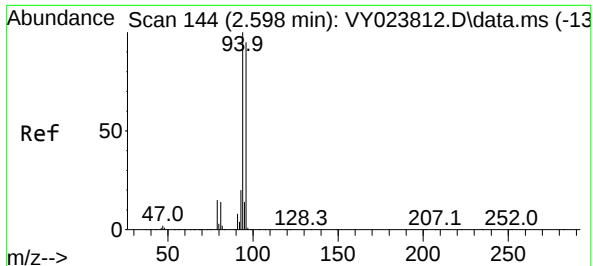
Tgt Ion:168 Resp: 54972
Ion Ratio Lower Upper
168 100
99 47.7 44.0 66.0



#3
Chloromethane
Concen: 1.022 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 50 Resp: 648
Ion Ratio Lower Upper
50 100
52 14.1 26.6 39.8#

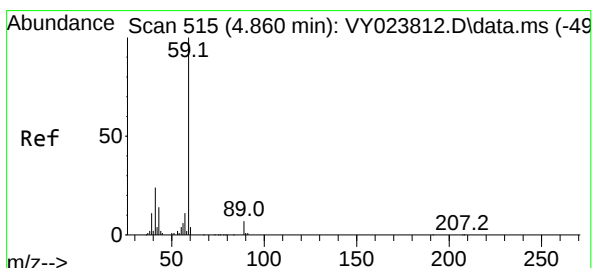
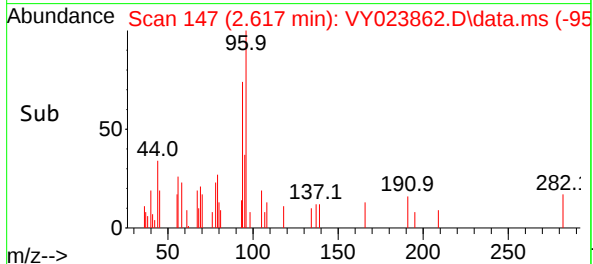
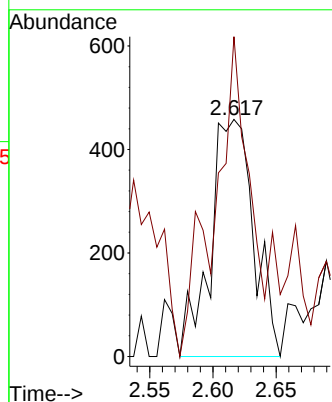
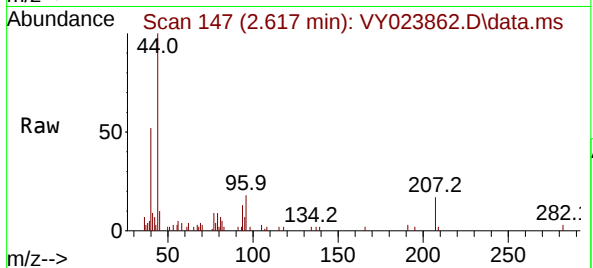




#5
Bromomethane
Concen: 2.252 ug/l
RT: 2.617 min Scan# 144
Delta R.T. 0.018 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

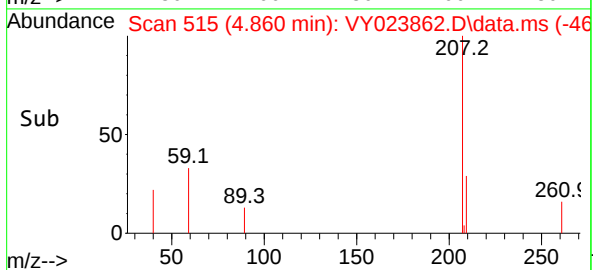
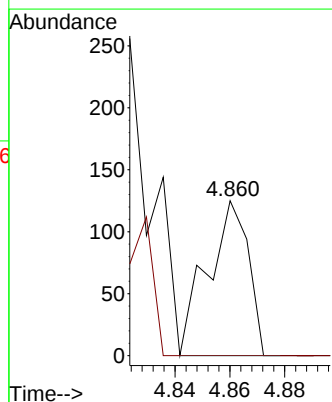
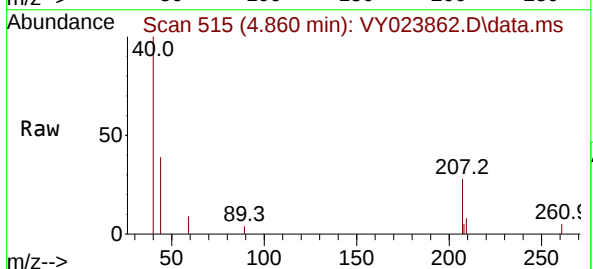
Instrument :
MSVOA_Y
ClientSampleId :

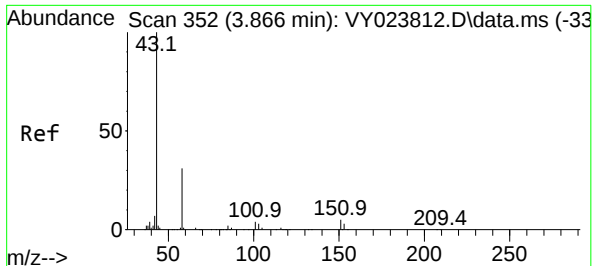
Tgt Ion: 94 Resp: 1089
Ion Ratio Lower Upper
94 100
96 134.9 76.1 114.1#



#11
Tert butyl alcohol
Concen: 2.934 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.000 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 59 Resp: 129
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

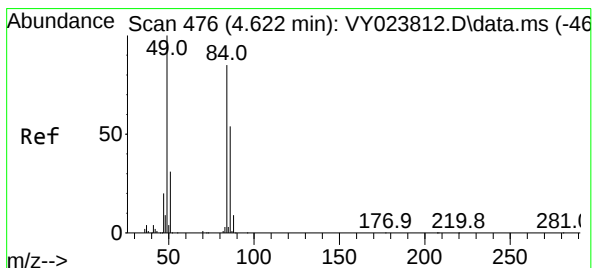
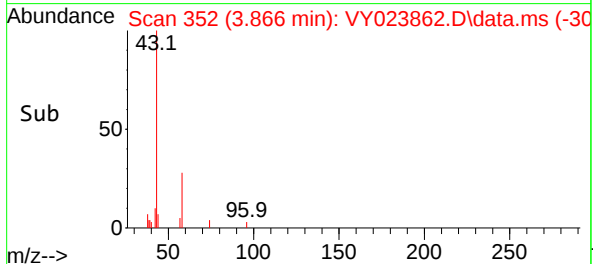
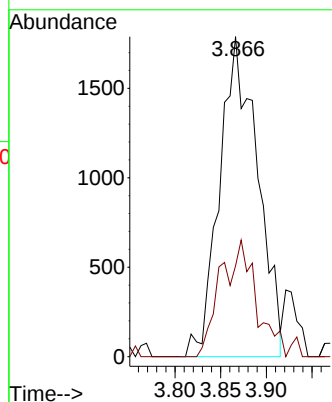
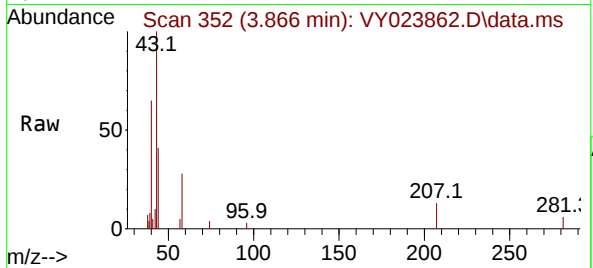




#16
Acetone
Concen: 33.487 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

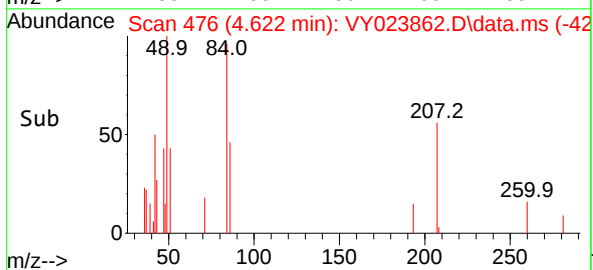
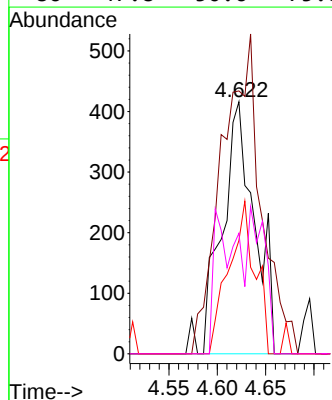
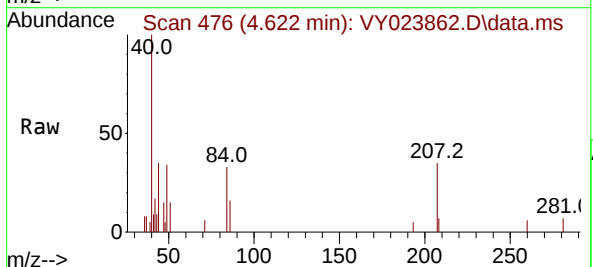
Instrument :
MSVOA_Y
ClientSampleId :

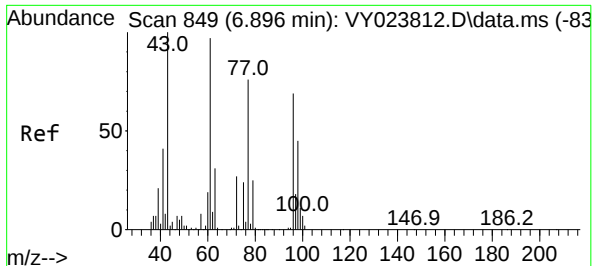
Tgt Ion: 43 Resp: 5165
Ion Ratio Lower Upper
43 100
58 28.4 25.4 38.2



#20
Methylene Chloride
Concen: 1.507 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.000 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 84 Resp: 983
Ion Ratio Lower Upper
84 100
49 104.3 94.0 141.0
51 45.0 29.2 43.8#
86 47.8 50.6 75.8#





#25

2-Butanone

Concen: 7.942 ug/l

RT: 6.915 min Scan# 849

Delta R.T. 0.018 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Instrument :

MSVOA_Y

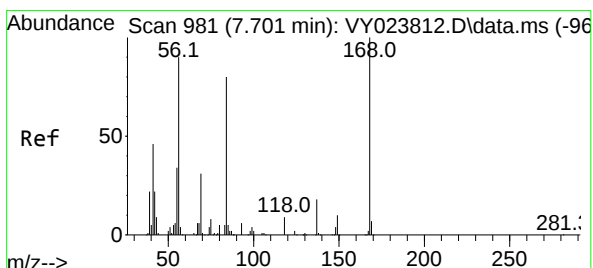
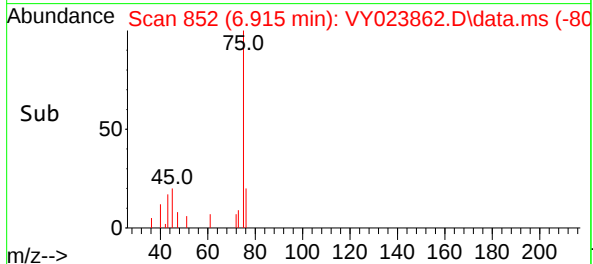
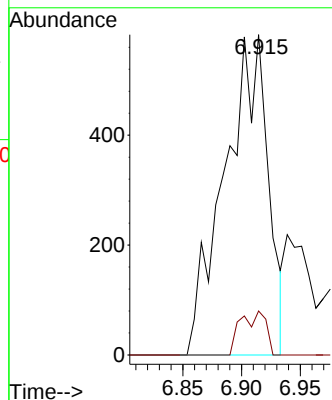
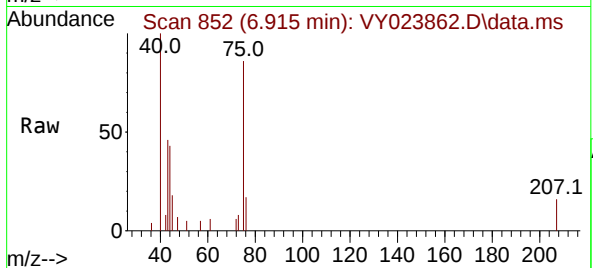
ClientSampleId :

Tgt Ion: 43 Resp: 1495

Ion Ratio Lower Upper

43 100

72 13.7 21.3 31.9#



#31

Cyclohexane

Concen: 1.126 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.000 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

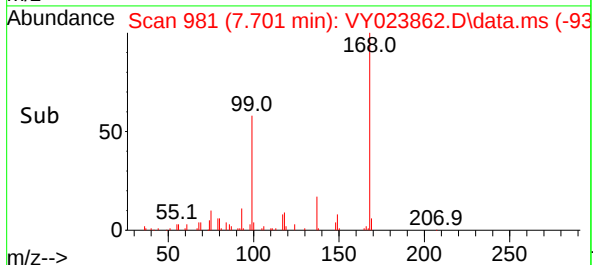
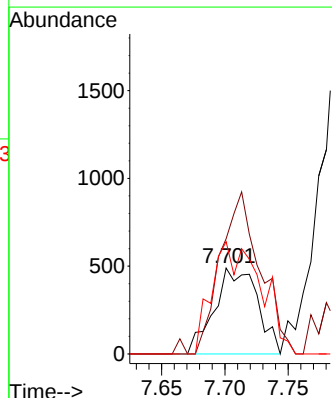
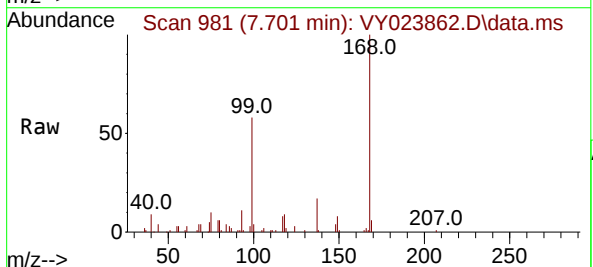
Tgt Ion: 56 Resp: 1159

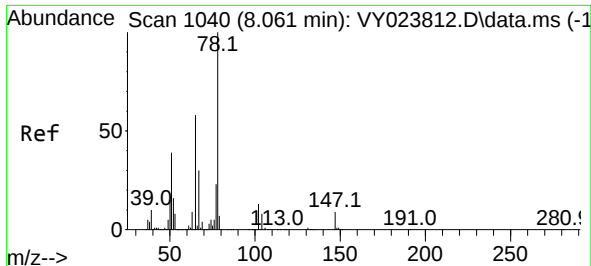
Ion Ratio Lower Upper

56 100

69 116.6 27.8 41.6#

84 130.9 71.8 107.8#





#33

1,2-Dichloroethane-d4

Concen: 51.220 ug/l

RT: 8.067 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Instrument :

MSVOA_Y

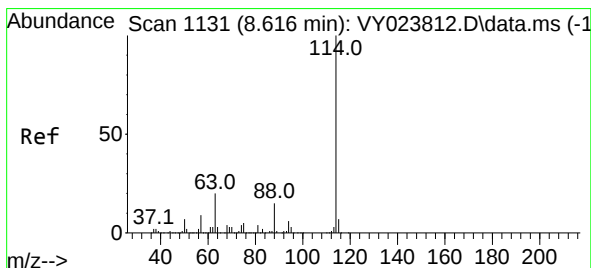
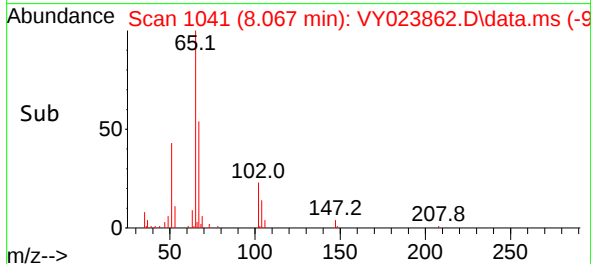
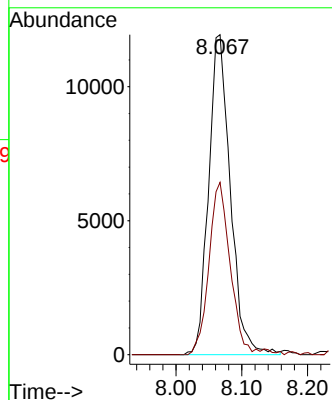
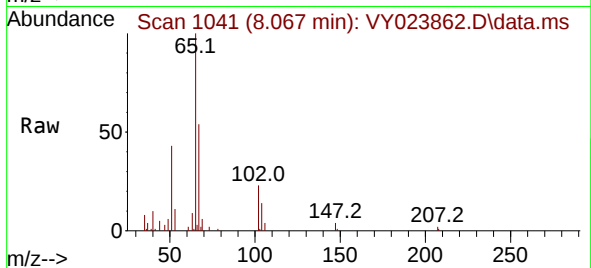
ClientSampleId :

Tgt Ion: 65 Resp: 27420

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

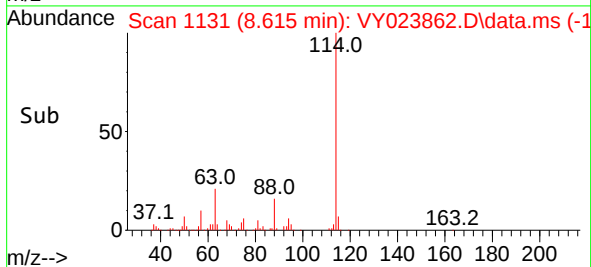
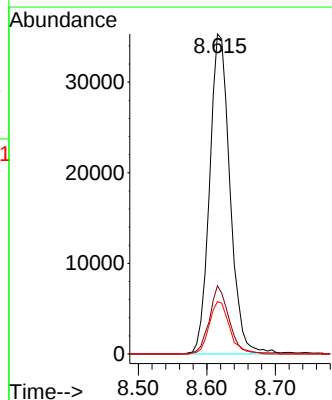
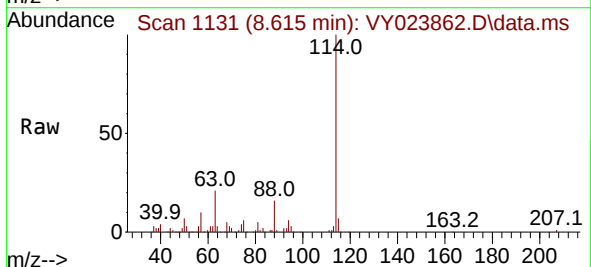
Tgt Ion:114 Resp: 72938

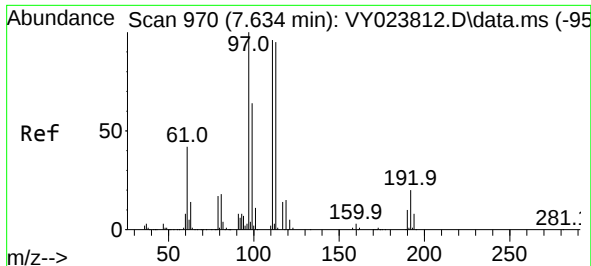
Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.4

88 16.3 0.0 30.8

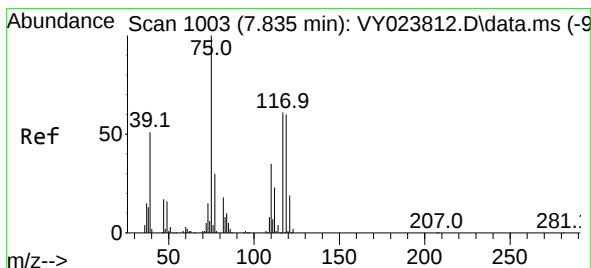
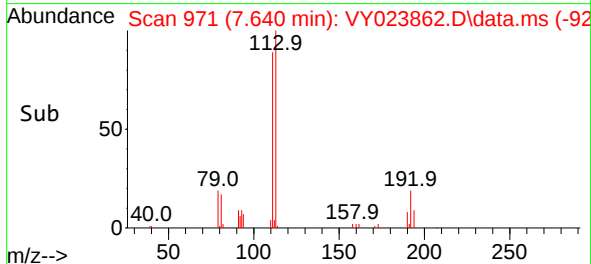
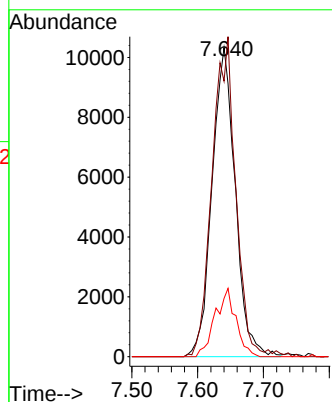
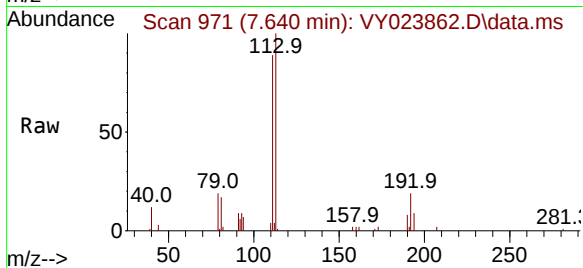




#35
Dibromofluoromethane
Concen: 58.830 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

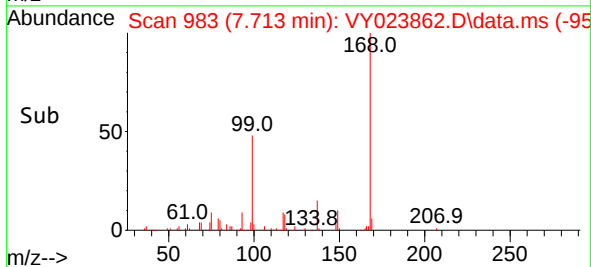
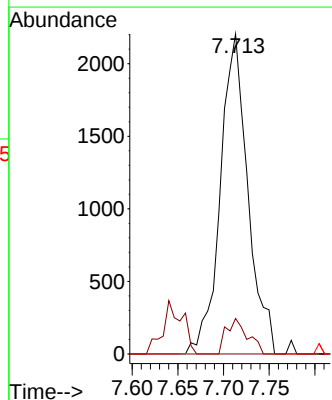
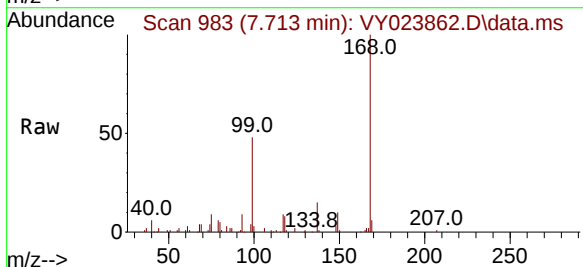
Instrument :
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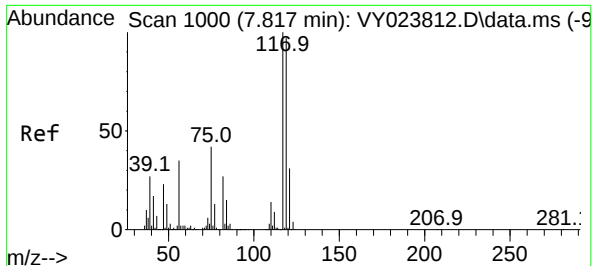
Tgt Ion:113 Resp: 25419
Ion Ratio Lower Upper
113 100
111 103.9 81.4 122.0
192 19.8 15.8 23.8



#36
1,1-Dichloropropene
Concen: 6.975 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

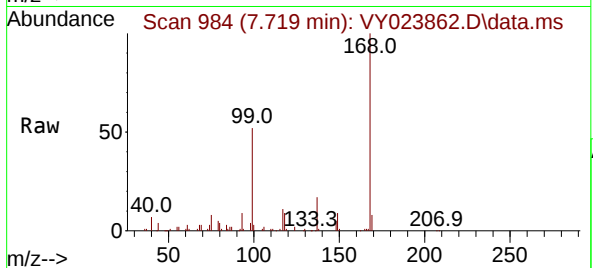
Tgt Ion: 75 Resp: 4621
Ion Ratio Lower Upper
75 100
110 8.6 17.6 52.8#
77 0.0 24.9 37.3#



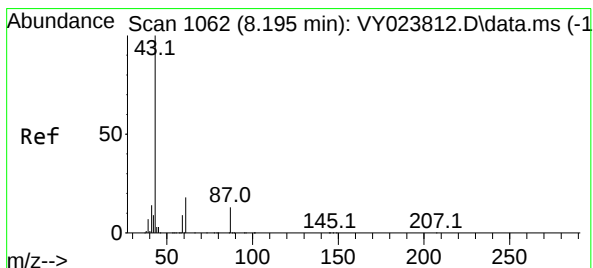
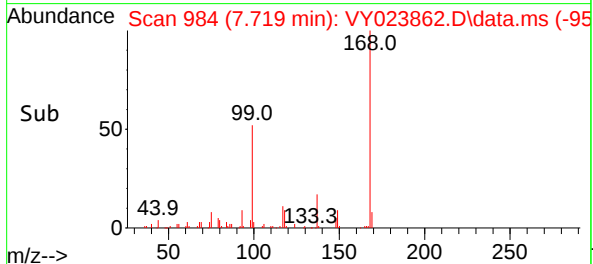
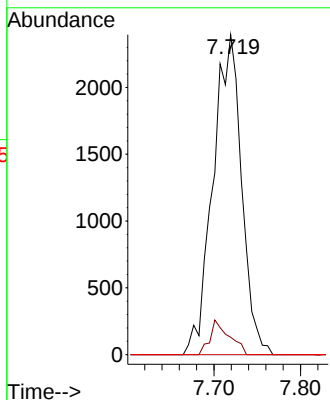


#38
Carbon Tetrachloride
Concen: 7.557 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.098 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Instrument :
MSVOA_Y
ClientSampleId :

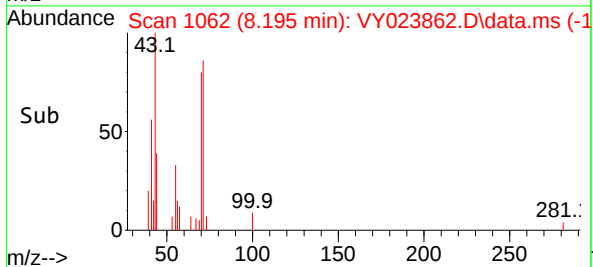
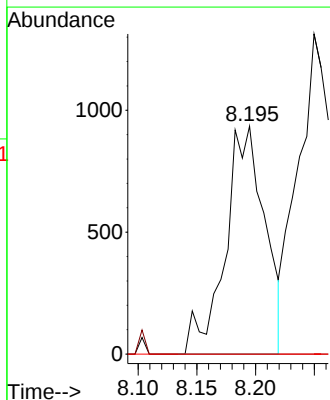
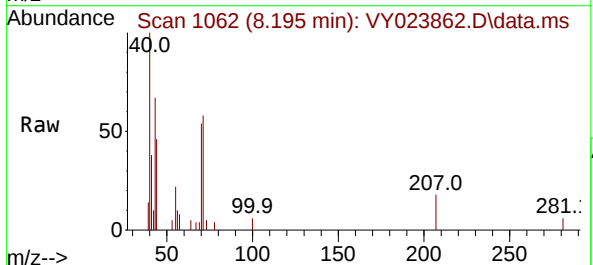


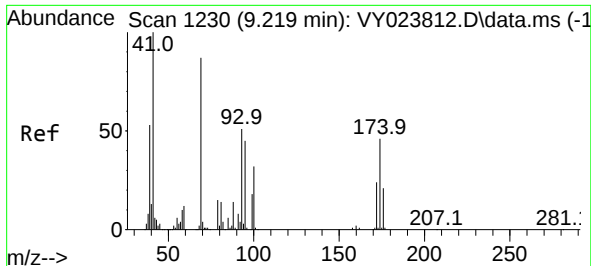
Tgt Ion:117 Resp: 5495
Ion Ratio Lower Upper
117 100
119 5.4 77.3 115.9#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 3.752 ug/l
RT: 8.195 min Scan# 1062
Delta R.T. -0.000 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 43 Resp: 2185
Ion Ratio Lower Upper
43 100
61 0.0 24.3 36.5#
87 0.0 11.0 16.4#





#48

Methyl methacrylate

Concen: 2.590 ug/l

RT: 9.243 min Scan# 11

Delta R.T. 0.024 min

Lab File: VY023862.D

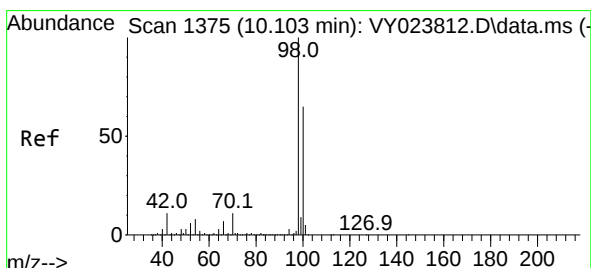
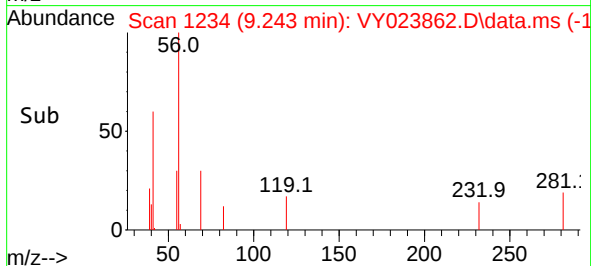
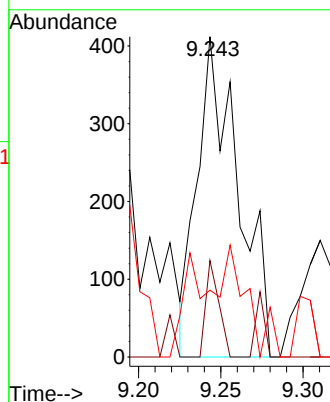
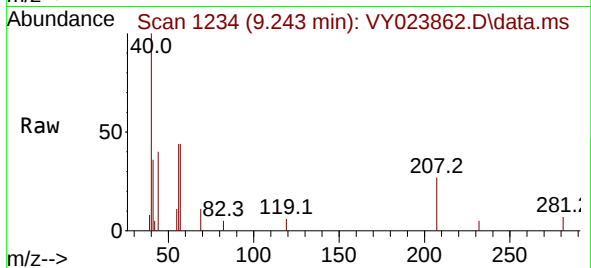
Acq: 02 Dec 2025 16:20

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 41	Resp: 710
Ion Ratio	Lower Upper
41 100	
69 9.6	69.1 103.7#
39 21.8	41.2 61.8#



#50

Toluene-d8

Concen: 49.799 ug/l

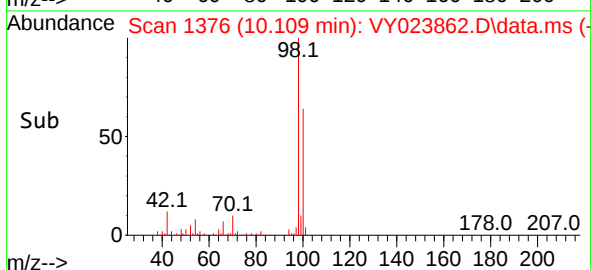
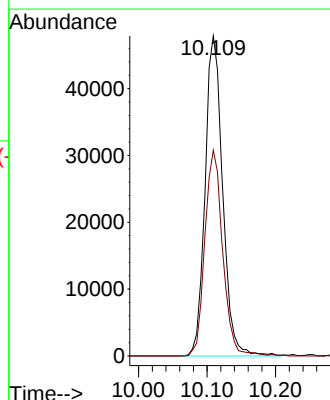
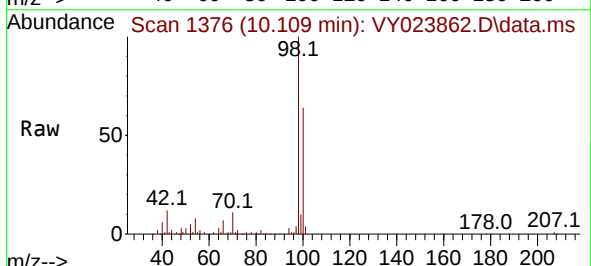
RT: 10.109 min Scan# 1376

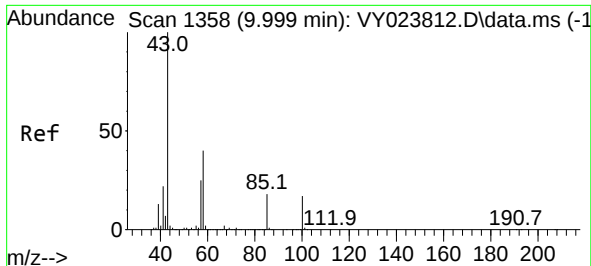
Delta R.T. 0.006 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Tgt Ion: 98	Resp: 85466
Ion Ratio	Lower Upper
98 100	
100 65.4	51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 3.549 ug/l

RT: 10.042 min Scan# 11

Delta R.T. 0.043 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Instrument :

MSVOA_Y

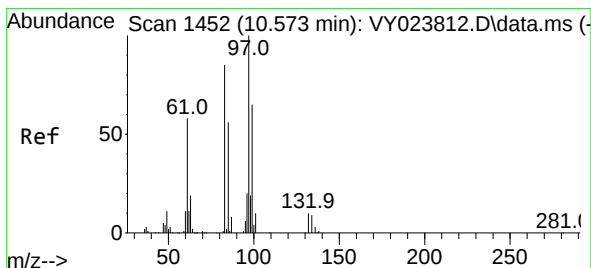
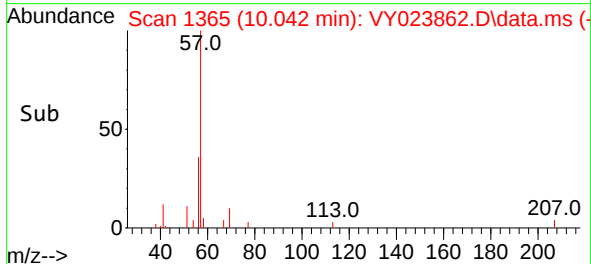
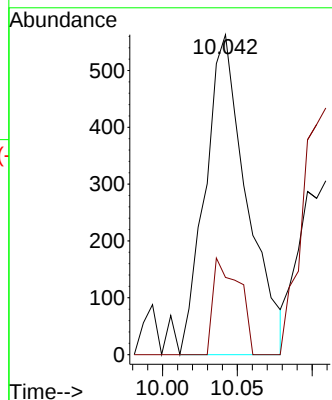
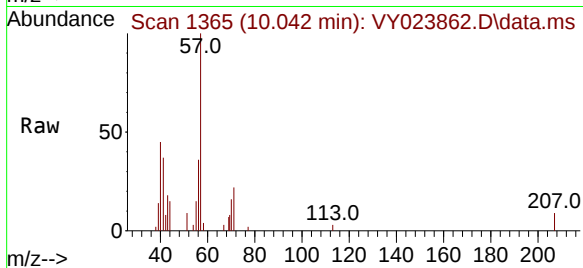
ClientSampleId :

Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 18.8 32.4 48.6#



#55

1,1,2-Trichloroethane

Concen: 3.054 ug/l

RT: 10.548 min Scan# 1448

Delta R.T. -0.024 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Tgt Ion: 97 Resp: 1067

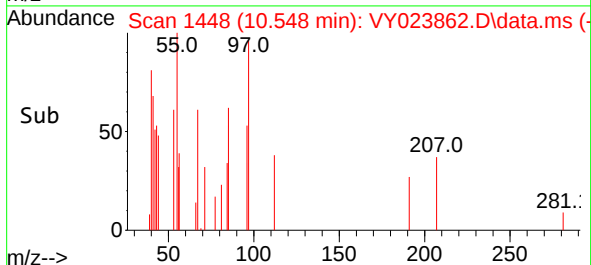
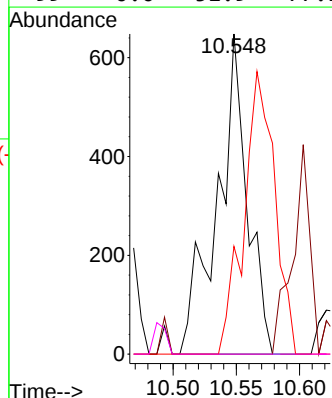
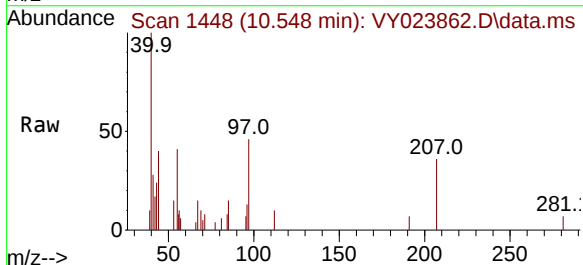
Ion Ratio Lower Upper

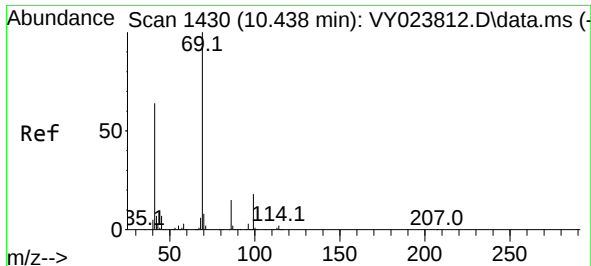
97 100

83 0.0 68.1 102.1#

85 33.6 45.0 67.4#

99 0.0 51.9 77.9#

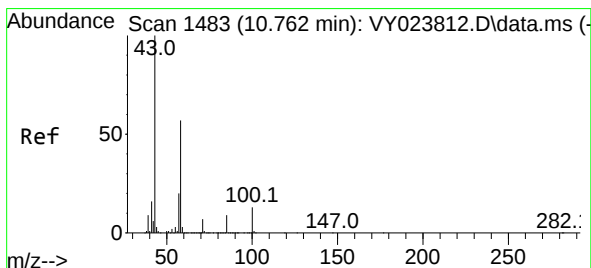
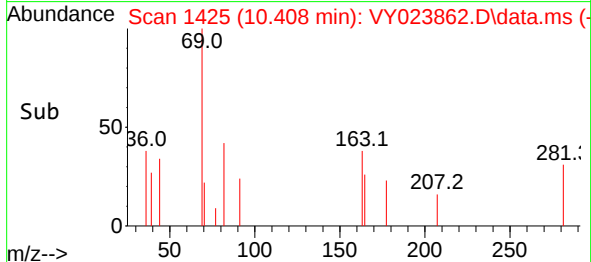
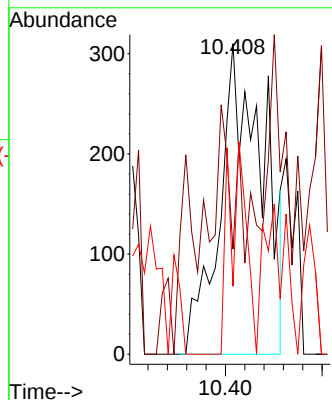
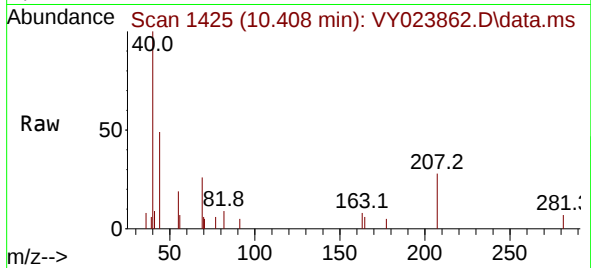




#56
Ethyl methacrylate
Concen: 2.093 ug/l
RT: 10.408 min Scan# 1425
Delta R.T. -0.031 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

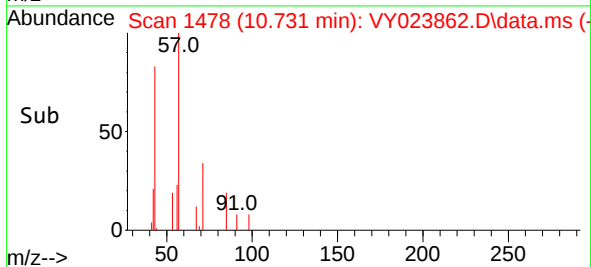
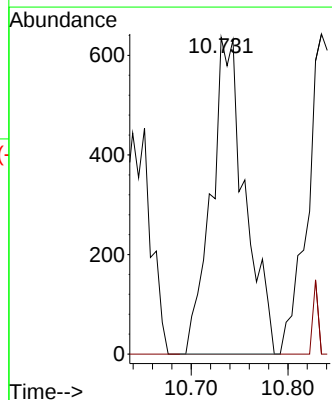
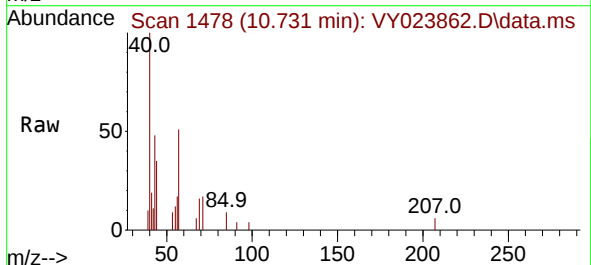
Instrument :
MSVOA_Y
ClientSampleId :

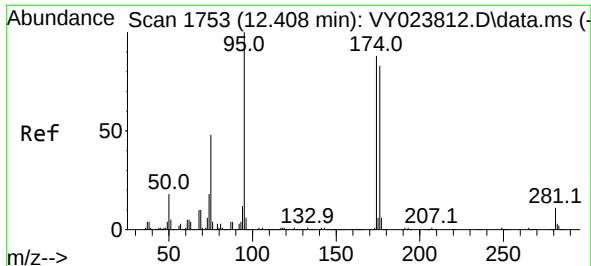
Tgt Ion: 69 Resp: 960
Ion Ratio Lower Upper
69 100
41 16.9 50.9 76.3#
39 27.2 26.6 40.0



#59
2-Hexanone
Concen: 6.776 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.031 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 43 Resp: 1536
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#

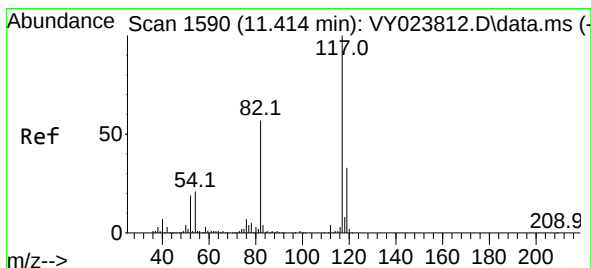
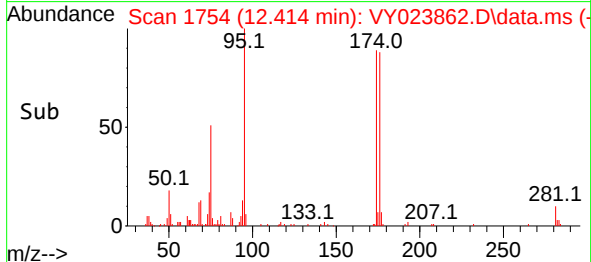
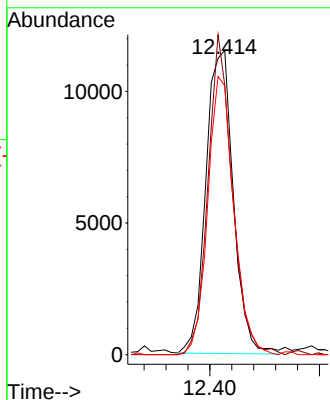
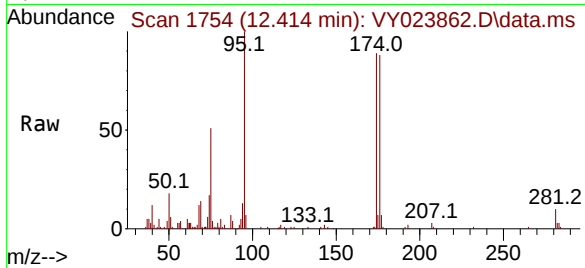




#62
4-Bromofluorobenzene
Concen: 35.542 ug/l
RT: 12.414 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

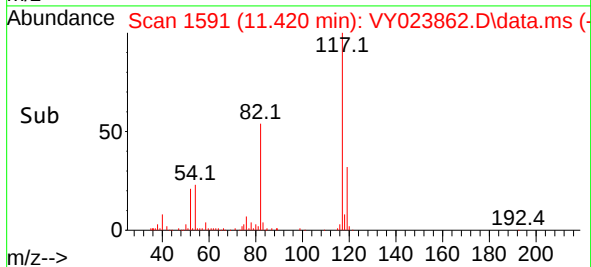
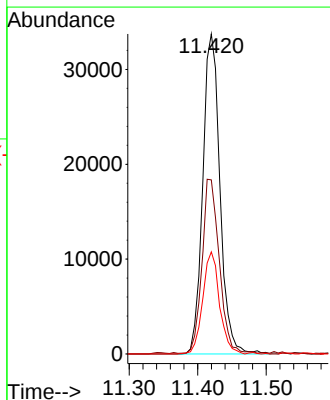
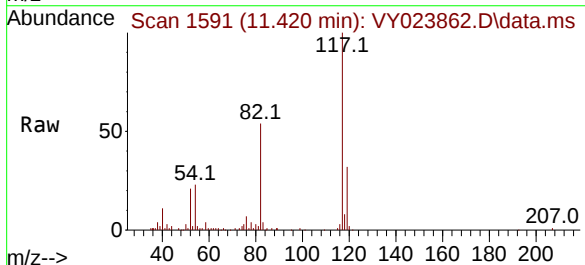
Instrument :
MSVOA_Y
ClientSampleId :

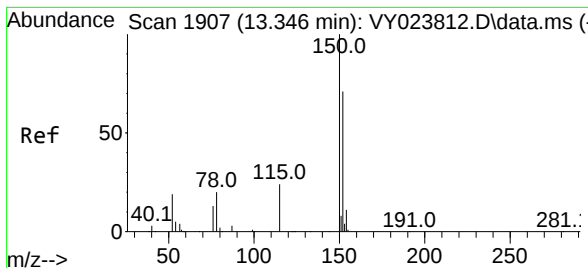
Tgt Ion: 95 Resp: 20070
Ion Ratio Lower Upper
95 100
174 92.7 0.0 168.6
176 87.4 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023862.D
Acq: 02 Dec 2025 16:20

Tgt Ion: 117 Resp: 58949
Ion Ratio Lower Upper
117 100
82 54.2 45.4 68.0
119 31.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023862.D

Acq: 02 Dec 2025 16:20

Instrument :

MSVOA_Y

ClientSampleId :

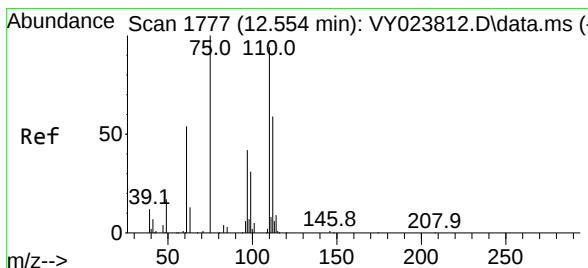
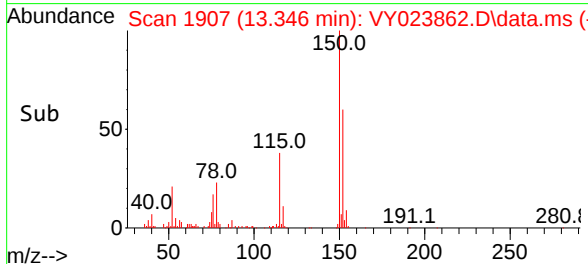
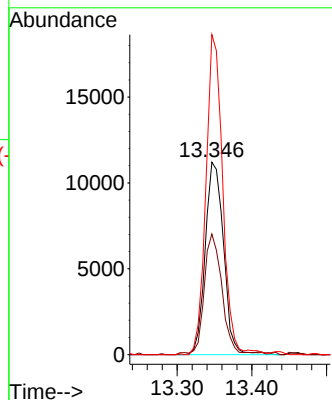
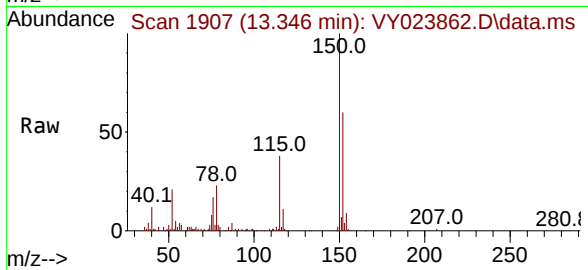
Tgt Ion:152 Resp: 19096

Ion Ratio Lower Upper

152 100

115 61.0 28.7 86.3

150 151.7 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 62.296 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023862.D

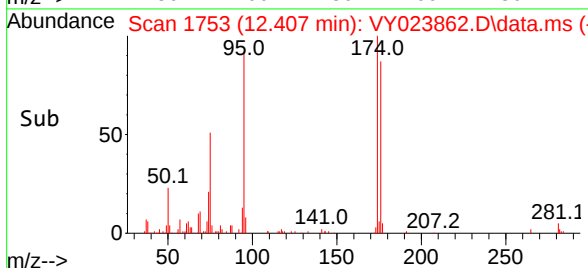
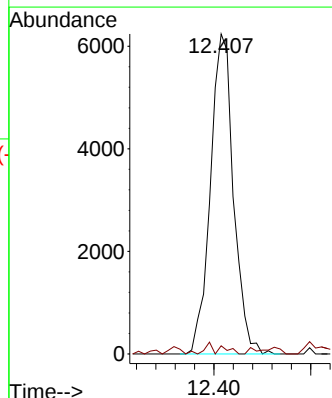
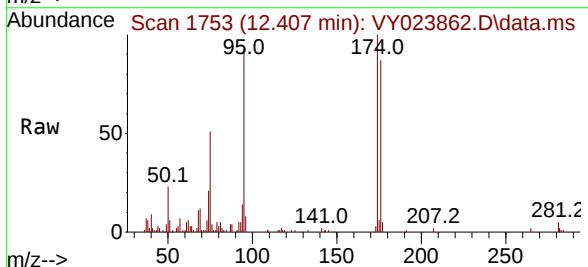
Acq: 02 Dec 2025 16:20

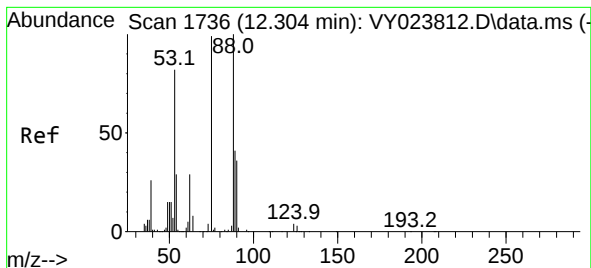
Tgt Ion: 75 Resp: 10345

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

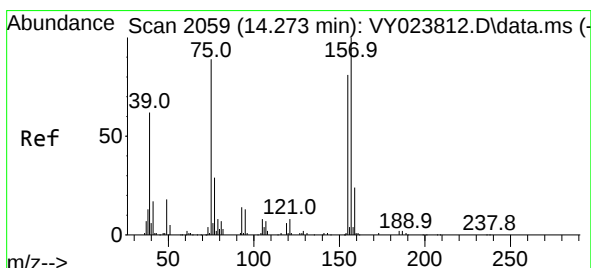
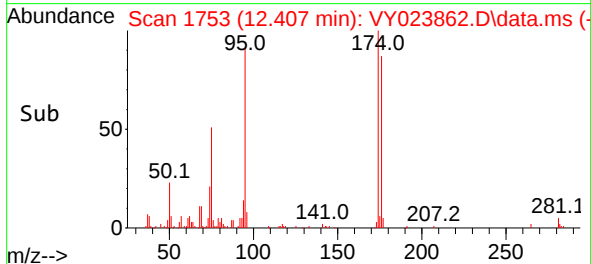
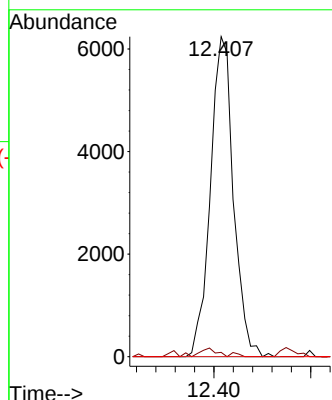
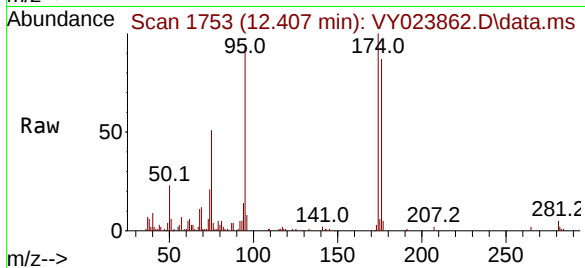




#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.675 ug/l
 RT: 12.407 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023862.D
 Acq: 02 Dec 2025 16:20

Instrument :
 MSVOA_Y
 ClientSampleId :

Tgt Ion: 75 Resp: 10345
 Ion Ratio Lower Upper
 75 100
 53 1.8 71.3 106.9#
 89 0.0 37.0 55.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.687 ug/l
 RT: 14.285 min Scan# 2061
 Delta R.T. 0.012 min
 Lab File: VY023862.D
 Acq: 02 Dec 2025 16:20

Tgt Ion: 75 Resp: 63
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.0 132.1#
 157 0.0 54.6 163.8#

