

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023512.D
 Acq On : 20 Oct 2025 16:33
 Operator : SY/MD
 Sample : Q3381-03
 Misc : 5.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 04:01:15 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)

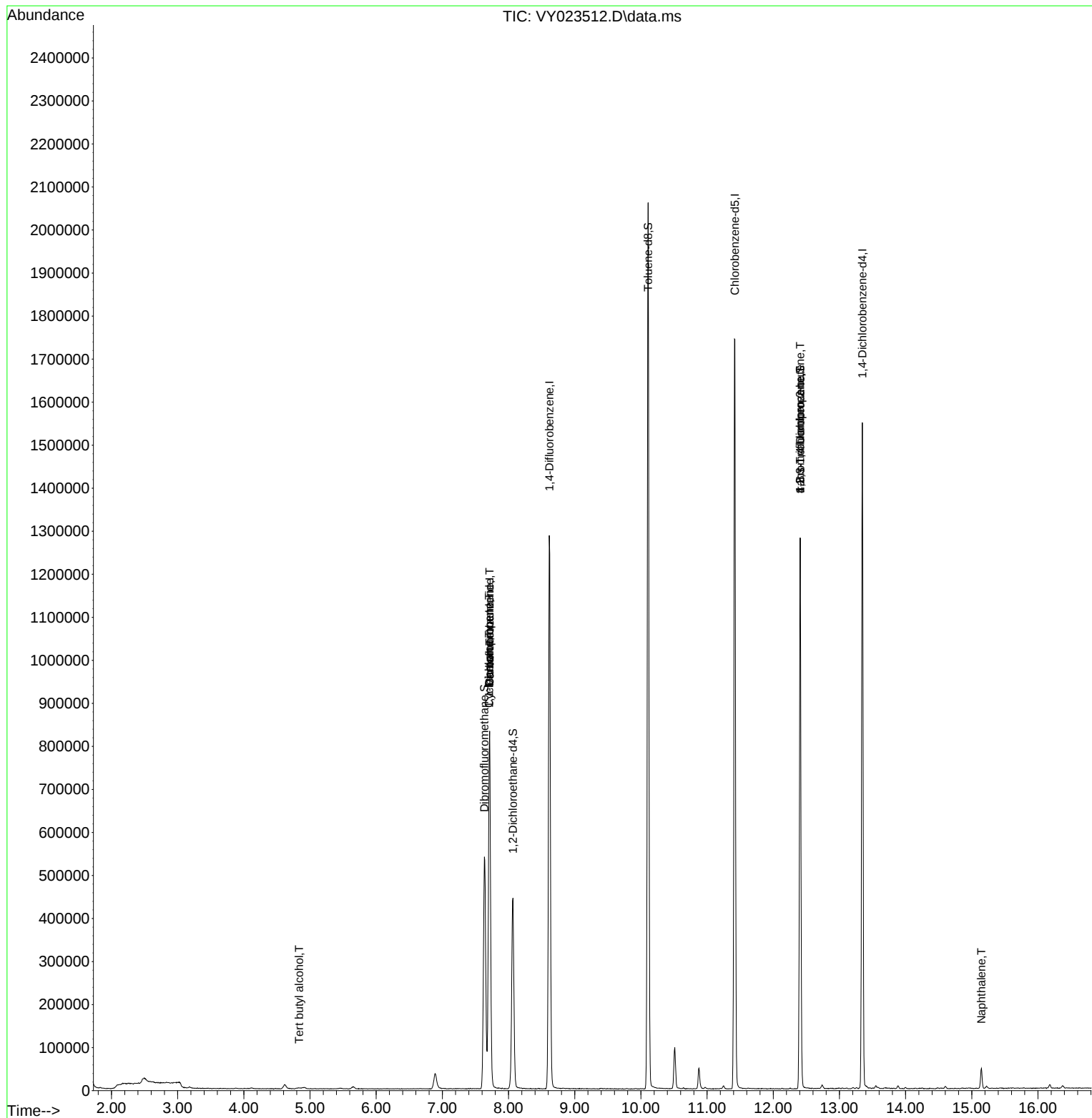
Internal Standards						
1) Pentafluorobenzene	7.713	168	689064	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1179609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1005959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	403788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	345044	59.882	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.760%	
35) Dibromofluoromethane	7.634	113	388514	53.602	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.200%	
50) Toluene-d8	10.109	98	1342516	49.736	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.480%	
62) 4-Bromofluorobenzene	12.408	95	365583	41.023	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 82.040%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.836	59	2785	6.497	ug/l #	72
31) Cyclohexane	7.707	56	11881	1.240	ug/l #	4
36) 1,1-Dichloropropene	7.707	75	46662	4.863	ug/l #	48
38) Carbon Tetrachloride	7.713	117	62158	5.342	ug/l #	15
76) 1,2,3-Trichloropropane	12.408	75	180912	50.782	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	180912	124.528	ug/l #	15
95) Naphthalene	15.145	128	39132	3.264	ug/l	98

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

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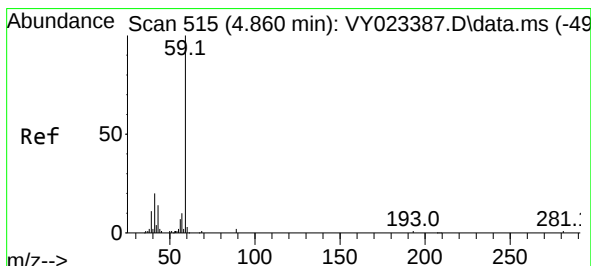
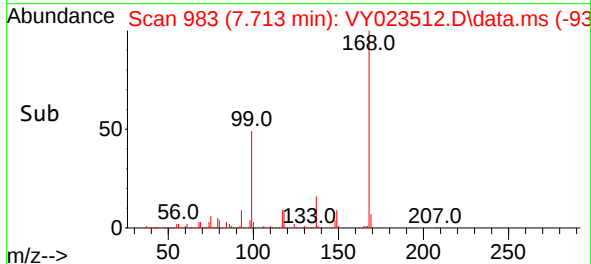
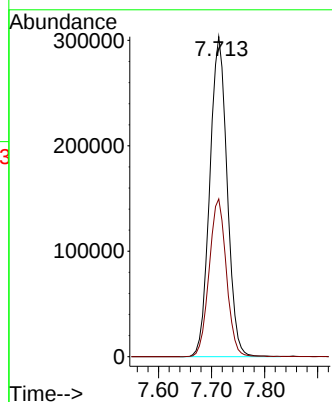
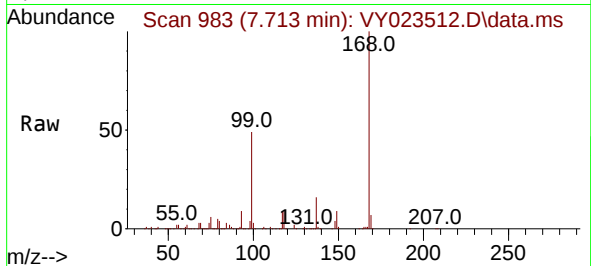




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

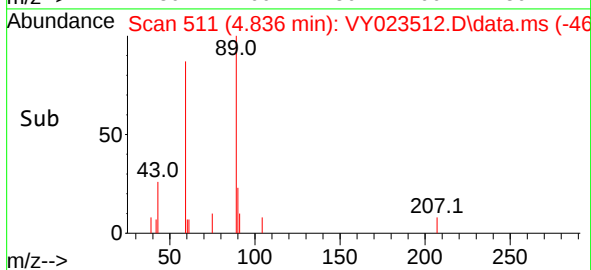
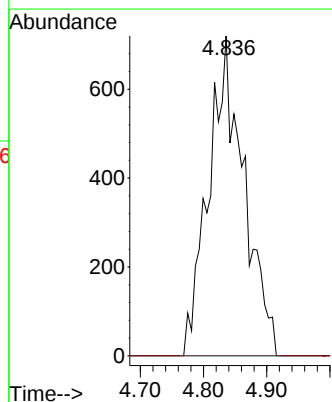
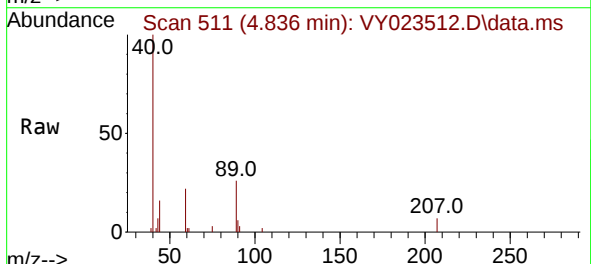
Instrument :
MSVOA_Y
ClientSampleId :

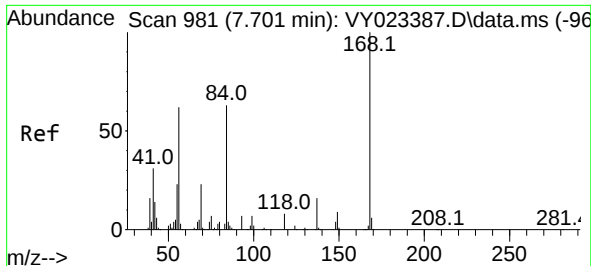
Tgt Ion:168 Resp: 689064
Ion Ratio Lower Upper
168 100
99 49.3 39.7 59.5



#11
Tert butyl alcohol
Concen: 6.497 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.024 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

Tgt Ion: 59 Resp: 2785
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

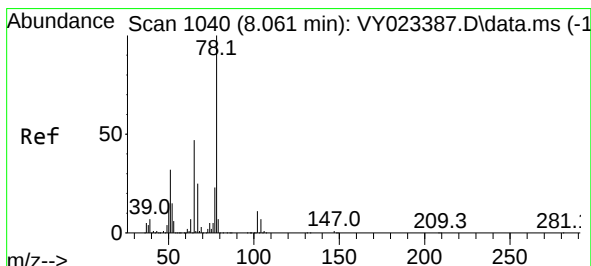
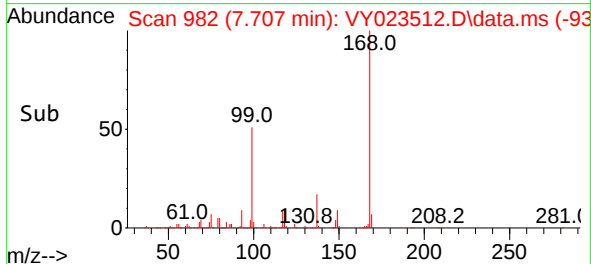
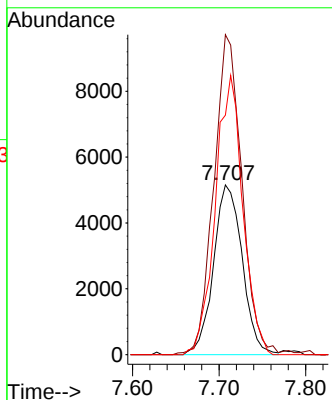
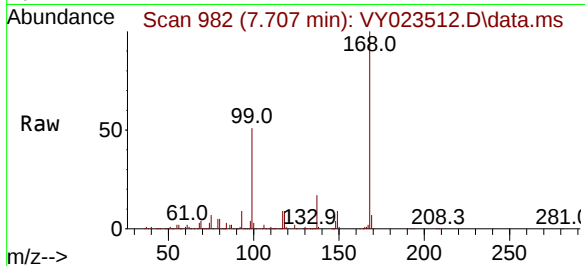




#31
Cyclohexane
Concen: 1.240 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

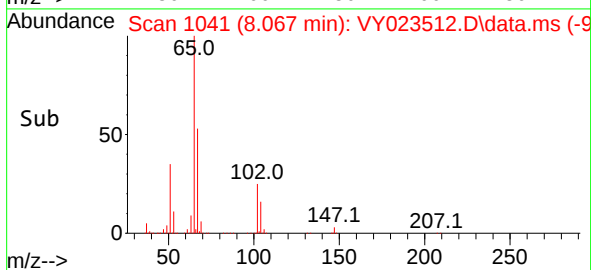
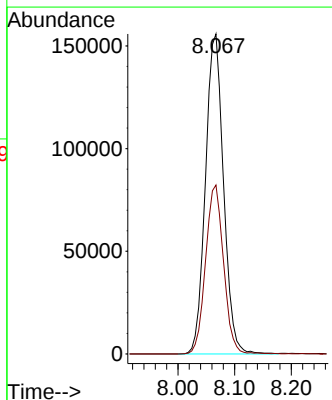
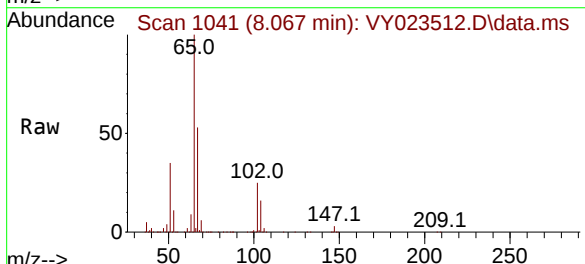
Instrument :
MSVOA_Y
ClientSampleId :

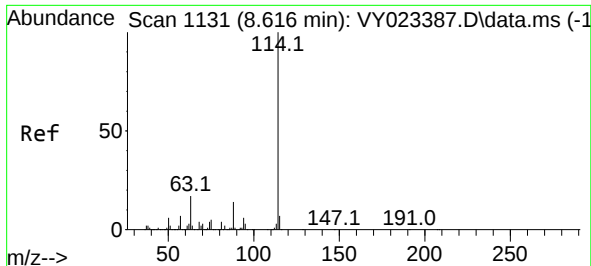
Tgt Ion: 56 Resp: 11881
Ion Ratio Lower Upper
56 100
69 187.4 30.0 45.0#
84 141.0 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 59.882 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

Tgt Ion: 65 Resp: 345044
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.8

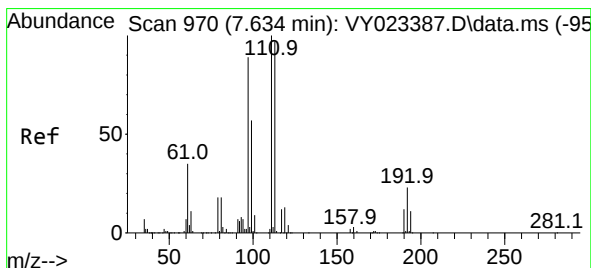
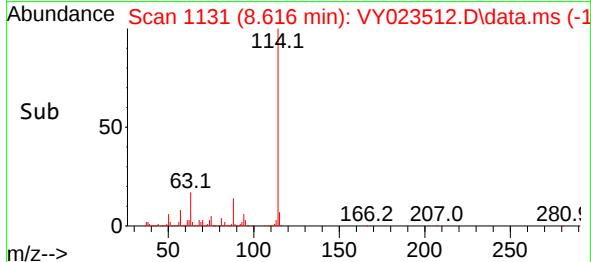
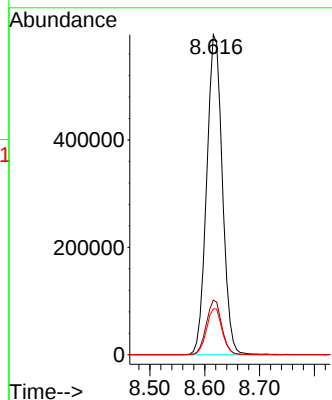
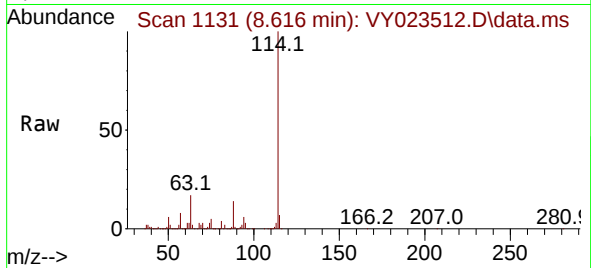




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

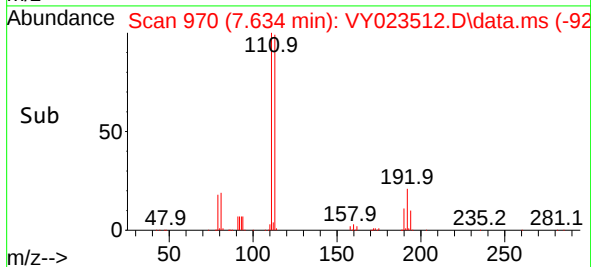
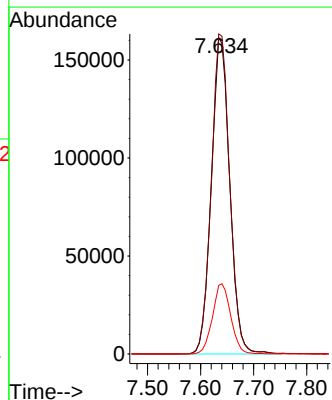
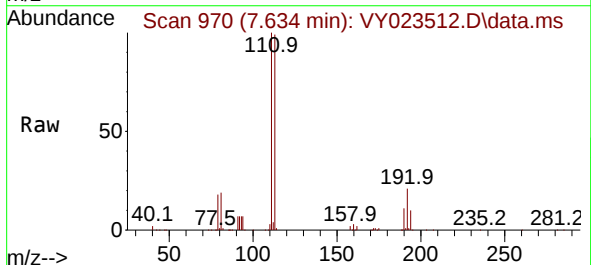
Instrument :
MSVOA_Y
ClientSampleId :

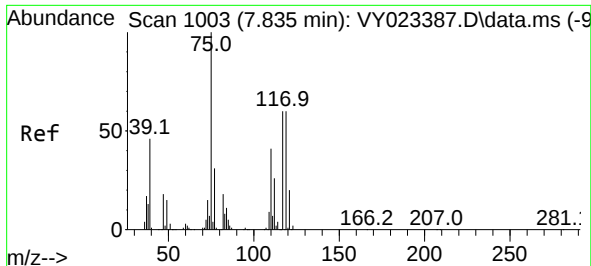
Tgt Ion:114 Resp: 1179609
Ion Ratio Lower Upper
114 100
63 17.1 0.0 34.2
88 14.3 0.0 28.4



#35
Dibromofluoromethane
Concen: 53.602 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

Tgt Ion:113 Resp: 388514
Ion Ratio Lower Upper
113 100
111 101.6 81.8 122.6
192 22.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.863 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

Instrument :

MSVOA_Y

ClientSampleId :

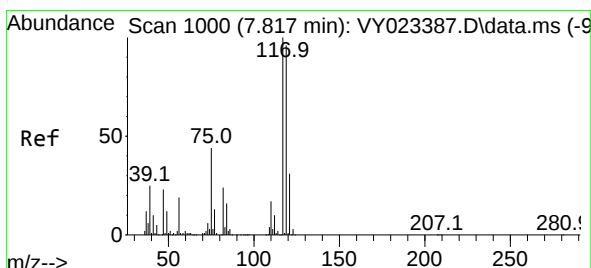
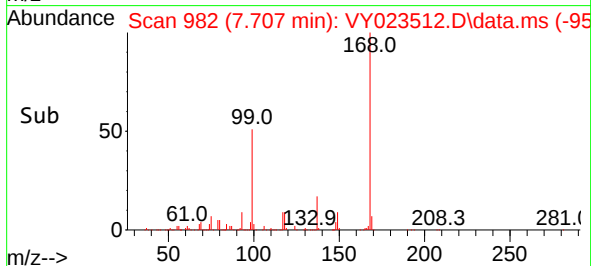
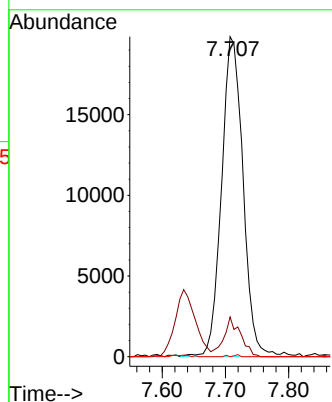
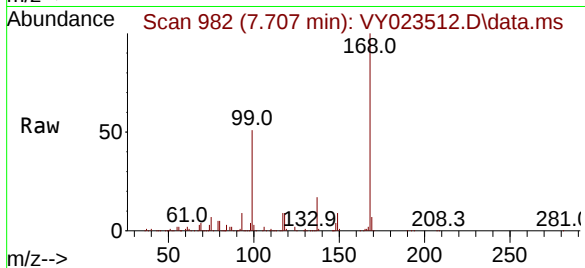
Tgt Ion: 75 Resp: 46662

Ion Ratio Lower Upper

75 100

110 9.7 19.9 59.7#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.342 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

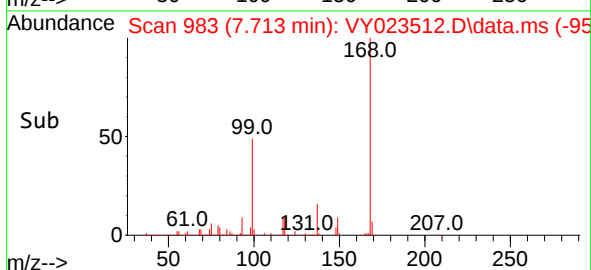
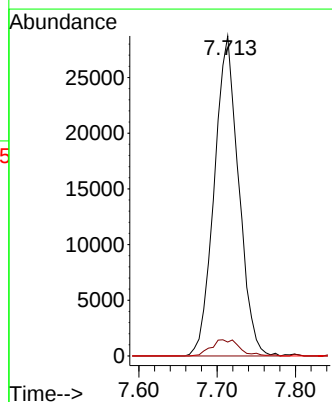
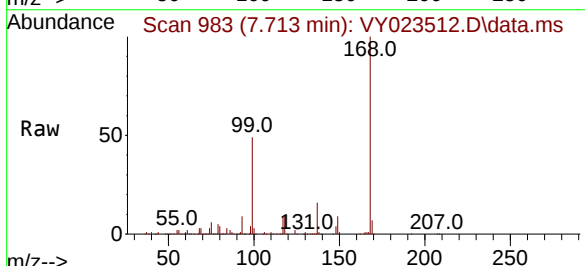
Tgt Ion: 117 Resp: 62158

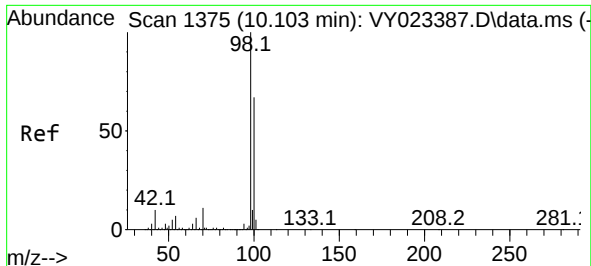
Ion Ratio Lower Upper

117 100

119 4.3 76.8 115.2#

121 0.0 24.5 36.7#

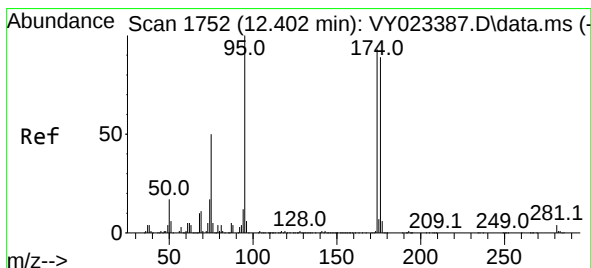
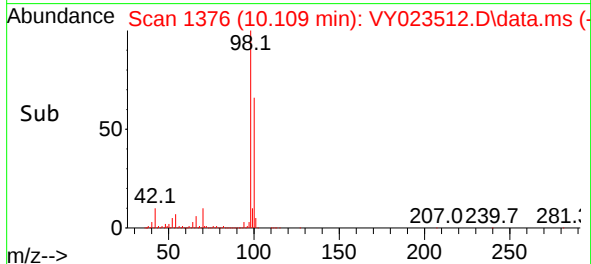
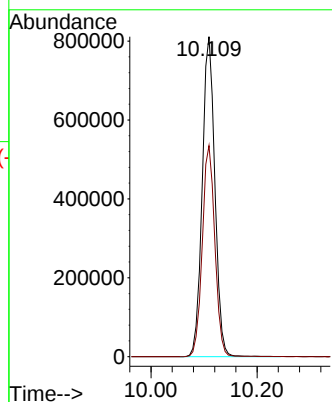
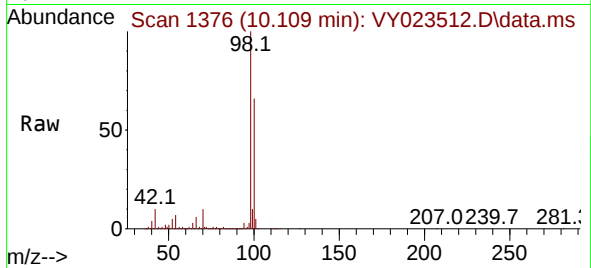




#50
Toluene-d8
Concen: 49.736 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

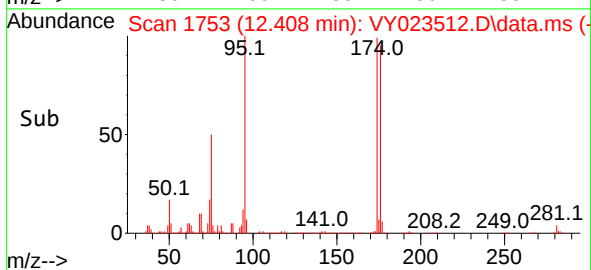
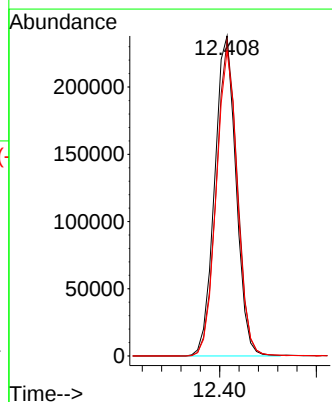
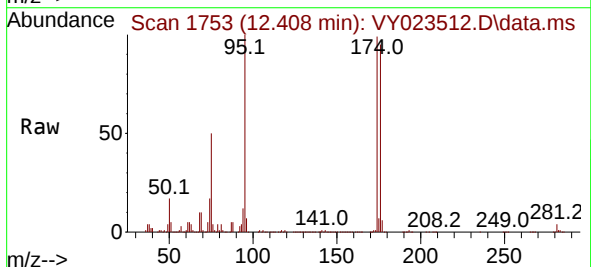
Instrument :
MSVOA_Y
ClientSampleId :

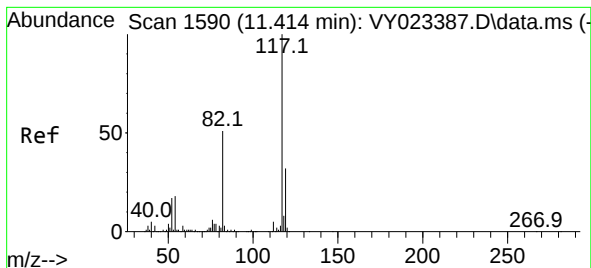
Tgt Ion: 98 Resp: 1342516
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 41.023 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023512.D
Acq: 20 Oct 2025 16:33

Tgt Ion: 95 Resp: 365583
Ion Ratio Lower Upper
95 100
174 97.1 0.0 192.8
176 93.9 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

Instrument :

MSVOA_Y

ClientSampleId :

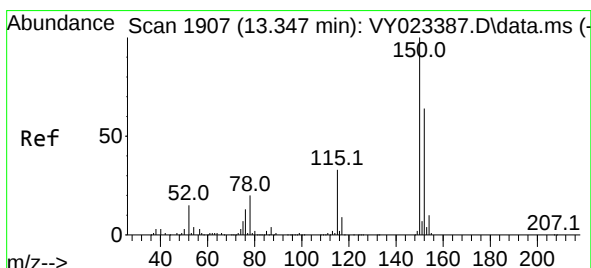
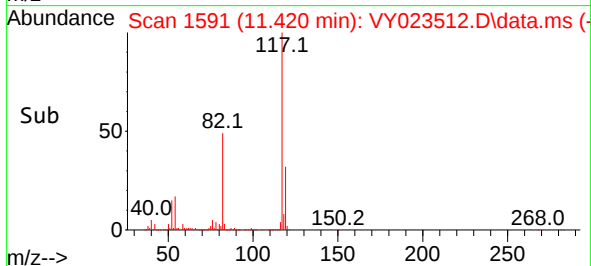
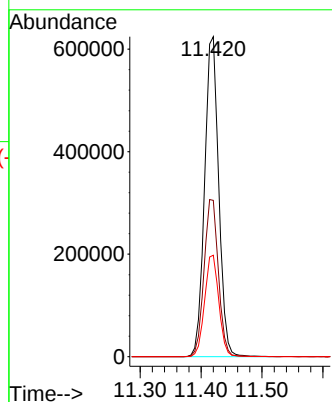
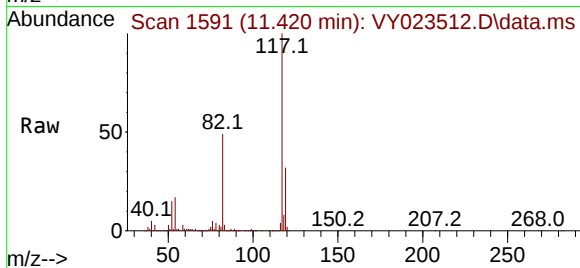
Tgt Ion:117 Resp: 1005959

Ion Ratio Lower Upper

117 100

82 48.9 41.0 61.4

119 31.7 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

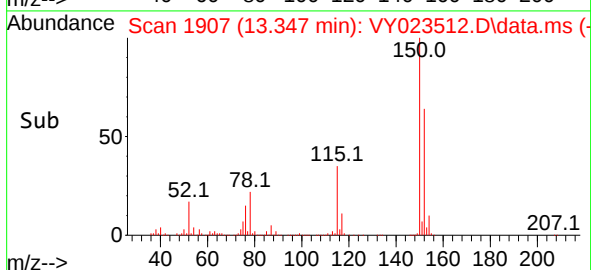
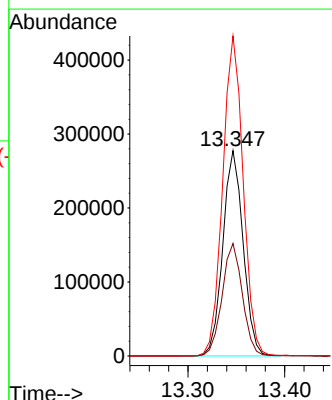
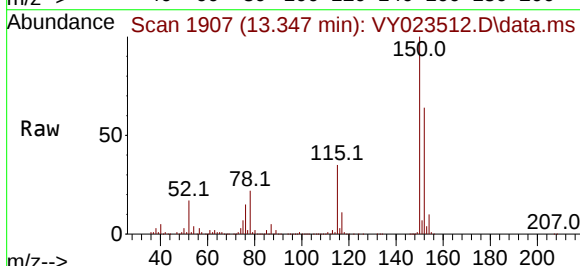
Tgt Ion:152 Resp: 403788

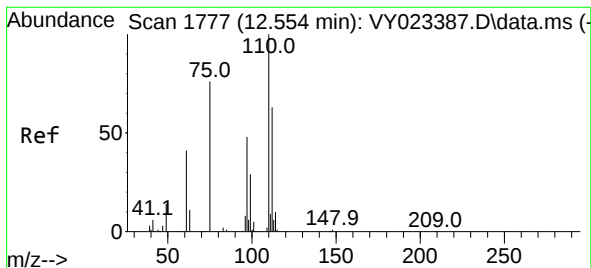
Ion Ratio Lower Upper

152 100

115 54.8 27.1 81.2

150 157.4 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 50.782 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

Instrument :

MSVOA_Y

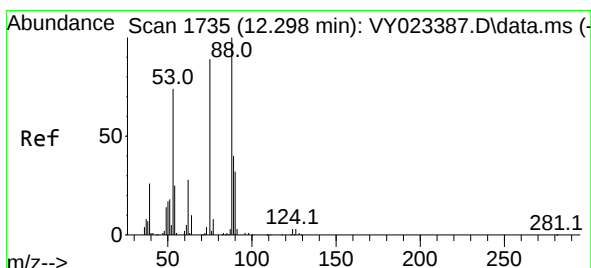
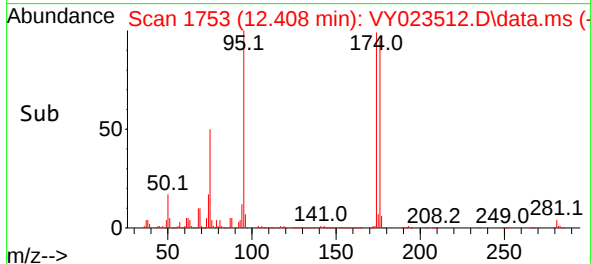
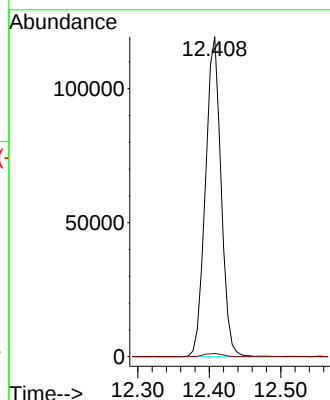
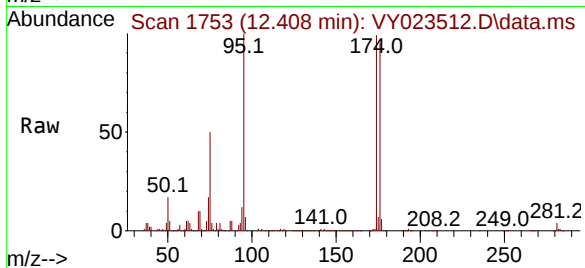
ClientSampleId :

Tgt Ion: 75 Resp: 180912

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.528 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.110 min

Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

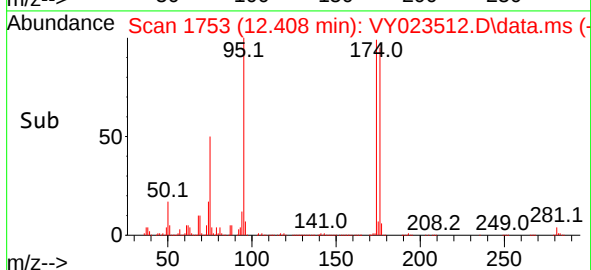
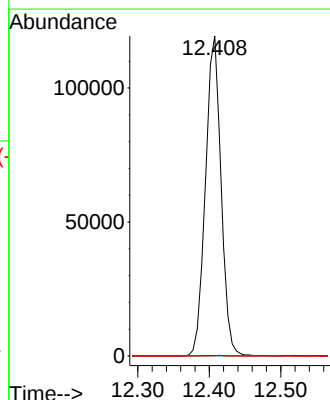
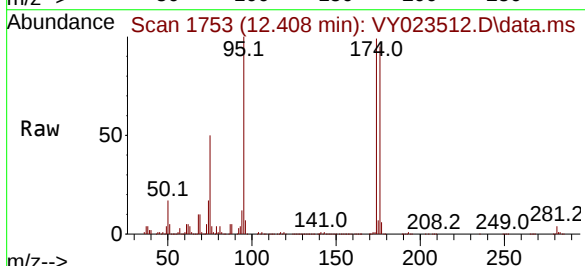
Tgt Ion: 75 Resp: 180912

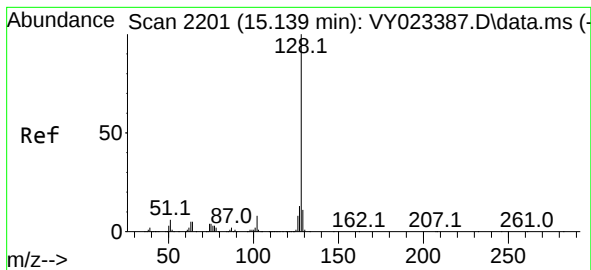
Ion Ratio Lower Upper

75 100

53 0.2 68.6 102.8#

89 0.1 39.0 58.4#





#95

Naphthalene

Concen: 3.264 ug/l

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

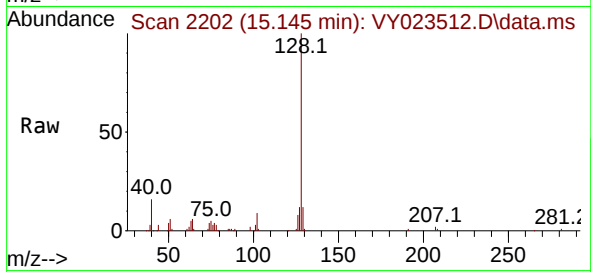
Lab File: VY023512.D

Acq: 20 Oct 2025 16:33

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 39132

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.8 8.9 13.3

