

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023513.D
 Acq On : 20 Oct 2025 16:57
 Operator : SY/MD
 Sample : Q3381-05
 Misc : 4.38g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 04:01:34 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)

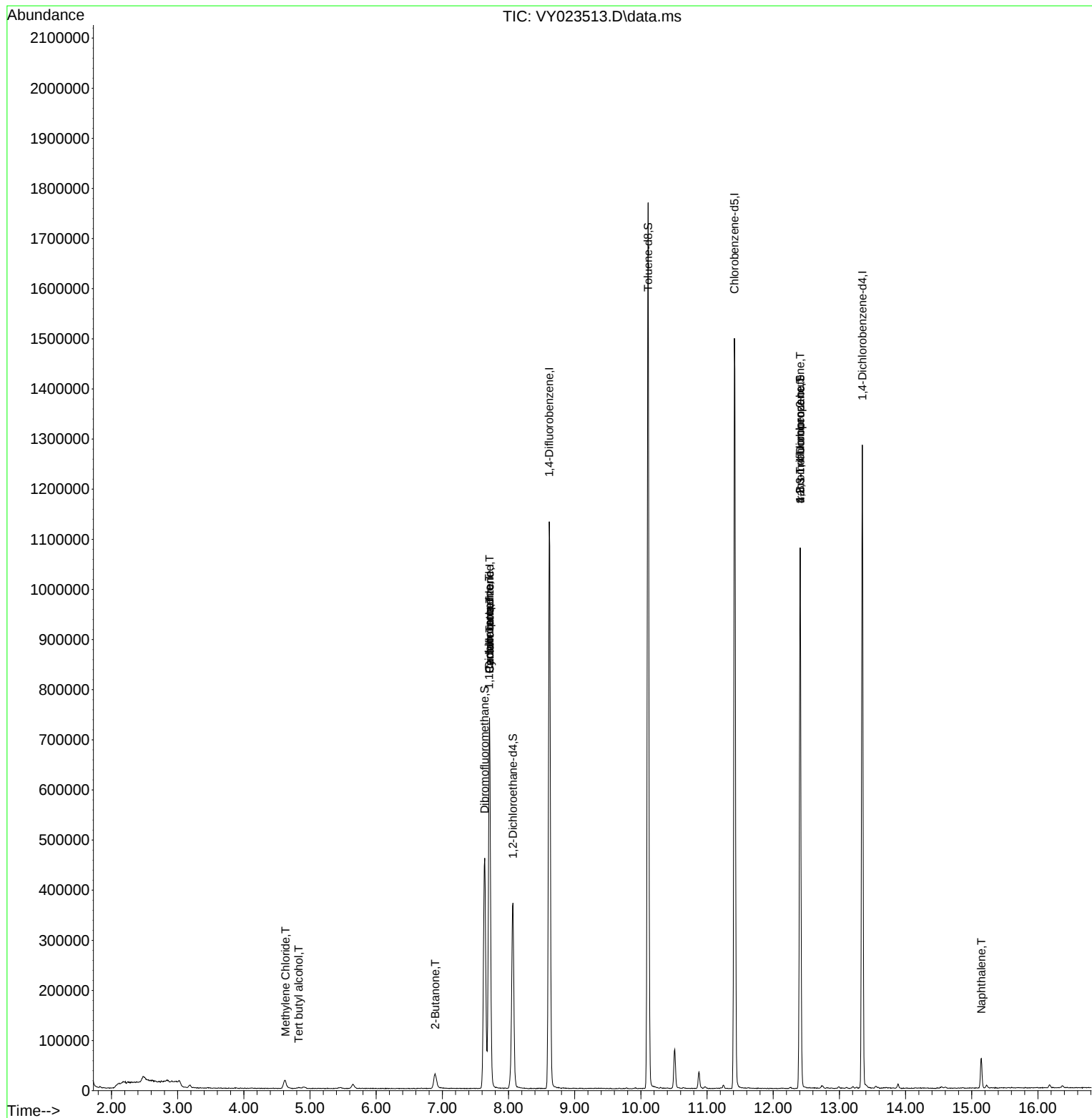
Internal Standards						
1) Pentafluorobenzene	7.713	168	607738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1025761	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	861546	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	341223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	279090	54.917	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.840%	
35) Dibromofluoromethane	7.640	113	332867	52.812	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.620%	
50) Toluene-d8	10.109	98	1159213	49.386	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.780%	
62) 4-Bromofluorobenzene	12.408	95	308773	39.845	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 79.680%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.830	59	1425	3.769	ug/l #	72
20) Methylene Chloride	4.629	84	12619	1.929	ug/l	90
25) 2-Butanone	6.890	43	1752	1.186	ug/l #	40
31) Cyclohexane	7.713	56	11082	1.311	ug/l #	4
36) 1,1-Dichloropropene	7.707	75	41466	4.969	ug/l #	47
38) Carbon Tetrachloride	7.713	117	54205	5.357	ug/l #	15
76) 1,2,3-Trichloropropane	12.408	75	152289	50.586	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	152289	124.046	ug/l #	14
95) Naphthalene	15.145	128	50841	5.018	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
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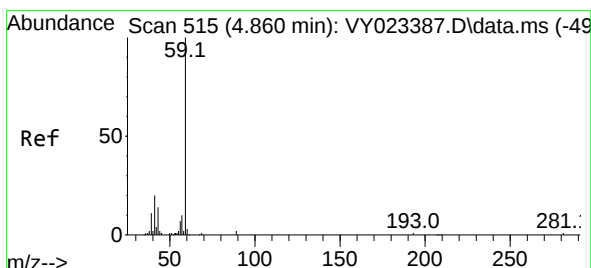
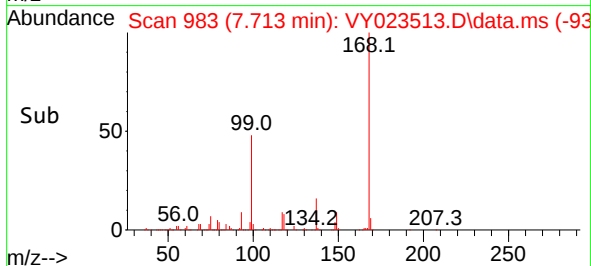
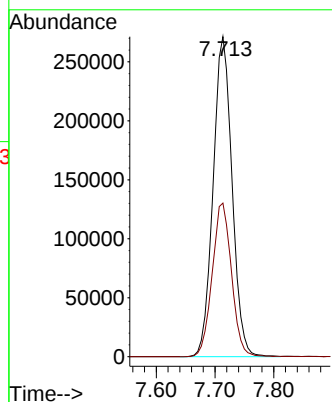
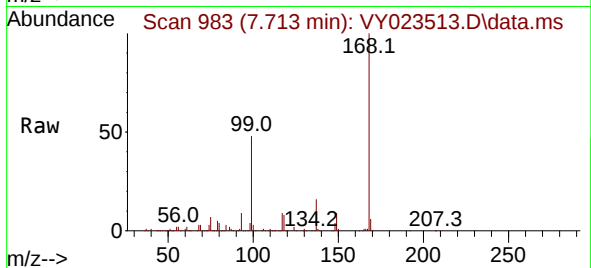




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

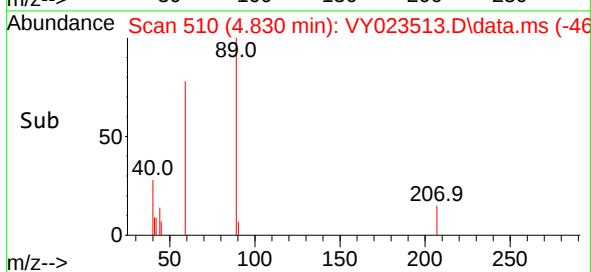
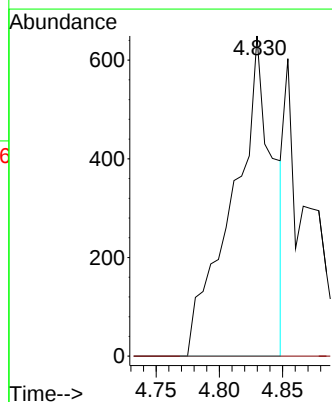
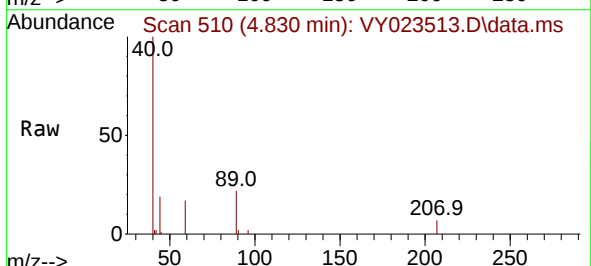
Instrument :
MSVOA_Y
ClientSampleId :

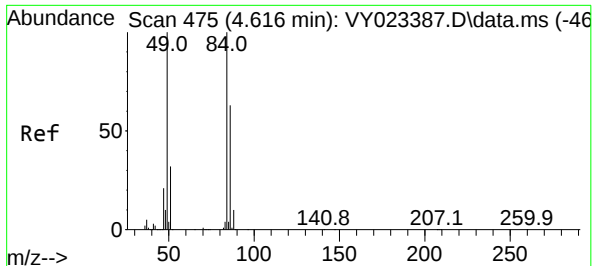
Tgt Ion:168 Resp: 607738
Ion Ratio Lower Upper
168 100
99 48.0 39.7 59.5



#11
Tert butyl alcohol
Concen: 3.769 ug/l
RT: 4.830 min Scan# 510
Delta R.T. -0.030 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

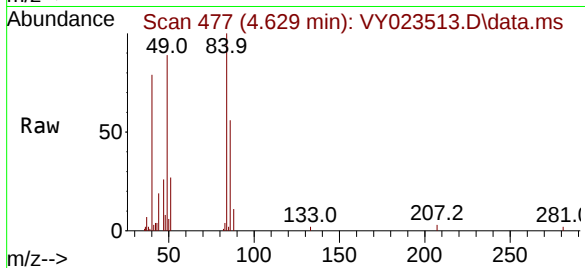
Tgt Ion: 59 Resp: 1425
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



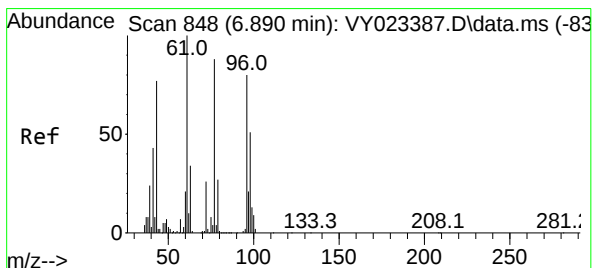
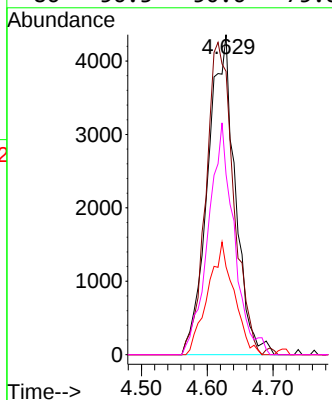
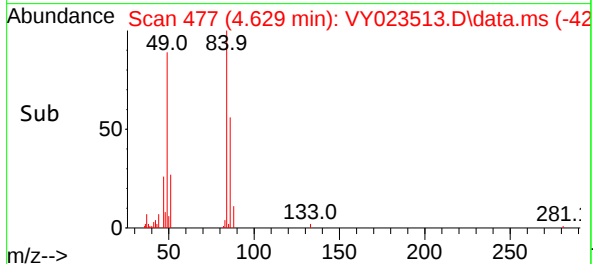


#20
Methylene Chloride
Concen: 1.929 ug/l
RT: 4.629 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

Instrument :
MSVOA_Y
ClientSampleId :

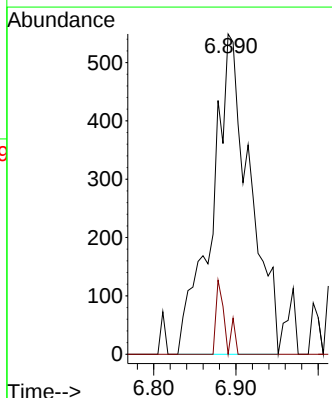
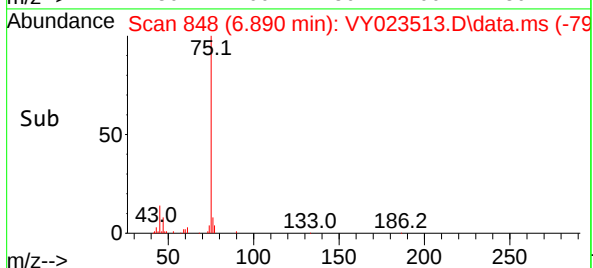
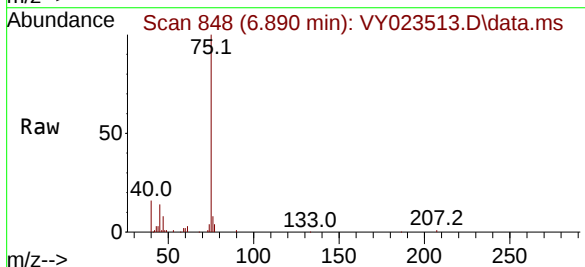


Tgt Ion: 84	Resp: 12619
Ion Ratio	Lower Upper
84 100	
49 88.5	80.2 120.4
51 27.4	25.9 38.9
86 56.3	50.6 75.8



#25
2-Butanone
Concen: 1.186 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

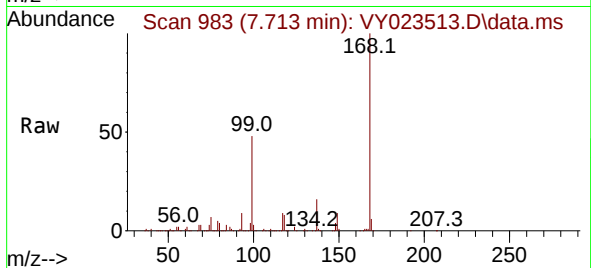
Tgt Ion: 43	Resp: 1752
Ion Ratio	Lower Upper
43 100	
72 0.0	27.4 41.2#



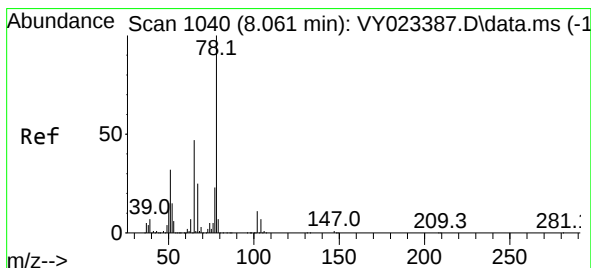
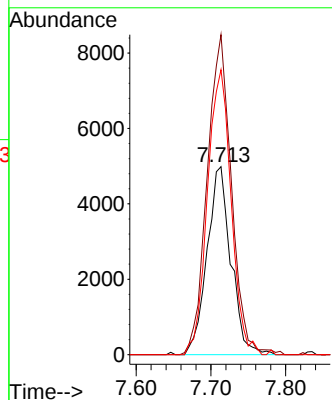
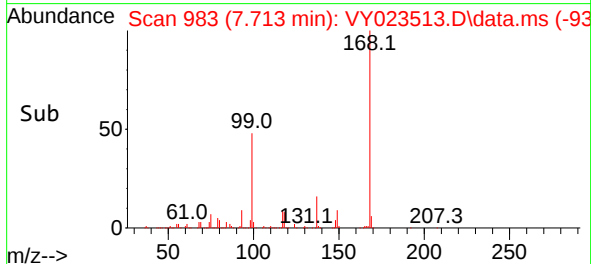


#31
Cyclohexane
Concen: 1.311 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

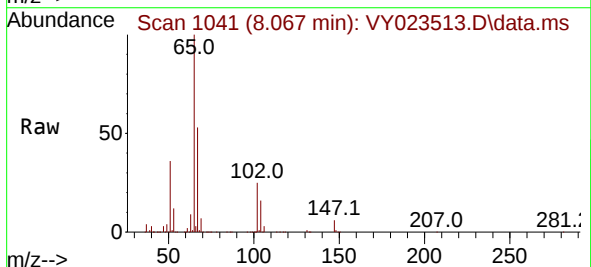
Instrument :
MSVOA_Y
ClientSampleId :



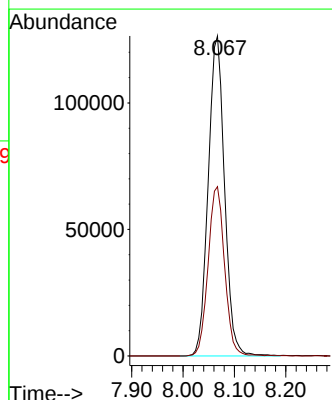
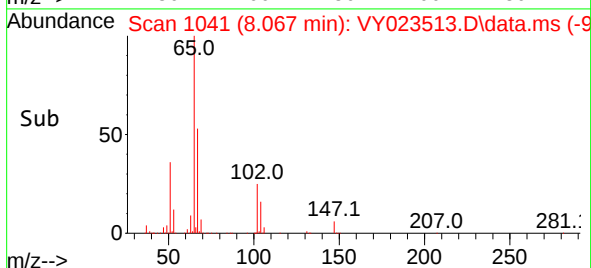
Tgt Ion: 56 Resp: 11082
Ion Ratio Lower Upper
56 100
69 170.2 30.0 45.0#
84 151.6 81.2 121.8#

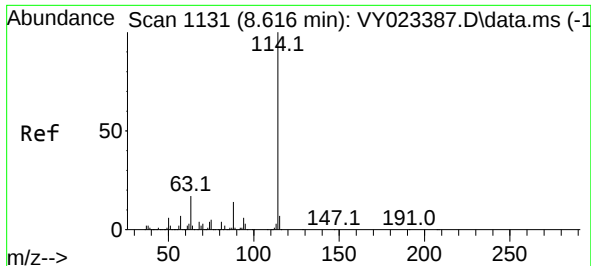


#33
1,2-Dichloroethane-d4
Concen: 54.917 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57



Tgt Ion: 65 Resp: 279090
Ion Ratio Lower Upper
65 100
67 53.4 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: VY023513.D

Acq: 20 Oct 2025 16:57

Instrument :

MSVOA_Y

ClientSampleId :

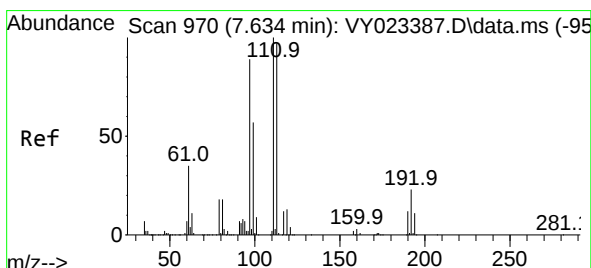
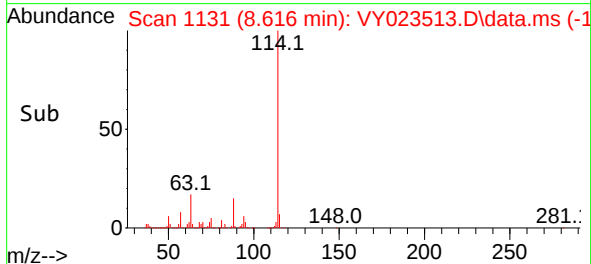
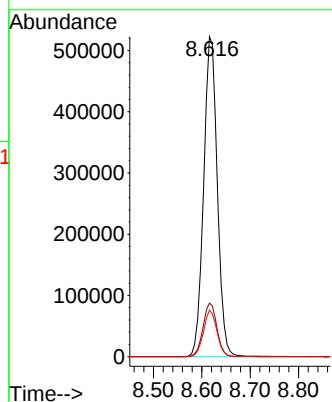
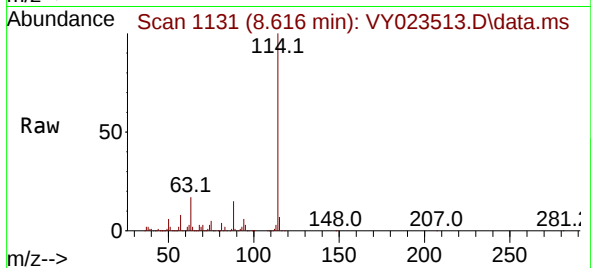
Tgt Ion:114 Resp: 1025761

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

88 14.5 0.0 28.4



#35

Dibromofluoromethane

Concen: 52.812 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023513.D

Acq: 20 Oct 2025 16:57

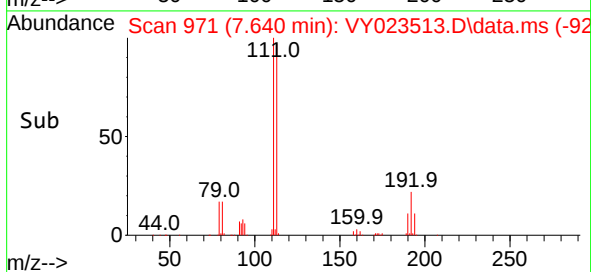
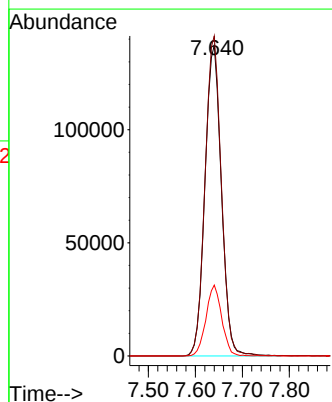
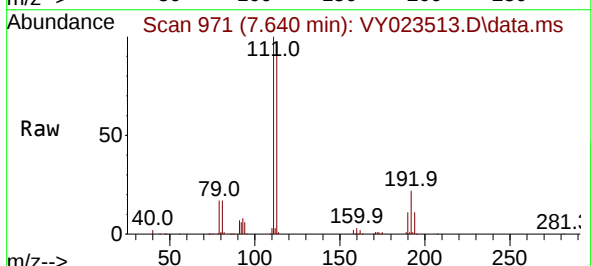
Tgt Ion:113 Resp: 332867

Ion Ratio Lower Upper

113 100

111 101.9 81.8 122.6

192 21.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.969 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023513.D

Acq: 20 Oct 2025 16:57

Instrument :

MSVOA_Y

ClientSampleId :

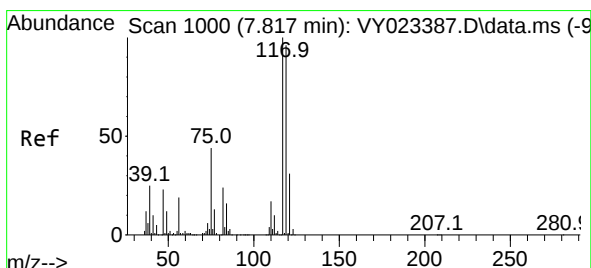
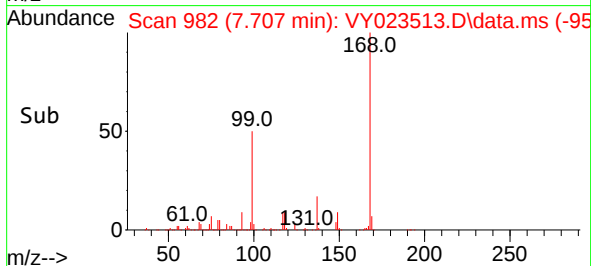
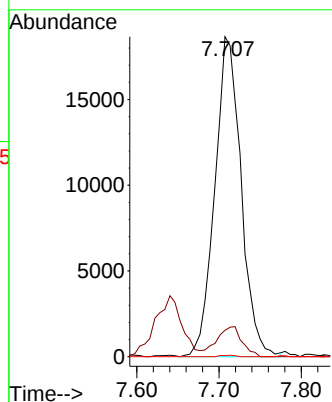
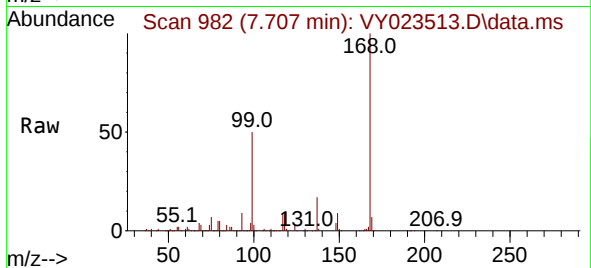
Tgt Ion: 75 Resp: 41466

Ion Ratio Lower Upper

75 100

110 9.1 19.9 59.7#

77 0.2 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.357 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023513.D

Acq: 20 Oct 2025 16:57

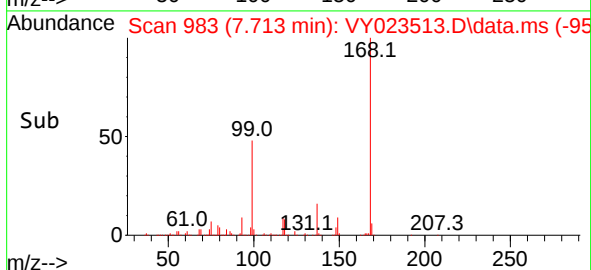
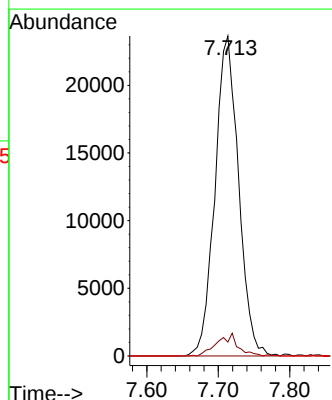
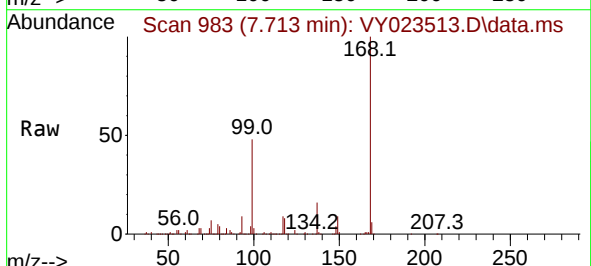
Tgt Ion: 117 Resp: 54205

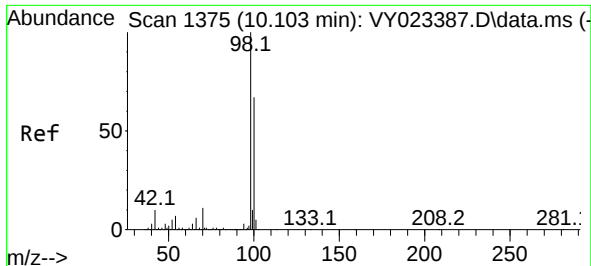
Ion Ratio Lower Upper

117 100

119 4.3 76.8 115.2#

121 0.0 24.5 36.7#

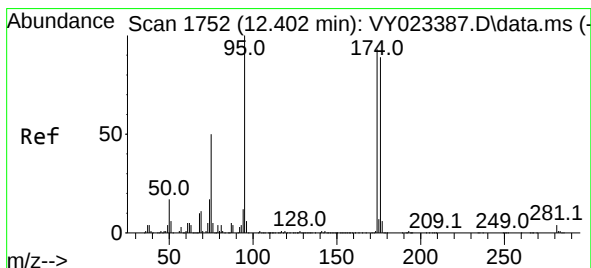
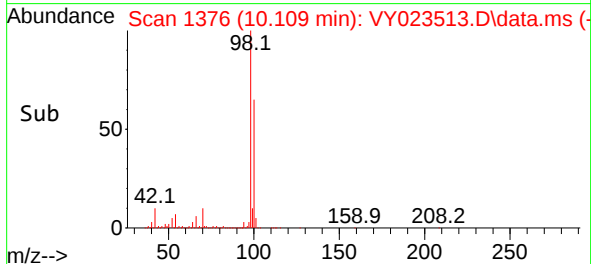
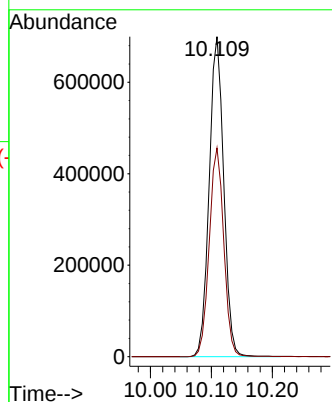
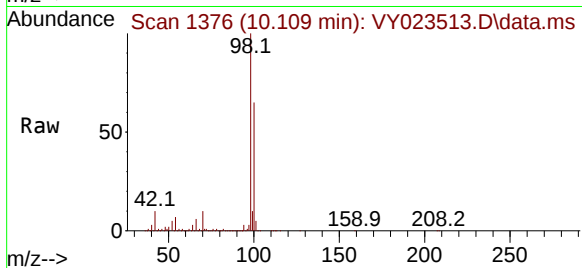




#50
Toluene-d8
Concen: 49.386 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

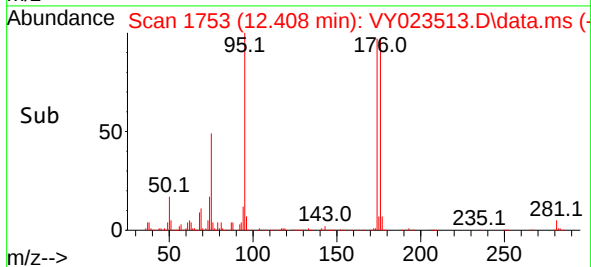
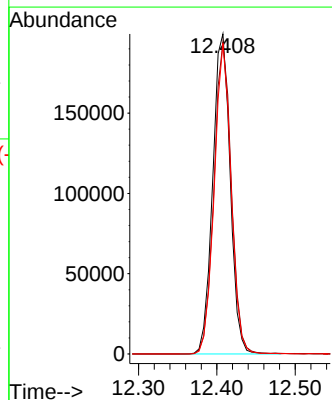
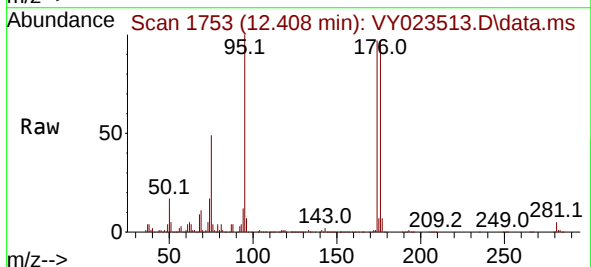
Instrument :
MSVOA_Y
ClientSampleId :

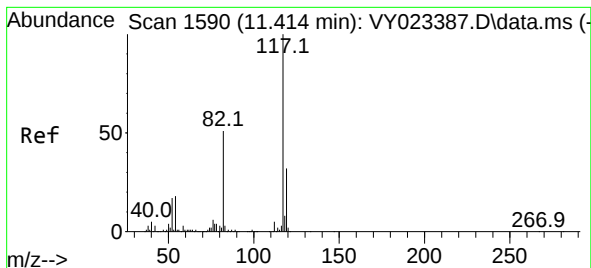
Tgt Ion: 98 Resp: 1159213
Ion Ratio Lower Upper
98 100
100 65.3 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 39.845 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

Tgt Ion: 95 Resp: 308773
Ion Ratio Lower Upper
95 100
174 97.0 0.0 192.8
176 93.5 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023513.D

Acq: 20 Oct 2025 16:57

Instrument :

MSVOA_Y

ClientSampleId :

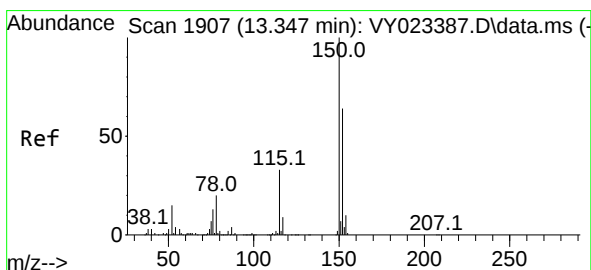
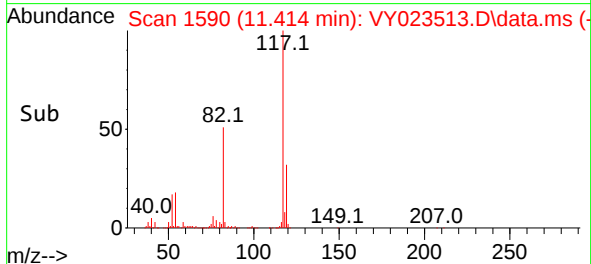
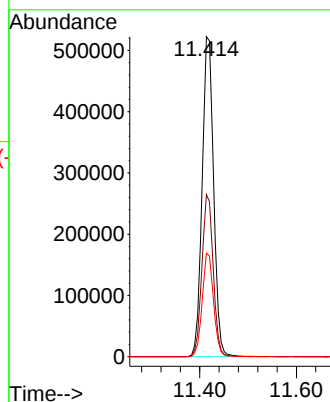
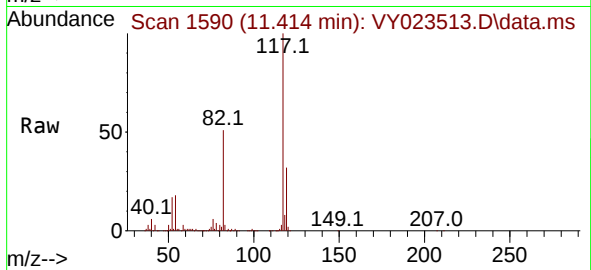
Tgt Ion:117 Resp: 861546

Ion Ratio Lower Upper

117 100

82 50.7 41.0 61.4

119 32.3 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: VY023513.D

Acq: 20 Oct 2025 16:57

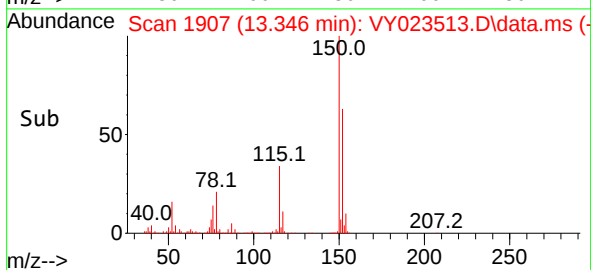
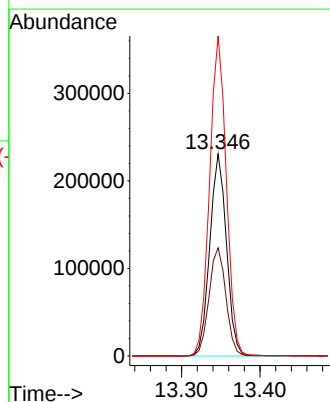
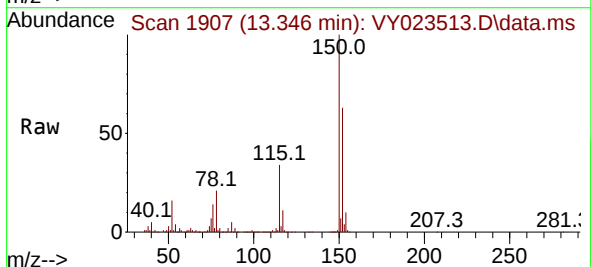
Tgt Ion:152 Resp: 341223

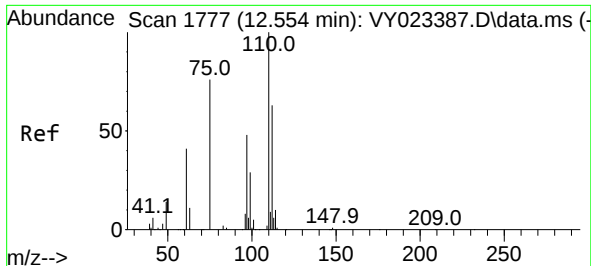
Ion Ratio Lower Upper

152 100

115 54.1 27.1 81.2

150 158.4 0.0 347.4

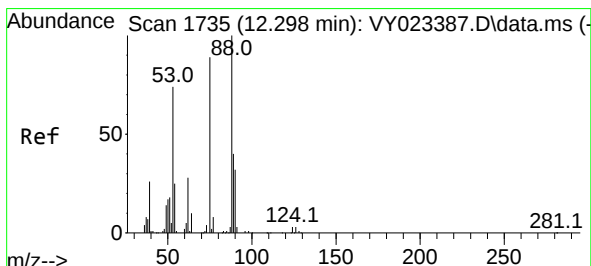
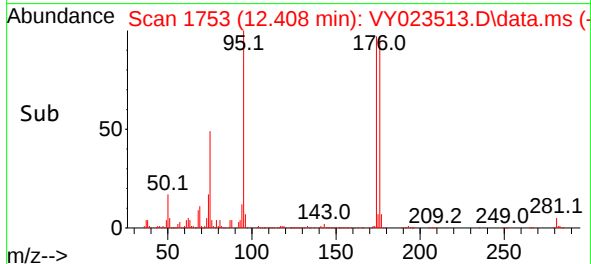
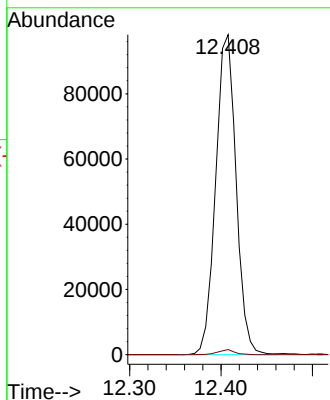
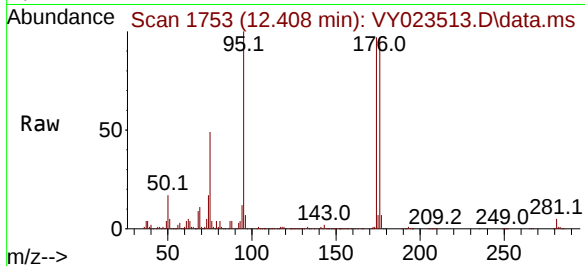




#76
1,2,3-Trichloropropane
Concen: 50.586 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

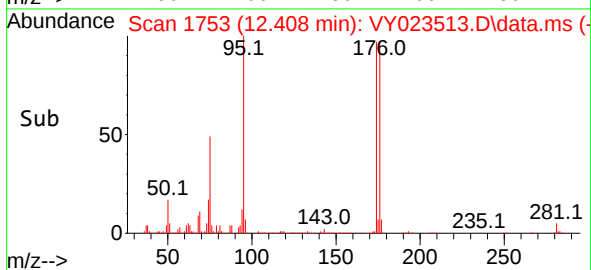
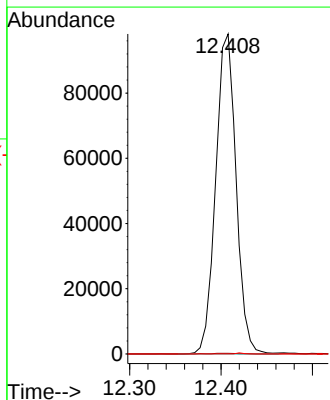
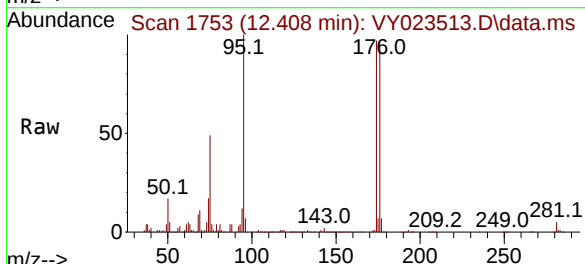
Instrument :
MSVOA_Y
ClientSampleId :

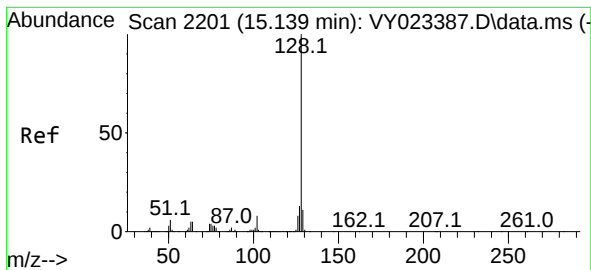
Tgt Ion: 75 Resp: 152289
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 124.046 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023513.D
Acq: 20 Oct 2025 16:57

Tgt Ion: 75 Resp: 152289
Ion Ratio Lower Upper
75 100
53 0.0 68.6 102.8#
89 0.1 39.0 58.4#





#95

Naphthalene

Concen: 5.018 ug/l

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

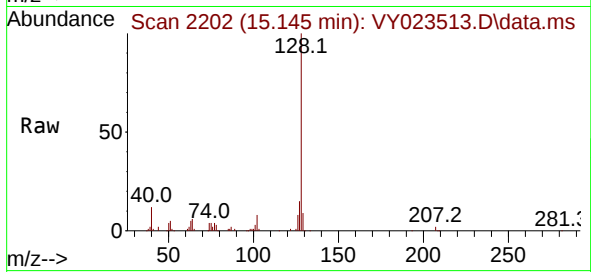
Lab File: VY023513.D

Acq: 20 Oct 2025 16:57

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 50841

Ion Ratio Lower Upper

128 100

127 14.2 10.4 15.6

129 11.2 8.9 13.3

