

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023509.D
 Acq On : 20 Oct 2025 15:23
 Operator : SY/MD
 Sample : Q3392-03
 Misc : 3.85g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 03:59:57 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)

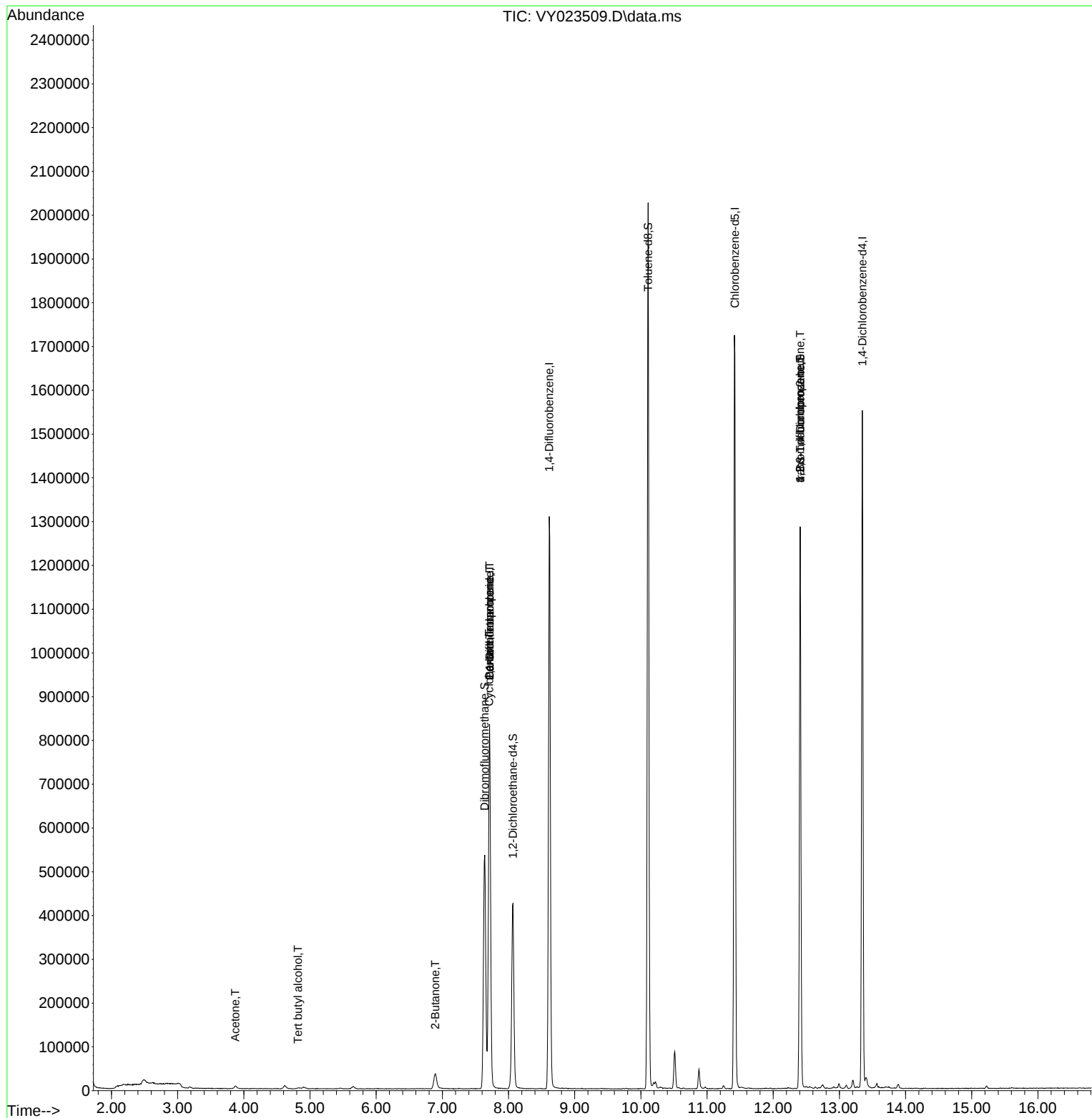
Internal Standards						
1) Pentafluorobenzene	7.713	168	684849	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1177232	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	995247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	411384	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	329934	57.612	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	115.220%
35) Dibromofluoromethane	7.640	113	387381	53.553	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.100%
50) Toluene-d8	10.109	98	1347428	50.019	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.040%
62) 4-Bromofluorobenzene	12.408	95	365399	41.085	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.180%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.817	59	1753	4.115	ug/l #	72
16) Acetone	3.873	43	10099	7.407	ug/l #	75
25) 2-Butanone	6.890	43	3911	2.350	ug/l #	78
31) Cyclohexane	7.707	56	11982	1.258	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	45547	4.756	ug/l #	48
38) Carbon Tetrachloride	7.713	117	63366	5.457	ug/l #	16
76) 1,2,3-Trichloropropane	12.408	75	178659	49.224	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	178659	120.707	ug/l #	15

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

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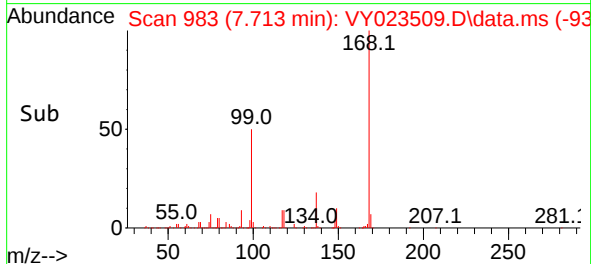
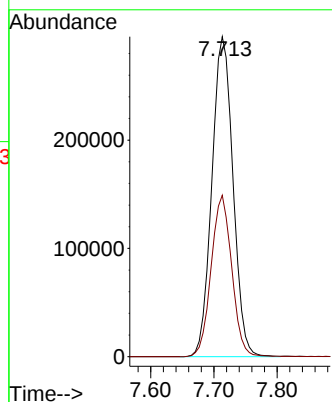
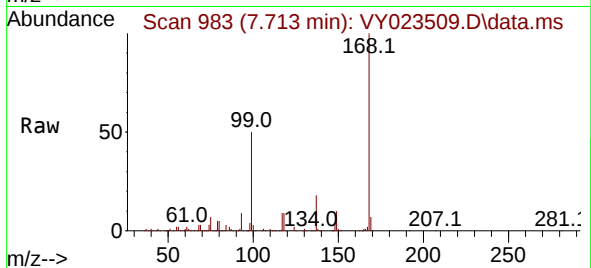




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

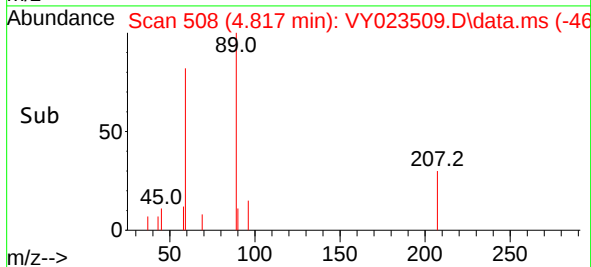
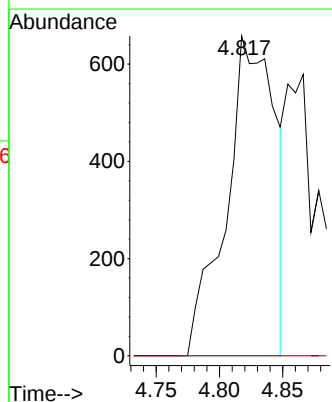
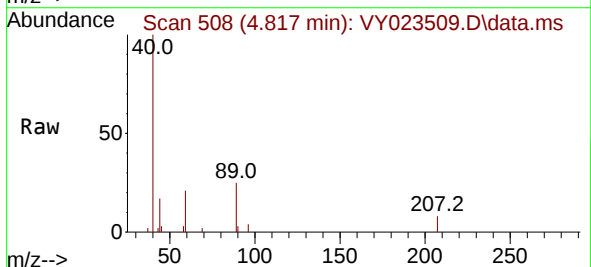
Instrument :
MSVOA_Y
ClientSampleId :

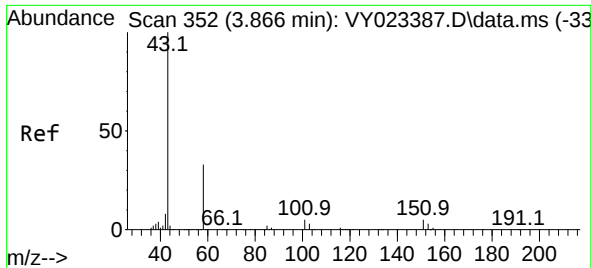
Tgt Ion:168 Resp: 684849
Ion Ratio Lower Upper
168 100
99 50.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 4.115 ug/l
RT: 4.817 min Scan# 508
Delta R.T. -0.043 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 59 Resp: 1753
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

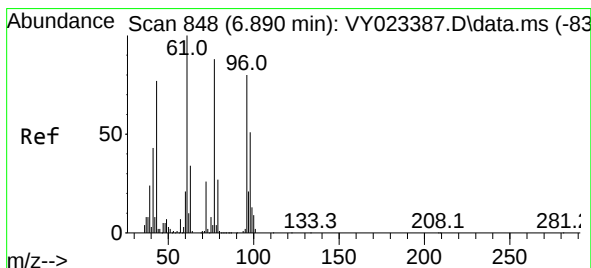
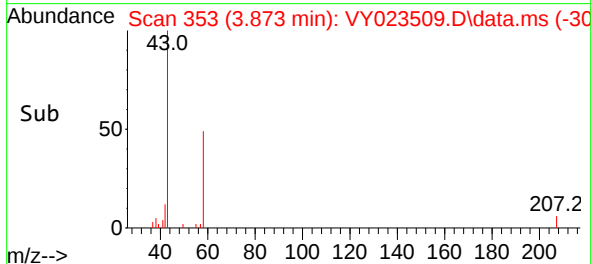
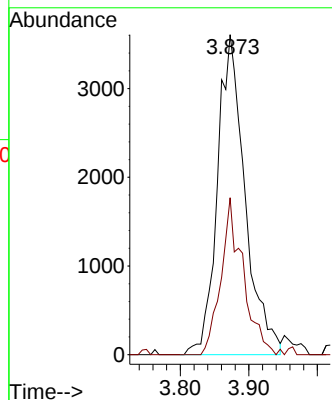
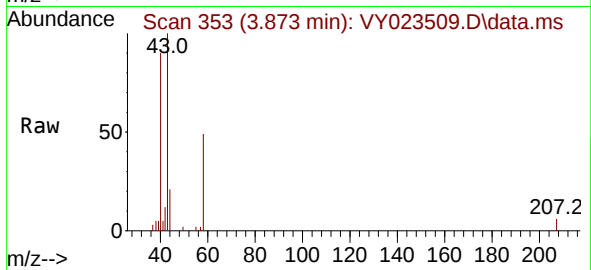




#16
Acetone
Concen: 7.407 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

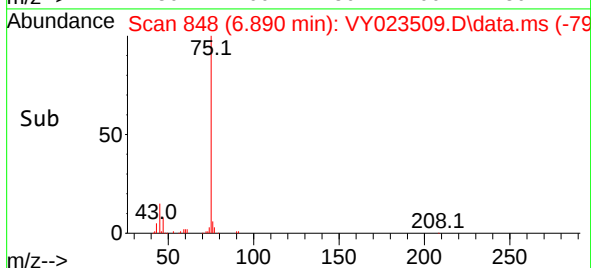
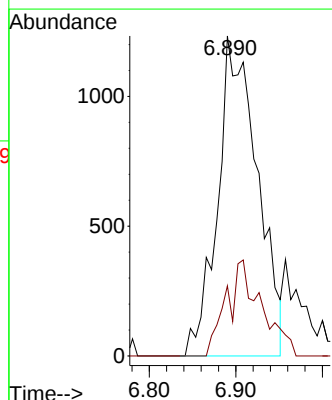
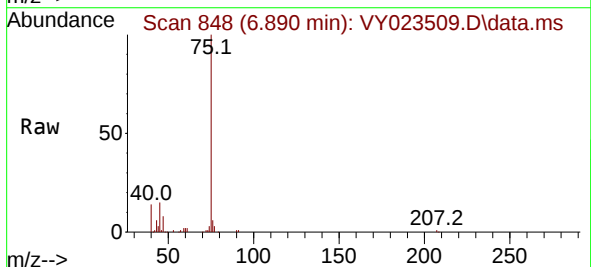
Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 43 Resp: 10099
Ion Ratio Lower Upper
43 100
58 49.1 27.7 41.5#



#25
2-Butanone
Concen: 2.350 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 43 Resp: 3911
Ion Ratio Lower Upper
43 100
72 21.9 27.4 41.2#

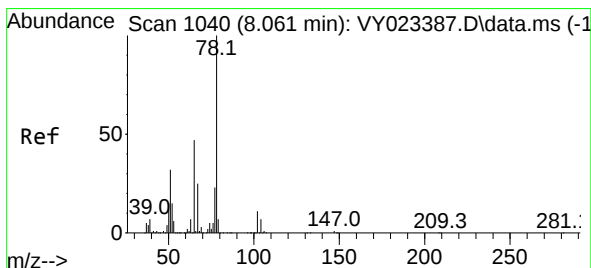
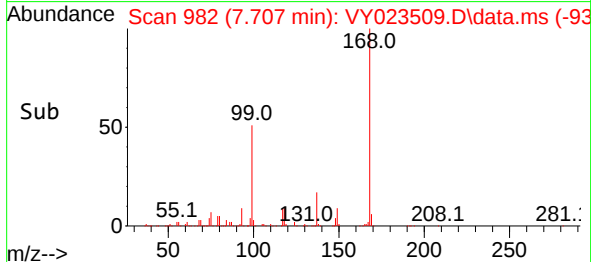
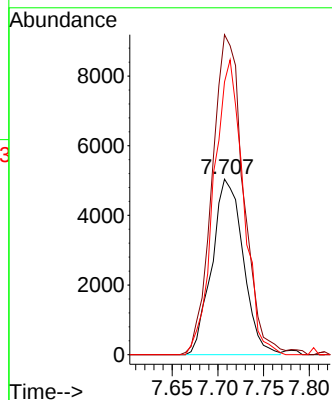
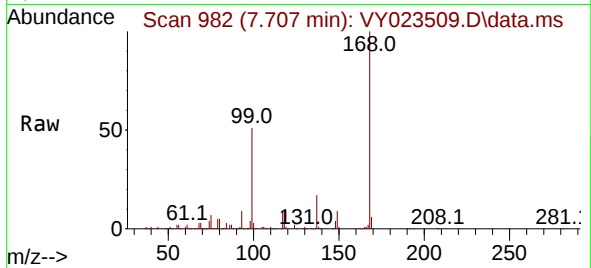




#31
Cyclohexane
Concen: 1.258 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

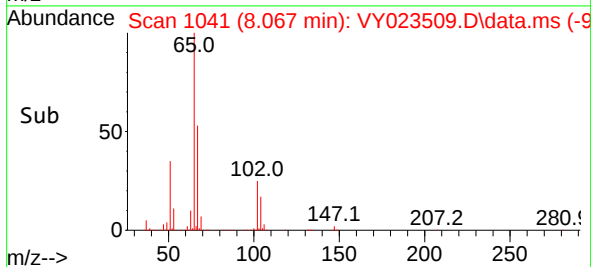
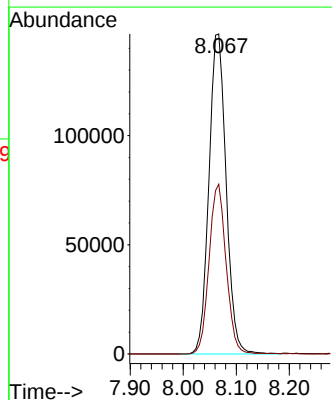
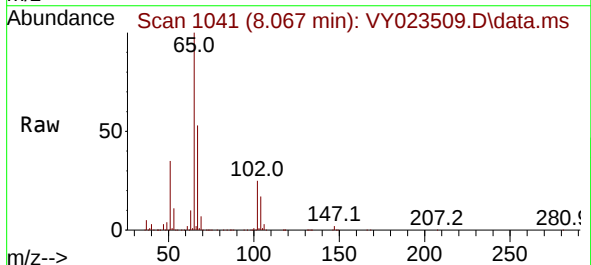
Instrument :
MSVOA_Y
ClientSampleId :

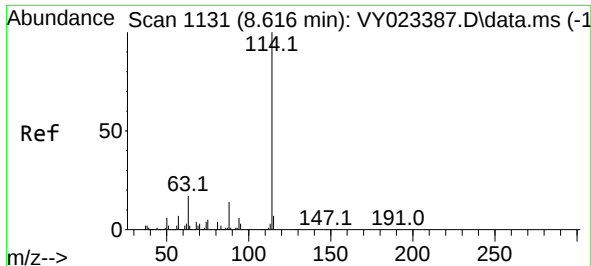
Tgt Ion: 56 Resp: 11982
Ion Ratio Lower Upper
56 100
69 182.4 30.0 45.0#
84 155.4 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 57.612 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 65 Resp: 329934
Ion Ratio Lower Upper
65 100
67 52.6 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: VY023509.D

Acq: 20 Oct 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

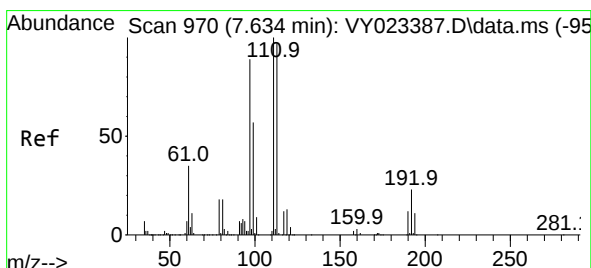
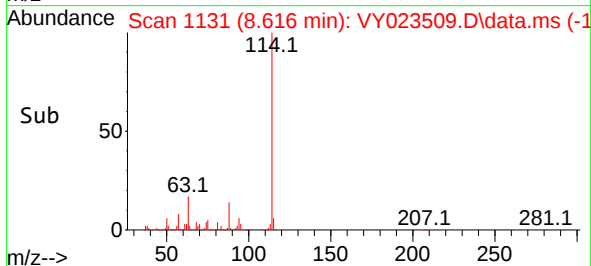
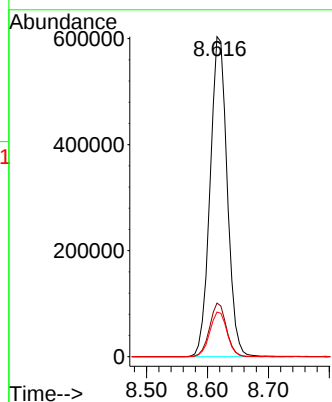
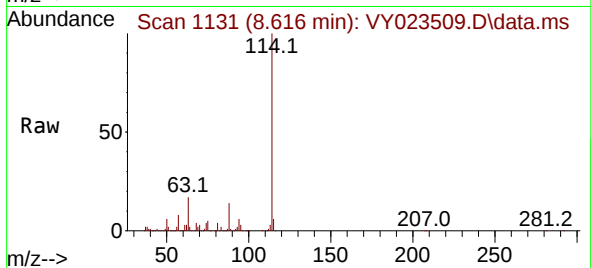
Tgt Ion:114 Resp: 1177232

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

88 14.0 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.553 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023509.D

Acq: 20 Oct 2025 15:23

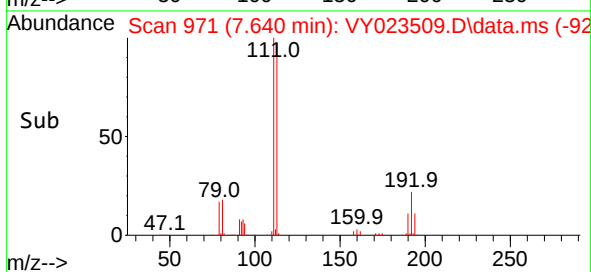
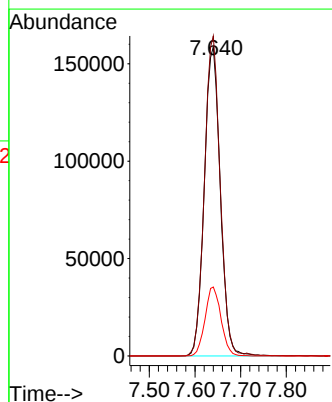
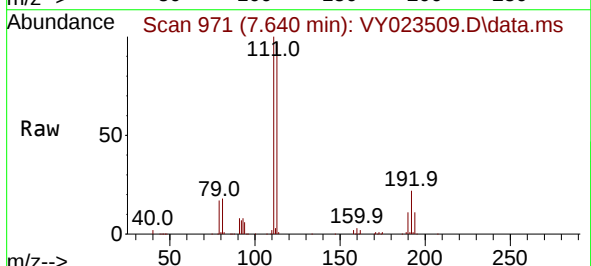
Tgt Ion:113 Resp: 387381

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.6

192 22.2 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.756 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY023509.D

Acq: 20 Oct 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

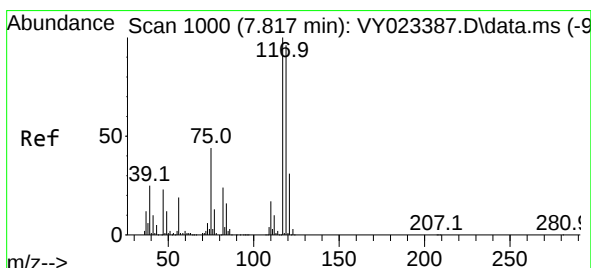
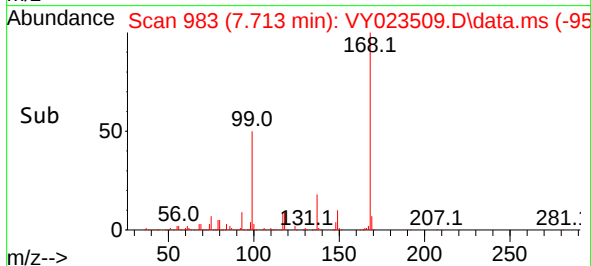
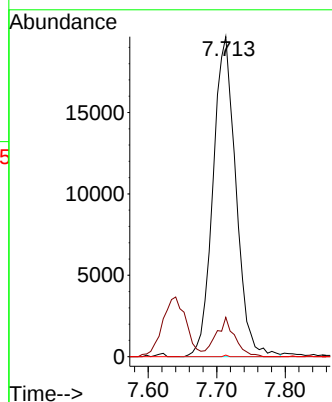
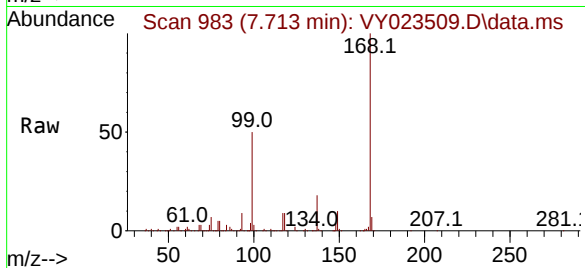
Tgt Ion: 75 Resp: 45547

Ion Ratio Lower Upper

75 100

110 10.1 19.9 59.7#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.457 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023509.D

Acq: 20 Oct 2025 15:23

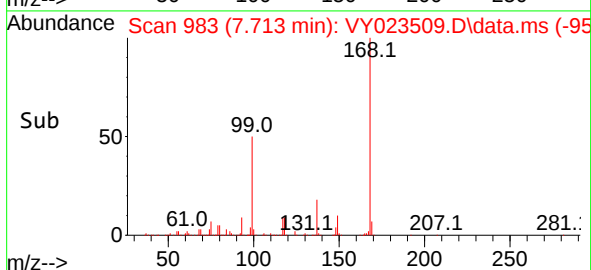
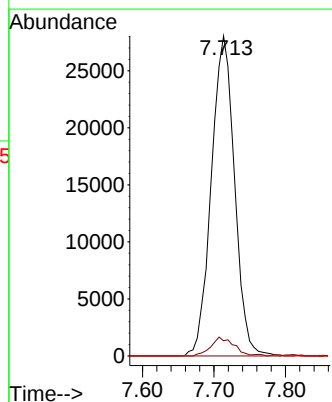
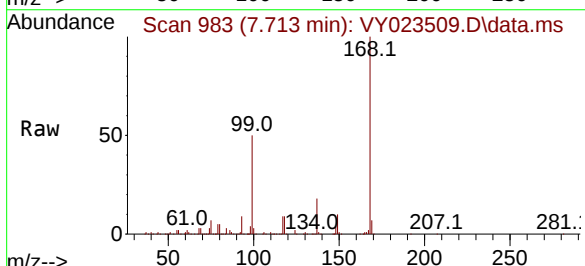
Tgt Ion: 117 Resp: 63366

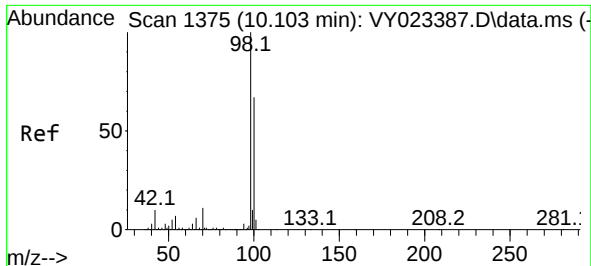
Ion Ratio Lower Upper

117 100

119 4.8 76.8 115.2#

121 0.0 24.5 36.7#

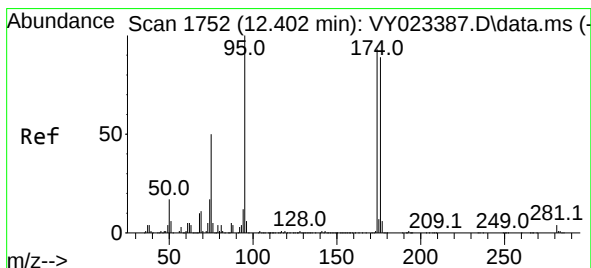
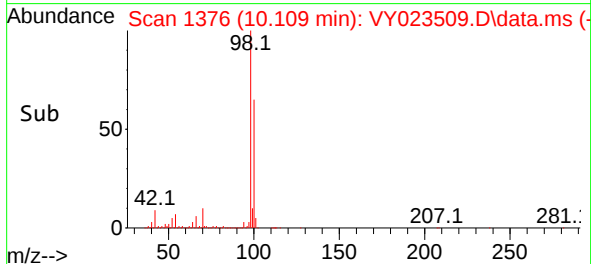
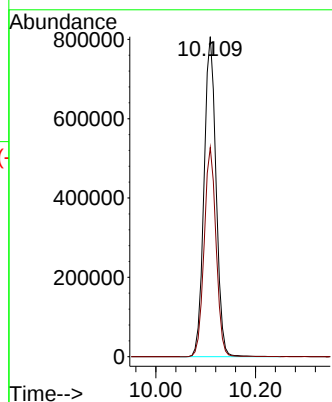
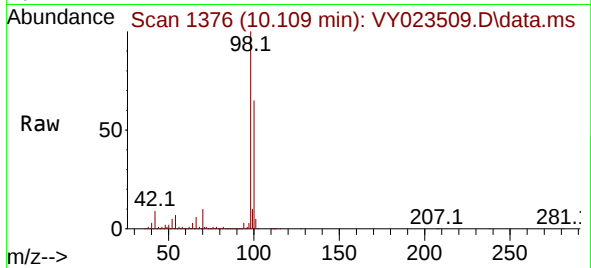




#50
Toluene-d8
Concen: 50.019 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

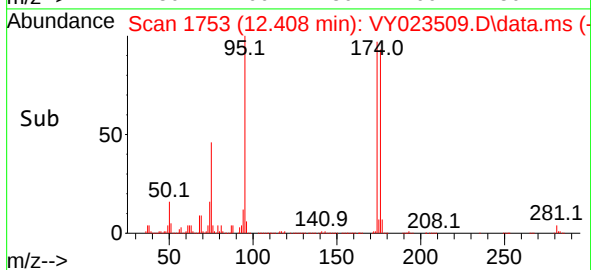
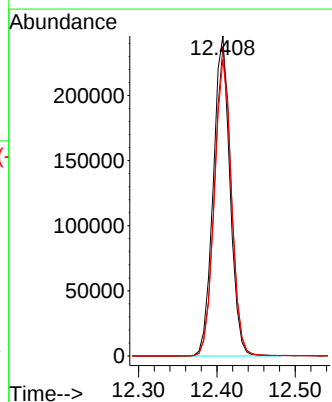
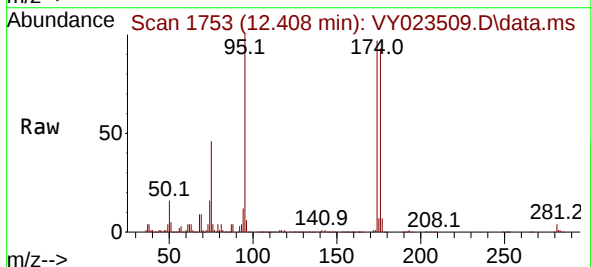
Instrument :
MSVOA_Y
ClientSampleId :

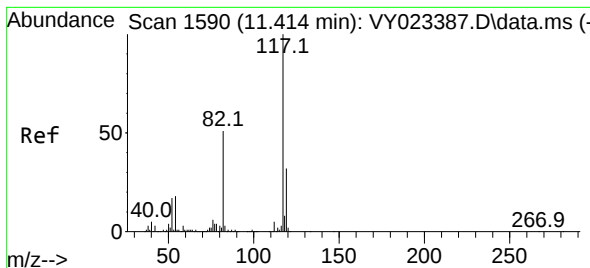
Tgt Ion: 98 Resp: 1347428
Ion Ratio Lower Upper
98 100
100 64.9 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 41.085 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 95 Resp: 365399
Ion Ratio Lower Upper
95 100
174 97.0 0.0 192.8
176 93.9 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023509.D

Acq: 20 Oct 2025 15:23

Instrument :

MSVOA_Y

ClientSampleId :

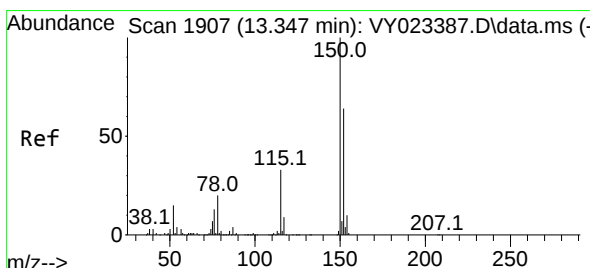
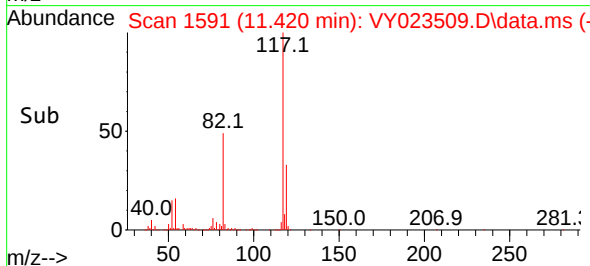
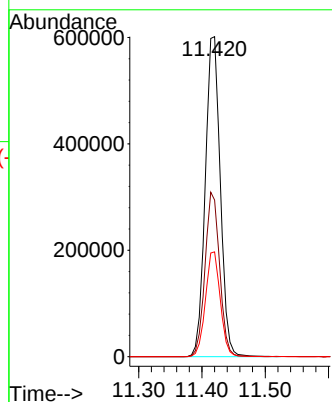
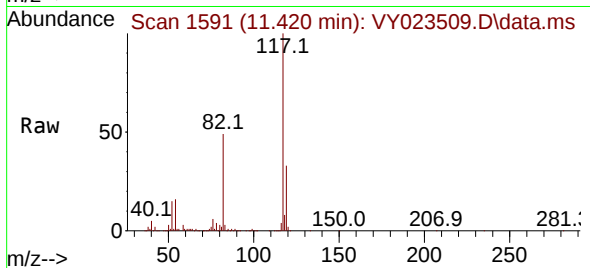
Tgt Ion:117 Resp: 995247

Ion Ratio Lower Upper

117 100

82 48.9 41.0 61.4

119 32.8 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: VY023509.D

Acq: 20 Oct 2025 15:23

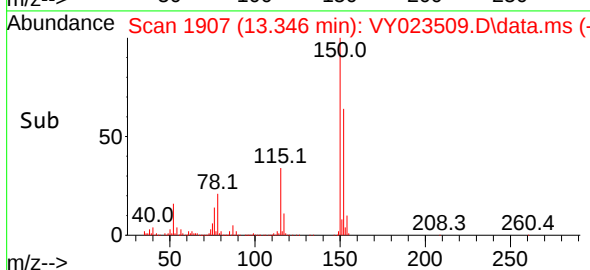
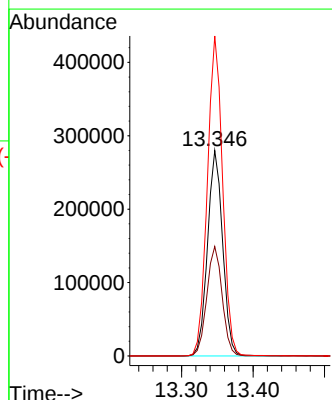
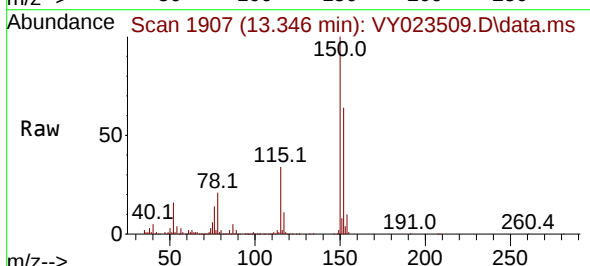
Tgt Ion:152 Resp: 411384

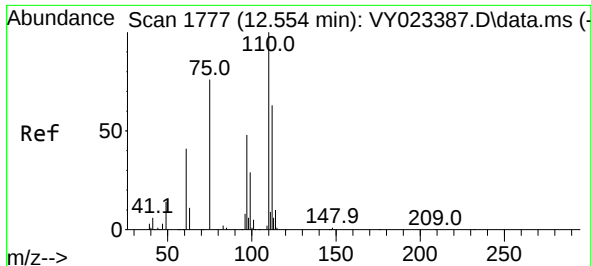
Ion Ratio Lower Upper

152 100

115 54.3 27.1 81.2

150 156.8 0.0 347.4

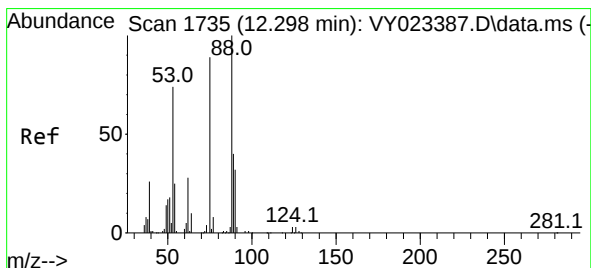
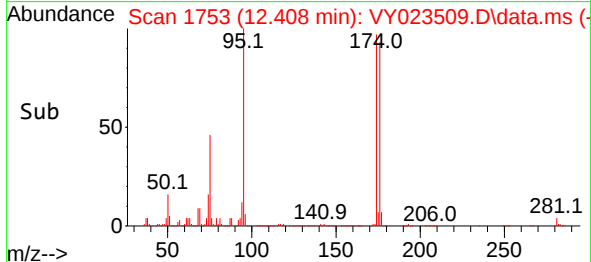
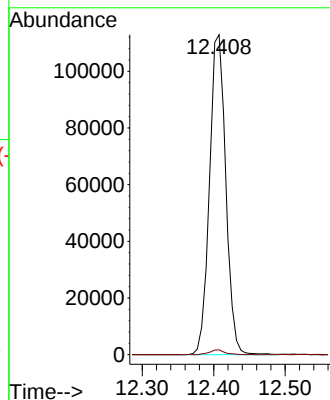
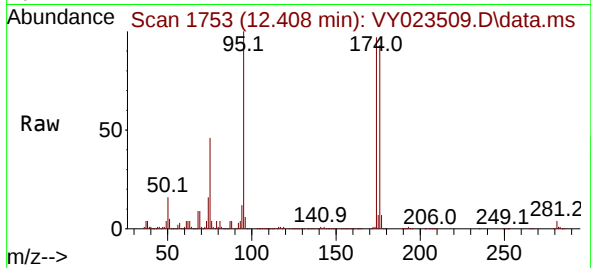




#76
1,2,3-Trichloropropane
Concen: 49.224 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 178659
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 120.707 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023509.D
Acq: 20 Oct 2025 15:23

Tgt Ion: 75 Resp: 178659
Ion Ratio Lower Upper
75 100
53 0.3 68.6 102.8#
89 0.0 39.0 58.4#

