

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023508.D
 Acq On : 20 Oct 2025 14:59
 Operator : SY/MD
 Sample : Q3382-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 03:59:36 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)

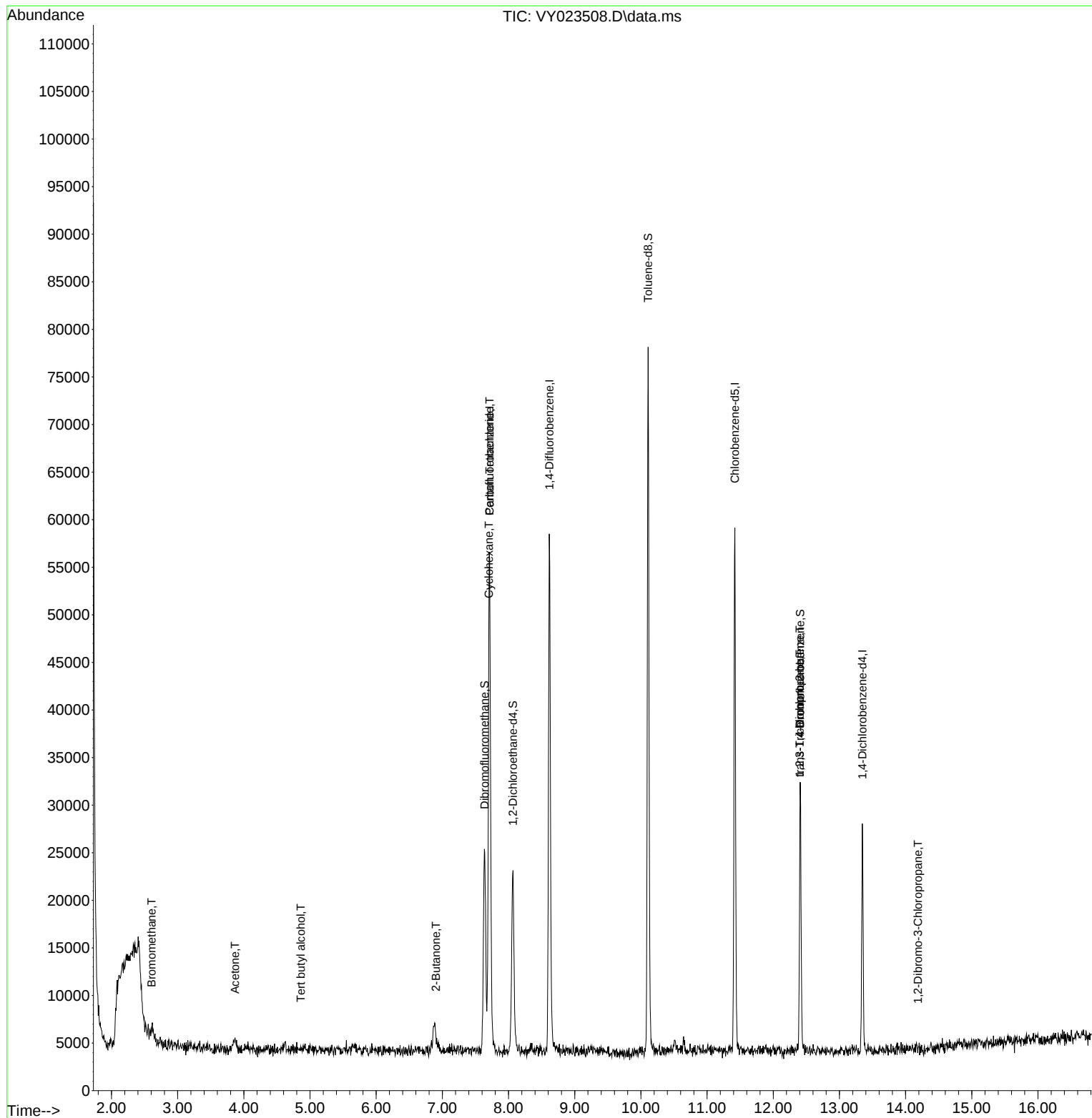
Internal Standards						
1) Pentafluorobenzene	7.713	168	44075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	50085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	32189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	6621	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	15939	43.246	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.500%
35) Dibromofluoromethane	7.640	113	16267	52.858	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.720%
50) Toluene-d8	10.109	98	50993	44.493	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.980%
62) 4-Bromofluorobenzene	12.408	95	8660	22.887	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	45.780%
Target Compounds						
					Qvalue	
5) Bromomethane	2.605	94	527	1.116	ug/l #	77
11) Tert butyl alcohol	4.860	59	64	2.334	ug/l #	72
16) Acetone	3.866	43	2370	27.011	ug/l	93
25) 2-Butanone	6.903	43	572	5.340	ug/l #	40
31) Cyclohexane	7.701	56	939	1.532	ug/l #	3
38) Carbon Tetrachloride	7.713	117	3952	8.000	ug/l #	21
76) 1,2,3-Trichloropropane	12.402	75	4152	71.078	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	4152	174.296	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.188	75	20	1.708	ug/l #	1

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

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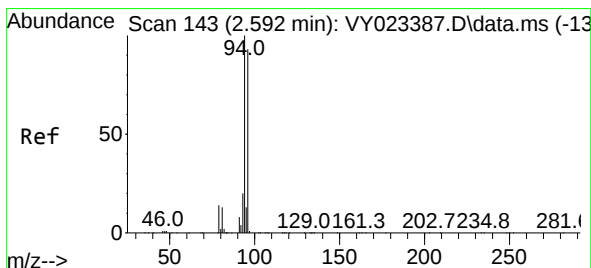
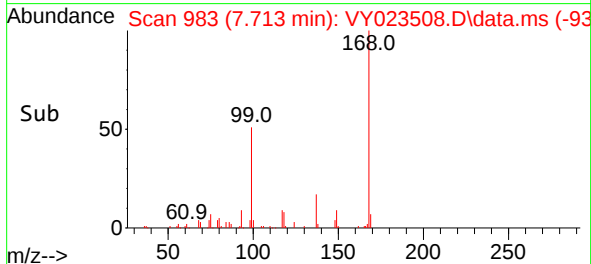
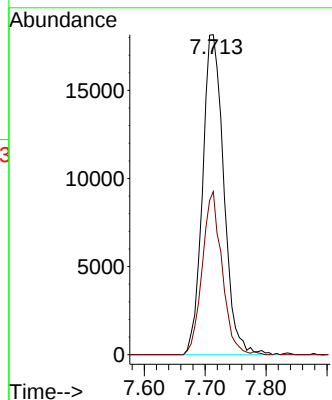
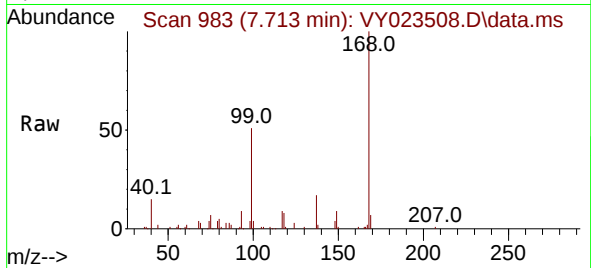




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

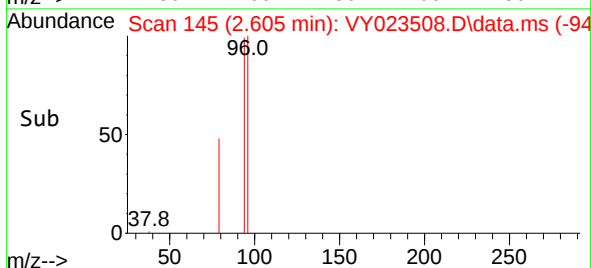
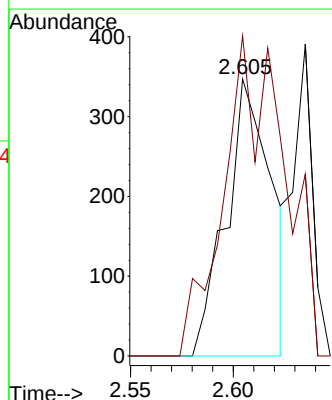
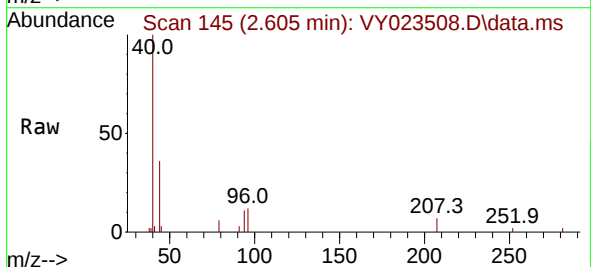
Instrument :
MSVOA_Y
ClientSampleId :

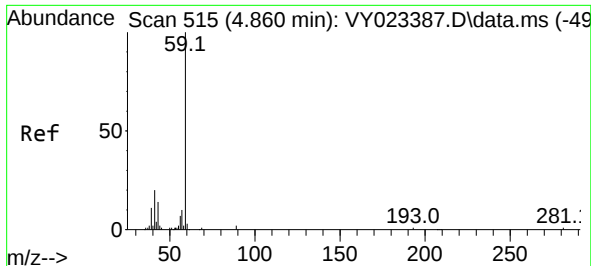
Tgt Ion:168 Resp: 44075
Ion Ratio Lower Upper
168 100
99 50.9 39.7 59.5



#5
Bromomethane
Concen: 1.116 ug/l
RT: 2.605 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

Tgt Ion: 94 Resp: 527
Ion Ratio Lower Upper
94 100
96 115.6 74.5 111.7#

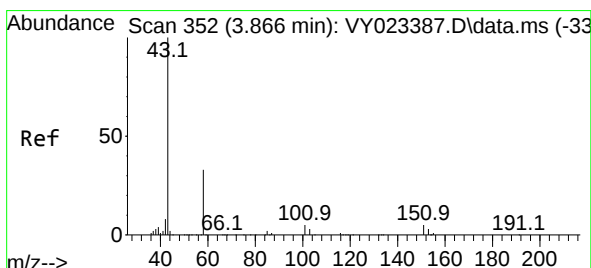
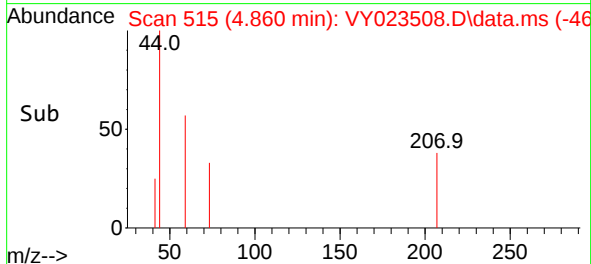
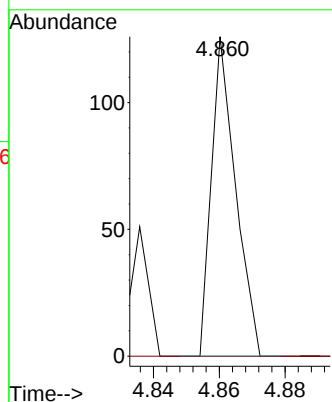
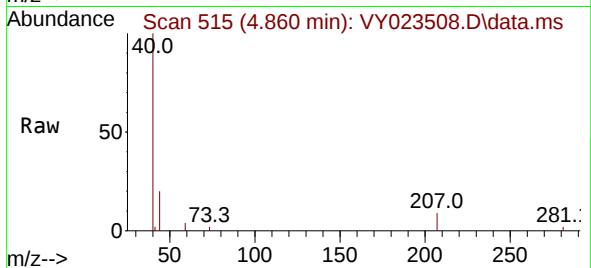




#11
Tert butyl alcohol
Concen: 2.334 ug/l
RT: 4.860 min Scan# 515
Delta R.T. 0.000 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

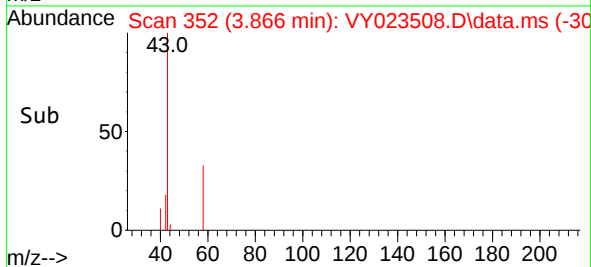
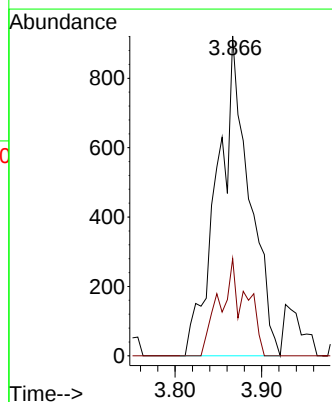
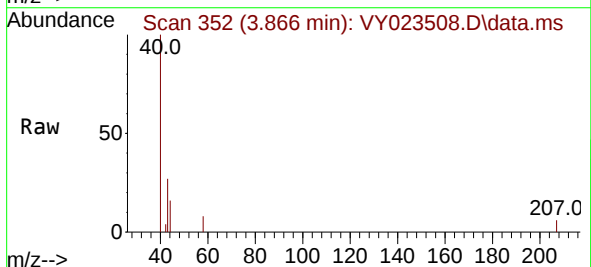
Instrument :
MSVOA_Y
ClientSampleId :

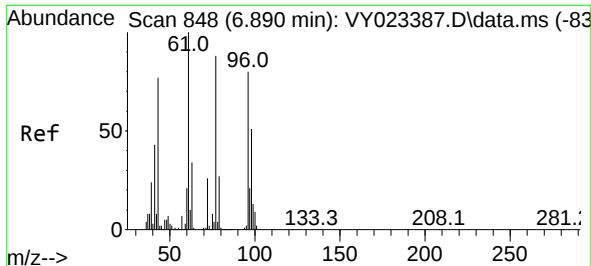
Tgt Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 27.011 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

Tgt Ion: 43 Resp: 2370
Ion Ratio Lower Upper
43 100
58 30.4 27.7 41.5





#25

2-Butanone

Concen: 5.340 ug/l

RT: 6.903 min Scan# 848

Delta R.T. 0.012 min

Lab File: VY023508.D

Acq: 20 Oct 2025 14:59

Instrument :

MSVOA_Y

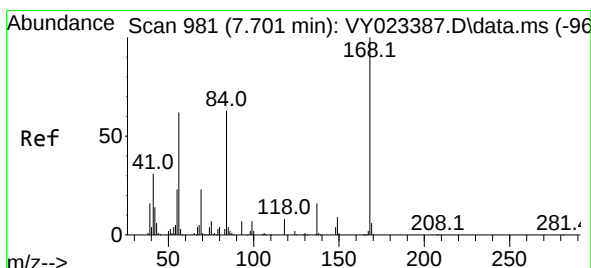
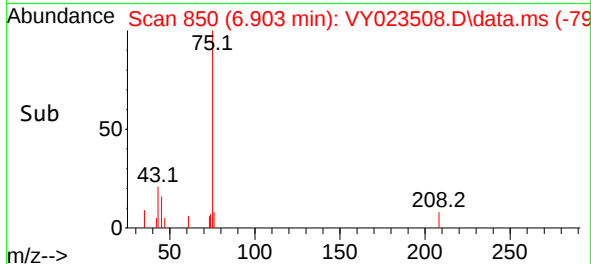
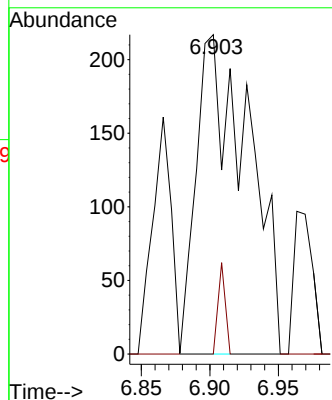
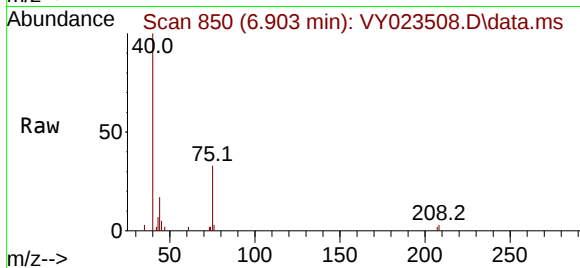
ClientSampleId :

Tgt Ion: 43 Resp: 572

Ion Ratio Lower Upper

43 100

72 0.0 27.4 41.2#



#31

Cyclohexane

Concen: 1.532 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023508.D

Acq: 20 Oct 2025 14:59

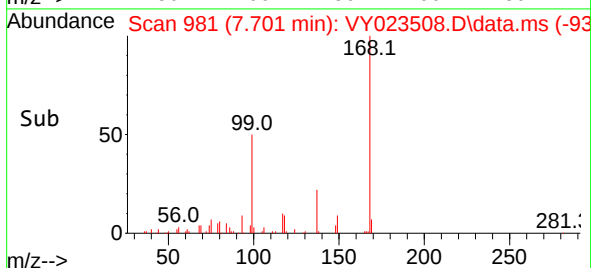
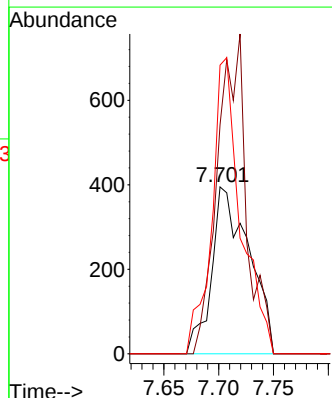
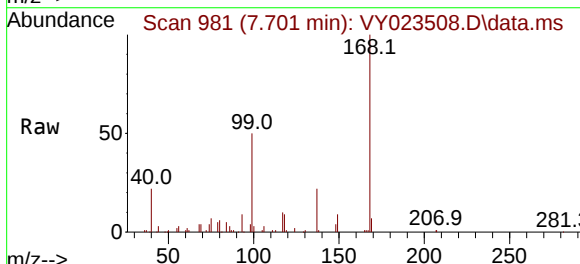
Tgt Ion: 56 Resp: 939

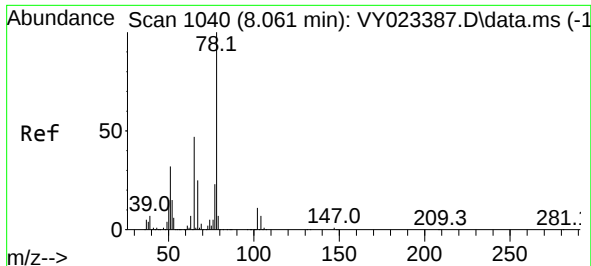
Ion Ratio Lower Upper

56 100

69 137.2 30.0 45.0#

84 172.9 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 43.246 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023508.D

Acq: 20 Oct 2025 14:59

Instrument :

MSVOA_Y

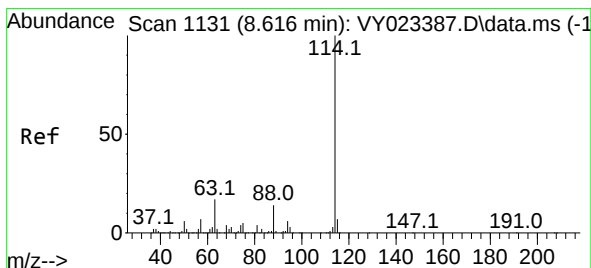
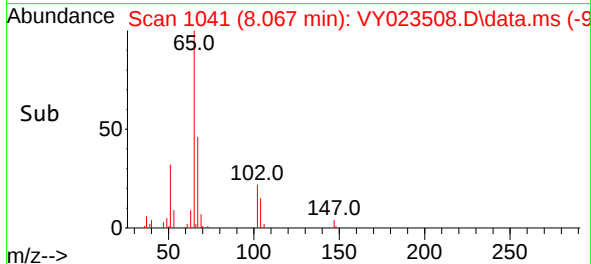
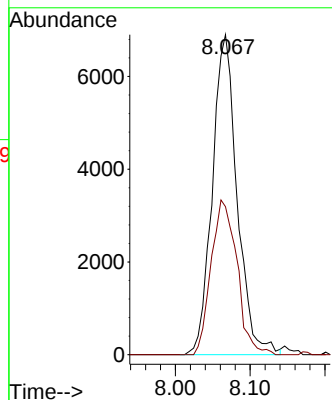
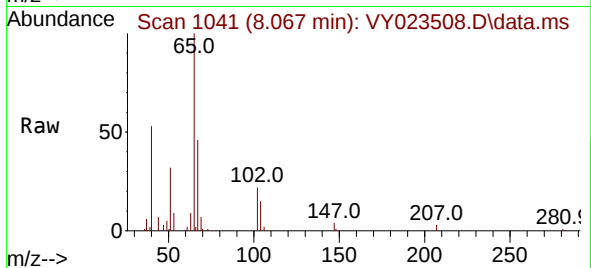
ClientSampleId :

Tgt Ion: 65 Resp: 15939

Ion Ratio Lower Upper

65 100

67 50.4 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: VY023508.D

Acq: 20 Oct 2025 14:59

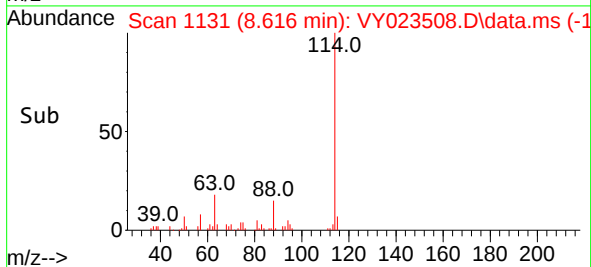
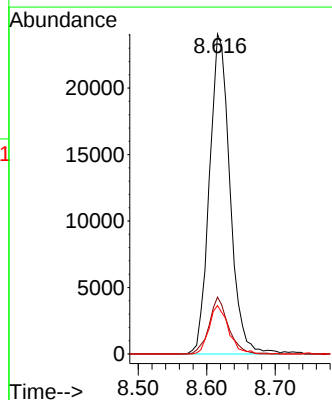
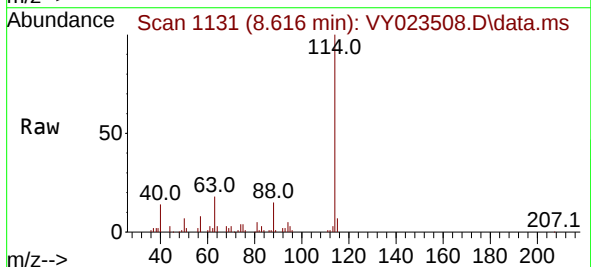
Tgt Ion: 114 Resp: 50085

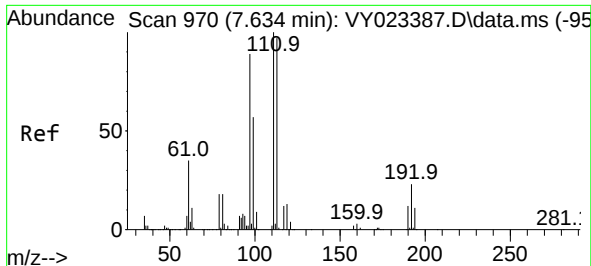
Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.2

88 15.1 0.0 28.4





#35

Dibromofluoromethane

Concen: 52.858 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

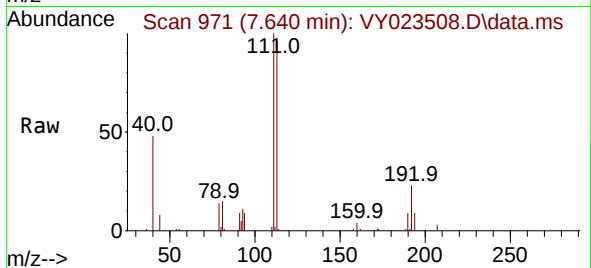
Lab File: VY023508.D

Acq: 20 Oct 2025 14:59

Instrument :

MSVOA_Y

ClientSampleId :



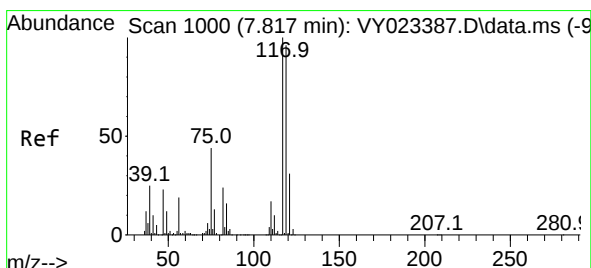
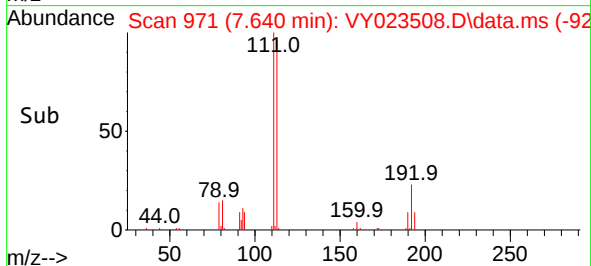
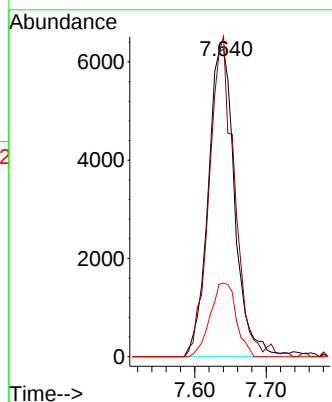
Tgt Ion:113 Resp: 16267

Ion Ratio Lower Upper

113 100

111 96.9 81.8 122.6

192 23.2 18.0 27.0



#38

Carbon Tetrachloride

Concen: 8.000 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023508.D

Acq: 20 Oct 2025 14:59

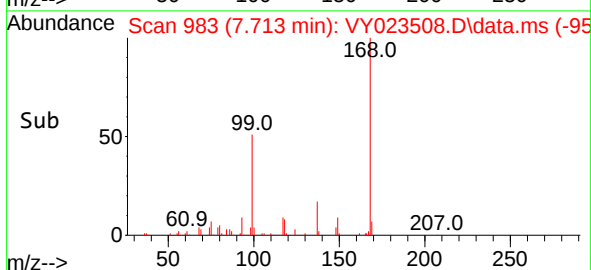
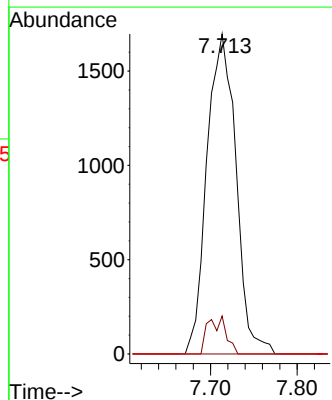
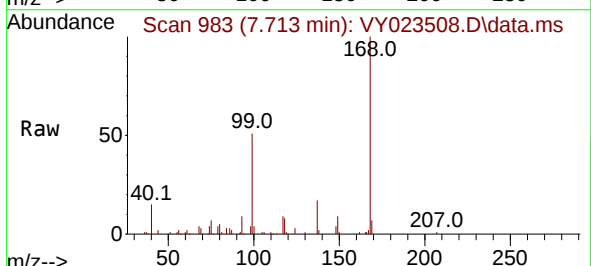
Tgt Ion:117 Resp: 3952

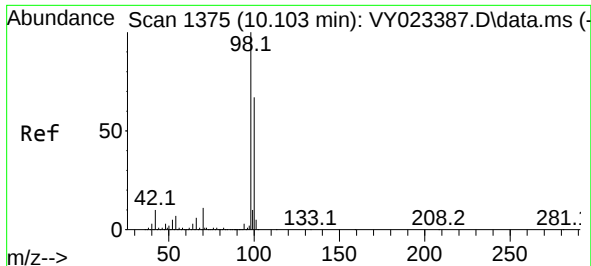
Ion Ratio Lower Upper

117 100

119 11.8 76.8 115.2#

121 0.0 24.5 36.7#

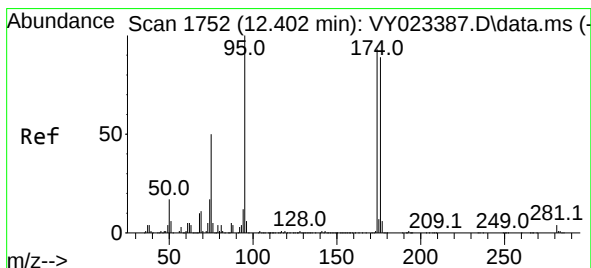
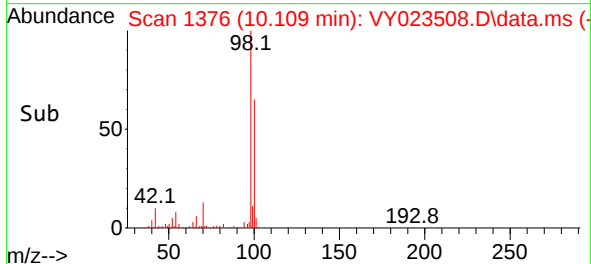
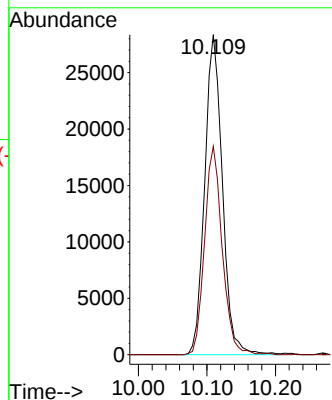
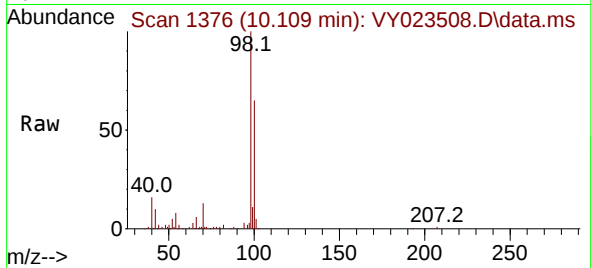




#50
Toluene-d8
Concen: 44.493 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

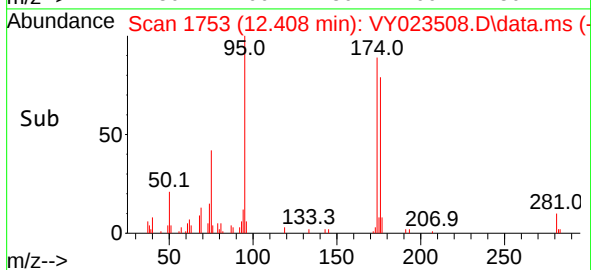
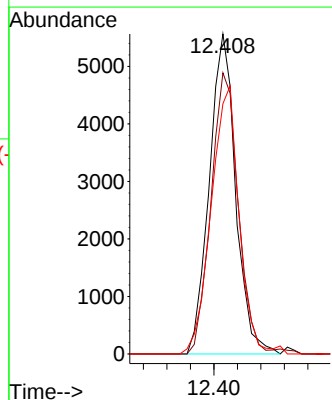
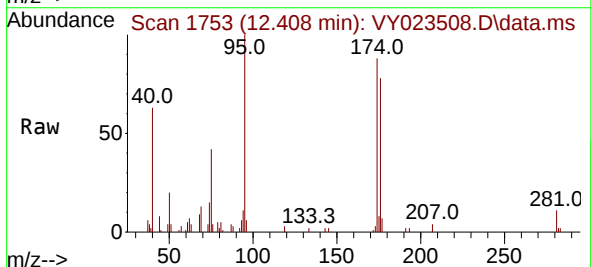
Instrument :
MSVOA_Y
ClientSampleId :

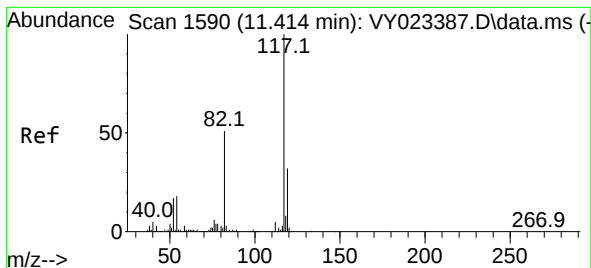
Tgt Ion: 98 Resp: 50993
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 22.887 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

Tgt Ion: 95 Resp: 8660
Ion Ratio Lower Upper
95 100
174 90.6 0.0 192.8
176 88.8 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: VY023508.D

Acq: 20 Oct 2025 14:59

Instrument :

MSVOA_Y

ClientSampleId :

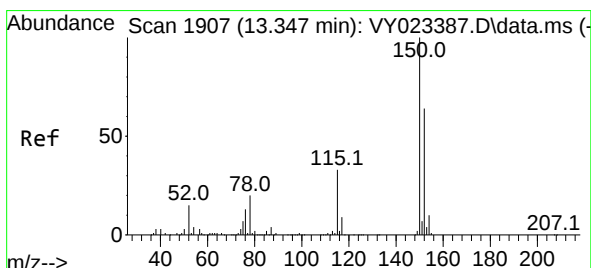
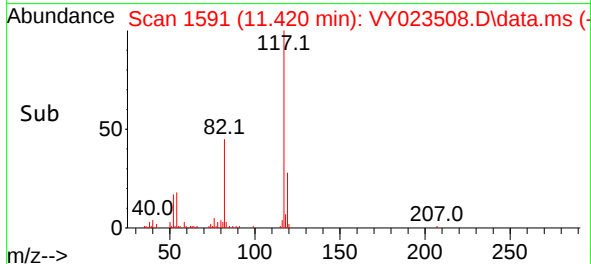
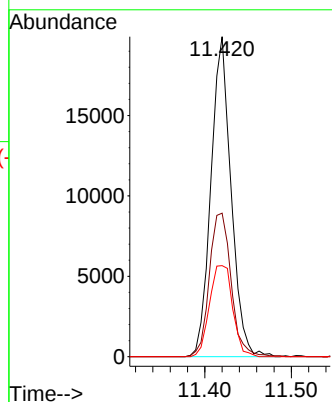
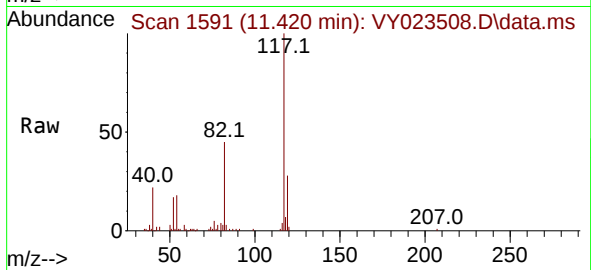
Tgt Ion:117 Resp: 32189

Ion Ratio Lower Upper

117 100

82 44.9 41.0 61.4

119 28.4 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: VY023508.D

Acq: 20 Oct 2025 14:59

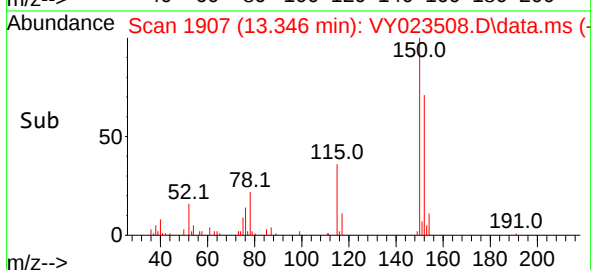
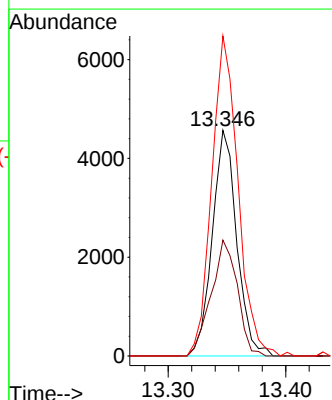
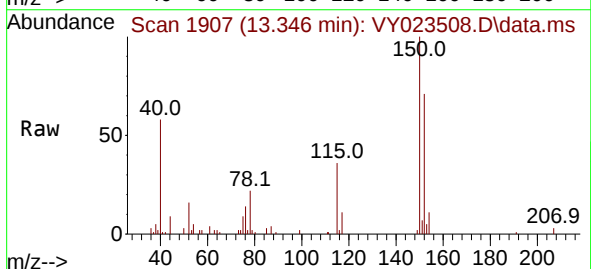
Tgt Ion:152 Resp: 6621

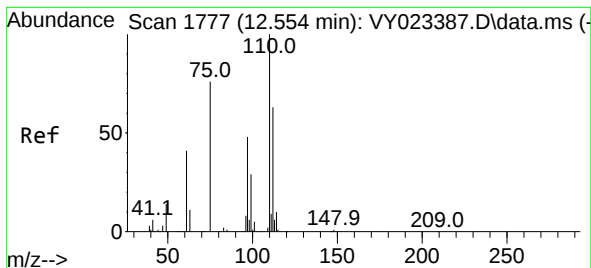
Ion Ratio Lower Upper

152 100

115 54.9 27.1 81.2

150 152.2 0.0 347.4

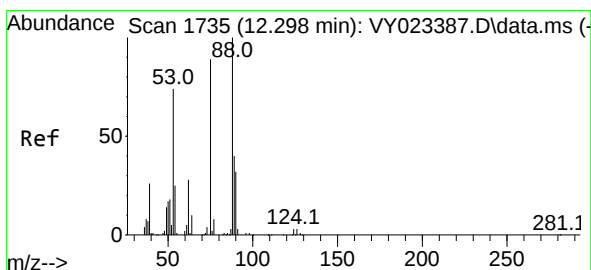
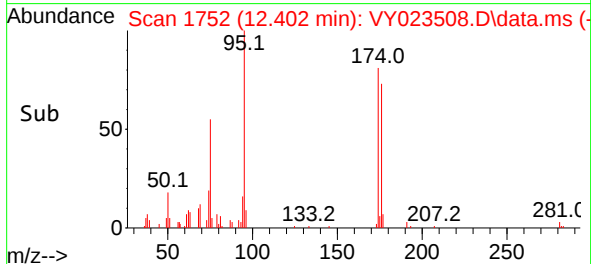
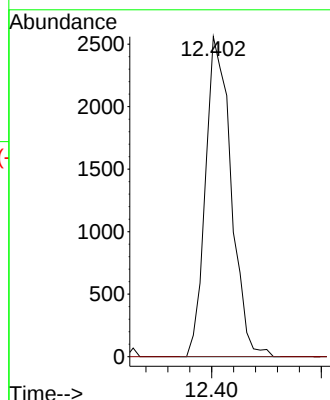
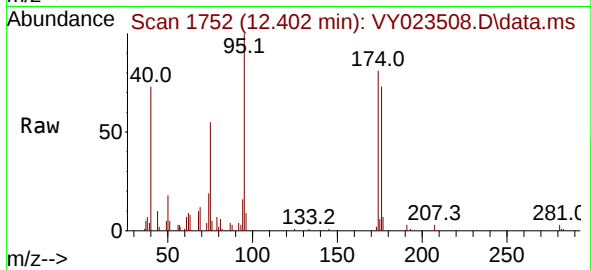




#76
1,2,3-Trichloropropane
Concen: 71.078 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

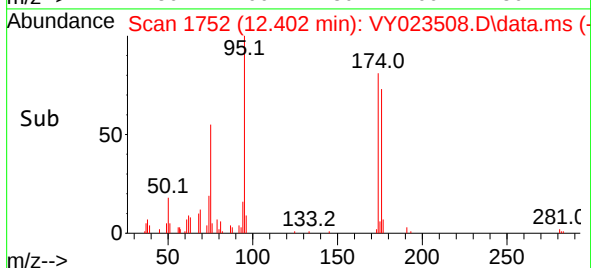
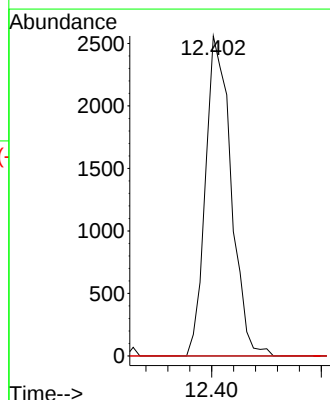
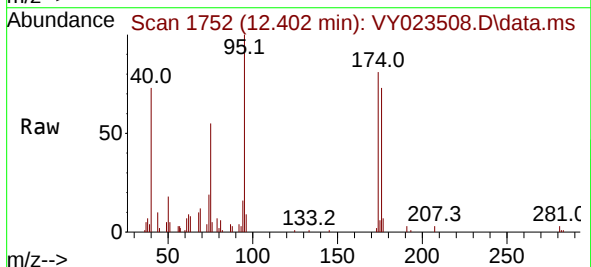
Instrument :
MSVOA_Y
ClientSampleId :

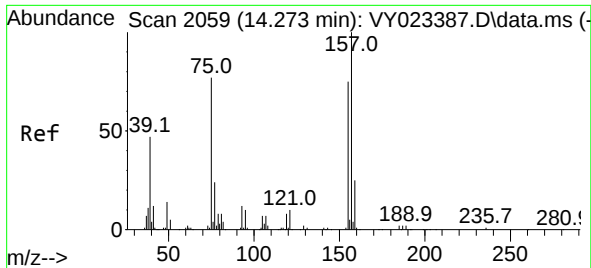
Tgt Ion: 75 Resp: 4152
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 174.296 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023508.D
Acq: 20 Oct 2025 14:59

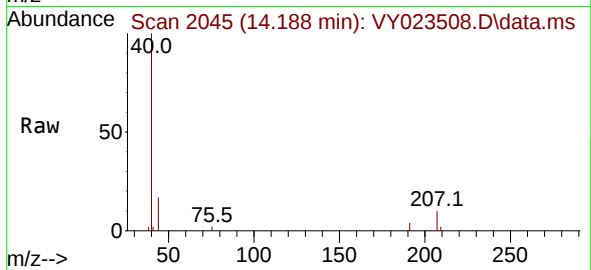
Tgt Ion: 75 Resp: 4152
Ion Ratio Lower Upper
75 100
53 0.0 68.6 102.8#
89 0.0 39.0 58.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.708 ug/l
 RT: 14.188 min Scan# 2059
 Delta R.T. -0.085 min
 Lab File: VY023508.D
 Acq: 20 Oct 2025 14:59

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.0 150.0#
 157 0.0 63.8 191.5#

