

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
 Data File : VY023857.D
 Acq On : 02 Dec 2025 13:42
 Operator : SY/MD
 Sample : Q3741-06RE
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 03 01:03:36 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)

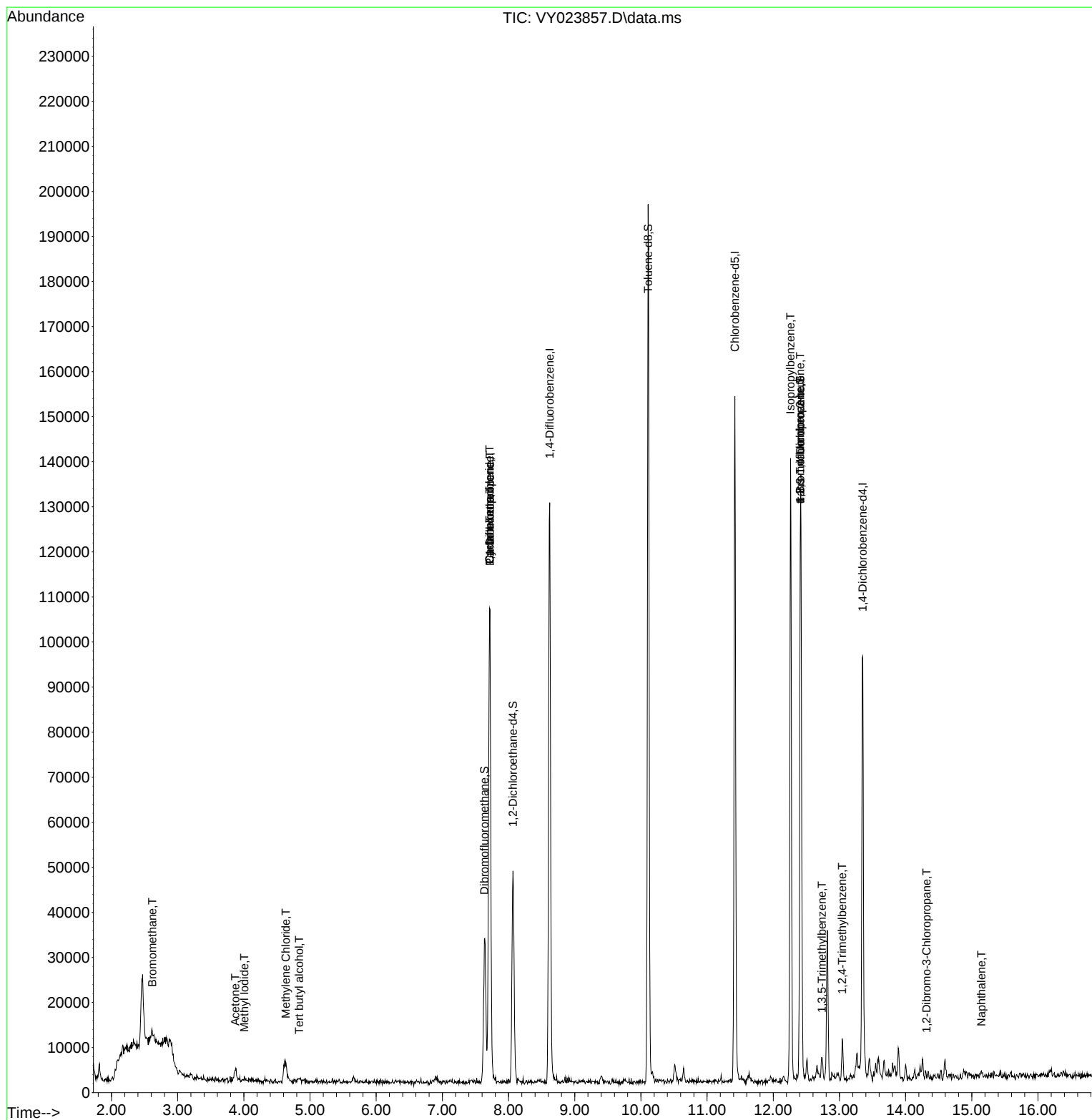
Internal Standards						
1) Pentafluorobenzene	7.719	168	84156	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	112665	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	83728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	24679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	37003	45.150	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.300%
35) Dibromofluoromethane	7.634	113	23506	35.219	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	70.440%
50) Toluene-d8	10.109	98	128458	48.457	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.920%
62) 4-Bromofluorobenzene	12.408	95	28388	32.545	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	65.100%
Target Compounds						
					Qvalue	
5) Bromomethane	2.617	94	1527	2.062	ug/l	97
10) Methyl Iodide	4.007	142	1276	1.406	ug/l #	77
11) Tert butyl alcohol	4.836	59	364	5.408	ug/l #	73
16) Acetone	3.872	43	4873	20.637	ug/l	95
20) Methylene Chloride	4.635	84	3017	3.022	ug/l #	87
31) Cyclohexane	7.713	56	1953	1.240	ug/l #	1
36) 1,1-Dichloropropene	7.719	75	6320	6.176	ug/l #	50
38) Carbon Tetrachloride	7.713	117	8669	7.718	ug/l #	16
73) Isopropylbenzene	12.261	105	6625	3.782	ug/l #	71
76) 1,2,3-Trichloropropane	12.408	75	15293	71.259	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	1741	1.218	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.408	75	15293	150.619	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.042	105	4802	3.360	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.316	75	52	1.077	ug/l #	1
95) Naphthalene	15.145	128	1669	2.299	ug/l #	96

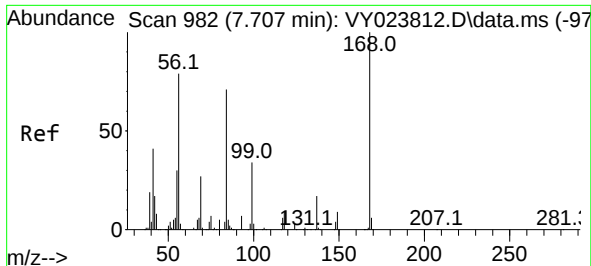
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 03 01:03:36 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

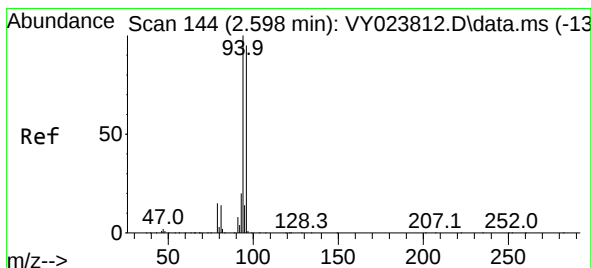
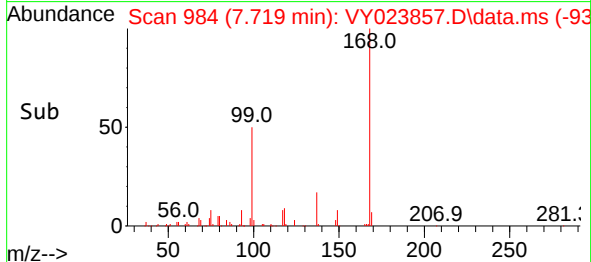
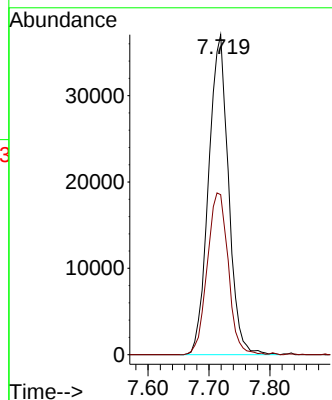
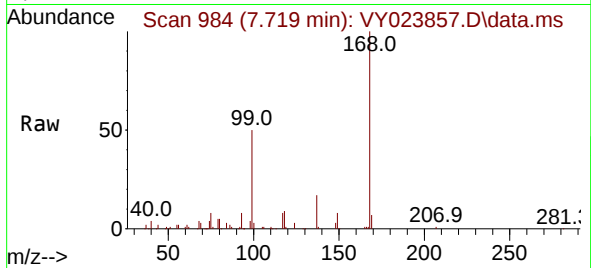




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

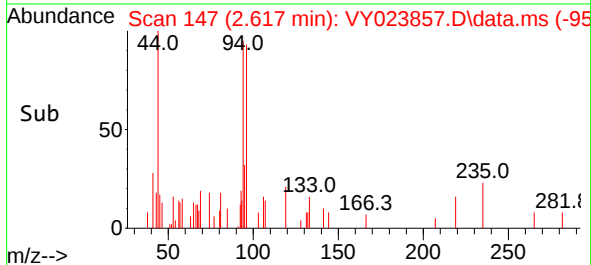
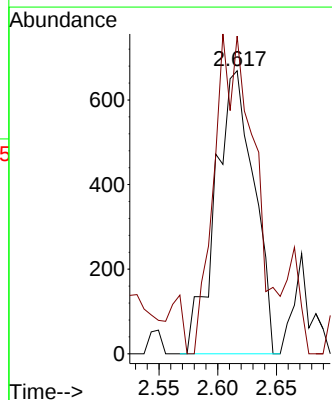
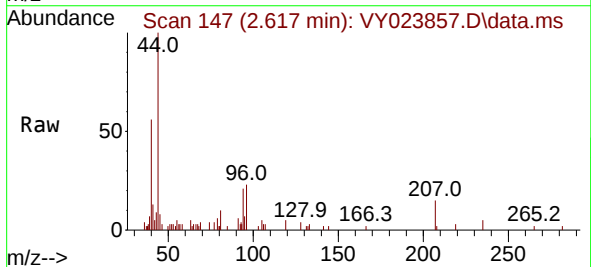
Instrument :
MSVOA_Y
ClientSampleId :

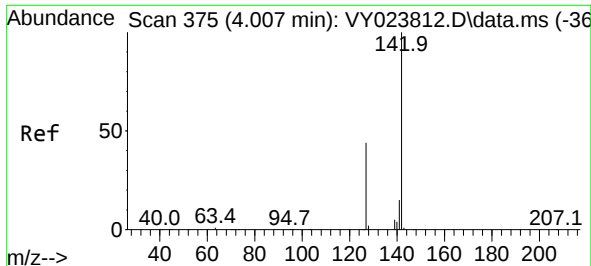
Tgt Ion:168 Resp: 84156
Ion Ratio Lower Upper
168 100
99 50.0 44.0 66.0



#5
Bromomethane
Concen: 2.062 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.018 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

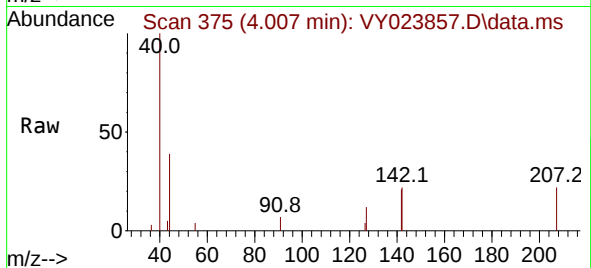
Tgt Ion: 94 Resp: 1527
Ion Ratio Lower Upper
94 100
96 91.9 76.1 114.1



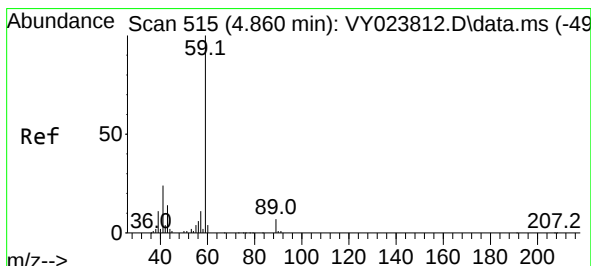
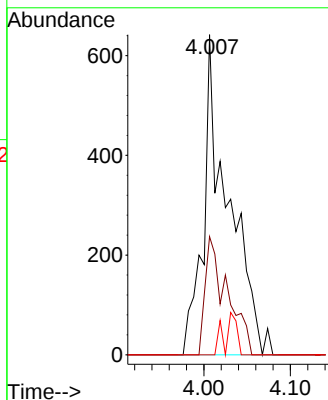
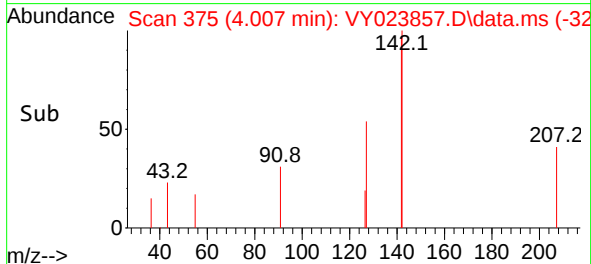


#10
Methyl Iodide
Concen: 1.406 ug/l
RT: 4.007 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Instrument :
MSVOA_Y
ClientSampleId :

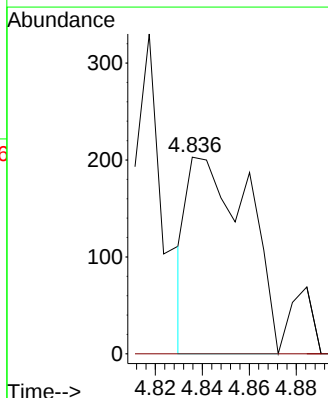
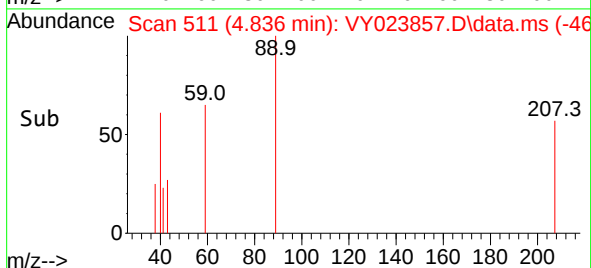
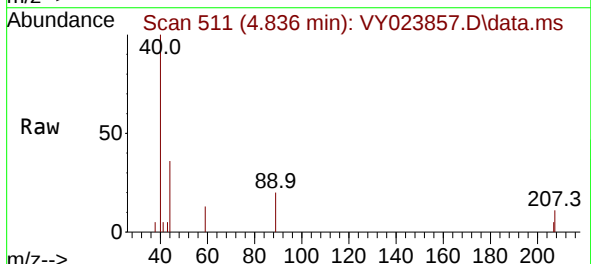


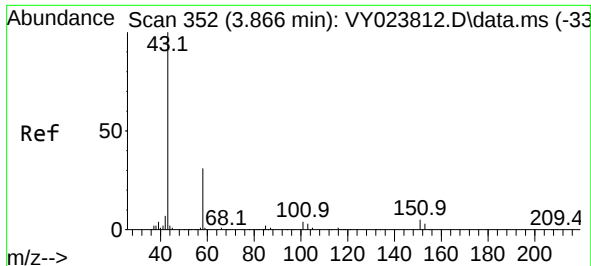
Tgt Ion:142 Resp: 1276
Ion Ratio Lower Upper
142 100
127 32.8 36.2 54.2#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 5.408 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.024 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion: 59 Resp: 364
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

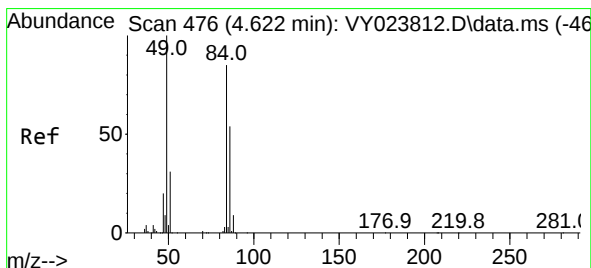
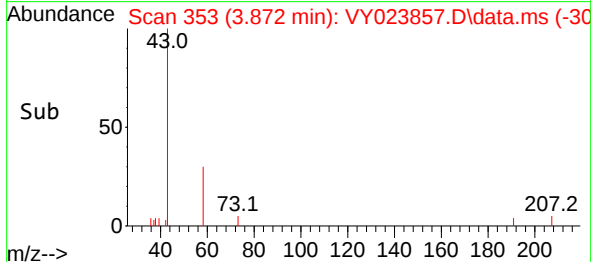
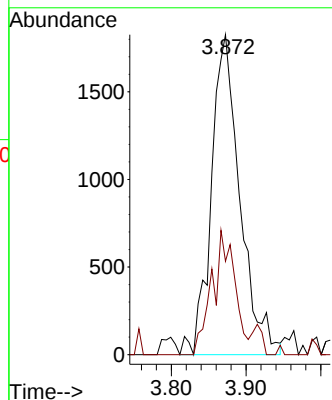
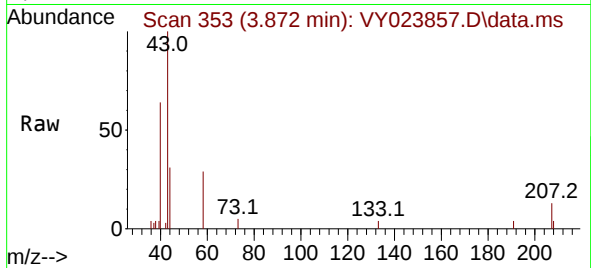




#16
Acetone
Concen: 20.637 ug/l
RT: 3.872 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

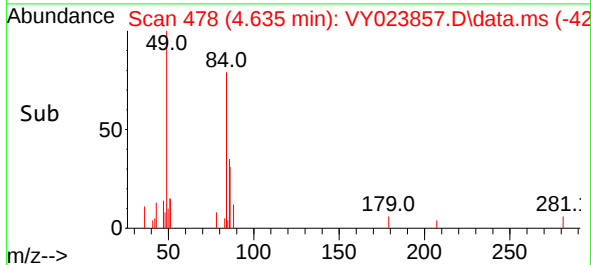
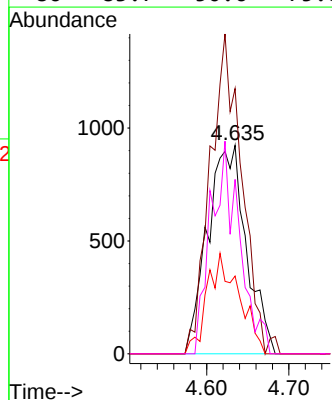
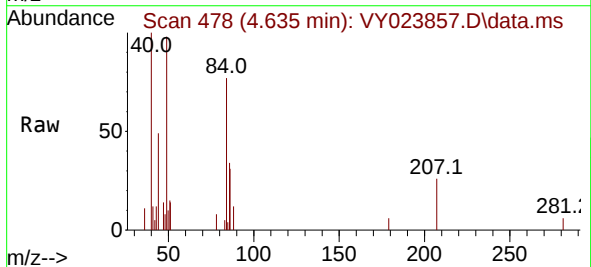
Instrument :
MSVOA_Y
ClientSampleId :

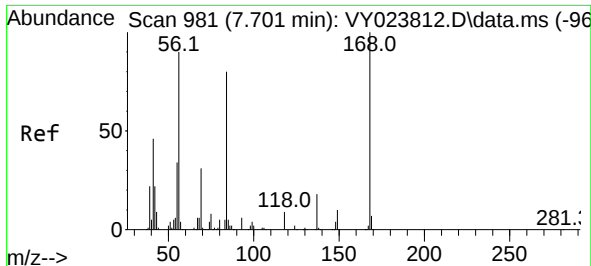
Tgt Ion: 43 Resp: 4873
Ion Ratio Lower Upper
43 100
58 29.2 25.4 38.2



#20
Methylene Chloride
Concen: 3.022 ug/l
RT: 4.635 min Scan# 478
Delta R.T. 0.012 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

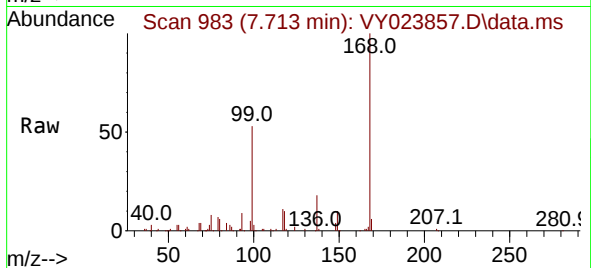
Tgt Ion: 84 Resp: 3017
Ion Ratio Lower Upper
84 100
49 127.2 94.0 141.0
51 37.3 29.2 43.8
86 83.7 50.6 75.8#



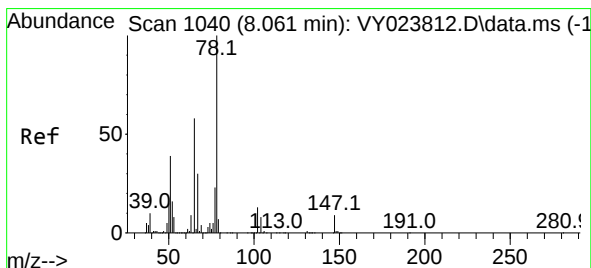
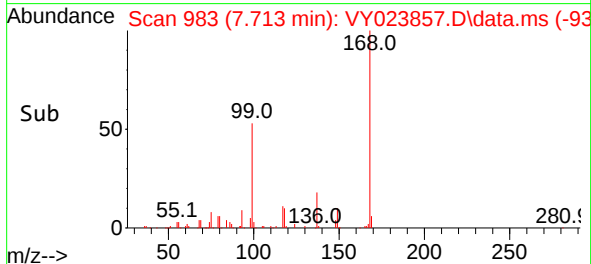
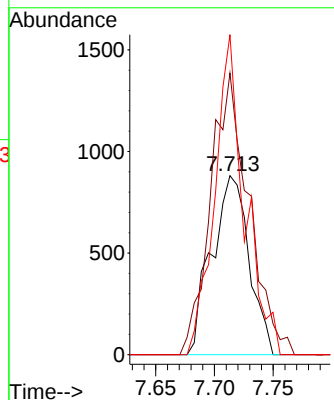


#31
Cyclohexane
Concen: 1.240 ug/l
RT: 7.713 min Scan# 981
Delta R.T. 0.012 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Instrument :
MSVOA_Y
ClientSampleId :

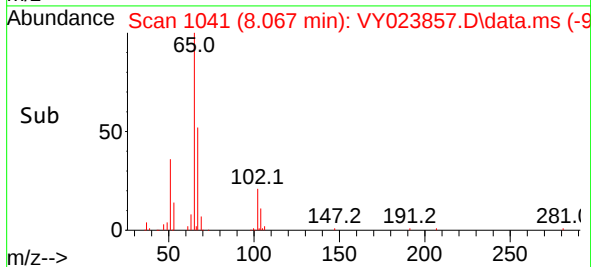
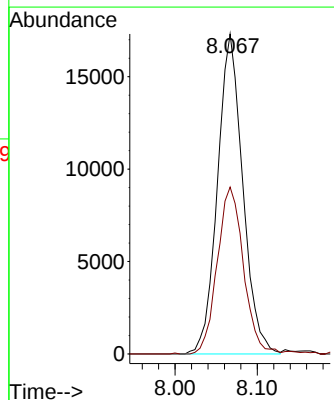
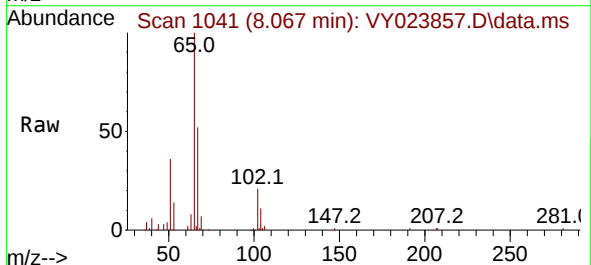


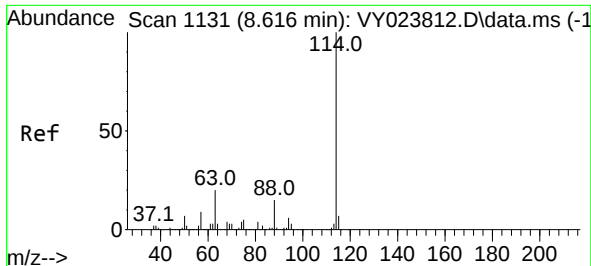
Tgt Ion: 56 Resp: 1953
Ion Ratio Lower Upper
56 100
69 157.3 27.8 41.6#
84 178.8 71.8 107.8#



#33
1,2-Dichloroethane-d4
Concen: 45.150 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion: 65 Resp: 37003
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.4

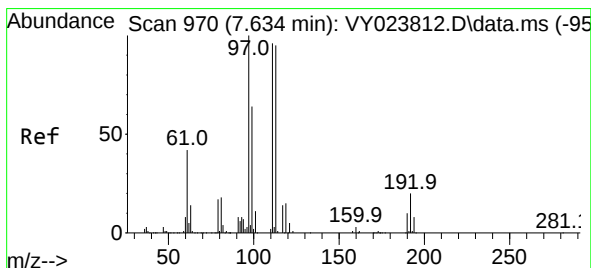
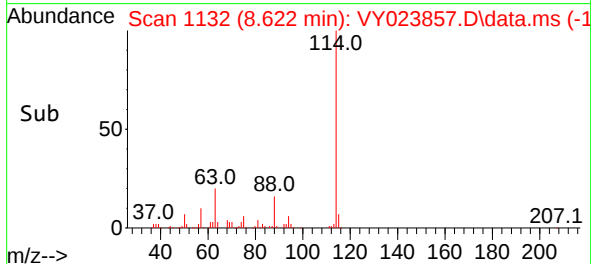
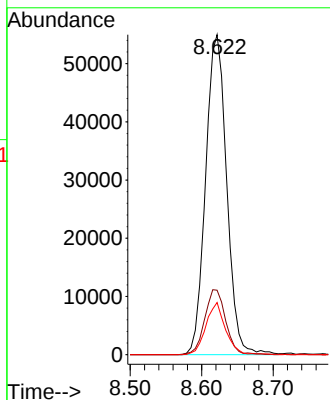
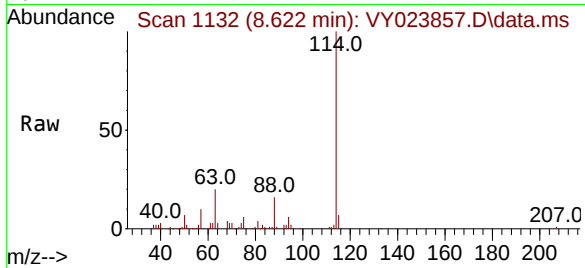




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

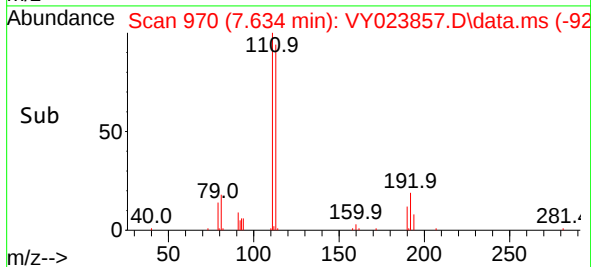
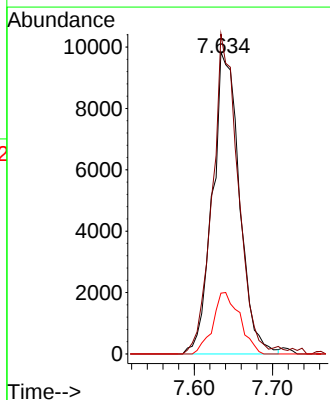
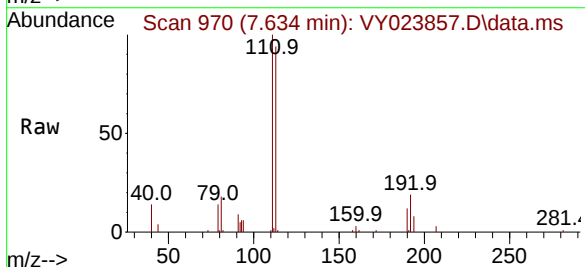
Instrument :
MSVOA_Y
ClientSampleId :

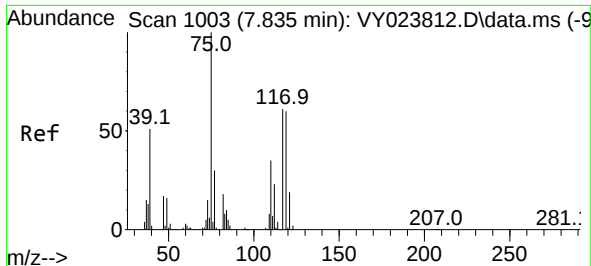
Tgt Ion:114 Resp: 112665
Ion Ratio Lower Upper
114 100
63 20.2 0.0 39.4
88 16.3 0.0 30.8



#35
Dibromofluoromethane
Concen: 35.219 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion:113 Resp: 23506
Ion Ratio Lower Upper
113 100
111 101.8 81.4 122.0
192 20.3 15.8 23.8





#36

1,1-Dichloropropene

Concen: 6.176 ug/l

RT: 7.719 min Scan# 984

Delta R.T. -0.116 min

Lab File: VY023857.D

Acq: 02 Dec 2025 13:42

Instrument :

MSVOA_Y

ClientSampleId :

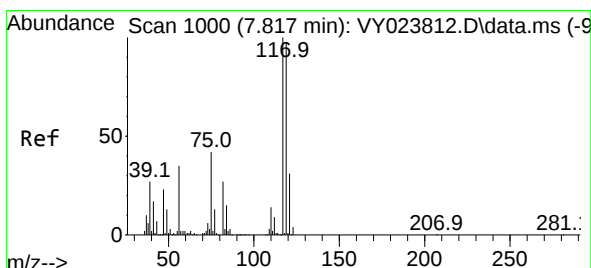
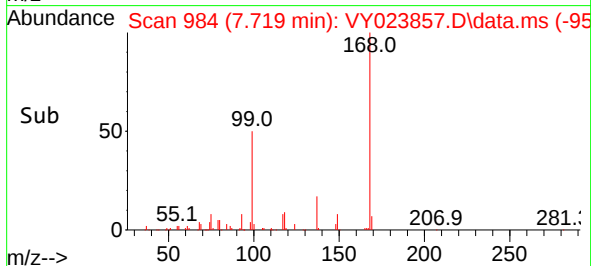
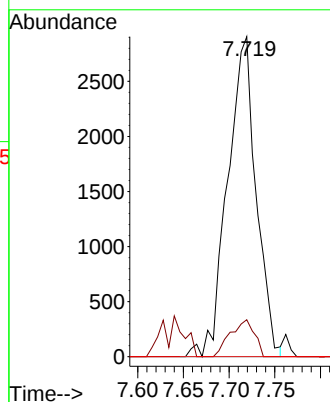
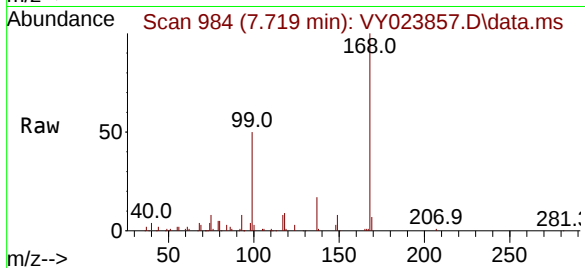
Tgt Ion: 75 Resp: 6320

Ion Ratio Lower Upper

75 100

110 9.8 17.6 52.8#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 7.718 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023857.D

Acq: 02 Dec 2025 13:42

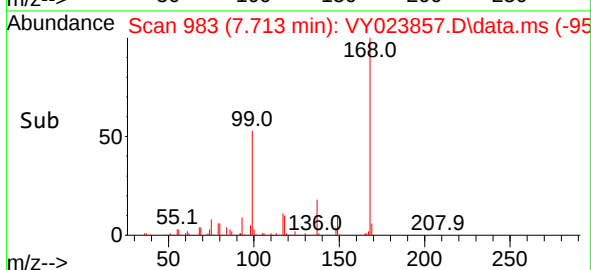
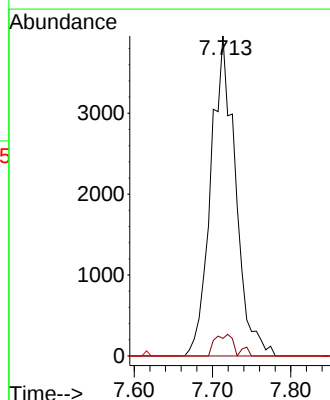
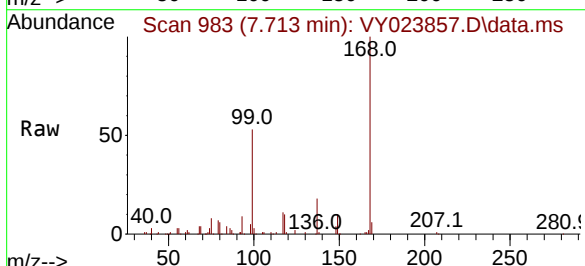
Tgt Ion: 117 Resp: 8669

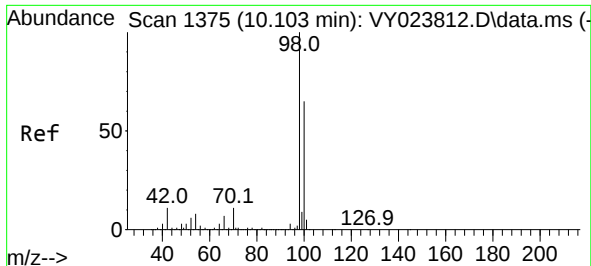
Ion Ratio Lower Upper

117 100

119 5.5 77.3 115.9#

121 0.0 25.0 37.6#

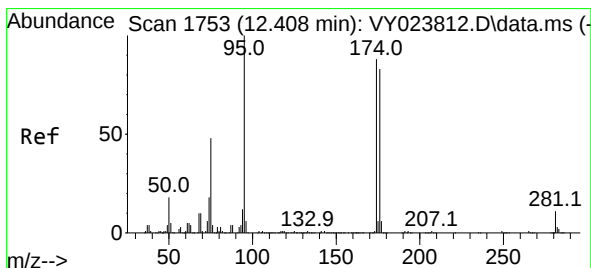
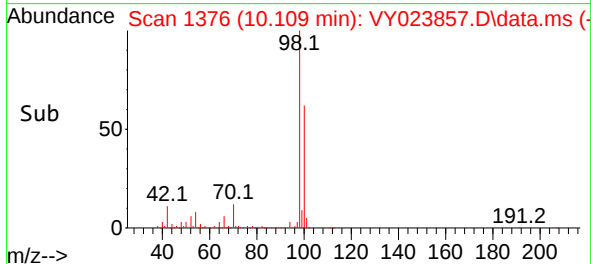
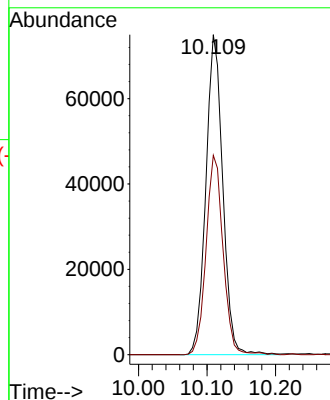
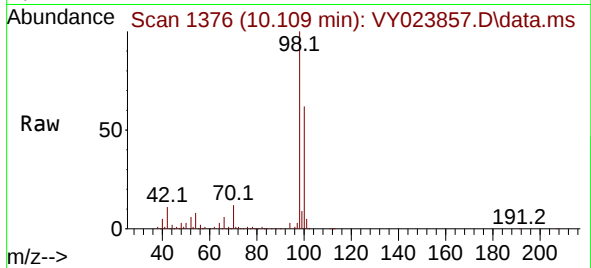




#50
Toluene-d8
Concen: 48.457 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

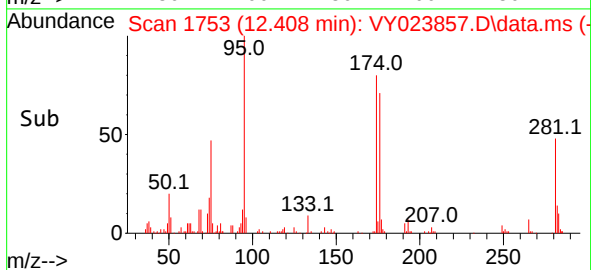
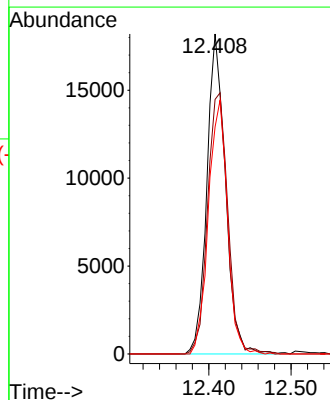
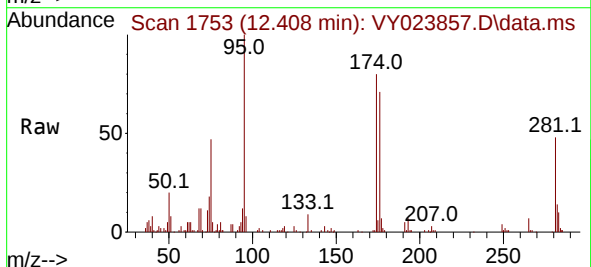
Instrument :
MSVOA_Y
ClientSampleId :

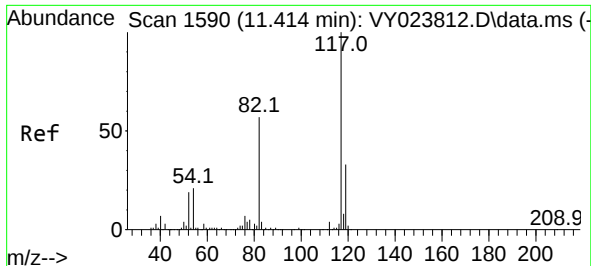
Tgt Ion: 98 Resp: 128458
Ion Ratio Lower Upper
98 100
100 62.8 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 32.545 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion: 95 Resp: 28388
Ion Ratio Lower Upper
95 100
174 89.9 0.0 168.6
176 81.8 0.0 164.6

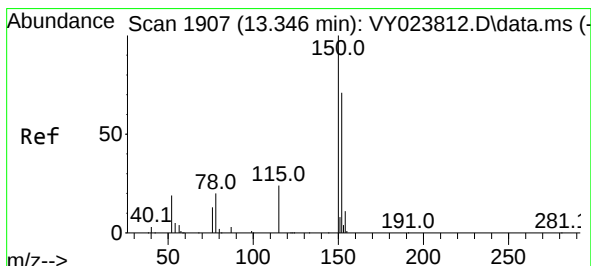
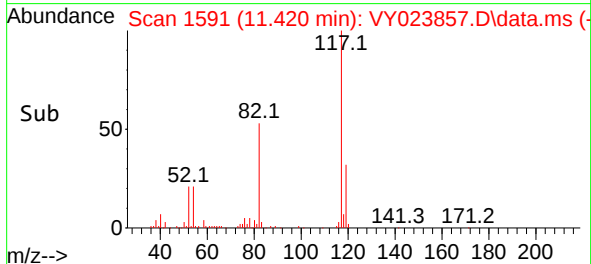
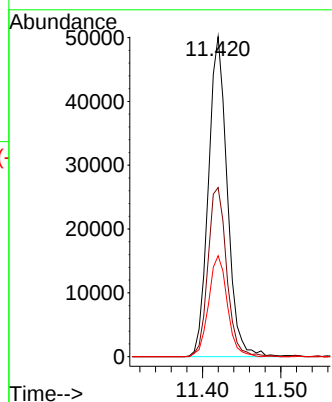
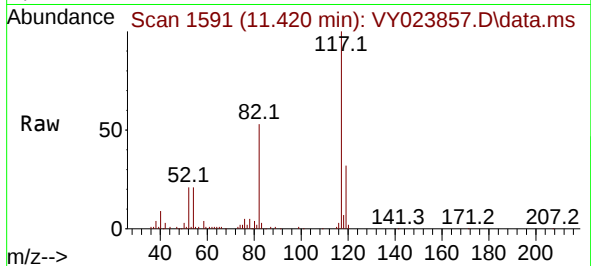




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

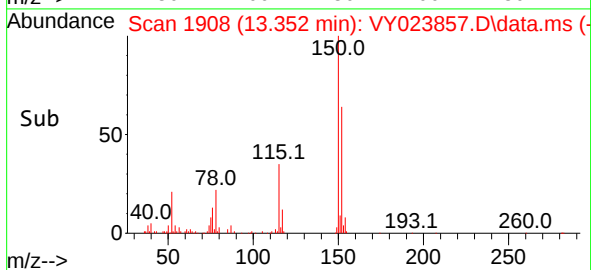
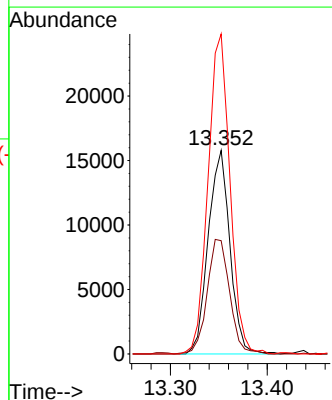
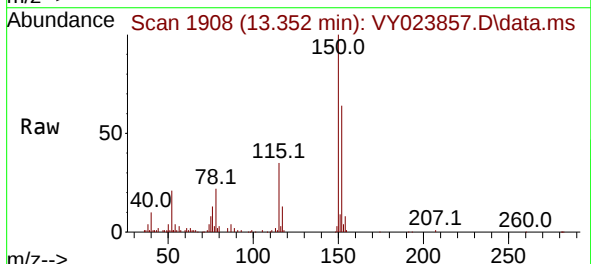
Instrument :
MSVOA_Y
ClientSampleId :

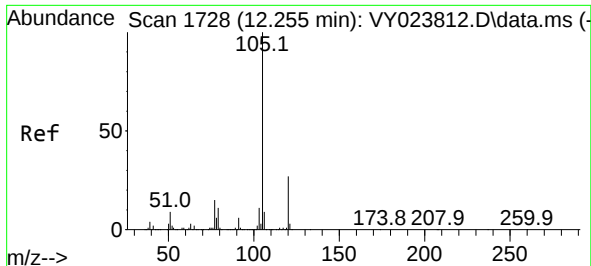
Tgt Ion:117 Resp: 83728
Ion Ratio Lower Upper
117 100
82 52.9 45.4 68.0
119 31.6 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion:152 Resp: 24679
Ion Ratio Lower Upper
152 100
115 58.2 28.7 86.3
150 158.5 0.0 345.6

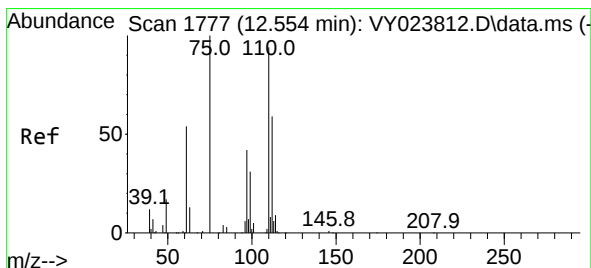
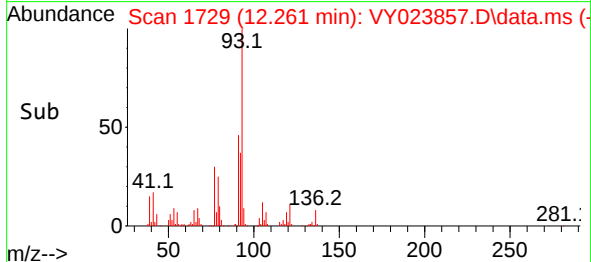
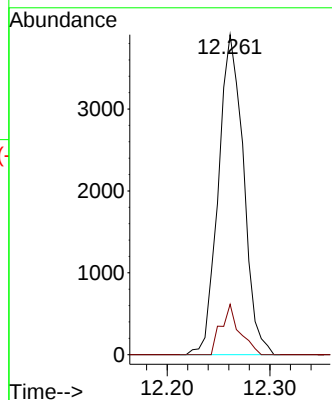
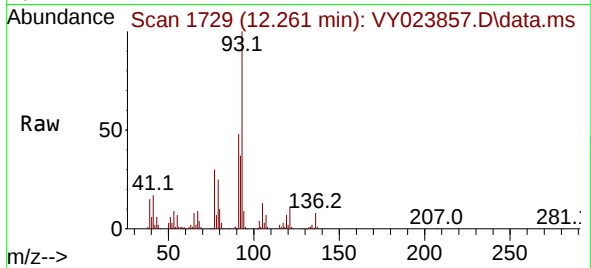




#73
Isopropylbenzene
Concen: 3.782 ug/l
RT: 12.261 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

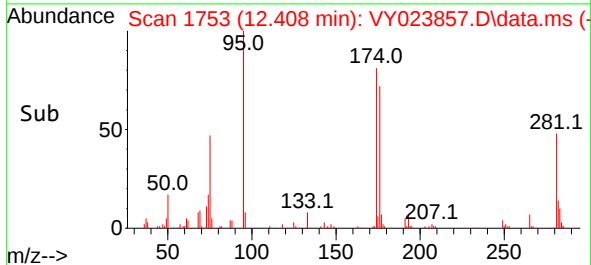
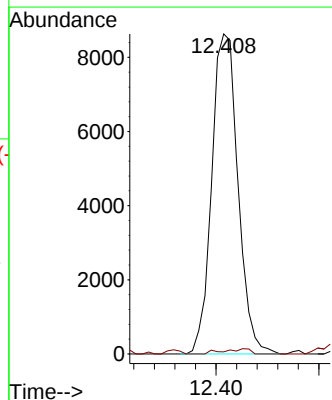
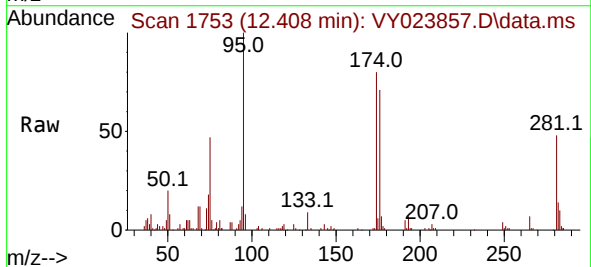
Instrument :
MSVOA_Y
ClientSampleId :

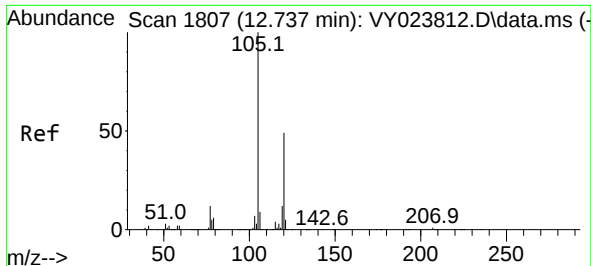
Tgt Ion:105 Resp: 6625
Ion Ratio Lower Upper
105 100
120 11.6 13.3 39.8#



#76
1,2,3-Trichloropropane
Concen: 71.259 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Tgt Ion: 75 Resp: 15293
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

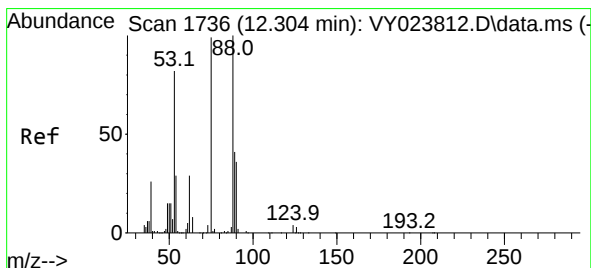
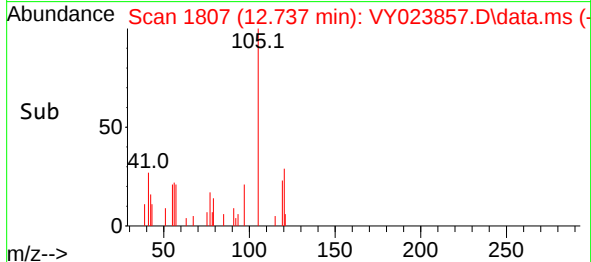
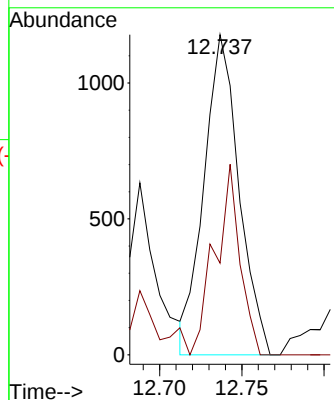
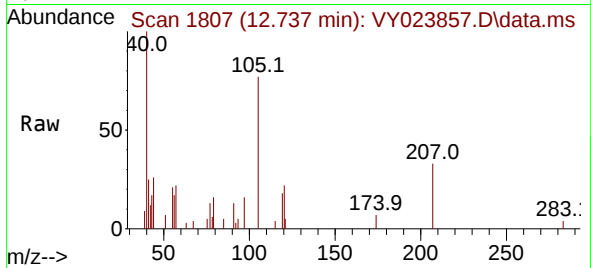




#80
 1,3,5-Trimethylbenzene
 Concen: 1.218 ug/l
 RT: 12.737 min Scan# 1753
 Delta R.T. -0.000 min
 Lab File: VY023857.D
 Acq: 02 Dec 2025 13:42

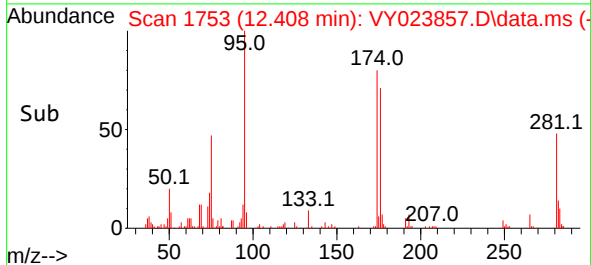
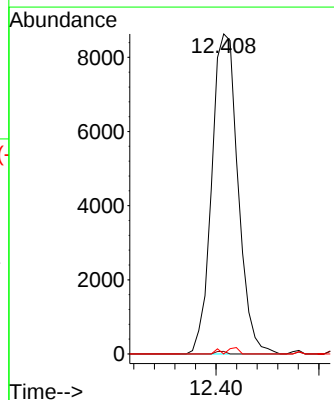
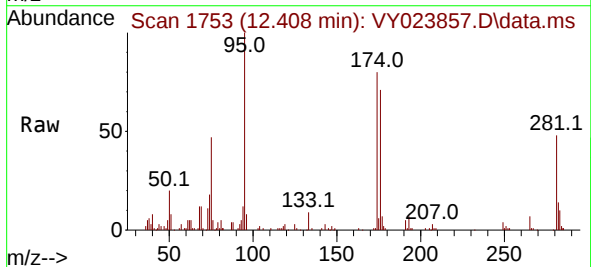
Instrument :
 MSVOA_Y
 ClientSampleId :

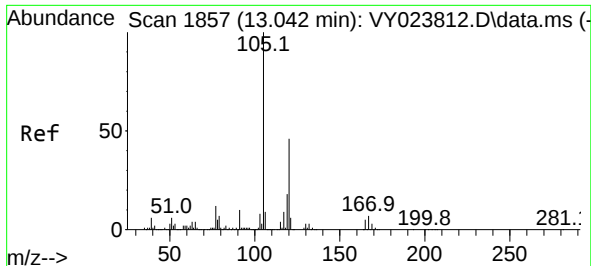
Tgt Ion:105 Resp: 1741
 Ion Ratio Lower Upper
 105 100
 120 42.3 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 150.619 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY023857.D
 Acq: 02 Dec 2025 13:42

Tgt Ion: 75 Resp: 15293
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.3 106.9#
 89 1.1 37.0 55.4#

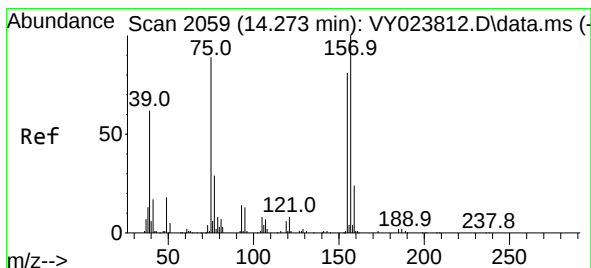
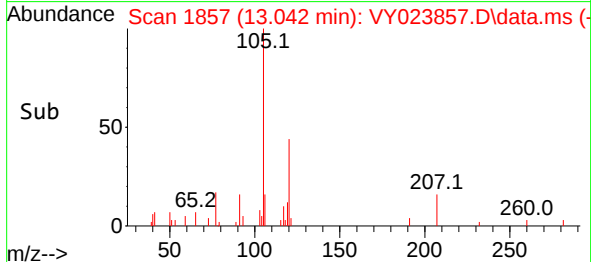
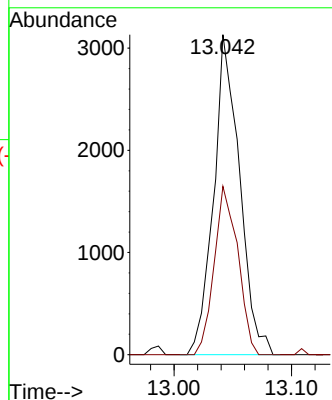
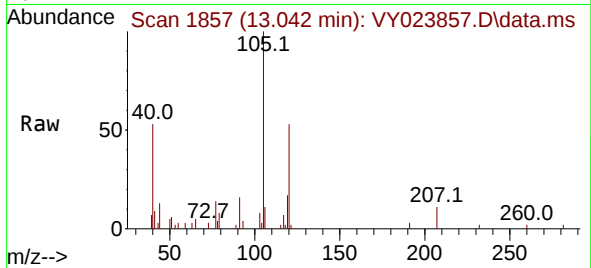




#84
 1,2,4-Trimethylbenzene
 Concen: 3.360 ug/l
 RT: 13.042 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VY023857.D
 Acq: 02 Dec 2025 13:42

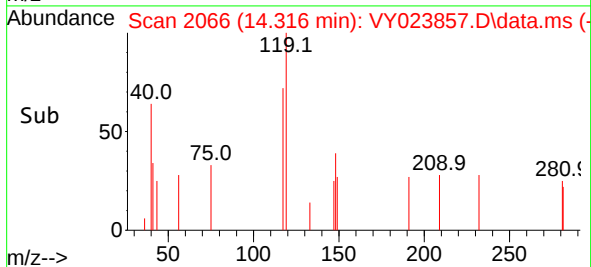
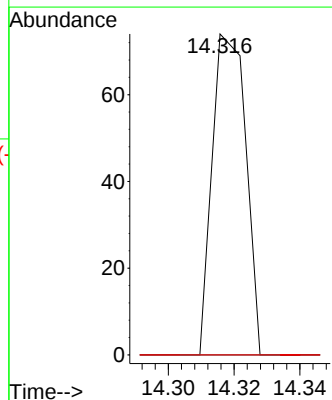
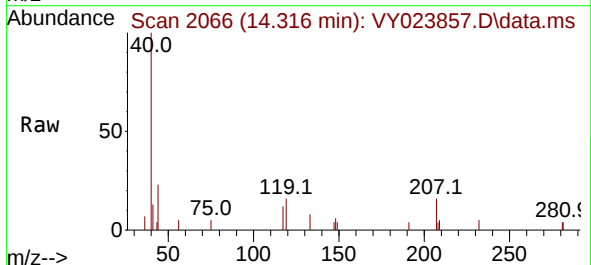
Instrument :
 MSVOA_Y
 ClientSampleId :

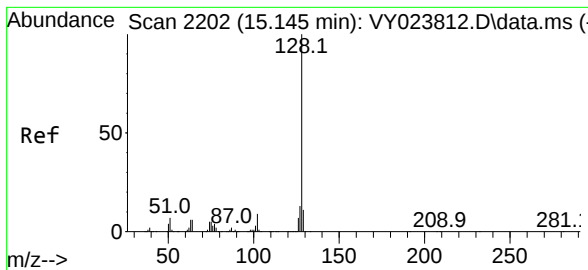
Tgt Ion:105 Resp: 4802
 Ion Ratio Lower Upper
 105 100
 120 47.9 22.5 67.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.077 ug/l
 RT: 14.316 min Scan# 2066
 Delta R.T. 0.043 min
 Lab File: VY023857.D
 Acq: 02 Dec 2025 13:42

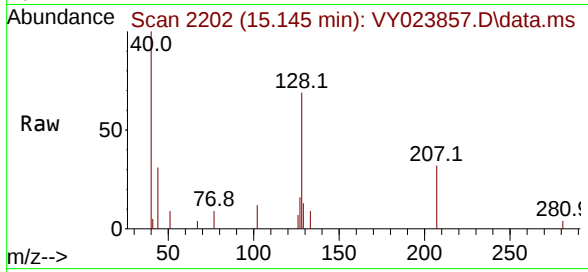
Tgt Ion: 75 Resp: 52
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.0 132.1#
 157 0.0 54.6 163.8#





#95
Naphthalene
Concen: 2.299 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023857.D
Acq: 02 Dec 2025 13:42

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:	128	Resp:	1669
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	14.0	8.8	13.2

