

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023743.D
 Acq On : 11 Nov 2025 16:24
 Operator : SY/MD
 Sample : Q3588-03
 Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-01-11072025

Quant Time: Nov 12 03:38:56 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)

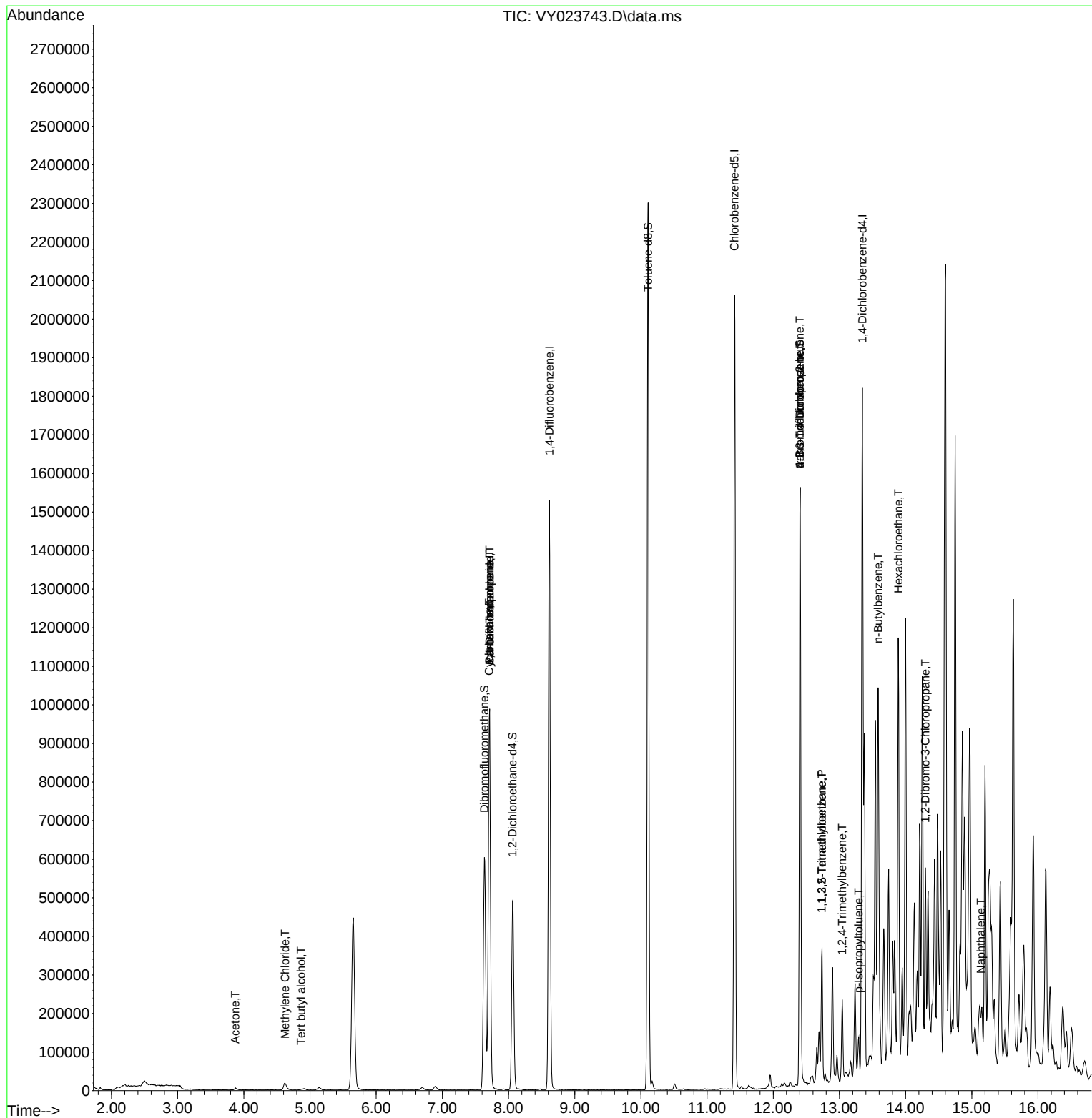
Internal Standards						
1) Pentafluorobenzene	7.713	168	833675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1396654	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1198486	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	493023	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	384357	55.134	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.260%
35) Dibromofluoromethane	7.634	113	440897	51.376	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.760%
50) Toluene-d8	10.109	98	1564638	48.957	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.920%
62) 4-Bromofluorobenzene	12.402	95	474680	44.988	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	89.980%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.866	59	2708	5.221	ug/l #	83
16) Acetone	3.873	43	7105	4.281	ug/l	90
20) Methylene Chloride	4.623	84	14177	1.580	ug/l	98
31) Cyclohexane	7.707	56	13595	1.172	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	52392	4.611	ug/l #	48
38) Carbon Tetrachloride	7.713	117	75440	5.476	ug/l #	16
75) 1,1,2,2-Tetrachloroethane	12.731	83	5381	1.013	ug/l	82
76) 1,2,3-Trichloropropane	12.402	75	226091	51.978	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	155252	5.913	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.402	75	226091	127.459	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.042	105	108401	4.137	ug/l	99
86) p-Isopropyltoluene	13.292	119	52110	1.760	ug/l	99
89) n-Butylbenzene	13.584	91	122870	4.763	ug/l #	1
90) Hexachloroethane	13.889	117	43382	6.812	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.298	75	989	1.134	ug/l #	1
95) Naphthalene	15.139	128	19565	1.336	ug/l #	69

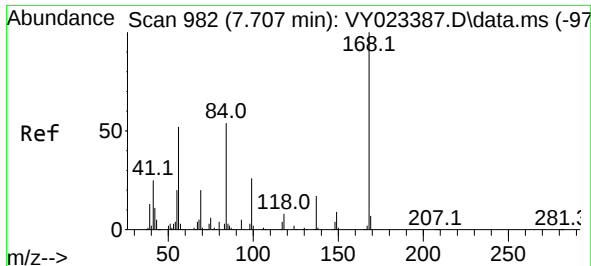
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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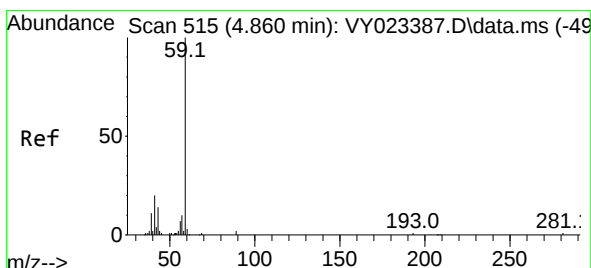
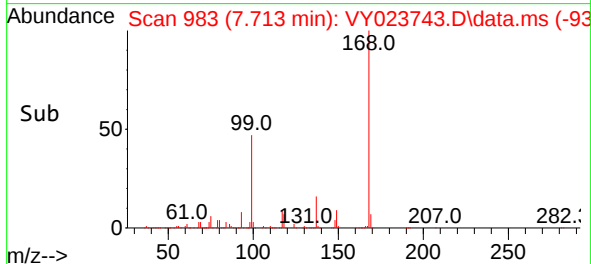
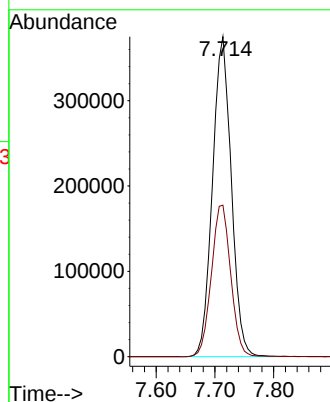
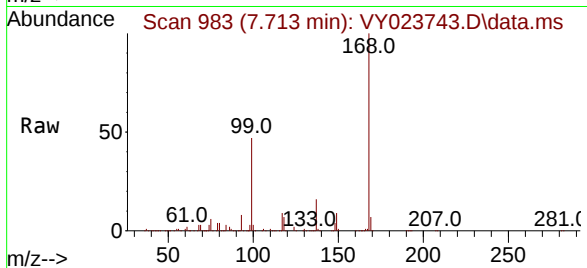




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

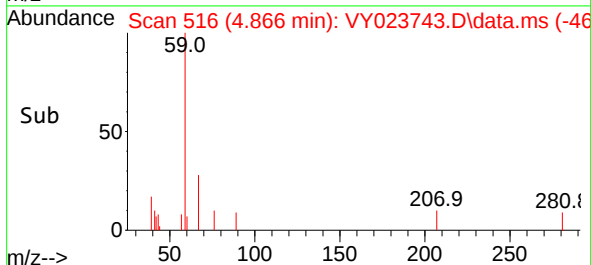
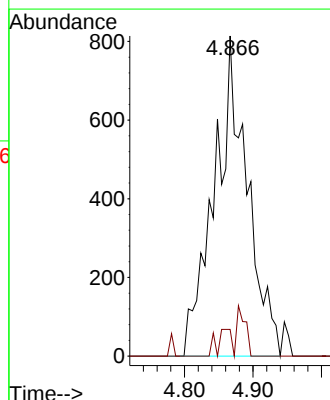
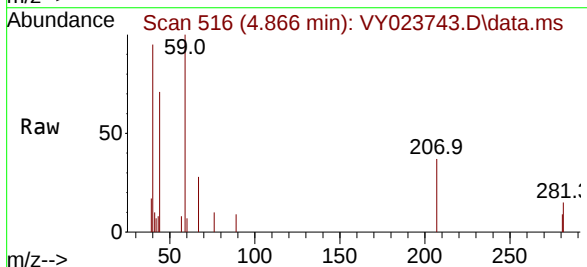
Instrument :
MSVOA_Y
ClientSampleId :
TR-01-11072025

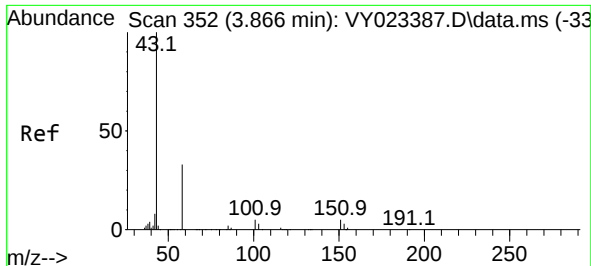
Tgt Ion:168 Resp: 833675
Ion Ratio Lower Upper
168 100
99 47.4 39.7 59.5



#11
Tert butyl alcohol
Concen: 5.221 ug/l
RT: 4.866 min Scan# 516
Delta R.T. 0.006 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Tgt Ion: 59 Resp: 2708
Ion Ratio Lower Upper
59 100
57 4.1 8.3 12.5#





#16

Acetone

Concen: 4.281 ug/l

RT: 3.873 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY023743.D

Acq: 11 Nov 2025 16:24

Instrument :

MSVOA_Y

ClientSampleId :

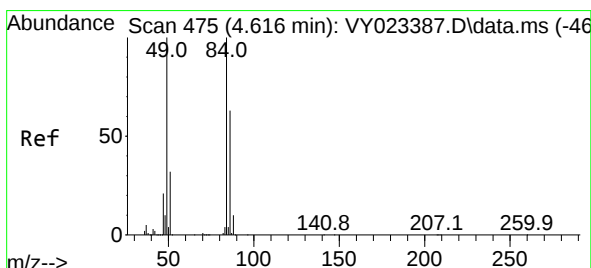
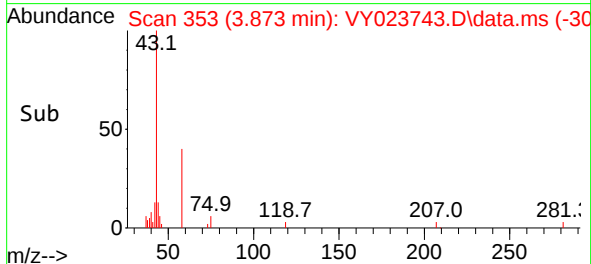
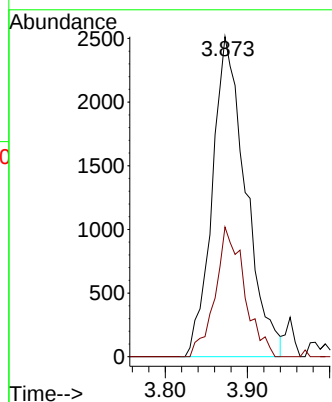
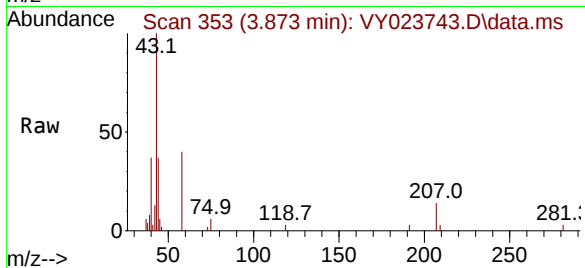
TR-01-11072025

Tgt Ion: 43 Resp: 7105

Ion Ratio Lower Upper

43 100

58 40.5 27.7 41.5



#20

Methylene Chloride

Concen: 1.580 ug/l

RT: 4.623 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY023743.D

Acq: 11 Nov 2025 16:24

Tgt Ion: 84 Resp: 14177

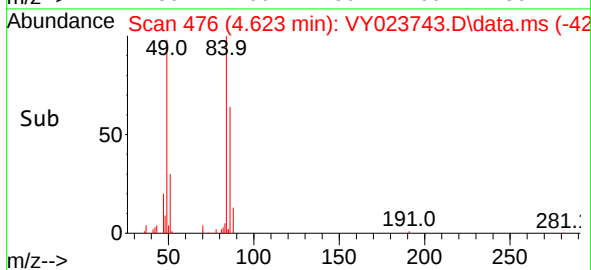
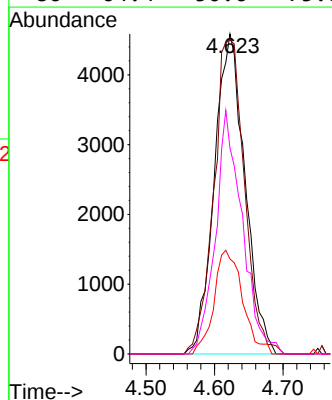
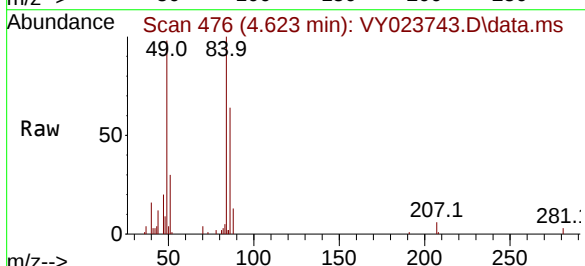
Ion Ratio Lower Upper

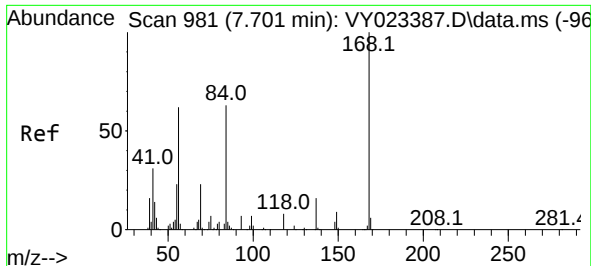
84 100

49 98.1 80.2 120.4

51 29.7 25.9 38.9

86 64.4 50.6 75.8

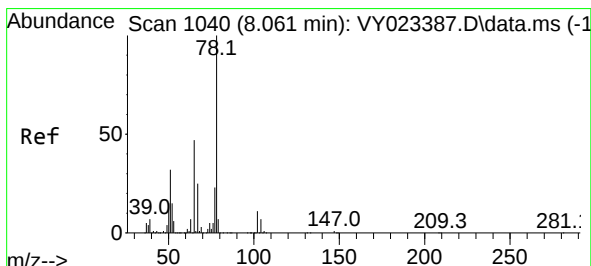
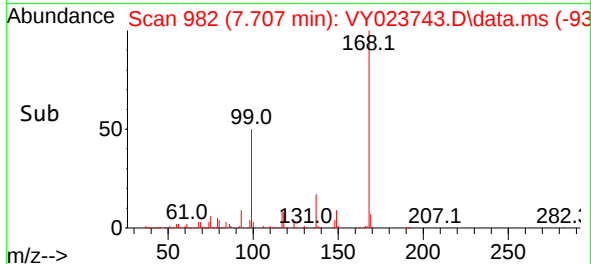
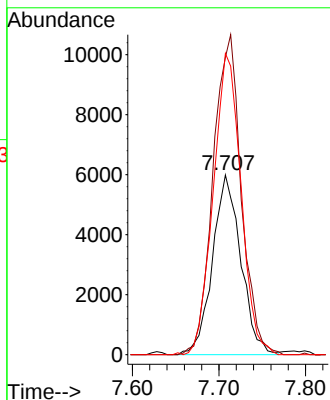
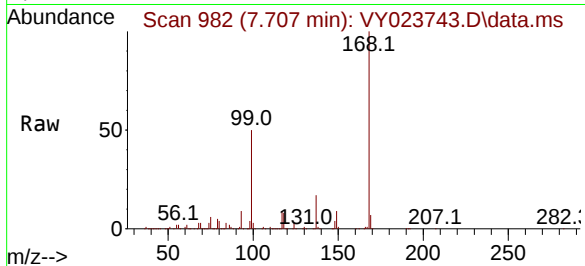




#31
Cyclohexane
Concen: 1.172 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

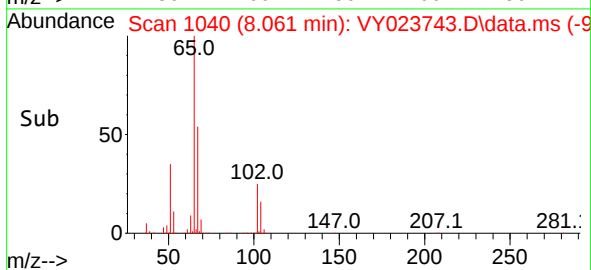
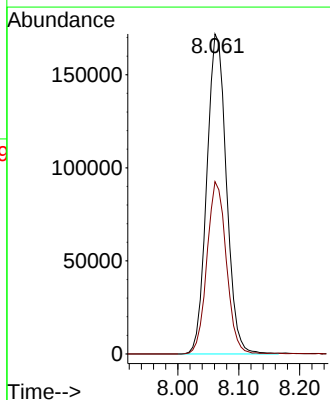
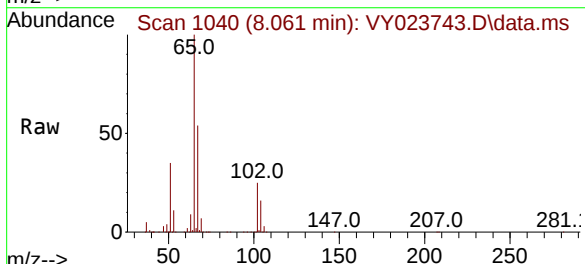
Instrument :
MSVOA_Y
ClientSampleId :
TR-01-11072025

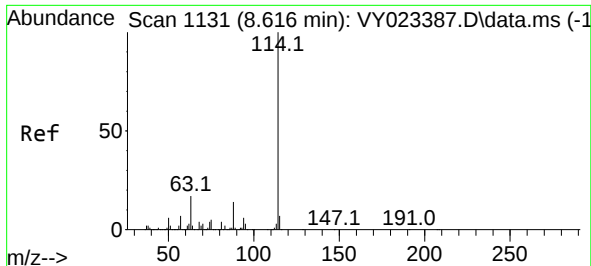
Tgt Ion: 56 Resp: 13595
Ion Ratio Lower Upper
56 100
69 165.4 30.0 45.0#
84 167.7 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 55.134 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Tgt Ion: 65 Resp: 384357
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.8

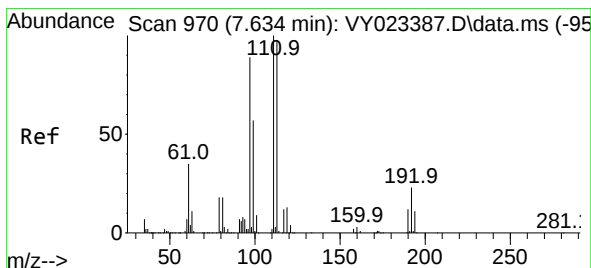
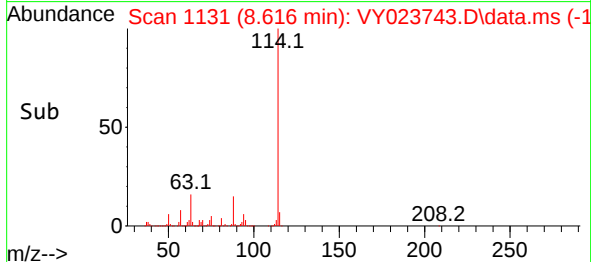
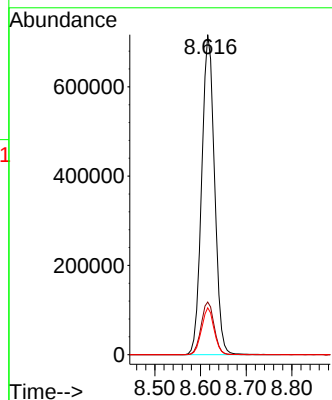
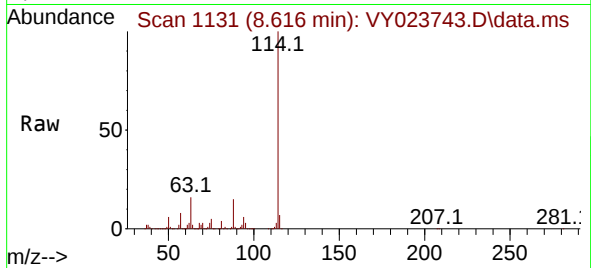




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

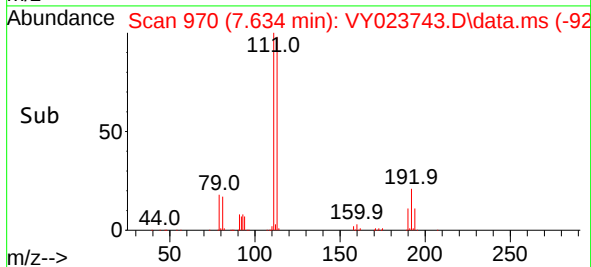
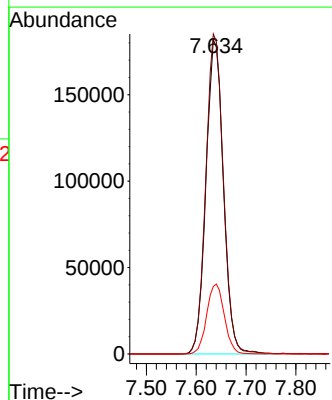
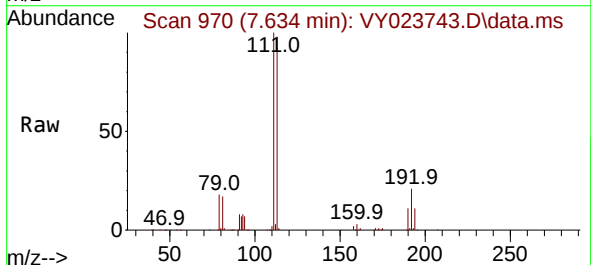
Instrument :
MSVOA_Y
ClientSampleId :
TR-01-11072025

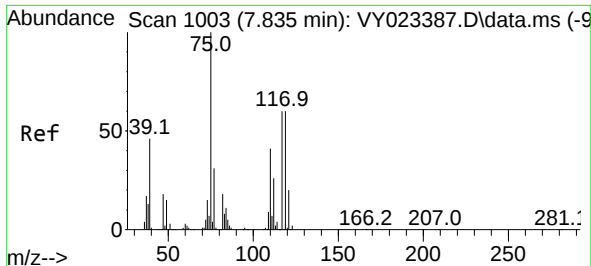
Tgt Ion:114 Resp: 1396654
Ion Ratio Lower Upper
114 100
63 16.4 0.0 34.2
88 14.6 0.0 28.4



#35
Dibromofluoromethane
Concen: 51.376 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Tgt Ion:113 Resp: 440897
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.6
192 22.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.611 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY023743.D

Acq: 11 Nov 2025 16:24

Instrument :

MSVOA_Y

ClientSampleId :

TR-01-11072025

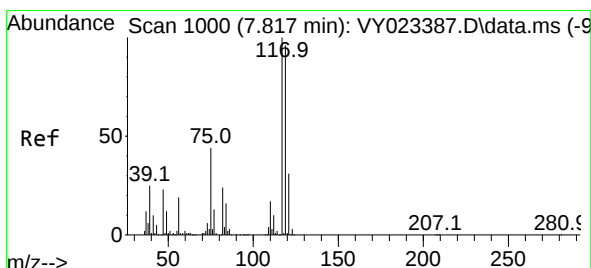
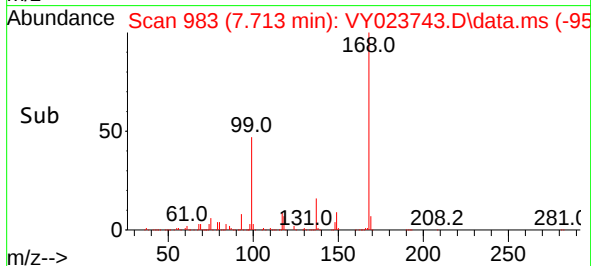
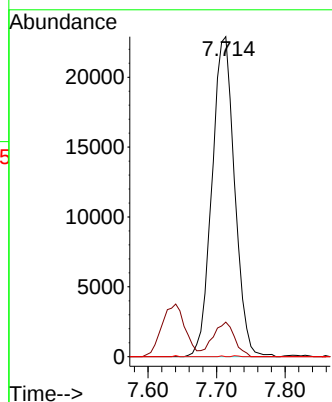
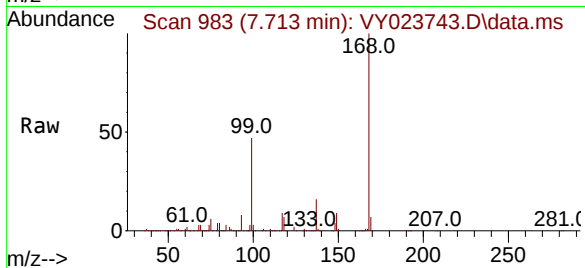
Tgt Ion: 75 Resp: 52392

Ion Ratio Lower Upper

75 100

110 10.3 19.9 59.7#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.476 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023743.D

Acq: 11 Nov 2025 16:24

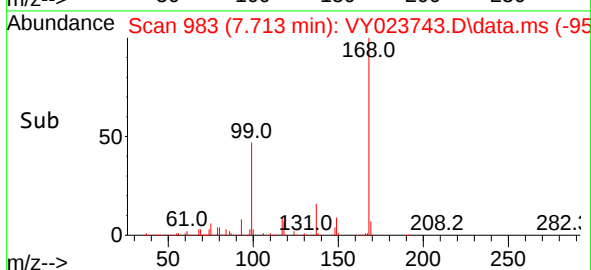
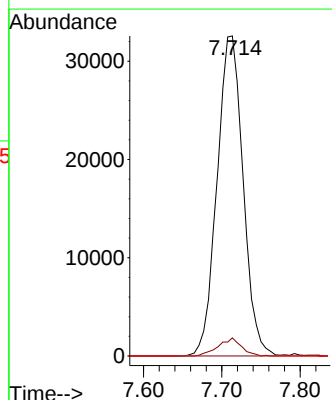
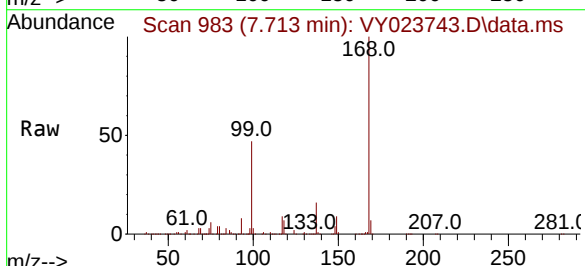
Tgt Ion: 117 Resp: 75440

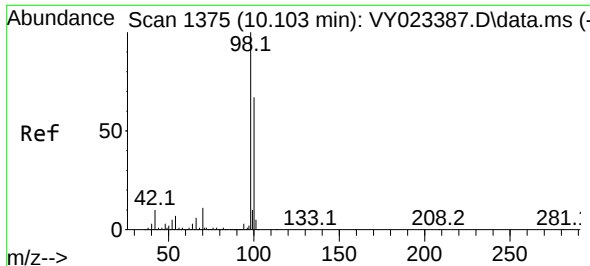
Ion Ratio Lower Upper

117 100

119 5.6 76.8 115.2#

121 0.0 24.5 36.7#

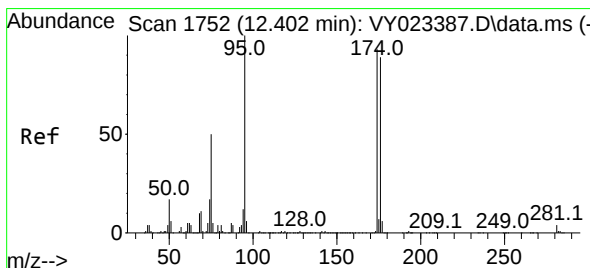
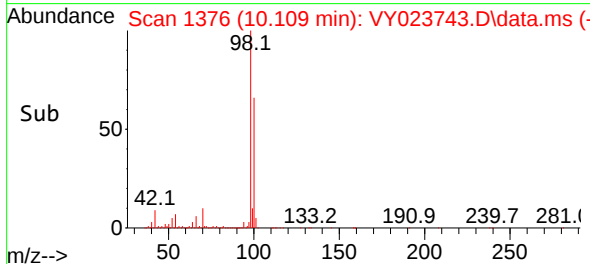
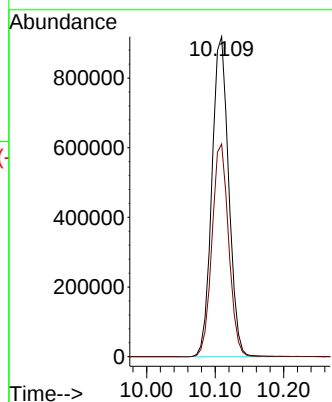
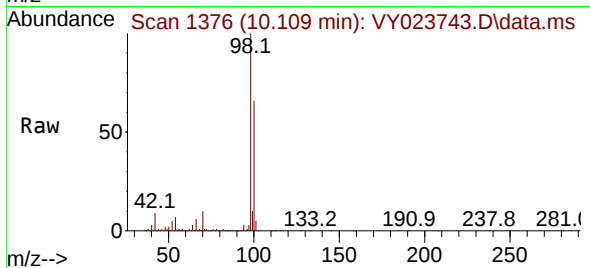




#50
Toluene-d8
Concen: 48.957 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

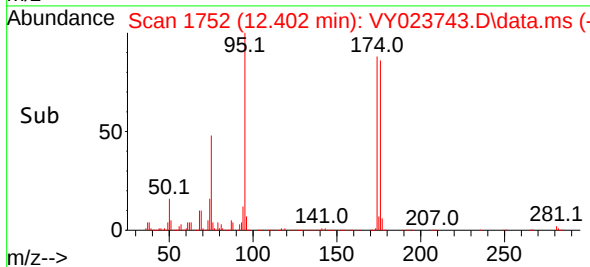
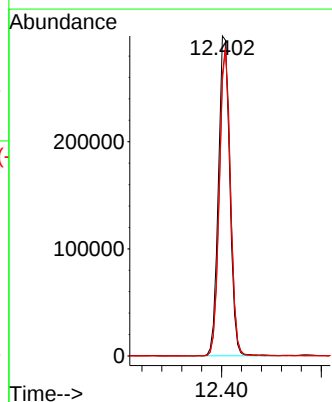
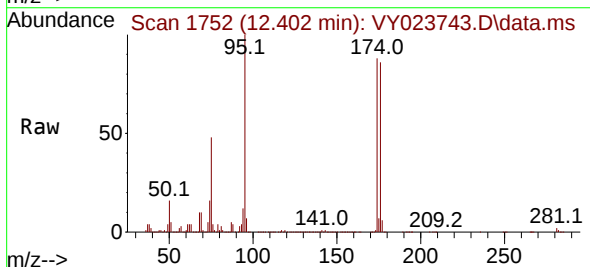
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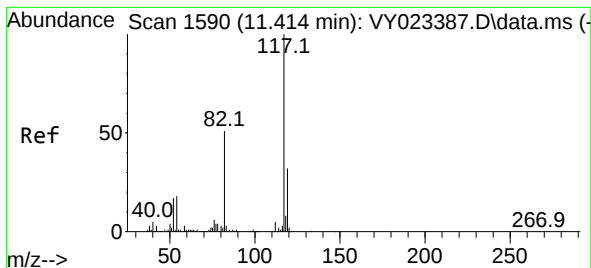
Tgt Ion: 98 Resp: 1564638
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 44.988 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Tgt Ion: 95 Resp: 474680
Ion Ratio Lower Upper
95 100
174 95.0 0.0 192.8
176 92.1 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: VY023743.D

Acq: 11 Nov 2025 16:24

Instrument :

MSVOA_Y

ClientSampleId :

TR-01-11072025

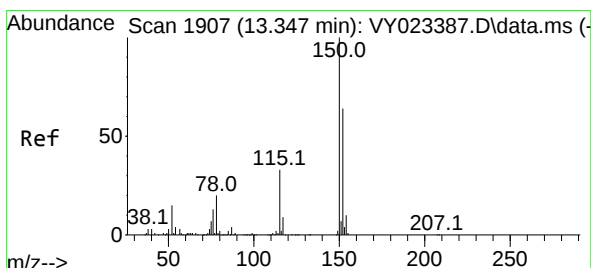
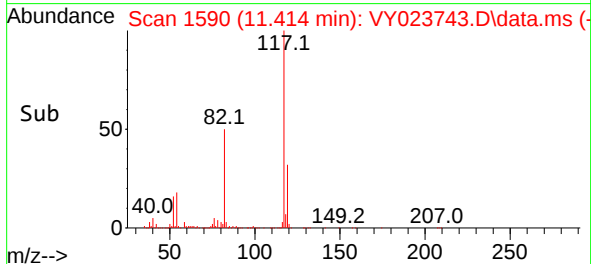
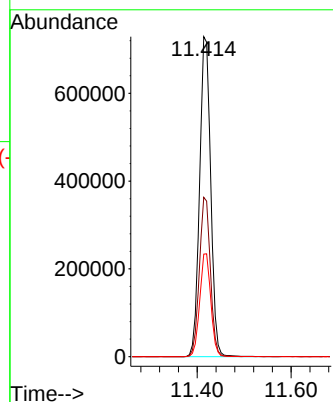
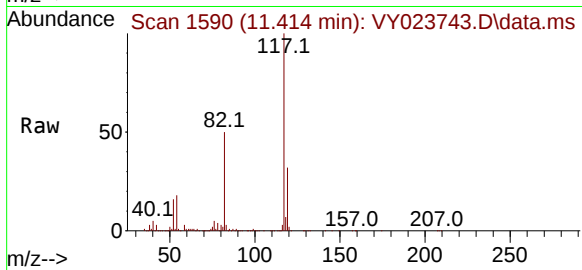
Tgt Ion:117 Resp: 1198486

Ion Ratio Lower Upper

117 100

82 49.8 41.0 61.4

119 32.1 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: VY023743.D

Acq: 11 Nov 2025 16:24

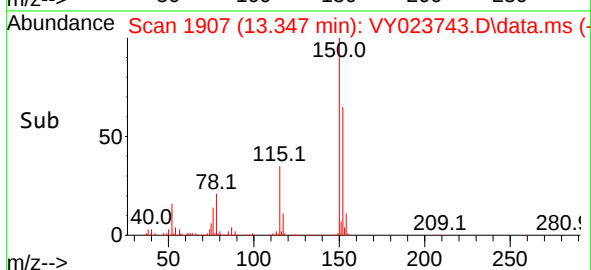
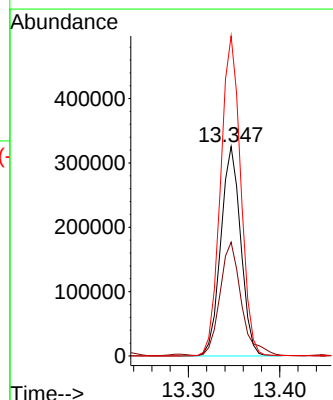
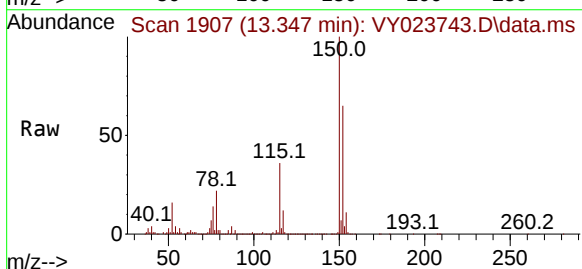
Tgt Ion:152 Resp: 493023

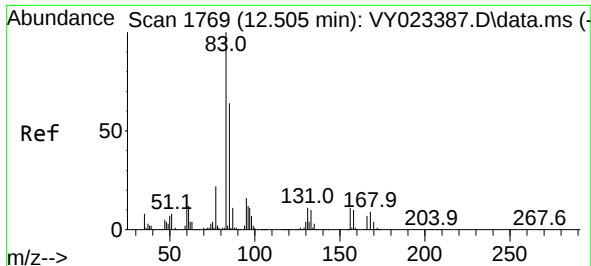
Ion Ratio Lower Upper

152 100

115 57.9 27.1 81.2

150 154.5 0.0 347.4

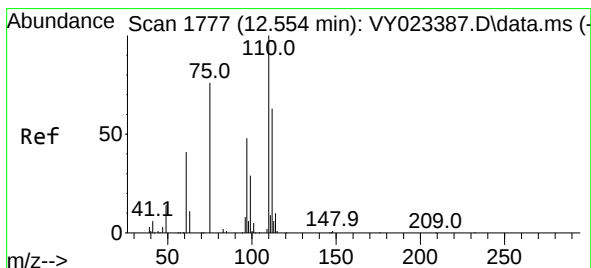
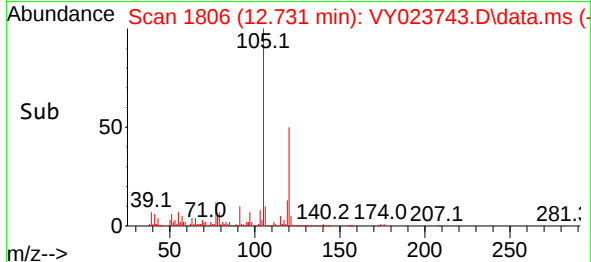
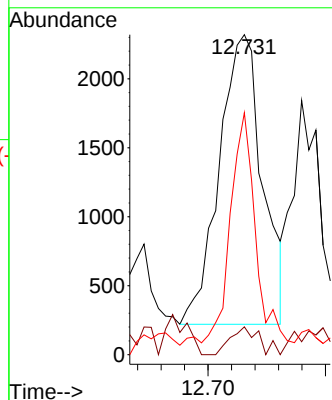
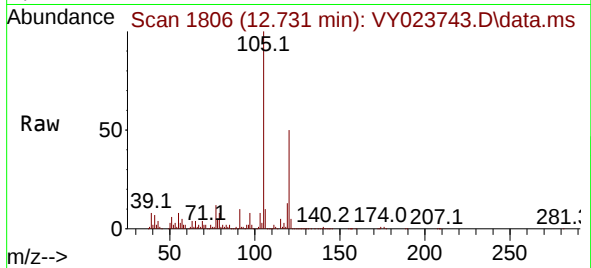




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.013 ug/l
 RT: 12.731 min Scan# 1752
 Delta R.T. 0.226 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

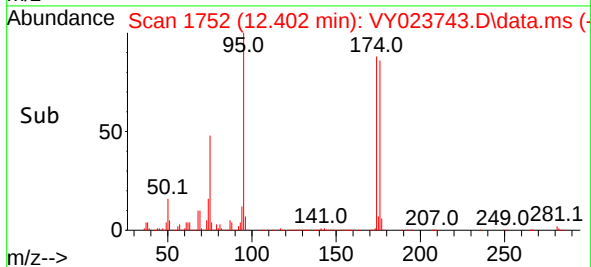
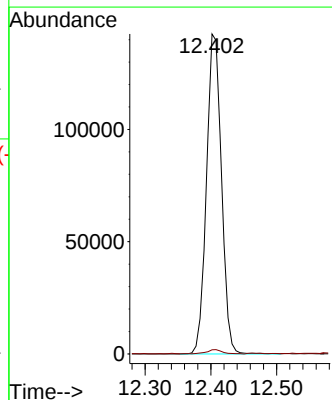
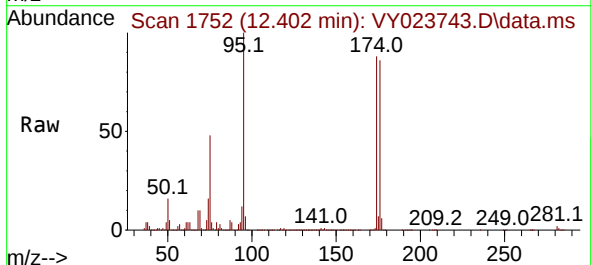
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-01-11072025

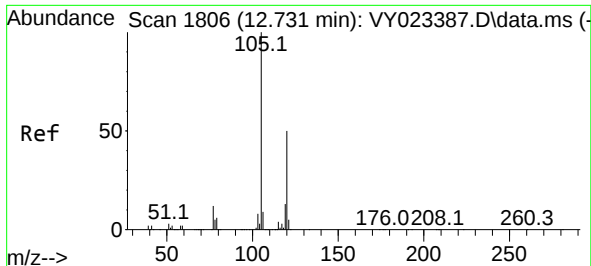
Tgt Ion: 83 Resp: 5381
 Ion Ratio Lower Upper
 83 100
 131 6.4 5.9 17.6
 85 49.0 31.8 95.3



#76
 1,2,3-Trichloropropane
 Concen: 51.978 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

Tgt Ion: 75 Resp: 226091
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#

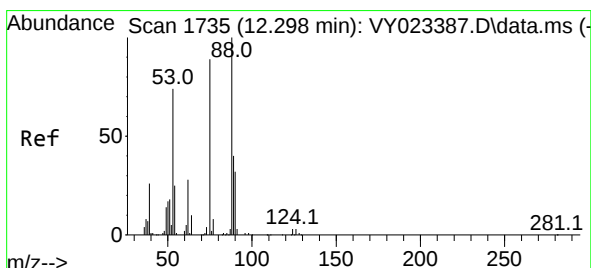
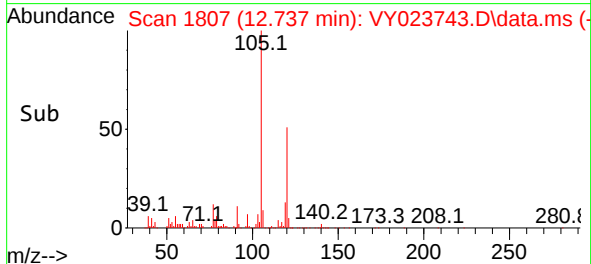
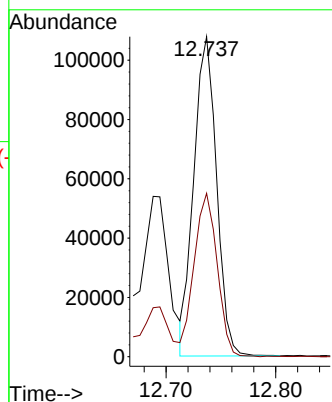
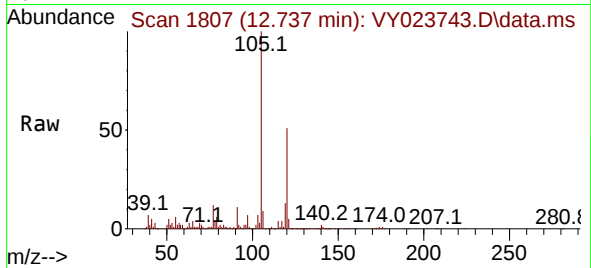




#80
 1,3,5-Trimethylbenzene
 Concen: 5.913 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

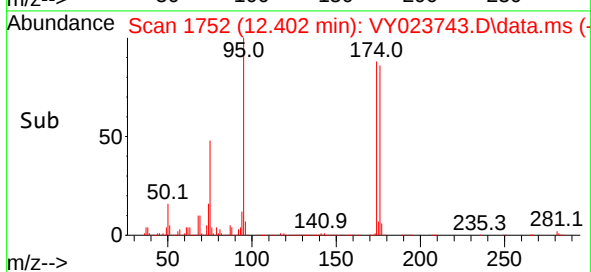
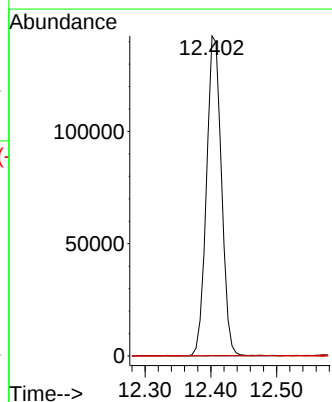
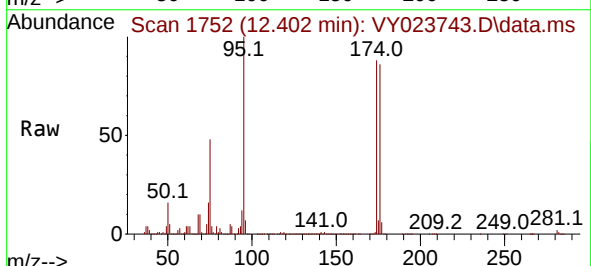
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-01-11072025

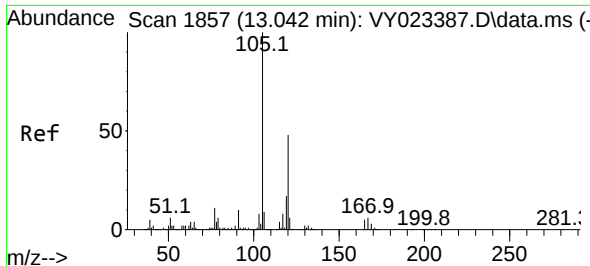
Tgt Ion:105 Resp: 155252
 Ion Ratio Lower Upper
 105 100
 120 51.9 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.459 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

Tgt Ion: 75 Resp: 226091
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 0.0 39.0 58.4#

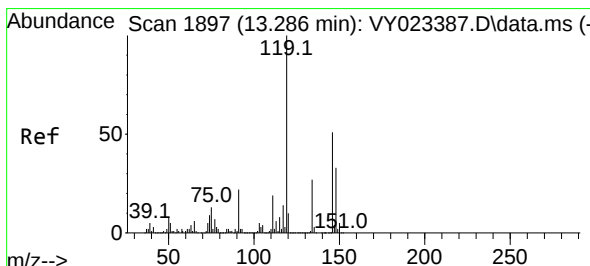
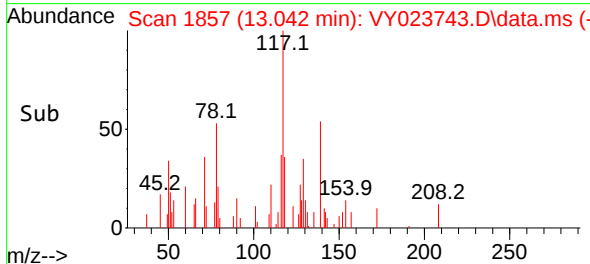
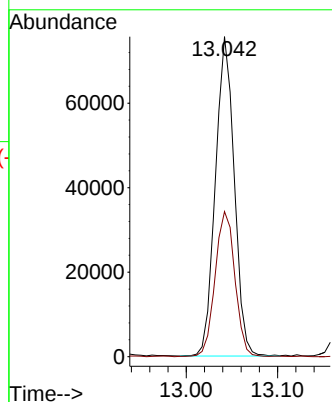
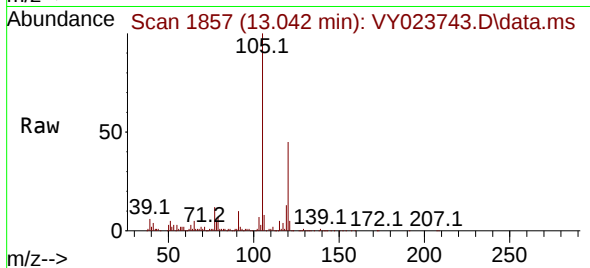




#84
 1,2,4-Trimethylbenzene
 Concen: 4.137 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.000 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

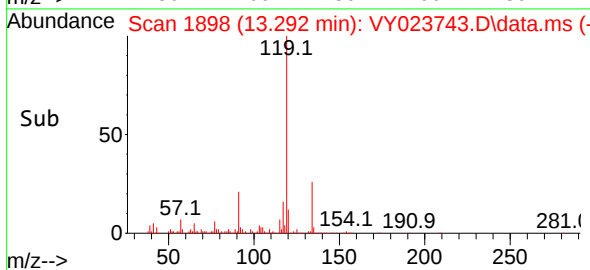
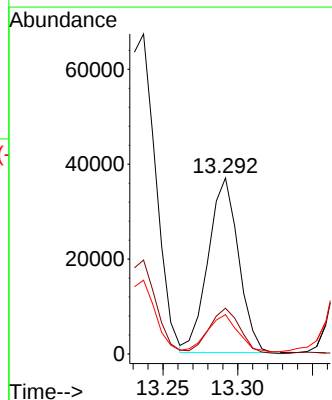
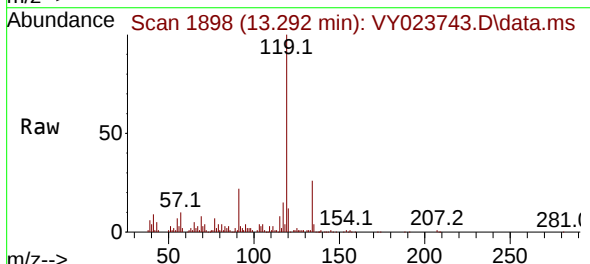
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-01-11072025

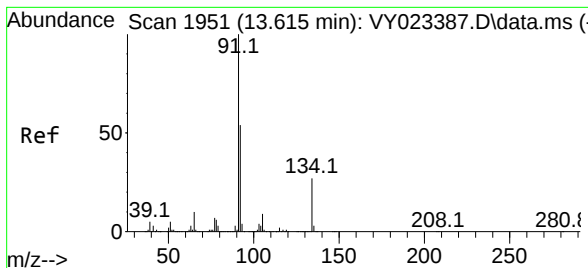
Tgt Ion:105 Resp: 108401
 Ion Ratio Lower Upper
 105 100
 120 47.9 23.8 71.2



#86
 p-Isopropyltoluene
 Concen: 1.760 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. 0.006 min
 Lab File: VY023743.D
 Acq: 11 Nov 2025 16:24

Tgt Ion:119 Resp: 52110
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.6 40.7
 91 21.5 10.9 32.9





#89

n-Butylbenzene

Concen: 4.763 ug/l

RT: 13.584 min Scan# 1946

Delta R.T. -0.030 min

Lab File: VY023743.D

Acq: 11 Nov 2025 16:24

Instrument :

MSVOA_Y

ClientSampleId :

TR-01-11072025

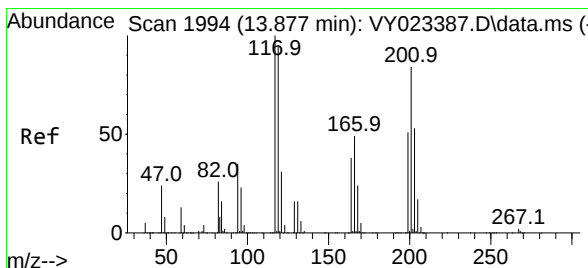
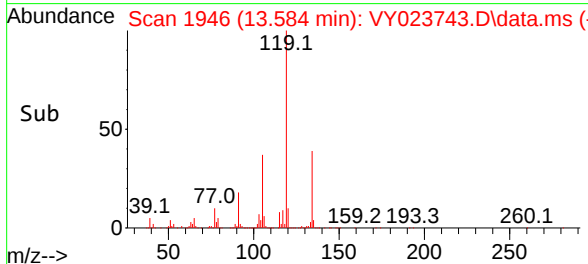
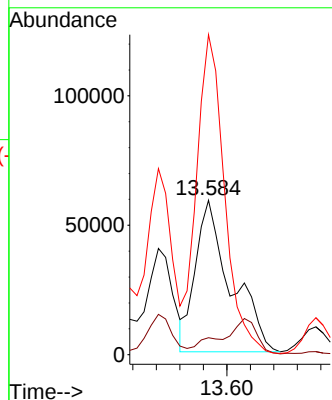
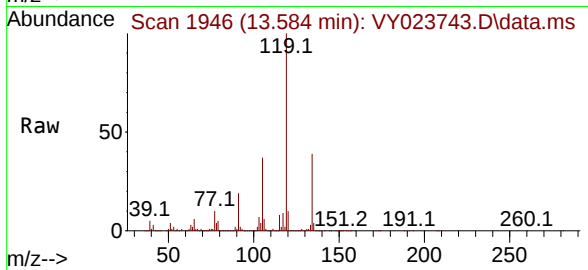
Tgt Ion: 91 Resp: 122870

Ion Ratio Lower Upper

91 100

92 0.0 27.0 80.8#

134 165.7 14.1 42.2#



#90

Hexachloroethane

Concen: 6.812 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.012 min

Lab File: VY023743.D

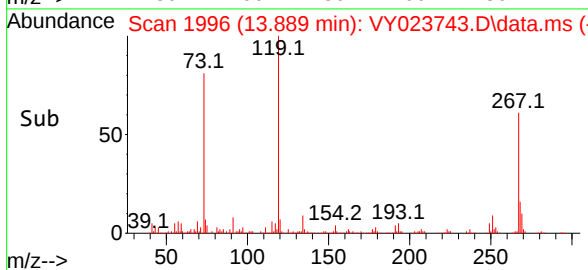
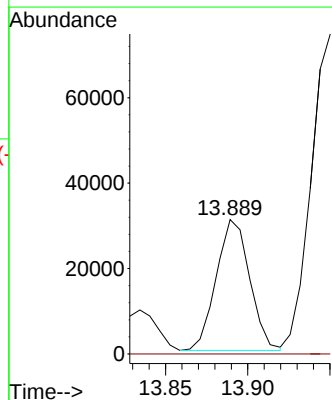
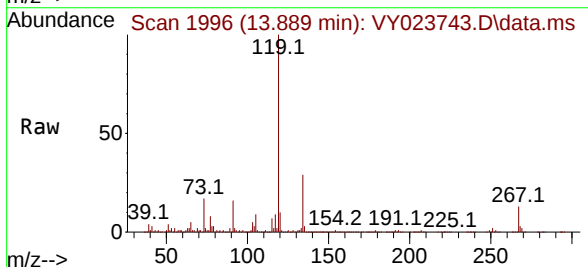
Acq: 11 Nov 2025 16:24

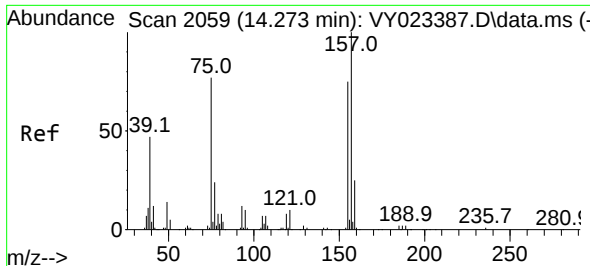
Tgt Ion: 117 Resp: 43382

Ion Ratio Lower Upper

117 100

201 0.0 43.8 131.4#

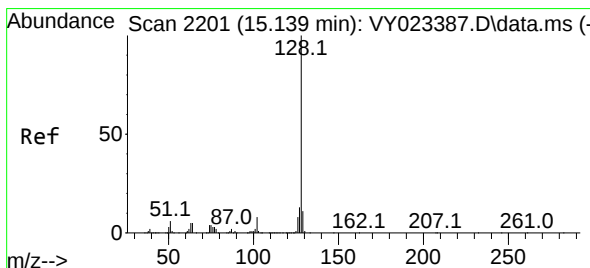
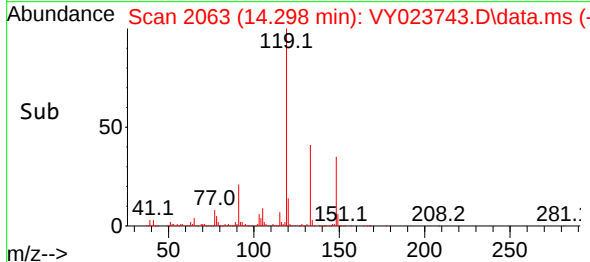
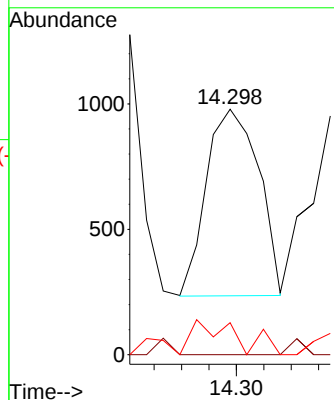
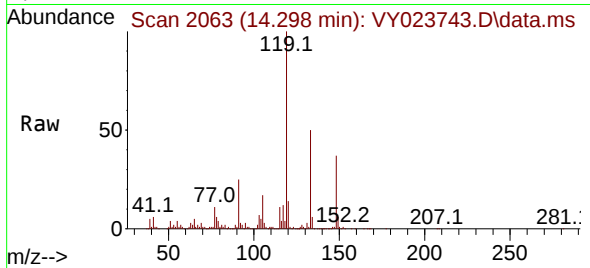




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.134 ug/l
RT: 14.298 min Scan# 2059
Delta R.T. 0.025 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Instrument :
MSVOA_Y
ClientSampleId :
TR-01-11072025

Tgt Ion: 75 Resp: 989
Ion Ratio Lower Upper
75 100
155 0.0 50.0 150.0#
157 0.0 63.8 191.5#



#95
Naphthalene
Concen: 1.336 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. 0.000 min
Lab File: VY023743.D
Acq: 11 Nov 2025 16:24

Tgt Ion: 128 Resp: 19565
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.9 13.3#

