

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101525\
 Data File : VL043118.D
 Acq On : 15 Oct 2025 11:39
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Oct 16 01:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Oct 15 02:12:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

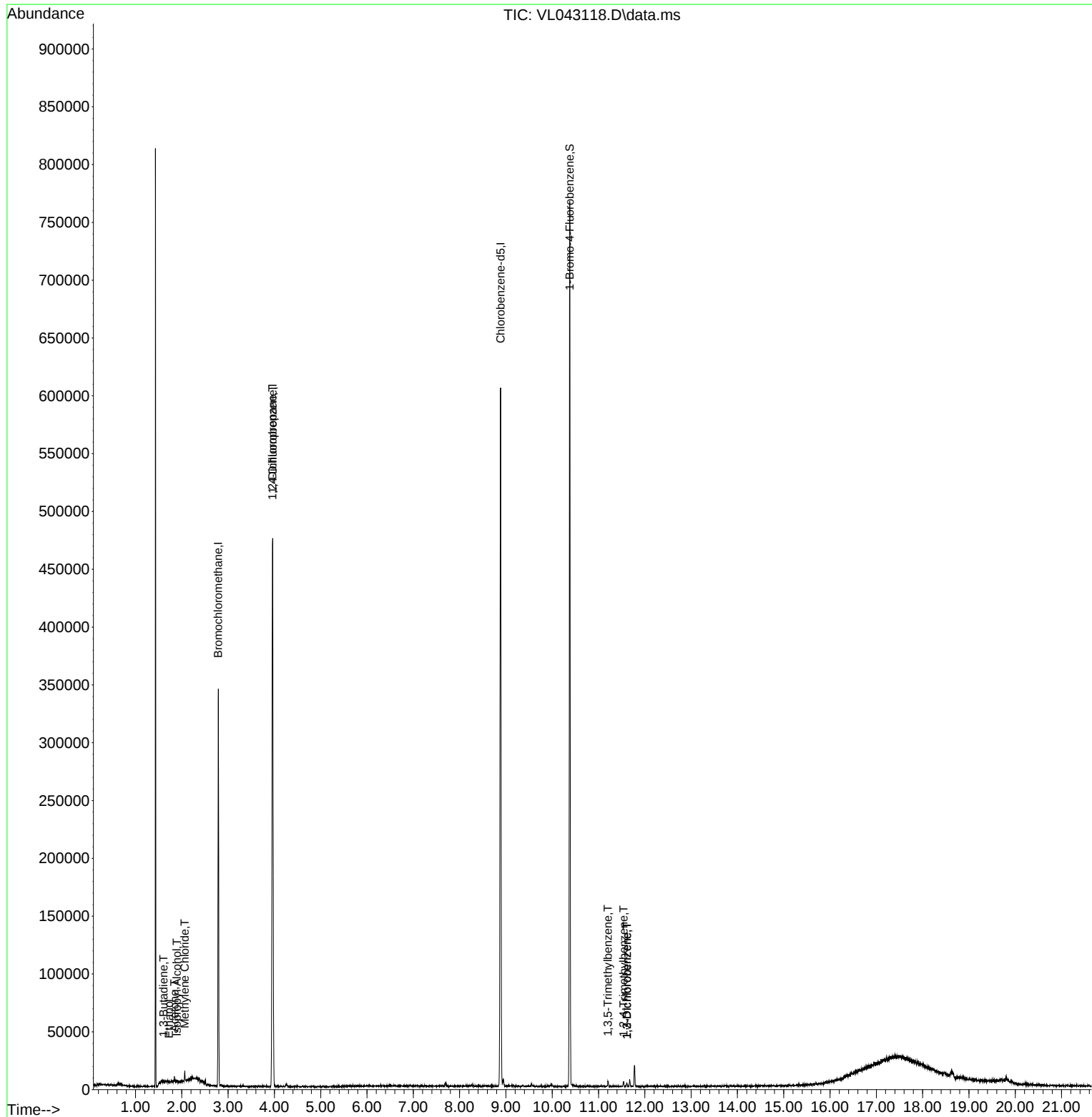
Internal Standards						
1) Bromochloromethane	2.787	49	90815	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	293345	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	256803	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	203144	10.177	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	113	0.049	ppbv #	38
15) Acetone	1.839	43	1797	0.147	ppbv #	79
16) 1,3-Butadiene	1.606	39	236	0.040	ppbv #	35
19) Isopropyl Alcohol	1.894	45	426	0.056	ppbv #	36
20) Methylene Chloride	2.062	84	1442	0.298	ppbv	95
39) 1,2-Dichloropropane	3.959	63	73280	7.255	ppbv #	24
73) 1,3,5-Trimethylbenzene	11.202	105	1755	0.050	ppbv	93
74) 1,2,4-Trimethylbenzene	11.542	105	1573	0.040	ppbv #	45
75) 1,3-Dichlorobenzene	11.610	146	744	0.033	ppbv	93
77) 1,2-Dichlorobenzene	11.610	146	744	0.034	ppbv	92

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

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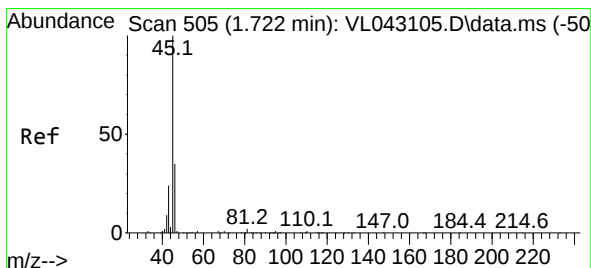
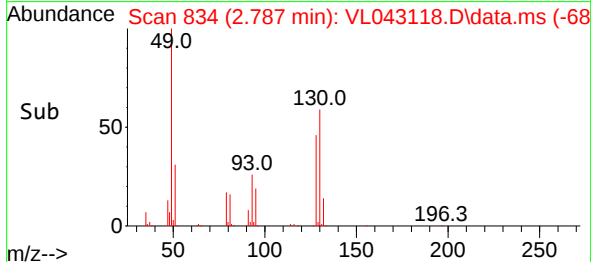
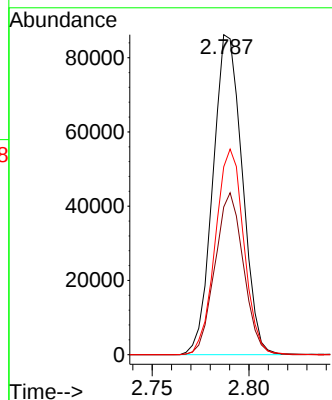
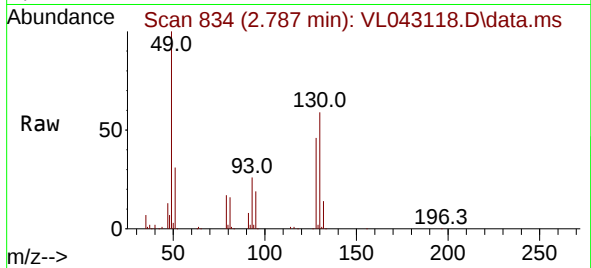




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

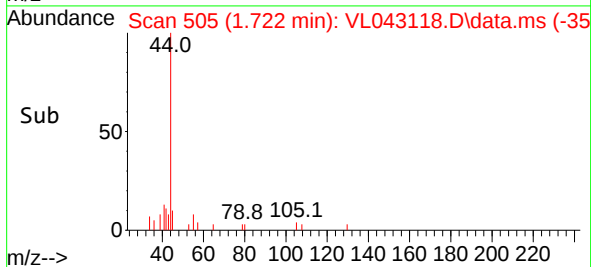
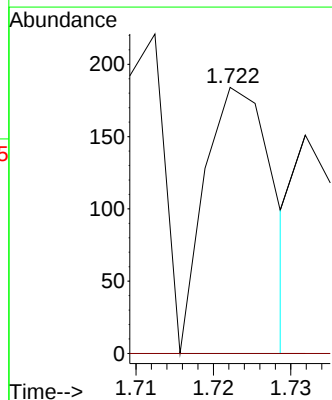
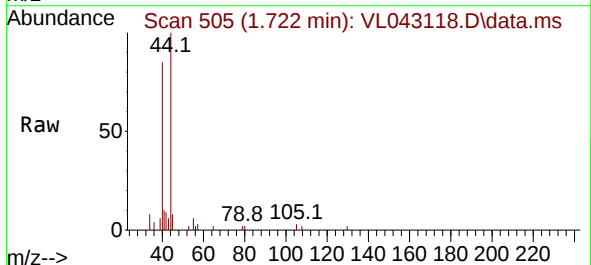
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

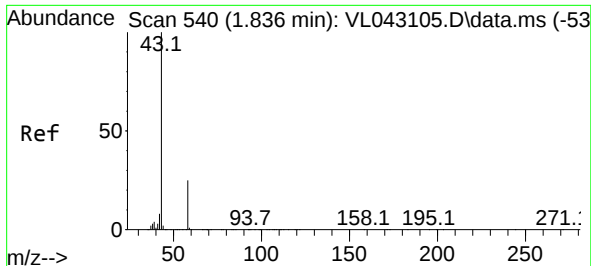
Tgt Ion: 49 Resp: 90815
Ion Ratio Lower Upper
49 100
128 49.2 24.4 73.4
130 62.5 31.0 93.0



#13
Ethanol
Concen: 0.049 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion: 45 Resp: 113
Ion Ratio Lower Upper
45 100
46 0.0 14.7 58.9#

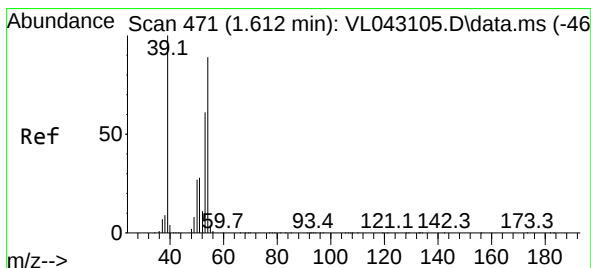
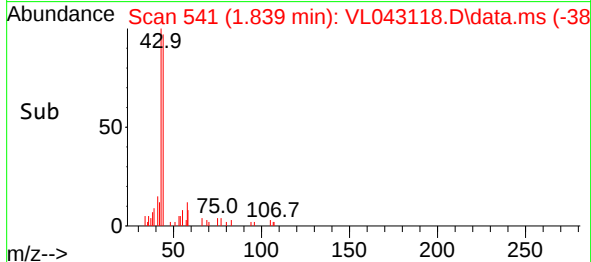
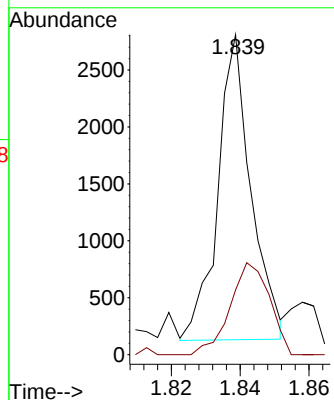
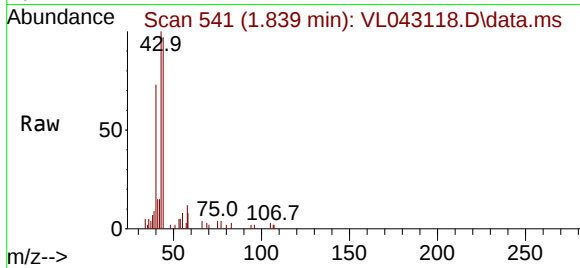




#15
Acetone
Concen: 0.147 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

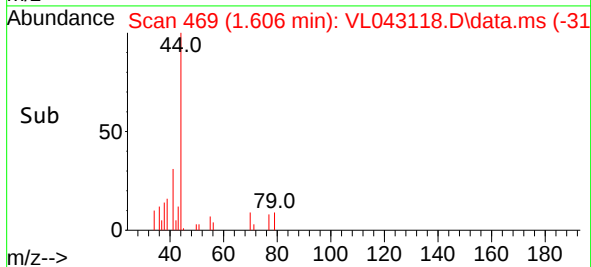
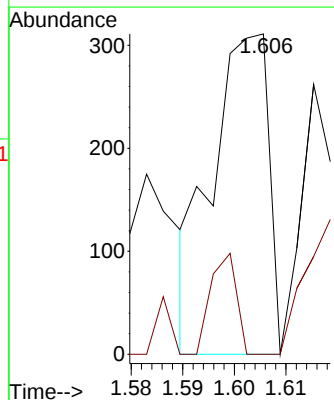
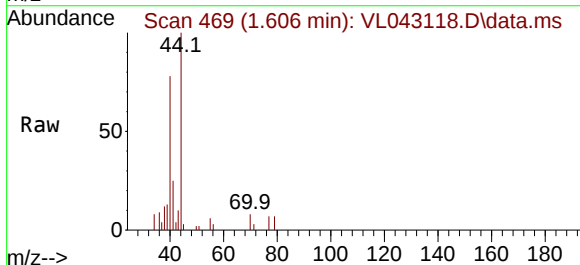
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

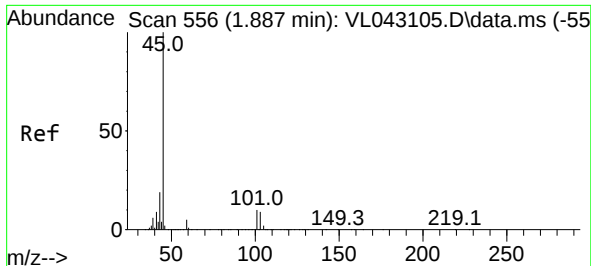
Tgt Ion: 43 Resp: 1797
Ion Ratio Lower Upper
43 100
58 36.5 20.8 31.2#



#16
1,3-Butadiene
Concen: 0.040 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.007 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion: 39 Resp: 236
Ion Ratio Lower Upper
39 100
54 19.1 59.0 88.4#

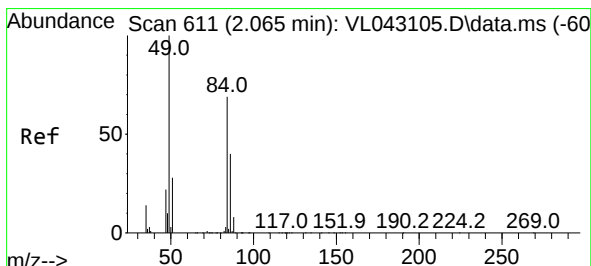
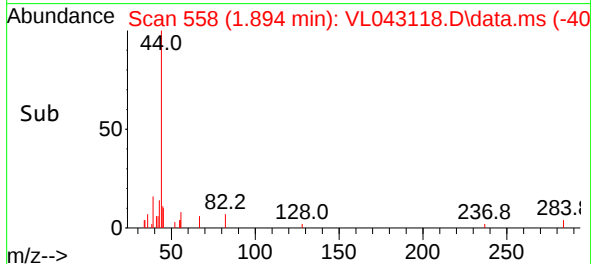
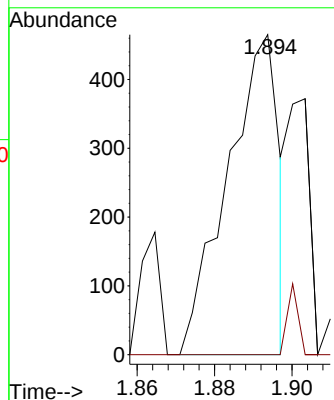
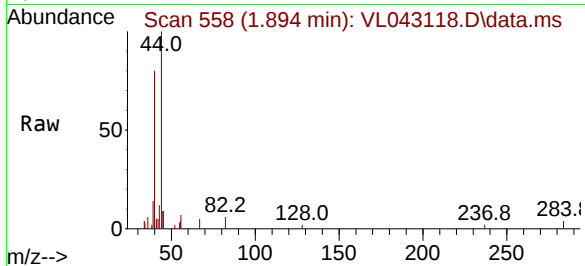




#19
Isopropyl Alcohol
Concen: 0.056 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

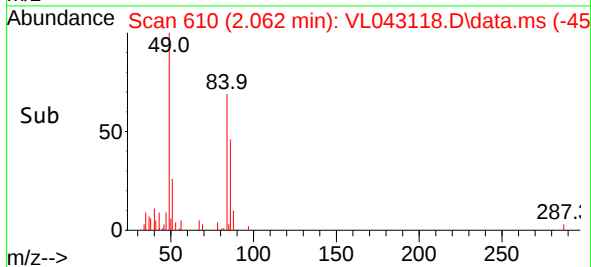
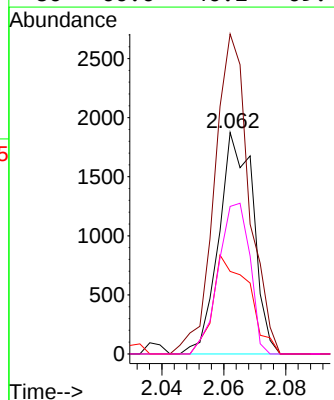
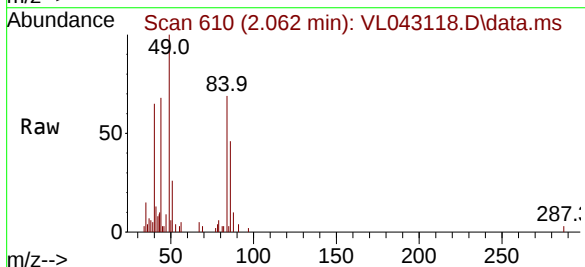
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

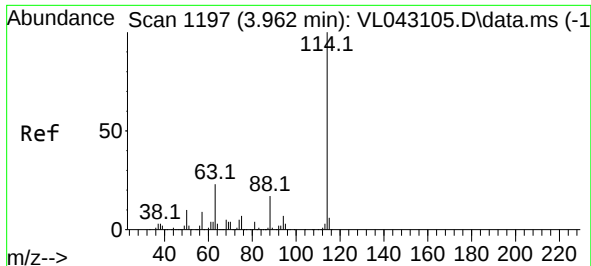
Tgt Ion: 45 Resp: 426
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9#



#20
Methylene Chloride
Concen: 0.298 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion: 84 Resp: 1442
Ion Ratio Lower Upper
84 100
49 144.5 116.6 175.0
51 37.3 34.8 52.2
86 66.6 46.2 69.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043118.D

Acq: 15 Oct 2025 11:39

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

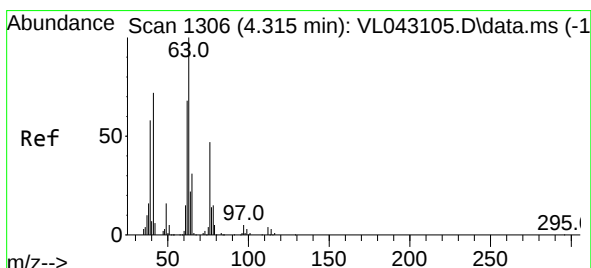
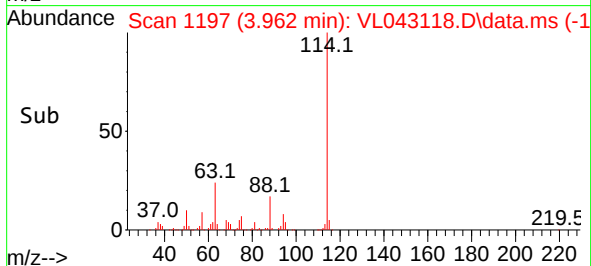
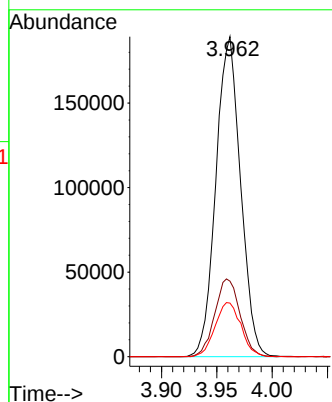
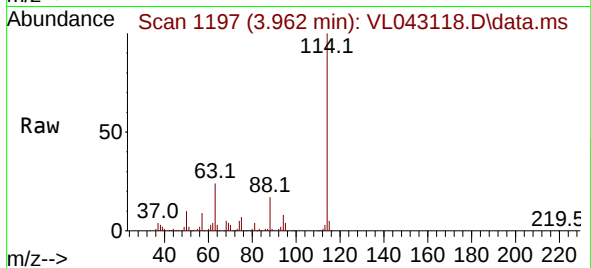
Tgt Ion:114 Resp: 293345

Ion Ratio Lower Upper

114 100

63 25.0 19.3 28.9

88 17.7 13.9 20.9



#39

1,2-Dichloropropane

Concen: 7.255 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.356 min

Lab File: VL043118.D

Acq: 15 Oct 2025 11:39

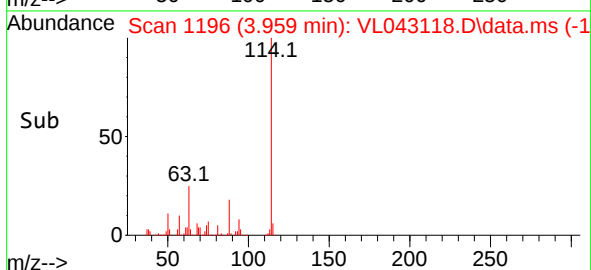
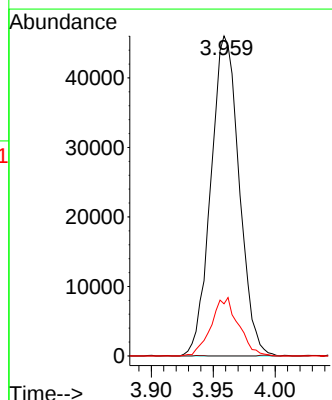
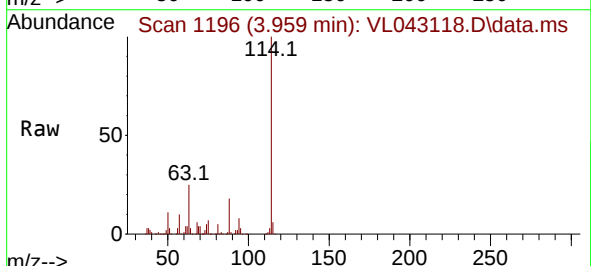
Tgt Ion: 63 Resp: 73280

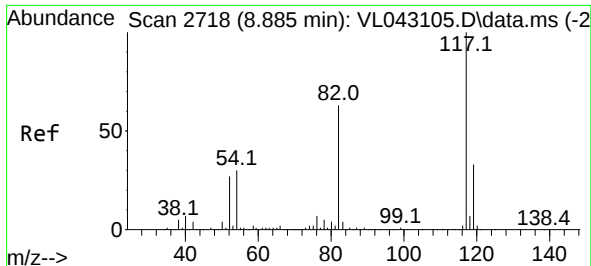
Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

62 16.3 54.7 82.1#

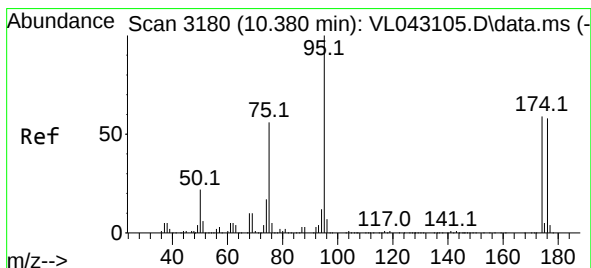
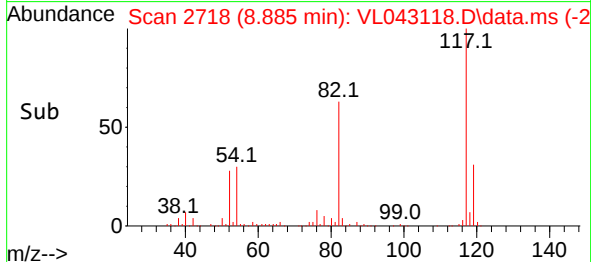
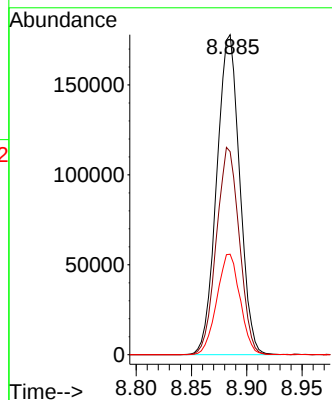
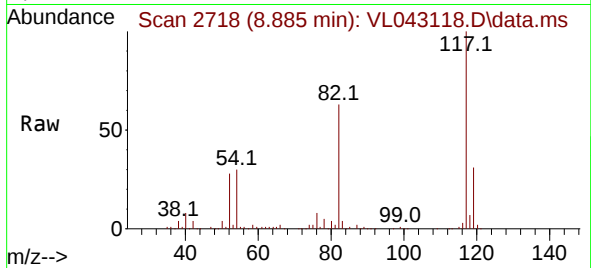




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

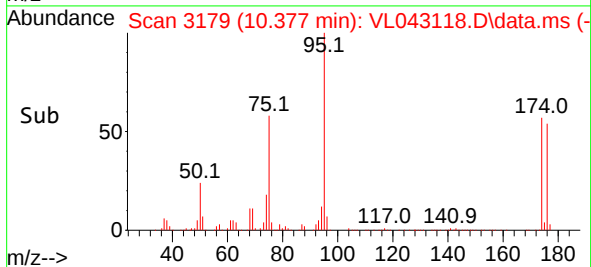
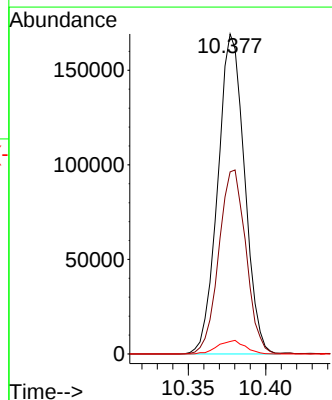
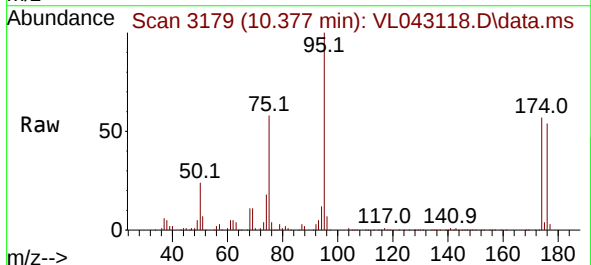
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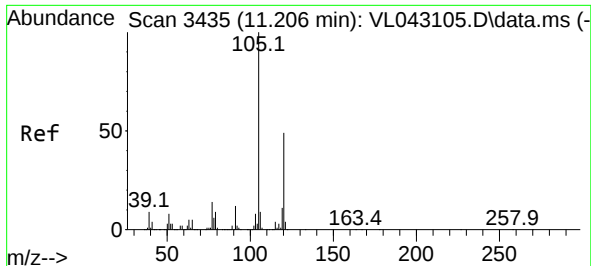
Tgt Ion:117 Resp: 256803
Ion Ratio Lower Upper
117 100
82 64.8 53.8 80.8
119 31.9 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.177 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion: 95 Resp: 203144
Ion Ratio Lower Upper
95 100
174 58.6 48.3 72.5
175 4.3 3.8 5.8

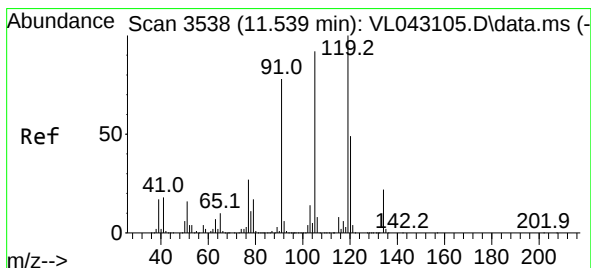
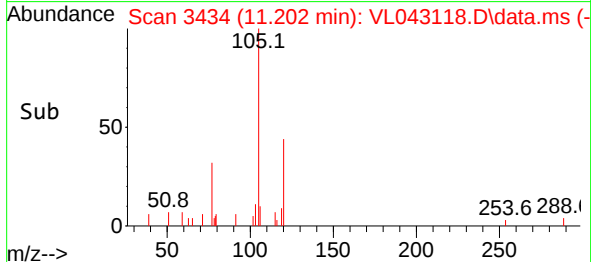
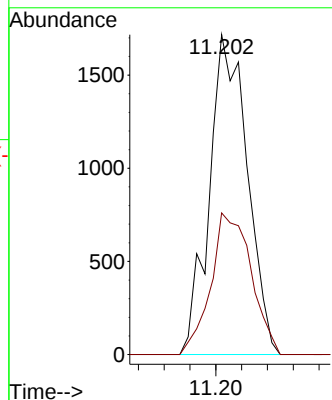
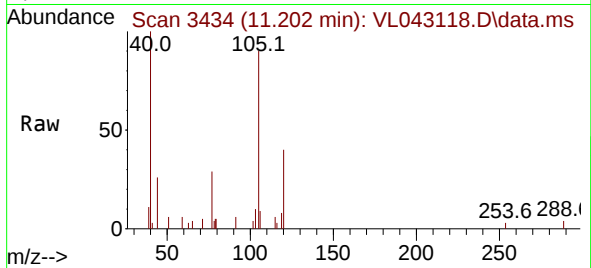




#73
1,3,5-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

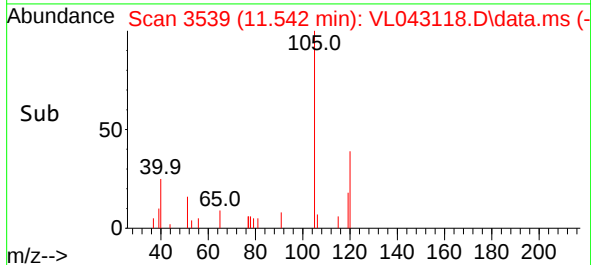
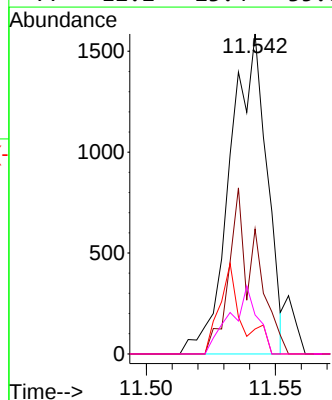
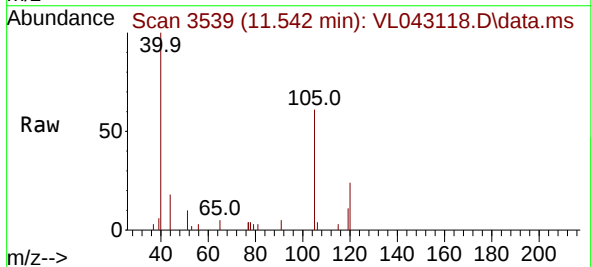
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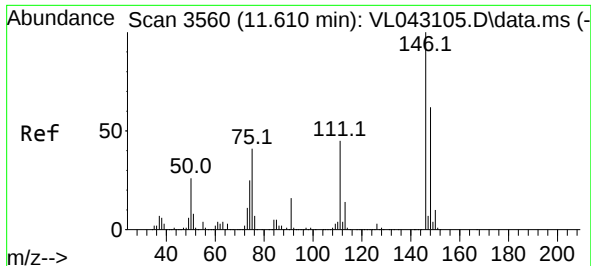
Tgt Ion:105 Resp: 1755
Ion Ratio Lower Upper
105 100
120 44.3 39.0 58.6



#74
1,2,4-Trimethylbenzene
Concen: 0.040 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion:105 Resp: 1573
Ion Ratio Lower Upper
105 100
120 39.0 42.8 64.2#
91 7.8 68.3 102.5#
77 12.2 23.4 35.0#

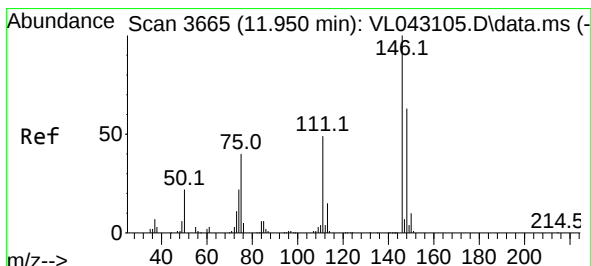
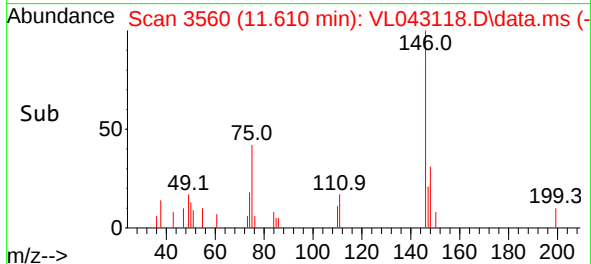
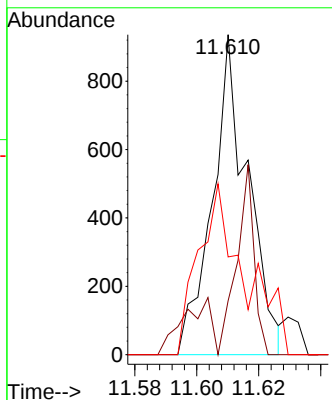
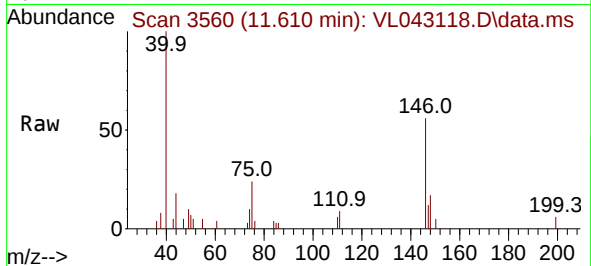




#75
1,3-Dichlorobenzene
Concen: 0.033 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.000 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion:146 Resp: 744
Ion Ratio Lower Upper
146 100
111 43.3 23.3 69.9
148 69.4 31.6 95.0



#77
1,2-Dichlorobenzene
Concen: 0.034 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.340 min
Lab File: VL043118.D
Acq: 15 Oct 2025 11:39

Tgt Ion:146 Resp: 744
Ion Ratio Lower Upper
146 100
111 43.3 24.0 72.0
148 69.4 31.1 93.3

