

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
 Data File : VL043293.D
 Acq On : 02 Dec 2025 10:19
 Operator : SY/MD
 Sample : VL1202ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1202ABL01

Quant Time: Dec 03 00:04:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	125081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	325973	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	249315	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	171944	9.409	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Ethanol	1.728	45	175	0.068	ppbv #	1
15) Acetone	1.839	43	3012	0.173	ppbv #	68
16) 1,3-Butadiene	1.605	39	314	0.041	ppbv #	12
19) Isopropyl Alcohol	1.894	45	477	0.049	ppbv #	56
20) Methylene Chloride	2.065	84	3898	Below Cal		83
23) Vinyl Acetate	2.460	43	783	0.037	ppbv #	1
34) 2-Butanone	2.564	43	916	0.040	ppbv #	88
39) 1,2-Dichloropropane	3.962	63	82556	7.226	ppbv #	23

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

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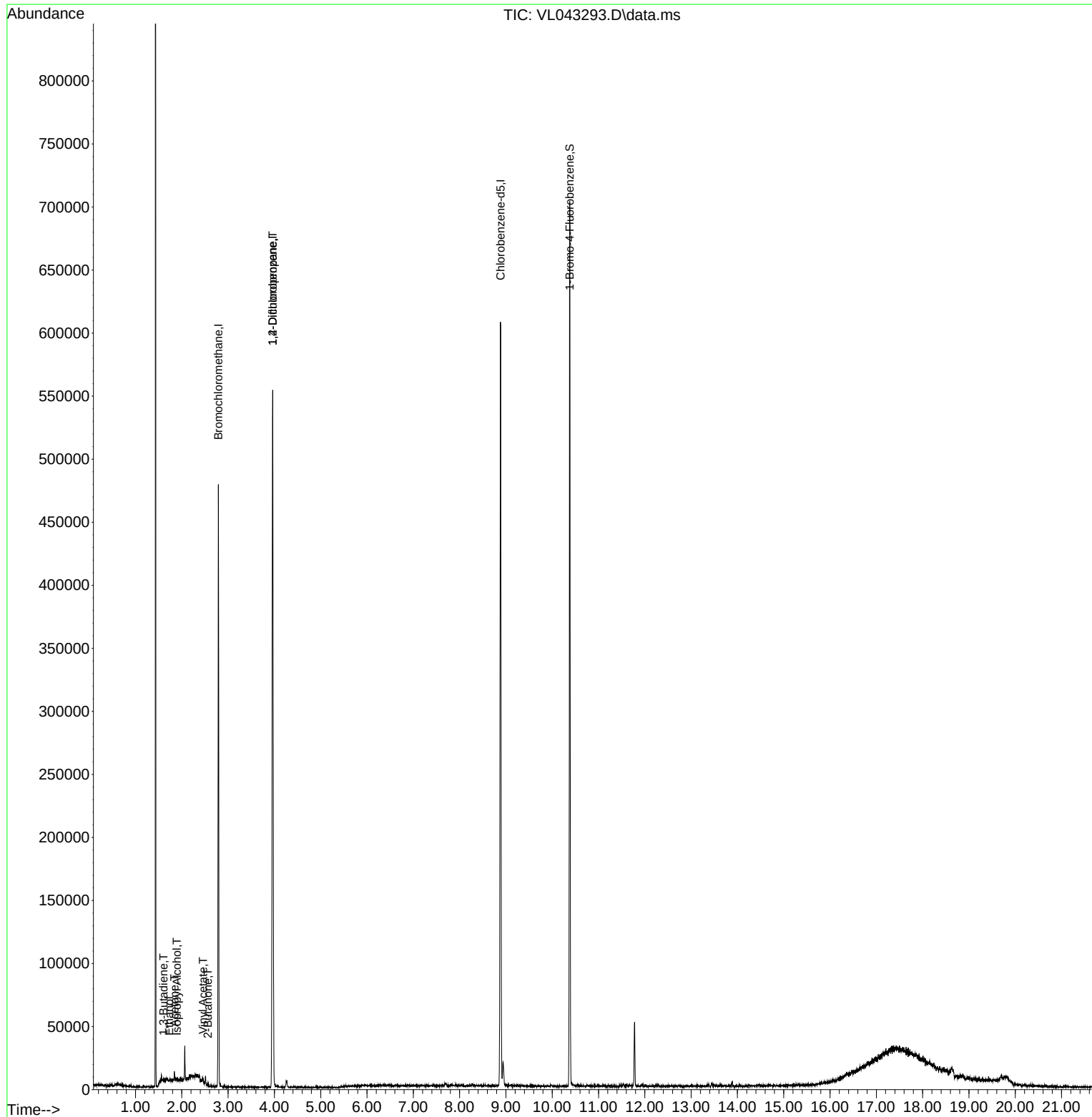
Quant Time: Dec 03 00:04:47 2025

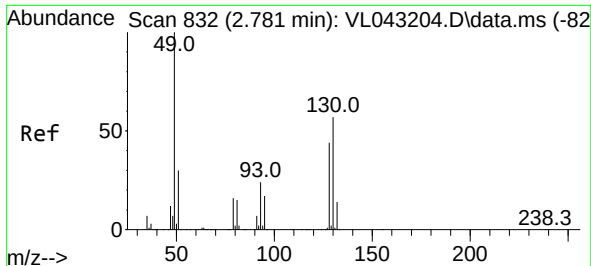
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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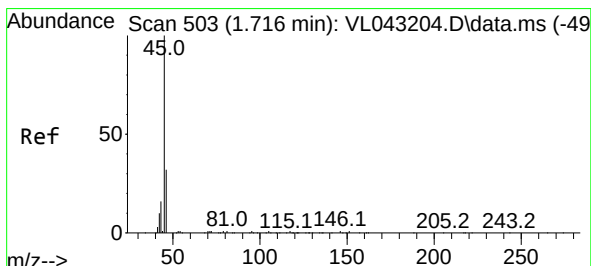
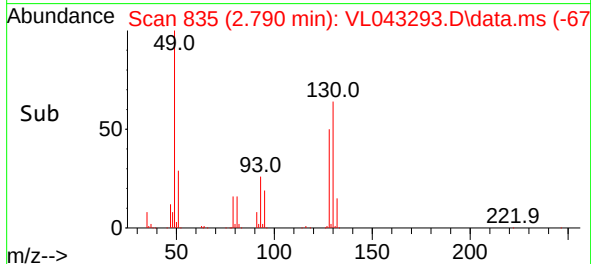
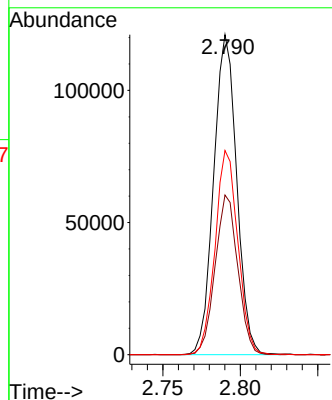
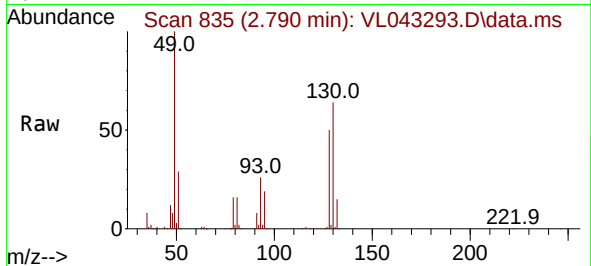




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

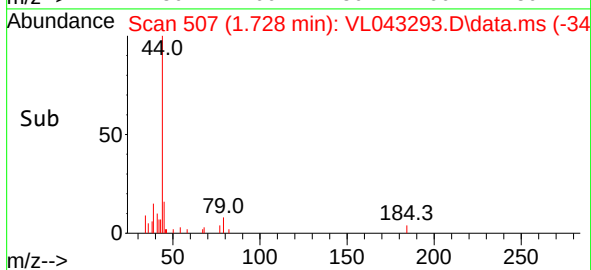
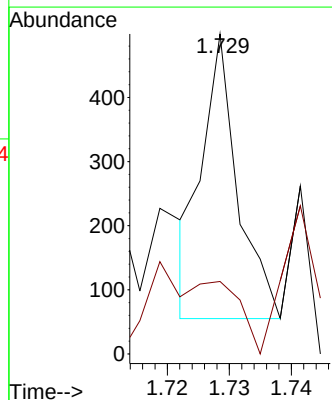
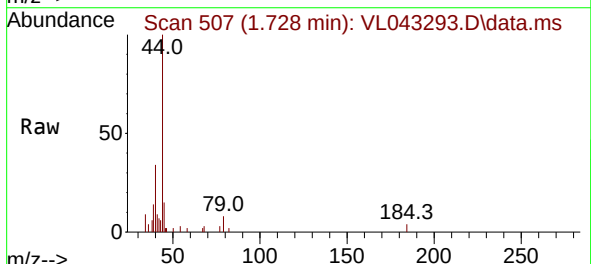
Instrument :
MSVOA_L
ClientSampleId :
VL1202ABL01

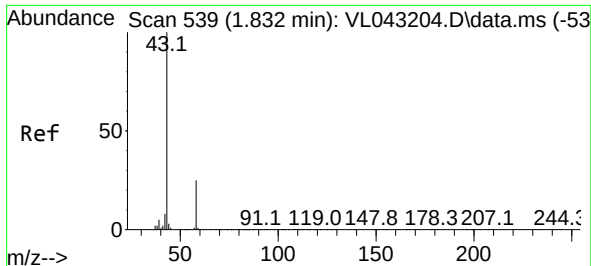
Tgt Ion: 49 Resp: 125081
Ion Ratio Lower Upper
49 100
128 49.2 23.0 69.0
130 63.3 29.9 89.7



#13
Ethanol
Concen: 0.068 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.013 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

Tgt Ion: 45 Resp: 175
Ion Ratio Lower Upper
45 100
46 122.9 15.0 59.8#

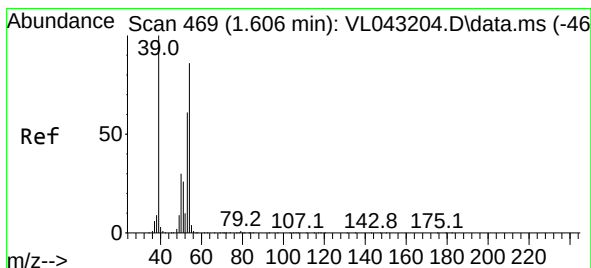
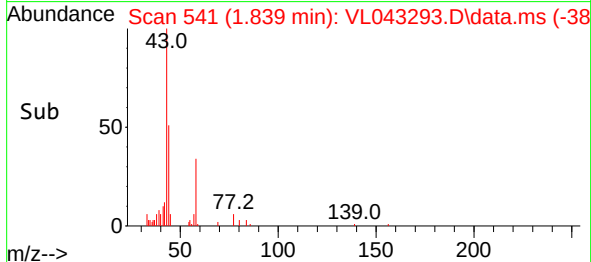
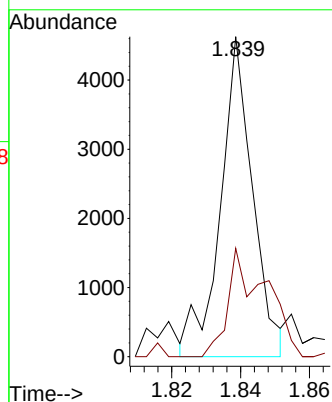
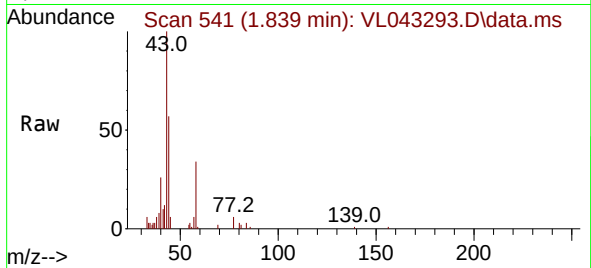




#15
Acetone
Concen: 0.173 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

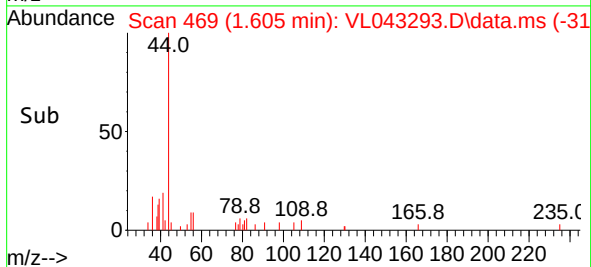
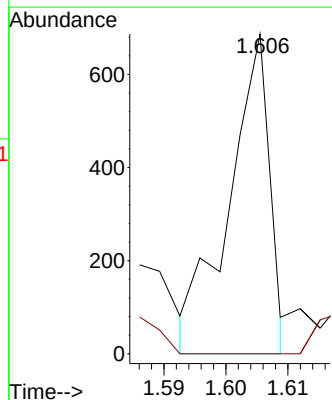
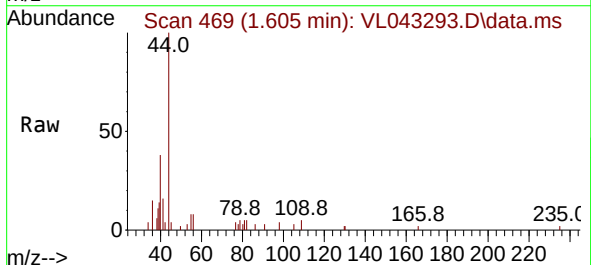
Instrument :
MSVOA_1
ClientSampleId :
VL1202ABL01

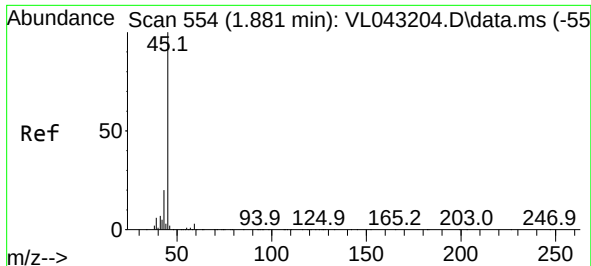
Tgt Ion: 43 Resp: 3012
Ion Ratio Lower Upper
43 100
58 42.1 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.041 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

Tgt Ion: 39 Resp: 314
Ion Ratio Lower Upper
39 100
54 0.0 59.4 89.2#

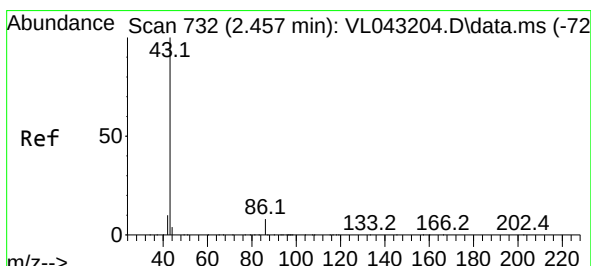
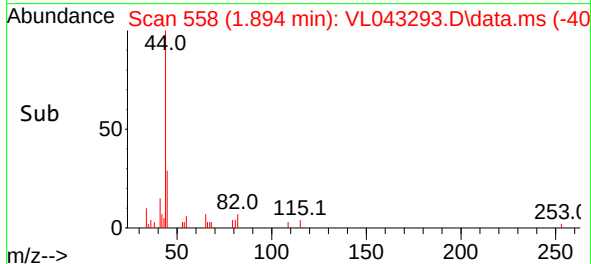
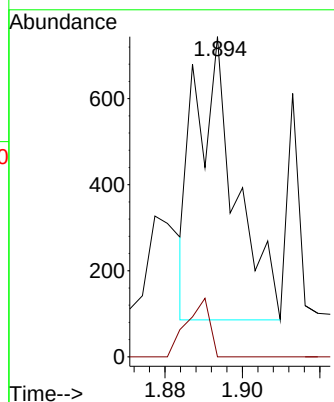
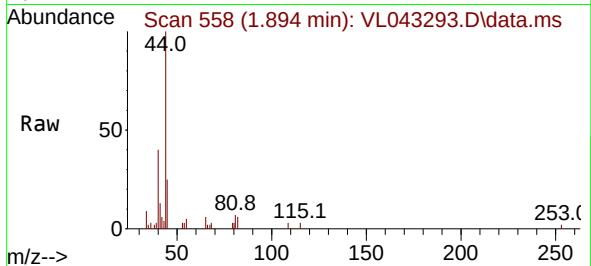




#19
Isopropyl Alcohol
Concen: 0.049 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

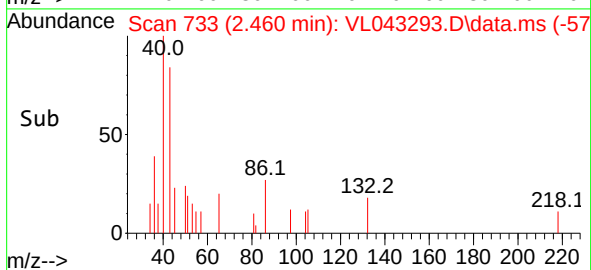
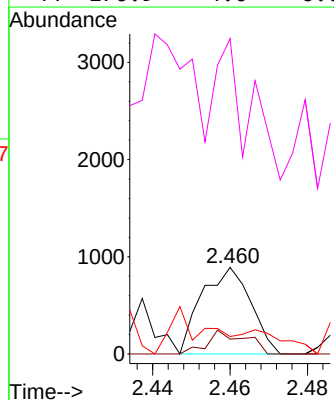
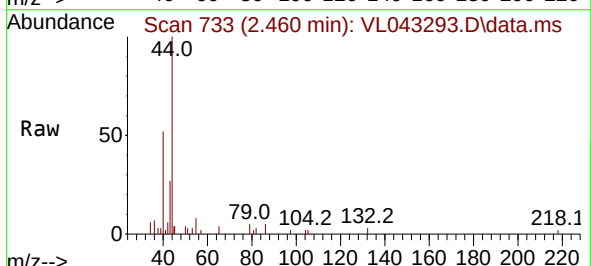
Instrument :
MSVOA_1
ClientSampleId :
VL1202ABL01

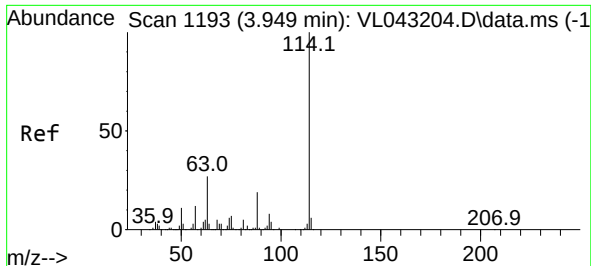
Tgt Ion: 45 Resp: 477
Ion Ratio Lower Upper
45 100
58 11.9 31.3 46.9#



#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 2.460 min Scan# 733
Delta R.T. 0.003 min
Lab File: VL043293.D
Acq: 02 Dec 2025 10:19

Tgt Ion: 43 Resp: 783
Ion Ratio Lower Upper
43 100
86 17.2 6.2 9.2#
42 4.9 8.0 12.0#
44 176.9 4.0 6.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL043293.D

Acq: 02 Dec 2025 10:19

Instrument :

MSVOA_L

ClientSampleId :

VL1202ABL01

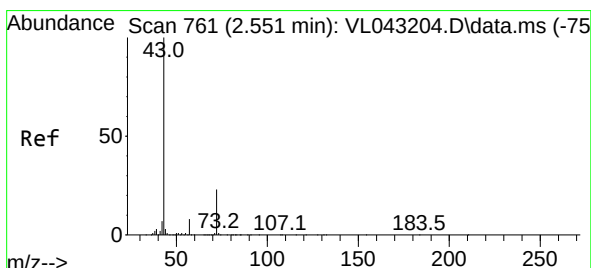
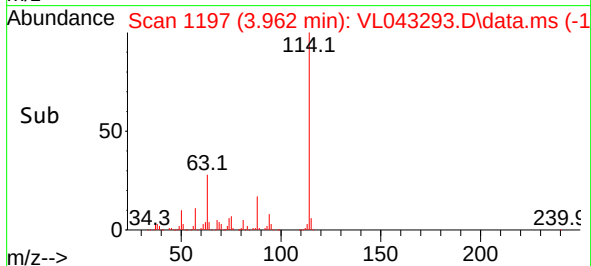
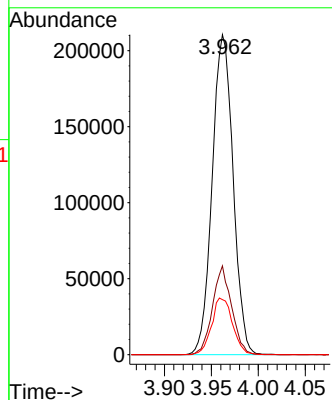
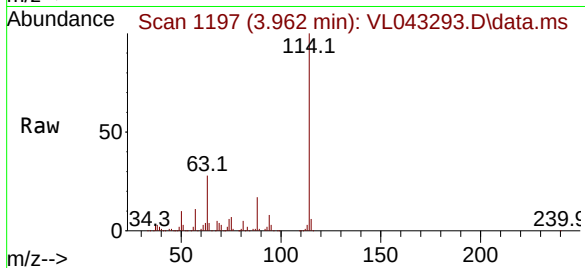
Tgt Ion:114 Resp: 325973

Ion Ratio Lower Upper

114 100

63 25.4 21.0 31.6

88 17.7 14.9 22.3



#34

2-Butanone

Concen: 0.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.013 min

Lab File: VL043293.D

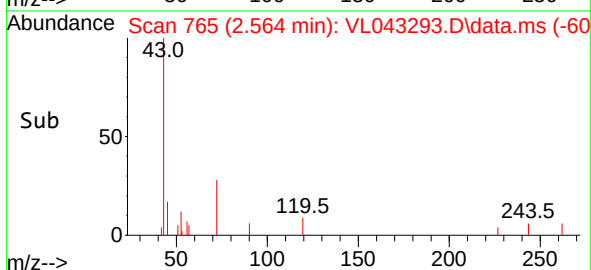
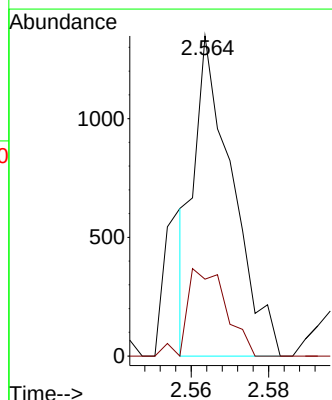
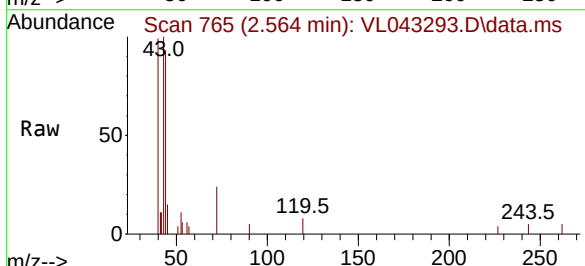
Acq: 02 Dec 2025 10:19

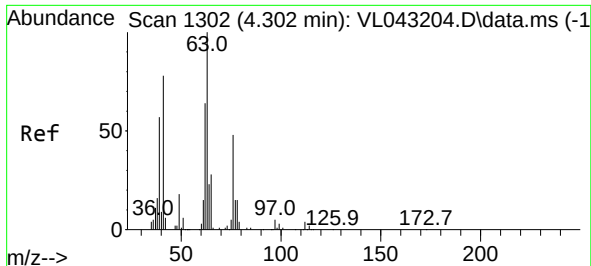
Tgt Ion: 43 Resp: 916

Ion Ratio Lower Upper

43 100

72 28.3 18.1 27.1#





#39

1,2-Dichloropropane

Concen: 7.226 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.340 min

Lab File: VL043293.D

Acq: 02 Dec 2025 10:19

Instrument :

MSVOA_L

ClientSampleId :

VL1202ABL01

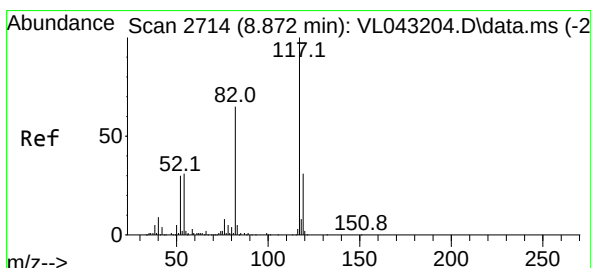
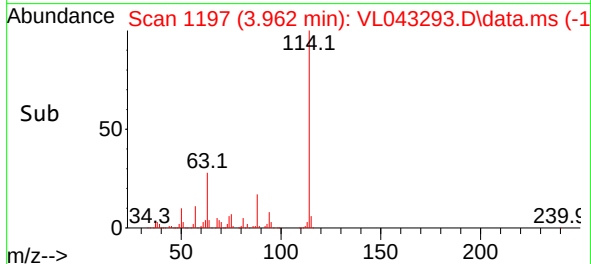
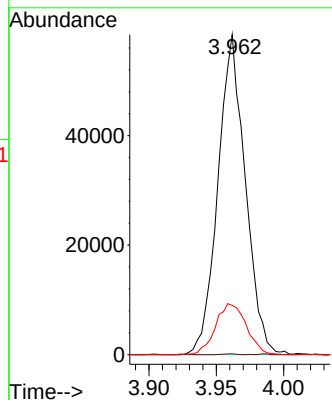
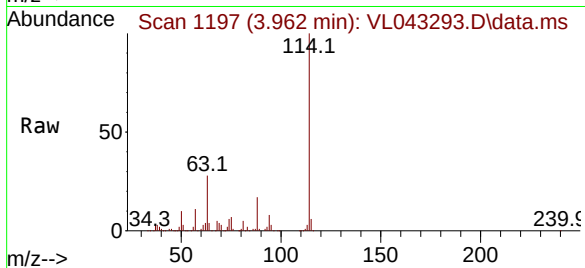
Tgt Ion: 63 Resp: 82556

Ion Ratio Lower Upper

63 100

41 0.3 62.6 93.8#

62 15.3 51.0 76.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.013 min

Lab File: VL043293.D

Acq: 02 Dec 2025 10:19

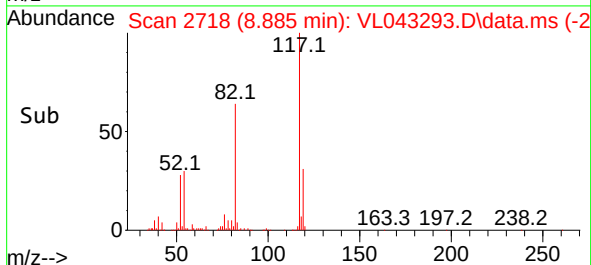
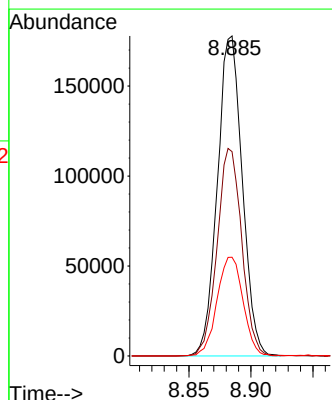
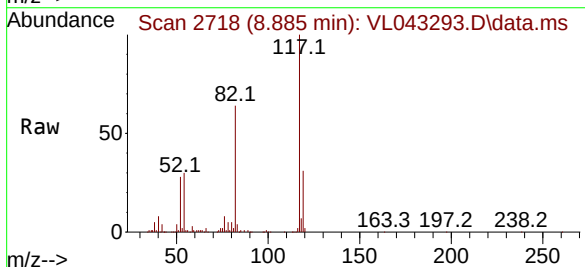
Tgt Ion: 117 Resp: 249315

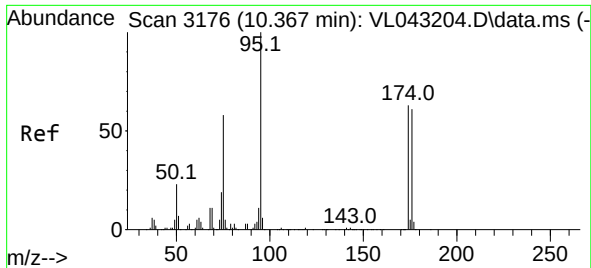
Ion Ratio Lower Upper

117 100

82 64.2 56.1 84.1

119 32.5 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.409 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.009 min
 Lab File: VL043293.D
 Acq: 02 Dec 2025 10:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1202ABL01

Tgt Ion: 95 Resp: 171944
 Ion Ratio Lower Upper
 95 100
 174 66.8 50.2 75.2
 175 5.2 4.1 6.1

