

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042563.D
 Acq On : 21 May 2025 13:40
 Operator : SY/MD
 Sample : QC051225 CAN 10401
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051225 CAN 10401

Quant Time: May 21 22:55:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 21 00:21:29 2025
 Response via : Initial Calibration

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

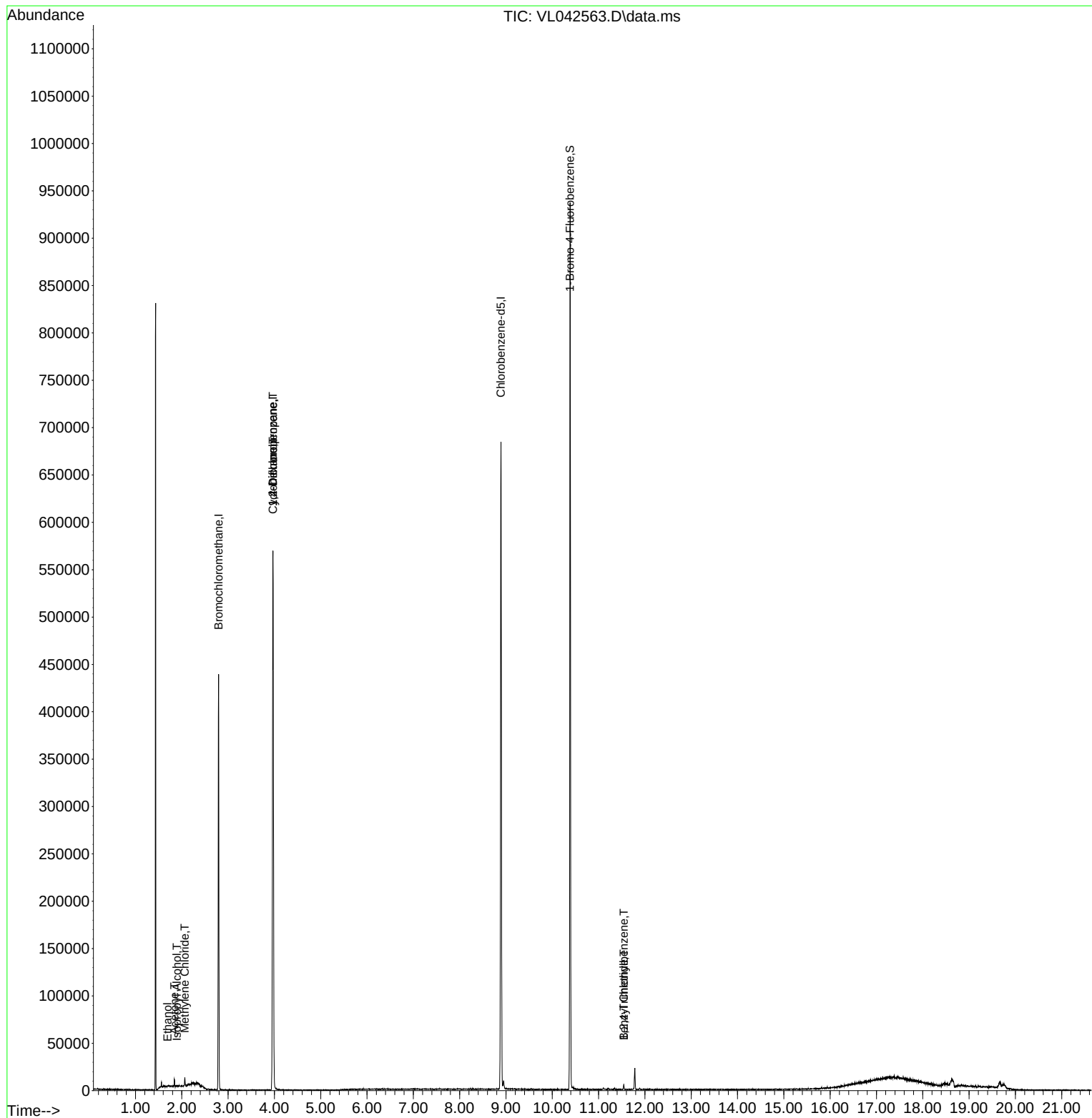
Internal Standards						
1) Bromochloromethane	2.794	49	106729	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	327503	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	278236	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	221132	9.930	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
13) Ethanol	1.693	45	111	0.134	ppbv #	37
15) Acetone	1.839	43	3085	0.207	ppbv	91
19) Isopropyl Alcohol	1.894	45	323	0.038	ppbv #	1
20) Methylene Chloride	2.066	84	1465	0.203	ppbv #	89
30) Cyclohexane	3.965	84	2311	0.205	ppbv #	1
39) 1,2-Dichloropropane	3.969	63	77527	8.334	ppbv #	26
66) Benzyl Chloride	11.546	91	248	0.047	ppbv #	65
74) 1,2,4-Trimethylbenzene	11.542	105	1946	0.049	ppbv #	67

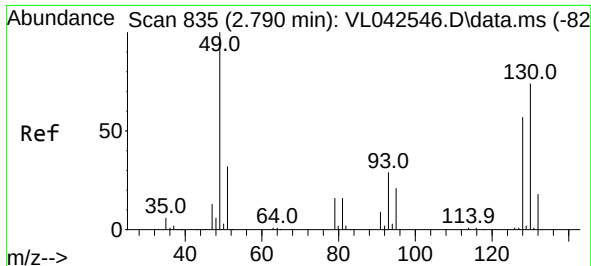
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.794 min Scan# 81

Delta R.T. 0.004 min

Lab File: VL042563.D

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ClientSampleId :

QC051225 CAN 10401

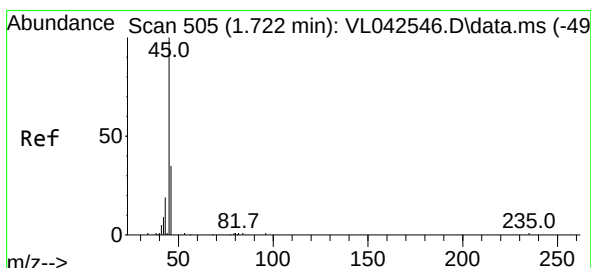
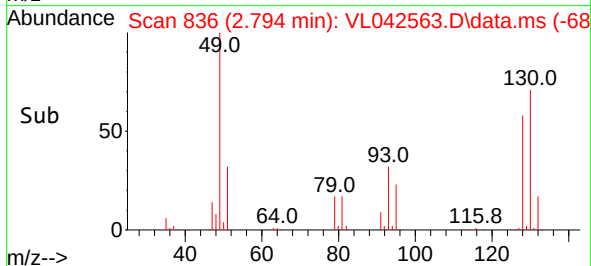
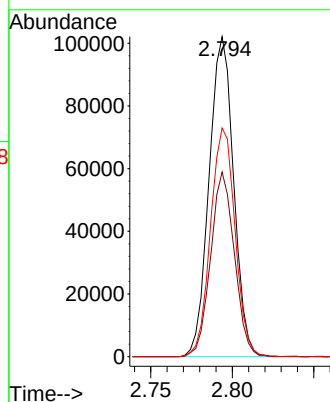
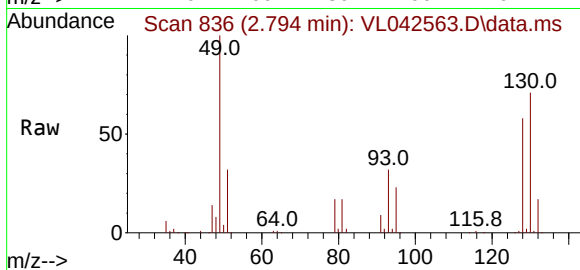
Tgt Ion: 49 Resp: 106729

Ion Ratio Lower Upper

49 100

128 55.8 28.6 85.8

130 71.6 36.6 109.8



#13

Ethanol

Concen: 0.134 ppbv

RT: 1.693 min Scan# 496

Delta R.T. -0.029 min

Lab File: VL042563.D

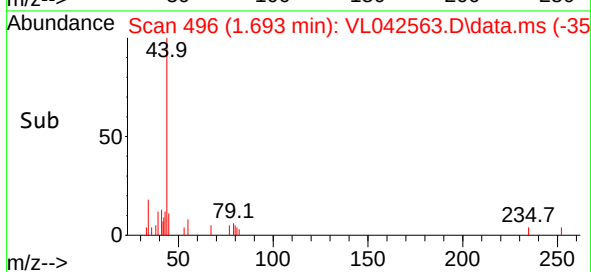
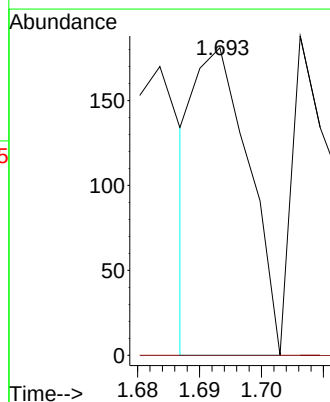
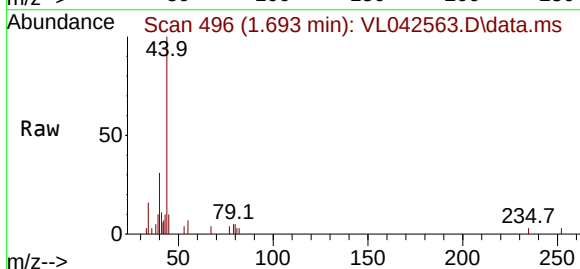
Acq: 21 May 2025 13:40

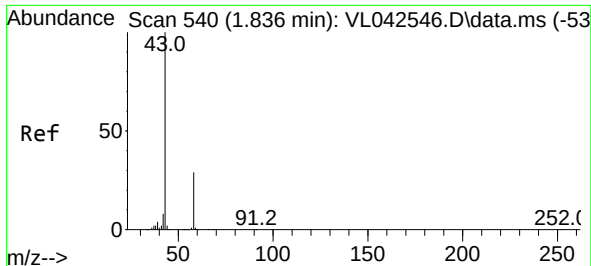
Tgt Ion: 45 Resp: 111

Ion Ratio Lower Upper

45 100

46 0.0 15.3 61.3#

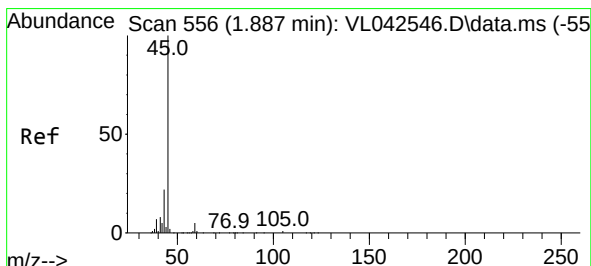
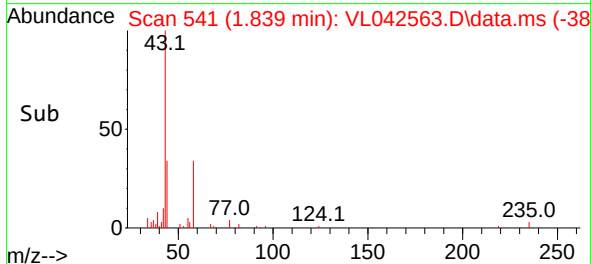
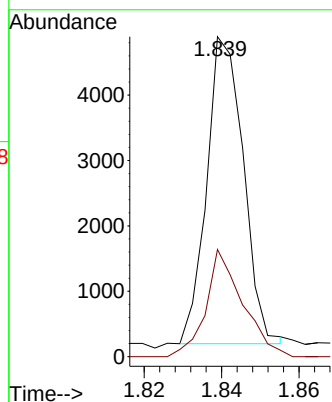
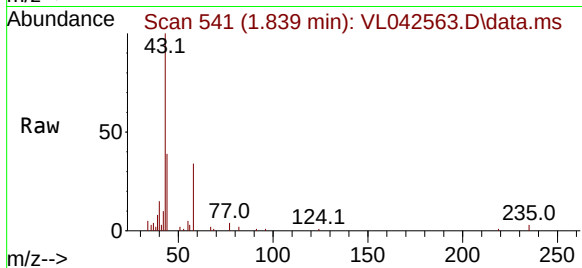




#15
Acetone
Concen: 0.207 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042563.D
Acq: 21 May 2025 13:40

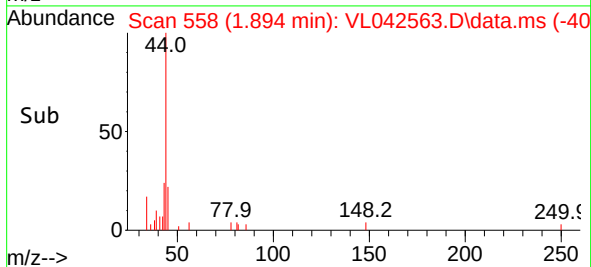
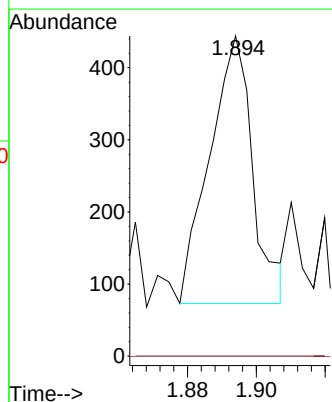
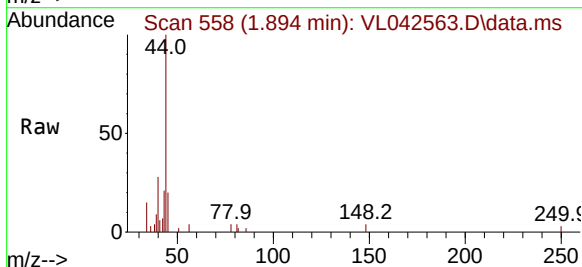
Instrument :
MSVOA_L
ClientSampleId :
QC051225 CAN 10401

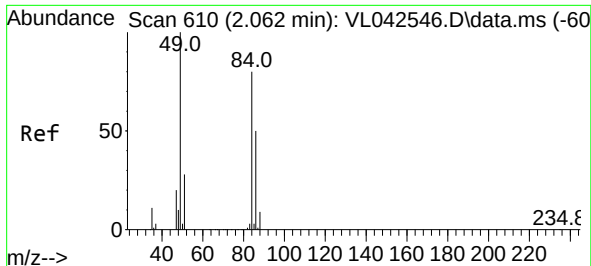
Tgt Ion: 43 Resp: 3085
Ion Ratio Lower Upper
43 100
58 34.8 24.2 36.2



#19
Isopropyl Alcohol
Concen: 0.038 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.007 min
Lab File: VL042563.D
Acq: 21 May 2025 13:40

Tgt Ion: 45 Resp: 323
Ion Ratio Lower Upper
45 100
58 332.5 35.3 52.9#





#20

Methylene Chloride

Concen: 0.203 ppbv

RT: 2.066 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042563.D

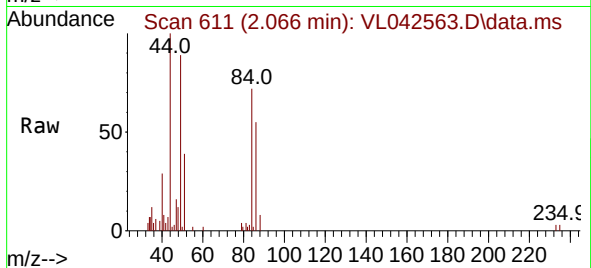
Acq: 21 May 2025 13:40

Instrument :

MSVOA_L

ClientSampleId :

QC051225 CAN 10401



Tgt Ion: 84 Resp: 1465

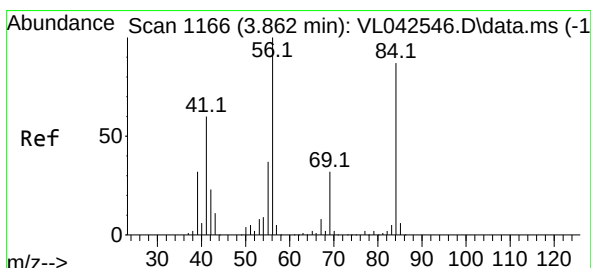
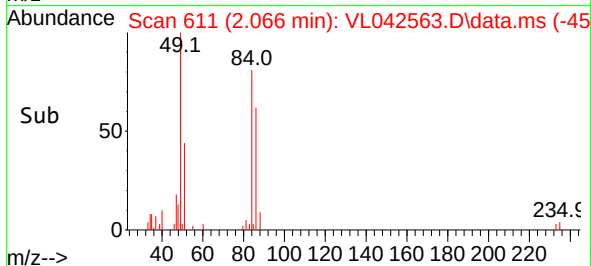
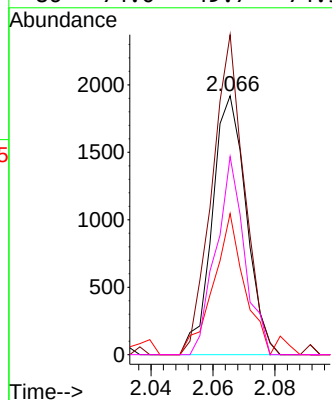
Ion Ratio Lower Upper

84 100

49 119.6 99.7 149.5

51 52.7 29.7 44.5#

86 74.0 49.7 74.5



#30

Cyclohexane

Concen: 0.205 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.104 min

Lab File: VL042563.D

Acq: 21 May 2025 13:40

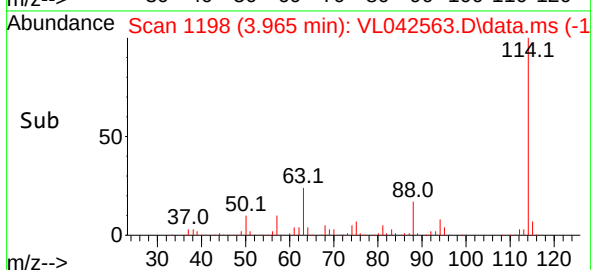
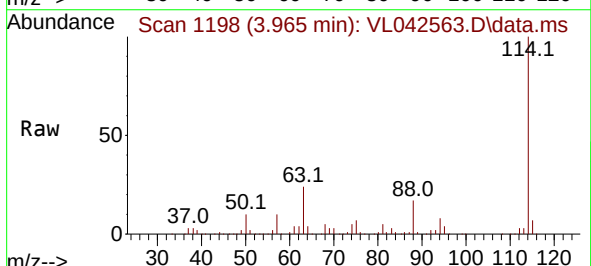
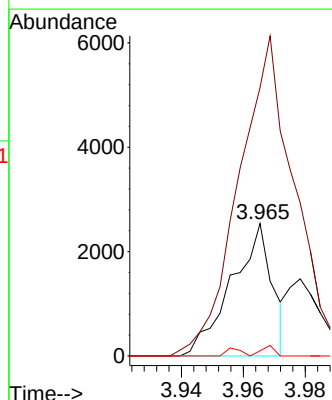
Tgt Ion: 84 Resp: 2311

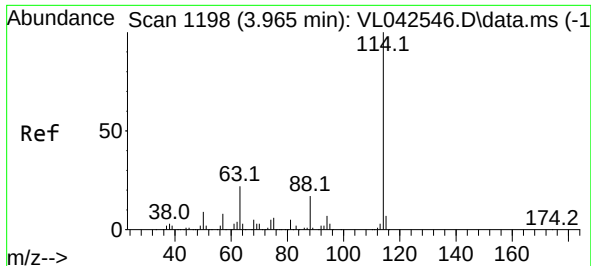
Ion Ratio Lower Upper

84 100

56 335.0 92.3 138.5#

41 4.7 57.0 85.4#

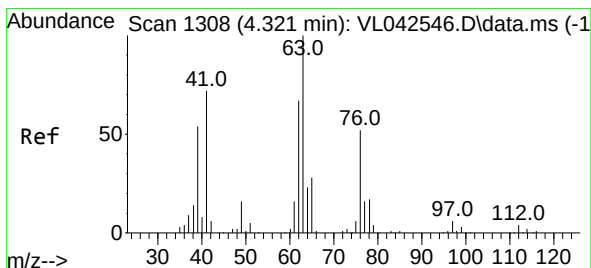
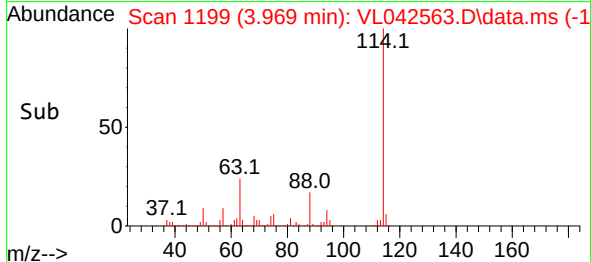
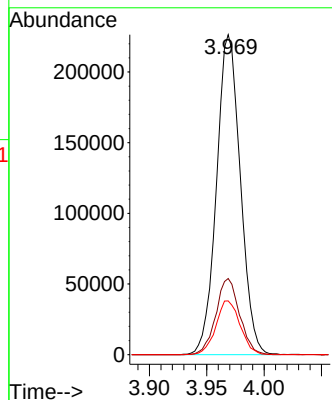
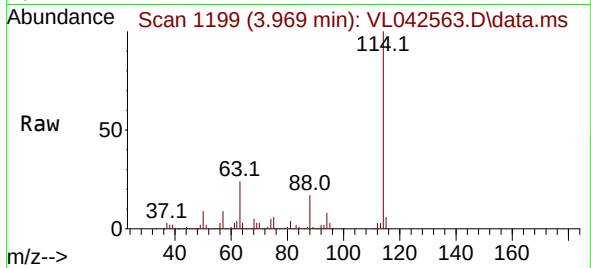




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.969 min Scan# 1199
 Delta R.T. 0.003 min
 Lab File: VL042563.D
 Acq: 21 May 2025 13:40

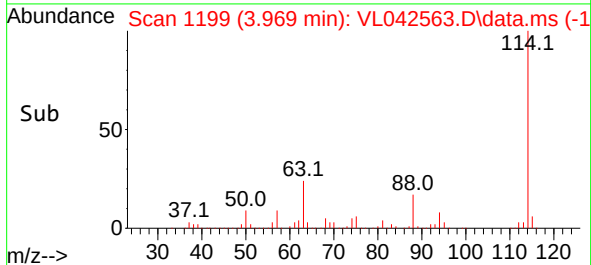
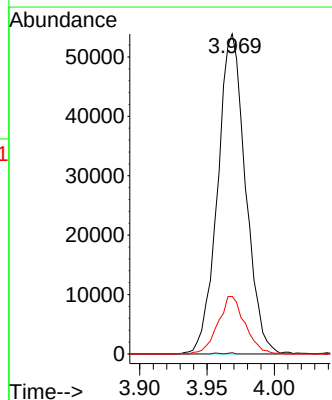
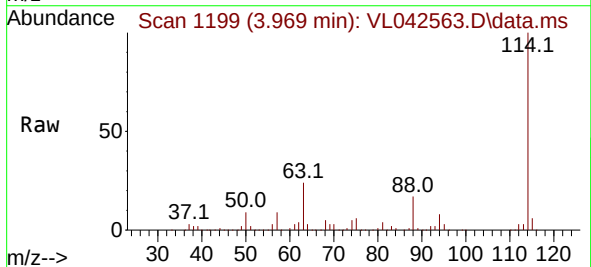
Instrument :
 MSVOA_L
 ClientSampleId :
 QC051225 CAN 10401

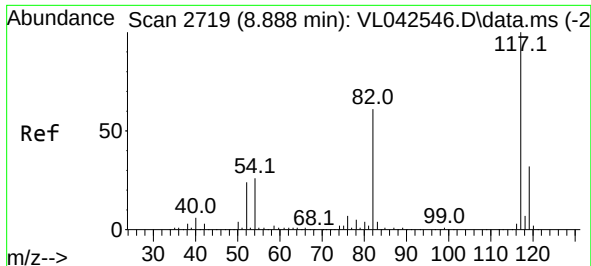
Tgt Ion:114 Resp: 327503
 Ion Ratio Lower Upper
 114 100
 63 23.8 18.4 27.6
 88 17.1 14.0 21.0



#39
 1,2-Dichloropropane
 Concen: 8.334 ppbv
 RT: 3.969 min Scan# 1199
 Delta R.T. -0.353 min
 Lab File: VL042563.D
 Acq: 21 May 2025 13:40

Tgt Ion: 63 Resp: 77527
 Ion Ratio Lower Upper
 63 100
 41 0.4 58.0 87.0#
 62 17.8 53.3 79.9#

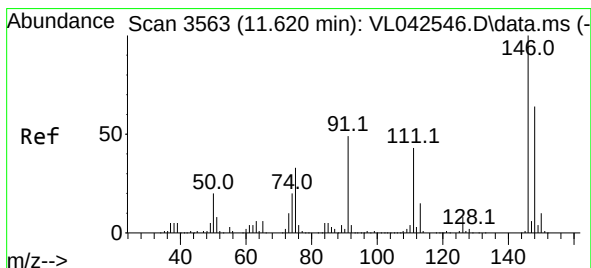
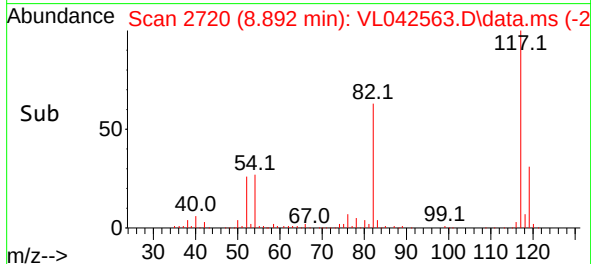
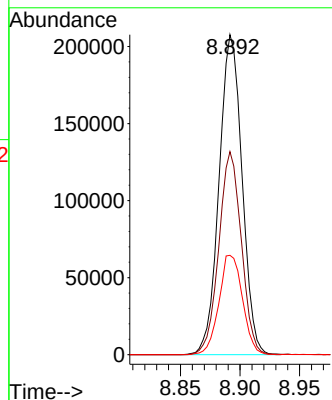
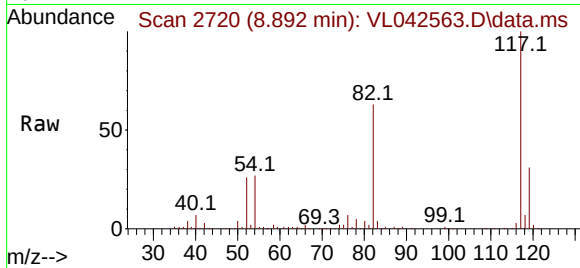




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042563.D
Acq: 21 May 2025 13:40

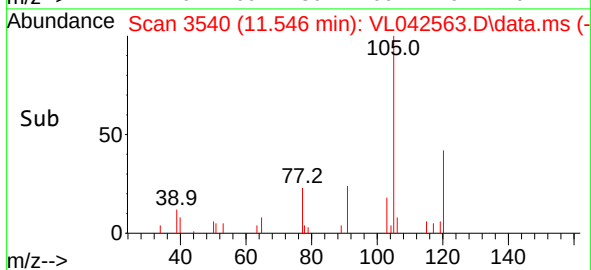
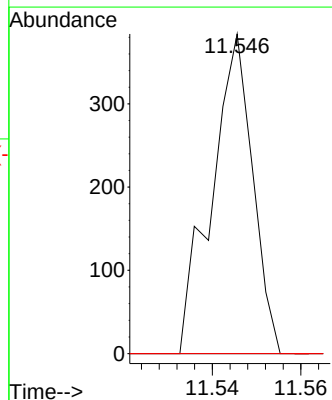
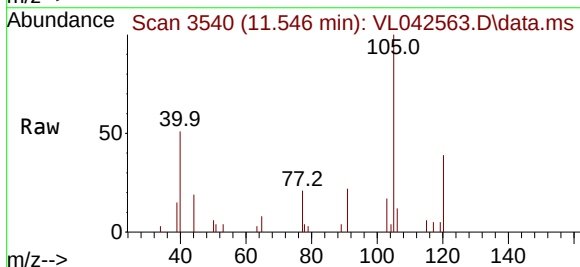
Instrument :
MSVOA_1
ClientSampleId :
QC051225 CAN 10401

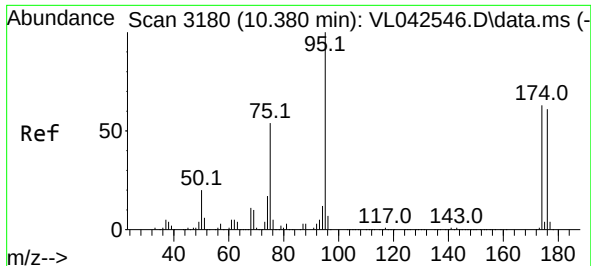
Tgt Ion:117 Resp: 278236
Ion Ratio Lower Upper
117 100
82 62.4 51.0 76.4
119 32.0 27.0 40.4



#66
Benzyl Chloride
Concen: 0.047 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. -0.074 min
Lab File: VL042563.D
Acq: 21 May 2025 13:40

Tgt Ion: 91 Resp: 248
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.2#
128 0.0 4.6 6.8#

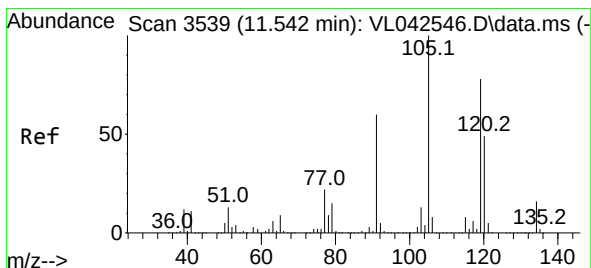
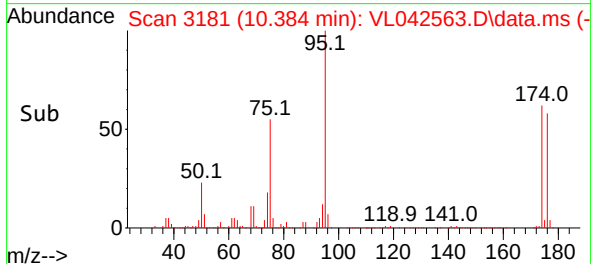
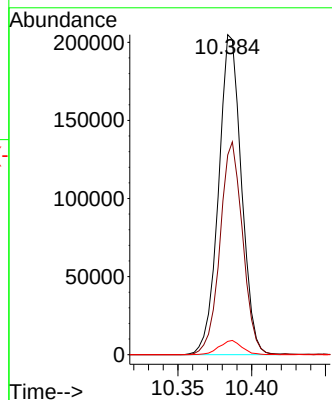
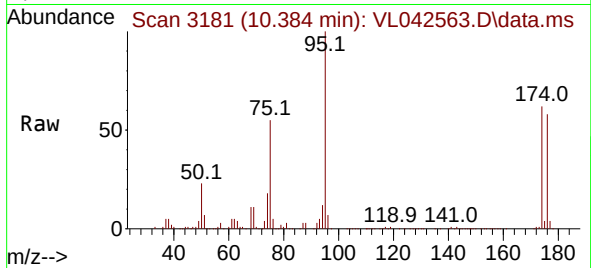




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.930 ppbv
 RT: 10.384 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042563.D
 Acq: 21 May 2025 13:40

Instrument :
 MSVOA_1
 ClientSampleId :
 QC051225 CAN 10401

Tgt Ion: 95 Resp: 221132
 Ion Ratio Lower Upper
 95 100
 174 66.0 52.0 78.0
 175 4.4 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.049 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.000 min
 Lab File: VL042563.D
 Acq: 21 May 2025 13:40

Tgt Ion: 105 Resp: 1946
 Ion Ratio Lower Upper
 105 100
 120 53.6 39.4 59.0
 91 16.4 47.8 71.8#
 77 11.1 17.8 26.6#

