

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042867.D
 Acq On : 21 Aug 2025 14:43
 Operator : SY/MD
 Sample : VL0821ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0821ABL01

Quant Time: Aug 22 01:23:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

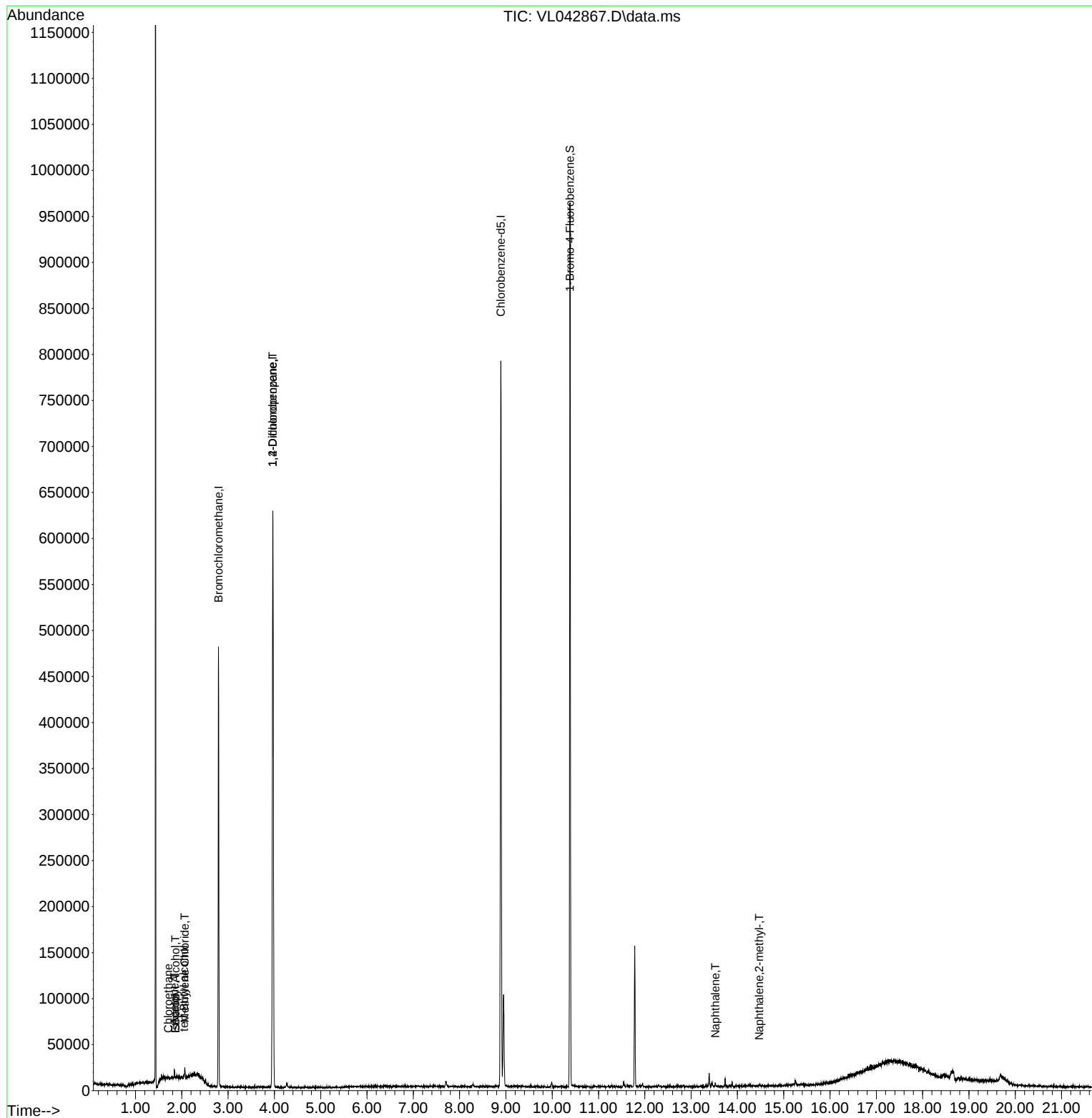
Internal Standards						
1) Bromochloromethane	2.793	49	130204	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	388987	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	334020	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	253717	10.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
					Qvalue	
7) Chloroethane	1.706	64	70	0.024	ppbv #	50
13) Ethanol	1.865	45	247	0.297	ppbv #	1
15) Acetone	1.839	43	4321	0.251	ppbv #	73
17) tert-Butyl alcohol	2.049	59	1063	0.052	ppbv #	10
19) Isopropyl Alcohol	1.865	45	247	0.024	ppbv #	1
20) Methylene Chloride	2.065	84	1561	0.216	ppbv #	95
39) 1,2-Dichloropropane	3.965	63	96438	7.089	ppbv #	27
79) Naphthalene	13.520	128	1776	0.037	ppbv #	89
80) Naphthalene,2-methyl-	14.471	142	850	0.048	ppbv	91

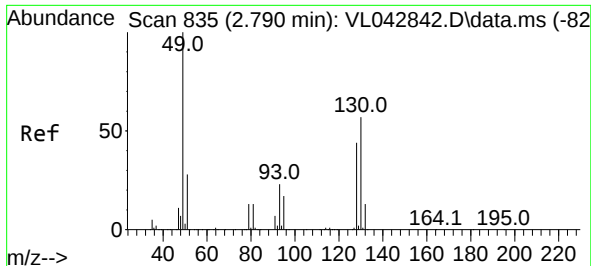
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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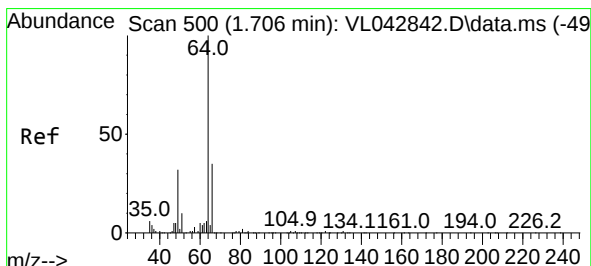
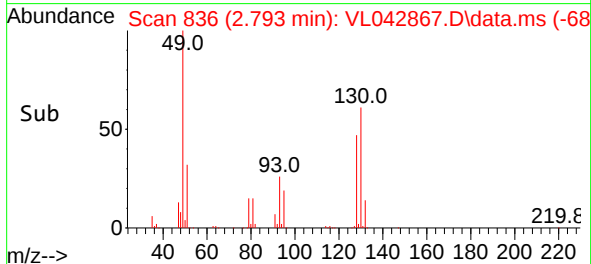
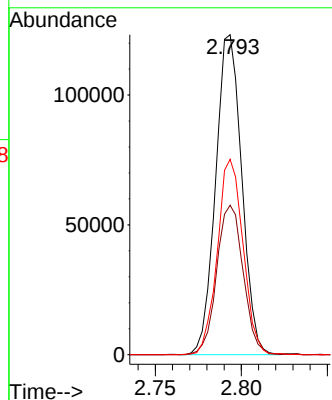
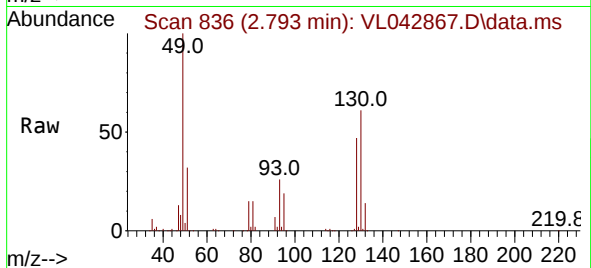




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

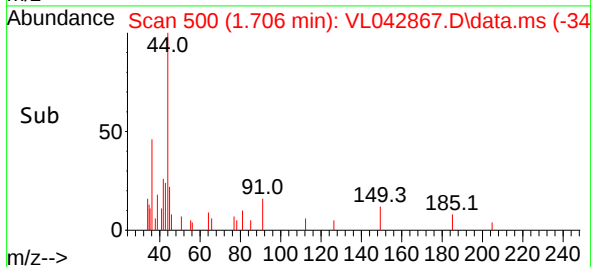
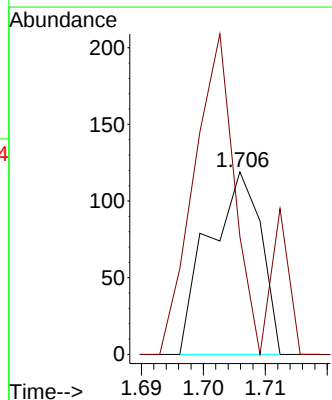
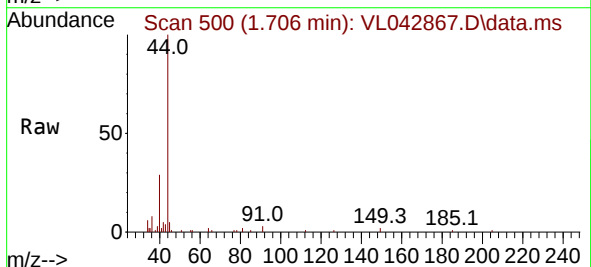
Instrument :
MSVOA_L
ClientSampleId :
VL0821ABL01

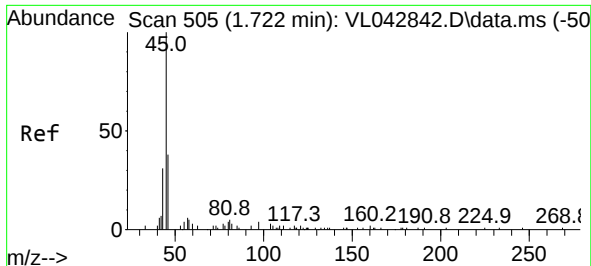
Tgt Ion: 49 Resp: 130204
Ion Ratio Lower Upper
49 100
128 47.4 23.7 71.1
130 60.1 30.6 91.6



#7
Chloroethane
Concen: 0.024 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion: 64 Resp: 70
Ion Ratio Lower Upper
64 100
66 64.7 28.6 42.8#

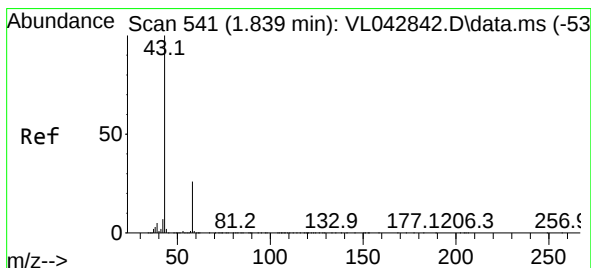
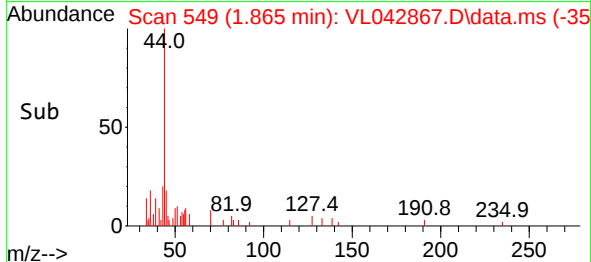
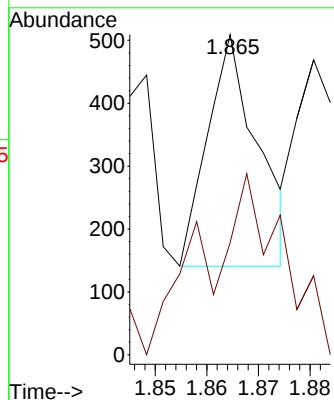
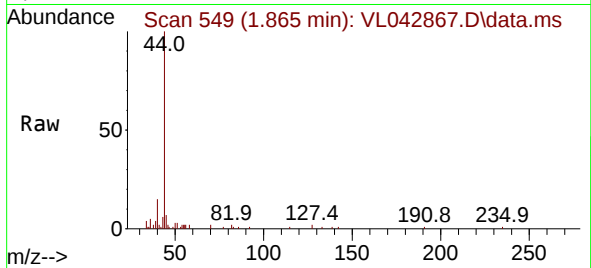




#13
Ethanol
Concen: 0.297 ppbv
RT: 1.865 min Scan# 549
Delta R.T. 0.142 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

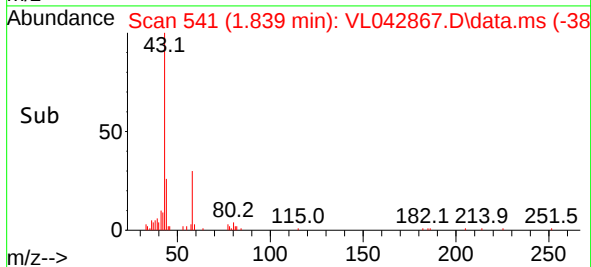
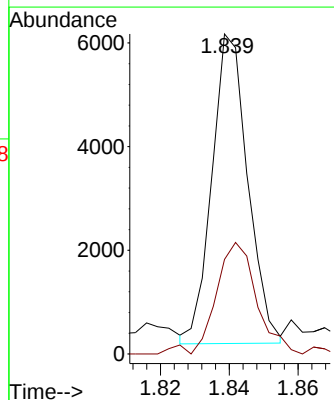
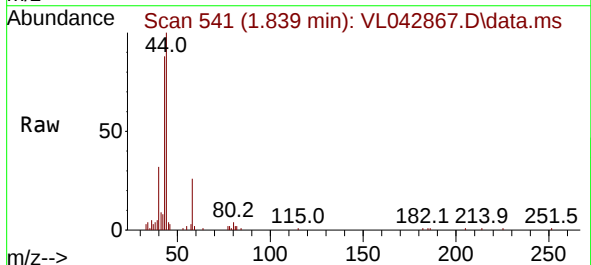
Instrument :
MSVOA_L
ClientSampleId :
VL0821ABL01

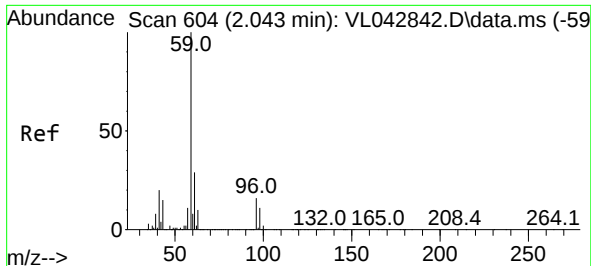
Tgt Ion: 45 Resp: 247
Ion Ratio Lower Upper
45 100
46 123.1 17.5 69.9#



#15
Acetone
Concen: 0.251 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion: 43 Resp: 4321
Ion Ratio Lower Upper
43 100
58 42.1 22.4 33.6#

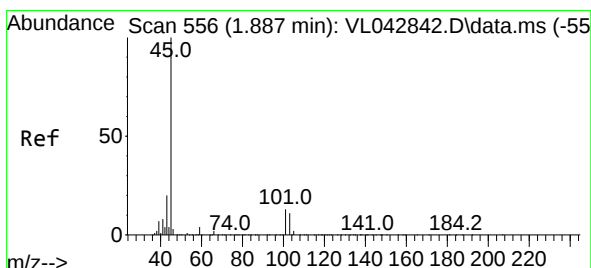
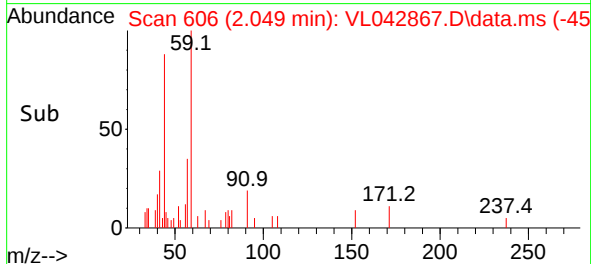
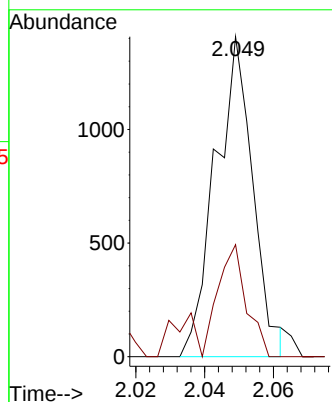
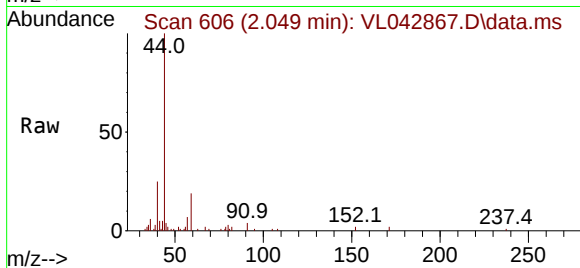




#17
tert-Butyl alcohol
Concen: 0.052 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

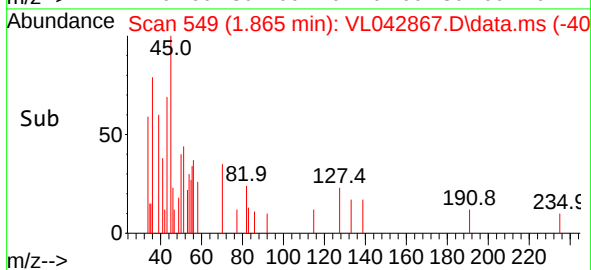
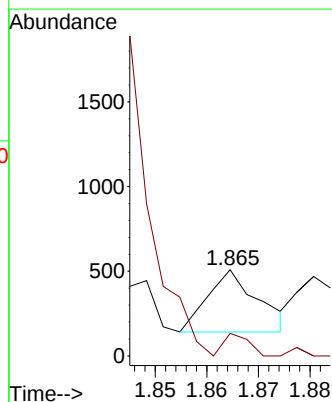
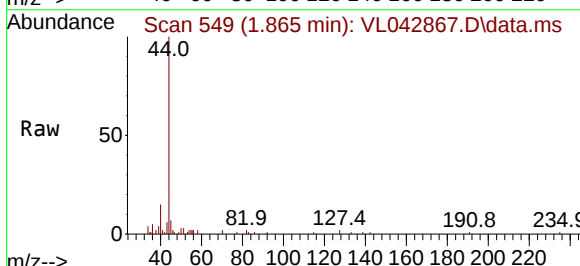
Instrument :
MSVOA_L
ClientSampleId :
VL0821ABL01

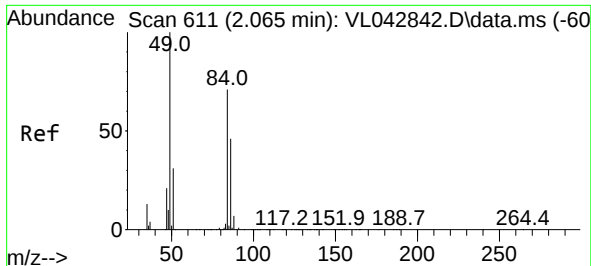
Tgt Ion: 59 Resp: 1063
Ion Ratio Lower Upper
59 100
57 45.3 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 0.024 ppbv
RT: 1.865 min Scan# 549
Delta R.T. -0.023 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion: 45 Resp: 247
Ion Ratio Lower Upper
45 100
58 737.2 32.7 49.1#

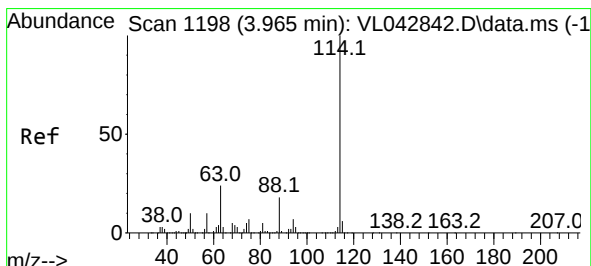
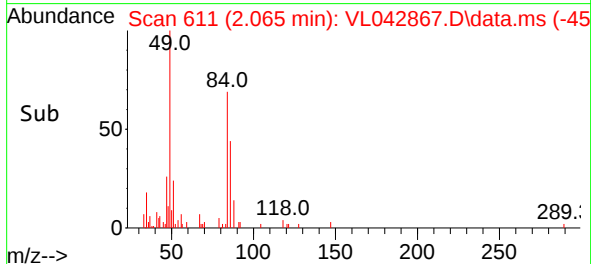
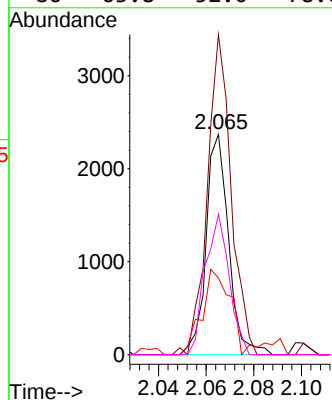
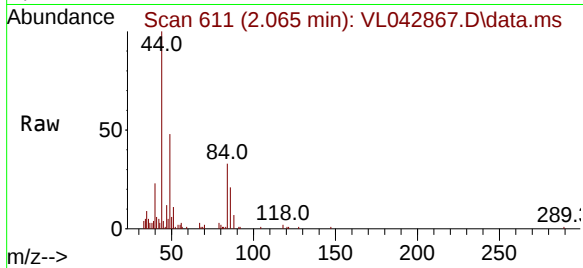




#20
Methylene Chloride
Concen: 0.216 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

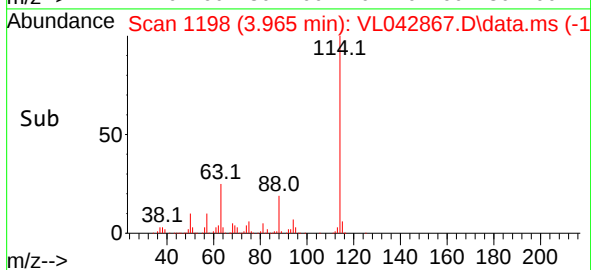
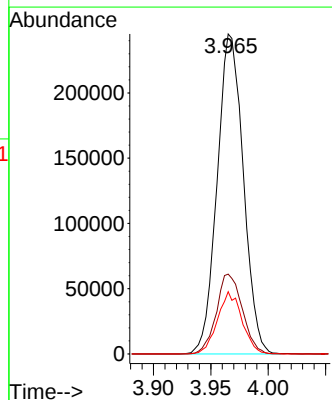
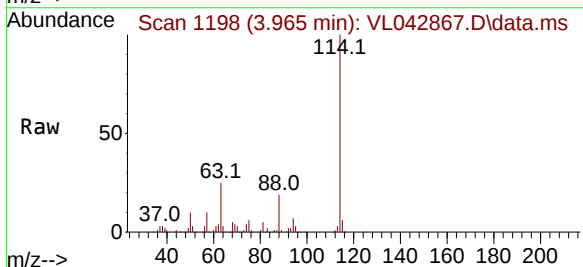
Instrument :
MSVOA_1
ClientSampleId :
VL0821ABL01

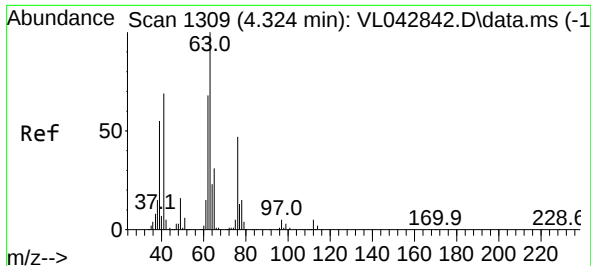
Tgt Ion: 84	Resp: 1561
Ion Ratio	Lower Upper
84 100	
49 145.2	112.3 168.5
51 34.9	36.0 54.0#
86 63.8	52.0 78.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion:114	Resp: 388987
Ion Ratio	Lower Upper
114 100	
63 24.8	19.7 29.5
88 18.2	14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.089 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.359 min

Lab File: VL042867.D

Acq: 21 Aug 2025 14:43

Instrument :

MSVOA_L

ClientSampleId :

VL0821ABL01

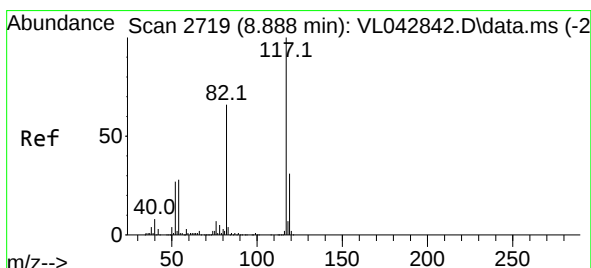
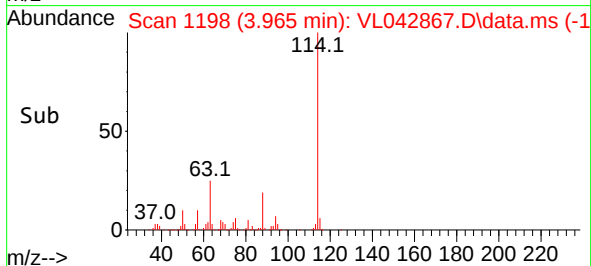
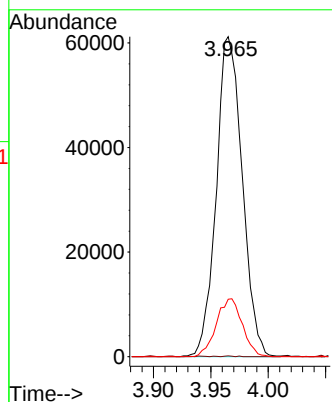
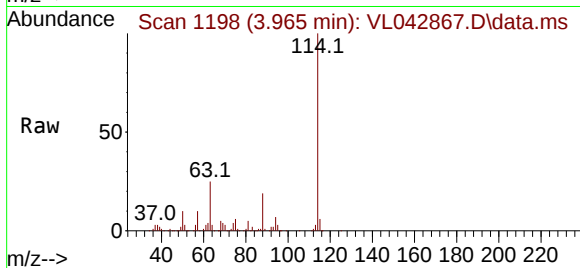
Tgt Ion: 63 Resp: 96438

Ion Ratio Lower Upper

63 100

41 0.2 55.0 82.4#

62 17.9 54.4 81.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2720

Delta R.T. 0.003 min

Lab File: VL042867.D

Acq: 21 Aug 2025 14:43

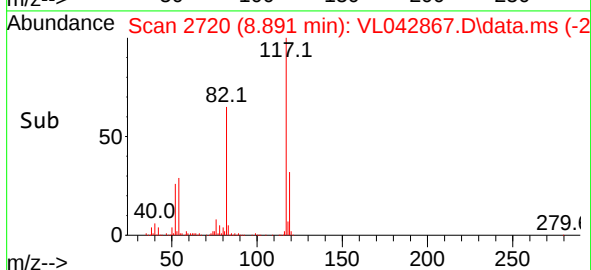
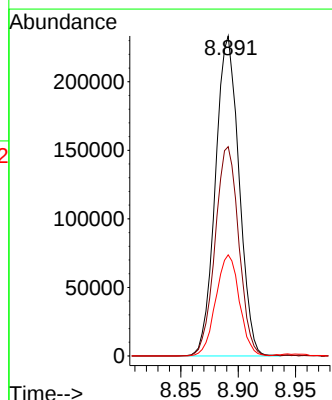
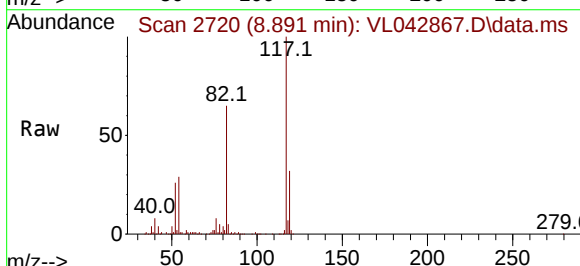
Tgt Ion: 117 Resp: 334020

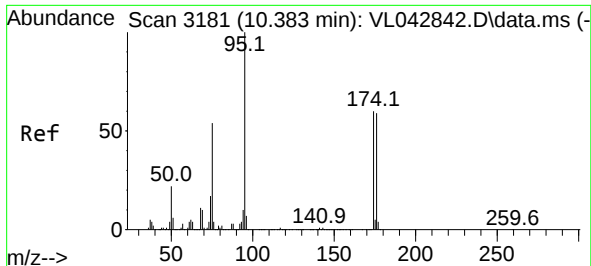
Ion Ratio Lower Upper

117 100

82 65.9 54.6 81.8

119 31.6 25.9 38.9

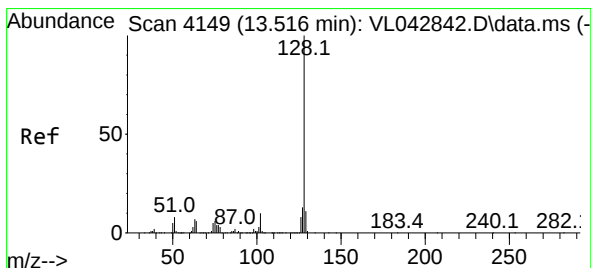
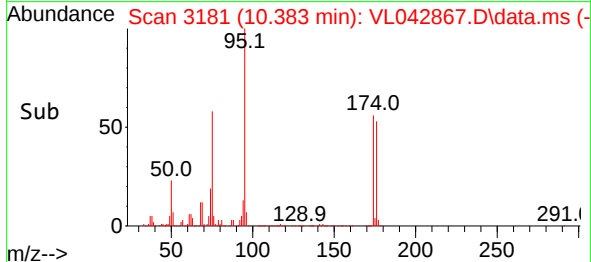
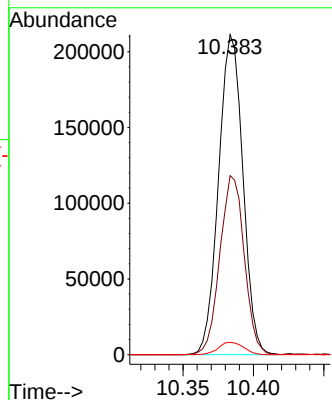
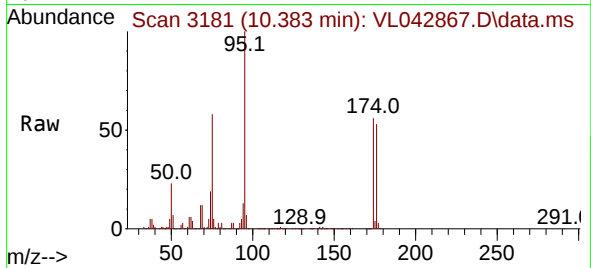




#68
1-Bromo-4-Fluorobenzene
Concen: 10.128 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

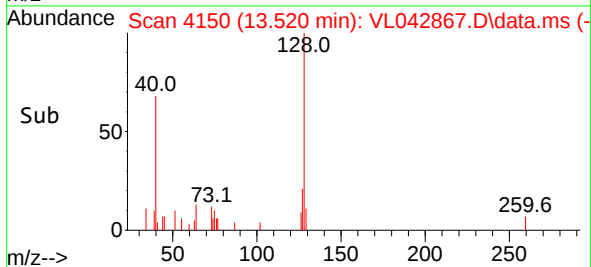
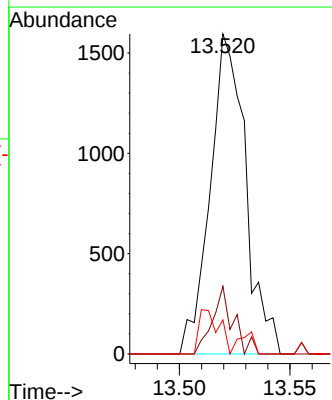
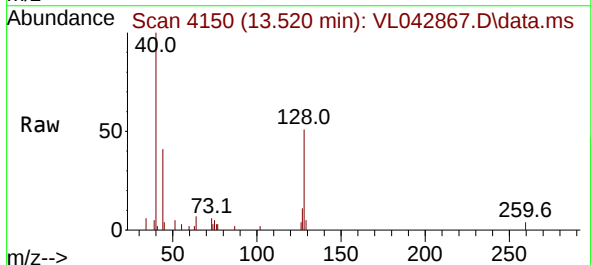
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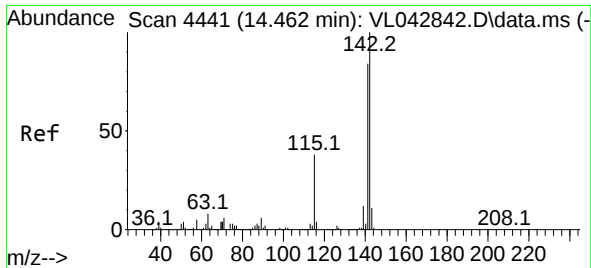
Tgt Ion: 95 Resp: 253717
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 4.0 3.8 5.8



#79
Naphthalene
Concen: 0.037 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion: 128 Resp: 1776
Ion Ratio Lower Upper
128 100
127 21.1 10.6 16.0#
129 10.7 8.9 13.3





#80

Naphthalene, 2-methyl-

Concen: 0.048 ppbv

RT: 14.471 min Scan# 44

Delta R.T. 0.010 min

Lab File: VL042867.D

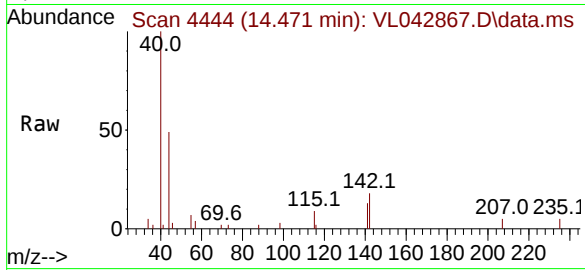
Acq: 21 Aug 2025 14:43

Instrument :

MSVOA_L

ClientSampleId :

VL0821ABL01



Tgt Ion:142 Resp: 850

Ion Ratio Lower Upper

142 100

141 74.4 67.0 100.6

115 35.9 30.9 46.3

