

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042958.D
 Acq On : 22 Sep 2025 15:06
 Operator : SY/MD
 Sample : VL0922ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0922ABL01

Quant Time: Sep 23 02:50:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	157278	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	497068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	444461	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	332703	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

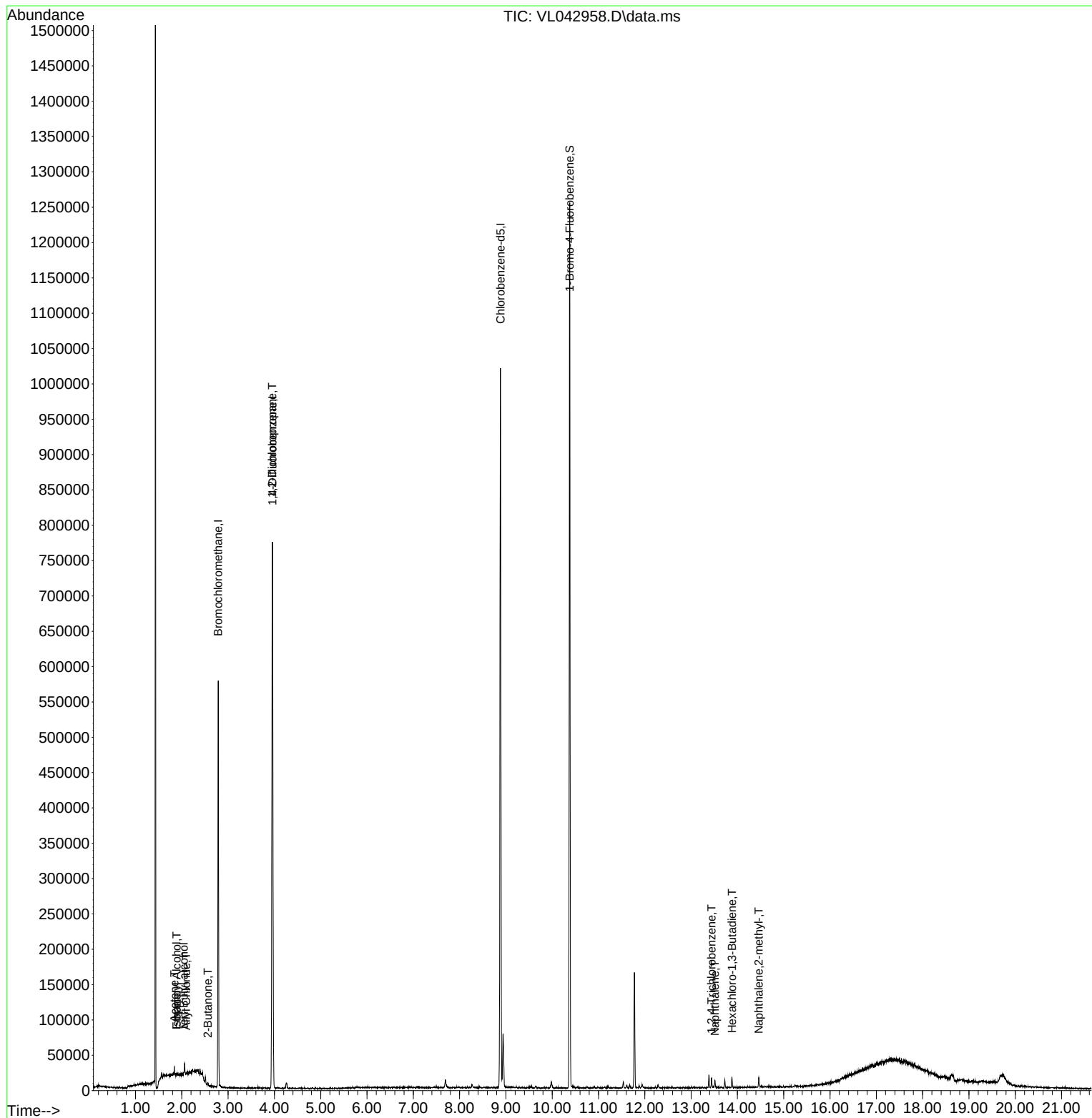
Target Compounds						Qvalue
13) Ethanol	1.887	45	961	0.864	ppbv	92
15) Acetone	1.839	43	4627	0.226	ppbv #	46
17) tert-Butyl alcohol	2.042	59	1056	0.047	ppbv #	55
19) Isopropyl Alcohol	1.887	45	961	0.078	ppbv #	1
20) Methylene Chloride	2.062	84	2624	Below Cal	#	88
21) Allyl Chloride	2.094	41	463	0.032	ppbv #	1
34) 2-Butanone	2.564	43	1689	0.048	ppbv #	54
39) 1,2-Dichloropropane	3.955	63	118679	6.965	ppbv #	23
78) Hexachloro-1,3-Butadiene	13.882	225	1308	0.044	ppbv	97
79) Naphthalene	13.513	128	4868	0.085	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	5081	0.288	ppbv #	94
81) 1,2,4-Trichlorobenzene	13.439	180	2202	0.072	ppbv #	88

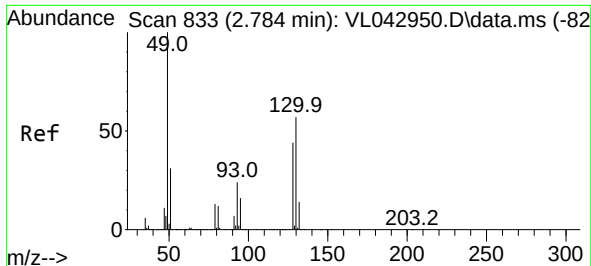
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 23 02:50:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

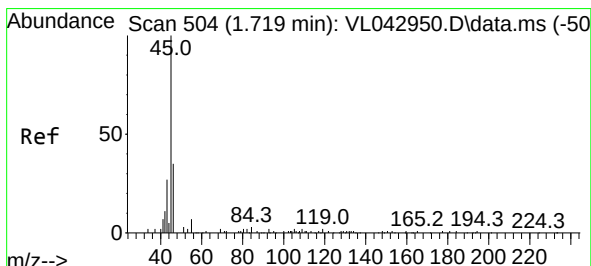
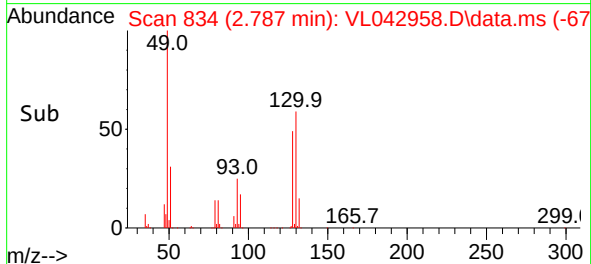
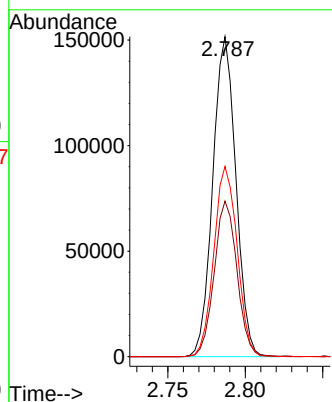
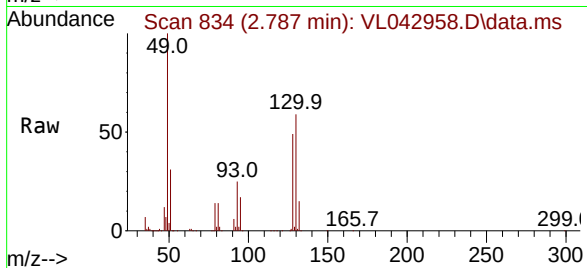




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

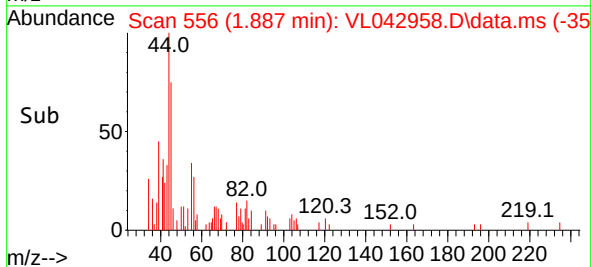
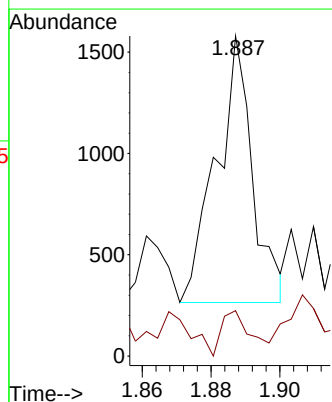
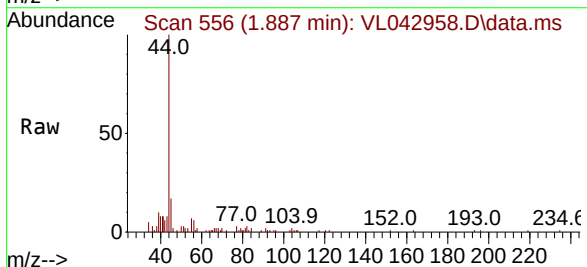
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABL01

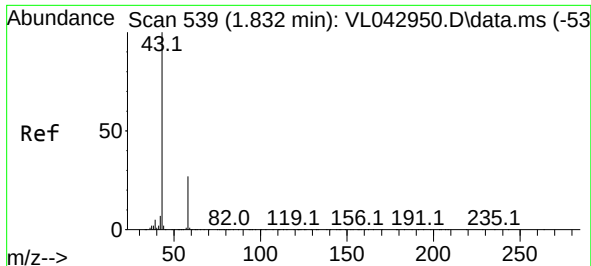
Tgt Ion: 49 Resp: 157278
Ion Ratio Lower Upper
49 100
128 48.0 22.9 68.8
130 60.1 29.1 87.3



#13
Ethanol
Concen: 0.864 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.168 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion: 45 Resp: 961
Ion Ratio Lower Upper
45 100
46 45.1 16.2 64.6





#15

Acetone

Concen: 0.226 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042958.D

Acq: 22 Sep 2025 15:06

Instrument :

MSVOA_1

ClientSampleId :

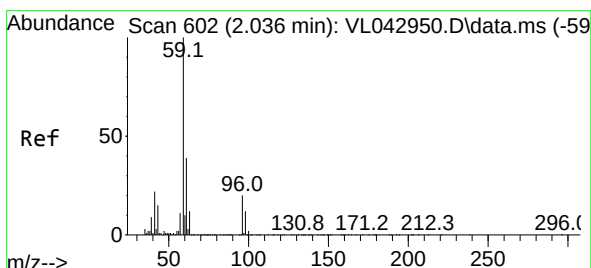
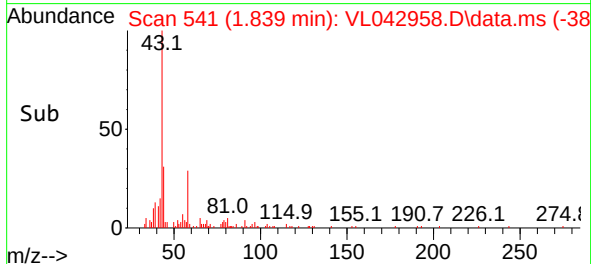
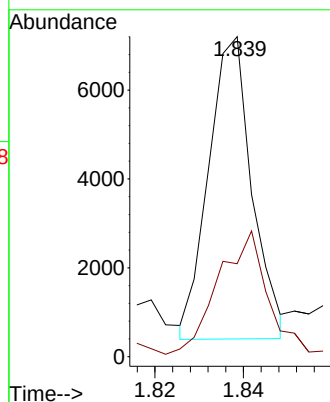
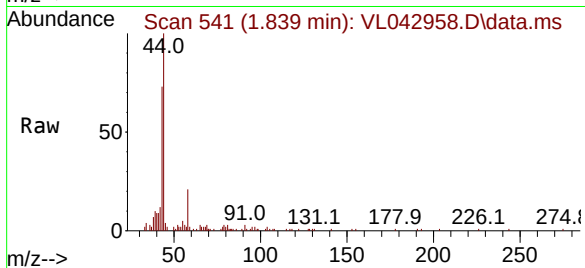
VL0922ABL01

Tgt Ion: 43 Resp: 4627

Ion Ratio Lower Upper

43 100

58 56.2 22.3 33.5#



#17

tert-Butyl alcohol

Concen: 0.047 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042958.D

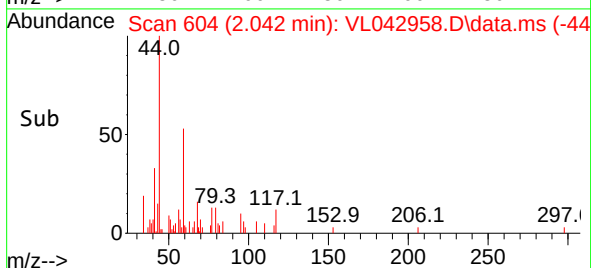
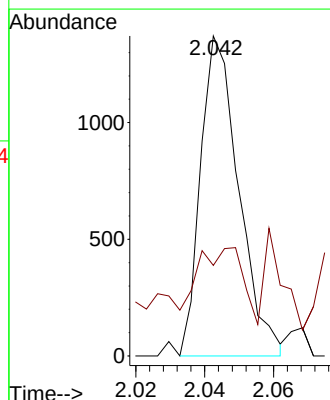
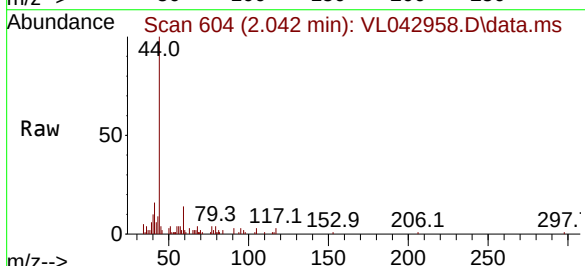
Acq: 22 Sep 2025 15:06

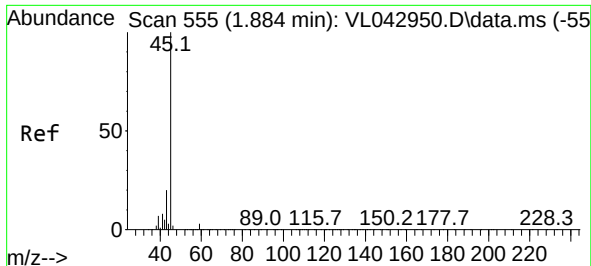
Tgt Ion: 59 Resp: 1056

Ion Ratio Lower Upper

59 100

57 27.6 8.6 12.8#

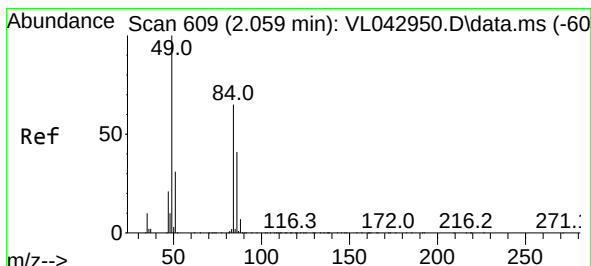
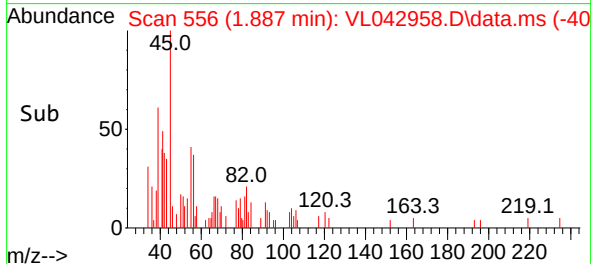
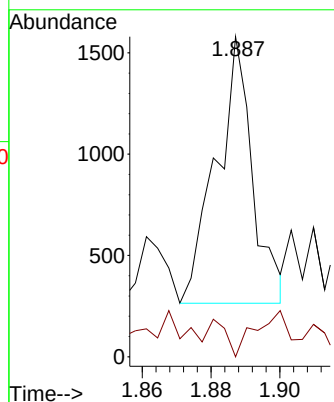
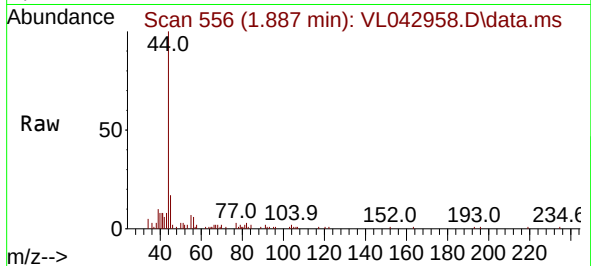




#19
Isopropyl Alcohol
Concen: 0.078 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

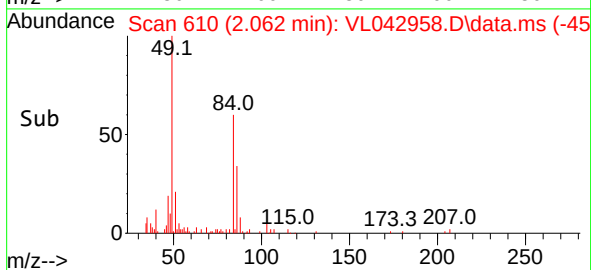
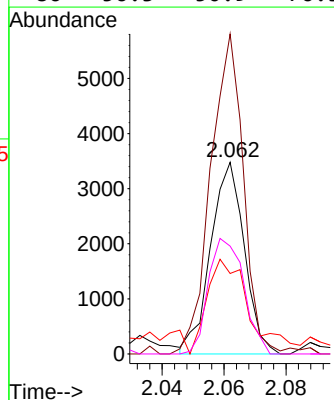
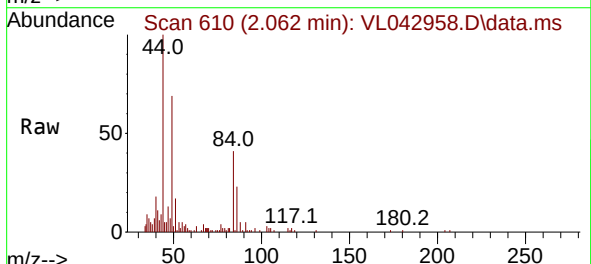
Instrument :
MSVOA_L
ClientSampleId :
VL0922ABL01

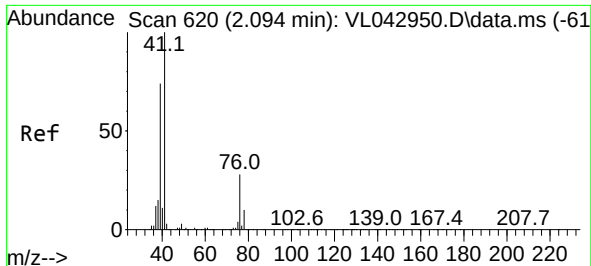
Tgt Ion: 45 Resp: 961
Ion Ratio Lower Upper
45 100
58 268.1 31.0 46.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion: 84 Resp: 2624
Ion Ratio Lower Upper
84 100
49 165.4 124.1 186.1
51 32.0 39.8 59.8#
86 56.3 50.9 76.3

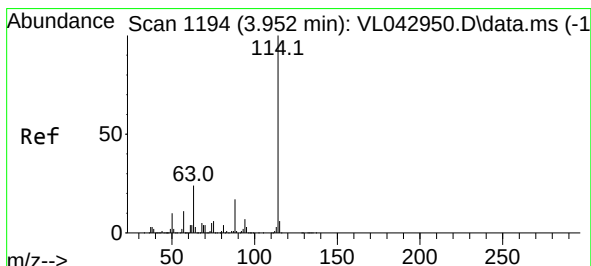
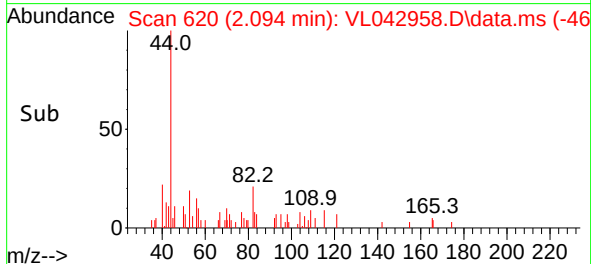
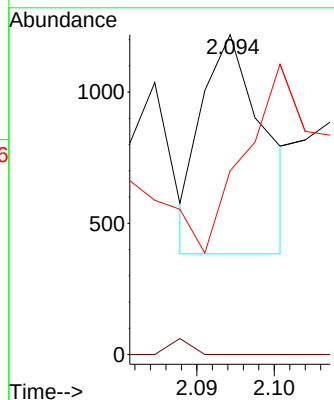
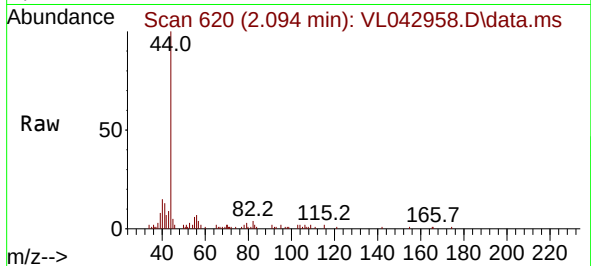




#21
 Allyl Chloride
 Concen: 0.032 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042958.D
 Acq: 22 Sep 2025 15:06

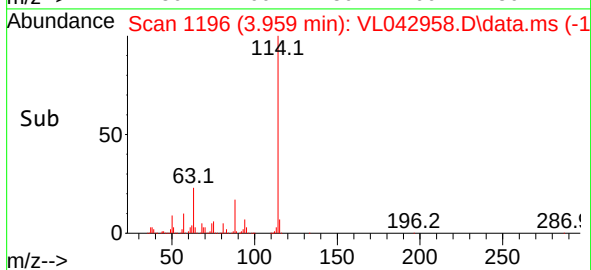
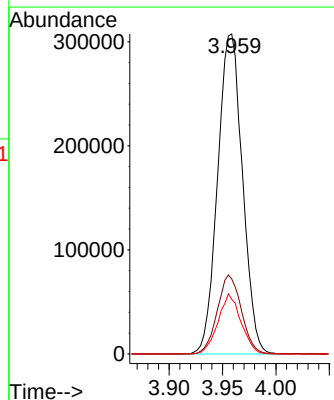
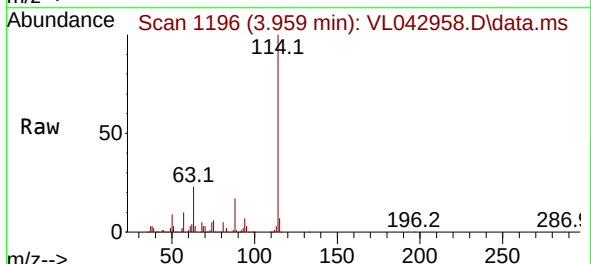
Instrument :
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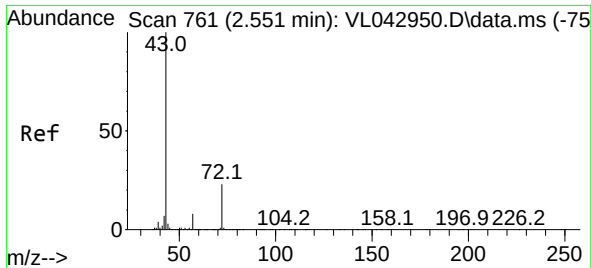
Tgt Ion: 41 Resp: 463
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.3 33.5#
 39 238.0 61.3 91.9#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.006 min
 Lab File: VL042958.D
 Acq: 22 Sep 2025 15:06

Tgt Ion: 114 Resp: 497068
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.4 29.2
 88 17.3 14.2 21.2

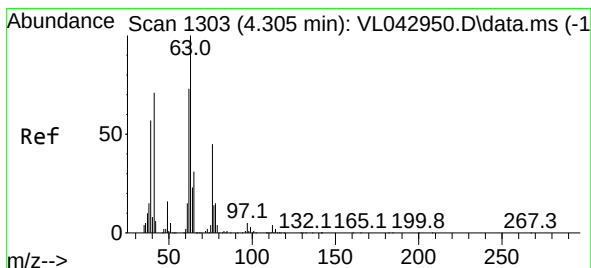
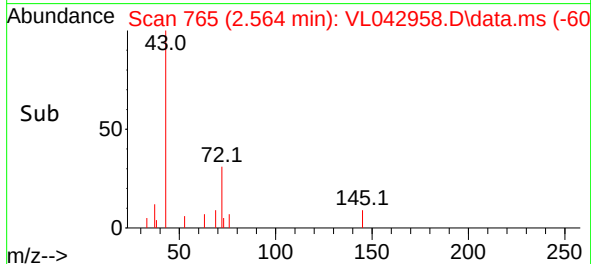
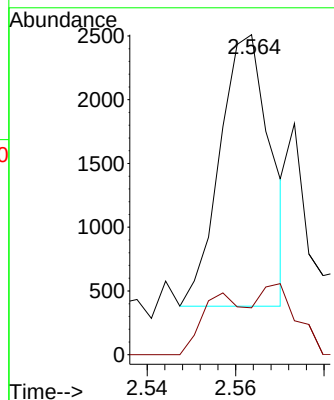
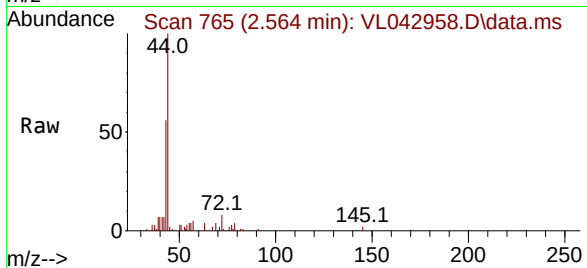




#34
2-Butanone
Concen: 0.048 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

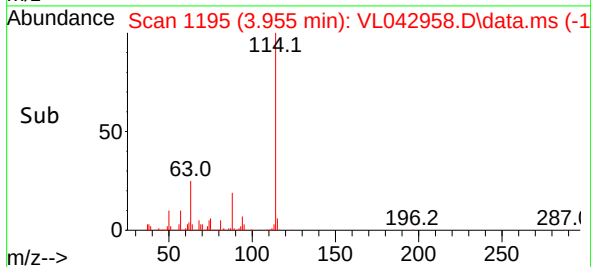
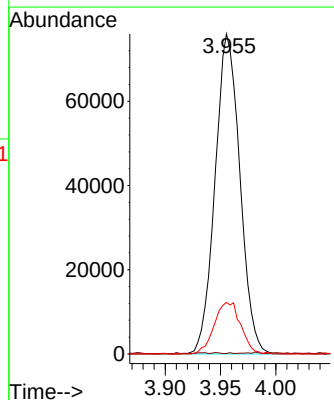
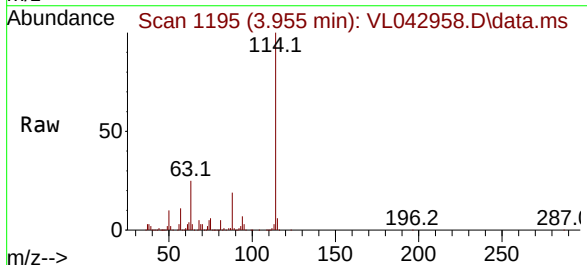
Instrument :
MSVOA_1
ClientSampleId :
VL0922ABL01

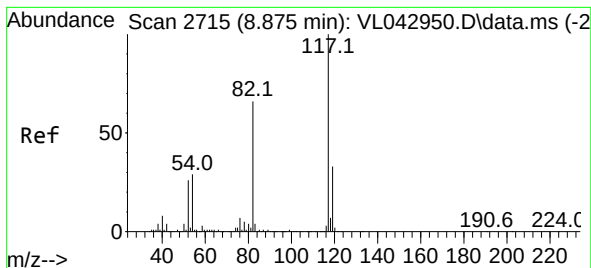
Tgt Ion: 43 Resp: 1689
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#



#39
1,2-Dichloropropane
Concen: 6.965 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.350 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion: 63 Resp: 118679
Ion Ratio Lower Upper
63 100
41 0.2 57.5 86.3#
62 16.1 58.5 87.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042958.D

Acq: 22 Sep 2025 15:06

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABL01

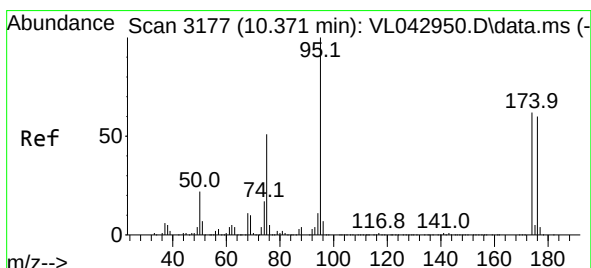
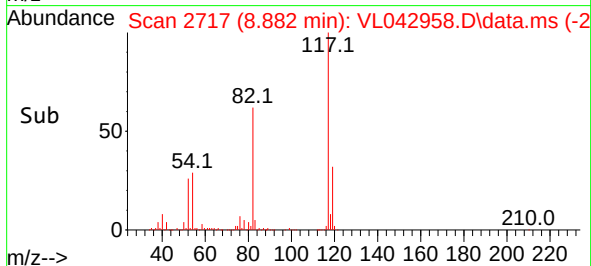
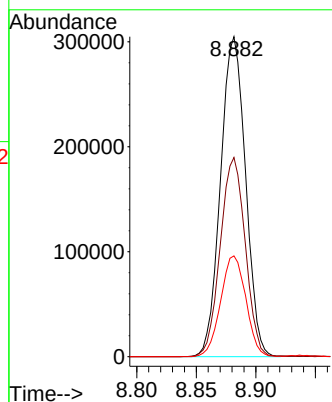
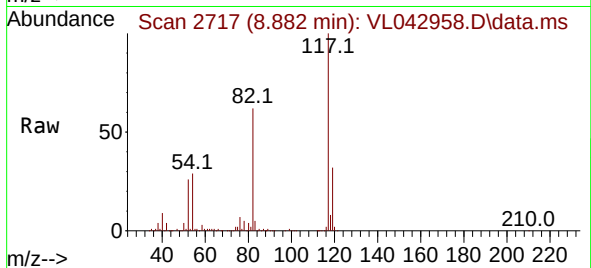
Tgt Ion:117 Resp: 444461

Ion Ratio Lower Upper

117 100

82 62.4 52.8 79.2

119 31.8 26.5 39.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.006 min

Lab File: VL042958.D

Acq: 22 Sep 2025 15:06

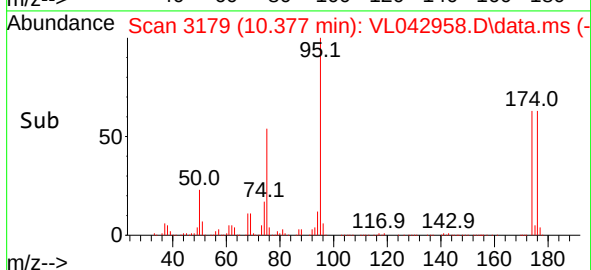
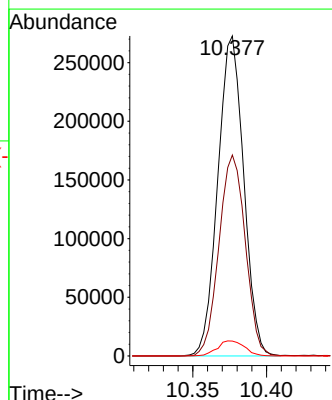
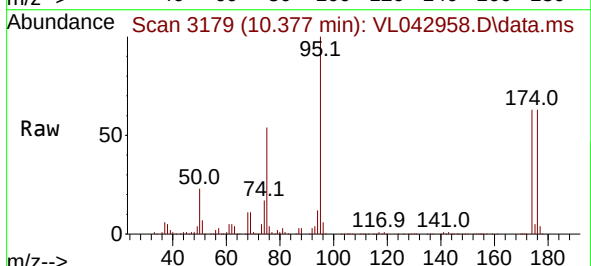
Tgt Ion: 95 Resp: 332703

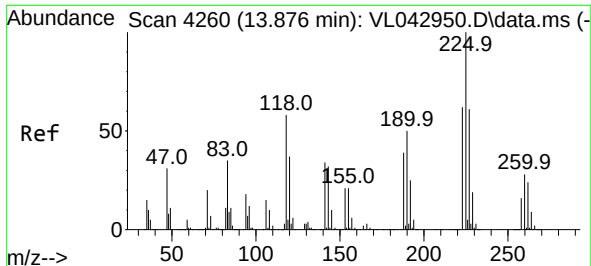
Ion Ratio Lower Upper

95 100

174 64.0 51.4 77.2

175 5.0 4.0 6.0

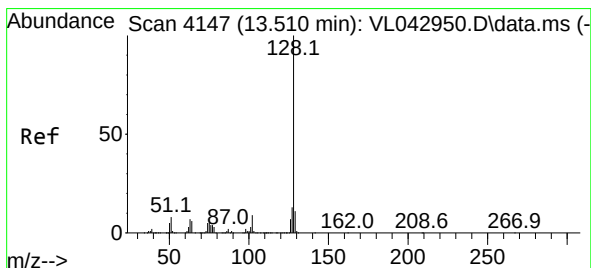
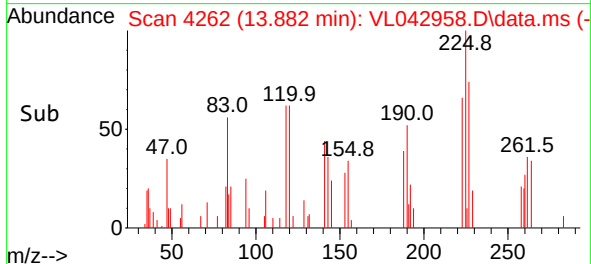
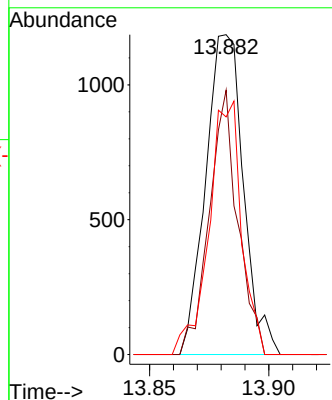
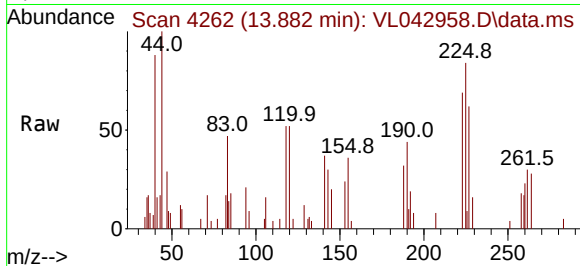




#78
Hexachloro-1,3-Butadiene
Concen: 0.044 ppbv
RT: 13.882 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

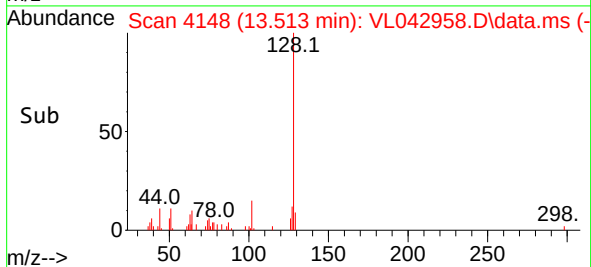
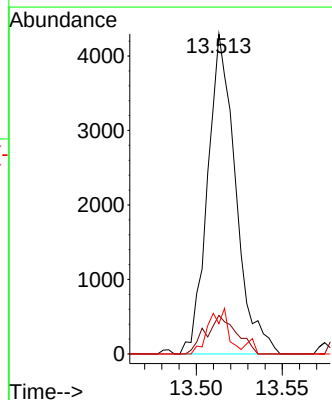
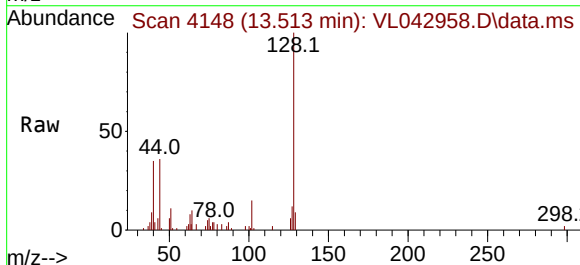
Instrument :
MSVOA_L
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VL0922ABL01

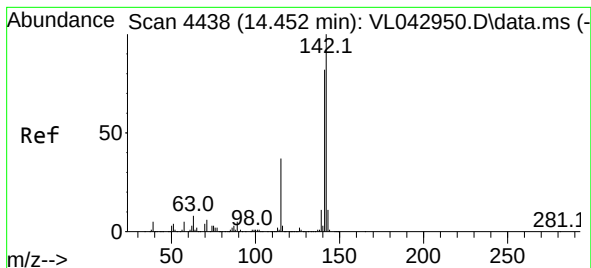
Tgt Ion:	225	Resp:	1308
Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.1	75.1
227	68.1	50.4	75.6



#79
Naphthalene
Concen: 0.085 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042958.D
Acq: 22 Sep 2025 15:06

Tgt Ion:	128	Resp:	4868
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.6	15.8
129	9.4	9.0	13.6





#80

Naphthalene, 2-methyl-

Concen: 0.288 ppbv

RT: 14.458 min Scan# 4438

Delta R.T. 0.006 min

Lab File: VL042958.D

Acq: 22 Sep 2025 15:06

Instrument :

MSVOA_1

ClientSampleId :

VL0922ABL01

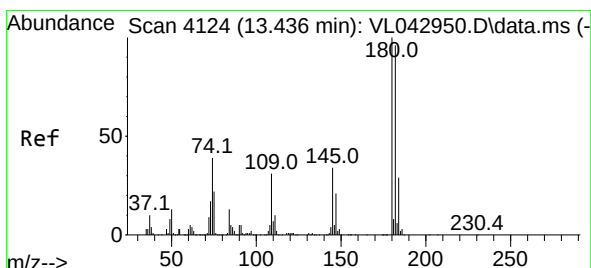
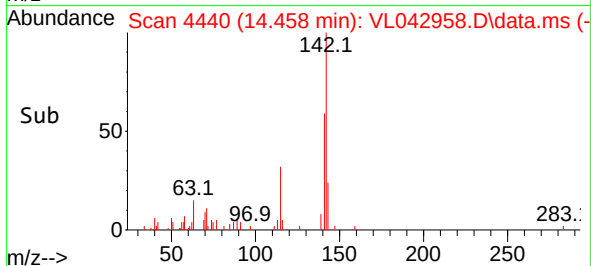
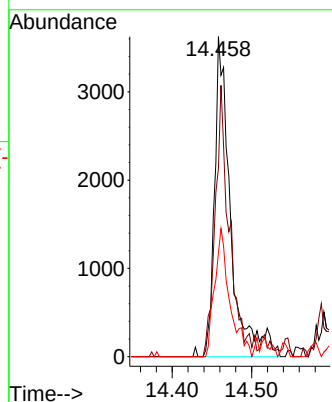
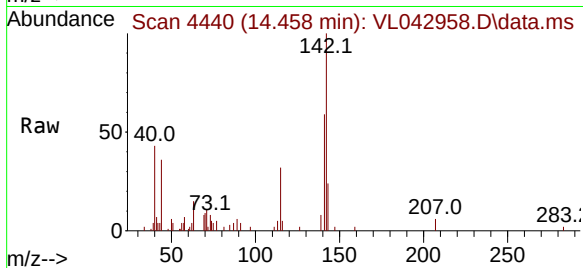
Tgt Ion:142 Resp: 5081

Ion Ratio Lower Upper

142 100

141 79.3 65.1 97.7

115 43.8 28.9 43.3#



#81

1,2,4-Trichlorobenzene

Concen: 0.072 ppbv

RT: 13.439 min Scan# 4125

Delta R.T. 0.003 min

Lab File: VL042958.D

Acq: 22 Sep 2025 15:06

Tgt Ion:180 Resp: 2202

Ion Ratio Lower Upper

180 100

182 103.7 75.7 113.5

184 40.1 23.9 35.9#

