

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043171.D
 Acq On : 06 Nov 2025 17:03
 Operator : SY/MD
 Sample : Q3557-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2DL

Quant Time: Nov 07 00:24:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	111726	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	310352	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	260144	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	204363	10.107	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1859	0.117	ppbv	97
3) Chlorodifluoromethane	1.466	51	1685	0.098	ppbv #	71
8) Dichlorotetrafluoroethane	1.502	85	1859	0.145	ppbv #	20
9) Propene	1.486	41	620	0.081	ppbv #	67
13) Ethanol	1.722	45	3586	1.272	ppbv	96
15) Acetone	1.835	43	115569	7.674	ppbv	99
17) tert-Butyl alcohol	2.046	59	2365	0.114	ppbv #	75
19) Isopropyl Alcohol	1.887	45	1703	0.182	ppbv #	1
20) Methylene Chloride	2.062	84	1868	0.314	ppbv #	83
26) Hexane	2.826	57	1039	0.060	ppbv #	50
34) 2-Butanone	2.560	43	5741	0.275	ppbv	94
39) 1,2-Dichloropropane	3.955	63	79016	7.394	ppbv #	25

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

Quant Time: Nov 07 00:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

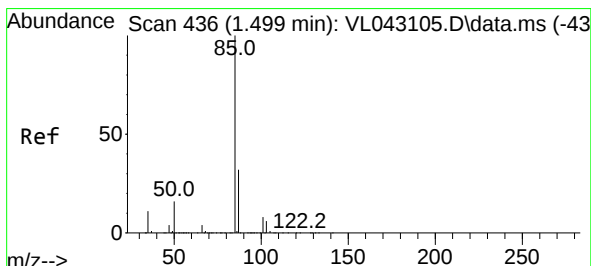
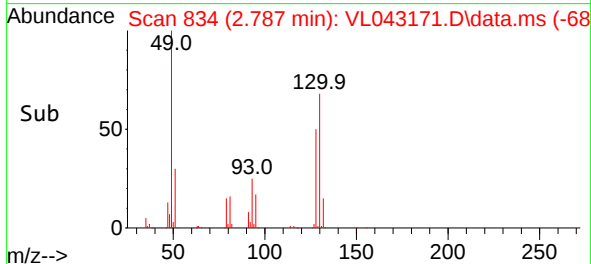
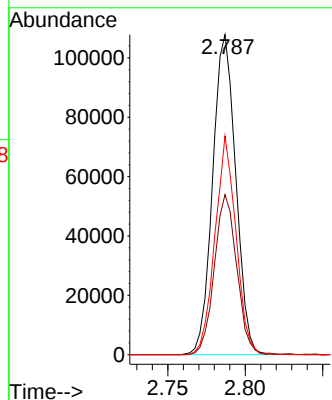
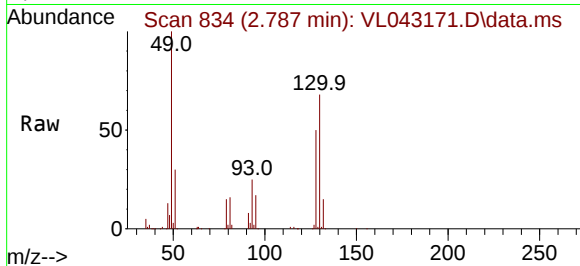




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

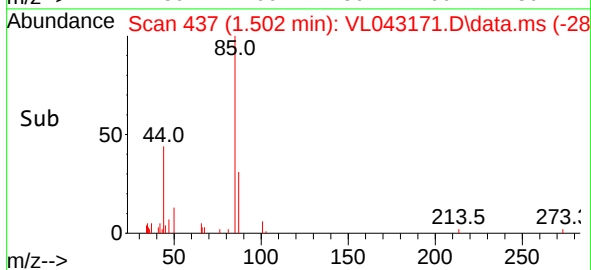
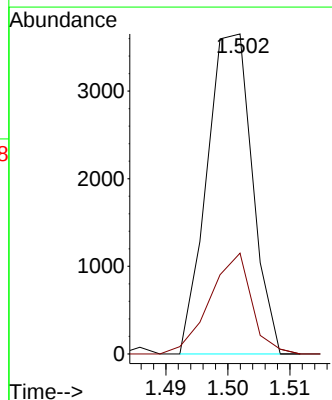
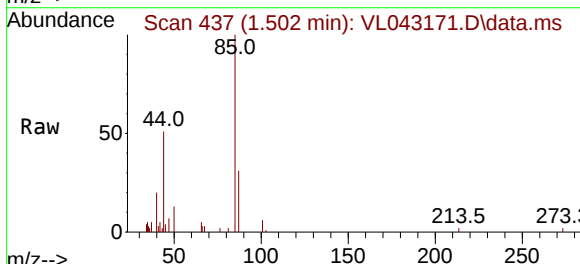
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

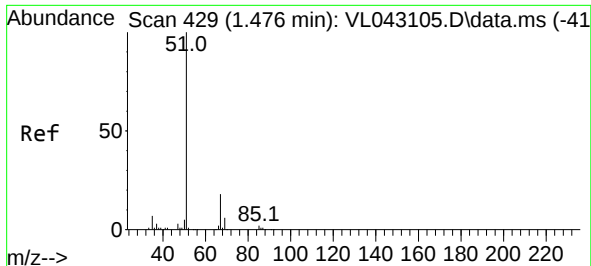
Tgt Ion: 49 Resp: 111726
Ion Ratio Lower Upper
49 100
128 48.4 24.4 73.4
130 62.3 31.0 93.0



#2
Dichlorodifluoromethane
Concen: 0.117 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 85 Resp: 1859
Ion Ratio Lower Upper
85 100
87 30.0 25.3 37.9

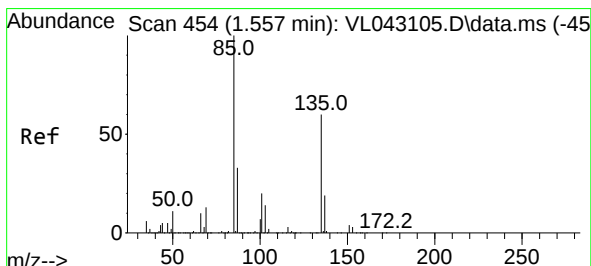
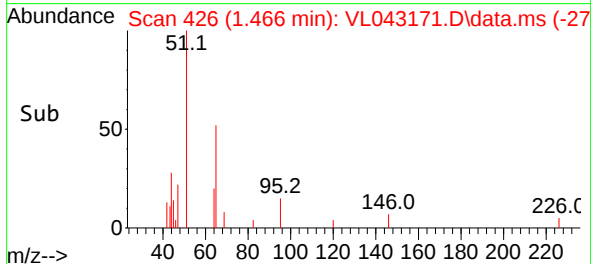
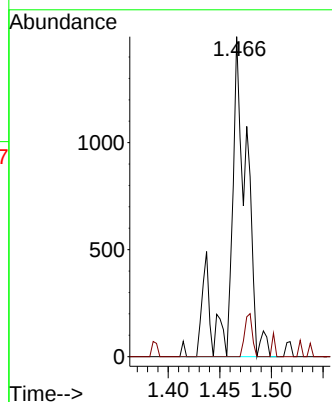
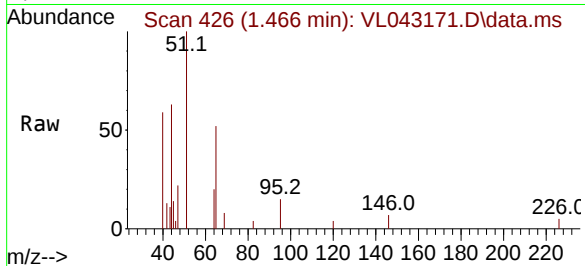




#3
Chlorodifluoromethane
Concen: 0.098 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

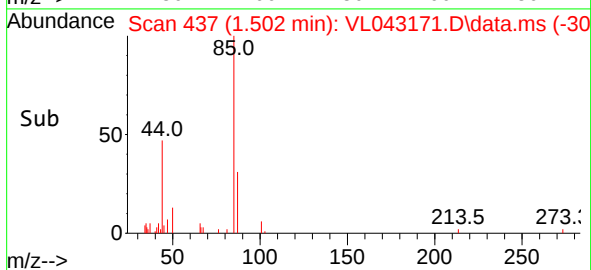
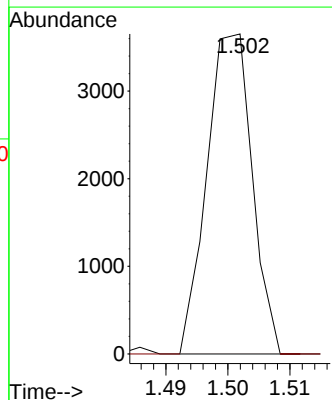
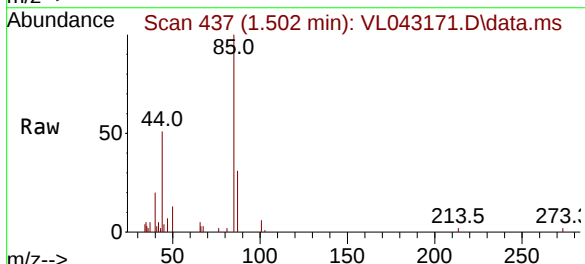
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

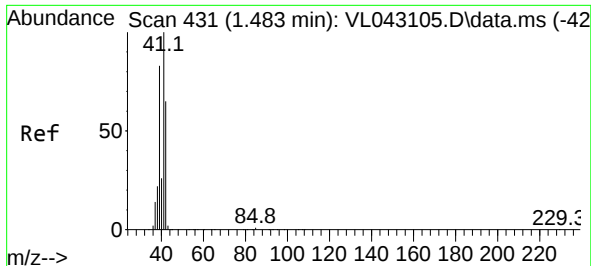
Tgt Ion: 51 Resp: 1685
Ion Ratio Lower Upper
51 100
67 6.1 15.1 22.7#



#8
Dichlorotetrafluoroethane
Concen: 0.145 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.055 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 85 Resp: 1859
Ion Ratio Lower Upper
85 100
135 0.0 48.2 72.4#





#9

Propene

Concen: 0.081 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043171.D

Acq: 06 Nov 2025 17:03

Instrument :

MSVOA_L

ClientSampleId :

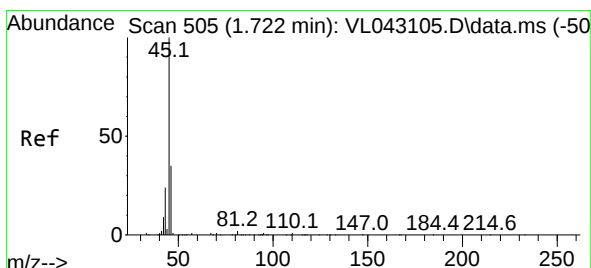
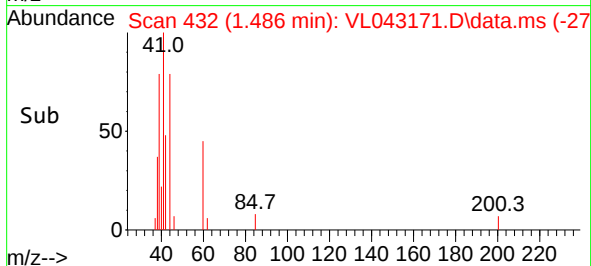
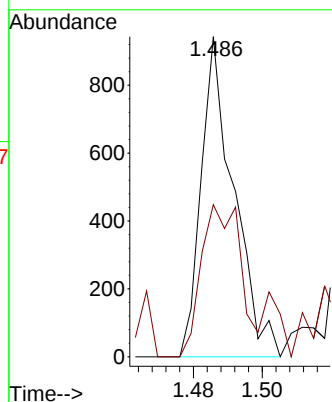
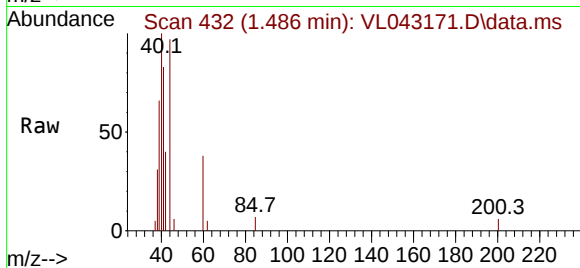
141-SG-2DL

Tgt Ion: 41 Resp: 620

Ion Ratio Lower Upper

41 100

42 95.5 55.1 82.7#



#13

Ethanol

Concen: 1.272 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043171.D

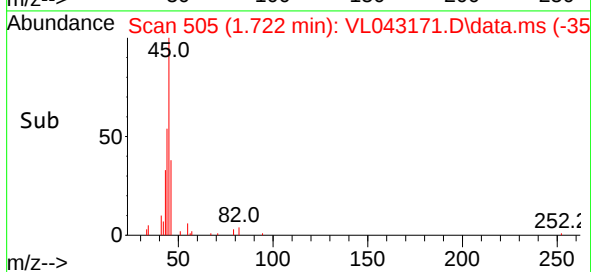
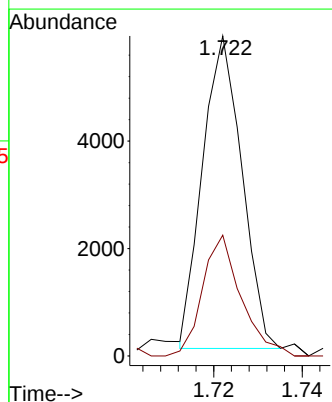
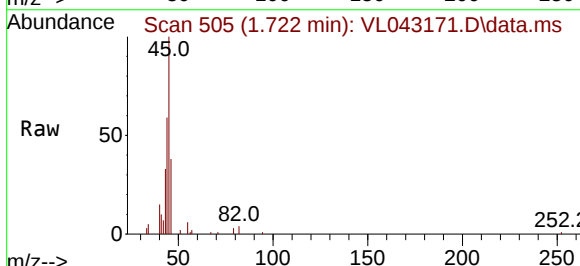
Acq: 06 Nov 2025 17:03

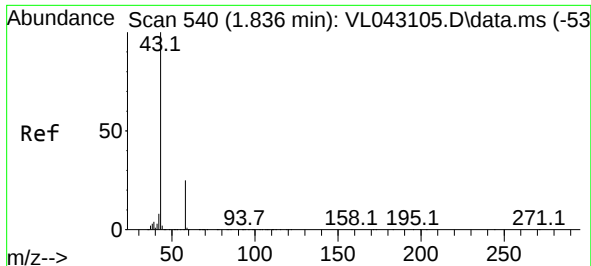
Tgt Ion: 45 Resp: 3586

Ion Ratio Lower Upper

45 100

46 39.4 14.7 58.9





#15

Acetone

Concen: 7.674 ppbv

RT: 1.835 min Scan# 540

Delta R.T. -0.000 min

Lab File: VL043171.D

Acq: 06 Nov 2025 17:03

Instrument :

MSVOA_L

ClientSampleId :

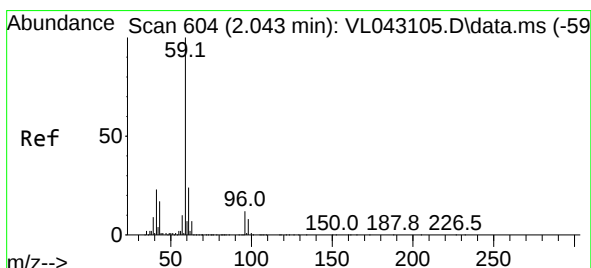
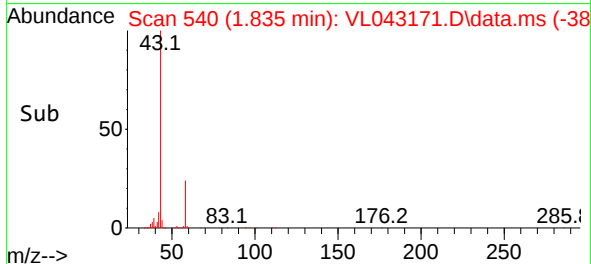
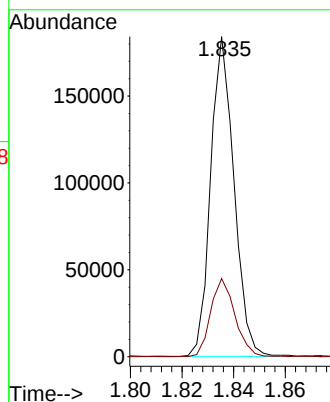
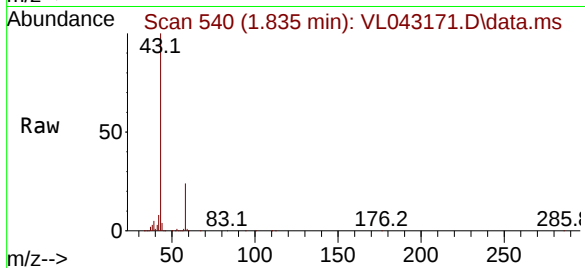
141-SG-2DL

Tgt Ion: 43 Resp: 115569

Ion Ratio Lower Upper

43 100

58 25.6 20.8 31.2



#17

tert-Butyl alcohol

Concen: 0.114 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.003 min

Lab File: VL043171.D

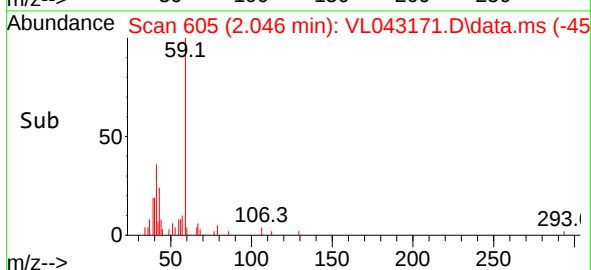
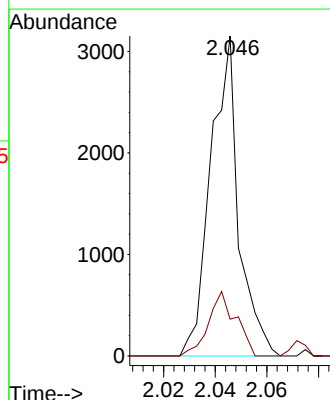
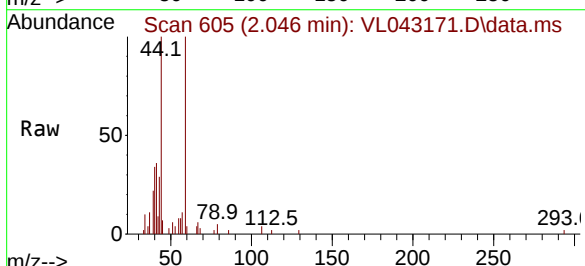
Acq: 06 Nov 2025 17:03

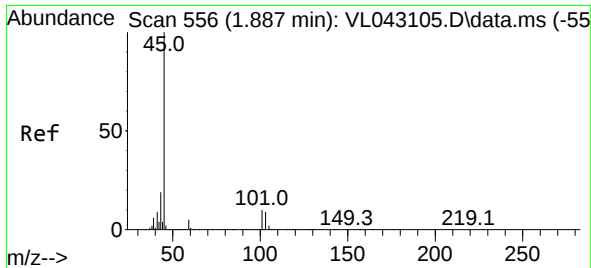
Tgt Ion: 59 Resp: 2365

Ion Ratio Lower Upper

59 100

57 19.7 8.2 12.4#

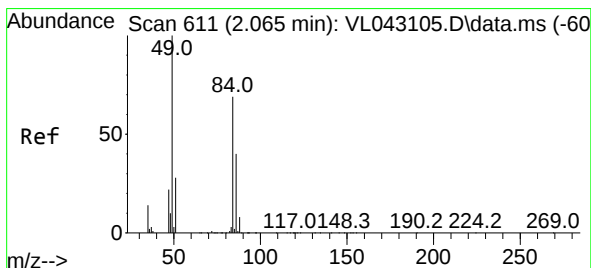
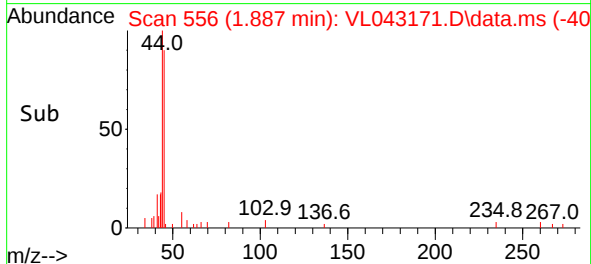
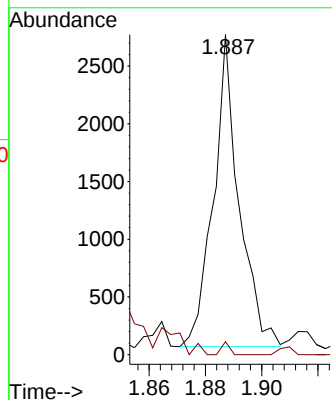
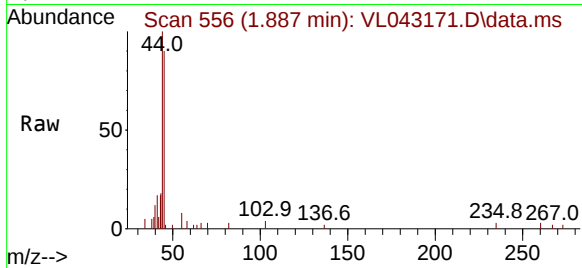




#19
Isopropyl Alcohol
Concen: 0.182 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

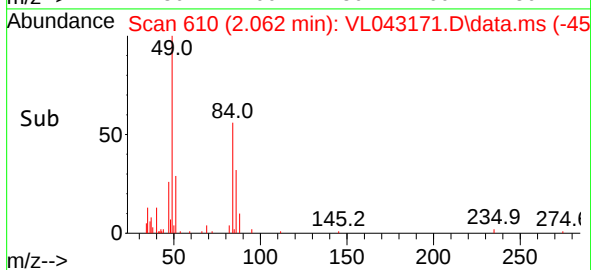
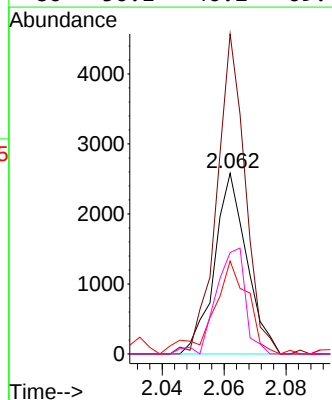
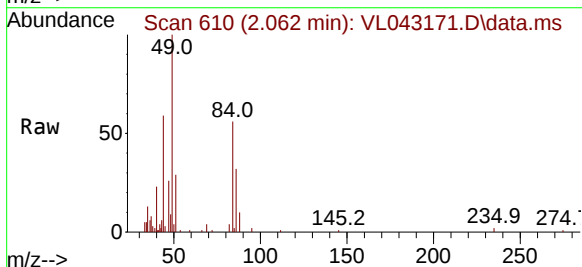
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

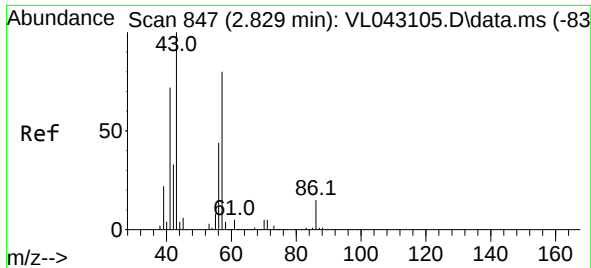
Tgt Ion: 45 Resp: 1703
Ion Ratio Lower Upper
45 100
58 1732.9 31.3 46.9#



#20
Methylene Chloride
Concen: 0.314 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 84 Resp: 1868
Ion Ratio Lower Upper
84 100
49 177.1 116.6 175.0#
51 51.4 34.8 52.2
86 56.1 46.2 69.4

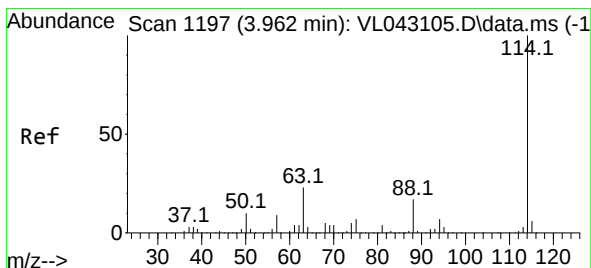
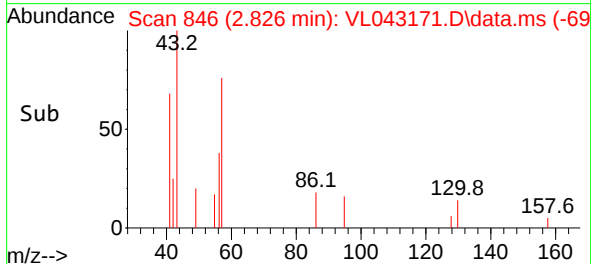
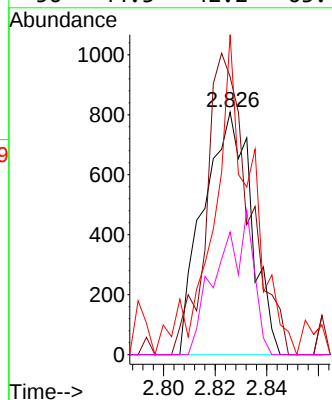
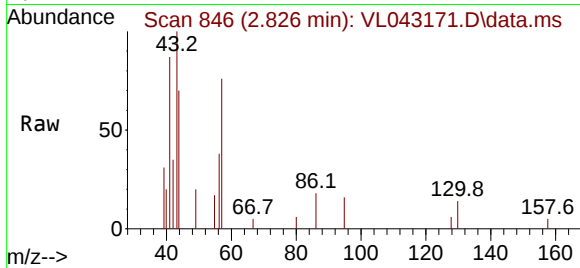




#26
Hexane
Concen: 0.060 ppbv
RT: 2.826 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

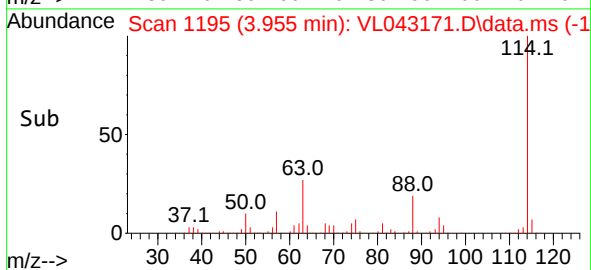
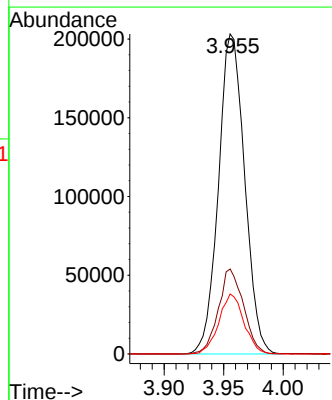
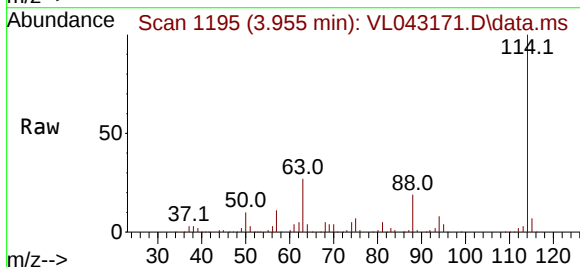
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

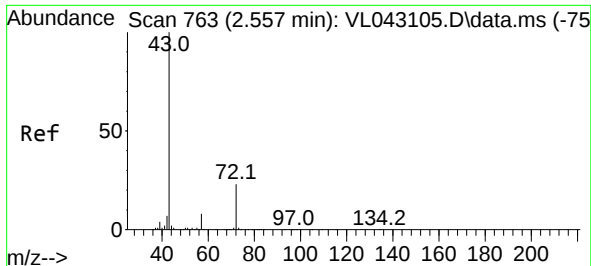
Tgt Ion: 57 Resp: 1039
Ion Ratio Lower Upper
57 100
41 116.0 71.4 107.0#
43 113.8 178.5 267.7#
56 44.3 42.2 63.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 114 Resp: 310352
Ion Ratio Lower Upper
114 100
63 25.6 19.3 28.9
88 17.9 13.9 20.9

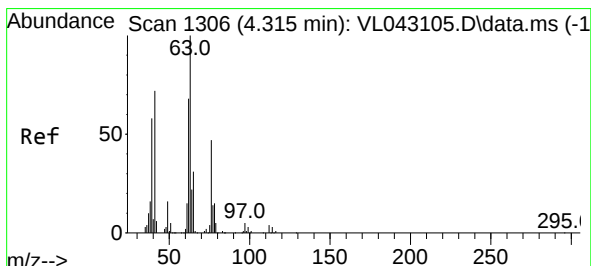
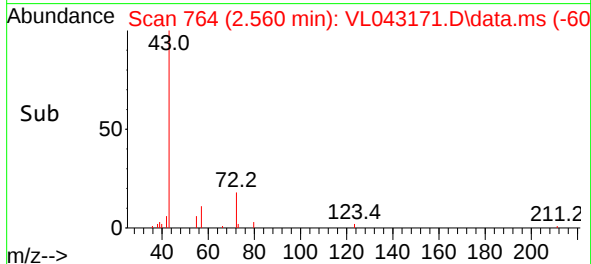
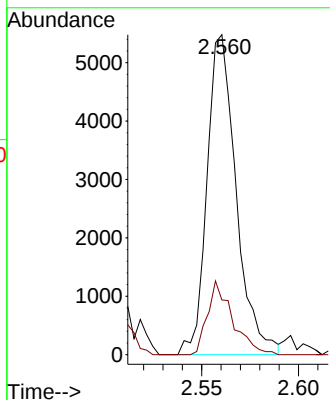
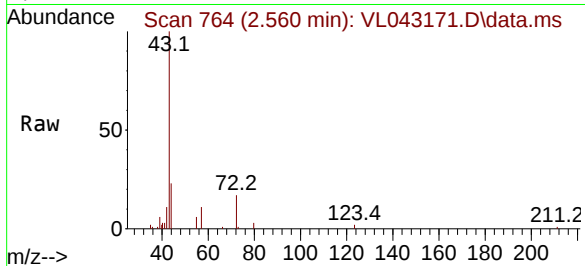




#34
2-Butanone
Concen: 0.275 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

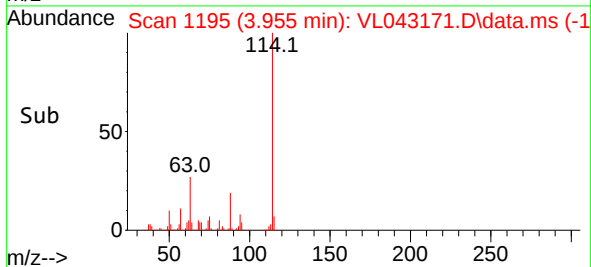
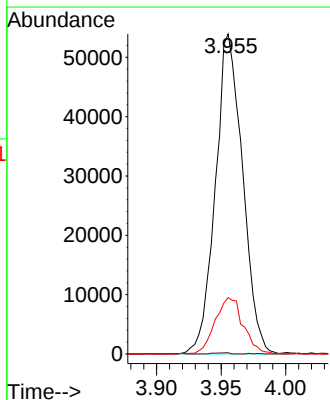
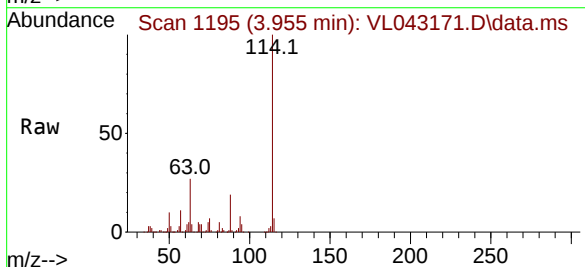
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

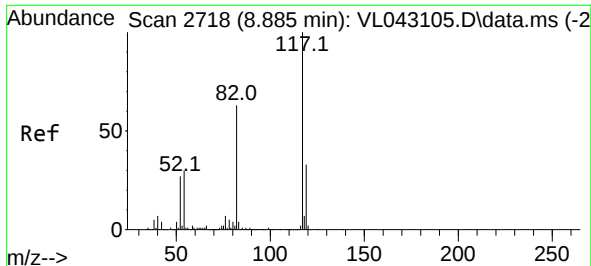
Tgt Ion: 43 Resp: 5741
Ion Ratio Lower Upper
43 100
72 19.9 18.4 27.6



#39
1,2-Dichloropropane
Concen: 7.394 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.360 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 63 Resp: 79016
Ion Ratio Lower Upper
63 100
41 0.4 58.0 87.0#
62 17.6 54.7 82.1#

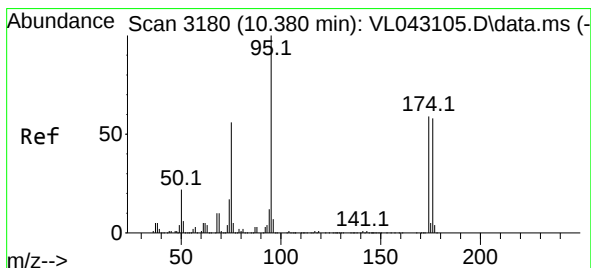
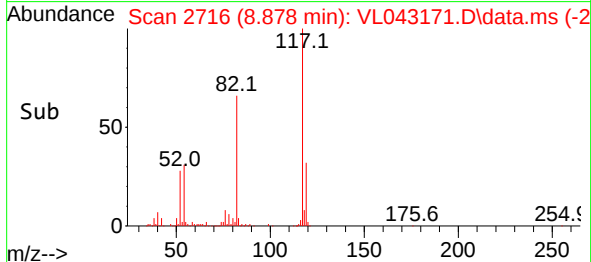
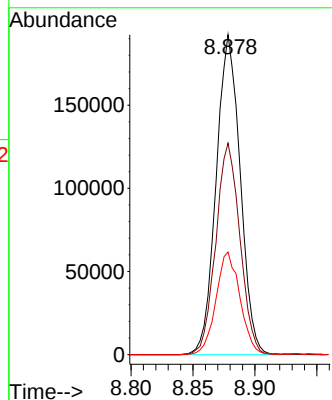
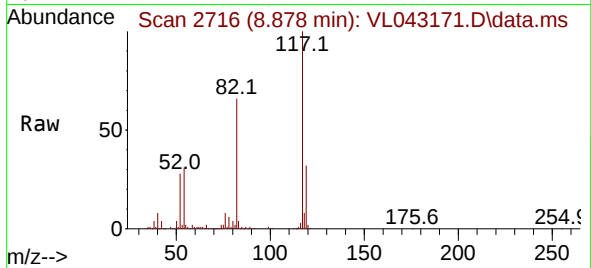




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2DL

Tgt Ion:117 Resp: 260144
Ion Ratio Lower Upper
117 100
82 66.4 53.8 80.8
119 32.2 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.107 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043171.D
Acq: 06 Nov 2025 17:03

Tgt Ion: 95 Resp: 204363
Ion Ratio Lower Upper
95 100
174 63.1 48.3 72.5
175 4.6 3.8 5.8

