

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042907.D
 Acq On : 08 Sep 2025 17:09
 Operator : SY/MD
 Sample : QC090425 CAN 10158
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC090425 CAN 10158

Quant Time: Sep 09 00:58:10 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 : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	136294	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	340722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	282979	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	208804	9.839	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue

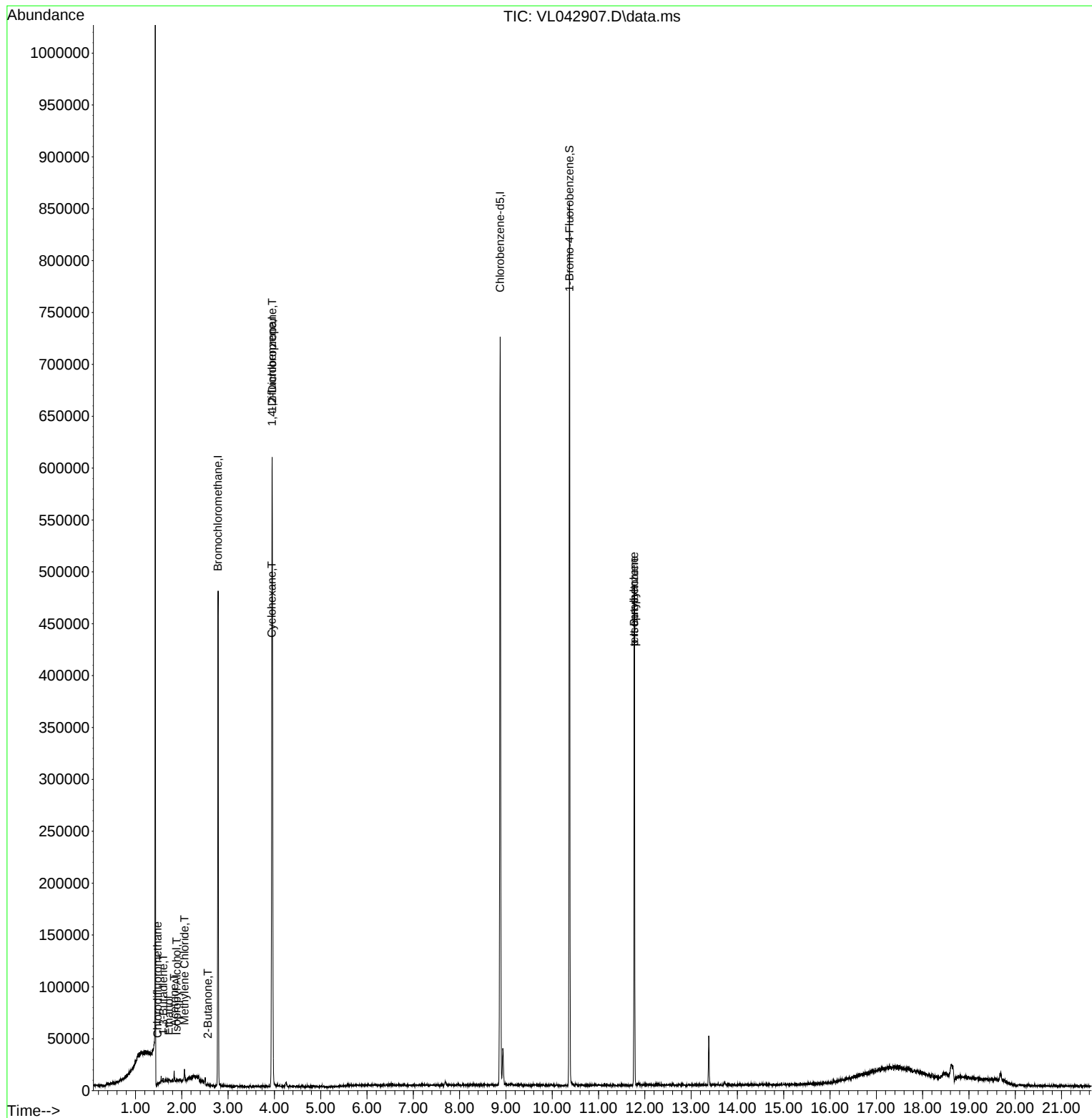
3) Chlorodifluoromethane	1.476	51	764	0.035	ppbv	100
13) Ethanol	1.719	45	283	0.325	ppbv	74
15) Acetone	1.835	43	3934	0.218	ppbv #	56
16) 1,3-Butadiene	1.599	39	297	0.036	ppbv #	10
19) Isopropyl Alcohol	1.887	45	570	0.053	ppbv #	1
20) Methylene Chloride	2.059	84	1647	0.218	ppbv #	92
30) Cyclohexane	3.942	84	788	0.045	ppbv #	1
34) 2-Butanone	2.560	43	1434	0.062	ppbv #	83
39) 1,2-Dichloropropane	3.952	63	88733	7.446	ppbv #	26
65) tert-Butylbenzene	11.769	119	4436	0.087	ppbv #	21
69) p-Isopropyltoluene	11.769	119	4417	0.072	ppbv #	58

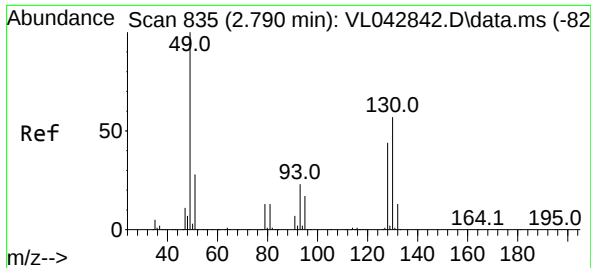
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 09 00:58:10 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 : Tue Sep 09 00:52:26 2025
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.781 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042907.D

Acq: 08 Sep 2025 17:09

Instrument :

MSVOA_L

ClientSampleId :

QC090425 CAN 10158

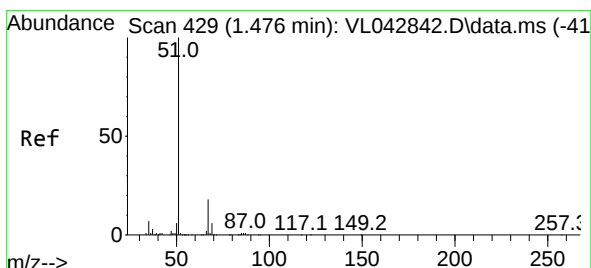
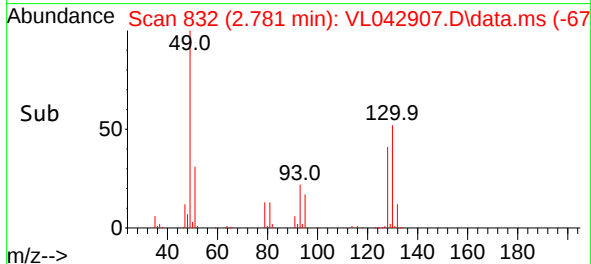
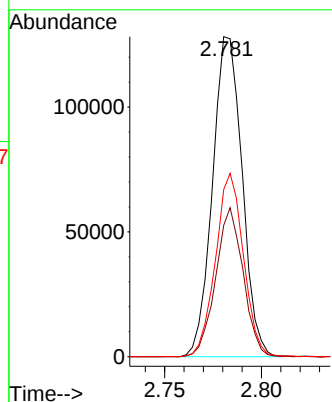
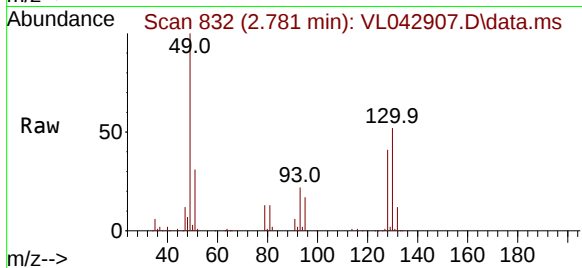
Tgt Ion: 49 Resp: 136294

Ion Ratio Lower Upper

49 100

128 43.1 23.7 71.1

130 54.2 30.6 91.6



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.006 min

Lab File: VL042907.D

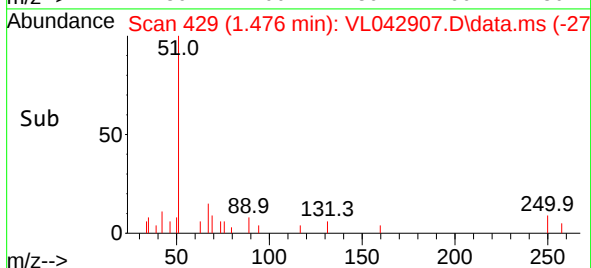
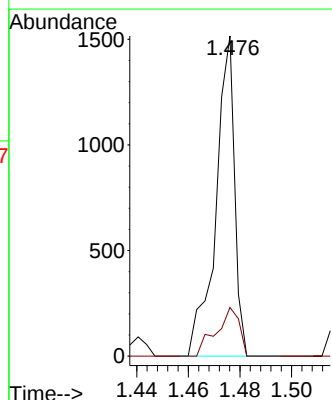
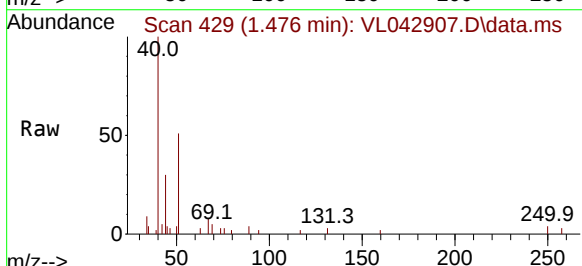
Acq: 08 Sep 2025 17:09

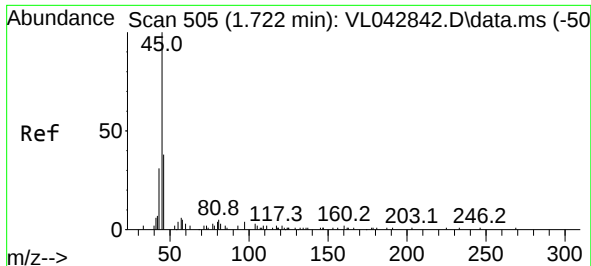
Tgt Ion: 51 Resp: 764

Ion Ratio Lower Upper

51 100

67 18.6 14.9 22.3

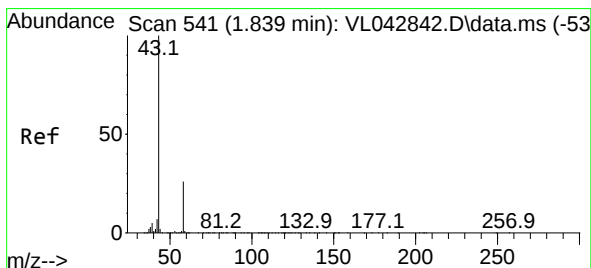
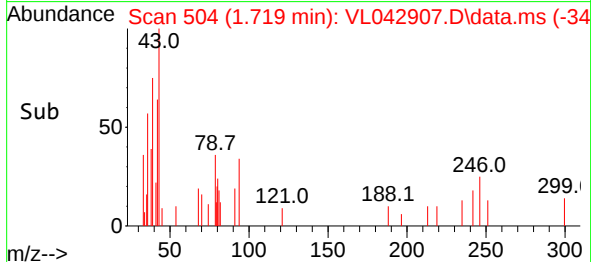
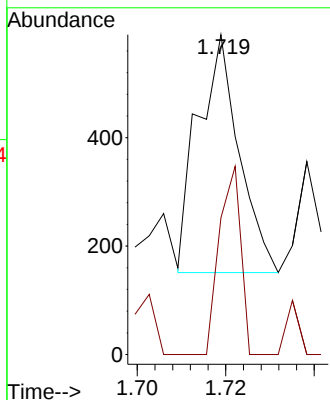
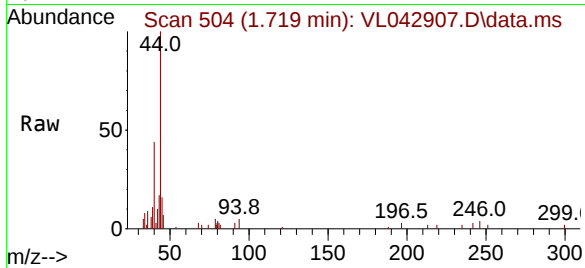




#13
Ethanol
Concen: 0.325 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

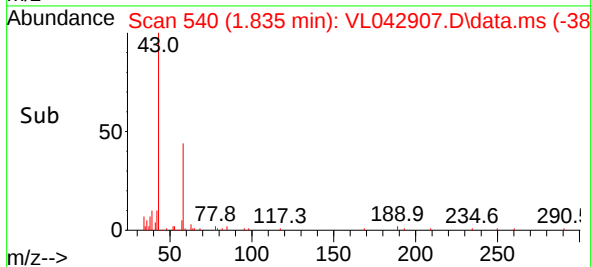
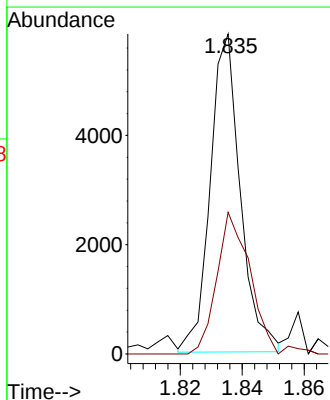
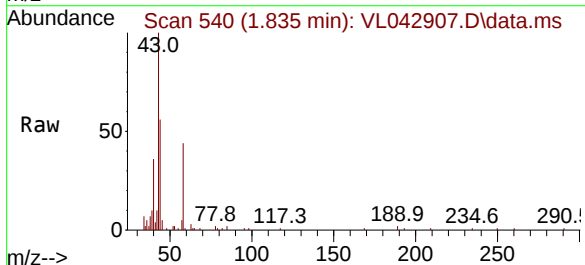
Instrument :
MSVOA_L
ClientSampleId :
QC090425 CAN 10158

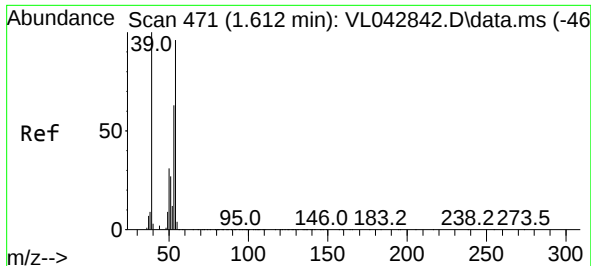
Tgt Ion: 45 Resp: 283
Ion Ratio Lower Upper
45 100
46 60.8 17.5 69.9



#15
Acetone
Concen: 0.218 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

Tgt Ion: 43 Resp: 3934
Ion Ratio Lower Upper
43 100
58 50.9 22.4 33.6#

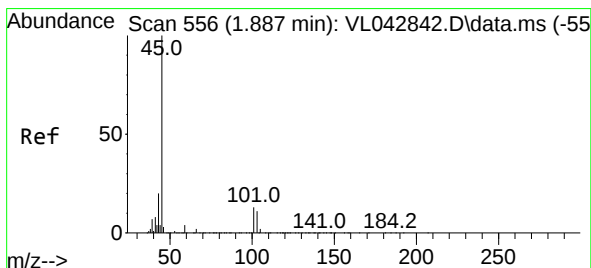
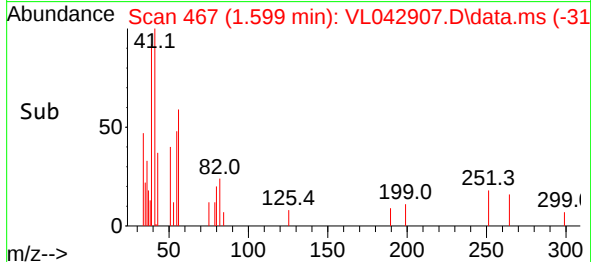
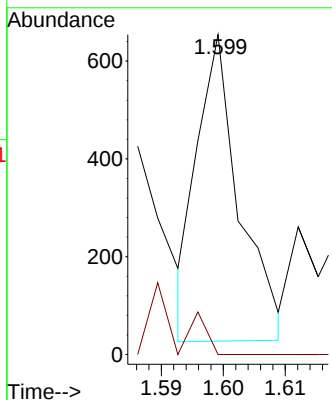
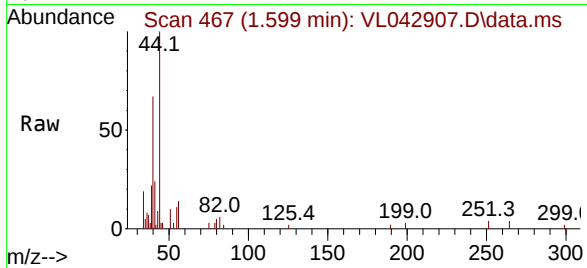




#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

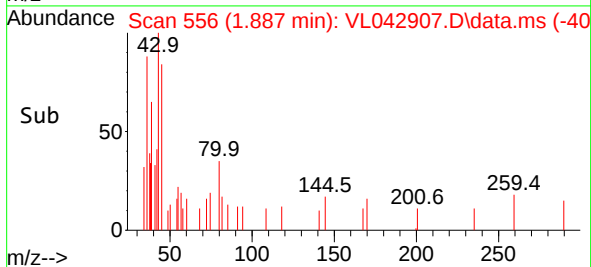
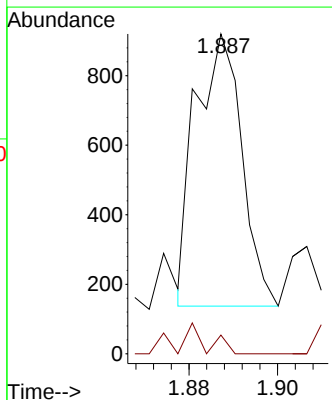
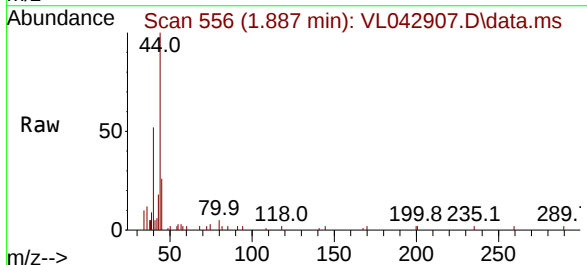
Instrument :
MSVOA_L
ClientSampleId :
QC090425 CAN 10158

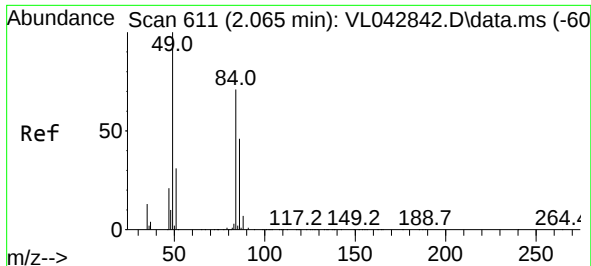
Tgt Ion: 39 Resp: 297
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#19
Isopropyl Alcohol
Concen: 0.053 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.006 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

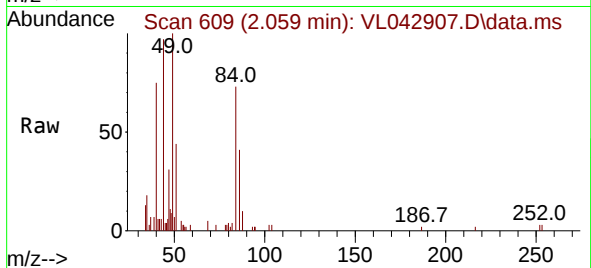
Tgt Ion: 45 Resp: 570
Ion Ratio Lower Upper
45 100
58 348.2 32.7 49.1#



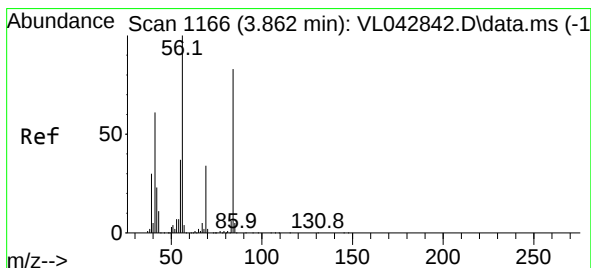
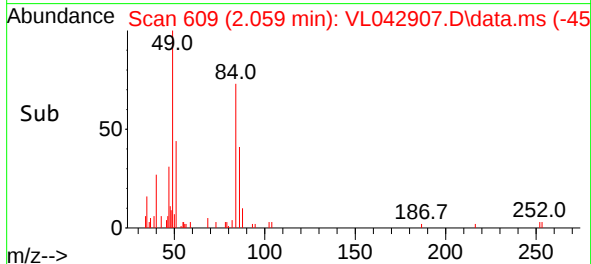
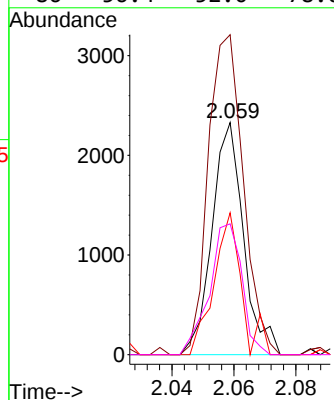


#20
Methylene Chloride
Concen: 0.218 ppbv
RT: 2.059 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

Instrument :
MSVOA_L
ClientSampleId :
QC090425 CAN 10158

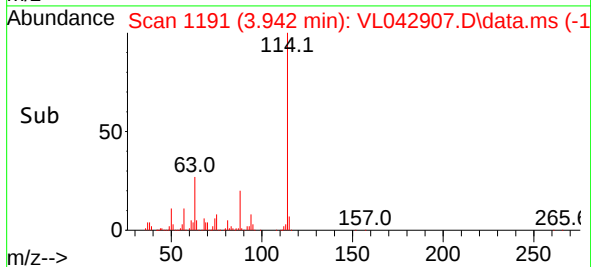
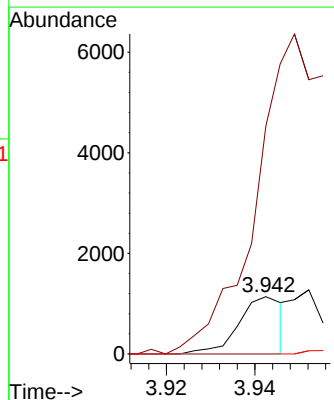
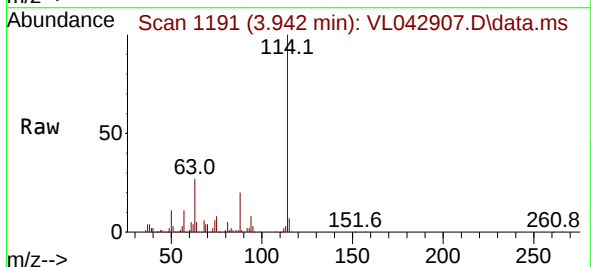


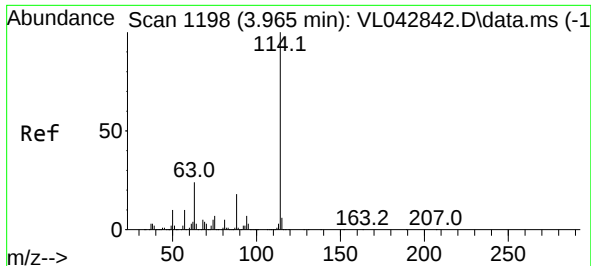
Tgt Ion:	84	Resp:	1647
Ion	Ratio	Lower	Upper
84	100		
49	137.9	112.3	168.5
51	61.1	36.0	54.0#
86	56.4	52.0	78.0



#30
Cyclohexane
Concen: 0.045 ppbv
RT: 3.942 min Scan# 1191
Delta R.T. 0.100 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

Tgt Ion:	84	Resp:	788
Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.8	148.2#
41	5.8	61.3	91.9#

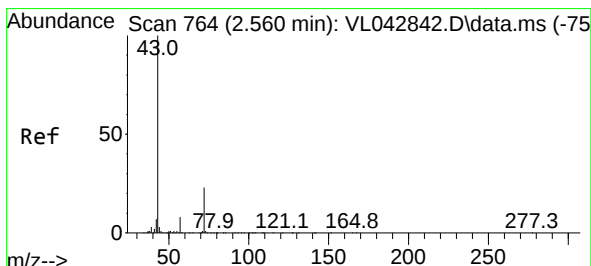
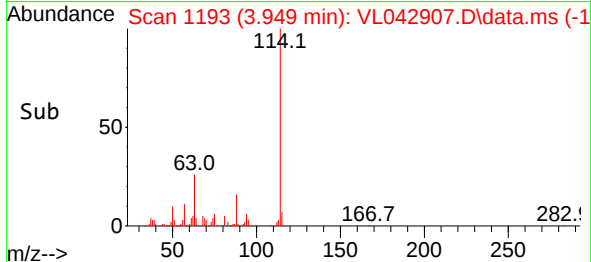
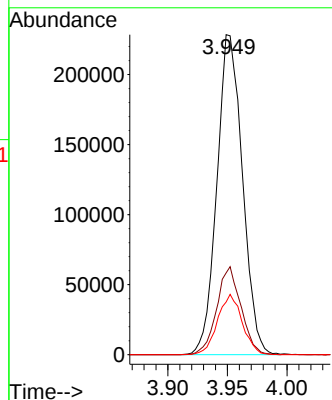
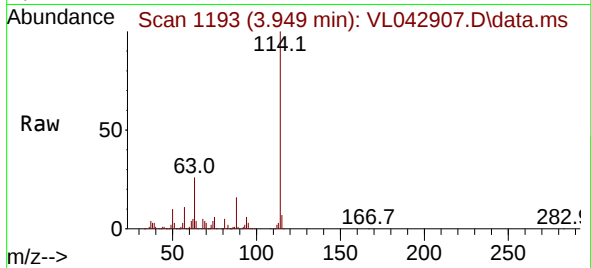




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

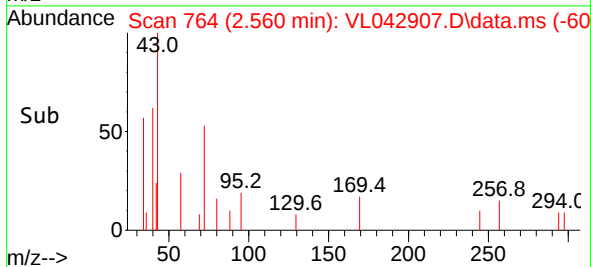
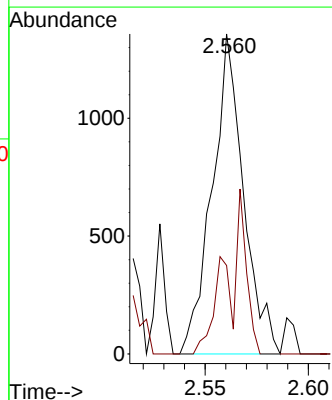
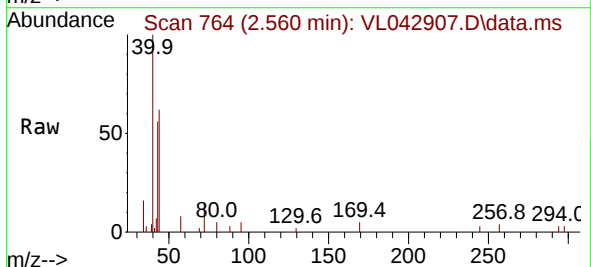
Instrument :
MSVOA_L
ClientSampleId :
QC090425 CAN 10158

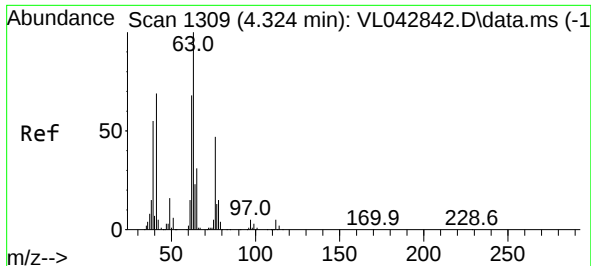
Tgt Ion:114 Resp: 340722
Ion Ratio Lower Upper
114 100
63 26.1 19.7 29.5
88 18.2 14.4 21.6



#34
2-Butanone
Concen: 0.062 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.013 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

Tgt Ion: 43 Resp: 1434
Ion Ratio Lower Upper
43 100
72 31.5 18.6 28.0#





#39

1,2-Dichloropropane

Concen: 7.446 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.346 min

Lab File: VL042907.D

Acq: 08 Sep 2025 17:09

Instrument :

MSVOA_L

ClientSampleId :

QC090425 CAN 10158

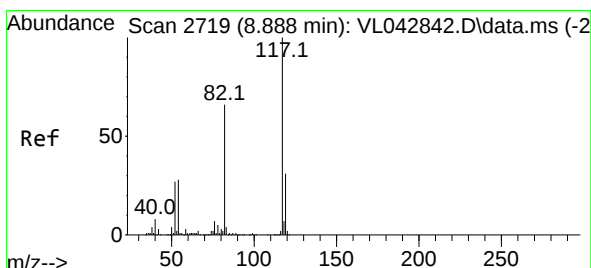
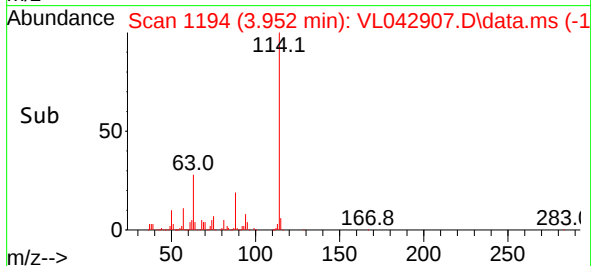
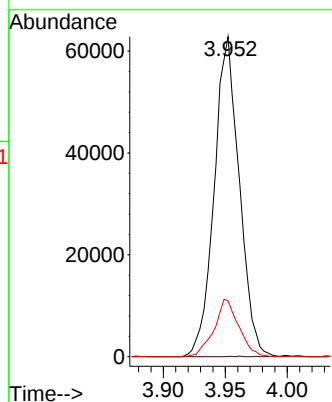
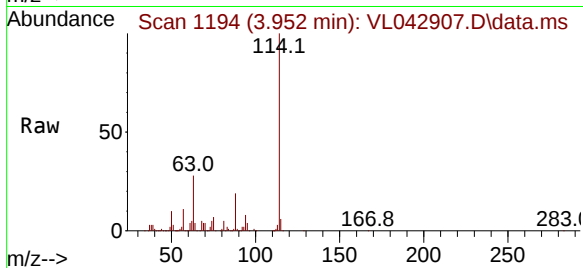
Tgt Ion: 63 Resp: 88733

Ion Ratio Lower Upper

63 100

41 0.1 55.0 82.4#

62 17.4 54.4 81.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042907.D

Acq: 08 Sep 2025 17:09

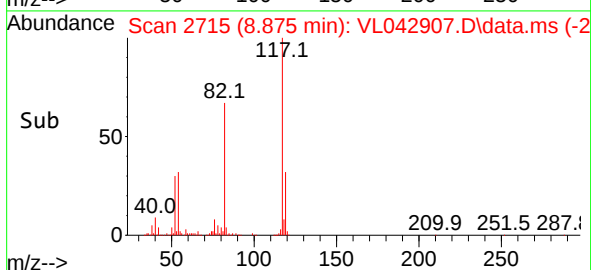
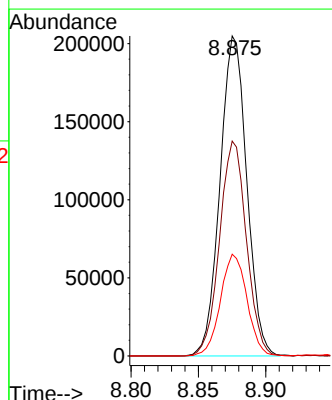
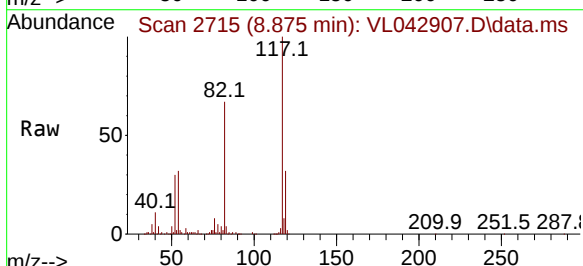
Tgt Ion: 117 Resp: 282979

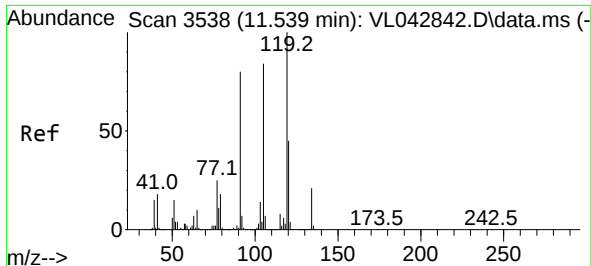
Ion Ratio Lower Upper

117 100

82 67.4 54.6 81.8

119 31.6 25.9 38.9

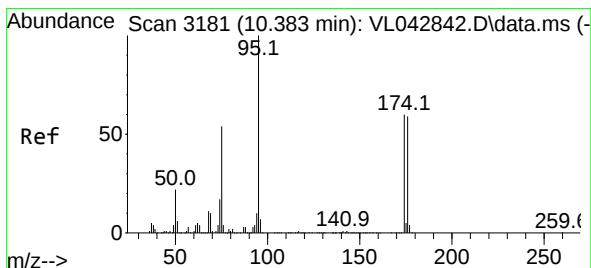
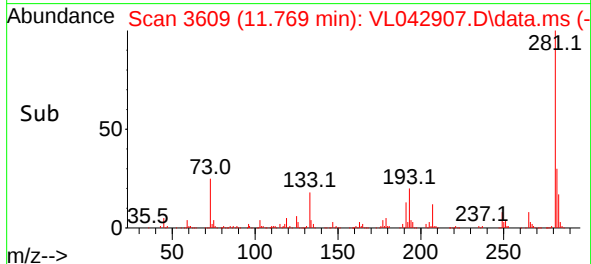
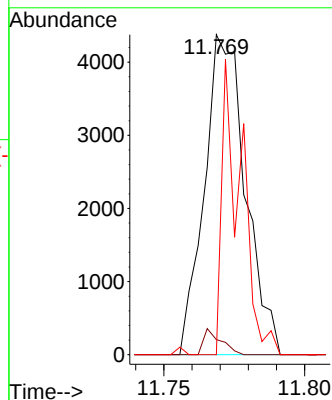
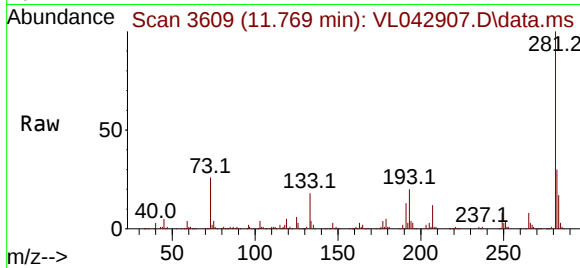




#65
tert-Butylbenzene
Concen: 0.087 ppbv
RT: 11.769 min Scan# 30
Delta R.T. 0.246 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

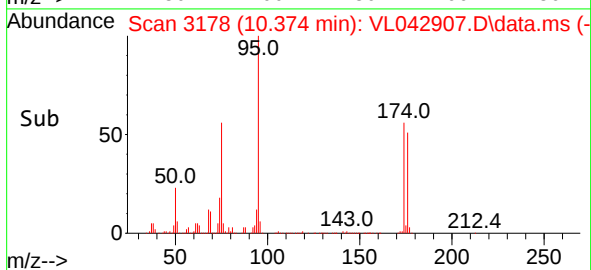
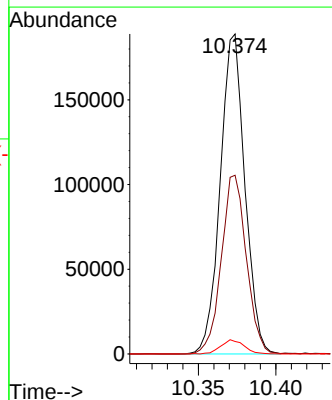
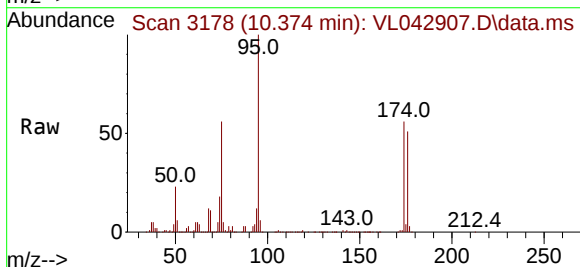
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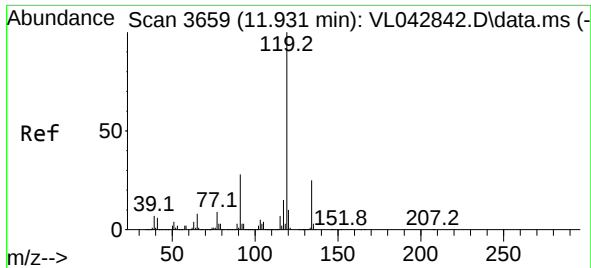
Tgt Ion:119 Resp: 4436
Ion Ratio Lower Upper
119 100
91 3.4 63.9 95.9#
134 43.8 17.0 25.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.839 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042907.D
Acq: 08 Sep 2025 17:09

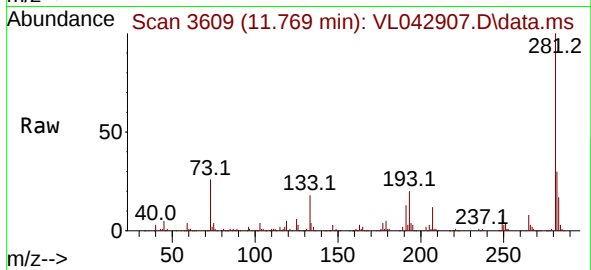
Tgt Ion: 95 Resp: 208804
Ion Ratio Lower Upper
95 100
174 56.9 48.4 72.6
175 4.2 3.8 5.8





#69
 p-Isopropyltoluene
 Concen: 0.072 ppbv
 RT: 11.769 min Scan# 30
 Delta R.T. -0.149 min
 Lab File: VL042907.D
 Acq: 08 Sep 2025 17:09

Instrument :
 MSVOA_L
 ClientSampleId :
 QC090425 CAN 10158



Tgt Ion:119 Resp: 4417
 Ion Ratio Lower Upper
 119 100
 134 44.4 20.6 30.8#
 91 3.4 22.6 34.0#

