

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080725\
 Data File : VL042829.D
 Acq On : 07 Aug 2025 12:07
 Operator : SY/MD
 Sample : QC072925 CAN 10283
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC072925 CAN 10283

Quant Time: Aug 08 01:15:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

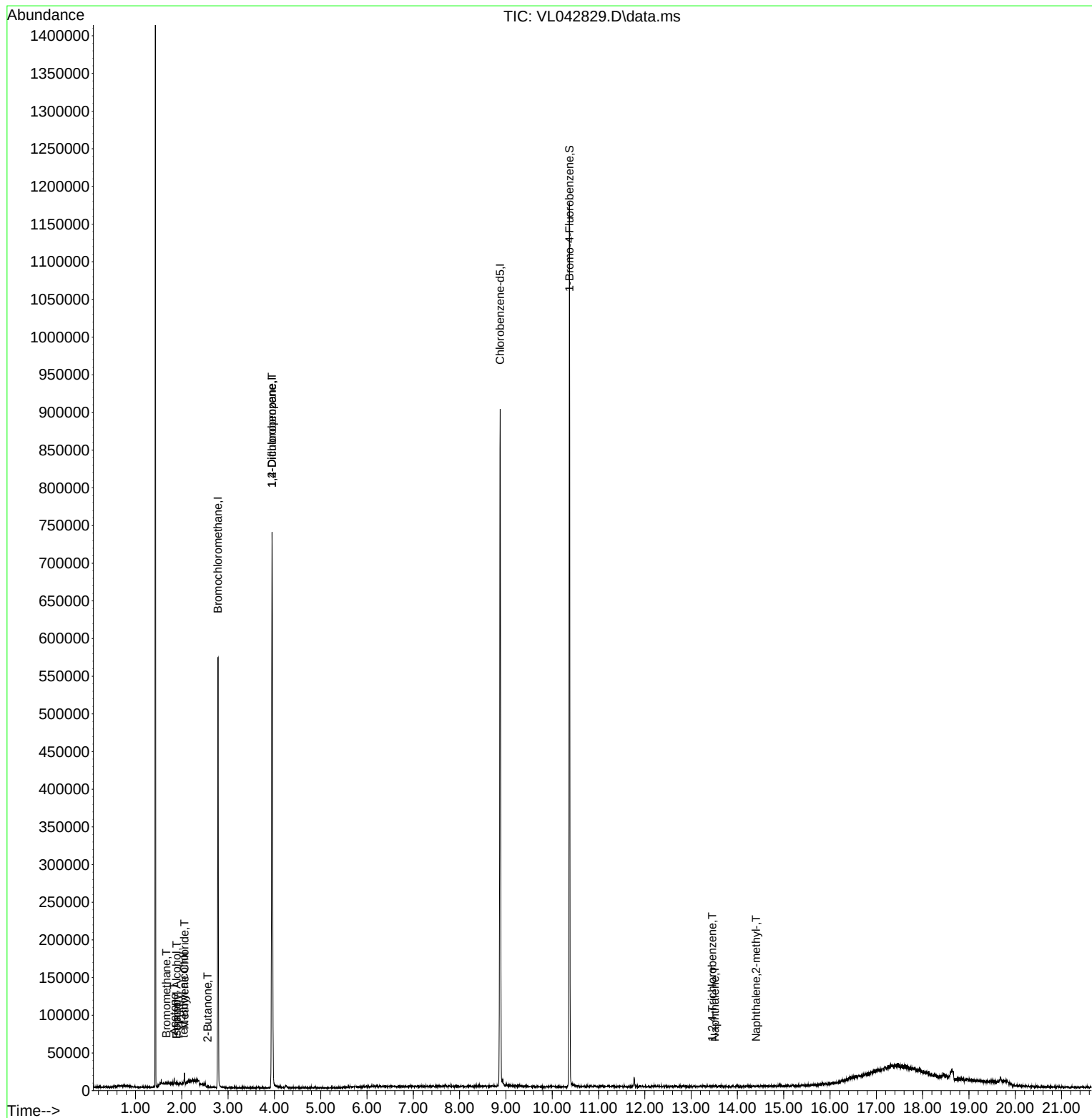
Internal Standards						
1) Bromochloromethane	2.780	49	156318	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	402032	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	341032	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	262402	9.716	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
6) Bromomethane	1.667	94	102	0.032	ppbv #	1
13) Ethanol	1.887	45	954	0.187	ppbv #	31
15) Acetone	1.835	43	3311	0.153	ppbv #	64
17) tert-Butyl alcohol	2.042	59	611	0.031	ppbv #	72
19) Isopropyl Alcohol	1.887	45	954	0.083	ppbv #	1
20) Methylene Chloride	2.059	84	1971	0.290	ppbv #	76
34) 2-Butanone	2.557	43	881	0.031	ppbv #	54
39) 1,2-Dichloropropane	3.949	63	105677	7.514	ppbv #	21
79) Naphthalene	13.510	128	59	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.406	142	32	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.455	180	35	0.436	ppbv #	1

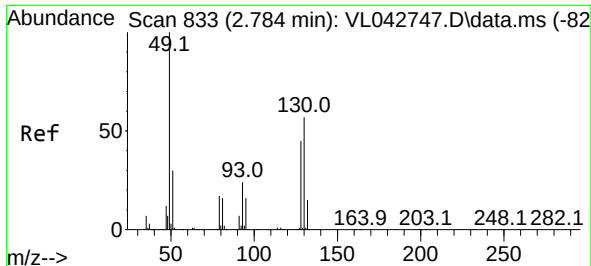
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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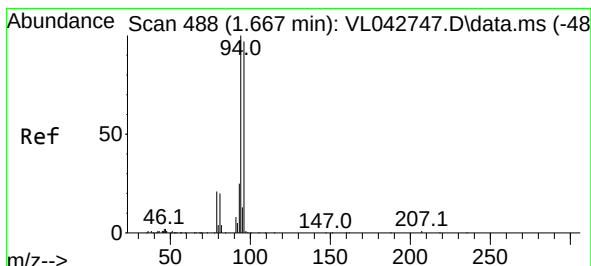
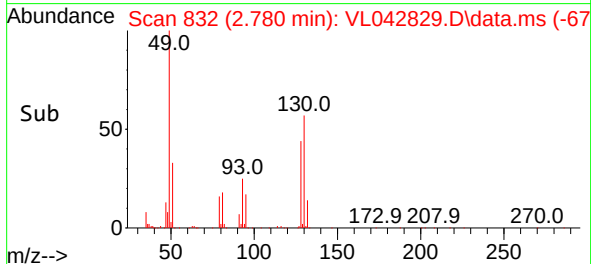
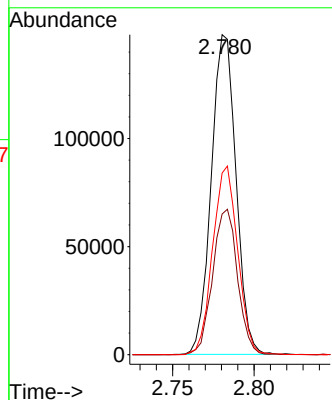
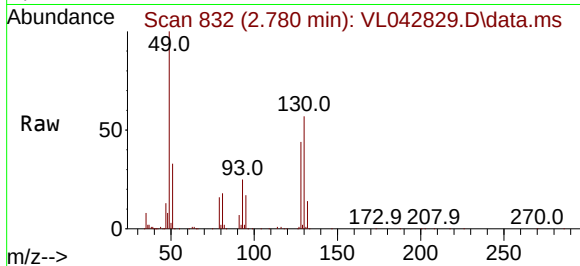




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

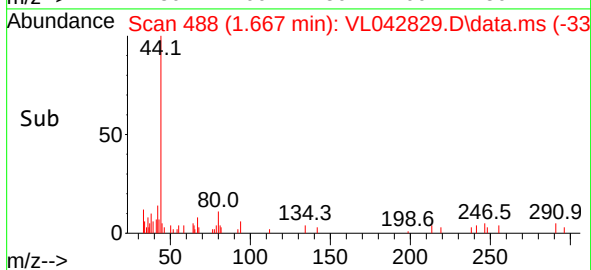
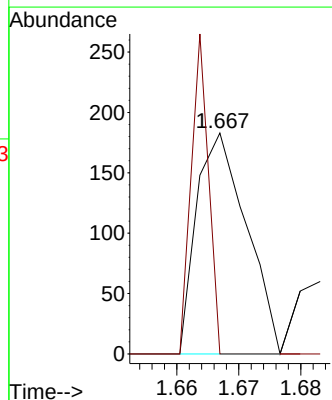
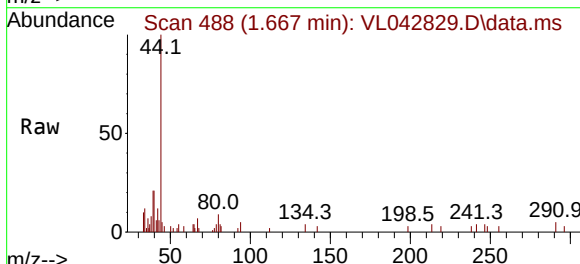
Instrument :
MSVOA_L
ClientSampleId :
QC072925 CAN 10283

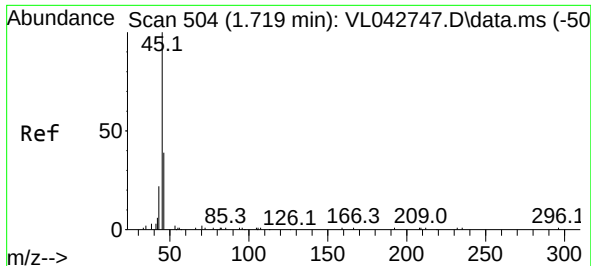
Tgt Ion: 49 Resp: 156318
Ion Ratio Lower Upper
49 100
128 45.9 23.6 71.0
130 59.5 30.3 90.8



#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

Tgt Ion: 94 Resp: 102
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#

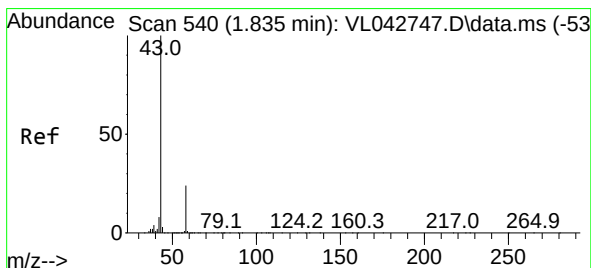
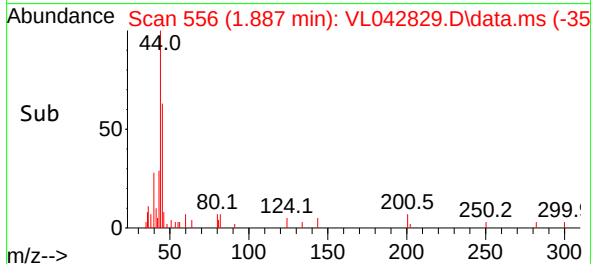
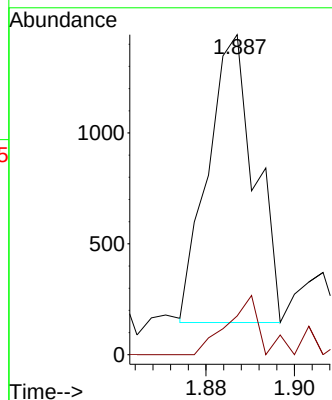
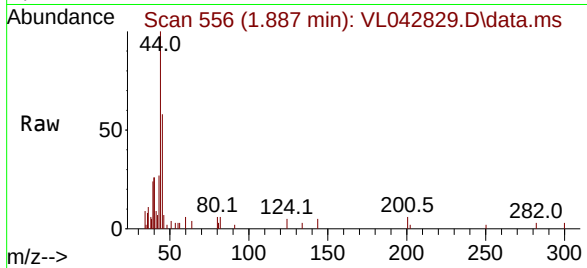




#13
 Ethanol
 Concen: 0.187 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.168 min
 Lab File: VL042829.D
 Acq: 07 Aug 2025 12:07

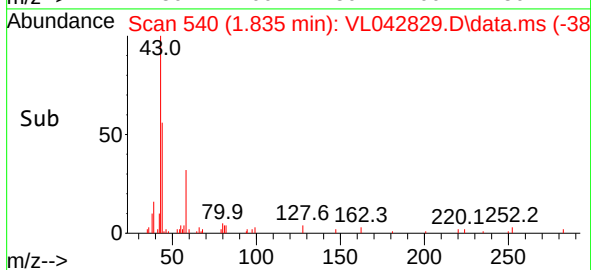
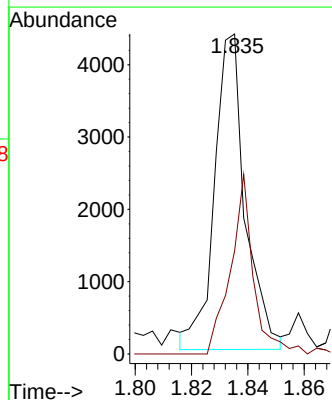
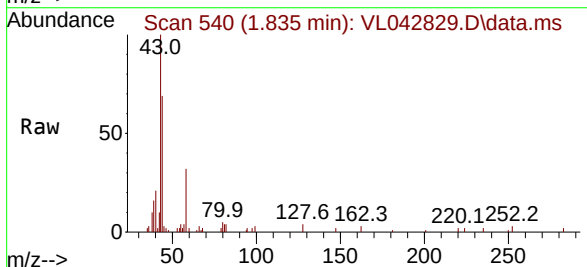
Instrument :
 MSVOA_L
 ClientSampleId :
 QC072925 CAN 10283

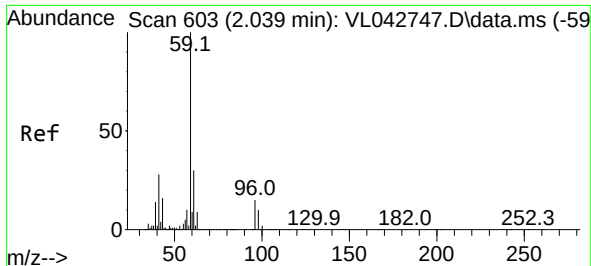
Tgt Ion: 45 Resp: 954
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.8 71.4#



#15
 Acetone
 Concen: 0.153 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: VL042829.D
 Acq: 07 Aug 2025 12:07

Tgt Ion: 43 Resp: 3311
 Ion Ratio Lower Upper
 43 100
 58 42.9 19.8 29.8#





#17

tert-Butyl alcohol

Concen: 0.031 ppbv

RT: 2.042 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042829.D

Acq: 07 Aug 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

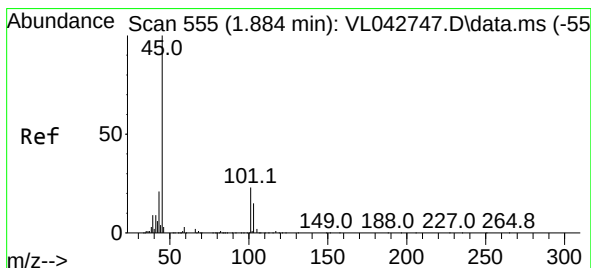
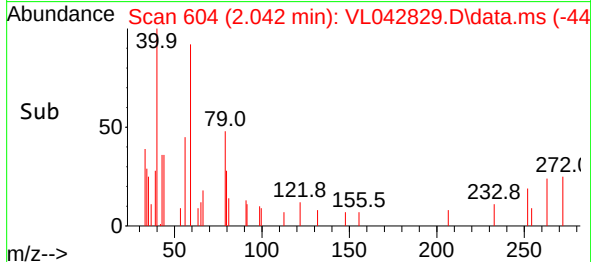
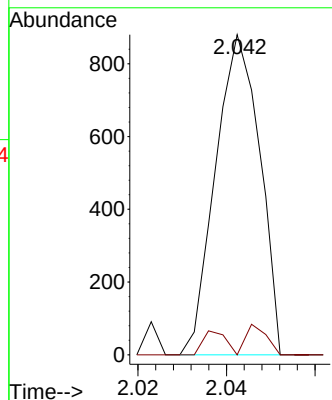
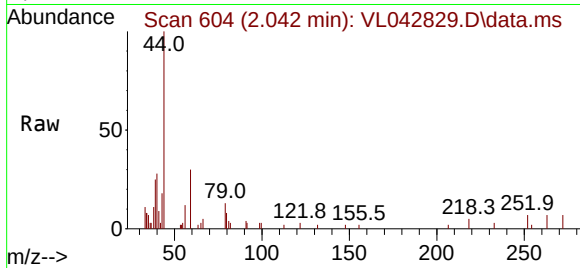
QC072925 CAN 10283

Tgt Ion: 59 Resp: 611

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.083 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042829.D

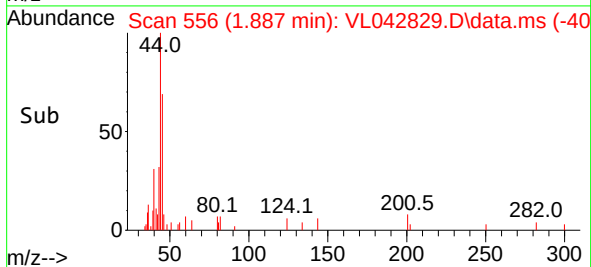
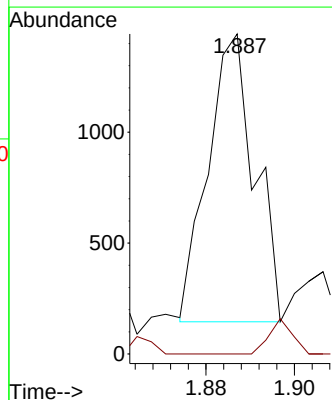
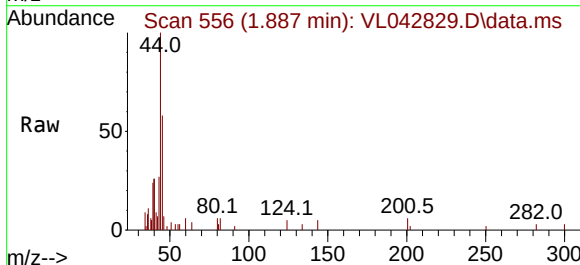
Acq: 07 Aug 2025 12:07

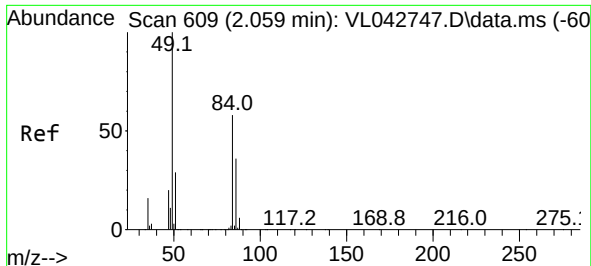
Tgt Ion: 45 Resp: 954

Ion Ratio Lower Upper

45 100

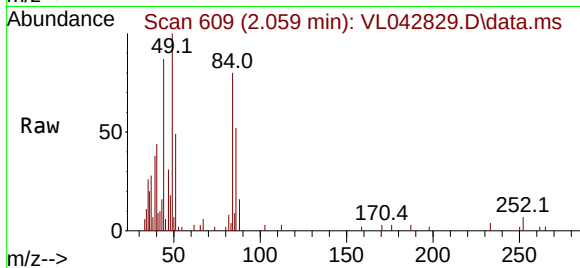
58 149.1 30.0 45.0#



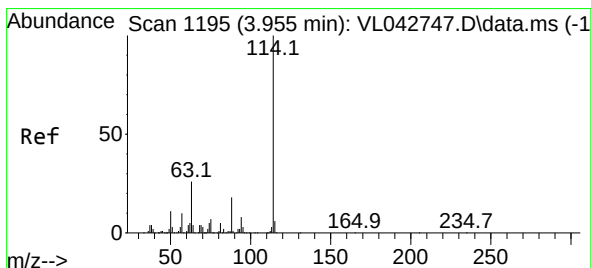
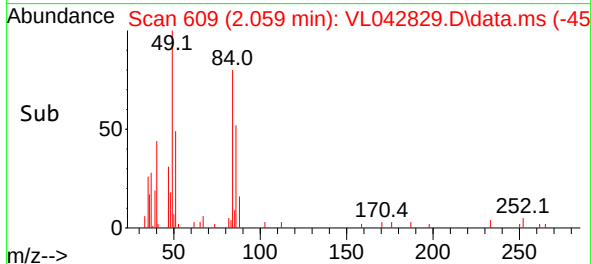
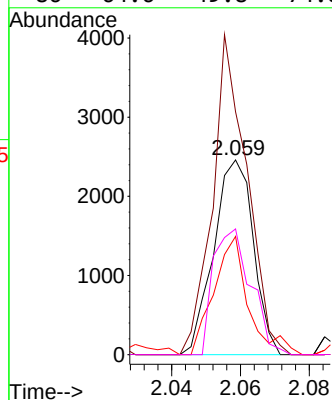


#20
Methylene Chloride
Concen: 0.290 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

Instrument :
MSVOA_1
ClientSampleId :
QC072925 CAN 10283

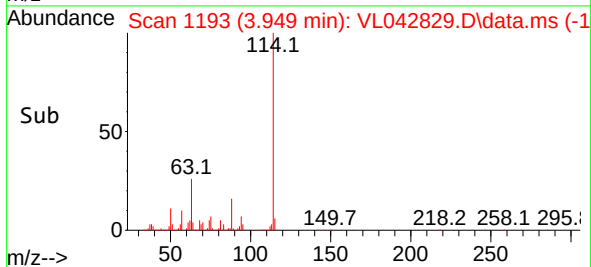
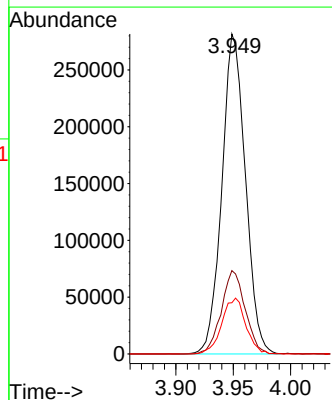
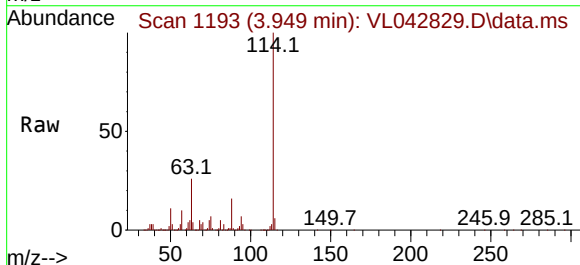


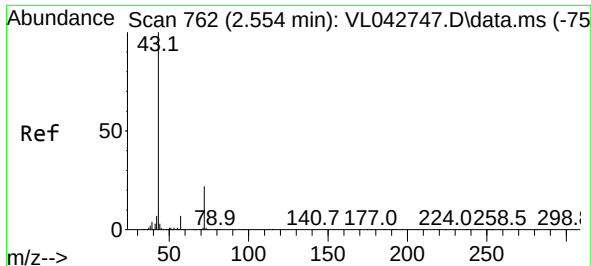
Tgt Ion: 84	Resp: 1971
Ion Ratio	Lower Upper
84 100	
49 124.8	138.6 208.0#
51 60.7	40.6 61.0
86 64.6	49.8 74.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.007 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

Tgt Ion:114	Resp:	402032	
Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.5	30.7
88	17.8	14.0	21.0

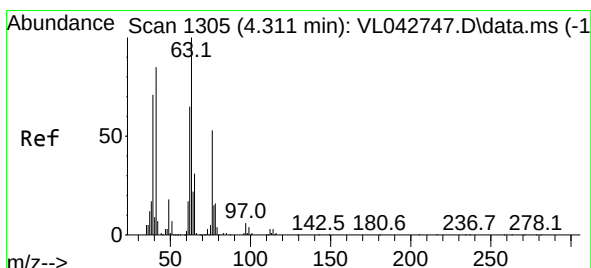
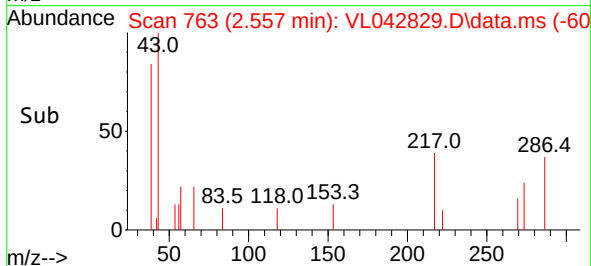
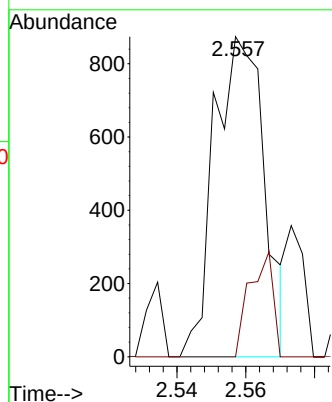
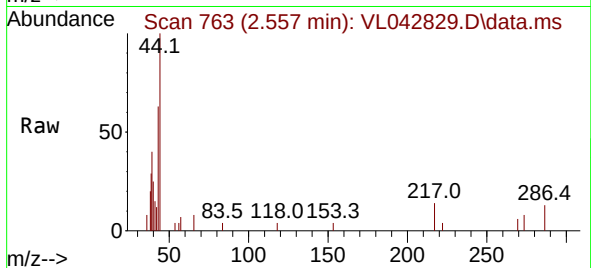




#34
2-Butanone
Concen: 0.031 ppbv
RT: 2.557 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

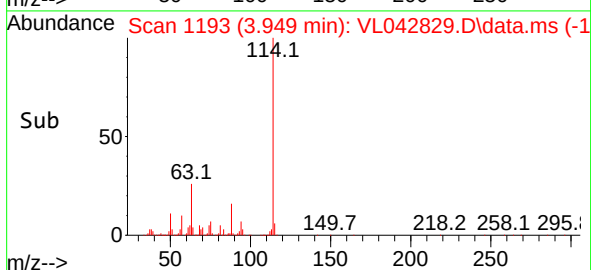
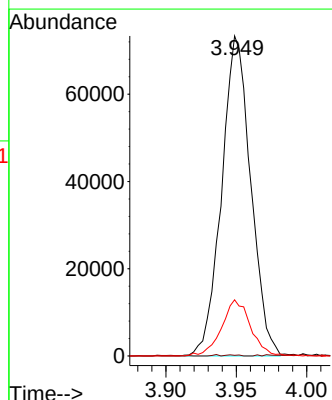
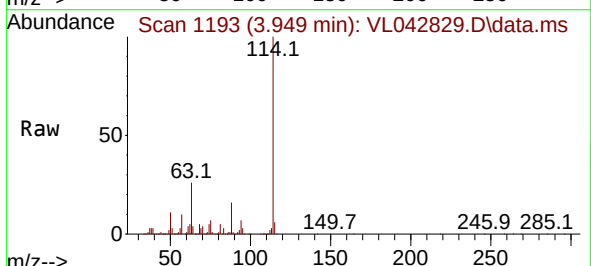
Instrument :
MSVOA_L
ClientSampleId :
QC072925 CAN 10283

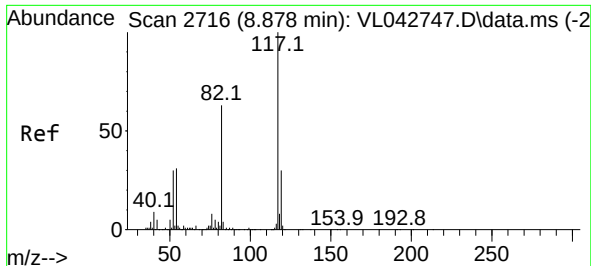
Tgt Ion: 43 Resp: 881
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.0#



#39
1,2-Dichloropropane
Concen: 7.514 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.363 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

Tgt Ion: 63 Resp: 105677
Ion Ratio Lower Upper
63 100
41 0.1 68.2 102.4#
62 17.6 52.0 78.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042829.D

Acq: 07 Aug 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

QC072925 CAN 10283

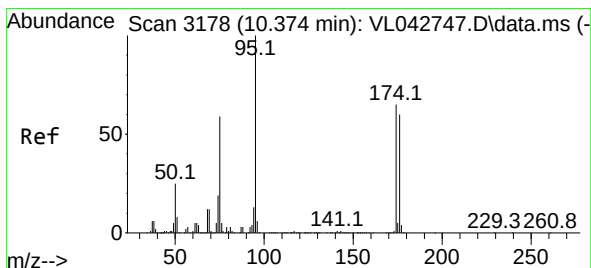
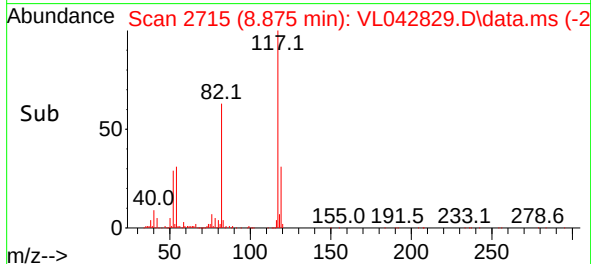
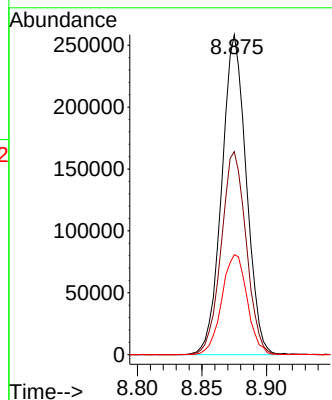
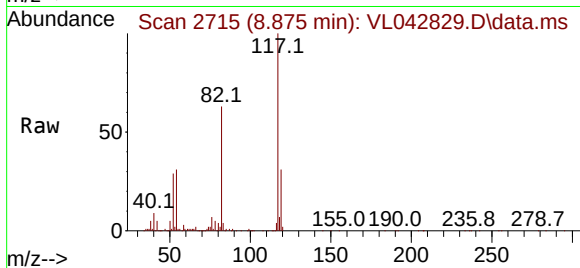
Tgt Ion:117 Resp: 341032

Ion Ratio Lower Upper

117 100

82 64.8 53.3 79.9

119 32.6 25.8 38.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.716 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.003 min

Lab File: VL042829.D

Acq: 07 Aug 2025 12:07

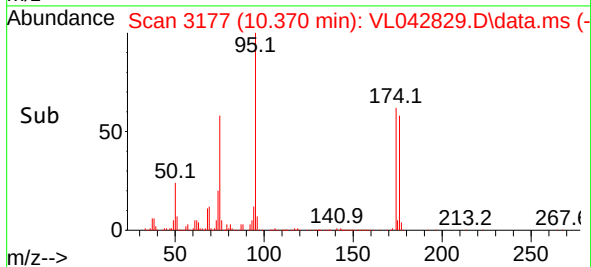
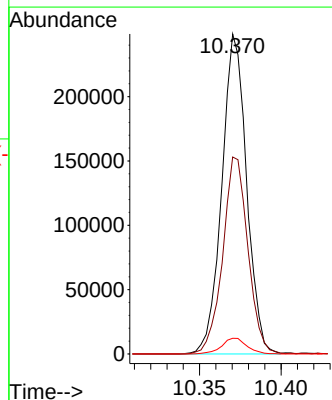
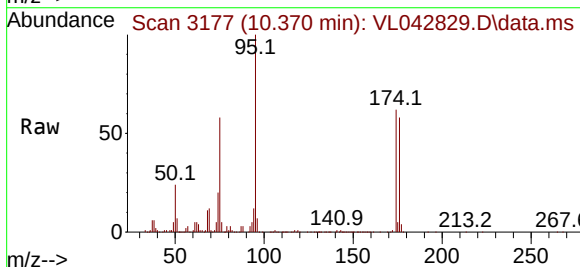
Tgt Ion: 95 Resp: 262402

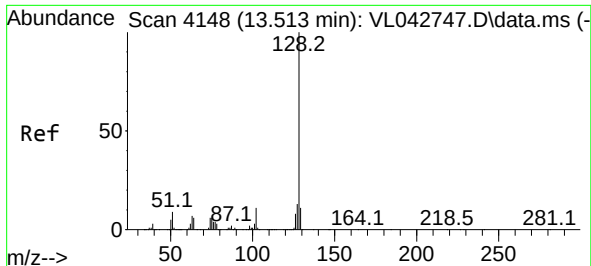
Ion Ratio Lower Upper

95 100

174 62.6 53.8 80.6

175 5.0 4.0 6.0

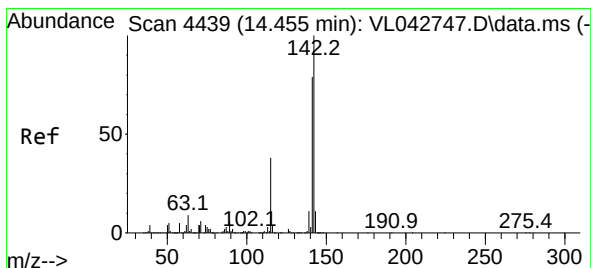
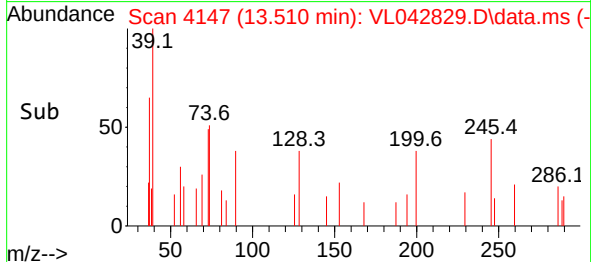
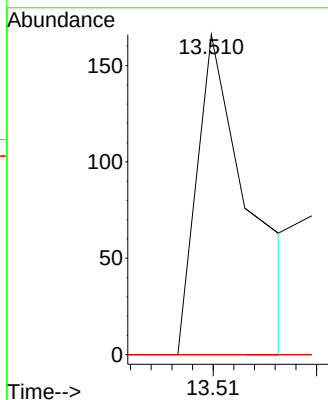
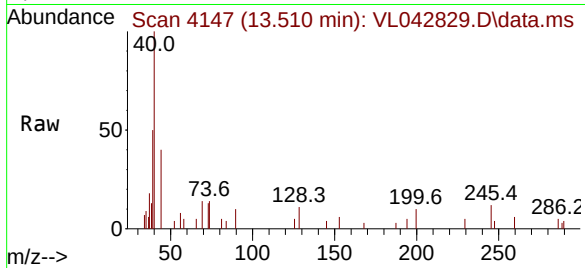




#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

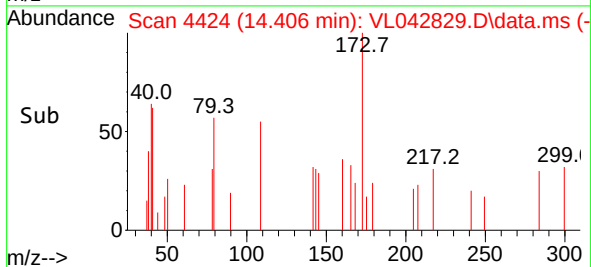
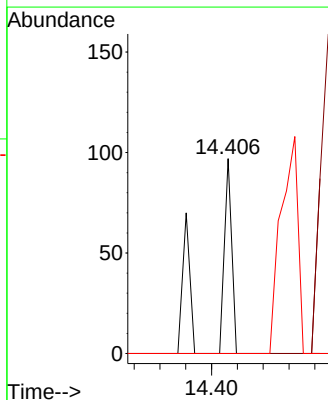
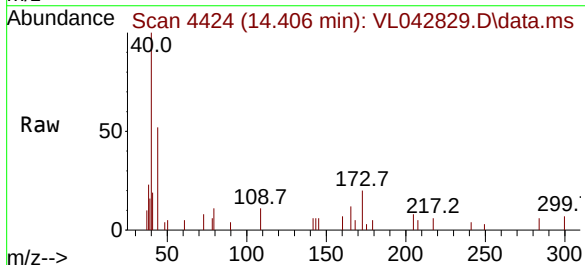
Instrument :
MSVOA_L
ClientSampleId :
QC072925 CAN 10283

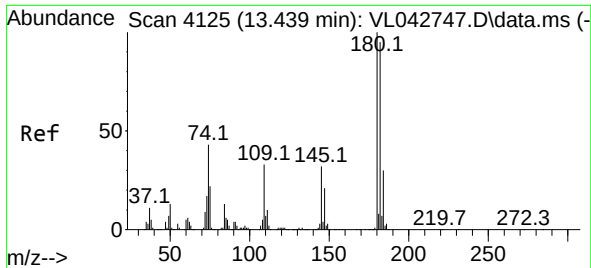
Tgt Ion:128 Resp: 59
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.406 min Scan# 4424
Delta R.T. -0.049 min
Lab File: VL042829.D
Acq: 07 Aug 2025 12:07

Tgt Ion:142 Resp: 32
Ion Ratio Lower Upper
142 100
141 0.0 65.8 98.8#
115 156.3 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.436 ppbv

RT: 13.455 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL042829.D

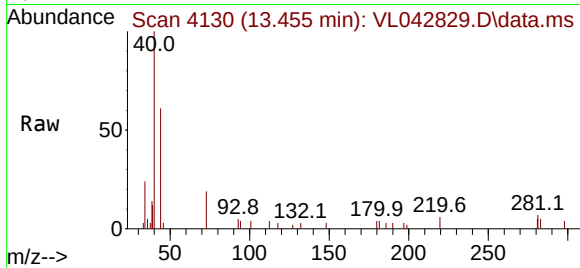
Acq: 07 Aug 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

QC072925 CAN 10283



Tgt Ion:180 Resp: 35

Ion Ratio Lower Upper

180 100

182 314.3 76.2 114.2#

184 182.9 24.8 37.2#

