

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042596.D
 Acq On : 29 May 2025 21:10
 Operator : SY/MD
 Sample : Q2124-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Quant Time: May 30 02:14:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	101808	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	299052	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	268281	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	201127	10.001	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

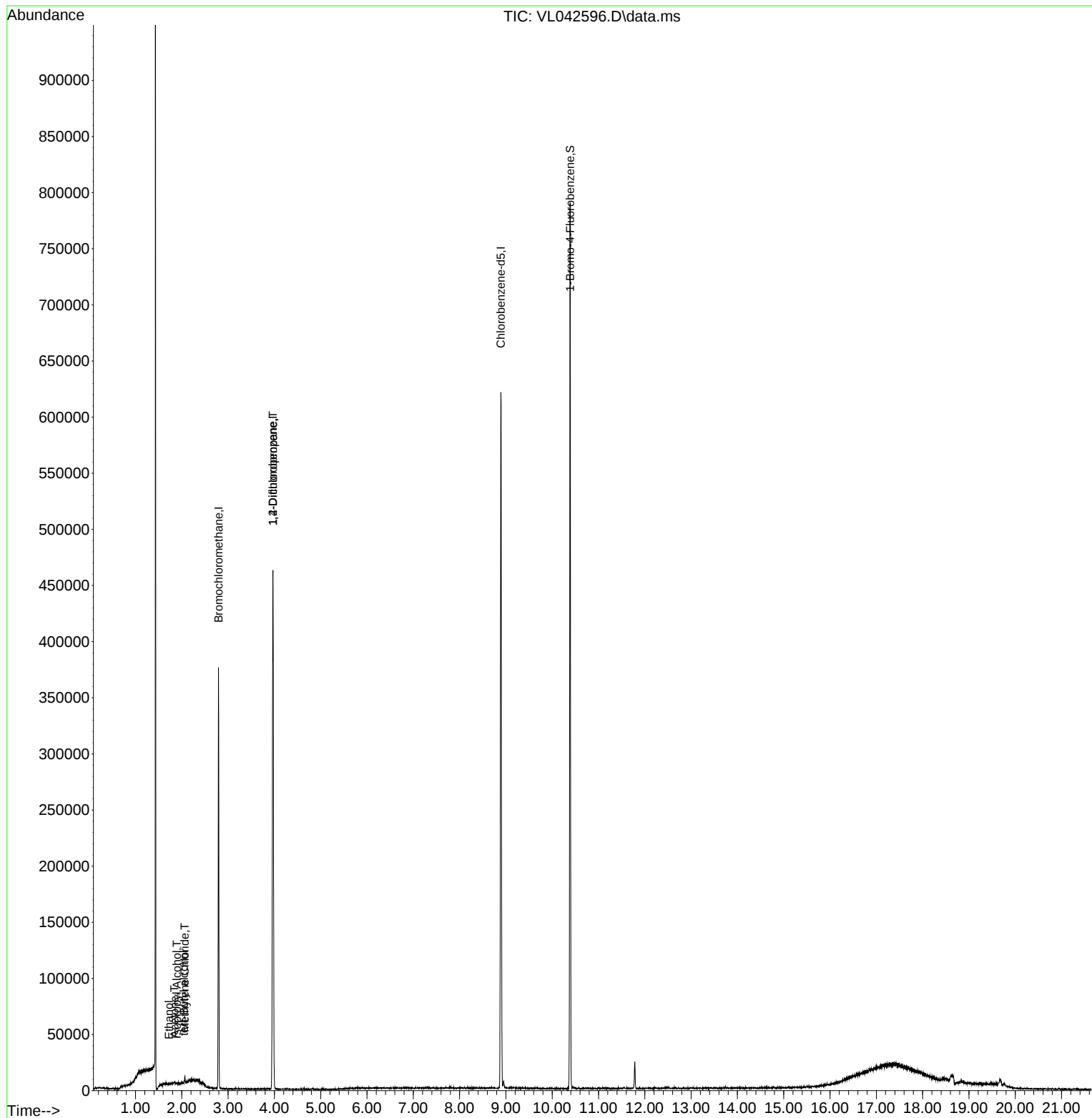
Target Compounds						Qvalue
13) Ethanol	1.725	45	256	0.310	ppbv #	39
15) Acetone	1.842	43	770	0.063	ppbv #	59
17) tert-Butyl alcohol	2.049	59	453	0.035	ppbv #	1
19) Isopropyl Alcohol	1.894	45	239	0.033	ppbv	97
20) Methylene Chloride	2.065	84	833	0.206	ppbv #	51
39) 1,2-Dichloropropane	3.968	63	71798	6.593	ppbv #	22

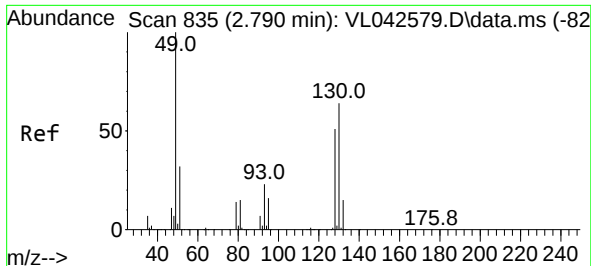
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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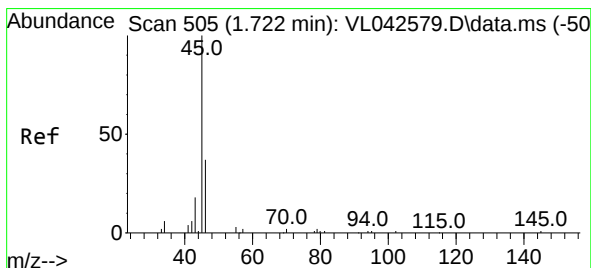
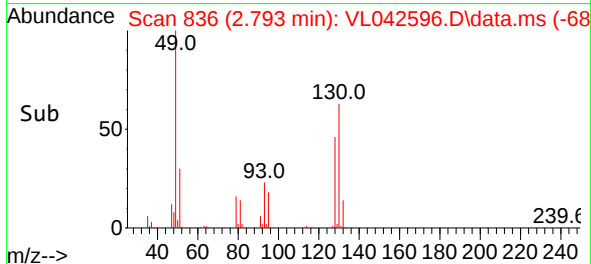
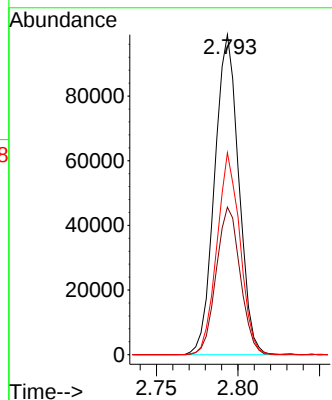
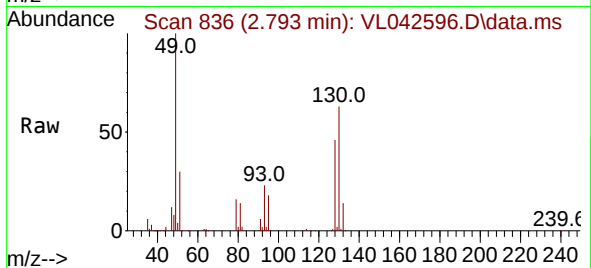




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042596.D
Acq: 29 May 2025 21:10

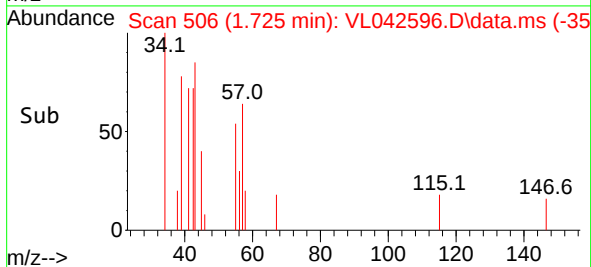
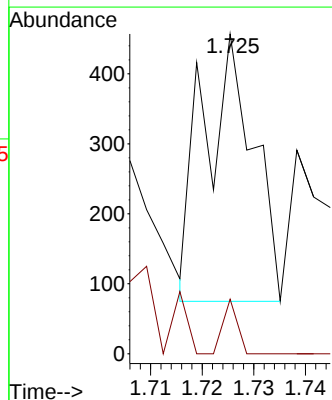
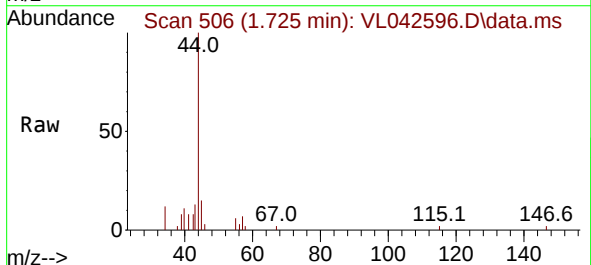
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

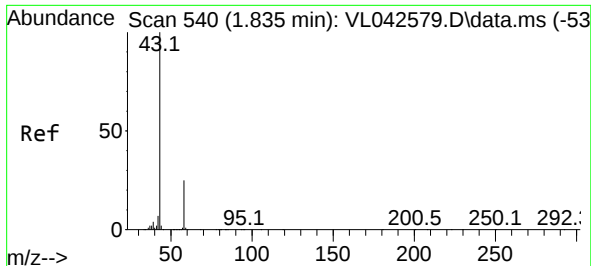
Tgt Ion: 49 Resp: 101808
Ion Ratio Lower Upper
49 100
128 46.0 24.2 72.6
130 60.3 30.4 91.2



#13
Ethanol
Concen: 0.310 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042596.D
Acq: 29 May 2025 21:10

Tgt Ion: 45 Resp: 256
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#

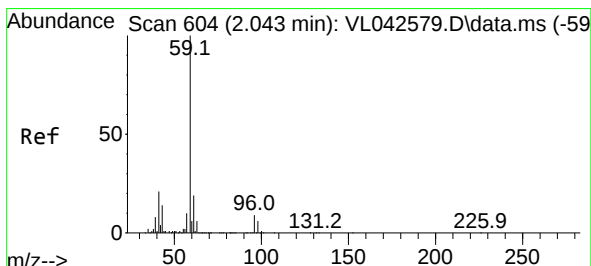
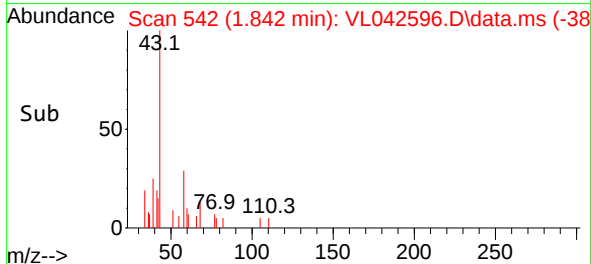
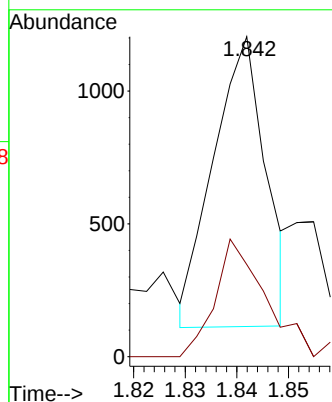
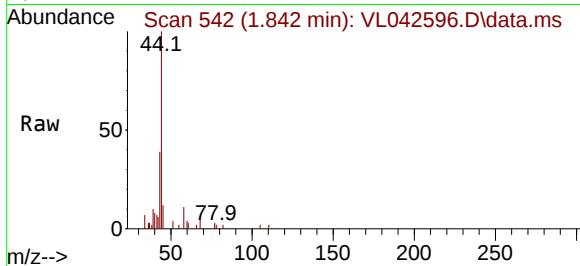




#15
Acetone
Concen: 0.063 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042596.D
Acq: 29 May 2025 21:10

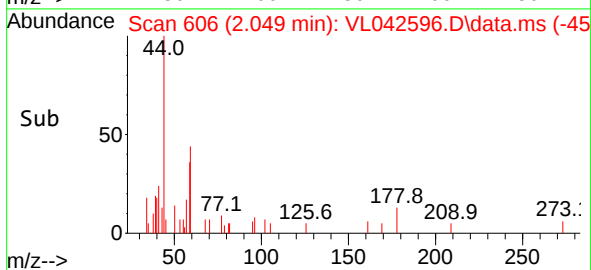
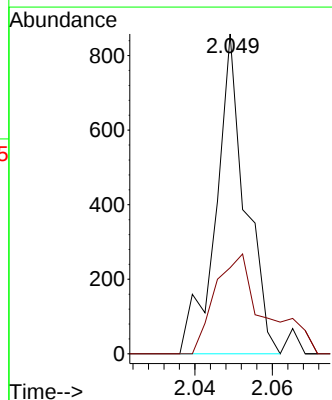
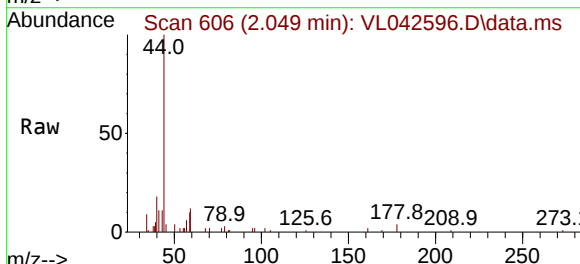
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

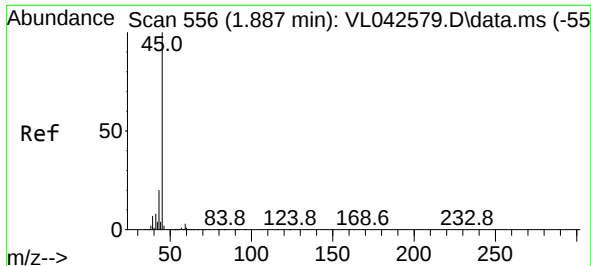
Tgt Ion: 43 Resp: 770
Ion Ratio Lower Upper
43 100
58 47.3 21.0 31.4#



#17
tert-Butyl alcohol
Concen: 0.035 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL042596.D
Acq: 29 May 2025 21:10

Tgt Ion: 59 Resp: 453
Ion Ratio Lower Upper
59 100
57 52.5 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.033 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.006 min

Lab File: VL042596.D

Acq: 29 May 2025 21:10

Instrument :

MSVOA_L

ClientSampleId :

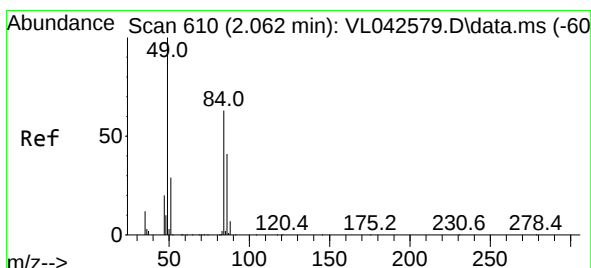
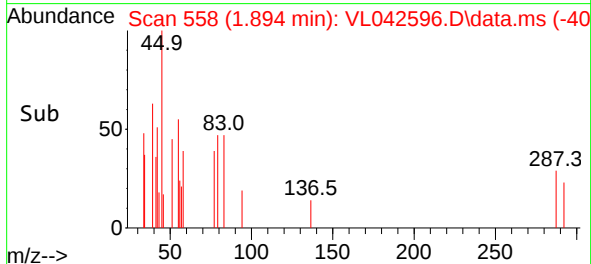
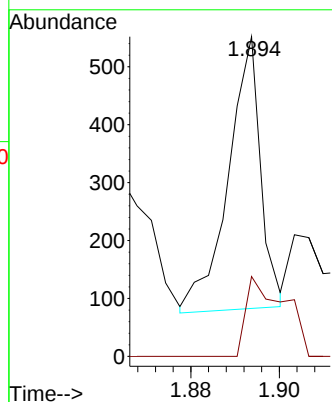
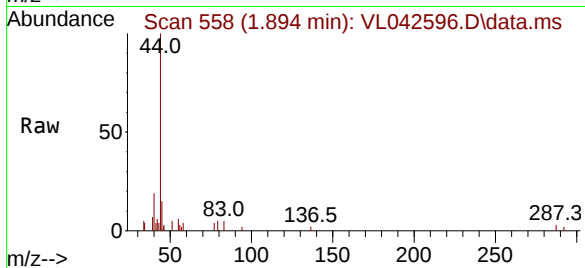
SV1DUP

Tgt Ion: 45 Resp: 239

Ion Ratio Lower Upper

45 100

58 34.7 29.4 44.2



#20

Methylene Chloride

Concen: 0.206 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.003 min

Lab File: VL042596.D

Acq: 29 May 2025 21:10

Tgt Ion: 84 Resp: 833

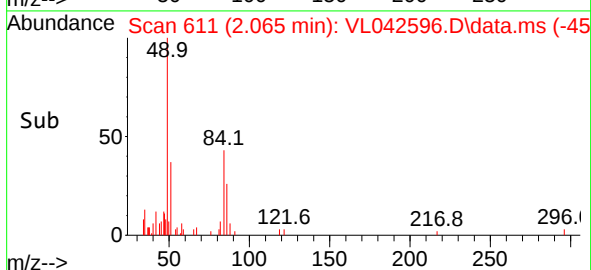
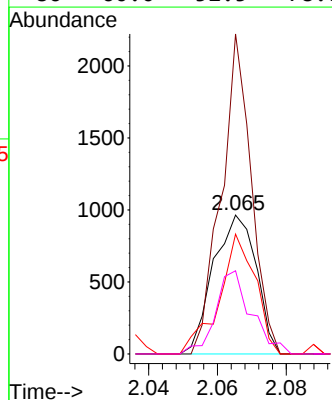
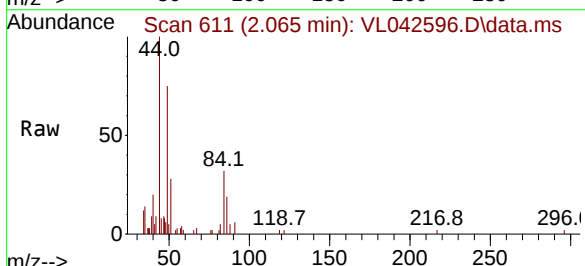
Ion Ratio Lower Upper

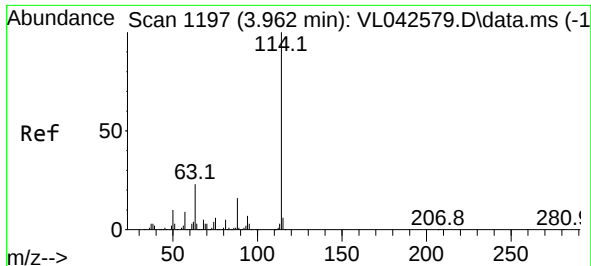
84 100

49 246.5 128.8 193.2#

51 86.3 38.6 57.8#

86 60.0 52.5 78.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.006 min

Lab File: VL042596.D

Acq: 29 May 2025 21:10

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

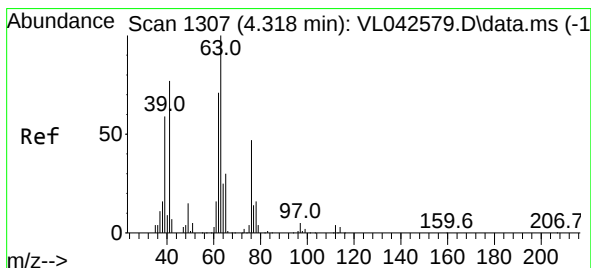
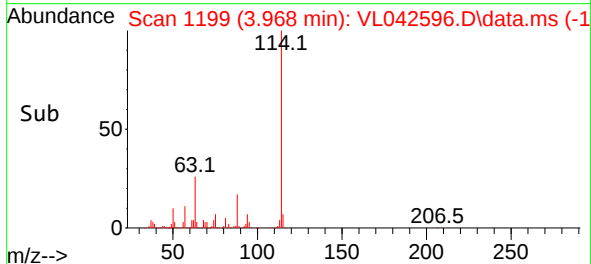
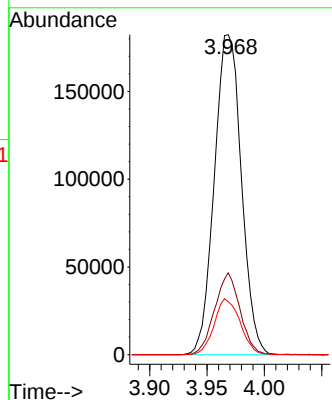
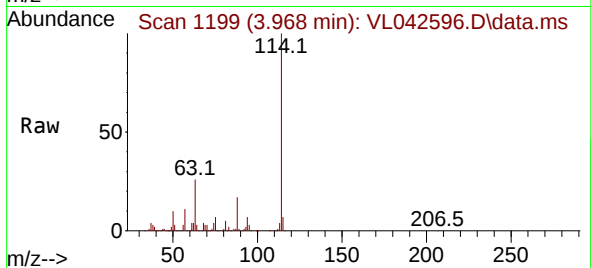
Tgt Ion:114 Resp: 299052

Ion Ratio Lower Upper

114 100

63 24.0 19.0 28.6

88 16.8 13.6 20.4



#39

1,2-Dichloropropane

Concen: 6.593 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.350 min

Lab File: VL042596.D

Acq: 29 May 2025 21:10

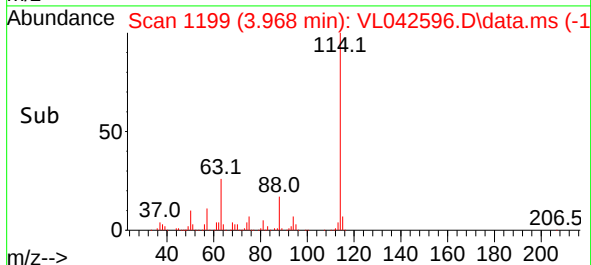
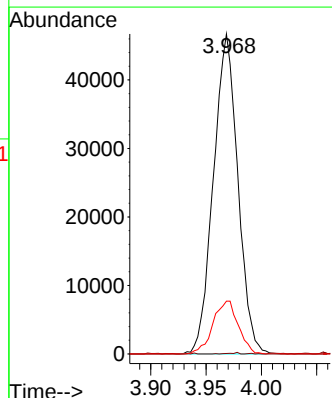
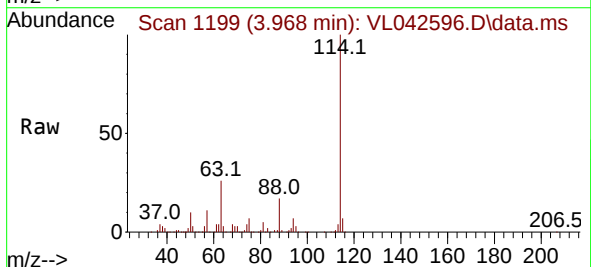
Tgt Ion: 63 Resp: 71798

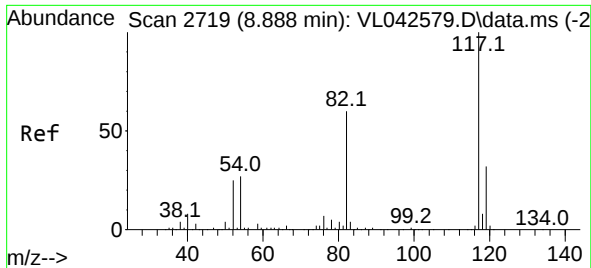
Ion Ratio Lower Upper

63 100

41 0.1 61.8 92.6#

62 16.5 56.6 85.0#



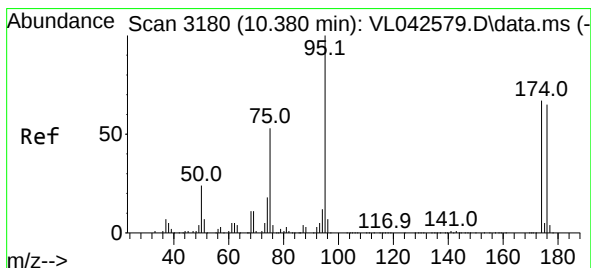
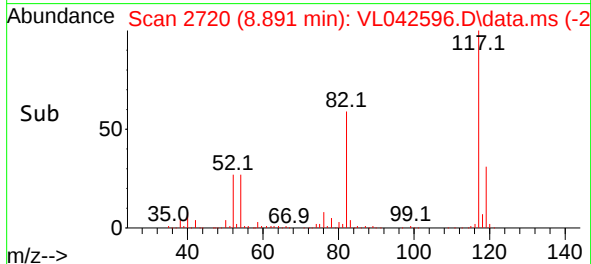
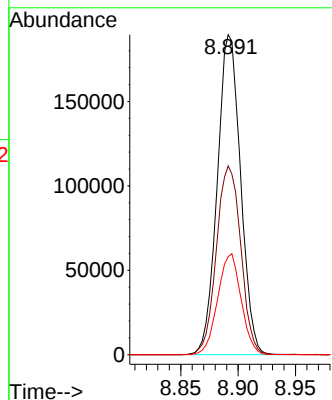
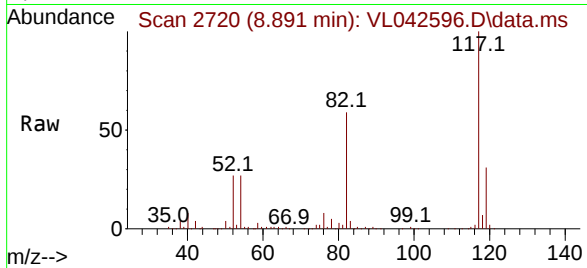


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.891 min Scan# 211
 Delta R.T. 0.003 min
 Lab File: VL042596.D
 Acq: 29 May 2025 21:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Tgt Ion: 117 Resp: 268281

Ion	Ratio	Lower	Upper
117	100		
82	61.7	51.2	76.8
119	31.7	26.3	39.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.001 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.006 min
 Lab File: VL042596.D
 Acq: 29 May 2025 21:10

Tgt Ion: 95 Resp: 201127

Ion	Ratio	Lower	Upper
95	100		
174	64.7	53.1	79.7
175	5.0	4.2	6.2

