

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042911.D
 Acq On : 08 Sep 2025 19:31
 Operator : SY/MD
 Sample : Q3052-02 1200X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

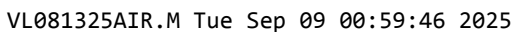
Quant Time: Sep 09 00:59:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

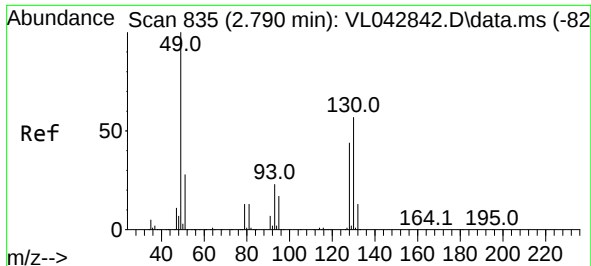
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	138735	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	331230	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283418	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	214475	10.090	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	719	0.032	ppbv	100
9) Propene	1.486	41	1097	0.113	ppbv #	78
13) Ethanol	1.722	45	1824	2.055	ppbv	93
15) Acetone	1.835	43	17723	0.966	ppbv	100
16) 1,3-Butadiene	1.599	39	251	0.030	ppbv #	68
19) Isopropyl Alcohol	1.887	45	784	0.072	ppbv #	1
20) Methylene Chloride	2.062	84	1597	0.208	ppbv #	67
23) Vinyl Acetate	2.470	43	990	0.039	ppbv #	1
26) Hexane	2.826	57	809	0.039	ppbv #	1
29) Chloroform	2.845	83	8300	0.284	ppbv	96
30) Cyclohexane	3.949	84	1547	0.086	ppbv #	1
39) 1,2-Dichloropropane	3.952	63	90229	7.789	ppbv #	24
52) Tetrachloroethene	8.228	164	1976	0.172	ppbv	95

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

Quant Time: Sep 09 00:59:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
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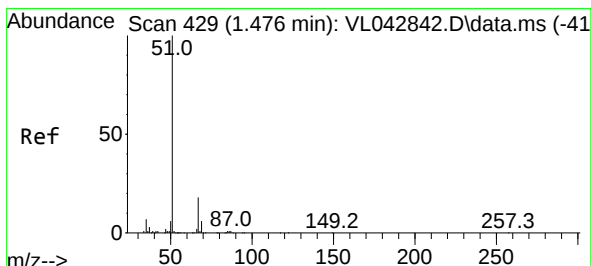
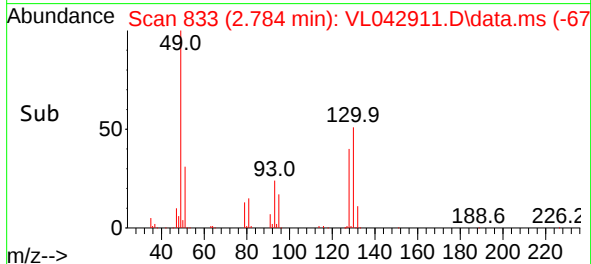
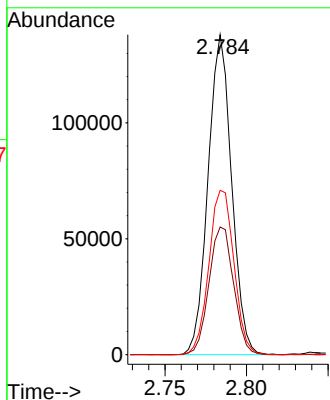
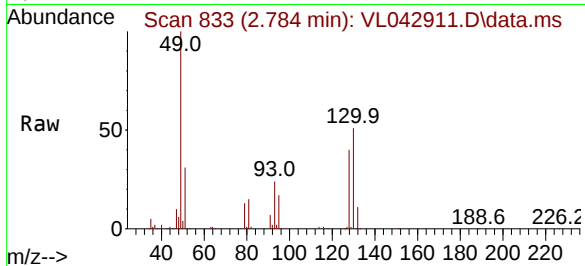




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

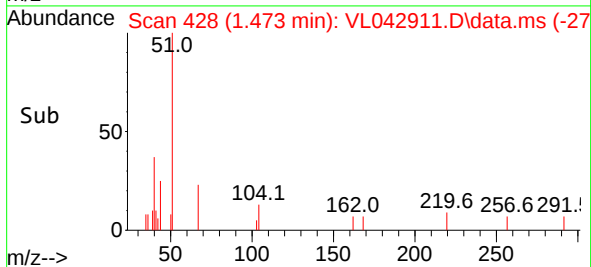
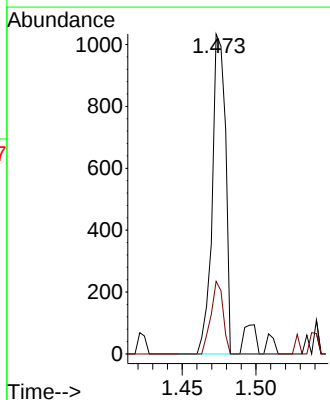
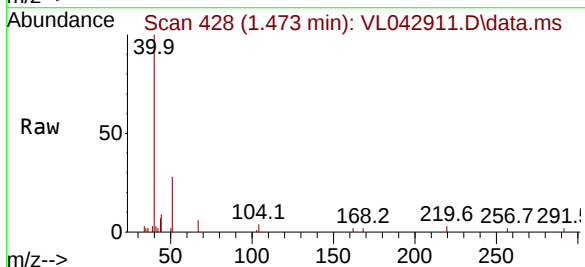
Instrument :
MSVOA_L
ClientSampleId :
SV2

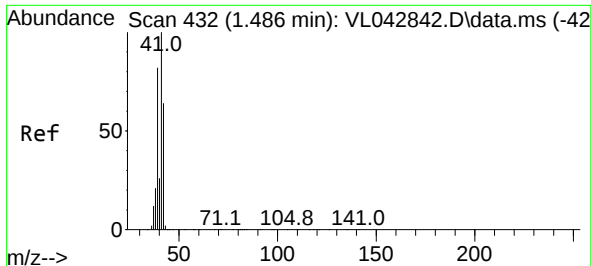
Tgt Ion: 49 Resp: 138735
Ion Ratio Lower Upper
49 100
128 41.8 23.7 71.1
130 54.8 30.6 91.6



#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

Tgt Ion: 51 Resp: 719
Ion Ratio Lower Upper
51 100
67 18.6 14.9 22.3





#9

Propene

Concen: 0.113 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042911.D

Acq: 08 Sep 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

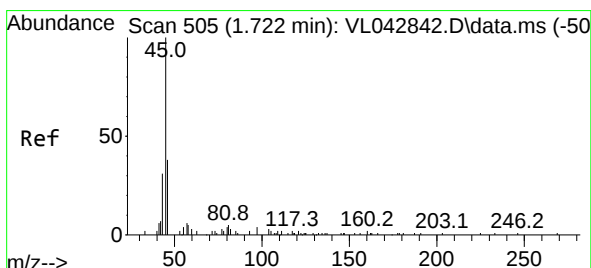
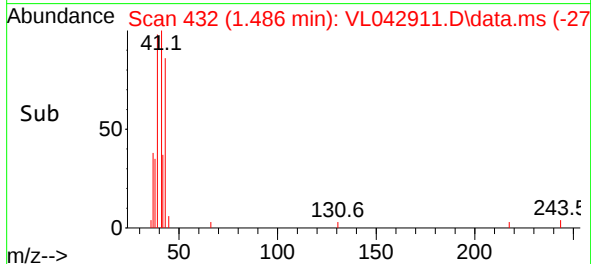
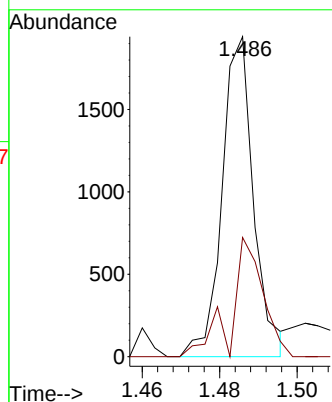
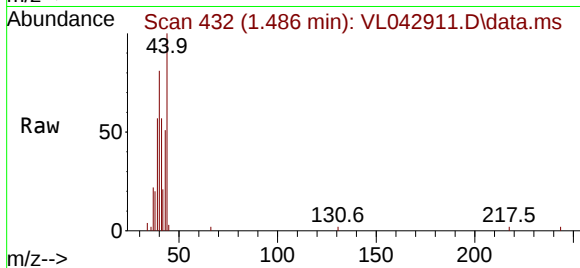
SV2

Tgt Ion: 41 Resp: 1097

Ion Ratio Lower Upper

41 100

42 48.4 53.0 79.4#



#13

Ethanol

Concen: 2.055 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.006 min

Lab File: VL042911.D

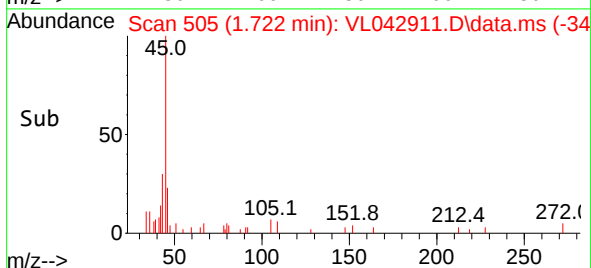
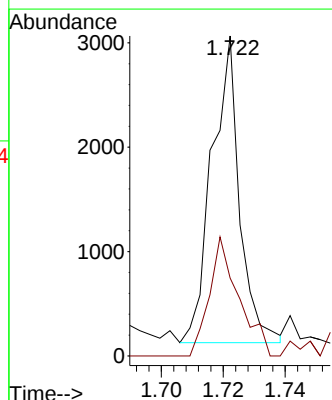
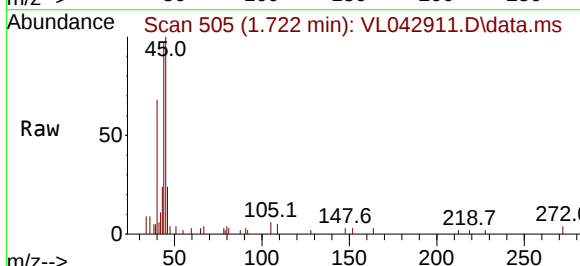
Acq: 08 Sep 2025 19:31

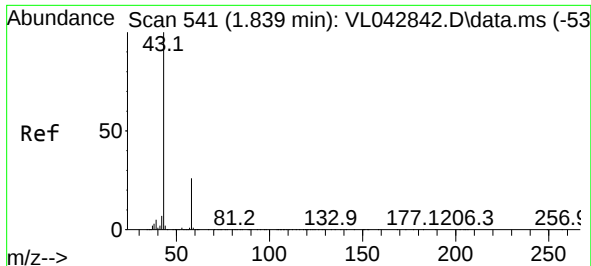
Tgt Ion: 45 Resp: 1824

Ion Ratio Lower Upper

45 100

46 48.1 17.5 69.9

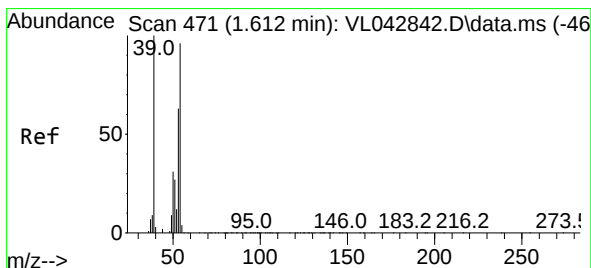
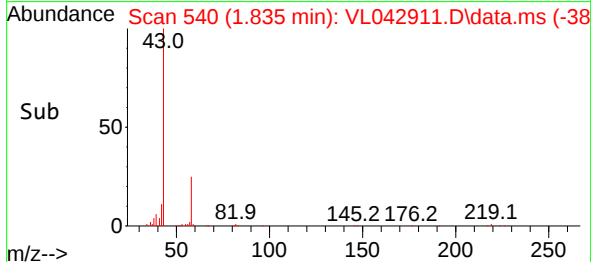
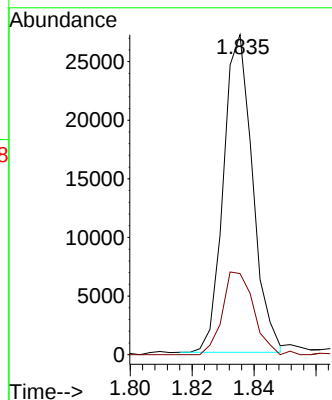
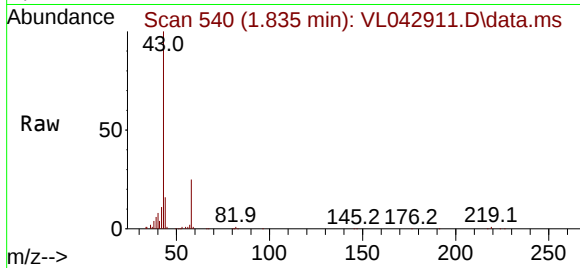




#15
Acetone
Concen: 0.966 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

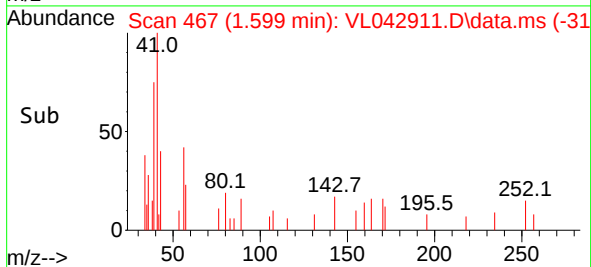
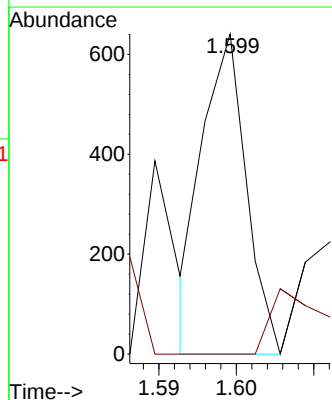
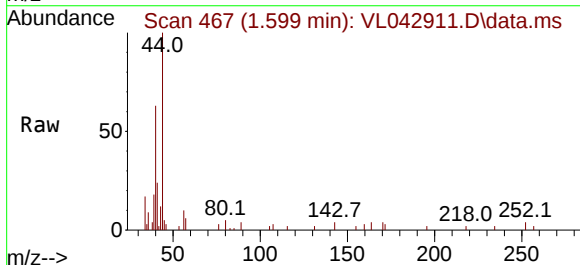
Instrument :
MSVOA_L
ClientSampleId :
SV2

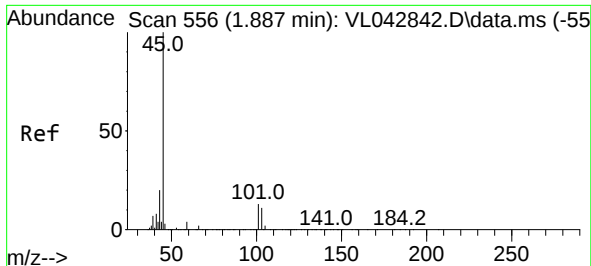
Tgt Ion: 43 Resp: 17723
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 0.030 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.003 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

Tgt Ion: 39 Resp: 251
Ion Ratio Lower Upper
39 100
54 51.0 63.6 95.4#

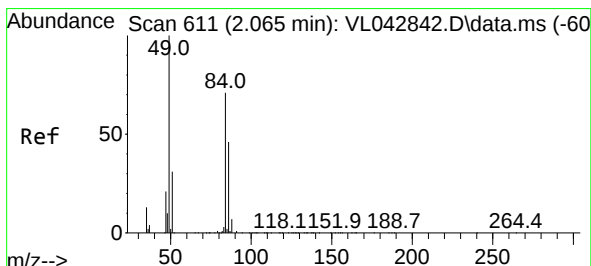
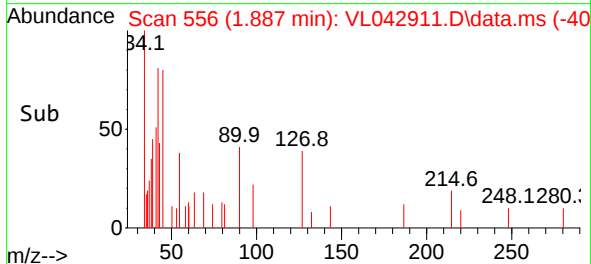
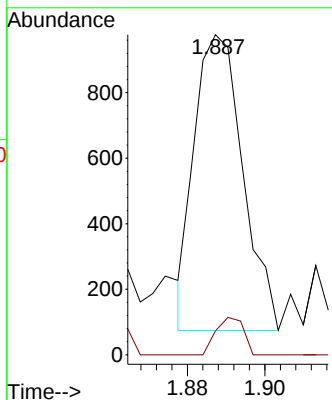
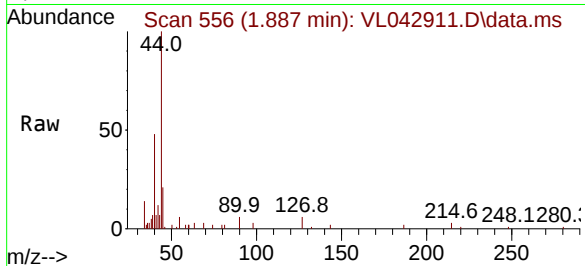




#19
Isopropyl Alcohol
Concen: 0.072 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

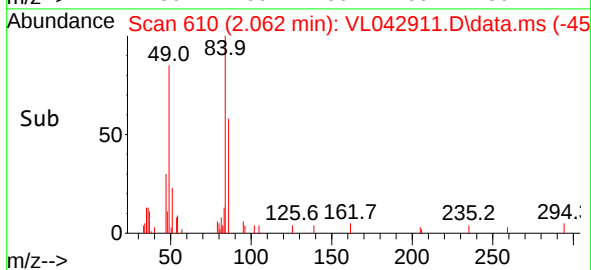
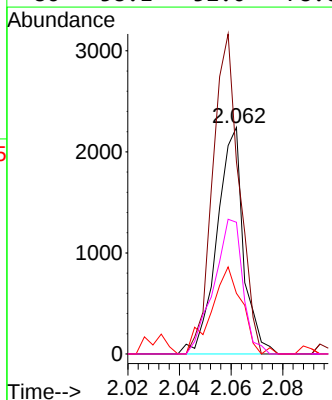
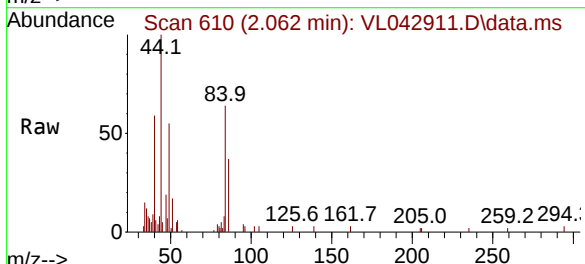
Instrument :
MSVOA_L
ClientSampleId :
SV2

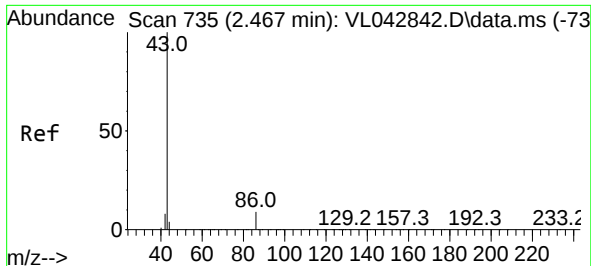
Tgt Ion: 45 Resp: 784
Ion Ratio Lower Upper
45 100
58 638.6 32.7 49.1#



#20
Methylene Chloride
Concen: 0.208 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

Tgt Ion: 84 Resp: 1597
Ion Ratio Lower Upper
84 100
49 84.9 112.3 168.5#
51 26.8 36.0 54.0#
86 58.1 52.0 78.0

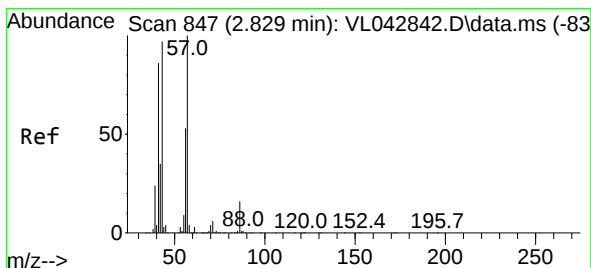
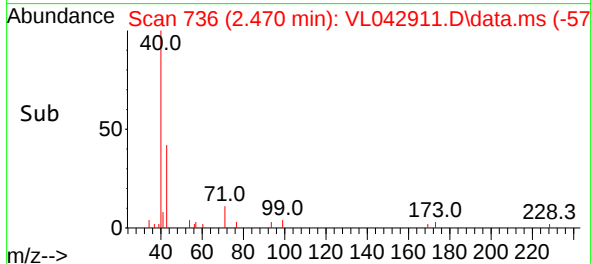
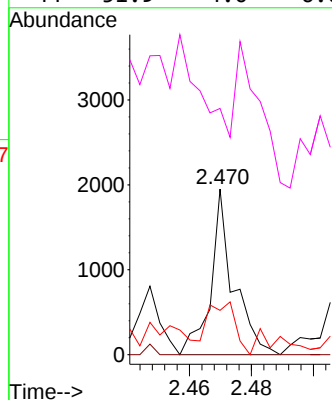
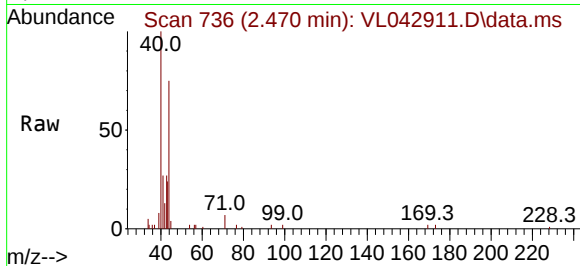




#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL042911.D
 Acq: 08 Sep 2025 19:31

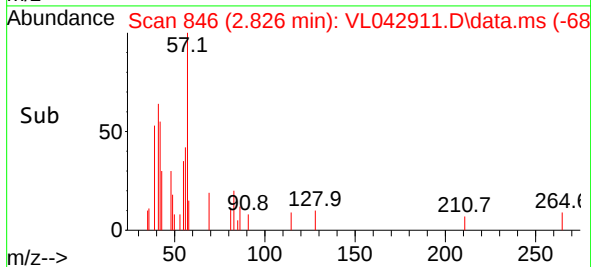
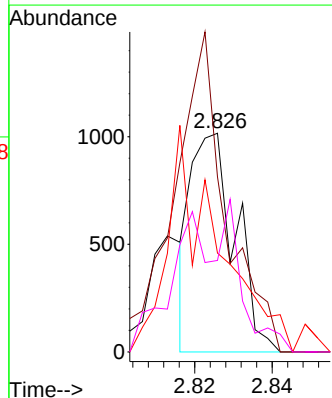
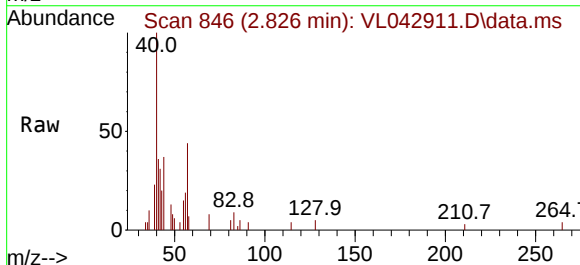
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

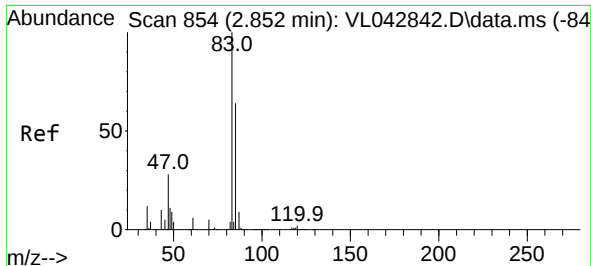
Tgt Ion:	43	Resp:	990
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	68.6	7.0	10.6#
44	51.9	4.0	6.0#



#26
 Hexane
 Concen: 0.039 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.010 min
 Lab File: VL042911.D
 Acq: 08 Sep 2025 19:31

Tgt Ion:	57	Resp:	809
Ion	Ratio	Lower	Upper
57	100		
41	171.4	68.6	103.0#
43	0.0	168.5	252.7#
56	91.2	41.5	62.3#





#29

Chloroform

Concen: 0.284 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042911.D

Acq: 08 Sep 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

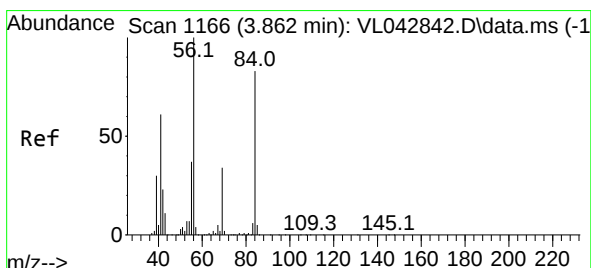
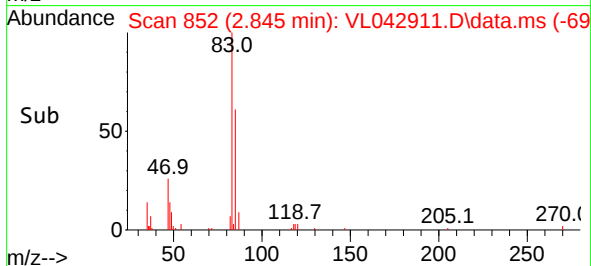
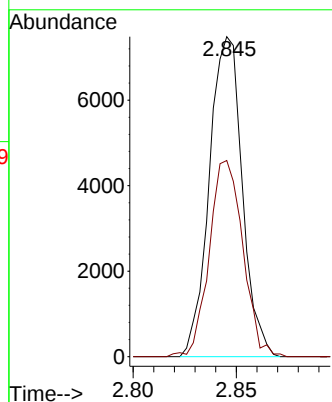
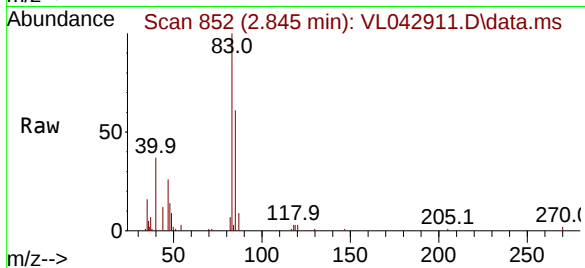
SV2

Tgt Ion: 83 Resp: 8300

Ion Ratio Lower Upper

83 100

85 60.5 51.1 76.7



#30

Cyclohexane

Concen: 0.086 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.107 min

Lab File: VL042911.D

Acq: 08 Sep 2025 19:31

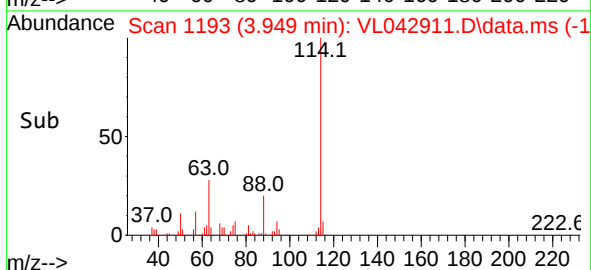
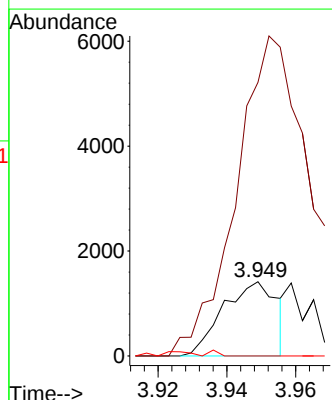
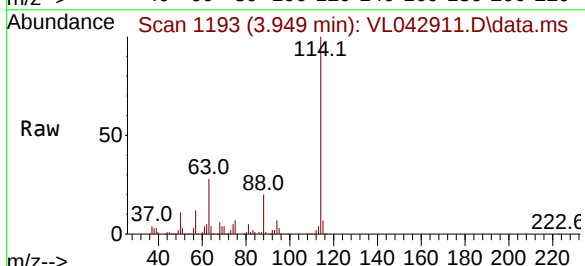
Tgt Ion: 84 Resp: 1547

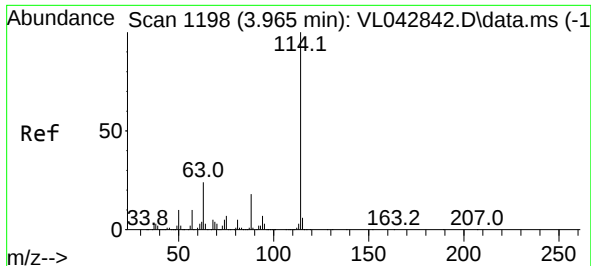
Ion Ratio Lower Upper

84 100

56 601.9 98.8 148.2#

41 4.8 61.3 91.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042911.D

Acq: 08 Sep 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

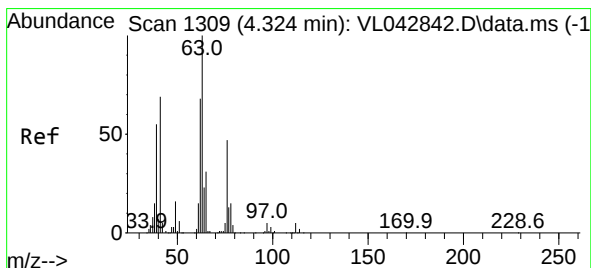
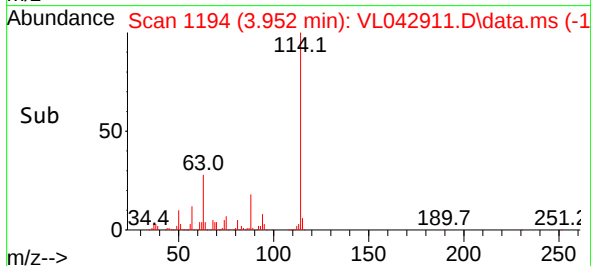
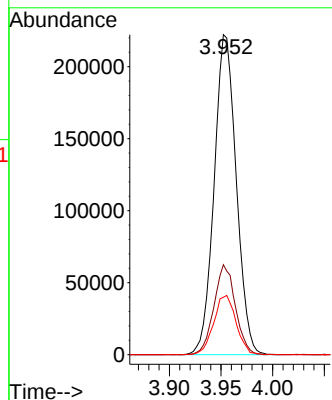
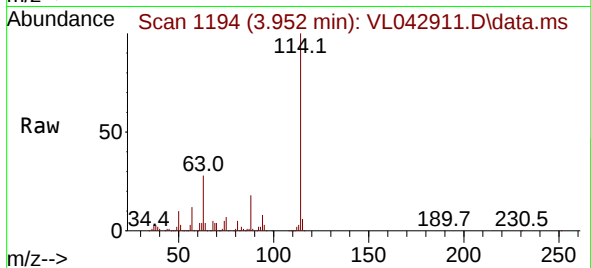
Tgt Ion:114 Resp: 331230

Ion Ratio Lower Upper

114 100

63 27.3 19.7 29.5

88 18.8 14.4 21.6



#39

1,2-Dichloropropane

Concen: 7.789 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.346 min

Lab File: VL042911.D

Acq: 08 Sep 2025 19:31

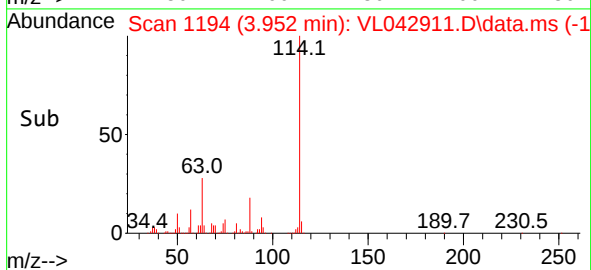
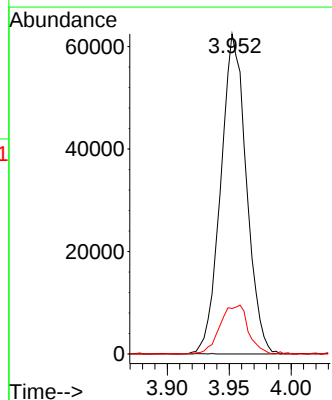
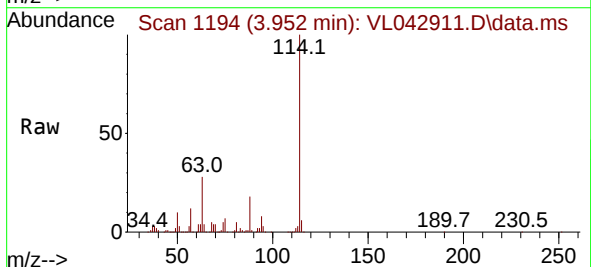
Tgt Ion: 63 Resp: 90229

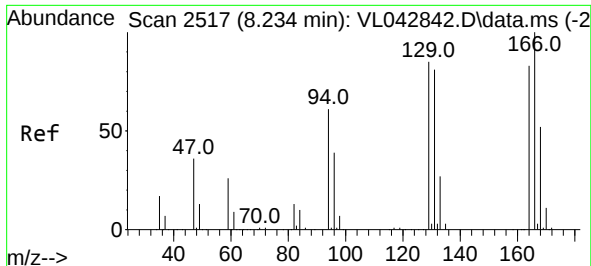
Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 14.2 54.4 81.6#



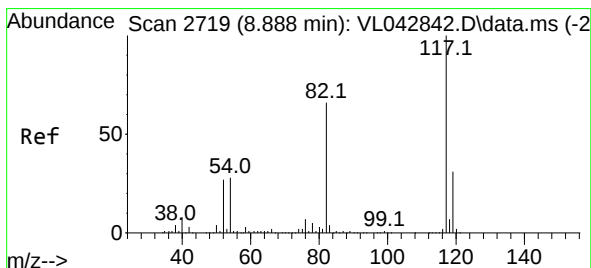
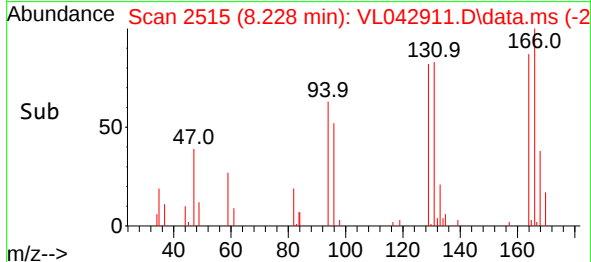
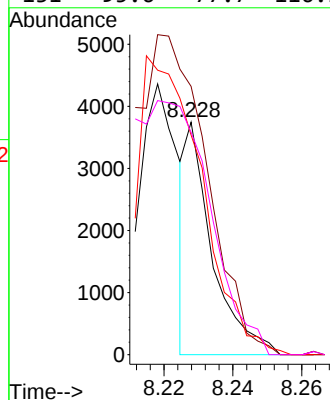
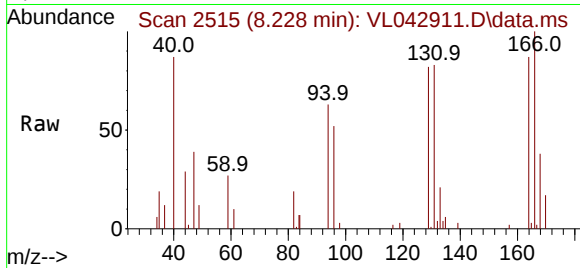


#52
Tetrachloroethene
Concen: 0.172 ppbv
RT: 8.228 min Scan# 216
Delta R.T. 0.016 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:164 Resp: 1976

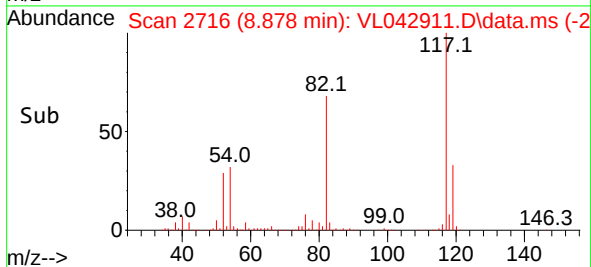
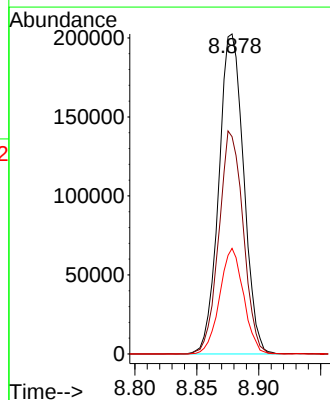
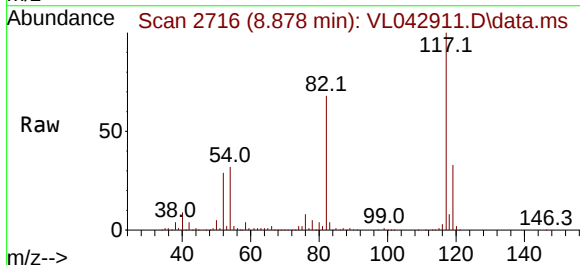
Ion	Ratio	Lower	Upper
164	100		
166	115.4	96.5	144.7
129	92.7	81.8	122.6
131	95.6	77.7	116.5

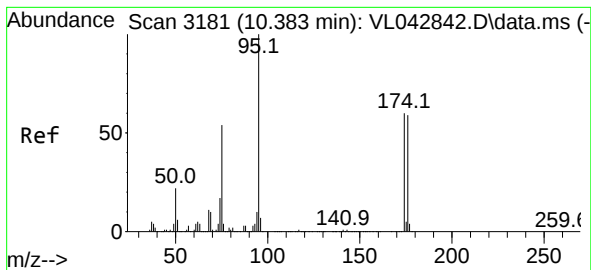


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042911.D
Acq: 08 Sep 2025 19:31

Tgt Ion:117 Resp: 283418

Ion	Ratio	Lower	Upper
117	100		
82	68.3	54.6	81.8
119	31.8	25.9	38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.090 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL042911.D
 Acq: 08 Sep 2025 19:31

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 95 Resp: 214475
 Ion Ratio Lower Upper
 95 100
 174 57.4 48.4 72.6
 175 4.1 3.8 5.8

