

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042110.D
 Acq On : 05 Mar 2025 18:34
 Operator : SY/MD
 Sample : Q1483-03 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 06 01:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.813	49	157863	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.998	114	348468	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.921	117	288912	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.409	95	205982	9.267	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

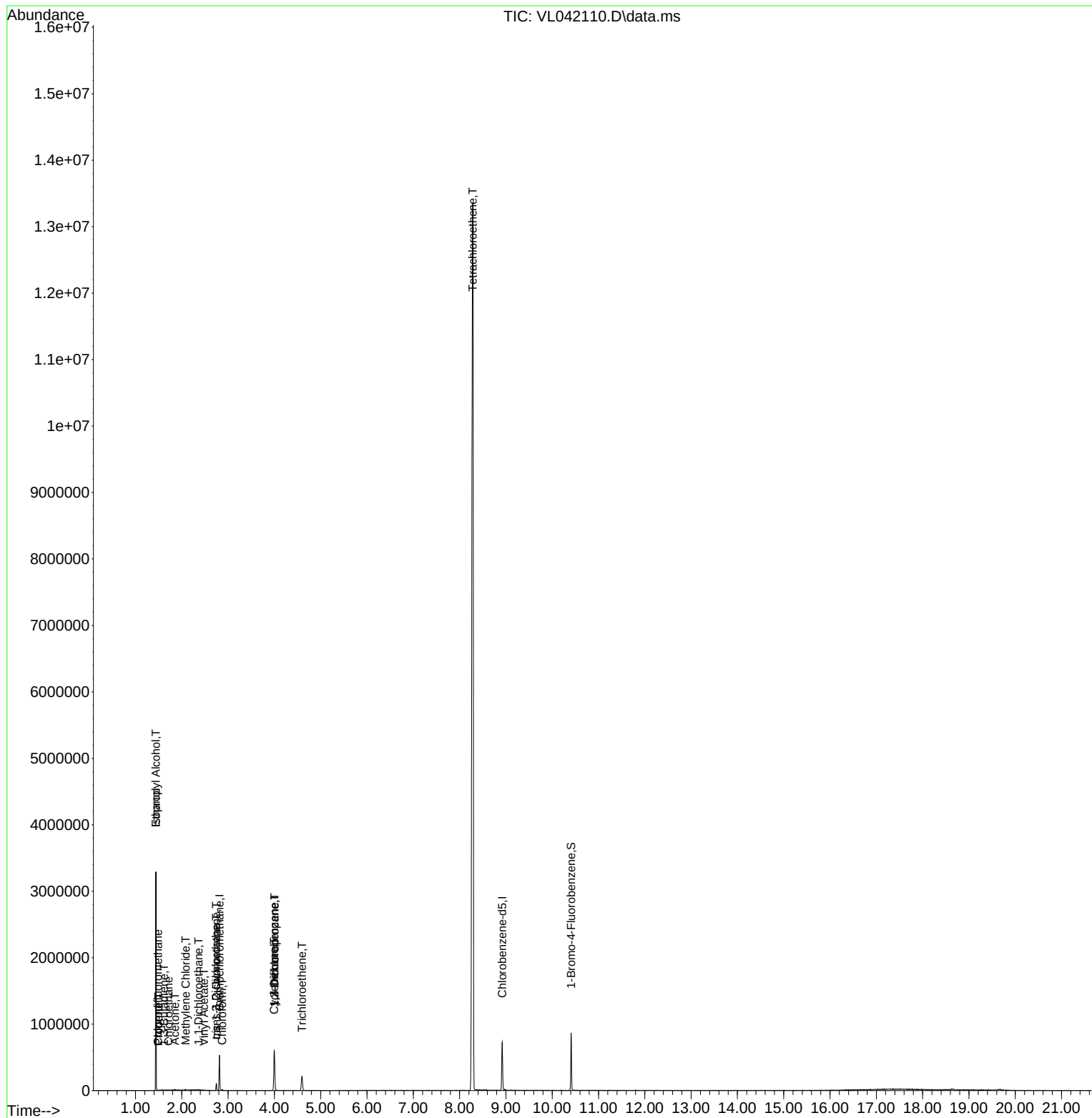
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.486	51	850	0.037	ppbv #	61
7) Chloroethane	1.712	64	177	0.076	ppbv #	39
9) Propene	1.496	41	604	0.065	ppbv	87
13) Ethanol	1.441	45	116782	196.819	ppbv	90
15) Acetone	1.852	43	5689	0.408	ppbv	94
16) 1,3-Butadiene	1.615	39	326	0.050	ppbv #	12
19) Isopropyl Alcohol	1.441	45	116782	14.583	ppbv #	32
20) Methylene Chloride	2.081	84	1739	0.330	ppbv #	74
22) trans-1,2-Dichloroethene	2.745	96	21296	3.081	ppbv	95
23) Vinyl Acetate	2.480	43	300	0.031	ppbv #	1
24) 1,1-Dichloroethane	2.363	63	425	0.033	ppbv #	1
29) Chloroform	2.871	83	4787	0.158	ppbv #	82
30) Cyclohexane	3.991	84	1635	0.089	ppbv #	1
31) cis-1,2-Dichloroethene	2.745	61	34215	1.602	ppbv	98
38) Trichloroethene	4.596	130	60818	4.083	ppbv	92
39) 1,2-Dichloropropane	4.001	63	91016	6.573	ppbv #	23
52) Tetrachloroethene	8.283	164	3422840	274.084	ppbv	94

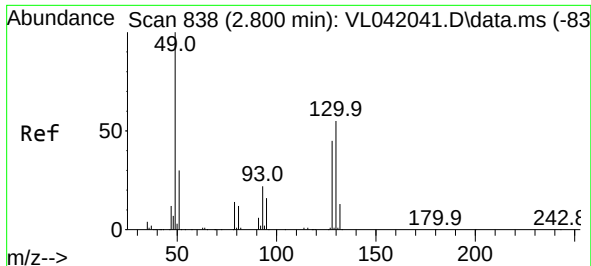
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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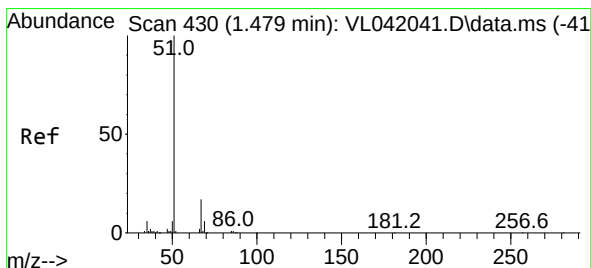
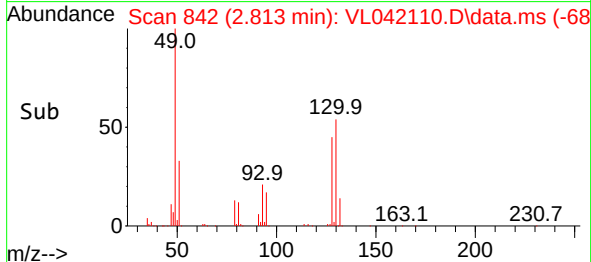
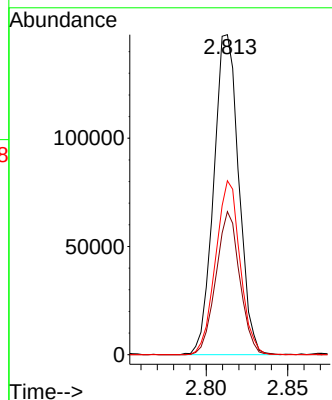
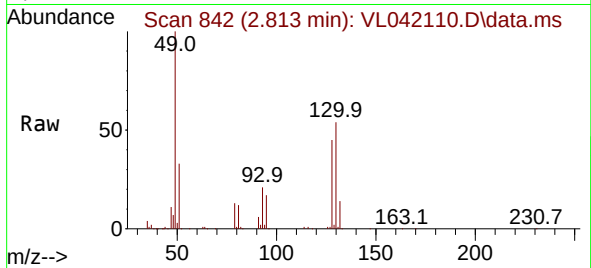




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.813 min Scan# 84
Delta R.T. 0.013 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

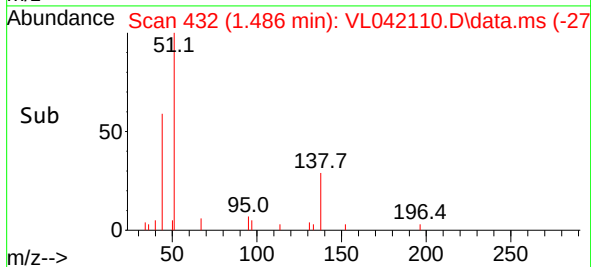
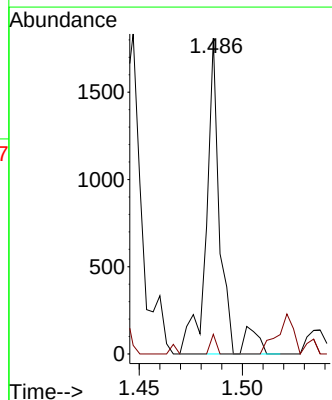
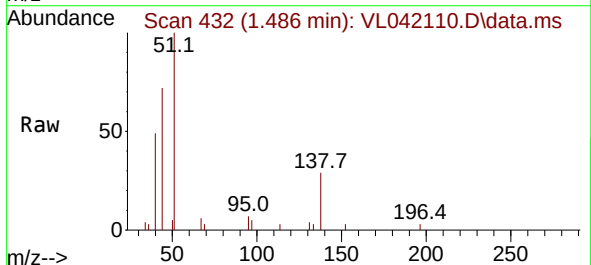
Instrument :
MSVOA_L
ClientSampleId :
SV1

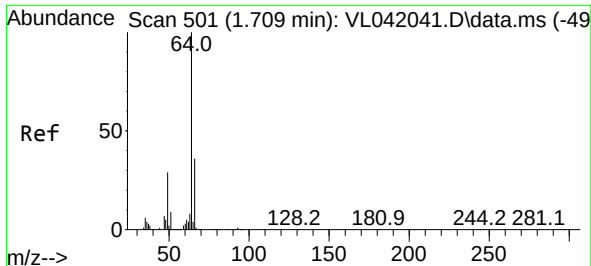
Tgt Ion: 49 Resp: 157863
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.8
130 53.1 27.8 83.4



#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion: 51 Resp: 850
Ion Ratio Lower Upper
51 100
67 0.0 13.7 20.5#

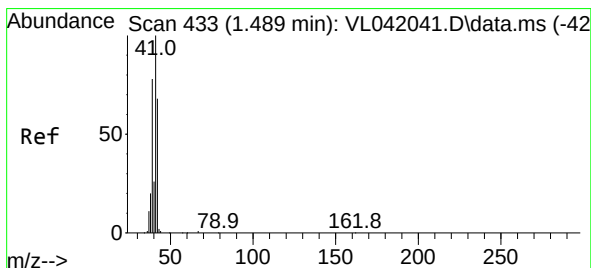
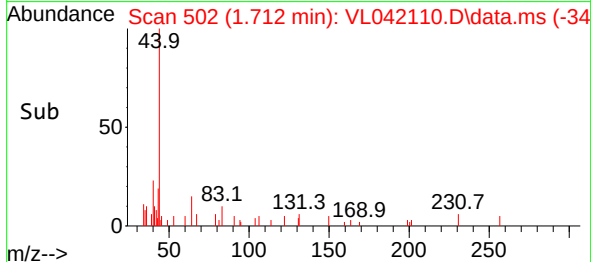
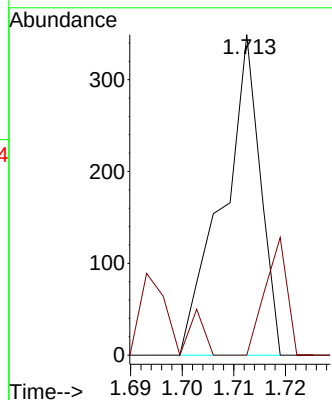
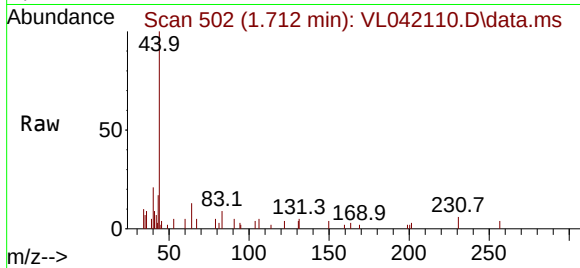




#7
Chloroethane
Concen: 0.076 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

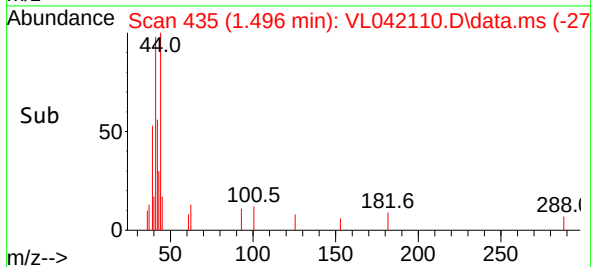
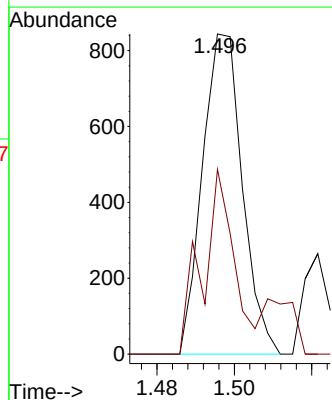
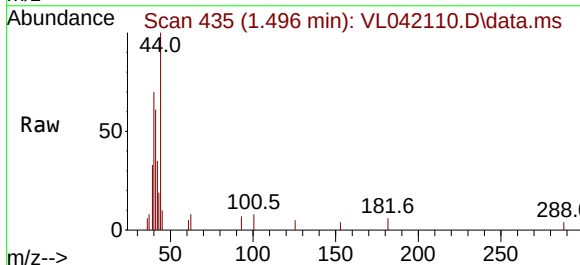
Instrument :
MSVOA_L
ClientSampleId :
SV1

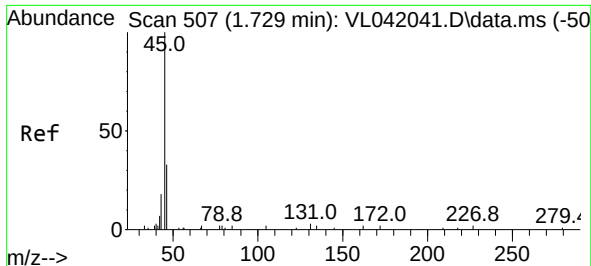
Tgt Ion: 64 Resp: 177
Ion Ratio Lower Upper
64 100
66 0.0 28.4 42.6#



#9
Propene
Concen: 0.065 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.006 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion: 41 Resp: 604
Ion Ratio Lower Upper
41 100
42 58.8 55.8 83.6





#13

Ethanol

Concen: 196.819 ppbv

RT: 1.441 min Scan# 418

Delta R.T. -0.288 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Instrument :

MSVOA_L

ClientSampleId :

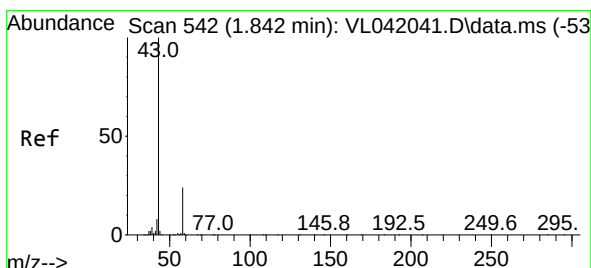
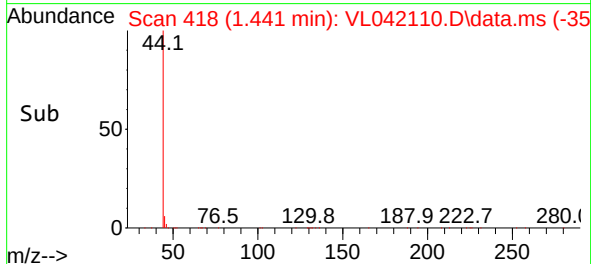
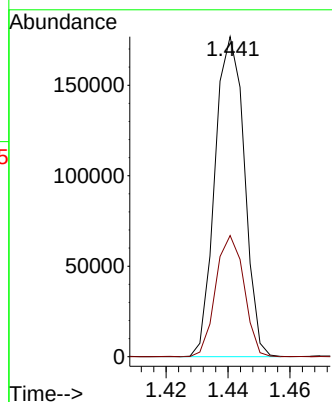
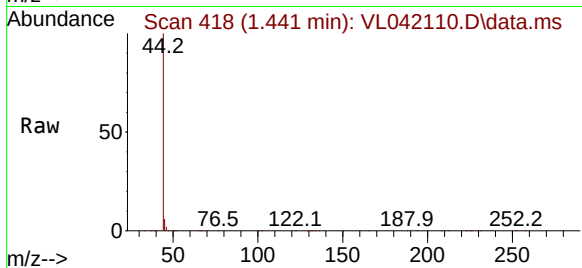
SV1

Tgt Ion: 45 Resp: 116782

Ion Ratio Lower Upper

45 100

46 36.4 17.1 68.3



#15

Acetone

Concen: 0.408 ppbv

RT: 1.852 min Scan# 545

Delta R.T. 0.010 min

Lab File: VL042110.D

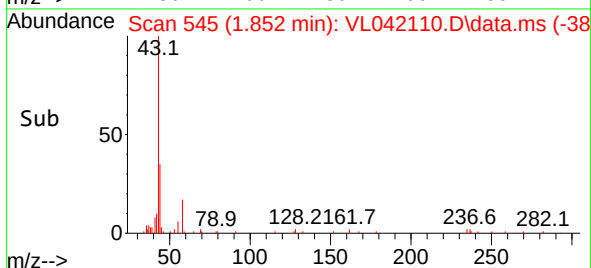
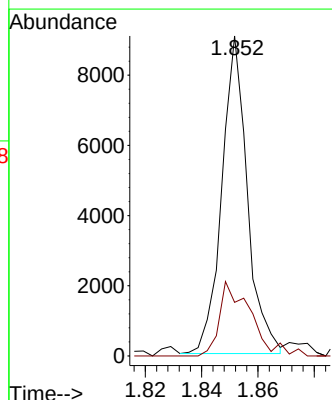
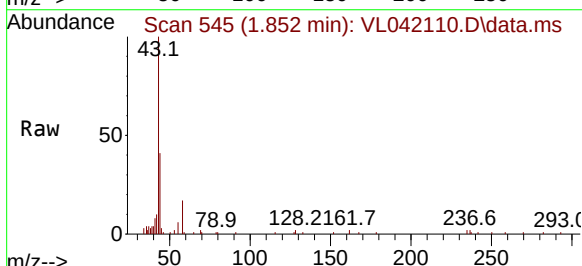
Acq: 05 Mar 2025 18:34

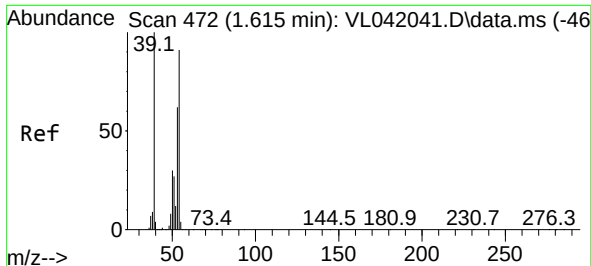
Tgt Ion: 43 Resp: 5689

Ion Ratio Lower Upper

43 100

58 28.9 20.7 31.1

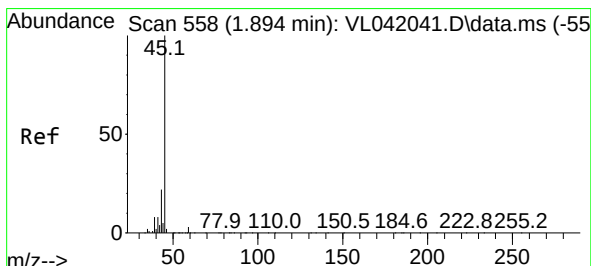
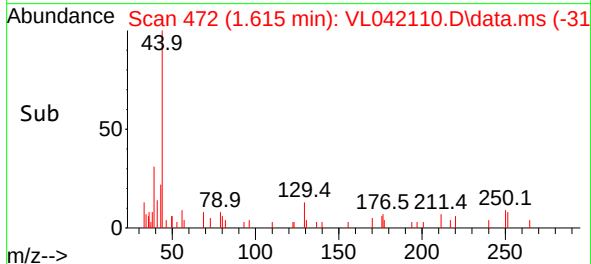
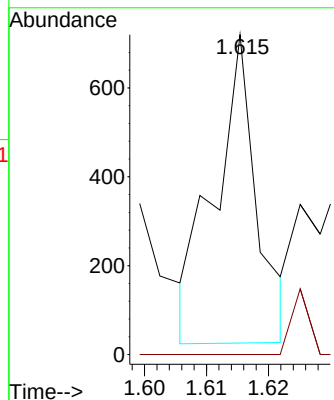
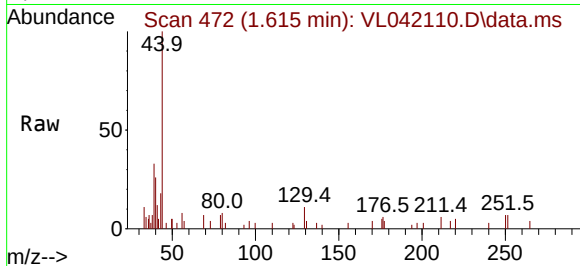




#16
1,3-Butadiene
Concen: 0.050 ppbv
RT: 1.615 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

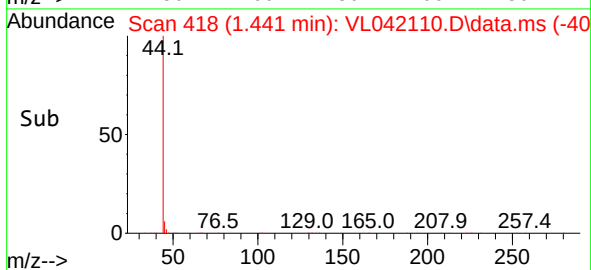
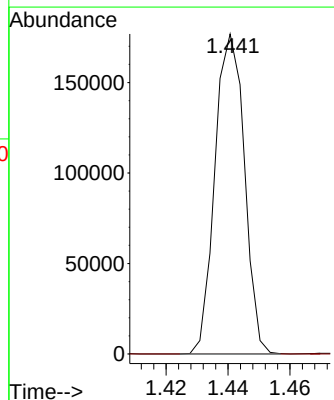
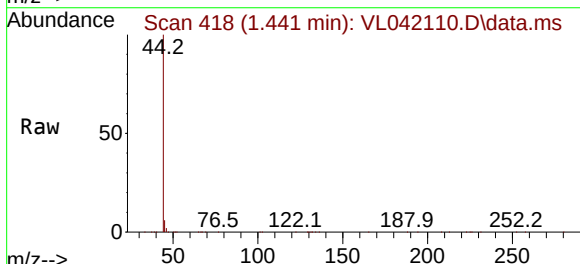
Instrument :
MSVOA_L
ClientSampleId :
SV1

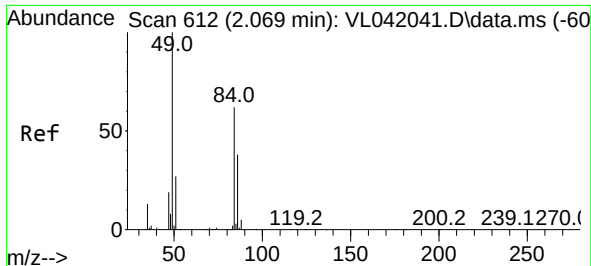
Tgt Ion: 39 Resp: 326
Ion Ratio Lower Upper
39 100
54 0.0 59.6 89.4#



#19
Isopropyl Alcohol
Concen: 14.583 ppbv
RT: 1.441 min Scan# 418
Delta R.T. -0.453 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion: 45 Resp: 116782
Ion Ratio Lower Upper
45 100
58 0.2 35.3 52.9#

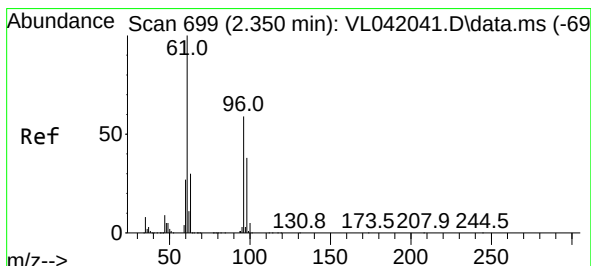
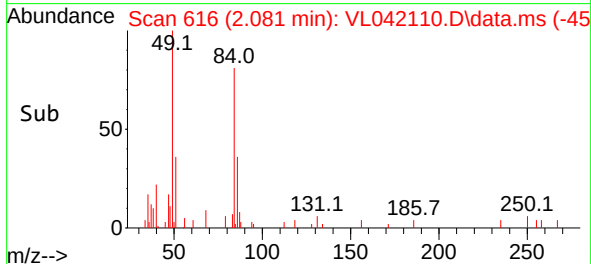
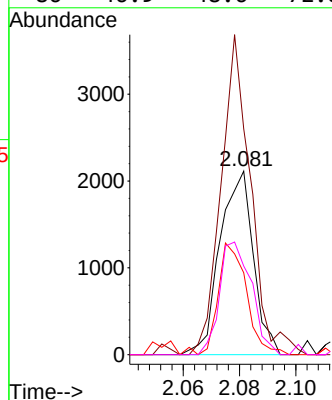
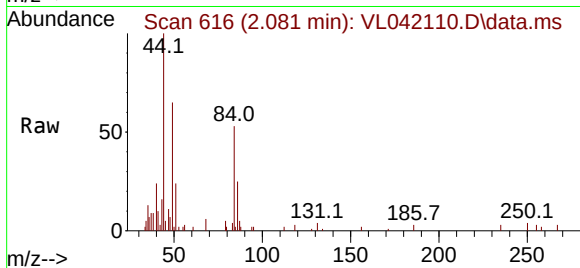




#20
Methylene Chloride
Concen: 0.330 ppbv
RT: 2.081 min Scan# 612
Delta R.T. 0.013 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

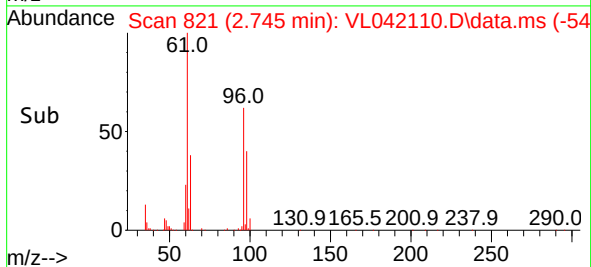
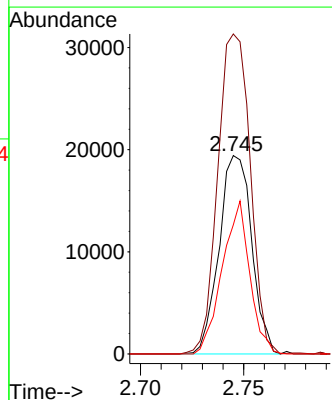
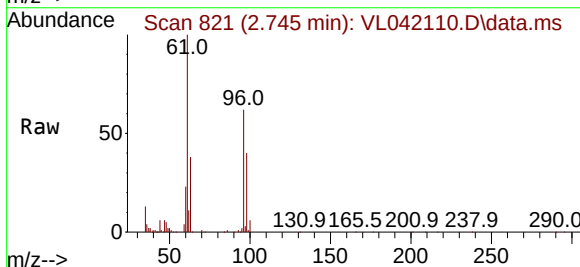
Instrument :
MSVOA_L
ClientSampleId :
SV1

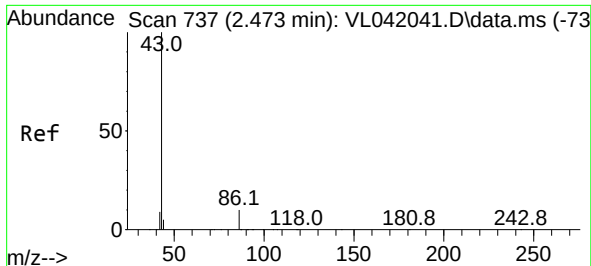
Tgt Ion: 84 Resp: 1739
Ion Ratio Lower Upper
84 100
49 115.3 130.0 195.0#
51 43.3 37.4 56.0
86 46.9 48.6 72.8#



#22
trans-1,2-Dichloroethene
Concen: 3.081 ppbv
RT: 2.745 min Scan# 821
Delta R.T. 0.395 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion: 96 Resp: 21296
Ion Ratio Lower Upper
96 100
61 161.4 136.6 205.0
98 65.1 51.8 77.6





#23

Vinyl Acetate

Concen: 0.031 ppbv

RT: 2.480 min Scan# 71

Delta R.T. 0.006 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Instrument :

MSVOA_1

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 300

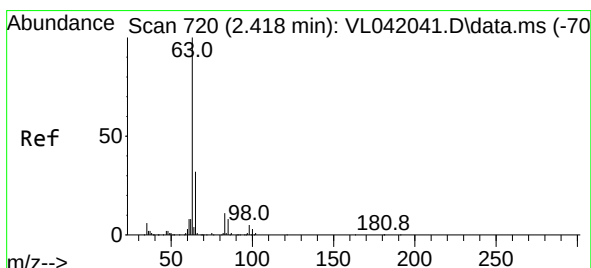
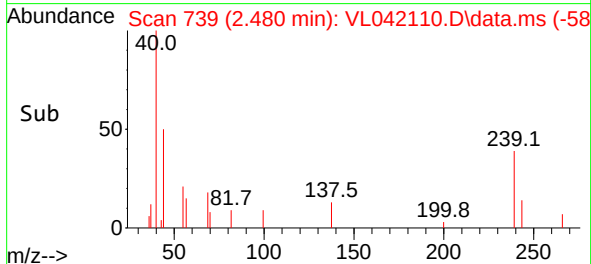
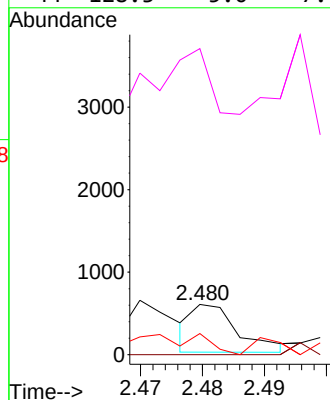
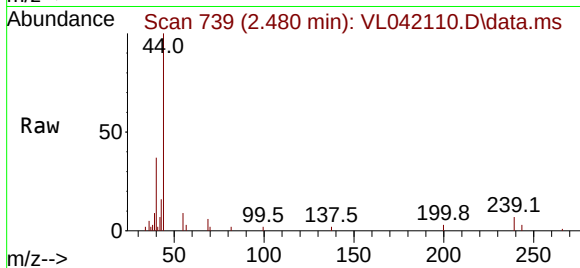
Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.4#

42 160.3 7.6 11.4#

44 128.3 5.0 7.4#



#24

1,1-Dichloroethane

Concen: 0.033 ppbv

RT: 2.363 min Scan# 703

Delta R.T. -0.055 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

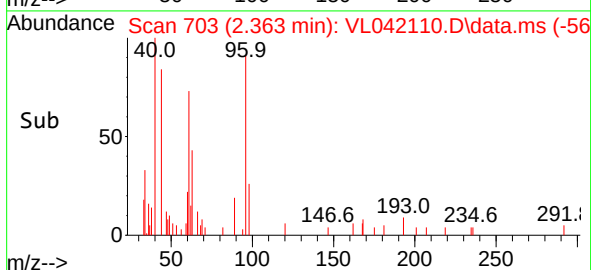
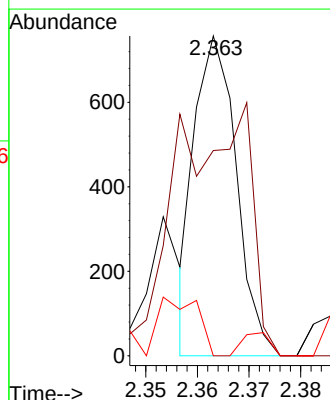
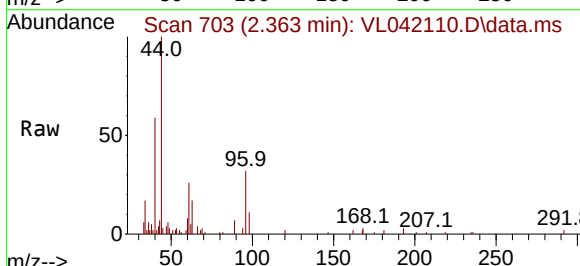
Tgt Ion: 63 Resp: 425

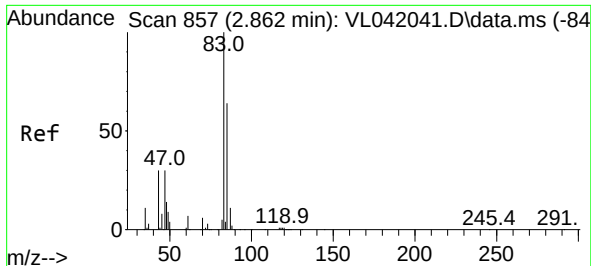
Ion Ratio Lower Upper

63 100

98 64.2 2.4 7.2#

100 0.0 1.7 5.0#





#29

Chloroform

Concen: 0.158 ppbv

RT: 2.871 min Scan# 8

Delta R.T. 0.010 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Instrument :

MSVOA_L

ClientSampleId :

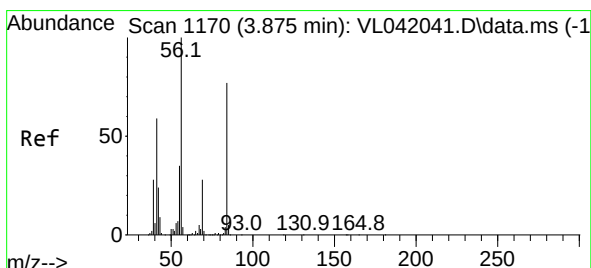
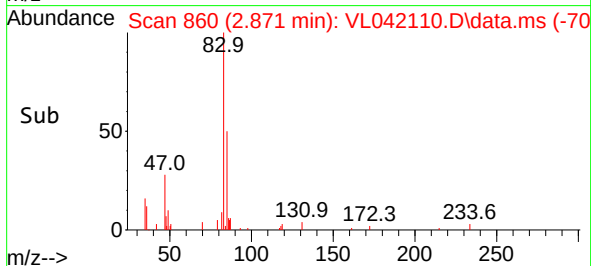
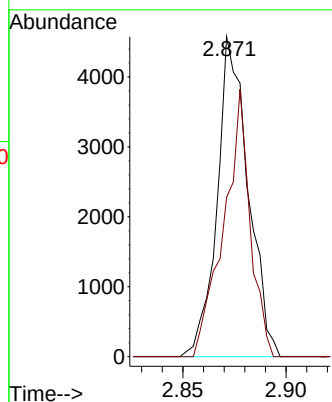
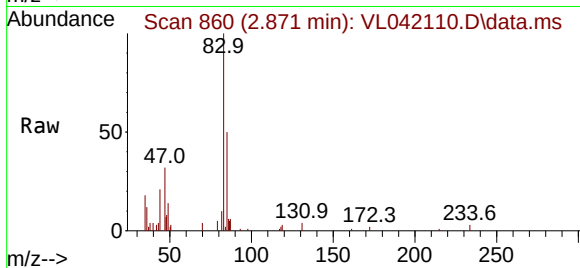
SV1

Tgt Ion: 83 Resp: 4787

Ion Ratio Lower Upper

83 100

85 49.8 51.2 76.8#



#30

Cyclohexane

Concen: 0.089 ppbv

RT: 3.991 min Scan# 1206

Delta R.T. 0.116 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

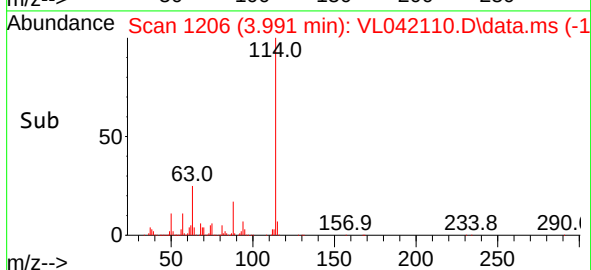
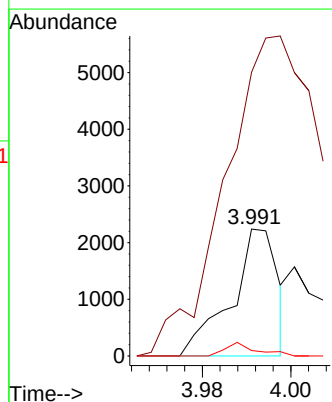
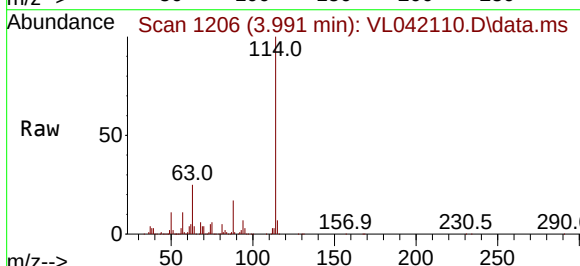
Tgt Ion: 84 Resp: 1635

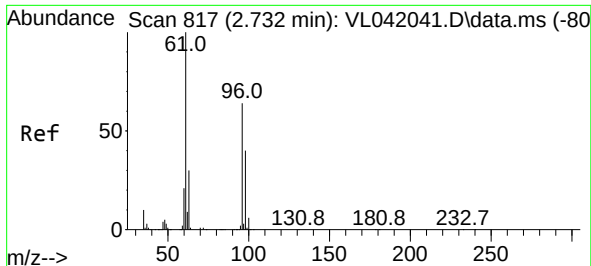
Ion Ratio Lower Upper

84 100

56 0.0 101.5 152.3#

41 7.0 62.6 93.8#

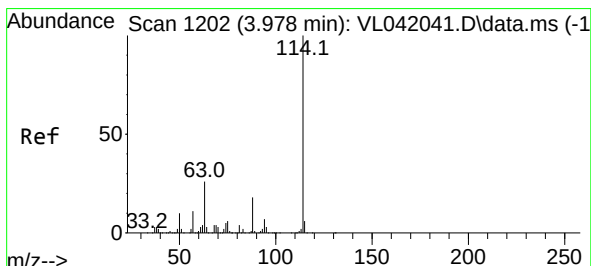
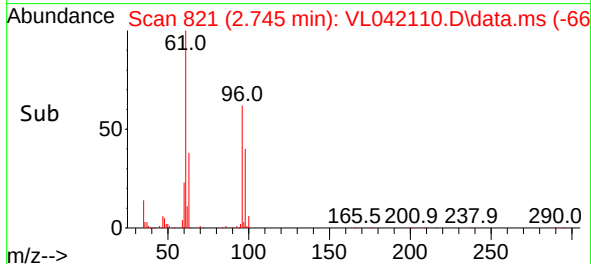
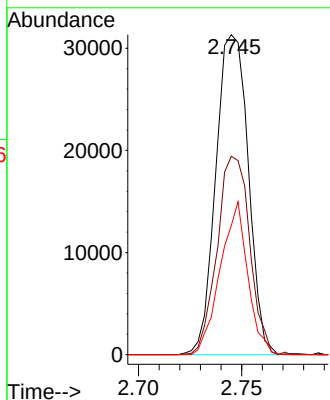
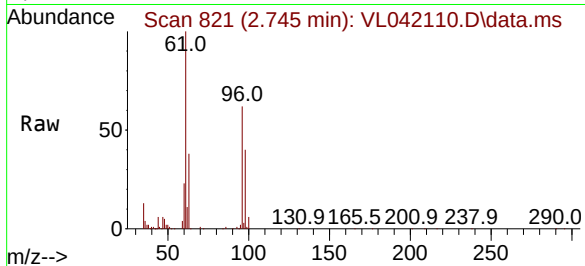




#31
 cis-1,2-Dichloroethene
 Concen: 1.602 ppbv
 RT: 2.745 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

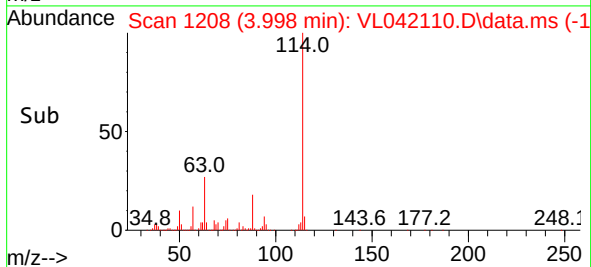
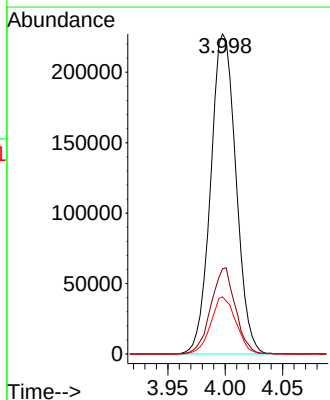
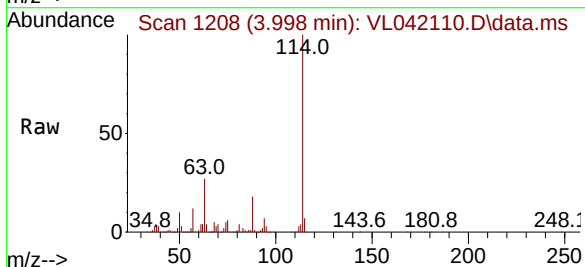
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

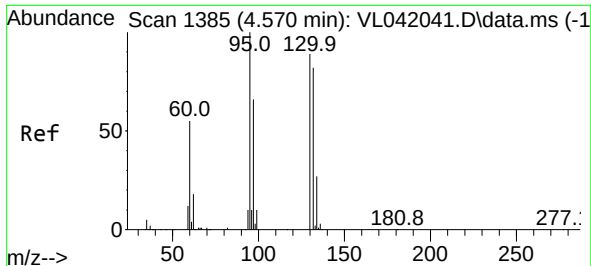
Tgt Ion: 61 Resp: 34215
 Ion Ratio Lower Upper
 61 100
 96 62.0 51.5 77.3
 98 40.4 32.0 48.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.998 min Scan# 1208
 Delta R.T. 0.019 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

Tgt Ion: 114 Resp: 348468
 Ion Ratio Lower Upper
 114 100
 63 26.2 20.1 30.1
 88 17.7 14.3 21.5

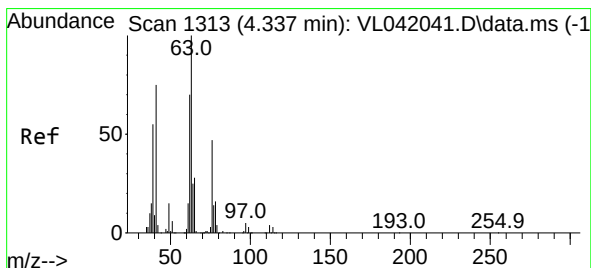
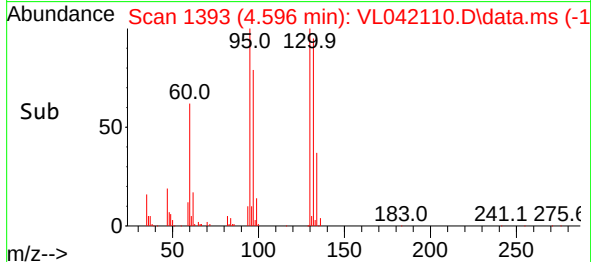
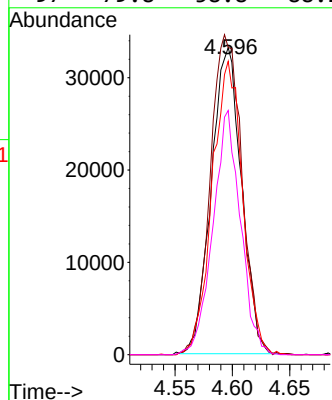
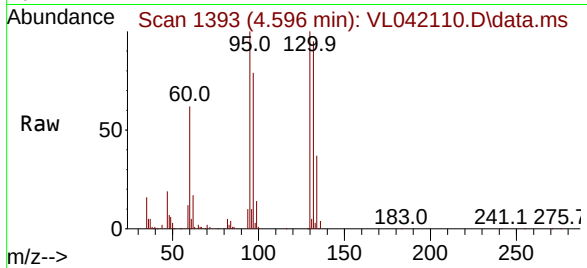




#38
 Trichloroethene
 Concen: 4.083 ppbv
 RT: 4.596 min Scan# 11
 Delta R.T. 0.026 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

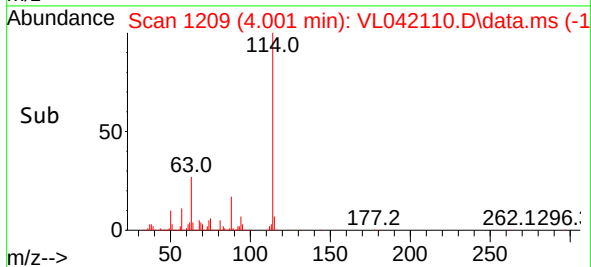
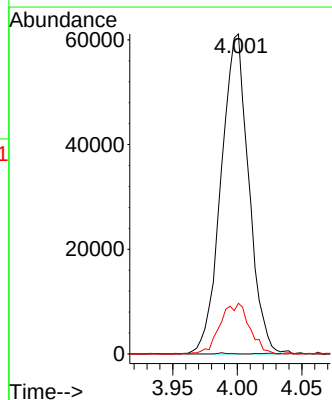
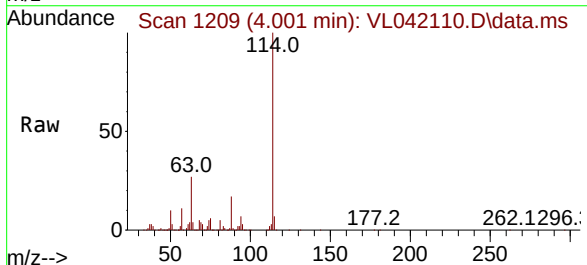
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

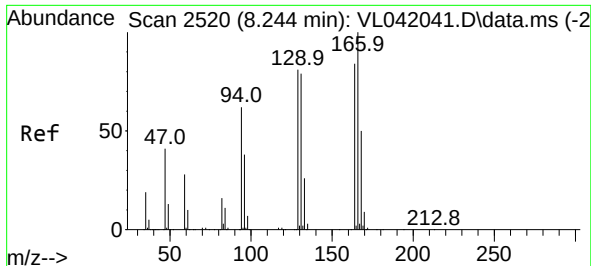
Tgt Ion:	130	Resp:	60818
Ion	Ratio	Lower	Upper
130	100		
95	100.2	89.5	134.3
132	95.5	73.8	110.6
97	79.8	58.8	88.2



#39
 1,2-Dichloropropane
 Concen: 6.573 ppbv
 RT: 4.001 min Scan# 1209
 Delta R.T. -0.337 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

Tgt Ion:	63	Resp:	91016
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.1	90.1#
62	15.8	55.8	83.8#

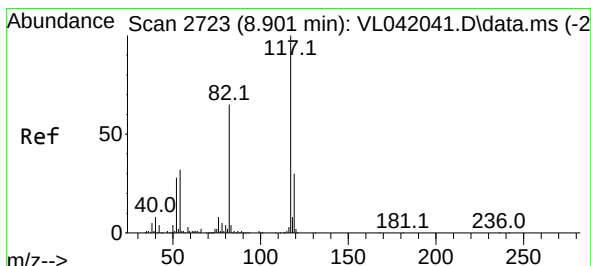
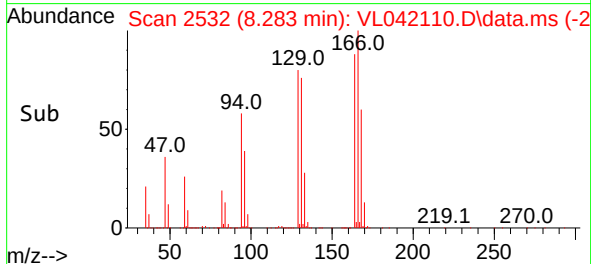
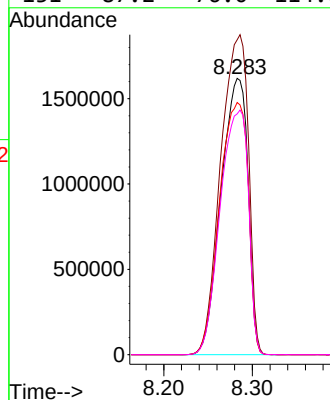
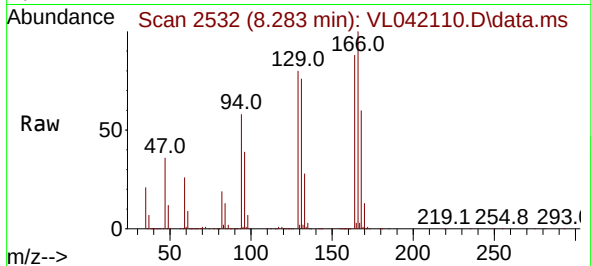




#52
Tetrachloroethene
Concen: 274.084 ppbv
RT: 8.283 min Scan# 21
Delta R.T. 0.039 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

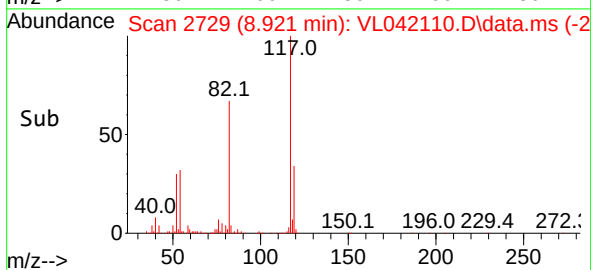
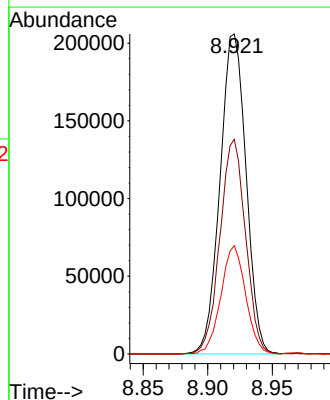
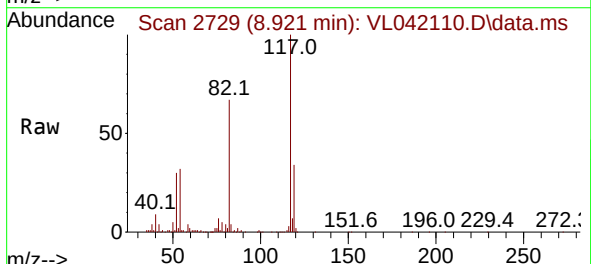
Instrument :
MSVOA_L
ClientSampleId :
SV1

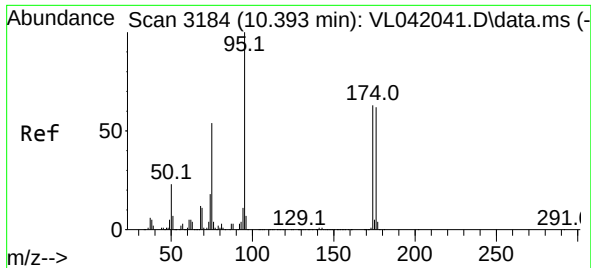
Tgt Ion:164 Resp: 3422840
Ion Ratio Lower Upper
164 100
166 113.9 95.7 143.5
129 91.2 77.1 115.7
131 87.2 76.0 114.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.019 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion:117 Resp: 288912
Ion Ratio Lower Upper
117 100
82 65.8 55.0 82.6
119 32.5 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.267 ppbv
 RT: 10.409 min Scan# 3189
 Delta R.T. 0.016 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 95 Resp: 205982
 Ion Ratio Lower Upper
 95 100
 174 60.6 51.8 77.6
 175 4.4 3.9 5.9

