Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
Data File : VL042557.D
Acq On : 21 May 2025 09:28
Operator : SY/MD
Sample : VL0521ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Quant Time: May 21 22:53:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 2.791 | 49 | 115052 | 10.000 | ppbv | 0.00 |
| 33) 1,4-Difluorobenzene | 3.965 | 114 | 371222 | 10.000 | ppbv | 0.00 |
| 55) Chlorobenzene-d5 | 8.888 | 117 | 319806 | 10.000 | ppbv | 0.00 |
| System Monitoring Compounds | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.384 | 95 | 251444 | 9.824 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 98.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.502 | 85 | 73 | 0.003 | ppbv # | 42 |
| 3) Chlorodifluoromethane | 1.826 | 51 | 145 | 0.008 | ppbv | 99 |
| 4) Chloromethane | 1.531 | 50 | 170 | 0.025 | ppbv # | 41 |
| 5) Vinyl Chloride | 1.580 | 62 | 31 | 0.004 | ppbv # | 1 |
| 6) Bromomethane | 1.677 | 94 | 23 | 0.005 | ppbv # | 3 |
| 7) Chloroethane | 1.972 | 64 | 34 | 0.011 | ppbv # | 53 |
| 8) Dichlorotetrafluoroethane | 1.502 | 85 | 73 | 0.004 | ppbv # | 14 |
| 10) Heptane | 4.975 | 43 | 34 | 0.002 | ppbv # | 24 |
| 14) Bromoethene | 1.787 | 108 | 35 | 0.005 | ppbv # | 1 |
| 17) tert-Butyl alcohol | 2.046 | 59 | 186 | 0.010 | ppbv # | 77 |
| 18) 1,1-Dichloroethene | 2.030 | 96 | 15 | 0.002 | ppbv # | 1 |
| 21) Allyl Chloride | 2.104 | 41 | 140 | 0.014 | ppbv # | 19 |
| 22) trans-1,2-Dichloroethene | 2.344 | 96 | 41 | 0.005 | ppbv # | 1 |
| 23) Vinyl Acetate | 2.457 | 43 | 456 | 0.025 | ppbv # | 1 |
| 24) 1,1-Dichloroethane | 2.418 | 63 | 42 | 0.003 | ppbv # | 86 |
| 25) Ethyl Acetate | 2.839 | 43 | 48 | 0.002 | ppbv # | 74 |
| 26) Hexane | 2.567 | 57 | 34 | 0.002 | ppbv # | 1 |
| 27) Carbon Disulfide | 2.153 | 76 | 142 | 0.007 | ppbv # | 1 |
| 28) Methyl tert-Butyl Ether | 2.438 | 73 | 30 | 0.003 | ppbv # | 75 |
| 29) Chloroform | 2.862 | 83 | 43 | 0.002 | ppbv | 84 |
| 31) cis-1,2-Dichloroethene | 2.341 | 61 | 34 | 0.002 | ppbv # | 23 |
| 36) Benzene | 3.661 | 78 | 93 | 0.003 | ppbv # | 56 |
| 41) Tetrahydrofuran | 3.088 | 42 | 28 | 0.003 | ppbv # | 33 |
| 42) Bromodichloromethane | 4.192 | 83 | 81 | 0.003 | ppbv # | 25 |
| 46) cis-1,3-Dichloropropene | 5.606 | 75 | 32 | 0.002 | ppbv # | 29 |
| 48) Dibromochloromethane | 7.387 | 129 | 36 | 0.002 | ppbv # | 40 |
| 49) Bromoform | 9.494 | 173 | 106 | 0.006 | ppbv # | 75 |
| 50) 4-Methyl-2-Pentanone | 5.801 | 43 | 34 | 0.001 | ppbv # | 37 |
| 51) 2-Hexanone | 7.370 | 43 | 26 | 0.001 | ppbv # | 27 |
| 53) Toluene | 6.946 | 91 | 132 | 0.004 | ppbv # | 21 |
| 54) 1,2-Dibromoethane | 7.658 | 107 | 23 | 0.001 | ppbv # | 32 |
| 57) Chlorobenzene | 8.927 | 112 | 95 | 0.003 | ppbv # | 56 |
| 58) Ethyl Benzene | 9.367 | 91 | 83 | 0.002 | ppbv # | 33 |
| 59) m/p-Xylene | 9.562 | 91 | 309 | 0.009 | ppbv # | 30 |
| 60) o-Xylene | 9.966 | 91 | 337 | 0.010 | ppbv | 97 |
| 61) Styrene | 9.876 | 104 | 60 | 0.004 | ppbv # | 60 |
| 62) Isopropylbenzene | 10.546 | 105 | 198 | 0.004 | ppbv # | 50 |
| 63) 1,1,2,2-Tetrachloroethane | 9.969 | 83 | 231 | 0.010 | ppbv # | 60 |
| 64) n-propylbenzene | 10.999 | 120 | 90 | 0.007 | ppbv # | 1 |
| 65) tert-Butylbenzene | 11.539 | 119 | 473 | 0.010 | ppbv # | 63 |
| 66) Benzyl Chloride | 11.620 | 91 | 50 | 0.008 | ppbv # | 65 |
| 67) sec-Butylbenzene | 11.769 | 105 | 438 | 0.006 | ppbv # | 1 |
| 69) p-Isopropyltoluene | 11.934 | 119 | 230 | 0.004 | ppbv # | 58 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
Data File : VL042557.D
Acq On : 21 May 2025 09:28
Operator : SY/MD
Sample : VL0521ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Quant Time: May 21 22:53:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 70) n-Butylbenzene | 12.287 | 91 | 148 | 0.003 | ppbv | # | 58 |
| 71) 2-Chlorotoluene | 10.908 | 91 | 217 | 0.006 | ppbv | # | 44 |
| 72) 4-Ethyltoluene | 11.135 | 105 | 285 | 0.007 | ppbv | # | 62 |
| 73) 1,3,5-Trimethylbenzene | 11.215 | 105 | 953 | 0.025 | ppbv | # | 62 |
| 75) 1,3-Dichlorobenzene | 11.614 | 146 | 115 | 0.004 | ppbv | # | 17 |
| 76) 1,4-Dichlorobenzene | 11.675 | 146 | 386 | 0.014 | ppbv | | 88 |
| 77) 1,2-Dichlorobenzene | 11.953 | 146 | 317 | 0.011 | ppbv | | 75 |
| 78) Hexachloro-1,3-Butadiene | 13.889 | 225 | 263 | 0.011 | ppbv | # | 76 |
| 79) Naphthalene | 13.520 | 128 | 923 | 0.027 | ppbv | # | 96 |

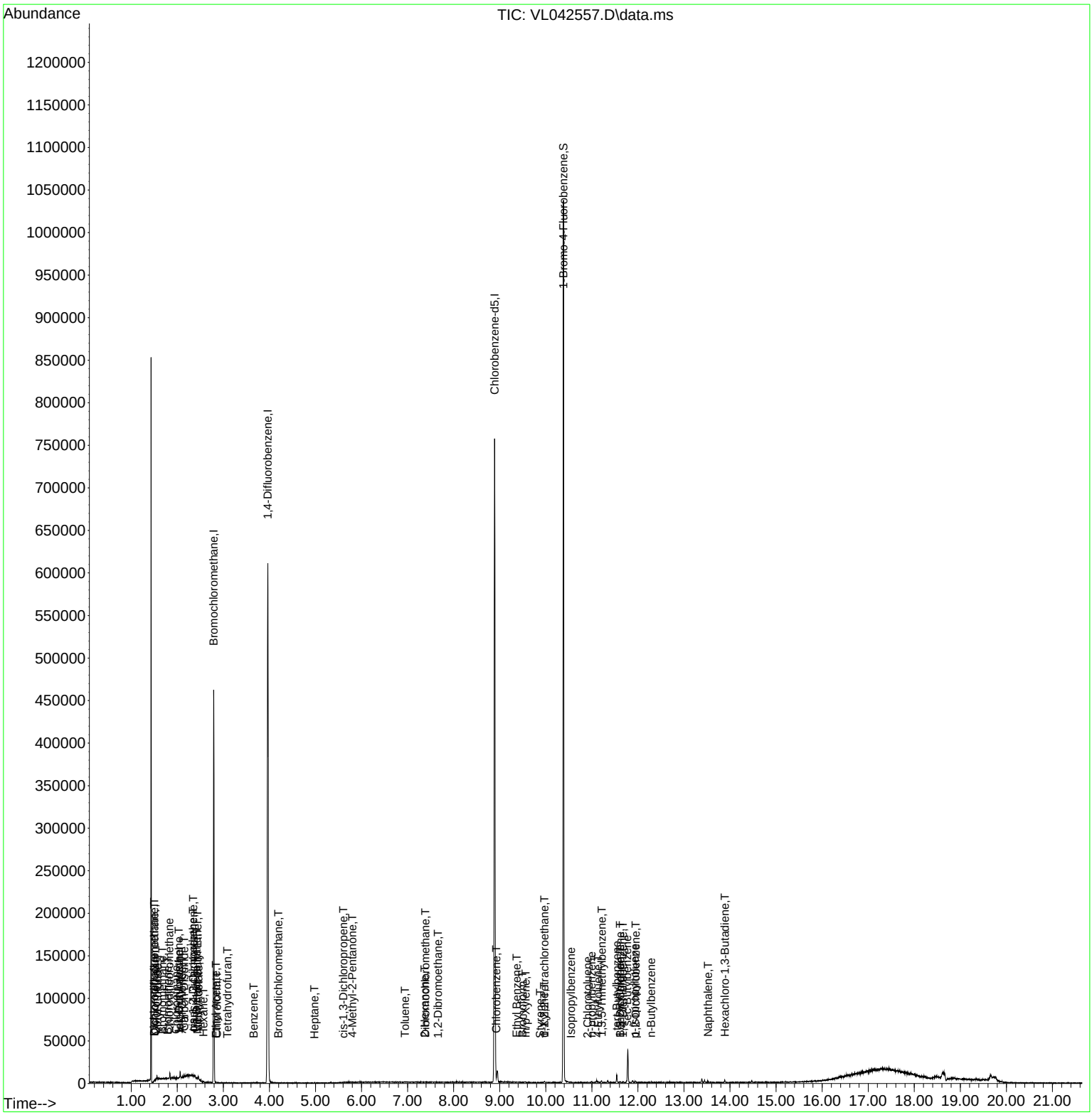
(#) = qualifier out of range (m) = manual integration (+) = signals summed

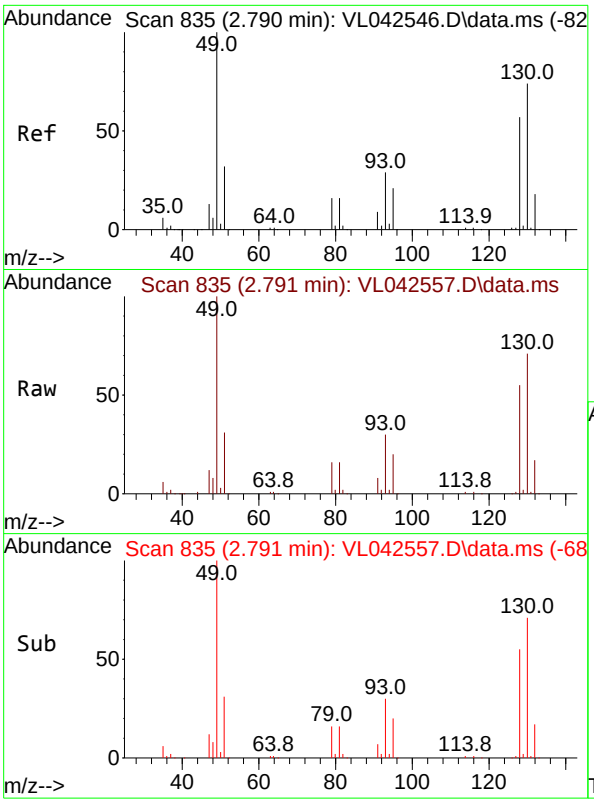
Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
Data File : VL042557.D
Acq On : 21 May 2025 09:28
Operator : SY/MD
Sample : VL0521ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Quant Time: May 21 22:53:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration



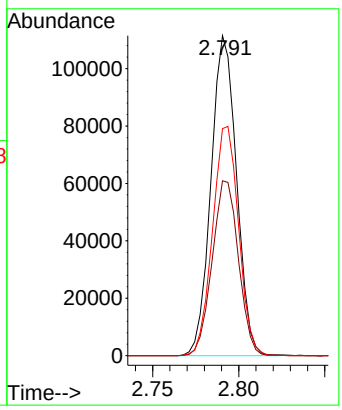


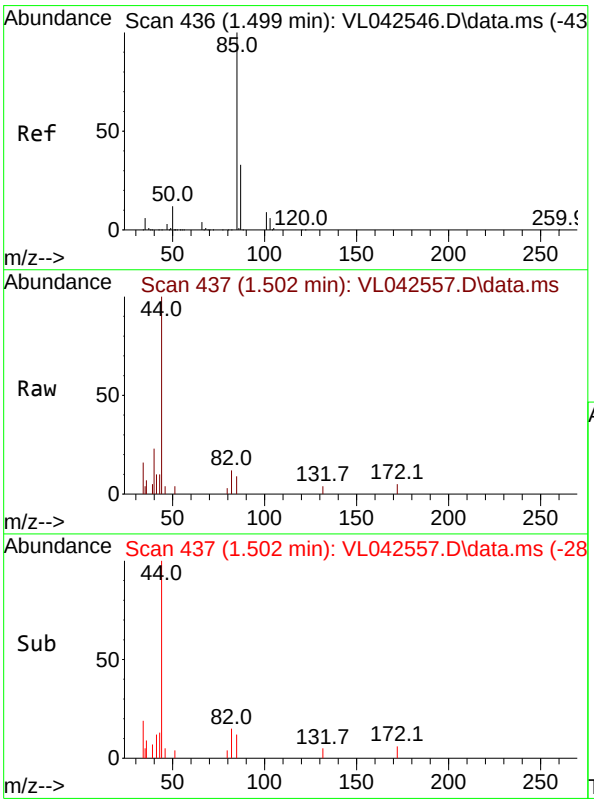

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 8
Delta R.T. 0.001 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 49 Resp: 115052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 56.2 | 28.6 | 85.8 |
| 130 | 73.0 | 36.6 | 109.8 |

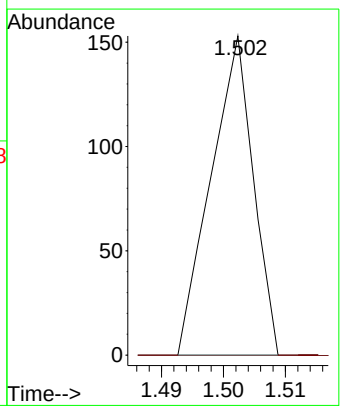


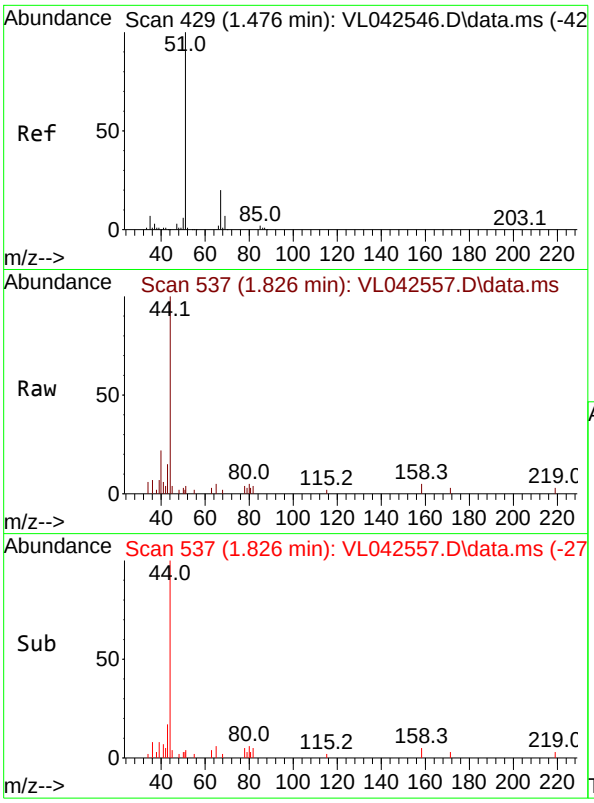




#2
Dichlorodifluoromethane
Concen: 0.003 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 85 Resp: 73

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 0.0 | 26.2 | 39.4# |



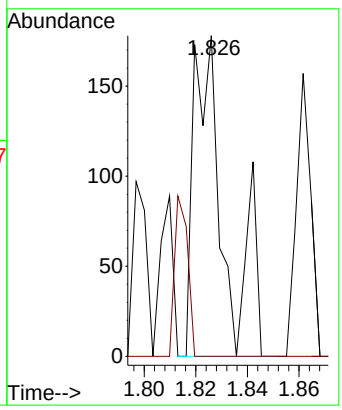


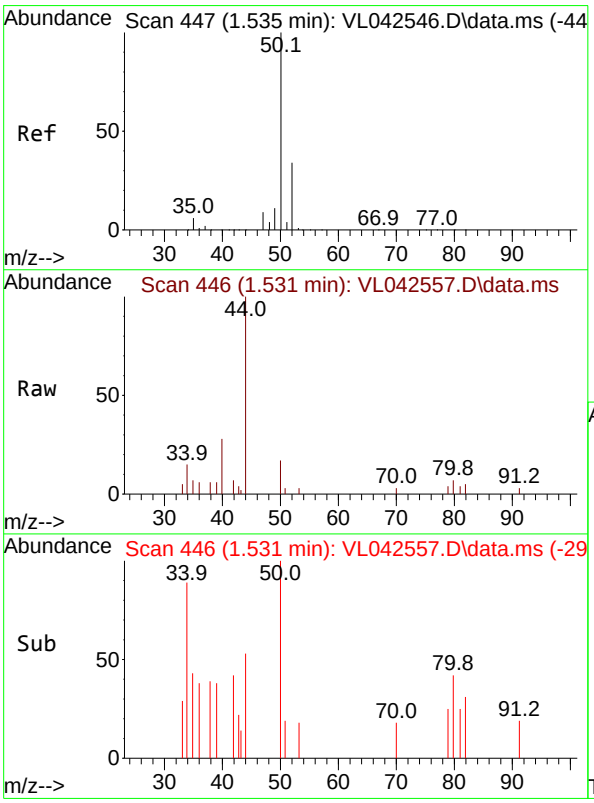

#3
Chlorodifluoromethane
Concen: 0.008 ppbv
RT: 1.826 min Scan# 5
Delta R.T. 0.350 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 51 Resp: 145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 21.4 | 16.6 | 25.0 |

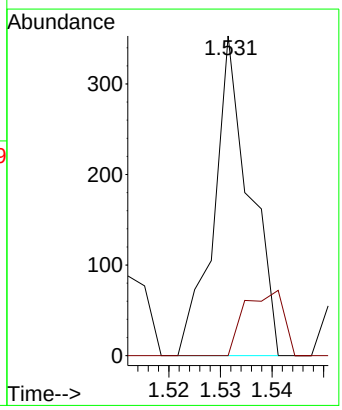


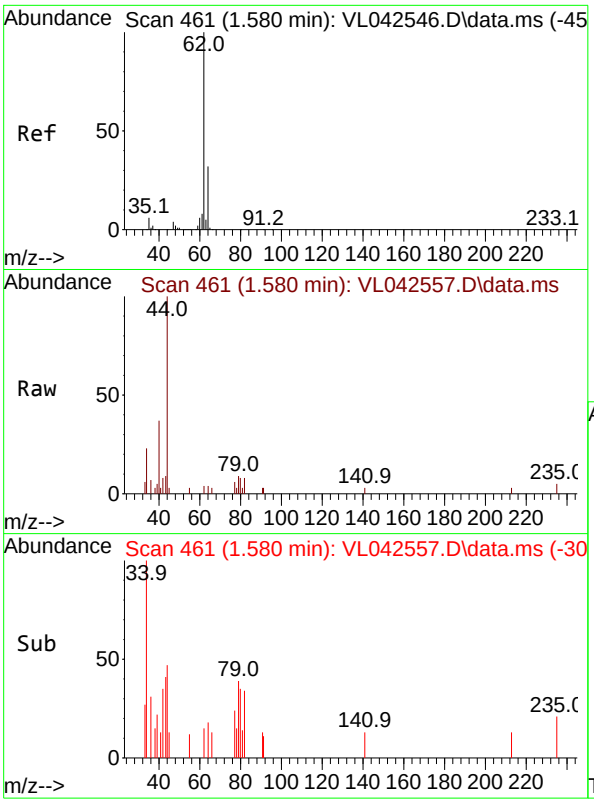




#4
Chloromethane
Concen: 0.025 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 50 Resp: 170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 26.9 | 40.3# |



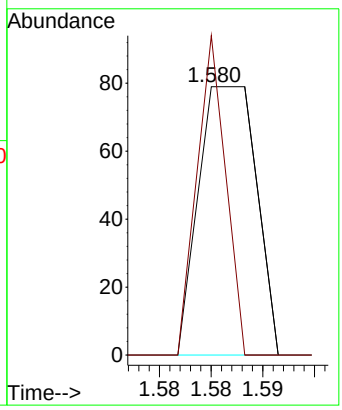


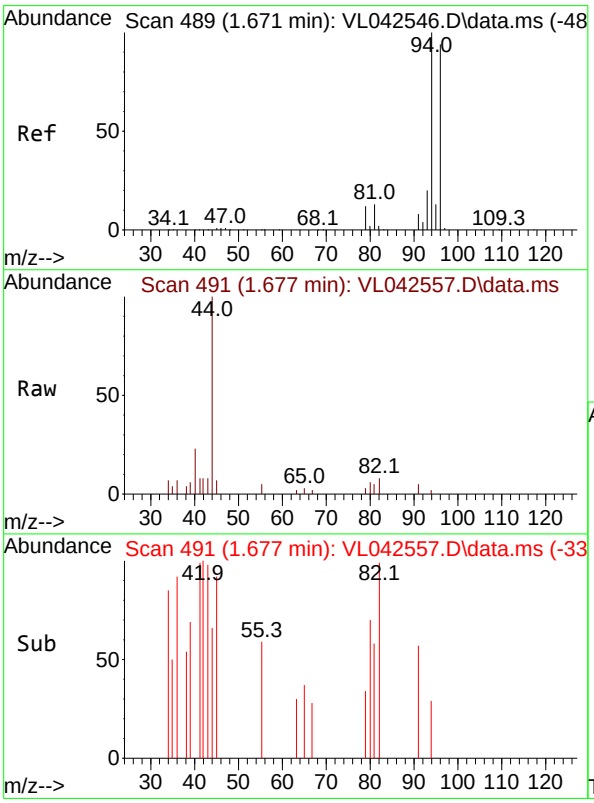

#5
Vinyl Chloride
Concen: 0.004 ppbv
RT: 1.580 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 62 Resp: 31

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 119.0 | 25.7 | 38.5# |

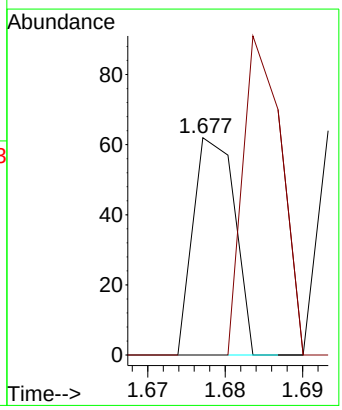


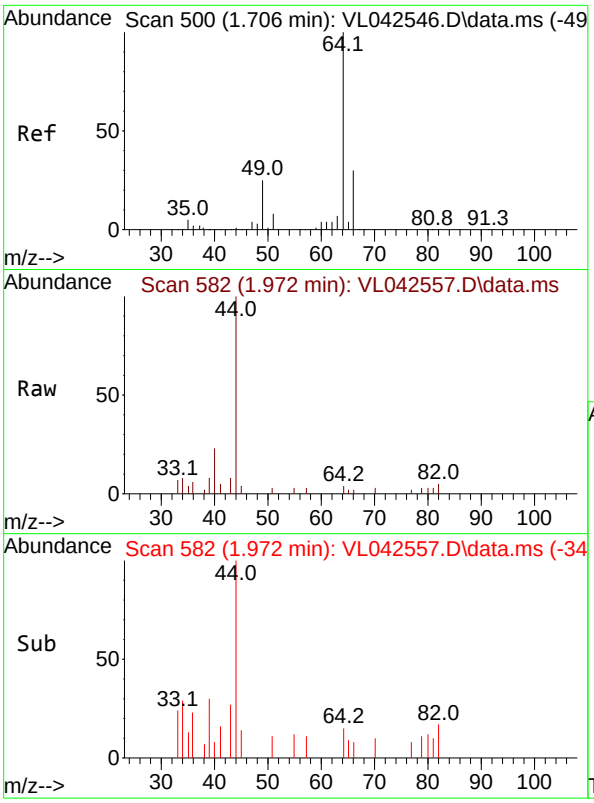




#6
Bromomethane
Concen: 0.005 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.007 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 94 Resp: 23

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 74.9 | 112.3# |



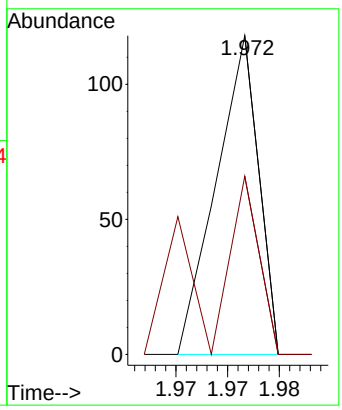


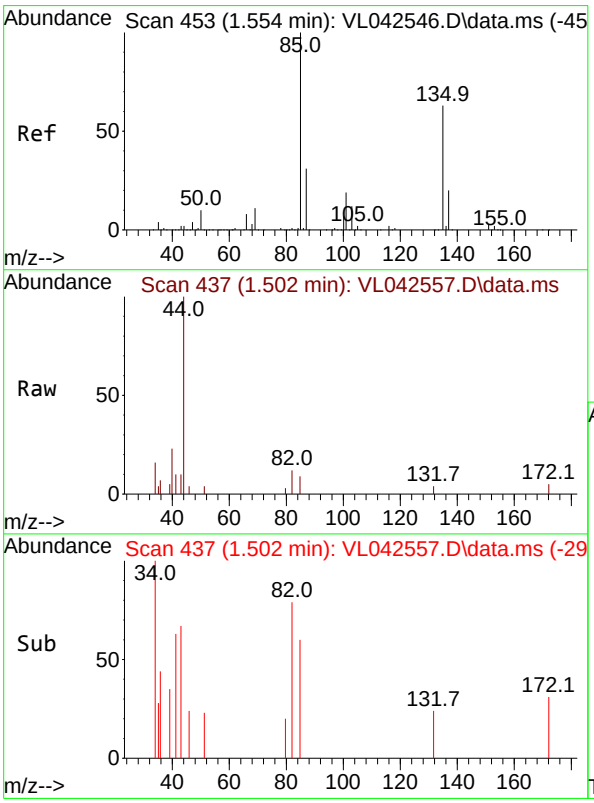

#7
Chloroethane
Concen: 0.011 ppbv
RT: 1.972 min Scan# 5
Delta R.T. 0.266 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 64 Resp: 34

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 55.9 | 24.4 | 36.6# |

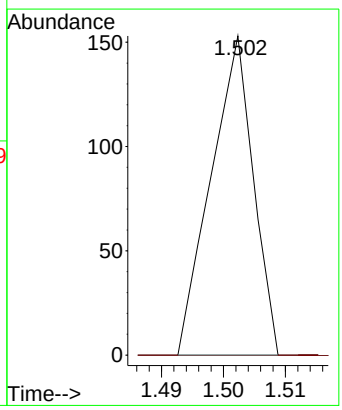


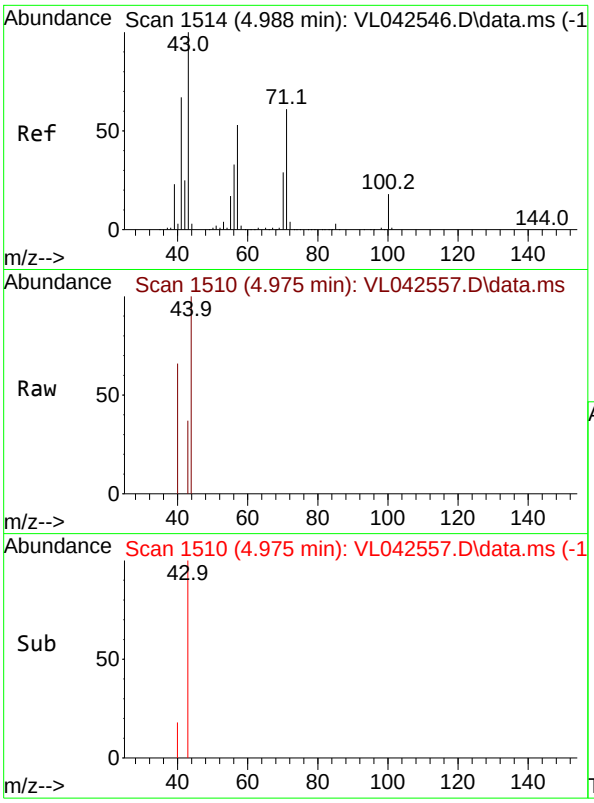




#8
Dichlorotetrafluoroethane
Concen: 0.004 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.052 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 85 Resp: 73

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 135 | 0.0 | 57.2 | 85.8# |



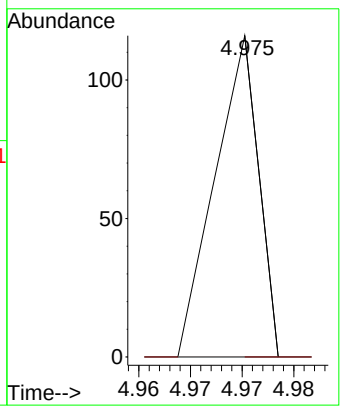


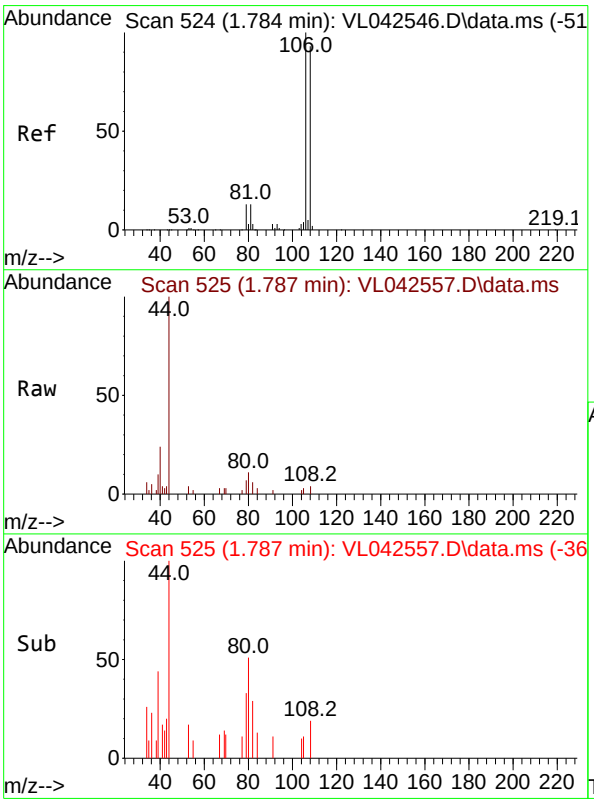

#10
Heptane
Concen: 0.002 ppbv
RT: 4.975 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 43 Resp: 34

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 43.4 | 65.0# |

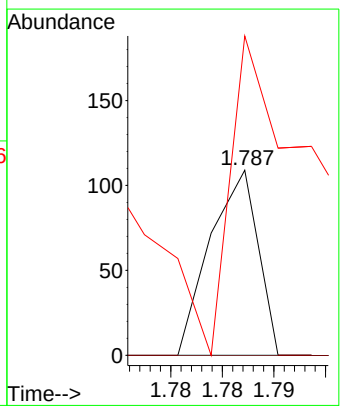


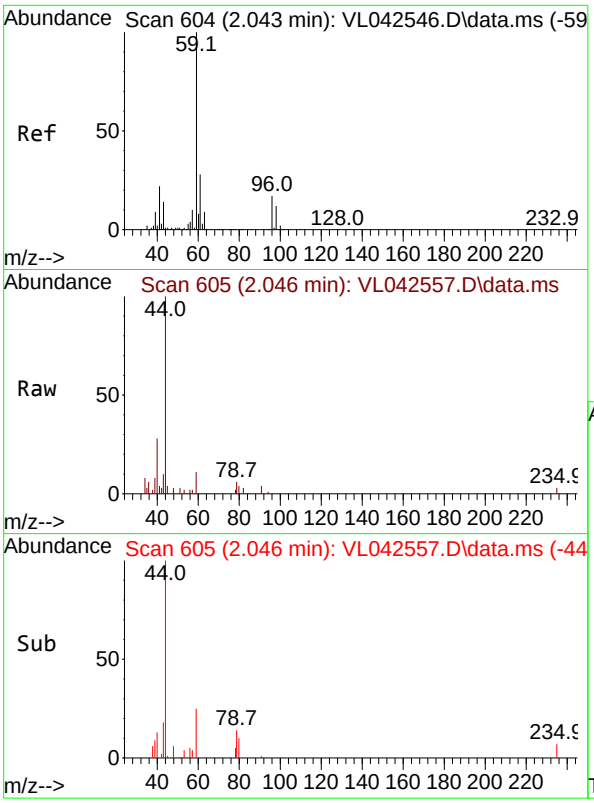




#14
Bromoethene
Concen: 0.005 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:108 Resp: 35

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 106 | 0.0 | 86.4 | 129.6# |
| 79 | 791.4 | 11.9 | 17.9# |



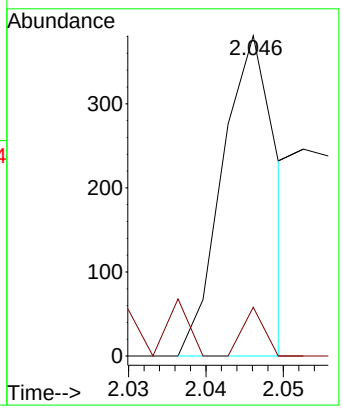


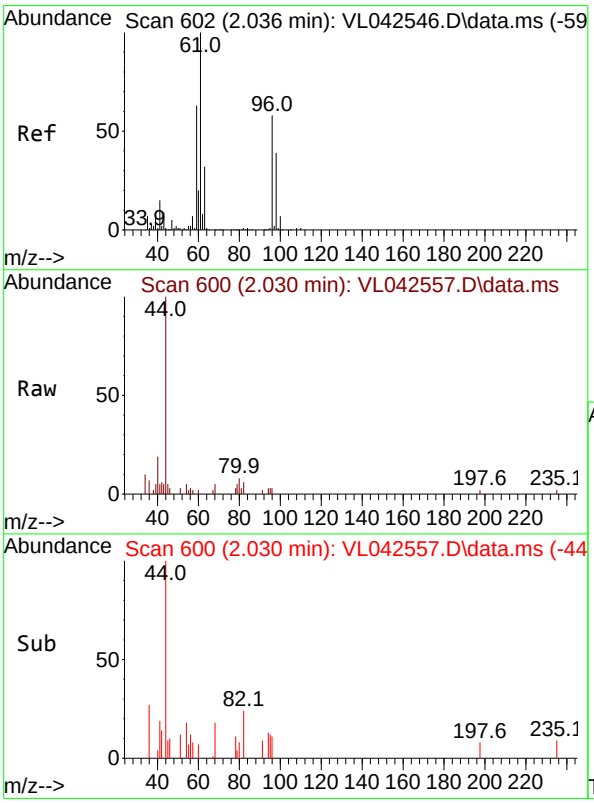

#17
tert-Butyl alcohol
Concen: 0.010 ppbv
RT: 2.046 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 59 Resp: 186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 18.8 | 8.2 | 12.2# |

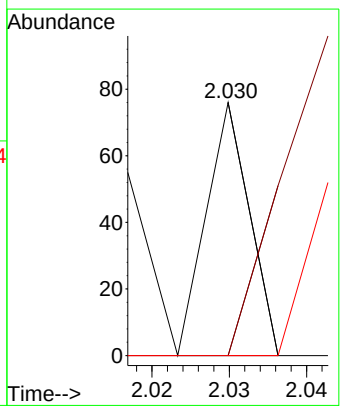


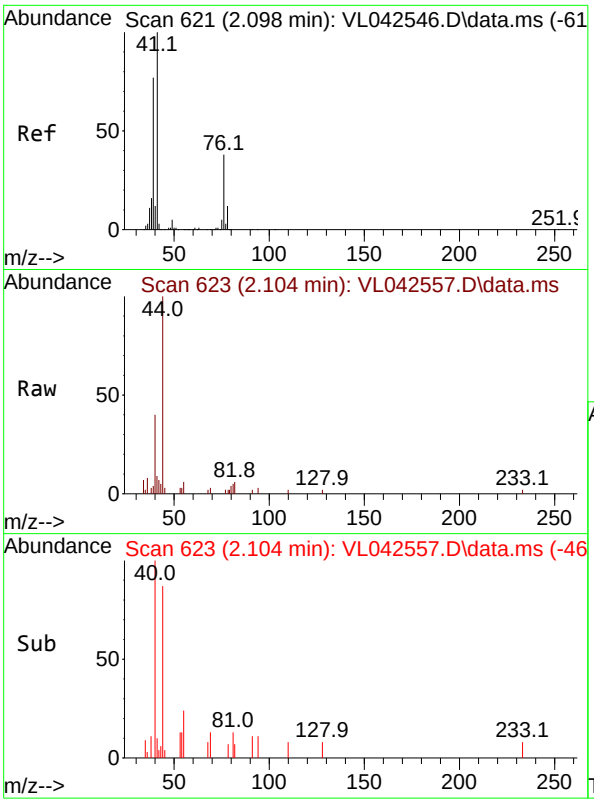




#18
1,1-Dichloroethene
Concen: 0.002 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.006 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 96 Resp: 15

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 0.0 | 137.5 | 206.3# |
| 98 | 0.0 | 53.2 | 79.8# |



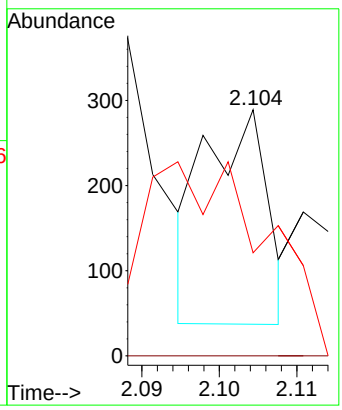


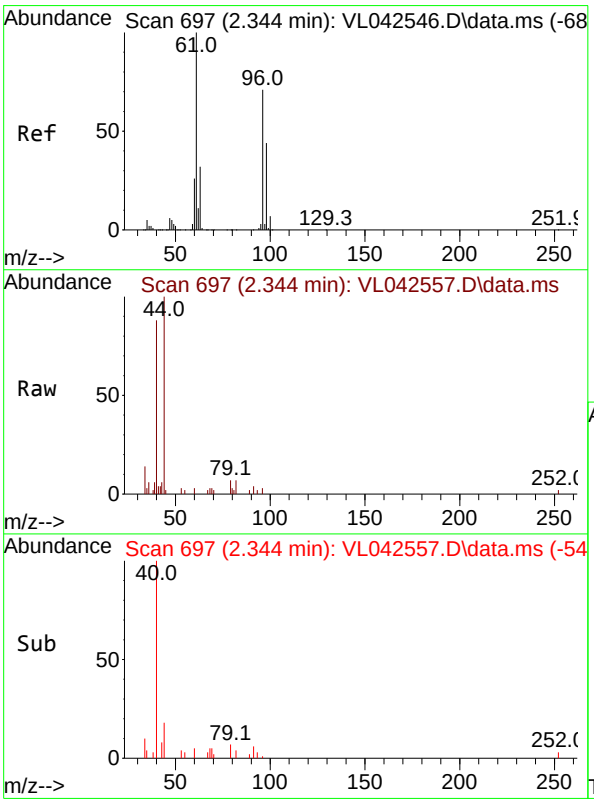

#21
Allyl Chloride
Concen: 0.014 ppbv
RT: 2.104 min Scan# 6
Delta R.T. 0.007 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 41 Resp: 140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 30.2 | 45.4# |
| 39 | 0.0 | 62.5 | 93.7# |

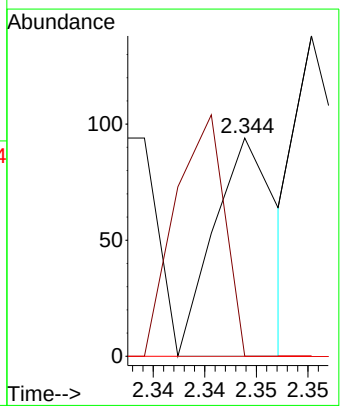


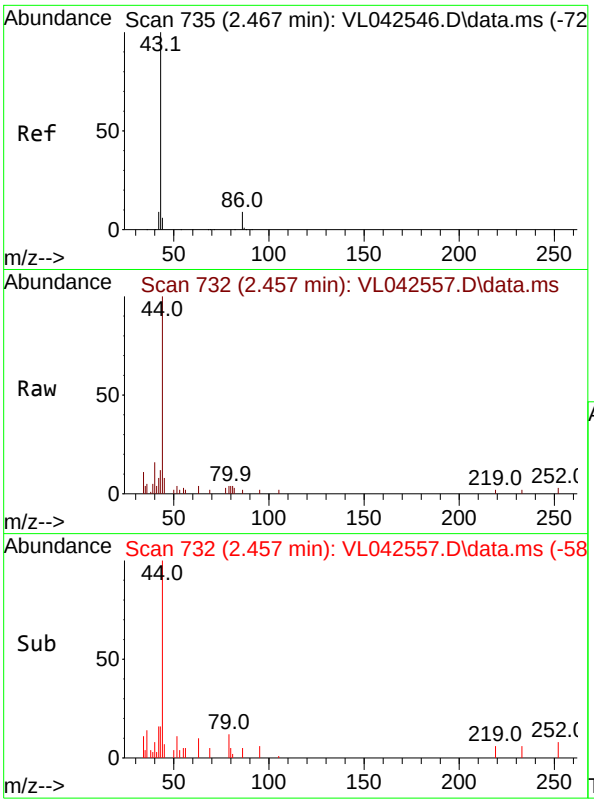




#22
trans-1,2-Dichloroethene
Concen: 0.005 ppbv
RT: 2.344 min Scan# 697
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 96 Resp: 41

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 0.0 | 112.5 | 168.7# |
| 98 | 0.0 | 49.0 | 73.4# |



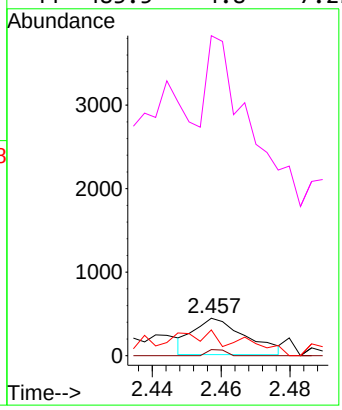


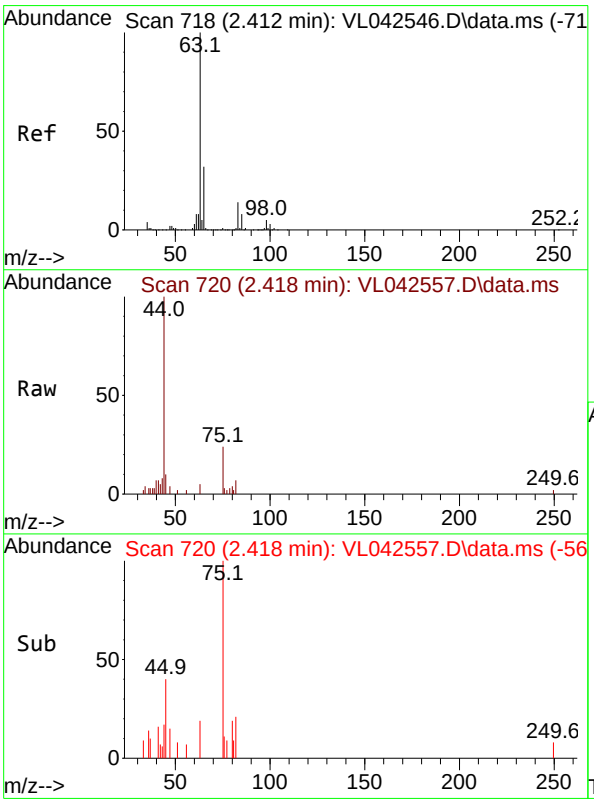

#23
Vinyl Acetate
Concen: 0.025 ppbv
RT: 2.457 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 43 Resp: 456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 21.6 | 7.0 | 10.6# |
| 42 | 55.9 | 7.4 | 11.2# |
| 44 | 483.5 | 4.8 | 7.2# |

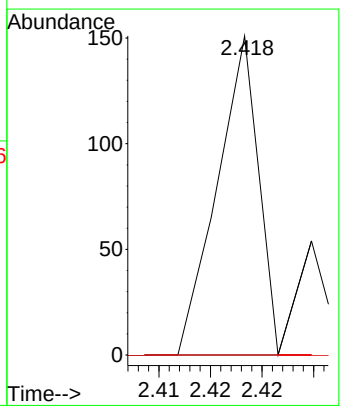


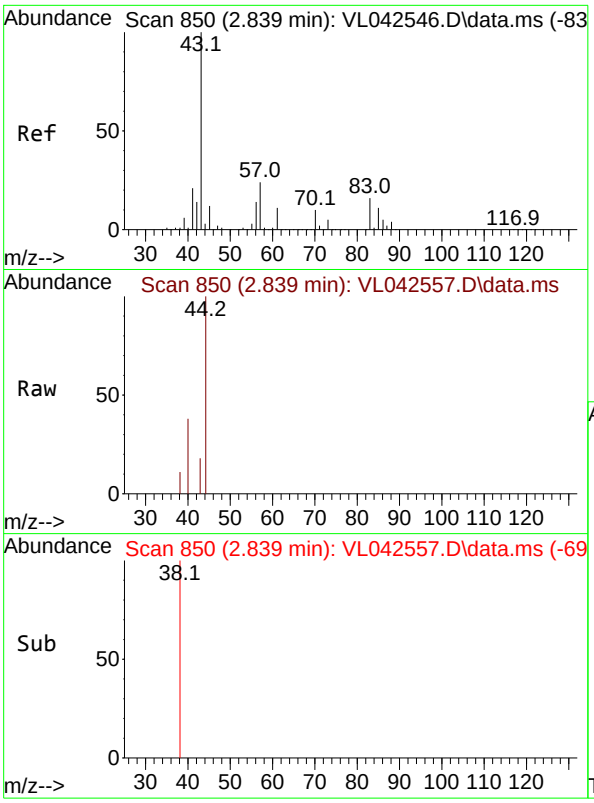




#24
1,1-Dichloroethane
Concen: 0.003 ppbv
RT: 2.418 min Scan# 720
Delta R.T. 0.007 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 63 Resp: 42

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 0.0 | 2.6 | 7.8# |
| 100 | 0.0 | 1.8 | 5.3# |



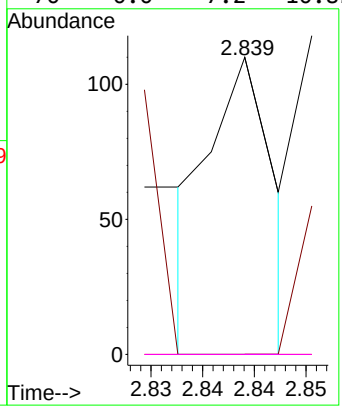


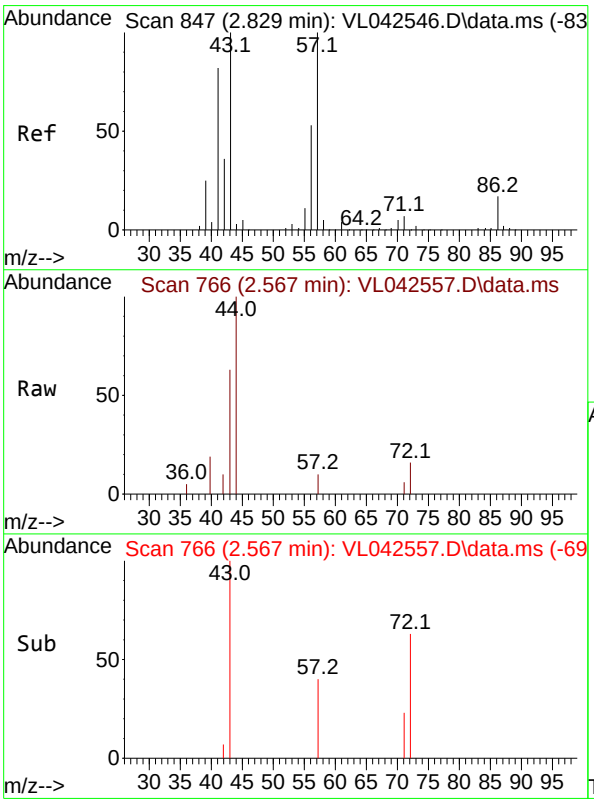

#25
Ethyl Acetate
Concen: 0.002 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 43 Resp: 48

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.0 | 8.0 | 12.0# |
| 61 | 0.0 | 7.5 | 11.3# |
| 70 | 0.0 | 7.2 | 10.8# |

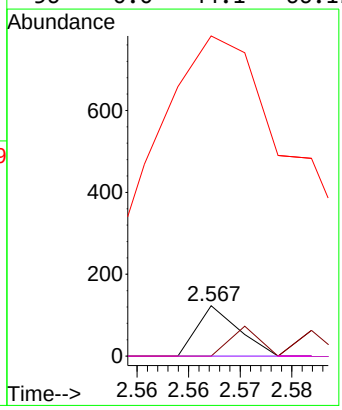


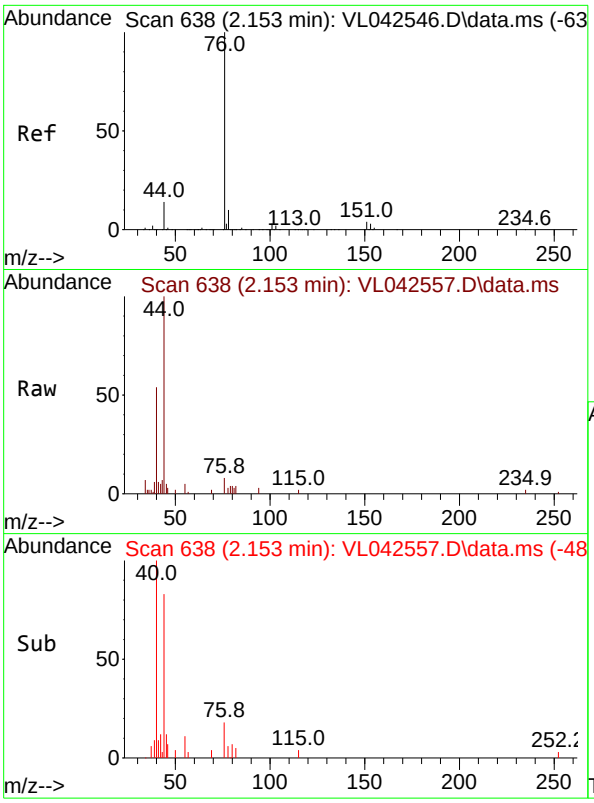




#26
Hexane
Concen: 0.002 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.262 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 57 Resp: 34

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 0.0 | 69.0 | 103.4# |
| 43 | 2700.0 | 174.2 | 261.2# |
| 56 | 0.0 | 44.1 | 66.1# |



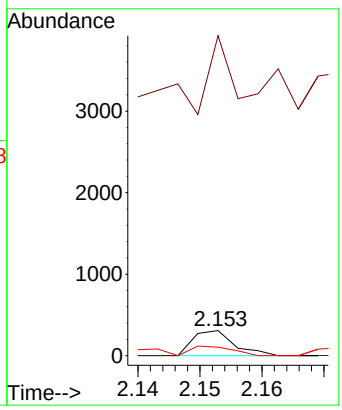


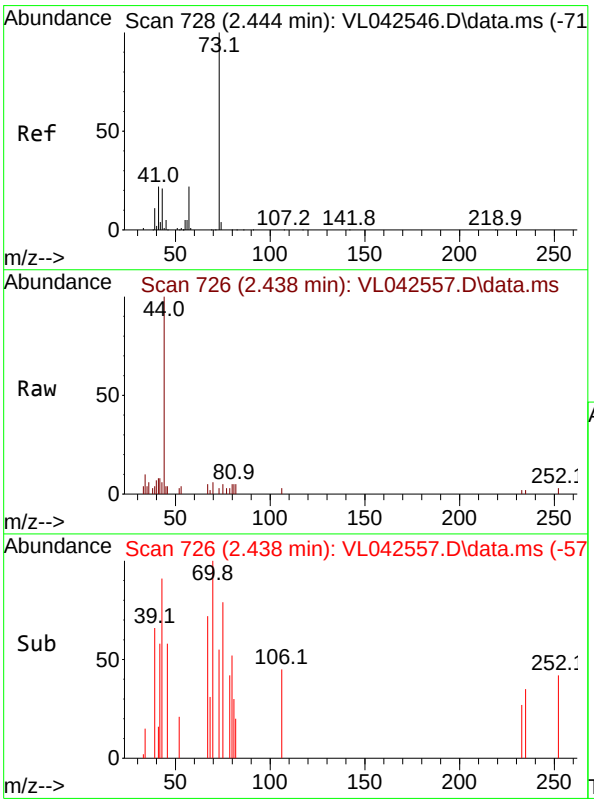

#27
Carbon Disulfide
Concen: 0.007 ppbv
RT: 2.153 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 76 Resp: 142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 2865.5 | 14.0 | 21.0# |
| 78 | 113.4 | 9.4 | 14.0# |

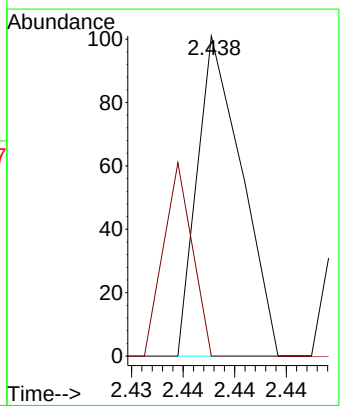


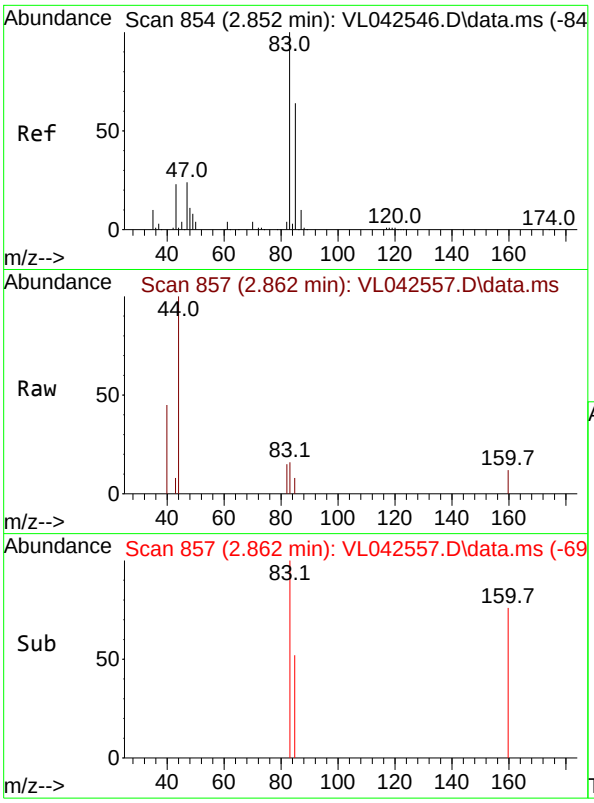




#28
Methyl tert-Butyl Ether
Concen: 0.003 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.006 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 73 Resp: 30

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 33.3 | 17.2 | 25.8# |



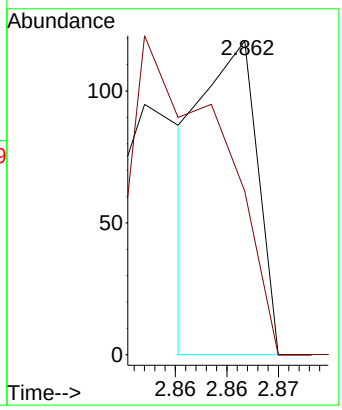


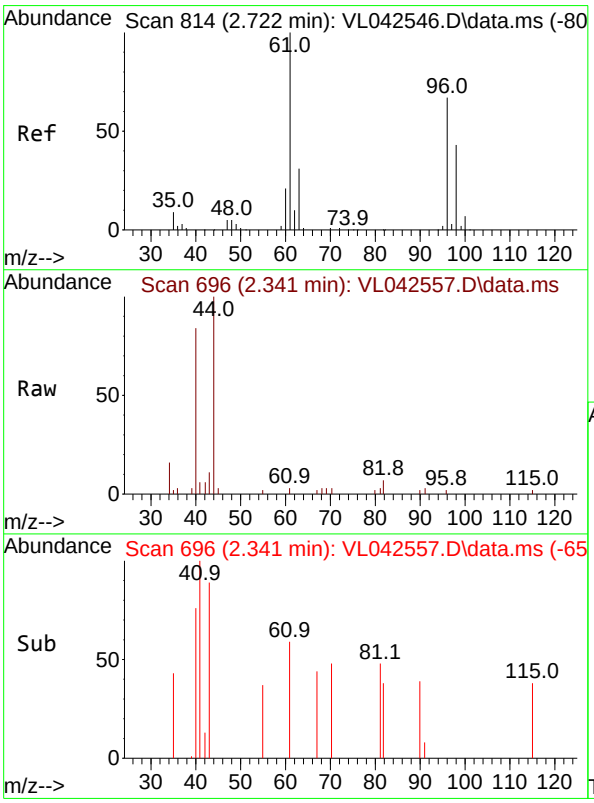

#29
Chloroform
Concen: 0.002 ppbv
RT: 2.862 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 83 Resp: 43

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 52.1 | 51.6 | 77.4 |

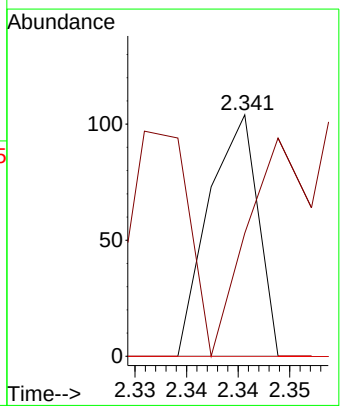


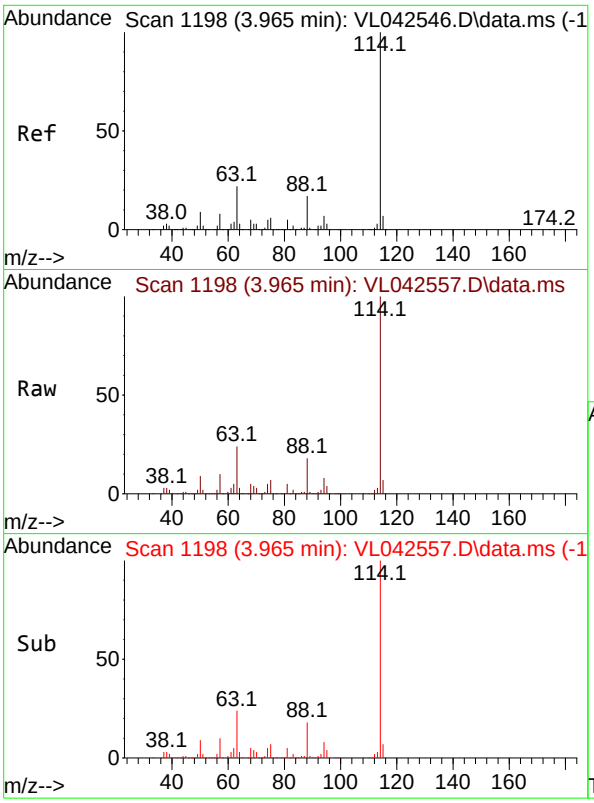




#31
cis-1,2-Dichloroethene
Concen: 0.002 ppbv
RT: 2.341 min Scan# 696
Delta R.T. -0.382 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 61 Resp: 34

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 0.0 | 53.8 | 80.8# |
| 98 | 0.0 | 34.5 | 51.7# |



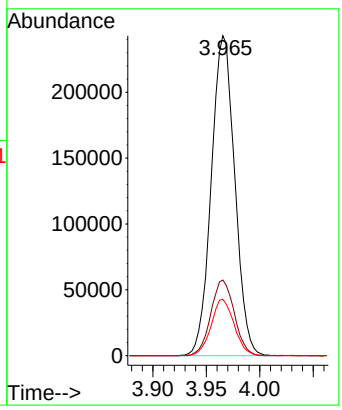


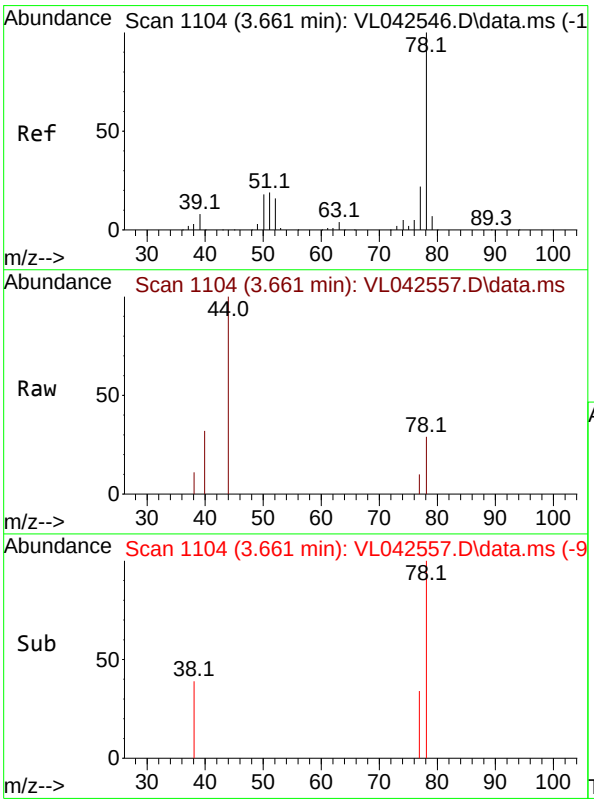

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:114 Resp: 371222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.7 | 18.4 | 27.6 |
| 88 | 17.3 | 14.0 | 21.0 |

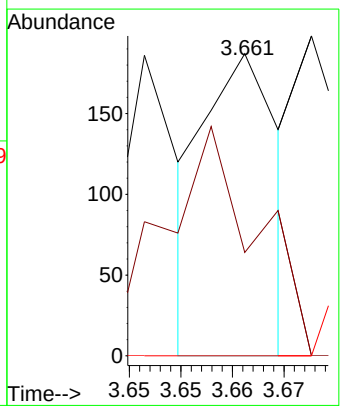


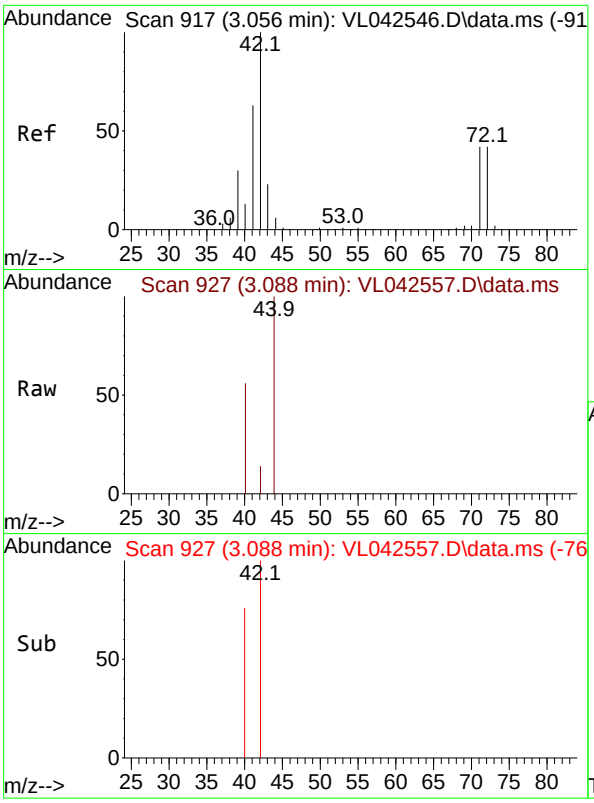




#36
Benzene
Concen: 0.003 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 78 Resp: 93

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 0.0 | 17.8 | 26.6# |
| 50 | 0.0 | 14.0 | 21.0# |



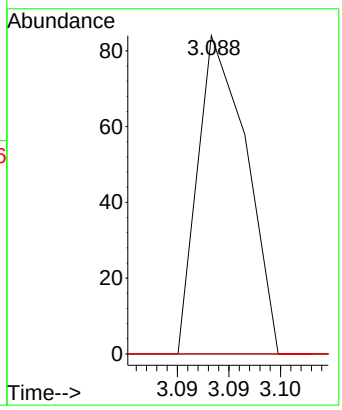


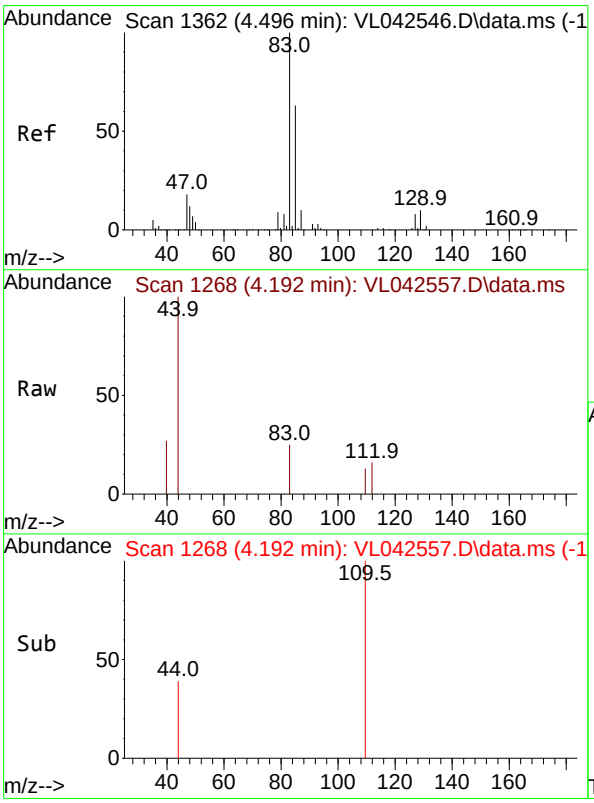

#41
Tetrahydrofuran
Concen: 0.003 ppbv
RT: 3.088 min Scan# 9
Delta R.T. 0.032 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 42 Resp: 28

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 34.8 | 52.2# |
| 71 | 0.0 | 33.6 | 50.4# |

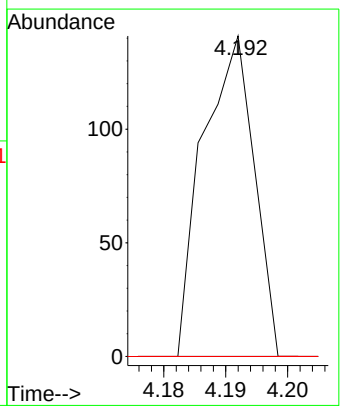


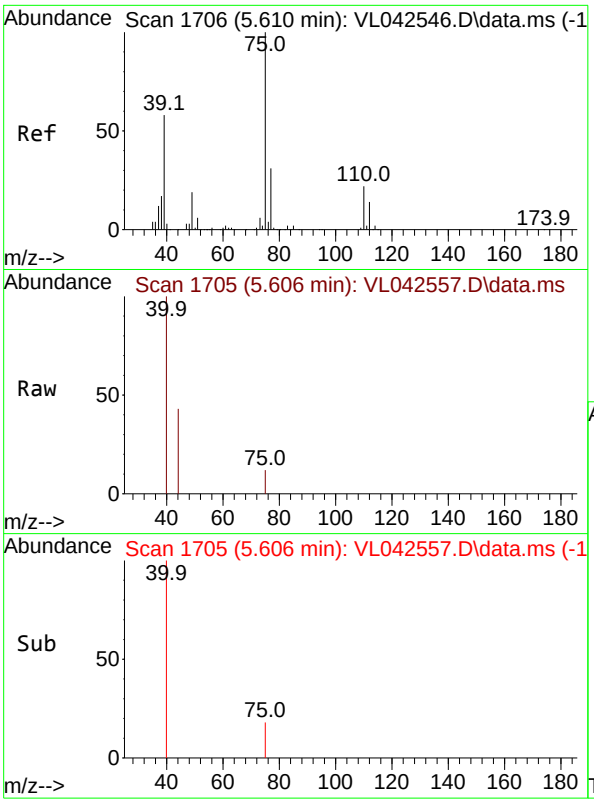




#42
Bromodichloromethane
Concen: 0.003 ppbv
RT: 4.192 min Scan# 1268
Delta R.T. -0.304 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 83 Resp: 81

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 0.0 | 50.4 | 75.6# |
| 127 | 0.0 | 6.5 | 9.7# |



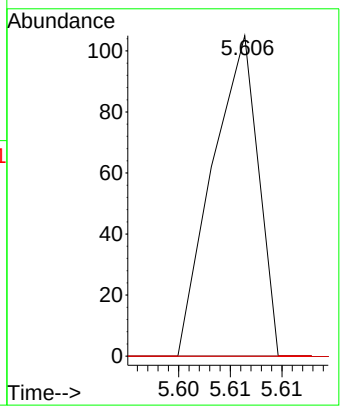


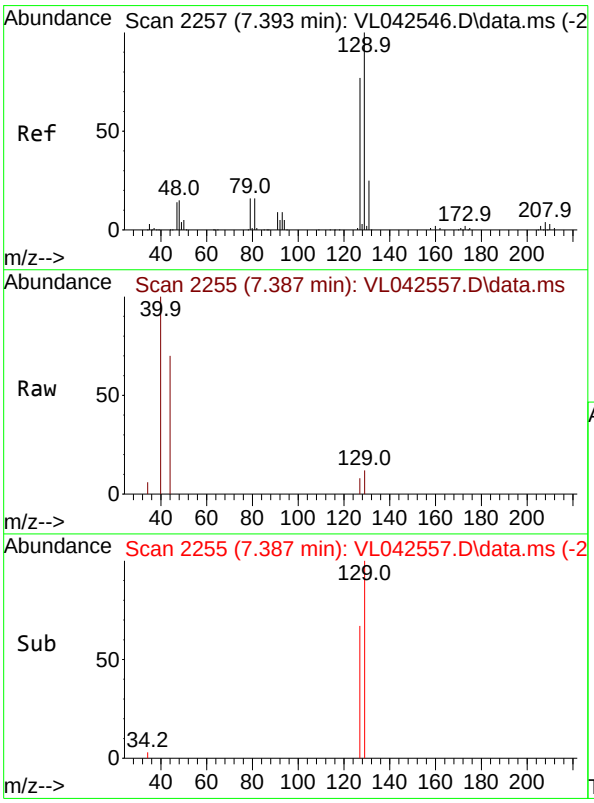

#46
cis-1,3-Dichloropropene
Concen: 0.002 ppbv
RT: 5.606 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 75 Resp: 32

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 39 | 0.0 | 46.3 | 69.5# |
| 77 | 0.0 | 25.0 | 37.6# |

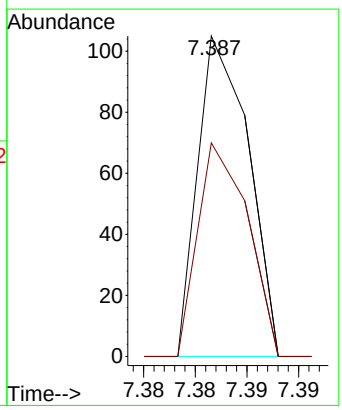


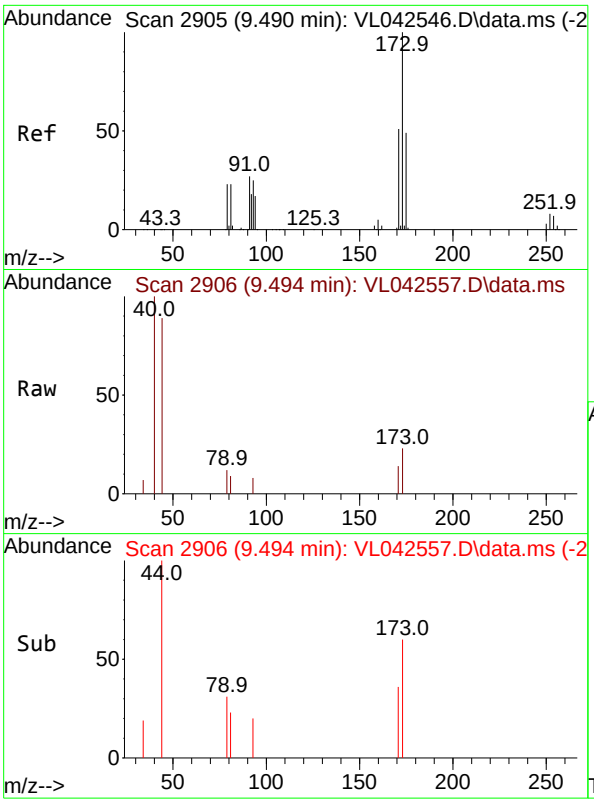




#48
Dibromochloromethane
Concen: 0.002 ppbv
RT: 7.387 min Scan# 2255
Delta R.T. -0.006 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:129 Resp: 36

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 130.6 | 39.0 | 117.0# |



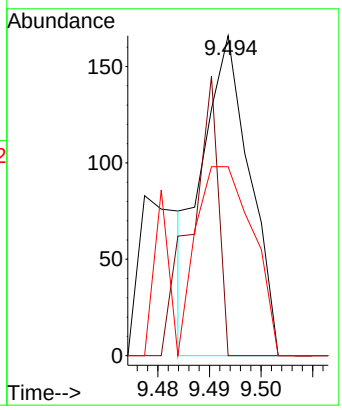


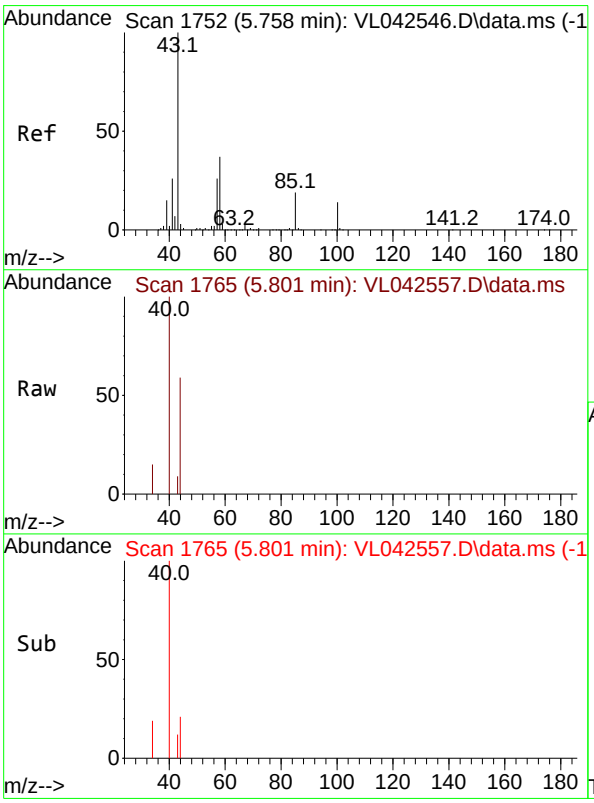

#49
Bromoform
Concen: 0.006 ppbv
RT: 9.494 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:173 Resp: 106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 39.2 | 58.8 |
| 171 | 86.8 | 41.9 | 62.9# |

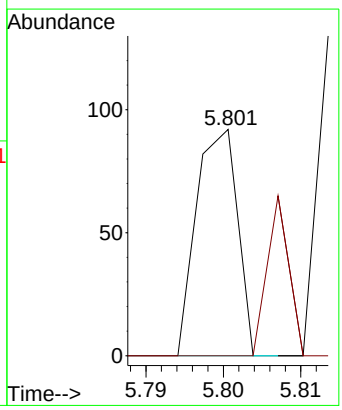


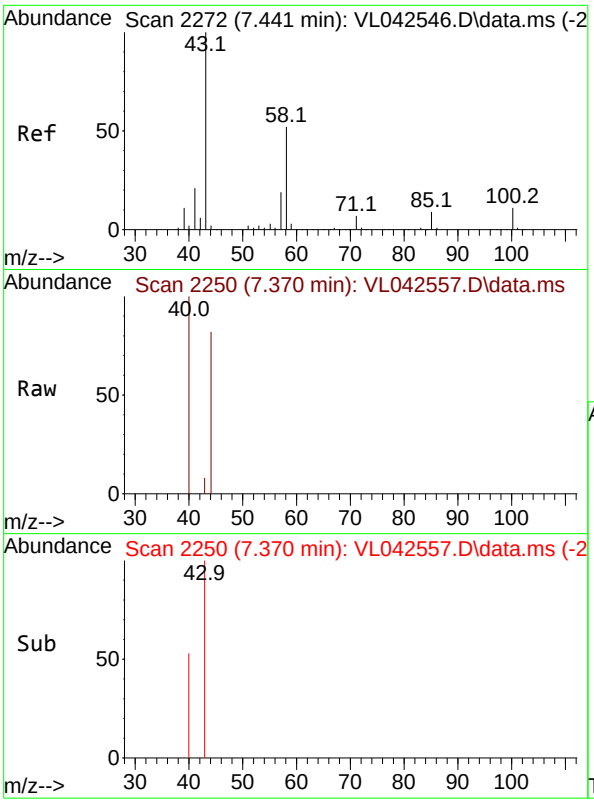




#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 5.801 min Scan# 1765
Delta R.T. 0.042 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 43 Resp: 34

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 30.0 | 45.0# |



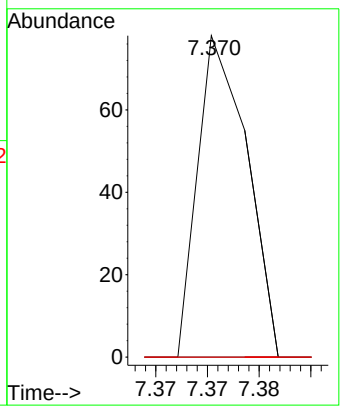


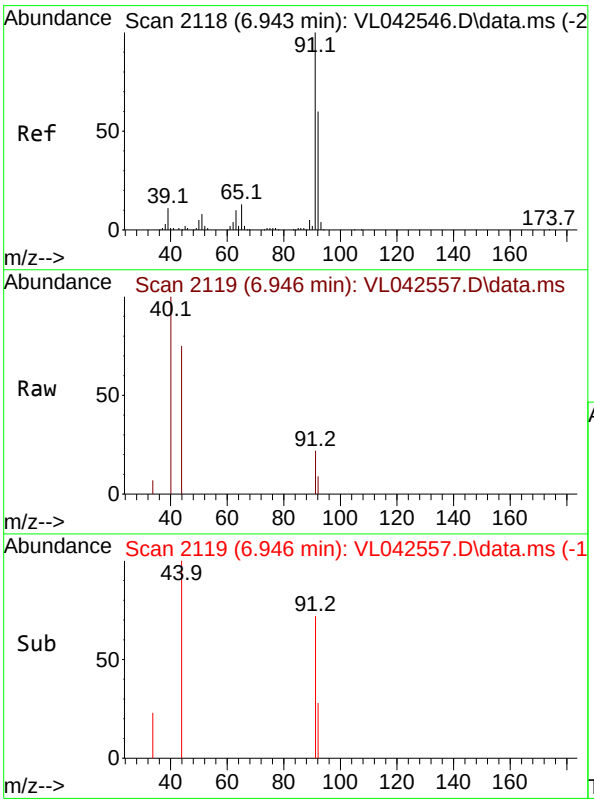

#51
2-Hexanone
Concen: 0.001 ppbv
RT: 7.370 min Scan# 2
Delta R.T. -0.071 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 43 Resp: 26

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 41.4 | 62.2# |
| 98 | 0.0 | 0.4 | 0.6# |

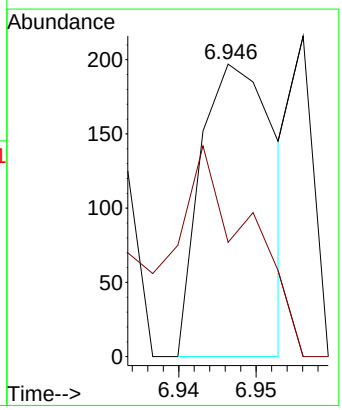


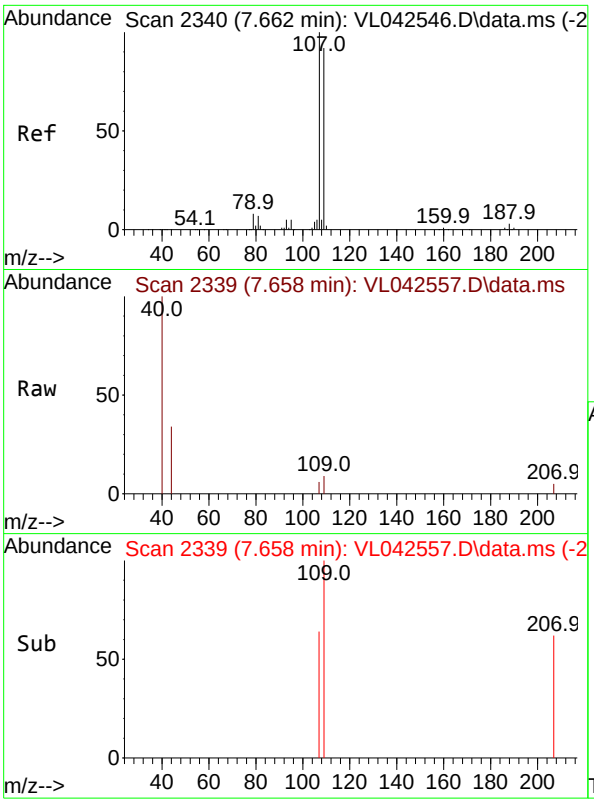




#53
Toluene
Concen: 0.004 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 91 Resp: 132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 0.0 | 47.8 | 71.8# |



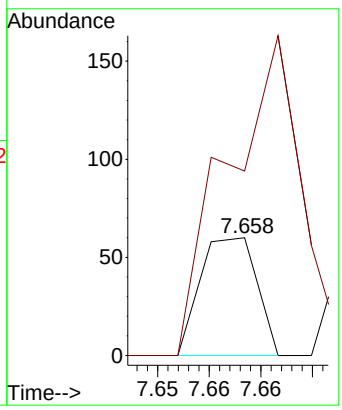


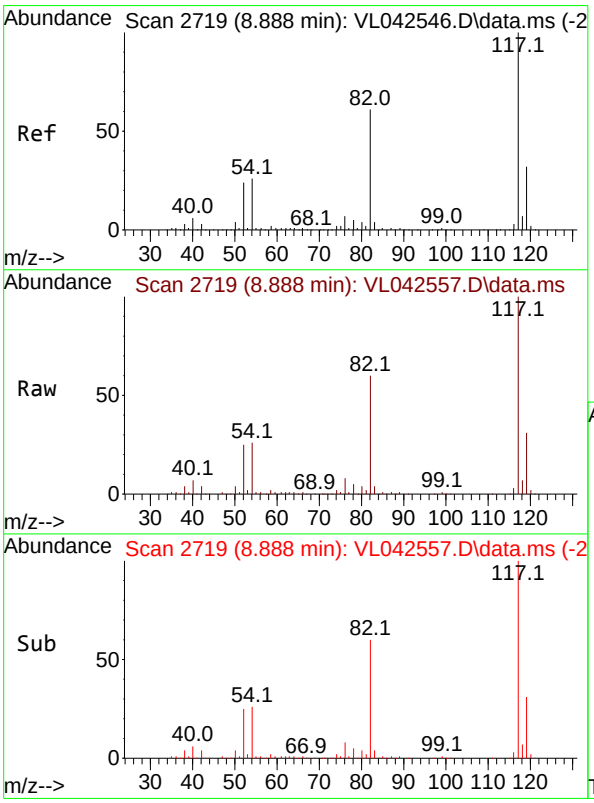

#54
1,2-Dibromoethane
Concen: 0.001 ppbv
RT: 7.658 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:107 Resp: 23

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 156.7 | 73.4 | 110.2# |

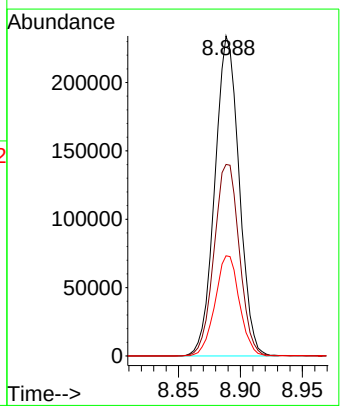


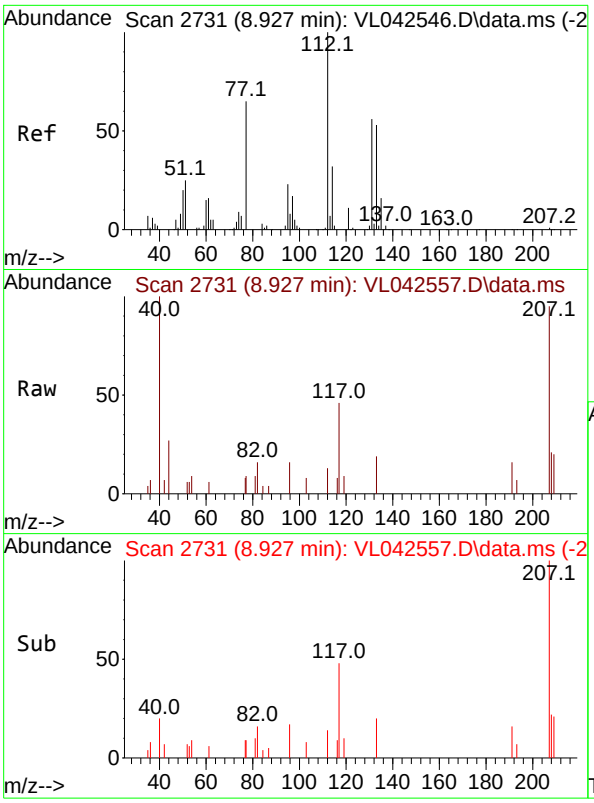




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:117 Resp: 319806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.4 | 51.0 | 76.4 |
| 119 | 31.6 | 27.0 | 40.4 |



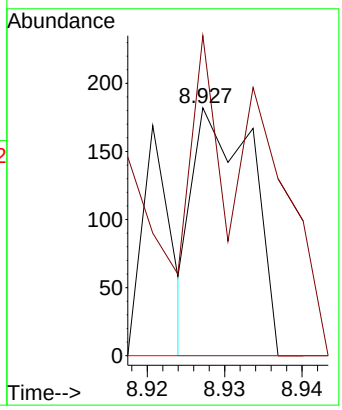


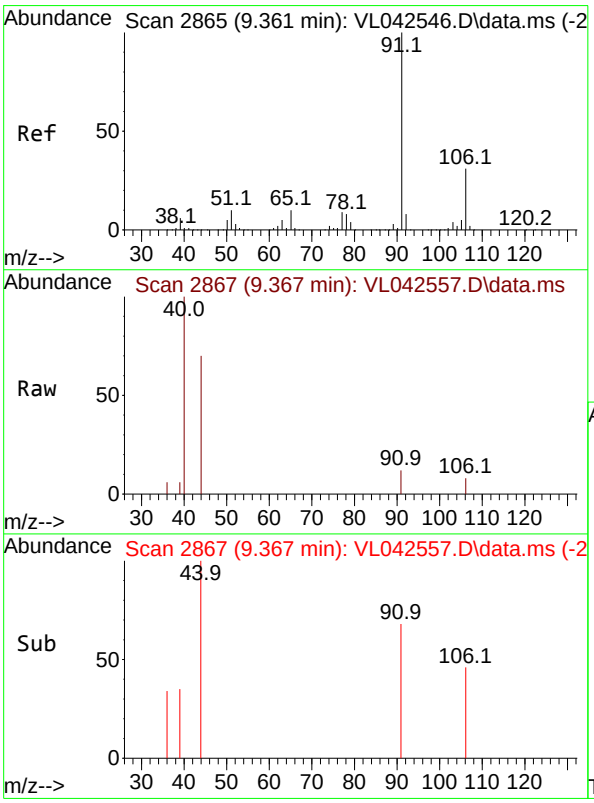

#57
Chlorobenzene
Concen: 0.003 ppbv
RT: 8.927 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:112 Resp: 95

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 96.2 | 53.2 | 79.8# |
| 114 | 0.0 | 28.4 | 34.8# |

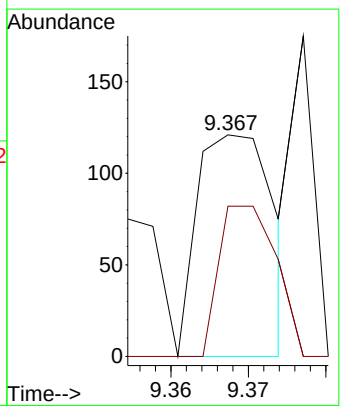


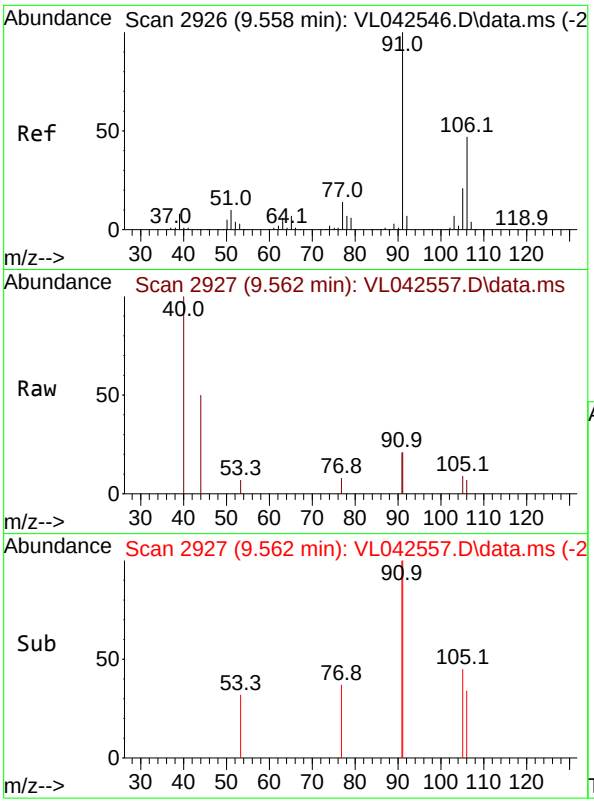




#58
Ethyl Benzene
Concen: 0.002 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.007 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 91 Resp: 83

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 67.8 | 24.6 | 37.0# |



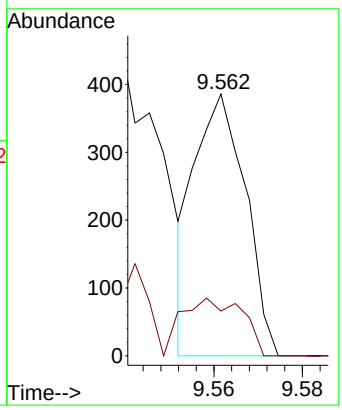


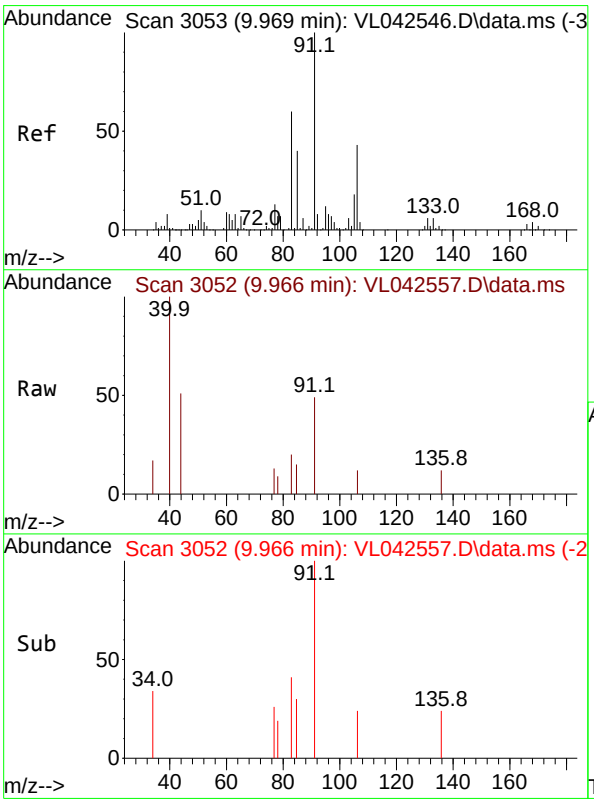

#59
m/p-Xylene
Concen: 0.009 ppbv
RT: 9.562 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 91 Resp: 309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 37.1 | 55.7# |

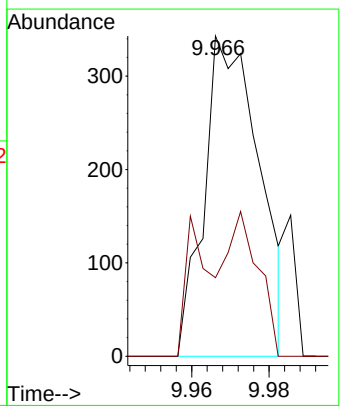


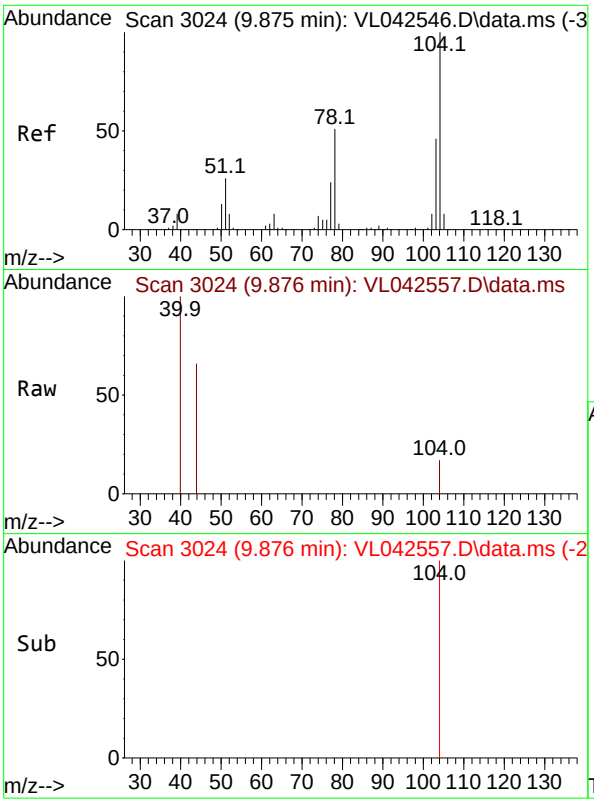




#60
o-Xylene
Concen: 0.010 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 91 Resp: 337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.8 | 21.6 | 64.8 |



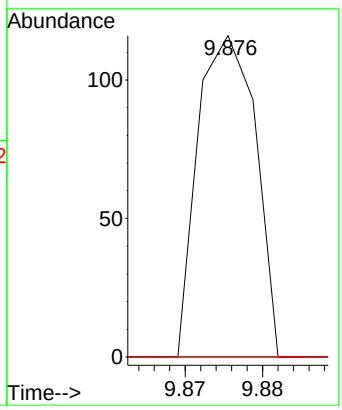


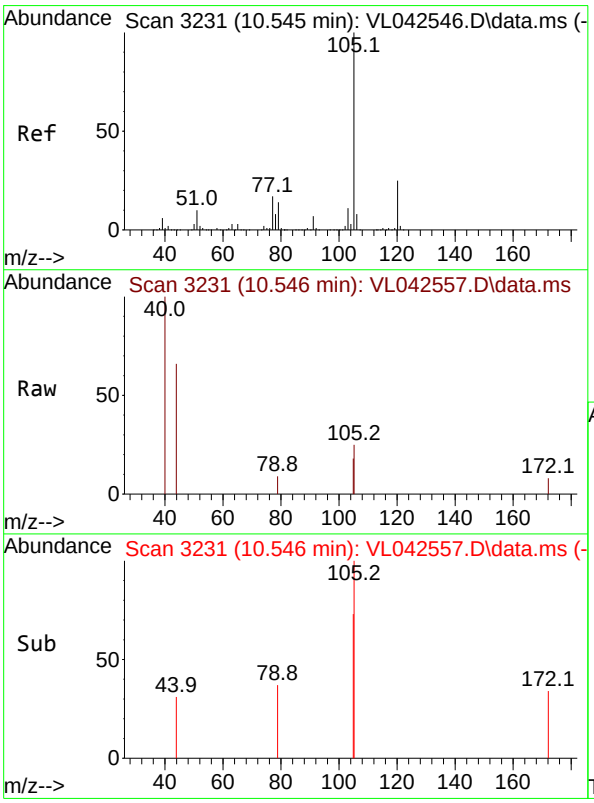

#61
Styrene
Concen: 0.004 ppbv
RT: 9.876 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:104 Resp: 60

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 56.7 | 39.2 | 58.8 |
| 103 | 0.0 | 37.1 | 55.7# |

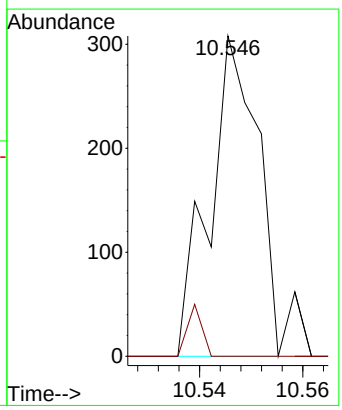


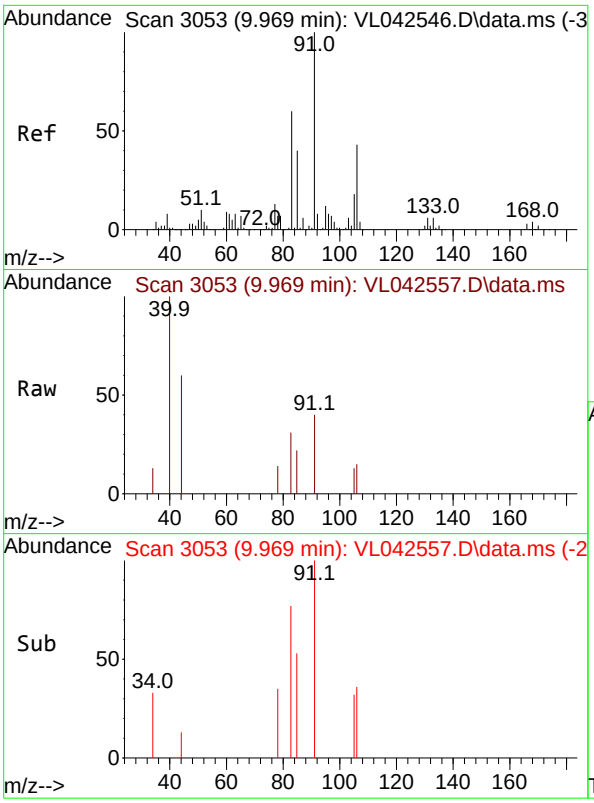




#62
Isopropylbenzene
Concen: 0.004 ppbv
RT: 10.546 min Scan# 3231
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:105 Resp: 198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 20.0 | 30.0# |



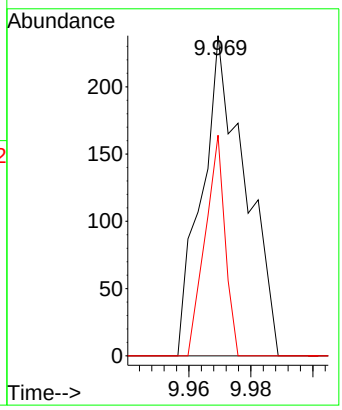


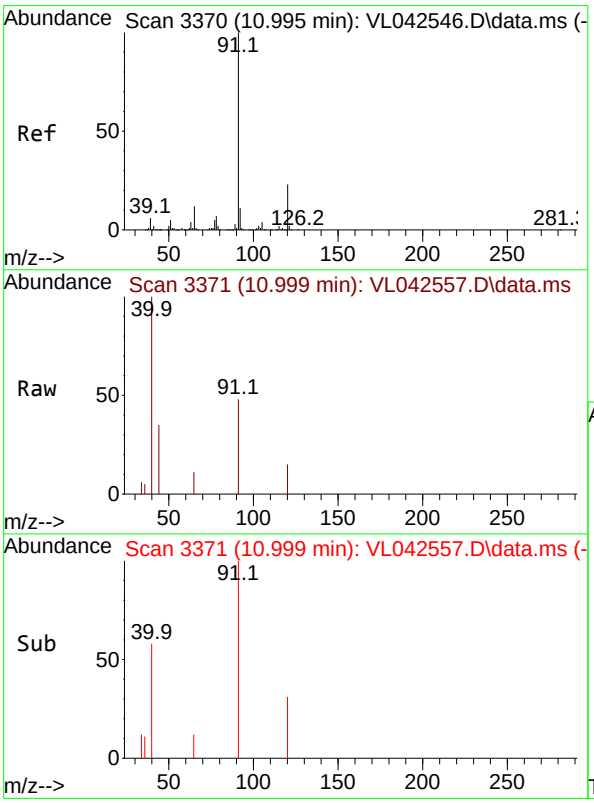

#63
1,1,2,2-Tetrachloroethane
Concen: 0.010 ppbv
RT: 9.969 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 83 Resp: 231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 5.1 | 15.3# |
| 85 | 31.6 | 32.5 | 97.4# |

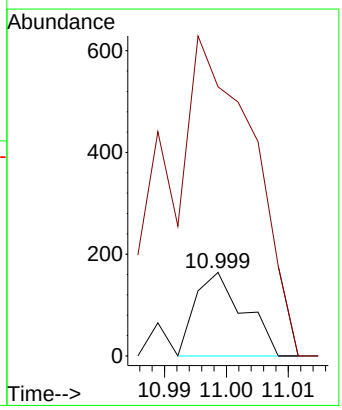


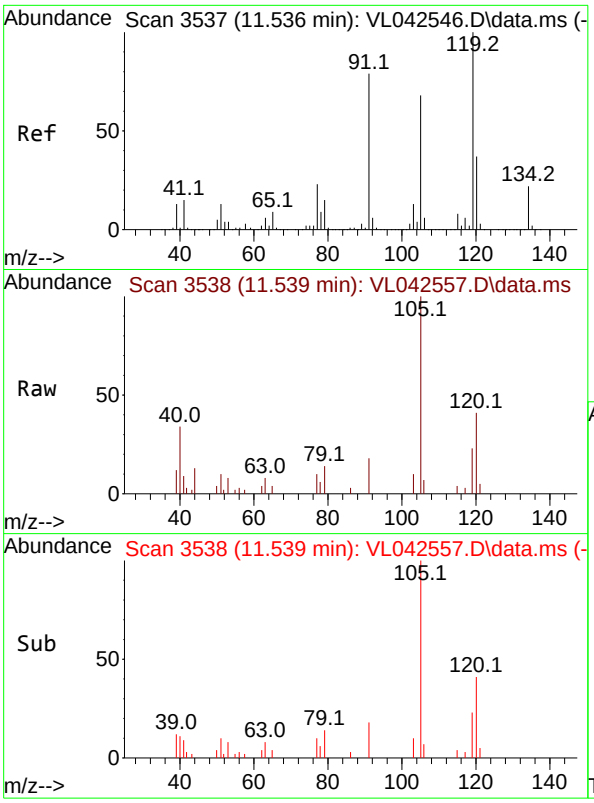




#64
n-propylbenzene
Concen: 0.007 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:120 Resp: 90

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 726.7 | 367.0 | 550.4# |



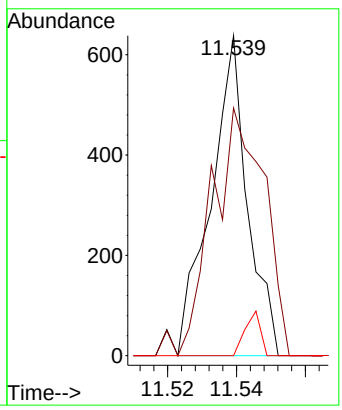


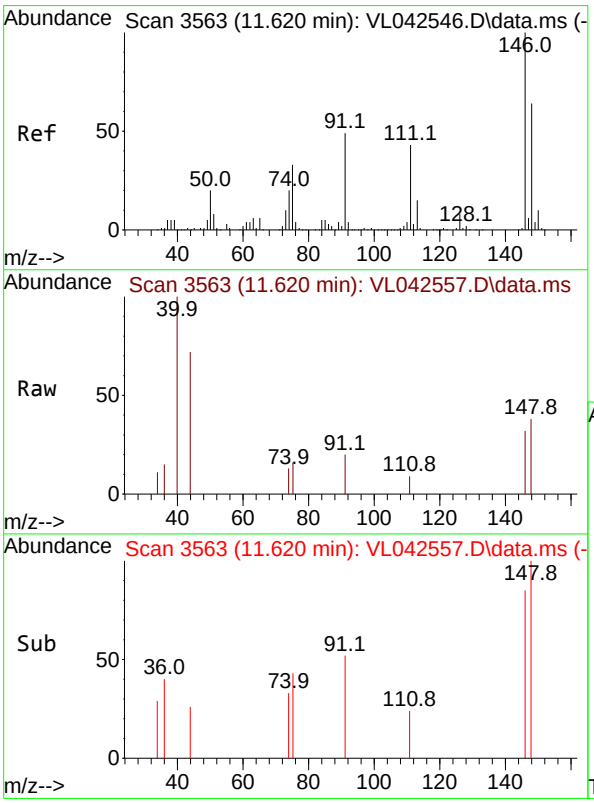

#65
tert-Butylbenzene
Concen: 0.010 ppbv
RT: 11.539 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:119 Resp: 473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 111.4 | 62.7 | 94.1# |
| 134 | 5.7 | 16.8 | 25.2# |

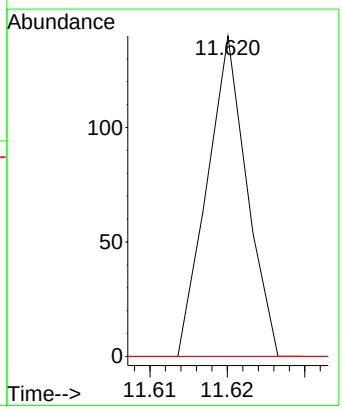


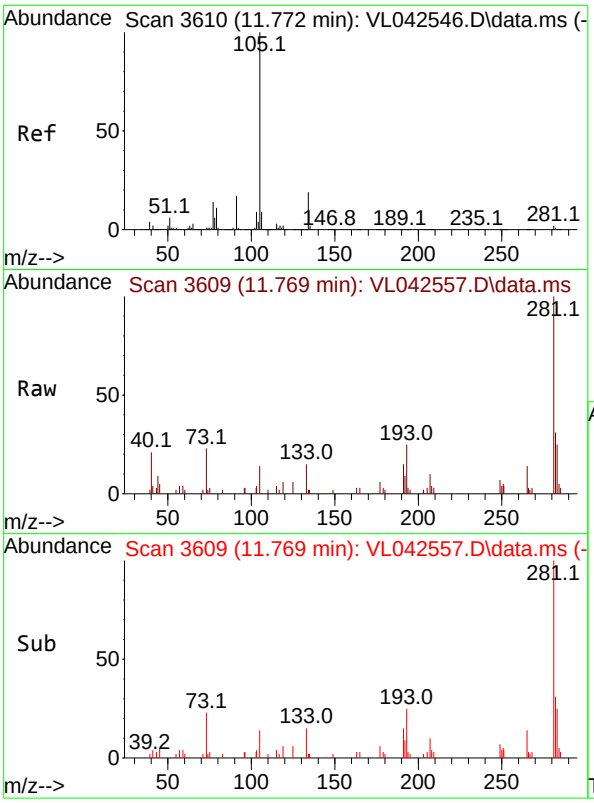




#66
Benzyl Chloride
Concen: 0.008 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 91 Resp: 50

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 14.2 | 21.2# |
| 128 | 0.0 | 4.6 | 6.8# |



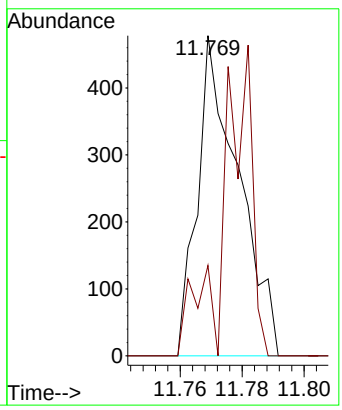


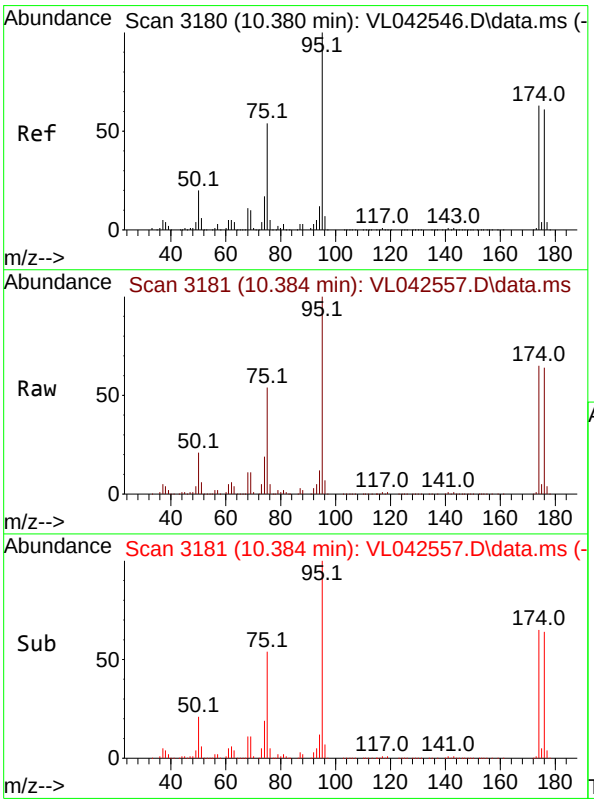

#67
sec-Butylbenzene
Concen: 0.006 ppbv
RT: 11.769 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:105 Resp: 438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 68.7 | 15.4 | 23.2# |

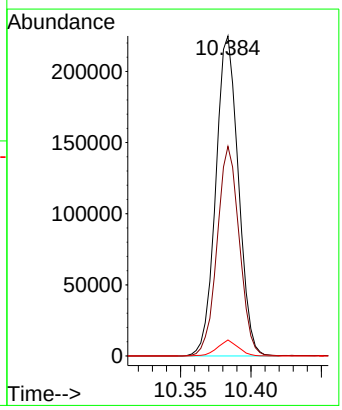


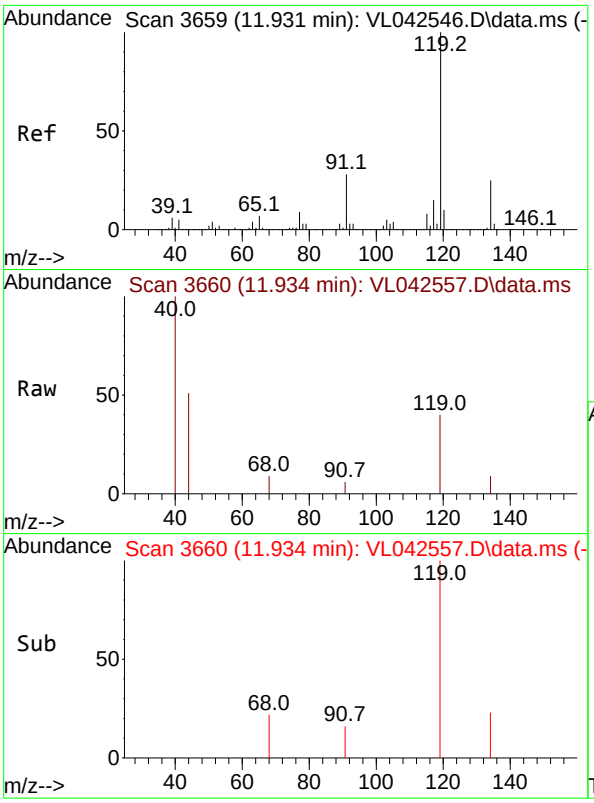




#68
1-Bromo-4-Fluorobenzene
Concen: 9.824 ppbv
RT: 10.384 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 95 Resp: 251444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.6 | 52.0 | 78.0 |
| 175 | 4.6 | 3.8 | 5.6 |



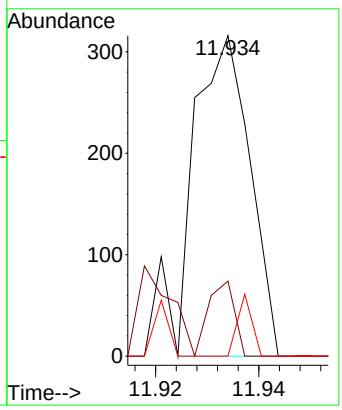


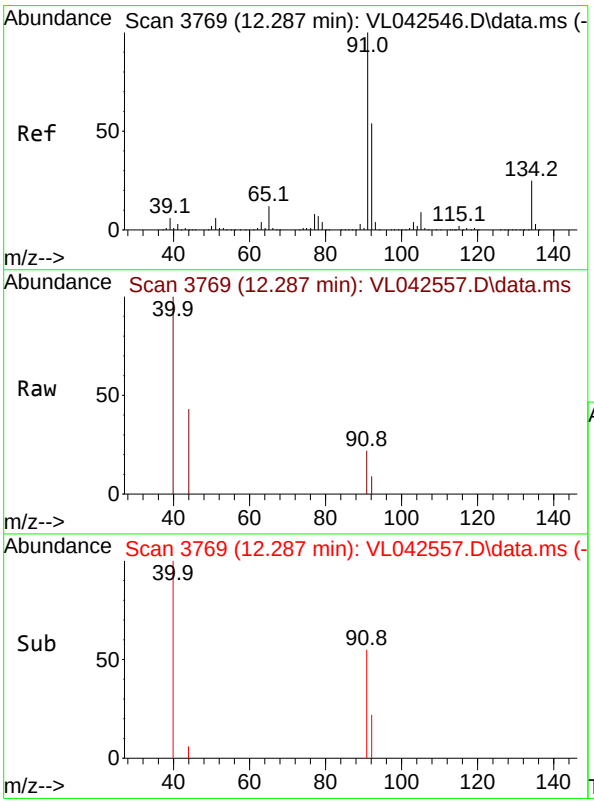

#69
p-Isopropyltoluene
Concen: 0.004 ppbv
RT: 11.934 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:119 Resp: 230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 0.0 | 20.1 | 30.1# |
| 91 | 10.0 | 22.3 | 33.5# |

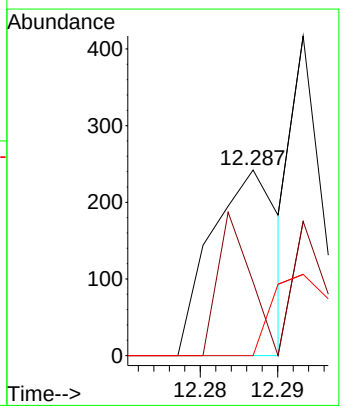


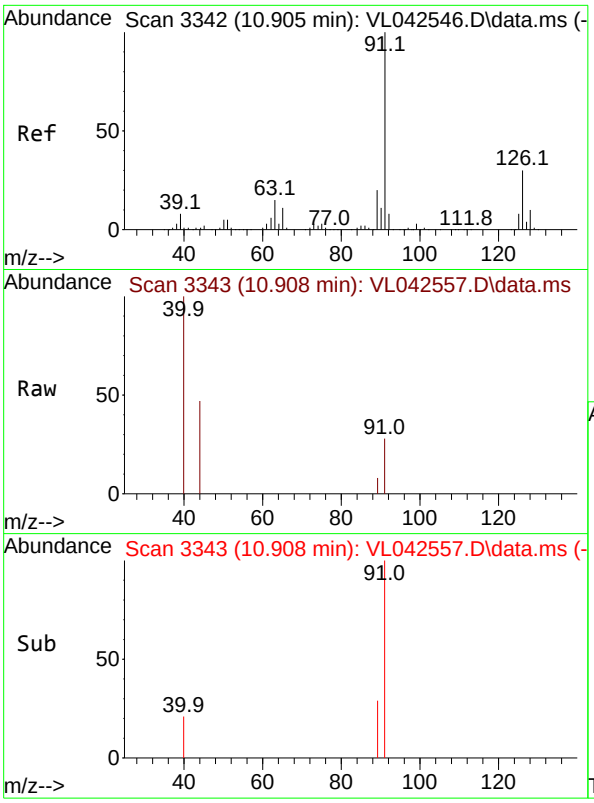




#70
n-Butylbenzene
Concen: 0.003 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion: 91 Resp: 148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 82.4 | 43.8 | 65.6# |
| 134 | 0.0 | 19.7 | 29.5# |



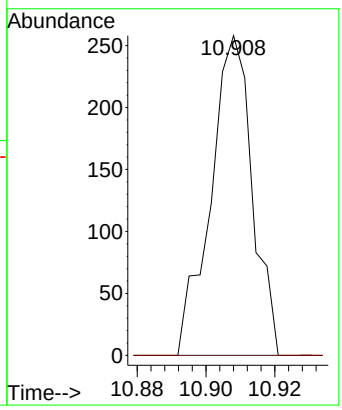


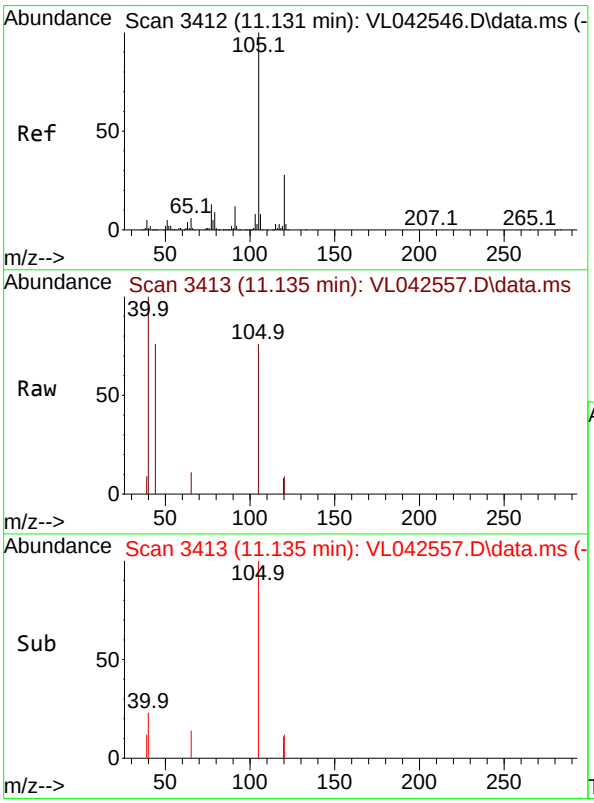

#71
2-Chlorotoluene
Concen: 0.006 ppbv
RT: 10.908 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion: 91 Resp: 217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 12.4 | 49.4# |

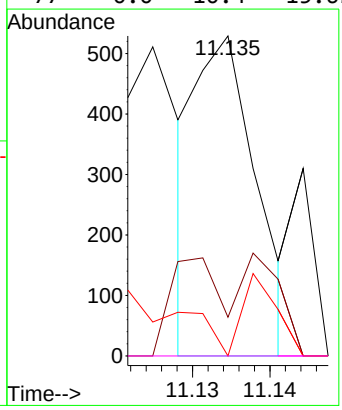


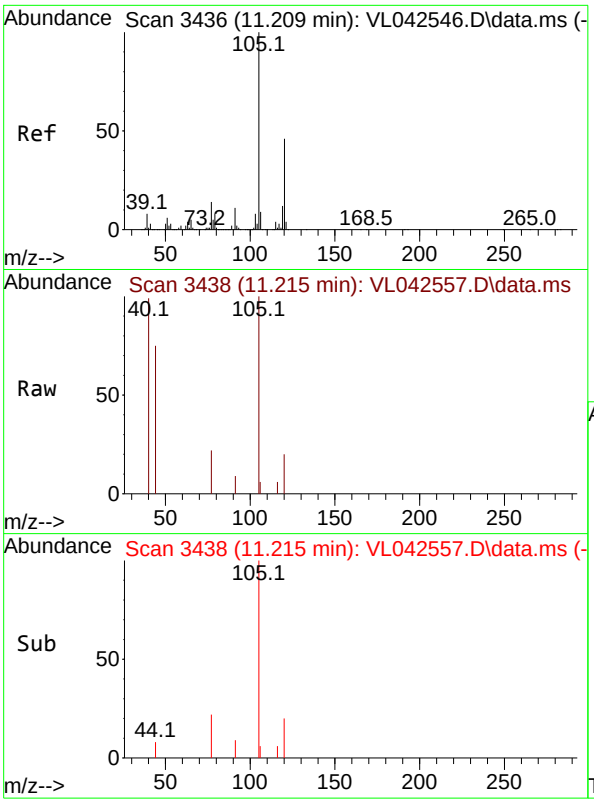




#72
4-Ethyltoluene
Concen: 0.007 ppbv
RT: 11.135 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:105 Resp: 285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.4 | 35.0# |
| 91 | 35.4 | 10.2 | 15.4# |
| 77 | 0.0 | 10.4 | 15.6# |



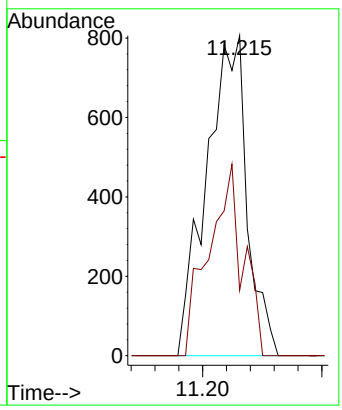


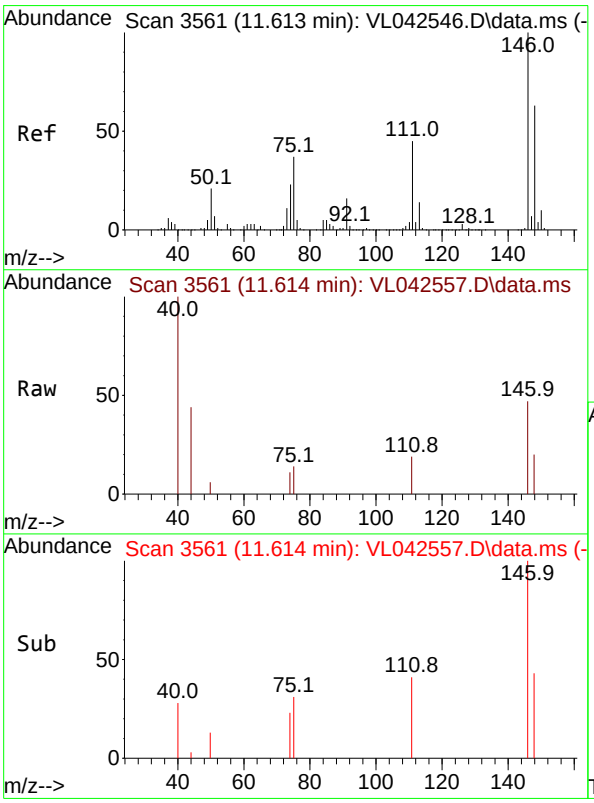

#73
1,3,5-Trimethylbenzene
Concen: 0.025 ppbv
RT: 11.215 min Scan# 34
Delta R.T. 0.007 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:105 Resp: 953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 20.5 | 36.5 | 54.7# |

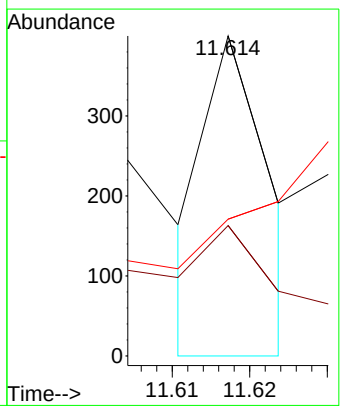


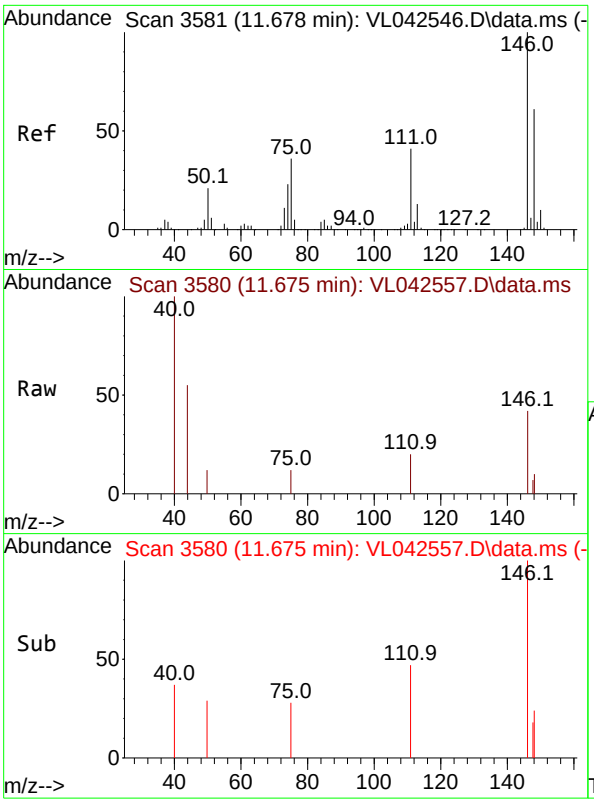




#75
1,3-Dichlorobenzene
Concen: 0.004 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:146 Resp: 115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 101.7 | 22.8 | 68.4# |
| 148 | 0.0 | 31.6 | 94.8# |



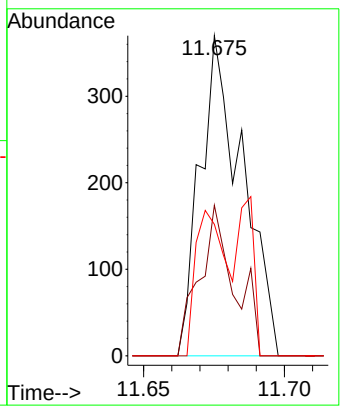


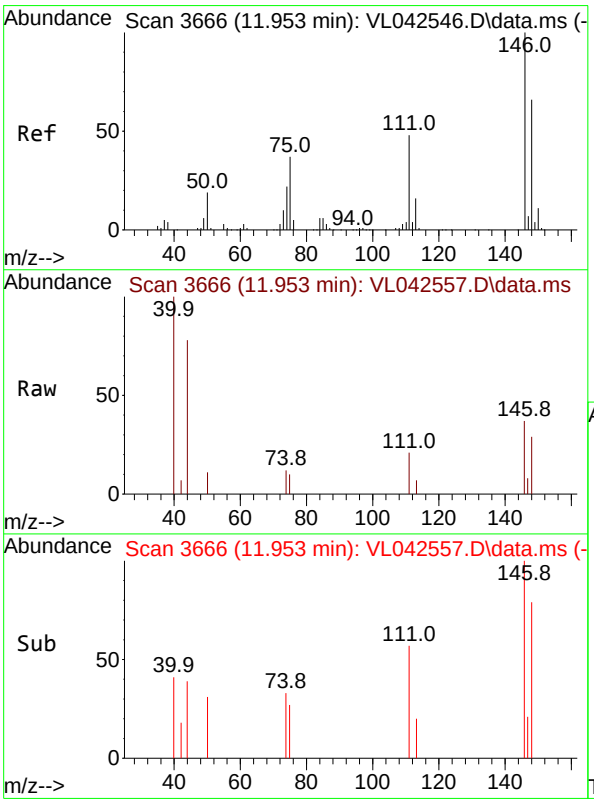

#76
1,4-Dichlorobenzene
Concen: 0.014 ppbv
RT: 11.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:146 Resp: 386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 21.8 | 65.3 |
| 148 | 50.8 | 31.4 | 94.3 |

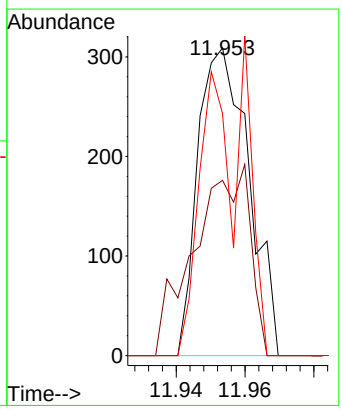


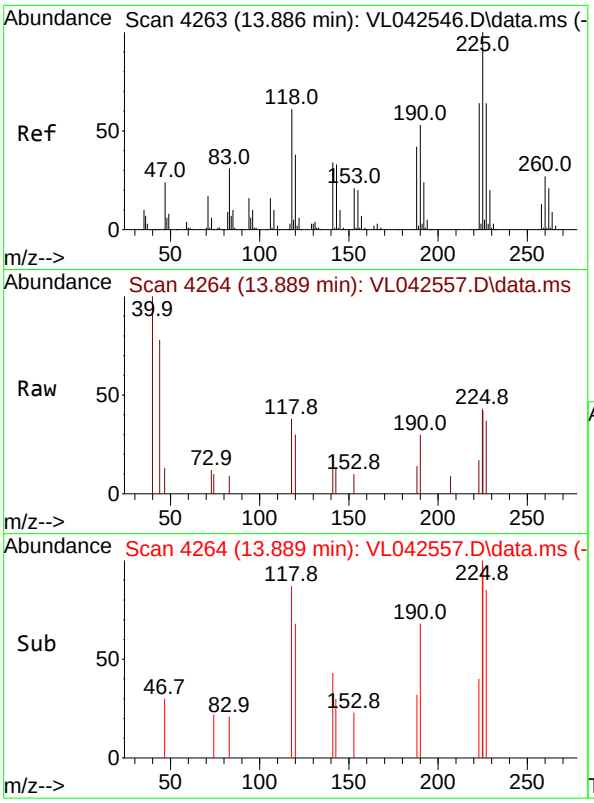




#77
1,2-Dichlorobenzene
Concen: 0.011 ppbv
RT: 11.953 min Scan# 3666
Delta R.T. 0.000 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:146 Resp: 317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 67.5 | 23.7 | 71.1 |
| 148 | 81.1 | 32.3 | 96.9 |



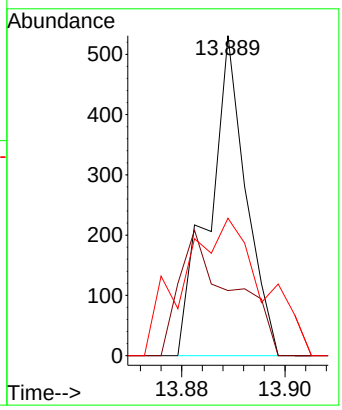


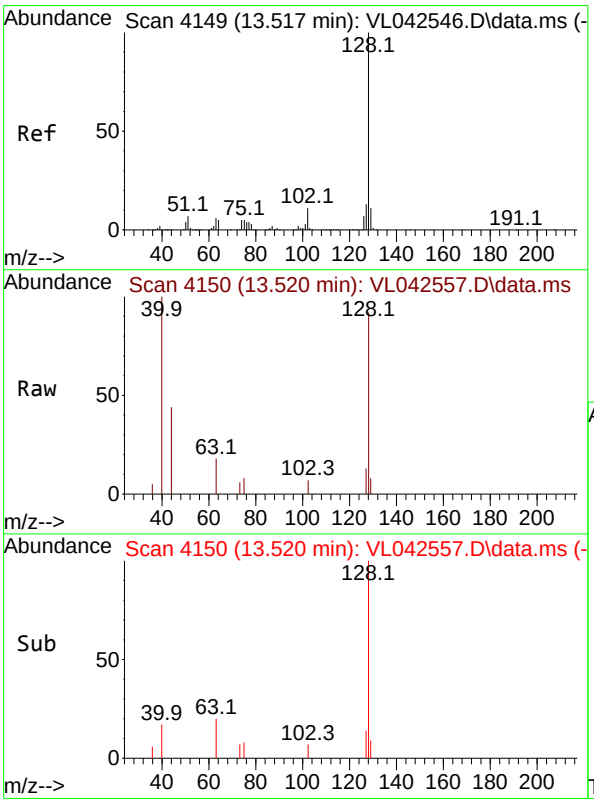

#78
Hexachloro-1,3-Butadiene
Concen: 0.011 ppbv
RT: 13.889 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

**Instrument :**
MSVOA_L
**ClientSampleId :**
VL0521ABL01

Tgt Ion:225 Resp: 263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 56.3 | 51.0 | 76.6 |
| 227 | 93.2 | 50.2 | 75.4# |




#79
Naphthalene
Concen: 0.027 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042557.D
Acq: 21 May 2025 09:28

Tgt Ion:128 Resp: 923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.9 | 10.5 | 15.7 |
| 129 | 8.6 | 9.0 | 13.4# |