Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041926.D
Acq On : 20 Jan 2025 18:42
Operator : SY/MD
Sample : Q1090-05
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

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

Quant Time: Jan 21 03:06:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 2.781 | 49 | 137146 | 10.000 | ppbv | | -0.02 |
| 33) 1,4-Difluorobenzene | 3.949 | 114 | 387237 | 10.000 | ppbv | | -0.03 |
| 55) Chlorobenzene-d5 | 8.869 | 117 | 334961 | 10.000 | ppbv | | -0.03 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 10.367 | 95 | 263580 | 9.991 | ppbv | | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 99.900% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.496 | 85 | 7946 | 0.425 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 1.473 | 51 | 8842 | 0.452 | ppbv | # | 87 |
| 4) Chloromethane | 1.528 | 50 | 4029 | 0.573 | ppbv | | 96 |
| 6) Bromomethane | 1.667 | 94 | 107 | 0.032 | ppbv | # | 6 |
| 9) Propene | 1.483 | 41 | 4937 | 0.612 | ppbv | | 87 |
| 11) Trichlorofluoromethane | 1.871 | 101 | 4219 | 0.217 | ppbv | # | 82 |
| 12) 1,1,2-Trichlorotrifluo... | 2.133 | 101 | 977 | 0.064 | ppbv | | 88 |
| 13) Ethanol | 1.716 | 45 | 12774 | 21.632 | ppbv | | 84 |
| 15) Acetone | 1.832 | 43 | 52519 | 3.188 | ppbv | | 96 |
| 16) 1,3-Butadiene | 1.596 | 39 | 683 | 0.092 | ppbv | | 88 |
| 19) Isopropyl Alcohol | 1.884 | 45 | 6643 | 0.680 | ppbv | # | 1 |
| 20) Methylene Chloride | 2.056 | 84 | 1937 | 0.298 | ppbv | | 87 |
| 23) Vinyl Acetate | 2.450 | 43 | 1304 | 0.160 | ppbv | # | 91 |
| 26) Hexane | 2.816 | 57 | 1697 | 0.097 | ppbv | # | 5 |
| 34) 2-Butanone | 2.557 | 43 | 4619 | 0.188 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 3.752 | 117 | 908 | 0.037 | ppbv | # | 77 |
| 36) Benzene | 3.648 | 78 | 6494 | 0.183 | ppbv | # | 79 |
| 39) 1,2-Dichloropropane | 3.946 | 63 | 96107 | 7.714 | ppbv | # | 21 |
| 53) Toluene | 6.914 | 91 | 3889 | 0.101 | ppbv | # | 47 |
| 59) m/p-Xylene | 9.532 | 91 | 1683 | 0.040 | ppbv | # | 31 |
| 74) 1,2,4-Trimethylbenzene | 11.523 | 105 | 1506 | 0.032 | ppbv | # | 43 |

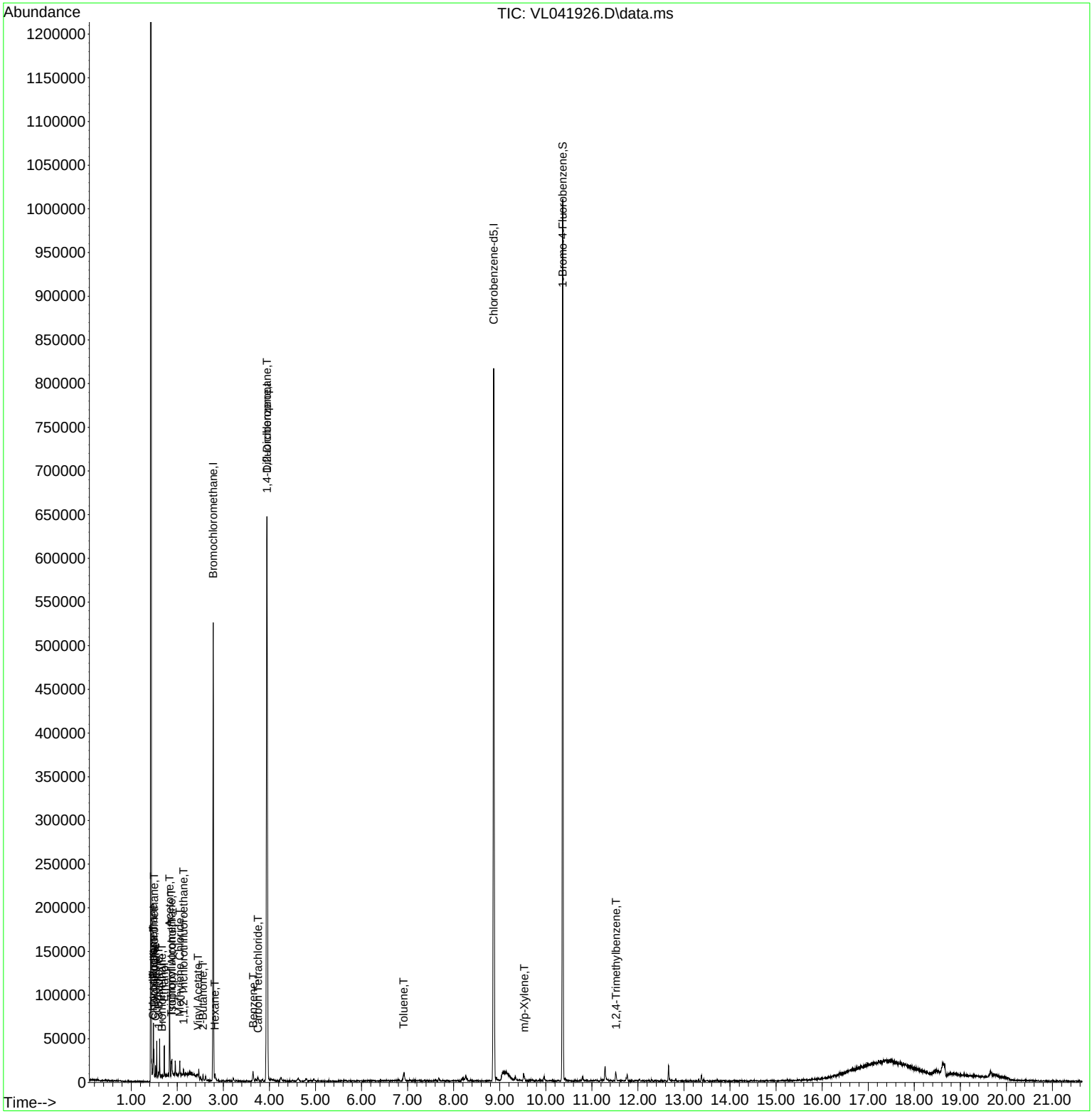
(#) = qualifier out of range (m) = manual integration (+) = signals summed

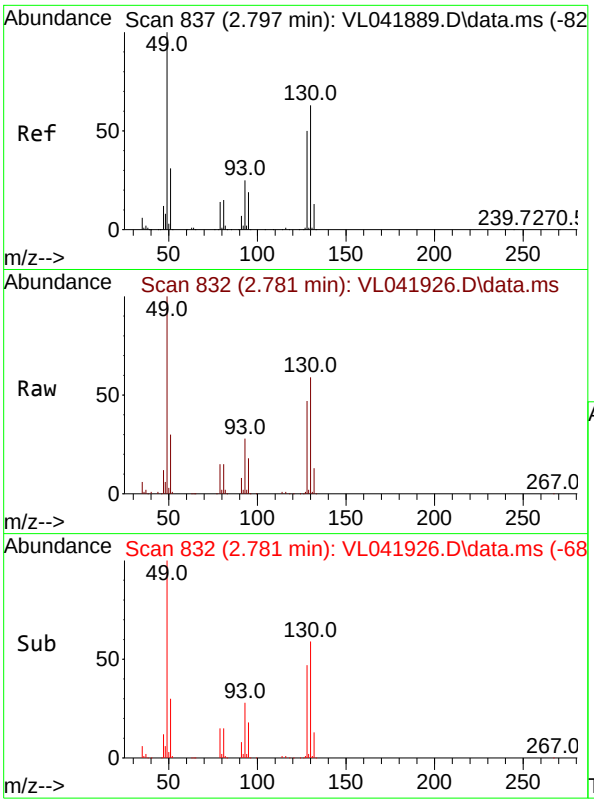
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041926.D
Acq On : 20 Jan 2025 18:42
Operator : SY/MD
Sample : Q1090-05
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

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

Quant Time: Jan 21 03:06:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



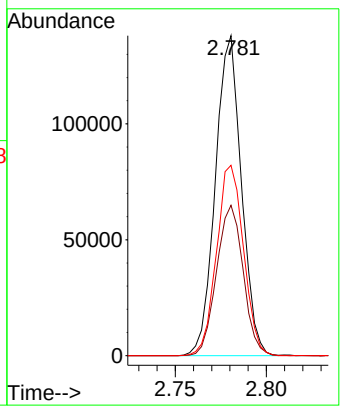


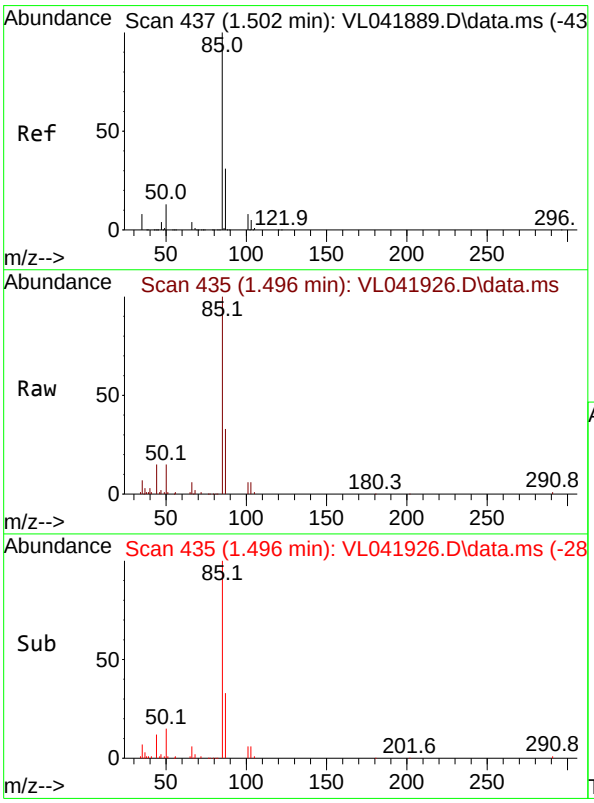

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.016 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 49 Resp: 137146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 48.0 | 24.3 | 73.0 |
| 130 | 61.7 | 31.1 | 93.2 |

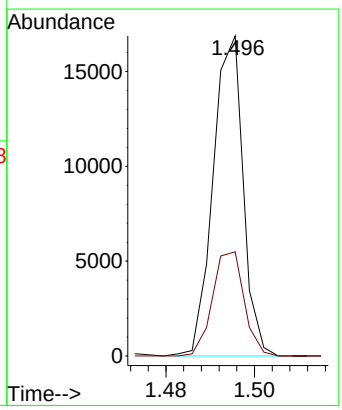


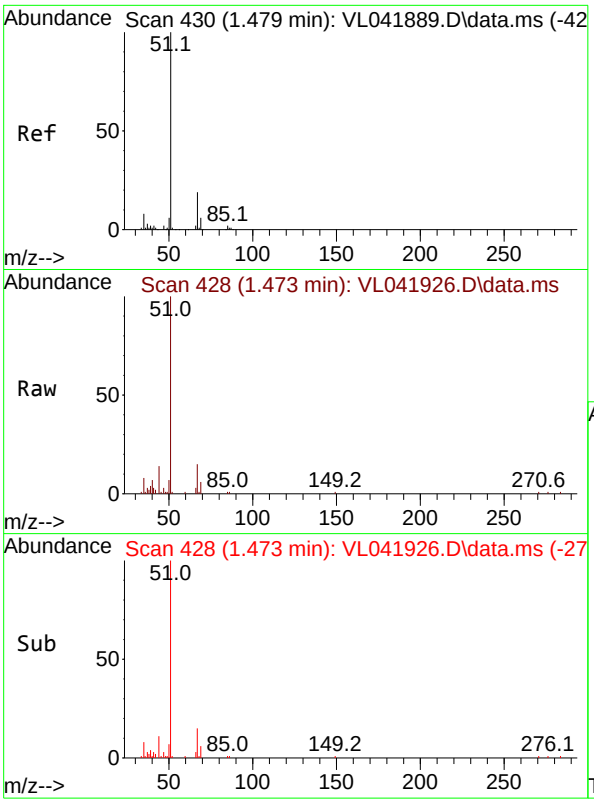




#2
Dichlorodifluoromethane
Concen: 0.425 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 85 Resp: 7946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 24.9 | 37.3 |



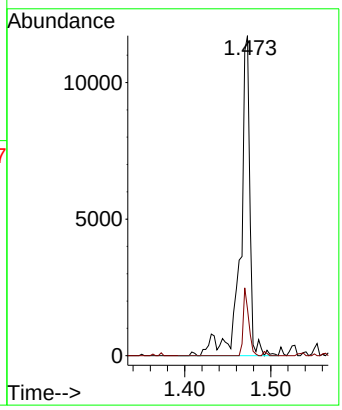


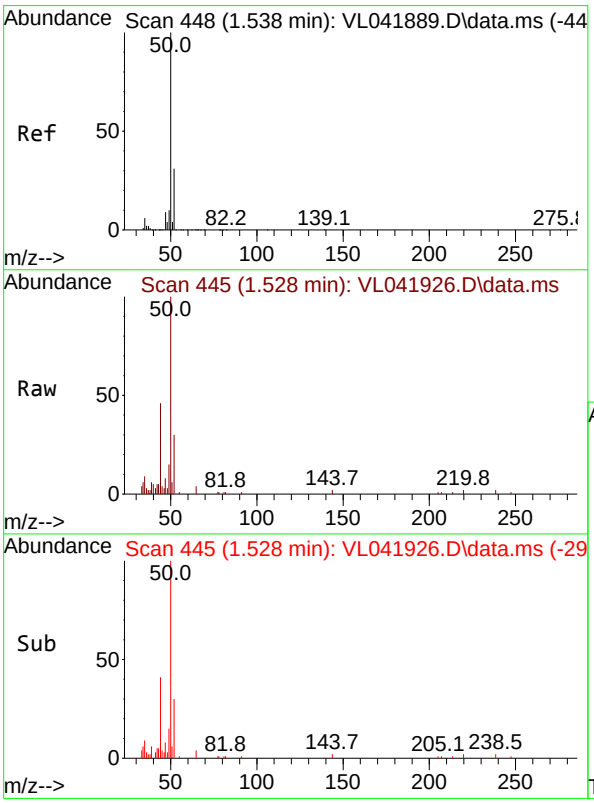

#3
Chlorodifluoromethane
Concen: 0.452 ppbv
RT: 1.473 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 51 Resp: 8842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 12.8 | 15.0 | 22.4# |

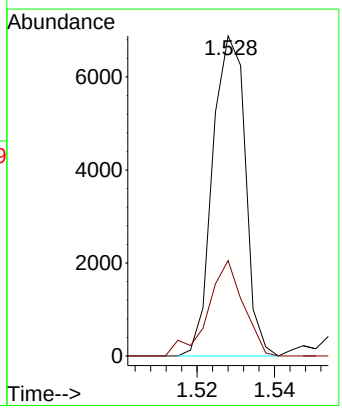


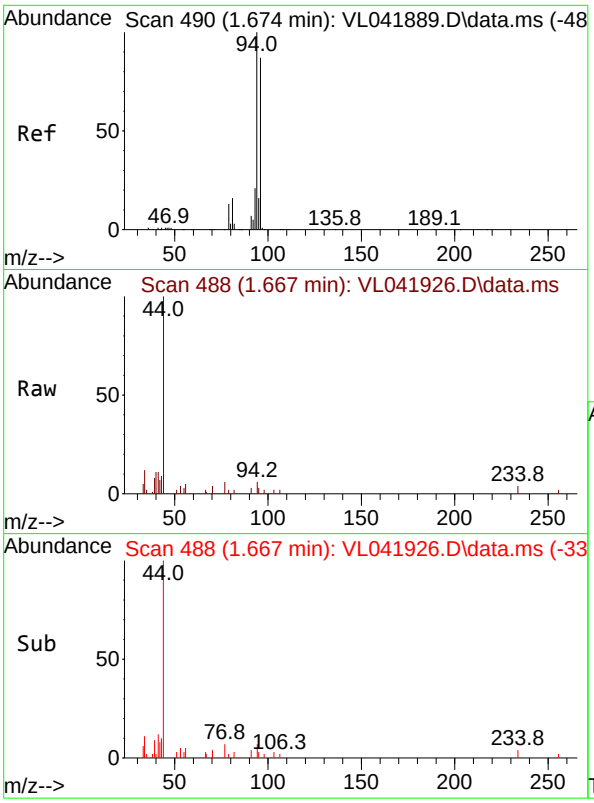




#4
Chloromethane
Concen: 0.573 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 50 Resp: 4029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.2 | 24.6 | 36.8 |



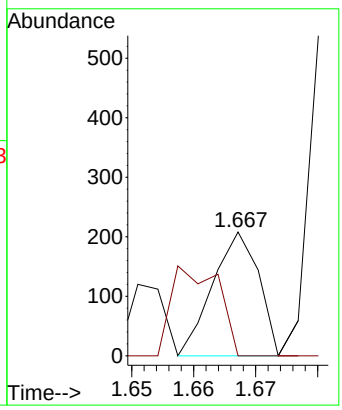


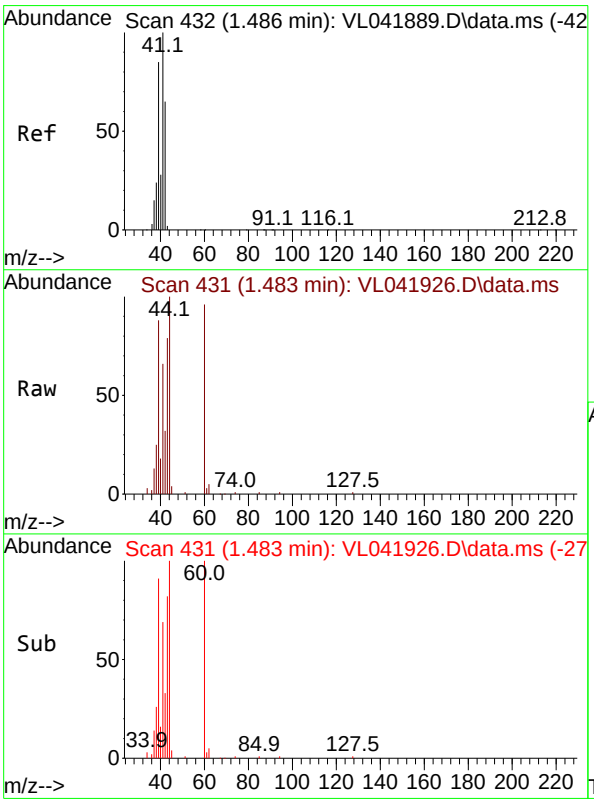

#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.667 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 94 Resp: 107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 69.5 | 104.3# |

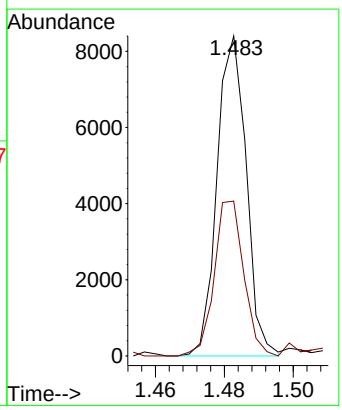


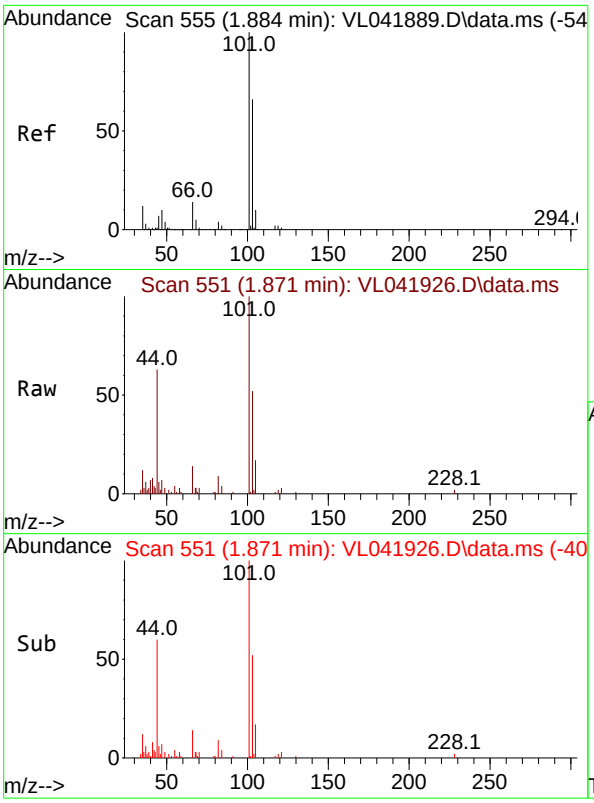




#9
Propene
Concen: 0.612 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 41 Resp: 4937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 54.8 | 52.0 | 78.0 |



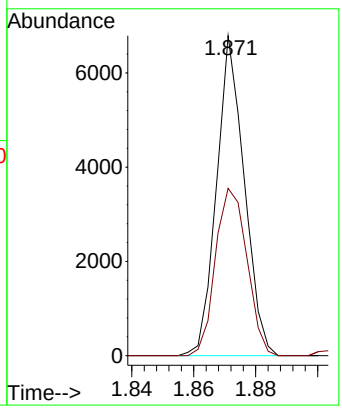


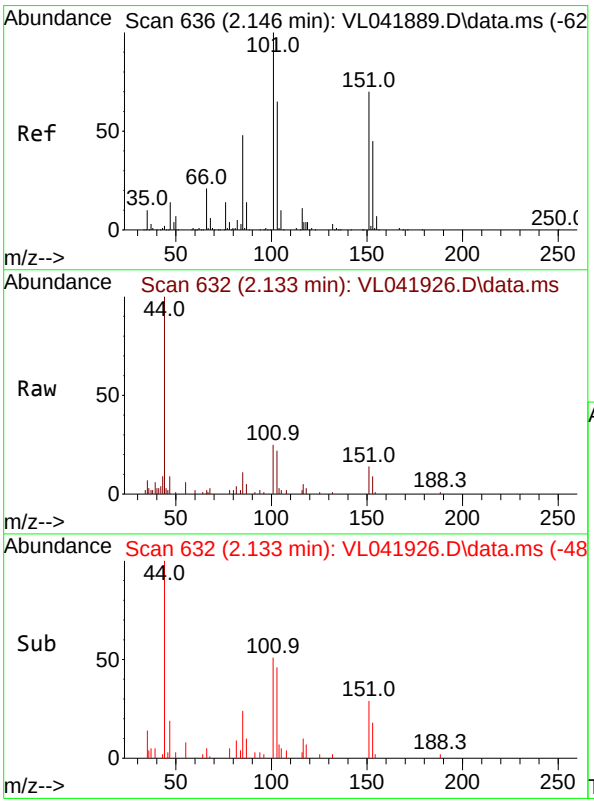

#11
Trichlorofluoromethane
Concen: 0.217 ppbv
RT: 1.871 min Scan# 5
Delta R.T. -0.013 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion:101 Resp: 4219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 52.3 | 53.1 | 79.7# |

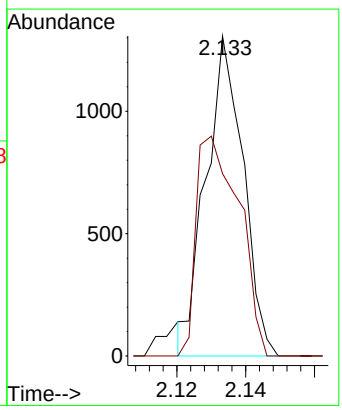


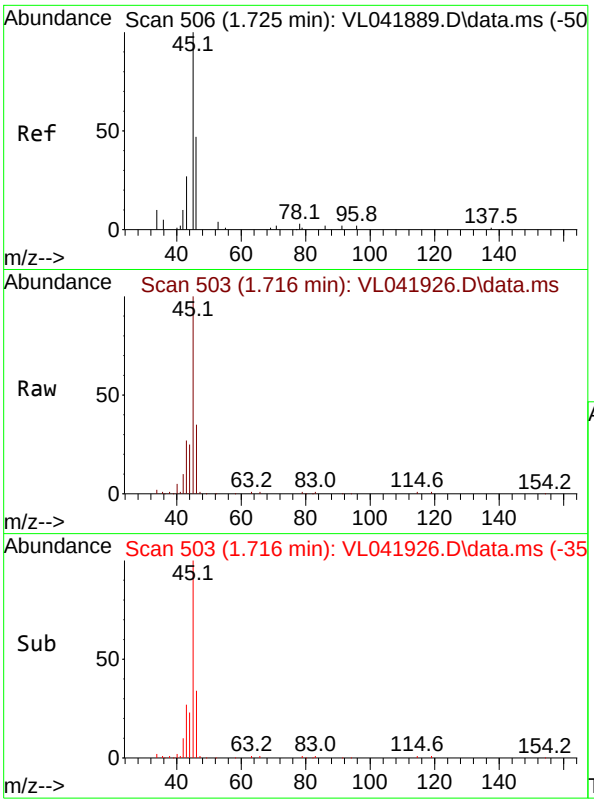




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.064 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.013 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion:101 Resp: 977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 79.6 | 56.1 | 84.1 |



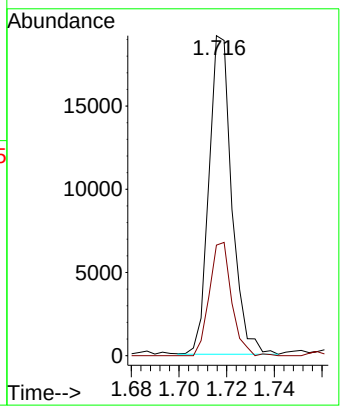


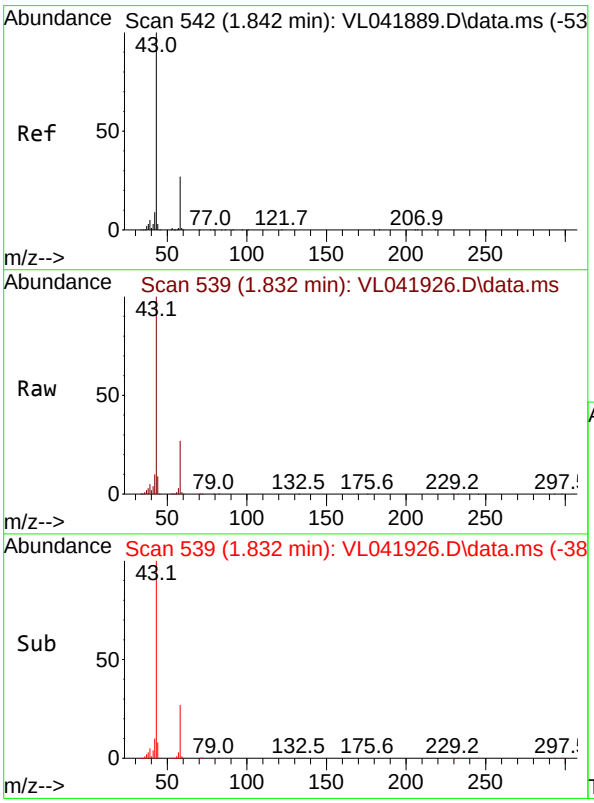

#13
Ethanol
Concen: 21.632 ppbv
RT: 1.716 min Scan# 5
Delta R.T. -0.010 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 45 Resp: 12774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 34.6 | 18.1 | 72.5 |

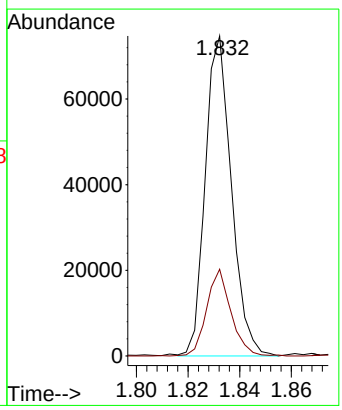


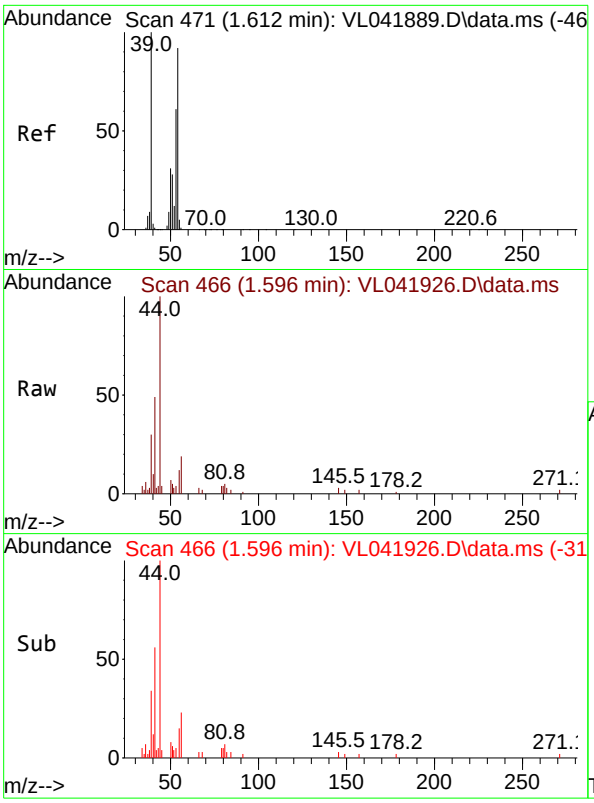




#15
Acetone
Concen: 3.188 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 43 Resp: 52519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.4 | 21.9 | 32.9 |



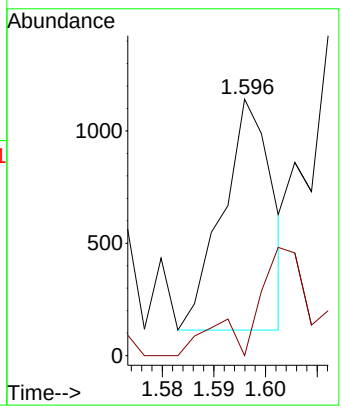


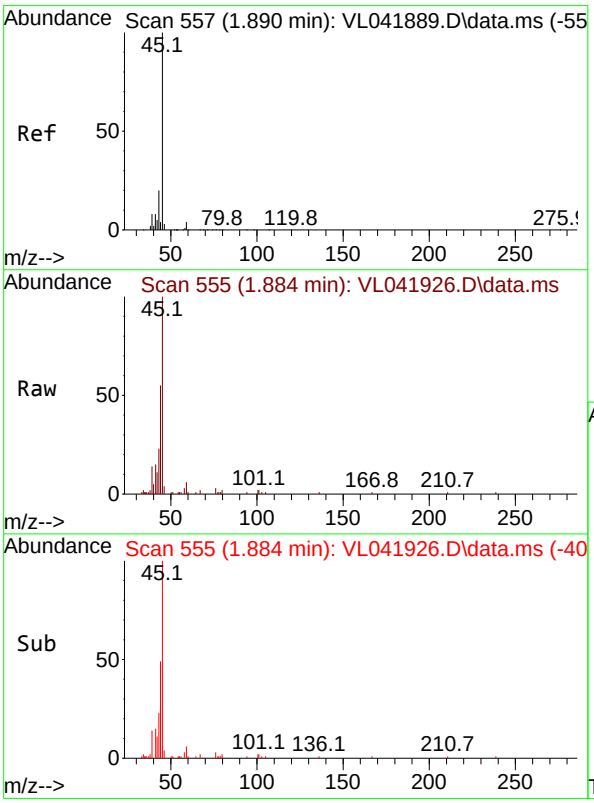

#16
1,3-Butadiene
Concen: 0.092 ppbv
RT: 1.596 min Scan# 4
Delta R.T. -0.016 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 39 Resp: 683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 66.6 | 61.6 | 92.4 |

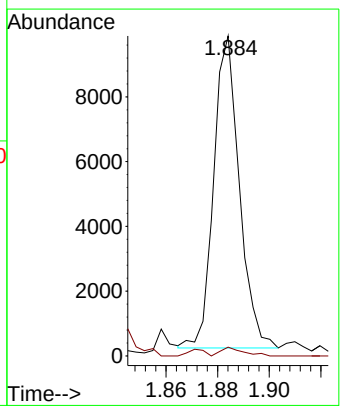


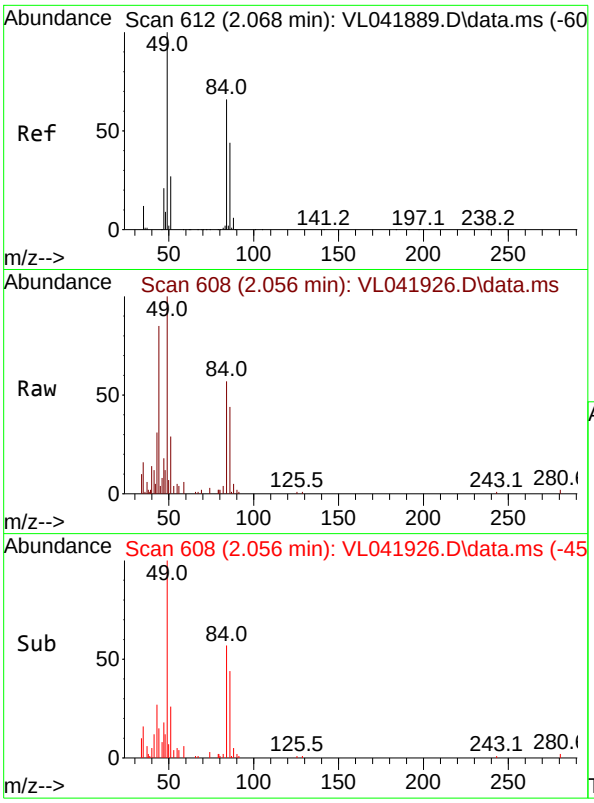




#19
Isopropyl Alcohol
Concen: 0.680 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.006 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 45 Resp: 6643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 200.9 | 35.0 | 52.6# |



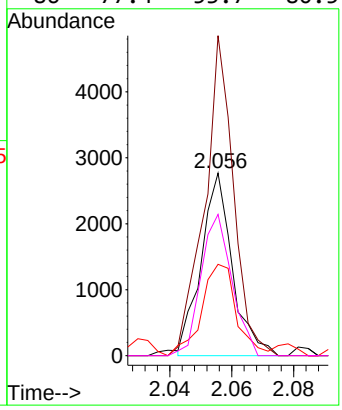


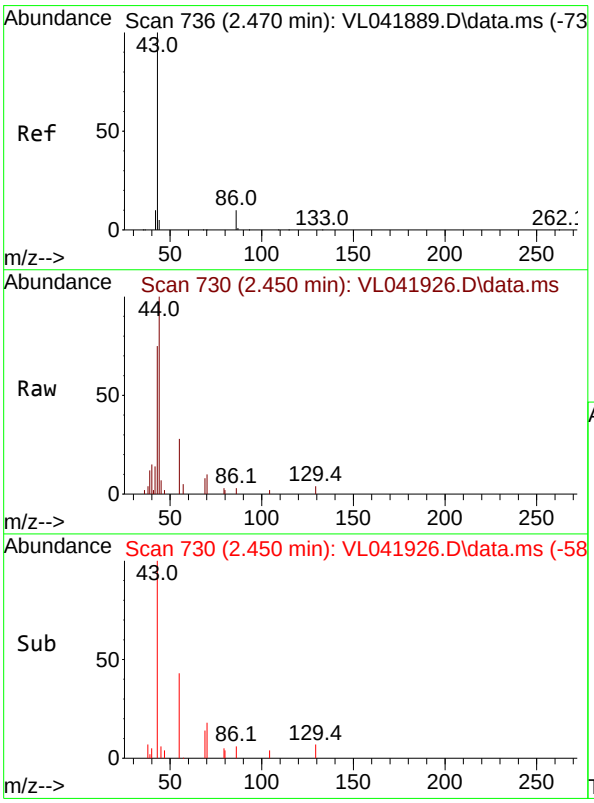

#20
Methylene Chloride
Concen: 0.298 ppbv
RT: 2.056 min Scan# 6
Delta R.T. -0.013 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 84 Resp: 1937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 175.2 | 123.1 | 184.7 |
| 51 | 44.5 | 35.8 | 53.8 |
| 86 | 77.4 | 53.7 | 80.5 |

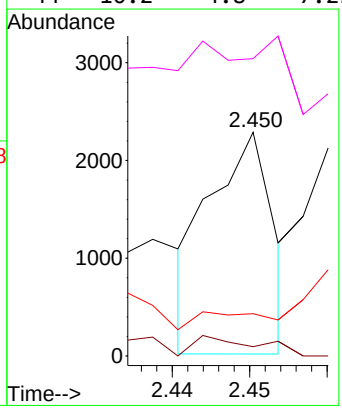


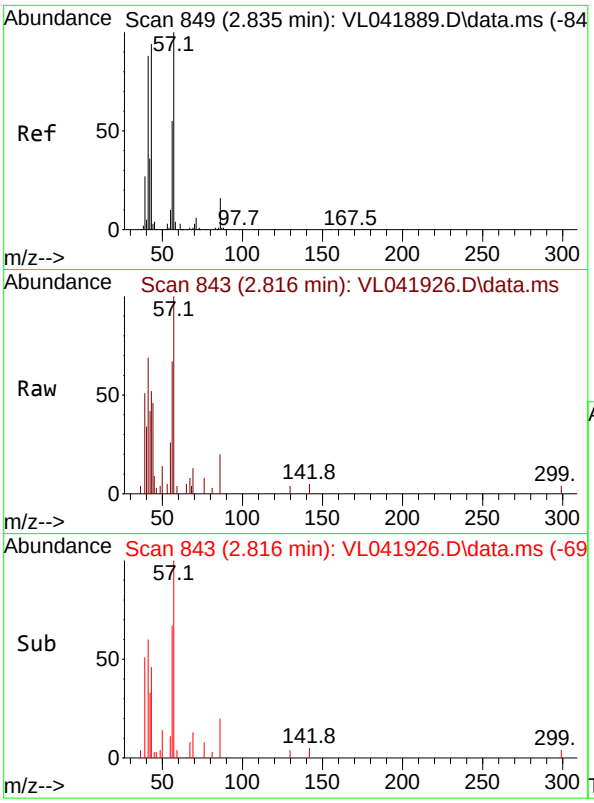




#23
Vinyl Acetate
Concen: 0.160 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.019 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 43 Resp: 1304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 8.0 | 6.2 | 9.4 |
| 42 | 5.4 | 8.5 | 12.7# |
| 44 | 10.2 | 4.8 | 7.2# |



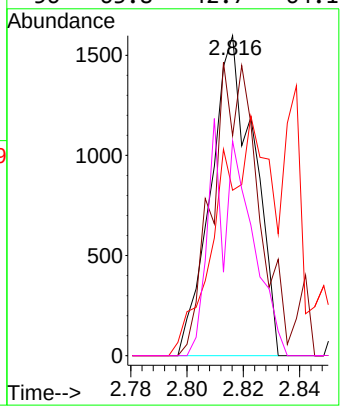


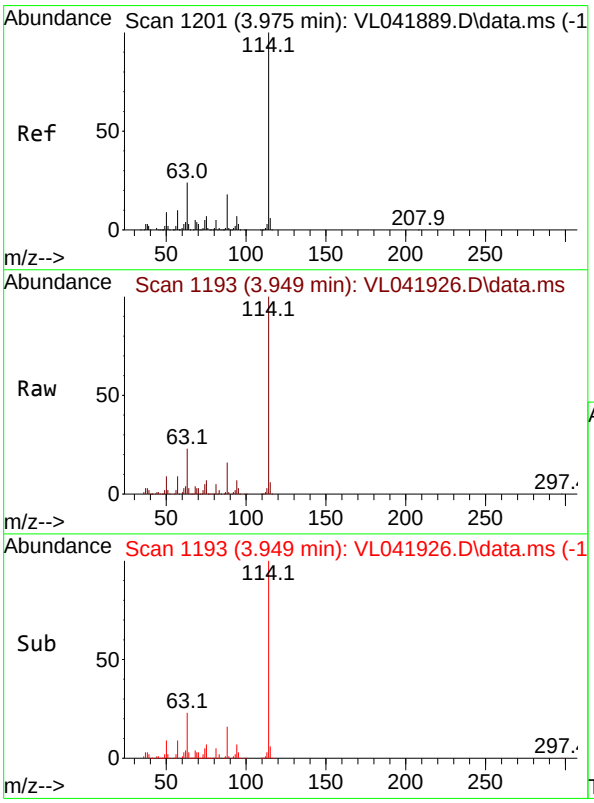

#26
Hexane
Concen: 0.097 ppbv
RT: 2.816 min Scan# 8
Delta R.T. -0.019 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 57 Resp: 1697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 103.9 | 73.8 | 110.8 |
| 43 | 0.0 | 197.3 | 295.9# |
| 56 | 63.8 | 42.7 | 64.1 |

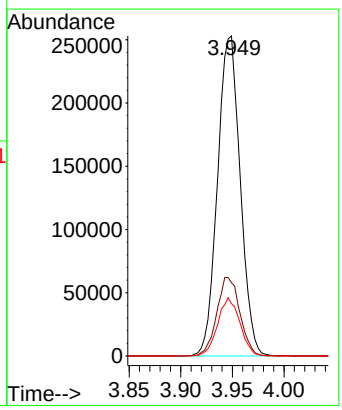


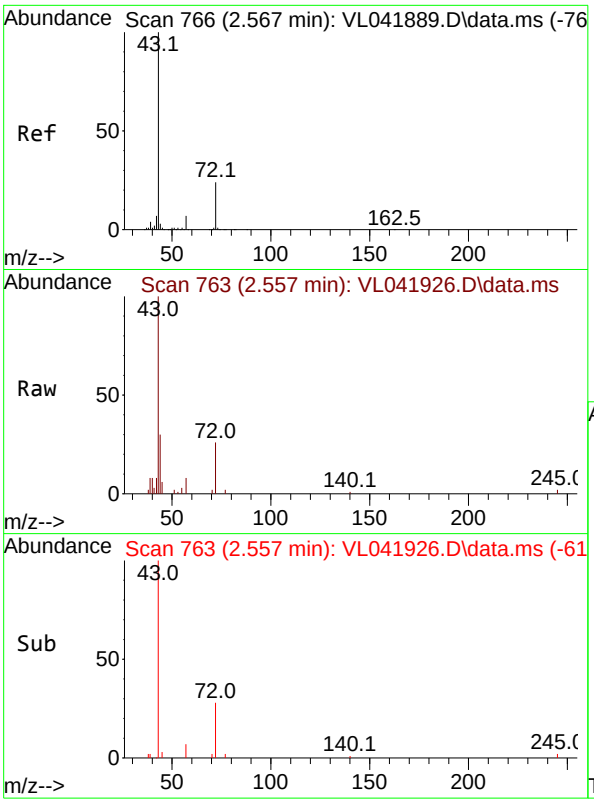




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion:114 Resp: 387237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.0 | 19.8 | 29.6 |
| 88 | 17.8 | 14.4 | 21.6 |



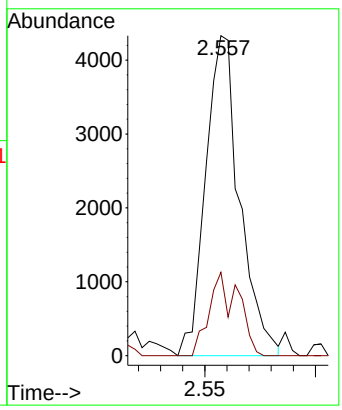


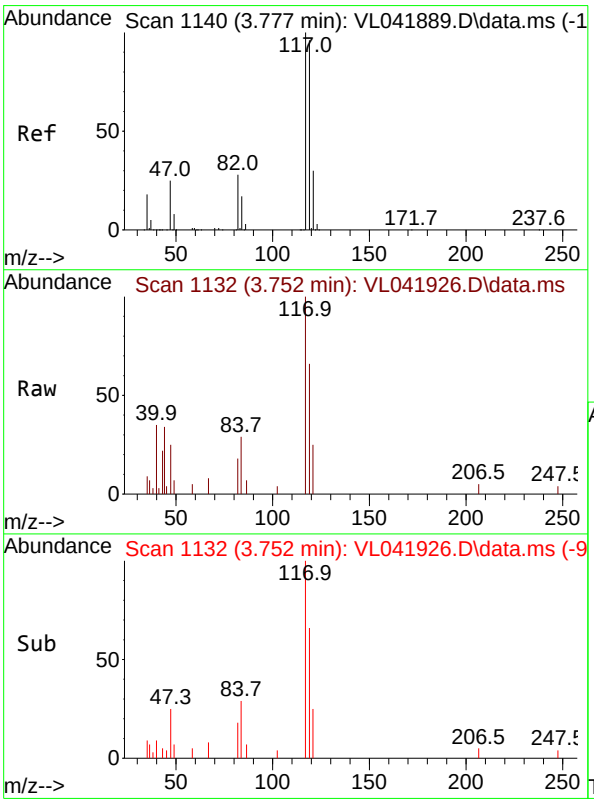

#34
2-Butanone
Concen: 0.188 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 43 Resp: 4619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.3 | 18.6 | 28.0 |

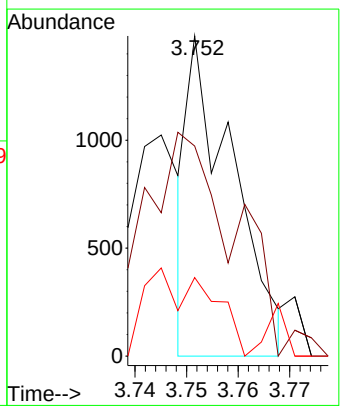


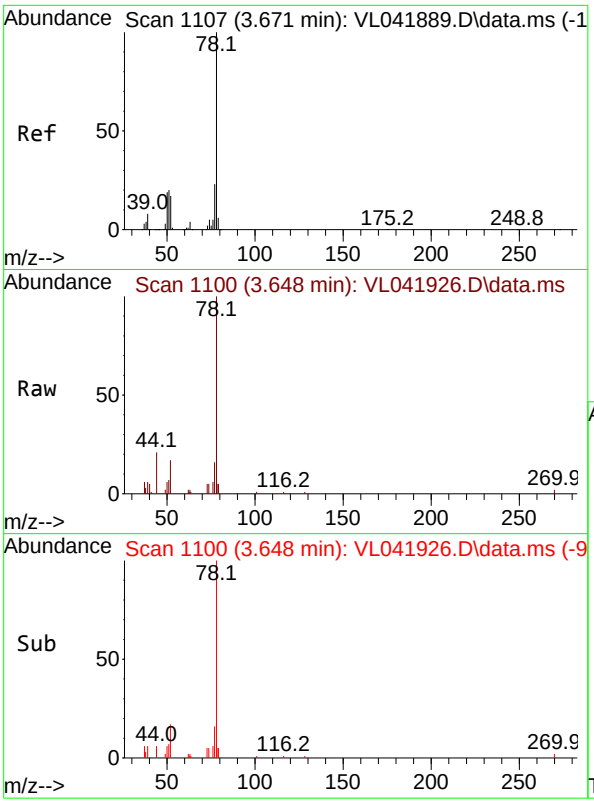




#35
Carbon Tetrachloride
Concen: 0.037 ppbv
RT: 3.752 min Scan# 1132
Delta R.T. -0.026 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion:117 Resp: 908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 77.0 | 76.9 | 115.3 |
| 121 | 12.2 | 23.8 | 35.6# |



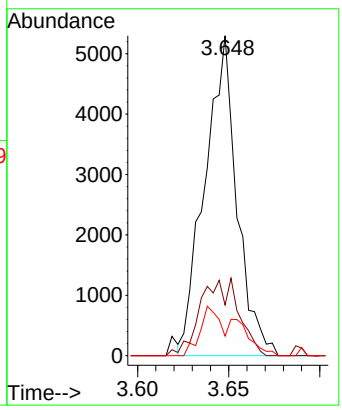


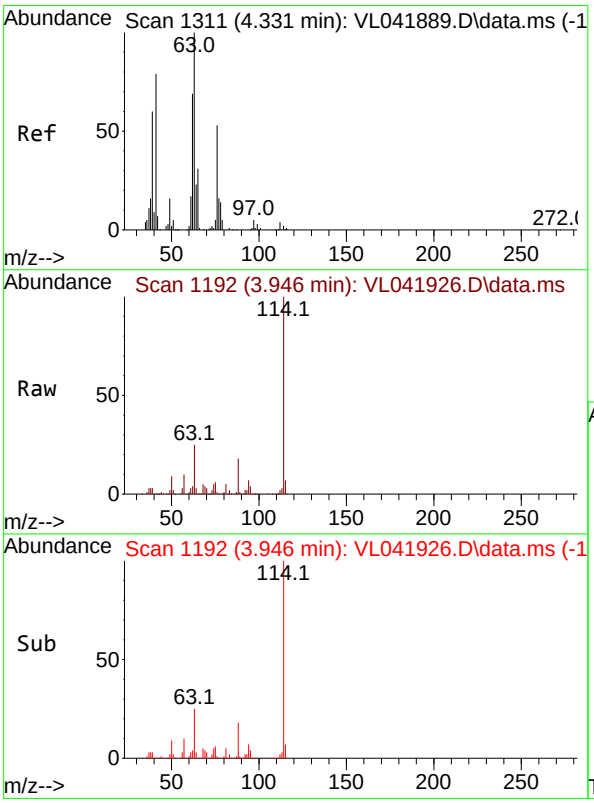

#36
Benzene
Concen: 0.183 ppbv
RT: 3.648 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 78 Resp: 6494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 15.9 | 18.1 | 27.1# |
| 50 | 6.1 | 15.2 | 22.8# |

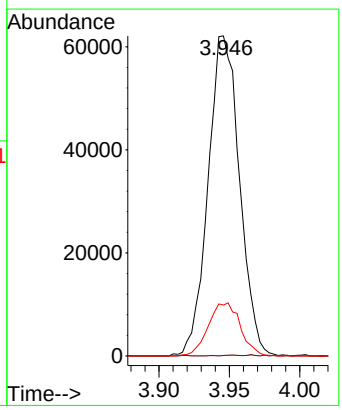


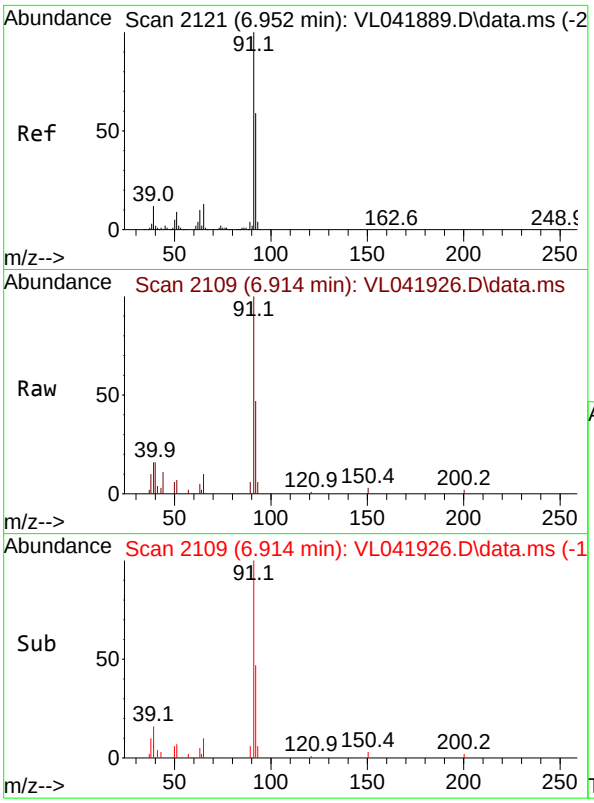




#39
1,2-Dichloropropane
Concen: 7.714 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.385 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 63 Resp: 96107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.1 | 63.7 | 95.5# |
| 62 | 15.9 | 55.4 | 83.2# |



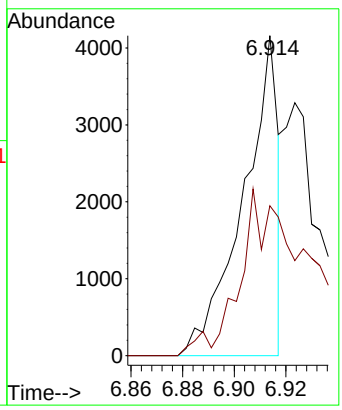


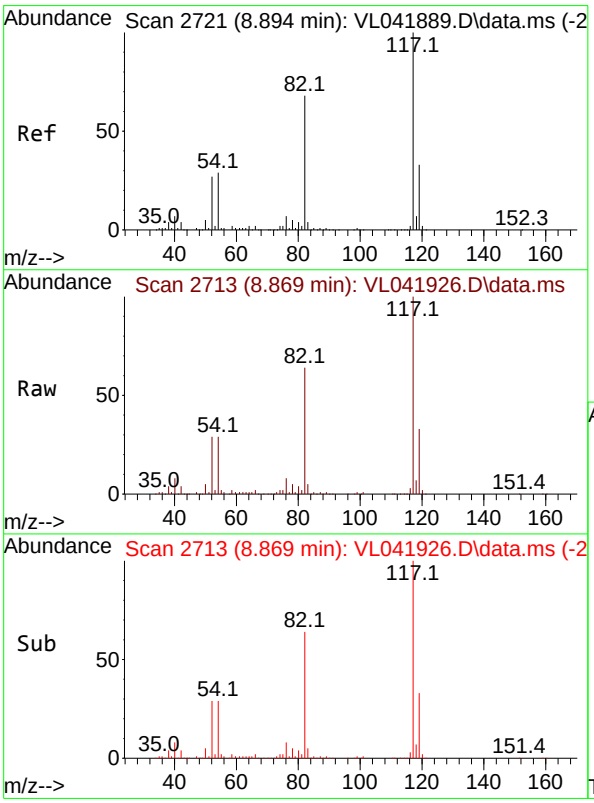

#53
Toluene
Concen: 0.101 ppbv
RT: 6.914 min Scan# 21
Delta R.T. -0.039 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 91 Resp: 3889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 98.8 | 47.4 | 71.0# |

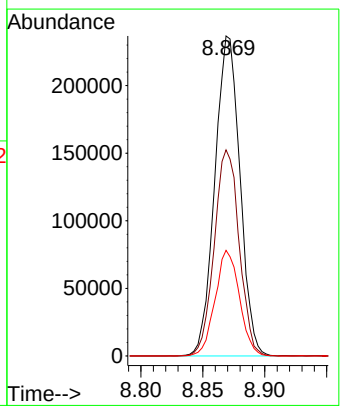


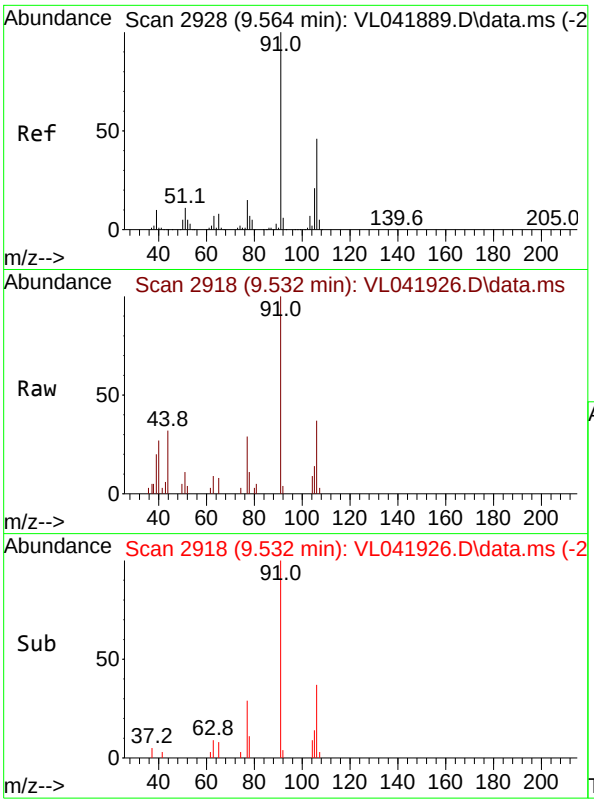




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.026 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion:117 Resp: 334961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.8 | 54.2 | 81.4 |
| 119 | 31.9 | 25.0 | 37.6 |



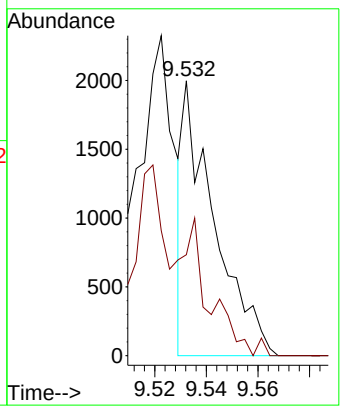


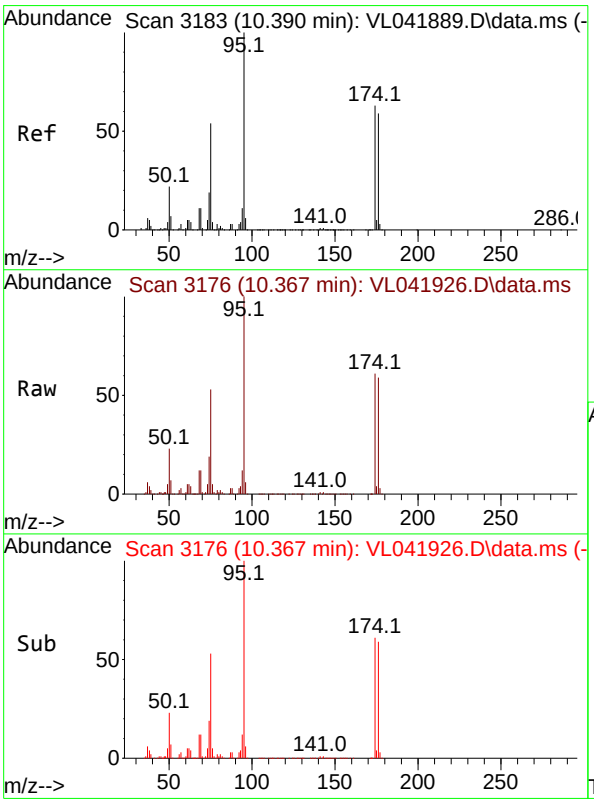

#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 9.532 min Scan# 2
Delta R.T. -0.032 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion: 91 Resp: 1683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 36.0 | 54.0# |

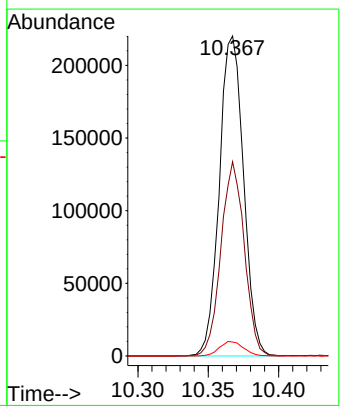


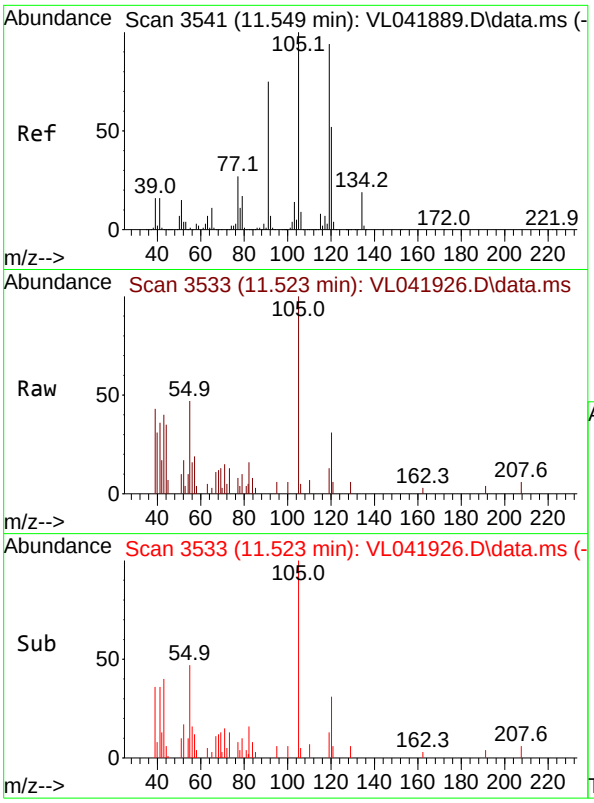




#68
1-Bromo-4-Fluorobenzene
Concen: 9.991 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.023 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

Tgt Ion: 95 Resp: 263580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.8 | 49.0 | 73.4 |
| 175 | 4.5 | 3.8 | 5.8 |






#74
1,2,4-Trimethylbenzene
Concen: 0.032 ppbv
RT: 11.523 min Scan# 3
Delta R.T. -0.026 min
Lab File: VL041926.D
Acq: 20 Jan 2025 18:42

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

Tgt Ion:105 Resp: 1506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.7 | 41.4 | 62.2# |
| 91 | 0.0 | 60.2 | 90.2# |
| 77 | 7.7 | 22.0 | 33.0# |