Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
Data File : VL041316.D
Acq On : 4 Jun 2024 23:17
Operator : SY/MD
Sample : P2682-02
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Quant Time: Jun 05 05:31:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jun 05 04:42:10 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.205 | 49 | 816280 | 10.000 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 6.658 | 114 | 2195150 | 10.000 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 11.462 | 117 | 2018588 | 10.000 | ppbv | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 13.770 | 95 | 1567002 | 10.054 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 100.500% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.758 | 85 | 35857 | 0.275 | ppbv | | 97 |
| 3) Chlorodifluoromethane | 2.706 | 51 | 113093 | 0.877 | ppbv | # | 84 |
| 4) Chloromethane | 2.845 | 50 | 33091 | 0.682 | ppbv | | 96 |
| 9) Propene | 2.735 | 41 | 81410 | 1.772 | ppbv | # | 71 |
| 10) Heptane | 7.584 | 43 | 7630 | 0.070 | ppbv | # | 12 |
| 11) Trichlorofluoromethane | 3.587 | 101 | 27124 | 0.226 | ppbv | | 94 |
| 12) 1,1,2-Trichlorotrifluo... | 4.086 | 101 | 5846 | 0.069 | ppbv | # | 74 |
| 13) Ethanol | 2.883 | 45 | 1152 | 0.096 | ppbv | # | 1 |
| 15) Acetone | 3.501 | 43 | 149994 | 1.609 | ppbv | # | 49 |
| 16) 1,3-Butadiene | 2.996 | 39 | 4080 | 0.087 | ppbv | # | 75 |
| 20) Methylene Chloride | 3.951 | 84 | 1548362 | 45.709 | ppbv | | 96 |
| 25) Ethyl Acetate | 5.224 | 43 | 1516107 | 8.223 | ppbv | # | 77 |
| 26) Hexane | 5.224 | 57 | 2121545 | 25.587 | ppbv | # | 41 |
| 34) 2-Butanone | 4.819 | 43 | 17878 | 0.170 | ppbv | # | 89 |
| 35) Carbon Tetrachloride | 6.500 | 117 | 6589 | 0.053 | ppbv | # | 74 |
| 36) Benzene | 6.378 | 78 | 14397 | 0.085 | ppbv | # | 91 |
| 39) 1,2-Dichloropropane | 6.658 | 63 | 553949 | 8.176 | ppbv | # | 25 |
| 41) Tetrahydrofuran | 5.221 | 42 | 794118 | 11.606 | ppbv | # | 50 |
| 44) 2,2,4-Trimethylpentane | 7.333 | 57 | 138213 | 0.472 | ppbv | | 91 |
| 53) Toluene | 9.217 | 91 | 566398 | 2.894 | ppbv | | 99 |
| 58) Ethyl Benzene | 12.079 | 91 | 41247 | 0.159 | ppbv | | 98 |
| 59) m/p-Xylene | 12.339 | 91 | 368982 | 1.664 | ppbv | | 97 |
| 60) o-Xylene | 13.050 | 91 | 126320 | 0.598 | ppbv | | 96 |
| 61) Styrene | 12.889 | 104 | 91546 | 0.884 | ppbv | | 99 |
| 72) 4-Ethyltoluene | 15.185 | 105 | 23578 | 0.096 | ppbv | # | 73 |
| 73) 1,3,5-Trimethylbenzene | 15.343 | 105 | 30175 | 0.141 | ppbv | | 95 |
| 74) 1,2,4-Trimethylbenzene | 16.105 | 105 | 40094 | 0.166 | ppbv | # | 73 |

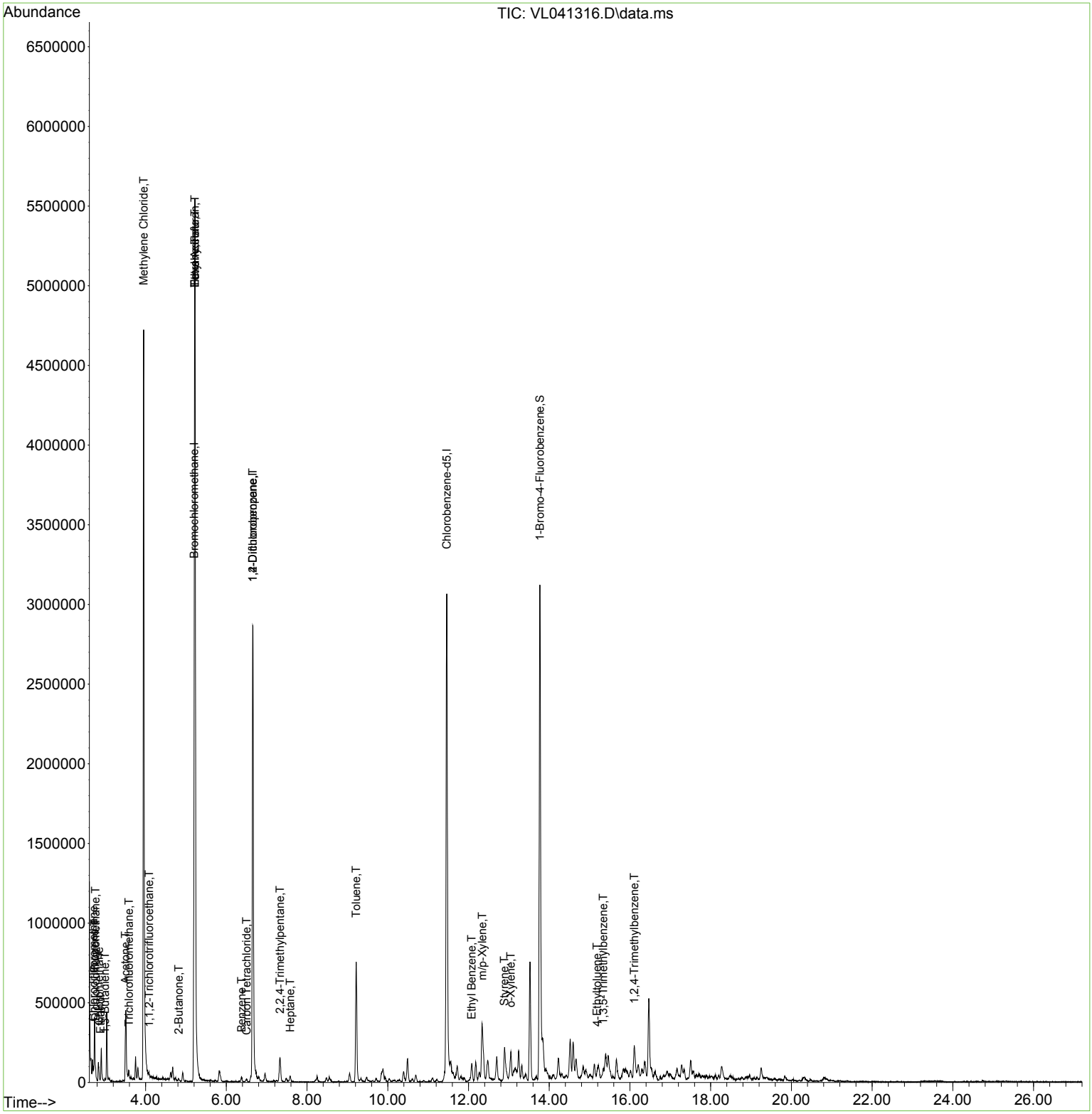
(#) = qualifier out of range (m) = manual integration (+) = signals summed

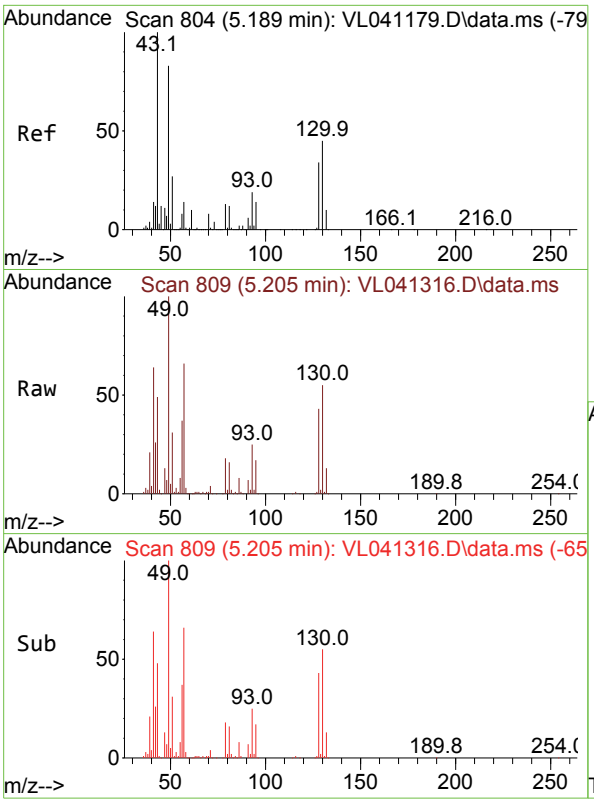
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
Data File : VL041316.D
Acq On : 4 Jun 2024 23:17
Operator : SY/MD
Sample : P2682-02
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Quant Time: Jun 05 05:31:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jun 05 04:42:10 2024
Response via : Initial Calibration



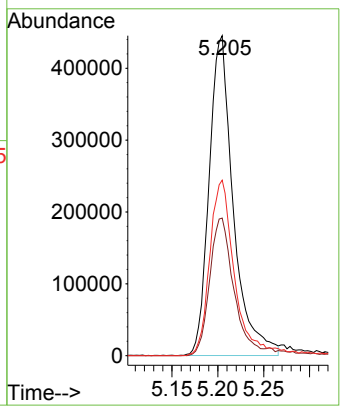


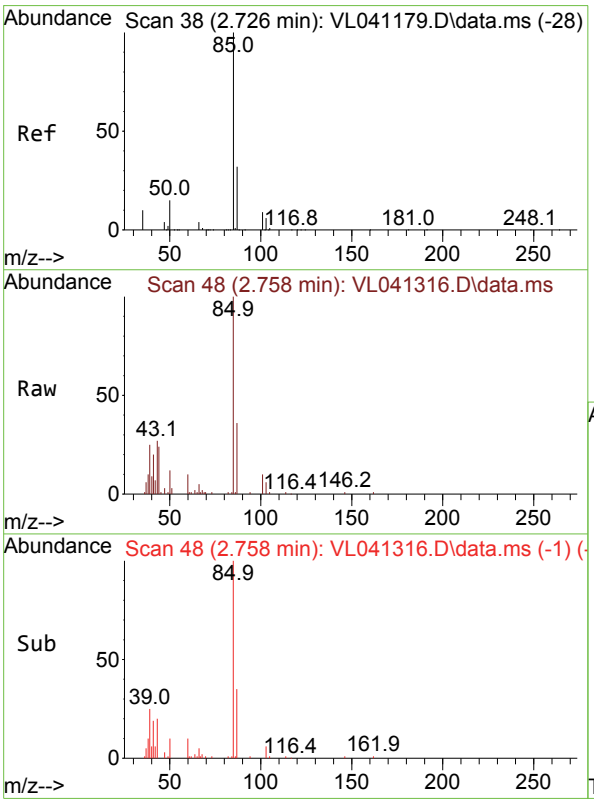

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 49 Resp: 816280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 45.4 | 22.8 | 68.3 |
| 130 | 58.3 | 28.4 | 85.3 |

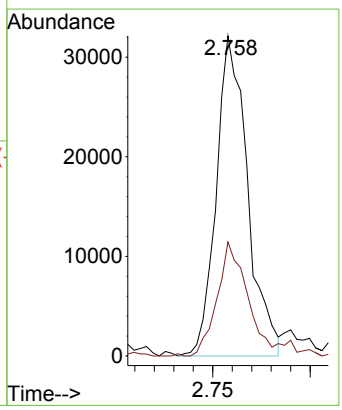


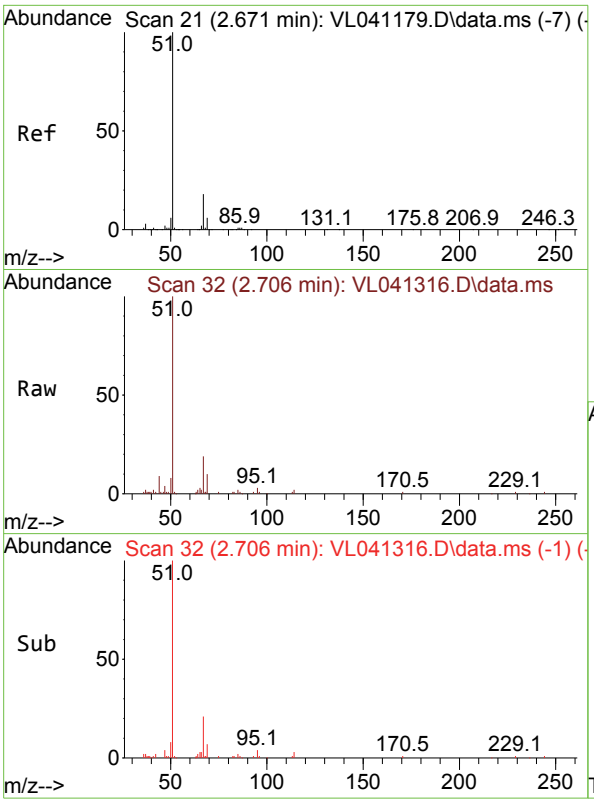




#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 85 Resp: 35857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.9 | 26.5 | 39.7 |



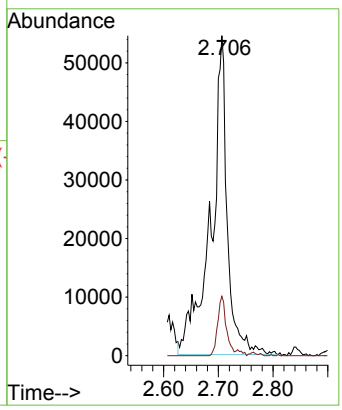


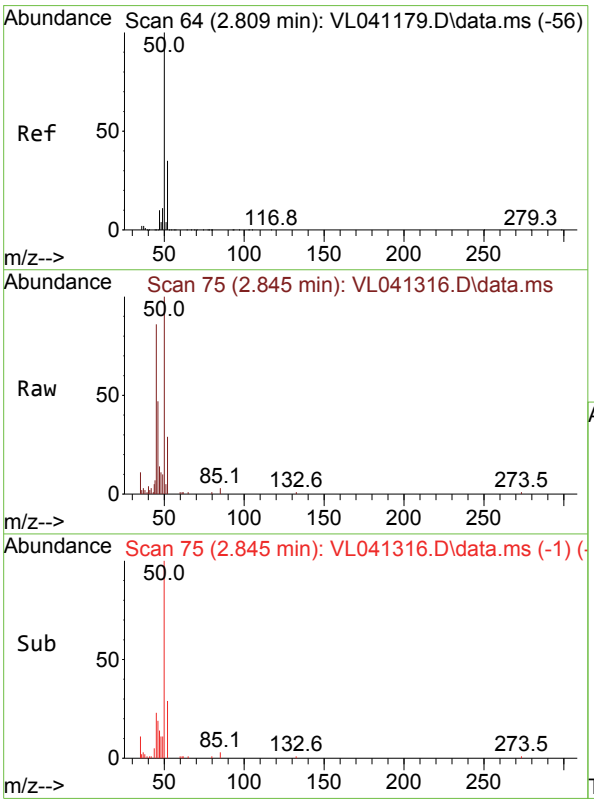

#3
Chlorodifluoromethane
Concen: 0.877 ppbv
RT: 2.706 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 51 Resp: 113093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 11.1 | 14.7 | 22.1# |

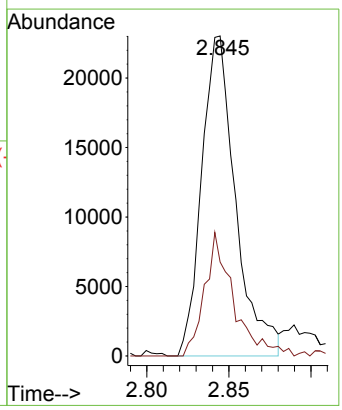


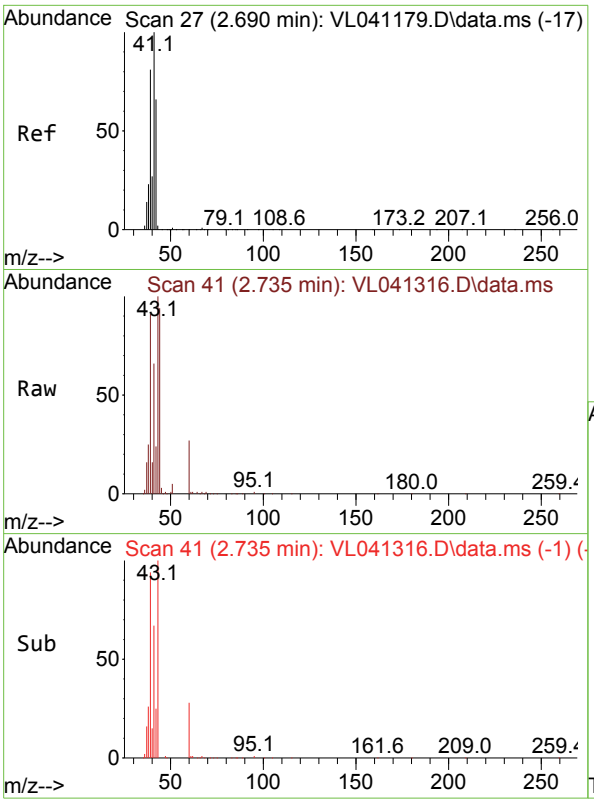




#4
Chloromethane
Concen: 0.682 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.006 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 50 Resp: 33091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.6 | 25.6 | 38.4 |



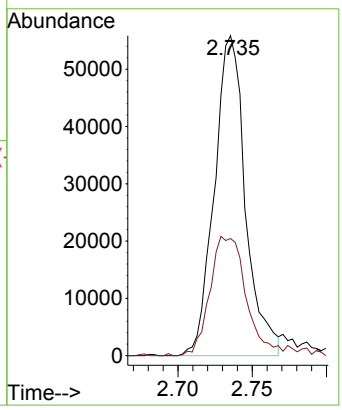


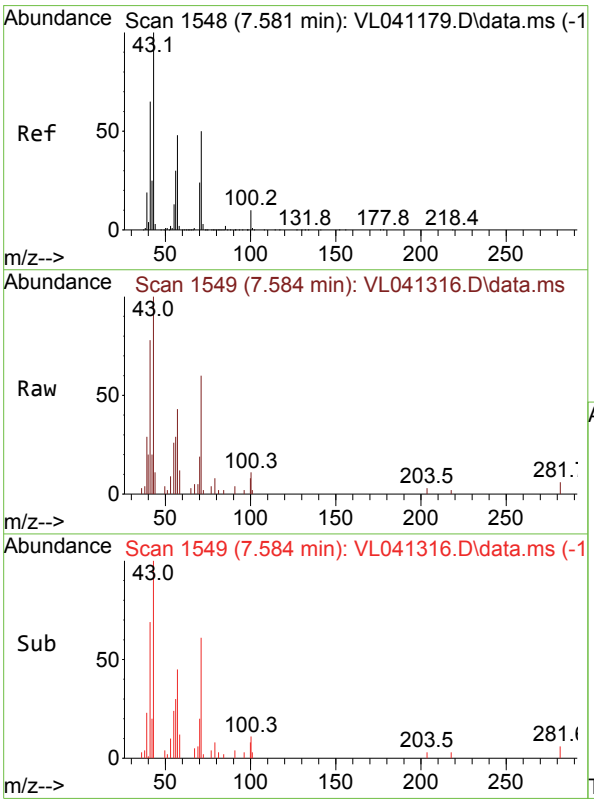

#9
Propene
Concen: 1.772 ppbv
RT: 2.735 min Scan# 4
Delta R.T. 0.013 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 41 Resp: 81410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 45.2 | 55.2 | 82.8# |

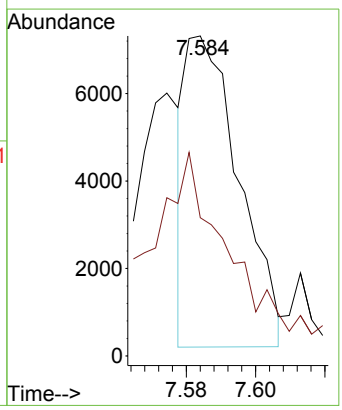


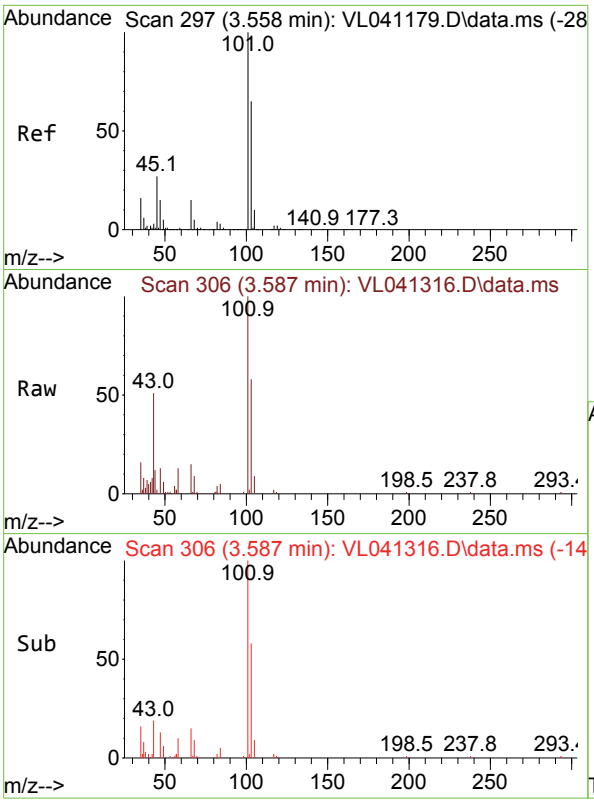




#10
Heptane
Concen: 0.070 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 43 Resp: 7630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 108.2 | 39.0 | 58.4# |



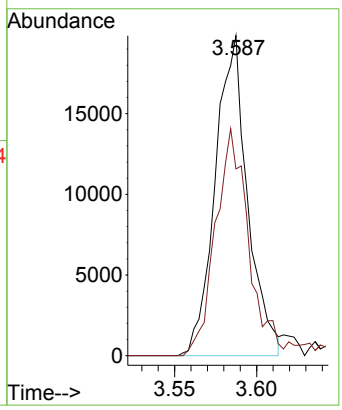


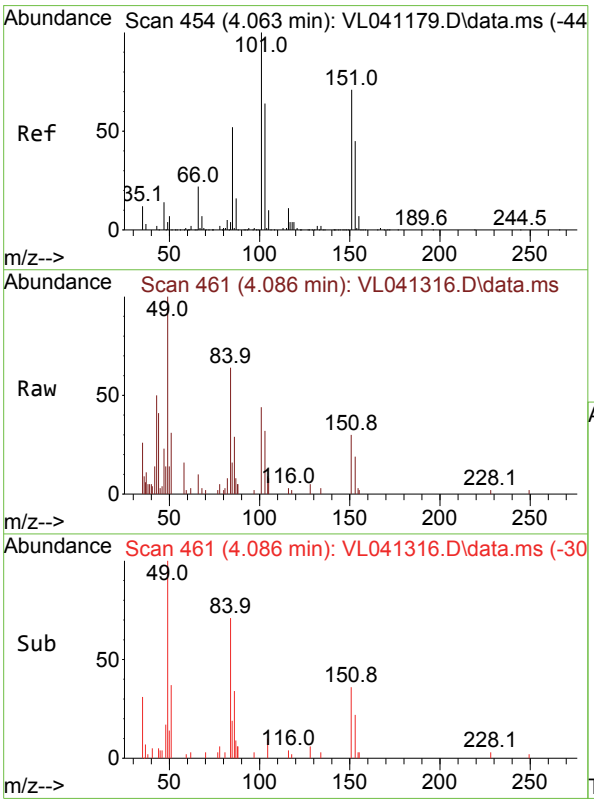

#11
Trichlorofluoromethane
Concen: 0.226 ppbv
RT: 3.587 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:101 Resp: 27124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 58.4 | 50.6 | 76.0 |

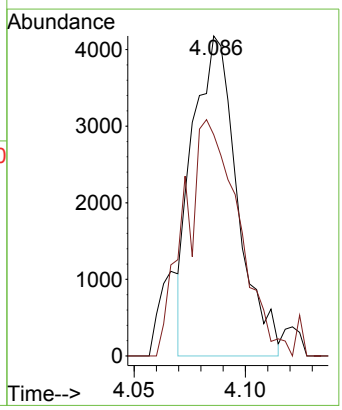


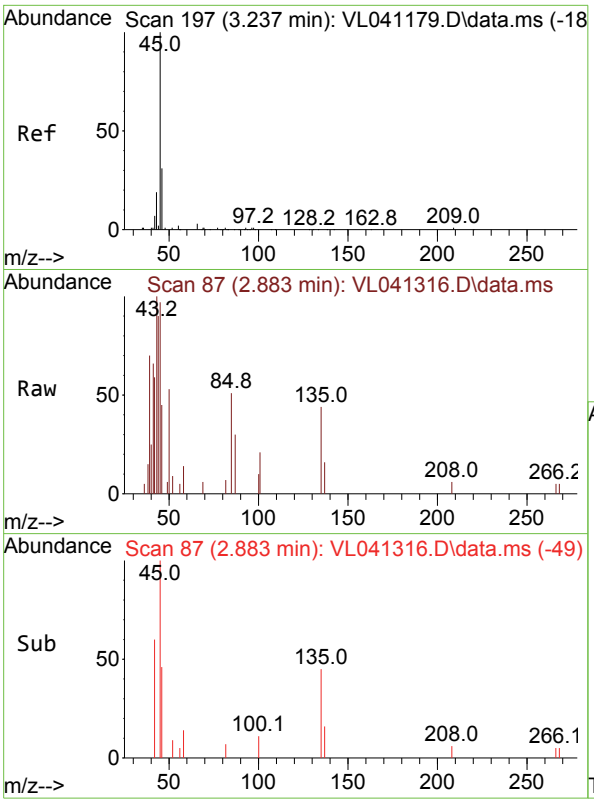




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 4.086 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion:101 Resp: 5846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 89.8 | 54.8 | 82.2# |



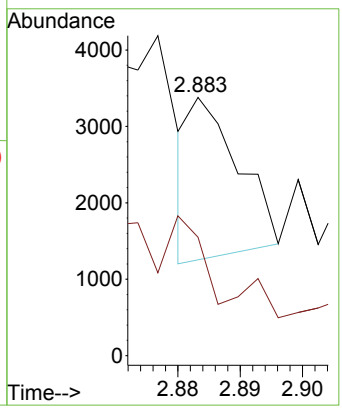


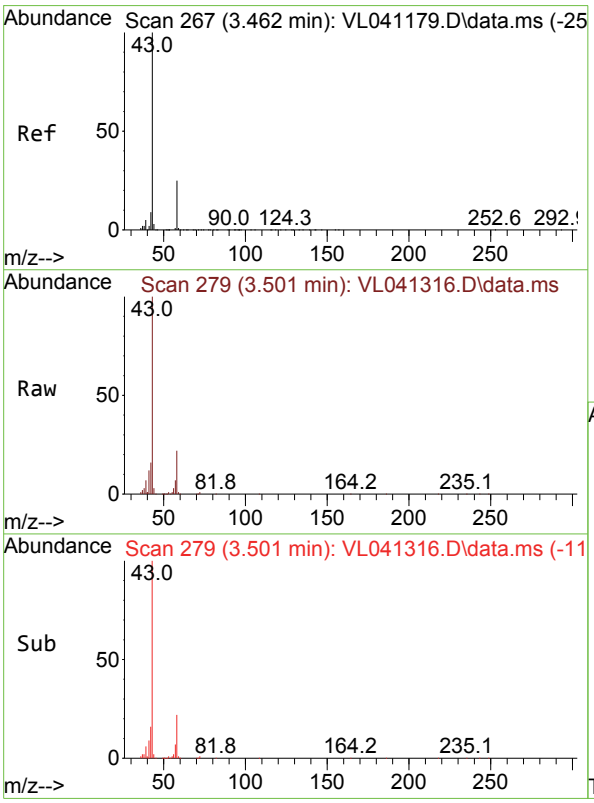

#13
Ethanol
Concen: 0.096 ppbv
RT: 2.883 min Scan# 8
Delta R.T. -0.379 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 45 Resp: 1152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 127.3 | 14.2 | 56.6# |

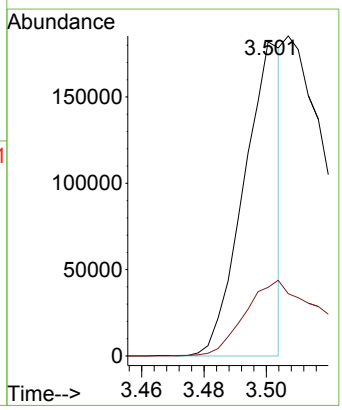


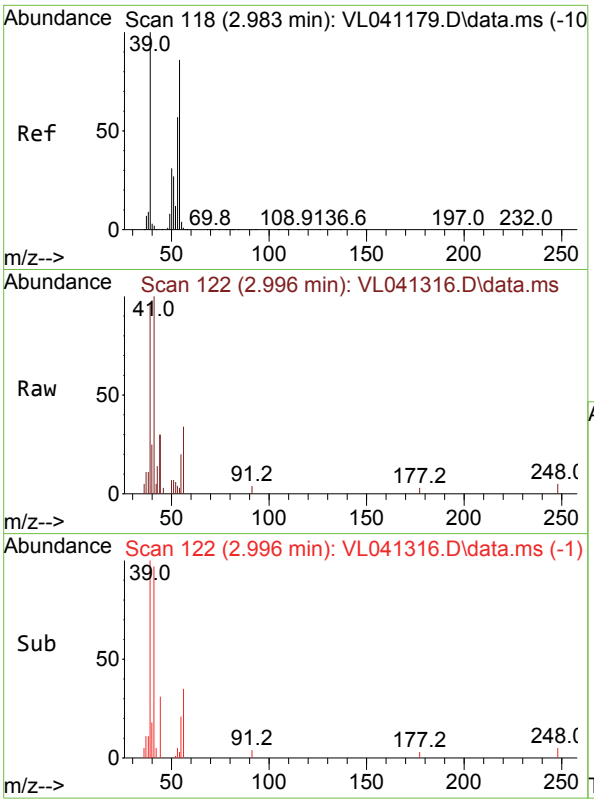




#15
Acetone
Concen: 1.609 ppbv
RT: 3.501 min Scan# 279
Delta R.T. 0.013 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 43 Resp: 149994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 20.6 | 31.0# |



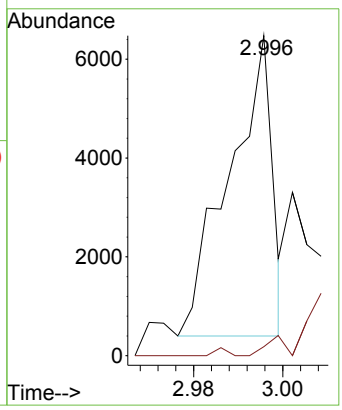


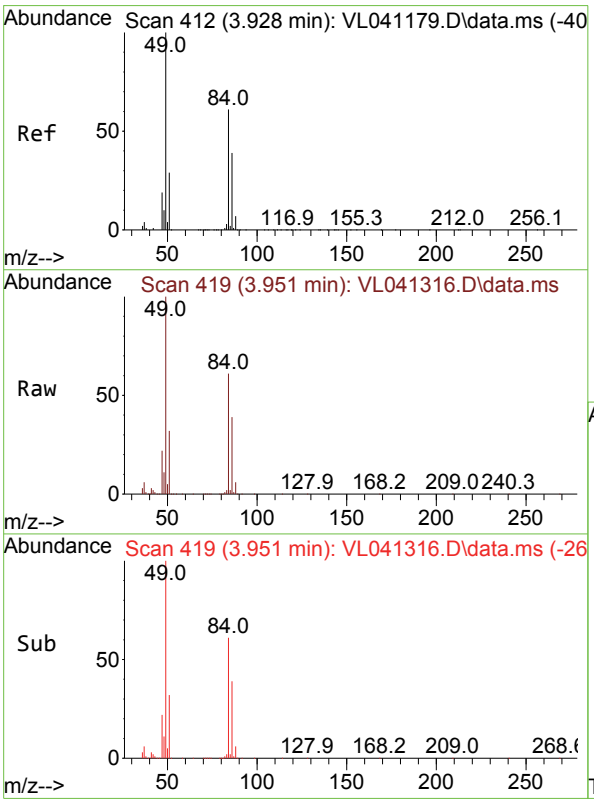

#16
1,3-Butadiene
Concen: 0.087 ppbv
RT: 2.996 min Scan# 1
Delta R.T. -0.013 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 39 Resp: 4080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 54.2 | 60.5 | 90.7# |

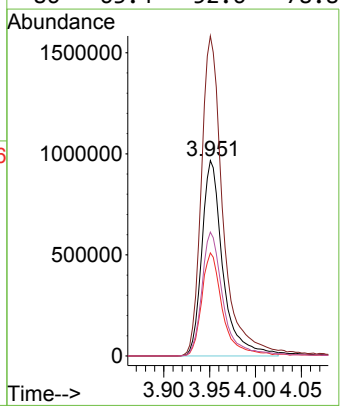


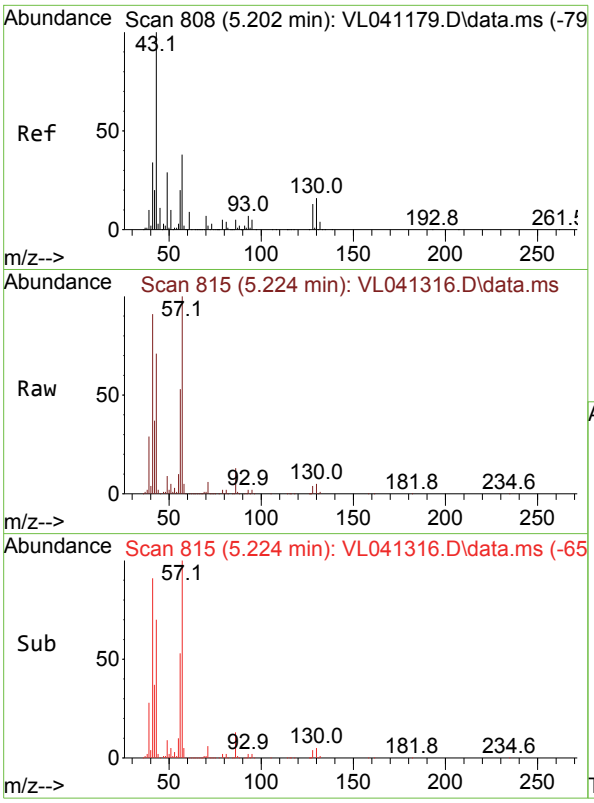




#20
Methylene Chloride
Concen: 45.709 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 84 Resp: 1548362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 163.8 | 136.2 | 204.2 |
| 51 | 52.8 | 41.9 | 62.9 |
| 86 | 63.4 | 52.6 | 78.8 |



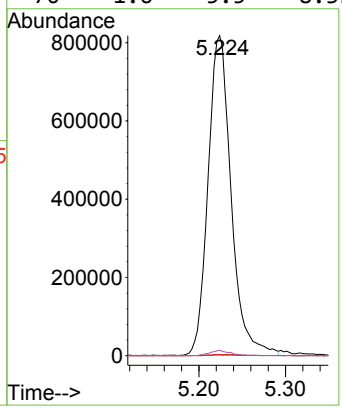


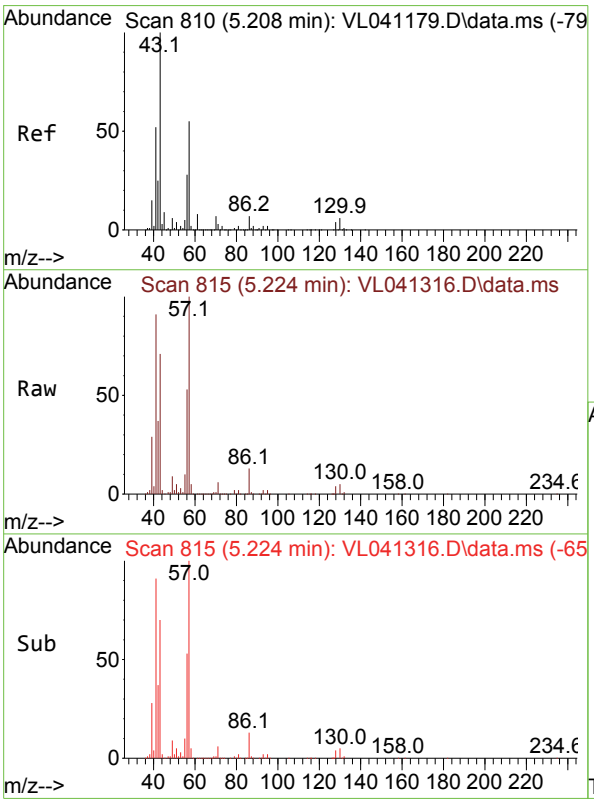

#25
Ethyl Acetate
Concen: 8.223 ppbv
RT: 5.224 min Scan# 8
Delta R.T. 0.010 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 43 Resp: 1516107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.5 | 8.1 | 12.1# |
| 61 | 0.4 | 7.4 | 11.0# |
| 70 | 1.6 | 5.5 | 8.3# |

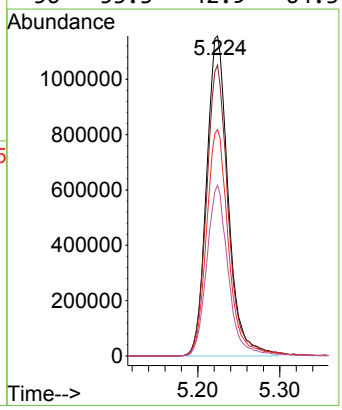


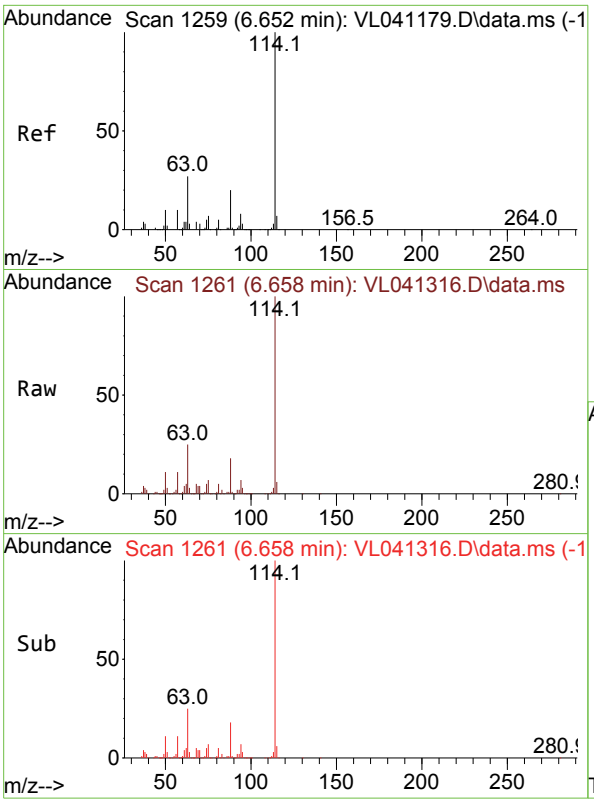




#26
Hexane
Concen: 25.587 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 57 Resp: 2121545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 92.5 | 77.1 | 115.7 |
| 43 | 72.5 | 186.1 | 279.1# |
| 56 | 53.3 | 42.9 | 64.3 |



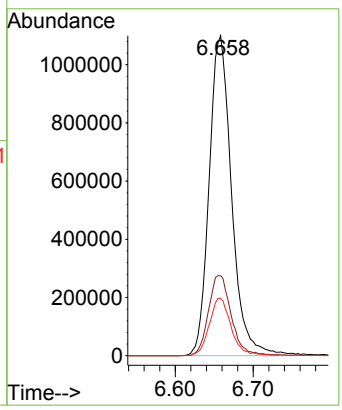


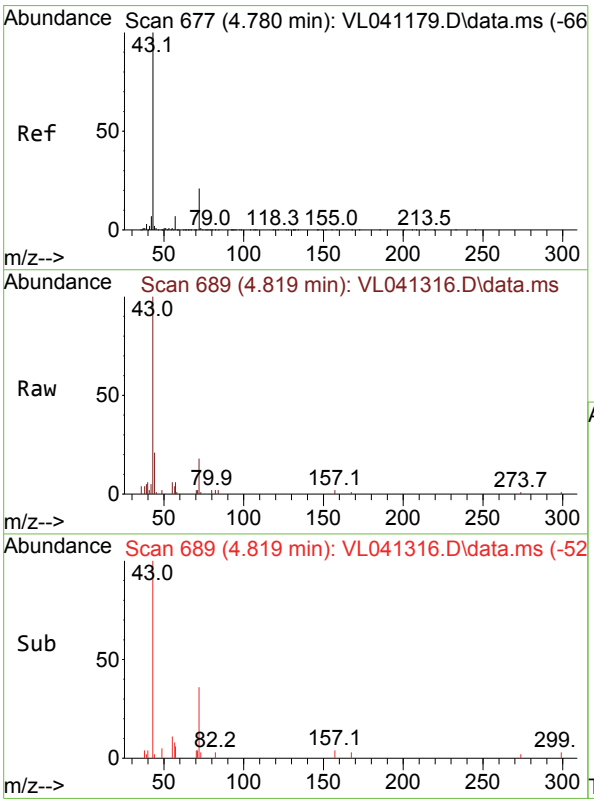

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:114 Resp: 2195150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 25.7 | 20.6 | 30.8 |
| 88 | 17.7 | 14.5 | 21.7 |

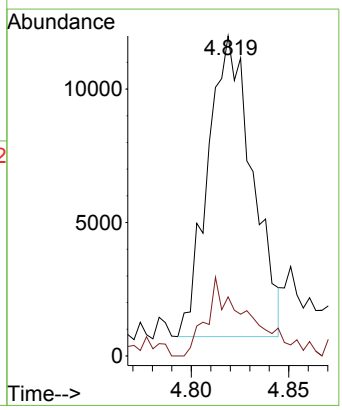


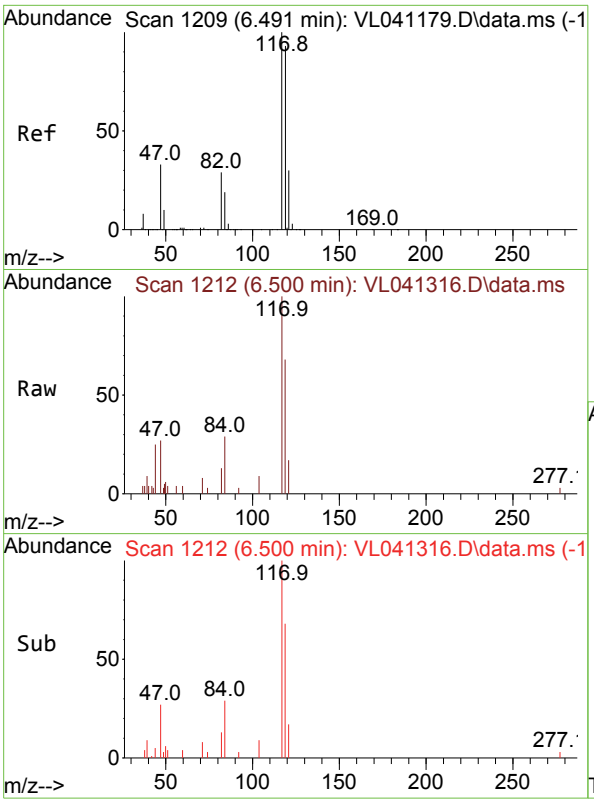




#34
2-Butanone
Concen: 0.170 ppbv
RT: 4.819 min Scan# 689
Delta R.T. 0.023 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 43 Resp: 17878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 17.4 | 26.0# |



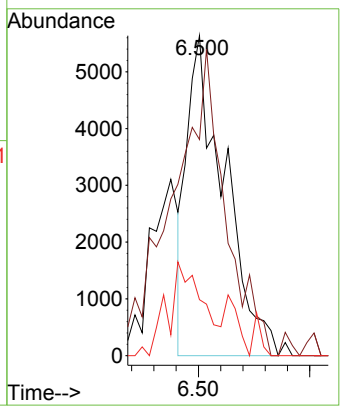


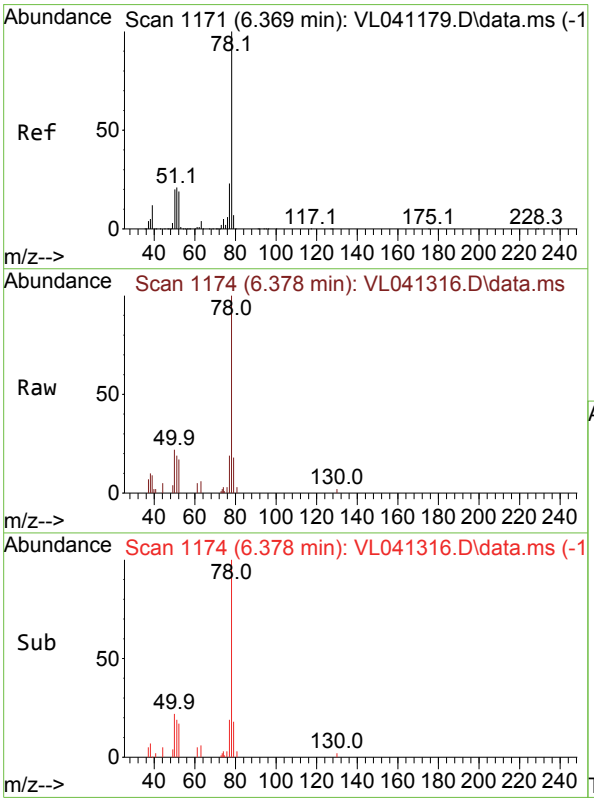

#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 6.500 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:117 Resp: 6589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 67.6 | 74.0 | 111.0# |
| 121 | 17.5 | 24.8 | 37.2# |

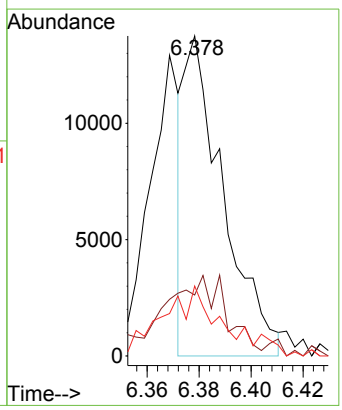


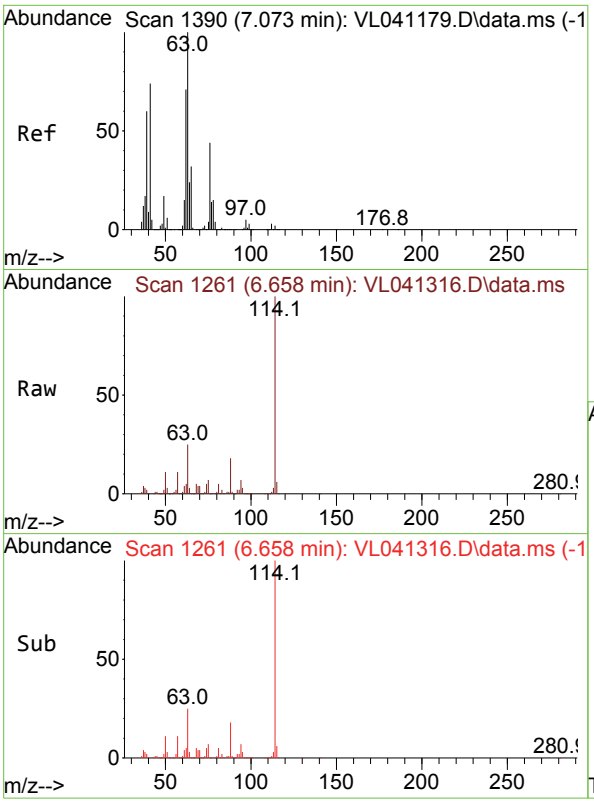




#36
Benzene
Concen: 0.085 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 78 Resp: 14397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 15.1 | 18.6 | 28.0# |
| 50 | 20.4 | 16.0 | 24.0 |



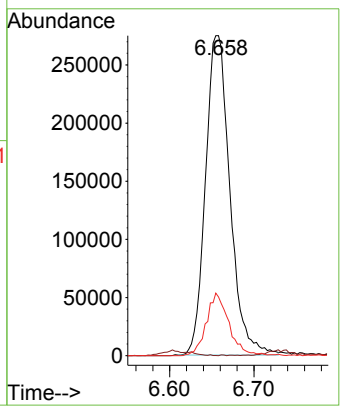


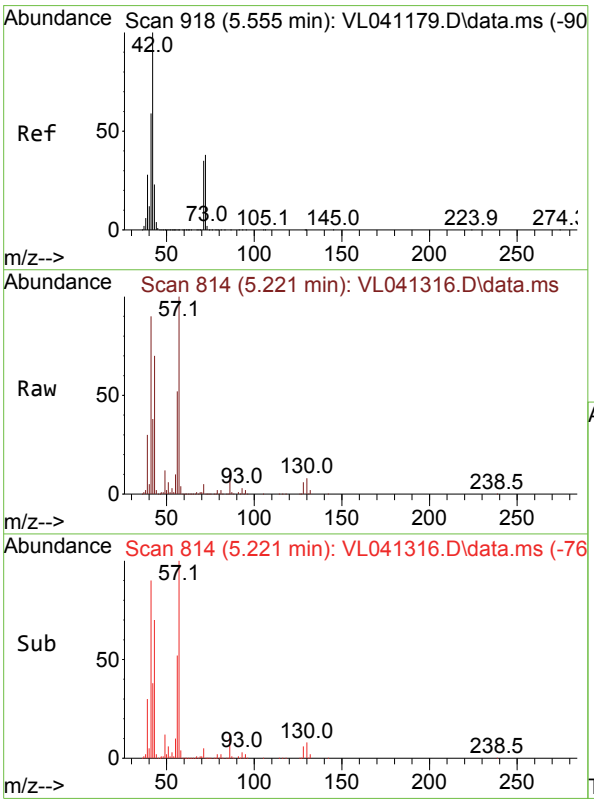

#39
1,2-Dichloropropane
Concen: 8.176 ppbv
RT: 6.658 min Scan# 1
Delta R.T. -0.421 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 63 Resp: 553949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 59.9 | 89.9# |
| 62 | 18.4 | 53.8 | 80.6# |

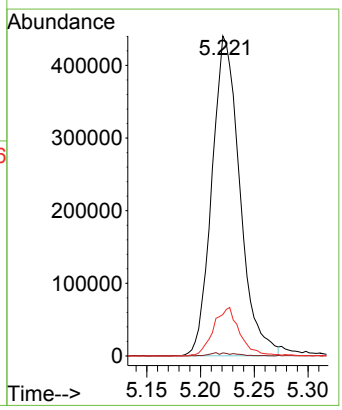


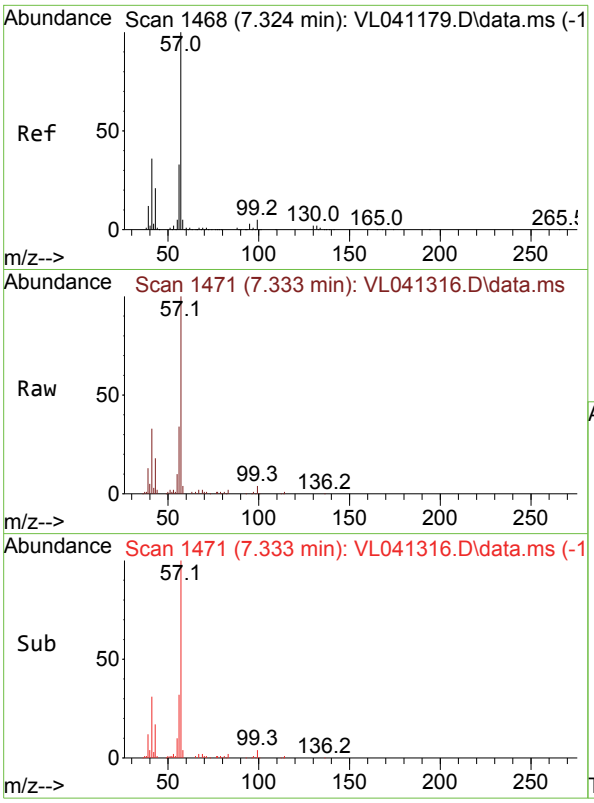




#41
Tetrahydrofuran
Concen: 11.606 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.344 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 42 Resp: 794118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 1.1 | 30.2 | 45.4# |
| 71 | 14.5 | 30.3 | 45.5# |



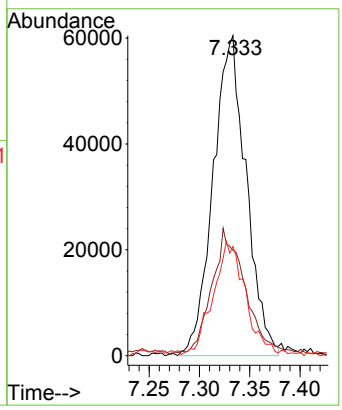


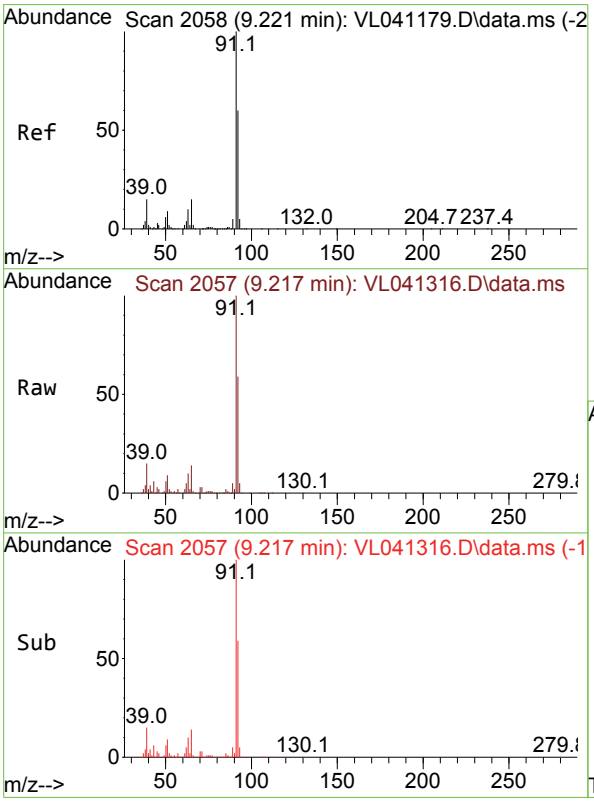

#44
2,2,4-Trimethylpentane
Concen: 0.472 ppbv
RT: 7.333 min Scan# 14
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 57 Resp: 138213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 42.1 | 29.4 | 44.2 |
| 56 | 36.3 | 25.0 | 37.4 |

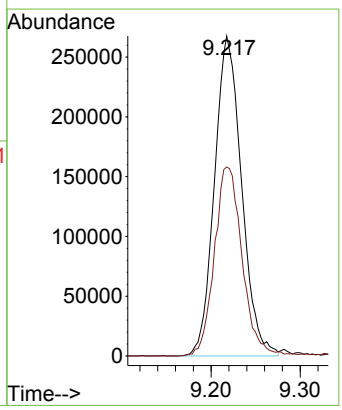


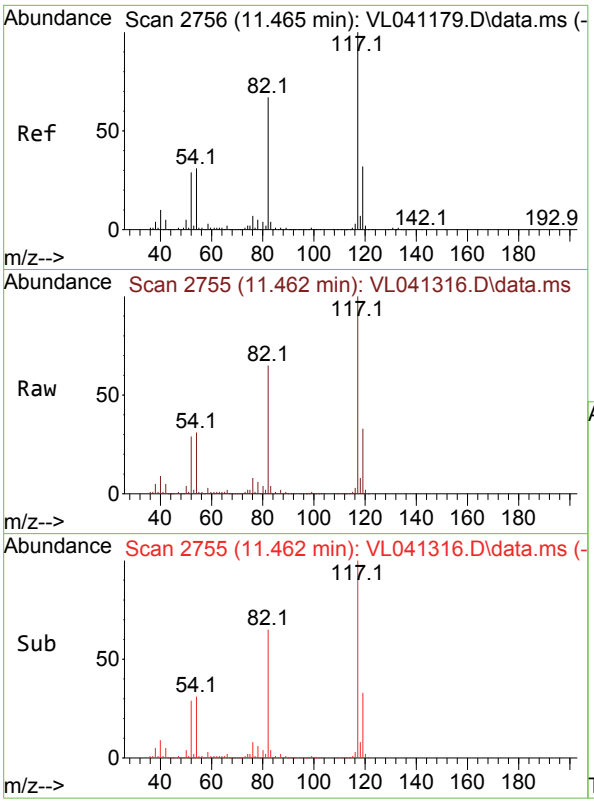




#53
Toluene
Concen: 2.894 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 91 Resp: 566398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.5 | 49.2 | 73.8 |



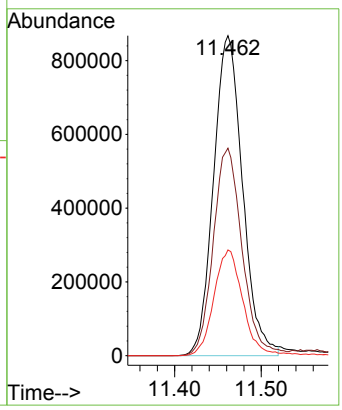


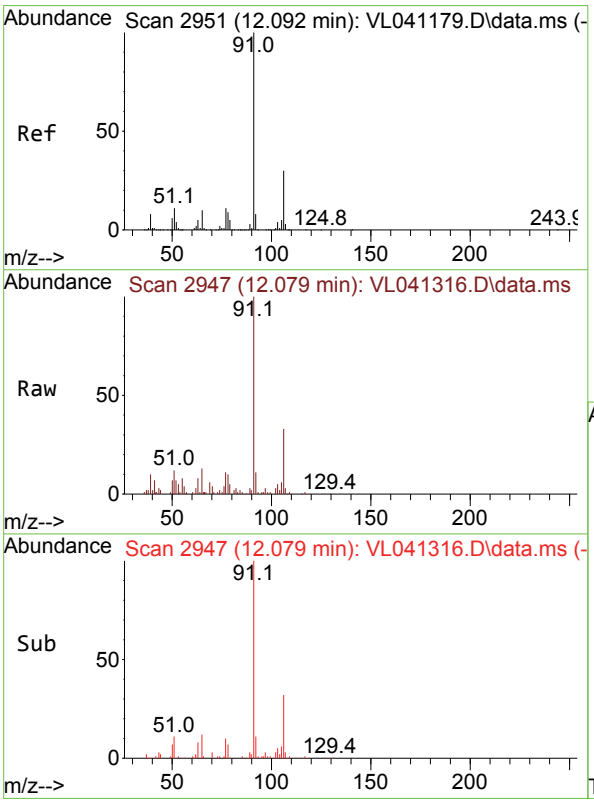

#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:117 Resp: 2018588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 64.6 | 52.3 | 78.5 |
| 119 | 33.7 | 26.2 | 39.2 |

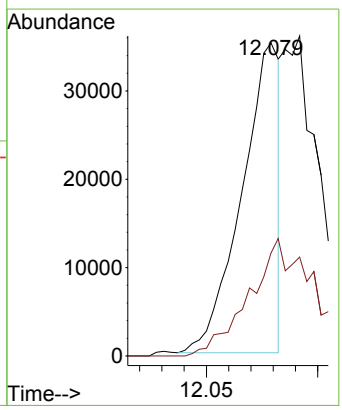


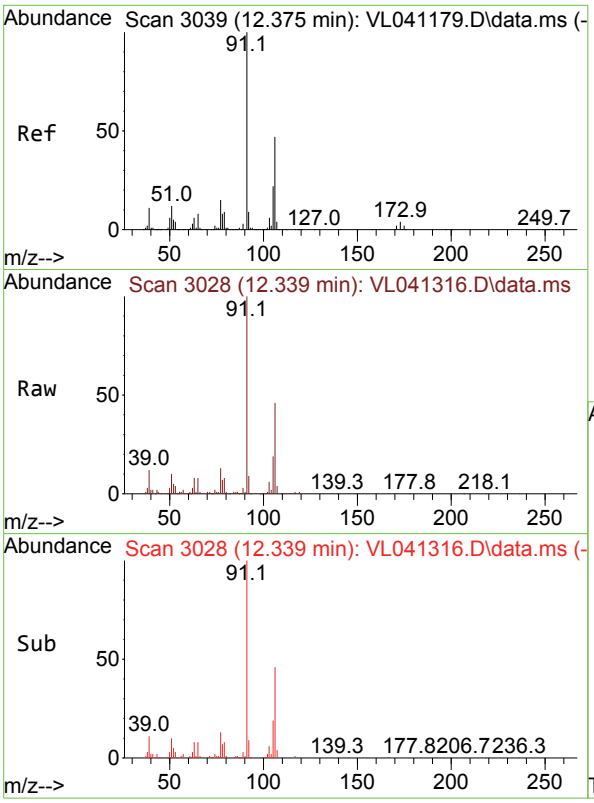




#58
Ethyl Benzene
Concen: 0.159 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 91 Resp: 41247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.2 | 25.5 | 38.3 |



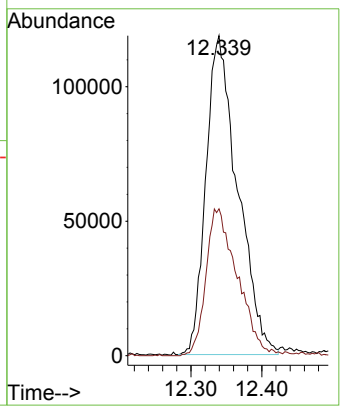


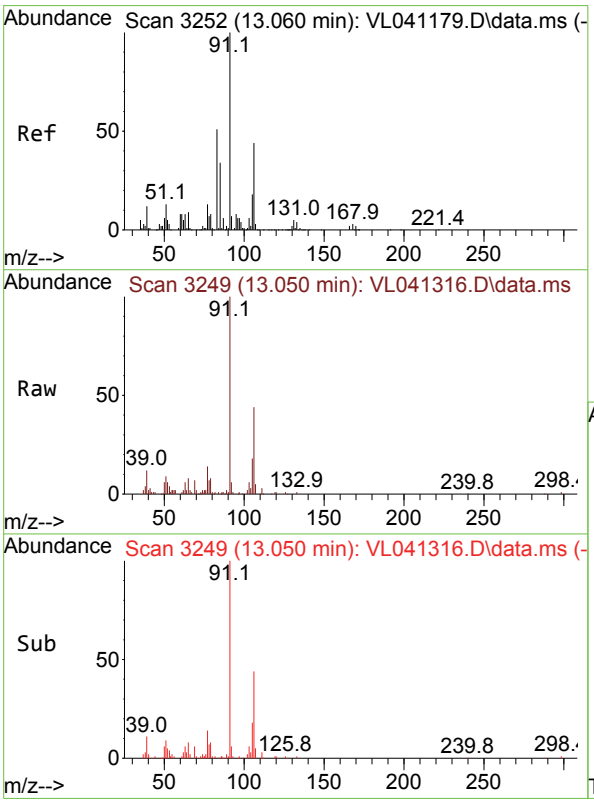

#59
m/p-Xylene
Concen: 1.664 ppbv
RT: 12.339 min Scan# 3
Delta R.T. -0.026 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion: 91 Resp: 368982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.4 | 35.7 | 53.5 |

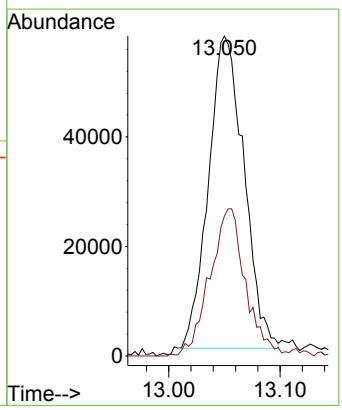


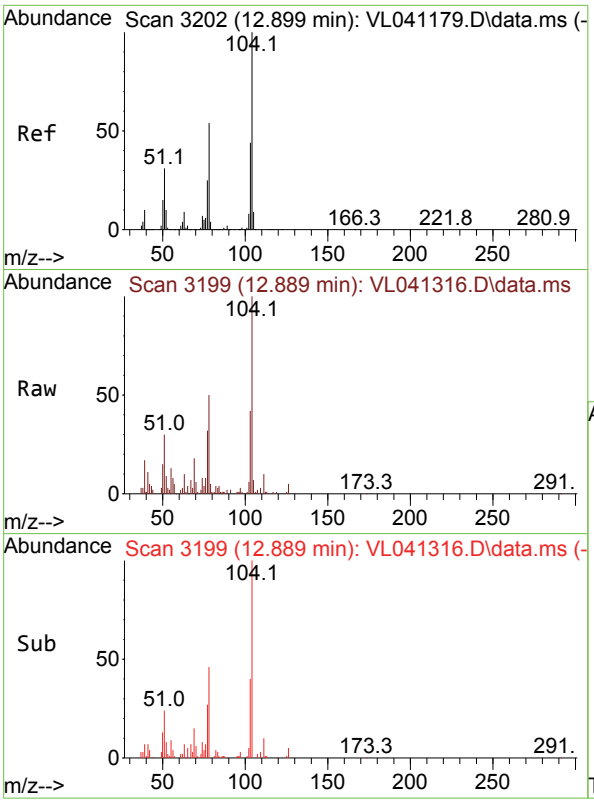




#60
o-Xylene
Concen: 0.598 ppbv
RT: 13.050 min Scan# 3249
Delta R.T. -0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 91 Resp: 126320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.1 | 22.8 | 68.4 |



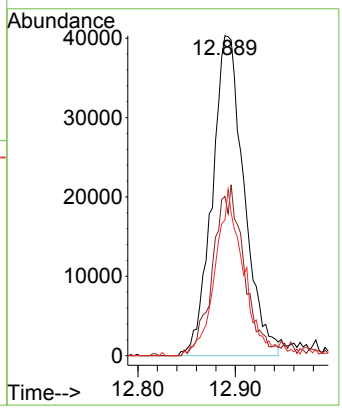


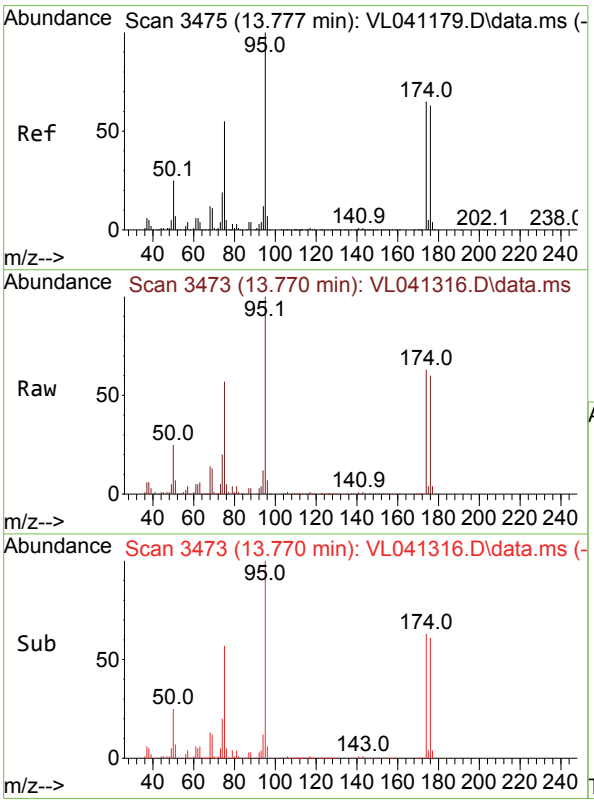

#61
Styrene
Concen: 0.884 ppbv
RT: 12.889 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:104 Resp: 91546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.5 | 42.2 | 63.4 |
| 103 | 46.8 | 37.9 | 56.9 |

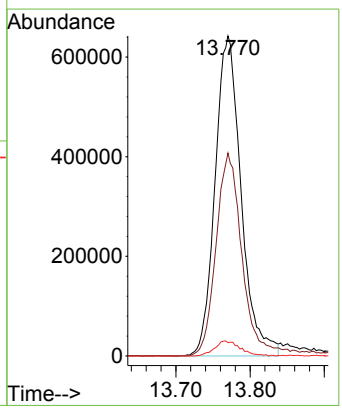


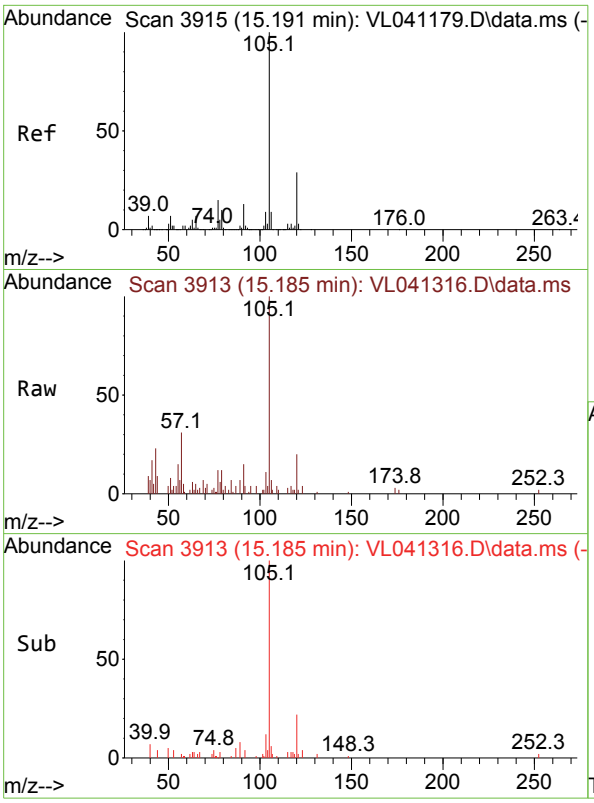




#68
1-Bromo-4-Fluorobenzene
Concen: 10.054 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion: 95 Resp: 1567002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.0 | 52.2 | 78.2 |
| 175 | 4.7 | 4.1 | 6.1 |



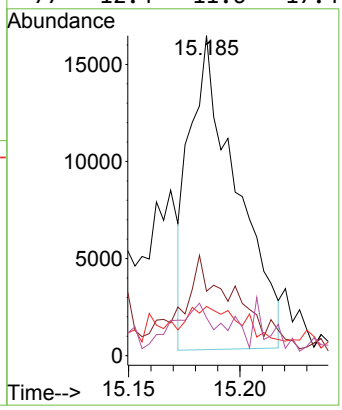


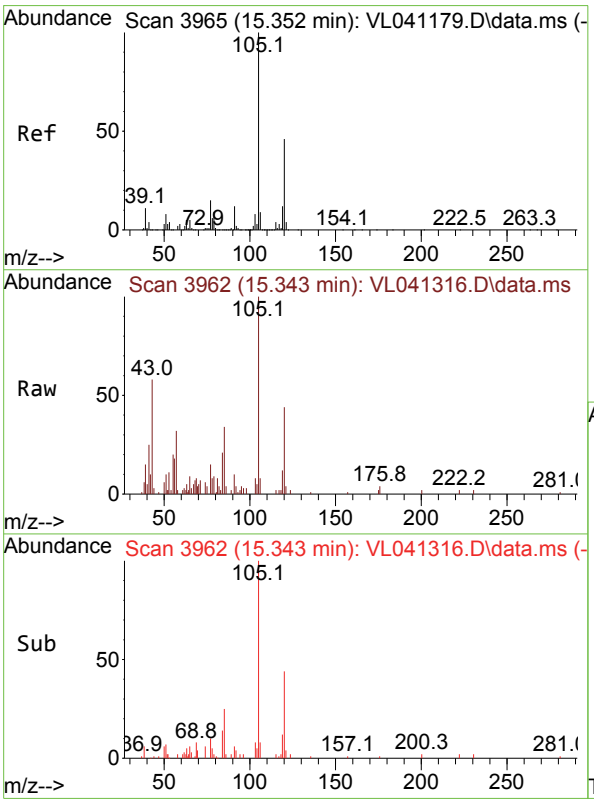

#72
4-Ethyltoluene
Concen: 0.096 ppbv
RT: 15.185 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:105 Resp: 23578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 23.7 | 35.5# |
| 91 | 34.5 | 10.6 | 16.0# |
| 77 | 12.4 | 11.6 | 17.4 |

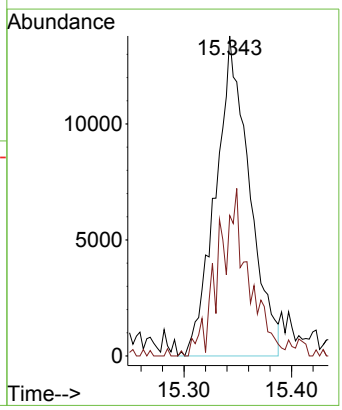


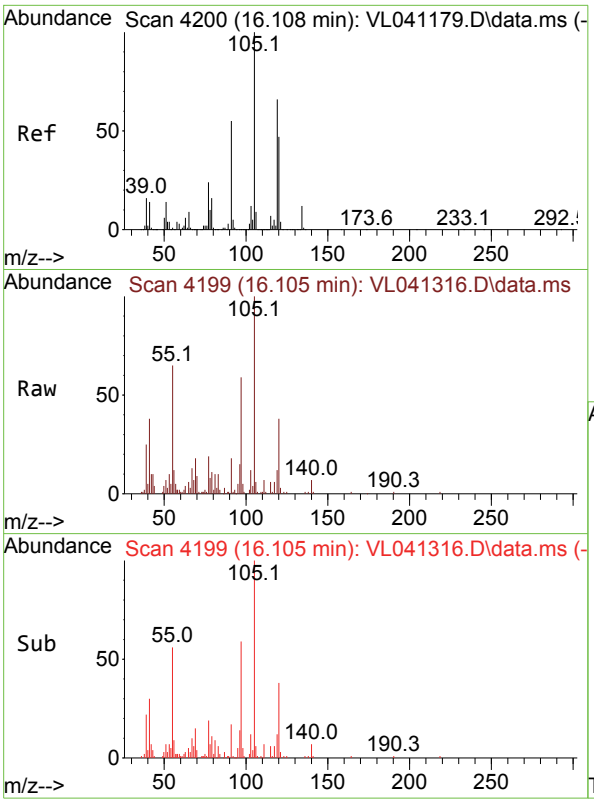




#73
1,3,5-Trimethylbenzene
Concen: 0.141 ppbv
RT: 15.343 min Scan# 3962
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

Tgt Ion:105 Resp: 30175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.9 | 37.8 | 56.8 |






#74
1,2,4-Trimethylbenzene
Concen: 0.166 ppbv
RT: 16.105 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL041316.D
Acq: 4 Jun 2024 23:17

**Instrument :**
MSVOA_L
**ClientSampleId :**
IA1

Tgt Ion:105 Resp: 40094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 35.5 | 37.0 | 55.6# |
| 91 | 15.7 | 36.2 | 54.4# |
| 77 | 16.6 | 16.6 | 24.8 |