Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052124\
Data File : VX041584.D
Acq On : 21 May 2024 13:15
Operator : JC/MD
Sample : P2545-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Quant Time: May 22 02:54:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
Response via : Initial Calibration

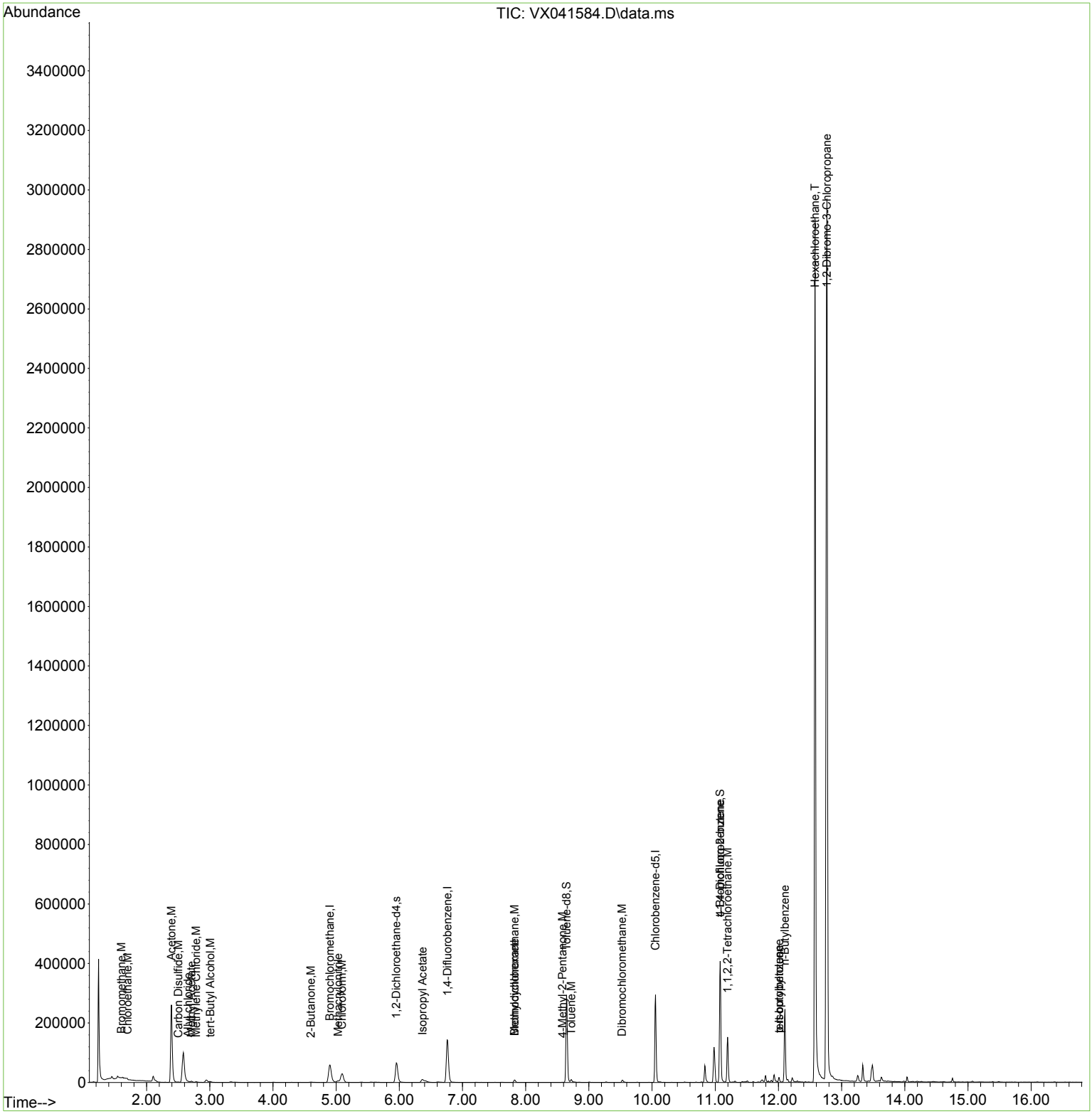
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 4.897 | 128 | 28095 | 30.000 | ug/l | 0.00 |
| 28) 1,4-Difluorobenzene | 6.763 | 114 | 155647 | 30.000 | ug/l | 0.00 |
| 57) Chlorobenzene-d5 | 10.055 | 117 | 141160 | 30.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 27) 1,2-Dichloroethane-d4 | 5.952 | 65 | 66848 | 30.214 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 91 - 110 | | Recovery = 100.700% | | | |
| 60) 4-Bromofluorobenzene | 11.079 | 95 | 66876 | 30.348 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 63 - 112 | | Recovery = 101.167% | | | |
| 63) Toluene-d8 | 8.647 | 98 | 177435 | 29.323 | ug/l | 0.00 |
| Spiked Amount 30.000 | Range 91 - 112 | | Recovery = 97.733% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Bromomethane | 1.599 | 94 | 286 | 0.265 | ug/l | 91 |
| 6) Chloroethane | 1.697 | 64 | 1782 | 2.080 | ug/l # | 51 |
| 12) Methyl Acetate | 2.709 | 43 | 3855 | 1.781 | ug/l | 93 |
| 15) Acetone | 2.392 | 58 | 85070 | 333.585 | ug/l | 98 |
| 16) Carbon Disulfide | 2.501 | 76 | 970 | 0.299 | ug/l # | 74 |
| 17) Allyl chloride | 2.654 | 41 | 1822 | 0.714 | ug/l # | 35 |
| 18) Methylene Chloride | 2.782 | 84 | 946 | 0.553 | ug/l # | 76 |
| 23) tert-Butyl Alcohol | 3.007 | 59 | 3926 | 9.720 | ug/l # | 100 |
| 25) Chloroform | 5.092 | 83 | 35558 | 11.096 | ug/l | 94 |
| 30) 2-Butanone | 4.599 | 43 | 1190 | 0.871 | ug/l # | 95 |
| 35) Methacrylonitrile | 5.031 | 41 | 1677 | 1.216 | ug/l # | 46 |
| 38) Methylcyclohexane | 7.824 | 83 | 5679 | 2.172 | ug/l # | 18 |
| 41) Bromodichloromethane | 7.824 | 83 | 5875 | 2.587 | ug/l # | 99 |
| 44) Isopropyl Acetate | 6.367 | 43 | 4797 | 1.203 | ug/l # | 58 |
| 53) Dibromochloromethane | 9.525 | 129 | 1572 | 0.821 | ug/l | 98 |
| 58) 4-Methyl-2-Pentanone | 8.580 | 43 | 1252 | 0.485 | ug/l # | 44 |
| 62) Toluene | 8.720 | 91 | 6188 | 0.881 | ug/l | 97 |
| 71) 1,1,2,2-Tetrachloroethane | 11.195 | 83 | 5611 | 2.105 | ug/l # | 36 |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75 | 33959 | 44.955 | ug/l # | 9 |
| 79) tert-butylbenzene | 12.012 | 119 | 7478 | 1.061 | ug/l | 70 |
| 82) p-Isopropyltoluene | 12.012 | 119 | 7478 | 1.037 | ug/l | 98 |
| 85) n-Butylbenzene | 12.103 | 91 | 4047 | 0.698 | ug/l | 74 |
| 86) Hexachloroethane | 12.579 | 117 | 503 | 0.414 | ug/l # | 2 |
| 88) 1,2-Dibromo-3-Chloropr... | 12.768 | 75 | 1631 | 2.787 | ug/l # | 1 |

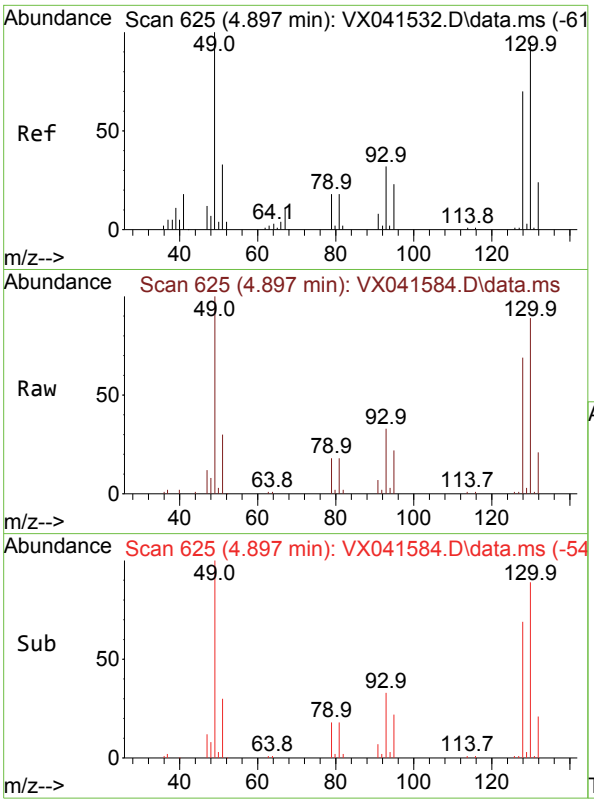
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052124\
Data File : VX041584.D
Acq On : 21 May 2024 13:15
Operator : JC/MD
Sample : P2545-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Quant Time: May 22 02:54:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
Response via : Initial Calibration



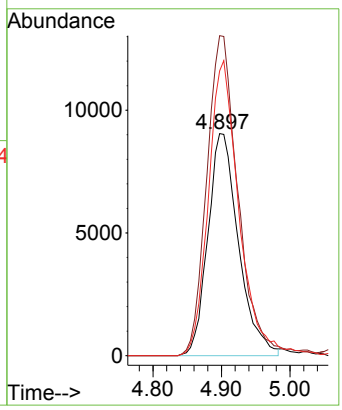


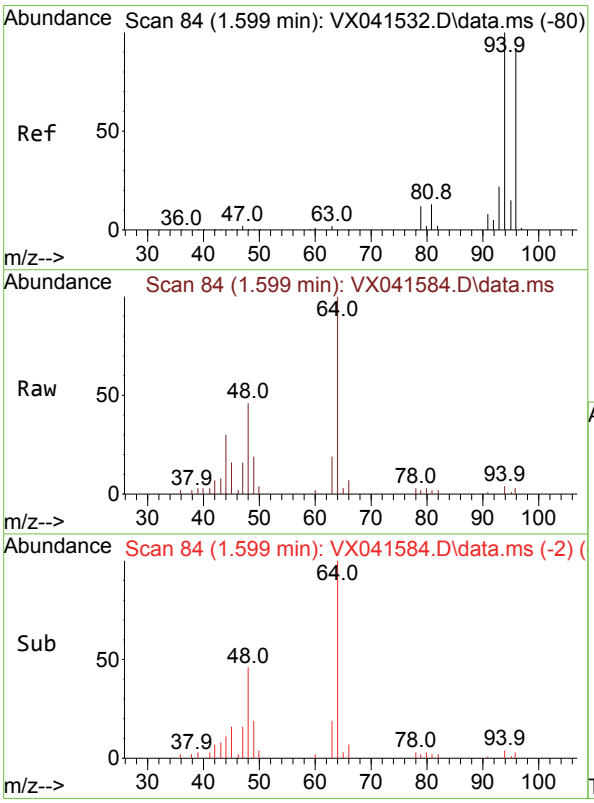

#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion:128 Resp: 28095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 49 | 147.2 | 0.0 | 361.5 |
| 130 | 131.7 | 0.0 | 324.3 |

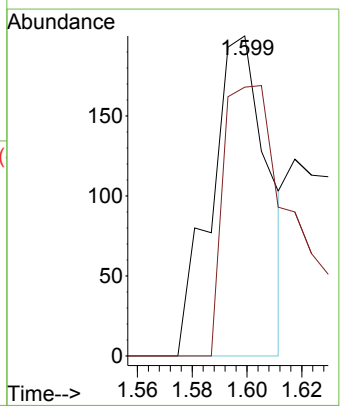


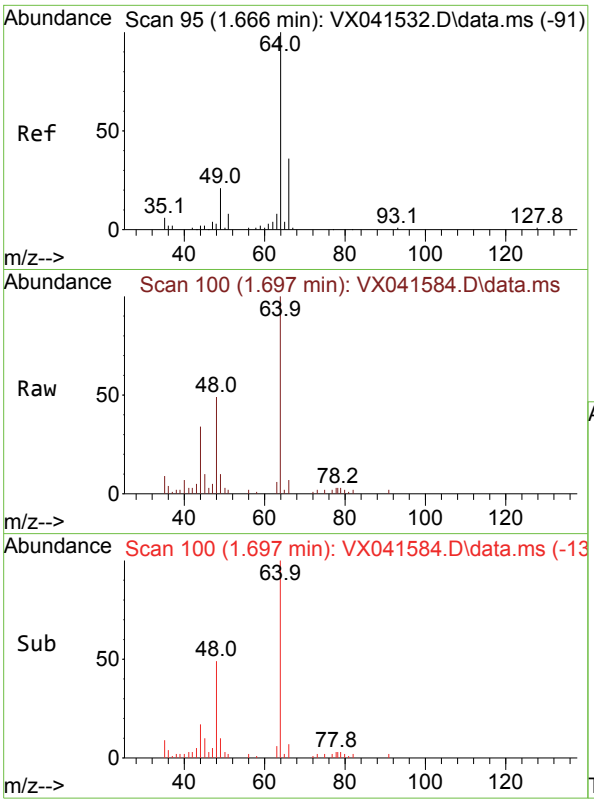




#5
Bromomethane
Concen: 0.265 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 94 Resp: 286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 84.0 | 73.9 | 110.9 |



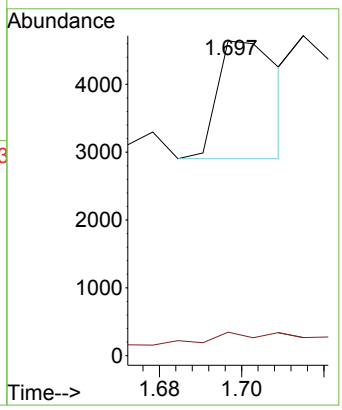


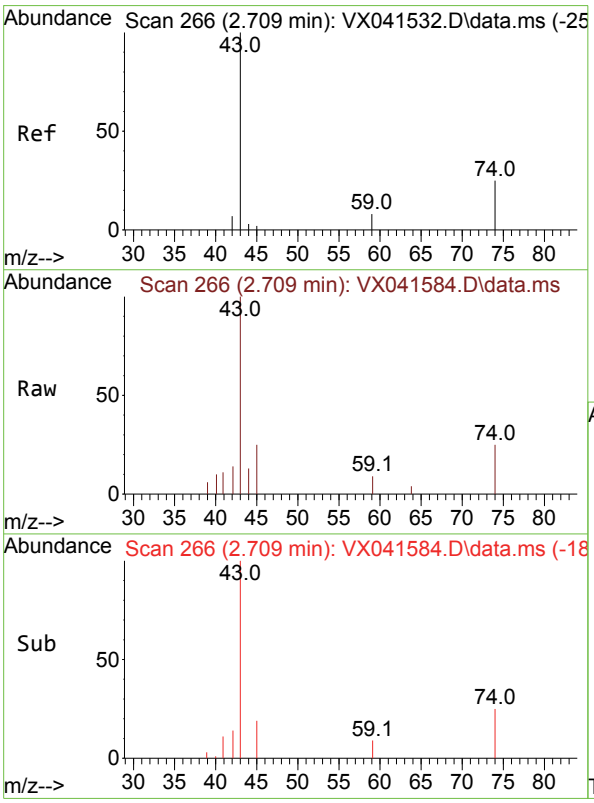

#6
Chloroethane
Concen: 2.080 ug/l
RT: 1.697 min Scan# 1
Delta R.T. 0.030 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 64 Resp: 1782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 7.2 | 28.6 | 42.8# |

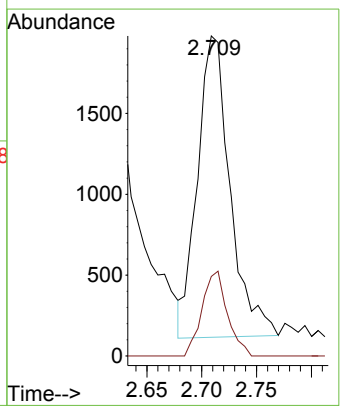


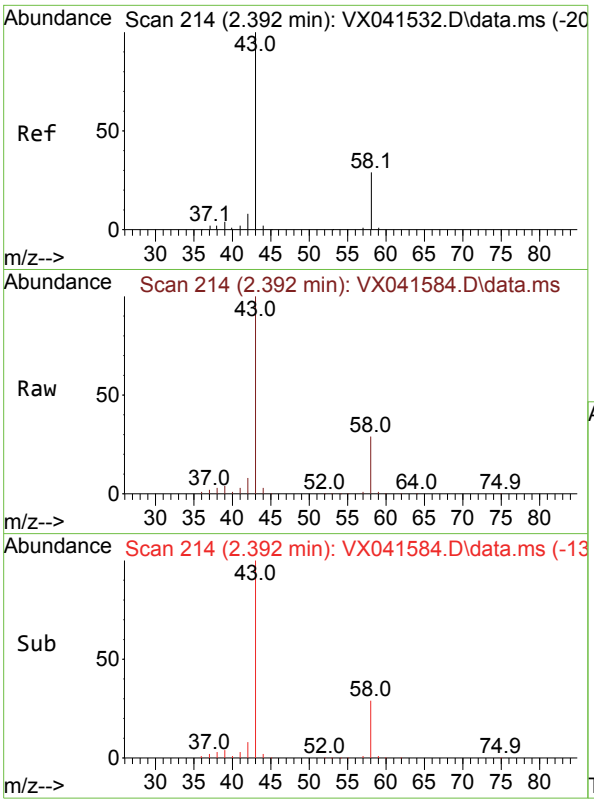




#12
Methyl Acetate
Concen: 1.781 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 43 Resp: 3855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.2 | 19.9 | 29.9 |



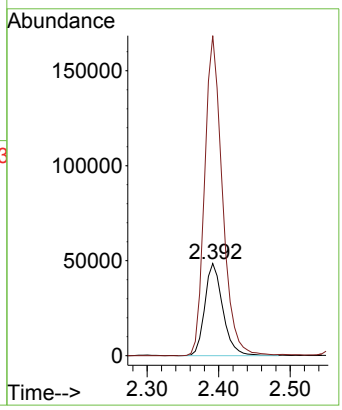


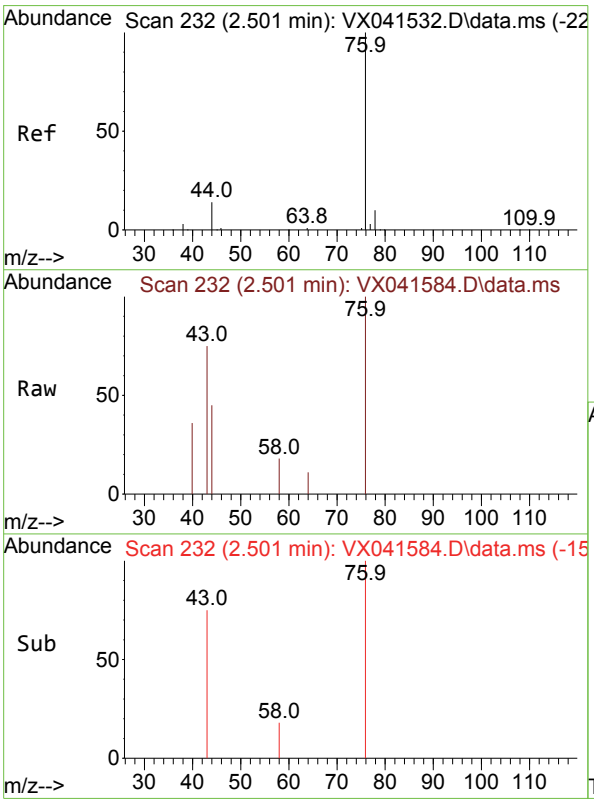

#15
Acetone
Concen: 333.585 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 58 Resp: 85070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 347.0 | 274.0 | 411.0 |

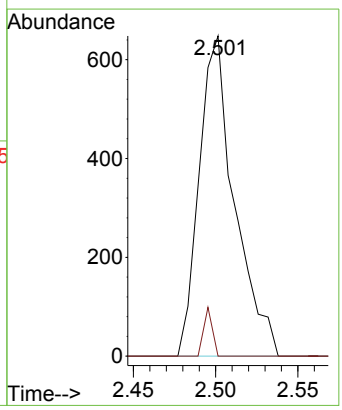


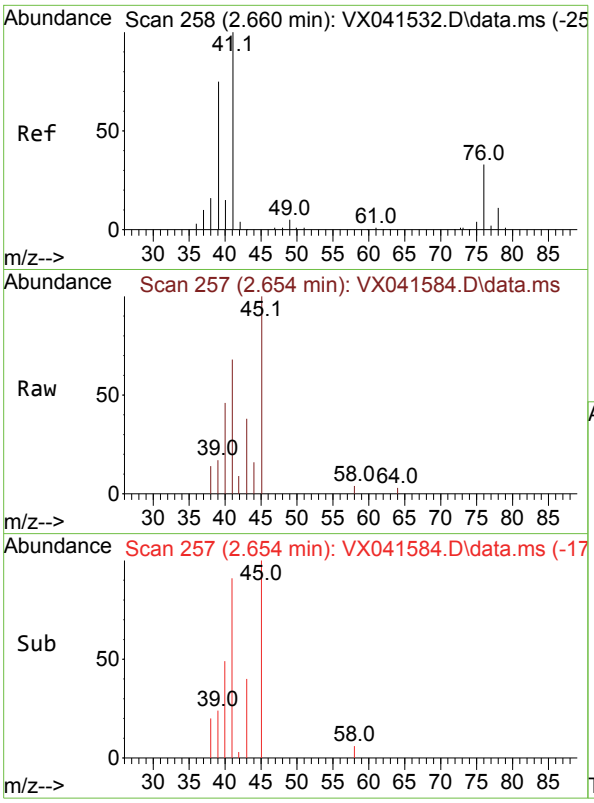




#16
Carbon Disulfide
Concen: 0.299 ug/l
RT: 2.501 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 76 Resp: 970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 7.6 | 11.4# |



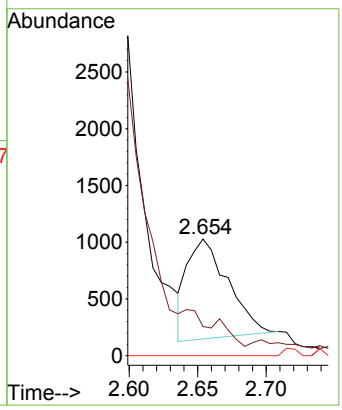


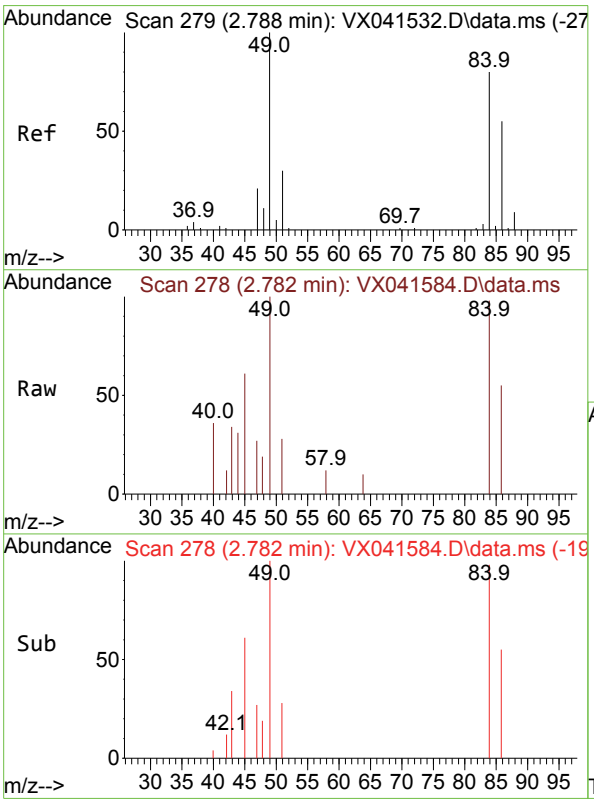

#17
Allyl chloride
Concen: 0.714 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 41 Resp: 1822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 17.6 | 37.5 | 112.7# |
| 76 | 0.0 | 16.6 | 49.8# |

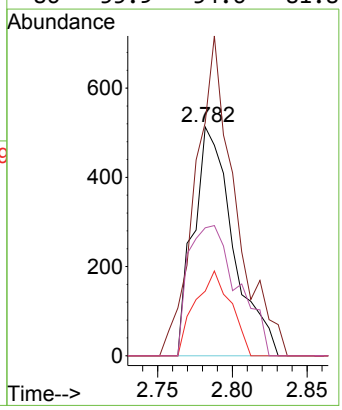


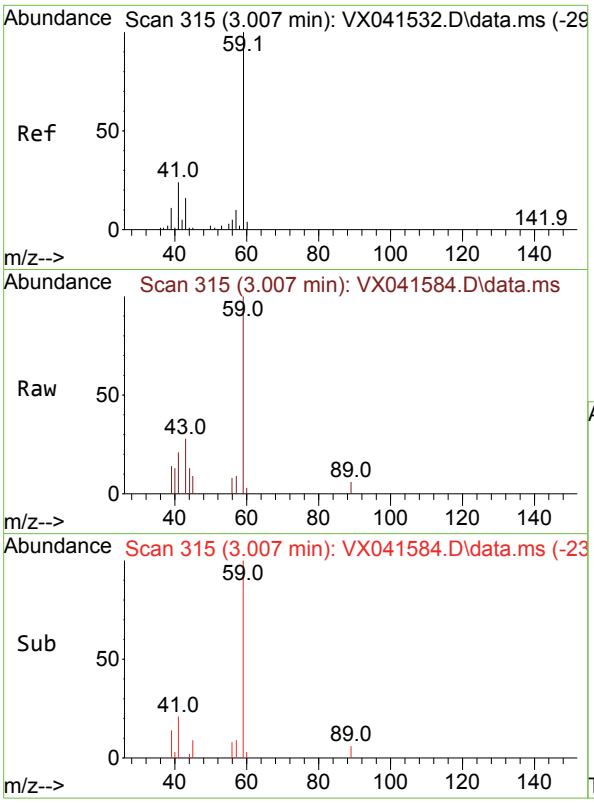




#18
Methylene Chloride
Concen: 0.553 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 84 Resp: 946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 88.3 | 99.8 | 149.8# |
| 51 | 28.3 | 30.2 | 45.4# |
| 86 | 55.9 | 54.6 | 81.8 |



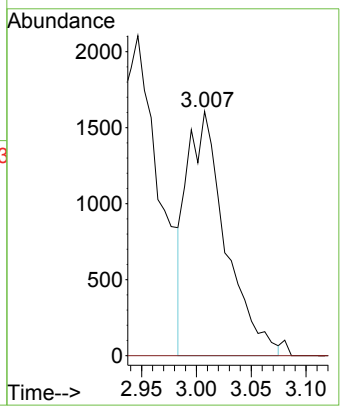


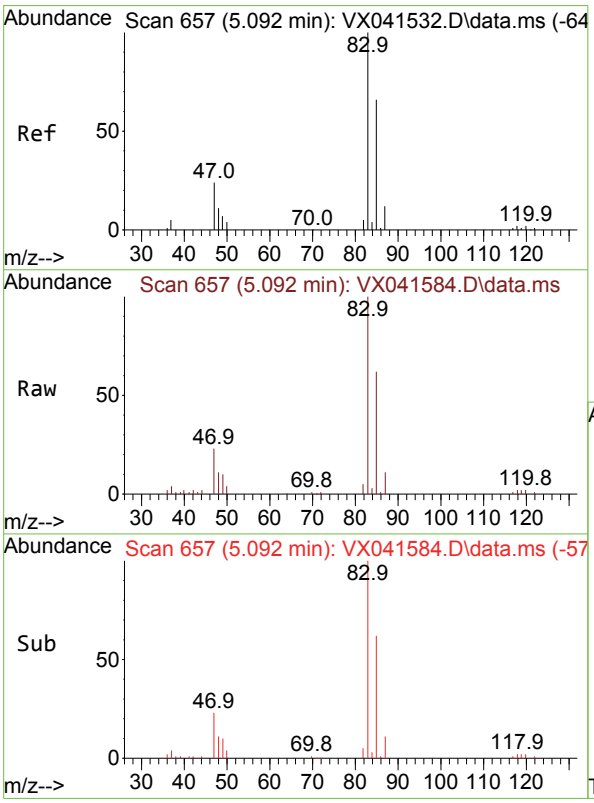

#23
tert-Butyl Alcohol
Concen: 9.720 ug/l
RT: 3.007 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 59 Resp: 3926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 52 | 0.0 | 0.0 | 0.0 |

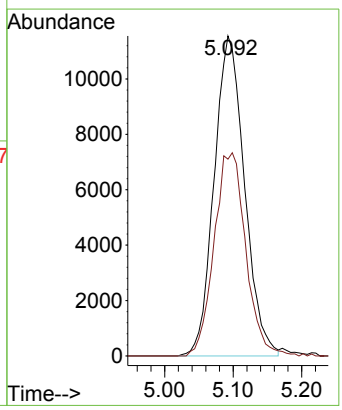


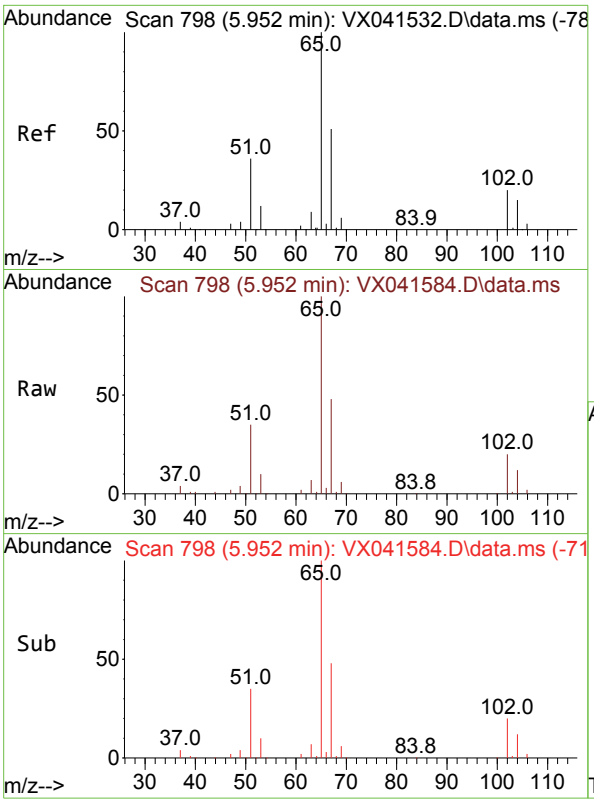




#25
Chloroform
Concen: 11.096 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 83 Resp: 35558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 52.9 | 79.3 |



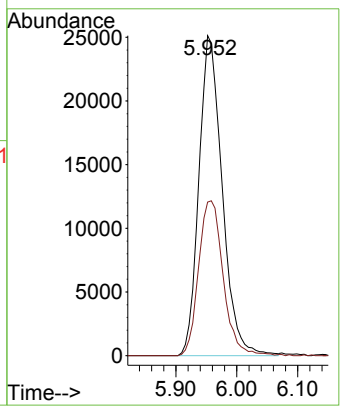


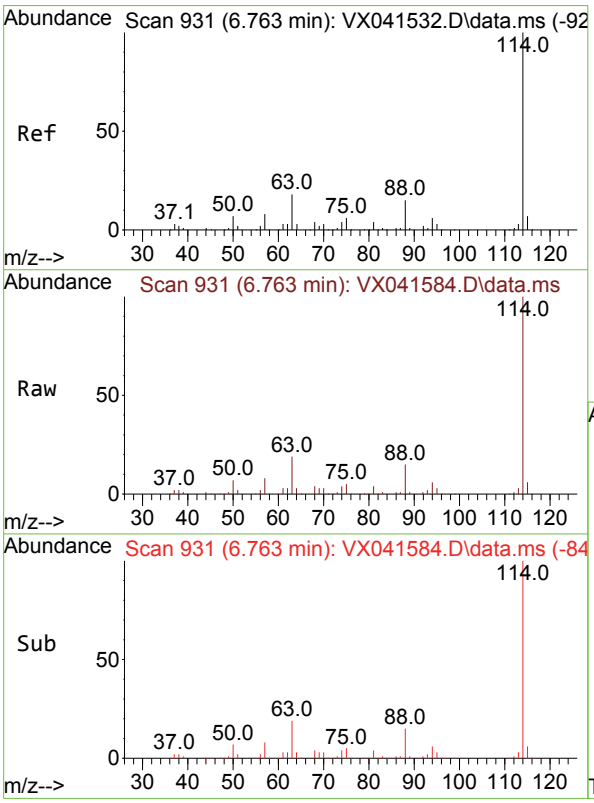

#27
1,2-Dichloroethane-d4
Concen: 30.214 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 65 Resp: 66848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.7 | 40.8 | 61.2 |

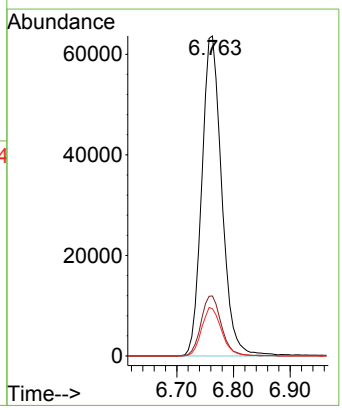


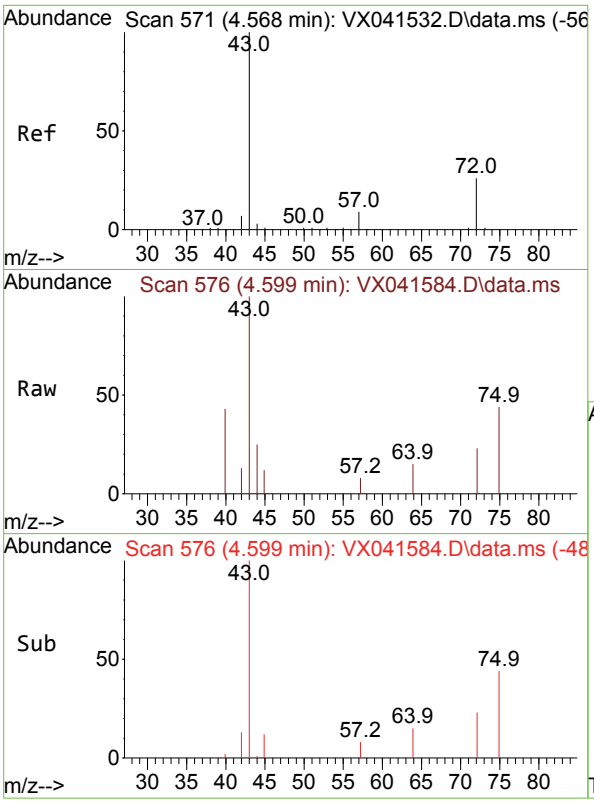




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion:114 Resp: 155647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 15.4 | 23.0 |
| 88 | 15.0 | 12.2 | 18.2 |



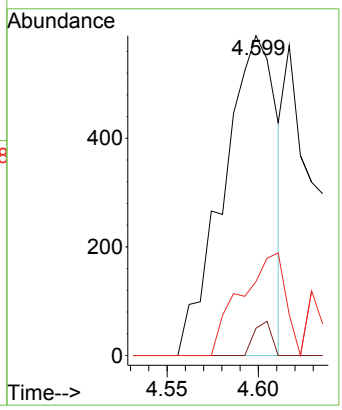


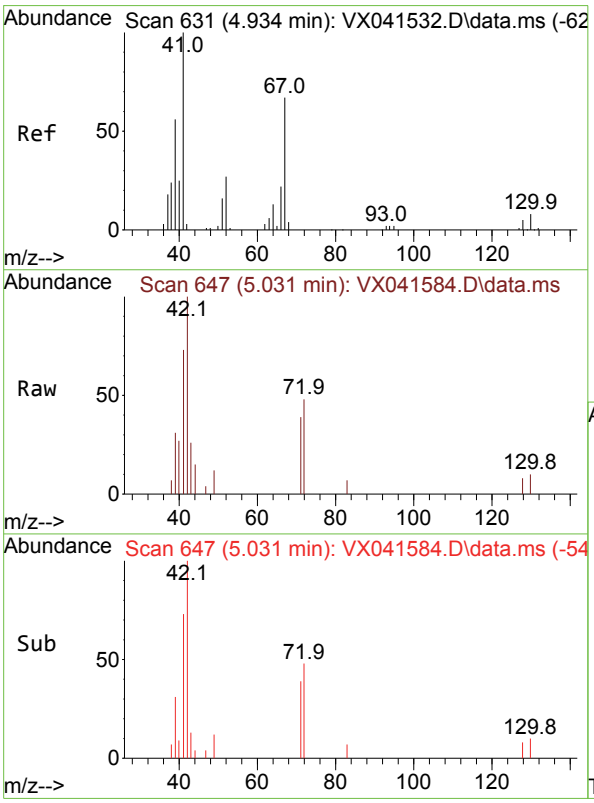

#30
2-Butanone
Concen: 0.871 ug/l
RT: 4.599 min Scan# 5
Delta R.T. 0.030 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 43 Resp: 1190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 3.4 | 6.6 | 10.0# |
| 72 | 27.0 | 20.7 | 31.1 |

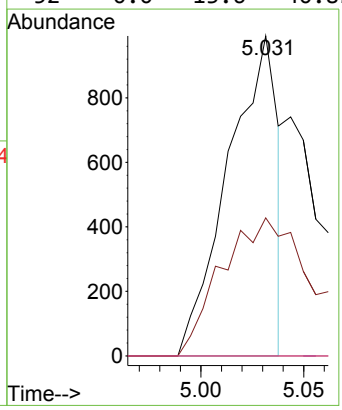


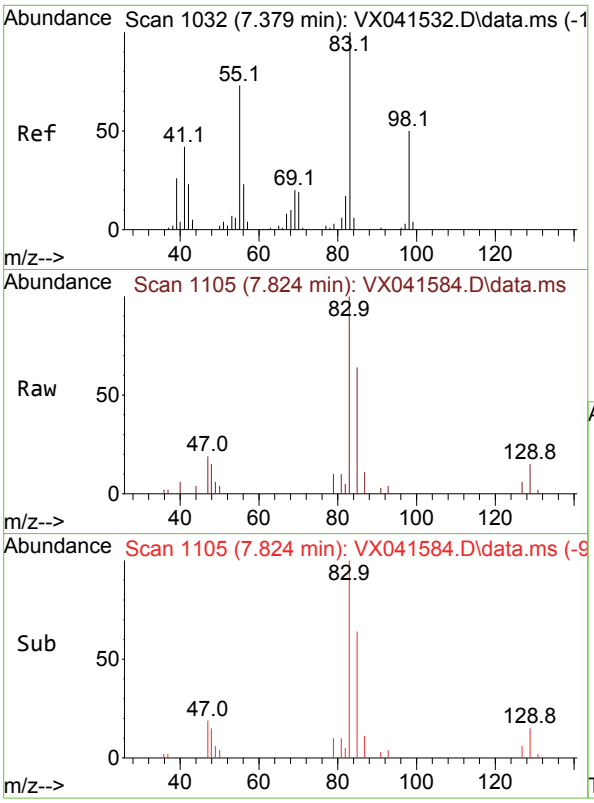




#35
Methacrylonitrile
Concen: 1.216 ug/l
RT: 5.031 min Scan# 647
Delta R.T. 0.098 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 41 Resp: 1677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 43.1 | 28.1 | 84.4 |
| 67 | 0.0 | 33.7 | 101.1# |
| 52 | 0.0 | 13.6 | 40.8# |



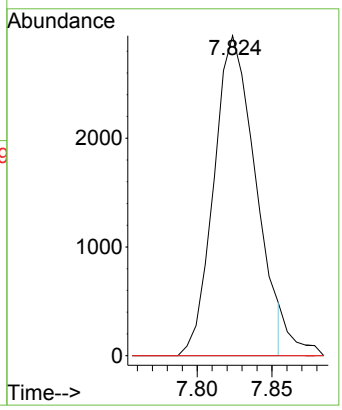


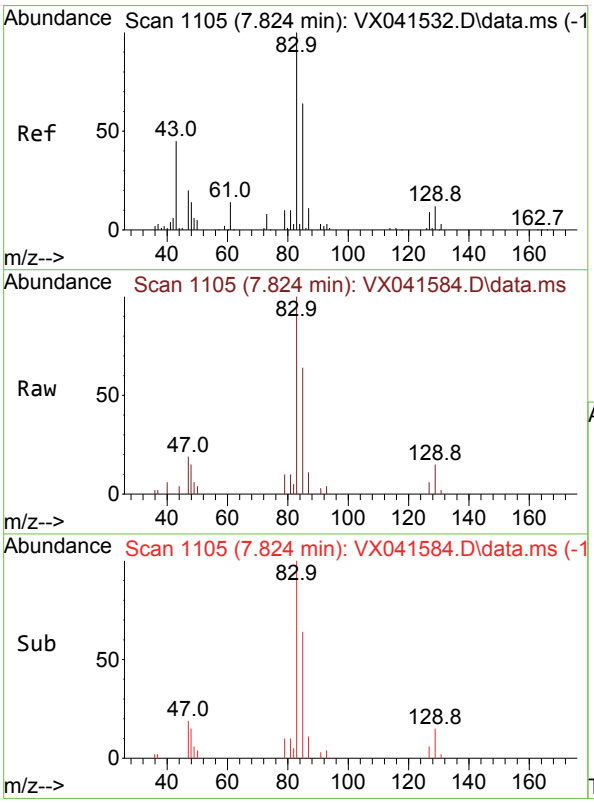

#38
Methylcyclohexane
Concen: 2.172 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.445 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 83 Resp: 5679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 0.0 | 37.7 | 113.1# |
| 98 | 0.0 | 25.1 | 75.3# |

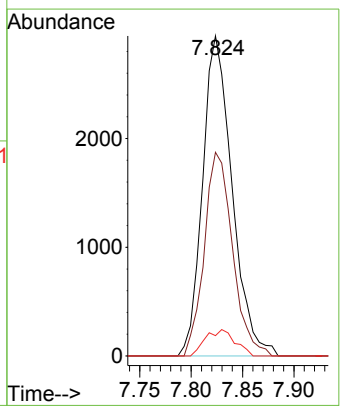


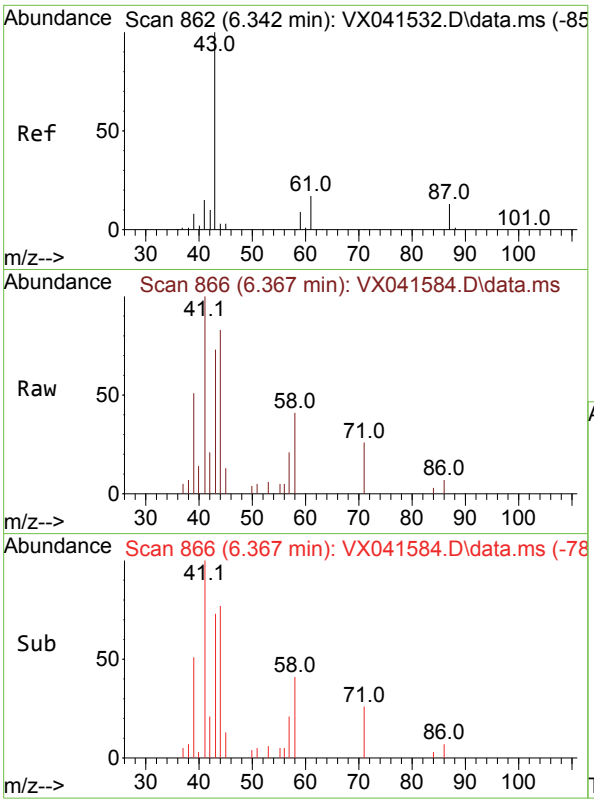




#41
Bromodichloromethane
Concen: 2.587 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 83 Resp: 5875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 51.0 | 76.4 |
| 127 | 6.4 | 7.1 | 10.7# |



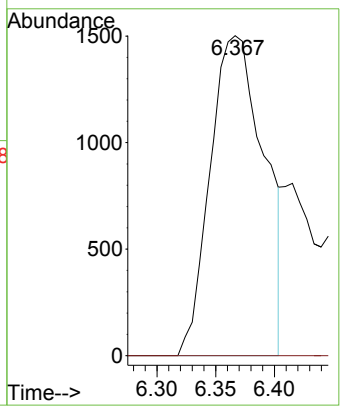


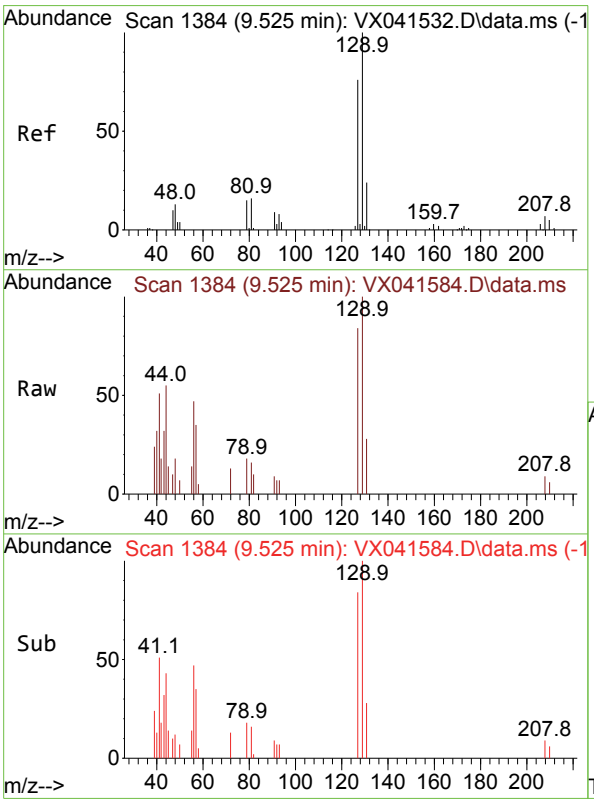

#44
Isopropyl Acetate
Concen: 1.203 ug/l
RT: 6.367 min Scan# 8
Delta R.T. 0.024 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 43 Resp: 4797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 15.3 | 22.9# |

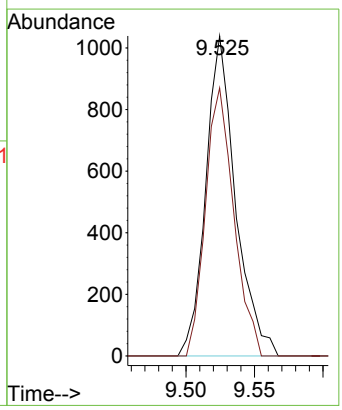


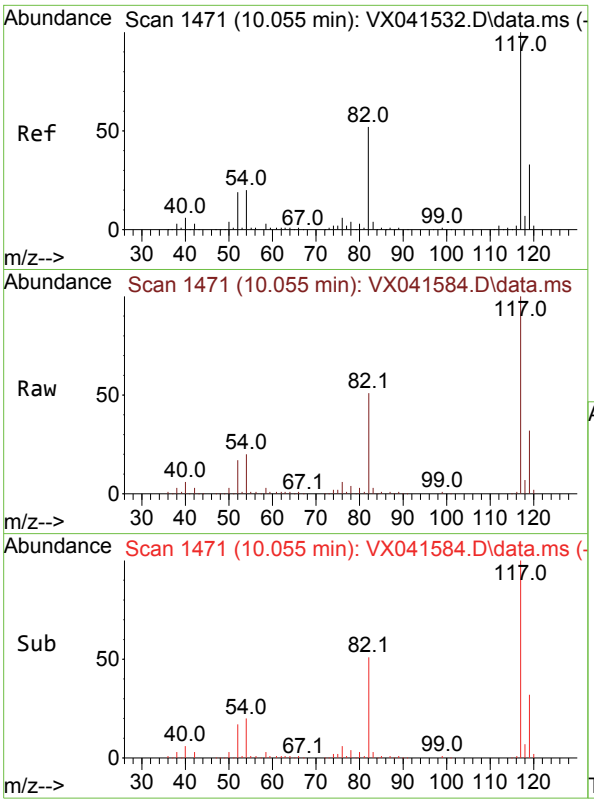




#53
Dibromochloromethane
Concen: 0.821 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion:129 Resp: 1572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.8 | 38.9 | 116.7 |



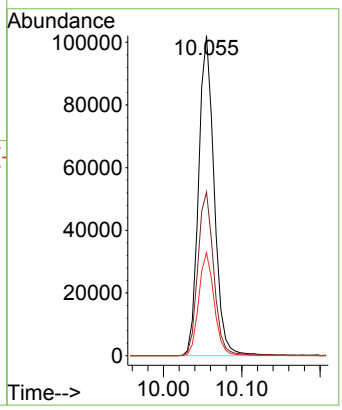


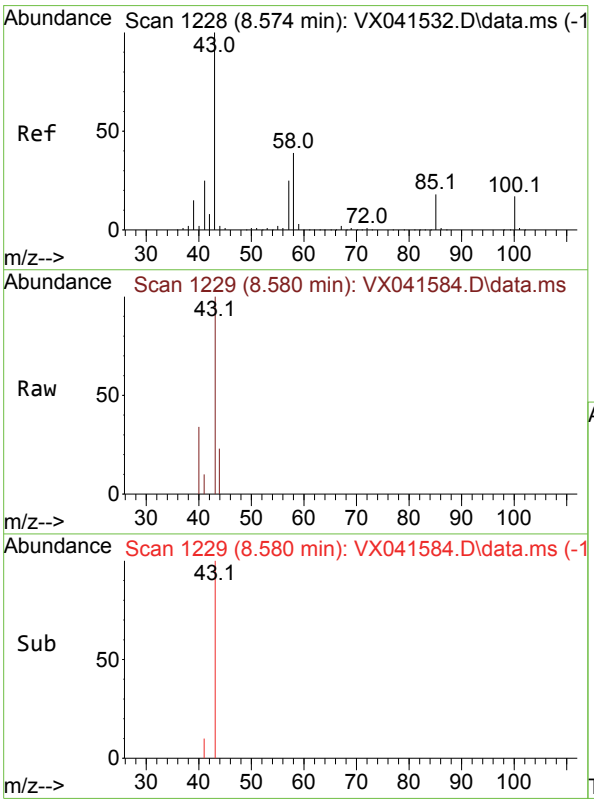

#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion:117 Resp: 141160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.0 | 41.7 | 62.5 |
| 119 | 31.9 | 25.7 | 38.5 |

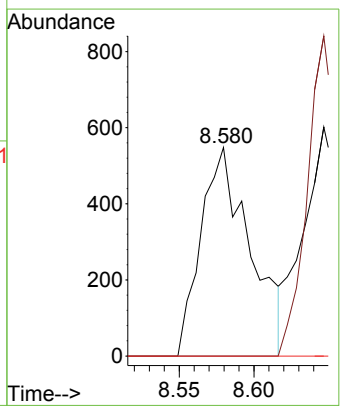


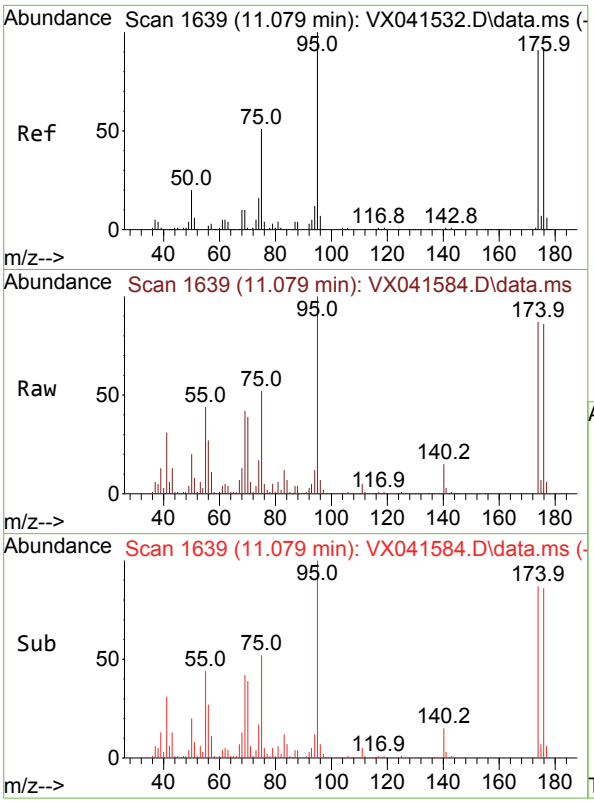




#58
4-Methyl-2-Pentanone
Concen: 0.485 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 43 Resp: 1252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 30.2 | 45.4# |
| 85 | 0.0 | 14.6 | 21.8# |



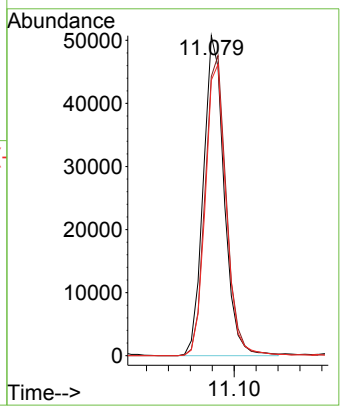


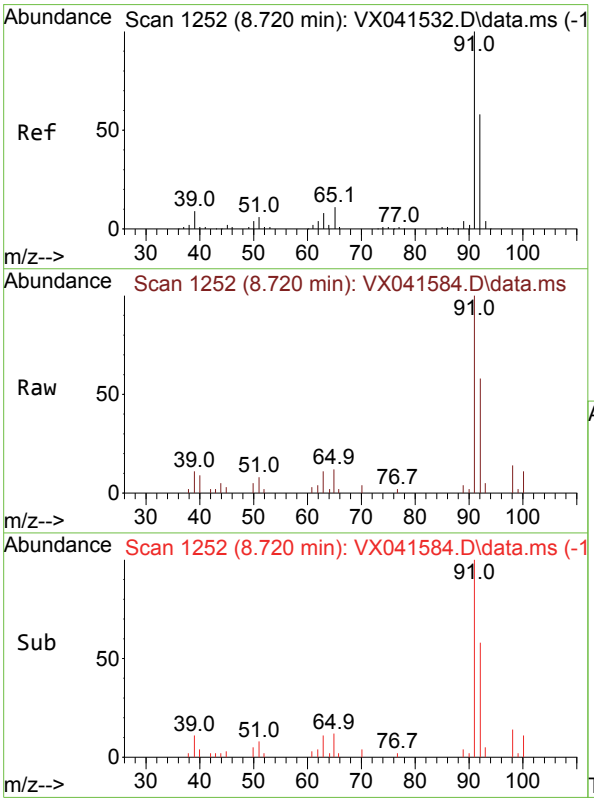

#60
4-Bromofluorobenzene
Concen: 30.348 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 95 Resp: 66876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 95.4 | 76.6 | 115.0 |
| 176 | 91.4 | 75.4 | 113.0 |

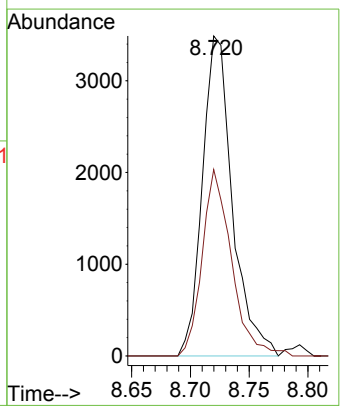


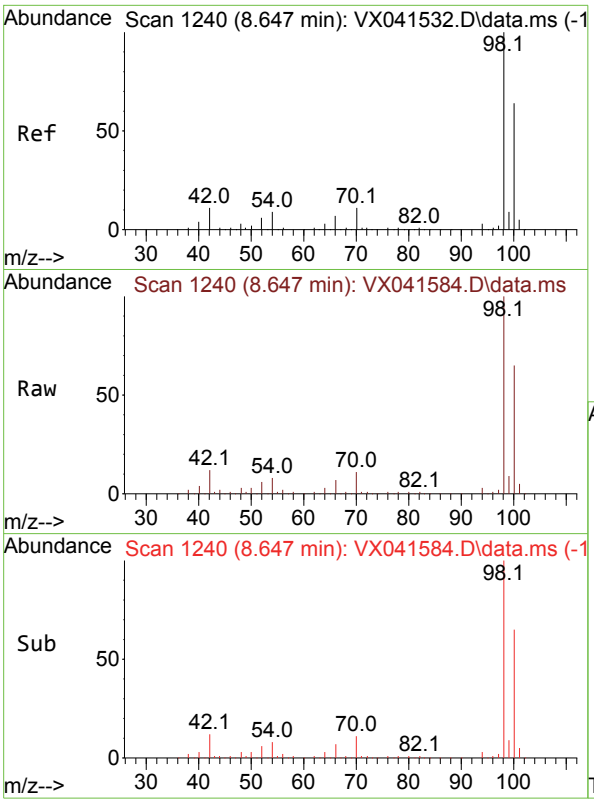




#62
Toluene
Concen: 0.881 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 91 Resp: 6188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.7 | 47.0 | 70.6 |



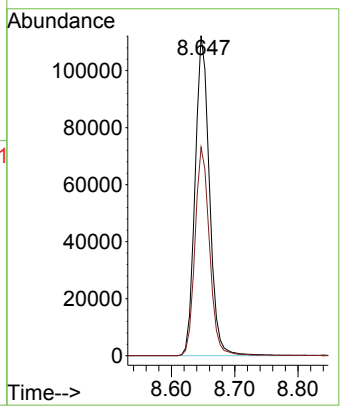


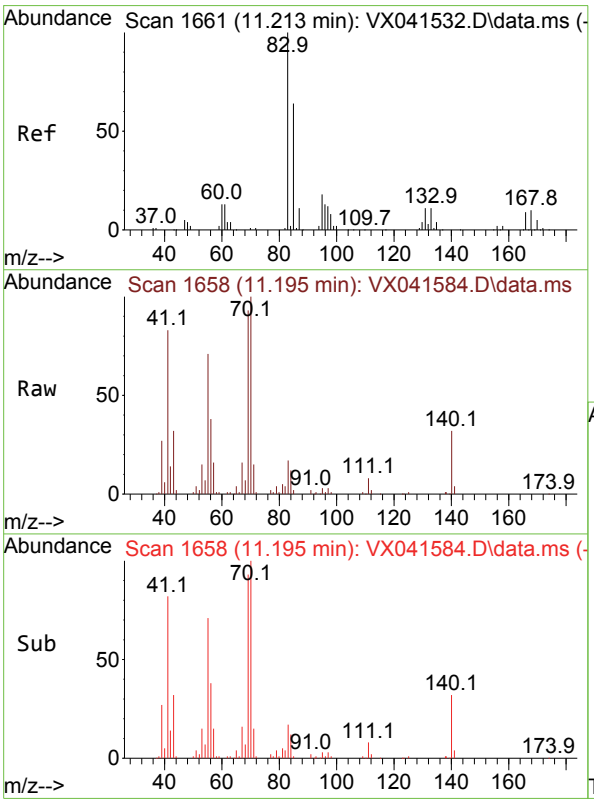

#63
Toluene-d8
Concen: 29.323 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 98 Resp: 177435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 53.1 | 79.7 |

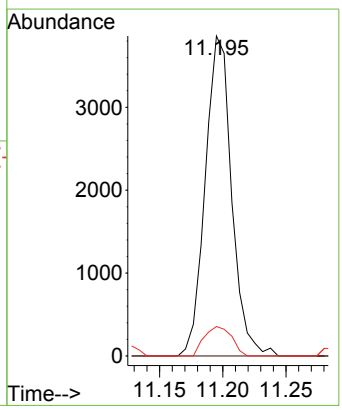


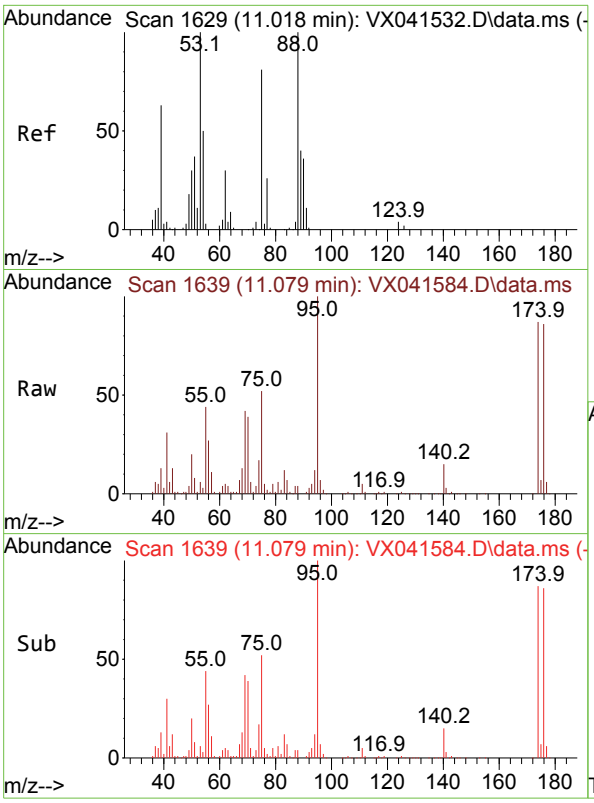




#71
1,1,2,2-Tetrachloroethane
Concen: 2.105 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.018 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 83 Resp: 5611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 0.0 | 5.7 | 17.0# |
| 85 | 9.5 | 32.3 | 96.8# |



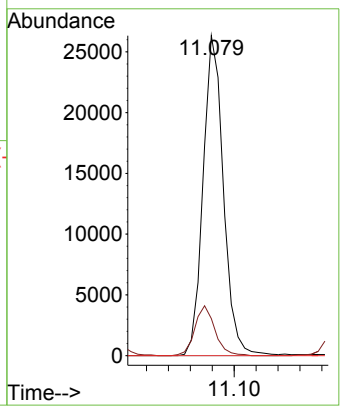


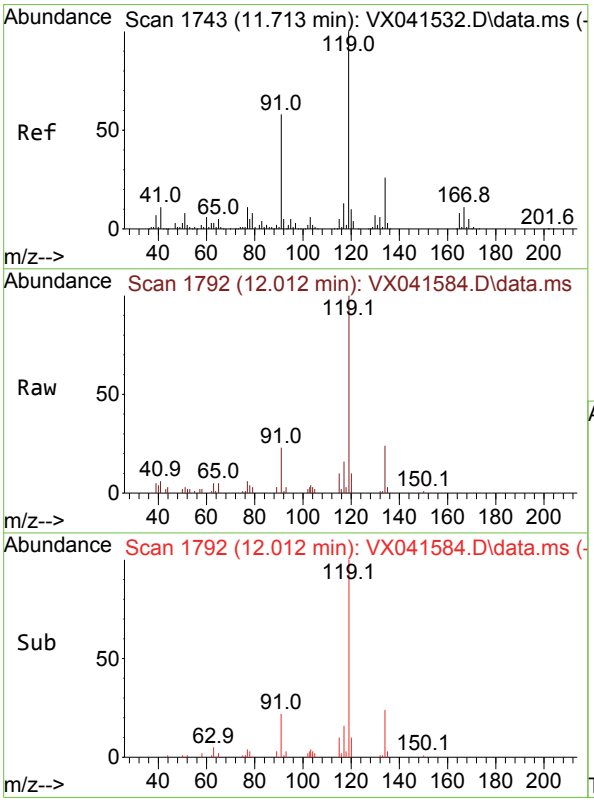

#77
t-1,4-Dichloro-2-butene
Concen: 44.955 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion: 75 Resp: 33959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 11.6 | 61.8 | 185.3# |
| 89 | 0.0 | 24.9 | 74.7# |

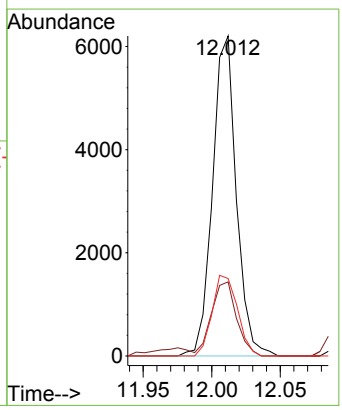


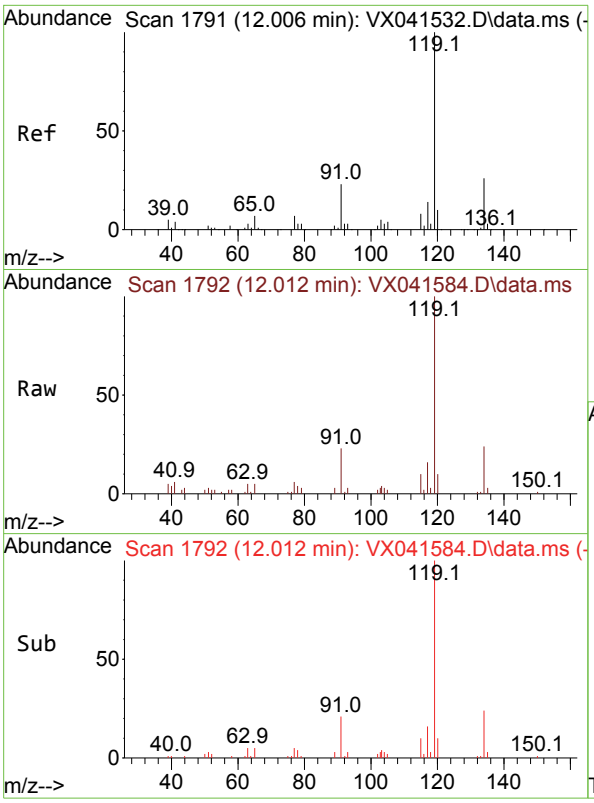




#79
tert-butylbenzene
Concen: 1.061 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion:119 Resp: 7478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 24.4 | 0.0 | 110.0 |
| 134 | 26.8 | 0.0 | 50.0 |



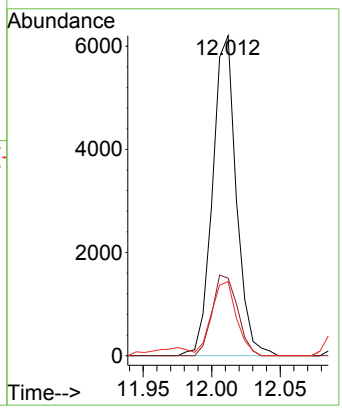


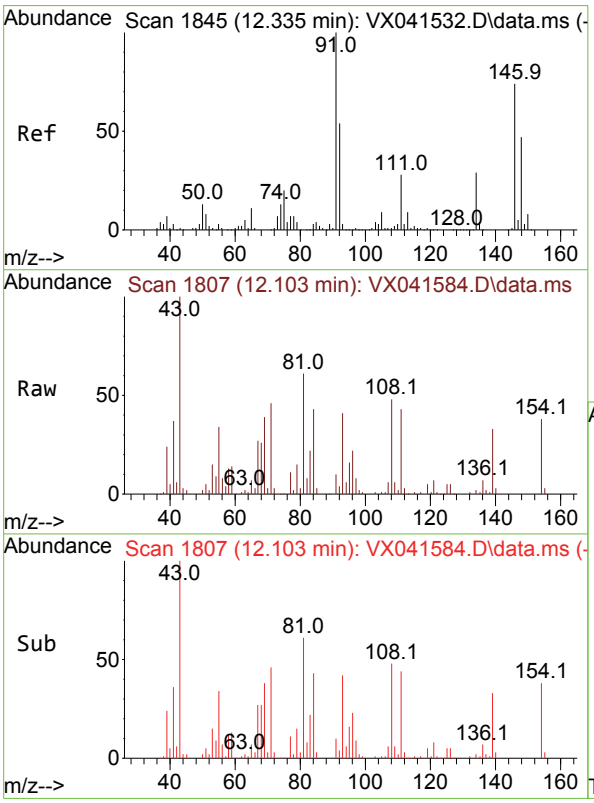

#82
p-Isopropyltoluene
Concen: 1.037 ug/l
RT: 12.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion:119 Resp: 7478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.8 | 0.0 | 53.4 |
| 91 | 24.4 | 0.0 | 44.8 |

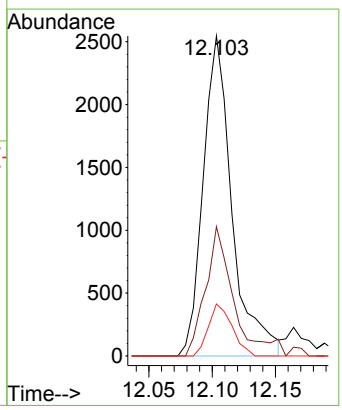


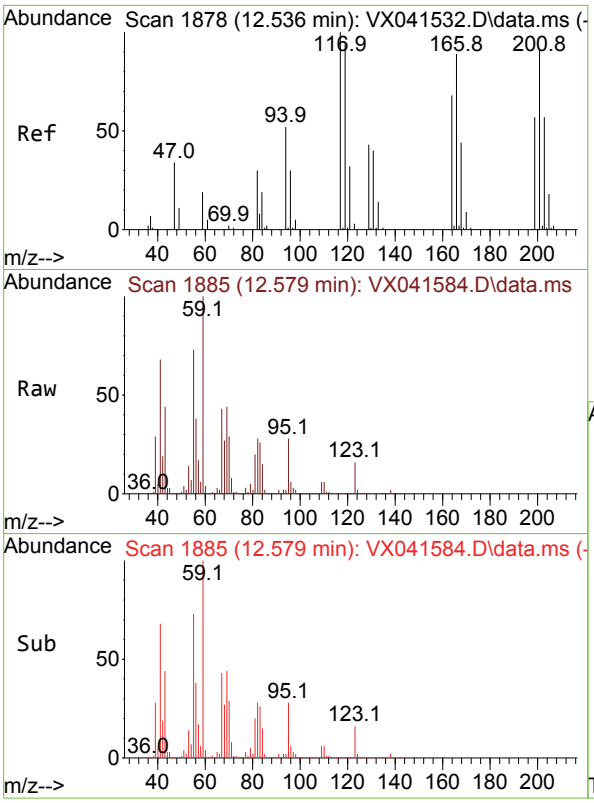




#85
n-Butylbenzene
Concen: 0.698 ug/l
RT: 12.103 min Scan# 1807
Delta R.T. -0.232 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 91 Resp: 4047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 35.9 | 0.0 | 108.4 |
| 134 | 13.3 | 0.0 | 56.6 |



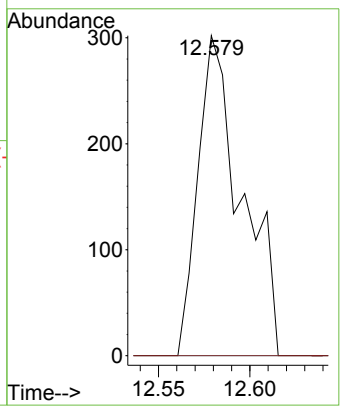


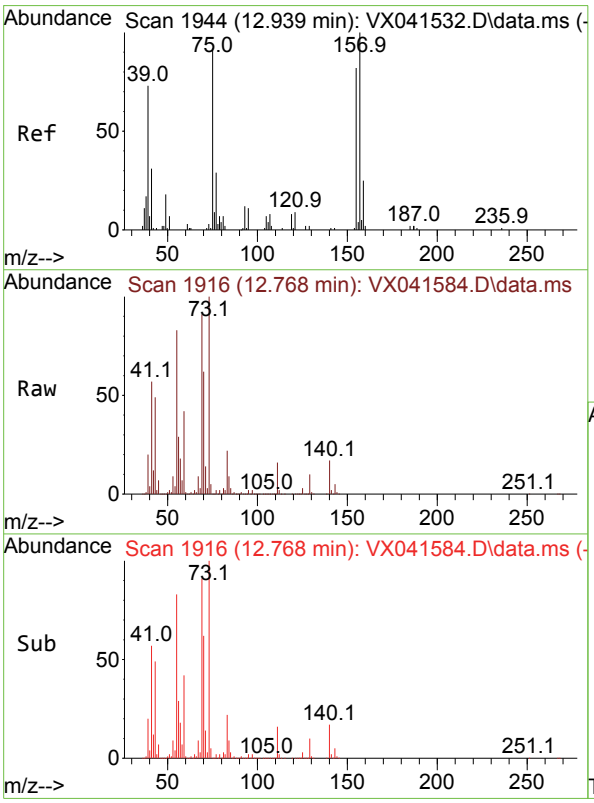

#86
Hexachloroethane
Concen: 0.414 ug/l
RT: 12.579 min Scan# 1
Delta R.T. 0.043 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
240515007-02

Tgt Ion:117 Resp: 503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 47.3 | 141.8# |




#88
1,2-Dibromo-3-Chloropropane
Concen: 2.787 ug/l
RT: 12.768 min Scan# 1916
Delta R.T. -0.171 min
Lab File: VX041584.D
Acq: 21 May 2024 13:15

Tgt Ion: 75 Resp: 1631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 0.0 | 80.4 | 120.6# |
| 157 | 0.0 | 102.2 | 153.2# |