

Data File : VU030276.D  
Acq On : 21 Mar 2019 19:21  
Operator : JC/SP  
Sample : K1967-17DL 40X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0966DL

Quant Time: Mar 22 05:18:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 05:14:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 544343   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 532778   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 257387   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 175696   | 47.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.46% |
| 7) Chloroethane-d5             | 1.68    | 69    | 144001   | 48.93    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.86% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 237865   | 35.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.84% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 250527   | 91.75    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.75% |
| 24) Chloroform-d               | 4.65    | 84    | 305018   | 45.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.30% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 179342   | 46.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.10% |
| 32) Benzene-d6                 | 5.34    | 84    | 669882   | 47.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.42% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 206678   | 47.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.16% |
| 41) Toluene-d8                 | 7.56    | 98    | 610893   | 46.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.56% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 92419    | 43.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.38% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 199916   | 88.74    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 297287   | 44.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.22% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 247329   | 47.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.72% |

#### Target Compounds

|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2560    | 0.700   | ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 2166    | 0.596   | ug/L # | 1      |
| 25) Chloroform                 | 4.67  | 83  | 26734   | 3.898   | ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.39  | 62  | 8205    | 1.688   | ug/L # | 72     |
| 33) Benzene                    | 5.39  | 78  | 1073447 | 69.834  | ug/L   | 100    |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 20302   | 5.157   | ug/L # | 88     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3430    | 0.628   | ug/L   | 97     |
| 48) 2-Hexanone                 | 8.36  | 43  | 6871    | 1.530   | ug/L # | 53     |
| 51) Chlorobenzene              | 9.12  | 112 | 842378  | 76.103  | ug/L   | 100    |
| 59) 1,2,3-Trichloropropane     | 11.41 | 75  | 36963   | 6.947   | ug/L # | 44     |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146 | 142922  | 17.404  | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 697473  | 81.883  | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146 | 905113  | 107.880 | ug/L   | 100    |
| 67) 1,3,5-Trichlorobenzene     | 13.50 | 180 | 87933   | 13.701  | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180 | 87933   | 15.494  | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180 | 40602   | 6.856   | ug/L   | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU032119\  
Quantitation Report (Not Reviewed)

Data File : VU030276.D  
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Instrument :  
MSVOA\_U  
ClientSampleId :  
C0966DL

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Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 05:14:44 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

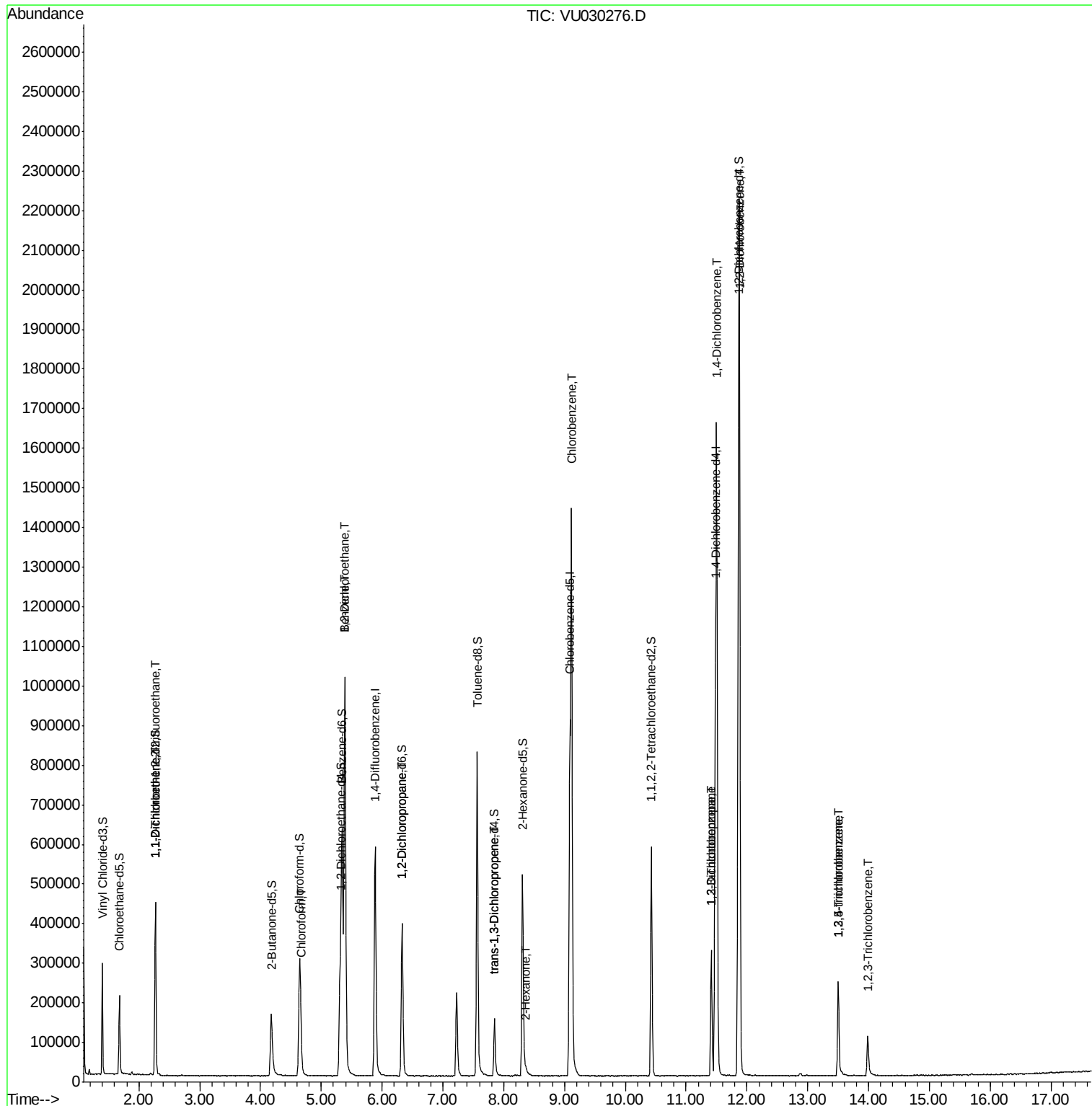
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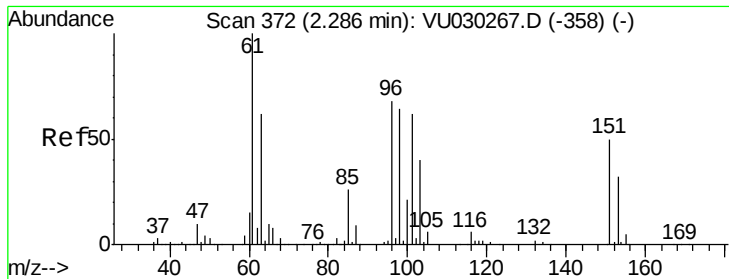
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : JC/SP  
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C0966DL

Quant Time: Mar 22 05:18:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 05:14:44 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.700 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

Instrument :

MSVOA\_U

ClientSampleId :

C0966DL

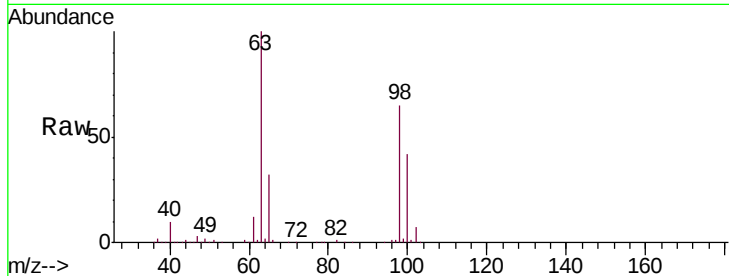
Tgt Ion: 101 Resp: 2560

Ion Ratio Lower Upper

101 100

85 0.0 32.5 48.7#

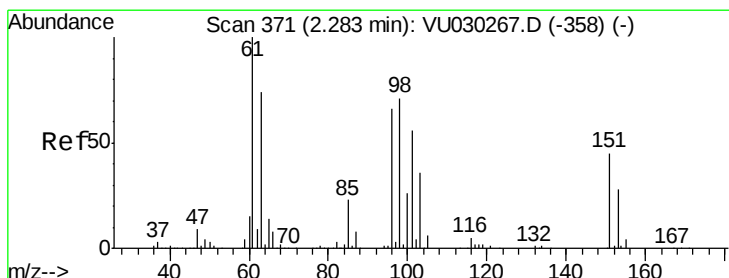
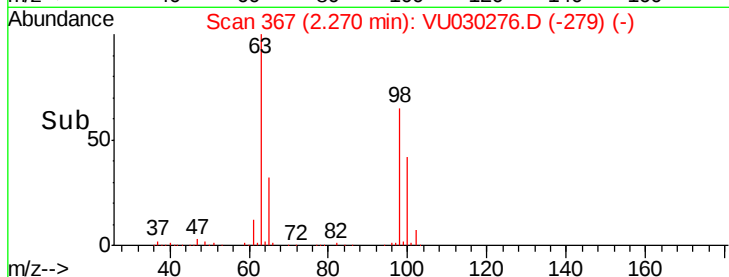
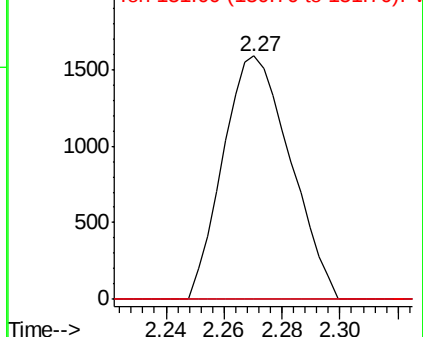
151 0.0 64.7 97.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.596 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

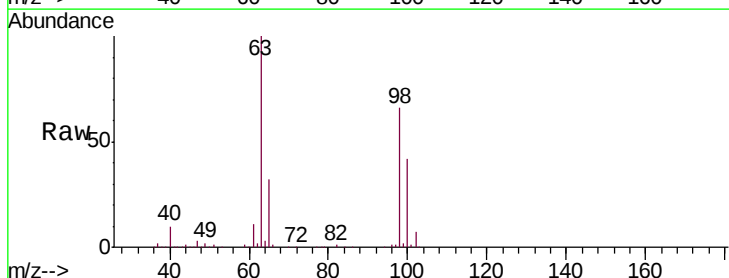
Tgt Ion: 96 Resp: 2166

Ion Ratio Lower Upper

96 100

61 1509.0 104.6 194.2#

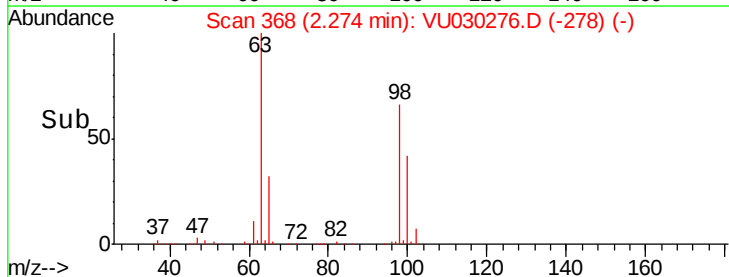
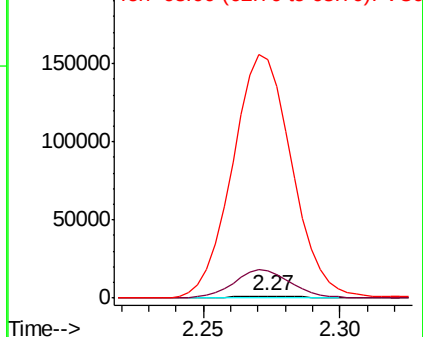
63 13163.8 77.2 143.4#

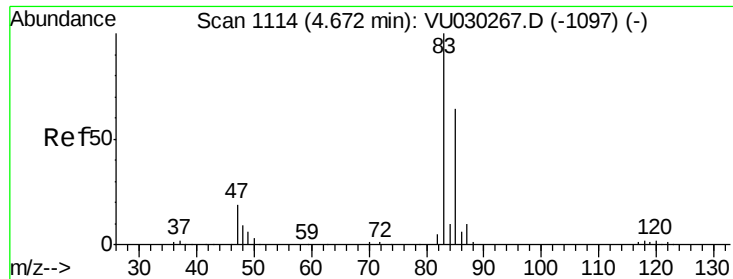


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

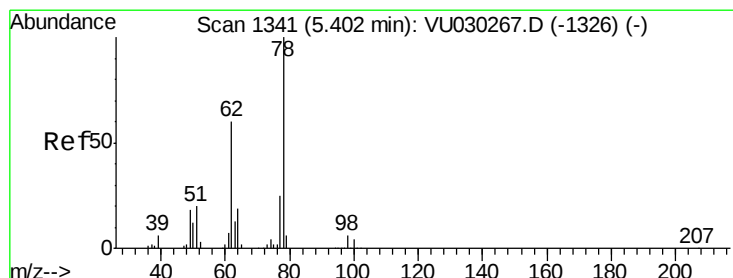
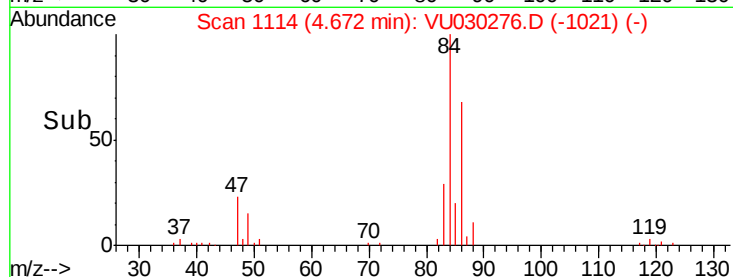
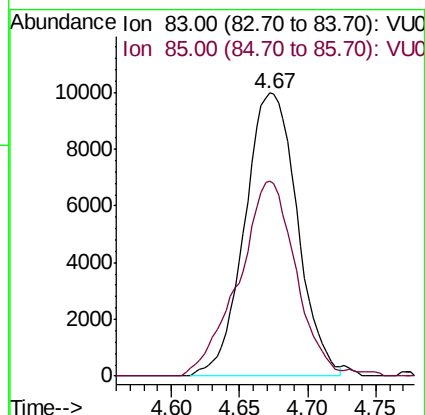
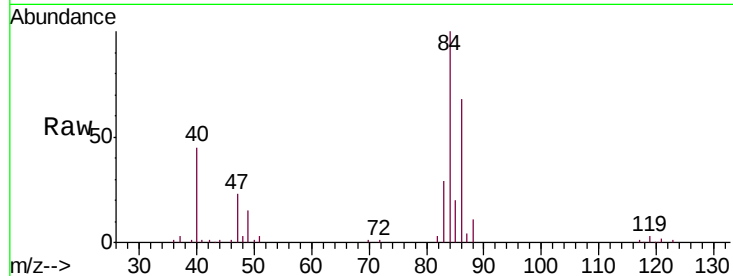




#25  
Chloroform  
Concen: 3.898 ug/L  
RT: 4.67 min Scan# 1114  
Delta R.T. 0.00 min  
Lab File: VU030276.D  
Acq: 21 Mar 2019 19:21

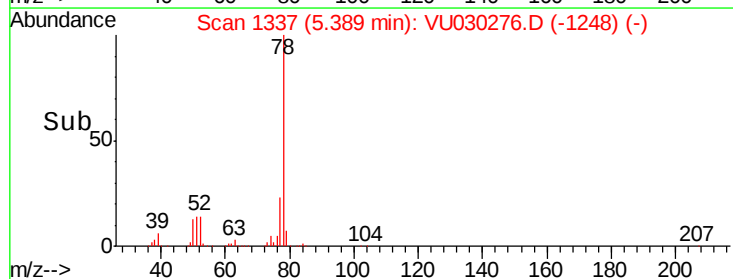
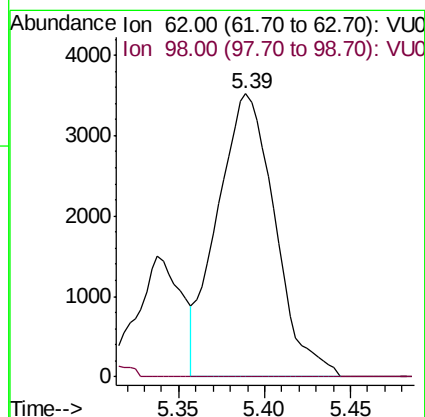
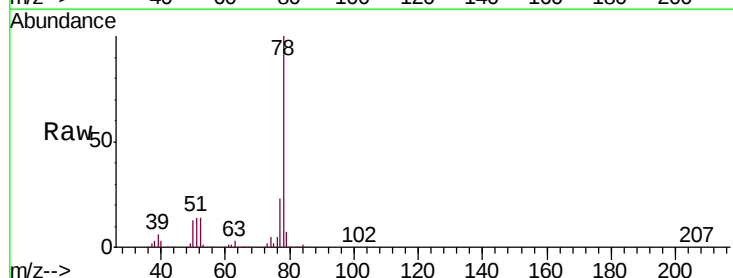
Instrument :  
MSVOA\_U  
ClientSampled :  
C0966DL

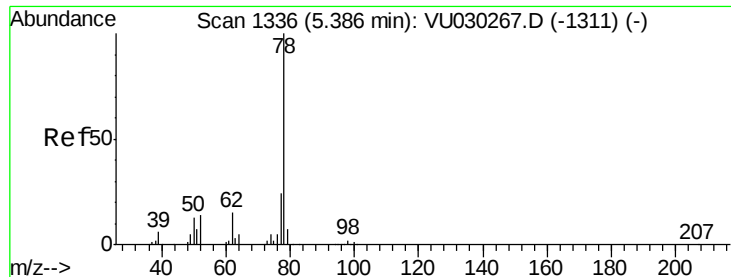
Tgt Ion: 83 Resp: 26734  
Ion Ratio Lower Upper  
83 100  
85 69.0 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 1.688 ug/L  
RT: 5.39 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: VU030276.D  
Acq: 21 Mar 2019 19:21

Tgt Ion: 62 Resp: 8205  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.6 12.8#





#33

Benzene

Concen: 69.834 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

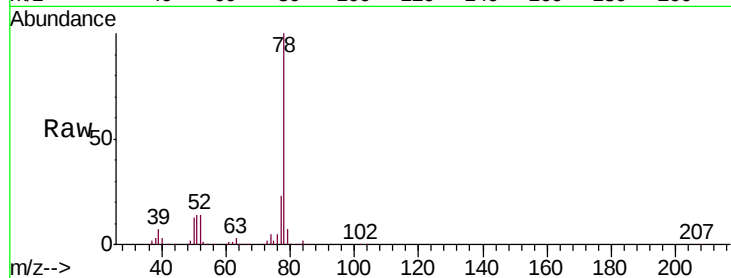
Instrument :

MSVOA\_U

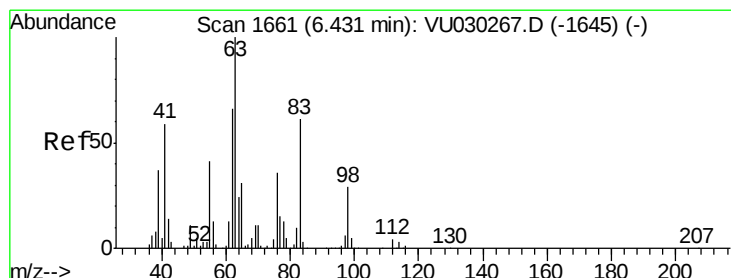
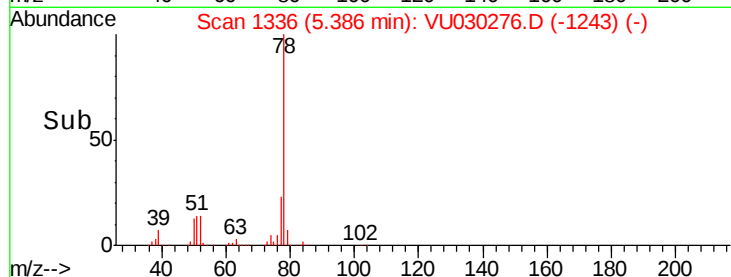
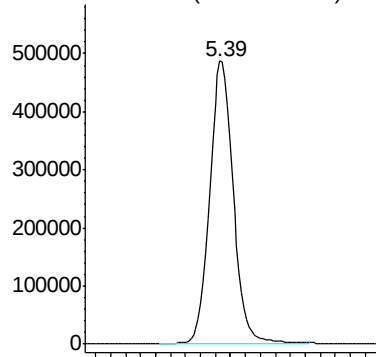
ClientSampleId :

C0966DL

Tgt Ion: 78 Resp: 1073447



Abundance Ion 78.00 (77.70 to 78.70): VU0



#37

1,2-Dichloropropane

Concen: 5.157 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.10 min

Lab File: VU030276.D

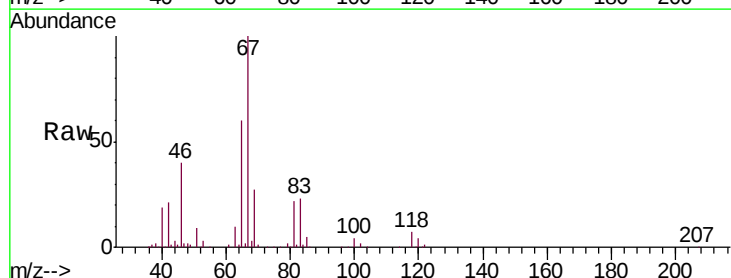
Acq: 21 Mar 2019 19:21

Tgt Ion: 63 Resp: 20302

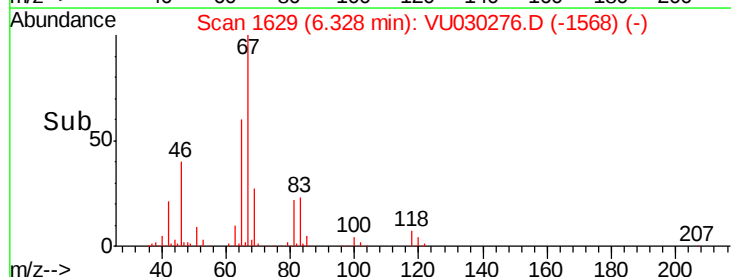
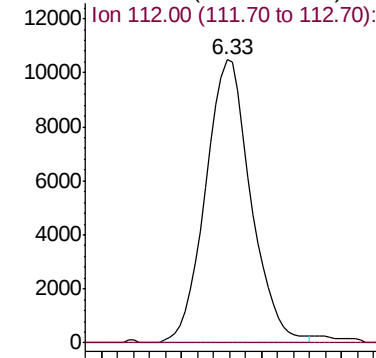
Ion Ratio Lower Upper

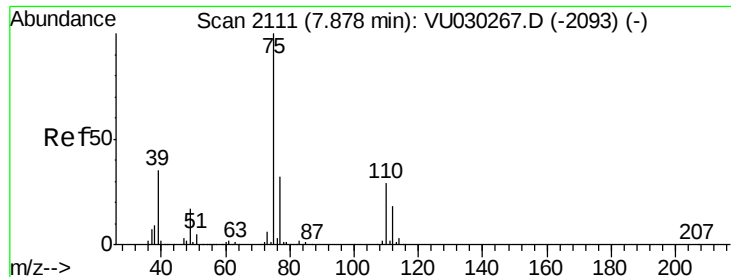
63 100

112 0.0 3.3 4.9#



Abundance Ion 63.00 (62.70 to 63.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.628 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

Instrument :

MSVOA\_U

ClientSampleId :

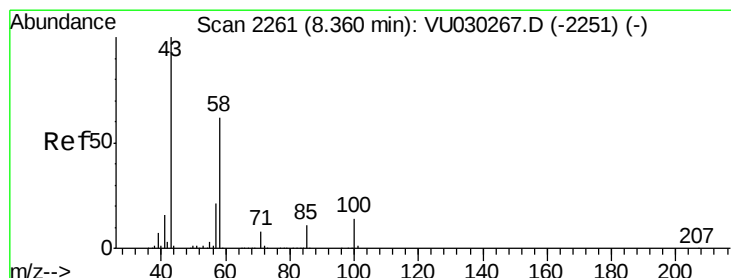
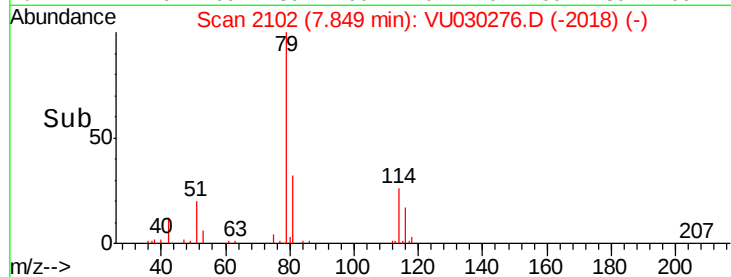
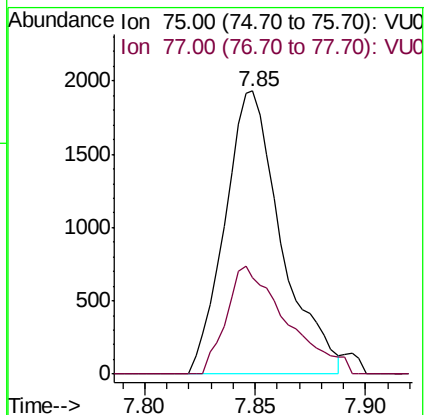
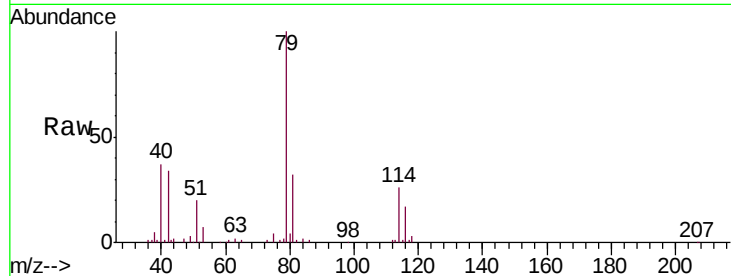
C0966DL

Tgt Ion: 75 Resp: 3430

Ion Ratio Lower Upper

75 100

77 34.1 22.7 42.1



#48

2-Hexanone

Concen: 1.530 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

Tgt Ion: 43 Resp: 6871

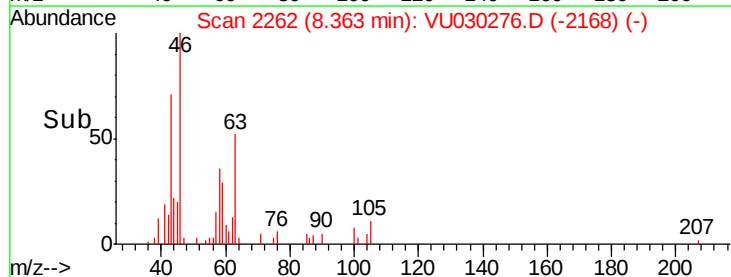
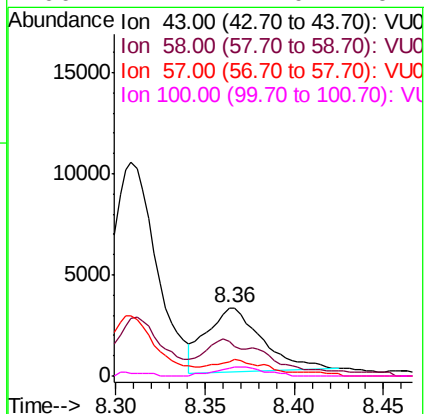
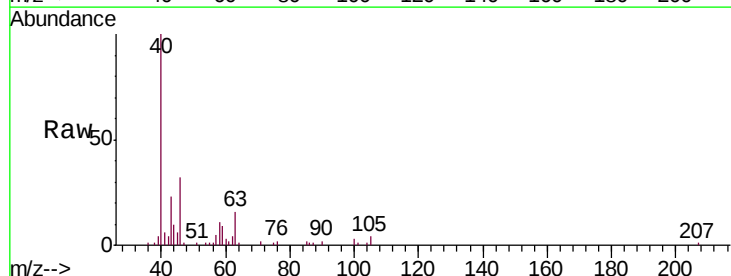
Ion Ratio Lower Upper

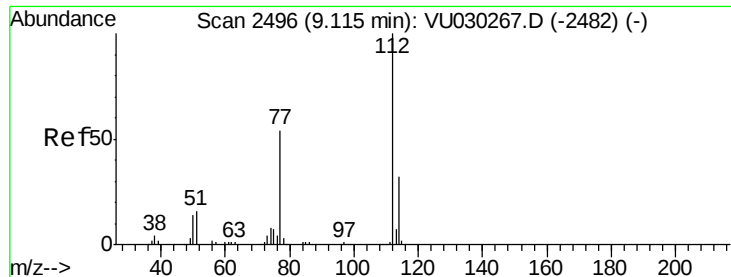
43 100

58 14.9 49.3 73.9#

57 6.1 17.0 25.4#

100 12.1 11.0 16.4

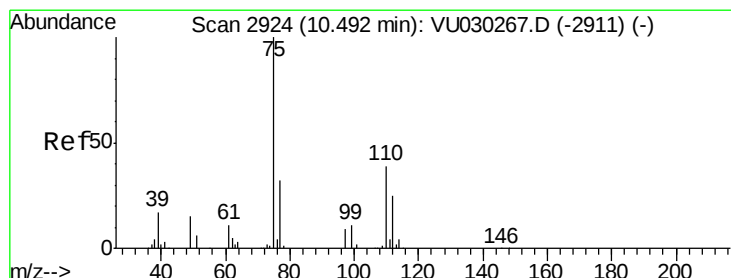
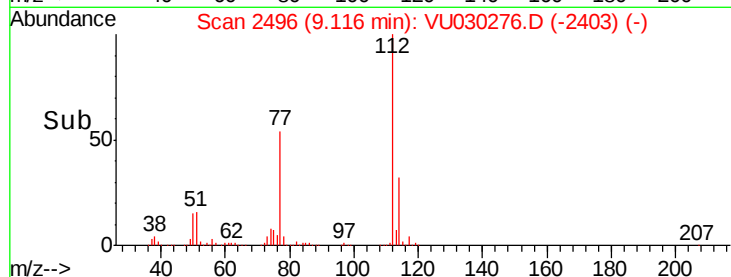
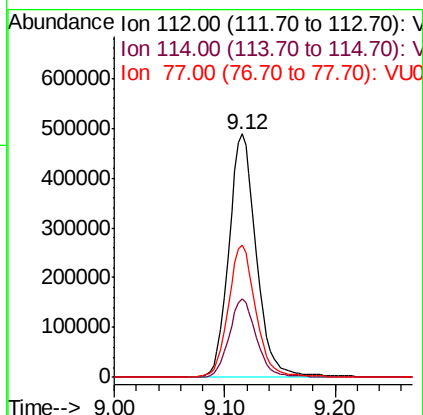
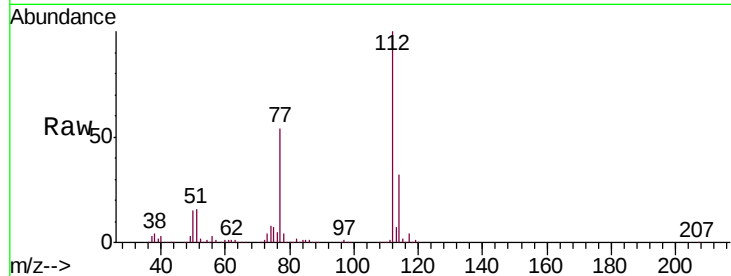




#51  
Chlorobenzene  
Concen: 76.103 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. 0.00 min  
Lab File: VU030276.D  
Acq: 21 Mar 2019 19:21

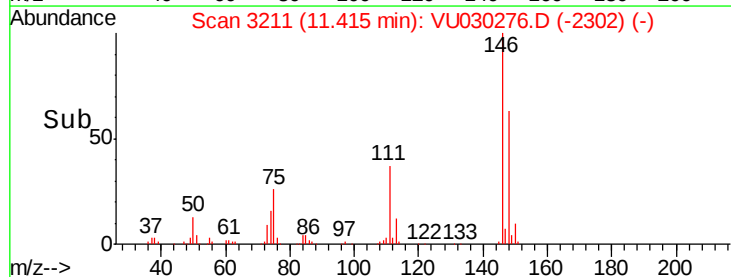
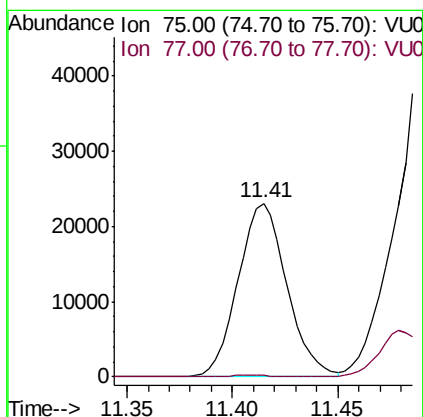
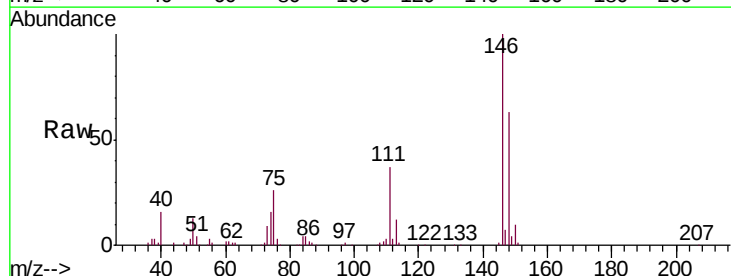
Instrument :  
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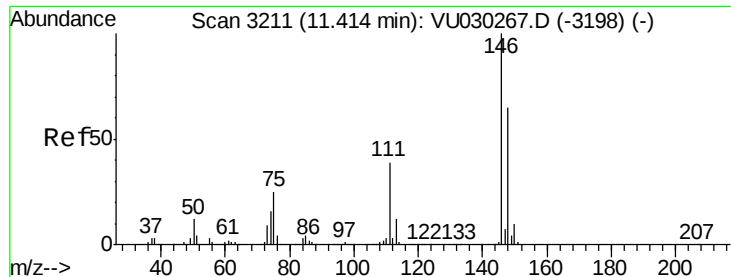
Tgt Ion: 112 Resp: 842378  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.5 41.7  
77 54.4 43.4 65.0



#59  
1,2,3-Trichloropropane  
Concen: 6.947 ug/L  
RT: 11.41 min Scan# 3211  
Delta R.T. 0.92 min  
Lab File: VU030276.D  
Acq: 21 Mar 2019 19:21

Tgt Ion: 75 Resp: 36963  
Ion Ratio Lower Upper  
75 100  
77 0.8 25.8 38.8#





#62

1,3-Dichlorobenzene

Concen: 17.404 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

Instrument :

MSVOA\_U

ClientSampleId :

C0966DL

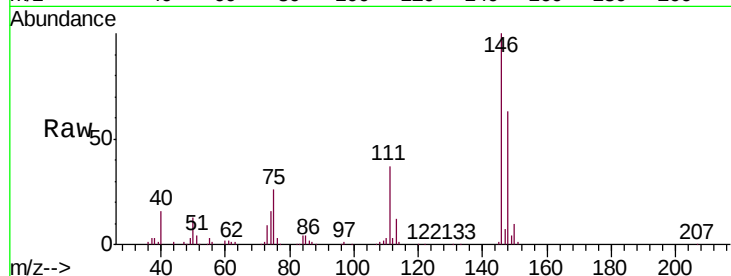
Tgt Ion:146 Resp: 142922

Ion Ratio Lower Upper

146 100

111 36.5 27.2 50.4

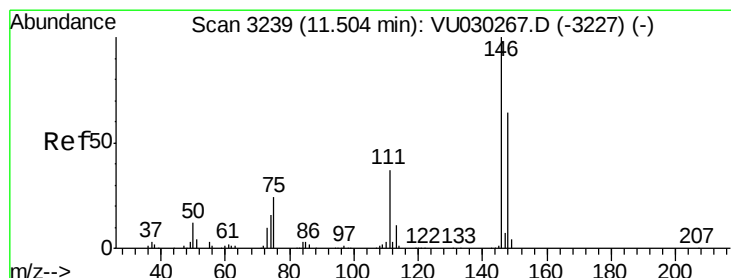
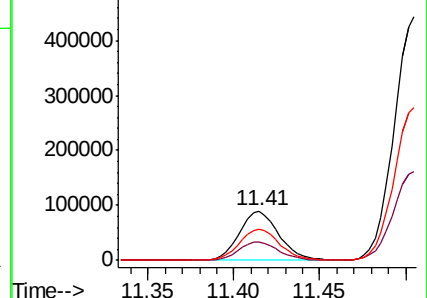
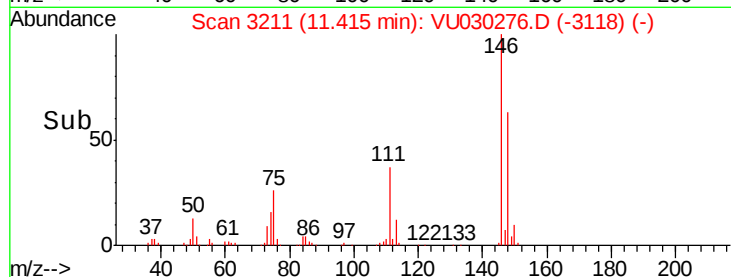
148 63.4 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 81.883 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030276.D

Acq: 21 Mar 2019 19:21

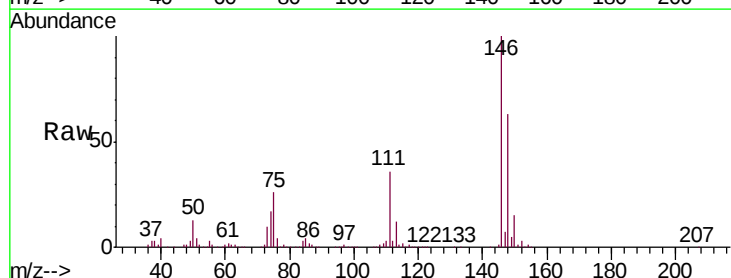
Tgt Ion:146 Resp: 697473

Ion Ratio Lower Upper

146 100

111 36.2 25.3 46.9

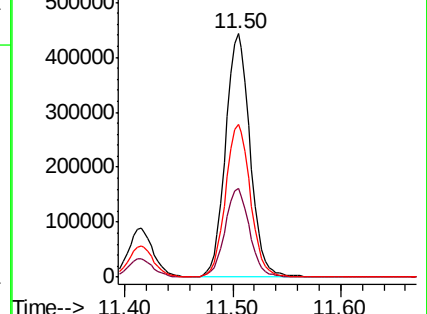
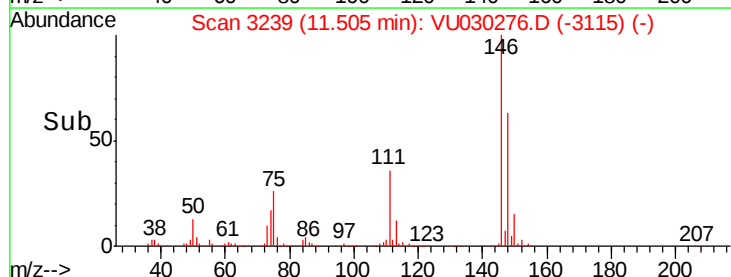
148 63.0 44.7 82.9

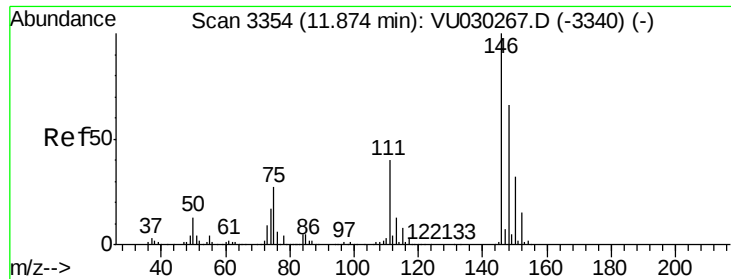


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

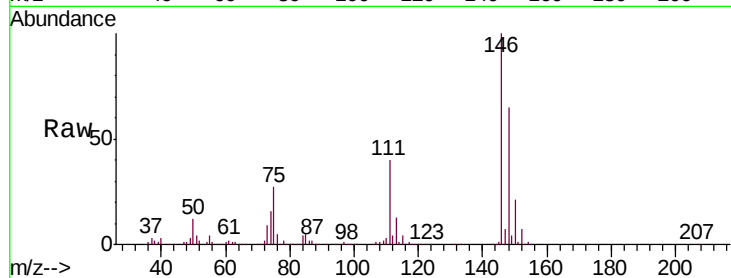




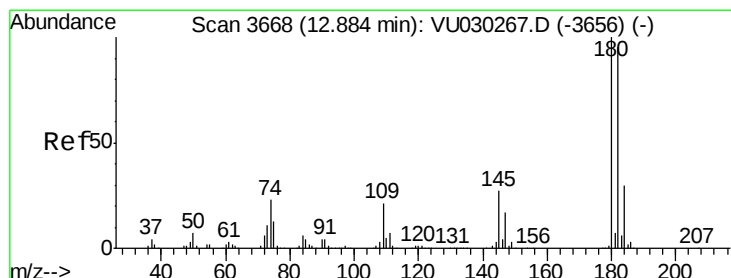
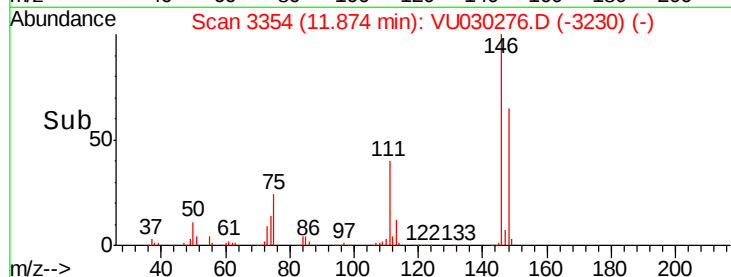
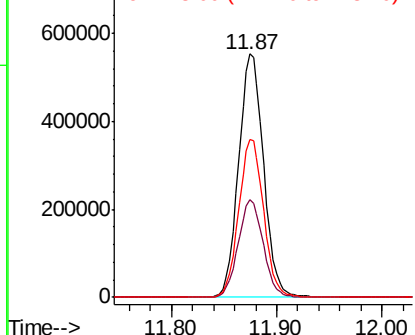
#65  
 1,2-Dichlorobenzene  
 Concen: 107.880 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VU030276.D  
 Acq: 21 Mar 2019 19:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0966DL

Tgt Ion:146 Resp: 905113  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 31.7 47.5  
 148 65.1 52.0 78.0

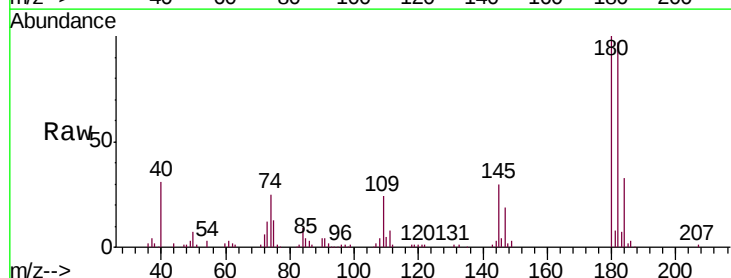


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

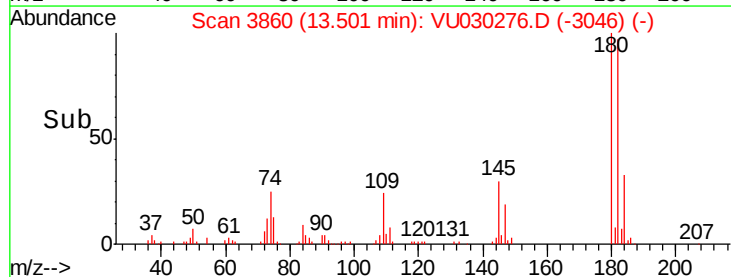
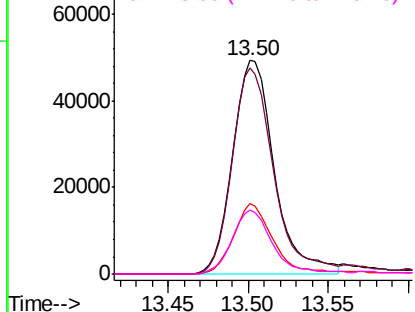


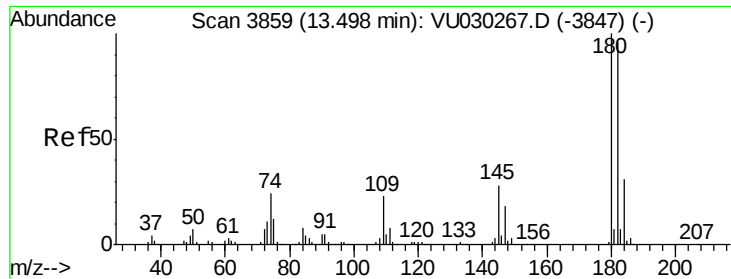
#67  
 1,3,5-Trichlorobenzene  
 Concen: 13.701 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.62 min  
 Lab File: VU030276.D  
 Acq: 21 Mar 2019 19:21

Tgt Ion:180 Resp: 87933  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.0 114.0  
 184 30.8 24.2 36.4  
 145 29.2 22.1 33.1



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

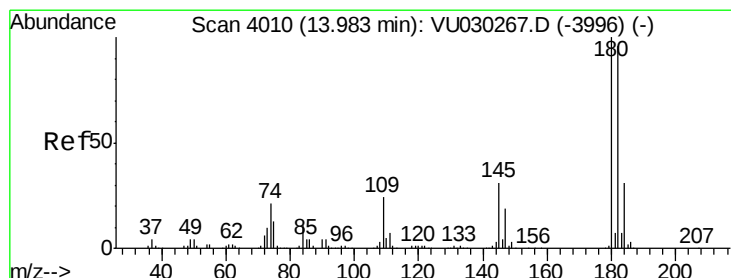
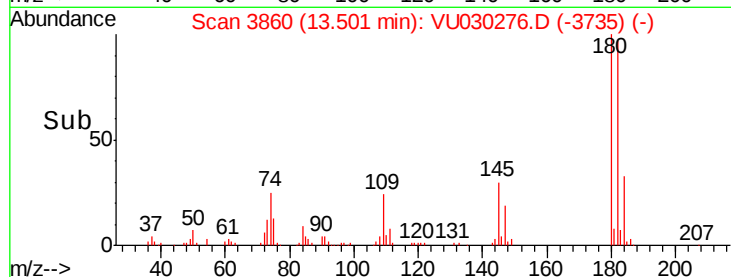
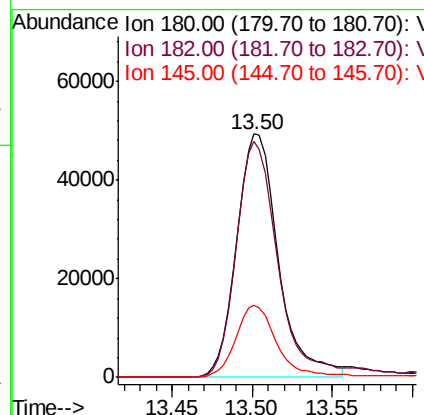
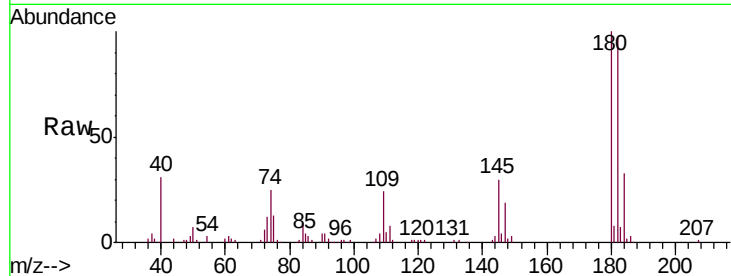




#68  
 1,2,4-trichlorobenzene  
 Concen: 15.494 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.00 min  
 Lab File: VU030276.D  
 Acq: 21 Mar 2019 19:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0966DL

Tgt Ion:180 Resp: 87933  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.4 114.6  
 145 29.2 22.7 34.1



#70  
 1,2,3-Trichlorobenzene  
 Concen: 6.856 ug/L  
 RT: 13.99 min Scan# 4011  
 Delta R.T. 0.00 min  
 Lab File: VU030276.D  
 Acq: 21 Mar 2019 19:21

Tgt Ion:180 Resp: 40602  
 Ion Ratio Lower Upper  
 180 100  
 182 98.3 75.9 113.9  
 145 32.1 24.1 36.1

