

Data File : VU029061.D  
Acq On : 07 Jan 2019 16:40  
Operator : MD/SY  
Sample : VU0107MBL02  
Misc : 5.00g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK50

Quant Time: Jan 08 03:15:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jan 08 03:12:02 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 174963   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 166611   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 67362    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 65690    | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.66%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 52227    | 48.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.42%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 83786    | 35.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.04%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 103193   | 105.01   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.01% |
| 24) Chloroform-d               | 4.64    | 84    | 109904   | 49.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 70343    | 51.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.48% |
| 32) Benzene-d6                 | 5.34    | 84    | 239993   | 50.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.98% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 83619    | 52.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.58% |
| 41) Toluene-d8                 | 7.56    | 98    | 207913   | 48.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.48%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 36445    | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.72% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 73681    | 97.02    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 115553   | 52.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.18% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 73725    | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.22% |

#### Target Compounds

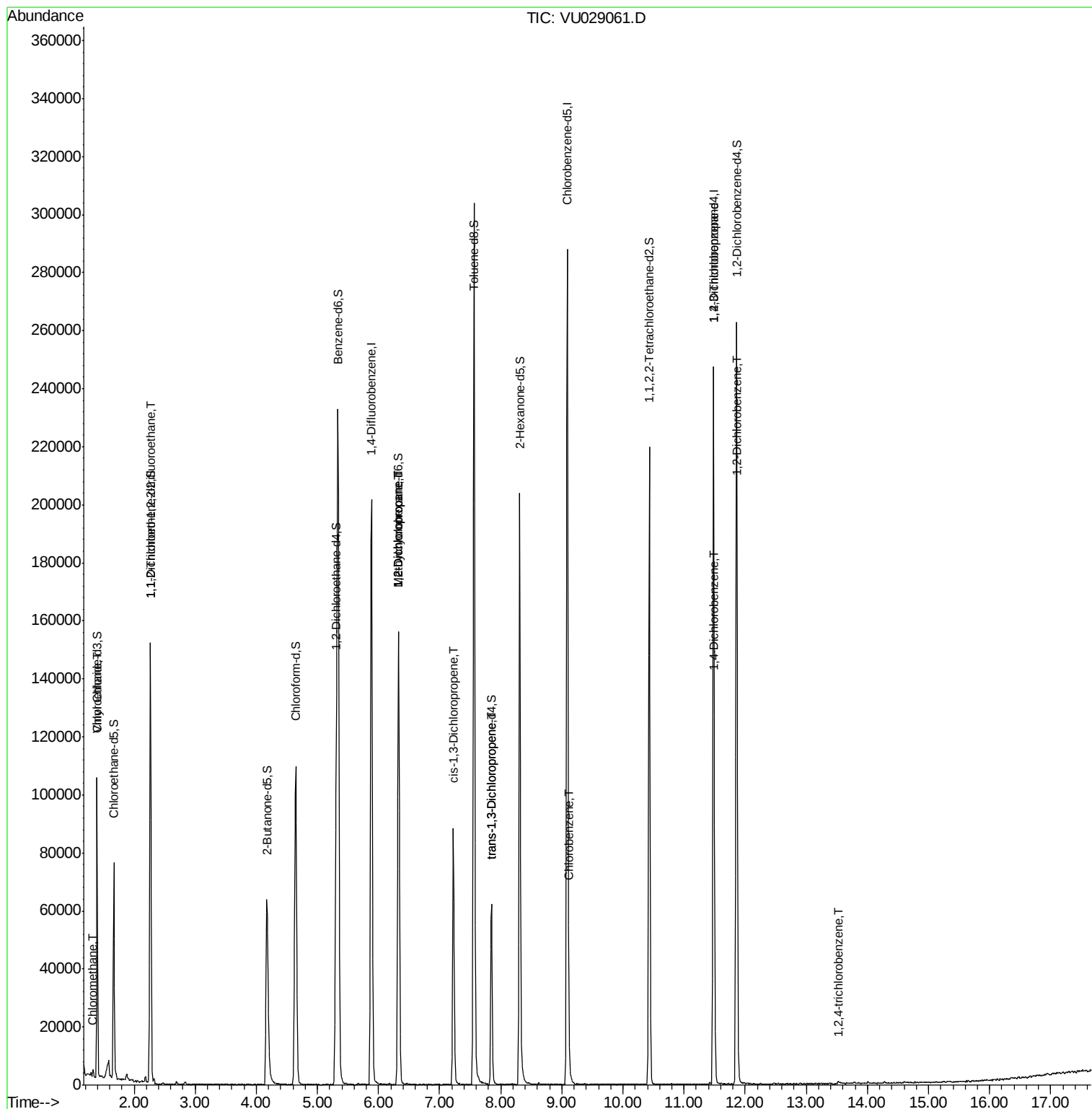
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane               | 1.33  | 50  | 1955  | 1.008 ug/L   | 91     |
| 8) Chloroethane                | 1.40  | 64  | 1047  | 1.070 ug/L # | 1      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 662   | 0.584 ug/L # | 20     |
| 35) Methylcyclohexane          | 6.32  | 83  | 17892 | 8.389 ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 7720  | 5.207 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 1697  | 0.803 ug/L # | 76     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1160  | 0.616 ug/L # | 78     |
| 51) Chlorobenzene              | 9.12  | 112 | 4846  | 1.430 ug/L   | 95     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8854  | 5.004 ug/L   | 100    |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 3839  | 1.741 ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146 | 3394  | 1.520 ug/L   | 91     |
| 68) 1,2,4-trichlorobenzene     | 13.53 | 180 | 489   | 0.370 ug/L # | 35     |

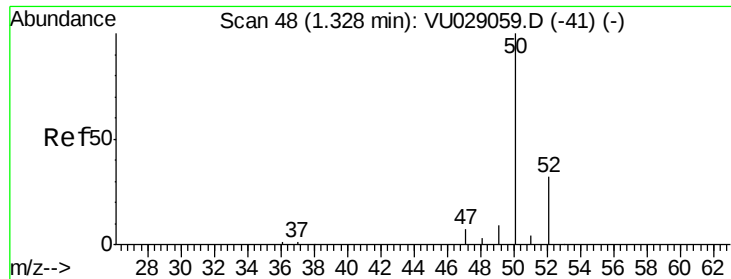
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VBLK50

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Quant Title : VOC Analysis  
QLast Update : Tue Jan 08 03:12:02 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.008 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

Instrument :

MSVOA\_U

ClientSampleId :

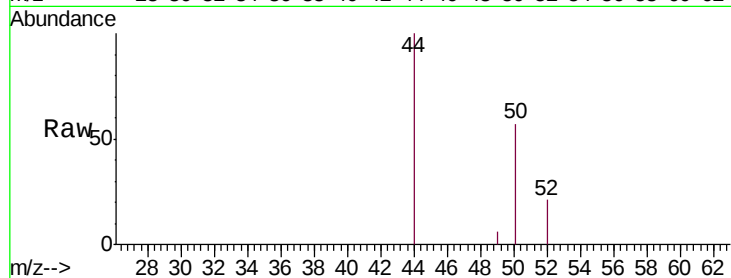
VBLK50

Tgt Ion: 50 Resp: 1955

Ion Ratio Lower Upper

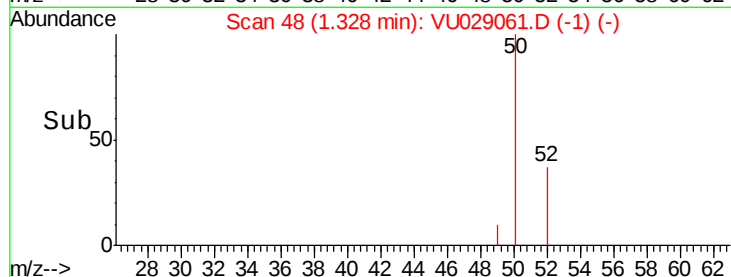
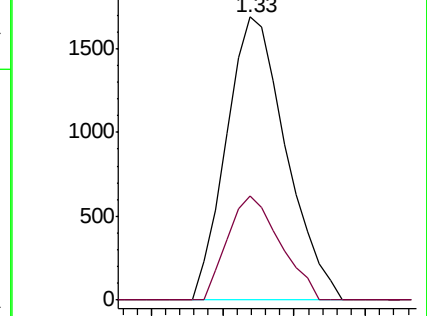
50 100

52 37.0 22.3 41.3

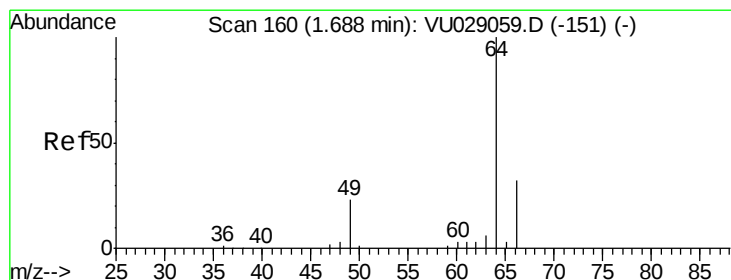


Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



Time-->



#8

Chloroethane

Concen: 1.070 ug/L

RT: 1.40 min Scan# 69

Delta R.T. -0.29 min

Lab File: VU029061.D

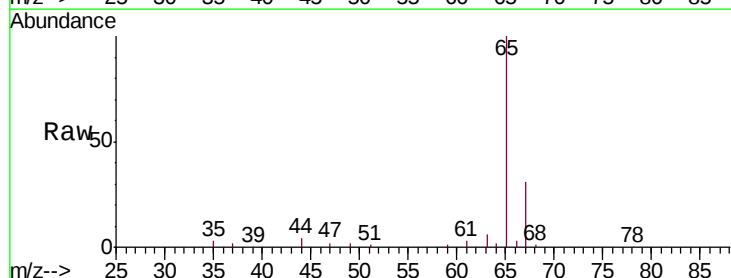
Acq: 07 Jan 2019 16:40

Tgt Ion: 64 Resp: 1047

Ion Ratio Lower Upper

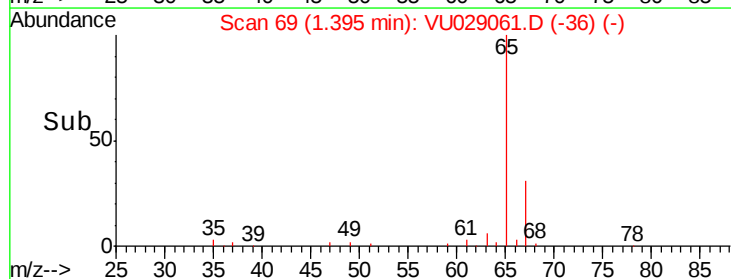
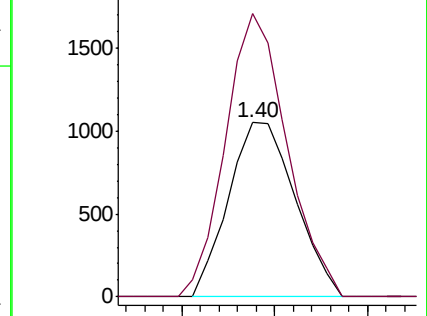
64 100

66 162.4 21.5 39.9#

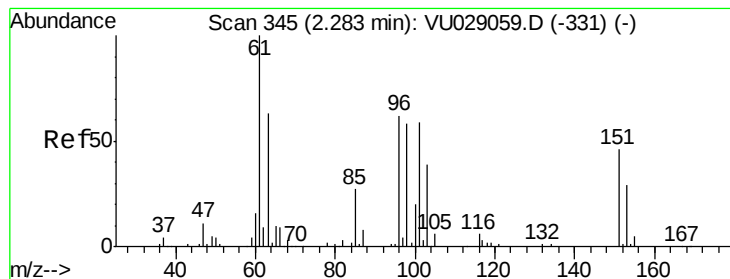


Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



Time-->



#10

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

Concen: 0.584 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

Instrument :

MSVOA\_U

ClientSampleId :

VBLK50

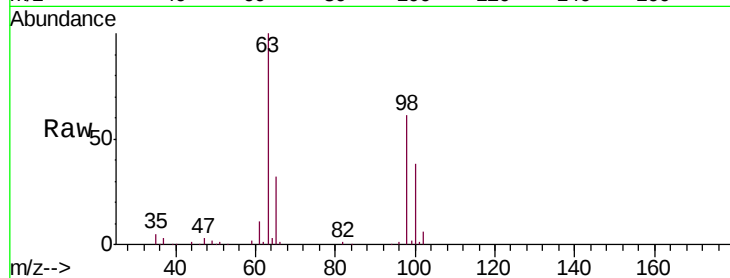
Tgt Ion: 101 Resp: 662

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

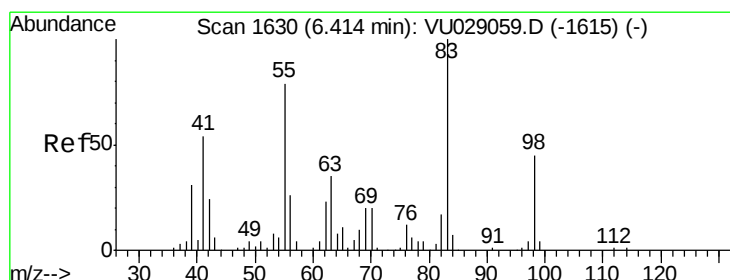
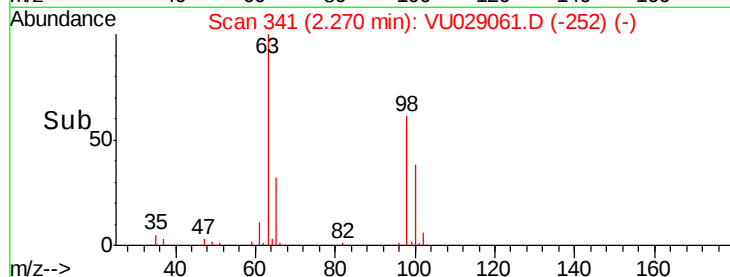
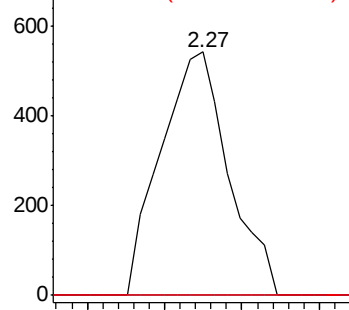
151 0.0 59.4 89.0#



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



#35

Methylcyclohexane

Concen: 8.389 ug/L

RT: 6.32 min Scan# 1602

Delta R.T. -0.09 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

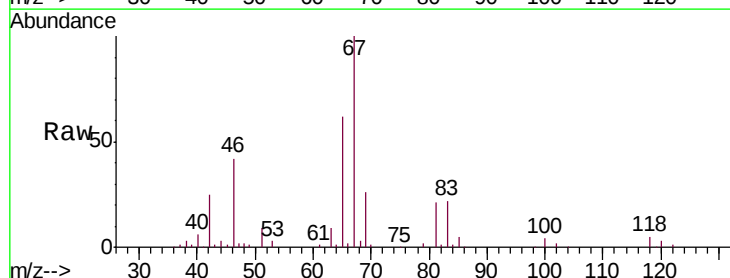
Tgt Ion: 83 Resp: 17892

Ion Ratio Lower Upper

83 100

55 0.0 63.7 95.5#

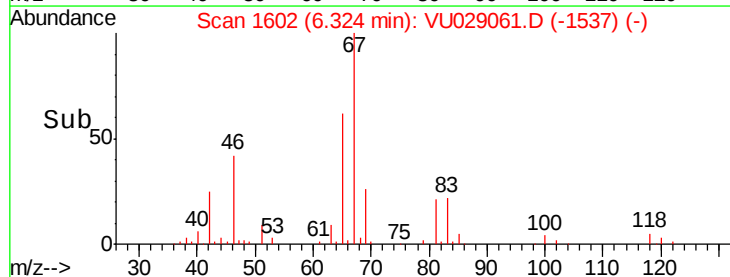
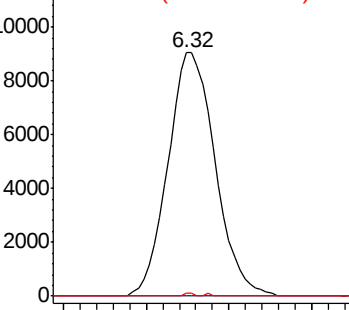
98 0.2 35.6 53.4#

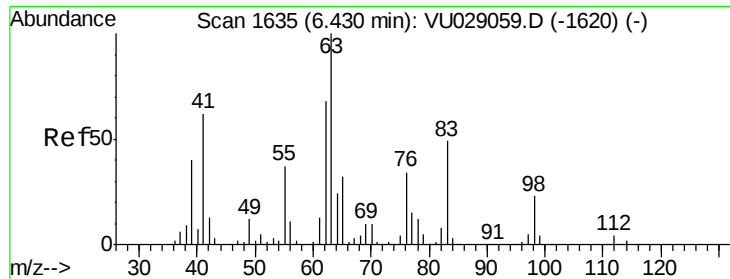


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

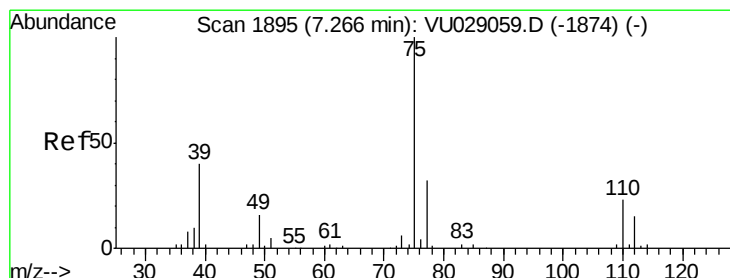
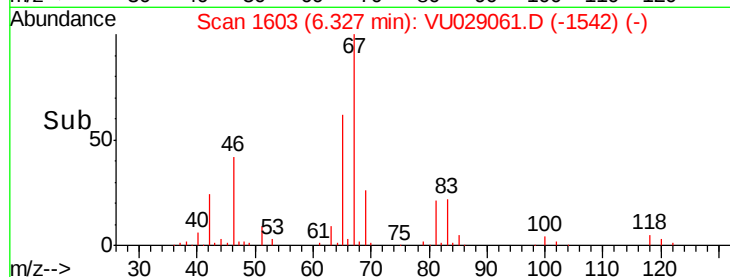
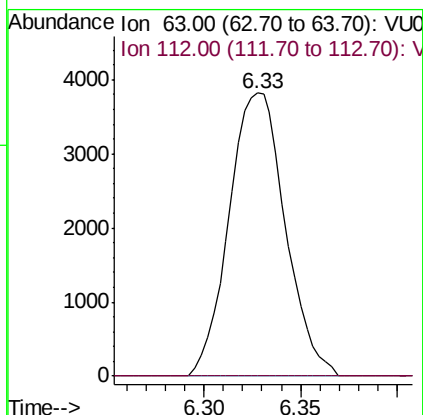
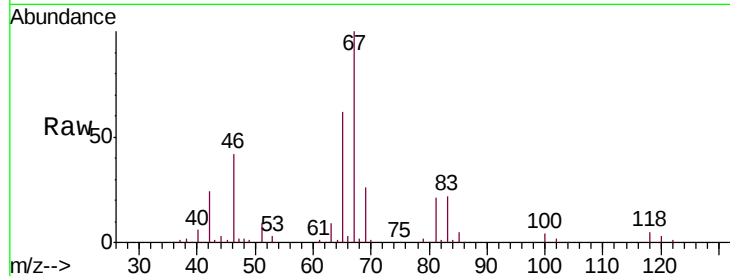




#37  
 1,2-Dichloropropane  
 Concen: 5.207 ug/L  
 RT: 6.33 min Scan# 1603  
 Delta R.T. -0.10 min  
 Lab File: VU029061.D  
 Acq: 07 Jan 2019 16:40

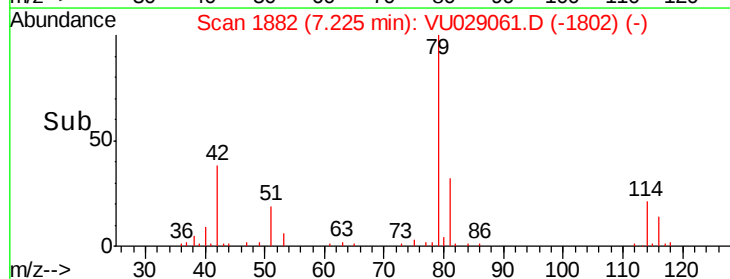
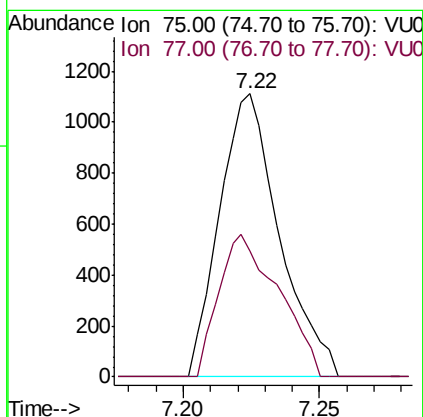
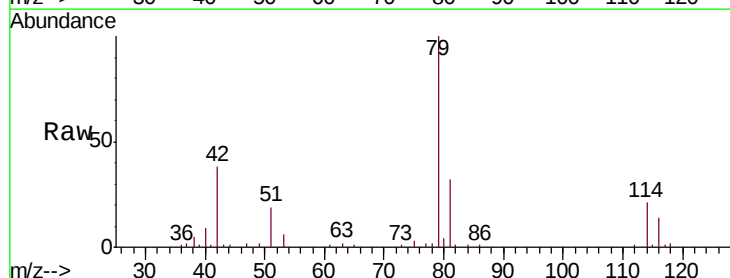
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK50

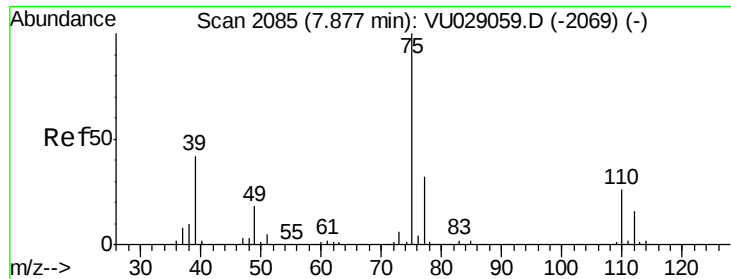
Tgt Ion: 63 Resp: 7720  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.7 4.1#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.803 ug/L  
 RT: 7.22 min Scan# 1882  
 Delta R.T. -0.04 min  
 Lab File: VU029061.D  
 Acq: 07 Jan 2019 16:40

Tgt Ion: 75 Resp: 1697  
 Ion Ratio Lower Upper  
 75 100  
 77 44.4 21.8 40.6#





#44

trans-1,3-Dichloropropene

Concen: 0.616 ug/L

RT: 7.85 min Scan# 2075

Delta R.T. -0.03 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

Instrument :

MSVOA\_U

ClientSampleId :

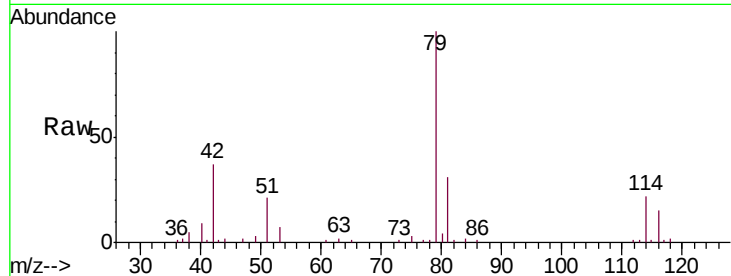
VBLK50

Tgt Ion: 75 Resp: 1160

Ion Ratio Lower Upper

75 100

77 43.3 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.85

600

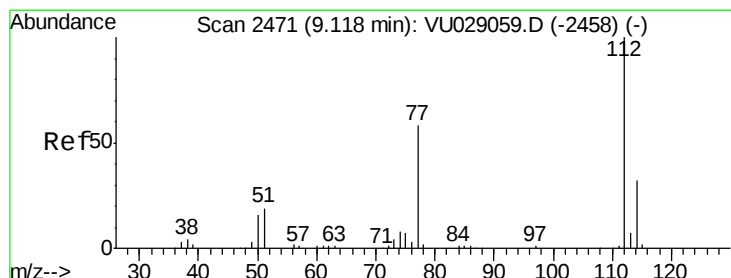
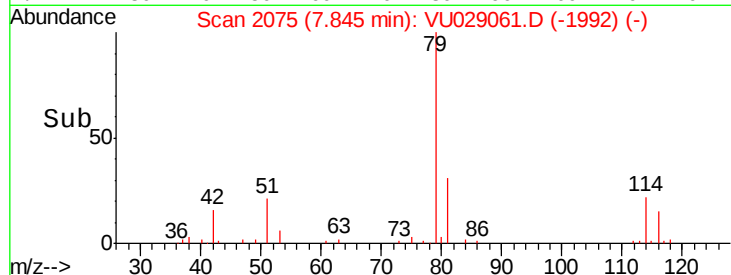
400

200

0

7.82 7.84 7.86 7.88

Time-->



#51

Chlorobenzene

Concen: 1.430 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

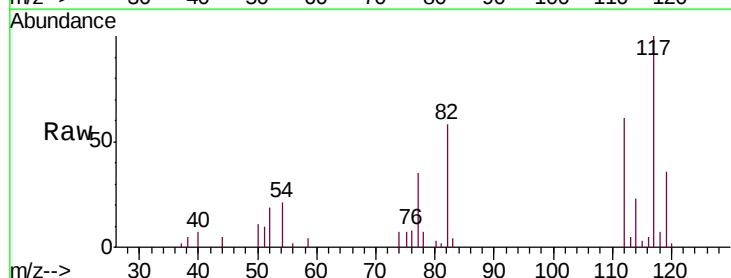
Tgt Ion: 112 Resp: 4846

Ion Ratio Lower Upper

112 100

114 37.4 22.2 41.2

77 58.4 47.8 71.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0

9.12

3000

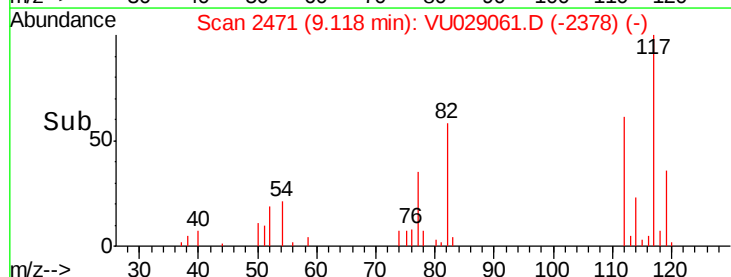
2000

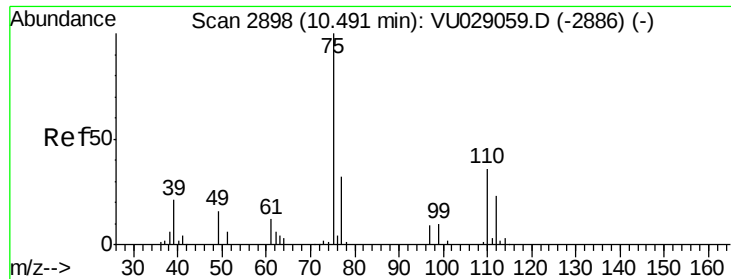
1000

0

9.10 9.15

Time-->

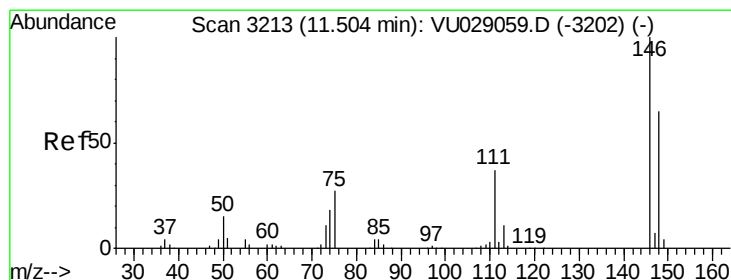
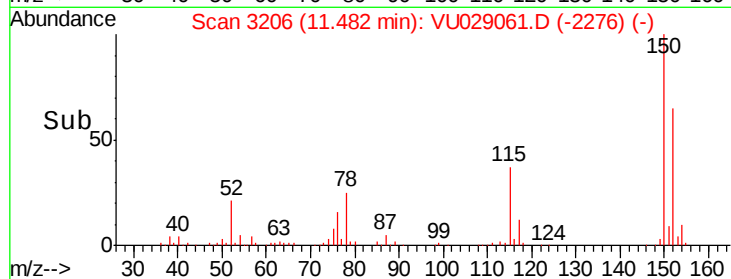
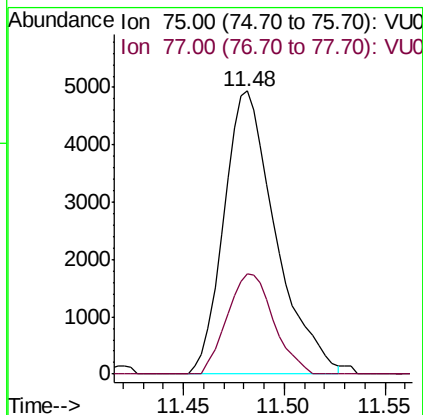
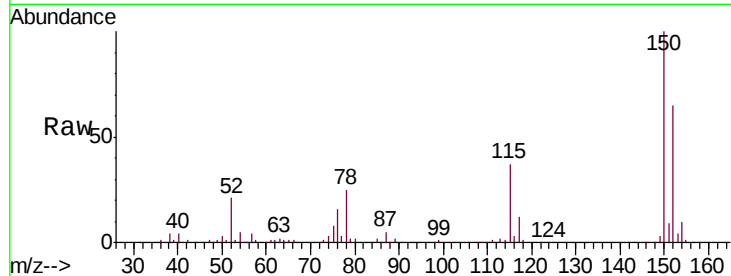




#59  
 1,2,3-Trichloropropane  
 Concen: 5.004 ug/L  
 RT: 11.48 min Scan# 3206  
 Delta R.T. 0.99 min  
 Lab File: VU029061.D  
 Acq: 07 Jan 2019 16:40

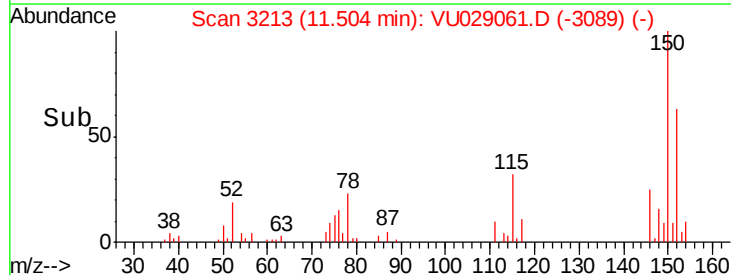
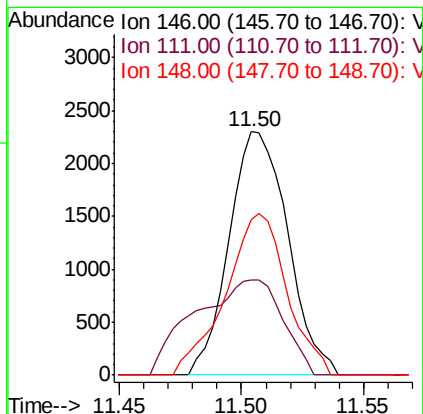
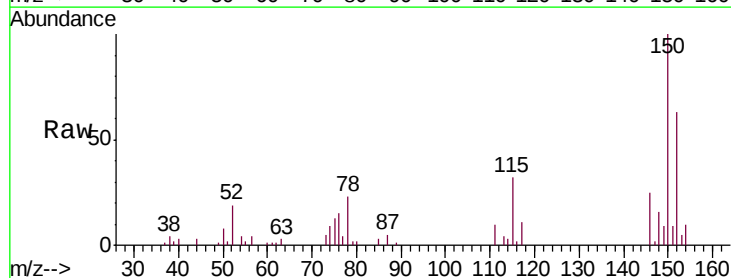
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VBLK50

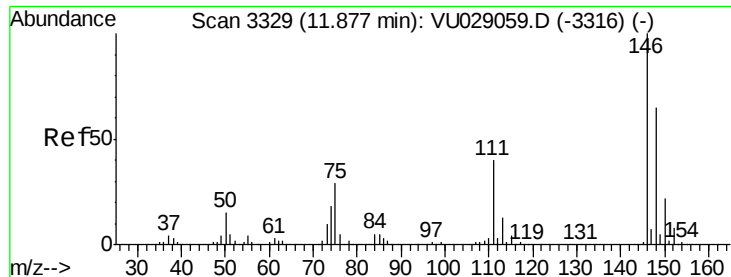
Tgt Ion: 75 Resp: 8854  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 25.5 38.3



#63  
 1,4-Dichlorobenzene  
 Concen: 1.741 ug/L  
 RT: 11.50 min Scan# 3213  
 Delta R.T. 0.00 min  
 Lab File: VU029061.D  
 Acq: 07 Jan 2019 16:40

Tgt Ion: 146 Resp: 3839  
 Ion Ratio Lower Upper  
 146 100  
 111 39.1 26.5 49.1  
 148 63.6 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 1.520 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

Instrument :

MSVOA\_U

ClientSampled :

VBLK50

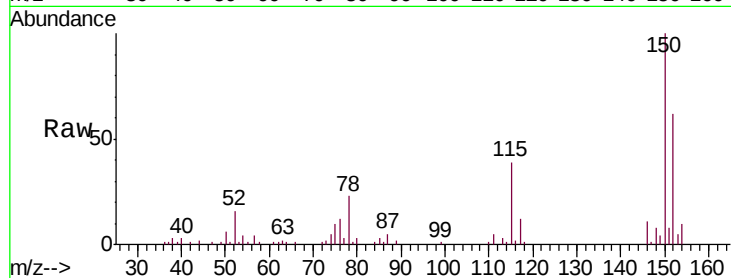
Tgt Ion:146 Resp: 3394

Ion Ratio Lower Upper

146 100

111 46.0 32.1 48.1

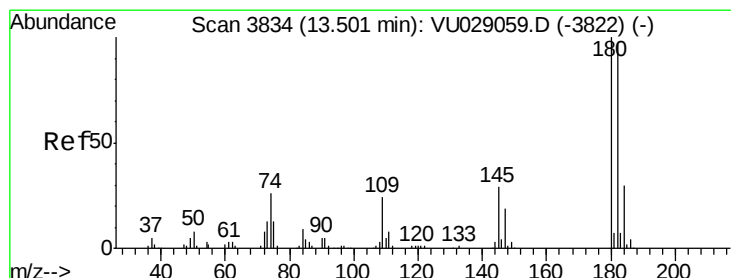
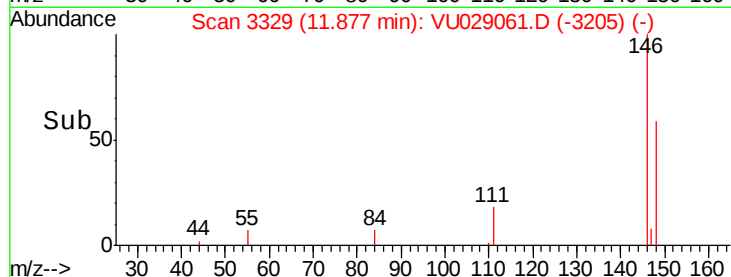
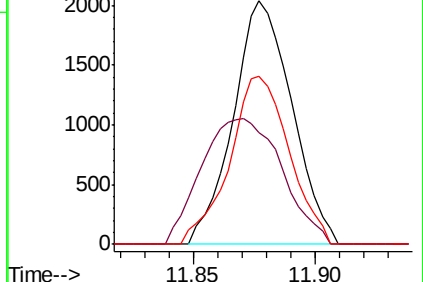
148 69.0 49.7 74.5



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



#68

1,2,4-trichlorobenzene

Concen: 0.370 ug/L

RT: 13.53 min Scan# 3843

Delta R.T. 0.03 min

Lab File: VU029061.D

Acq: 07 Jan 2019 16:40

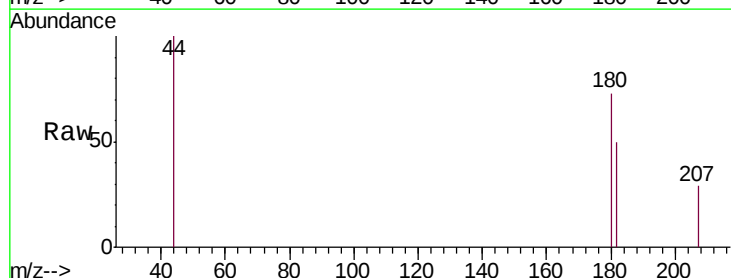
Tgt Ion:180 Resp: 489

Ion Ratio Lower Upper

180 100

182 30.3 77.4 116.0#

145 0.0 23.5 35.3#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

