

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111620\  
 Data File : VW017267.D  
 Acq On : 16 Nov 2020 19:14  
 Operator : SY/VA  
 Sample : L4727-08RE  
 Misc : 4.44G/10ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC2RE

Quant Time: Nov 17 06:12:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 17 06:08:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 337409   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 225347   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 62151    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 83676    | 19.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 78.76%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 76875    | 23.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.88%   |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 120669   | 15.87    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 63.48%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 46208    | 48.62    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.24%   |
| 24) Chloroform-d               | 7.65   | 84    | 189164   | 24.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.08%   |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 103311   | 26.38    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.52%  |
| 29) Benzene-d6                 | 8.28   | 84    | 344348   | 30.01    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 120.04%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 97027    | 30.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 122.28%# |
| 37) Toluene-d8                 | 10.32  | 98    | 267381   | 24.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.84%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 38324    | 26.78    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 107.12%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 37824    | 68.28    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 136.56%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 67630    | 24.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.84%   |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 49734    | 22.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.84%   |

## Target Compounds

|                                |       |     |        |               | Ovalue |
|--------------------------------|-------|-----|--------|---------------|--------|
| 13) Acetone                    | 4.13  | 43  | 3633   | 5.709 ug/L    | 96     |
| 16) Methylene chloride         | 4.92  | 84  | 9641   | 2.119 ug/L    | 99     |
| 35) Trichloroethene            | 8.85  | 95  | 9777   | 2.950 ug/L #  | 2      |
| 42) cis-1,3-Dichloropropene    | 10.04 | 75  | 3130   | 0.714 ug/L #  | 62     |
| 44) Toluene                    | 10.40 | 91  | 3694   | 0.284 ug/L    | 87     |
| 45) trans-1,3-Dichloropropene  | 10.58 | 75  | 1969   | 0.523 ug/L #  | 58     |
| 46) 1,1,2-Trichloroethane      | 10.76 | 97  | 3222   | 1.351 ug/L #  | 26     |
| 53) Ethylbenzene               | 11.73 | 91  | 5343   | 0.367 ug/L    | 96     |
| 54) m,p-Xylene                 | 11.84 | 106 | 4011   | 0.705 ug/L    | 99     |
| 55) o-xylene                   | 12.16 | 106 | 4917   | 0.910 ug/L    | 94     |
| 57) Isopropylbenzene           | 12.47 | 105 | 15021  | 1.025 ug/L #  | 90     |
| 58) 1,1,2,2-Tetrachloroethane  | 12.69 | 83  | 3456   | 1.254 ug/L #  | 70     |
| 66) 1,2-Dibromo-3-chloropropan | 14.46 | 75  | 14053  | 60.963 ug/L # | 1      |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180 | 3115   | 1.370 ug/L #  | 1      |
| 69) Naphthalene                | 15.36 | 128 | 785820 | 187.818 ug/L  | 97     |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180 | 3292   | 1.585 ug/L #  | 1      |

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C0AC2RE

Quant Time: Nov 17 06:12:48 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 17 06:08:23 2020  
Response via : Initial Calibration

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

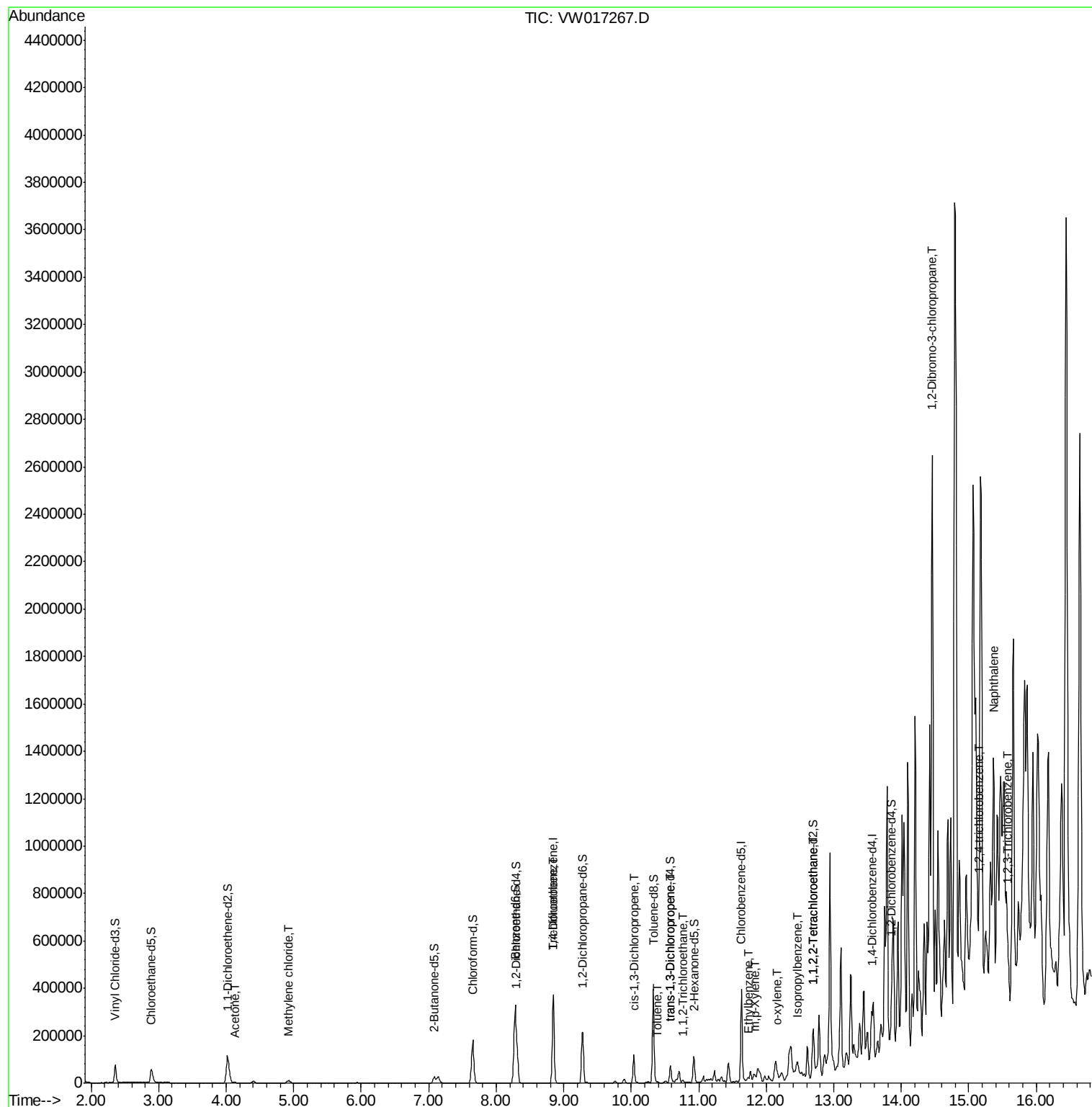
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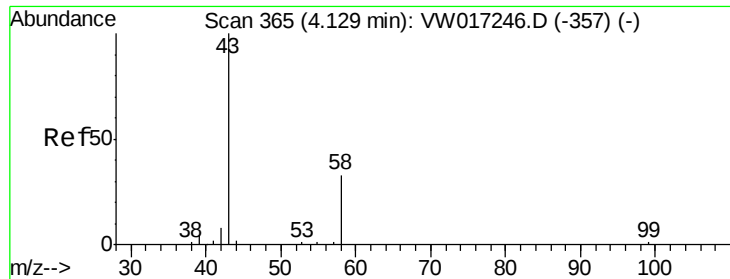
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 17 06:12:48 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 17 06:08:23 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 5.709 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

Instrument :

MSVOA\_W

ClientSampleId :

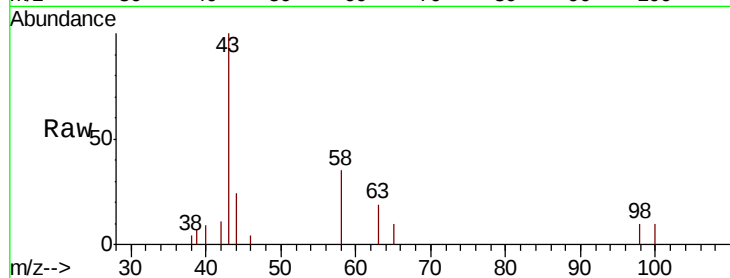
C0AC2RE

Tot Ion: 43 Resp: 3633

Ion Ratio Lower Upper

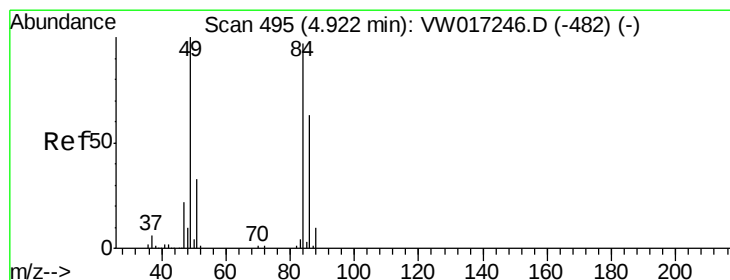
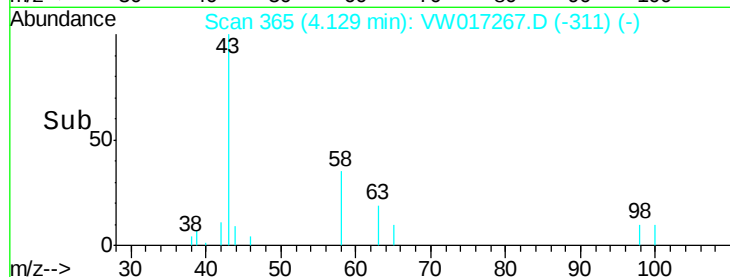
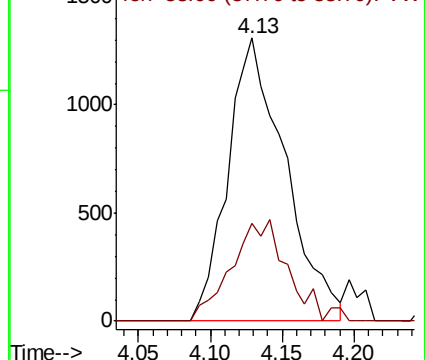
43 100

58 32.5 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#16

Methylene chloride

Concen: 2.119 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

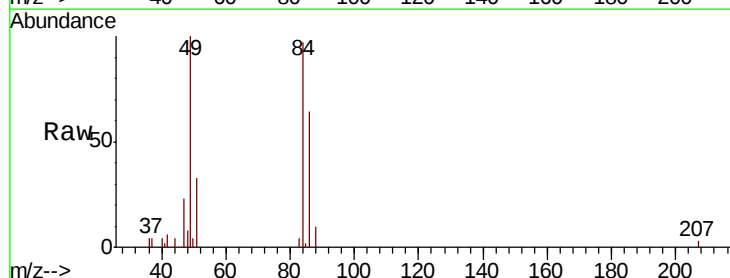
Tgt Ion: 84 Resp: 9641

Ion Ratio Lower Upper

84 100

49 102.9 72.3 134.3

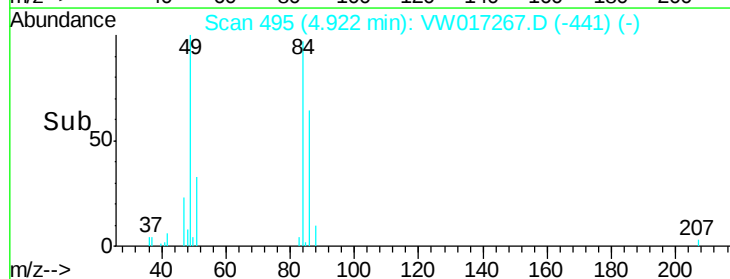
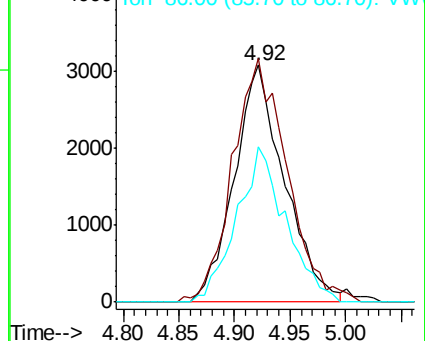
86 65.5 45.1 83.7

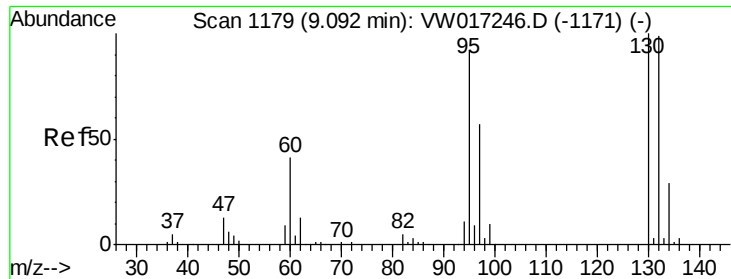


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

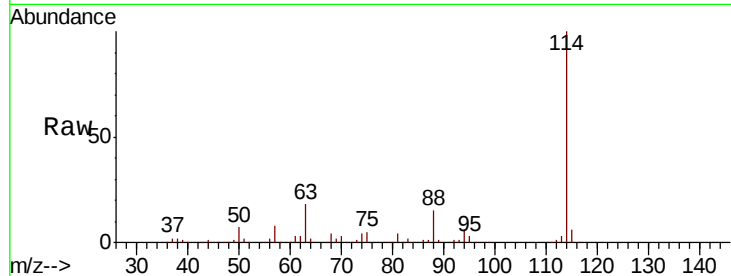




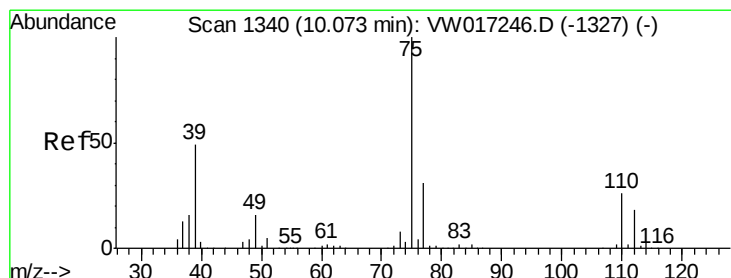
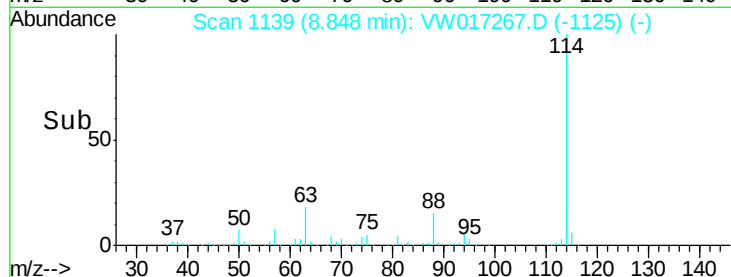
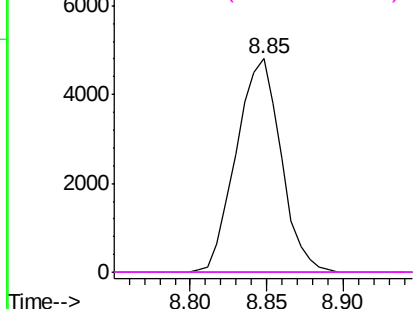
#35  
 Trichloroethene  
 Concen: 2.950 ug/L  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.24 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC2RE

Tot Ion: 95 Resp: 9777  
 Ion Ratio Lower Upper  
 95 100  
 97 0.0 45.0 83.6#  
 132 0.0 73.7 136.9#  
 130 0.0 77.1 143.1#

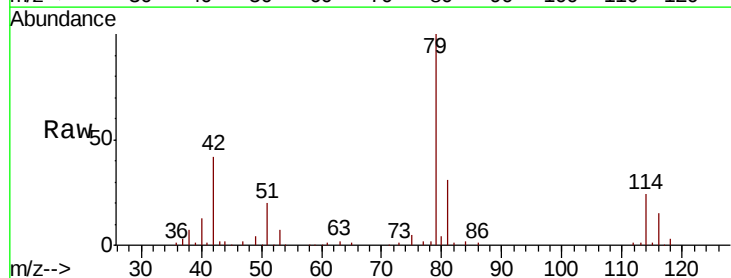


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

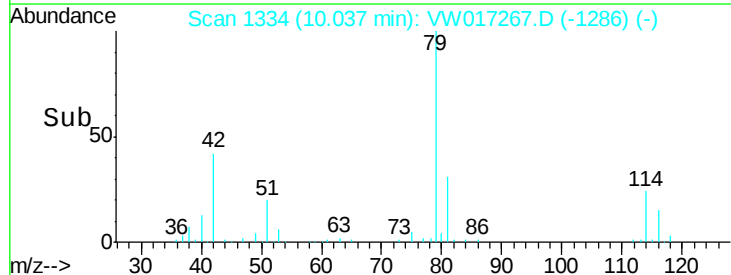
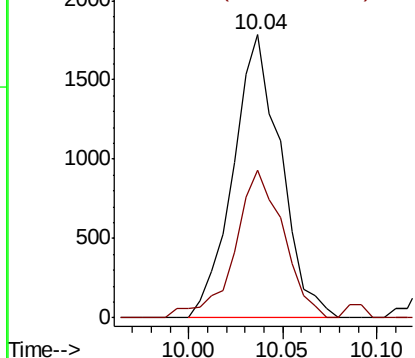


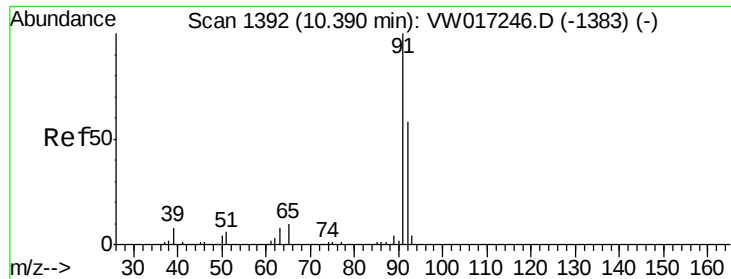
#42  
 cis-1,3-Dichloropropene  
 Concen: 0.714 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

Tgt Ion: 75 Resp: 3130  
 Ion Ratio Lower Upper  
 75 100  
 77 52.4 22.0 41.0#



Abundance Ion 75.00 (74.70 to 75.70): VW  
 Ion 77.00 (76.70 to 77.70): VW





#44

Toluene

Concen: 0.284 ug/L

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

Instrument :

MSVOA\_W

ClientSampleId :

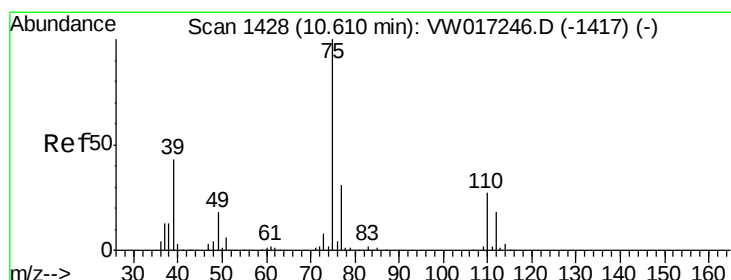
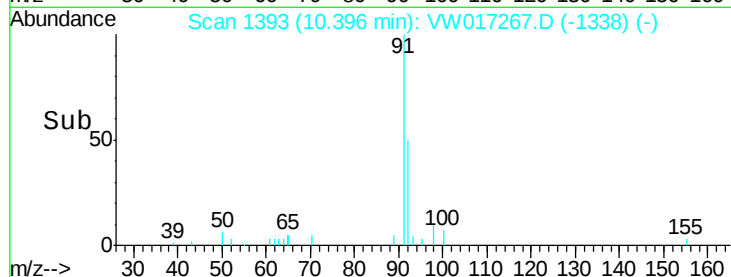
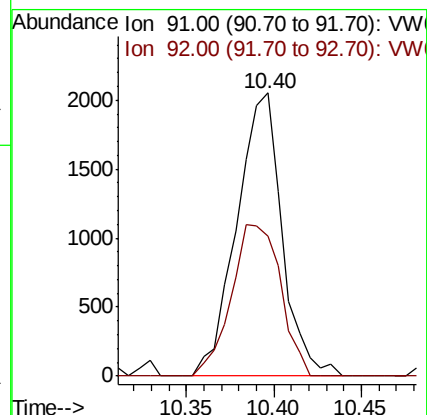
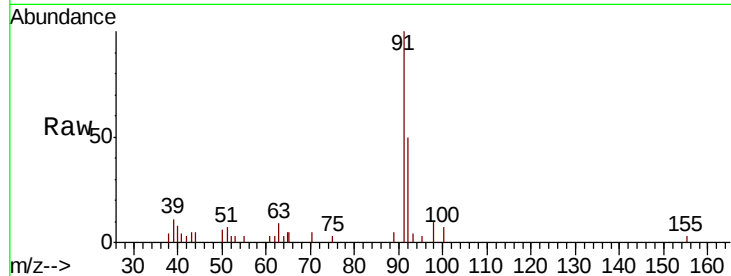
C0AC2RE

Tot Ion: 91 Resp: 3694

Ion Ratio Lower Upper

91 100

92 49.6 41.4 76.8



#45

trans-1,3-Dichloropropene

Concen: 0.523 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW017267.D

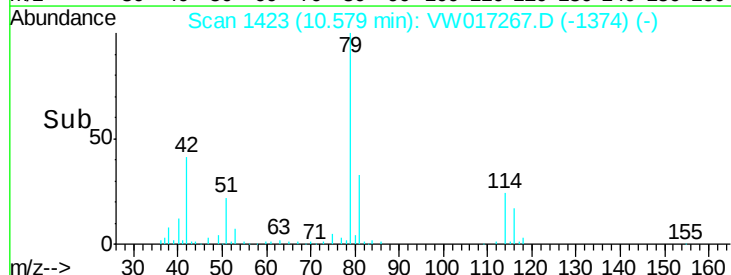
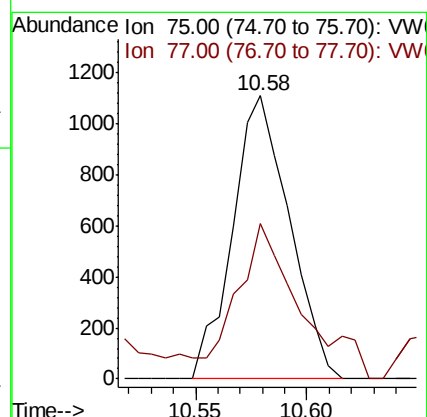
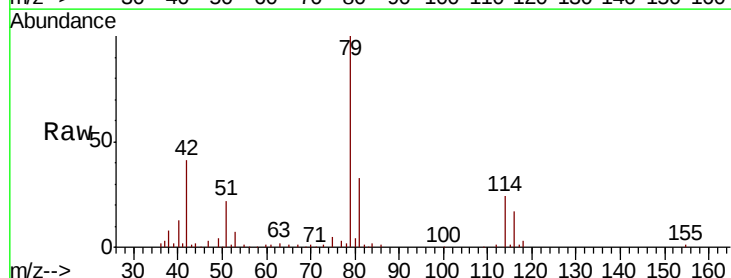
Acq: 16 Nov 2020 19:14

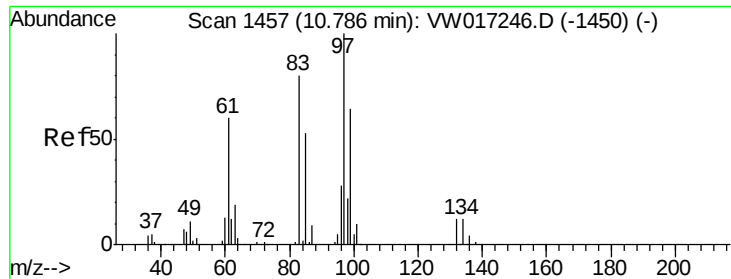
Tgt Ion: 75 Resp: 1969

Ion Ratio Lower Upper

75 100

77 55.0 22.1 41.1#

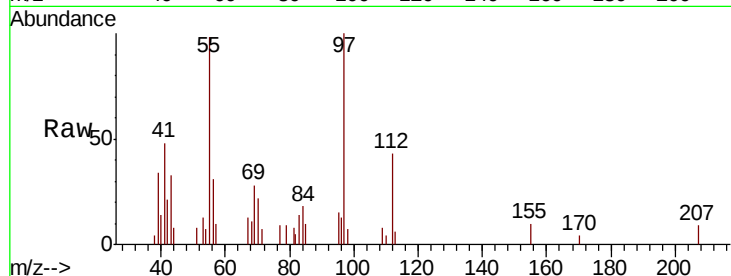




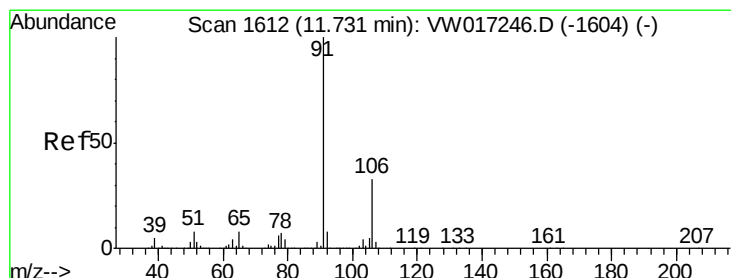
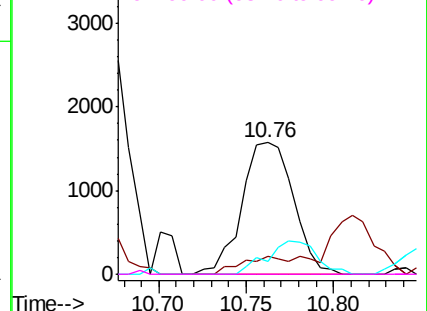
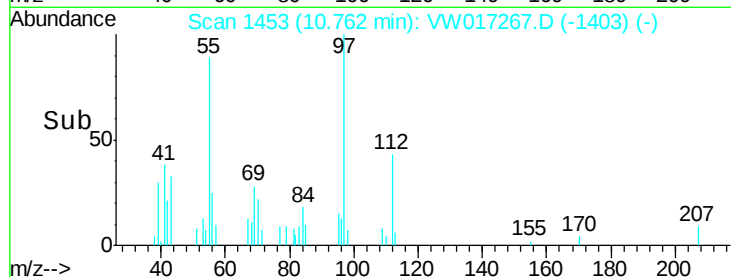
#46  
 1,1,2-Trichloroethane  
 Concen: 1.351 ug/L  
 RT: 10.76 min Scan# 1453  
 Delta R.T. -0.02 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC2RE

Tot Ion: 97 Resp: 3222  
 Ion Ratio Lower Upper  
 97 100  
 83 13.8 57.3 106.5#  
 85 9.9 37.2 69.0#  
 99 0.0 45.7 84.9#

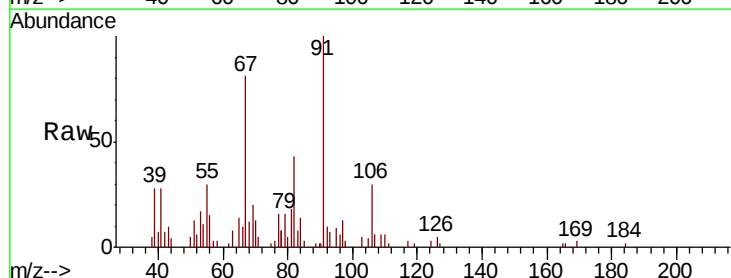


Abundance Ion 97.00 (96.70 to 97.70): VW  
 Ion 83.00 (82.70 to 83.70): VW  
 Ion 85.00 (84.70 to 85.70): VW  
 Ion 99.00 (98.70 to 99.70): VW

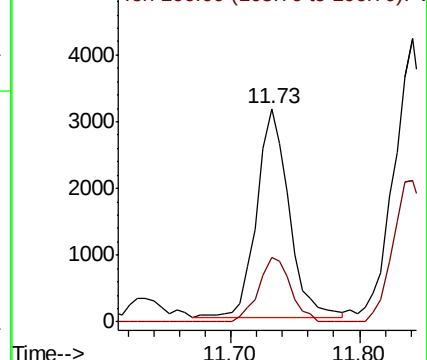
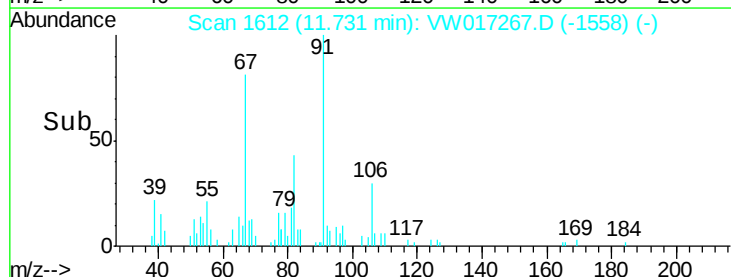


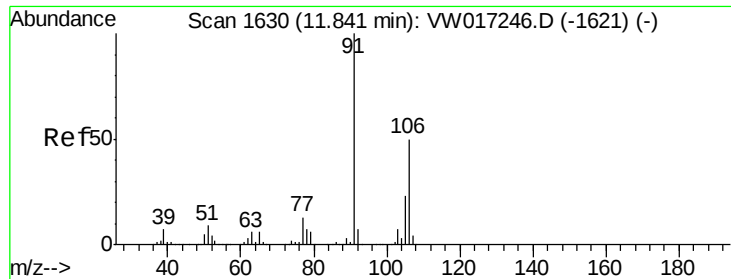
#53  
 Ethylbenzene  
 Concen: 0.367 ug/L  
 RT: 11.73 min Scan# 1612  
 Delta R.T. 0.00 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

Tgt Ion: 91 Resp: 5343  
 Ion Ratio Lower Upper  
 91 100  
 106 30.3 22.9 42.5



Abundance Ion 91.00 (90.70 to 91.70): VW  
 Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 0.705 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

Instrument :

MSVOA\_W

ClientSampleId :

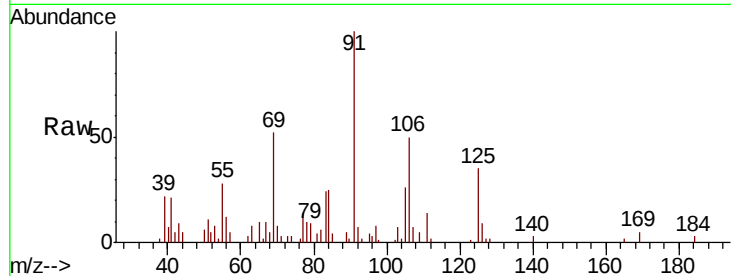
C0AC2RE

Tot Ion:106 Resp: 4011

Ion Ratio Lower Upper

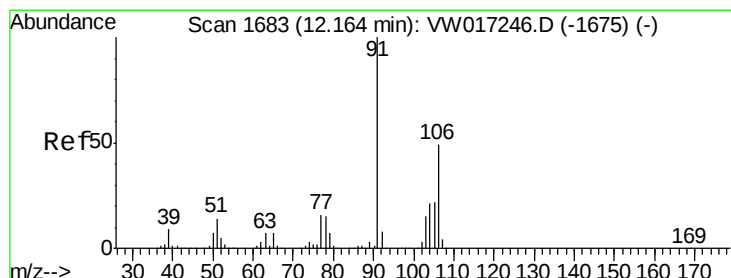
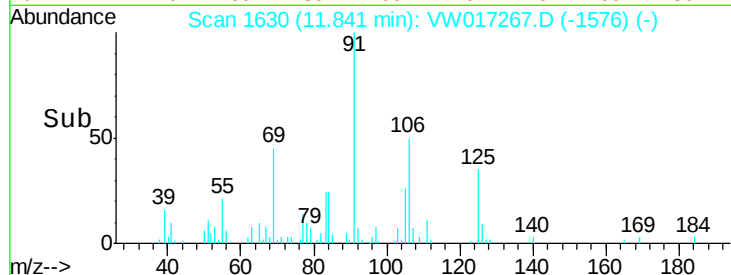
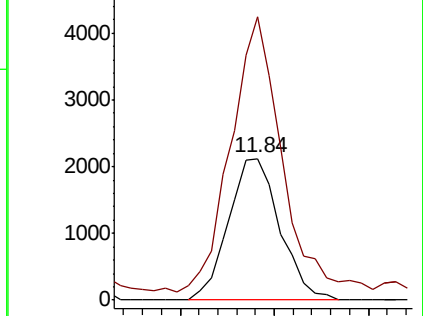
106 100

91 199.5 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 0.910 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW017267.D

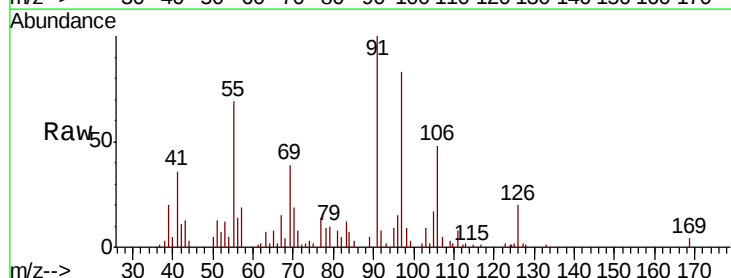
Acq: 16 Nov 2020 19:14

Tgt Ion:106 Resp: 4917

Ion Ratio Lower Upper

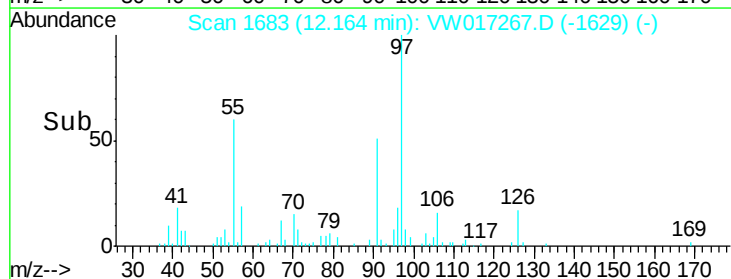
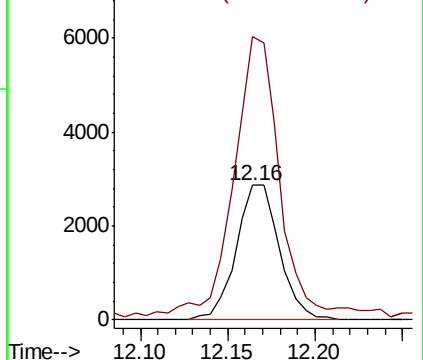
106 100

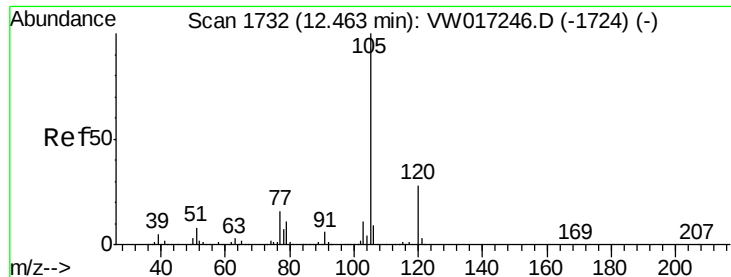
91 210.3 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 1.025 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

Instrument :

MSVOA\_W

ClientSampleId :

C0AC2RE

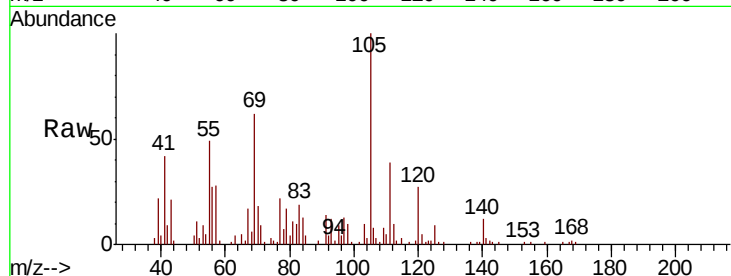
Tot Ion:105 Resp: 15021

Ion Ratio Lower Upper

105 100

120 27.9 21.8 32.6

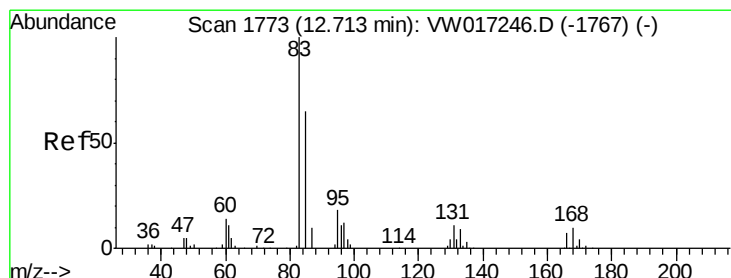
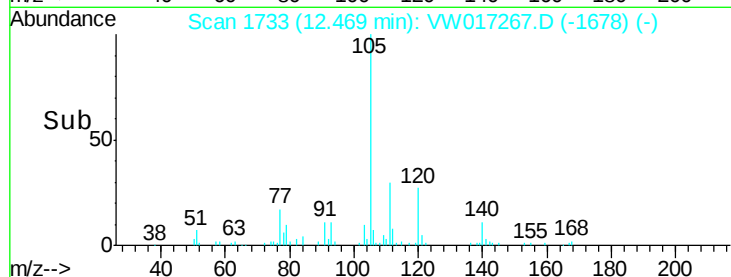
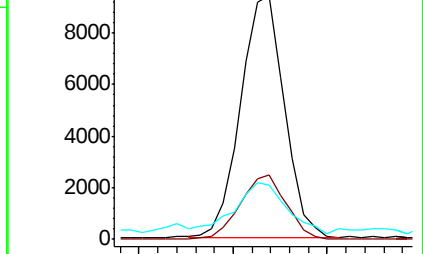
77 24.9 11.4 17.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.254 ug/L

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

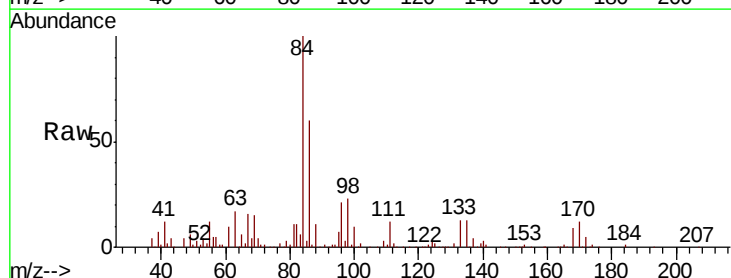
Tgt Ion: 83 Resp: 3456

Ion Ratio Lower Upper

83 100

85 43.0 44.9 83.5#

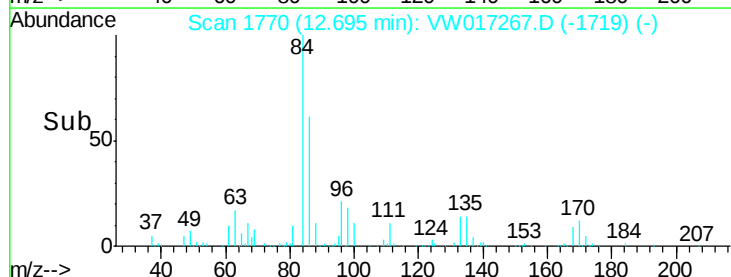
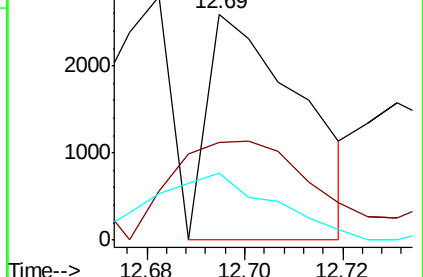
131 29.8 8.8 13.2#

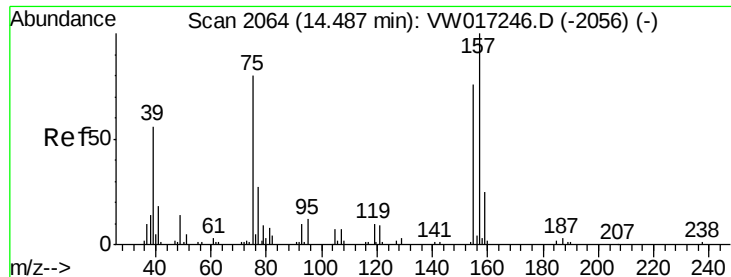


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

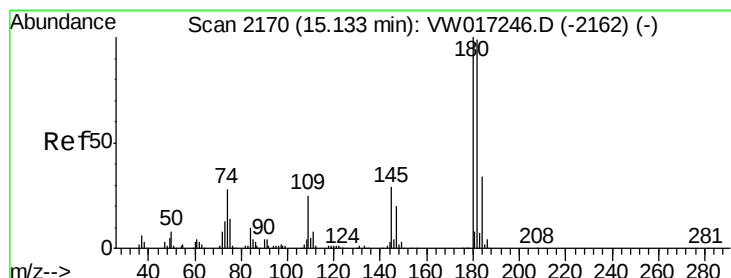
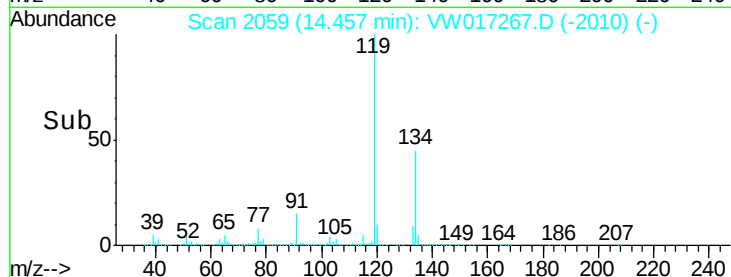
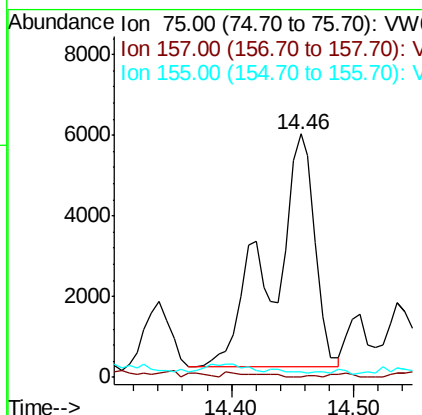
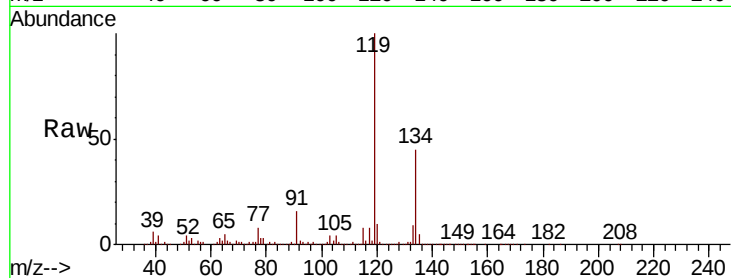




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 60.963 ug/L  
 RT: 14.46 min Scan# 2059  
 Delta R.T. -0.03 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

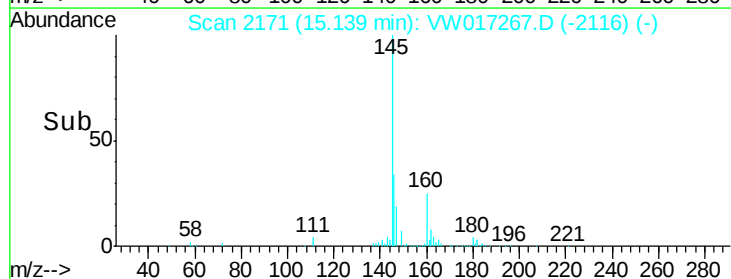
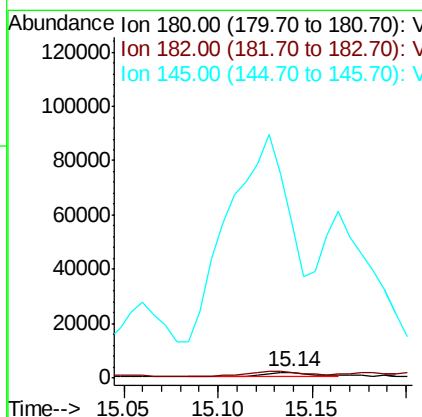
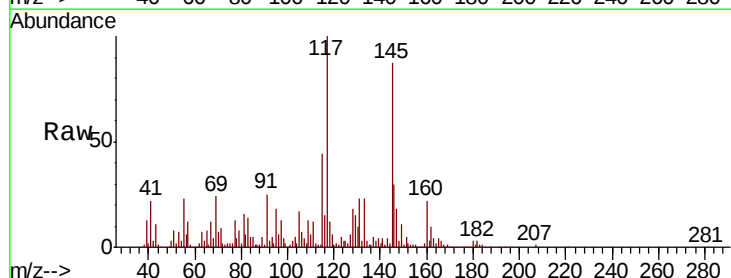
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC2RE

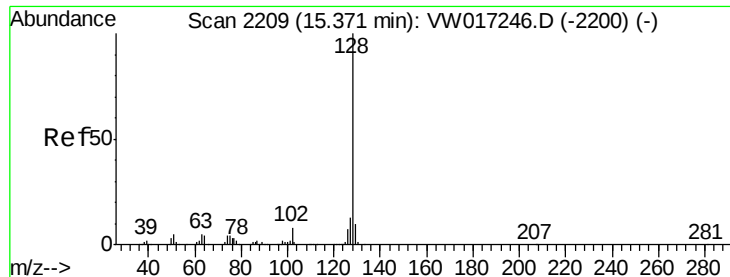
Tot Ion: 75 Resp: 14053  
 Ion Ratio Lower Upper  
 75 100  
 157 0.0 108.2 162.4#  
 155 2.4 79.1 118.7#



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.370 ug/L  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.01 min  
 Lab File: VW017267.D  
 Acq: 16 Nov 2020 19:14

Tgt Ion: 180 Resp: 3115  
 Ion Ratio Lower Upper  
 180 100  
 182 140.6 76.7 115.1#  
 145 7147.8 23.6 35.4#





#69

Naphthalene

Concen: 187.818 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

Instrument :

MSVOA\_W

ClientSampleId :

C0AC2RE

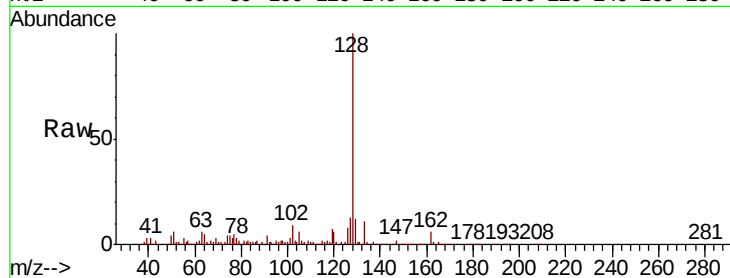
Tot Ion:128 Resp: 785820

Ion Ratio Lower Upper

128 100

129 9.2 8.6 12.8

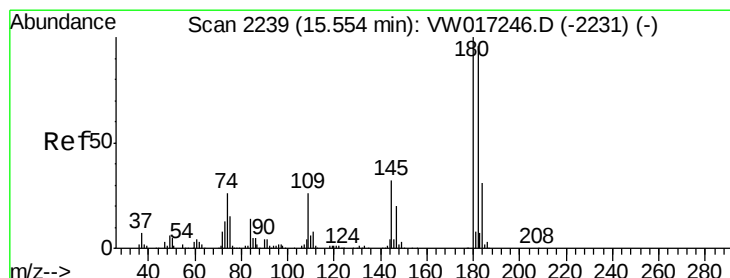
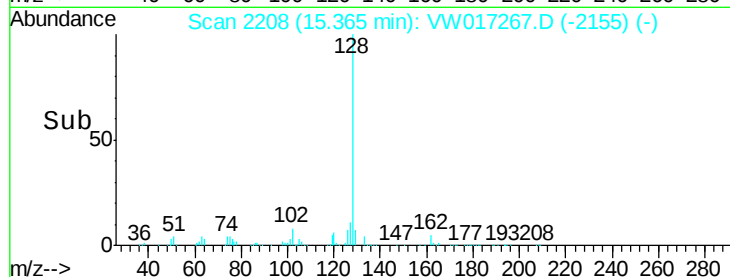
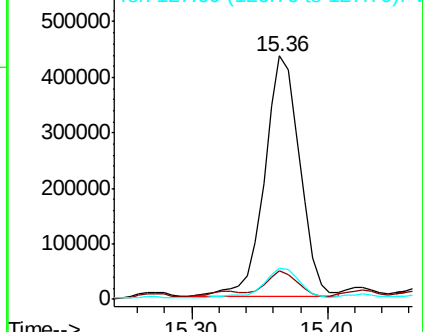
127 13.3 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.585 ug/L

RT: 15.58 min Scan# 2243

Delta R.T. 0.02 min

Lab File: VW017267.D

Acq: 16 Nov 2020 19:14

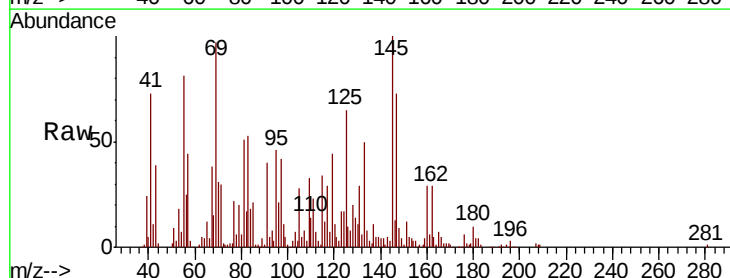
Tgt Ion:180 Resp: 3292

Ion Ratio Lower Upper

180 100

182 17.8 75.5 113.3#

145 5395.1 24.5 36.7#



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

