

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073118\  
 Data File : VV006795.D  
 Acq On : 31 Jul 2018 19:26  
 Operator : SY/MD  
 Sample : J4225-14MSD  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ESWR0MSD

Quant Time: Aug 01 02:55:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072318WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 01 01:43:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 203268   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 185342   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 80595    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 42798    | 4.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.00%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 43880    | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 91812    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.40%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 175745   | 53.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.34% |
| 24) Chloroform-d               | 4.40   | 84    | 104836   | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.60% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 54533    | 5.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 208539   | 5.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71764    | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.60% |
| 41) Toluene-d8                 | 7.36   | 98    | 168362   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 22247    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 106.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 137073   | 51.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.10% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 55518    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 67446    | 5.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 112.20% |

## Target Compounds

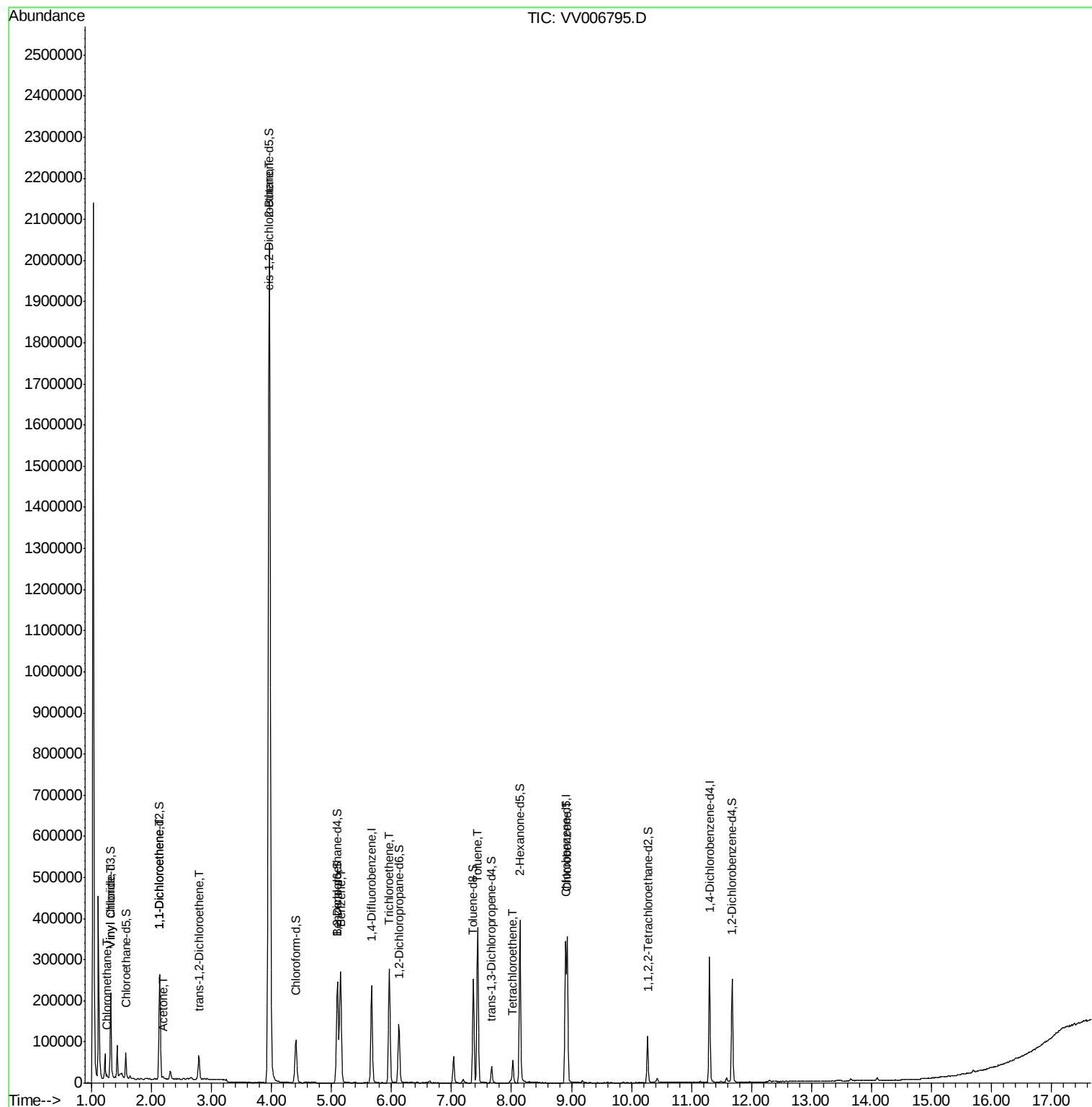
|                              |      |     |         |       |      | Ovalue |
|------------------------------|------|-----|---------|-------|------|--------|
| 3) Chloromethane             | 1.25 | 50  | 9331    | 0.60  | ug/L | 93     |
| 5) Vinyl chloride            | 1.32 | 62  | 82361   | 4.23  | ug/L | 91     |
| 12) 1,1-Dichloroethene       | 2.14 | 96  | 55483   | 4.17  | ug/L | 95     |
| 13) Acetone                  | 2.19 | 43  | 4265    | 2.03  | ug/L | 91     |
| 18) trans-1,2-Dichloroethene | 2.79 | 96  | 20287   | 1.40  | ug/L | 96     |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96  | 1105718 | 73.32 | ug/L | 98     |
| 33) Benzene                  | 5.15 | 78  | 269826  | 4.84  | ug/L | 100    |
| 34) Trichloroethene          | 5.96 | 95  | 95414   | 6.78  | ug/L | 97     |
| 42) Toluene                  | 7.44 | 91  | 274494  | 4.78  | ug/L | 100    |
| 47) Tetrachloroethene        | 8.02 | 164 | 12503   | 1.12  | ug/L | 99     |
| 51) Chlorobenzene            | 8.93 | 112 | 183875  | 4.93  | ug/L | 99     |

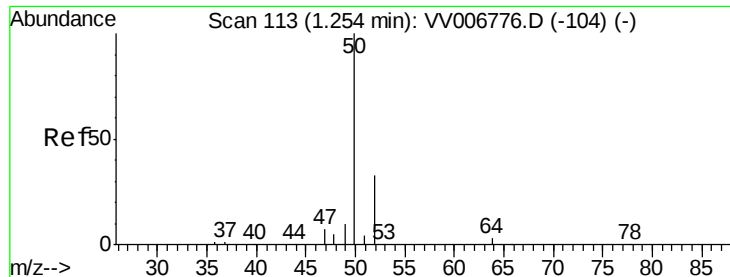
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV073118\  
Data File : VV006795.D  
Acq On : 31 Jul 2018 19:26  
Operator : SY/MD  
Sample : J4225-14MSD  
Misc : 25 mL/MSVOA V/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ESWR0MSD

Quant Time: Aug 01 02:55:30 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072318WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Aug 01 01:43:21 2018  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.60 ug/L

RT: 1.25 min Scan# 113

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Instrument :

MSVOA\_V

ClientSampleId :

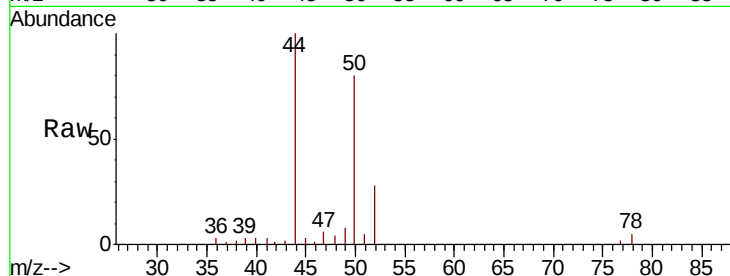
ESWR0MSD

Tot Ion: 50 Resp: 9331

Ion Ratio Lower Upper

50 100

52 35.7 22.1 41.1



Abundance Ion 50.05 (49.75 to 50.75): VV006776.D (-104) (-)

Ion 52.05 (51.75 to 52.75): VV006795.D (-20) (-)

1.25

8000

6000

4000

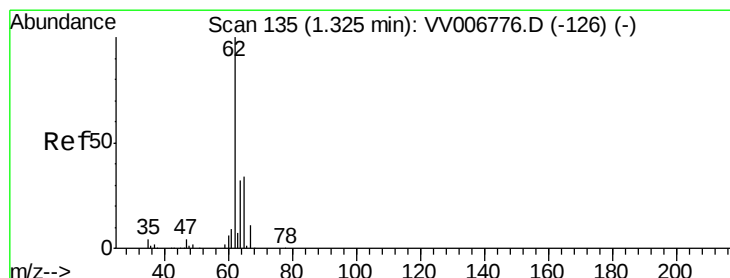
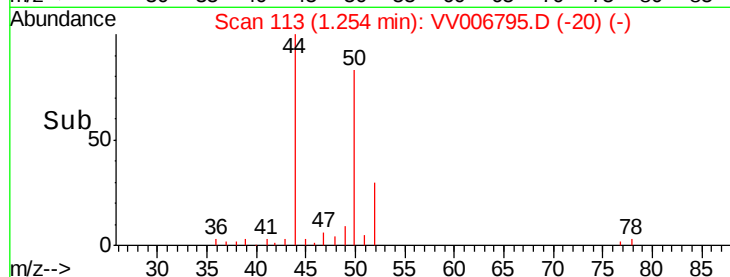
2000

0

Time-->

1.25

1.30



#5

Vinyl chloride

Concen: 4.23 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006795.D

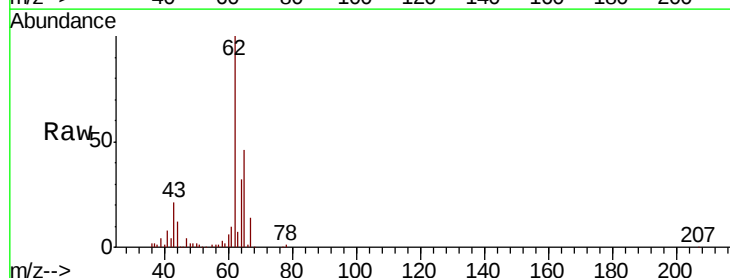
Acq: 31 Jul 2018 19:26

Tgt Ion: 62 Resp: 82361

Ion Ratio Lower Upper

62 100

64 32.3 26.5 49.3



Abundance Ion 62.00 (61.70 to 62.70): VV006776.D (-126) (-)

Ion 64.10 (63.80 to 64.80): VV006795.D (-42) (-)

1.32

80000

60000

40000

20000

0

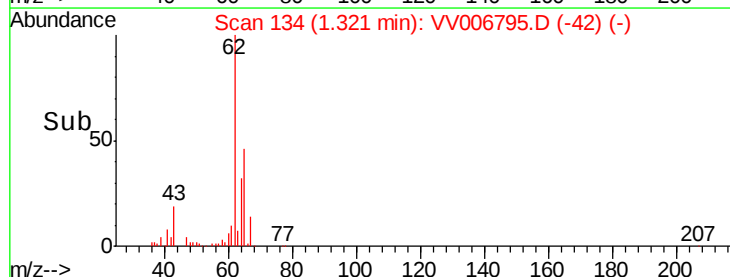
Time-->

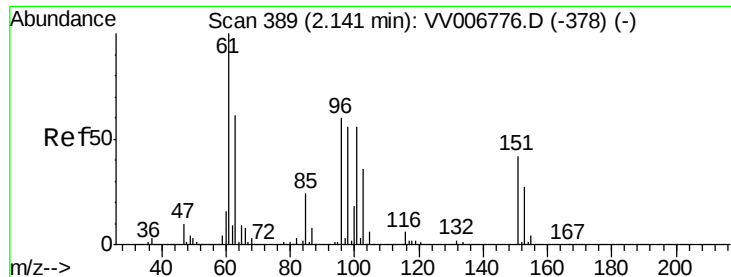
1.25

1.30

1.35

1.40





#12

1,1-Dichloroethene

Concen: 4.17 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Instrument :

MSVOA\_V

ClientSampleId :

ESWR0MSD

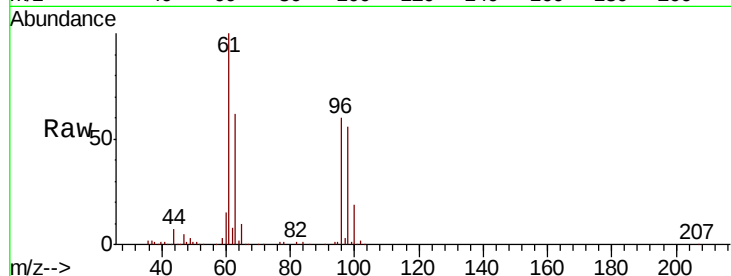
Tot Ion: 96 Resp: 55483

Ion Ratio Lower Upper

96 100

61 168.0 113.5 210.9

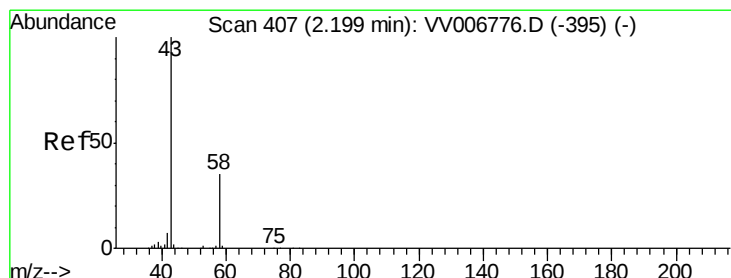
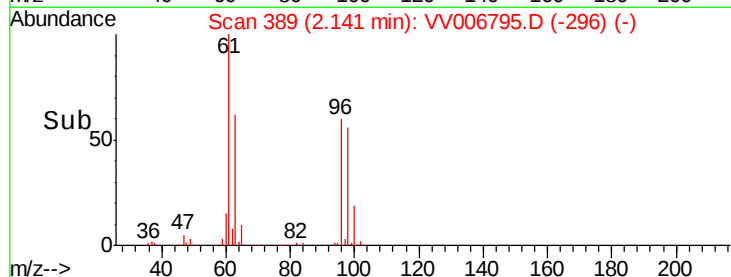
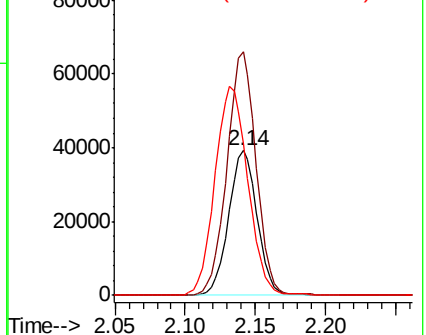
63 104.8 69.5 129.1



Abundance Ion 96.00 (95.70 to 96.70): VV006795.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VV006795.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VV006795.D (-296) (-)



#13

Acetone

Concen: 2.03 ug/L

RT: 2.19 min Scan# 404

Delta R.T. -0.01 min

Lab File: VV006795.D

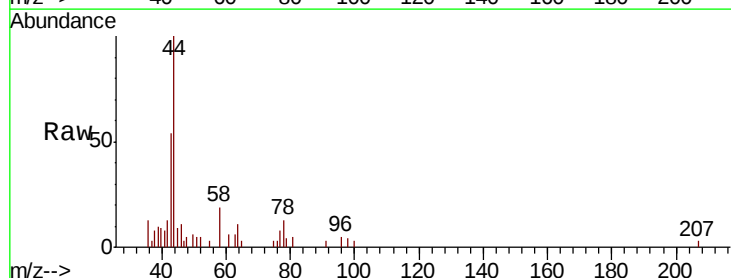
Acq: 31 Jul 2018 19:26

Tgt Ion: 43 Resp: 4265

Ion Ratio Lower Upper

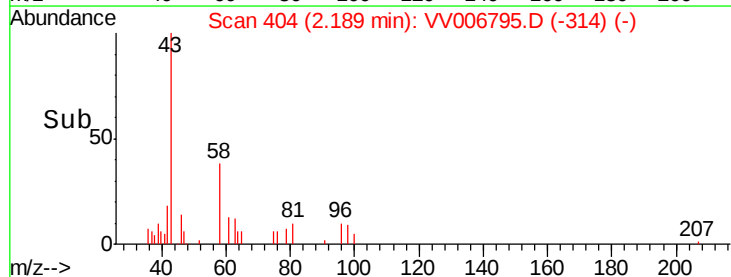
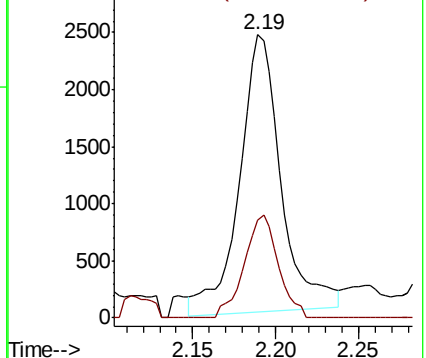
43 100

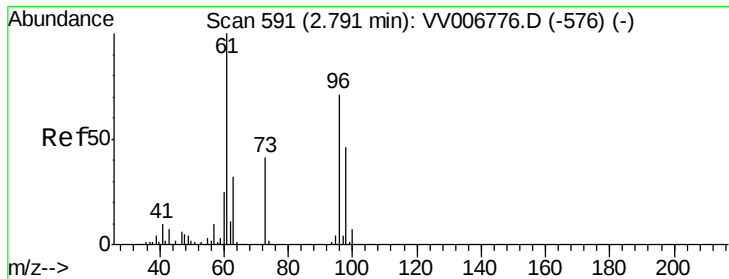
58 30.2 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006795.D (-314) (-)

Ion 58.05 (57.75 to 58.75): VV006795.D (-314) (-)





#18

trans-1,2-Dichloroethene

Concen: 1.40 ug/L

RT: 2.79 min Scan# 591

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Instrument :

MSVOA\_V

ClientSampleId :

ESWR0MSD

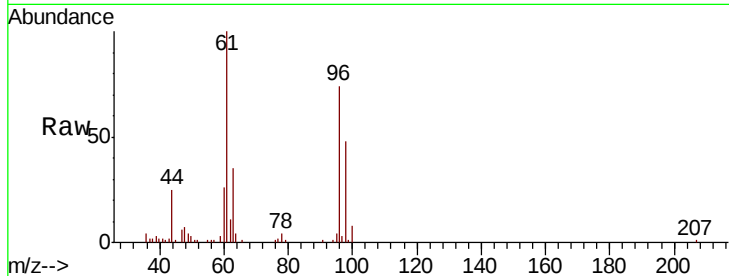
Tot Ion: 96 Resp: 20287

Ion Ratio Lower Upper

96 100

61 134.9 98.5 182.9

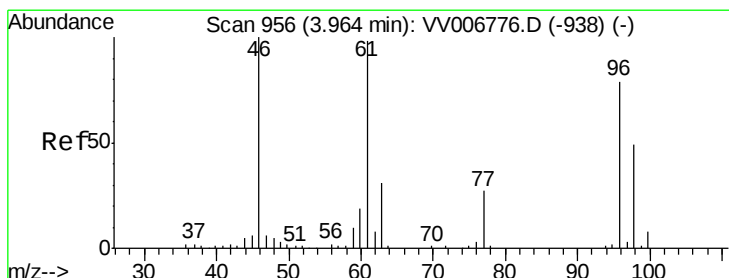
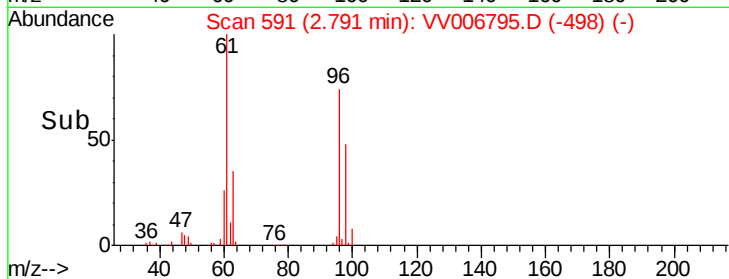
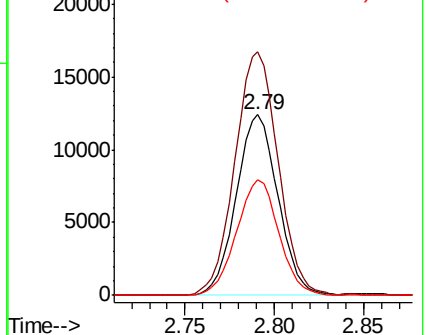
98 64.3 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VV006776.D (-576) (-)

Ion 61.05 (60.75 to 61.75): VV006776.D (-576) (-)

Ion 97.95 (97.65 to 98.65): VV006776.D (-576) (-)



#22

cis-1,2-Dichloroethene

Concen: 73.32 ug/L

RT: 3.96 min Scan# 956

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

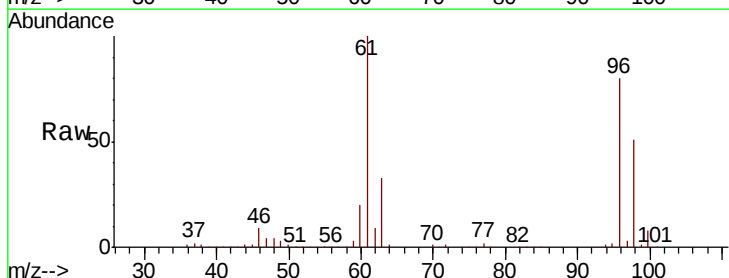
Tgt Ion: 96 Resp: 1105718

Ion Ratio Lower Upper

96 100

61 124.3 85.5 158.9

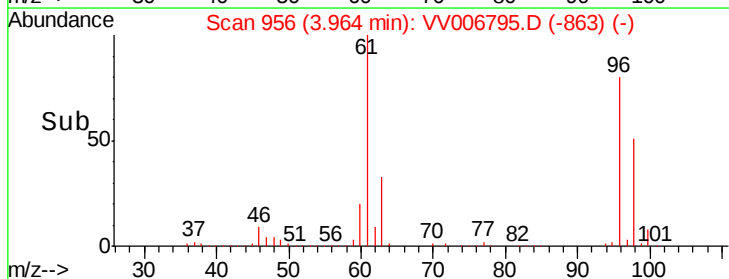
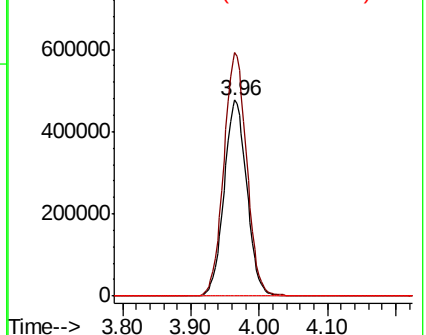
68 0.0 0.0 0.0

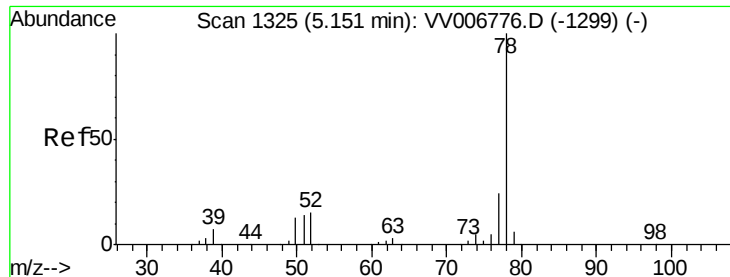


Abundance Ion 96.00 (95.70 to 96.70): VV006776.D (-938) (-)

Ion 61.05 (60.75 to 61.75): VV006776.D (-938) (-)

Ion 68.15 (67.85 to 68.85): VV006776.D (-938) (-)





#33

Benzene

Concen: 4.84 ug/L

RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

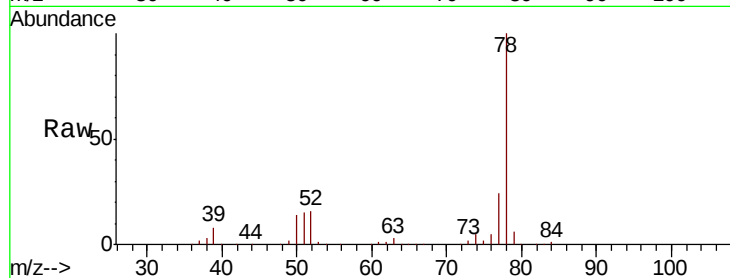
Instrument :

MSVOA\_V

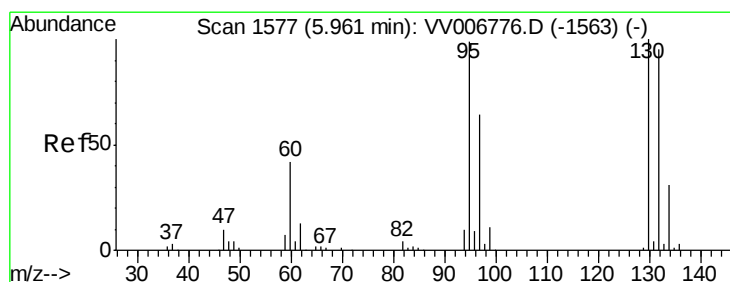
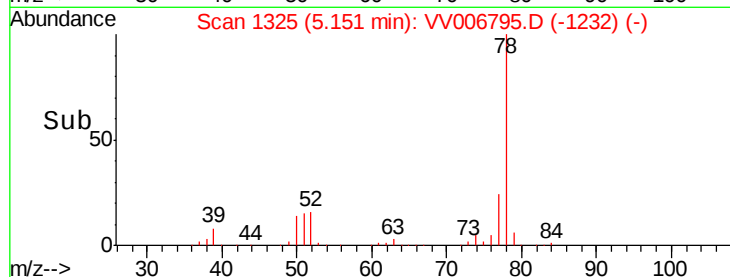
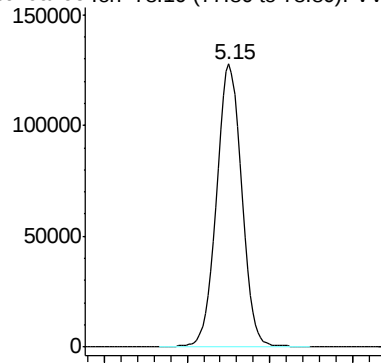
ClientSampleId :

ESWR0MSD

Tgt Ion: 78 Resp: 269826



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 6.78 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Tgt Ion: 95 Resp: 95414

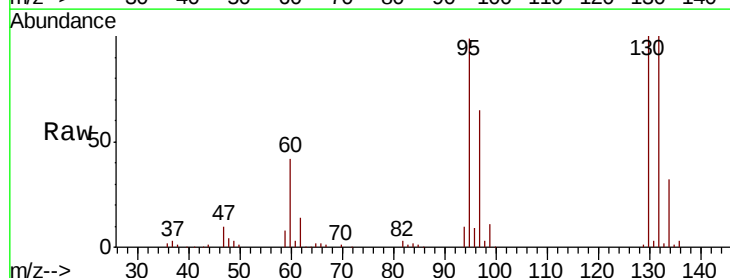
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.6  | 44.9  | 83.3  |
| 132 | 101.4 | 68.9  | 127.9 |
| 130 | 101.4 | 73.4  | 136.4 |

95 100

97 65.6 44.9 83.3

132 101.4 68.9 127.9

130 101.4 73.4 136.4

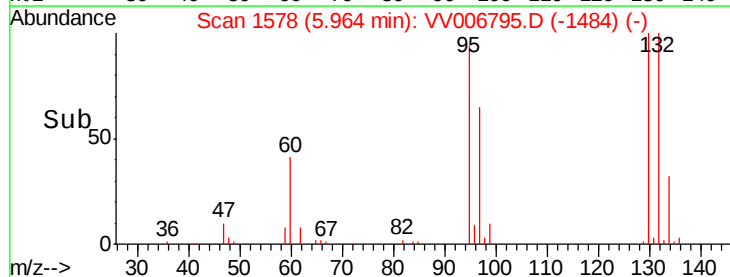
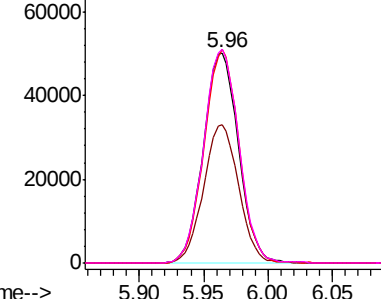


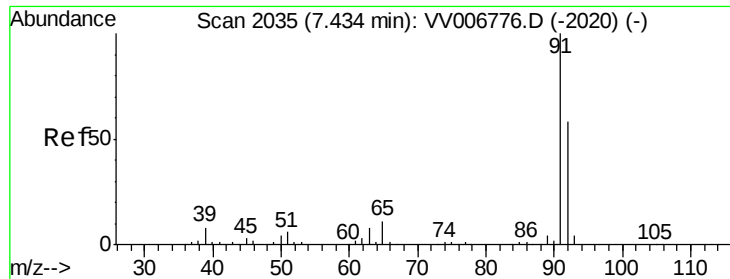
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 4.78 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Instrument :

MSVOA\_V

ClientSampleId :

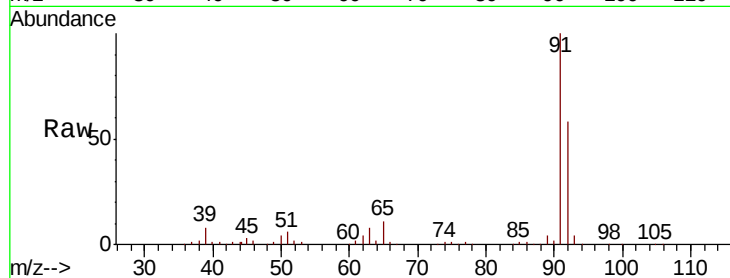
ESWR0MSD

Tot Ion: 91 Resp: 274494

Ion Ratio Lower Upper

91 100

92 58.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV006776.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VV006776.D (-2020) (-)

7.44

150000

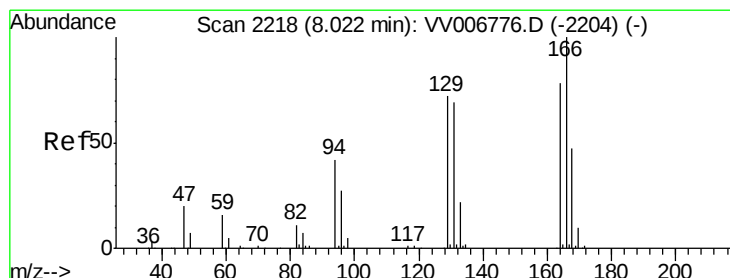
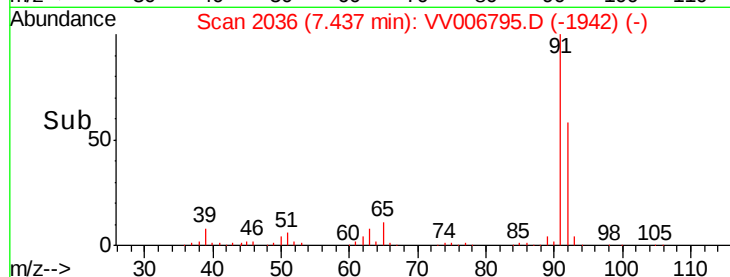
100000

50000

0

7.35 7.40 7.45 7.50

Time-->



#47

Tetrachloroethene

Concen: 1.12 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV006795.D

Acq: 31 Jul 2018 19:26

Tgt Ion:164 Resp: 12503

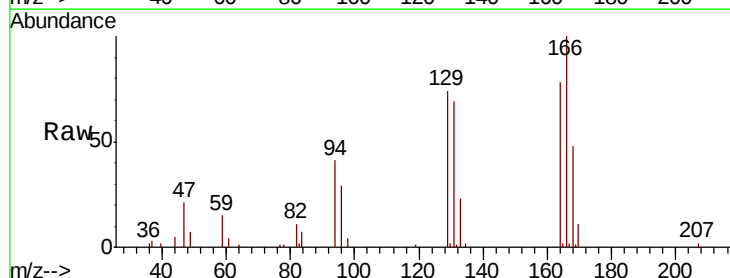
Ion Ratio Lower Upper

164 100

129 94.4 65.0 120.8

131 88.7 61.9 115.1

166 128.4 89.3 165.9



Abundance Ion 163.90 (163.60 to 164.60): VV006776.D (-2204) (-)

Ion 128.95 (128.65 to 129.65): VV006776.D (-2204) (-)

Ion 130.95 (130.65 to 131.65): VV006776.D (-2204) (-)

Ion 165.90 (165.60 to 166.60): VV006776.D (-2204) (-)

15000

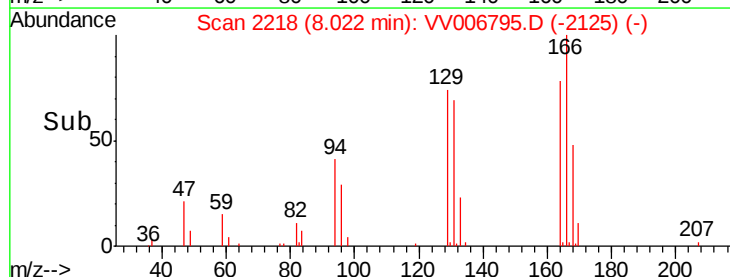
10000

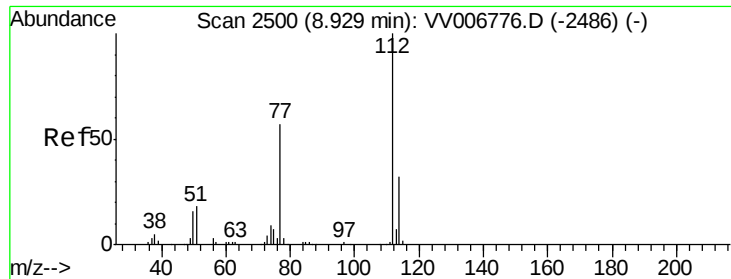
5000

0

7.95 8.00 8.05

Time-->





#51  
 Chlorobenzene  
 Concen: 4.93 ug/L  
 RT: 8.93 min Scan# 2500  
 Delta R.T. -0.00 min  
 Lab File: VV006795.D  
 Acq: 31 Jul 2018 19:26

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ESWR0MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 112   | Resp: | 183875 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.5  | 22.5  | 41.9   |
| 77       | 58.6  | 46.2  | 69.2   |

