

Data File : VV013716.D  
Acq On : 21 Nov 2019 16:18  
Operator : SY/MD  
Sample : K5941-09 10X  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
B0AC1

Quant Time: Nov 22 04:00:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR111519WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 22 03:55:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 317567   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 310758   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 145990   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 119443   | 6.09     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 121.80%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 113884   | 6.50     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 130.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 178707   | 5.08     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 324536   | 71.54    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 143.08%# |
| 24) Chloroform-d               | 4.40   | 84    | 265191   | 6.12     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 122.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 135607   | 6.51     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 130.20%# |
| 32) Benzene-d6                 | 5.09   | 84    | 526514   | 6.08     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 121.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 161283   | 6.30     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 126.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 456028   | 5.66     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 113.20%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 55061    | 5.59     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 111.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 231111   | 61.99    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 123.98%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 118788   | 6.42     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 128.40%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 185572   | 6.61     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 132.20%# |

#### Target Compounds

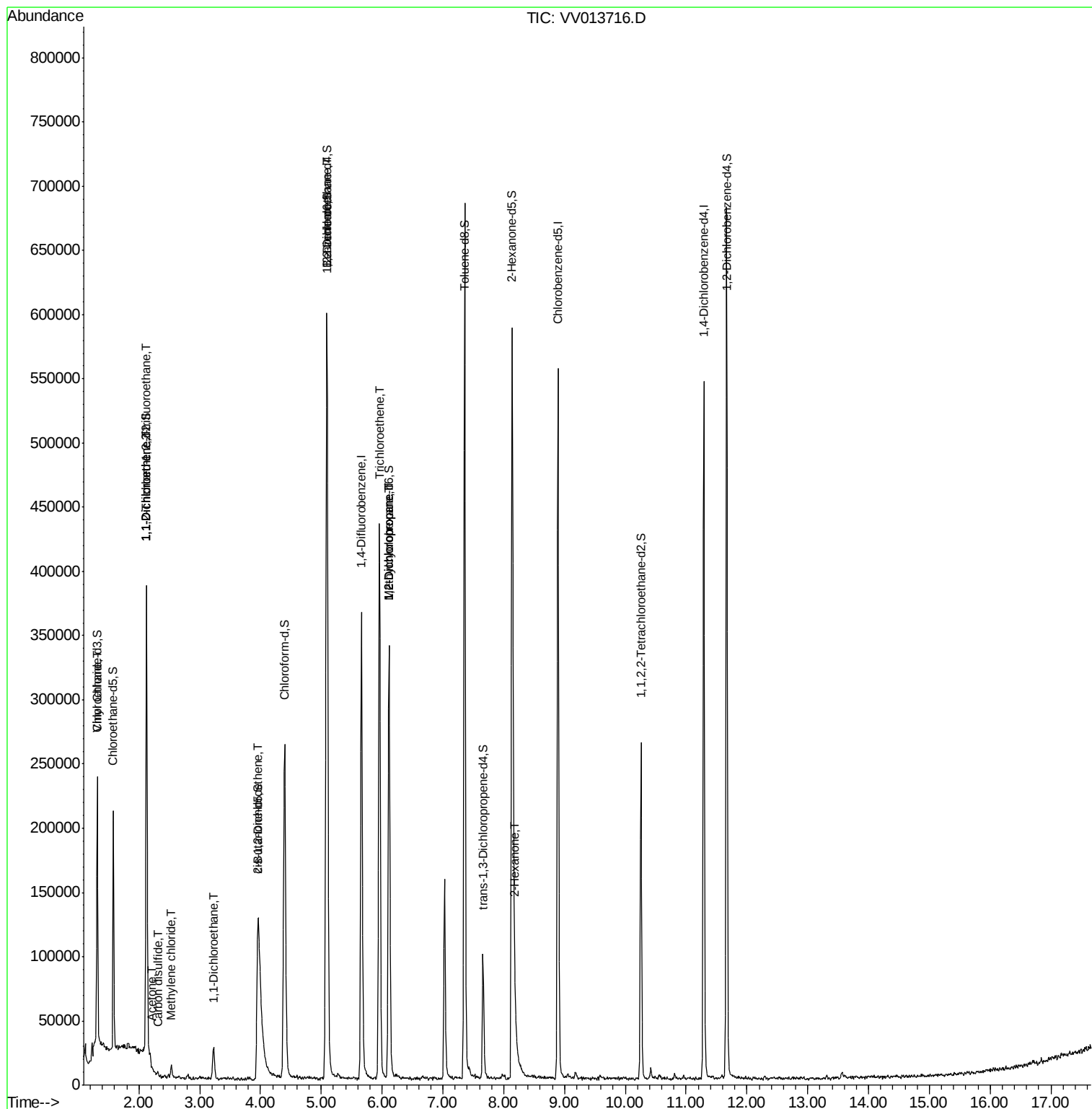
|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 8) Chloroethane                | 1.32 | 64  | 6418   | 0.427 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 2256   | 0.115 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 16692  | 0.880 ug/L # | 1      |
| 13) Acetone                    | 2.22 | 43  | 4392   | 1.534 ug/L # | 74     |
| 14) Carbon disulfide           | 2.32 | 76  | 2889   | 0.044 ug/L   | 97     |
| 16) Methylene chloride         | 2.53 | 84  | 3708   | 0.141 ug/L   | 87     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 23518  | 0.563 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 2934   | 0.121 ug/L # | 78     |
| 27) 1,2-Dichloroethane         | 5.10 | 62  | 2991   | 0.119 ug/L   | 99     |
| 34) Trichloroethene            | 5.96 | 95  | 144631 | 5.745 ug/L   | 98     |
| 35) Methylcyclohexane          | 6.11 | 83  | 40090  | 1.044 ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.11 | 63  | 17439  | 0.774 ug/L # | 86     |
| 48) 2-Hexanone                 | 8.19 | 43  | 11925  | 1.283 ug/L # | 43     |

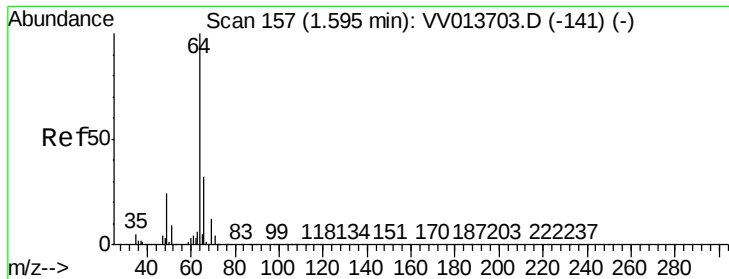
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 22 03:55:18 2019  
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.427 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.28 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

Instrument :

MSVOA\_V

ClientSampled :

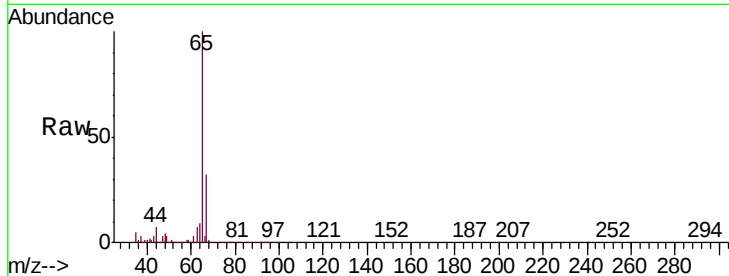
B0AC1

Tgt Ion: 64 Resp: 6418

Ion Ratio Lower Upper

64 100

66 30.5 21.9 40.7



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

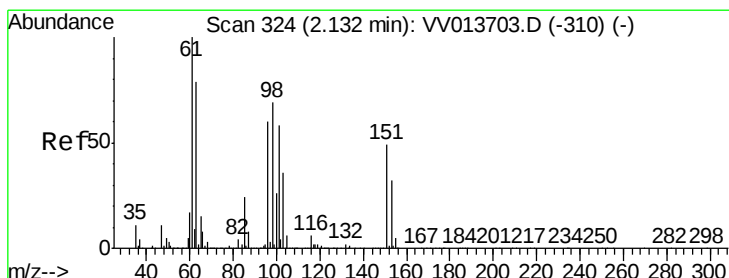
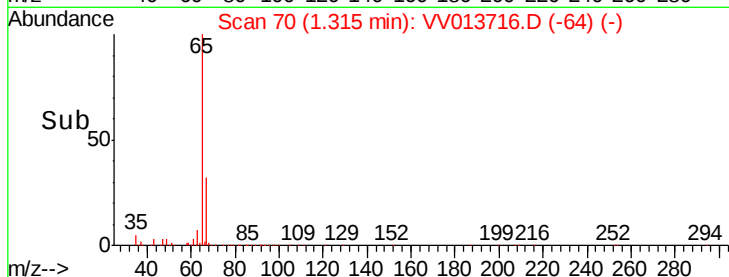
1.32

10000

5000

0

Time-->



#10

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

Concen: 0.115 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

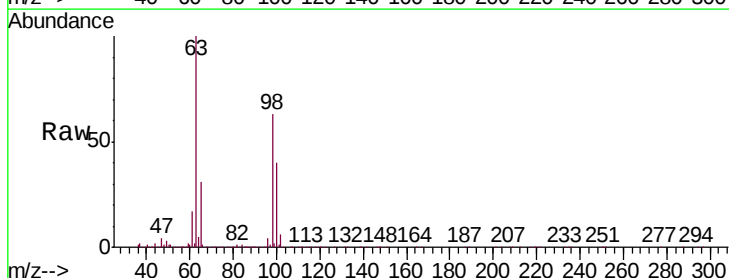
Tgt Ion: 101 Resp: 2256

Ion Ratio Lower Upper

101 100

85 3.5 32.0 48.0#

151 4.5 69.0 103.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V

2.12

2000

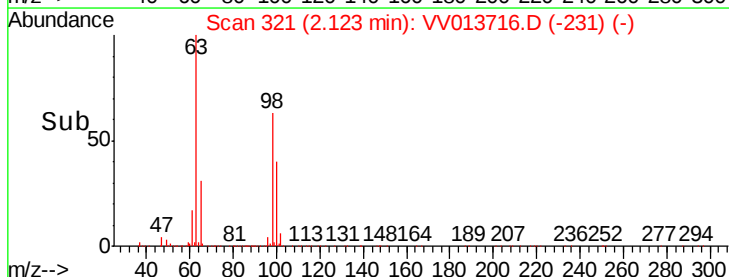
1500

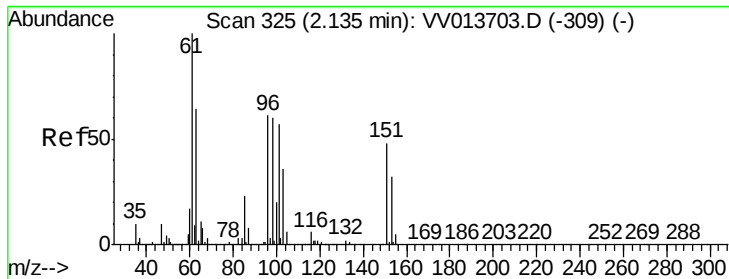
1000

500

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.880 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

Instrument :

MSVOA\_V

ClientSampleId :

B0AC1

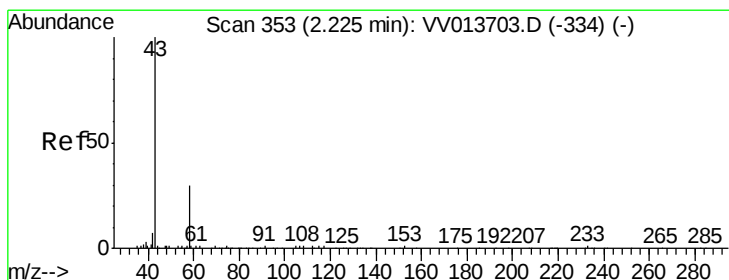
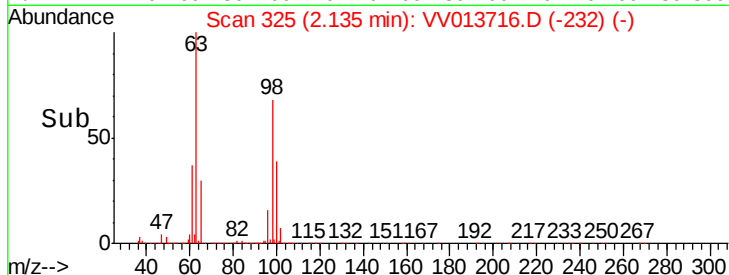
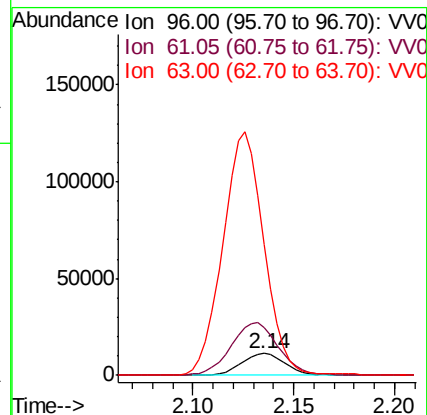
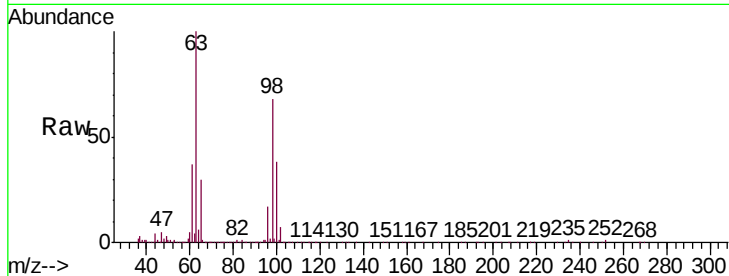
Tgt Ion: 96 Resp: 16692

Ion Ratio Lower Upper

96 100

61 221.6 112.5 208.9#

63 602.6 76.9 142.7#



#13

Acetone

Concen: 1.534 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.00 min

Lab File: VV013716.D

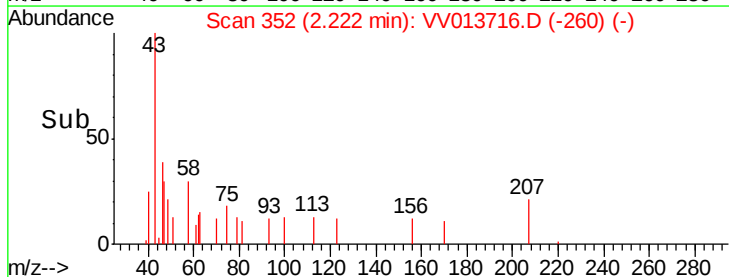
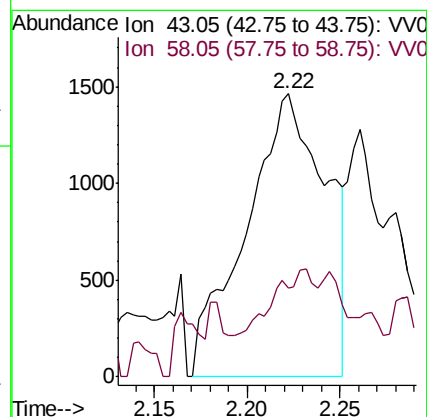
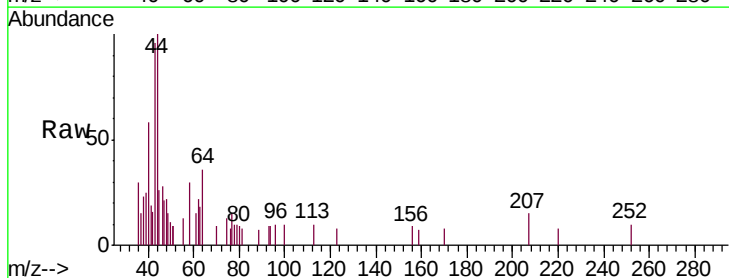
Acq: 21 Nov 2019 16:18

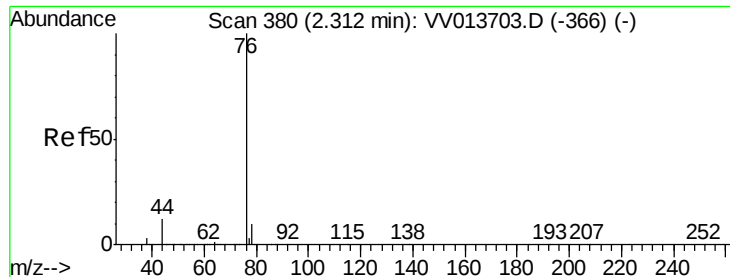
Tgt Ion: 43 Resp: 4392

Ion Ratio Lower Upper

43 100

58 17.9 0.0 17.0#





#14

Carbon disulfide

Concen: 0.044 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

Instrument :

MSVOA\_V

ClientSampleId :

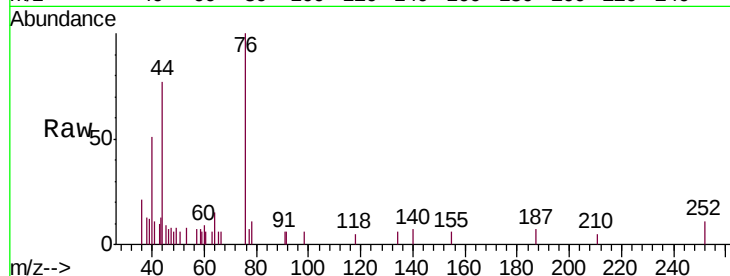
B0AC1

Tgt Ion: 76 Resp: 2889

Ion Ratio Lower Upper

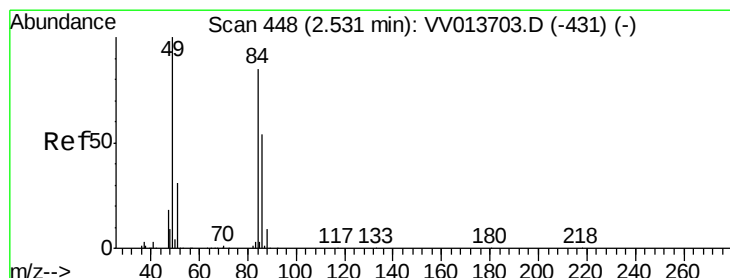
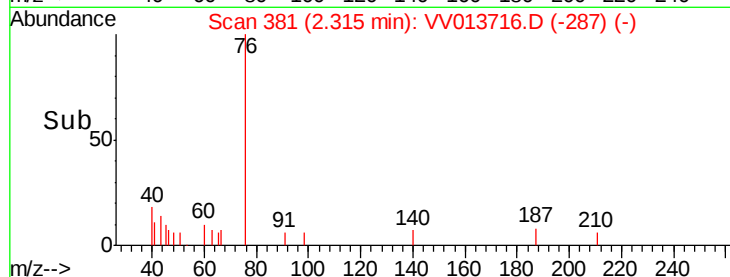
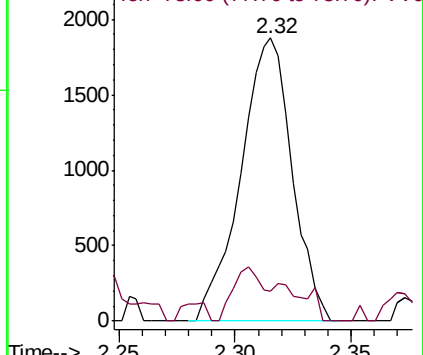
76 100

78 10.6 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.141 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

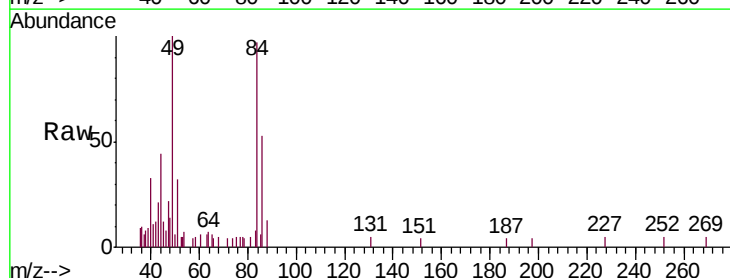
Tgt Ion: 84 Resp: 3708

Ion Ratio Lower Upper

84 100

86 54.6 44.1 81.9

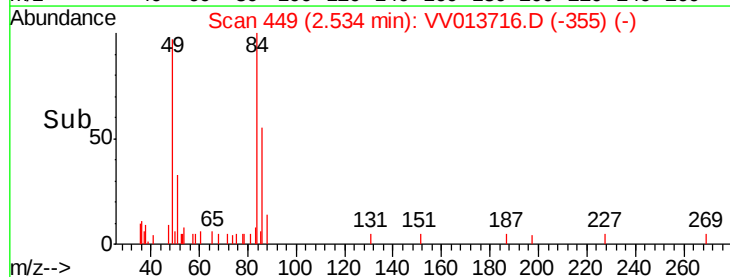
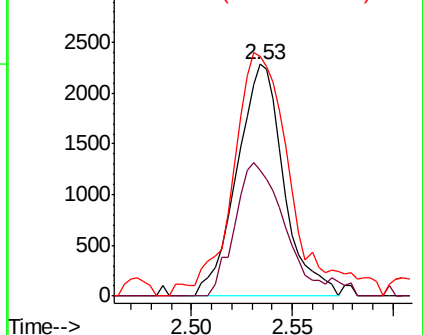
49 103.4 83.4 155.0

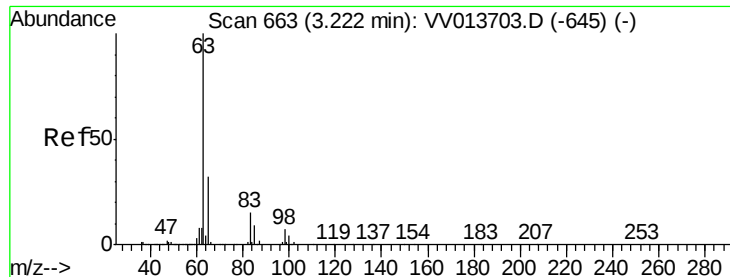


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

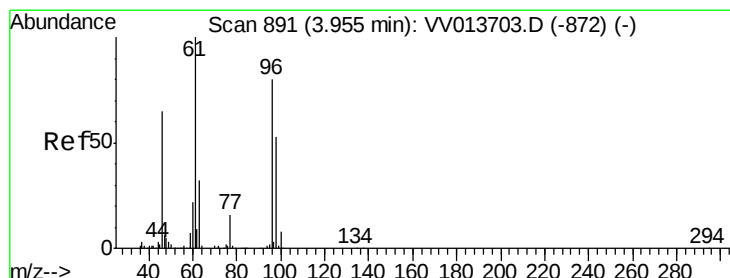
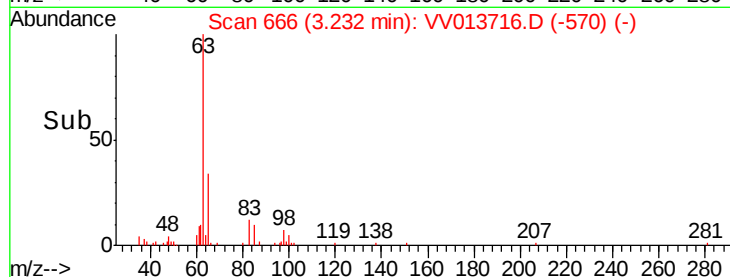
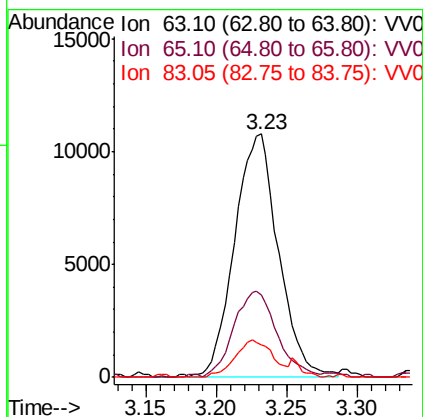
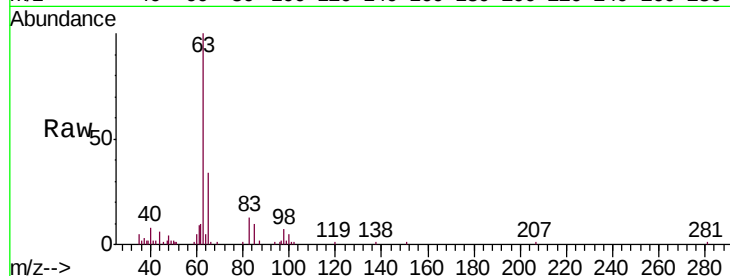




#19  
 1,1-Dichloroethane  
 Concen: 0.563 ug/L  
 RT: 3.23 min Scan# 666  
 Delta R.T. 0.01 min  
 Lab File: VV013716.D  
 Acq: 21 Nov 2019 16:18

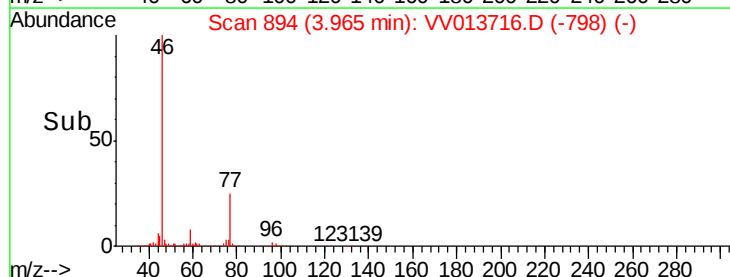
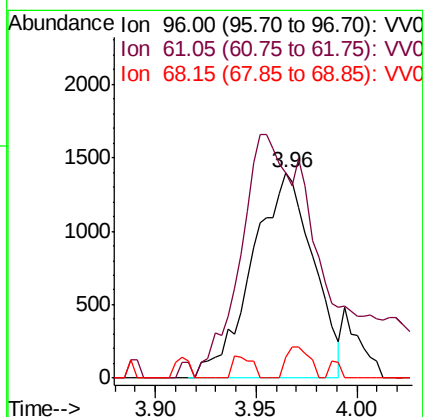
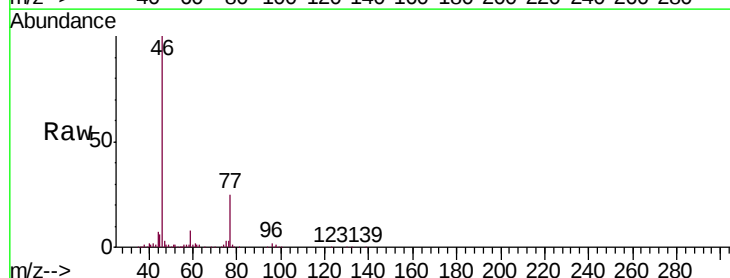
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 B0AC1

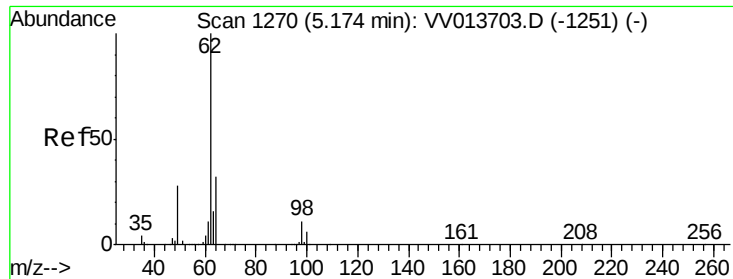
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 23518 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 34.0  | 22.5  | 41.7  |
| 83       | 13.2  | 9.7   | 17.9  |



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.121 ug/L  
 RT: 3.96 min Scan# 894  
 Delta R.T. 0.01 min  
 Lab File: VV013716.D  
 Acq: 21 Nov 2019 16:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2934  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 100.1 | 87.7  | 162.9 |
| 68       | 9.9   | 0.1   | 0.3#  |

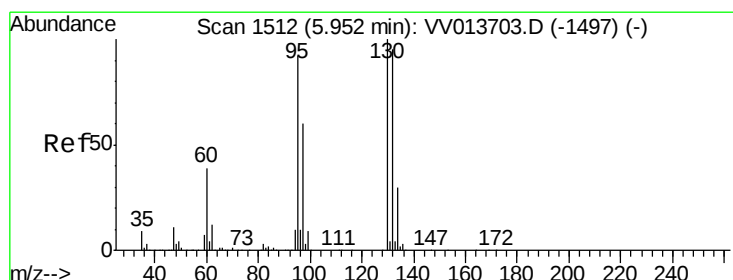
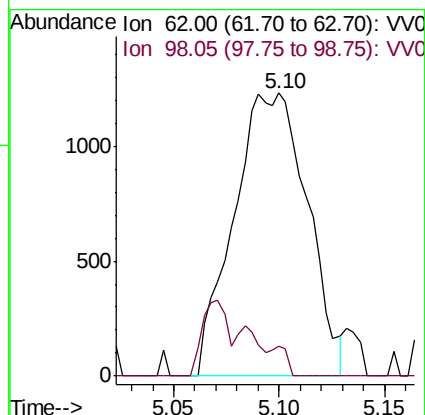
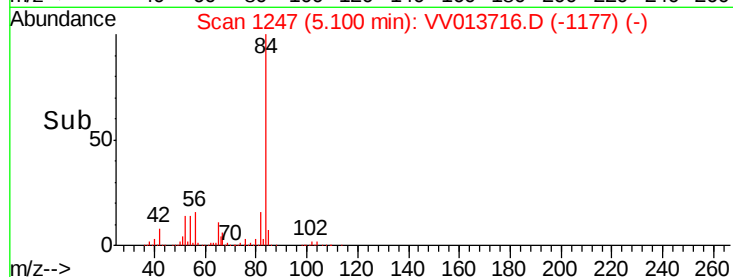
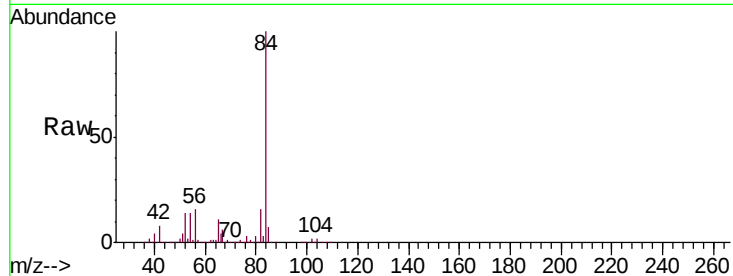




#27  
 1,2-Dichloroethane  
 Concen: 0.119 ug/L  
 RT: 5.10 min Scan# 1247  
 Delta R.T. -0.07 min  
 Lab File: VV013716.D  
 Acq: 21 Nov 2019 16:18

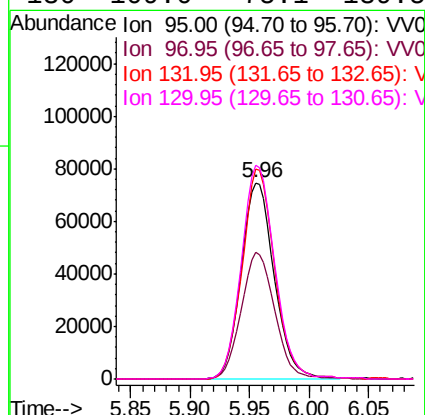
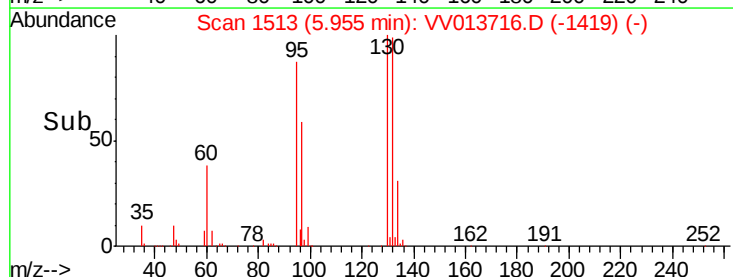
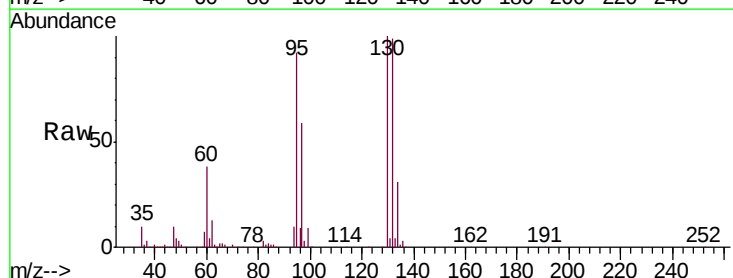
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 MSVOA\_V  
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 B0AC1

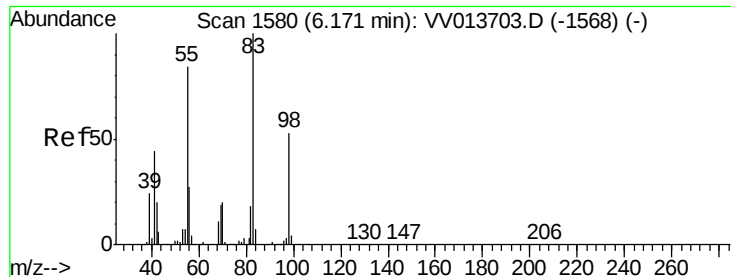
Tgt Ion: 62 Resp: 2991  
 Ion Ratio Lower Upper  
 62 100  
 98 10.7 8.2 12.2



#34  
 Trichloroethene  
 Concen: 5.745 ug/L  
 RT: 5.96 min Scan# 1513  
 Delta R.T. 0.00 min  
 Lab File: VV013716.D  
 Acq: 21 Nov 2019 16:18

Tgt Ion: 95 Resp: 144631  
 Ion Ratio Lower Upper  
 95 100  
 97 64.5 44.8 83.2  
 132 107.5 72.9 135.3  
 130 109.0 75.1 139.5

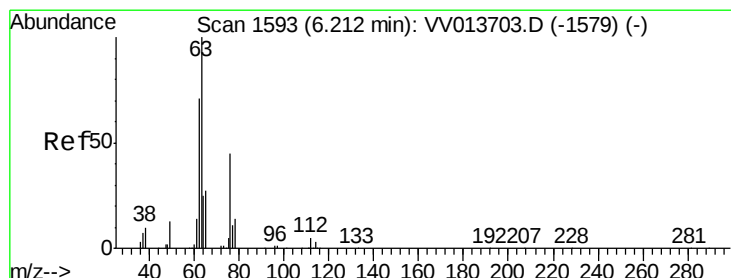
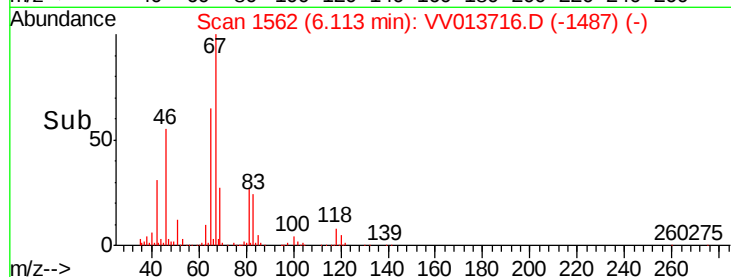
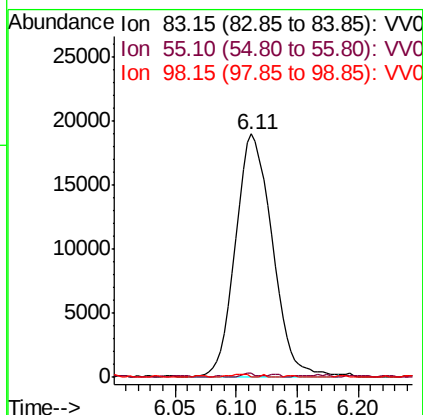
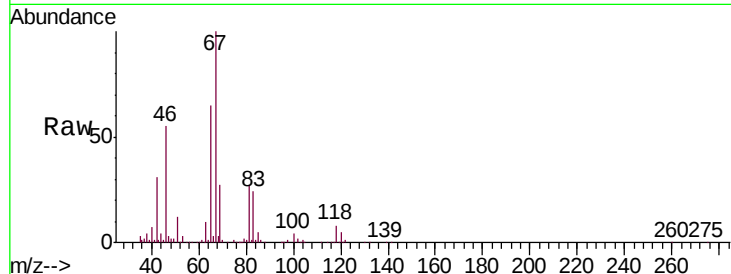




#35  
Methylcyclohexane  
Concen: 1.044 ug/L  
RT: 6.11 min Scan# 1562  
Delta R.T. -0.06 min  
Lab File: VV013716.D  
Acq: 21 Nov 2019 16:18

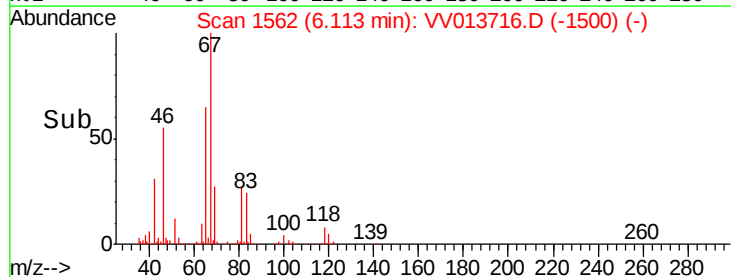
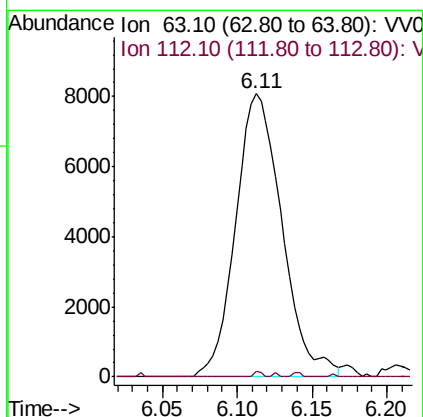
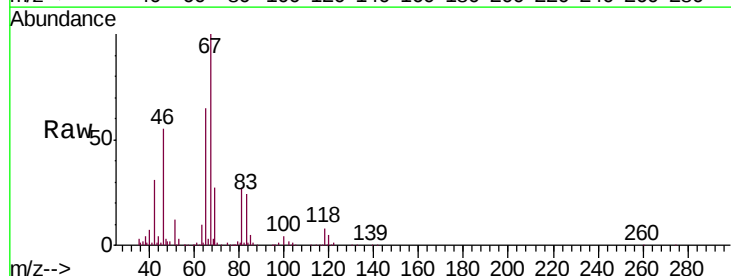
Instrument :  
MSVOA\_V  
ClientSampleId :  
B0AC1

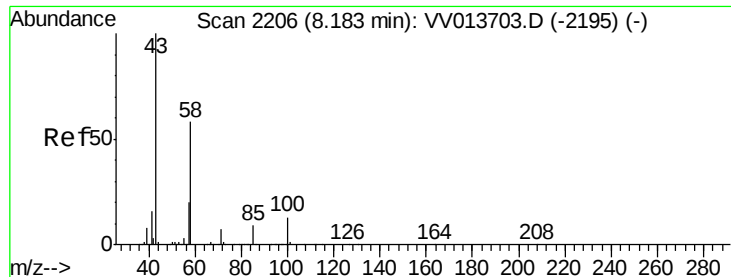
Tgt Ion: 83 Resp: 40090  
Ion Ratio Lower Upper  
83 100  
55 0.6 64.1 96.1#  
98 0.7 38.2 57.2#



#37  
1,2-Dichloropropane  
Concen: 0.774 ug/L  
RT: 6.11 min Scan# 1562  
Delta R.T. -0.10 min  
Lab File: VV013716.D  
Acq: 21 Nov 2019 16:18

Tgt Ion: 63 Resp: 17439  
Ion Ratio Lower Upper  
63 100  
112 0.3 4.1 6.1#





#48

2-Hexanone

Concen: 1.283 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV013716.D

Acq: 21 Nov 2019 16:18

Instrument :  
MSVOA\_V  
ClientSampleId :  
B0AC1

Tgt Ion: 43 Resp: 11925

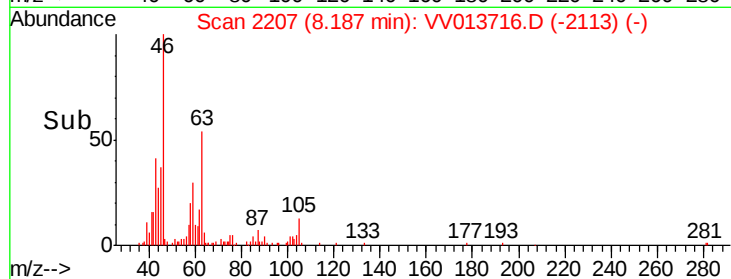
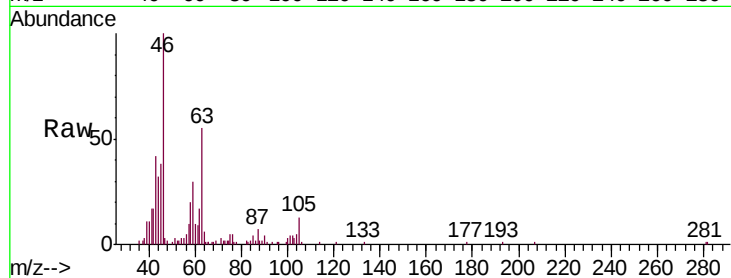
Ion Ratio Lower Upper

43 100

58 0.0 43.0 64.6#

57 0.0 15.4 23.2#

100 11.9 10.1 15.1



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

