

Data File : VR026631.D  
Acq On : 13 Sep 2019 11:00  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

Quant Time: Sep 14 06:48:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR091219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 13 05:35:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.48  | 114  | 399523   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.30 | 117  | 316360   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.24 | 152  | 147911   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.18   | 65    | 42995    | 3.92     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 78.40% |
| 7) Chloroethane-d5             | 2.64   | 69    | 40959    | 4.22     | ug/L | 0.01   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.40% |
| 11) 1,1-Dichloroethene-d2      | 3.65   | 63    | 136193   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.80% |
| 20) 2-Butanone-d5              | 6.62   | 46    | 100321   | 42.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 84.28% |
| 24) Chloroform-d               | 7.22   | 84    | 192942   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40% |
| 26) 1,2-Dichloroethane-d4      | 7.91   | 65    | 60810    | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.00% |
| 32) Benzene-d6                 | 7.87   | 84    | 352211   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40% |
| 36) 1,2-Dichloropropane-d6     | 8.91   | 67    | 93236    | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20% |
| 41) Toluene-d8                 | 9.99   | 98    | 285416   | 4.78     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.60% |
| 43) trans-1,3-Dichloropropene- | 10.25  | 79    | 19837    | 4.16     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.20% |
| 46) 2-Hexanone-d5              | 10.60  | 63    | 67308    | 46.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.90% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.38  | 84    | 50626    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.20% |
| 64) 1,2-Dichlorobenzene-d4     | 13.53  | 152   | 82451    | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 87.80% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.85 | 85  | 220794 | 4.889 ug/L   | 100    |
| 3) Chloromethane               | 2.06 | 50  | 94805  | 4.021 ug/L   | 99     |
| 5) Vinyl chloride              | 2.20 | 62  | 97187  | 4.113 ug/L   | 95     |
| 6) Bromomethane                | 2.54 | 94  | 65122  | 4.387 ug/L   | 95     |
| 8) Chloroethane                | 2.67 | 64  | 55144  | 4.046 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 2.99 | 101 | 198802 | 4.864 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 88467  | 4.938 ug/L   | 100    |
| 12) 1,1-Dichloroethene         | 3.66 | 96  | 80022  | 4.540 ug/L   | 90     |
| 13) Acetone                    | 3.72 | 43  | 78949  | 44.094 ug/L  | 96     |
| 14) Carbon disulfide           | 3.97 | 76  | 329720 | 4.370 ug/L # | 95     |
| 15) Methyl Acetate             | 4.22 | 43  | 30713  | 4.084 ug/L # | 86     |
| 16) Methylene chloride         | 4.43 | 84  | 153204 | 4.178 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 4.93 | 73  | 160608 | 4.216 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 4.90 | 96  | 159833 | 4.340 ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 5.72 | 63  | 290195 | 4.202 ug/L   | 97     |
| 21) 2-Butanone                 | 6.71 | 43  | 142109 | 43.449 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 6.70 | 96  | 157569 | 4.464 ug/L   | 87     |

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QLast Update : Fri Sep 13 05:35:59 2019  
Response via : Initial Calibration

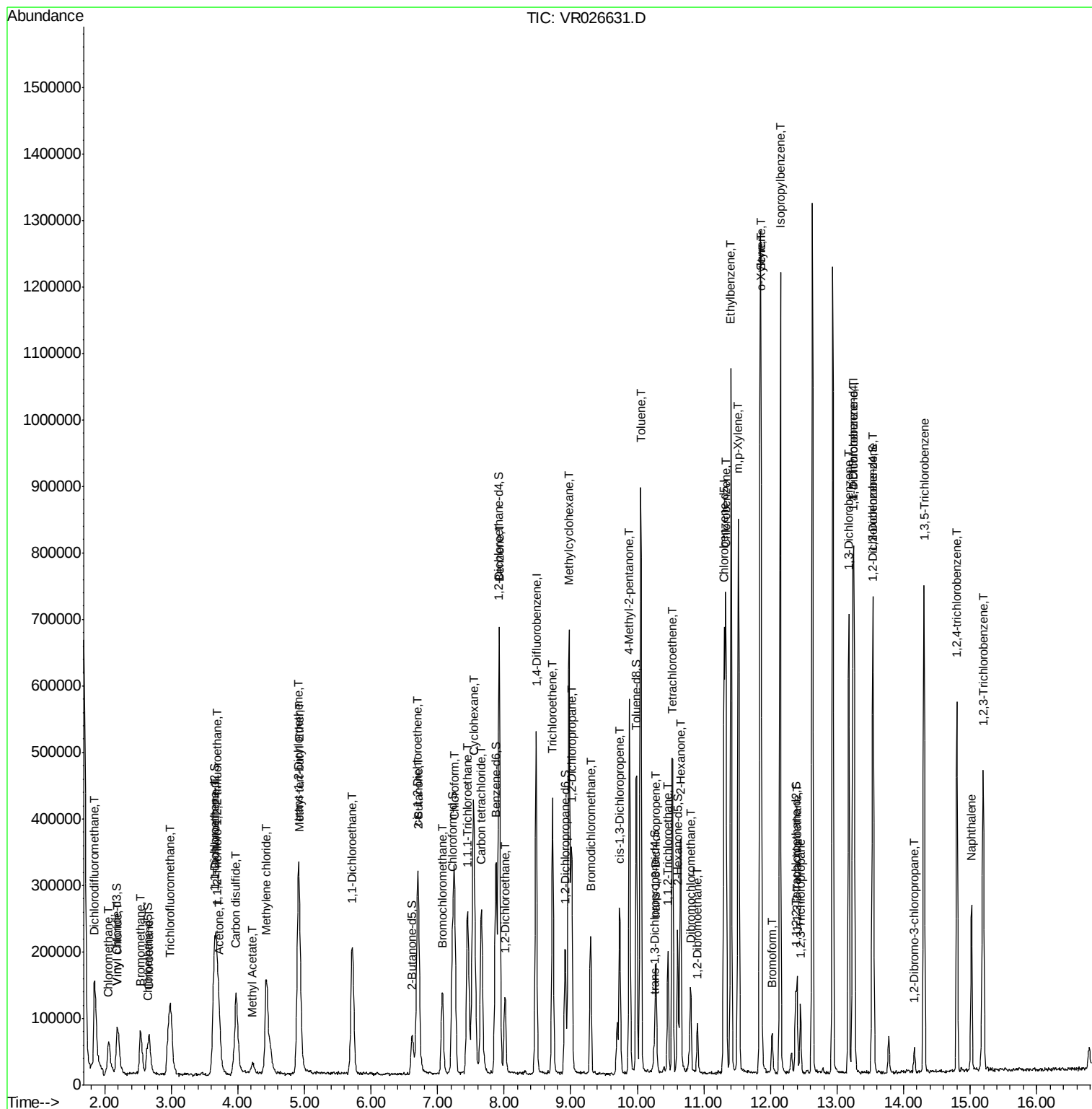
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.07  | 128  | 43507    | 4.432  | ug/L   | 98       |
| 25) Chloroform                 | 7.25  | 83   | 273485   | 4.132  | ug/L   | 92       |
| 27) 1,2-Dichloroethane         | 8.01  | 62   | 101329   | 4.353  | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane      | 7.45  | 97   | 216826   | 4.260  | ug/L   | 98       |
| 30) Cyclohexane                | 7.54  | 56   | 276394   | 5.094  | ug/L   | 99       |
| 31) Carbon tetrachloride       | 7.66  | 117  | 200145   | 4.644  | ug/L   | 99       |
| 33) Benzene                    | 7.93  | 78   | 629644   | 4.489  | ug/L   | 100      |
| 34) Trichloroethene            | 8.73  | 95   | 156658   | 4.483  | ug/L   | 95       |
| 35) Methylcyclohexane          | 8.97  | 83   | 278473   | 5.293  | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 9.01  | 63   | 123040   | 4.344  | ug/L   | 98       |
| 38) Bromodichloromethane       | 9.30  | 83   | 133258   | 4.418  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene    | 9.73  | 75   | 138851   | 4.624  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone       | 9.88  | 43   | 332265   | 46.830 | ug/L   | 97       |
| 42) Toluene                    | 10.05 | 91   | 595185   | 4.858  | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene  | 10.28 | 75   | 88246    | 4.572  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane      | 10.46 | 97   | 55572    | 4.604  | ug/L   | 94       |
| 47) Tetrachloroethene          | 10.53 | 164  | 97017    | 4.703  | ug/L   | 94       |
| 48) 2-Hexanone                 | 10.65 | 43   | 205300   | 45.524 | ug/L   | 97       |
| 49) Dibromochloromethane       | 10.80 | 129  | 58372    | 4.435  | ug/L   | 100      |
| 50) 1,2-Dibromoethane          | 10.90 | 107  | 46172    | 4.409  | ug/L # | 83       |
| 51) Chlorobenzene              | 11.33 | 112  | 324676   | 4.560  | ug/L   | 97       |
| 52) Ethylbenzene               | 11.41 | 91   | 672215   | 4.837  | ug/L   | 99       |
| 53) m,p-Xylene                 | 11.52 | 106  | 248379   | 4.998  | ug/L   | 97       |
| 54) o-Xylene                   | 11.84 | 106  | 236980   | 4.832  | ug/L   | 96       |
| 55) Styrene                    | 11.86 | 104  | 349206   | 4.966  | ug/L   | 97       |
| 56) Isopropylbenzene           | 12.15 | 105  | 708808   | 5.115  | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.40 | 83   | 61312    | 4.384  | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane     | 12.45 | 75   | 44535    | 4.342  | ug/L   | 98       |
| 61) Bromoform                  | 12.02 | 173  | 23130    | 4.002  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene        | 13.18 | 146  | 236437   | 4.496  | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene        | 13.26 | 146  | 232136   | 4.441  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 13.55 | 146  | 200535   | 4.500  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.16 | 75   | 9232     | 4.153  | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.31 | 180  | 200336   | 4.702  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 14.80 | 180  | 138116   | 4.595  | ug/L   | 99       |
| 69) Naphthalene                | 15.02 | 128  | 173661   | 4.345  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.20 | 180  | 122204   | 4.590  | ug/L   | 99       |

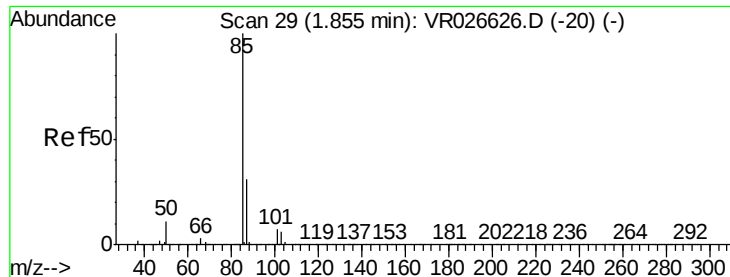
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.889 ug/L

RT: 1.85 min Scan# 28

Delta R.T. -0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

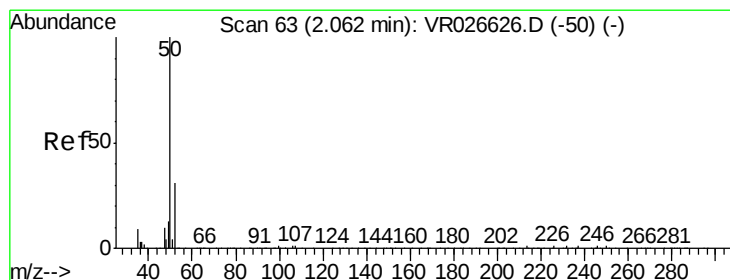
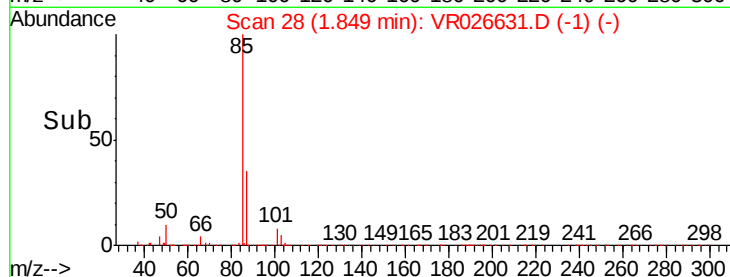
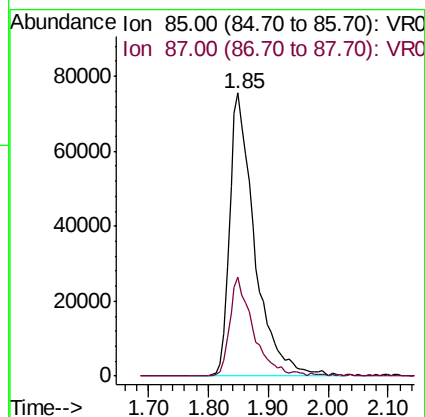
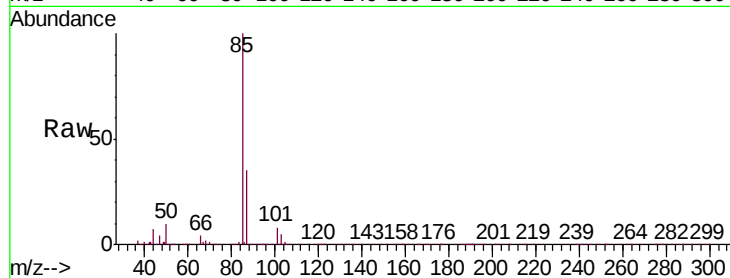
VSTD00569

Tgt Ion: 85 Resp: 220794

Ion Ratio Lower Upper

85 100

87 32.3 26.0 39.0



#3

Chloromethane

Concen: 4.021 ug/L

RT: 2.06 min Scan# 62

Delta R.T. -0.01 min

Lab File: VR026631.D

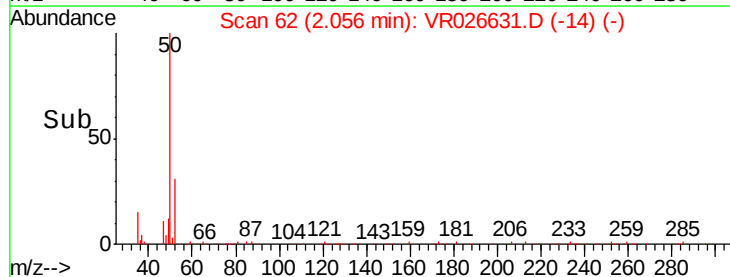
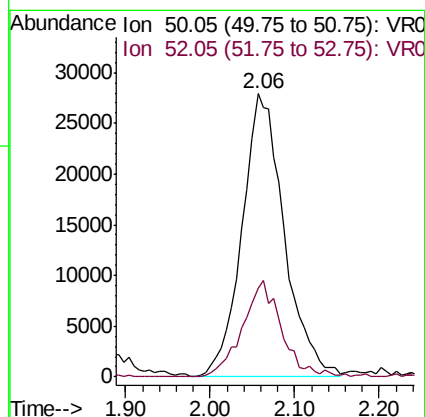
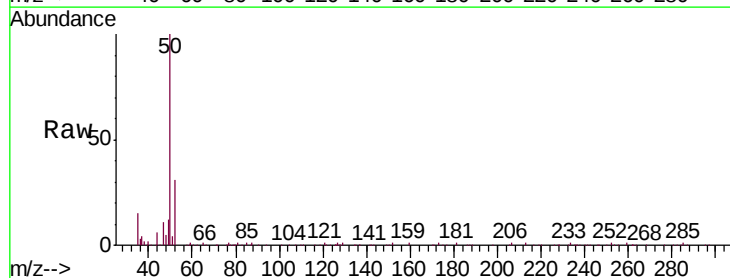
Acq: 13 Sep 2019 11:00

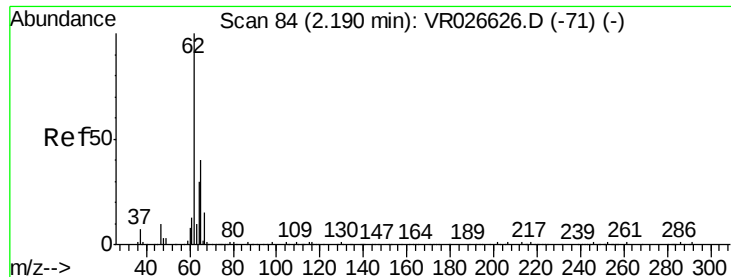
Tgt Ion: 50 Resp: 94805

Ion Ratio Lower Upper

50 100

52 31.4 21.7 40.3





#5

Vinyl chloride

Concen: 4.113 ug/L

RT: 2.20 min Scan# 86

Delta R.T. 0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

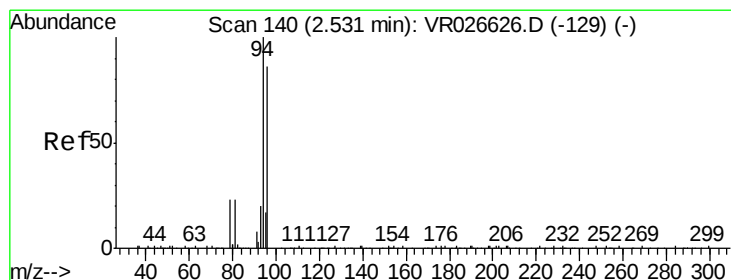
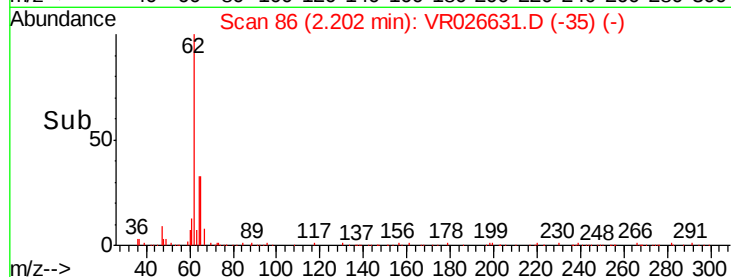
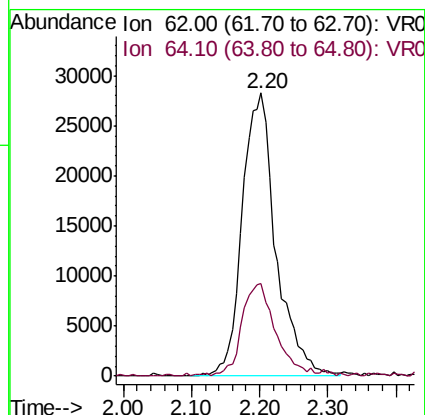
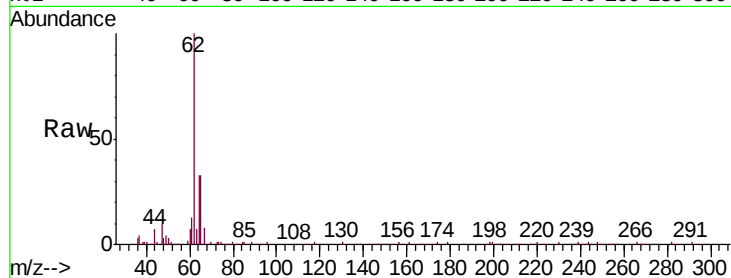
VSTD00569

Tgt Ion: 62 Resp: 97187

Ion Ratio Lower Upper

62 100

64 32.9 21.2 39.4



#6

Bromomethane

Concen: 4.387 ug/L

RT: 2.54 min Scan# 141

Delta R.T. 0.01 min

Lab File: VR026631.D

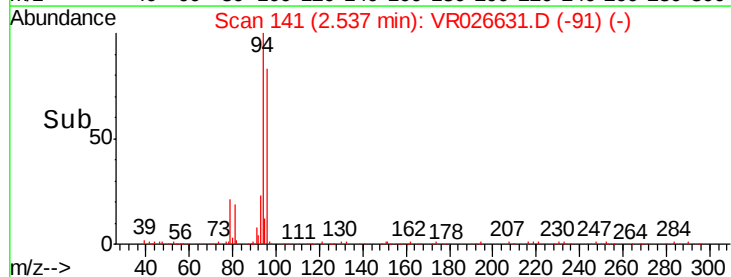
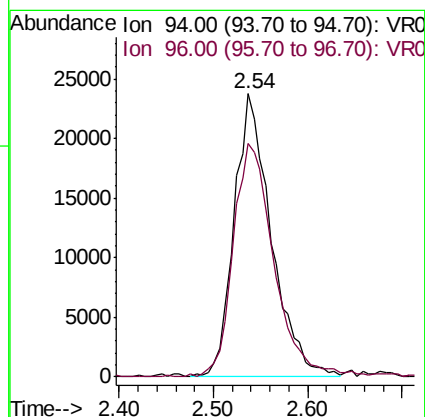
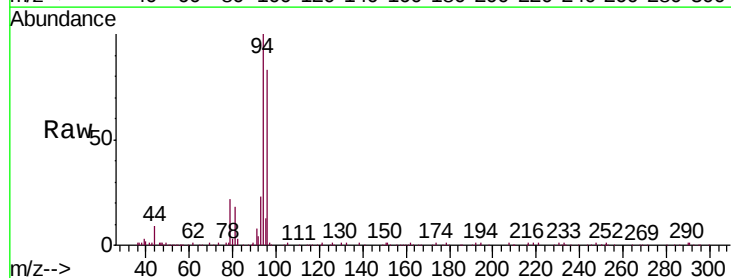
Acq: 13 Sep 2019 11:00

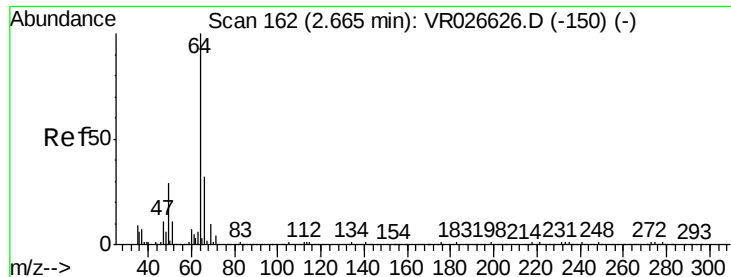
Tgt Ion: 94 Resp: 65122

Ion Ratio Lower Upper

94 100

96 82.6 61.0 113.4





#8

Chloroethane

Concen: 4.046 ug/L

RT: 2.67 min Scan# 163

Delta R.T. 0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

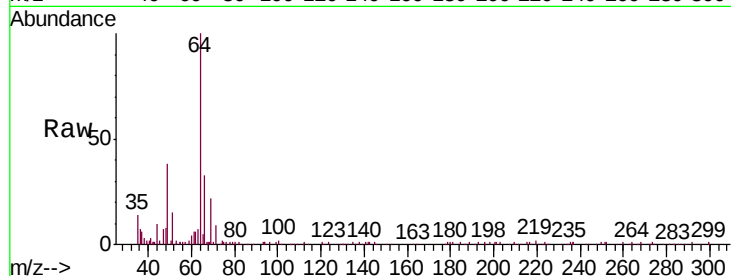
VSTD00569

Tgt Ion: 64 Resp: 55144

Ion Ratio Lower Upper

64 100

66 32.8 22.3 41.3



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0

2.67

20000

15000

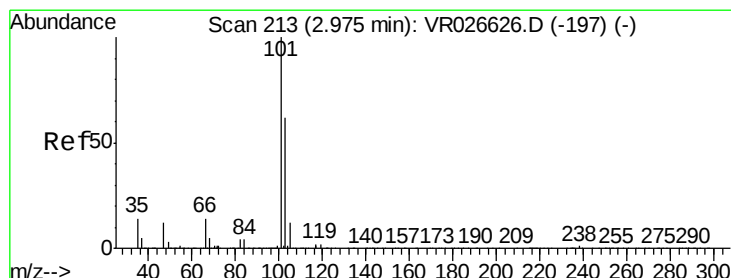
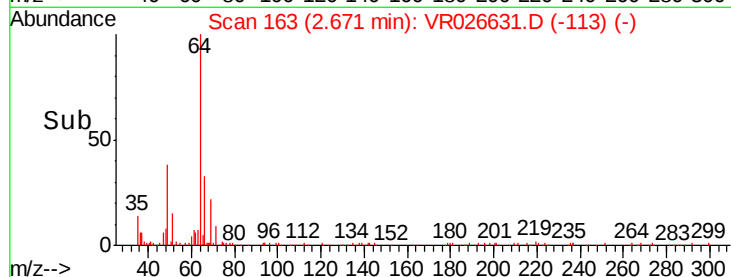
10000

5000

0

2.60 2.70 2.80

Time-->



#9

Trichlorofluoromethane

Concen: 4.864 ug/L

RT: 2.99 min Scan# 215

Delta R.T. 0.01 min

Lab File: VR026631.D

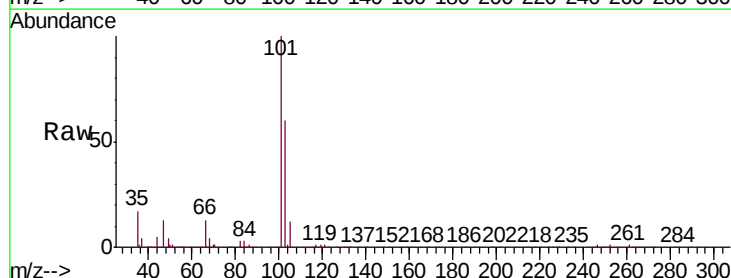
Acq: 13 Sep 2019 11:00

Tgt Ion: 101 Resp: 198802

Ion Ratio Lower Upper

101 100

103 64.6 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

2.99

50000

40000

30000

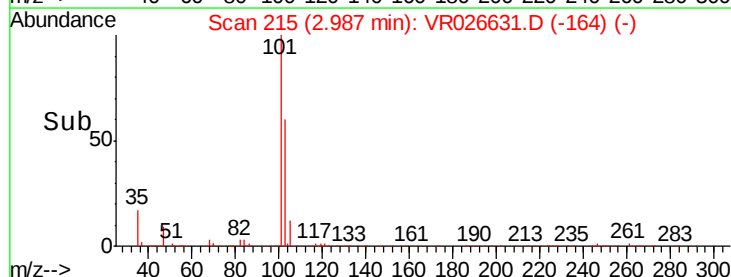
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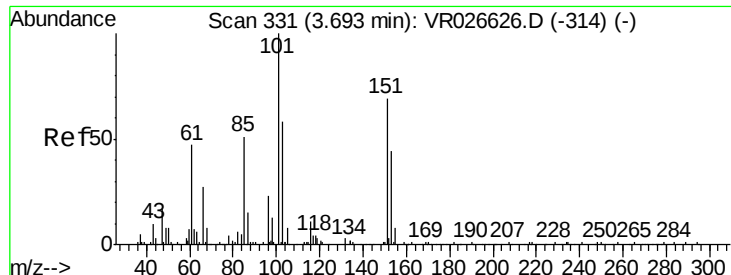
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0

2.80 2.90 3.00 3.10

Time-->





#10

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

Concen: 4.938 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.00 min

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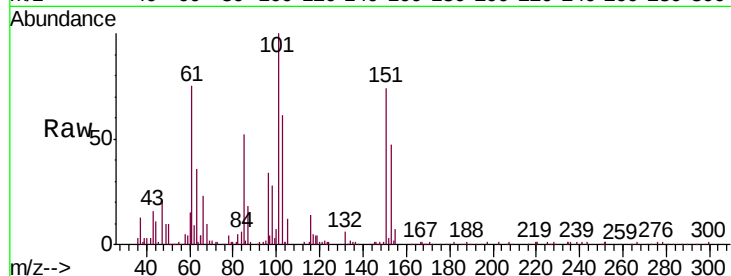
Tgt Ion: 101 Resp: 88467

Ion Ratio Lower Upper

101 100

85 49.6 39.7 59.5

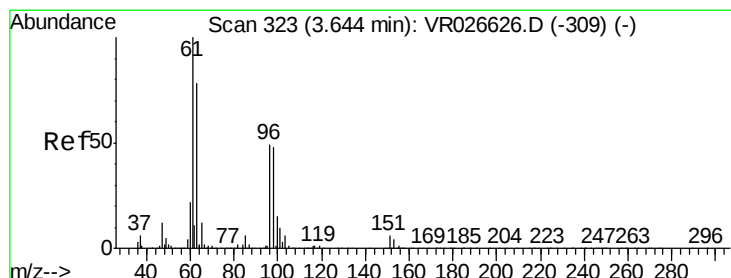
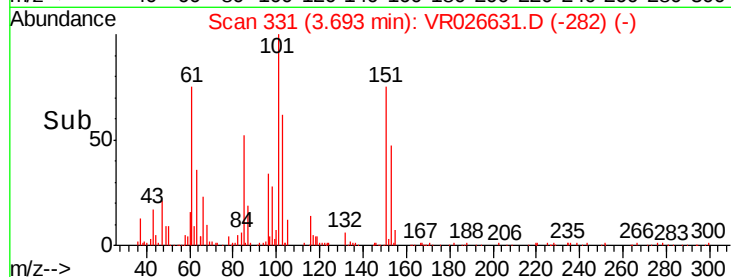
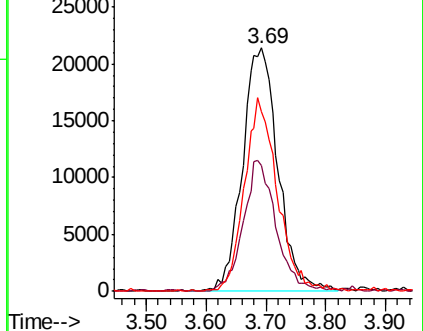
151 72.9 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.540 ug/L

RT: 3.66 min Scan# 326

Delta R.T. 0.02 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

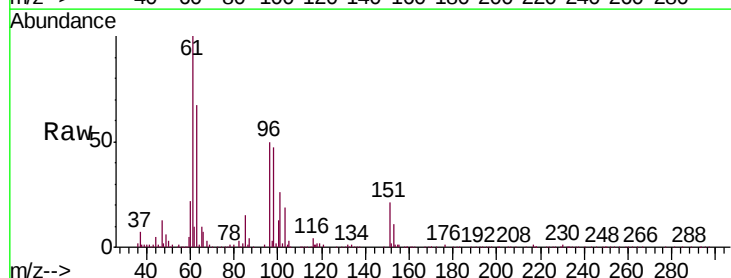
Tgt Ion: 96 Resp: 80022

Ion Ratio Lower Upper

96 100

61 201.2 143.3 266.1

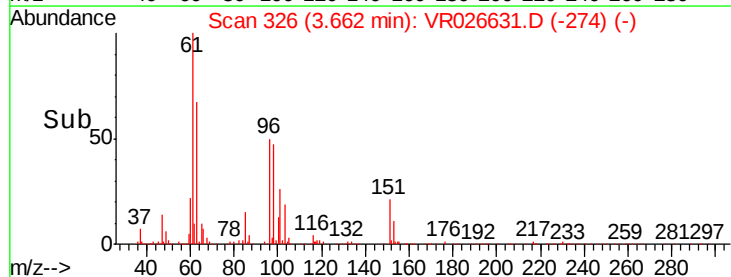
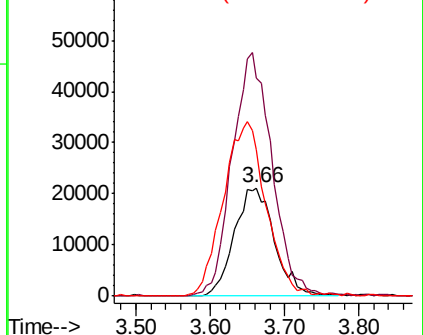
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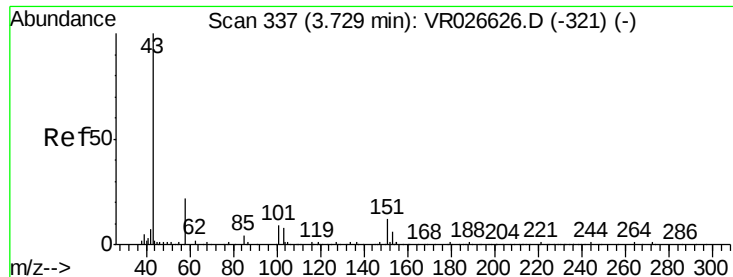


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 44.094 ug/L

RT: 3.72 min Scan# 336

Delta R.T. -0.01 min

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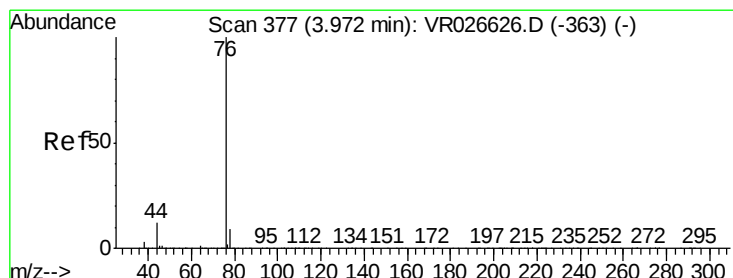
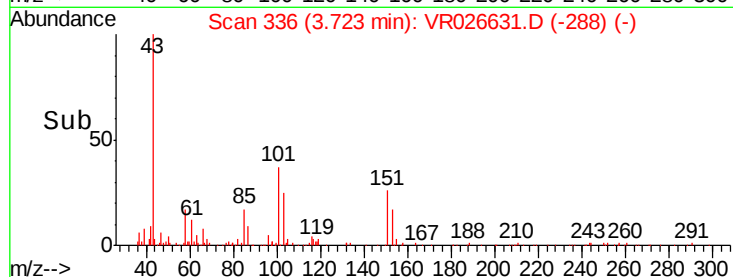
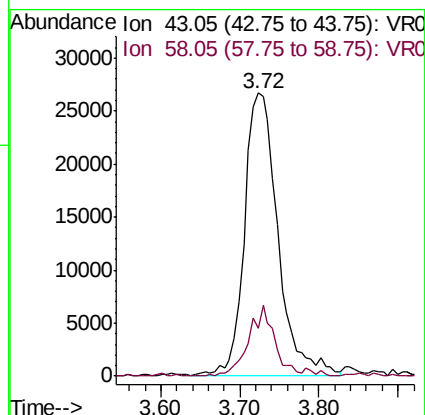
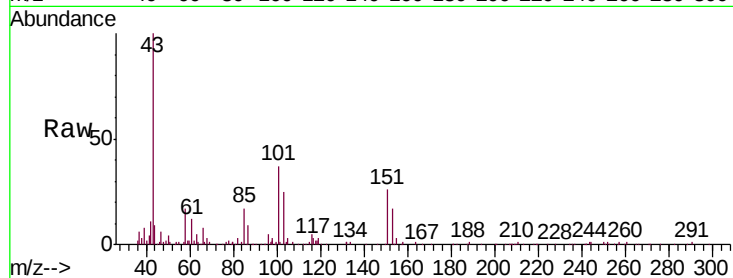
VSTD00569

Tgt Ion: 43 Resp: 78949

Ion Ratio Lower Upper

43 100

58 19.1 0.0 41.8



#14

Carbon disulfide

Concen: 4.370 ug/L

RT: 3.97 min Scan# 377

Delta R.T. 0.00 min

Lab File: VR026631.D

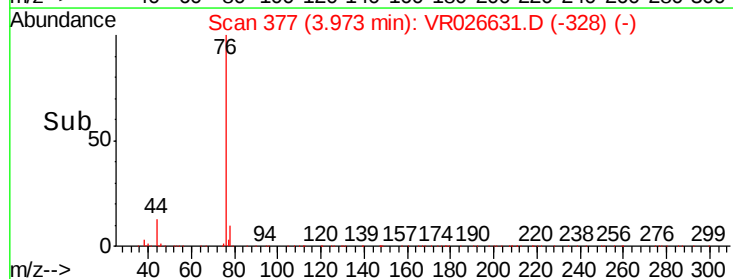
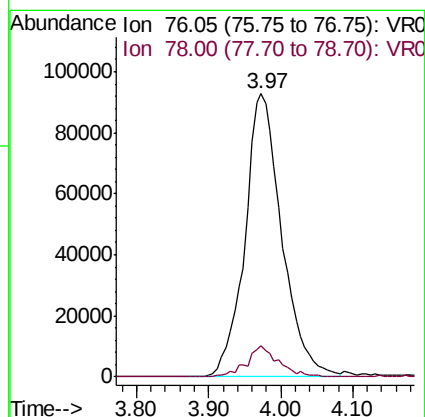
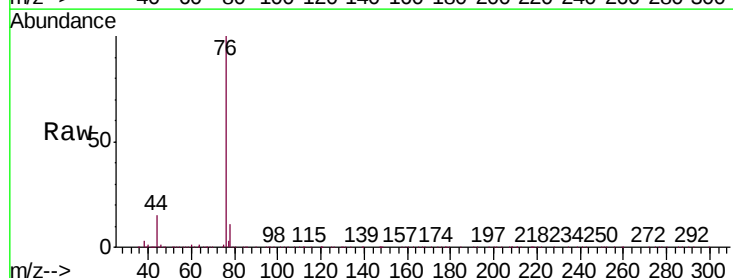
Acq: 13 Sep 2019 11:00

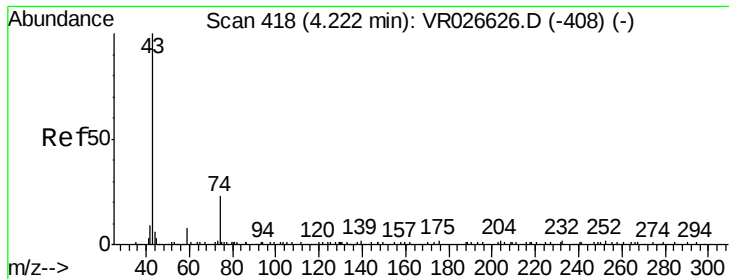
Tgt Ion: 76 Resp: 329720

Ion Ratio Lower Upper

76 100

78 11.1 7.4 11.0#

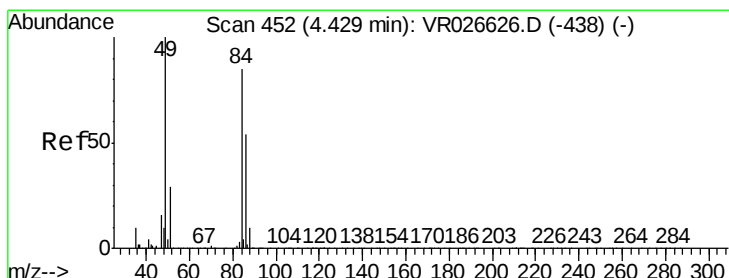
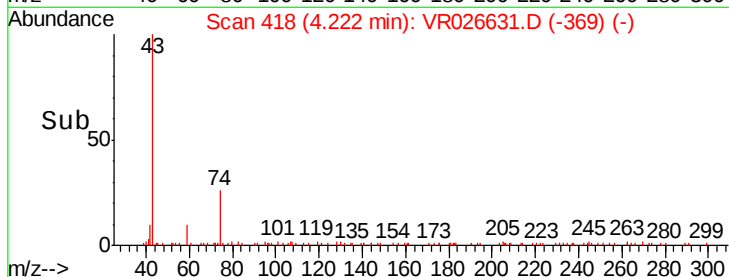
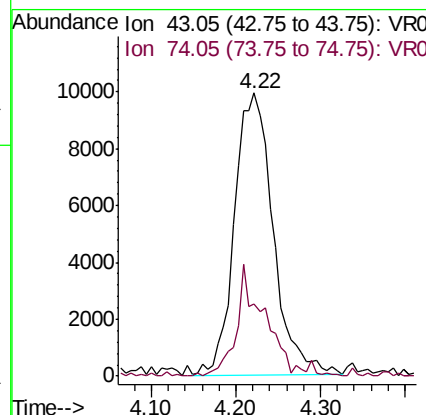
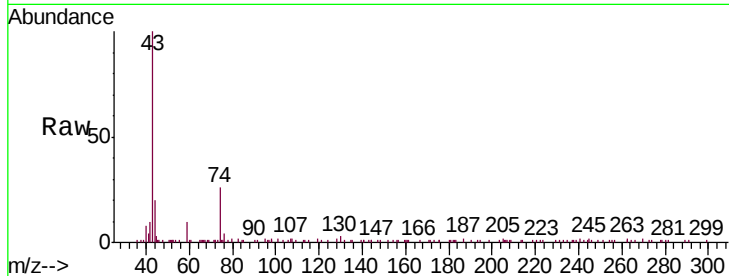




#15  
Methyl Acetate  
Concen: 4.084 ug/L  
RT: 4.22 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

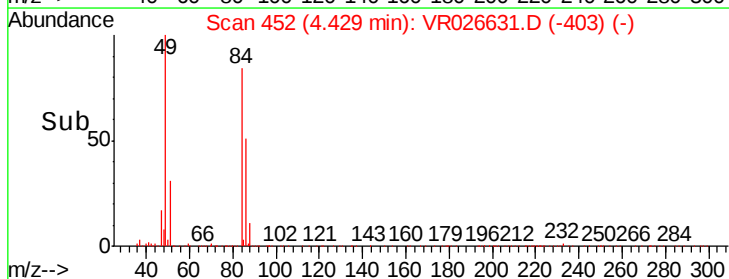
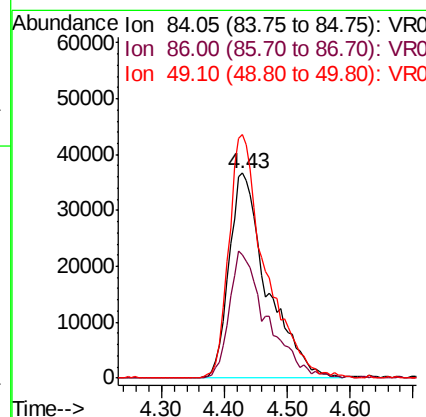
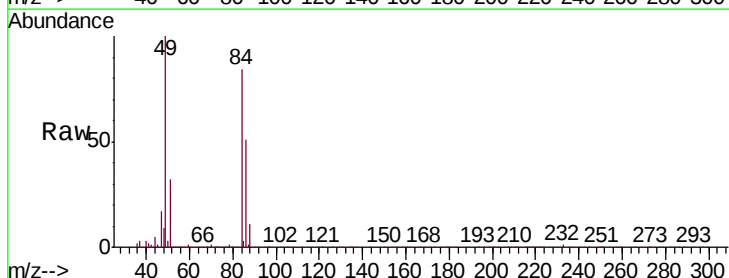
Instrument :  
MSVOA\_R  
ClientSampled :  
VSTD00569

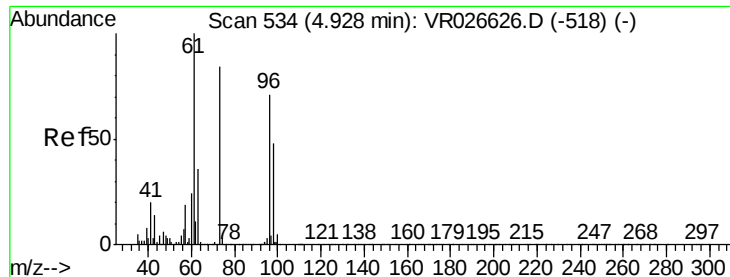
Tgt Ion: 43 Resp: 30713  
Ion Ratio Lower Upper  
43 100  
74 28.8 17.5 26.3#



#16  
Methylene chloride  
Concen: 4.178 ug/L  
RT: 4.43 min Scan# 452  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Tgt Ion: 84 Resp: 153204  
Ion Ratio Lower Upper  
84 100  
86 60.5 44.2 82.0  
49 119.0 82.3 152.9

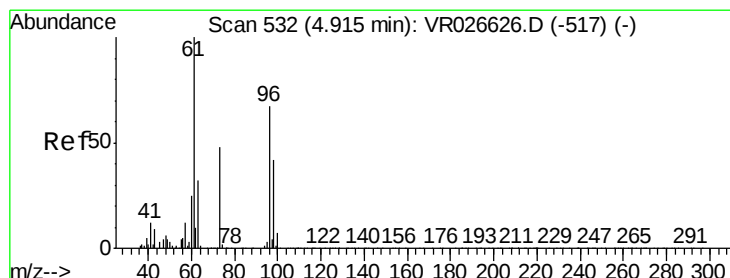
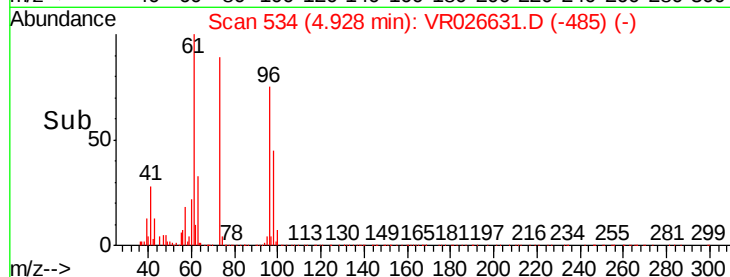
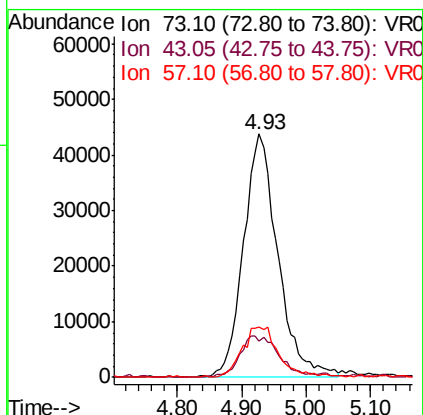
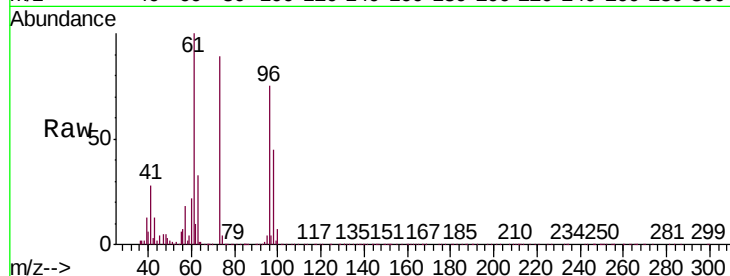




#17  
Methyl tert-butyl Ether  
Concen: 4.216 ug/L  
RT: 4.93 min Scan# 534  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

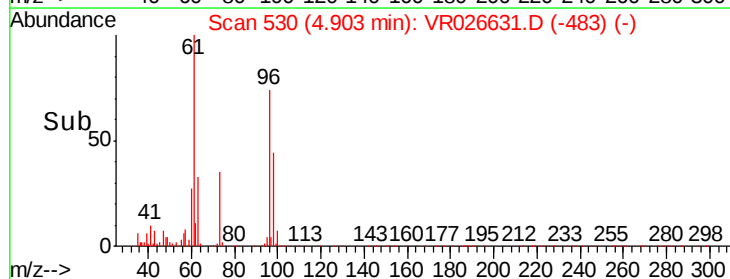
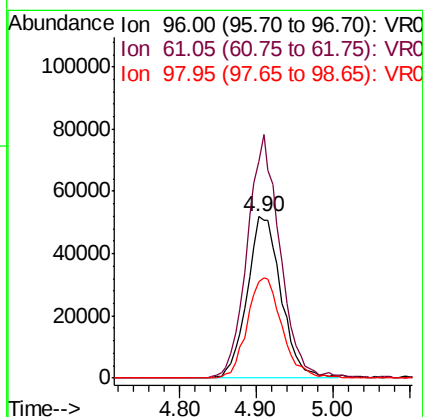
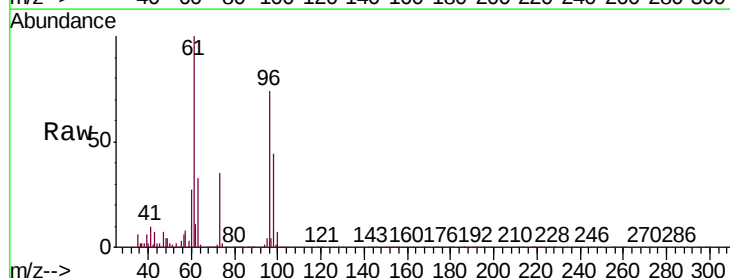
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

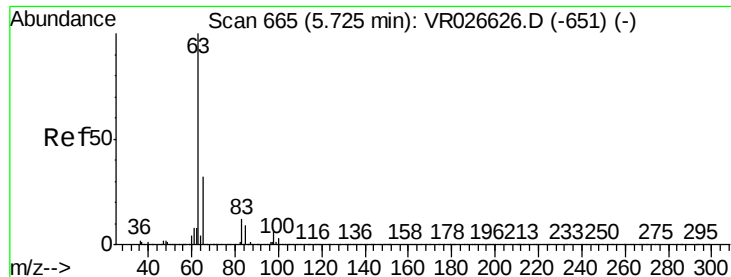
Tgt Ion: 73 Resp: 160608  
Ion Ratio Lower Upper  
73 100  
43 19.4 14.7 22.1  
57 22.1 18.9 28.3



#18  
trans-1,2-Dichloroethene  
Concen: 4.340 ug/L  
RT: 4.90 min Scan# 530  
Delta R.T. -0.01 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Tgt Ion: 96 Resp: 159833  
Ion Ratio Lower Upper  
96 100  
61 134.9 104.4 194.0  
98 60.0 44.2 82.0

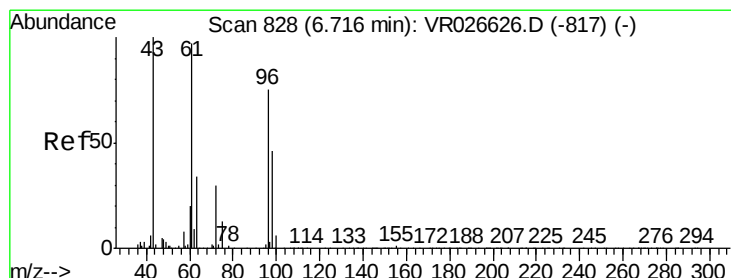
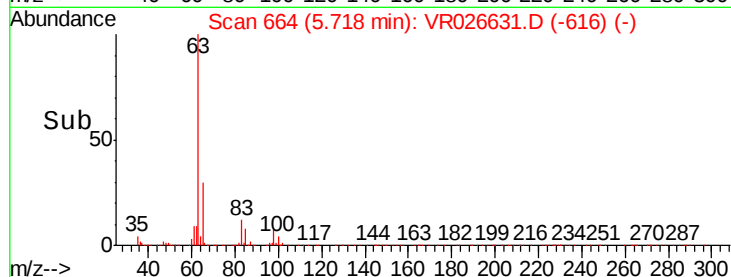
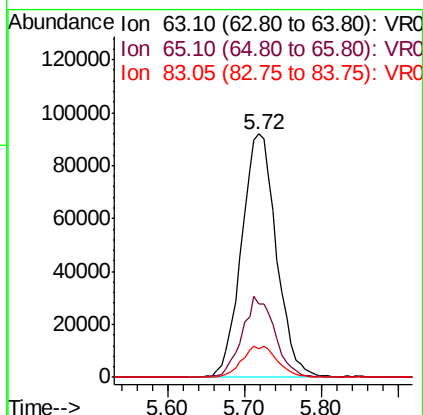
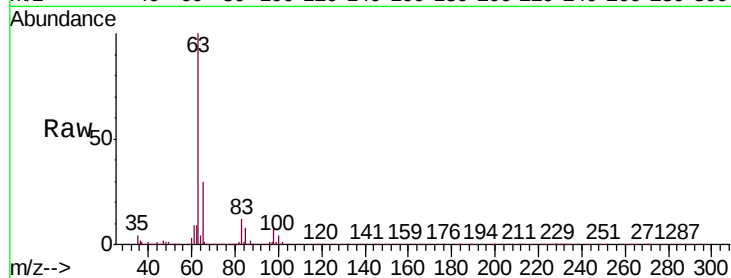




#19  
 1,1-Dichloroethane  
 Concen: 4.202 ug/L  
 RT: 5.72 min Scan# 664  
 Delta R.T. -0.01 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

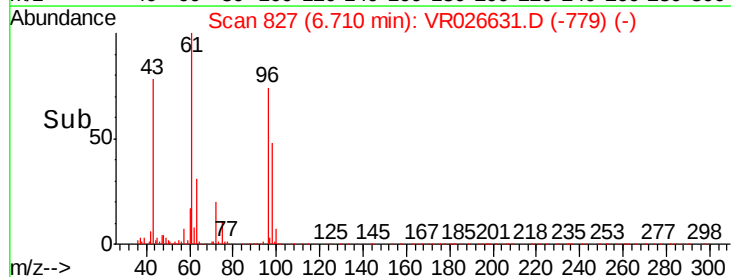
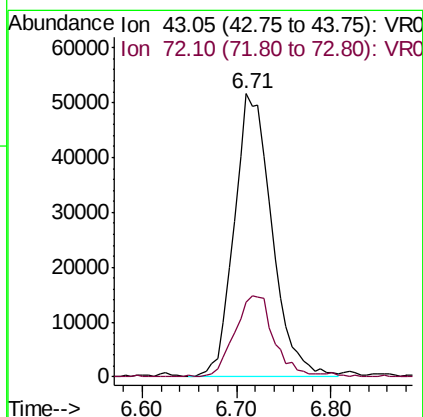
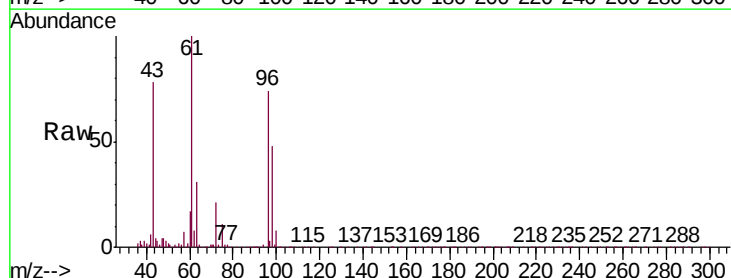
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

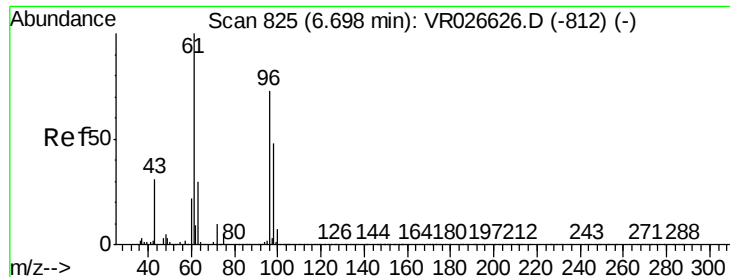
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 30.4  | 22.5  | 41.9  |
| 83      | 11.8  | 8.6   | 16.0  |



#21  
 2-Butanone  
 Concen: 43.449 ug/L  
 RT: 6.71 min Scan# 827  
 Delta R.T. -0.01 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 29.7  | 15.0  | 45.1  |



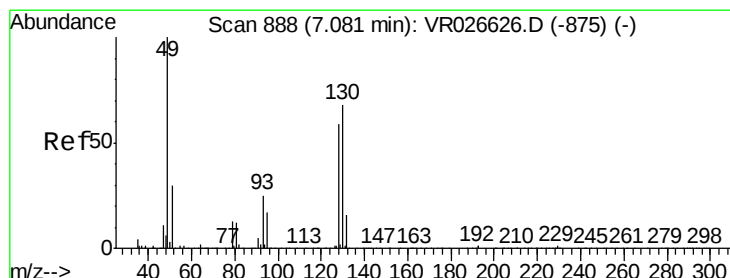
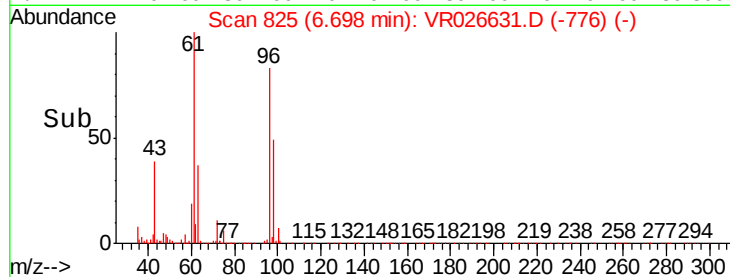
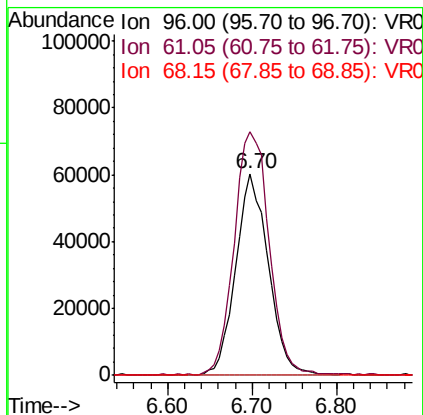
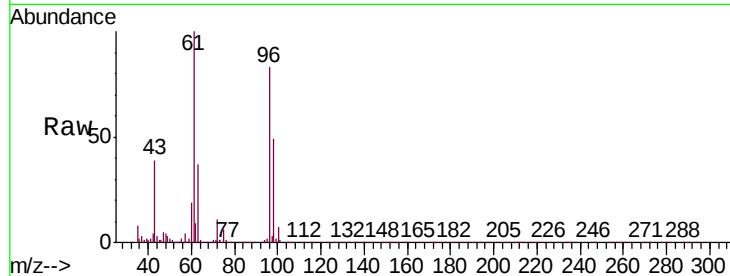


#22

cis-1,2-Dichloroethene  
Concen: 4.464 ug/L  
RT: 6.70 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

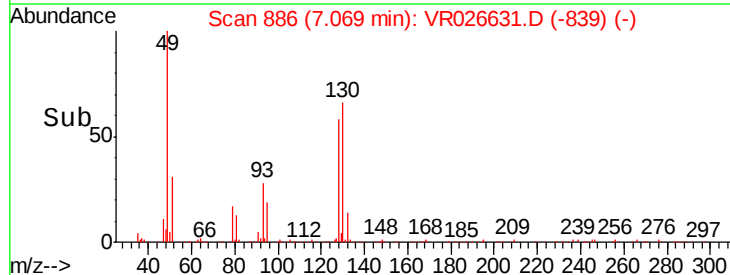
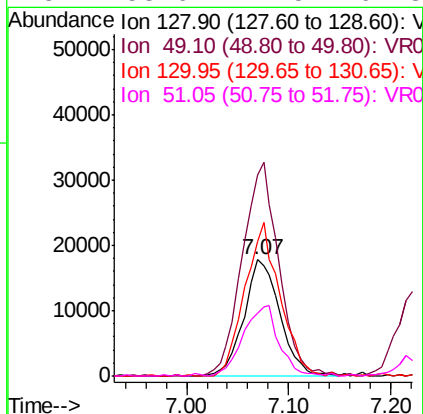
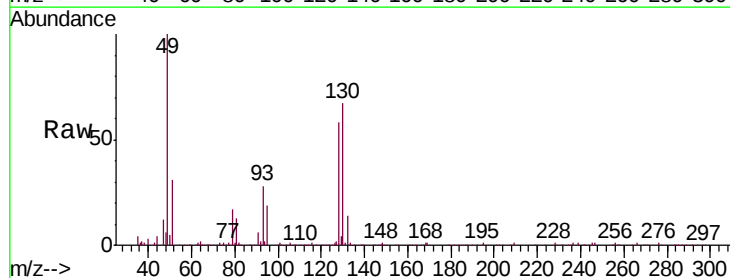
Tgt Ion: 96 Resp: 157569  
Ion Ratio Lower Upper  
96 100  
61 120.7 95.4 177.2  
68 0.0 0.0 0.0

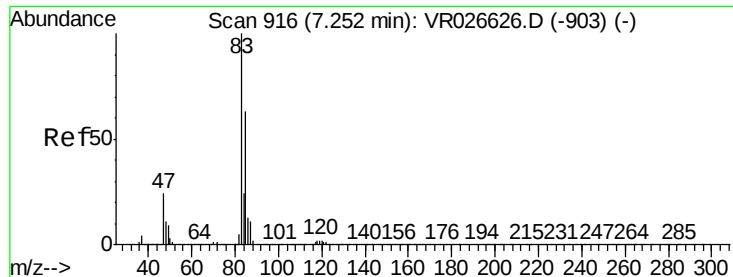


#23

Bromochloromethane  
Concen: 4.432 ug/L  
RT: 7.07 min Scan# 886  
Delta R.T. -0.01 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Tgt Ion: 128 Resp: 43507  
Ion Ratio Lower Upper  
128 100  
49 173.1 118.6 220.3  
130 115.6 80.6 149.6  
51 53.6 41.5 62.3





#25

Chloroform

Concen: 4.132 ug/L

RT: 7.25 min Scan# 916

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

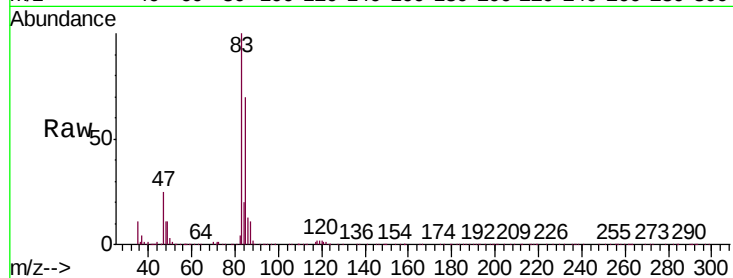
VSTD00569

Tgt Ion: 83 Resp: 273485

Ion Ratio Lower Upper

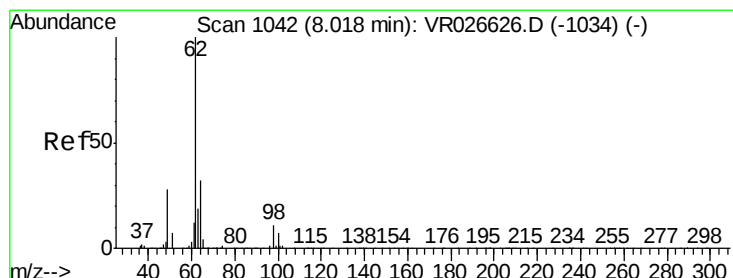
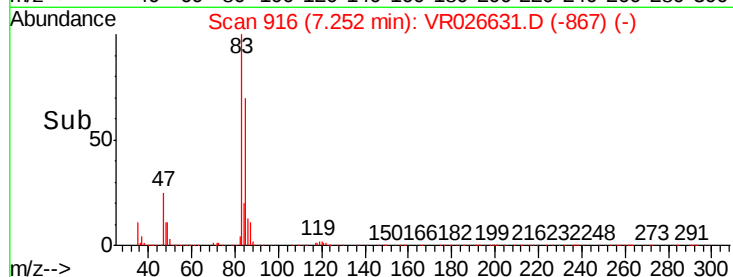
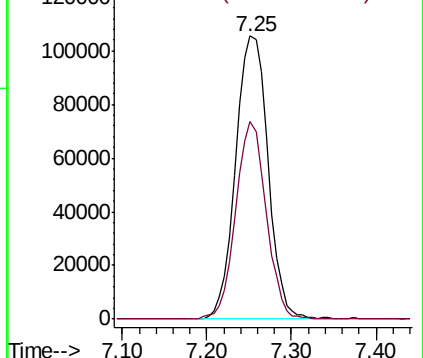
83 100

85 69.8 44.3 82.3



Abundance Ion 83.05 (82.75 to 83.75): VR0

Ion 85.00 (84.70 to 85.70): VR0



#27

1,2-Dichloroethane

Concen: 4.353 ug/L

RT: 8.01 min Scan# 1041

Delta R.T. -0.01 min

Lab File: VR026631.D

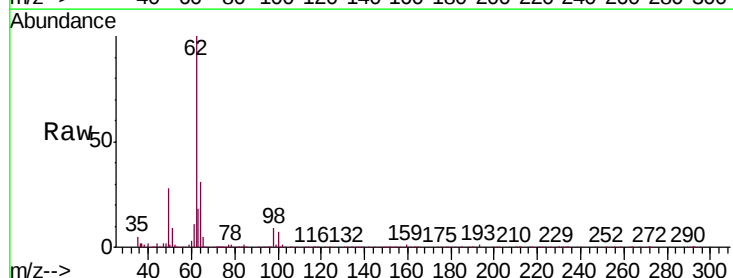
Acq: 13 Sep 2019 11:00

Tgt Ion: 62 Resp: 101329

Ion Ratio Lower Upper

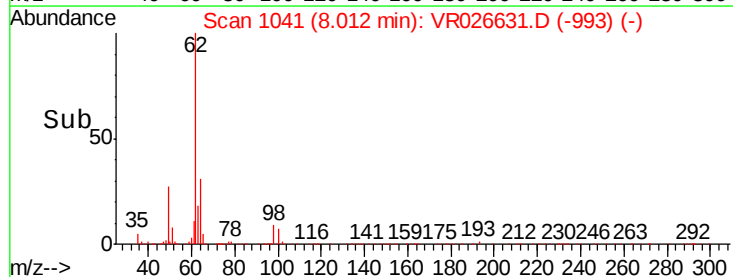
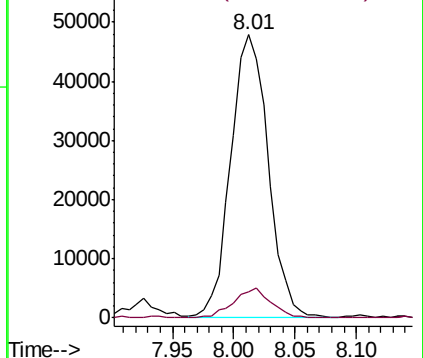
62 100

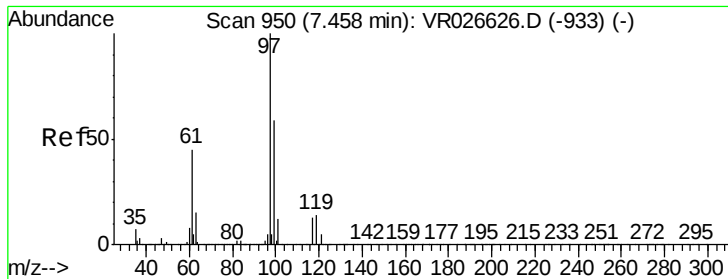
98 9.1 9.0 13.4



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0





#29

1,1,1-Trichloroethane

Concen: 4.260 ug/L

RT: 7.45 min Scan# 949

Delta R.T. -0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00569

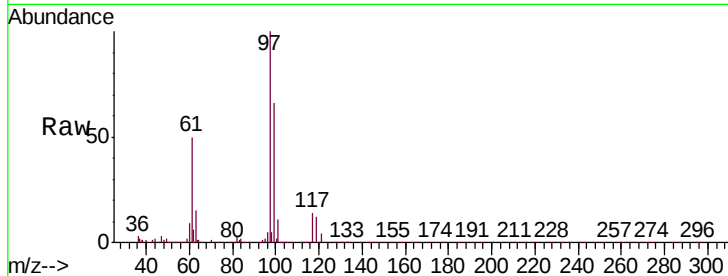
Tgt Ion: 97 Resp: 216826

Ion Ratio Lower Upper

97 100

99 64.4 50.1 75.1

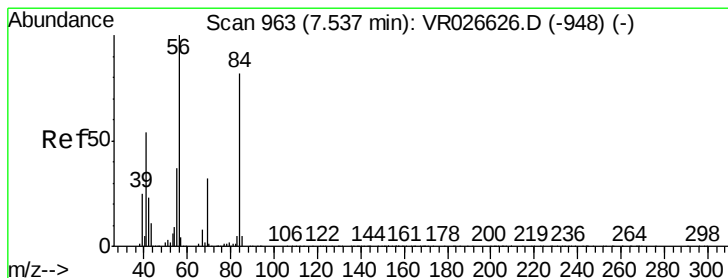
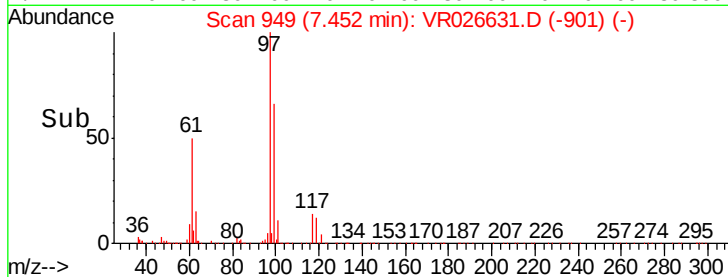
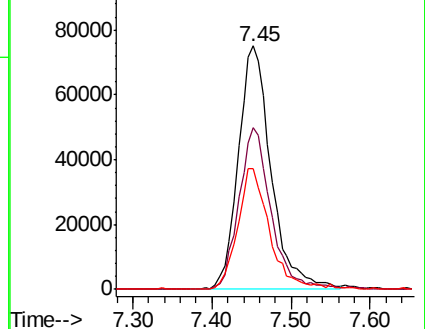
61 47.7 37.8 56.8



Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 5.094 ug/L

RT: 7.54 min Scan# 964

Delta R.T. 0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

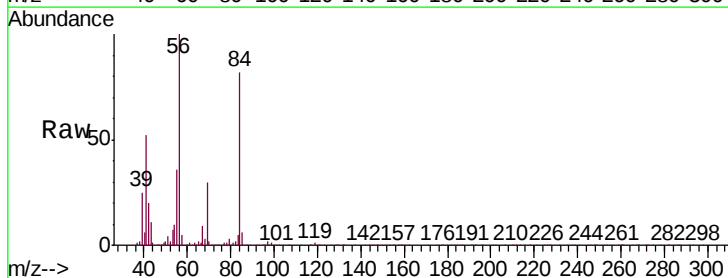
Tgt Ion: 56 Resp: 276394

Ion Ratio Lower Upper

56 100

69 33.1 25.9 38.9

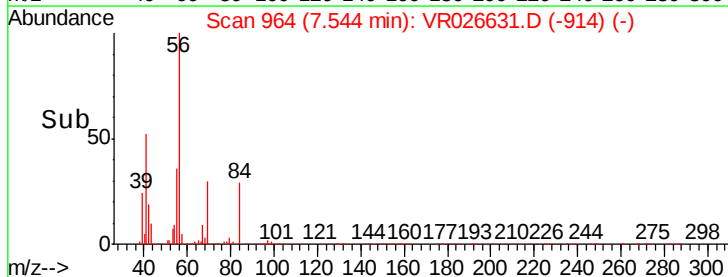
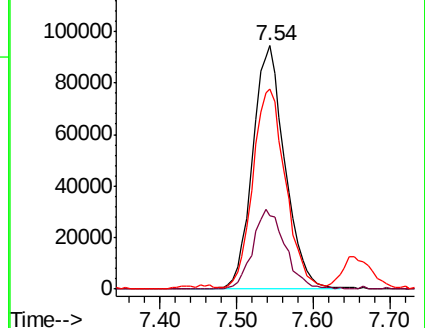
84 83.3 67.6 101.4

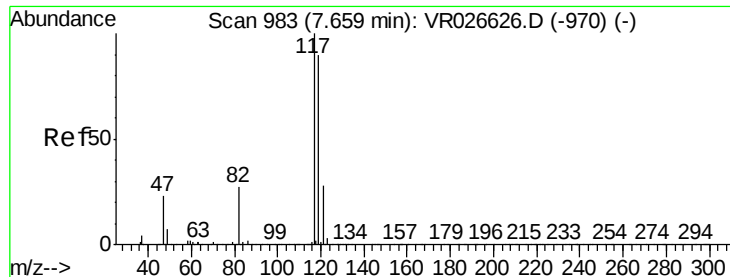


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.644 ug/L

RT: 7.66 min Scan# 983

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

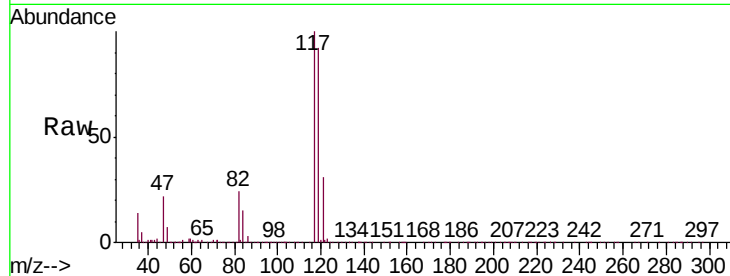
VSTD00569

Tgt Ion:117 Resp: 200145

Ion Ratio Lower Upper

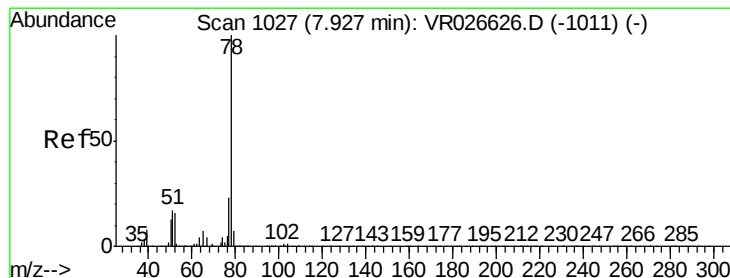
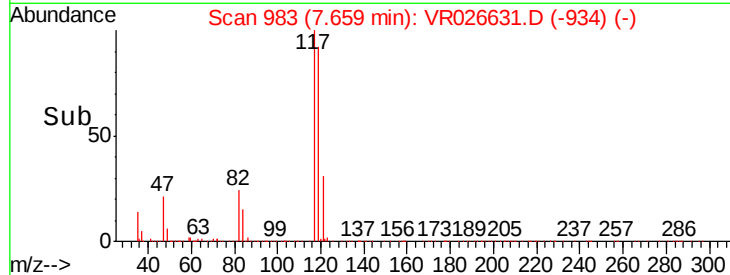
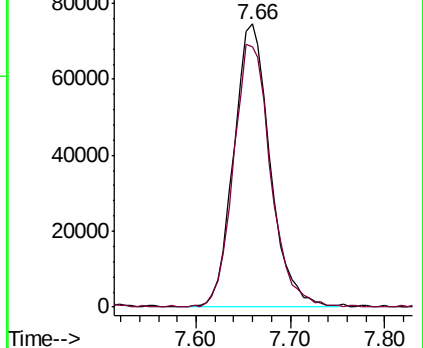
117 100

119 95.0 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.489 ug/L

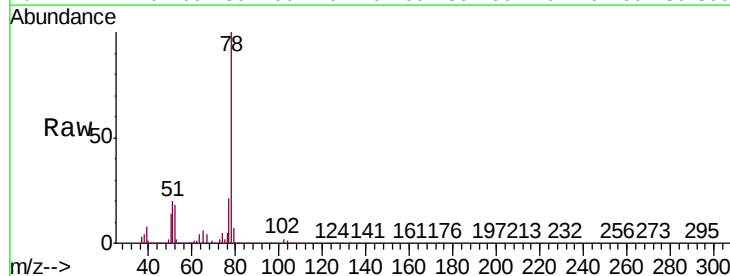
RT: 7.93 min Scan# 1027

Delta R.T. 0.00 min

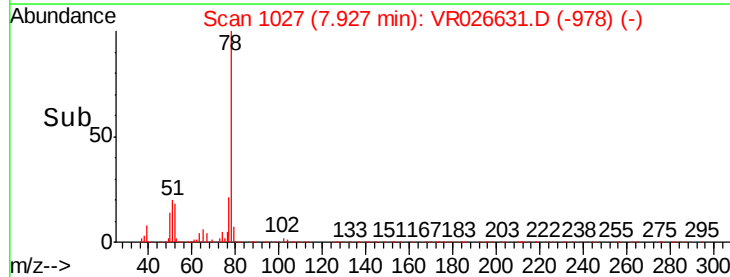
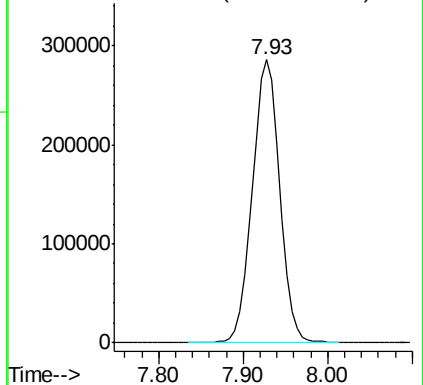
Lab File: VR026631.D

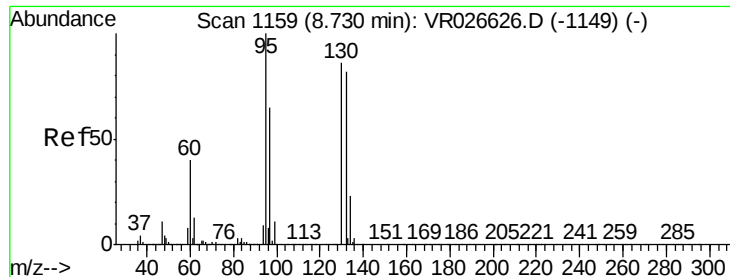
Acq: 13 Sep 2019 11:00

Tgt Ion: 78 Resp: 629644



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 4.483 ug/L

RT: 8.73 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00569

Tgt Ion: 95 Resp: 156658

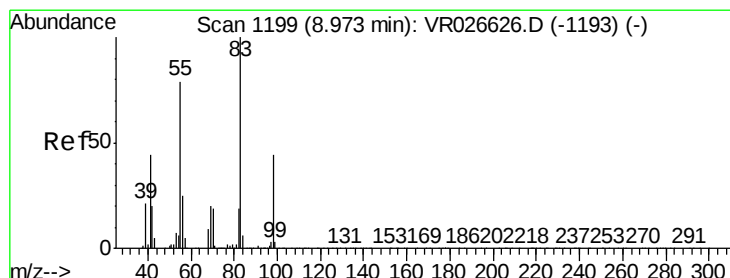
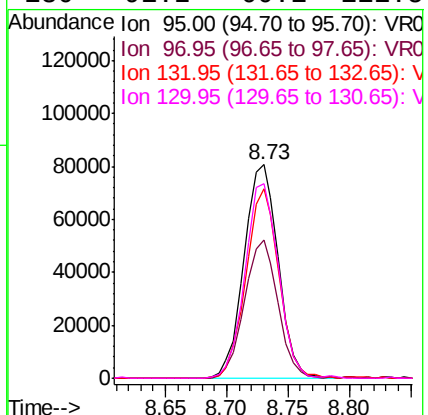
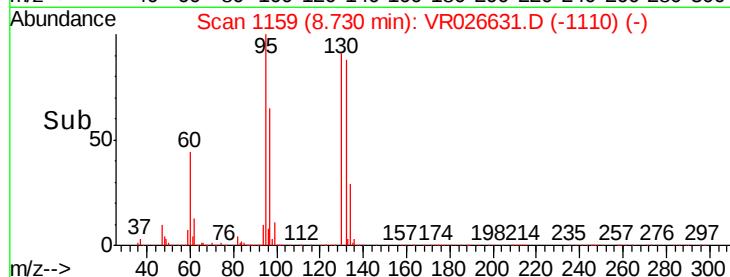
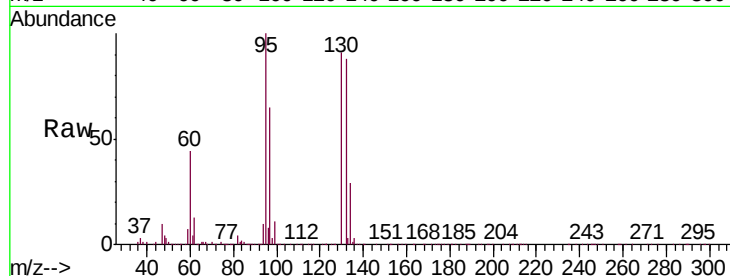
Ion Ratio Lower Upper

95 100

97 64.8 45.6 84.6

132 88.5 57.3 106.5

130 91.2 60.1 111.5



#35

Methylcyclohexane

Concen: 5.293 ug/L

RT: 8.97 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

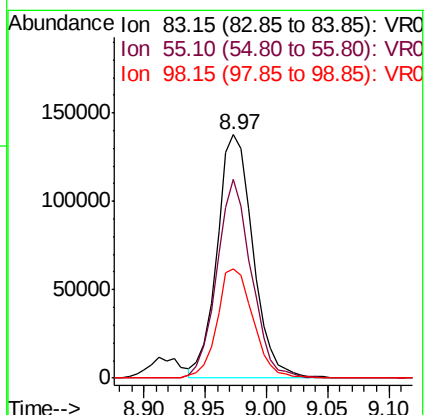
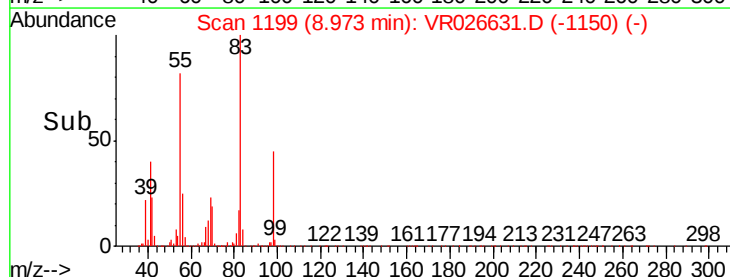
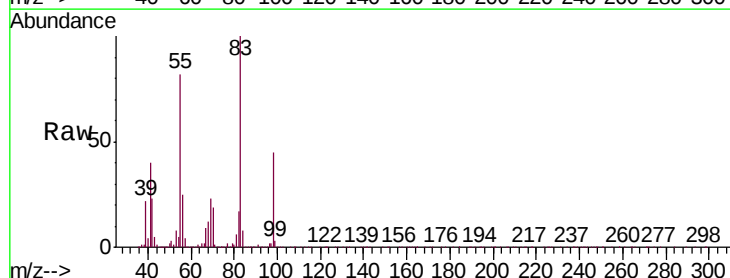
Tgt Ion: 83 Resp: 278473

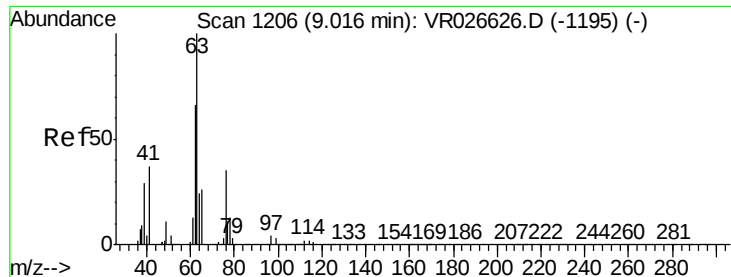
Ion Ratio Lower Upper

83 100

55 79.2 63.5 95.3

98 45.6 35.4 53.0





#37

1,2-Dichloropropane

Concen: 4.344 ug/L

RT: 9.01 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

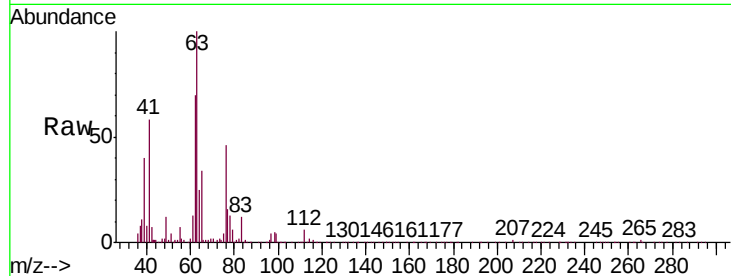
VSTD00569

Tgt Ion: 63 Resp: 123040

Ion Ratio Lower Upper

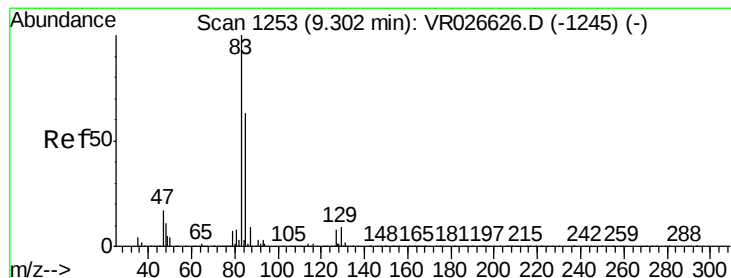
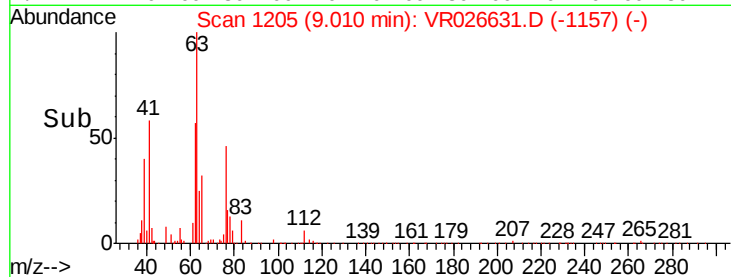
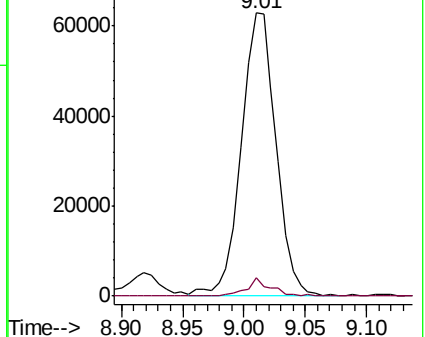
63 100

112 4.5 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 4.418 ug/L

RT: 9.30 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

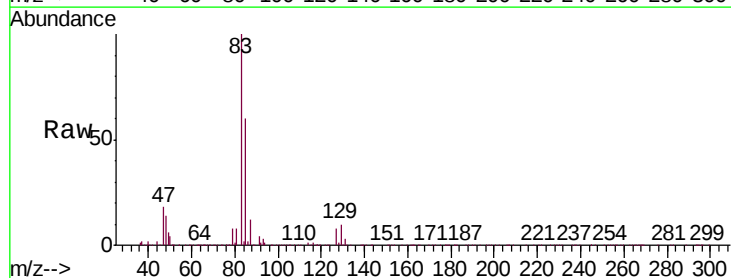
Tgt Ion: 83 Resp: 133258

Ion Ratio Lower Upper

83 100

85 60.0 44.0 81.8

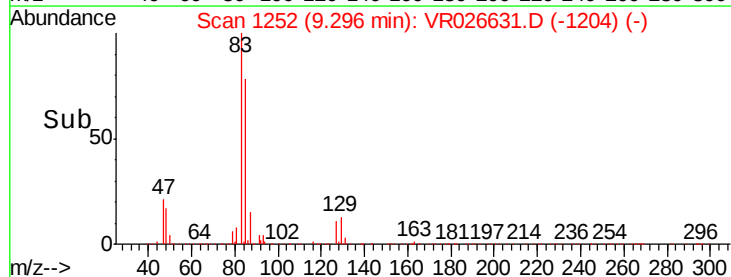
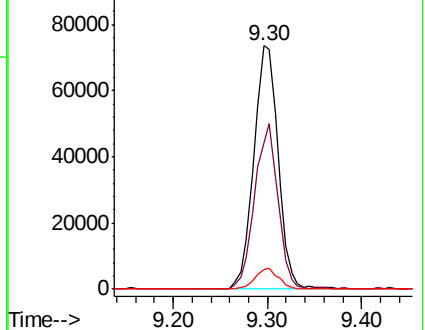
127 8.2 6.4 9.6

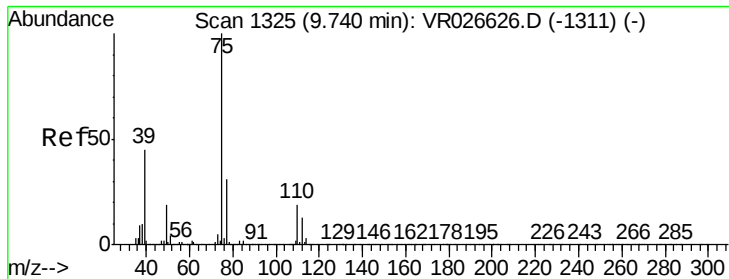


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 126.90 (126.60 to 127.60): V

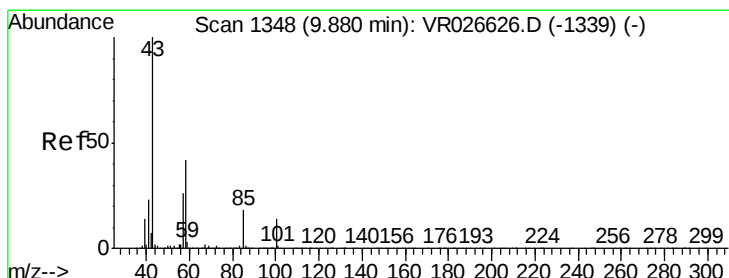
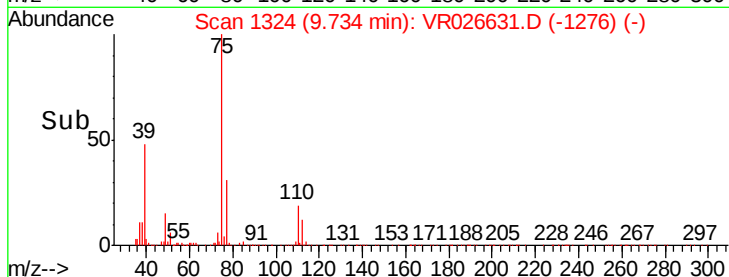
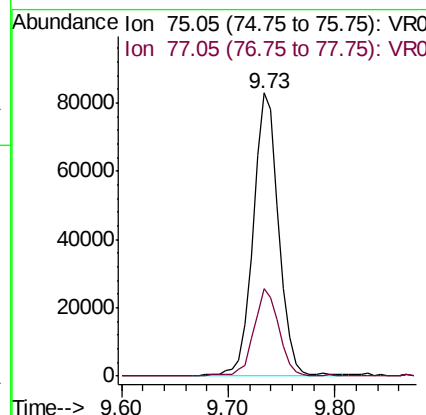
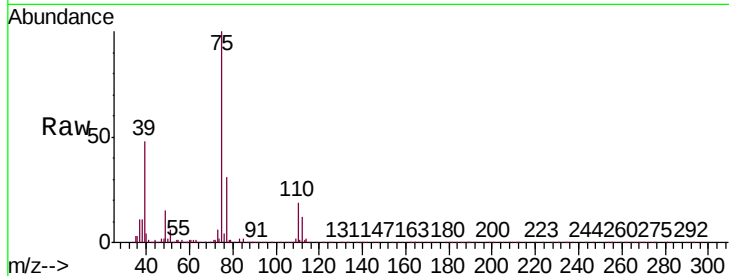




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.624 ug/L  
 RT: 9.73 min Scan# 1324  
 Delta R.T. -0.01 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

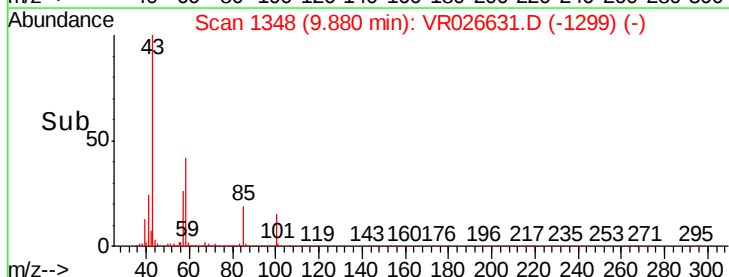
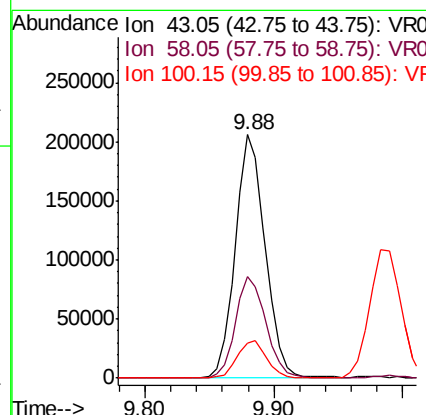
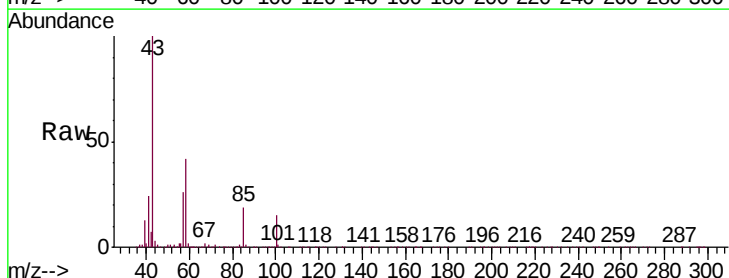
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

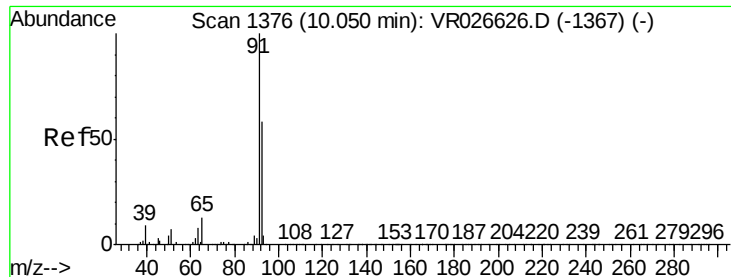
Tgt Ion: 75 Resp: 138851  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 21.8 40.6



#40  
 4-Methyl-2-pentanone  
 Concen: 46.830 ug/L  
 RT: 9.88 min Scan# 1348  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

Tgt Ion: 43 Resp: 332265  
 Ion Ratio Lower Upper  
 43 100  
 58 42.5 32.6 48.8  
 100 15.3 11.7 17.5





#42

Toluene

Concen: 4.858 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

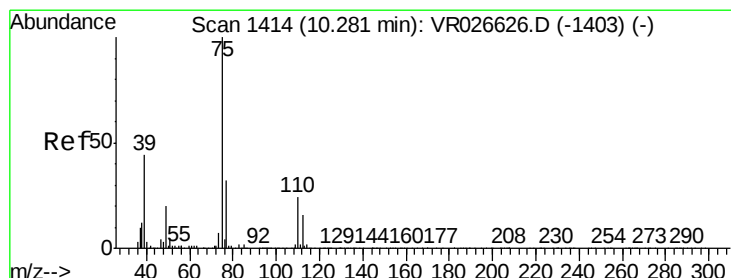
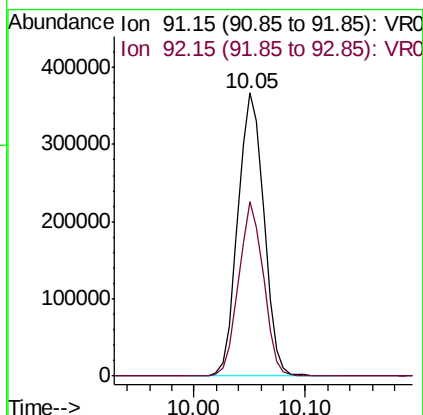
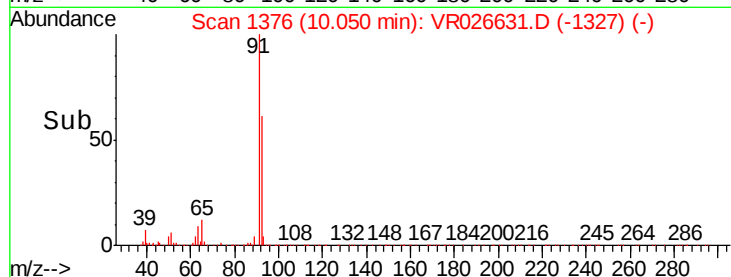
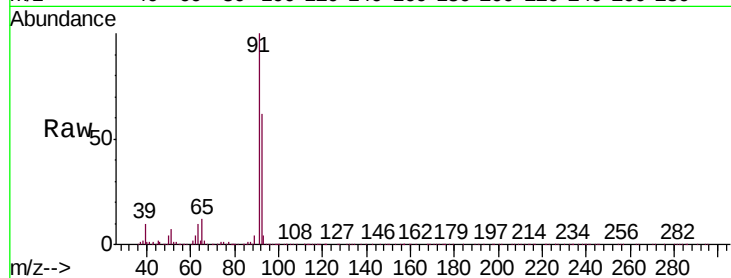
VSTD00569

Tgt Ion: 91 Resp: 595185

Ion Ratio Lower Upper

91 100

92 61.5 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 4.572 ug/L

RT: 10.28 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VR026631.D

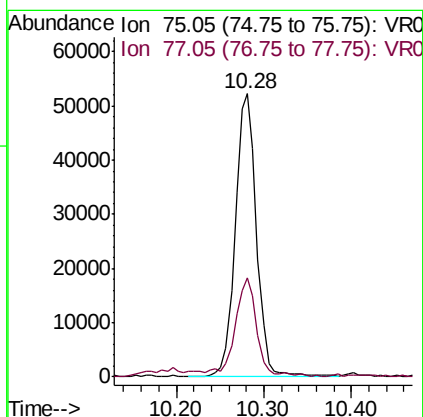
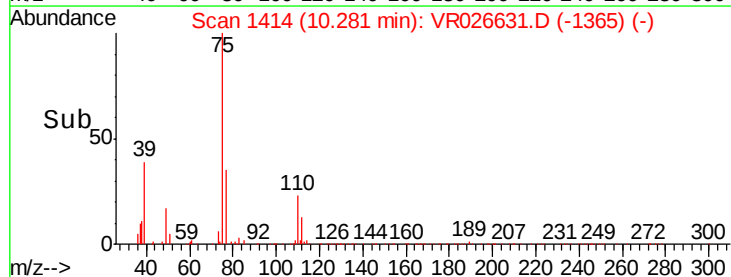
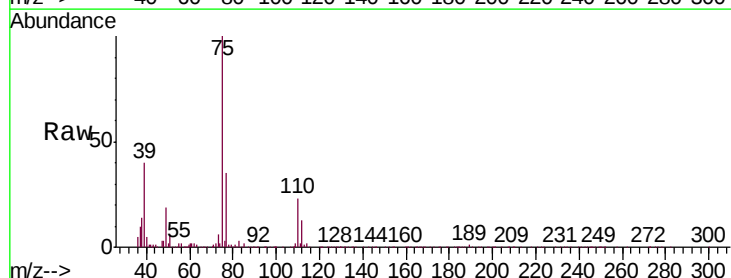
Acq: 13 Sep 2019 11:00

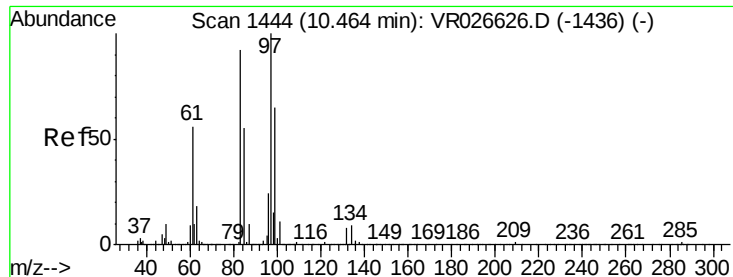
Tgt Ion: 75 Resp: 88246

Ion Ratio Lower Upper

75 100

77 35.2 23.1 42.9

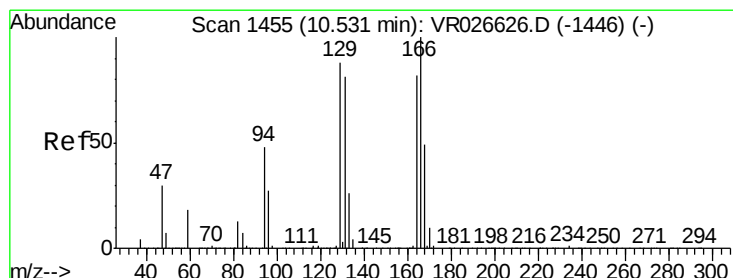
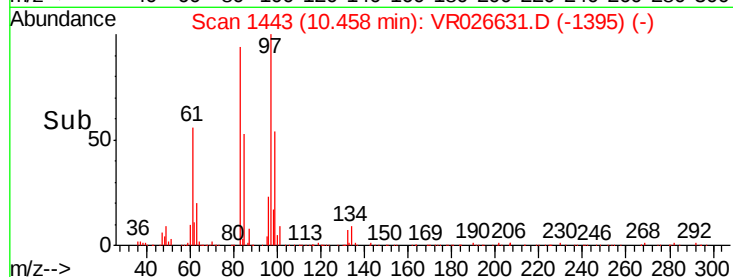
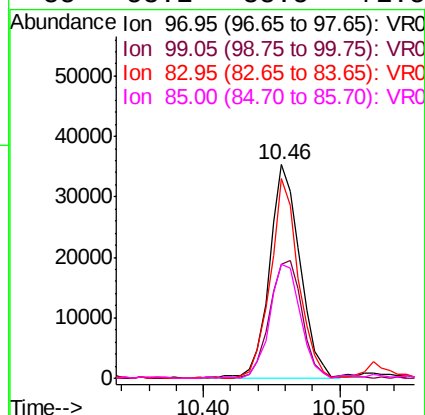
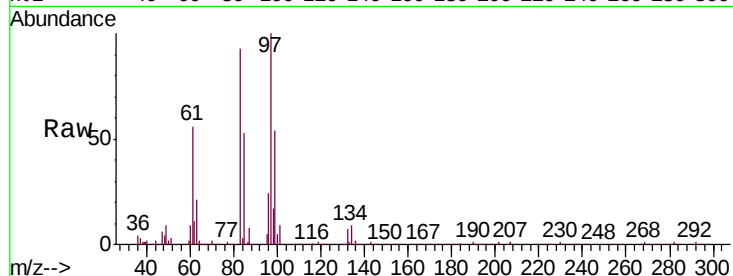




#45  
 1,1,2-Trichloroethane  
 Concen: 4.604 ug/L  
 RT: 10.46 min Scan# 1443  
 Delta R.T. -0.01 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

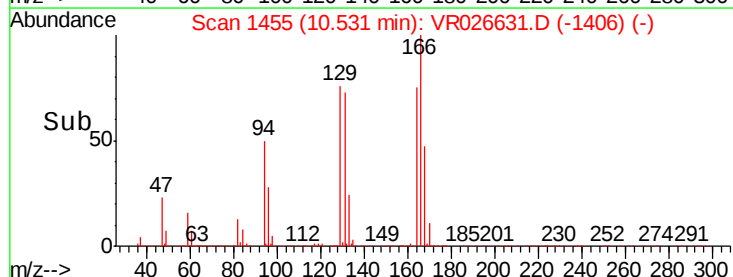
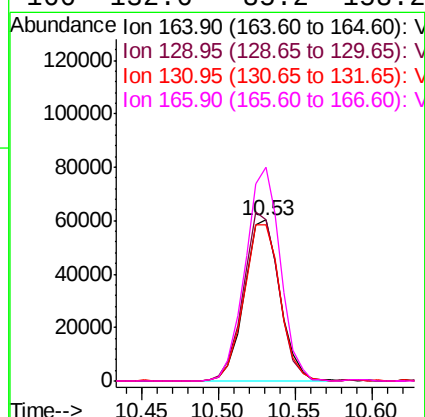
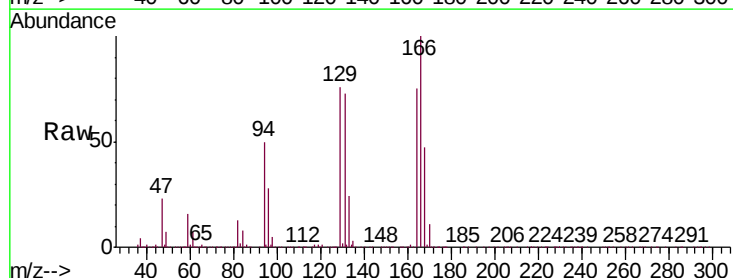
Instrument :  
 MSVOA\_R  
 ClientSampleID :  
 VSTD00569

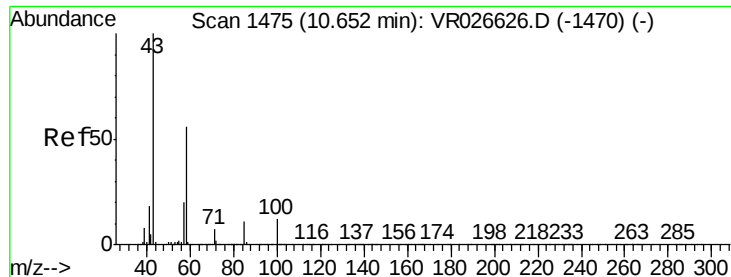
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 55572 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 53.5  | 45.6  | 84.6  |
| 83       | 93.2  | 64.5  | 119.9 |
| 85       | 53.1  | 38.5  | 71.5  |



#47  
 Tetrachloroethene  
 Concen: 4.703 ug/L  
 RT: 10.53 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 97017 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 100.2 | 74.8  | 139.0 |
| 131      | 97.0  | 69.1  | 128.3 |
| 166      | 132.6 | 85.2  | 158.2 |

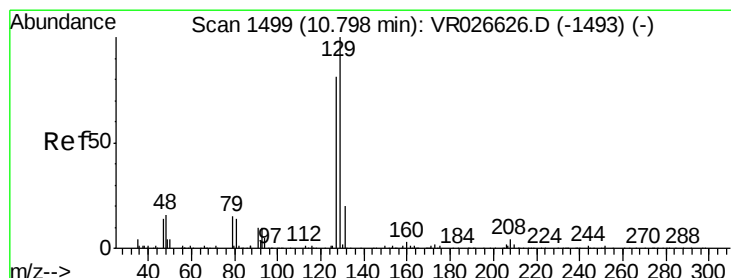
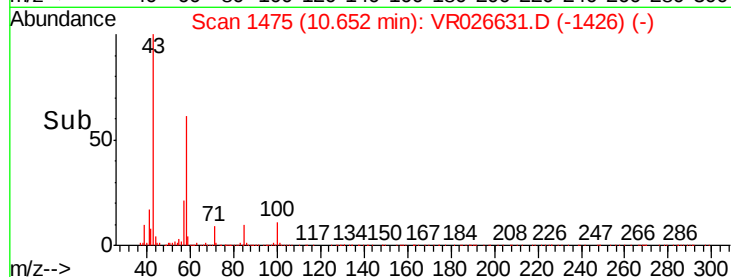
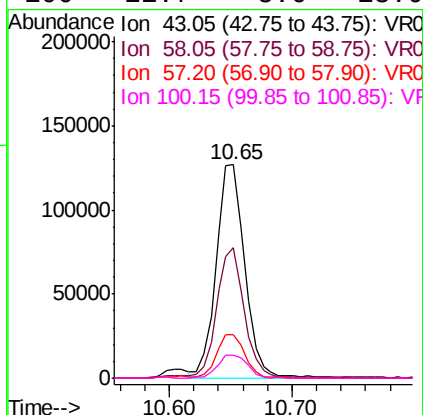
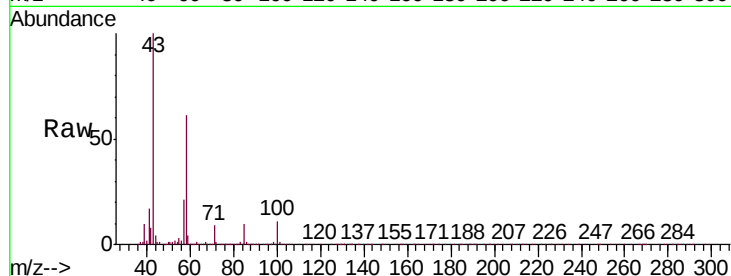




#48  
2-Hexanone  
Concen: 45.524 ug/L  
RT: 10.65 min Scan# 1475  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

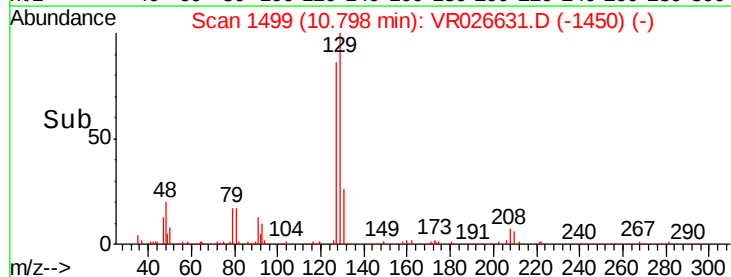
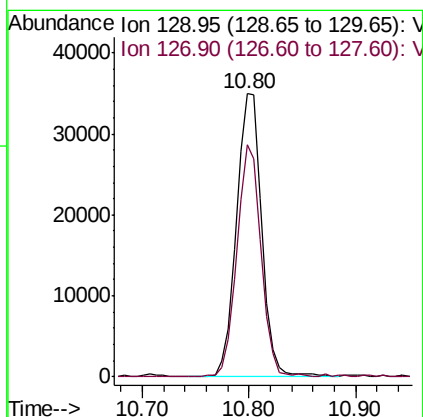
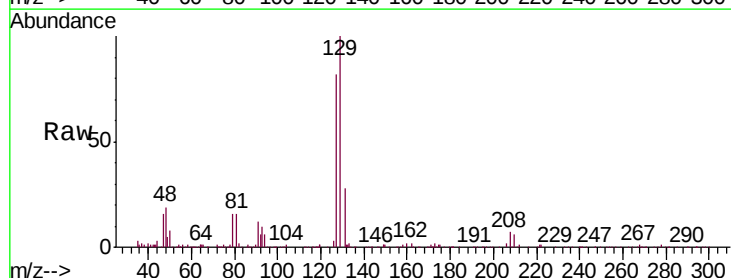
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

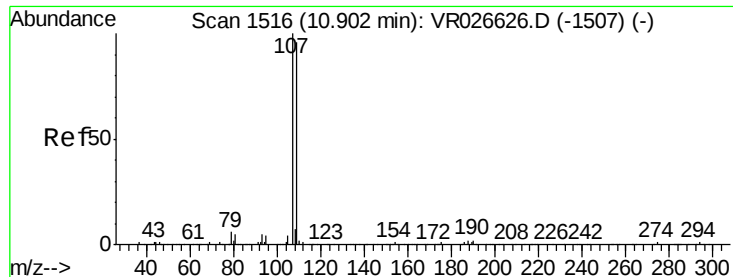
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 205300 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 60.3  | 46.4  | 69.6   |
| 57       | 21.9  | 16.7  | 25.1   |
| 100      | 11.7  | 8.6   | 13.0   |



#49  
Dibromochloromethane  
Concen: 4.435 ug/L  
RT: 10.80 min Scan# 1499  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 58372 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.9  | 57.0  | 105.9 |

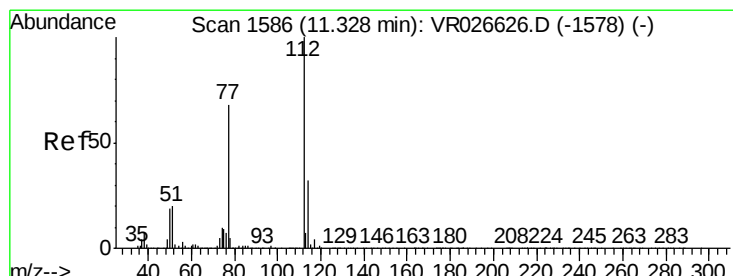
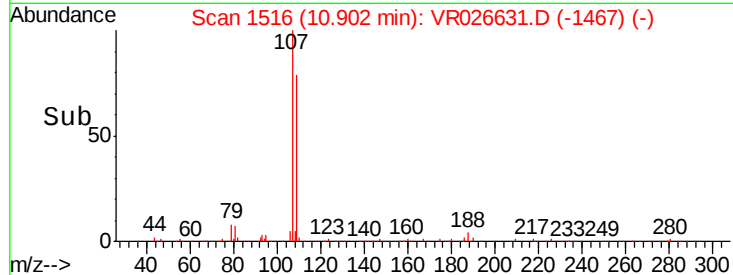
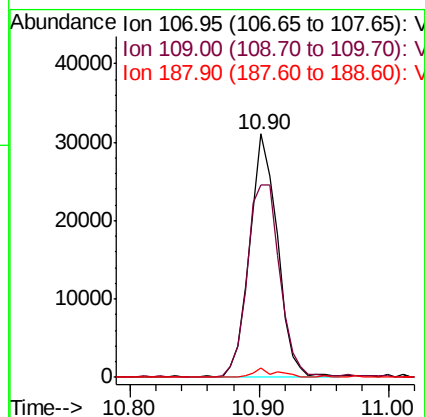
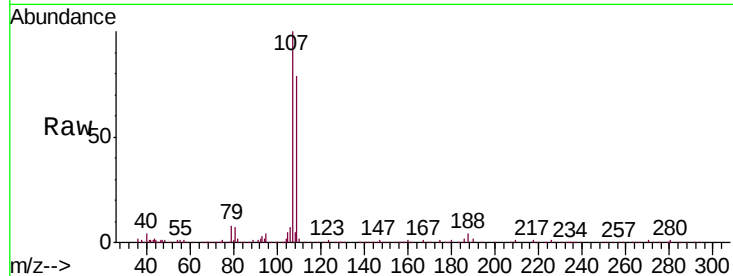




#50  
1,2-Dibromoethane  
Concen: 4.409 ug/L  
RT: 10.90 min Scan# 1516  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

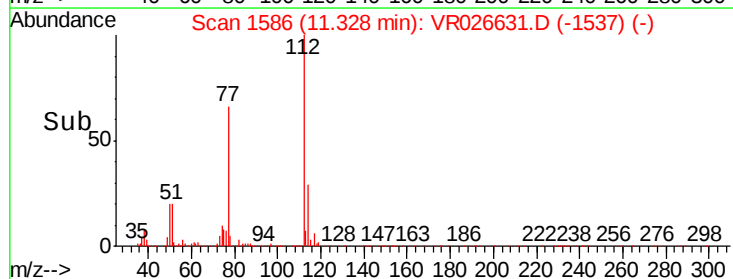
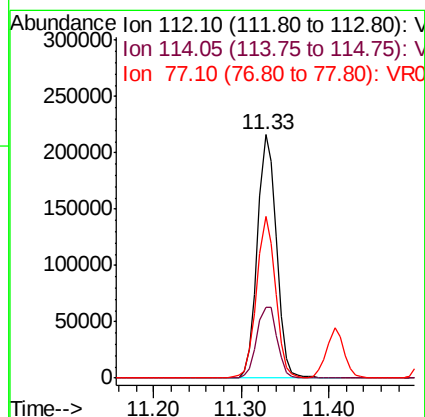
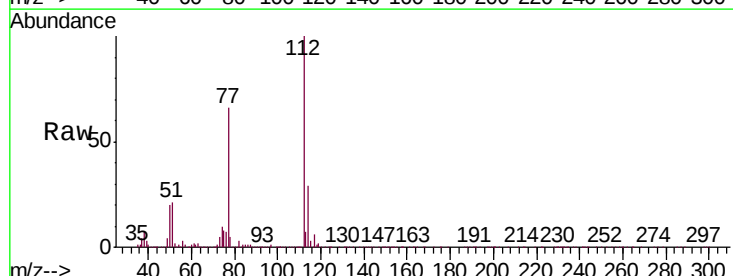
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

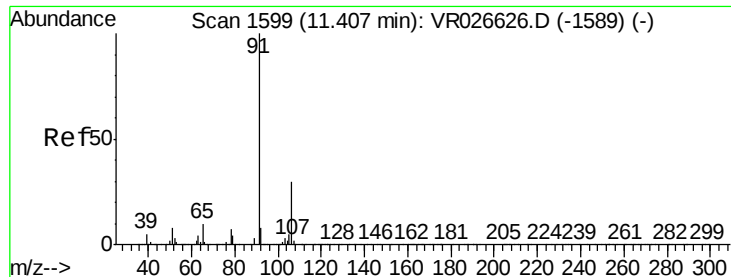
Tgt Ion:107 Resp: 46172  
Ion Ratio Lower Upper  
107 100  
109 79.2 67.2 124.8  
188 3.7 1.8 2.8#



#51  
Chlorobenzene  
Concen: 4.560 ug/L  
RT: 11.33 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Tgt Ion:112 Resp: 324676  
Ion Ratio Lower Upper  
112 100  
114 29.2 22.7 42.1  
77 66.5 54.0 81.0





#52

Ethylbenzene

Concen: 4.837 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

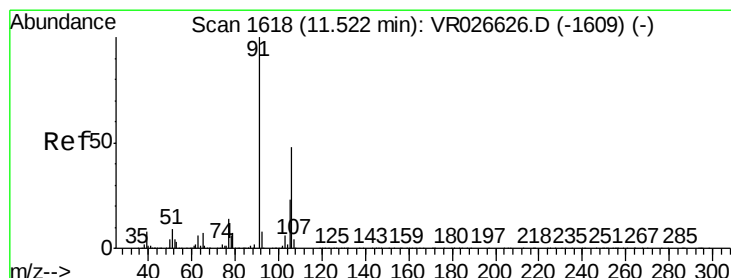
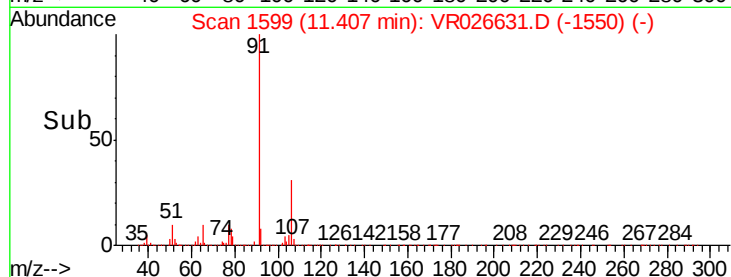
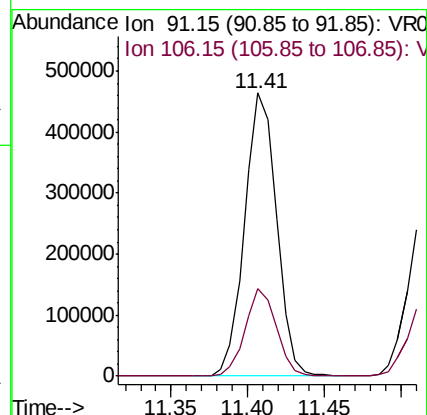
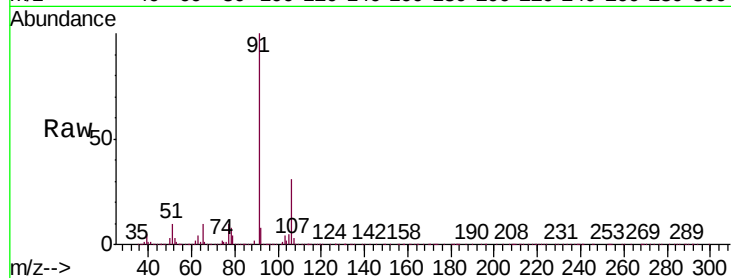
VSTD00569

Tgt Ion: 91 Resp: 672215

Ion Ratio Lower Upper

91 100

106 30.7 21.0 39.0



#53

m,p-Xylene

Concen: 4.998 ug/L

RT: 11.52 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VR026631.D

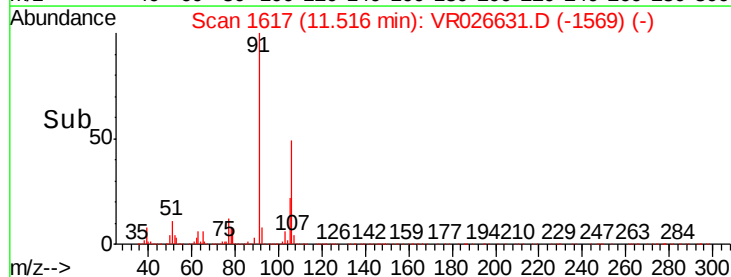
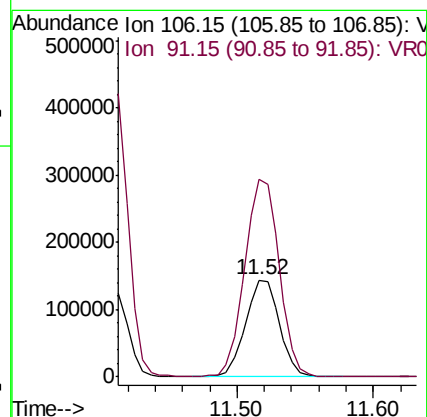
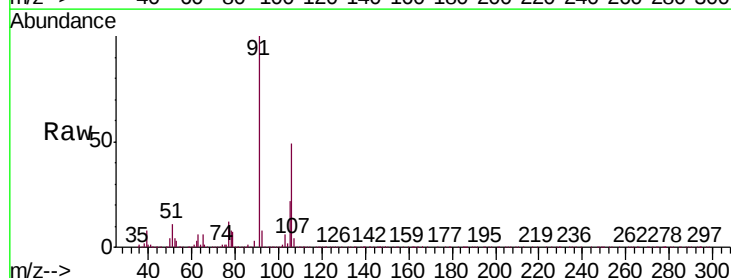
Acq: 13 Sep 2019 11:00

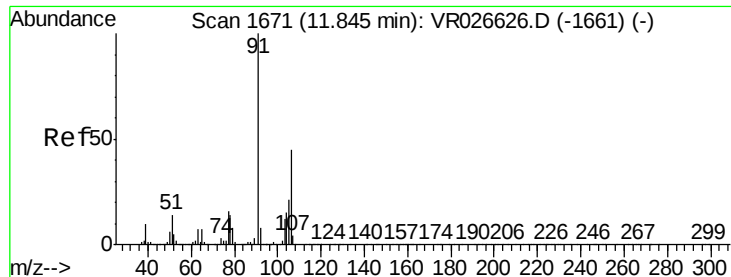
Tgt Ion: 106 Resp: 248379

Ion Ratio Lower Upper

106 100

91 204.9 146.5 272.1

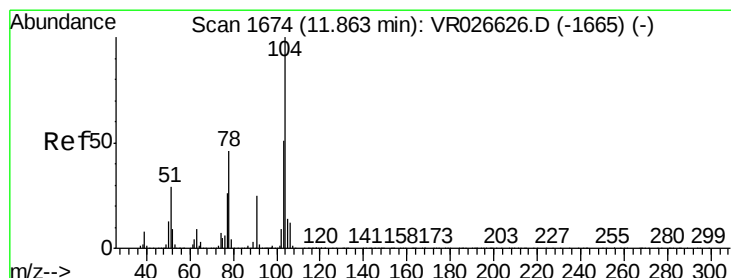
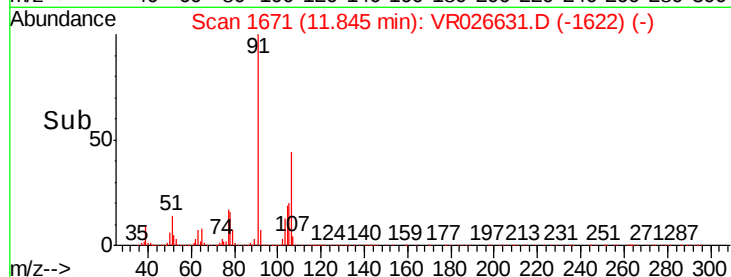
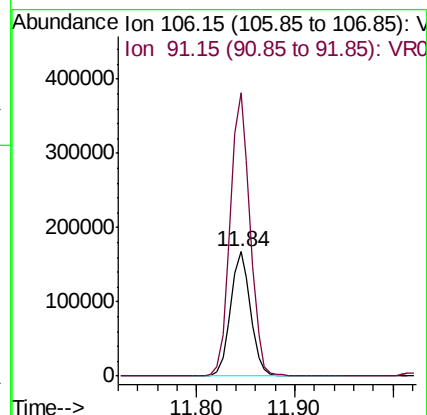
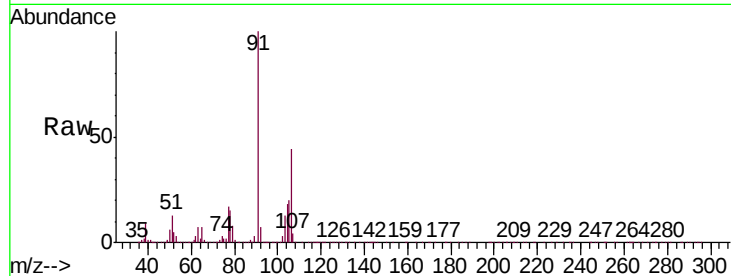




#54  
o-Xylene  
Concen: 4.832 ug/L  
RT: 11.84 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

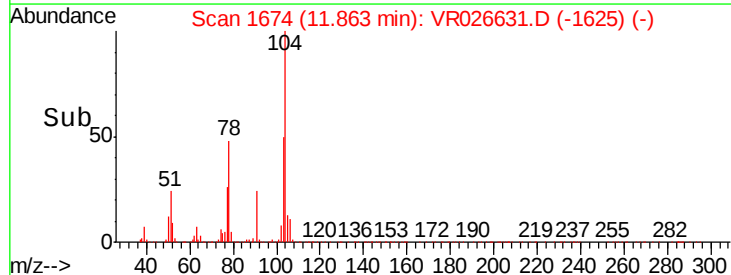
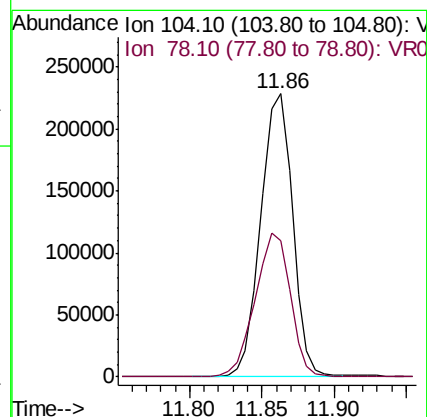
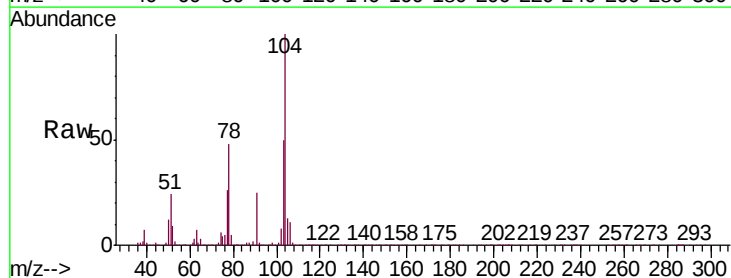
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00569

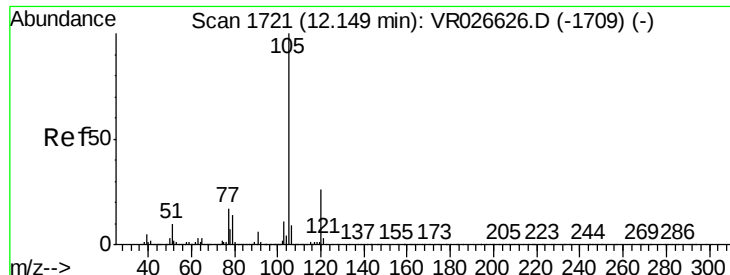
Tgt Ion:106 Resp: 236980  
Ion Ratio Lower Upper  
106 100  
91 227.3 154.3 286.5



#55  
Styrene  
Concen: 4.966 ug/L  
RT: 11.86 min Scan# 1674  
Delta R.T. 0.00 min  
Lab File: VR026631.D  
Acq: 13 Sep 2019 11:00

Tgt Ion:104 Resp: 349206  
Ion Ratio Lower Upper  
104 100  
78 48.2 32.5 60.3





#56

Isopropylbenzene

Concen: 5.115 ug/L

RT: 12.15 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00569

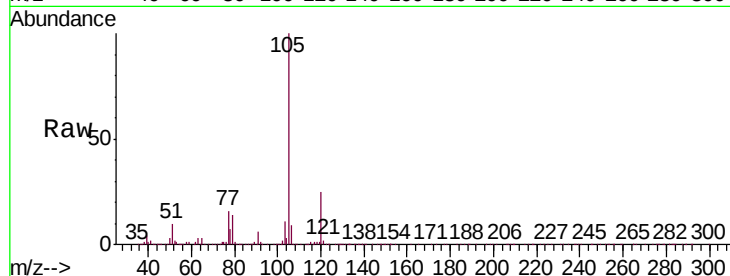
Tgt Ion: 105 Resp: 708808

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

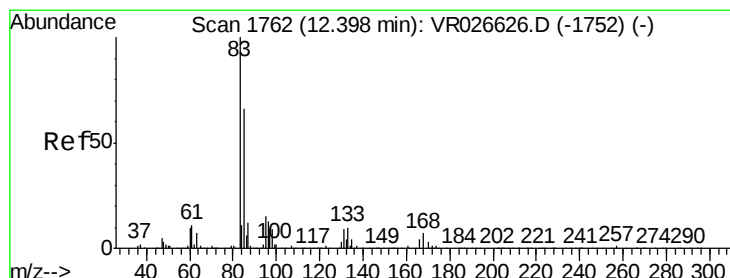
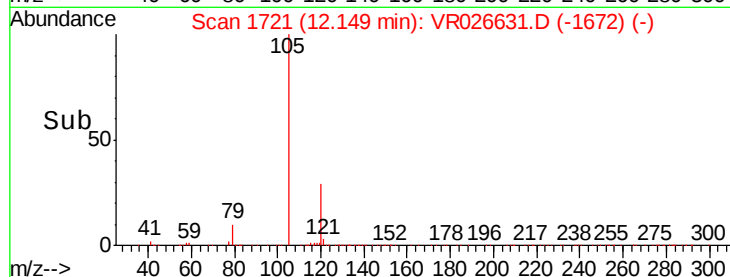
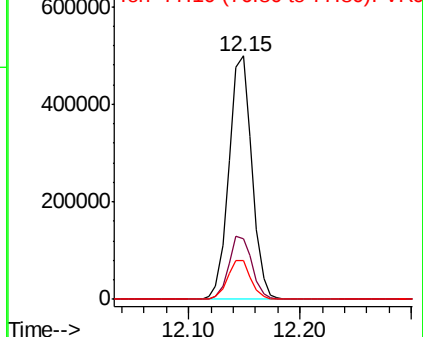
77 16.3 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.384 ug/L

RT: 12.40 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

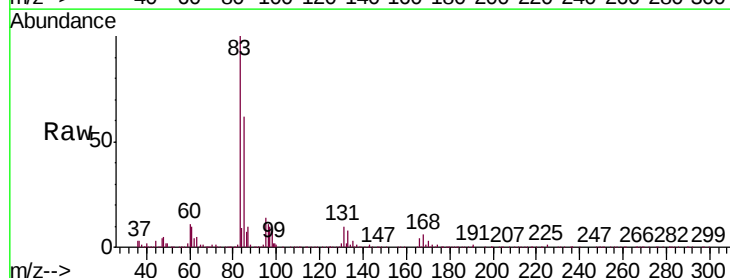
Tgt Ion: 83 Resp: 61312

Ion Ratio Lower Upper

83 100

85 61.9 46.1 85.7

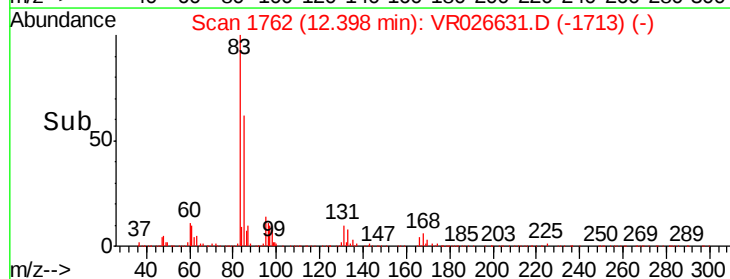
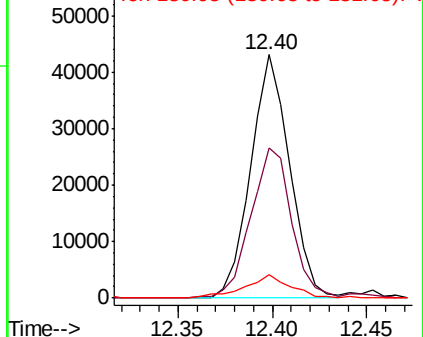
131 9.6 6.8 10.2

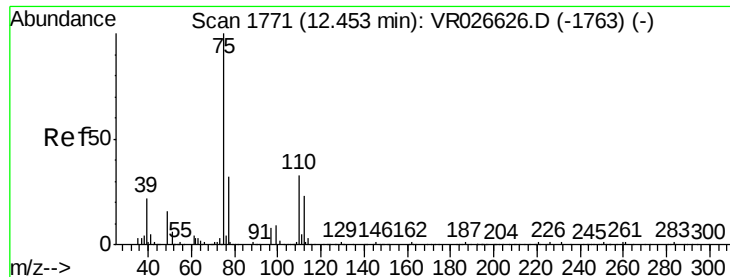


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V

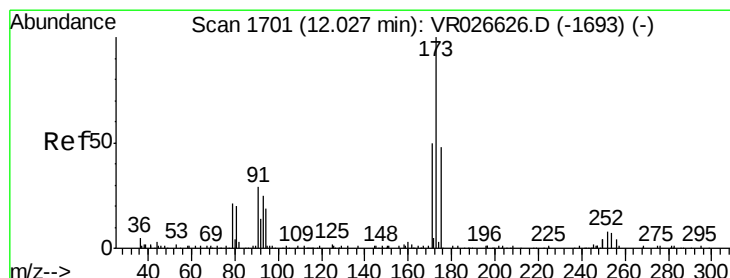
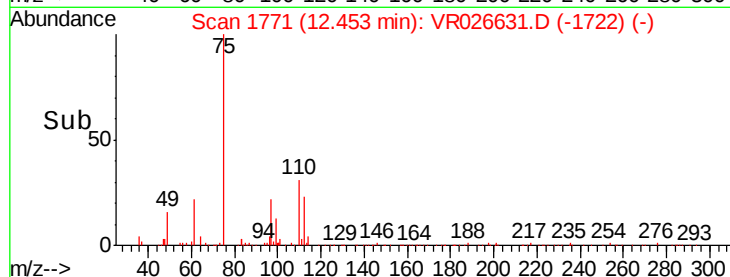
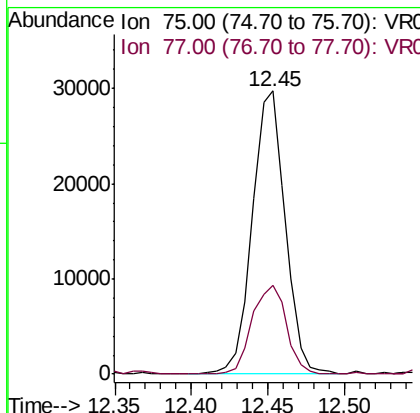
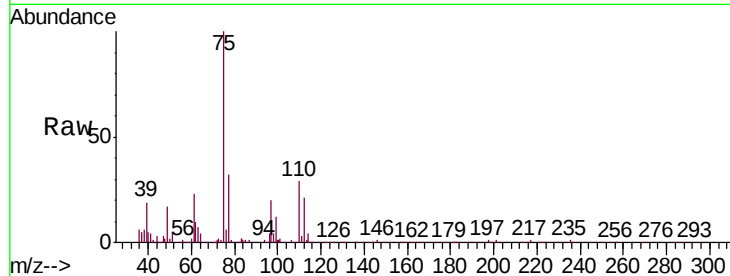




#59  
 1,2,3-Trichloropropane  
 Concen: 4.342 ug/L  
 RT: 12.45 min Scan# 1771  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

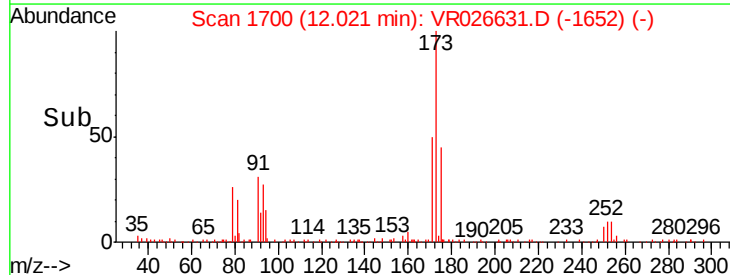
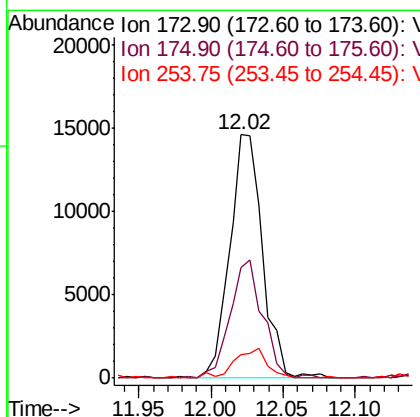
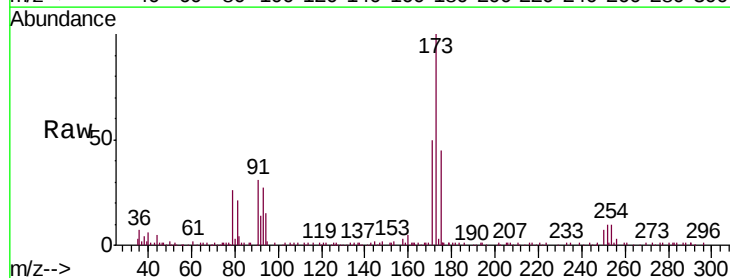
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

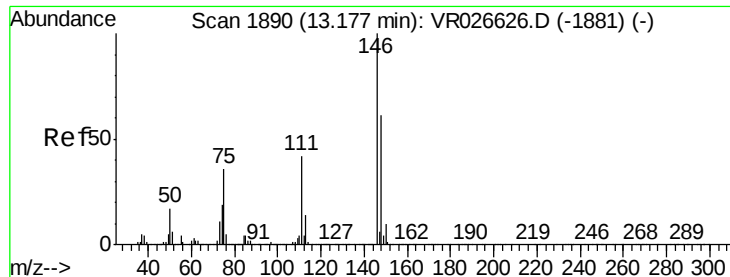
Tgt Ion: 75 Resp: 44535  
 Ion Ratio Lower Upper  
 75 100  
 77 33.1 25.8 38.6



#61  
 Bromoform  
 Concen: 4.002 ug/L  
 RT: 12.02 min Scan# 1700  
 Delta R.T. -0.01 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

Tgt Ion: 173 Resp: 23130  
 Ion Ratio Lower Upper  
 173 100  
 175 48.1 40.2 60.2  
 254 12.2 8.7 13.1

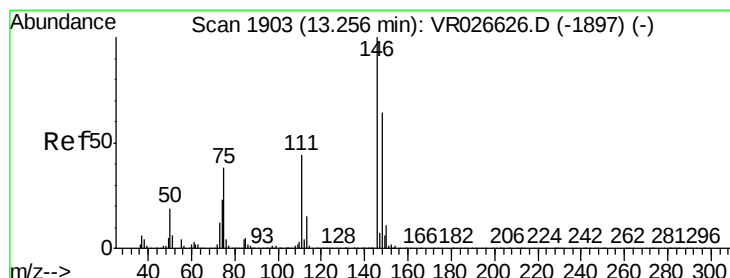
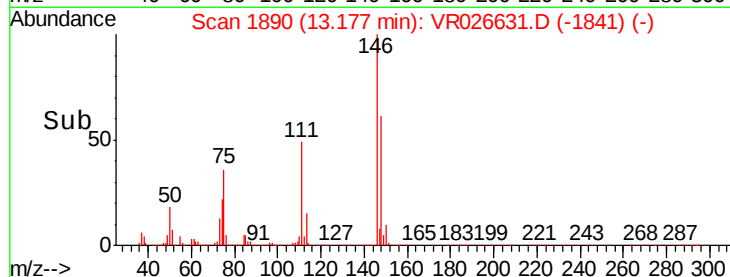
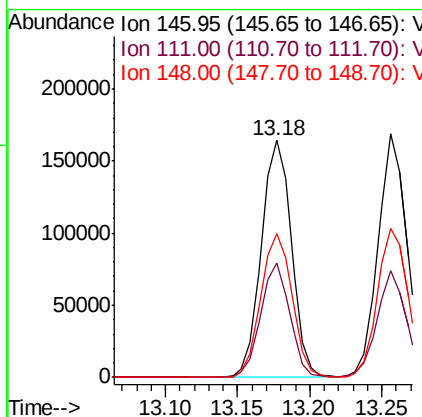
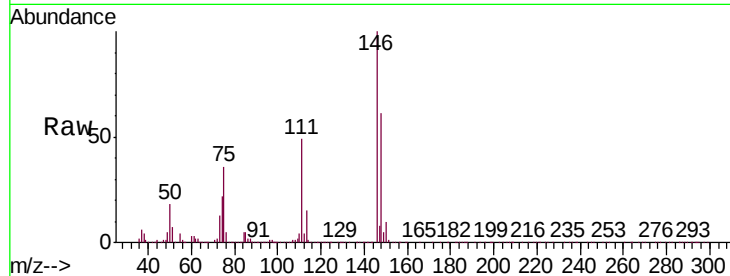




#62  
 1,3-Dichlorobenzene  
 Concen: 4.496 ug/L  
 RT: 13.18 min Scan# 1890  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

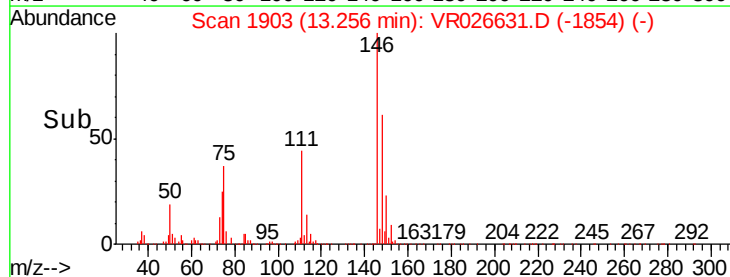
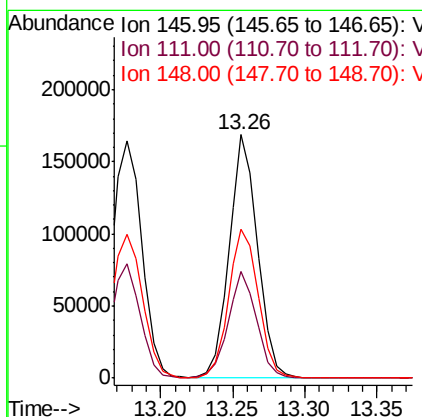
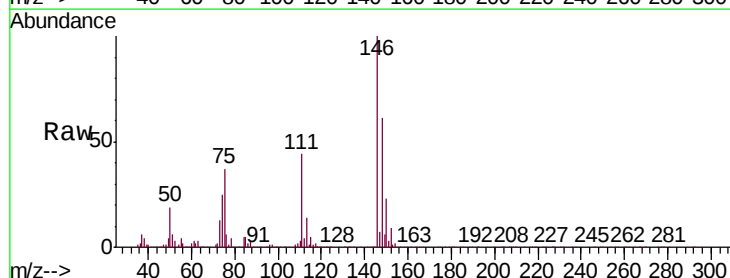
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

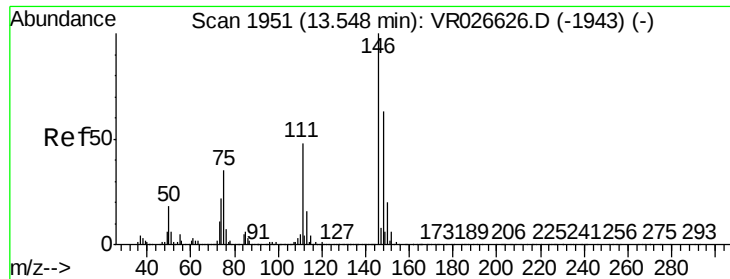
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.5  | 29.5  | 54.9  |
| 148     | 61.0  | 42.8  | 79.4  |



#63  
 1,4-Dichlorobenzene  
 Concen: 4.441 ug/L  
 RT: 13.26 min Scan# 1903  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.7  | 31.1  | 57.9  |
| 148     | 61.1  | 44.6  | 82.8  |

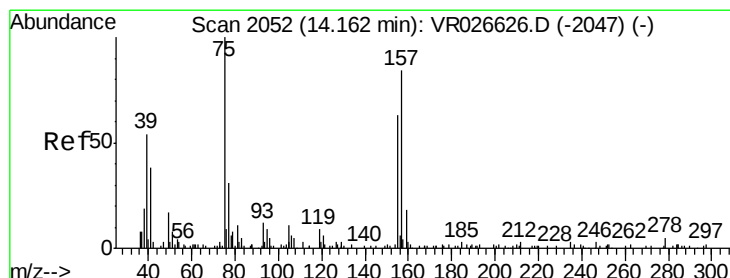
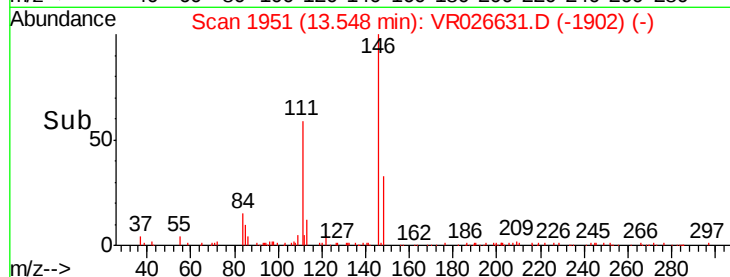
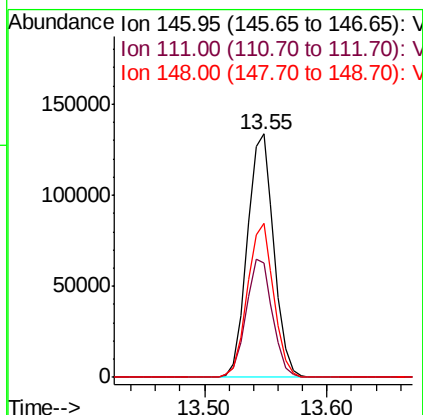
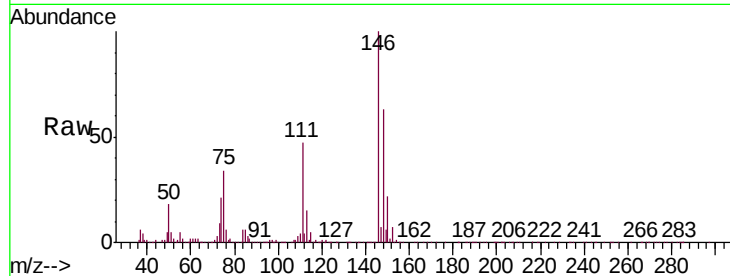




#65  
 1,2-Dichlorobenzene  
 Concen: 4.500 ug/L  
 RT: 13.55 min Scan# 1951  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

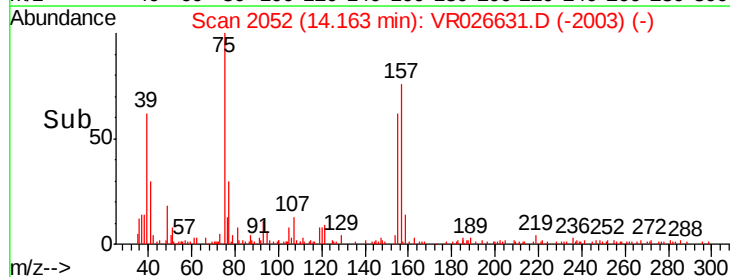
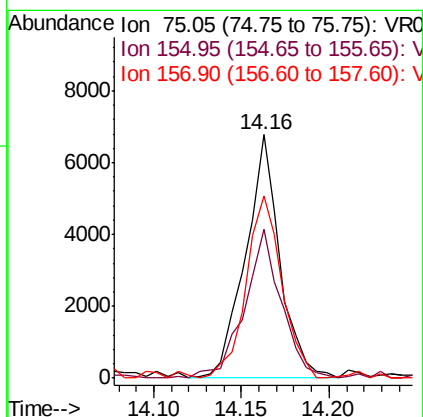
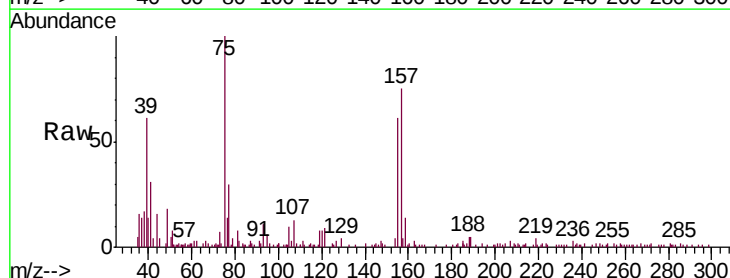
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

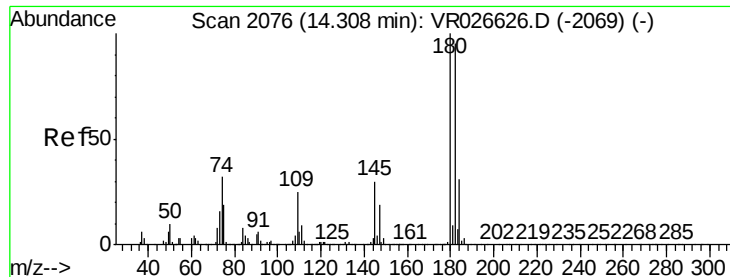
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.2  | 38.2  | 57.2  |
| 148     | 63.2  | 50.1  | 75.1  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.153 ug/L  
 RT: 14.16 min Scan# 2052  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 61.4  | 49.4  | 74.2  |
| 157     | 74.7  | 65.2  | 97.8  |

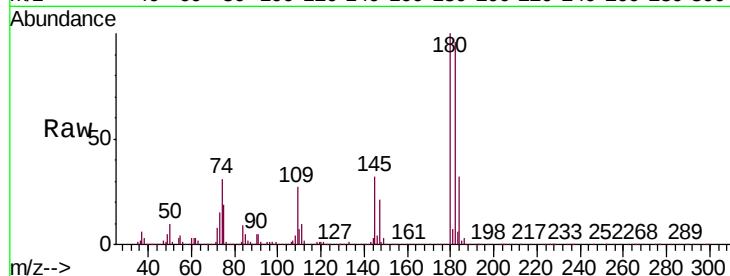




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.702 ug/L  
 RT: 14.31 min Scan# 2076  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00569

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 200336 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 93.5  | 76.3  | 114.5  |
| 184      | 30.3  | 24.4  | 36.6   |
| 145      | 31.0  | 25.1  | 37.7   |



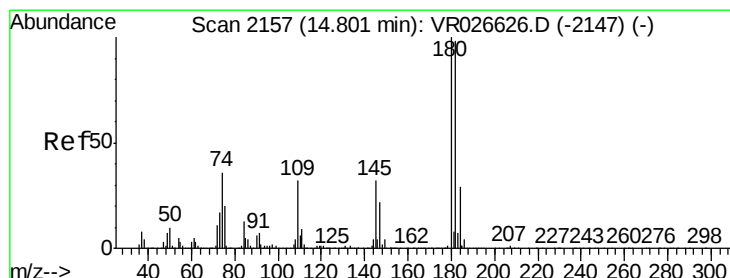
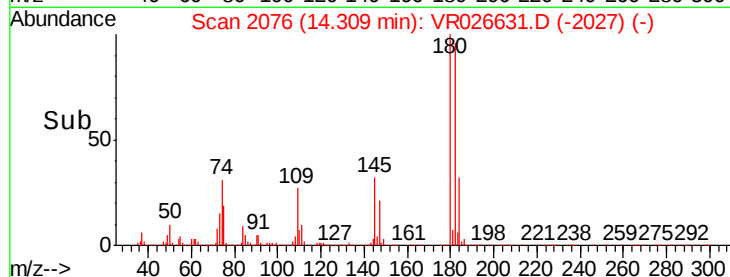
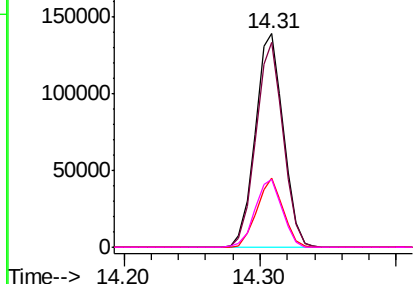
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

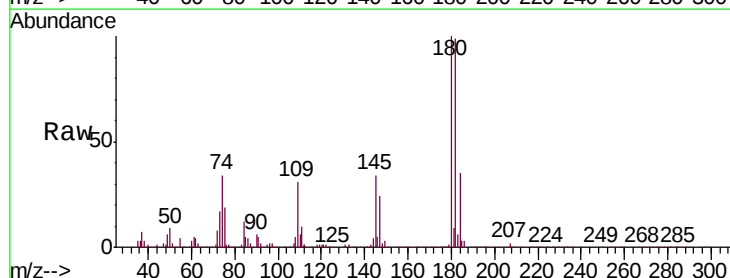
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.595 ug/L  
 RT: 14.80 min Scan# 2157  
 Delta R.T. 0.00 min  
 Lab File: VR026631.D  
 Acq: 13 Sep 2019 11:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 138116 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.2  | 75.1  | 112.7  |
| 145      | 33.6  | 25.9  | 38.9   |

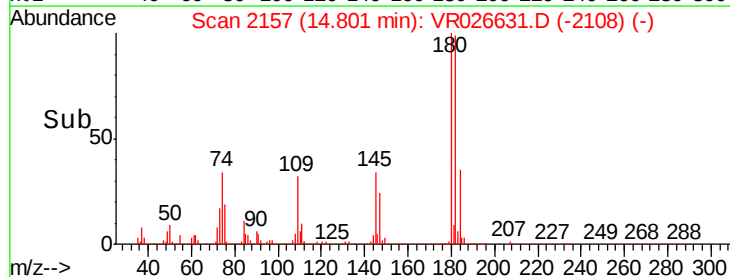
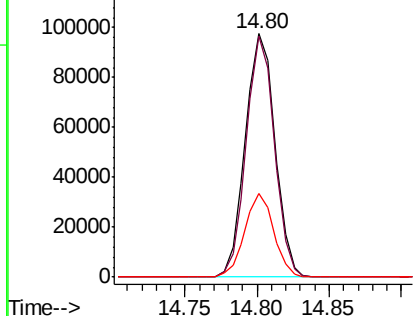


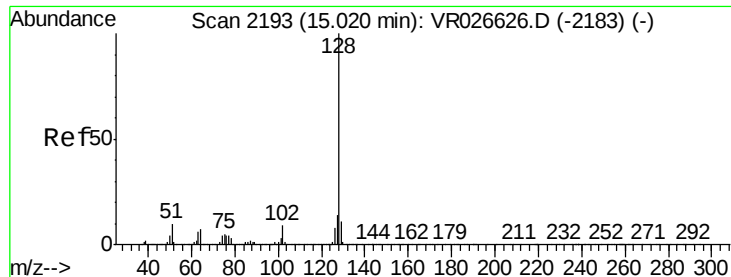
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.345 ug/L

RT: 15.02 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00569

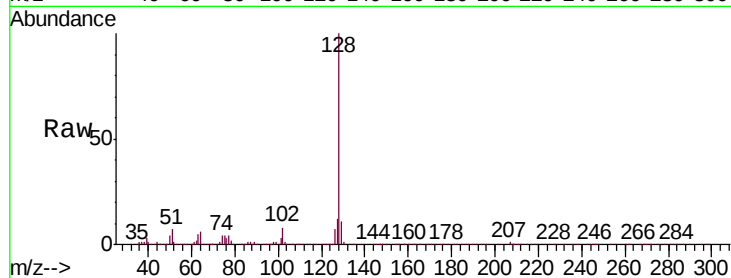
Tgt Ion:128 Resp: 173661

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

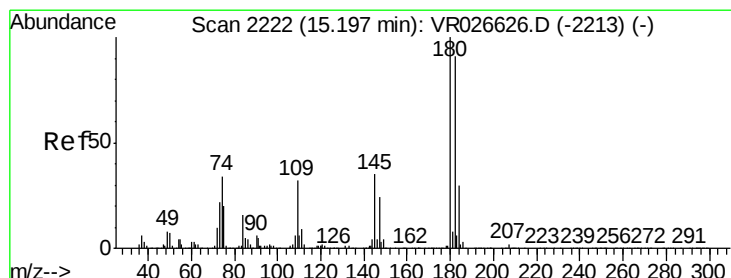
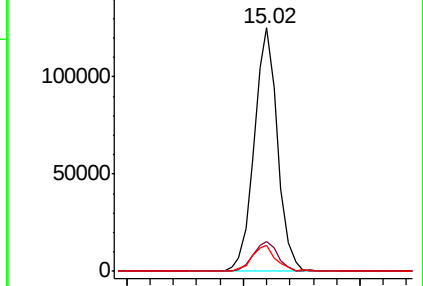
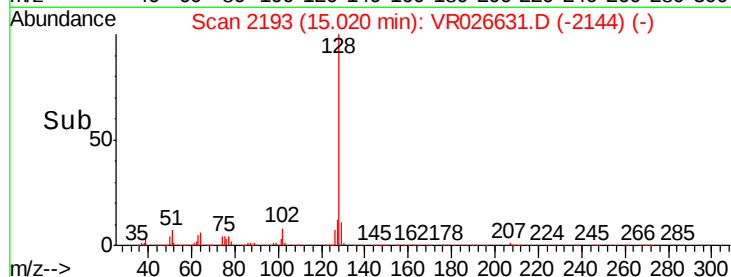
129 11.2 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.590 ug/L

RT: 15.20 min Scan# 2222

Delta R.T. 0.00 min

Lab File: VR026631.D

Acq: 13 Sep 2019 11:00

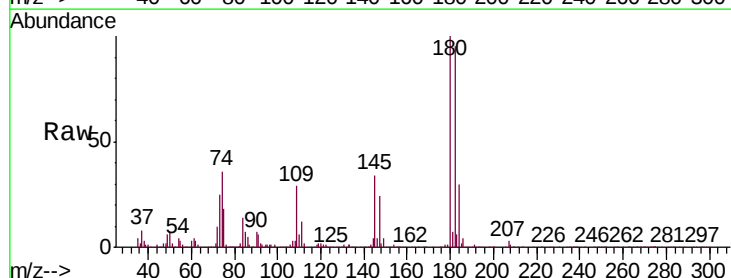
Tgt Ion:180 Resp: 122204

Ion Ratio Lower Upper

180 100

182 95.1 76.2 114.4

145 33.5 28.6 42.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

