

Data File : VR026414.D  
Acq On : 28 Feb 2019 12:11  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

Quant Time: Mar 01 06:30:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR022219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 28 07:30:14 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 534618   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 430239   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 167134   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 222614   | 4.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.20% |
| 7) Chloroethane-d5             | 2.62   | 69    | 185931   | 4.33     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.60% |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 571289   | 4.65     | ug/L | 0.01   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.00% |
| 20) 2-Butanone-d5              | 6.59   | 46    | 164507   | 43.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 86.20% |
| 24) Chloroform-d               | 7.20   | 84    | 381948   | 4.48     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.60% |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 148990   | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.20% |
| 32) Benzene-d6                 | 7.85   | 84    | 738542   | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40% |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 181012   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 88.40% |
| 41) Toluene-d8                 | 9.97   | 98    | 682983   | 4.68     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60% |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 44091    | 4.08     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.60% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 135943   | 49.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.62% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 66302    | 4.27     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 85.40% |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 125622   | 4.35     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 87.00% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 211720 | 4.693 ug/L   | 100    |
| 3) Chloromethane               | 2.01 | 50  | 274704 | 4.824 ug/L   | 96     |
| 5) Vinyl chloride              | 2.16 | 62  | 265581 | 4.810 ug/L   | 95     |
| 6) Bromomethane                | 2.52 | 94  | 152163 | 4.784 ug/L   | 92     |
| 8) Chloroethane                | 2.65 | 64  | 156396 | 4.708 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 384114 | 5.346 ug/L # | 53     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 211506 | 5.052 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 226121 | 4.841 ug/L   | 98     |
| 13) Acetone                    | 3.69 | 43  | 167942 | 48.906 ug/L  | 98     |
| 14) Carbon disulfide           | 3.94 | 76  | 669137 | 4.497 ug/L   | 97     |
| 15) Methyl Acetate             | 4.19 | 43  | 43082  | 4.433 ug/L   | 99     |
| 16) Methylene chloride         | 4.40 | 84  | 178937 | 4.384 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 225152 | 5.152 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 204382 | 4.797 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 373260 | 4.782 ug/L   | 95     |
| 21) 2-Butanone                 | 6.68 | 43  | 216264 | 50.249 ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 177858 | 4.972 ug/L   | 86     |

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ClientSampleId :  
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QLast Update : Thu Feb 28 07:30:14 2019  
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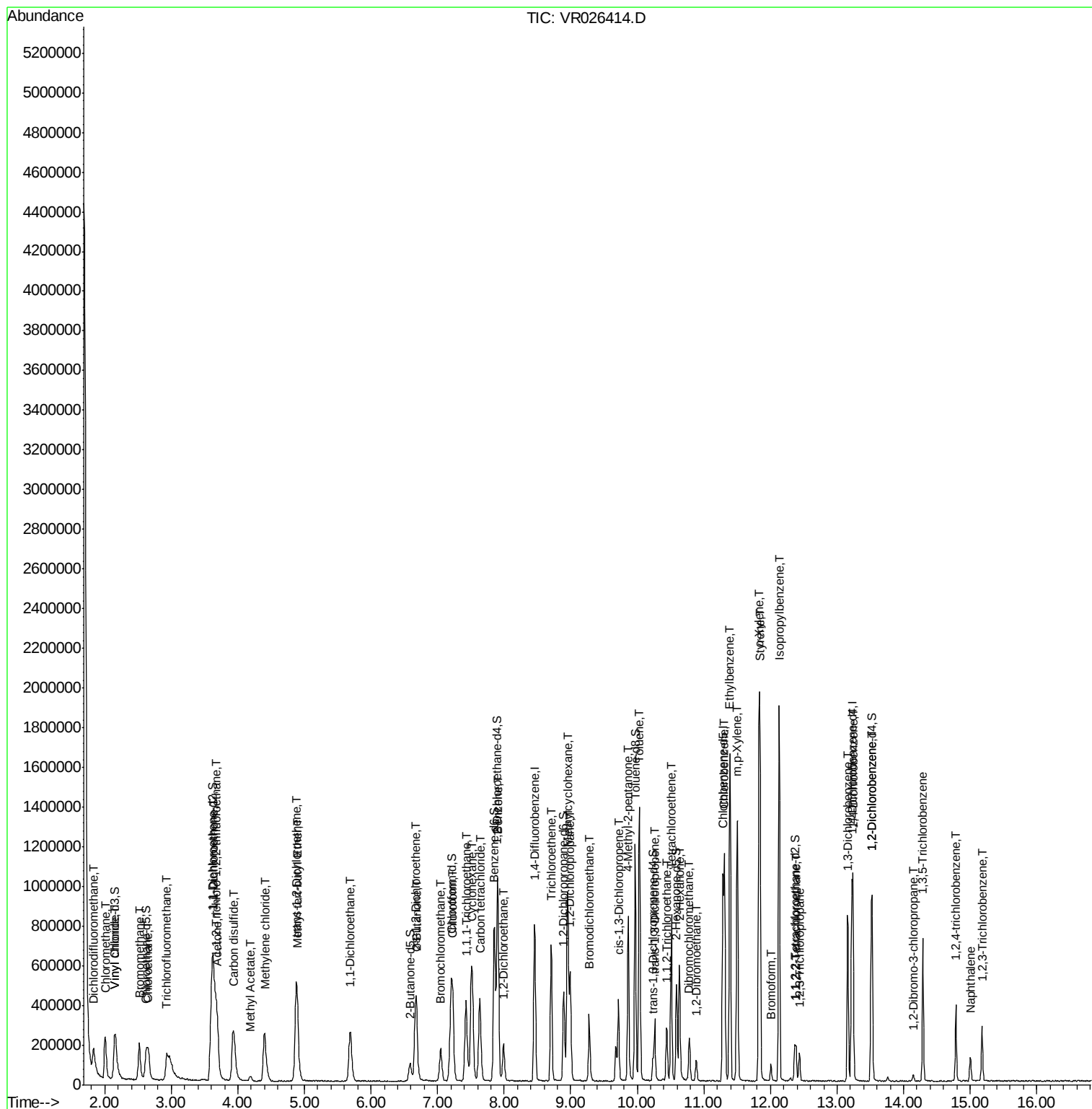
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.04  | 128  | 50700    | 4.575  | ug/L   | 95       |
| 25) Chloroform                 | 7.23  | 83   | 362707   | 4.847  | ug/L   | 96       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 171004   | 4.829  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 322213   | 5.168  | ug/L   | 98       |
| 30) Cyclohexane                | 7.51  | 56   | 335069   | 5.620  | ug/L   | 97       |
| 31) Carbon tetrachloride       | 7.63  | 117  | 310599   | 5.359  | ug/L   | 100      |
| 33) Benzene                    | 7.90  | 78   | 803690   | 4.861  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 207584   | 4.991  | ug/L   | 94       |
| 35) Methylcyclohexane          | 8.95  | 83   | 325644   | 5.520  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 8.99  | 63   | 172057   | 4.900  | ug/L # | 97       |
| 38) Bromodichloromethane       | 9.28  | 83   | 200357   | 4.977  | ug/L   | 92       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 191577   | 4.996  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 9.86  | 43   | 522971   | 54.475 | ug/L   | 99       |
| 42) Toluene                    | 10.03 | 91   | 843442   | 5.079  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 139346   | 4.984  | ug/L   | 91       |
| 45) 1,1,2-Trichloroethane      | 10.44 | 97   | 67588    | 4.659  | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.51 | 164  | 151265   | 5.016  | ug/L   | 97       |
| 48) 2-Hexanone                 | 10.63 | 43   | 352709   | 53.170 | ug/L   | 100      |
| 49) Dibromochloromethane       | 10.78 | 129  | 89763    | 4.978  | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 10.88 | 107  | 56785    | 5.022  | ug/L   | 98       |
| 51) Chlorobenzene              | 11.31 | 112  | 451101   | 4.968  | ug/L   | 99       |
| 52) Ethylbenzene               | 11.39 | 91   | 999433   | 5.355  | ug/L   | 97       |
| 53) m,p-Xylene                 | 11.50 | 106  | 353448   | 5.312  | ug/L   | 98       |
| 54) o-Xylene                   | 11.83 | 106  | 316032   | 5.442  | ug/L   | 96       |
| 55) Styrene                    | 11.84 | 104  | 487007   | 5.305  | ug/L   | 96       |
| 56) Isopropylbenzene           | 12.13 | 105  | 959897   | 5.820  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 66686    | 5.046  | ug/L # | 96       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 48716    | 5.035  | ug/L   | 97       |
| 61) Bromoform                  | 12.00 | 173  | 33598    | 4.335  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 258692   | 5.095  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 279404   | 4.957  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 209423   | 4.986  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 7807     | 4.994  | ug/L # | 74       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 160624   | 5.107  | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 89318    | 4.947  | ug/L   | 99       |
| 69) Naphthalene                | 15.00 | 128  | 80797    | 4.847  | ug/L   | 97       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 66891    | 5.260  | ug/L   | 95       |

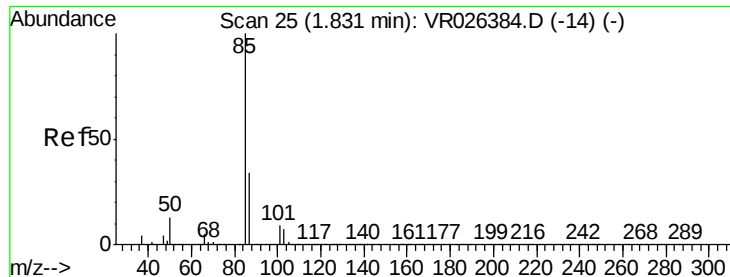
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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#2

Dichlorodifluoromethane

Concen: 4.693 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

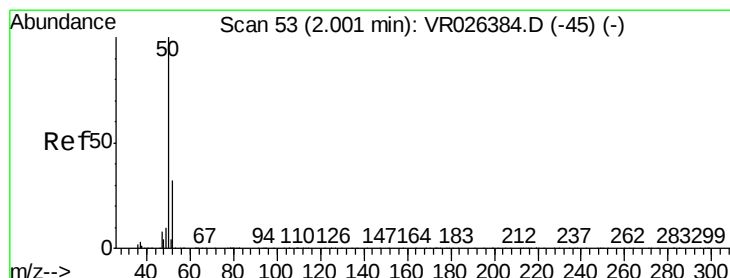
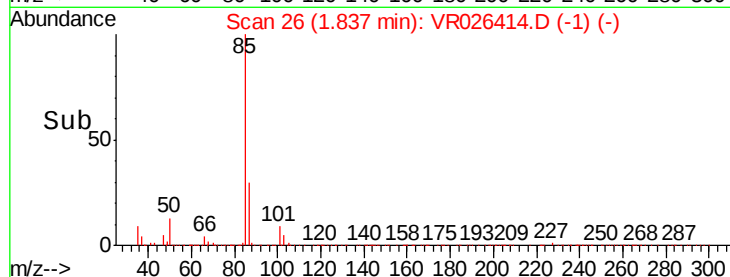
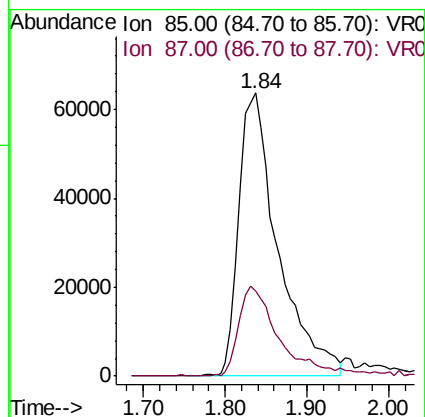
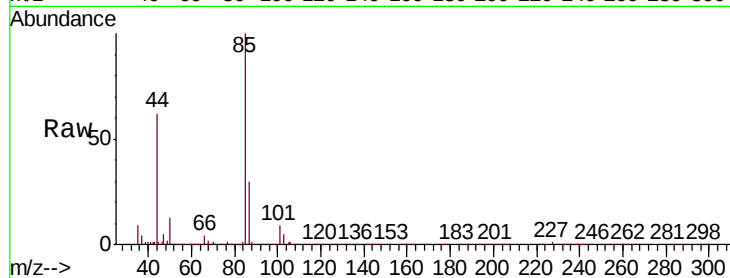
VSTD00593

Tgt Ion: 85 Resp: 211720

Ion Ratio Lower Upper

85 100

87 33.5 26.6 40.0



#3

Chloromethane

Concen: 4.824 ug/L

RT: 2.01 min Scan# 54

Delta R.T. 0.00 min

Lab File: VR026414.D

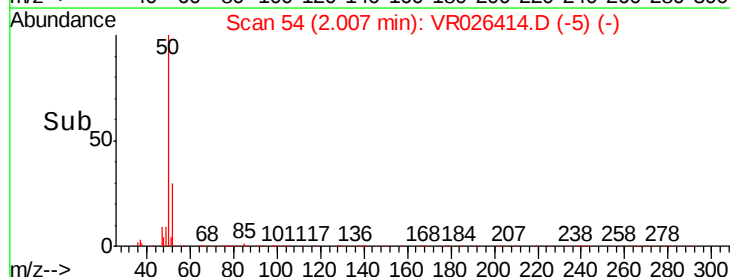
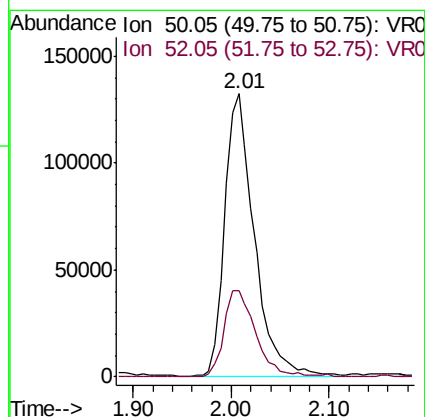
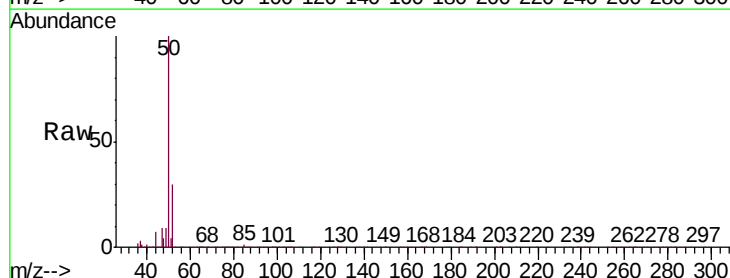
Acq: 28 Feb 2019 12:11

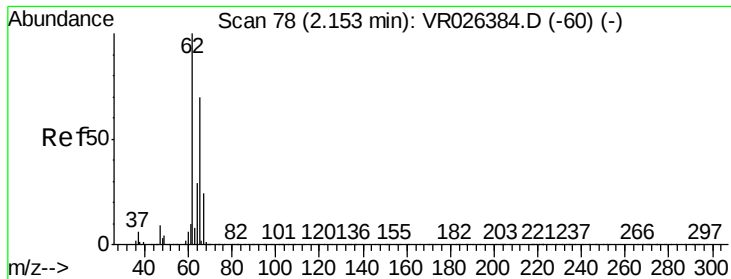
Tgt Ion: 50 Resp: 274704

Ion Ratio Lower Upper

50 100

52 30.4 22.7 42.3





#5

Vinyl chloride

Concen: 4.810 ug/L

RT: 2.16 min Scan# 79

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

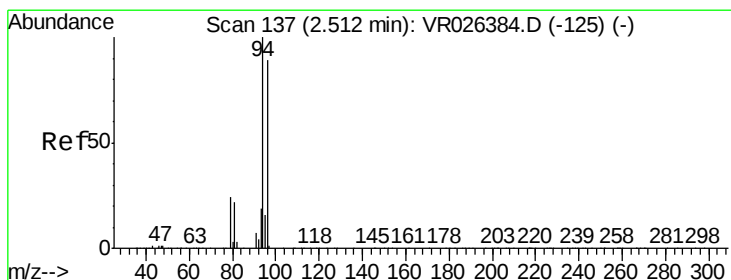
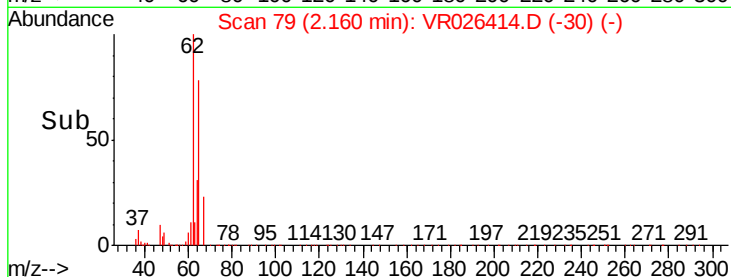
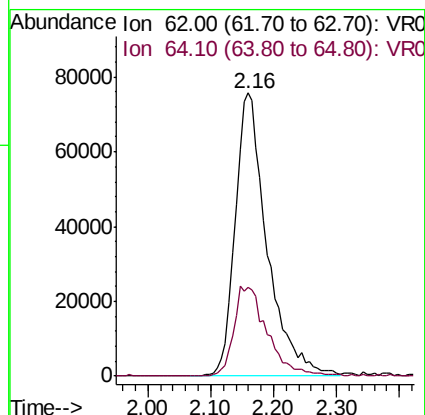
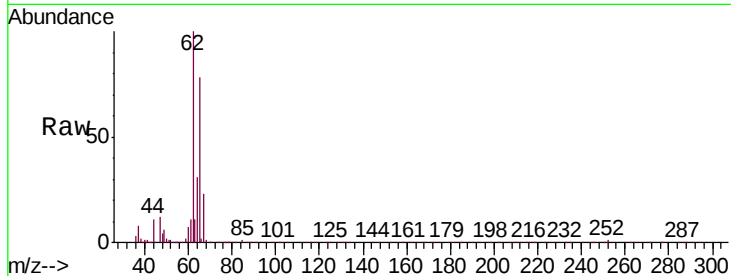
VSTD00593

Tgt Ion: 62 Resp: 265581

Ion Ratio Lower Upper

62 100

64 31.3 24.1 44.7



#6

Bromomethane

Concen: 4.784 ug/L

RT: 2.52 min Scan# 138

Delta R.T. 0.00 min

Lab File: VR026414.D

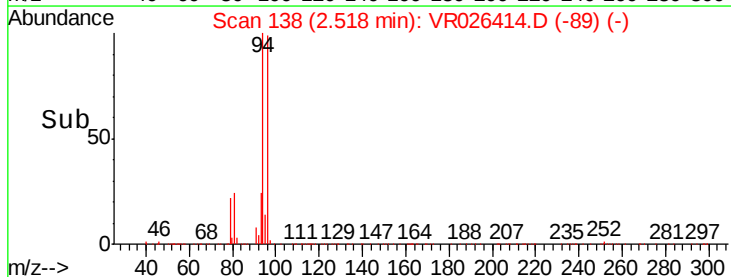
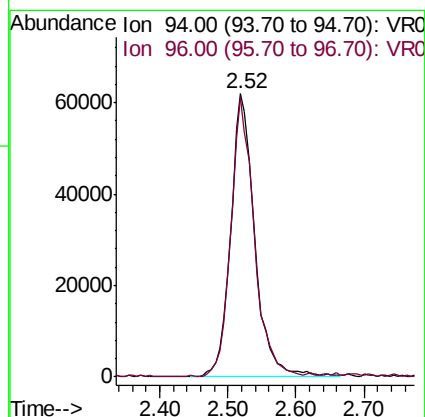
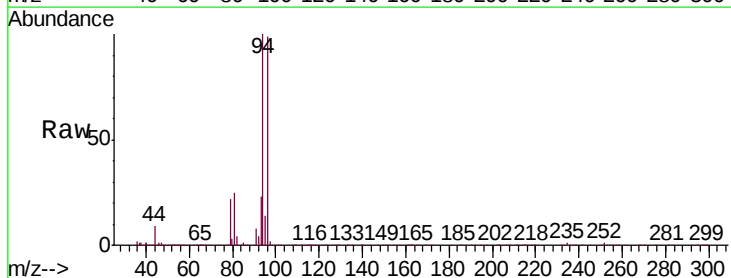
Acq: 28 Feb 2019 12:11

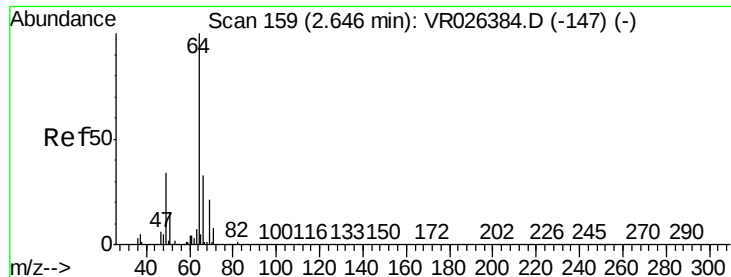
Tgt Ion: 94 Resp: 152163

Ion Ratio Lower Upper

94 100

96 99.0 64.3 119.3





#8

Chloroethane

Concen: 4.708 ug/L

RT: 2.65 min Scan# 160

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

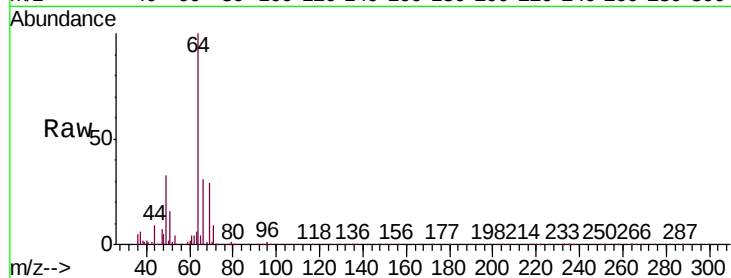
VSTD00593

Tgt Ion: 64 Resp: 156396

Ion Ratio Lower Upper

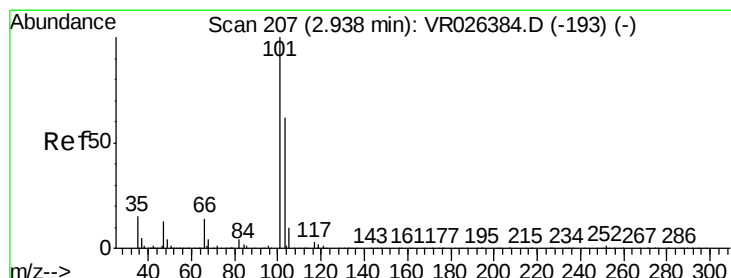
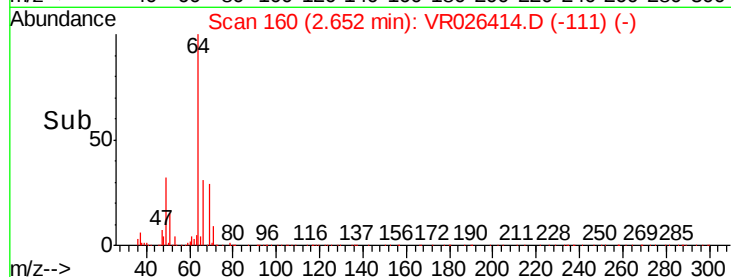
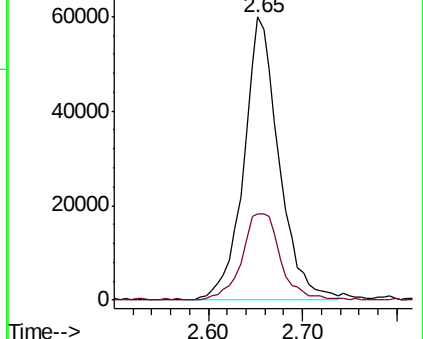
64 100

66 30.7 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



#9

Trichlorofluoromethane

Concen: 5.346 ug/L

RT: 2.93 min Scan# 206

Delta R.T. 0.00 min

Lab File: VR026414.D

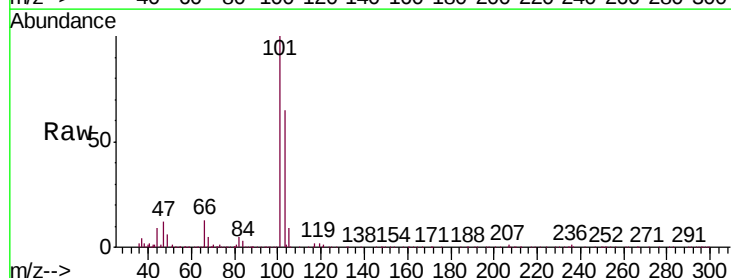
Acq: 28 Feb 2019 12:11

Tgt Ion: 101 Resp: 384114

Ion Ratio Lower Upper

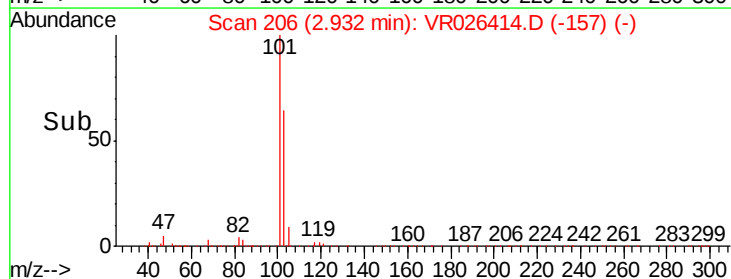
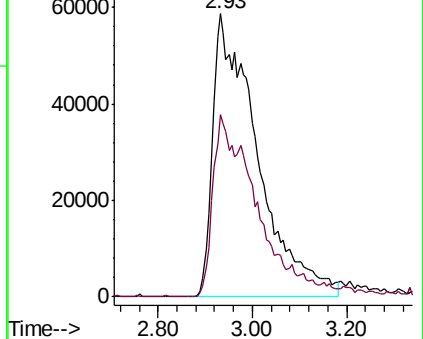
101 100

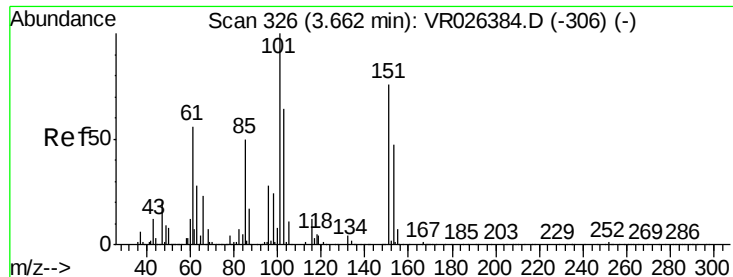
103 28.2 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 5.052 ug/L

RT: 3.68 min Scan# 329

Delta R.T. 0.01 min

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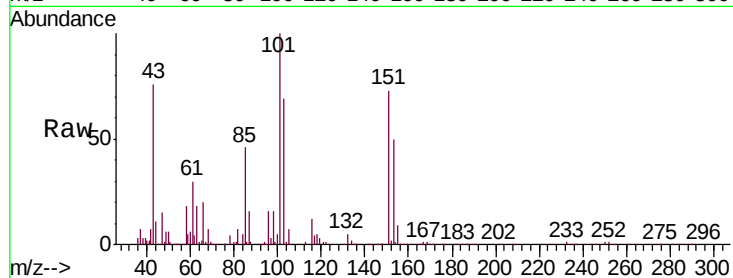
Tgt Ion:101 Resp: 211506

Ion Ratio Lower Upper

101 100

85 49.7 39.8 59.8

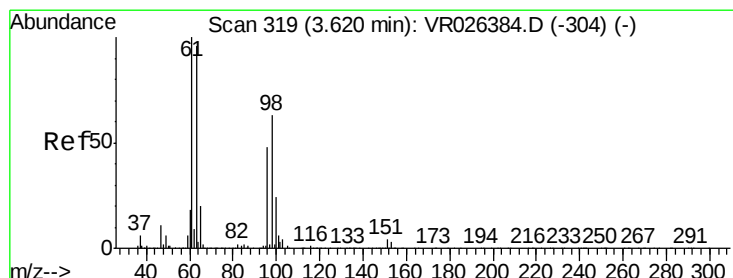
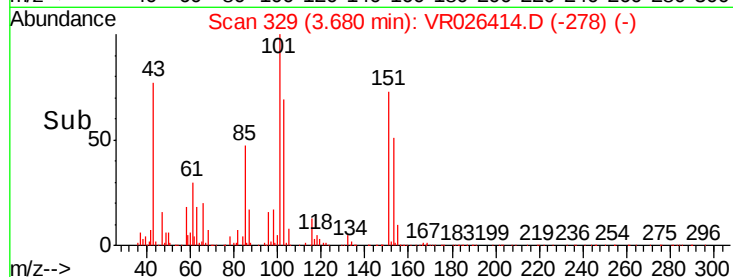
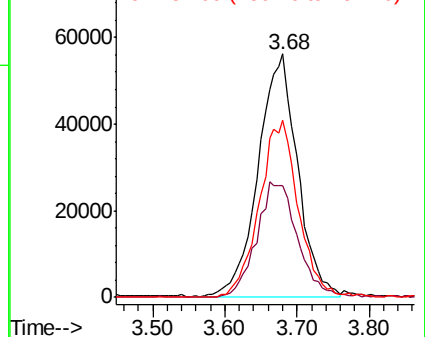
151 72.1 60.8 91.2



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: 4.841 ug/L

RT: 3.63 min Scan# 320

Delta R.T. 0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

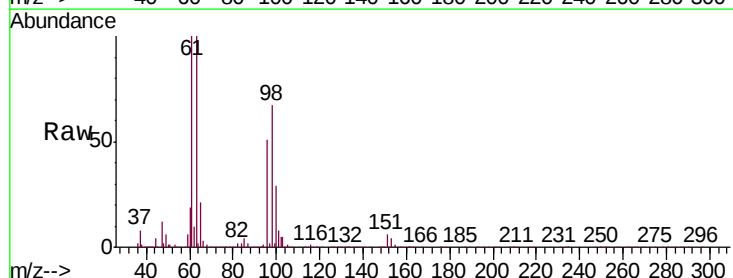
Tgt Ion: 96 Resp: 226121

Ion Ratio Lower Upper

96 100

61 197.2 135.9 252.5

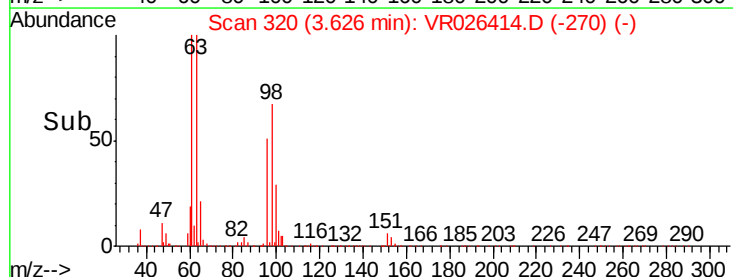
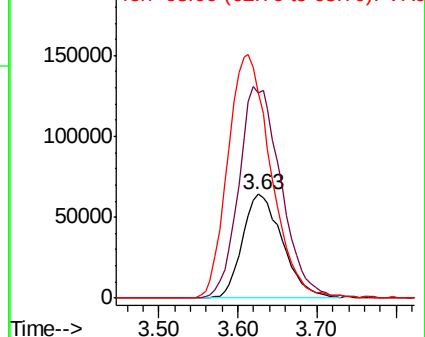
63 197.6 136.6 253.6

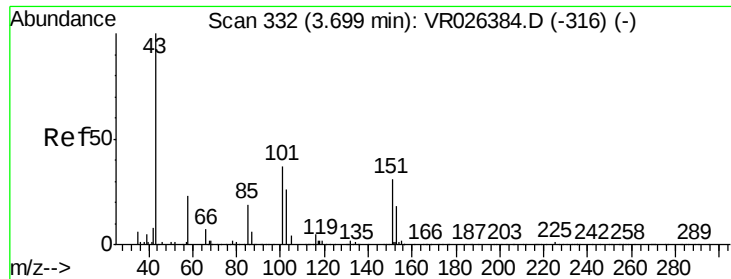


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 48.906 ug/L

RT: 3.69 min Scan# 331

Delta R.T. -0.01 min

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MSVOA\_R

ClientSampleId :

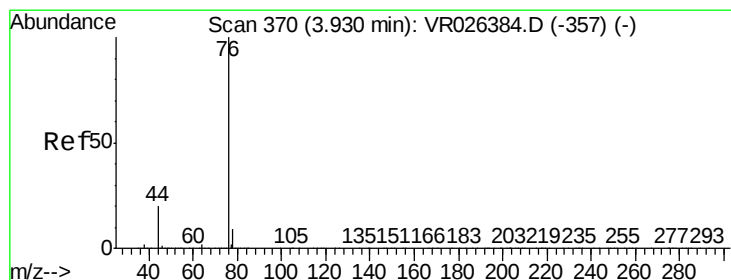
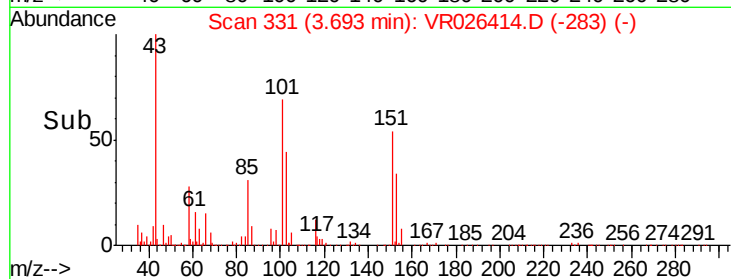
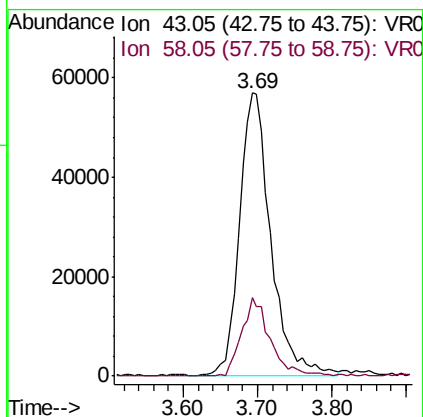
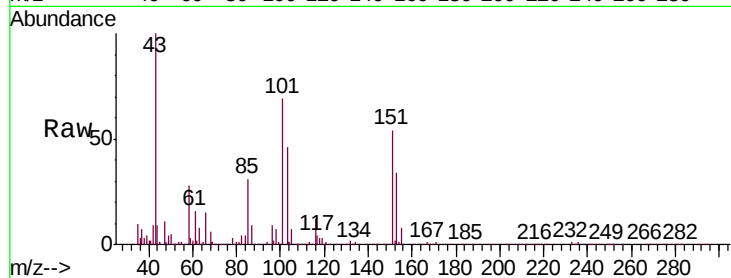
VSTD00593

Tgt Ion: 43 Resp: 167942

Ion Ratio Lower Upper

43 100

58 24.9 0.0 52.2



#14

Carbon disulfide

Concen: 4.497 ug/L

RT: 3.94 min Scan# 371

Delta R.T. 0.01 min

Lab File: VR026414.D

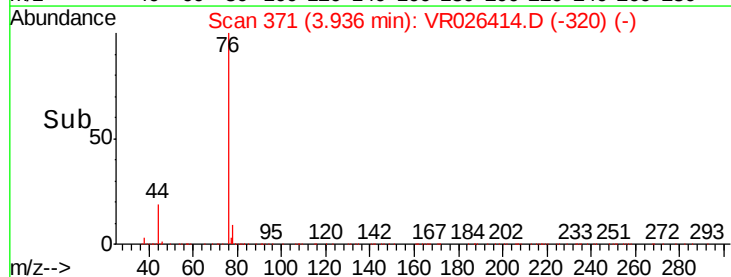
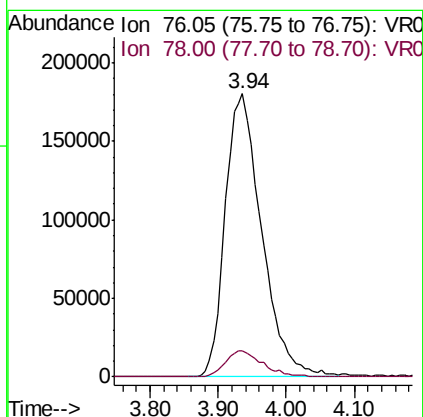
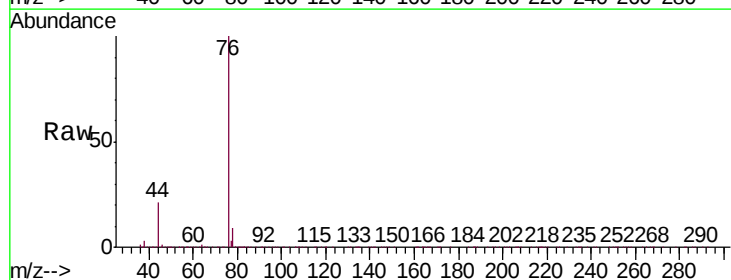
Acq: 28 Feb 2019 12:11

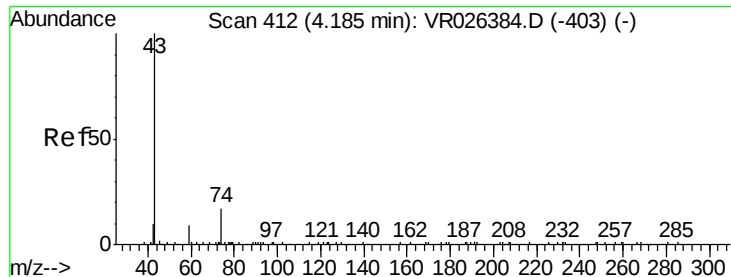
Tgt Ion: 76 Resp: 669137

Ion Ratio Lower Upper

76 100

78 9.4 6.7 10.1

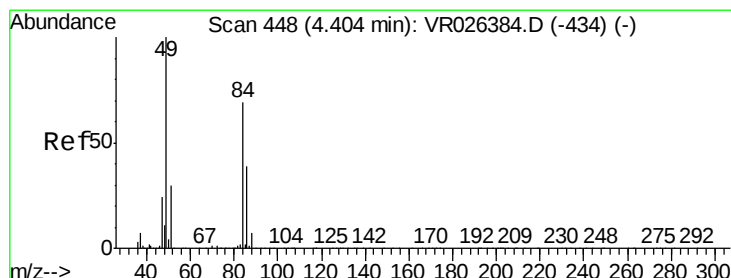
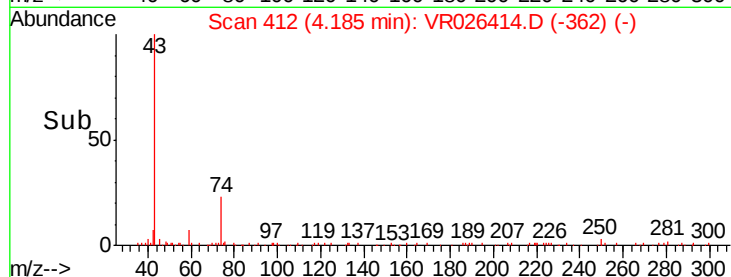
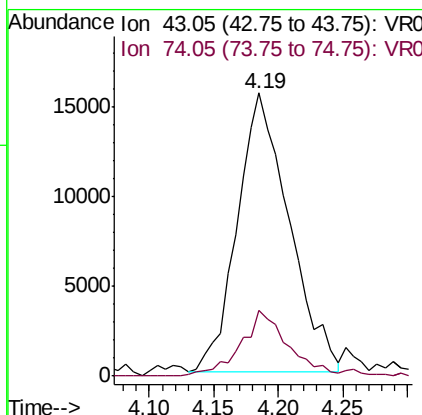
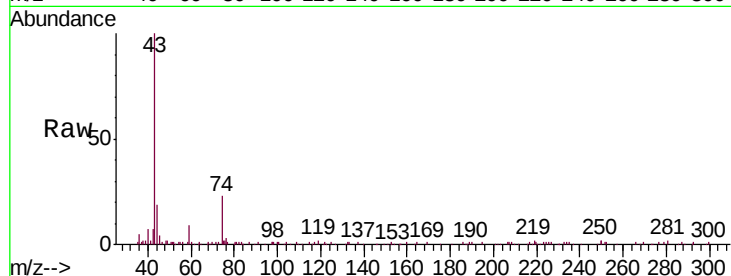




#15  
Methyl Acetate  
Concen: 4.433 ug/L  
RT: 4.19 min Scan# 412  
Delta R.T. 0.01 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

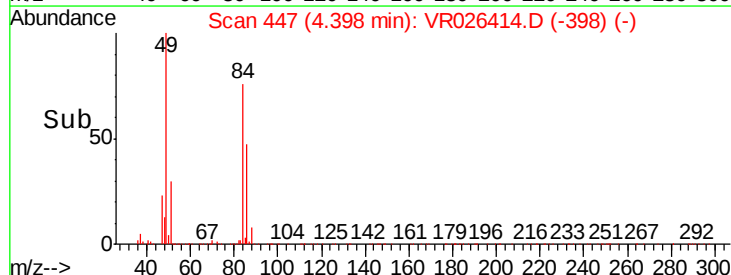
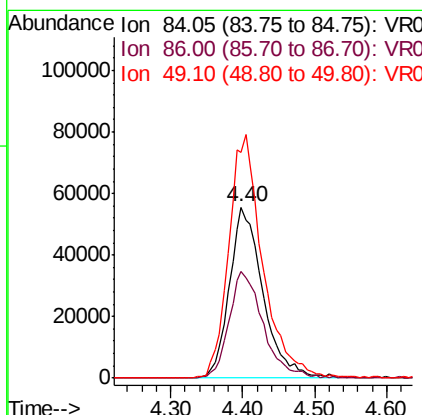
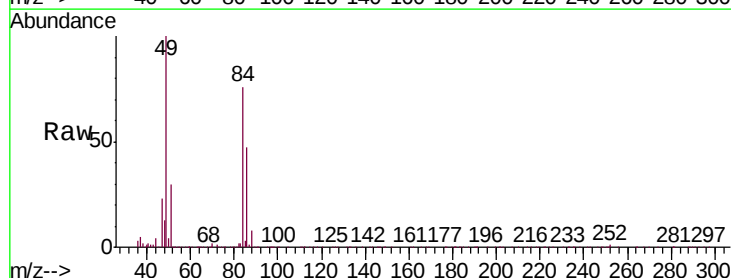
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

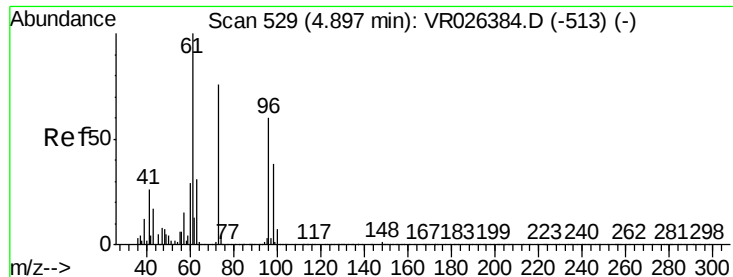
Tgt Ion: 43 Resp: 43082  
Ion Ratio Lower Upper  
43 100  
74 21.3 16.6 25.0



#16  
Methylene chloride  
Concen: 4.384 ug/L  
RT: 4.40 min Scan# 447  
Delta R.T. 0.00 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

Tgt Ion: 84 Resp: 178937  
Ion Ratio Lower Upper  
84 100  
86 62.5 42.1 78.3  
49 132.0 93.8 174.2



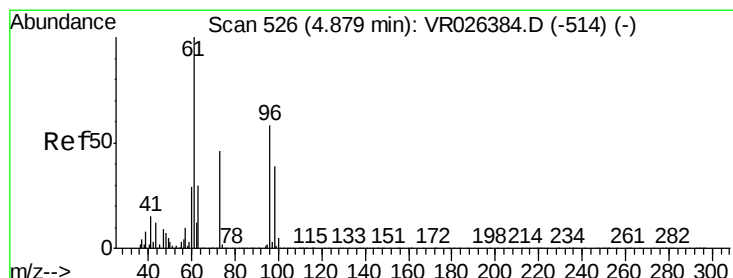
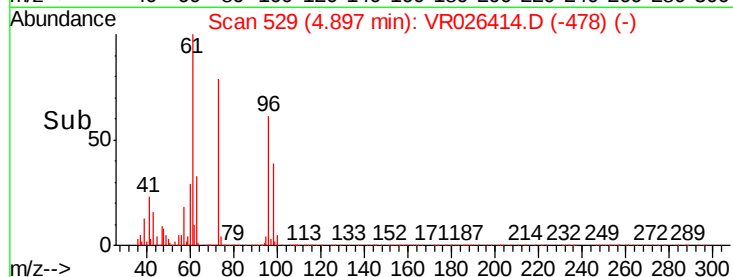
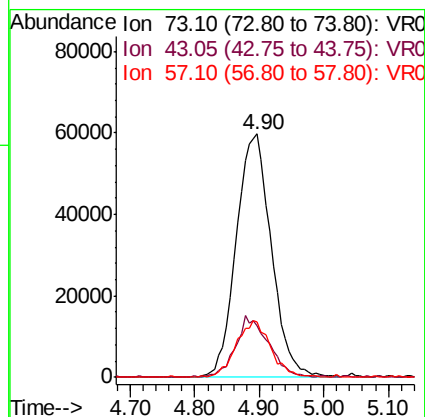
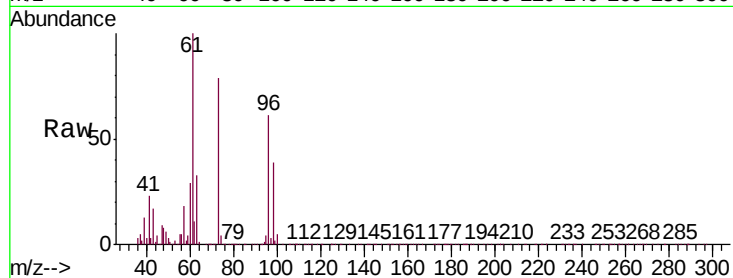


#17

Methyl tert-butyl Ether  
Concen: 5.152 ug/L  
RT: 4.90 min Scan# 529  
Delta R.T. 0.01 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

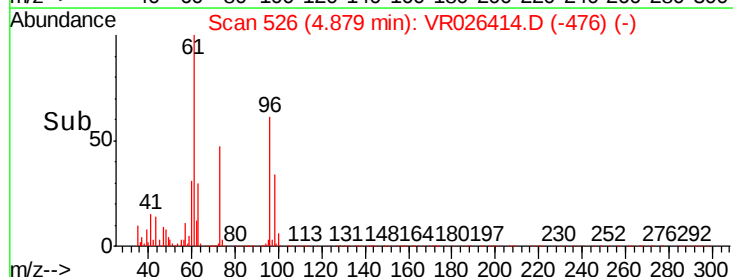
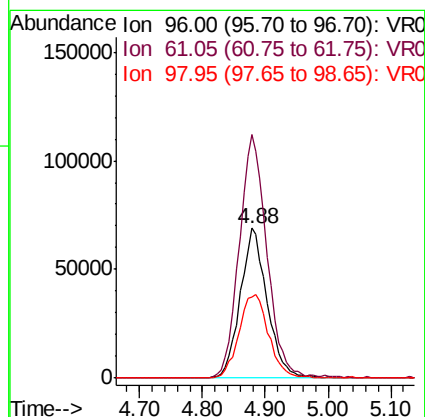
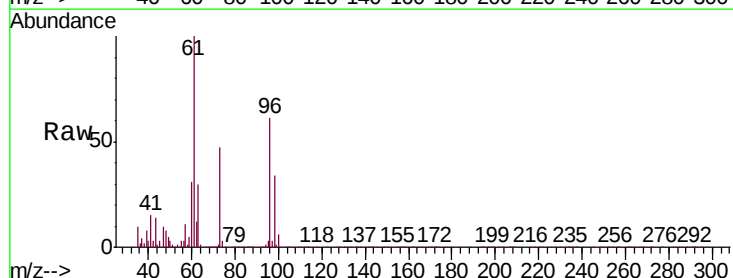
Tgt Ion: 73 Resp: 225152  
Ion Ratio Lower Upper  
73 100  
43 23.0 19.4 29.2  
57 23.0 19.4 29.0

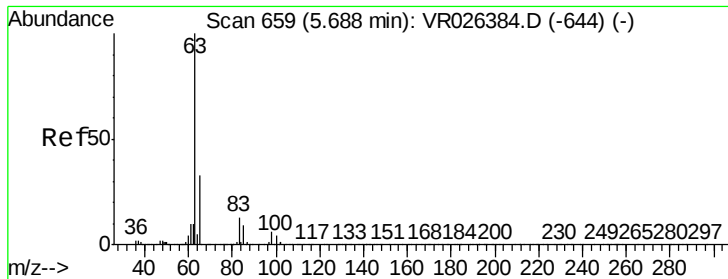


#18

trans-1,2-Dichloroethene  
Concen: 4.797 ug/L  
RT: 4.88 min Scan# 526  
Delta R.T. 0.01 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

Tgt Ion: 96 Resp: 204382  
Ion Ratio Lower Upper  
96 100  
61 162.8 109.4 203.2  
98 54.6 39.7 73.7

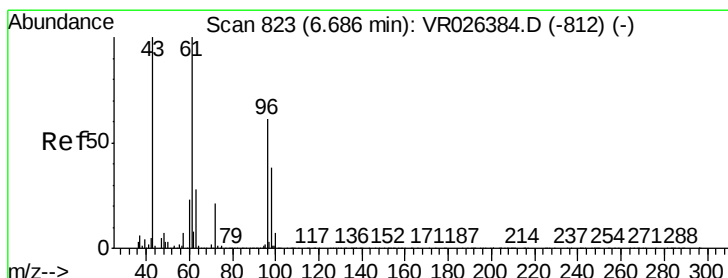
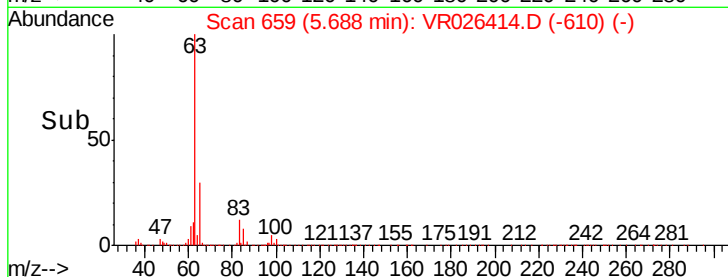
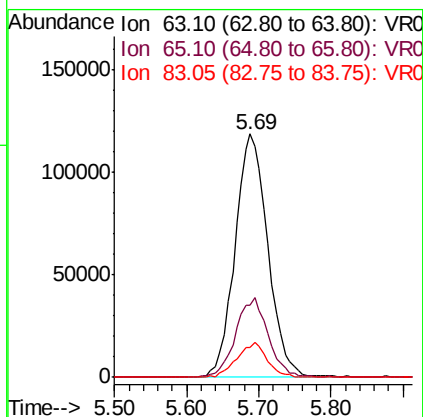
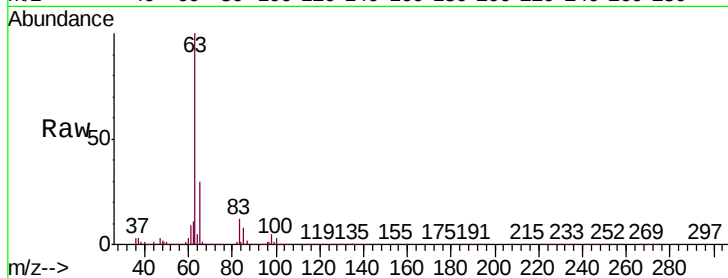




#19  
 1,1-Dichloroethane  
 Concen: 4.782 ug/L  
 RT: 5.69 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

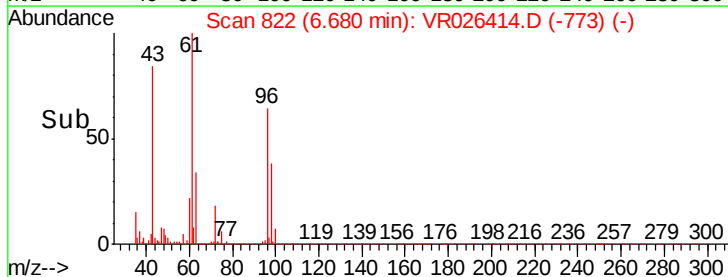
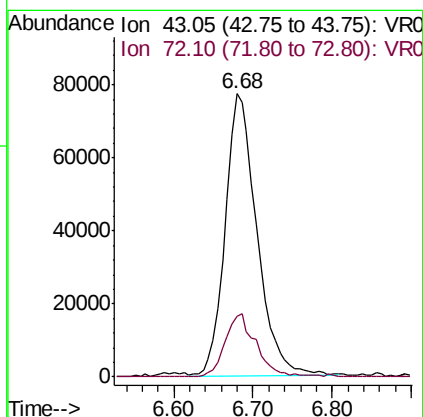
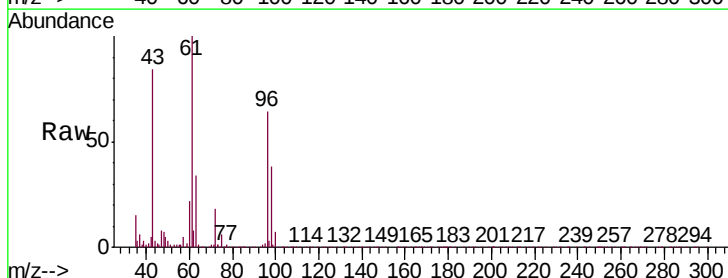
Instrument :  
 MSVOA\_R  
 ClientSampleID :  
 VSTD00593

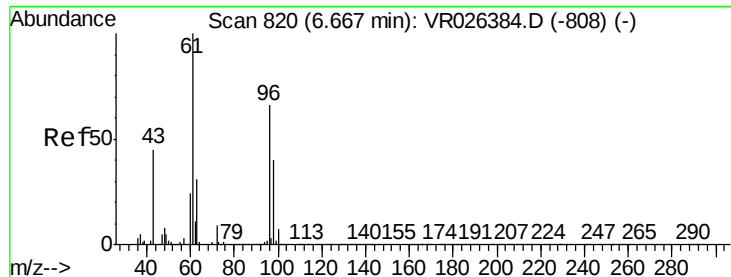
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 373260 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 29.8  | 23.6  | 43.8   |
| 83       | 12.0  | 8.8   | 16.4   |



#21  
 2-Butanone  
 Concen: 50.249 ug/L  
 RT: 6.68 min Scan# 822  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 216264 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 21.6  | 10.8  | 32.4   |





#22

cis-1,2-Dichloroethene

Concen: 4.972 ug/L

RT: 6.67 min Scan# 820

Delta R.T. -0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampled :

VSTD00593

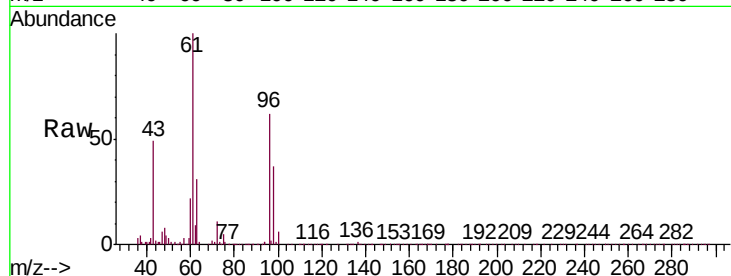
Tgt Ion: 96 Resp: 177858

Ion Ratio Lower Upper

96 100

61 161.6 100.8 187.2

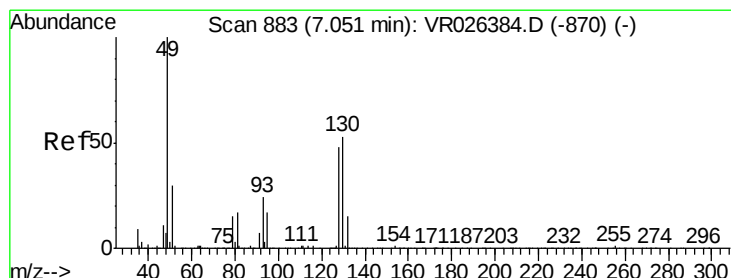
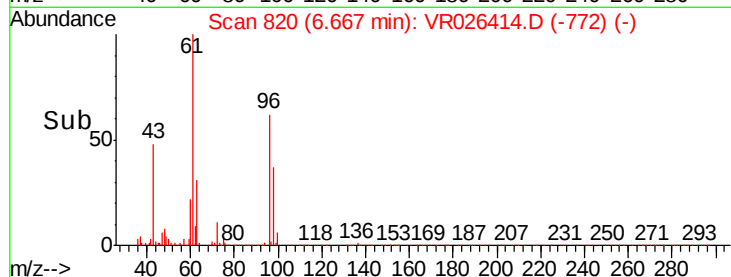
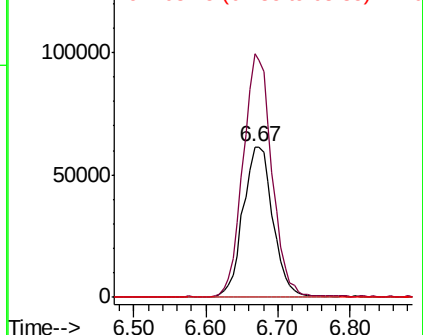
68 0.1 0.1 0.1



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 68.15 (67.85 to 68.85): VR0



#23

Bromochloromethane

Concen: 4.575 ug/L

RT: 7.04 min Scan# 882

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Tgt Ion: 128 Resp: 50700

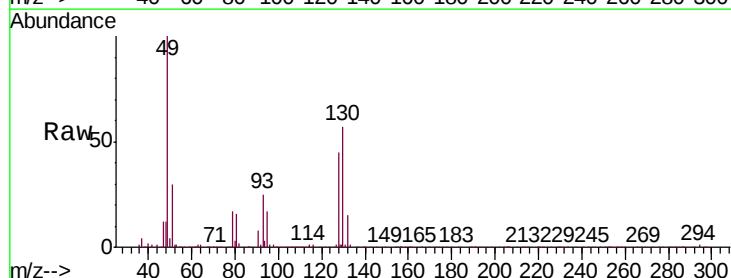
Ion Ratio Lower Upper

128 100

49 221.8 161.6 300.0

130 127.5 92.3 171.5

51 66.0 56.3 84.5

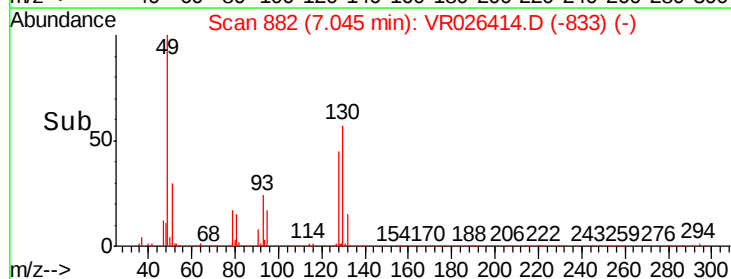
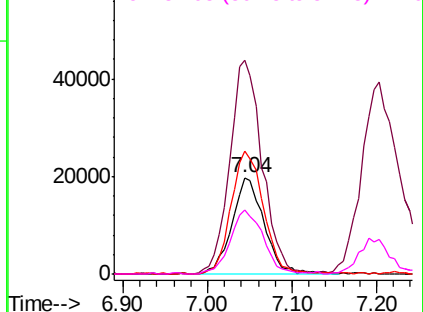


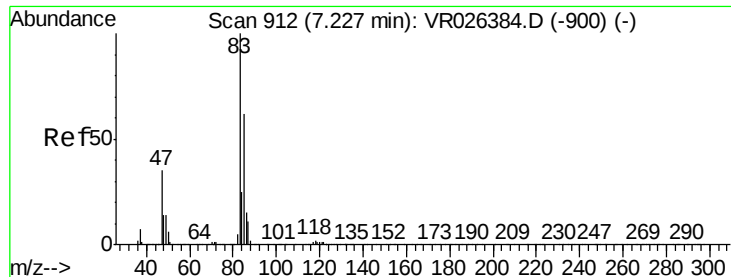
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VR0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VR0





#25

Chloroform

Concen: 4.847 ug/L

RT: 7.23 min Scan# 912

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

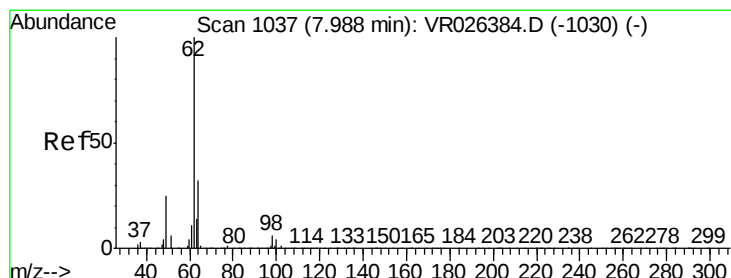
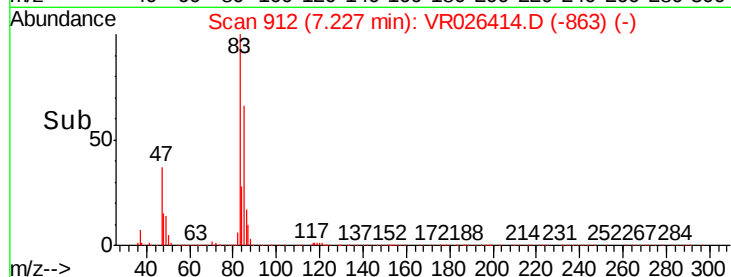
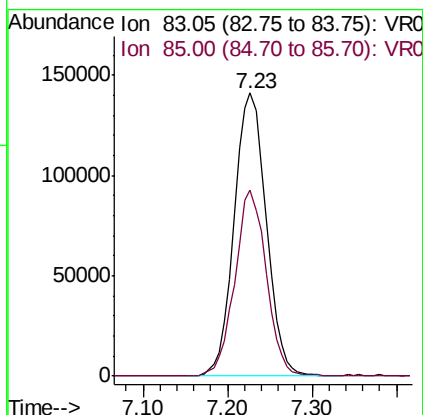
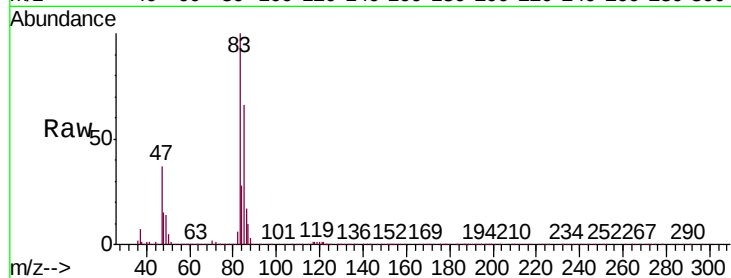
VSTD00593

Tgt Ion: 83 Resp: 362707

Ion Ratio Lower Upper

83 100

85 65.9 48.6 90.2



#27

1,2-Dichloroethane

Concen: 4.829 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VR026414.D

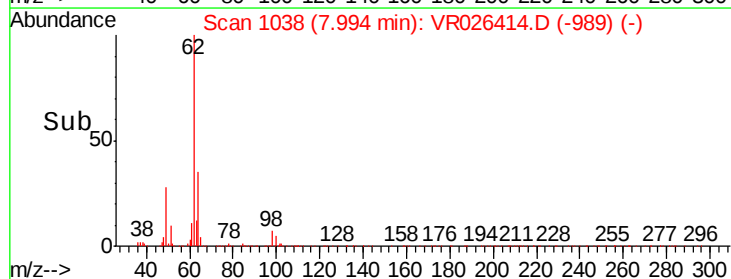
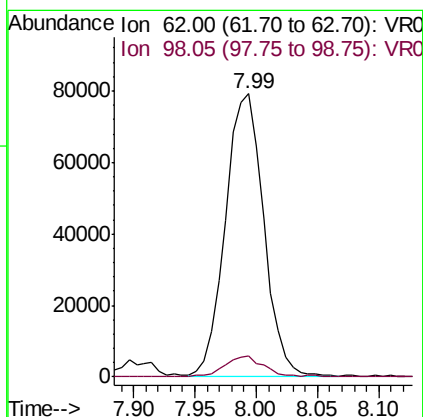
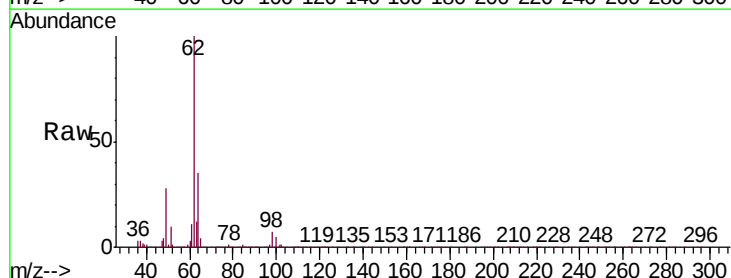
Acq: 28 Feb 2019 12:11

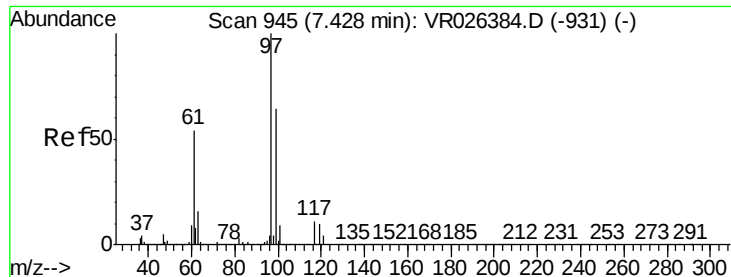
Tgt Ion: 62 Resp: 171004

Ion Ratio Lower Upper

62 100

98 7.2 5.7 8.5





#29

1,1,1-Trichloroethane

Concen: 5.168 ug/L

RT: 7.43 min Scan# 945

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

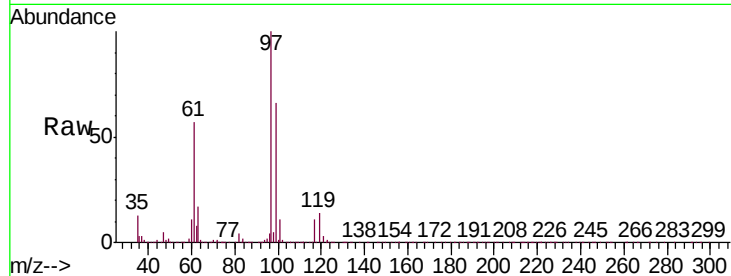
Tgt Ion: 97 Resp: 322213

Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

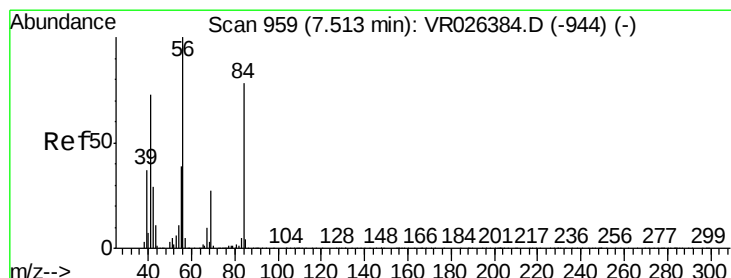
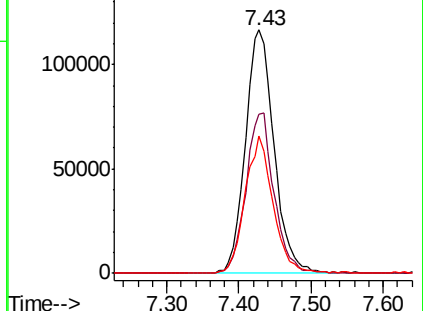
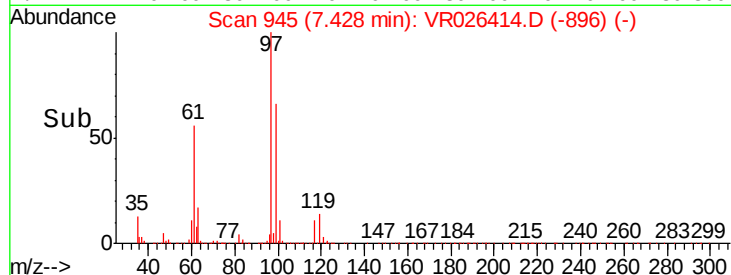
61 54.6 41.8 62.6



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: 5.620 ug/L

RT: 7.51 min Scan# 958

Delta R.T. -0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

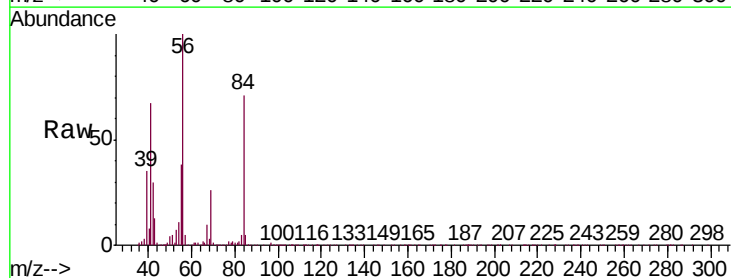
Tgt Ion: 56 Resp: 335069

Ion Ratio Lower Upper

56 100

69 28.5 22.6 34.0

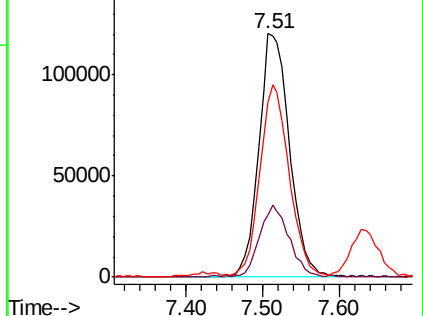
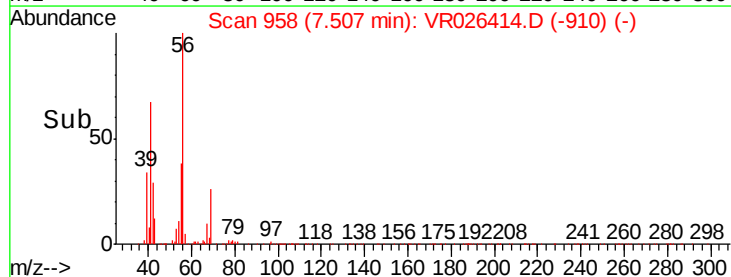
84 75.7 58.2 87.2

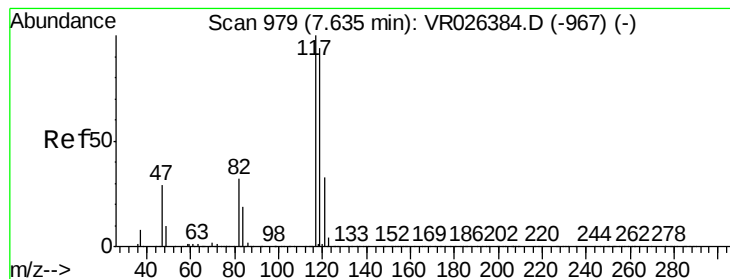


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 5.359 ug/L

RT: 7.63 min Scan# 979

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

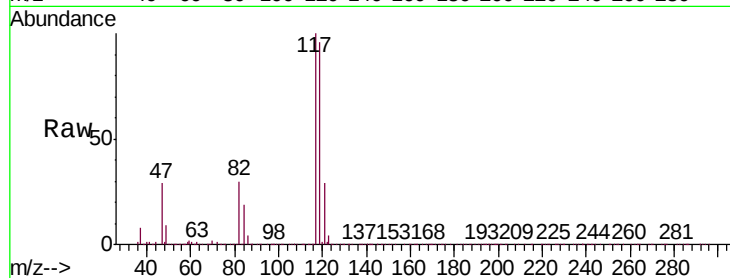
VSTD00593

Tgt Ion:117 Resp: 310599

Ion Ratio Lower Upper

117 100

119 96.3 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

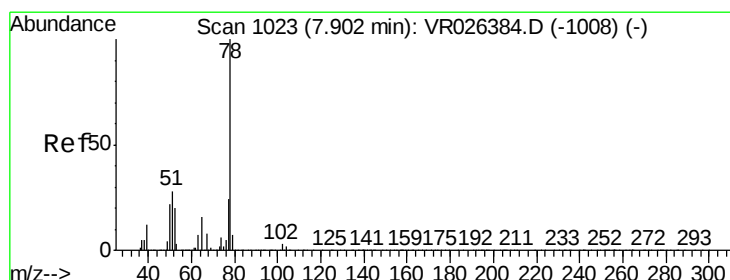
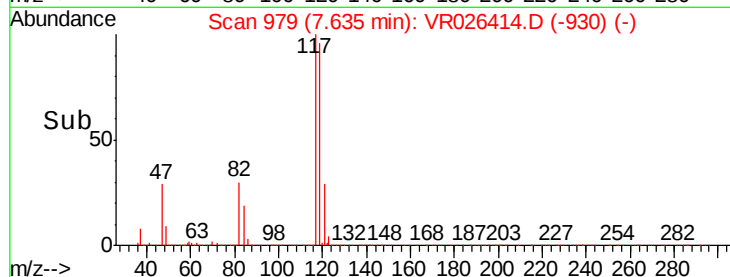
7.63

100000

50000

0

Time-->



#33

Benzene

Concen: 4.861 ug/L

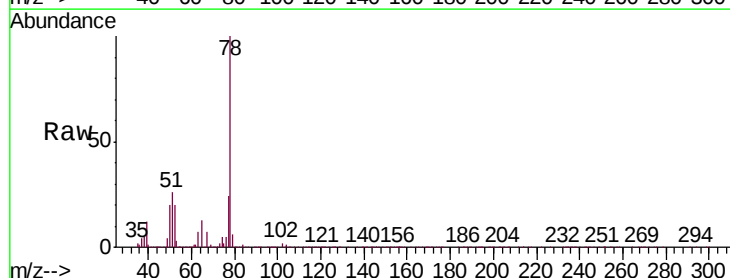
RT: 7.90 min Scan# 1023

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Tgt Ion: 78 Resp: 803690



Abundance Ion 78.10 (77.80 to 78.80): VR0

7.90

400000

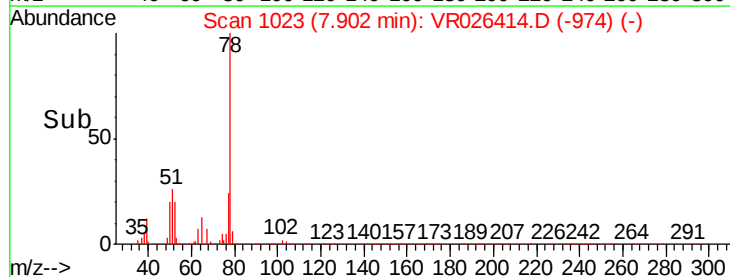
300000

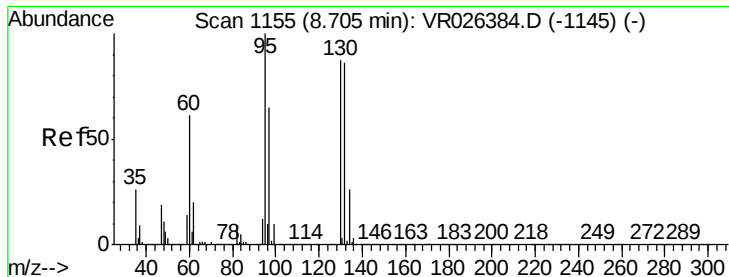
200000

100000

0

Time-->





#34

Trichloroethene

Concen: 4.991 ug/L

RT: 8.71 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

Tgt Ion: 95 Resp: 207584

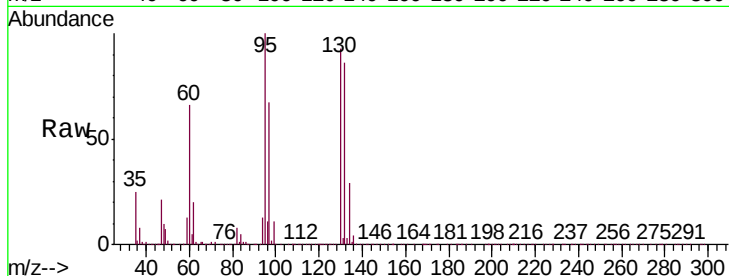
Ion Ratio Lower Upper

95 100

97 66.8 43.5 80.7

132 85.8 58.6 108.8

130 93.4 59.4 110.2

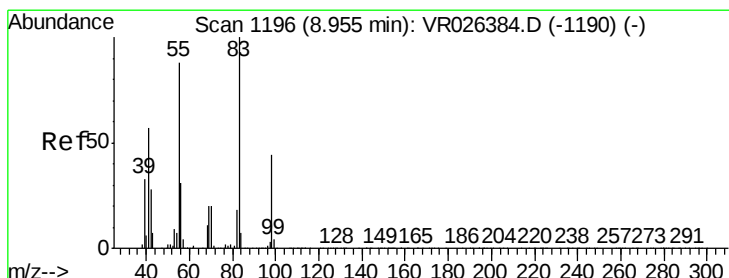
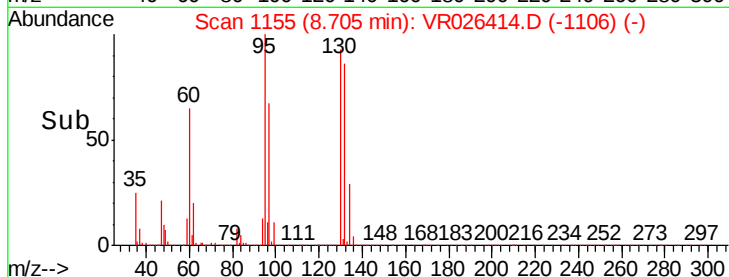
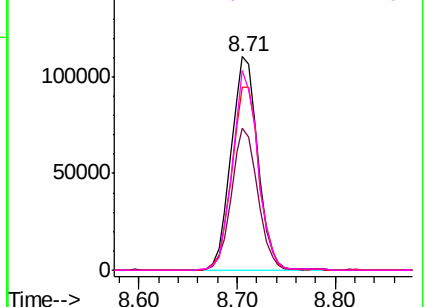


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.520 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

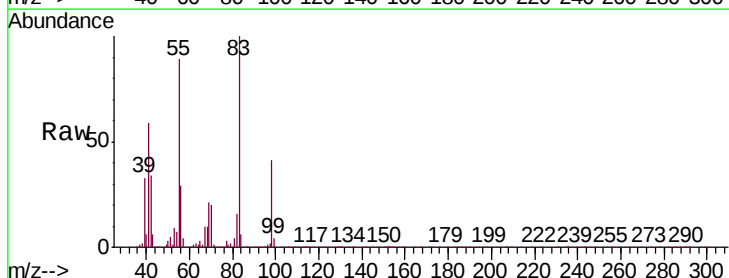
Tgt Ion: 83 Resp: 325644

Ion Ratio Lower Upper

83 100

55 92.5 72.2 108.2

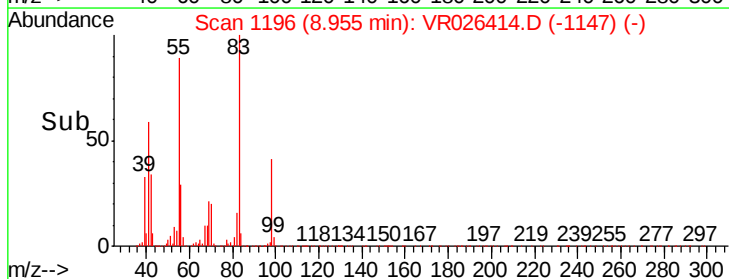
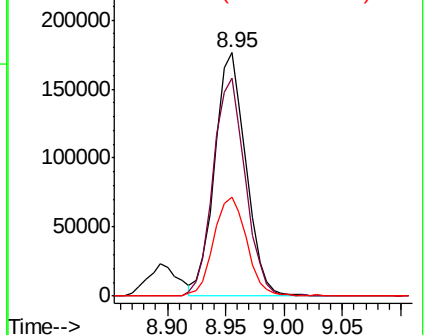
98 42.5 35.0 52.4

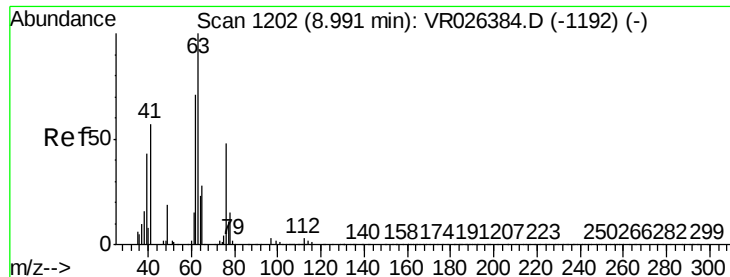


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0

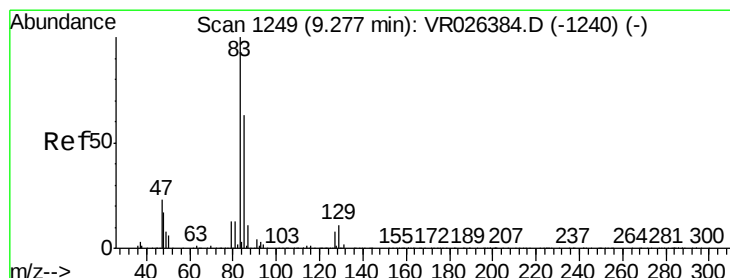
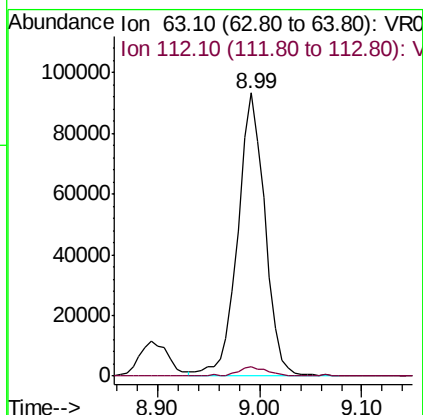
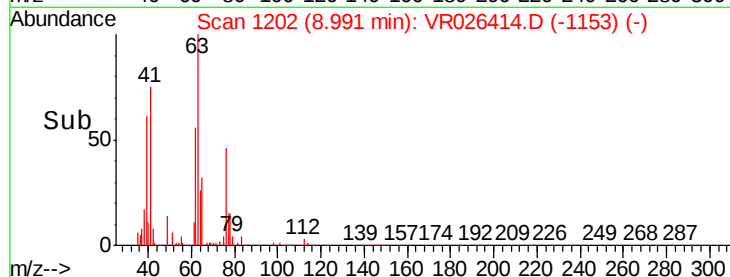
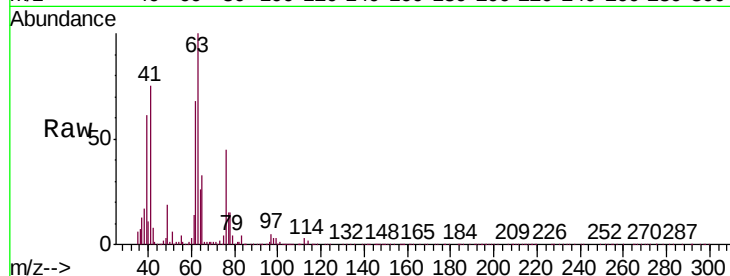




#37  
 1,2-Dichloropropane  
 Concen: 4.900 ug/L  
 RT: 8.99 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

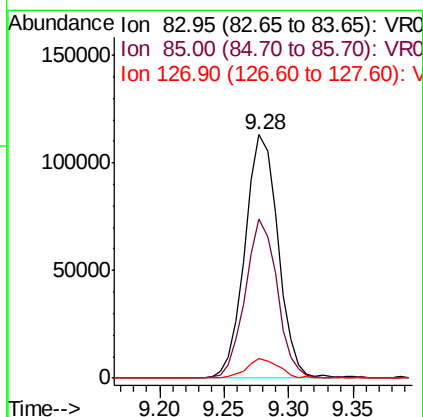
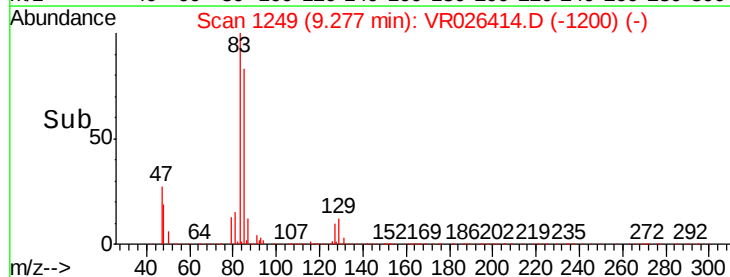
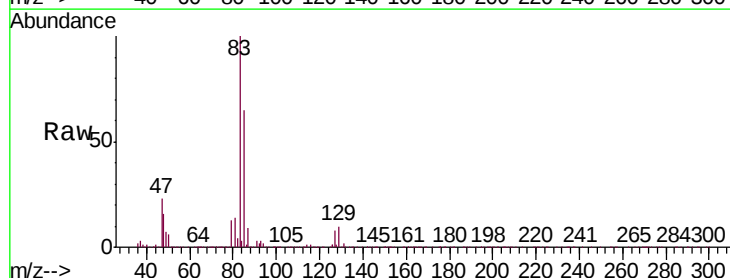
Instrument :  
 MSVOA\_R  
 ClientSampled :  
 VSTD00593

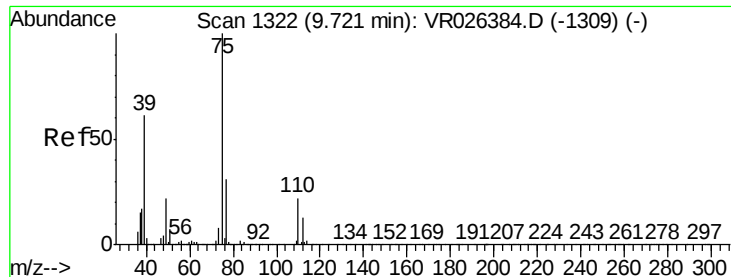
Tgt Ion: 63 Resp: 172057  
 Ion Ratio Lower Upper  
 63 100  
 112 3.5 3.6 5.4#



#38  
 Bromodichloromethane  
 Concen: 4.977 ug/L  
 RT: 9.28 min Scan# 1249  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

Tgt Ion: 83 Resp: 200357  
 Ion Ratio Lower Upper  
 83 100  
 85 65.4 41.0 76.2  
 127 7.9 5.5 8.3

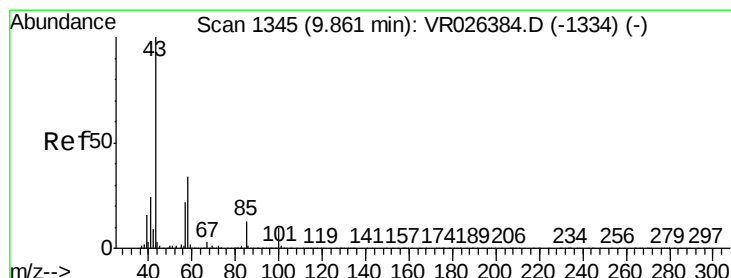
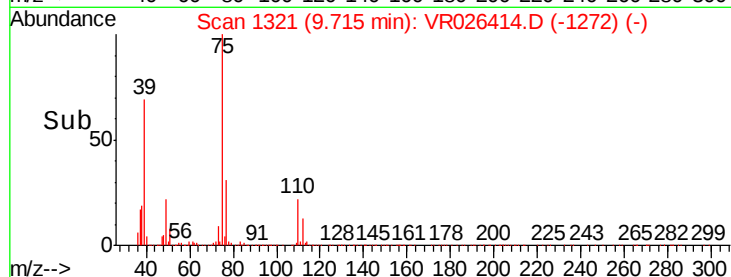
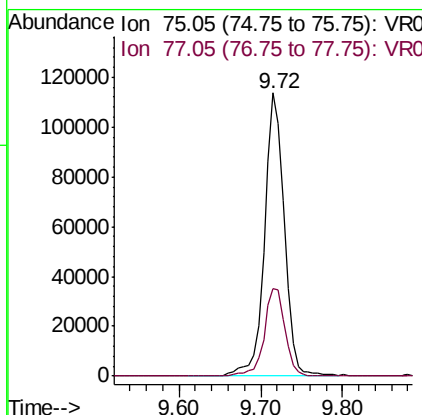
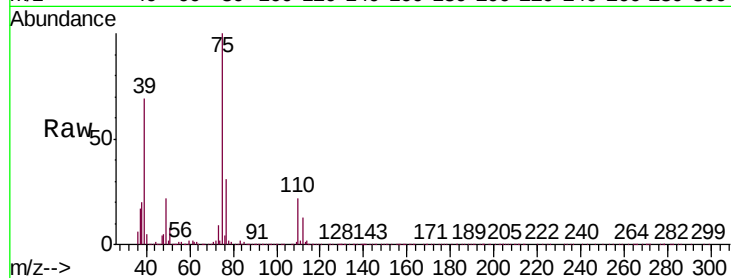




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.996 ug/L  
 RT: 9.72 min Scan# 1321  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

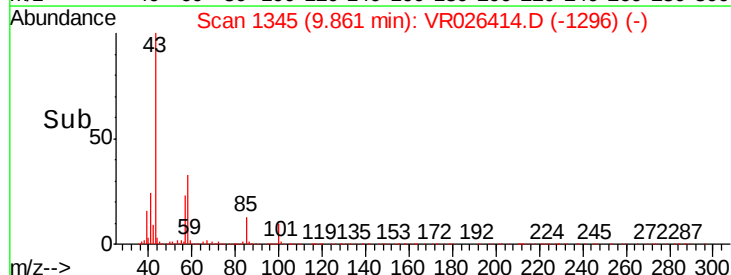
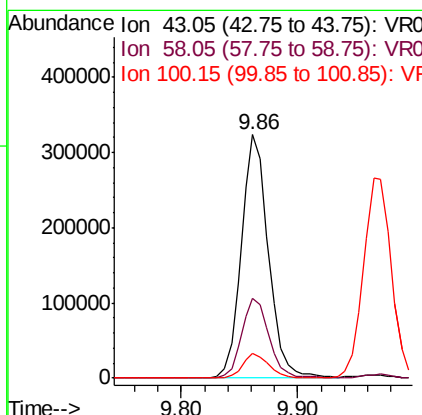
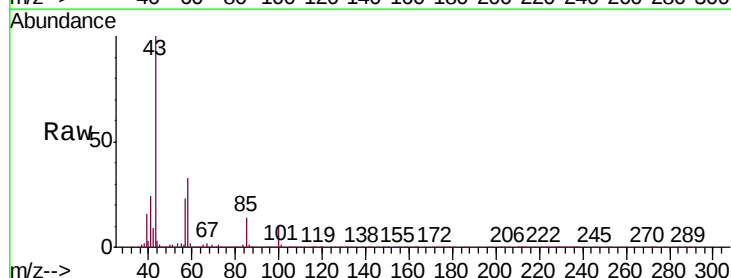
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00593

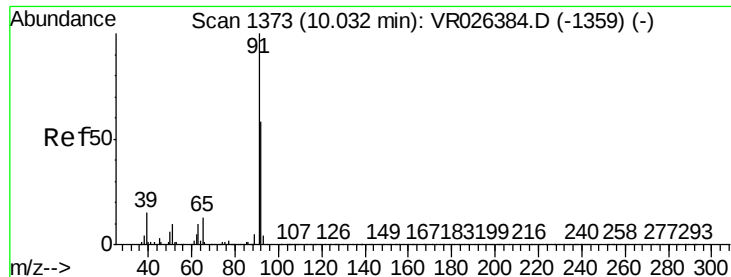
Tgt Ion: 75 Resp: 191577  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 21.3 39.6



#40  
 4-Methyl-2-pentanone  
 Concen: 54.475 ug/L  
 RT: 9.86 min Scan# 1345  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

Tgt Ion: 43 Resp: 522971  
 Ion Ratio Lower Upper  
 43 100  
 58 33.2 26.7 40.1  
 100 10.1 8.4 12.6





#42

Toluene

Concen: 5.079 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

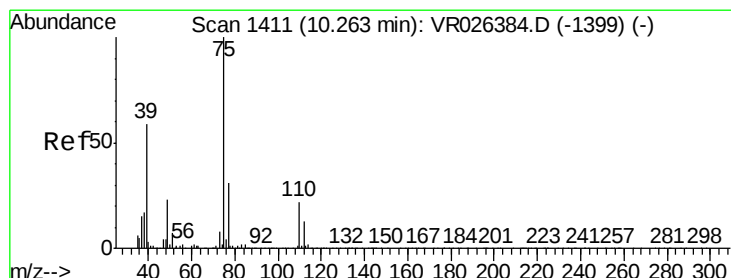
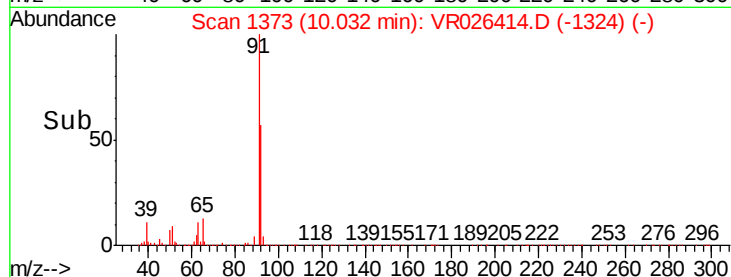
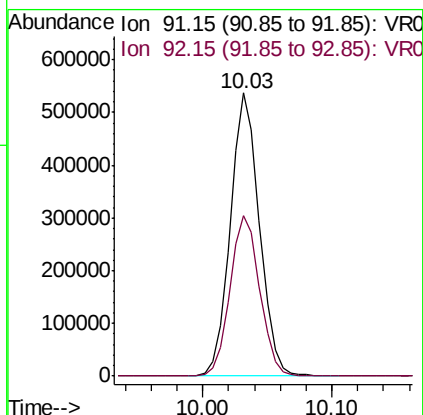
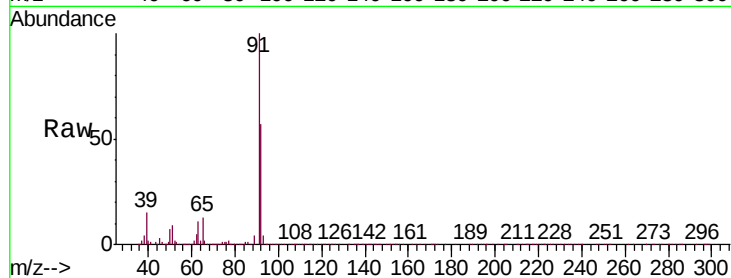
VSTD00593

Tgt Ion: 91 Resp: 843442

Ion Ratio Lower Upper

91 100

92 56.6 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 4.984 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026414.D

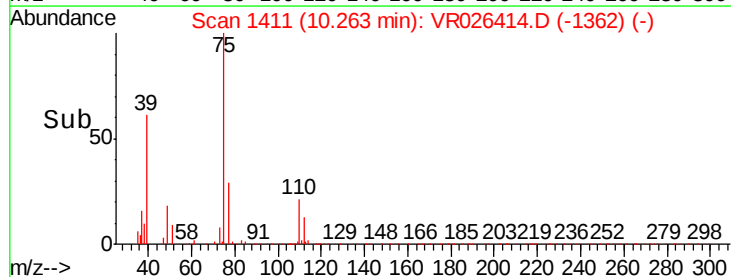
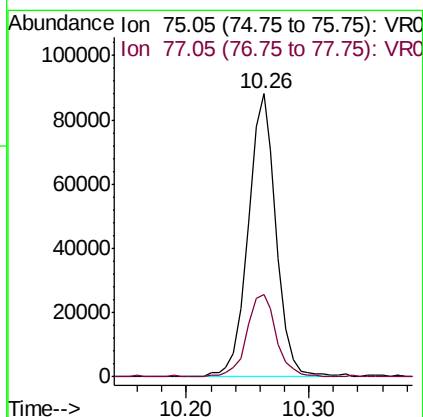
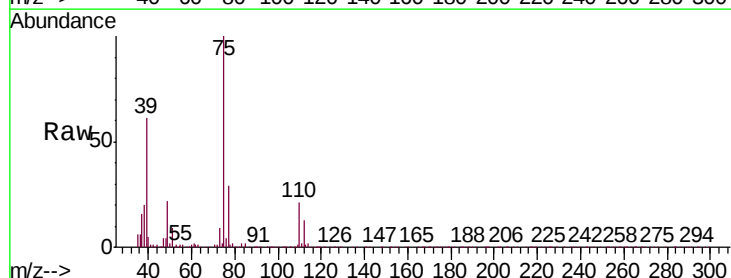
Acq: 28 Feb 2019 12:11

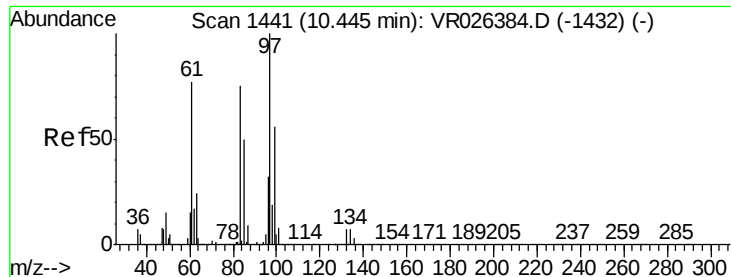
Tgt Ion: 75 Resp: 139346

Ion Ratio Lower Upper

75 100

77 29.2 23.9 44.3





#45

1,1,2-Trichloroethane

Concen: 4.659 ug/L

RT: 10.44 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

Tgt Ion: 97 Resp: 67588

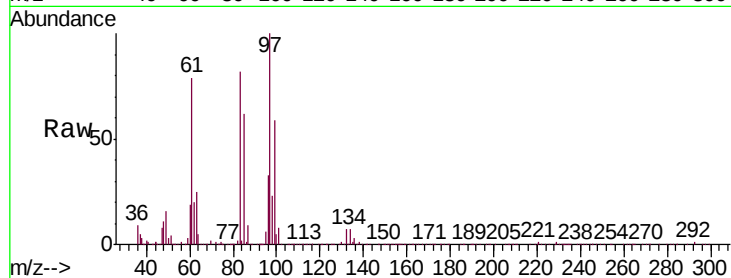
Ion Ratio Lower Upper

97 100

99 59.2 38.1 70.7

83 82.1 59.6 110.6

85 62.4 43.5 80.9

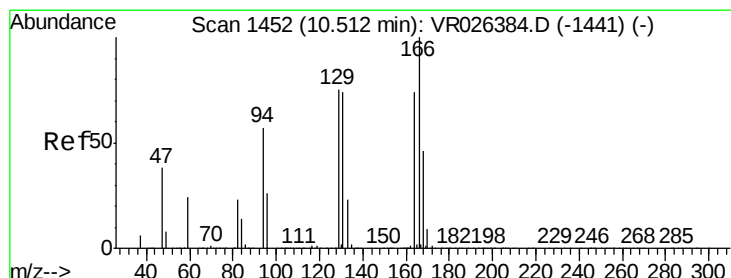
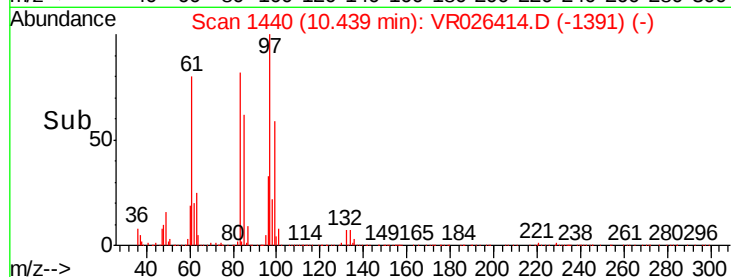
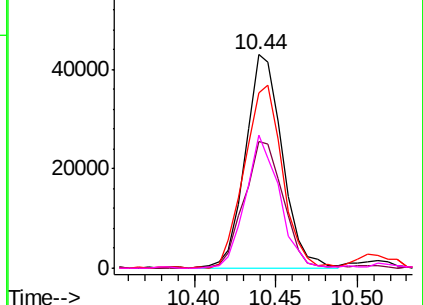


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 5.016 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Tgt Ion: 164 Resp: 151265

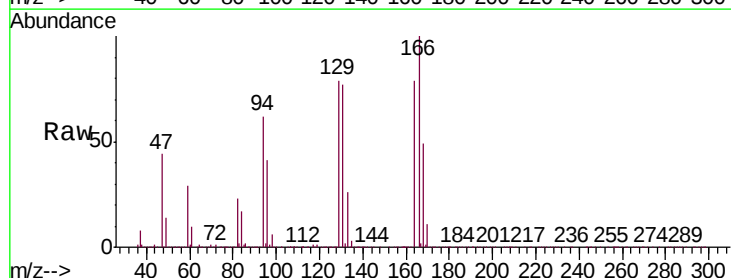
Ion Ratio Lower Upper

164 100

129 100.4 67.2 124.8

131 98.4 67.3 125.1

166 127.0 90.4 167.8

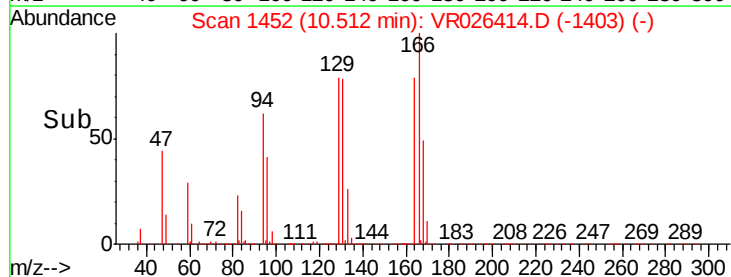
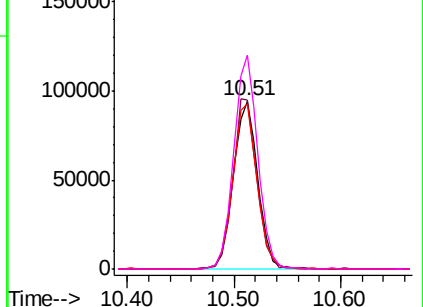


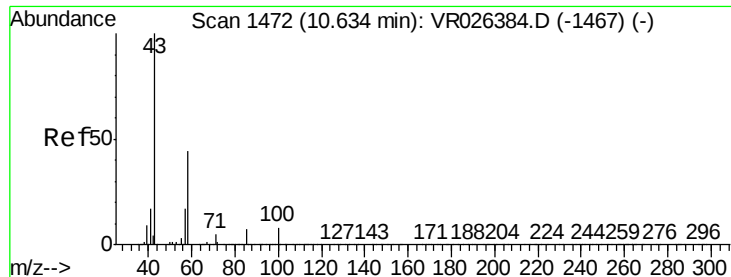
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

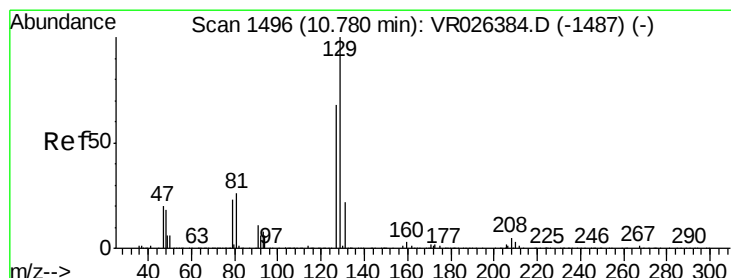
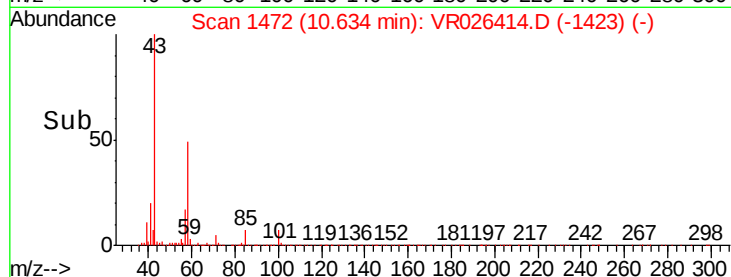
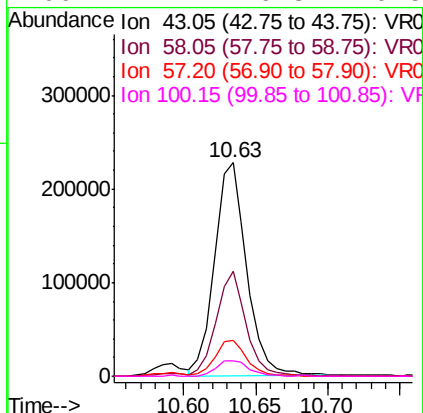
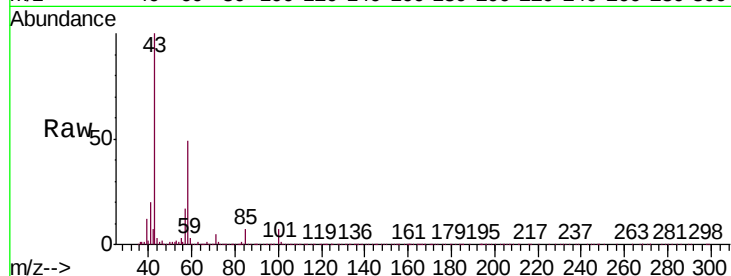




#48  
2-Hexanone  
Concen: 53.170 ug/L  
RT: 10.63 min Scan# 1472  
Delta R.T. 0.00 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

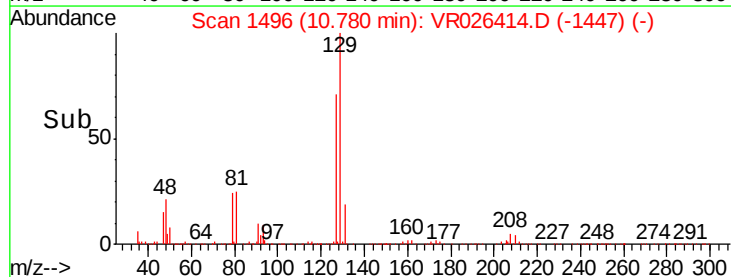
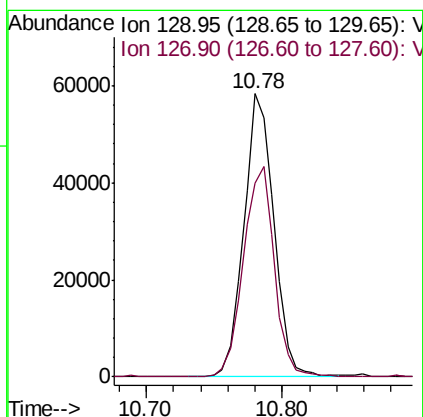
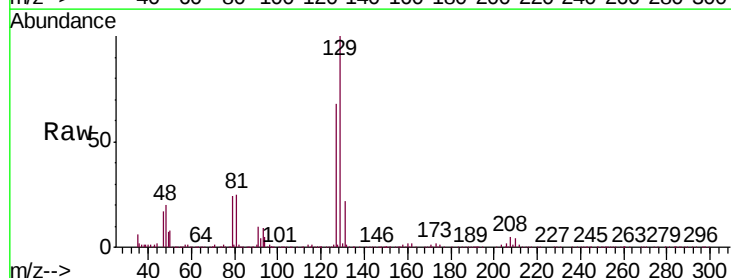
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

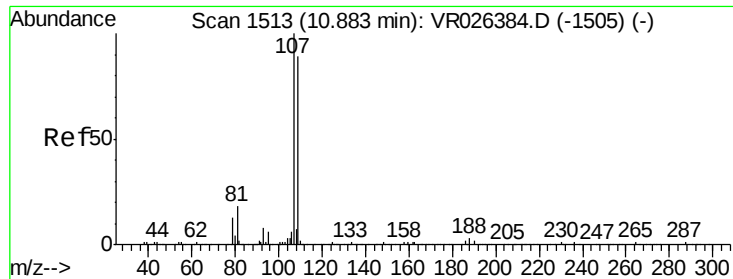
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 352709 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 47.8  | 38.4  | 57.6   |
| 57       | 16.8  | 13.2  | 19.8   |
| 100      | 7.7   | 6.3   | 9.5    |



#49  
Dibromochloromethane  
Concen: 4.978 ug/L  
RT: 10.78 min Scan# 1496  
Delta R.T. 0.00 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 89763 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 68.4  | 52.1  | 96.7  |

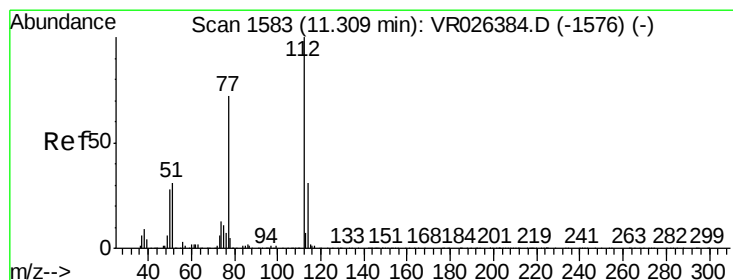
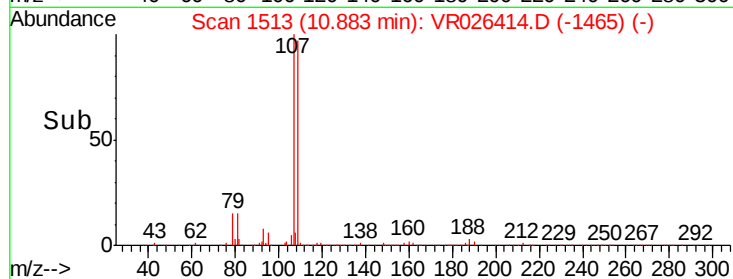
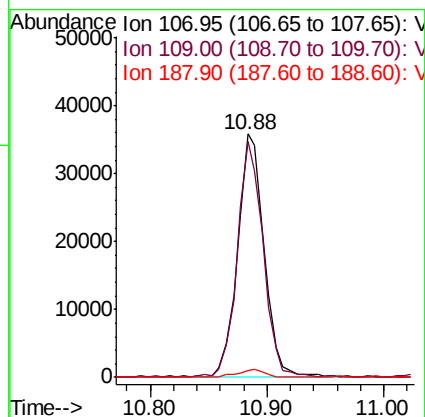
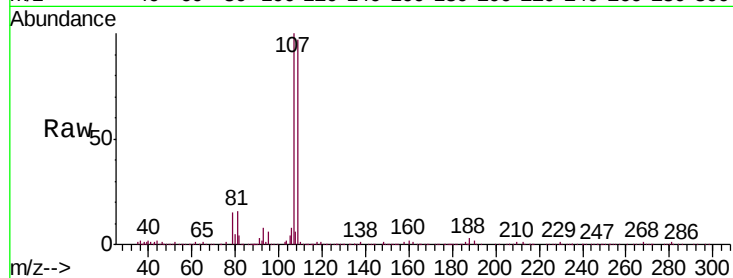




#50  
1,2-Dibromoethane  
Concen: 5.022 ug/L  
RT: 10.88 min Scan# 1513  
Delta R.T. -0.01 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

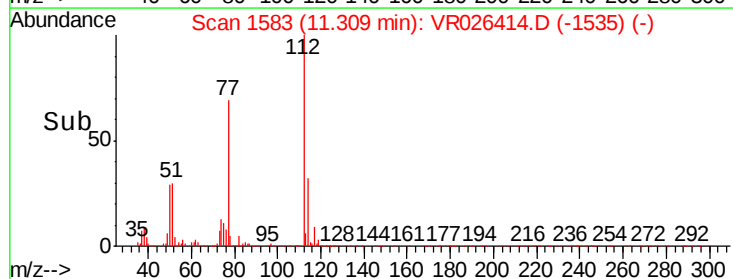
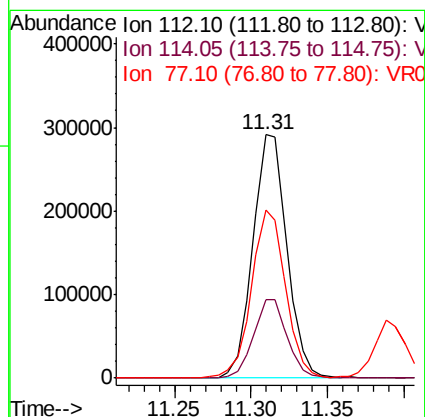
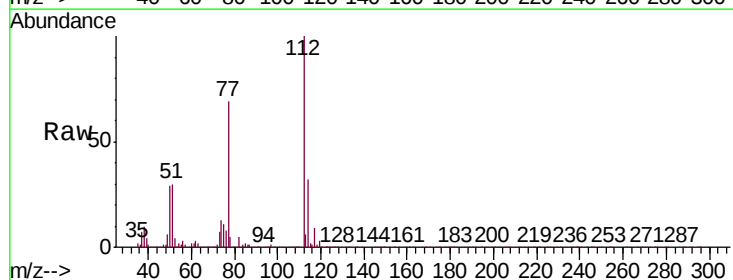
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

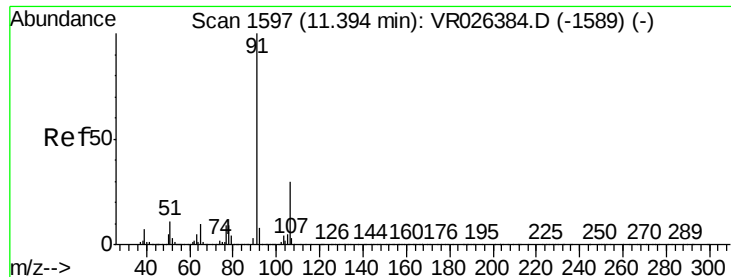
Tgt Ion:107 Resp: 56785  
Ion Ratio Lower Upper  
107 100  
109 96.9 66.4 123.4  
188 2.8 2.2 3.2



#51  
Chlorobenzene  
Concen: 4.968 ug/L  
RT: 11.31 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

Tgt Ion:112 Resp: 451101  
Ion Ratio Lower Upper  
112 100  
114 32.4 22.0 41.0  
77 69.0 55.4 83.2





#52

Ethylbenzene

Concen: 5.355 ug/L

RT: 11.39 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

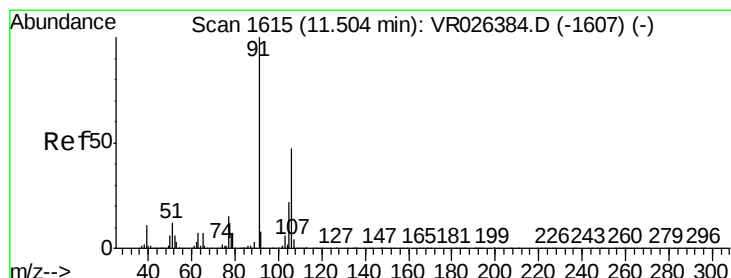
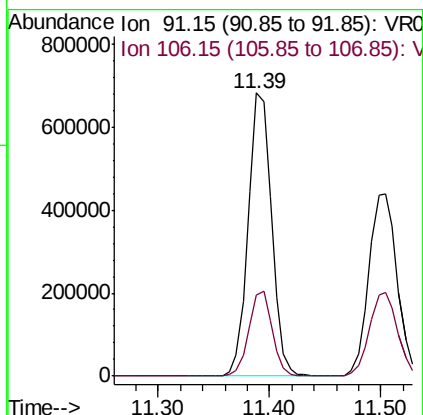
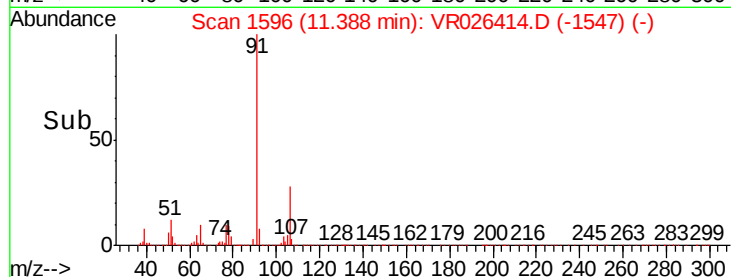
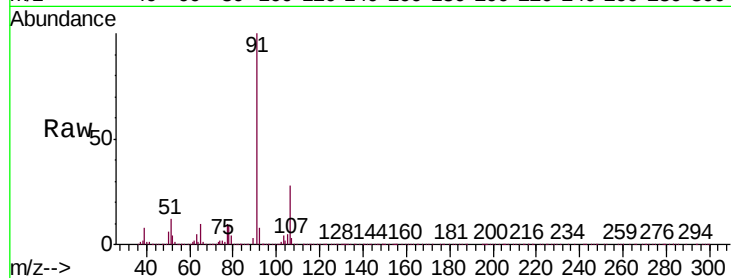
VSTD00593

Tgt Ion: 91 Resp: 999433

Ion Ratio Lower Upper

91 100

106 28.5 21.2 39.4



#53

m,p-Xylene

Concen: 5.312 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026414.D

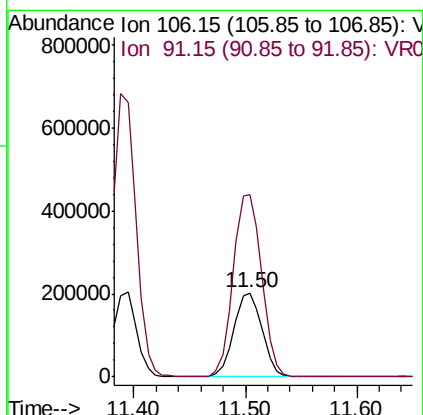
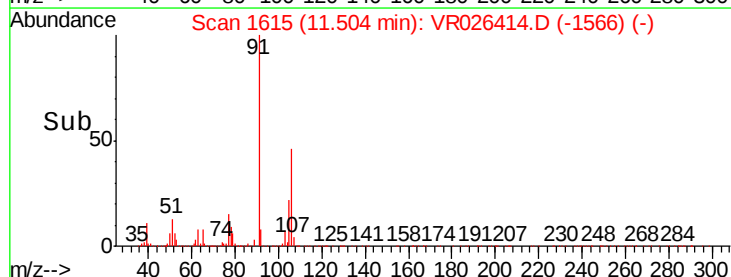
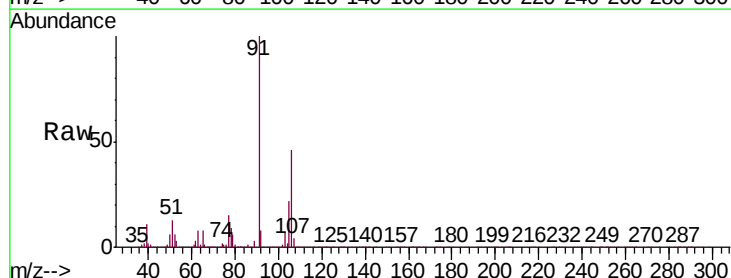
Acq: 28 Feb 2019 12:11

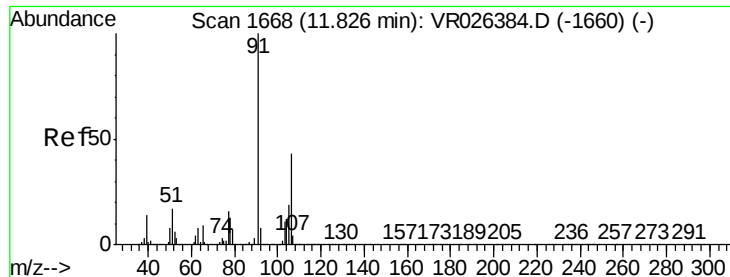
Tgt Ion: 106 Resp: 353448

Ion Ratio Lower Upper

106 100

91 216.2 153.9 285.7

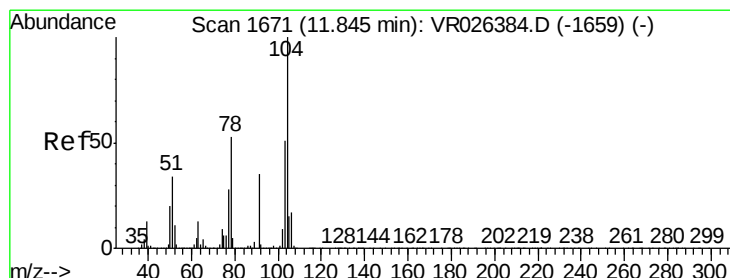
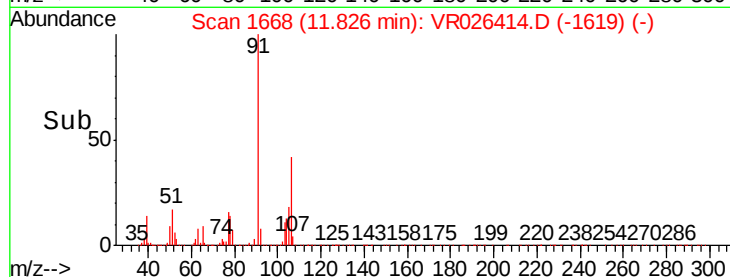
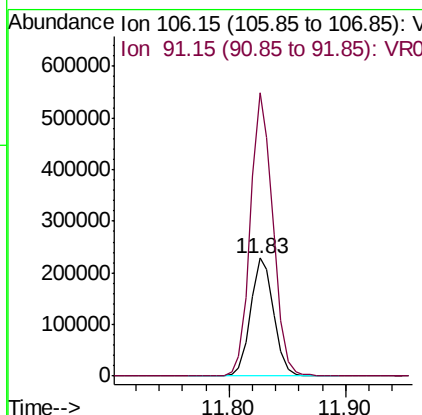
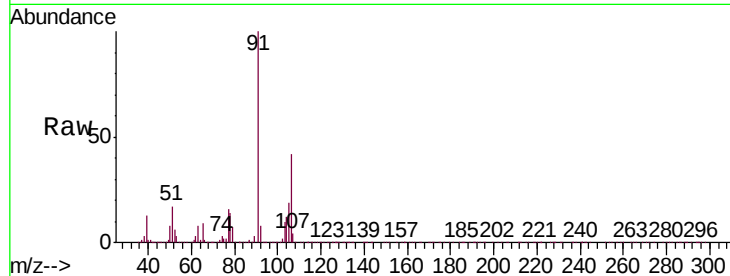




#54  
o-Xylene  
Concen: 5.442 ug/L  
RT: 11.83 min Scan# 1668  
Delta R.T. 0.00 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

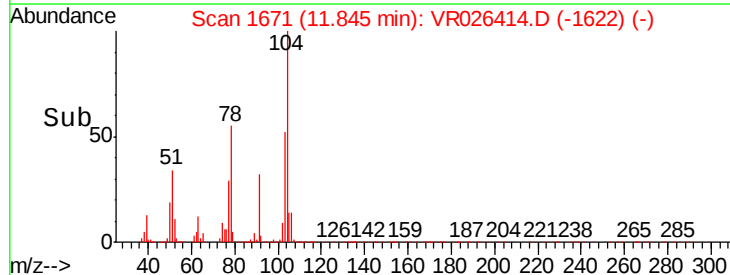
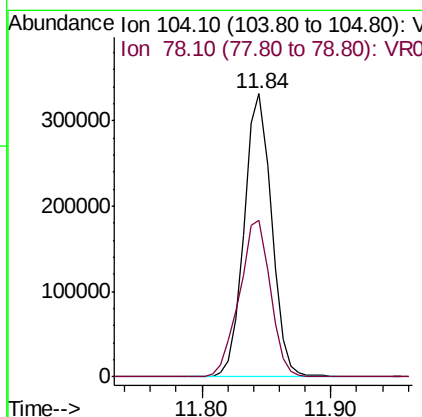
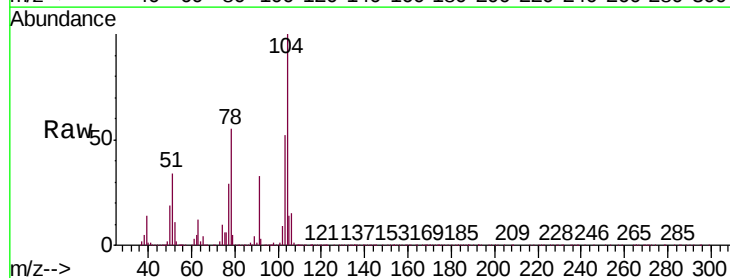
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00593

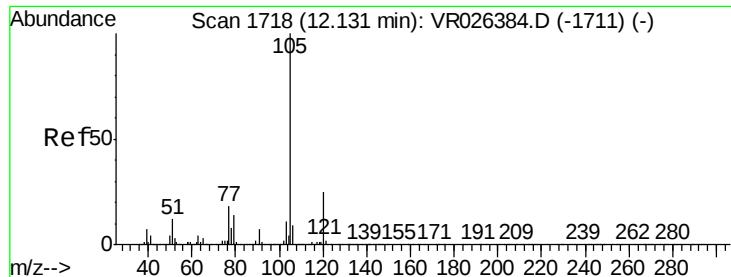
Tgt Ion:106 Resp: 316032  
Ion Ratio Lower Upper  
106 100  
91 239.4 162.5 301.9



#55  
Styrene  
Concen: 5.305 ug/L  
RT: 11.84 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VR026414.D  
Acq: 28 Feb 2019 12:11

Tgt Ion:104 Resp: 487007  
Ion Ratio Lower Upper  
104 100  
78 55.2 36.5 67.7





#56

Isopropylbenzene

Concen: 5.820 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

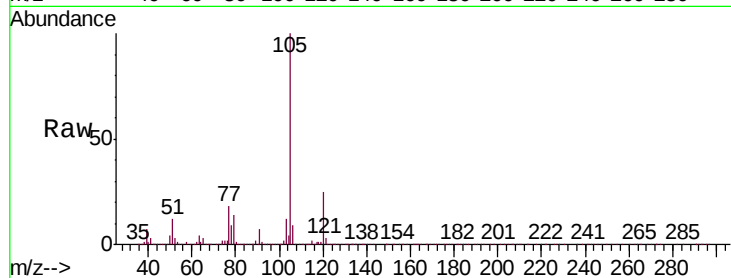
Tgt Ion: 105 Resp: 959897

Ion Ratio Lower Upper

105 100

120 24.8 20.4 30.6

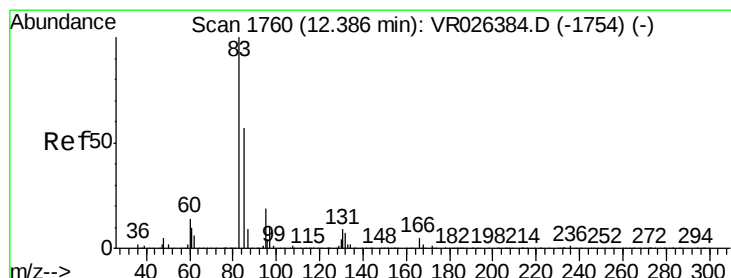
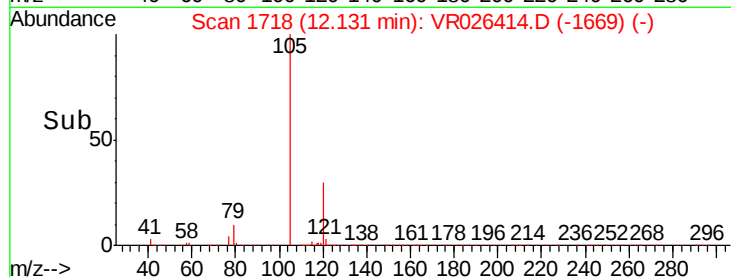
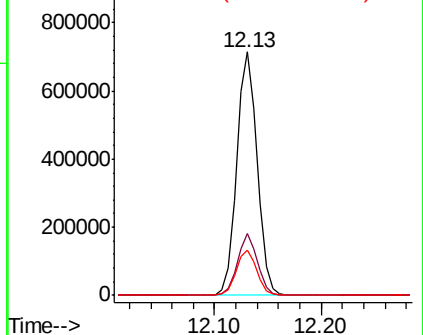
77 18.4 14.4 21.6



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: 5.046 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

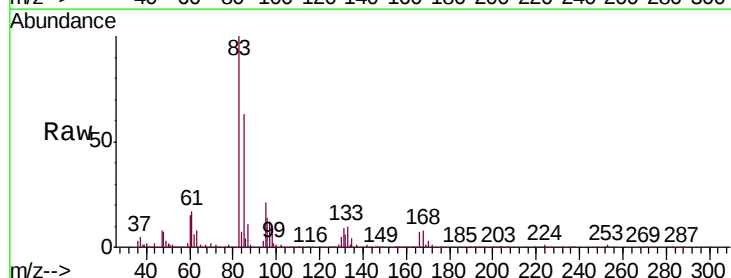
Tgt Ion: 83 Resp: 66686

Ion Ratio Lower Upper

83 100

85 62.7 46.1 85.7

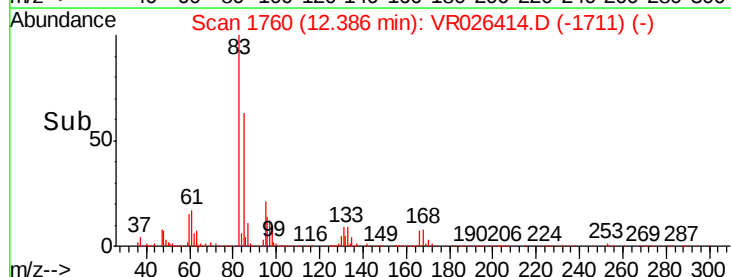
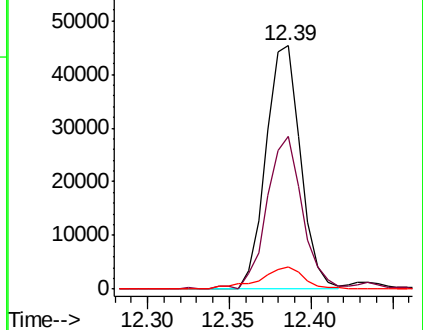
131 9.4 6.1 9.1#

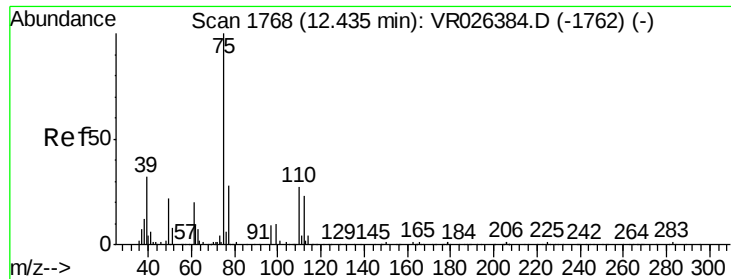


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.035 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

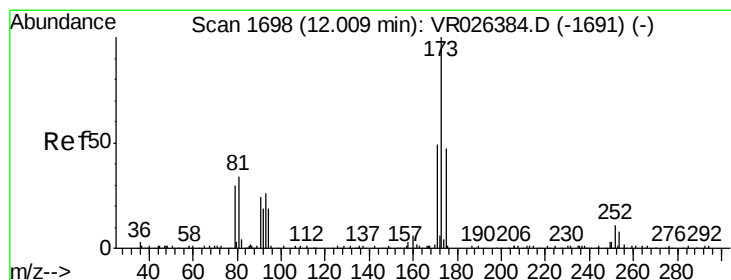
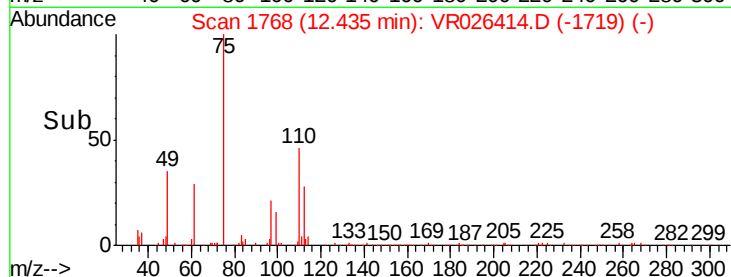
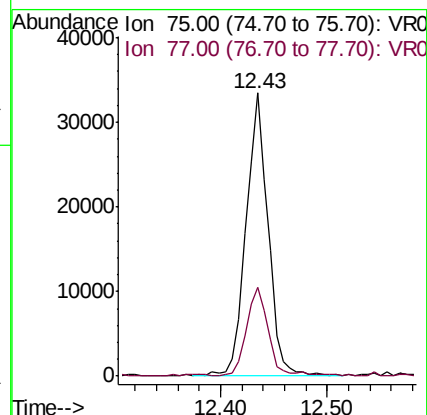
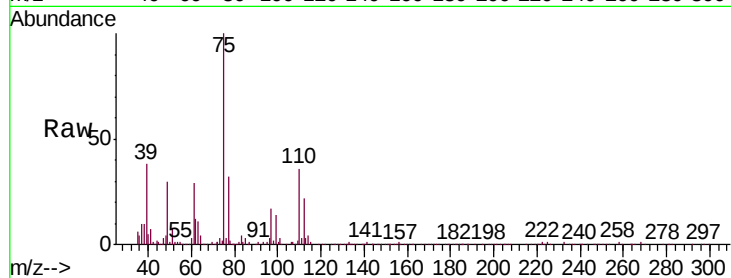
VSTD00593

Tgt Ion: 75 Resp: 48716

Ion Ratio Lower Upper

75 100

77 29.9 25.4 38.2



#61

Bromoform

Concen: 4.335 ug/L

RT: 12.00 min Scan# 1697

Delta R.T. -0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

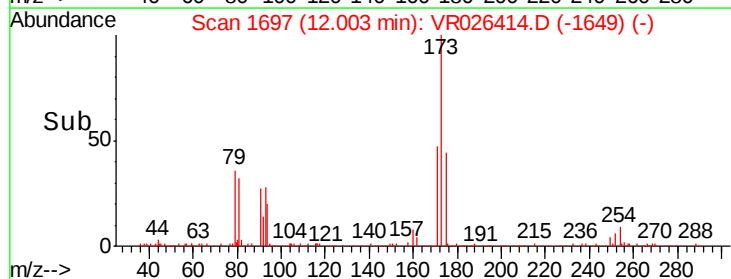
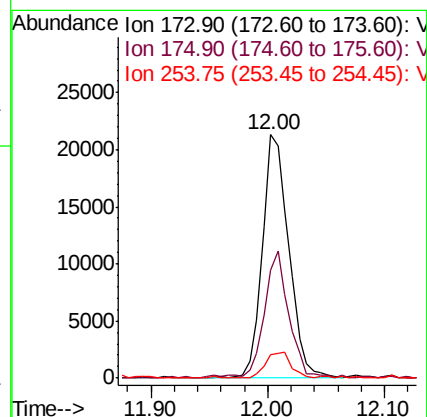
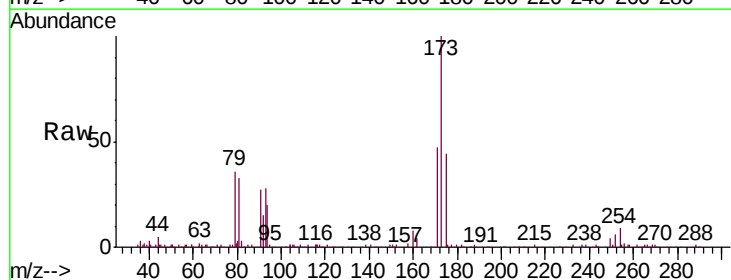
Tgt Ion: 173 Resp: 33598

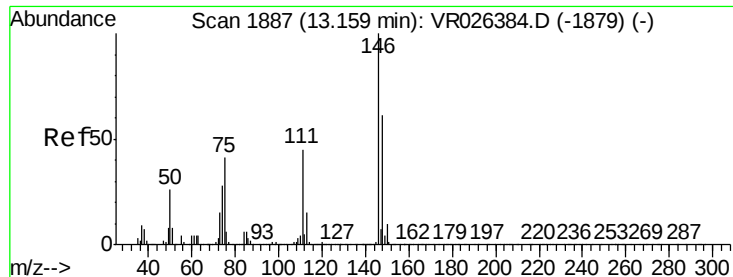
Ion Ratio Lower Upper

173 100

175 47.9 38.8 58.2

254 10.0 7.7 11.5





#62

1,3-Dichlorobenzene

Concen: 5.095 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. 0.01 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

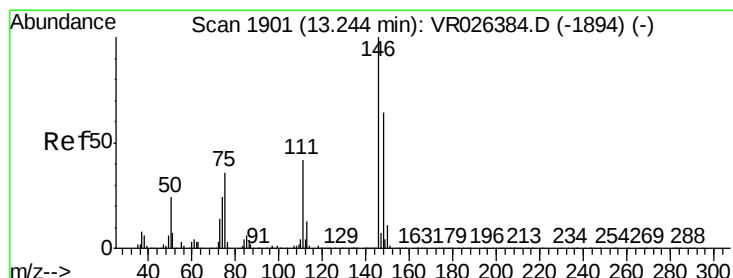
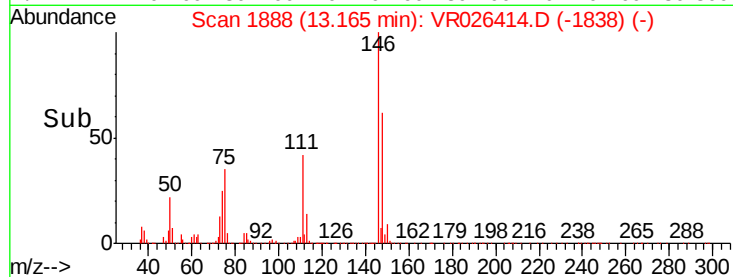
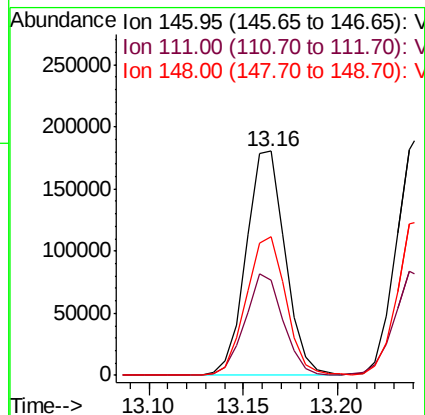
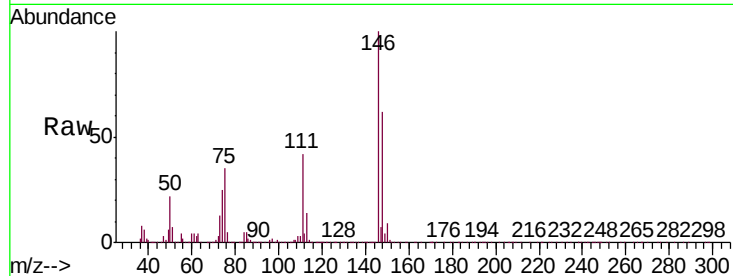
Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 258692 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 42.4  | 31.1  | 57.9   |
| 148      | 62.1  | 45.4  | 84.2   |



#63

1,4-Dichlorobenzene

Concen: 4.957 ug/L

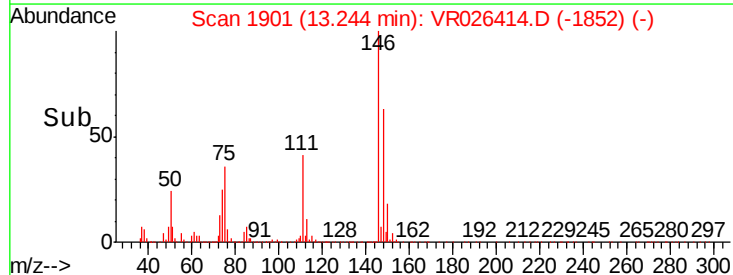
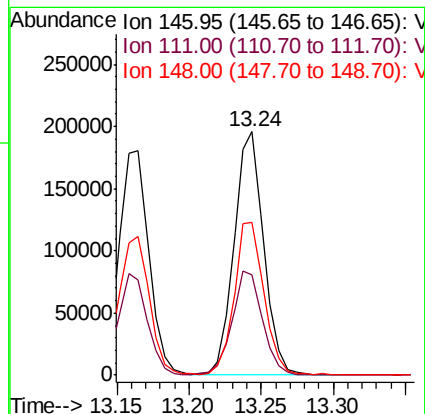
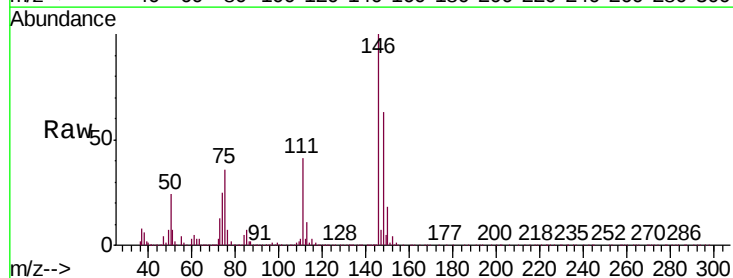
RT: 13.24 min Scan# 1901

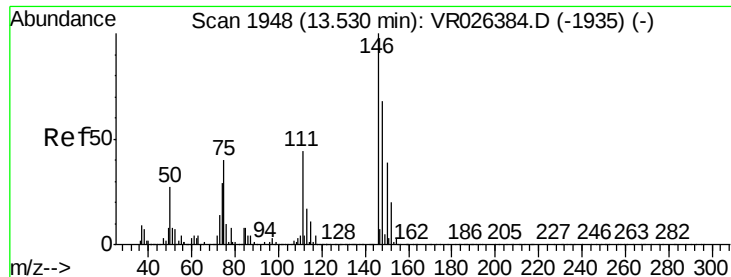
Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 279404 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 41.1  | 30.0  | 55.8   |
| 148      | 62.7  | 43.7  | 81.1   |

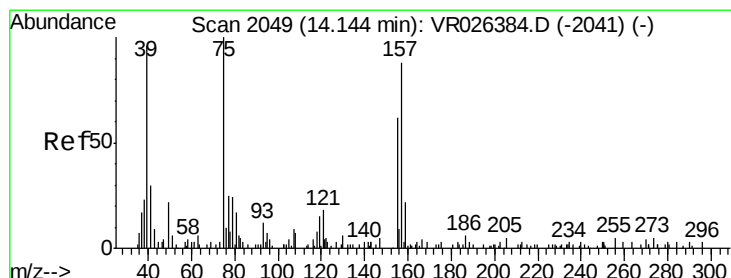
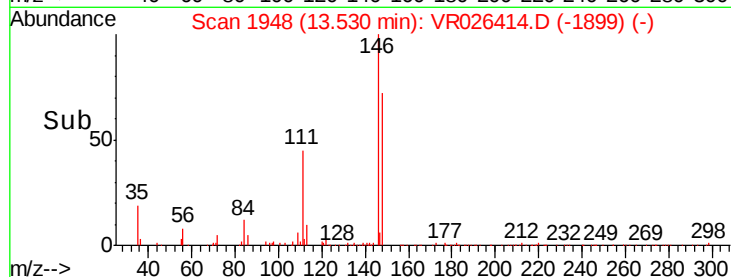
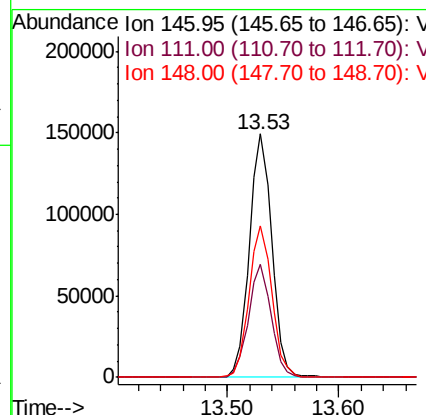
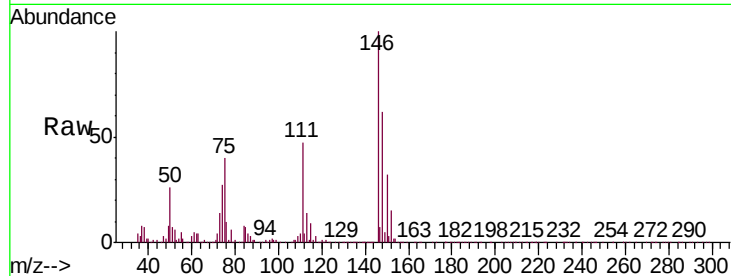




#65  
 1,2-Dichlorobenzene  
 Concen: 4.986 ug/L  
 RT: 13.53 min Scan# 1948  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

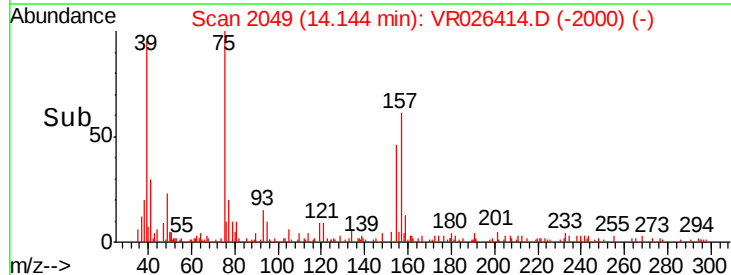
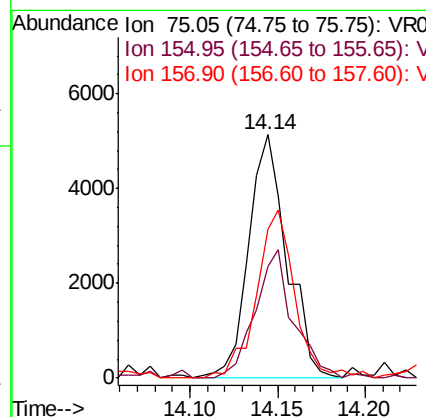
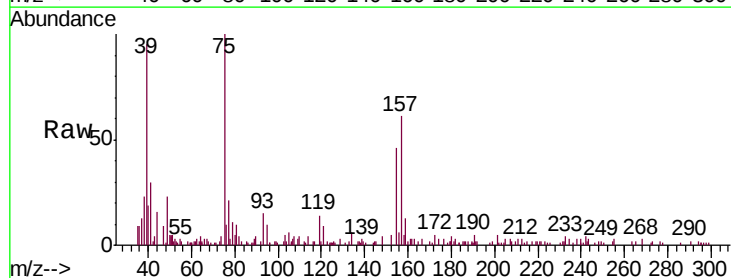
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00593

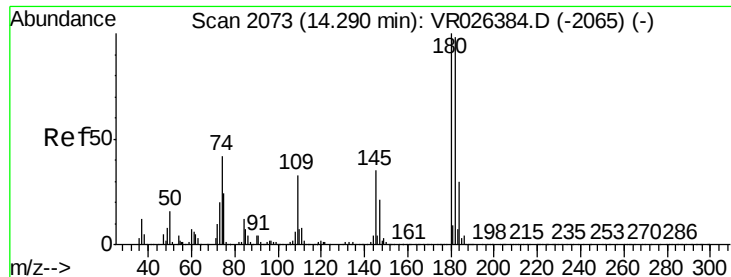
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.6  | 36.9  | 55.3  |
| 148     | 62.1  | 49.4  | 74.0  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.994 ug/L  
 RT: 14.14 min Scan# 2049  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 45.7  | 53.8  | 80.8#  |
| 157     | 61.4  | 67.4  | 101.0# |

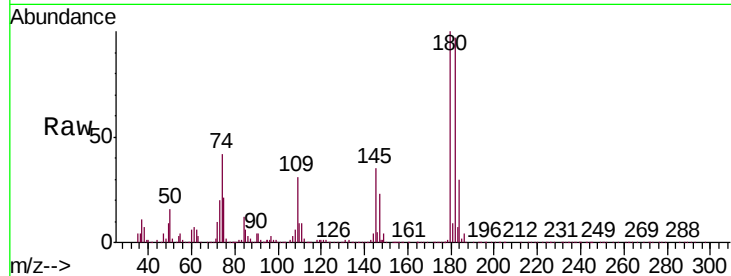




#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.107 ug/L  
 RT: 14.29 min Scan# 2073  
 Delta R.T. 0.00 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00593

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.1  | 79.0  | 118.6 |
| 184     | 30.7  | 25.5  | 38.3  |
| 145     | 34.6  | 26.2  | 39.2  |



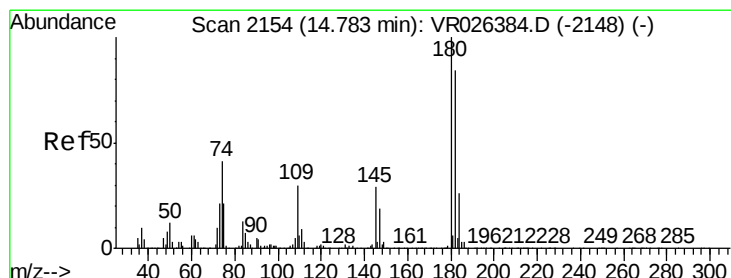
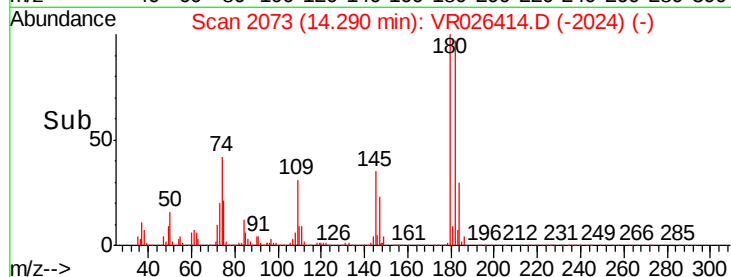
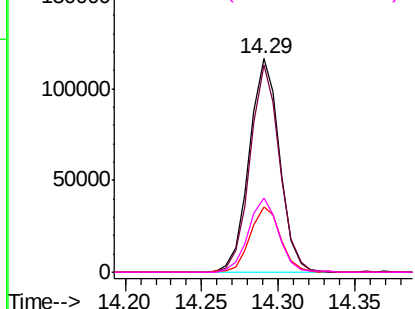
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

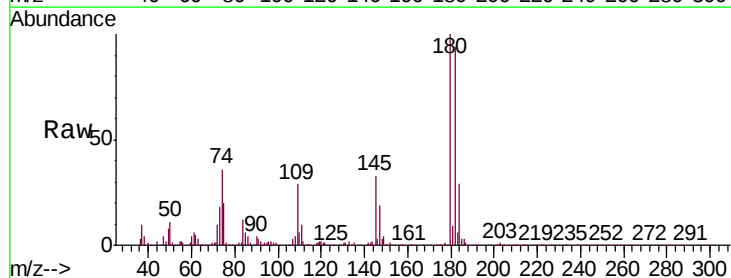
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.947 ug/L  
 RT: 14.79 min Scan# 2155  
 Delta R.T. 0.01 min  
 Lab File: VR026414.D  
 Acq: 28 Feb 2019 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.3  | 74.7  | 112.1 |
| 145     | 33.4  | 26.6  | 40.0  |

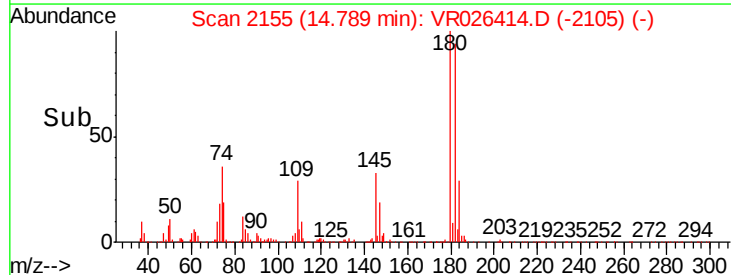
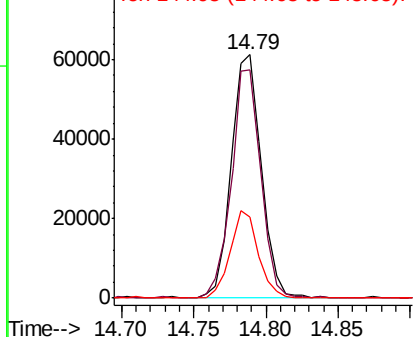


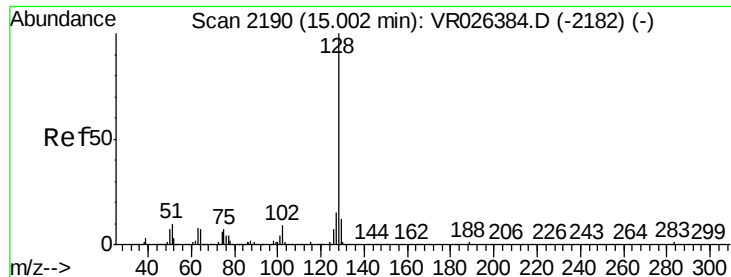
Abundance

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: 4.847 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00593

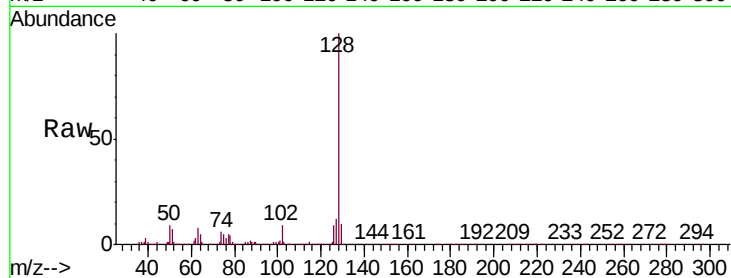
Tgt Ion:128 Resp: 80797

Ion Ratio Lower Upper

128 100

127 12.1 11.2 16.8

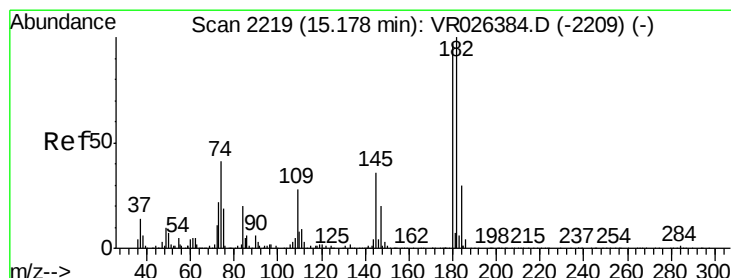
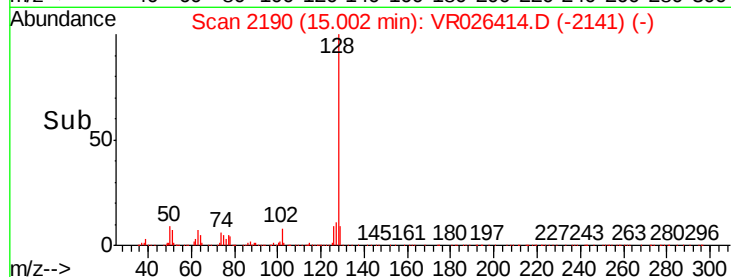
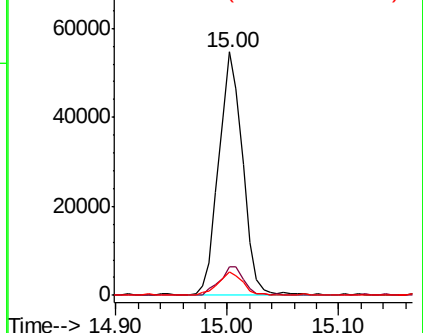
129 10.3 8.3 12.5



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: 5.260 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VR026414.D

Acq: 28 Feb 2019 12:11

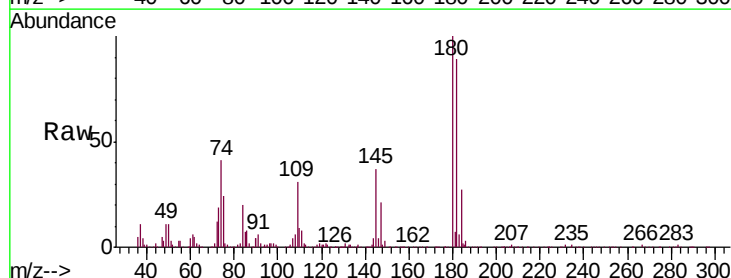
Tgt Ion:180 Resp: 66891

Ion Ratio Lower Upper

180 100

182 91.5 77.4 116.0

145 37.3 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

