

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072120\  
 Data File : VV017564.D  
 Acq On : 21 Jul 2020 14:39  
 Operator : SY/MD  
 Sample : VSTD10063  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

Quant Time: Jul 22 02:38:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM072120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 22 02:35:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 344849   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 331043   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 185116   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 212162 | 108.88 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 139479 | 90.38  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.12  | 63  | 422230 | 91.23  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.90  | 46  | 338321 | 232.71 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.38  | 84  | 492363 | 108.86 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.05  | 65  | 331607 | 108.16 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.07  | 84  | 895166 | 117.30 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.09  | 67  | 270132 | 118.62 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 853546 | 118.05 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.64  | 79  | 158462 | 115.56 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.11  | 63  | 261922 | 247.63 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 377596 | 116.43 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 376780 | 107.96 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 347205 | 105.279 ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 257595 | 97.812 ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 250475 | 91.454 ug/L  | 99     |
| 6) Bromomethane                | 1.53 | 94  | 151956 | 86.493 ug/L  | 98     |
| 8) Chloroethane                | 1.59 | 64  | 123625 | 81.190 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 425897 | 90.412 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 206293 | 82.709 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 190809 | 84.577 ug/L  | 97     |
| 13) Acetone                    | 2.19 | 43  | 243194 | 144.278 ug/L | 98     |
| 14) Carbon disulfide           | 2.31 | 76  | 691343 | 106.317 ug/L | 99     |
| 15) Methyl Acetate             | 2.44 | 43  | 248422 | 98.591 ug/L  | 97     |
| 16) Methylene chloride         | 2.52 | 84  | 247423 | 93.643 ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 236480 | 102.748 ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 798300 | 98.597 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 433156 | 101.752 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 259657 | 103.901 ug/L | 97     |
| 22) 2-Butanone                 | 3.99 | 43  | 359615 | 222.178 ug/L | 99     |
| 23) Bromochloromethane         | 4.27 | 128 | 142530 | 102.817 ug/L | 97     |
| 25) Chloroform                 | 4.40 | 83  | 466966 | 99.271 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.15 | 62  | 395937 | 98.468 ug/L  | 99     |
| 29) Cyclohexane                | 4.70 | 56  | 394522 | 117.630 ug/L | 98     |
| 30) 1,1,1-Trichloroethane      | 4.63 | 97  | 453003 | 101.323 ug/L | 100    |
| 31) Carbon tetrachloride       | 4.85 | 117 | 408370 | 99.831 ug/L  | 99     |
| 33) Benzene                    | 5.12 | 78  | 955077 | 108.035 ug/L | 100    |
| 34) Trichloroethene            | 5.94 | 95  | 260668 | 107.250 ug/L | 99     |
| 35) Methylcyclohexane          | 6.15 | 83  | 417401 | 114.784 ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 237106 | 105.403 ug/L | 98     |
| 38) Bromodichloromethane       | 6.53 | 83  | 361426 | 101.667 ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 424034 | 112.842 ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.24 | 43  | 680023 | 218.234 ug/L | 99     |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

Quant Time: Jul 22 02:38:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM072120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 22 02:35:32 2020  
 Response via : Initial Calibration

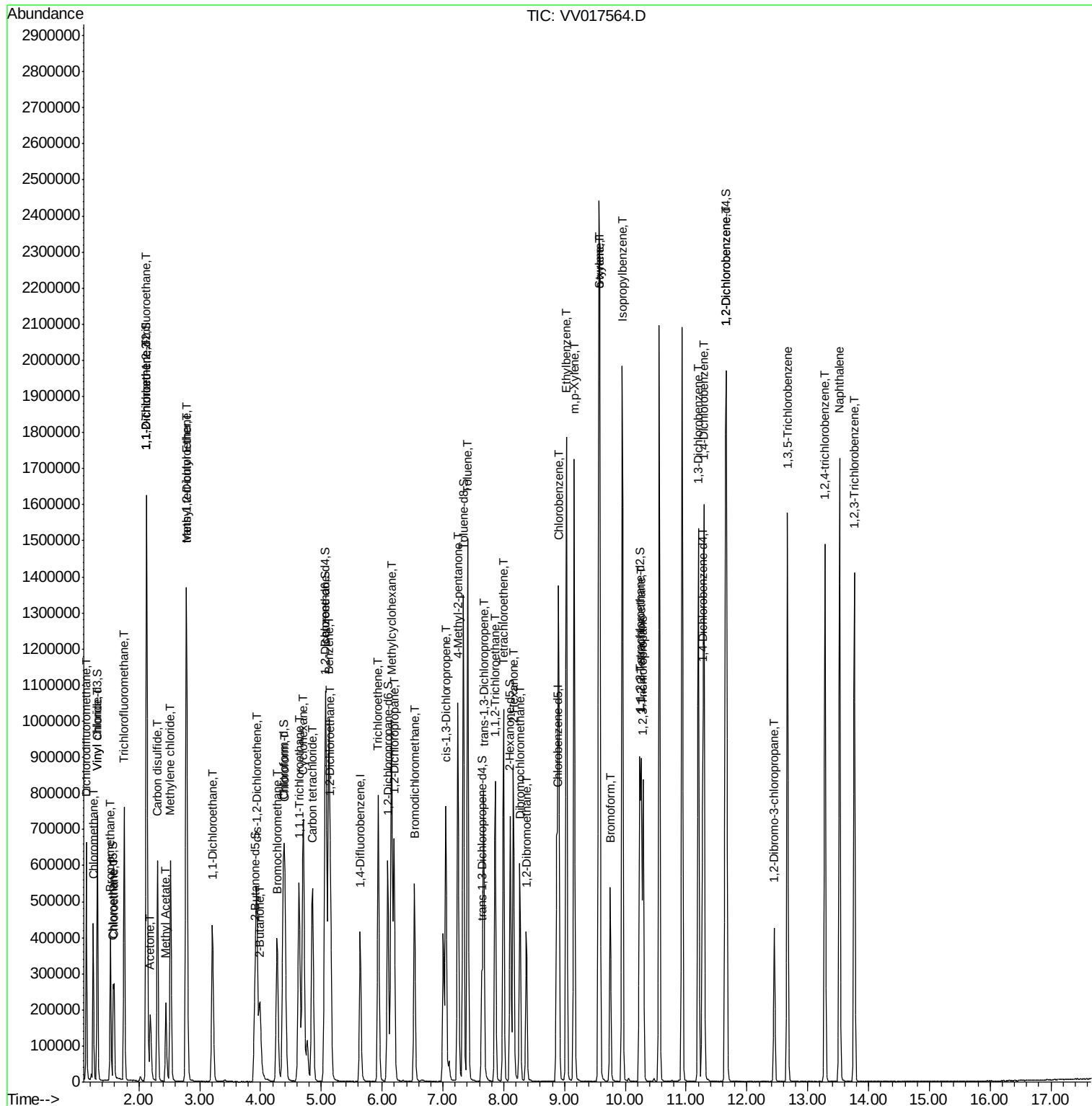
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 1047632  | 107.452 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 421825   | 107.471 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 243214   | 100.956 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.00  | 164  | 223408   | 105.774 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.16  | 43   | 541777   | 218.000 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 300953   | 100.433 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 264796   | 101.032 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.90  | 112  | 687368   | 101.202 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.03  | 91   | 1196054  | 104.944 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.16  | 106  | 458855   | 107.848 | ug/L  | 98       |
| 54) o-xylene                   | 9.56  | 106  | 441392   | 106.771 | ug/L  | 98       |
| 55) Styrene                    | 9.58  | 104  | 764553   | 108.509 | ug/L  | 97       |
| 56) Isopropylbenzene           | 9.95  | 105  | 1214297  | 108.908 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 381028   | 105.430 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 317145   | 103.126 | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 235598   | 99.208  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 593998   | 100.390 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 601803   | 97.800  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 596593   | 97.426  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 101549   | 91.387  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 475862   | 100.944 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 432236   | 102.470 | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 1263335  | 106.130 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 421865   | 100.458 | ug/L  | 99       |

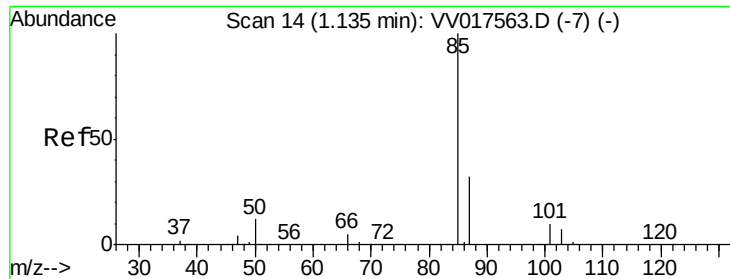
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed Jul 22 02:35:32 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 105.279 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

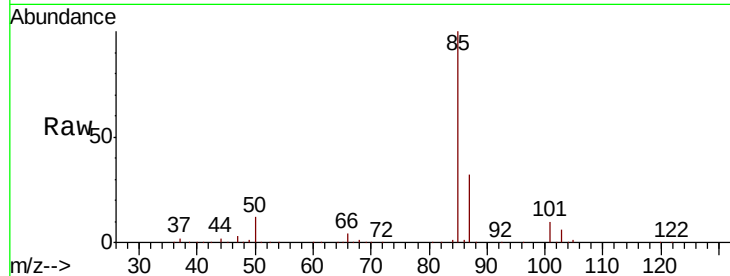
VSTD10063

Tot Ion: 85 Resp: 347205

Ion Ratio Lower Upper

85 100

87 32.3 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

400000

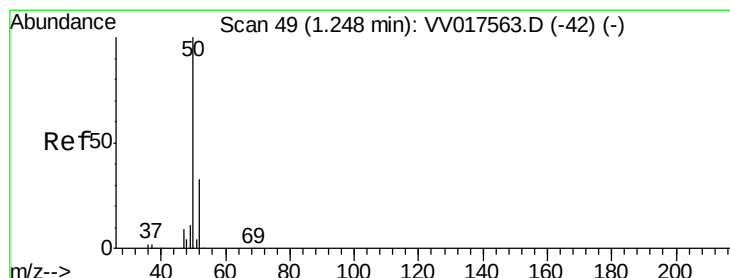
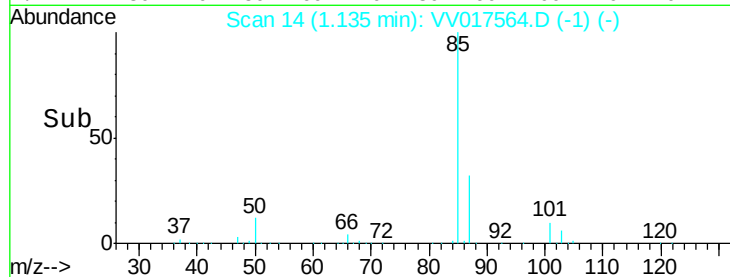
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 97.812 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV017564.D

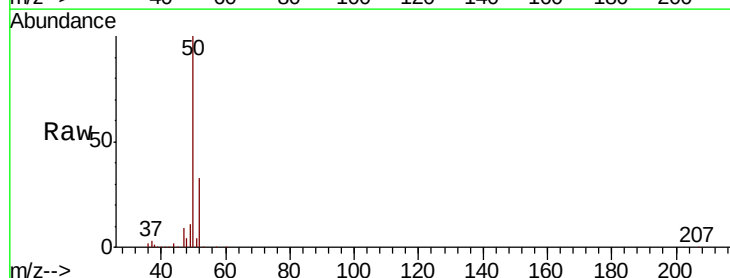
Acq: 21 Jul 2020 14:39

Tgt Ion: 50 Resp: 257595

Ion Ratio Lower Upper

50 100

52 32.7 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

300000

250000

200000

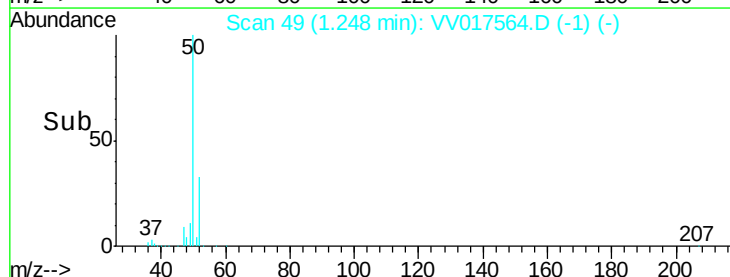
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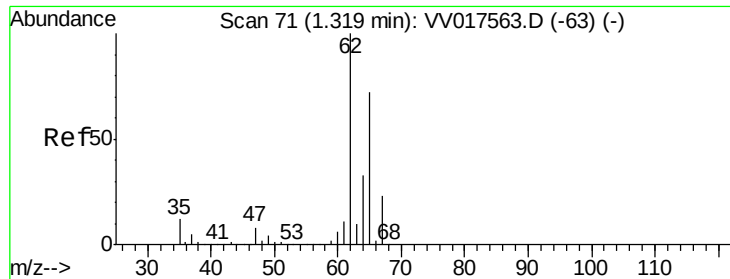
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 91.454 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

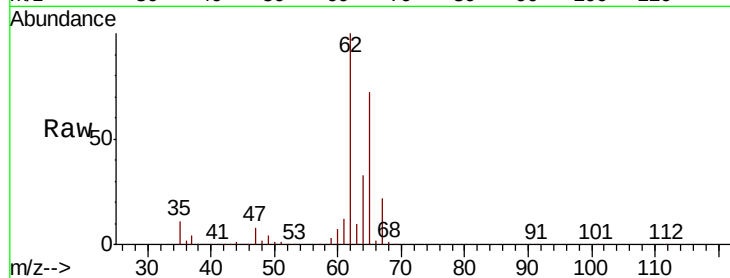
VSTD10063

Tot Ion: 62 Resp: 250475

Ion Ratio Lower Upper

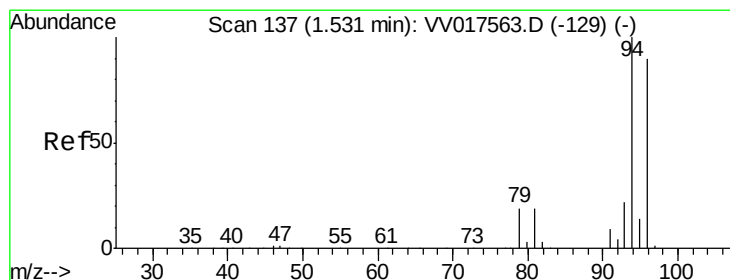
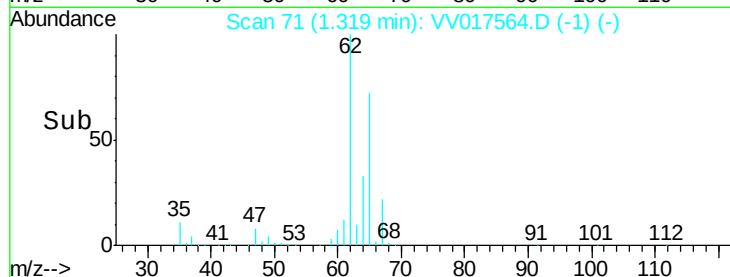
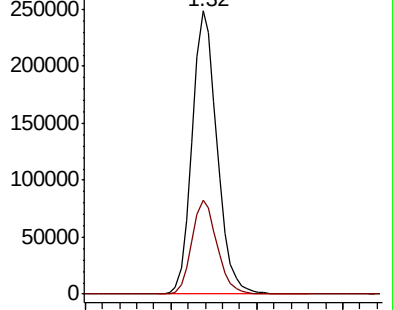
62 100

64 33.0 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 86.493 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV017564.D

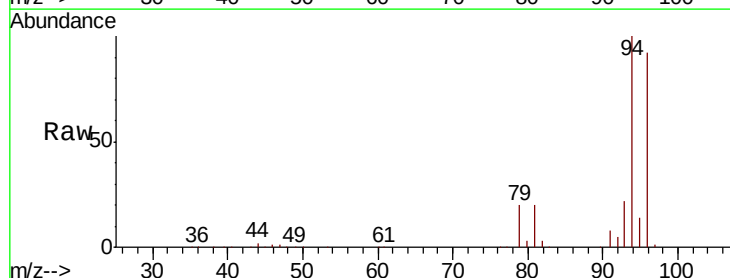
Acq: 21 Jul 2020 14:39

Tgt Ion: 94 Resp: 151956

Ion Ratio Lower Upper

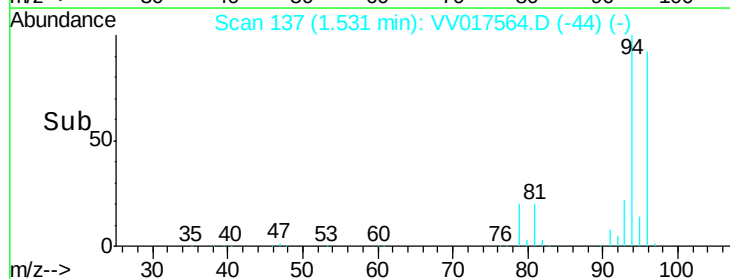
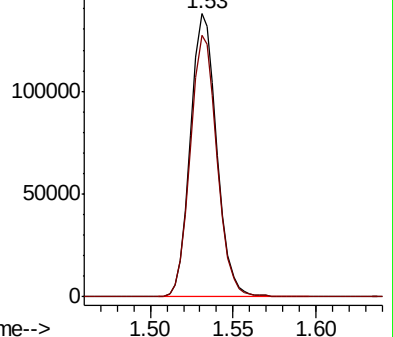
94 100

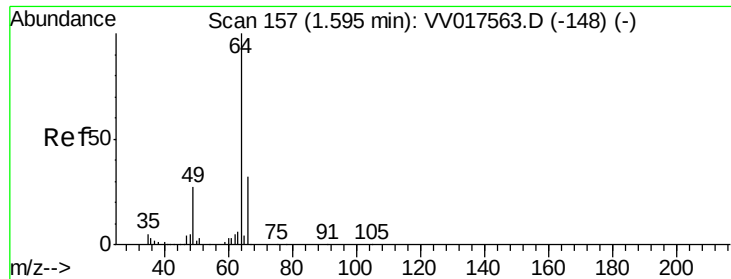
96 92.3 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

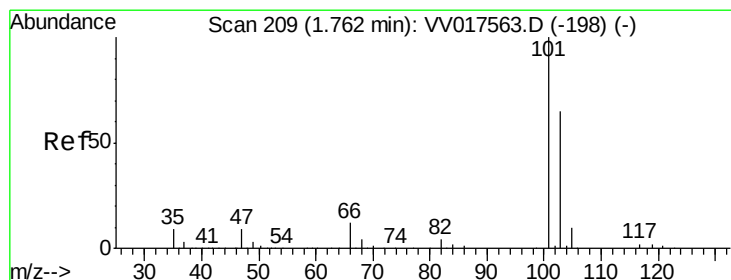
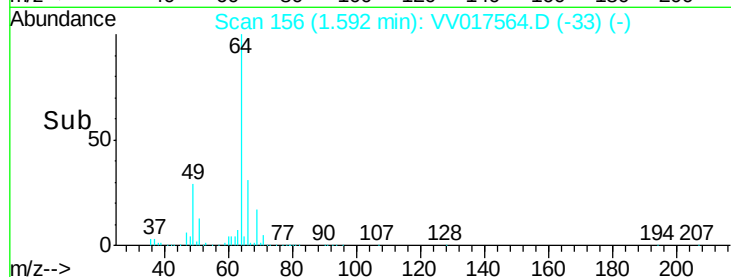
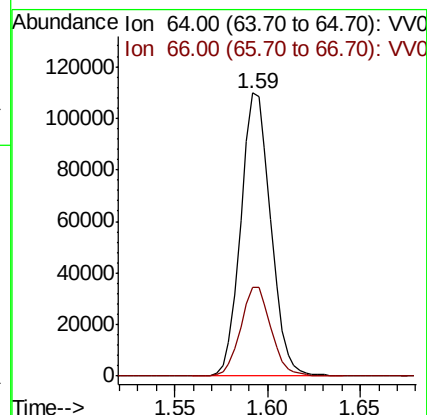
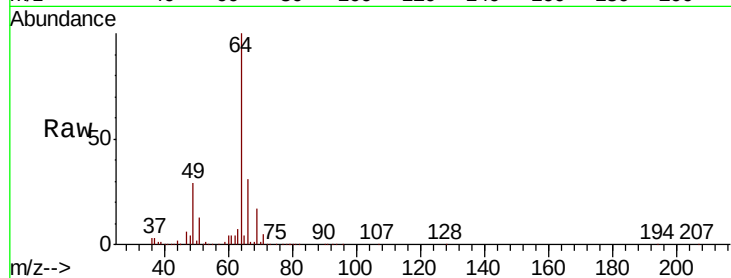




#8  
Chloroethane  
Concen: 81.190 ug/L  
RT: 1.59 min Scan# 156  
Delta R.T. -0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

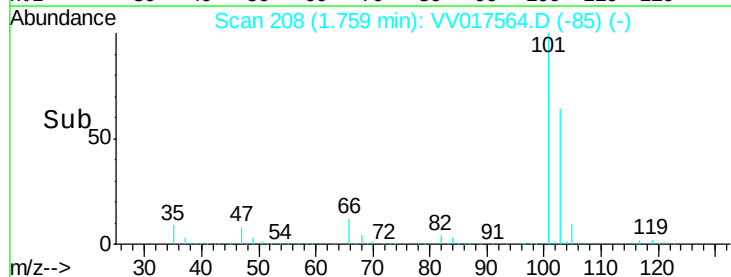
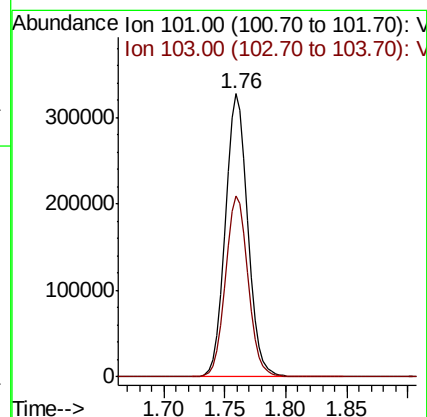
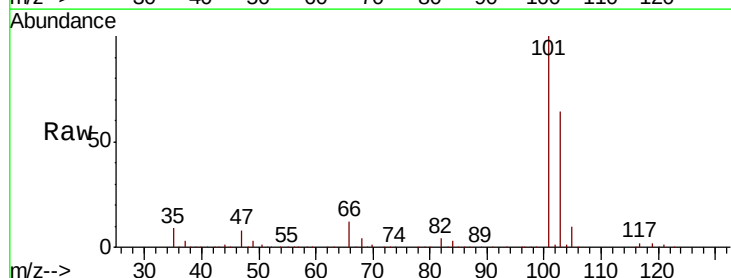
Instrument :  
MSVOA\_V  
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VSTD10063

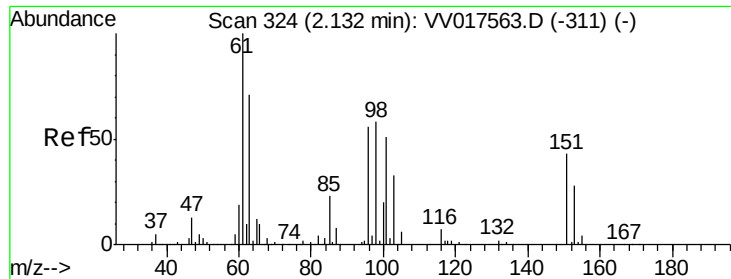
Tot Ion: 64 Resp: 123625  
Ion Ratio Lower Upper  
64 100  
66 31.3 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 90.412 ug/L  
RT: 1.76 min Scan# 208  
Delta R.T. -0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Tgt Ion: 101 Resp: 425897  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.8 77.6





#10

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

Concen: 82.709 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10063

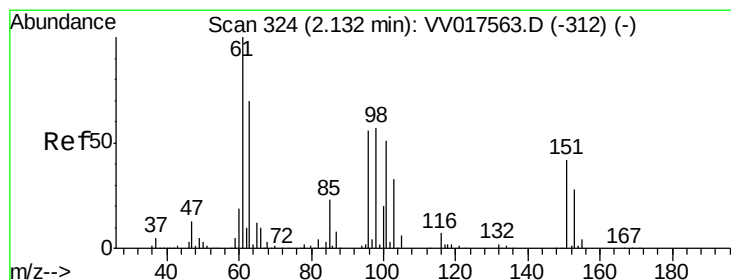
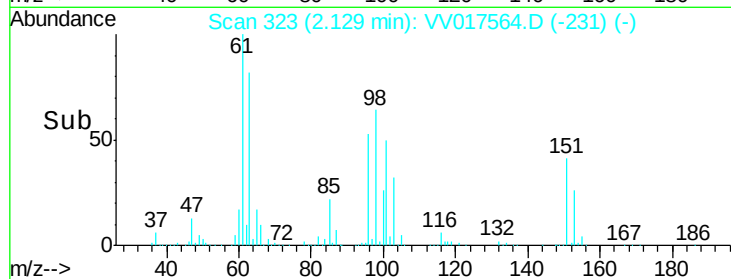
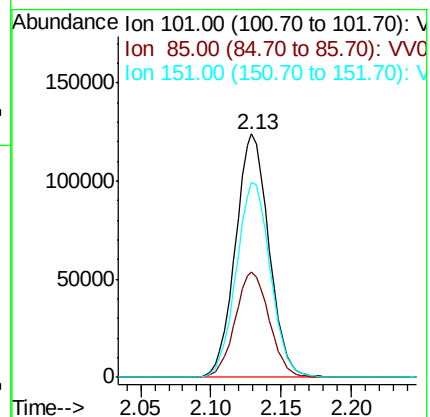
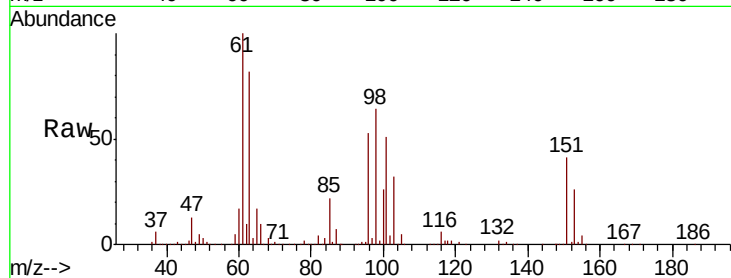
Tot Ion:101 Resp: 206293

Ion Ratio Lower Upper

101 100

85 44.0 35.1 52.7

151 81.6 67.0 100.4



#12

1,1-Dichloroethene

Concen: 84.577 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

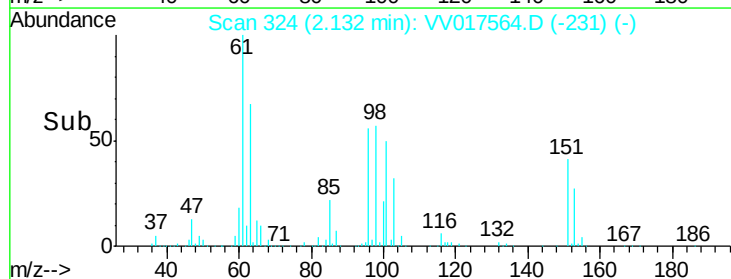
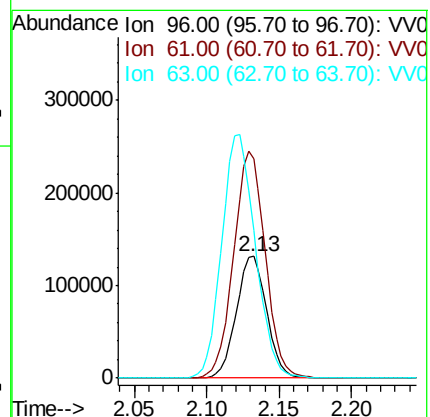
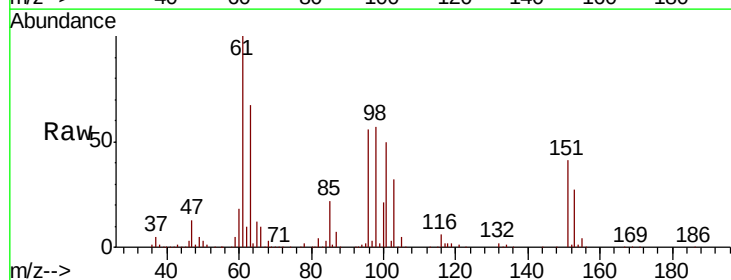
Tgt Ion: 96 Resp: 190809

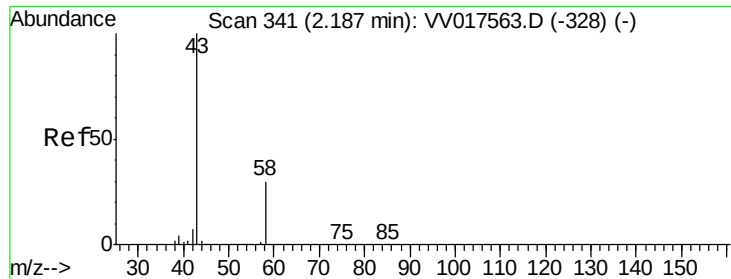
Ion Ratio Lower Upper

96 100

61 180.0 124.5 231.3

63 121.1 89.0 165.4





#13

Acetone

Concen: 144.278 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

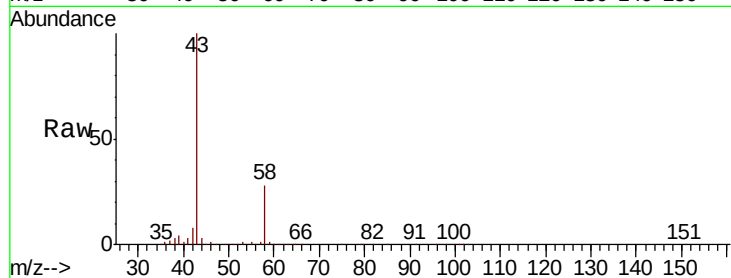
VSTD10063

Tot Ion: 43 Resp: 243194

Ion Ratio Lower Upper

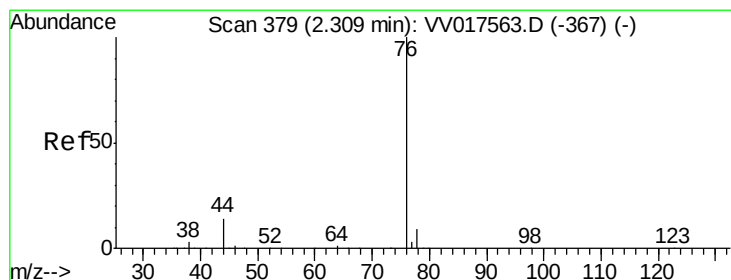
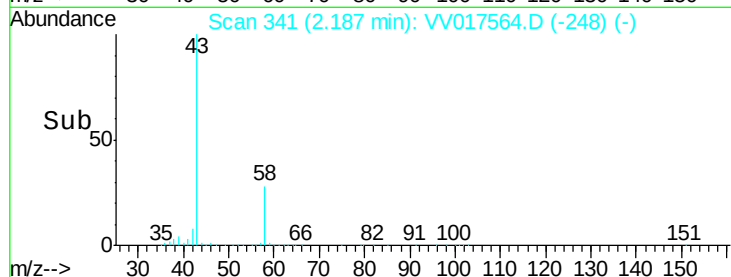
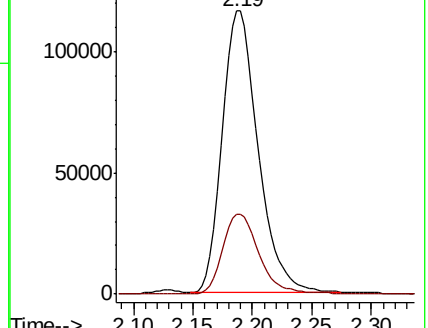
43 100

58 28.1 0.0 58.0



Abundance Ion 43.00 (42.70 to 43.70): VV017563.D (-328) (-)

Ion 58.00 (57.70 to 58.70): VV017563.D (-328) (-)



#14

Carbon disulfide

Concen: 106.317 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV017564.D

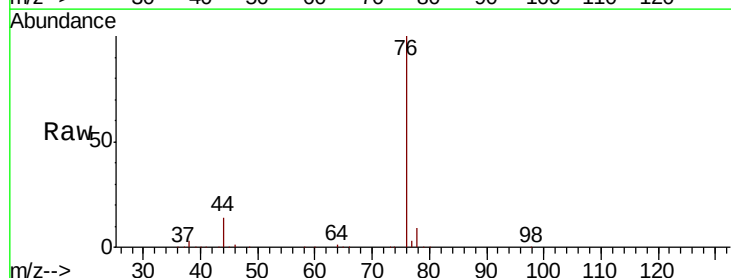
Acq: 21 Jul 2020 14:39

Tgt Ion: 76 Resp: 691343

Ion Ratio Lower Upper

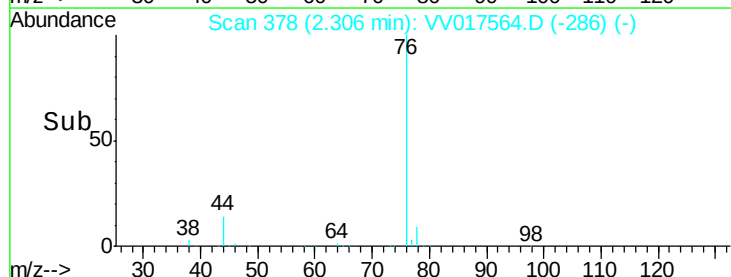
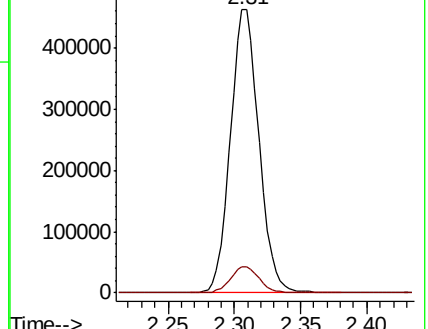
76 100

78 9.3 7.1 10.7

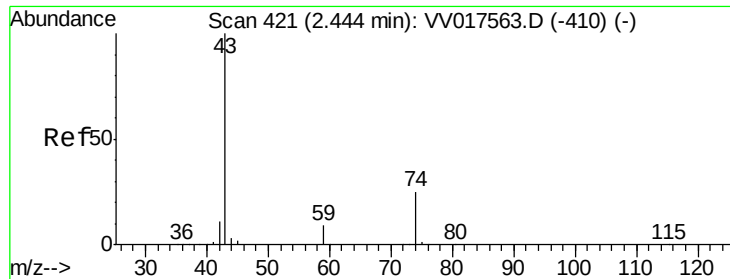


Abundance Ion 76.00 (75.70 to 76.70): VV017563.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV017563.D (-367) (-)



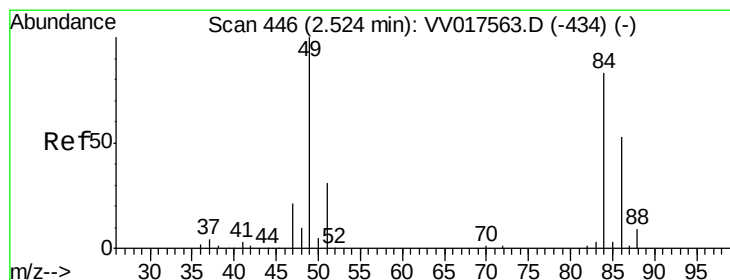
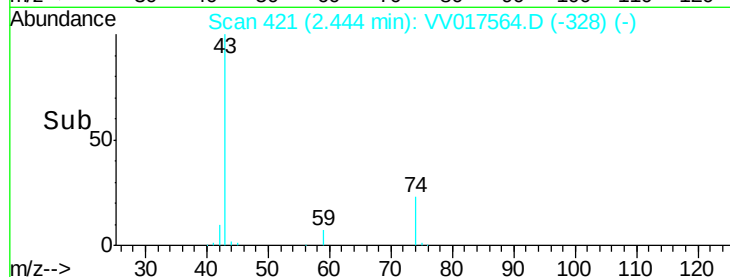
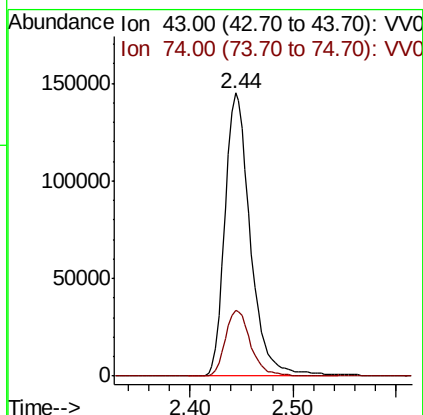
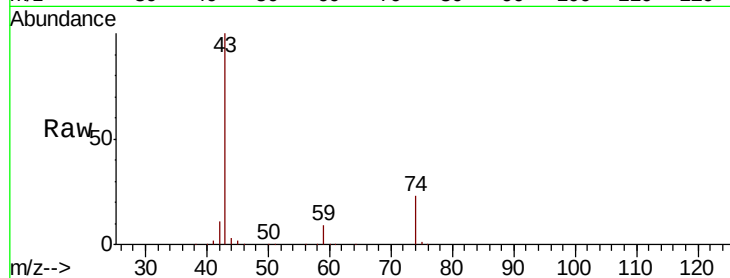




#15  
Methvl Acetate  
Concen: 98.591 ug/L  
RT: 2.44 min Scan# 421  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

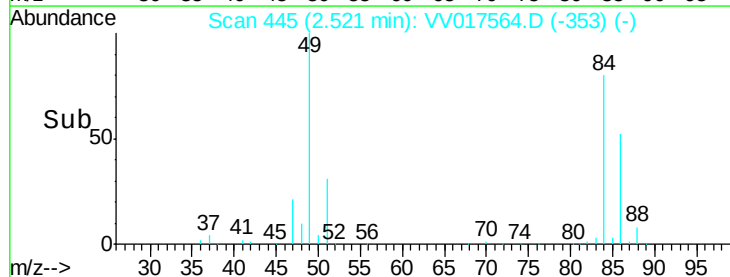
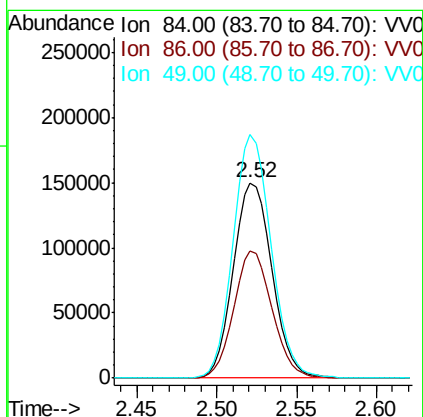
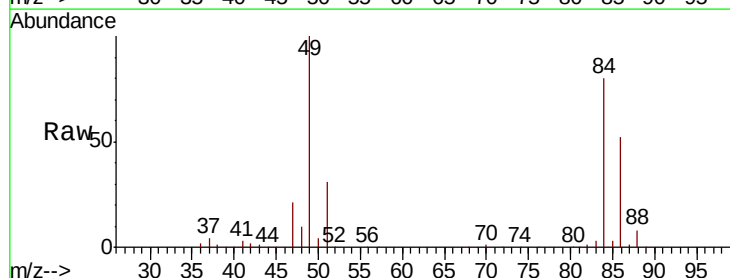
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

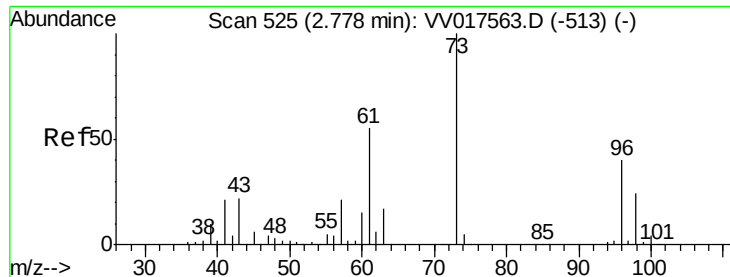
Tot Ion: 43 Resp: 248422  
Ion Ratio Lower Upper  
43 100  
74 23.1 19.5 29.3



#16  
Methylene chloride  
Concen: 93.643 ug/L  
RT: 2.52 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Tgt Ion: 84 Resp: 247423  
Ion Ratio Lower Upper  
84 100  
86 65.0 44.5 82.7  
49 124.8 84.4 156.8





#17

trans-1,2-Dichloroethene

Concen: 102.748 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

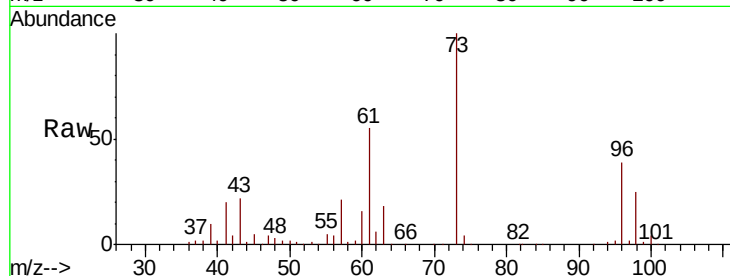
Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

Tot Ion: 96 Resp: 236480

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 139.5 | 97.0  | 180.2 |
| 98  | 63.5  | 42.6  | 79.0  |

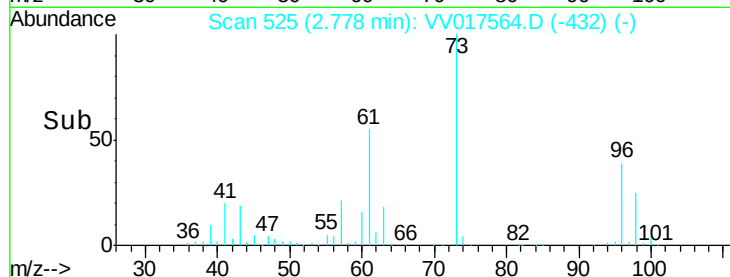


Abundance

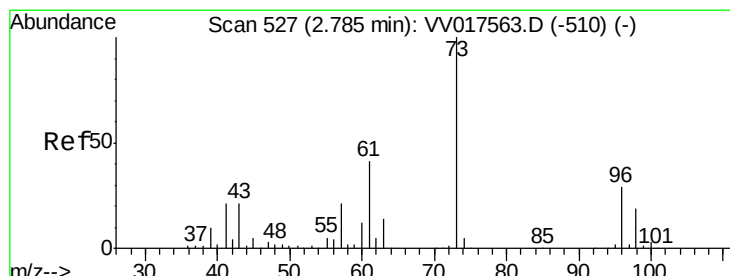
Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



Time-->



#18

Methyl tert-butyl Ether

Concen: 98.597 ug/L

RT: 2.78 min Scan# 527

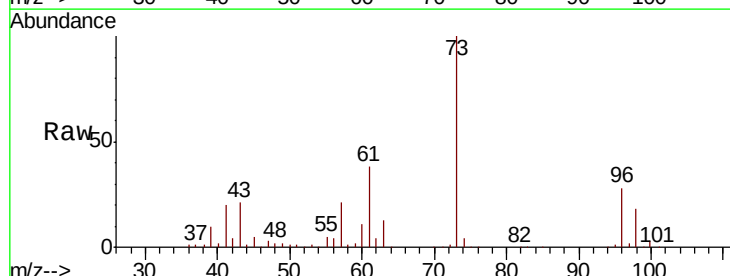
Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Tgt Ion: 73 Resp: 798300

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 21.4  | 17.3  | 25.9  |
| 57  | 21.0  | 16.8  | 25.2  |

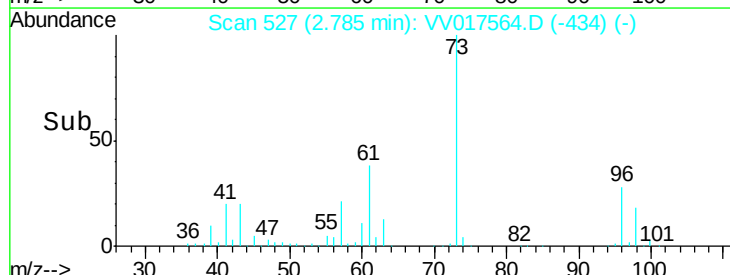


Abundance

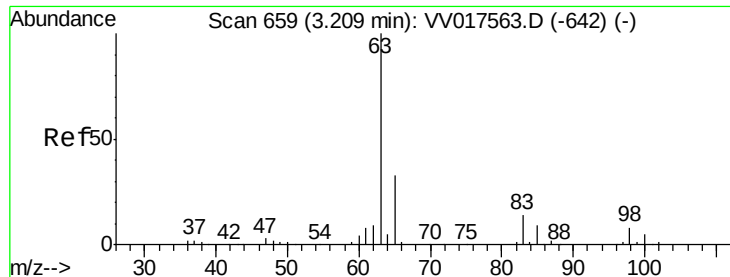
Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



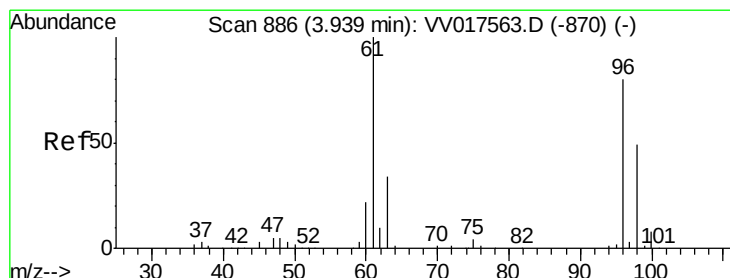
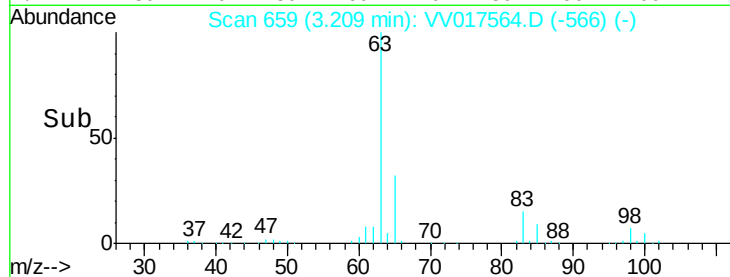
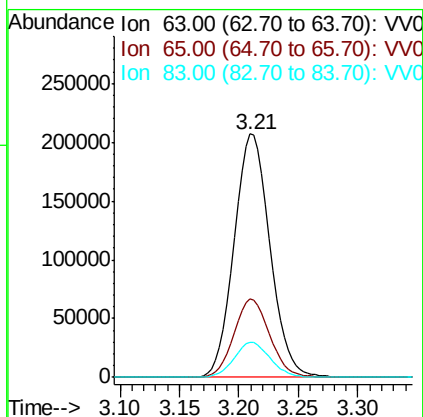
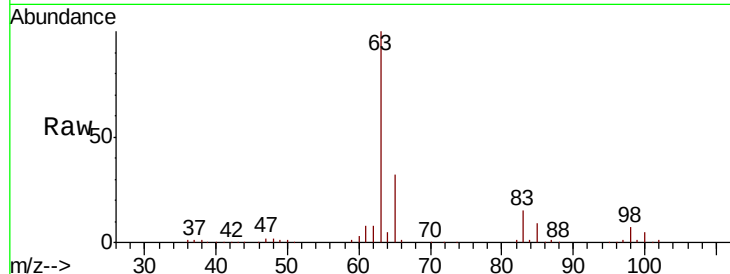
Time-->



#19  
 1,1-Dichloroethane  
 Concen: 101.752 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

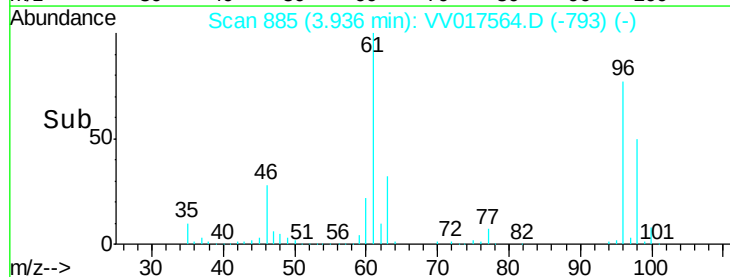
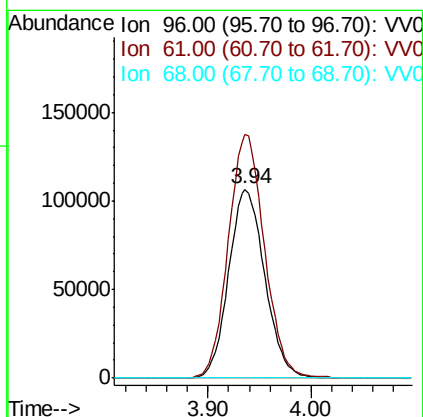
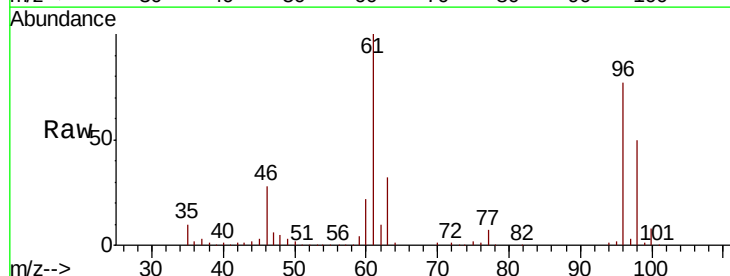
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD10063

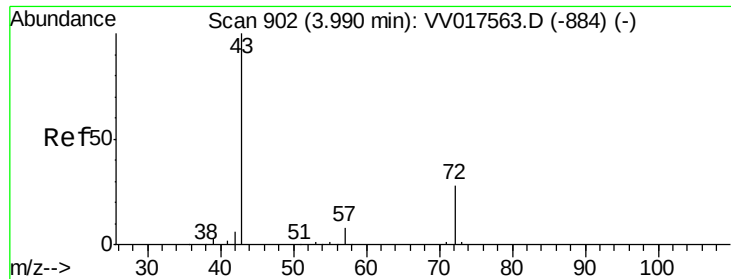
Tot Ion: 63 Resp: 433156  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 23.0 42.8  
 83 14.6 9.9 18.5



#20  
 cis-1,2-Dichloroethene  
 Concen: 103.901 ug/L  
 RT: 3.94 min Scan# 885  
 Delta R.T. -0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

Tgt Ion: 96 Resp: 259657  
 Ion Ratio Lower Upper  
 96 100  
 61 129.1 87.8 163.2  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 222.178 ug/L

RT: 3.99 min Scan# 901

Delta R.T. -0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampled :

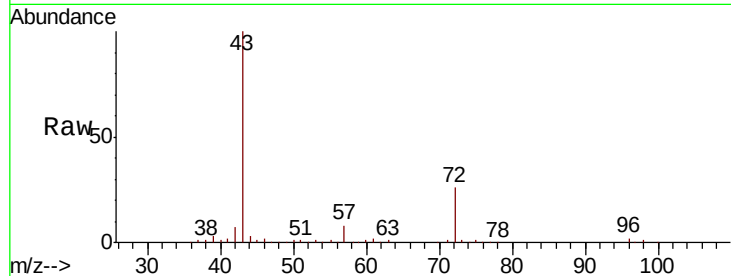
VSTD10063

Tot Ion: 43 Resp: 359615

Ion Ratio Lower Upper

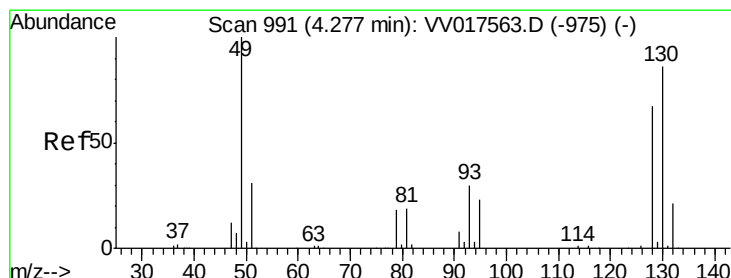
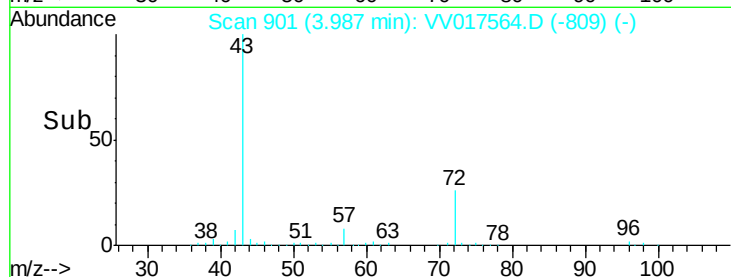
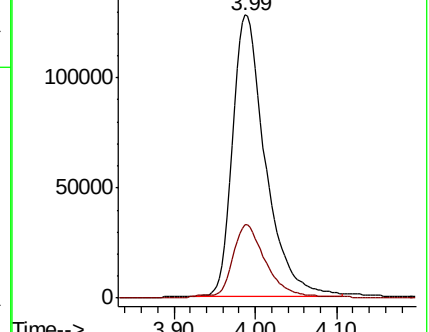
43 100

72 25.2 13.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VV017563.D (-884) (-)

Ion 72.00 (71.70 to 72.70): VV017563.D (-884) (-)



#23

Bromochloromethane

Concen: 102.817 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Tgt Ion: 128 Resp: 142530

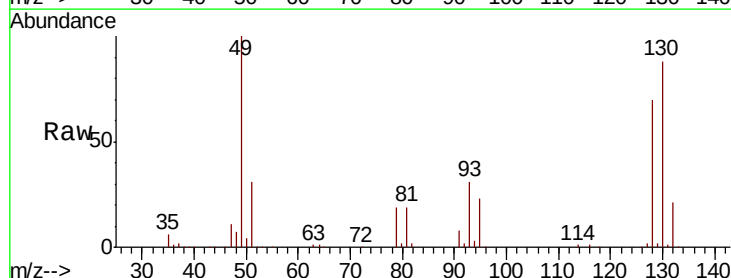
Ion Ratio Lower Upper

128 100

49 142.9 103.7 192.7

130 126.3 89.4 166.0

51 44.1 36.9 55.3

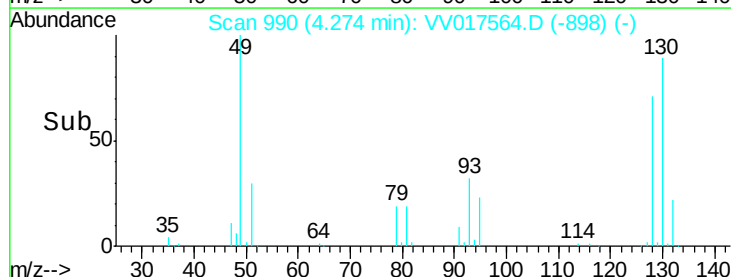
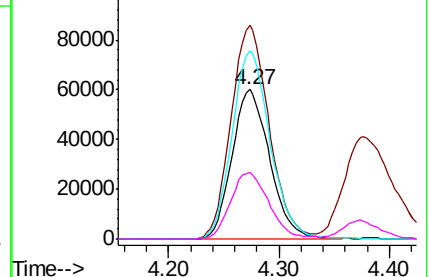


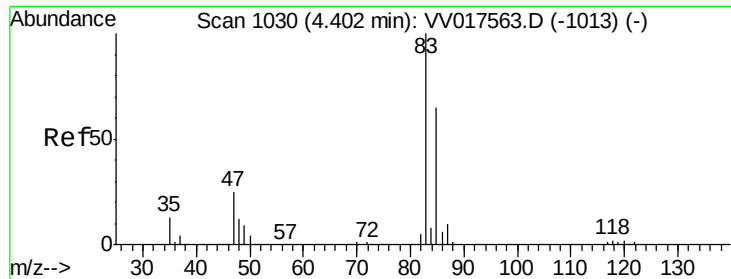
Abundance Ion 128.00 (127.70 to 128.70): VV017563.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VV017563.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VV017563.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VV017563.D (-975) (-)

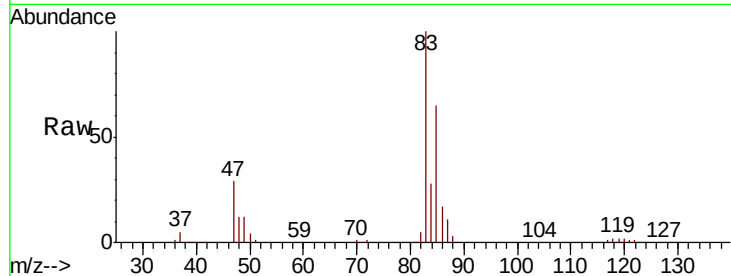




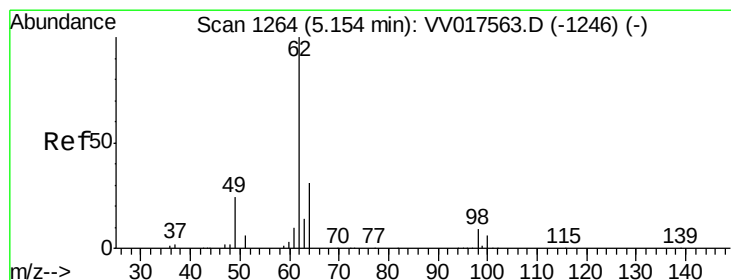
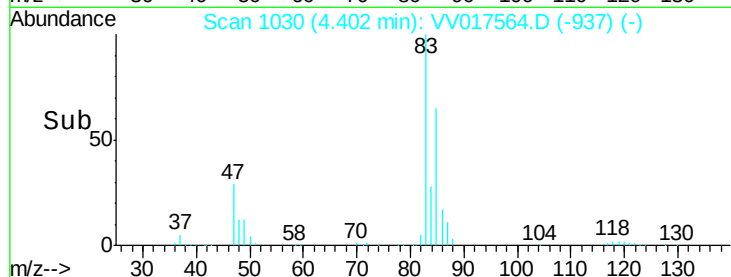
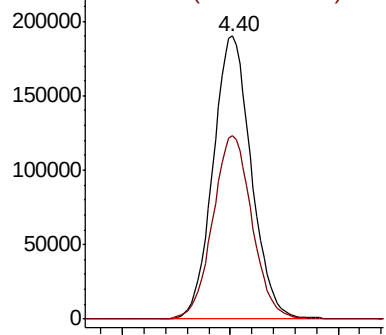
#25  
Chloroform  
Concen: 99.271 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

Tot Ion: 83 Resp: 466966  
Ion Ratio Lower Upper  
83 100  
85 64.9 45.6 84.8

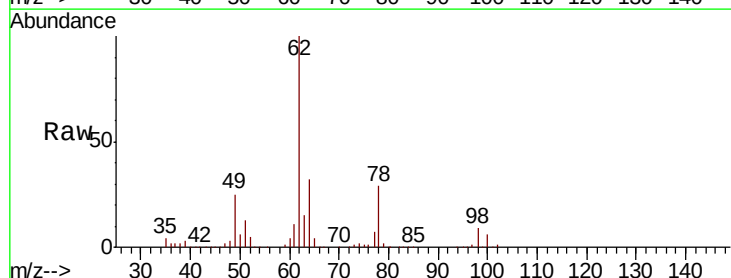


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 85.00 (84.70 to 85.70): VV0

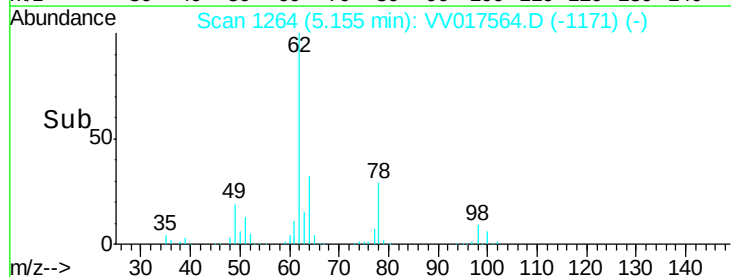
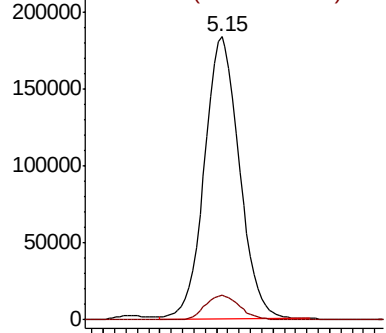


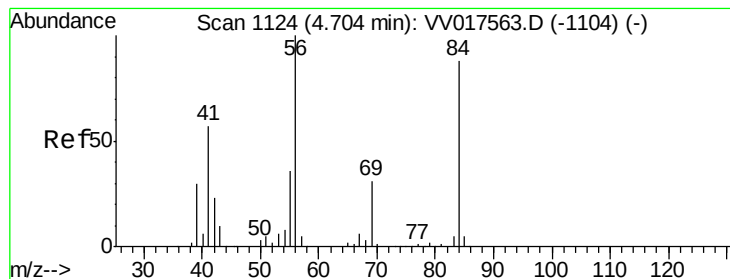
#27  
1,2-Dichloroethane  
Concen: 98.468 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Tgt Ion: 62 Resp: 395937  
Ion Ratio Lower Upper  
62 100  
98 8.6 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0





#29

Cyclohexane

Concen: 117.630 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD10063

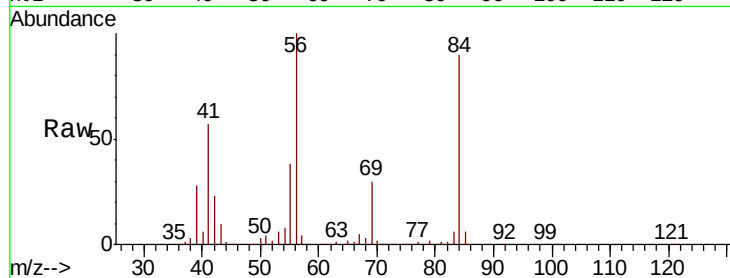
Tot Ion: 56 Resp: 394522

Ion Ratio Lower Upper

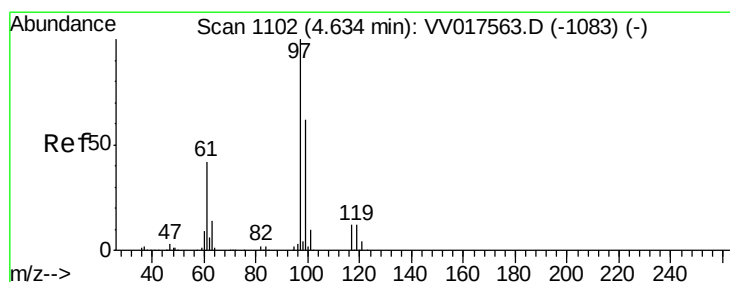
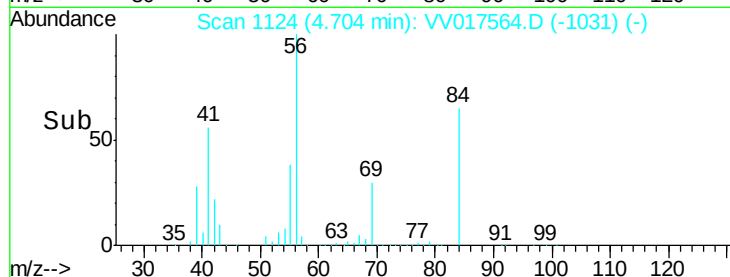
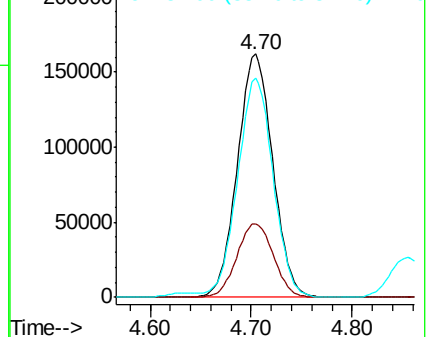
56 100

69 31.3 25.4 38.2

84 90.3 70.6 105.8



Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 101.323 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

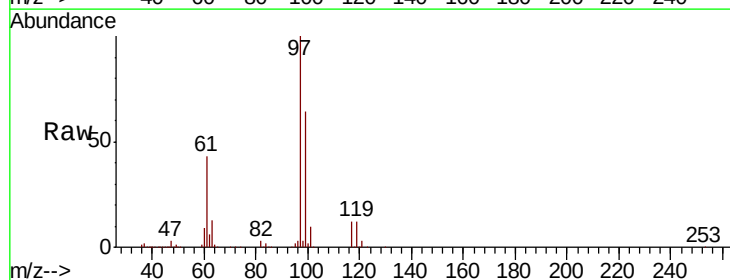
Tgt Ion: 97 Resp: 453003

Ion Ratio Lower Upper

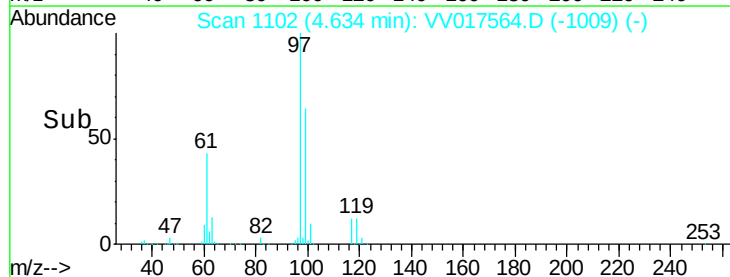
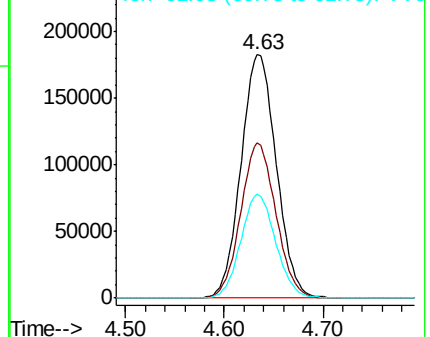
97 100

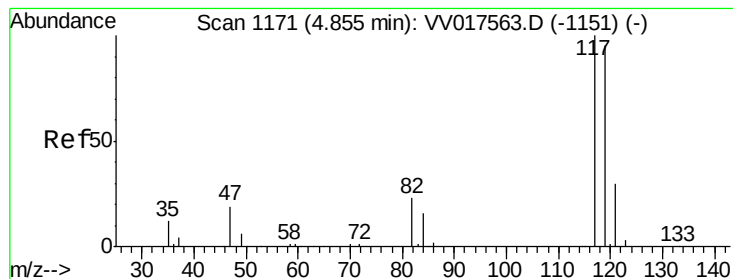
99 63.4 51.0 76.4

61 42.2 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VV0  
Ion 99.00 (98.70 to 99.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 99.831 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

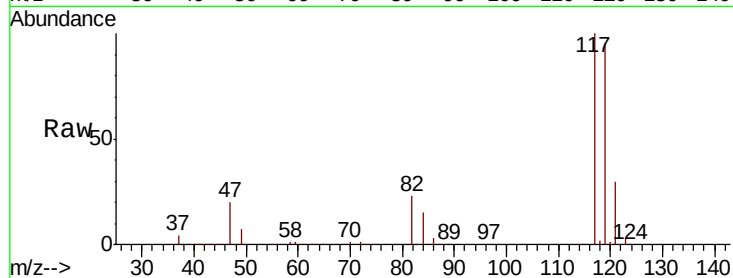
VSTD10063

Tot Ion:117 Resp: 408370

Ion Ratio Lower Upper

117 100

119 96.5 78.2 117.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

200000

150000

100000

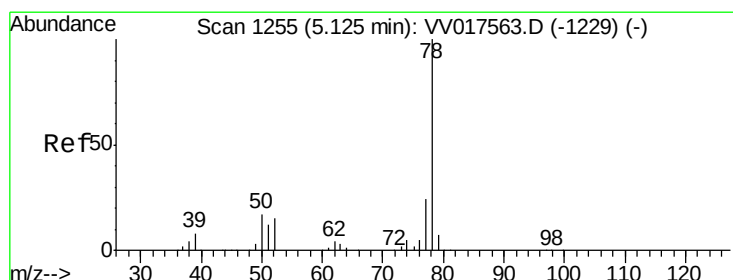
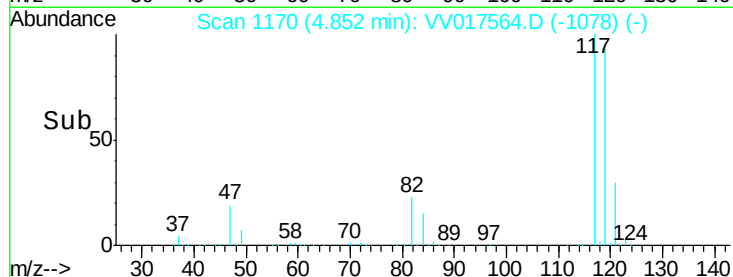
50000

0

4.85

4.80 4.90 5.00

Time-->



#33

Benzene

Concen: 108.035 ug/L

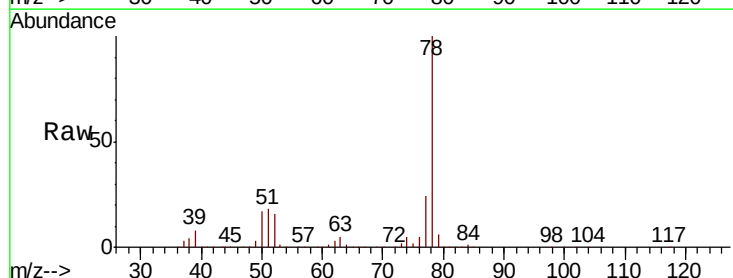
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Tgt Ion: 78 Resp: 955077



Abundance Ion 78.00 (77.70 to 78.70): VV0

500000

400000

300000

200000

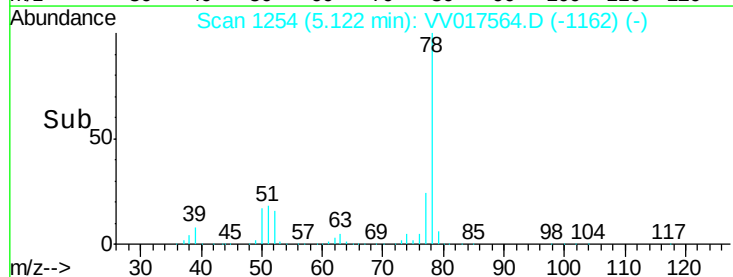
100000

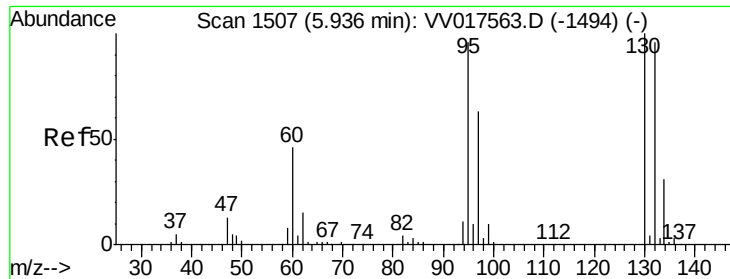
0

5.12

5.00 5.10 5.20

Time-->





#34

Trichloroethene

Concen: 107.250 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10063

Tot Ion: 95 Resp: 260668

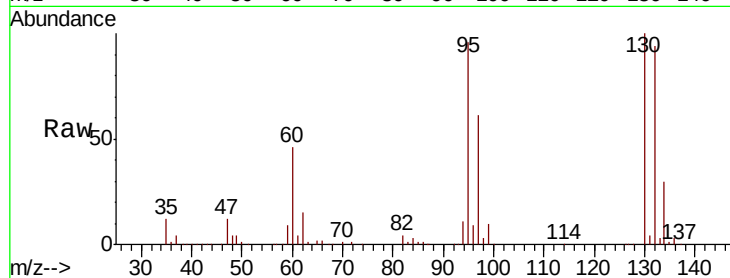
Ion Ratio Lower Upper

95 100

97 64.2 45.8 85.2

132 98.4 70.3 130.5

130 104.6 72.9 135.3

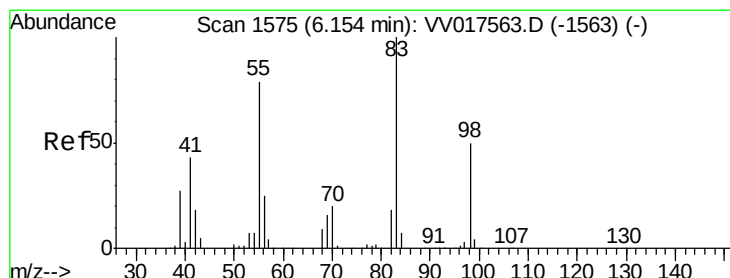
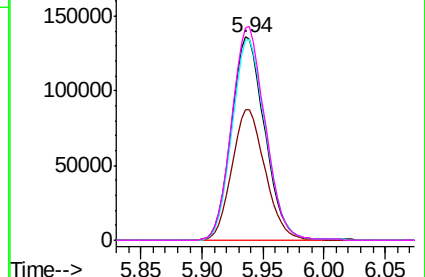
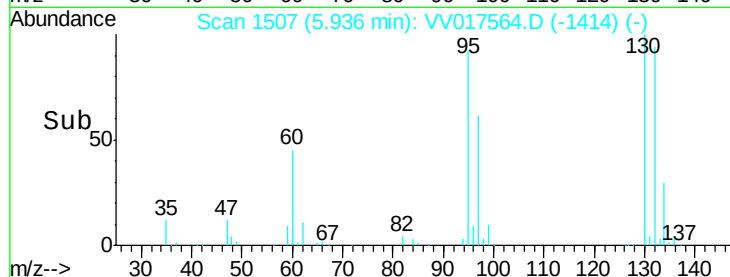


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 114.784 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

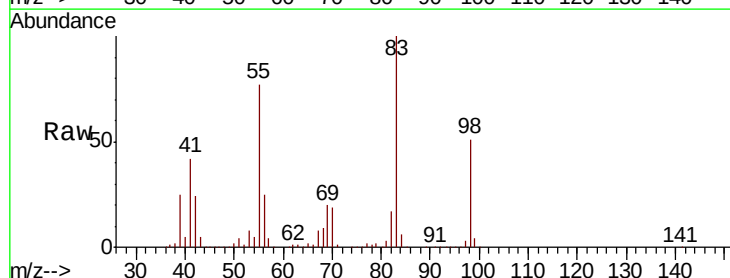
Tgt Ion: 83 Resp: 417401

Ion Ratio Lower Upper

83 100

55 76.1 61.7 92.5

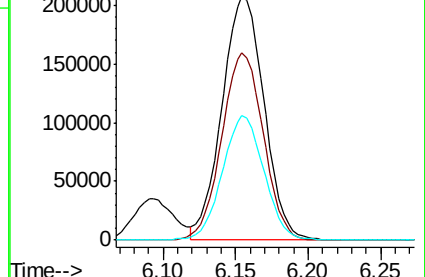
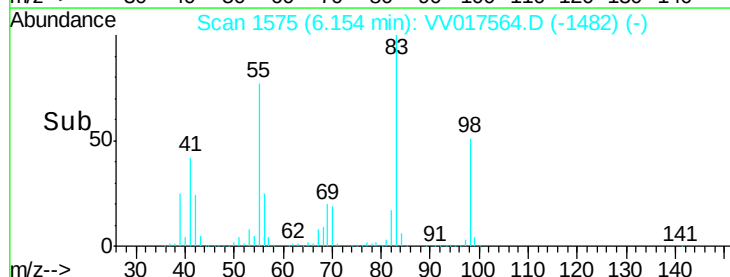
98 50.8 39.3 58.9



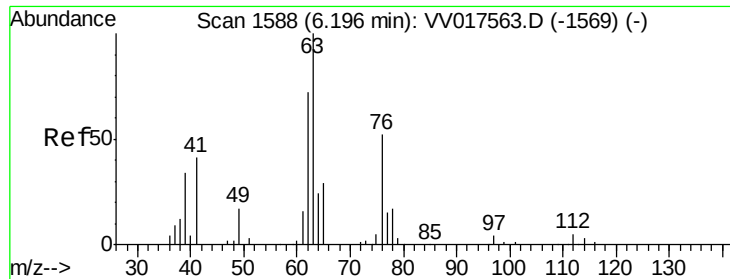
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



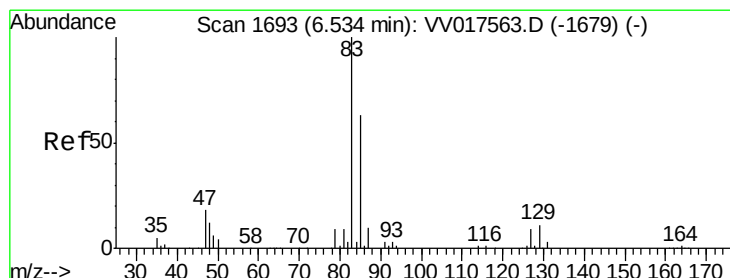
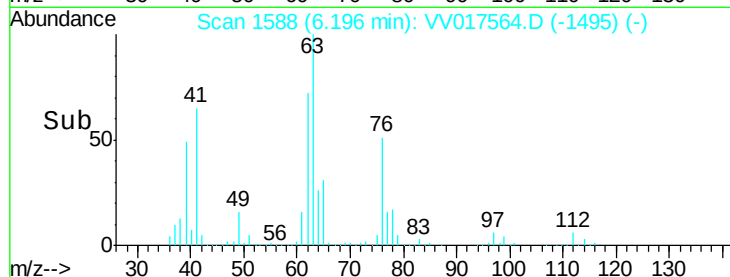
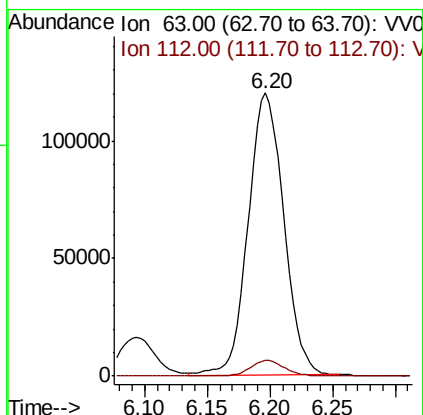
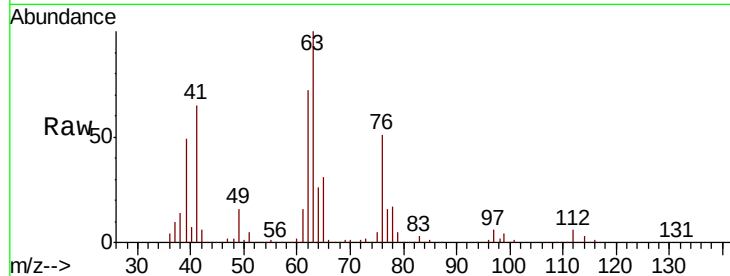




#37  
 1,2-Dichloropropane  
 Concen: 105.403 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

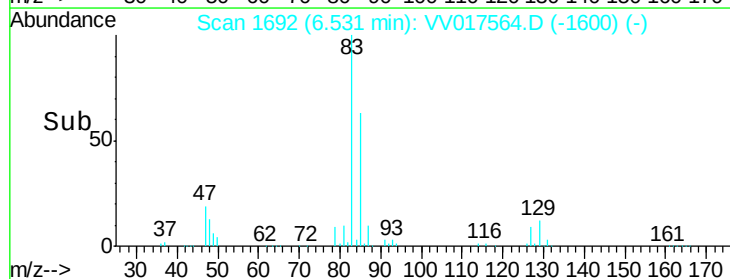
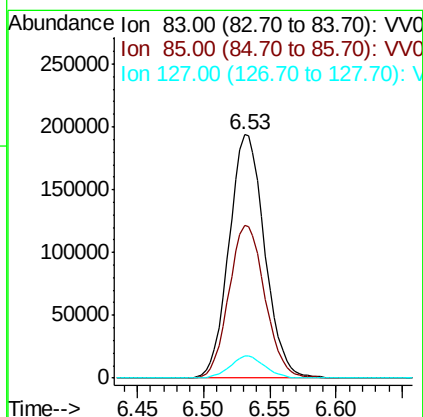
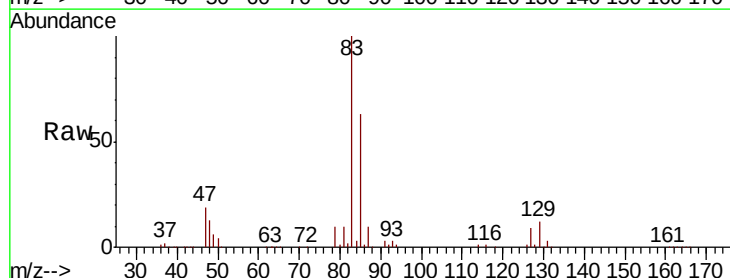
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

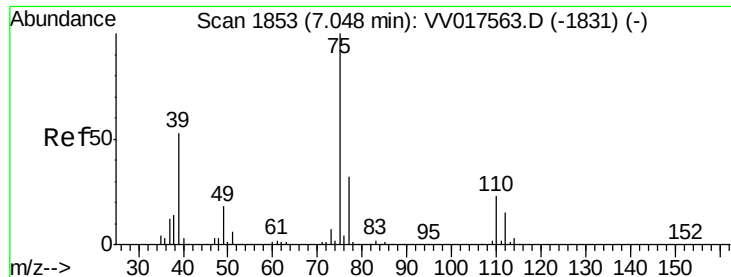
Tot Ion: 63 Resp: 237106  
 Ion Ratio Lower Upper  
 63 100  
 112 5.4 3.8 5.8



#38  
 Bromodichloromethane  
 Concen: 101.667 ug/L  
 RT: 6.53 min Scan# 1692  
 Delta R.T. -0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

Tgt Ion: 83 Resp: 361426  
 Ion Ratio Lower Upper  
 83 100  
 85 62.5 44.4 82.4  
 127 8.9 7.4 11.2



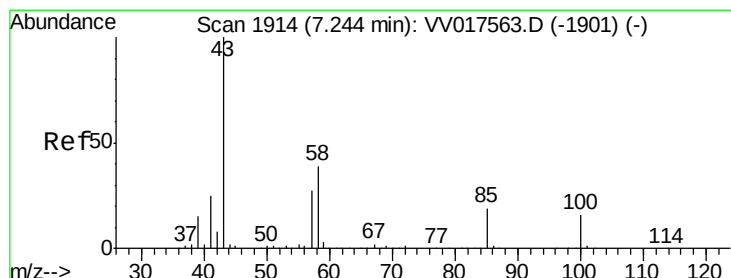
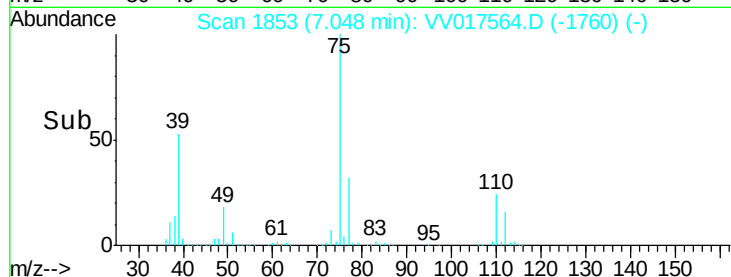
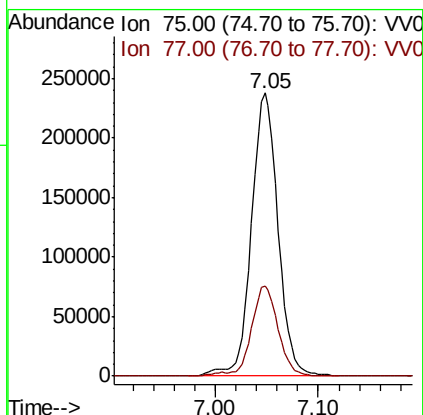
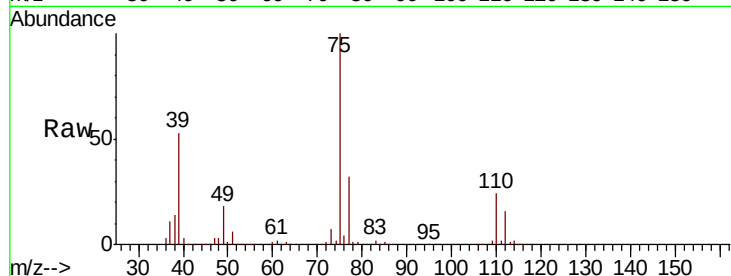


#39

cis-1,3-Dichloropropene  
Concen: 112.842 ug/L  
RT: 7.05 min Scan# 1853  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD10063

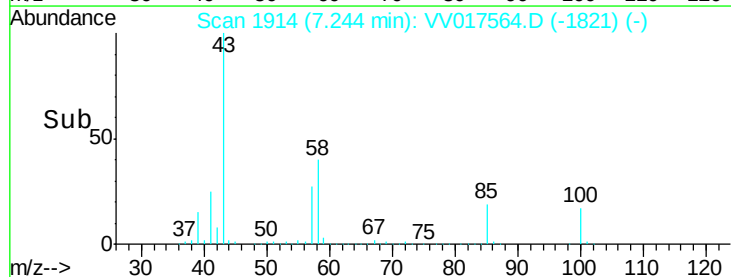
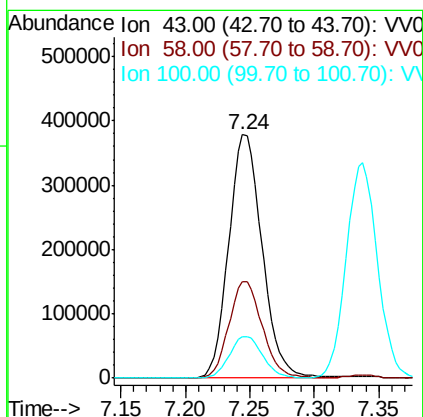
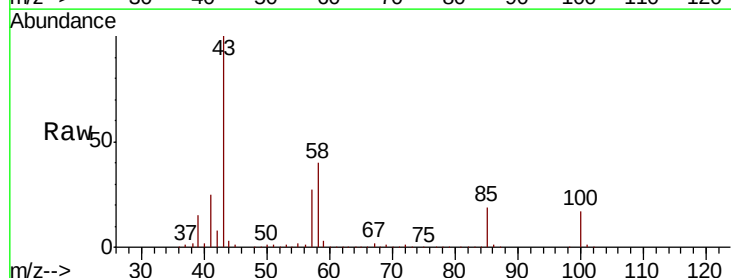
Tot Ion: 75 Resp: 424034  
Ion Ratio Lower Upper  
75 100  
77 32.1 22.2 41.2

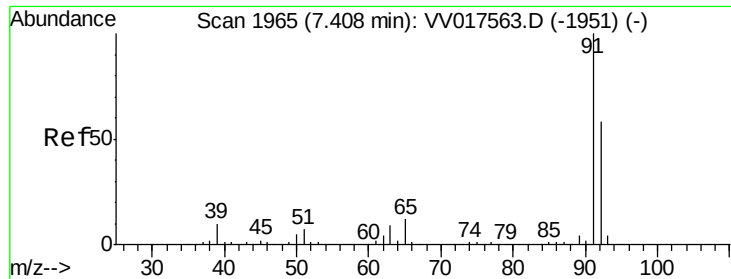


#40

4-Methyl-2-pentanone  
Concen: 218.234 ug/L  
RT: 7.24 min Scan# 1914  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Tgt Ion: 43 Resp: 680023  
Ion Ratio Lower Upper  
43 100  
58 39.6 31.5 47.3  
100 17.2 13.3 19.9





#42

Toluene

Concen: 107.452 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

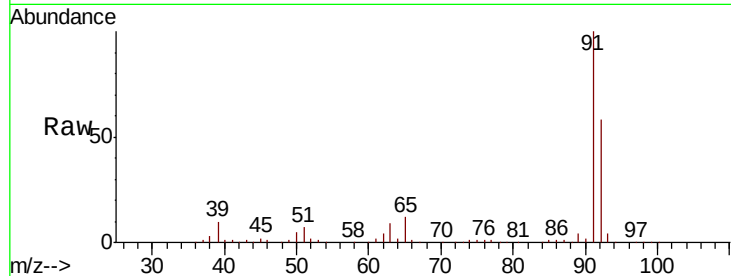
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

Tot Ion: 91 Resp: 1047632

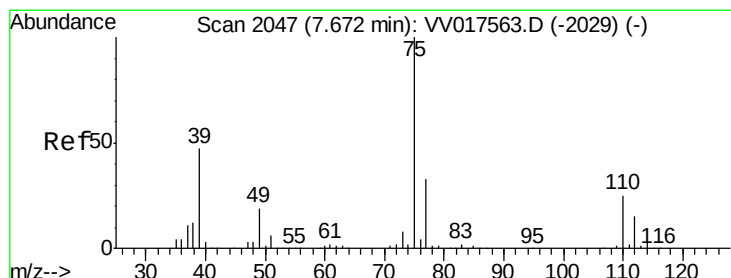
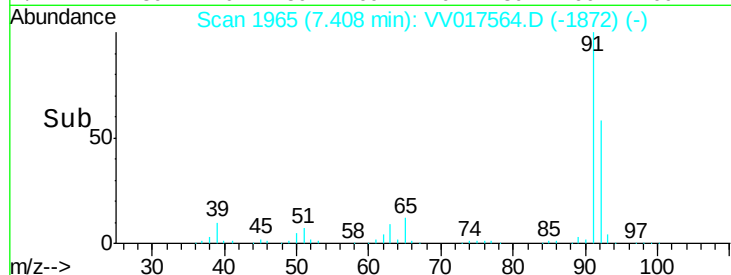
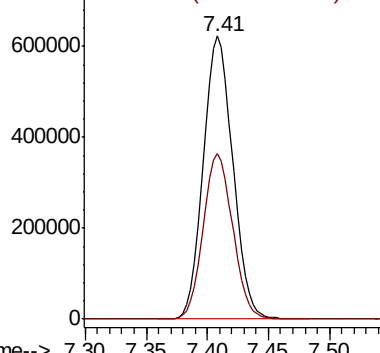
Ion Ratio Lower Upper

91 100

92 58.4 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VV0  
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 107.471 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV017564.D

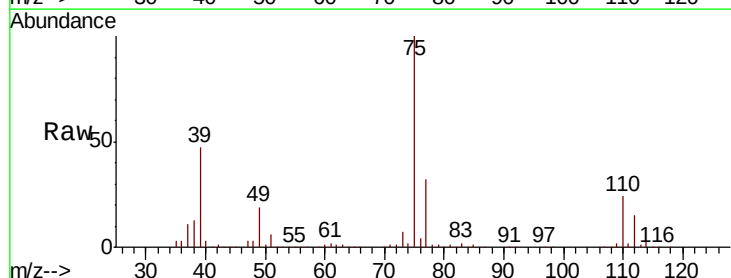
Acq: 21 Jul 2020 14:39

Tgt Ion: 75 Resp: 421825

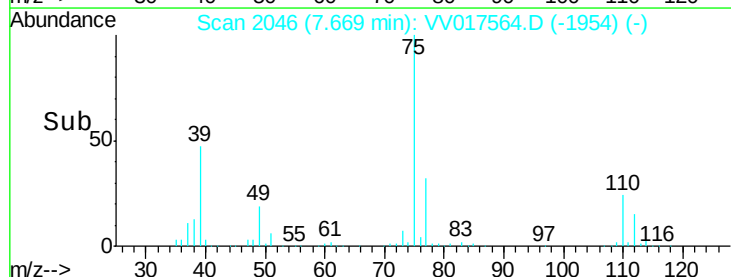
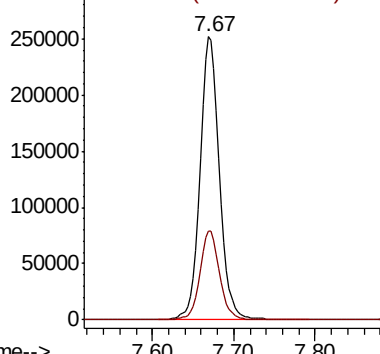
Ion Ratio Lower Upper

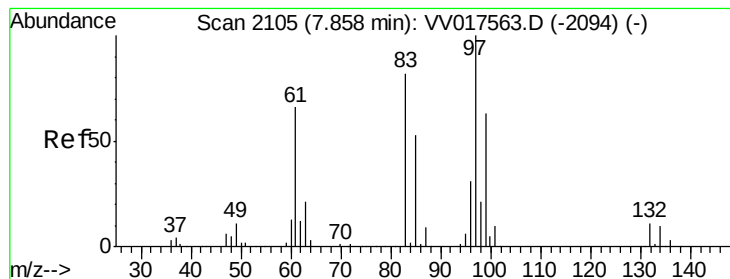
75 100

77 31.6 23.0 42.8



Abundance Ion 75.00 (74.70 to 75.70): VV0  
Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 100.956 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10063

Tot Ion: 97 Resp: 243214

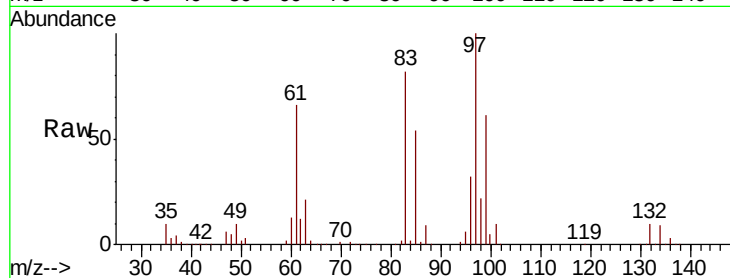
Ion Ratio Lower Upper

97 100

99 61.3 44.2 82.0

83 82.1 57.9 107.5

85 54.0 37.5 69.7

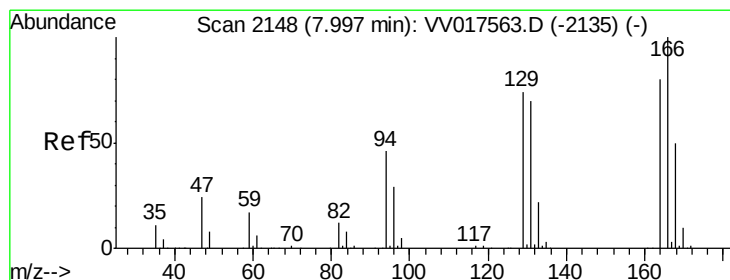
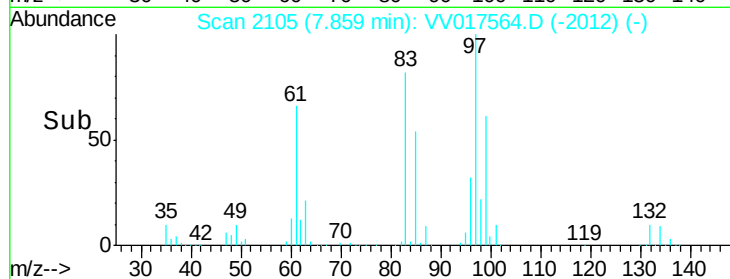
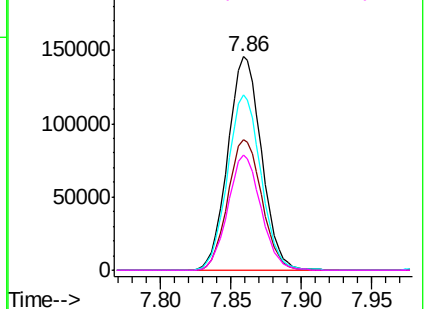


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 105.774 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Tgt Ion: 164 Resp: 223408

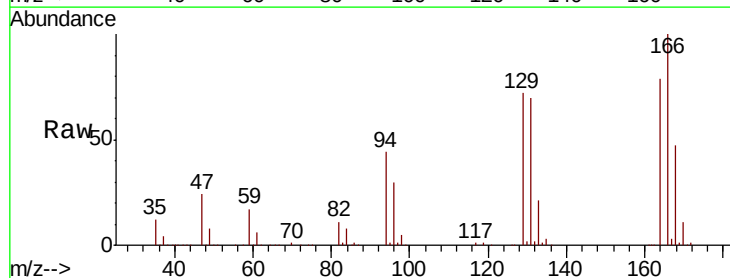
Ion Ratio Lower Upper

164 100

129 91.6 64.3 119.5

131 88.6 61.5 114.1

166 126.8 87.2 162.0

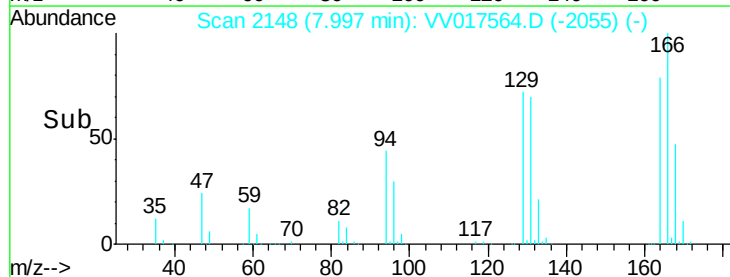
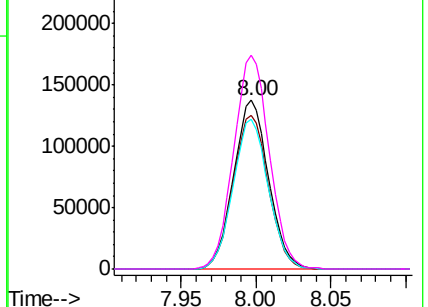


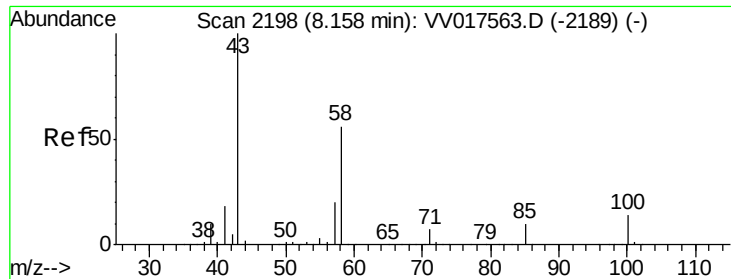
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

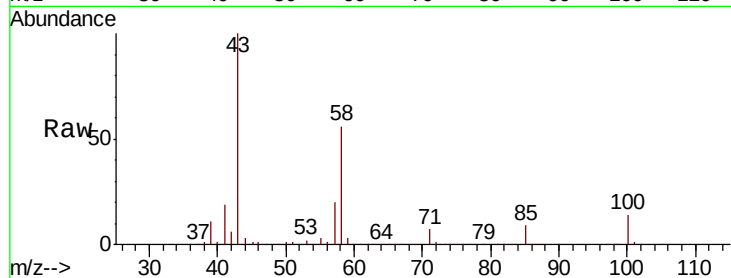




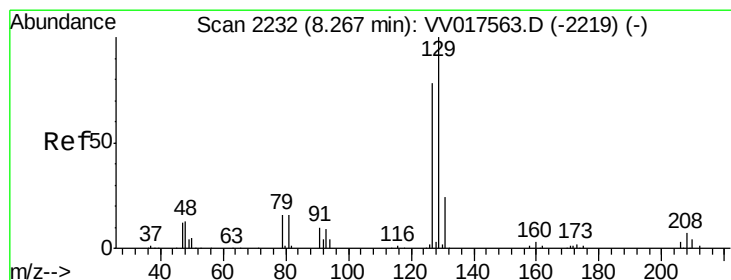
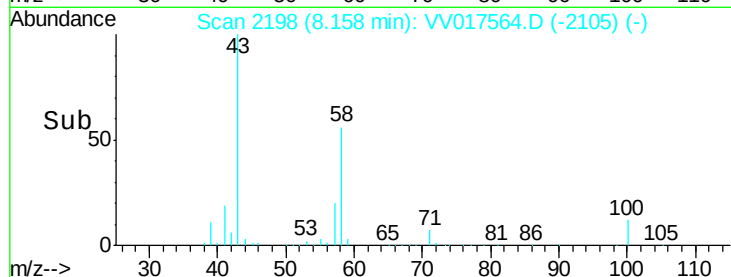
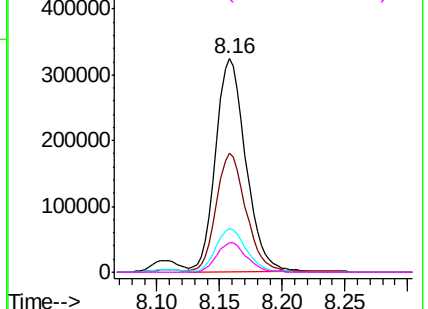
#48  
2-Hexanone  
Concen: 218.000 ug/L  
RT: 8.16 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 541777 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 54.8  | 44.3  | 66.5   |
| 57       | 20.5  | 16.9  | 25.3   |
| 100      | 14.0  | 11.0  | 16.4   |

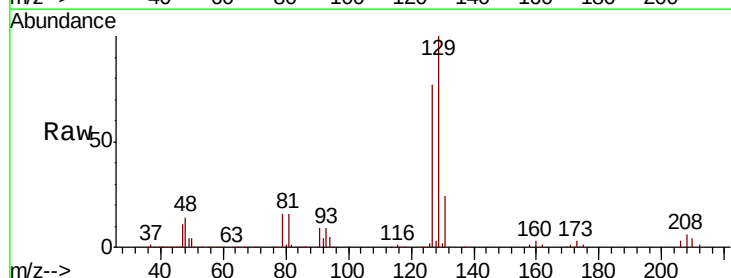


Abundance Ion 43.00 (42.70 to 43.70): VV017563.D (-2189) (-)  
Ion 58.00 (57.70 to 58.70): VV017563.D (-2189) (-)  
Ion 57.00 (56.70 to 57.70): VV017563.D (-2189) (-)  
Ion 100.00 (99.70 to 100.70): VV017563.D (-2189) (-)

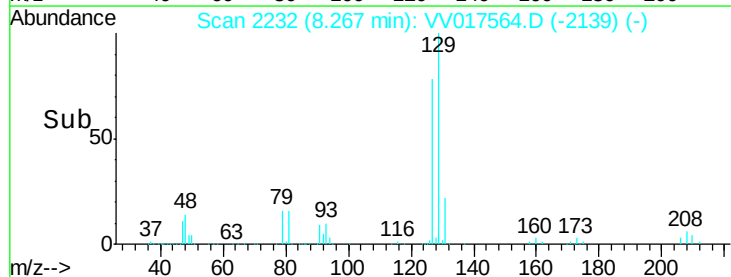
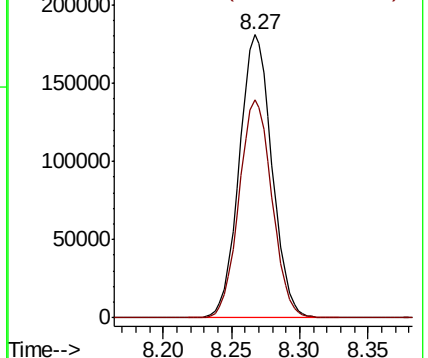


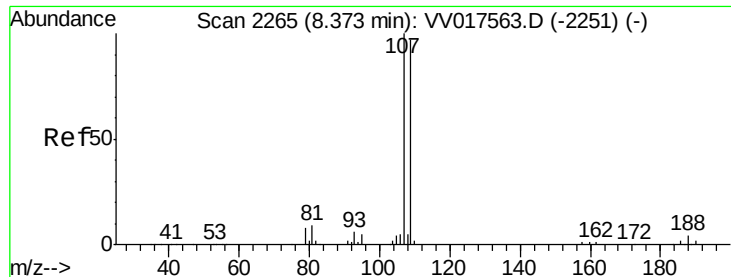
#49  
Dibromochloromethane  
Concen: 100.433 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 300953 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.0  | 54.3  | 100.9  |



Abundance Ion 129.00 (128.70 to 129.70): VV017563.D (-2219) (-)  
Ion 127.00 (126.70 to 127.70): VV017563.D (-2219) (-)

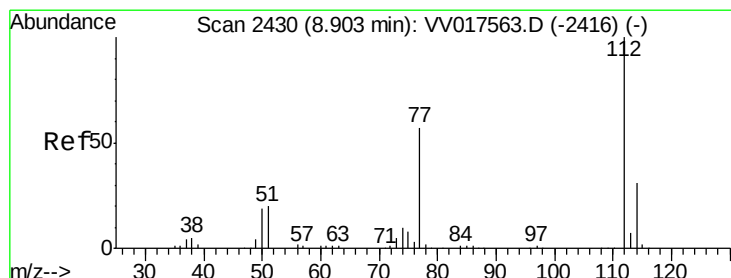
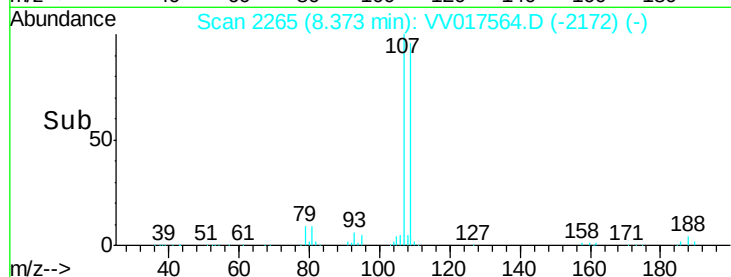
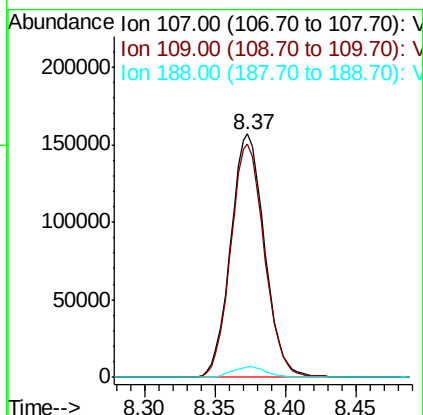
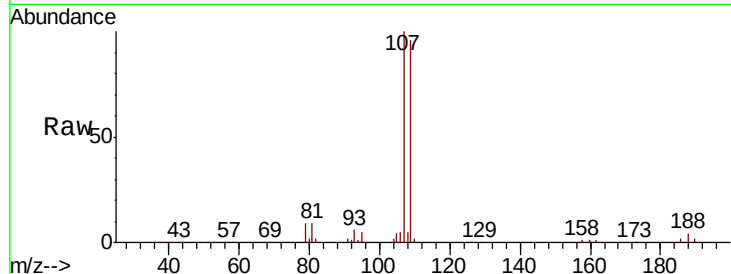




#50  
1,2-Dibromoethane  
Concen: 101.032 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. 0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

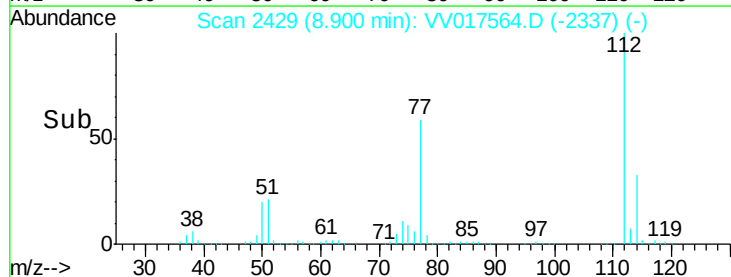
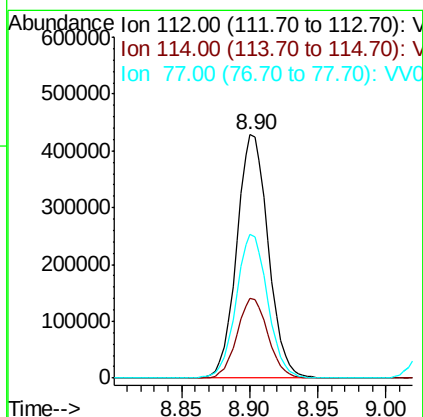
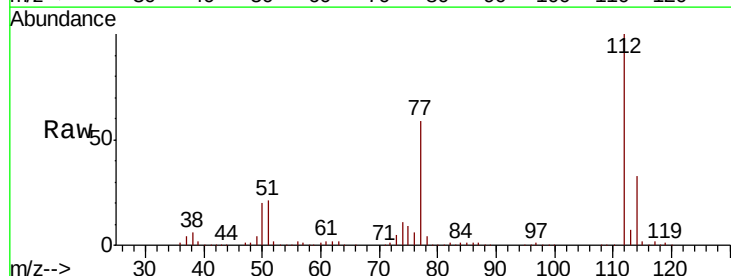
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

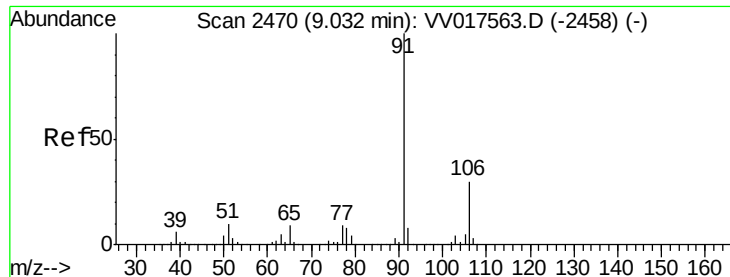
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.8  | 67.7  | 125.7 |
| 188     | 4.3   | 3.5   | 5.3   |



#51  
Chlorobenzene  
Concen: 101.202 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. -0.00 min  
Lab File: VV017564.D  
Acq: 21 Jul 2020 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.5  | 21.9  | 40.7  |
| 77      | 59.1  | 46.1  | 69.1  |





#52

Ethylbenzene

Concen: 104.944 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

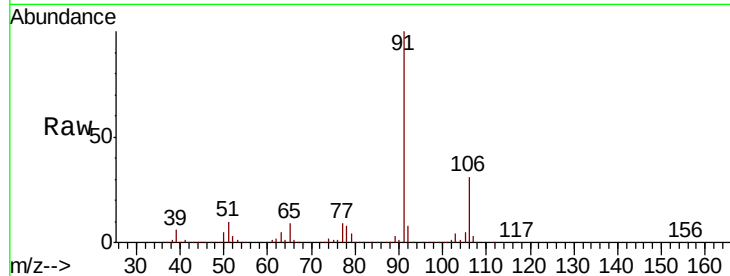
VSTD10063

Tot Ion: 91 Resp: 1196054

Ion Ratio Lower Upper

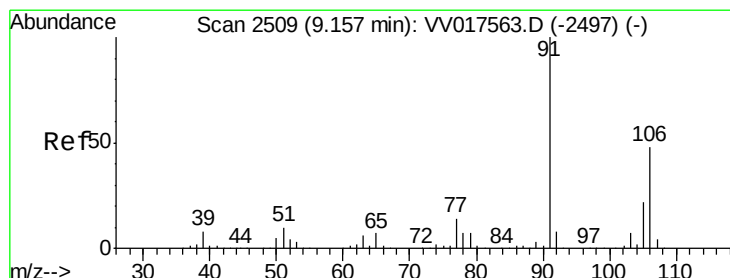
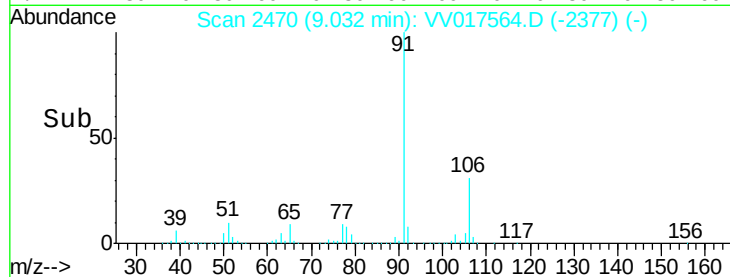
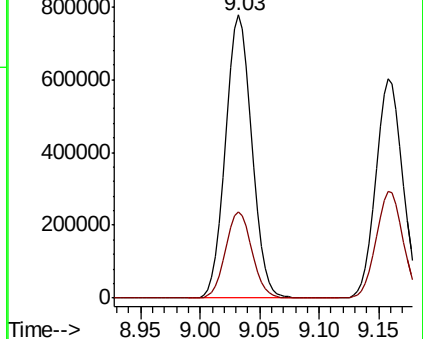
91 100

106 30.6 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VV017563.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV017563.D (-2458) (-)



#53

m,p-Xylene

Concen: 107.848 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV017564.D

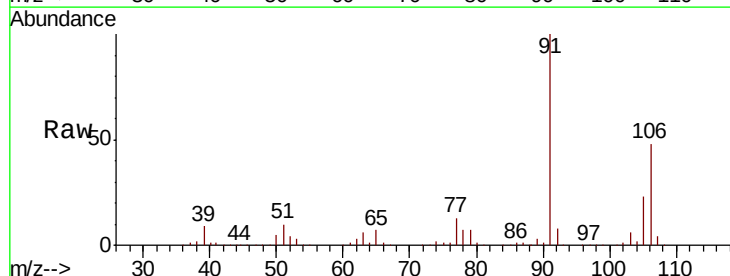
Acq: 21 Jul 2020 14:39

Tgt Ion: 106 Resp: 458855

Ion Ratio Lower Upper

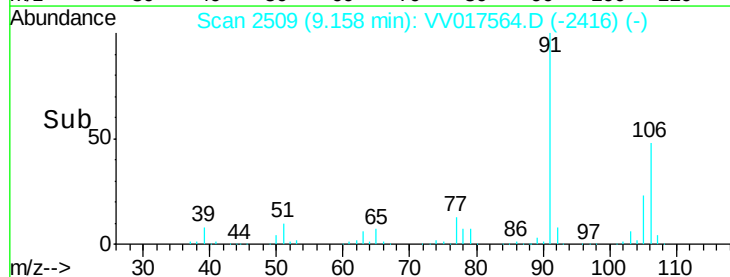
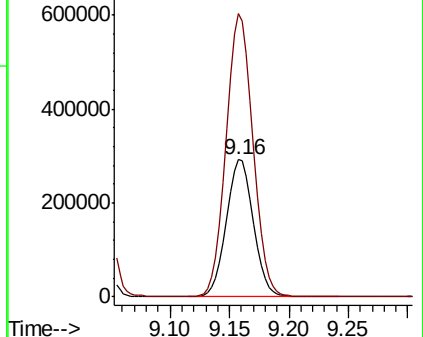
106 100

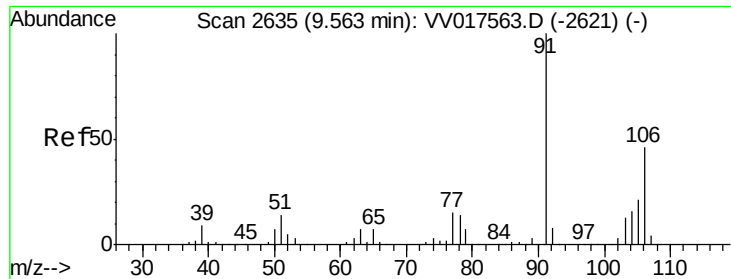
91 206.4 146.2 271.6



Abundance Ion 106.00 (105.70 to 106.70): VV017563.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV017563.D (-2497) (-)





#54

o-xylene

Concen: 106.771 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

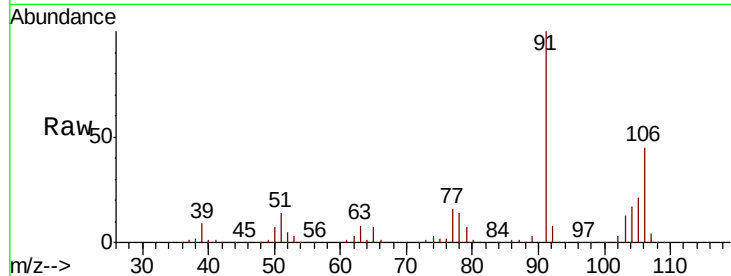
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10063

Tot Ion:106 Resp: 441392

Ion Ratio Lower Upper

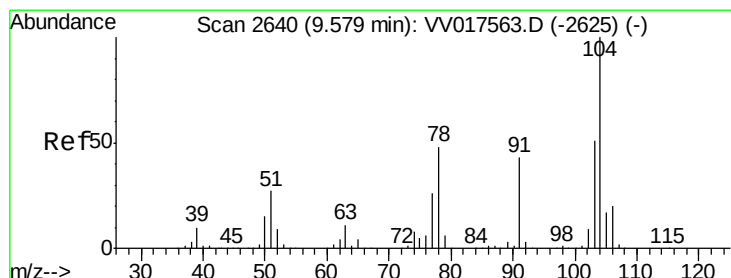
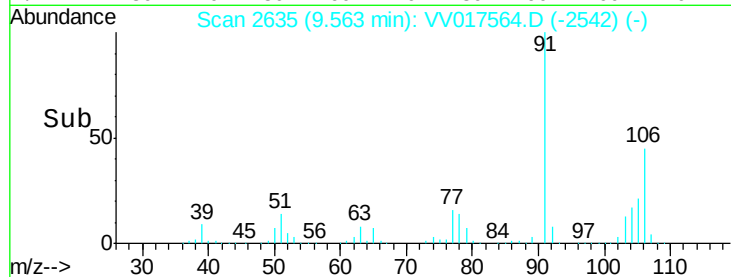
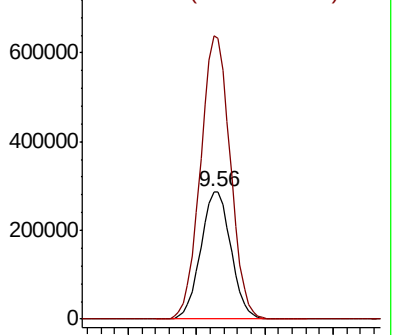
106 100

91 222.2 153.6 285.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 108.509 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV017564.D

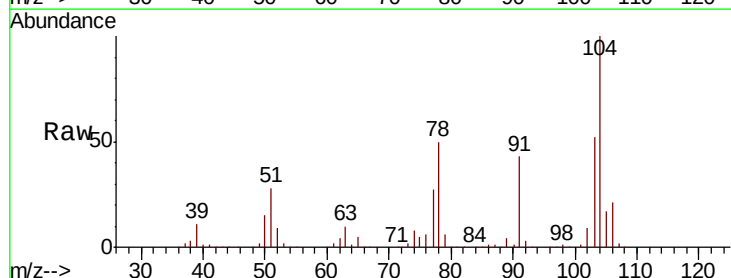
Acq: 21 Jul 2020 14:39

Tgt Ion:104 Resp: 764553

Ion Ratio Lower Upper

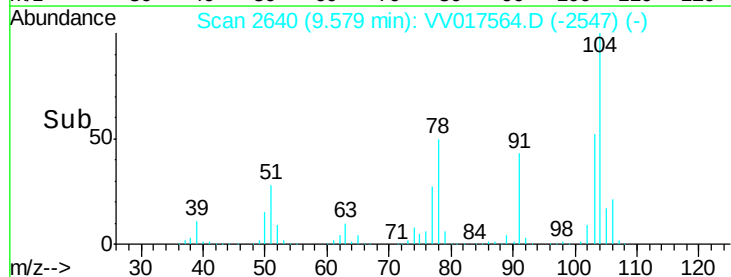
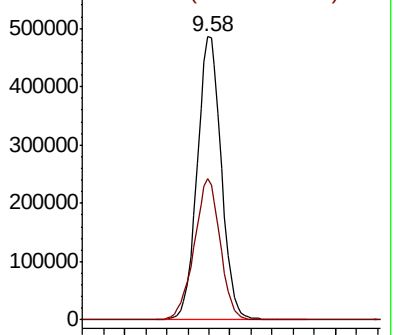
104 100

78 50.0 33.7 62.7

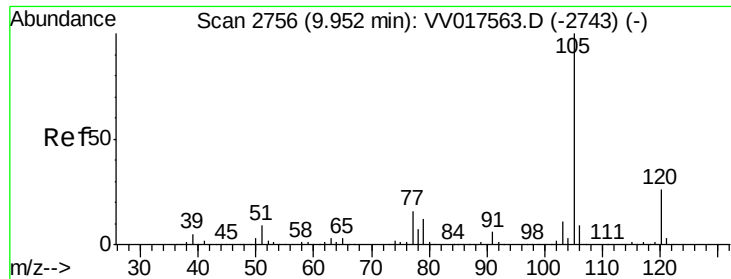


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0







#56

Isopropylbenzene

Concen: 108.908 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10063

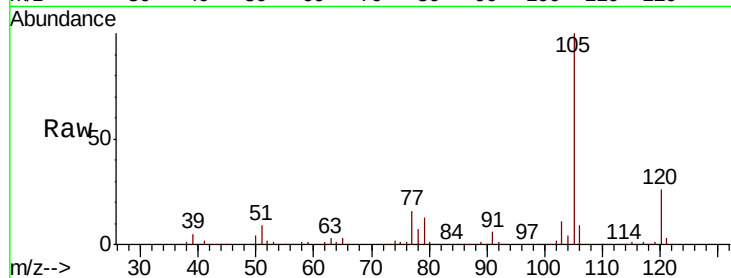
Tot Ion:105 Resp: 1214297

Ion Ratio Lower Upper

105 100

120 26.3 20.8 31.2

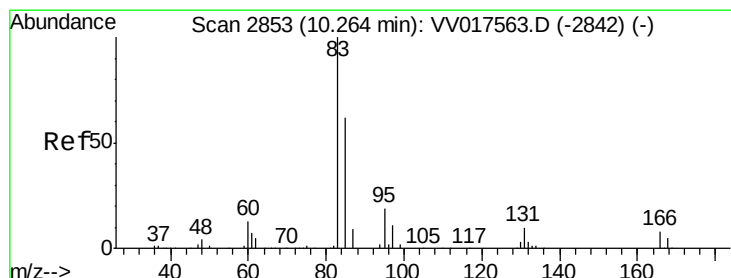
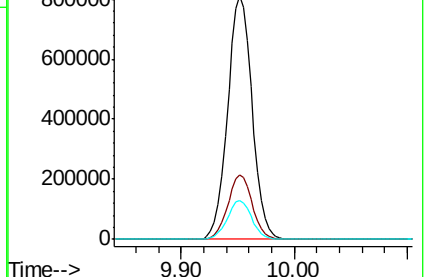
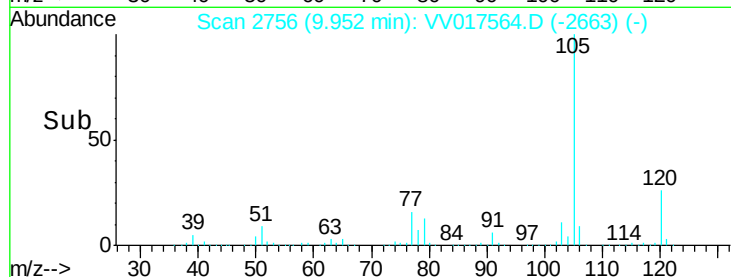
77 15.9 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 105.430 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

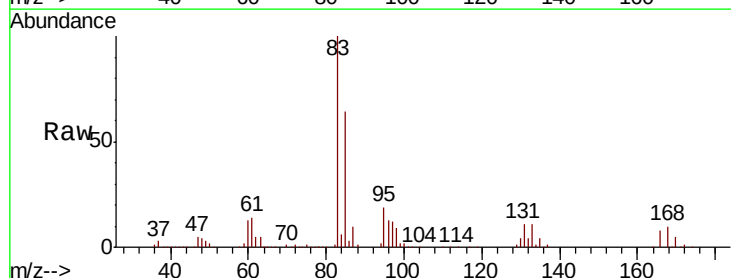
Tgt Ion: 83 Resp: 381028

Ion Ratio Lower Upper

83 100

85 64.4 44.5 82.7

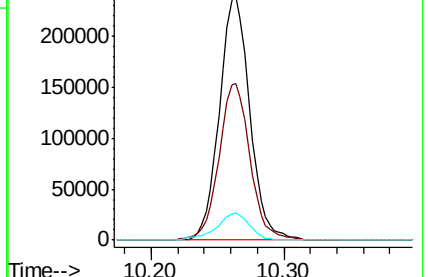
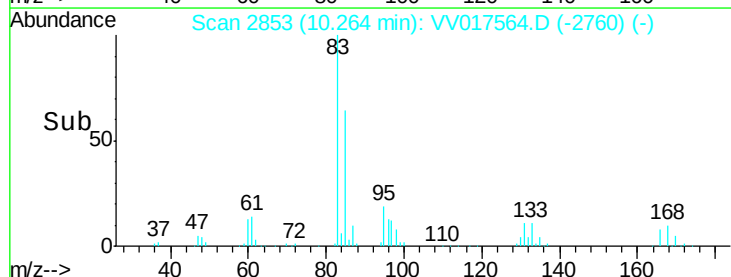
131 11.1 8.9 13.3

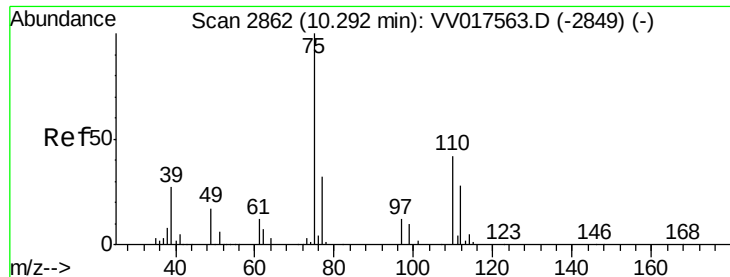


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 103.126 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

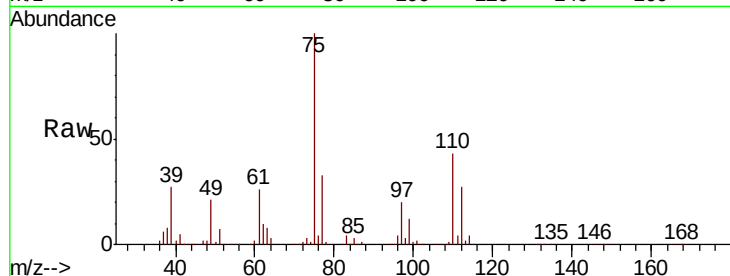
VSTD10063

Tot Ion: 75 Resp: 317145

Ion Ratio Lower Upper

75 100

77 32.1 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV017563.D (-2849) (-)

Ion 77.00 (76.70 to 77.70): VV017563.D (-2849) (-)

10.30

200000

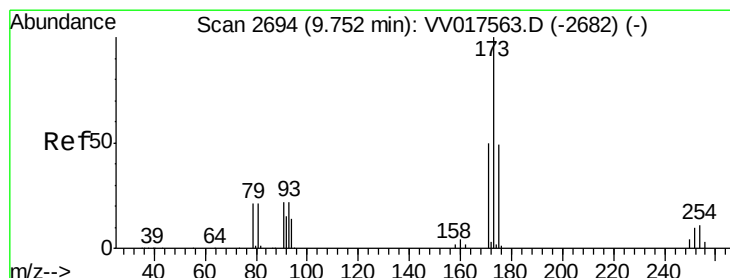
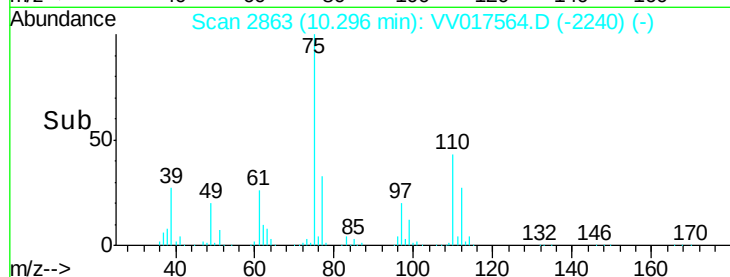
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 99.208 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

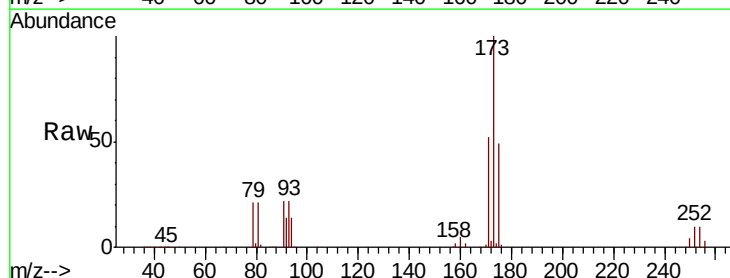
Tgt Ion: 173 Resp: 235598

Ion Ratio Lower Upper

173 100

175 48.3 38.5 57.7

254 10.0 8.3 12.5



Abundance Ion 173.00 (172.70 to 173.70): VV017563.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV017563.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV017563.D (-2682) (-)

9.75

200000

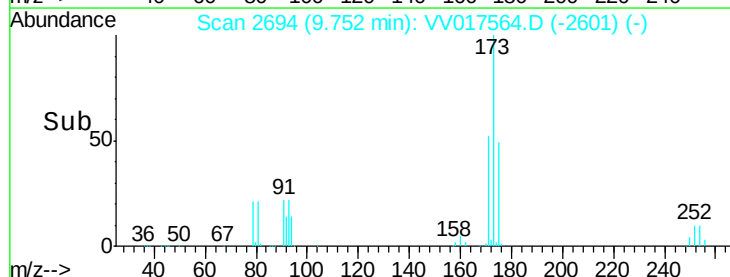
150000

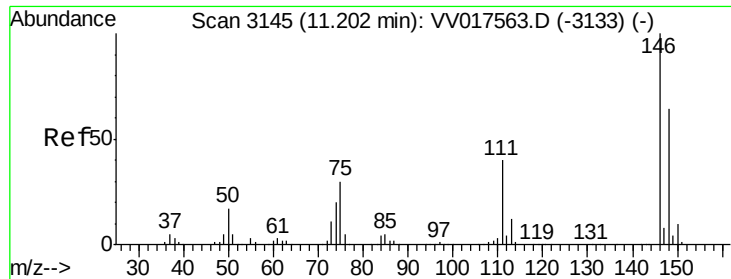
100000

50000

0

Time-->

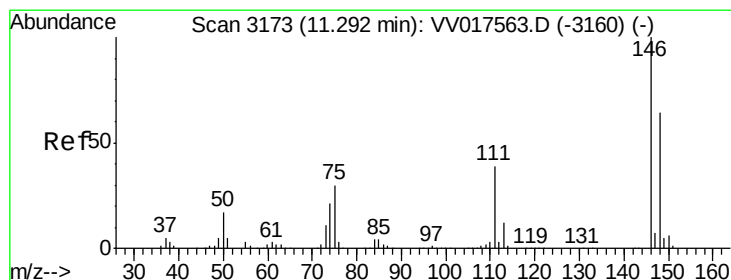
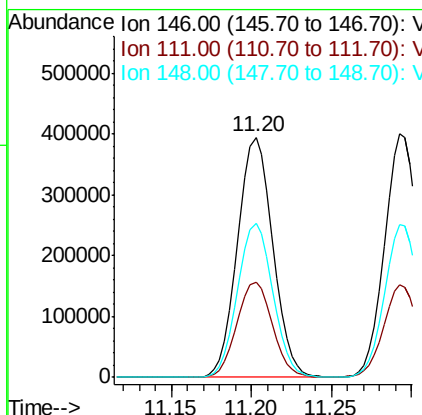
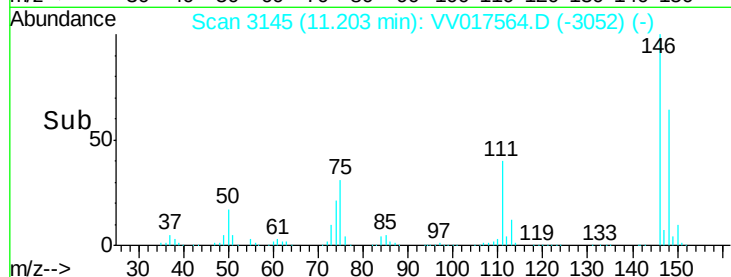
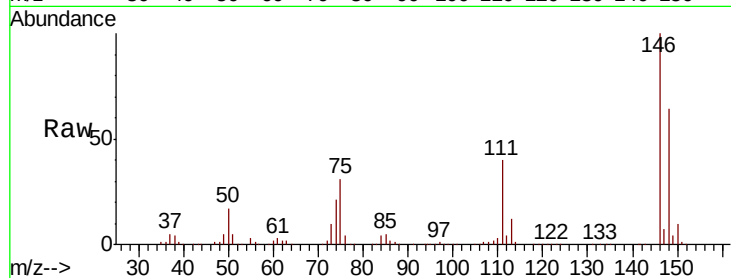




#62  
 1,3-Dichlorobenzene  
 Concen: 100.390 ug/L  
 RT: 11.20 min Scan# 3145  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

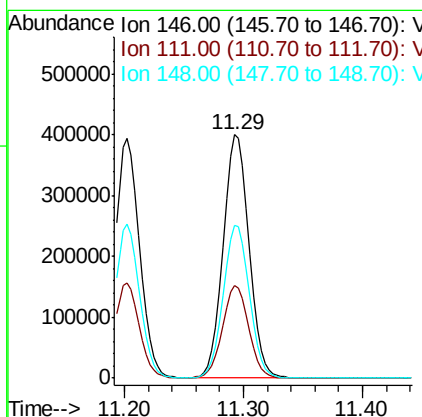
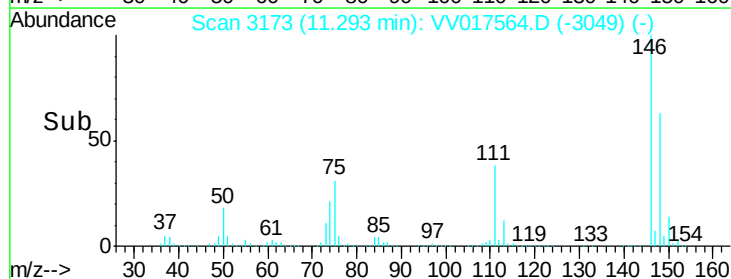
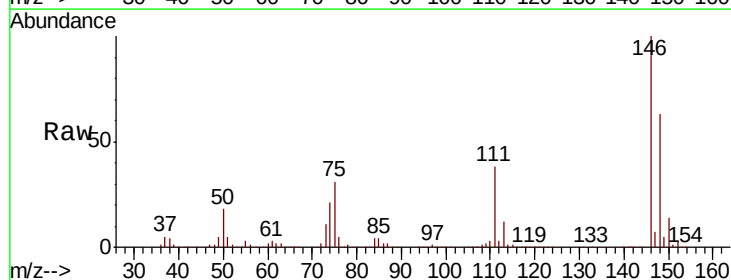
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

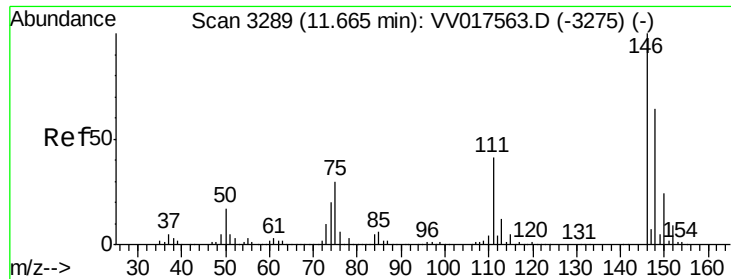
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.6  | 28.2  | 52.4  |
| 148     | 64.0  | 44.7  | 82.9  |



#63  
 1,4-Dichlorobenzene  
 Concen: 97.800 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 27.3  | 50.7  |
| 148     | 62.9  | 45.1  | 83.9  |

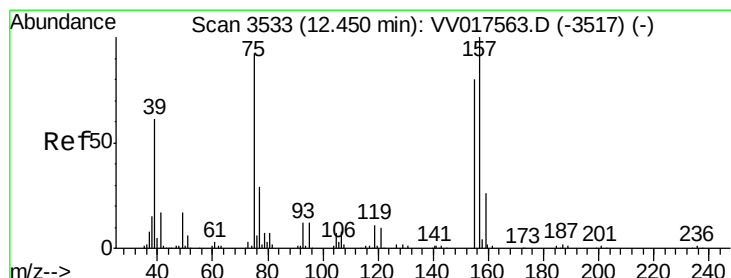
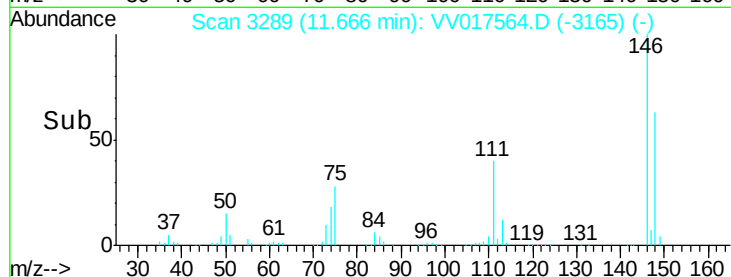
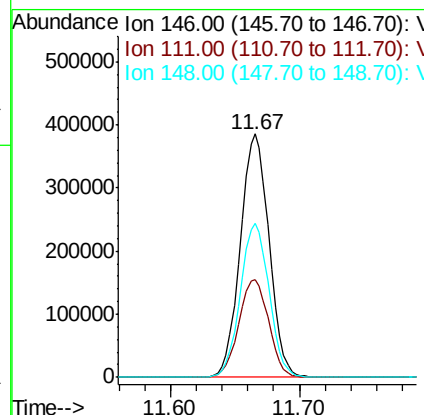
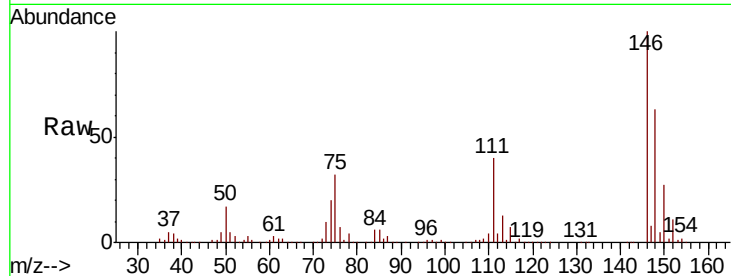




#65  
 1,2-Dichlorobenzene  
 Concen: 97.426 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

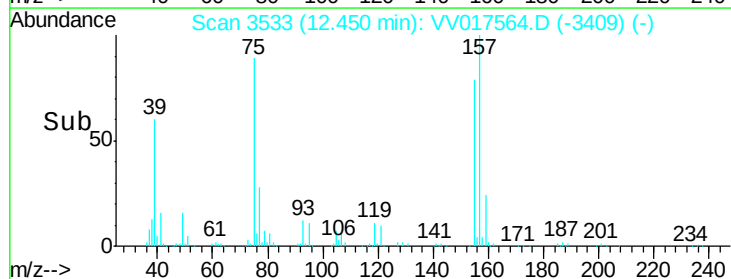
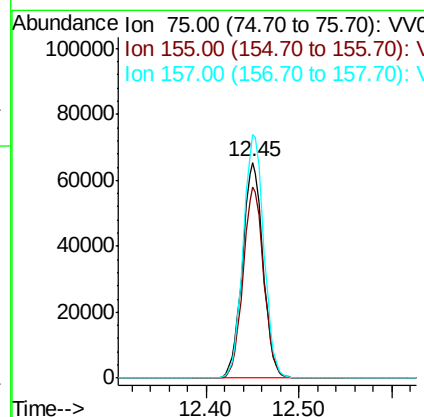
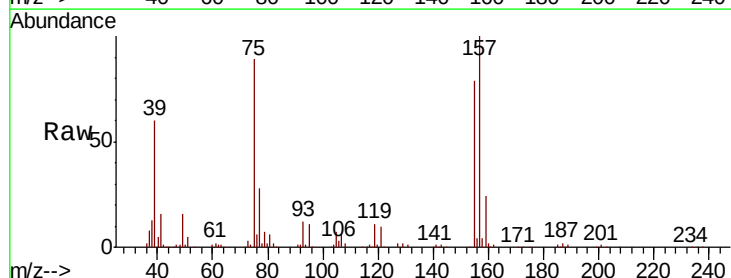
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

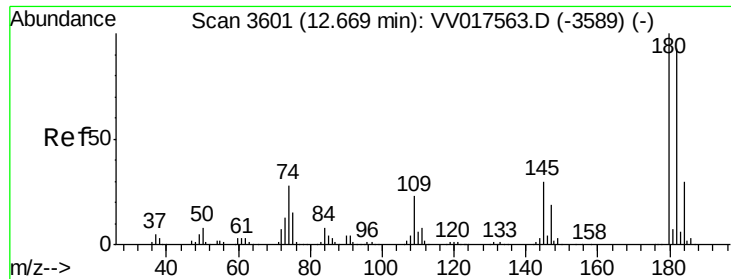
Tot Ion:146 Resp: 596593  
 Ion Ratio Lower Upper  
 146 100  
 111 40.2 32.9 49.3  
 148 63.2 51.0 76.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 91.387 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

Tgt Ion: 75 Resp: 101549  
 Ion Ratio Lower Upper  
 75 100  
 155 88.7 69.2 103.8  
 157 112.7 86.9 130.3

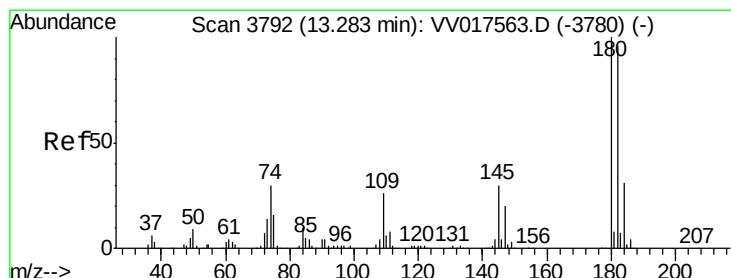
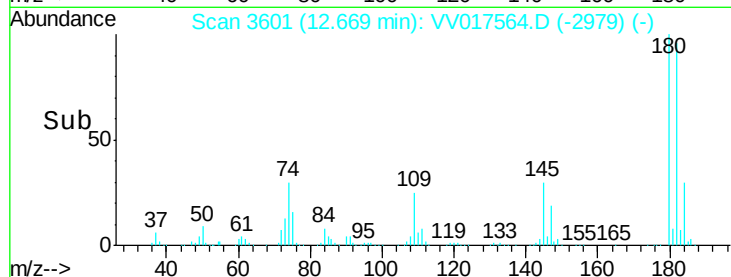
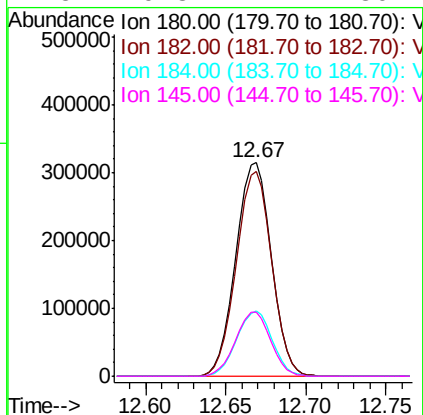
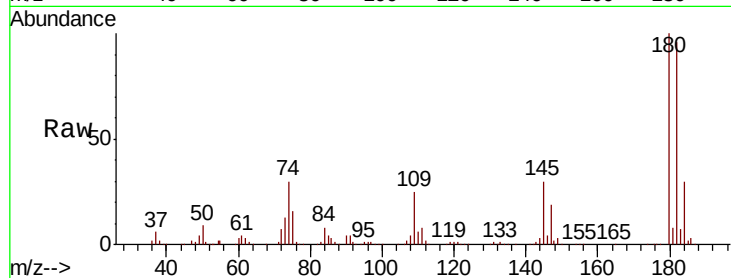




#67  
 1,3,5-Trichlorobenzene  
 Concen: 100.944 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

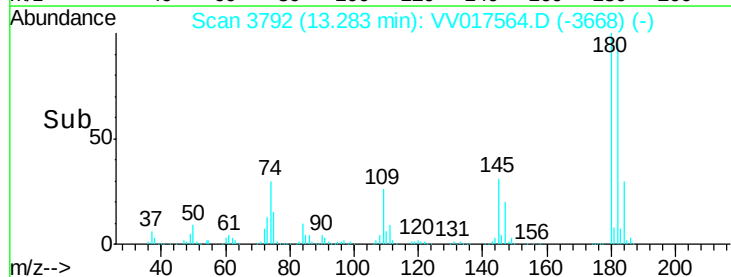
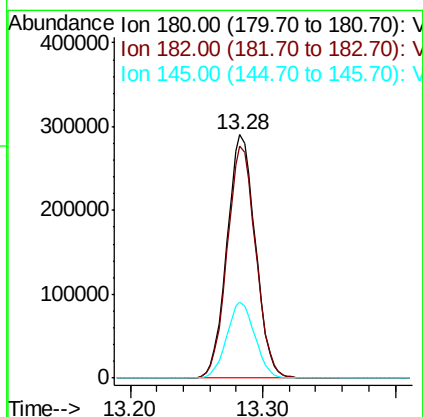
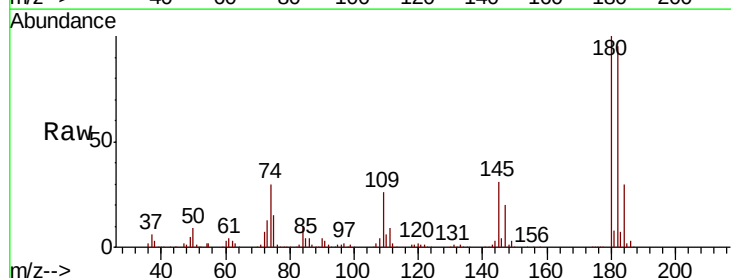
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10063

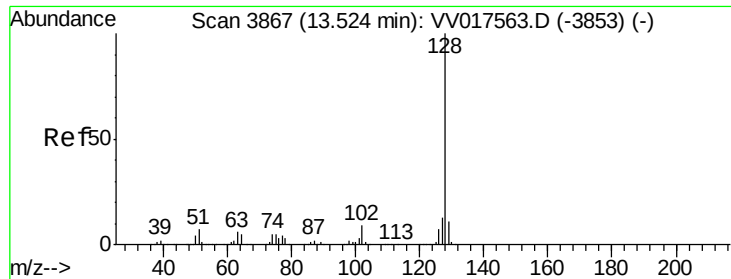
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 76.7  | 115.1 |
| 184     | 30.4  | 24.5  | 36.7  |
| 145     | 29.8  | 24.2  | 36.2  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 102.470 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV017564.D  
 Acq: 21 Jul 2020 14:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 76.2  | 114.4 |
| 145     | 30.8  | 24.1  | 36.1  |





#69

Naphthalene

Concen: 106.130 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10063

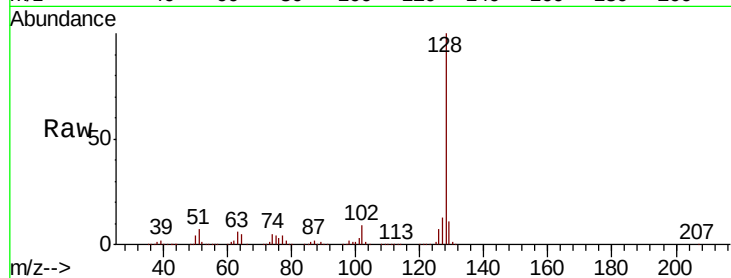
Tot Ion:128 Resp: 1263335

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

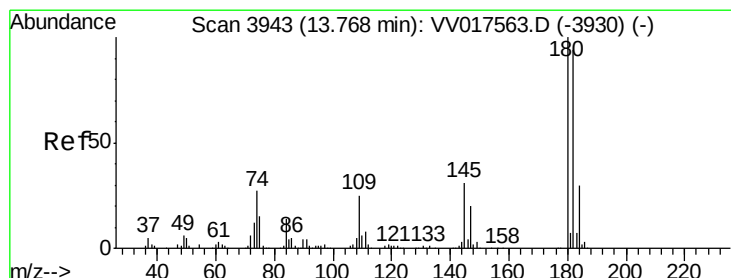
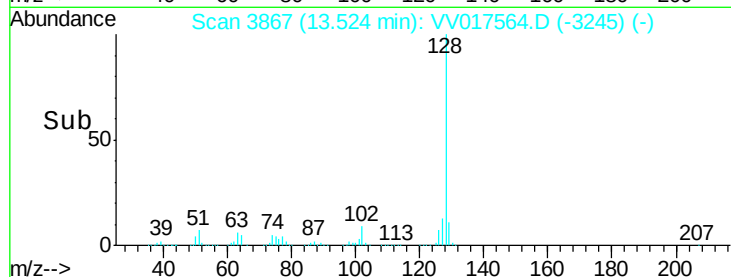
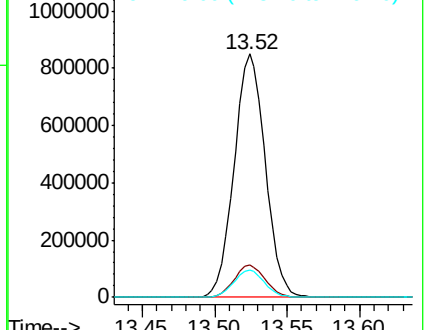
129 11.0 8.7 13.1



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: 100.458 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV017564.D

Acq: 21 Jul 2020 14:39

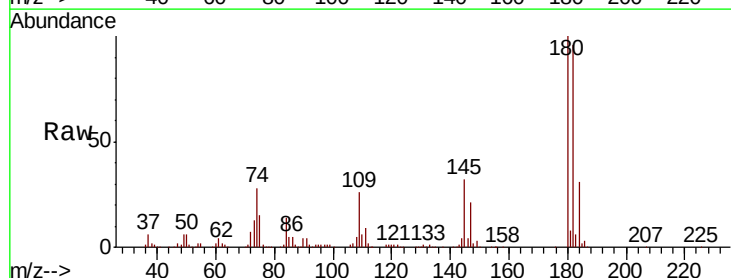
Tgt Ion:180 Resp: 421865

Ion Ratio Lower Upper

180 100

182 95.7 75.8 113.8

145 32.8 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

