

Data File : VV008732.D  
Acq On : 28 Nov 2018 12:58  
Operator : SY/MD  
Sample : VSTD00163  
Misc : 25.0 mL/MSVOA\_V/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

Quant Time: Nov 29 02:07:03 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 29 02:03:58 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 169469   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 152426   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 68387    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 9515  | 1.18 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.59  | 69  | 7739  | 1.20 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.14  | 63  | 18879 | 1.18 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.98  | 46  | 26590 | 9.85 | ug/L | 0.02 |
| 24) Chloroform-d               | 4.41  | 84  | 22413 | 1.06 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 11611 | 1.10 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 46381 | 1.13 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 14570 | 1.12 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 42372 | 1.10 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 4626  | 0.94 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 17177 | 7.93 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 9103  | 1.01 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 13879 | 1.10 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 13809 | 0.978 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 11041 | 0.937 ug/L   | 92     |
| 5) Vinyl chloride              | 1.33 | 62  | 10804 | 0.989 ug/L   | 98     |
| 6) Bromomethane                | 1.54 | 94  | 6790  | 0.998 ug/L   | 98     |
| 8) Chloroethane                | 1.60 | 64  | 6418  | 1.028 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 15317 | 1.005 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 9257  | 1.048 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 7967  | 0.991 ug/L   | 95     |
| 13) Acetone                    | 2.23 | 43  | 12677 | 9.153 ug/L   | 65     |
| 14) Carbon disulfide           | 2.32 | 76  | 24031 | 0.960 ug/L   | 99     |
| 15) Methyl Acetate             | 2.48 | 43  | 4010  | 1.146 ug/L # | 78     |
| 16) Methylene chloride         | 2.54 | 84  | 9774  | 1.014 ug/L   | 86     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 19127 | 0.917 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 8960  | 1.027 ug/L   | 94     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 19334 | 0.902 ug/L   | 92     |
| 21) 2-Butanone                 | 4.07 | 43  | 26216 | 8.507 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 12034 | 0.940 ug/L   | 98     |
| 23) Bromochloromethane         | 4.30 | 128 | 4962  | 1.002 ug/L   | 99     |
| 25) Chloroform                 | 4.43 | 83  | 20917 | 0.779 ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 11907 | 0.888 ug/L   | 96     |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 16272 | 0.851 ug/L   | 96     |
| 30) Cyclohexane                | 4.72 | 56  | 18038 | 0.856 ug/L   | 98     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 13346 | 0.824 ug/L   | 95     |
| 33) Benzene                    | 5.15 | 78  | 43121 | 0.901 ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 12541 | 0.979 ug/L   | 98     |
| 35) Methylcyclohexane          | 6.17 | 83  | 18499 | 0.863 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 10967 | 0.875 ug/L   | 98     |
| 38) Bromodichloromethane       | 6.56 | 83  | 12218 | 0.803 ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 13534 | 0.799 ug/L   | 99     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 55748 | 7.726 ug/L   | 98     |

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Instrument :  
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ClientSampleId :  
VSTD00163

Quant Time: Nov 29 02:07:03 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 29 02:03:58 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                    | 7.43  | 91   | 43999    | 0.881 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 10445    | 0.771 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 7082     | 0.883 | ug/L   | 91       |
| 47) Tetrachloroethene          | 8.02  | 164  | 9088     | 0.971 | ug/L   | 94       |
| 48) 2-Hexanone                 | 8.20  | 43   | 36657    | 7.534 | ug/L   | 95       |
| 49) Dibromochloromethane       | 8.29  | 129  | 6887     | 0.766 | ug/L   | 95       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 6108     | 0.845 | ug/L # | 98       |
| 51) Chlorobenzene              | 8.93  | 112  | 29730    | 0.953 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.06  | 91   | 47273    | 0.861 | ug/L   | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 17325    | 0.849 | ug/L   | 98       |
| 54) o-xylene                   | 9.59  | 106  | 16797    | 0.848 | ug/L   | 93       |
| 55) Styrene                    | 9.61  | 104  | 26300    | 0.822 | ug/L   | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 43960    | 0.829 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 7404     | 0.795 | ug/L # | 97       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 6145     | 0.867 | ug/L   | 99       |
| 61) Bromoform                  | 9.78  | 173  | 3452     | 0.802 | ug/L   | 91       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 21307    | 0.964 | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 22520    | 1.027 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 20605    | 0.978 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 979      | 0.743 | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 14423    | 0.893 | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 9683     | 0.754 | ug/L   | 97       |
| 69) Naphthalene                | 13.56 | 128  | 12416    | 0.615 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 8929     | 0.755 | ug/L   | 94       |

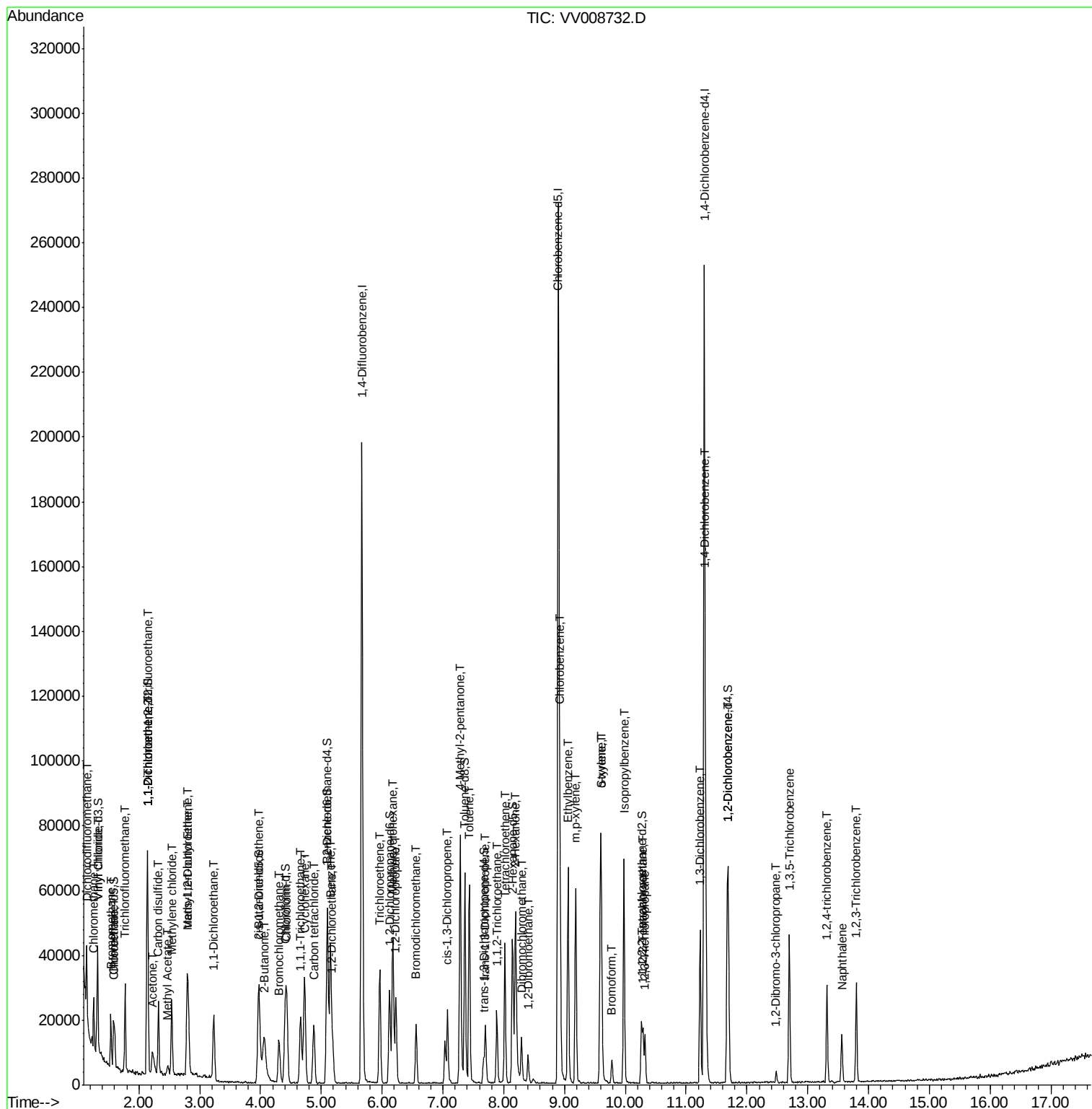
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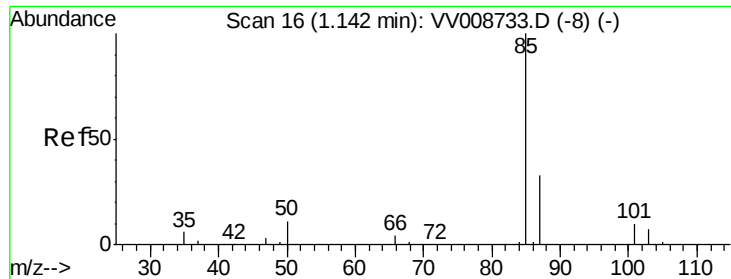
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```
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MSVOA\_V  
**ClientSampleId :**  
VSTD00163

Quant Time: Nov 29 02:07:03 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
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#2

Dichlorodifluoromethane

Concen: 0.978 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

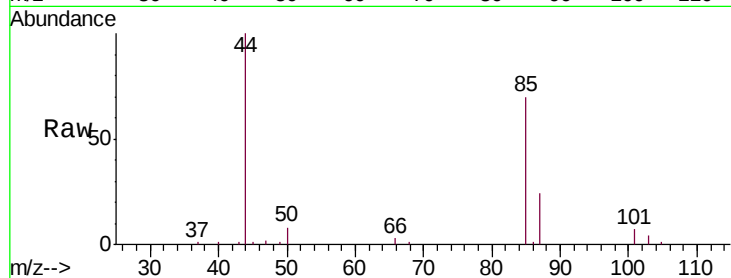
VSTD00163

Tgt Ion: 85 Resp: 13809

Ion Ratio Lower Upper

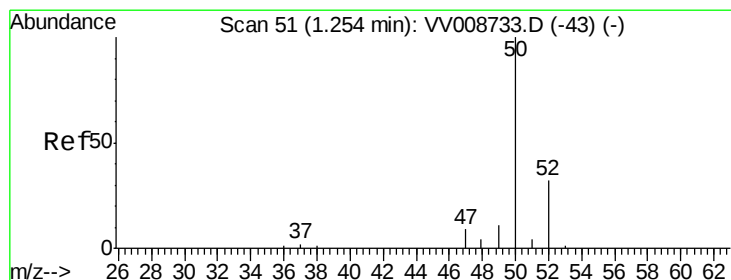
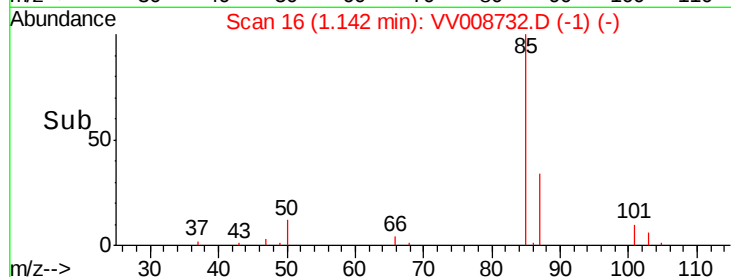
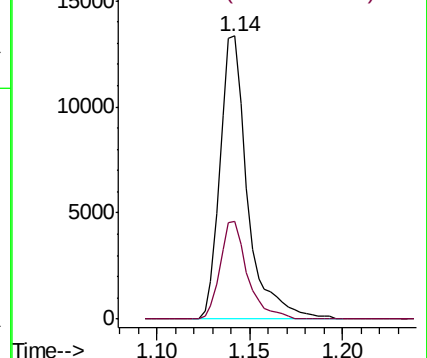
85 100

87 33.9 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV008733.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008733.D (-8) (-)



#3

Chloromethane

Concen: 0.937 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008732.D

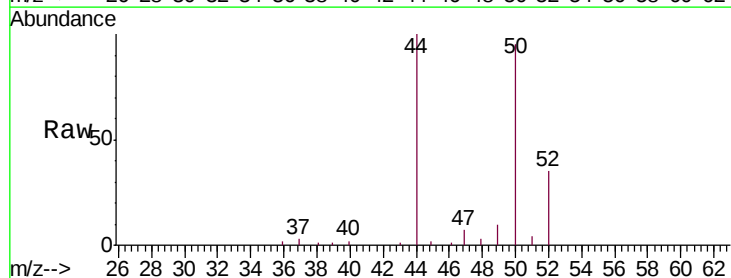
Acq: 28 Nov 2018 12:58

Tgt Ion: 50 Resp: 11041

Ion Ratio Lower Upper

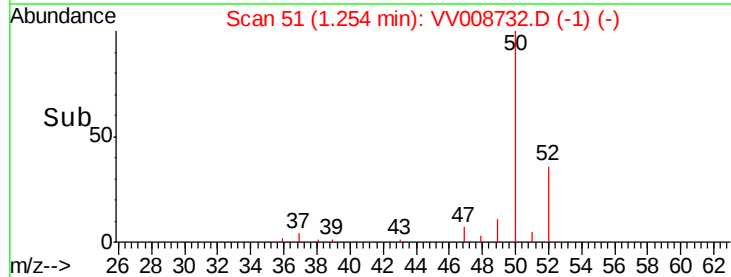
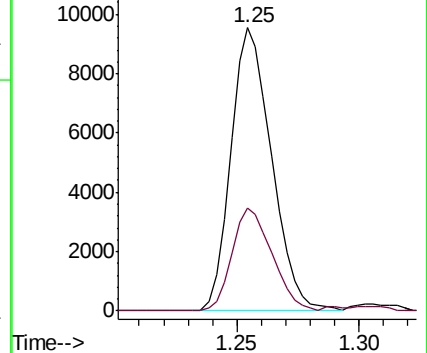
50 100

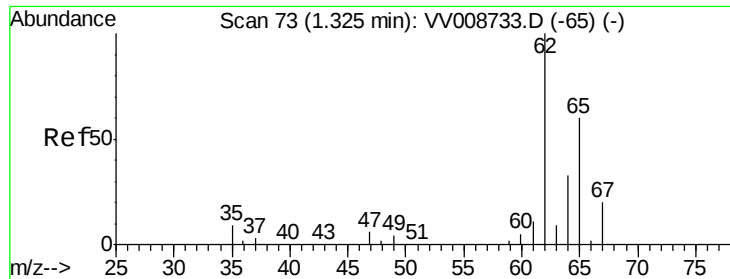
52 36.5 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV008733.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008733.D (-43) (-)





#5

Vinyl chloride

Concen: 0.989 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

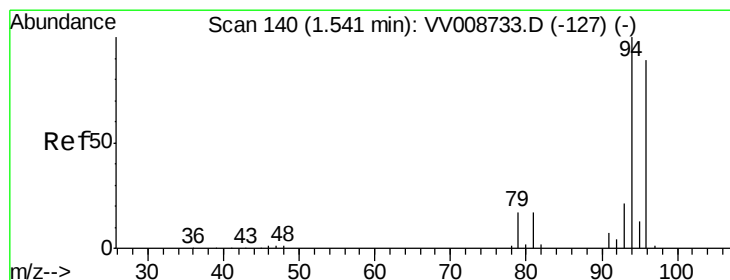
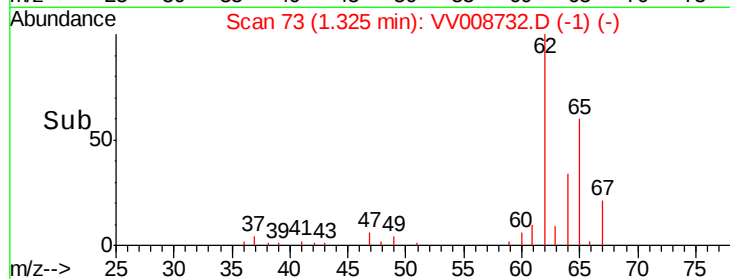
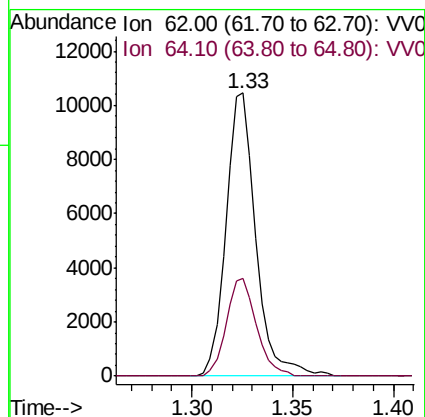
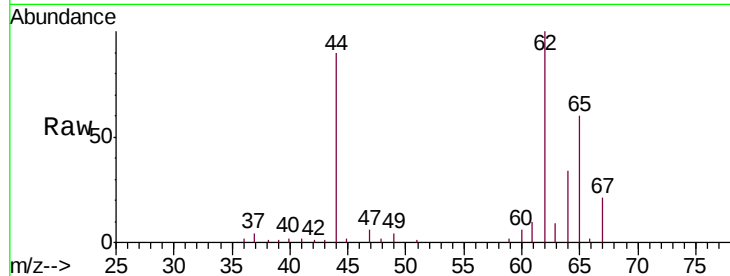
VSTD00163

Tgt Ion: 62 Resp: 10804

Ion Ratio Lower Upper

62 100

64 34.3 23.3 43.3



#6

Bromomethane

Concen: 0.998 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008732.D

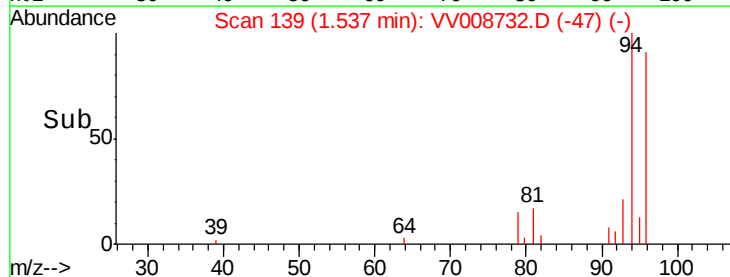
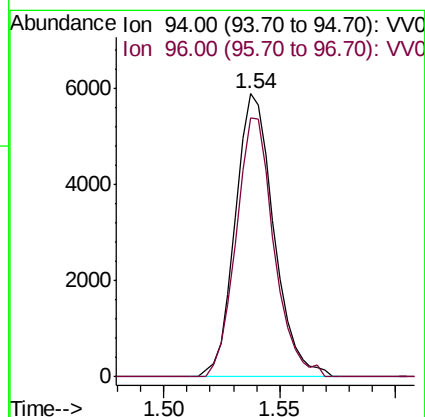
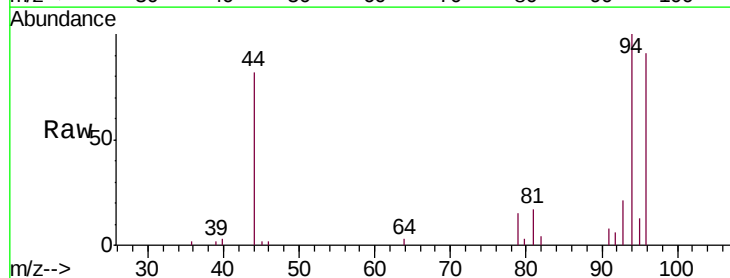
Acq: 28 Nov 2018 12:58

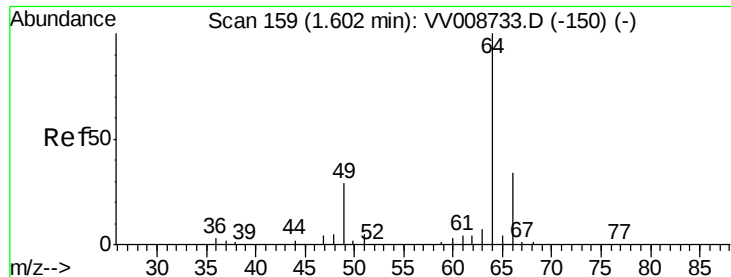
Tgt Ion: 94 Resp: 6790

Ion Ratio Lower Upper

94 100

96 91.4 62.6 116.2

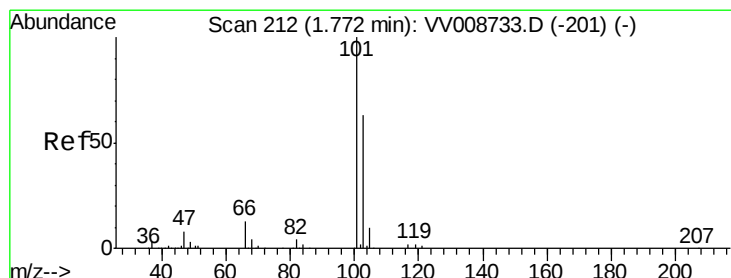
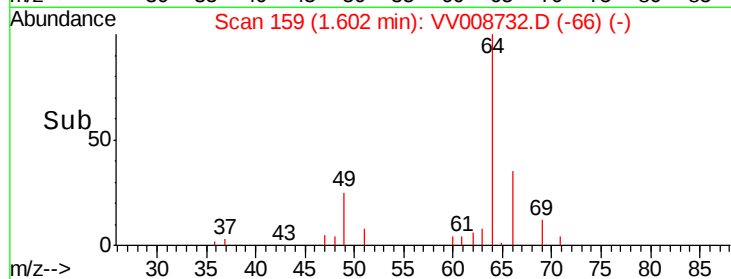
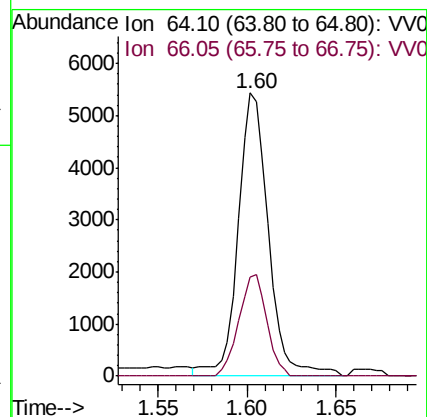
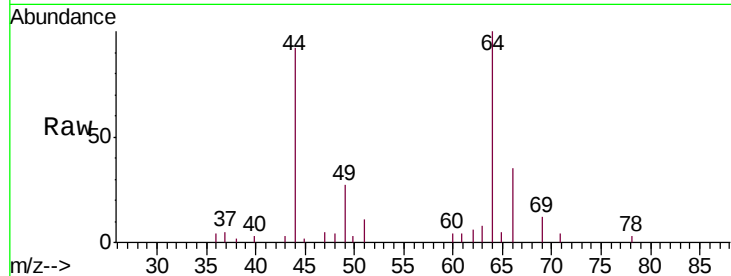




#8  
Chloroethane  
Concen: 1.028 ug/L  
RT: 1.60 min Scan# 159  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

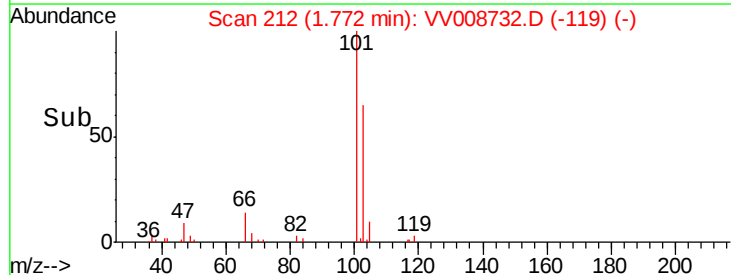
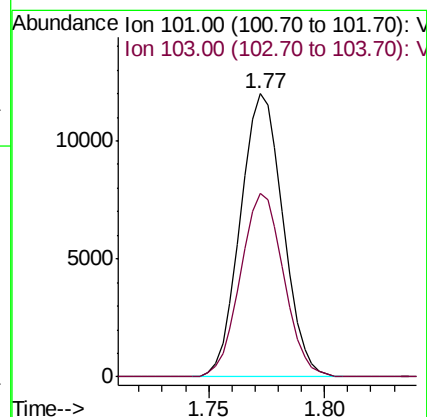
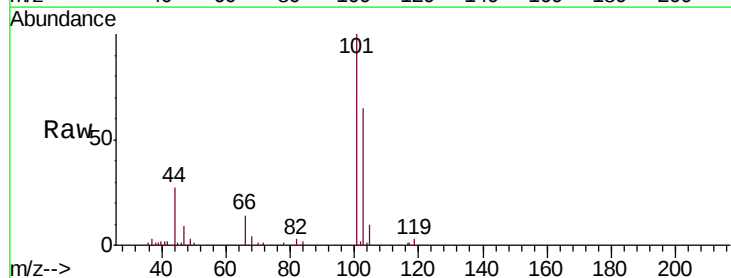
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

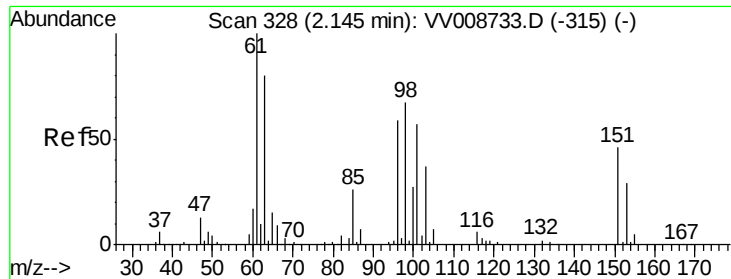
Tgt Ion: 64 Resp: 6418  
Ion Ratio Lower Upper  
64 100  
66 35.1 24.0 44.6



#9  
Trichlorofluoromethane  
Concen: 1.005 ug/L  
RT: 1.77 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion: 101 Resp: 15317  
Ion Ratio Lower Upper  
101 100  
103 65.9 51.8 77.6





#10

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

Concen: 1.048 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

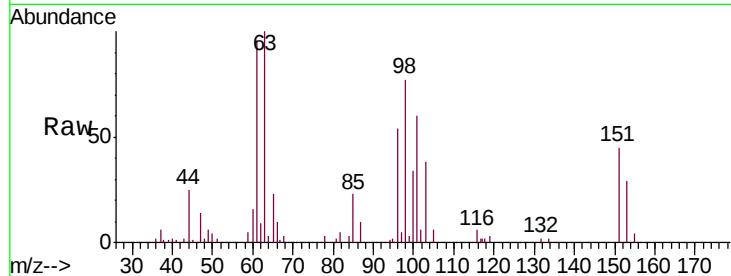
Tgt Ion:101 Resp: 9257

Ion Ratio Lower Upper

101 100

85 38.0 34.8 52.2

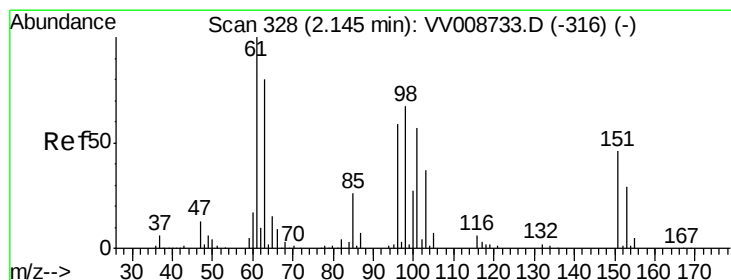
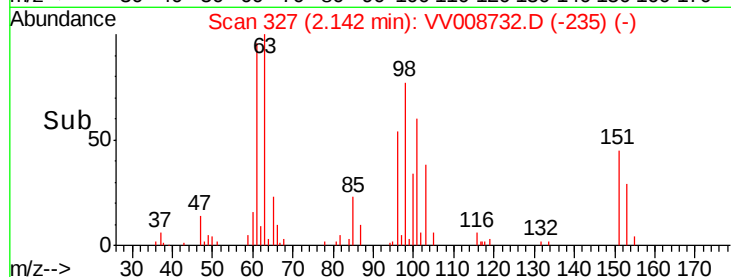
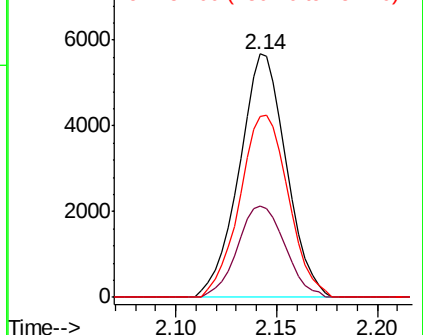
151 77.5 62.6 94.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.991 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

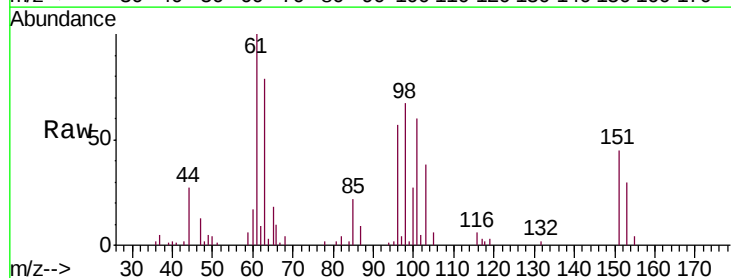
Tgt Ion: 96 Resp: 7967

Ion Ratio Lower Upper

96 100

61 176.9 118.0 219.2

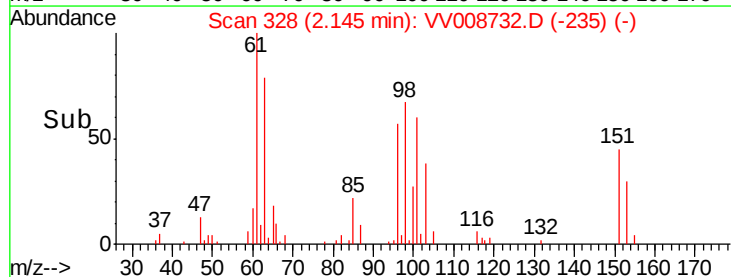
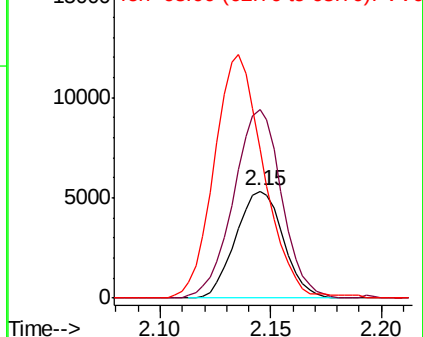
63 139.5 95.3 177.1

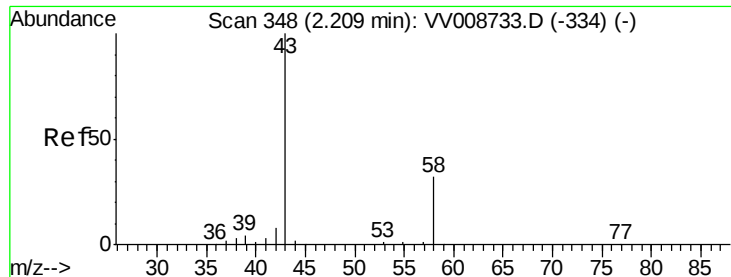


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.153 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.02 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

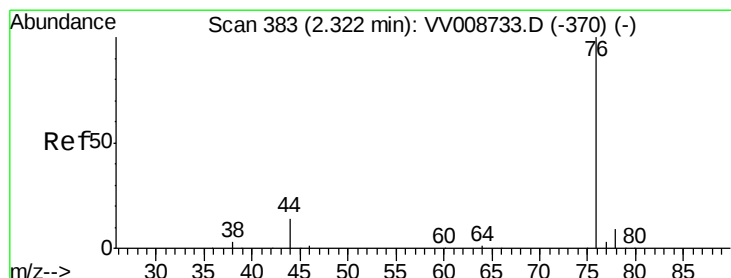
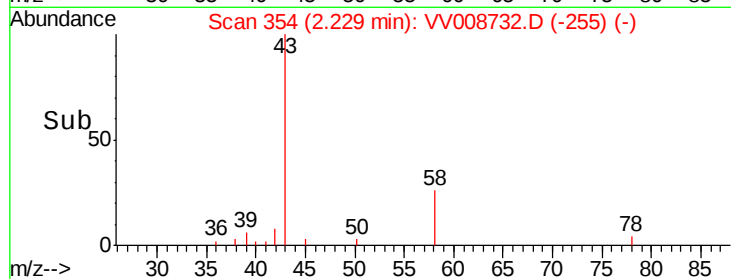
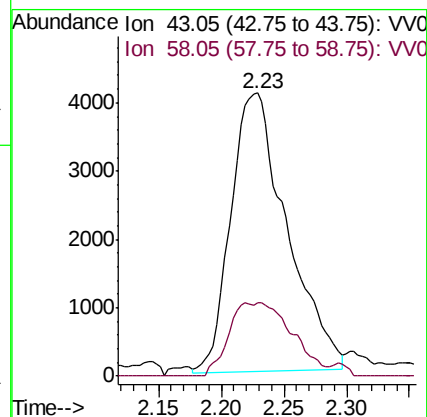
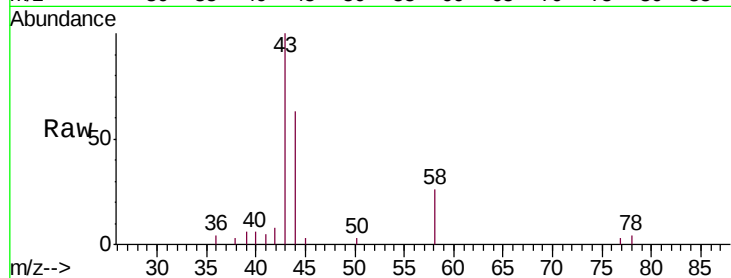
VSTD00163

Tgt Ion: 43 Resp: 12677

Ion Ratio Lower Upper

43 100

58 12.1 0.0 63.6



#14

Carbon disulfide

Concen: 0.960 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008732.D

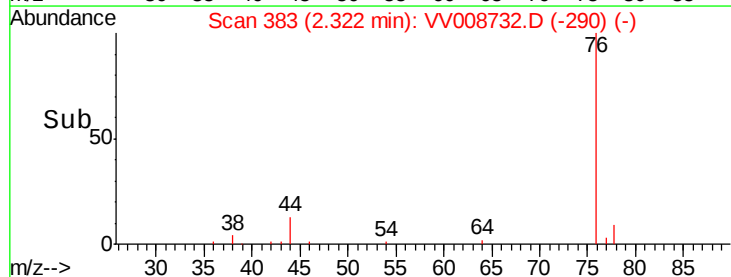
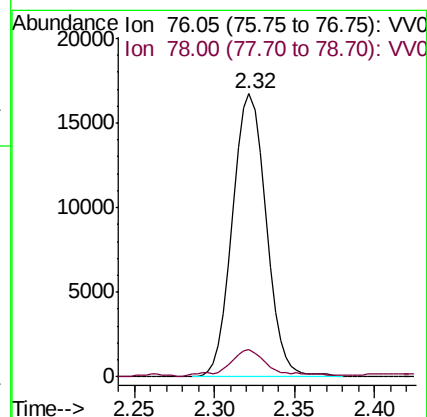
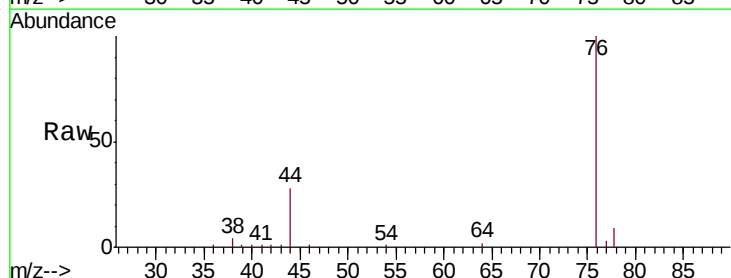
Acq: 28 Nov 2018 12:58

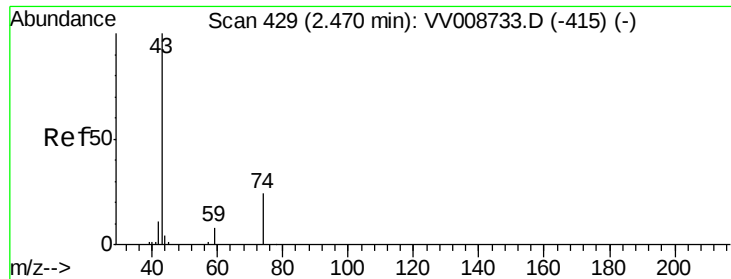
Tgt Ion: 76 Resp: 24031

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9

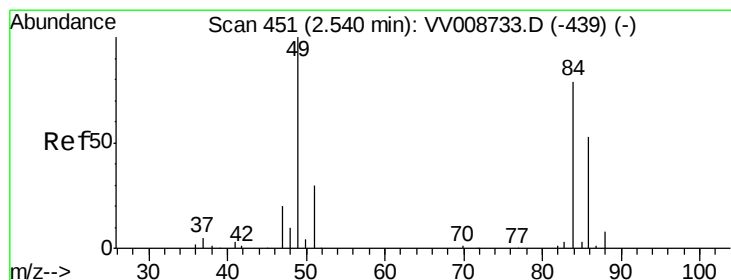
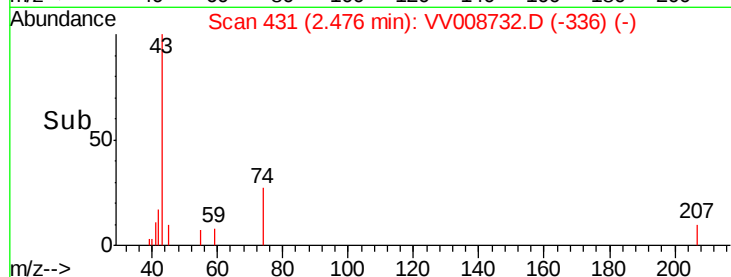
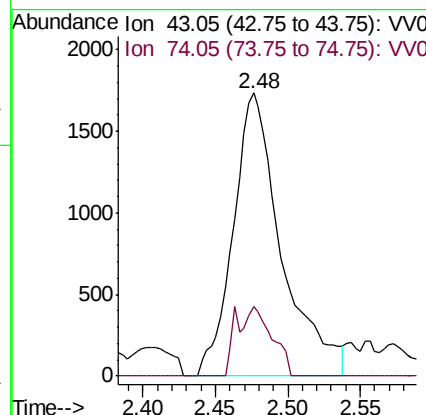
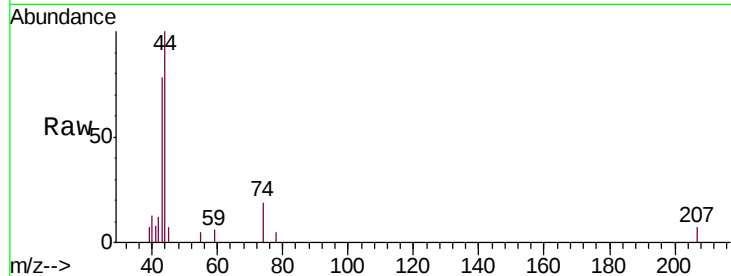




#15  
Methyl Acetate  
Concen: 1.146 ug/L  
RT: 2.48 min Scan# 431  
Delta R.T. 0.01 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

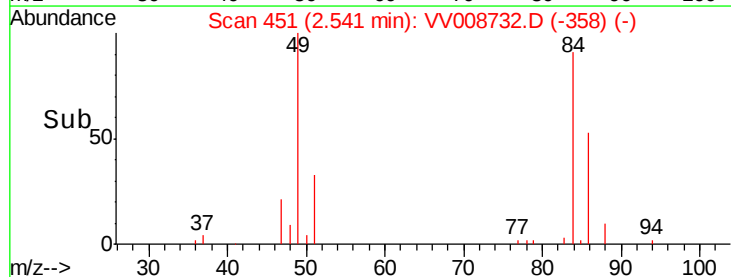
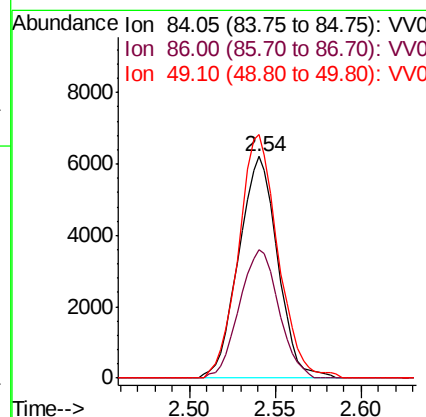
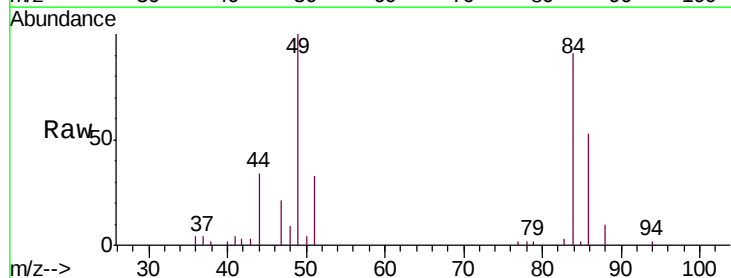
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

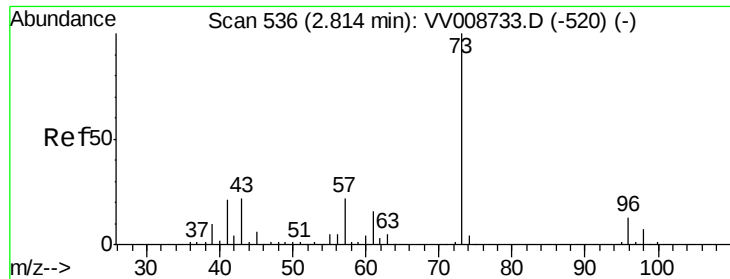
Tgt Ion: 43 Resp: 4010  
Ion Ratio Lower Upper  
43 100  
74 12.4 18.6 27.8#



#16  
Methylene chloride  
Concen: 1.014 ug/L  
RT: 2.54 min Scan# 451  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion: 84 Resp: 9774  
Ion Ratio Lower Upper  
84 100  
86 58.2 47.3 87.9  
49 109.9 88.8 165.0





#17

Methyl tert-butyl Ether

Concen: 0.917 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

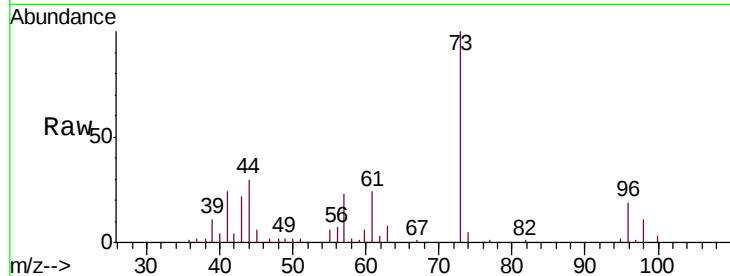
Tgt Ion: 73 Resp: 19127

Ion Ratio Lower Upper

73 100

43 21.6 17.9 26.9

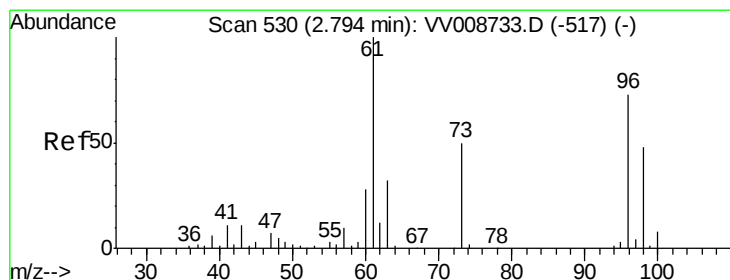
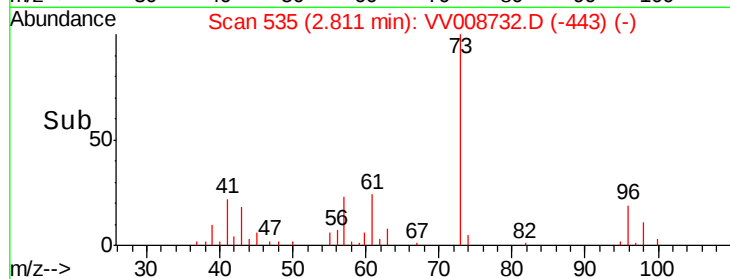
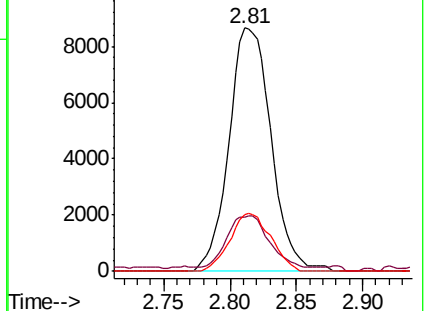
57 23.0 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VV008732.D (-520) (-)

Ion 43.05 (42.75 to 43.75): VV008732.D (-520) (-)

Ion 57.10 (56.80 to 57.80): VV008732.D (-520) (-)



#18

trans-1,2-Dichloroethene

Concen: 1.027 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

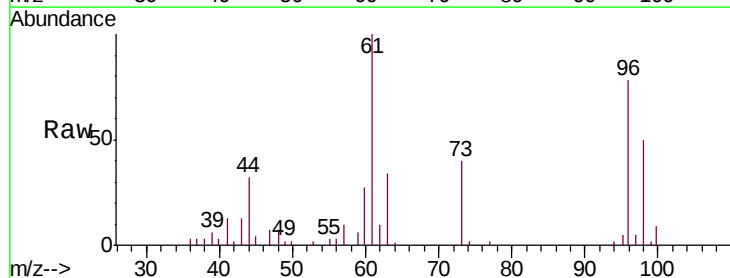
Tgt Ion: 96 Resp: 8960

Ion Ratio Lower Upper

96 100

61 128.4 96.5 179.1

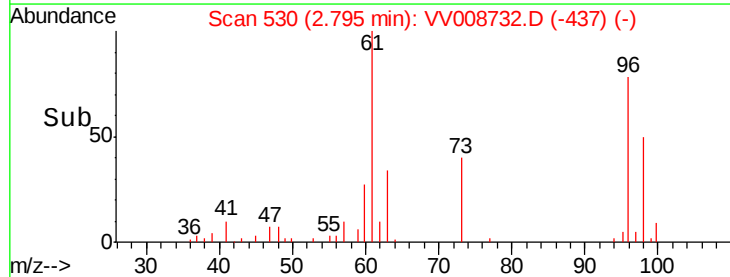
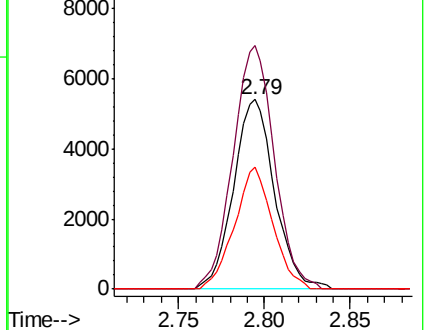
98 64.1 46.3 86.1

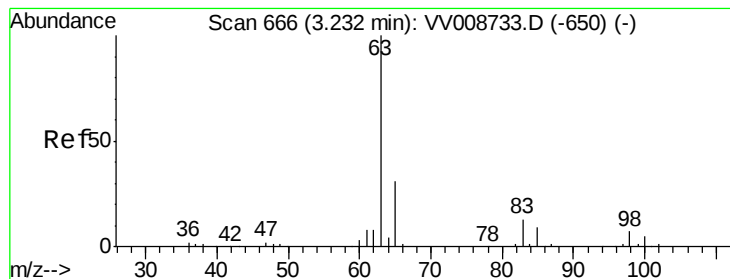


Abundance Ion 96.00 (95.70 to 96.70): VV008732.D (-437) (-)

Ion 61.05 (60.75 to 61.75): VV008732.D (-437) (-)

Ion 97.95 (97.65 to 98.65): VV008732.D (-437) (-)





#19

1,1-Dichloroethane

Concen: 0.902 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

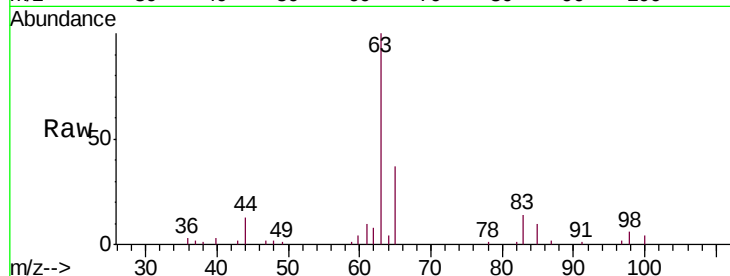
Tgt Ion: 63 Resp: 19334

Ion Ratio Lower Upper

63 100

65 36.5 21.6 40.2

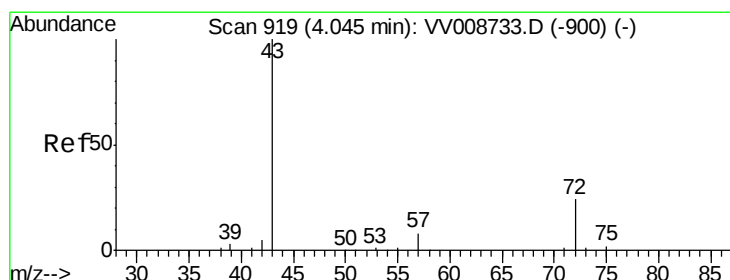
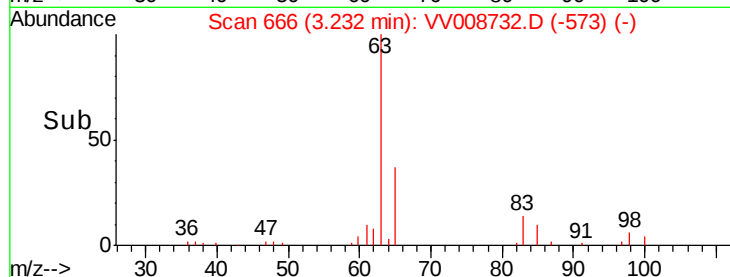
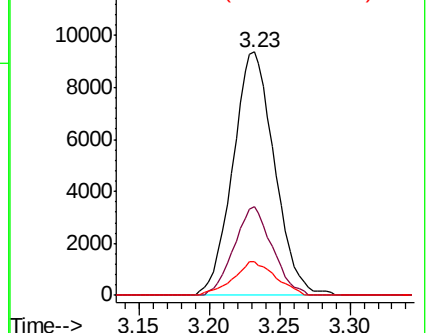
83 13.8 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV008732.D (-650) (-)

Ion 65.10 (64.80 to 65.80): VV008732.D (-650) (-)

Ion 83.05 (82.75 to 83.75): VV008732.D (-650) (-)



#21

2-Butanone

Concen: 8.507 ug/L

RT: 4.07 min Scan# 926

Delta R.T. 0.02 min

Lab File: VV008732.D

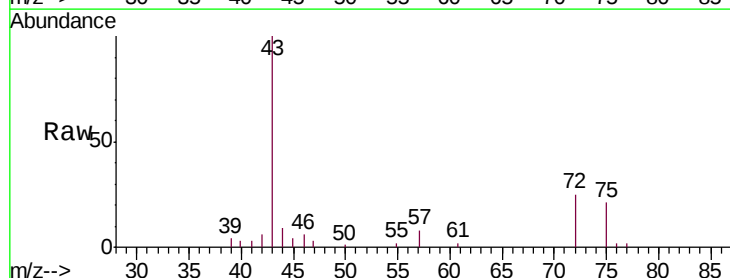
Acq: 28 Nov 2018 12:58

Tgt Ion: 43 Resp: 26216

Ion Ratio Lower Upper

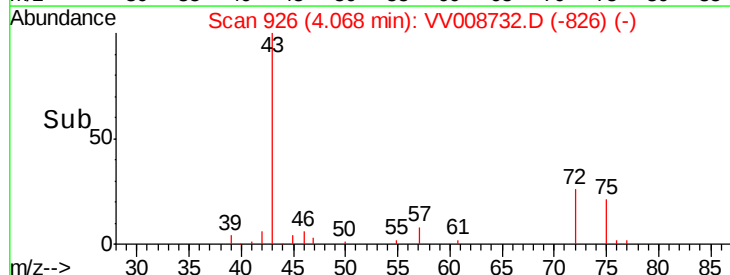
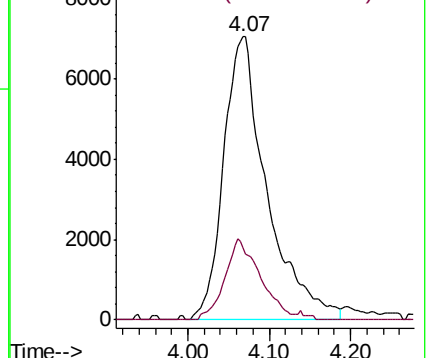
43 100

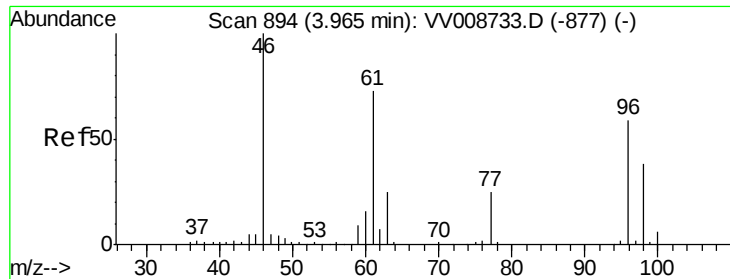
72 23.5 12.4 37.2



Abundance Ion 43.05 (42.75 to 43.75): VV008732.D (-826) (-)

Ion 72.10 (71.80 to 72.80): VV008732.D (-826) (-)

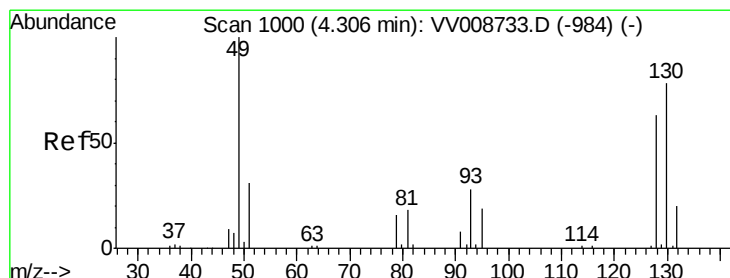
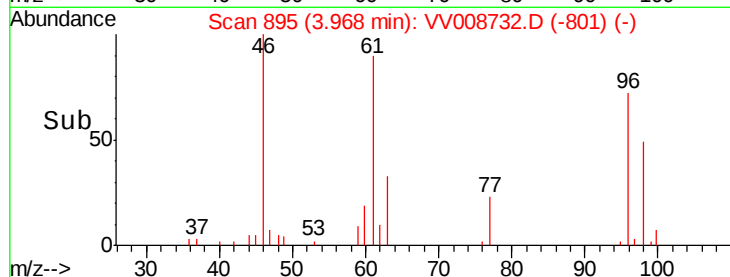
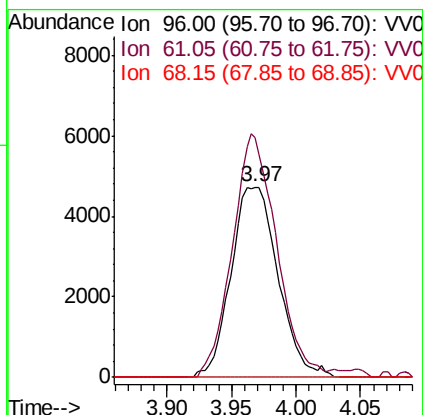
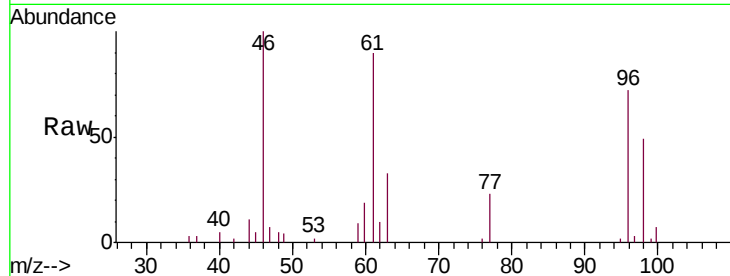




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.940 ug/L  
 RT: 3.97 min Scan# 895  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

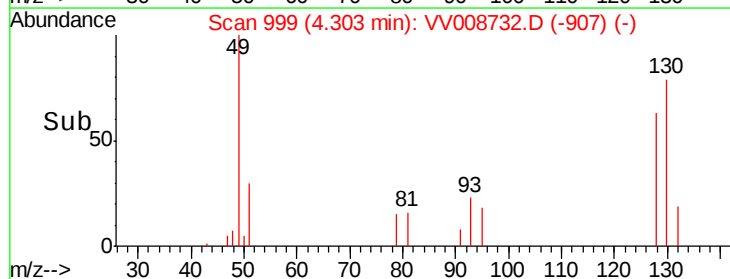
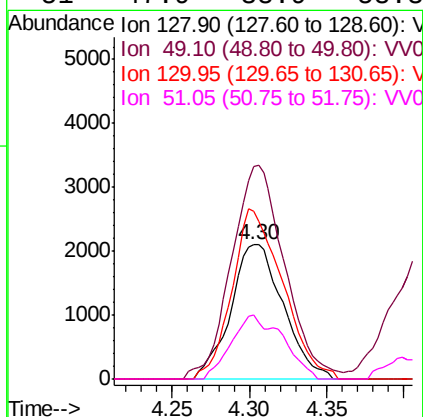
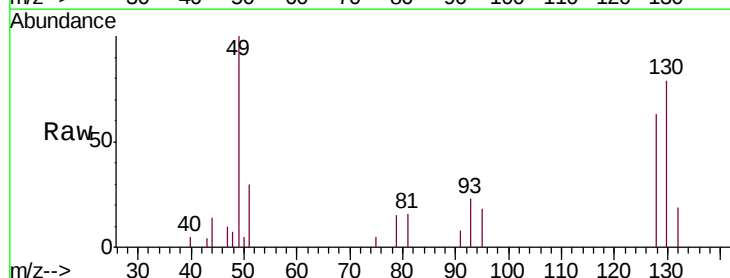
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

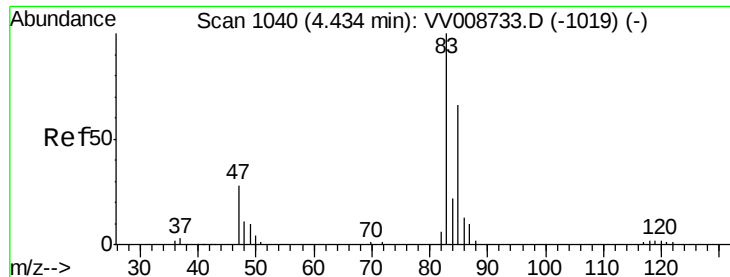
Tgt Ion: 96 Resp: 12034  
 Ion Ratio Lower Upper  
 96 100  
 61 126.2 86.9 161.3  
 68 0.0 0.0 0.0



#23  
 Bromochloromethane  
 Concen: 1.002 ug/L  
 RT: 4.30 min Scan# 999  
 Delta R.T. -0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion: 128 Resp: 4962  
 Ion Ratio Lower Upper  
 128 100  
 49 158.2 111.4 206.8  
 130 125.3 86.8 161.2  
 51 47.9 38.9 58.3

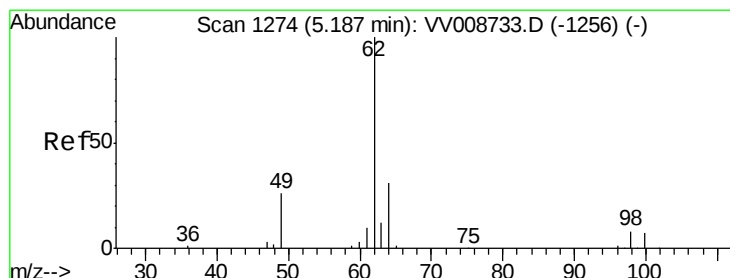
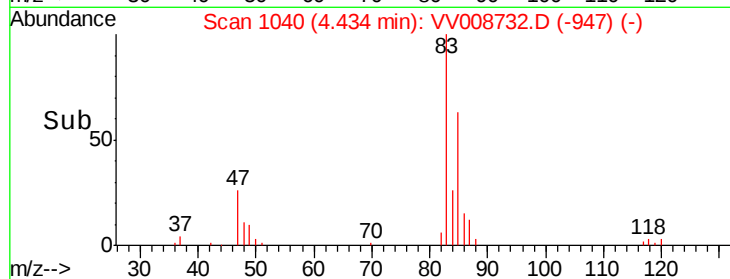
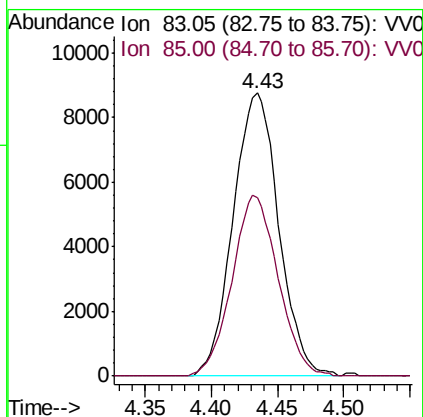
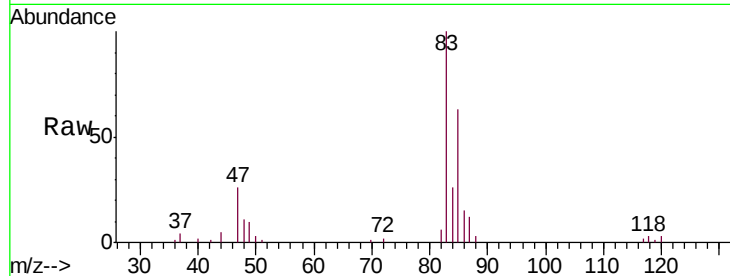




#25  
Chloroform  
Concen: 0.779 ug/L  
RT: 4.43 min Scan# 1040  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

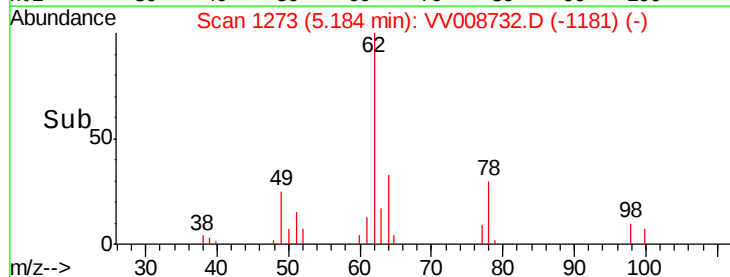
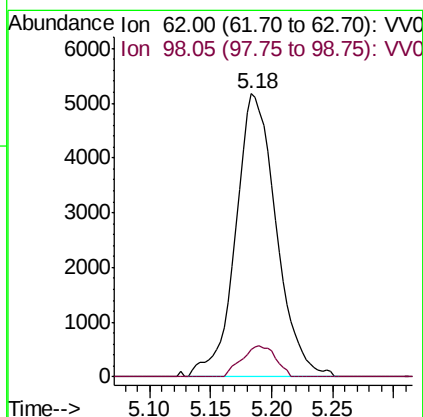
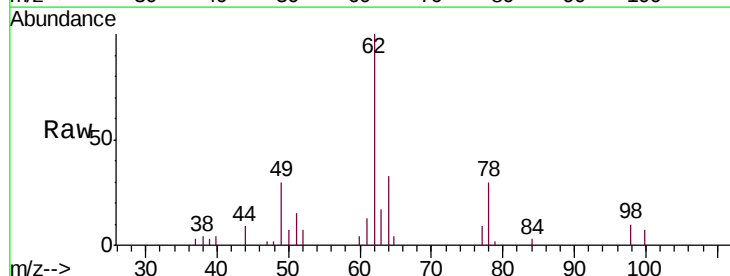
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

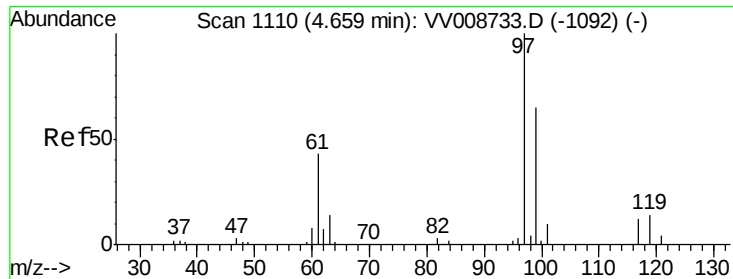
Tgt Ion: 83 Resp: 20917  
Ion Ratio Lower Upper  
83 100  
85 63.2 46.4 86.2



#27  
1,2-Dichloroethane  
Concen: 0.888 ug/L  
RT: 5.18 min Scan# 1273  
Delta R.T. -0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion: 62 Resp: 11907  
Ion Ratio Lower Upper  
62 100  
98 9.6 6.6 9.8

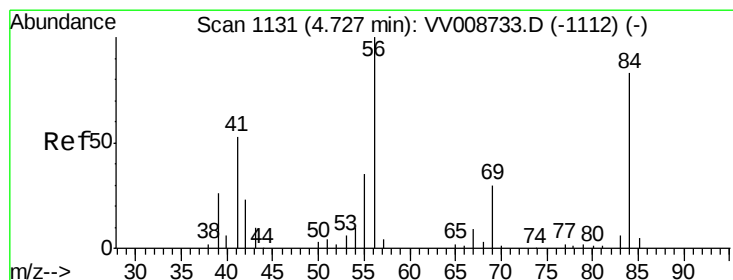
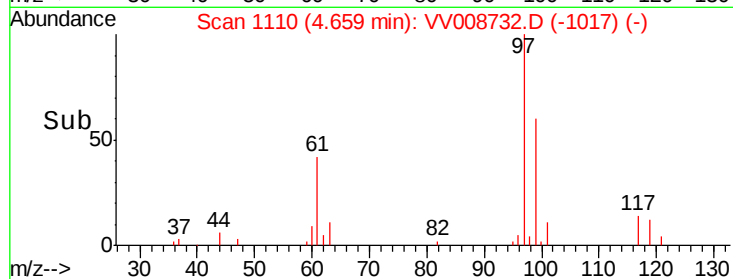
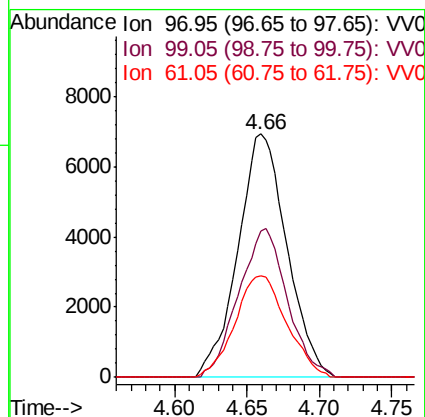
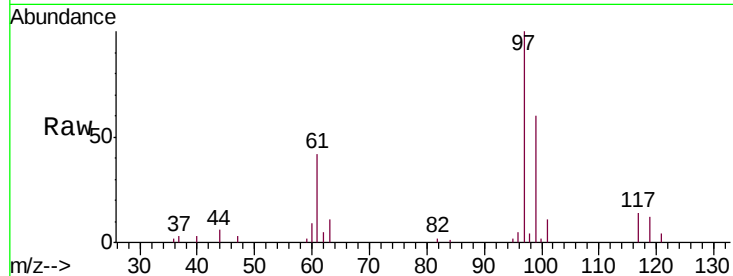




#29  
 1,1,1-Trichloroethane  
 Concen: 0.851 ug/L  
 RT: 4.66 min Scan# 1110  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

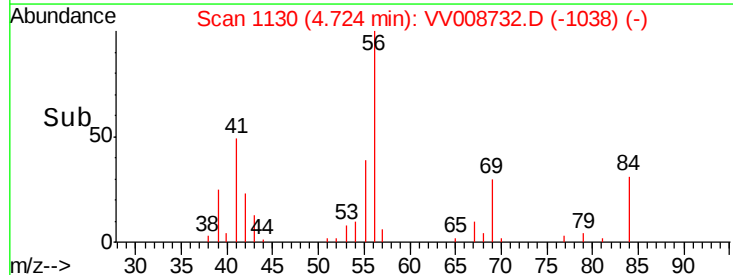
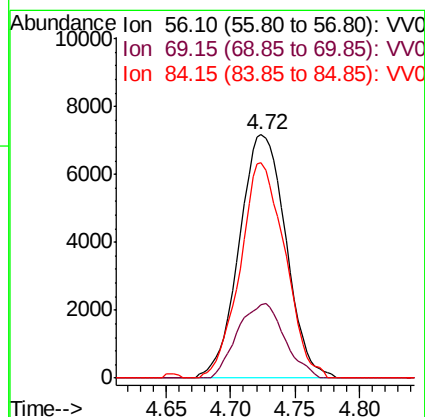
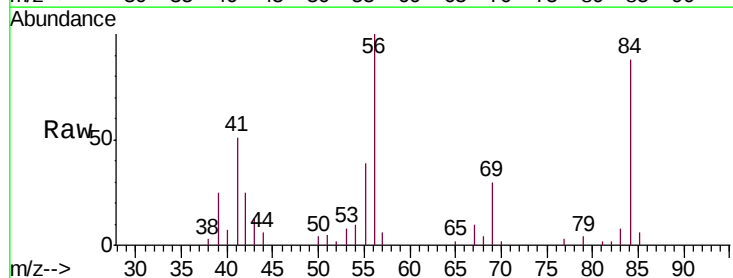
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

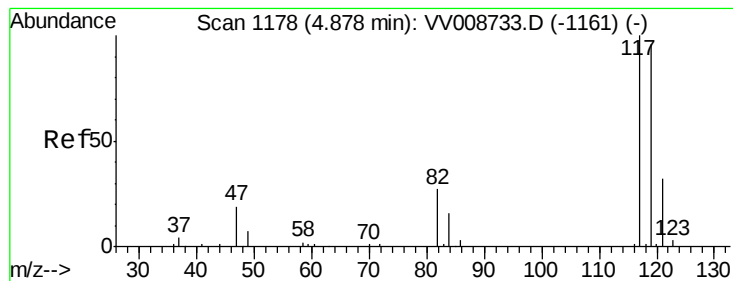
Tgt Ion: 97 Resp: 16272  
 Ion Ratio Lower Upper  
 97 100  
 99 60.6 51.3 76.9  
 61 44.0 33.8 50.6



#30  
 Cyclohexane  
 Concen: 0.856 ug/L  
 RT: 4.72 min Scan# 1130  
 Delta R.T. -0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion: 56 Resp: 18038  
 Ion Ratio Lower Upper  
 56 100  
 69 30.9 24.9 37.3  
 84 85.1 69.5 104.3





#31

Carbon tetrachloride

Concen: 0.824 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

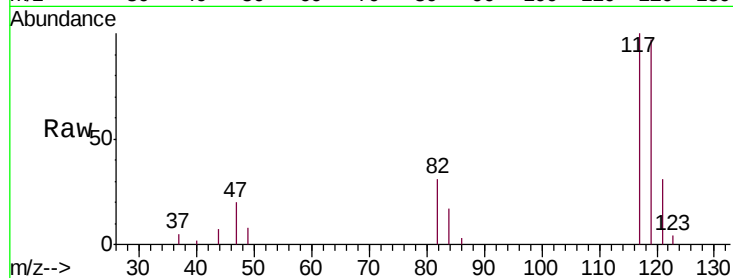
VSTD00163

Tgt Ion:117 Resp: 13346

Ion Ratio Lower Upper

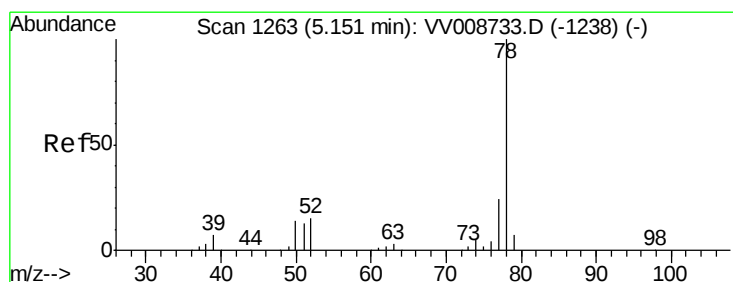
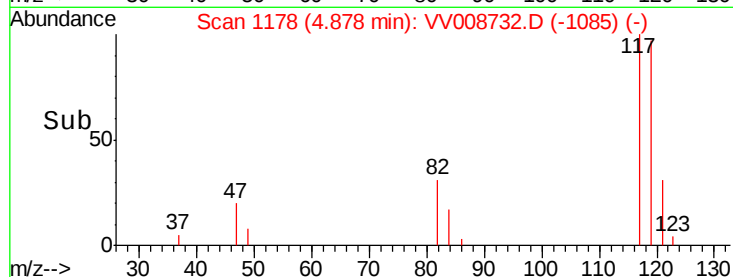
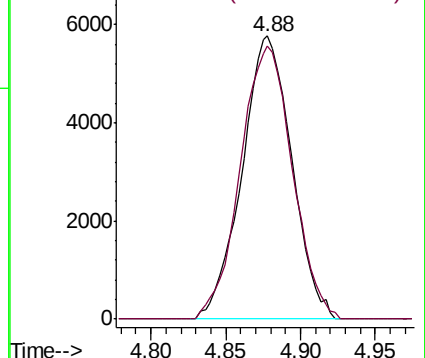
117 100

119 100.8 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.901 ug/L

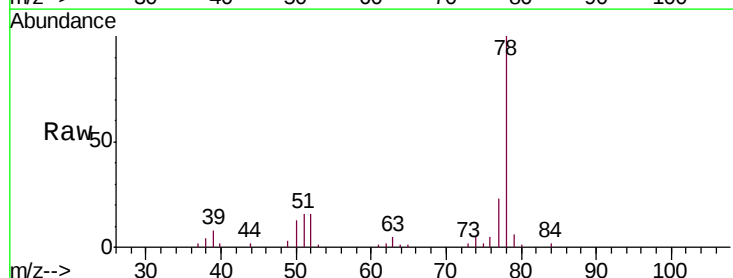
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

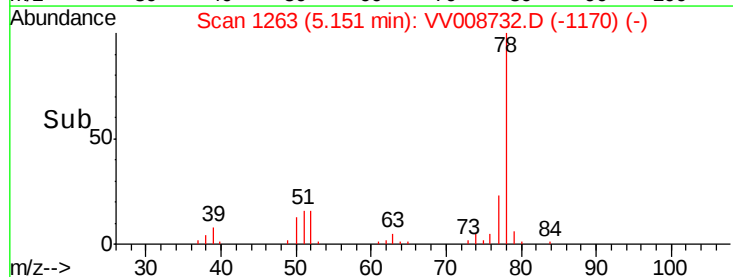
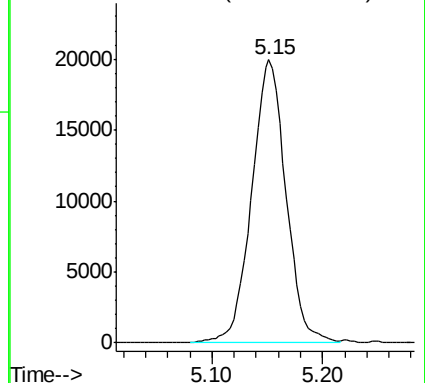
Lab File: VV008732.D

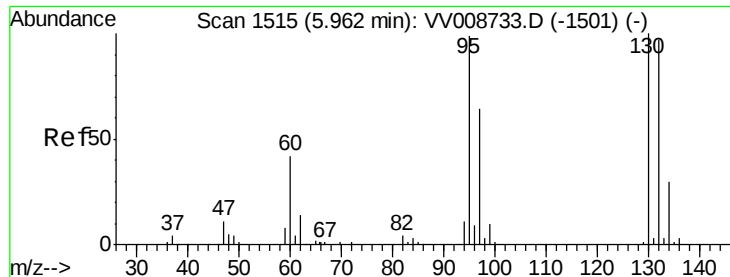
Acq: 28 Nov 2018 12:58

Tgt Ion: 78 Resp: 43121



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.979 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

Tgt Ion: 95 Resp: 12541

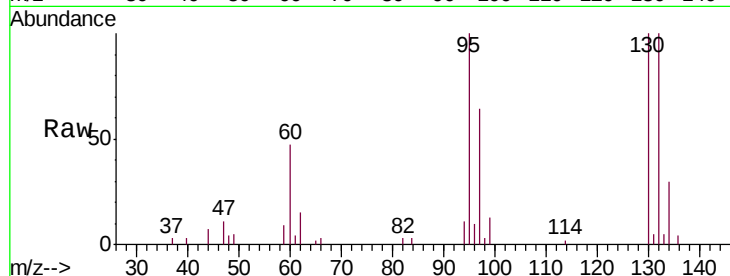
Ion Ratio Lower Upper

95 100

97 64.0 45.1 83.9

132 100.1 68.0 126.4

130 99.9 70.4 130.8

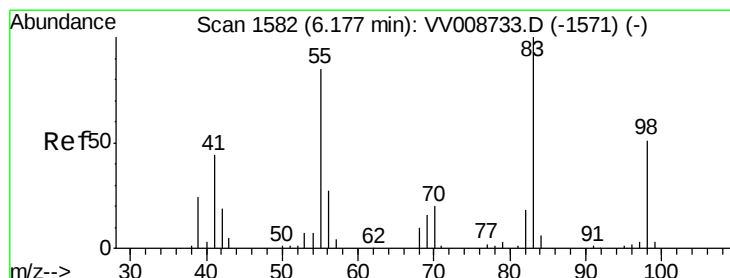
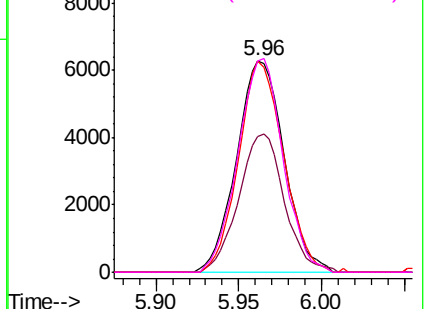
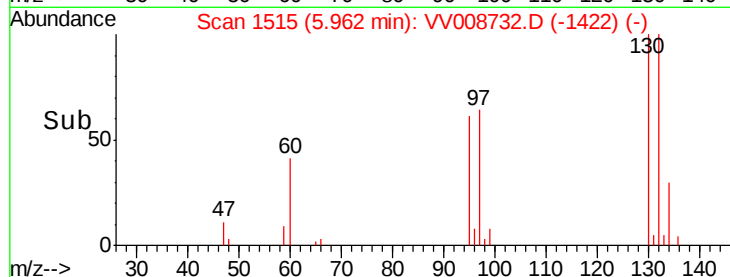


Abundance Ion 95.00 (94.70 to 95.70): VV008732.D (-1422) (-)

Ion 96.95 (96.65 to 97.65): VV008732.D (-1422) (-)

Ion 131.95 (131.65 to 132.65): VV008732.D (-1422) (-)

Ion 129.95 (129.65 to 130.65): VV008732.D (-1422) (-)



#35

Methylcyclohexane

Concen: 0.863 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

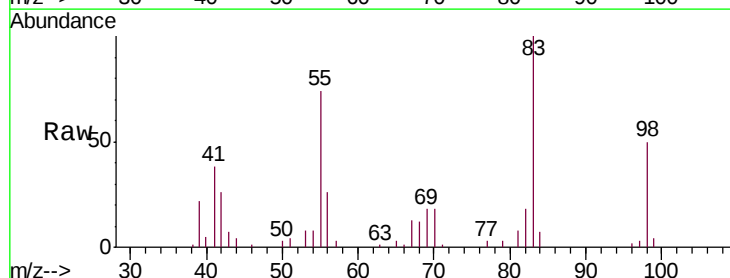
Tgt Ion: 83 Resp: 18499

Ion Ratio Lower Upper

83 100

55 79.6 62.2 93.2

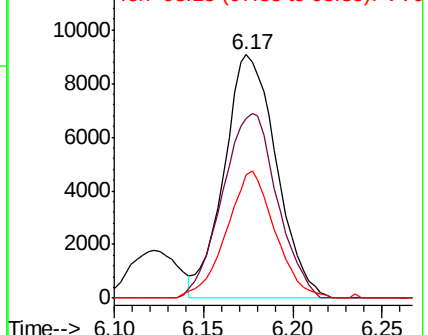
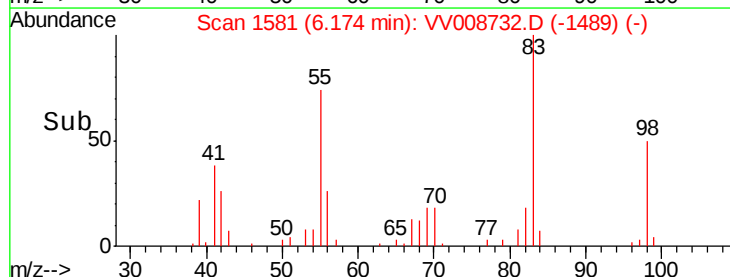
98 48.5 37.1 55.7

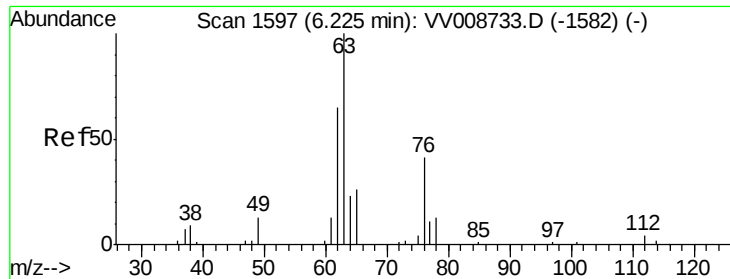


Abundance Ion 83.15 (82.85 to 83.85): VV008732.D (-1489) (-)

Ion 55.10 (54.80 to 55.80): VV008732.D (-1489) (-)

Ion 98.15 (97.85 to 98.85): VV008732.D (-1489) (-)

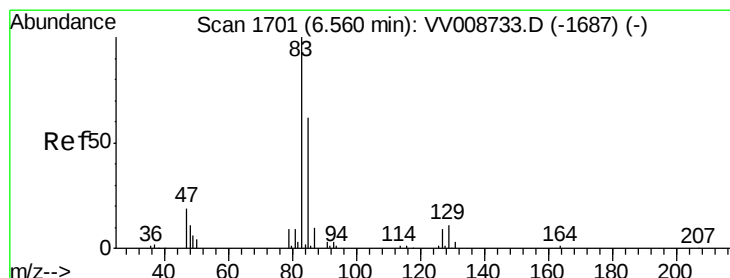
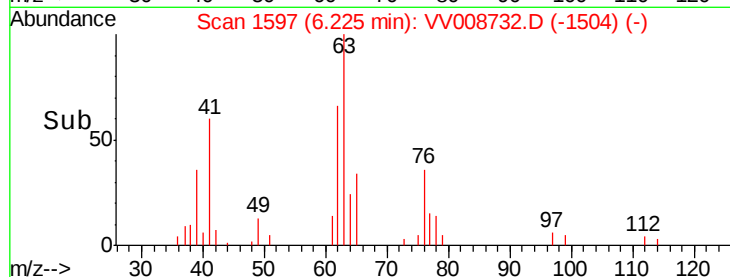
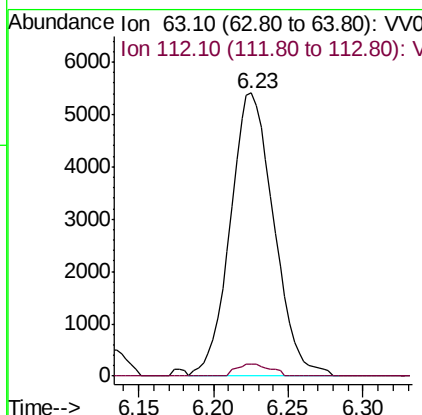
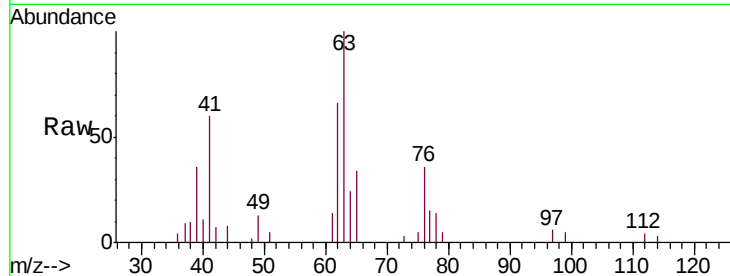




#37  
 1,2-Dichloropropane  
 Concen: 0.875 ug/L  
 RT: 6.23 min Scan# 1597  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

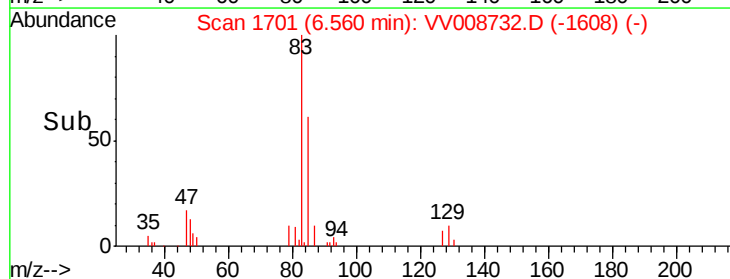
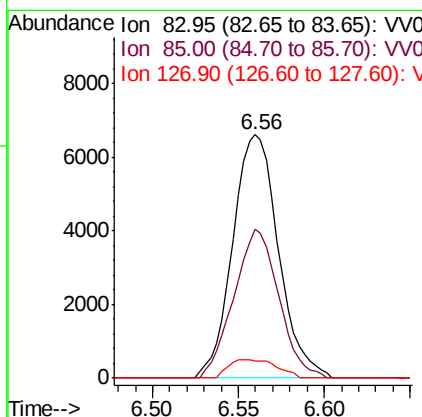
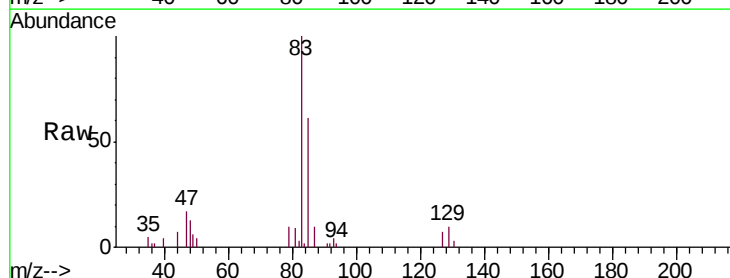
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

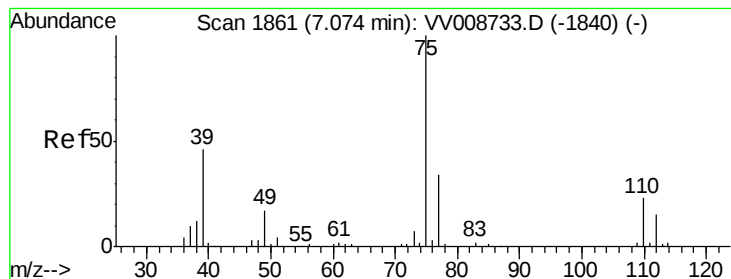
Tgt Ion: 63 Resp: 10967  
 Ion Ratio Lower Upper  
 63 100  
 112 3.3 3.2 4.8



#38  
 Bromodichloromethane  
 Concen: 0.803 ug/L  
 RT: 6.56 min Scan# 1701  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion: 83 Resp: 12218  
 Ion Ratio Lower Upper  
 83 100  
 85 60.9 43.8 81.3  
 127 7.2 7.0 10.6



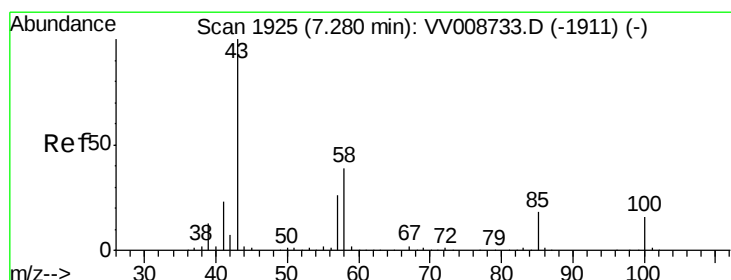
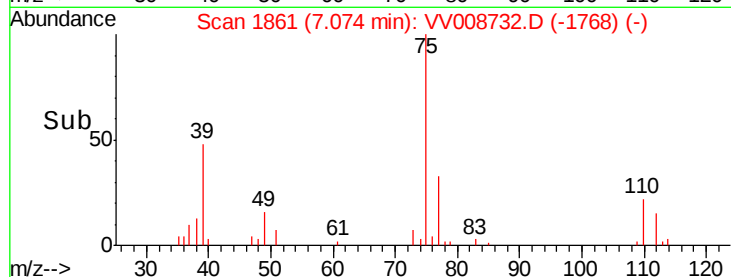
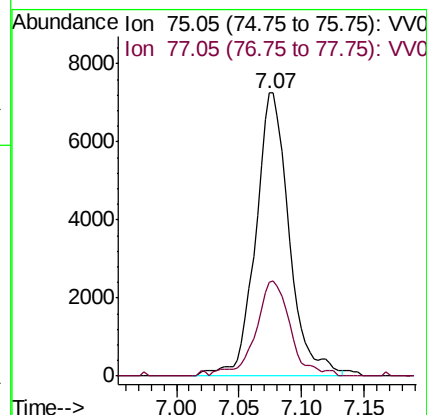
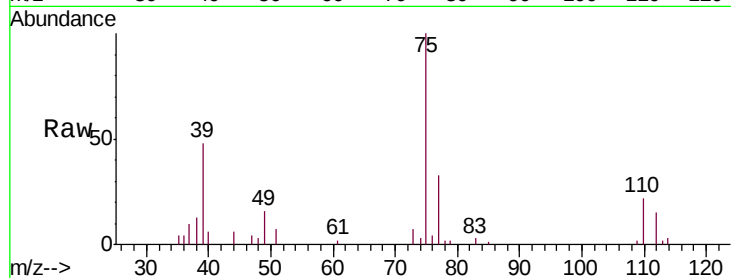


#39

cis-1,3-Dichloropropene  
 Concen: 0.799 ug/L  
 RT: 7.07 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

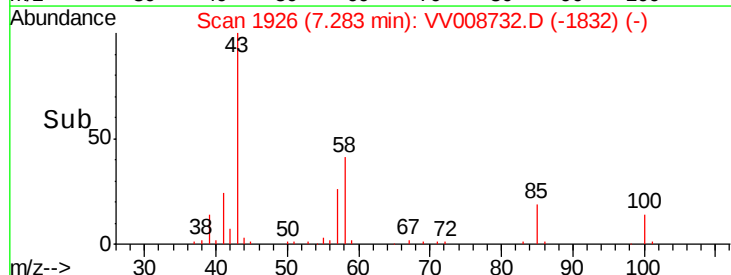
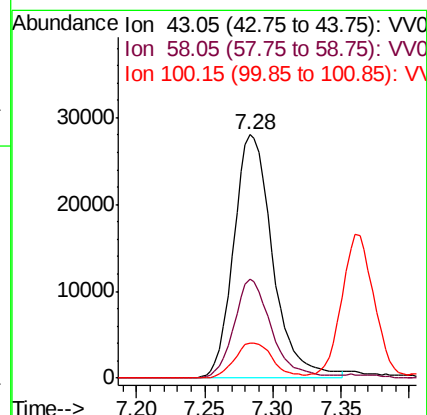
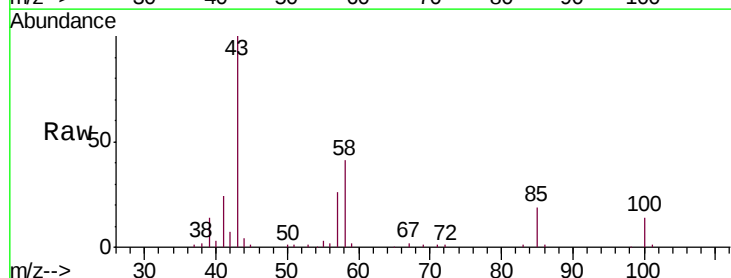
Tgt Ion: 75 Resp: 13534  
 Ion Ratio Lower Upper  
 75 100  
 77 33.3 23.8 44.2

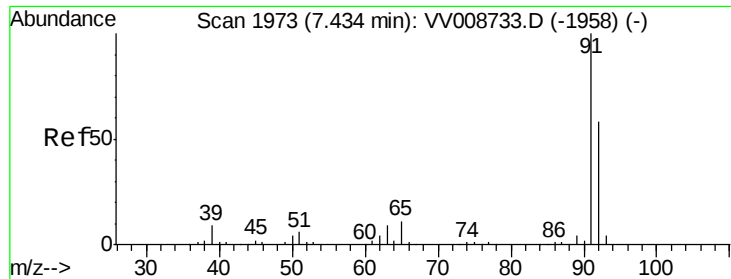


#40

4-Methyl-2-pentanone  
 Concen: 7.726 ug/L  
 RT: 7.28 min Scan# 1926  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion: 43 Resp: 55748  
 Ion Ratio Lower Upper  
 43 100  
 58 39.3 30.6 45.8  
 100 14.3 12.2 18.4





#42

Toluene

Concen: 0.881 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

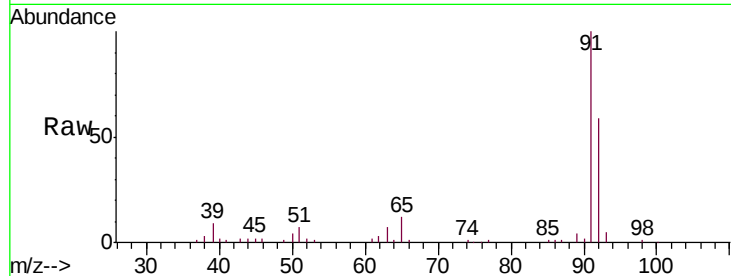
VSTD00163

Tgt Ion: 91 Resp: 43999

Ion Ratio Lower Upper

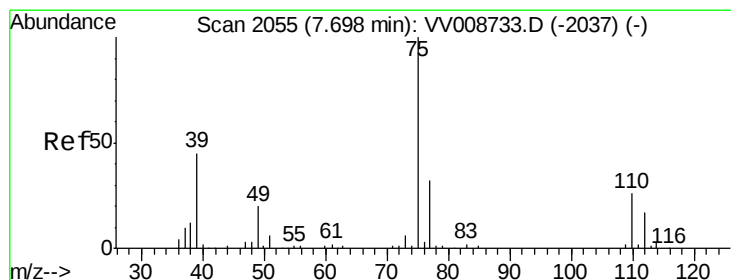
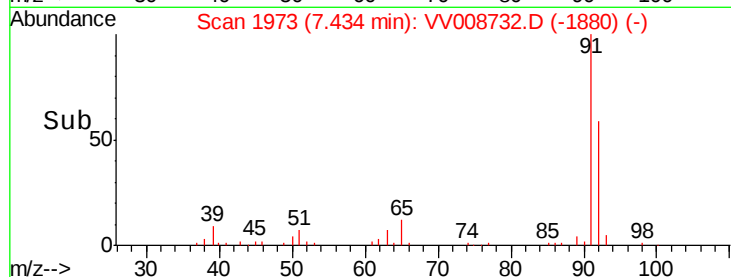
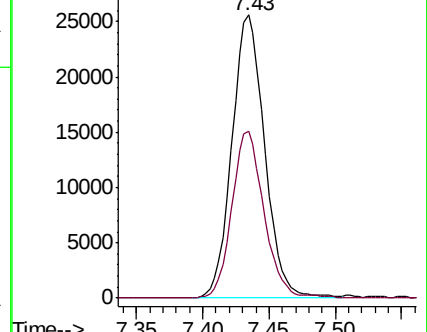
91 100

92 59.0 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VV008733.D (-1958) (-)

Ion 92.15 (91.85 to 92.85): VV008733.D (-1958) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.771 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008732.D

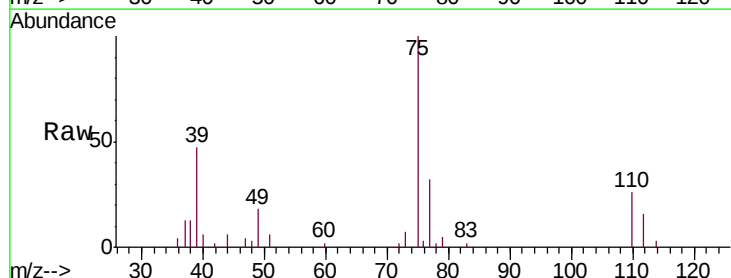
Acq: 28 Nov 2018 12:58

Tgt Ion: 75 Resp: 10445

Ion Ratio Lower Upper

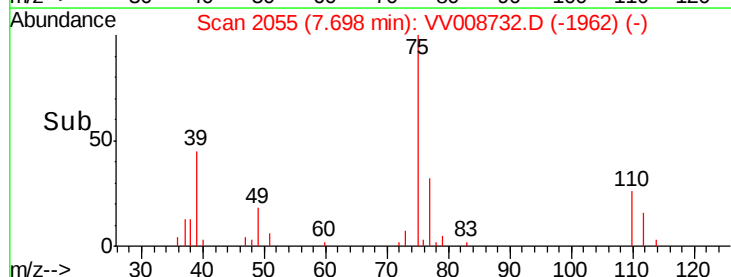
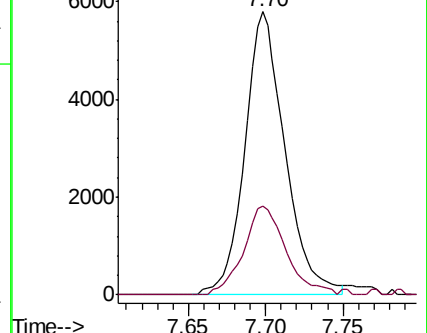
75 100

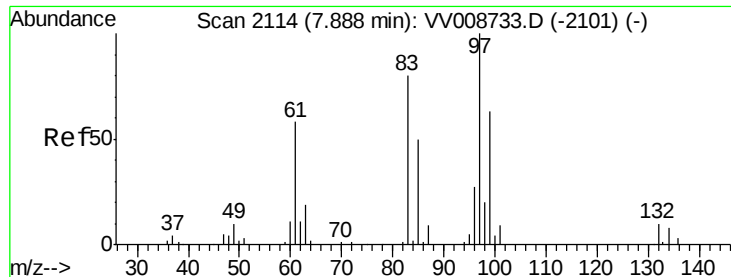
77 31.5 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV008733.D (-2037) (-)

Ion 77.05 (76.75 to 77.75): VV008733.D (-2037) (-)

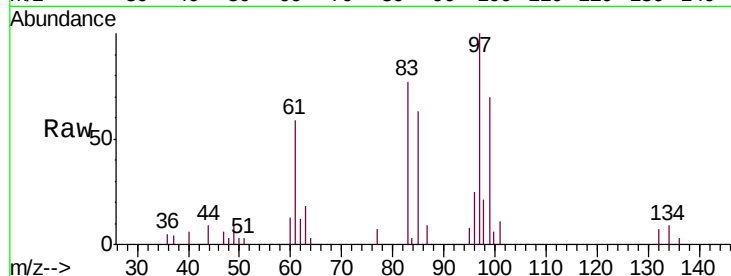




#45  
 1,1,2-Trichloroethane  
 Concen: 0.883 ug/L  
 RT: 7.89 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7082  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 69.6  | 43.8  | 81.4  |
| 83       | 77.4  | 55.8  | 103.6 |
| 85       | 62.6  | 34.6  | 64.3  |



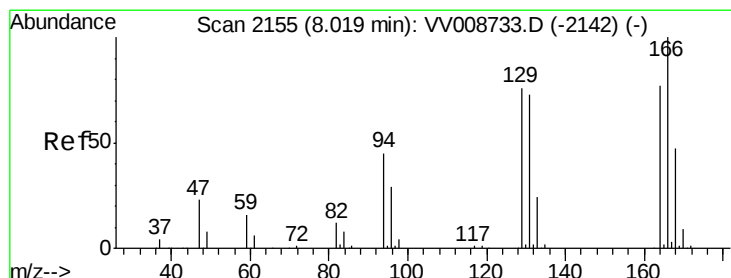
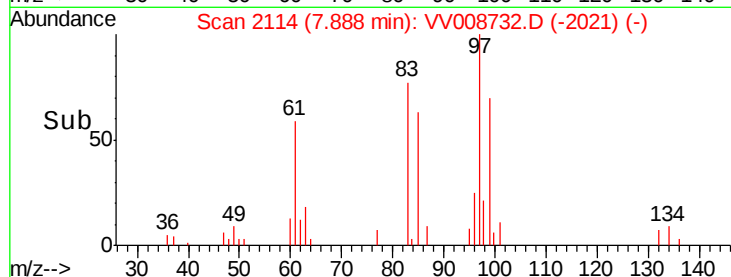
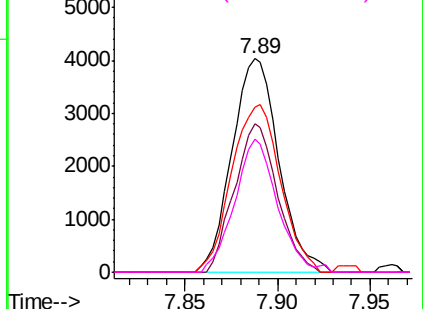
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

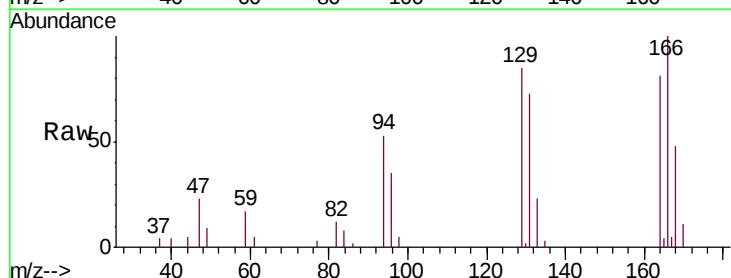
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47  
 Tetrachloroethene  
 Concen: 0.971 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 9088  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 105.6 | 68.9  | 127.9 |
| 131      | 90.7  | 66.2  | 123.0 |
| 166      | 123.6 | 91.1  | 169.1 |



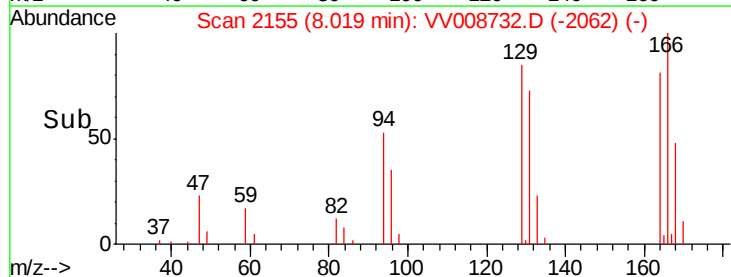
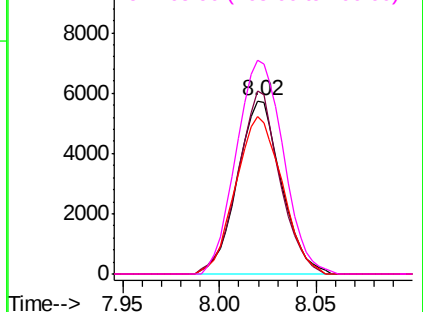
Abundance

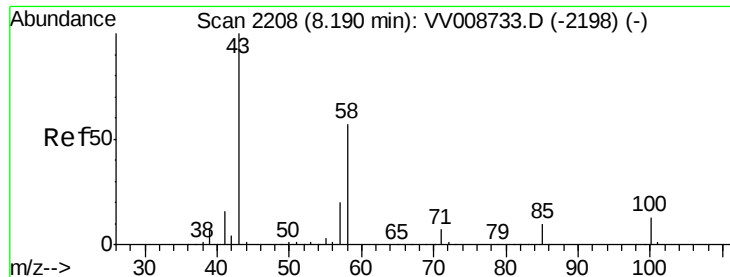
Ion 163.90 (163.60 to 164.60): V

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

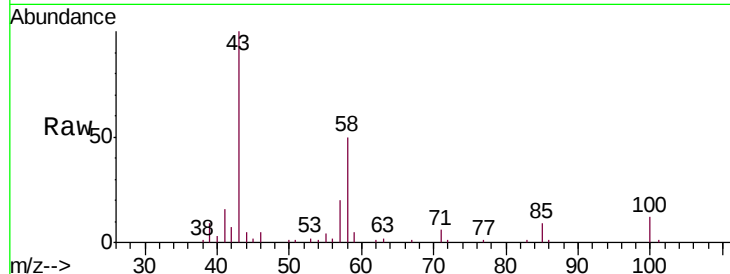




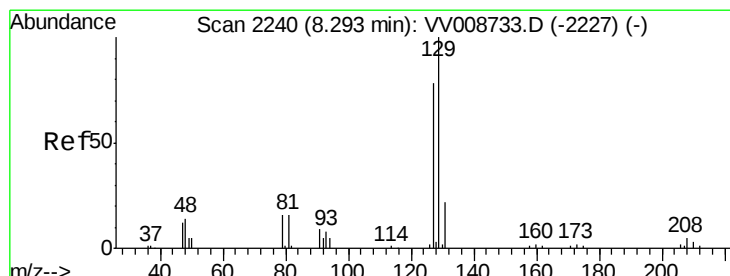
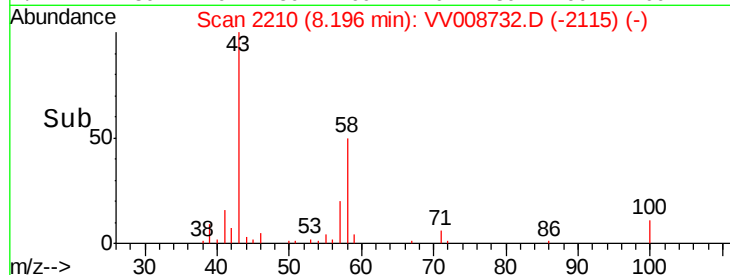
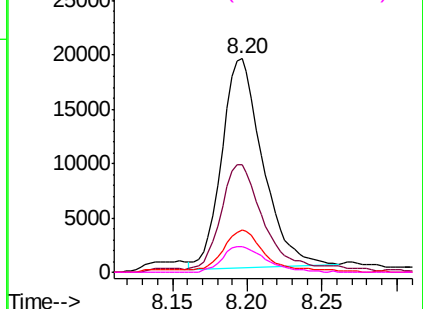
#48  
2-Hexanone  
Concen: 7.534 ug/L  
RT: 8.20 min Scan# 2210  
Delta R.T. 0.01 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

Tgt Ion: 43 Resp: 36657  
Ion Ratio Lower Upper  
43 100  
58 50.9 44.1 66.1  
57 21.3 15.2 22.8  
100 13.2 9.7 14.5

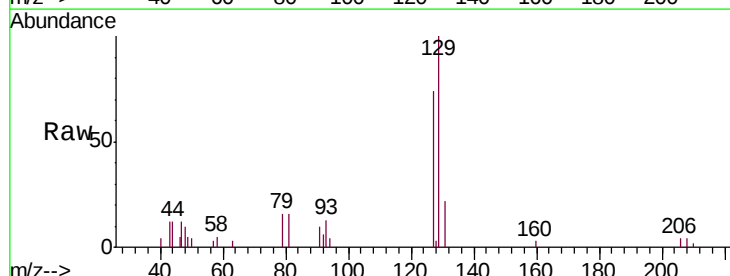


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

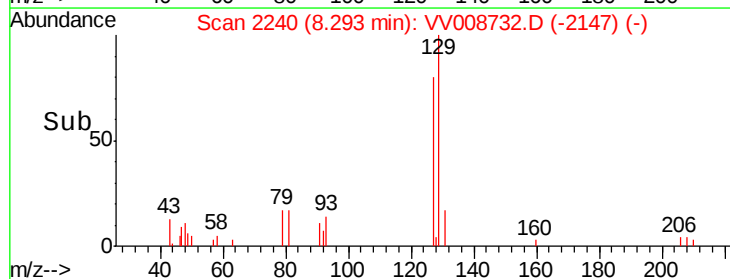
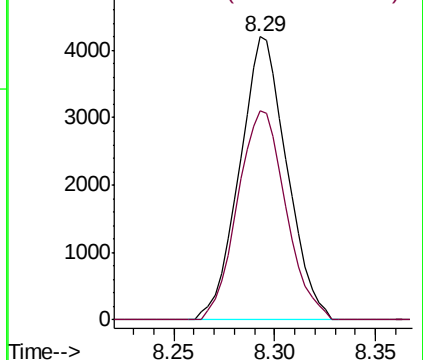


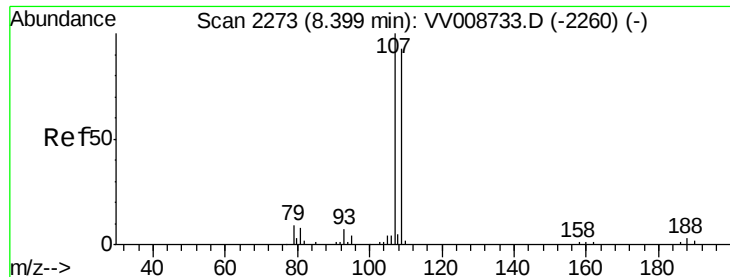
#49  
Dibromochloromethane  
Concen: 0.766 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion: 129 Resp: 6887  
Ion Ratio Lower Upper  
129 100  
127 73.8 54.8 101.8



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

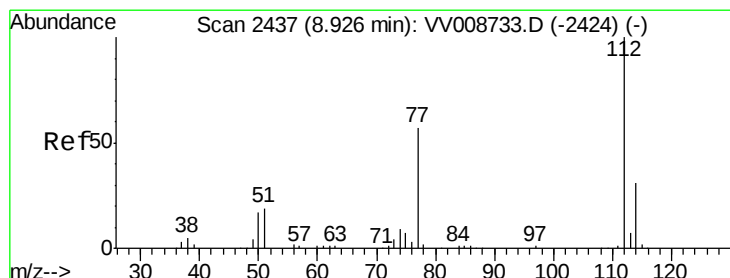
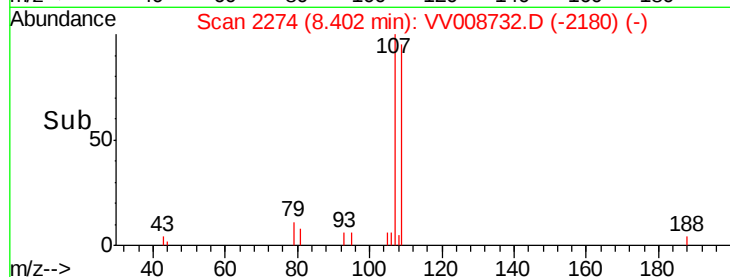
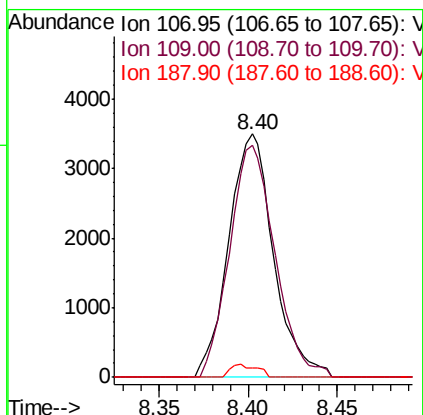
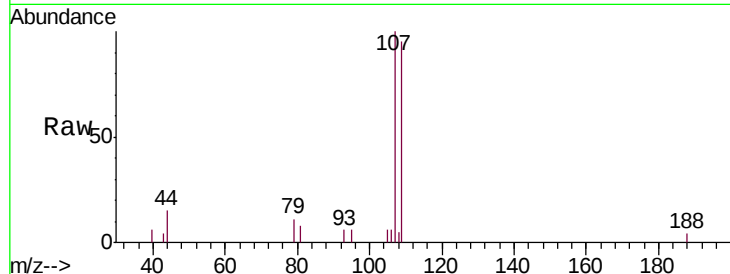




#50  
1,2-Dibromoethane  
Concen: 0.845 ug/L  
RT: 8.40 min Scan# 2274  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

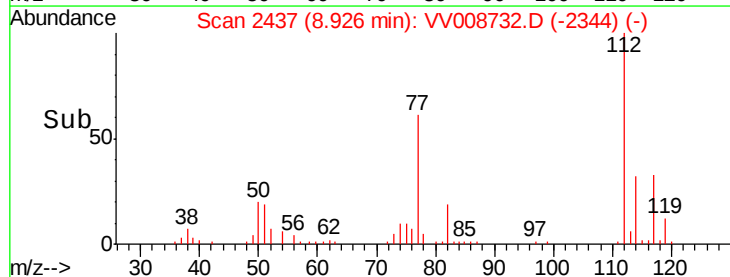
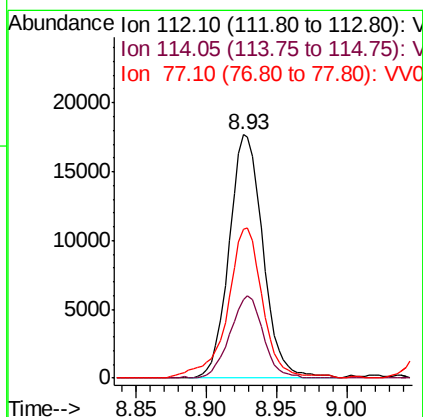
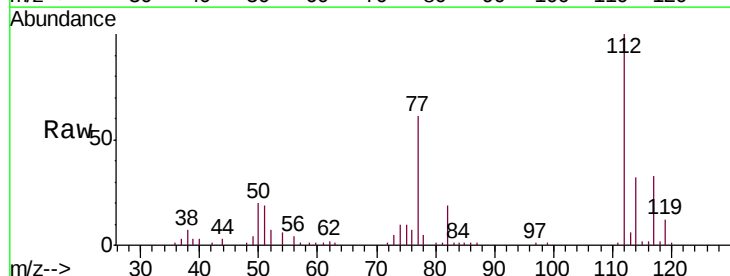
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

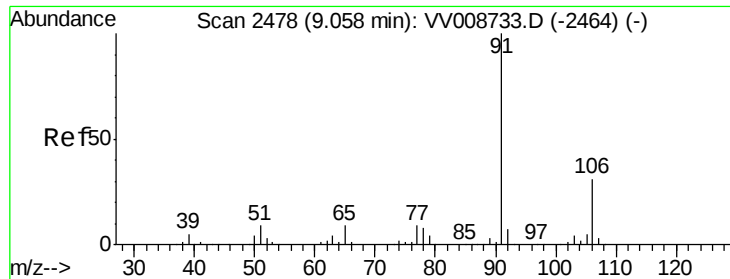
Tgt Ion:107 Resp: 6108  
Ion Ratio Lower Upper  
107 100  
109 95.2 65.2 121.2  
188 3.8 2.3 3.5#



#51  
Chlorobenzene  
Concen: 0.953 ug/L  
RT: 8.93 min Scan# 2437  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion:112 Resp: 29730  
Ion Ratio Lower Upper  
112 100  
114 32.0 21.4 39.8  
77 61.3 45.8 68.8





#52

Ethylbenzene

Concen: 0.861 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

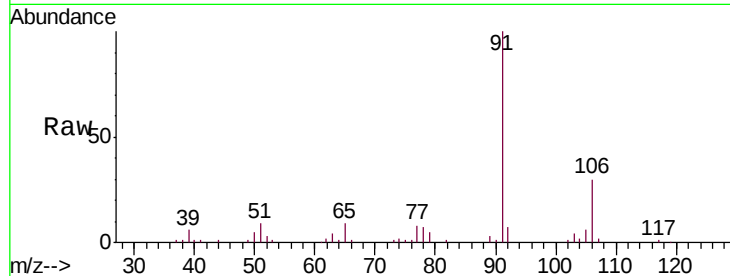
VSTD00163

Tgt Ion: 91 Resp: 47273

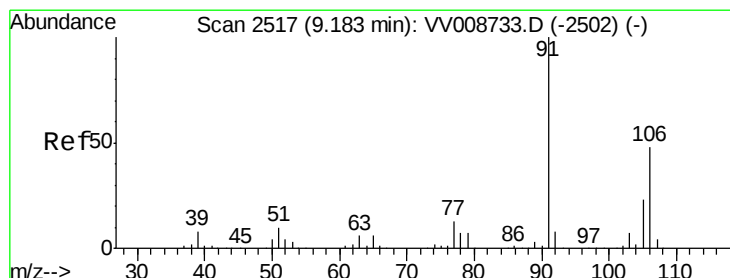
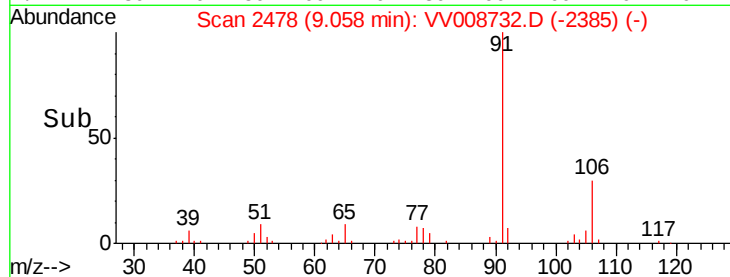
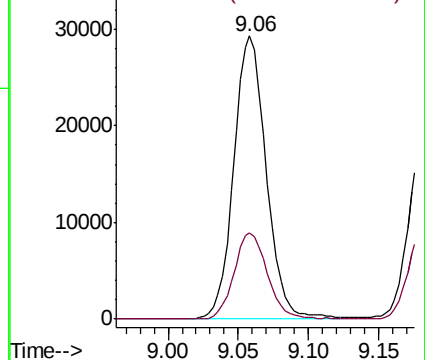
Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VV008733.D (-2464) (-)



#53

m,p-xylene

Concen: 0.849 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008732.D

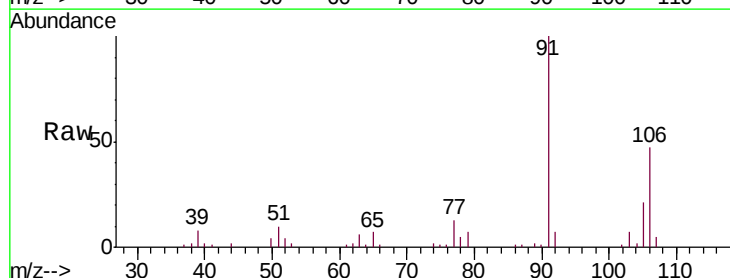
Acq: 28 Nov 2018 12:58

Tgt Ion: 106 Resp: 17325

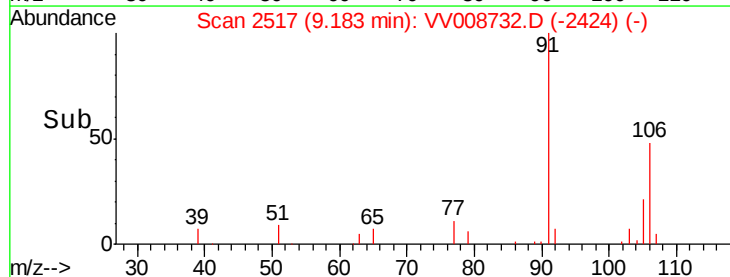
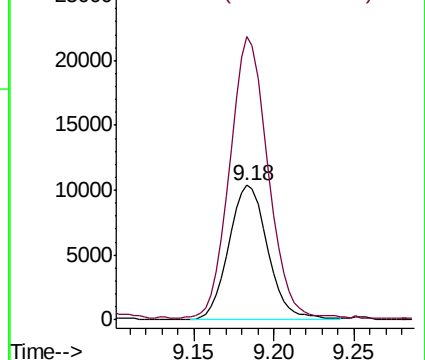
Ion Ratio Lower Upper

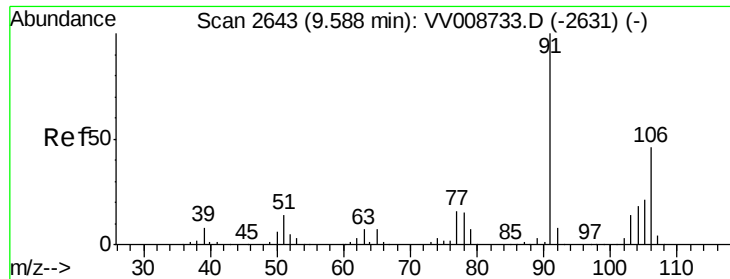
106 100

91 210.7 145.1 269.5



Abundance Ion 106.15 (105.85 to 106.85): VV008733.D (-2502) (-)

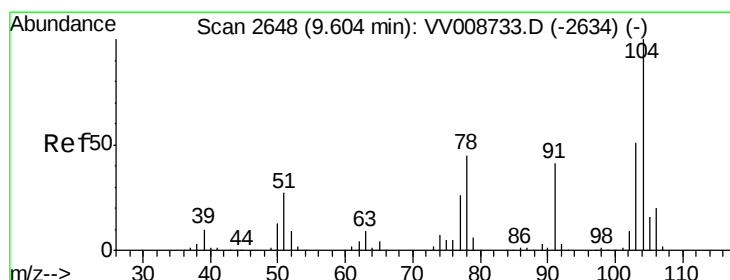
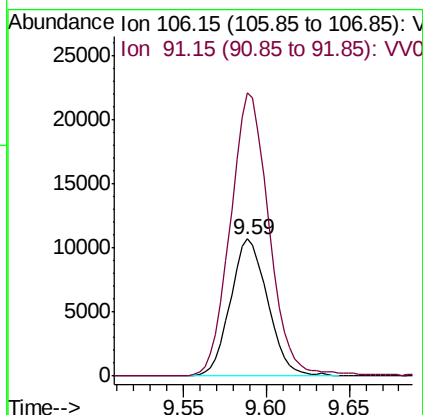
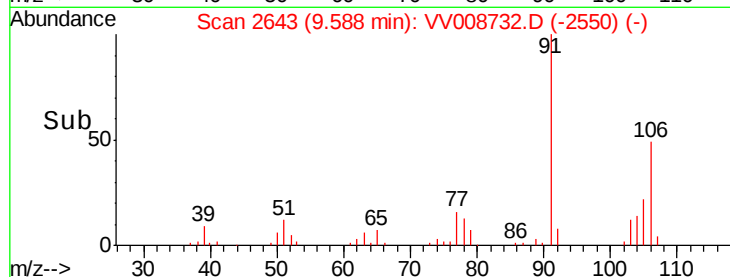
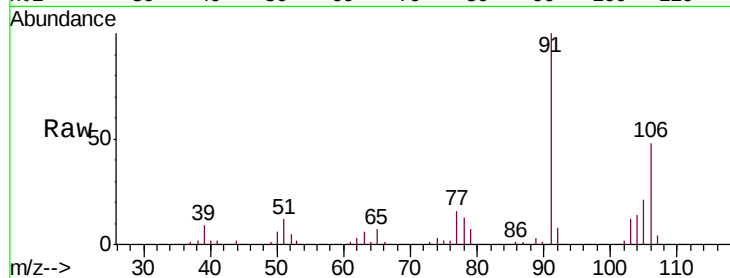




#54  
o-xylene  
Concen: 0.848 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

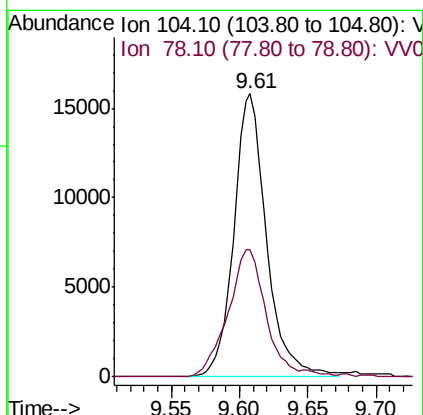
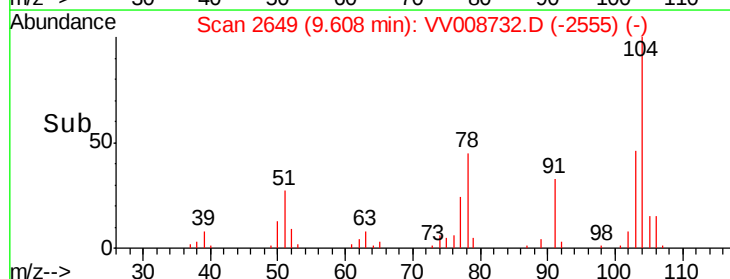
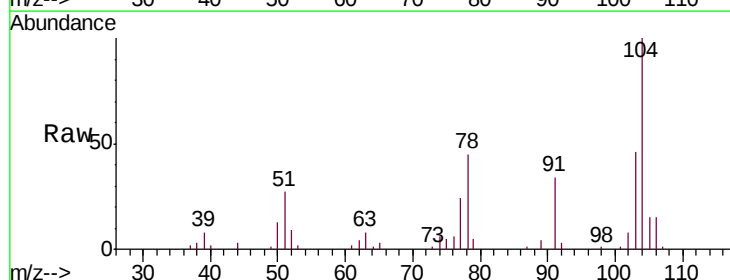
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00163

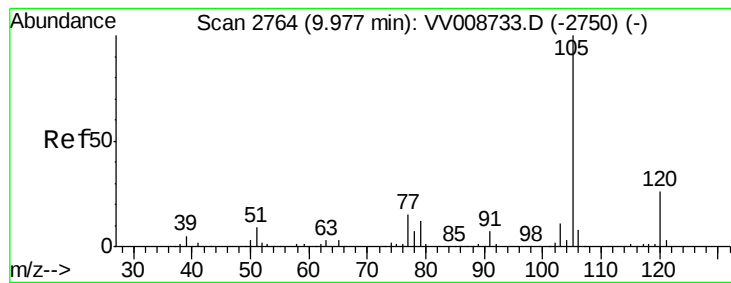
Tgt Ion:106 Resp: 16797  
Ion Ratio Lower Upper  
106 100  
91 206.4 152.0 282.4



#55  
Styrene  
Concen: 0.822 ug/L  
RT: 9.61 min Scan# 2649  
Delta R.T. 0.00 min  
Lab File: VV008732.D  
Acq: 28 Nov 2018 12:58

Tgt Ion:104 Resp: 26300  
Ion Ratio Lower Upper  
104 100  
78 44.9 31.4 58.2





#56

Isopropylbenzene

Concen: 0.829 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

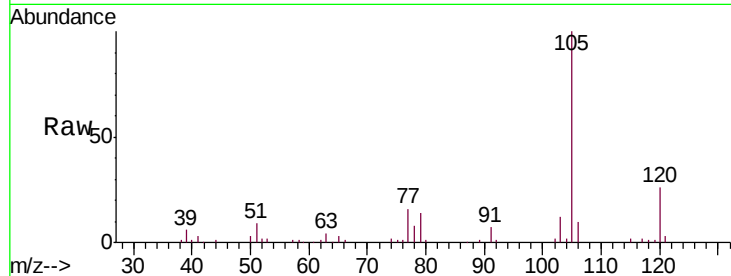
Tgt Ion: 105 Resp: 43960

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.2

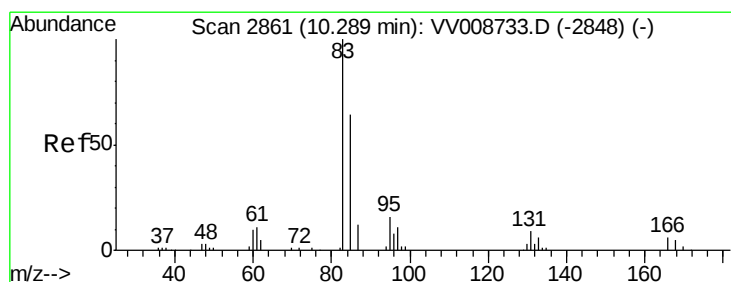
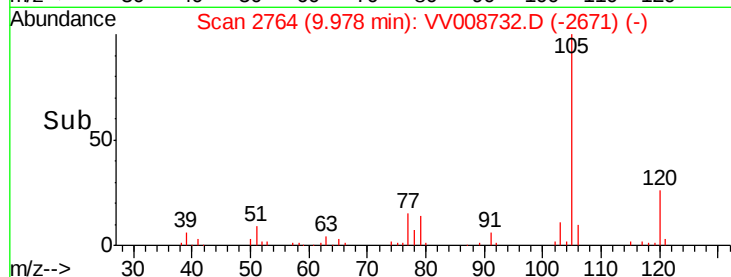
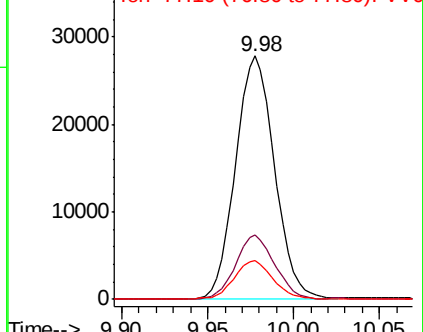
77 15.9 12.4 18.6



Abundance Ion 105.05 (104.75 to 105.75): VV008732.D (-2750) (-)

Ion 120.10 (119.80 to 120.80): VV008732.D (-2750) (-)

Ion 77.10 (76.80 to 77.80): VV008732.D (-2750) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 0.795 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

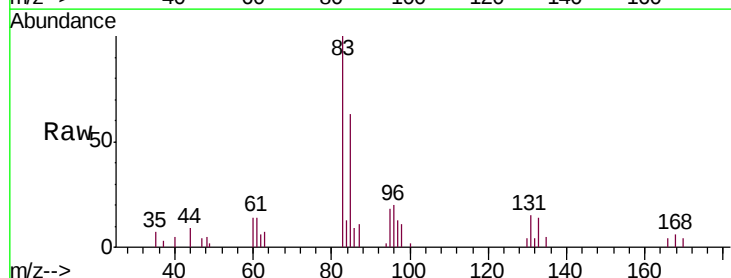
Tgt Ion: 83 Resp: 7404

Ion Ratio Lower Upper

83 100

85 62.8 44.9 83.3

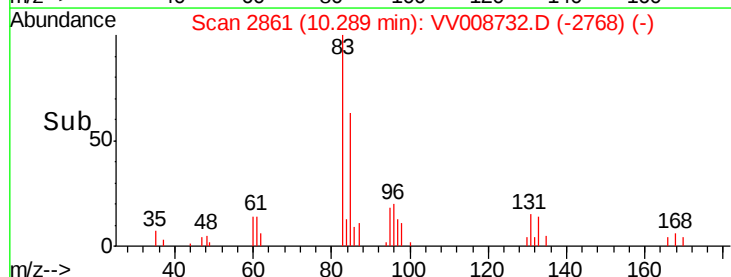
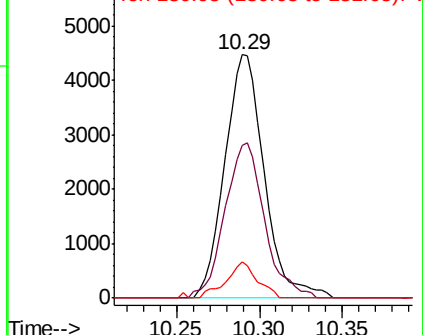
131 14.8 7.8 11.8#

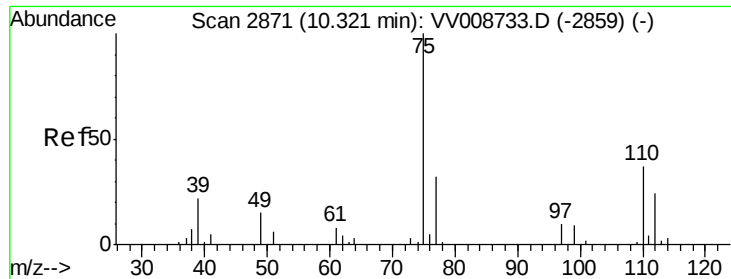


Abundance Ion 82.95 (82.65 to 83.65): VV008732.D (-2768) (-)

Ion 85.00 (84.70 to 85.70): VV008732.D (-2768) (-)

Ion 130.95 (130.65 to 131.65): VV008732.D (-2768) (-)

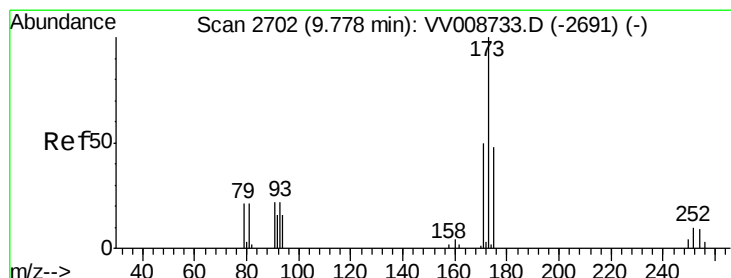
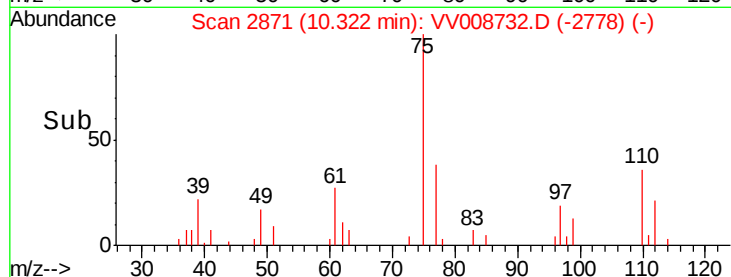
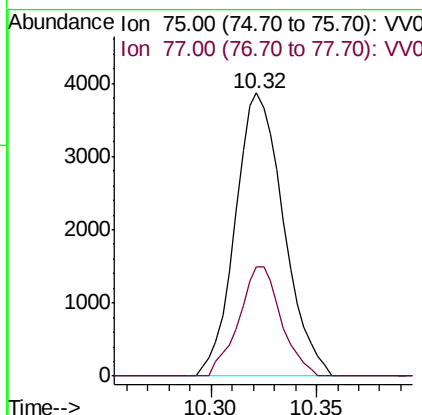
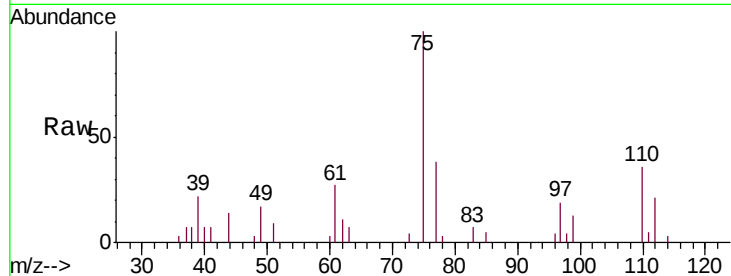




#59  
 1,2,3-Trichloropropane  
 Concen: 0.867 ug/L  
 RT: 10.32 min Scan# 2871  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

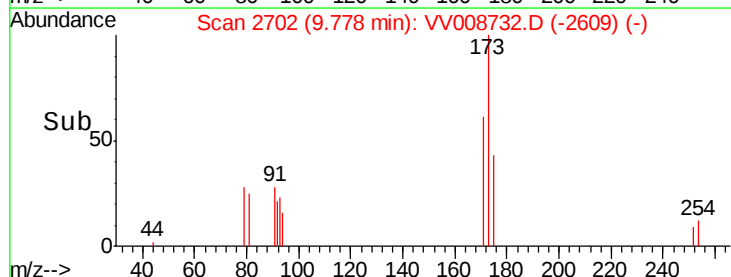
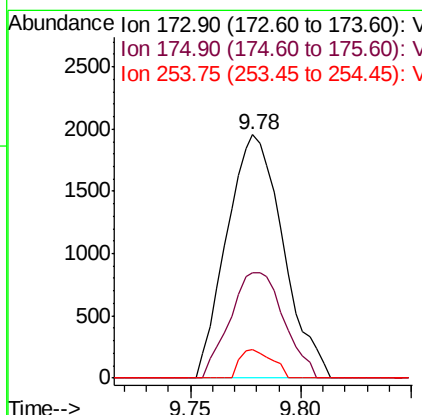
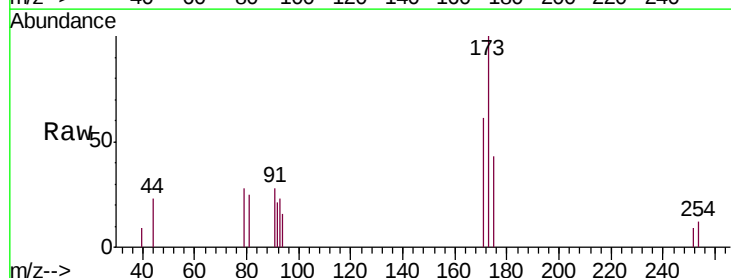
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

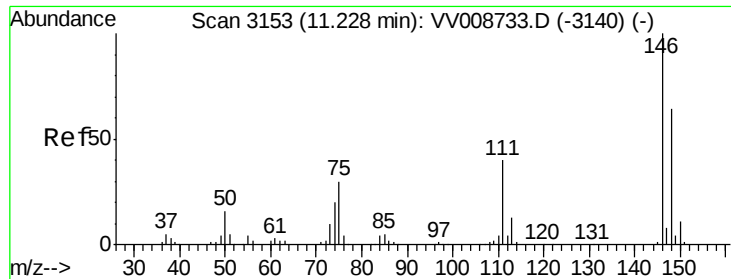
Tgt Ion: 75 Resp: 6145  
 Ion Ratio Lower Upper  
 75 100  
 77 33.9 26.6 39.8



#61  
 Bromoform  
 Concen: 0.802 ug/L  
 RT: 9.78 min Scan# 2702  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion: 173 Resp: 3452  
 Ion Ratio Lower Upper  
 173 100  
 175 41.5 38.4 57.6  
 254 6.7 6.6 10.0

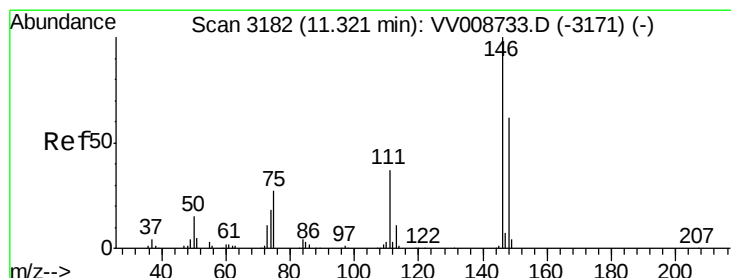
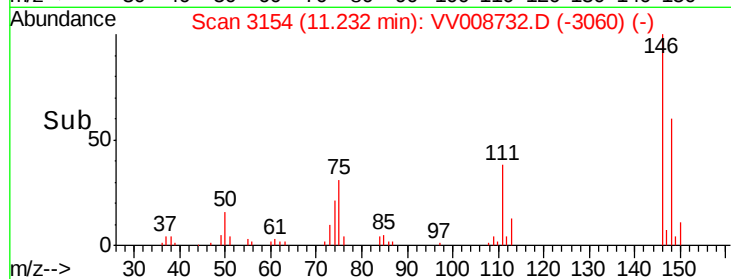
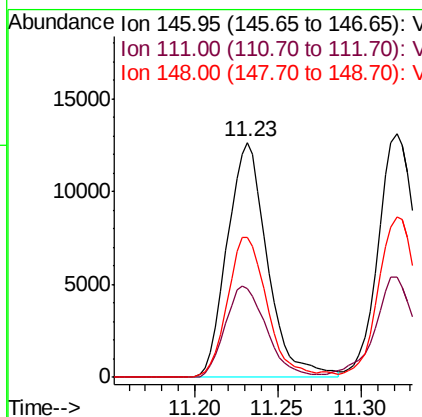
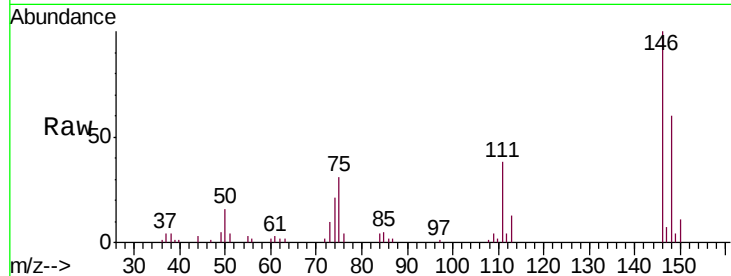




#62  
 1,3-Dichlorobenzene  
 Concen: 0.964 ug/L  
 RT: 11.23 min Scan# 3154  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

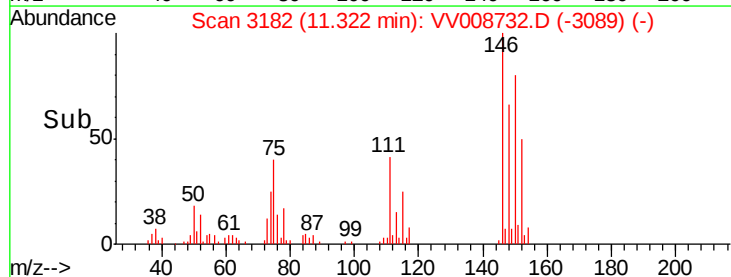
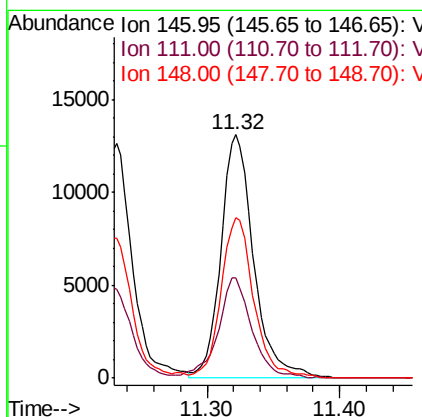
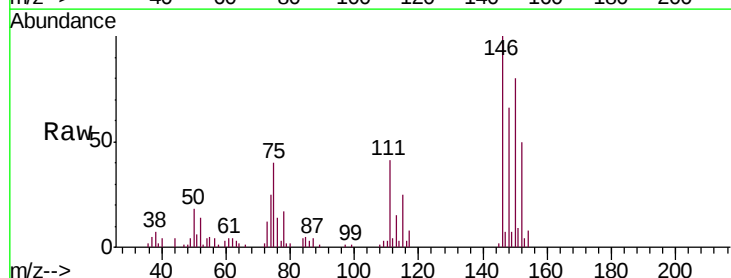
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

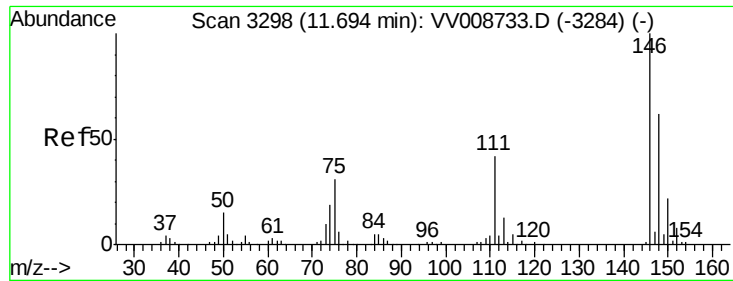
Tgt Ion:146 Resp: 21307  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 27.9 51.7  
 148 59.7 44.7 82.9



#63  
 1,4-Dichlorobenzene  
 Concen: 1.027 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion:146 Resp: 22520  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 26.2 48.8  
 148 65.7 43.6 81.0





#65

1,2-Dichlorobenzene

Concen: 0.978 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

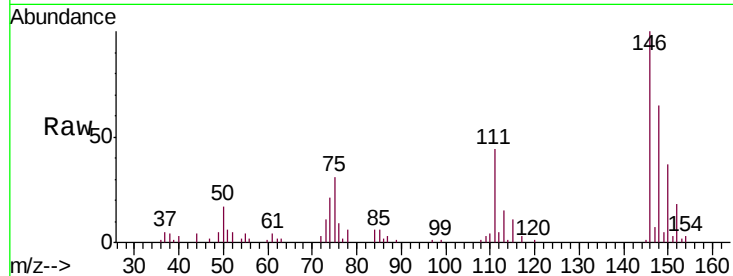
Tgt Ion:146 Resp: 20605

Ion Ratio Lower Upper

146 100

111 44.0 33.6 50.4

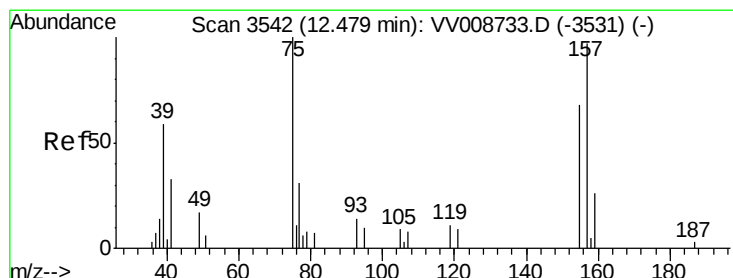
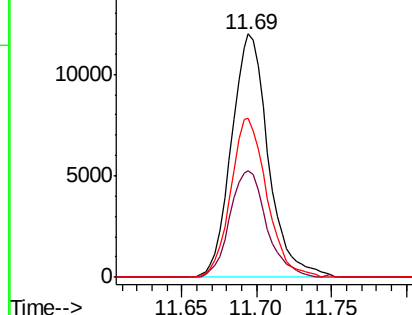
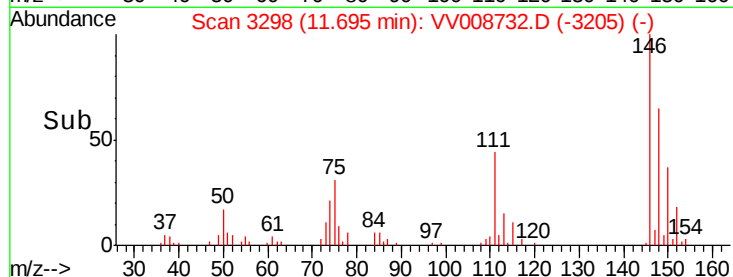
148 65.4 49.8 74.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.743 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

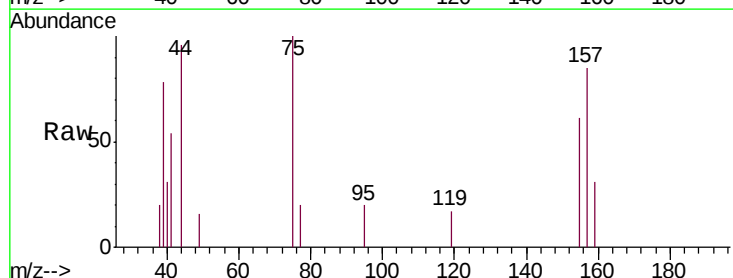
Tgt Ion: 75 Resp: 979

Ion Ratio Lower Upper

75 100

155 61.1 54.1 81.1

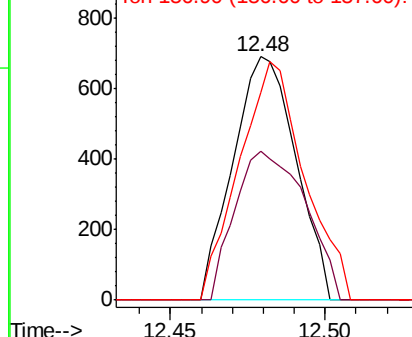
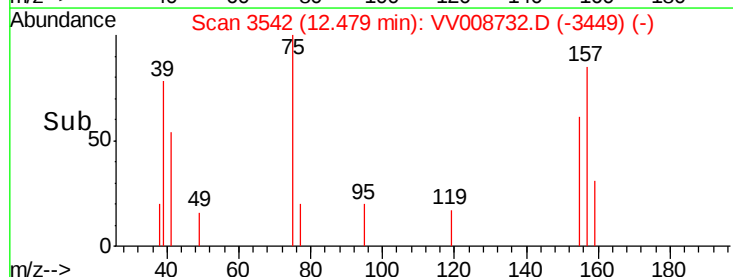
157 85.3 77.4 116.2

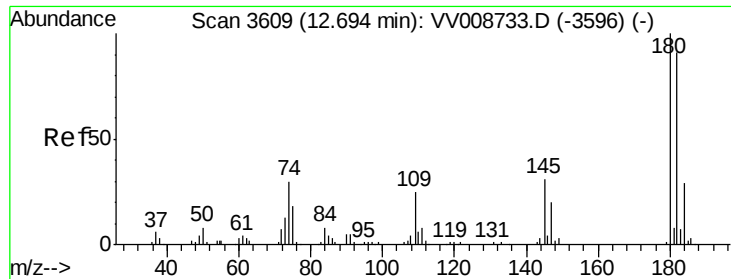


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

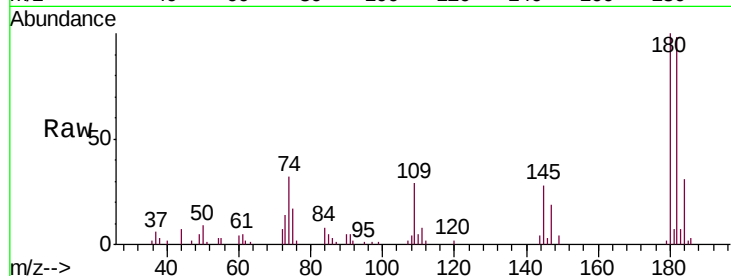




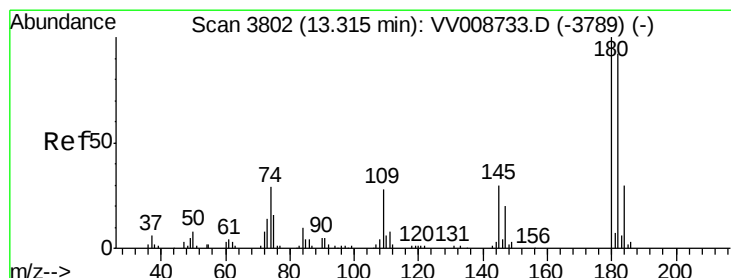
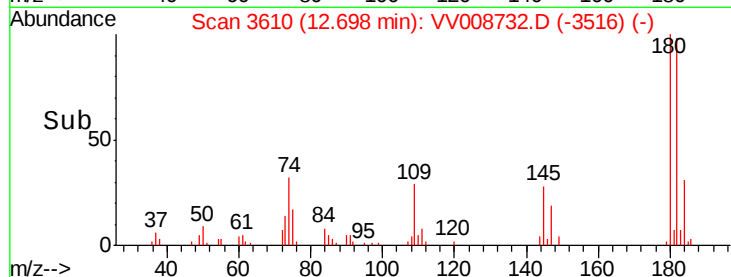
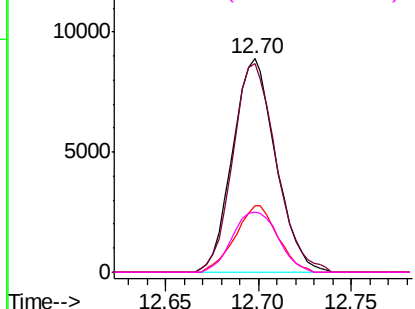
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.893 ug/L  
 RT: 12.70 min Scan# 3610  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00163

Tgt Ion:180 Resp: 14423  
 Ion Ratio Lower Upper  
 180 100  
 182 98.3 74.3 111.5  
 184 30.6 23.4 35.0  
 145 30.0 24.8 37.2

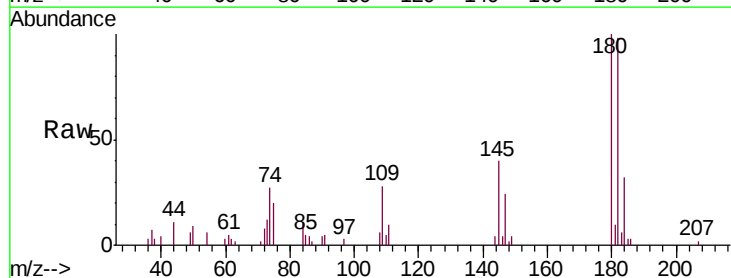


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

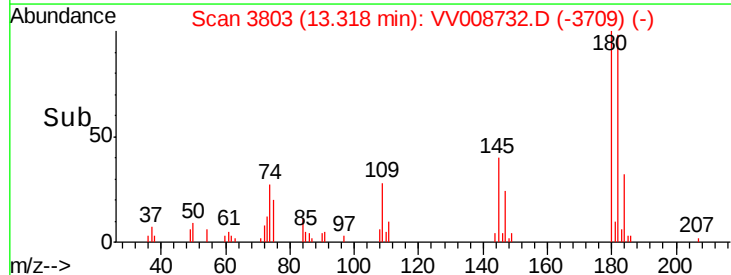
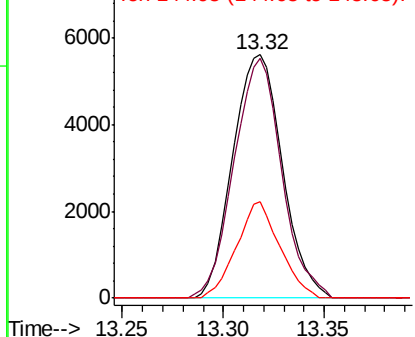


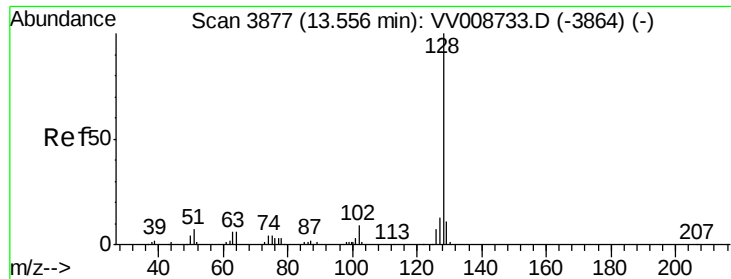
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.754 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.00 min  
 Lab File: VV008732.D  
 Acq: 28 Nov 2018 12:58

Tgt Ion:180 Resp: 9683  
 Ion Ratio Lower Upper  
 180 100  
 182 94.6 74.4 111.6  
 145 34.4 23.8 35.8



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: 0.615 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00163

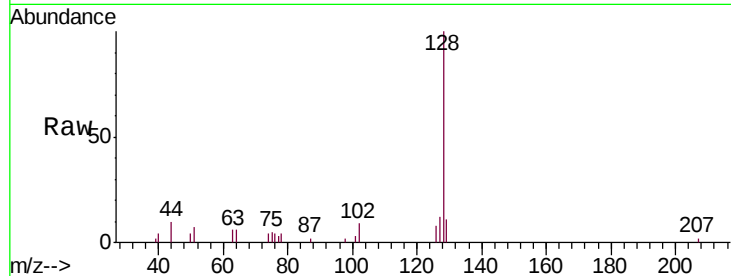
Tgt Ion:128 Resp: 12416

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

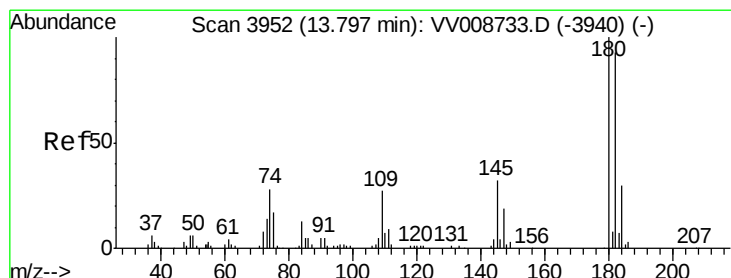
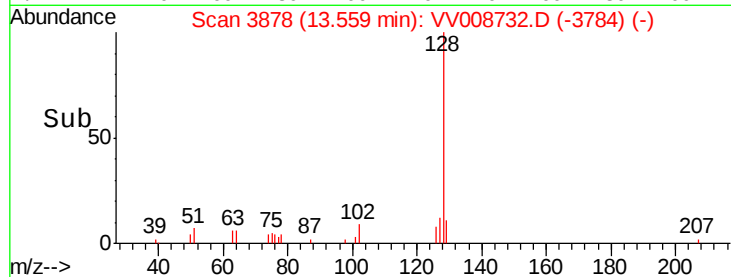
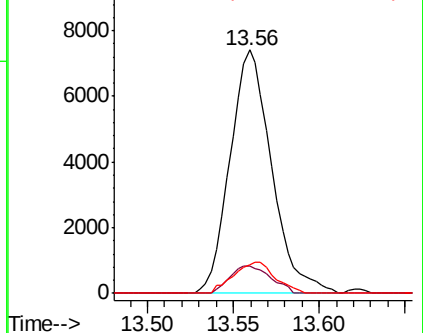
127 12.8 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.755 ug/L

RT: 13.80 min Scan# 3953

Delta R.T. 0.00 min

Lab File: VV008732.D

Acq: 28 Nov 2018 12:58

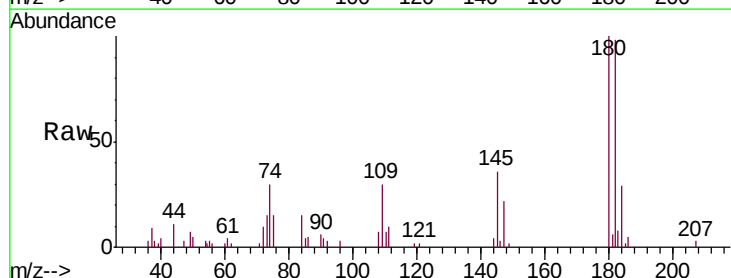
Tgt Ion:180 Resp: 8929

Ion Ratio Lower Upper

180 100

182 100.1 75.4 113.2

145 36.9 27.2 40.8



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

