

Data File : VV008737.D  
Acq On : 28 Nov 2018 15:09  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25.0 mL/MSVOA\_V/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Quant Time: Nov 29 03:14:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 29 03:08:57 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 169098   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 154910   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 73980    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 45133    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.00%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 35774    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.20% |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 87348    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.20%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 124384   | 47.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 94.22%  |
| 24) Chloroform-d               | 4.41   | 84    | 108041   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 52391    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%  |
| 32) Benzene-d6                 | 5.10   | 84    | 217532   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 65024    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.80%  |
| 41) Toluene-d8                 | 7.36   | 98    | 203968   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 23936    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.00%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 91730    | 48.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.88%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 44475    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 69260    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 73251  | 5.042 ug/L  | 98     |
| 3) Chloromethane               | 1.25 | 50  | 57560  | 4.954 ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 57853  | 5.008 ug/L  | 100    |
| 6) Bromomethane                | 1.54 | 94  | 34924  | 5.412 ug/L  | 92     |
| 8) Chloroethane                | 1.60 | 64  | 32688  | 5.780 ug/L  | 94     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 82658  | 5.151 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 48426  | 5.127 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 41138  | 4.873 ug/L  | 90     |
| 13) Acetone                    | 2.22 | 43  | 64499  | 49.519 ug/L | 96     |
| 14) Carbon disulfide           | 2.32 | 76  | 128570 | 4.980 ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 16037  | 4.682 ug/L  | 96     |
| 16) Methylene chloride         | 2.54 | 84  | 44351  | 4.723 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 100882 | 5.044 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 46208  | 5.079 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 103979 | 5.084 ug/L  | 97     |
| 21) 2-Butanone                 | 4.05 | 43  | 136422 | 51.073 ug/L | 96     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 62313  | 4.972 ug/L  | 94     |

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Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Quant Time: Nov 29 03:14:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 29 03:08:57 2018  
Response via : Initial Calibration

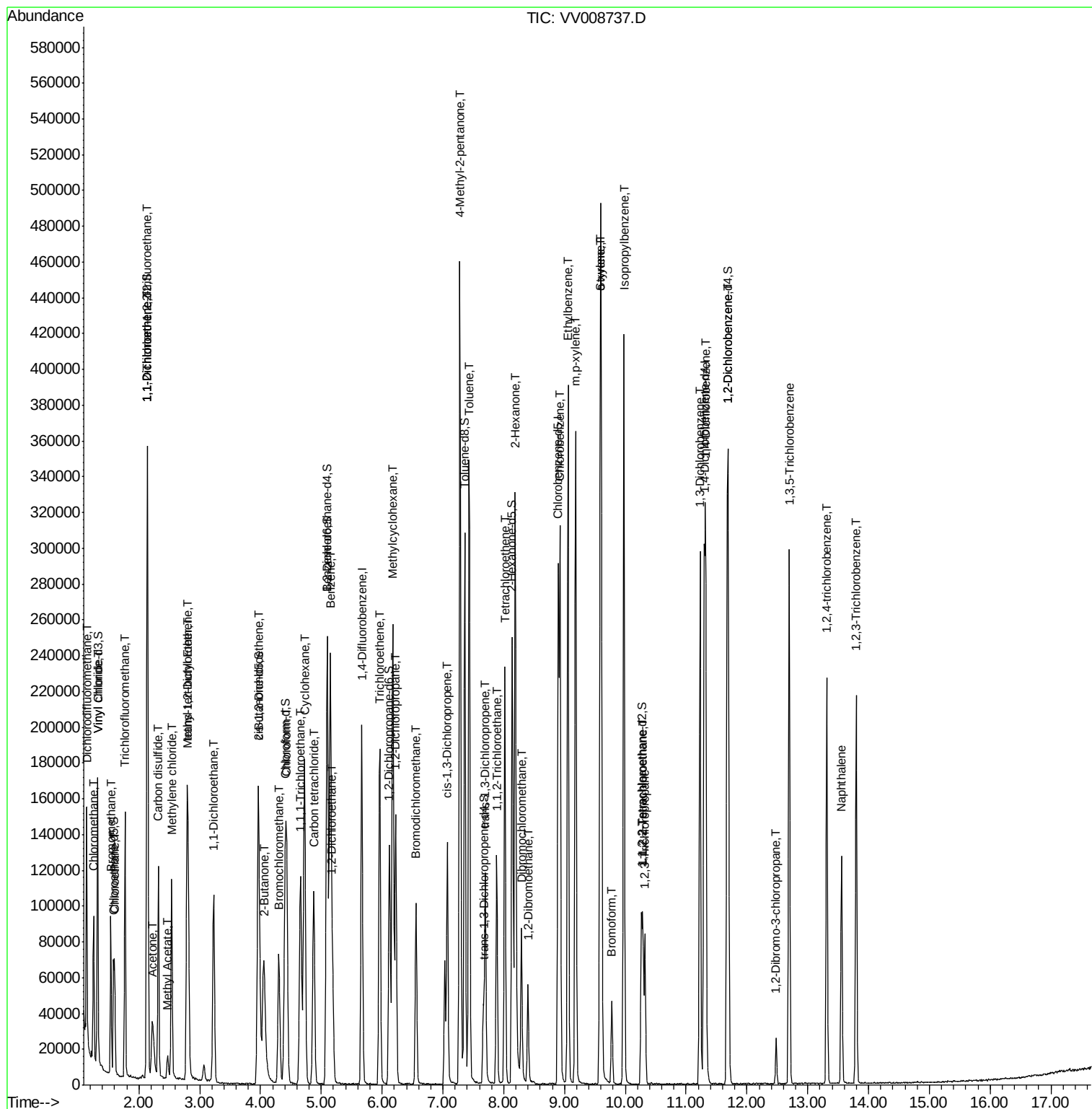
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 26267    | 5.090  | ug/L   | 99       |
| 25) Chloroform                 | 4.43  | 83   | 107085   | 4.929  | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 63923    | 5.178  | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 93096    | 5.126  | ug/L   | 98       |
| 30) Cyclohexane                | 4.72  | 56   | 100643   | 5.208  | ug/L   | 98       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 78818    | 5.182  | ug/L   | 100      |
| 33) Benzene                    | 5.15  | 78   | 236268   | 5.060  | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 64868    | 5.044  | ug/L   | 98       |
| 35) Methylcyclohexane          | 6.18  | 83   | 106468   | 5.196  | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 57145    | 4.897  | ug/L   | 99       |
| 38) Bromodichloromethane       | 6.56  | 83   | 66698    | 5.037  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 80280    | 5.162  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 318251   | 52.203 | ug/L   | 99       |
| 42) Toluene                    | 7.43  | 91   | 250309   | 5.182  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 64354    | 5.294  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 38513    | 4.952  | ug/L   | 95       |
| 47) Tetrachloroethene          | 8.02  | 164  | 49966    | 5.154  | ug/L   | 98       |
| 48) 2-Hexanone                 | 8.19  | 43   | 226190   | 53.591 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.29  | 129  | 42792    | 5.240  | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 35816    | 5.118  | ug/L # | 96       |
| 51) Chlorobenzene              | 8.93  | 112  | 161538   | 4.612  | ug/L   | 98       |
| 52) Ethylbenzene               | 9.06  | 91   | 273774   | 5.200  | ug/L   | 98       |
| 53) m,p-xylene                 | 9.18  | 106  | 102689   | 5.199  | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 98447    | 5.180  | ug/L   | 98       |
| 55) Styrene                    | 9.60  | 104  | 165605   | 5.312  | ug/L   | 98       |
| 56) Isopropylbenzene           | 9.98  | 105  | 266852   | 5.281  | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 43289    | 5.220  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 33346    | 5.080  | ug/L   | 100      |
| 61) Bromoform                  | 9.78  | 173  | 20351    | 5.031  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 120755   | 5.082  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 123801   | 4.840  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 113790   | 4.786  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 6290     | 5.252  | ug/L # | 88       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 90524    | 5.241  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 70465    | 5.547  | ug/L   | 99       |
| 69) Naphthalene                | 13.56 | 128  | 102038   | 5.520  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 65975    | 5.729  | ug/L   | 99       |

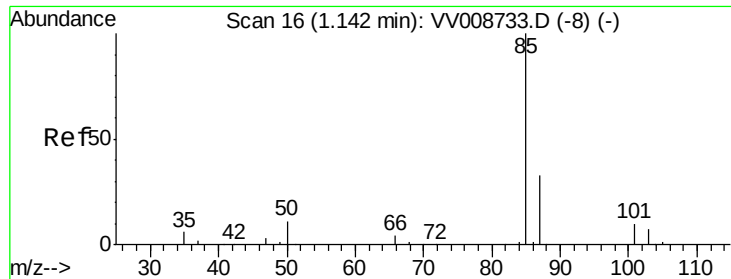
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV008737.D  
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MSVOA\_V  
ClientSampleId :  
VSTD00568

Quant Time: Nov 29 03:14:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 29 03:08:57 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.042 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

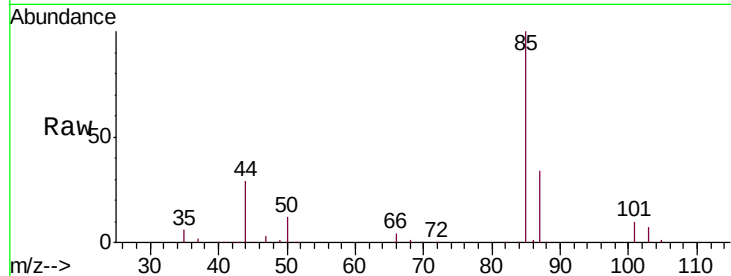
VSTD00568

Tgt Ion: 85 Resp: 73251

Ion Ratio Lower Upper

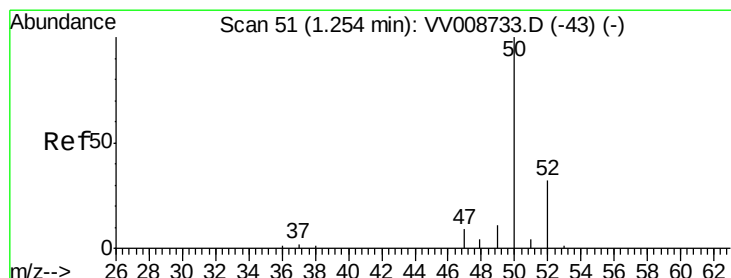
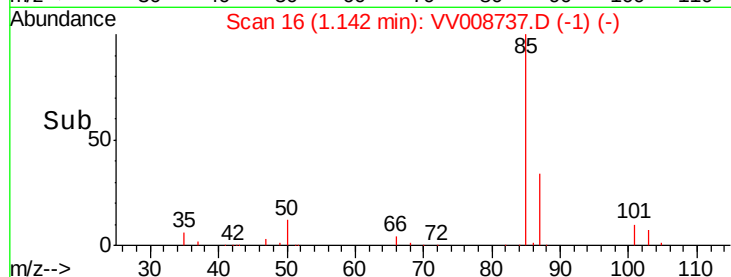
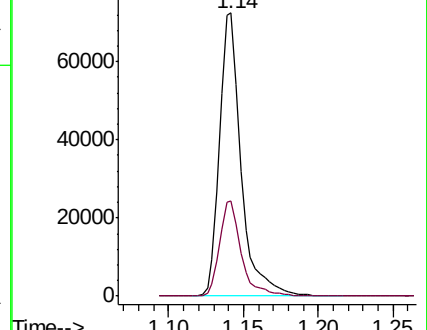
85 100

87 33.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV008737.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008737.D (-8) (-)



#3

Chloromethane

Concen: 4.954 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008737.D

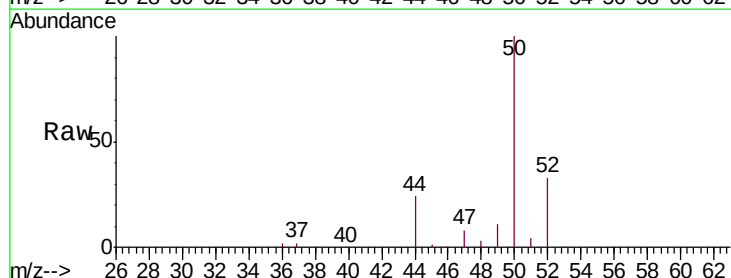
Acq: 28 Nov 2018 15:09

Tgt Ion: 50 Resp: 57560

Ion Ratio Lower Upper

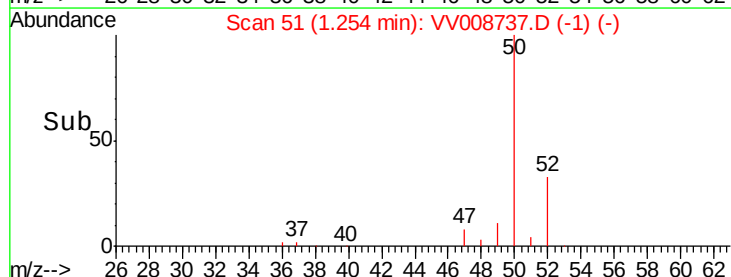
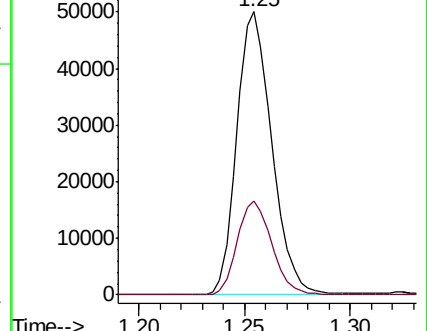
50 100

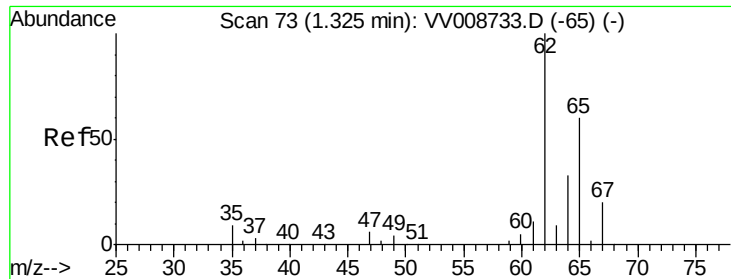
52 33.3 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV008737.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008737.D (-43) (-)





#5

Vinyl chloride

Concen: 5.008 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

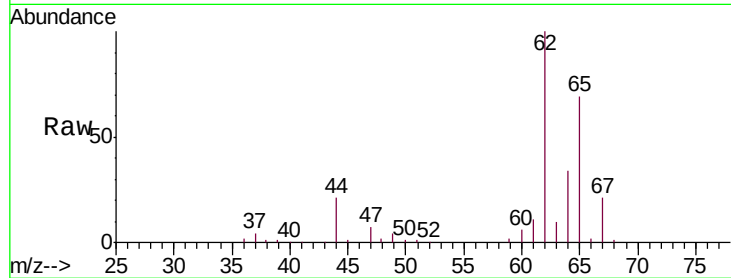
VSTD00568

Tgt Ion: 62 Resp: 57853

Ion Ratio Lower Upper

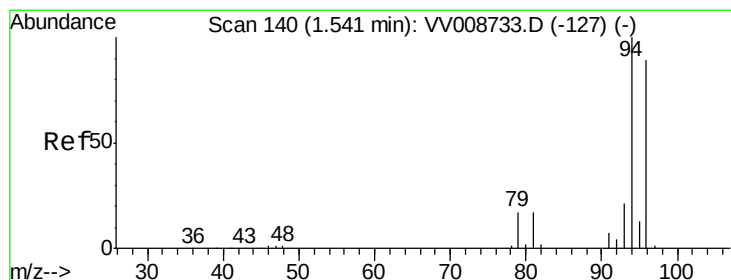
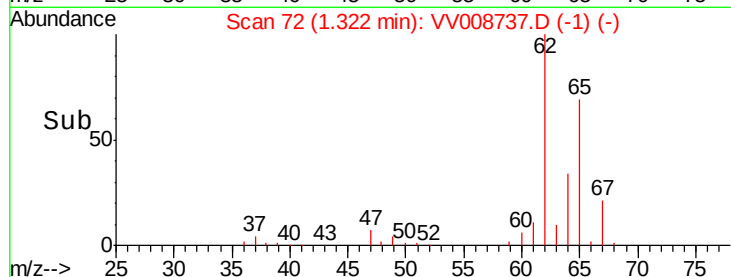
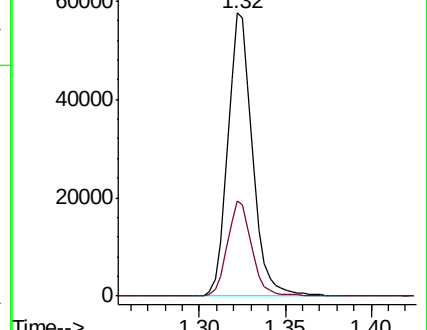
62 100

64 33.6 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV008737.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV008737.D (-65) (-)



#6

Bromomethane

Concen: 5.412 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008737.D

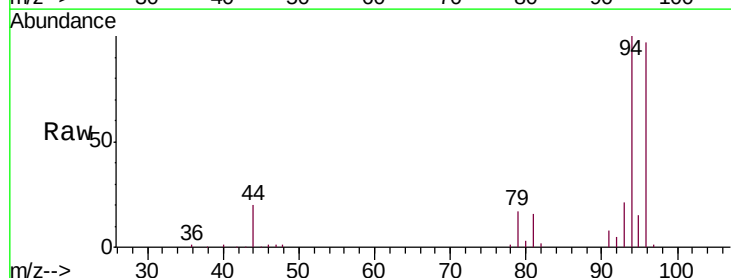
Acq: 28 Nov 2018 15:09

Tgt Ion: 94 Resp: 34924

Ion Ratio Lower Upper

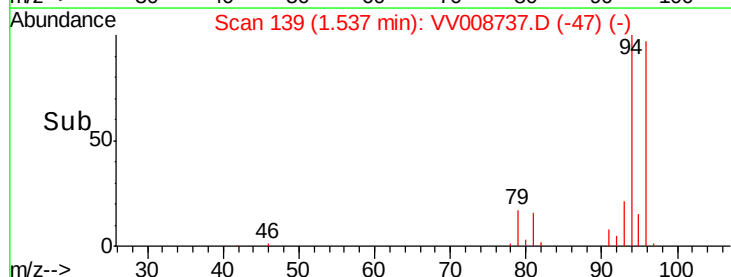
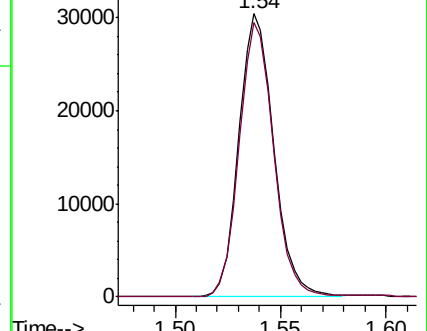
94 100

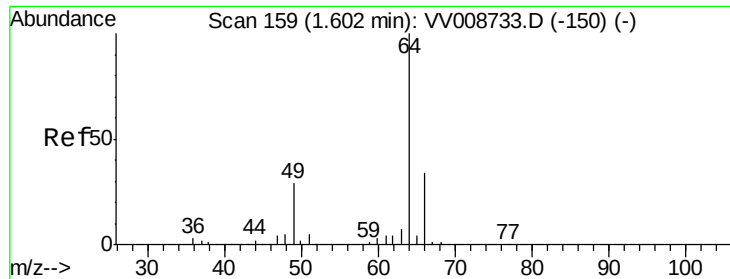
96 97.0 62.6 116.2



Abundance Ion 94.00 (93.70 to 94.70): VV008737.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VV008737.D (-127) (-)

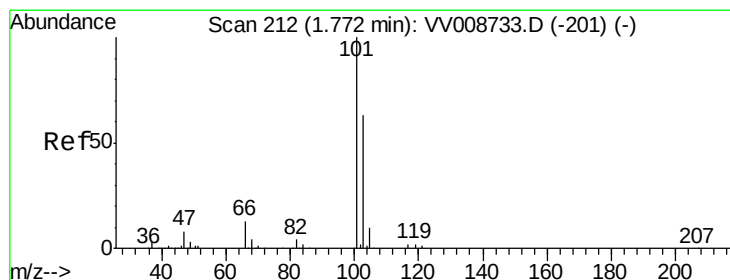
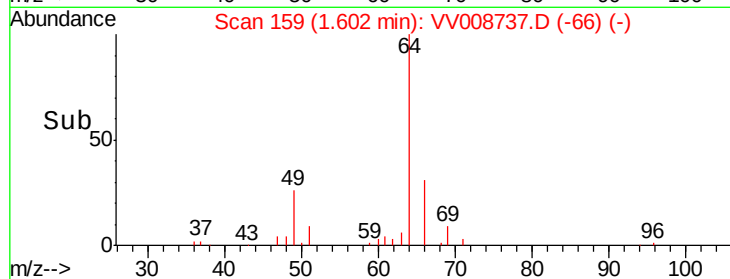
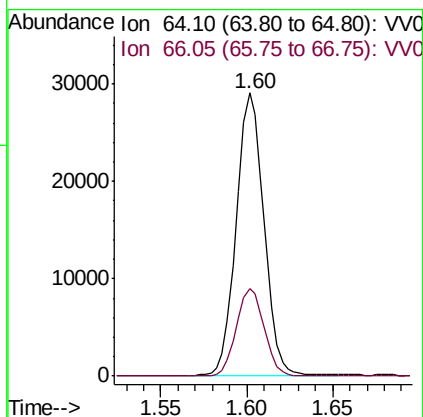
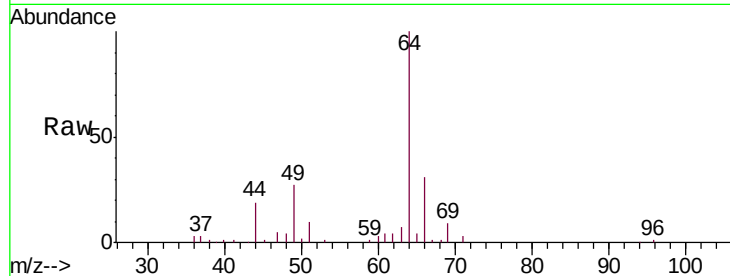




#8  
Chloroethane  
Concen: 5.780 ug/L  
RT: 1.60 min Scan# 159  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

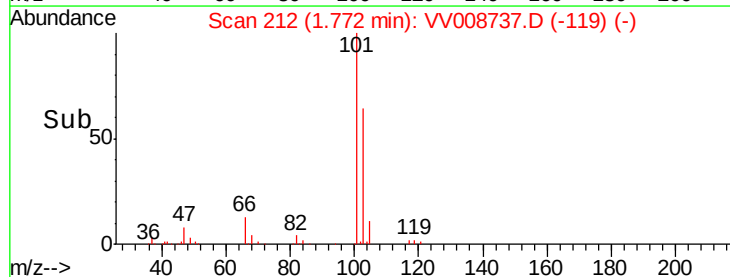
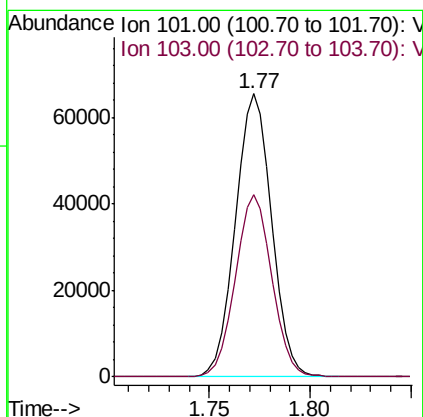
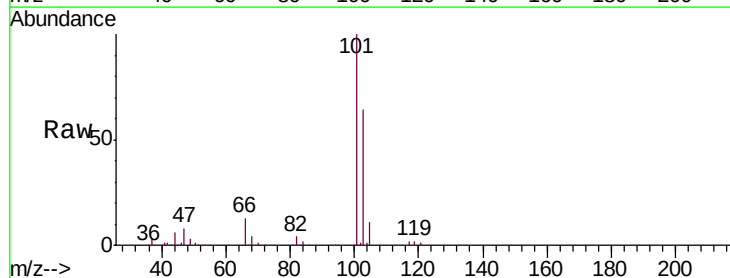
Instrument :  
MSVOA\_V  
ClientSampleId :  
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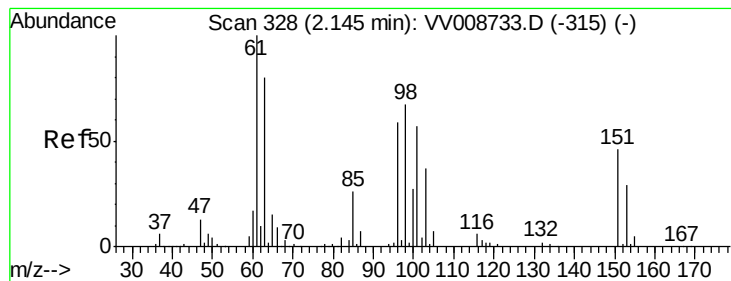
Tgt Ion: 64 Resp: 32688  
Ion Ratio Lower Upper  
64 100  
66 31.0 24.0 44.6



#9  
Trichlorofluoromethane  
Concen: 5.151 ug/L  
RT: 1.77 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion: 101 Resp: 82658  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.8 77.6





#10

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

Concen: 5.127 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

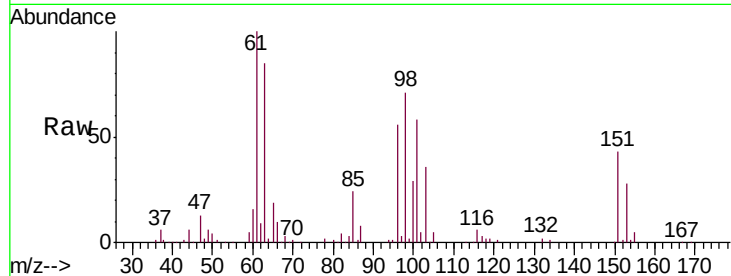
Tgt Ion: 101 Resp: 48426

Ion Ratio Lower Upper

101 100

85 42.2 34.8 52.2

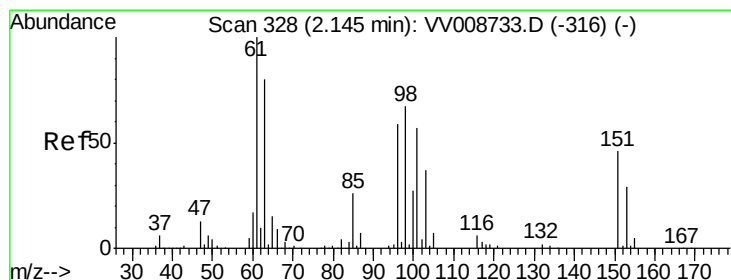
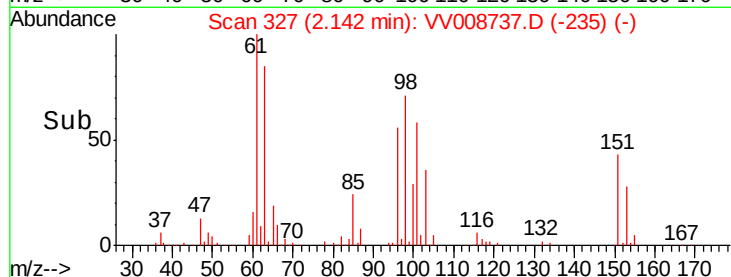
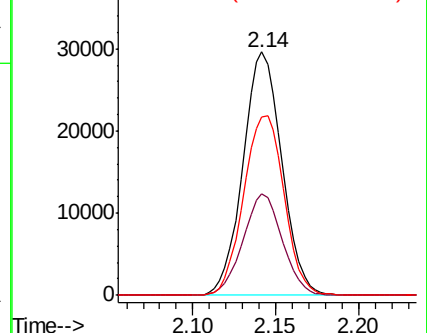
151 76.7 62.6 94.0



Abundance Ion 101.00 (100.70 to 101.70): VV008737.D (-315) (-)

Ion 85.00 (84.70 to 85.70): VV008737.D (-315) (-)

Ion 151.00 (150.70 to 151.70): VV008737.D (-315) (-)



#12

1,1-Dichloroethene

Concen: 4.873 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

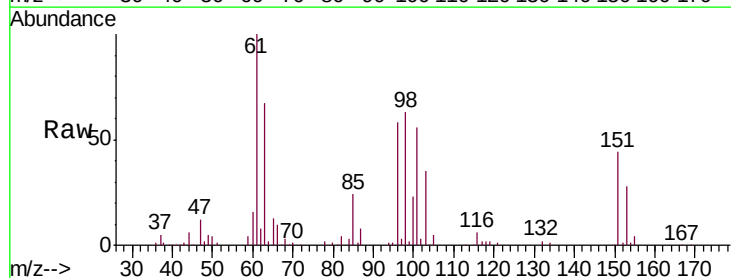
Tgt Ion: 96 Resp: 41138

Ion Ratio Lower Upper

96 100

61 172.9 118.0 219.2

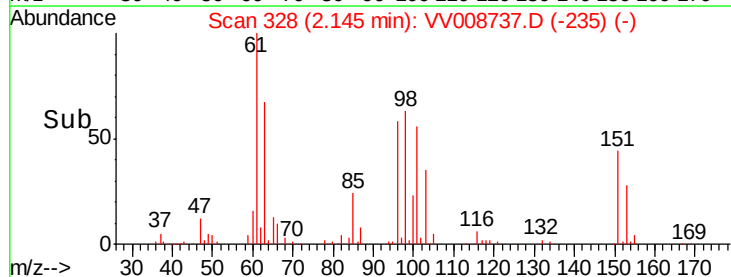
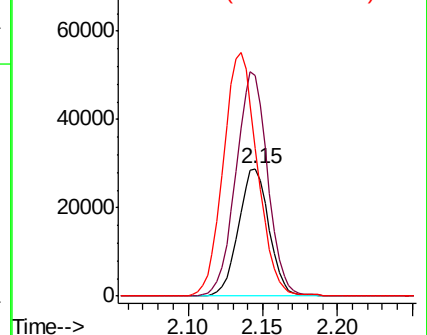
63 115.4 95.3 177.1

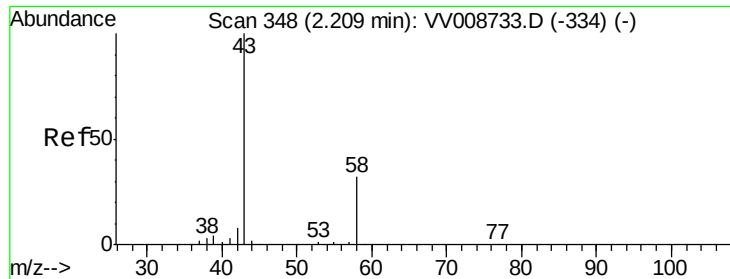


Abundance Ion 96.00 (95.70 to 96.70): VV008737.D (-316) (-)

Ion 61.05 (60.75 to 61.75): VV008737.D (-316) (-)

Ion 63.00 (62.70 to 63.70): VV008737.D (-316) (-)





#13

Acetone

Concen: 49.519 ug/L

RT: 2.22 min Scan# 352

Delta R.T. 0.01 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

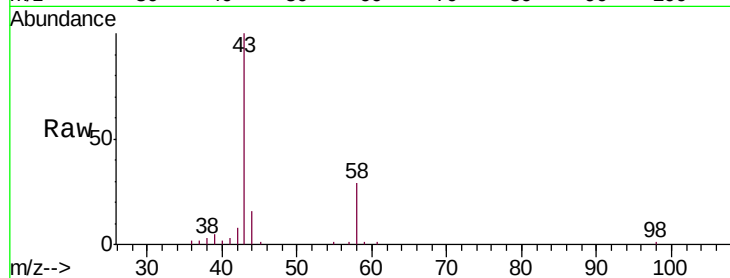
VSTD00568

Tgt Ion: 43 Resp: 64499

Ion Ratio Lower Upper

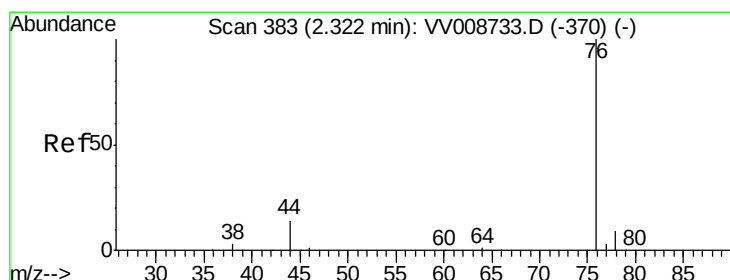
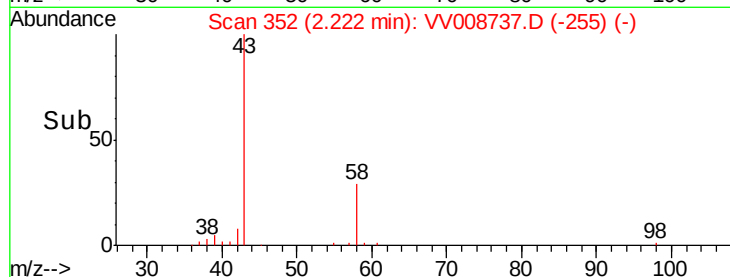
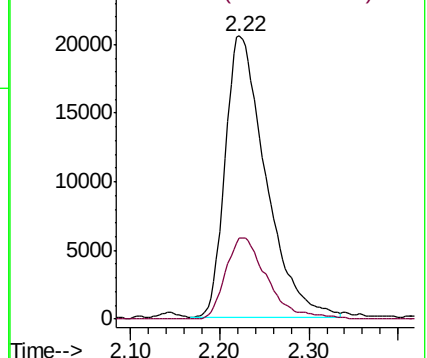
43 100

58 29.8 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VV008737.D (-352) (-)

Ion 58.05 (57.75 to 58.75): VV008737.D (-352) (-)



#14

Carbon disulfide

Concen: 4.980 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008737.D

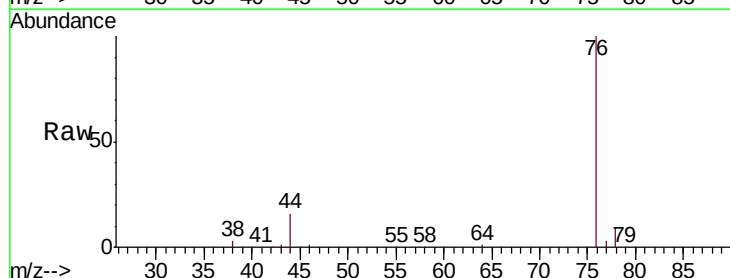
Acq: 28 Nov 2018 15:09

Tgt Ion: 76 Resp: 128570

Ion Ratio Lower Upper

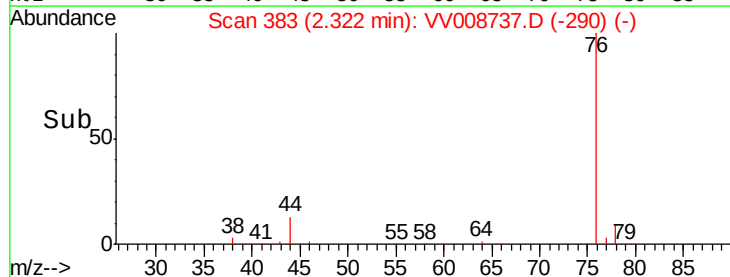
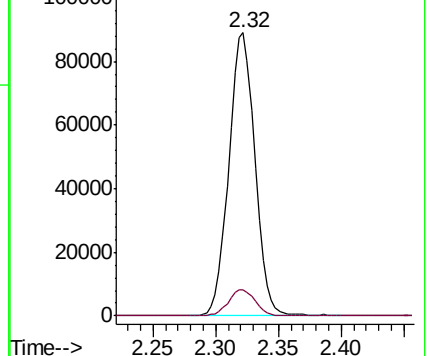
76 100

78 9.0 7.3 10.9

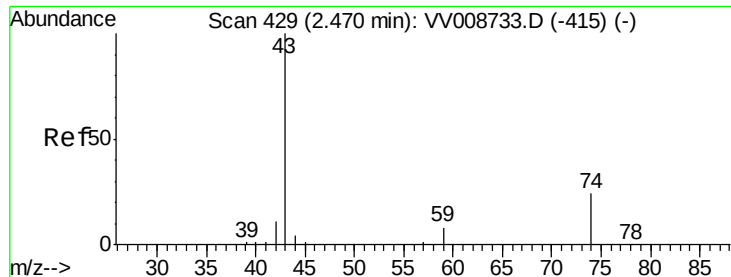


Abundance Ion 76.05 (75.75 to 76.75): VV008737.D (-383) (-)

Ion 78.00 (77.70 to 78.70): VV008737.D (-383) (-)







#15

Methyl Acetate

Concen: 4.682 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

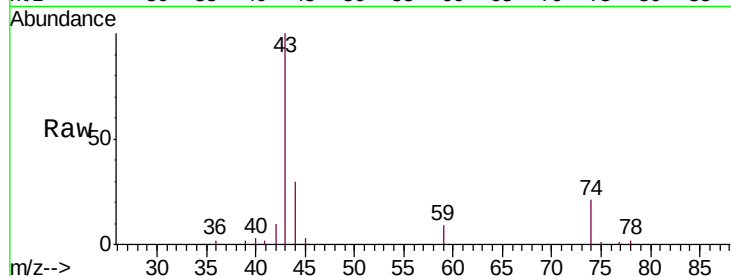
VSTD00568

Tgt Ion: 43 Resp: 16037

Ion Ratio Lower Upper

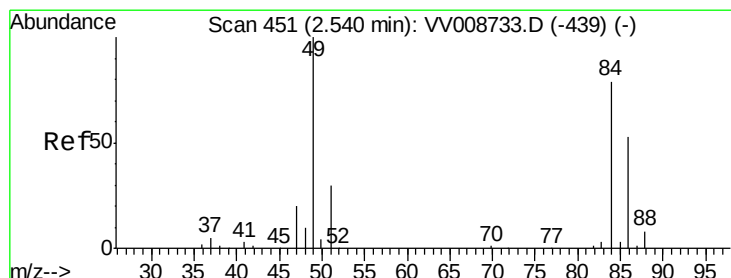
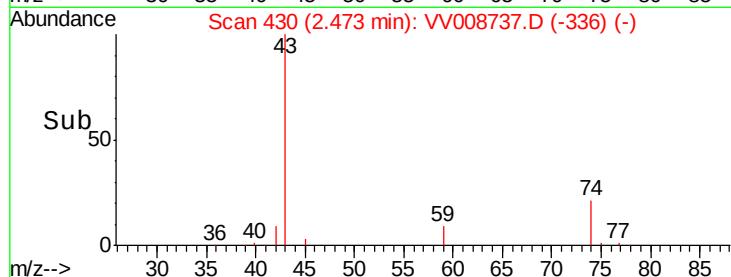
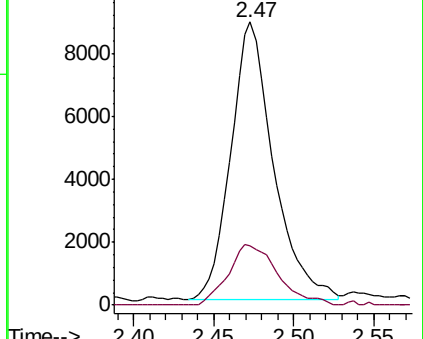
43 100

74 25.3 18.6 27.8



Abundance Ion 43.05 (42.75 to 43.75): VV008737.D (-336) (-)

Ion 74.05 (73.75 to 74.75): VV008737.D (-336) (-)



#16

Methylene chloride

Concen: 4.723 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

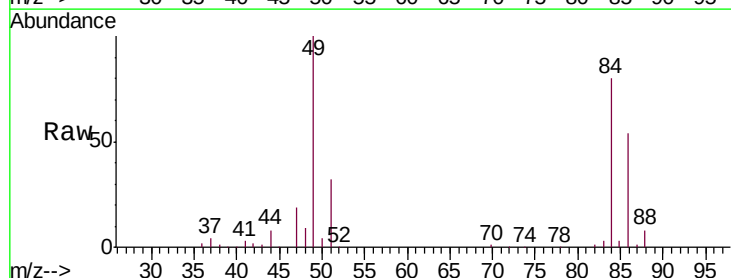
Tgt Ion: 84 Resp: 44351

Ion Ratio Lower Upper

84 100

86 67.8 47.3 87.9

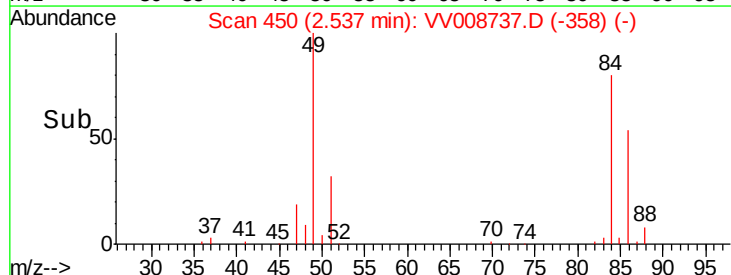
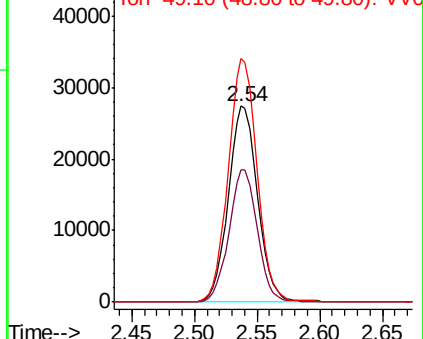
49 124.4 88.8 165.0

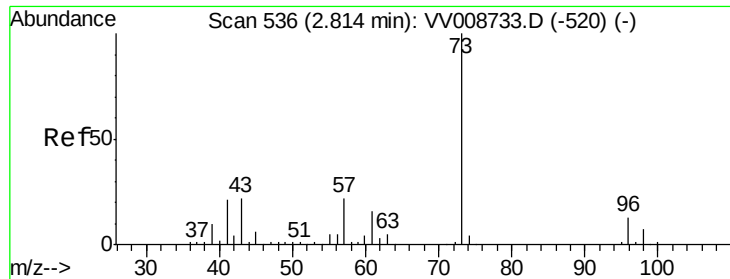


Abundance Ion 84.05 (83.75 to 84.75): VV008737.D (-358) (-)

Ion 86.00 (85.70 to 86.70): VV008737.D (-358) (-)

Ion 49.10 (48.80 to 49.80): VV008737.D (-358) (-)

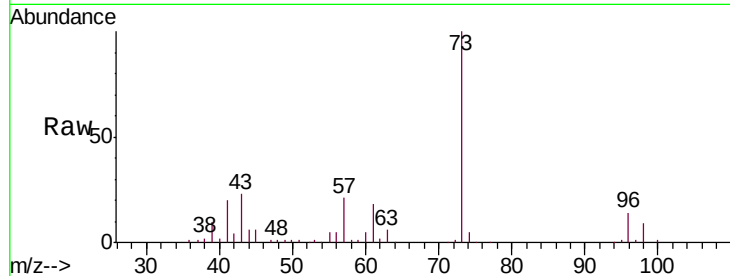




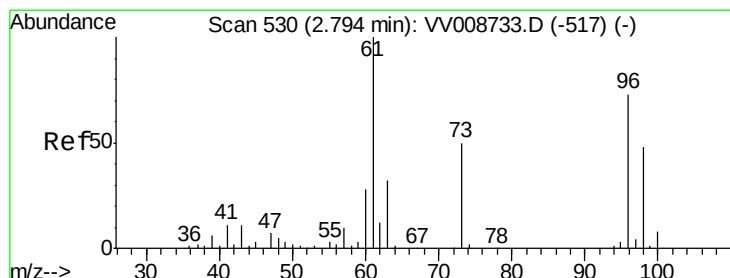
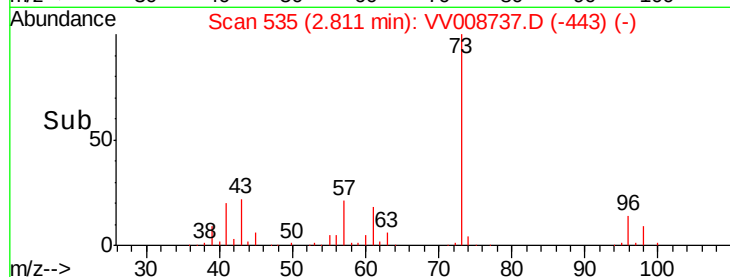
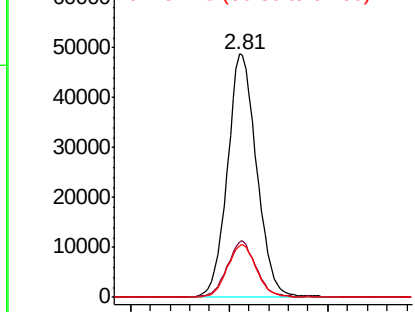
#17  
Methyl tert-butyl Ether  
Concen: 5.044 ug/L  
RT: 2.81 min Scan# 535  
Delta R.T. -0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Tgt Ion: 73 Resp: 100882  
Ion Ratio Lower Upper  
73 100  
43 22.5 17.9 26.9  
57 21.6 17.4 26.0

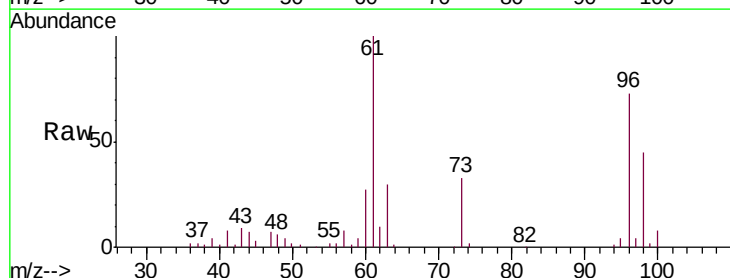


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

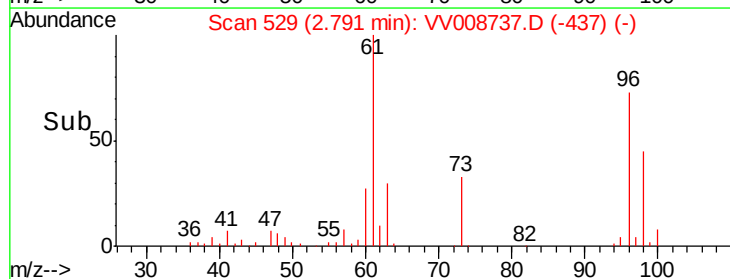
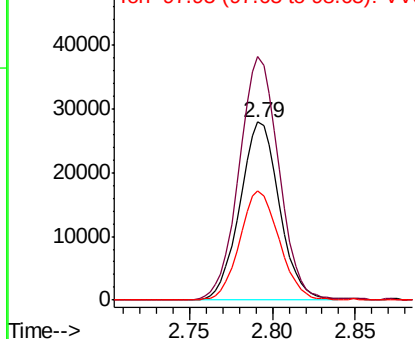


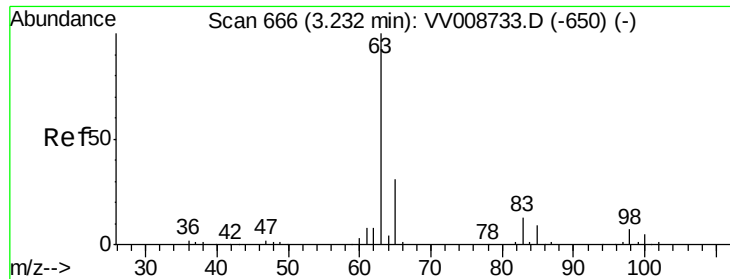
#18  
trans-1,2-Dichloroethene  
Concen: 5.079 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion: 96 Resp: 46208  
Ion Ratio Lower Upper  
96 100  
61 137.0 96.5 179.1  
98 61.5 46.3 86.1



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 97.95 (97.65 to 98.65): VV0

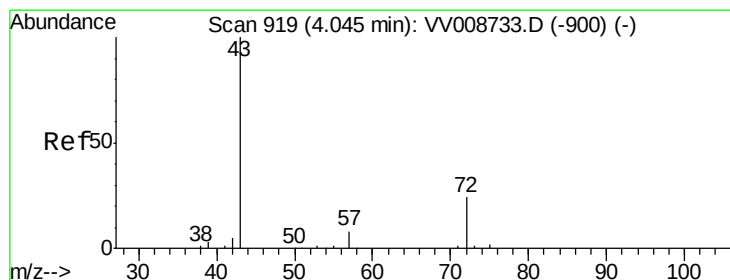
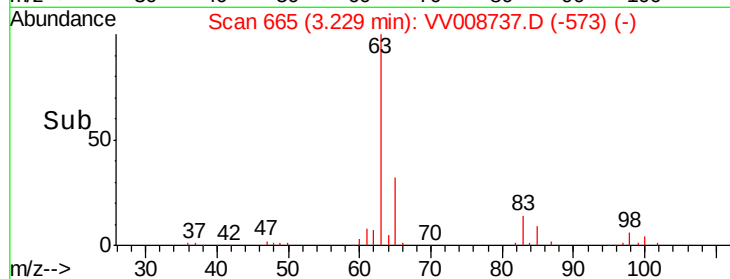
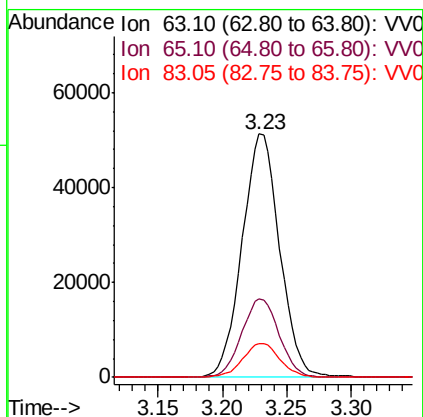
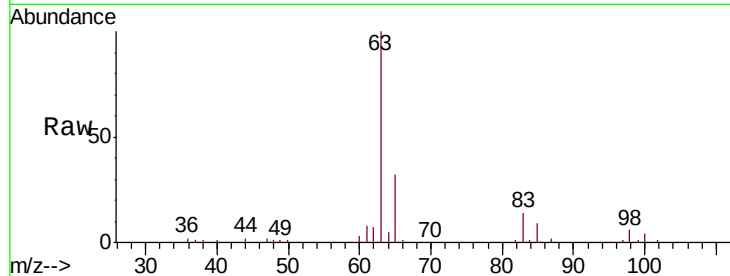




#19  
 1,1-Dichloroethane  
 Concen: 5.084 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

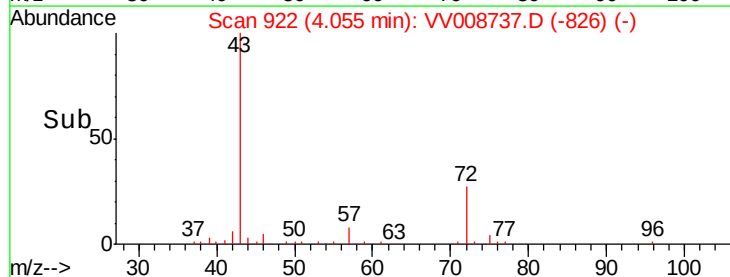
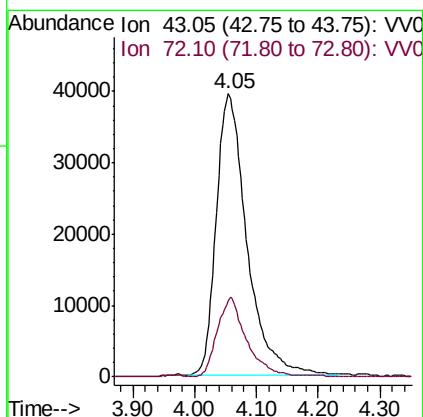
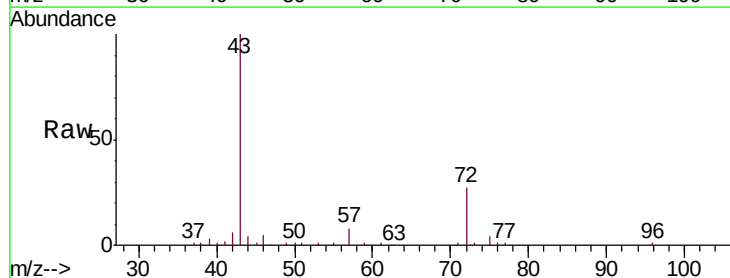
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

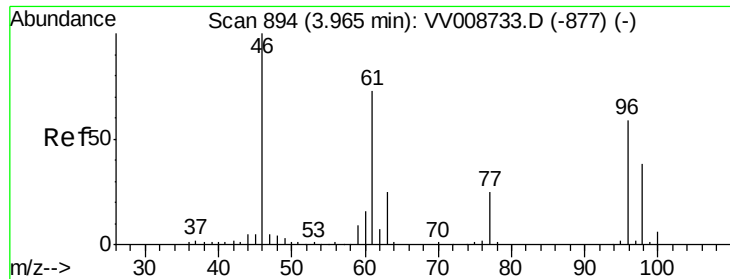
Tgt Ion: 63 Resp: 103979  
 Ion Ratio Lower Upper  
 63 100  
 65 32.4 21.6 40.2  
 83 14.0 9.2 17.2



#21  
 2-Butanone  
 Concen: 51.073 ug/L  
 RT: 4.05 min Scan# 922  
 Delta R.T. 0.01 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 43 Resp: 136422  
 Ion Ratio Lower Upper  
 43 100  
 72 26.9 12.4 37.2



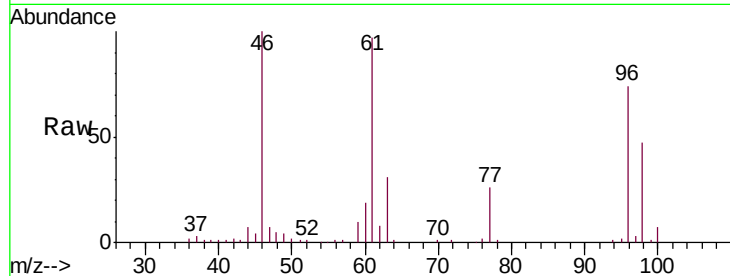


#22

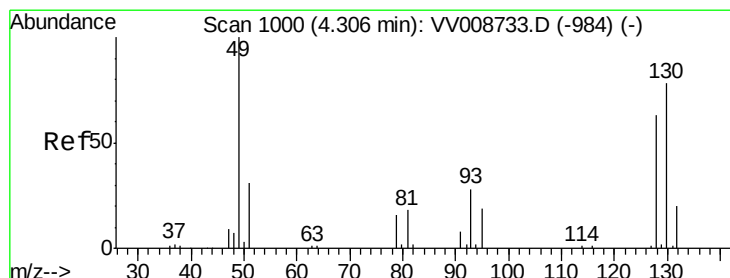
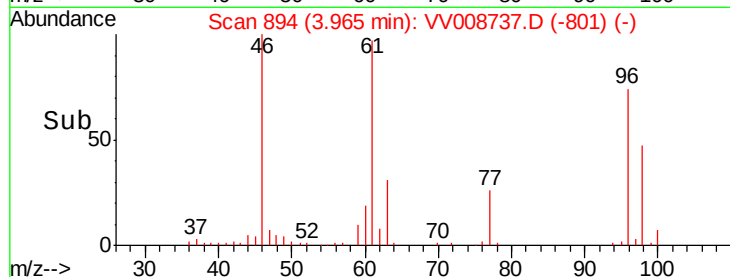
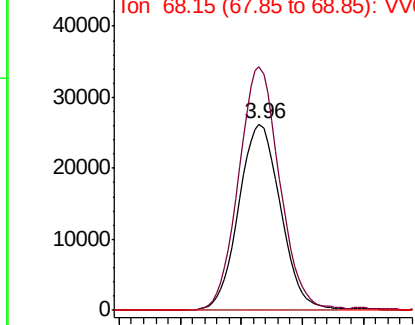
cis-1,2-Dichloroethene  
Concen: 4.972 ug/L  
RT: 3.96 min Scan# 894  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Tgt Ion: 96 Resp: 62313  
Ion Ratio Lower Upper  
96 100  
61 130.7 86.9 161.3  
68 0.0 0.0 0.0



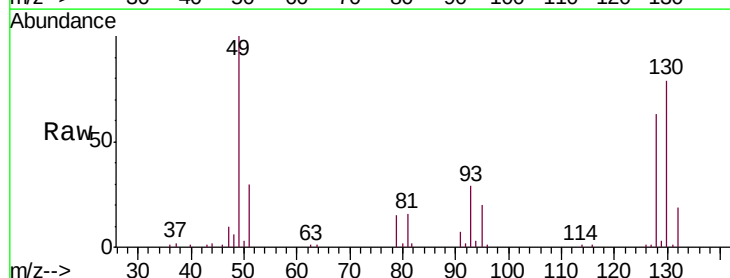
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



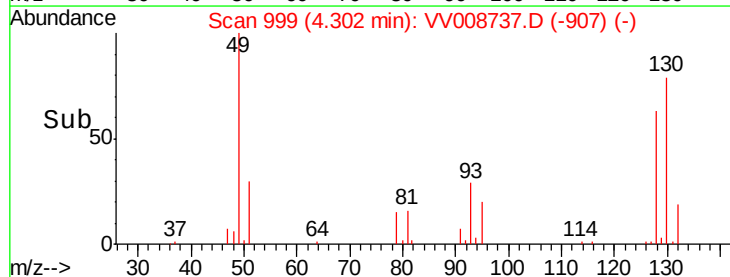
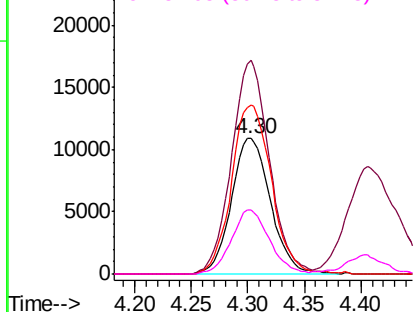
#23

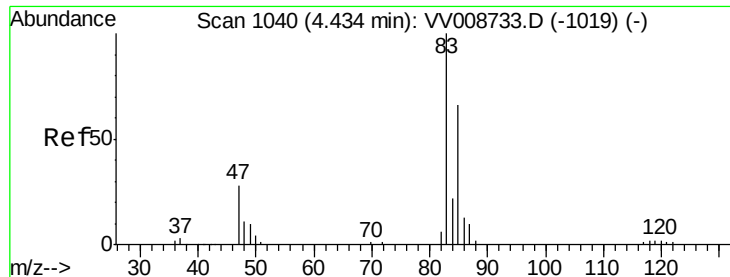
Bromochloromethane  
Concen: 5.090 ug/L  
RT: 4.30 min Scan# 999  
Delta R.T. -0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion: 128 Resp: 26267  
Ion Ratio Lower Upper  
128 100  
49 157.6 111.4 206.8  
130 124.9 86.8 161.2  
51 47.1 38.9 58.3



Abundance Ion 127.90 (127.60 to 128.60): V  
Ion 49.10 (48.80 to 49.80): VV0  
Ion 129.95 (129.65 to 130.65): V  
Ion 51.05 (50.75 to 51.75): VV0

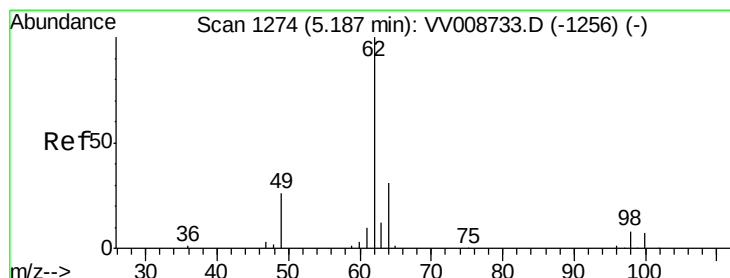
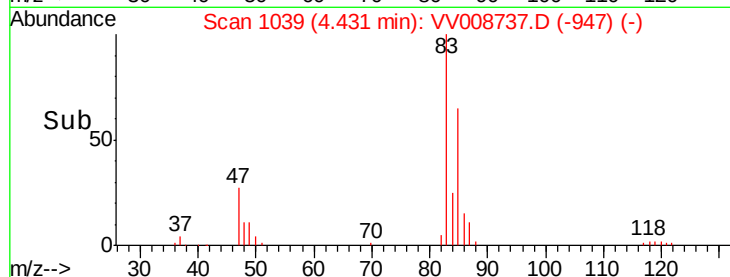
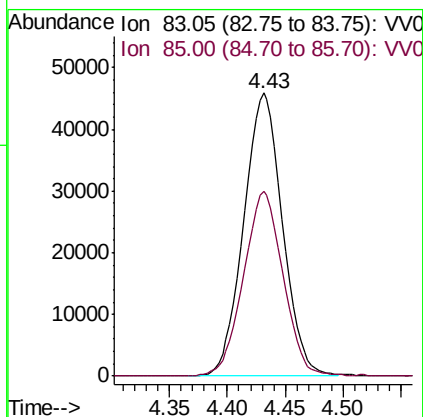
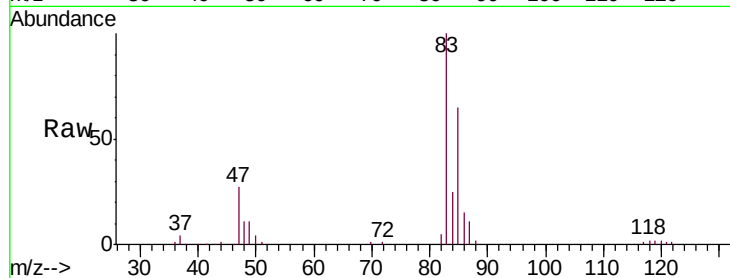




#25  
Chloroform  
Concen: 4.929 ug/L  
RT: 4.43 min Scan# 1039  
Delta R.T. -0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

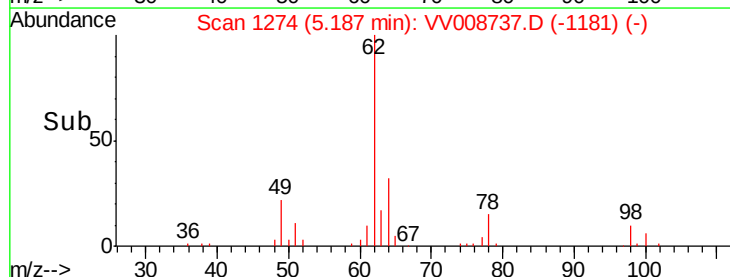
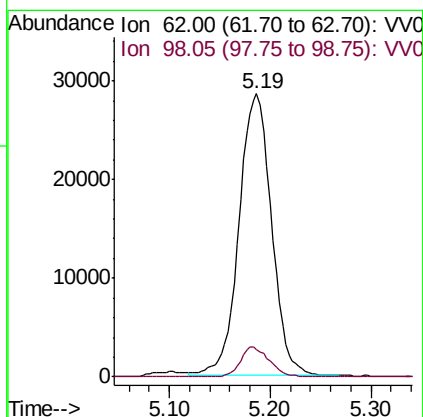
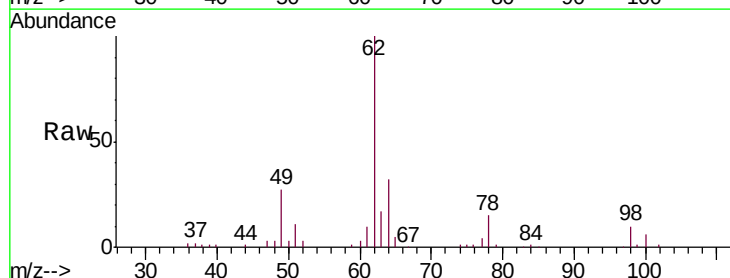
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

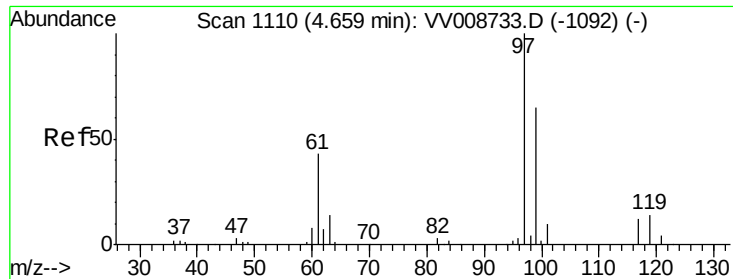
Tgt Ion: 83 Resp: 107085  
Ion Ratio Lower Upper  
83 100  
85 65.5 46.4 86.2



#27  
1,2-Dichloroethane  
Concen: 5.178 ug/L  
RT: 5.19 min Scan# 1274  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion: 62 Resp: 63923  
Ion Ratio Lower Upper  
62 100  
98 9.8 6.6 9.8

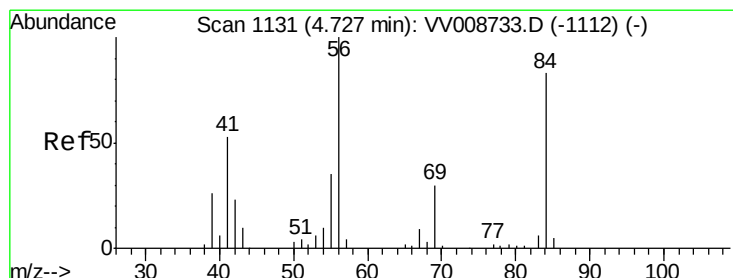
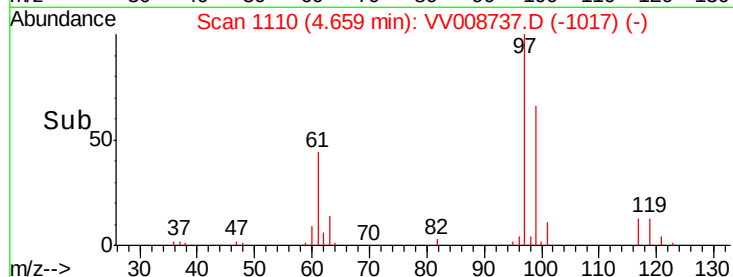
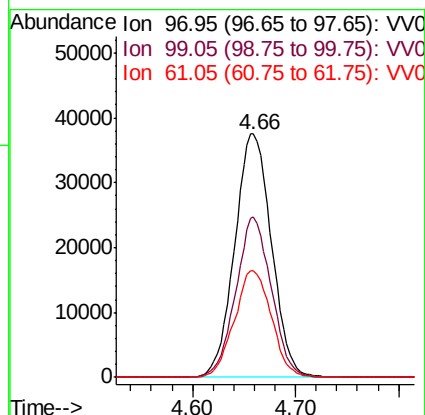
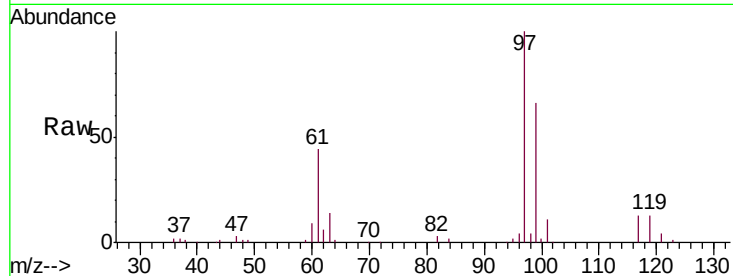




#29  
 1,1,1-Trichloroethane  
 Concen: 5.126 ug/L  
 RT: 4.66 min Scan# 1110  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

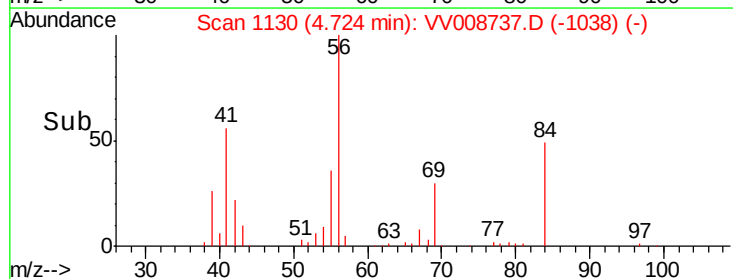
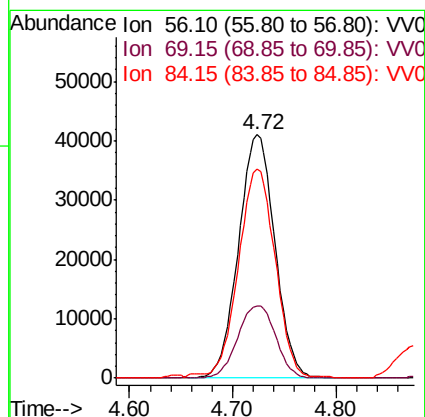
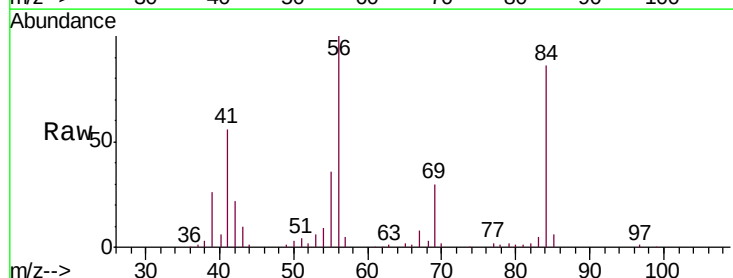
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

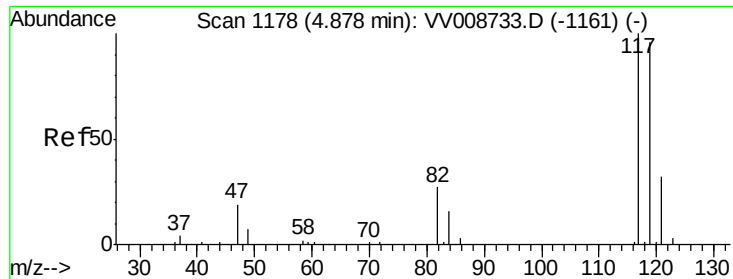
Tgt Ion: 97 Resp: 93096  
 Ion Ratio Lower Upper  
 97 100  
 99 63.5 51.3 76.9  
 61 44.2 33.8 50.6



#30  
 Cyclohexane  
 Concen: 5.208 ug/L  
 RT: 4.72 min Scan# 1130  
 Delta R.T. -0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 56 Resp: 100643  
 Ion Ratio Lower Upper  
 56 100  
 69 31.1 24.9 37.3  
 84 84.8 69.5 104.3





#31

Carbon tetrachloride

Concen: 5.182 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

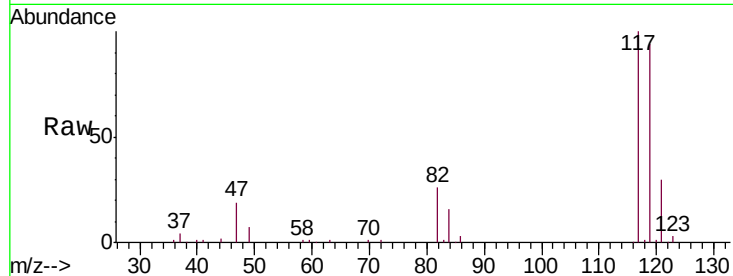
VSTD00568

Tgt Ion:117 Resp: 78818

Ion Ratio Lower Upper

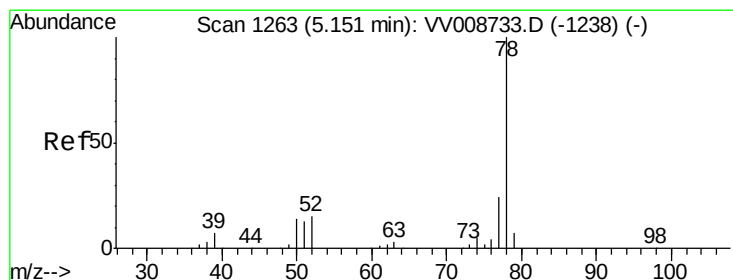
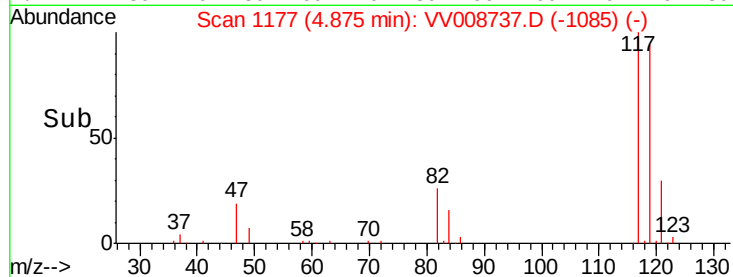
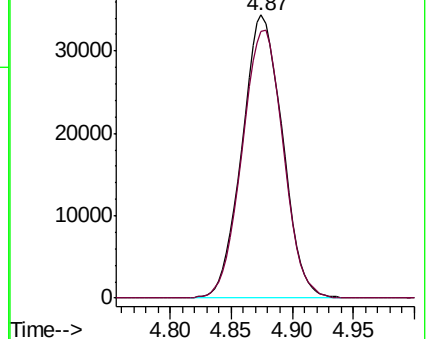
117 100

119 96.4 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: 5.060 ug/L

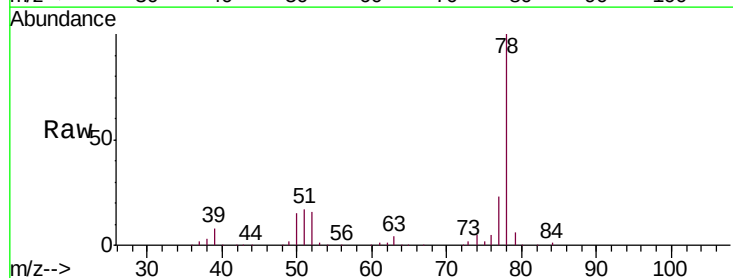
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

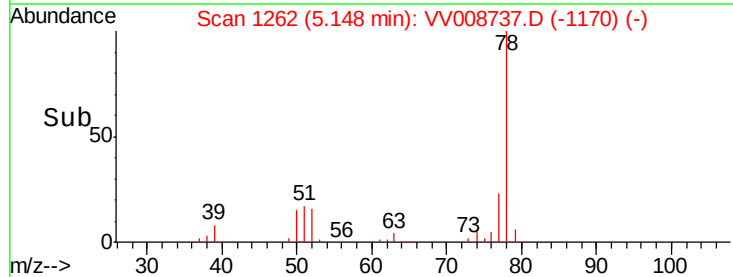
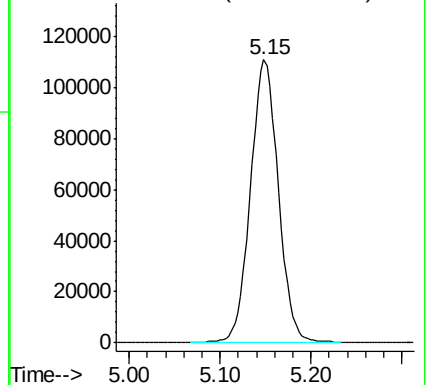
Lab File: VV008737.D

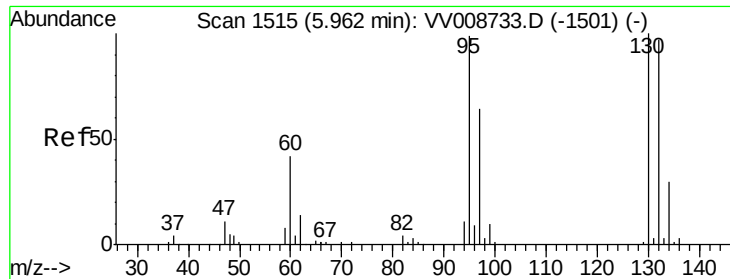
Acq: 28 Nov 2018 15:09

Tgt Ion: 78 Resp: 236268



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.044 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

Tgt Ion: 95 Resp: 64868

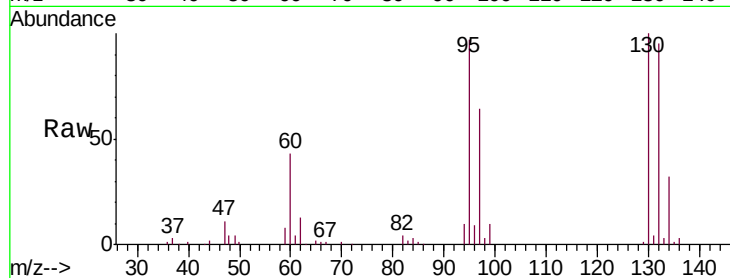
Ion Ratio Lower Upper

95 100

97 66.0 45.1 83.9

132 98.0 68.0 126.4

130 102.9 70.4 130.8

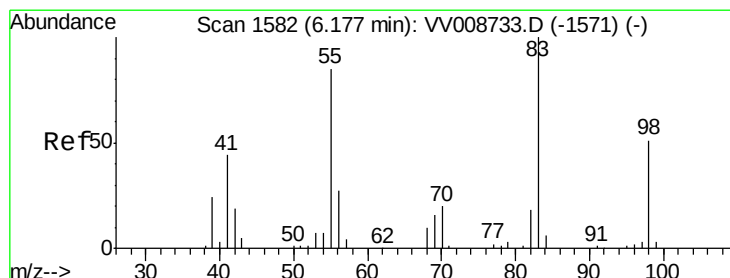
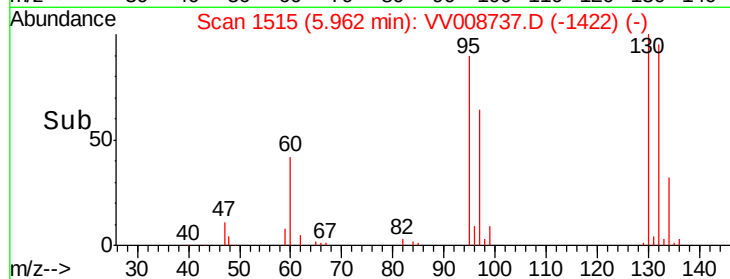
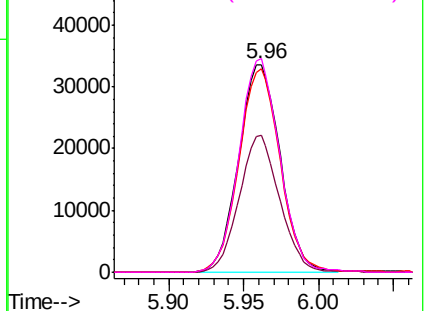


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 5.196 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

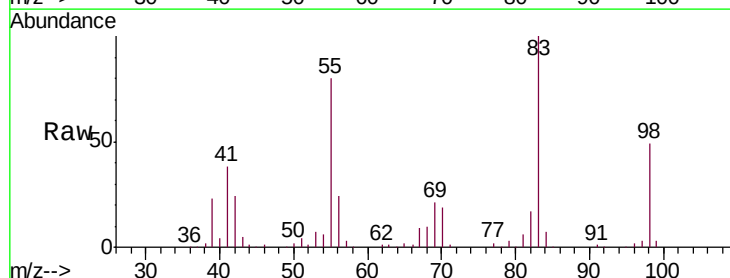
Tgt Ion: 83 Resp: 106468

Ion Ratio Lower Upper

83 100

55 78.0 62.2 93.2

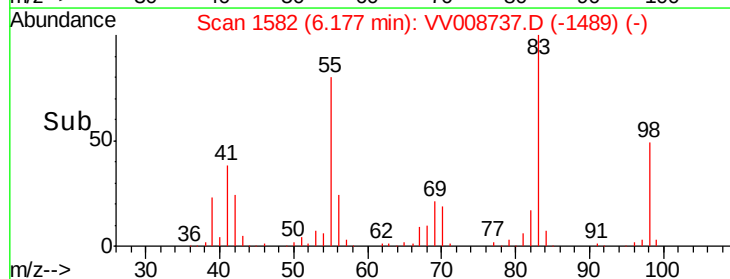
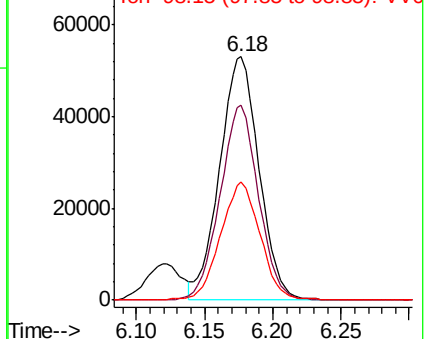
98 48.6 37.1 55.7



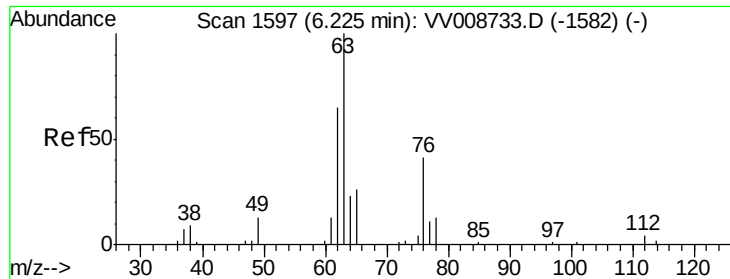
Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0



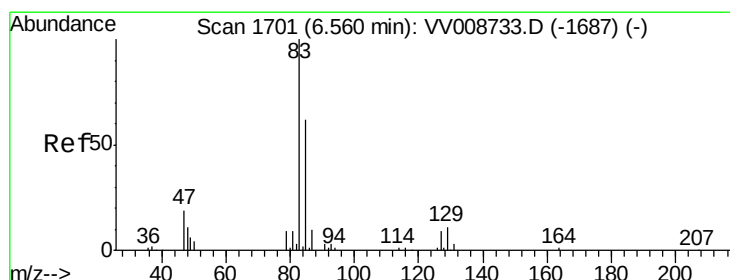
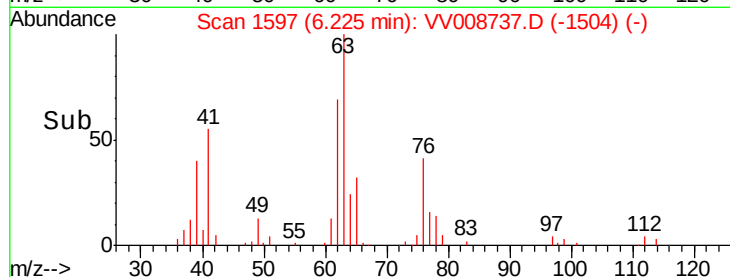
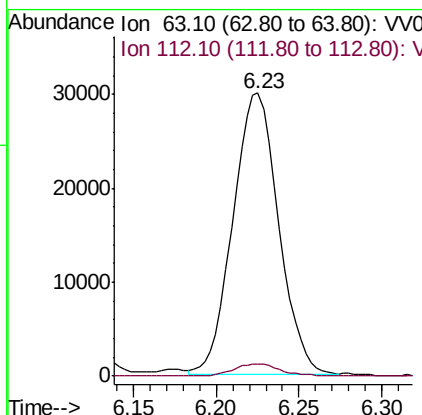
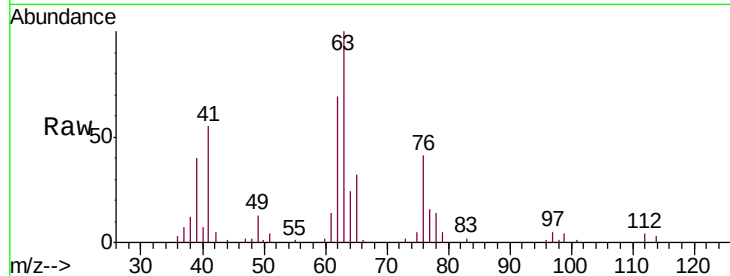




#37  
 1,2-Dichloropropane  
 Concen: 4.897 ug/L  
 RT: 6.23 min Scan# 1597  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

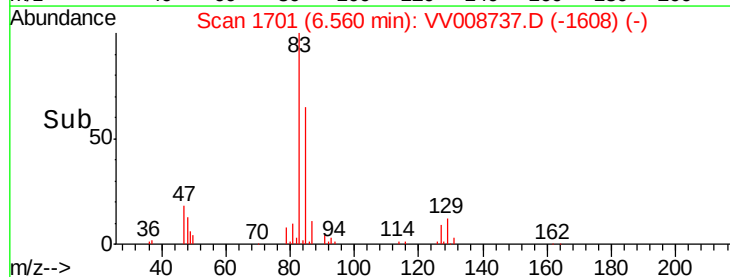
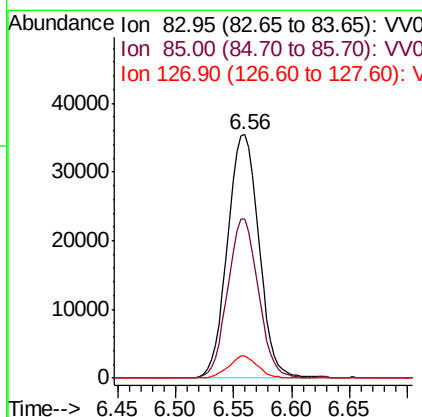
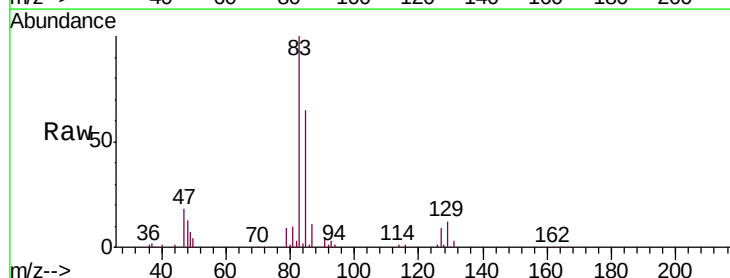
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

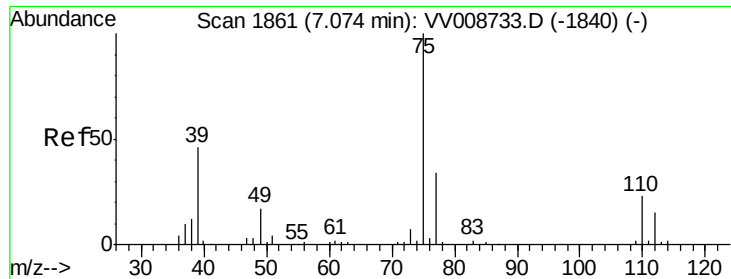
Tgt Ion: 63 Resp: 57145  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.2 4.8



#38  
 Bromodichloromethane  
 Concen: 5.037 ug/L  
 RT: 6.56 min Scan# 1701  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 83 Resp: 66698  
 Ion Ratio Lower Upper  
 83 100  
 85 65.3 43.8 81.3  
 127 9.0 7.0 10.6

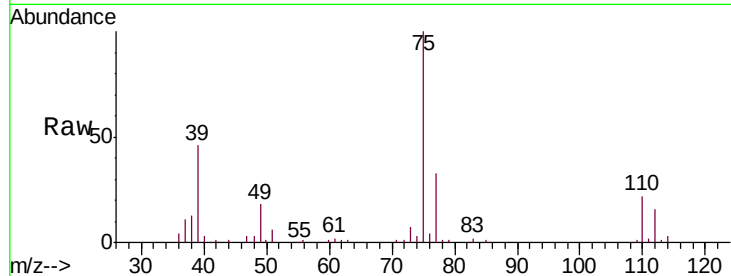




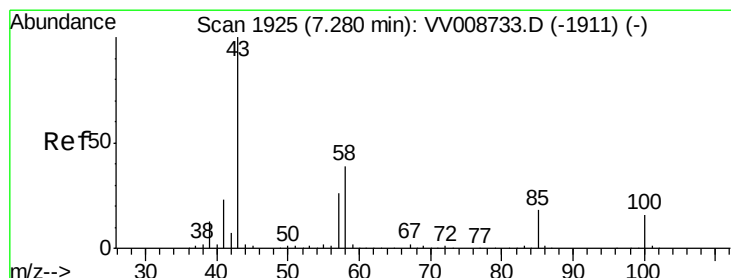
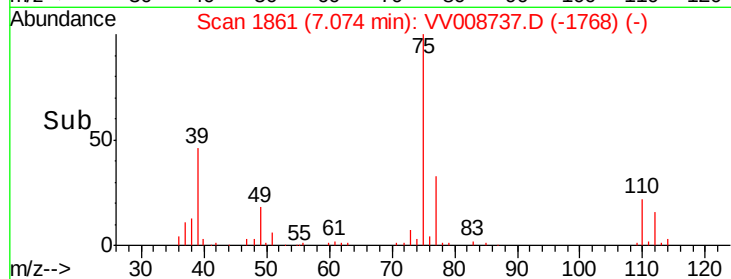
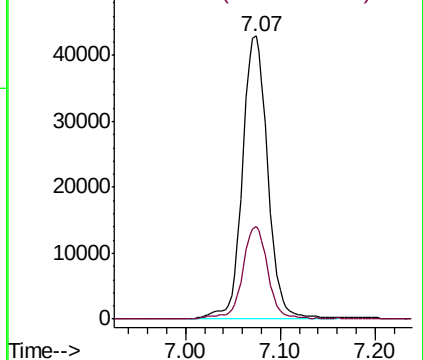
#39  
 cis-1,3-Dichloropropene  
 Concen: 5.162 ug/L  
 RT: 7.07 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

Tgt Ion: 75 Resp: 80280  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 23.8 44.2

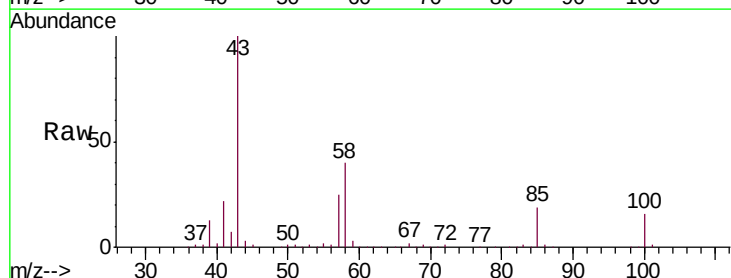


Abundance Ion 75.05 (74.75 to 75.75): VV0  
 Ion 77.05 (76.75 to 77.75): VV0

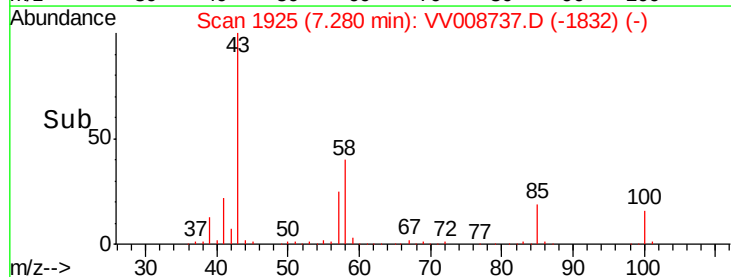
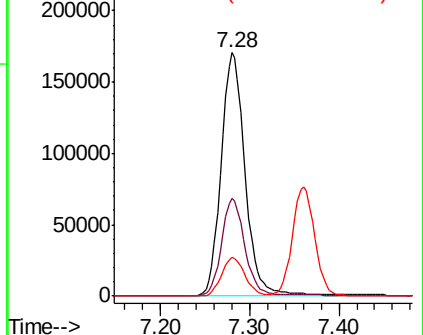


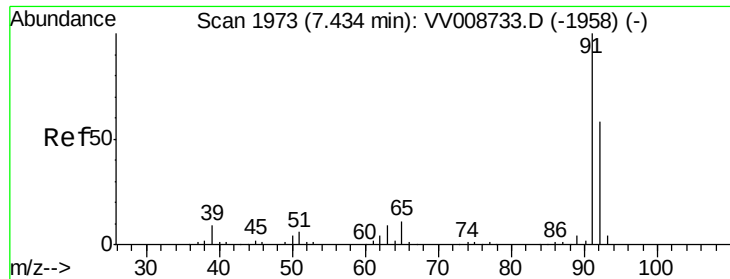
#40  
 4-Methyl-2-pentanone  
 Concen: 52.203 ug/L  
 RT: 7.28 min Scan# 1925  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 43 Resp: 318251  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 30.6 45.8  
 100 15.5 12.2 18.4



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





#42

Toluene

Concen: 5.182 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

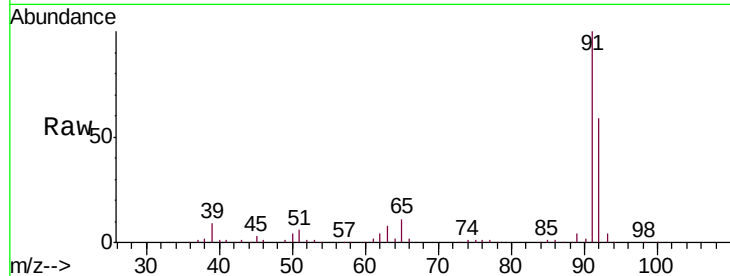
VSTD00568

Tgt Ion: 91 Resp: 250309

Ion Ratio Lower Upper

91 100

92 58.5 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) (-)

7.43

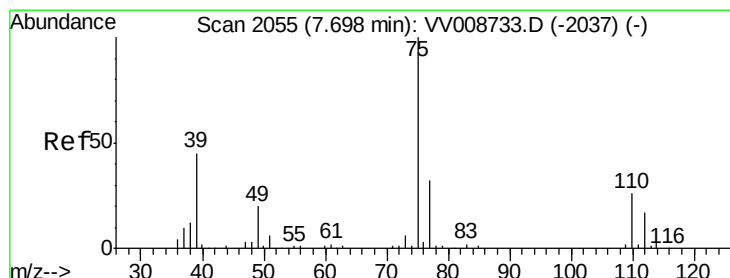
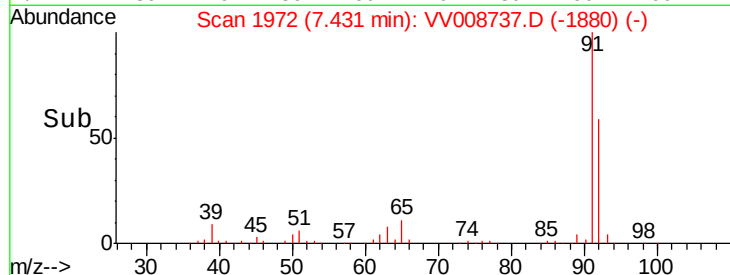
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.294 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008737.D

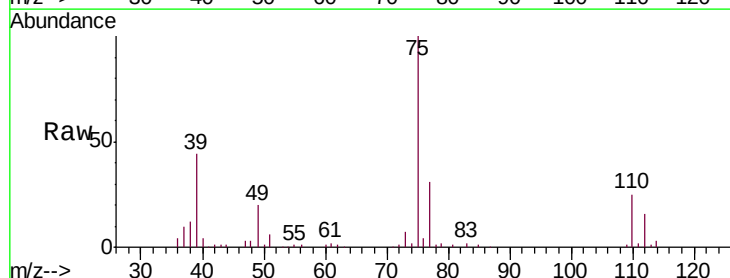
Acq: 28 Nov 2018 15:09

Tgt Ion: 75 Resp: 64354

Ion Ratio Lower Upper

75 100

77 30.6 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) (-)

7.70

40000

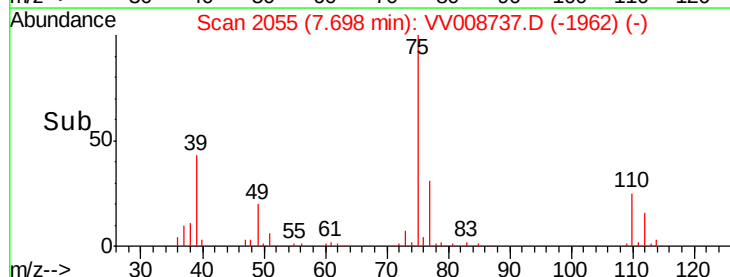
30000

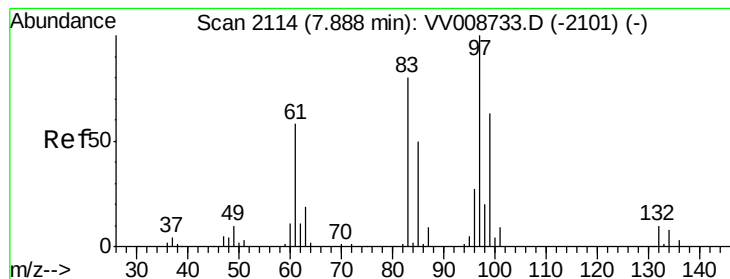
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.952 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

Tgt Ion: 97 Resp: 38513

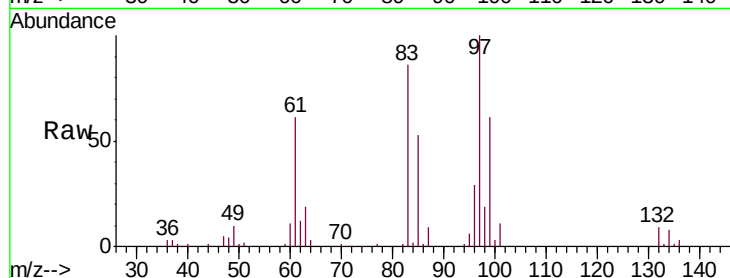
Ion Ratio Lower Upper

97 100

99 61.0 43.8 81.4

83 86.0 55.8 103.6

85 53.5 34.6 64.3

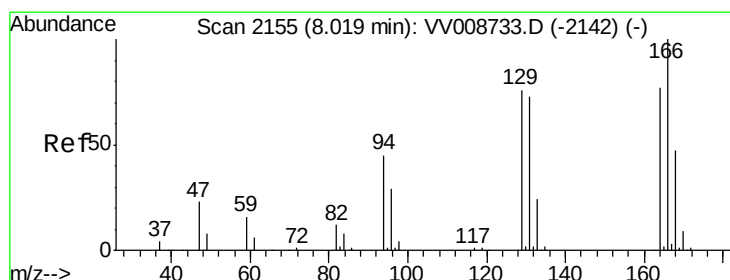
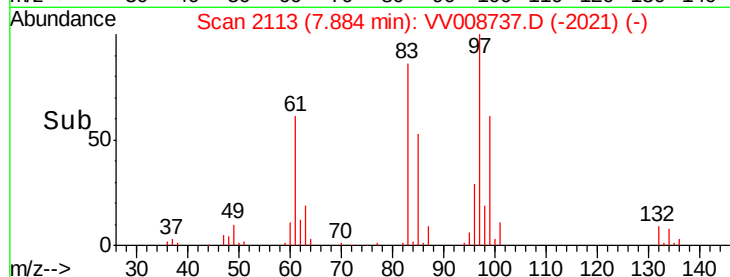
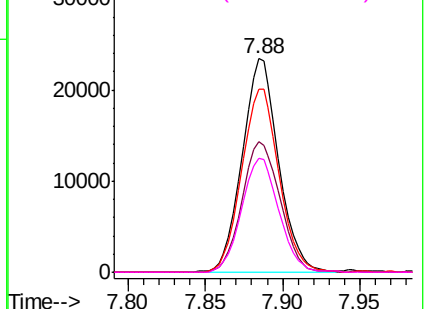


Abundance Ion 96.95 (96.65 to 97.65): VV0

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: 5.154 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Tgt Ion: 164 Resp: 49966

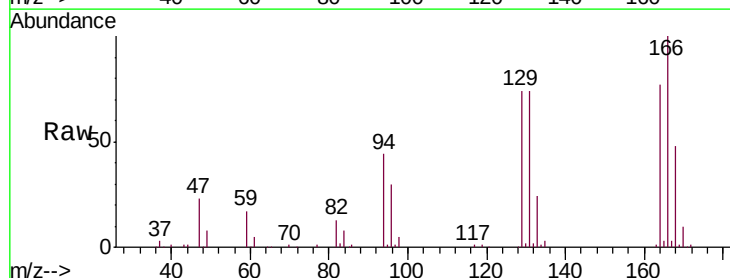
Ion Ratio Lower Upper

164 100

129 95.7 68.9 127.9

131 96.9 66.2 123.0

166 130.2 91.1 169.1

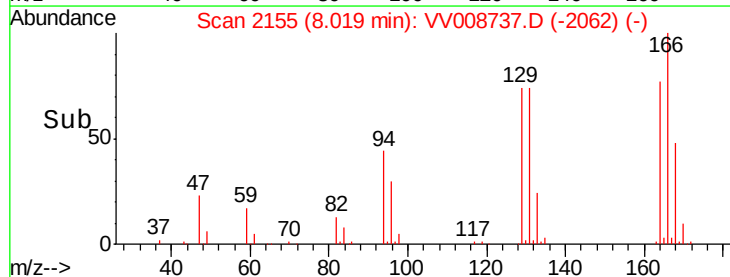
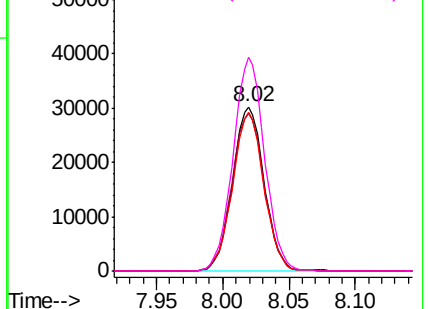


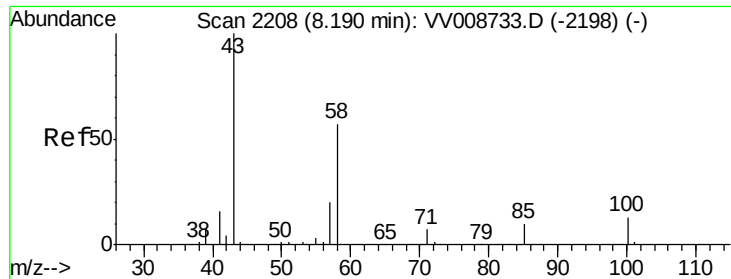
Abundance Ion 163.90 (163.60 to 164.60): V

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

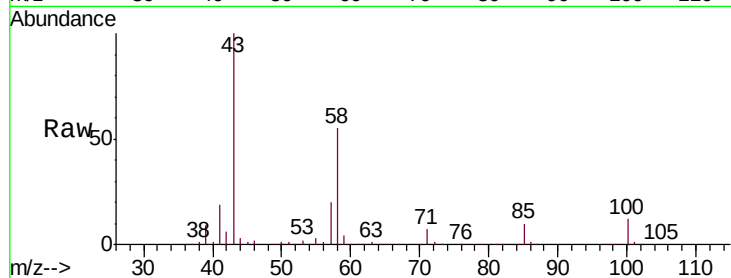




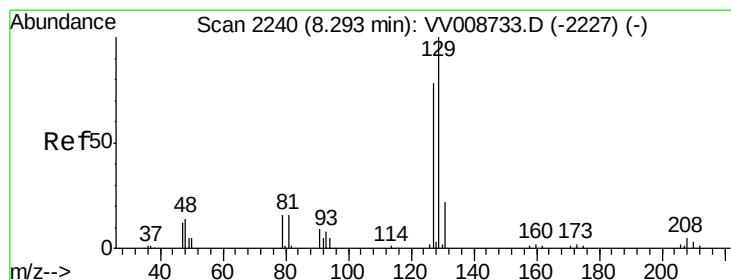
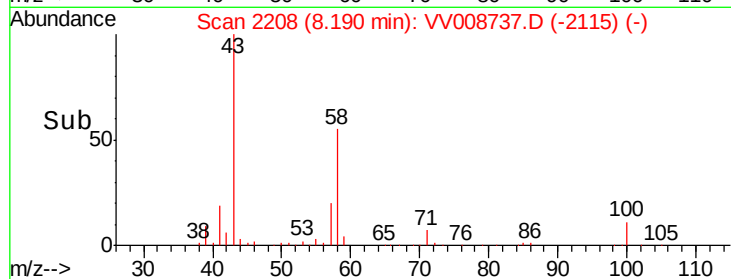
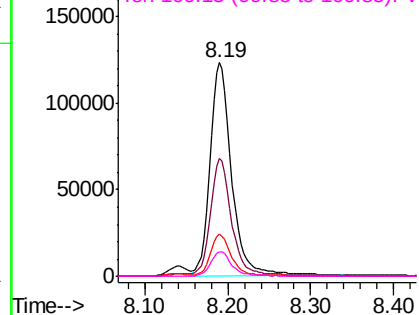
#48  
2-Hexanone  
Concen: 53.591 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Tgt Ion: 43 Resp: 226190  
Ion Ratio Lower Upper  
43 100  
58 53.4 44.1 66.1  
57 18.4 15.2 22.8  
100 11.8 9.7 14.5

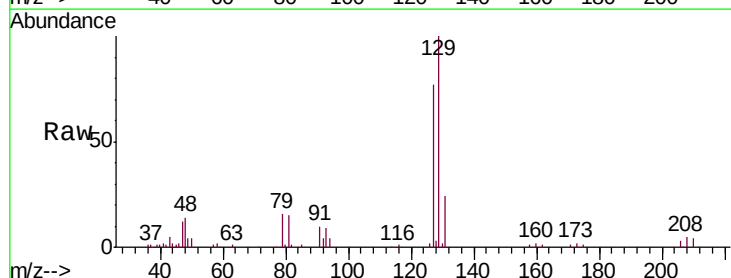


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

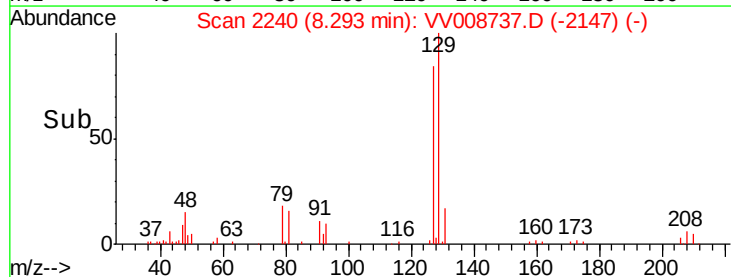
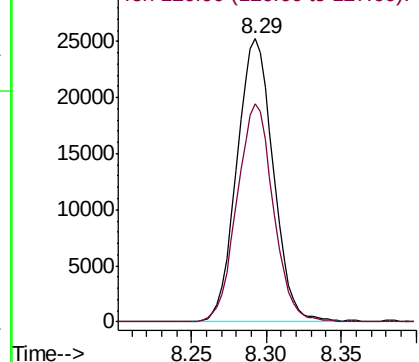


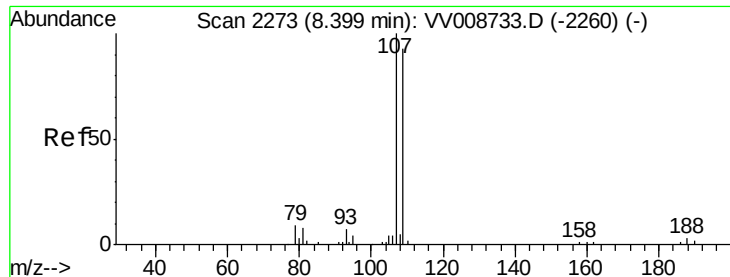
#49  
Dibromochloromethane  
Concen: 5.240 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion: 129 Resp: 42792  
Ion Ratio Lower Upper  
129 100  
127 77.1 54.8 101.8



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

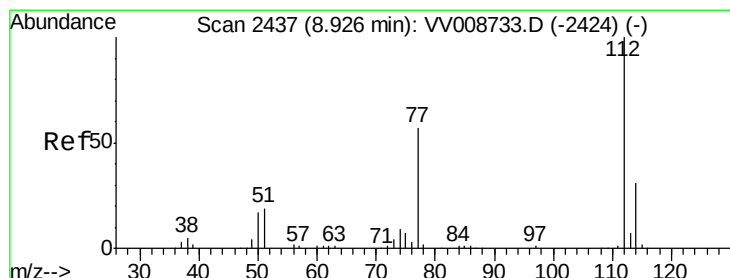
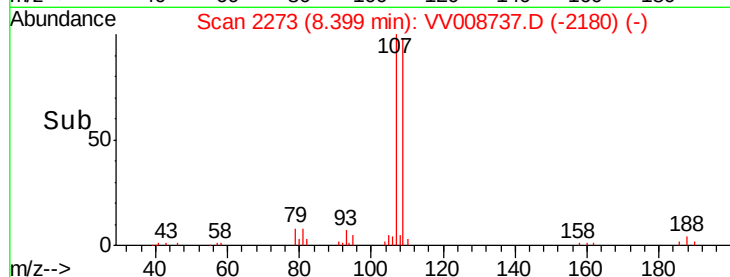
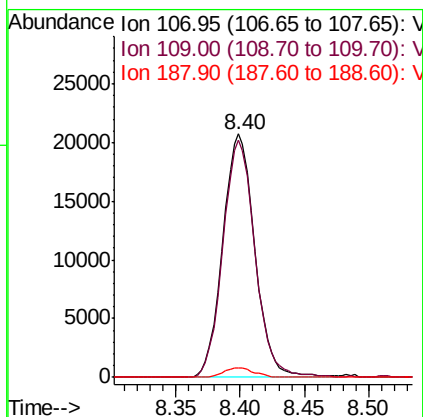
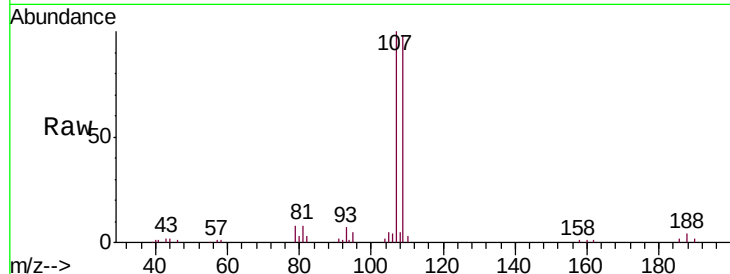




#50  
1,2-Dibromoethane  
Concen: 5.118 ug/L  
RT: 8.40 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

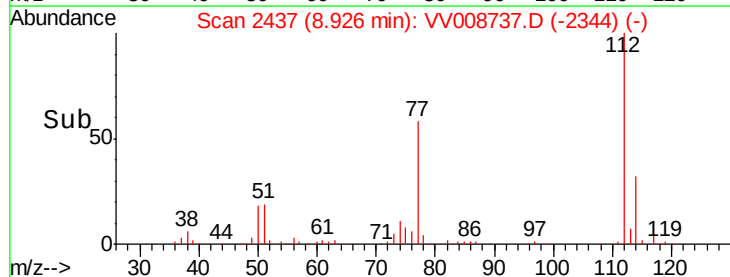
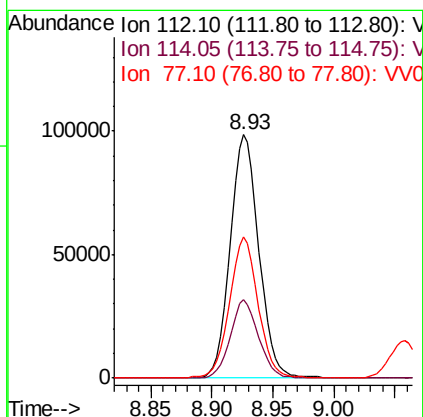
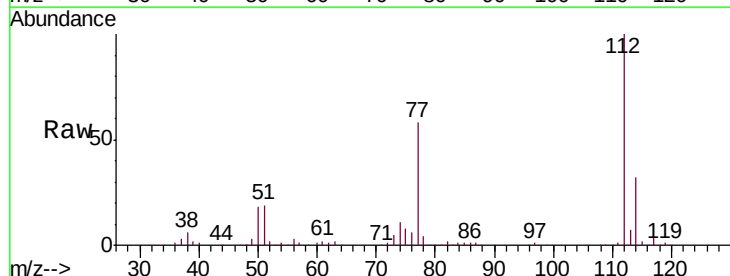
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

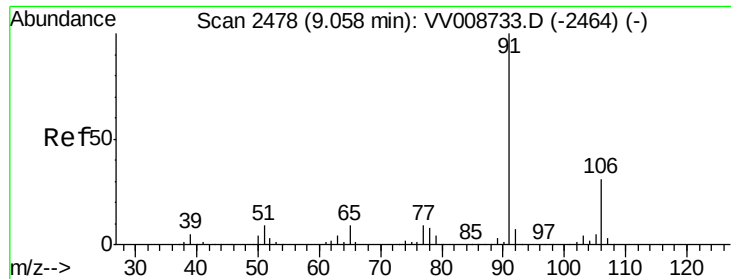
Tgt Ion:107 Resp: 35816  
Ion Ratio Lower Upper  
107 100  
109 97.5 65.2 121.2  
188 4.1 2.3 3.5#



#51  
Chlorobenzene  
Concen: 4.612 ug/L  
RT: 8.93 min Scan# 2437  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Tgt Ion:112 Resp: 161538  
Ion Ratio Lower Upper  
112 100  
114 32.4 21.4 39.8  
77 57.9 45.8 68.8





#52

Ethylbenzene

Concen: 5.200 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

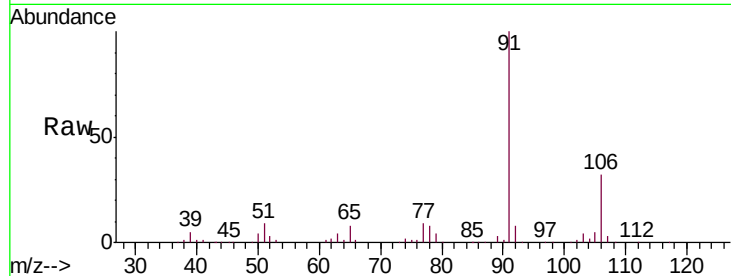
VSTD00568

Tgt Ion: 91 Resp: 273774

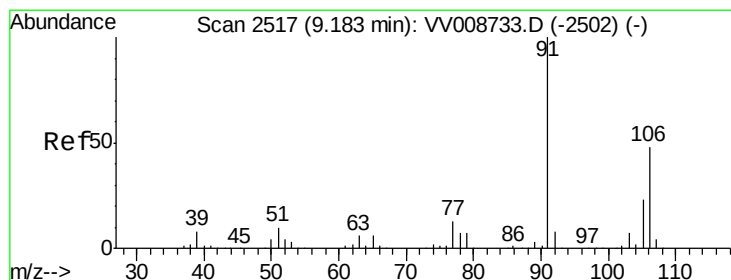
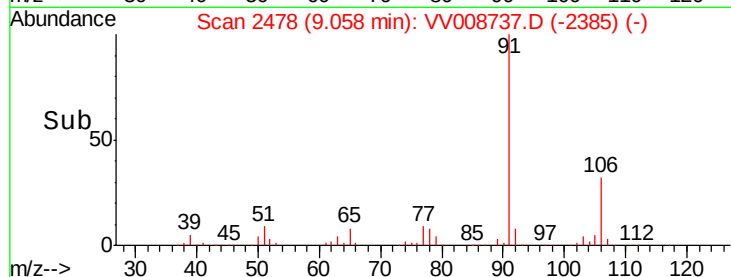
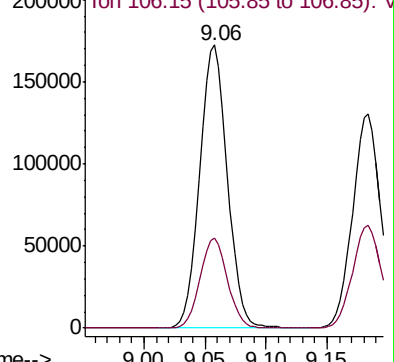
Ion Ratio Lower Upper

91 100

106 32.0 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VV008737.D (-2464) (-)



#53

m,p-xylene

Concen: 5.199 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008737.D

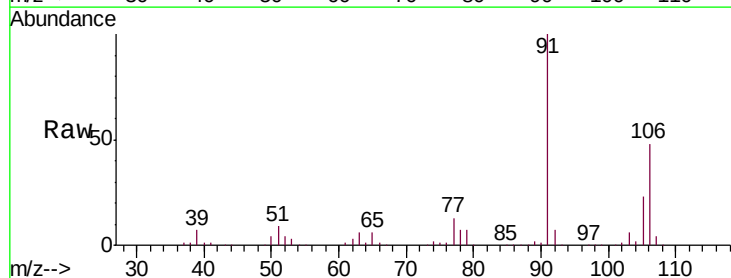
Acq: 28 Nov 2018 15:09

Tgt Ion: 106 Resp: 102689

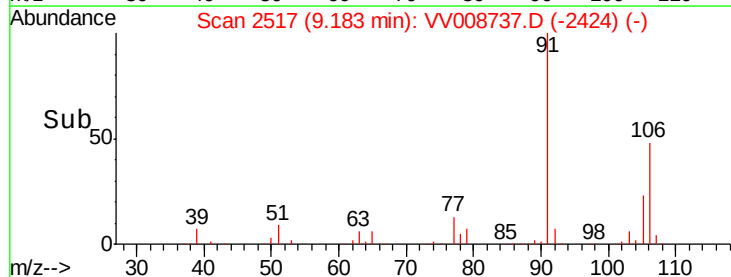
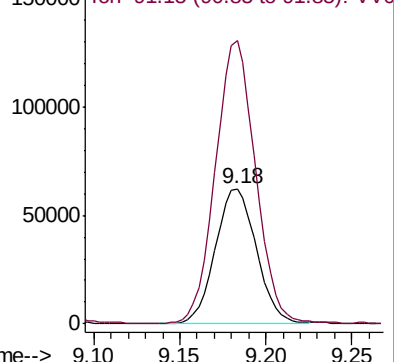
Ion Ratio Lower Upper

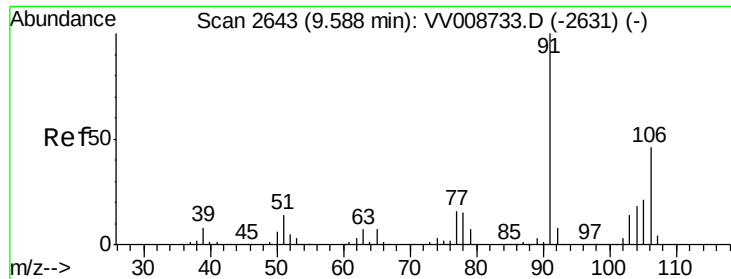
106 100

91 208.8 145.1 269.5



Abundance Ion 106.15 (105.85 to 106.85): VV008737.D (-2502) (-)

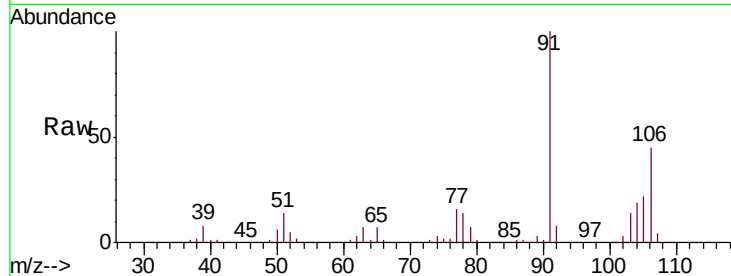




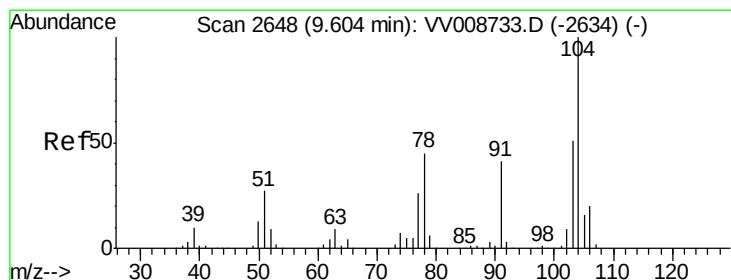
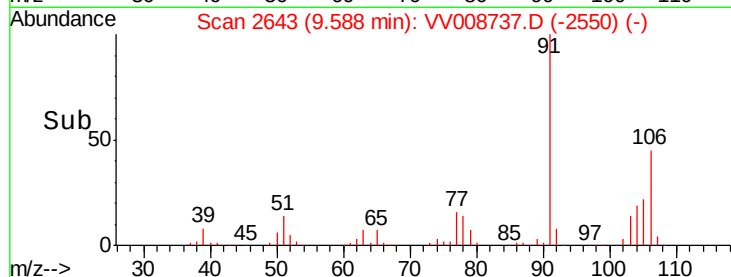
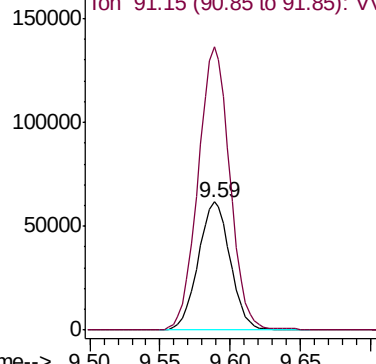
#54  
o-xylene  
Concen: 5.180 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00568

Tgt Ion:106 Resp: 98447  
Ion Ratio Lower Upper  
106 100  
91 221.2 152.0 282.4

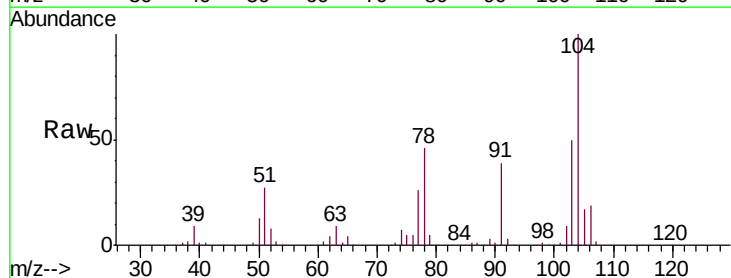


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

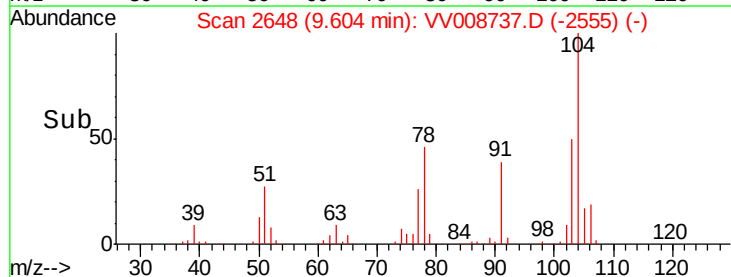
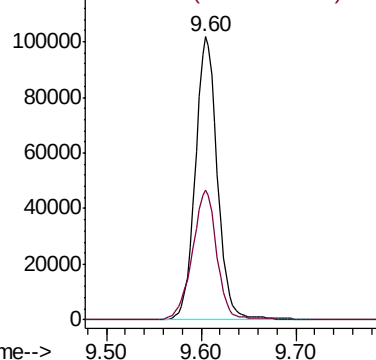


#55  
Styrene  
Concen: 5.312 ug/L  
RT: 9.60 min Scan# 2648  
Delta R.T. 0.00 min  
Lab File: VV008737.D  
Acq: 28 Nov 2018 15:09

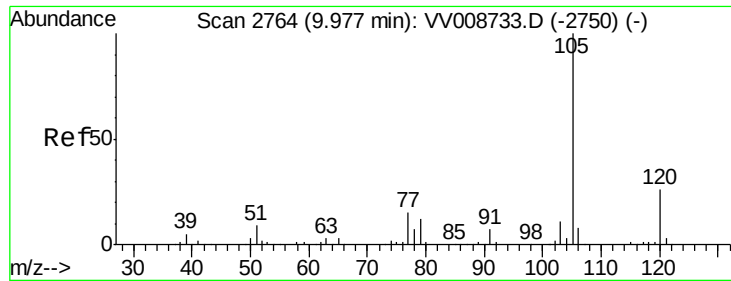
Tgt Ion:104 Resp: 165605  
Ion Ratio Lower Upper  
104 100  
78 46.0 31.4 58.2



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0







#56

Isopropylbenzene

Concen: 5.281 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

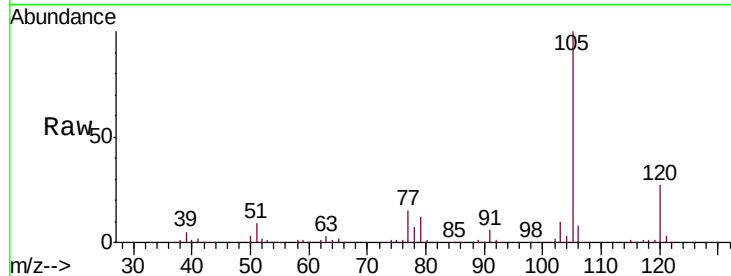
Tgt Ion: 105 Resp: 266852

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.2

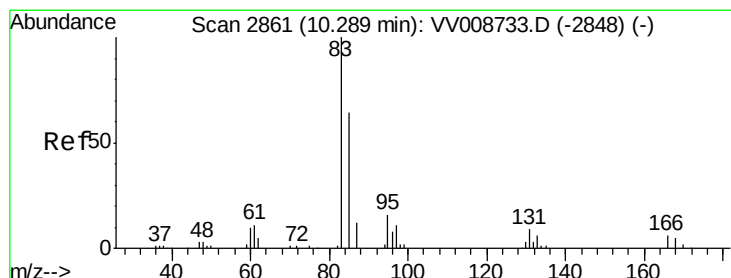
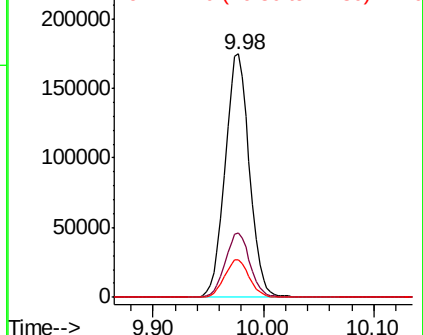
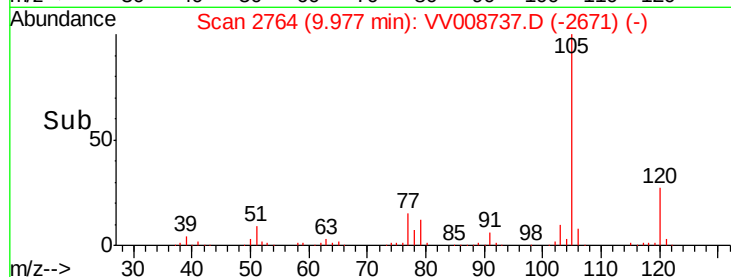
77 15.7 12.4 18.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.220 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

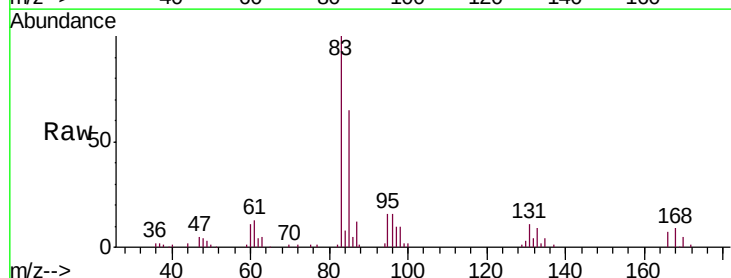
Tgt Ion: 83 Resp: 43289

Ion Ratio Lower Upper

83 100

85 65.4 44.9 83.3

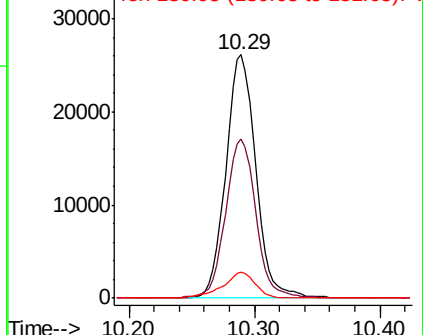
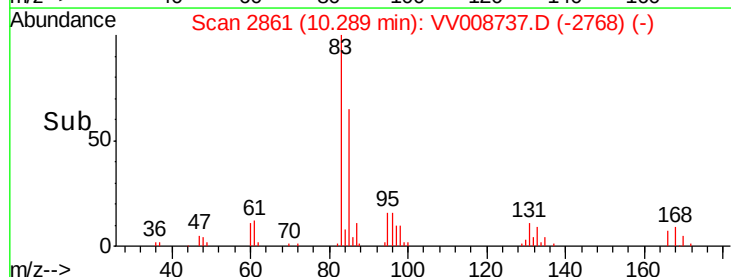
131 10.8 7.8 11.8

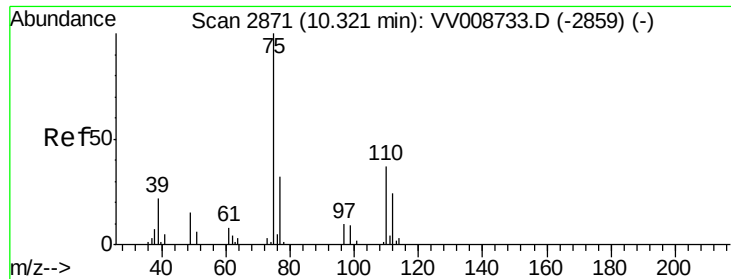


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

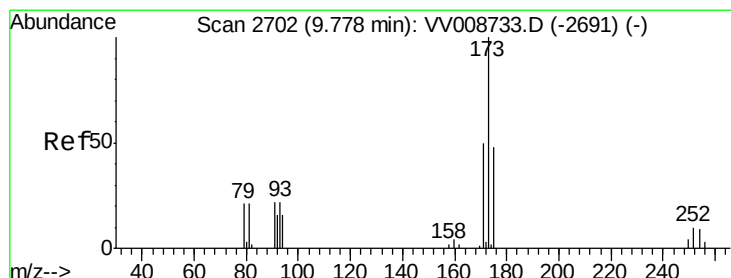
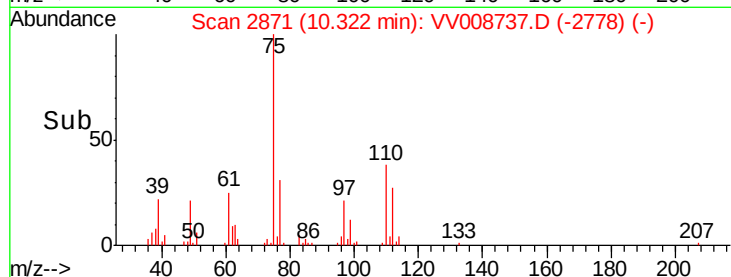
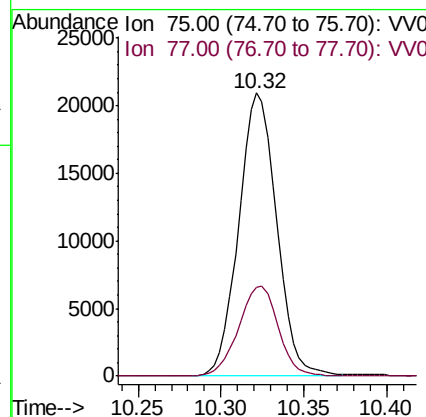
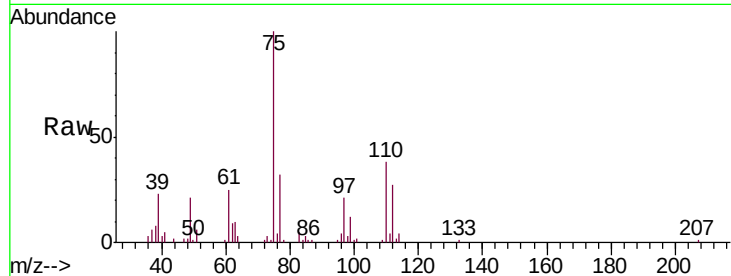




#59  
 1,2,3-Trichloropropane  
 Concen: 5.080 ug/L  
 RT: 10.32 min Scan# 2871  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

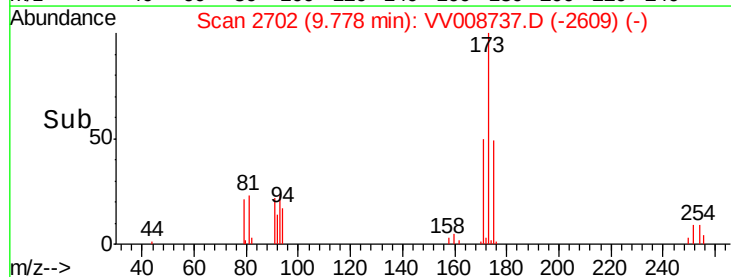
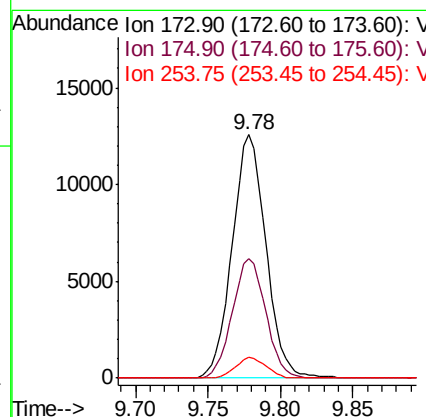
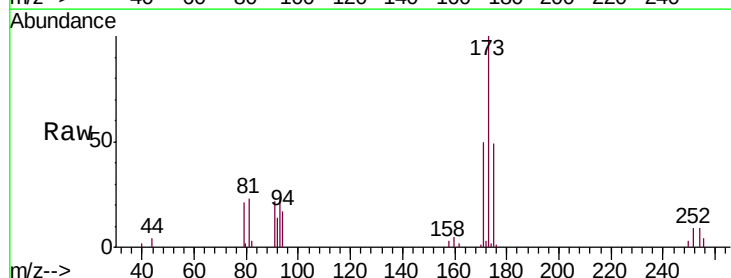
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

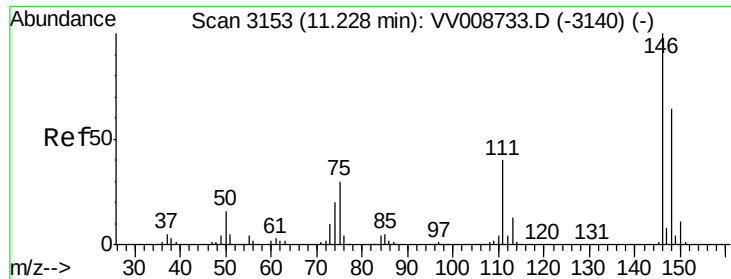
Tgt Ion: 75 Resp: 33346  
 Ion Ratio Lower Upper  
 75 100  
 77 33.2 26.6 39.8



#61  
 Bromoform  
 Concen: 5.031 ug/L  
 RT: 9.78 min Scan# 2702  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 173 Resp: 20351  
 Ion Ratio Lower Upper  
 173 100  
 175 48.3 38.4 57.6  
 254 7.7 6.6 10.0





#62

1,3-Dichlorobenzene

Concen: 5.082 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

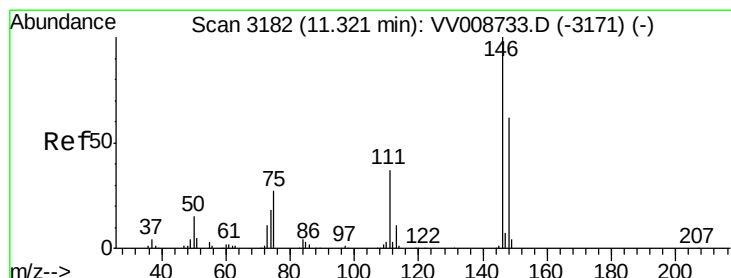
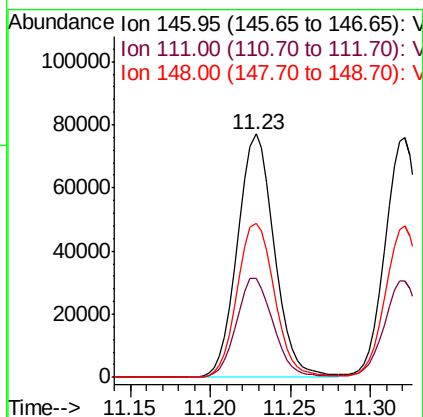
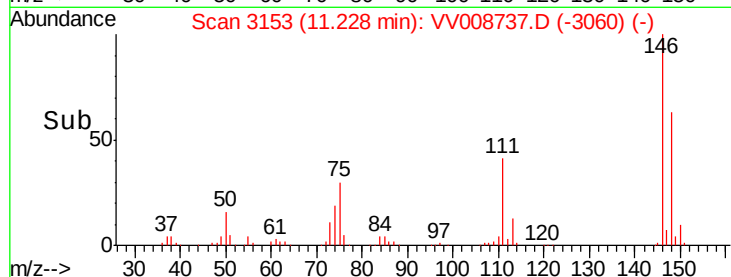
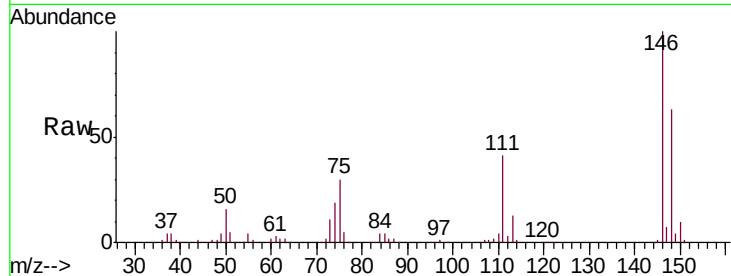
Tgt Ion:146 Resp: 120755

Ion Ratio Lower Upper

146 100

111 40.8 27.9 51.7

148 63.5 44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 4.840 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

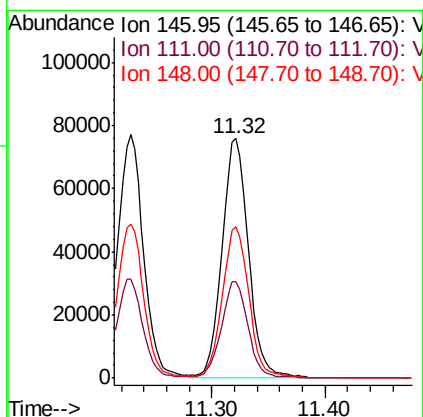
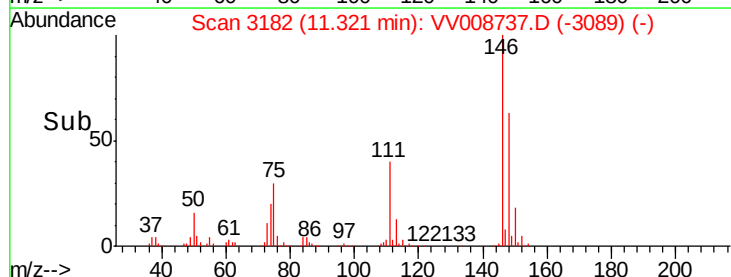
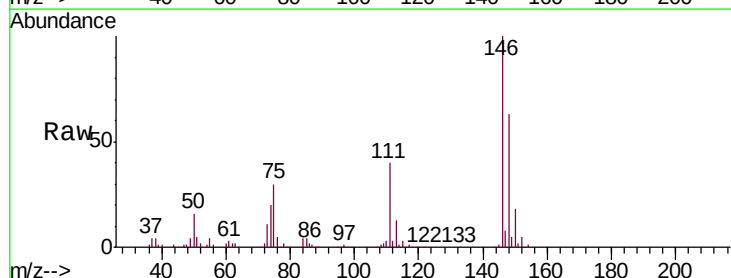
Tgt Ion:146 Resp: 123801

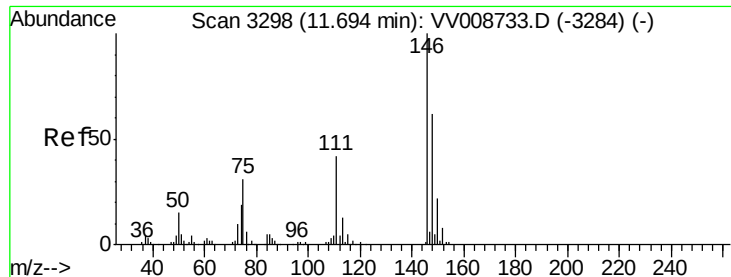
Ion Ratio Lower Upper

146 100

111 40.5 26.2 48.8

148 63.2 43.6 81.0

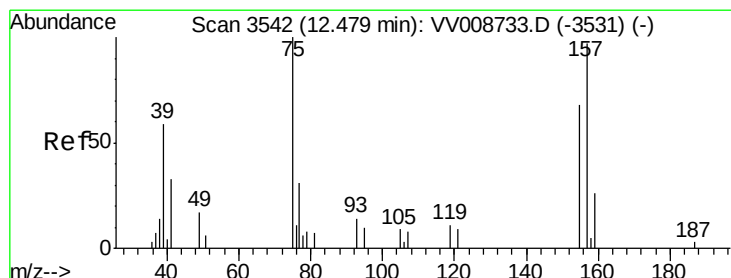
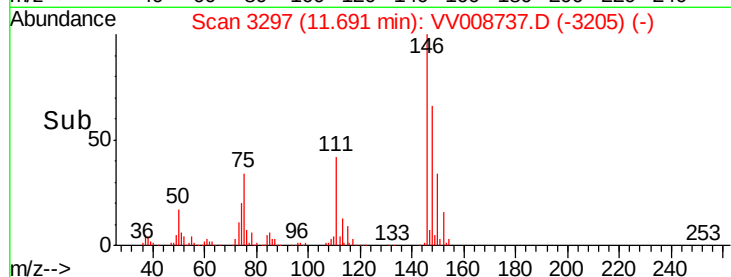
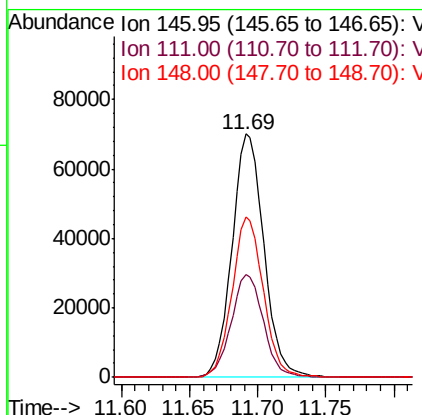
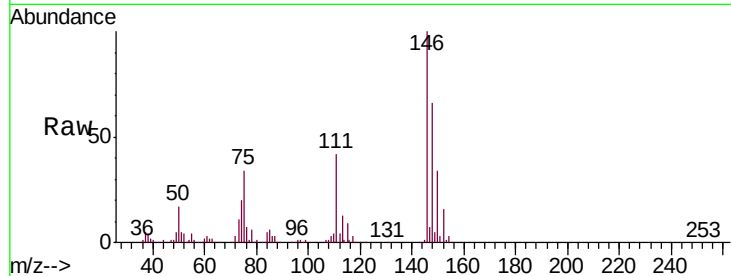




#65  
 1,2-Dichlorobenzene  
 Concen: 4.786 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. -0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

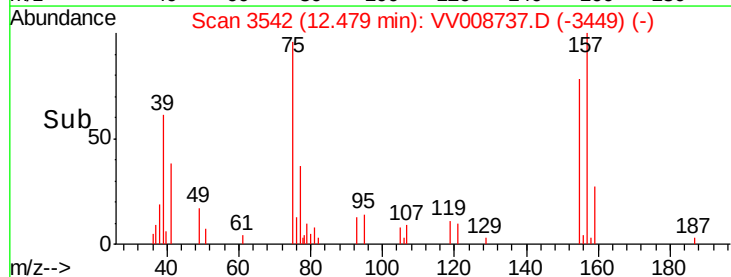
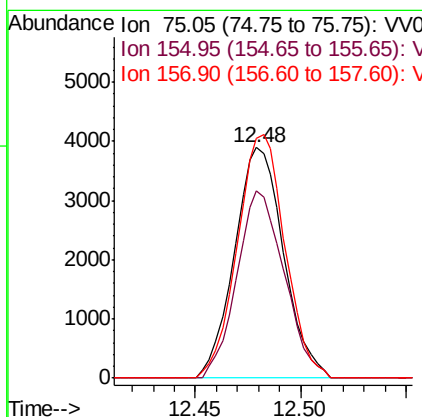
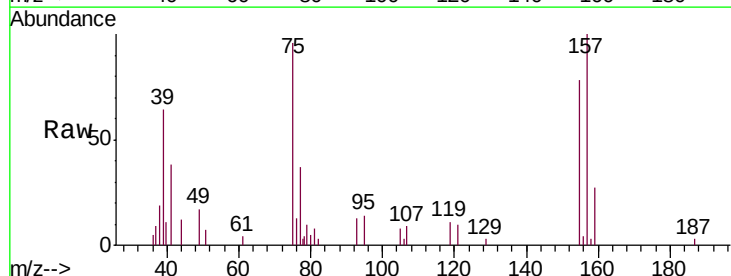
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

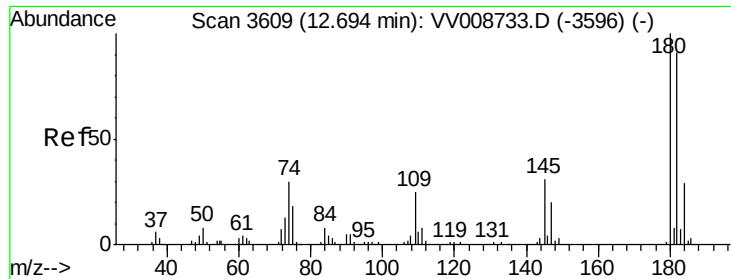
Tgt Ion:146 Resp: 113790  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 33.6 50.4  
 148 66.1 49.8 74.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.252 ug/L  
 RT: 12.48 min Scan# 3542  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion: 75 Resp: 6290  
 Ion Ratio Lower Upper  
 75 100  
 155 81.3 54.1 81.1#  
 157 104.3 77.4 116.2

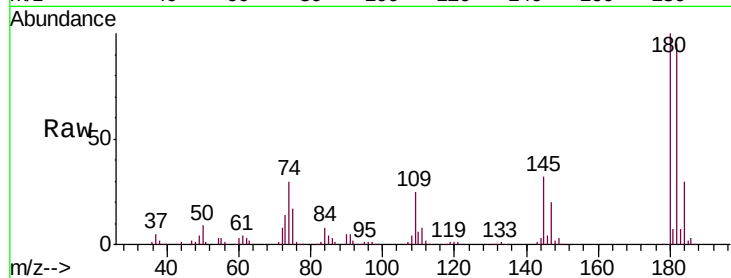




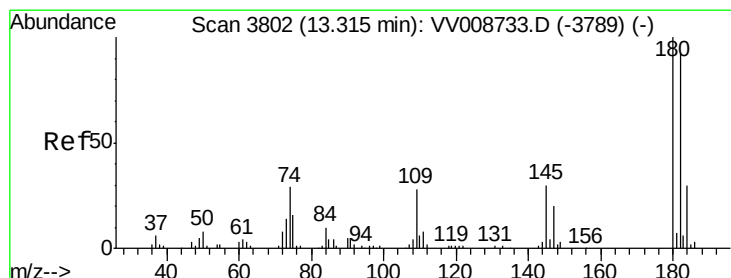
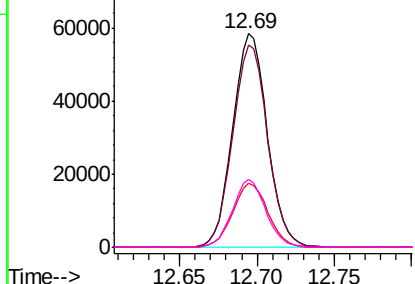
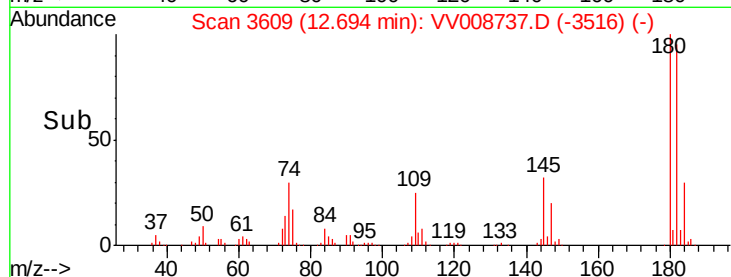
#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.241 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. 0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

Tgt Ion:180 Resp: 90524  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 74.3 111.5  
 184 30.4 23.4 35.0  
 145 30.7 24.8 37.2

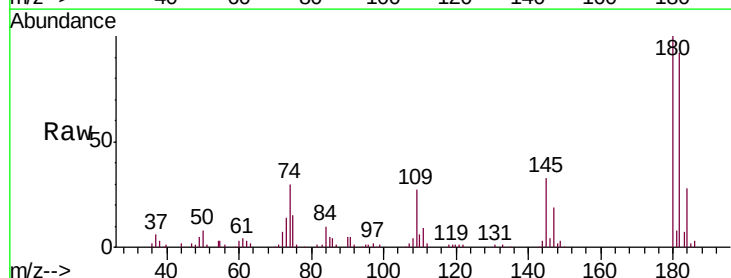


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

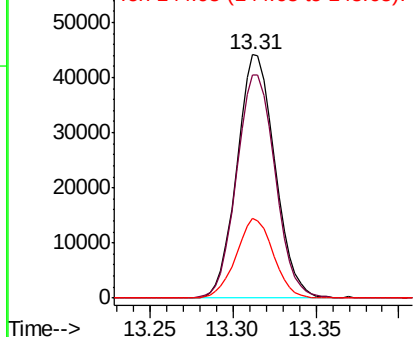
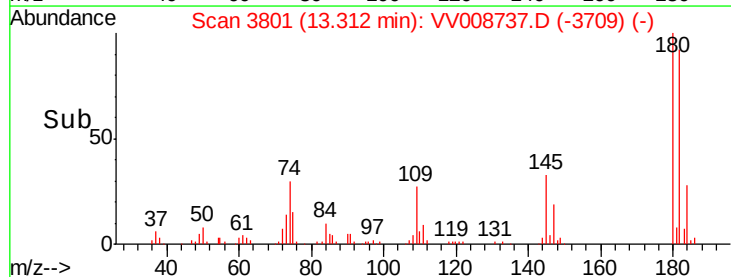


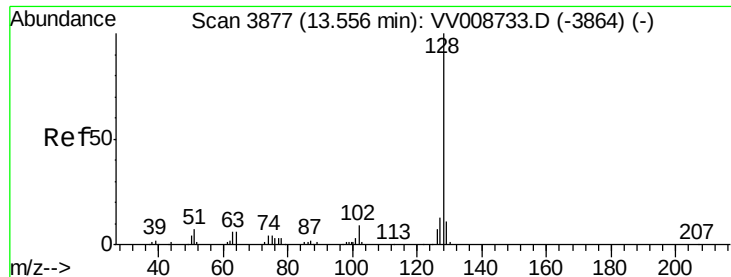
#68  
 1,2,4-trichlorobenzene  
 Concen: 5.547 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV008737.D  
 Acq: 28 Nov 2018 15:09

Tgt Ion:180 Resp: 70465  
 Ion Ratio Lower Upper  
 180 100  
 182 93.2 74.4 111.6  
 145 31.9 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: 5.520 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00568

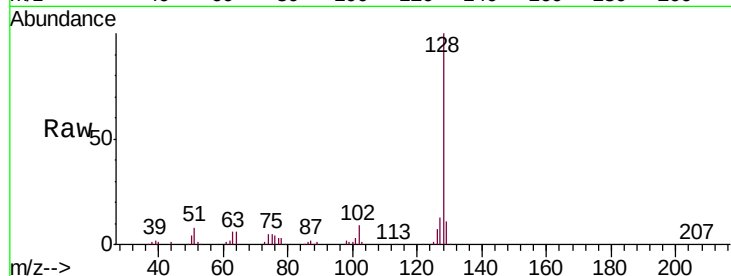
Tgt Ion:128 Resp: 102038

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

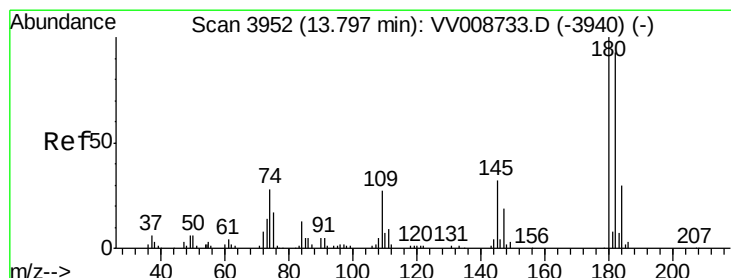
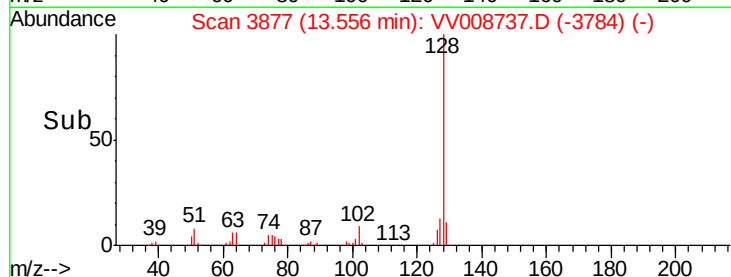
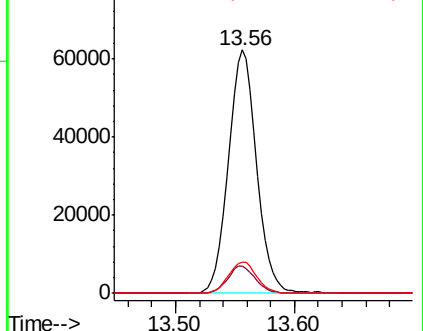
127 12.9 10.3 15.5



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: 5.729 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008737.D

Acq: 28 Nov 2018 15:09

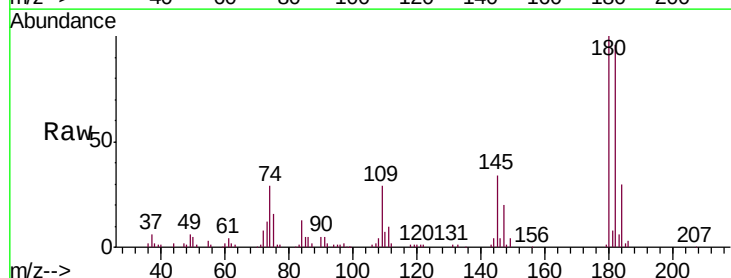
Tgt Ion:180 Resp: 65975

Ion Ratio Lower Upper

180 100

182 93.7 75.4 113.2

145 33.3 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

