

Data File : VV008570.D  
Acq On : 15 Nov 2018 12:43  
Operator : SY/MD  
Sample : VSTD10071  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

Quant Time: Nov 16 04:00:10 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM111518WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 16 03:55:39 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 279705   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 254047   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 122560   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 186684 | 166.22 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.56  | 69  | 117532 | 133.96 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 315169 | 134.73 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 320920 | 211.28 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 400119 | 125.82 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 255146 | 124.50 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 814841 | 140.04 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 257939 | 130.47 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 740300 | 141.32 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 131421 | 143.22 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.13  | 63  | 243852 | 225.32 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 345595 | 118.62 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 272219 | 122.70 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |         |      | Qvalue |
|--------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 208702 | 95.831  | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 194699 | 89.609  | ug/L | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 192659 | 96.657  | ug/L | 98     |
| 6) Bromomethane                | 1.52 | 94  | 56848  | 93.870  | ug/L | 97     |
| 8) Chloroethane                | 1.58 | 64  | 99126  | 92.378  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 255056 | 97.109  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 143222 | 98.988  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 131209 | 97.535  | ug/L | 97     |
| 13) Acetone                    | 2.19 | 43  | 225219 | 162.687 | ug/L | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 534212 | 96.500  | ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 227923 | 90.145  | ug/L | 99     |
| 16) Methylene chloride         | 2.54 | 84  | 198375 | 94.133  | ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 185363 | 96.528  | ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 629903 | 95.424  | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 356104 | 93.791  | ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 210877 | 95.805  | ug/L | 98     |
| 22) 2-Butanone                 | 4.02 | 43  | 335632 | 176.354 | ug/L | 99     |
| 23) Bromochloromethane         | 4.30 | 128 | 100935 | 97.516  | ug/L | 95     |
| 25) Chloroform                 | 4.43 | 83  | 365962 | 95.133  | ug/L | 96     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 284927 | 93.428  | ug/L | 99     |
| 29) Cyclohexane                | 4.73 | 56  | 348737 | 99.202  | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 322076 | 98.544  | ug/L | 99     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 279256 | 101.379 | ug/L | 98     |
| 33) Benzene                    | 5.15 | 78  | 795164 | 100.066 | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 205779 | 100.211 | ug/L | 99     |
| 35) Methylcyclohexane          | 6.18 | 83  | 354313 | 104.083 | ug/L | 97     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 214346 | 98.737  | ug/L | 99     |
| 38) Bromodichloromethane       | 6.56 | 83  | 270454 | 99.307  | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 339700 | 104.682 | ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 596675 | 190.277 | ug/L | 100    |

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Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

Quant Time: Nov 16 04:00:10 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM111518WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 16 03:55:39 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 824066   | 98.763  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 313654   | 105.022 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 190548   | 97.690  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.02  | 164  | 148619   | 101.166 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 462052   | 193.738 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.29  | 129  | 212520   | 104.994 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 201644   | 98.886  | ug/L  | 99       |
| 51) Chlorobenzene              | 8.93  | 112  | 520260   | 99.047  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 926058   | 100.089 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 342486   | 101.168 | ug/L  | 98       |
| 54) o-xylene                   | 9.59  | 106  | 334794   | 98.612  | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 566711   | 102.355 | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 897566   | 101.175 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 320198   | 99.709  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 260902   | 96.437  | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 145434   | 98.403  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 390436   | 95.993  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 394805   | 97.825  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 401515   | 97.254  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 72599    | 96.039  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 281006   | 104.920 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 240437   | 115.381 | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 754234   | 119.845 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 239778   | 113.613 | ug/L  | 100      |

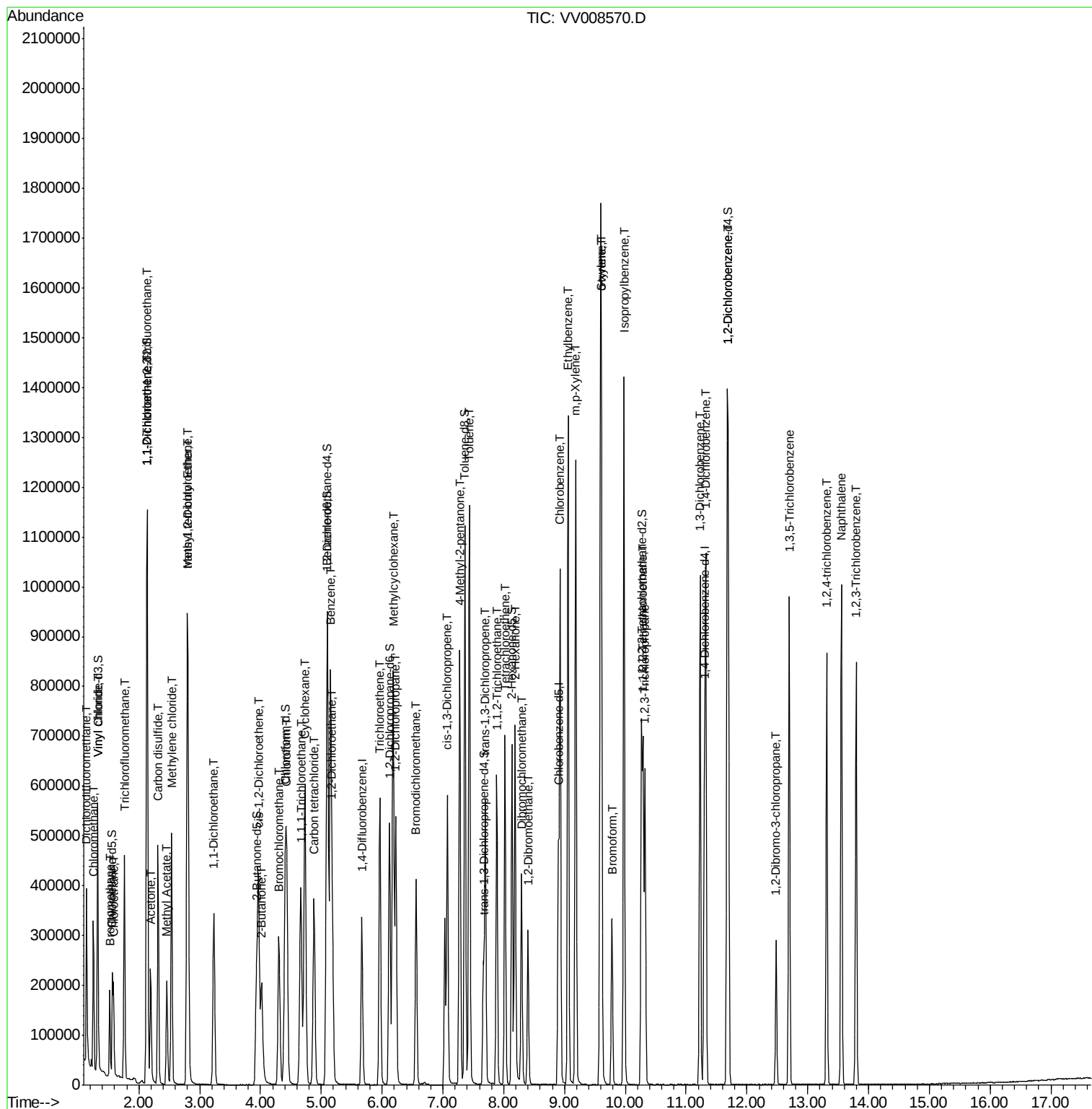
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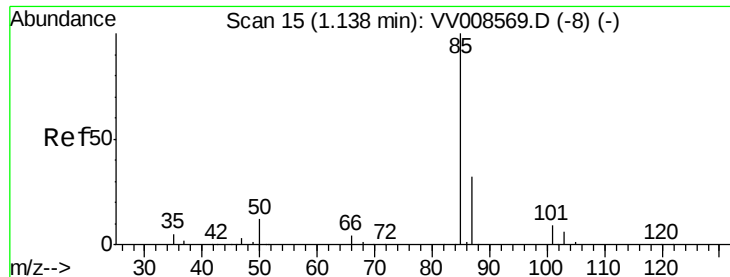
Data File : VV008570.D

```
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Operator    : SY/MD
Sample      : VSTD10071
Misc        : 5.0 mL/MSV0A_V/WATER
ALS Vial     : 5      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD10071

Quant Time: Nov 16 04:00:10 2018  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM111518WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 16 03:55:39 2018  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 95.831 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

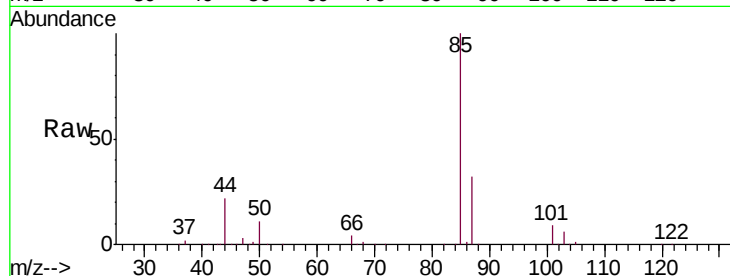
VSTD10071

Tgt Ion: 85 Resp: 208702

Ion Ratio Lower Upper

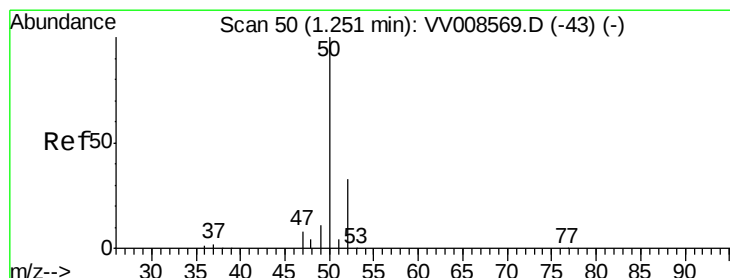
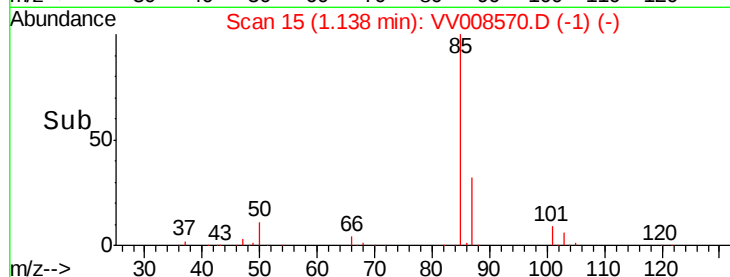
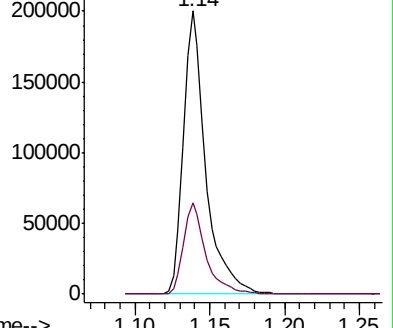
85 100

87 32.2 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV008569.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008569.D (-8) (-)



#3

Chloromethane

Concen: 89.609 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV008570.D

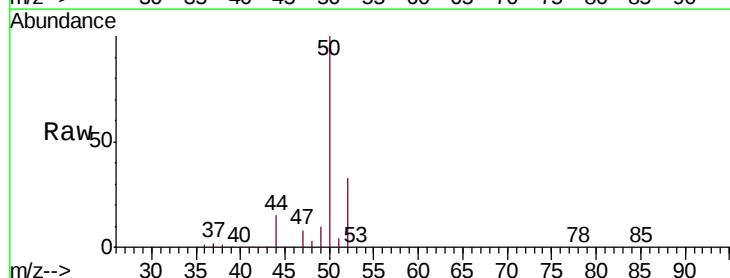
Acq: 15 Nov 2018 12:43

Tgt Ion: 50 Resp: 194699

Ion Ratio Lower Upper

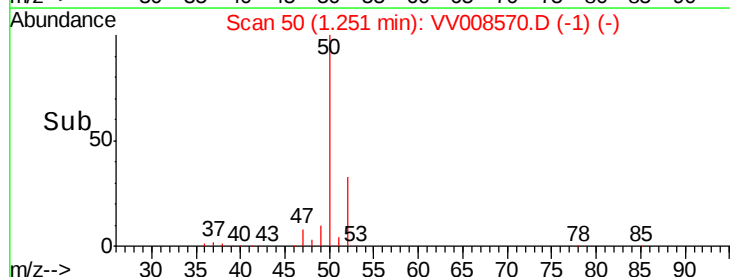
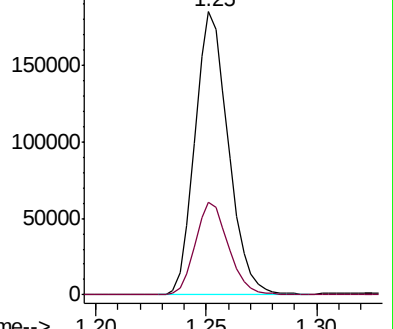
50 100

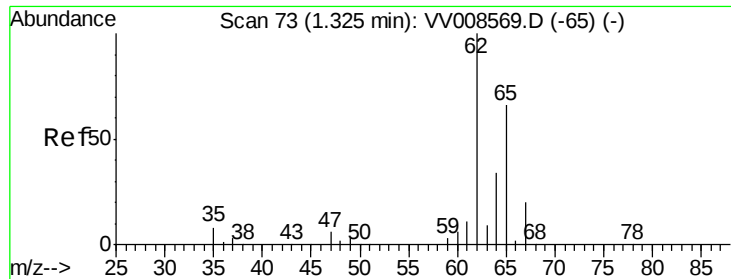
52 32.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV008569.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV008569.D (-43) (-)





#5

Vinyl chloride

Concen: 96.657 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

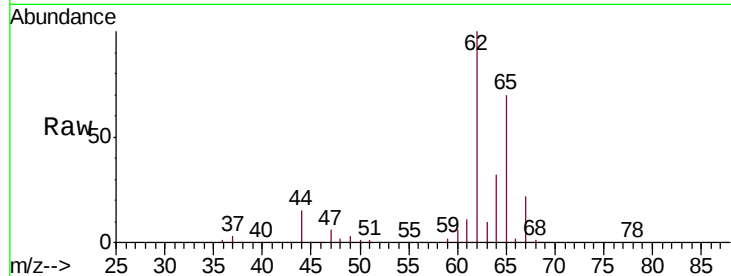
VSTD10071

Tgt Ion: 62 Resp: 192659

Ion Ratio Lower Upper

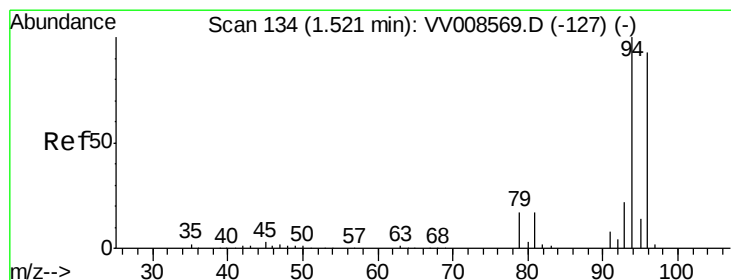
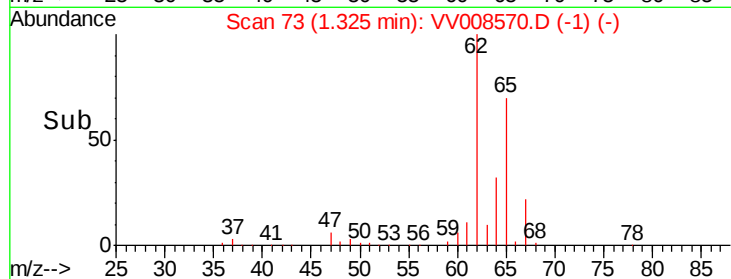
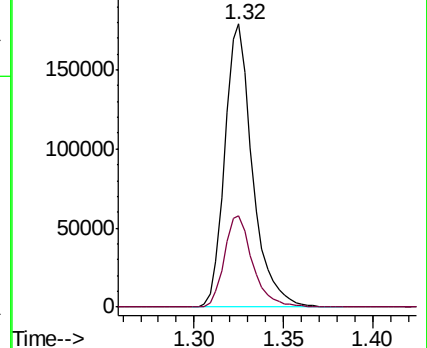
62 100

64 32.5 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 93.870 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.00 min

Lab File: VV008570.D

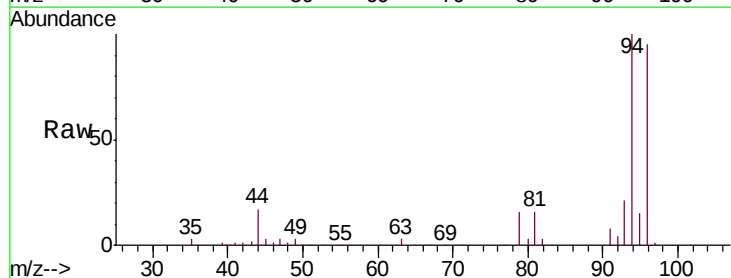
Acq: 15 Nov 2018 12:43

Tgt Ion: 94 Resp: 56848

Ion Ratio Lower Upper

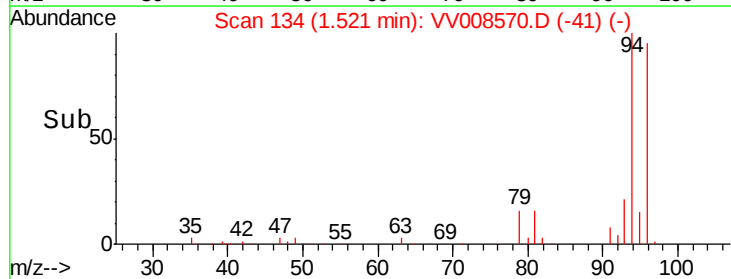
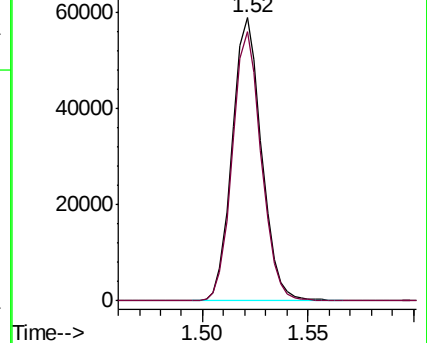
94 100

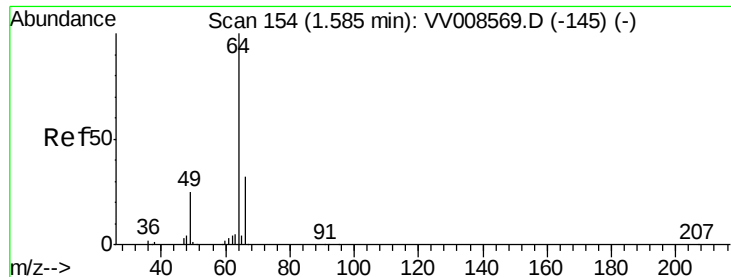
96 95.3 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 92.378 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

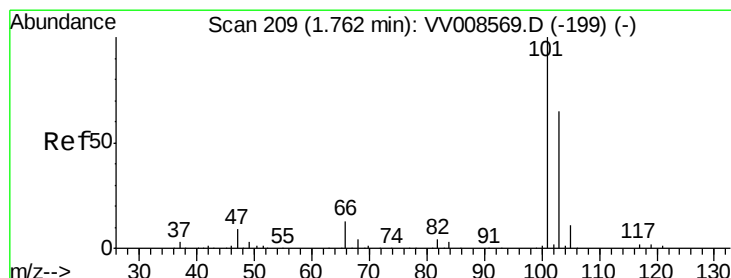
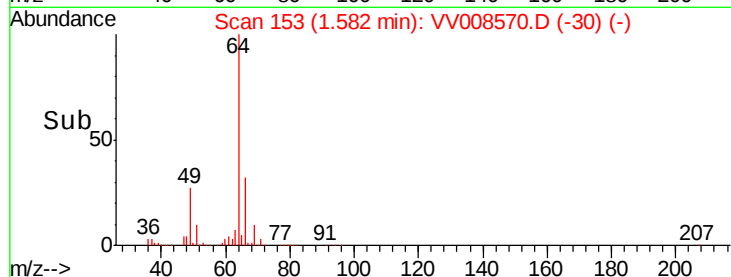
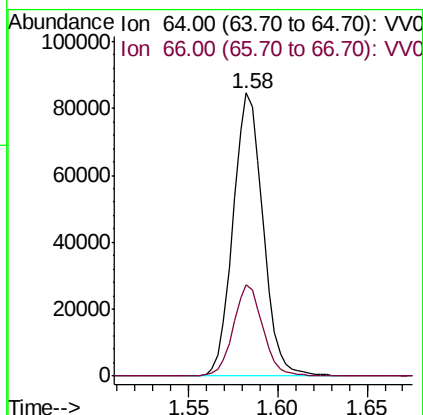
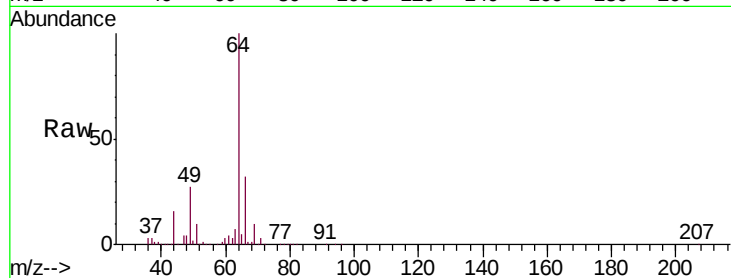
VSTD10071

Tgt Ion: 64 Resp: 99126

Ion Ratio Lower Upper

64 100

66 32.1 22.0 41.0



#9

Trichlorofluoromethane

Concen: 97.109 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV008570.D

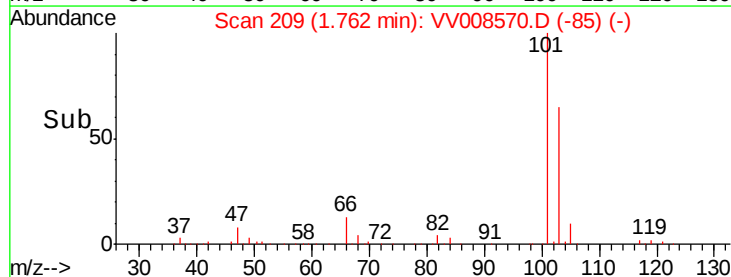
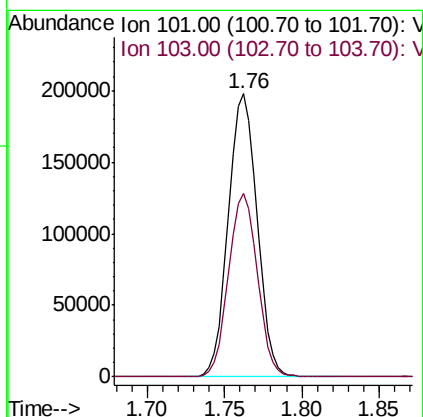
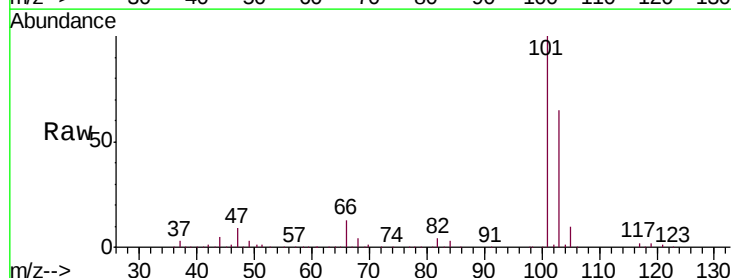
Acq: 15 Nov 2018 12:43

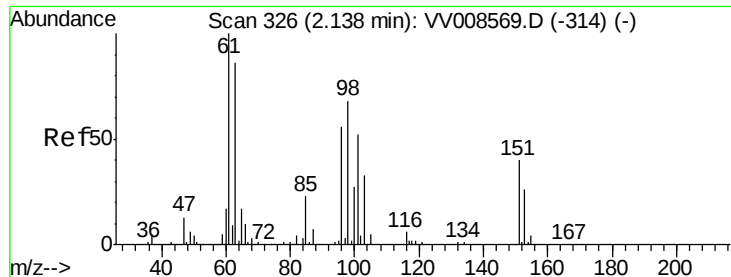
Tgt Ion: 101 Resp: 255056

Ion Ratio Lower Upper

101 100

103 64.9 52.5 78.7





#10

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

Concen: 98.988 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

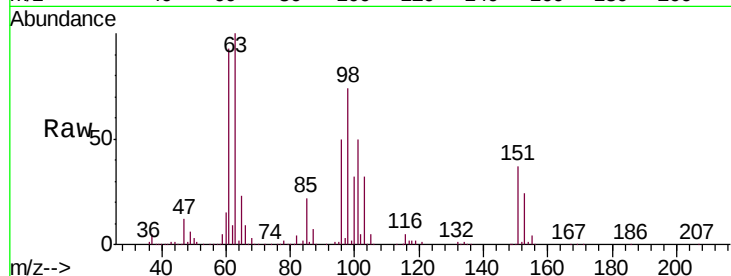
Tgt Ion: 101 Resp: 143222

Ion Ratio Lower Upper

101 100

85 43.4 35.7 53.5

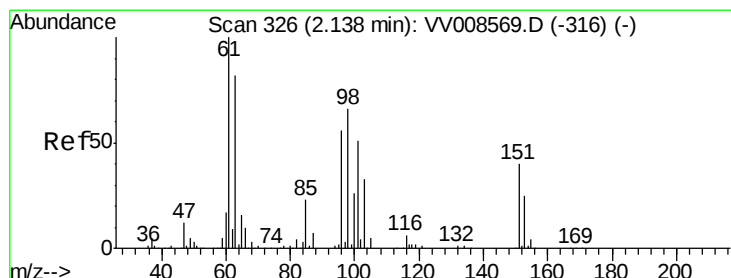
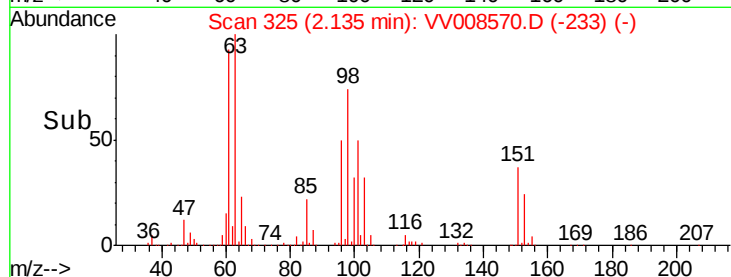
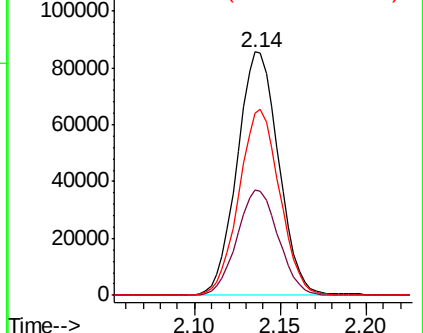
151 75.3 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): VV008570.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV008570.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV008570.D (-233) (-)



#12

1,1-Dichloroethene

Concen: 97.535 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

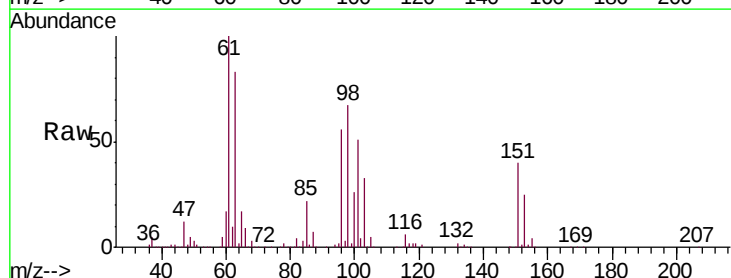
Tgt Ion: 96 Resp: 131209

Ion Ratio Lower Upper

96 100

61 177.7 125.6 233.2

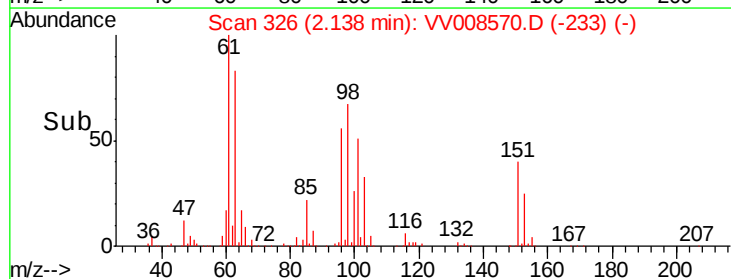
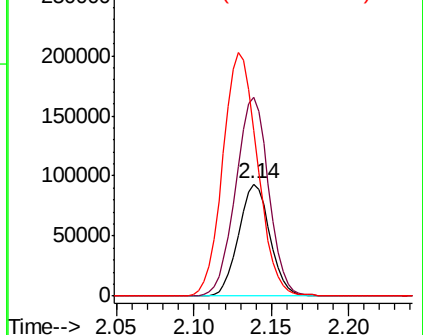
63 148.3 108.3 201.1

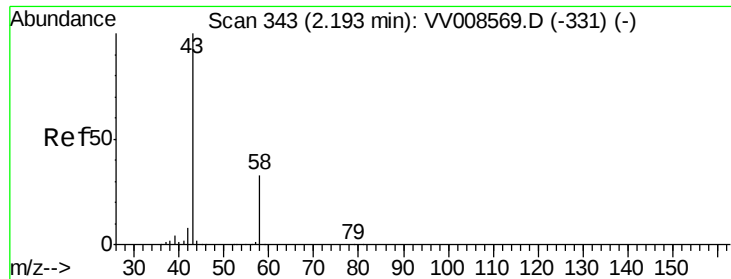


Abundance Ion 96.00 (95.70 to 96.70): VV008570.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV008570.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV008570.D (-233) (-)





#13

Acetone

Concen: 162.687 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

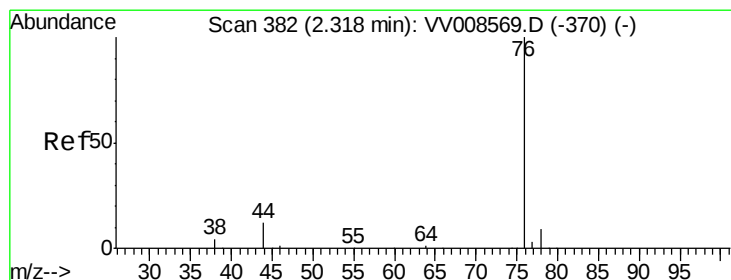
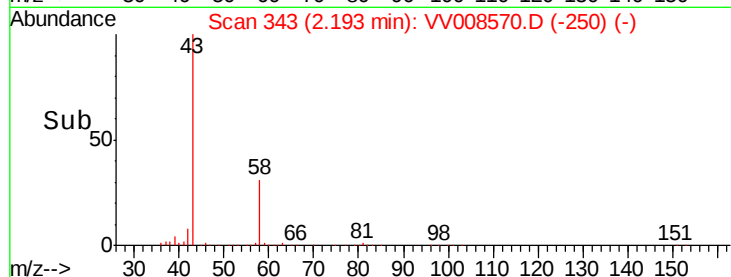
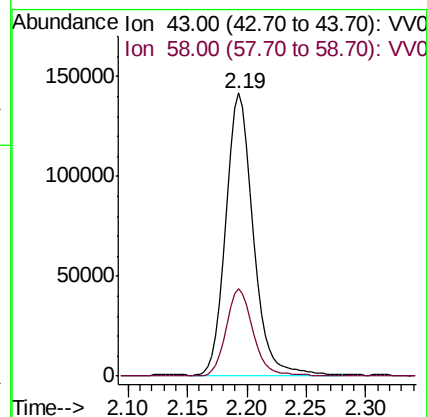
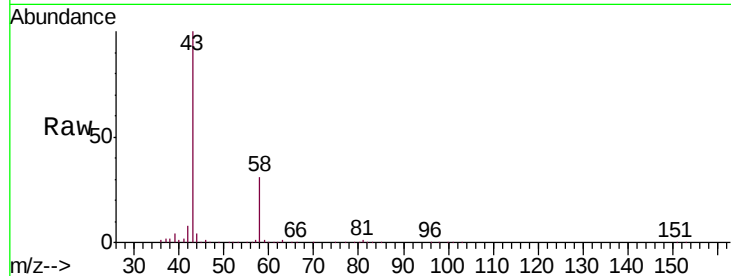
VSTD10071

Tgt Ion: 43 Resp: 225219

Ion Ratio Lower Upper

43 100

58 31.0 0.0 64.2



#14

Carbon disulfide

Concen: 96.500 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008570.D

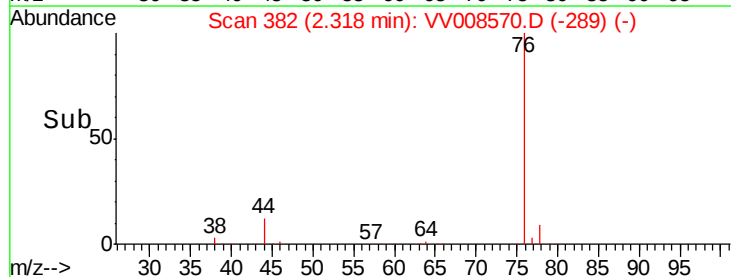
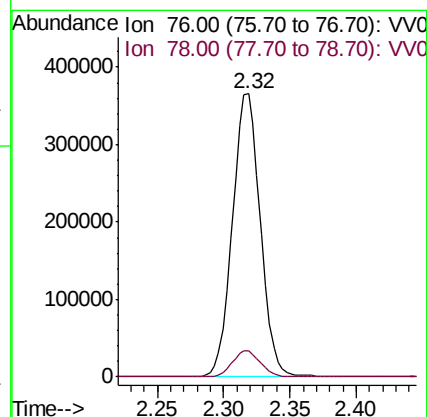
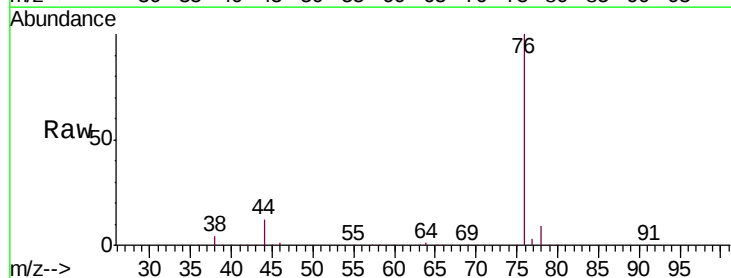
Acq: 15 Nov 2018 12:43

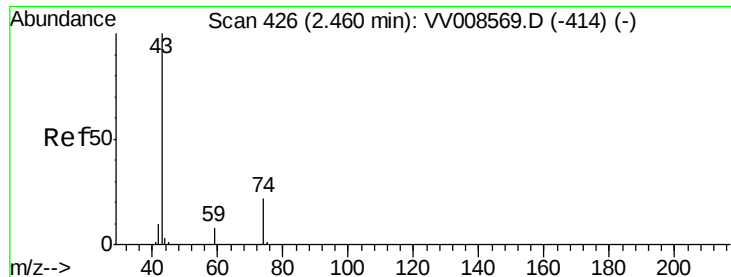
Tgt Ion: 76 Resp: 534212

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

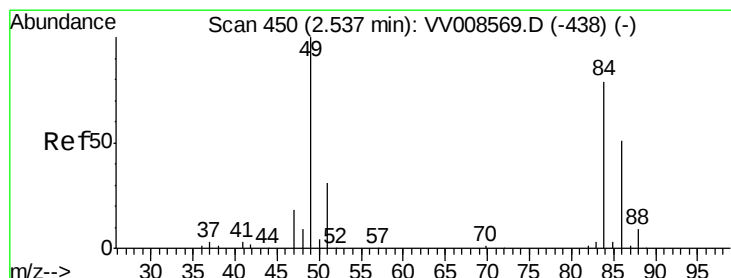
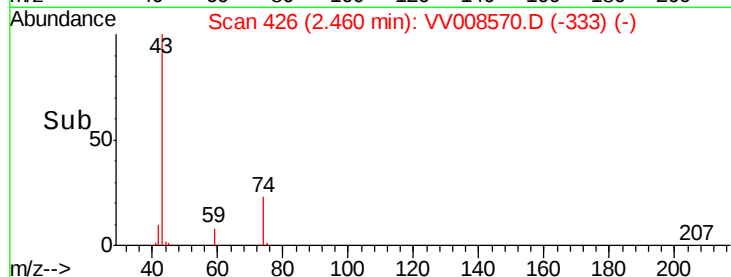
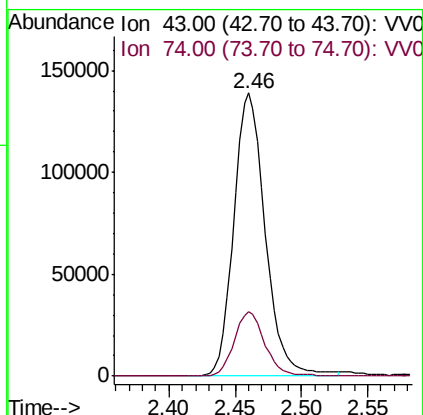
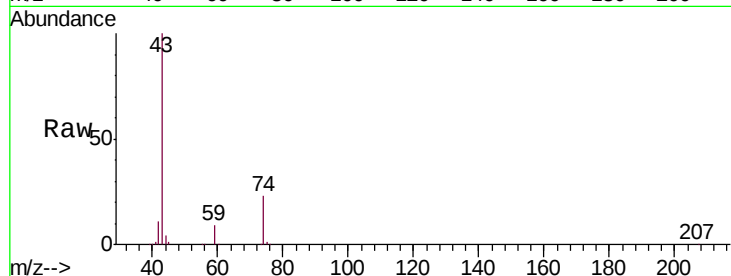




#15  
Methyl Acetate  
Concen: 90.145 ug/L  
RT: 2.46 min Scan# 426  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

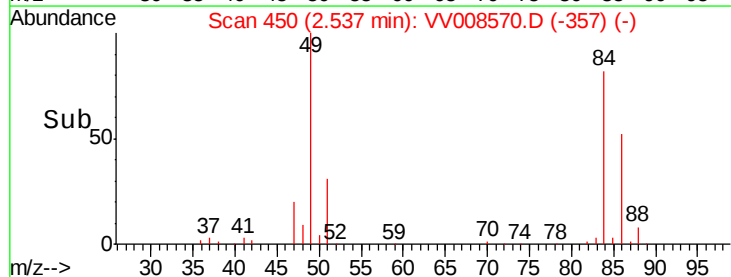
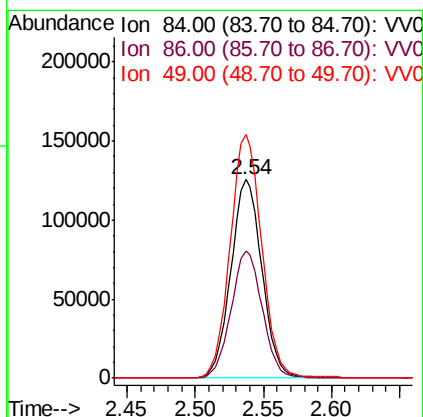
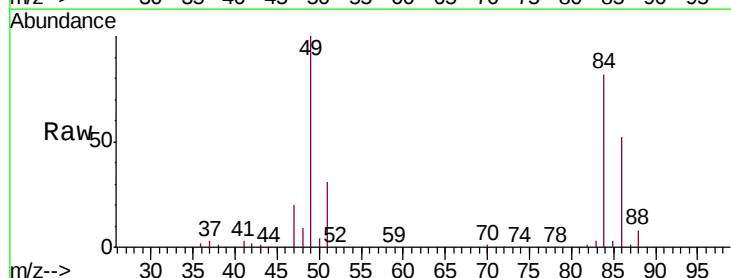
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

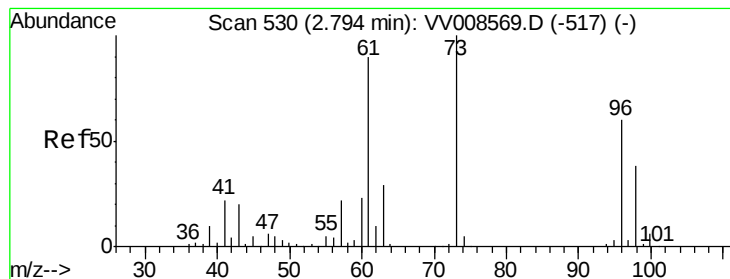
Tgt Ion: 43 Resp: 227923  
Ion Ratio Lower Upper  
43 100  
74 22.3 18.2 27.4



#16  
Methylene chloride  
Concen: 94.133 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Tgt Ion: 84 Resp: 198375  
Ion Ratio Lower Upper  
84 100  
86 64.3 44.8 83.2  
49 122.6 88.1 163.7





#17

trans-1,2-Dichloroethene

Concen: 96.528 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

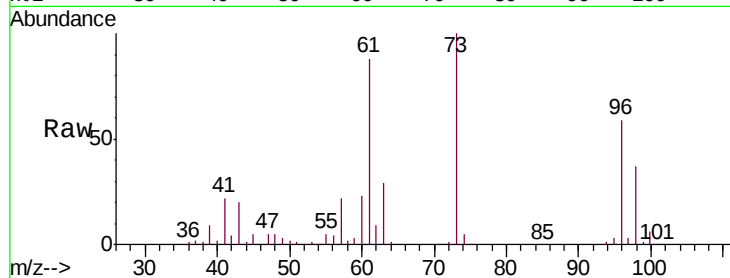
Tgt Ion: 96 Resp: 185363

Ion Ratio Lower Upper

96 100

61 148.2 104.9 194.9

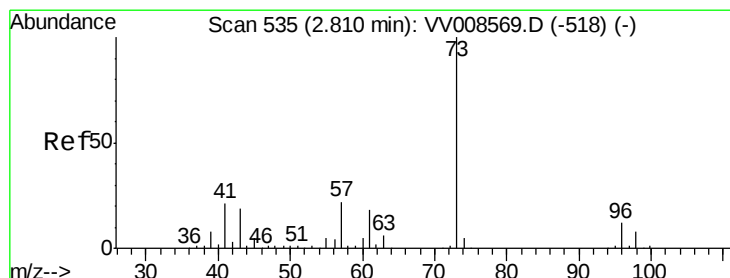
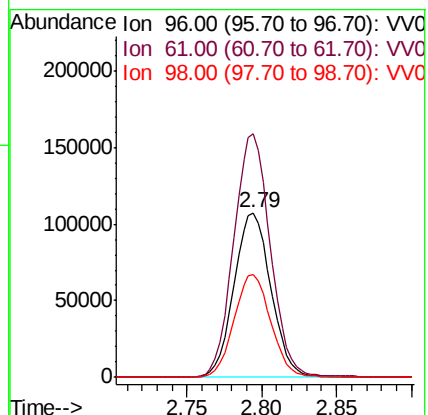
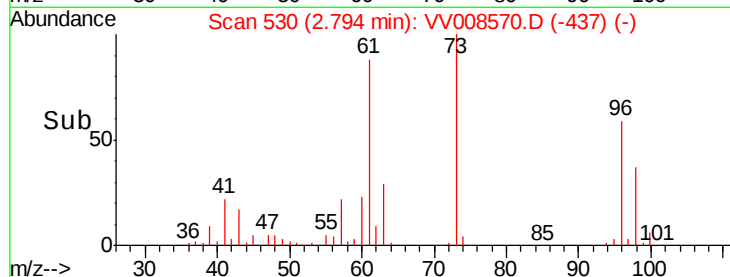
98 62.8 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VV008570.D (-437) (-)

Ion 61.00 (60.70 to 61.70): VV008570.D (-437) (-)

Ion 98.00 (97.70 to 98.70): VV008570.D (-437) (-)



#18

Methyl tert-butyl Ether

Concen: 95.424 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

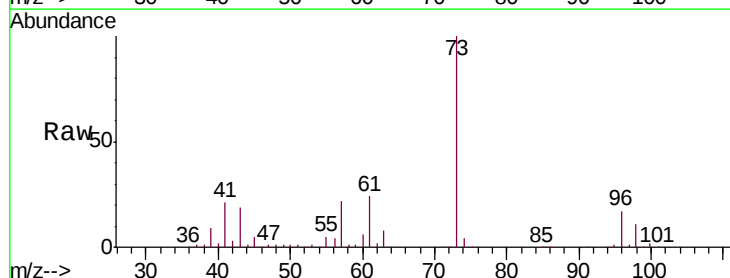
Tgt Ion: 73 Resp: 629903

Ion Ratio Lower Upper

73 100

43 19.3 15.4 23.2

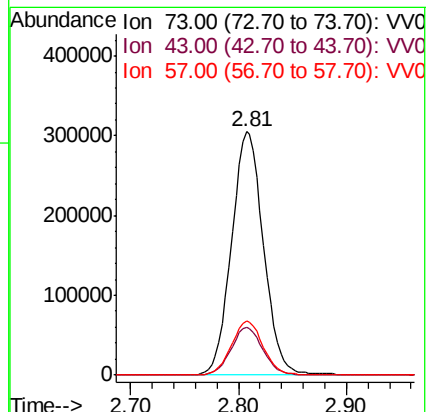
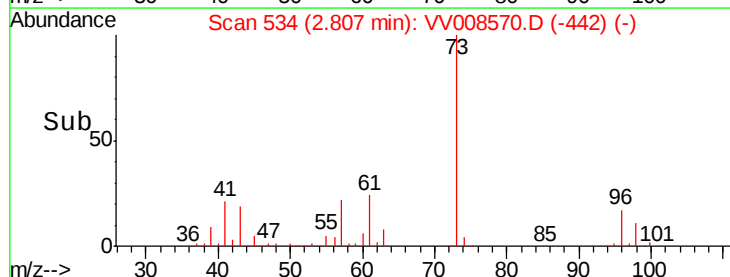
57 22.1 17.5 26.3

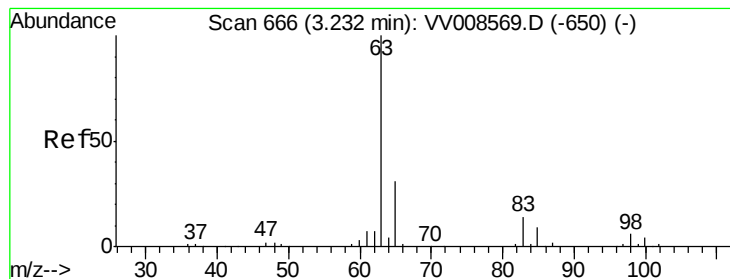


Abundance Ion 73.00 (72.70 to 73.70): VV008570.D (-442) (-)

Ion 43.00 (42.70 to 43.70): VV008570.D (-442) (-)

Ion 57.00 (56.70 to 57.70): VV008570.D (-442) (-)





#19

1,1-Dichloroethane

Concen: 93.791 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

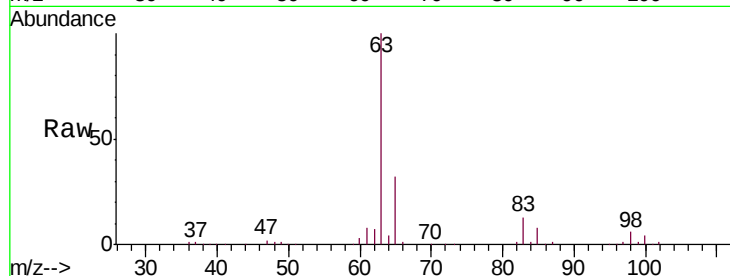
Tgt Ion: 63 Resp: 356104

Ion Ratio Lower Upper

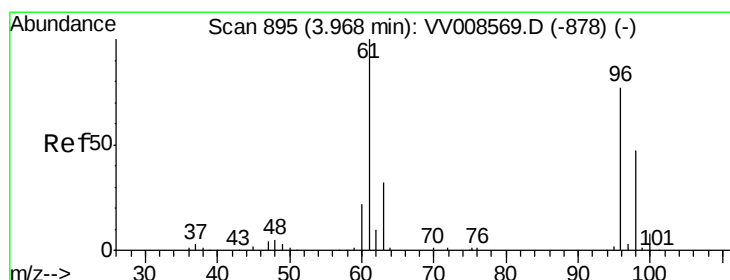
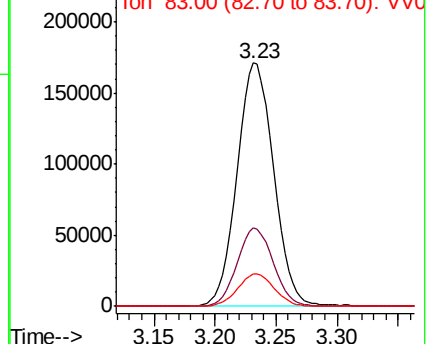
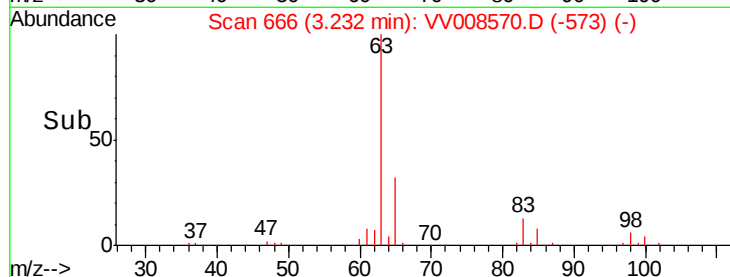
63 100

65 32.2 21.8 40.6

83 13.1 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV008570.D (-573) (-)



#20

cis-1,2-Dichloroethene

Concen: 95.805 ug/L

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

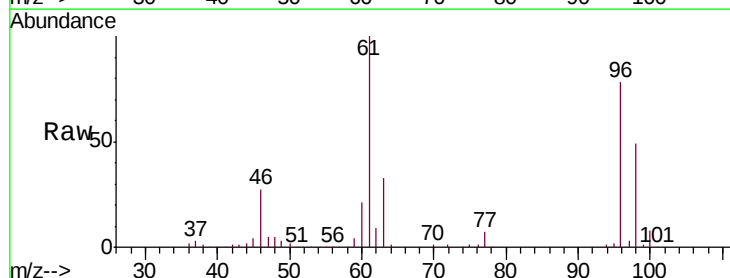
Tgt Ion: 96 Resp: 210877

Ion Ratio Lower Upper

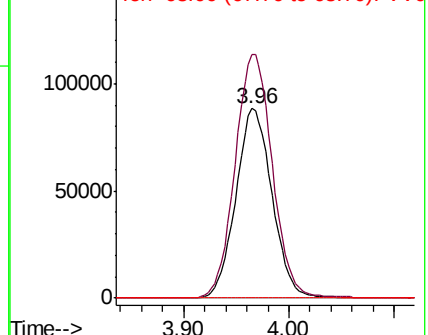
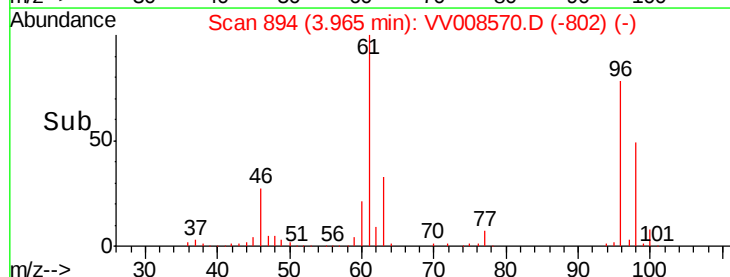
96 100

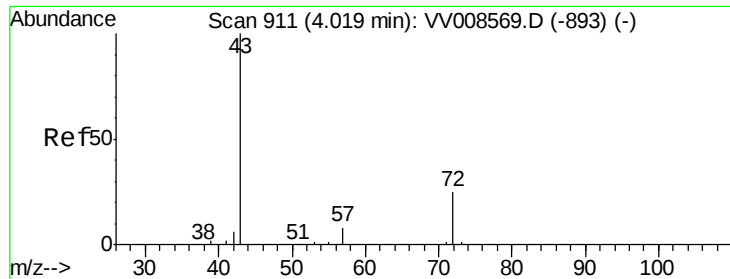
61 128.3 91.3 169.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV008570.D (-802) (-)





#22

2-Butanone

Concen: 176.354 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampled :

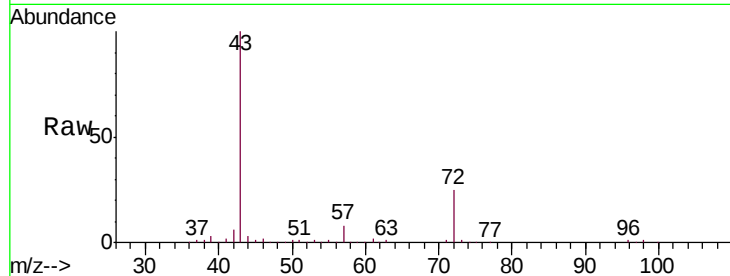
VSTD10071

Tgt Ion: 43 Resp: 335632

Ion Ratio Lower Upper

43 100

72 25.5 12.4 37.4



Abundance Ion 43.00 (42.70 to 43.70): VV008570.D (-910) (-)

Ion 72.00 (71.70 to 72.70): VV008570.D (-910) (-)

4.02

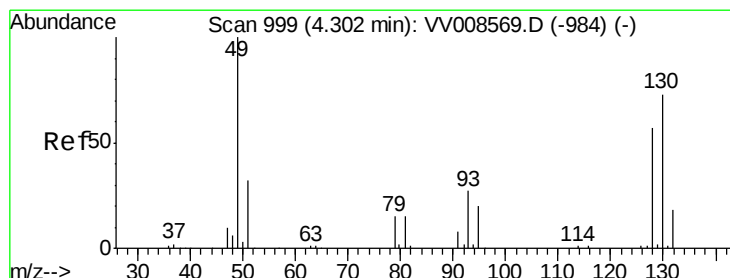
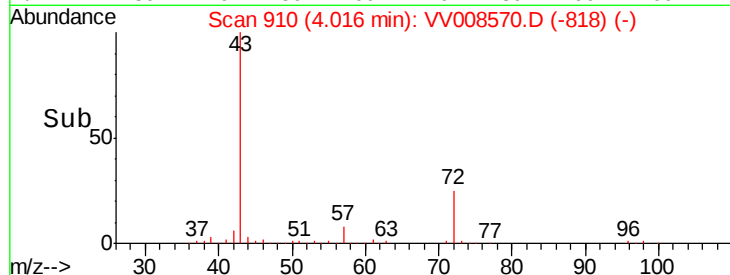
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 97.516 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Tgt Ion: 128 Resp: 100935

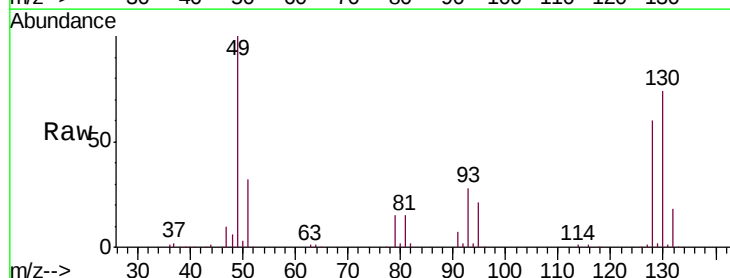
Ion Ratio Lower Upper

128 100

49 167.5 122.8 228.1

130 123.3 89.9 167.0

51 53.2 44.3 66.5



Abundance Ion 128.00 (127.70 to 128.70): VV008570.D (-999) (-)

Ion 49.00 (48.70 to 49.70): VV008570.D (-999) (-)

Ion 130.00 (129.70 to 130.70): VV008570.D (-999) (-)

Ion 51.00 (50.70 to 51.70): VV008570.D (-999) (-)

4.30

100000

80000

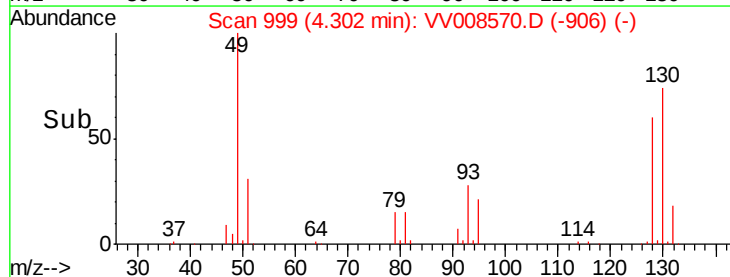
60000

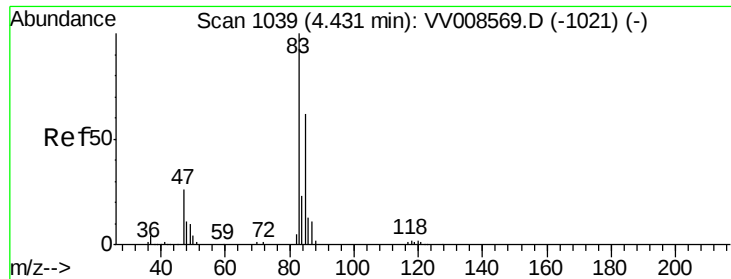
40000

20000

0

Time-->





#25

Chloroform

Concen: 95.133 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

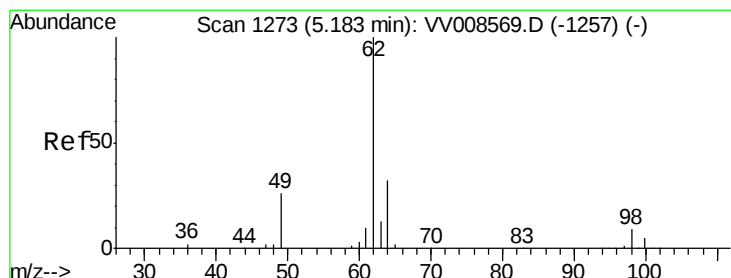
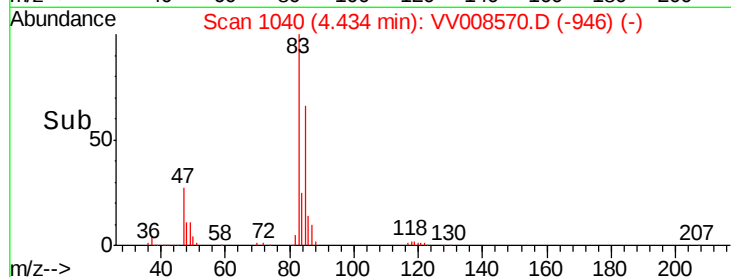
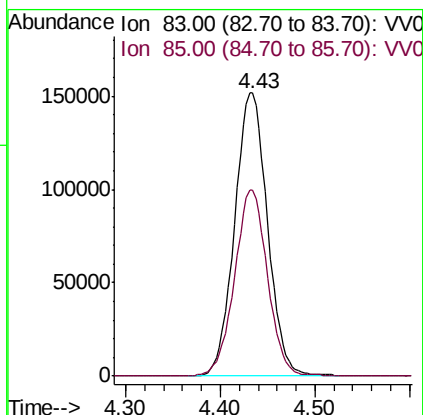
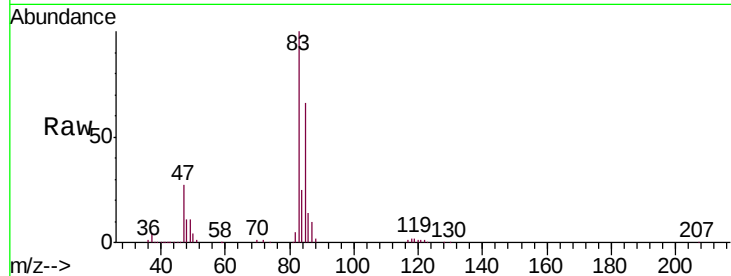
VSTD10071

Tgt Ion: 83 Resp: 365962

Ion Ratio Lower Upper

83 100

85 65.8 43.8 81.4



#27

1,2-Dichloroethane

Concen: 93.428 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VV008570.D

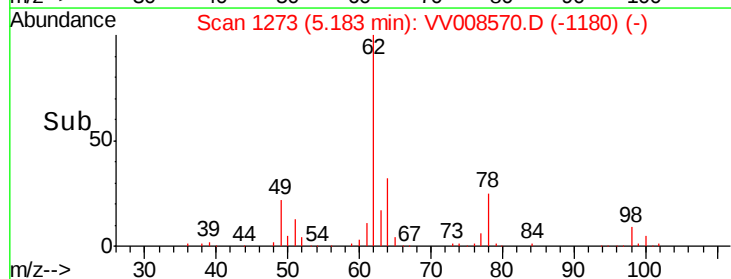
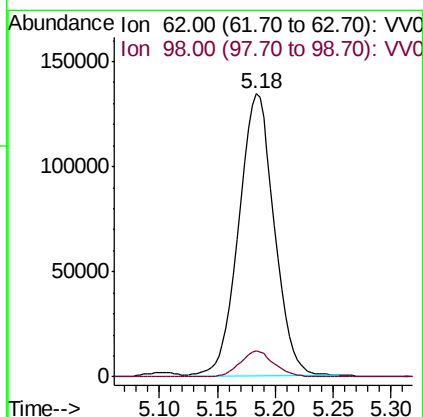
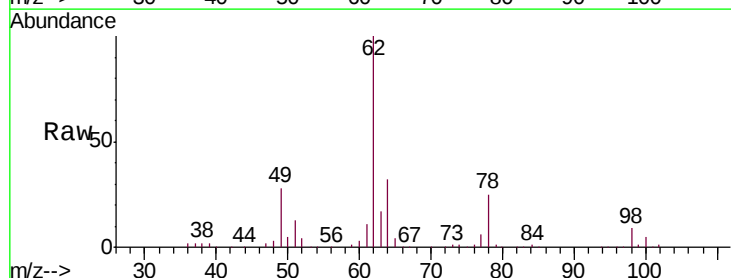
Acq: 15 Nov 2018 12:43

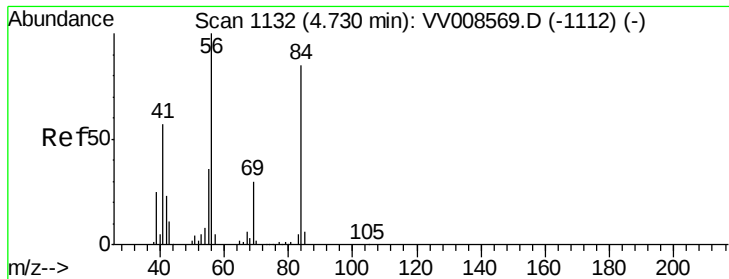
Tgt Ion: 62 Resp: 284927

Ion Ratio Lower Upper

62 100

98 9.1 7.0 10.4

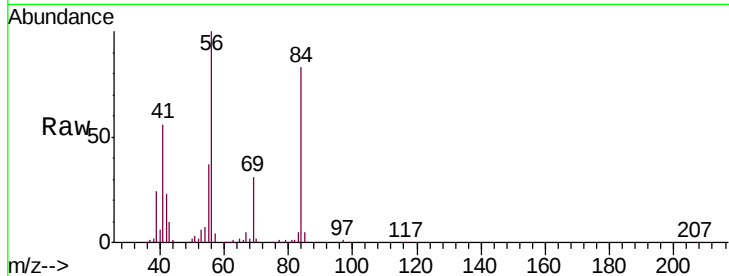




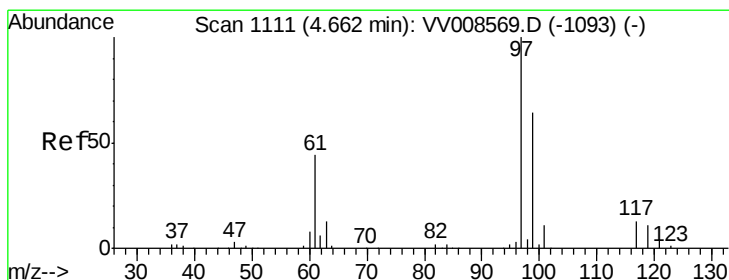
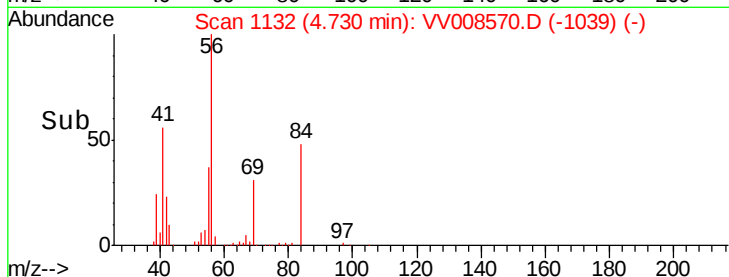
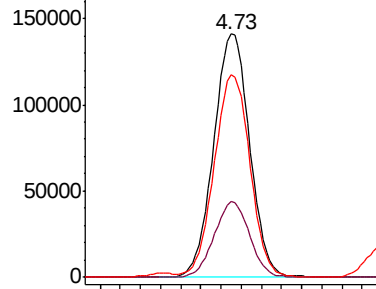
#29  
Cyclohexane  
Concen: 99.202 ug/L  
RT: 4.73 min Scan# 1132  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

Tgt Ion: 56 Resp: 348737  
Ion Ratio Lower Upper  
56 100  
69 30.6 24.2 36.2  
84 83.0 66.0 99.0

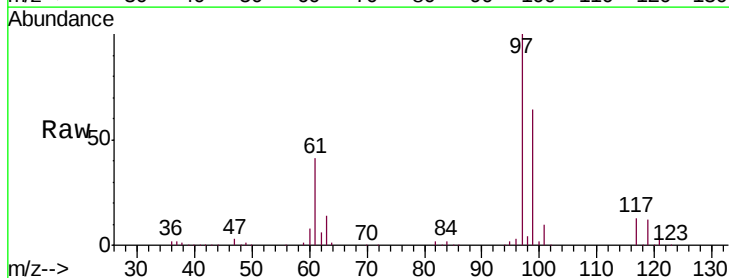


Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0

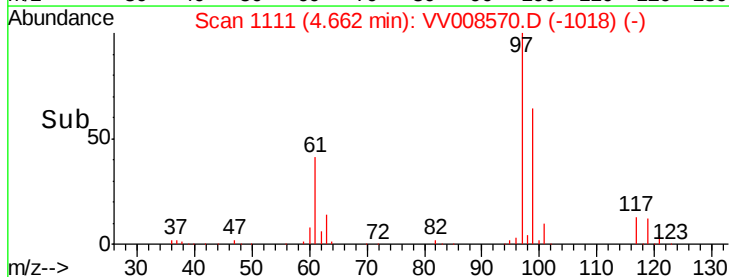
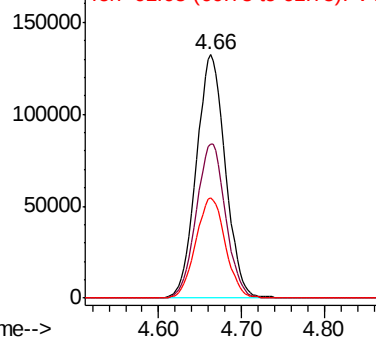


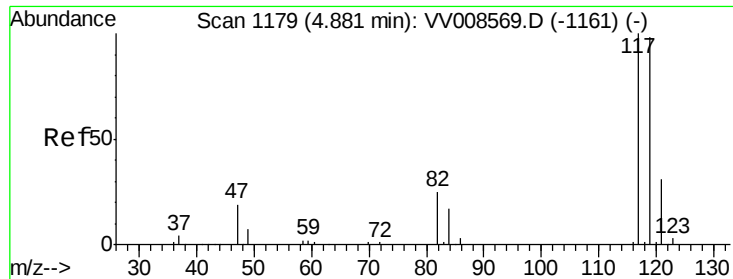
#30  
1,1,1-Trichloroethane  
Concen: 98.544 ug/L  
RT: 4.66 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Tgt Ion: 97 Resp: 322076  
Ion Ratio Lower Upper  
97 100  
99 64.1 51.4 77.2  
61 42.1 34.3 51.5



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

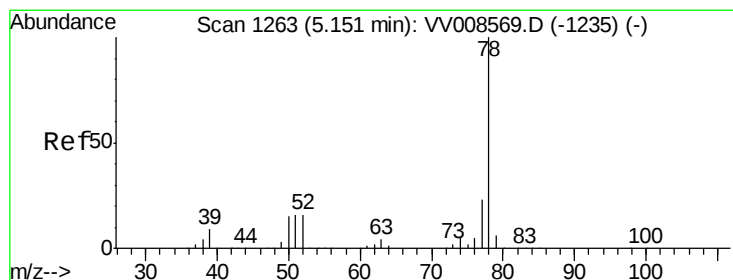
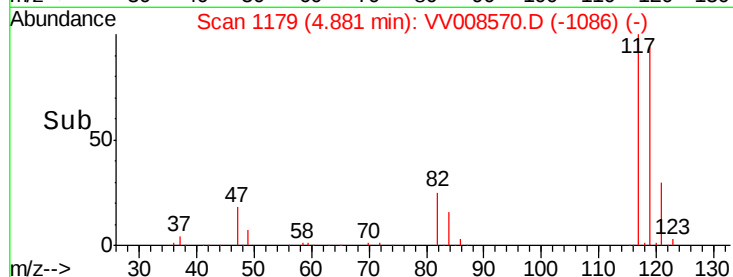
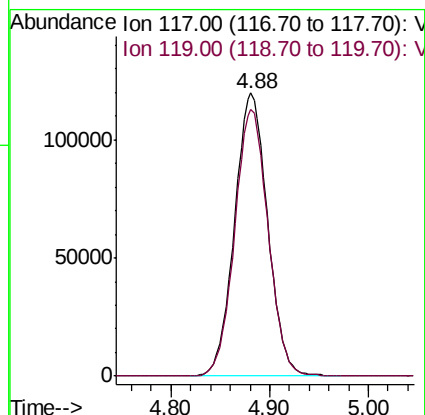
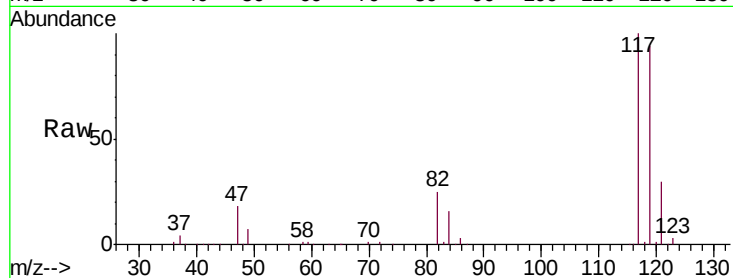




#31  
Carbon tetrachloride  
Concen: 101.379 ug/L  
RT: 4.88 min Scan# 1179  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

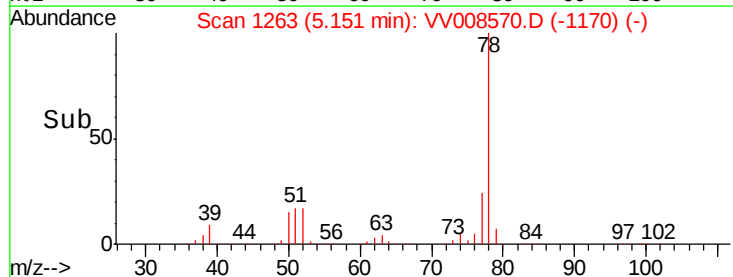
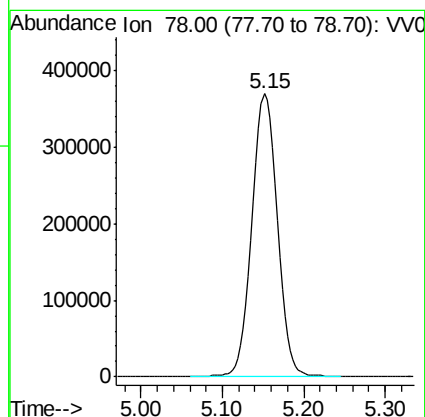
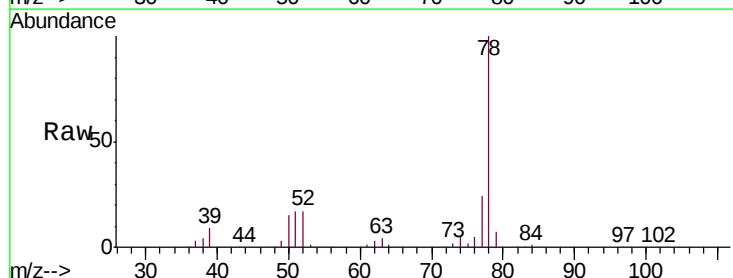
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

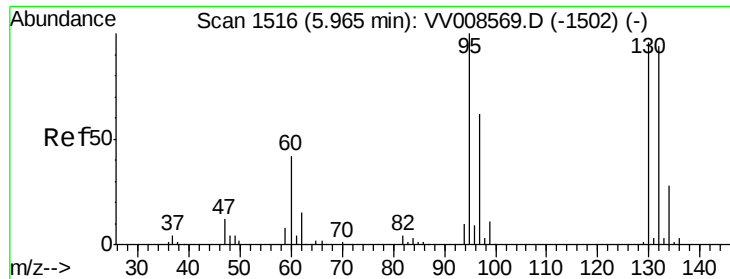
Tgt Ion:117 Resp: 279256  
Ion Ratio Lower Upper  
117 100  
119 95.0 77.4 116.0



#33  
Benzene  
Concen: 100.066 ug/L  
RT: 5.15 min Scan# 1263  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Tgt Ion: 78 Resp: 795164





#34

Trichloroethene

Concen: 100.211 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

Tgt Ion: 95 Resp: 205779

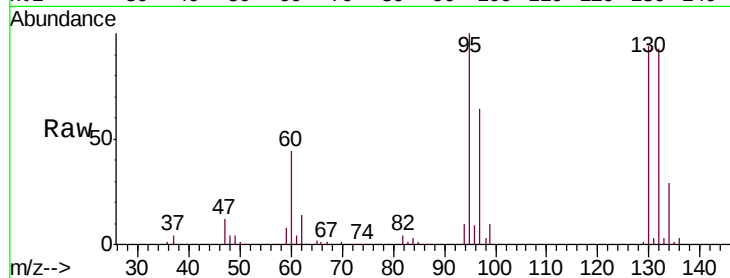
Ion Ratio Lower Upper

95 100

97 63.6 43.6 81.0

132 92.9 65.9 122.3

130 94.0 66.9 124.3

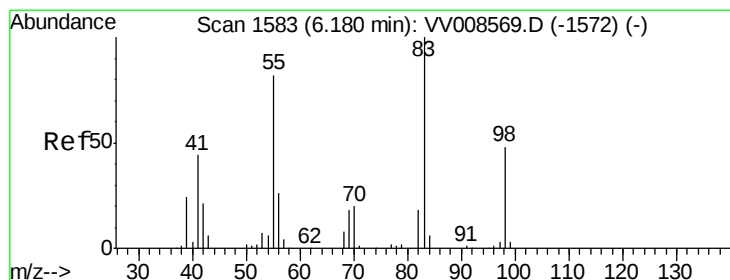
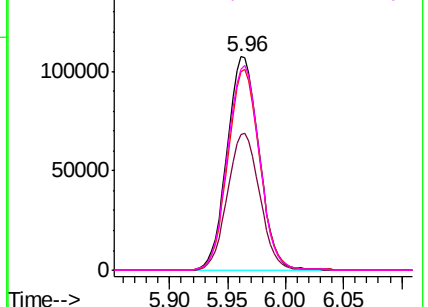
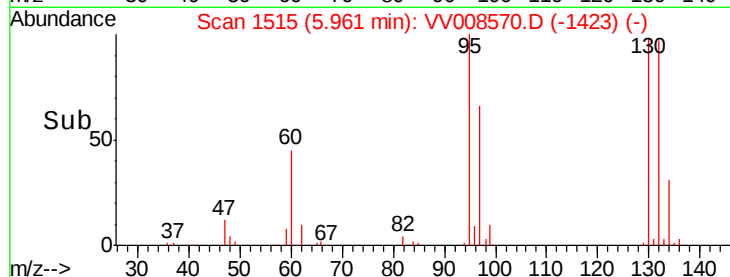


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 104.083 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

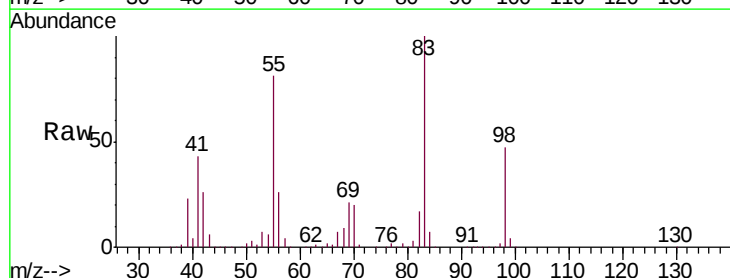
Tgt Ion: 83 Resp: 354313

Ion Ratio Lower Upper

83 100

55 79.2 65.5 98.3

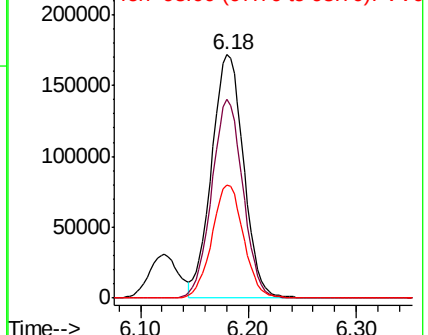
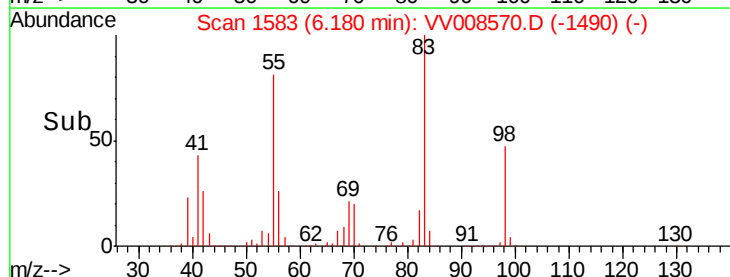
98 46.3 37.9 56.9

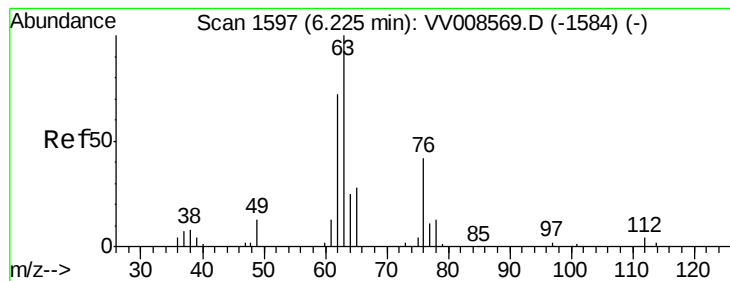


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 98.737 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

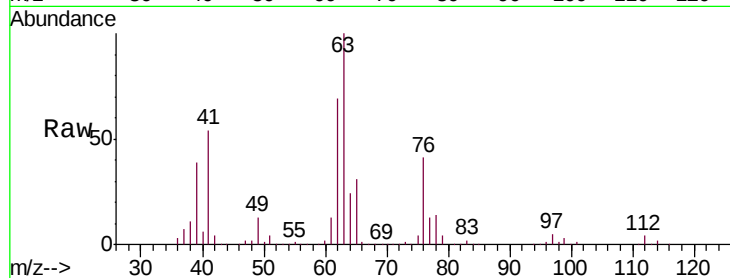
VSTD10071

Tgt Ion: 63 Resp: 214346

Ion Ratio Lower Upper

63 100

112 3.7 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VV008569.D (-1584) (-)

Ion 112.00 (111.70 to 112.70): VV008569.D (-1584) (-)

6.23

120000

100000

80000

60000

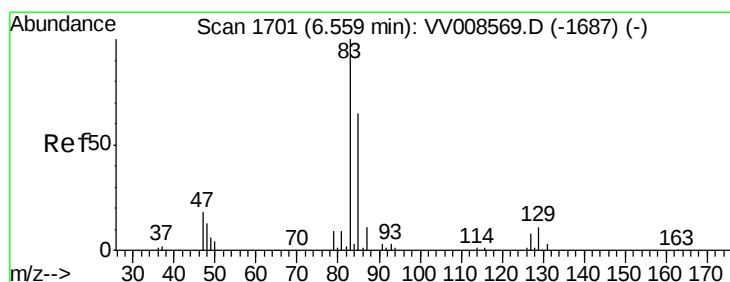
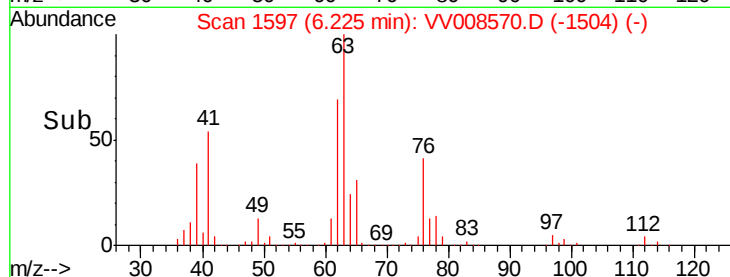
40000

20000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 99.307 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

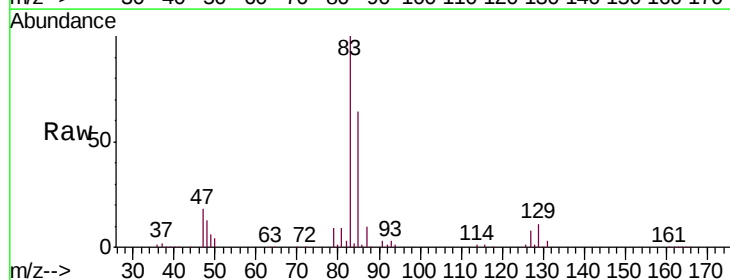
Tgt Ion: 83 Resp: 270454

Ion Ratio Lower Upper

83 100

85 64.4 45.4 84.4

127 8.5 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VV008569.D (-1687) (-)

Ion 85.00 (84.70 to 85.70): VV008569.D (-1687) (-)

Ion 127.00 (126.70 to 127.70): VV008569.D (-1687) (-)

6.56

200000

150000

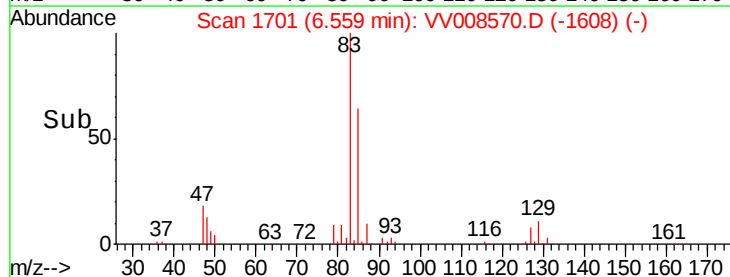
100000

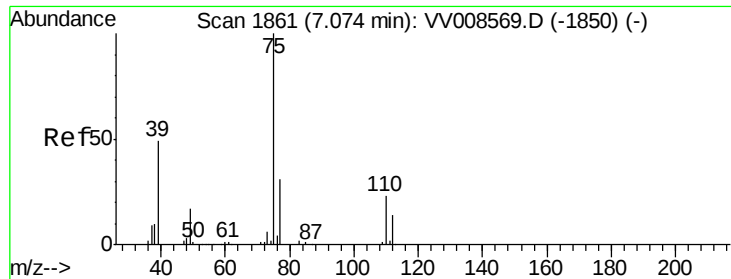
50000

0

6.45 6.50 6.55 6.60 6.65

Time-->

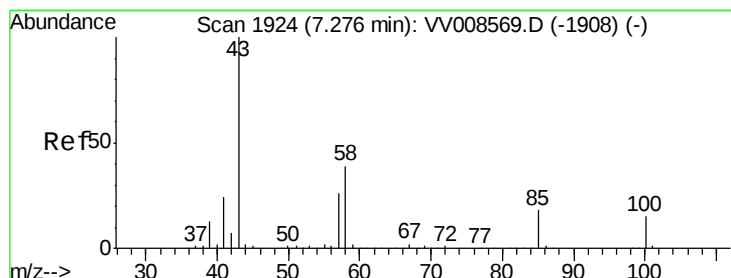
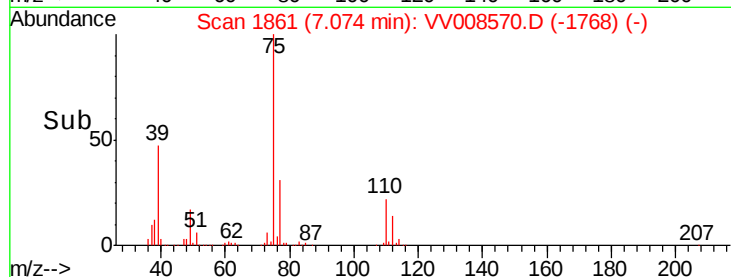
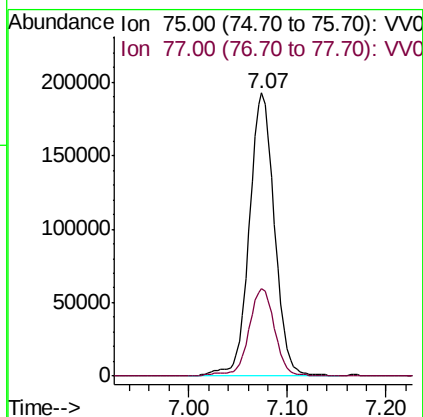
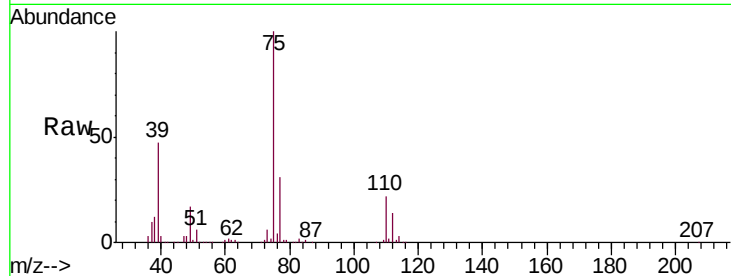




#39  
 cis-1,3-Dichloropropene  
 Concen: 104.682 ug/L  
 RT: 7.07 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

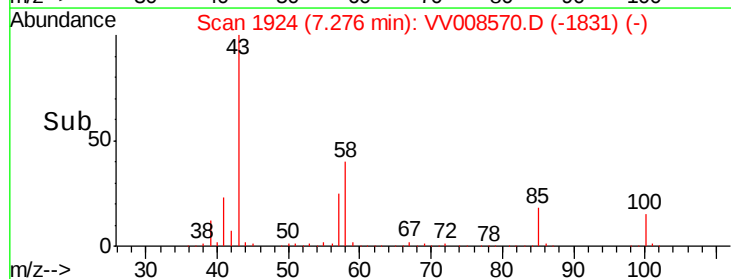
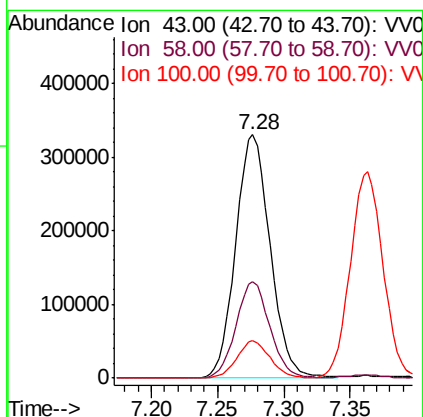
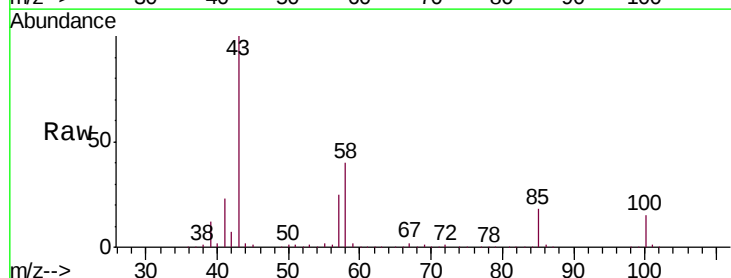
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10071

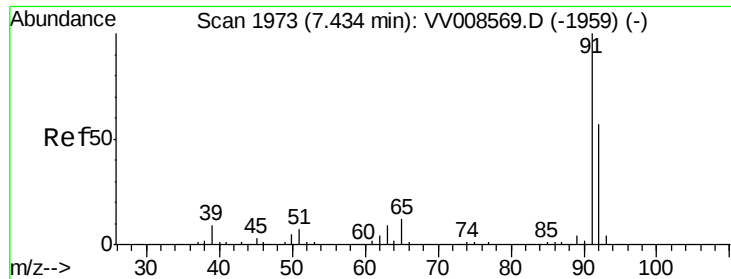
Tgt Ion: 75 Resp: 339700  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 22.1 41.1



#40  
 4-Methyl-2-pentanone  
 Concen: 190.277 ug/L  
 RT: 7.28 min Scan# 1924  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

Tgt Ion: 43 Resp: 596675  
 Ion Ratio Lower Upper  
 43 100  
 58 38.7 30.9 46.3  
 100 14.8 11.5 17.3





#42

Toluene

Concen: 98.763 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

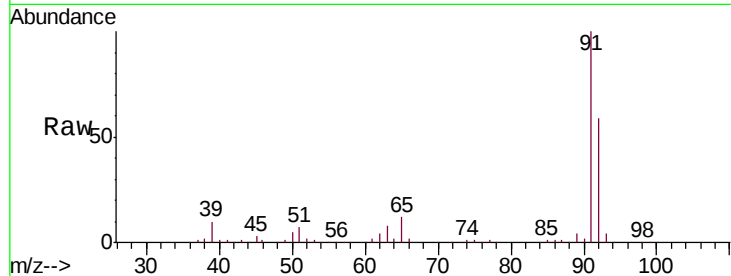
VSTD10071

Tgt Ion: 91 Resp: 824066

Ion Ratio Lower Upper

91 100

92 58.5 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VV008569.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008569.D (-1959) (-)

7.43

500000

400000

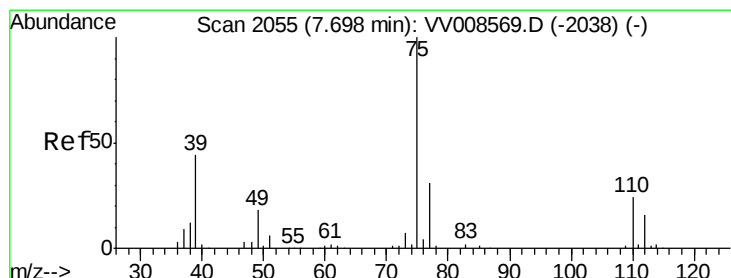
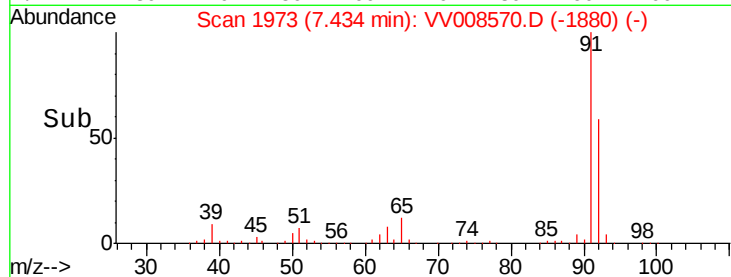
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 105.022 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008570.D

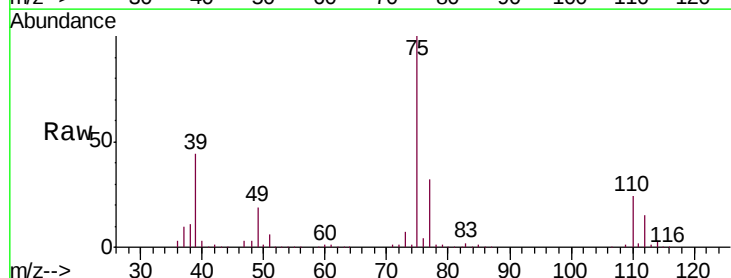
Acq: 15 Nov 2018 12:43

Tgt Ion: 75 Resp: 313654

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV008569.D (-2038) (-)

Ion 77.00 (76.70 to 77.70): VV008569.D (-2038) (-)

7.70

200000

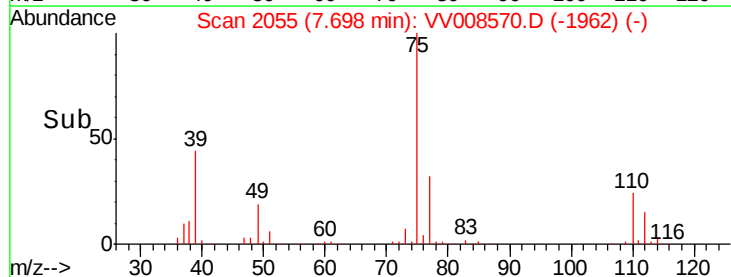
150000

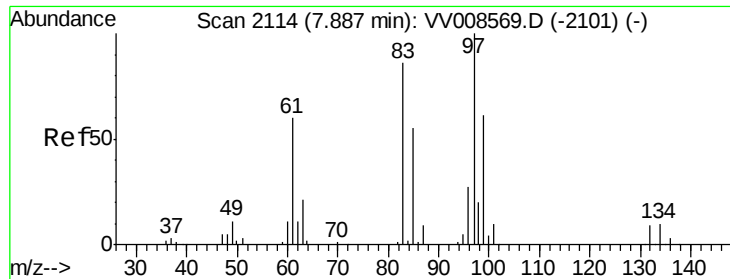
100000

50000

0

Time-->

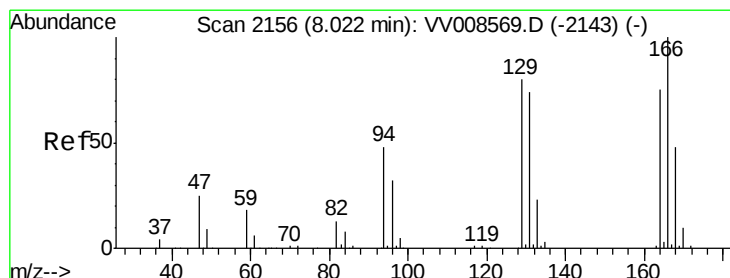
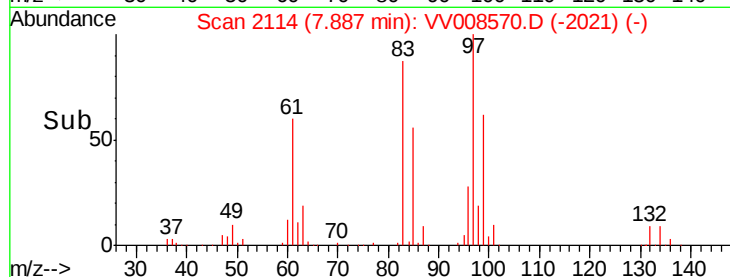
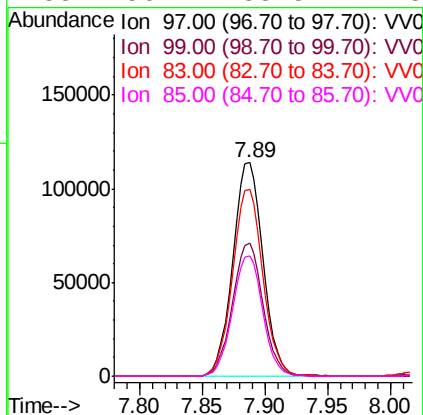
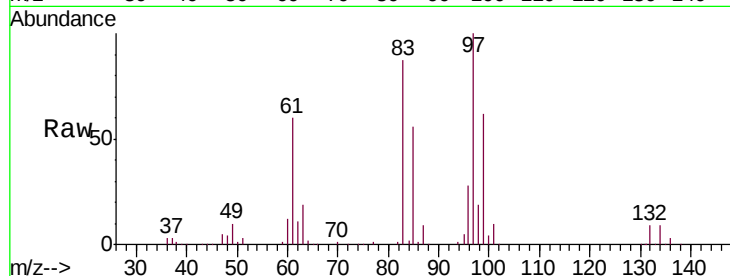




#45  
 1,1,2-Trichloroethane  
 Concen: 97.690 ug/L  
 RT: 7.89 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

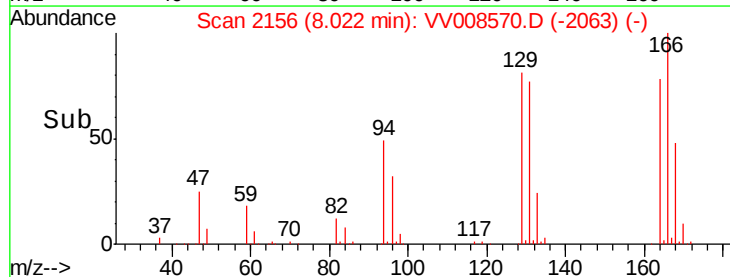
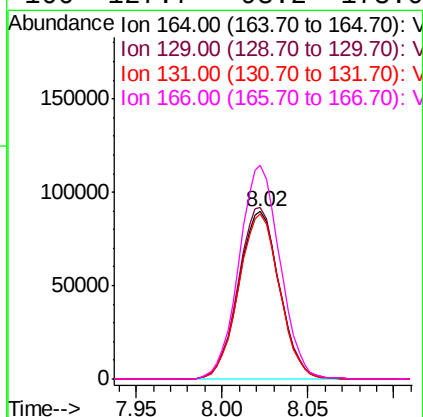
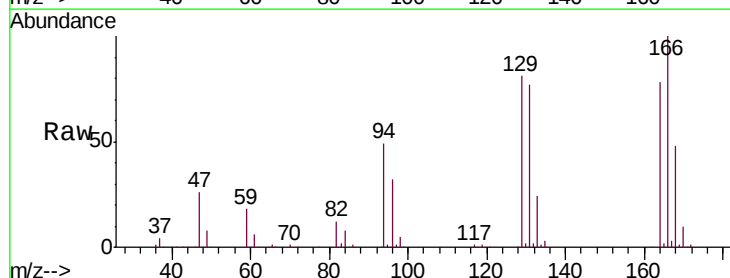
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10071

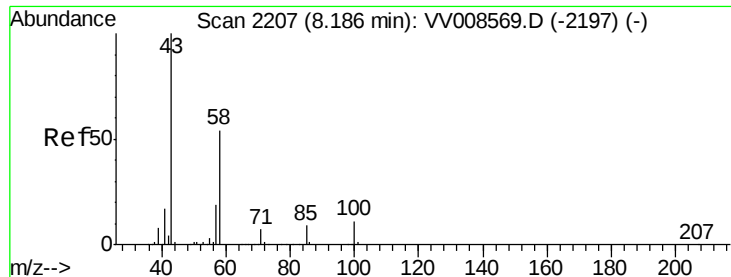
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 190548 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.1  | 42.9  | 79.7   |
| 83       | 87.4  | 60.4  | 112.2  |
| 85       | 56.2  | 38.5  | 71.5   |



#46  
 Tetrachloroethene  
 Concen: 101.166 ug/L  
 RT: 8.02 min Scan# 2156  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 148619 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 102.9 | 74.3  | 138.1  |
| 131      | 98.4  | 68.9  | 127.9  |
| 166      | 127.7 | 93.2  | 173.0  |

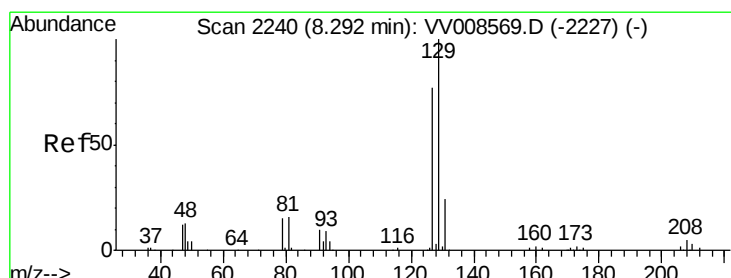
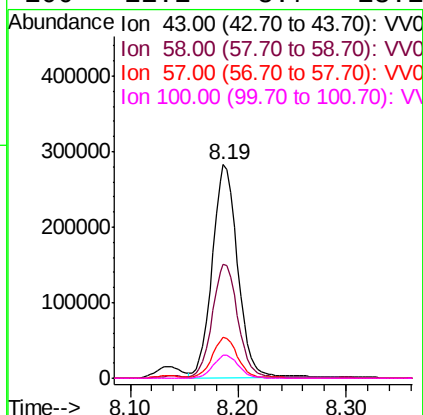
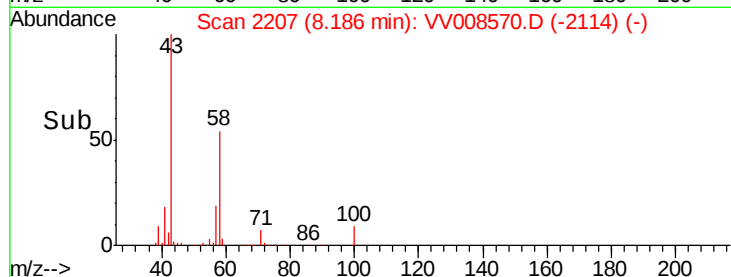
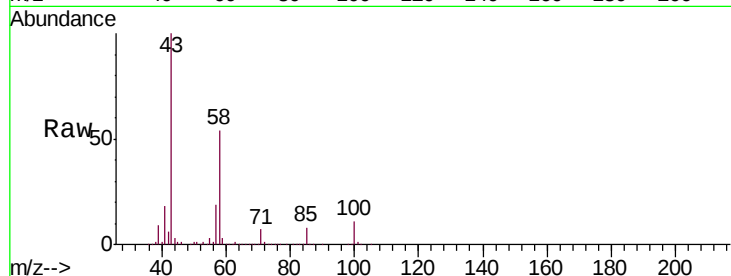




#48  
2-Hexanone  
Concen: 193.738 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

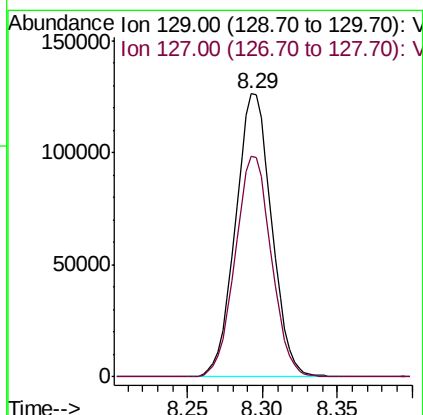
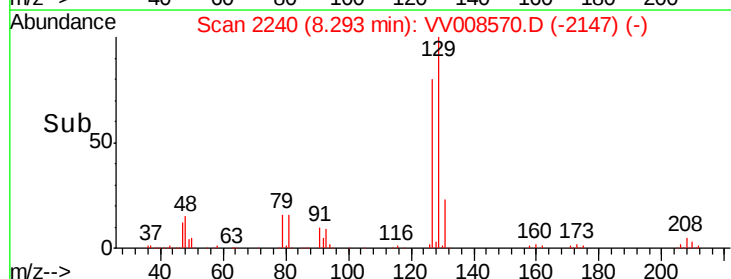
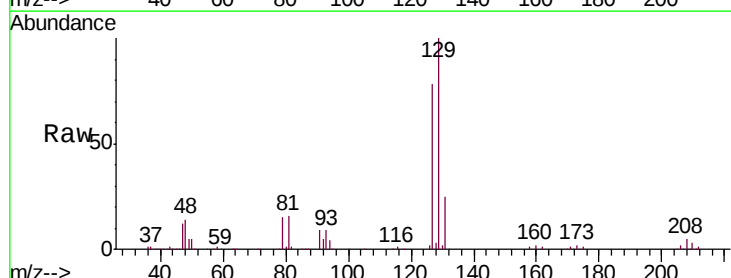
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

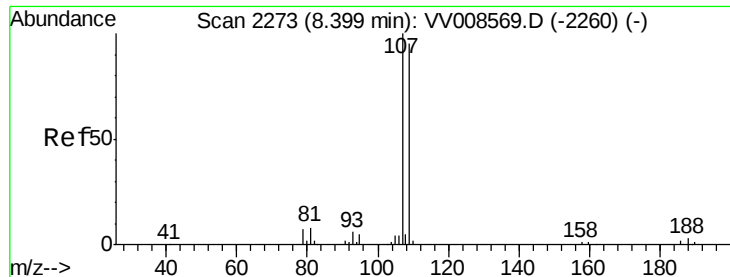
Tgt Ion: 43 Resp: 462052  
Ion Ratio Lower Upper  
43 100  
58 52.8 43.8 65.6  
57 18.8 14.6 22.0  
100 11.1 8.7 13.1



#49  
Dibromochloromethane  
Concen: 104.994 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Tgt Ion: 129 Resp: 212520  
Ion Ratio Lower Upper  
129 100  
127 77.8 54.1 100.5

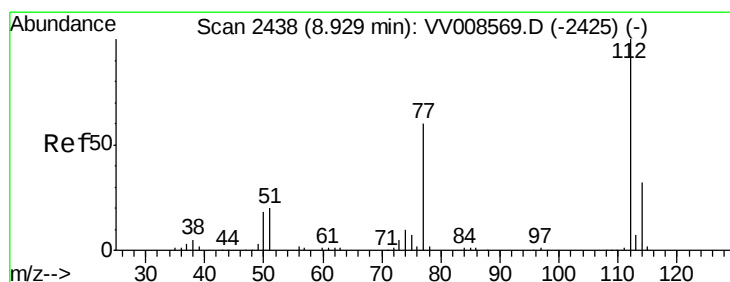
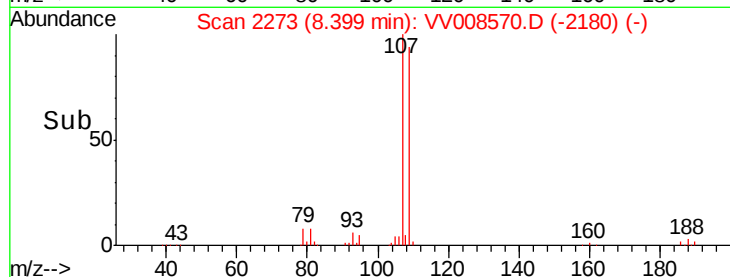
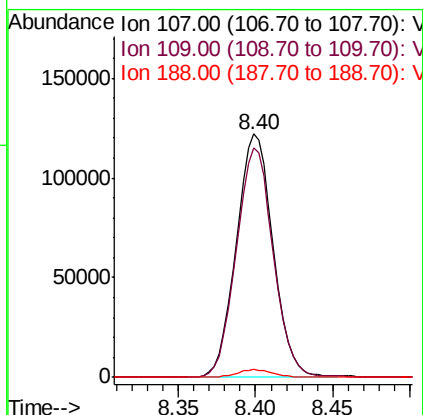
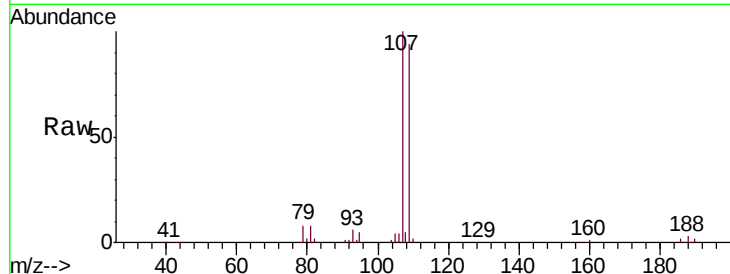




#50  
1,2-Dibromoethane  
Concen: 98.886 ug/L  
RT: 8.40 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

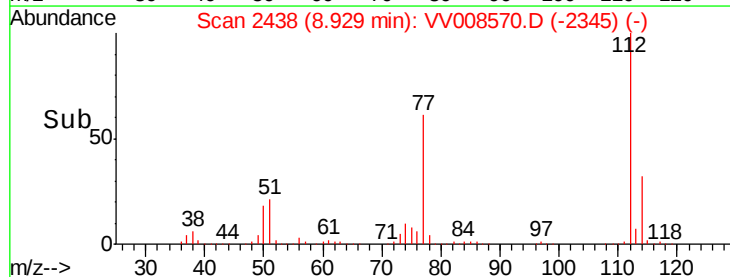
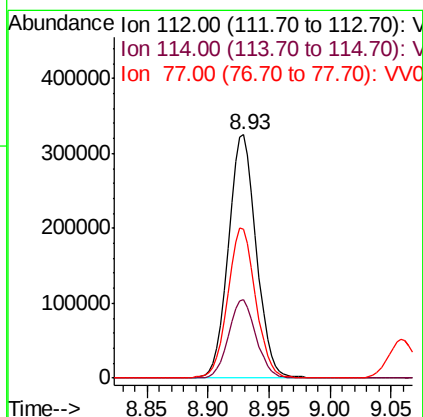
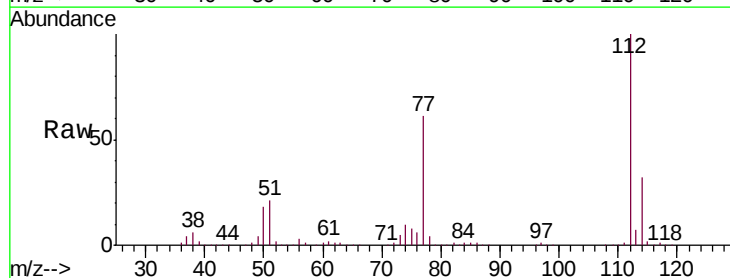
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD10071

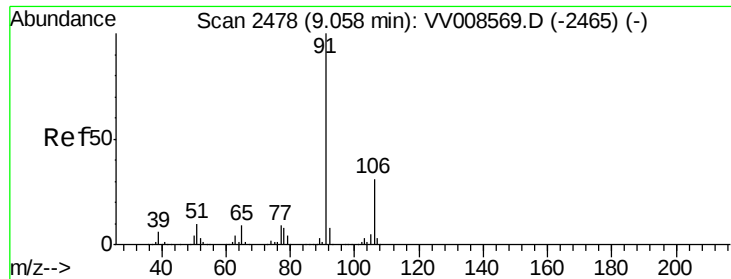
Tgt Ion:107 Resp: 201644  
Ion Ratio Lower Upper  
107 100  
109 94.1 66.2 123.0  
188 3.1 2.6 4.0



#51  
Chlorobenzene  
Concen: 99.047 ug/L  
RT: 8.93 min Scan# 2438  
Delta R.T. 0.00 min  
Lab File: VV008570.D  
Acq: 15 Nov 2018 12:43

Tgt Ion:112 Resp: 520260  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.4 41.6  
77 61.3 48.6 72.8





#52

Ethylbenzene

Concen: 100.089 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

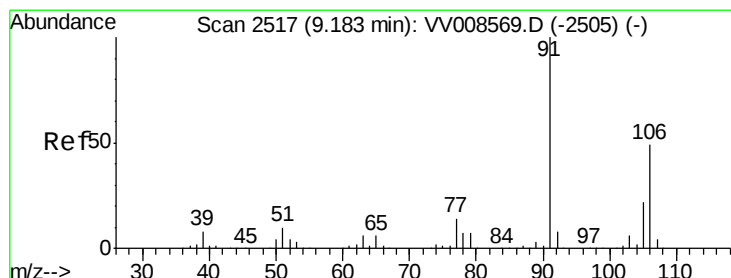
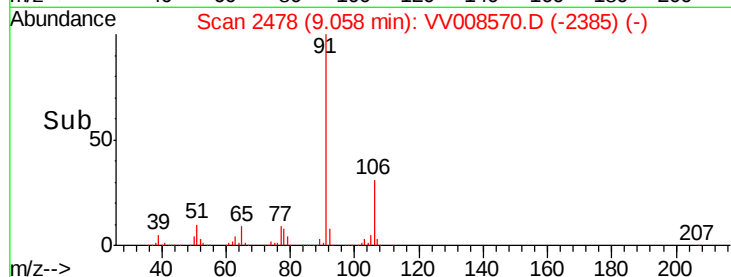
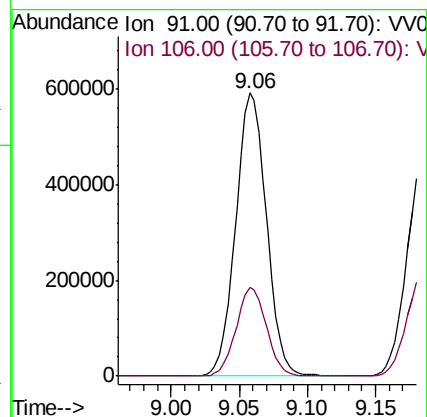
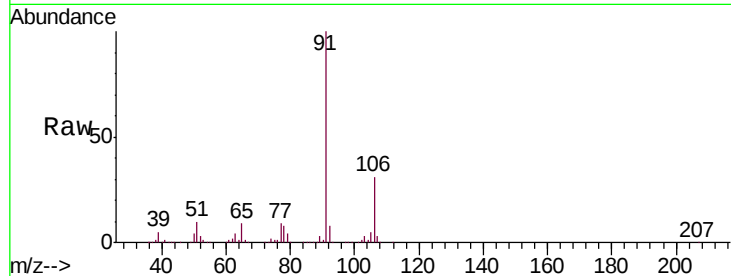
VSTD10071

Tgt Ion: 91 Resp: 926058

Ion Ratio Lower Upper

91 100

106 31.2 21.5 39.9



#53

m,p-Xylene

Concen: 101.168 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008570.D

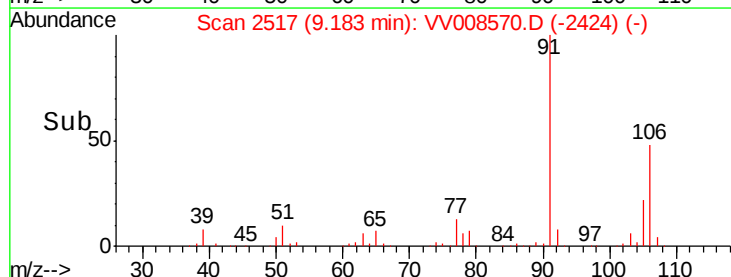
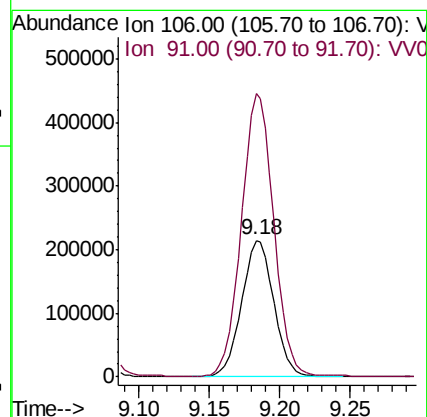
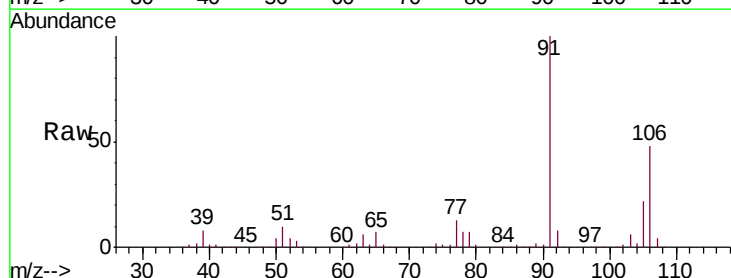
Acq: 15 Nov 2018 12:43

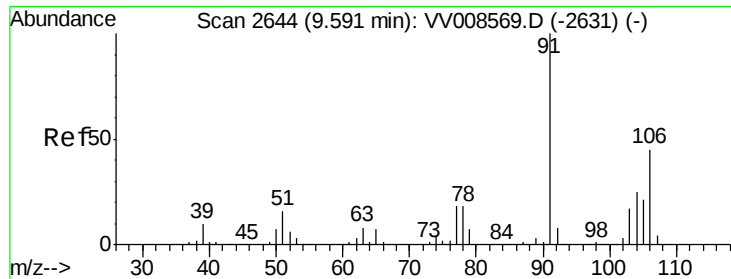
Tgt Ion: 106 Resp: 342486

Ion Ratio Lower Upper

106 100

91 207.1 142.5 264.7





#54

o-xylene

Concen: 98.612 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

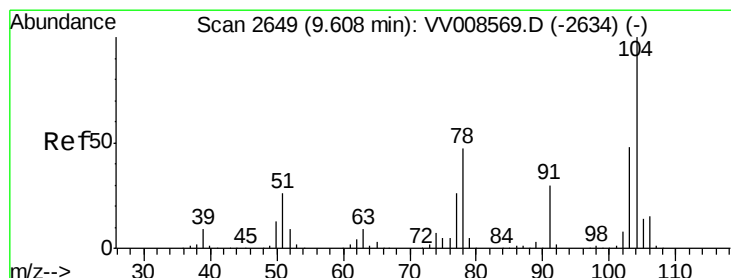
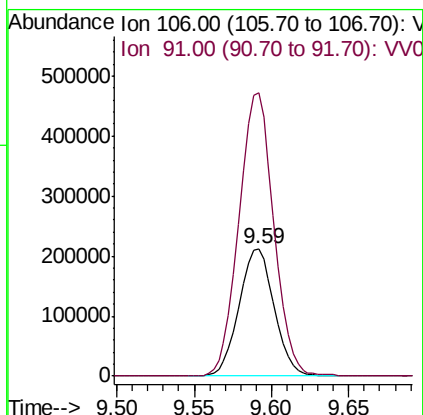
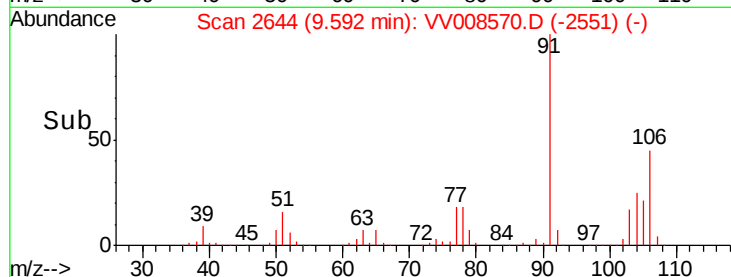
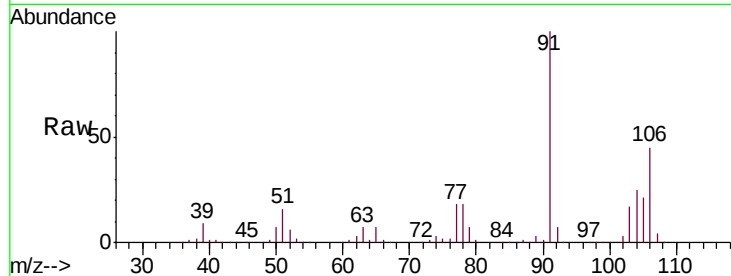
VSTD10071

Tgt Ion:106 Resp: 334794

Ion Ratio Lower Upper

106 100

91 222.3 154.6 287.2



#55

Styrene

Concen: 102.355 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008570.D

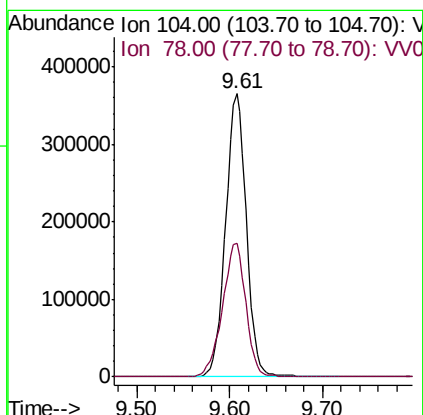
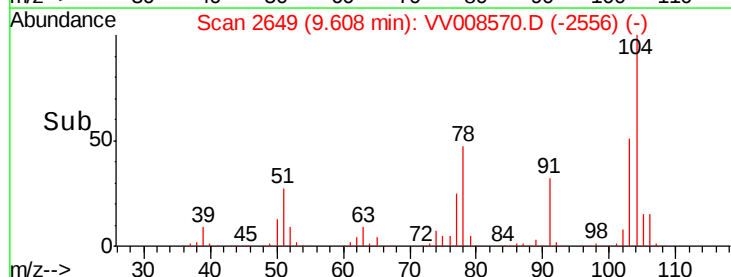
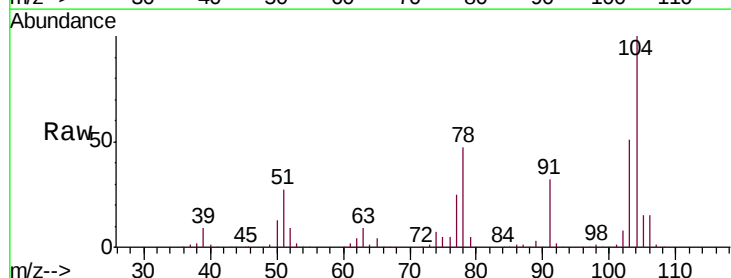
Acq: 15 Nov 2018 12:43

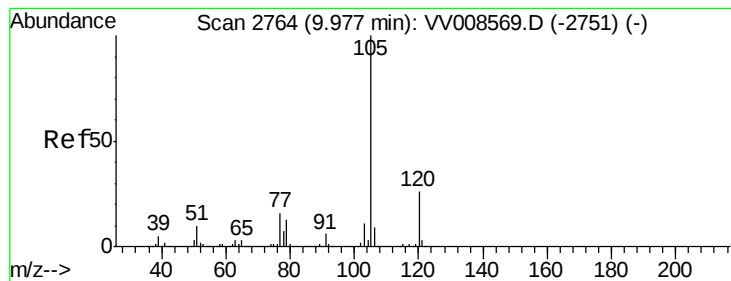
Tgt Ion:104 Resp: 566711

Ion Ratio Lower Upper

104 100

78 47.1 32.8 60.8





#56

Isopropylbenzene

Concen: 101.175 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

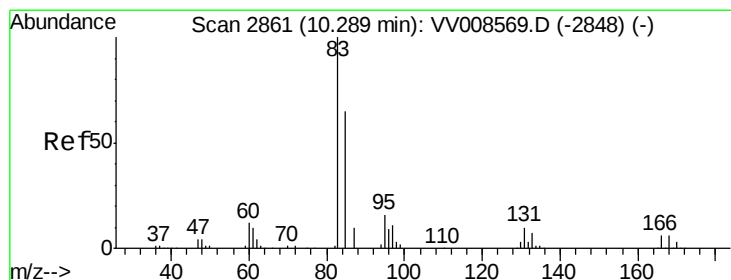
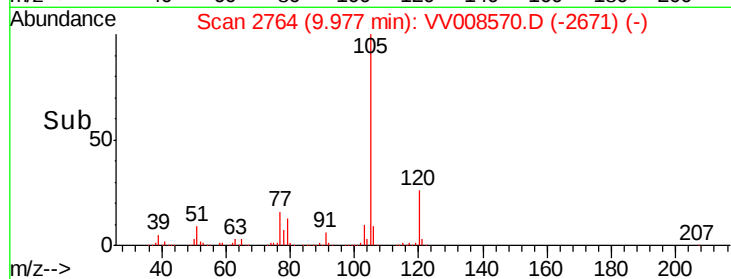
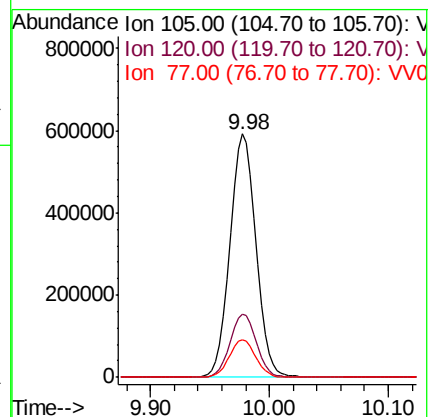
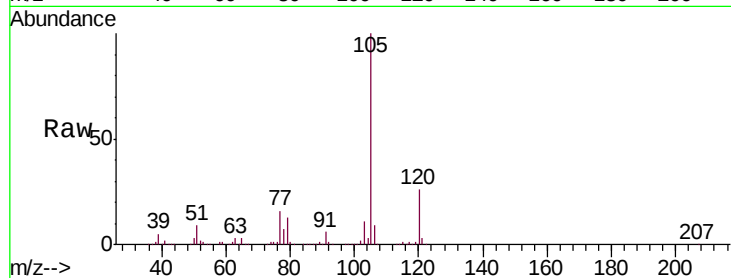
Tgt Ion: 105 Resp: 897566

Ion Ratio Lower Upper

105 100

120 26.5 20.8 31.2

77 15.7 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 99.709 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

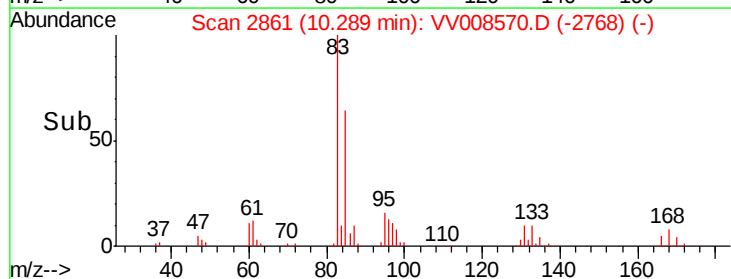
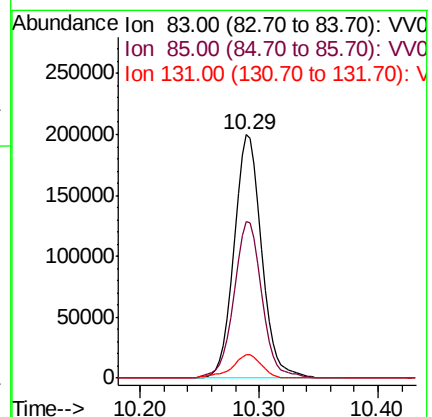
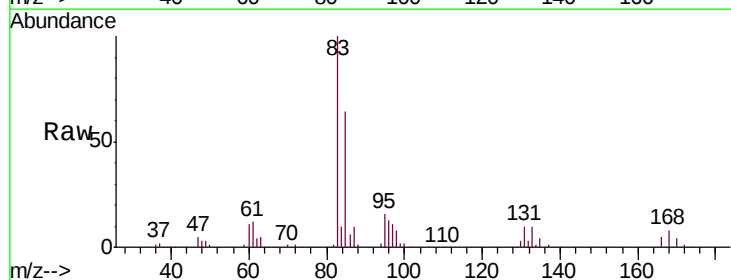
Tgt Ion: 83 Resp: 320198

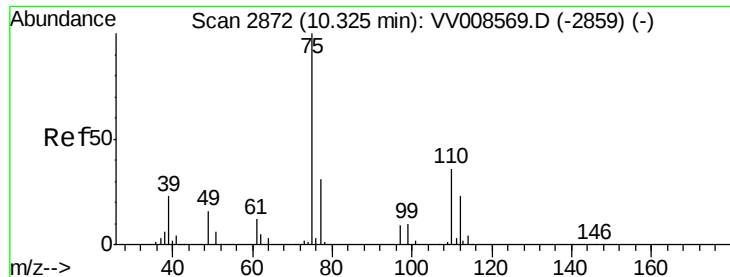
Ion Ratio Lower Upper

83 100

85 64.4 45.8 85.0

131 9.6 8.2 12.4





#59

1,2,3-Trichloropropane

Concen: 96.437 ug/L

RT: 10.32 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

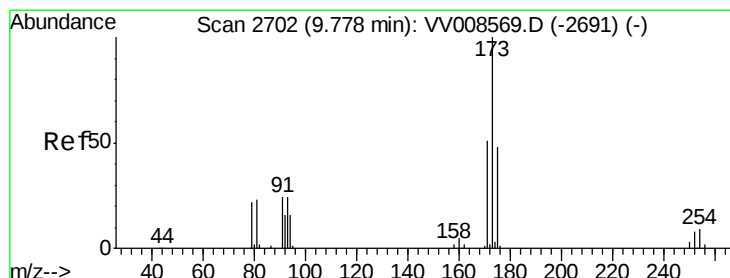
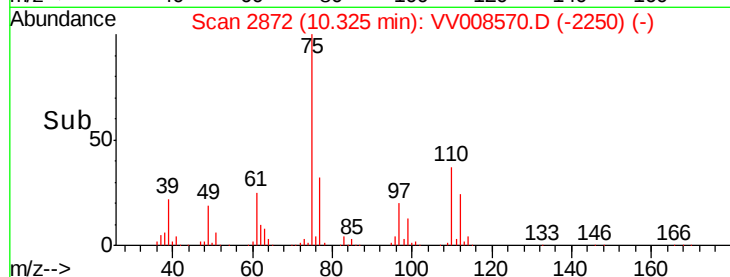
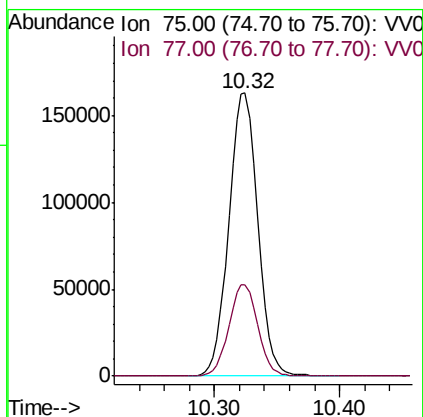
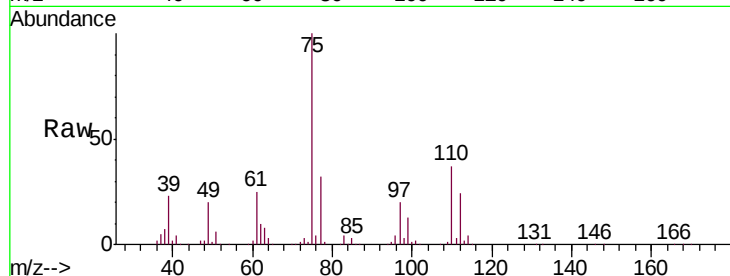
VSTD10071

Tgt Ion: 75 Resp: 260902

Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.2



#61

Bromoform

Concen: 98.403 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

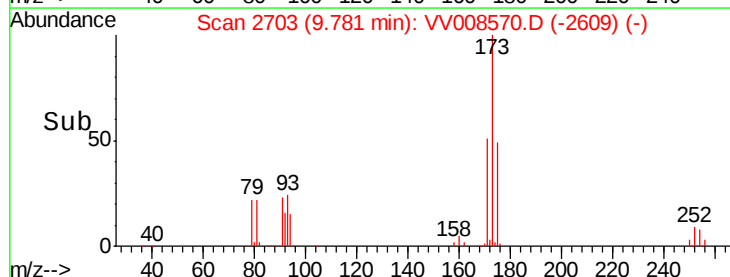
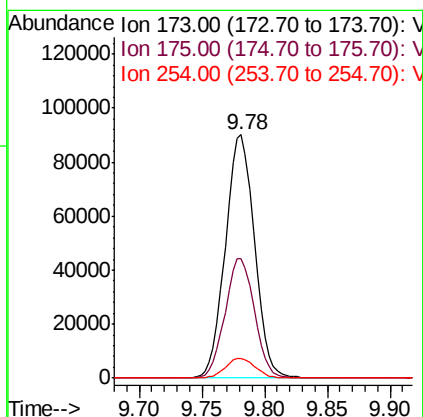
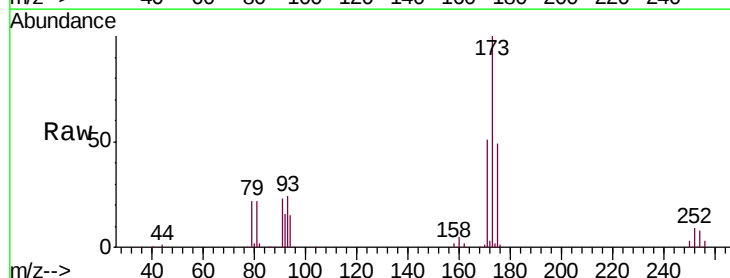
Tgt Ion: 173 Resp: 145434

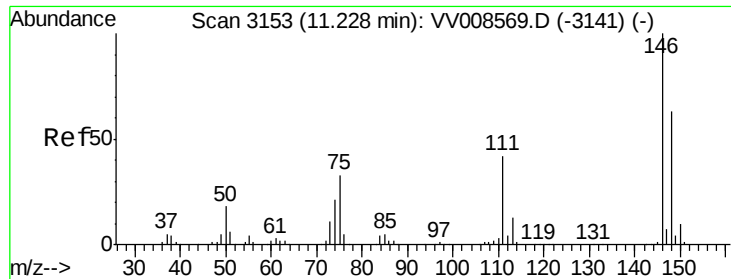
Ion Ratio Lower Upper

173 100

175 49.5 38.2 57.4

254 8.3 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 95.993 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

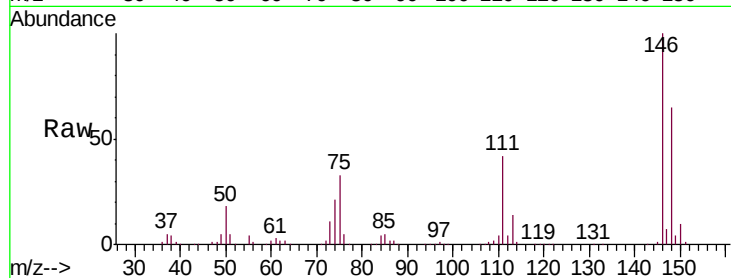
Tgt Ion:146 Resp: 390436

Ion Ratio Lower Upper

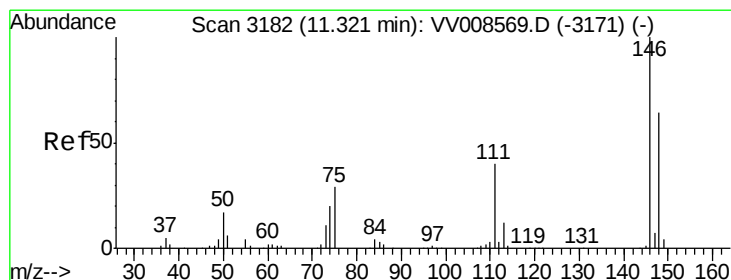
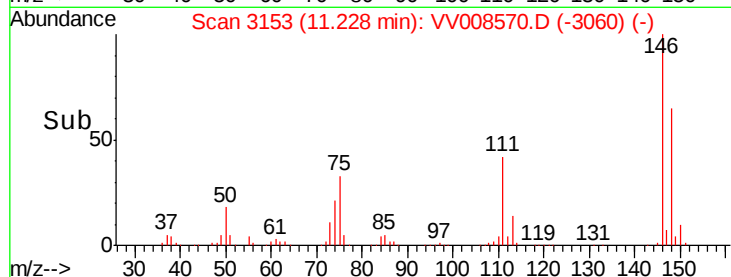
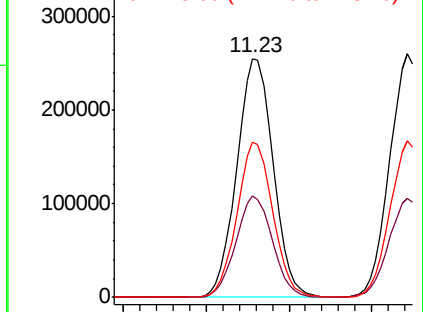
146 100

111 42.3 29.5 54.9

148 65.0 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 97.825 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

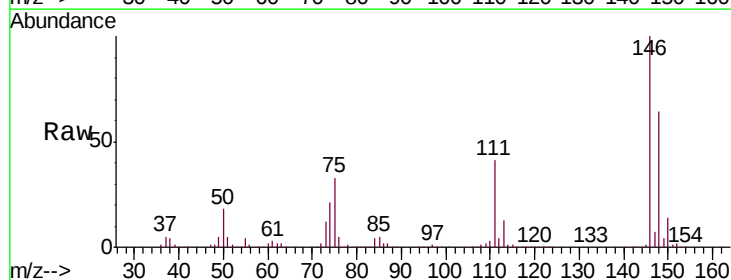
Tgt Ion:146 Resp: 394805

Ion Ratio Lower Upper

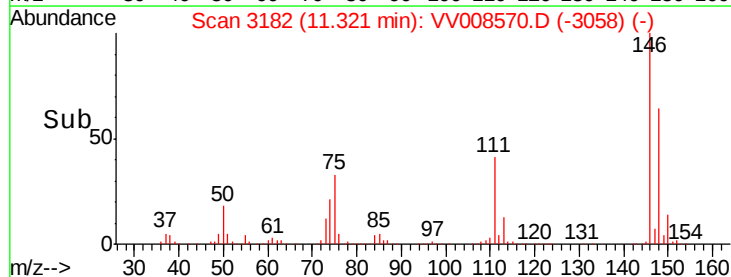
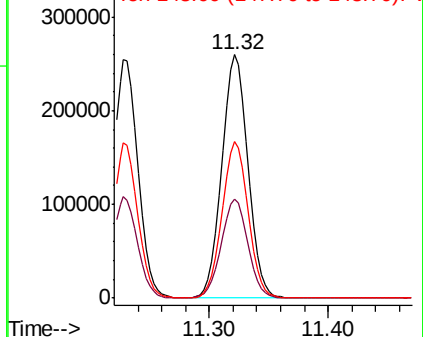
146 100

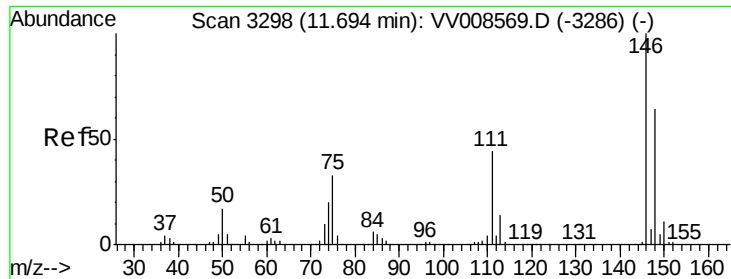
111 40.7 28.2 52.4

148 64.1 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 97.254 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

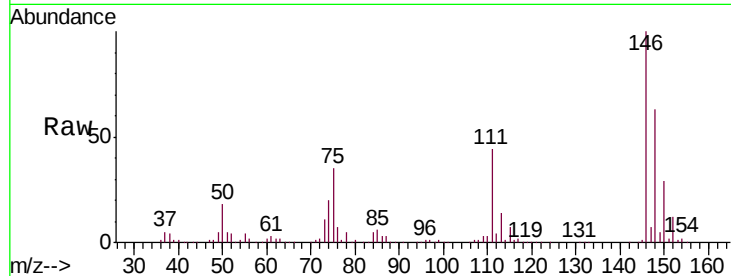
Tgt Ion: 146 Resp: 401515

Ion Ratio Lower Upper

146 100

111 44.4 35.8 53.6

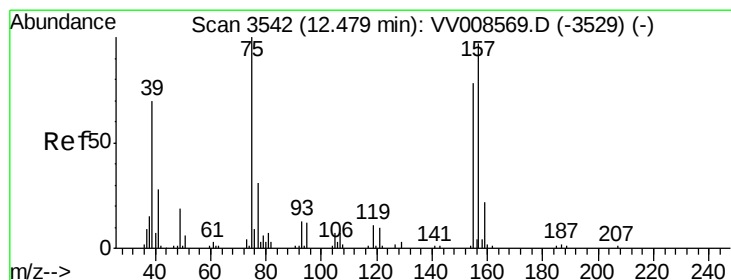
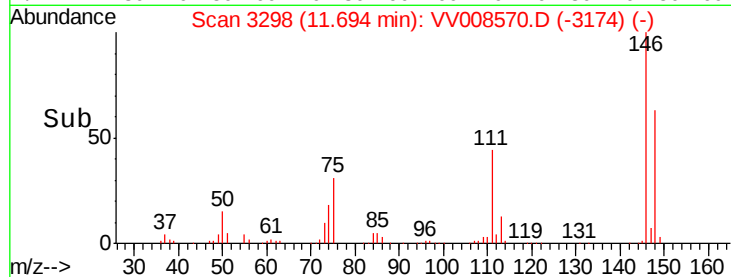
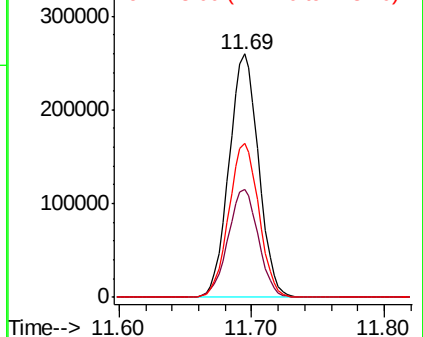
148 63.1 51.1 76.7



Abundance Ion 146.00 (145.70 to 146.70): 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: 96.039 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

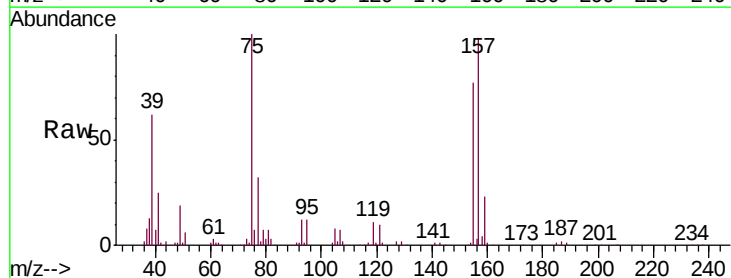
Tgt Ion: 75 Resp: 72599

Ion Ratio Lower Upper

75 100

155 76.7 62.7 94.1

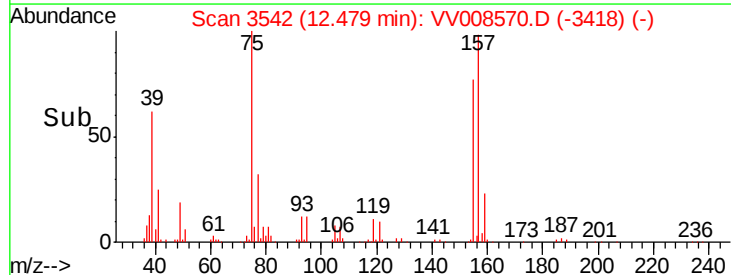
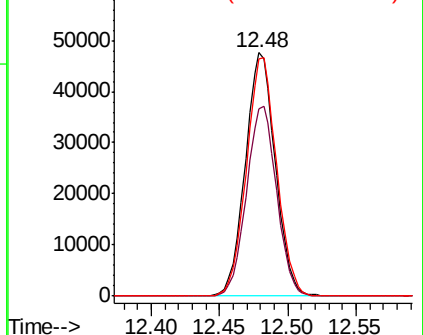
157 97.6 77.4 116.0

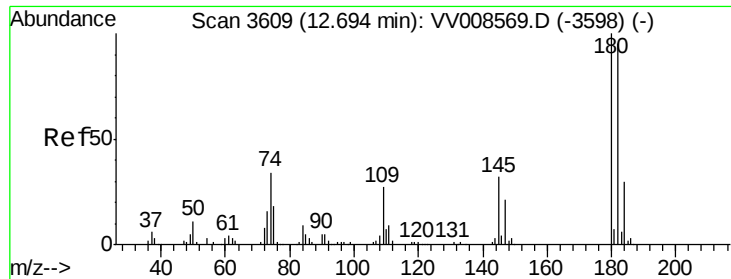


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

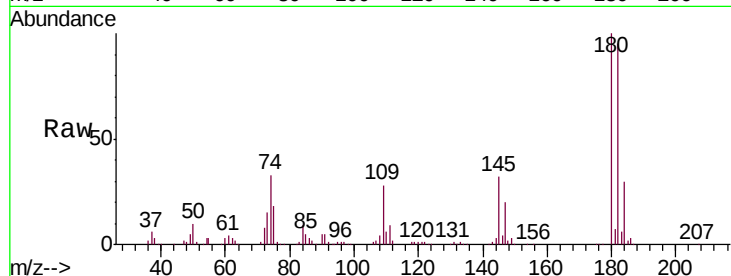




#67  
 1,3,5-Trichlorobenzene  
 Concen: 104.920 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD10071

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.3  | 75.7  | 113.5 |
| 184     | 29.6  | 24.2  | 36.4  |
| 145     | 31.9  | 25.6  | 38.4  |



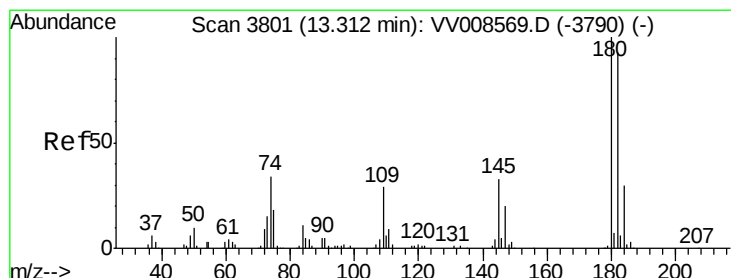
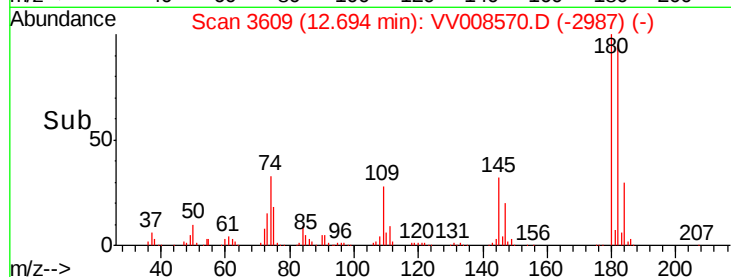
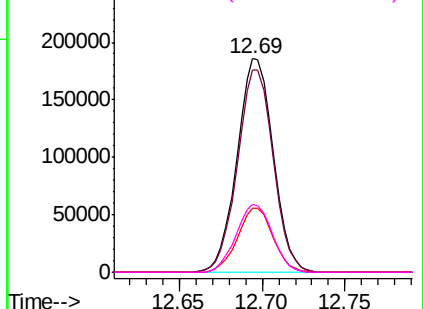
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

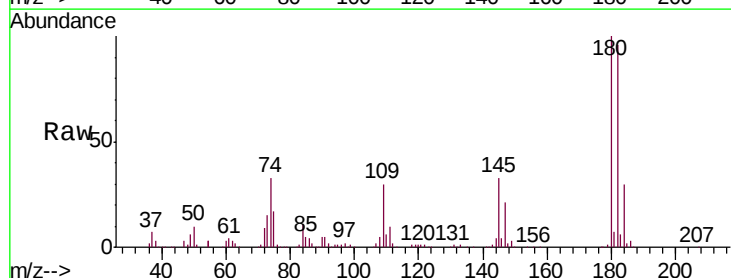
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 115.381 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. 0.00 min  
 Lab File: VV008570.D  
 Acq: 15 Nov 2018 12:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.8  | 75.3  | 112.9 |
| 145     | 33.0  | 26.0  | 39.0  |

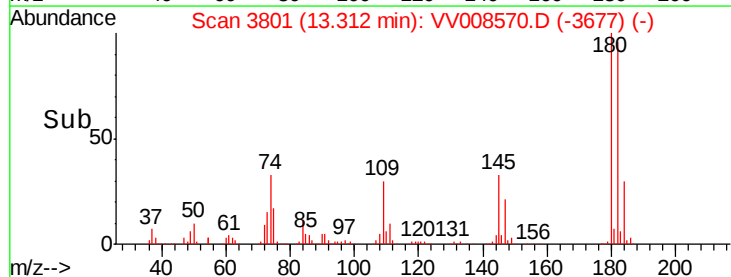
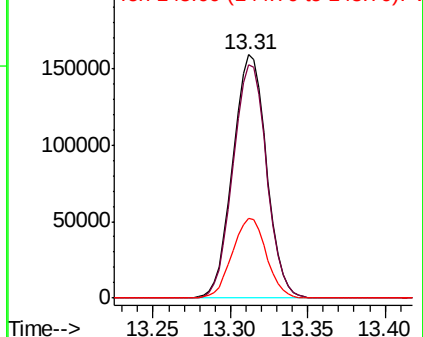


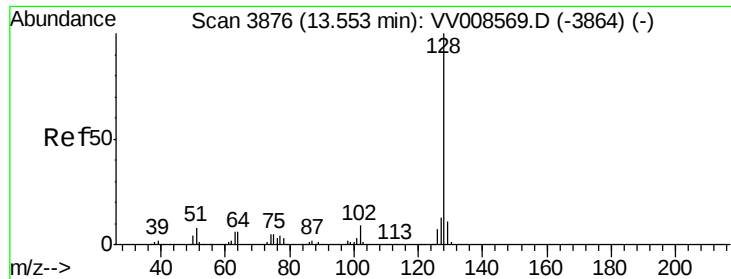
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 119.845 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD10071

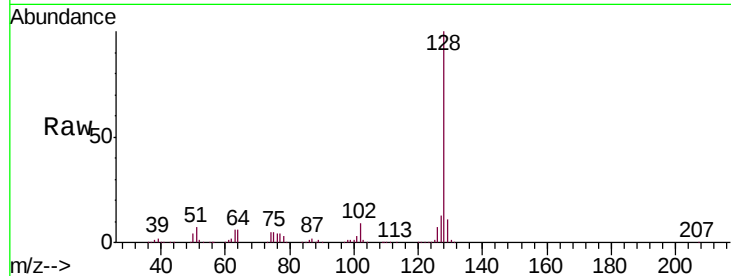
Tgt Ion:128 Resp: 754234

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

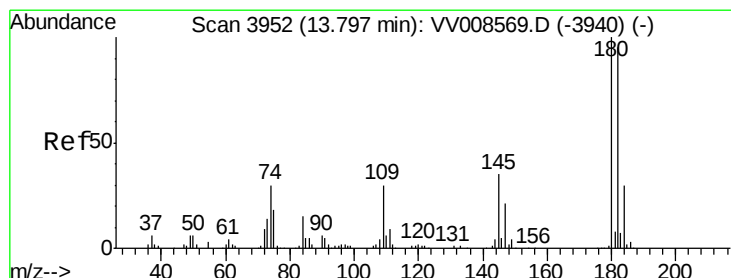
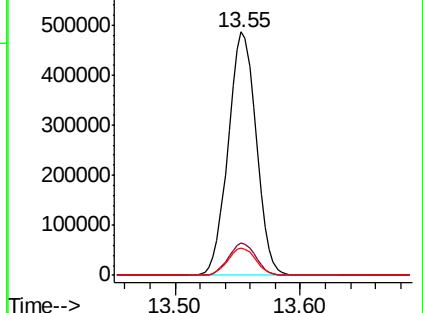
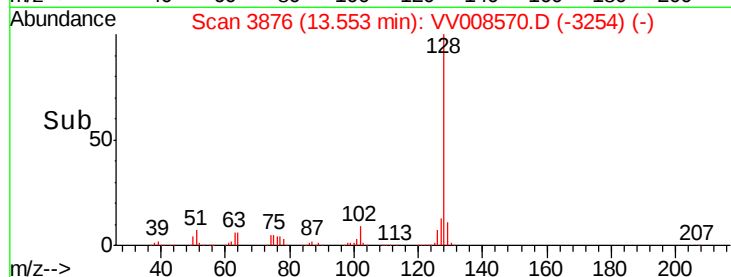
129 11.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 113.613 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008570.D

Acq: 15 Nov 2018 12:43

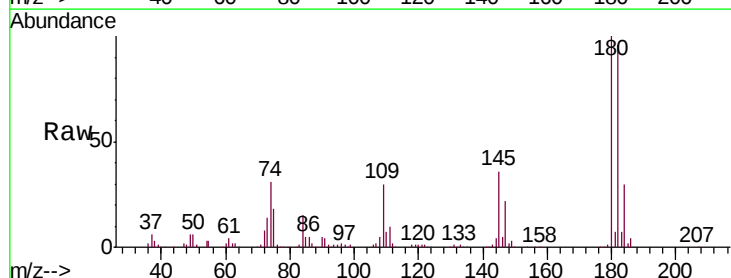
Tgt Ion:180 Resp: 239778

Ion Ratio Lower Upper

180 100

182 95.3 76.4 114.6

145 35.4 28.0 42.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

