

Data File : VV010058.D  
Acq On : 02 Apr 2019 13:12  
Operator : SY/MD  
Sample : VSTD00562  
Misc : 5.00G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00562

Quant Time: Apr 02 14:42:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 02 14:35:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 281662   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 266266   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 130703   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 19333 | 5.00 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.57  | 69  | 25613 | 7.52 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 51668 | 5.32 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 8374  | 7.98 | ug/L | 0.01 |
| 24) Chloroform-d               | 4.40  | 84  | 35305 | 5.21 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.09  | 65  | 19030 | 4.59 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 69662 | 5.08 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 20235 | 5.17 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 63409 | 4.72 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 8009  | 4.75 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.14  | 63  | 7328  | 9.45 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 18468 | 4.57 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 24029 | 4.61 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 25149 | 5.797 ug/L   | 100    |
| 3) Chloromethane               | 1.25 | 50  | 21450 | 5.659 ug/L   | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 22991 | 5.545 ug/L   | 94     |
| 6) Bromomethane                | 1.53 | 94  | 23498 | 6.360 ug/L   | 99     |
| 8) Chloroethane                | 1.59 | 64  | 17184 | 6.262 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 47035 | 5.512 ug/L   | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 26243 | 5.434 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 22000 | 5.284 ug/L   | 92     |
| 13) Acetone                    | 2.20 | 43  | 11160 | 8.985 ug/L   | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 45812 | 5.478 ug/L # | 95     |
| 15) Methyl Acetate             | 2.47 | 43  | 9251  | 5.132 ug/L   | 99     |
| 16) Methylene chloride         | 2.54 | 84  | 36339 | 7.384 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 43001 | 5.008 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 18592 | 5.367 ug/L   | 94     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 31100 | 5.103 ug/L   | 96     |
| 21) 2-Butanone                 | 4.04 | 43  | 11430 | 9.680 ug/L   | 89     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 20197 | 5.202 ug/L   | 89     |
| 23) Bromochloromethane         | 4.31 | 128 | 10010 | 5.217 ug/L   | 94     |
| 25) Chloroform                 | 4.43 | 83  | 35466 | 4.968 ug/L   | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 23917 | 5.275 ug/L   | 97     |
| 30) Cyclohexane                | 4.73 | 56  | 27537 | 5.661 ug/L # | 95     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 29663 | 5.453 ug/L   | 97     |
| 32) Carbon tetrachloride       | 4.88 | 117 | 26594 | 5.368 ug/L   | 98     |
| 34) Benzene                    | 5.15 | 78  | 69961 | 5.247 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 21762 | 5.706 ug/L   | 95     |
| 36) Methylcyclohexane          | 6.18 | 83  | 31385 | 5.350 ug/L   | 96     |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 17109 | 5.244 ug/L   | 99     |
| 41) Bromodichloromethane       | 6.55 | 83  | 21426 | 4.928 ug/L   | 100    |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 22690 | 4.546 ug/L   | 100    |
| 43) 4-Methyl-2-pentanone       | 7.28 | 43  | 24875 | 9.976 ug/L   | 93     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00562

Quant Time: Apr 02 14:42:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 02 14:35:17 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 79323    | 5.249  | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 7.70  | 75   | 19108    | 4.604  | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 15408    | 5.213  | ug/L  | 95       |
| 47) Tetrachloroethene          | 8.02  | 164  | 16890    | 5.217  | ug/L  | 93       |
| 49) 2-Hexanone                 | 8.19  | 43   | 16982    | 10.269 | ug/L  | 95       |
| 50) Dibromochloromethane       | 8.29  | 129  | 15310    | 4.479  | ug/L  | 92       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 14605    | 4.929  | ug/L  | 97       |
| 52) Chlorobenzene              | 8.93  | 112  | 53464    | 5.138  | ug/L  | 99       |
| 53) Ethylbenzene               | 9.06  | 91   | 84403    | 5.054  | ug/L  | 97       |
| 54) m,p-Xylene                 | 9.18  | 106  | 31915    | 4.767  | ug/L  | 98       |
| 55) o-xylene                   | 9.59  | 106  | 31332    | 4.947  | ug/L  | 98       |
| 56) Styrene                    | 9.61  | 104  | 50090    | 4.727  | ug/L  | 99       |
| 57) Isopropylbenzene           | 9.97  | 105  | 82480    | 4.888  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 19438    | 5.084  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 14221    | 5.069  | ug/L  | 94       |
| 62) Bromoform                  | 9.77  | 173  | 8881     | 4.864  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 42108    | 5.342  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 44043    | 5.313  | ug/L  | 90       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 40541    | 5.211  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 2424     | 4.833  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 29501    | 5.074  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 20532    | 4.842  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 27277    | 4.092  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 18992    | 4.780  | ug/L  | 96       |

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

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Operator : SY/MD

Sample : VSTD00562

Misc : 5.00G/10mL/MSV0A V/SOIL

```
ALS Vial      : 1      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00562

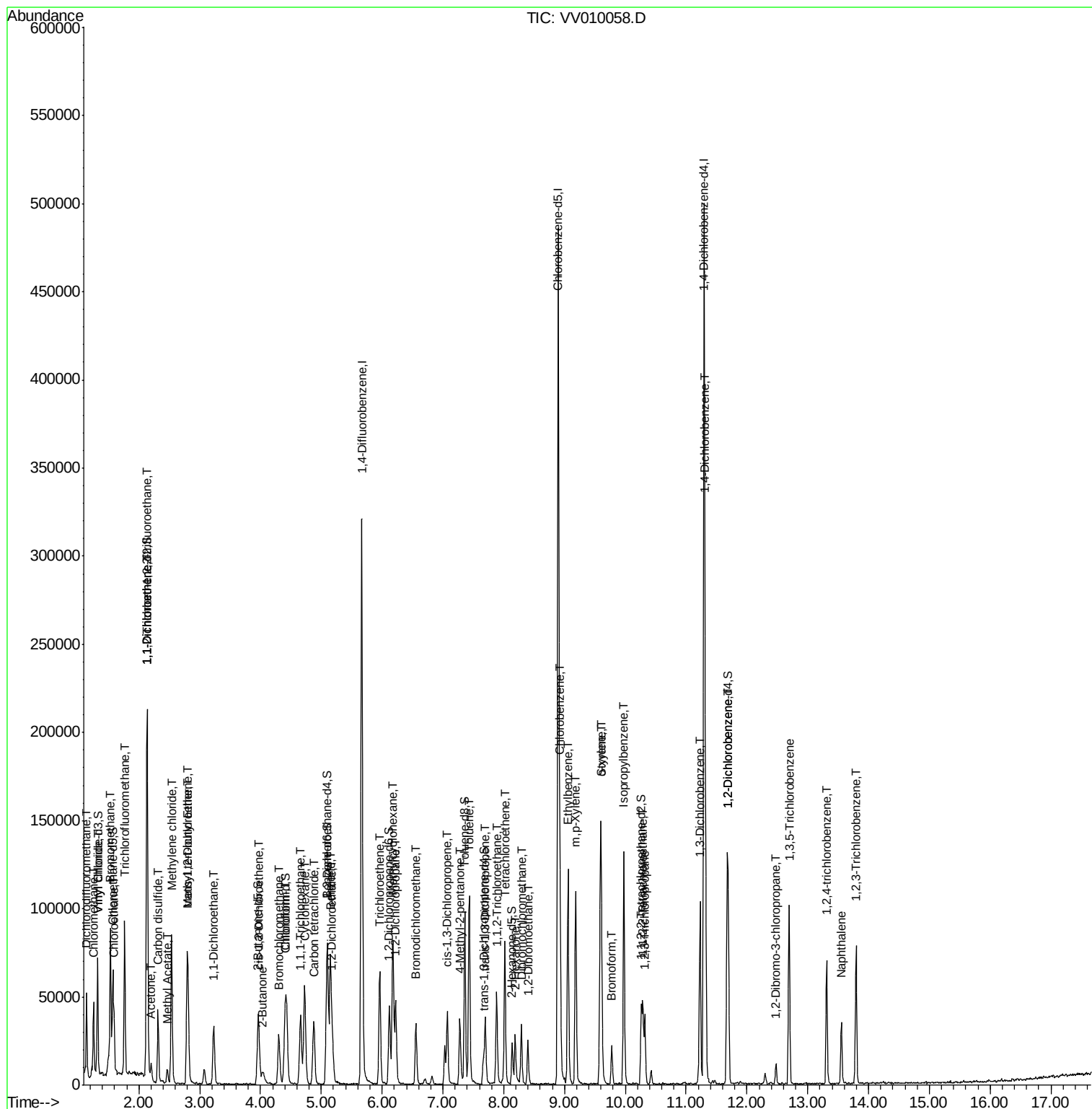
Quant Time: Apr 02 14:42:02 2019

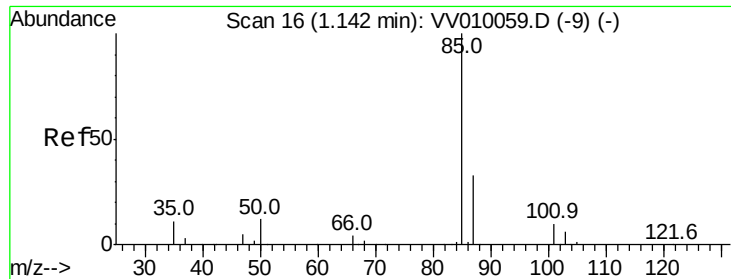
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\S0M2VLM040219S.M

Quant Title : VOC Analysis

QLast Update : Tue Apr 02 14:35:17 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.797 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

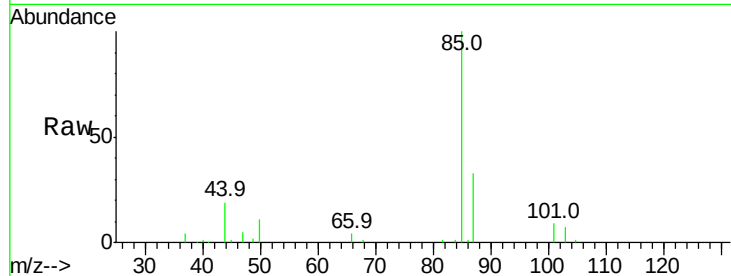
VSTD00562

Tgt Ion: 85 Resp: 25149

Ion Ratio Lower Upper

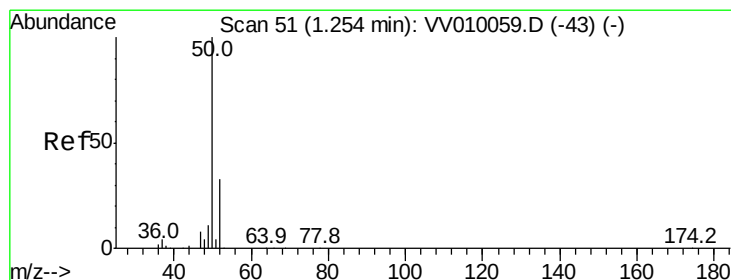
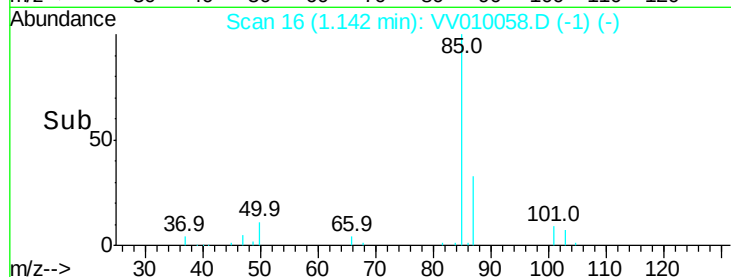
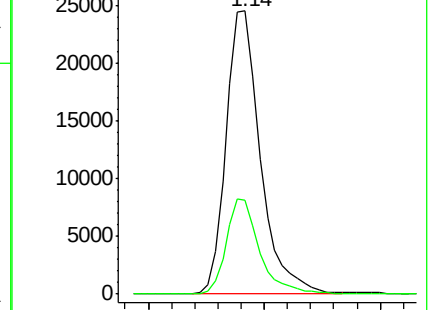
85 100

87 32.4 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV010059.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV010059.D (-9) (-)



#3

Chloromethane

Concen: 5.659 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010058.D

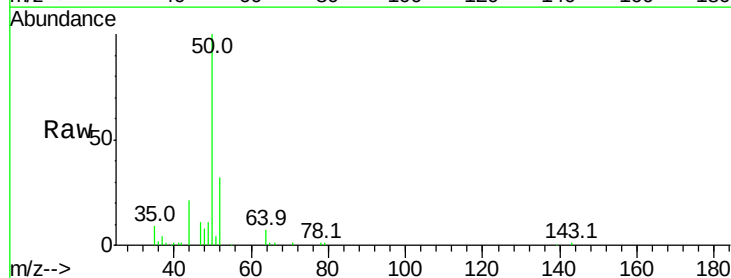
Acq: 02 Apr 2019 13:12

Tgt Ion: 50 Resp: 21450

Ion Ratio Lower Upper

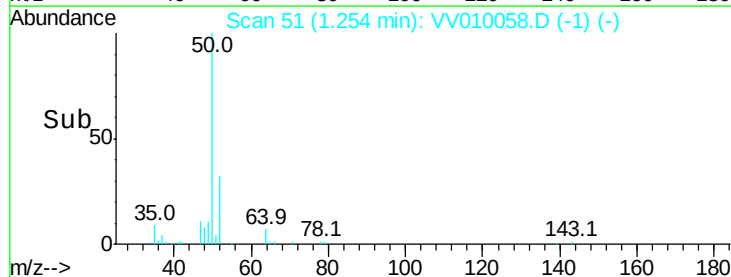
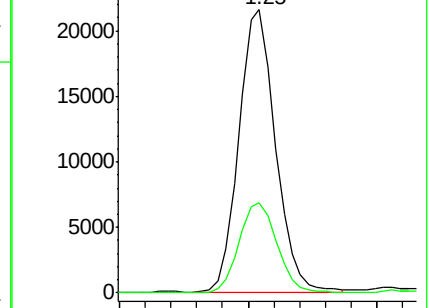
50 100

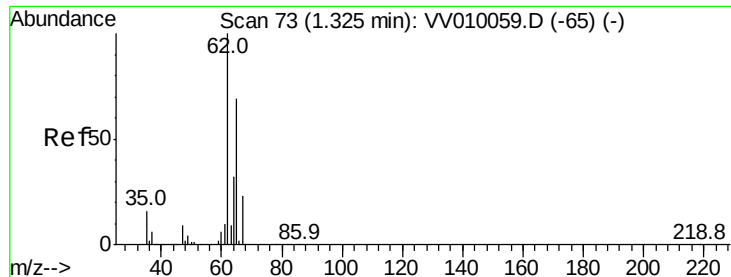
52 32.0 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV010059.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV010059.D (-43) (-)





#5

Vinyl chloride

Concen: 5.545 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

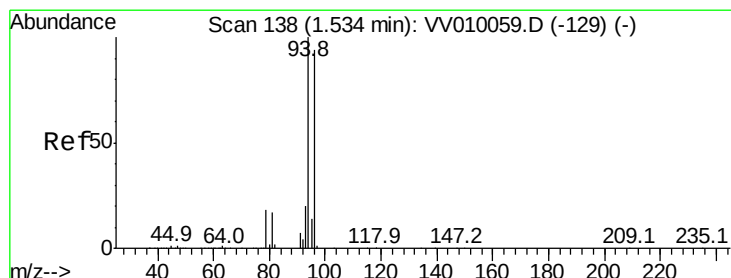
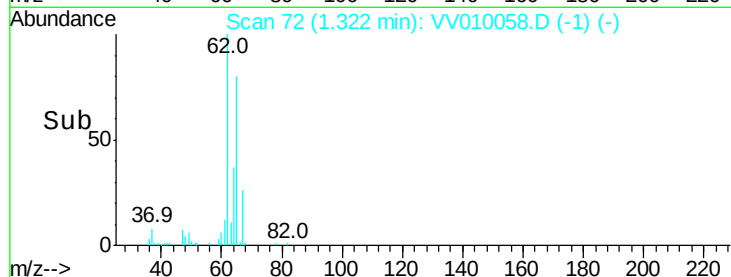
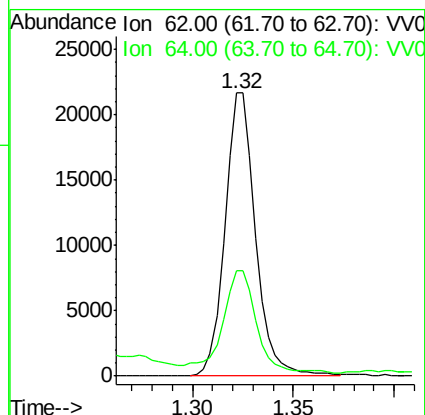
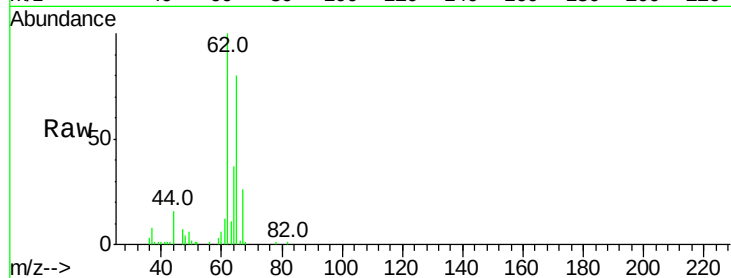
VSTD00562

Tgt Ion: 62 Resp: 22991

Ion Ratio Lower Upper

62 100

64 37.1 23.4 43.4



#6

Bromomethane

Concen: 6.360 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV010058.D

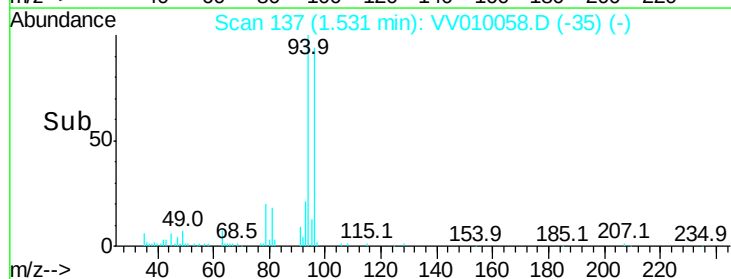
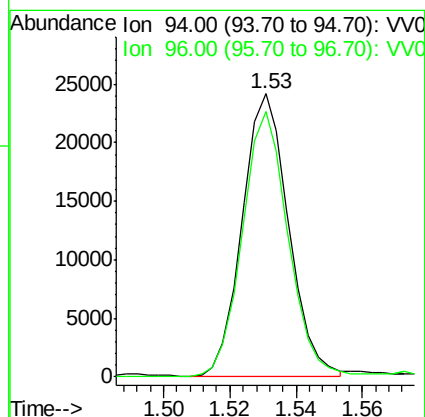
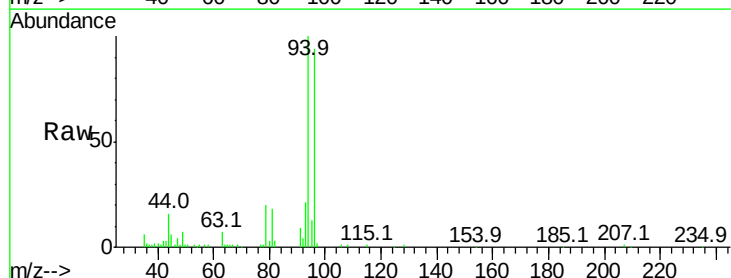
Acq: 02 Apr 2019 13:12

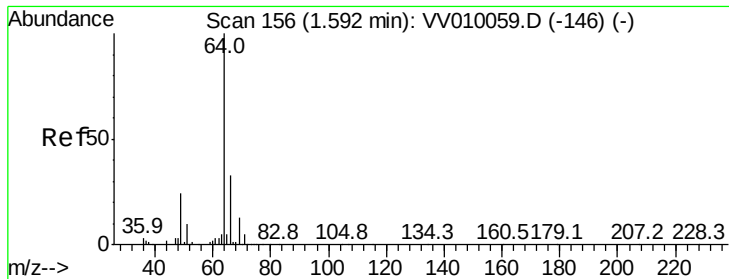
Tgt Ion: 94 Resp: 23498

Ion Ratio Lower Upper

94 100

96 92.8 9.4 177.8





#8

Chloroethane

Concen: 6.262 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

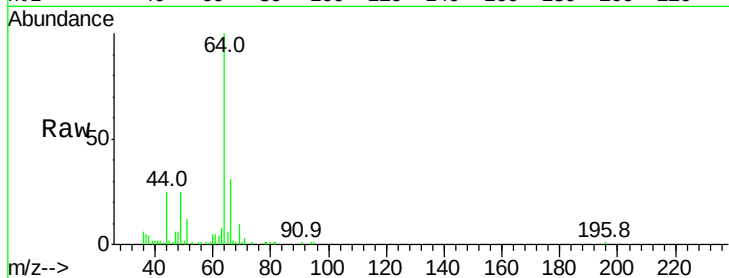
VSTD00562

Tgt Ion: 64 Resp: 17184

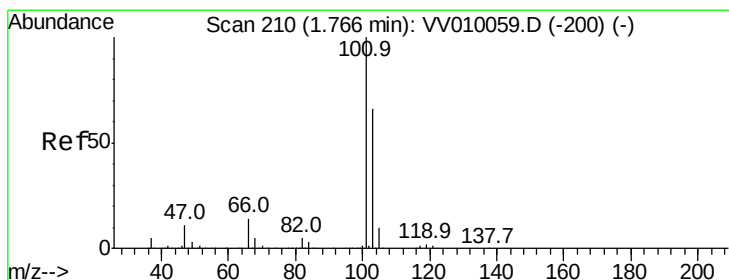
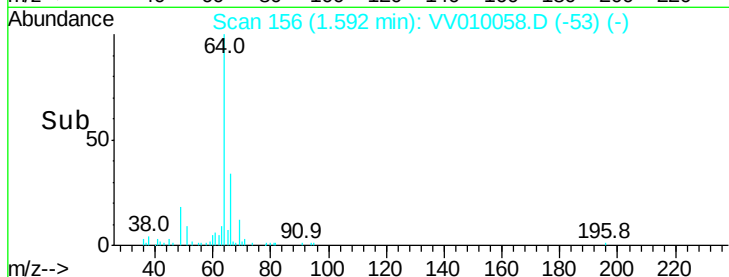
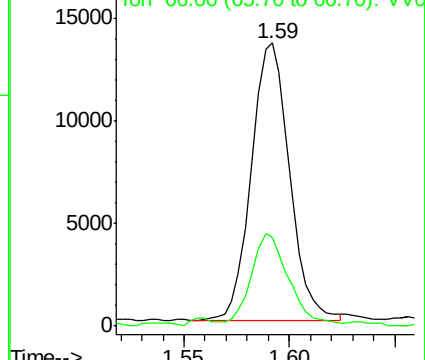
Ion Ratio Lower Upper

64 100

66 31.2 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV010059.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 5.512 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV010058.D

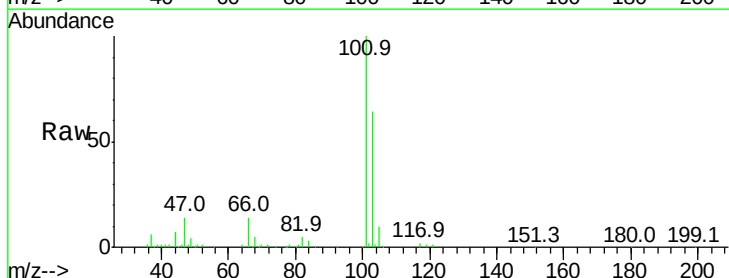
Acq: 02 Apr 2019 13:12

Tgt Ion: 101 Resp: 47035

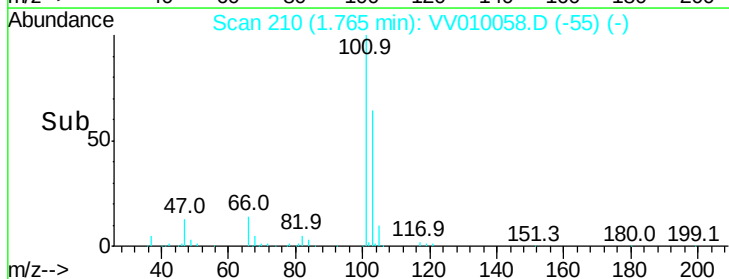
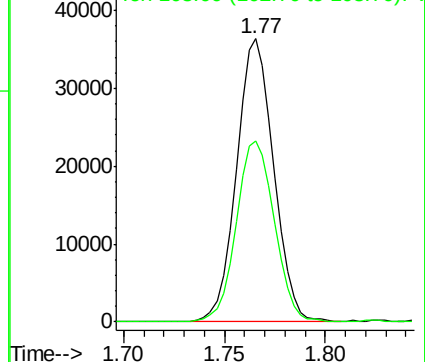
Ion Ratio Lower Upper

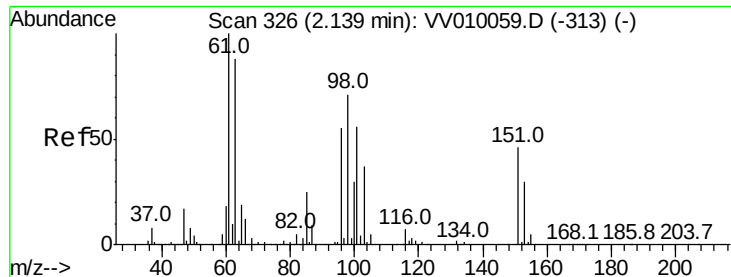
101 100

103 65.4 46.1 85.5



Abundance Ion 101.00 (100.70 to 101.70): VV010059.D (-200) (-)





#11

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

Concen: 5.434 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00562

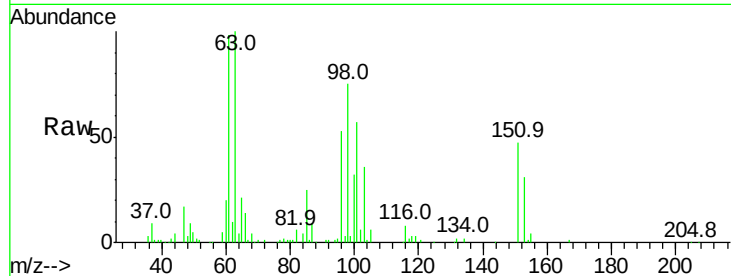
Tgt Ion:101 Resp: 26243

Ion Ratio Lower Upper

101 100

85 45.9 37.3 55.9

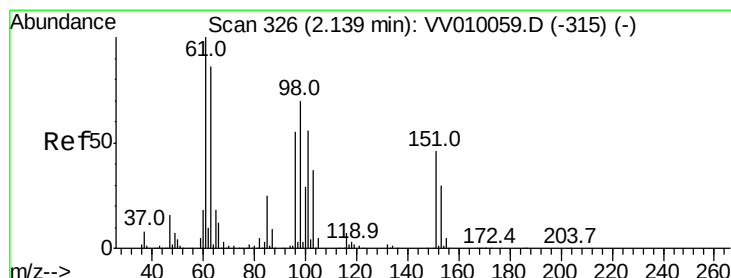
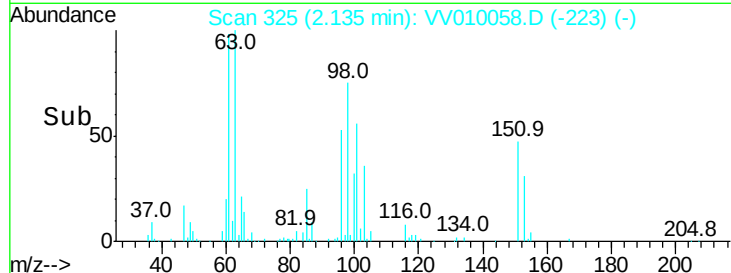
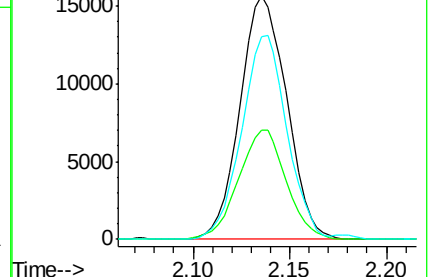
151 81.6 65.4 98.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.284 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

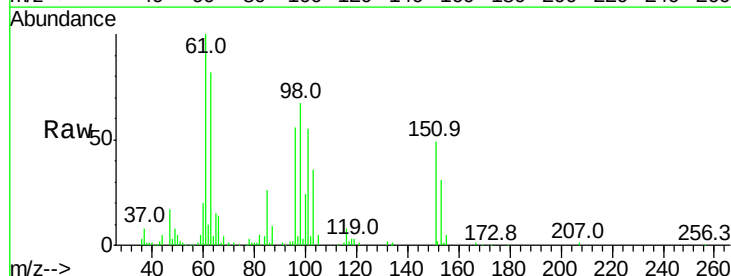
Tgt Ion: 96 Resp: 22000

Ion Ratio Lower Upper

96 100

61 177.2 127.8 237.4

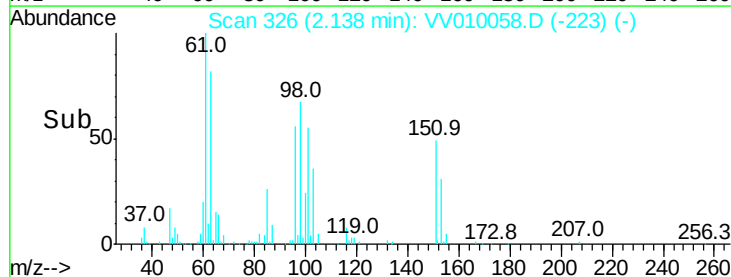
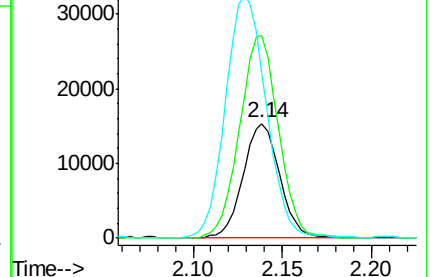
63 144.7 112.6 209.2

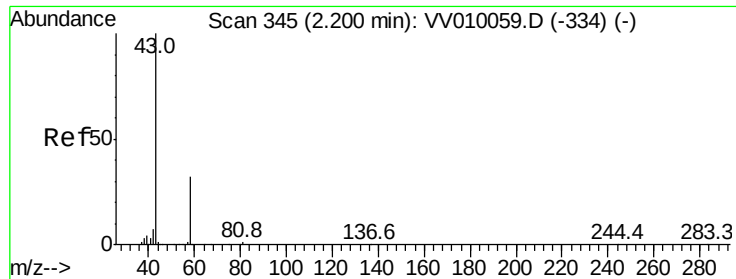


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 8.985 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

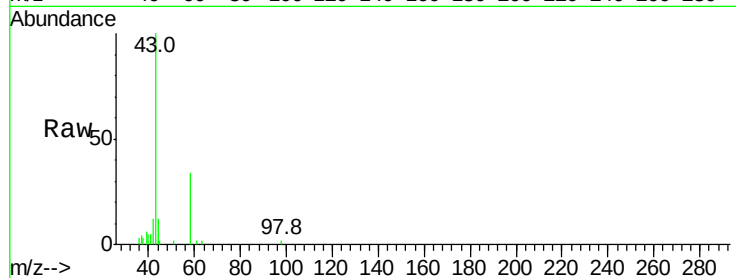
VSTD00562

Tgt Ion: 43 Resp: 11160

Ion Ratio Lower Upper

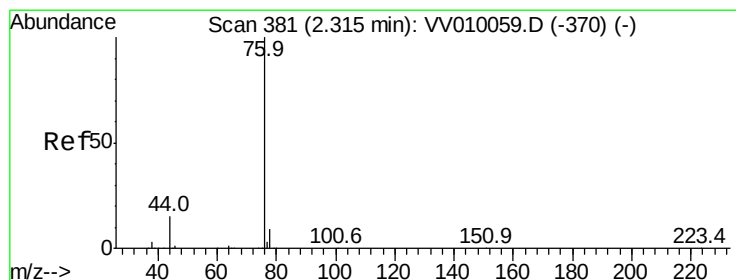
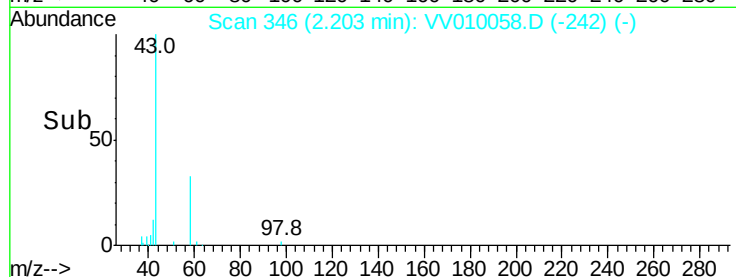
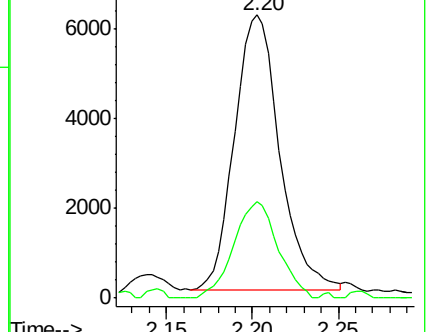
43 100

58 34.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010059.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010059.D (-334) (-)



#14

Carbon disulfide

Concen: 5.478 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV010058.D

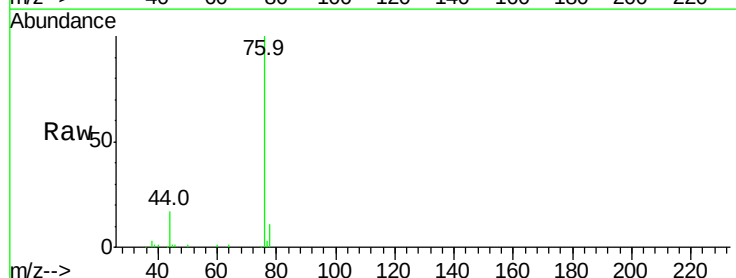
Acq: 02 Apr 2019 13:12

Tgt Ion: 76 Resp: 45812

Ion Ratio Lower Upper

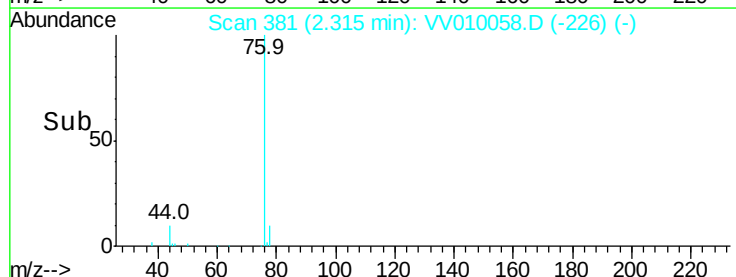
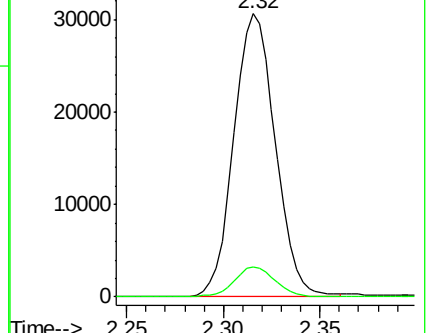
76 100

78 10.7 7.1 10.7#

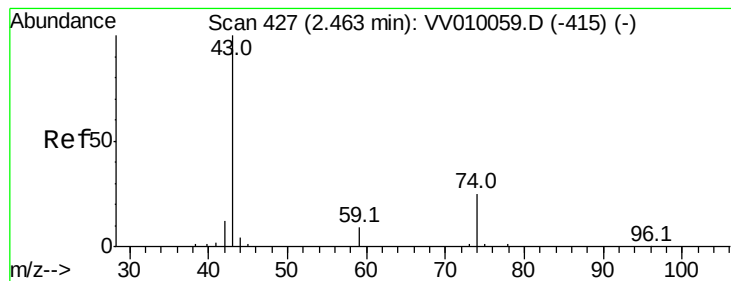


Abundance Ion 76.00 (75.70 to 76.70): VV010059.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV010059.D (-370) (-)







#15

Methyl Acetate

Concen: 5.132 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

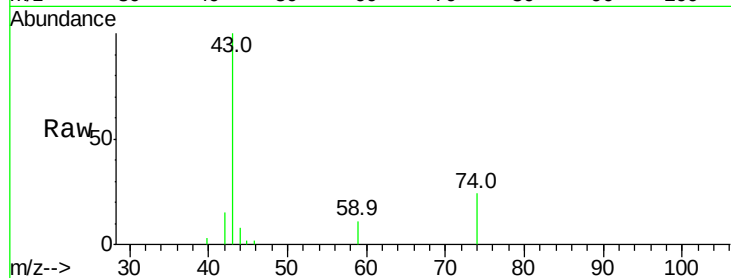
VSTD00562

Tgt Ion: 43 Resp: 9251

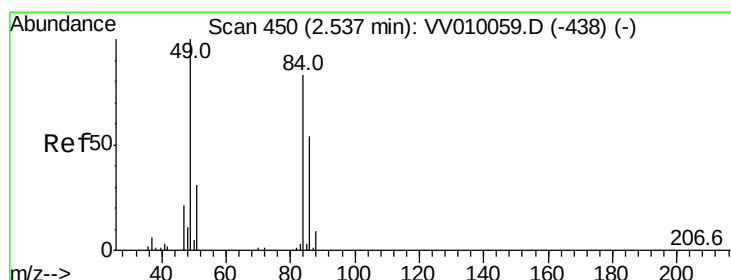
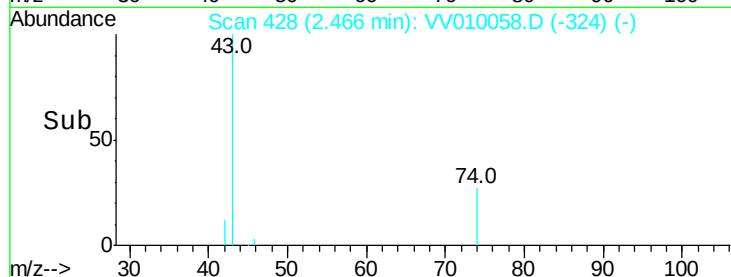
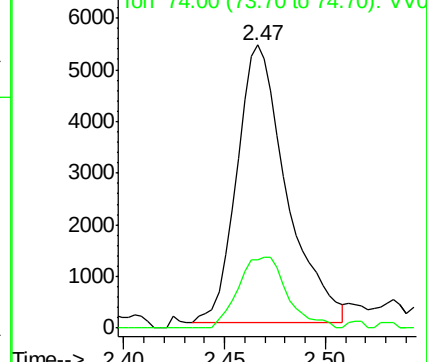
Ion Ratio Lower Upper

43 100

74 25.3 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VV010059.D (-415) (-)



#16

Methylene chloride

Concen: 7.384 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

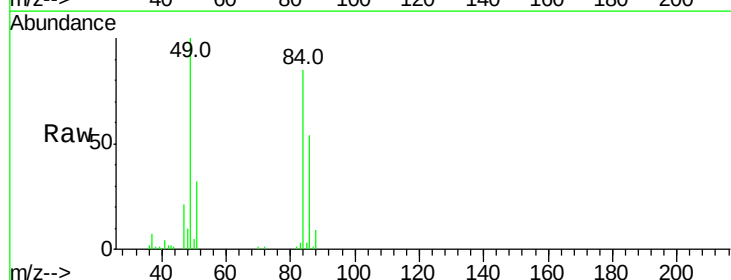
Tgt Ion: 84 Resp: 36339

Ion Ratio Lower Upper

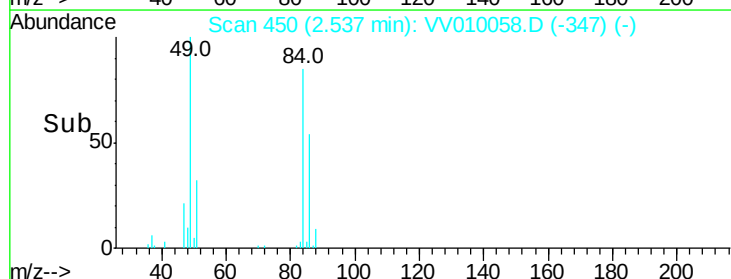
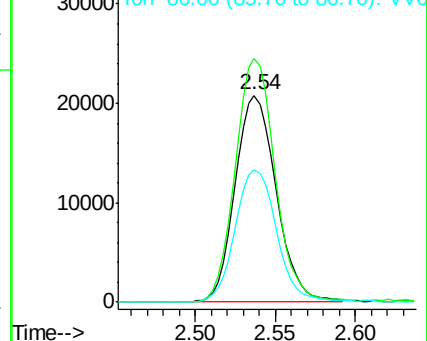
84 100

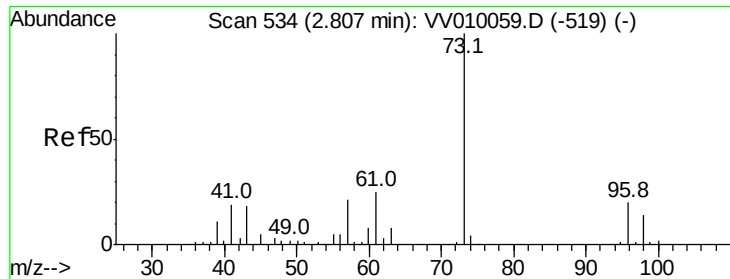
49 117.7 84.3 156.5

86 63.9 45.4 84.2



Abundance Ion 84.00 (83.70 to 84.70): VV010059.D (-438) (-)

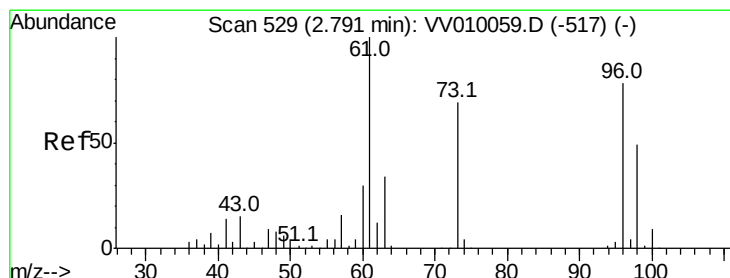
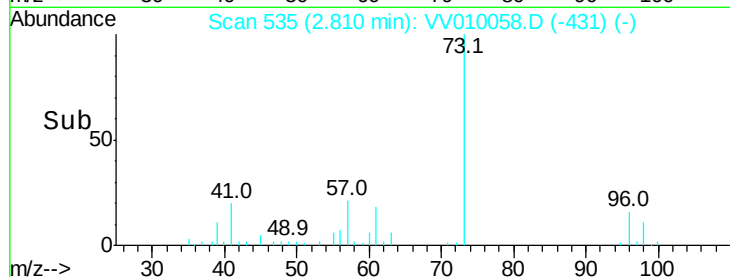
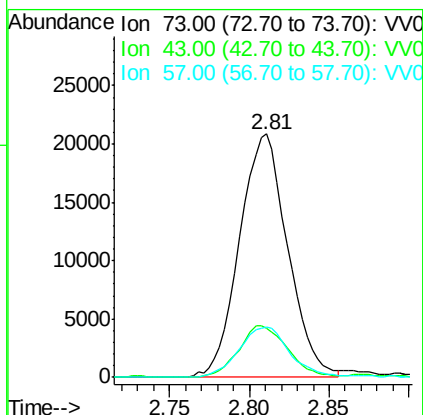
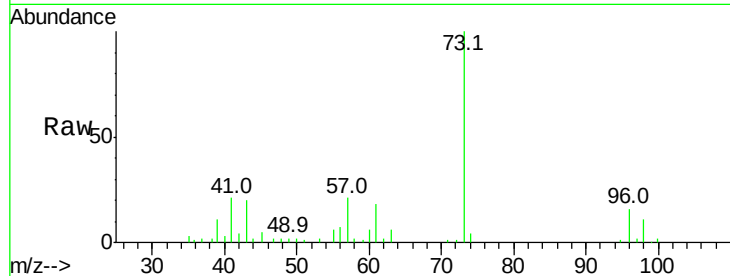




#17  
Methyl tert-butyl Ether  
Concen: 5.008 ug/L  
RT: 2.81 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

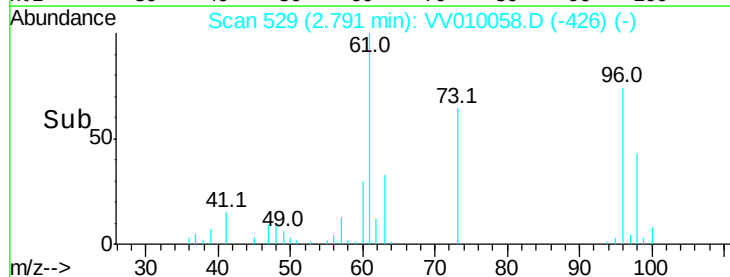
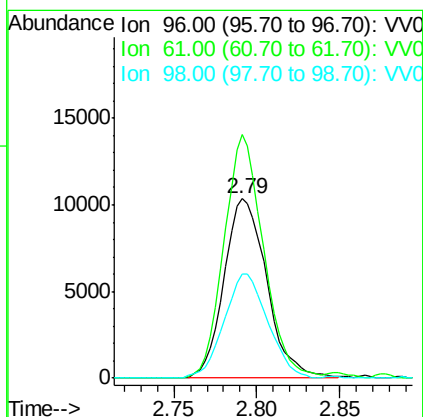
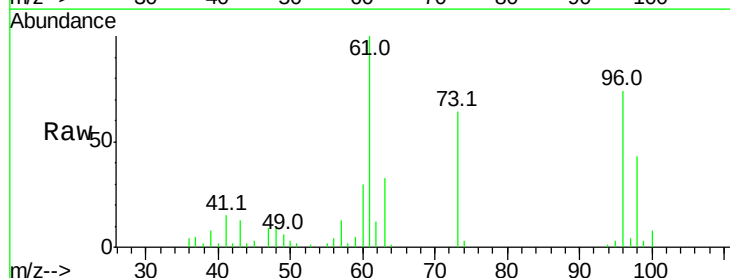
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD00562

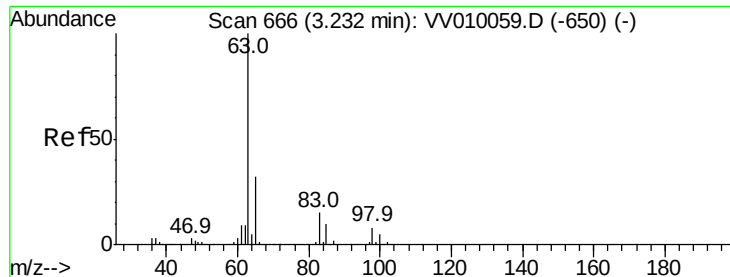
Tgt Ion: 73 Resp: 43001  
Ion Ratio Lower Upper  
73 100  
43 21.6 15.5 23.3  
57 21.7 16.8 25.2



#18  
trans-1,2-Dichloroethene  
Concen: 5.367 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Tgt Ion: 96 Resp: 18592  
Ion Ratio Lower Upper  
96 100  
61 135.7 90.0 167.2  
98 58.1 44.2 82.2

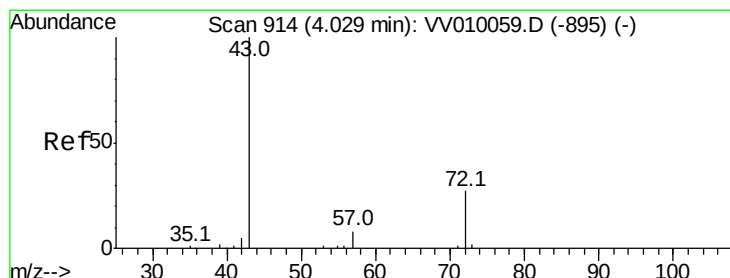
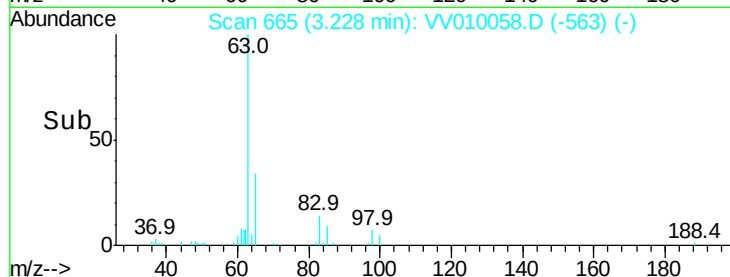
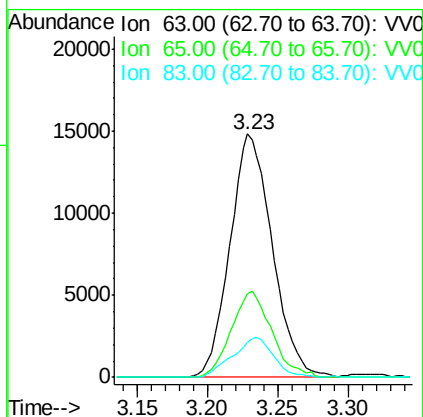
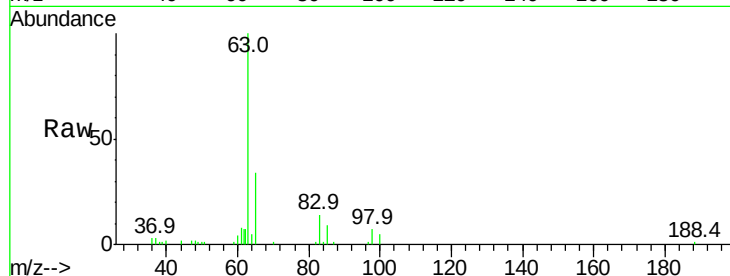




#19  
 1,1-Dichloroethane  
 Concen: 5.103 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

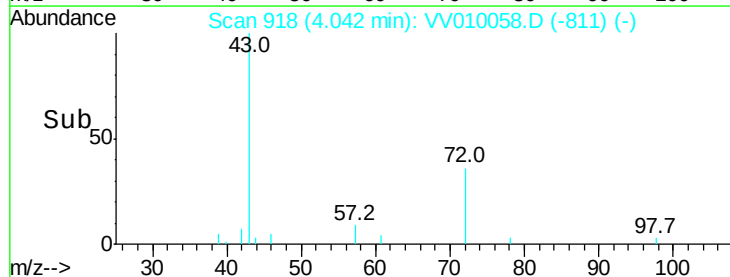
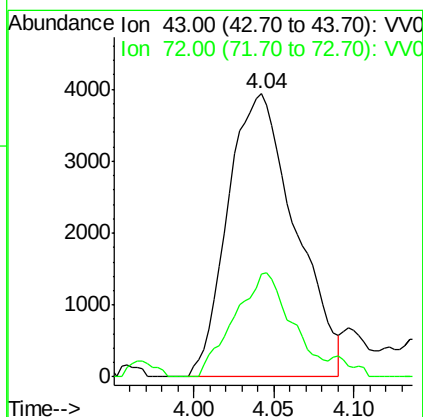
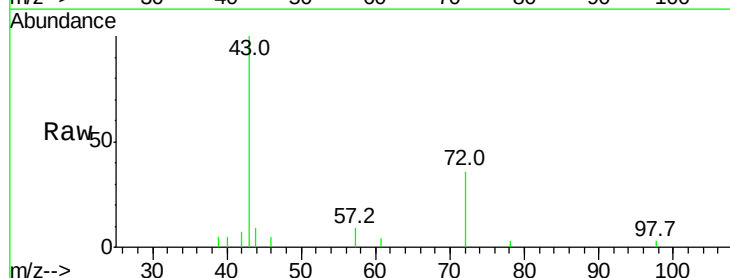
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

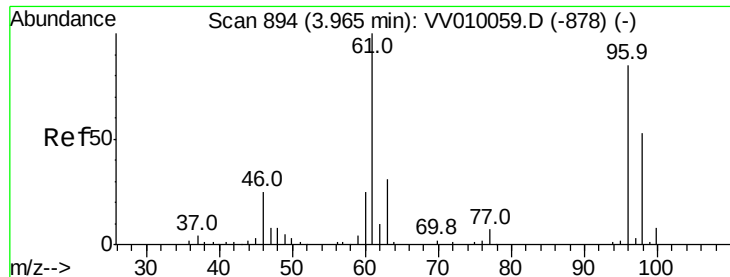
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 34.5  | 22.3  | 41.3  |
| 83      | 14.4  | 10.4  | 19.4  |



#21  
 2-Butanone  
 Concen: 9.680 ug/L  
 RT: 4.04 min Scan# 918  
 Delta R.T. 0.01 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 31.3  | 12.8  | 38.4  |



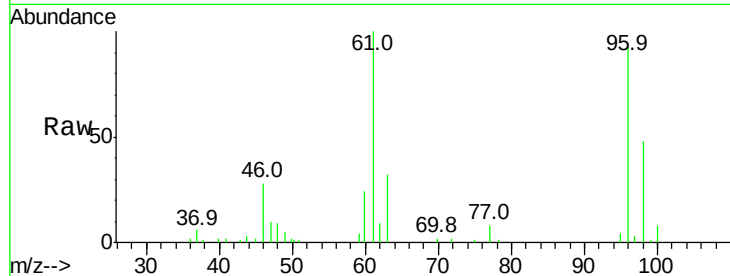


#22

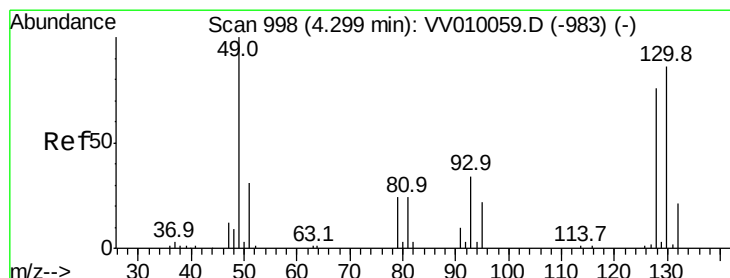
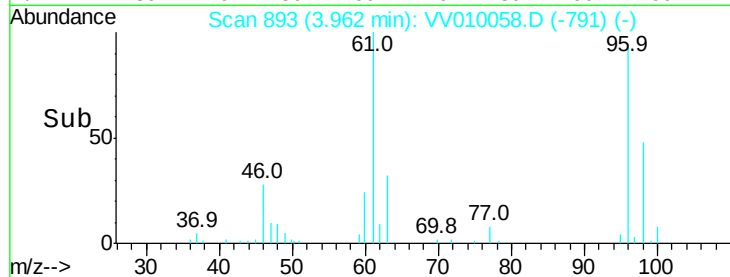
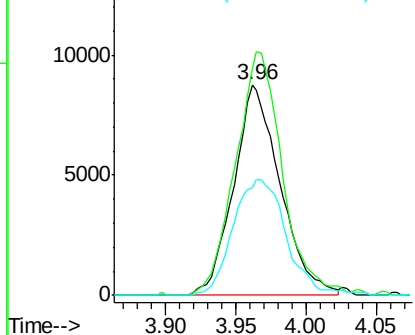
cis-1,2-Dichloroethene  
Concen: 5.202 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. -0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00562

Tgt Ion: 96 Resp: 20197  
Ion Ratio Lower Upper  
96 100  
61 107.5 82.7 153.5  
98 51.4 43.9 81.5



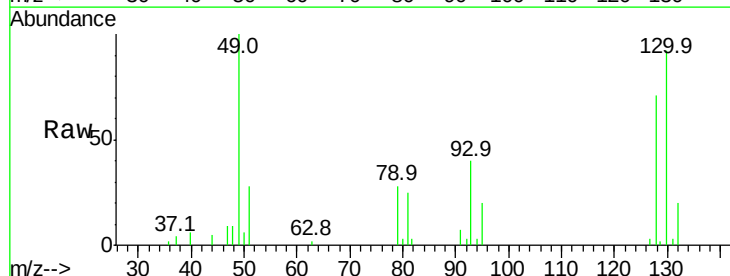
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0



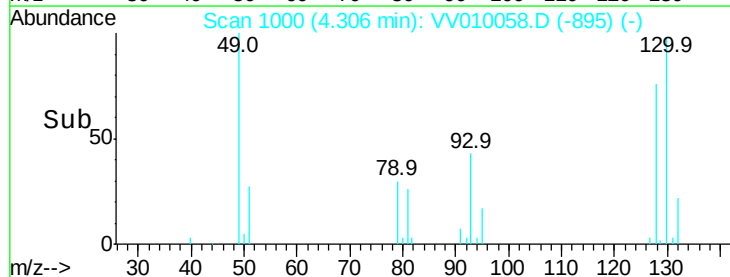
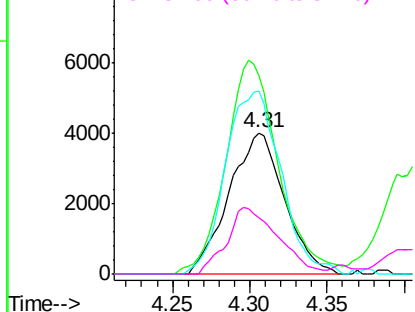
#23

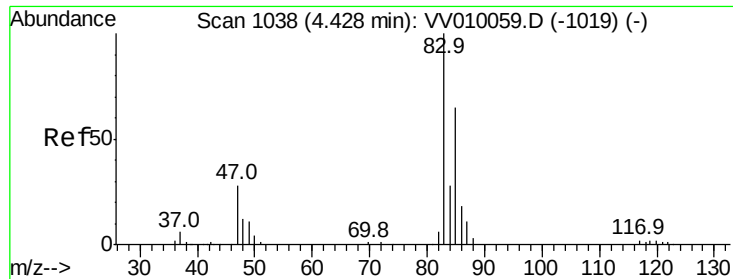
Bromochloromethane  
Concen: 5.217 ug/L  
RT: 4.31 min Scan# 1000  
Delta R.T. 0.01 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Tgt Ion: 128 Resp: 10010  
Ion Ratio Lower Upper  
128 100  
49 136.7 92.8 172.4  
130 126.2 80.6 149.6  
51 38.6 33.1 49.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VV0  
Ion 130.00 (129.70 to 130.70): V  
Ion 51.00 (50.70 to 51.70): VV0





#25

Chloroform

Concen: 4.968 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

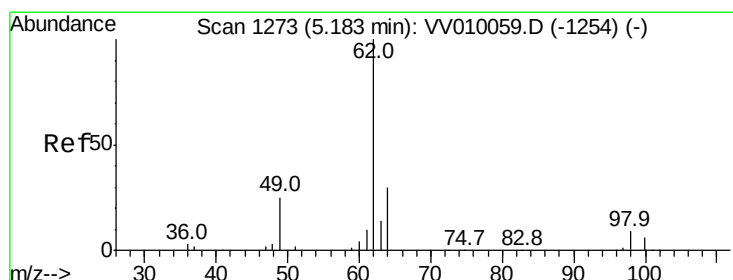
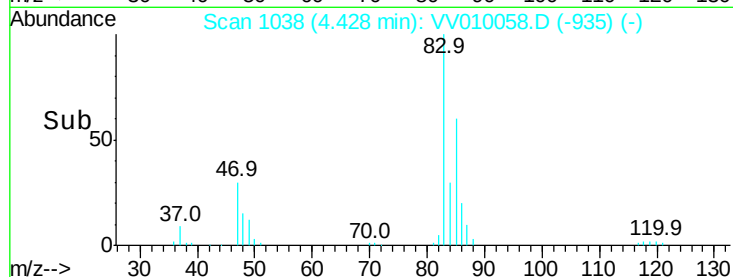
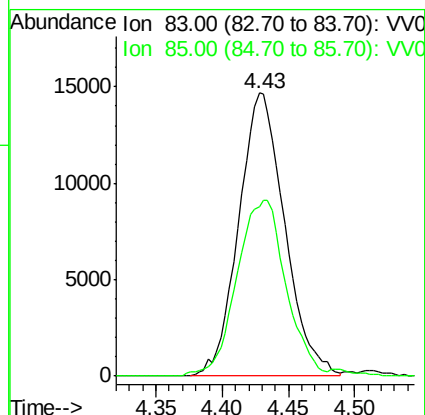
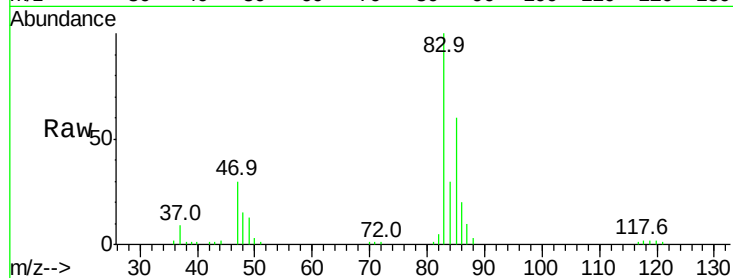
VSTD00562

Tgt Ion: 83 Resp: 35466

Ion Ratio Lower Upper

83 100

85 66.2 46.4 86.2



#27

1,2-Dichloroethane

Concen: 5.275 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VV010058.D

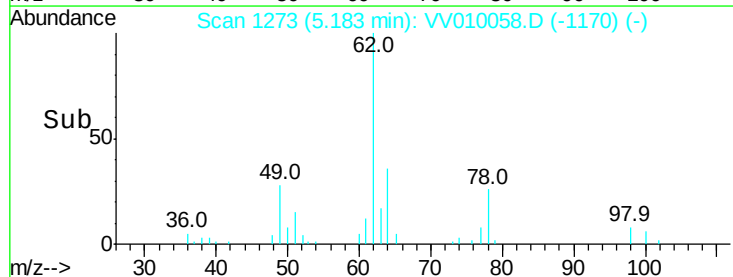
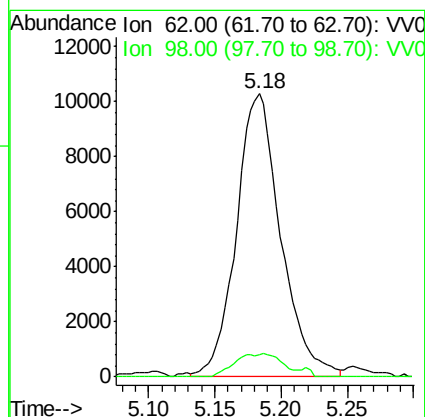
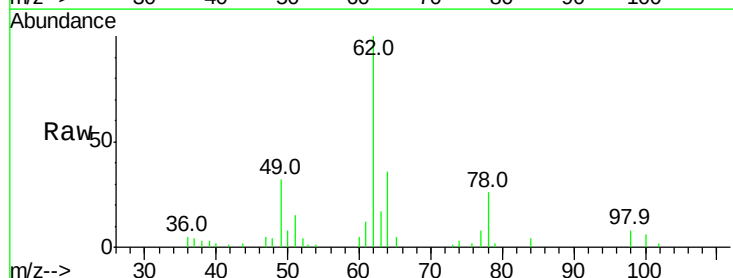
Acq: 02 Apr 2019 13:12

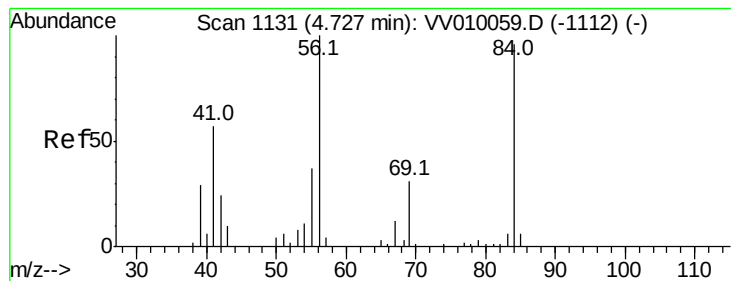
Tgt Ion: 62 Resp: 23917

Ion Ratio Lower Upper

62 100

98 7.9 7.2 10.8





#30

Cyclohexane

Concen: 5.661 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampled :

VSTD00562

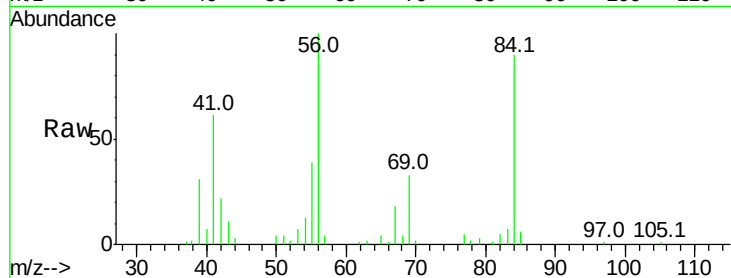
Tgt Ion: 56 Resp: 27537

Ion Ratio Lower Upper

56 100

69 22.2 25.1 37.7#

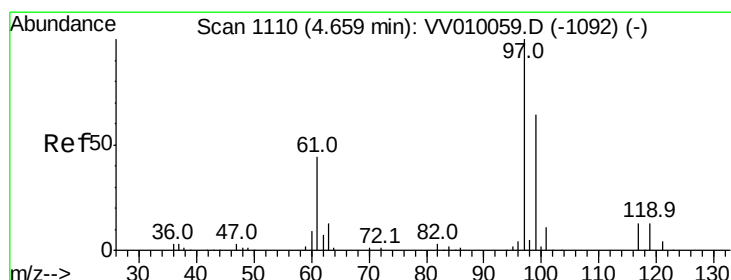
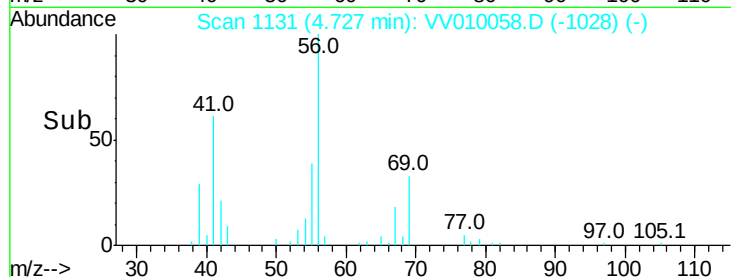
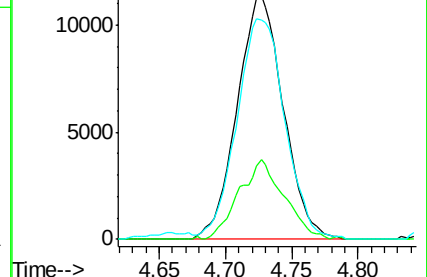
84 94.3 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV010059.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV010059.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV010059.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 5.453 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

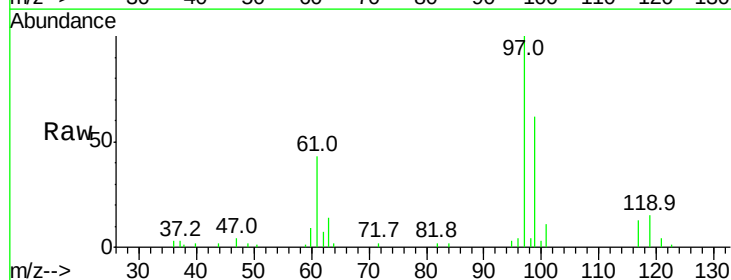
Tgt Ion: 97 Resp: 29663

Ion Ratio Lower Upper

97 100

99 64.5 52.4 78.6

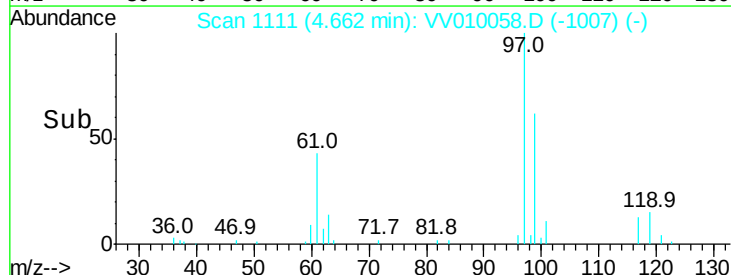
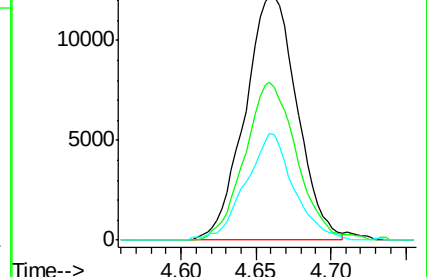
61 39.8 34.1 51.1

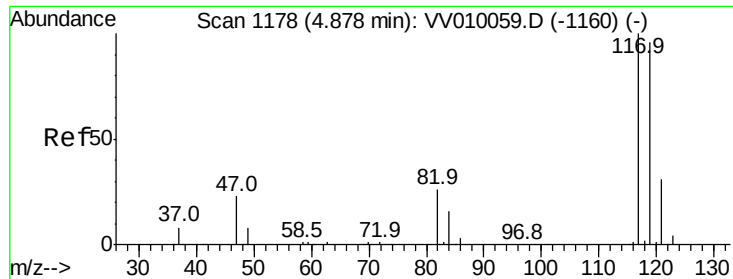


Abundance Ion 97.00 (96.70 to 97.70): VV010059.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV010059.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV010059.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 5.368 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampled :

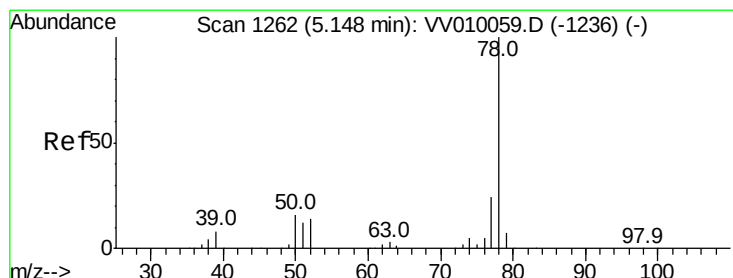
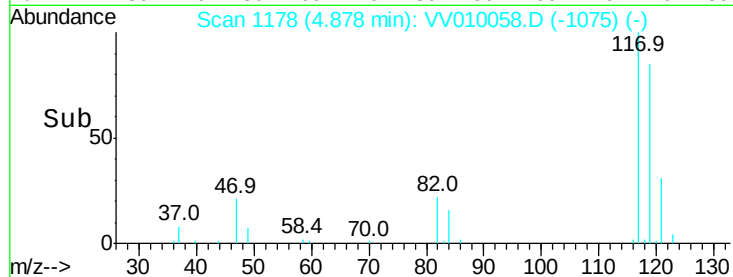
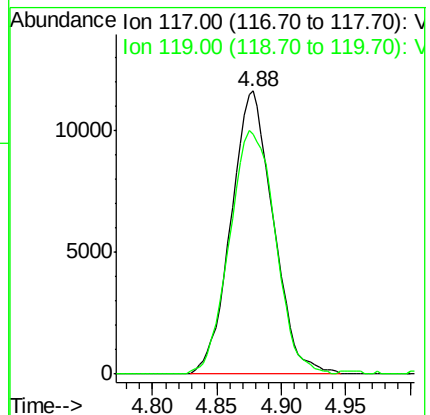
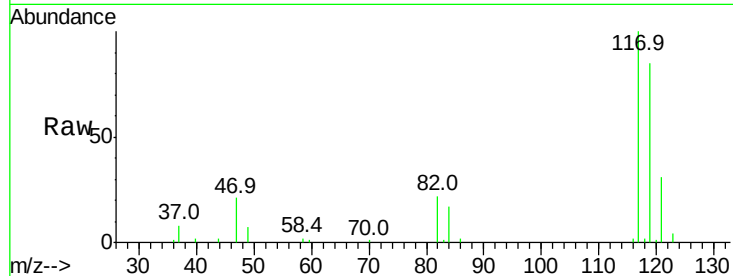
VSTD00562

Tgt Ion:117 Resp: 26594

Ion Ratio Lower Upper

117 100

119 93.0 76.1 114.1



#34

Benzene

Concen: 5.247 ug/L

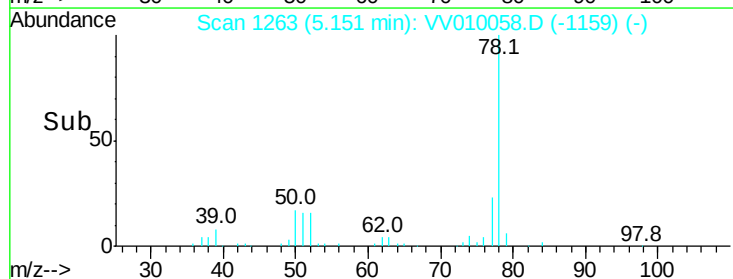
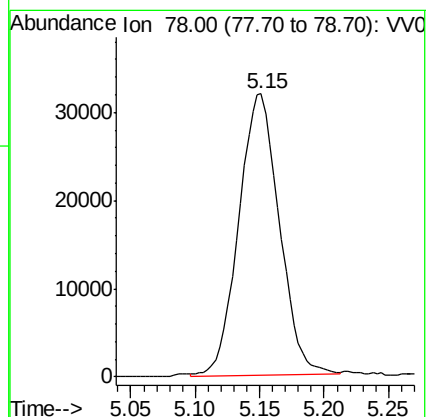
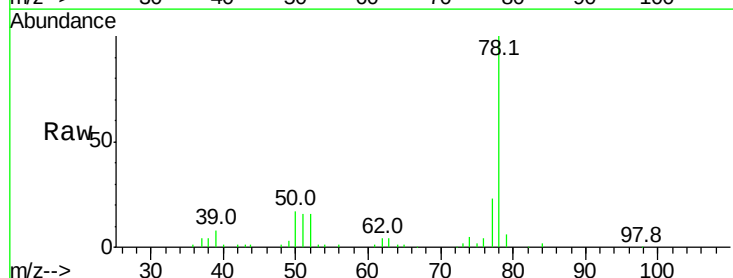
RT: 5.15 min Scan# 1263

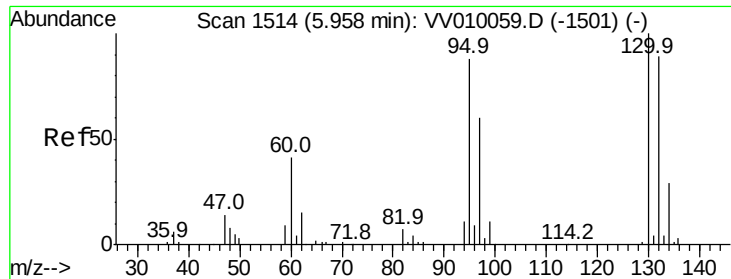
Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Tgt Ion: 78 Resp: 69961





#35

Trichloroethene

Concen: 5.706 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00562

Tgt Ion: 95 Resp: 21762

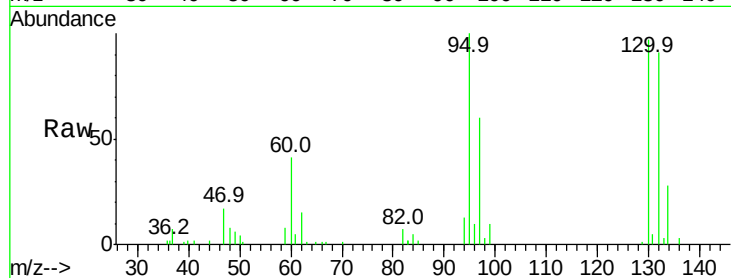
Ion Ratio Lower Upper

95 100

97 61.8 45.8 85.2

132 98.4 70.6 131.0

130 101.2 76.1 141.3

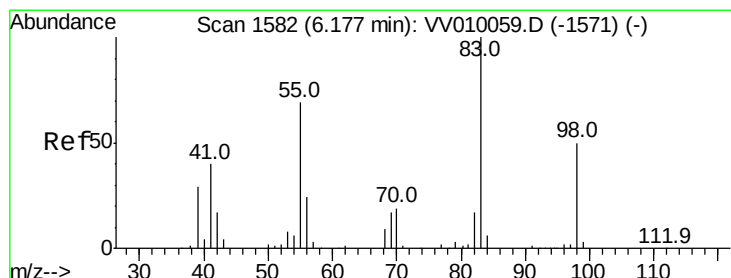
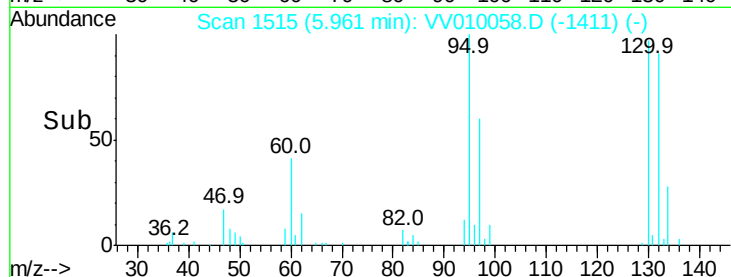
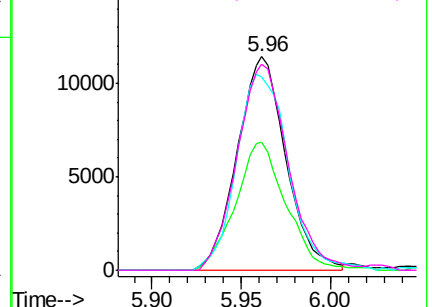


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#36

Methylcyclohexane

Concen: 5.350 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

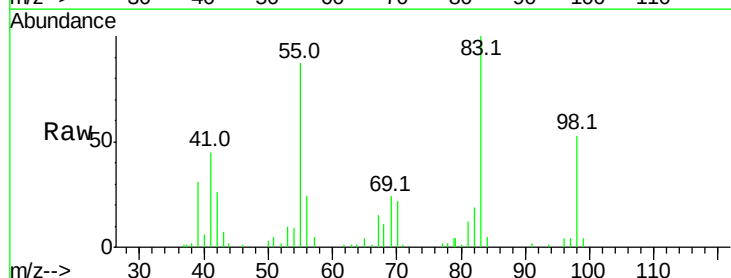
Tgt Ion: 83 Resp: 31385

Ion Ratio Lower Upper

83 100

55 74.6 56.3 84.5

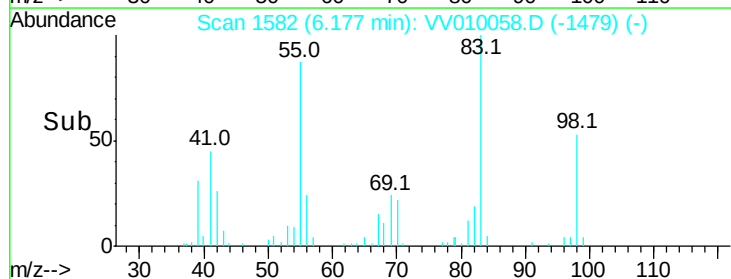
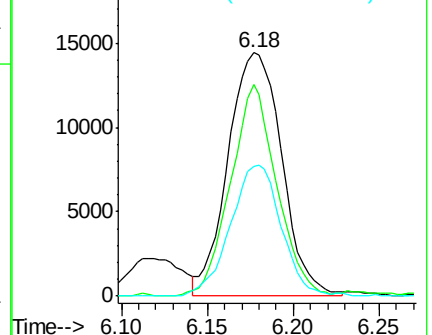
98 50.4 39.0 58.6



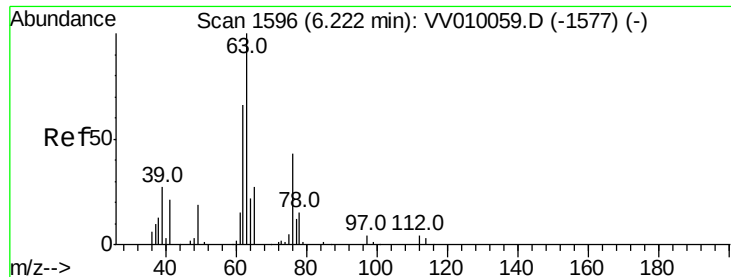
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



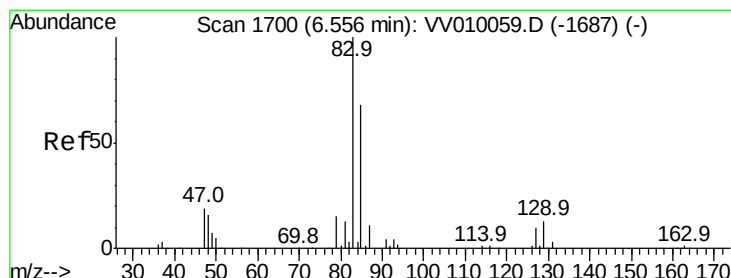
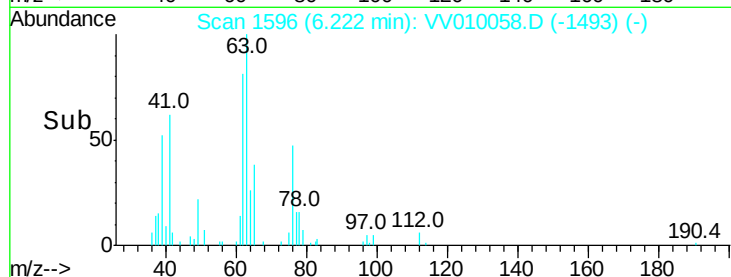
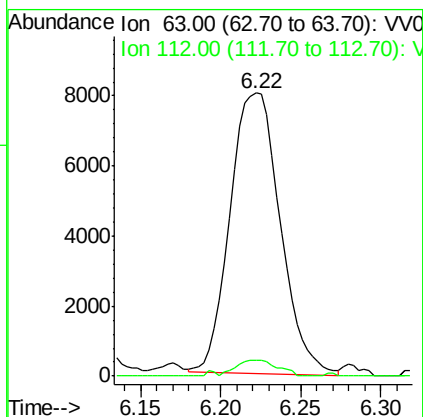
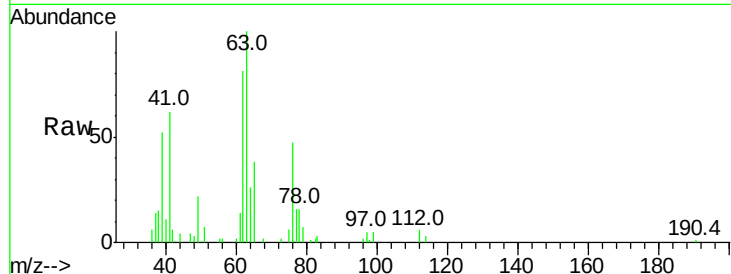




#40  
 1,2-Dichloropropane  
 Concen: 5.244 ug/L  
 RT: 6.22 min Scan# 1596  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

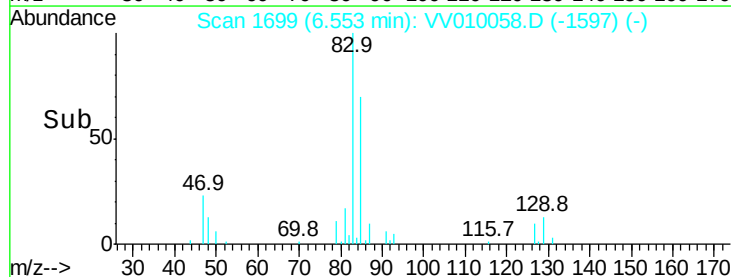
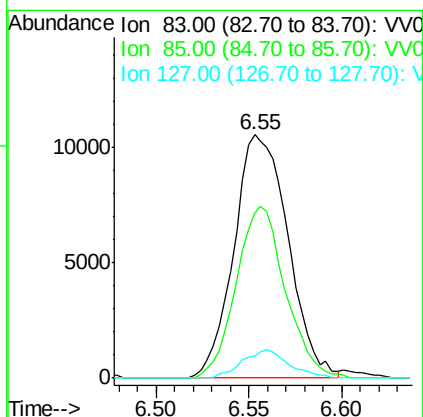
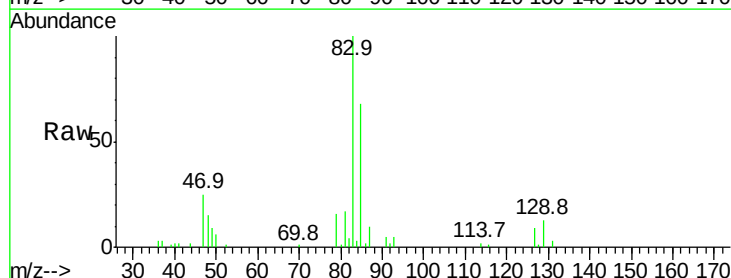
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

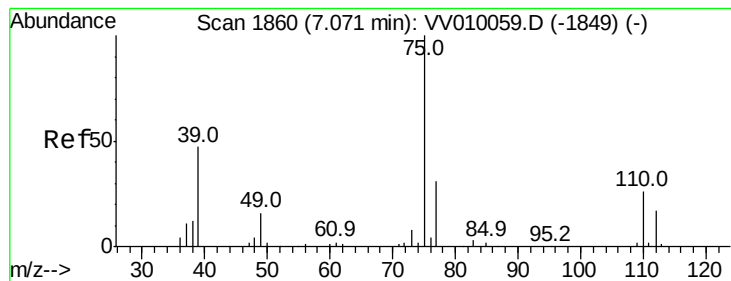
Tgt Ion: 63 Resp: 17109  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.6 5.4



#41  
 Bromodichloromethane  
 Concen: 4.928 ug/L  
 RT: 6.55 min Scan# 1699  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Tgt Ion: 83 Resp: 21426  
 Ion Ratio Lower Upper  
 83 100  
 85 68.0 47.5 88.3  
 127 10.4 7.7 11.5





#42

cis-1,3-Dichloropropene

Concen: 4.546 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampled :

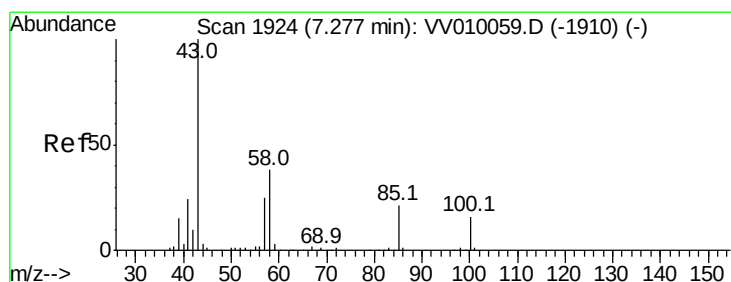
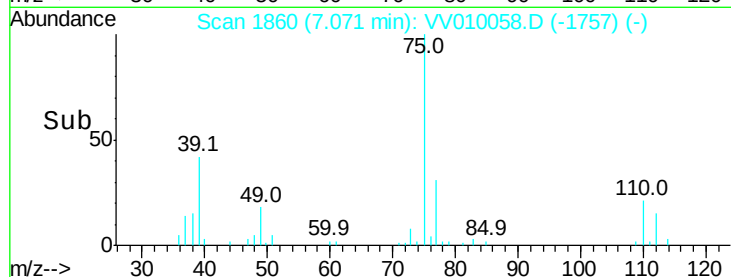
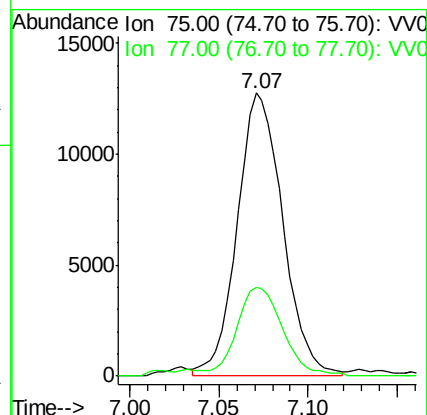
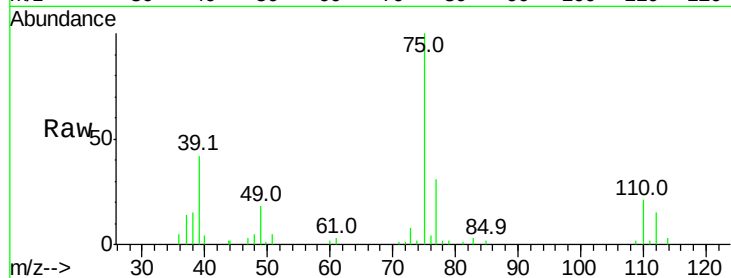
VSTD00562

Tgt Ion: 75 Resp: 22690

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 9.976 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

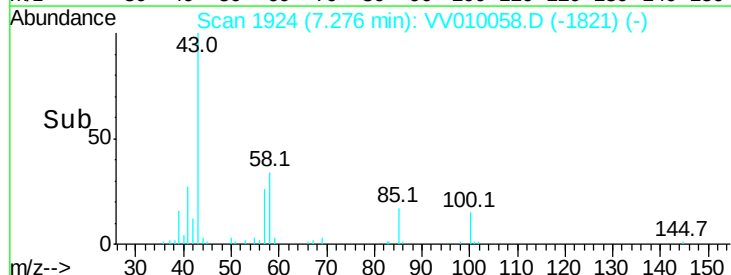
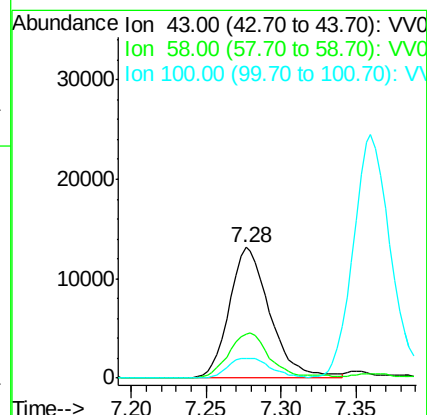
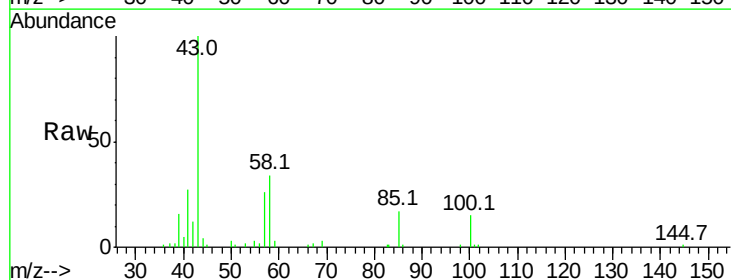
Tgt Ion: 43 Resp: 24875

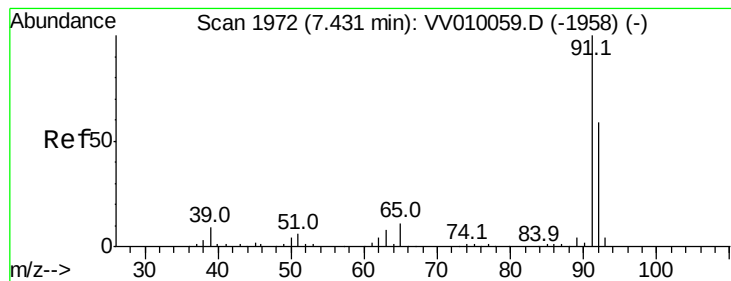
Ion Ratio Lower Upper

43 100

58 33.5 31.5 47.3

100 15.9 13.4 20.0





#44

Toluene

Concen: 5.249 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

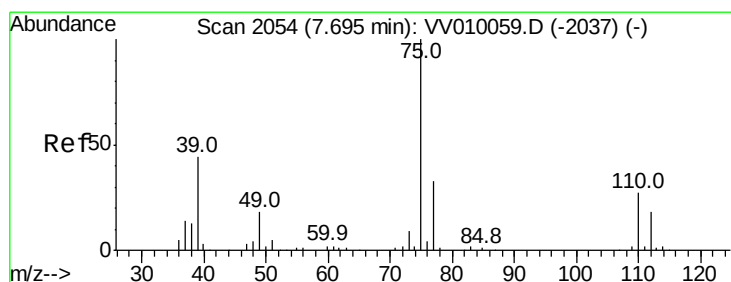
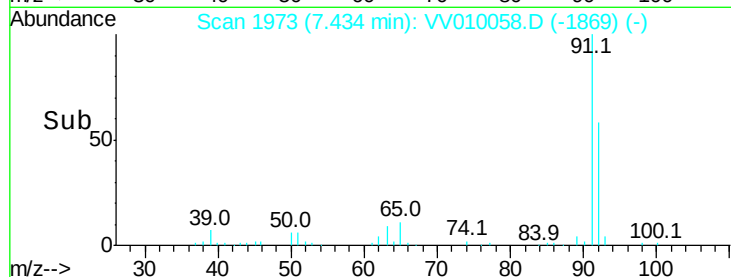
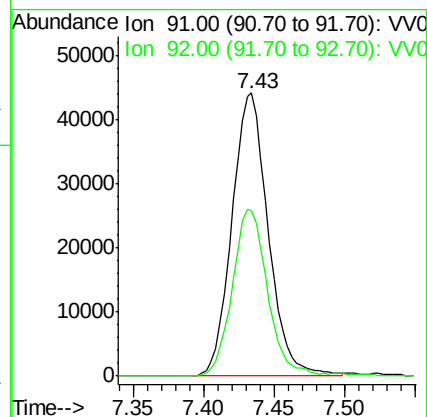
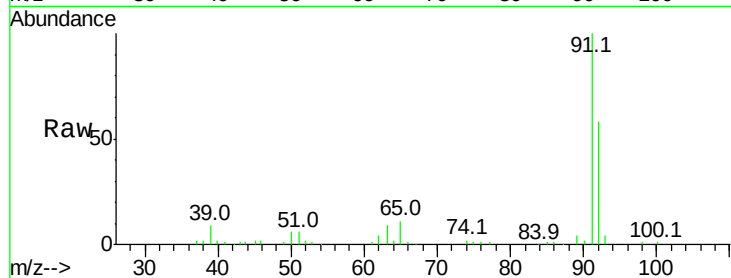
VSTD00562

Tgt Ion: 91 Resp: 79323

Ion Ratio Lower Upper

91 100

92 58.5 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 4.604 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV010058.D

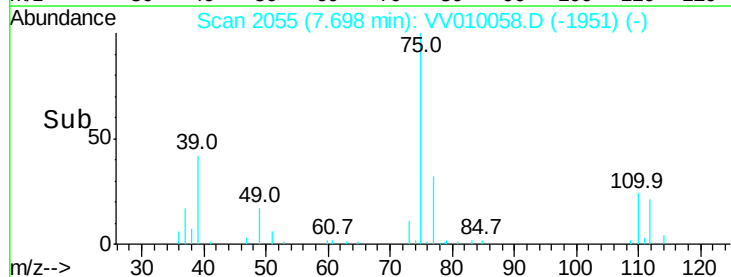
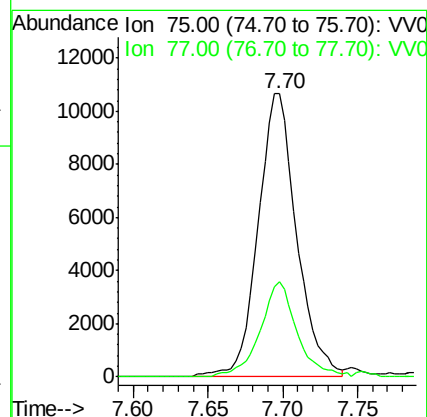
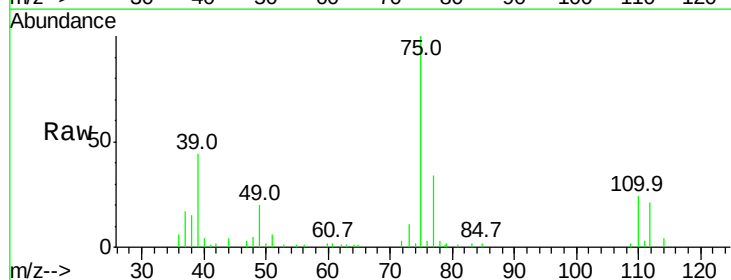
Acq: 02 Apr 2019 13:12

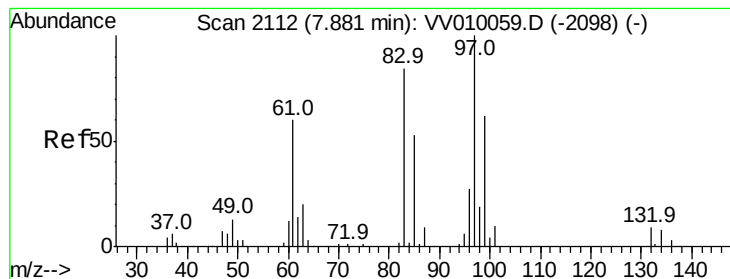
Tgt Ion: 75 Resp: 19108

Ion Ratio Lower Upper

75 100

77 33.6 23.5 43.7





#46

1,1,2-Trichloroethane

Concen: 5.213 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00562

Tgt Ion: 97 Resp: 15408

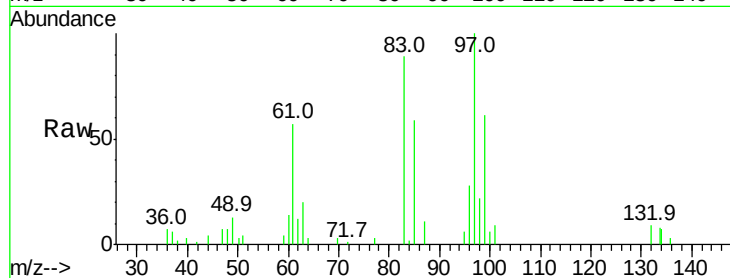
Ion Ratio Lower Upper

97 100

83 88.6 58.5 108.7

85 58.7 37.2 69.2

99 60.7 43.3 80.3

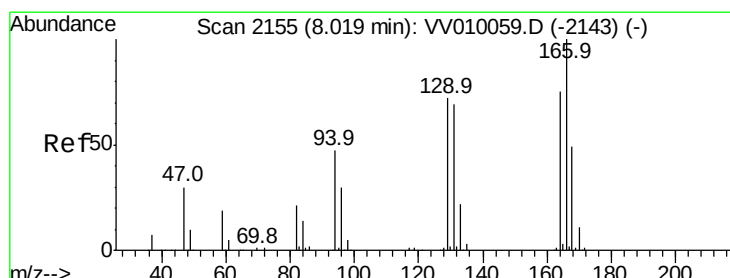
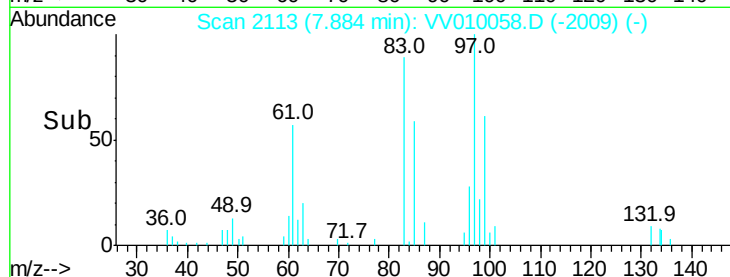
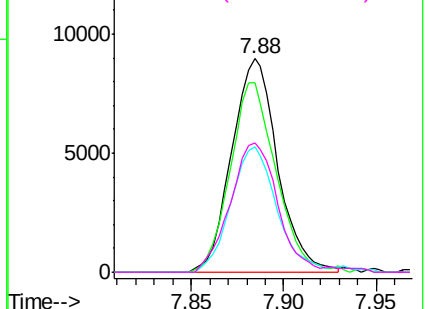


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 5.217 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Tgt Ion: 164 Resp: 16890

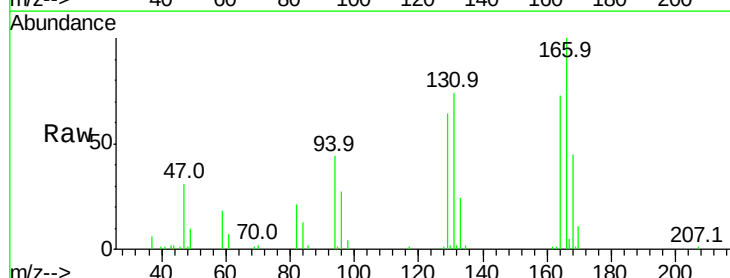
Ion Ratio Lower Upper

164 100

129 87.2 67.8 125.8

131 103.4 65.2 121.0

166 136.7 93.8 174.2

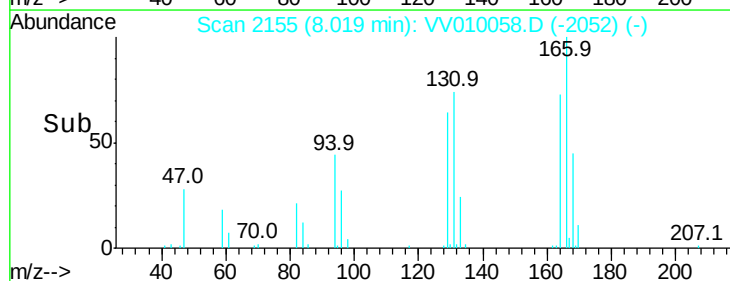
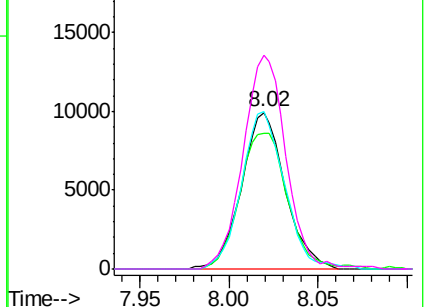


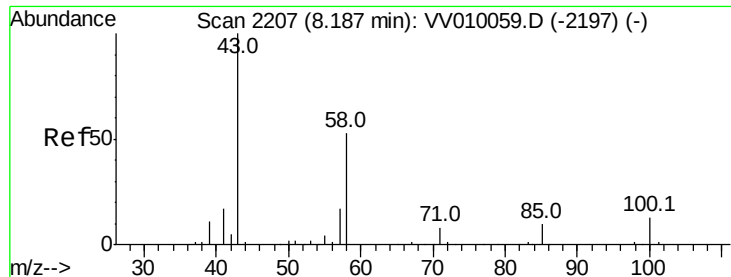
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

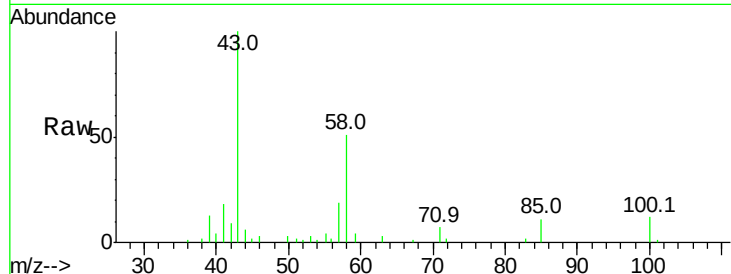




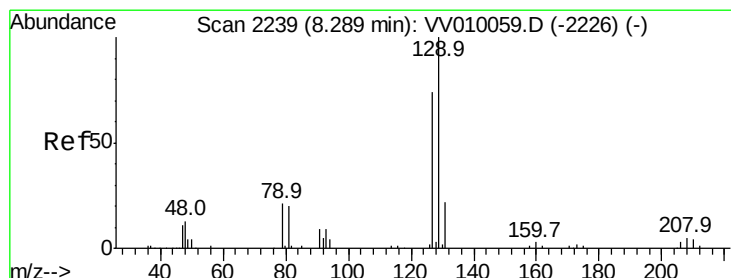
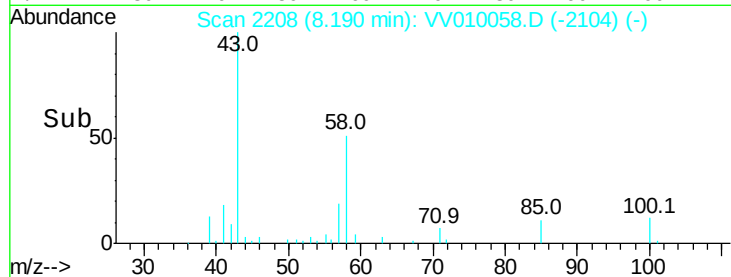
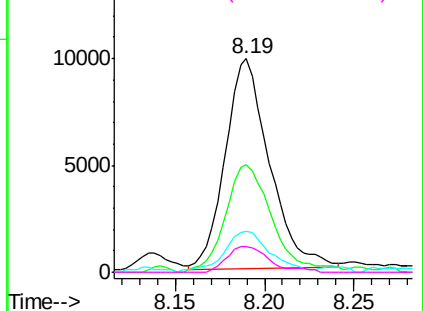
#49  
2-Hexanone  
Concen: 10.269 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00562

Tgt Ion: 43 Resp: 16982  
Ion Ratio Lower Upper  
43 100  
58 52.7 44.3 66.5  
57 20.5 13.8 20.8  
100 11.1 10.6 15.8

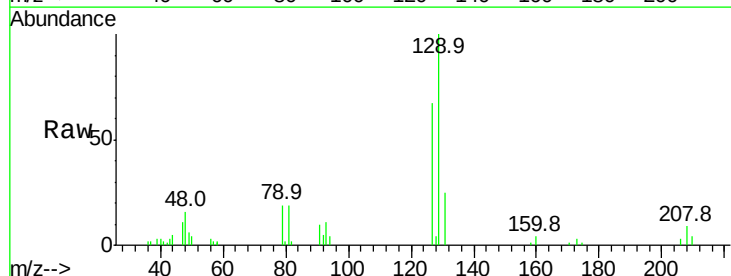


Abundance Ion 43.00 (42.70 to 43.70): VV010058.D (-2104) (-)  
Ion 58.00 (57.70 to 58.70): VV010058.D (-2104) (-)  
Ion 57.00 (56.70 to 57.70): VV010058.D (-2104) (-)  
Ion 100.00 (99.70 to 100.70): VV010058.D (-2104) (-)

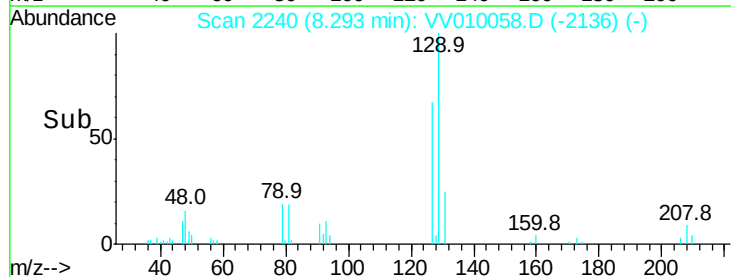
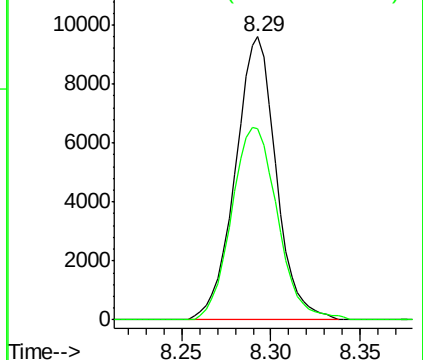


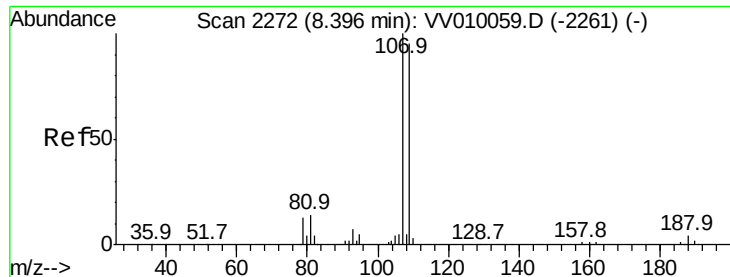
#50  
Dibromochloromethane  
Concen: 4.479 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Tgt Ion: 129 Resp: 15310  
Ion Ratio Lower Upper  
129 100  
127 67.4 52.1 96.7



Abundance Ion 129.00 (128.70 to 129.70): VV010058.D (-2136) (-)  
Ion 127.00 (126.70 to 127.70): VV010058.D (-2136) (-)

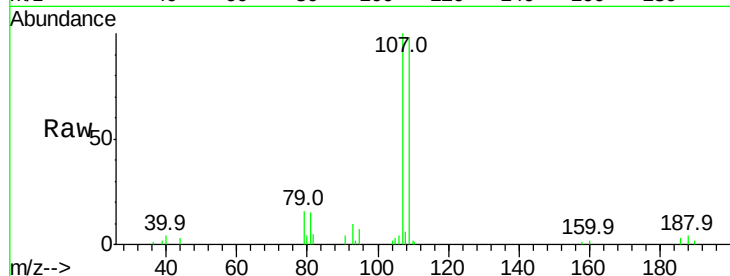




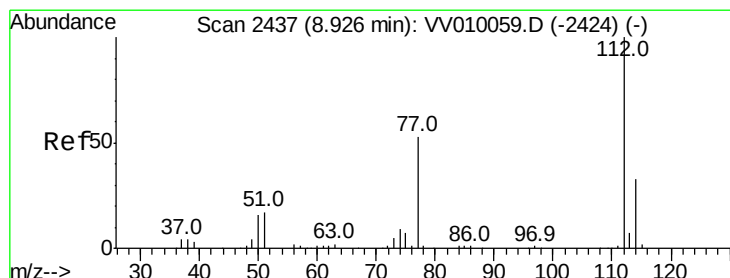
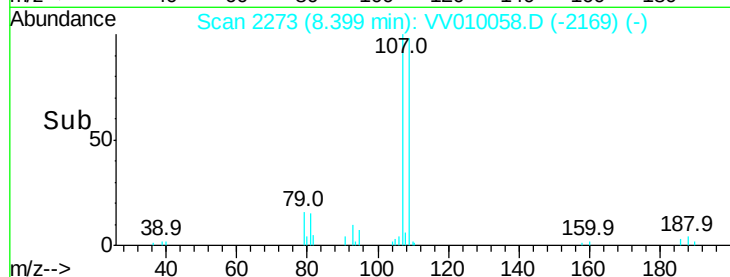
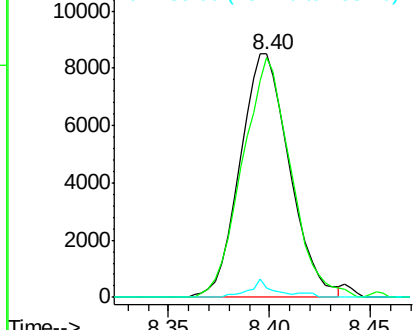
#51  
 1,2-Dibromoethane  
 Concen: 4.929 ug/L  
 RT: 8.40 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

Tgt Ion:107 Resp: 14605  
 Ion Ratio Lower Upper  
 107 100  
 109 98.2 66.5 123.5  
 188 3.8 3.3 4.9

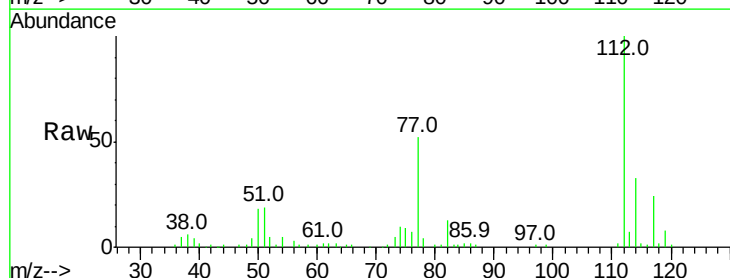


Abundance Ion 107.00 (106.70 to 107.70): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 188.00 (187.70 to 188.70): V

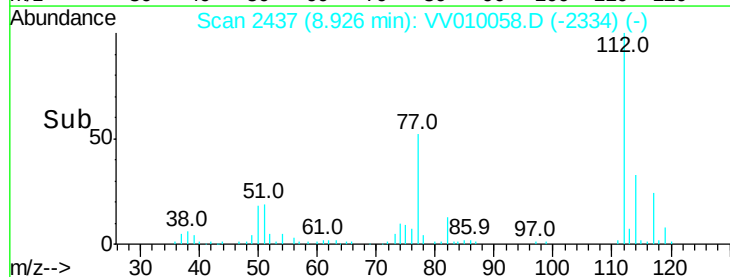
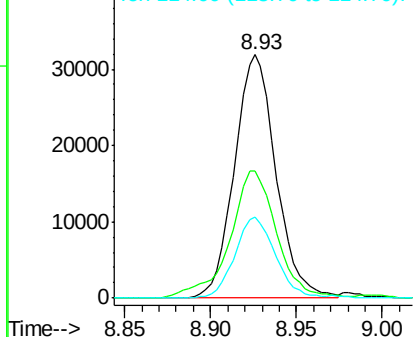


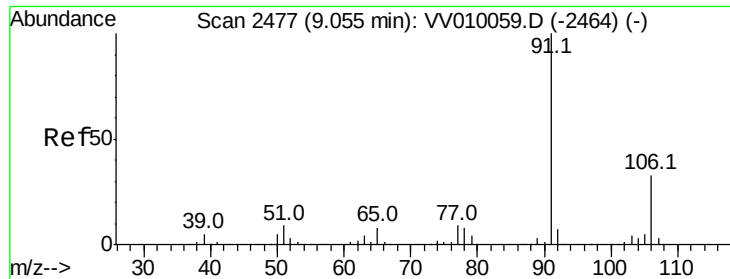
#52  
 Chlorobenzene  
 Concen: 5.138 ug/L  
 RT: 8.93 min Scan# 2437  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Tgt Ion:112 Resp: 53464  
 Ion Ratio Lower Upper  
 112 100  
 77 52.2 42.9 64.3  
 114 33.3 23.4 43.4



Abundance Ion 112.00 (111.70 to 112.70): V  
 Ion 77.00 (76.70 to 77.70): V  
 Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 5.054 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

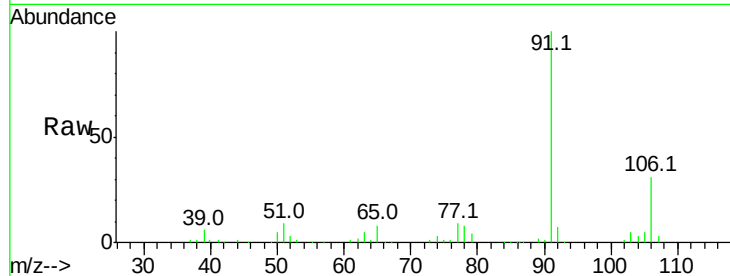
VSTD00562

Tgt Ion: 91 Resp: 84403

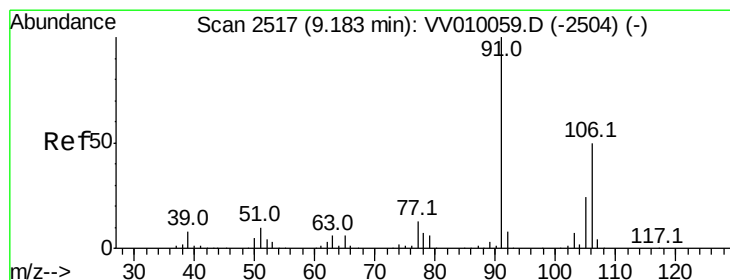
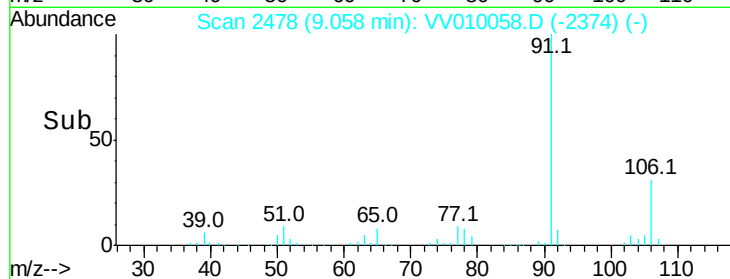
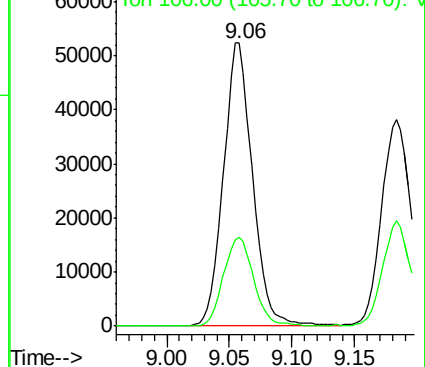
Ion Ratio Lower Upper

91 100

106 31.4 23.1 42.9



Abundance Ion 91.00 (90.70 to 91.70): VV010059.D (-2464) (-)



#54

m,p-Xylene

Concen: 4.767 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010058.D

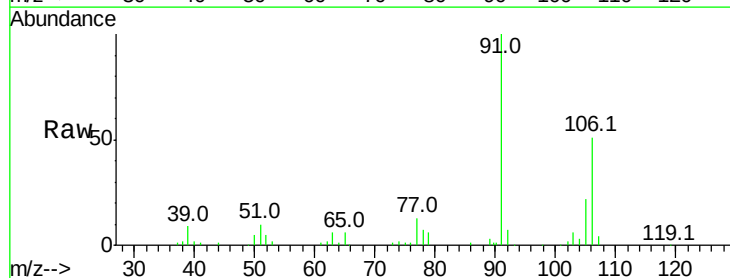
Acq: 02 Apr 2019 13:12

Tgt Ion: 106 Resp: 31915

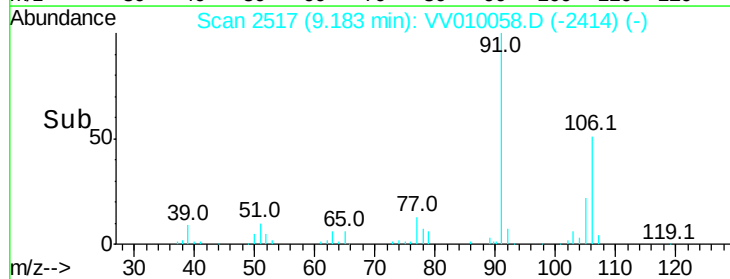
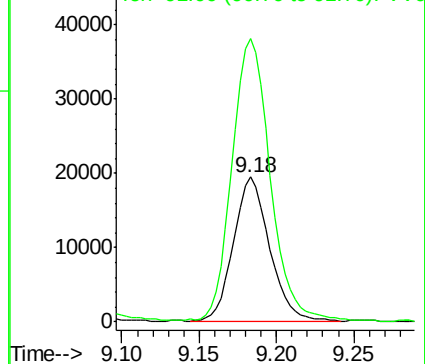
Ion Ratio Lower Upper

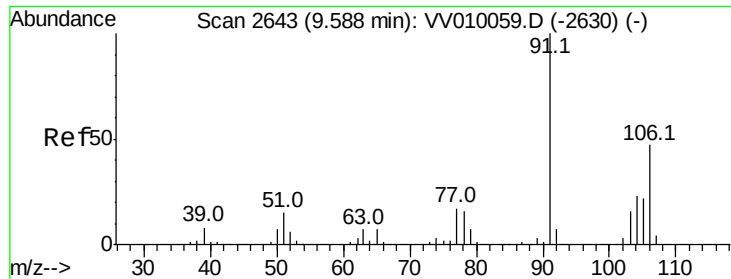
106 100

91 195.6 139.3 258.7



Abundance Ion 106.00 (105.70 to 106.70): VV010059.D (-2504) (-)

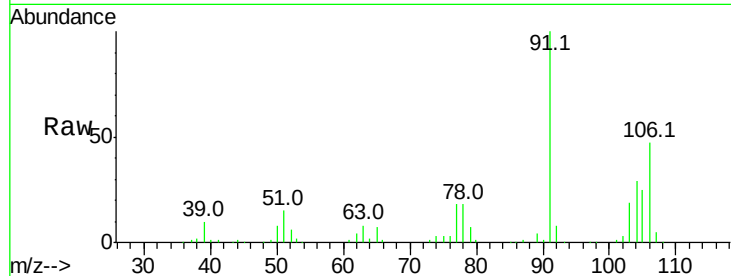




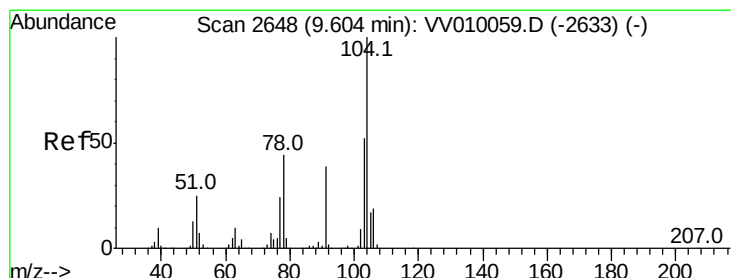
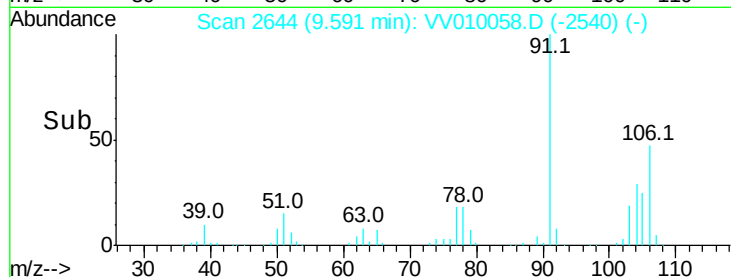
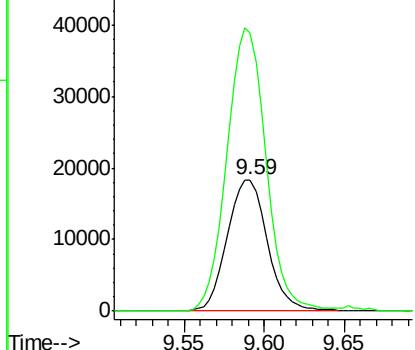
#55  
o-xylene  
Concen: 4.947 ug/L  
RT: 9.59 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00562

Tgt Ion:106 Resp: 31332  
Ion Ratio Lower Upper  
106 100  
91 211.7 150.4 279.2

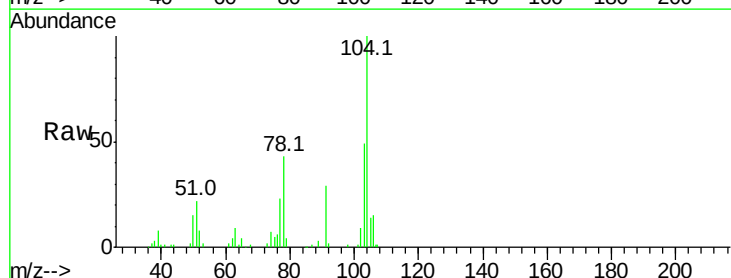


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

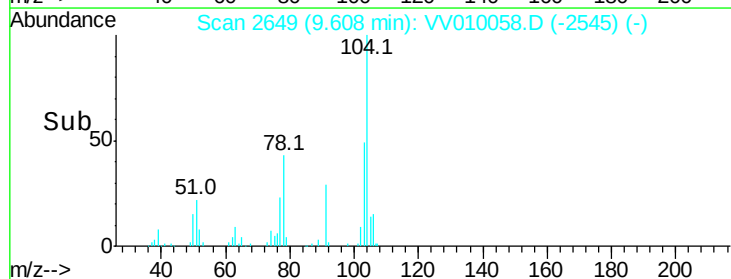
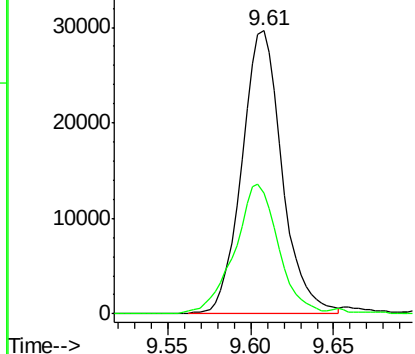


#56  
Styrene  
Concen: 4.727 ug/L  
RT: 9.61 min Scan# 2649  
Delta R.T. 0.00 min  
Lab File: VV010058.D  
Acq: 02 Apr 2019 13:12

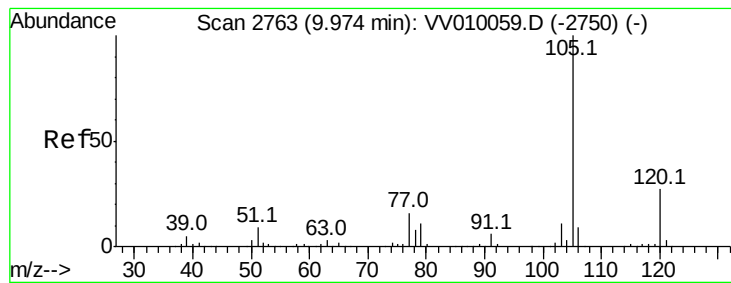
Tgt Ion:104 Resp: 50090  
Ion Ratio Lower Upper  
104 100  
78 42.7 30.5 56.7



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0







#57

Isopropylbenzene

Concen: 4.888 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00562

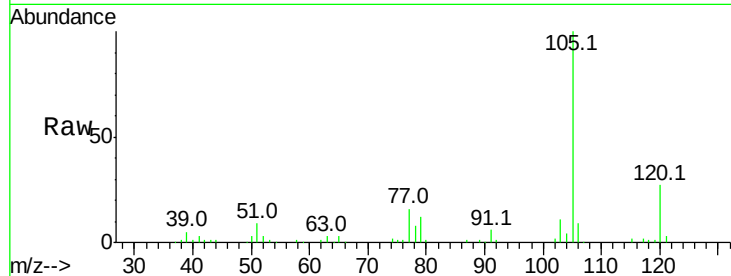
Tgt Ion:105 Resp: 82480

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

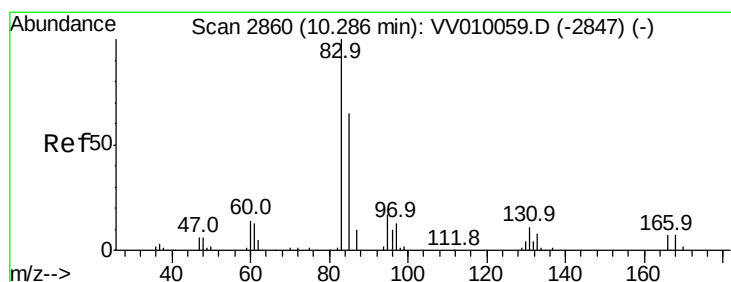
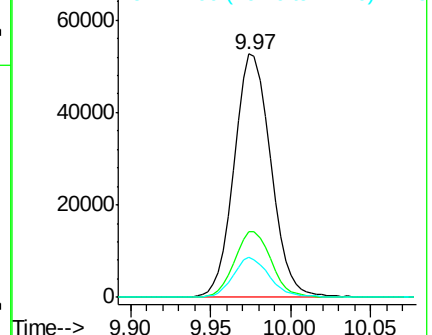
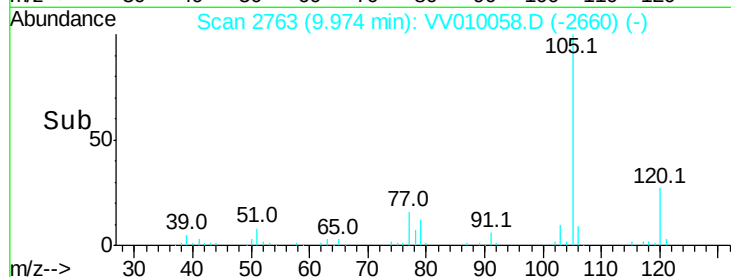
77 16.3 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.084 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

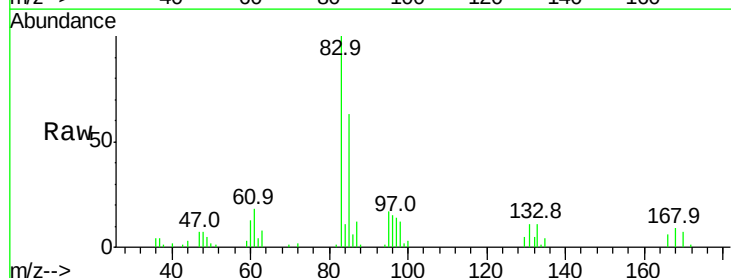
Tgt Ion: 83 Resp: 19438

Ion Ratio Lower Upper

83 100

85 62.7 46.1 85.7

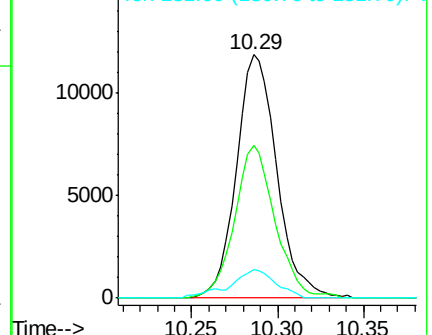
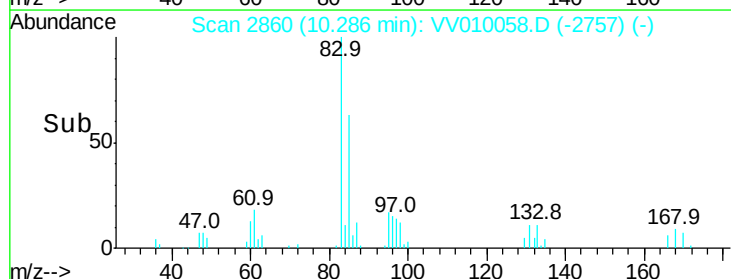
131 11.5 9.0 13.4

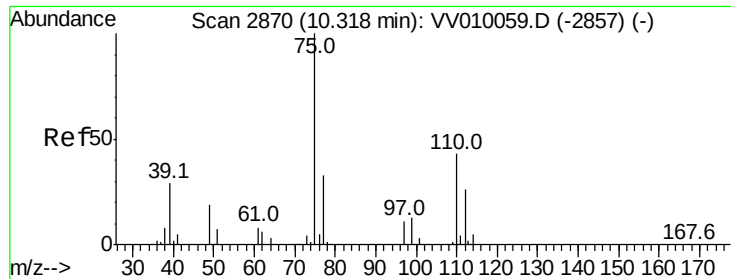


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.069 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

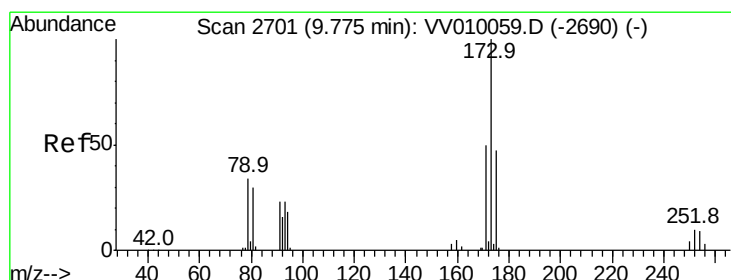
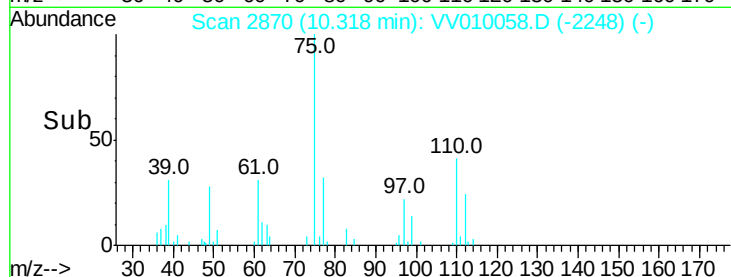
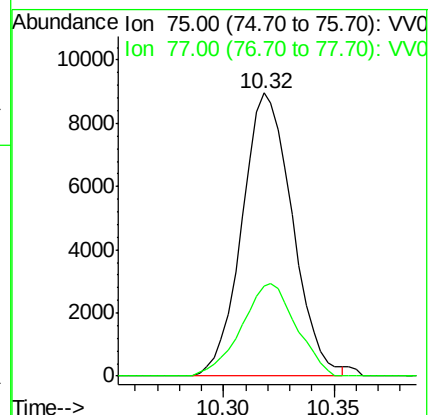
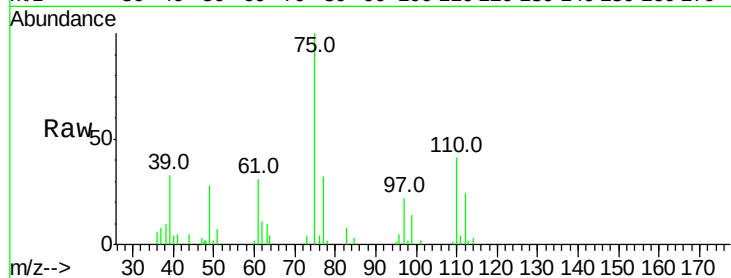
VSTD00562

Tgt Ion: 75 Resp: 14221

Ion Ratio Lower Upper

75 100

77 35.4 25.8 38.8



#62

Bromoform

Concen: 4.864 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

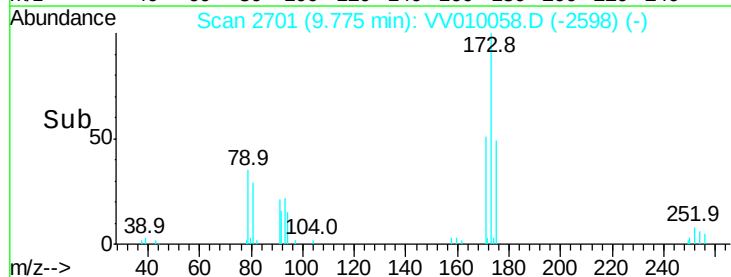
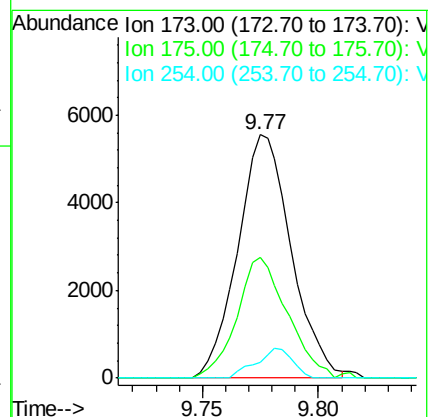
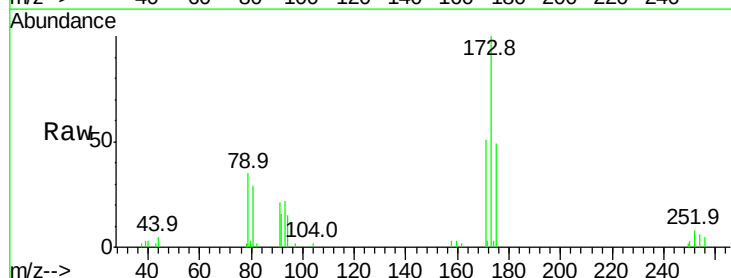
Tgt Ion: 173 Resp: 8881

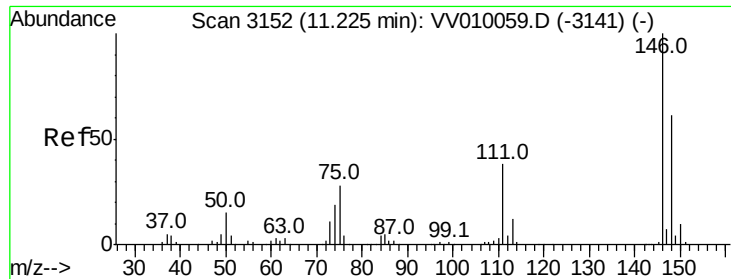
Ion Ratio Lower Upper

173 100

175 46.5 38.7 58.1

254 8.2 6.7 10.1

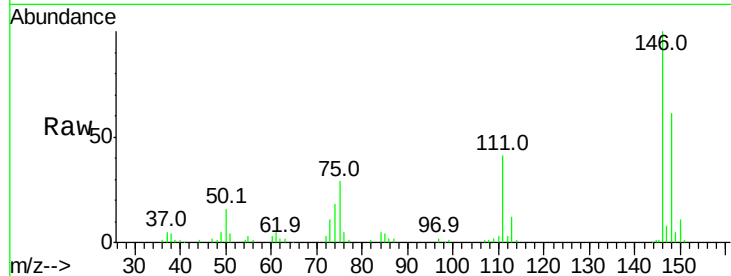




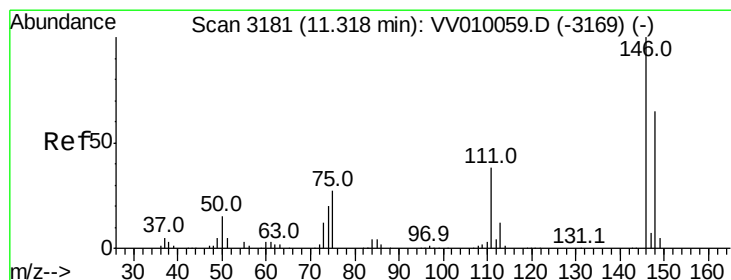
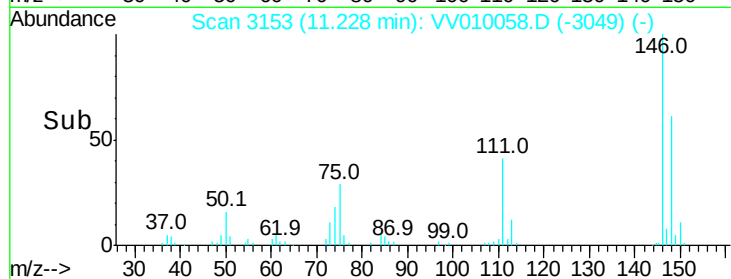
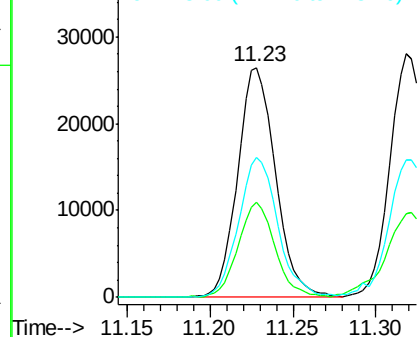
#63  
 1,3-Dichlorobenzene  
 Concen: 5.342 ug/L  
 RT: 11.23 min Scan# 3153  
 Delta R.T. 0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

Tgt Ion:146 Resp: 42108  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 26.8 49.8  
 148 61.1 42.7 79.3

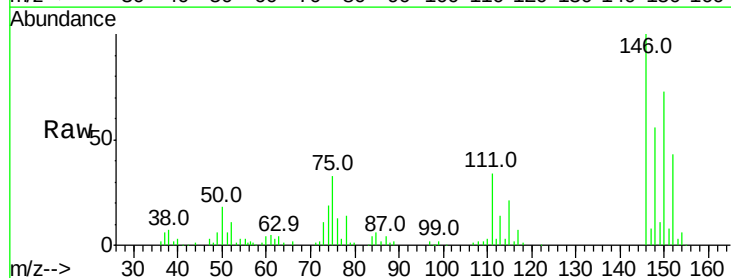


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

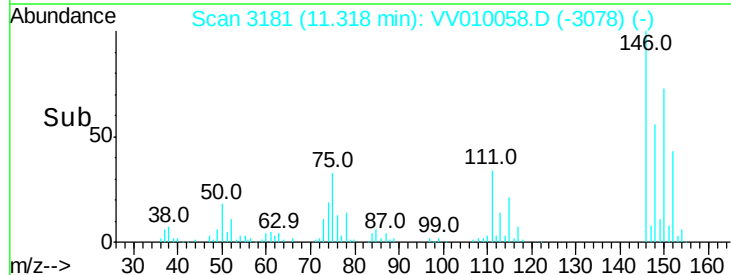
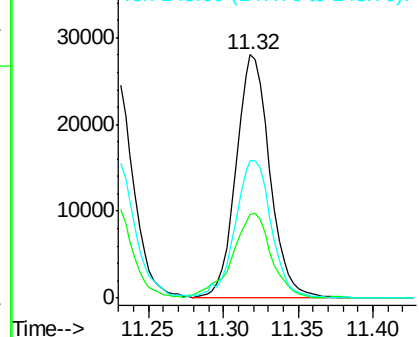


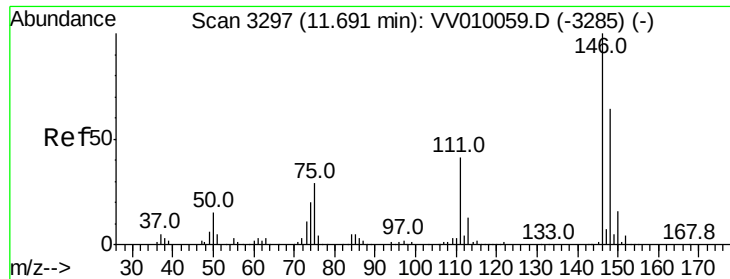
#64  
 1,4-Dichlorobenzene  
 Concen: 5.313 ug/L  
 RT: 11.32 min Scan# 3181  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Tgt Ion:146 Resp: 44043  
 Ion Ratio Lower Upper  
 146 100  
 111 34.1 26.9 50.1  
 148 56.3 45.6 84.6



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

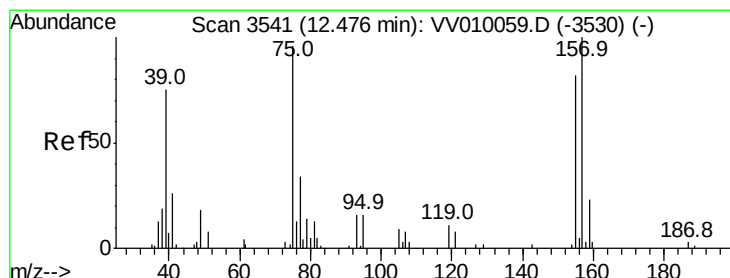
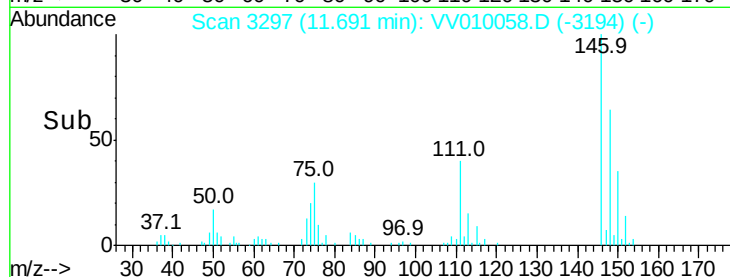
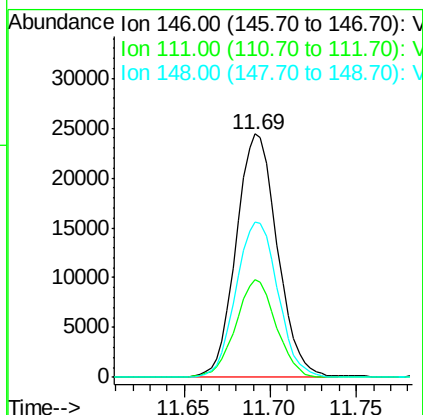
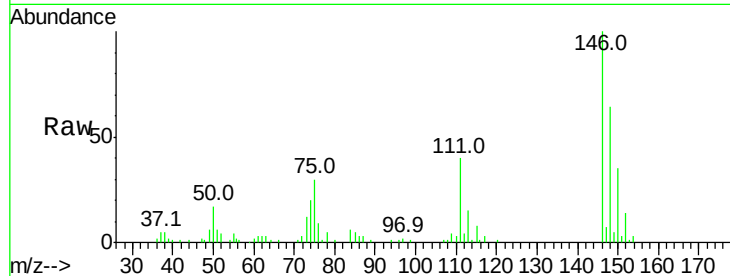




#65  
 1,2-Dichlorobenzene  
 Concen: 5.211 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

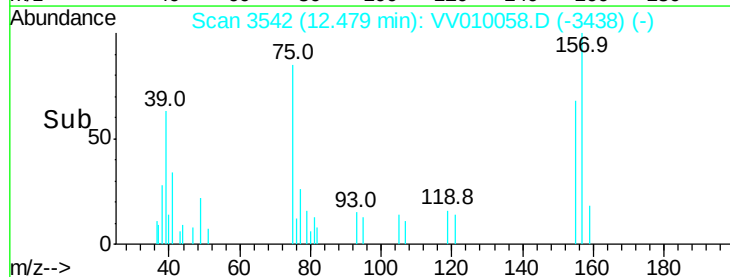
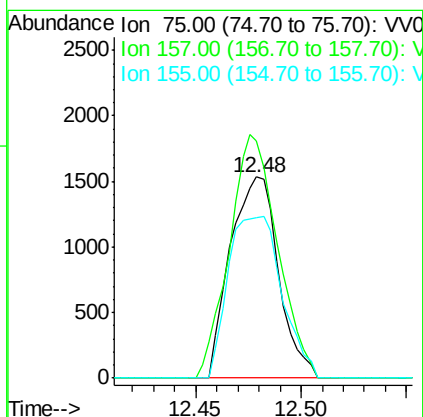
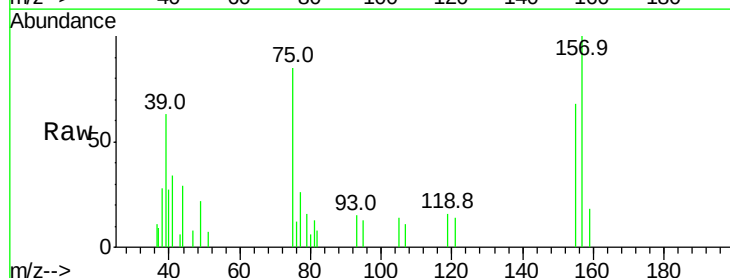
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

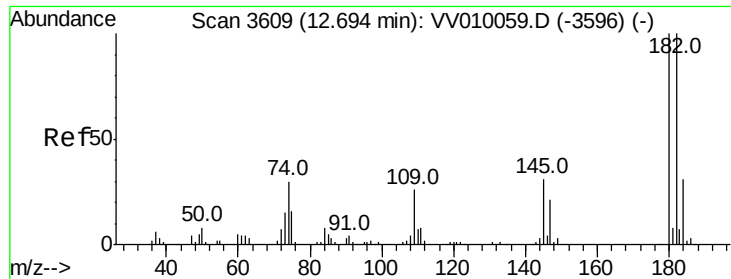
Tgt Ion:146 Resp: 40541  
 Ion Ratio Lower Upper  
 146 100  
 111 40.2 33.2 49.8  
 148 63.9 51.4 77.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.833 ug/L  
 RT: 12.48 min Scan# 3542  
 Delta R.T. 0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

Tgt Ion: 75 Resp: 2424  
 Ion Ratio Lower Upper  
 75 100  
 157 117.9 83.0 124.6  
 155 80.0 68.1 102.1

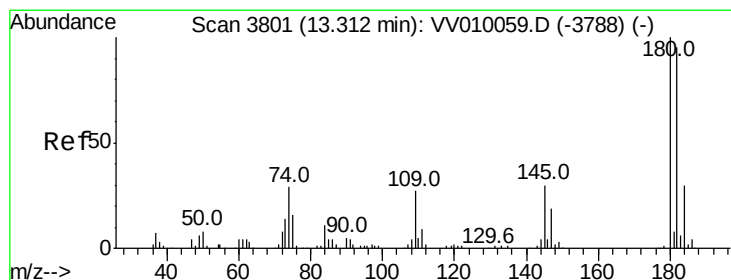
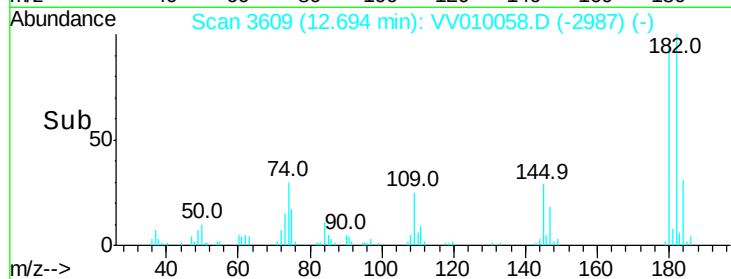
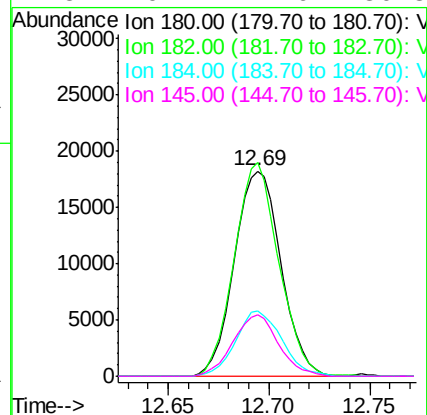
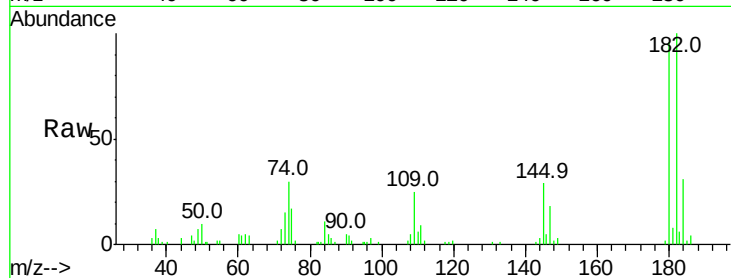




#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.074 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

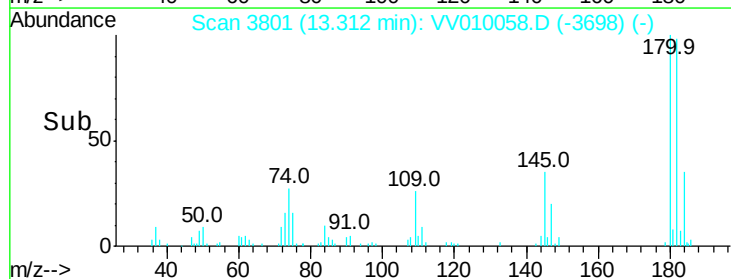
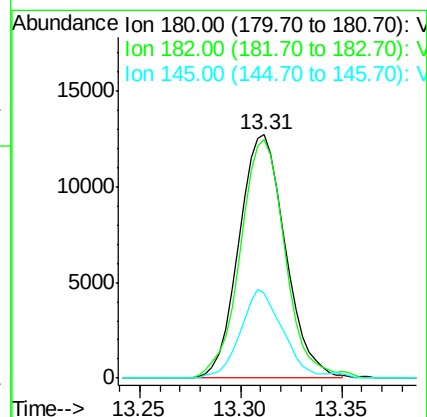
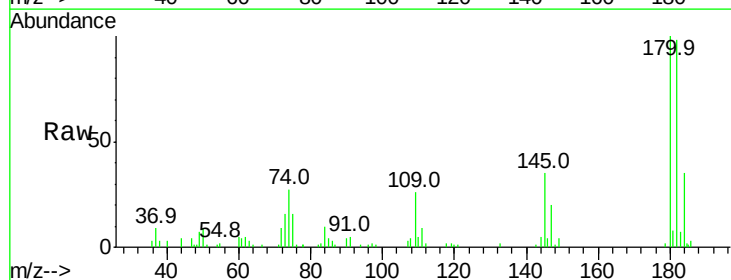
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00562

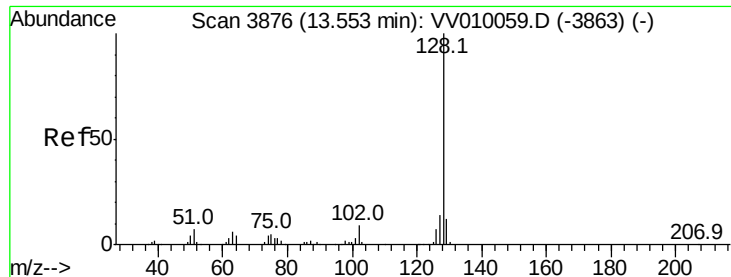
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 29501 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.4  | 77.2  | 115.8 |
| 184      | 31.6  | 23.8  | 35.6  |
| 145      | 29.2  | 24.6  | 36.8  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.842 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV010058.D  
 Acq: 02 Apr 2019 13:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 20532 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.8  | 75.7  | 113.5 |
| 145      | 32.9  | 24.6  | 37.0  |





#69

Naphthalene

Concen: 4.092 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00562

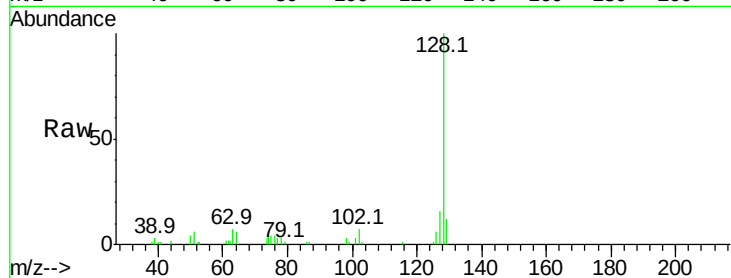
Tgt Ion:128 Resp: 27277

Ion Ratio Lower Upper

128 100

129 12.2 9.0 13.4

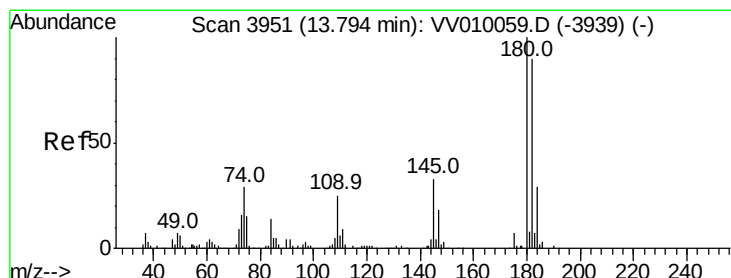
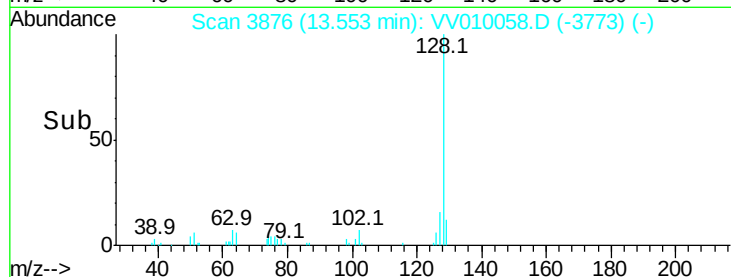
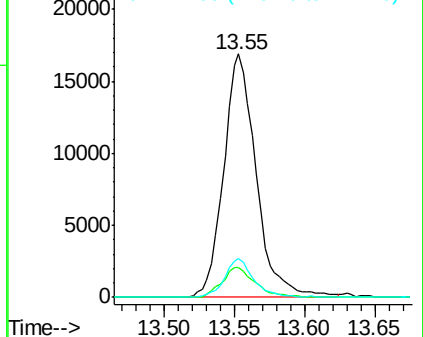
127 13.8 11.0 16.4



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: 4.780 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010058.D

Acq: 02 Apr 2019 13:12

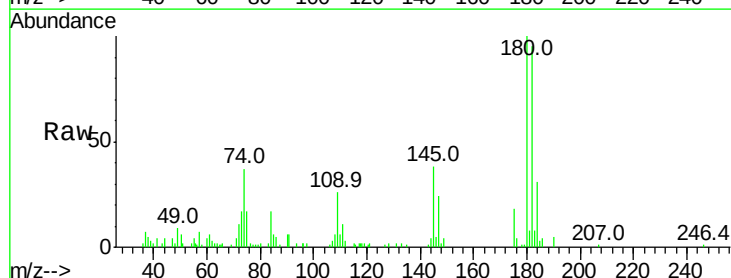
Tgt Ion:180 Resp: 18992

Ion Ratio Lower Upper

180 100

182 96.0 74.1 111.1

145 36.0 25.8 38.8



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

