

Data File : VV015016.D  
Acq On : 18 Mar 2020 14:01  
Operator : SY/MD  
Sample : VSTD01065  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

Quant Time: Mar 19 02:04:37 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 19 02:01:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 294176   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 286155   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 152190   | 50.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 14808 | 10.77 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 11634 | 10.79 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.12  | 63  | 26551 | 11.30 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.94  | 46  | 5912  | 6.24  | ug/L | 0.02 |
| 24) Chloroform-d               | 4.38  | 84  | 37192 | 10.57 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 22718 | 10.26 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 73764 | 10.86 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.10  | 67  | 21365 | 10.75 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 72361 | 10.59 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.65  | 79  | 10655 | 10.03 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.12  | 63  | 18511 | 20.22 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 32471 | 10.86 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 31891 | 10.44 | ug/L | 0.00 |

Target Compounds

|                                |      |     |       |             | Qvalue |
|--------------------------------|------|-----|-------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 28910 | 11.496 ug/L | 98     |
| 3) Chloromethane               | 1.25 | 50  | 18546 | 10.848 ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 17995 | 10.884 ug/L | 100    |
| 6) Bromomethane                | 1.53 | 94  | 11729 | 10.933 ug/L | 100    |
| 8) Chloroethane                | 1.60 | 64  | 10505 | 11.792 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 29974 | 11.395 ug/L | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 14617 | 11.554 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 13012 | 10.869 ug/L | 82     |
| 13) Acetone                    | 2.20 | 43  | 7619  | 9.962 ug/L  | 76     |
| 14) Carbon disulfide           | 2.31 | 76  | 45644 | 10.760 ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 13776 | 10.445 ug/L | 97     |
| 16) Methylene chloride         | 2.53 | 84  | 20789 | 10.958 ug/L | 96     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 19995 | 11.127 ug/L | 89     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 60548 | 10.946 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 34533 | 11.184 ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 3.95 | 96  | 21870 | 10.890 ug/L | 98     |
| 22) 2-Butanone                 | 4.03 | 43  | 8332  | 7.902 ug/L  | 79     |
| 23) Bromochloromethane         | 4.27 | 128 | 5177  | 4.743 ug/L  | 94     |
| 25) Chloroform                 | 4.41 | 83  | 38837 | 11.247 ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 29082 | 11.278 ug/L | 99     |
| 29) Cyclohexane                | 4.70 | 56  | 28477 | 11.084 ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 4.64 | 97  | 34832 | 11.283 ug/L | 98     |
| 31) Carbon tetrachloride       | 4.85 | 117 | 30893 | 11.136 ug/L | 100    |
| 33) Benzene                    | 5.13 | 78  | 79514 | 11.351 ug/L | 100    |
| 34) Trichloroethene            | 5.94 | 95  | 21324 | 11.237 ug/L | 99     |
| 35) Methylcyclohexane          | 6.16 | 83  | 34022 | 11.298 ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 18609 | 10.985 ug/L | 98     |
| 38) Bromodichloromethane       | 6.54 | 83  | 27709 | 11.216 ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 28296 | 9.976 ug/L  | 95     |
| 40) 4-Methyl-2-pentanone       | 7.26 | 43  | 51490 | 21.943 ug/L | 98     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 19 02:01:59 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 87340    | 11.029 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.68  | 75   | 25895    | 10.078 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 20146    | 10.909 | ug/L  | 95       |
| 46) Tetrachloroethene          | 8.00  | 164  | 20118    | 11.165 | ug/L  | 95       |
| 48) 2-Hexanone                 | 8.17  | 43   | 38887    | 22.185 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.27  | 129  | 23138    | 10.781 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.38  | 107  | 23298    | 11.304 | ug/L  | 93       |
| 51) Chlorobenzene              | 8.90  | 112  | 62290    | 11.188 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.04  | 91   | 100803   | 11.206 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 38127    | 10.827 | ug/L  | 99       |
| 54) o-xylene                   | 9.57  | 106  | 38245    | 10.967 | ug/L  | 96       |
| 55) Styrene                    | 9.58  | 104  | 62196    | 10.619 | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.95  | 105  | 99428    | 10.947 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 33896    | 11.285 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 27267    | 11.453 | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 15158    | 10.073 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 50956    | 11.123 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 52984    | 11.112 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 55612    | 11.429 | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7216     | 10.612 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 38784    | 10.701 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 34916    | 10.461 | ug/L  | 97       |
| 69) Naphthalene                | 13.52 | 128  | 40973    | 9.402  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 33546    | 10.230 | ug/L  | 98       |

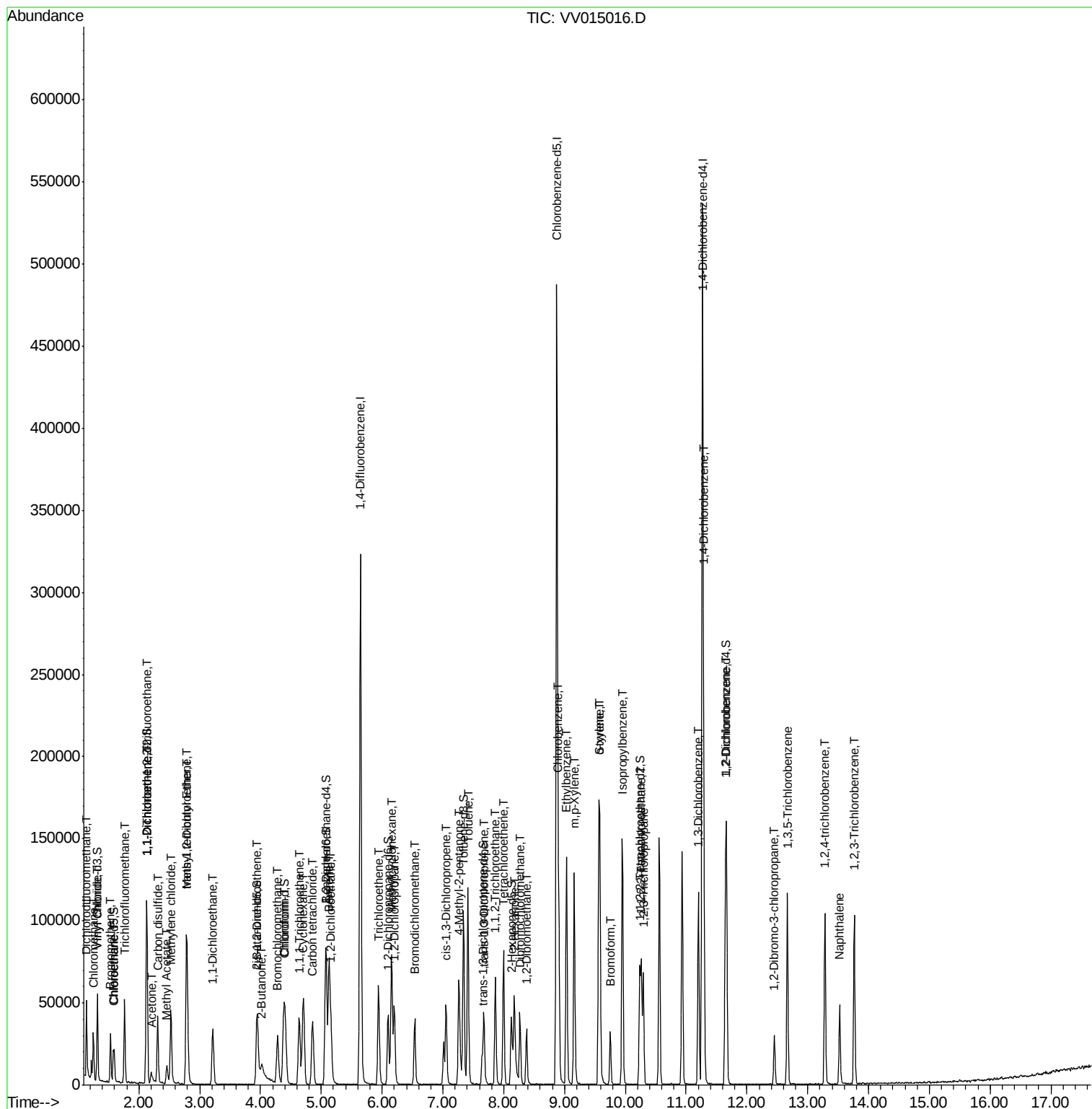
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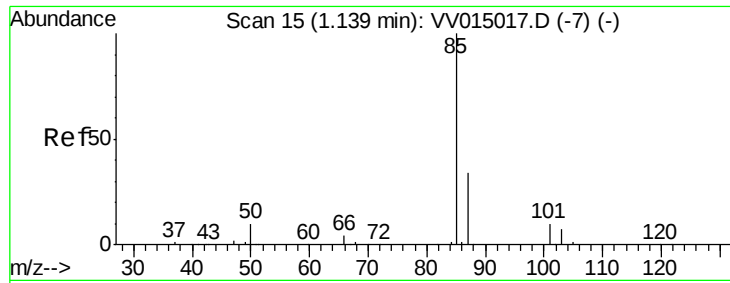
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VSTD01065

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 11.496 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

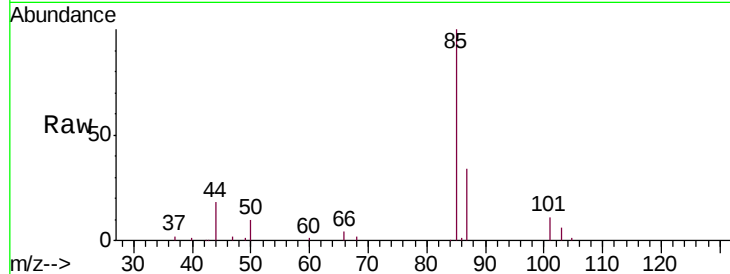
VSTD01065

Tgt Ion: 85 Resp: 28910

Ion Ratio Lower Upper

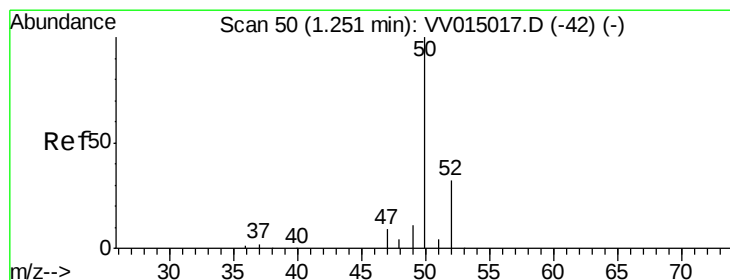
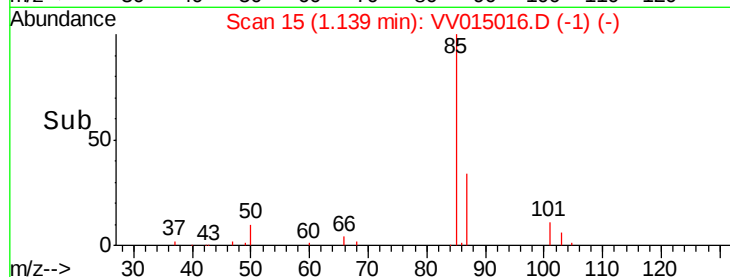
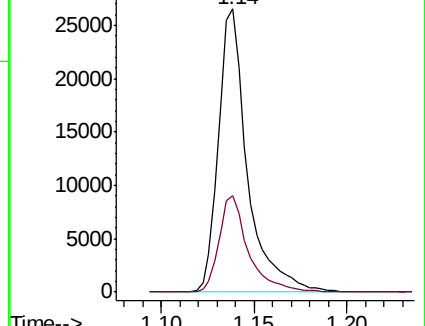
85 100

87 34.3 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VV015017.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV015017.D (-7) (-)



#3

Chloromethane

Concen: 10.848 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV015016.D

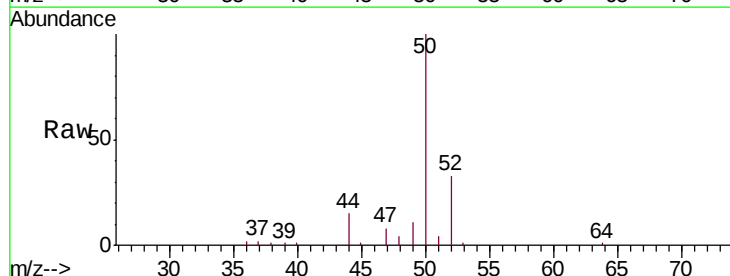
Acq: 18 Mar 2020 14:01

Tgt Ion: 50 Resp: 18546

Ion Ratio Lower Upper

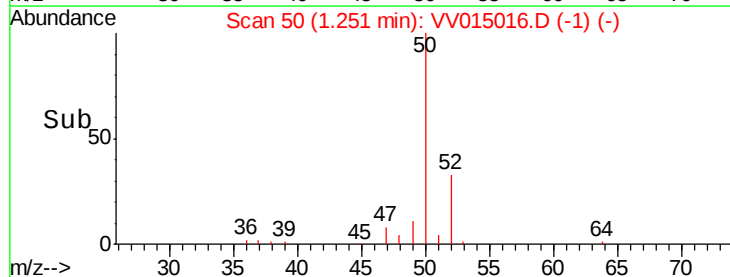
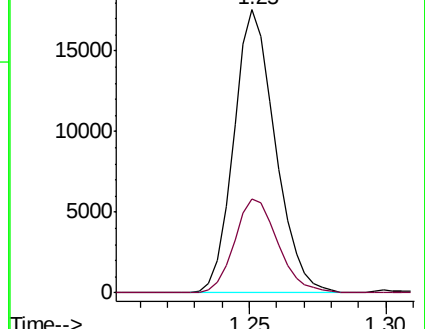
50 100

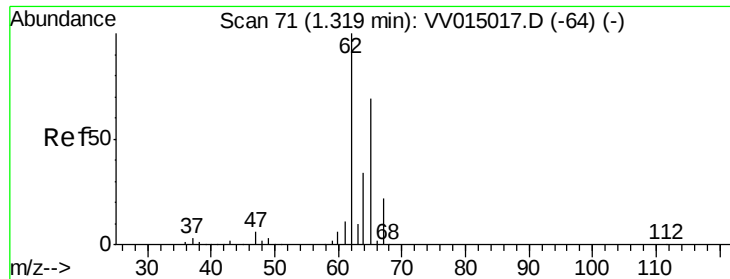
52 33.3 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV015017.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV015017.D (-42) (-)





#5

Vinyl chloride

Concen: 10.884 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

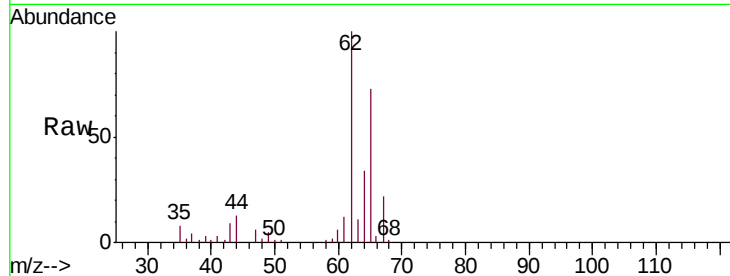
VSTD01065

Tgt Ion: 62 Resp: 17995

Ion Ratio Lower Upper

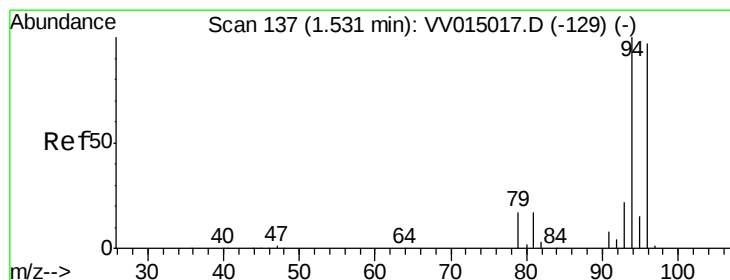
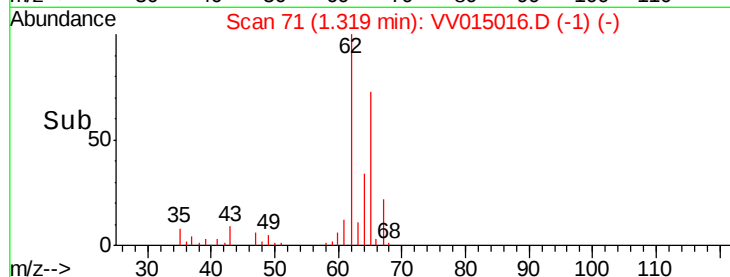
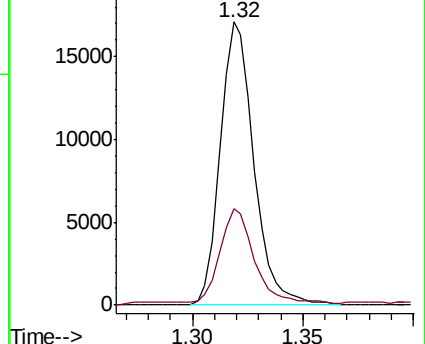
62 100

64 34.1 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VV015017.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV015016.D (-44) (-)



#6

Bromomethane

Concen: 10.933 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV015016.D

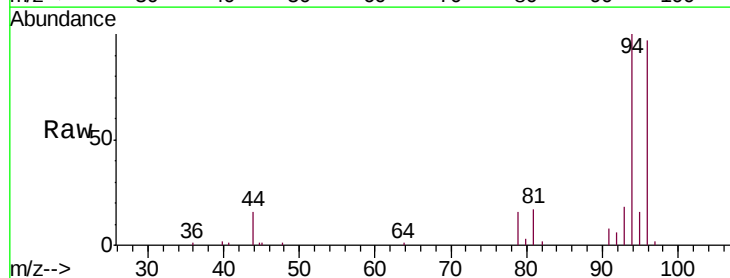
Acq: 18 Mar 2020 14:01

Tgt Ion: 94 Resp: 11729

Ion Ratio Lower Upper

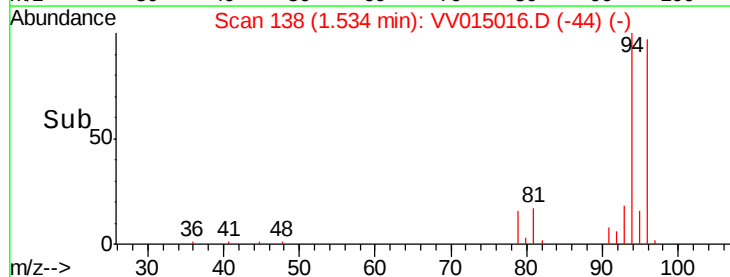
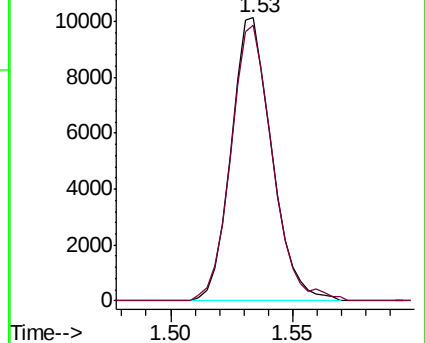
94 100

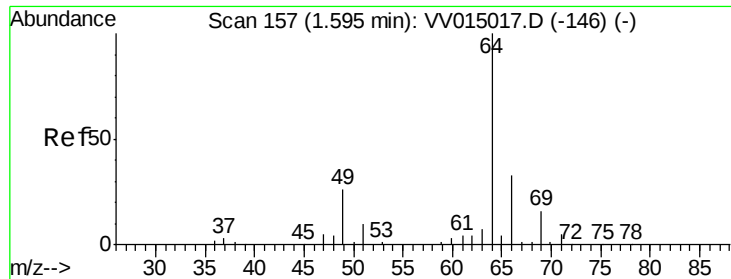
96 97.2 67.8 126.0



Abundance Ion 94.00 (93.70 to 94.70): VV015017.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV015016.D (-44) (-)

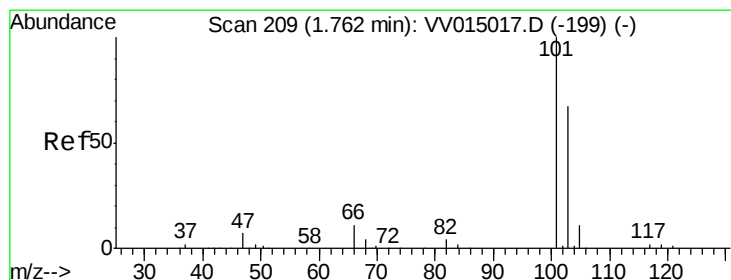
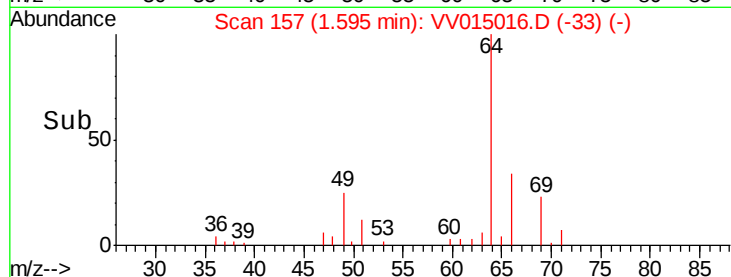
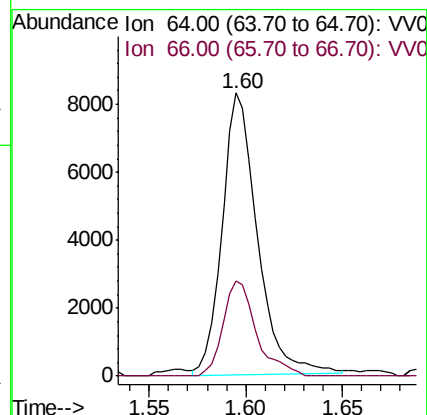
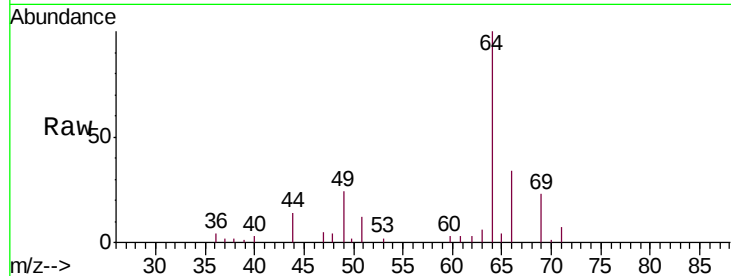




#8  
Chloroethane  
Concen: 11.792 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

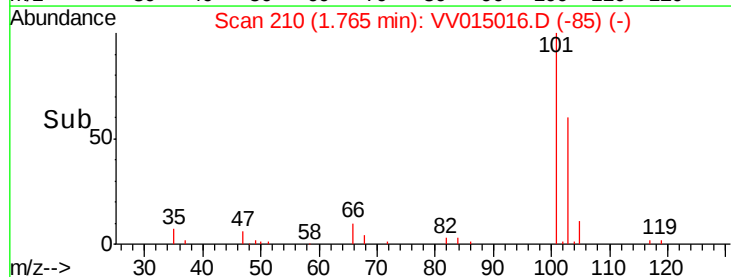
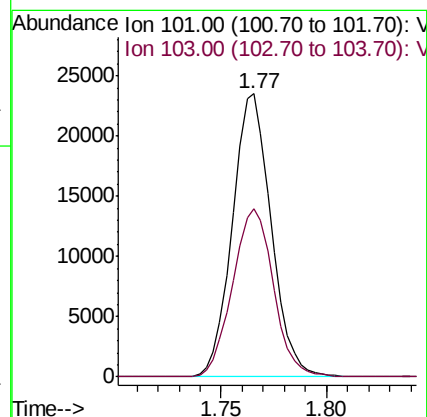
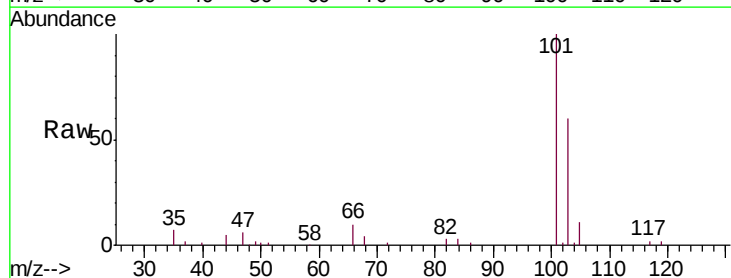
Instrument :  
MSVOA\_V  
ClientSampleId :  
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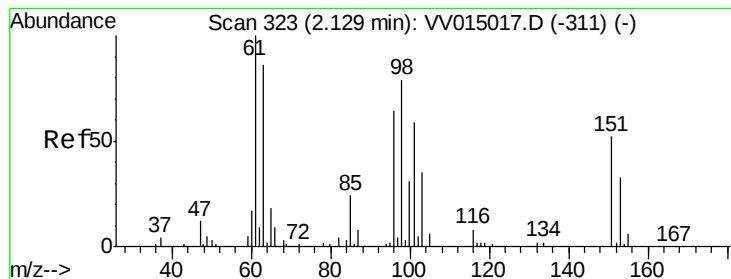
Tgt Ion: 64 Resp: 10505  
Ion Ratio Lower Upper  
64 100  
66 33.6 23.2 43.0



#9  
Trichlorofluoromethane  
Concen: 11.395 ug/L  
RT: 1.77 min Scan# 210  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion: 101 Resp: 29974  
Ion Ratio Lower Upper  
101 100  
103 62.5 53.4 80.2





#10

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

Concen: 11.554 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

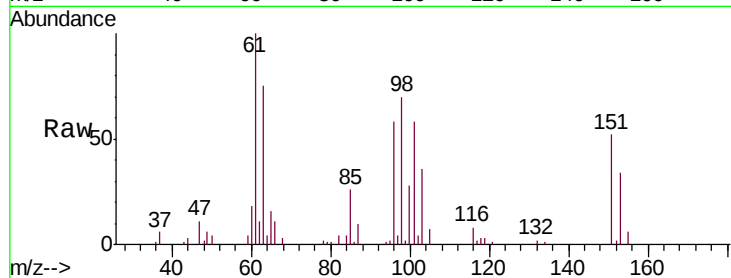
Tgt Ion: 101 Resp: 14617

Ion Ratio Lower Upper

101 100

85 44.5 33.2 49.8

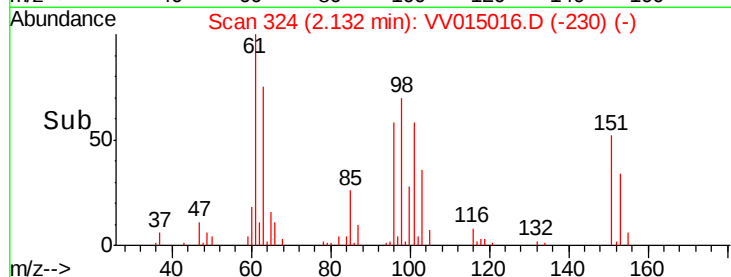
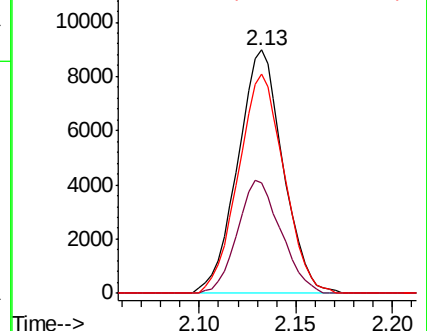
151 90.8 72.6 109.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 10.869 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

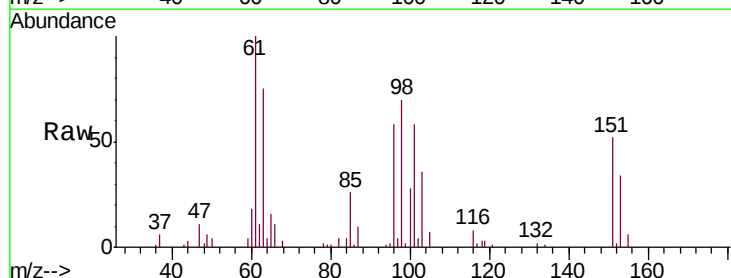
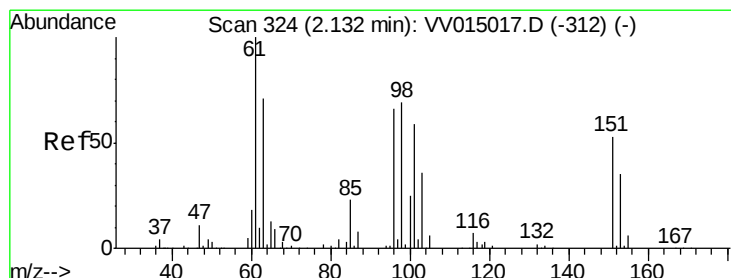
Tgt Ion: 96 Resp: 13012

Ion Ratio Lower Upper

96 100

61 171.7 105.6 196.2

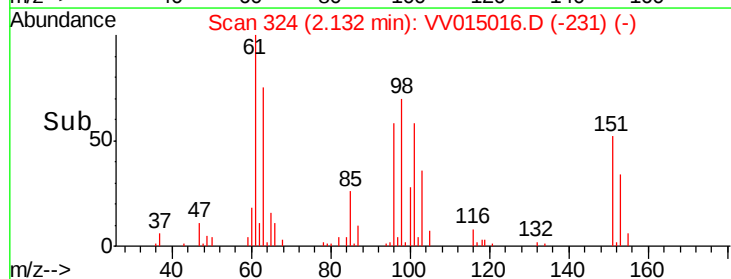
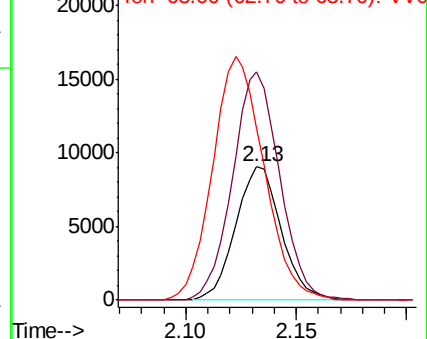
63 128.9 75.9 140.9

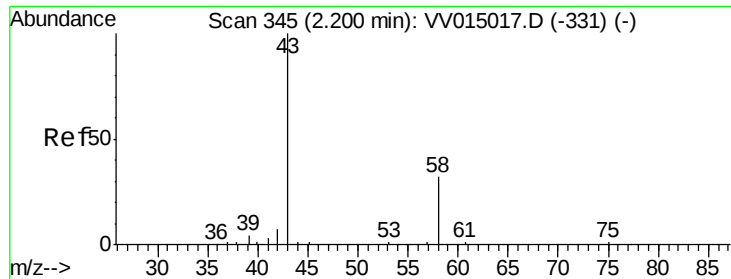


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

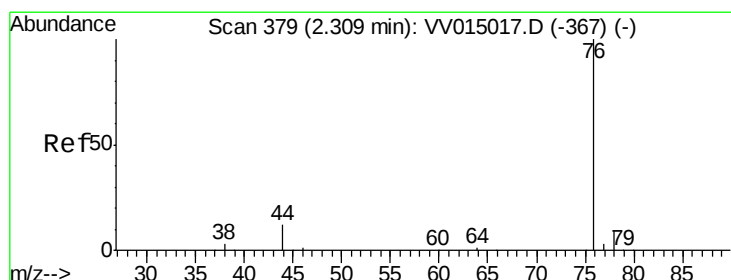
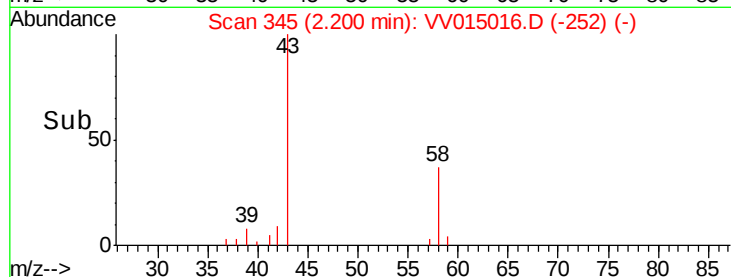
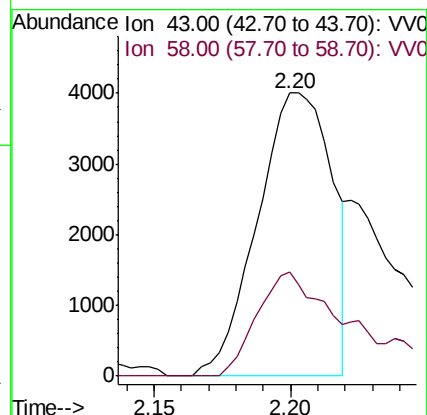
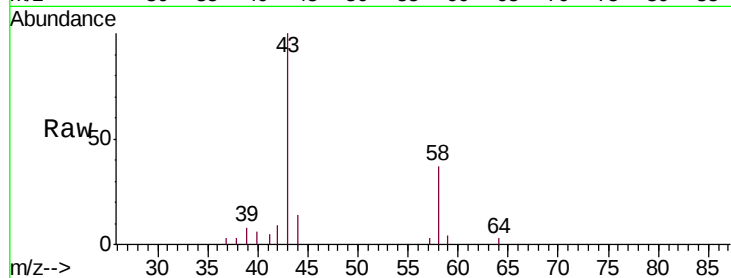




#13  
Acetone  
Concen: 9.962 ug/L  
RT: 2.20 min Scan# 345  
Delta R.T. -0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

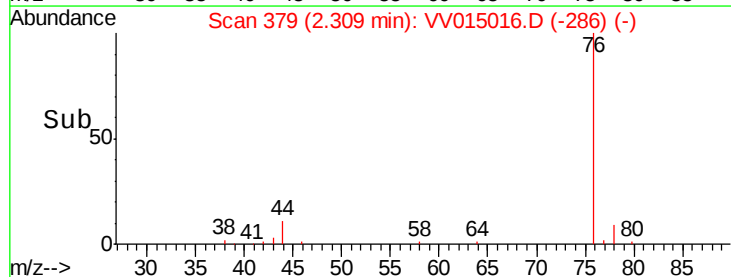
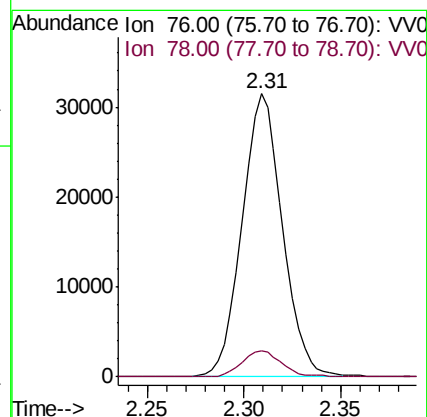
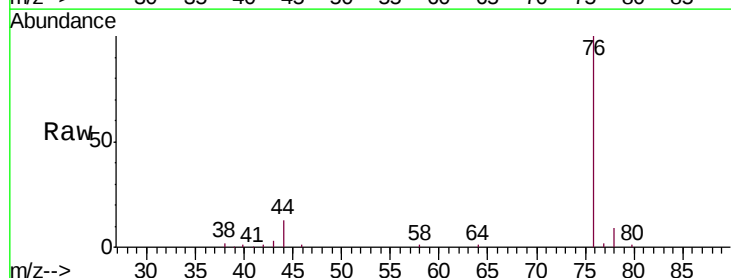
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

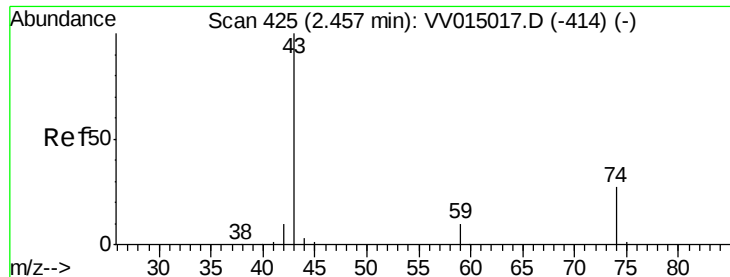
Tgt Ion: 43 Resp: 7619  
Ion Ratio Lower Upper  
43 100  
58 33.0 0.0 43.2



#14  
Carbon disulfide  
Concen: 10.760 ug/L  
RT: 2.31 min Scan# 379  
Delta R.T. -0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion: 76 Resp: 45644  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7





#15

Methyl Acetate

Concen: 10.445 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

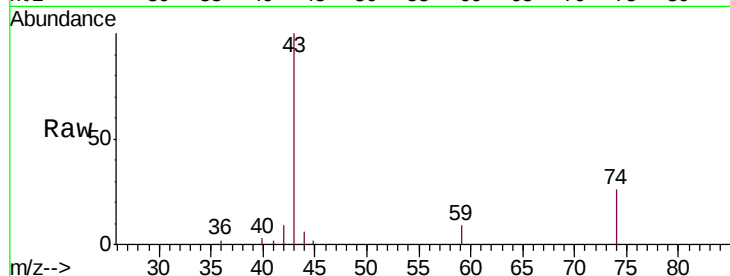
VSTD01065

Tgt Ion: 43 Resp: 13776

Ion Ratio Lower Upper

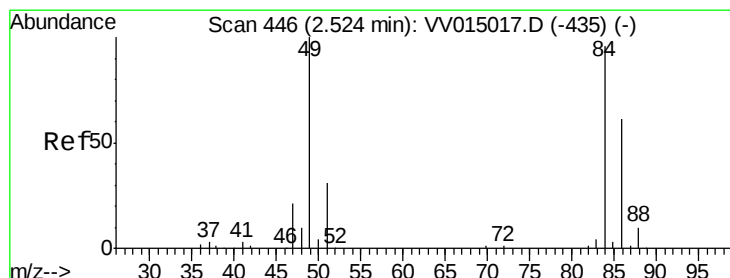
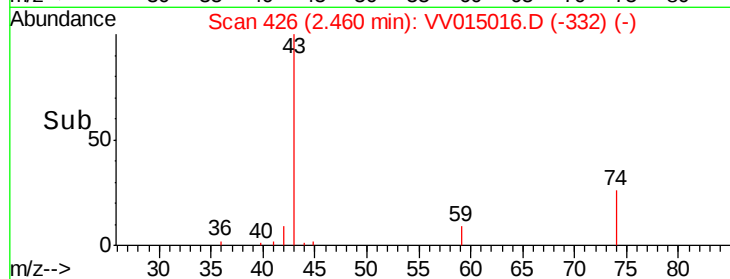
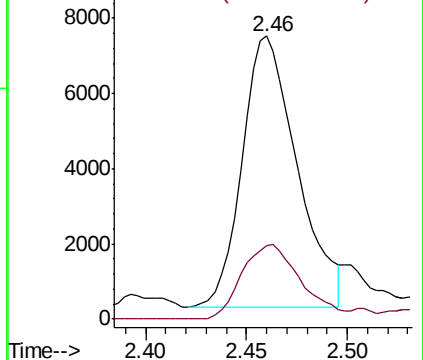
43 100

74 29.4 22.2 33.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 10.958 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

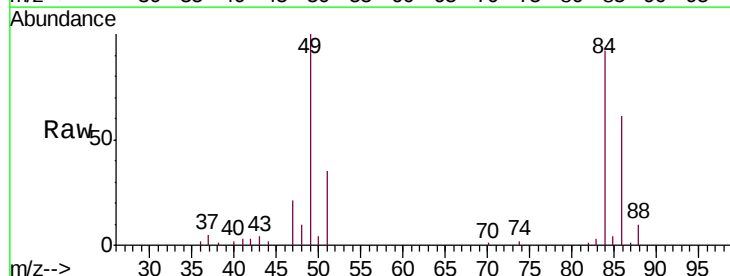
Tgt Ion: 84 Resp: 20789

Ion Ratio Lower Upper

84 100

86 65.9 44.5 82.7

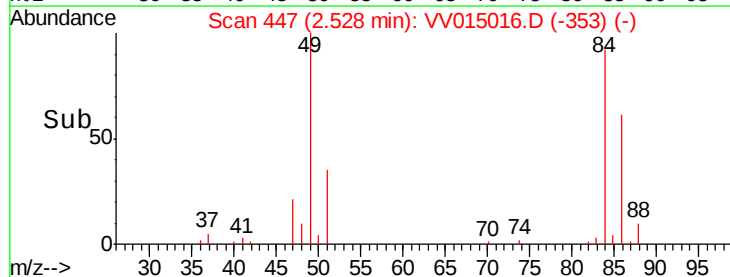
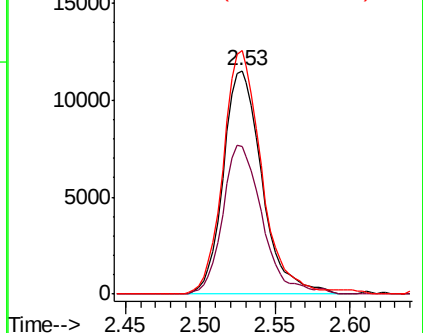
49 108.9 72.9 135.5

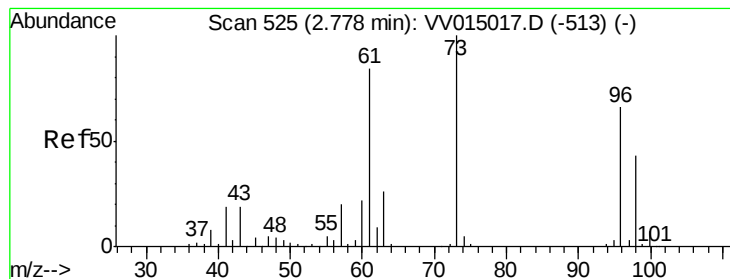


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 11.127 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

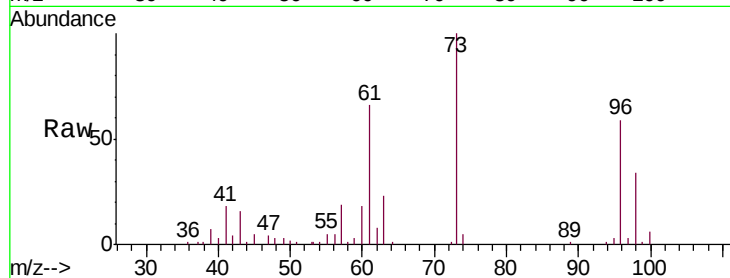
Tgt Ion: 96 Resp: 19995

Ion Ratio Lower Upper

96 100

61 112.3 89.0 165.4

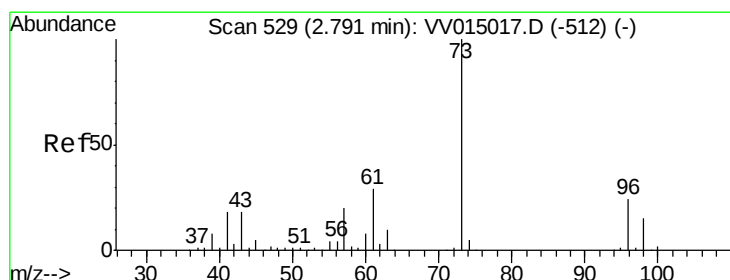
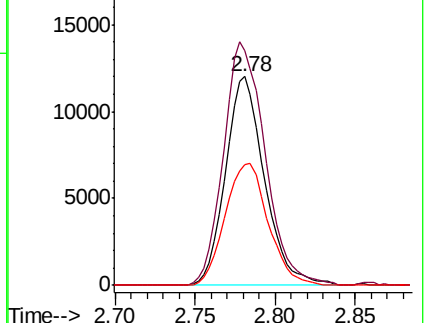
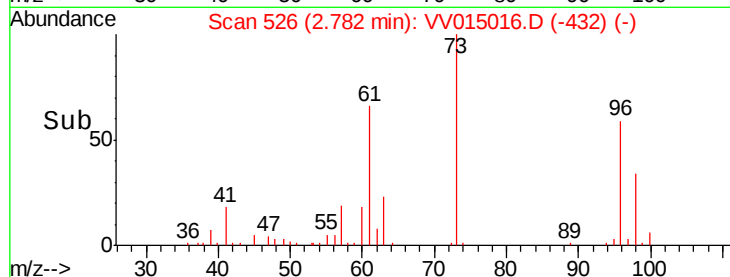
98 57.8 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV015016.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV015016.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV015016.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 10.946 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

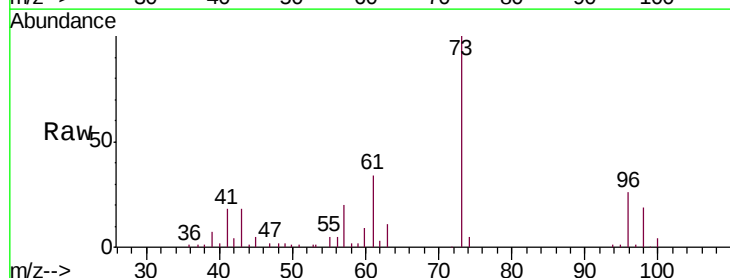
Tgt Ion: 73 Resp: 60548

Ion Ratio Lower Upper

73 100

43 18.3 14.4 21.6

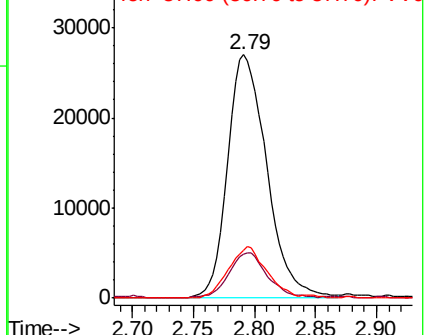
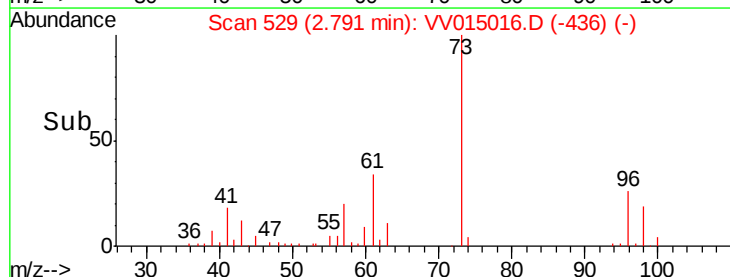
57 20.4 16.0 24.0

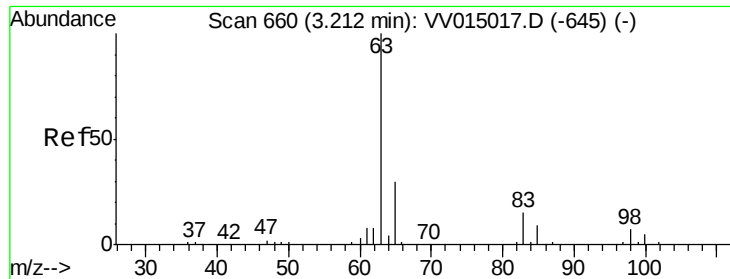


Abundance Ion 73.00 (72.70 to 73.70): VV015016.D (-436) (-)

Ion 43.00 (42.70 to 43.70): VV015016.D (-436) (-)

Ion 57.00 (56.70 to 57.70): VV015016.D (-436) (-)

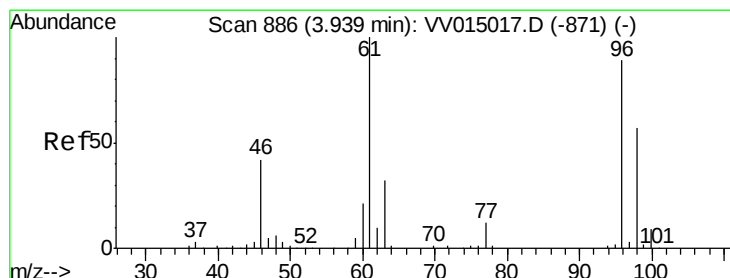
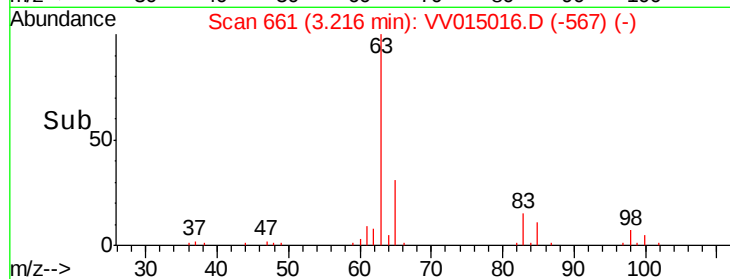
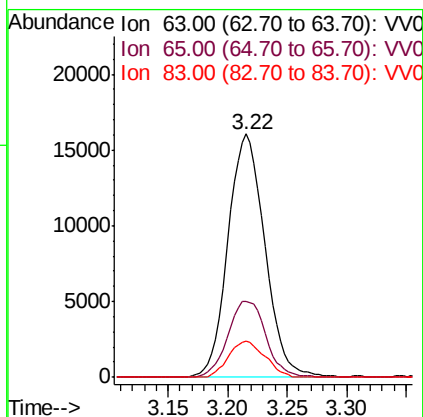
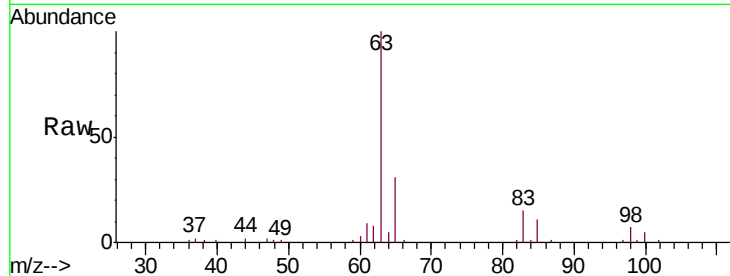




#19  
 1,1-Dichloroethane  
 Concen: 11.184 ug/L  
 RT: 3.22 min Scan# 661  
 Delta R.T. 0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

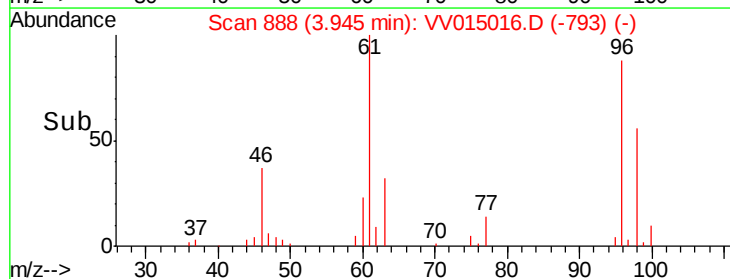
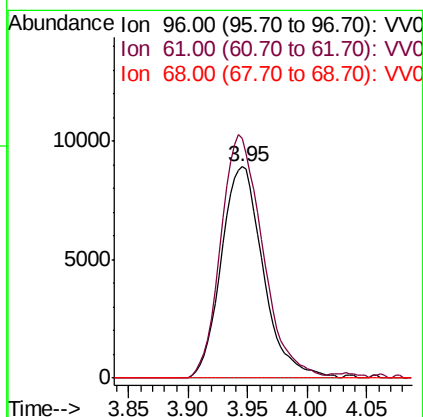
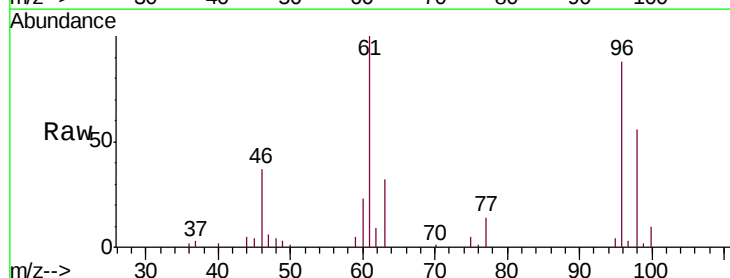
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

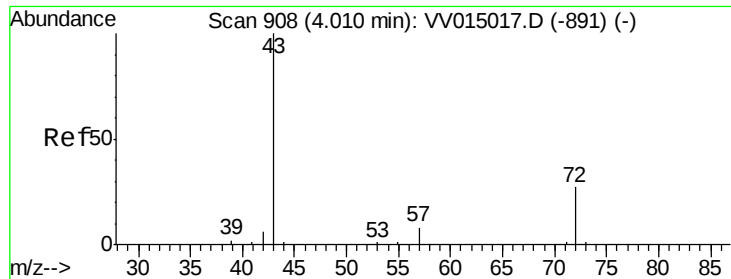
Tgt Ion: 63 Resp: 34533  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 21.0 39.0  
 83 14.7 10.3 19.1



#20  
 cis-1,2-Dichloroethene  
 Concen: 10.890 ug/L  
 RT: 3.95 min Scan# 888  
 Delta R.T. 0.01 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Tgt Ion: 96 Resp: 21870  
 Ion Ratio Lower Upper  
 96 100  
 61 113.6 78.3 145.3  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 7.902 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampled :

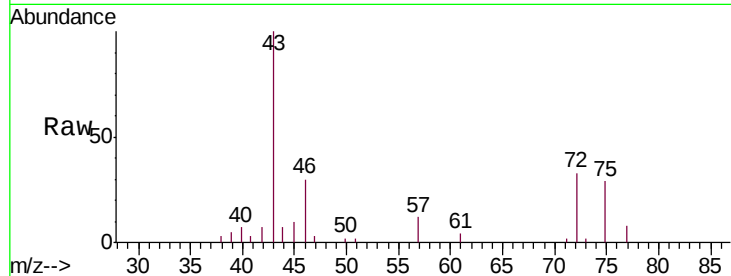
VSTD01065

Tgt Ion: 43 Resp: 8332

Ion Ratio Lower Upper

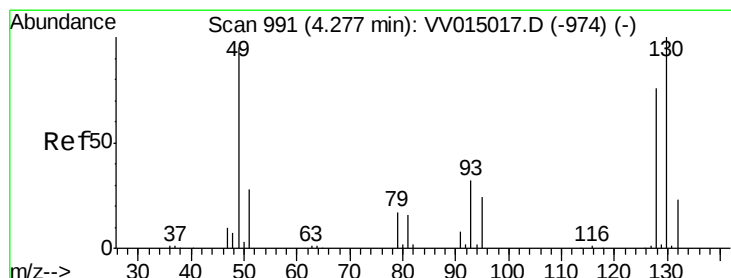
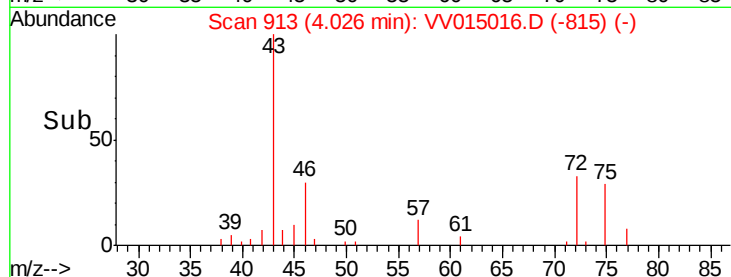
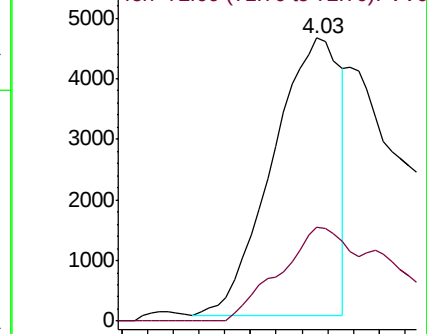
43 100

72 35.4 12.4 37.2



Abundance Ion 43.00 (42.70 to 43.70): VV015017.D (-891) (-)

Ion 72.00 (71.70 to 72.70): VV015017.D (-891) (-)



#23

Bromochloromethane

Concen: 4.743 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Tgt Ion: 128 Resp: 5177

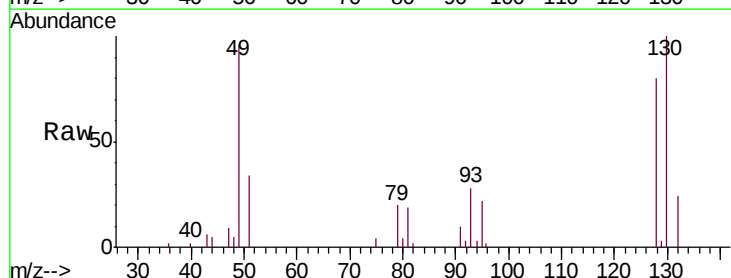
Ion Ratio Lower Upper

128 100

49 120.6 87.9 163.3

130 125.7 92.5 171.9

51 42.7 29.7 44.5

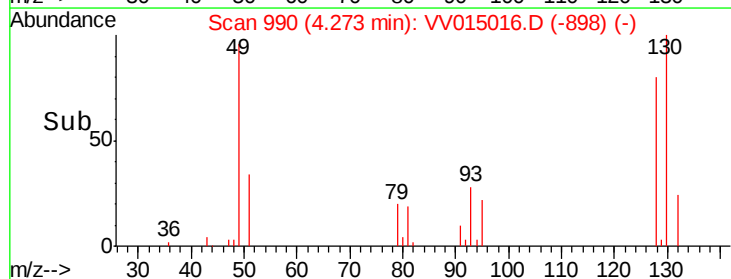
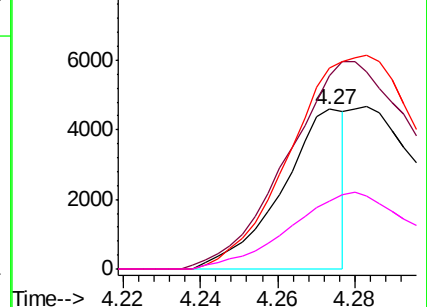


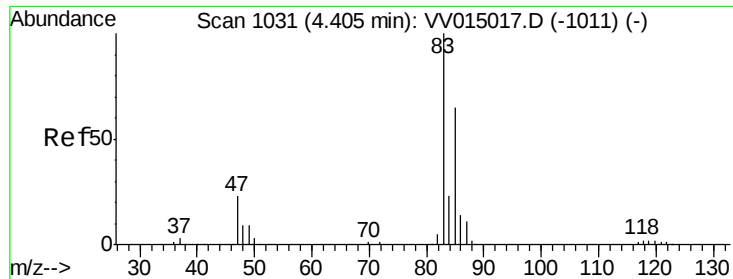
Abundance Ion 128.00 (127.70 to 128.70): VV015017.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VV015017.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VV015017.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VV015017.D (-974) (-)

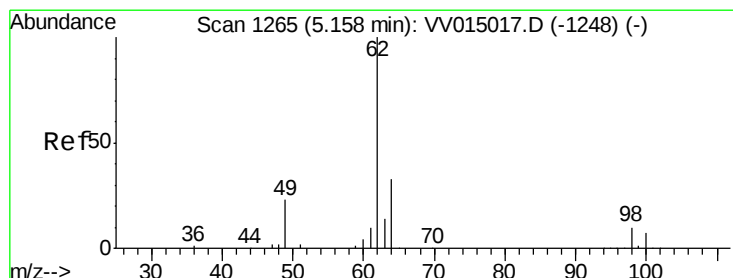
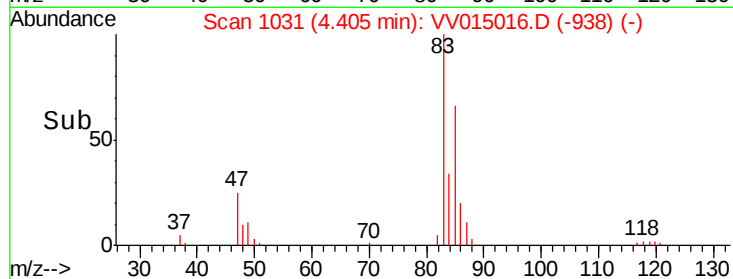
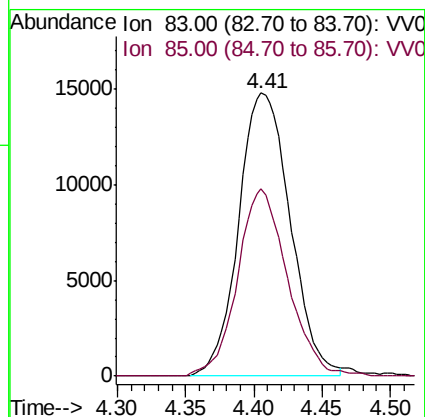
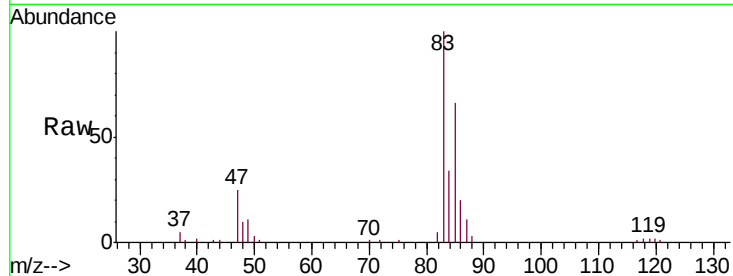




#25  
Chloroform  
Concen: 11.247 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

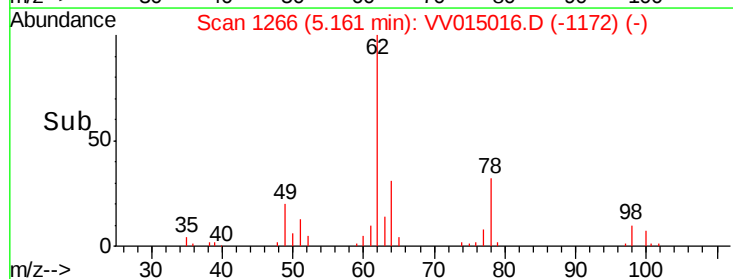
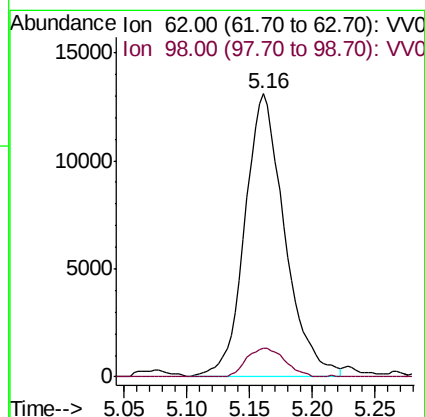
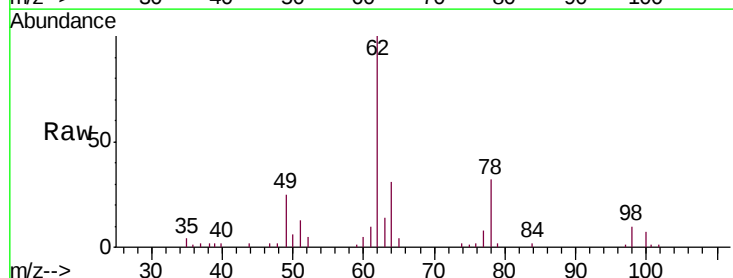
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

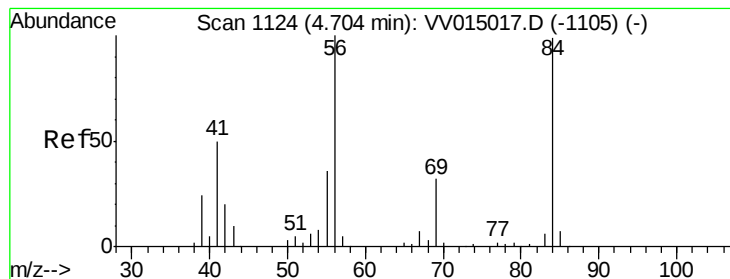
Tgt Ion: 83 Resp: 38837  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 11.278 ug/L  
RT: 5.16 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion: 62 Resp: 29082  
Ion Ratio Lower Upper  
62 100  
98 10.3 7.8 11.8





#29

Cyclohexane

Concen: 11.084 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

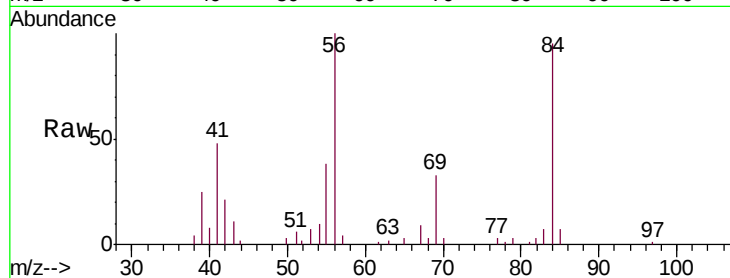
Tgt Ion: 56 Resp: 28477

Ion Ratio Lower Upper

56 100

69 32.4 25.8 38.6

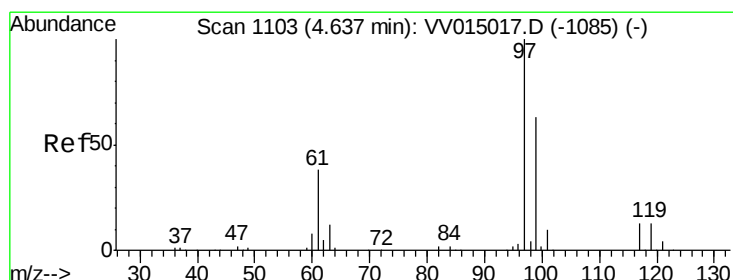
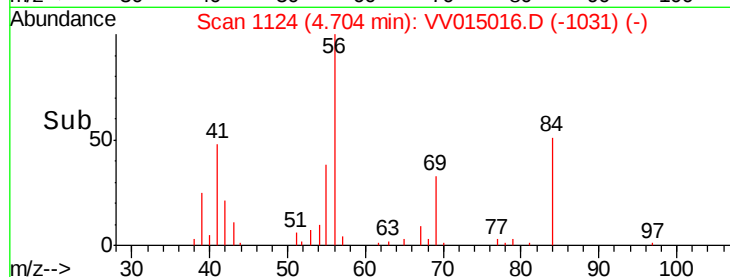
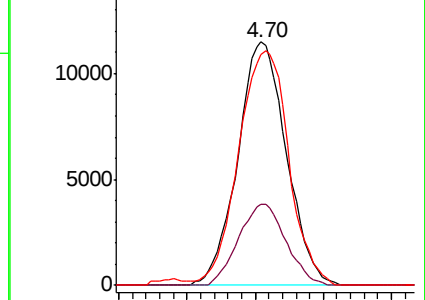
84 99.5 80.0 120.0



Abundance Ion 56.00 (55.70 to 56.70): VV015017.D (-1105) (-)

Ion 69.00 (68.70 to 69.70): VV015017.D (-1105) (-)

Ion 84.00 (83.70 to 84.70): VV015017.D (-1105) (-)



#30

1,1,1-Trichloroethane

Concen: 11.283 ug/L

RT: 4.64 min Scan# 1104

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

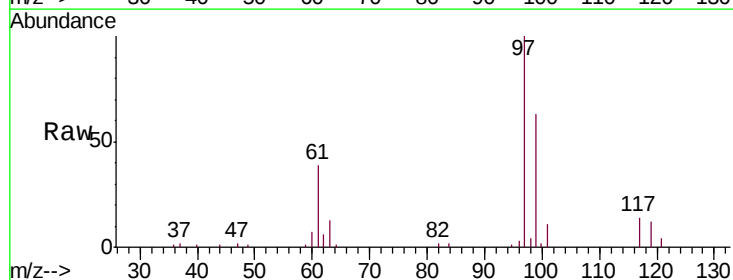
Tgt Ion: 97 Resp: 34832

Ion Ratio Lower Upper

97 100

99 62.3 51.1 76.7

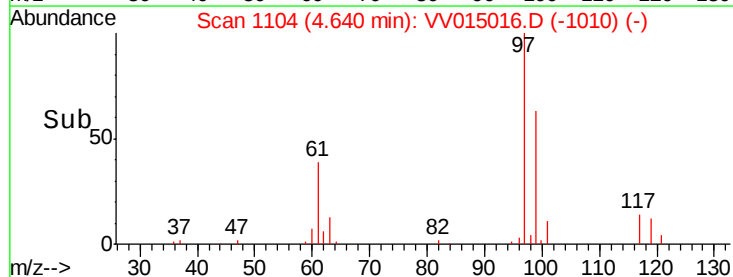
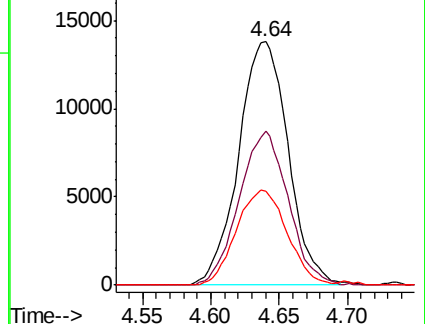
61 40.0 30.5 45.7

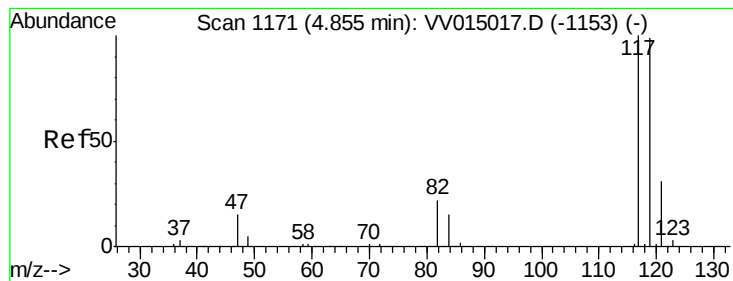


Abundance Ion 97.00 (96.70 to 97.70): VV015017.D (-1085) (-)

Ion 99.00 (98.70 to 99.70): VV015017.D (-1085) (-)

Ion 61.05 (60.75 to 61.75): VV015017.D (-1085) (-)





#31

Carbon tetrachloride

Concen: 11.136 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

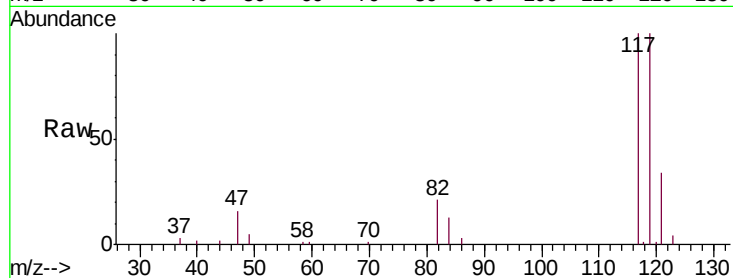
VSTD01065

Tgt Ion:117 Resp: 30893

Ion Ratio Lower Upper

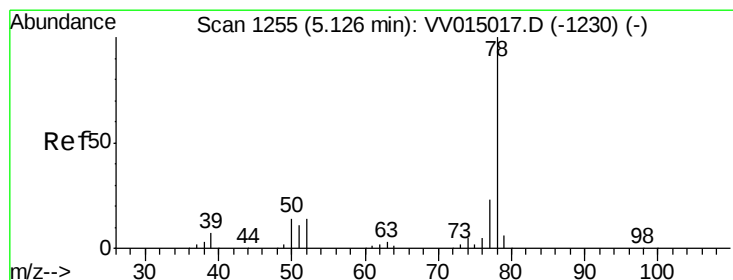
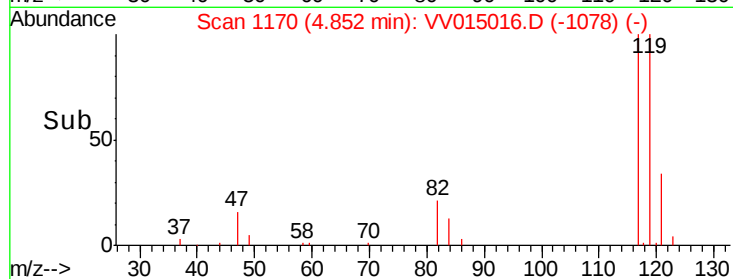
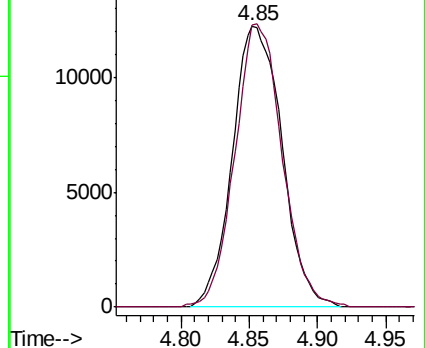
117 100

119 96.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 11.351 ug/L

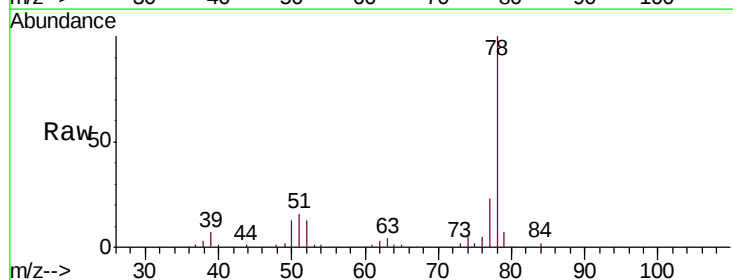
RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

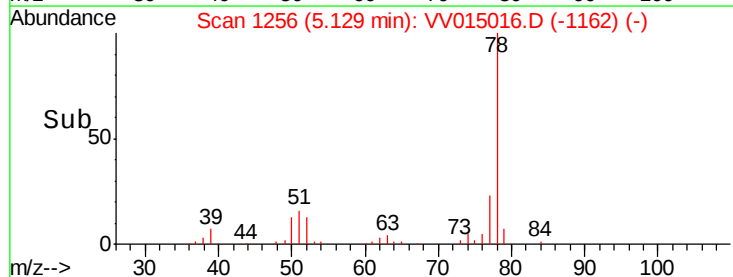
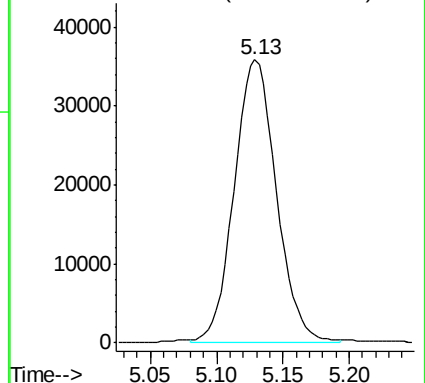
Lab File: VV015016.D

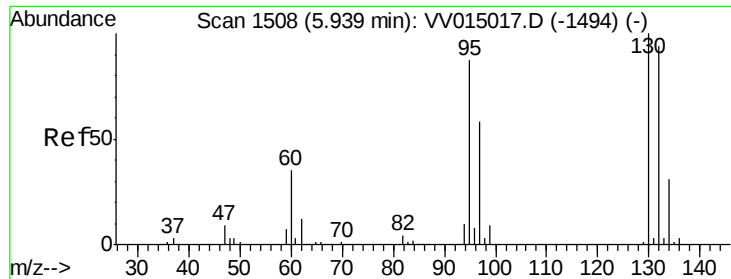
Acq: 18 Mar 2020 14:01

Tgt Ion: 78 Resp: 79514



Abundance Ion 78.00 (77.70 to 78.70): VV0

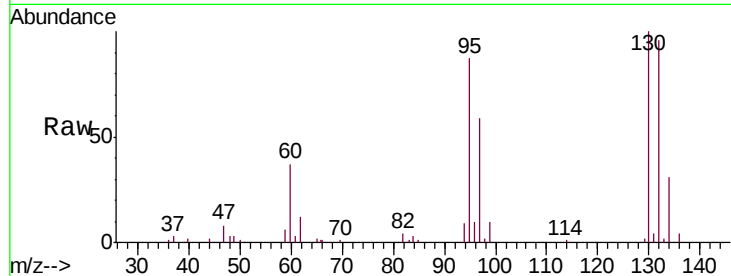




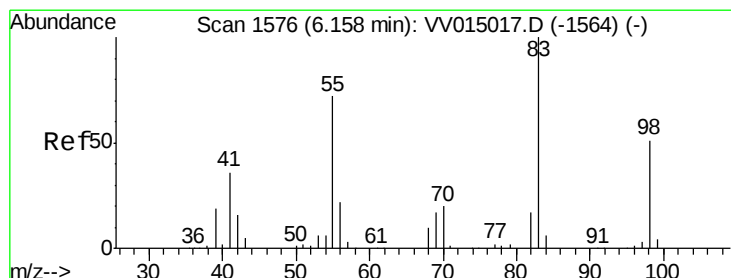
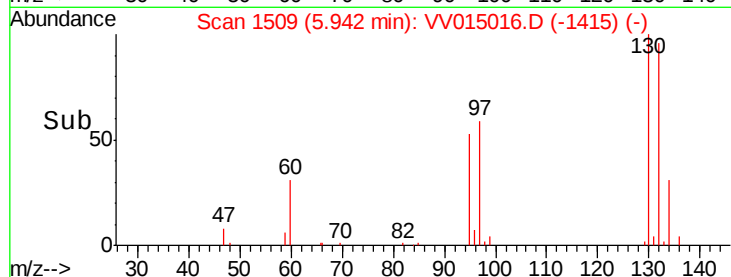
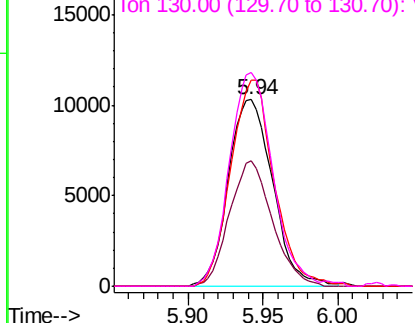
#34  
 Trichloroethene  
 Concen: 11.237 ug/L  
 RT: 5.94 min Scan# 1509  
 Delta R.T. 0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

Tgt Ion: 95 Resp: 21324  
 Ion Ratio Lower Upper  
 95 100  
 97 67.4 46.8 87.0  
 132 110.0 76.2 141.4  
 130 114.3 80.8 150.2

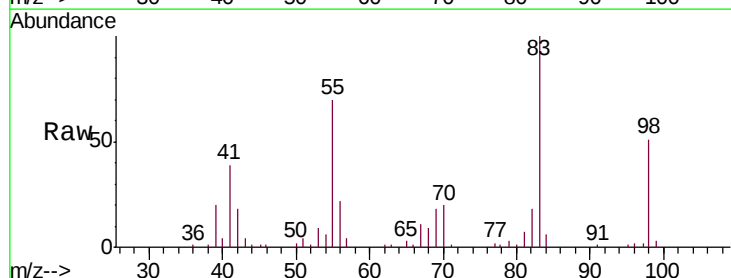


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

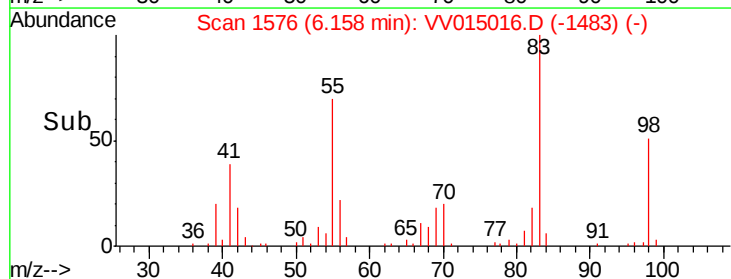
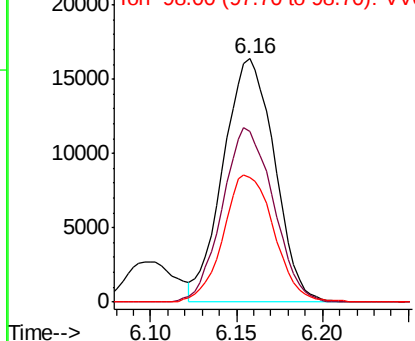


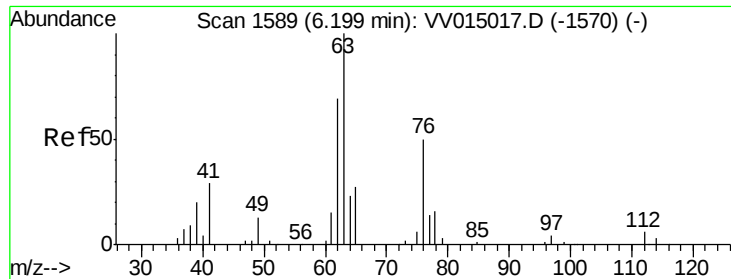
#35  
 Methylcyclohexane  
 Concen: 11.298 ug/L  
 RT: 6.16 min Scan# 1576  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Tgt Ion: 83 Resp: 34022  
 Ion Ratio Lower Upper  
 83 100  
 55 71.1 55.4 83.0  
 98 51.4 40.6 61.0



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

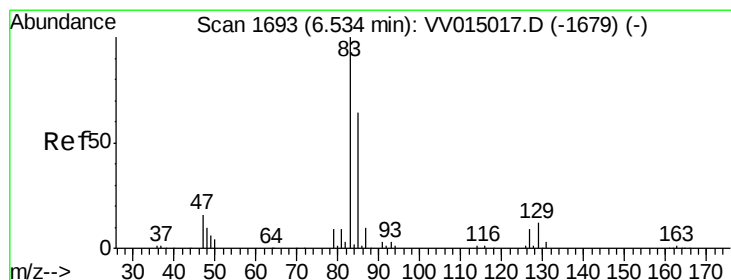
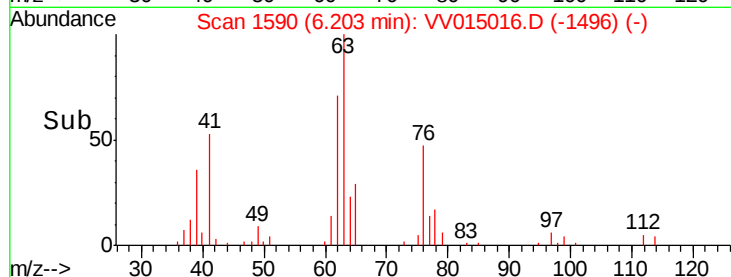
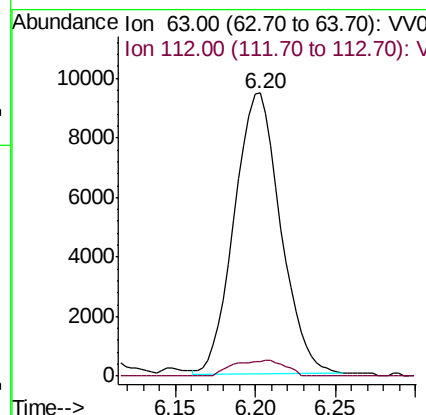
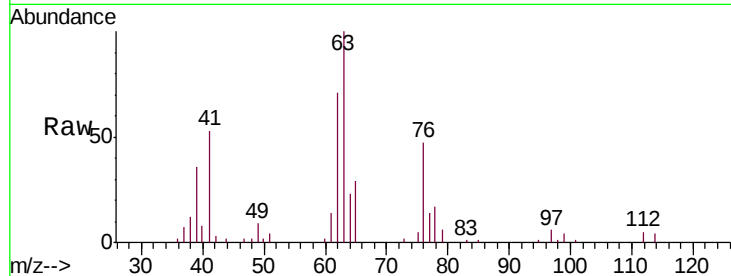




#37  
 1,2-Dichloropropane  
 Concen: 10.985 ug/L  
 RT: 6.20 min Scan# 1590  
 Delta R.T. 0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

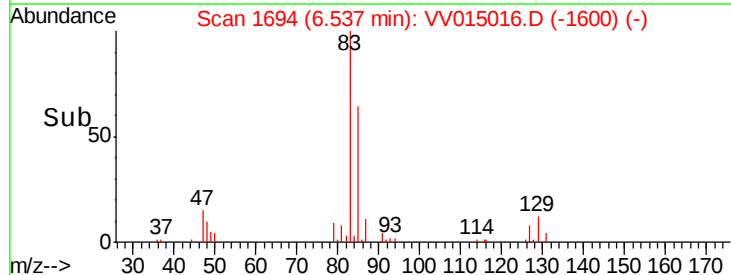
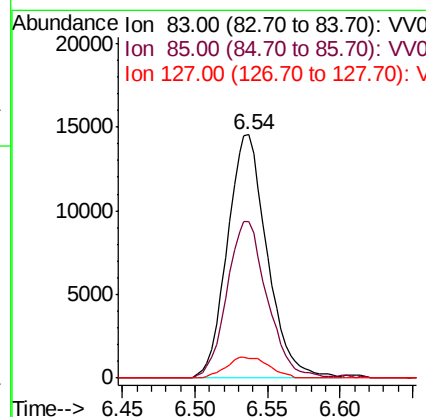
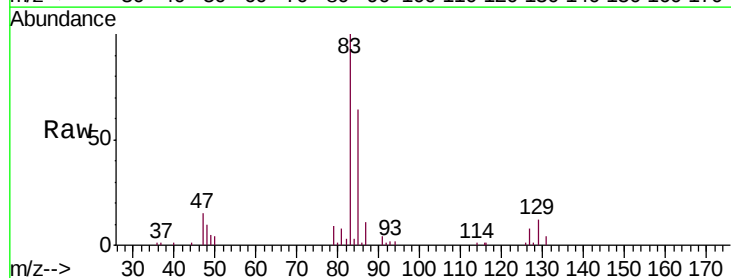
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

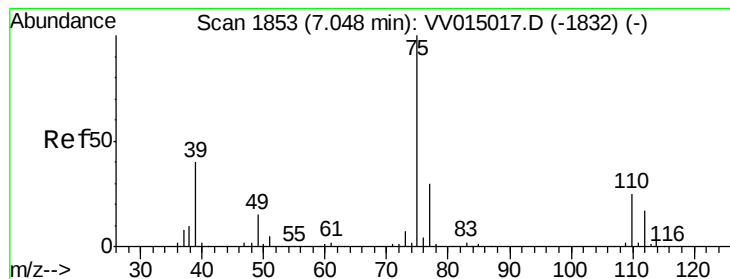
Tgt Ion: 63 Resp: 18609  
 Ion Ratio Lower Upper  
 63 100  
 112 6.3 4.4 6.6



#38  
 Bromodichloromethane  
 Concen: 11.216 ug/L  
 RT: 6.54 min Scan# 1694  
 Delta R.T. 0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Tgt Ion: 83 Resp: 27709  
 Ion Ratio Lower Upper  
 83 100  
 85 64.3 44.6 82.8  
 127 8.0 7.4 11.2



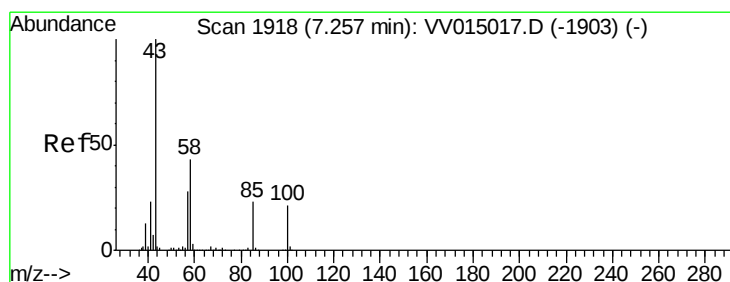
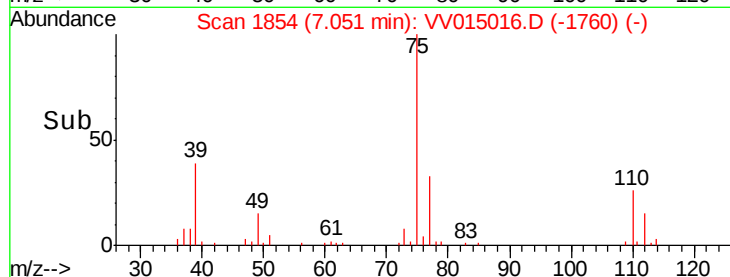
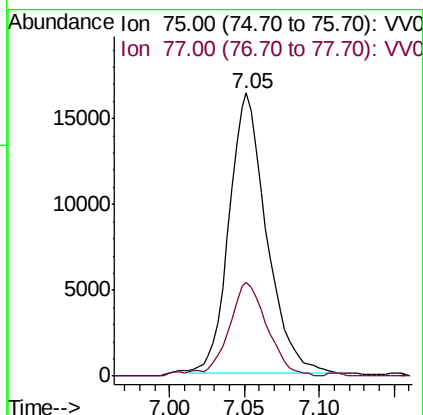
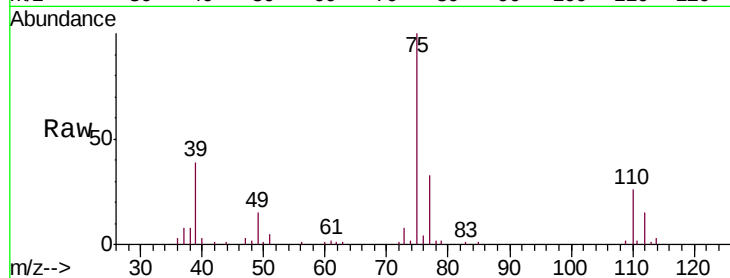


#39

cis-1,3-Dichloropropene  
Concen: 9.976 ug/L  
RT: 7.05 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

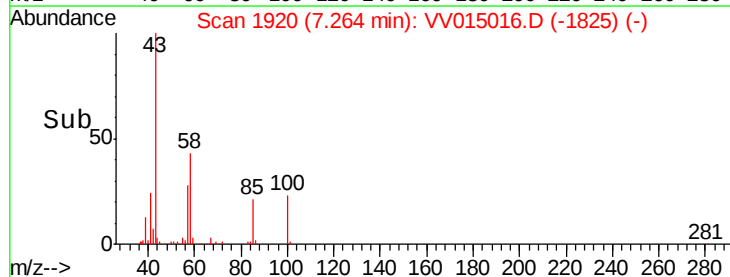
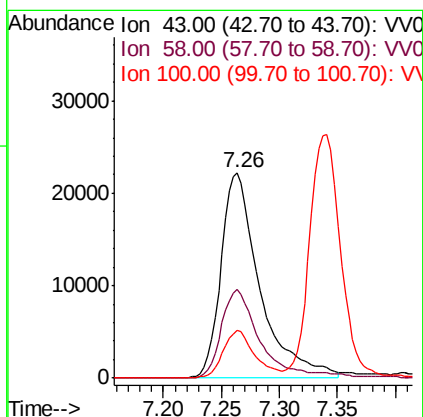
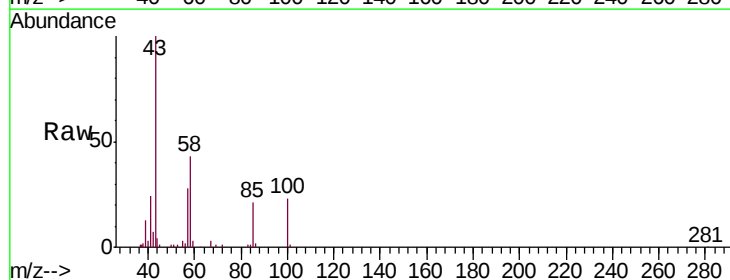
Tgt Ion: 75 Resp: 28296  
Ion Ratio Lower Upper  
75 100  
77 33.2 21.1 39.3

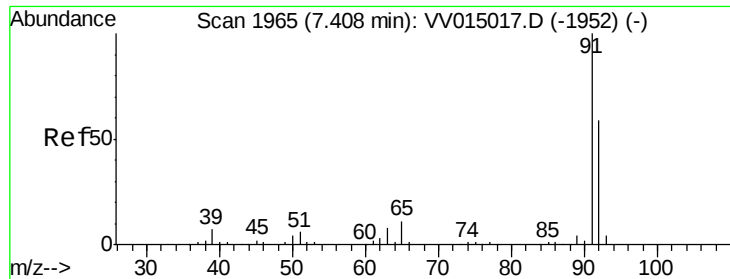


#40

4-Methyl-2-pentanone  
Concen: 21.943 ug/L  
RT: 7.26 min Scan# 1920  
Delta R.T. 0.01 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion: 43 Resp: 51490  
Ion Ratio Lower Upper  
43 100  
58 41.6 34.5 51.7  
100 19.1 15.7 23.5





#42

Toluene

Concen: 11.029 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

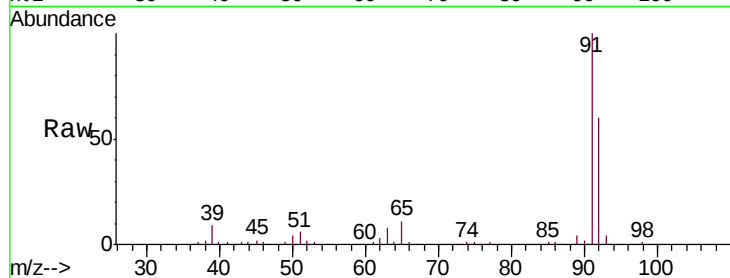
VSTD01065

Tgt Ion: 91 Resp: 87340

Ion Ratio Lower Upper

91 100

92 59.5 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VV015017.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV015017.D (-1952) (-)

60000

50000

40000

30000

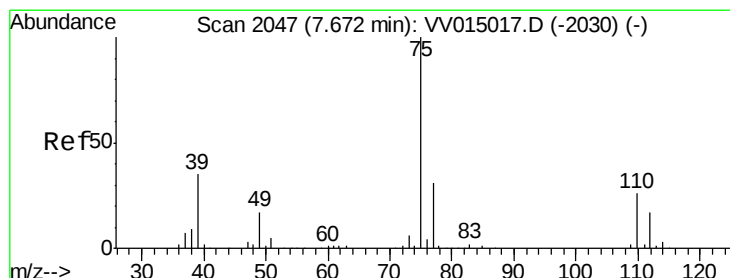
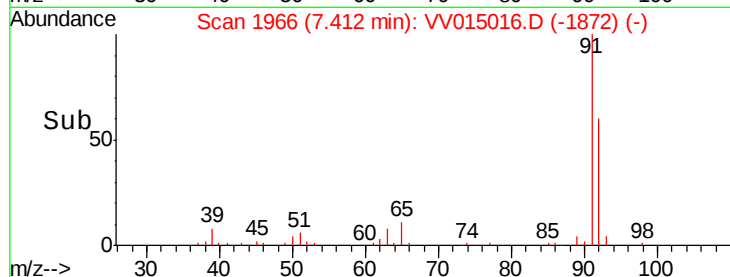
20000

10000

0

7.35 7.40 7.45

Time-->



#44

trans-1,3-Dichloropropene

Concen: 10.078 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV015016.D

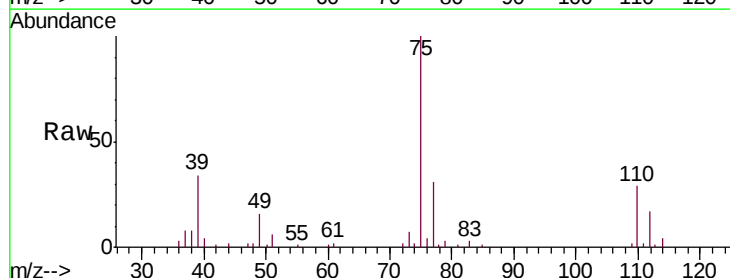
Acq: 18 Mar 2020 14:01

Tgt Ion: 75 Resp: 25895

Ion Ratio Lower Upper

75 100

77 30.8 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV015017.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV015017.D (-2030) (-)

15000

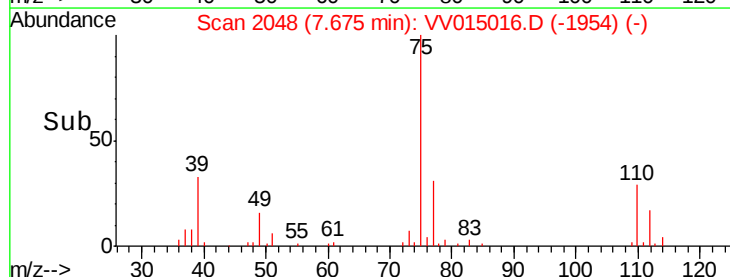
10000

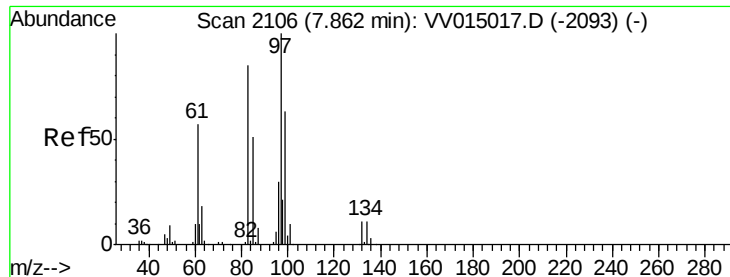
5000

0

7.60 7.65 7.70 7.75

Time-->

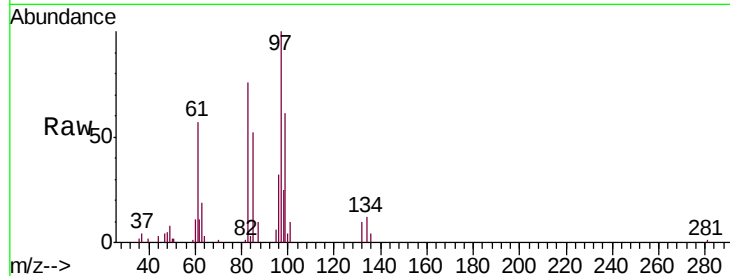




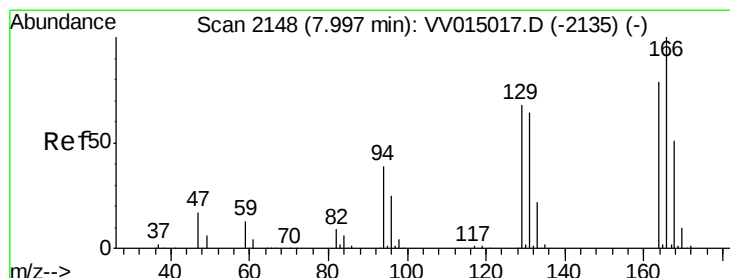
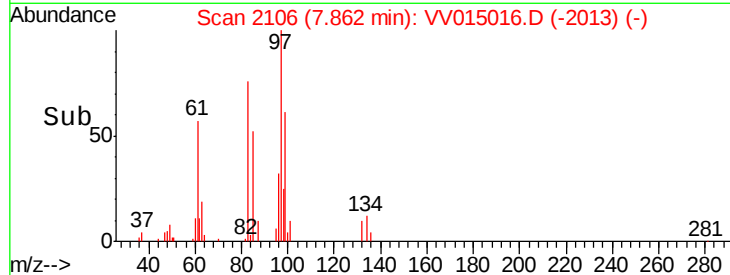
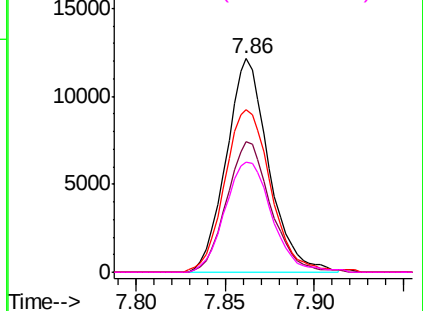
#45  
 1,1,2-Trichloroethane  
 Concen: 10.909 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 20146 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.1  | 44.3  | 82.3  |
| 83       | 76.1  | 59.5  | 110.5 |
| 85       | 51.8  | 35.7  | 66.3  |

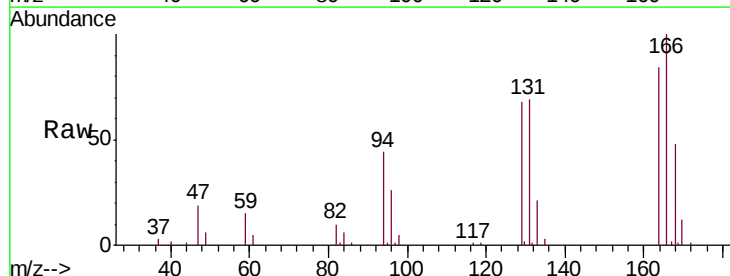


Abundance Ion 97.00 (96.70 to 97.70): VV015016.D (-2013) (-)  
 Ion 99.00 (98.70 to 99.70): VV015016.D (-2013) (-)  
 Ion 83.00 (82.70 to 83.70): VV015016.D (-2013) (-)  
 Ion 85.00 (84.70 to 85.70): VV015016.D (-2013) (-)

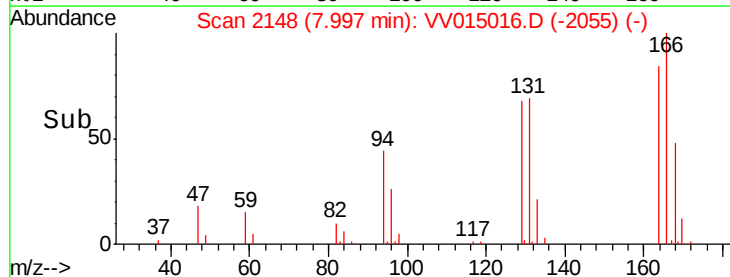
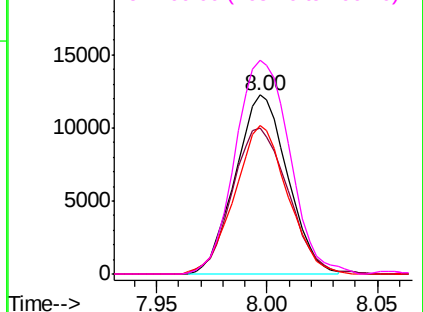


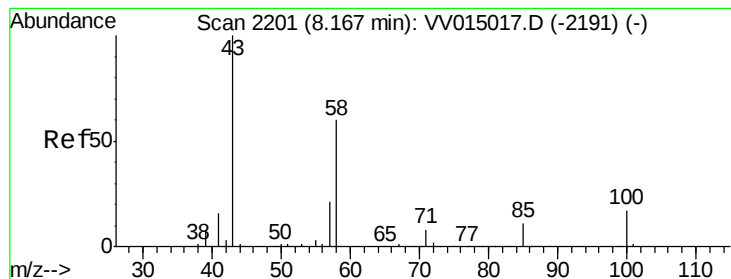
#46  
 Tetrachloroethene  
 Concen: 11.165 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 20118 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 81.3  | 60.4  | 112.2 |
| 131      | 82.8  | 57.0  | 105.8 |
| 166      | 119.2 | 88.5  | 164.3 |



Abundance Ion 164.00 (163.70 to 164.70): VV015016.D (-2055) (-)  
 Ion 129.00 (128.70 to 129.70): VV015016.D (-2055) (-)  
 Ion 131.00 (130.70 to 131.70): VV015016.D (-2055) (-)  
 Ion 166.00 (165.70 to 166.70): VV015016.D (-2055) (-)





#48

2-Hexanone

Concen: 22.185 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

Tgt Ion: 43 Resp: 38887

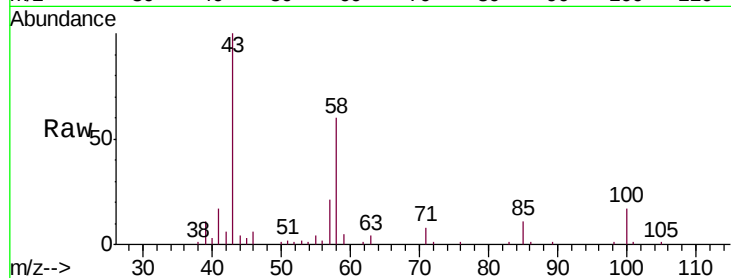
Ion Ratio Lower Upper

43 100

58 64.3 48.2 72.2

57 22.4 15.8 23.6

100 16.5 12.6 19.0

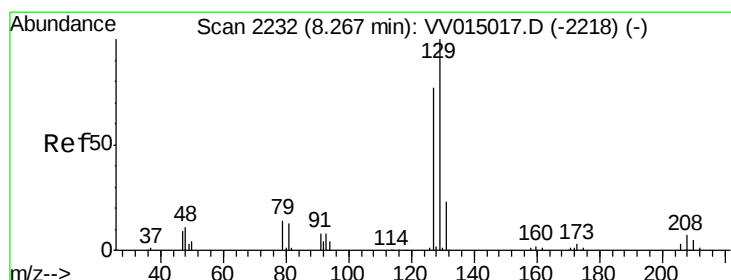
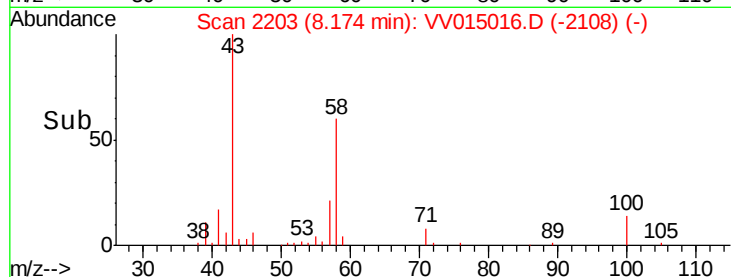
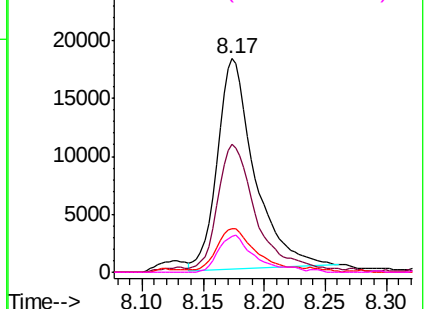


Abundance Ion 43.00 (42.70 to 43.70): VV015017.D (-2191) (-)

Ion 58.00 (57.70 to 58.70): VV015017.D (-2191) (-)

Ion 57.00 (56.70 to 57.70): VV015017.D (-2191) (-)

Ion 100.00 (99.70 to 100.70): VV015017.D (-2191) (-)



#49

Dibromochloromethane

Concen: 10.781 ug/L

RT: 8.27 min Scan# 2232

Delta R.T. -0.00 min

Lab File: VV015016.D

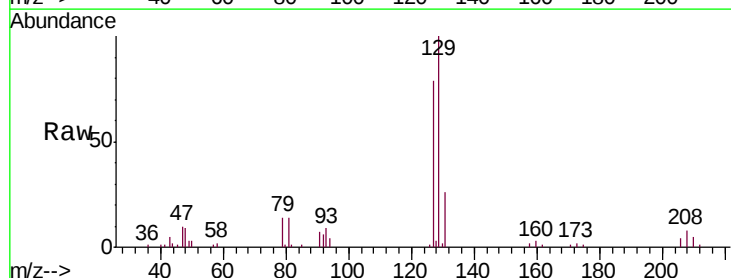
Acq: 18 Mar 2020 14:01

Tgt Ion: 129 Resp: 23138

Ion Ratio Lower Upper

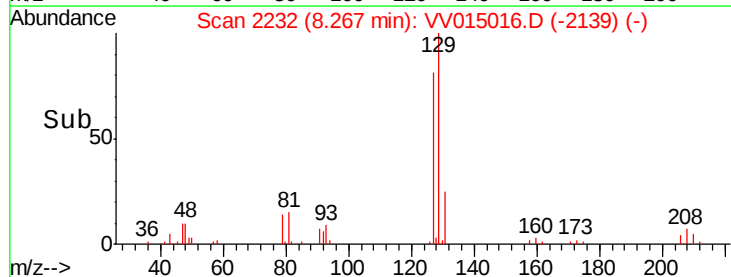
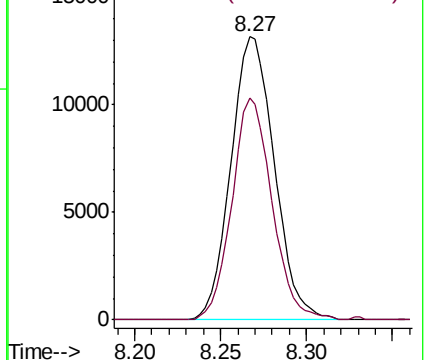
129 100

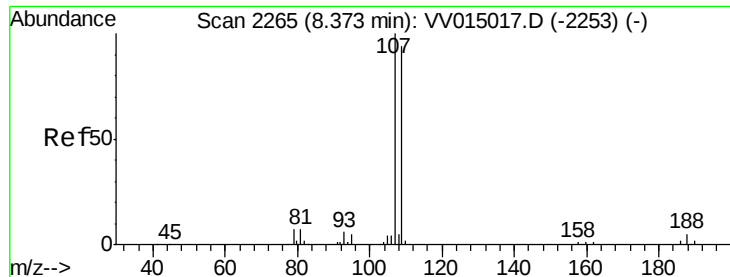
127 78.5 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): VV015017.D (-2218) (-)

Ion 127.00 (126.70 to 127.70): VV015017.D (-2218) (-)

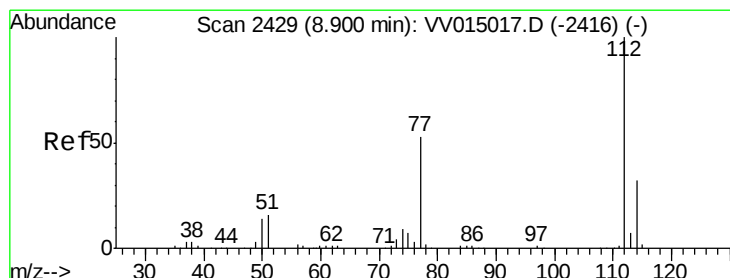
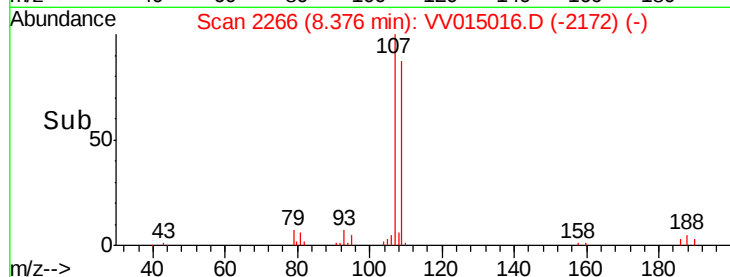
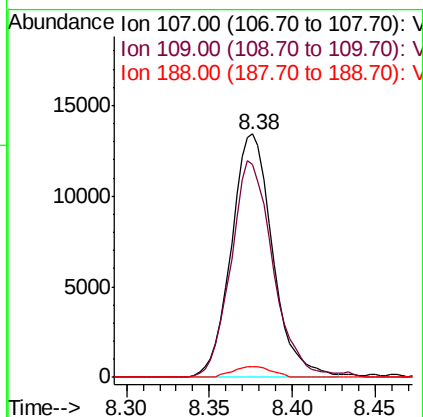
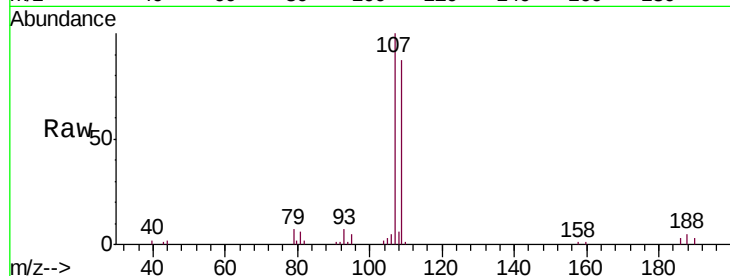




#50  
1,2-Dibromoethane  
Concen: 11.304 ug/L  
RT: 8.38 min Scan# 2266  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

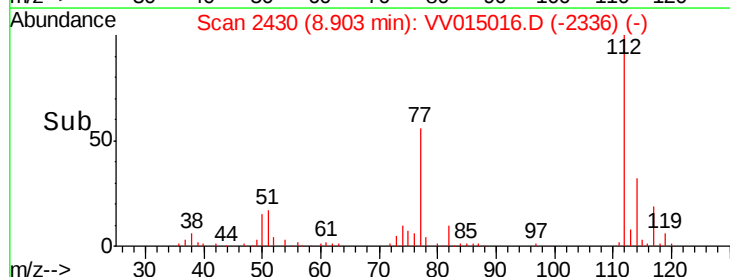
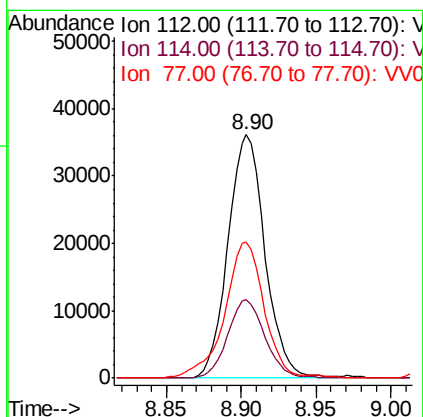
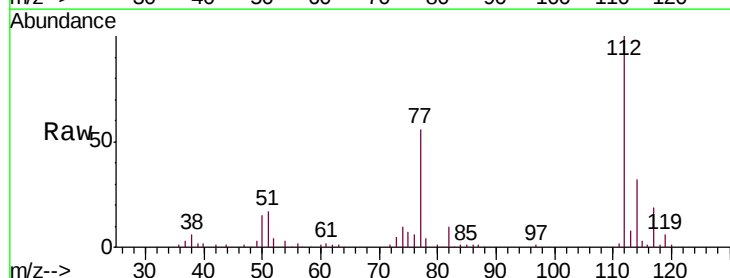
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

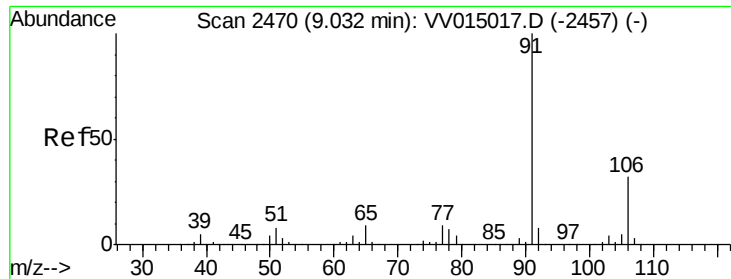
Tgt Ion:107 Resp: 23298  
Ion Ratio Lower Upper  
107 100  
109 87.4 66.0 122.6  
188 4.5 3.9 5.9



#51  
Chlorobenzene  
Concen: 11.188 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion:112 Resp: 62290  
Ion Ratio Lower Upper  
112 100  
114 32.3 22.4 41.6  
77 56.2 42.9 64.3





#52

Ethylbenzene

Concen: 11.206 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

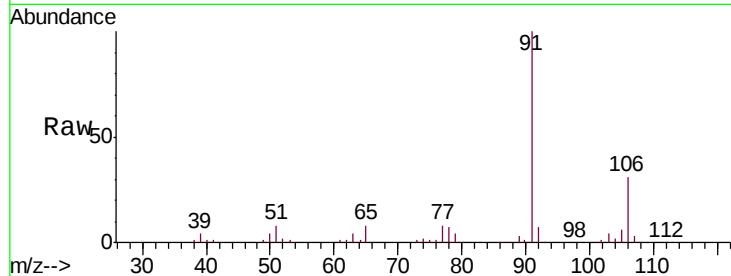
VSTD01065

Tgt Ion: 91 Resp: 100803

Ion Ratio Lower Upper

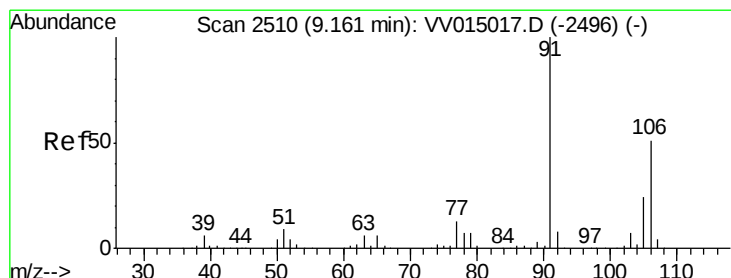
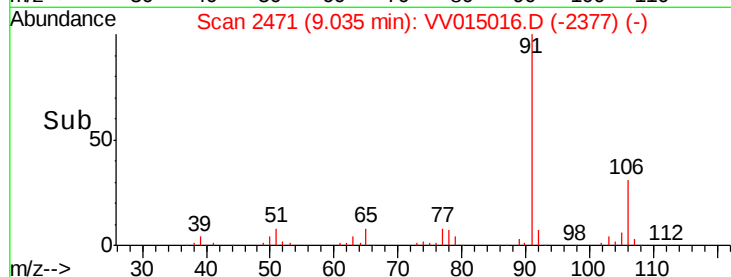
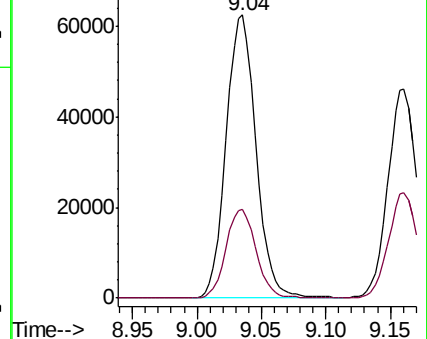
91 100

106 31.2 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV015016.D (-2377) (-)

Ion 106.00 (105.70 to 106.70): VV015016.D (-2377) (-)



#53

m,p-Xylene

Concen: 10.827 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. -0.00 min

Lab File: VV015016.D

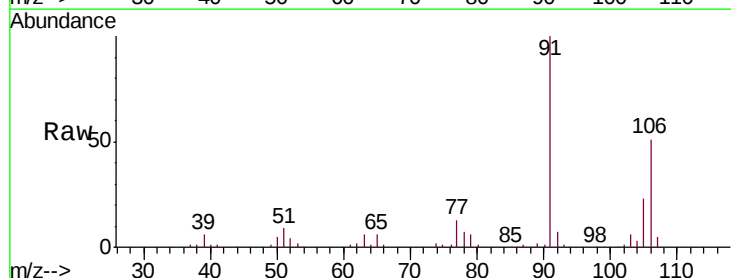
Acq: 18 Mar 2020 14:01

Tgt Ion: 106 Resp: 38127

Ion Ratio Lower Upper

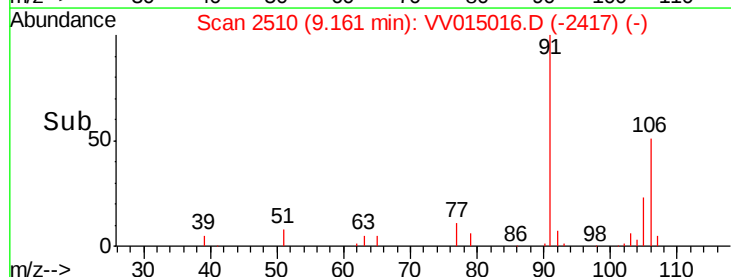
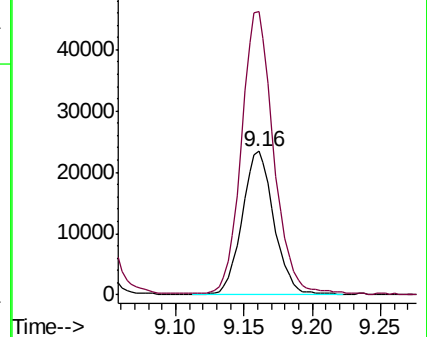
106 100

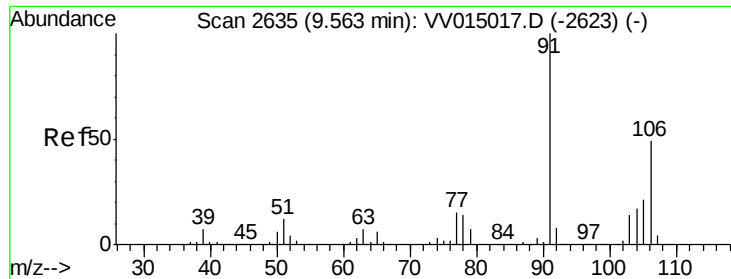
91 197.5 137.0 254.4



Abundance Ion 106.00 (105.70 to 106.70): VV015016.D (-2417) (-)

Ion 91.00 (90.70 to 91.70): VV015016.D (-2417) (-)

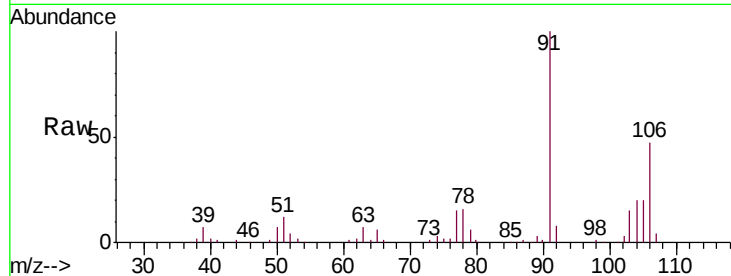




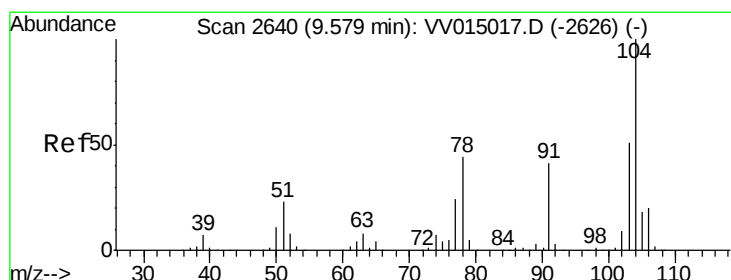
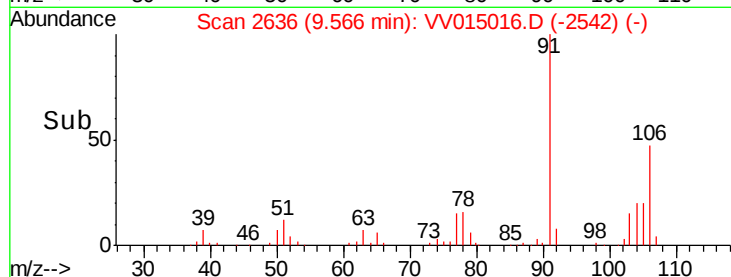
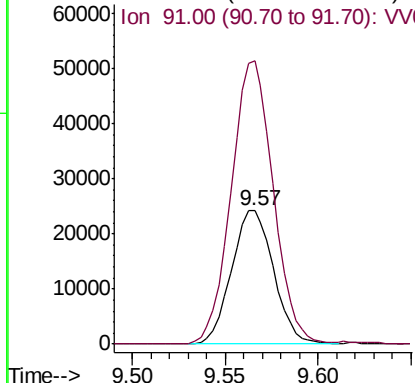
#54  
o-xylene  
Concen: 10.967 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01065

Tgt Ion:106 Resp: 38245  
Ion Ratio Lower Upper  
106 100  
91 211.9 144.3 268.1

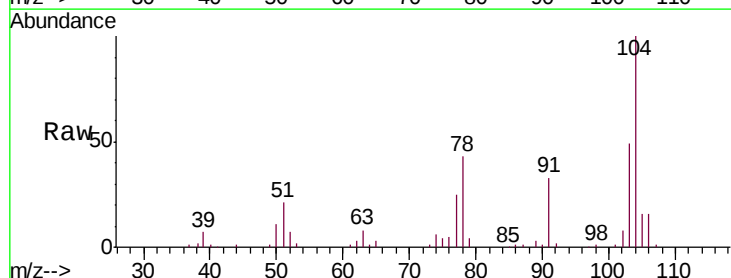


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

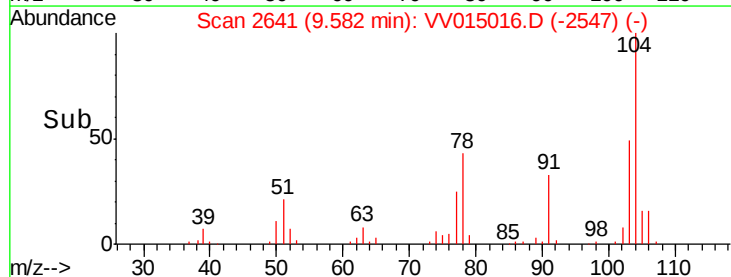
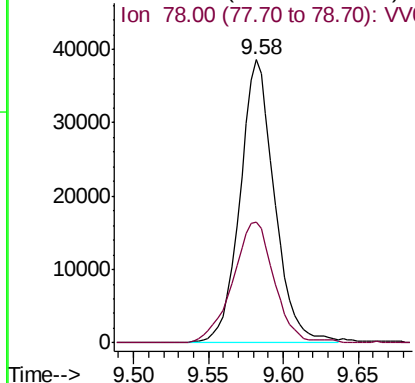


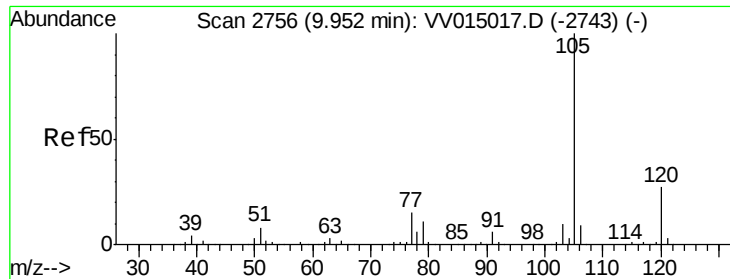
#55  
Styrene  
Concen: 10.619 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV015016.D  
Acq: 18 Mar 2020 14:01

Tgt Ion:104 Resp: 62196  
Ion Ratio Lower Upper  
104 100  
78 42.9 30.7 56.9



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





#56

Isopropylbenzene

Concen: 10.947 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

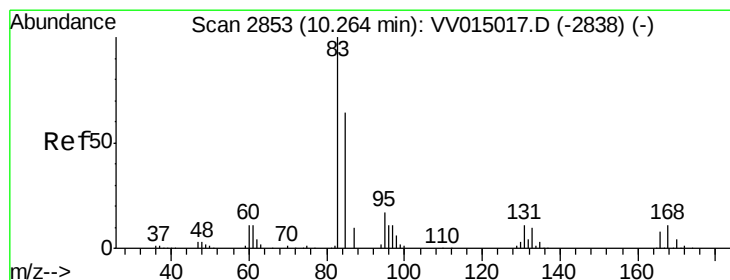
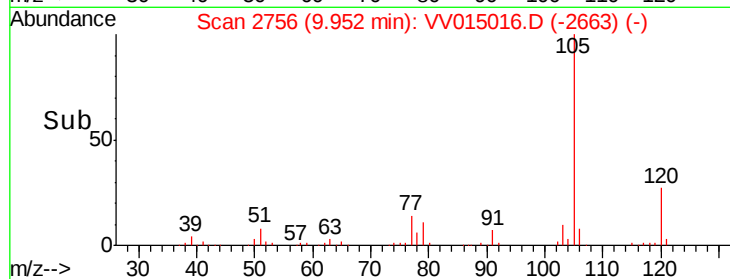
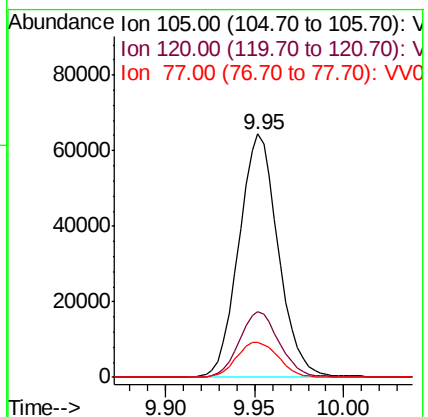
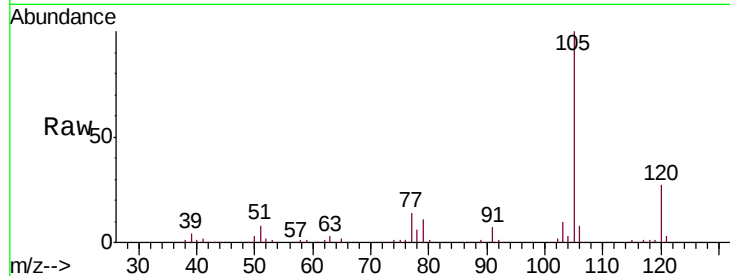
Tgt Ion: 105 Resp: 99428

Ion Ratio Lower Upper

105 100

120 27.5 21.8 32.6

77 15.5 11.7 17.5



#58

1,1,2,2-Tetrachloroethane

Concen: 11.285 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

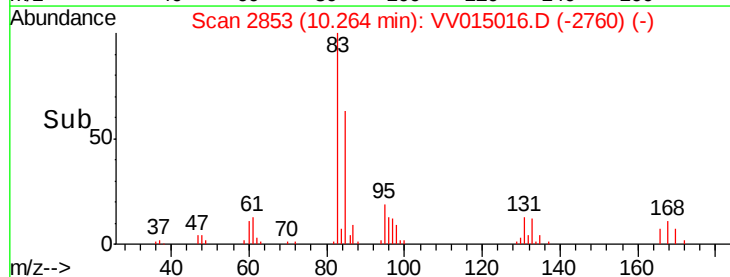
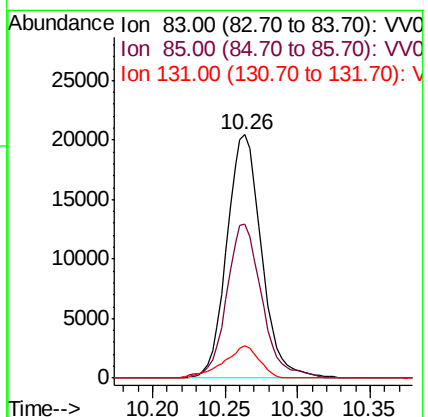
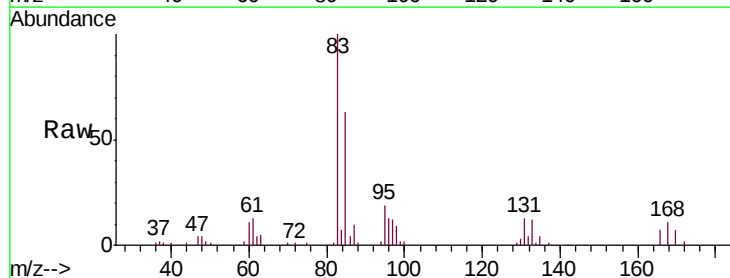
Tgt Ion: 83 Resp: 33896

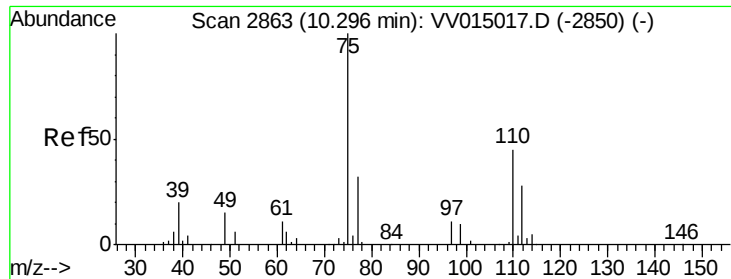
Ion Ratio Lower Upper

83 100

85 63.2 44.9 83.5

131 13.4 9.3 13.9





#59

1,2,3-Trichloropropane

Concen: 11.453 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

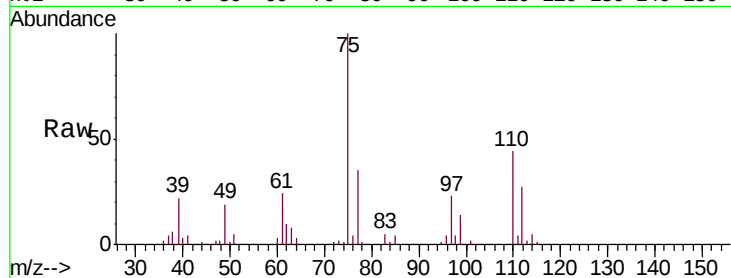
VSTD01065

Tgt Ion: 75 Resp: 27267

Ion Ratio Lower Upper

75 100

77 33.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV015017.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV015017.D (-2850) (-)

10.30

15000

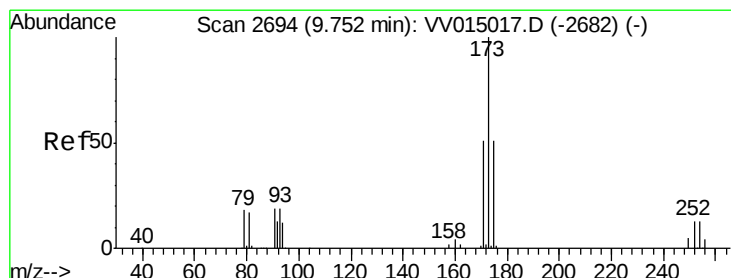
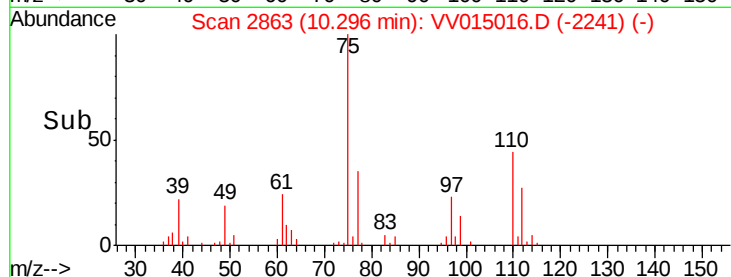
10000

5000

0

Time-->

10.25 10.30 10.35



#61

Bromoform

Concen: 10.073 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

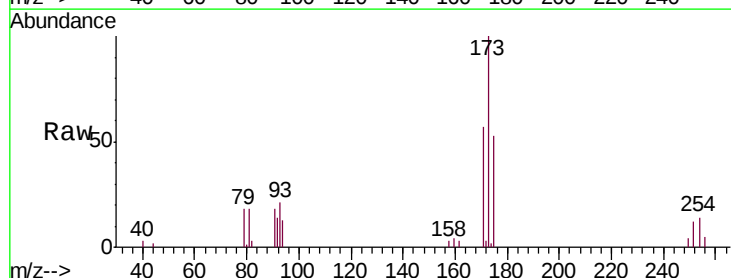
Tgt Ion: 173 Resp: 15158

Ion Ratio Lower Upper

173 100

175 49.5 39.5 59.3

254 13.9 10.1 15.1



Abundance Ion 173.00 (172.70 to 173.70): VV015017.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV015017.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV015017.D (-2682) (-)

9.75

12000

10000

8000

6000

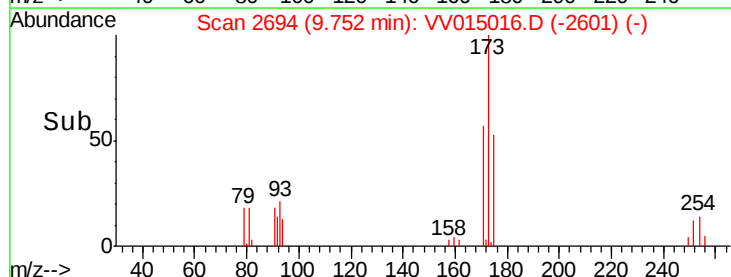
4000

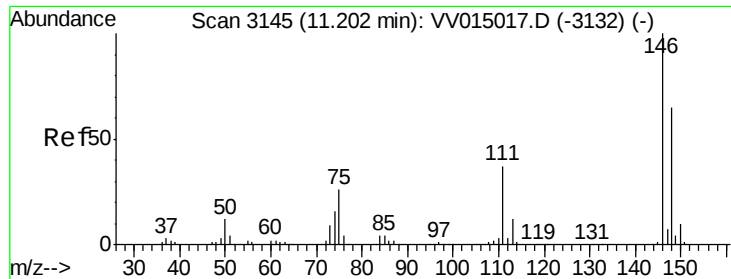
2000

0

Time-->

9.70 9.75 9.80





#62

1,3-Dichlorobenzene

Concen: 11.123 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

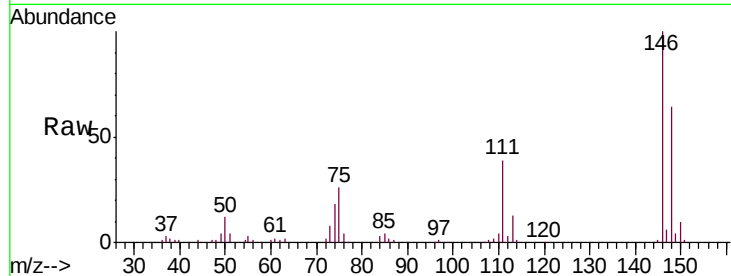
Tgt Ion:146 Resp: 50956

Ion Ratio Lower Upper

146 100

111 38.5 25.7 47.7

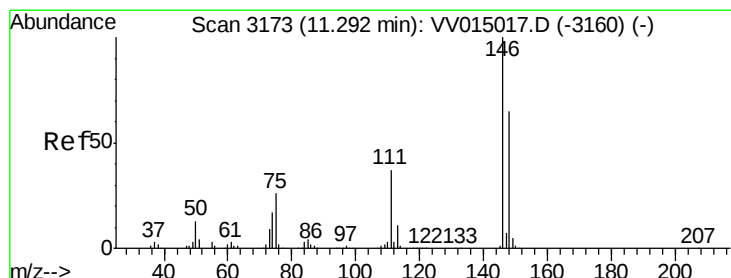
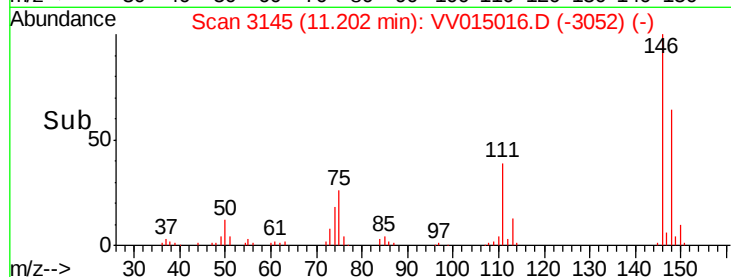
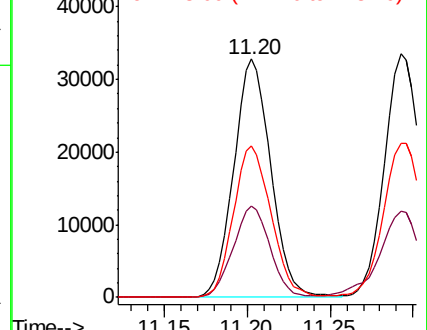
148 63.6 45.4 84.4



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: 11.112 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

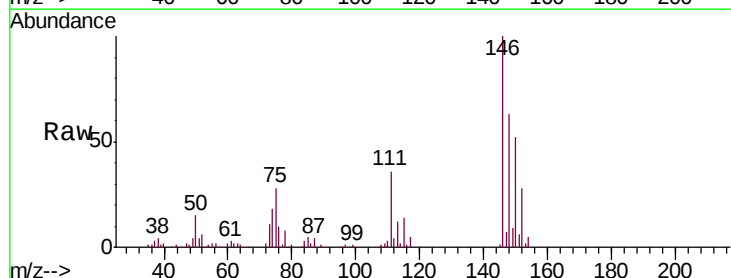
Tgt Ion:146 Resp: 52984

Ion Ratio Lower Upper

146 100

111 35.5 25.8 48.0

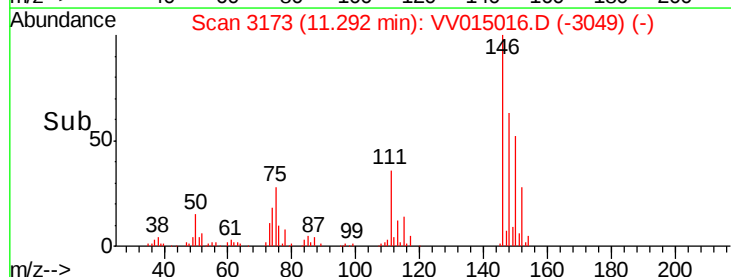
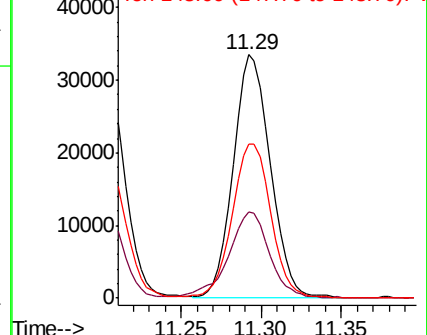
148 63.2 45.7 84.9

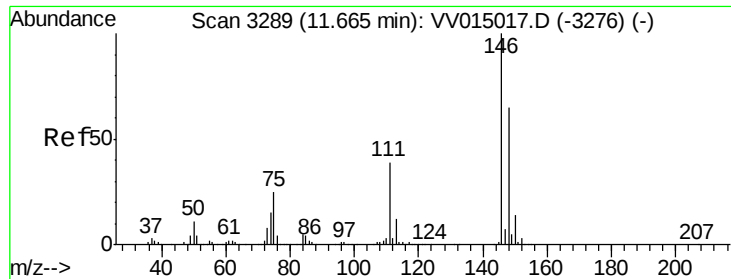


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

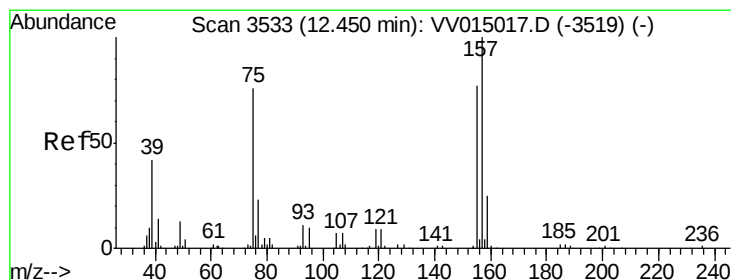
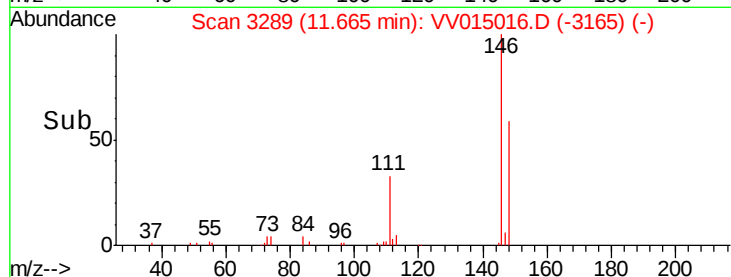
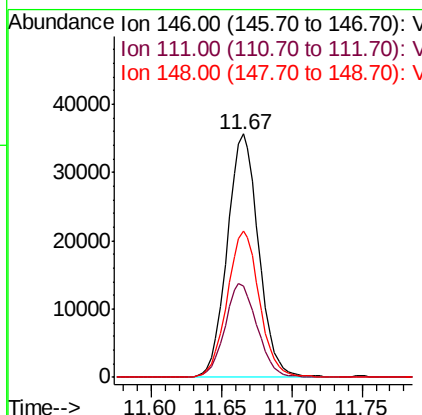
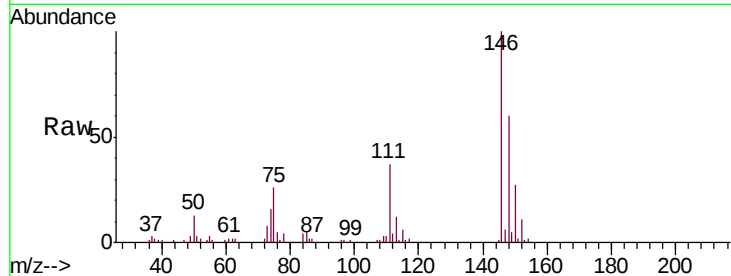




#65  
 1,2-Dichlorobenzene  
 Concen: 11.429 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

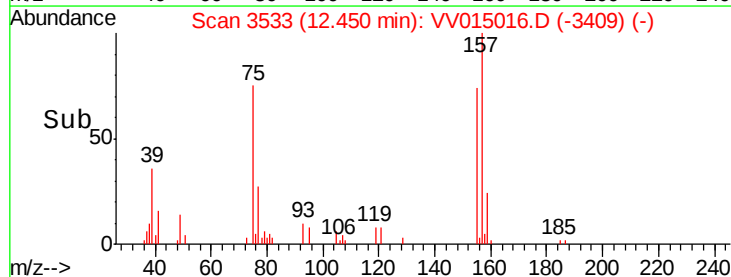
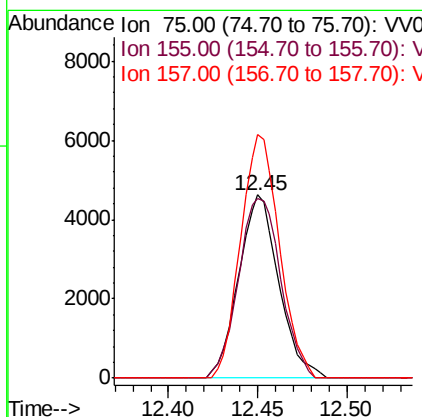
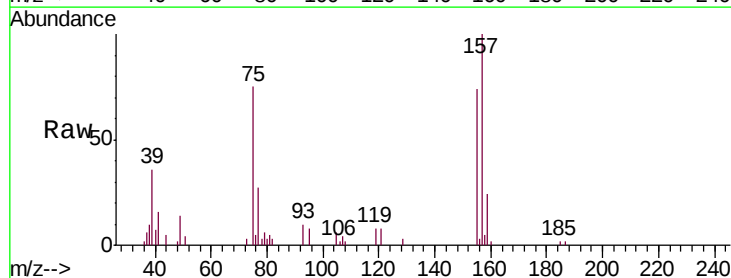
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

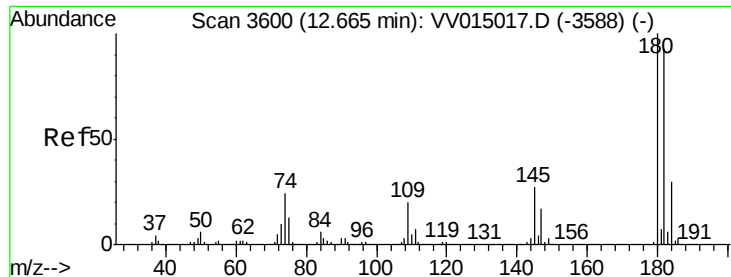
Tgt Ion: 146 Resp: 55612  
 Ion Ratio Lower Upper  
 146 100  
 111 37.4 31.5 47.3  
 148 60.1 51.7 77.5



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 10.612 ug/L  
 RT: 12.45 min Scan# 3533  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Tgt Ion: 75 Resp: 7216  
 Ion Ratio Lower Upper  
 75 100  
 155 98.2 80.6 121.0  
 157 133.0 104.6 157.0

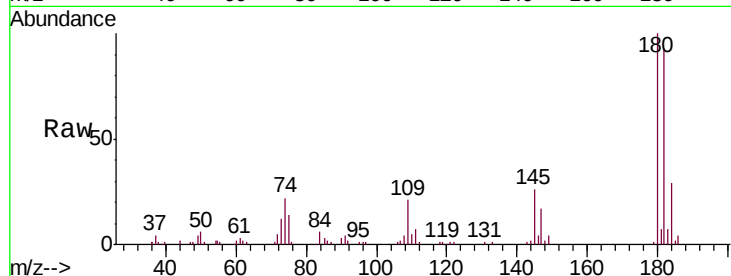




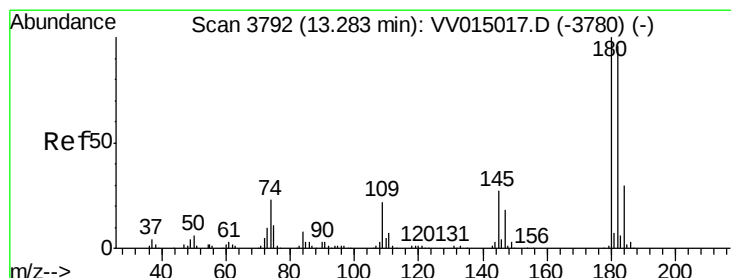
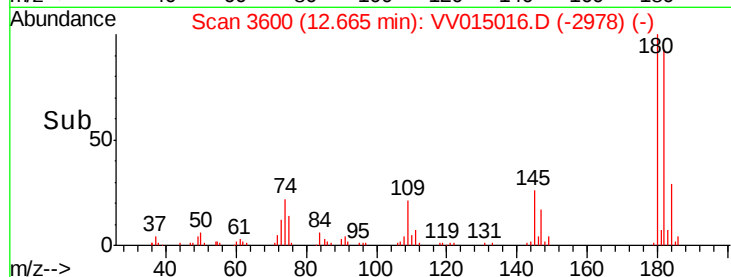
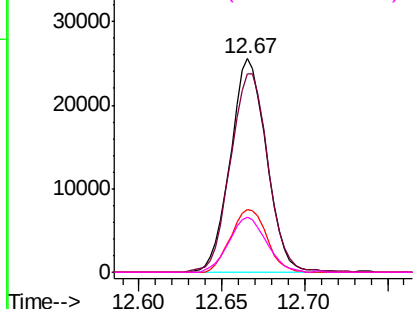
#67  
 1,3,5-Trichlorobenzene  
 Concen: 10.701 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01065

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 38784 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 96.6  | 75.2  | 112.8 |
| 184      | 29.1  | 23.9  | 35.9  |
| 145      | 26.6  | 22.0  | 33.0  |

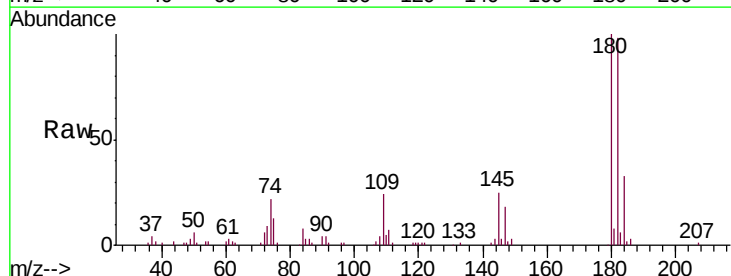


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

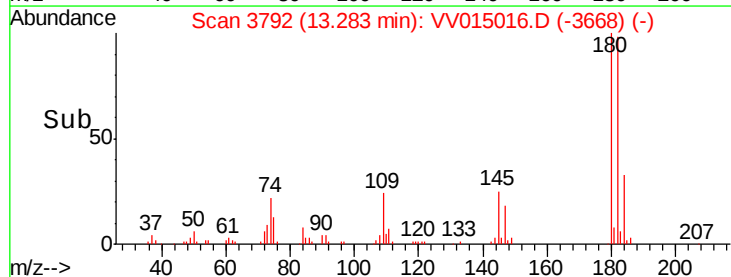
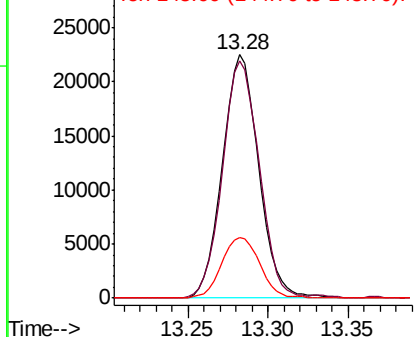


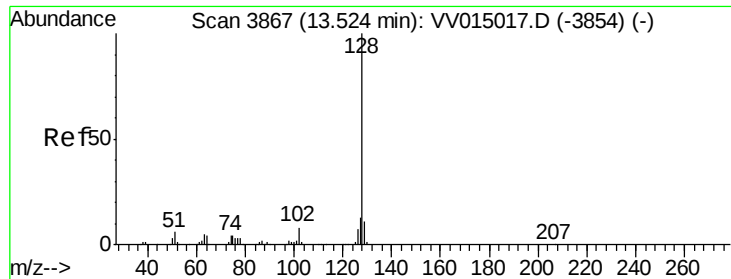
#68  
 1,2,4-trichlorobenzene  
 Concen: 10.461 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV015016.D  
 Acq: 18 Mar 2020 14:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 34916 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.3  | 76.3  | 114.5 |
| 145      | 26.0  | 22.2  | 33.4  |



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: 9.402 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01065

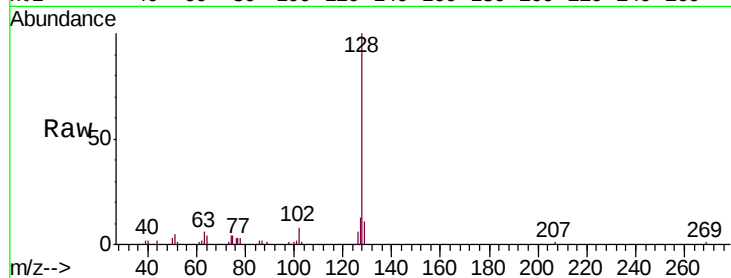
Tgt Ion:128 Resp: 40973

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

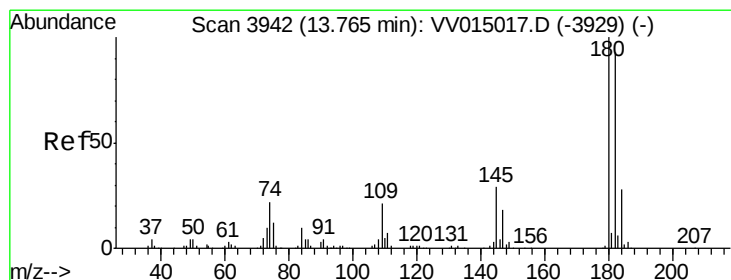
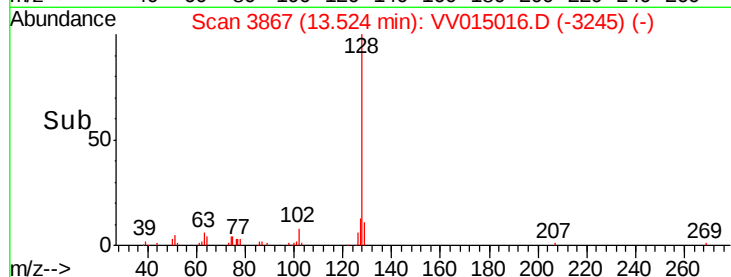
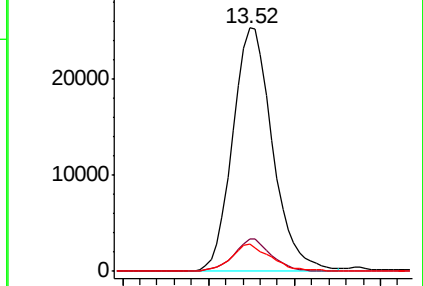
129 11.1 8.6 13.0



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: 10.230 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV015016.D

Acq: 18 Mar 2020 14:01

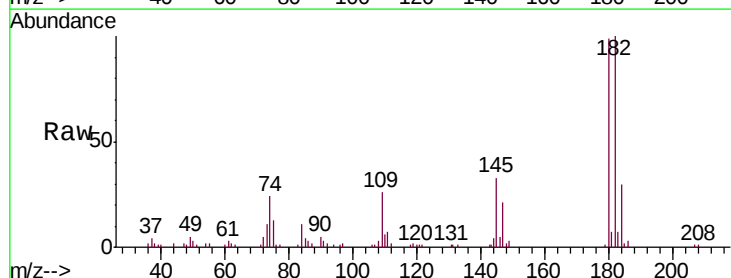
Tgt Ion:180 Resp: 33546

Ion Ratio Lower Upper

180 100

182 95.8 75.5 113.3

145 31.0 23.5 35.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

