

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032520\  
 Data File : VV015138.D  
 Acq On : 25 Mar 2020 12:34  
 Operator : SY/MD  
 Sample : VSTD20065  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 25 13:21:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 25 13:17:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 771128   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 751124   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 366277   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 1218150 | 191.70 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 1078294 | 169.87 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.12  | 63  | 2453563 | 203.75 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 1651519 | 338.23 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.38  | 84  | 2022294 | 174.07 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.06  | 65  | 1270242 | 163.10 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.08  | 84  | 4030624 | 175.01 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.09  | 67  | 1270912 | 164.22 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.34  | 98  | 3880863 | 187.89 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.64  | 79  | 719815  | 171.85 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.11  | 63  | 1305142 | 324.35 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24 | 84  | 1873977 | 161.31 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.65 | 152 | 1501724 | 178.29 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |         | Qvalue    |
|--------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 1178185 | 268.783 | ug/L 99   |
| 3) Chloromethane               | 1.25 | 50  | 1233188 | 168.408 | ug/L 100  |
| 5) Vinyl chloride              | 1.32 | 62  | 1298676 | 199.032 | ug/L 99   |
| 6) Bromomethane                | 1.53 | 94  | 817816  | 174.331 | ug/L 97   |
| 8) Chloroethane                | 1.60 | 64  | 805081  | 148.662 | ug/L 97   |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 2099595 | 258.513 | ug/L 100  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 1083537 | 270.181 | ug/L 100  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 1046662 | 215.725 | ug/L 96   |
| 13) Acetone                    | 2.13 | 43  | 12967   | 4.501   | ug/L 91   |
| 14) Carbon disulfide           | 2.31 | 76  | 2761359 | 211.287 | ug/L 100  |
| 15) Methyl Acetate             | 2.46 | 43  | 1004135 | 154.333 | ug/L 98   |
| 16) Methylene chloride         | 2.52 | 84  | 1009155 | 167.104 | ug/L 100  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 926620  | 195.577 | ug/L 98   |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 3085872 | 160.856 | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 1693551 | 175.401 | ug/L 99   |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 1040464 | 180.948 | ug/L # 98 |
| 22) 2-Butanone                 | 4.01 | 43  | 1451465 | 341.607 | ug/L 100  |
| 23) Bromochloromethane         | 4.28 | 128 | 528184  | 168.460 | ug/L 94   |
| 25) Chloroform                 | 4.40 | 83  | 1744754 | 174.270 | ug/L 99   |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 1352431 | 169.966 | ug/L 98   |
| 29) Cyclohexane                | 4.70 | 56  | 1593037 | 258.141 | ug/L 99   |
| 30) 1,1,1-Trichloroethane      | 4.64 | 97  | 1628887 | 203.926 | ug/L 99   |
| 31) Carbon tetrachloride       | 4.86 | 117 | 1411507 | 222.139 | ug/L 99   |
| 33) Benzene                    | 5.13 | 78  | 3893242 | 181.809 | ug/L 100  |
| 34) Trichloroethene            | 5.94 | 95  | 1030677 | 205.120 | ug/L 99   |
| 35) Methylcyclohexane          | 6.15 | 83  | 1711527 | 274.561 | ug/L 99   |
| 37) 1,2-Dichloropropane        | 6.20 | 63  | 1000917 | 171.192 | ug/L 100  |
| 38) Bromodichloromethane       | 6.53 | 83  | 1402217 | 167.546 | ug/L 99   |
| 39) cis-1,3-Dichloropropene    | 7.05 | 75  | 1742175 | 184.456 | ug/L 100  |
| 40) 4-Methyl-2-pentanone       | 7.25 | 43  | 2974371 | 303.678 | ug/L 99   |

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 Acq On : 25 Mar 2020 12:34  
 Operator : SY/MD  
 Sample : VSTD20065  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

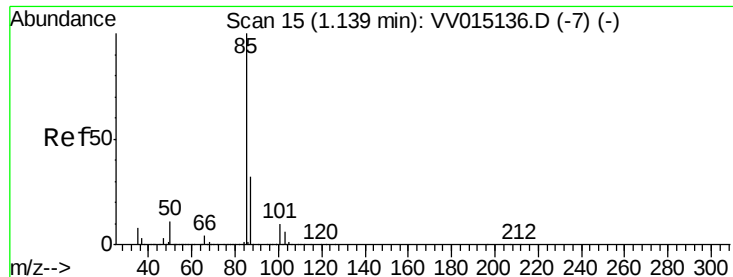
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 25 13:21:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 25 13:17:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.41  | 91   | 4311864  | 197.474 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 1687017  | 178.089 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 974354   | 160.158 | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.00  | 164  | 753482   | 232.645 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.16  | 43   | 2358781  | 327.817 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 1138695  | 166.750 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 1067821  | 163.113 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.90  | 112  | 2784773  | 193.366 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.03  | 91   | 4883255  | 217.610 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.16  | 106  | 1908368  | 220.106 | ug/L  | 98       |
| 54) o-xylene                   | 9.57  | 106  | 1868378  | 204.801 | ug/L  | 97       |
| 55) Styrene                    | 9.58  | 104  | 3252496  | 202.740 | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.95  | 105  | 4873168  | 230.467 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 1635985  | 162.296 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 1294295  | 158.943 | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 802820   | 152.807 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 2168570  | 196.872 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.30 | 146  | 2175812  | 194.329 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 2168223  | 181.242 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 448964   | 146.757 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 1494687  | 214.306 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 1444016  | 204.870 | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 5280259  | 168.522 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 1429003  | 193.895 | ug/L  | 99       |

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





#2

Dichlorodifluoromethane

Concen: 268.783 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

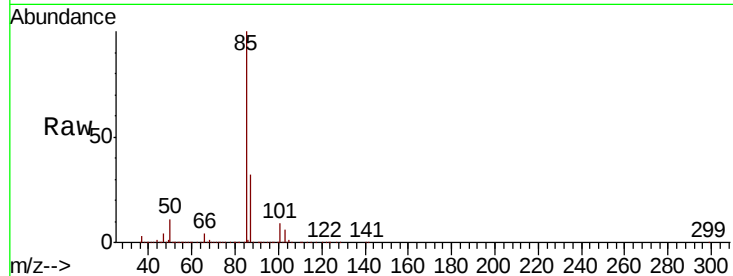
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 1178185

Ion Ratio Lower Upper

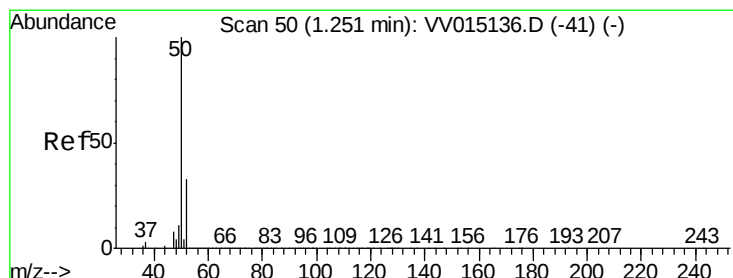
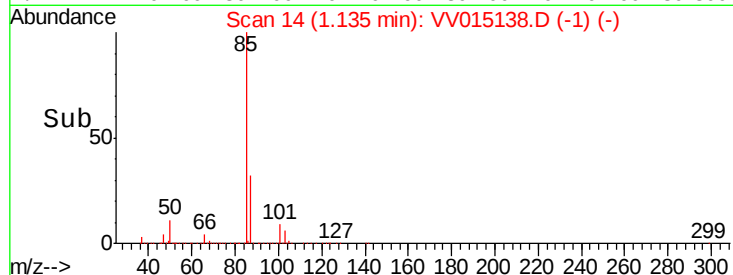
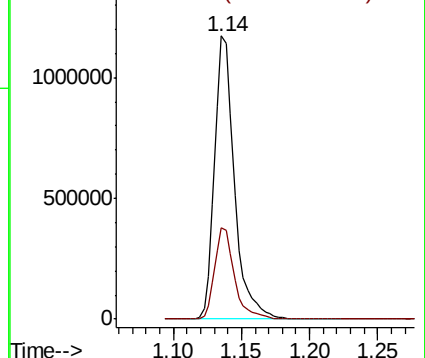
85 100

87 32.3 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 168.408 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV015138.D

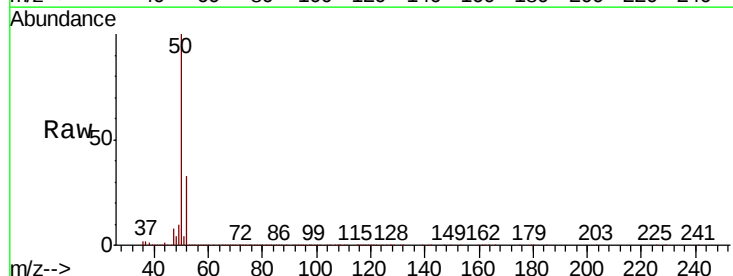
Acq: 25 Mar 2020 12:34

Tgt Ion: 50 Resp: 1233188

Ion Ratio Lower Upper

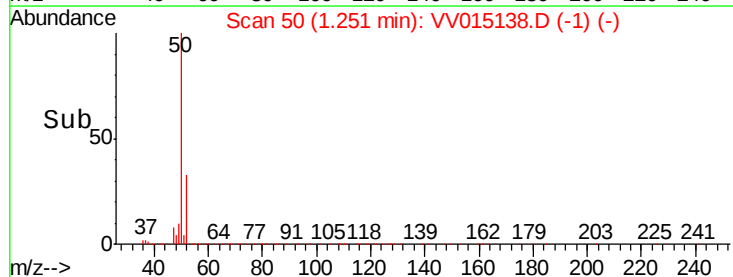
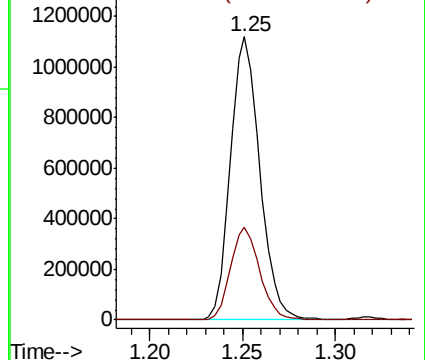
50 100

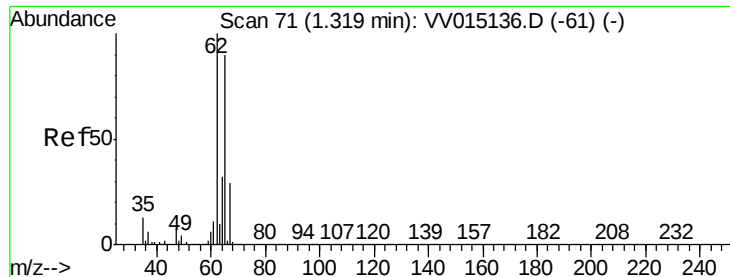
52 32.6 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 199.032 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

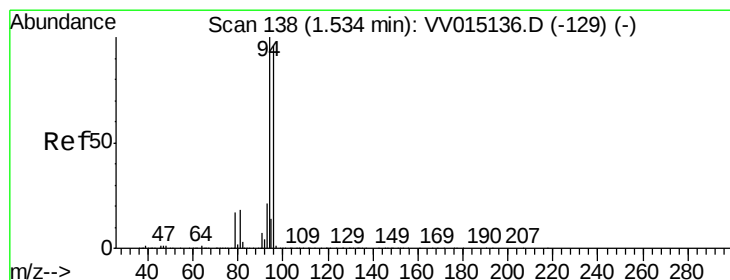
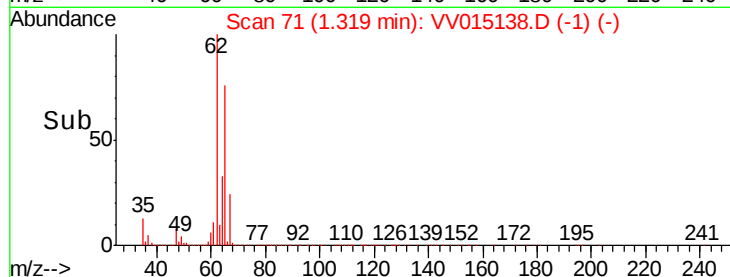
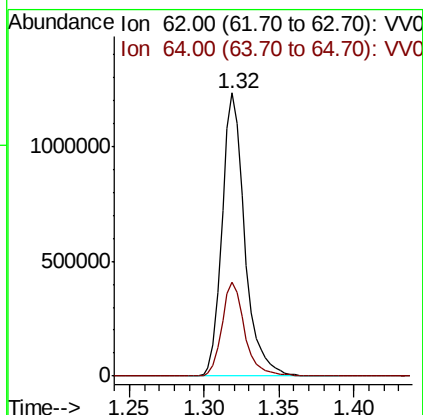
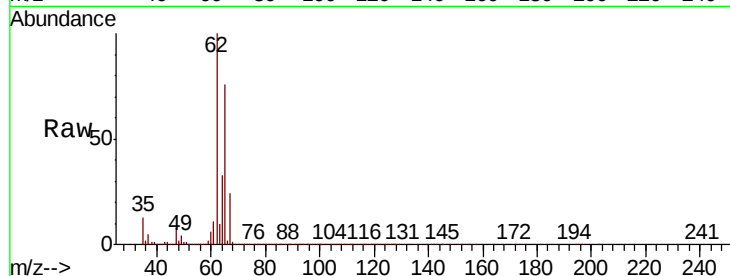
ClientSampled :

Tot Ion: 62 Resp: 1298676

Ion Ratio Lower Upper

62 100

64 33.1 22.8 42.4



#6

Bromomethane

Concen: 174.331 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV015138.D

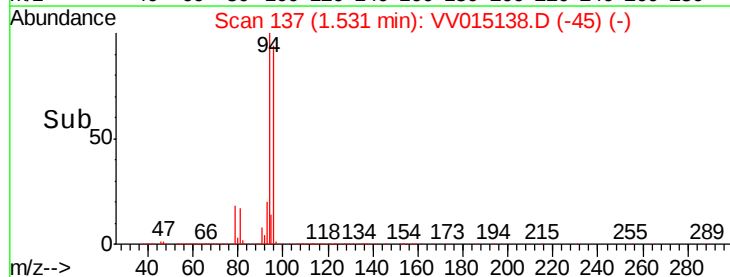
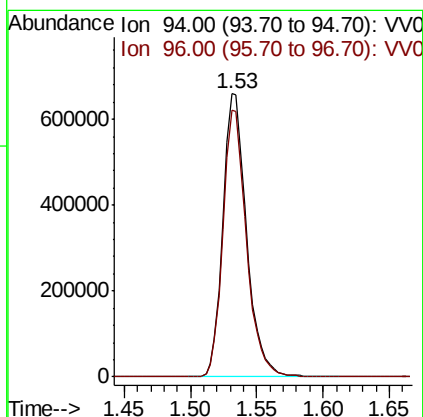
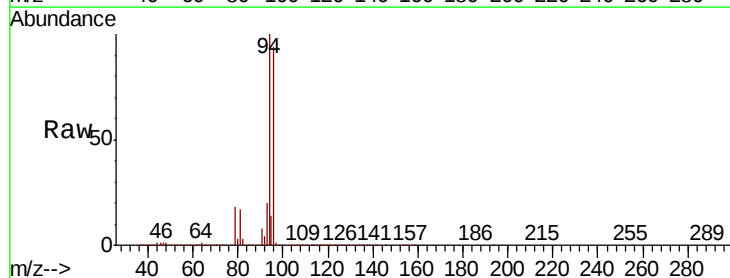
Acq: 25 Mar 2020 12:34

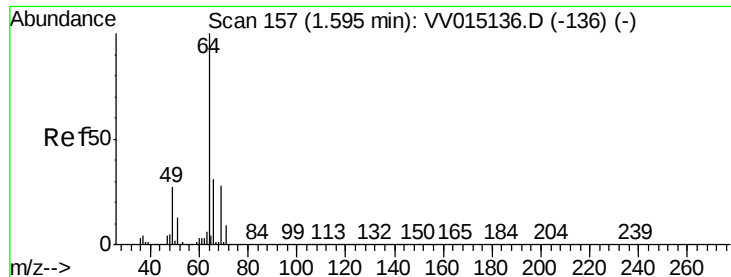
Tgt Ion: 94 Resp: 817816

Ion Ratio Lower Upper

94 100

96 94.0 67.7 125.7





#8

Chloroethane

Concen: 148.662 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

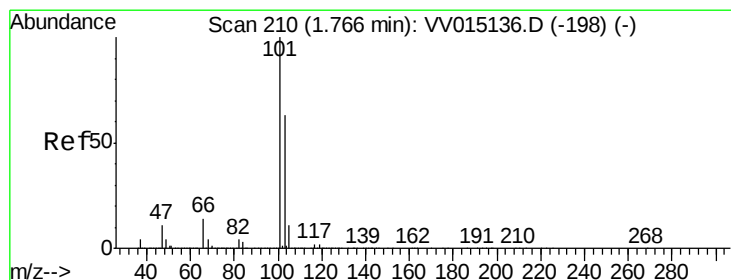
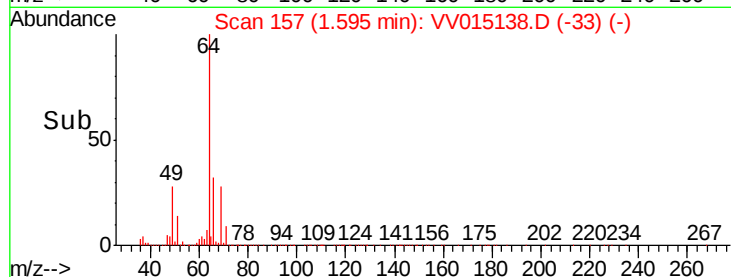
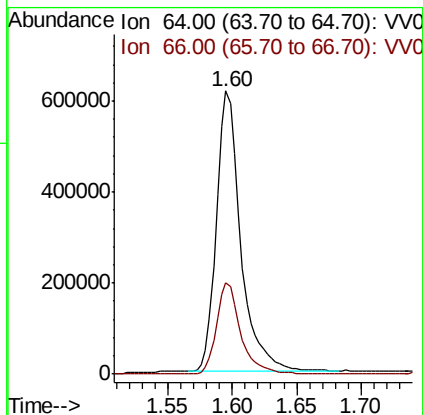
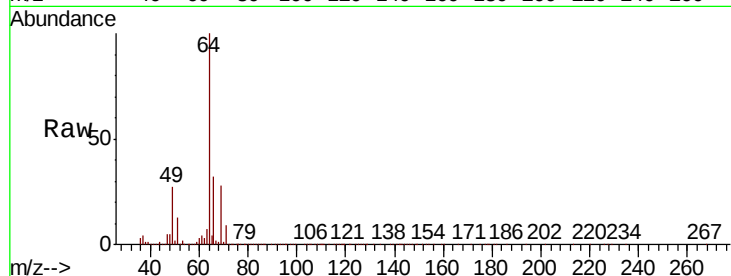
ClientSampleId :

Tot Ion: 64 Resp: 805081

Ion Ratio Lower Upper

64 100

66 32.3 21.6 40.2



#9

Trichlorofluoromethane

Concen: 258.513 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV015138.D

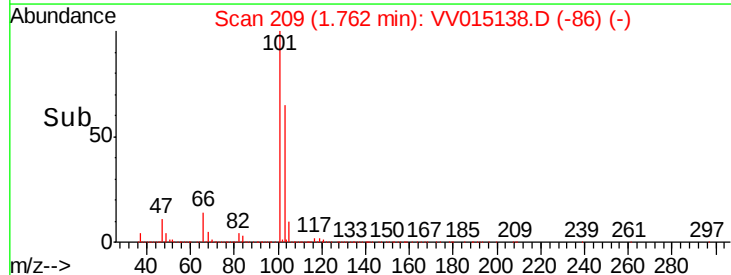
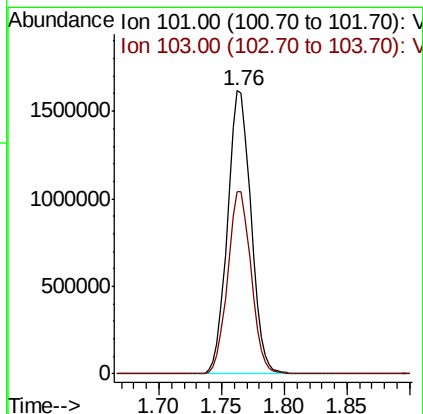
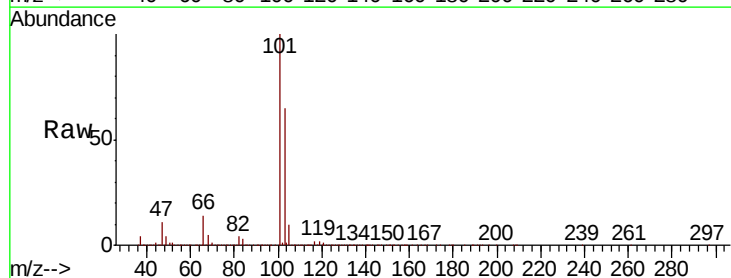
Acq: 25 Mar 2020 12:34

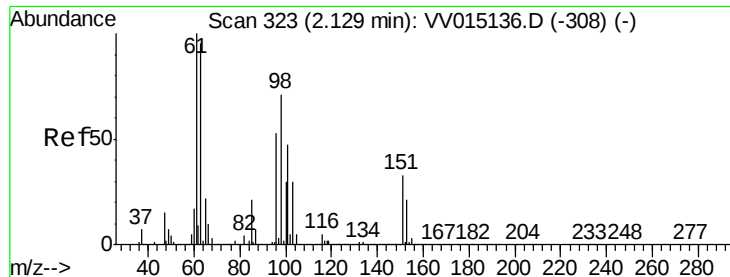
Tgt Ion: 101 Resp: 2099595

Ion Ratio Lower Upper

101 100

103 64.5 51.4 77.0





#10

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

Concen: 270.181 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

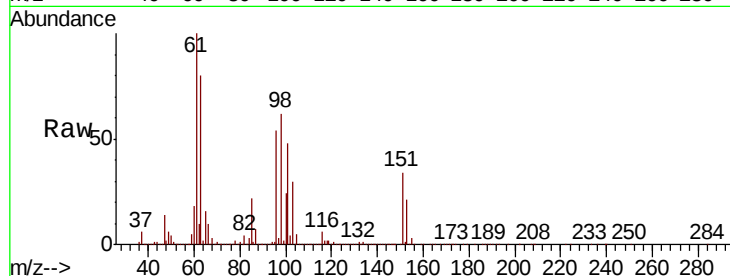
Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion:101 Resp: 1083537

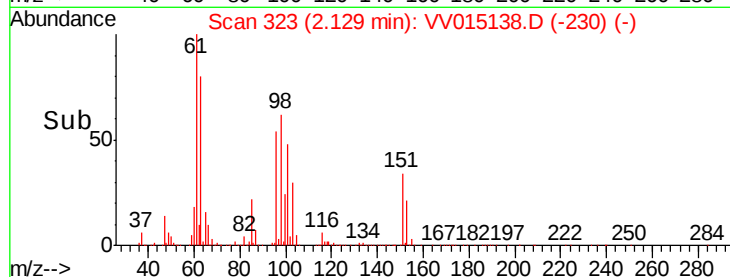
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 101 | 100   |       |       |
| 85  | 45.3  | 36.0  | 54.0  |
| 151 | 70.1  | 56.2  | 84.2  |



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

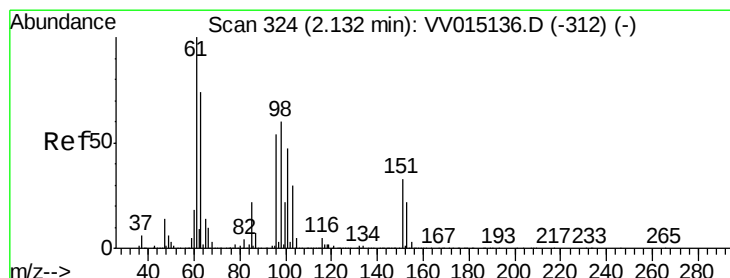
Ion 151.00 (150.70 to 151.70): V



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: 215.725 ug/L

RT: 2.13 min Scan# 323

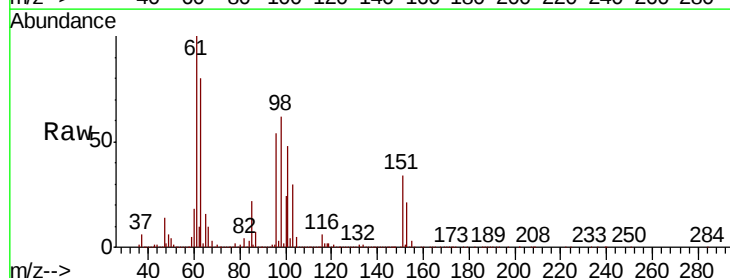
Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion: 96 Resp: 1046662

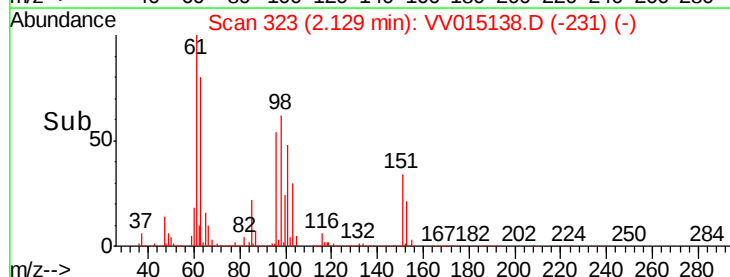
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 185.0 | 128.6 | 238.8 |
| 63  | 147.9 | 97.5  | 181.1 |



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

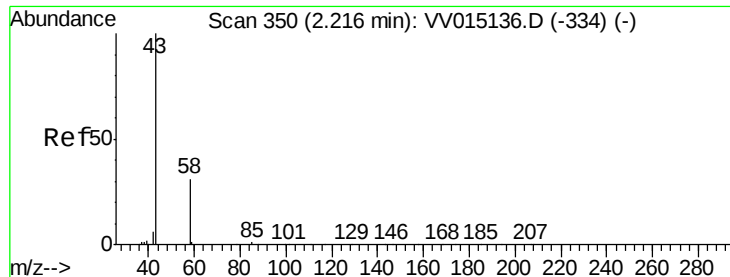
Ion 63.00 (62.70 to 63.70): VV0



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: 4.501 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.09 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

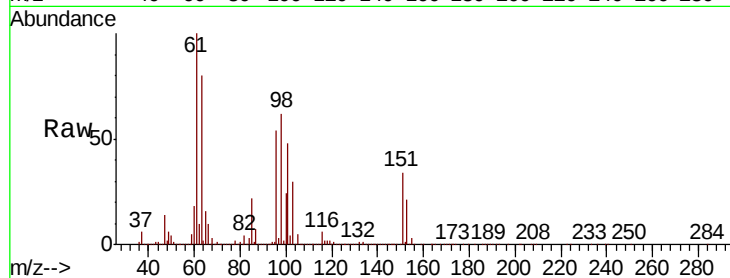
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 12967

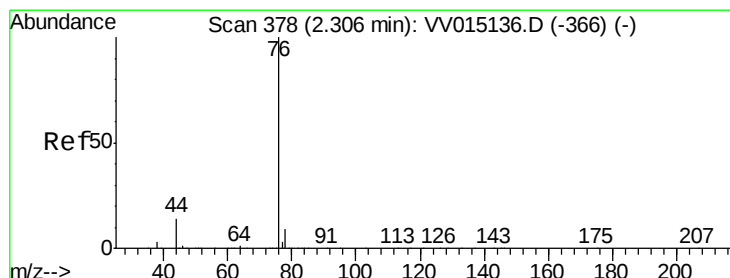
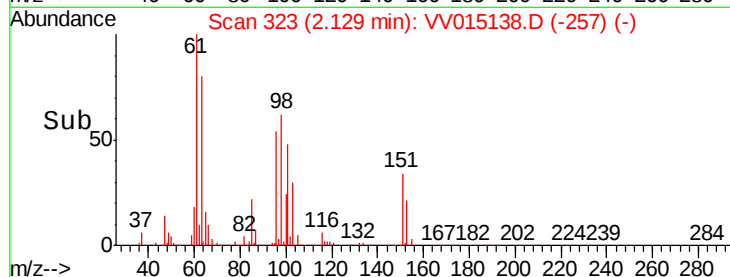
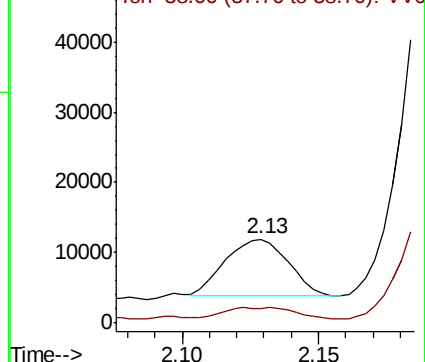
Ion Ratio Lower Upper

43 100

58 10.4 0.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 211.287 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV015138.D

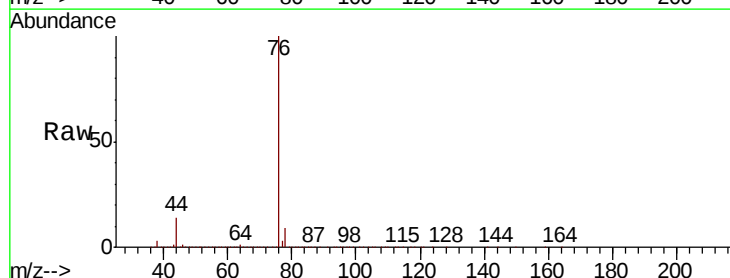
Acq: 25 Mar 2020 12:34

Tgt Ion: 76 Resp: 2761359

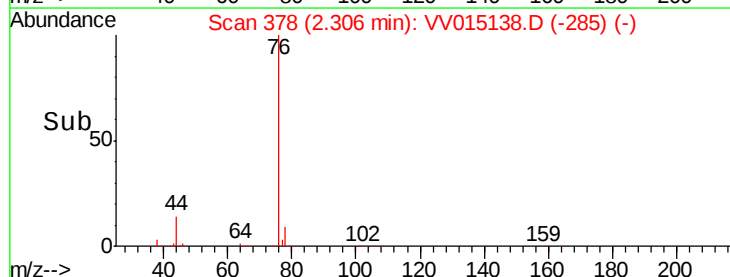
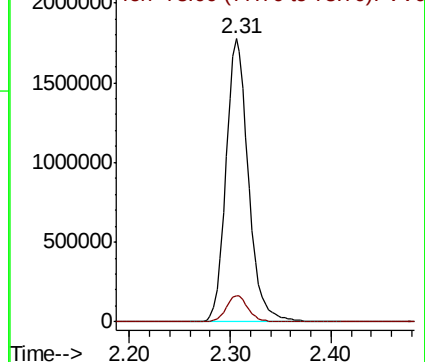
Ion Ratio Lower Upper

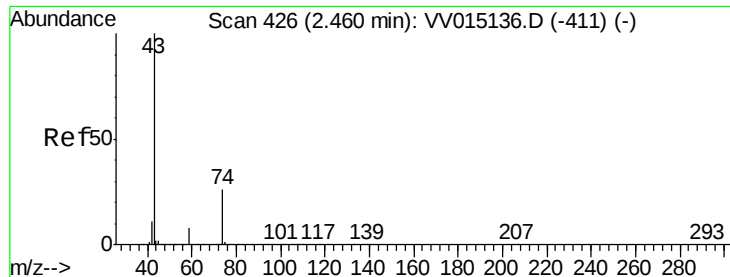
76 100

78 9.4 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV0  
Ion 78.00 (77.70 to 78.70): VV0

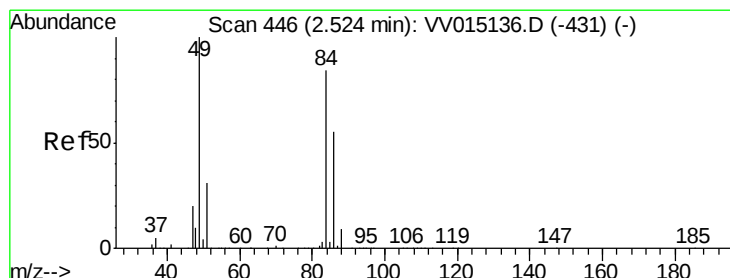
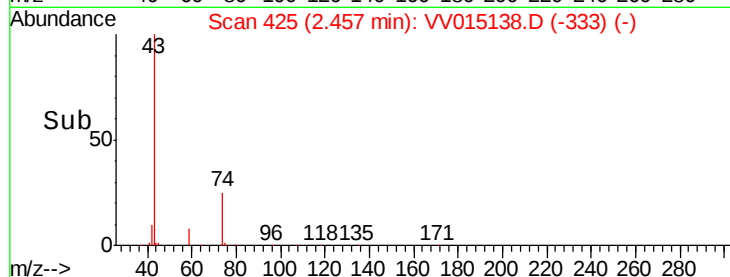
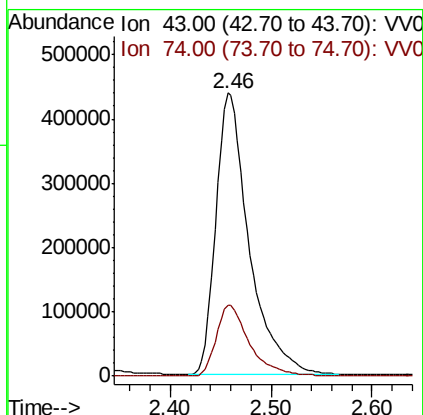
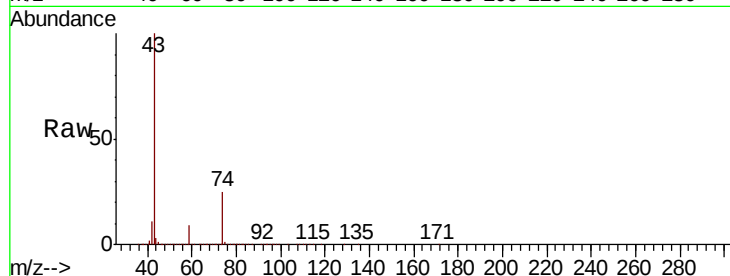




#15  
Methyl Acetate  
Concen: 154.333 ug/L  
RT: 2.46 min Scan# 425  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

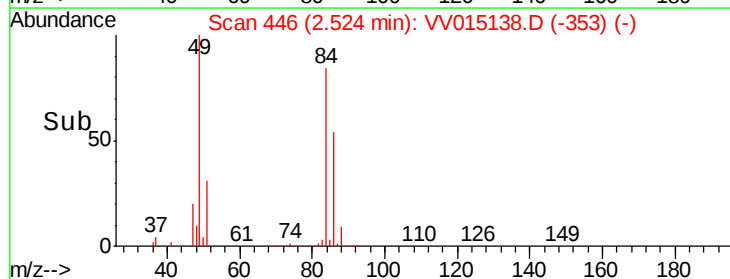
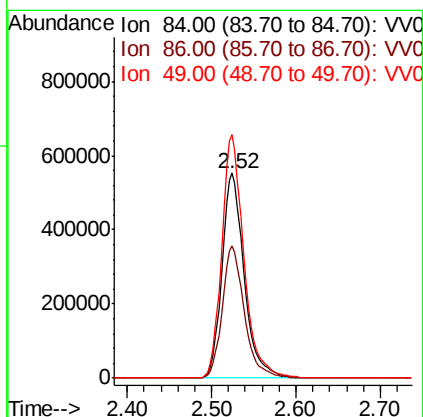
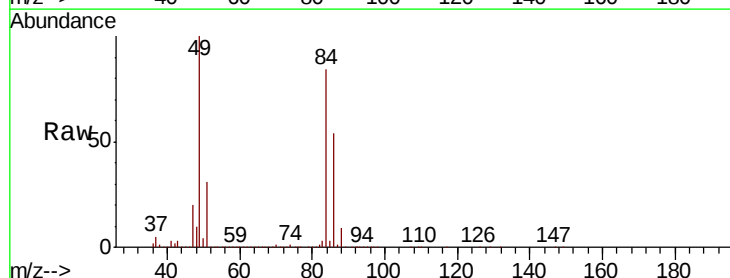
Instrument :  
MSVOA\_V  
ClientSampled :

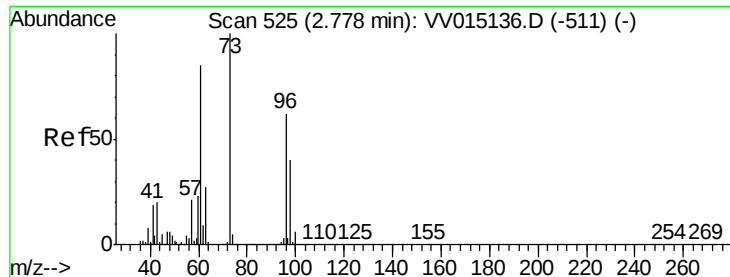
Tot Ion: 43 Resp: 1004135  
Ion Ratio Lower Upper  
43 100  
74 25.4 19.5 29.3



#16  
Methylene chloride  
Concen: 167.104 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Tgt Ion: 84 Resp: 1009155  
Ion Ratio Lower Upper  
84 100  
86 64.8 45.8 85.2  
49 118.9 83.3 154.7





#17

trans-1,2-Dichloroethene

Concen: 195.577 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

ClientSampleId :

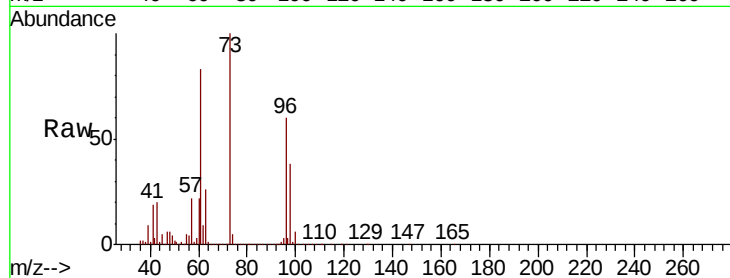
Tot Ion: 96 Resp: 926620

Ion Ratio Lower Upper

96 100

61 137.4 94.8 176.0

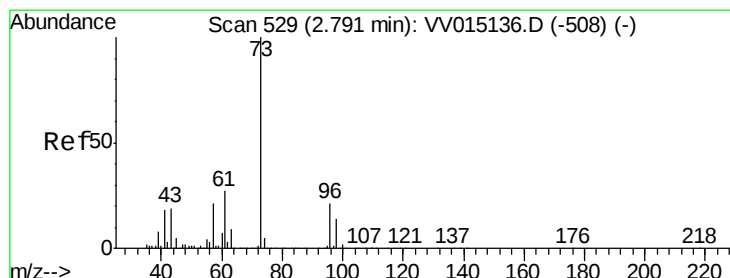
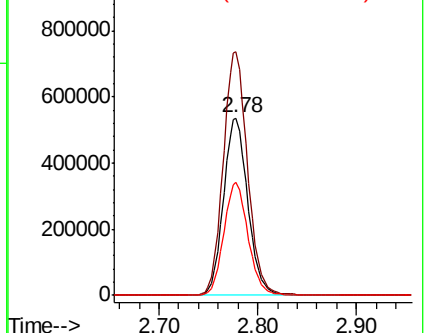
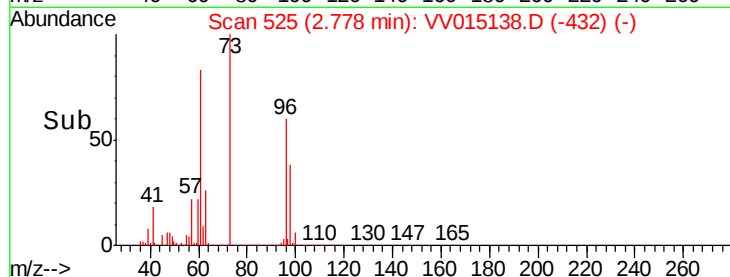
98 63.8 45.4 84.2



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



#18

Methyl tert-butyl Ether

Concen: 160.856 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

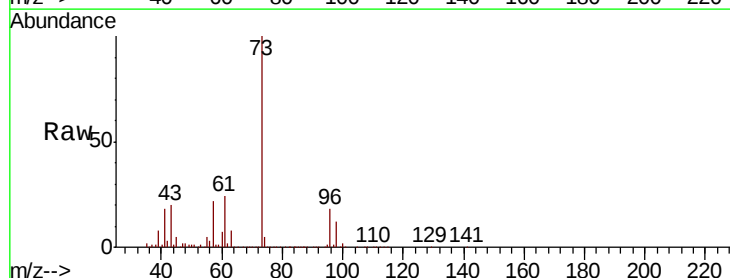
Tgt Ion: 73 Resp: 3085872

Ion Ratio Lower Upper

73 100

43 19.4 15.4 23.0

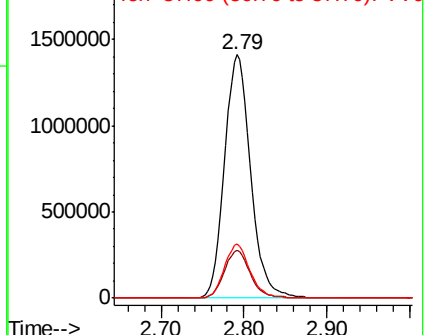
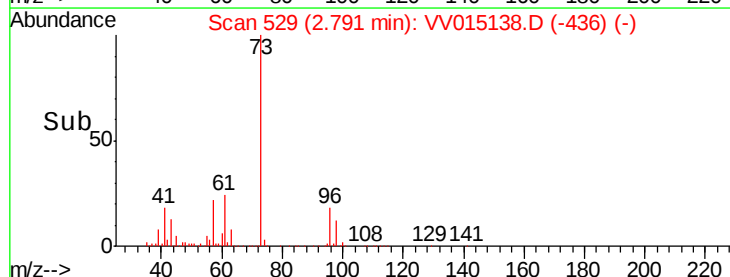
57 21.6 17.0 25.6

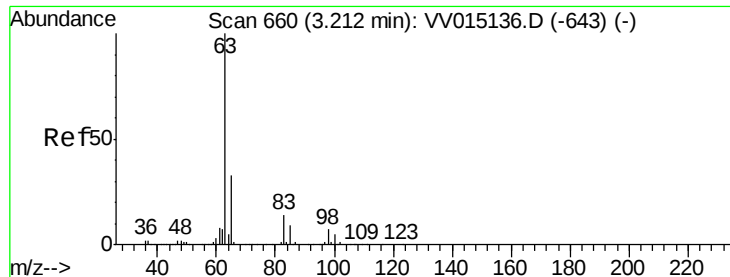


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 175.401 ug/L

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

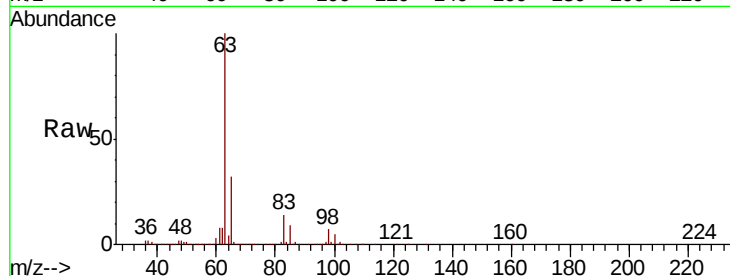
Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 63 Resp: 1693551

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.7  | 22.8  | 42.4  |
| 83  | 13.8  | 9.9   | 18.3  |

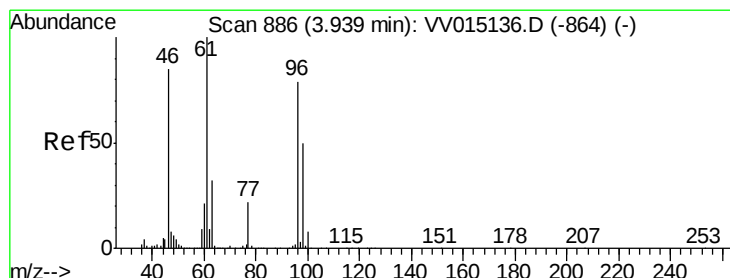
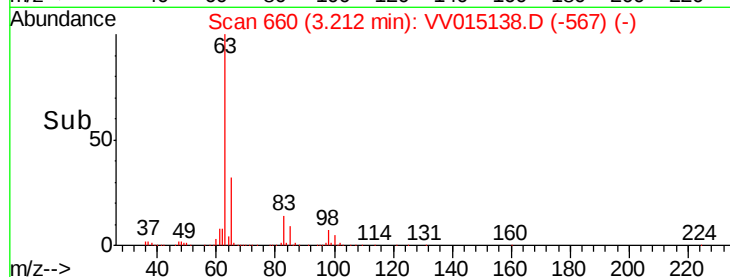
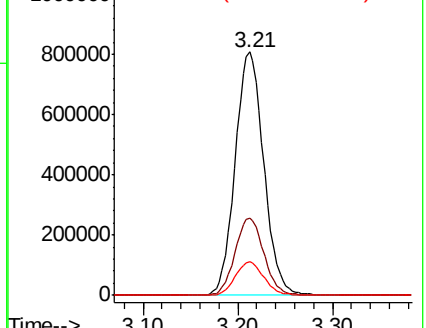


Abundance

Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 180.948 ug/L

RT: 3.94 min Scan# 886

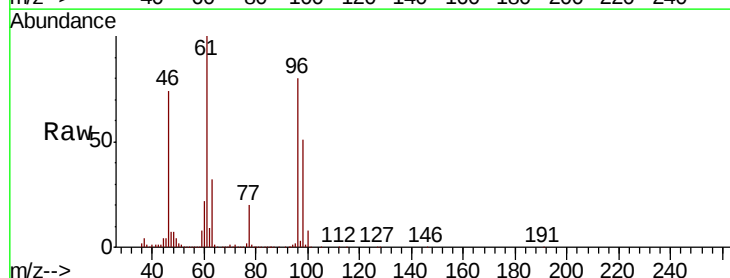
Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion: 96 Resp: 1040464

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 124.3 | 88.3  | 163.9 |
| 68  | 0.0   | 0.1   | 0.3   |

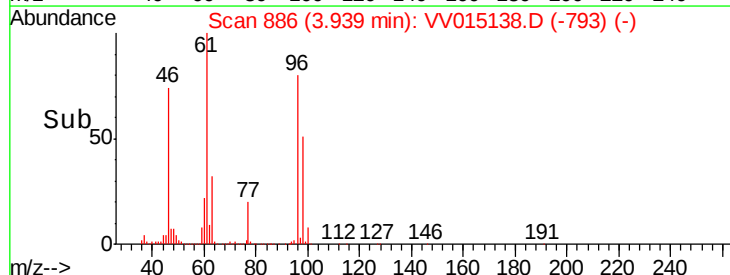
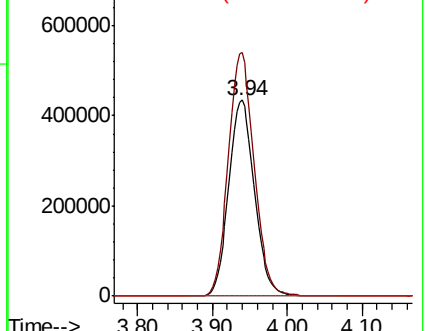


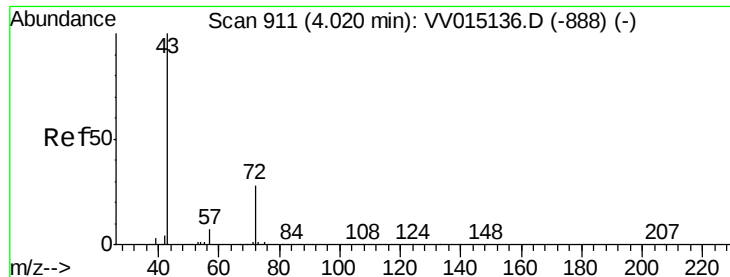
Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 341.607 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.01 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

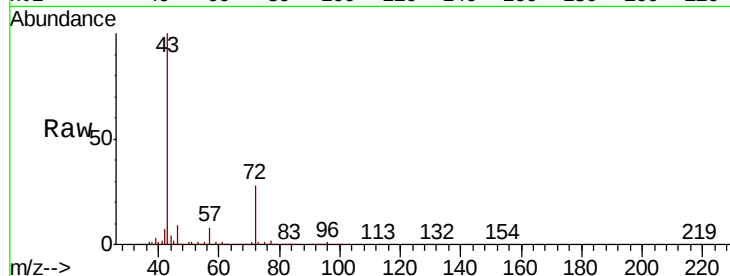
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 1451465

Ion Ratio Lower Upper

43 100

72 27.1 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VV015138.D (-818) (-)

Ion 72.00 (71.70 to 72.70): VV015138.D (-818) (-)

4.01

400000

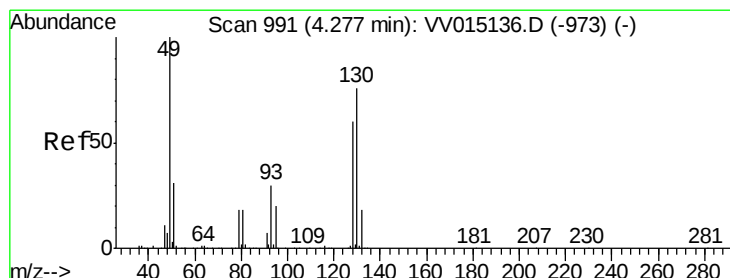
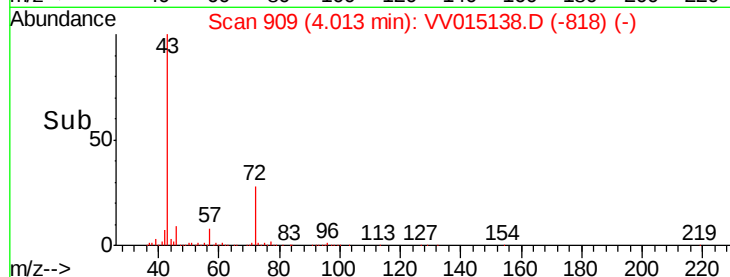
300000

200000

100000

0

Time-->



#23

Bromochloromethane

Concen: 168.460 ug/L

RT: 4.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion:128 Resp: 528184

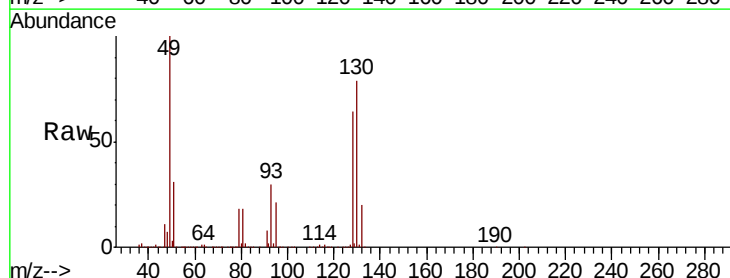
Ion Ratio Lower Upper

128 100

49 156.1 117.1 217.5

130 123.9 89.5 166.1

51 48.8 42.2 63.4



Abundance Ion 128.00 (127.70 to 128.70): VV015138.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV015138.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV015138.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV015138.D (-898) (-)

4.28

500000

400000

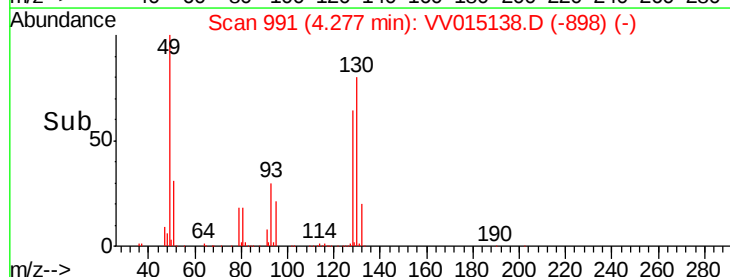
300000

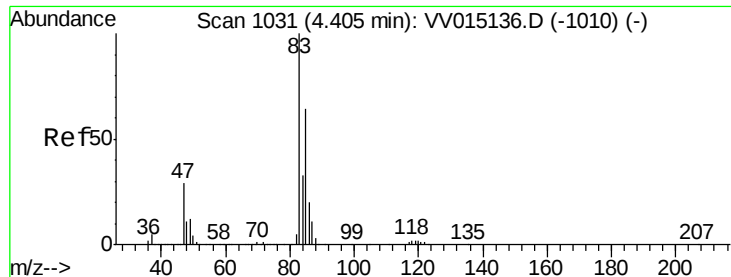
200000

100000

0

Time-->





#25

Chloroform

Concen: 174.270 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

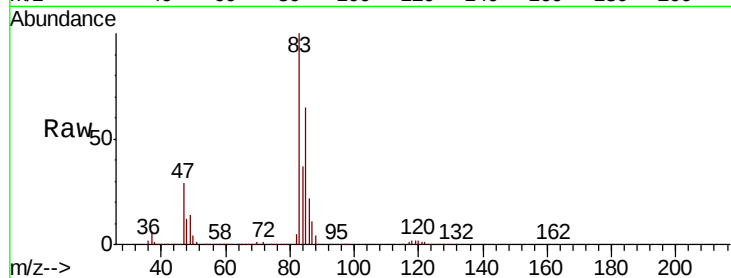
Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 1744754

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.8  | 44.8  | 83.2  |



Abundance Ion 83.00 (82.70 to 83.70): VV015138.D (-938) (-)

Ion 85.00 (84.70 to 85.70): VV015138.D (-938) (-)

4.40

800000

600000

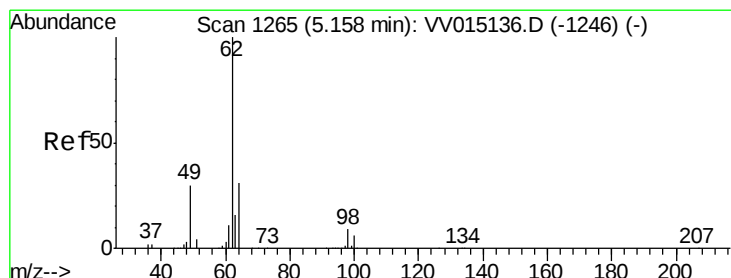
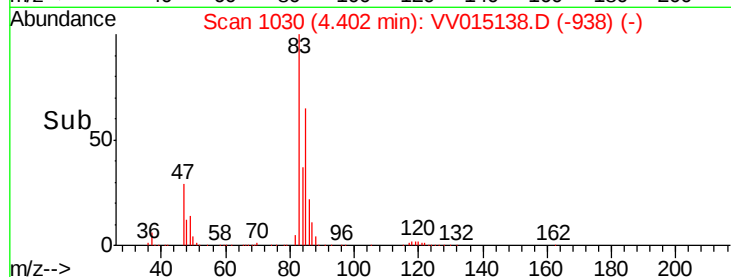
400000

200000

0

Time-->

4.30 4.40 4.50



#27

1,2-Dichloroethane

Concen: 169.966 ug/L

RT: 5.16 min Scan# 1265

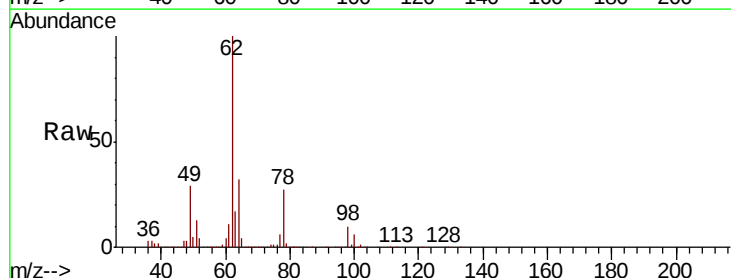
Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion: 62 Resp: 1352431

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 98  | 10.0  | 7.5   | 11.3  |



Abundance Ion 62.00 (61.70 to 62.70): VV015138.D (-1172) (-)

Ion 98.00 (97.70 to 98.70): VV015138.D (-1172) (-)

5.16

600000

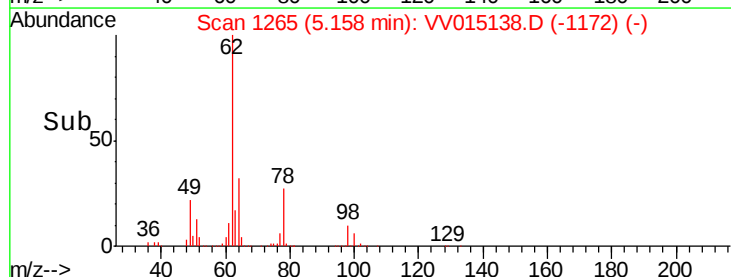
400000

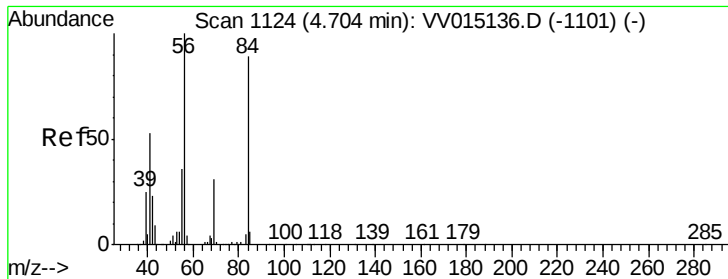
200000

0

Time-->

5.10 5.20 5.30

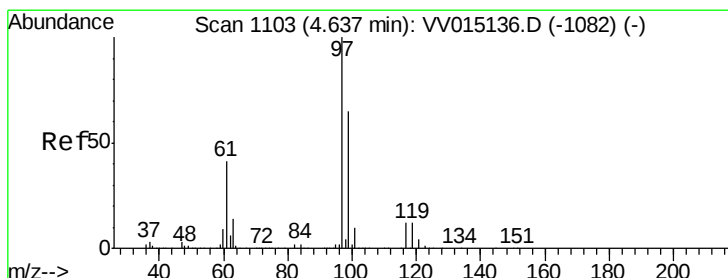
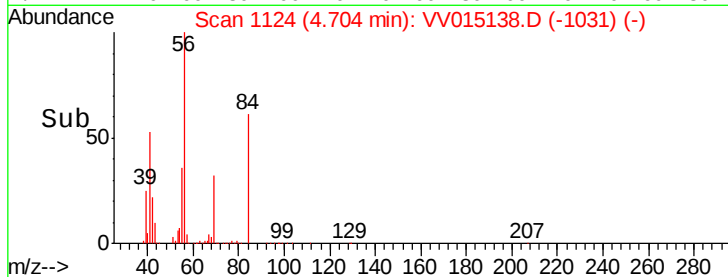
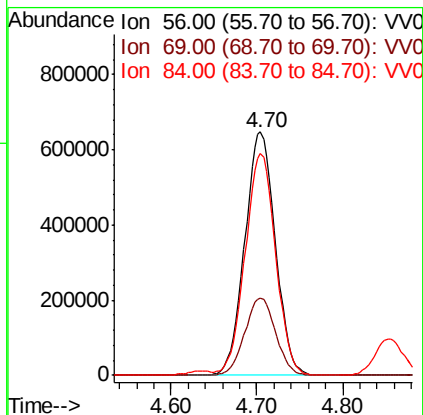
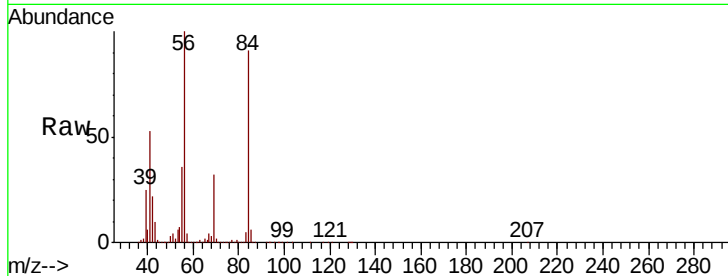




#29  
Cyclohexane  
Concen: 258.141 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

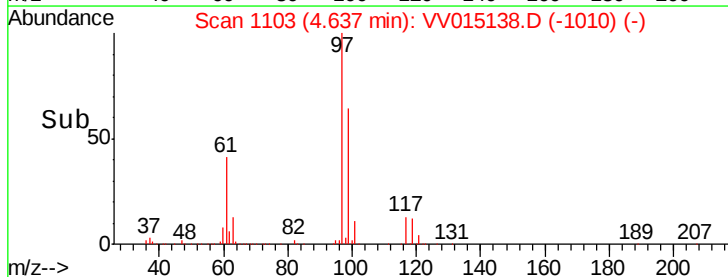
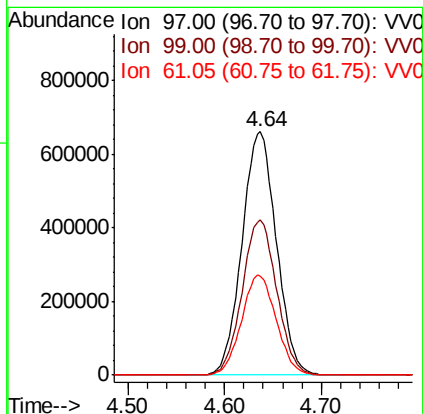
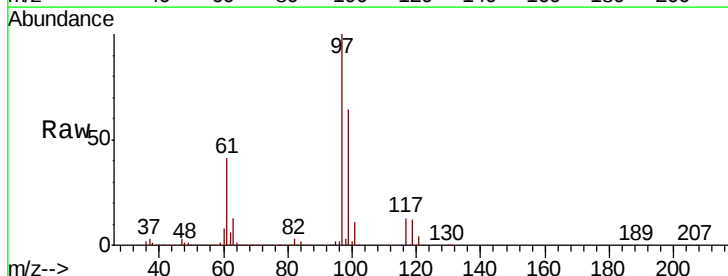
Instrument :  
MSVOA\_V  
ClientSampleId :

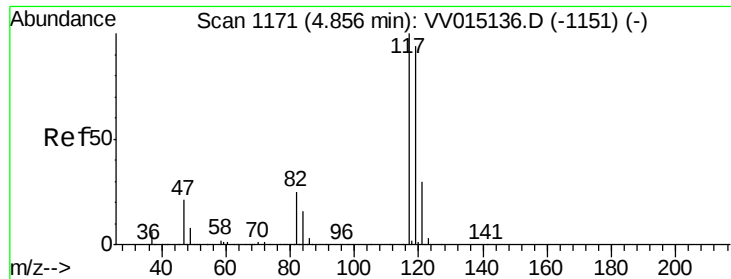
Tot Ion: 56 Resp: 1593037  
Ion Ratio Lower Upper  
56 100  
69 32.1 25.4 38.2  
84 91.2 74.0 111.0



#30  
1,1,1-Trichloroethane  
Concen: 203.926 ug/L  
RT: 4.64 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Tgt Ion: 97 Resp: 1628887  
Ion Ratio Lower Upper  
97 100  
99 64.2 52.5 78.7  
61 41.6 33.2 49.8



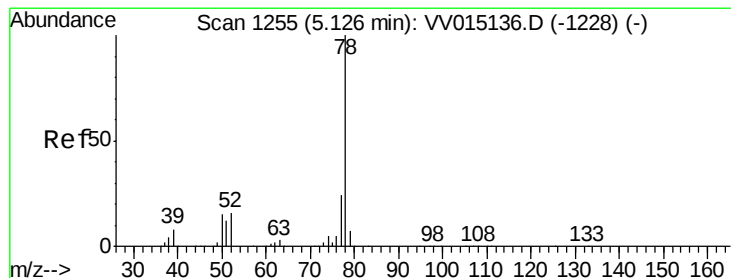
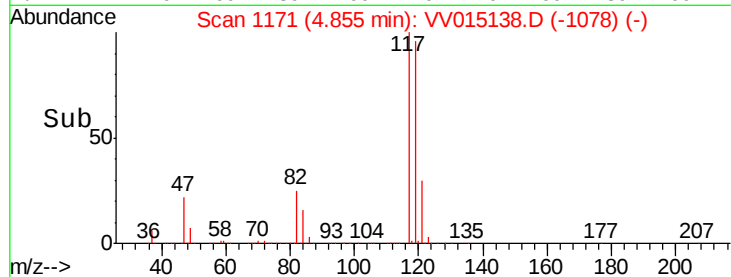
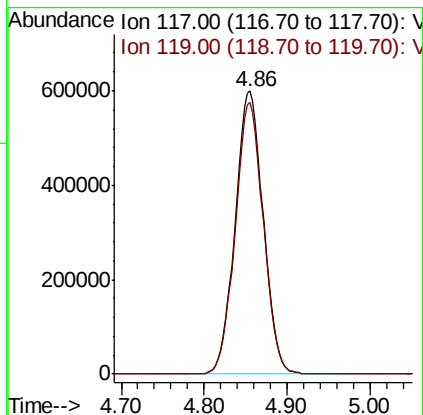
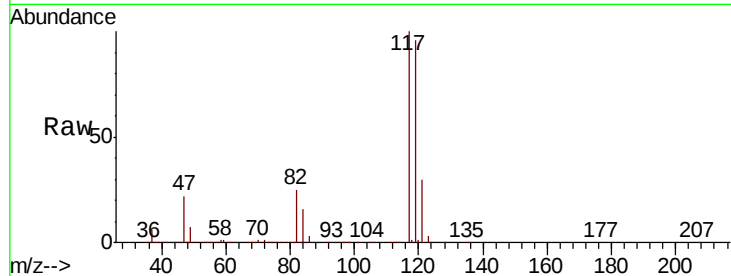


#31

Carbon tetrachloride  
 Concen: 222.139 ug/L  
 RT: 4.86 min Scan# 1171  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

Instrument :  
 MSVOA\_V  
 ClientSampleId :

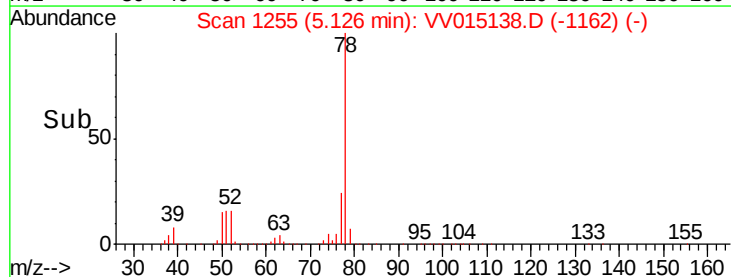
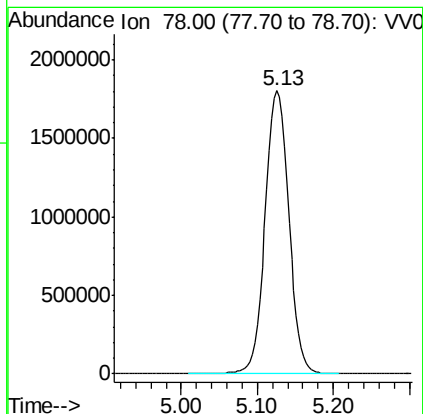
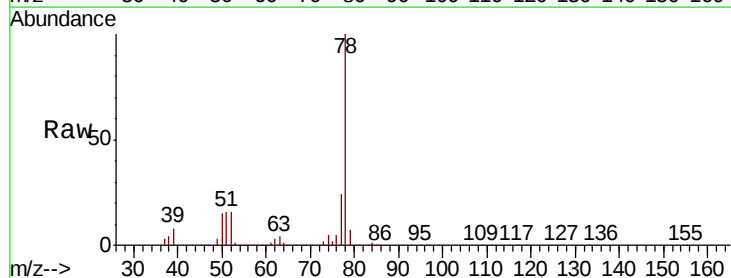
Tot Ion:117 Resp: 1411507  
 Ion Ratio Lower Upper  
 117 100  
 119 96.0 76.2 114.4

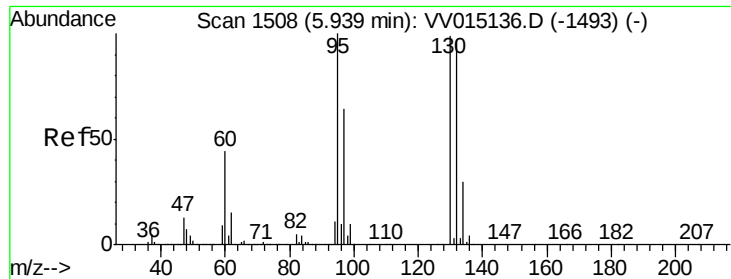


#33

Benzene  
 Concen: 181.809 ug/L  
 RT: 5.13 min Scan# 1255  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

Tgt Ion: 78 Resp: 3893242



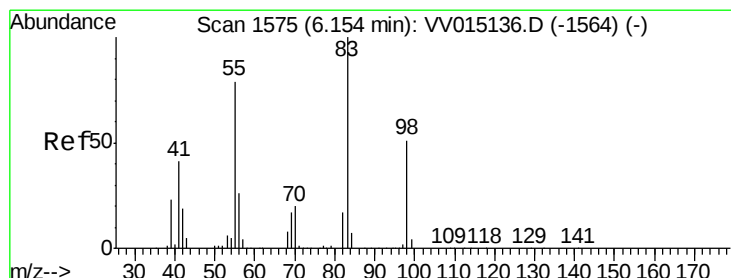
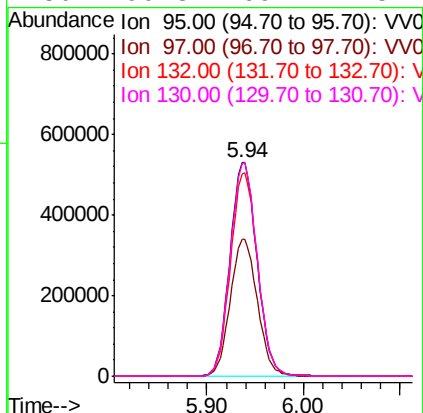
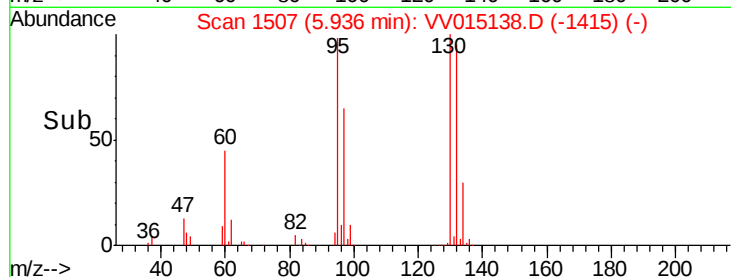
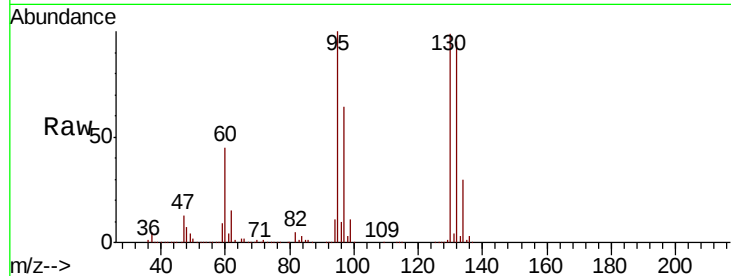


#34  
 Trichloroethene  
 Concen: 205.120 ug/L  
 RT: 5.94 min Scan# 1507  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 95 Resp: 1030677  

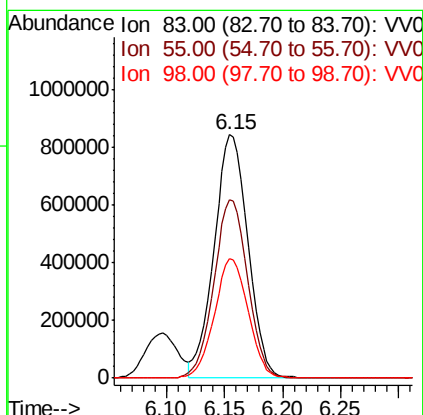
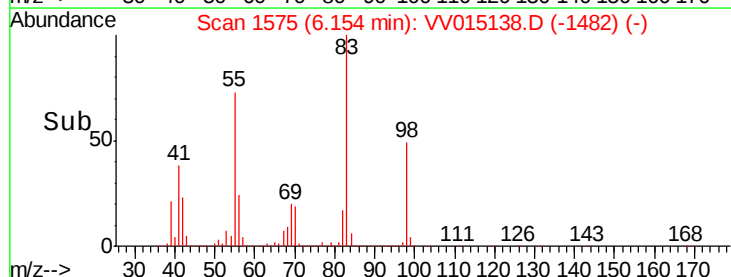
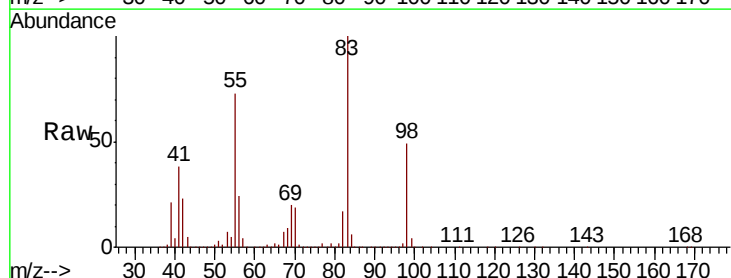
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 44.4  | 82.4  |
| 132 | 94.7  | 67.6  | 125.6 |
| 130 | 99.3  | 69.2  | 128.4 |

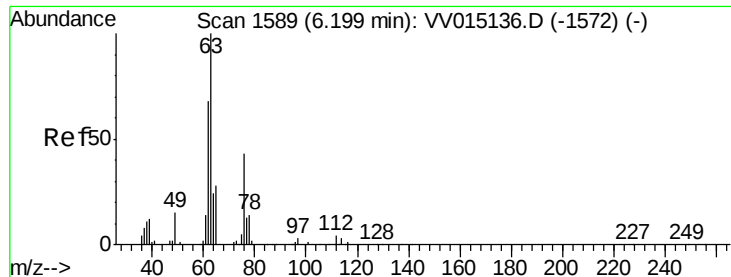


#35  
 Methylcyclohexane  
 Concen: 274.561 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

Tgt Ion: 83 Resp: 1711527  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 72.8  | 59.5  | 89.3  |
| 98  | 49.1  | 39.1  | 58.7  |





#37

1,2-Dichloropropane

Concen: 171.192 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

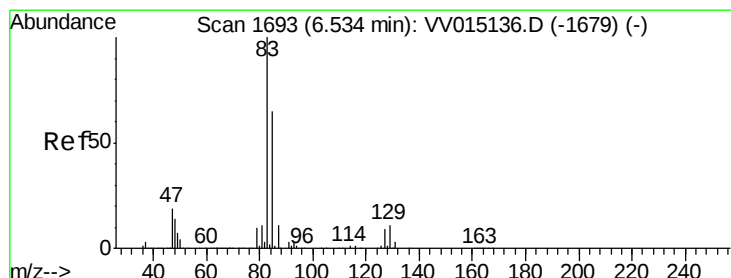
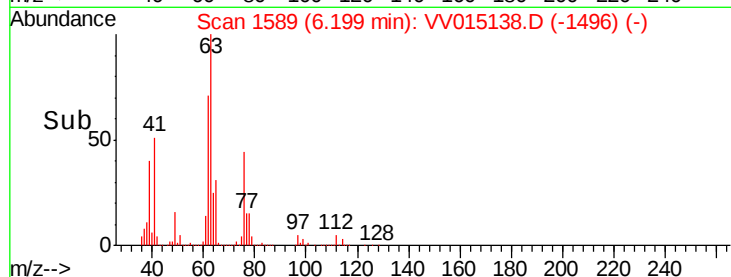
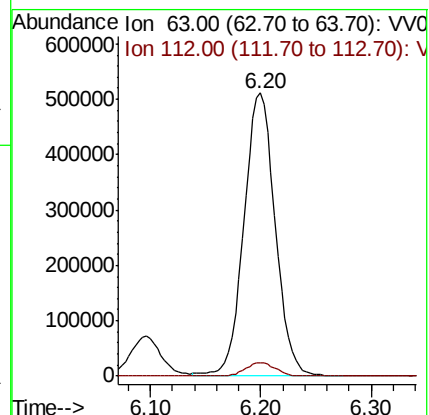
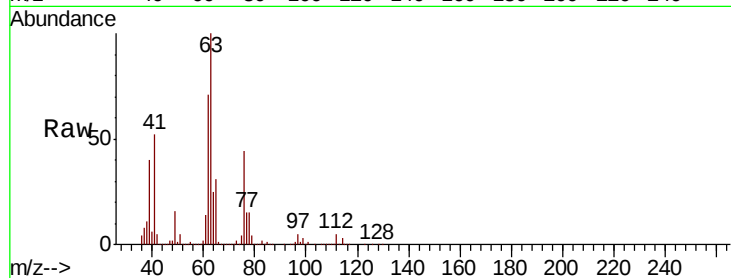
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 63 Resp: 1000917

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.6



#38

Bromodichloromethane

Concen: 167.546 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

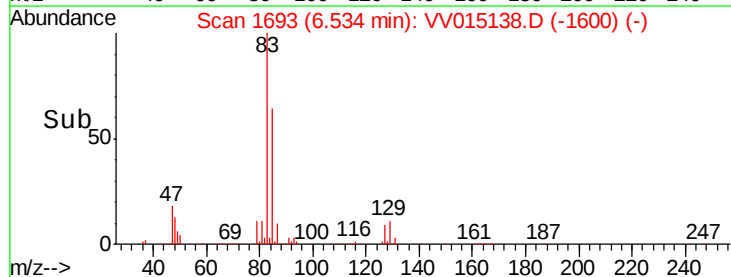
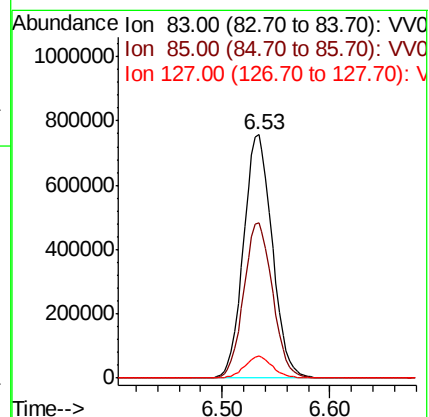
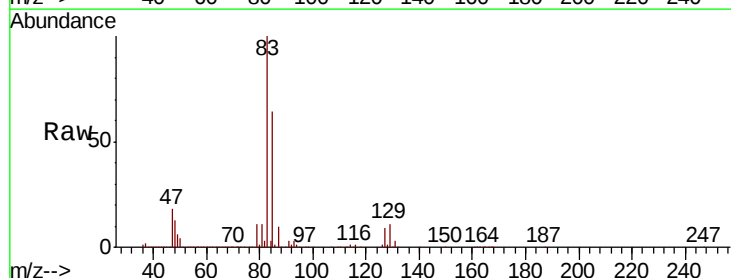
Tgt Ion: 83 Resp: 1402217

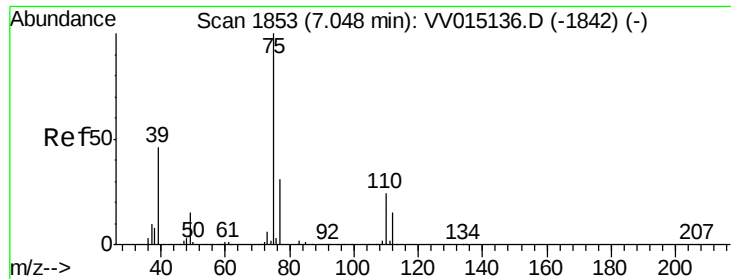
Ion Ratio Lower Upper

83 100

85 64.0 45.4 84.4

127 8.9 6.9 10.3

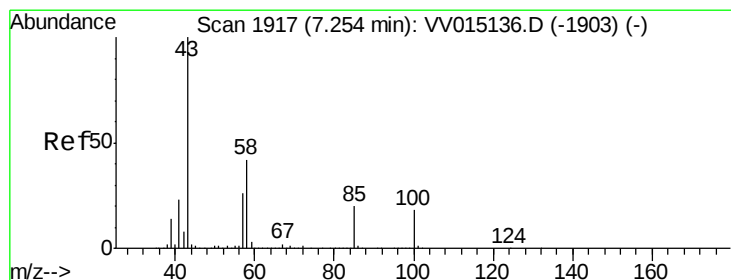
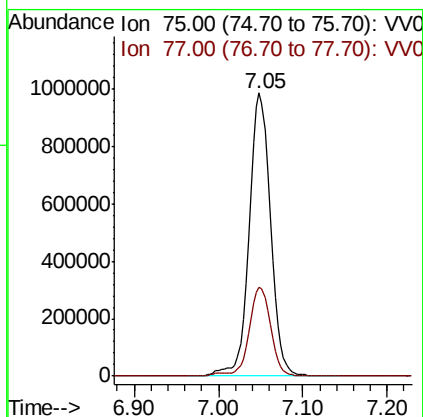
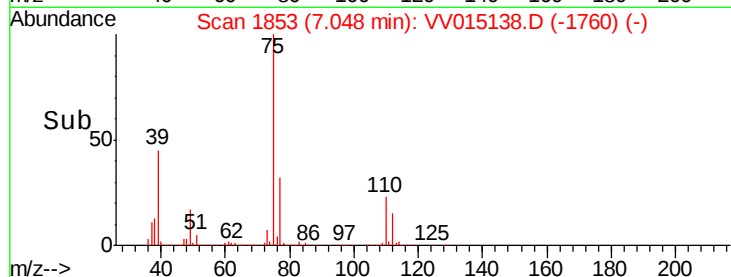
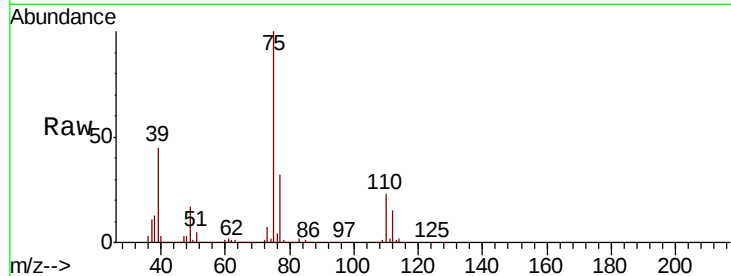




#39  
 cis-1,3-Dichloropropene  
 Concen: 184.456 ug/L  
 RT: 7.05 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

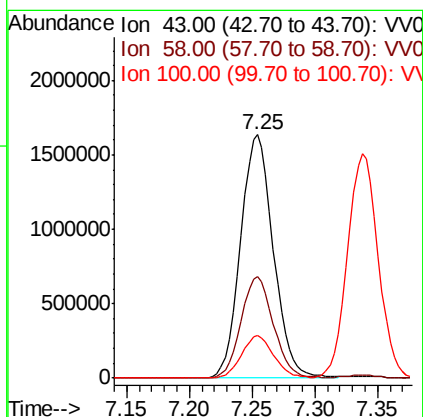
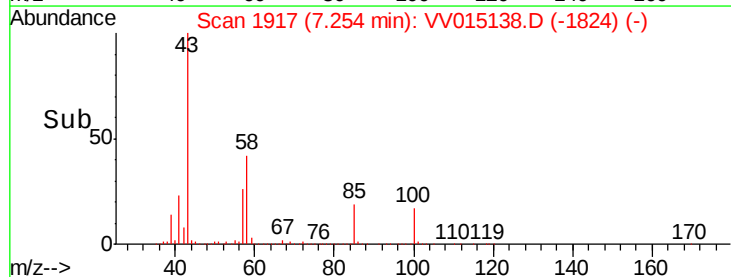
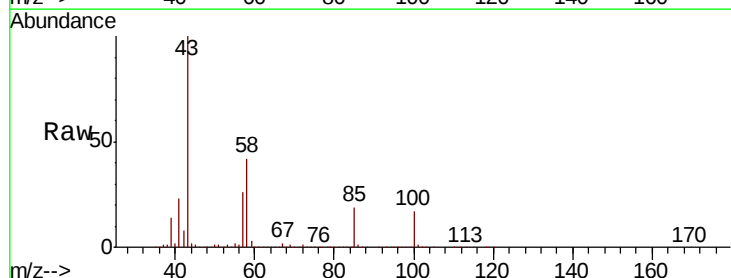
Instrument :  
 MSVOA\_V  
 ClientSampled :

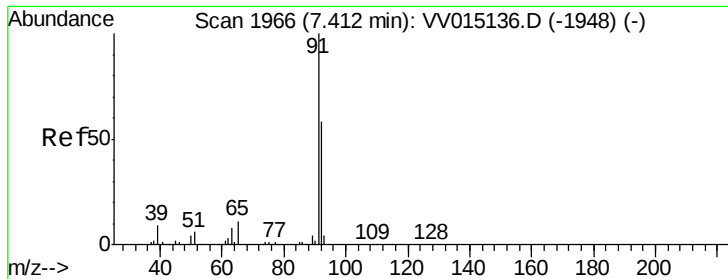
Tot Ion: 75 Resp: 1742175  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 22.1 41.1



#40  
 4-Methyl-2-pentanone  
 Concen: 303.678 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

Tgt Ion: 43 Resp: 2974371  
 Ion Ratio Lower Upper  
 43 100  
 58 41.4 32.5 48.7  
 100 17.1 13.8 20.8





#42

Toluene

Concen: 197.474 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

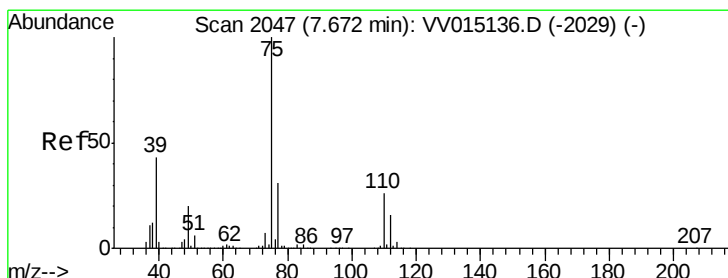
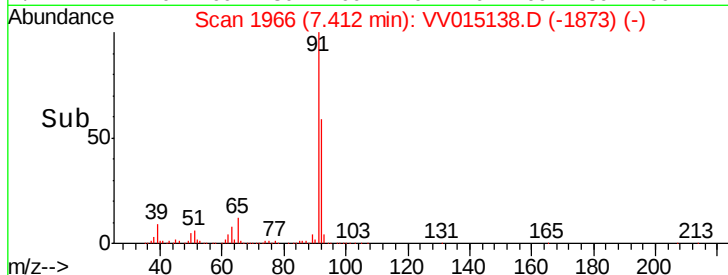
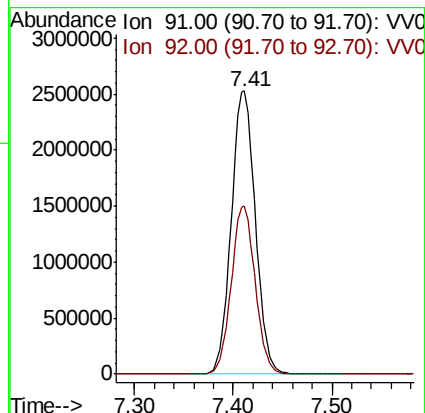
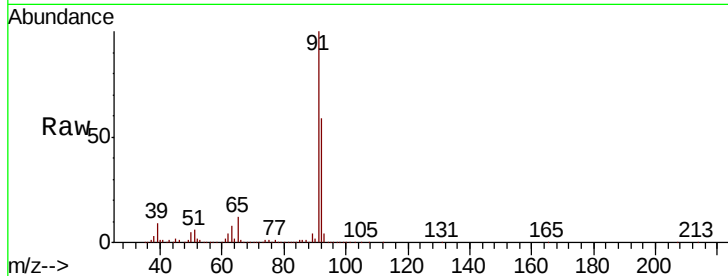
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 4311864

Ion Ratio Lower Upper

91 100

92 59.2 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 178.089 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV015138.D

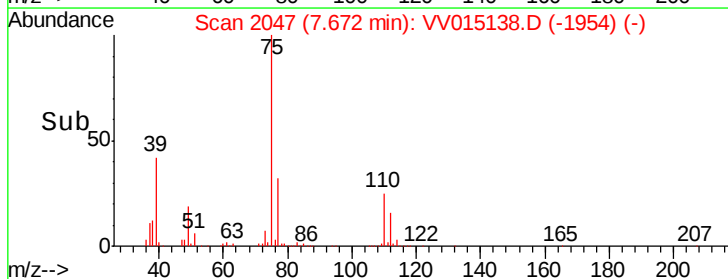
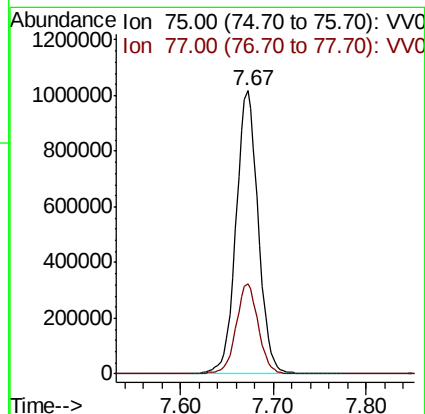
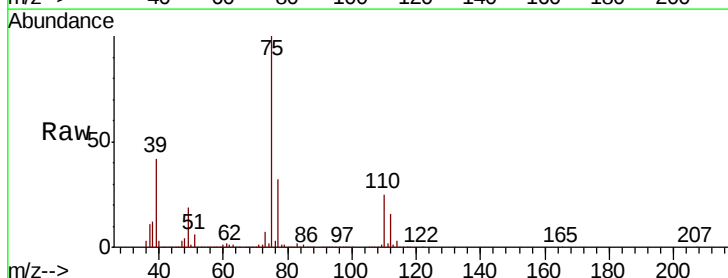
Acq: 25 Mar 2020 12:34

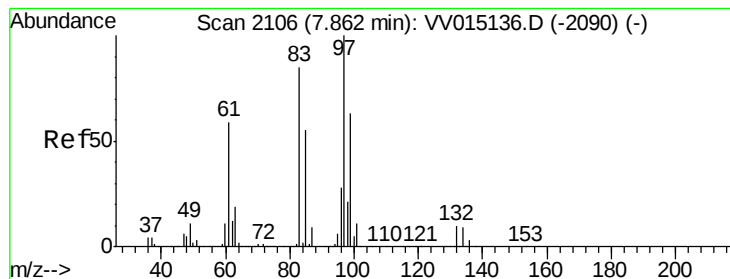
Tgt Ion: 75 Resp: 1687017

Ion Ratio Lower Upper

75 100

77 32.0 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 160.158 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

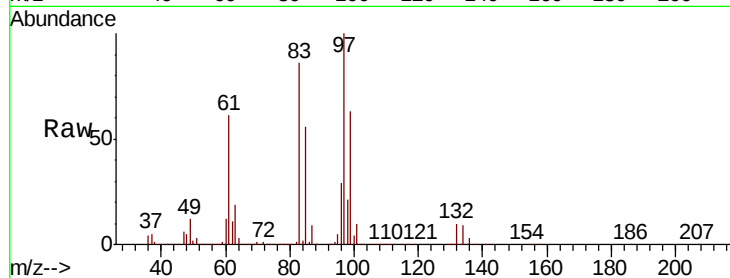
Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 97 Resp: 974354

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.9  | 44.2  | 82.2  |
| 83  | 85.5  | 59.9  | 111.3 |
| 85  | 55.5  | 38.6  | 71.8  |



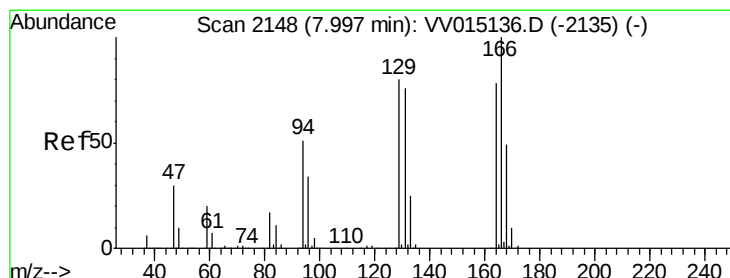
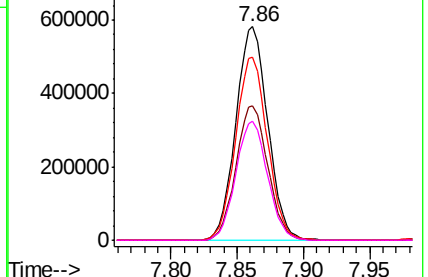
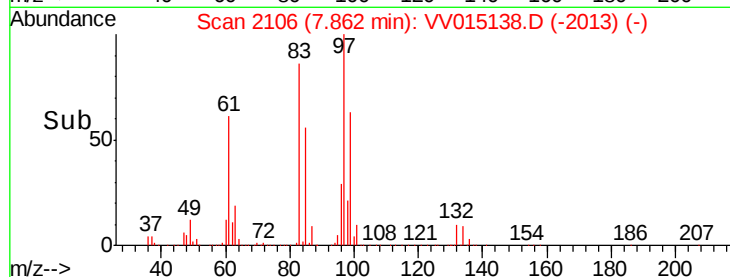
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 232.645 ug/L

RT: 8.00 min Scan# 2148

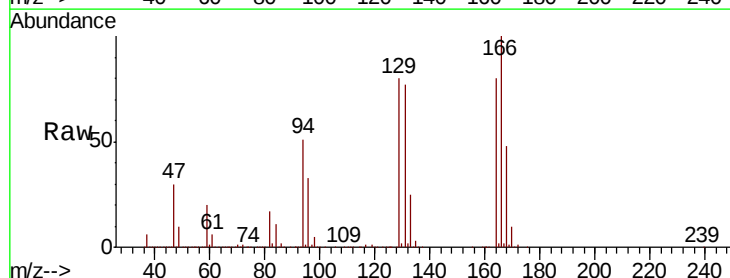
Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion:164 Resp: 753482

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 100.4 | 71.2  | 132.2 |
| 131 | 96.4  | 67.8  | 125.8 |
| 166 | 124.8 | 89.2  | 165.8 |



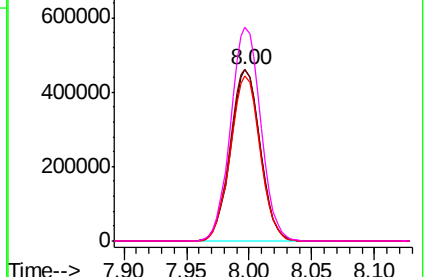
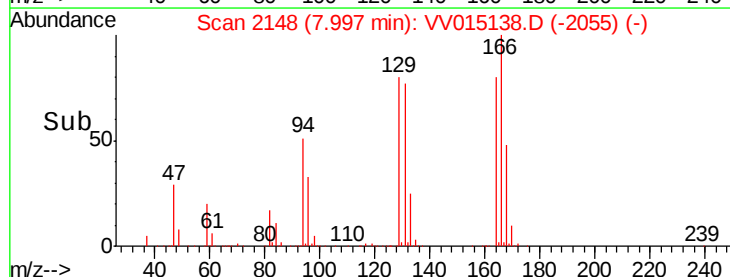
Abundance

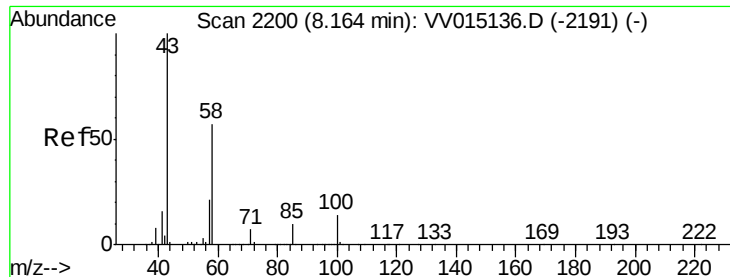
Ion 164.00 (163.70 to 164.70): V

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



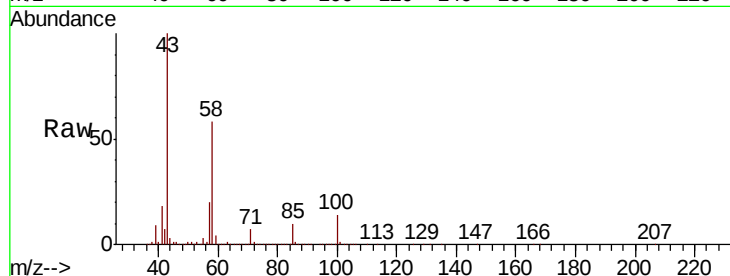


#48  
2-Hexanone  
Concen: 327.817 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 2358781

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 57.9  | 47.0  | 70.6  |
| 57  | 19.8  | 16.5  | 24.7  |
| 100 | 13.5  | 10.9  | 16.3  |



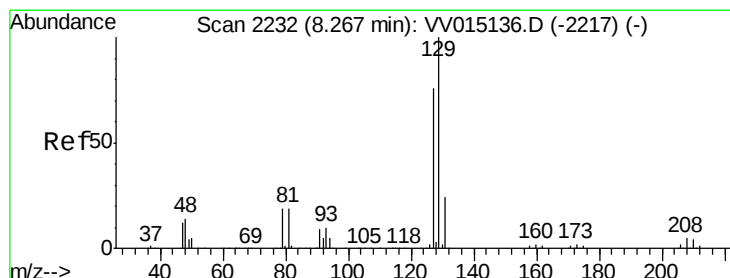
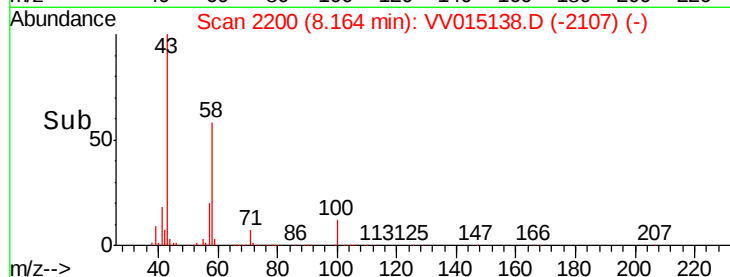
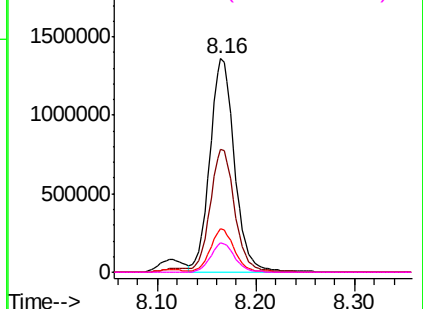
Abundance

Ion 43.00 (42.70 to 43.70): VV015138.D (-2191) (-)

Ion 58.00 (57.70 to 58.70): VV015138.D (-2191) (-)

Ion 57.00 (56.70 to 57.70): VV015138.D (-2191) (-)

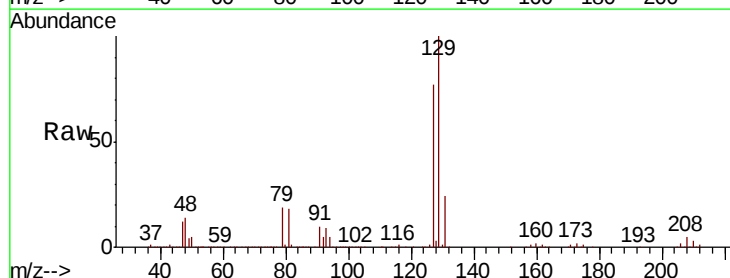
Ion 100.00 (99.70 to 100.70): VV015138.D (-2191) (-)



#49  
Dibromochloromethane  
Concen: 166.750 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Tgt Ion: 129 Resp: 1138695

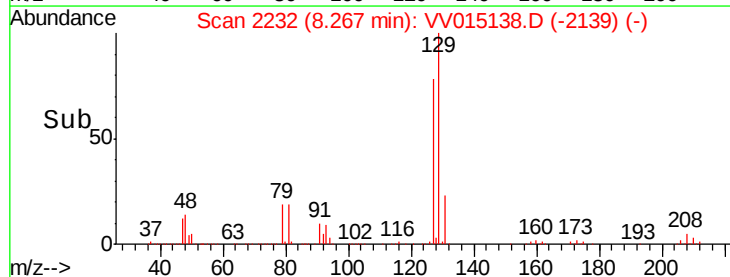
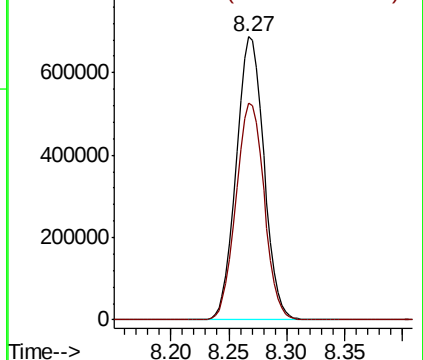
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 76.5  | 53.4  | 99.2  |

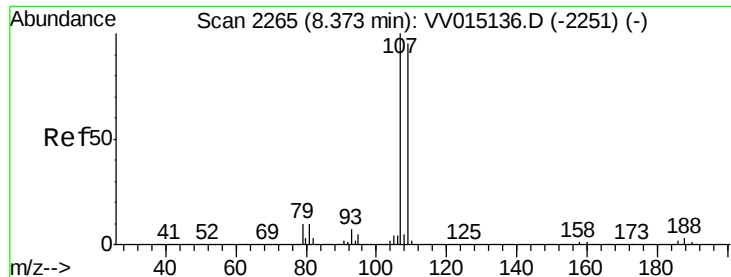


Abundance

Ion 129.00 (128.70 to 129.70): VV015138.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VV015138.D (-2217) (-)

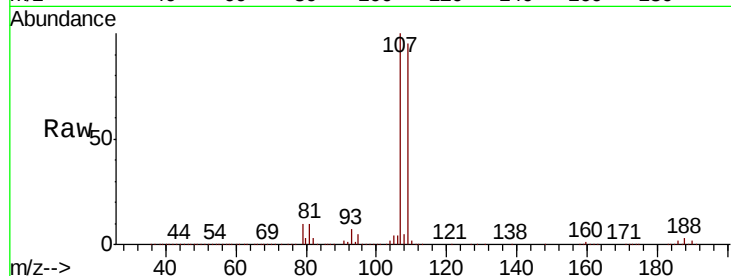




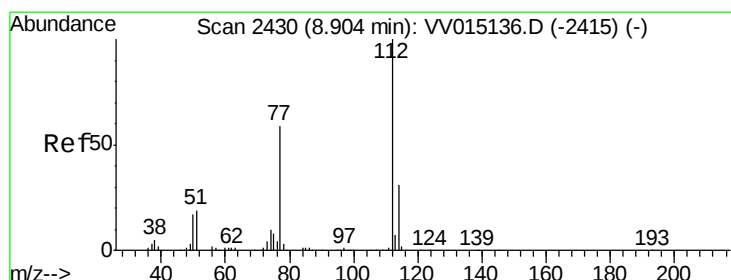
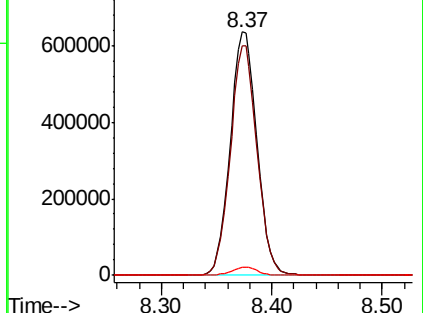
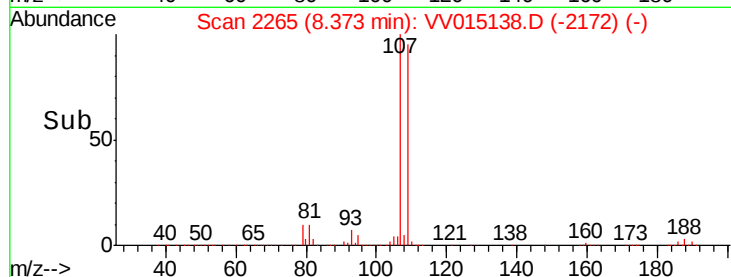
#50  
1,2-Dibromoethane  
Concen: 163.113 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:107 Resp: 1067821  
Ion Ratio Lower Upper  
107 100  
109 94.5 66.6 123.6  
188 3.3 2.5 3.7

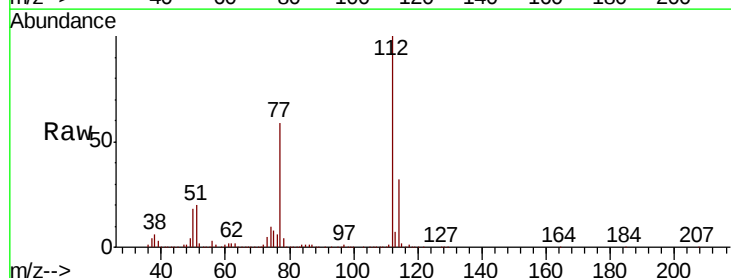


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

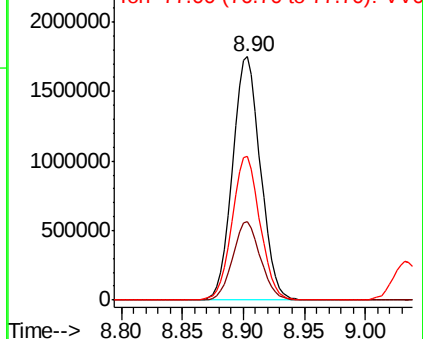
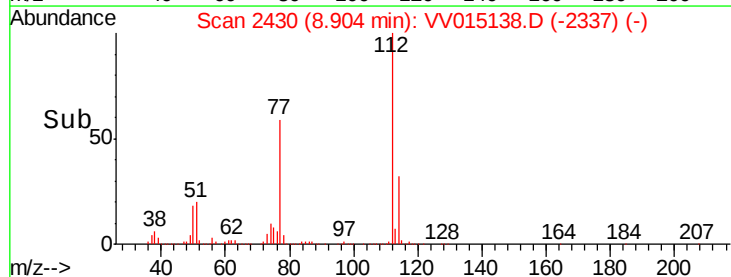


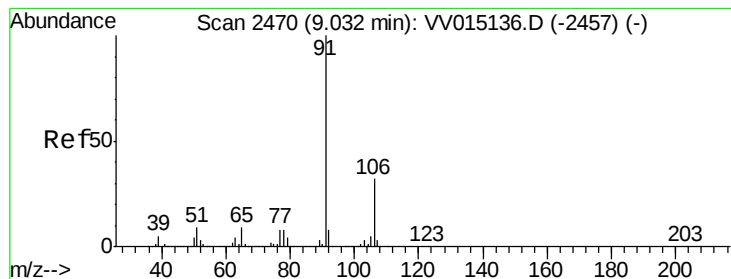
#51  
Chlorobenzene  
Concen: 193.366 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Tgt Ion:112 Resp: 2784773  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.0 40.8  
77 59.0 47.2 70.8



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





#52

Ethylbenzene

Concen: 217.610 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

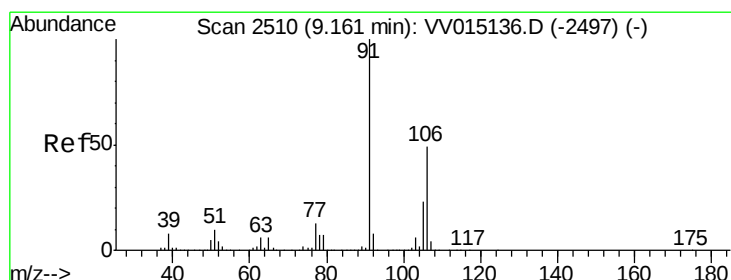
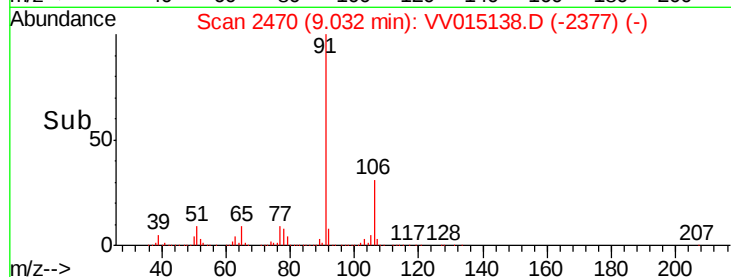
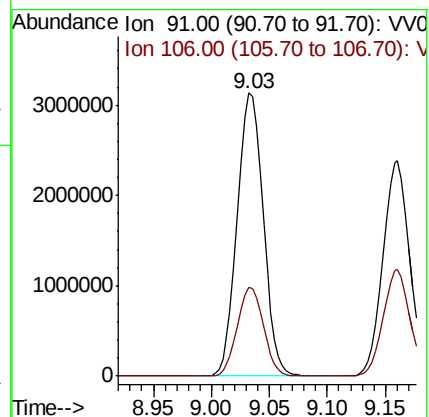
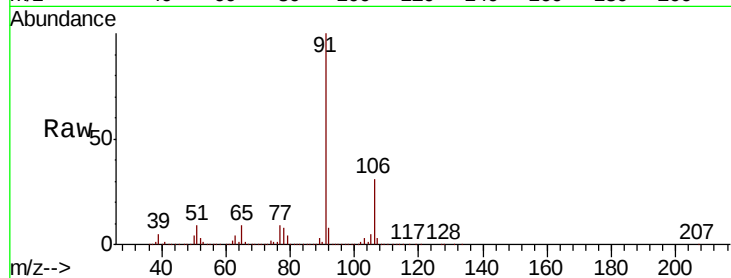
ClientSampleId :

Tot Ion: 91 Resp: 4883255

Ion Ratio Lower Upper

91 100

106 31.5 22.2 41.2



#53

m,p-Xylene

Concen: 220.106 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. -0.00 min

Lab File: VV015138.D

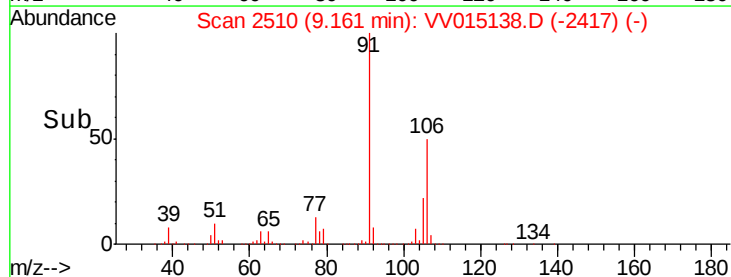
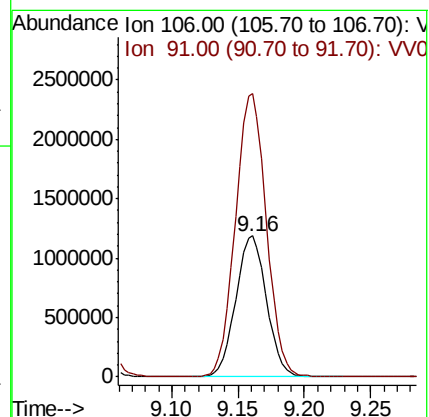
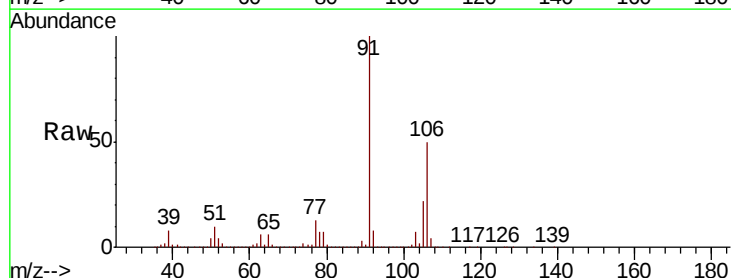
Acq: 25 Mar 2020 12:34

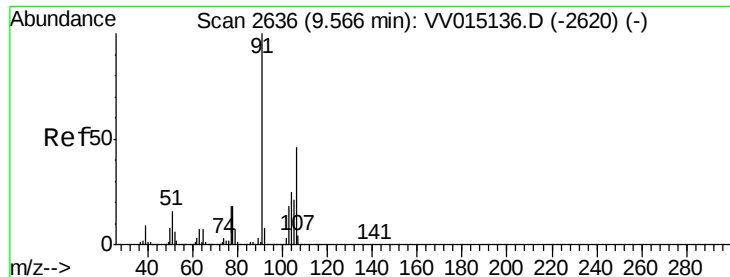
Tgt Ion: 106 Resp: 1908368

Ion Ratio Lower Upper

106 100

91 201.2 143.3 266.1





#54

o-xylene

Concen: 204.801 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

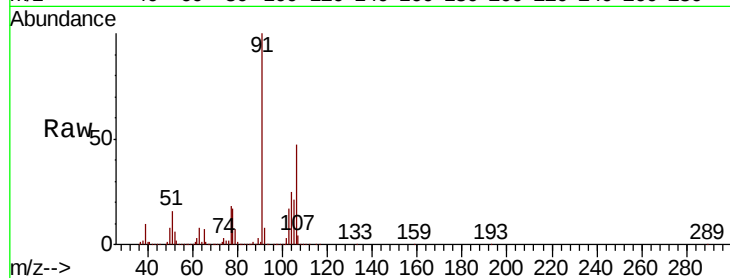
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 1868378

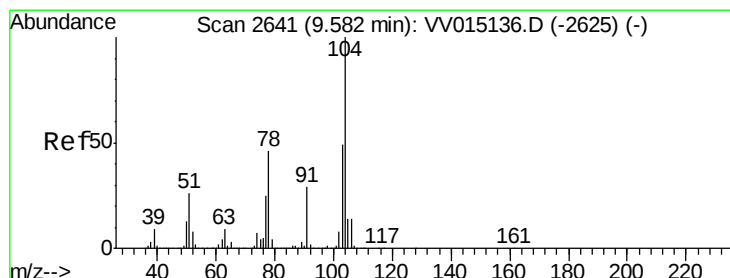
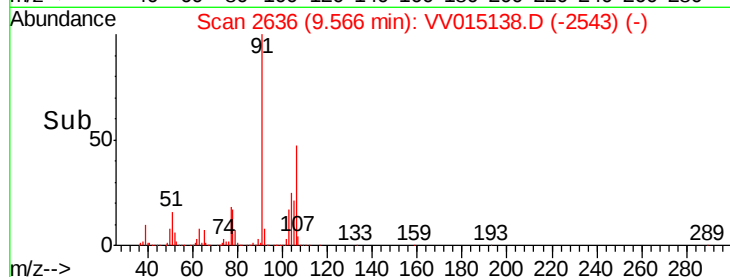
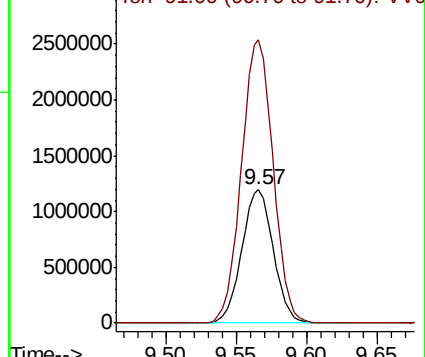
Ion Ratio Lower Upper

106 100

91 212.4 151.5 281.5



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



#55

Styrene

Concen: 202.740 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV015138.D

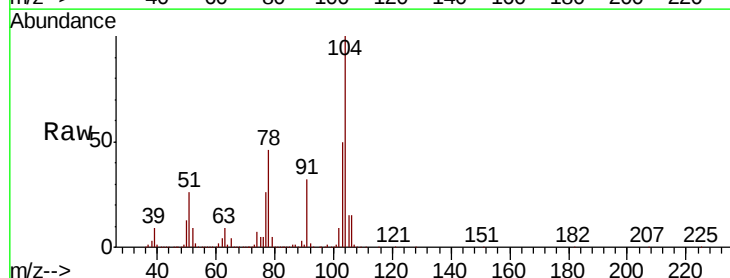
Acq: 25 Mar 2020 12:34

Tgt Ion:104 Resp: 3252496

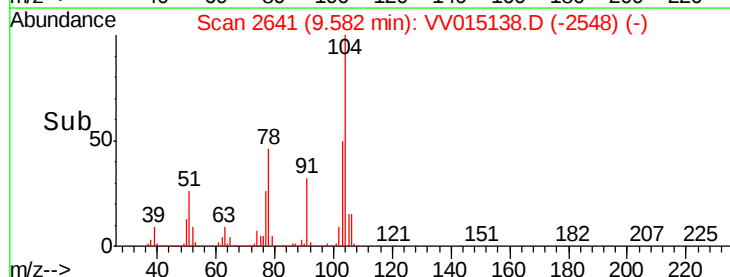
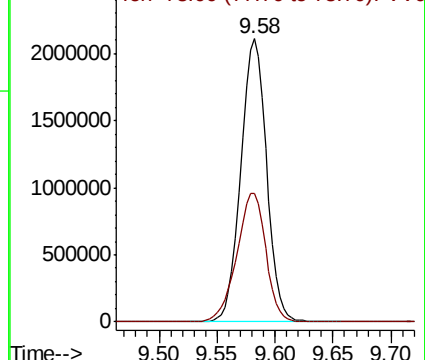
Ion Ratio Lower Upper

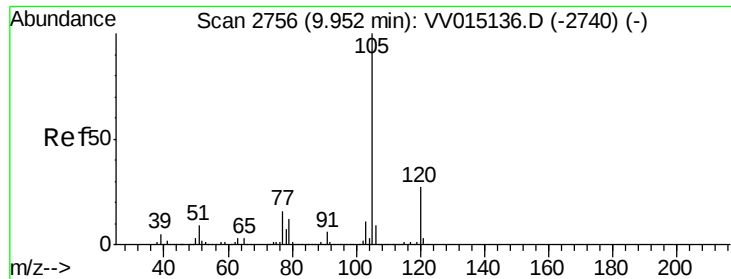
104 100

78 45.6 32.0 59.4



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

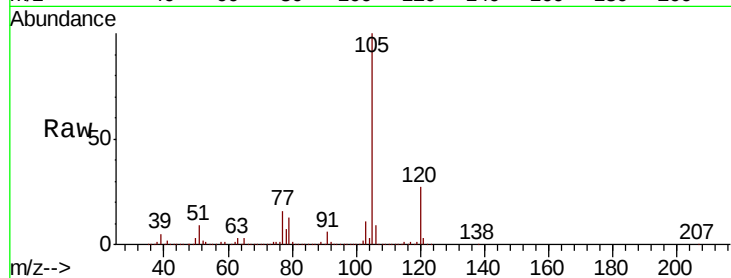




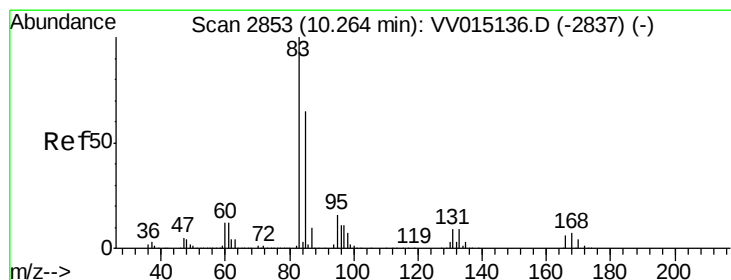
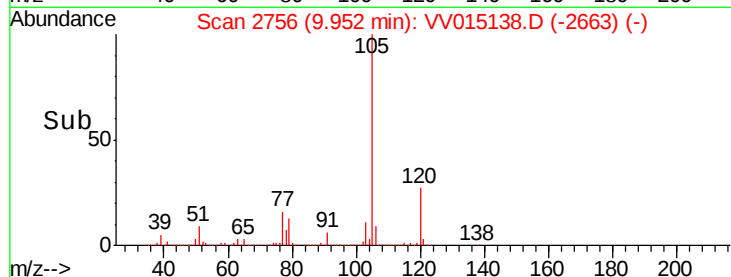
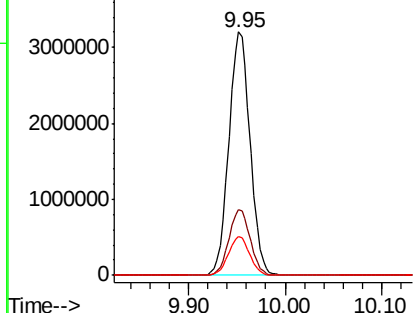
#56  
Isopropylbenzene  
Concen: 230.467 ug/L  
RT: 9.95 min Scan# 2756  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:105 Resp: 4873168  
Ion Ratio Lower Upper  
105 100  
120 26.9 21.4 32.2  
77 15.9 12.5 18.7

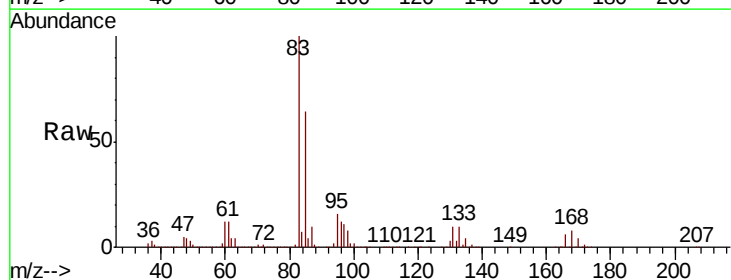


Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V  
Ion 77.00 (76.70 to 77.70): V

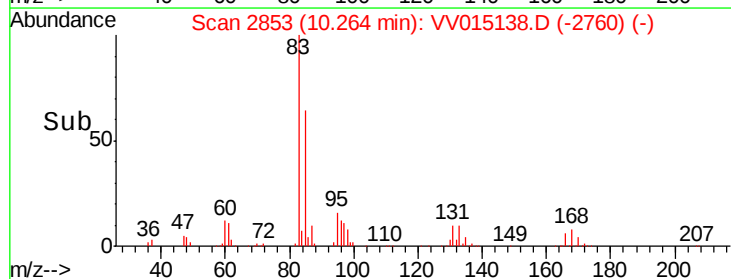
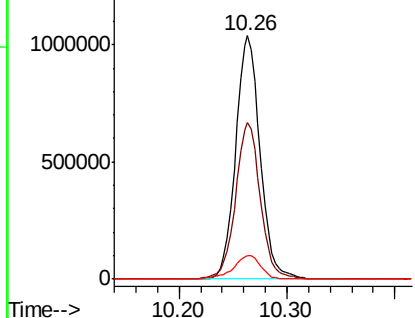


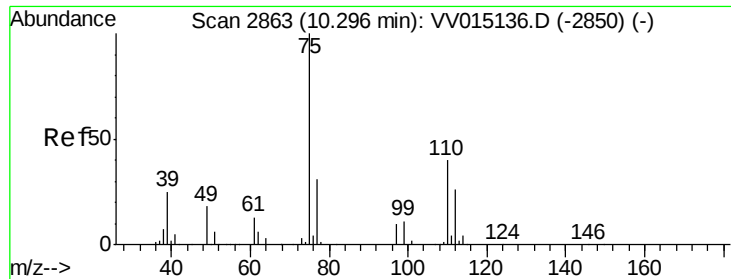
#58  
1,1,2,2-Tetrachloroethane  
Concen: 162.296 ug/L  
RT: 10.26 min Scan# 2853  
Delta R.T. -0.00 min  
Lab File: VV015138.D  
Acq: 25 Mar 2020 12:34

Tgt Ion: 83 Resp: 1635985  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.8 85.2  
131 9.8 7.7 11.5



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: 158.943 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

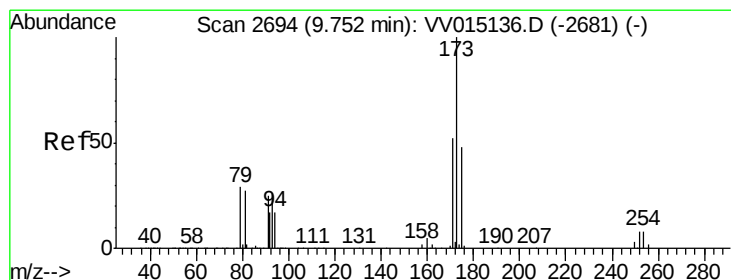
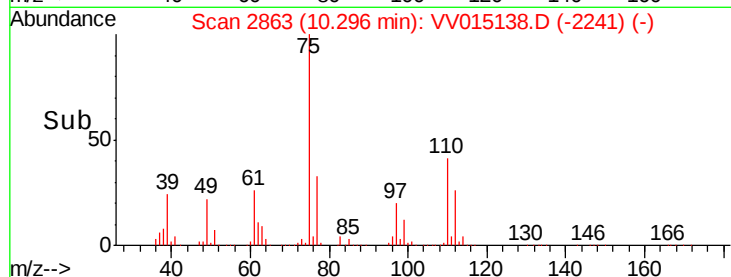
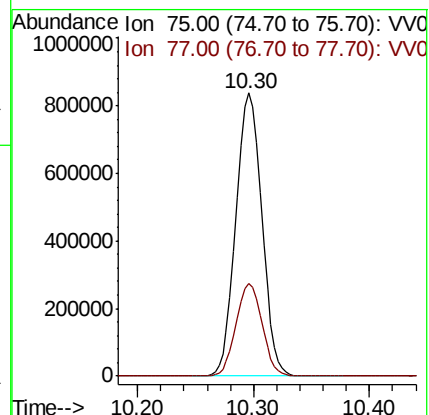
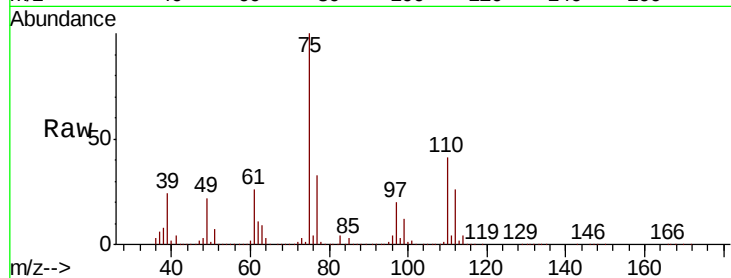
ClientSampleId :

Tot Ion: 75 Resp: 1294295

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.6



#61

Bromoform

Concen: 152.807 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

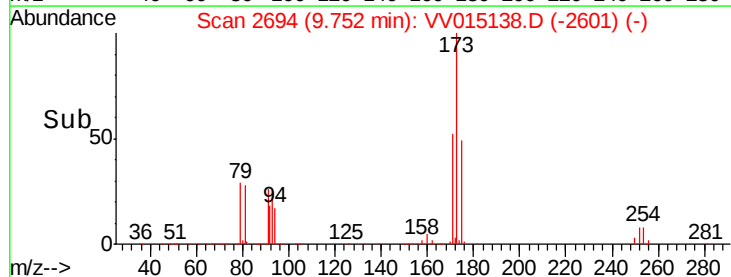
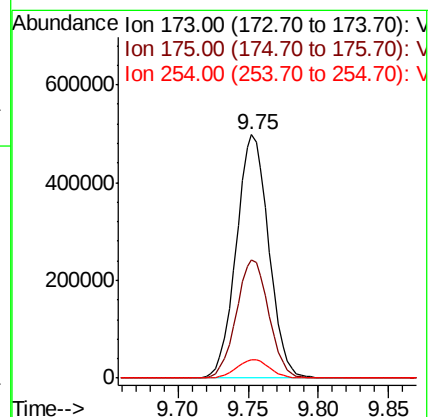
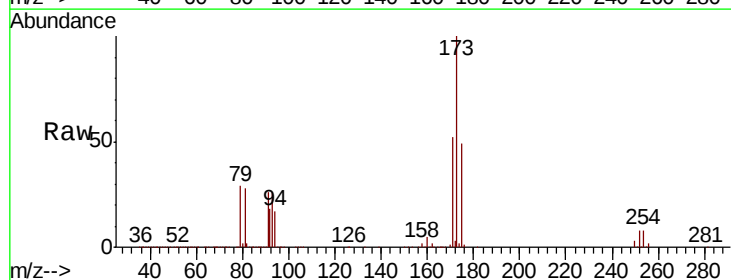
Tgt Ion: 173 Resp: 802820

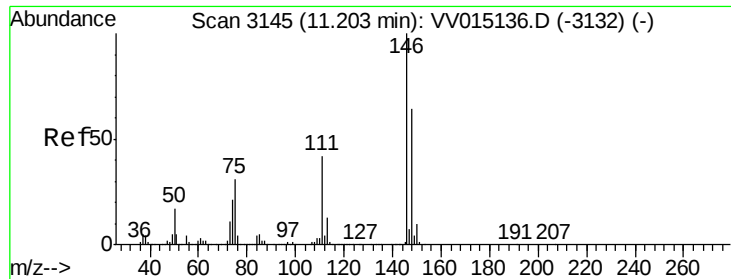
Ion Ratio Lower Upper

173 100

175 48.6 37.8 56.8

254 7.8 6.1 9.1





#62

1,3-Dichlorobenzene

Concen: 196.872 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

ClientSampleId :

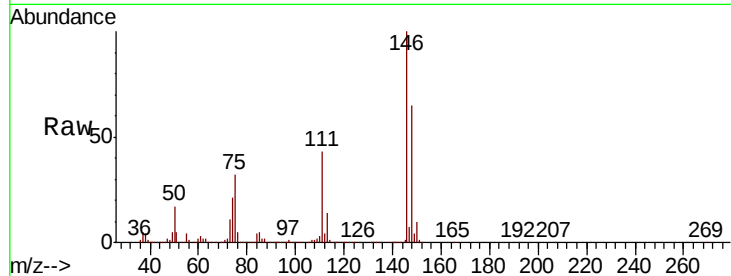
Tot Ion:146 Resp: 2168570

Ion Ratio Lower Upper

146 100

111 42.6 29.3 54.5

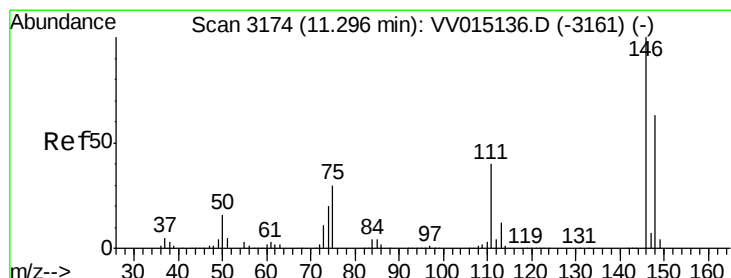
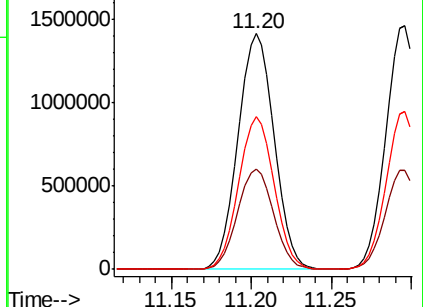
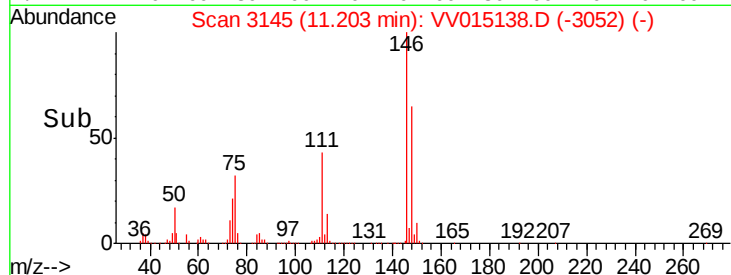
148 64.6 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 194.329 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

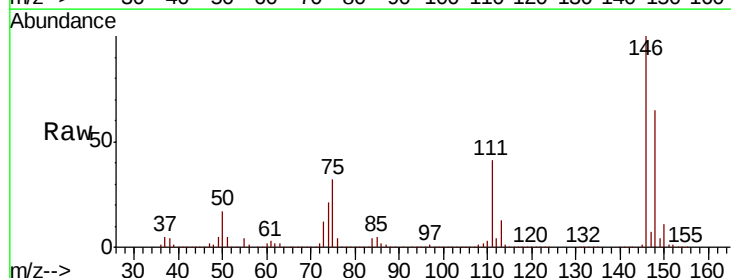
Tgt Ion:146 Resp: 2175812

Ion Ratio Lower Upper

146 100

111 40.7 28.4 52.8

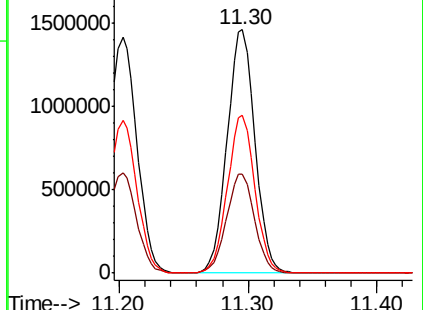
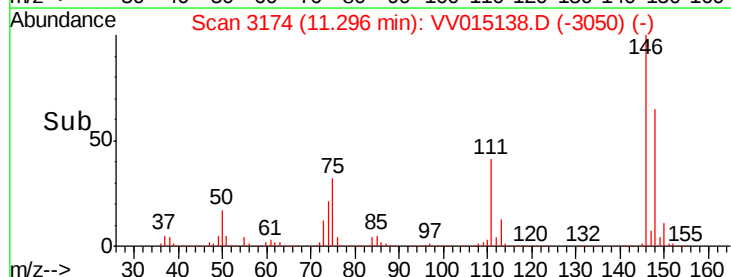
148 64.6 44.0 81.8

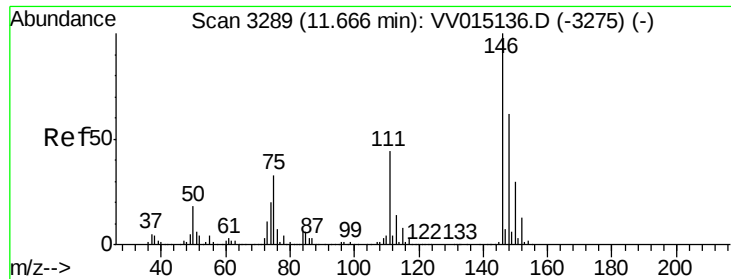


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 181.242 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Instrument :

MSVOA\_V

ClientSampleId :

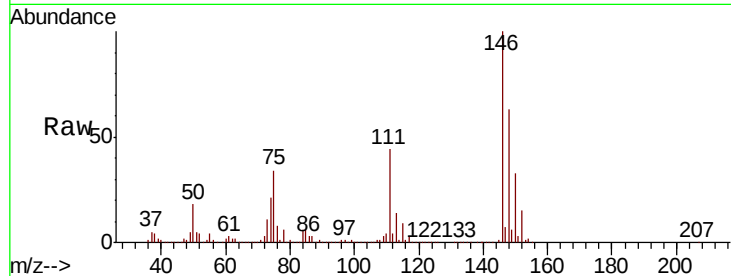
Tot Ion:146 Resp: 2168223

Ion Ratio Lower Upper

146 100

111 43.7 35.4 53.2

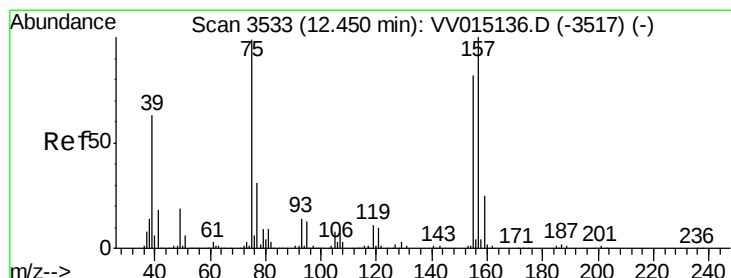
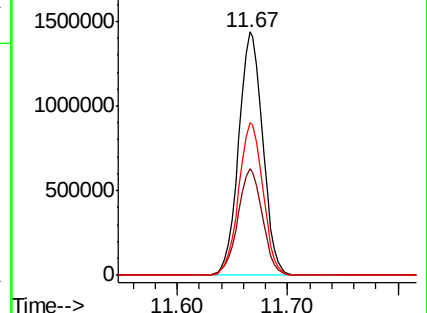
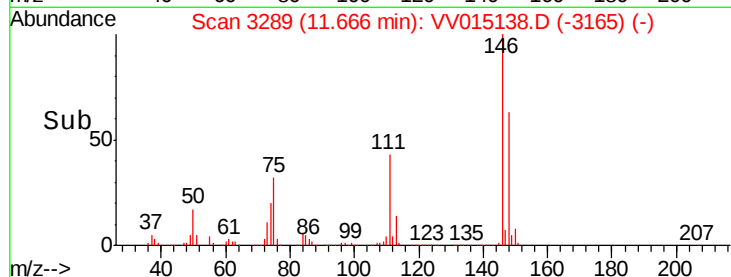
148 62.6 49.7 74.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 146.757 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

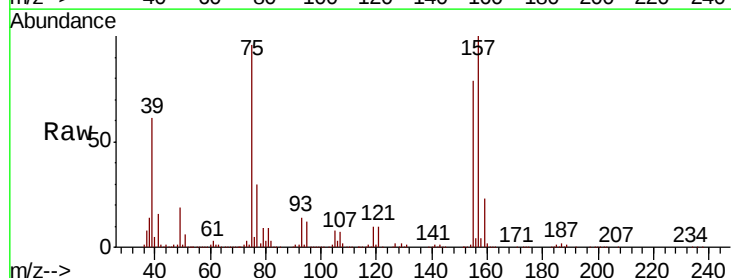
Tgt Ion: 75 Resp: 448964

Ion Ratio Lower Upper

75 100

155 81.8 66.2 99.4

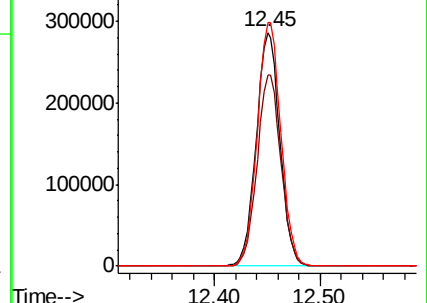
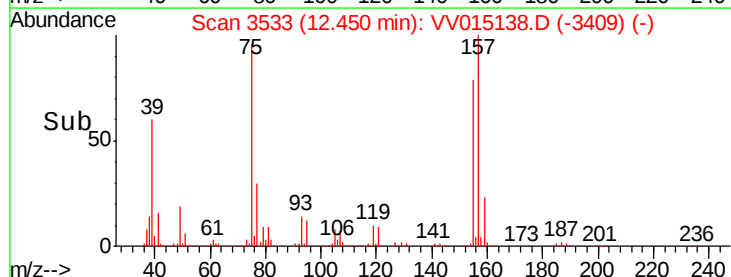
157 104.1 81.1 121.7

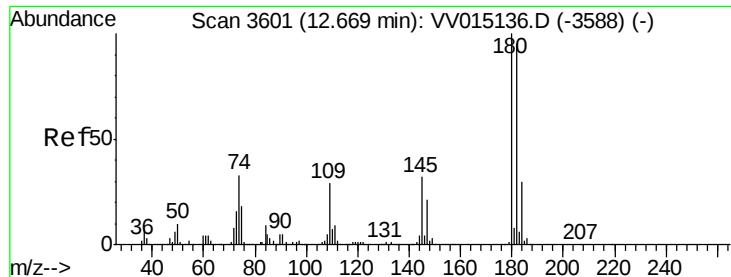


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



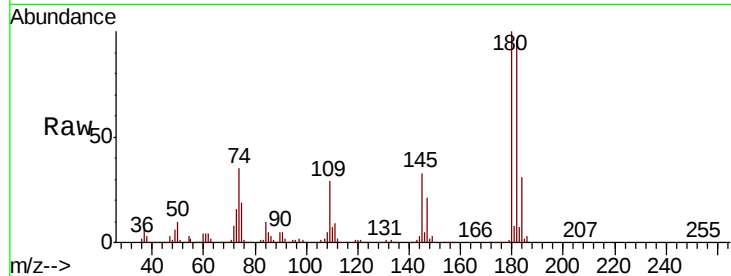


#67  
 1,3,5-Trichlorobenzene  
 Concen: 214.306 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

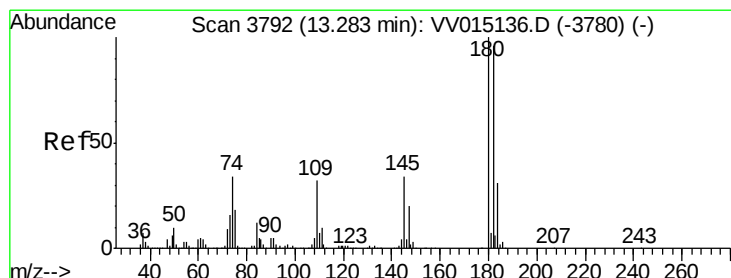
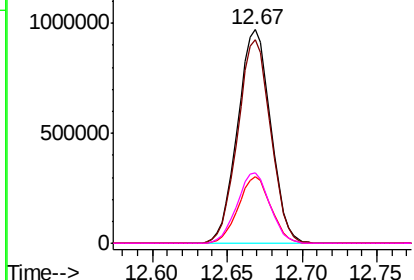
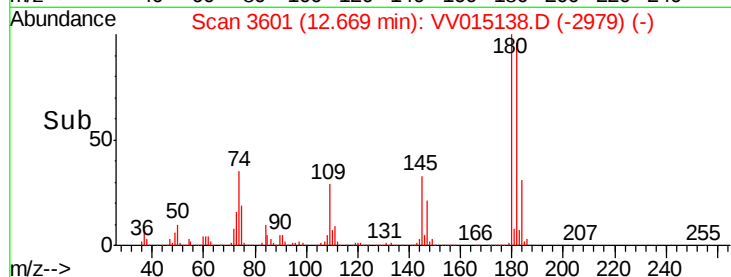
Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion:180 Resp: 1494687  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.7  | 76.1  | 114.1 |
| 184 | 30.5  | 24.4  | 36.6  |
| 145 | 32.8  | 26.7  | 40.1  |



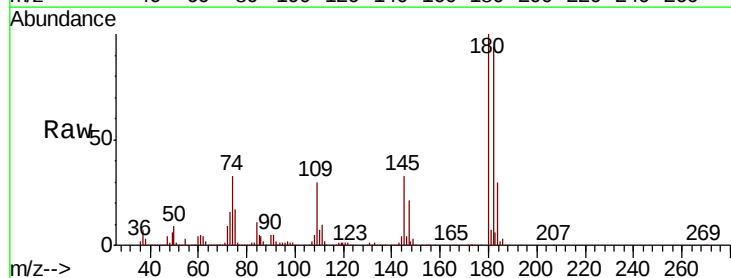
Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V



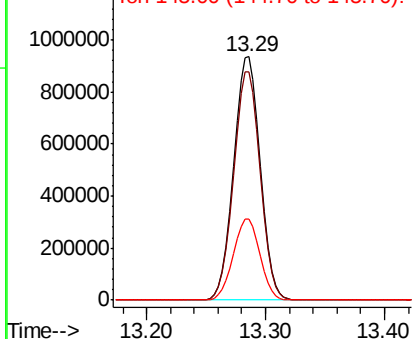
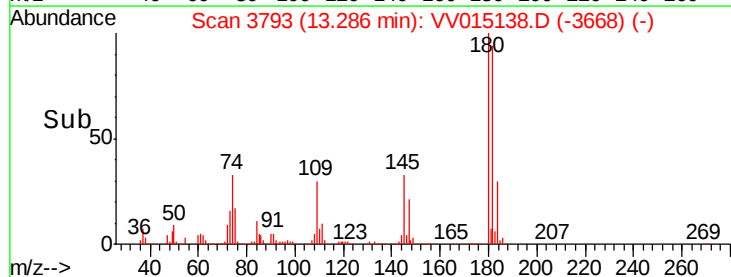
#68  
 1,2,4-trichlorobenzene  
 Concen: 204.870 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV015138.D  
 Acq: 25 Mar 2020 12:34

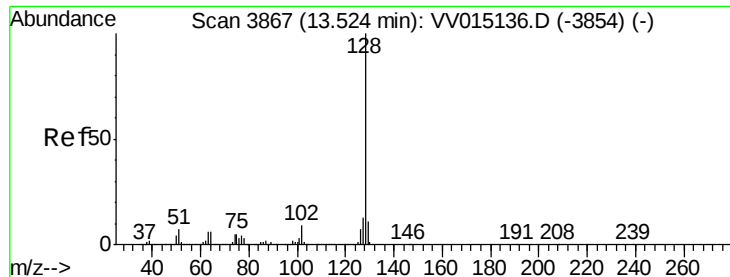
Tgt Ion:180 Resp: 1444016  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.1  | 76.1  | 114.1 |
| 145 | 33.6  | 26.6  | 40.0  |



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





#69

Naphthalene

Concen: 168.522 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

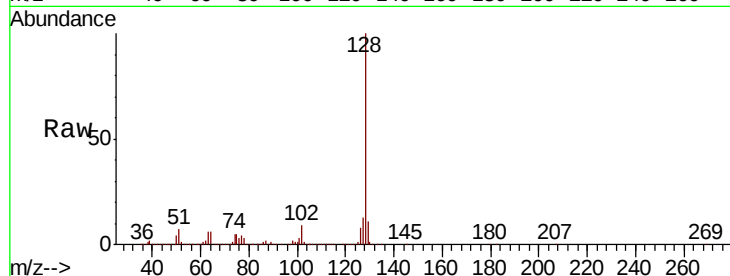
Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion:128 Resp: 5280259

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.2  | 10.3  | 15.5  |
| 129 | 11.1  | 8.6   | 12.8  |

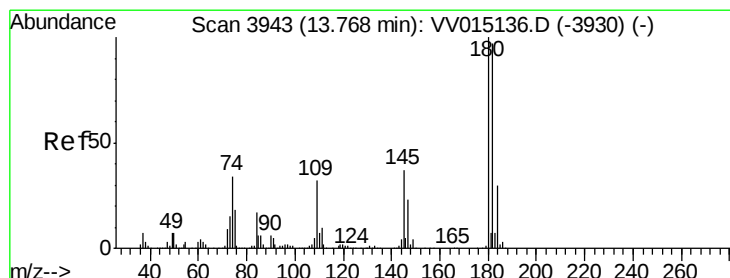
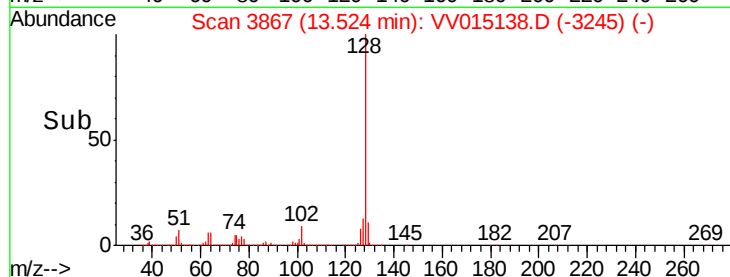
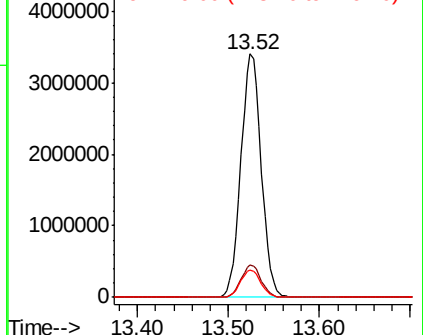


Abundance

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: 193.895 ug/L

RT: 13.77 min Scan# 3943

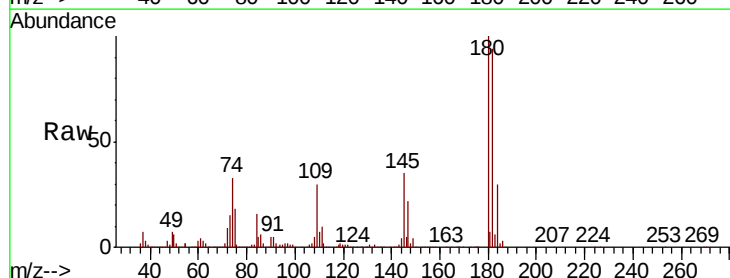
Delta R.T. -0.00 min

Lab File: VV015138.D

Acq: 25 Mar 2020 12:34

Tgt Ion:180 Resp: 1429003

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.5  | 76.3  | 114.5 |
| 145 | 35.9  | 29.6  | 44.4  |



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

