

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\  
 Data File : VV019135.D  
 Acq On : 28 Oct 2020 12:11  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL01

Quant Time: Oct 29 03:15:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 29 03:08:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 238090   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 230487   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 119828   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 80307    | 37.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 74.26% |
| 7) Chloroethane-d5             | 1.58    | 69    | 67519    | 38.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 77.56% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 135882   | 33.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.08% |
| 21) 2-Butanone-d5              | 3.90    | 46    | 111288   | 76.50    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 76.50% |
| 24) Chloroform-d               | 4.37    | 84    | 167407   | 44.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.50% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 118486   | 46.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.18% |
| 32) Benzene-d6                 | 5.07    | 84    | 316245   | 44.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.72% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 97468    | 42.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.36% |
| 41) Toluene-d8                 | 7.33    | 98    | 289861   | 45.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.94% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51875    | 44.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.66% |
| 47) 2-Hexanone-d5              | 8.10    | 63    | 82410    | 82.99    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 82.99% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 125069   | 41.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 82.30% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 123177   | 49.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.02% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 4742  | 2.557 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 4948  | 2.145 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 5443  | 2.396 ug/L # | 70     |
| 6) Bromomethane                | 1.53 | 94  | 3440  | 2.646 ug/L   | 95     |
| 8) Chloroethane                | 1.60 | 64  | 3678  | 2.581 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 8682  | 2.905 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 5312  | 3.342 ug/L   | 94     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 5312  | 3.340 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 6384  | 6.475 ug/L   | 92     |
| 14) Carbon disulfide           | 2.31 | 76  | 12803 | 2.442 ug/L   | 99     |
| 15) Methyl Acetate             | 2.45 | 43  | 4608  | 2.224 ug/L   | 93     |
| 16) Methylene chloride         | 2.52 | 84  | 5271  | 2.844 ug/L   | 94     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 4386  | 2.610 ug/L   | 96     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 13732 | 2.520 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 8677  | 2.557 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 4832  | 2.689 ug/L   | 95     |
| 23) Bromochloromethane         | 4.28 | 128 | 2336  | 2.554 ug/L # | 84     |

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 Sample : MDL01  
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL01

Quant Time: Oct 29 03:15:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 29 03:08:29 2020  
 Response via : Initial Calibration

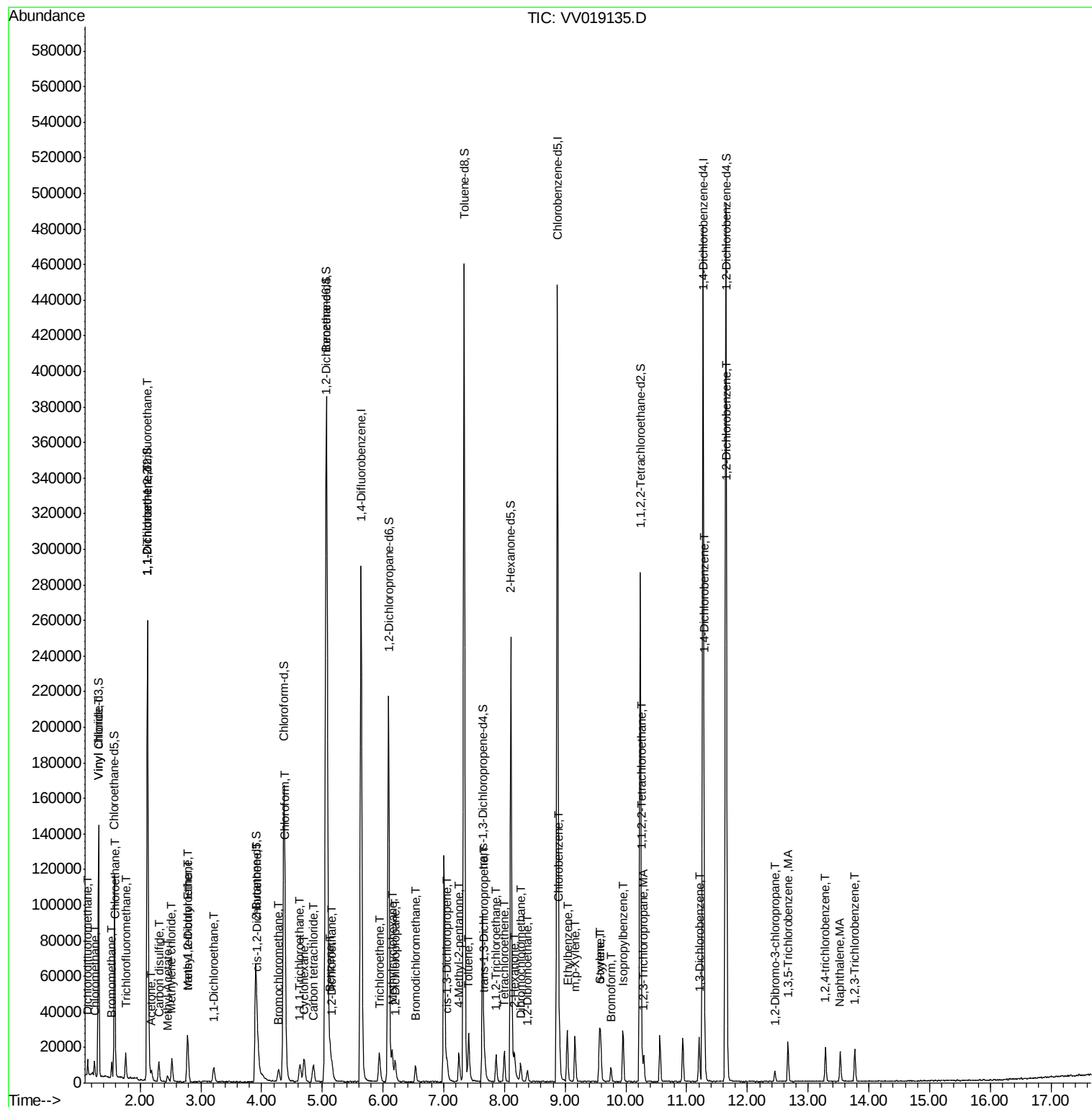
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 25) Chloroform                 | 4.40  | 83   | 10654    | 3.188 | ug/L   | 89       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 7991     | 2.881 | ug/L   | 97       |
| 29) Cyclohexane                | 4.70  | 56   | 6016     | 2.181 | ug/L   | 88       |
| 30) 1,1,1-Trichloroethane      | 4.63  | 97   | 7962     | 2.774 | ug/L   | 95       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 7535     | 3.012 | ug/L   | 97       |
| 33) Benzene                    | 5.13  | 78   | 18933    | 2.683 | ug/L   | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 5097     | 2.859 | ug/L   | 97       |
| 35) Methylcyclohexane          | 6.15  | 83   | 5998     | 2.459 | ug/L # | 89       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 4866     | 2.505 | ug/L # | 91       |
| 38) Bromodichloromethane       | 6.54  | 83   | 6816     | 2.773 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 7124     | 2.482 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 10877    | 4.150 | ug/L   | 97       |
| 42) Toluene                    | 7.41  | 91   | 19137    | 2.642 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 7526     | 2.643 | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 4451     | 2.594 | ug/L   | 94       |
| 46) Tetrachloroethene          | 7.99  | 164  | 4001     | 2.924 | ug/L   | 98       |
| 48) 2-Hexanone                 | 8.16  | 43   | 11139    | 5.508 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.27  | 129  | 5248     | 2.799 | ug/L   | 93       |
| 50) 1,2-Dibromoethane          | 8.38  | 107  | 4513     | 2.535 | ug/L   | 96       |
| 51) Chlorobenzene              | 8.90  | 112  | 13248    | 2.852 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.04  | 91   | 19880    | 2.538 | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.16  | 106  | 7265     | 2.534 | ug/L   | 99       |
| 54) o-xylene                   | 9.57  | 106  | 6608     | 2.394 | ug/L   | 99       |
| 55) Styrene                    | 9.58  | 104  | 11577    | 2.364 | ug/L   | 97       |
| 56) Isopropylbenzene           | 9.95  | 105  | 17477    | 2.408 | ug/L   | 96       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 7396     | 2.620 | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 5744     | 2.529 | ug/L   | 99       |
| 61) Bromoform                  | 9.76  | 173  | 3917     | 2.903 | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.21 | 146  | 9647     | 2.683 | ug/L   | 93       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 10885    | 2.897 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 11302    | 3.117 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 1583     | 2.471 | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 7111     | 2.896 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180  | 6270     | 2.708 | ug/L   | 99       |
| 69) Naphthalene                | 13.53 | 128  | 13910    | 1.950 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 6188     | 2.638 | ug/L   | 94       |

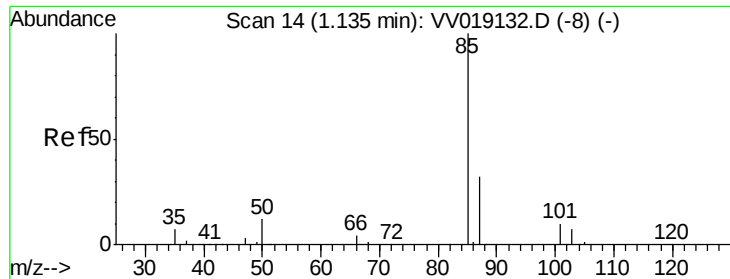
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV102820\  
Data File : VV019135.D  
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Sample : MDL01  
Misc : 5.0µL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

Quant Time: Oct 29 03:15:47 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102220WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 29 03:08:29 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.557 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

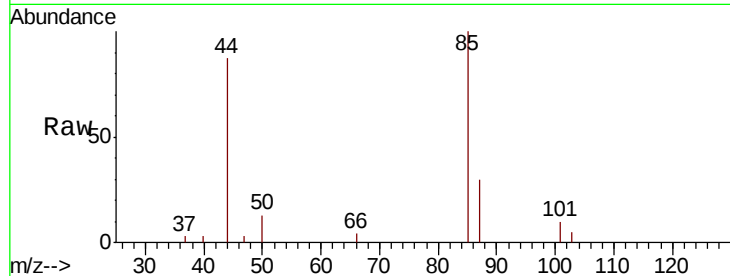
MDL01

Tot Ion: 85 Resp: 4742

Ion Ratio Lower Upper

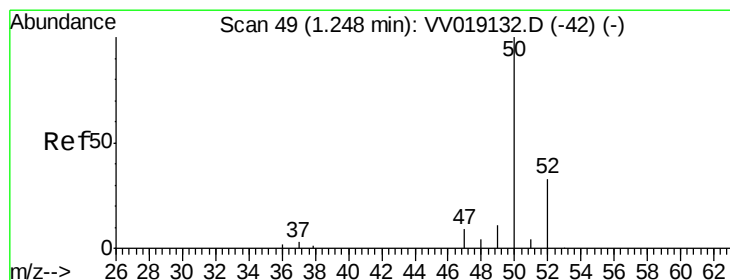
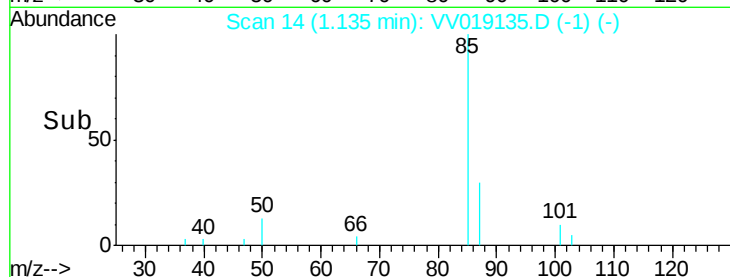
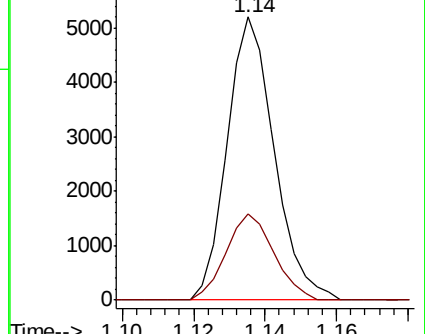
85 100

87 31.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.145 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019135.D

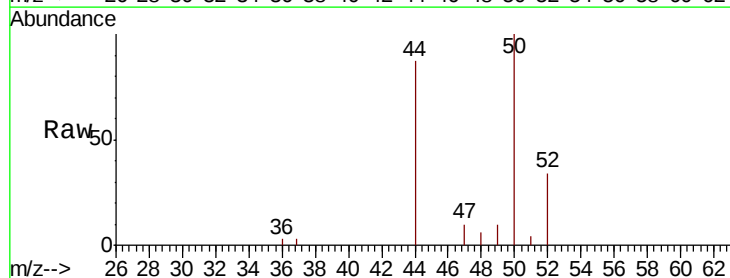
Acq: 28 Oct 2020 12:11

Tgt Ion: 50 Resp: 4948

Ion Ratio Lower Upper

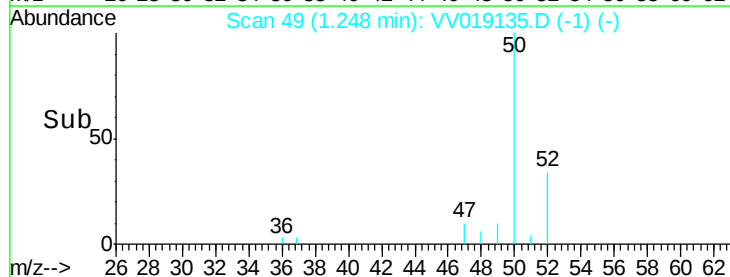
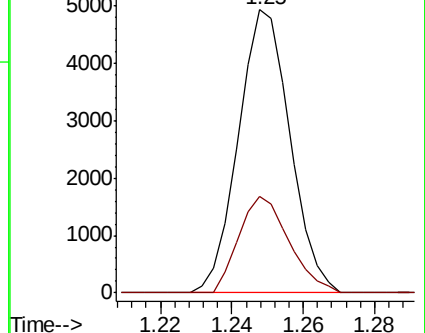
50 100

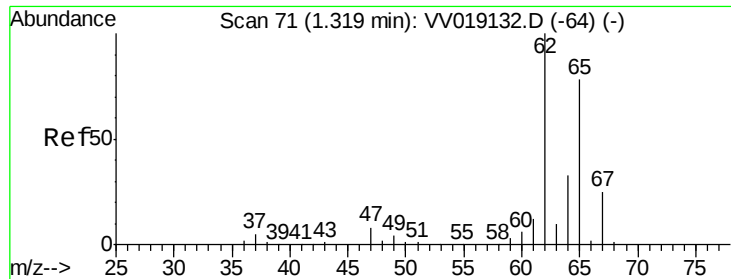
52 34.0 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.396 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

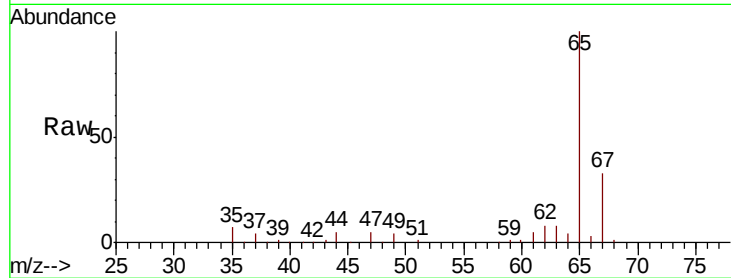
MDL01

Tot Ion: 62 Resp: 5443

Ion Ratio Lower Upper

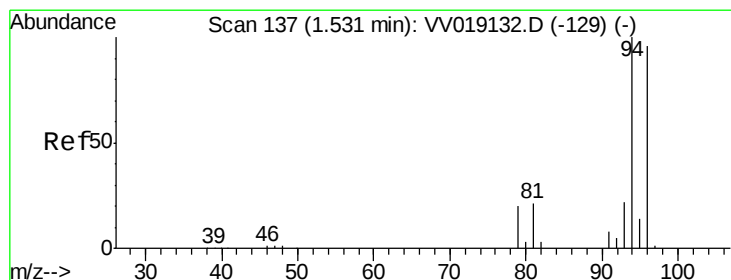
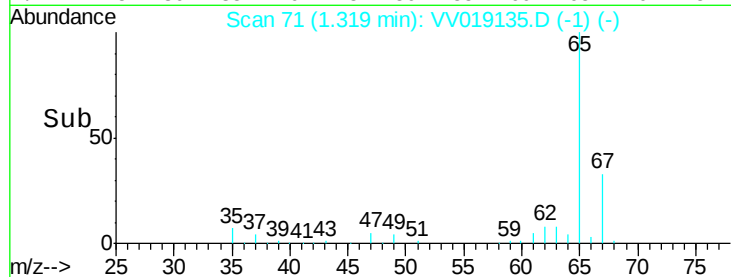
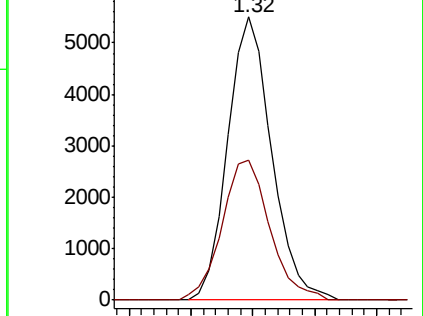
62 100

64 49.6 22.9 42.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.646 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019135.D

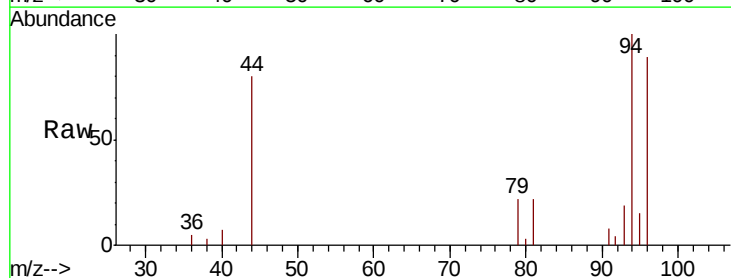
Acq: 28 Oct 2020 12:11

Tgt Ion: 94 Resp: 3440

Ion Ratio Lower Upper

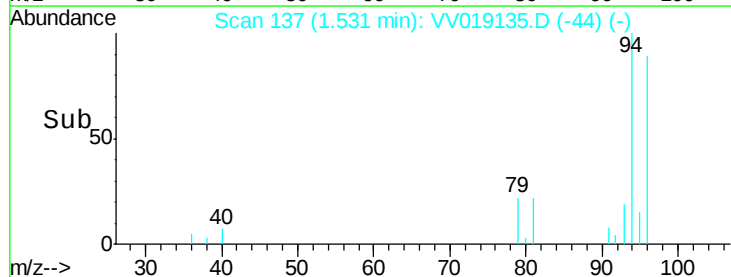
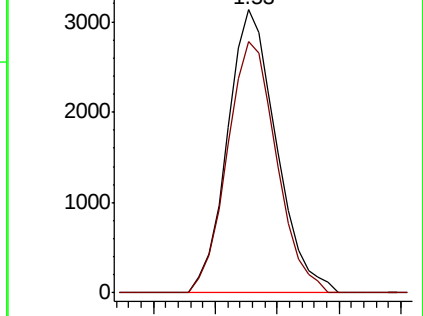
94 100

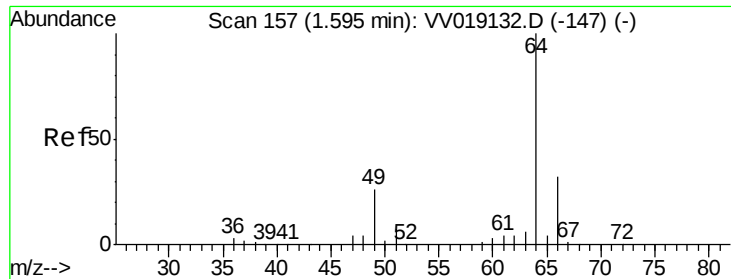
96 88.8 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

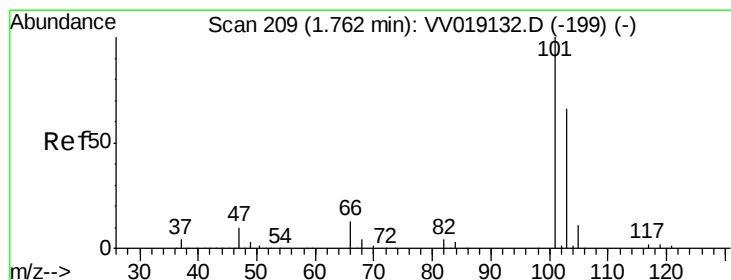
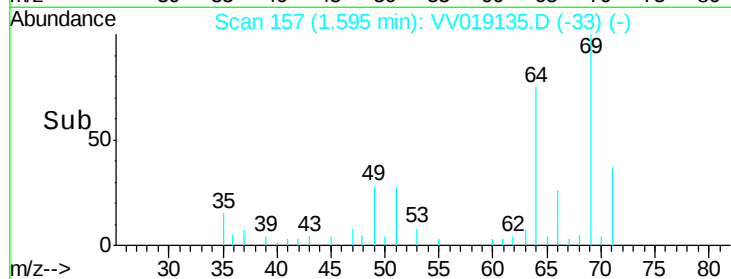
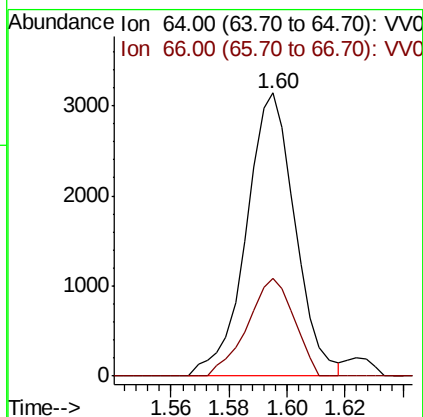
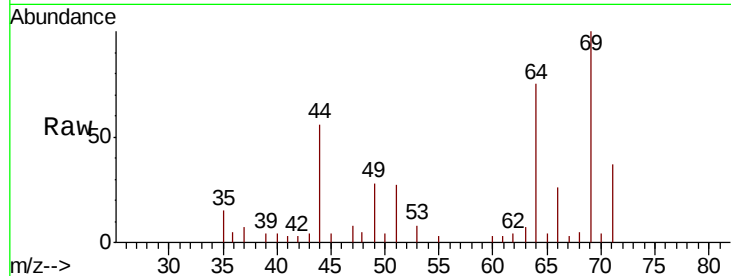




#8  
Chloroethane  
Concen: 2.581 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

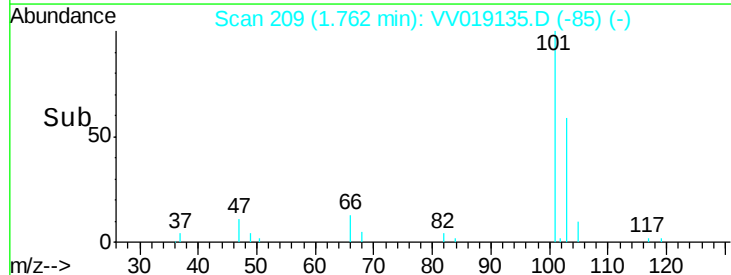
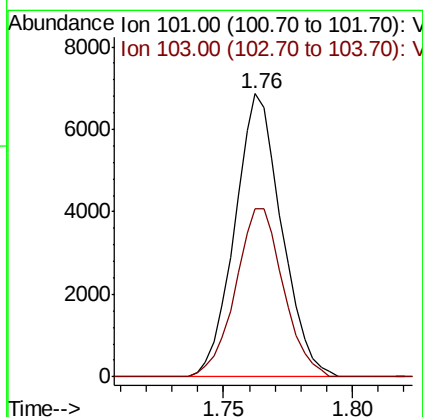
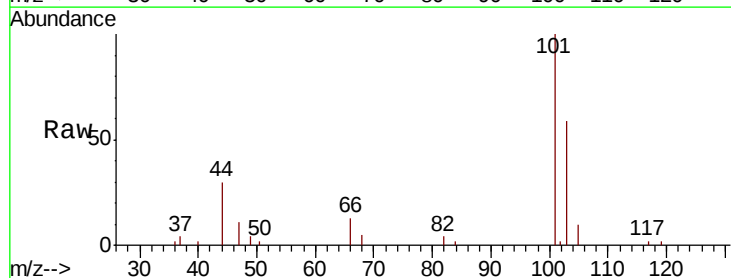
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL01

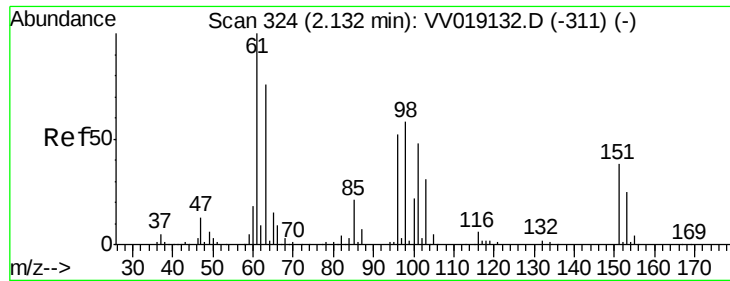
Tot Ion: 64 Resp: 3678  
Ion Ratio Lower Upper  
64 100  
66 34.5 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 2.905 ug/L  
RT: 1.76 min Scan# 209  
Delta R.T. -0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion: 101 Resp: 8682  
Ion Ratio Lower Upper  
101 100  
103 60.8 51.7 77.5





#10

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

Concen: 3.342 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

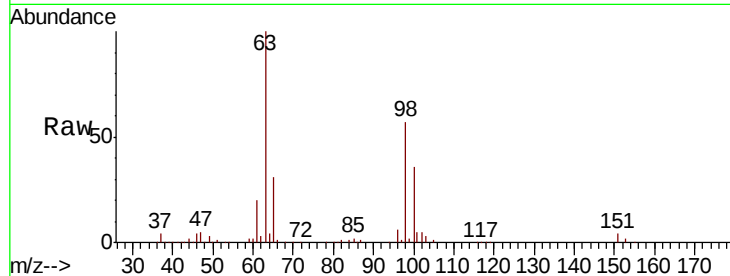
Tot Ion:101 Resp: 5312

Ion Ratio Lower Upper

101 100

85 42.1 36.9 55.3

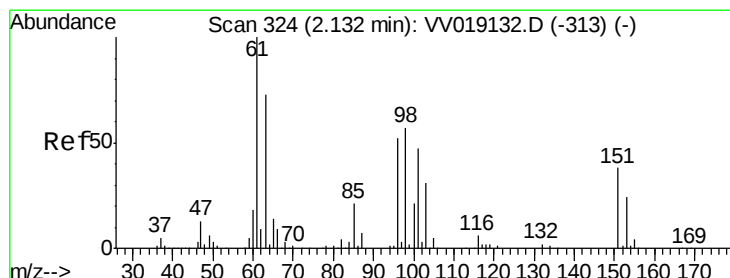
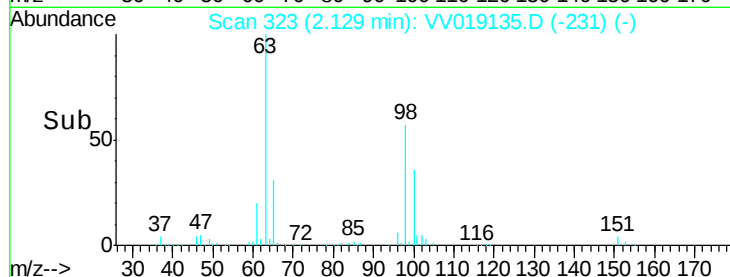
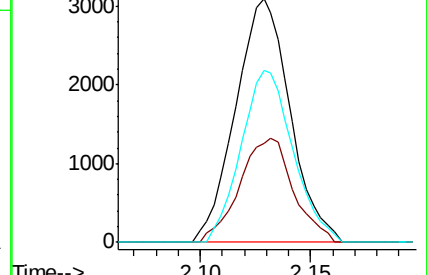
151 67.4 58.2 87.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.340 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

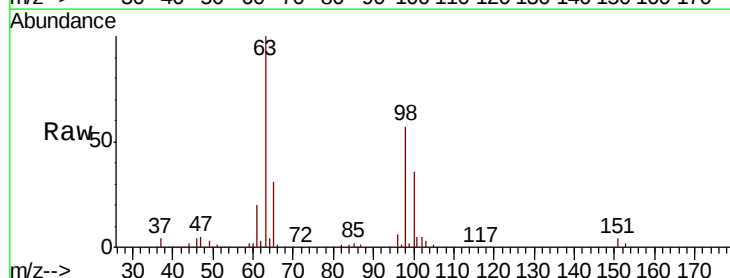
Tgt Ion: 96 Resp: 5312

Ion Ratio Lower Upper

96 100

61 370.8 138.7 257.7#

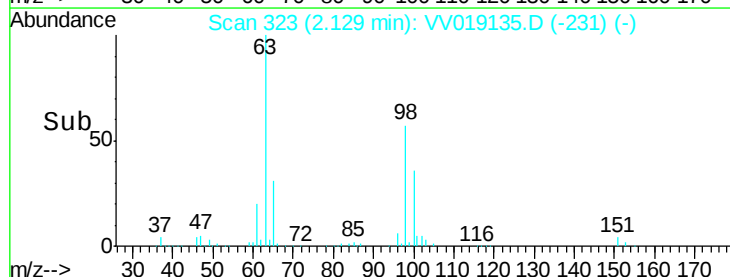
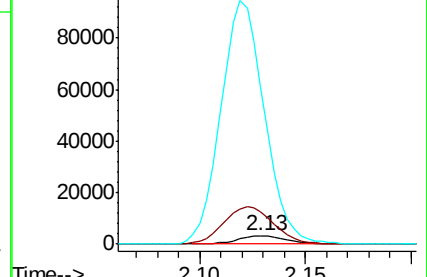
63 1818.0 126.3 234.6#

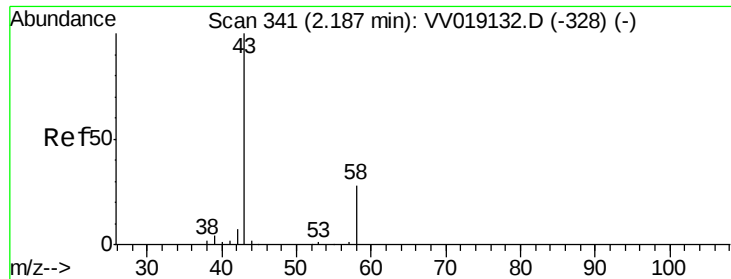


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.475 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

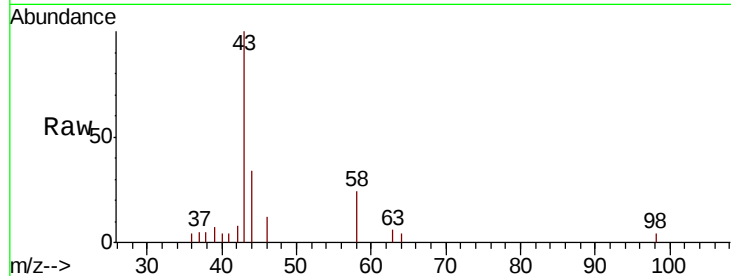
MDL01

Tot Ion: 43 Resp: 6384

Ion Ratio Lower Upper

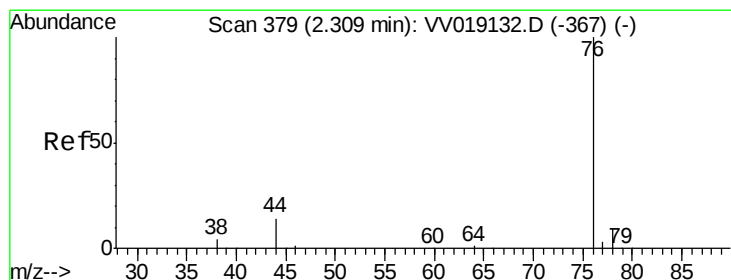
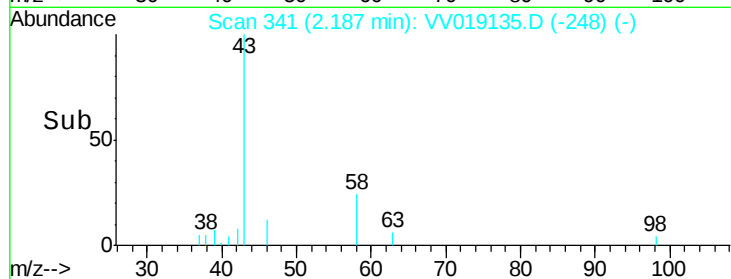
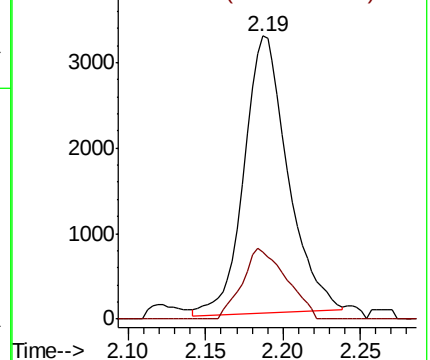
43 100

58 25.7 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.442 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019135.D

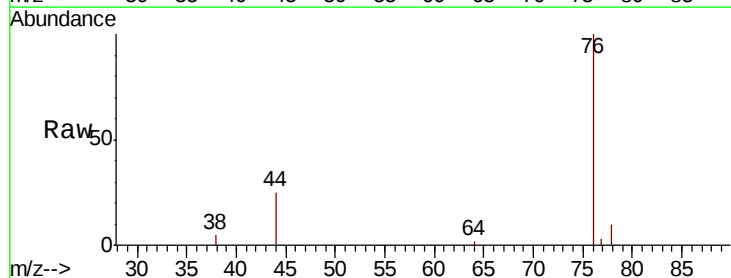
Acq: 28 Oct 2020 12:11

Tgt Ion: 76 Resp: 12803

Ion Ratio Lower Upper

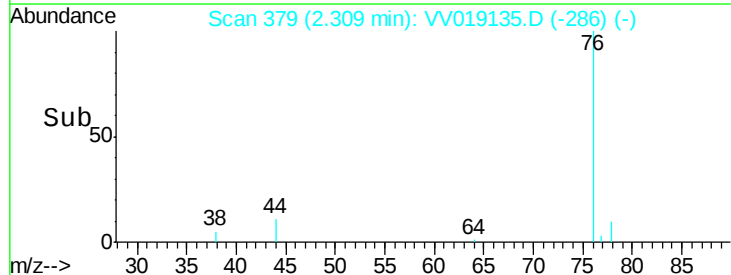
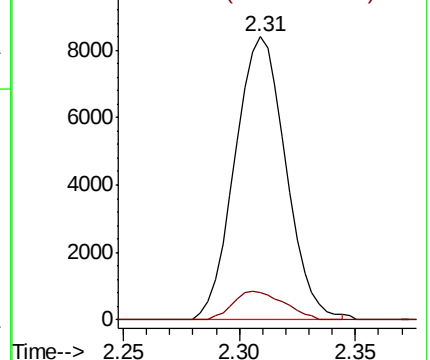
76 100

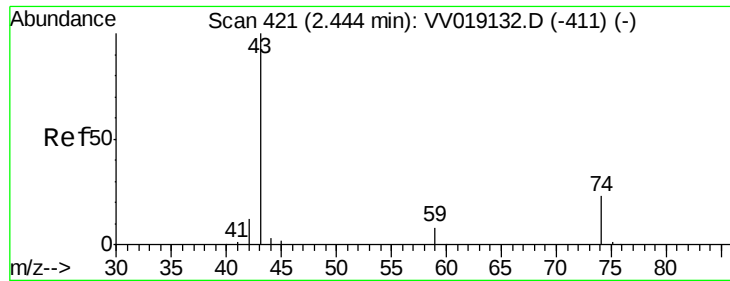
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

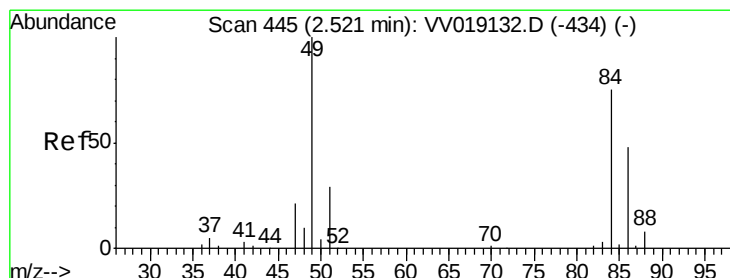
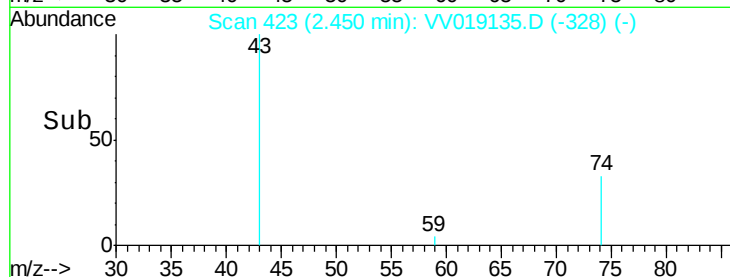
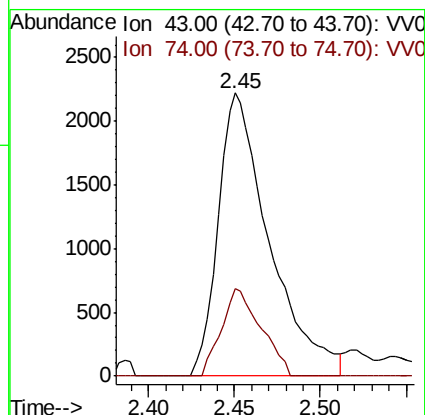
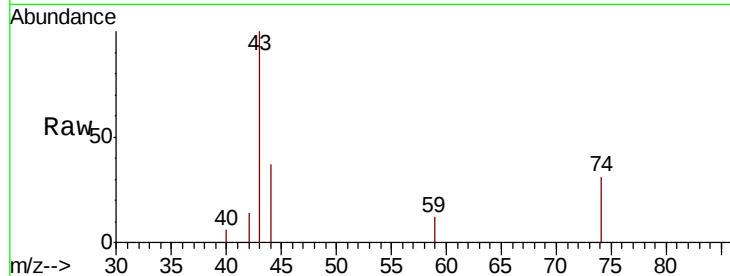




#15  
Methvl Acetate  
Concen: 2.224 ug/L  
RT: 2.45 min Scan# 423  
Delta R.T. 0.01 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

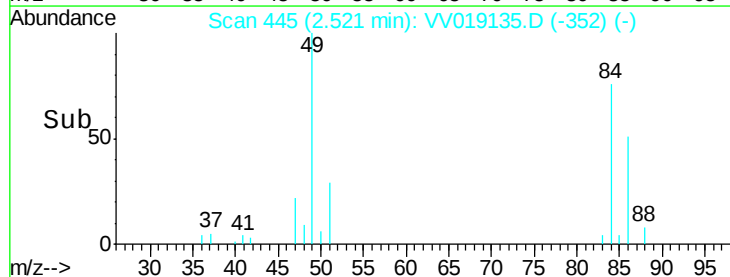
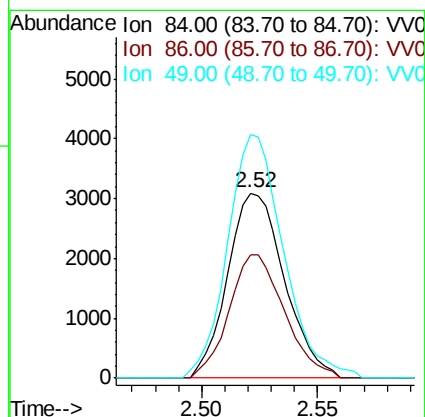
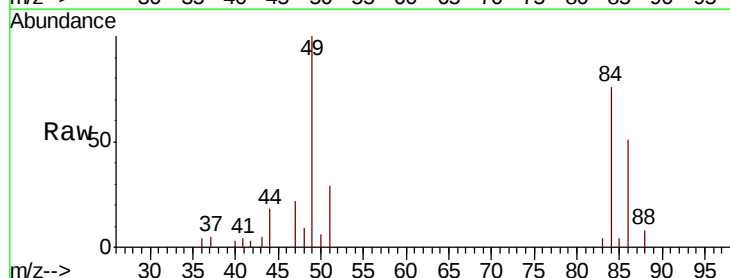
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

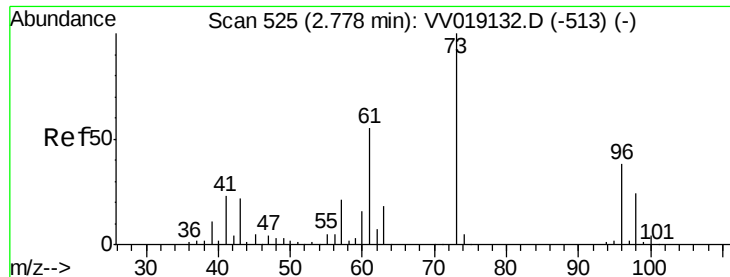
Tot Ion: 43 Resp: 4608  
Ion Ratio Lower Upper  
43 100  
74 23.8 16.4 24.6



#16  
Methylene chloride  
Concen: 2.844 ug/L  
RT: 2.52 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion: 84 Resp: 5271  
Ion Ratio Lower Upper  
84 100  
86 66.9 44.2 82.2  
49 131.6 98.0 182.0





#17

trans-1,2-Dichloroethene

Concen: 2.610 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

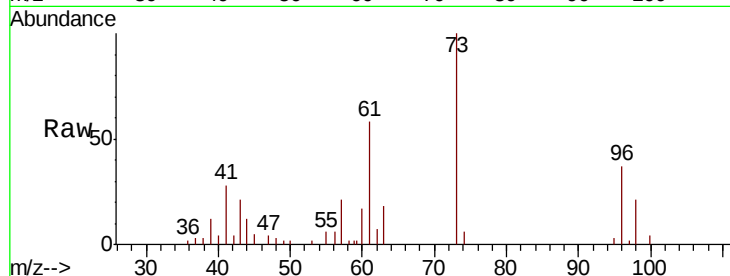
Tot Ion: 96 Resp: 4386

Ion Ratio Lower Upper

96 100

61 156.3 108.6 201.8

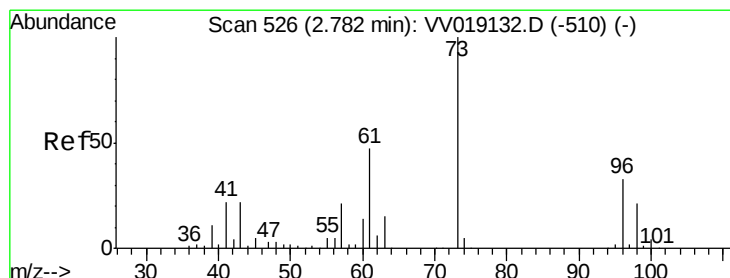
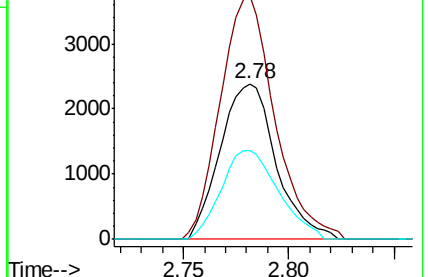
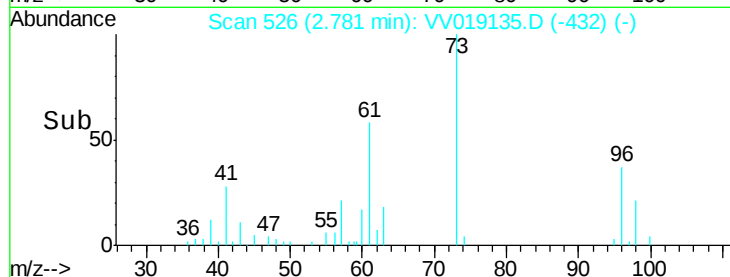
98 57.3 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VV019135.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019135.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019135.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 2.520 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

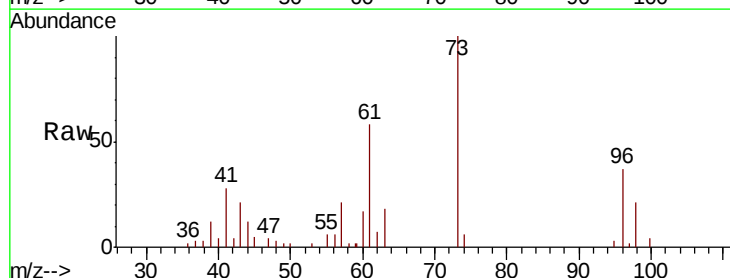
Tgt Ion: 73 Resp: 13732

Ion Ratio Lower Upper

73 100

43 23.0 17.2 25.8

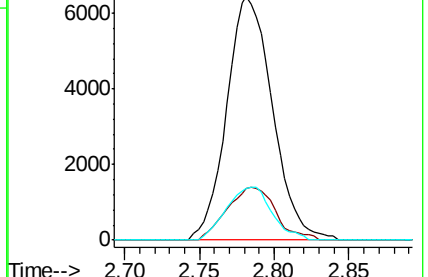
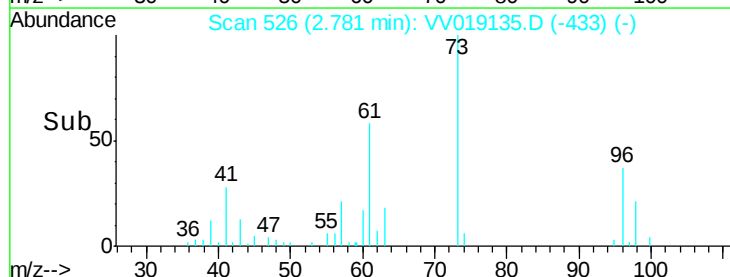
57 21.8 18.5 27.7

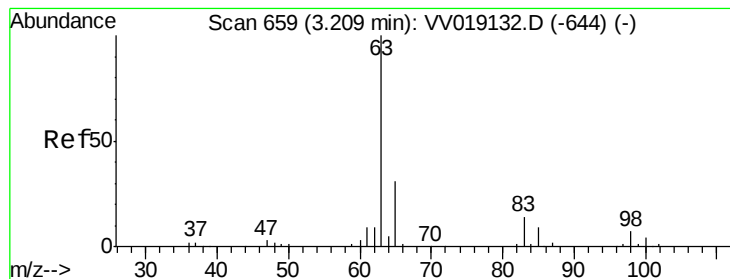


Abundance Ion 73.00 (72.70 to 73.70): VV019135.D (-433) (-)

Ion 43.00 (42.70 to 43.70): VV019135.D (-433) (-)

Ion 57.00 (56.70 to 57.70): VV019135.D (-433) (-)





#19

1,1-Dichloroethane

Concen: 2.557 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

MDL01

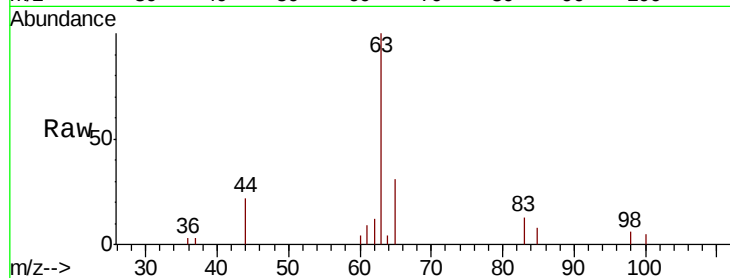
Tot Ion: 63 Resp: 8677

Ion Ratio Lower Upper

63 100

65 31.1 22.7 42.1

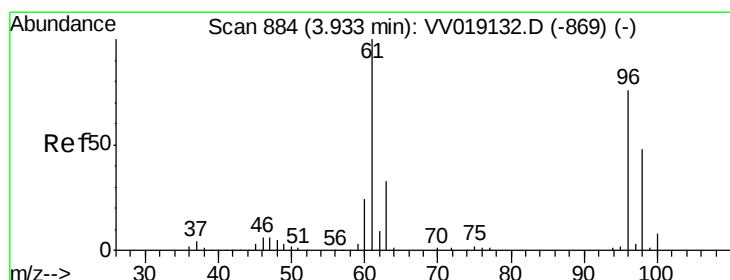
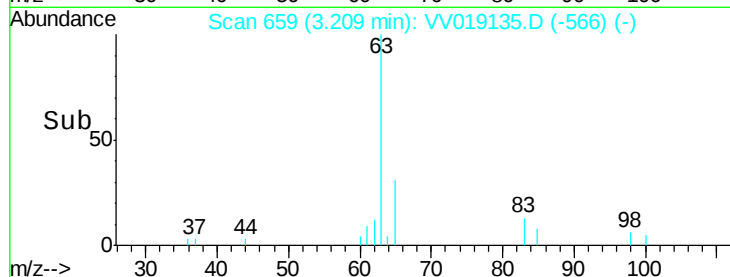
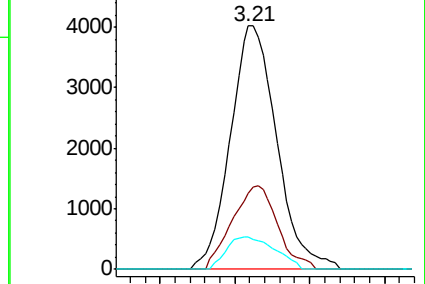
83 13.2 9.0 16.8



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: 2.689 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

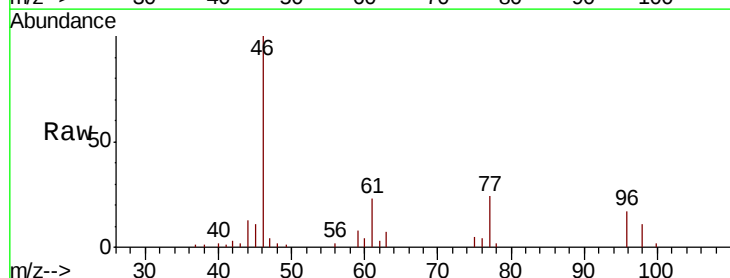
Tgt Ion: 96 Resp: 4832

Ion Ratio Lower Upper

96 100

61 135.9 99.4 184.6

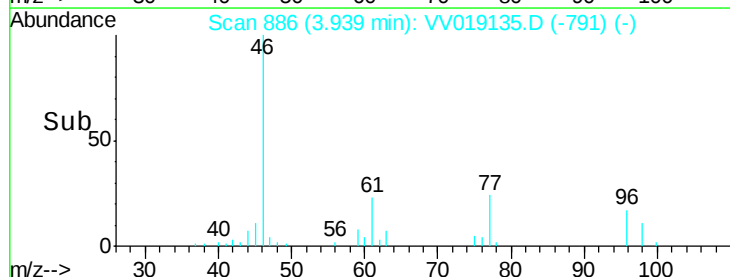
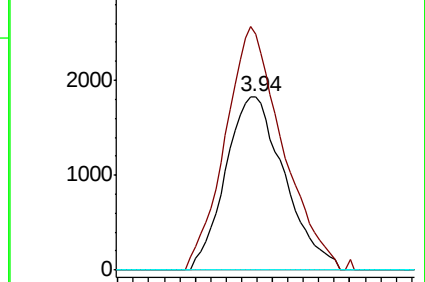
68 0.0 0.0 0.0

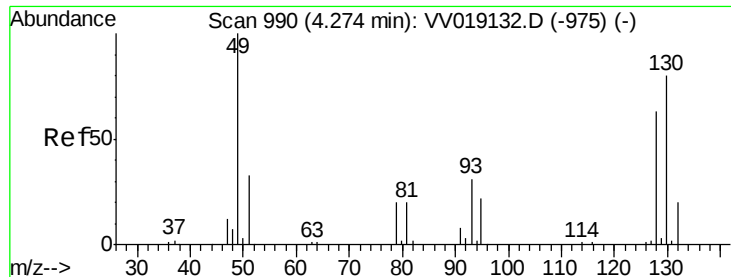


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#23

Bromochloromethane

Concen: 2.554 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

Tot Ion:128 Resp: 2336

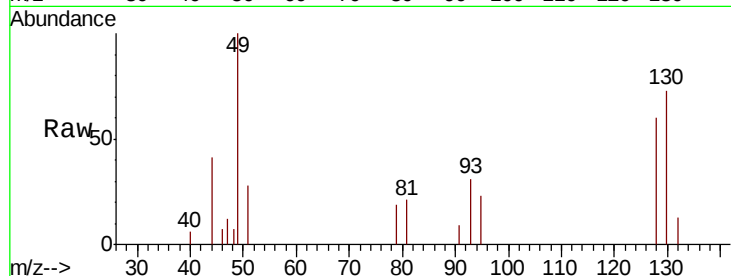
Ion Ratio Lower Upper

128 100

49 166.3 137.1 254.5

130 120.9 92.0 170.9

51 47.2 49.0 73.4#

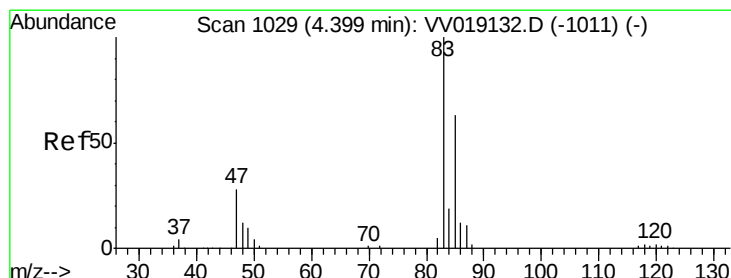
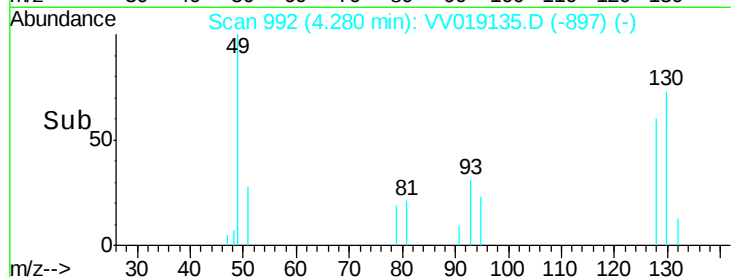
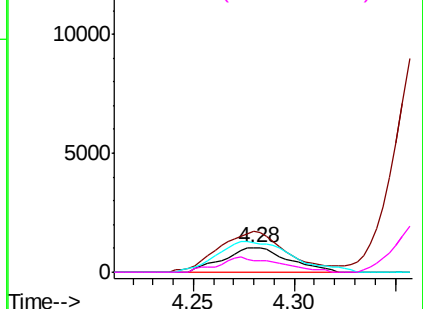


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 3.188 ug/L

RT: 4.40 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VV019135.D

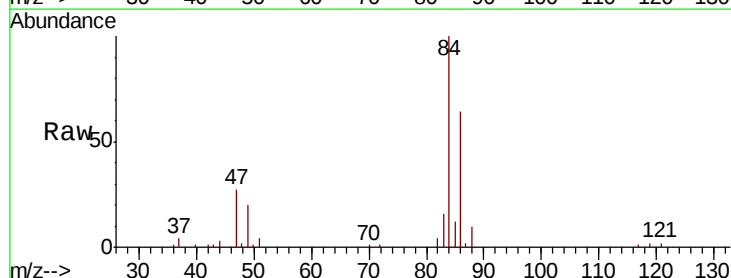
Acq: 28 Oct 2020 12:11

Tgt Ion: 83 Resp: 10654

Ion Ratio Lower Upper

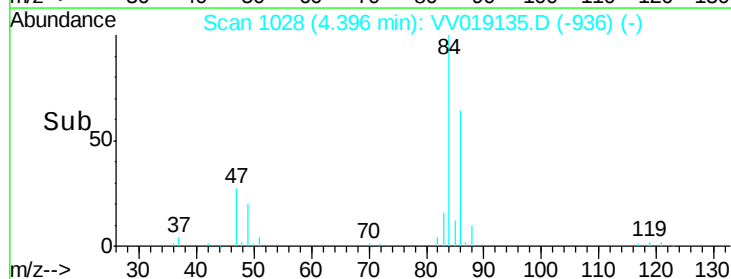
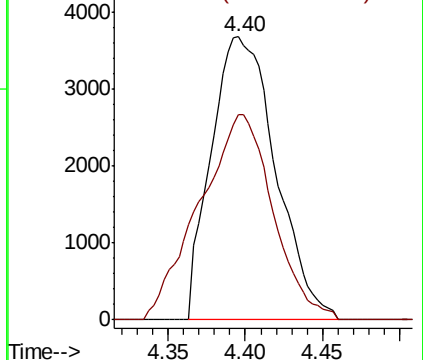
83 100

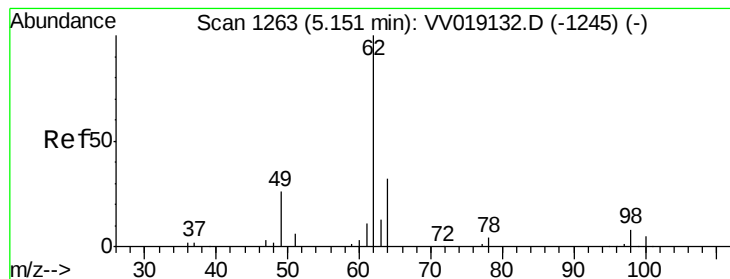
85 72.5 44.5 82.7



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 2.881 ug/L

RT: 5.16 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

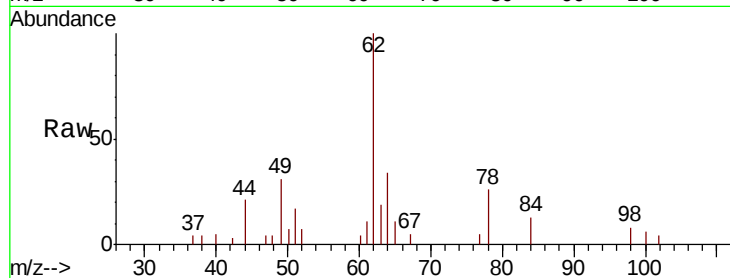
MDL01

Tot Ion: 62 Resp: 7991

Ion Ratio Lower Upper

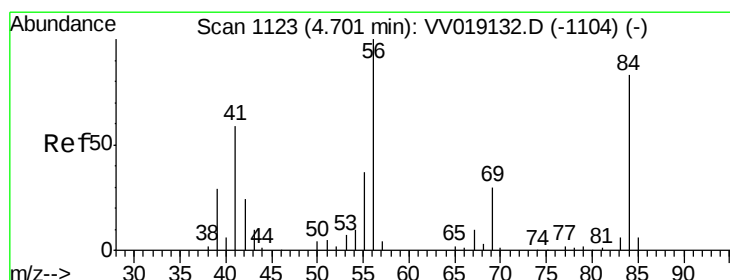
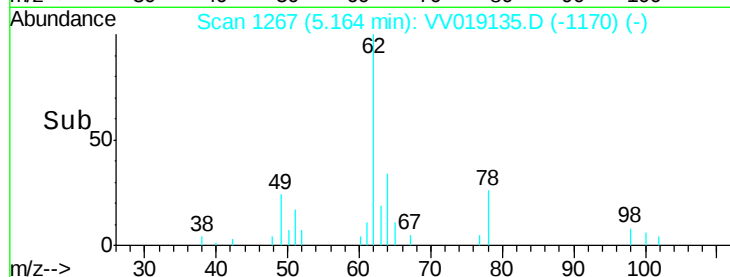
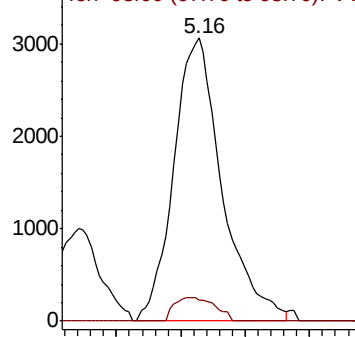
62 100

98 7.6 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 2.181 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

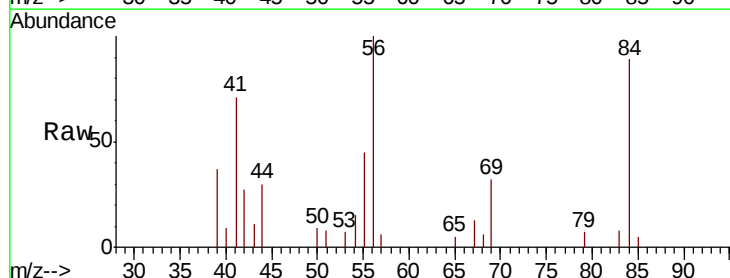
Tgt Ion: 56 Resp: 6016

Ion Ratio Lower Upper

56 100

69 28.9 22.7 34.1

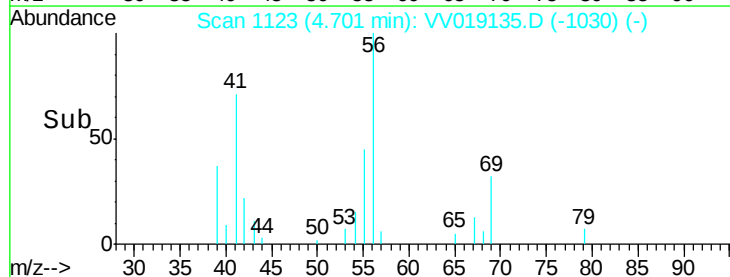
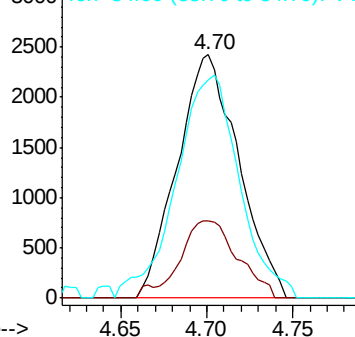
84 94.0 63.5 95.3

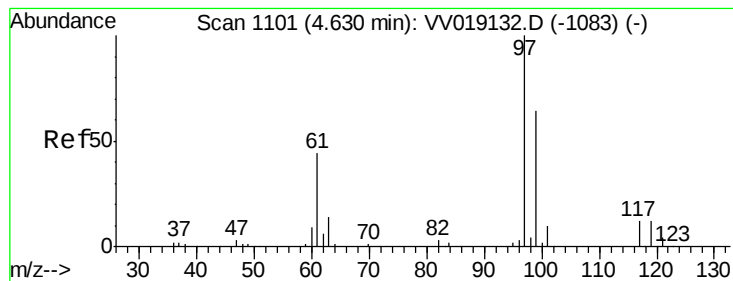


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0





#30

1,1,1-Trichloroethane

Concen: 2.774 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

MDL01

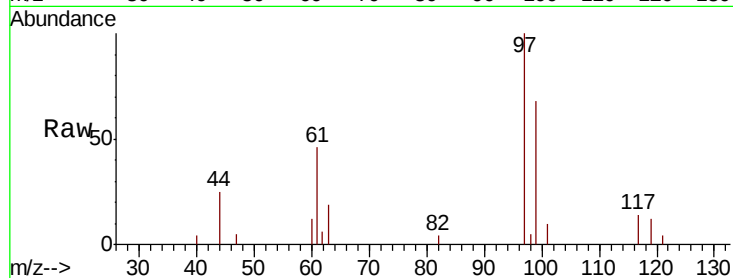
Tot Ion: 97 Resp: 7962

Ion Ratio Lower Upper

97 100

99 69.7 50.5 75.7

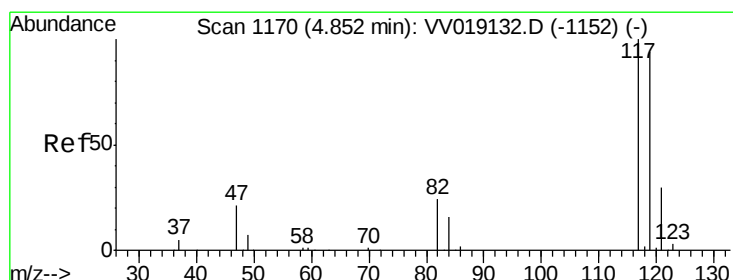
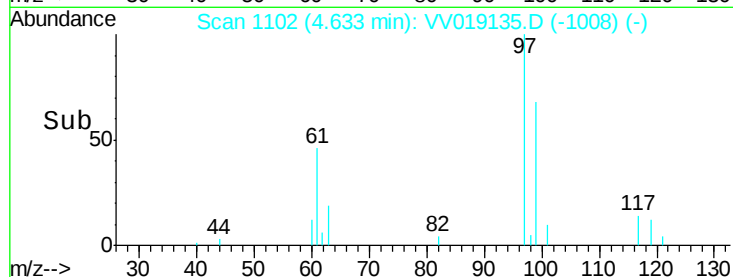
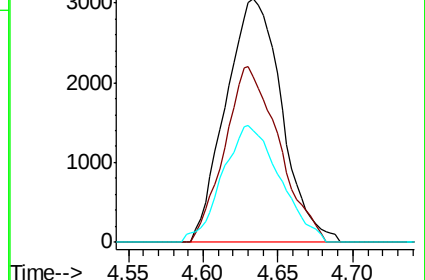
61 48.6 38.1 57.1



Abundance Ion 97.00 (96.70 to 97.70): VV019135.D (-1083) (-)

Ion 99.00 (98.70 to 99.70): VV019135.D (-1083) (-)

Ion 61.05 (60.75 to 61.75): VV019135.D (-1083) (-)



#31

Carbon tetrachloride

Concen: 3.012 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019135.D

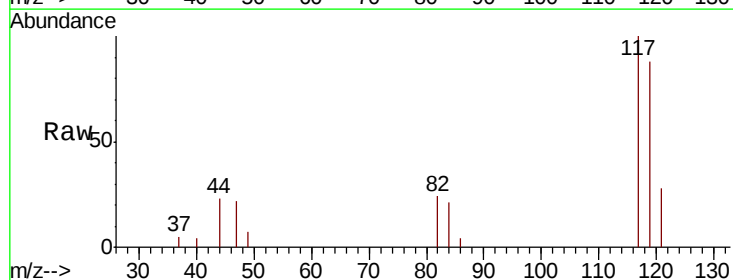
Acq: 28 Oct 2020 12:11

Tgt Ion: 117 Resp: 7535

Ion Ratio Lower Upper

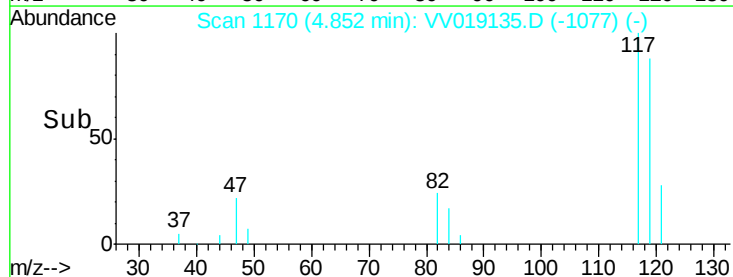
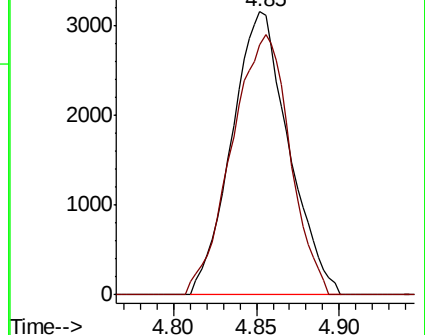
117 100

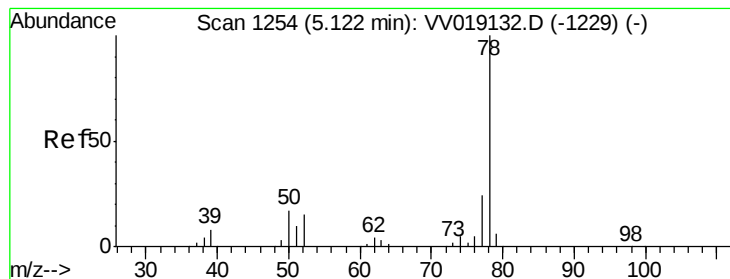
119 93.8 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): VV019135.D (-1077) (-)

Ion 119.00 (118.70 to 119.70): VV019135.D (-1077) (-)





#33

Benzene

Concen: 2.683 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

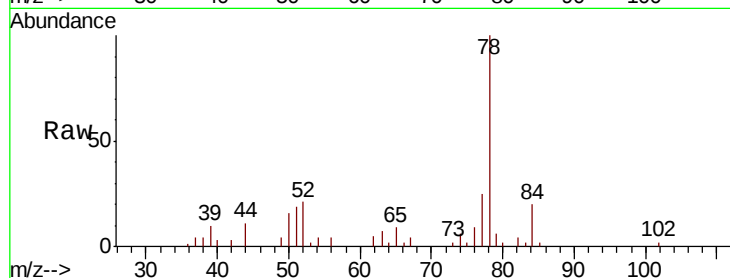
Instrument :

MSVOA\_V

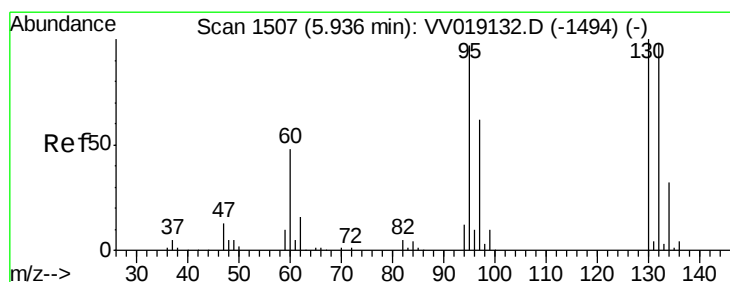
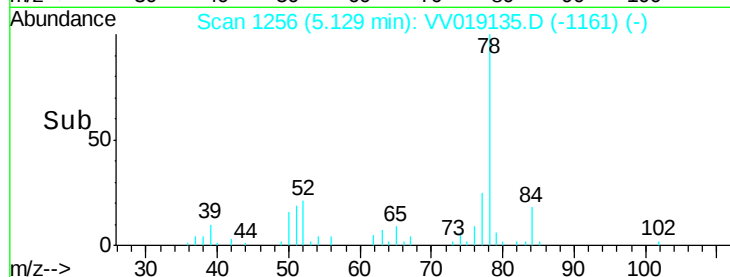
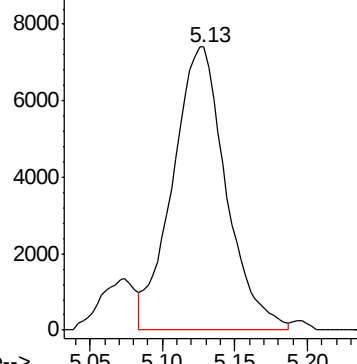
ClientSampled :

MDL01

Tgt Ion: 78 Resp: 18933



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 2.859 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Tgt Ion: 95 Resp: 5097

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 44.6  | 82.8  |
| 132 | 99.6  | 66.0  | 122.6 |
| 130 | 95.3  | 67.6  | 125.6 |

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

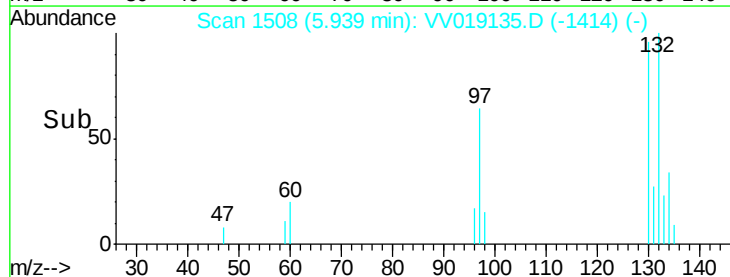
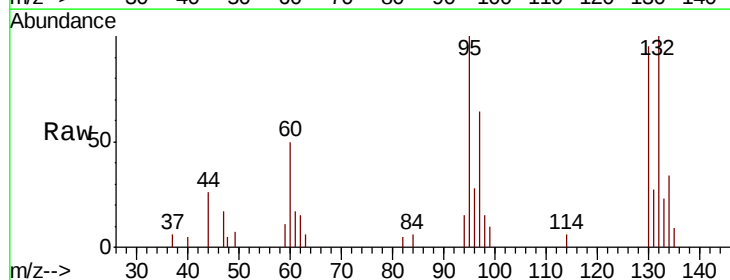
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Time-->



Abundance Ion 95.00 (94.70 to 95.70): VV0

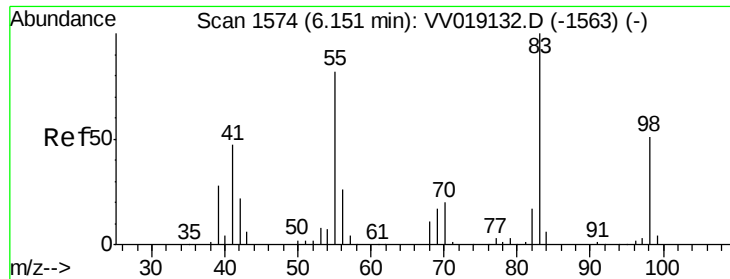
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Time-->

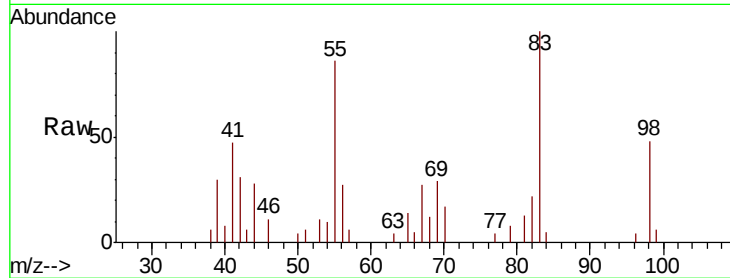
Time-->



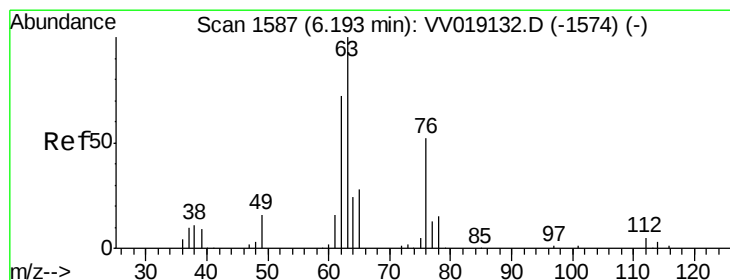
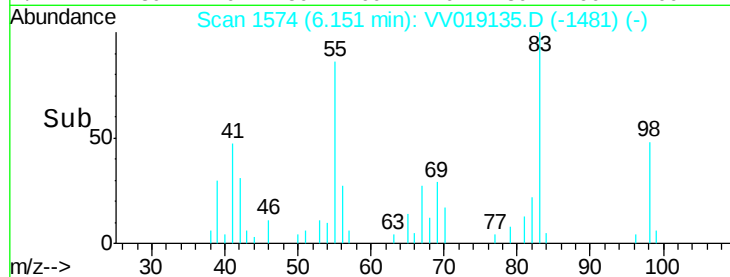
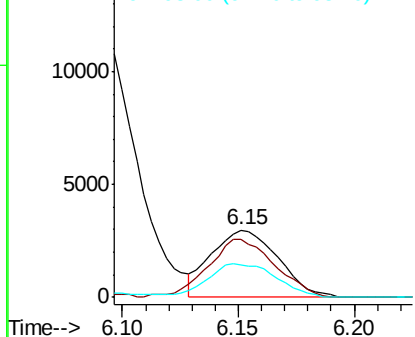
#35  
Methvlcvclohexane  
Concen: 2.459 ug/L  
RT: 6.15 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL01

Tot Ion: 83 Resp: 5998  
Ion Ratio Lower Upper  
83 100  
55 86.0 68.1 102.1  
98 27.2 37.9 56.9#

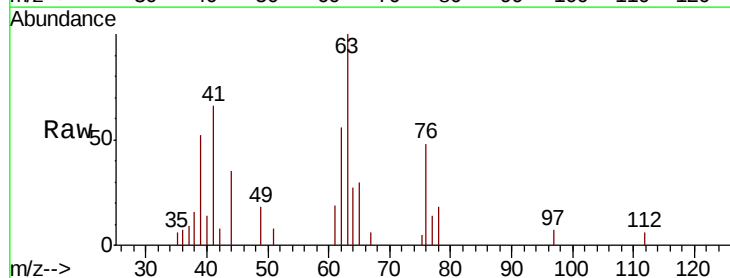


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

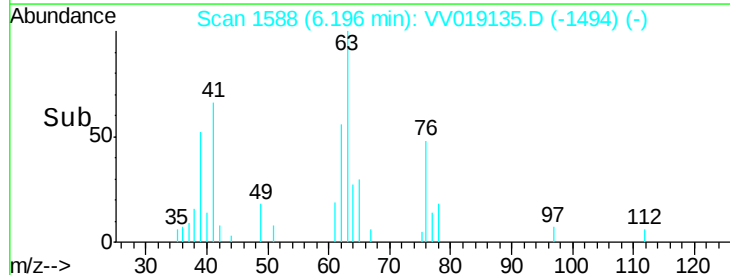
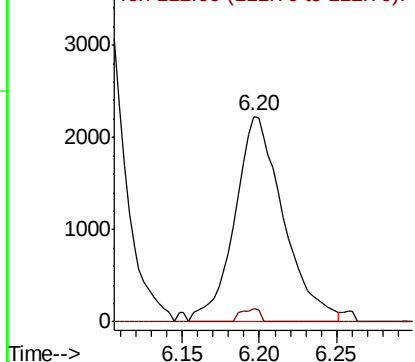


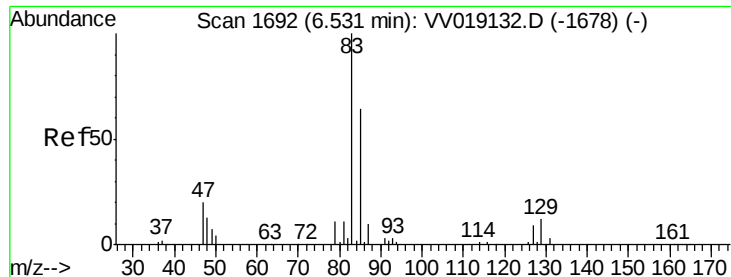
#37  
1,2-Dichloropropane  
Concen: 2.505 ug/L  
RT: 6.20 min Scan# 1588  
Delta R.T. 0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion: 63 Resp: 4866  
Ion Ratio Lower Upper  
63 100  
112 1.5 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.773 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

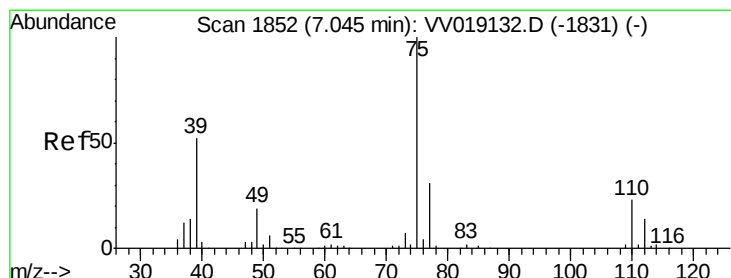
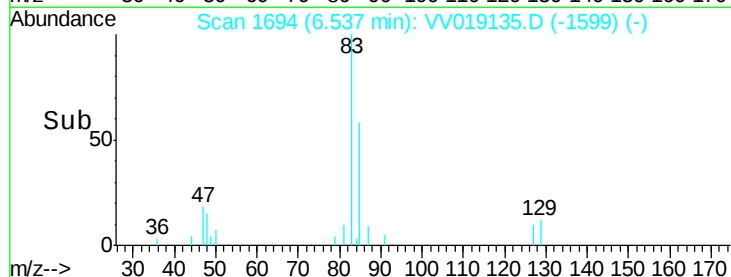
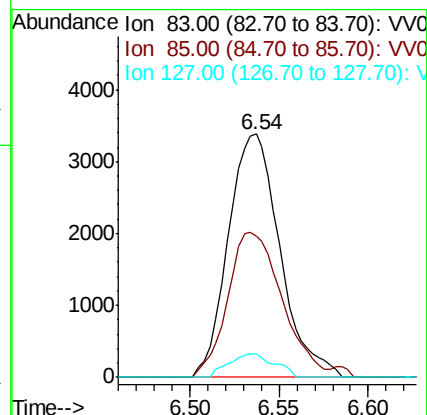
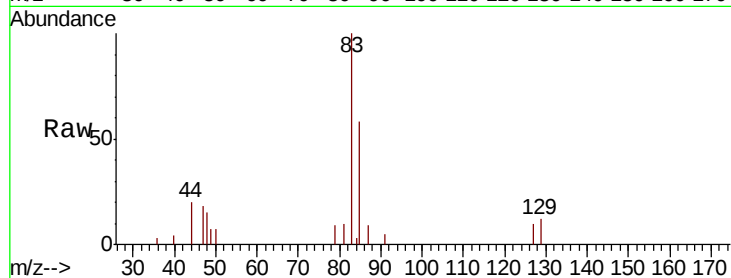
Tot Ion: 83 Resp: 6816

Ion Ratio Lower Upper

83 100

85 58.0 44.9 83.3

127 9.8 7.0 10.4



#39

cis-1,3-Dichloropropene

Concen: 2.482 ug/L

RT: 7.05 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VV019135.D

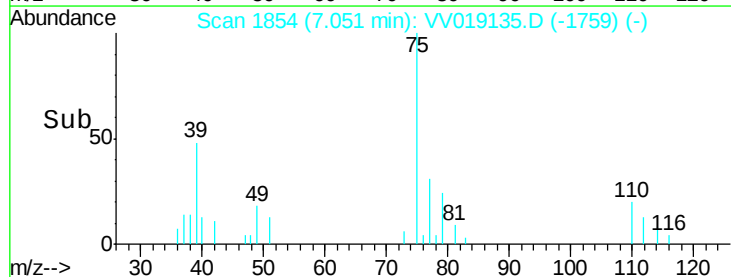
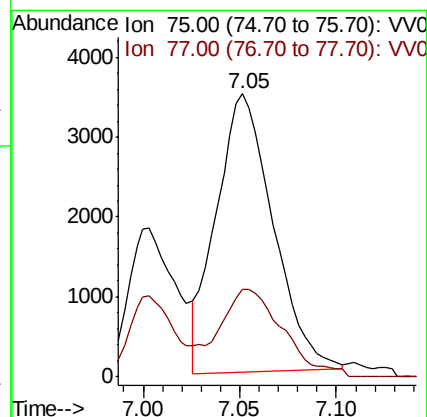
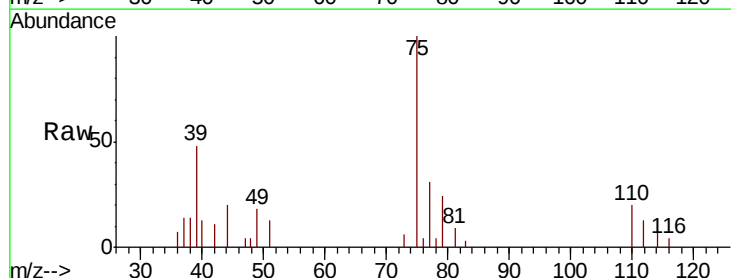
Acq: 28 Oct 2020 12:11

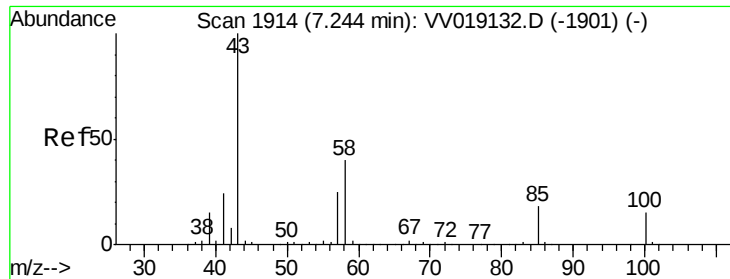
Tgt Ion: 75 Resp: 7124

Ion Ratio Lower Upper

75 100

77 31.0 22.1 41.1

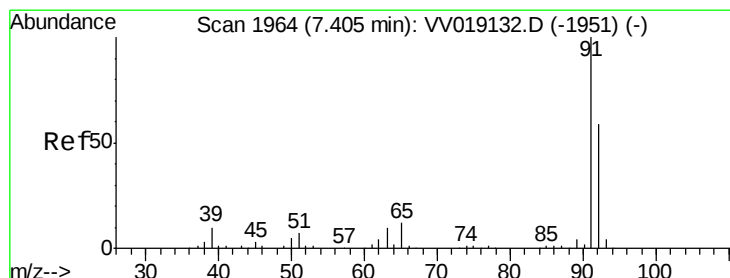
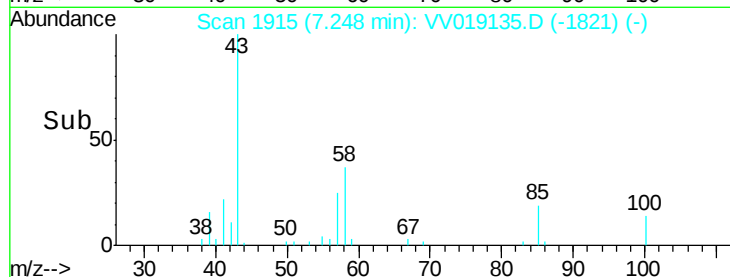
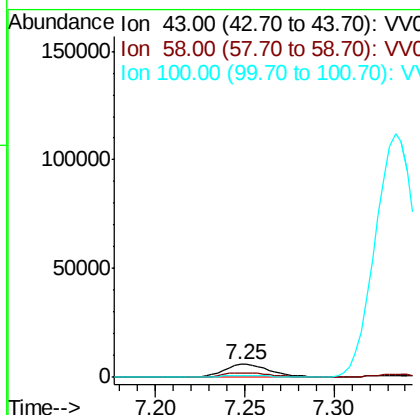
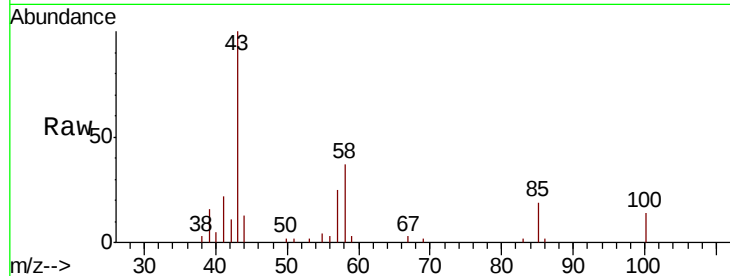




#40  
4-Methyl-2-pentanone  
Concen: 4.150 ug/L  
RT: 7.25 min Scan# 1915  
Delta R.T. 0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

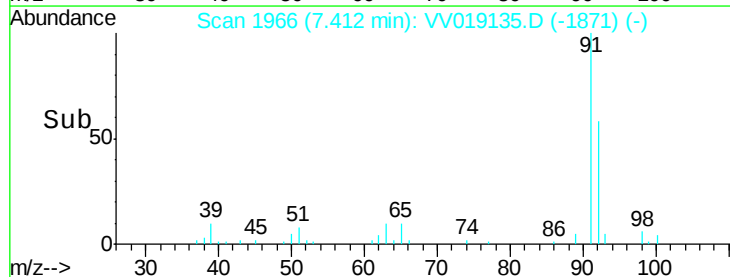
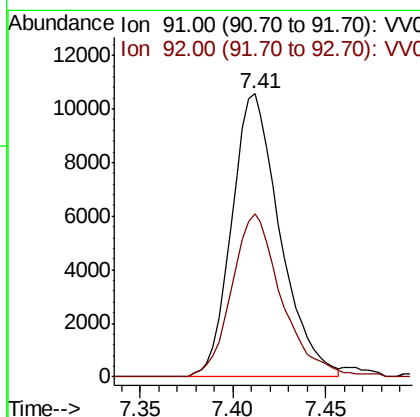
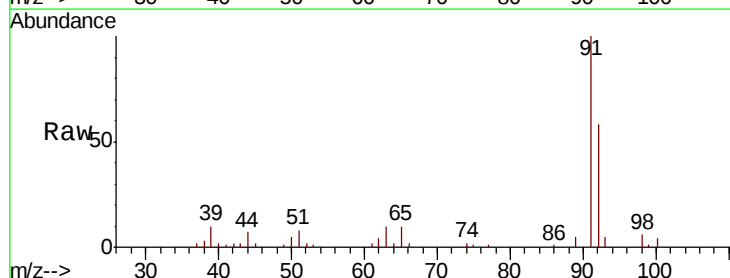
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL01

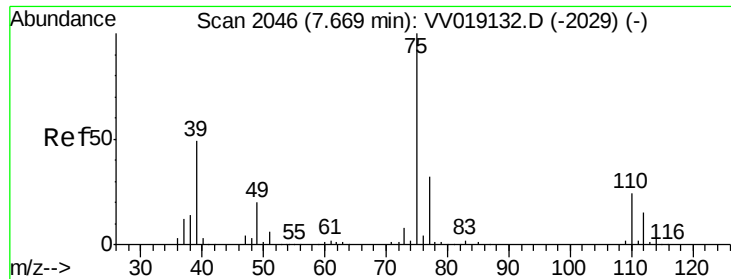
Tot Ion: 43 Resp: 10877  
Ion Ratio Lower Upper  
43 100  
58 35.3 29.6 44.4  
100 15.5 10.9 16.3



#42  
Toluene  
Concen: 2.642 ug/L  
RT: 7.41 min Scan# 1966  
Delta R.T. 0.01 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion: 91 Resp: 19137  
Ion Ratio Lower Upper  
91 100  
92 57.7 40.9 76.0





#44

trans-1,3-Dichloropropene

Concen: 2.643 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

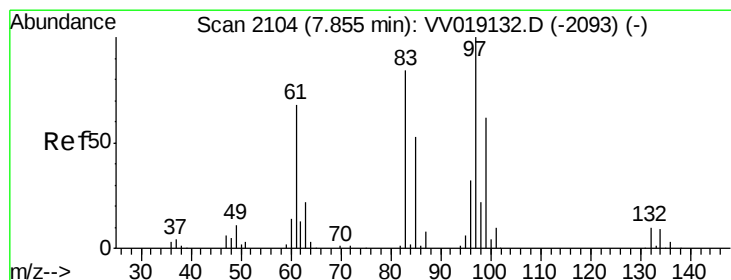
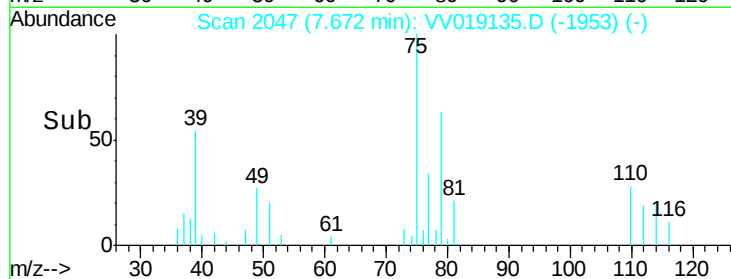
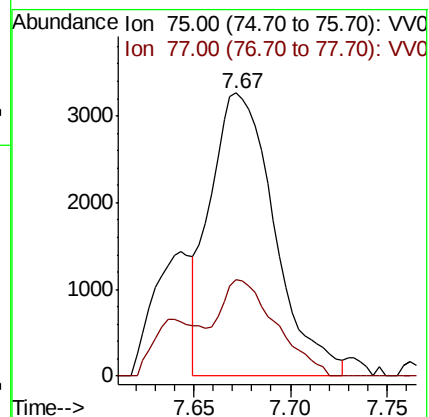
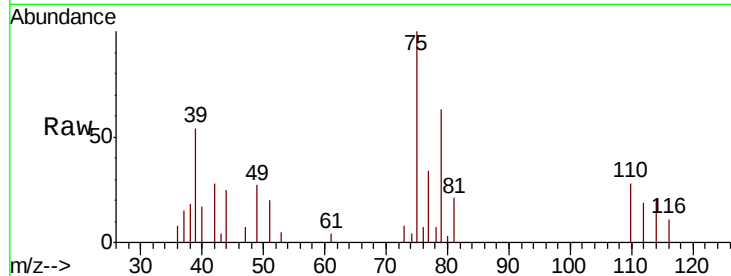
MDL01

Tot Ion: 75 Resp: 7526

Ion Ratio Lower Upper

75 100

77 34.1 21.5 39.9



#45

1,1,2-Trichloroethane

Concen: 2.594 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Tgt Ion: 97 Resp: 4451

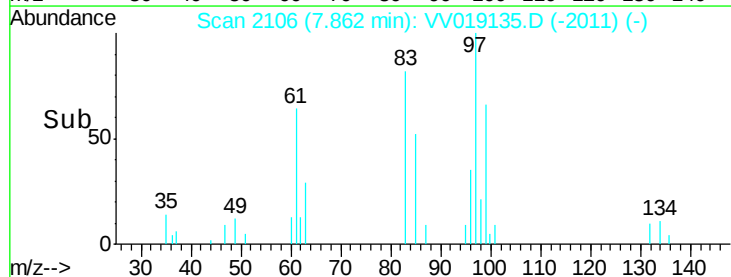
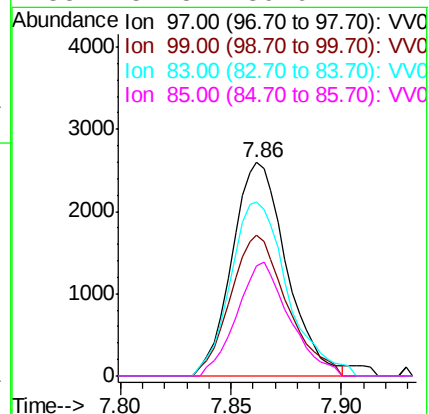
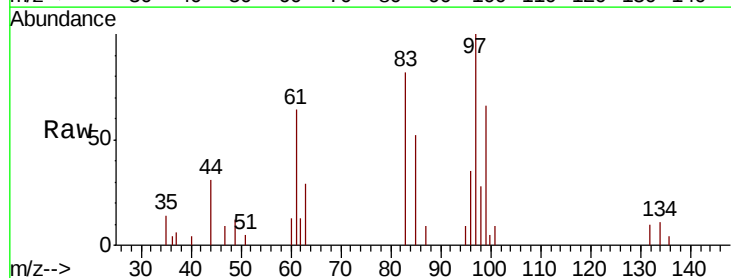
Ion Ratio Lower Upper

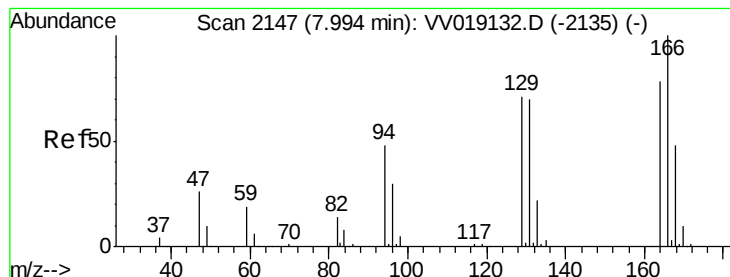
97 100

99 65.7 43.5 80.9

83 81.8 62.2 115.4

85 51.8 39.9 74.1





#46

Tetrachloroethene

Concen: 2.924 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

Tot Ion:164 Resp: 4001

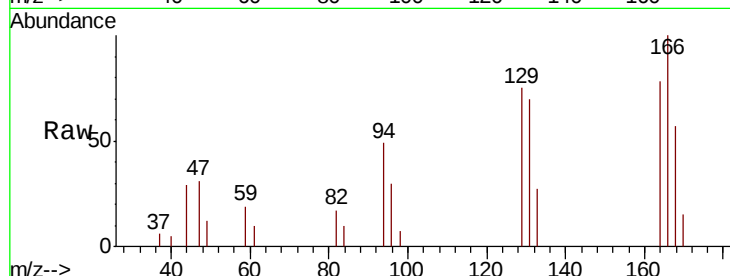
Ion Ratio Lower Upper

164 100

129 97.0 65.5 121.6

131 90.4 62.4 115.8

166 128.6 90.0 167.2

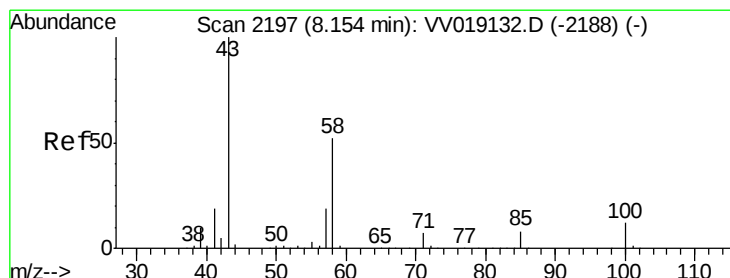
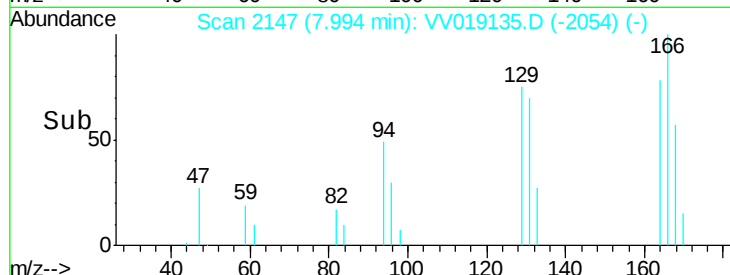
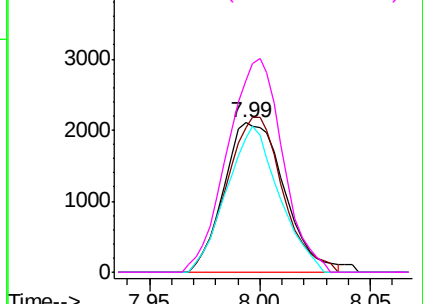


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 5.508 ug/L

RT: 8.16 min Scan# 2199

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Tgt Ion: 43 Resp: 11139

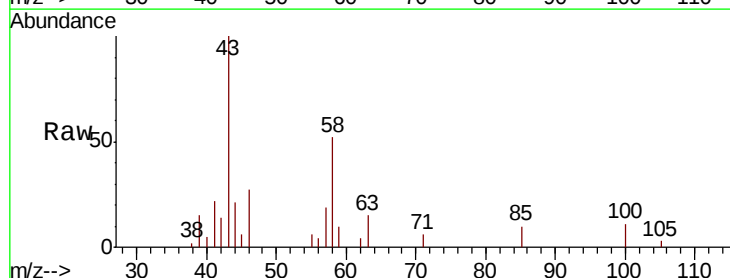
Ion Ratio Lower Upper

43 100

58 47.6 41.1 61.7

57 19.2 14.7 22.1

100 10.4 8.6 12.8

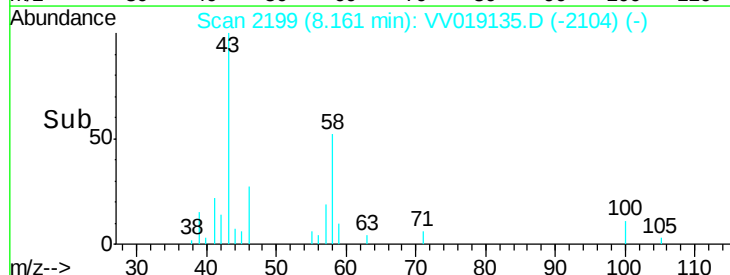
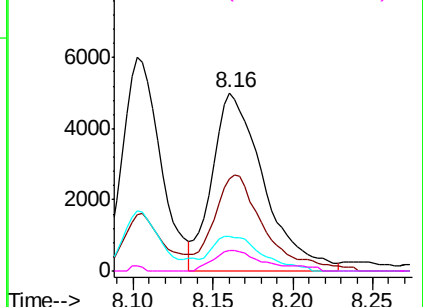


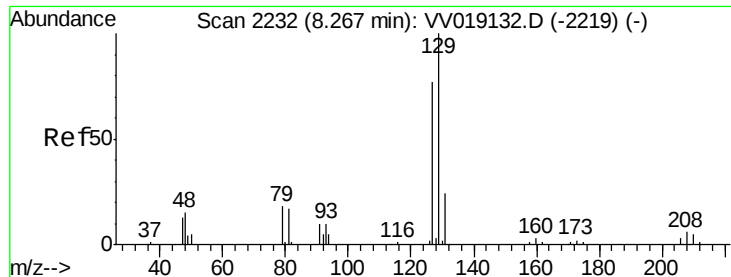
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

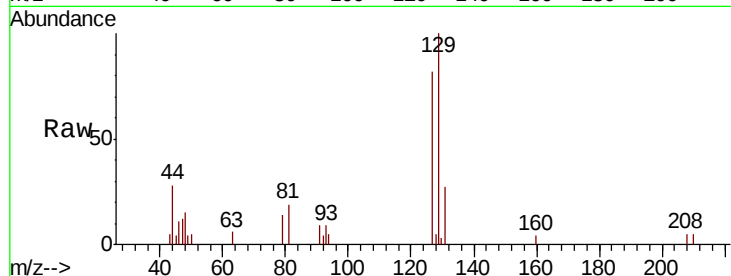




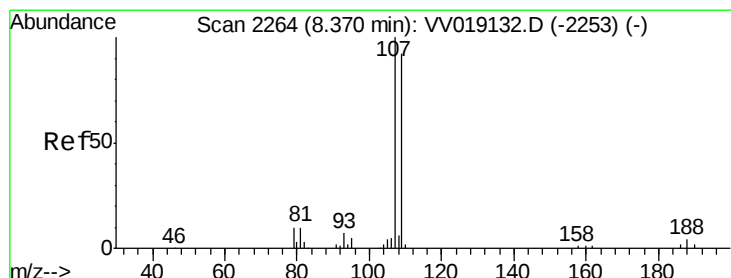
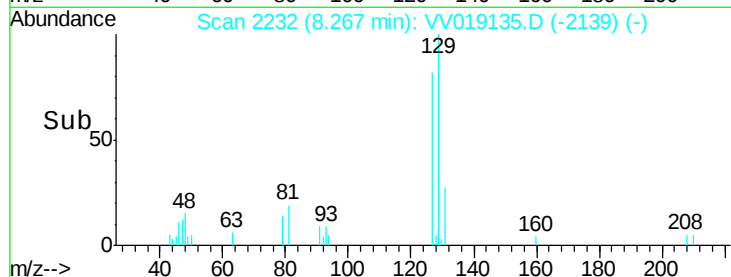
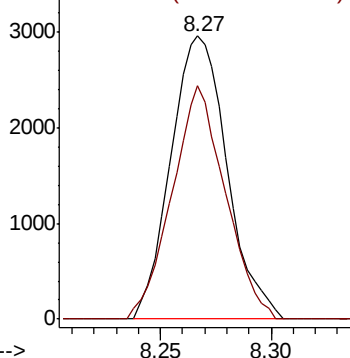
#49  
Dibromochloromethane  
Concen: 2.799 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

Tot Ion:129 Resp: 5248  
Ion Ratio Lower Upper  
129 100  
127 82.4 53.7 99.7

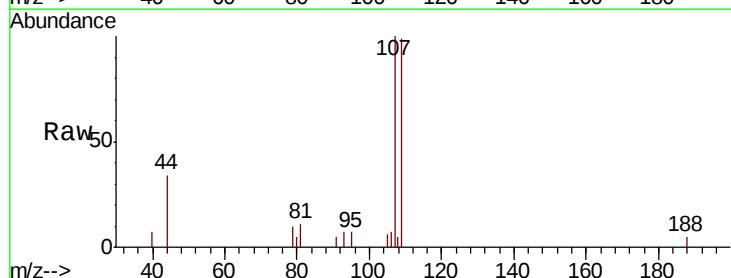


Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

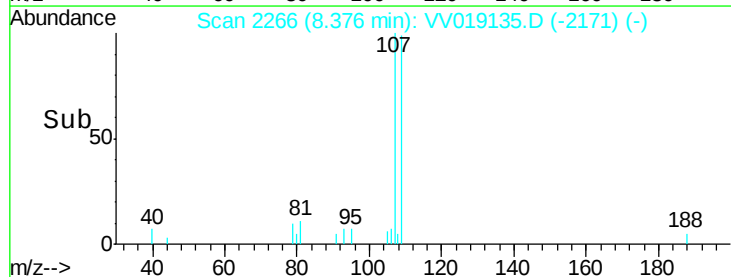
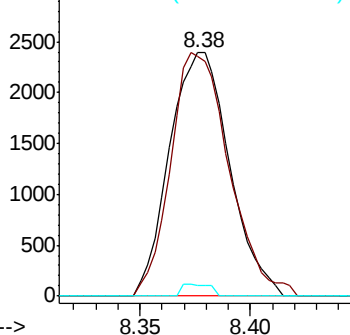


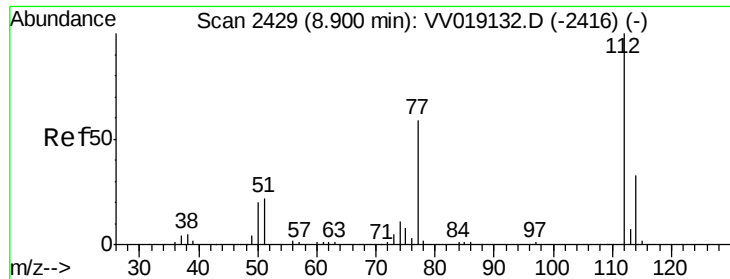
#50  
1,2-Dibromoethane  
Concen: 2.535 ug/L  
RT: 8.38 min Scan# 2266  
Delta R.T. 0.01 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion:107 Resp: 4513  
Ion Ratio Lower Upper  
107 100  
109 98.6 66.1 122.7  
188 4.6 3.2 4.8



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

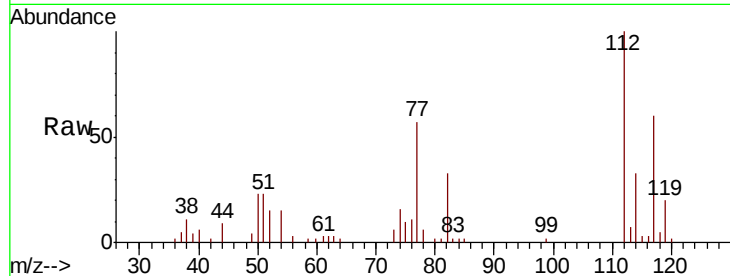




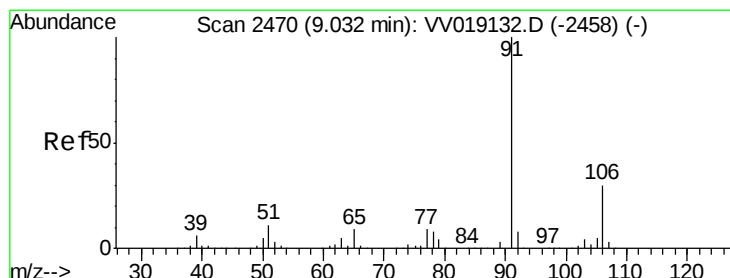
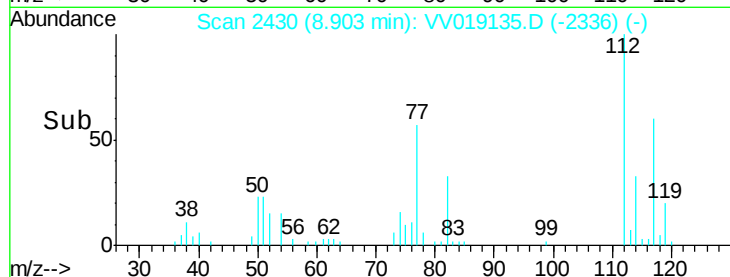
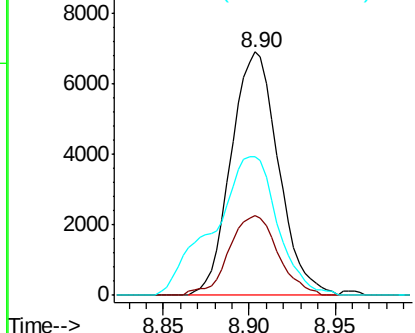
#51  
Chlorobenzene  
Concen: 2.852 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL01

Tot Ion:112 Resp: 13248  
Ion Ratio Lower Upper  
112 100  
114 32.6 22.2 41.2  
77 57.1 49.1 73.7

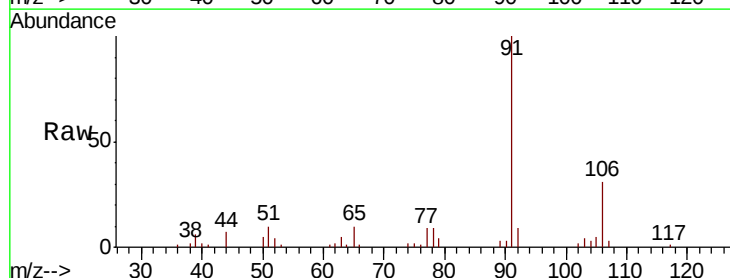


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V

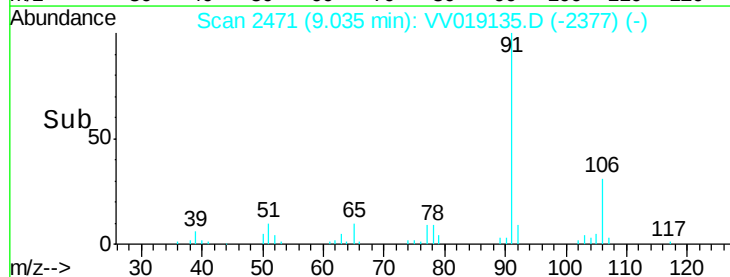
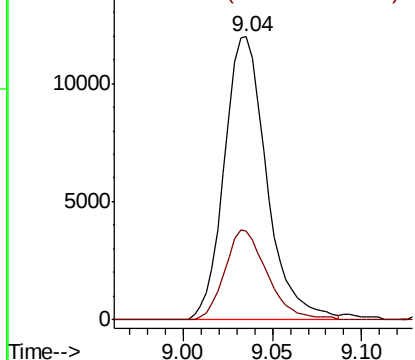


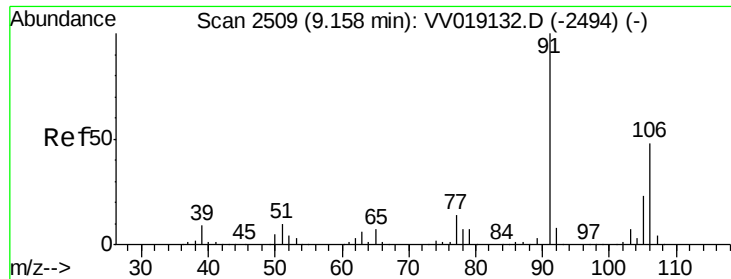
#52  
Ethylbenzene  
Concen: 2.538 ug/L  
RT: 9.04 min Scan# 2471  
Delta R.T. 0.00 min  
Lab File: VV019135.D  
Acq: 28 Oct 2020 12:11

Tgt Ion: 91 Resp: 19880  
Ion Ratio Lower Upper  
91 100  
106 31.4 20.9 38.7



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





#53

m,p-Xylene

Concen: 2.534 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

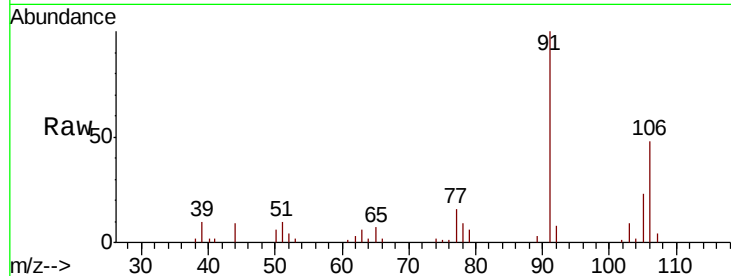
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

Tot Ion:106 Resp: 7265

Ion Ratio Lower Upper

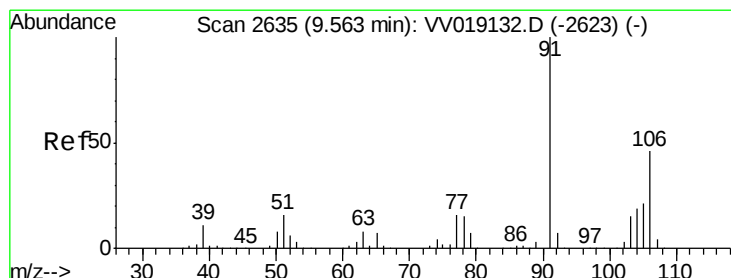
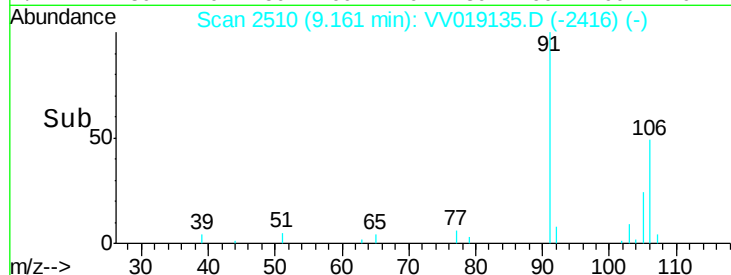
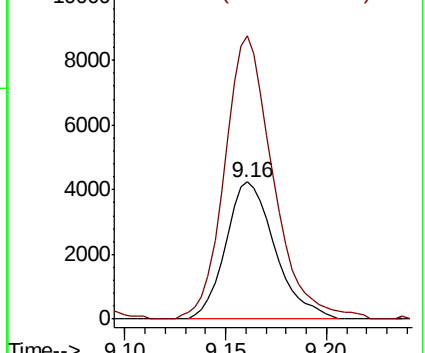
106 100

91 206.6 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 2.394 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019135.D

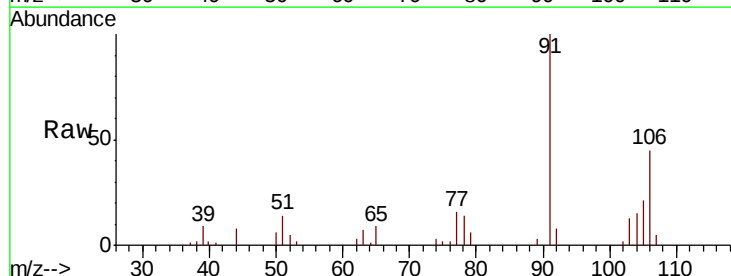
Acq: 28 Oct 2020 12:11

Tgt Ion:106 Resp: 6608

Ion Ratio Lower Upper

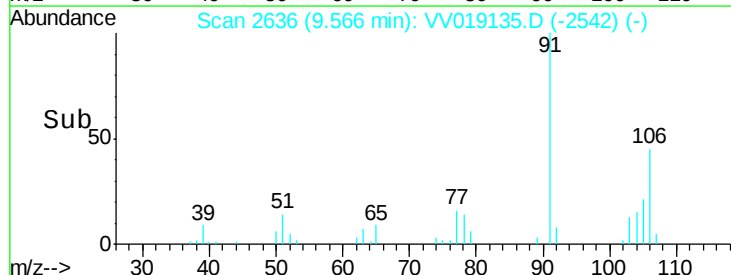
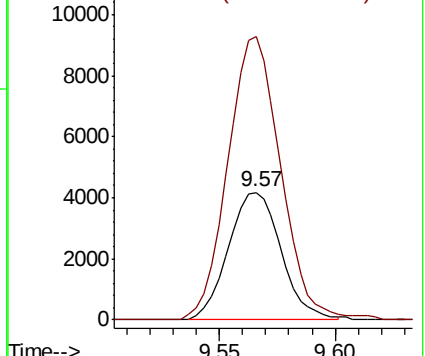
106 100

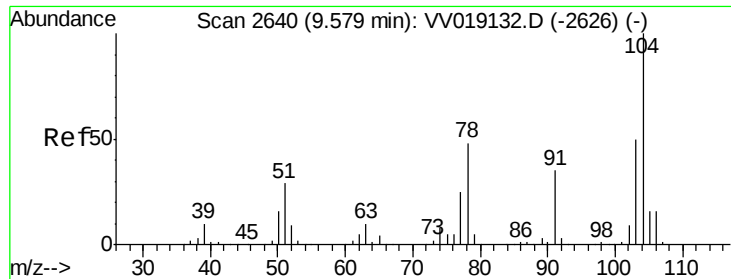
91 221.9 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 2.364 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

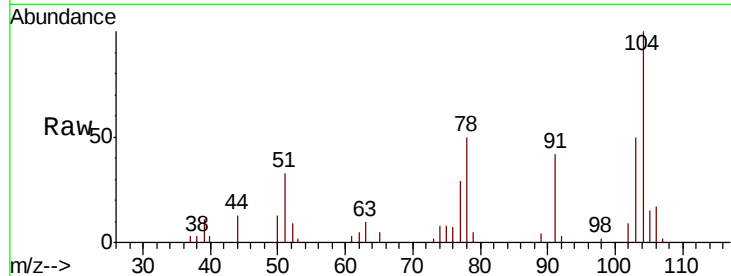
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

Tot Ion:104 Resp: 11577

Ion Ratio Lower Upper

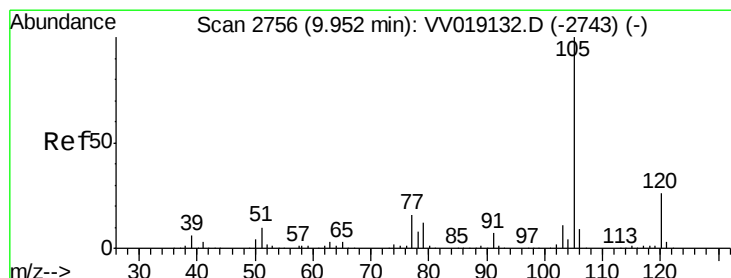
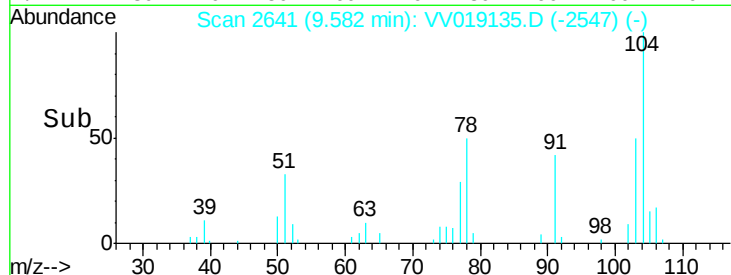
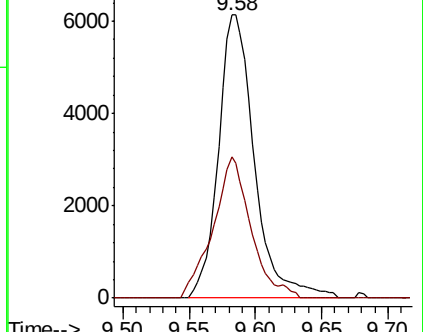
104 100

78 49.7 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 2.408 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

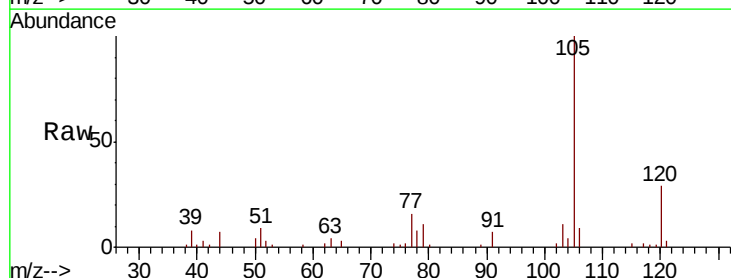
Tgt Ion:105 Resp: 17477

Ion Ratio Lower Upper

105 100

120 28.7 20.6 31.0

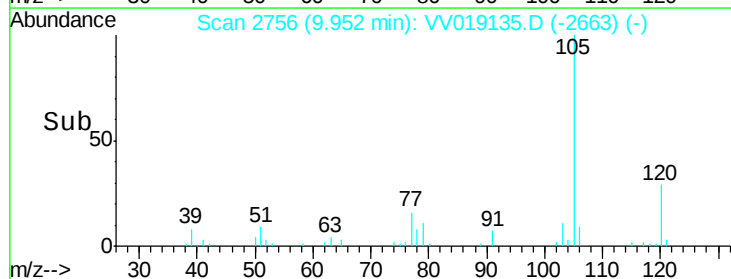
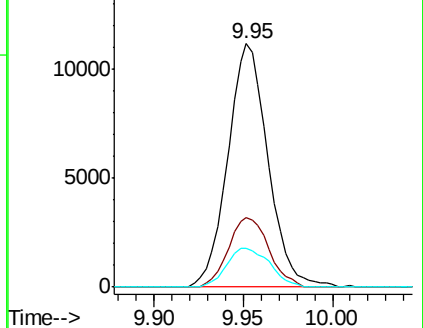
77 17.2 13.4 20.0

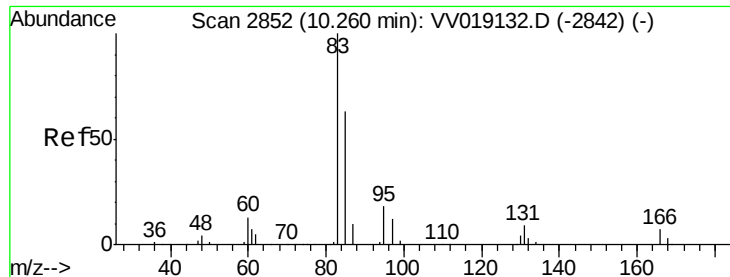


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 2.620 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampleId :

MDL01

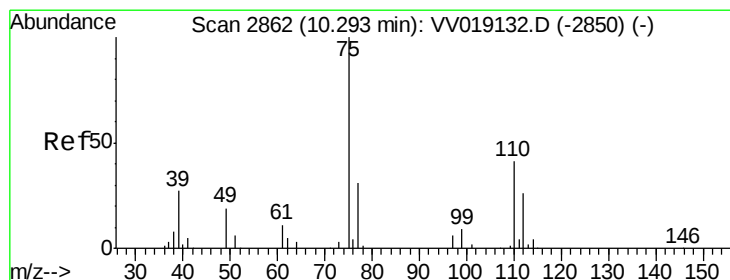
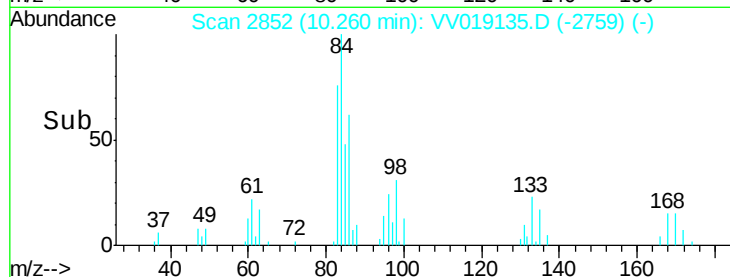
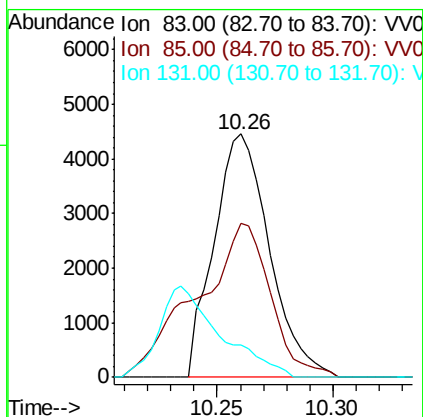
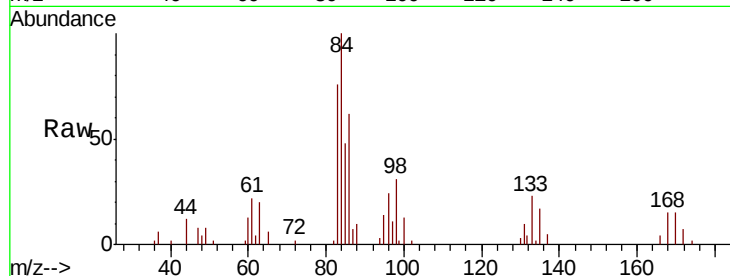
Tot Ion: 83 Resp: 7396

Ion Ratio Lower Upper

83 100

85 63.1 44.2 82.2

131 13.3 7.4 11.2#



#59

1,2,3-Trichloropropane

Concen: 2.529 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019135.D

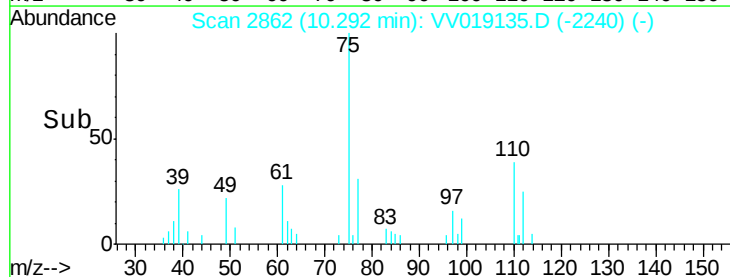
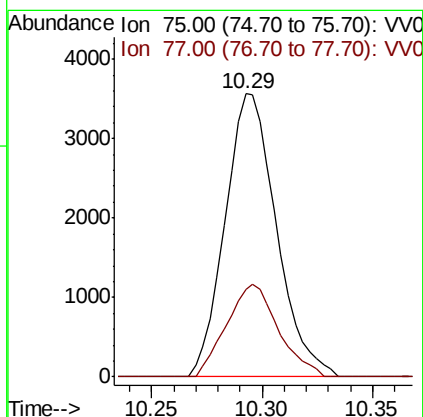
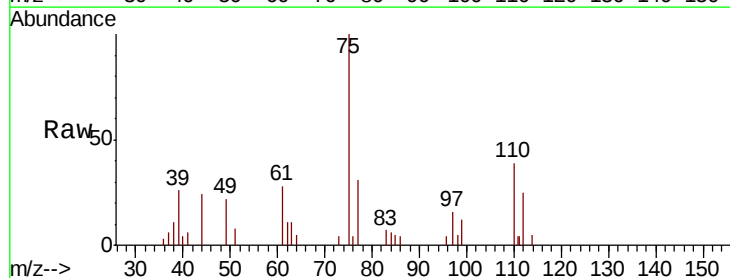
Acq: 28 Oct 2020 12:11

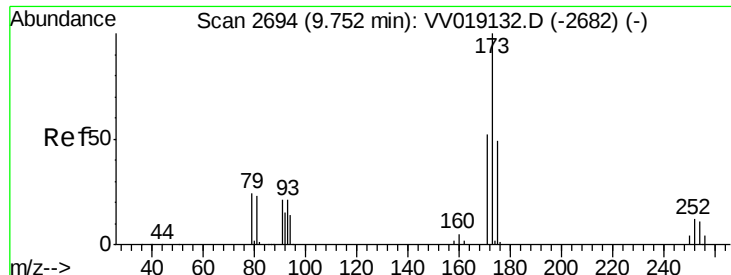
Tgt Ion: 75 Resp: 5744

Ion Ratio Lower Upper

75 100

77 32.9 25.9 38.9





#61

Bromoform

Concen: 2.903 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL01

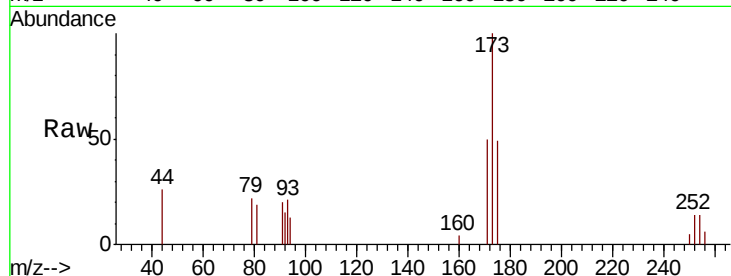
Tot Ion:173 Resp: 3917

Ion Ratio Lower Upper

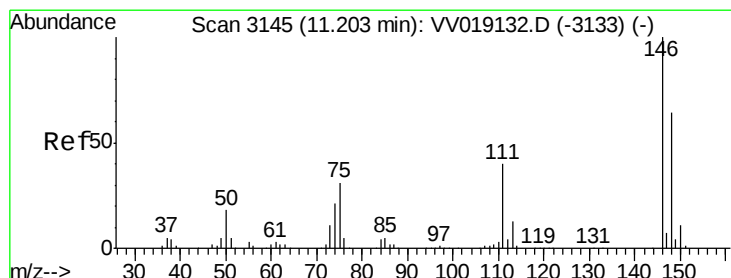
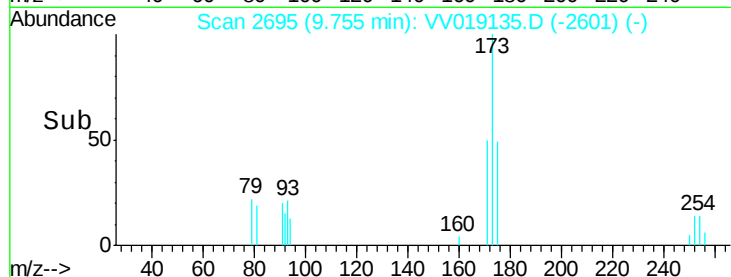
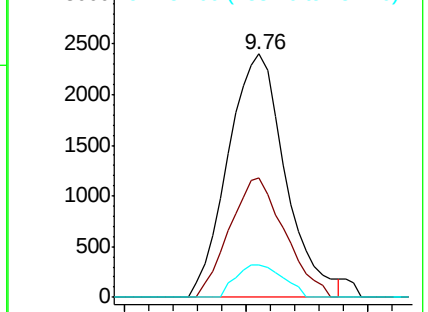
173 100

175 47.2 38.3 57.5

254 11.0 8.3 12.5



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 2.683 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

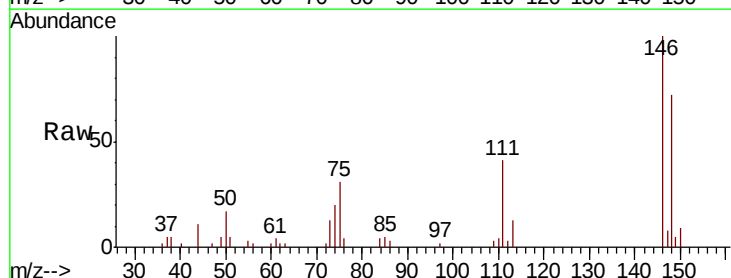
Tgt Ion:146 Resp: 9647

Ion Ratio Lower Upper

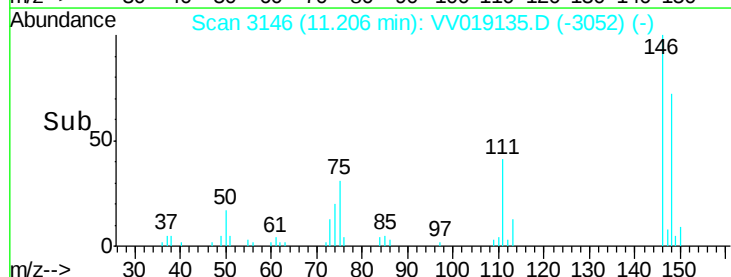
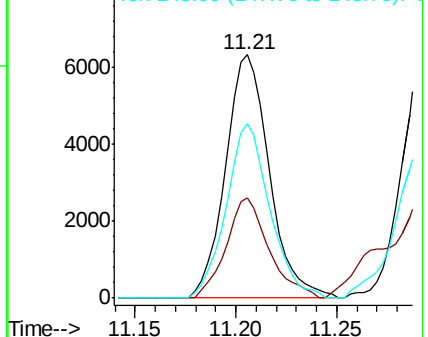
146 100

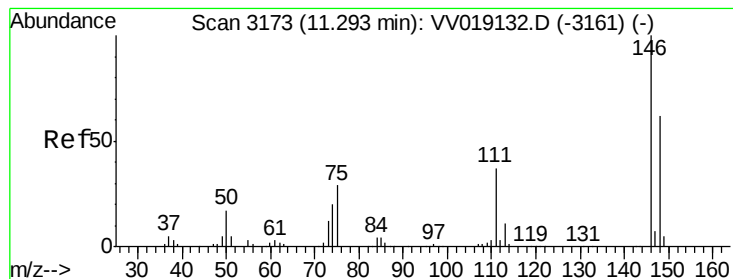
111 41.4 28.8 53.4

148 71.8 44.5 82.7



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





#63

1,4-Dichlorobenzene

Concen: 2.897 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

MDL01

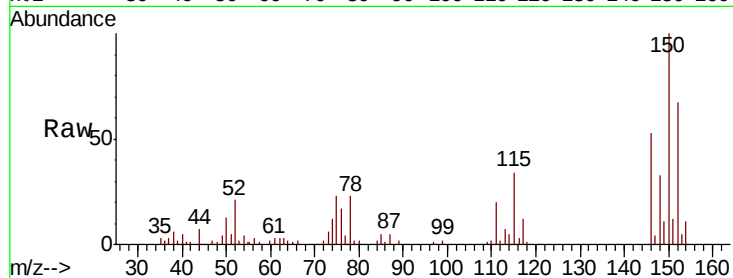
Tot Ion:146 Resp: 10885

Ion Ratio Lower Upper

146 100

111 38.4 27.8 51.6

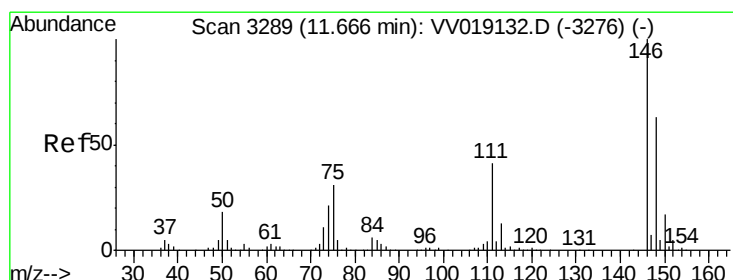
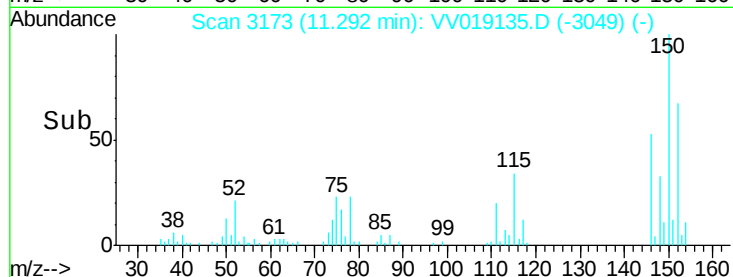
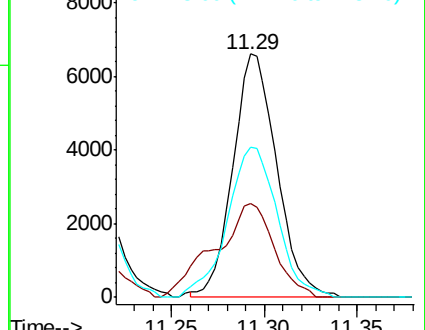
148 61.7 45.1 83.9



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: 3.117 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

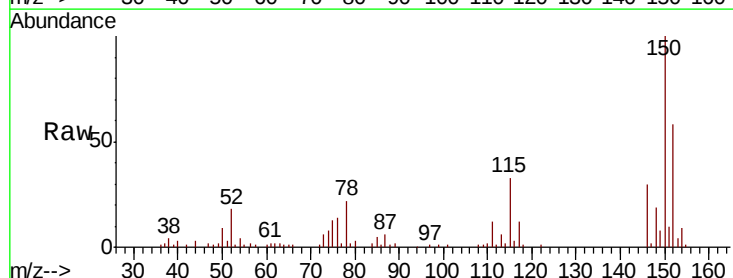
Tgt Ion:146 Resp: 11302

Ion Ratio Lower Upper

146 100

111 38.6 33.3 49.9

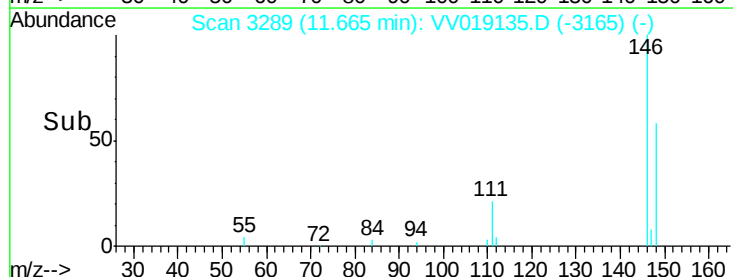
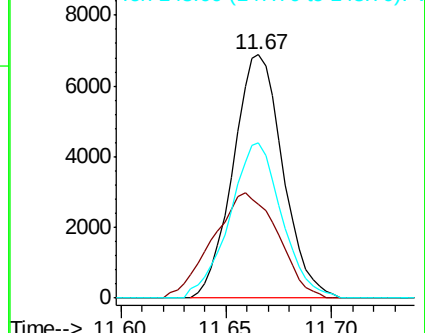
148 64.0 51.1 76.7

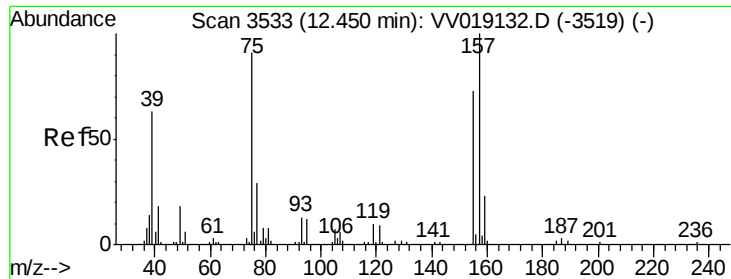


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

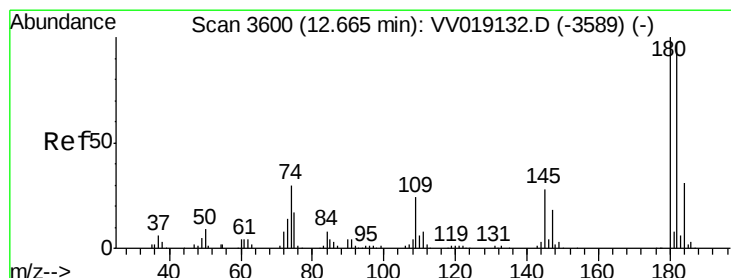
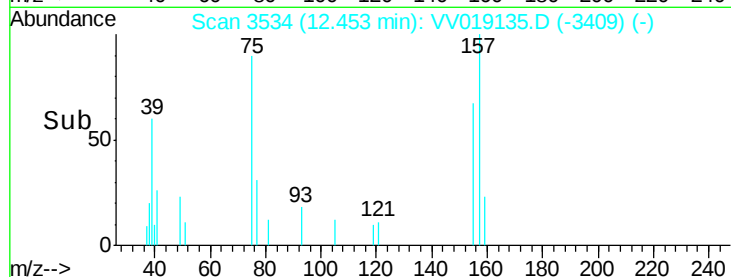
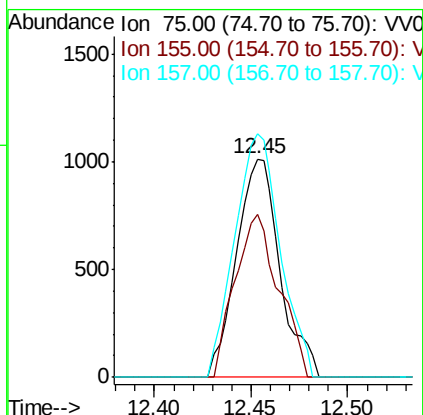
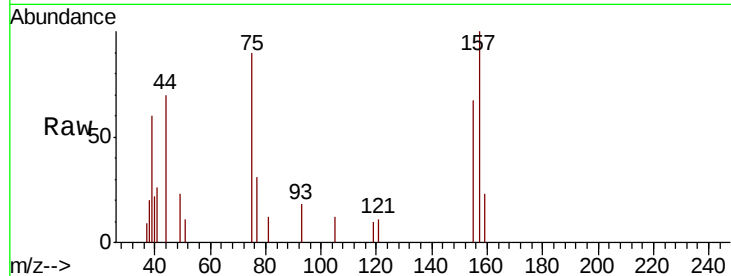




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.471 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. 0.00 min  
 Lab File: VV019135.D  
 Acq: 28 Oct 2020 12:11

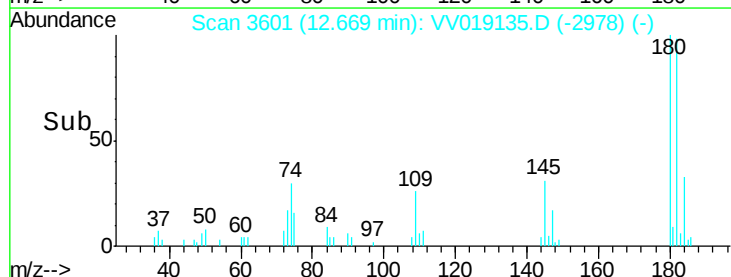
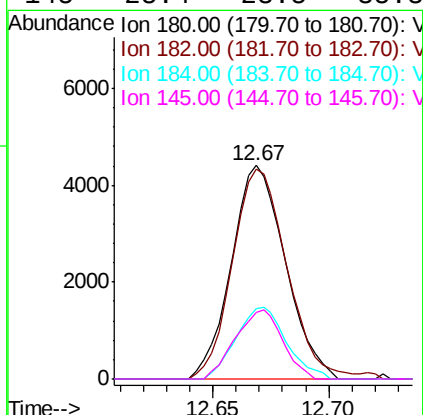
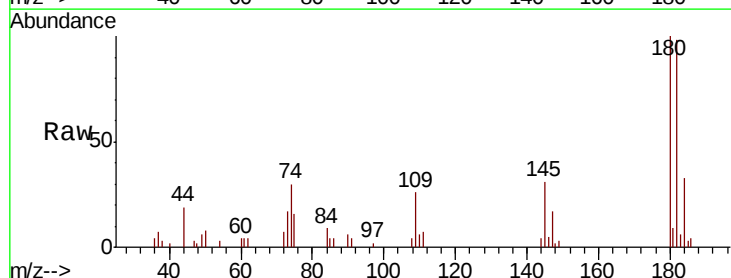
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL01

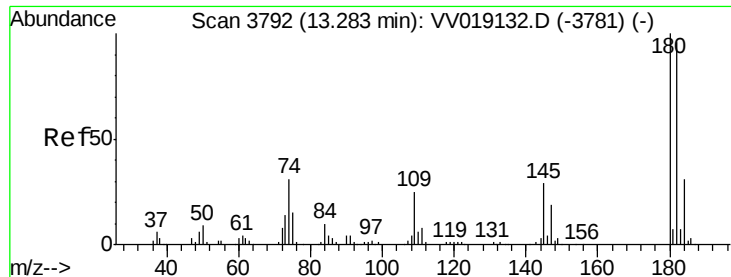
Tot Ion: 75 Resp: 1583  
 Ion Ratio Lower Upper  
 75 100  
 155 74.5 62.2 93.4  
 157 111.5 79.9 119.9



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.896 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV019135.D  
 Acq: 28 Oct 2020 12:11

Tgt Ion: 180 Resp: 7111  
 Ion Ratio Lower Upper  
 180 100  
 182 99.4 77.4 116.0  
 184 31.5 24.7 37.1  
 145 28.4 23.5 35.3





#68

1,2,4-trichlorobenzene

Concen: 2.708 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

Instrument :

MSVOA\_V

ClientSampled :

MDL01

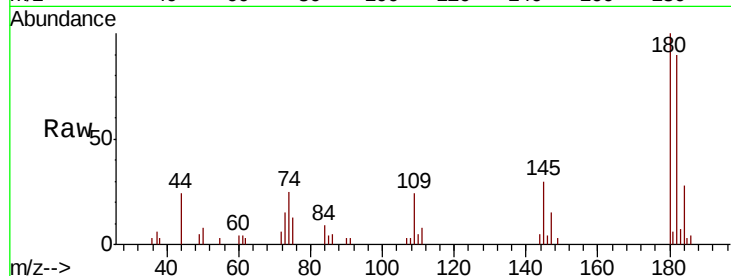
Tot Ion:180 Resp: 6270

Ion Ratio Lower Upper

180 100

182 96.9 77.4 116.2

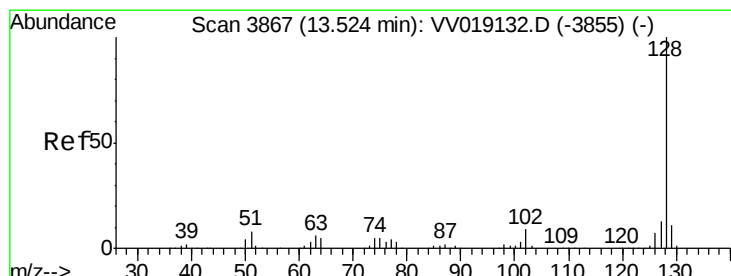
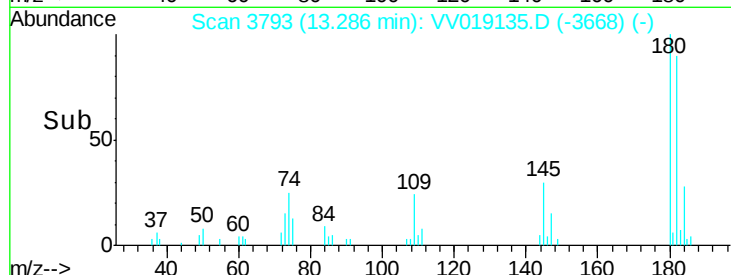
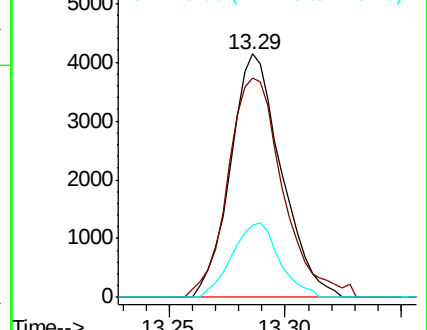
145 28.5 23.7 35.5



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: 1.950 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019135.D

Acq: 28 Oct 2020 12:11

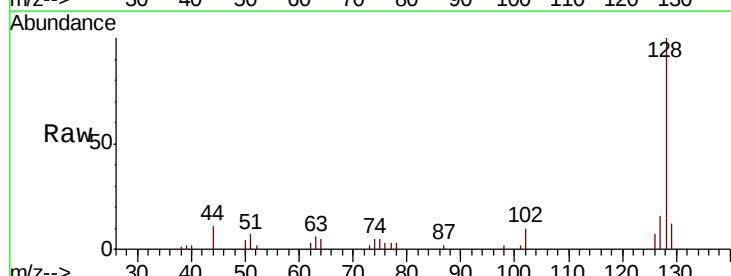
Tgt Ion:128 Resp: 13910

Ion Ratio Lower Upper

128 100

127 14.4 10.6 15.8

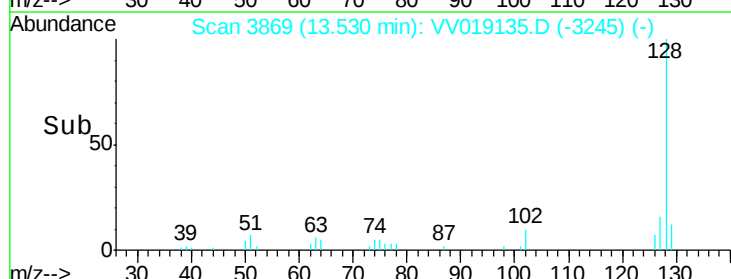
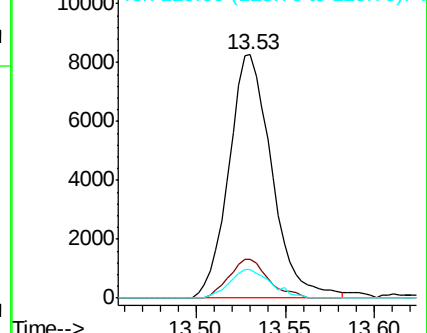
129 11.1 8.7 13.1

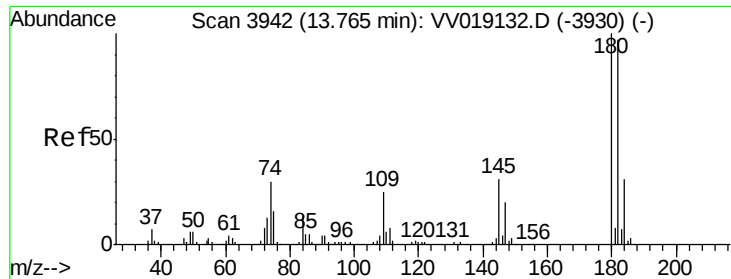


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.638 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV019135.D  
 Acq: 28 Oct 2020 12:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 90.2  | 76.9  | 115.3 |
| 145     | 29.2  | 25.6  | 38.4  |

