

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV080719\  
 Data File : VV012124.D  
 Acq On : 07 Aug 2019 13:44  
 Operator : SY/MD  
 Sample : MDL04  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Quant Time: Aug 08 01:15:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM080619W.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 08 01:11:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 229149   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 214903   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 110801   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 56675    | 45.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.50%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 38606    | 43.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.84%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 72939    | 33.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.18%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 95772    | 104.94   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.94% |
| 24) Chloroform-d               | 4.40    | 84    | 149116   | 47.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 103167   | 51.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.20% |
| 32) Benzene-d6                 | 5.10    | 84    | 286670   | 46.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 84505    | 47.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.34%  |
| 41) Toluene-d8                 | 7.36    | 98    | 284760   | 47.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.52%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 50830    | 49.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.80%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 81245    | 109.20   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.20% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 135312   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 107.18% |
| 66) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 133646   | 51.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.58% |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 5257  | 3.248 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 3931  | 3.421 ug/L   | 98     |
| 5) Vinyl chloride              | 1.33 | 62  | 3255  | 2.934 ug/L # | 61     |
| 6) Bromomethane                | 1.53 | 94  | 1972  | 3.062 ug/L   | 99     |
| 8) Chloroethane                | 1.60 | 64  | 1518  | 2.613 ug/L   | 88     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 4868  | 2.699 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 3028  | 3.425 ug/L # | 59     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 2859  | 3.434 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 3493  | 5.613 ug/L   | 91     |
| 14) Carbon disulfide           | 2.32 | 76  | 7789  | 2.769 ug/L   | 96     |
| 15) Methyl Acetate             | 2.46 | 43  | 2974  | 2.731 ug/L   | 96     |
| 16) Methylene chloride         | 2.53 | 84  | 3694  | 2.924 ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 3304  | 2.811 ug/L   | 94     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 11780 | 2.916 ug/L # | 90     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 2956  | 1.379 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 2238  | 1.616 ug/L   | 98     |
| 22) 2-Butanone                 | 4.03 | 43  | 4424  | 5.516 ug/L   | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV080719\  
 Data File : VV012124.D  
 Acq On : 07 Aug 2019 13:44  
 Operator : SY/MD  
 Sample : MDL04  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

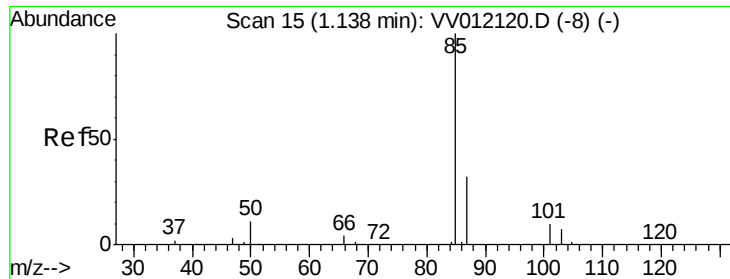
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Quant Time: Aug 08 01:15:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM080619W.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 08 01:11:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.30  | 128  | 958      | 1.258 | ug/L   | 93       |
| 25) Chloroform                 | 4.42  | 83   | 8619     | 3.547 | ug/L   | 78       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 5771     | 3.056 | ug/L # | 93       |
| 29) Cyclohexane                | 4.72  | 56   | 4368     | 2.431 | ug/L # | 93       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 6522     | 2.857 | ug/L # | 86       |
| 31) Carbon tetrachloride       | 4.88  | 117  | 5571     | 2.631 | ug/L   | 88       |
| 33) Benzene                    | 5.15  | 78   | 12387    | 2.504 | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 3877     | 2.820 | ug/L   | 90       |
| 35) Methylcyclohexane          | 6.18  | 83   | 6000     | 2.932 | ug/L   | 95       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 1718     | 1.424 | ug/L # | 92       |
| 38) Bromodichloromethane       | 6.56  | 83   | 5390     | 2.840 | ug/L # | 85       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 6012     | 2.826 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 8789     | 5.659 | ug/L   | 99       |
| 42) Toluene                    | 7.43  | 91   | 16258    | 2.958 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 5306     | 2.642 | ug/L   | 89       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 3793     | 2.916 | ug/L   | 96       |
| 46) Tetrachloroethene          | 8.02  | 164  | 3740     | 2.919 | ug/L   | 90       |
| 48) 2-Hexanone                 | 8.18  | 43   | 7873     | 6.724 | ug/L   | 91       |
| 49) Dibromochloromethane       | 8.29  | 129  | 4665     | 2.764 | ug/L   | 92       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 4407     | 3.064 | ug/L   | 99       |
| 51) Chlorobenzene              | 8.93  | 112  | 11008    | 2.970 | ug/L   | 93       |
| 52) Ethylbenzene               | 9.05  | 91   | 17939    | 2.909 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 6580     | 2.766 | ug/L   | 97       |
| 54) o-Xylene                   | 9.59  | 106  | 7170     | 3.037 | ug/L   | 96       |
| 55) Styrene                    | 9.60  | 104  | 10897    | 2.740 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 6560     | 3.280 | ug/L # | 92       |
| 59) Bromoform                  | 9.77  | 173  | 3794     | 2.919 | ug/L # | 93       |
| 60) Isopropylbenzene           | 9.97  | 105  | 17505    | 2.886 | ug/L   | 96       |
| 61) 1,2,3-Trichloropropane     | 10.32 | 75   | 5273     | 3.505 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene     | 10.58 | 105  | 15148    | 2.889 | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene     | 10.96 | 105  | 14648    | 2.830 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene        | 11.23 | 146  | 9113     | 2.978 | ug/L   | 94       |
| 65) 1,4-Dichlorobenzene        | 11.32 | 146  | 10236    | 3.309 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 11.69 | 146  | 9937     | 3.182 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 1602     | 3.231 | ug/L # | 76       |
| 69) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 6681     | 2.693 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene     | 13.31 | 180  | 4632     | 2.153 | ug/L   | 94       |
| 71) Naphthalene                | 13.56 | 128  | 10539    | 1.933 | ug/L   | 95       |
| 72) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 4720     | 2.180 | ug/L   | 96       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 3.248 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

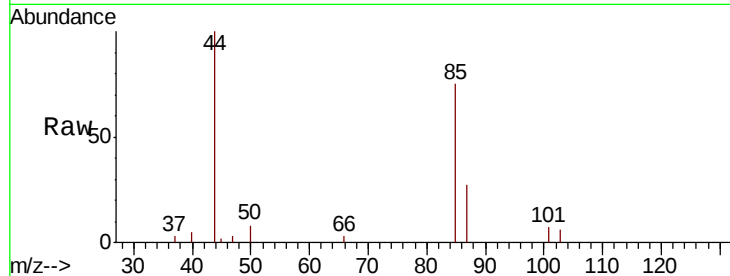
MDL04

Tgt Ion: 85 Resp: 5257

Ion Ratio Lower Upper

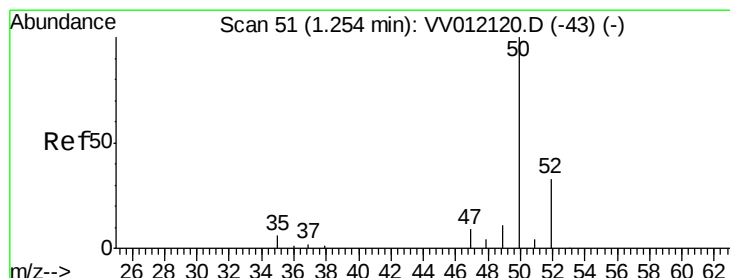
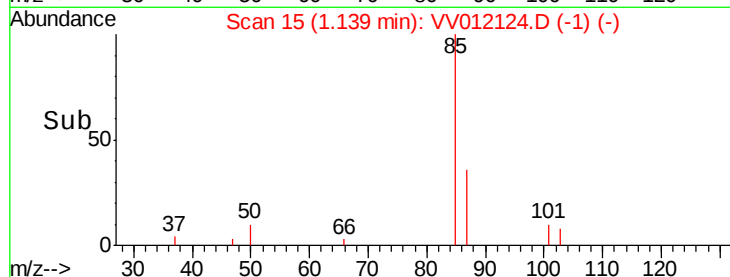
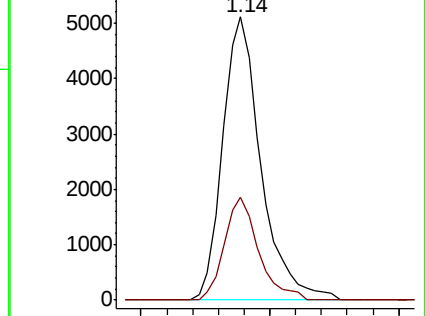
85 100

87 32.5 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 3.421 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012124.D

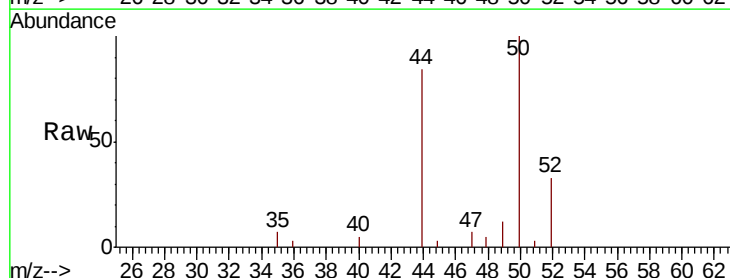
Acq: 07 Aug 2019 13:44

Tgt Ion: 50 Resp: 3931

Ion Ratio Lower Upper

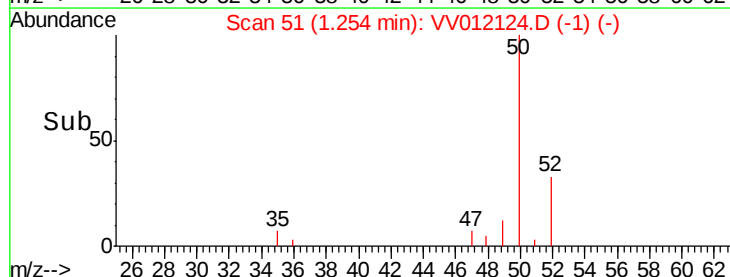
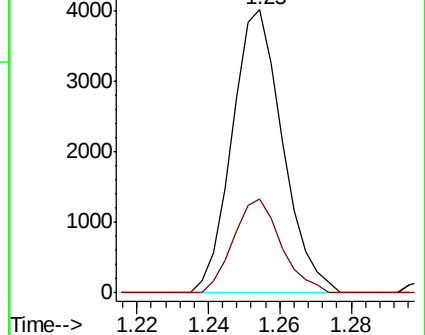
50 100

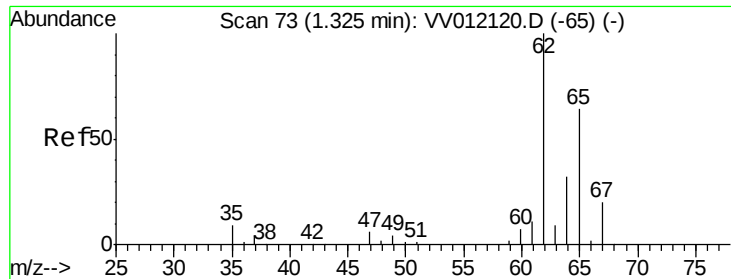
52 33.2 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.934 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampled :

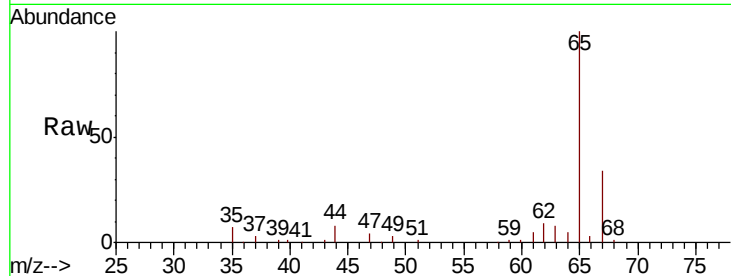
MDL04

Tgt Ion: 62 Resp: 3255

Ion Ratio Lower Upper

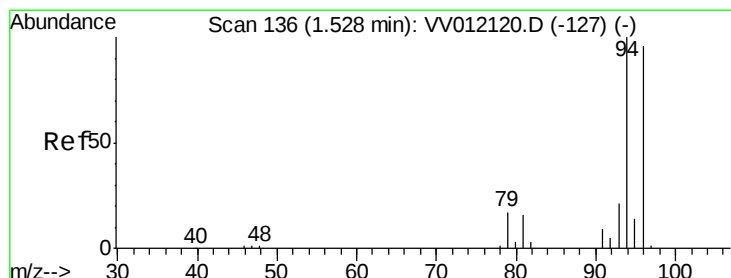
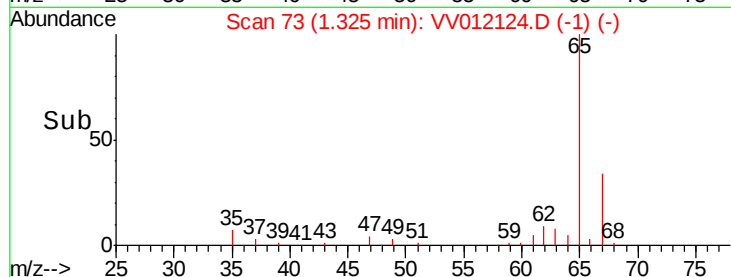
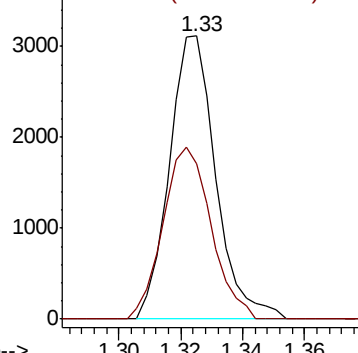
62 100

64 55.0 23.0 42.8#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 3.062 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV012124.D

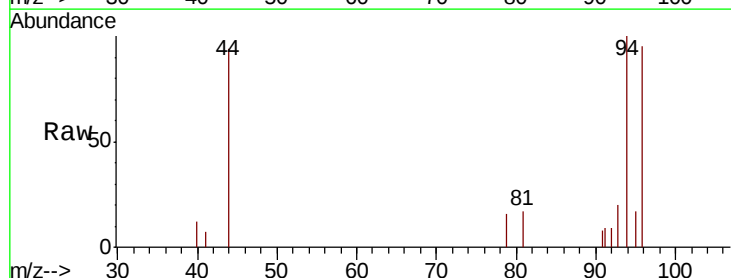
Acq: 07 Aug 2019 13:44

Tgt Ion: 94 Resp: 1972

Ion Ratio Lower Upper

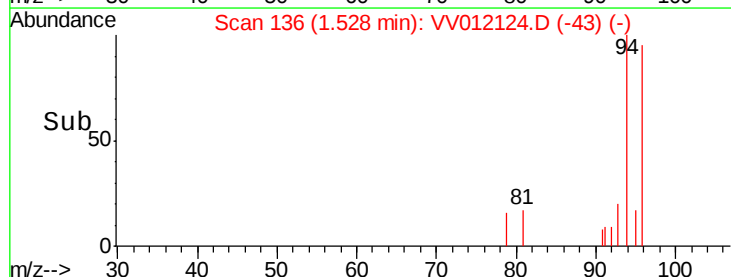
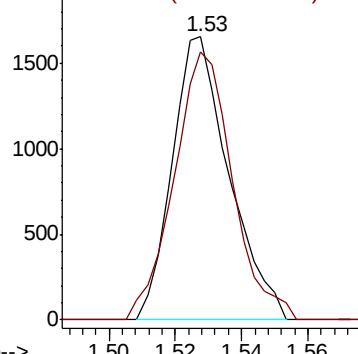
94 100

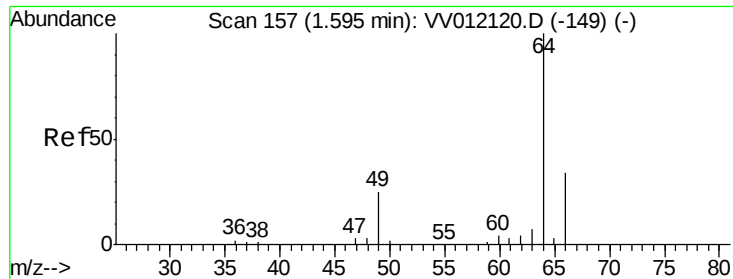
96 94.6 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.613 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

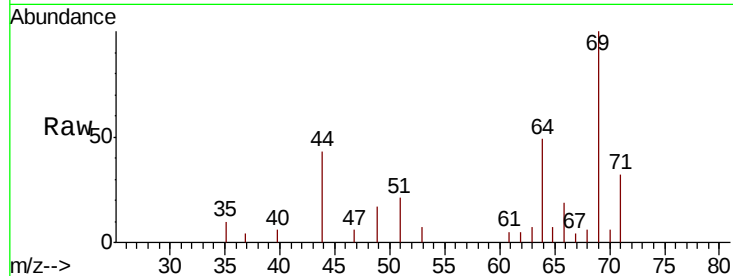
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL04

Tgt Ion: 64 Resp: 1518

Ion Ratio Lower Upper

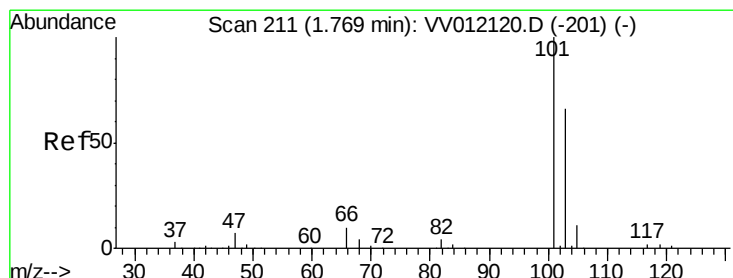
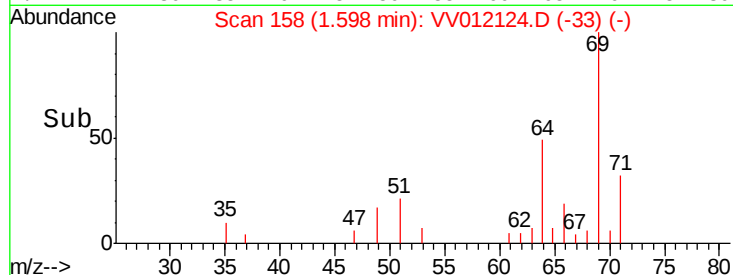
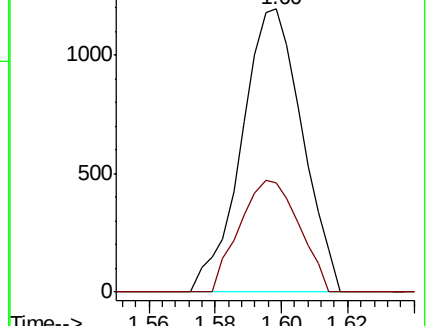
64 100

66 38.8 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV012120.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV012120.D (-149) (-)



#9

Trichlorofluoromethane

Concen: 2.699 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012124.D

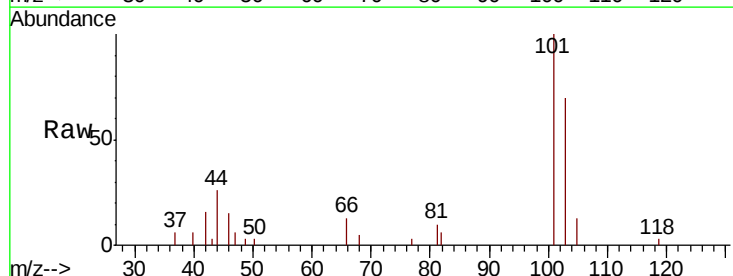
Acq: 07 Aug 2019 13:44

Tgt Ion: 101 Resp: 4868

Ion Ratio Lower Upper

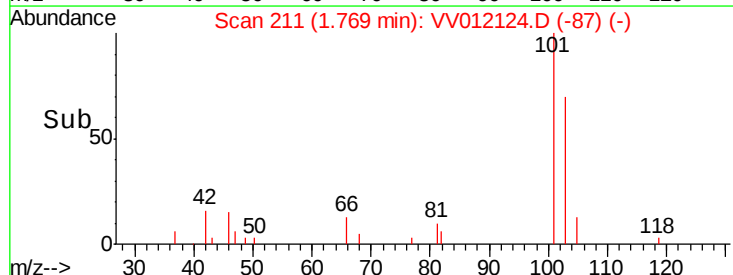
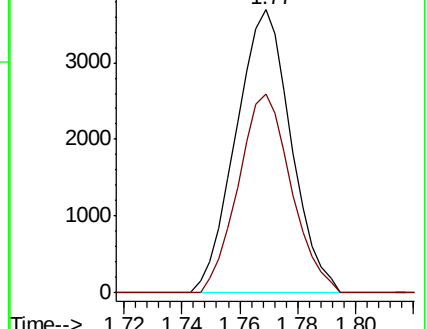
101 100

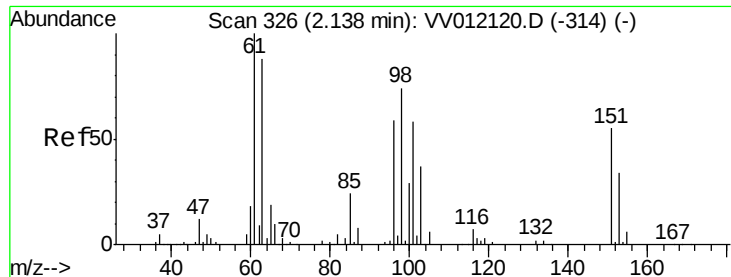
103 67.3 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012120.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012120.D (-201) (-)





#10

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

Concen: 3.425 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

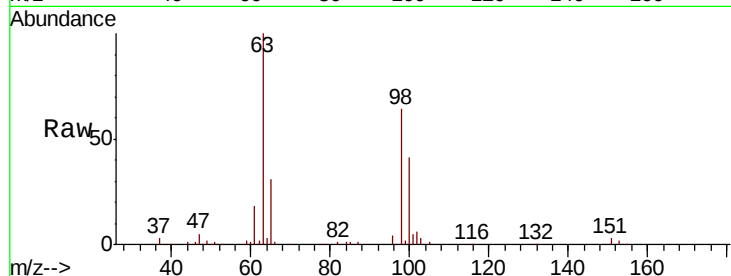
Tgt Ion: 101 Resp: 3028

Ion Ratio Lower Upper

101 100

85 33.7 34.4 51.6#

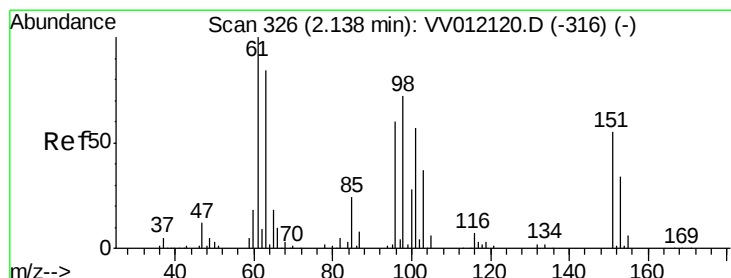
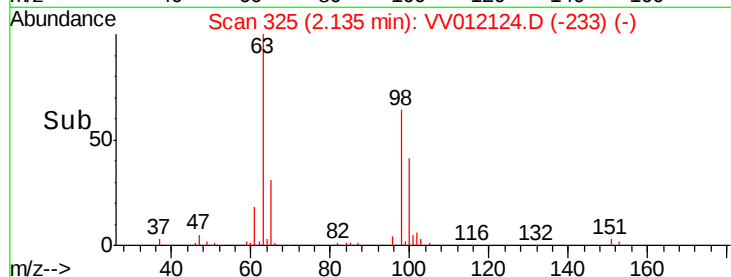
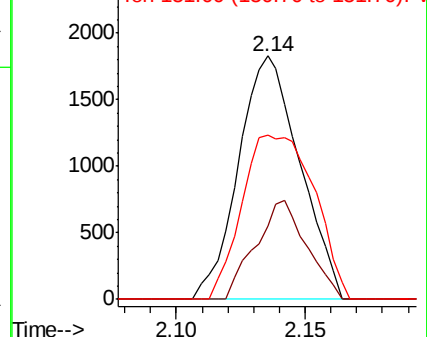
151 40.3 72.2 108.2#



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: 3.434 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

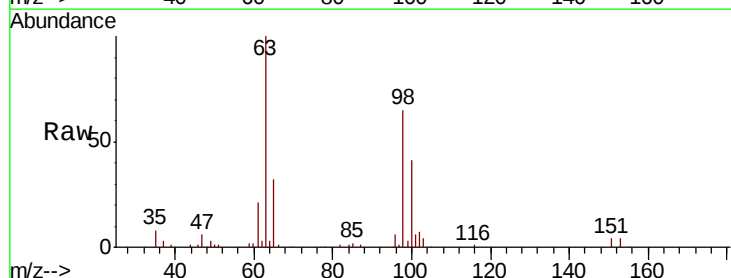
Tgt Ion: 96 Resp: 2859

Ion Ratio Lower Upper

96 100

61 326.1 120.0 223.0#

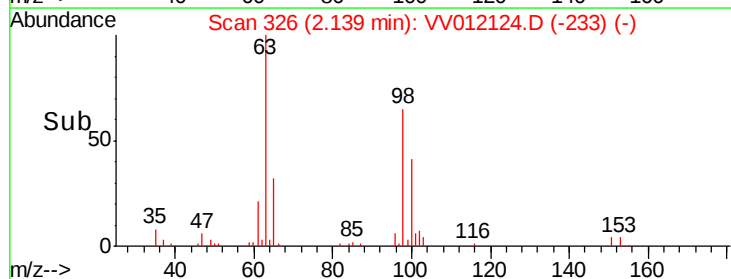
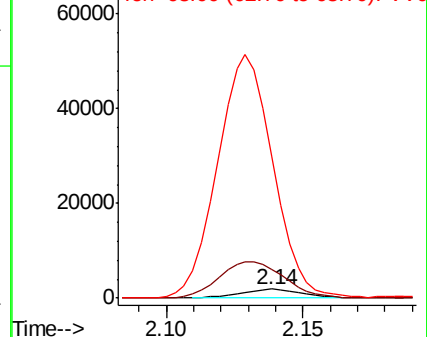
63 1575.8 98.3 182.7#

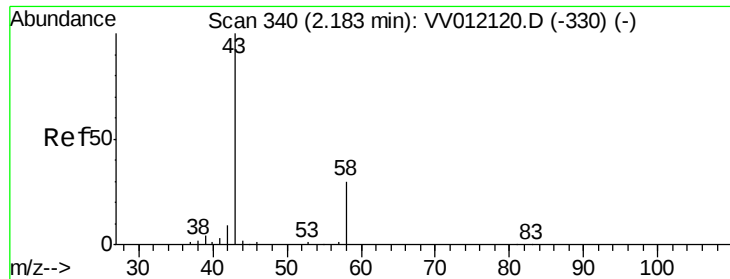


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.613 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

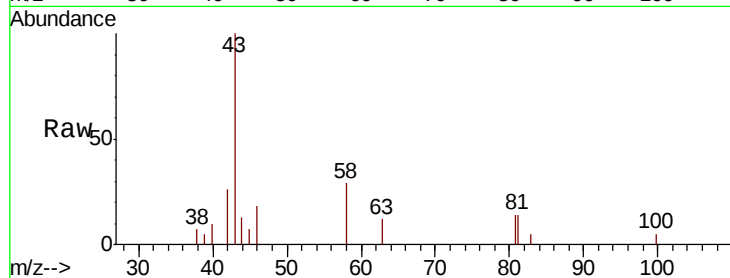
MDL04

Tgt Ion: 43 Resp: 3493

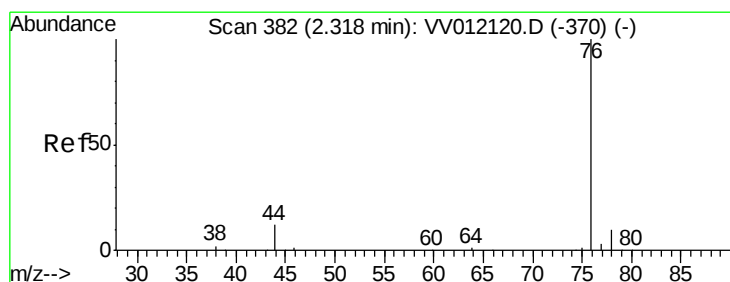
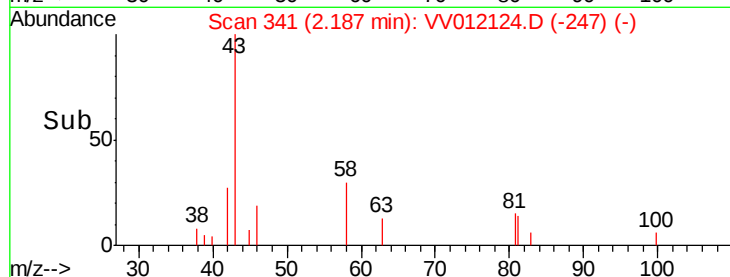
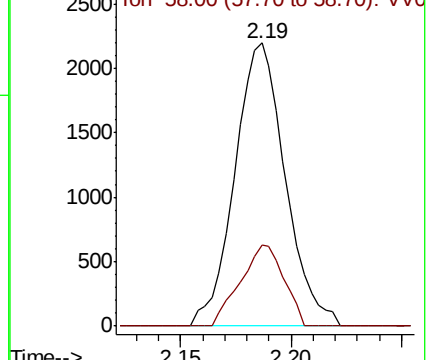
Ion Ratio Lower Upper

43 100

58 24.7 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV012120.D (-330) (-)



#14

Carbon disulfide

Concen: 2.769 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012124.D

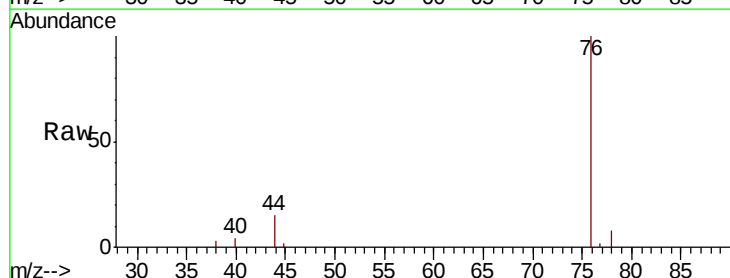
Acq: 07 Aug 2019 13:44

Tgt Ion: 76 Resp: 7789

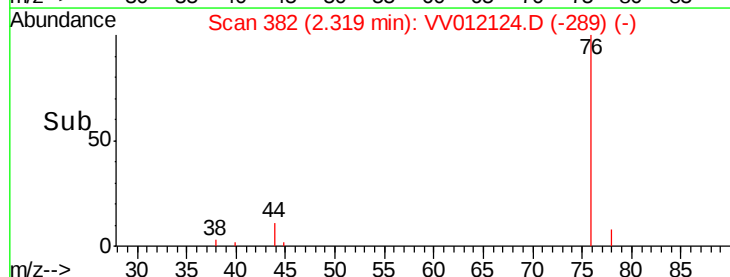
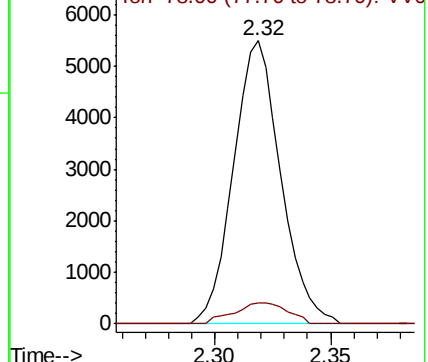
Ion Ratio Lower Upper

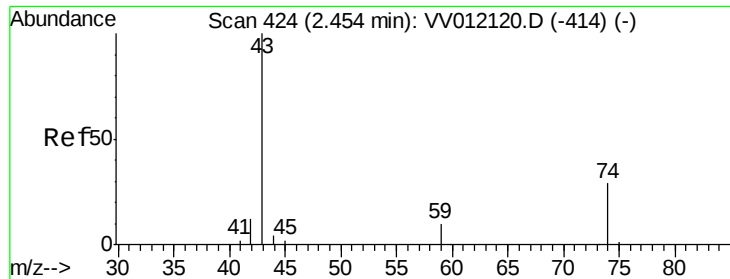
76 100

78 7.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012120.D (-370) (-)





#15

Methyl Acetate

Concen: 2.731 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

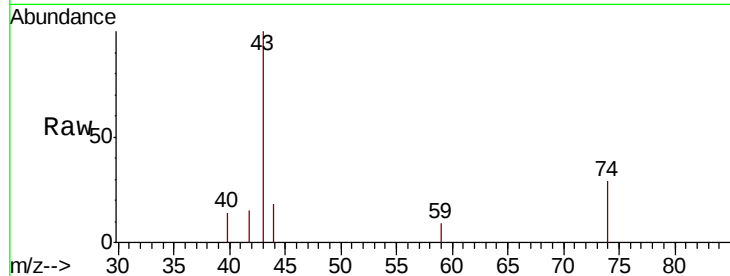
MDL04

Tgt Ion: 43 Resp: 2974

Ion Ratio Lower Upper

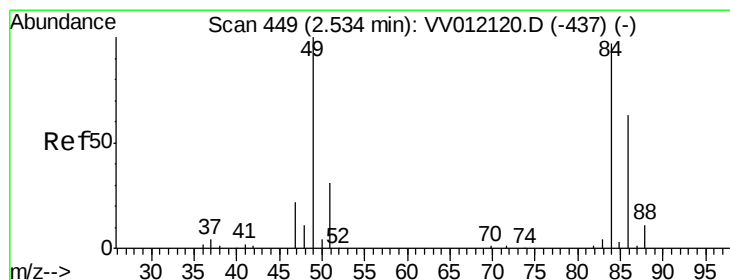
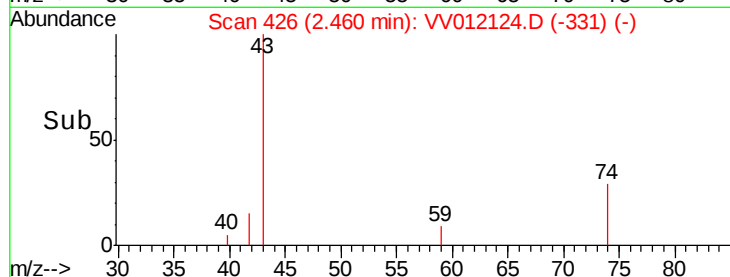
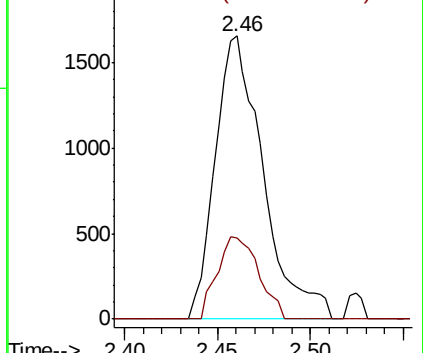
43 100

74 25.0 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 2.924 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

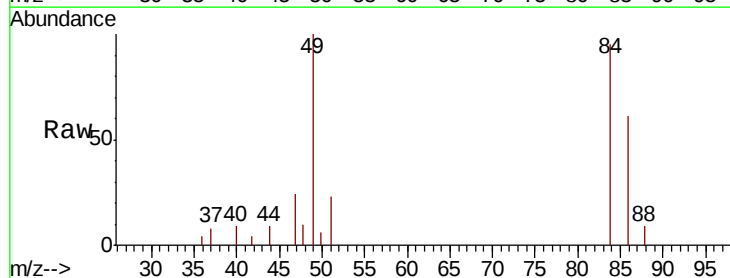
Tgt Ion: 84 Resp: 3694

Ion Ratio Lower Upper

84 100

86 64.3 45.7 84.9

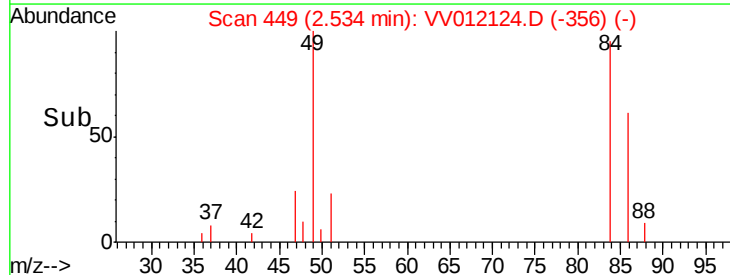
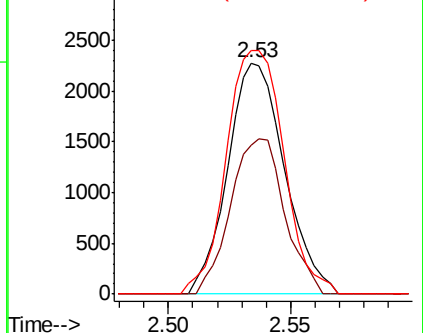
49 105.3 76.6 142.2

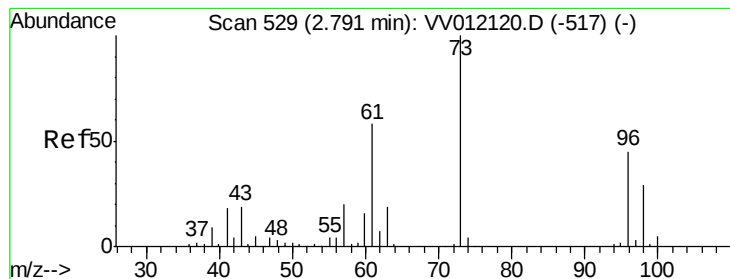


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 2.811 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

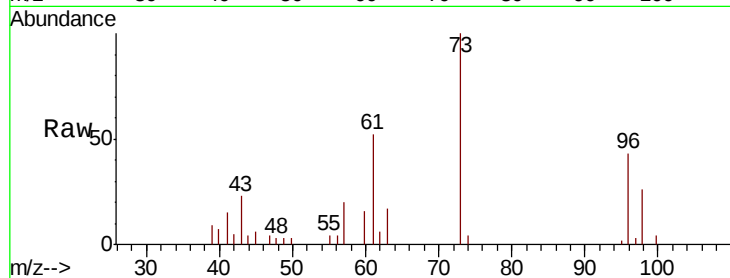
Tgt Ion: 96 Resp: 3304

Ion Ratio Lower Upper

96 100

61 122.0 90.6 168.3

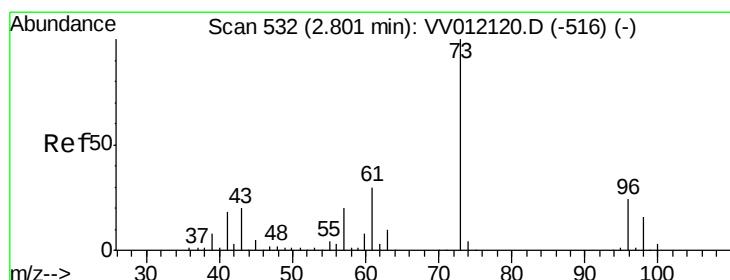
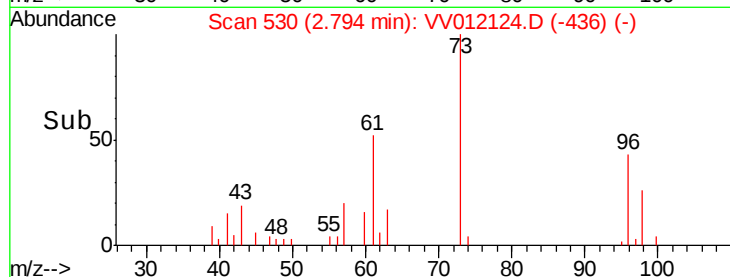
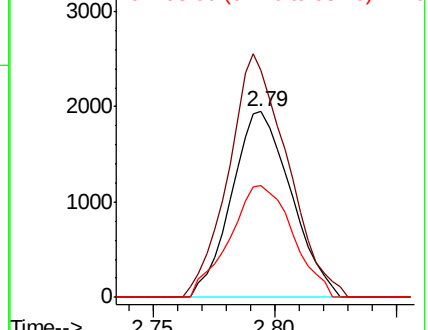
98 60.2 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VV012120.D (-517) (-)

Ion 61.00 (60.70 to 61.70): VV012120.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV012120.D (-517) (-)



#18

Methyl tert-butyl Ether

Concen: 2.916 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

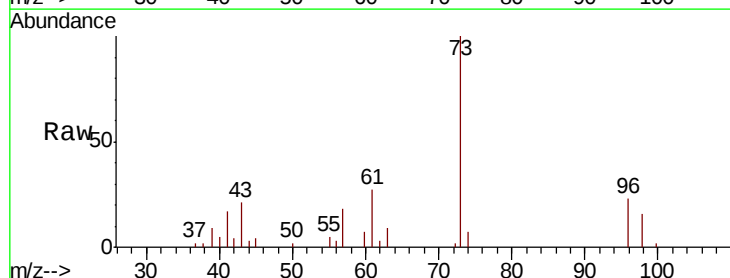
Tgt Ion: 73 Resp: 11780

Ion Ratio Lower Upper

73 100

43 12.1 15.6 23.4#

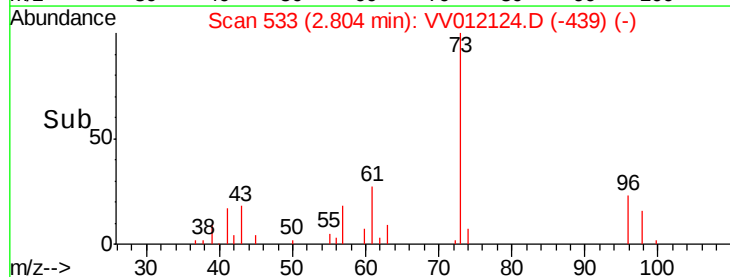
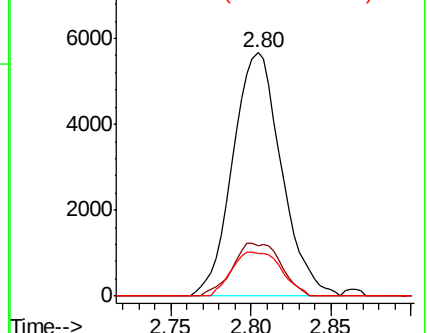
57 18.4 16.0 24.0

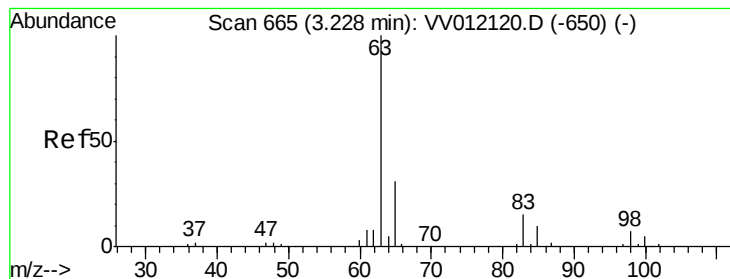


Abundance Ion 73.00 (72.70 to 73.70): VV012120.D (-516) (-)

Ion 43.00 (42.70 to 43.70): VV012120.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VV012120.D (-516) (-)





#19

1,1-Dichloroethane

Concen: 1.379 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampled :

MDL04

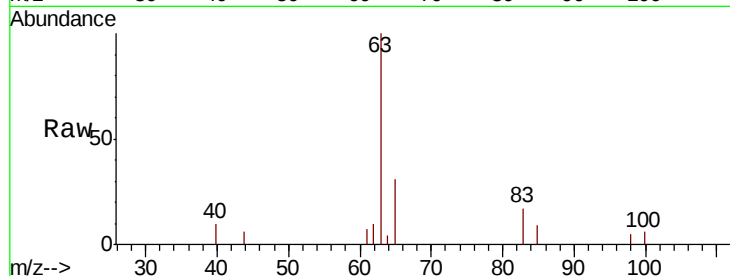
Tgt Ion: 63 Resp: 2956

Ion Ratio Lower Upper

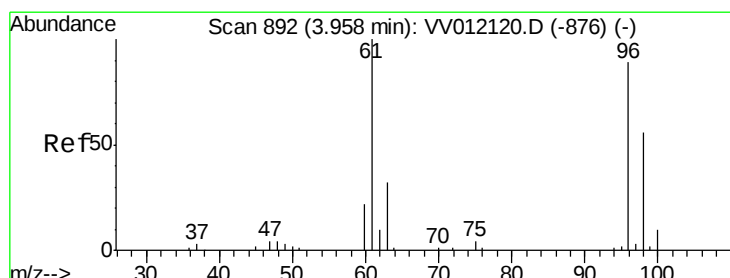
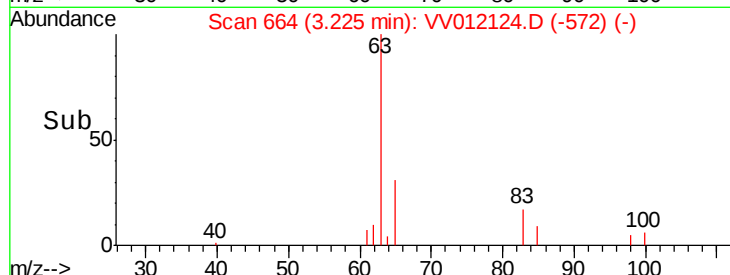
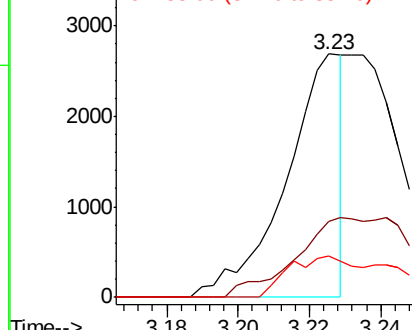
63 100

65 31.0 22.3 41.3

83 16.8 10.3 19.1



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: 1.616 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

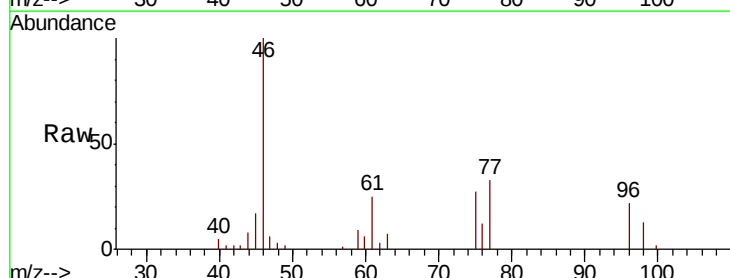
Tgt Ion: 96 Resp: 2238

Ion Ratio Lower Upper

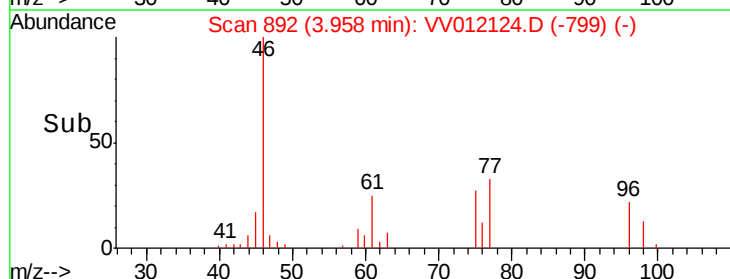
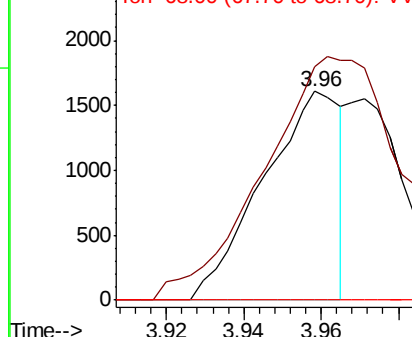
96 100

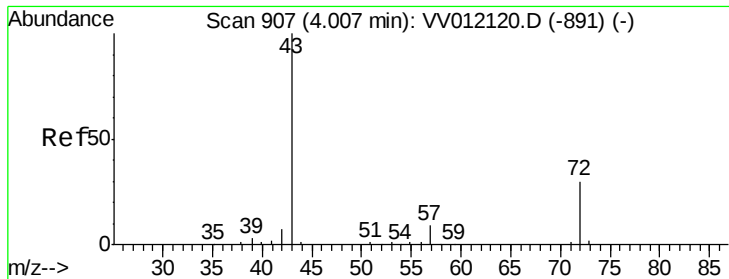
61 112.0 80.0 148.6

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





#22

2-Butanone

Concen: 5.516 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampled :

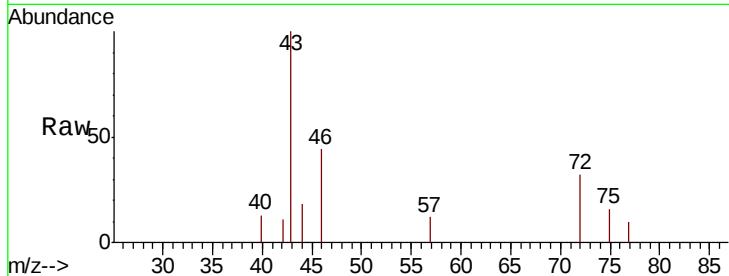
MDL04

Tgt Ion: 43 Resp: 4424

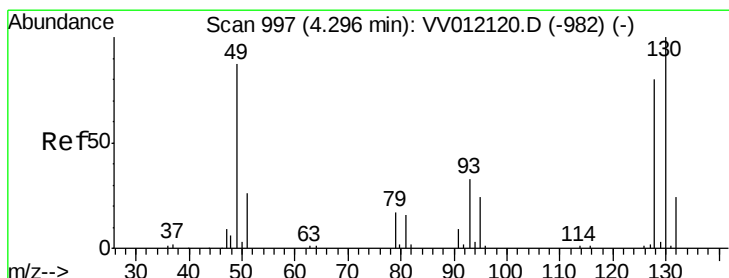
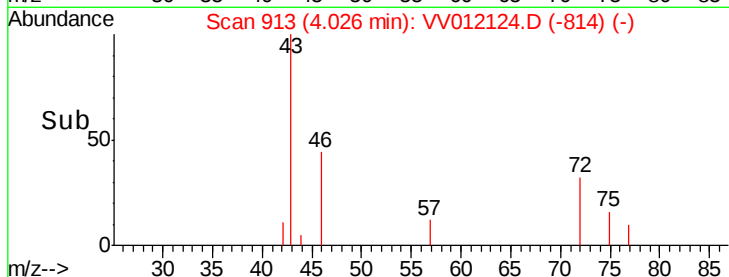
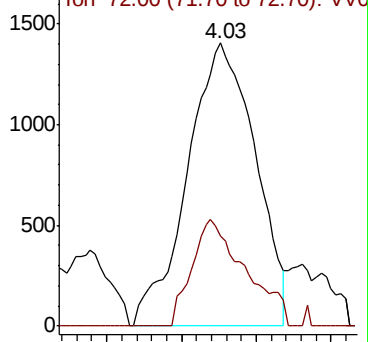
Ion Ratio Lower Upper

43 100

72 27.6 15.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VV012120.D (-891) (-)



#23

Bromochloromethane

Concen: 1.258 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Tgt Ion: 128 Resp: 958

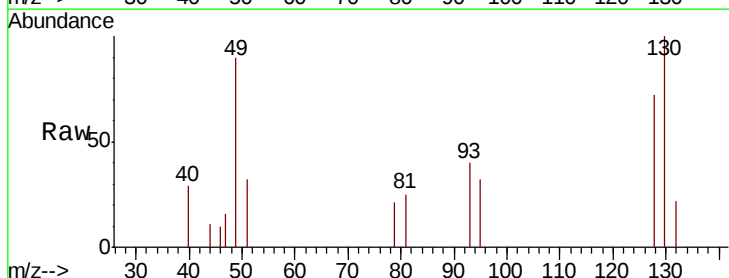
Ion Ratio Lower Upper

128 100

49 124.9 84.6 157.2

130 138.9 89.9 167.0

51 44.2 30.5 45.7

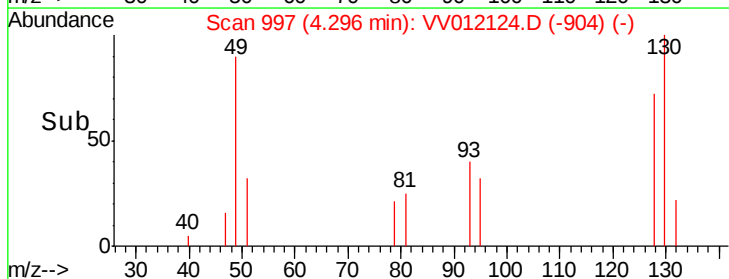
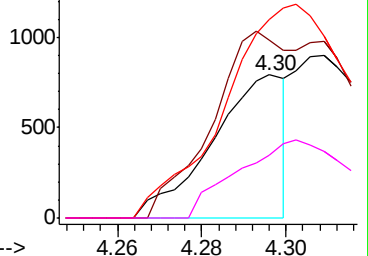


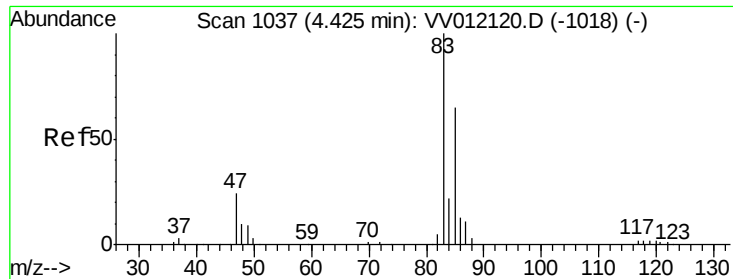
Abundance Ion 128.00 (127.70 to 128.70): VV012120.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VV012120.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VV012120.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VV012120.D (-982) (-)

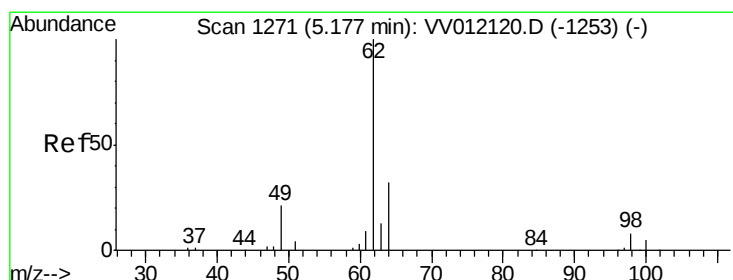
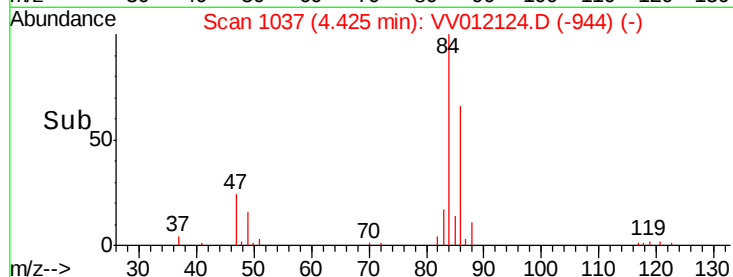
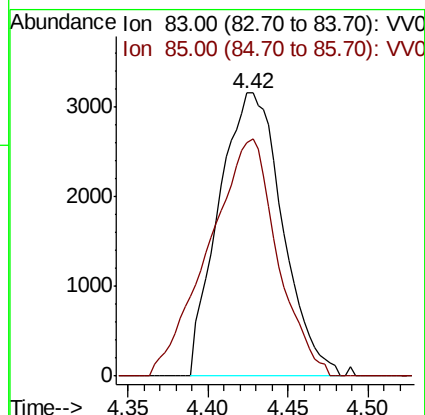
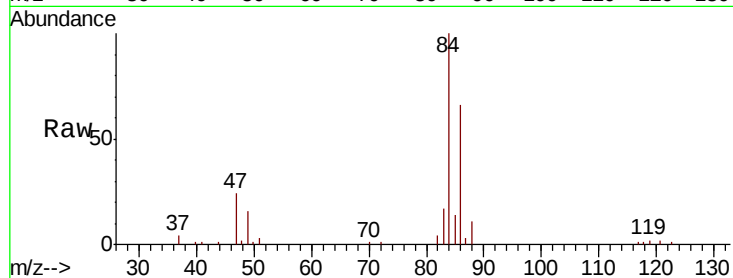




#25  
Chloroform  
Concen: 3.547 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

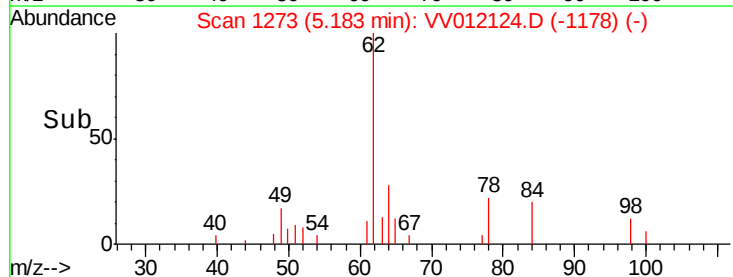
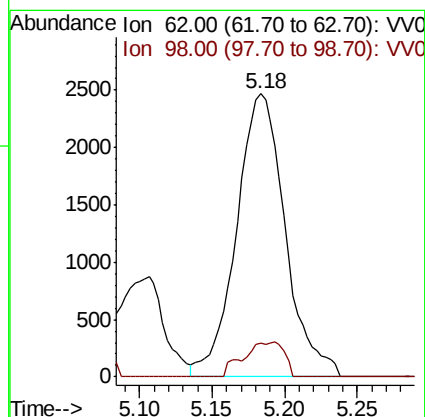
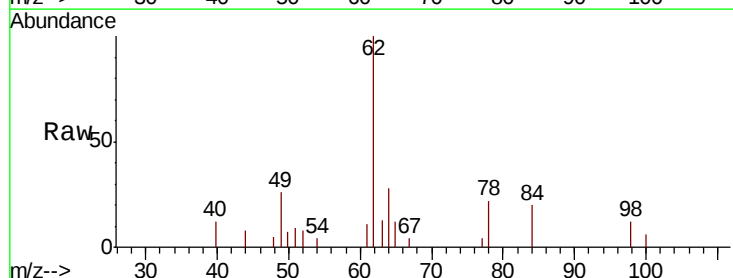
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL04

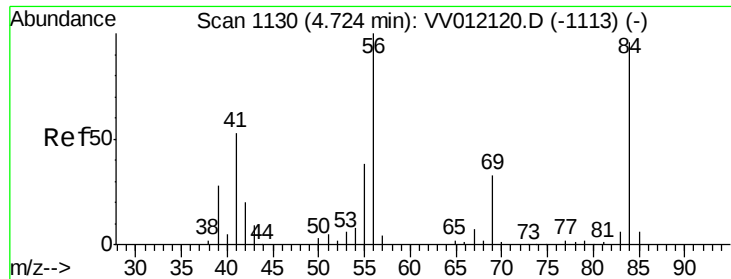
Tgt Ion: 83 Resp: 8619  
Ion Ratio Lower Upper  
83 100  
85 82.7 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 3.056 ug/L  
RT: 5.18 min Scan# 1273  
Delta R.T. 0.01 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion: 62 Resp: 5771  
Ion Ratio Lower Upper  
62 100  
98 12.0 7.5 11.3#

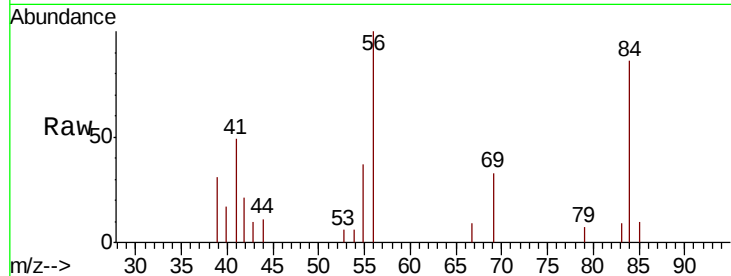




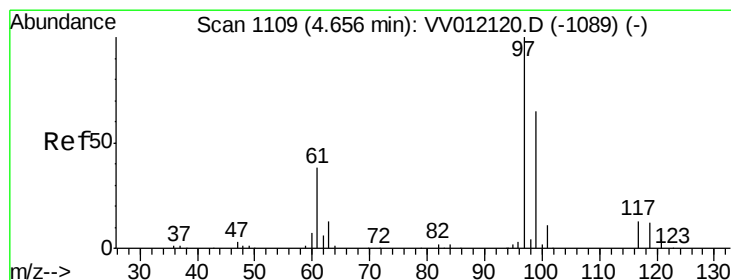
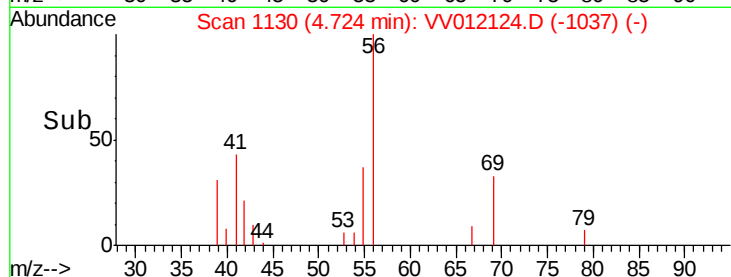
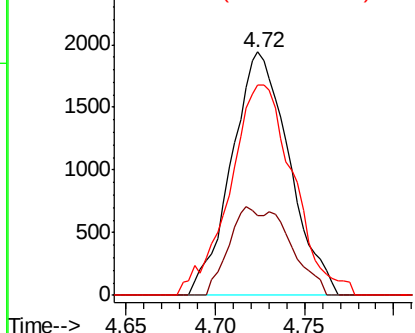
#29  
Cyclohexane  
Concen: 2.431 ug/L  
RT: 4.72 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

Tgt Ion: 56 Resp: 4368  
Ion Ratio Lower Upper  
56 100  
69 18.6 25.8 38.8#  
84 94.6 76.0 114.0

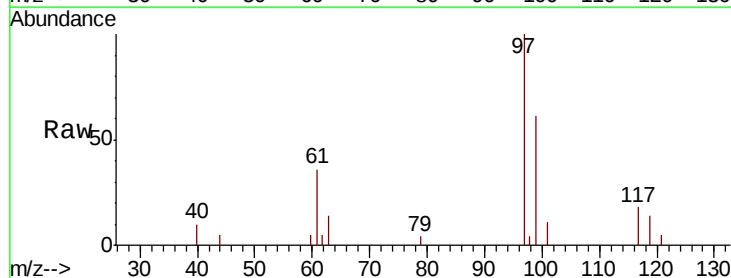


Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0

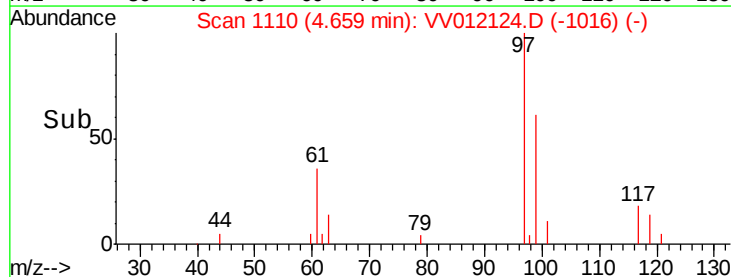
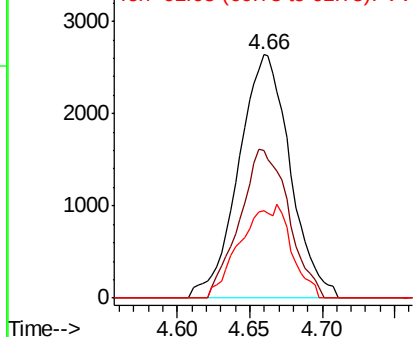


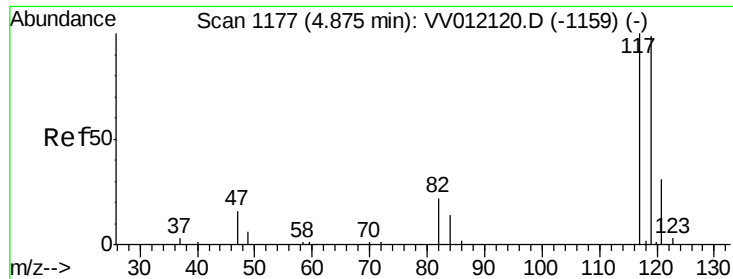
#30  
1,1,1-Trichloroethane  
Concen: 2.857 ug/L  
RT: 4.66 min Scan# 1110  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion: 97 Resp: 6522  
Ion Ratio Lower Upper  
97 100  
99 57.9 51.1 76.7  
61 24.8 31.3 46.9#



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





#31

Carbon tetrachloride

Concen: 2.631 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampled :

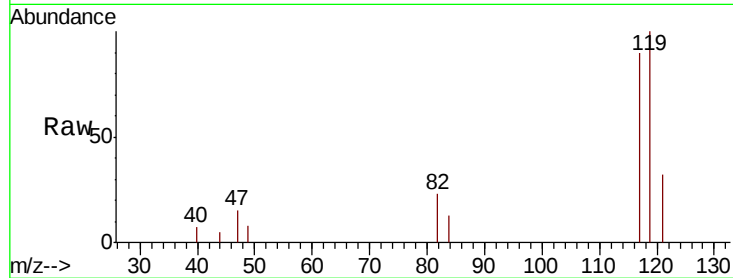
MDL04

Tgt Ion:117 Resp: 5571

Ion Ratio Lower Upper

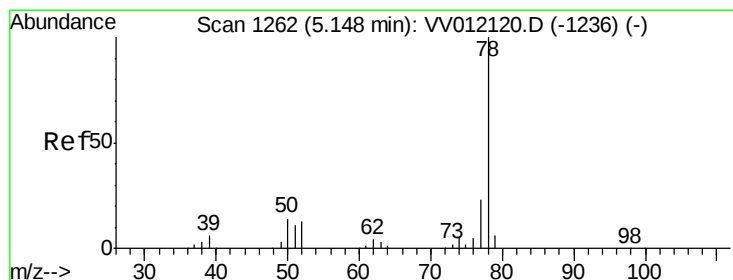
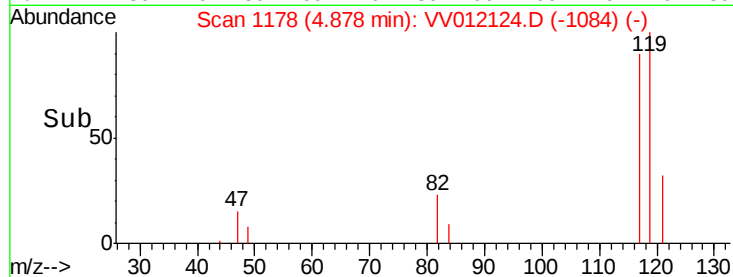
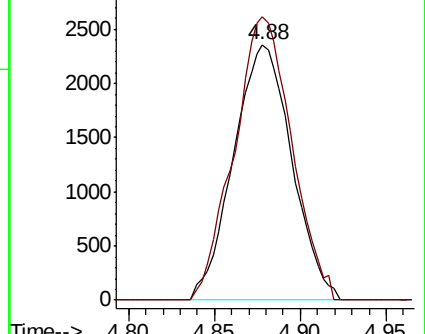
117 100

119 109.4 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.504 ug/L

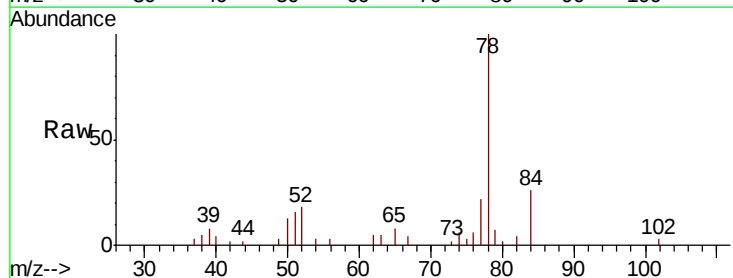
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

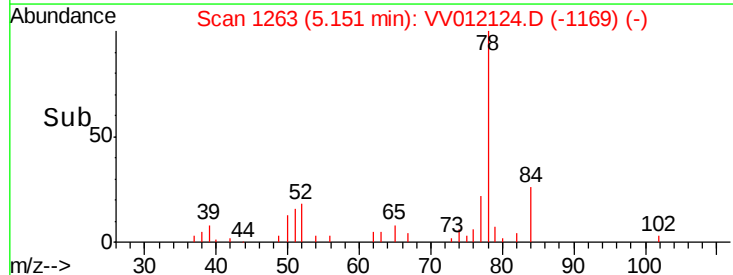
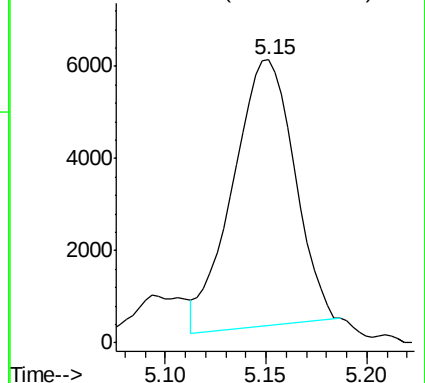
Lab File: VV012124.D

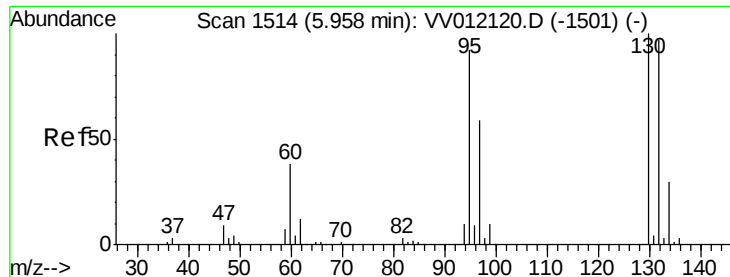
Acq: 07 Aug 2019 13:44

Tgt Ion: 78 Resp: 12387



Abundance Ion 78.00 (77.70 to 78.70): VV0

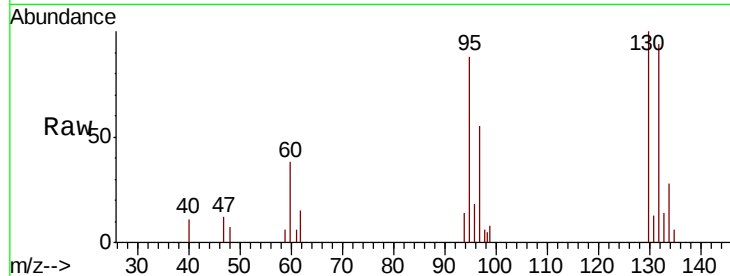




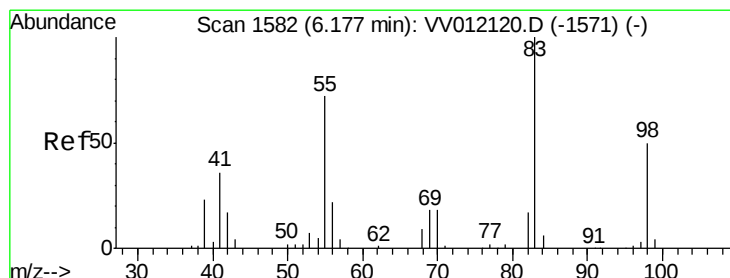
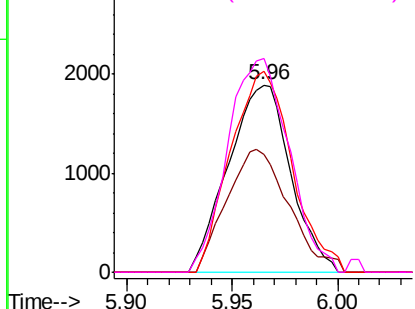
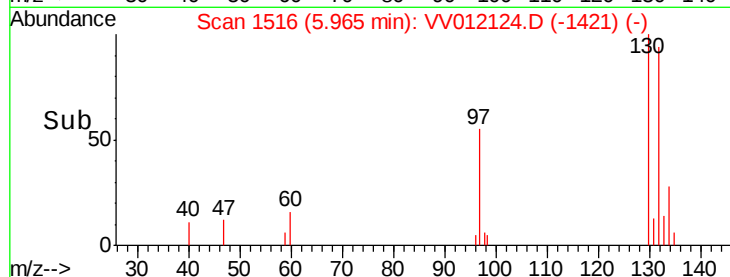
#34  
 Trichloroethene  
 Concen: 2.820 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.01 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion: 95 Resp: 3877  
 Ion Ratio Lower Upper  
 95 100  
 97 63.0 43.4 80.6  
 132 123.8 73.1 135.8  
 130 114.2 75.3 139.8

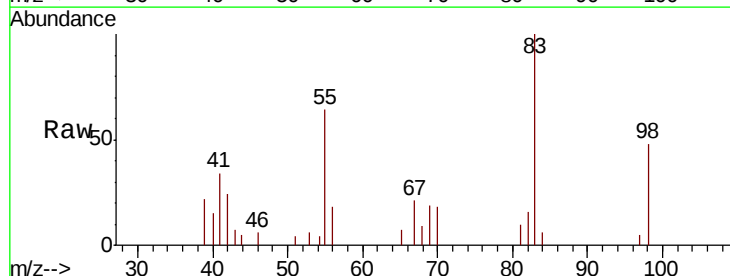


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

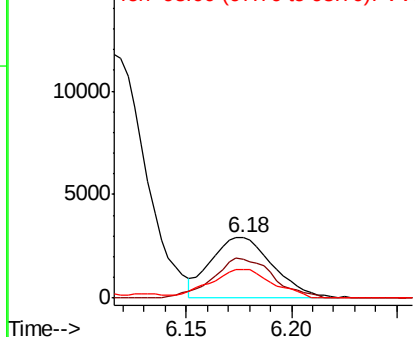
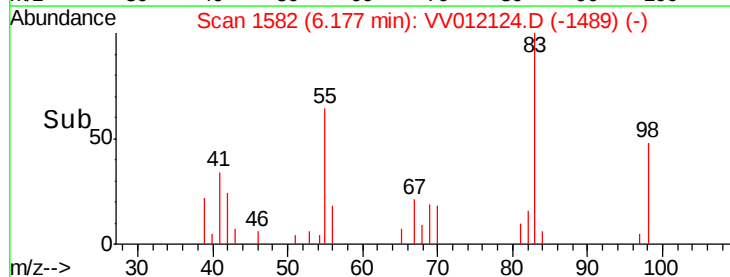


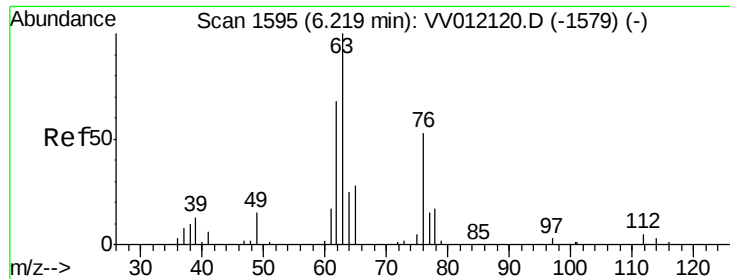
#35  
 Methylcyclohexane  
 Concen: 2.932 ug/L  
 RT: 6.18 min Scan# 1582  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion: 83 Resp: 6000  
 Ion Ratio Lower Upper  
 83 100  
 55 63.5 55.5 83.3  
 98 46.9 38.5 57.7



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

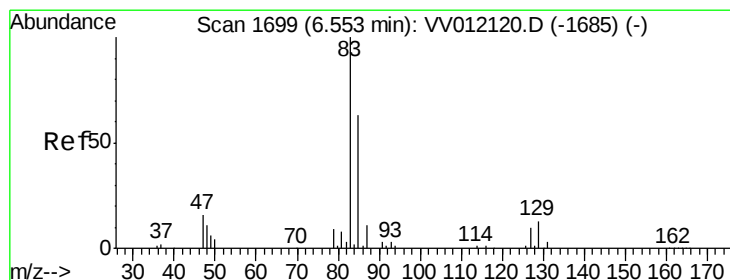
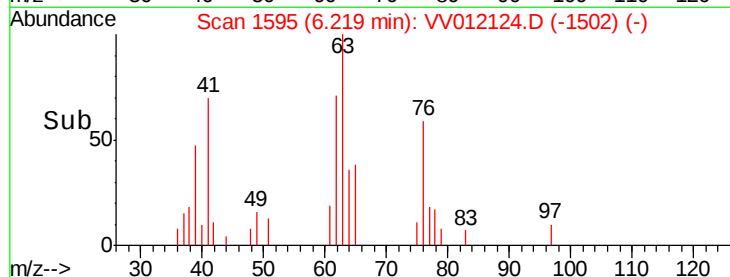
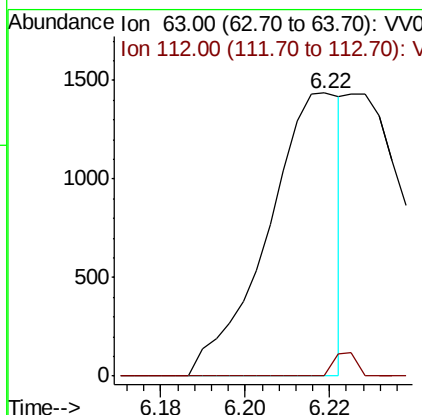
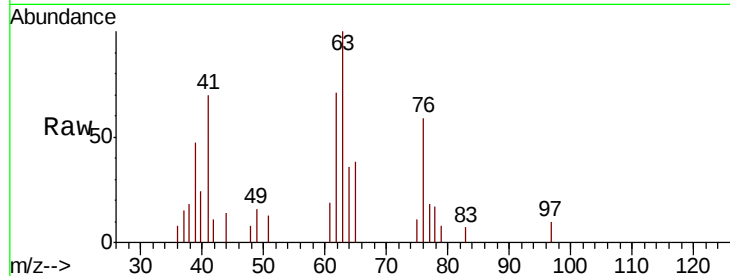




#37  
 1,2-Dichloropropane  
 Concen: 1.424 ug/L  
 RT: 6.22 min Scan# 1595  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

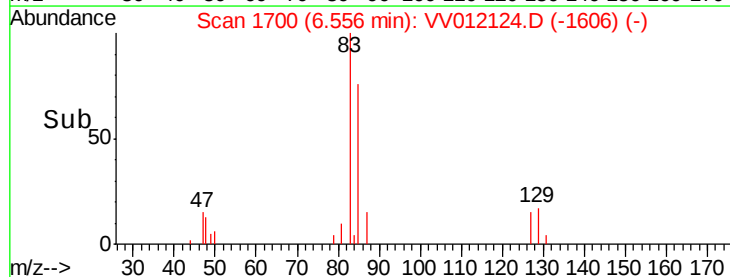
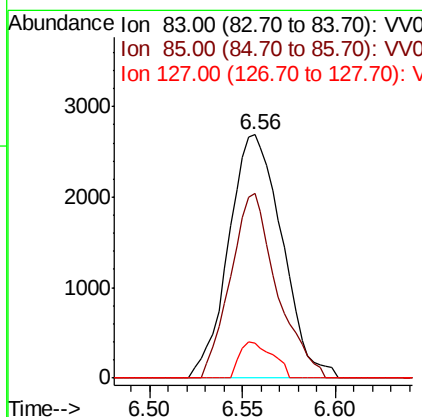
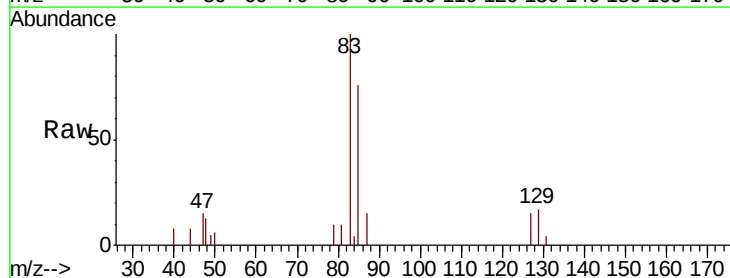
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

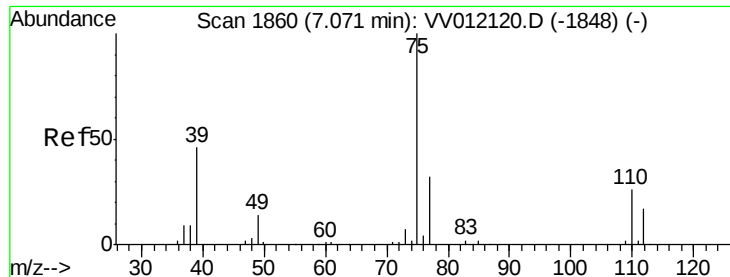
Tgt Ion: 63 Resp: 1718  
 Ion Ratio Lower Upper  
 63 100  
 112 2.6 4.2 6.2#



#38  
 Bromodichloromethane  
 Concen: 2.840 ug/L  
 RT: 6.56 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion: 83 Resp: 5390  
 Ion Ratio Lower Upper  
 83 100  
 85 76.0 45.0 83.6  
 127 14.5 7.9 11.9#

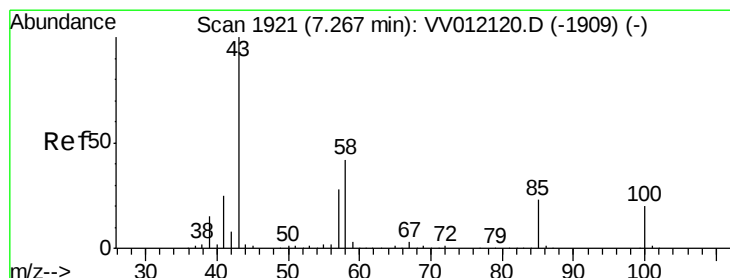
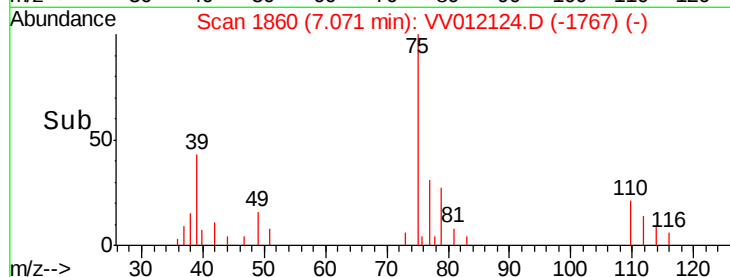
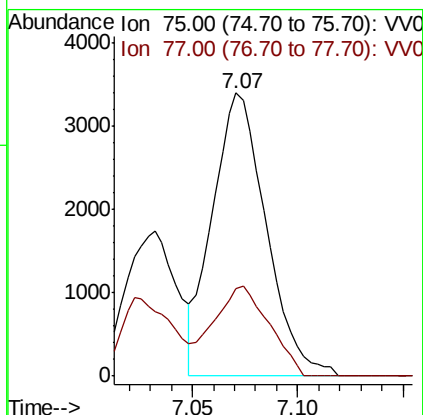
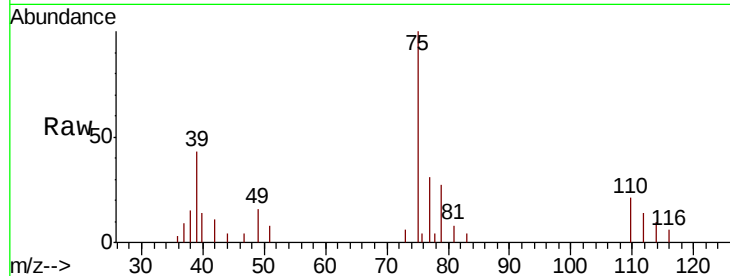




#39  
 cis-1,3-Dichloropropene  
 Concen: 2.826 ug/L  
 RT: 7.07 min Scan# 1860  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

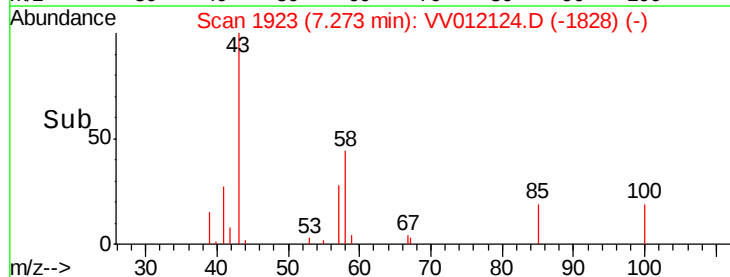
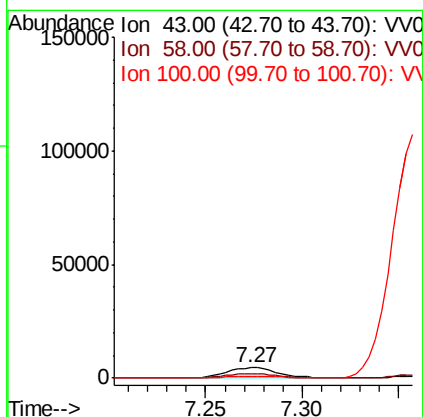
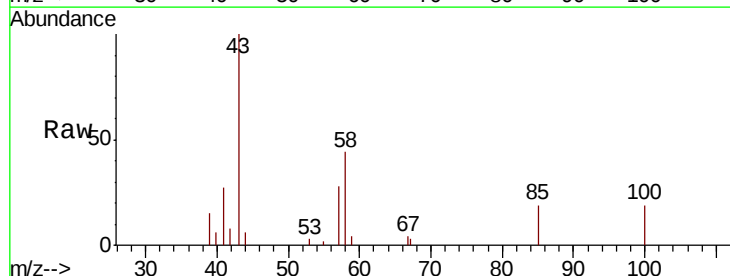
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

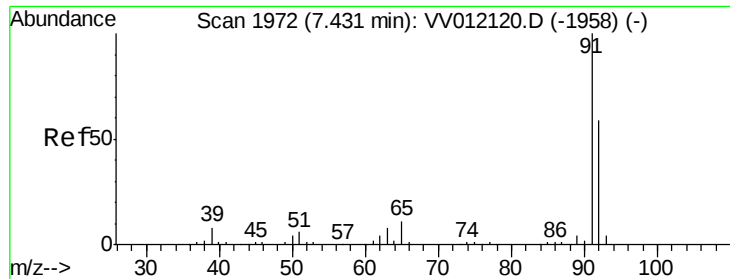
Tgt Ion: 75 Resp: 6012  
 Ion Ratio Lower Upper  
 75 100  
 77 30.7 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 5.659 ug/L  
 RT: 7.27 min Scan# 1923  
 Delta R.T. 0.01 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion: 43 Resp: 8789  
 Ion Ratio Lower Upper  
 43 100  
 58 42.8 33.4 50.2  
 100 18.6 15.0 22.4





#42

Toluene

Concen: 2.958 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

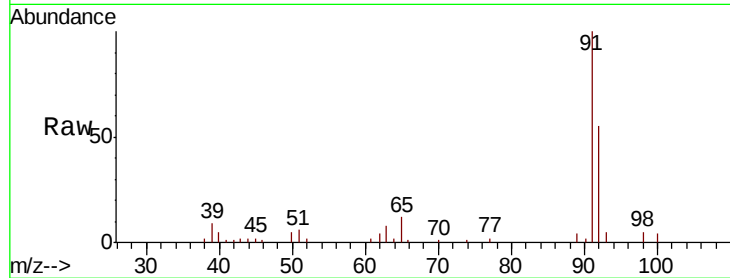
MDL04

Tgt Ion: 91 Resp: 16258

Ion Ratio Lower Upper

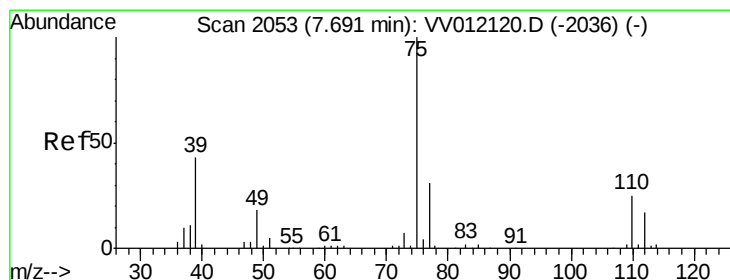
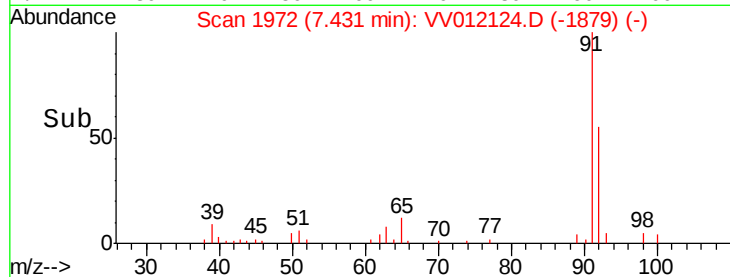
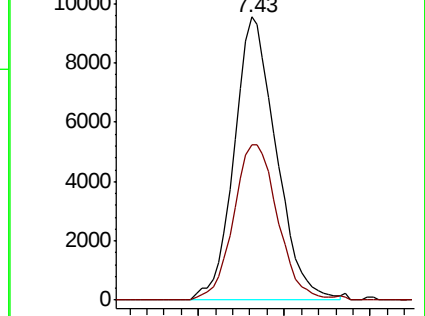
91 100

92 55.0 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.642 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012124.D

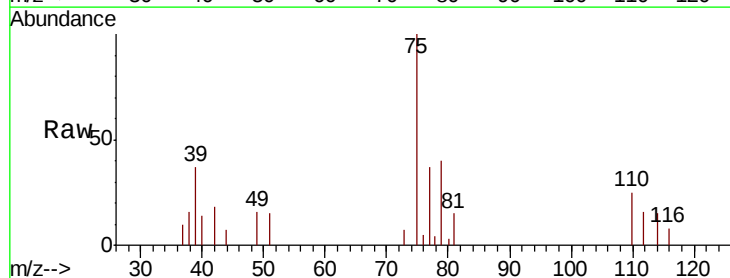
Acq: 07 Aug 2019 13:44

Tgt Ion: 75 Resp: 5306

Ion Ratio Lower Upper

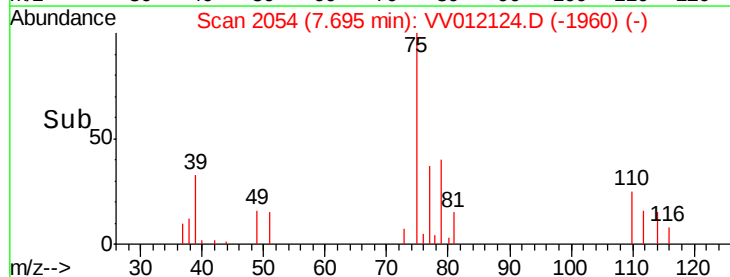
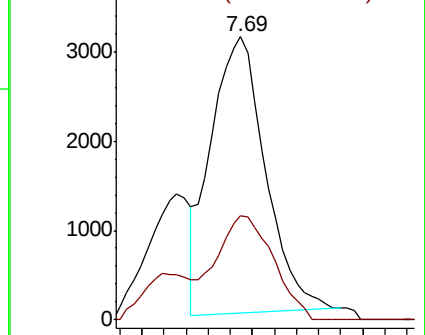
75 100

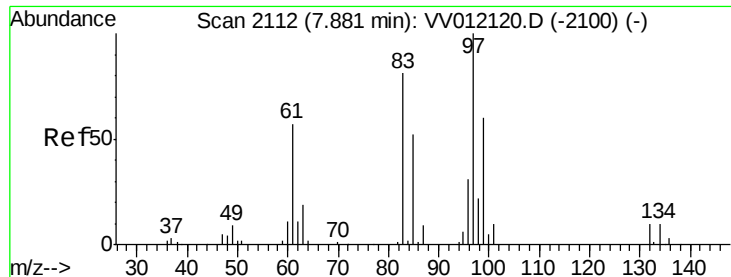
77 37.0 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

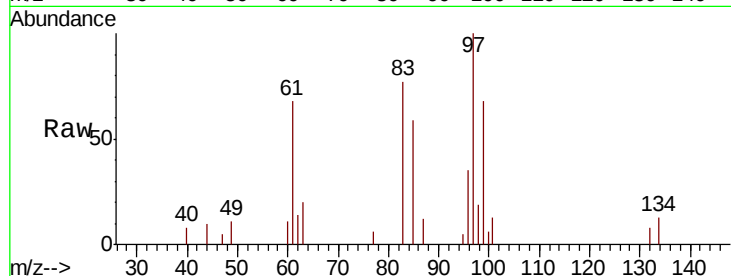




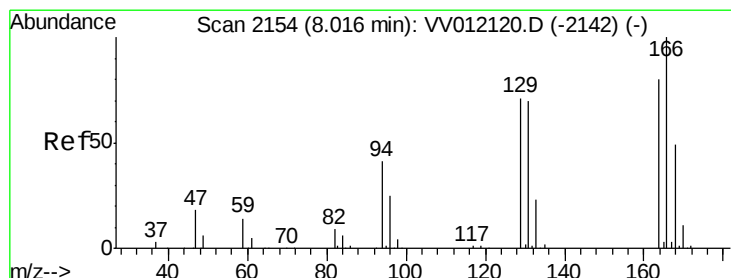
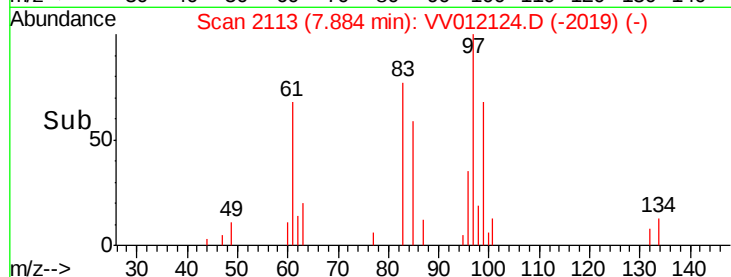
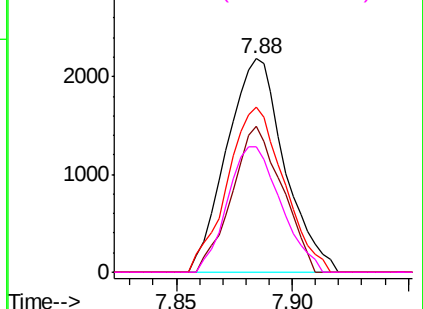
#45  
 1,1,2-Trichloroethane  
 Concen: 2.916 ug/L  
 RT: 7.88 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion: 97 Resp: 3793  
 Ion Ratio Lower Upper  
 97 100  
 99 68.2 47.2 87.6  
 83 77.5 58.0 107.6  
 85 58.9 38.0 70.6

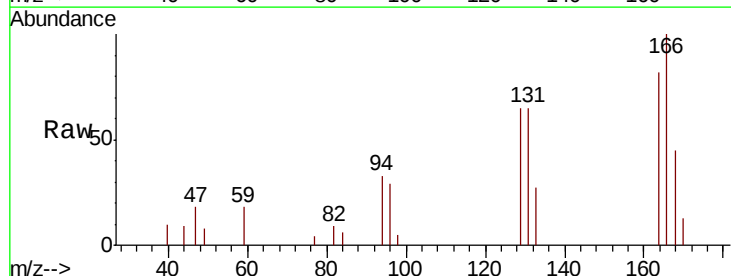


Abundance Ion 97.00 (96.70 to 97.70): VV0  
 Ion 99.00 (98.70 to 99.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

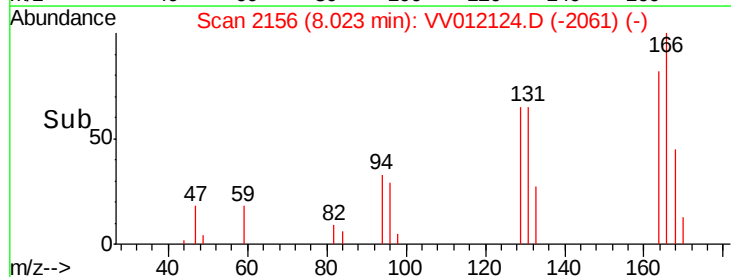
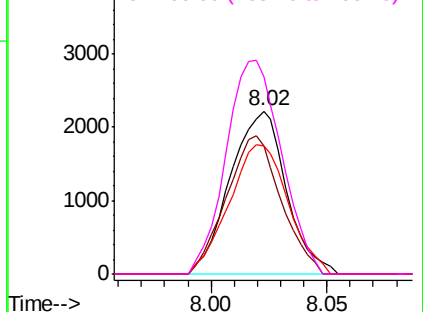


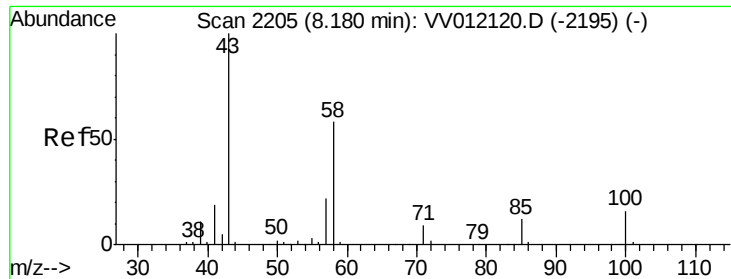
#46  
 Tetrachloroethene  
 Concen: 2.919 ug/L  
 RT: 8.02 min Scan# 2156  
 Delta R.T. 0.01 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion: 164 Resp: 3740  
 Ion Ratio Lower Upper  
 164 100  
 129 78.6 64.3 119.5  
 131 78.5 60.1 111.7  
 166 121.3 91.8 170.6



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

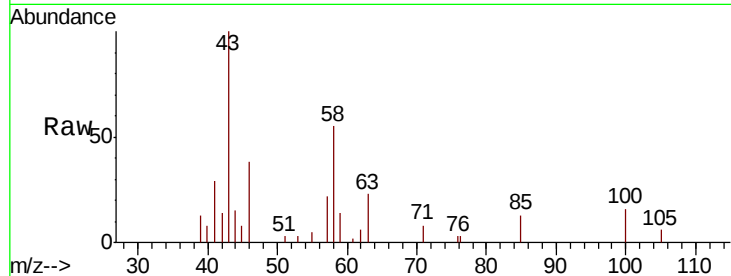




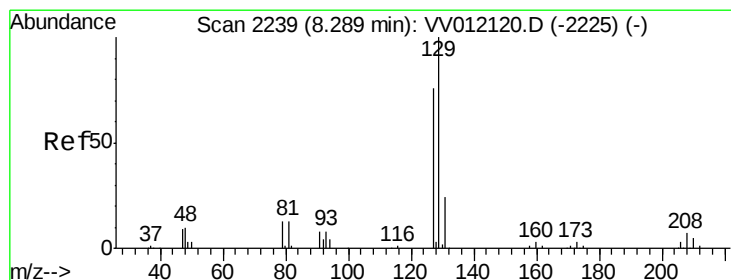
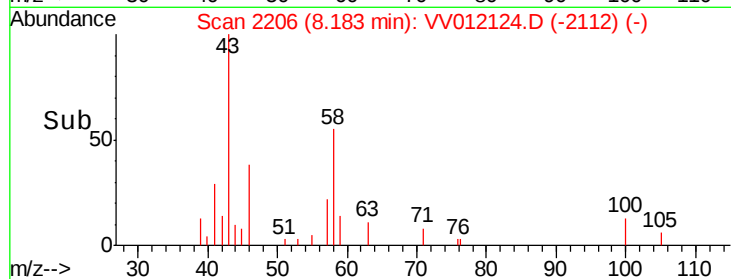
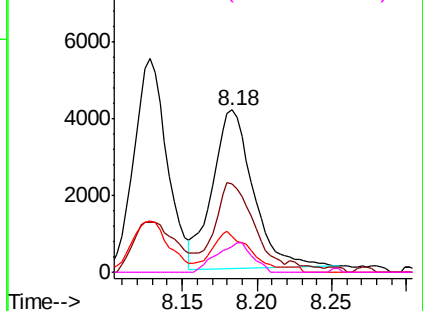
#48  
2-Hexanone  
Concen: 6.724 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL04

Tgt Ion: 43 Resp: 7873  
Ion Ratio Lower Upper  
43 100  
58 48.2 45.6 68.4  
57 19.7 17.0 25.6  
100 16.2 11.5 17.3

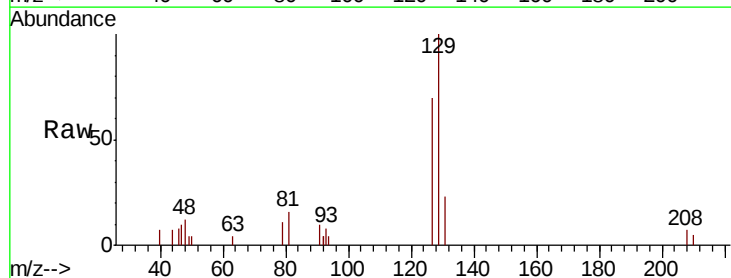


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

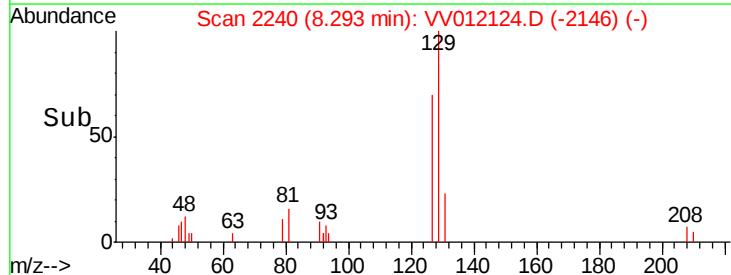
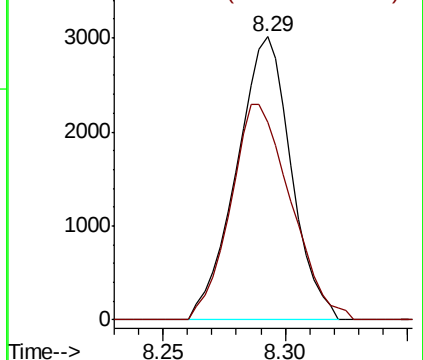


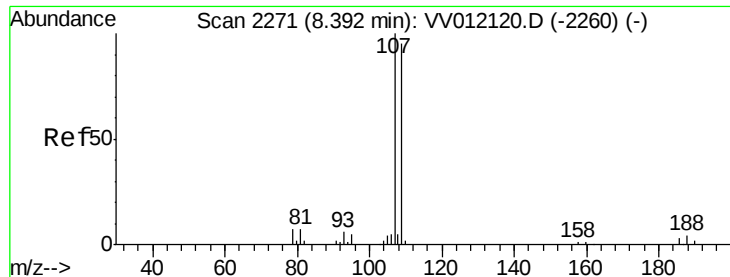
#49  
Dibromochloromethane  
Concen: 2.764 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion: 129 Resp: 4665  
Ion Ratio Lower Upper  
129 100  
127 69.8 53.8 100.0



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

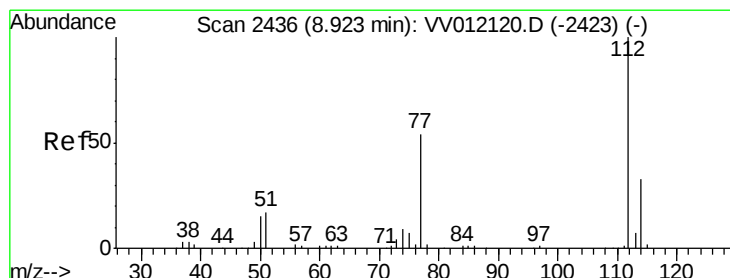
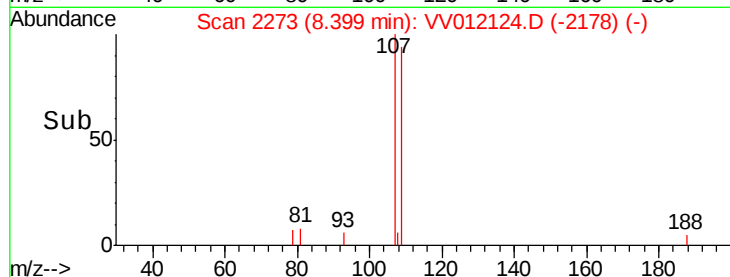
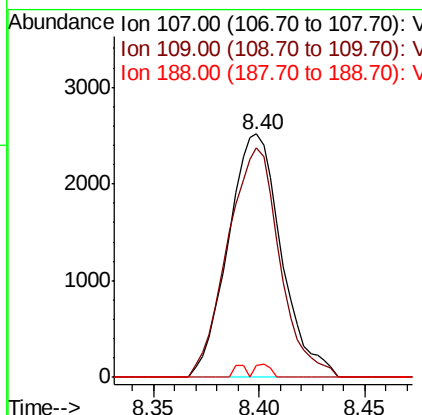
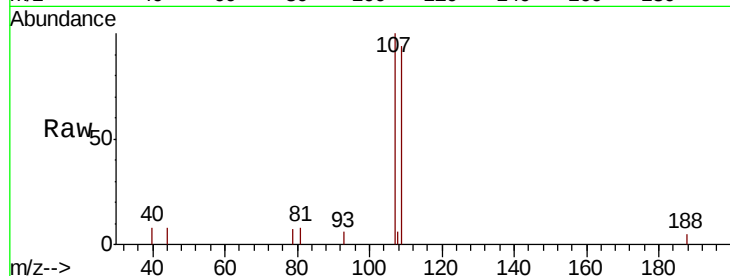




#50  
1,2-Dibromoethane  
Concen: 3.064 ug/L  
RT: 8.40 min Scan# 2273  
Delta R.T. 0.01 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

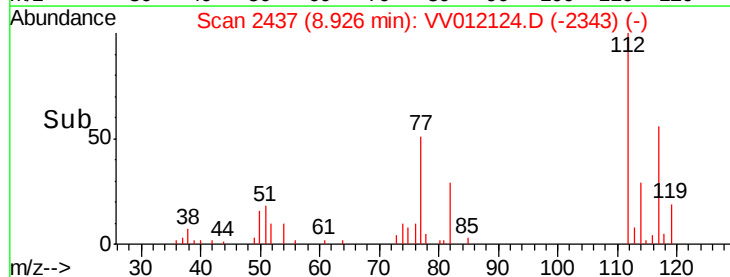
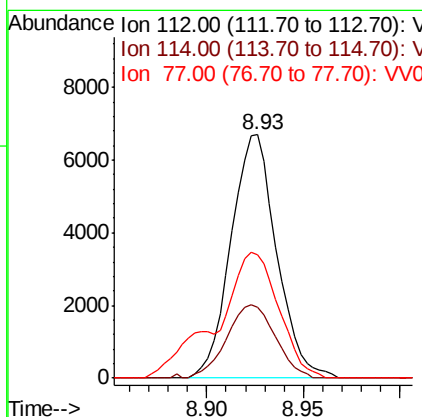
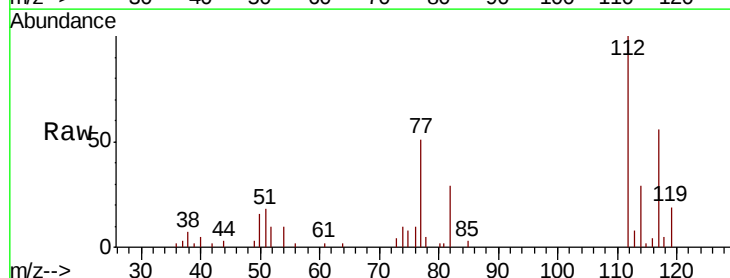
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

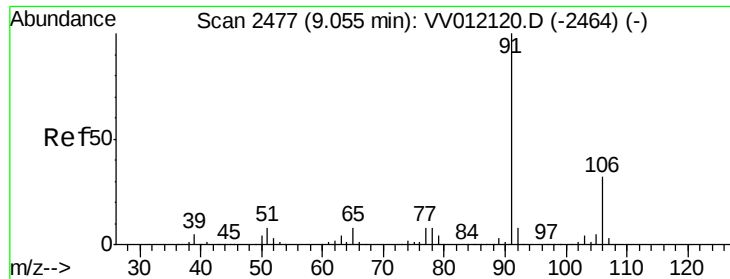
Tgt Ion:107 Resp: 4407  
Ion Ratio Lower Upper  
107 100  
109 94.5 67.0 124.4  
188 4.7 3.9 5.9



#51  
Chlorobenzene  
Concen: 2.970 ug/L  
RT: 8.93 min Scan# 2437  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion:112 Resp: 11008  
Ion Ratio Lower Upper  
112 100  
114 28.9 22.8 42.4  
77 50.8 44.7 67.1





#52

Ethylbenzene

Concen: 2.909 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

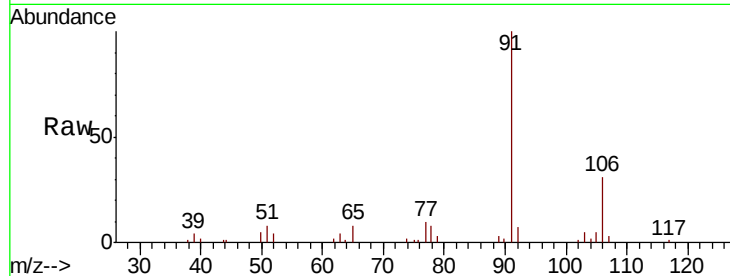
MDL04

Tgt Ion: 91 Resp: 17939

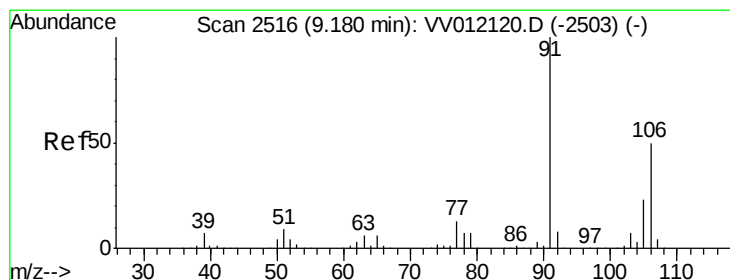
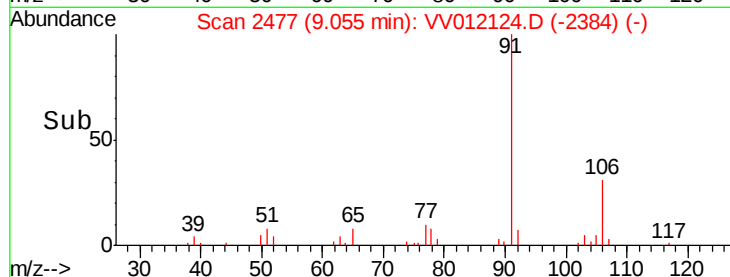
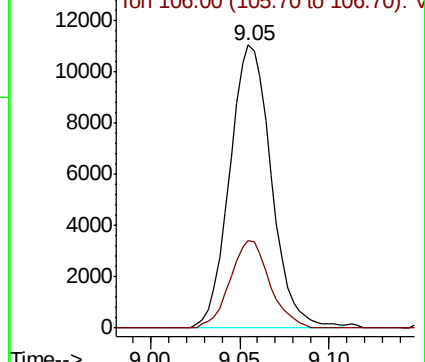
Ion Ratio Lower Upper

91 100

106 31.1 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV012124.D (-2464) (-)



#53

m,p-Xylene

Concen: 2.766 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012124.D

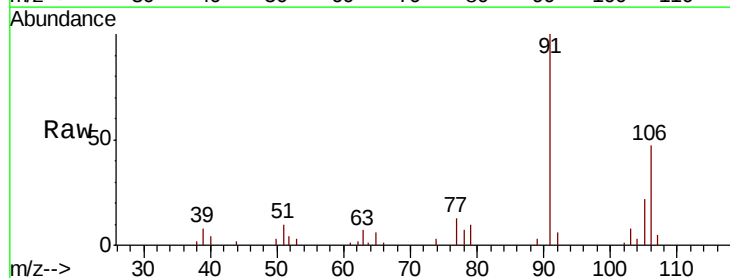
Acq: 07 Aug 2019 13:44

Tgt Ion: 106 Resp: 6580

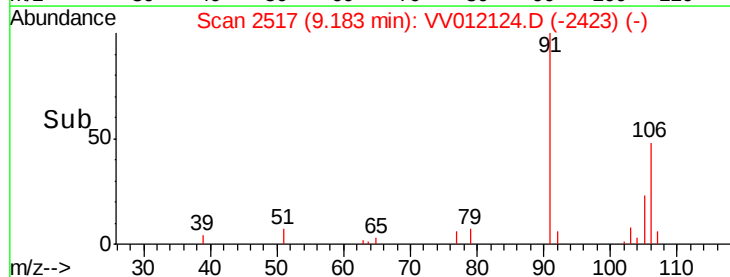
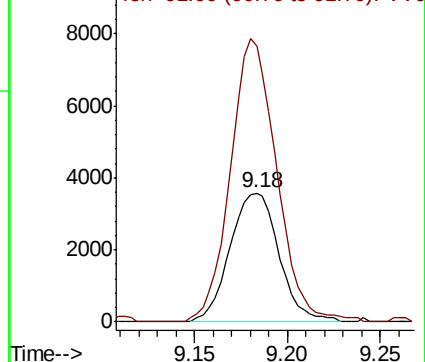
Ion Ratio Lower Upper

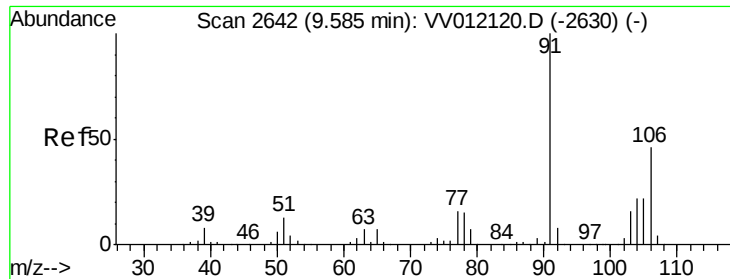
106 100

91 213.7 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012124.D (-2503) (-)

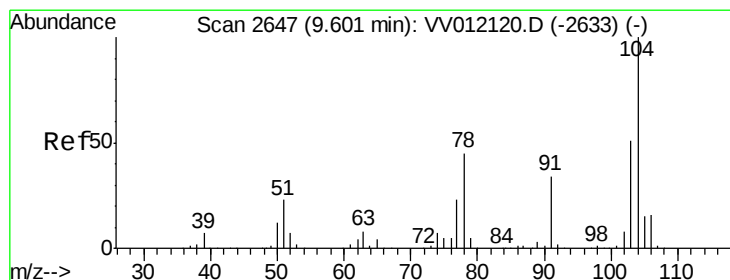
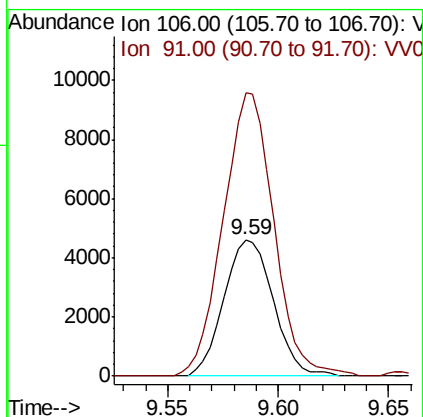
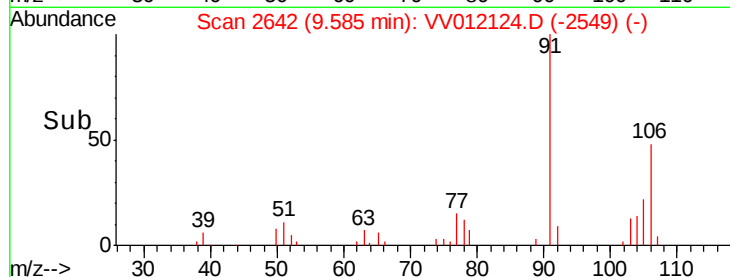
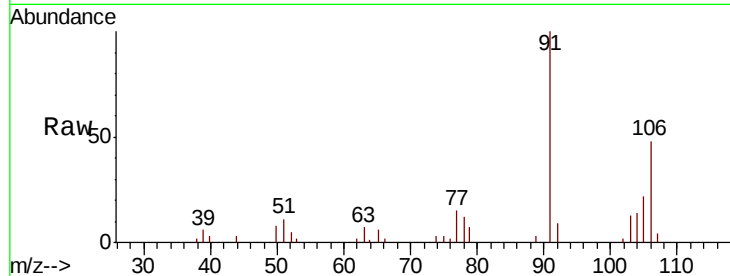




#54  
o-Xylene  
Concen: 3.037 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

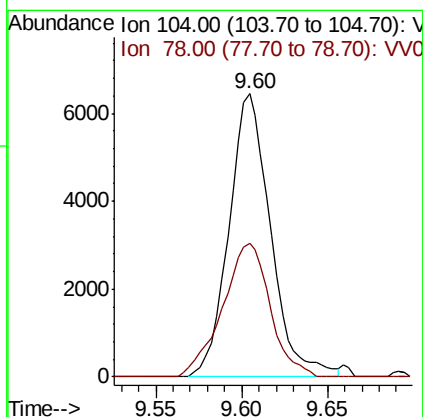
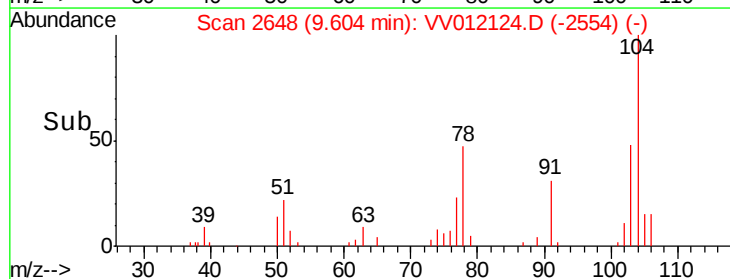
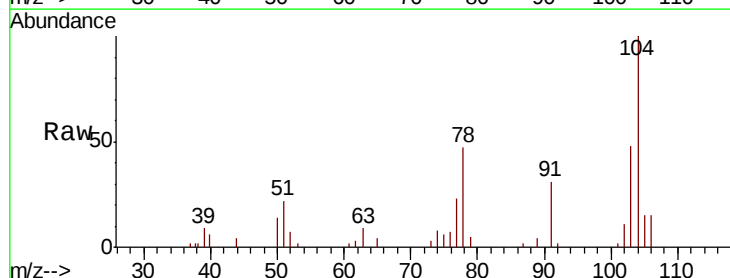
Instrument :  
MSVOA\_V  
ClientSampled :  
MDL04

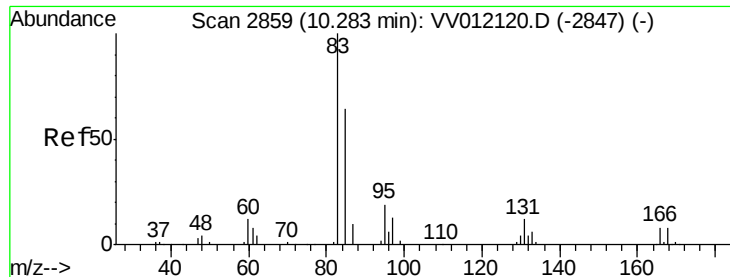
Tgt Ion:106 Resp: 7170  
Ion Ratio Lower Upper  
106 100  
91 207.9 150.4 279.2



#55  
Styrene  
Concen: 2.740 ug/L  
RT: 9.60 min Scan# 2648  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion:104 Resp: 10897  
Ion Ratio Lower Upper  
104 100  
78 47.4 32.0 59.4





#57

1,1,2,2-Tetrachloroethane

Concen: 3.280 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

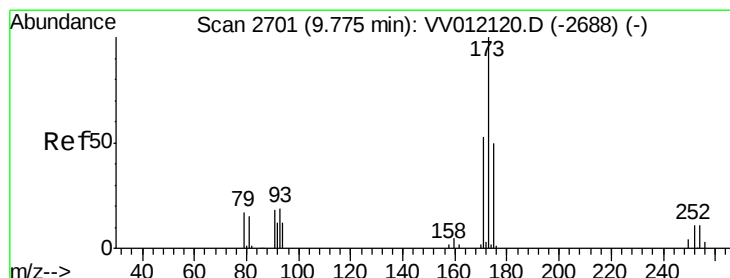
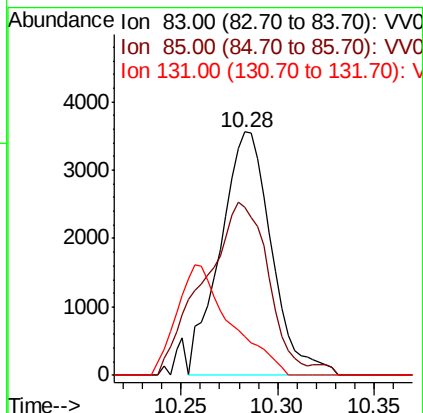
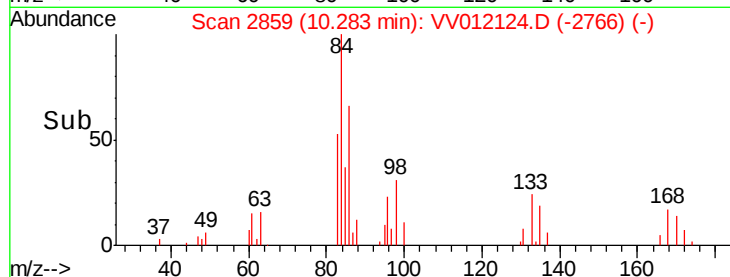
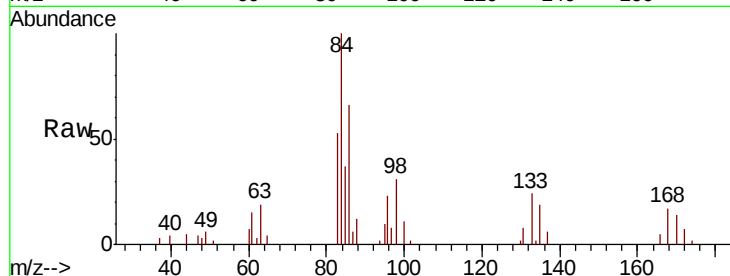
Tgt Ion: 83 Resp: 6560

Ion Ratio Lower Upper

83 100

85 69.1 44.6 82.8

131 15.7 9.3 13.9#



#59

Bromoform

Concen: 2.919 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

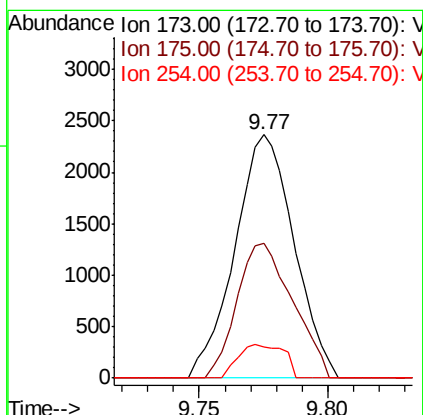
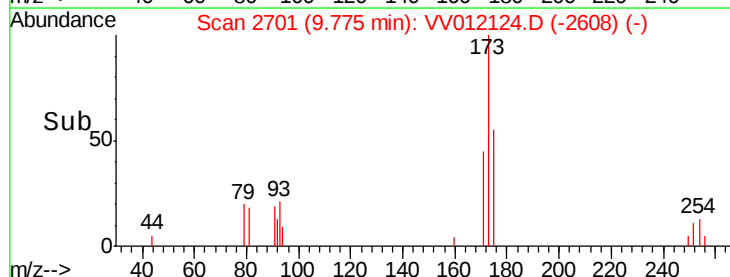
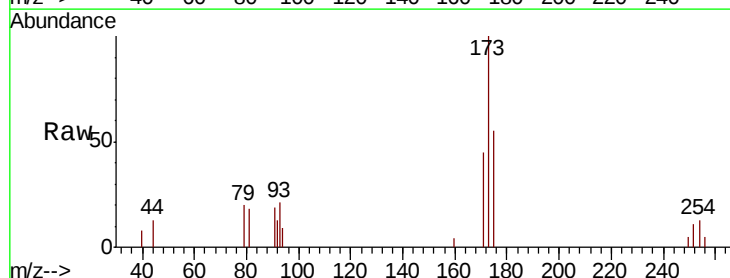
Tgt Ion: 173 Resp: 3794

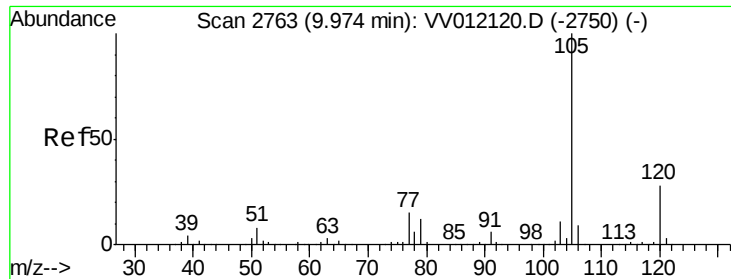
Ion Ratio Lower Upper

173 100

175 52.1 38.3 57.5

254 7.9 8.9 13.3#





#60

Isopropylbenzene

Concen: 2.886 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampled :

MDL04

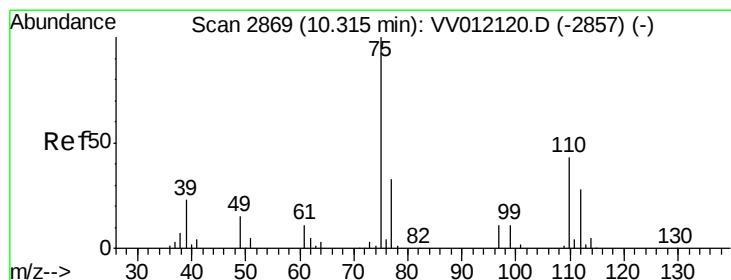
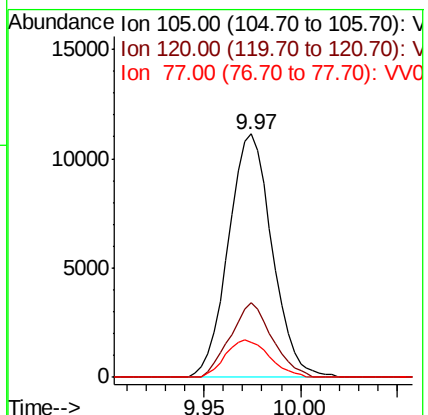
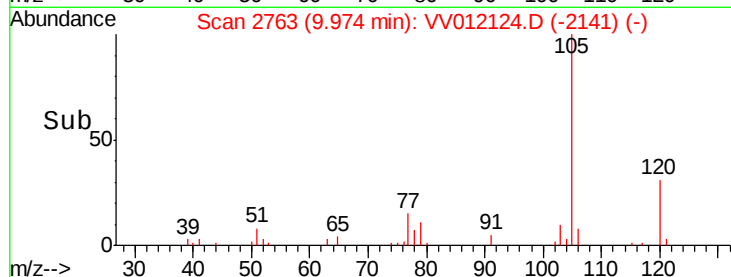
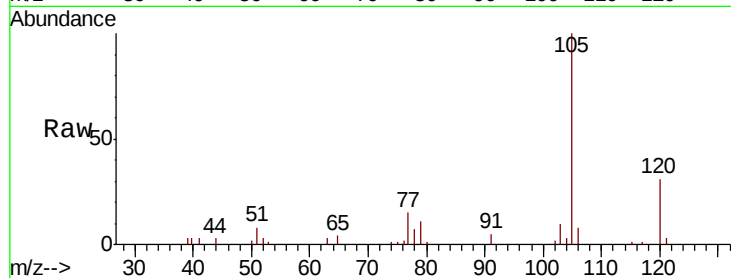
Tgt Ion: 105 Resp: 17505

Ion Ratio Lower Upper

105 100

120 29.4 21.4 32.0

77 15.4 11.6 17.4



#61

1,2,3-Trichloropropane

Concen: 3.505 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

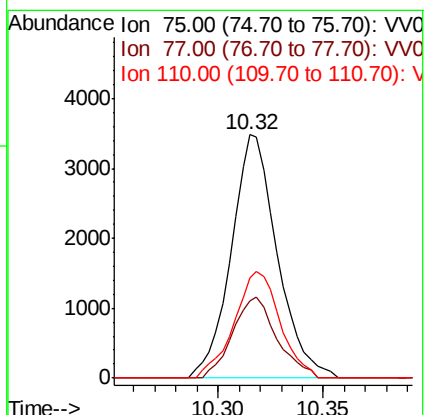
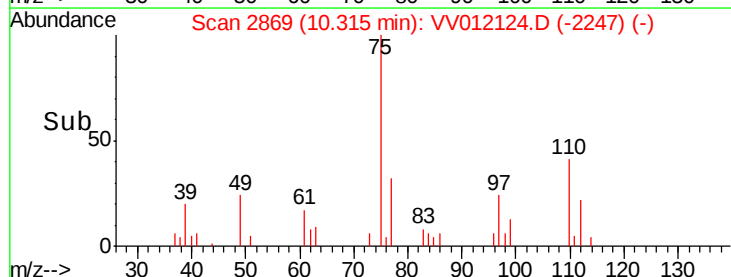
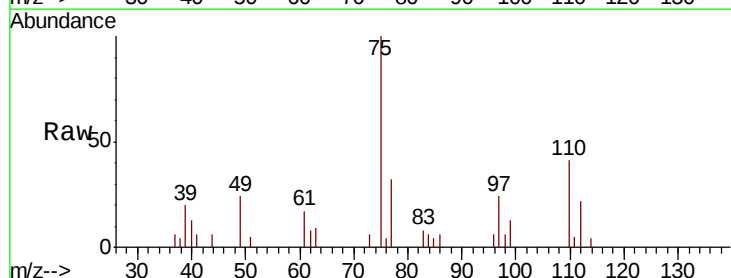
Tgt Ion: 75 Resp: 5273

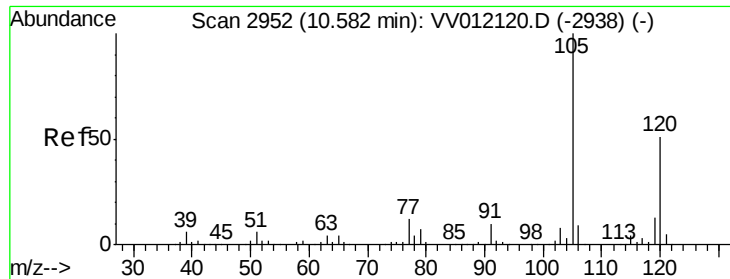
Ion Ratio Lower Upper

75 100

77 32.0 25.7 38.5

110 43.5 34.2 51.4





#62

1,3,5-Trimethylbenzene

Concen: 2.889 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

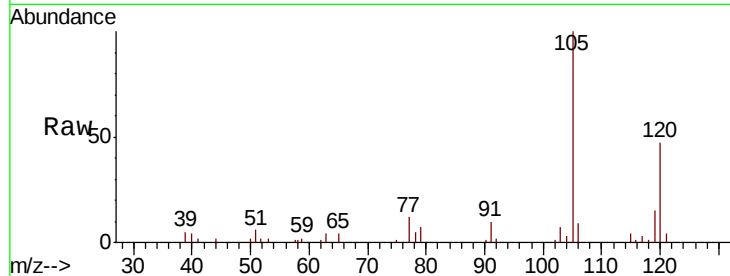
MDL04

Tgt Ion:105 Resp: 15148

Ion Ratio Lower Upper

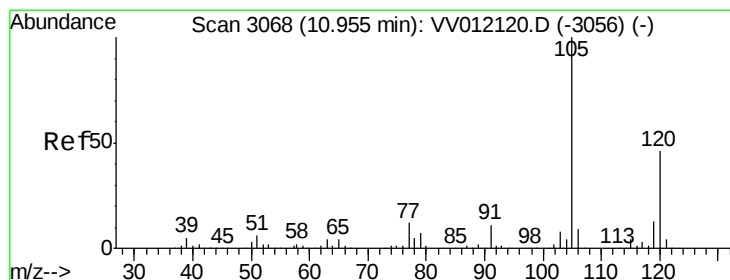
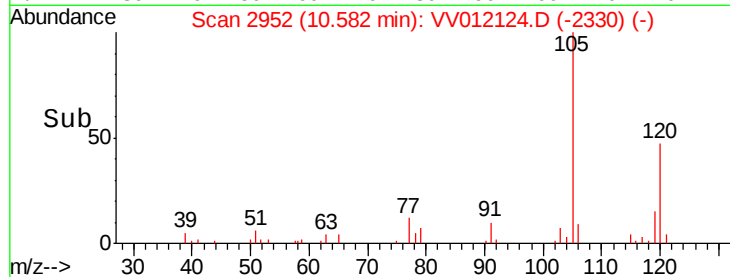
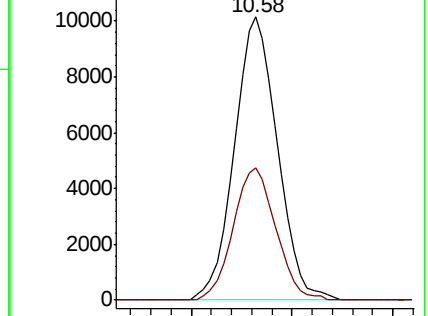
105 100

120 46.3 39.2 58.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.830 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV012124.D

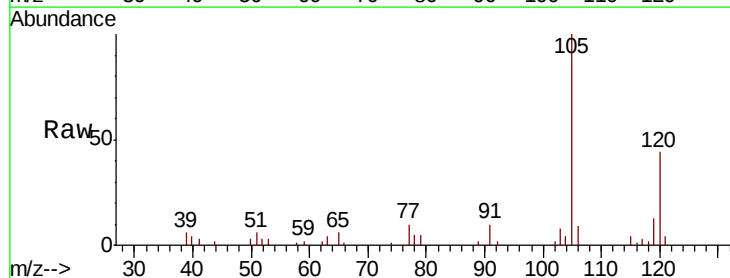
Acq: 07 Aug 2019 13:44

Tgt Ion:105 Resp: 14648

Ion Ratio Lower Upper

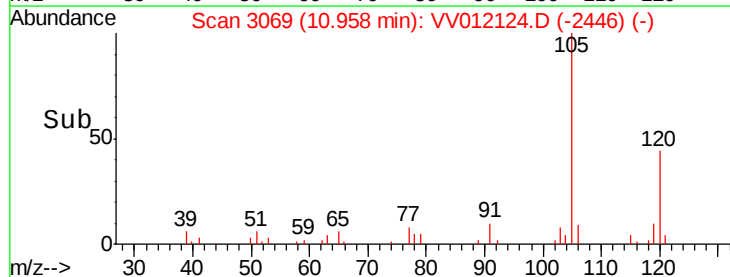
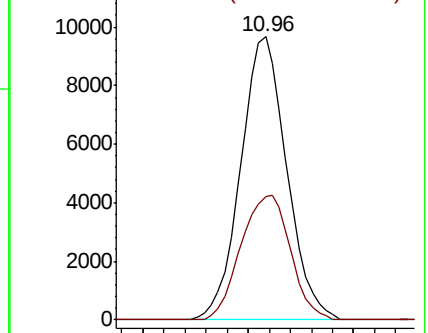
105 100

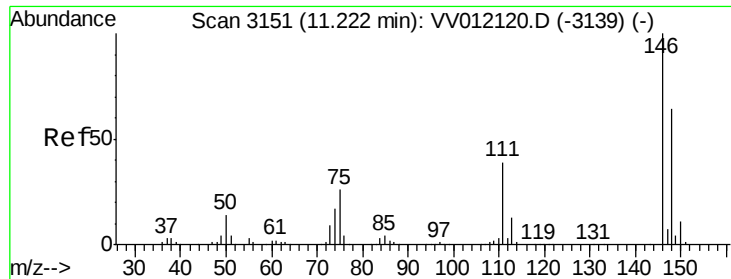
120 47.2 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.978 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

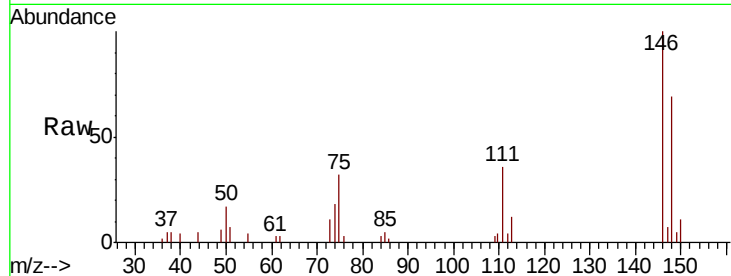
Tgt Ion:146 Resp: 9113

Ion Ratio Lower Upper

146 100

111 36.0 26.8 49.8

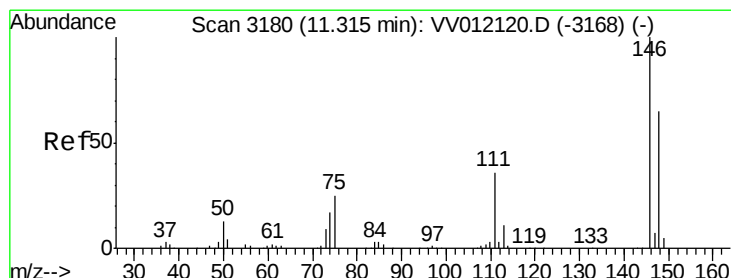
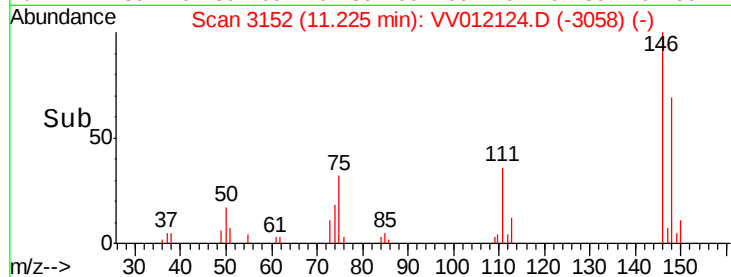
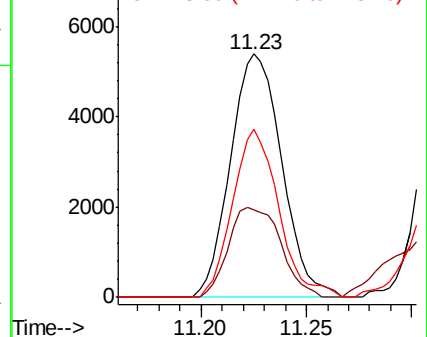
148 69.0 44.6 82.8



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

1,4-Dichlorobenzene

Concen: 3.309 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV012124.D

Acq: 07 Aug 2019 13:44

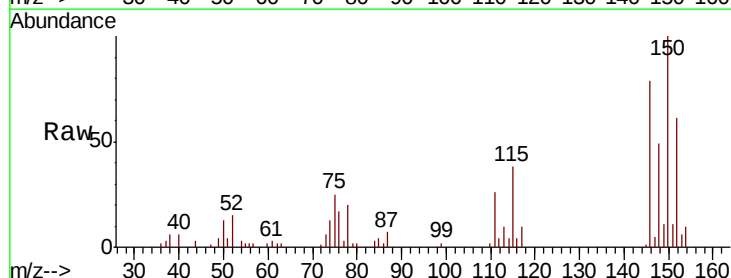
Tgt Ion:146 Resp: 10236

Ion Ratio Lower Upper

146 100

111 33.1 25.8 47.8

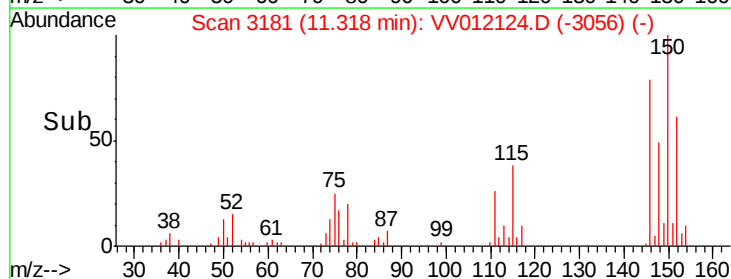
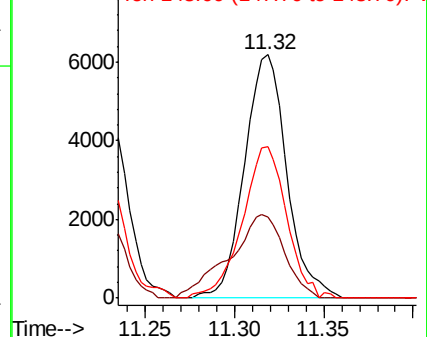
148 62.4 45.2 84.0

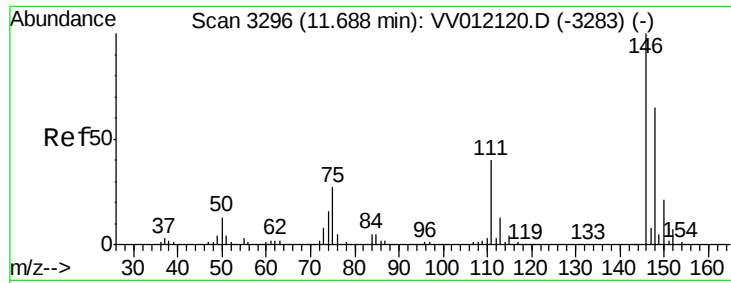


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

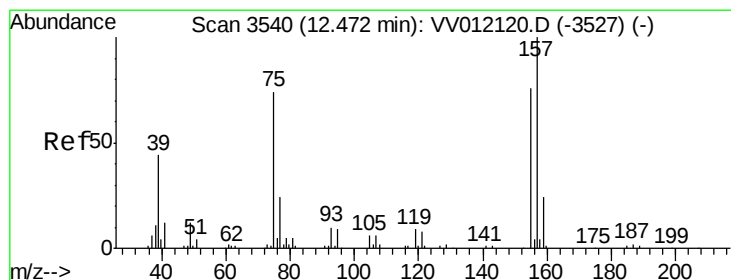
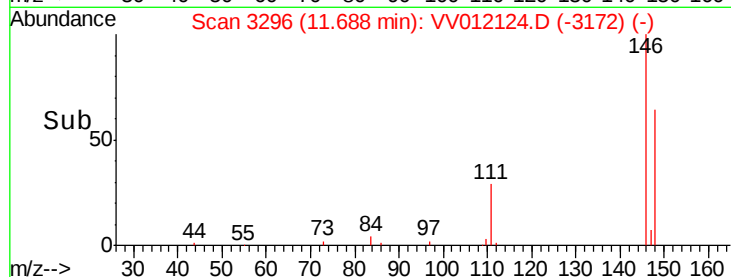
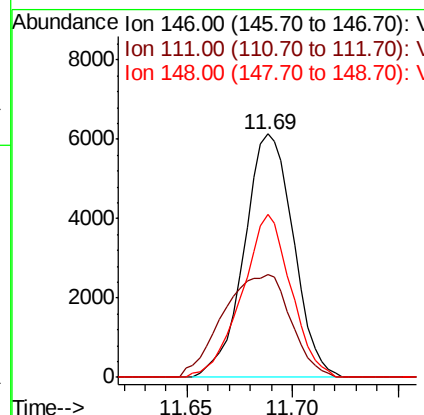
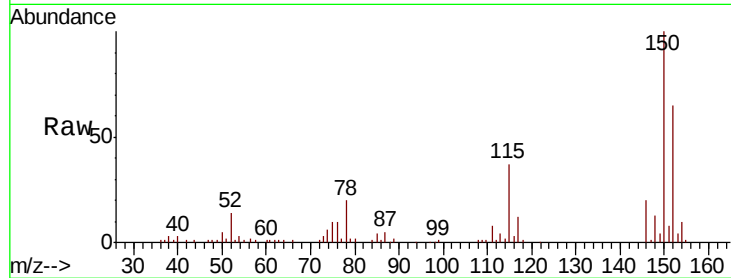




#67  
 1,2-Dichlorobenzene  
 Concen: 3.182 ug/L  
 RT: 11.69 min Scan# 3296  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

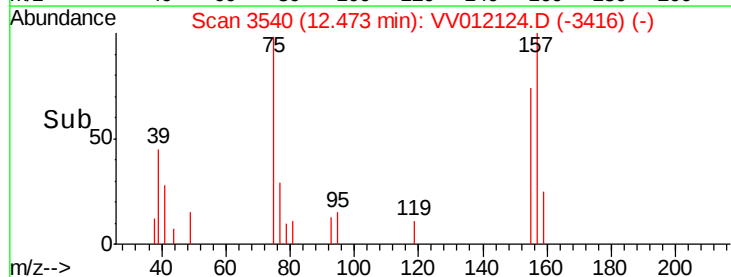
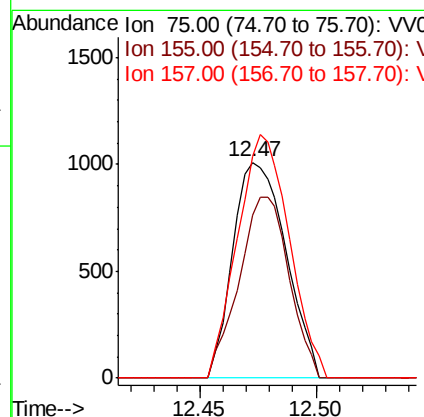
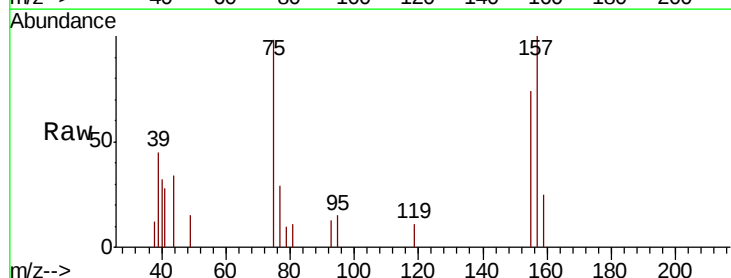
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL04

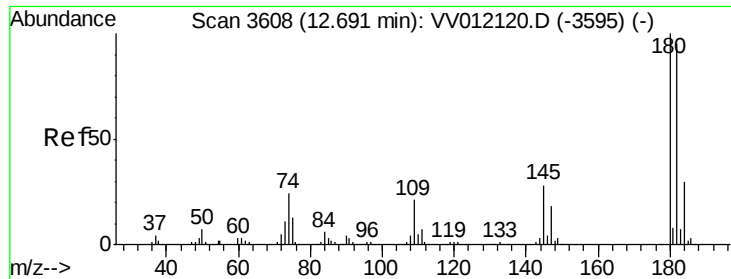
Tgt Ion:146 Resp: 9937  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 32.2 48.2  
 148 67.2 53.2 79.8



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 3.231 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion: 75 Resp: 1602  
 Ion Ratio Lower Upper  
 75 100  
 155 75.8 81.2 121.8#  
 157 102.5 102.3 153.5

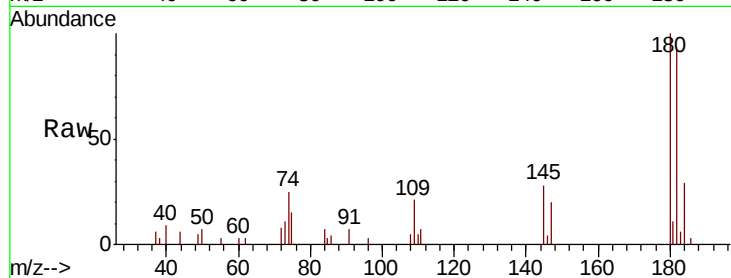




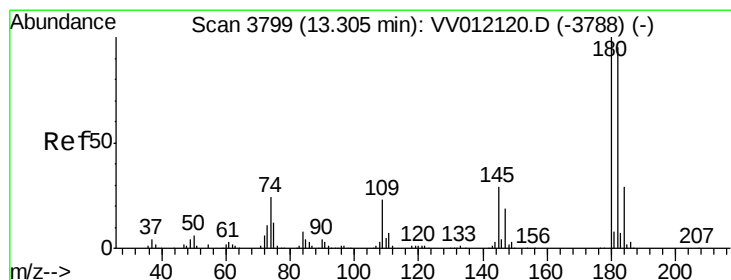
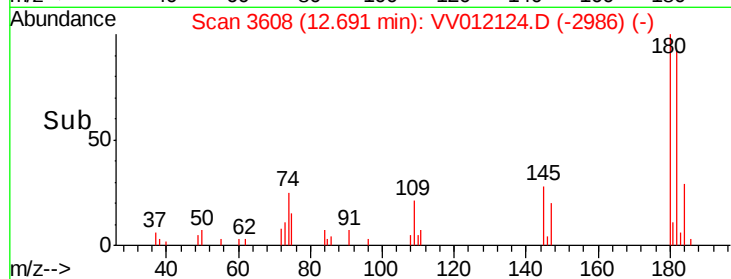
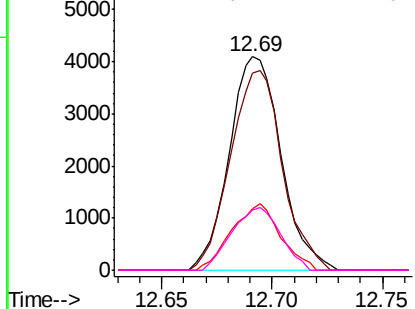
#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.693 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion:180 Resp: 6681  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 76.5 114.7  
 184 29.4 24.6 36.8  
 145 27.7 22.5 33.7

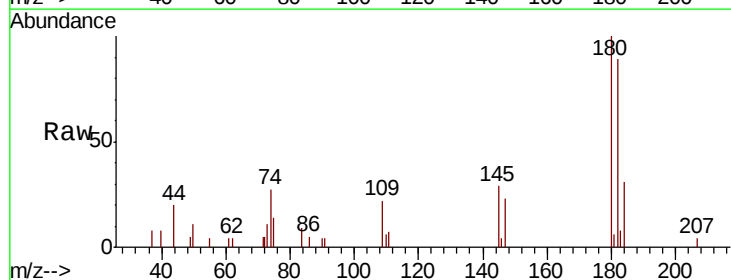


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

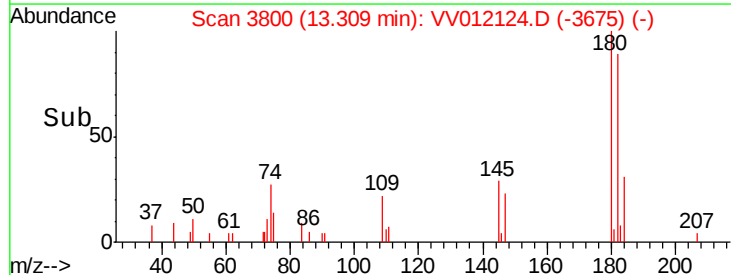
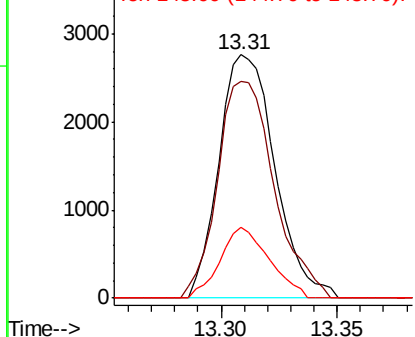


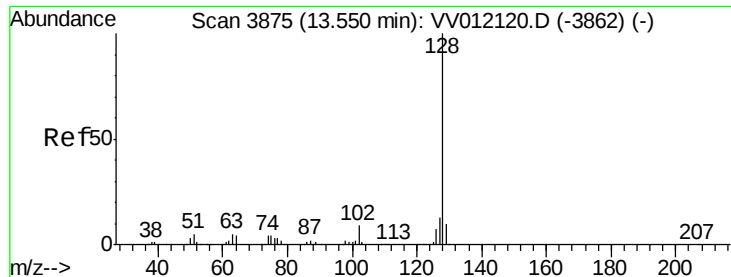
#70  
 1,2,4-trichlorobenzene  
 Concen: 2.153 ug/L  
 RT: 13.31 min Scan# 3800  
 Delta R.T. 0.00 min  
 Lab File: VV012124.D  
 Acq: 07 Aug 2019 13:44

Tgt Ion:180 Resp: 4632  
 Ion Ratio Lower Upper  
 180 100  
 182 90.4 76.5 114.7  
 145 25.5 23.3 34.9



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

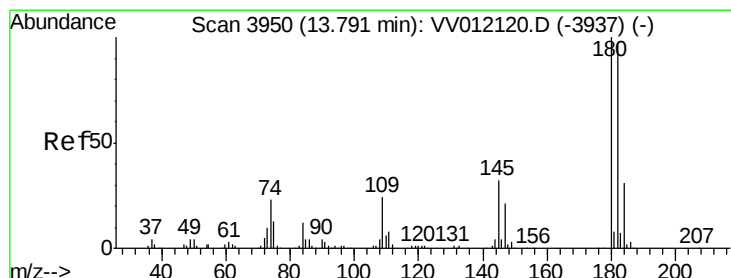
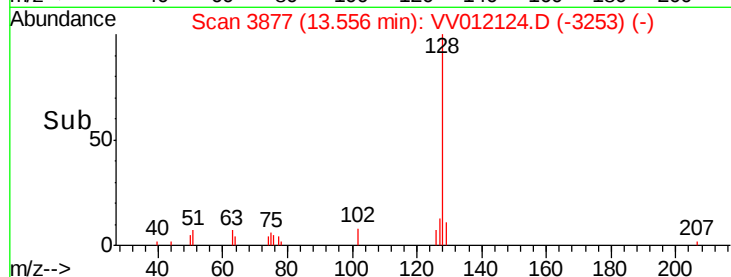
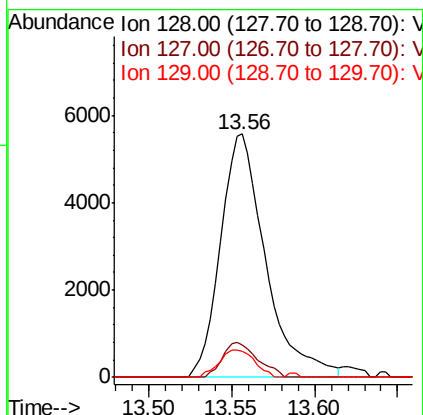
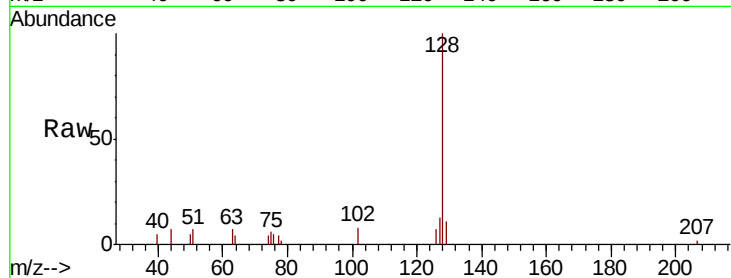




#71  
Naphthalene  
Concen: 1.933 ug/L  
RT: 13.56 min Scan# 3877  
Delta R.T. 0.01 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

Tgt Ion:128 Resp: 10539  
Ion Ratio Lower Upper  
128 100  
127 11.2 10.6 15.8  
129 8.8 8.6 12.8



#72  
1,2,3-Trichlorobenzene  
Concen: 2.180 ug/L  
RT: 13.79 min Scan# 3951  
Delta R.T. 0.00 min  
Lab File: VV012124.D  
Acq: 07 Aug 2019 13:44

Tgt Ion:180 Resp: 4720  
Ion Ratio Lower Upper  
180 100  
182 100.1 77.2 115.8  
145 34.0 24.6 36.8

