

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053120\  
 Data File : VV016396.D  
 Acq On : 31 May 2020 18:38  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 01 07:21:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 07:14:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 75317    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 73908    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 36599    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 30142    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 23314    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 54363    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 94.20%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 74392    | 52.29    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.58% |
| 24) Chloroform-d               | 4.38   | 84    | 54677    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 29435    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.40% |
| 32) Benzene-d6                 | 5.08   | 84    | 104169   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 31889    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.40%  |
| 41) Toluene-d8                 | 7.34   | 98    | 97584    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 11747    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.40% |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 54125    | 49.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.48%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 24179    | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.60% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 32537    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.80%  |

## Target Compounds

|                                |      |     |       |        | Ovalue    |
|--------------------------------|------|-----|-------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 32097 | 5.228  | ug/L 100  |
| 3) Chloromethane               | 1.25 | 50  | 35880 | 4.772  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 33838 | 5.036  | ug/L 98   |
| 6) Bromomethane                | 1.53 | 94  | 17408 | 4.612  | ug/L 98   |
| 8) Chloroethane                | 1.60 | 64  | 20654 | 5.102  | ug/L 100  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 48663 | 5.348  | ug/L 95   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 25411 | 4.981  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 24450 | 5.044  | ug/L 85   |
| 13) Acetone                    | 2.23 | 43  | 43451 | 45.404 | ug/L 99   |
| 14) Carbon disulfide           | 2.31 | 76  | 74127 | 5.029  | ug/L 97   |
| 15) Methyl Acetate             | 2.46 | 43  | 11283 | 4.698  | ug/L 95   |
| 16) Methylene chloride         | 2.53 | 84  | 26218 | 5.056  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 60602 | 5.338  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 26699 | 5.189  | ug/L 98   |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 52673 | 5.190  | ug/L 99   |
| 21) 2-Butanone                 | 4.03 | 43  | 77380 | 54.835 | ug/L # 73 |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 28927 | 5.094  | ug/L 94   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053120\  
 Data File : VV016396.D  
 Acq On : 31 May 2020 18:38  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

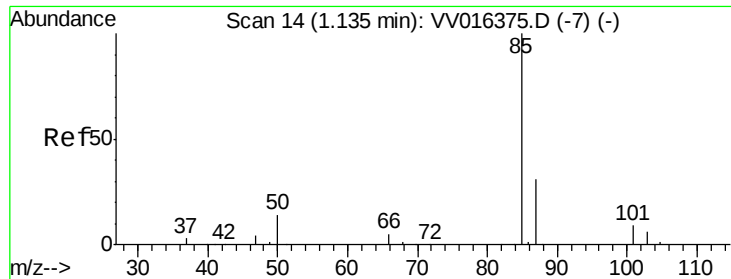
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 01 07:21:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR053020WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 07:14:30 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 12240    | 5.523  | ug/L  | 95       |
| 25) Chloroform                 | 4.41  | 83   | 54375    | 5.346  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 36841    | 5.492  | ug/L  | 96       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 46332    | 5.318  | ug/L  | 99       |
| 30) Cyclohexane                | 4.70  | 56   | 49621    | 5.290  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 39786    | 5.304  | ug/L  | 100      |
| 33) Benzene                    | 5.13  | 78   | 116173   | 5.308  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 29442    | 5.132  | ug/L  | 96       |
| 35) Methylcyclohexane          | 6.15  | 83   | 48048    | 5.199  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 29391    | 5.312  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 35152    | 5.283  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 38275    | 5.237  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 184804   | 55.305 | ug/L  | 100      |
| 42) Toluene                    | 7.41  | 91   | 127885   | 5.498  | ug/L  | 99       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 111459   | 5.402  | ug/L  | 99       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 113324   | 5.391  | ug/L  | 100      |
| 46) trans-1,3-Dichloropropene  | 7.68  | 75   | 31755    | 5.259  | ug/L  | 96       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 19327    | 5.461  | ug/L  | 95       |
| 49) Tetrachloroethene          | 8.00  | 164  | 22305    | 5.300  | ug/L  | 95       |
| 50) 2-Hexanone                 | 8.16  | 43   | 133752   | 57.387 | ug/L  | 99       |
| 51) Dibromochloromethane       | 8.27  | 129  | 20332    | 5.495  | ug/L  | 94       |
| 52) 1,2-Dibromoethane          | 8.38  | 107  | 17969    | 5.372  | ug/L  | 96       |
| 53) Chlorobenzene              | 8.90  | 112  | 76756    | 5.257  | ug/L  | 98       |
| 54) Ethylbenzene               | 9.03  | 91   | 138455   | 5.397  | ug/L  | 98       |
| 55) m,p-xylene                 | 9.16  | 106  | 52967    | 5.516  | ug/L  | 99       |
| 56) o-xylene                   | 9.57  | 106  | 49174    | 5.437  | ug/L  | 99       |
| 57) Styrene                    | 9.58  | 104  | 85948    | 5.566  | ug/L  | 98       |
| 58) Isopropylbenzene           | 9.95  | 105  | 132870   | 5.391  | ug/L  | 100      |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 23934    | 5.361  | ug/L  | 100      |
| 62) Bromoform                  | 9.76  | 173  | 8425     | 5.450  | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 60036    | 5.325  | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 61253    | 5.255  | ug/L  | 99       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 55404    | 5.280  | ug/L  | 99       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 3457     | 5.054  | ug/L  | 96       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 41052    | 5.057  | ug/L  | 98       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 34431    | 4.941  | ug/L  | 99       |
| 70) Naphthalene                | 13.53 | 128  | 64600    | 3.871  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 30951    | 4.978  | ug/L  | 98       |

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





#2

Dichlorodifluoromethane

Concen: 5.228 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

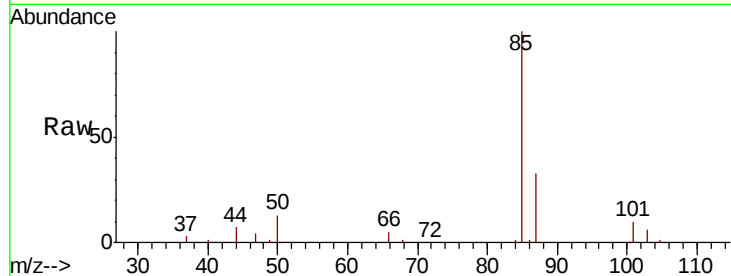
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 32097

Ion Ratio Lower Upper

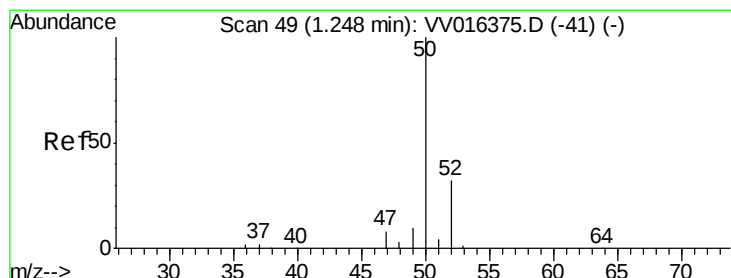
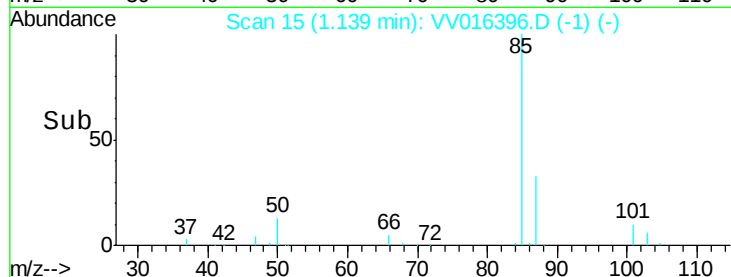
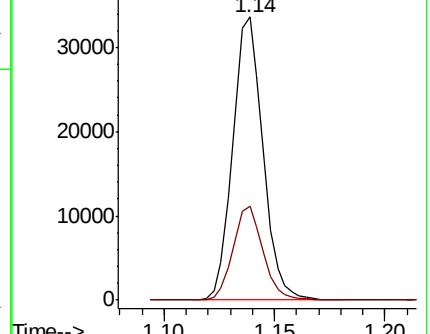
85 100

87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.772 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016396.D

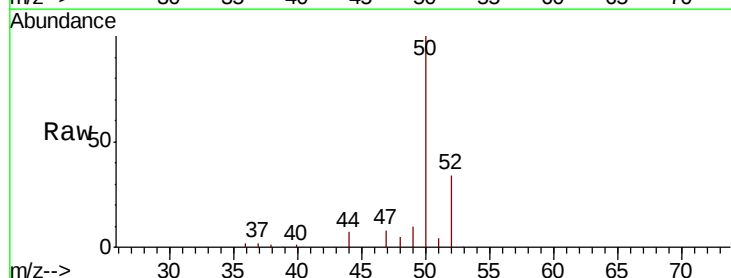
Acq: 31 May 2020 18:38

Tgt Ion: 50 Resp: 35880

Ion Ratio Lower Upper

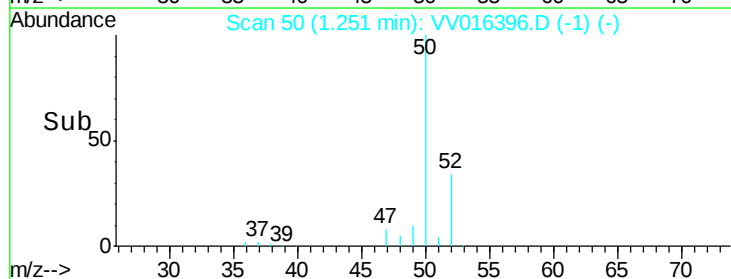
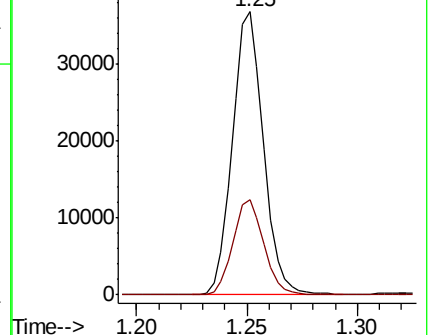
50 100

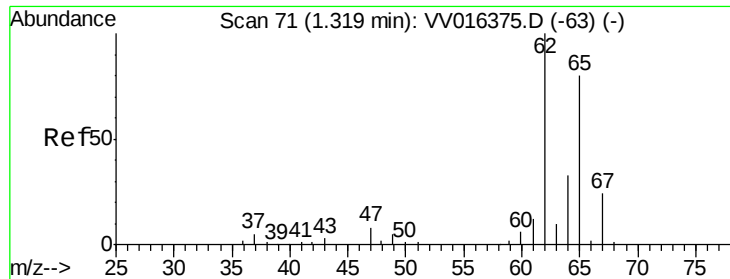
52 33.7 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 5.036 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

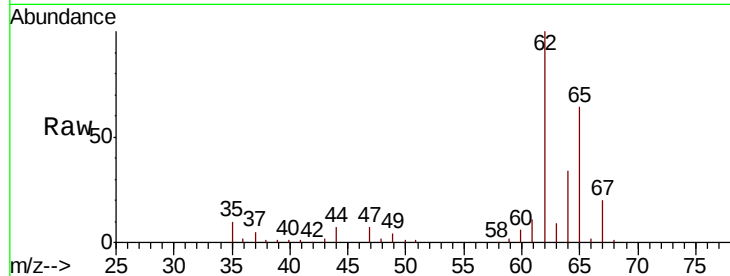
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 33838

Ion Ratio Lower Upper

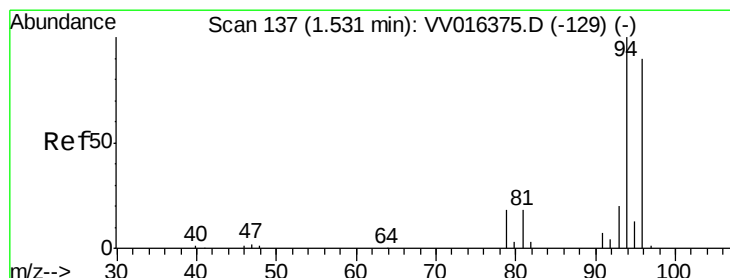
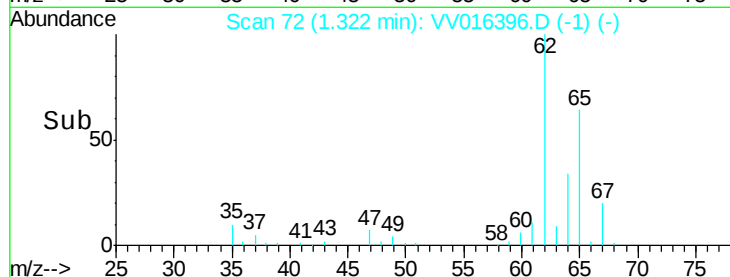
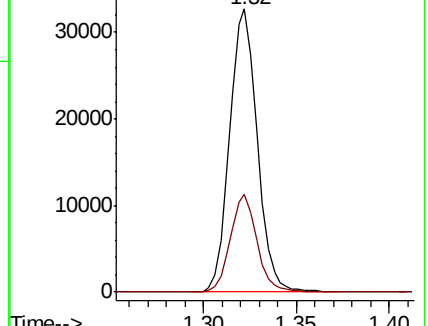
62 100

64 34.4 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 4.612 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV016396.D

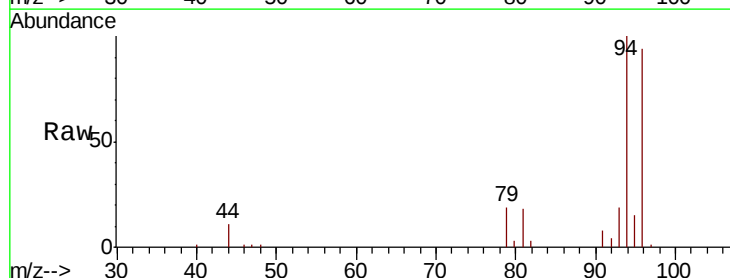
Acq: 31 May 2020 18:38

Tgt Ion: 94 Resp: 17408

Ion Ratio Lower Upper

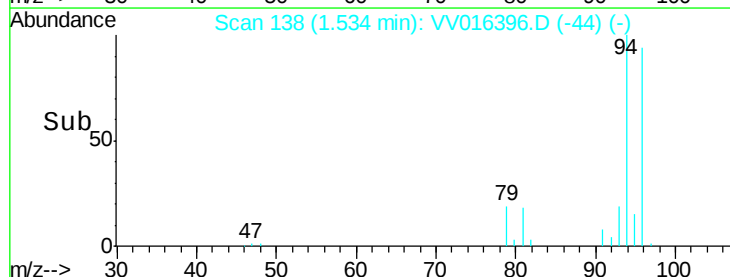
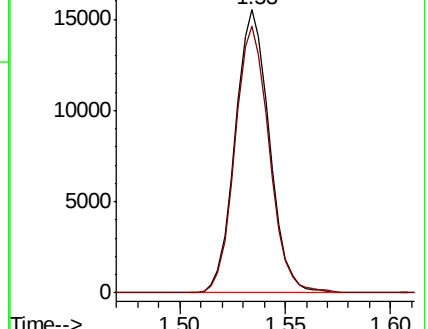
94 100

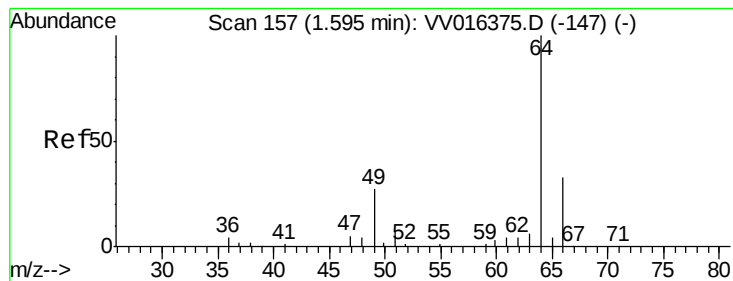
96 94.2 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.102 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

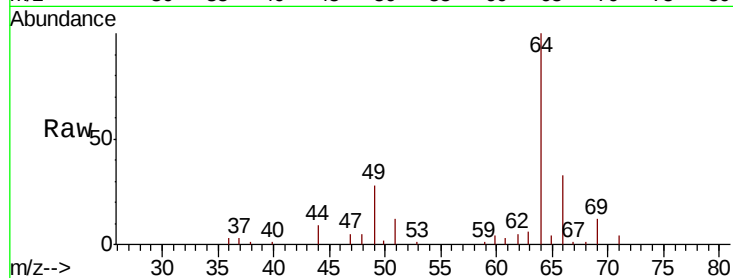
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 20654

Ion Ratio Lower Upper

64 100

66 33.4 23.4 43.6



Abundance Ion 64.10 (63.80 to 64.80): VV016375.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV016396.D (-64) (-)

1.60

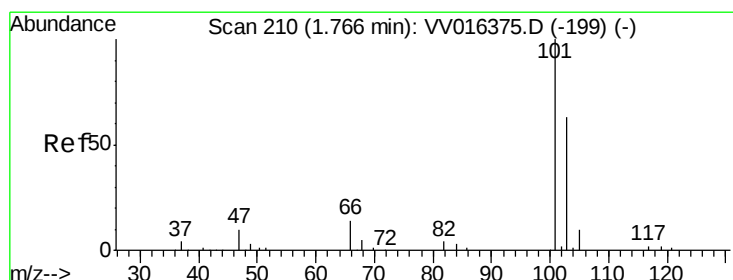
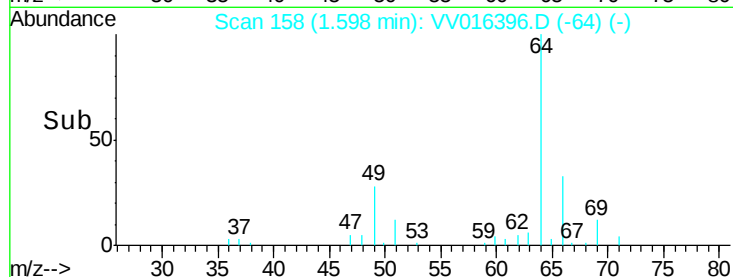
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 5.348 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV016396.D

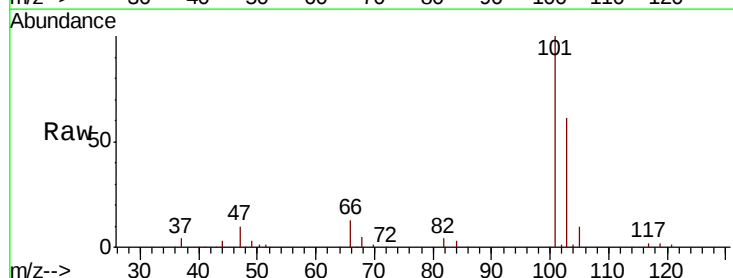
Acq: 31 May 2020 18:38

Tgt Ion:101 Resp: 48663

Ion Ratio Lower Upper

101 100

103 61.7 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VV016375.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV016396.D (-117) (-)

1.77

40000

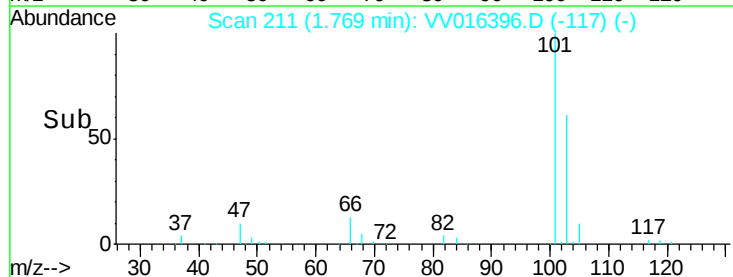
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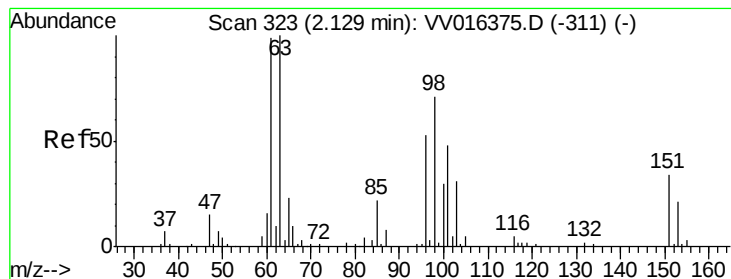
20000

10000

0

Time-->





#10

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

Concen: 4.981 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

Instrument :

MSVOA\_V

ClientSampleId :

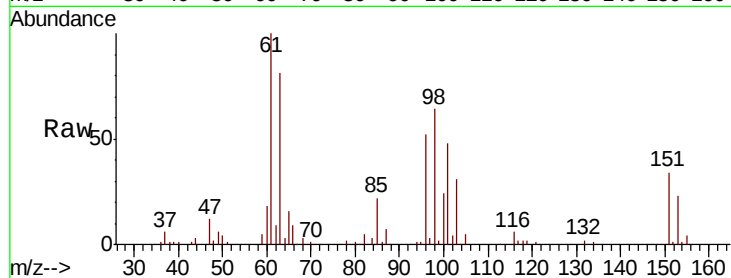
Tot Ion:101 Resp: 25411

Ion Ratio Lower Upper

101 100

85 45.8 35.7 53.5

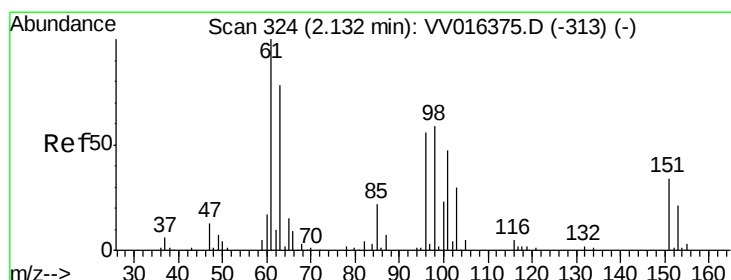
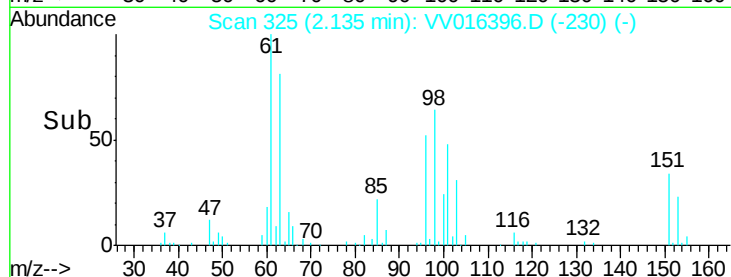
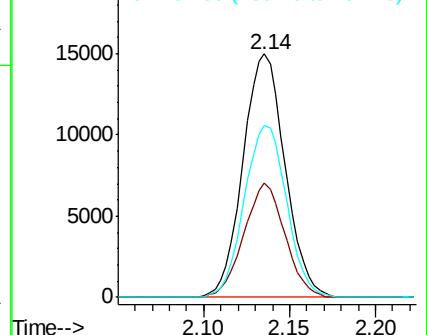
151 71.2 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.044 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

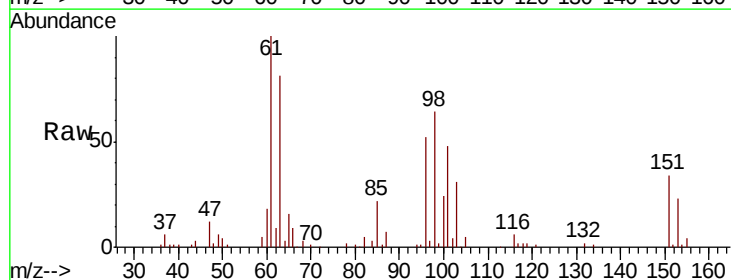
Tgt Ion: 96 Resp: 24450

Ion Ratio Lower Upper

96 100

61 191.8 125.4 233.0

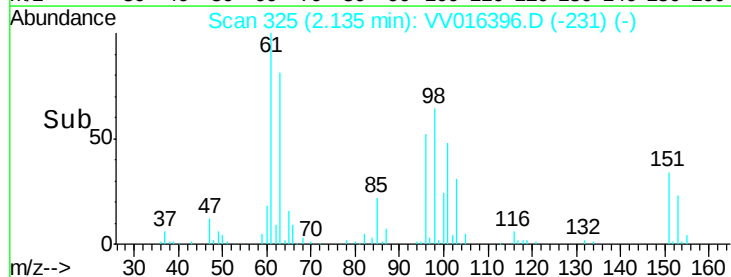
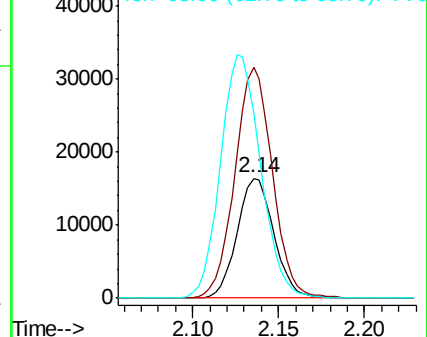
63 154.4 88.2 163.8

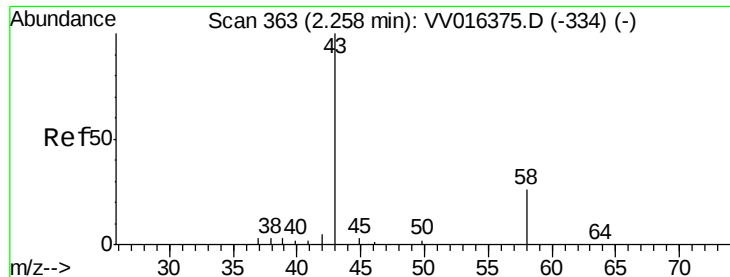


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.404 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.03 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

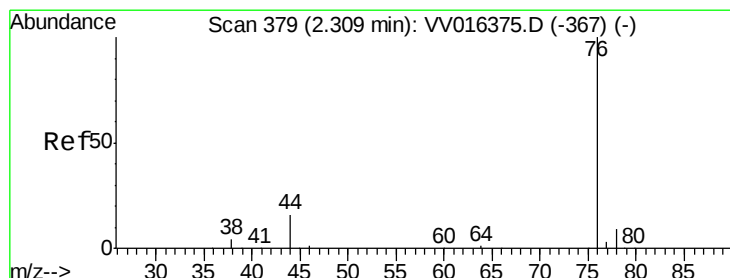
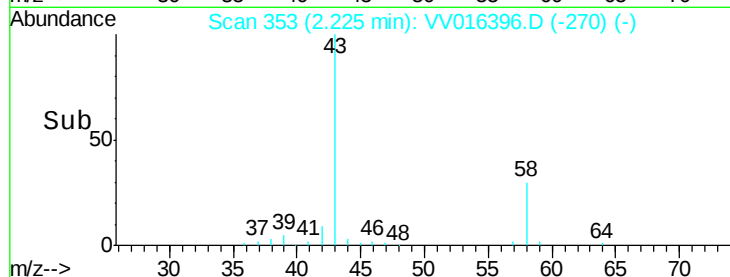
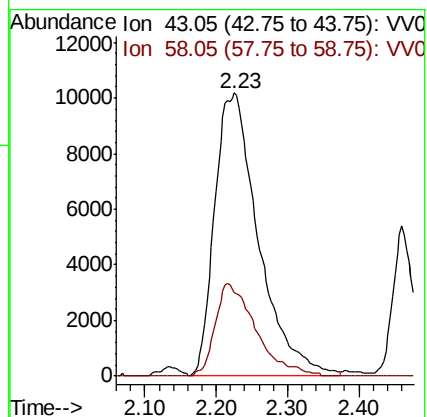
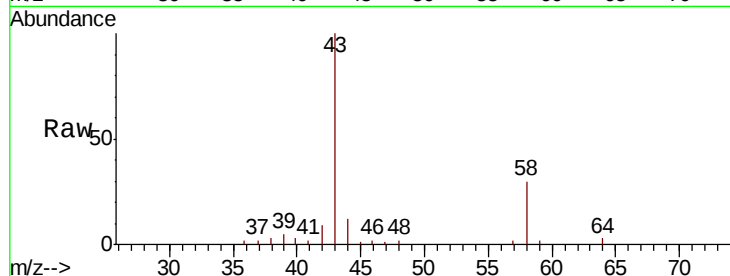
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 43451

Ion Ratio Lower Upper

43 100

58 29.2 0.0 59.2



#14

Carbon disulfide

Concen: 5.029 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV016396.D

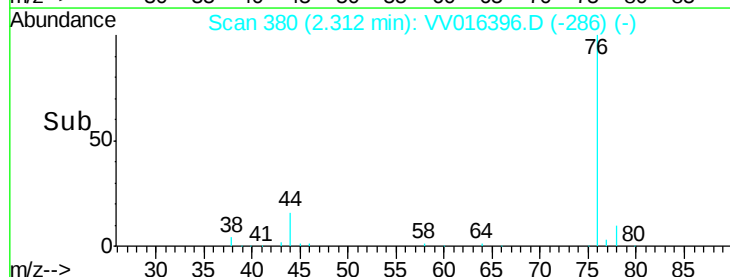
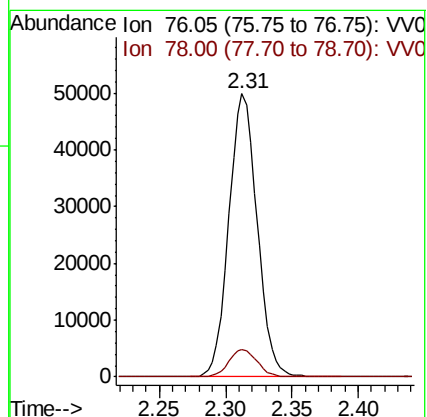
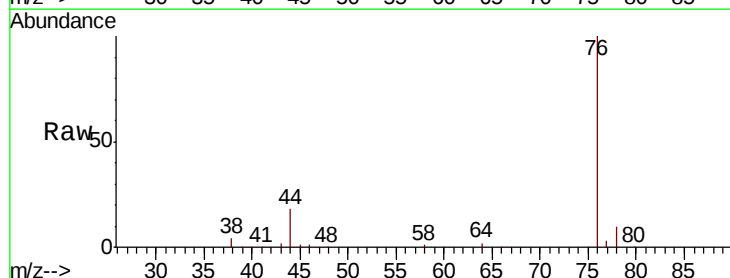
Acq: 31 May 2020 18:38

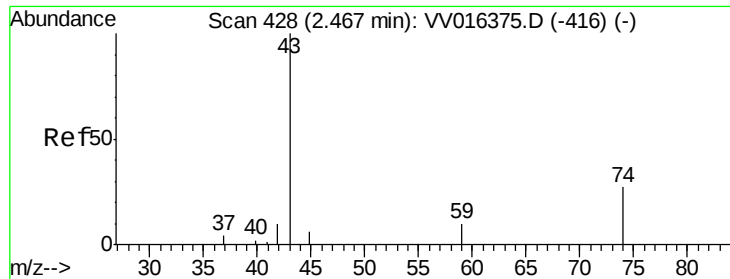
Tgt Ion: 76 Resp: 74127

Ion Ratio Lower Upper

76 100

78 9.6 6.8 10.2





#15

Methvl Acetate

Concen: 4.698 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.01 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

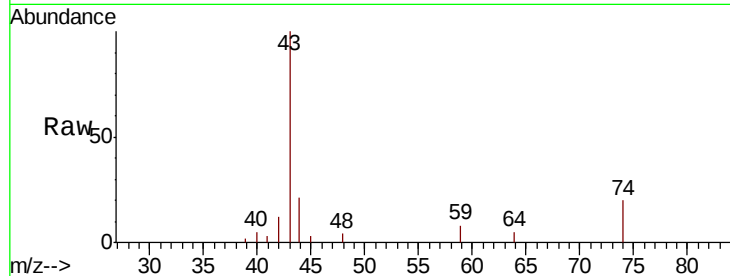
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 11283

Ion Ratio Lower Upper

43 100

74 20.8 18.6 28.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

6000

5000

4000

3000

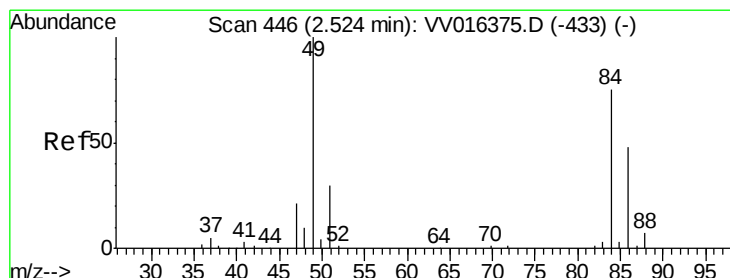
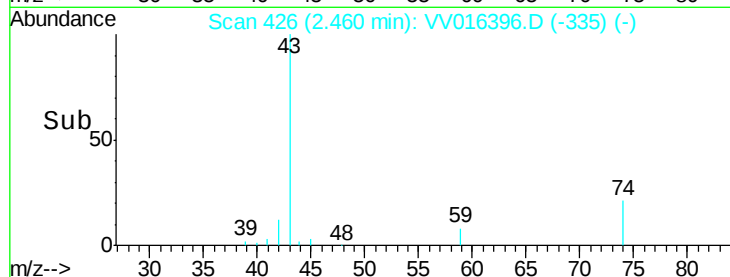
2000

1000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 5.056 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

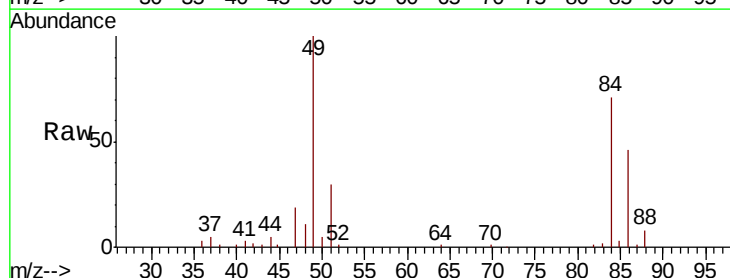
Tgt Ion: 84 Resp: 26218

Ion Ratio Lower Upper

84 100

86 64.4 44.5 82.7

49 140.2 92.3 171.3



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

30000

25000

20000

15000

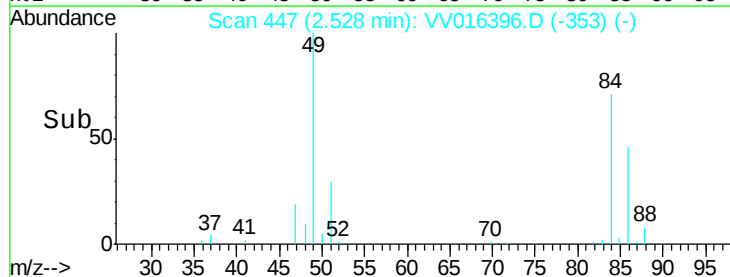
10000

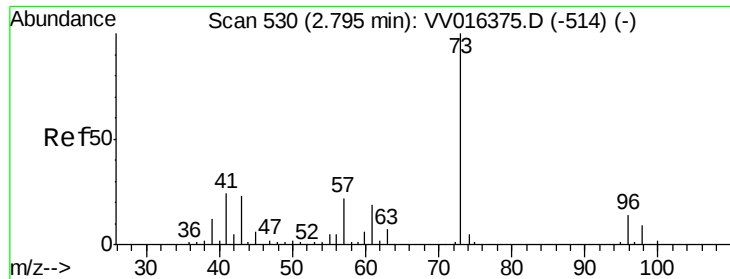
5000

0

Time-->

2.45 2.50 2.55 2.60

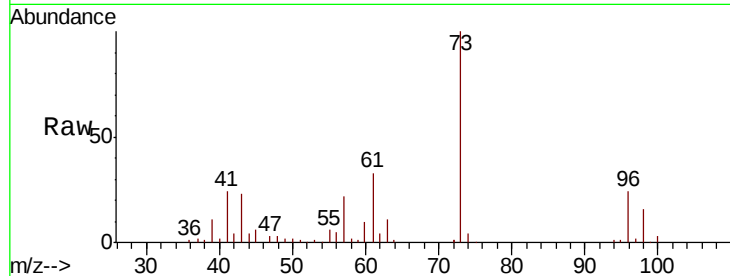




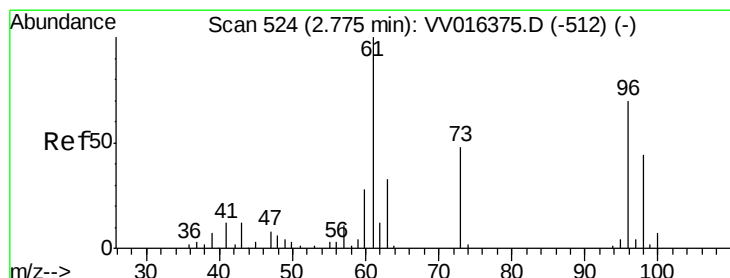
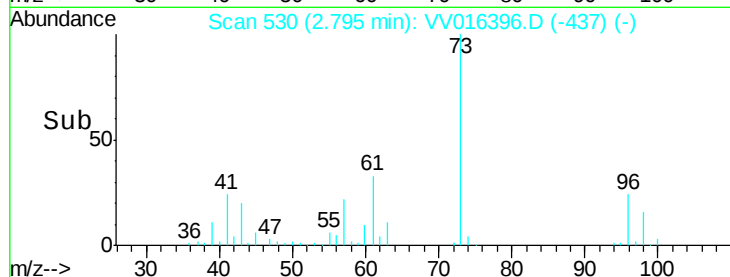
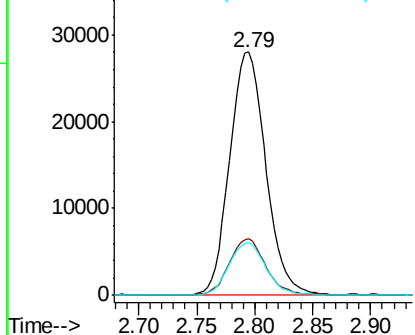
#17  
Methvl tert-butvl Ether  
Concen: 5.338 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 73 Resp: 60602  
Ion Ratio Lower Upper  
73 100  
43 23.7 19.4 29.0  
57 22.2 18.4 27.6

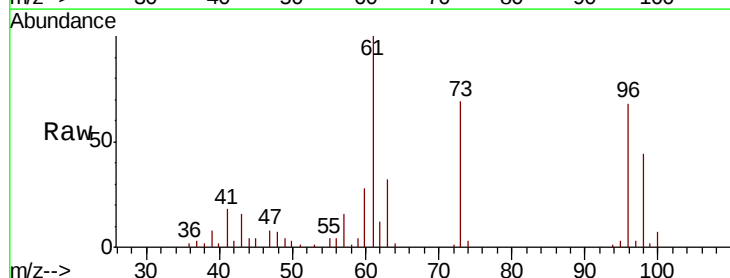


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

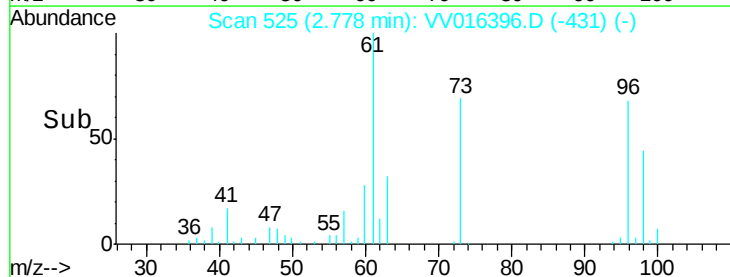
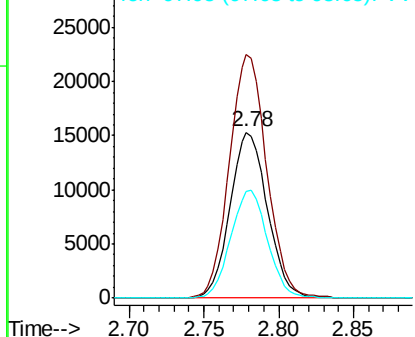


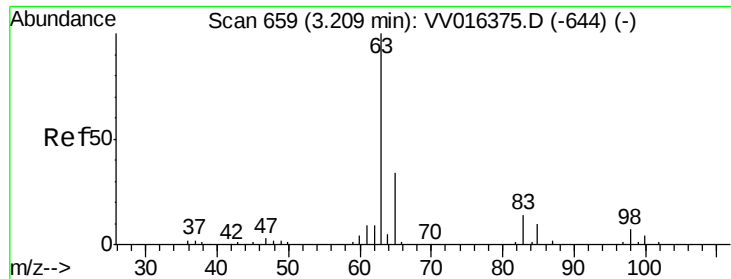
#18  
trans-1,2-Dichloroethene  
Concen: 5.189 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 96 Resp: 26699  
Ion Ratio Lower Upper  
96 100  
61 146.5 103.1 191.5  
98 64.2 43.0 79.8



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 97.95 (97.65 to 98.65): VV0

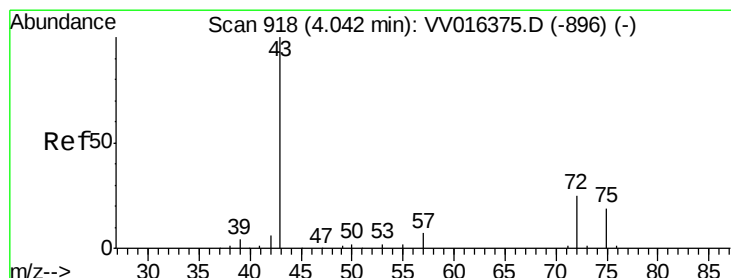
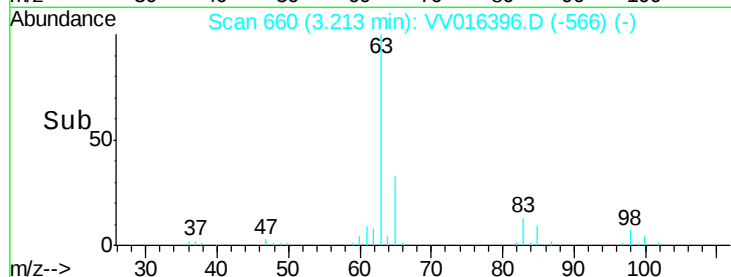
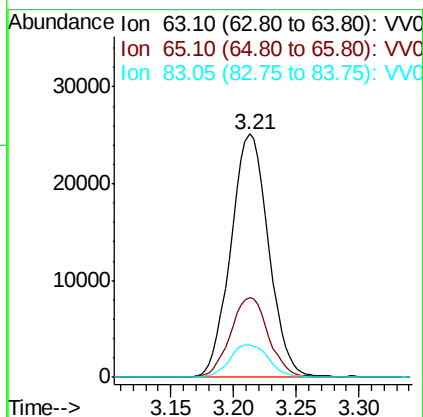
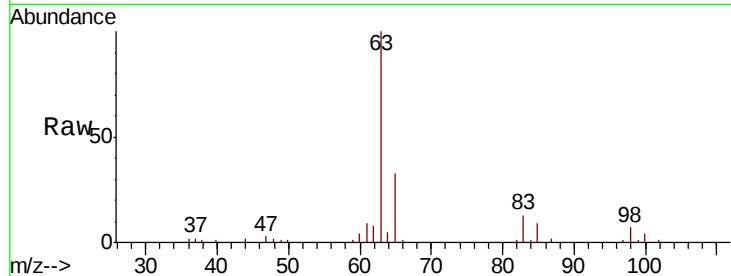




#19  
 1,1-Dichloroethane  
 Concen: 5.190 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

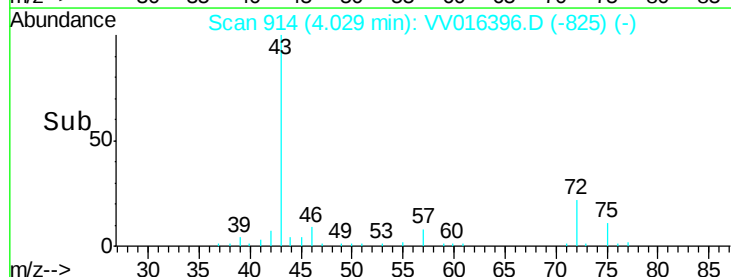
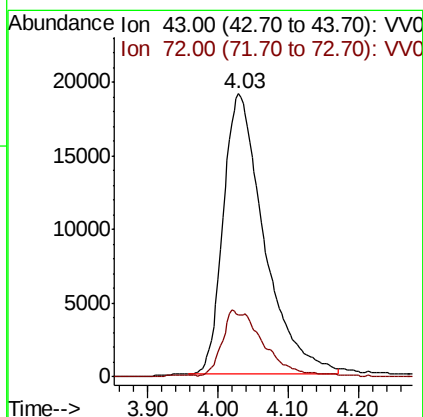
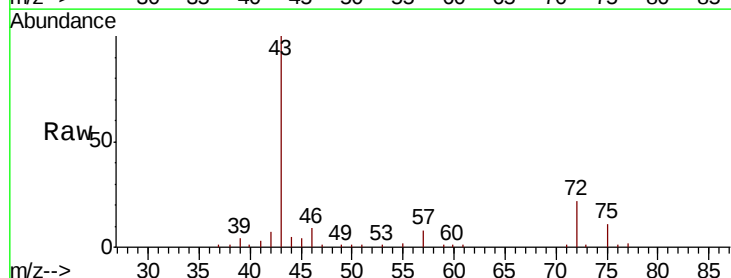
Instrument :  
 MSVOA\_V  
 ClientSampleId :

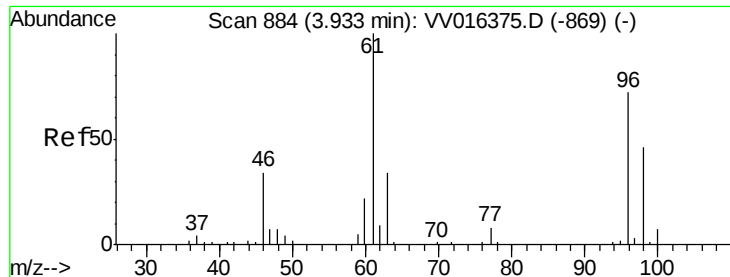
Tot Ion: 63 Resp: 52673  
 Ion Ratio Lower Upper  
 63 100  
 65 32.8 23.3 43.3  
 83 13.5 9.9 18.3



#21  
 2-Butanone  
 Concen: 54.835 ug/L  
 RT: 4.03 min Scan# 914  
 Delta R.T. -0.01 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion: 43 Resp: 77380  
 Ion Ratio Lower Upper  
 43 100  
 72 9.6 11.2 33.6#



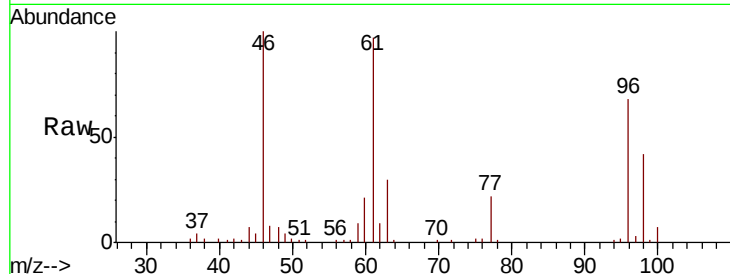


#22

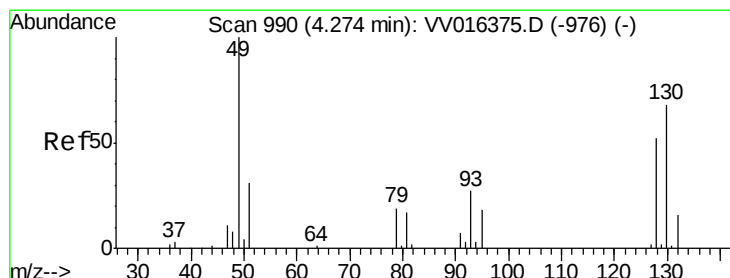
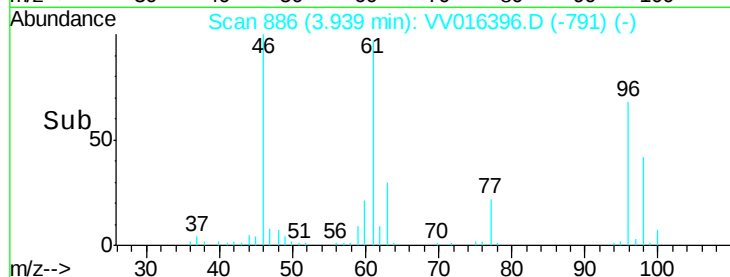
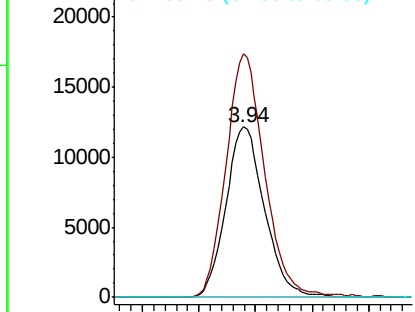
cis-1,2-Dichloroethene  
 Concen: 5.094 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.01 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 96 Resp: 28927  
 Ion Ratio Lower Upper  
 96 100  
 61 142.9 94.8 176.0  
 68 0.0 0.0 0.0



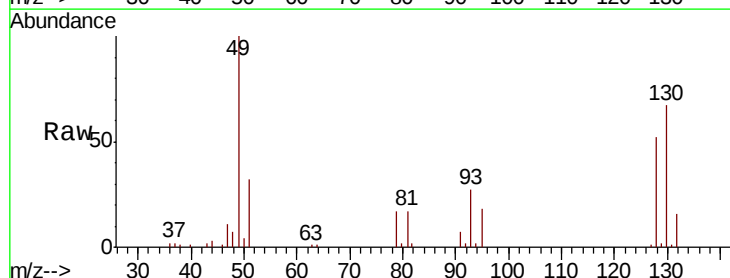
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



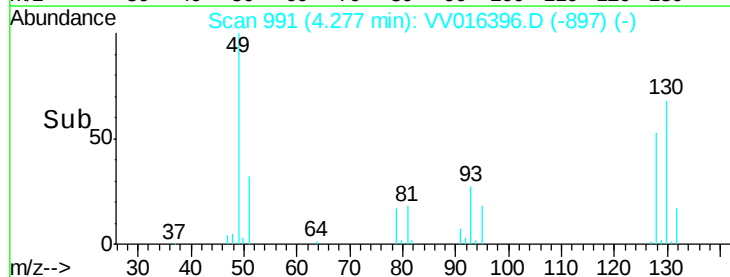
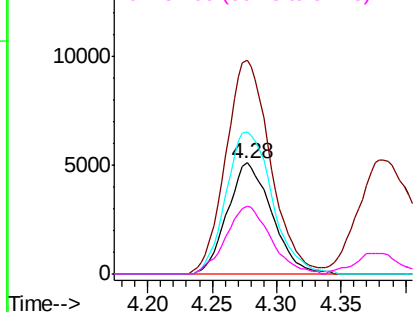
#23

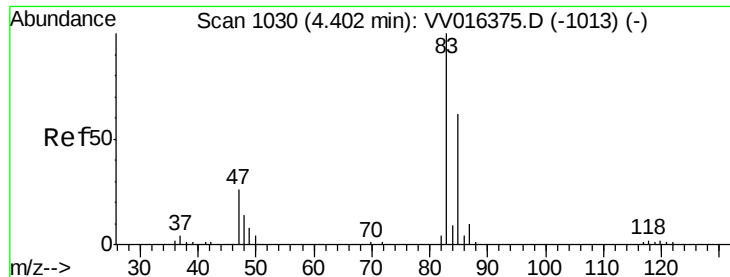
Bromochloromethane  
 Concen: 5.523 ug/L  
 RT: 4.28 min Scan# 991  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion: 128 Resp: 12240  
 Ion Ratio Lower Upper  
 128 100  
 49 191.9 141.5 262.9  
 130 128.1 90.4 167.8  
 51 60.7 53.5 80.3



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VV0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VV0

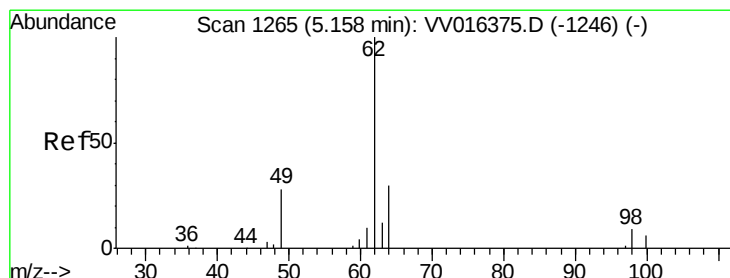
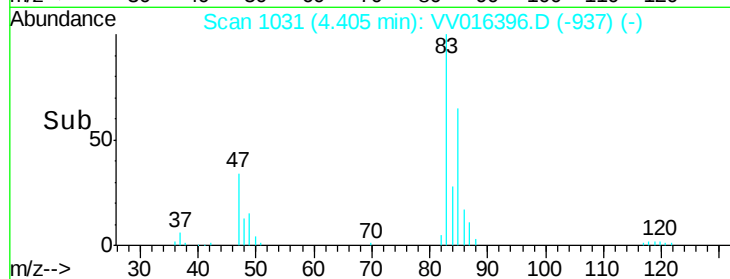
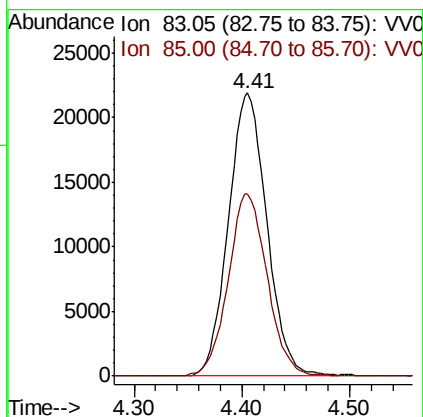
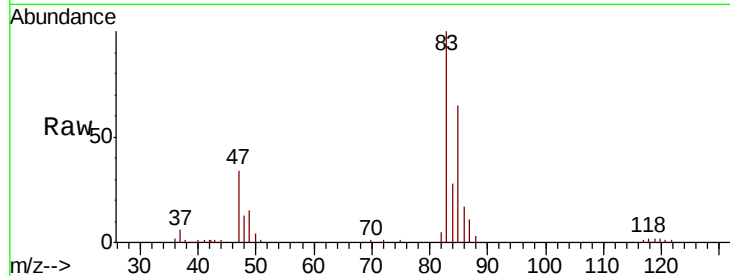




#25  
Chloroform  
Concen: 5.346 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

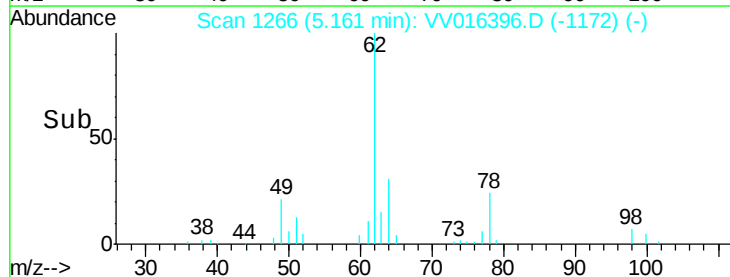
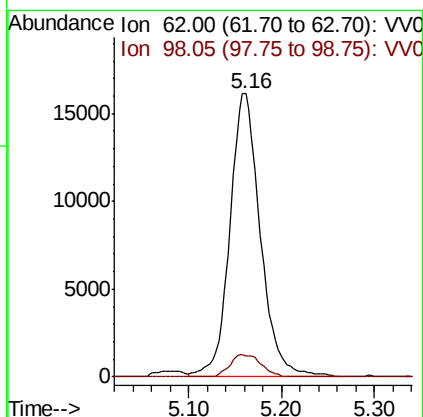
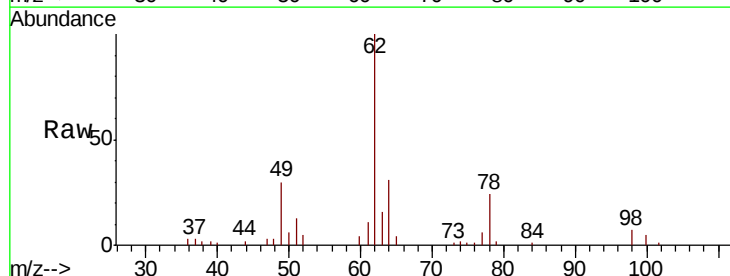
Instrument :  
MSVOA\_V  
ClientSampleId :

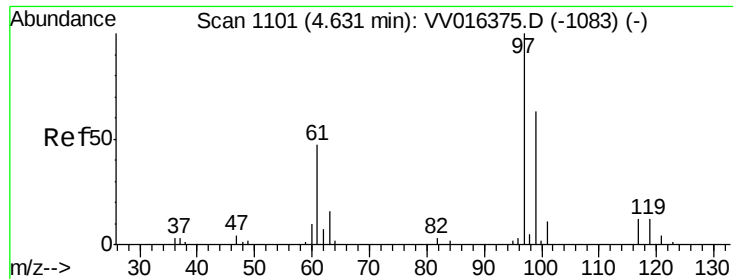
Tot Ion: 83 Resp: 54375  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 5.492 ug/L  
RT: 5.16 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 62 Resp: 36841  
Ion Ratio Lower Upper  
62 100  
98 7.4 7.0 10.4

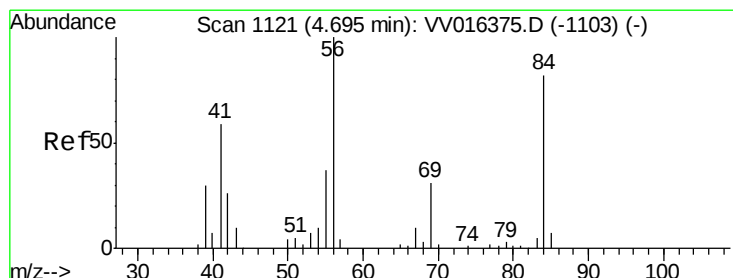
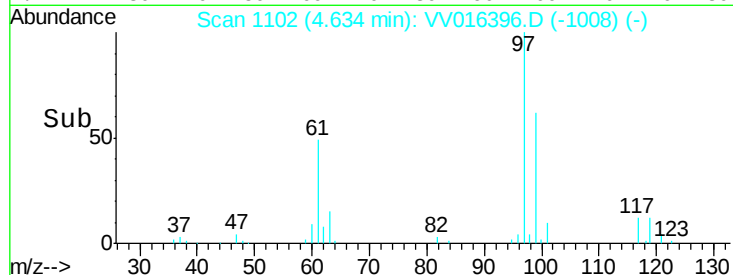
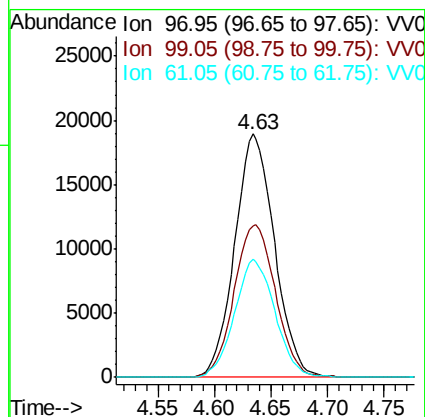
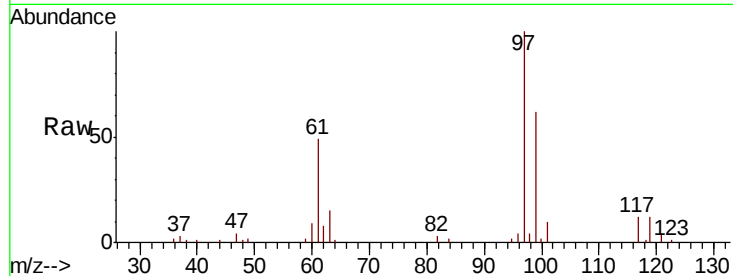




#29  
 1,1,1-Trichloroethane  
 Concen: 5.318 ug/L  
 RT: 4.63 min Scan# 1102  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

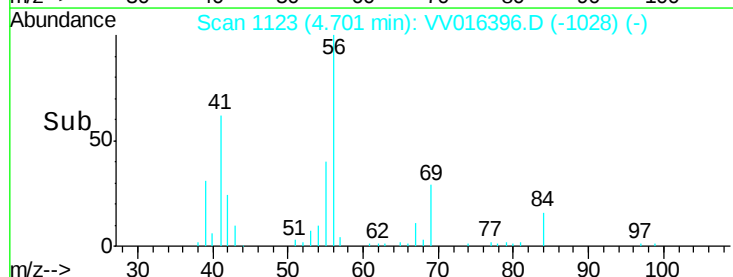
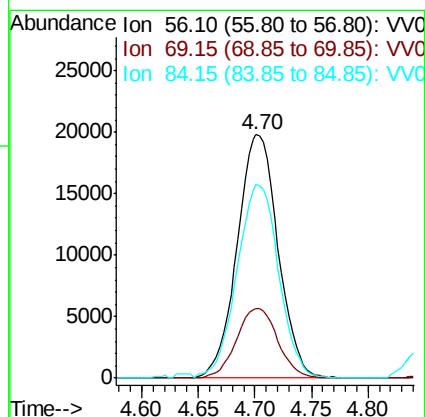
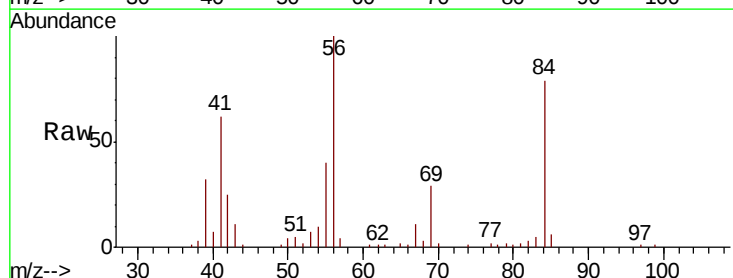
Instrument :  
 MSVOA\_V  
 ClientSampleId :

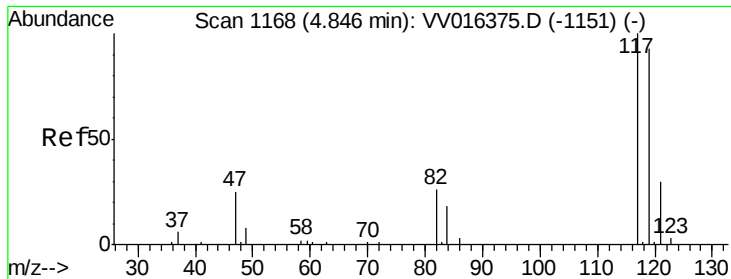
Tot Ion: 97 Resp: 46332  
 Ion Ratio Lower Upper  
 97 100  
 99 65.4 52.0 78.0  
 61 49.2 39.8 59.6



#30  
 Cyclohexane  
 Concen: 5.290 ug/L  
 RT: 4.70 min Scan# 1123  
 Delta R.T. 0.01 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion: 56 Resp: 49621  
 Ion Ratio Lower Upper  
 56 100  
 69 29.1 23.5 35.3  
 84 81.4 65.8 98.8





#31

Carbon tetrachloride

Concen: 5.304 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.01 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

Instrument :

MSVOA\_V

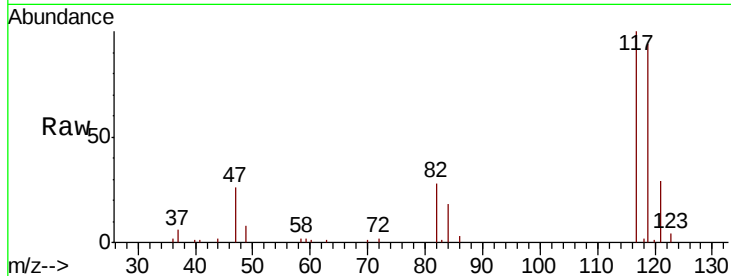
ClientSampleId :

Tot Ion:117 Resp: 39786

Ion Ratio Lower Upper

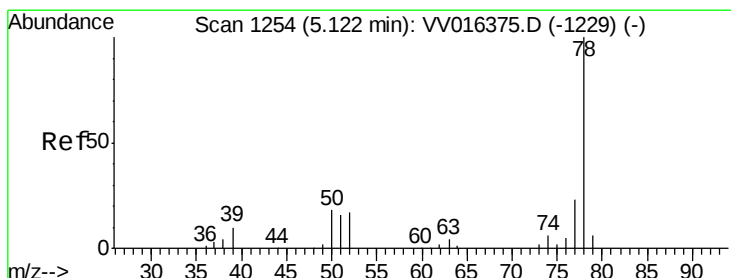
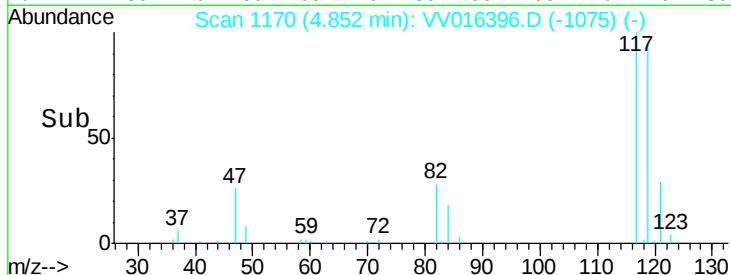
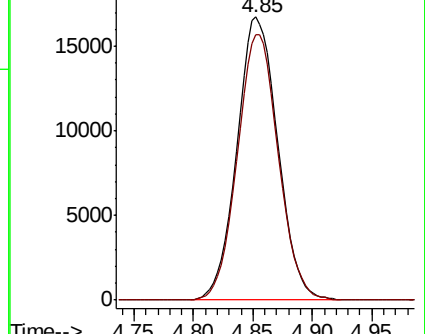
117 100

119 94.0 75.3 112.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.308 ug/L

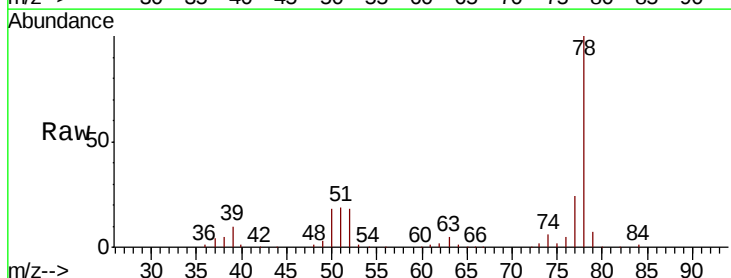
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

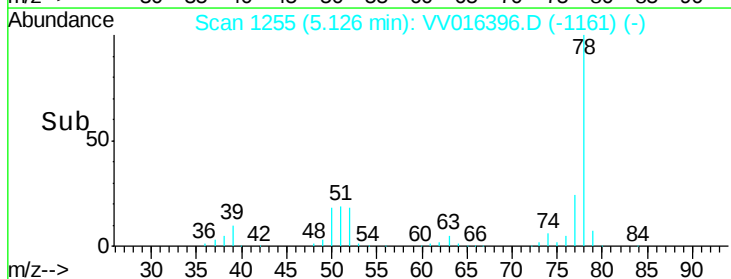
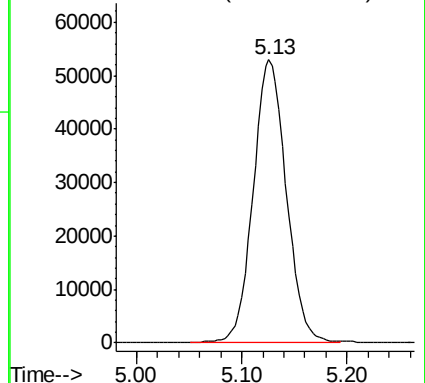
Lab File: VV016396.D

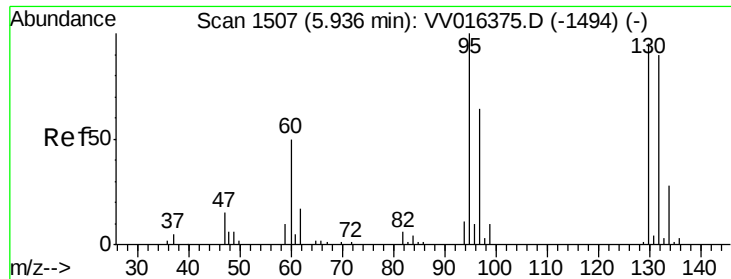
Acq: 31 May 2020 18:38

Tgt Ion: 78 Resp: 116173



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.132 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 29442

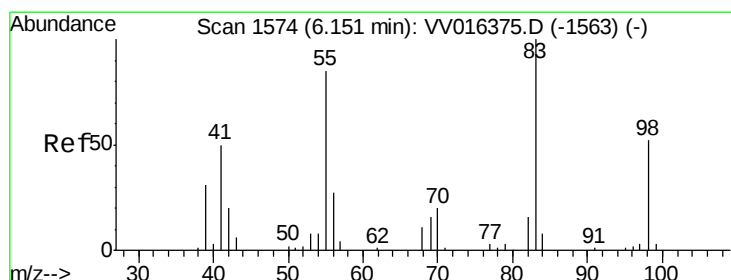
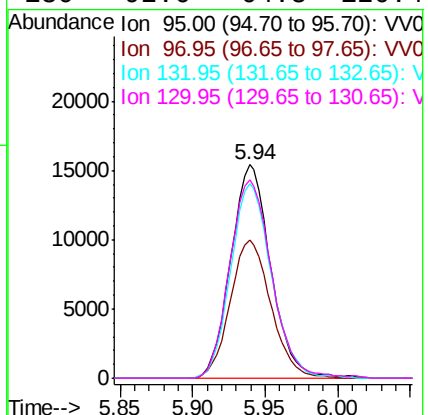
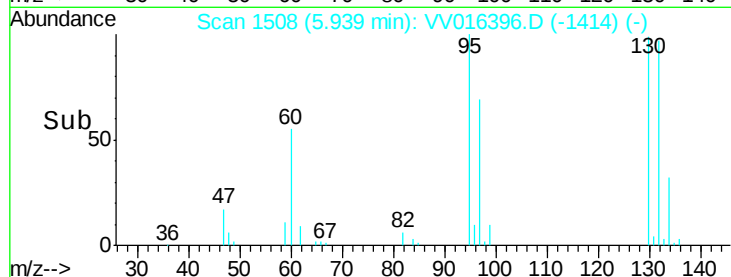
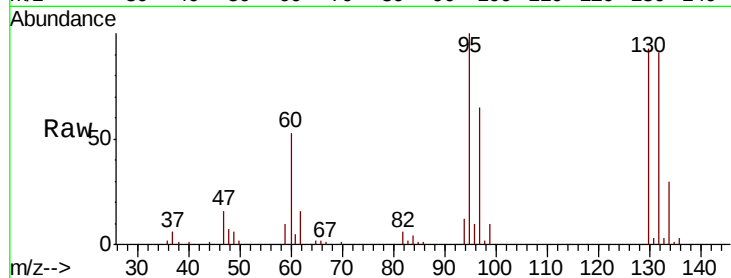
Ion Ratio Lower Upper

95 100

97 64.6 42.6 79.0

132 91.2 59.6 110.8

130 92.6 64.8 120.4



#35

Methylcyclohexane

Concen: 5.199 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

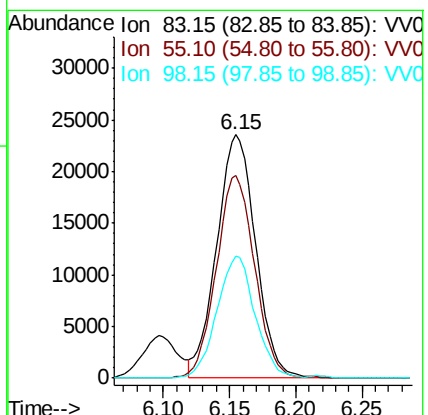
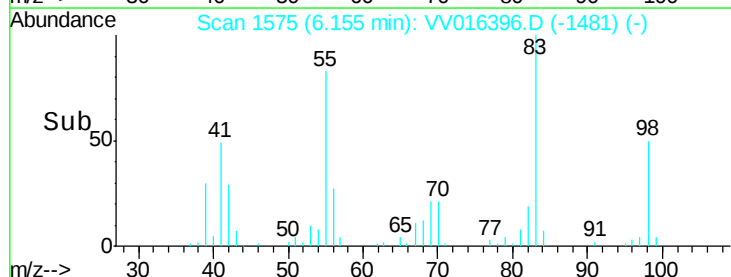
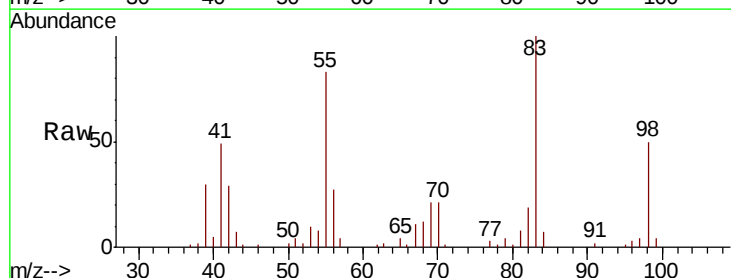
Tgt Ion: 83 Resp: 48048

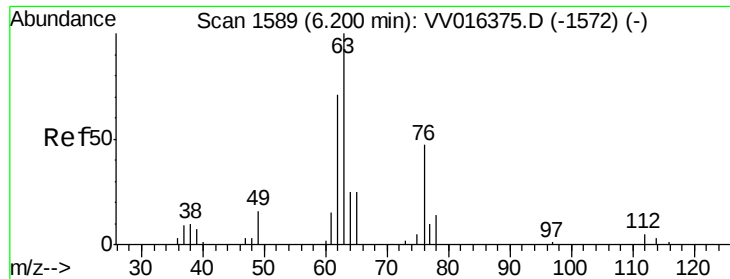
Ion Ratio Lower Upper

83 100

55 82.3 67.0 100.4

98 49.0 39.0 58.4

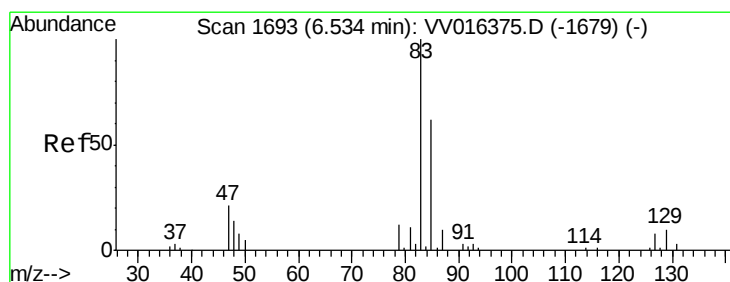
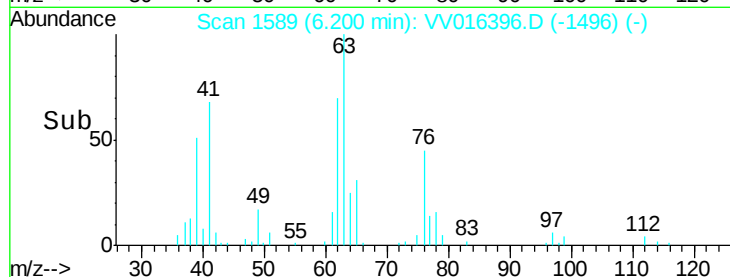
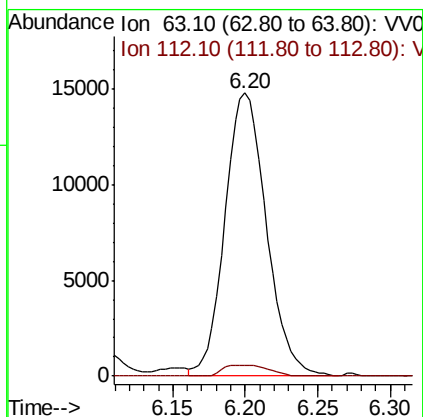
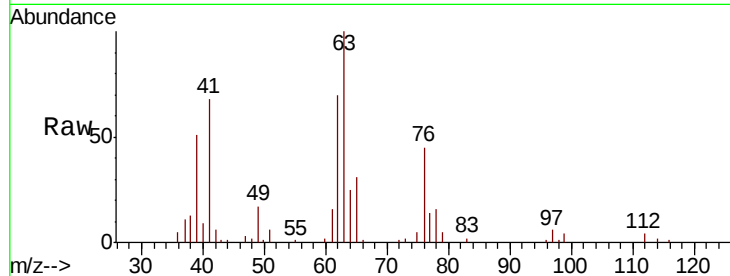




#37  
 1,2-Dichloropropane  
 Concen: 5.312 ug/L  
 RT: 6.20 min Scan# 1589  
 Delta R.T. -0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

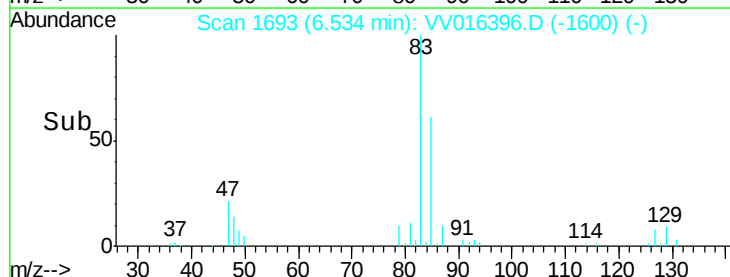
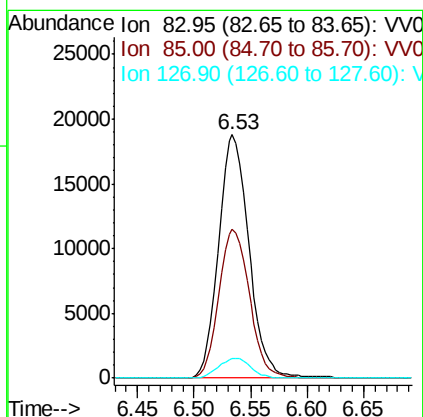
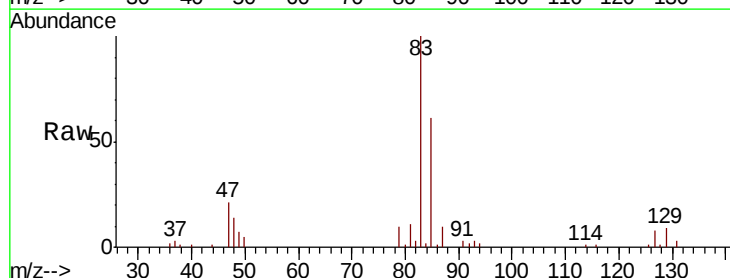
Instrument :  
 MSVOA\_V  
 ClientSampleId :

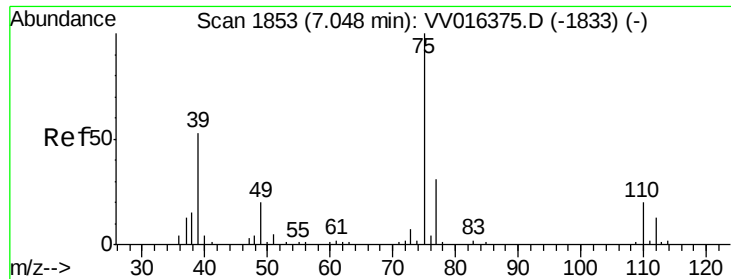
Tot Ion: 63 Resp: 29391  
 Ion Ratio Lower Upper  
 63 100  
 112 4.1 3.4 5.0



#38  
 Bromodichloromethane  
 Concen: 5.283 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion: 83 Resp: 35152  
 Ion Ratio Lower Upper  
 83 100  
 85 61.3 44.2 82.2  
 127 8.1 6.3 9.5



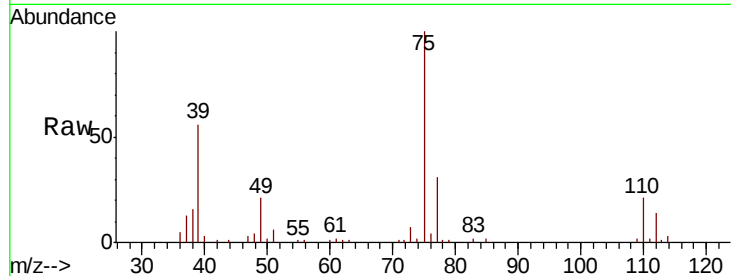


#39

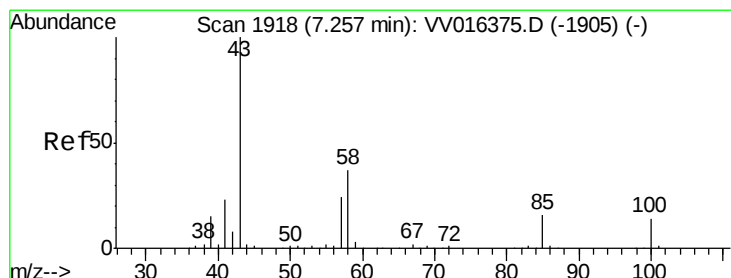
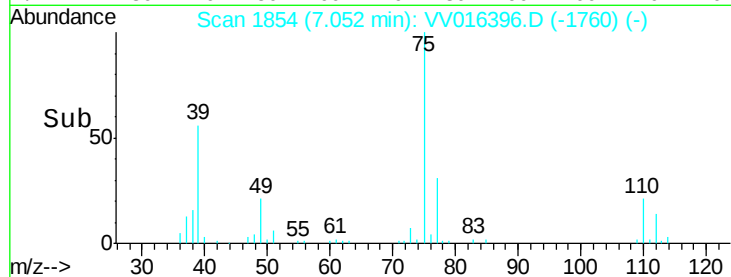
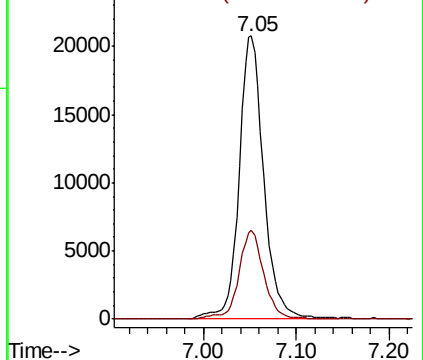
cis-1,3-Dichloropropene  
Concen: 5.237 ug/L  
RT: 7.05 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 75 Resp: 38275  
Ion Ratio Lower Upper  
75 100  
77 31.3 22.0 41.0



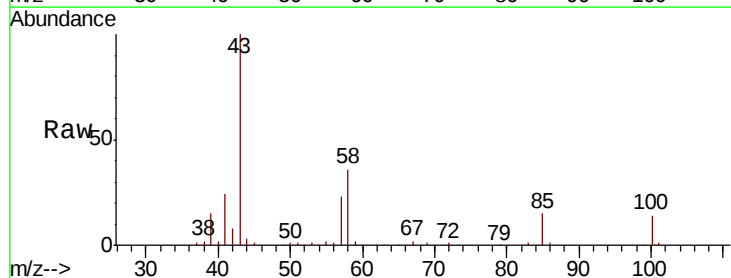
Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0



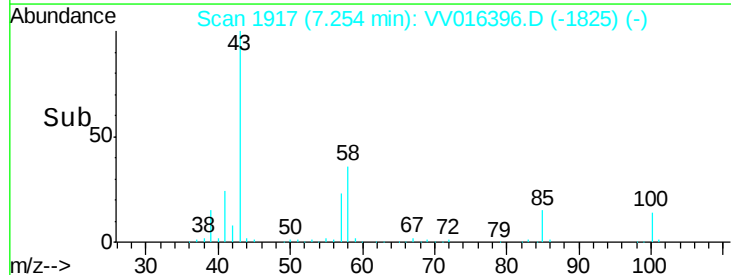
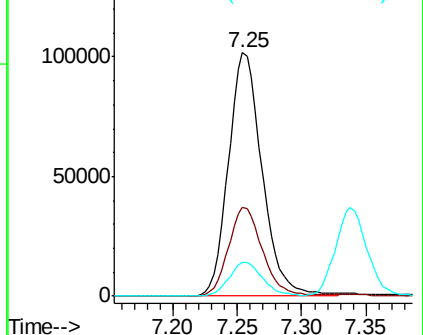
#40

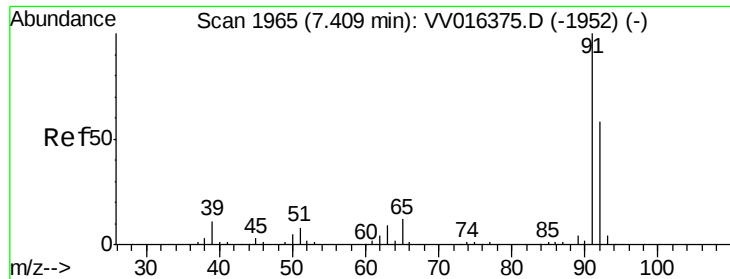
4-Methyl-2-pentanone  
Concen: 55.305 ug/L  
RT: 7.25 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 43 Resp: 184804  
Ion Ratio Lower Upper  
43 100  
58 36.7 29.5 44.3  
100 13.8 11.0 16.6



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.498 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

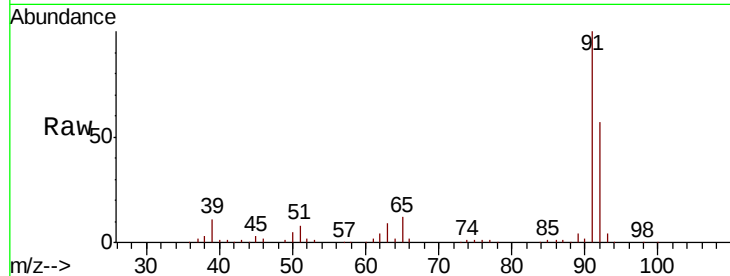
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 127885

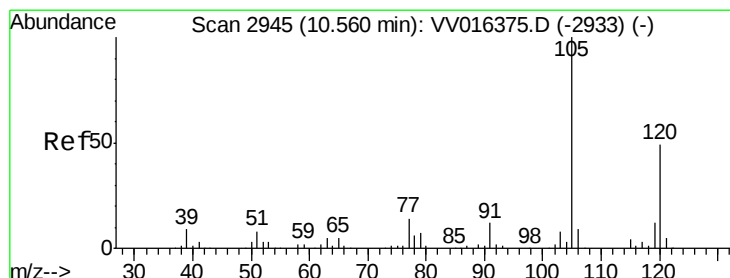
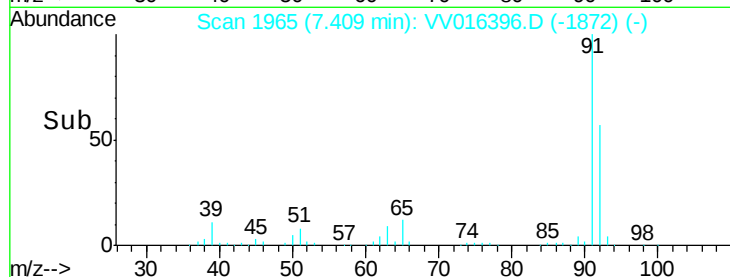
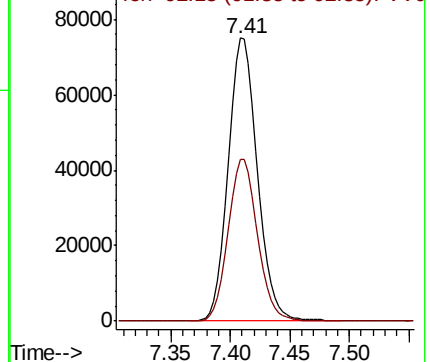
Ion Ratio Lower Upper

91 100

92 57.1 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV016375.D (-1952) (-)



#43

1,3,5-Trimethylbenzene

Concen: 5.402 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV016396.D

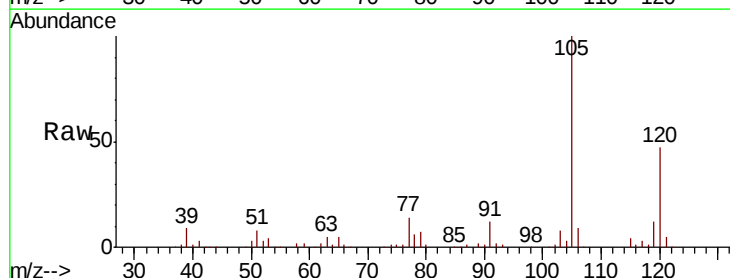
Acq: 31 May 2020 18:38

Tgt Ion:105 Resp: 111459

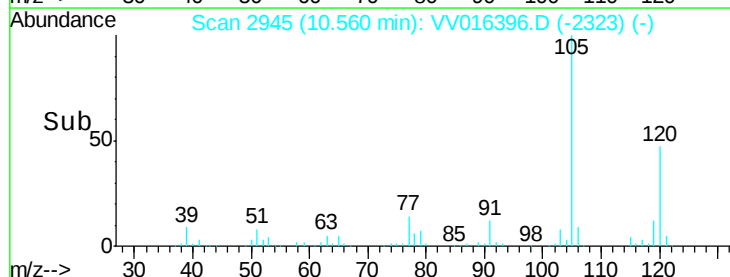
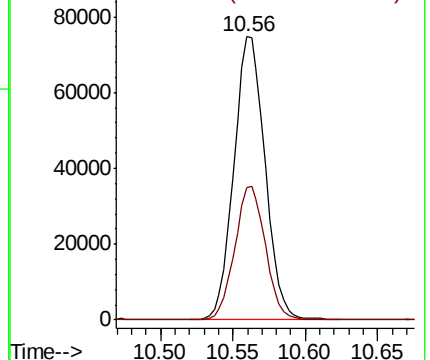
Ion Ratio Lower Upper

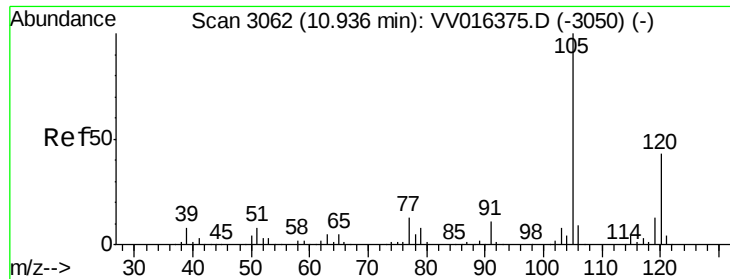
105 100

120 46.5 37.5 56.3



Abundance Ion 105.00 (104.70 to 105.70): VV016375.D (-2933) (-)

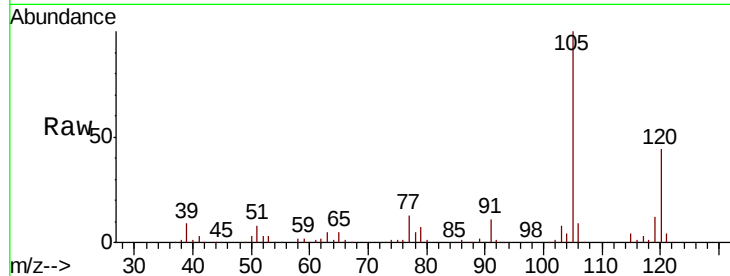




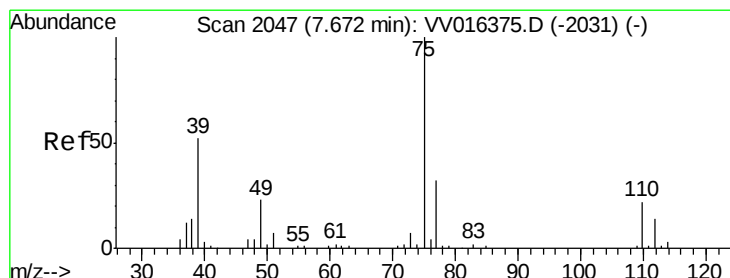
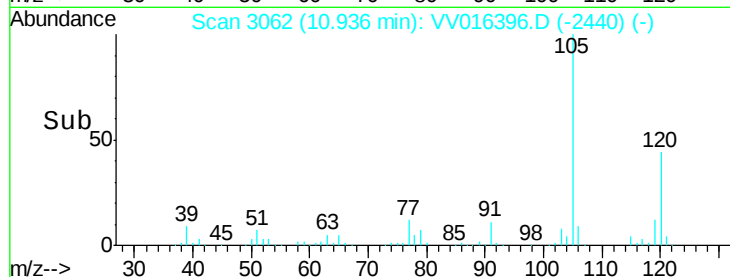
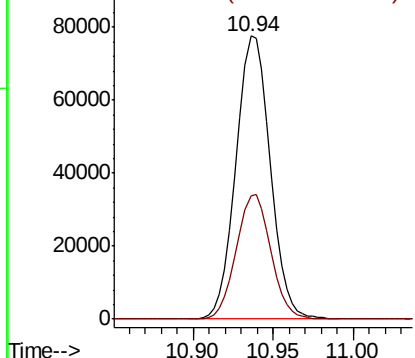
#44  
1,2,4-Trimethylbenzene  
Concen: 5.391 ug/L  
RT: 10.94 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:105 Resp: 113324  
Ion Ratio Lower Upper  
105 100  
120 44.3 35.5 53.3

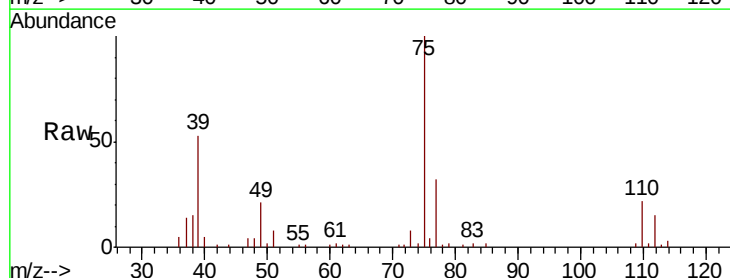


Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

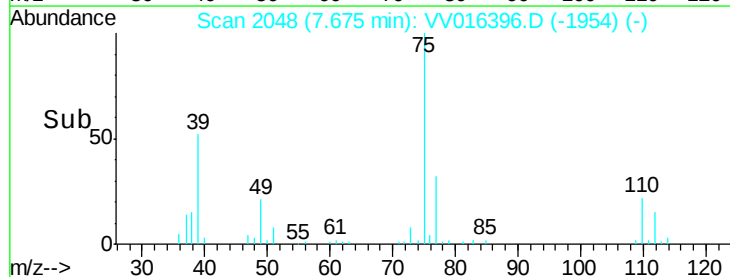
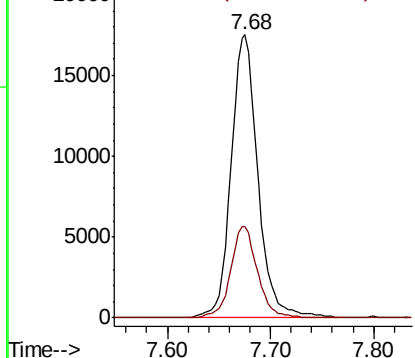


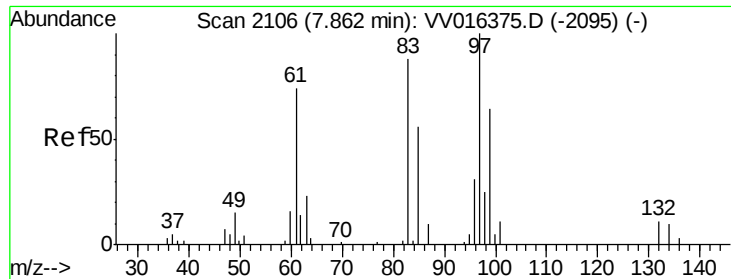
#46  
trans-1,3-Dichloropropene  
Concen: 5.259 ug/L  
RT: 7.68 min Scan# 2048  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 75 Resp: 31755  
Ion Ratio Lower Upper  
75 100  
77 32.3 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0

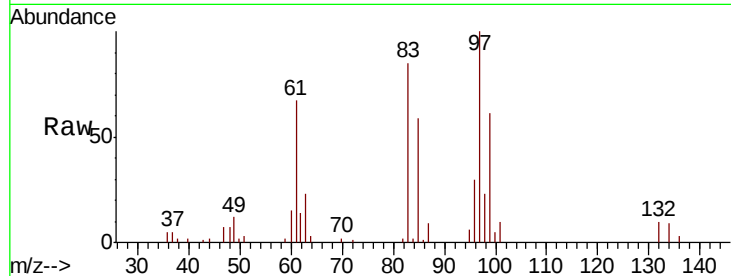




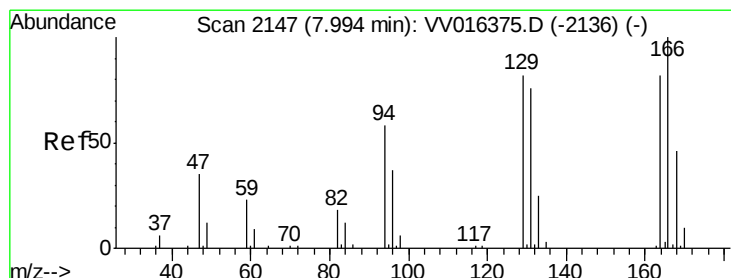
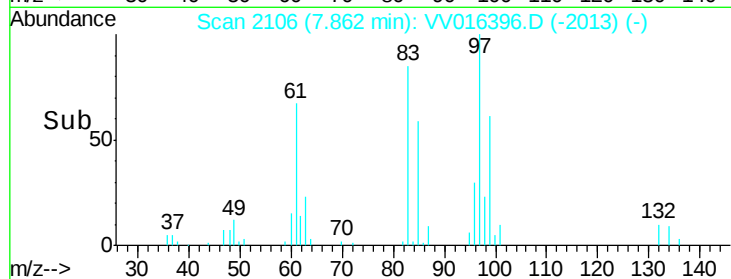
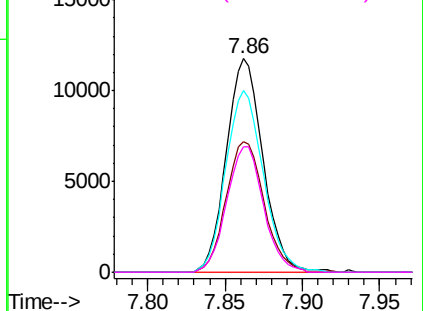
#47  
 1,1,2-Trichloroethane  
 Concen: 5.461 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 19327 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.4  | 47.0  | 87.2  |
| 83       | 85.3  | 61.7  | 114.5 |
| 85       | 58.9  | 39.1  | 72.5  |

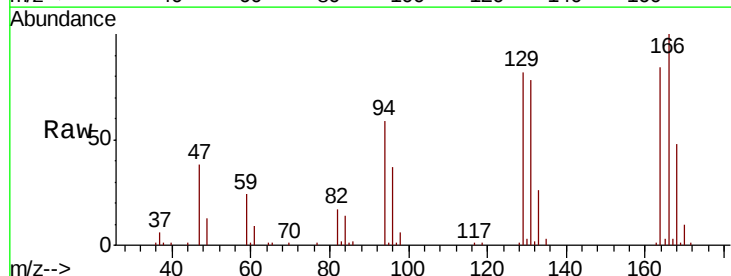


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 82.95 (82.65 to 83.65): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

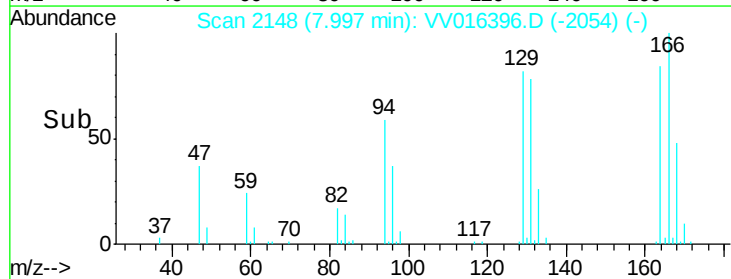
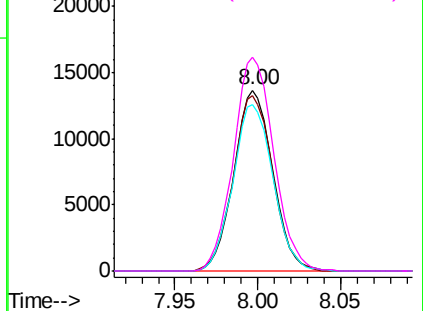


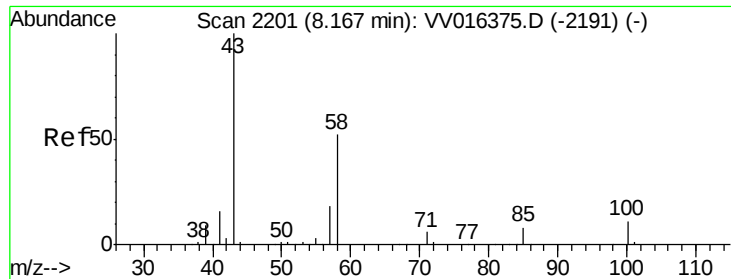
#49  
 Tetrachloroethene  
 Concen: 5.300 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 22305 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.1  | 72.2  | 134.0 |
| 131      | 92.5  | 65.8  | 122.2 |
| 166      | 118.4 | 88.3  | 163.9 |



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

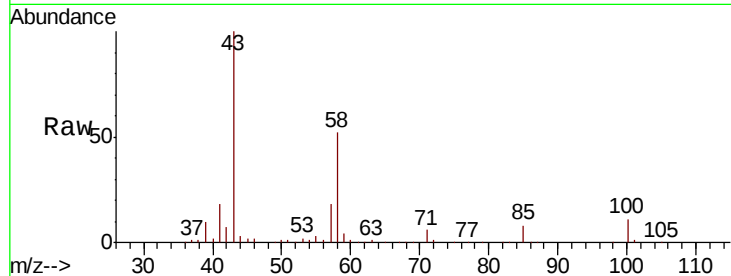




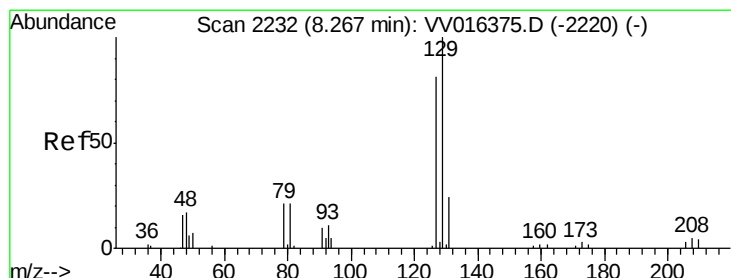
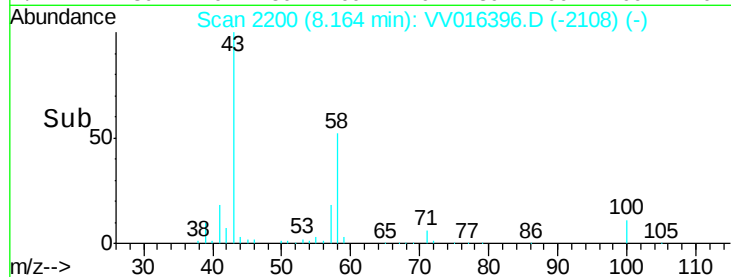
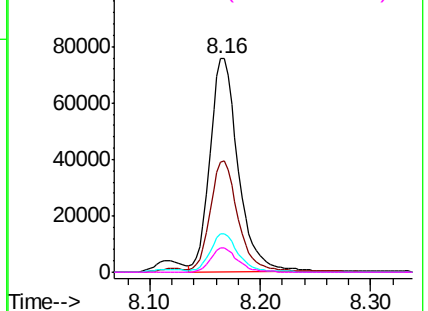
#50  
2-Hexanone  
Concen: 57.387 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 133752  
Ion Ratio Lower Upper  
43 100  
58 50.9 41.1 61.7  
57 18.3 14.2 21.4  
100 11.0 8.8 13.2

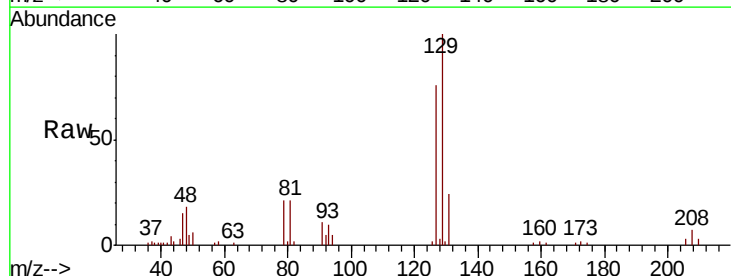


Abundance Ion 43.05 (42.75 to 43.75): VV016396.D (-2108) (-)  
Ion 58.05 (57.75 to 58.75): VV016396.D (-2108) (-)  
Ion 57.20 (56.90 to 57.90): VV016396.D (-2108) (-)  
Ion 100.15 (99.85 to 100.85): VV016396.D (-2108) (-)

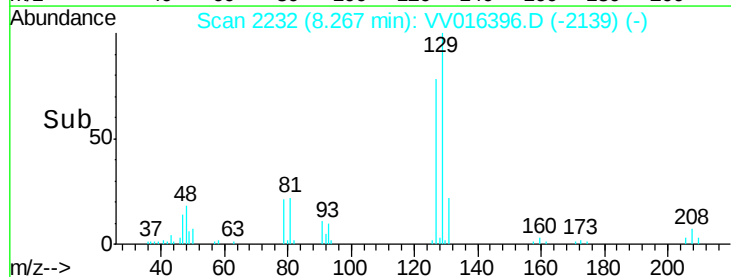
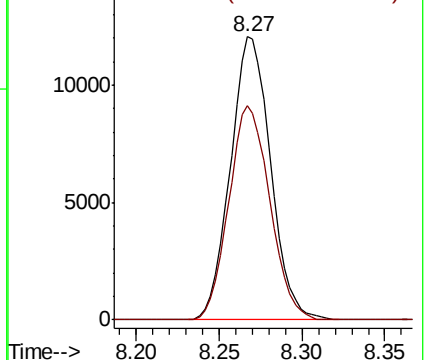


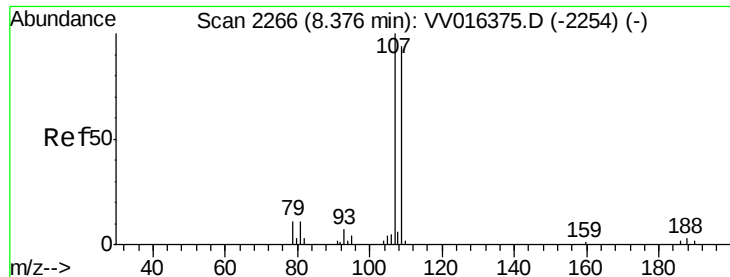
#51  
Dibromochloromethane  
Concen: 5.495 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 129 Resp: 20332  
Ion Ratio Lower Upper  
129 100  
127 75.7 57.0 105.8



Abundance Ion 128.95 (128.65 to 129.65): VV016396.D (-2139) (-)  
Ion 126.90 (126.60 to 127.60): VV016396.D (-2139) (-)

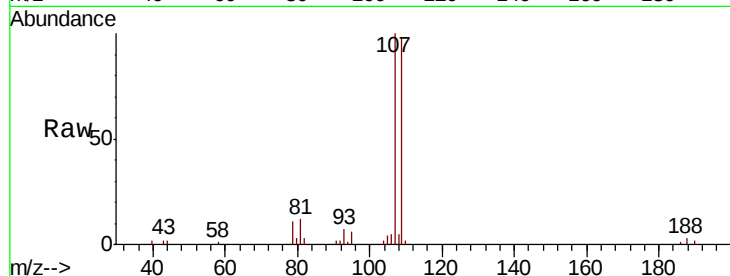




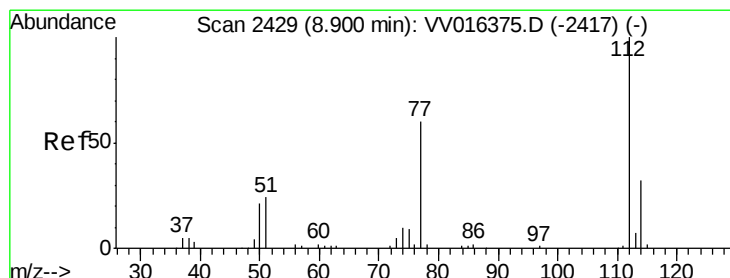
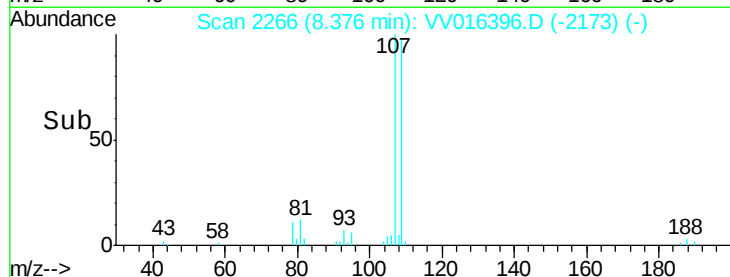
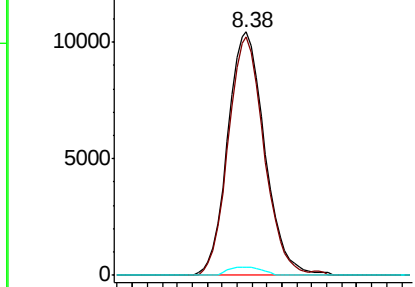
#52  
 1,2-Dibromoethane  
 Concen: 5.372 ug/L  
 RT: 8.38 min Scan# 2266  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion:107 Resp: 17969  
 Ion Ratio Lower Upper  
 107 100  
 109 97.9 65.9 122.3  
 188 3.3 3.0 4.4

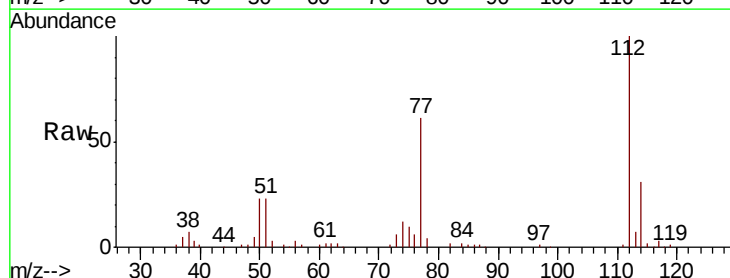


Abundance Ion 106.95 (106.65 to 107.65): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 187.90 (187.60 to 188.60): V

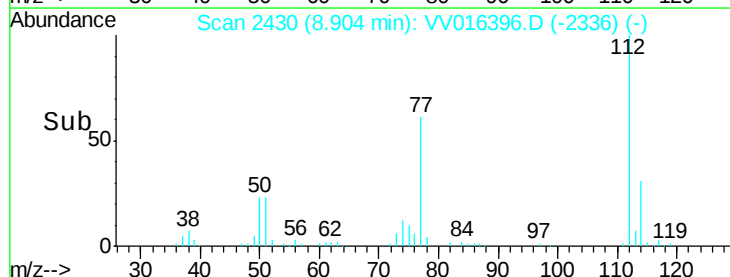
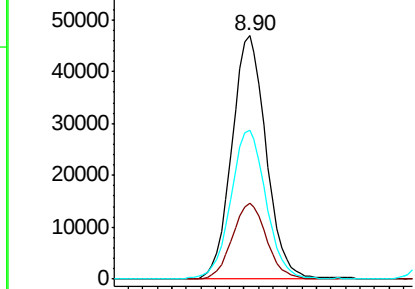


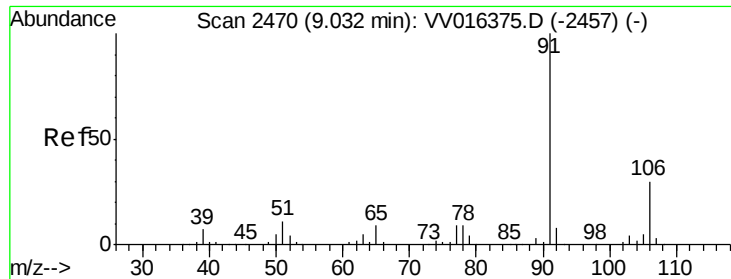
#53  
 Chlorobenzene  
 Concen: 5.257 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion:112 Resp: 76756  
 Ion Ratio Lower Upper  
 112 100  
 114 31.3 22.6 42.0  
 77 61.3 50.5 75.7



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): VV0

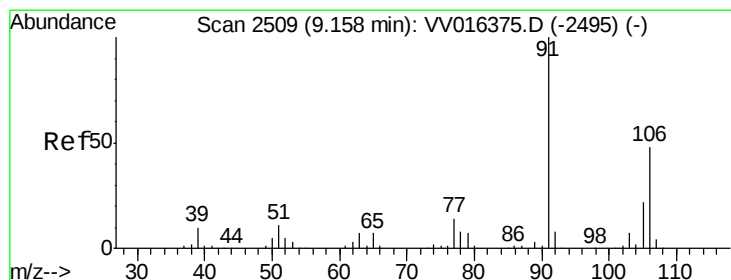
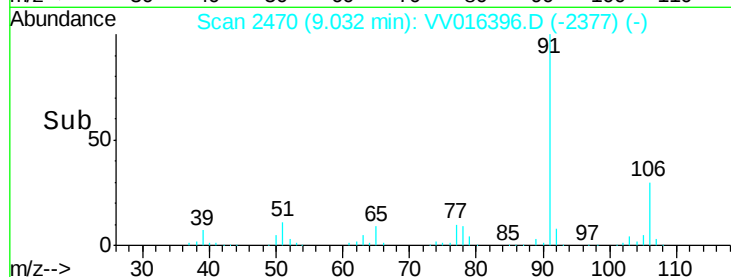
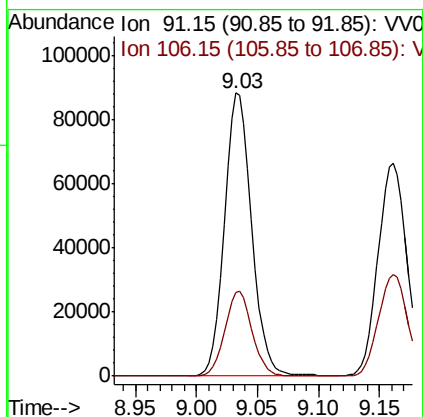
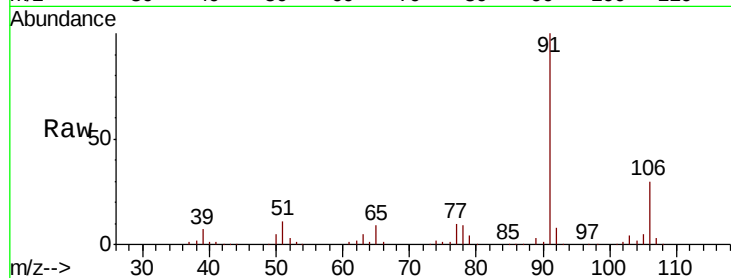




#54  
Ethylbenzene  
Concen: 5.397 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. -0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

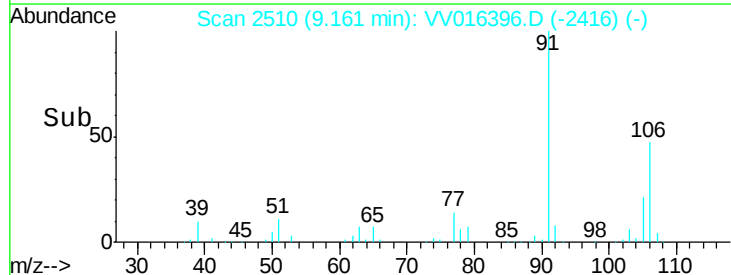
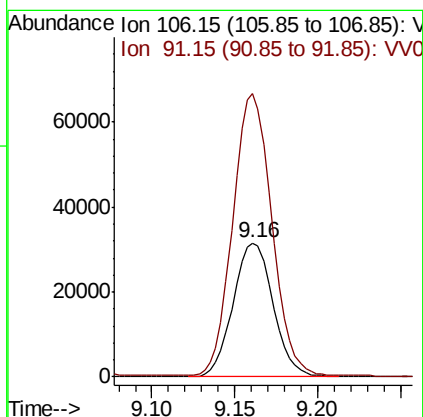
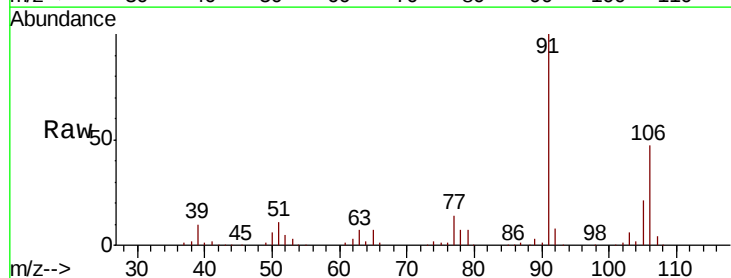
Instrument :  
MSVOA\_V  
ClientSampleId :

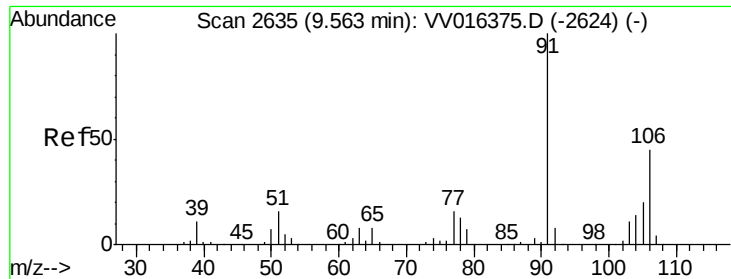
Tot Ion: 91 Resp: 138455  
Ion Ratio Lower Upper  
91 100  
106 29.7 21.4 39.8



#55  
m,p-xylene  
Concen: 5.516 ug/L  
RT: 9.16 min Scan# 2510  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion: 106 Resp: 52967  
Ion Ratio Lower Upper  
106 100  
91 210.9 146.6 272.2

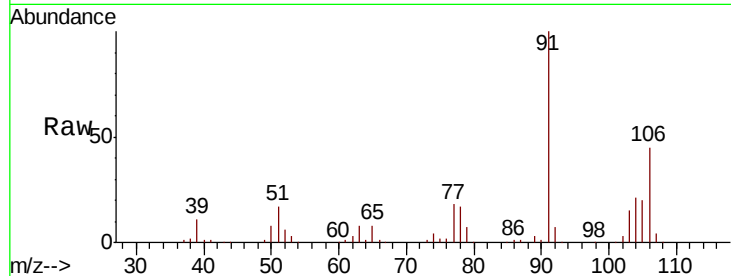




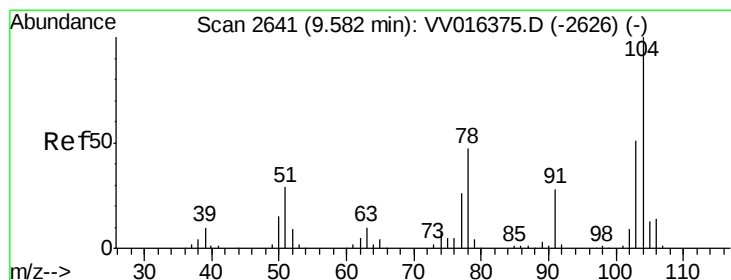
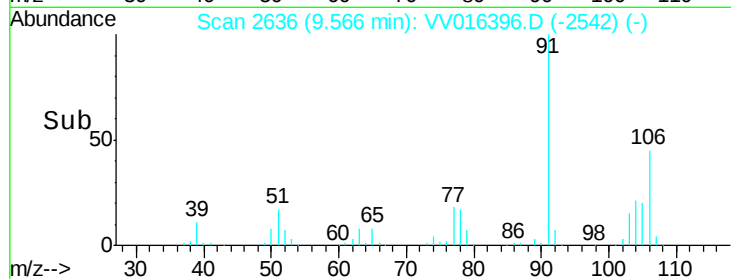
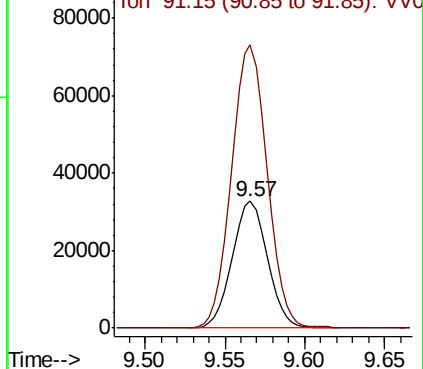
#56  
o-xylene  
Concen: 5.437 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 49174  
Ion Ratio Lower Upper  
106 100  
91 222.9 155.2 288.2

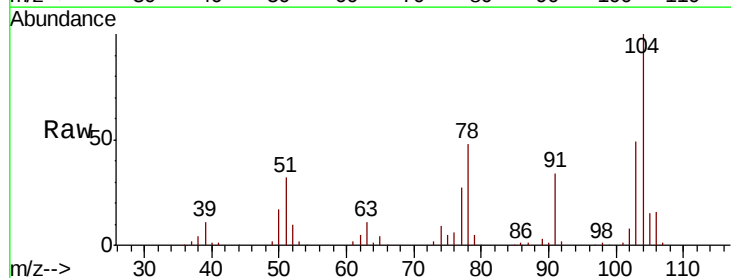


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

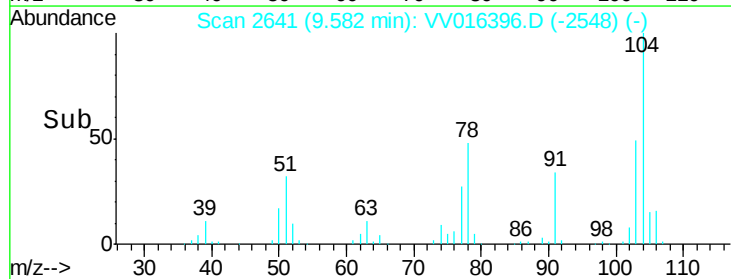
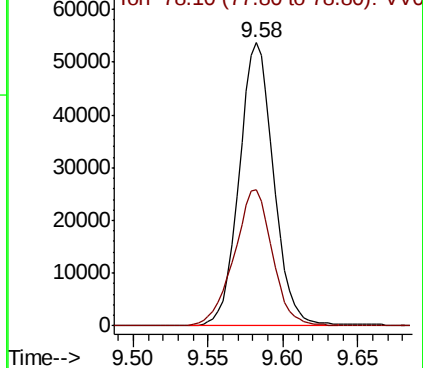


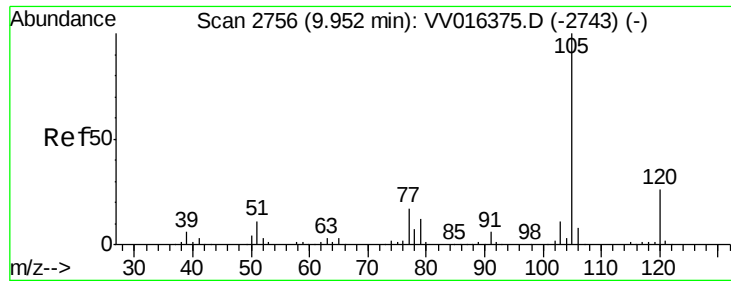
#57  
Styrene  
Concen: 5.566 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. -0.00 min  
Lab File: VV016396.D  
Acq: 31 May 2020 18:38

Tgt Ion:104 Resp: 85948  
Ion Ratio Lower Upper  
104 100  
78 47.9 32.6 60.6



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.391 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampleId :

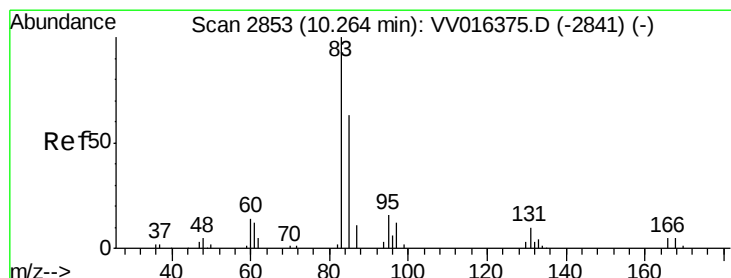
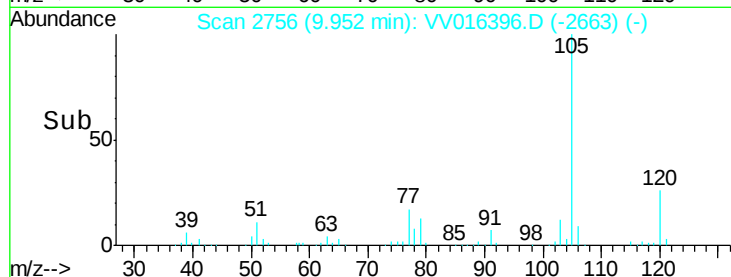
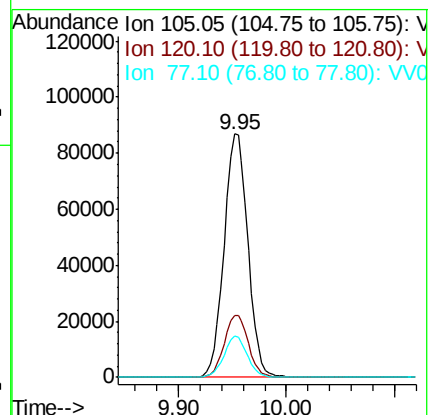
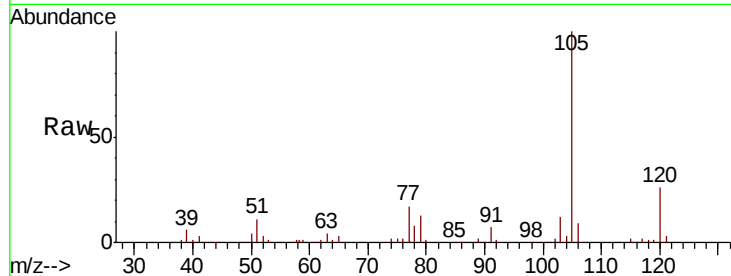
Tot Ion:105 Resp: 132870

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

77 16.5 13.4 20.2



#60

1,1,2,2-Tetrachloroethane

Concen: 5.361 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

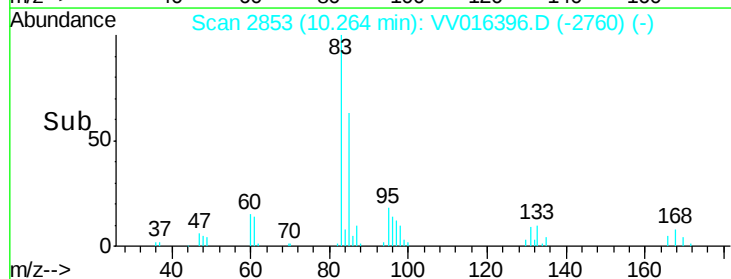
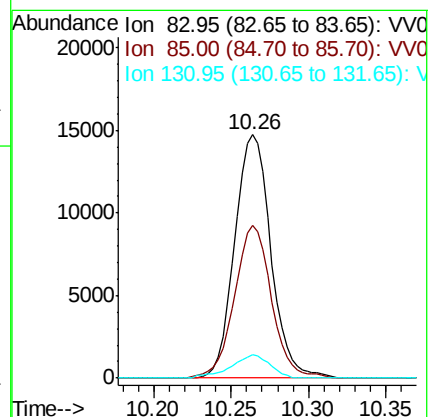
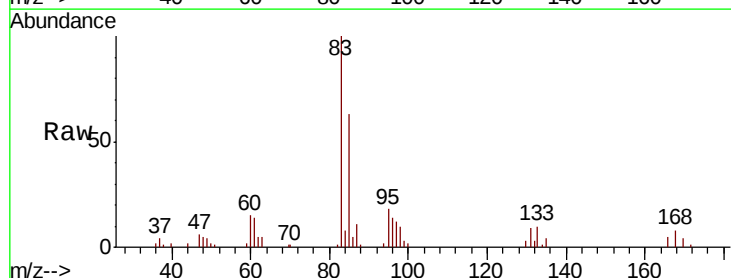
Tgt Ion: 83 Resp: 23934

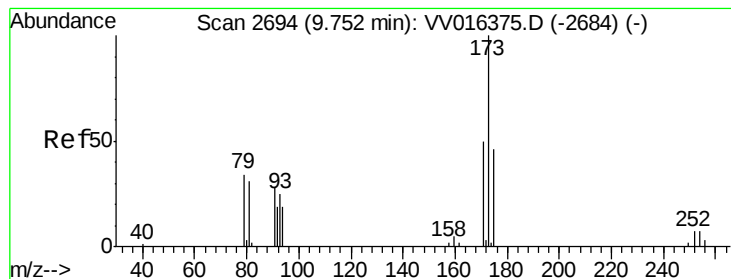
Ion Ratio Lower Upper

83 100

85 62.8 43.7 81.1

131 9.5 7.8 11.6





#62

Bromoform

Concen: 5.450 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

Instrument :  
MSVOA\_V  
ClientSampleId :

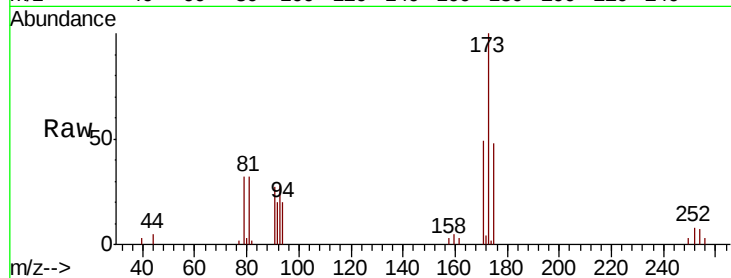
Tot Ion:173 Resp: 8425

Ion Ratio Lower Upper

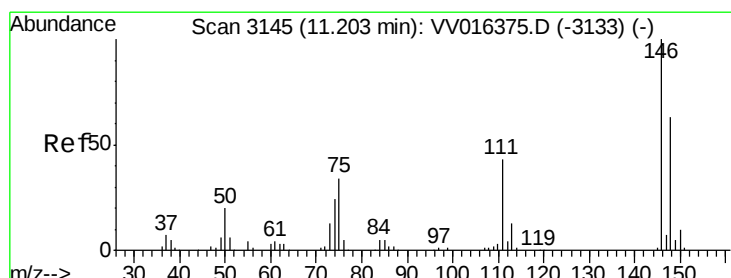
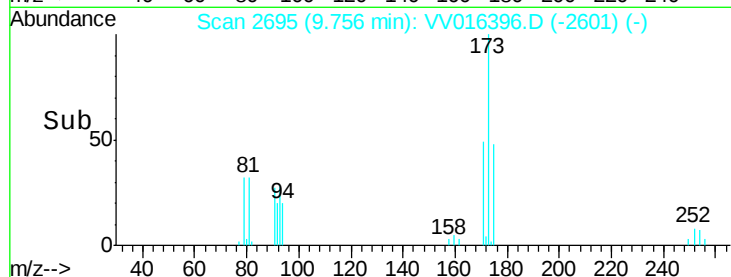
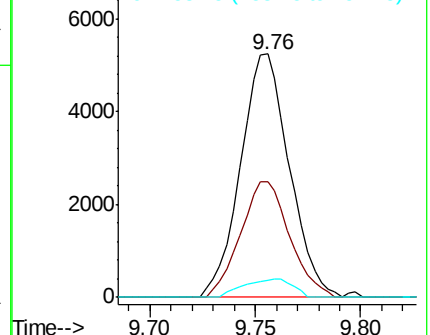
173 100

175 47.9 38.3 57.5

254 7.5 5.8 8.6



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 5.325 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

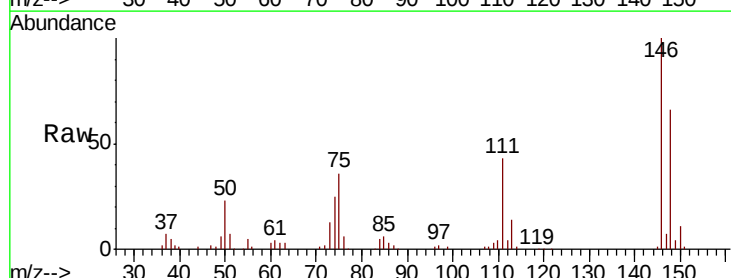
Tgt Ion:146 Resp: 60036

Ion Ratio Lower Upper

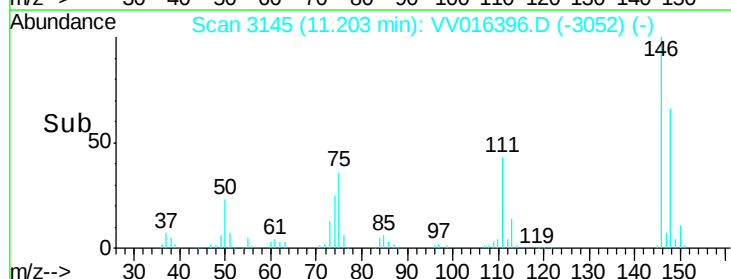
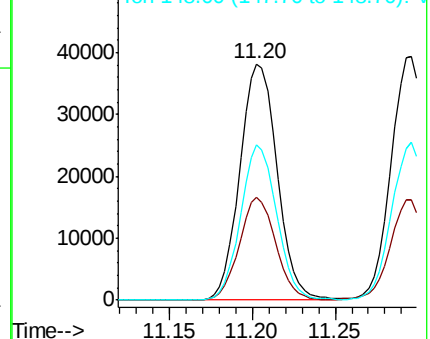
146 100

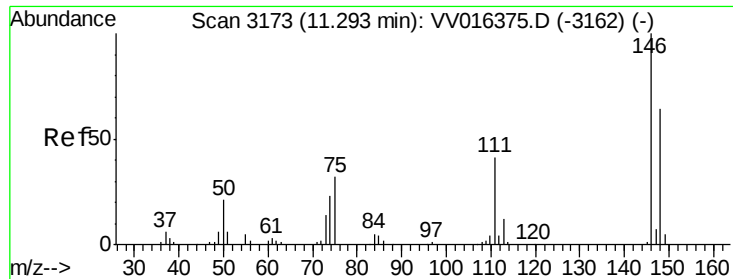
111 43.3 30.3 56.3

148 65.6 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 5.255 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016396.D

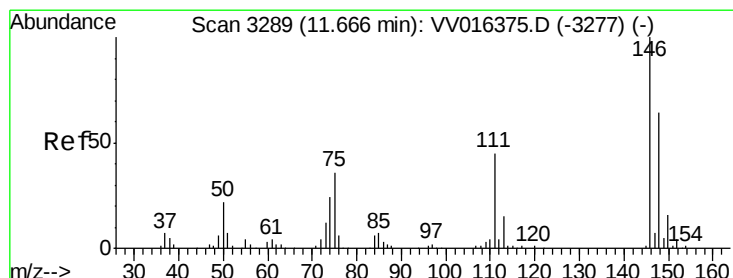
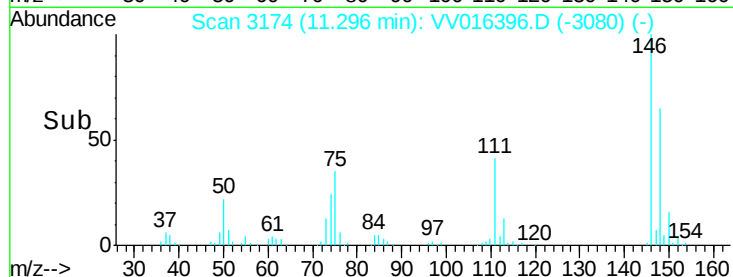
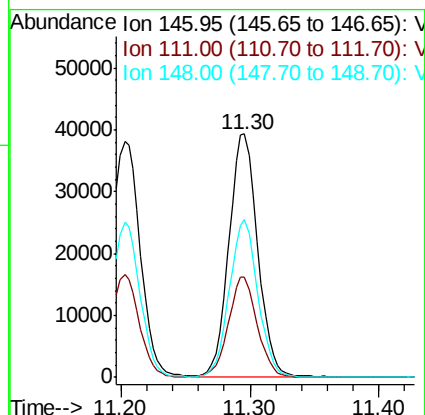
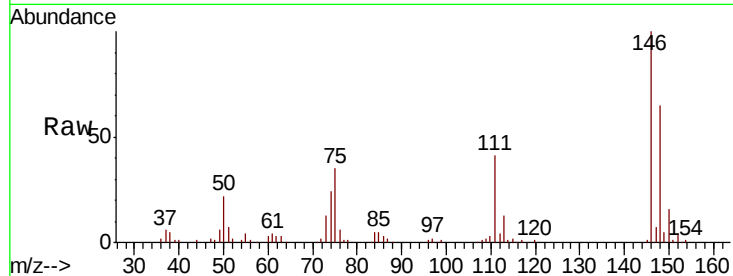
Acq: 31 May 2020 18:38

Instrument :

MSVOA\_V

ClientSampled :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:146 | Resp: | 61253       |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 40.9  | 29.6 55.0   |
| 148         | 64.6  | 44.7 83.1   |



#66

1,2-Dichlorobenzene

Concen: 5.280 ug/L

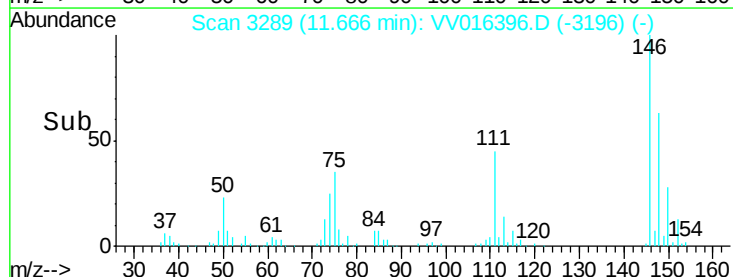
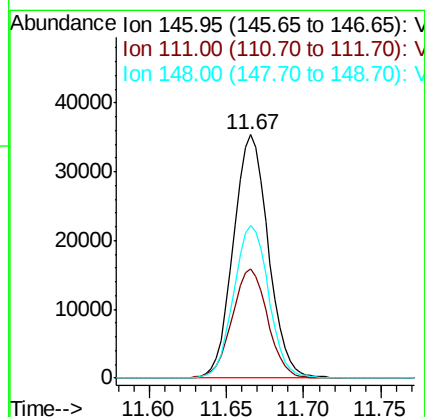
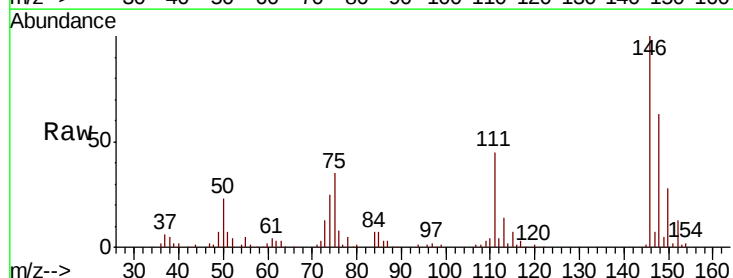
RT: 11.67 min Scan# 3289

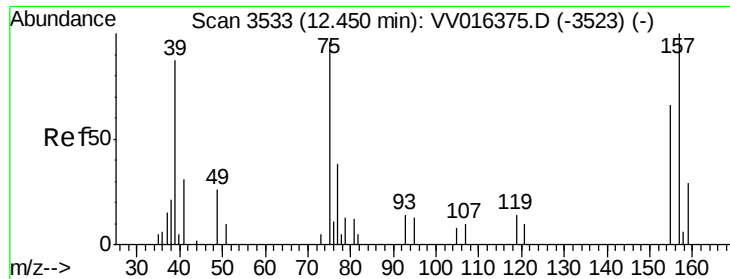
Delta R.T. -0.00 min

Lab File: VV016396.D

Acq: 31 May 2020 18:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 55404       |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 44.7  | 35.4 53.2   |
| 148         | 62.6  | 51.0 76.4   |

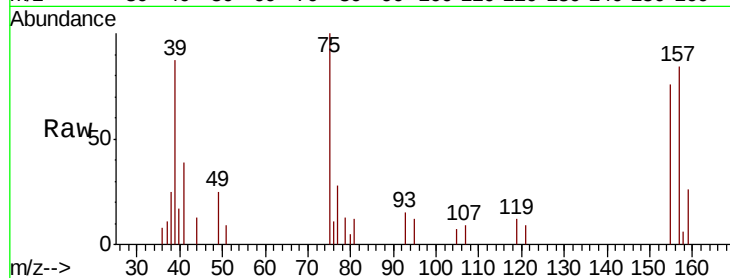




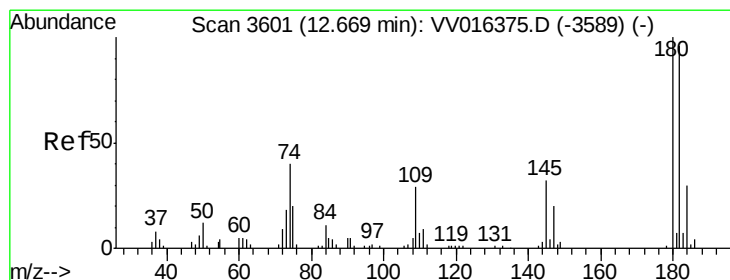
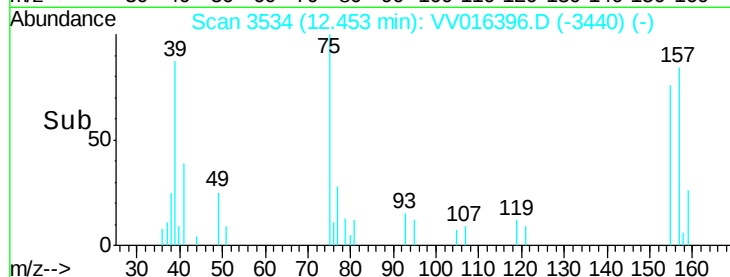
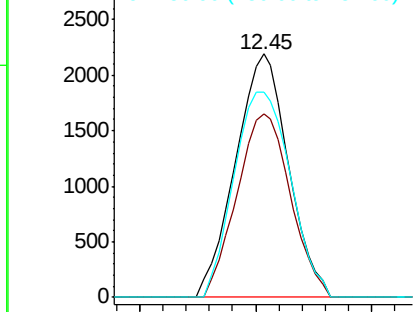
#67  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.054 ug/L  
 RT: 12.45 min Scan# 3534  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 3457  
 Ion Ratio Lower Upper  
 75 100  
 155 75.5 58.1 87.1  
 157 84.4 71.0 106.4

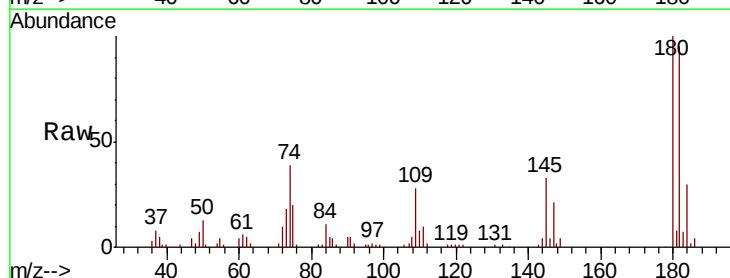


Abundance Ion 75.05 (74.75 to 75.75): VV016396.D (-3440) (-)  
 Ion 154.95 (154.65 to 155.65): VV016396.D (-3440) (-)  
 Ion 156.90 (156.60 to 157.60): VV016396.D (-3440) (-)

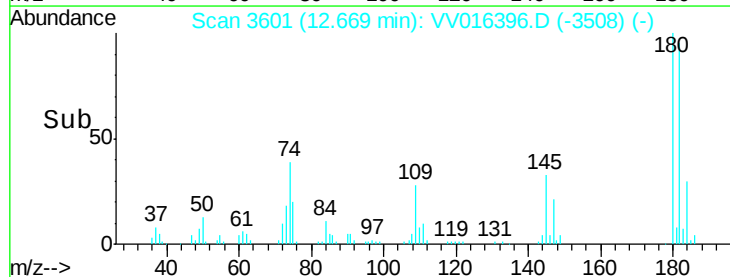
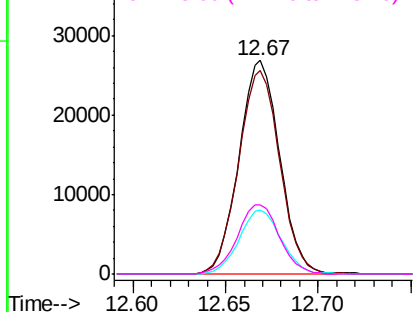


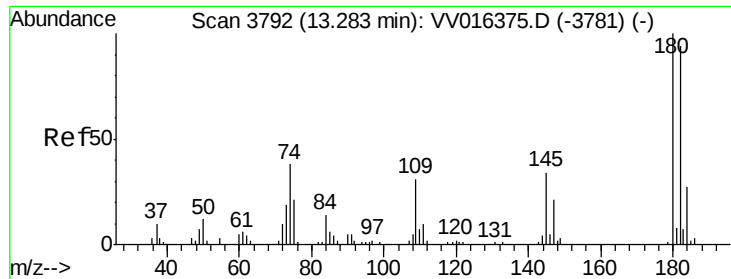
#68  
 1,3,5-Trichlorobenzene  
 Concen: 5.057 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion: 180 Resp: 41052  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 75.5 113.3  
 184 30.7 24.2 36.2  
 145 33.4 26.2 39.2



Abundance Ion 180.00 (179.70 to 180.70): VV016396.D (-3508) (-)  
 Ion 182.00 (181.70 to 182.70): VV016396.D (-3508) (-)  
 Ion 184.00 (183.70 to 184.70): VV016396.D (-3508) (-)  
 Ion 145.00 (144.70 to 145.70): VV016396.D (-3508) (-)

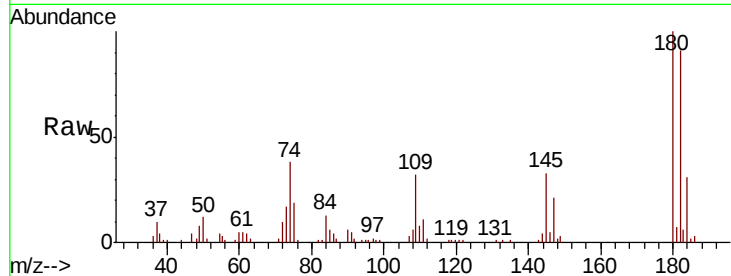




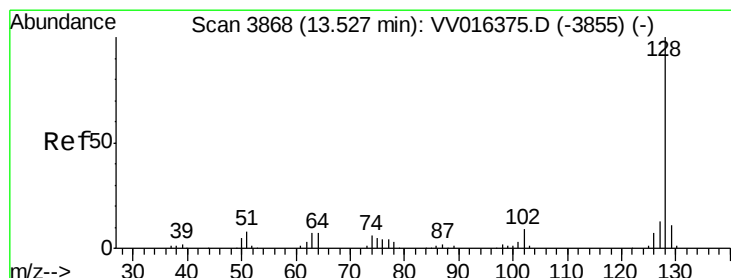
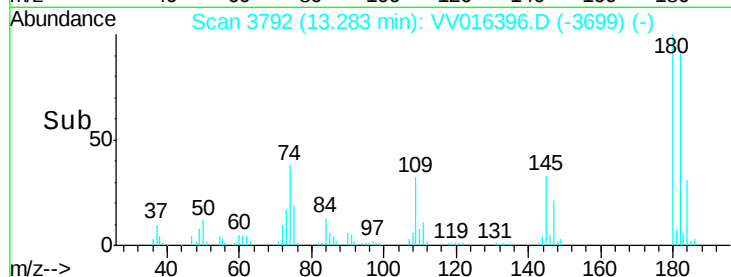
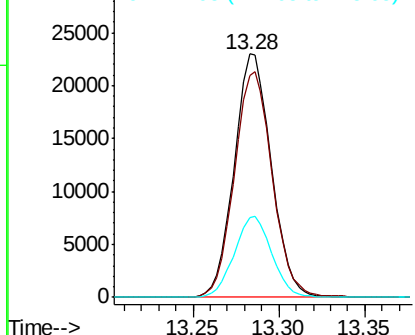
#69  
 1,2,4-trichlorobenzene  
 Concen: 4.941 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. -0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 34431  
 Ion Ratio Lower Upper  
 180 100  
 182 94.6 76.4 114.6  
 145 33.4 26.9 40.3

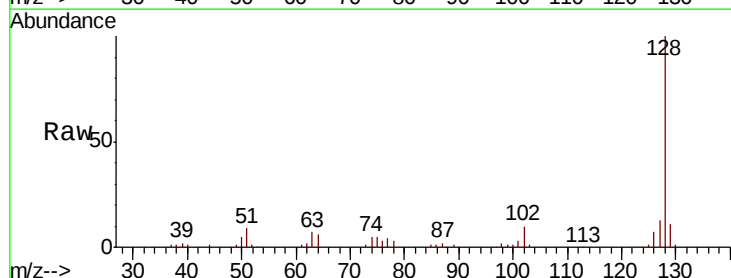


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

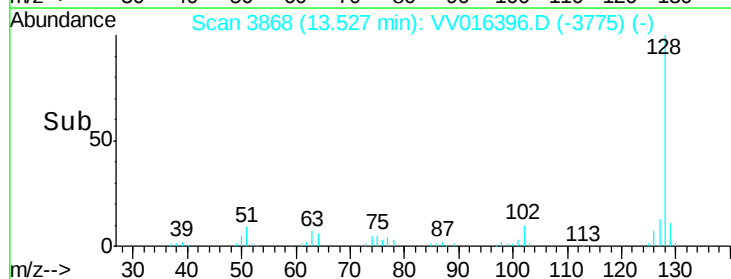
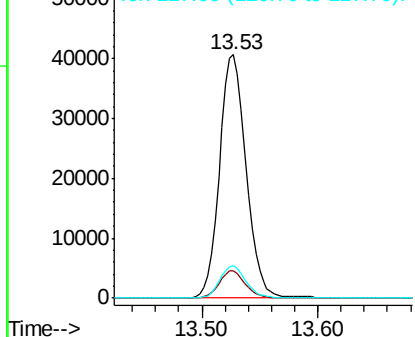


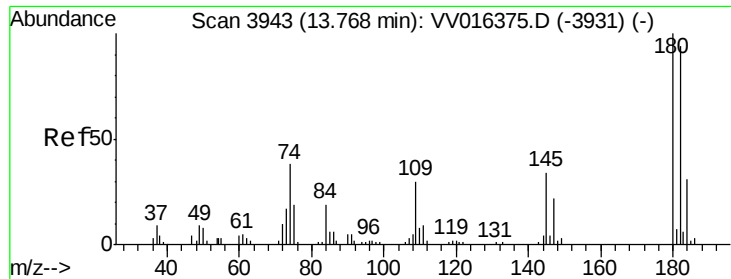
#70  
 Naphthalene  
 Concen: 3.871 ug/L  
 RT: 13.53 min Scan# 3868  
 Delta R.T. -0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Tgt Ion:128 Resp: 64600  
 Ion Ratio Lower Upper  
 128 100  
 129 10.8 8.6 12.8  
 127 13.0 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V

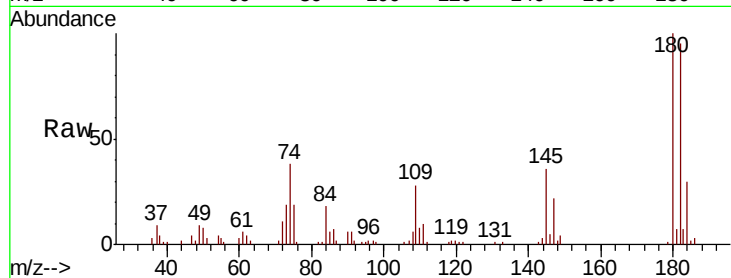




#71  
 1,2,3-Trichlorobenzene  
 Concen: 4.978 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV016396.D  
 Acq: 31 May 2020 18:38

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 30951  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 75.1 112.7  
 145 35.6 28.5 42.7



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 181.90 (181.60 to 182.60): V  
 Ion 144.95 (144.65 to 145.65): V

