

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\  
 Data File : VV018439.D  
 Acq On : 24 Sep 2020 19:45  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 25 04:48:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 04:36:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 406112   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 389458   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 208416   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 142960   | 43.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.38% |
| 7) Chloroethane-d5             | 1.58    | 69    | 114294   | 42.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 253406   | 41.74    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.48% |
| 21) 2-Butanone-d5              | 3.92    | 46    | 172914   | 85.36    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.36% |
| 24) Chloroform-d               | 4.38    | 84    | 239392   | 41.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.38% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 150332   | 40.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.68% |
| 32) Benzene-d6                 | 5.08    | 84    | 489843   | 43.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.88% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 152259   | 42.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.96% |
| 41) Toluene-d8                 | 7.34    | 98    | 452600   | 44.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.08% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 79293    | 44.05    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.10% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 123016   | 91.68    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 195249   | 43.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.82% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 186971   | 43.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.36% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 116354 | 39.291 | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 132922 | 41.107 | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 140068 | 42.241 | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 88860  | 43.844 | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 88705  | 42.704 | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 189392 | 41.512 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 119267 | 43.521 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 114695 | 43.013 | ug/L 94  |
| 13) Acetone                    | 2.20 | 43  | 120072 | 74.021 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 314355 | 38.527 | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 129066 | 44.274 | ug/L 98  |
| 16) Methylene chloride         | 2.52 | 84  | 129620 | 43.344 | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 120149 | 43.722 | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 392044 | 46.119 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 227596 | 43.804 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 132877 | 45.233 | ug/L 97  |
| 22) 2-Butanone                 | 4.00 | 43  | 173917 | 90.542 | ug/L 99  |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 04:36:20 2020  
 Response via : Initial Calibration

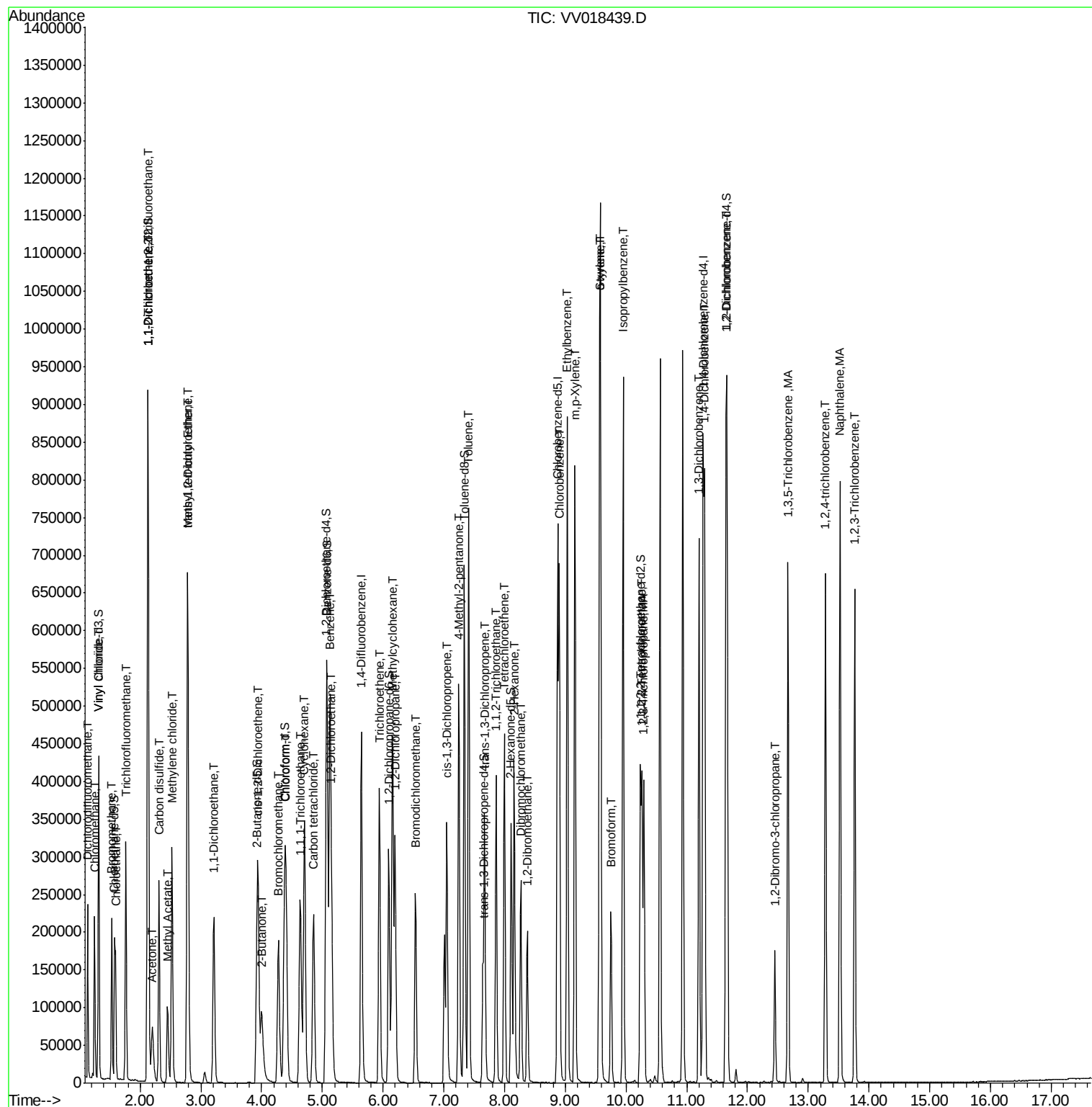
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 68781    | 44.751 | ug/L  | 98       |
| 25) Chloroform                 | 4.40  | 83   | 228919   | 43.344 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 173966   | 42.548 | ug/L  | 98       |
| 29) Cyclohexane                | 4.70  | 56   | 200689   | 44.625 | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane      | 4.64  | 97   | 199398   | 44.117 | ug/L  | 100      |
| 31) Carbon tetrachloride       | 4.86  | 117  | 170963   | 43.017 | ug/L  | 98       |
| 33) Benzene                    | 5.13  | 78   | 505795   | 45.424 | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 137289   | 45.260 | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.15  | 83   | 198426   | 43.446 | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 133862   | 45.367 | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 170441   | 44.388 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 212919   | 46.834 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 344147   | 96.140 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 547512   | 46.463 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 205208   | 46.359 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 126549   | 46.272 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.00  | 164  | 107044   | 45.008 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.16  | 43   | 262241   | 92.924 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.27  | 129  | 137689   | 44.852 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 133273   | 46.302 | ug/L  | 100      |
| 51) Chlorobenzene              | 8.90  | 112  | 353047   | 46.133 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.03  | 91   | 605481   | 47.064 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 230673   | 48.037 | ug/L  | 95       |
| 54) o-xylene                   | 9.56  | 106  | 222846   | 48.171 | ug/L  | 99       |
| 55) Styrene                    | 9.58  | 104  | 389040   | 48.383 | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.95  | 105  | 602975   | 48.362 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 191623   | 47.366 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 161619   | 46.569 | ug/L  | 100      |
| 61) Bromoform                  | 9.75  | 173  | 102190   | 45.641 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 292665   | 47.224 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 300988   | 47.250 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 291935   | 46.604 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 41631    | 47.096 | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 220174   | 45.065 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 206973   | 47.572 | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 611267   | 55.525 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 206071   | 48.089 | ug/L  | 100      |

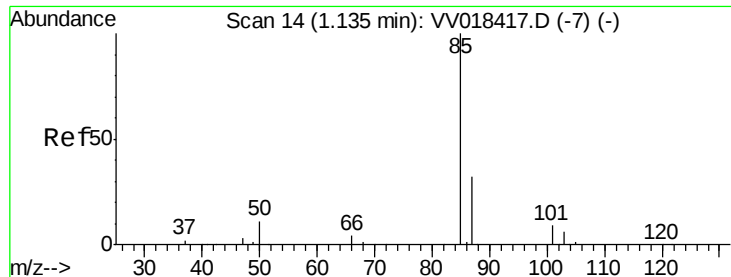
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 39.291 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

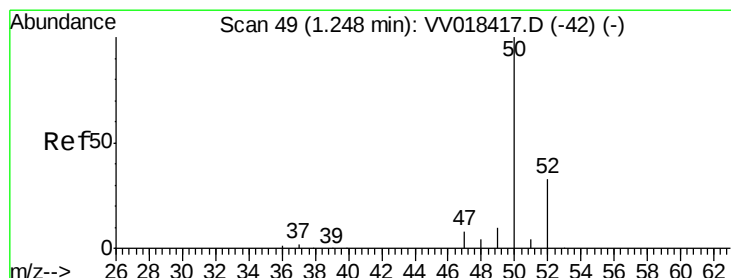
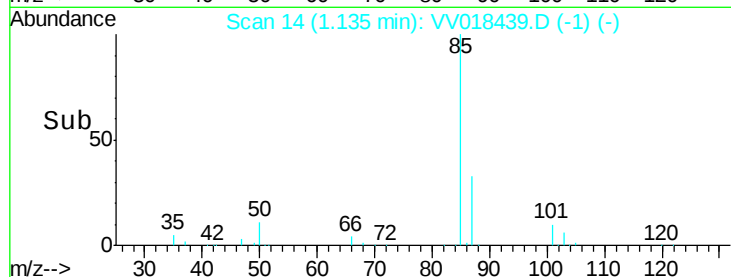
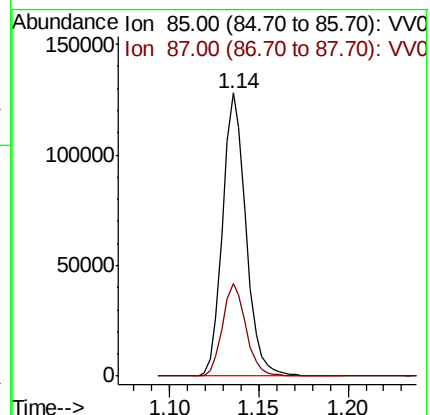
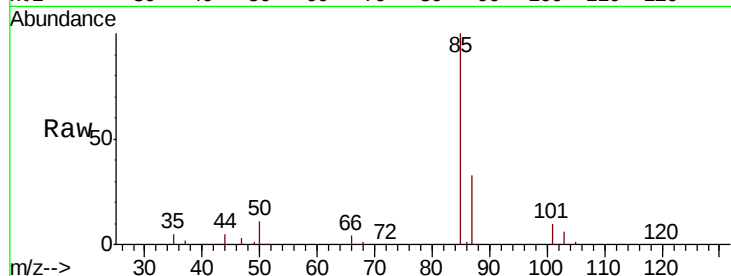
ClientSampled :

Tot Ion: 85 Resp: 116354

Ion Ratio Lower Upper

85 100

87 32.7 25.7 38.5



#3

Chloromethane

Concen: 41.107 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV018439.D

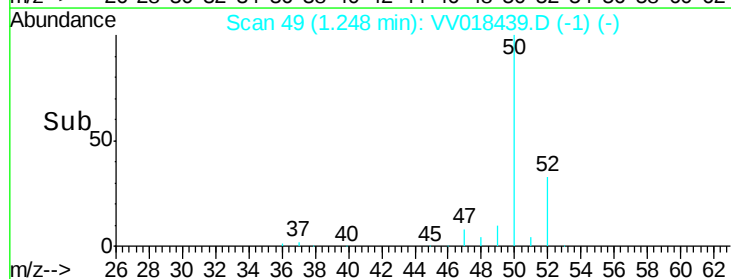
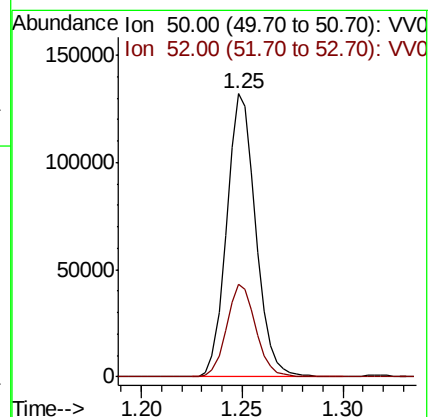
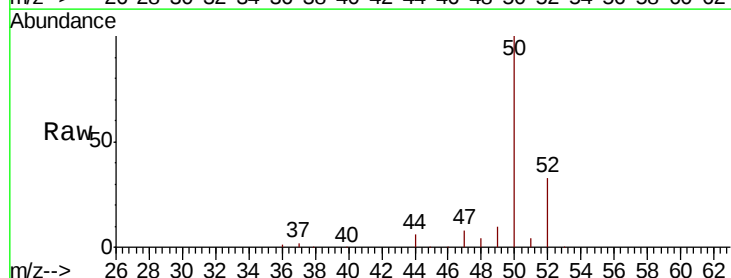
Acq: 24 Sep 2020 19:45

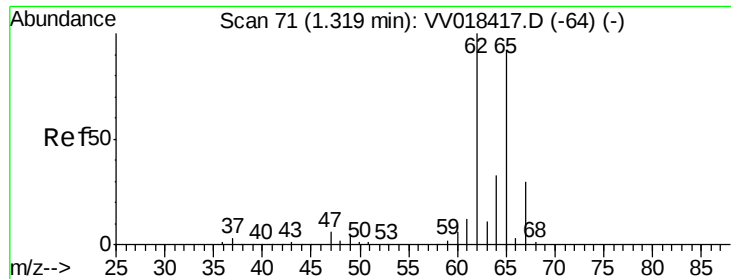
Tgt Ion: 50 Resp: 132922

Ion Ratio Lower Upper

50 100

52 32.6 22.7 42.3





#5

Vinyl chloride

Concen: 42.241 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

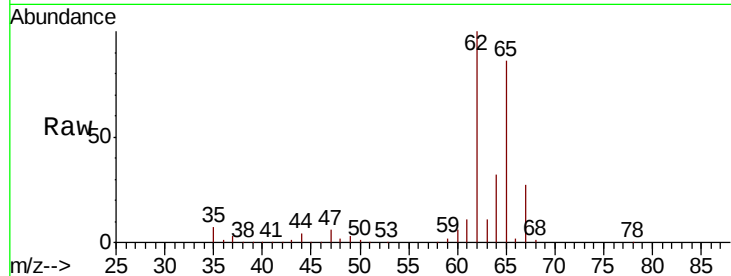
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 62 Resp: 140068

Ion Ratio Lower Upper

62 100

64 32.3 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

150000

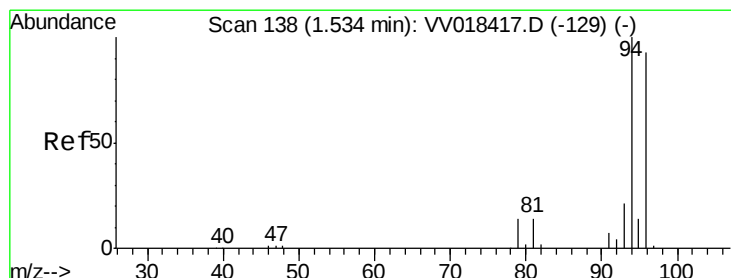
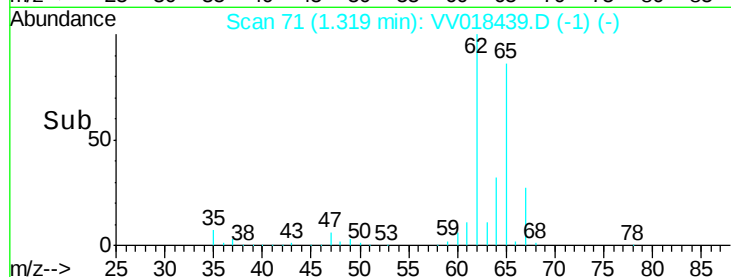
100000

50000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 43.844 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV018439.D

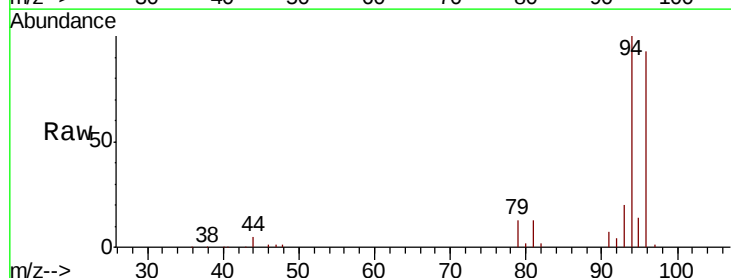
Acq: 24 Sep 2020 19:45

Tgt Ion: 94 Resp: 88860

Ion Ratio Lower Upper

94 100

96 93.4 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

80000

60000

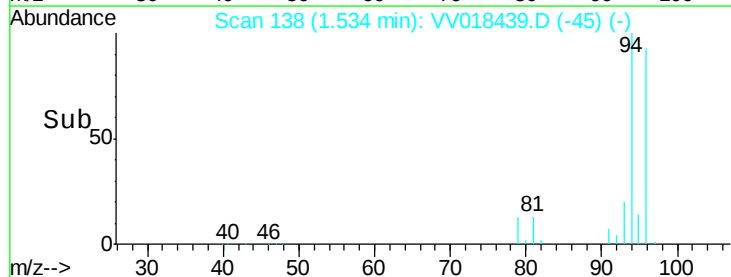
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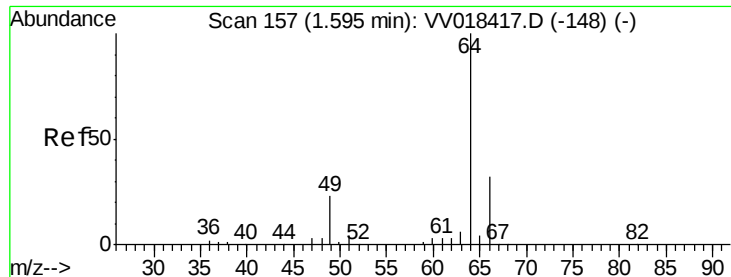
20000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 42.704 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

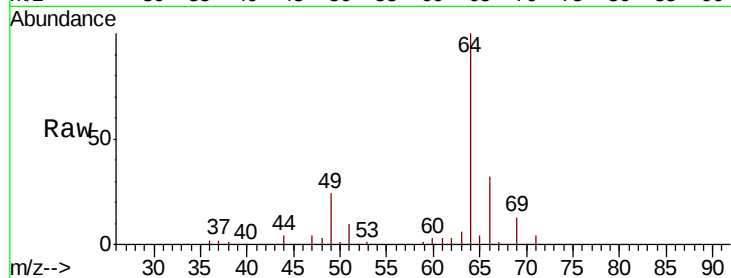
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 88705

Ion Ratio Lower Upper

64 100

66 32.1 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VV018417.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV018417.D (-148) (-)

1.60

80000

60000

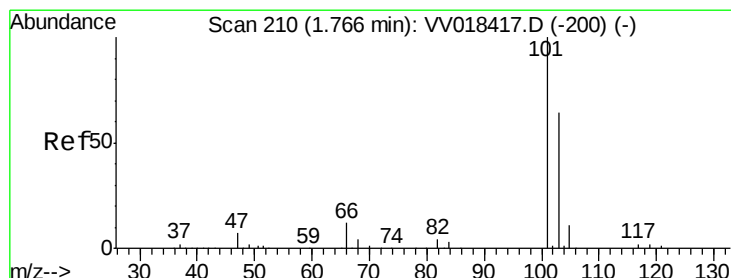
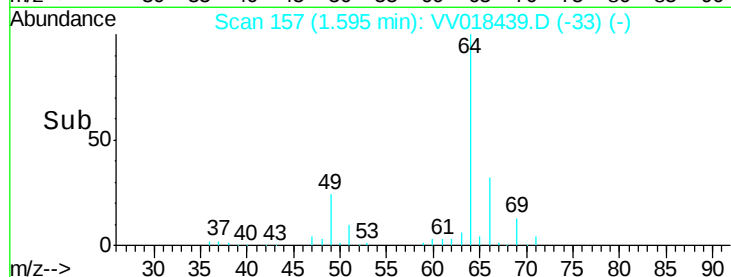
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 41.512 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV018439.D

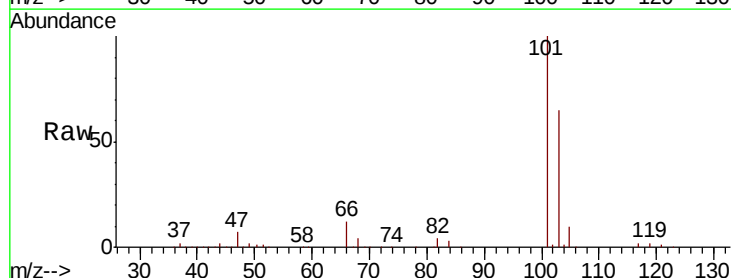
Acq: 24 Sep 2020 19:45

Tgt Ion:101 Resp: 189392

Ion Ratio Lower Upper

101 100

103 64.6 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV018417.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV018417.D (-200) (-)

1.77

150000

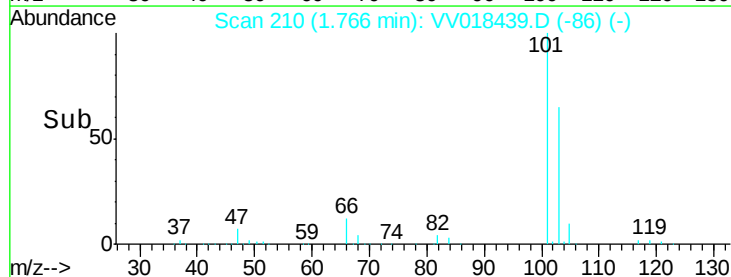
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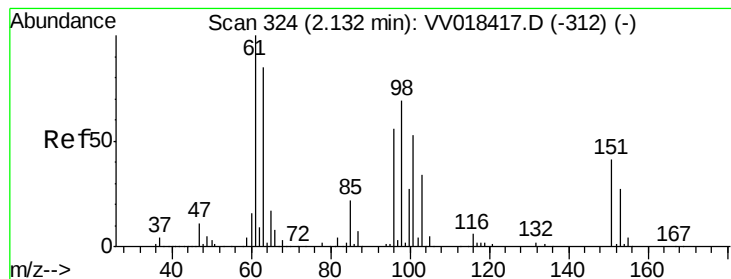
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0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 43.521 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

ClientSampleId :

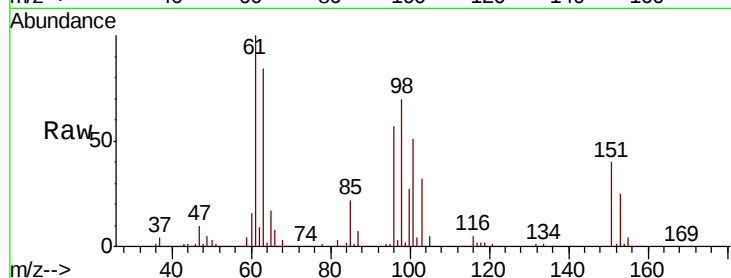
Tot Ion:101 Resp: 119267

Ion Ratio Lower Upper

101 100

85 41.6 33.5 50.3

151 76.5 62.2 93.2



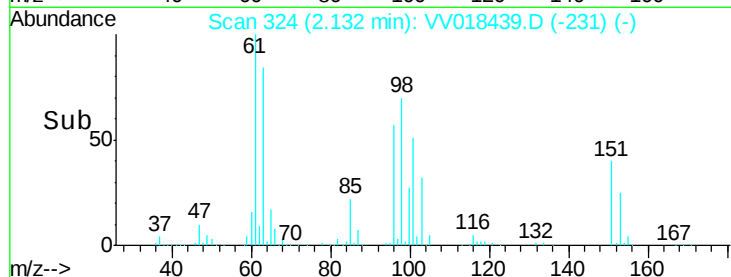
Abundance Ion 101.00 (100.70 to 101.70): VV018439.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV018439.D (-231) (-)

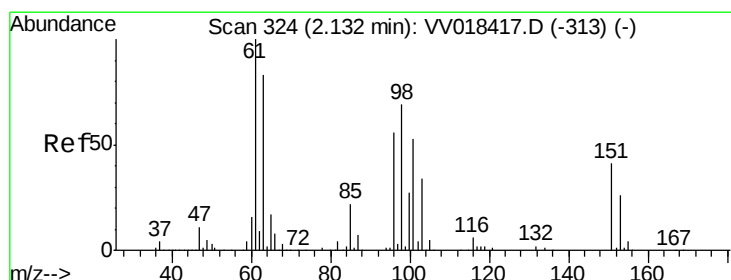
Ion 151.00 (150.70 to 151.70): VV018439.D (-231) (-)

2.13

Time-->



Time-->



#12

1,1-Dichloroethene

Concen: 43.013 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

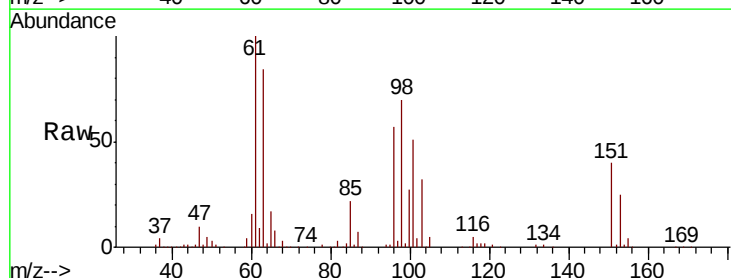
Tgt Ion: 96 Resp: 114695

Ion Ratio Lower Upper

96 100

61 175.0 122.9 228.3

63 147.6 91.9 170.7



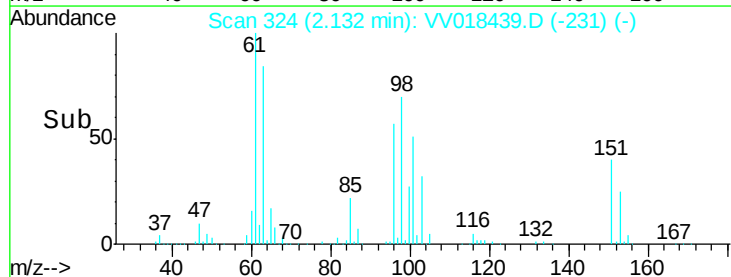
Abundance Ion 96.00 (95.70 to 96.70): VV018439.D (-231) (-)

Ion 61.00 (60.70 to 61.70): VV018439.D (-231) (-)

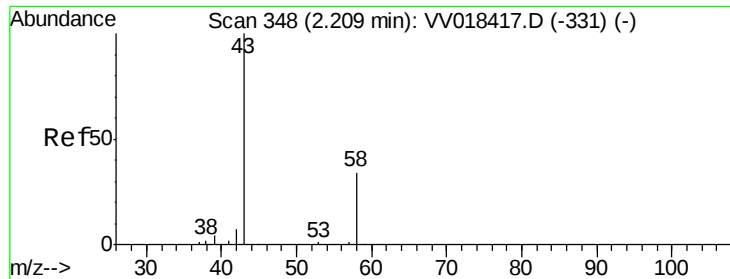
Ion 63.00 (62.70 to 63.70): VV018439.D (-231) (-)

2.13

Time-->



Time-->



#13

Acetone

Concen: 74.021 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.01 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

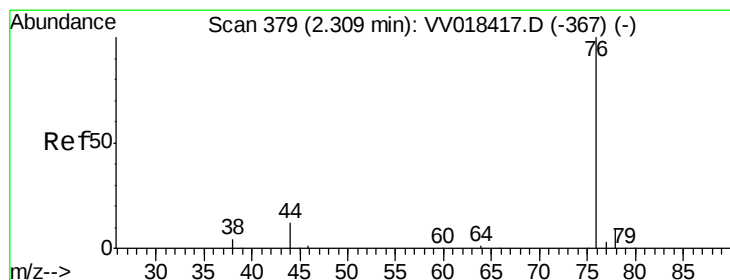
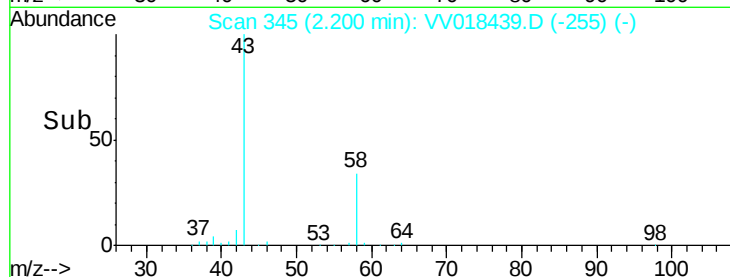
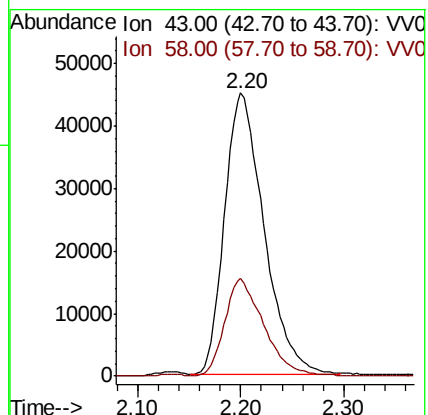
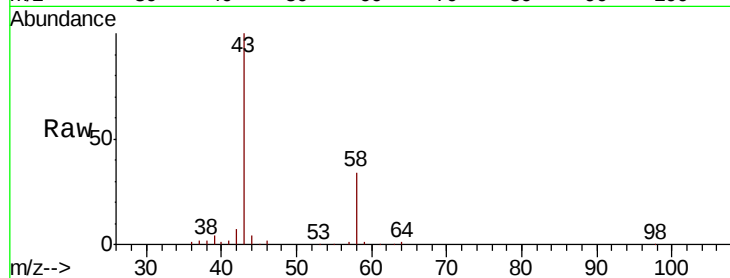
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 120072

Ion Ratio Lower Upper

43 100

58 34.5 0.0 67.4



#14

Carbon disulfide

Concen: 38.527 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV018439.D

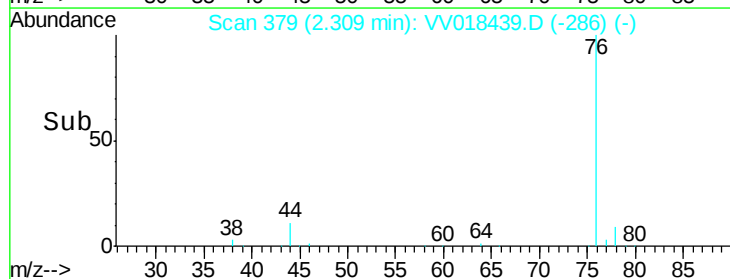
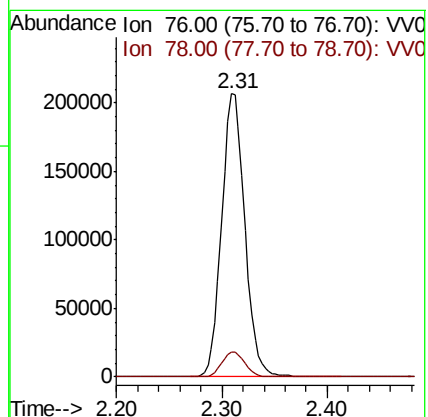
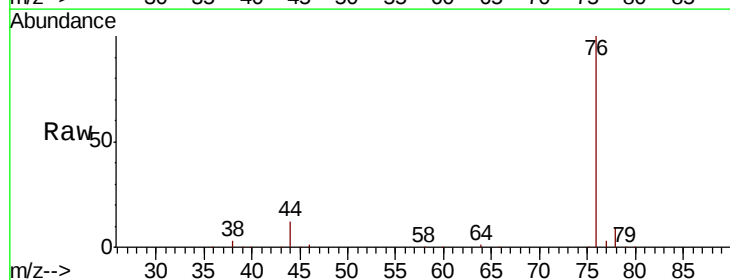
Acq: 24 Sep 2020 19:45

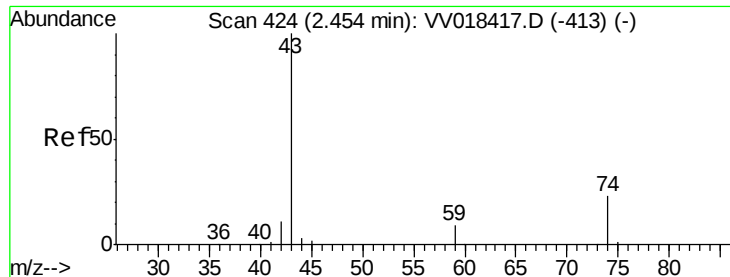
Tgt Ion: 76 Resp: 314355

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9





#15

Methvl Acetate

Concen: 44.274 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

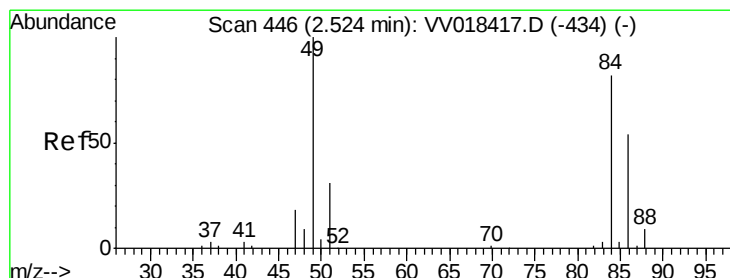
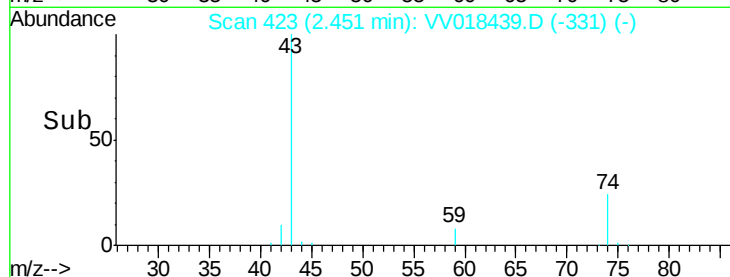
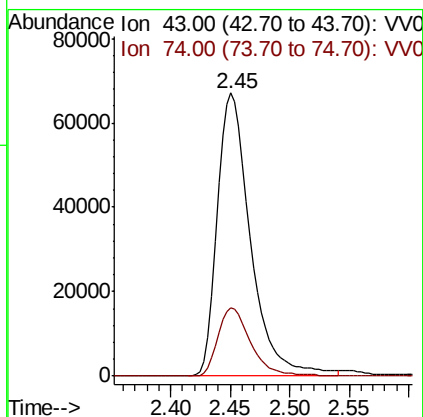
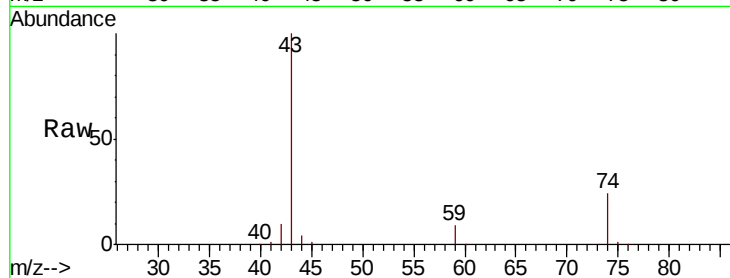
ClientSampleId :

Tot Ion: 43 Resp: 129066

Ion Ratio Lower Upper

43 100

74 24.2 18.4 27.6



#16

Methylene chloride

Concen: 43.344 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

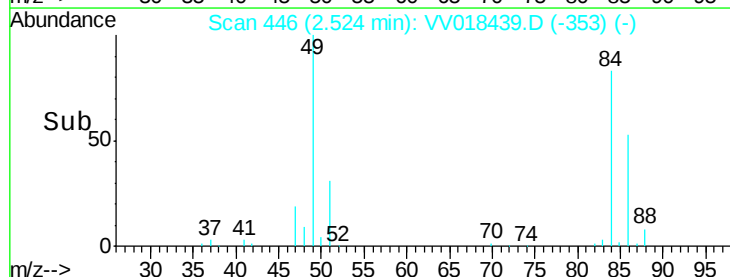
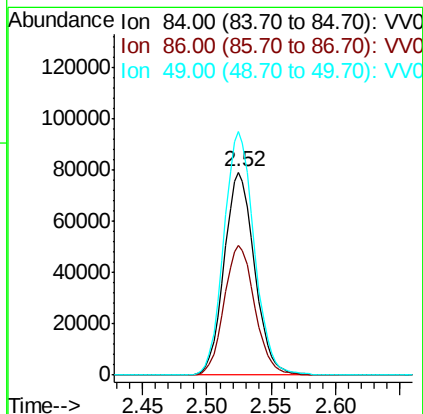
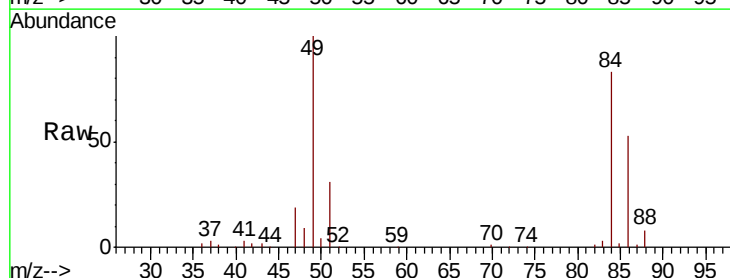
Tgt Ion: 84 Resp: 129620

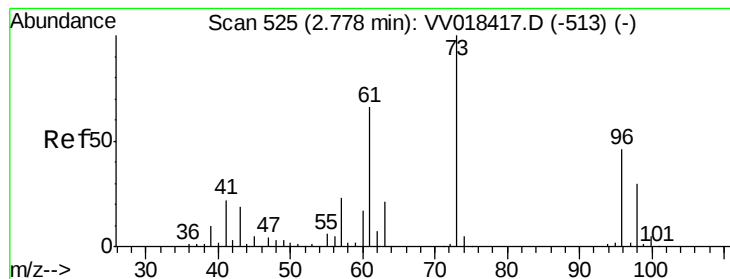
Ion Ratio Lower Upper

84 100

86 64.2 44.4 82.4

49 120.1 87.2 162.0





#17

trans-1,2-Dichloroethene

Concen: 43.722 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

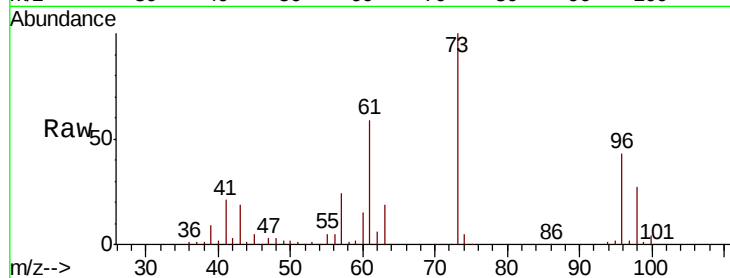
Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 96 Resp: 120149

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 139.6 | 100.7 | 186.9 |
| 98  | 62.8  | 45.2  | 84.0  |

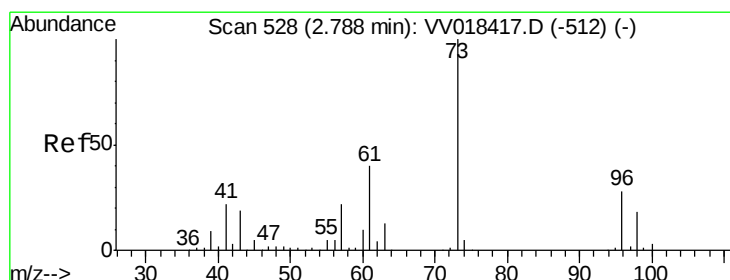
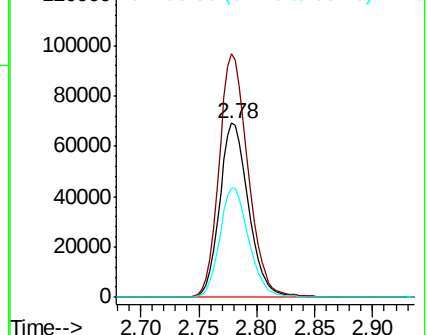
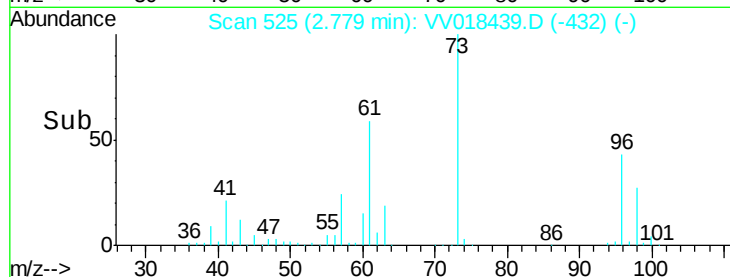


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 46.119 ug/L

RT: 2.78 min Scan# 527

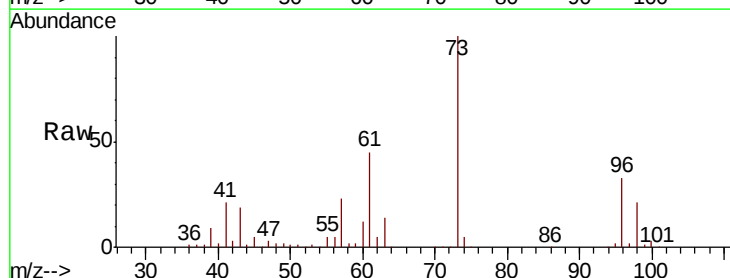
Delta R.T. -0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Tgt Ion: 73 Resp: 392044

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 18.8  | 15.4  | 23.0  |
| 57  | 23.1  | 18.0  | 27.0  |

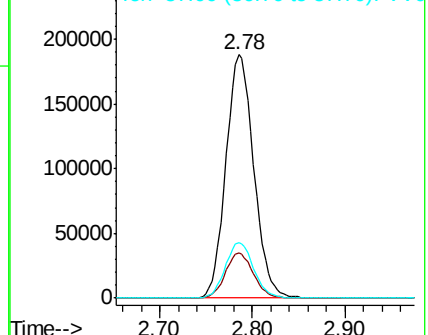
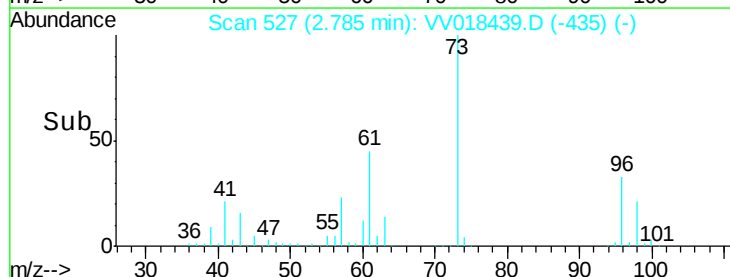


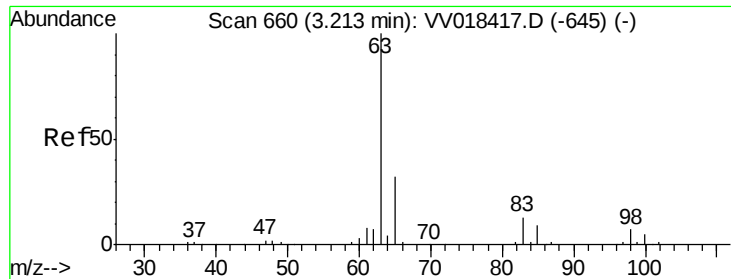
Abundance

Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

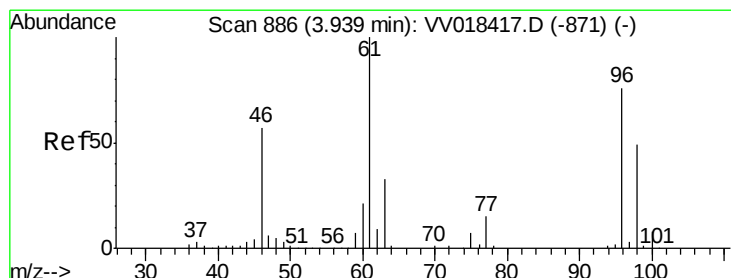
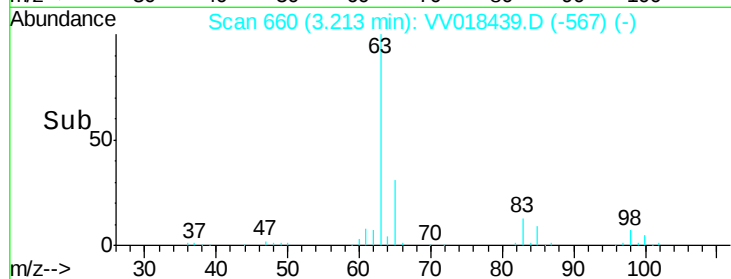
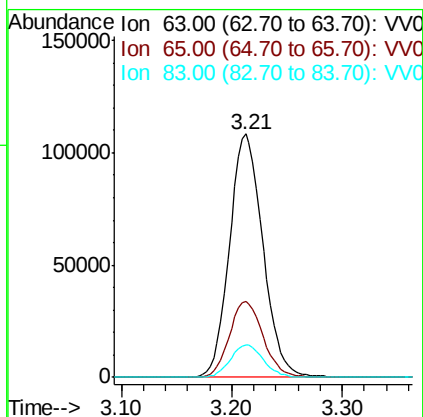
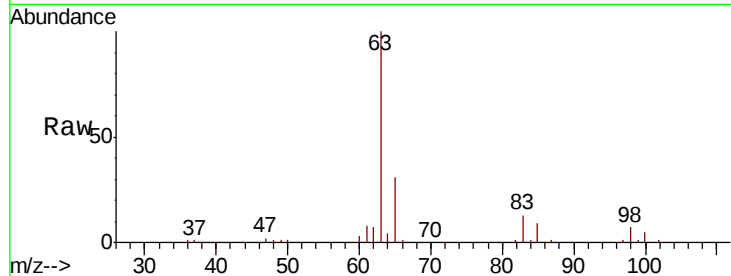




#19  
 1,1-Dichloroethane  
 Concen: 43.804 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

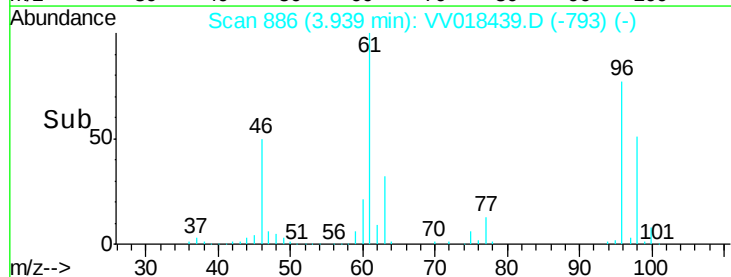
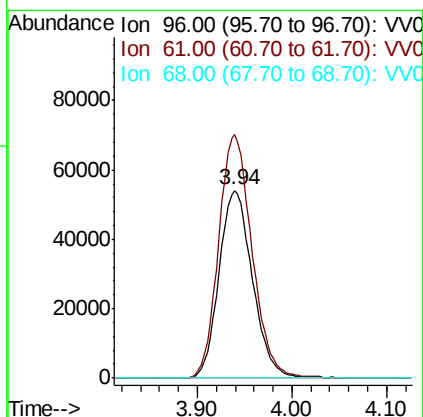
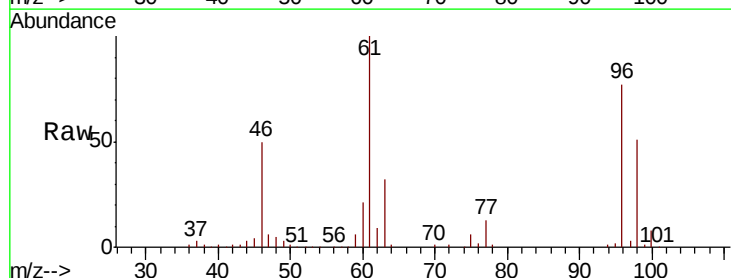
Instrument :  
 MSVOA\_V  
 ClientSampled :

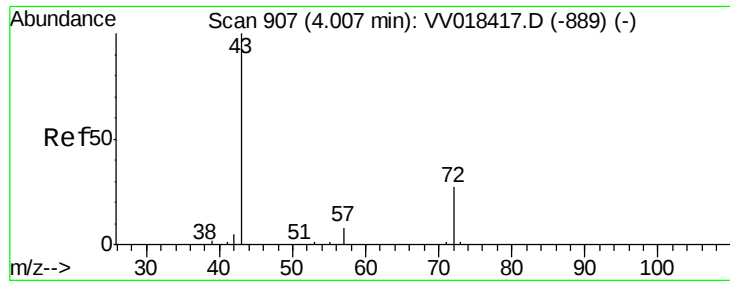
Tot Ion: 63 Resp: 227596  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 22.5 41.7  
 83 13.2 9.3 17.3



#20  
 cis-1,2-Dichloroethene  
 Concen: 45.233 ug/L  
 RT: 3.94 min Scan# 886  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Tgt Ion: 96 Resp: 132877  
 Ion Ratio Lower Upper  
 96 100  
 61 129.6 93.6 173.8  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 90.542 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.01 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

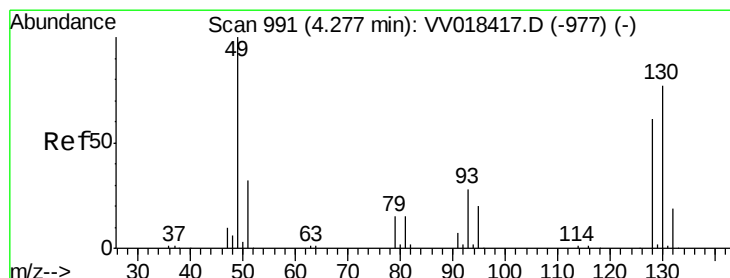
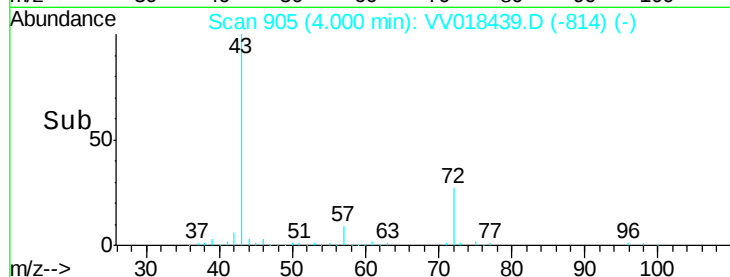
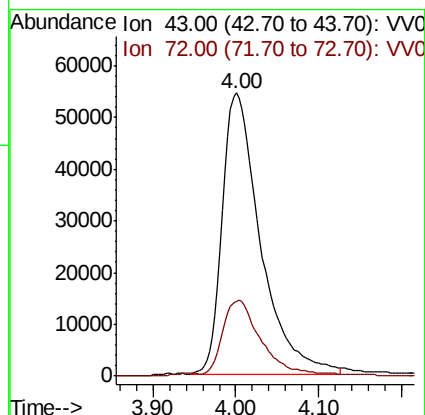
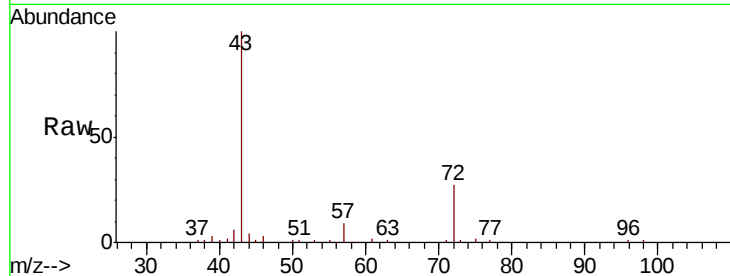
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 173917

Ion Ratio Lower Upper

43 100

72 25.9 13.1 39.3



#23

Bromochloromethane

Concen: 44.751 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Tgt Ion:128 Resp: 68781

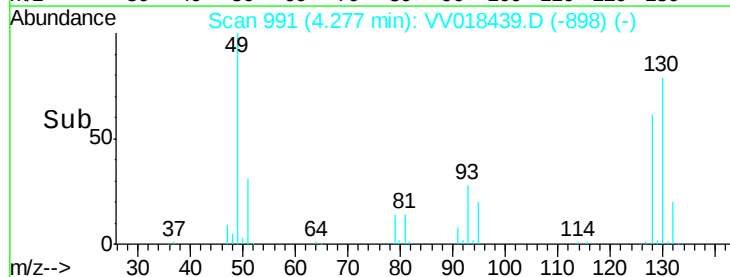
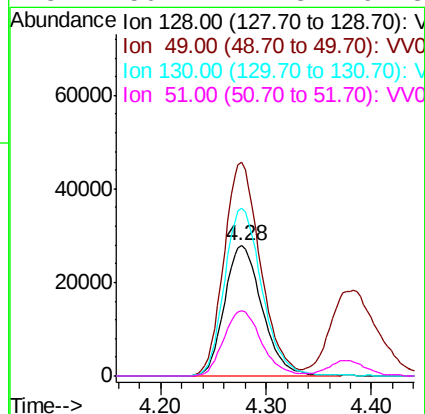
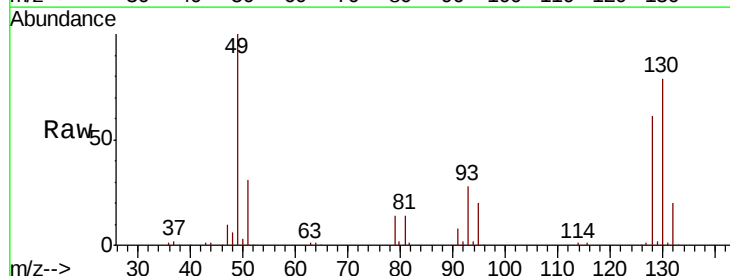
Ion Ratio Lower Upper

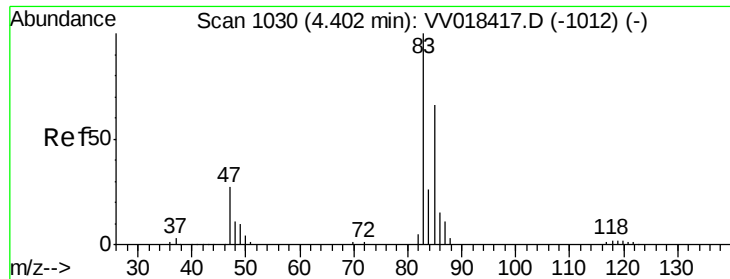
128 100

49 163.7 114.4 212.6

130 128.8 87.9 163.3

51 50.2 41.8 62.8

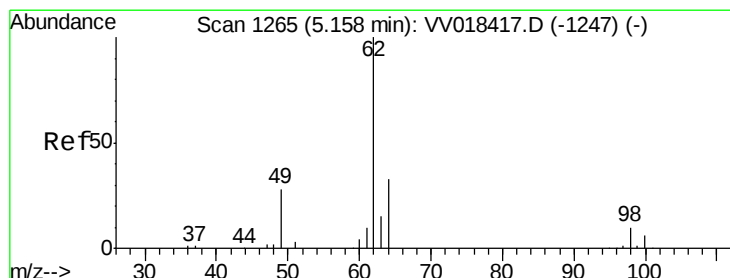
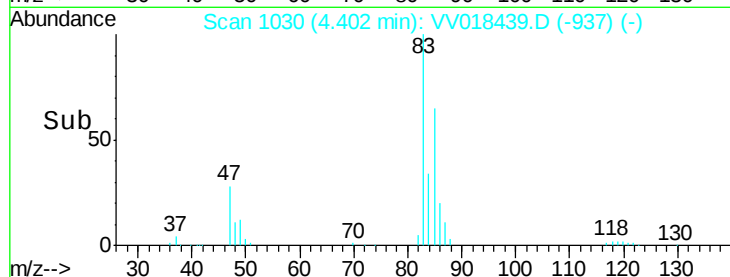
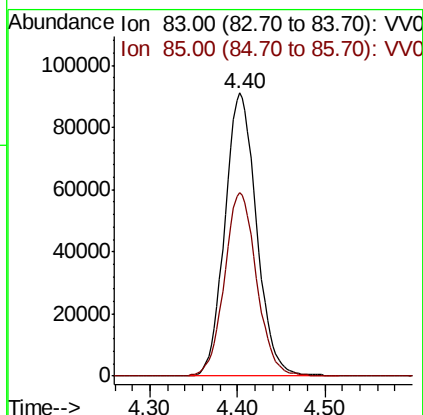
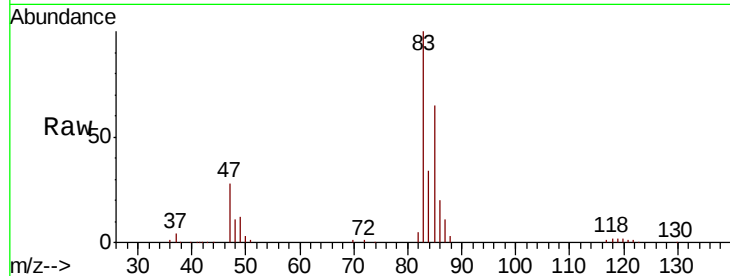




#25  
Chloroform  
Concen: 43.344 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

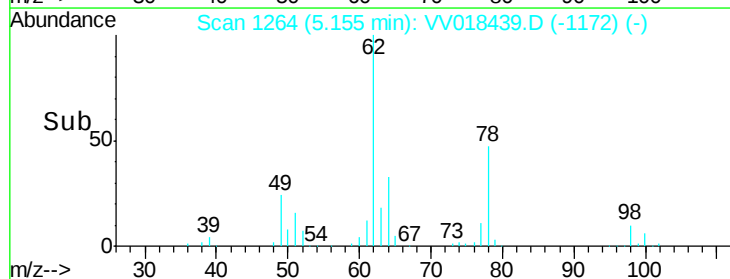
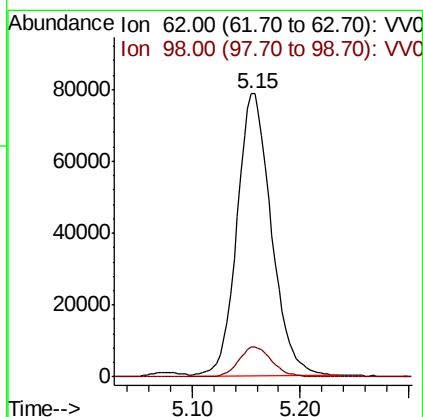
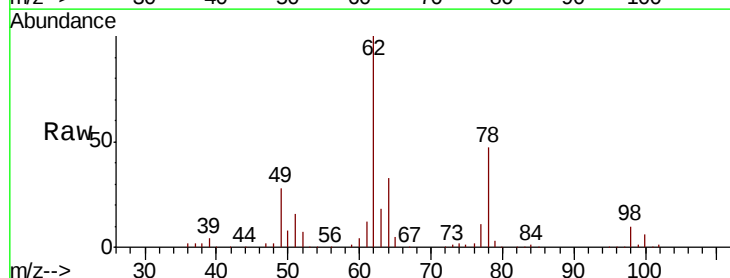
Instrument :  
MSVOA\_V  
ClientSampled :

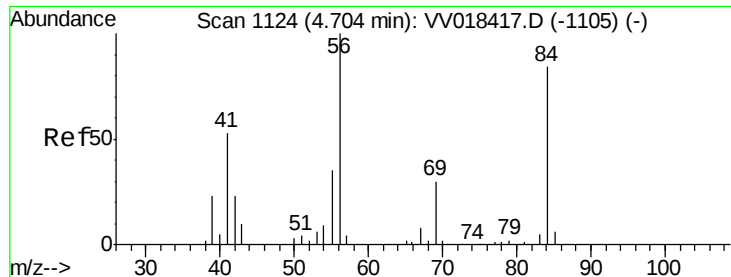
Tot Ion: 83 Resp: 228919  
Ion Ratio Lower Upper  
83 100  
85 64.8 45.0 83.6



#27  
1,2-Dichloroethane  
Concen: 42.548 ug/L  
RT: 5.15 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion: 62 Resp: 173966  
Ion Ratio Lower Upper  
62 100  
98 10.4 7.6 11.4

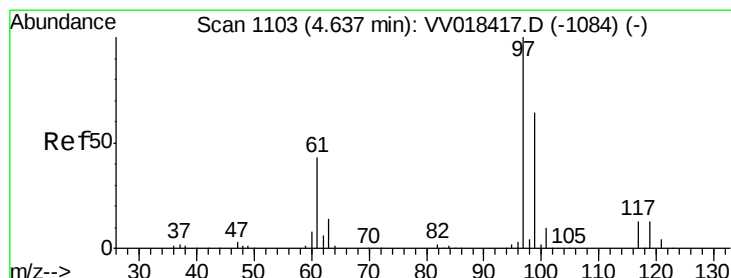
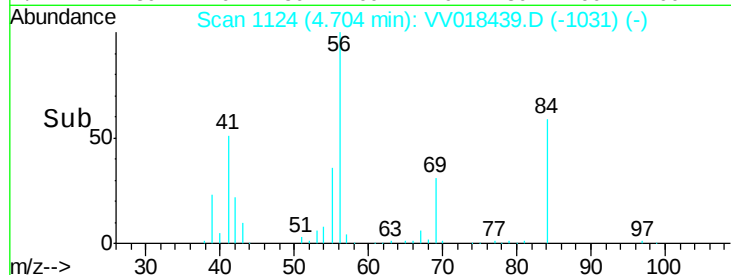
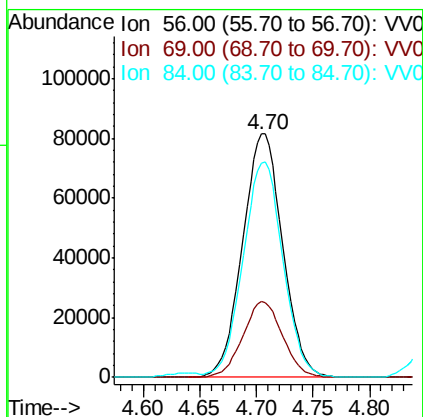
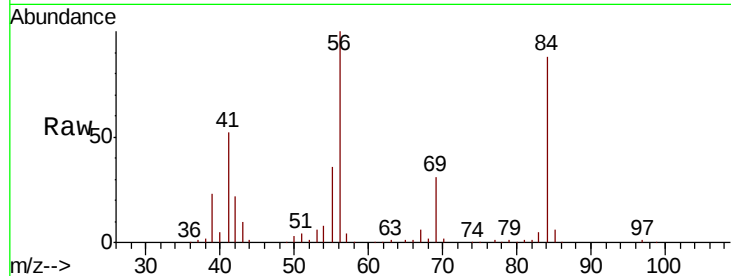




#29  
Cyclohexane  
Concen: 44.625 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

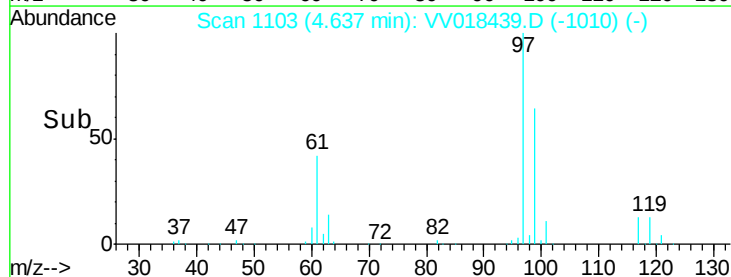
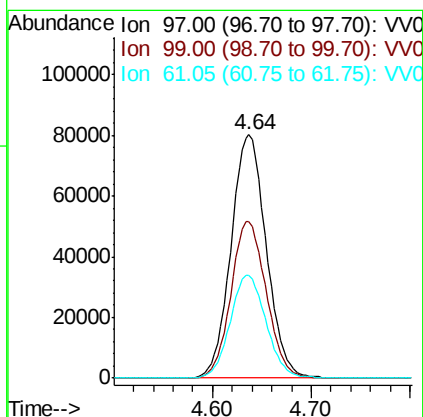
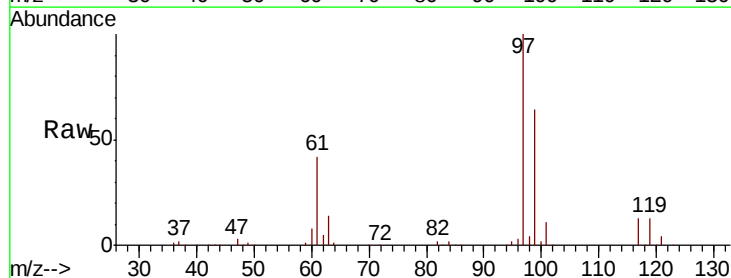
Instrument :  
MSVOA\_V  
ClientSampleId :

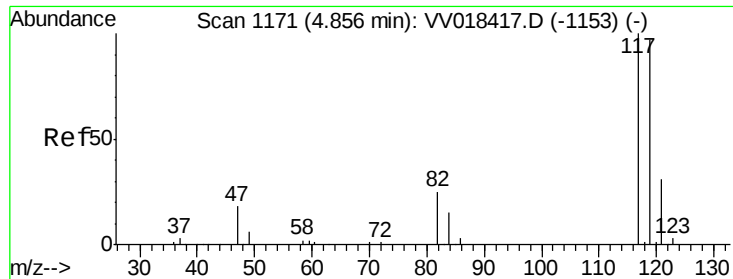
Tot Ion: 56 Resp: 200689  
Ion Ratio Lower Upper  
56 100  
69 30.9 24.2 36.2  
84 88.4 68.3 102.5



#30  
1,1,1-Trichloroethane  
Concen: 44.117 ug/L  
RT: 4.64 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion: 97 Resp: 199398  
Ion Ratio Lower Upper  
97 100  
99 64.6 51.6 77.4  
61 43.0 34.9 52.3

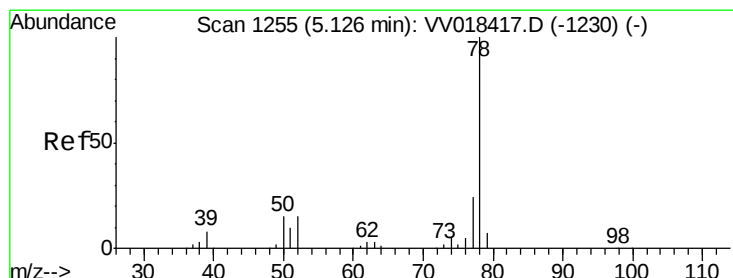
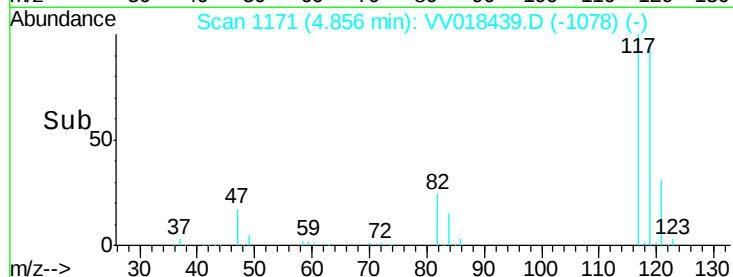
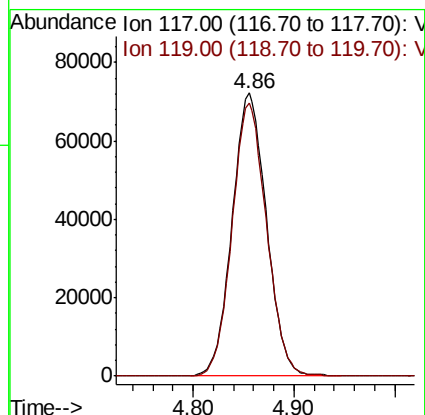
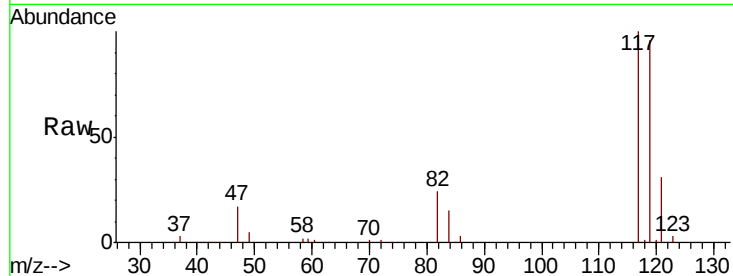




#31  
Carbon tetrachloride  
Concen: 43.017 ug/L  
RT: 4.86 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

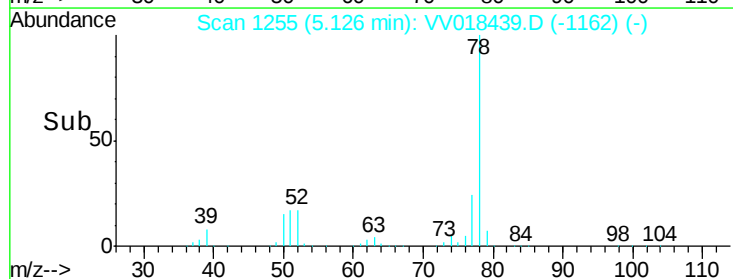
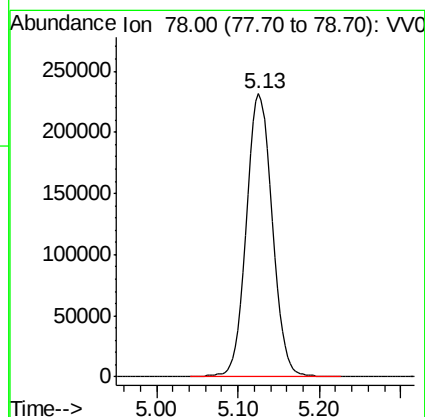
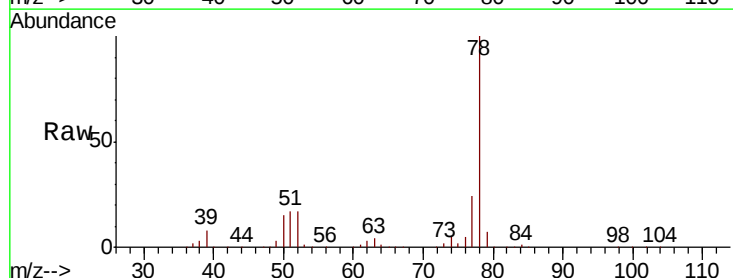
Instrument :  
MSVOA\_V  
ClientSampleId :

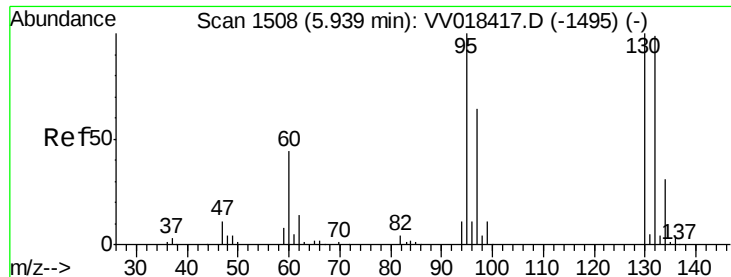
Tot Ion:117 Resp: 170963  
Ion Ratio Lower Upper  
117 100  
119 96.8 75.7 113.5



#33  
Benzene  
Concen: 45.424 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion: 78 Resp: 505795

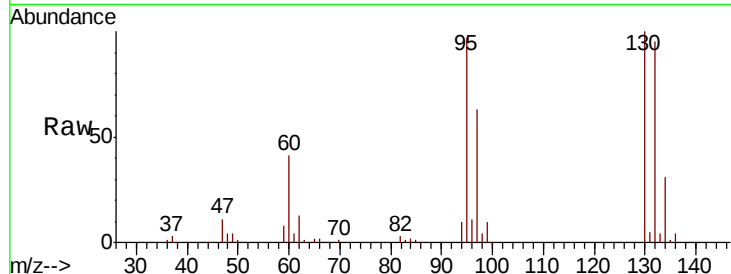




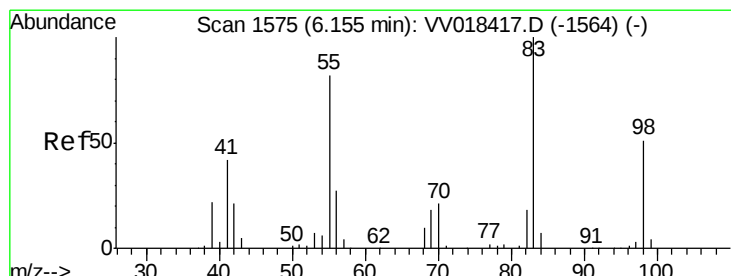
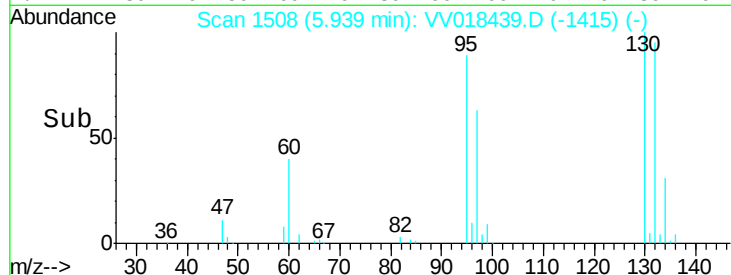
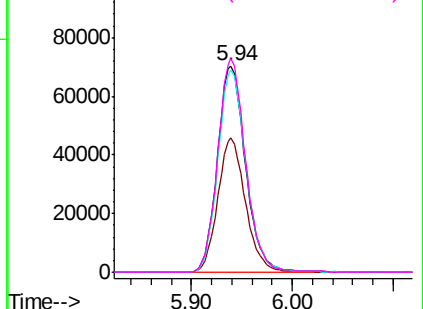
#34  
 Trichloroethene  
 Concen: 45.260 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 95 Resp: 137289  
 Ion Ratio Lower Upper  
 95 100  
 97 64.8 46.3 85.9  
 132 98.2 68.1 126.5  
 130 103.4 71.5 132.9

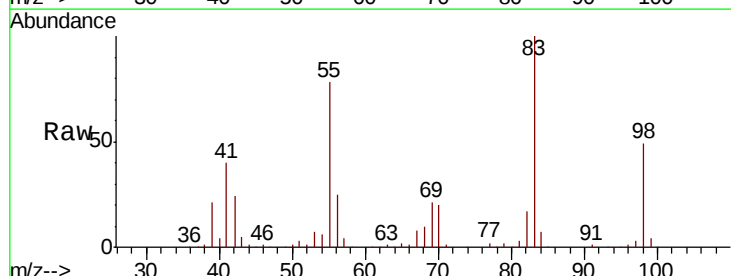


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

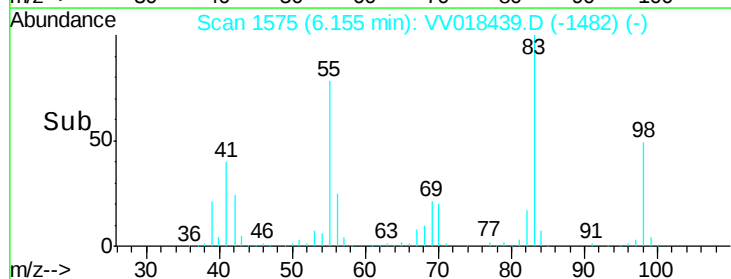
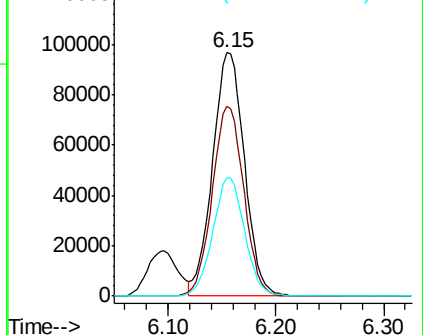


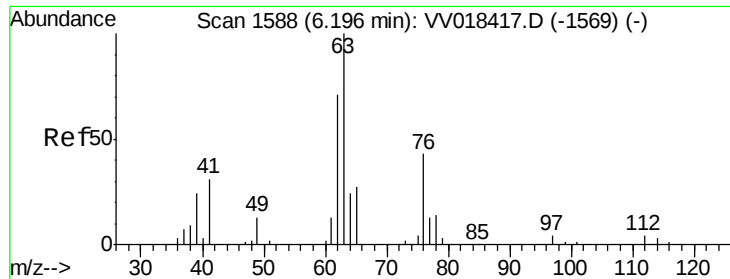
#35  
 Methylcyclohexane  
 Concen: 43.446 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Tgt Ion: 83 Resp: 198426  
 Ion Ratio Lower Upper  
 83 100  
 55 76.8 63.4 95.2  
 98 48.5 38.8 58.2



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

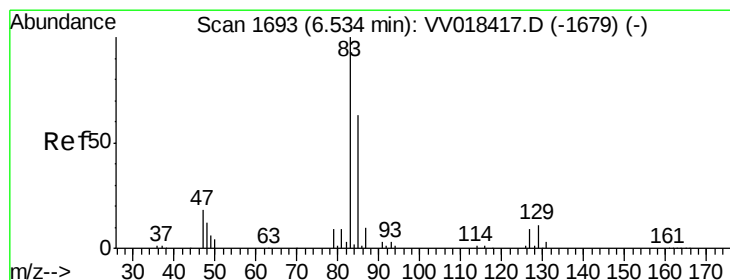
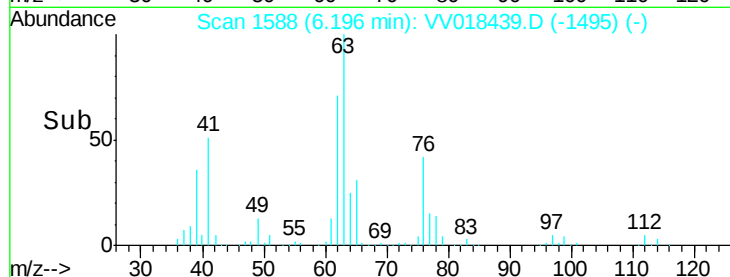
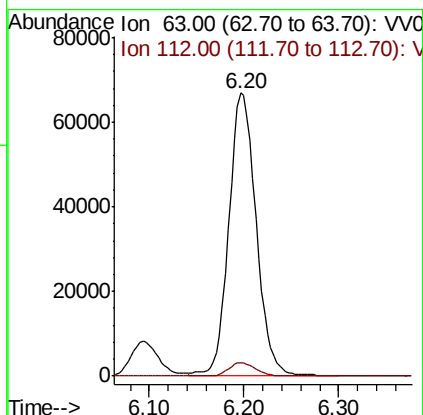
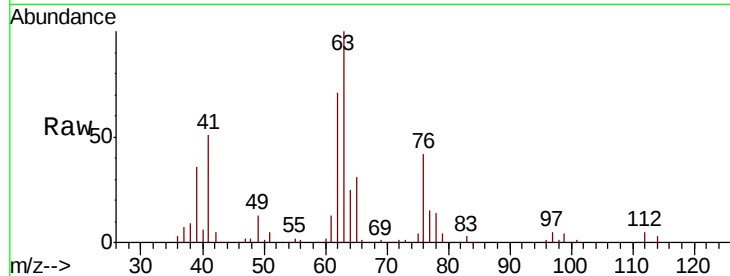




#37  
 1,2-Dichloropropane  
 Concen: 45.367 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

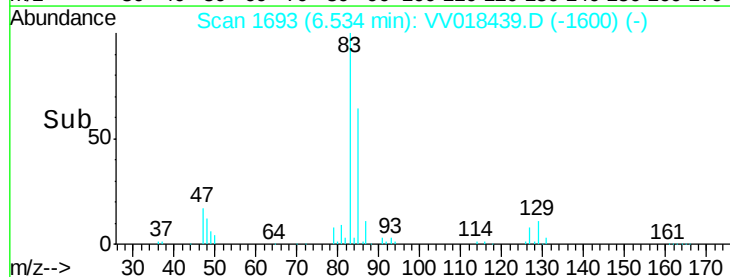
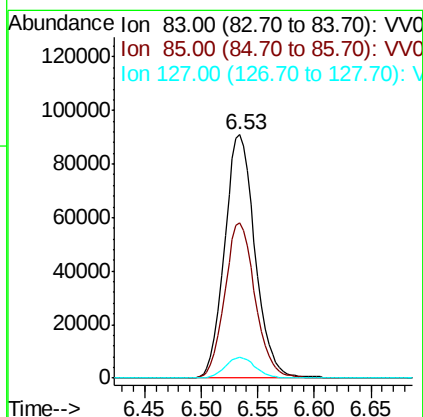
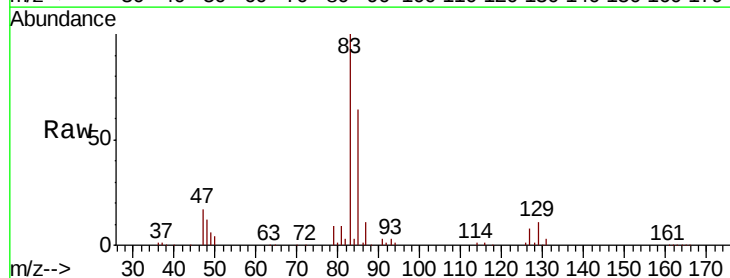
Instrument :  
 MSVOA\_V  
 ClientSampleId :

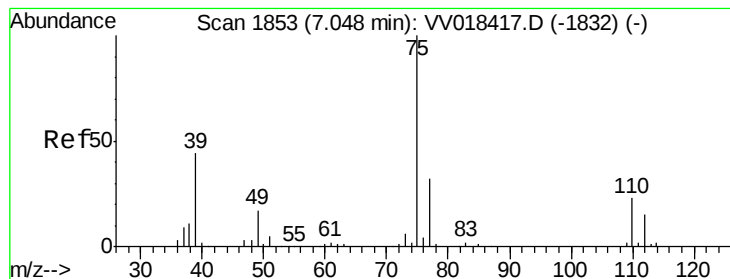
Tot Ion: 63 Resp: 133862  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.4 5.2



#38  
 Bromodichloromethane  
 Concen: 44.388 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Tgt Ion: 83 Resp: 170441  
 Ion Ratio Lower Upper  
 83 100  
 85 63.7 44.7 82.9  
 127 8.4 6.7 10.1



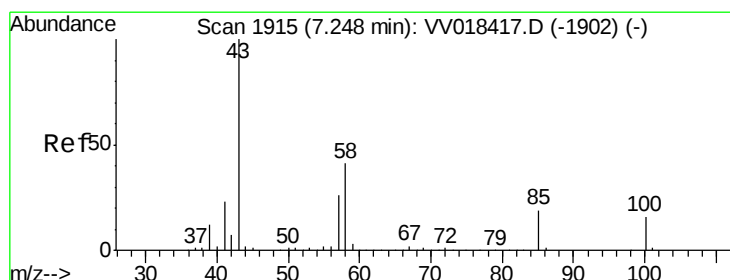
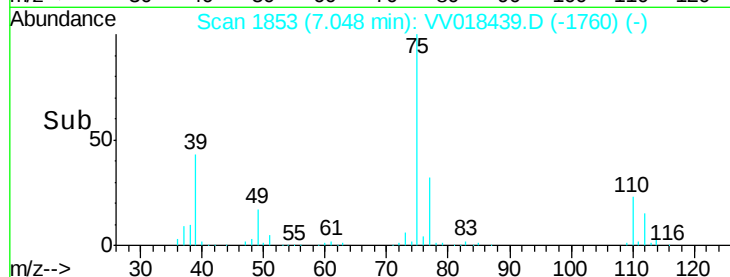
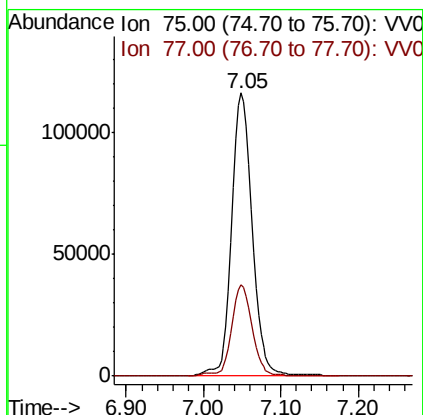
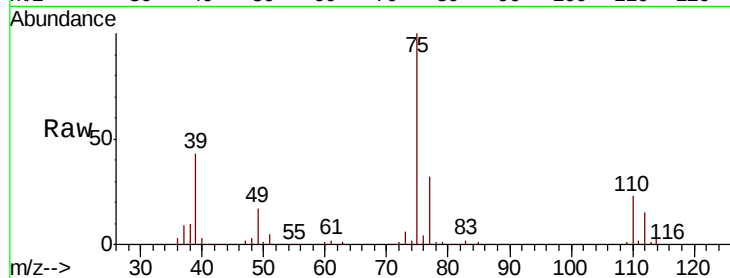


#39

cis-1,3-Dichloropropene  
Concen: 46.834 ug/L  
RT: 7.05 min Scan# 1853  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Instrument :  
MSVOA\_V  
ClientSampled :

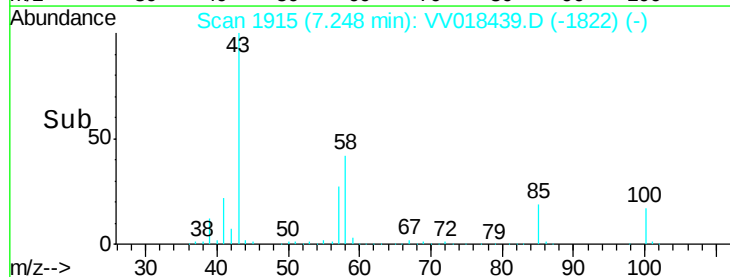
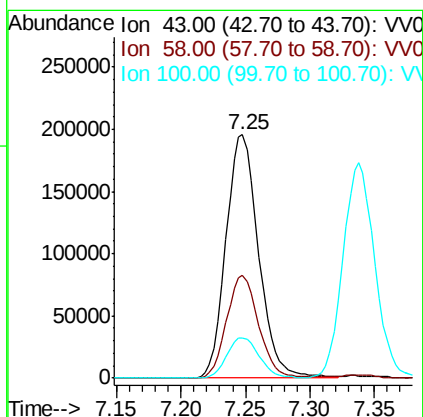
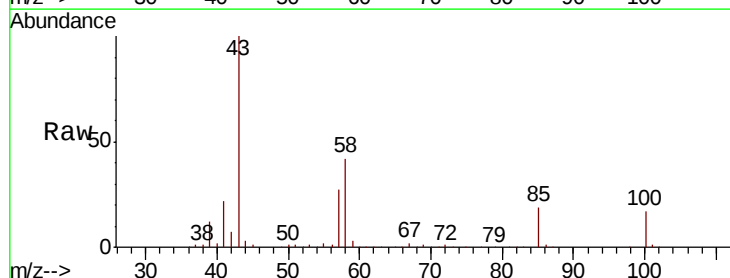
Tot Ion: 75 Resp: 212919  
Ion Ratio Lower Upper  
75 100  
77 32.2 22.3 41.3

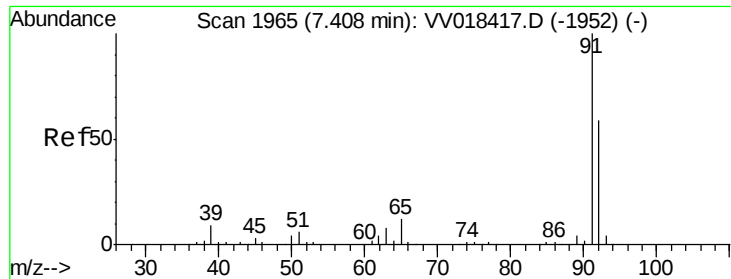


#40

4-Methyl-2-pentanone  
Concen: 96.140 ug/L  
RT: 7.25 min Scan# 1915  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion: 43 Resp: 344147  
Ion Ratio Lower Upper  
43 100  
58 41.3 32.4 48.6  
100 16.5 12.7 19.1





#42

Toluene

Concen: 46.463 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

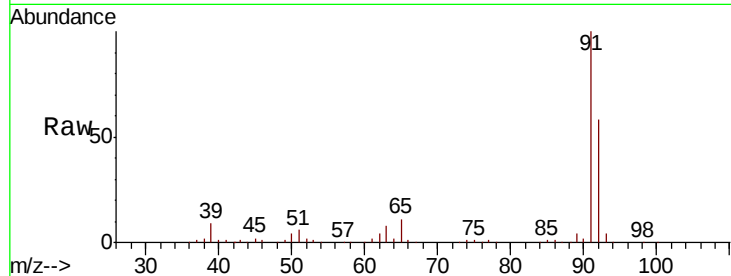
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 547512

Ion Ratio Lower Upper

91 100

92 58.3 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV018417.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV018417.D (-1952) (-)

7.41

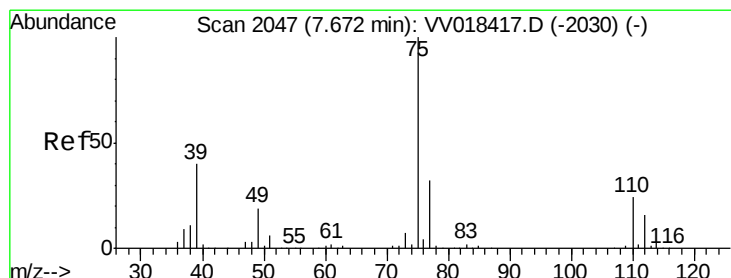
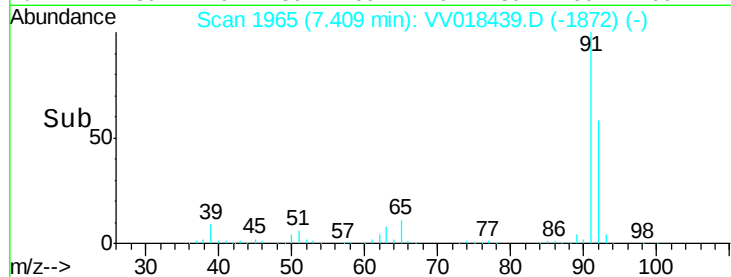
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.359 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV018439.D

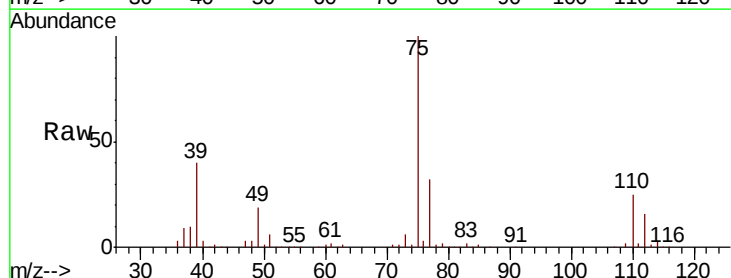
Acq: 24 Sep 2020 19:45

Tgt Ion: 75 Resp: 205208

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV018417.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV018417.D (-2030) (-)

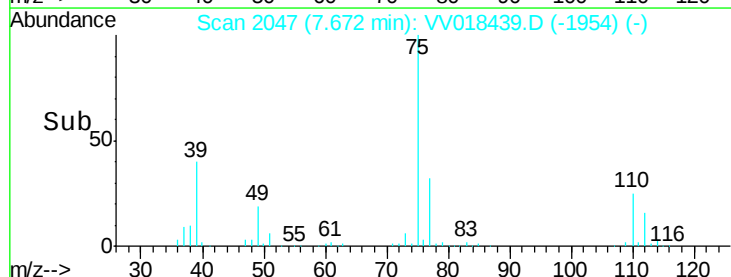
7.67

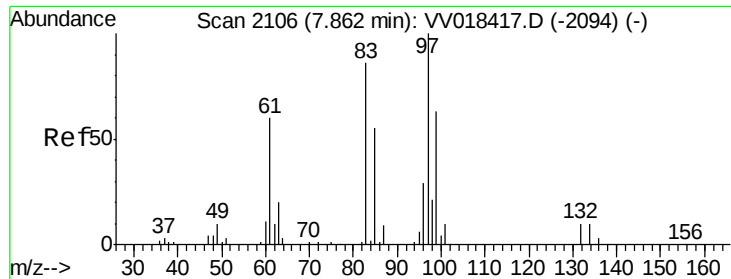
100000

50000

0

Time-->

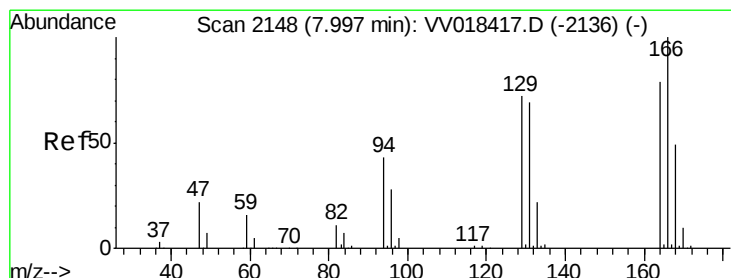
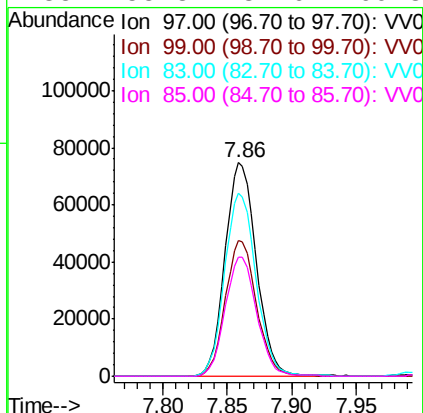
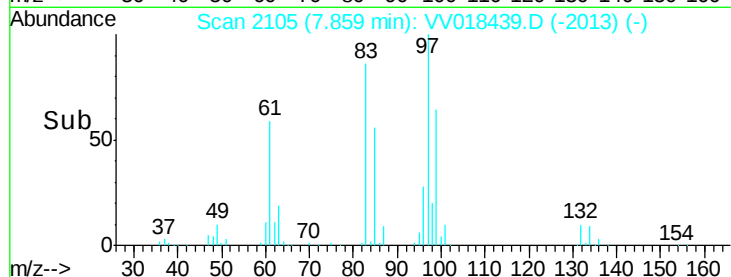
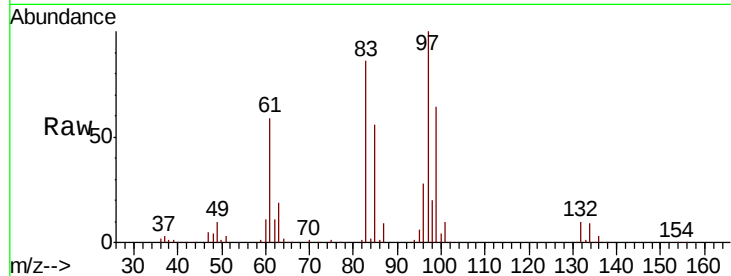




#45  
 1,1,2-Trichloroethane  
 Concen: 46.272 ug/L  
 RT: 7.86 min Scan# 2105  
 Delta R.T. -0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

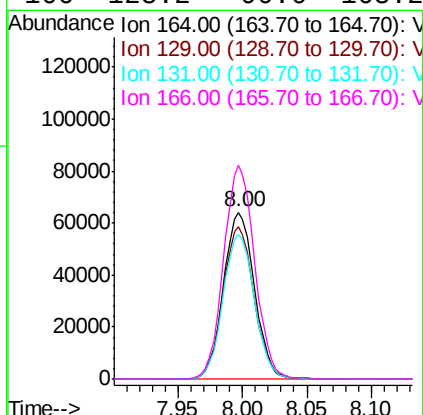
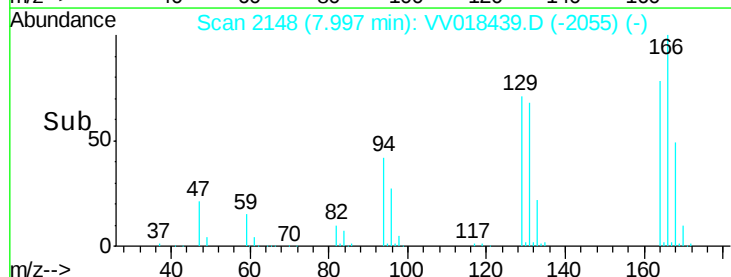
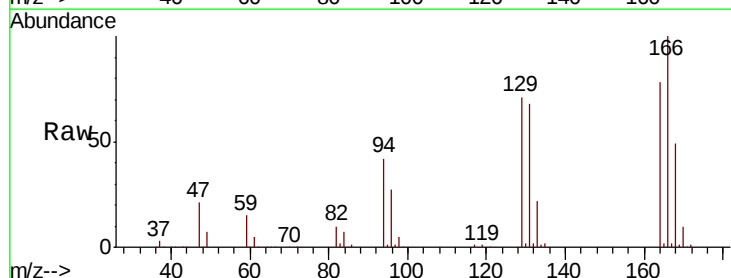
Instrument :  
 MSVOA\_V  
 ClientSampled :

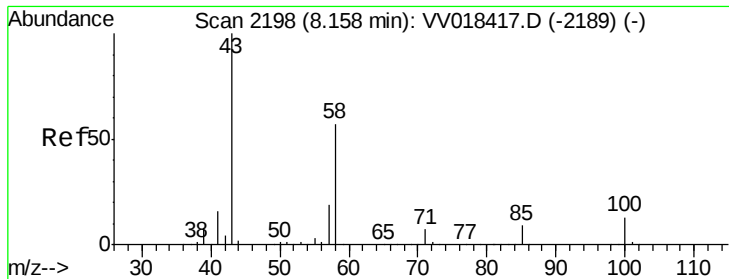
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 126549 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.7  | 43.7  | 81.1   |
| 83       | 85.7  | 59.9  | 111.3  |
| 85       | 55.8  | 37.6  | 69.8   |



#46  
 Tetrachloroethene  
 Concen: 45.008 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 107044 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 91.6  | 64.5  | 119.7  |
| 131      | 87.0  | 61.8  | 114.8  |
| 166      | 128.2 | 90.6  | 168.2  |

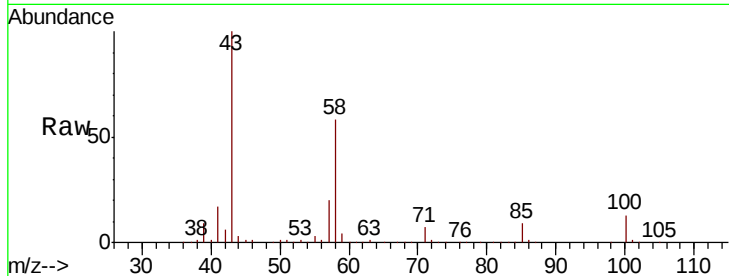




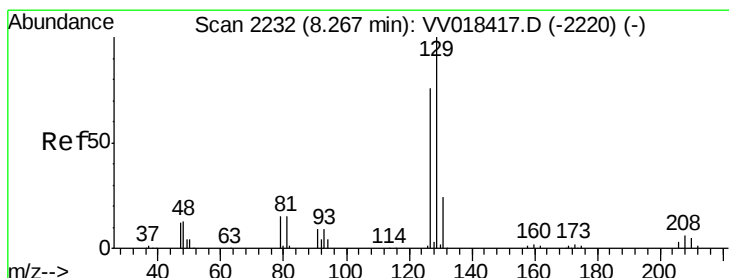
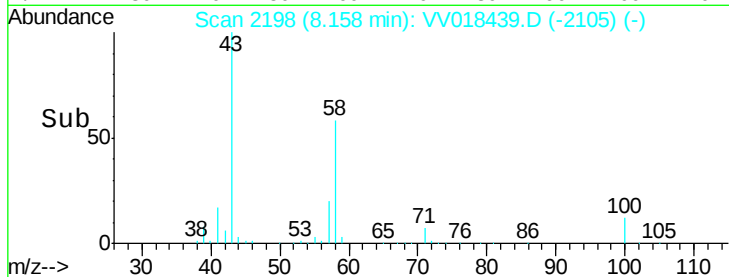
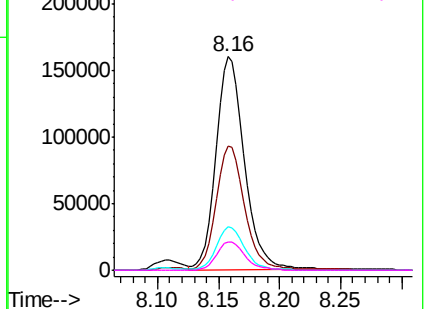
#48  
2-Hexanone  
Concen: 92.924 ug/L  
RT: 8.16 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 262241  
Ion Ratio Lower Upper  
43 100  
58 59.1 44.8 67.2  
57 20.1 15.8 23.6  
100 13.5 10.2 15.4

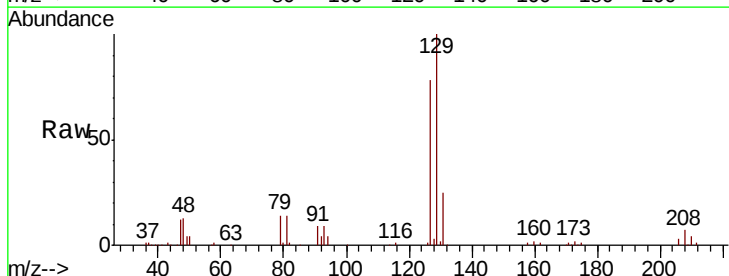


Abundance Ion 43.00 (42.70 to 43.70): VV018439.D (-2198) (-)  
Ion 58.00 (57.70 to 58.70): VV018439.D (-2198) (-)  
Ion 57.00 (56.70 to 57.70): VV018439.D (-2198) (-)  
Ion 100.00 (99.70 to 100.70): VV018439.D (-2198) (-)

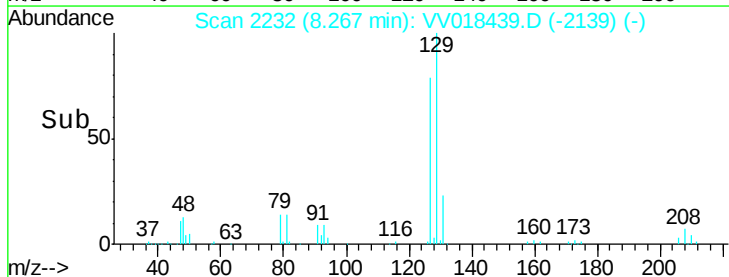
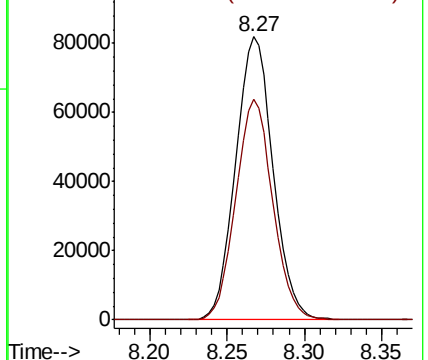


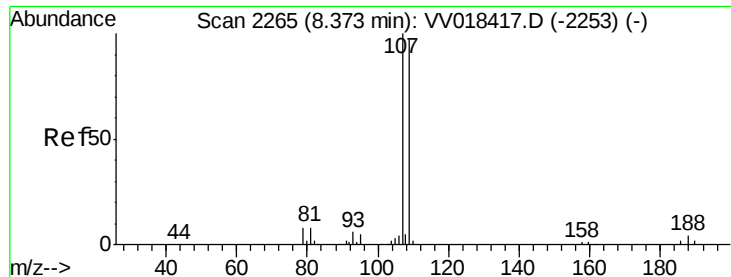
#49  
Dibromochloromethane  
Concen: 44.852 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion: 129 Resp: 137689  
Ion Ratio Lower Upper  
129 100  
127 77.9 54.5 101.1



Abundance Ion 129.00 (128.70 to 129.70): VV018439.D (-2232) (-)  
Ion 127.00 (126.70 to 127.70): VV018439.D (-2232) (-)

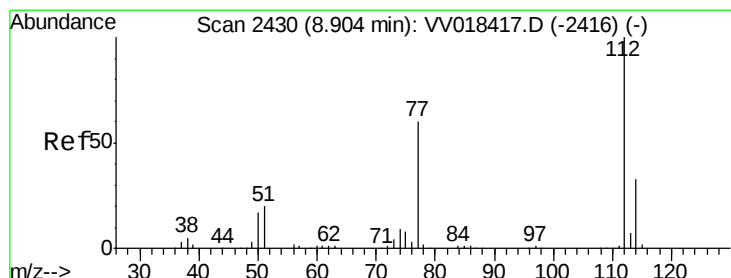
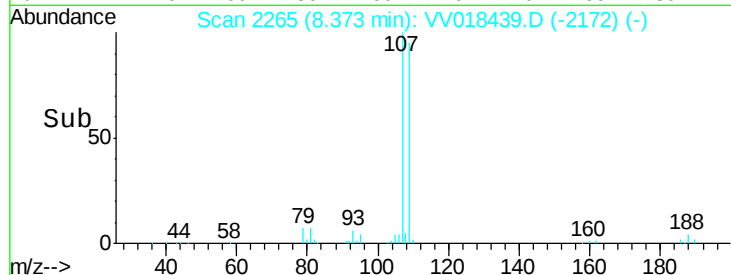
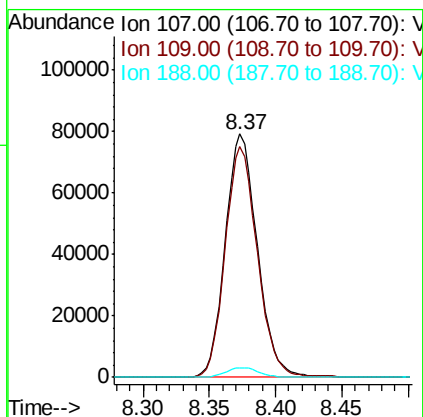
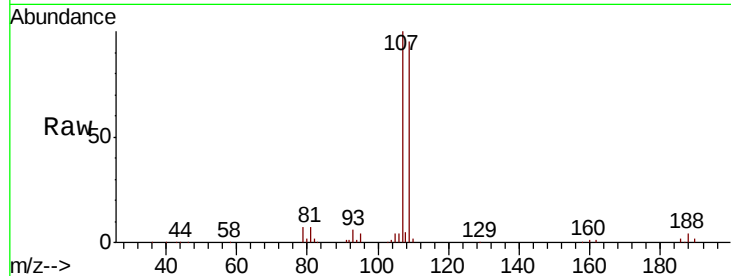




#50  
1,2-Dibromoethane  
Concen: 46.302 ug/L  
RT: 8.37 min Scan# 2265  
Delta R.T. 0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

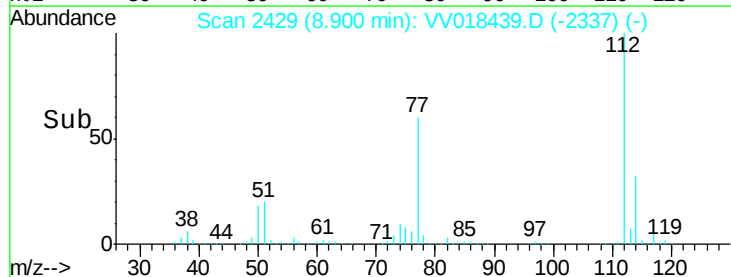
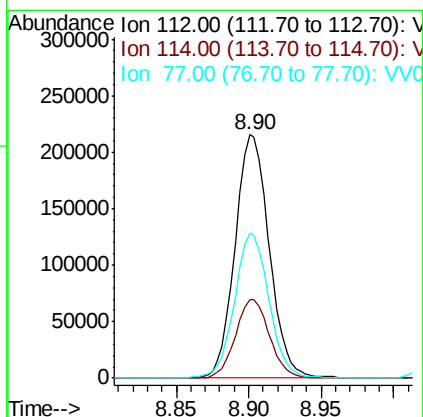
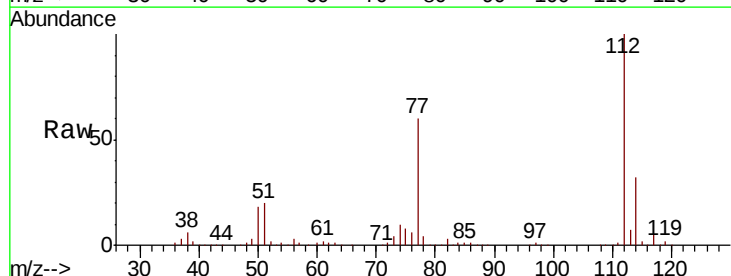
Instrument :  
MSVOA\_V  
ClientSampleId :

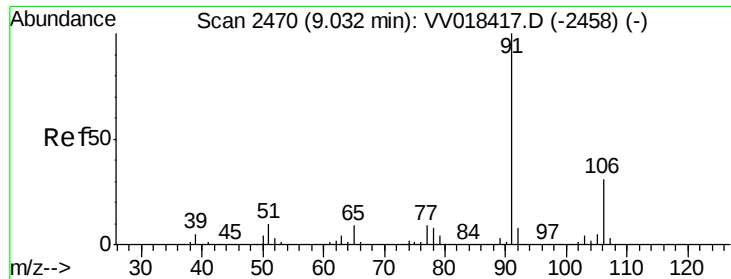
Tot Ion:107 Resp: 133273  
Ion Ratio Lower Upper  
107 100  
109 94.6 66.1 122.8  
188 4.1 3.2 4.8



#51  
Chlorobenzene  
Concen: 46.133 ug/L  
RT: 8.90 min Scan# 2429  
Delta R.T. -0.00 min  
Lab File: VV018439.D  
Acq: 24 Sep 2020 19:45

Tgt Ion:112 Resp: 353047  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.6 42.0  
77 59.6 48.0 72.0





#52

Ethylbenzene

Concen: 47.064 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

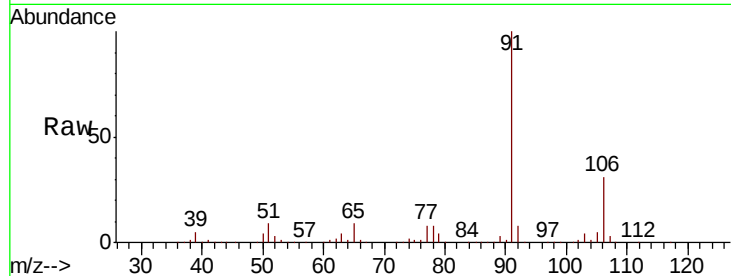
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 91 Resp: 605481

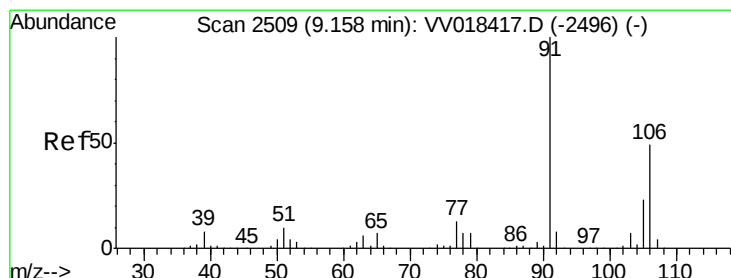
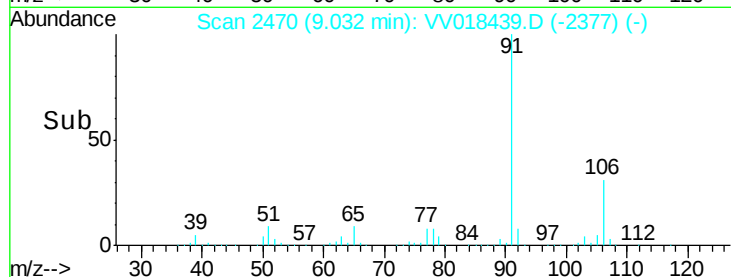
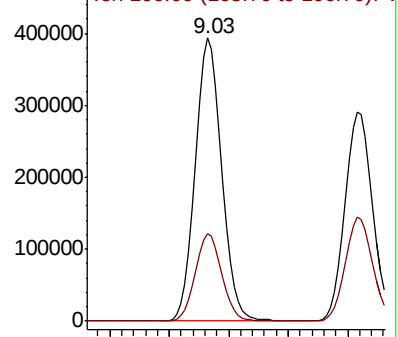
Ion Ratio Lower Upper

91 100

106 30.8 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV018439.D (-2377) (-)



#53

m,p-Xylene

Concen: 48.037 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018439.D

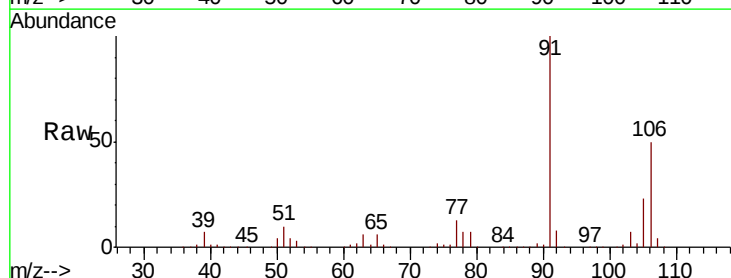
Acq: 24 Sep 2020 19:45

Tgt Ion: 106 Resp: 230673

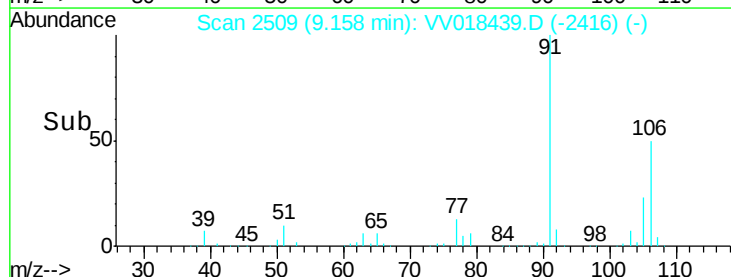
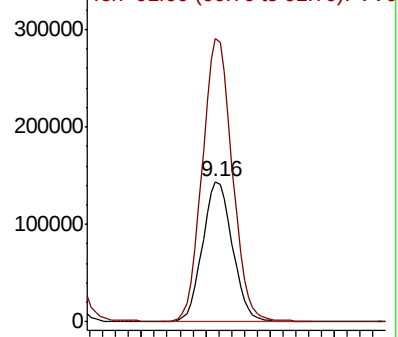
Ion Ratio Lower Upper

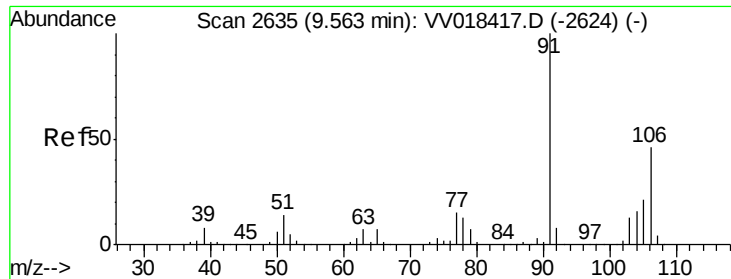
106 100

91 201.6 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV018439.D (-2416) (-)





#54

o-xylene

Concen: 48.171 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

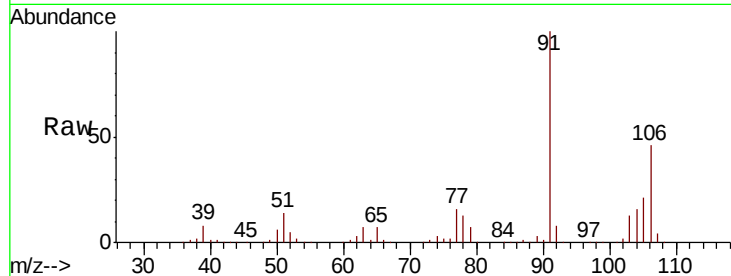
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 222846

Ion Ratio Lower Upper

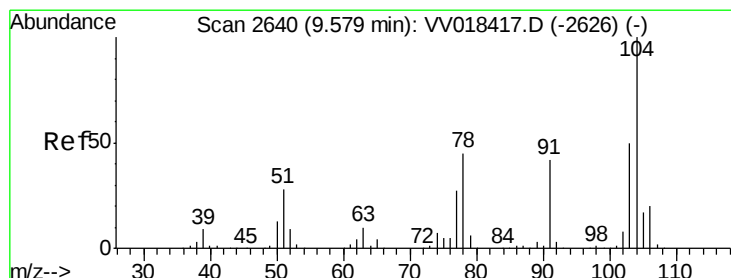
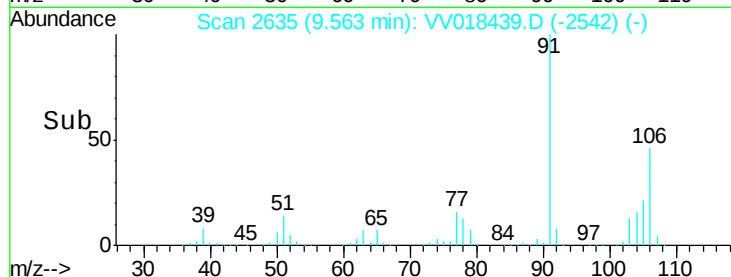
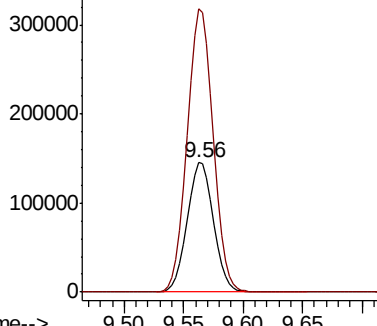
106 100

91 218.8 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.383 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV018439.D

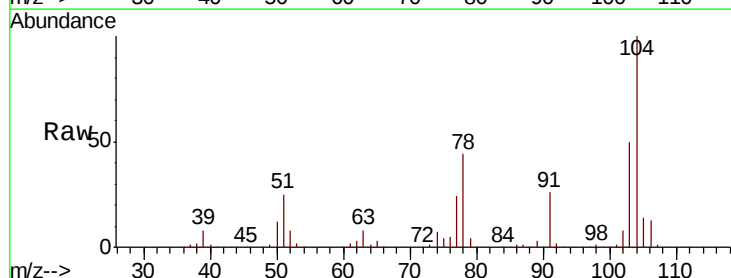
Acq: 24 Sep 2020 19:45

Tgt Ion:104 Resp: 389040

Ion Ratio Lower Upper

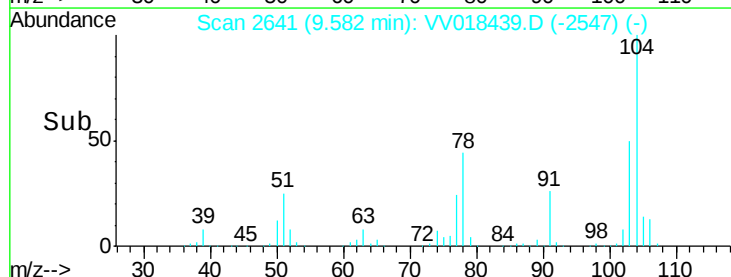
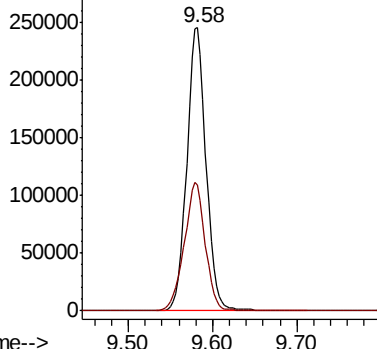
104 100

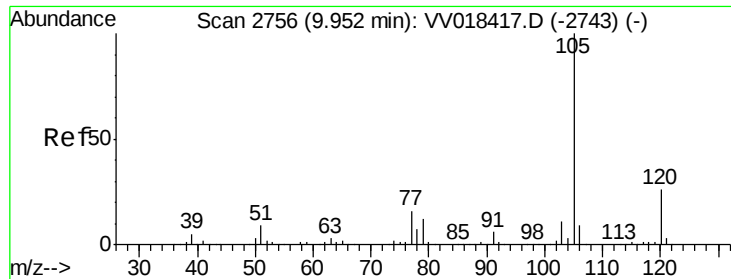
78 44.3 31.4 58.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 48.362 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

ClientSampled :

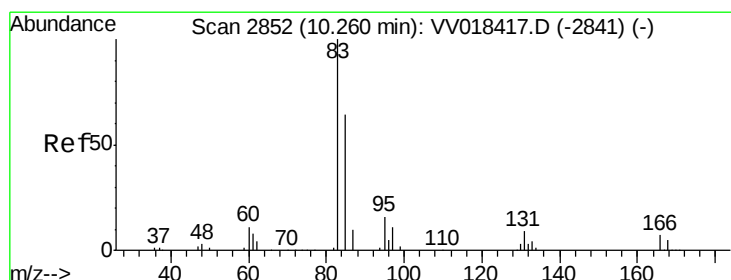
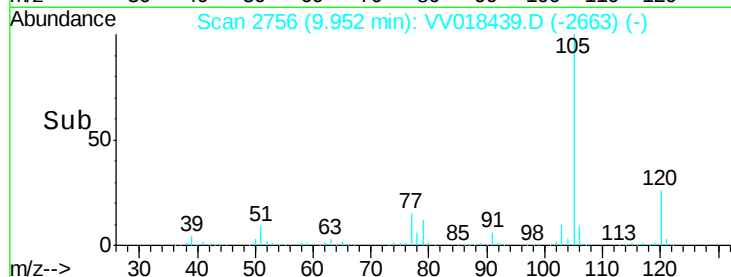
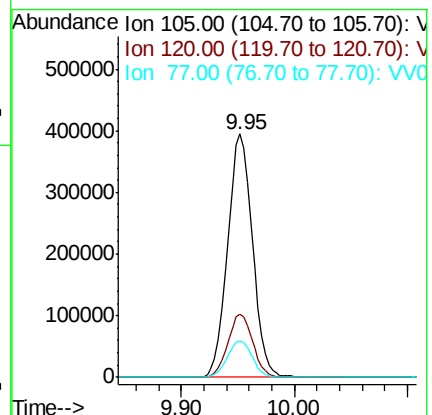
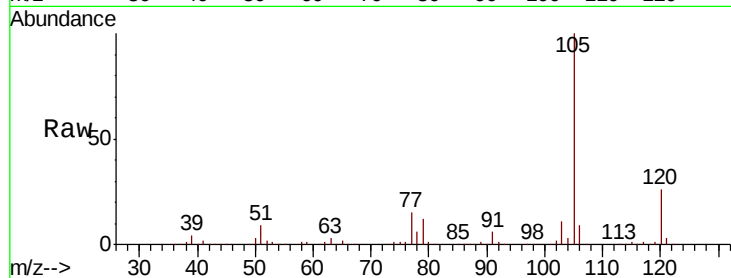
Tot Ion:105 Resp: 602975

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

77 15.3 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 47.366 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

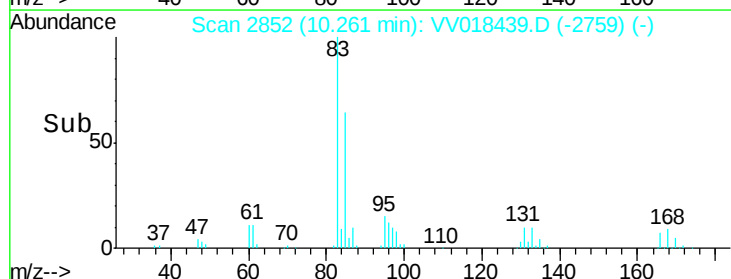
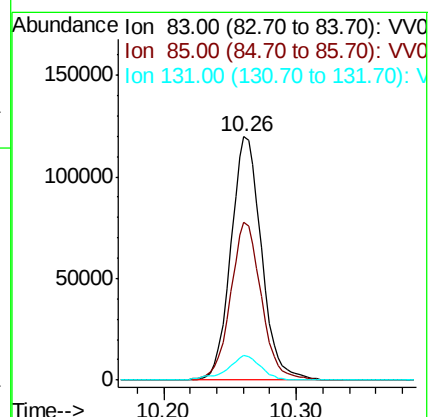
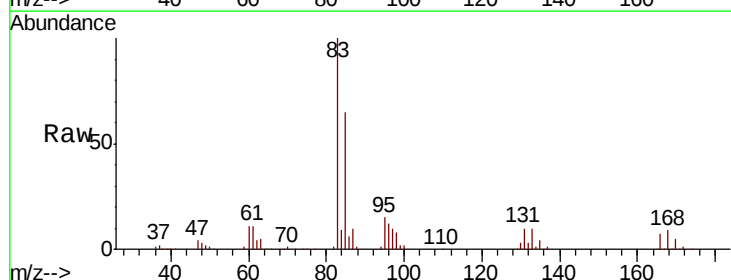
Tgt Ion: 83 Resp: 191623

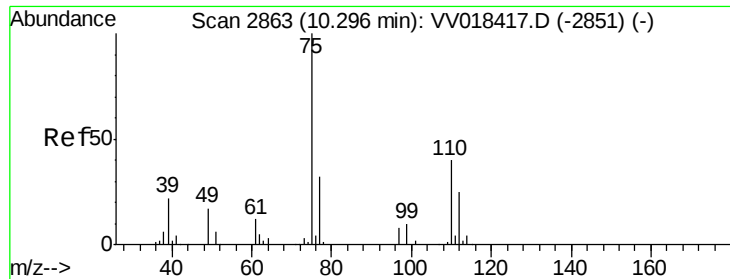
Ion Ratio Lower Upper

83 100

85 64.6 45.8 85.2

131 10.0 8.0 12.0





#59

1,2,3-Trichloropropane

Concen: 46.569 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

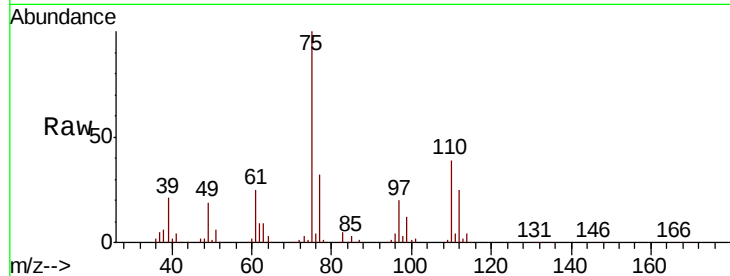
ClientSampleId :

Tot Ion: 75 Resp: 161619

Ion Ratio Lower Upper

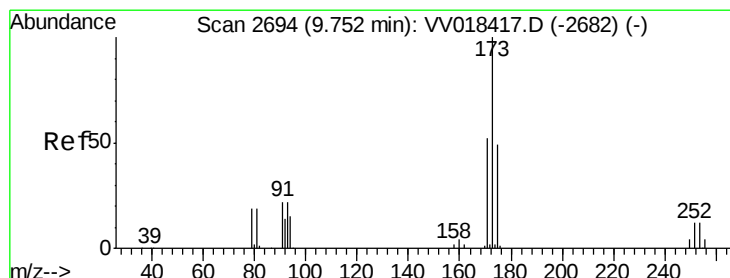
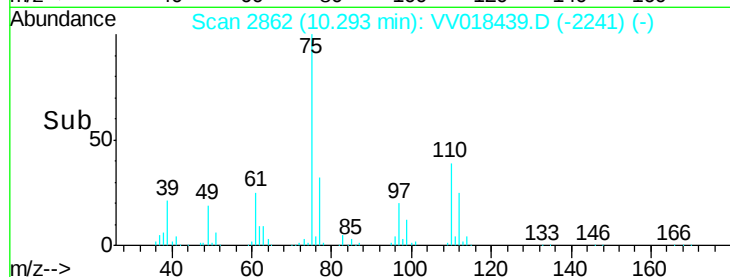
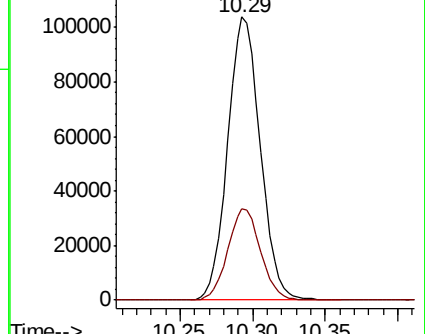
75 100

77 32.3 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VV018417.D (-2851) (-)

Ion 77.00 (76.70 to 77.70): VV018417.D (-2851) (-)



#61

Bromoform

Concen: 45.641 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

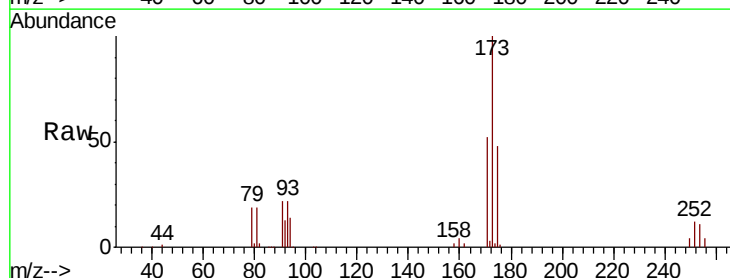
Tgt Ion: 173 Resp: 102190

Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.6

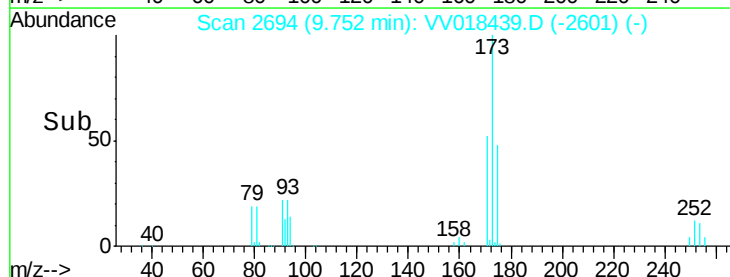
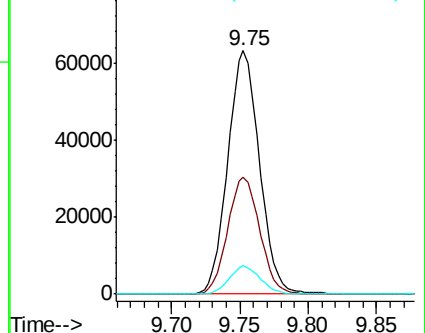
254 11.3 9.0 13.4

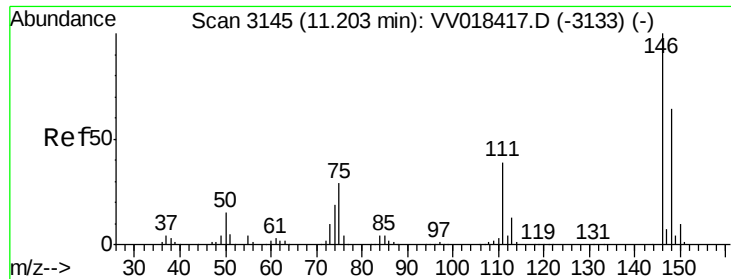


Abundance Ion 173.00 (172.70 to 173.70): VV018417.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV018417.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV018417.D (-2682) (-)

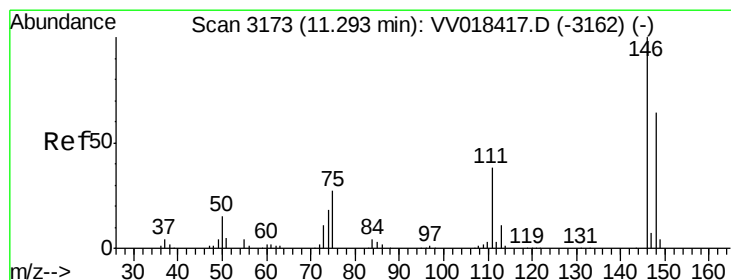
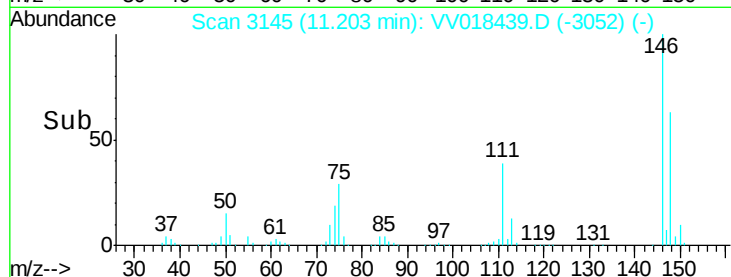
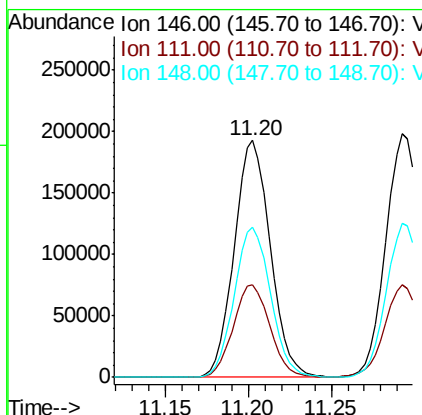
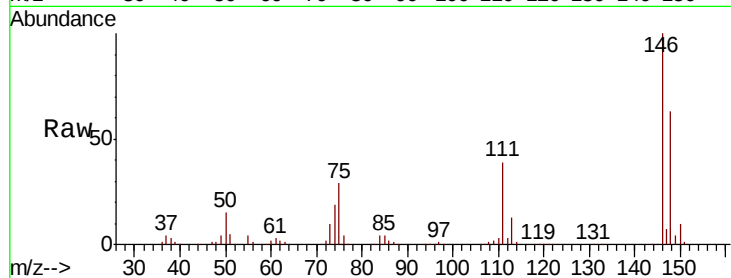




#62  
 1,3-Dichlorobenzene  
 Concen: 47.224 ug/L  
 RT: 11.20 min Scan# 3145  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

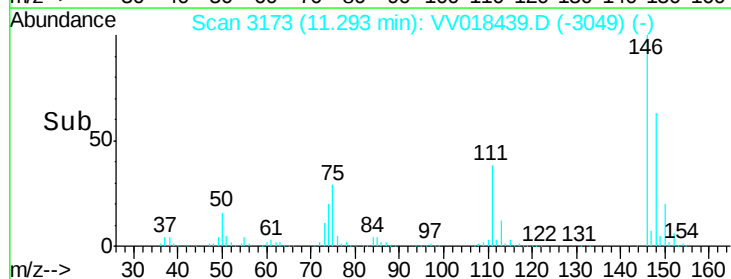
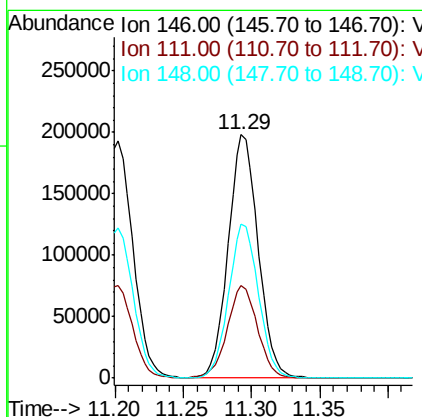
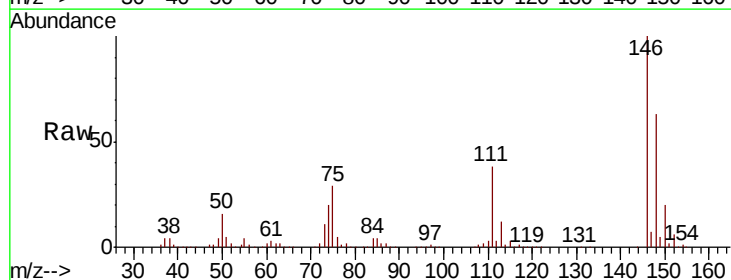
Instrument :  
 MSVOA\_V  
 ClientSampled :

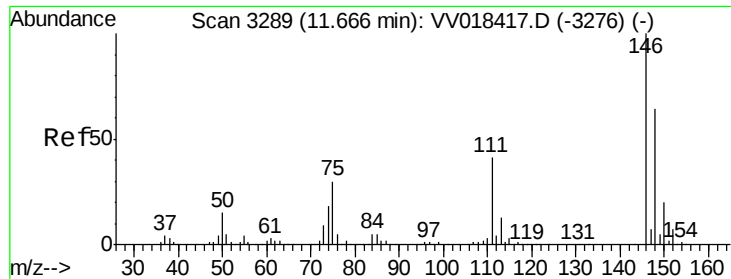
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 27.6  | 51.2  |
| 148     | 63.3  | 45.4  | 84.2  |



#63  
 1,4-Dichlorobenzene  
 Concen: 47.250 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 27.1  | 50.3  |
| 148     | 63.0  | 45.4  | 84.2  |





#65

1,2-Dichlorobenzene

Concen: 46.604 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

ClientSampleId :

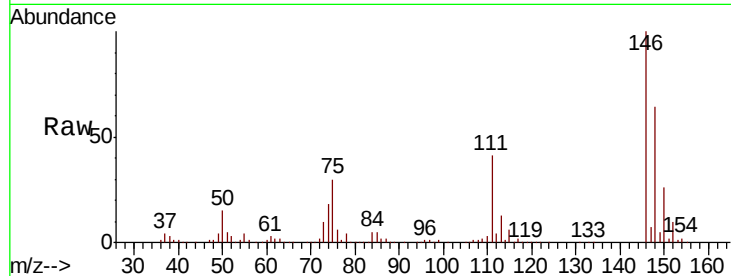
Tot Ion:146 Resp: 291935

Ion Ratio Lower Upper

146 100

111 40.9 32.8 49.2

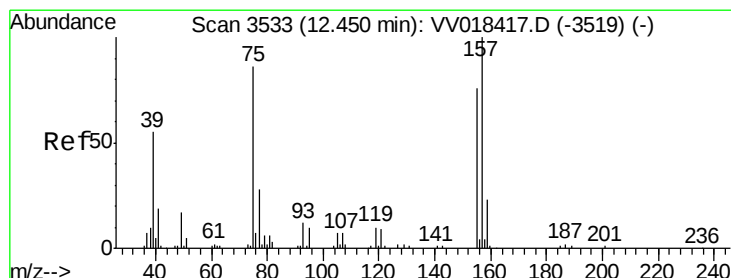
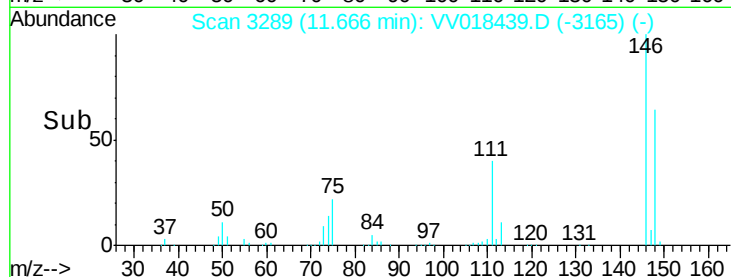
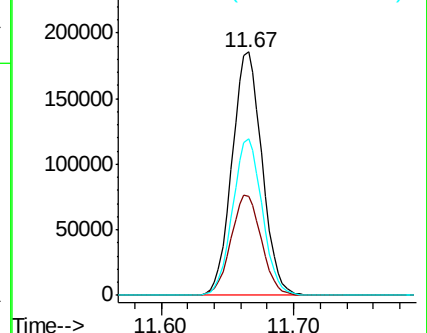
148 64.2 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 47.096 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

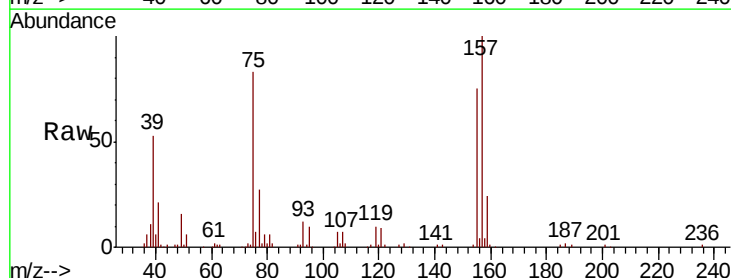
Tgt Ion: 75 Resp: 41631

Ion Ratio Lower Upper

75 100

155 91.1 69.7 104.5

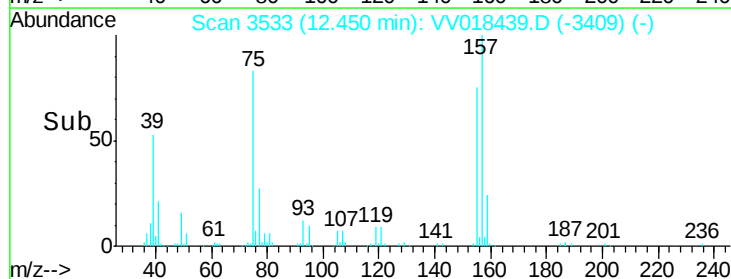
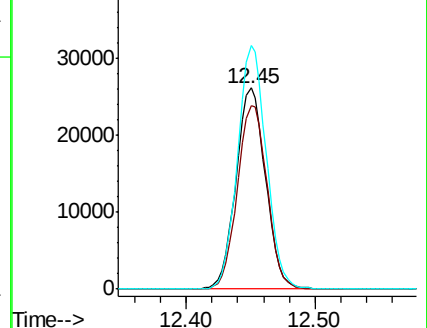
157 121.0 88.2 132.4

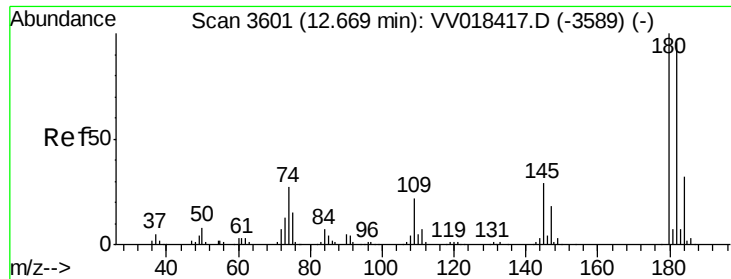


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

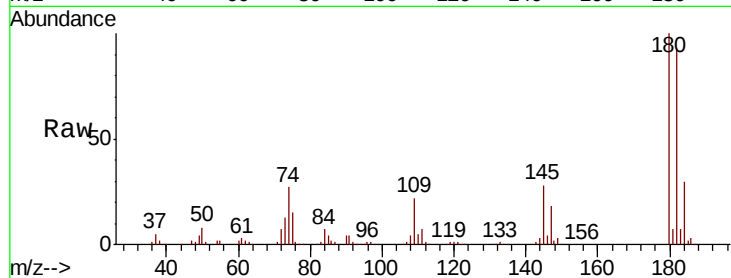




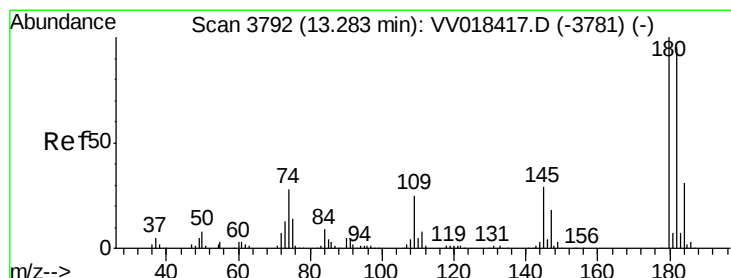
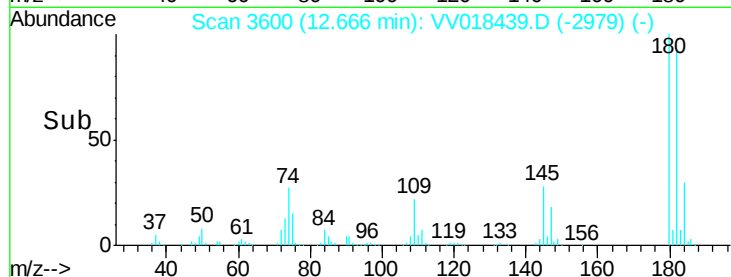
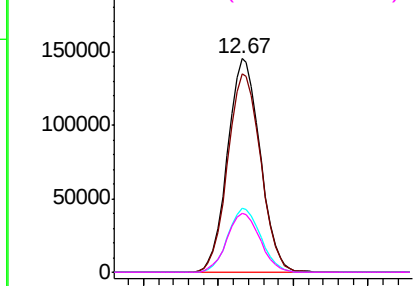
#67  
 1,3,5-Trichlorobenzene  
 Concen: 45.065 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion:180 Resp: 220174  
 Ion Ratio Lower Upper  
 180 100  
 182 93.9 76.8 115.2  
 184 30.2 24.6 36.8  
 145 28.1 22.7 34.1

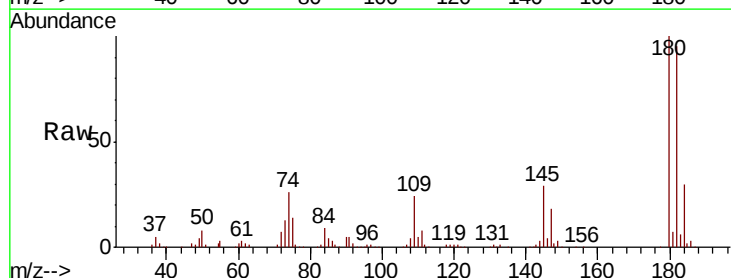


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

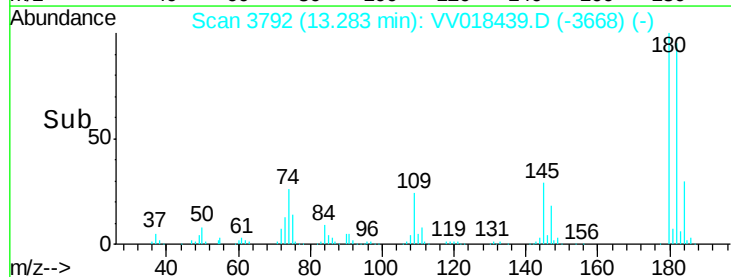
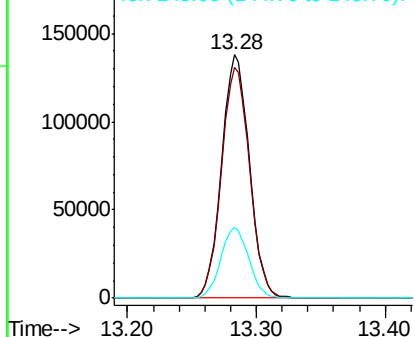


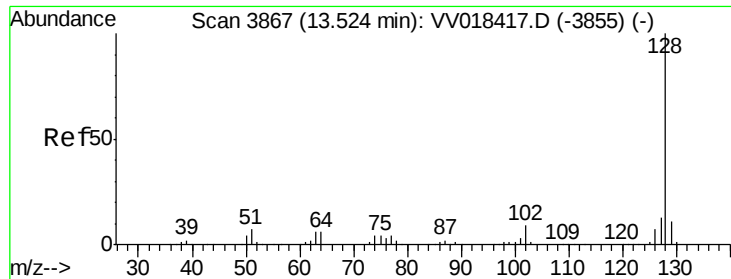
#68  
 1,2,4-trichlorobenzene  
 Concen: 47.572 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV018439.D  
 Acq: 24 Sep 2020 19:45

Tgt Ion:180 Resp: 206973  
 Ion Ratio Lower Upper  
 180 100  
 182 95.7 77.4 116.2  
 145 29.1 23.2 34.8



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





#69

Naphthalene

Concen: 55.525 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

Instrument :

MSVOA\_V

ClientSampled :

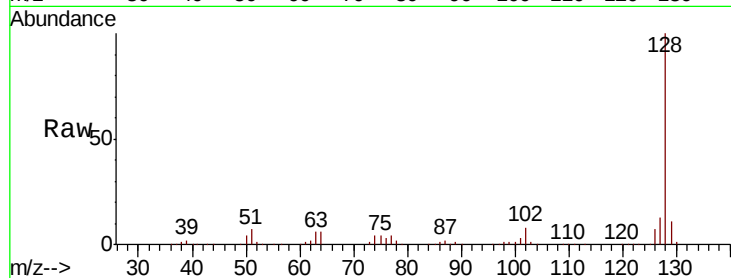
Tot Ion:128 Resp: 611267

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

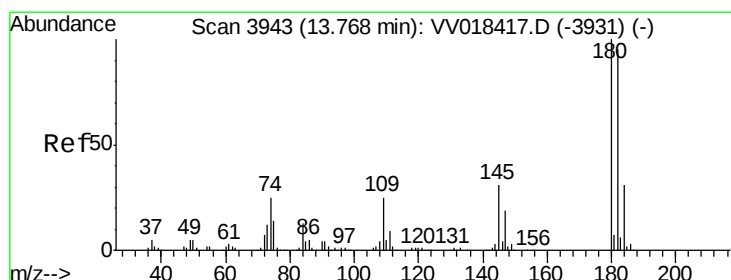
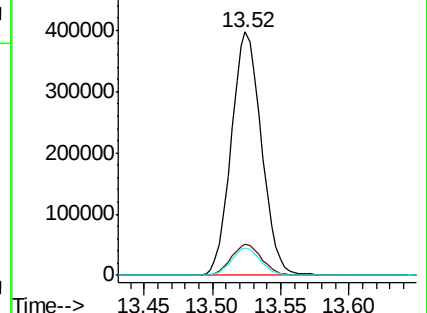
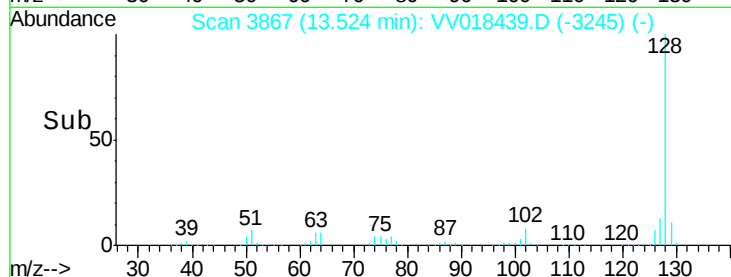
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.089 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV018439.D

Acq: 24 Sep 2020 19:45

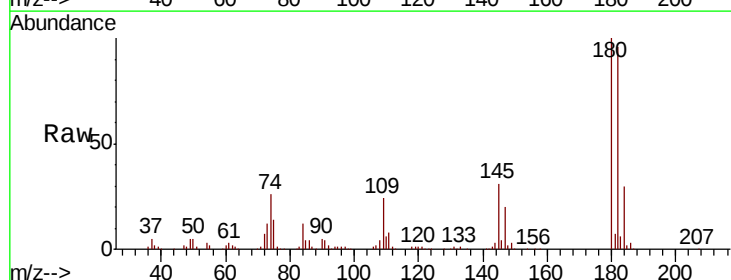
Tgt Ion:180 Resp: 206071

Ion Ratio Lower Upper

180 100

182 95.2 76.5 114.7

145 31.0 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

