

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092920\  
 Data File : VX018653.D  
 Acq On : 29 Sep 2020 13:25  
 Operator : JC/SP  
 Sample : L4135-16  
 Misc : 25.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 30 04:56:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SOMXTR092820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 30 04:47:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.83  | 114  | 267749   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.10 | 117  | 256144   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 123655   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 58826    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.00%  |
| 7) Chloroethane-d5             | 1.70   | 69    | 51113    | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.34   | 63    | 106114   | 3.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.60%  |
| 20) 2-Butanone-d5              | 4.54   | 46    | 185201   | 51.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.68% |
| 24) Chloroform-d               | 5.14   | 84    | 151857   | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40%  |
| 26) 1,2-Dichloroethane-d4      | 6.03   | 65    | 85612    | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.60%  |
| 32) Benzene-d6                 | 6.05   | 84    | 276128   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 36) 1,2-Dichloropropane-d6     | 7.37   | 67    | 88542    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.20%  |
| 41) Toluene-d8                 | 8.70   | 98    | 259079   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.00%  |
| 45) trans-1,3-Dichloropropene- | 8.99   | 79    | 35196    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80%  |
| 48) 2-Hexanone-d5              | 9.43   | 63    | 143604   | 50.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.10% |
| 59) 1,1,2,2-Tetrachloroethane- | 11.23  | 84    | 63229    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.20%  |
| 65) 1,2-Dichlorobenzene-d4     | 12.36  | 152   | 97866    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.80%  |

## Target Compounds

|                             |       |     |        |              | Ovalue |
|-----------------------------|-------|-----|--------|--------------|--------|
| 3) Chloromethane            | 1.31  | 50  | 1717   | 0.124 ug/L # | 81     |
| 5) Vinyl chloride           | 1.39  | 62  | 1144   | 0.079 ug/L # | 1      |
| 8) Chloroethane             | 1.61  | 64  | 43686  | 5.480 ug/L # | 54     |
| 13) Acetone                 | 2.45  | 43  | 8956   | 4.529 ug/L   | 97     |
| 14) Carbon disulfide        | 2.55  | 76  | 3316   | 0.083 ug/L   | 99     |
| 15) Methyl Acetate          | 2.76  | 43  | 1099   | 0.201 ug/L   | 94     |
| 16) Methylene chloride      | 2.84  | 84  | 1916   | 0.107 ug/L   | 95     |
| 17) Methyl tert-butyl Ether | 3.18  | 73  | 2226   | 0.077 ug/L # | 1      |
| 19) 1,1-Dichloroethane      | 3.67  | 63  | 2460   | 0.105 ug/L   | 88     |
| 22) cis-1,2-Dichloroethene  | 4.58  | 96  | 2996   | 0.220 ug/L # | 52     |
| 33) Benzene                 | 6.12  | 78  | 9998   | 0.202 ug/L   | 100    |
| 42) Toluene                 | 8.77  | 91  | 4853   | 0.091 ug/L   | 84     |
| 53) Chlorobenzene           | 10.12 | 112 | 227354 | 6.452 ug/L   | 98     |
| 55) m,p-xylene              | 10.35 | 106 | 1711   | 0.077 ug/L   | 87     |
| 56) o-xylene                | 10.68 | 106 | 1616   | 0.077 ug/L   | 59     |
| 58) Isopropylbenzene        | 11.00 | 105 | 10907  | 0.194 ug/L # | 93     |
| 64) 1,4-Dichlorobenzene     | 12.08 | 146 | 38266  | 1.409 ug/L   | 94     |

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Sep 30 04:56:12 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SOMXTR092820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Sep 30 04:47:32 2020  
Response via : Initial Calibration

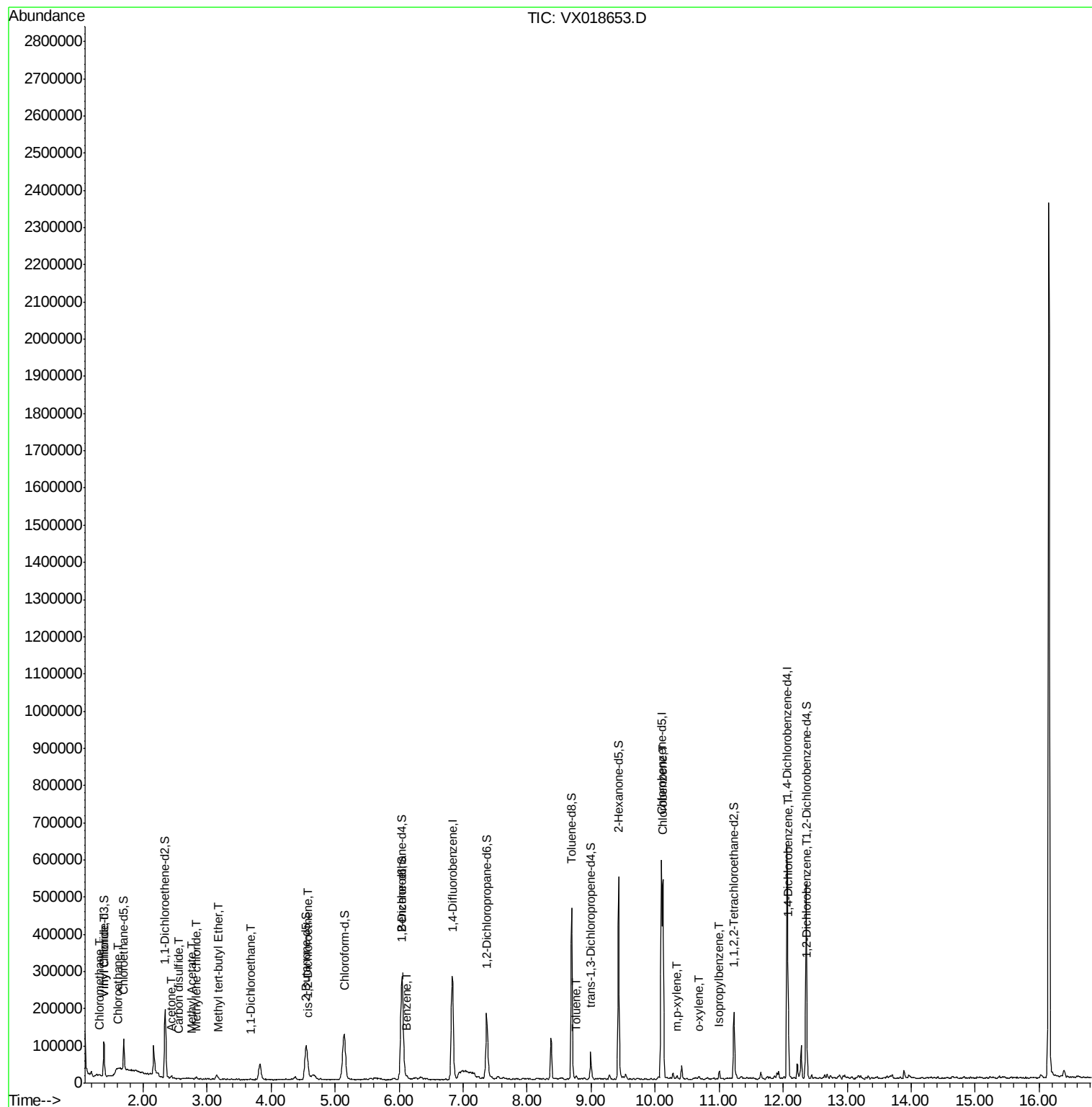
| Internal Standards      | R.T.  | QIon  | Response | Conc  | Units  | Dev(Min) |
|-------------------------|-------|-------|----------|-------|--------|----------|
| -----                   | ----- | ----- | -----    | ----- | -----  | -----    |
| 66) 1,2-Dichlorobenzene | 12.38 | 146   | 7900     | 0.315 | ug/L # | 82       |
| -----                   | ----- | ----- | -----    | ----- | -----  | -----    |

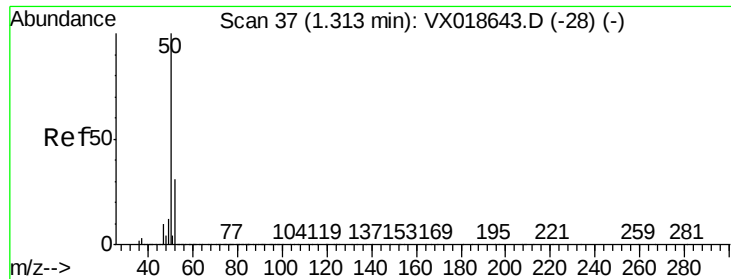
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.124 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :

MSVOA\_X

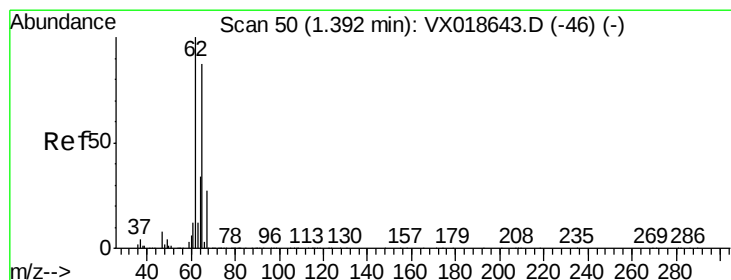
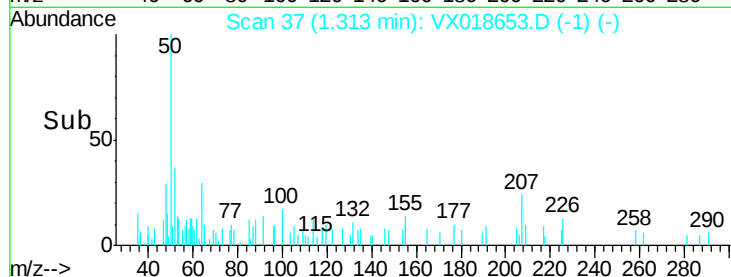
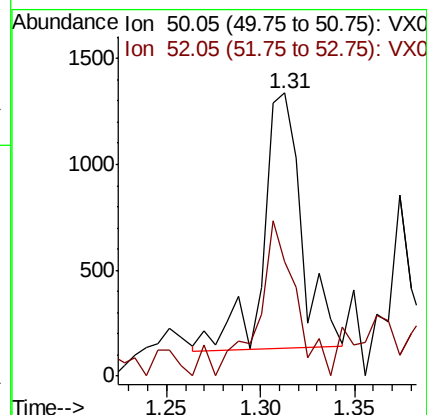
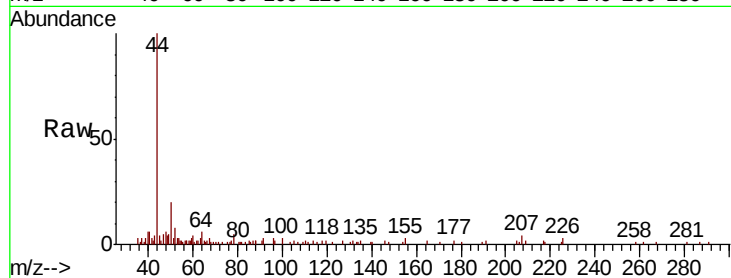
ClientSampleId :

Tot Ion: 50 Resp: 1717

Ion Ratio Lower Upper

50 100

52 40.6 21.2 39.4#



#5

Vinyl chloride

Concen: 0.079 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018653.D

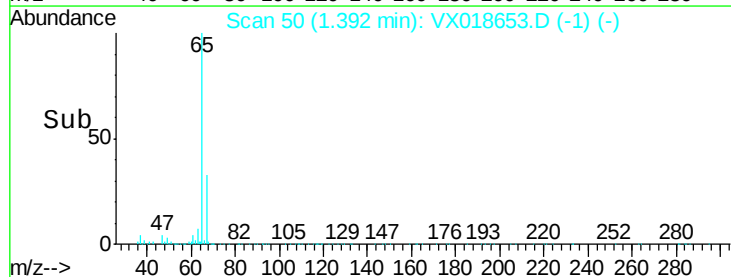
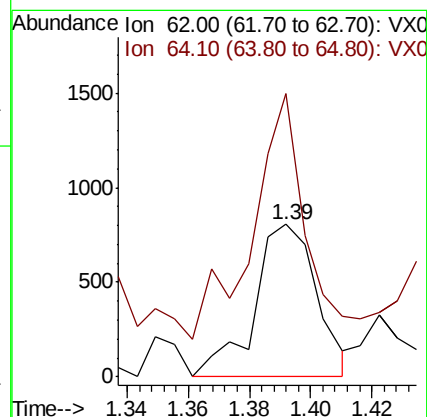
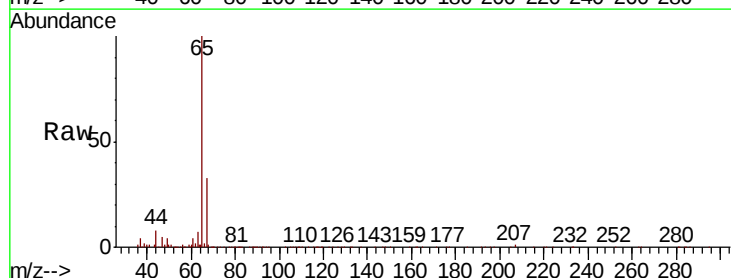
Acq: 29 Sep 2020 13:25

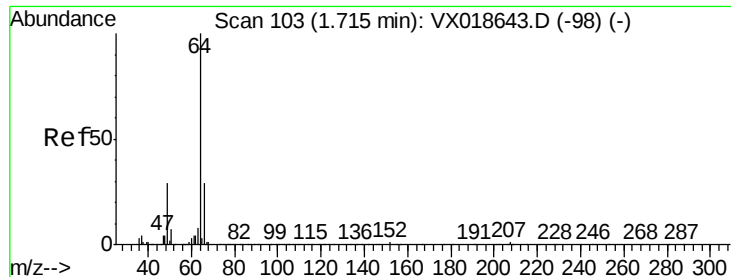
Tgt Ion: 62 Resp: 1144

Ion Ratio Lower Upper

62 100

64 185.8 23.6 43.8#

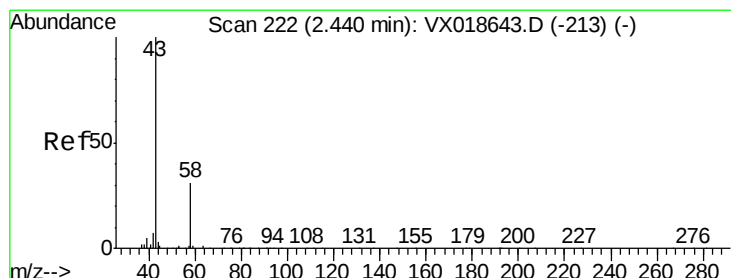
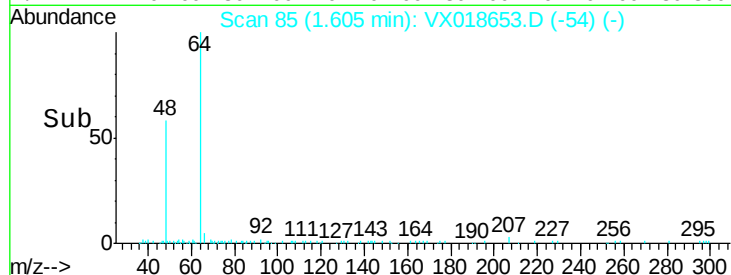
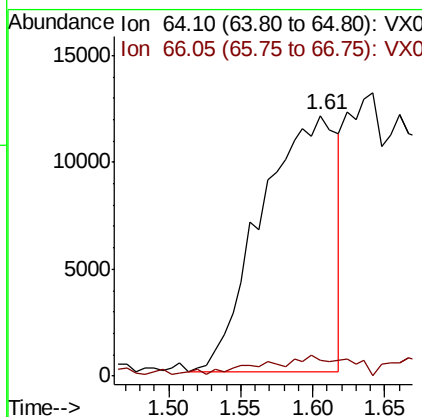
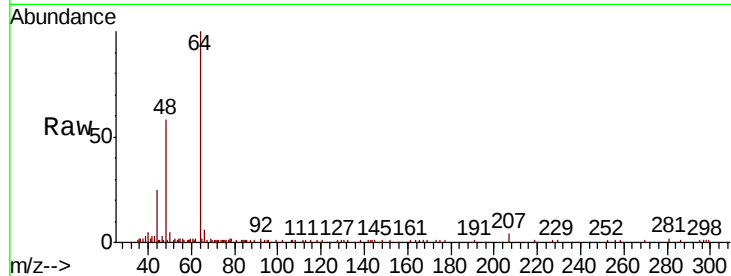




#8  
Chloroethane  
Concen: 5.480 ug/L  
RT: 1.61 min Scan# 85  
Delta R.T. -0.11 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

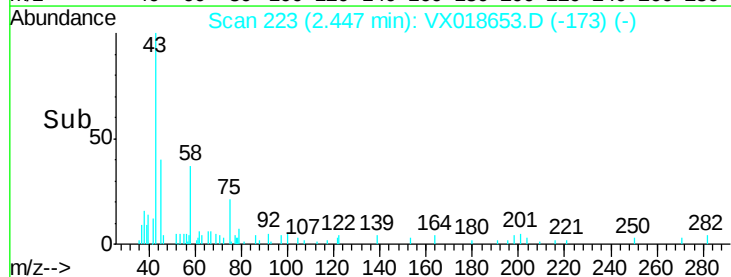
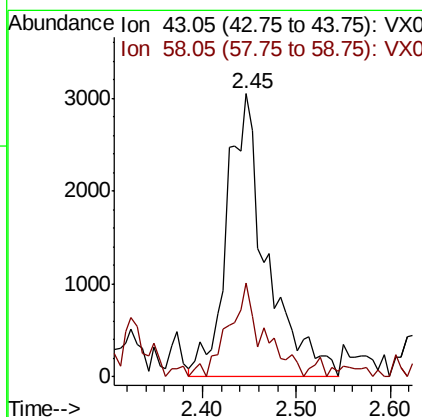
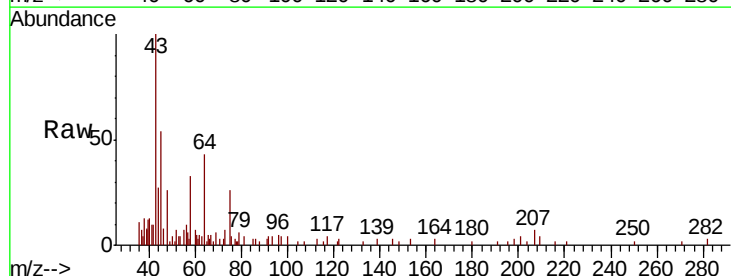
Instrument :  
MSVOA\_X  
ClientSampleId :

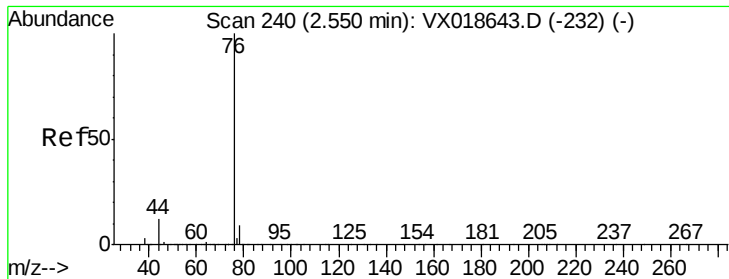
Tot Ion: 64 Resp: 43686  
Ion Ratio Lower Upper  
64 100  
66 6.0 22.3 41.3#



#13  
Acetone  
Concen: 4.529 ug/L  
RT: 2.45 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

Tgt Ion: 43 Resp: 8956  
Ion Ratio Lower Upper  
43 100  
58 29.2 0.0 61.6





#14

Carbon disulfide

Concen: 0.083 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :

MSVOA\_X

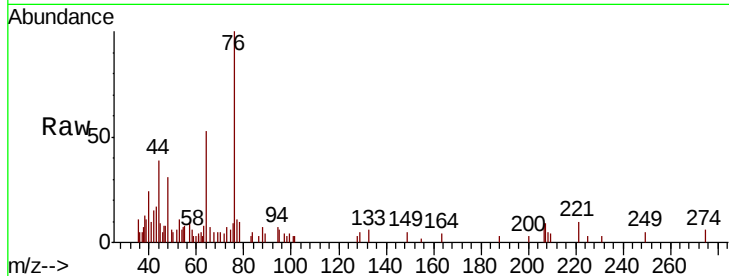
ClientSampled :

Tot Ion: 76 Resp: 3316

Ion Ratio Lower Upper

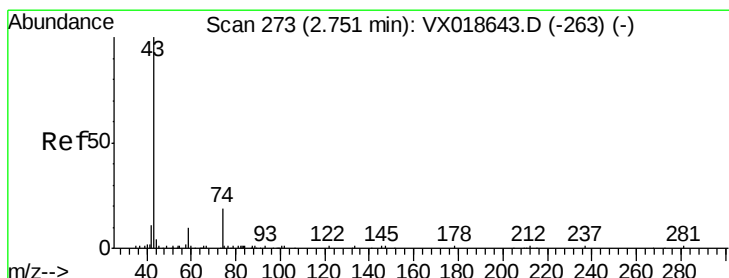
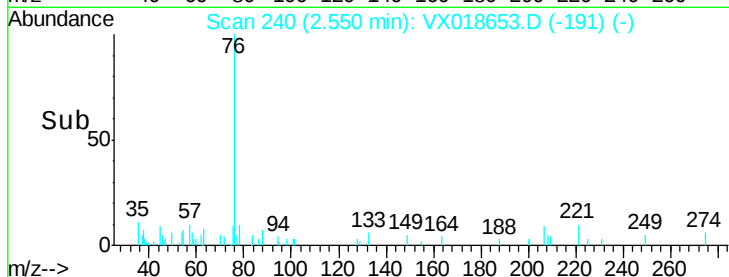
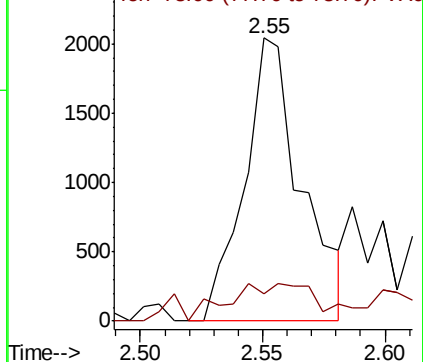
76 100

78 9.6 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 0.201 ug/L

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX018653.D

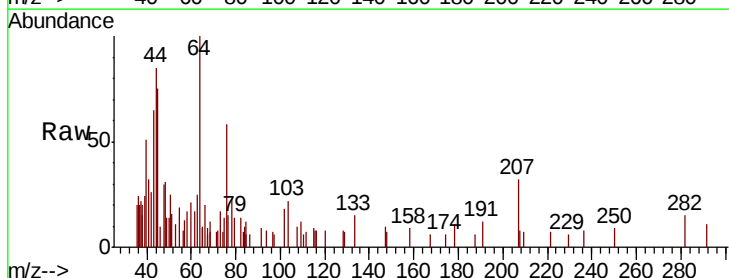
Acq: 29 Sep 2020 13:25

Tgt Ion: 43 Resp: 1099

Ion Ratio Lower Upper

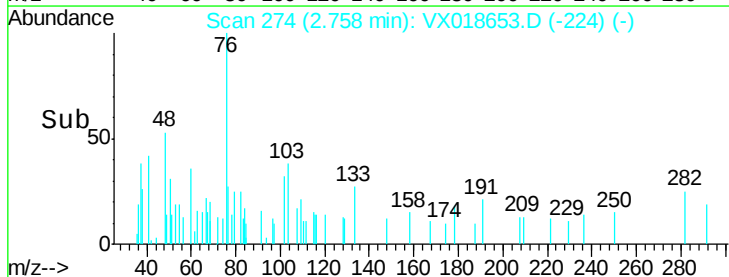
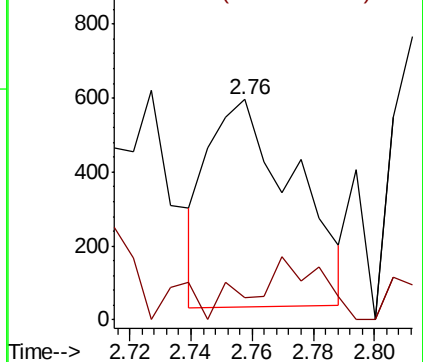
43 100

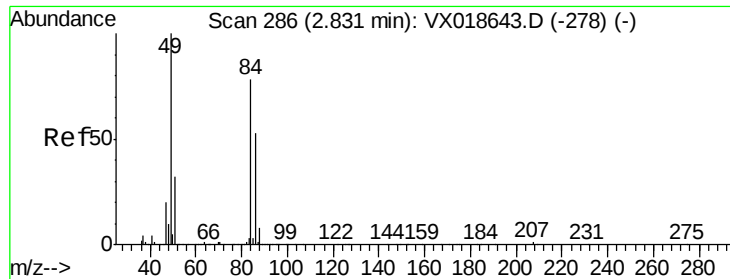
74 23.7 21.2 31.8



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

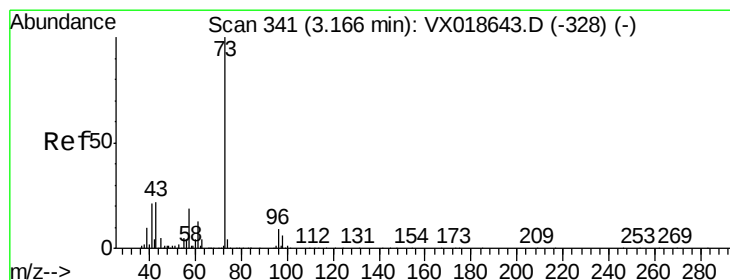
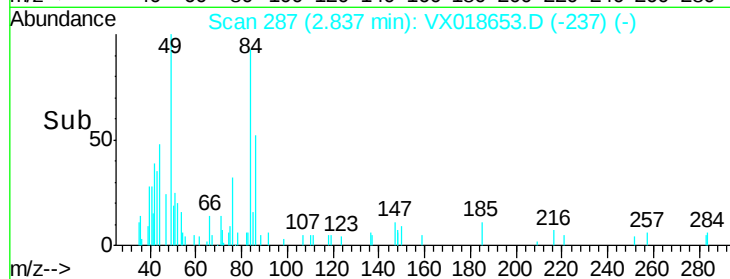
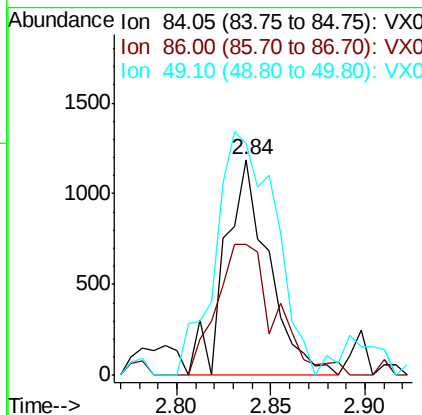
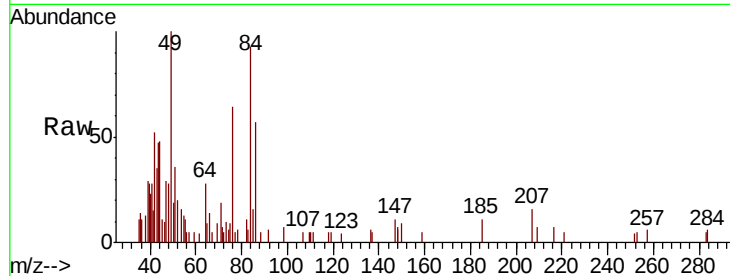




#16  
Methvlene chloride  
Concen: 0.107 ug/L  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

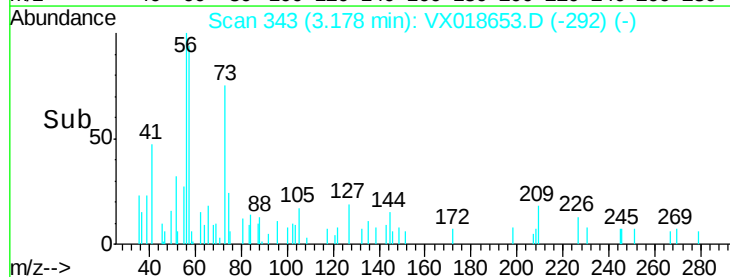
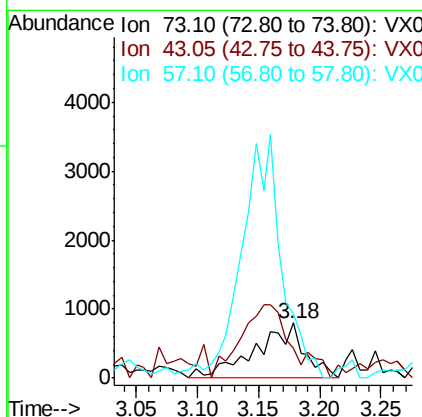
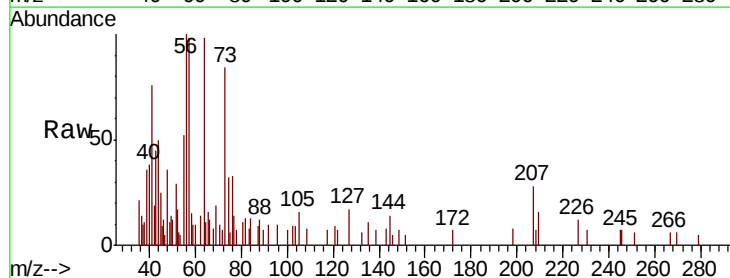
Instrument :  
MSVOA\_X  
ClientSampleId :

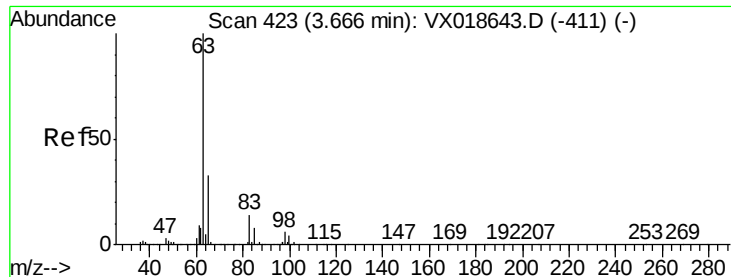
Tot Ion: 84 Resp: 1916  
Ion Ratio Lower Upper  
84 100  
86 60.9 41.9 77.7  
49 107.7 80.8 150.2



#17  
Methyl tert-butyl Ether  
Concen: 0.077 ug/L  
RT: 3.18 min Scan# 343  
Delta R.T. 0.01 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

Tgt Ion: 73 Resp: 2226  
Ion Ratio Lower Upper  
73 100  
43 123.3 18.6 27.8#  
57 360.8 17.3 25.9#





#19

1,1-Dichloroethane

Concen: 0.105 ug/L

RT: 3.67 min Scan# 424

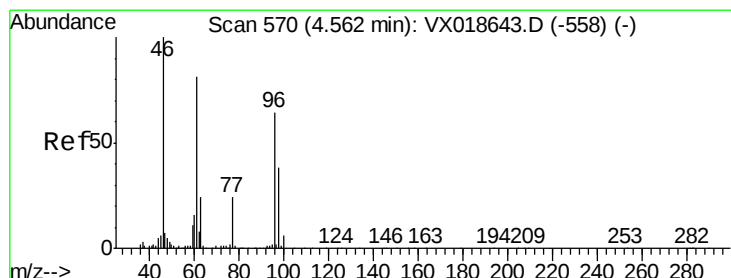
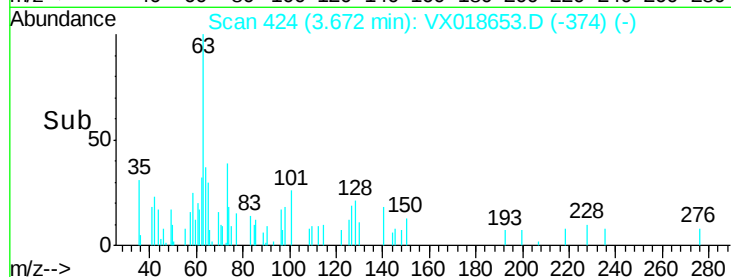
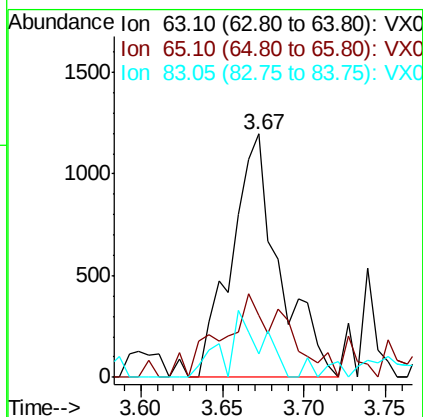
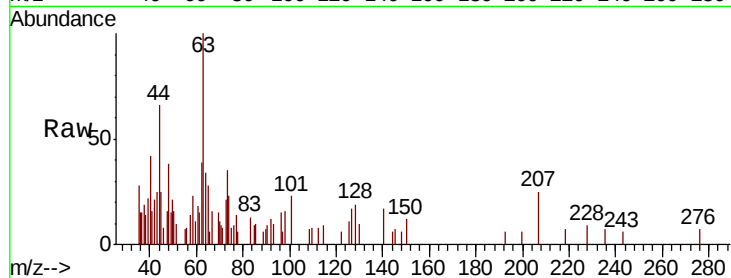
Delta R.T. 0.01 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 2460  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 25.4  | 22.7  | 42.1  |
| 83       | 9.4   | 9.3   | 17.3  |



#22

cis-1,2-Dichloroethene

Concen: 0.220 ug/L

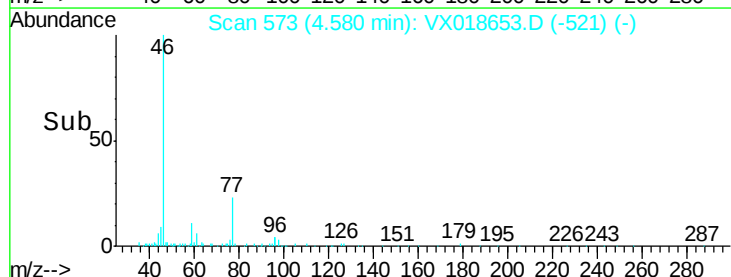
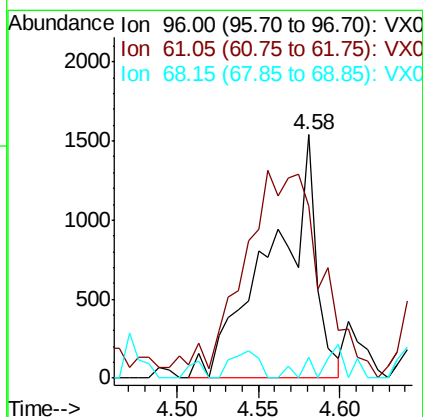
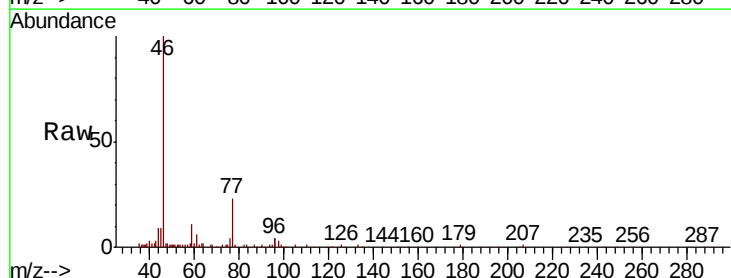
RT: 4.58 min Scan# 573

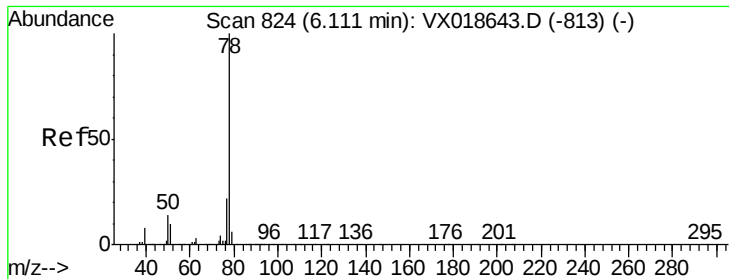
Delta R.T. 0.02 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 2996   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 70.7  | 87.7  | 162.9# |
| 68       | 8.6   | 0.3   | 0.7#   |

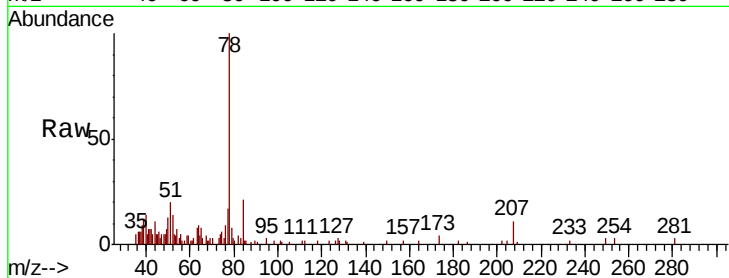




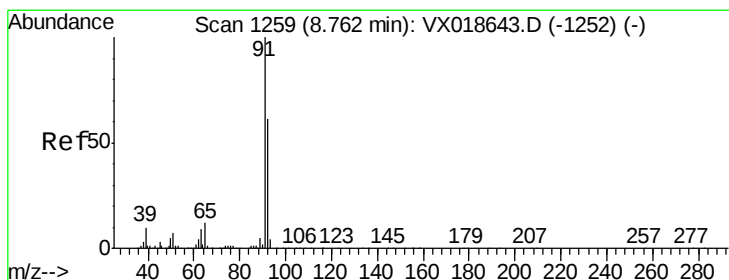
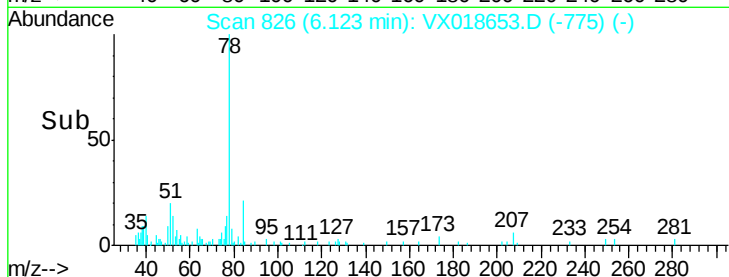
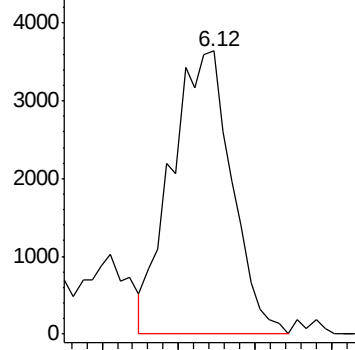
#33  
Benzene  
Concen: 0.202 ug/L  
RT: 6.12 min Scan# 826  
Delta R.T. 0.01 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 78 Resp: 9998

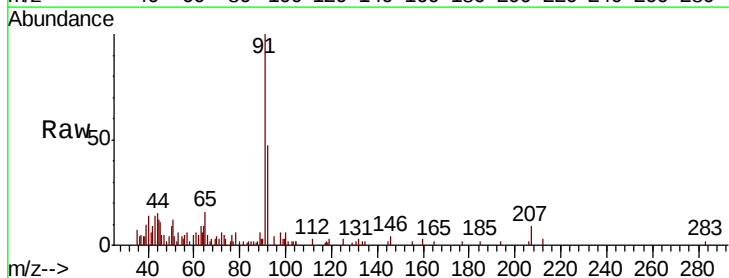


Abundance Ion 78.10 (77.80 to 78.80): VX0

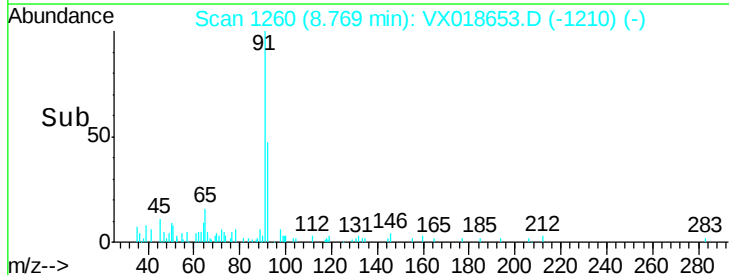
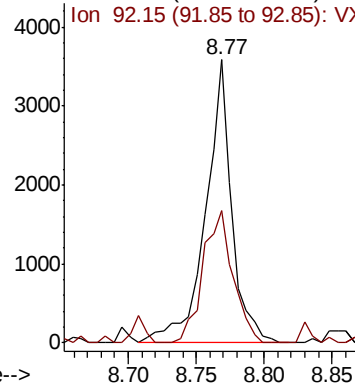


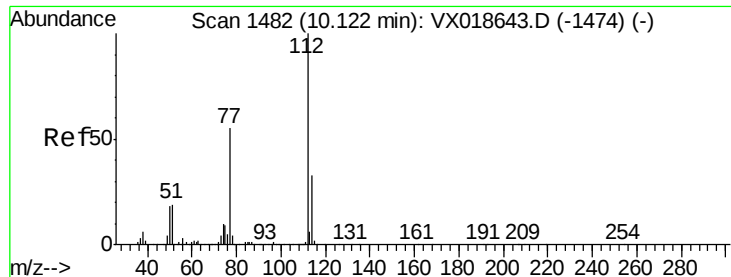
#42  
Toluene  
Concen: 0.091 ug/L  
RT: 8.77 min Scan# 1260  
Delta R.T. 0.01 min  
Lab File: VX018653.D  
Acq: 29 Sep 2020 13:25

Tgt Ion: 91 Resp: 4853  
Ion Ratio Lower Upper  
91 100  
92 46.9 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VX0





#53

Chlorobenzene

Concen: 6.452 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :

MSVOA\_X

ClientSampleId :

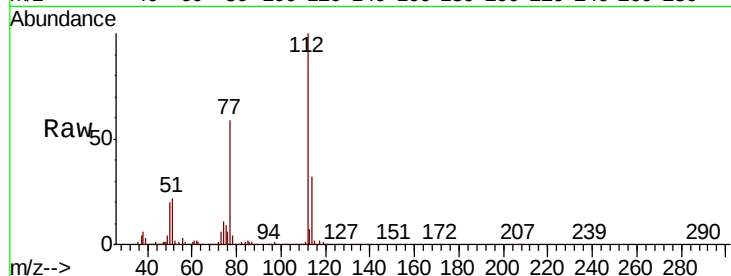
Tot Ion:112 Resp: 227354

Ion Ratio Lower Upper

112 100

114 31.7 20.6 38.4

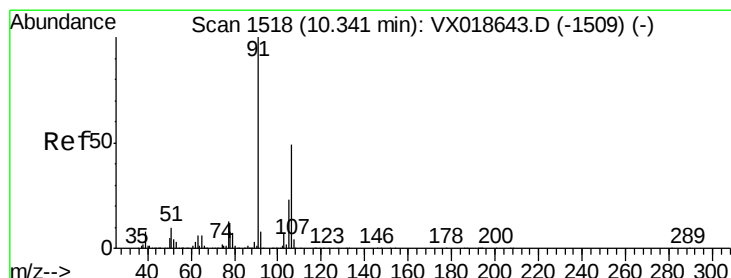
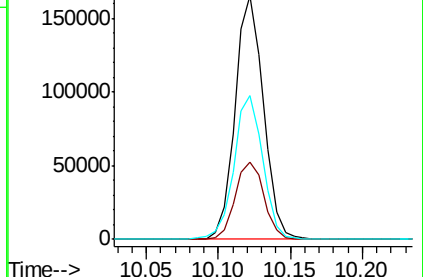
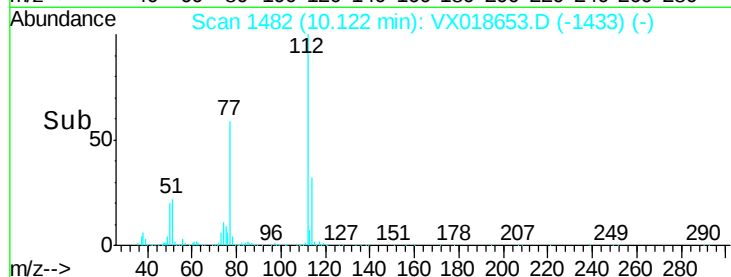
77 59.1 46.6 69.8



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): VX0



#55

m,p-xylene

Concen: 0.077 ug/L

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX018653.D

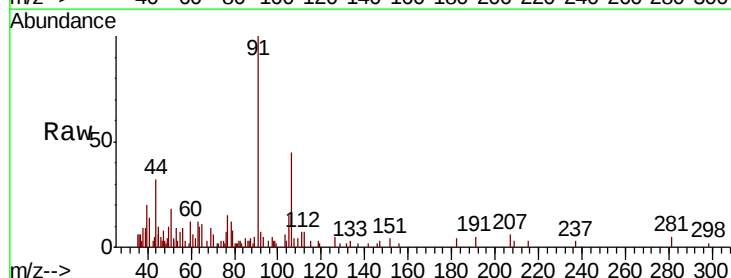
Acq: 29 Sep 2020 13:25

Tgt Ion:106 Resp: 1711

Ion Ratio Lower Upper

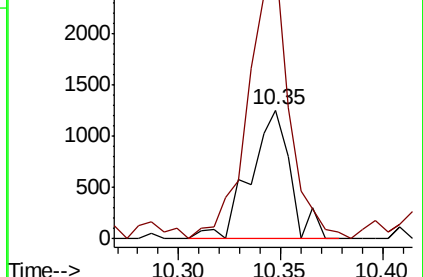
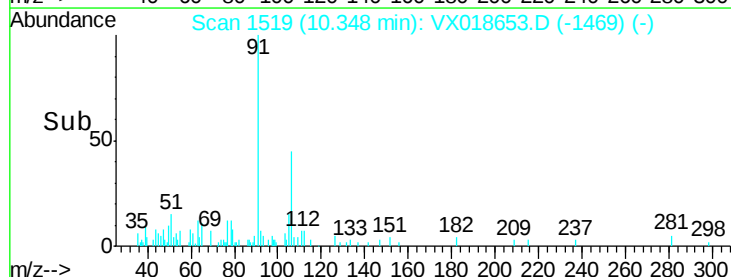
106 100

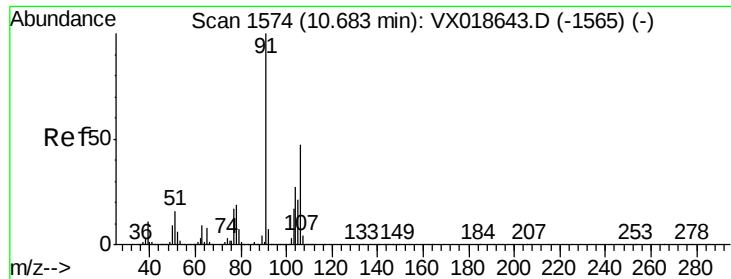
91 220.3 140.3 260.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#56

o-xylene

Concen: 0.077 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :

MSVOA\_X

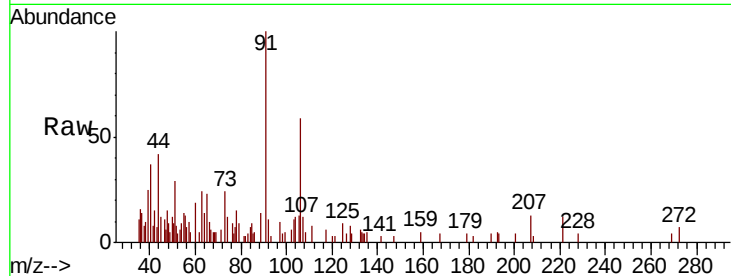
ClientSampleId :

Tot Ion:106 Resp: 1616

Ion Ratio Lower Upper

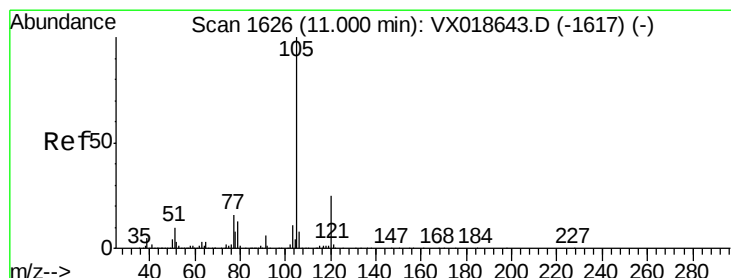
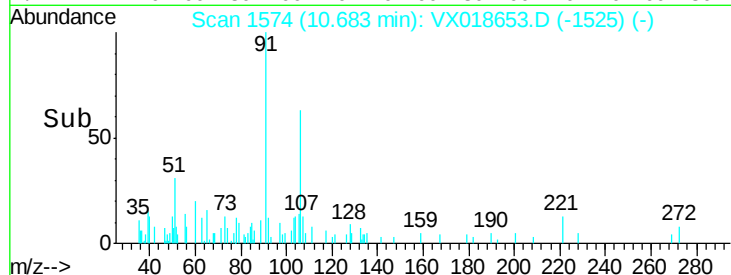
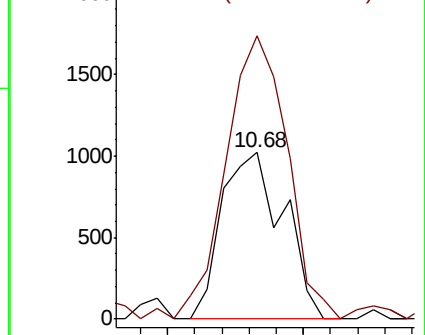
106 100

91 170.0 167.5 311.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#58

Isopropylbenzene

Concen: 0.194 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

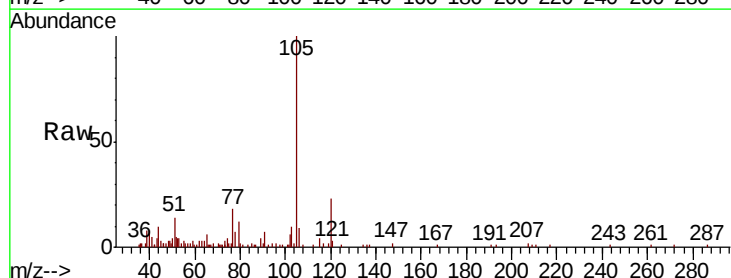
Tgt Ion:105 Resp: 10907

Ion Ratio Lower Upper

105 100

120 24.8 21.2 31.8

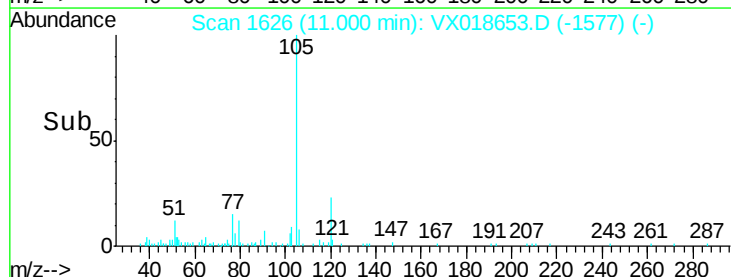
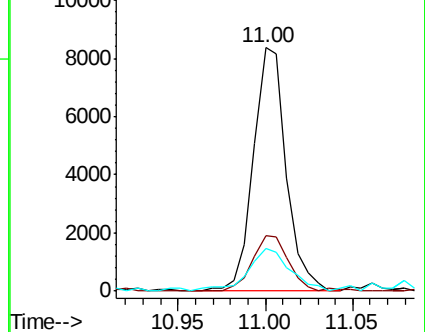
77 22.3 13.3 19.9#

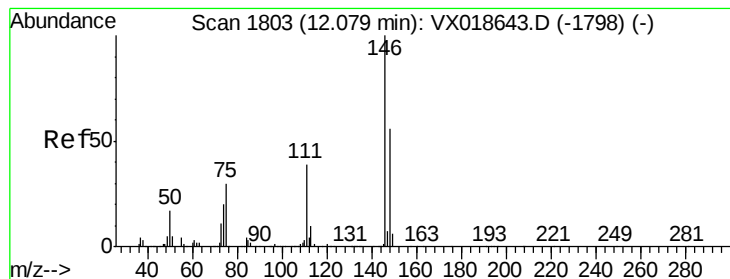


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0





#64

1,4-Dichlorobenzene

Concen: 1.409 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

Instrument :

MSVOA\_X

ClientSampleId :

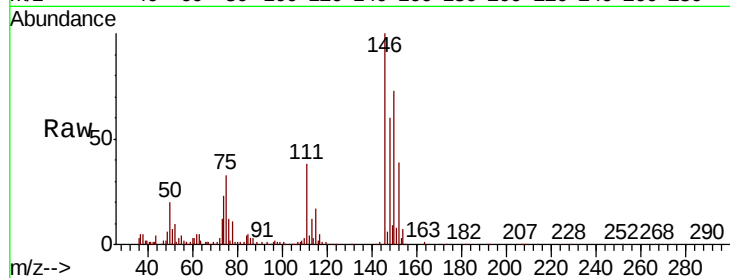
Tot Ion:146 Resp: 38266

Ion Ratio Lower Upper

146 100

111 37.6 28.8 53.4

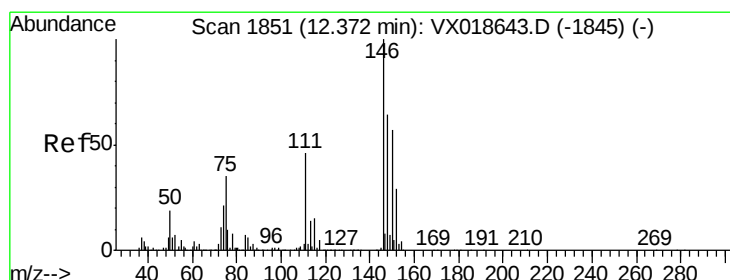
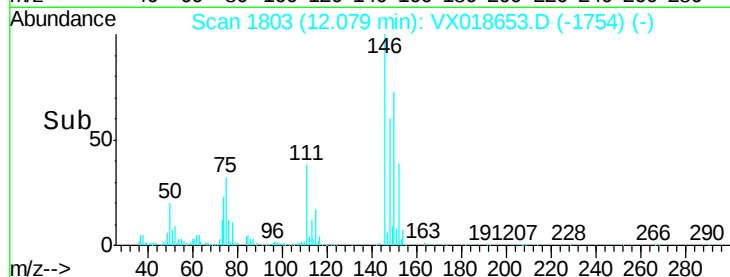
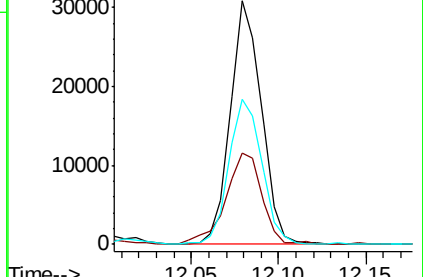
148 59.8 44.9 83.3



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



#66

1,2-Dichlorobenzene

Concen: 0.315 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VX018653.D

Acq: 29 Sep 2020 13:25

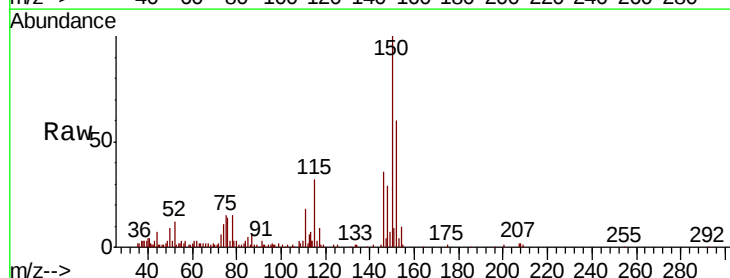
Tgt Ion:146 Resp: 7900

Ion Ratio Lower Upper

146 100

111 51.4 33.6 50.4#

148 82.4 53.4 80.2#



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

