

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092120\  
 Data File : VX018523.D  
 Acq On : 22 Sep 2020 14:28  
 Operator : JC/SP  
 Sample : MDL03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL01

Quant Time: Sep 23 01:53:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SFAMXLM092120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 23 01:46:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.84  | 114  | 584800   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.10 | 117  | 572033   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 274189   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 195388   | 50.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.58% |
| 7) Chloroethane-d5             | 1.70    | 69    | 149548   | 50.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.88% |
| 11) 1,1-Dichloroethene-d2      | 2.34    | 63    | 313606   | 39.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.40%  |
| 21) 2-Butanone-d5              | 4.54    | 46    | 276718   | 107.32   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.32% |
| 24) Chloroform-d               | 5.14    | 84    | 405233   | 54.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.96% |
| 26) 1,2-Dichloroethane-d4      | 6.03    | 65    | 295865   | 52.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.70% |
| 32) Benzene-d6                 | 6.05    | 84    | 785711   | 52.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.92% |
| 36) 1,2-Dichloropropane-d6     | 7.37    | 67    | 249959   | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 108.22% |
| 41) Toluene-d8                 | 8.70    | 98    | 718361   | 49.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.02%  |
| 43) trans-1,3-Dichloropropene- | 8.99    | 79    | 132500   | 49.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.88%  |
| 47) 2-Hexanone-d5              | 9.43    | 63    | 199887   | 104.12   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.12% |
| 56) 1,1,2,2-Tetrachloroethane- | 11.23   | 84    | 319797   | 51.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.42% |
| 66) 1,2-Dichlorobenzene-d4     | 12.36   | 152   | 290644   | 54.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.96% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.18 | 85   | 11561    | 2.296 | ug/L   | 89     |
| 3) Chloromethane               | 1.31 | 50   | 10349    | 2.692 | ug/L   | 88     |
| 6) Bromomethane                | 1.64 | 94   | 6194     | 2.718 | ug/L   | 83     |
| 8) Chloroethane                | 1.72 | 64   | 6189     | 2.464 | ug/L   | 95     |
| 9) Trichlorofluoromethane      | 1.92 | 101  | 17184    | 2.380 | ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.37 | 101  | 12570    | 3.202 | ug/L # | 82     |
| 13) Acetone                    | 2.44 | 43   | 8880     | 4.682 | ug/L   | 100    |
| 14) Carbon disulfide           | 2.55 | 76   | 27621    | 2.466 | ug/L   | 97     |
| 15) Methyl Acetate             | 2.75 | 43   | 9693     | 2.408 | ug/L # | 89     |
| 16) Methylene chloride         | 2.84 | 84   | 12565    | 3.113 | ug/L   | 90     |
| 17) trans-1,2-Dichloroethene   | 3.15 | 96   | 9526     | 2.457 | ug/L # | 90     |
| 18) Methyl tert-butyl Ether    | 3.17 | 73   | 27079    | 2.168 | ug/L # | 88     |
| 19) 1,1-Dichloroethane         | 3.67 | 63   | 16411    | 2.277 | ug/L   | 95     |
| 22) 2-Butanone                 | 4.65 | 43   | 11919    | 4.139 | ug/L   | 94     |
| 23) Bromochloromethane         | 4.99 | 128  | 6096     | 2.614 | ug/L # | 74     |
| 25) Chloroform                 | 5.17 | 83   | 37675    | 4.676 | ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 6.16 | 62   | 15042    | 2.333 | ug/L   | 97     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SFAMXLM092120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 23 01:46:10 2020  
 Response via : Initial Calibration

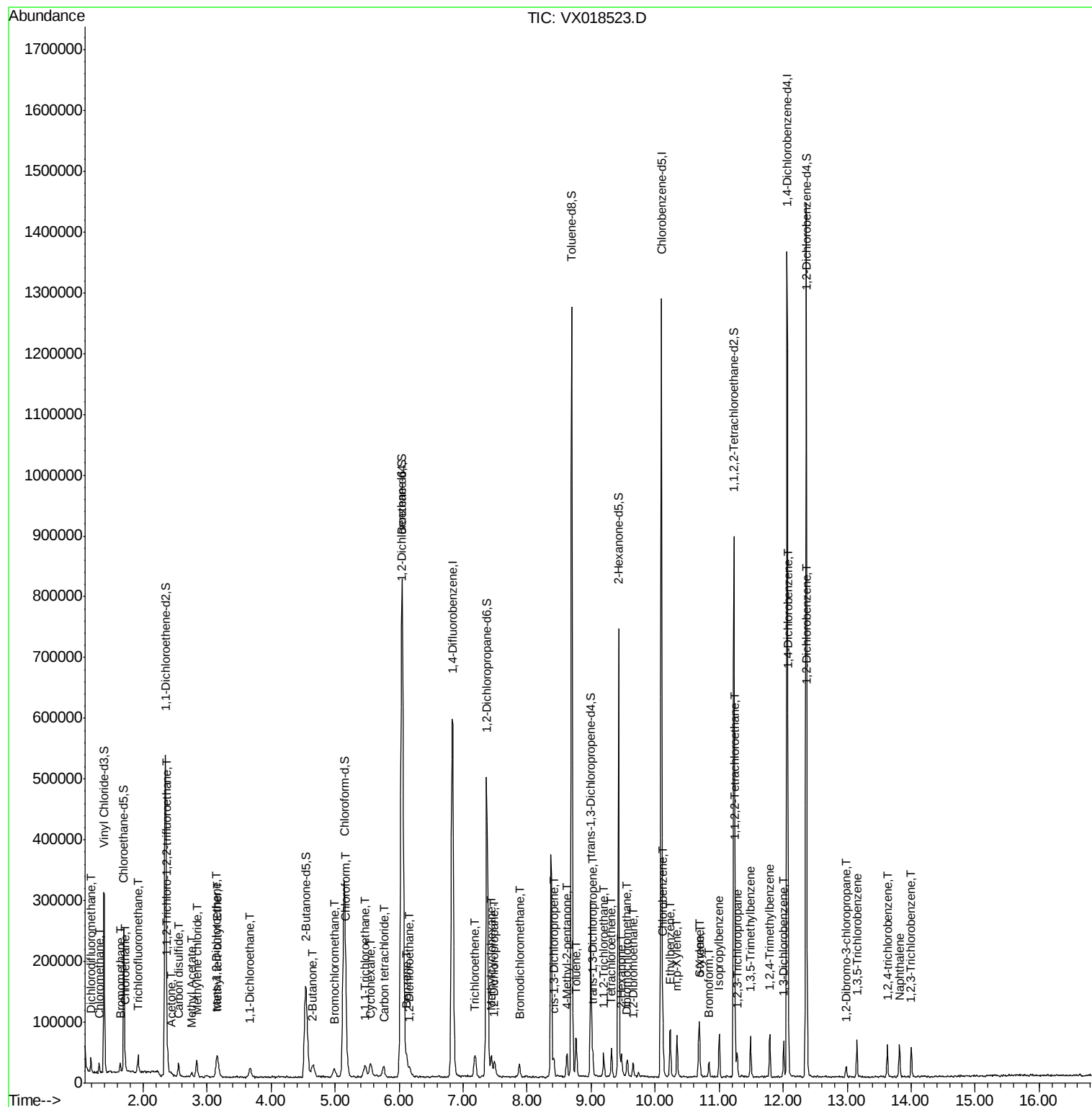
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 29) Cyclohexane                | 5.56  | 56   | 13190    | 2.102 | ug/L # | 64       |
| 30) 1,1,1-Trichloroethane      | 5.47  | 97   | 17092    | 2.224 | ug/L   | 96       |
| 31) Carbon tetrachloride       | 5.76  | 117  | 16321    | 2.351 | ug/L   | 96       |
| 33) Benzene                    | 6.12  | 78   | 37795    | 2.355 | ug/L   | 100      |
| 34) Trichloroethene            | 7.19  | 95   | 10321    | 2.305 | ug/L   | 93       |
| 35) Methylcyclohexane          | 7.44  | 83   | 13501    | 2.075 | ug/L   | 90       |
| 37) 1,2-Dichloropropane        | 7.49  | 63   | 10417    | 2.460 | ug/L # | 93       |
| 38) Bromodichloromethane       | 7.88  | 83   | 14493    | 2.384 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene    | 8.42  | 75   | 15189    | 2.222 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone       | 8.62  | 43   | 22521    | 4.010 | ug/L   | 99       |
| 42) Toluene                    | 8.77  | 91   | 38914    | 2.257 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene  | 9.02  | 75   | 15352    | 2.207 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 9.20  | 97   | 9307     | 2.269 | ug/L   | 95       |
| 46) Tetrachloroethene          | 9.32  | 164  | 9661     | 2.622 | ug/L # | 76       |
| 48) 2-Hexanone                 | 9.47  | 43   | 19496    | 4.407 | ug/L   | 98       |
| 49) Dibromochloromethane       | 9.56  | 129  | 11912    | 2.305 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 9.66  | 107  | 10578    | 2.345 | ug/L # | 87       |
| 51) Chlorobenzene              | 10.12 | 112  | 25848    | 2.232 | ug/L   | 92       |
| 52) Ethylbenzene               | 10.24 | 91   | 42929    | 2.236 | ug/L   | 97       |
| 53) m,p-Xylene                 | 10.34 | 106  | 15191    | 2.077 | ug/L   | 98       |
| 54) o-Xylene                   | 10.68 | 106  | 13366    | 1.897 | ug/L   | 97       |
| 55) Styrene                    | 10.70 | 104  | 23871    | 1.968 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 15224    | 2.425 | ug/L # | 97       |
| 59) Bromoform                  | 10.84 | 173  | 8396     | 2.322 | ug/L # | 91       |
| 60) Isopropylbenzene           | 11.01 | 105  | 37001    | 2.109 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 11.28 | 75   | 11425    | 2.310 | ug/L   | 90       |
| 62) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 27488    | 1.898 | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 27584    | 1.870 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene        | 12.01 | 146  | 18526    | 2.138 | ug/L   | 83       |
| 65) 1,4-Dichlorobenzene        | 12.08 | 146  | 21078    | 2.409 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 12.38 | 146  | 20723    | 2.484 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 3748     | 2.583 | ug/L # | 78       |
| 69) 1,3,5-Trimethylbenzene     | 13.15 | 180  | 14267    | 2.482 | ug/L   | 91       |
| 70) 1,2,4-trichlorobenzene     | 13.63 | 180  | 11472    | 2.175 | ug/L   | 97       |
| 71) Naphthalene                | 13.82 | 128  | 30263    | 1.838 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 11227    | 2.123 | ug/L   | 95       |
| -----                          |       |      |          |       |        |          |

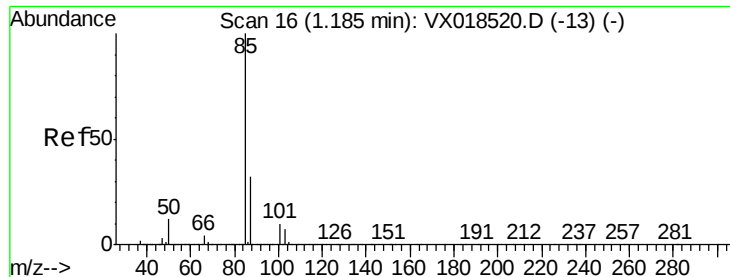
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092120\  
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ALS Vial : 32 Sample Multiplier: 1

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Quant Title : VOC Analysis  
QLast Update : Wed Sep 23 01:46:10 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.296 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

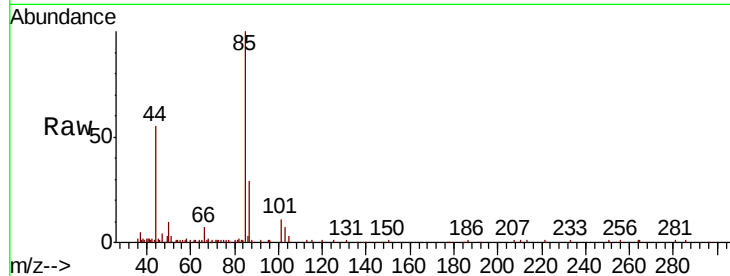
MDL01

Tot Ion: 85 Resp: 11561

Ion Ratio Lower Upper

85 100

87 39.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

15000

10000

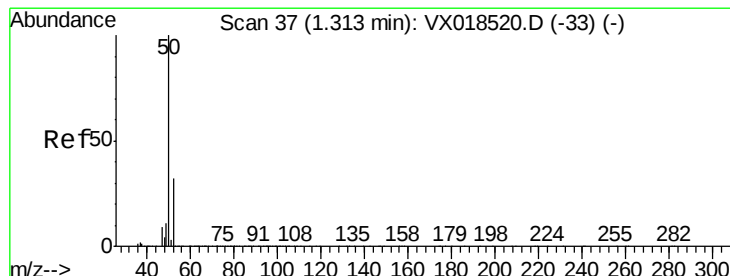
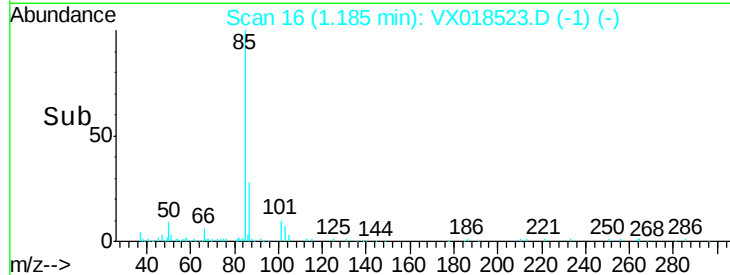
5000

0

Time-->

1.16 1.18 1.20 1.22

1.18



#3

Chloromethane

Concen: 2.692 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018523.D

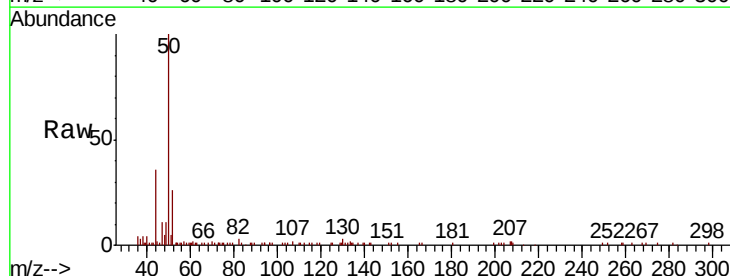
Acq: 22 Sep 2020 14:28

Tgt Ion: 50 Resp: 10349

Ion Ratio Lower Upper

50 100

52 26.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

12000

10000

8000

6000

4000

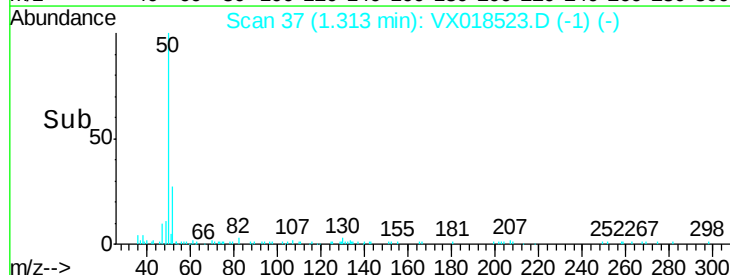
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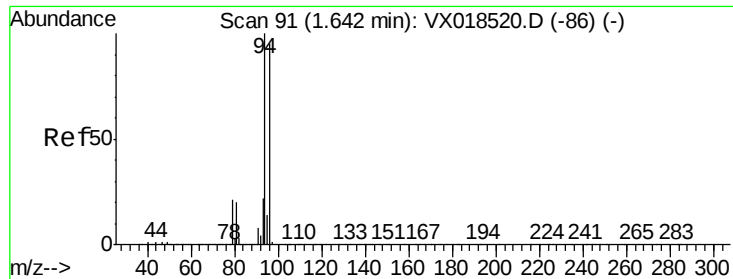
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Time-->

1.28 1.30 1.32 1.34

1.31





#6

Bromomethane

Concen: 2.718 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

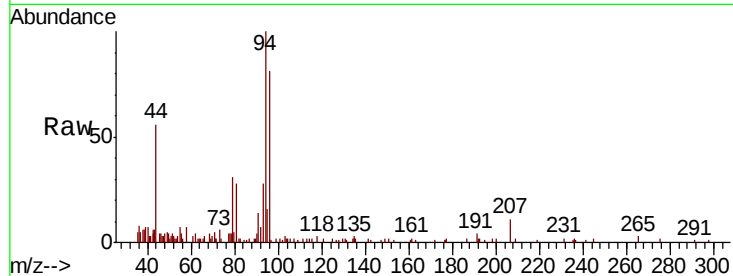
MDL01

Tot Ion: 94 Resp: 6194

Ion Ratio Lower Upper

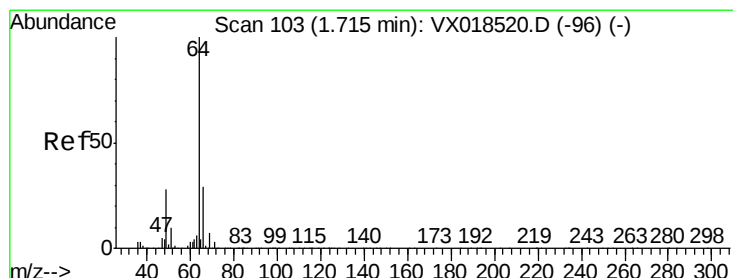
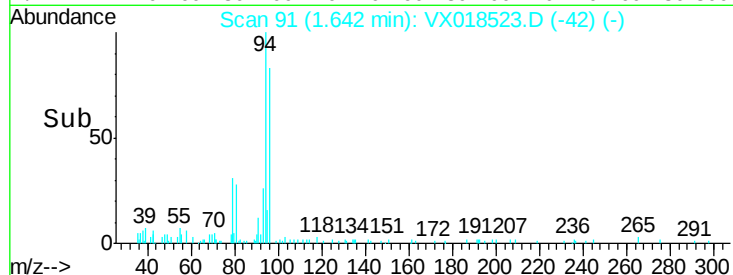
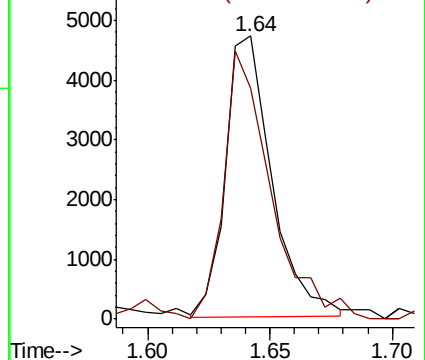
94 100

96 81.4 69.2 128.4



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#8

Chloroethane

Concen: 2.464 ug/L

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018523.D

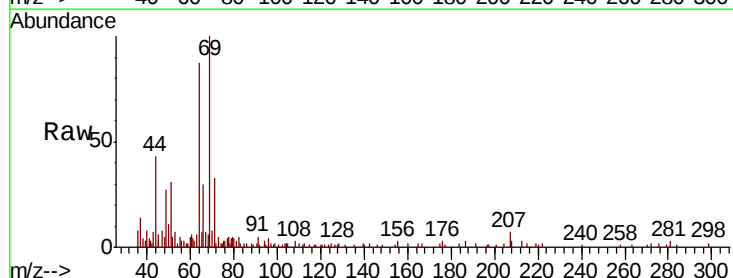
Acq: 22 Sep 2020 14:28

Tgt Ion: 64 Resp: 6189

Ion Ratio Lower Upper

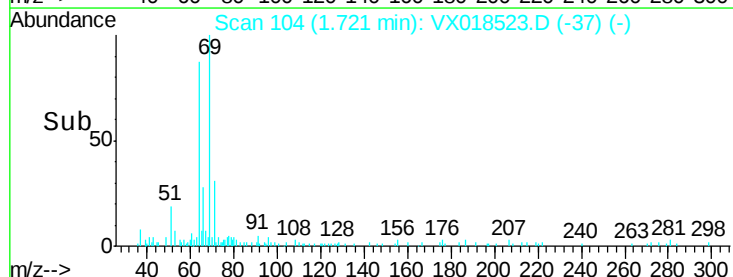
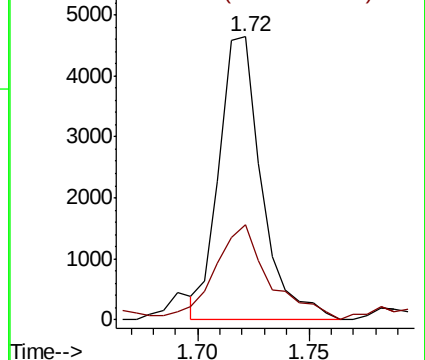
64 100

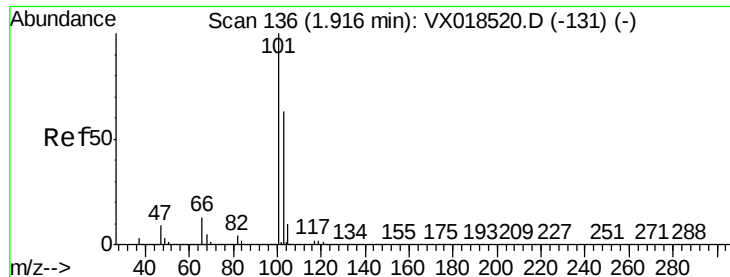
66 33.8 21.6 40.2



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



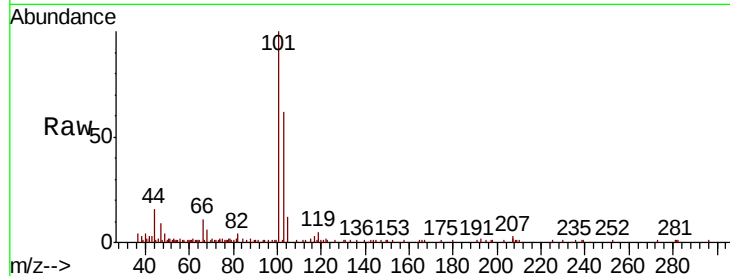


#9

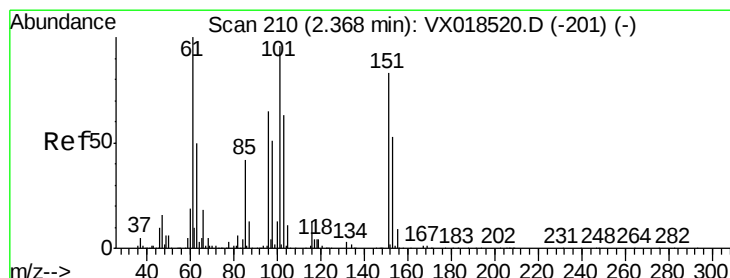
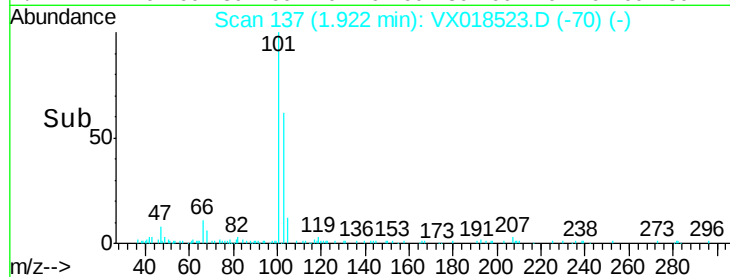
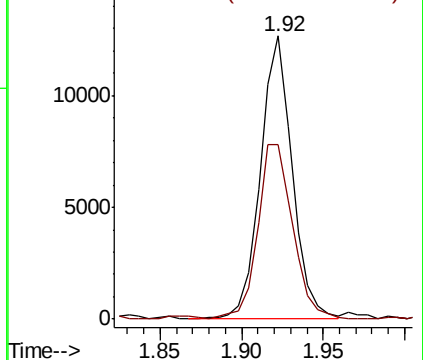
Trichlorofluoromethane  
Concen: 2.380 ug/L  
RT: 1.92 min Scan# 137  
Delta R.T. 0.01 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL01

Tot Ion:101 Resp: 17184  
Ion Ratio Lower Upper  
101 100  
103 68.1 51.5 77.3



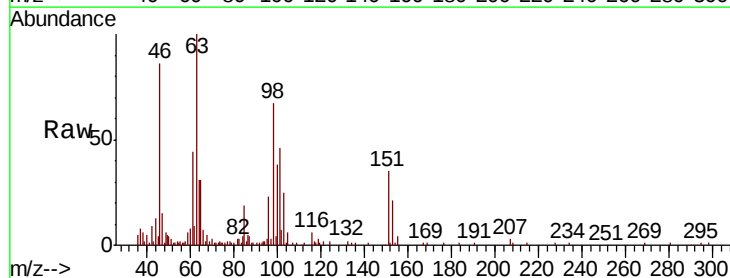
Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 103.00 (102.70 to 103.70): V



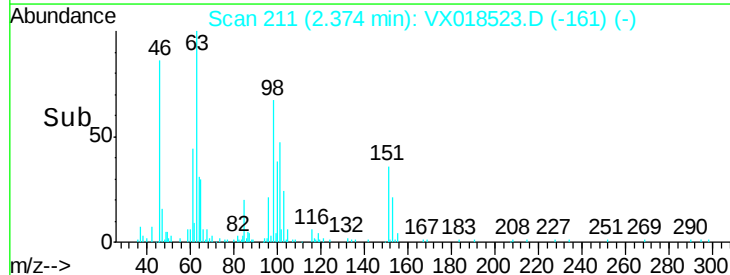
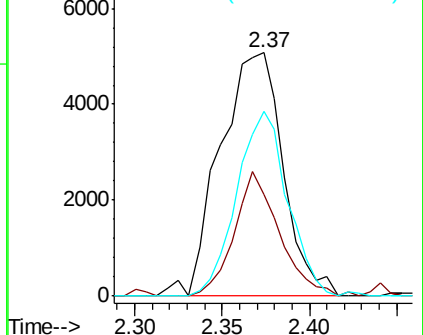
#10

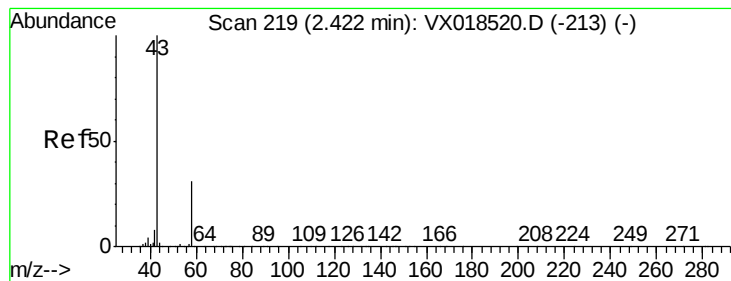
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 3.202 ug/L  
RT: 2.37 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

Tgt Ion:101 Resp: 12570  
Ion Ratio Lower Upper  
101 100  
85 36.8 34.9 52.3  
151 62.0 65.0 97.4#



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 85.00 (84.70 to 85.70): VX0  
Ion 151.00 (150.70 to 151.70): V





#13

Acetone

Concen: 4.682 ug/L

RT: 2.44 min Scan# 222

Delta R.T. 0.02 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

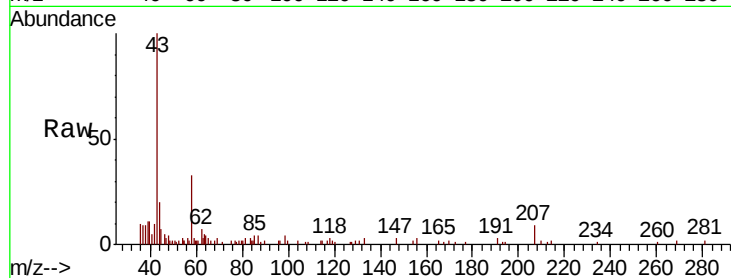
MDL01

Tot Ion: 43 Resp: 8880

Ion Ratio Lower Upper

43 100

58 28.9 0.0 57.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

4000

3000

2000

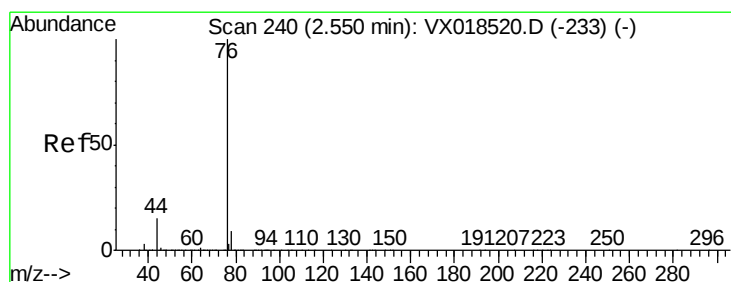
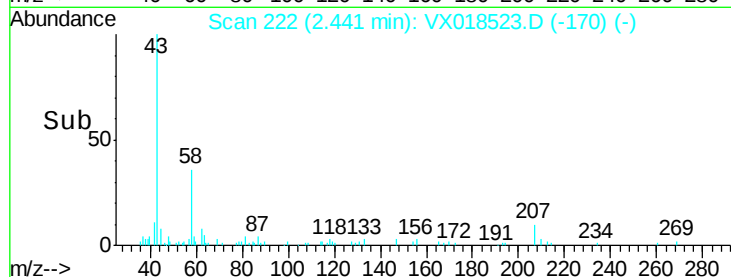
1000

0

Time-->

2.40

2.45



#14

Carbon disulfide

Concen: 2.466 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018523.D

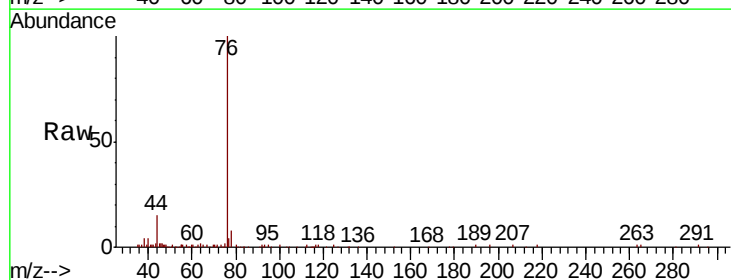
Acq: 22 Sep 2020 14:28

Tgt Ion: 76 Resp: 27621

Ion Ratio Lower Upper

76 100

78 8.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

20000

15000

10000

5000

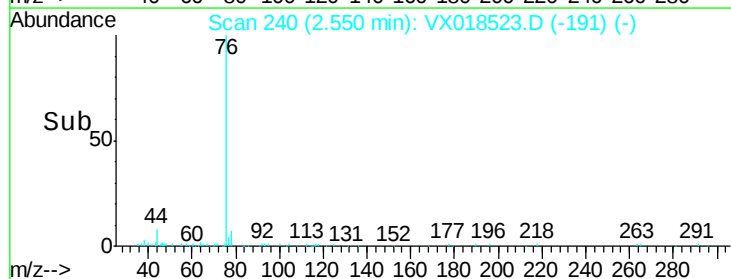
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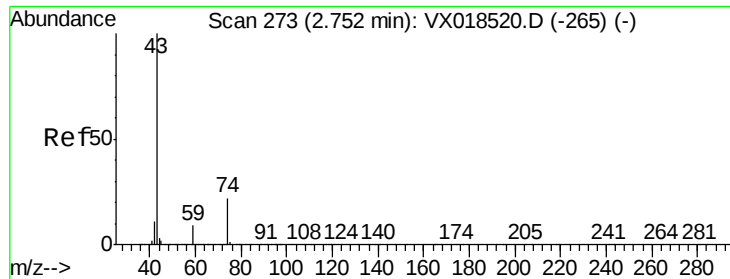
Time-->

2.50

2.55

2.60





#15

Methvl Acetate

Concen: 2.408 ug/L

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

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MSVOA\_X

ClientSampleId :

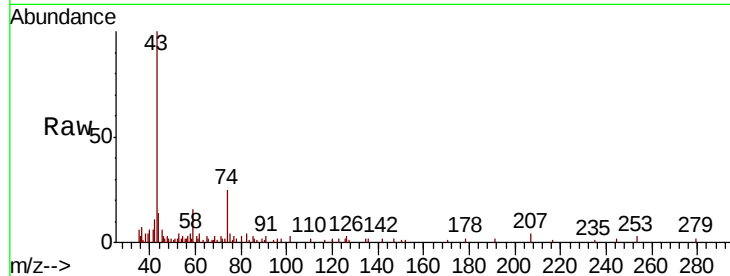
MDL01

Tot Ion: 43 Resp: 9693

Ion Ratio Lower Upper

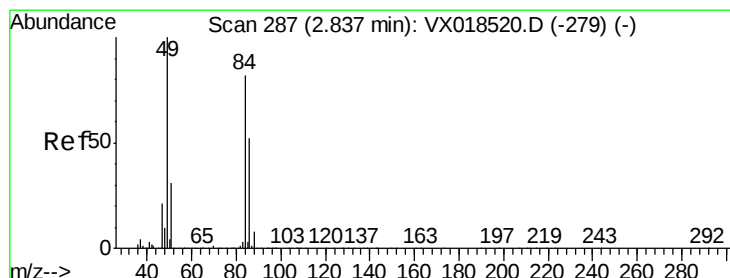
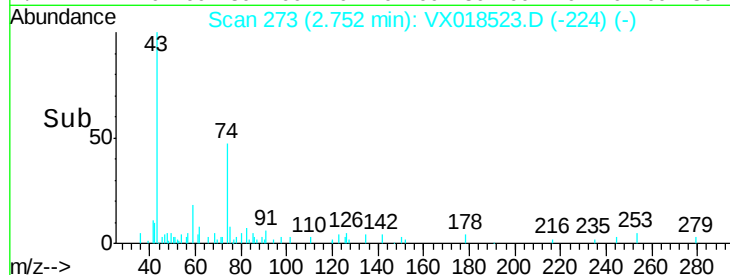
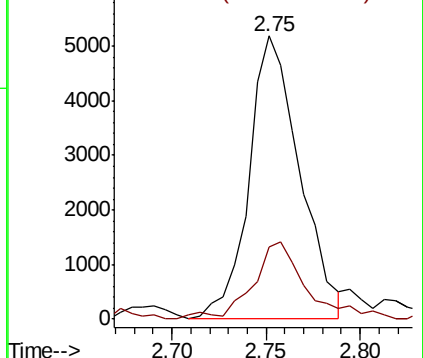
43 100

74 26.8 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#16

Methylene chloride

Concen: 3.113 ug/L

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

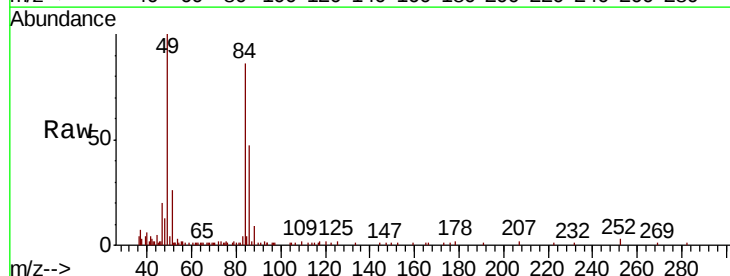
Tgt Ion: 84 Resp: 12565

Ion Ratio Lower Upper

84 100

86 55.0 46.1 85.7

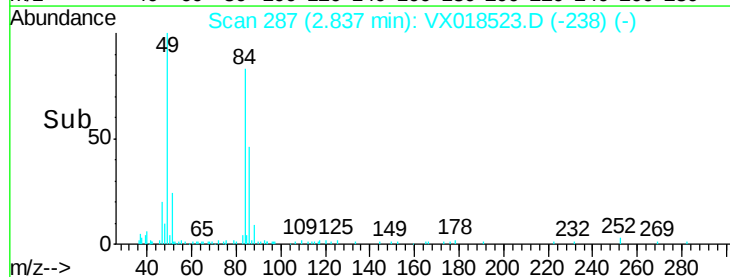
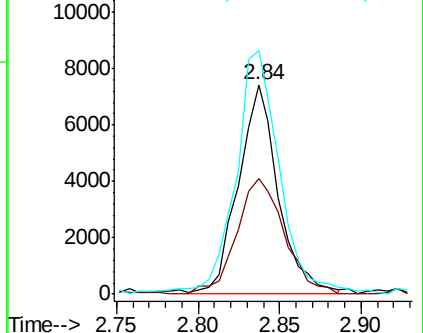
49 116.4 88.5 164.3

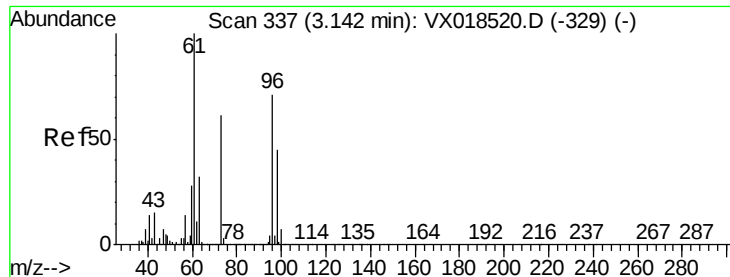


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

Ion 49.00 (48.70 to 49.70): VX0





#17

trans-1,2-Dichloroethene

Concen: 2.457 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

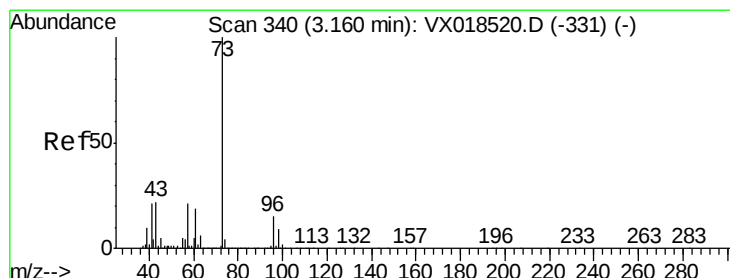
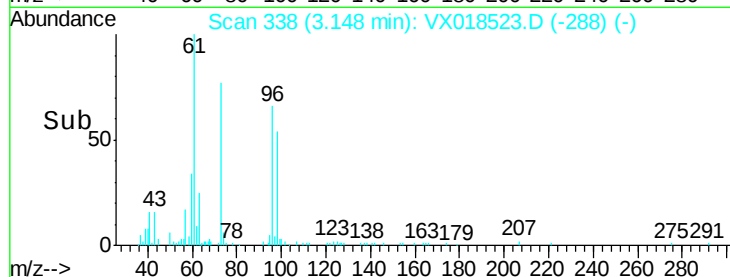
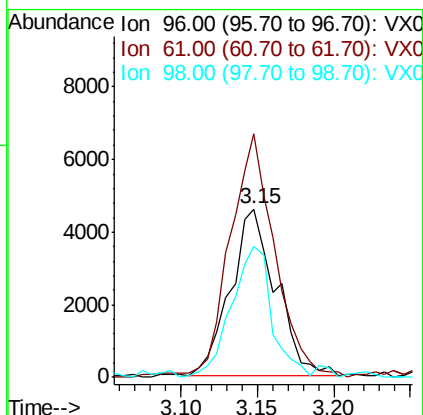
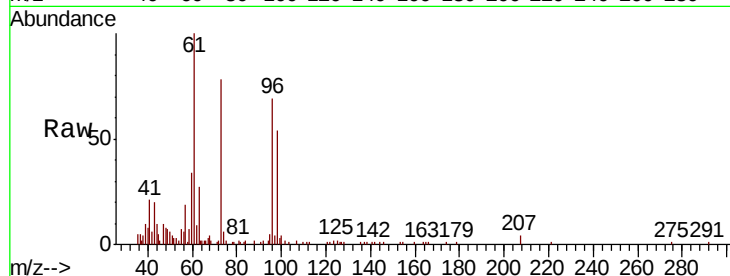
Tot Ion: 96 Resp: 9526

Ion Ratio Lower Upper

96 100

61 144.9 98.3 182.5

98 78.1 42.0 78.0#



#18

Methyl tert-butyl Ether

Concen: 2.168 ug/L

RT: 3.17 min Scan# 341

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

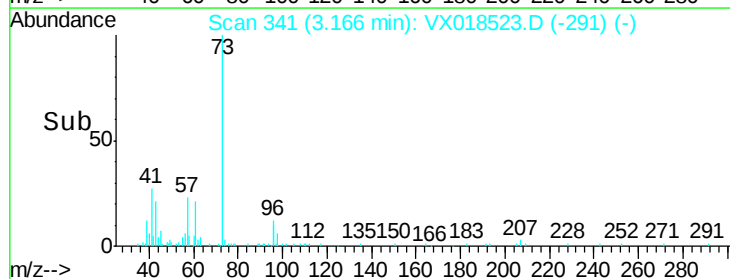
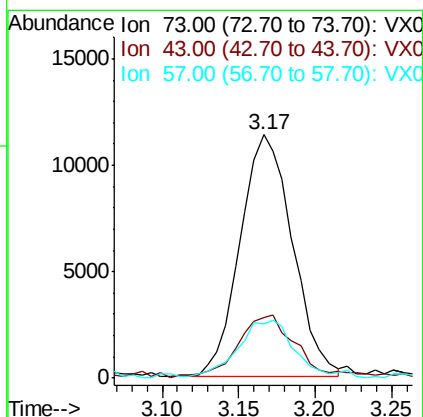
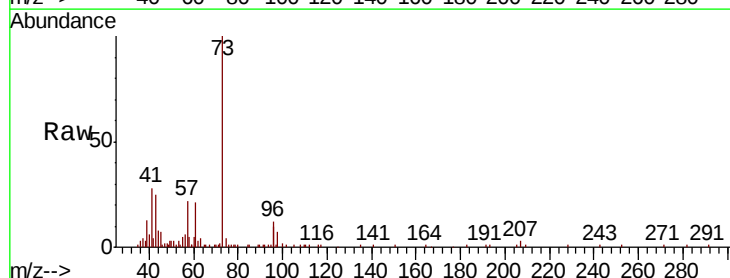
Tgt Ion: 73 Resp: 27079

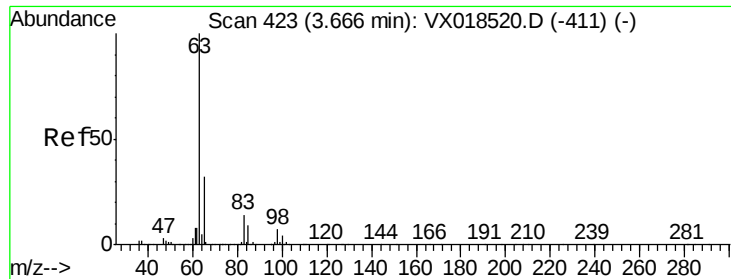
Ion Ratio Lower Upper

73 100

43 29.7 17.8 26.6#

57 25.4 17.1 25.7





#19

1,1-Dichloroethane

Concen: 2.277 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

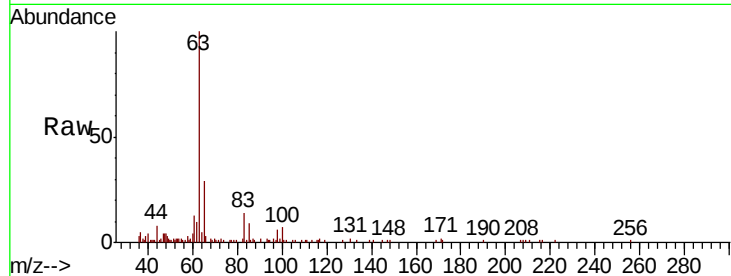
Tot Ion: 63 Resp: 16411

Ion Ratio Lower Upper

63 100

65 28.6 22.5 41.7

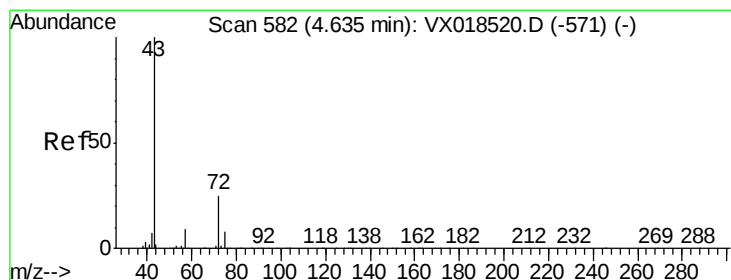
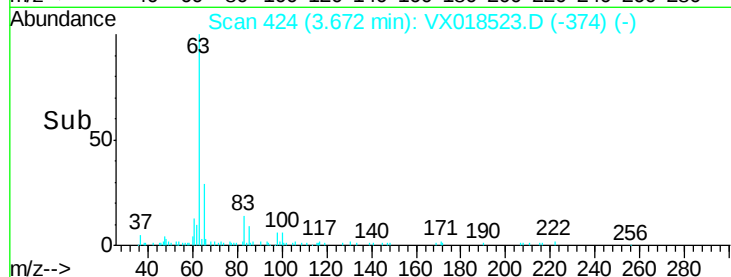
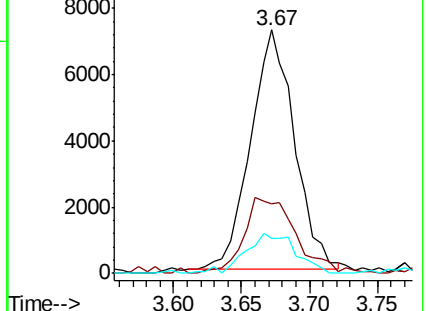
83 14.5 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 83.00 (82.70 to 83.70): VX0



#22

2-Butanone

Concen: 4.139 ug/L

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX018523.D

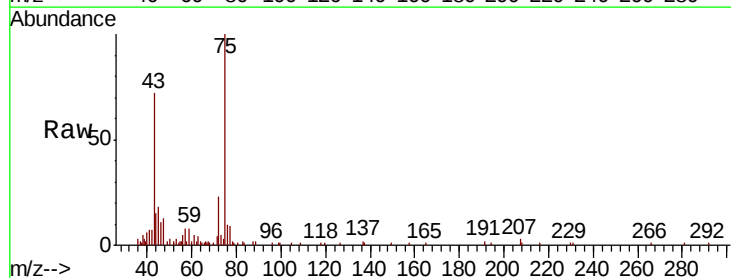
Acq: 22 Sep 2020 14:28

Tgt Ion: 43 Resp: 11919

Ion Ratio Lower Upper

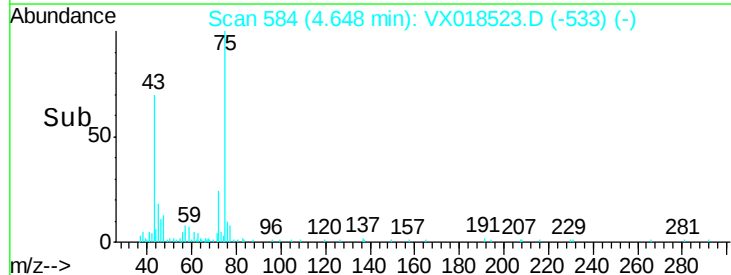
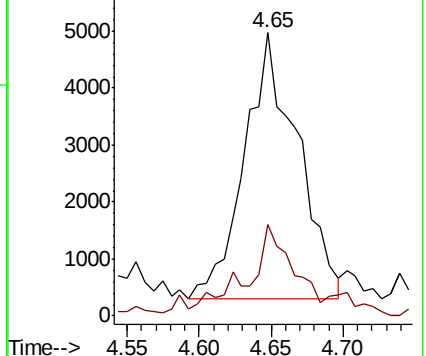
43 100

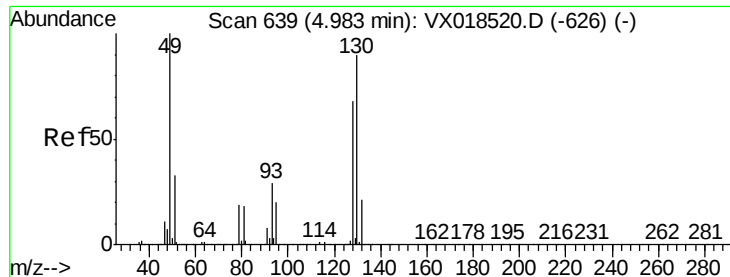
72 22.6 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#23

Bromochloromethane

Concen: 2.614 ug/L

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

Tot Ion:128 Resp: 6096

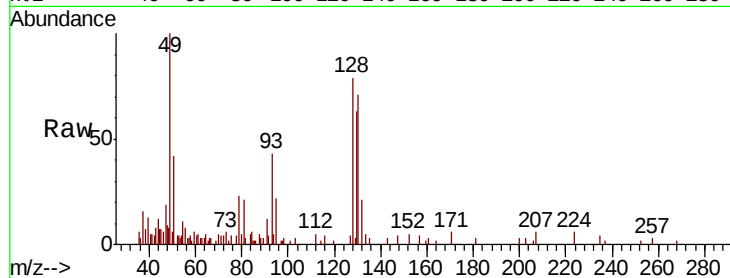
Ion Ratio Lower Upper

128 100

49 127.2 104.9 194.7

130 170.4 86.5 160.7#

51 53.9 37.0 55.6

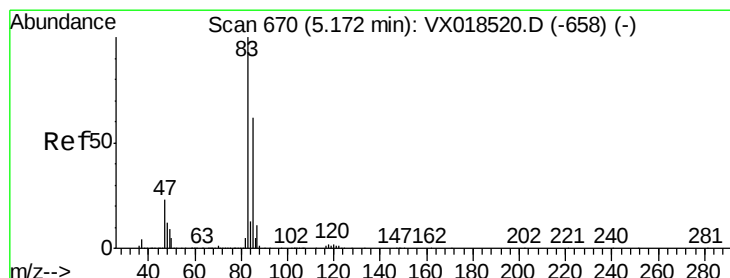
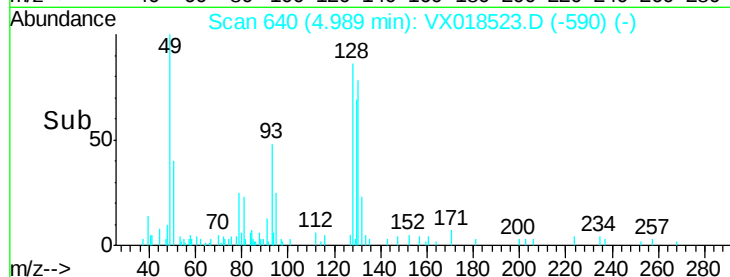
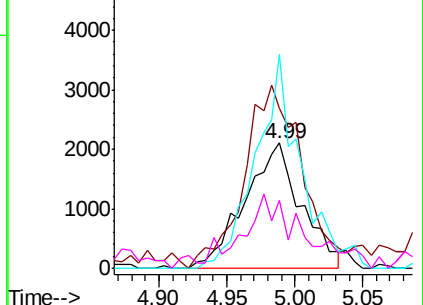


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VX0



#25

Chloroform

Concen: 4.676 ug/L

RT: 5.17 min Scan# 670

Delta R.T. 0.00 min

Lab File: VX018523.D

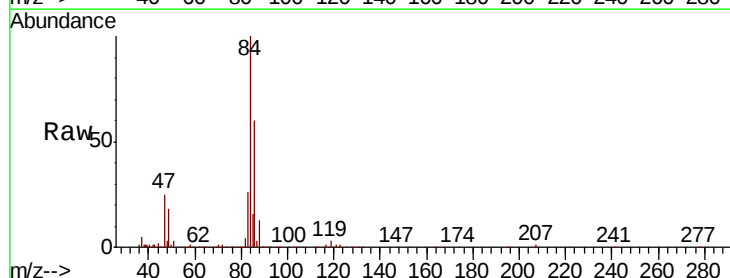
Acq: 22 Sep 2020 14:28

Tgt Ion: 83 Resp: 37675

Ion Ratio Lower Upper

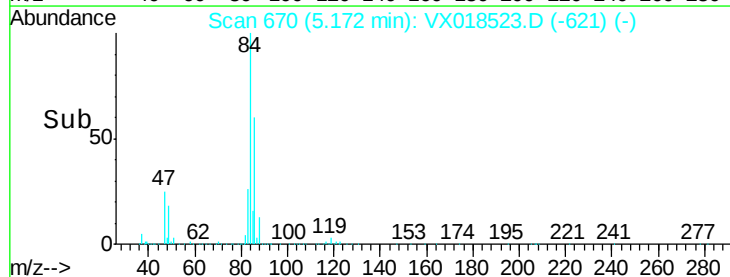
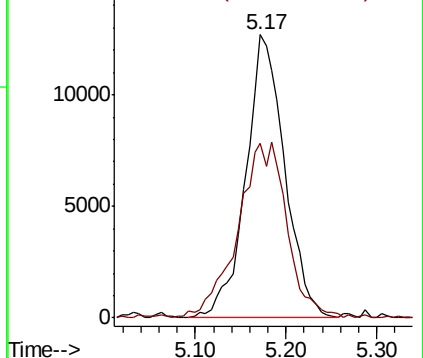
83 100

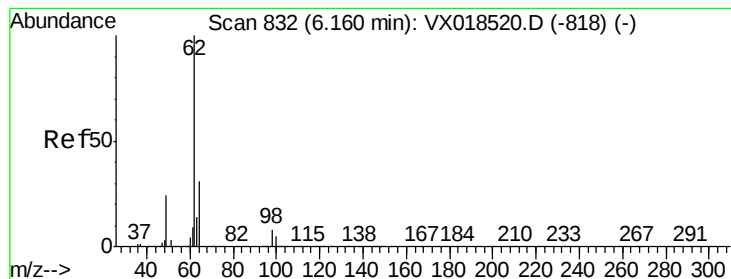
85 61.7 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





#27

1,2-Dichloroethane

Concen: 2.333 ug/L

RT: 6.16 min Scan# 832

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

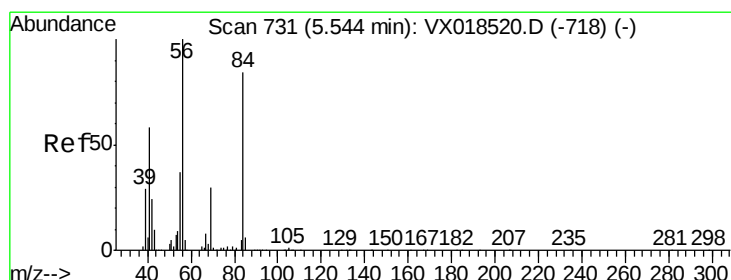
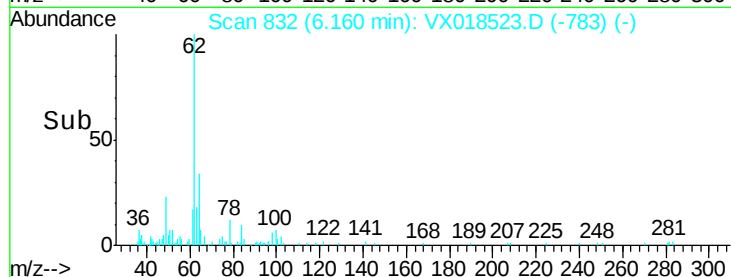
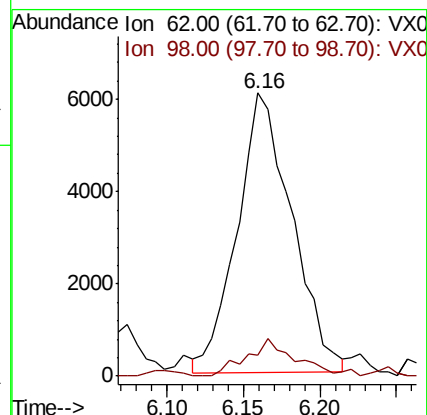
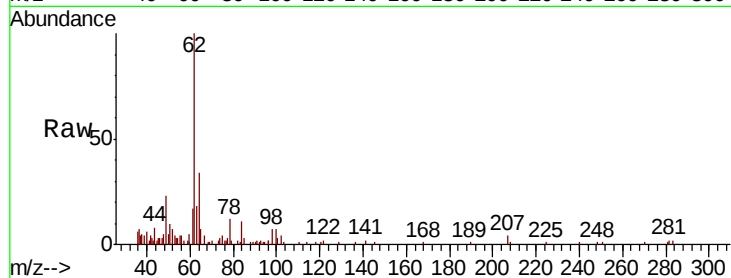
MDL01

Tot Ion: 62 Resp: 15042

Ion Ratio Lower Upper

62 100

98 7.3 6.7 10.1



#29

Cyclohexane

Concen: 2.102 ug/L

RT: 5.56 min Scan# 733

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

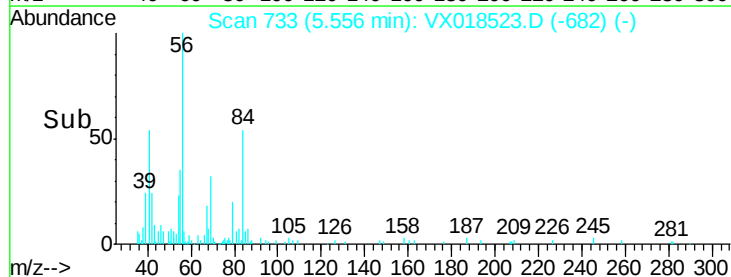
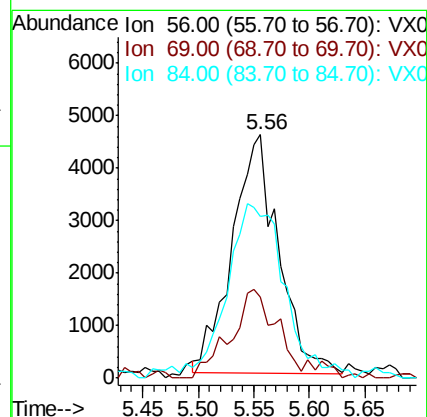
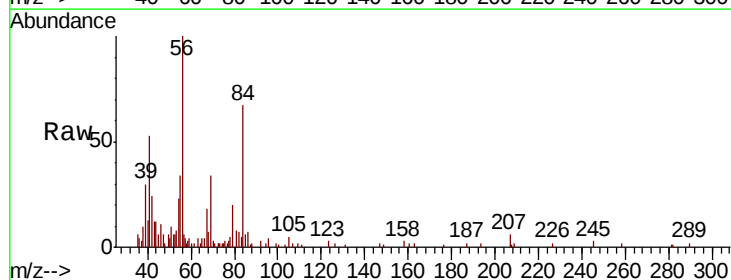
Tgt Ion: 56 Resp: 13190

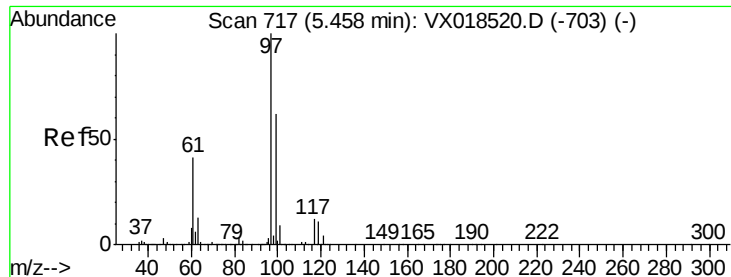
Ion Ratio Lower Upper

56 100

69 21.0 25.2 37.8#

84 47.6 69.1 103.7#





#30

1,1,1-Trichloroethane

Concen: 2.224 ug/L

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

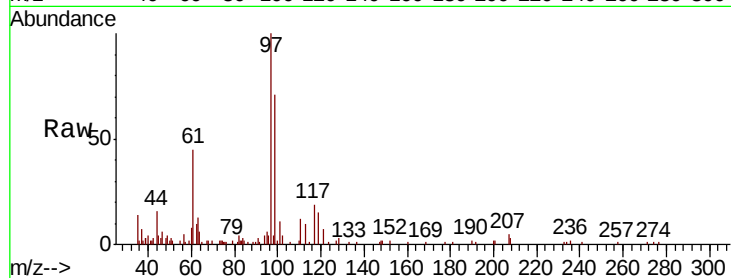
Tot Ion: 97 Resp: 17092

Ion Ratio Lower Upper

97 100

99 68.3 51.9 77.9

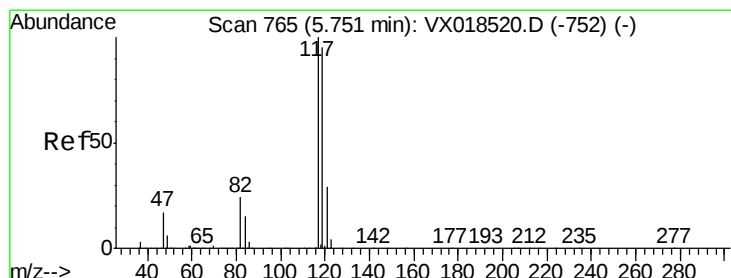
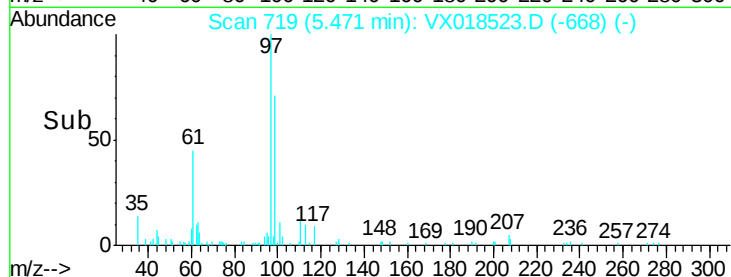
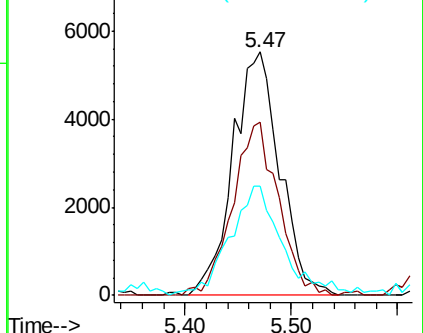
61 40.2 34.4 51.6



Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 99.00 (98.70 to 99.70): VX0

Ion 61.05 (60.75 to 61.75): VX0



#31

Carbon tetrachloride

Concen: 2.351 ug/L

RT: 5.76 min Scan# 767

Delta R.T. 0.01 min

Lab File: VX018523.D

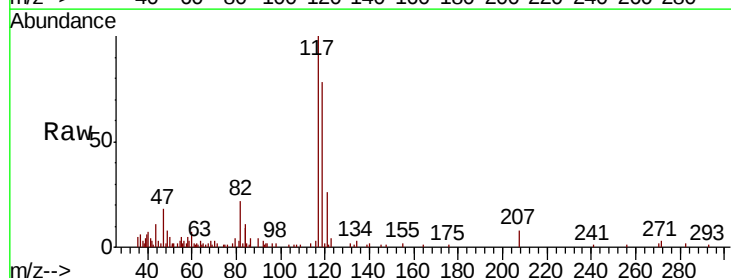
Acq: 22 Sep 2020 14:28

Tgt Ion: 117 Resp: 16321

Ion Ratio Lower Upper

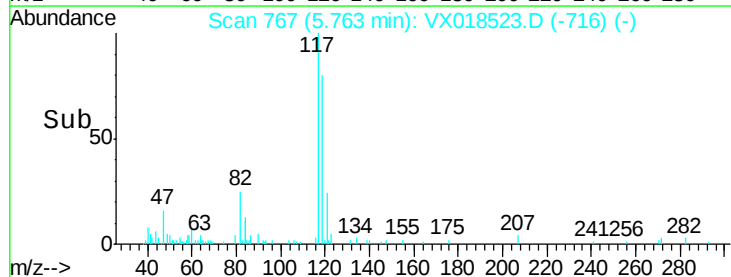
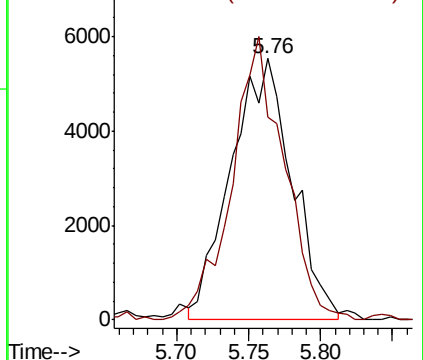
117 100

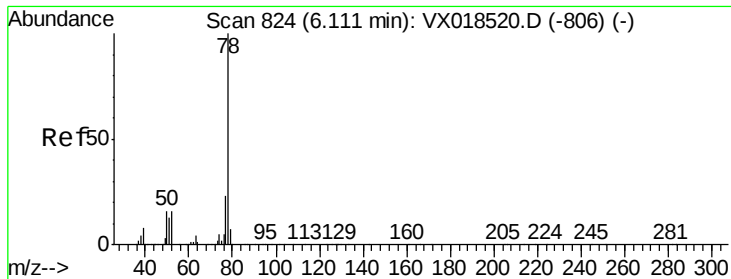
119 92.9 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#33

Benzene

Concen: 2.355 ug/L

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

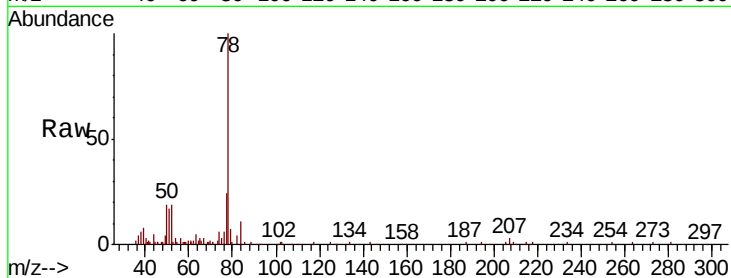
Instrument :

MSVOA\_X

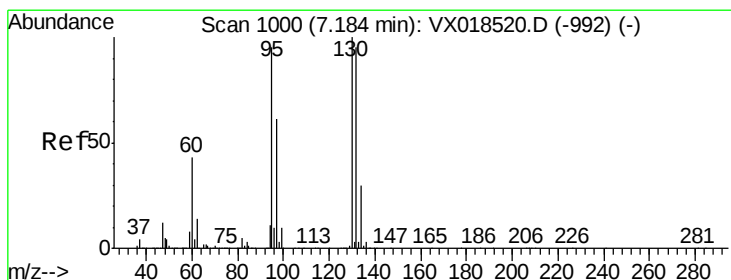
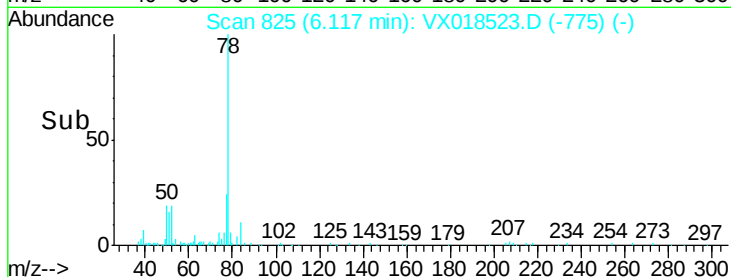
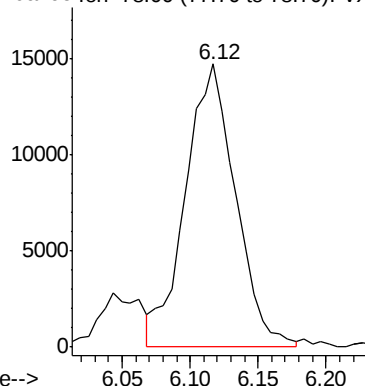
ClientSampled :

MDL01

Tgt Ion: 78 Resp: 37795



Abundance Ion 78.00 (77.70 to 78.70): VX0



#34

Trichloroethene

Concen: 2.305 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Tgt Ion: 95 Resp: 10321

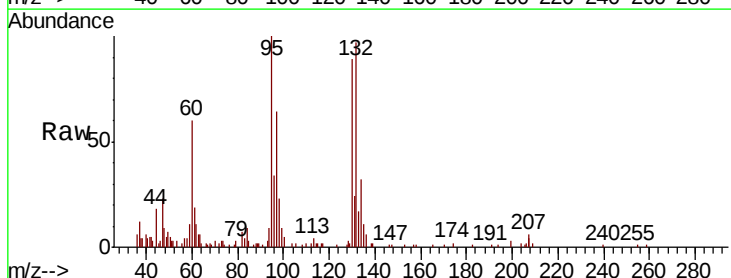
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.4  | 46.0  | 85.4  |
| 132 | 96.5  | 71.7  | 133.1 |
| 130 | 89.2  | 71.3  | 132.5 |

95 100

97 64.4 46.0 85.4

132 96.5 71.7 133.1

130 89.2 71.3 132.5

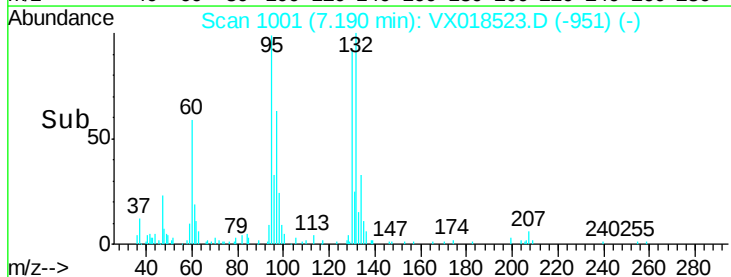
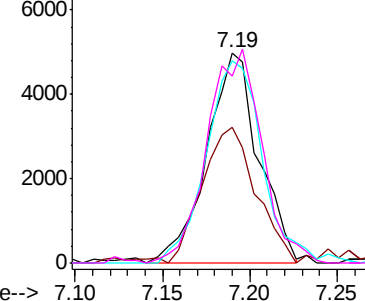


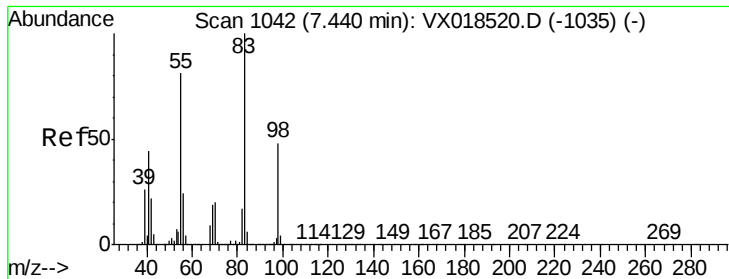
Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 97.00 (96.70 to 97.70): VX0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

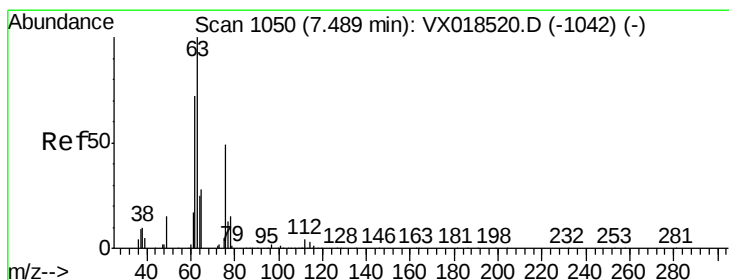
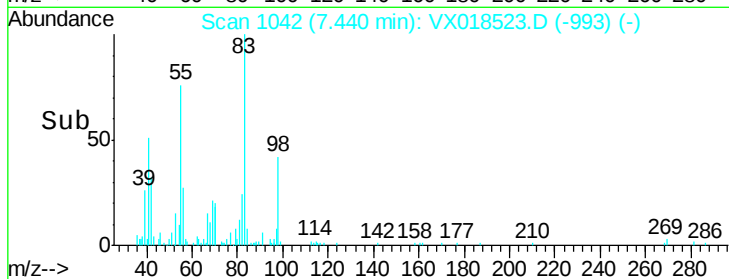
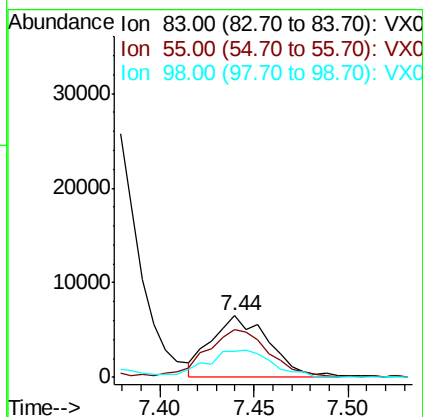
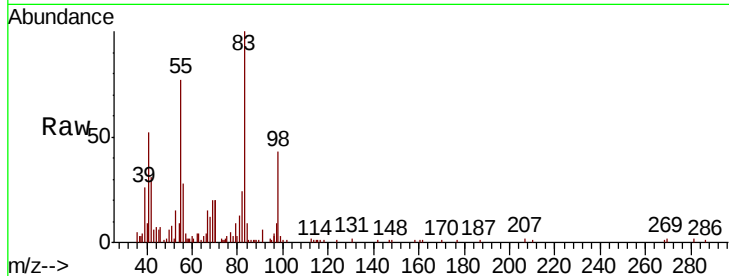




#35  
Methvlcvclohexane  
Concen: 2.075 ug/L  
RT: 7.44 min Scan# 1042  
Delta R.T. 0.00 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

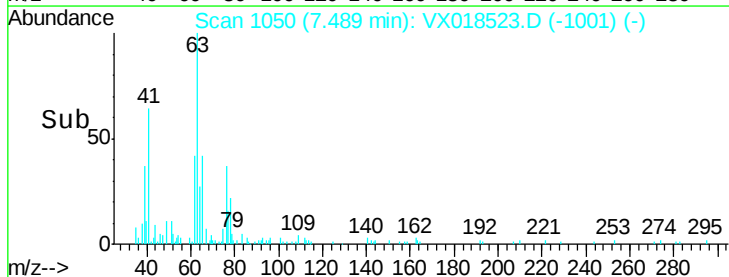
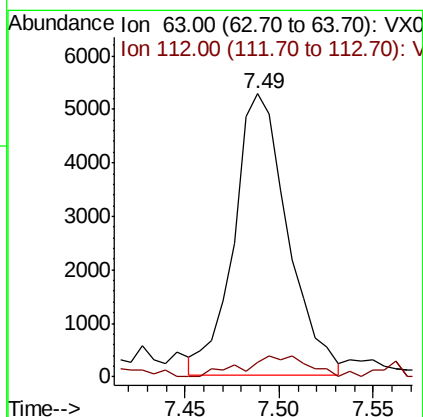
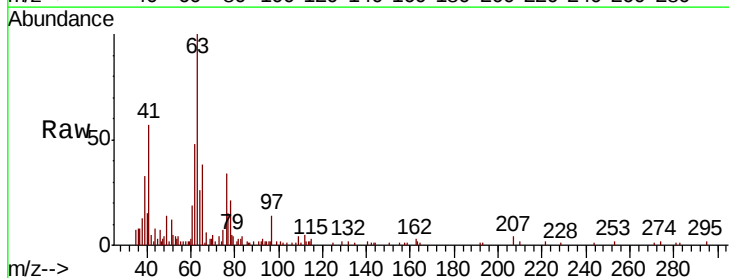
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL01

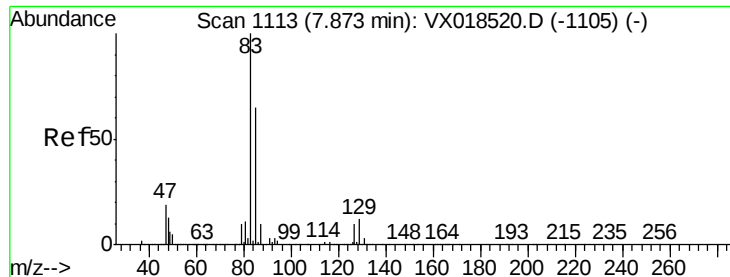
Tot Ion: 83 Resp: 13501  
Ion Ratio Lower Upper  
83 100  
55 87.3 61.6 92.4  
98 49.8 37.0 55.4



#37  
1,2-Dichloropropane  
Concen: 2.460 ug/L  
RT: 7.49 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

Tgt Ion: 63 Resp: 10417  
Ion Ratio Lower Upper  
63 100  
112 6.8 3.5 5.3#





#38

Bromodichloromethane

Concen: 2.384 ug/L

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

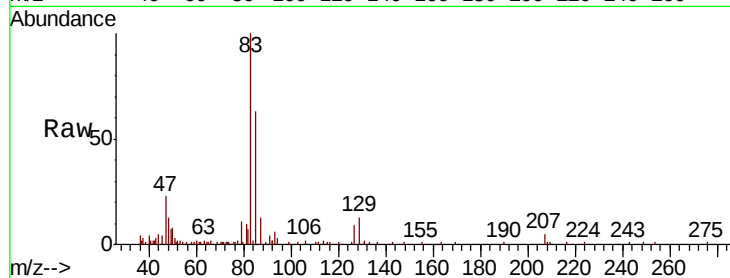
Tot Ion: 83 Resp: 14493

Ion Ratio Lower Upper

83 100

85 62.6 45.0 83.6

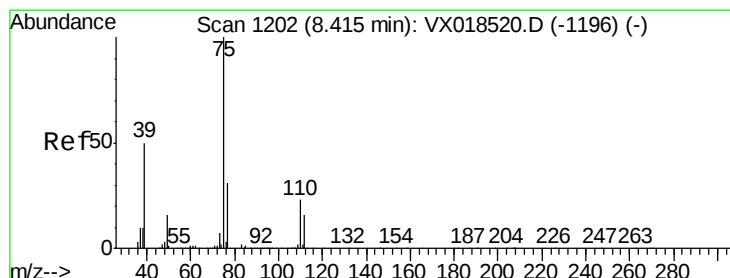
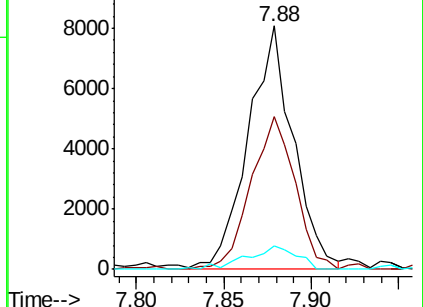
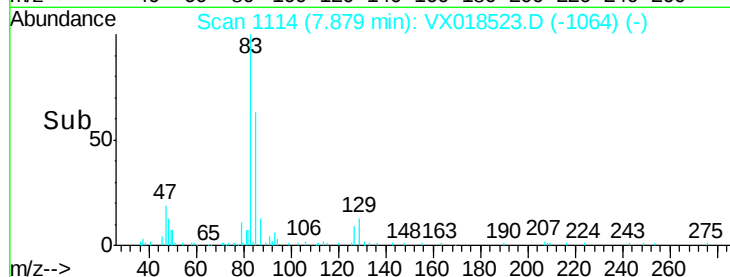
127 9.4 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#39

cis-1,3-Dichloropropene

Concen: 2.222 ug/L

RT: 8.42 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VX018523.D

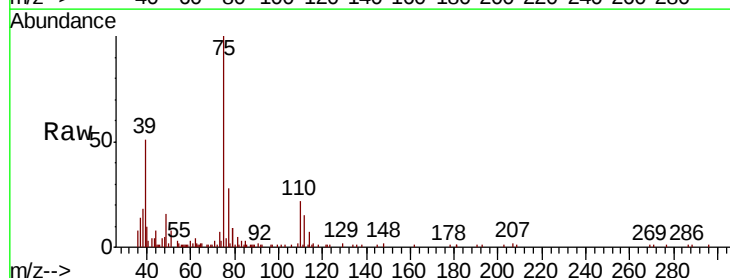
Acq: 22 Sep 2020 14:28

Tgt Ion: 75 Resp: 15189

Ion Ratio Lower Upper

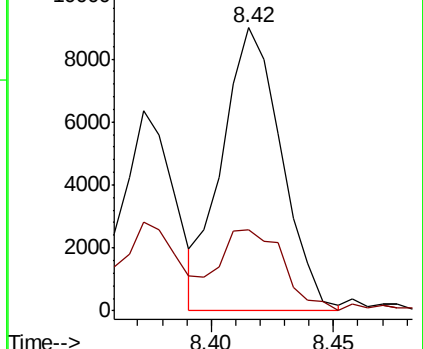
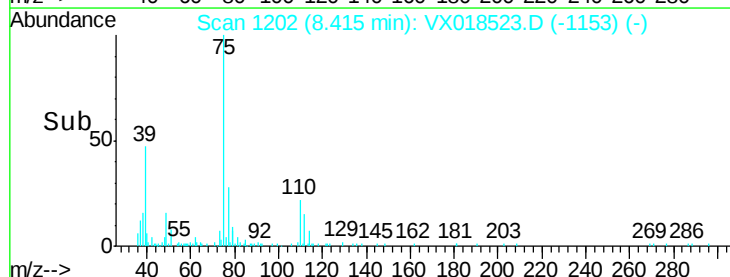
75 100

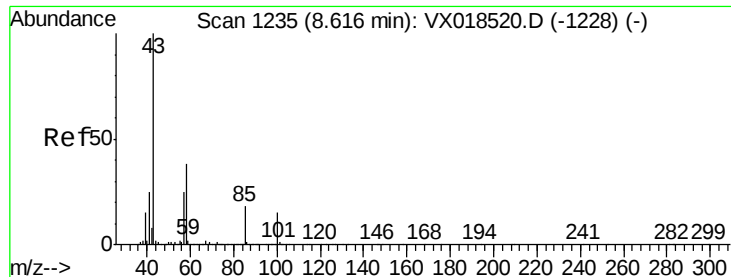
77 28.5 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

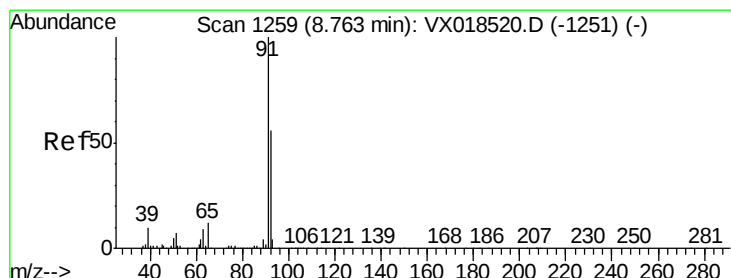
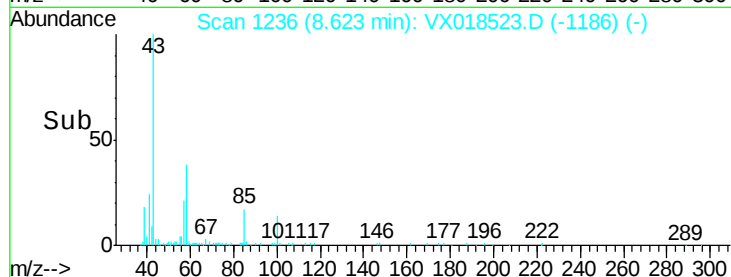
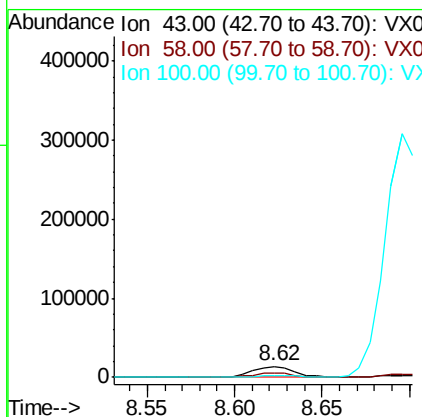
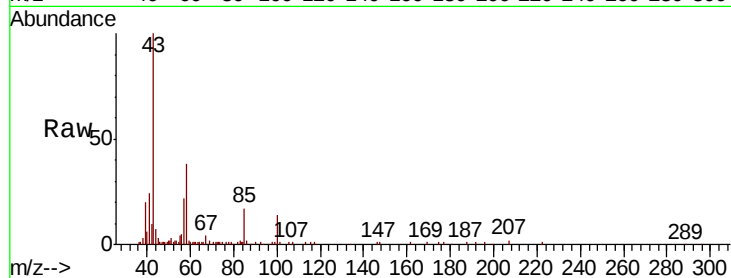




#40  
4-Methyl-2-pentanone  
Concen: 4.010 ug/L  
RT: 8.62 min Scan# 1236  
Delta R.T. 0.01 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

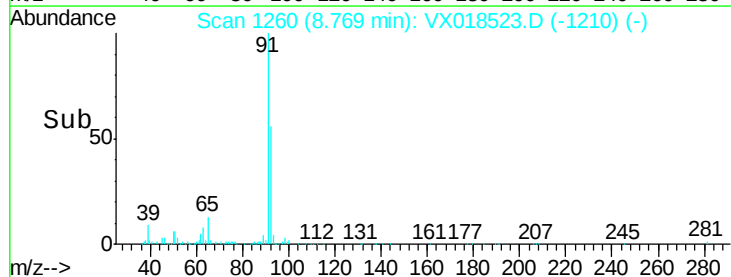
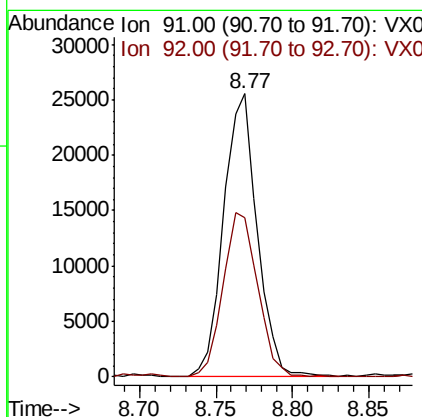
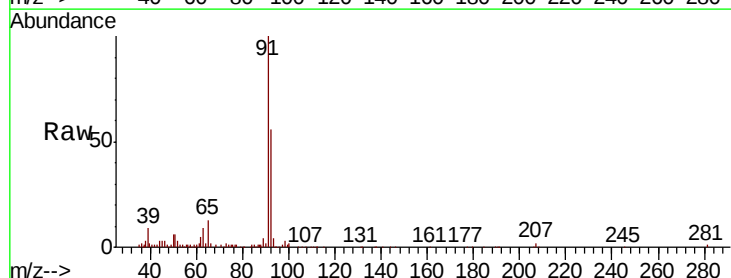
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL01

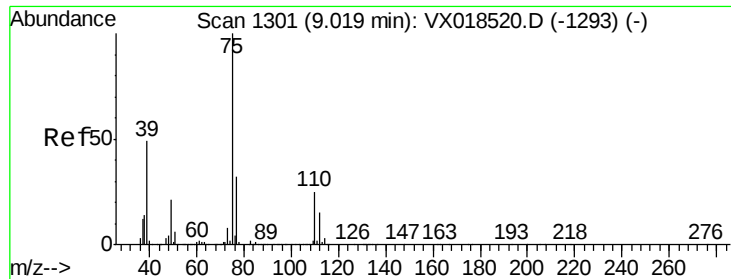
Tot Ion: 43 Resp: 22521  
Ion Ratio Lower Upper  
43 100  
58 38.5 30.6 45.8  
100 16.2 12.2 18.2



#42  
Toluene  
Concen: 2.257 ug/L  
RT: 8.77 min Scan# 1260  
Delta R.T. 0.01 min  
Lab File: VX018523.D  
Acq: 22 Sep 2020 14:28

Tgt Ion: 91 Resp: 38914  
Ion Ratio Lower Upper  
91 100  
92 56.1 41.9 77.7





#44

trans-1,3-Dichloropropene

Concen: 2.207 ug/L

RT: 9.02 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

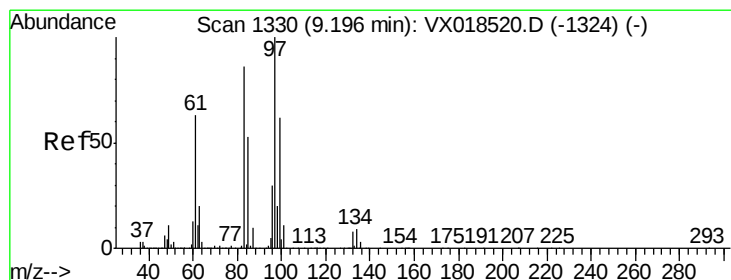
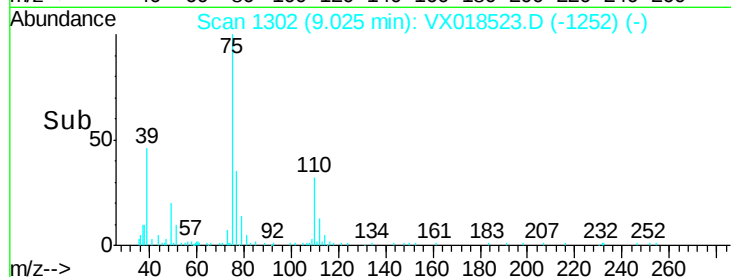
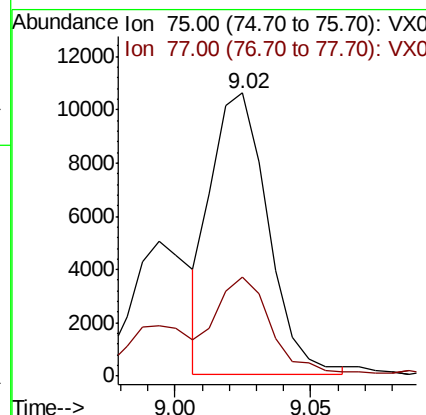
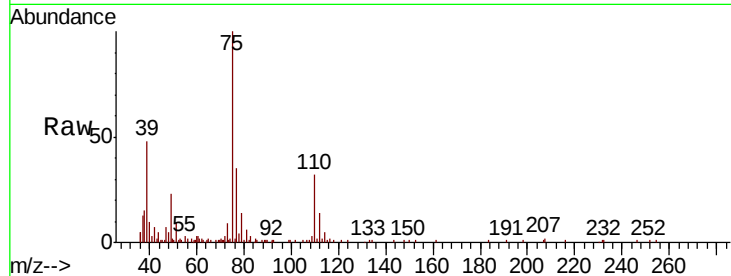
MDL01

Tot Ion: 75 Resp: 15352

Ion Ratio Lower Upper

75 100

77 34.9 23.6 43.8



#45

1,1,2-Trichloroethane

Concen: 2.269 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Tgt Ion: 97 Resp: 9307

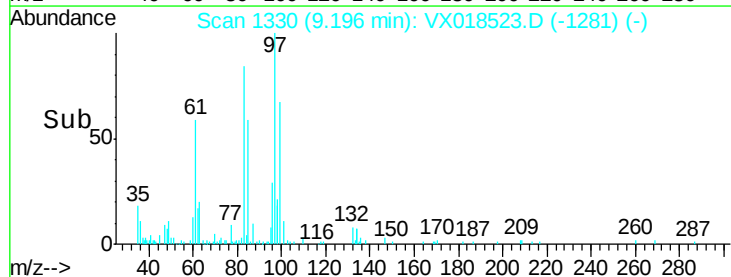
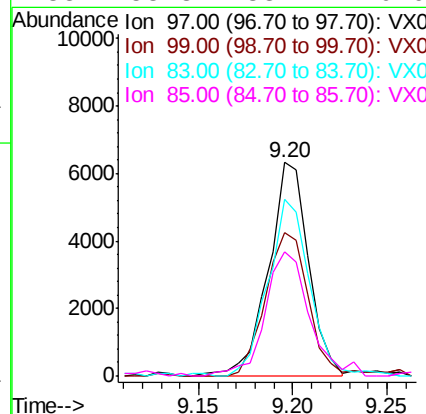
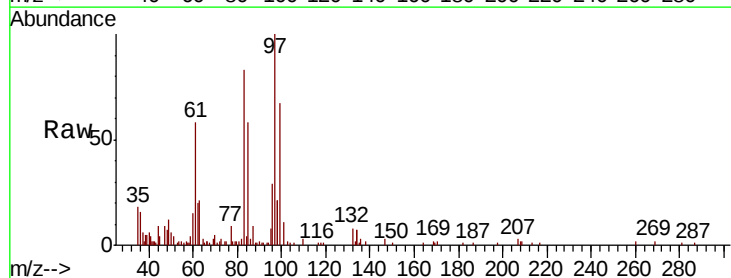
Ion Ratio Lower Upper

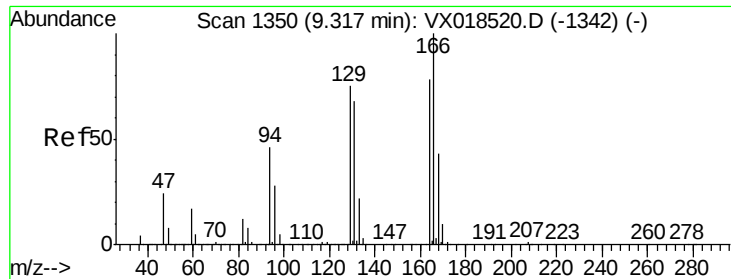
97 100

99 67.2 43.5 80.9

83 82.9 60.8 113.0

85 58.3 38.1 70.9





#46

Tetrachloroethene

Concen: 2.622 ug/L

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

MDL01

Tot Ion:164 Resp: 9661

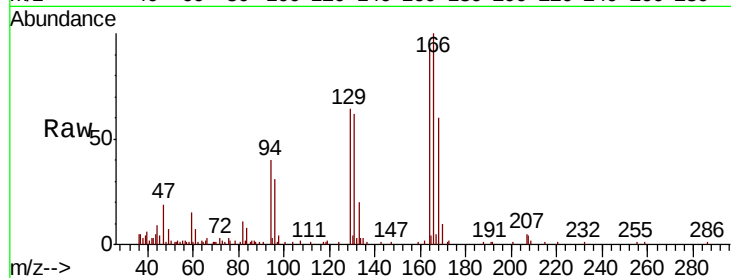
Ion Ratio Lower Upper

164 100

129 69.0 69.7 129.5#

131 66.9 63.4 117.8

166 107.5 90.9 168.7

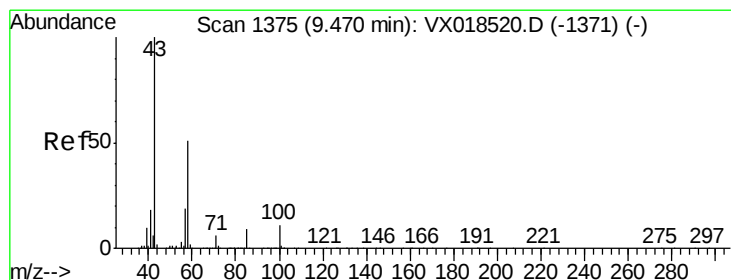
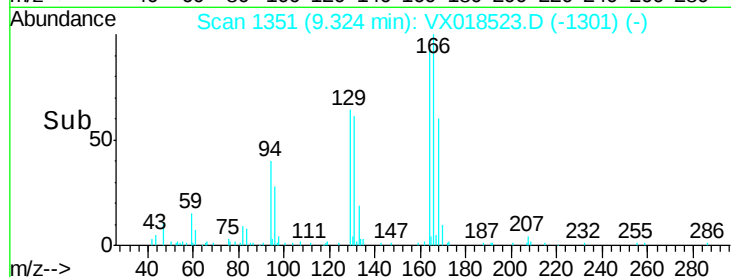
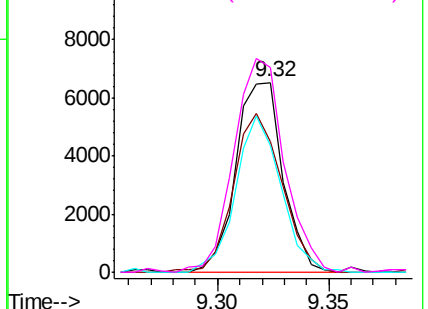


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.407 ug/L

RT: 9.47 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Tgt Ion: 43 Resp: 19496

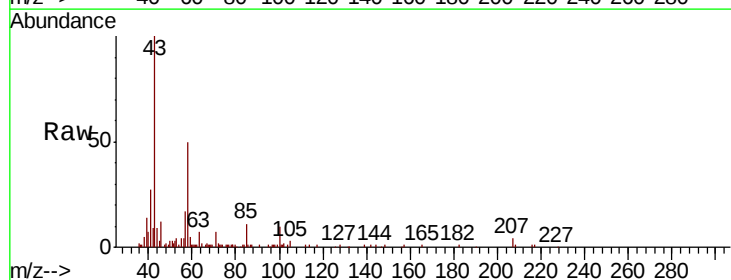
Ion Ratio Lower Upper

43 100

58 55.2 43.0 64.6

57 20.8 15.6 23.4

100 12.8 9.4 14.2

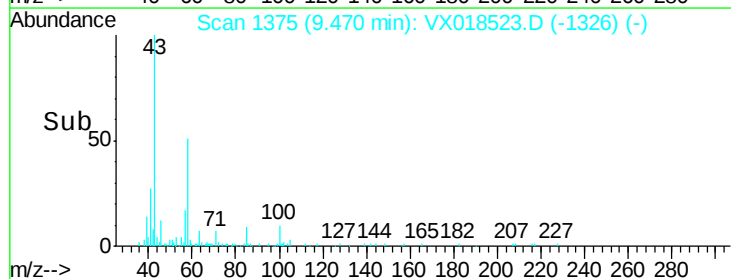
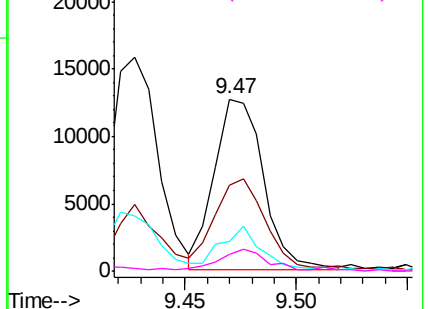


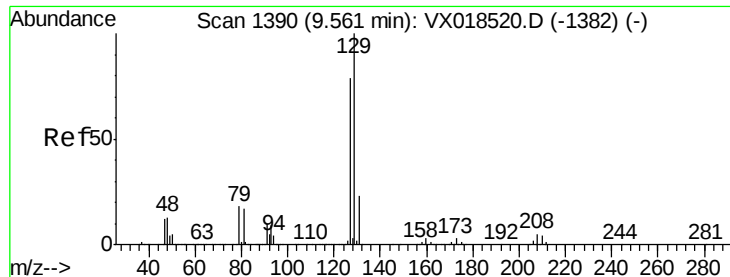
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#49

Dibromochloromethane

Concen: 2.305 ug/L

RT: 9.56 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

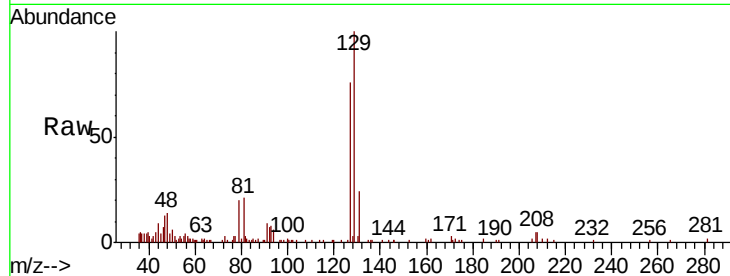
MDL01

Tot Ion:129 Resp: 11912

Ion Ratio Lower Upper

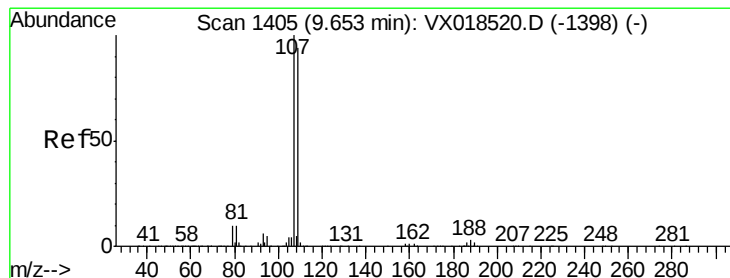
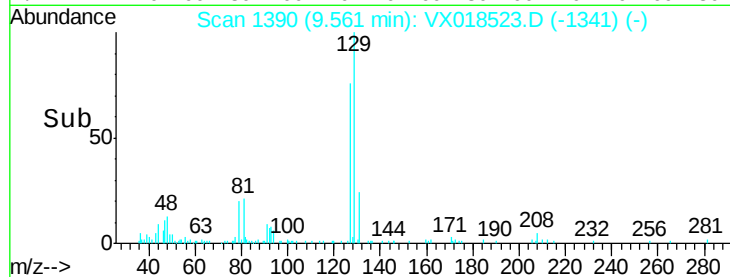
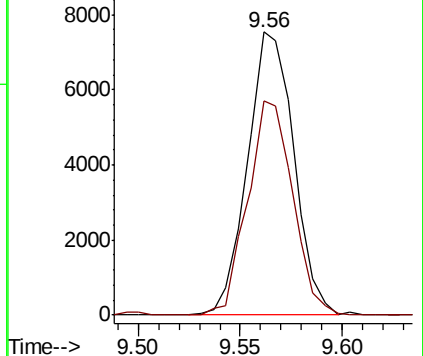
129 100

127 75.9 52.6 97.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.345 ug/L

RT: 9.66 min Scan# 1406

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

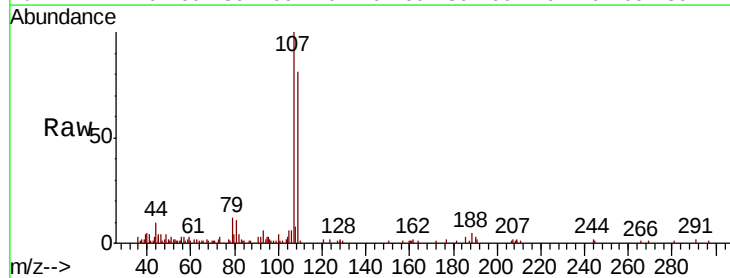
Tgt Ion:107 Resp: 10578

Ion Ratio Lower Upper

107 100

109 80.6 65.7 121.9

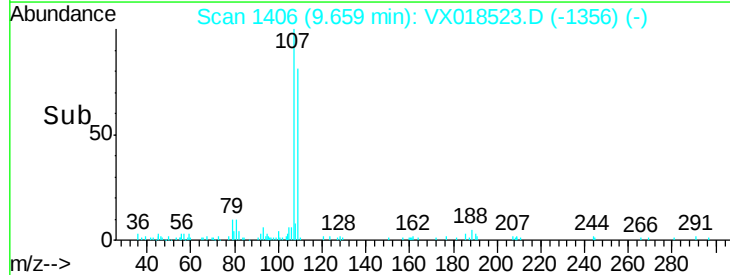
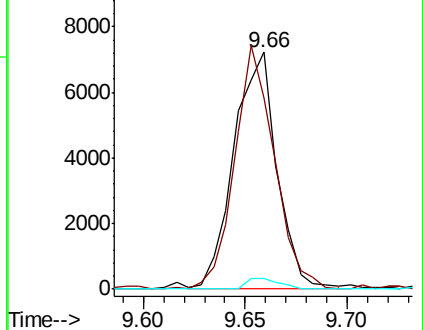
188 4.7 3.0 4.4#

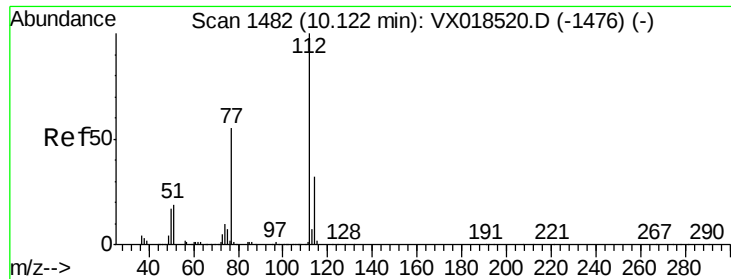


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 2.232 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

MDL01

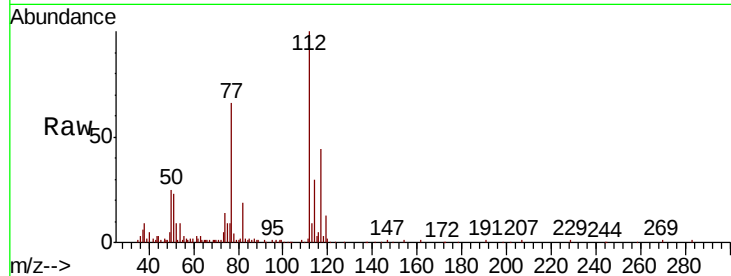
Tot Ion:112 Resp: 25848

Ion Ratio Lower Upper

112 100

114 30.3 22.2 41.2

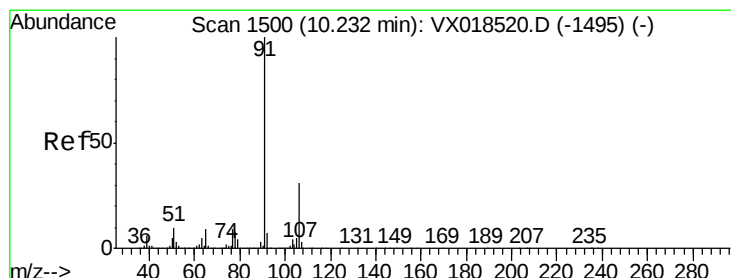
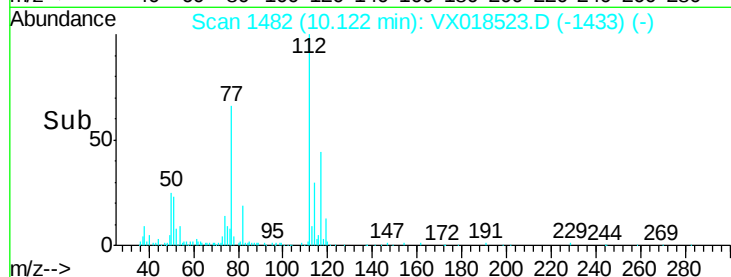
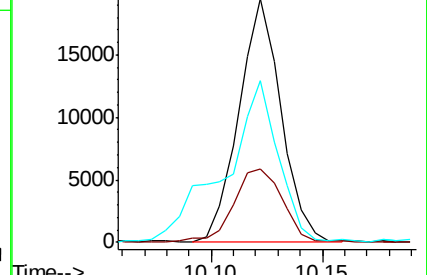
77 66.2 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 2.236 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018523.D

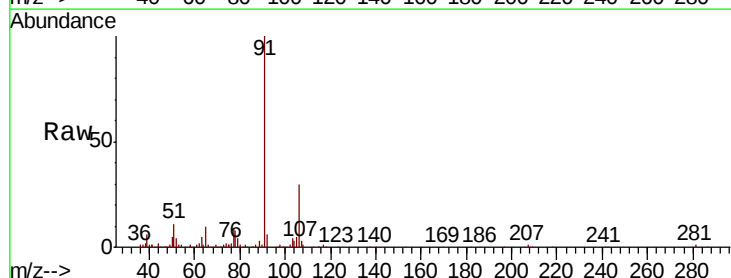
Acq: 22 Sep 2020 14:28

Tgt Ion: 91 Resp: 42929

Ion Ratio Lower Upper

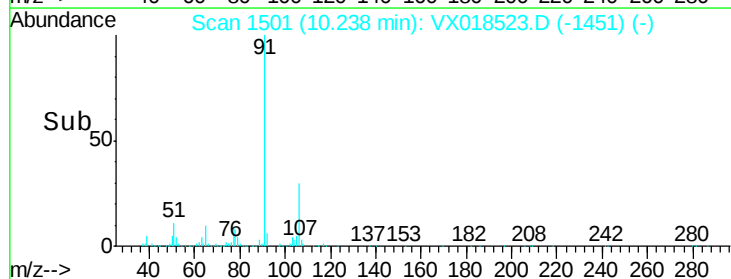
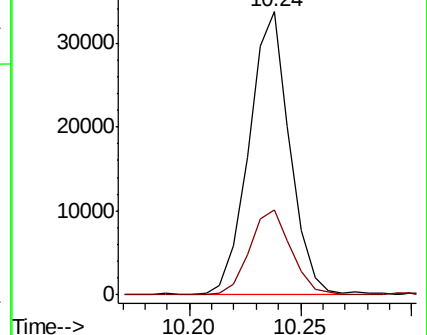
91 100

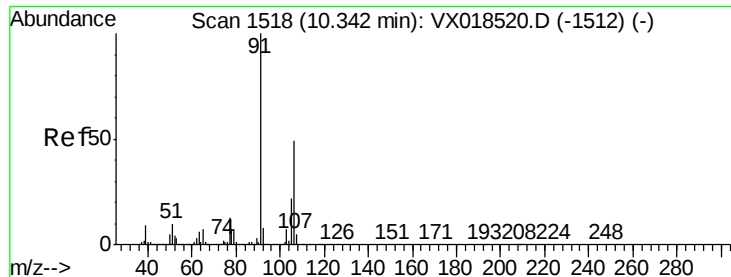
106 29.8 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 2.077 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

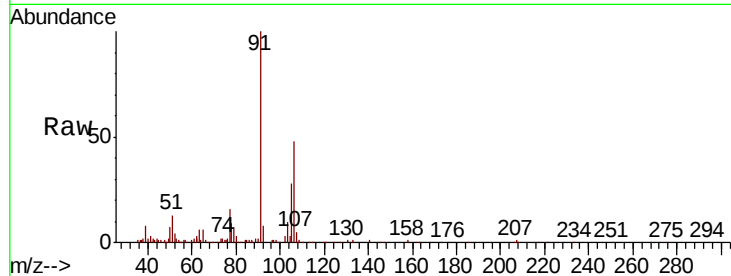
MDL01

Tot Ion:106 Resp: 15191

Ion Ratio Lower Upper

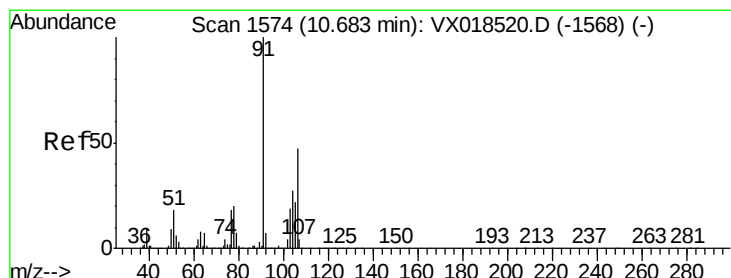
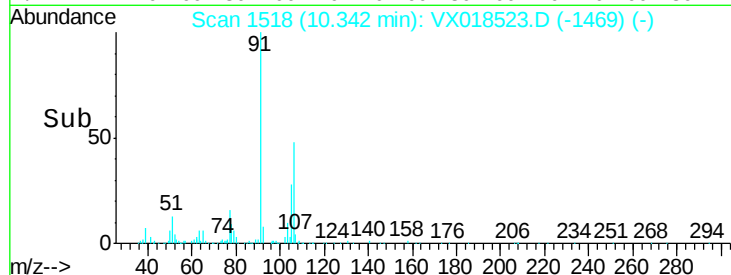
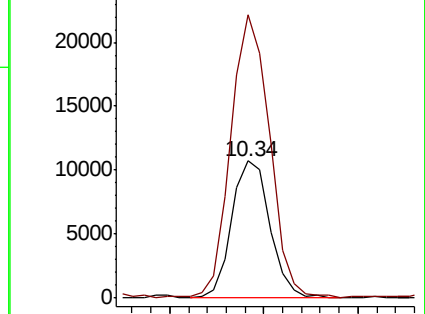
106 100

91 206.3 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#54

o-Xylene

Concen: 1.897 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018523.D

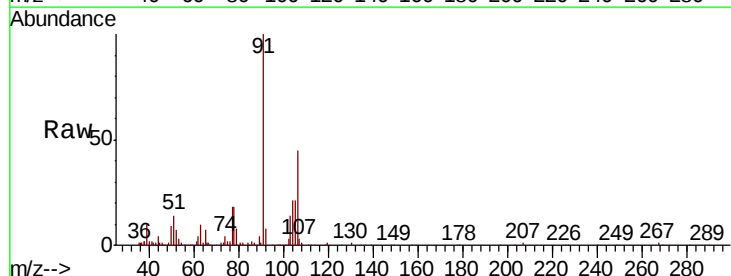
Acq: 22 Sep 2020 14:28

Tgt Ion:106 Resp: 13366

Ion Ratio Lower Upper

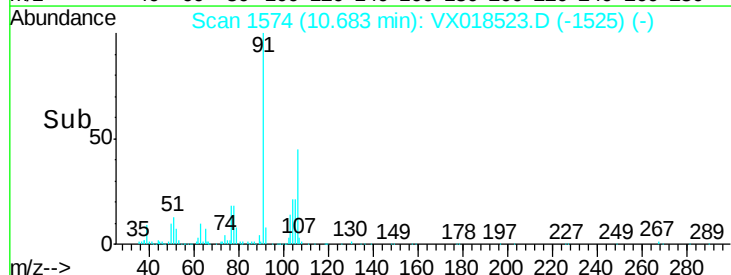
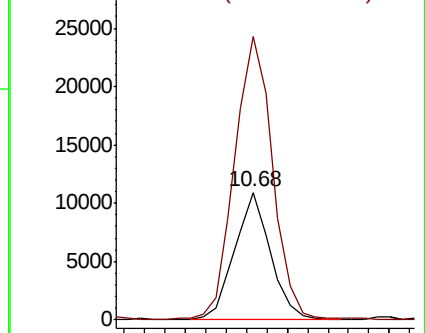
106 100

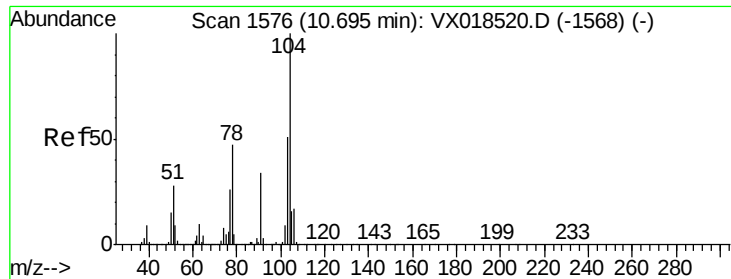
91 222.5 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#55

Stvrene

Concen: 1.968 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

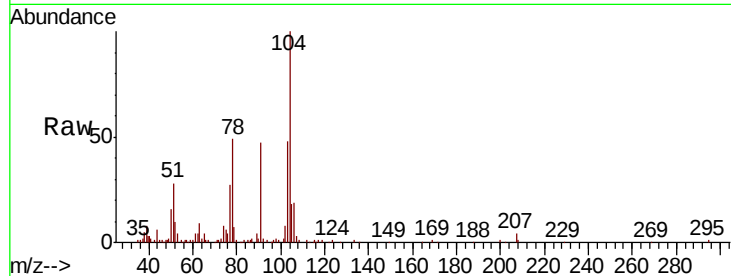
MDL01

Tot Ion:104 Resp: 23871

Ion Ratio Lower Upper

104 100

78 49.4 33.5 62.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

20000

15000

10000

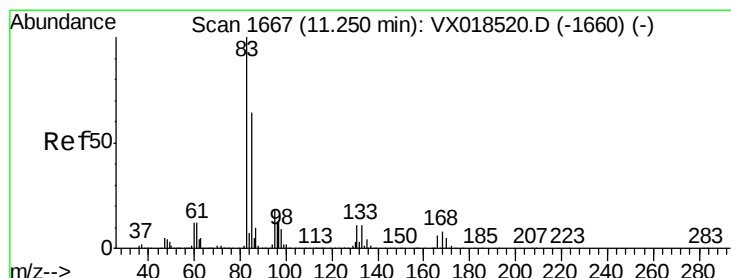
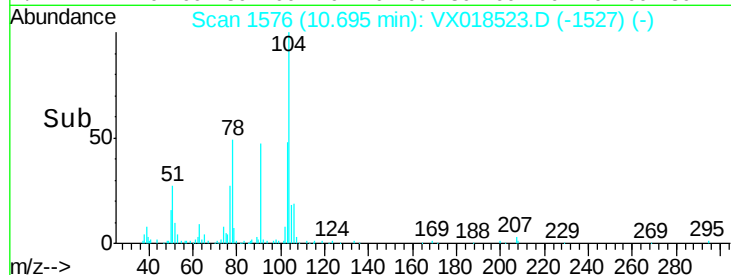
5000

0

10.65

10.70

Time-->



#57

1,1,2,2-Tetrachloroethane

Concen: 2.425 ug/L

RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

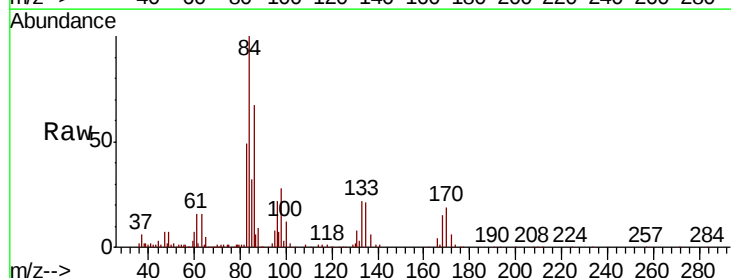
Tgt Ion: 83 Resp: 15224

Ion Ratio Lower Upper

83 100

85 65.6 45.6 84.8

131 15.7 8.0 12.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 131.00 (130.70 to 131.70): V

15000

10000

5000

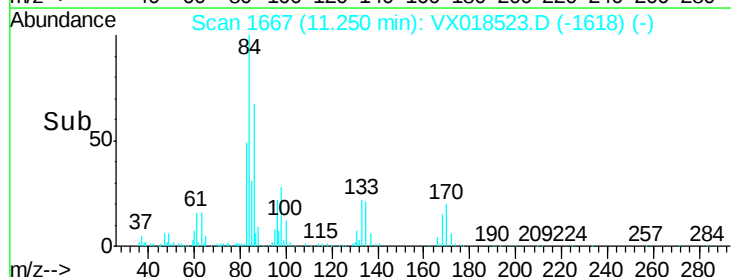
0

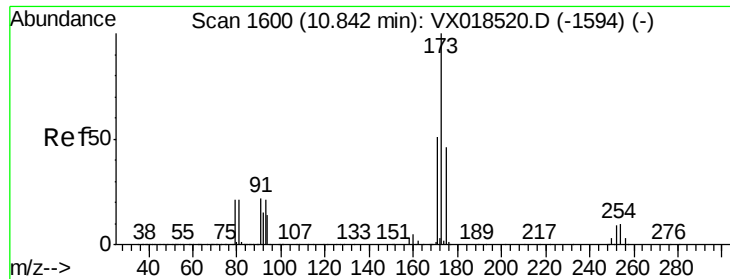
11.20

11.25

11.30

Time-->





#59

Bromoform

Concen: 2.322 ug/L

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

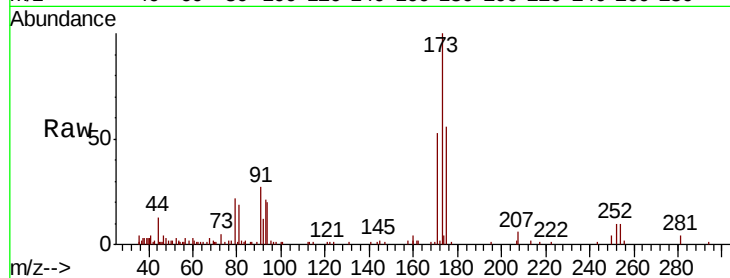
Tot Ion:173 Resp: 8396

Ion Ratio Lower Upper

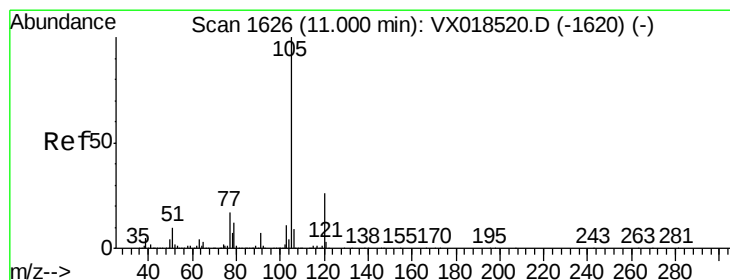
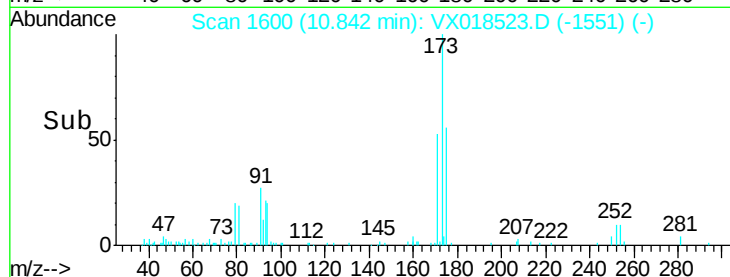
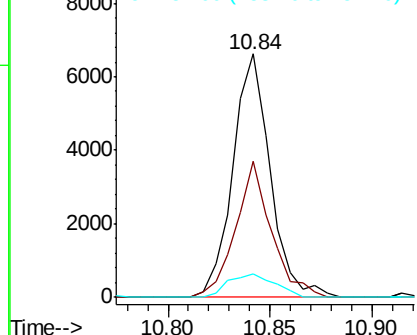
173 100

175 53.6 37.7 56.5

254 11.9 7.2 10.8#



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



#60

Isopropylbenzene

Concen: 2.109 ug/L

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

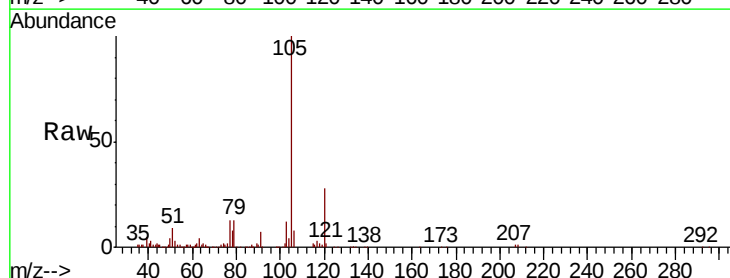
Tgt Ion:105 Resp: 37001

Ion Ratio Lower Upper

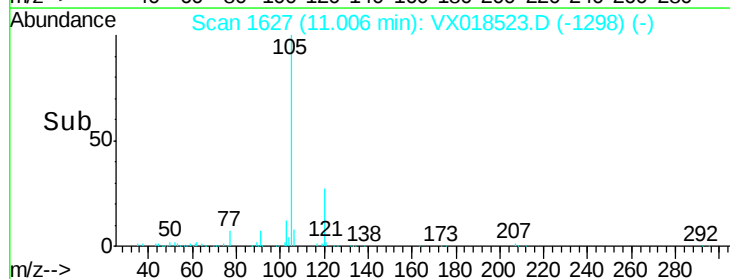
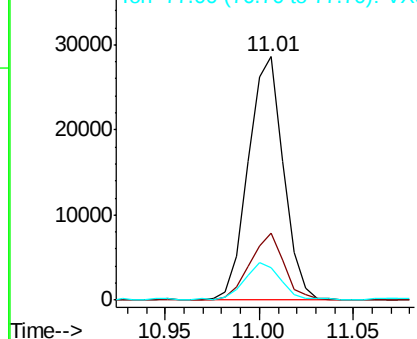
105 100

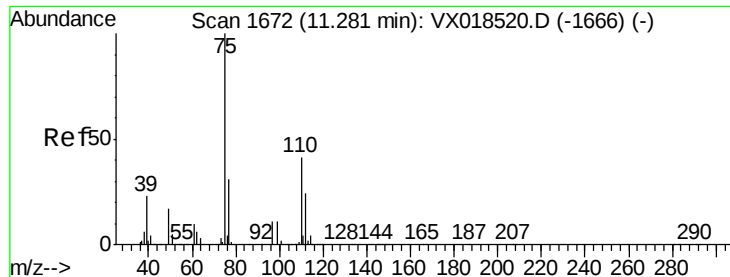
120 26.8 21.8 32.8

77 16.3 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V  
Ion 77.00 (76.70 to 77.70): V





#61

1,2,3-Trichloropropane

Concen: 2.310 ug/L

RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampleId :

MDL01

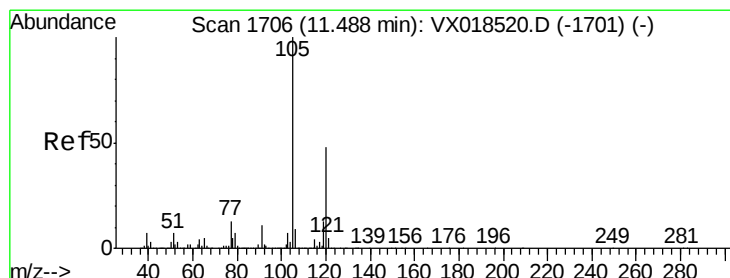
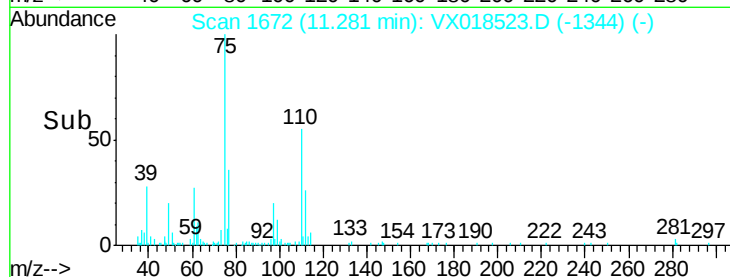
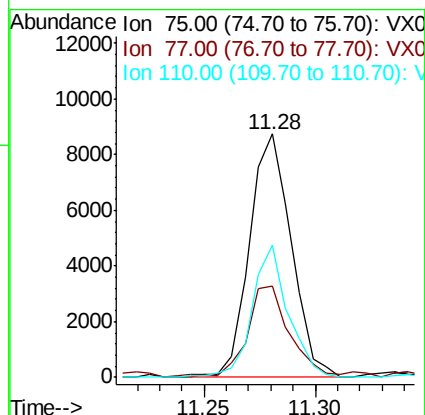
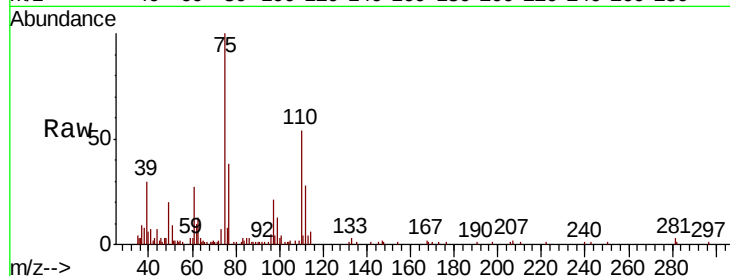
Tot Ion: 75 Resp: 11425

Ion Ratio Lower Upper

75 100

77 37.8 26.0 39.0

110 46.7 32.4 48.6



#62

1,3,5-Trimethylbenzene

Concen: 1.898 ug/L

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX018523.D

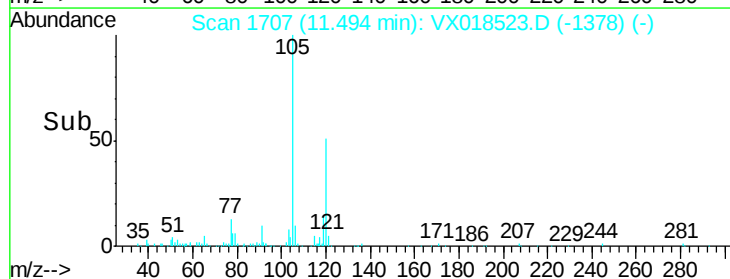
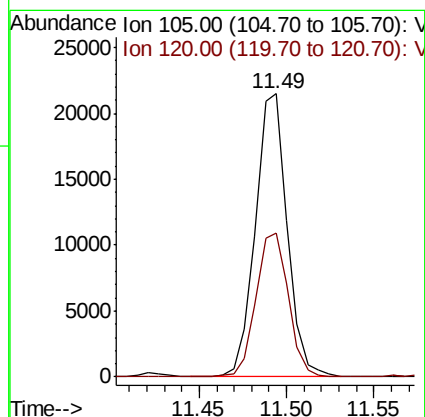
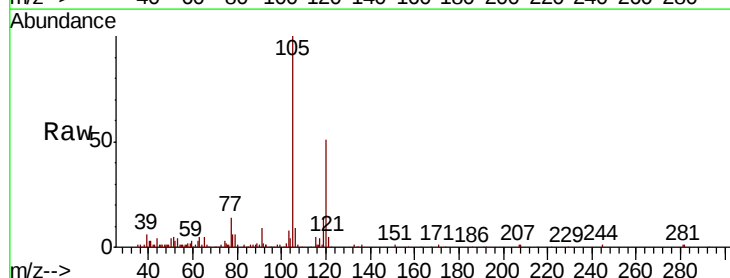
Acq: 22 Sep 2020 14:28

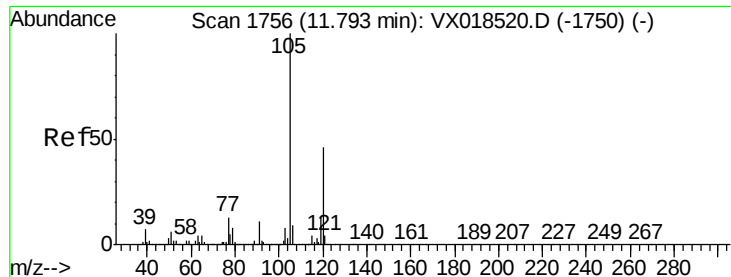
Tgt Ion: 105 Resp: 27488

Ion Ratio Lower Upper

105 100

120 51.5 38.6 58.0





#63

1,2,4-Trimethylbenzene

Concen: 1.870 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

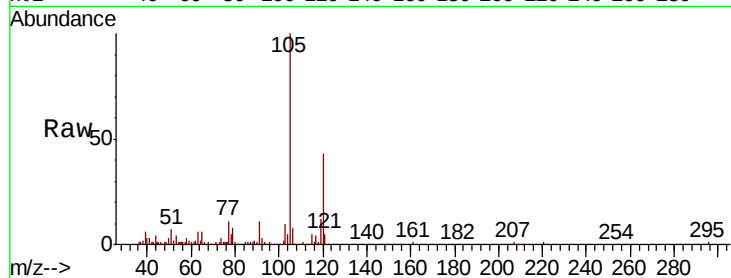
MDL01

Tot Ion:105 Resp: 27584

Ion Ratio Lower Upper

105 100

120 44.9 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

25000

20000

15000

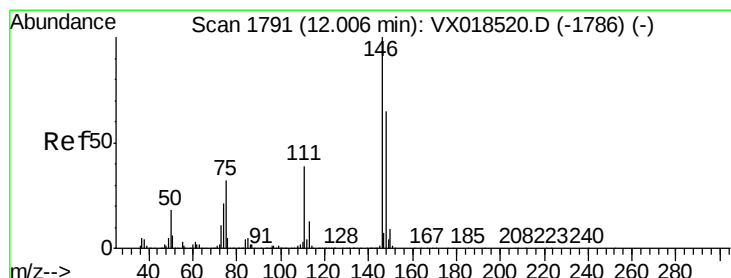
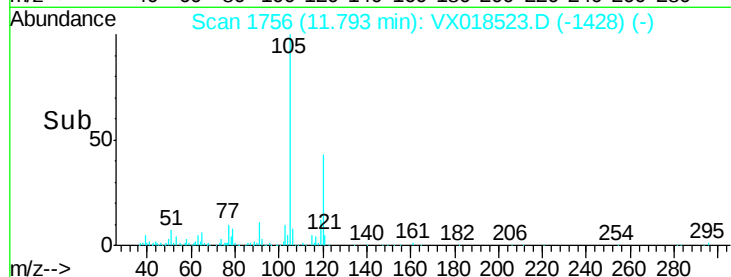
10000

5000

0

Time-->

11.75 11.80



#64

1,3-Dichlorobenzene

Concen: 2.138 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

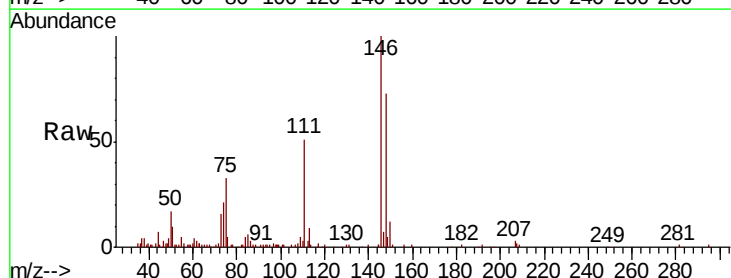
Tgt Ion:146 Resp: 18526

Ion Ratio Lower Upper

146 100

111 51.5 27.8 51.6

148 72.6 42.6 79.2



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

12.01

15000

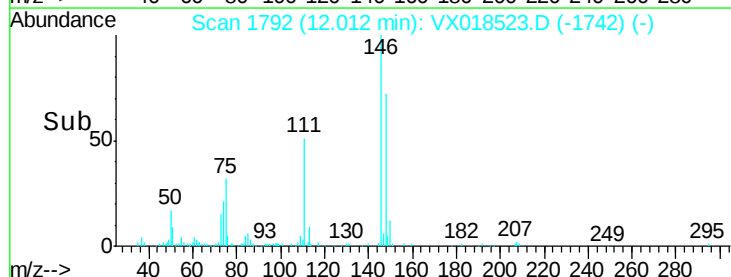
10000

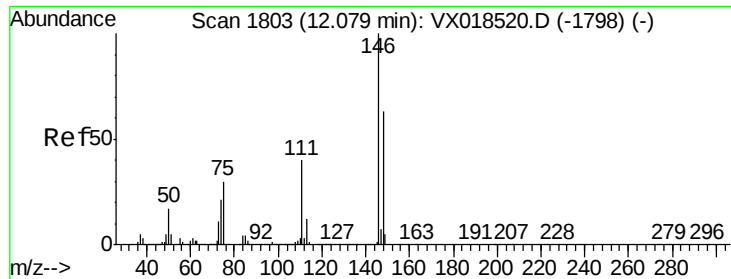
5000

0

Time-->

11.95 12.00 12.05





#65

1,4-Dichlorobenzene

Concen: 2.409 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

MDL01

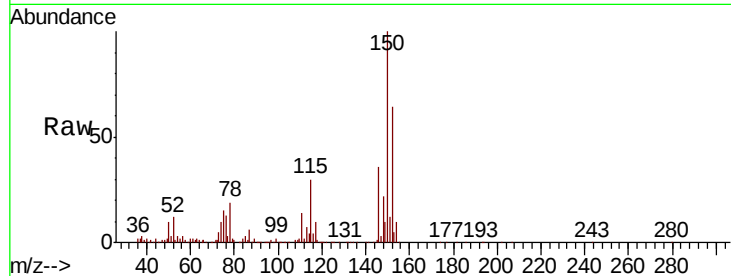
Tot Ion:146 Resp: 21078

Ion Ratio Lower Upper

146 100

111 38.6 27.9 51.7

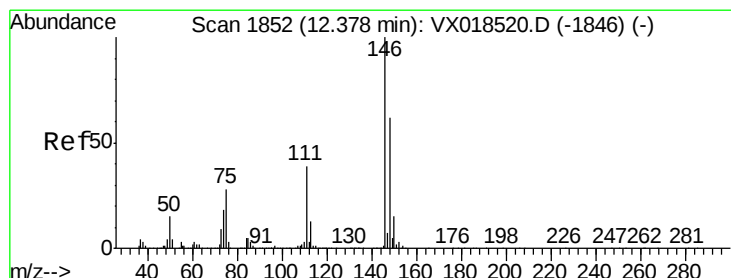
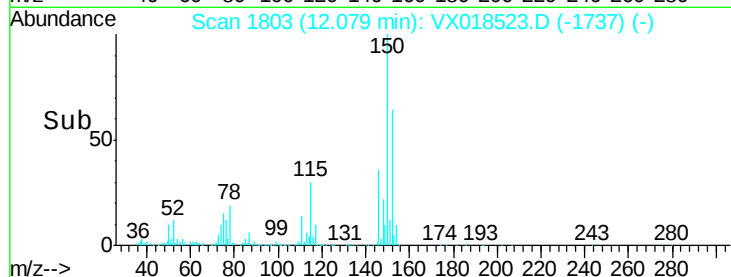
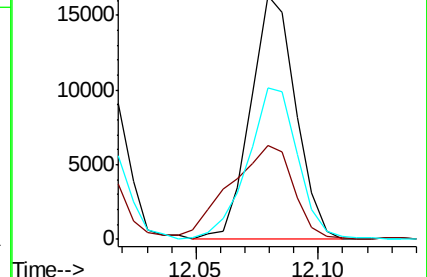
148 62.1 40.5 75.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,2-Dichlorobenzene

Concen: 2.484 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

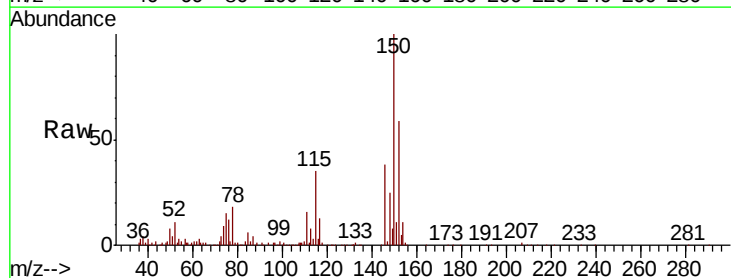
Tgt Ion:146 Resp: 20723

Ion Ratio Lower Upper

146 100

111 42.1 33.1 49.7

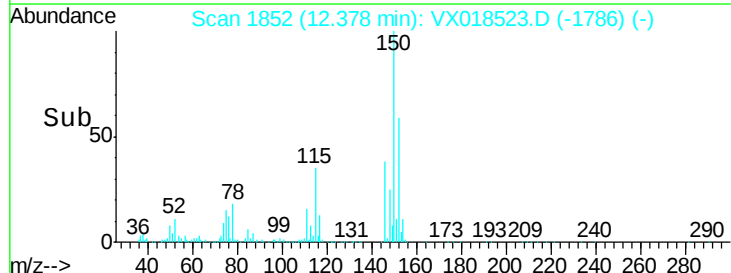
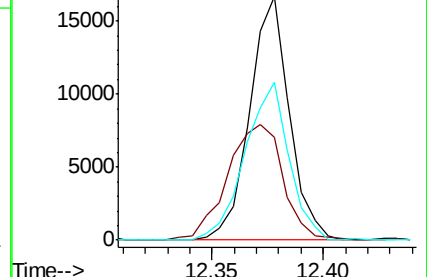
148 64.9 48.4 72.6

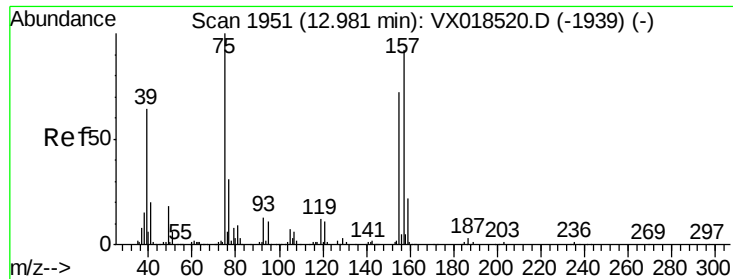


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

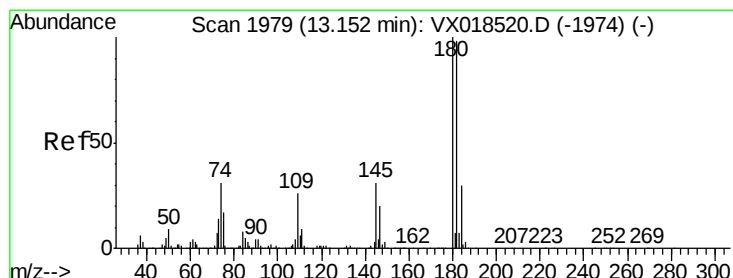
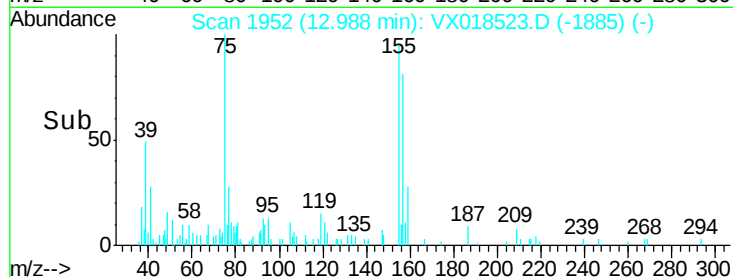
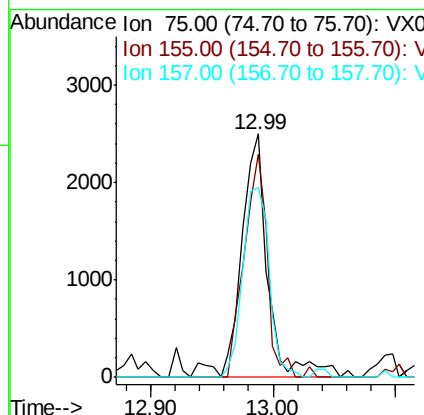
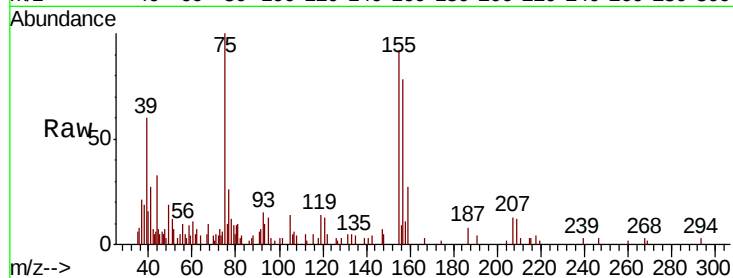




#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.583 ug/L  
 RT: 12.99 min Scan# 1952  
 Delta R.T. 0.01 min  
 Lab File: VX018523.D  
 Acq: 22 Sep 2020 14:28

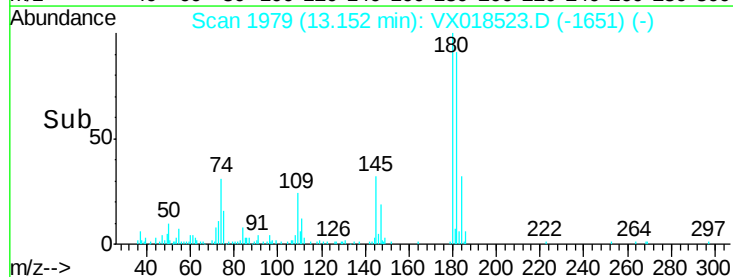
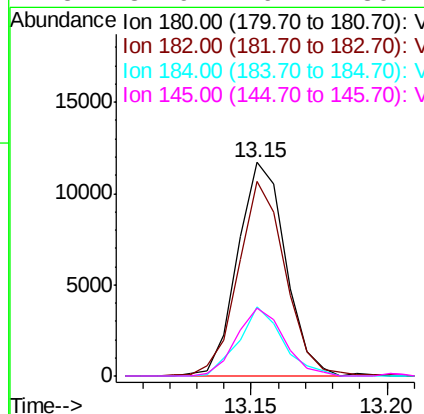
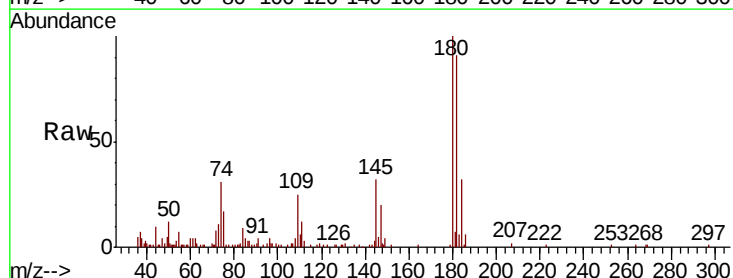
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL01

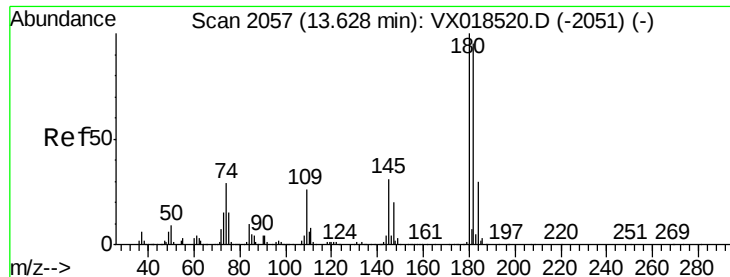
Tot Ion: 75 Resp: 3748  
 Ion Ratio Lower Upper  
 75 100  
 155 91.7 59.4 89.0#  
 157 78.2 80.7 121.1#



#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.482 ug/L  
 RT: 13.15 min Scan# 1979  
 Delta R.T. 0.00 min  
 Lab File: VX018523.D  
 Acq: 22 Sep 2020 14:28

Tgt Ion: 180 Resp: 14267  
 Ion Ratio Lower Upper  
 180 100  
 182 89.9 82.5 123.7  
 184 30.0 25.4 38.2  
 145 31.9 26.2 39.2





#70

1,2,4-trichlorobenzene

Concen: 2.175 ug/L

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

Instrument :

MSVOA\_X

ClientSampled :

MDL01

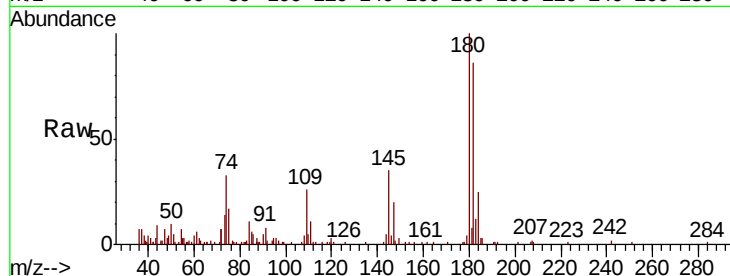
Tot Ion:180 Resp: 11472

Ion Ratio Lower Upper

180 100

182 101.0 78.6 118.0

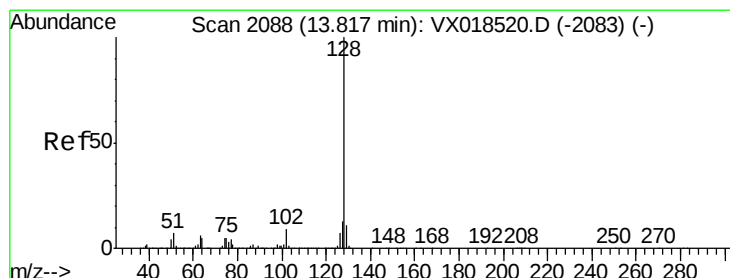
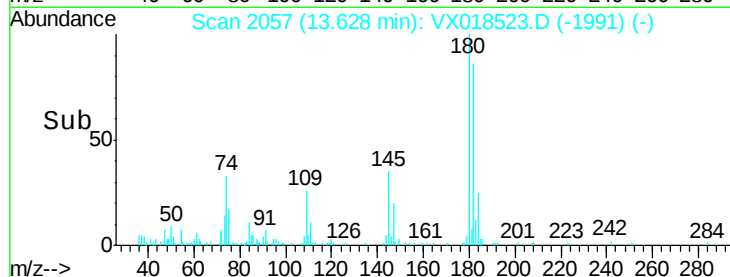
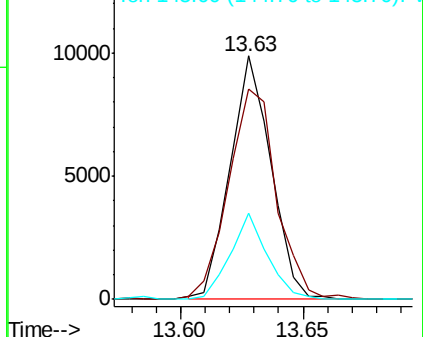
145 32.0 27.0 40.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#71

Naphthalene

Concen: 1.838 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018523.D

Acq: 22 Sep 2020 14:28

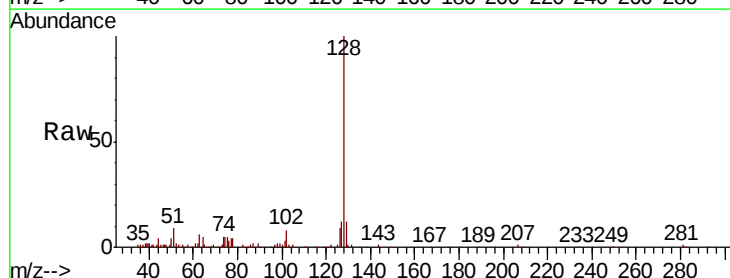
Tgt Ion:128 Resp: 30263

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

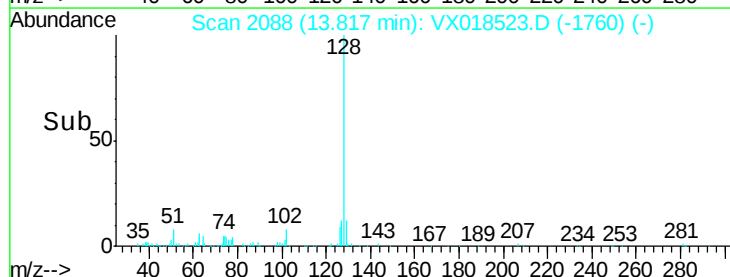
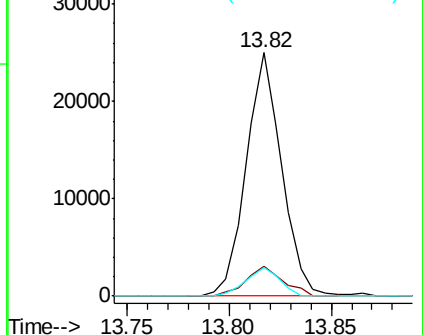
129 11.0 8.8 13.2

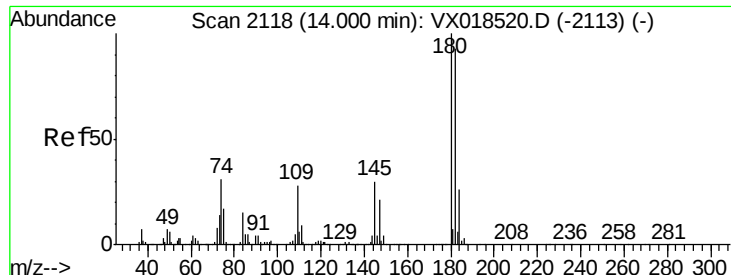


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

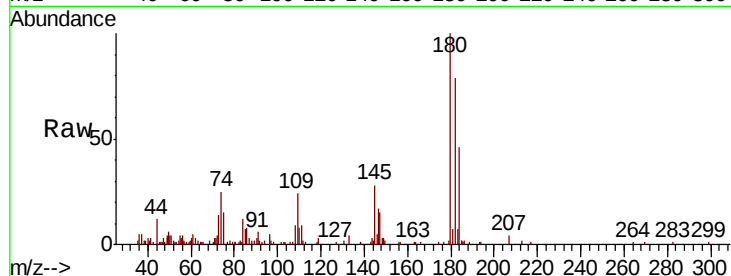




#72  
 1,2,3-Trichlorobenzene  
 Concen: 2.123 ug/L  
 RT: 14.01 min Scan# 2119  
 Delta R.T. 0.01 min  
 Lab File: VX018523.D  
 Acq: 22 Sep 2020 14:28

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 180     | 100  |       |       |       |
| 182     | 89.1 | 76.6  | 114.8 |       |
| 145     | 33.0 | 27.1  | 40.7  |       |



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

