

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\  
 Data File : VN061510.D  
 Acq On : 20 May 2020 19:00  
 Operator : JC/MD  
 Sample : L2720-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 21 01:13:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

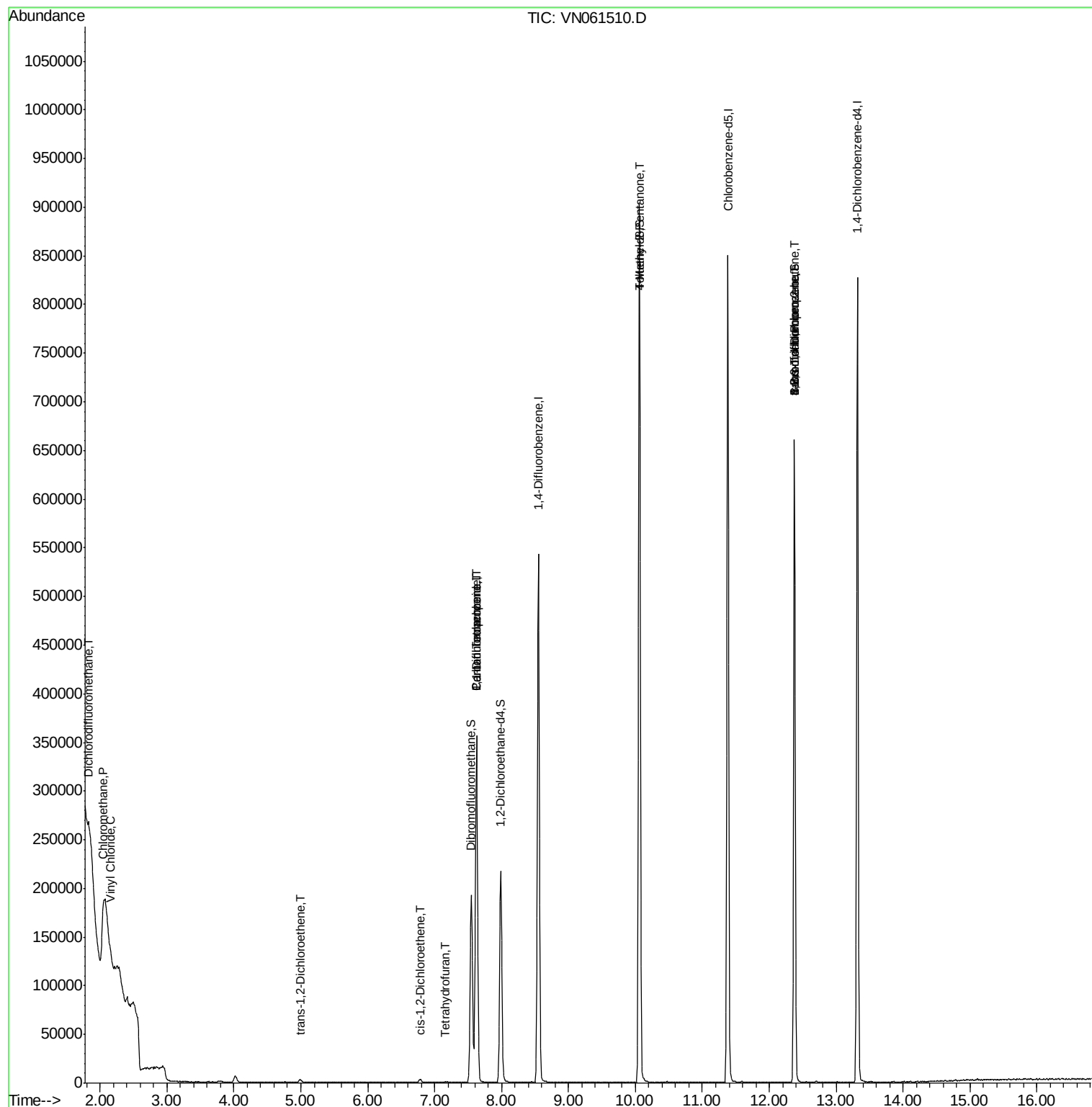
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.63  | 168  | 284234   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.55  | 114  | 509325   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.38 | 117  | 497691   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.32 | 152  | 221726   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.99  | 65   | 189211   | 44.60     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.20%  |          |
| 35) Dibromofluoromethane       | 7.55  | 113  | 147458   | 55.26     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.52% |          |
| 50) Toluene-d8                 | 10.06 | 98   | 636927   | 51.47     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 102.94% |          |
| 62) 4-Bromofluorobenzene       | 12.38 | 95   | 240855   | 52.09     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.18% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.83  | 85   | 1697     | 0.718     | ug/l    | 86       |
| 3) Chloromethane               | 2.04  | 50   | 808      | 0.210     | ug/l    | 94       |
| 4) Vinyl Chloride              | 2.16  | 62   | 3171     | 0.575     | ug/l    | 93       |
| 5) Bromomethane                | 2.54  | 94   | 335      | Below Cal | #       | 32       |
| 16) Acetone                    | 3.78  | 43   | 1802     | Below Cal | #       | 86       |
| 17) Carbon Disulfide           | 4.00  | 76   | 261      | Below Cal | #       | 75       |
| 18) Methyl Acetate             | 4.29  | 43   | 135      | Below Cal | #       | 49       |
| 21) trans-1,2-Dichloroethene   | 4.99  | 96   | 2295     | 0.683     | ug/l #  | 76       |
| 27) cis-1,2-Dichloroethene     | 6.78  | 96   | 1720     | 0.433     | ug/l    | 92       |
| 29) Tetrahydrofuran            | 7.17  | 42   | 496      | 0.388     | ug/l #  | 47       |
| 31) Cyclohexane                | 7.62  | 56   | 5801     | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 22509    | 4.726     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 28608    | 6.524     | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 2711     | 0.661     | ug/l #  | 1        |
| 71) Bromoform                  | 12.37 | 173  | 1747     | 2.613     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 122590   | 25.767    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 122590   | 68.353    | ug/l #  | 12       |

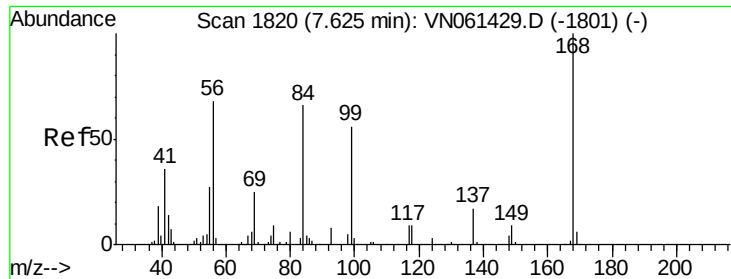
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052020\  
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Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 21 01:13:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

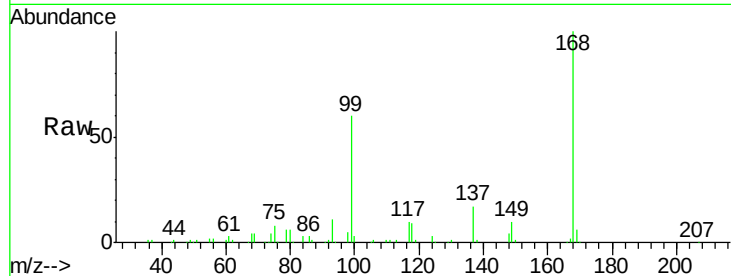
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 284234

Ion Ratio Lower Upper

168 100

99 60.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

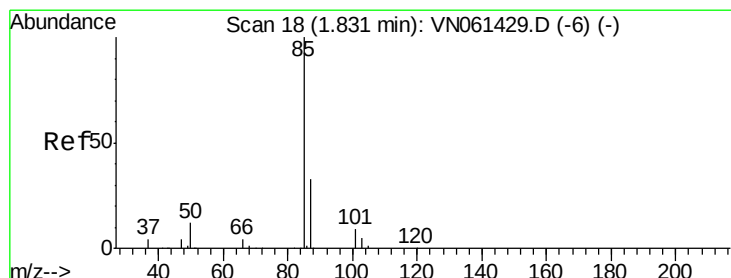
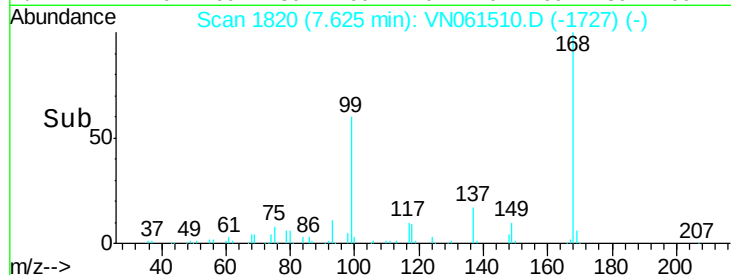
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.718 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN061510.D

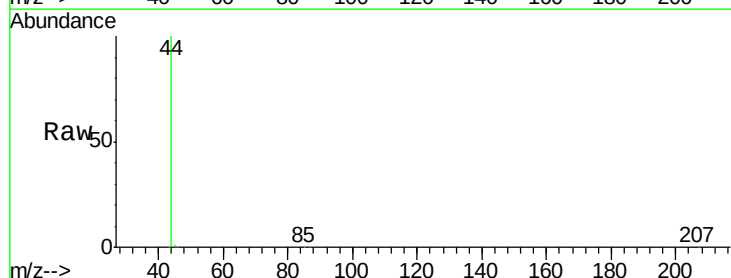
Acq: 20 May 2020 19:00

Tgt Ion: 85 Resp: 1697

Ion Ratio Lower Upper

85 100

87 40.2 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

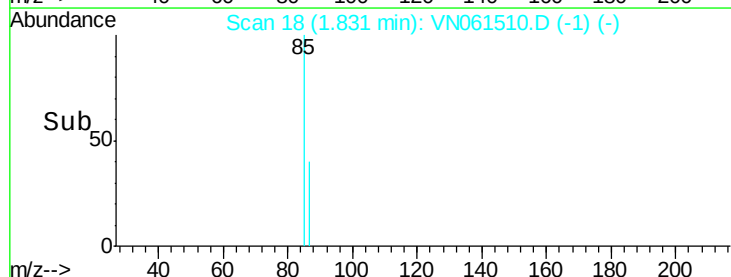
1500

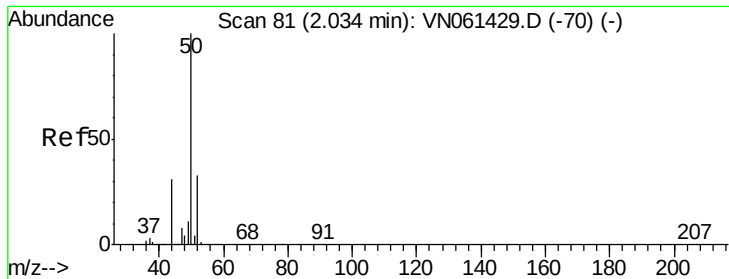
1000

500

0

Time--> 1.78 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.210 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

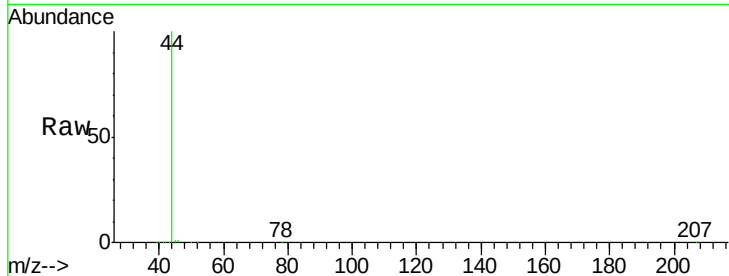
ClientSampleId :

Tot Ion: 50 Resp: 808

Ion Ratio Lower Upper

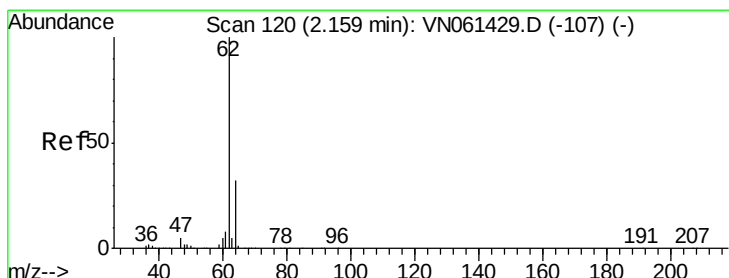
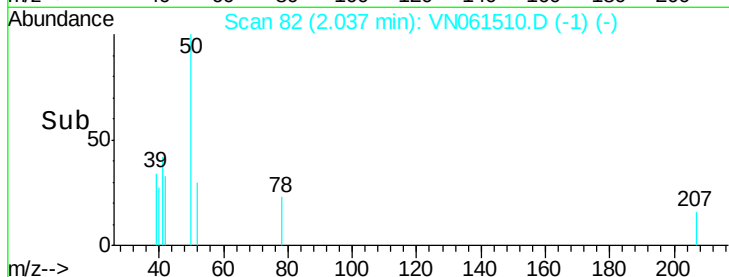
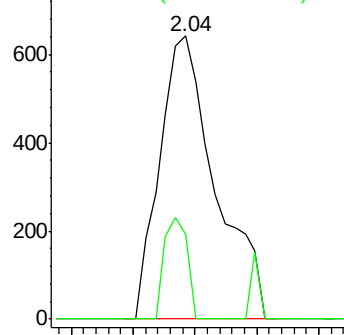
50 100

52 30.2 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 0.575 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061510.D

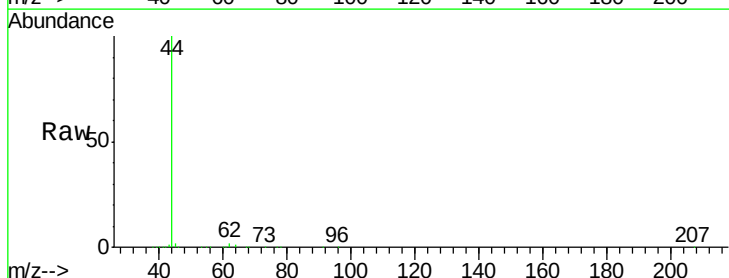
Acq: 20 May 2020 19:00

Tgt Ion: 62 Resp: 3171

Ion Ratio Lower Upper

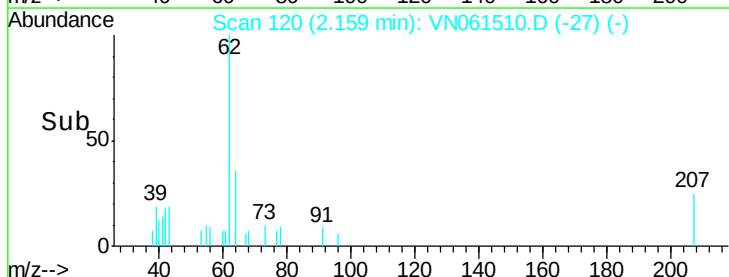
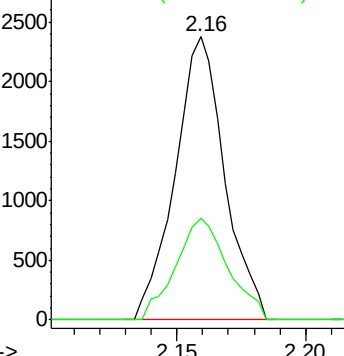
62 100

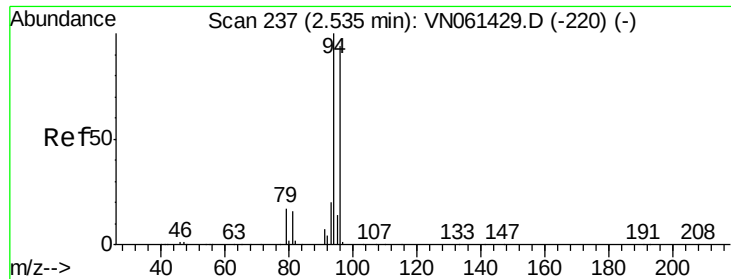
64 35.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

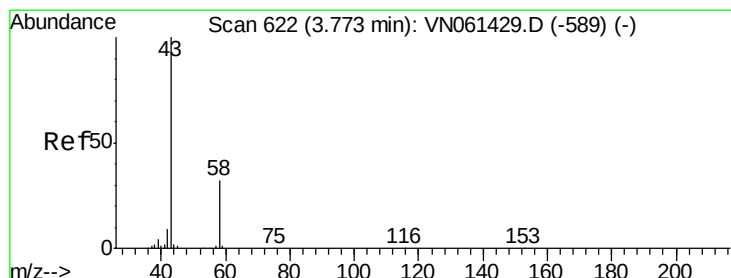
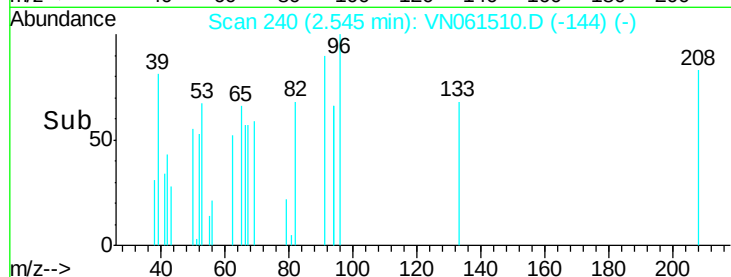
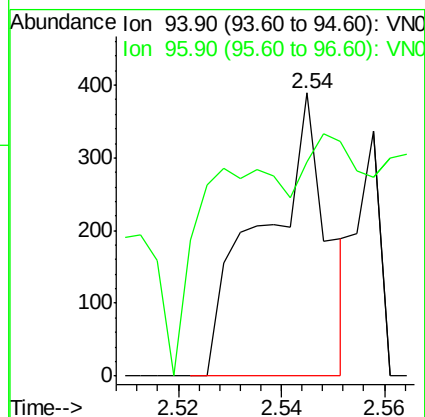
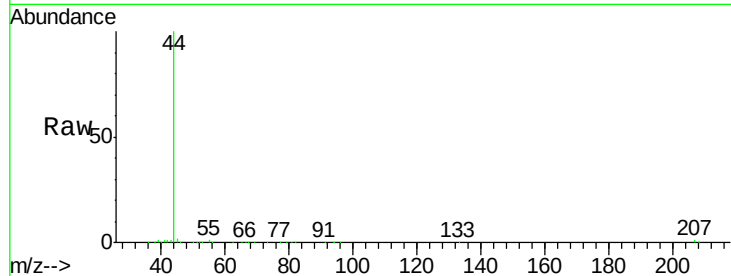
ClientSampled :

Tot Ion: 94 Resp: 335

Ion Ratio Lower Upper

94 100

96 27.8 74.9 112.3#



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061510.D

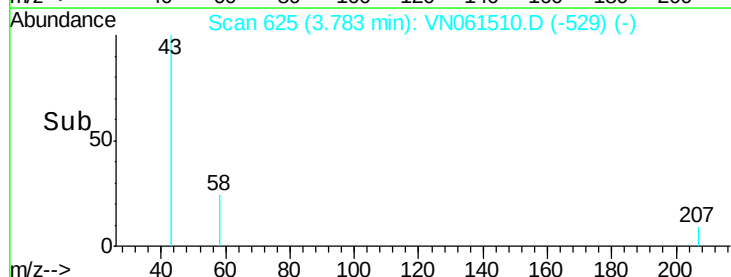
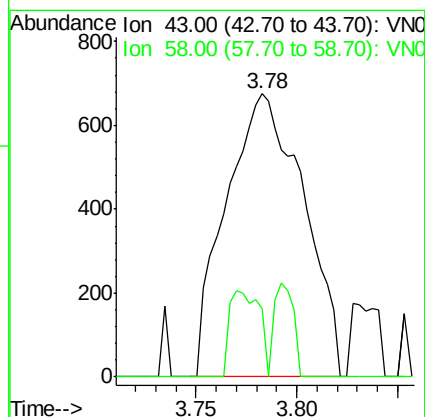
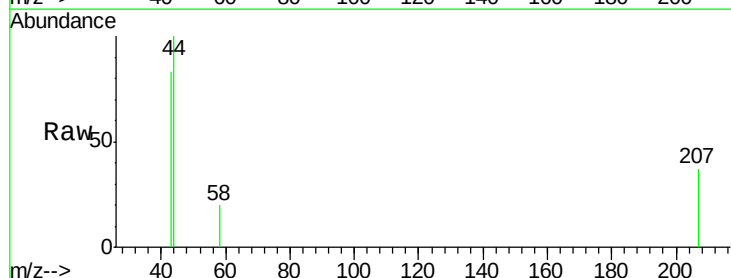
Acq: 20 May 2020 19:00

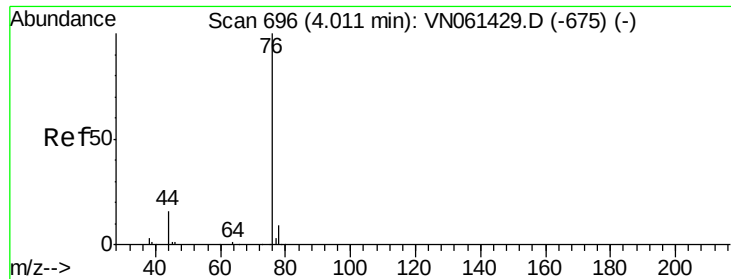
Tgt Ion: 43 Resp: 1802

Ion Ratio Lower Upper

43 100

58 24.3 25.6 38.4#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. -0.01 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

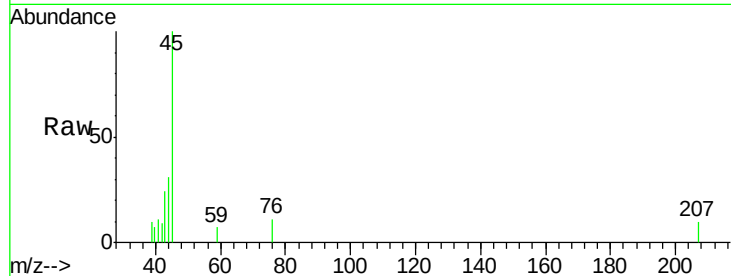
ClientSampled :

Tot Ion: 76 Resp: 261

Ion Ratio Lower Upper

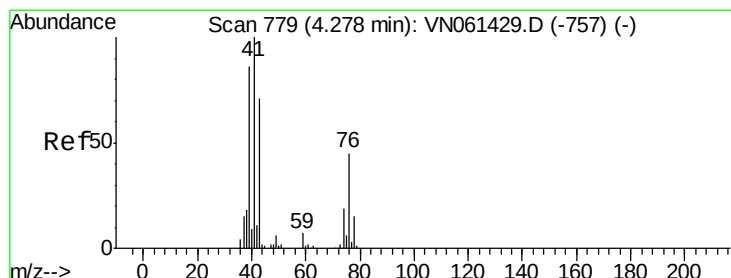
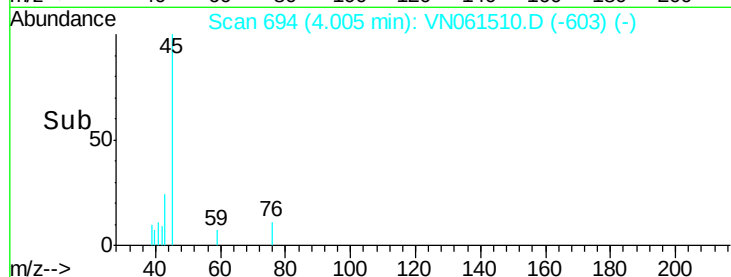
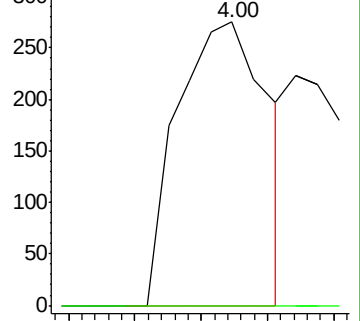
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 784

Delta R.T. 0.02 min

Lab File: VN061510.D

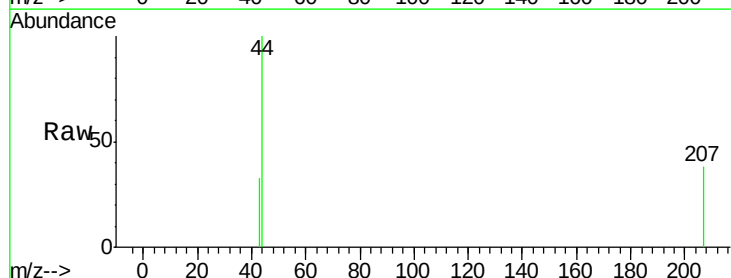
Acq: 20 May 2020 19:00

Tgt Ion: 43 Resp: 135

Ion Ratio Lower Upper

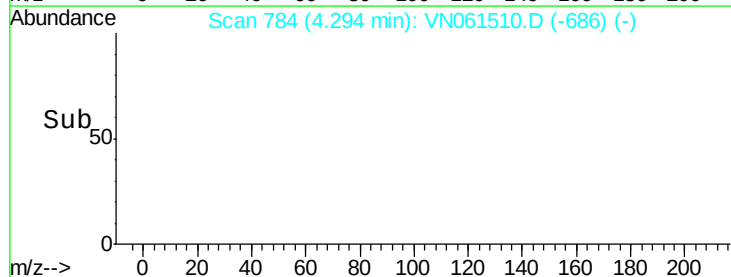
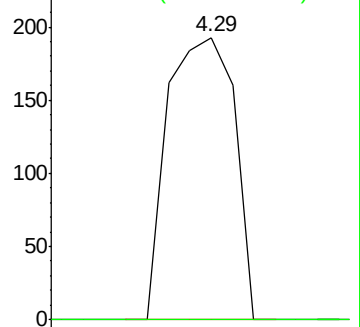
43 100

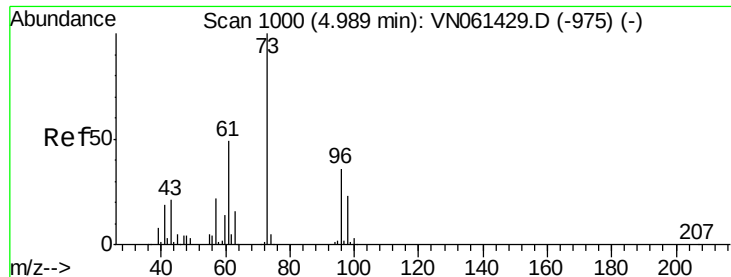
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#21

trans-1,2-Dichloroethene

Concen: 0.683 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

ClientSampleId :

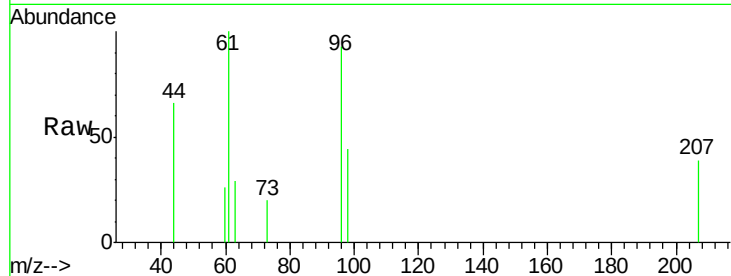
Tot Ion: 96 Resp: 2295

Ion Ratio Lower Upper

96 100

61 108.1 109.8 164.6#

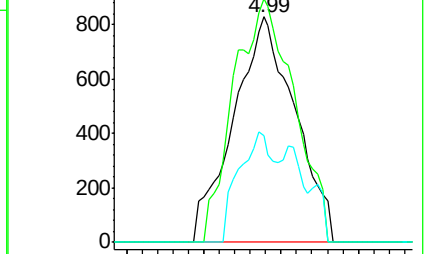
98 47.1 52.4 78.6#



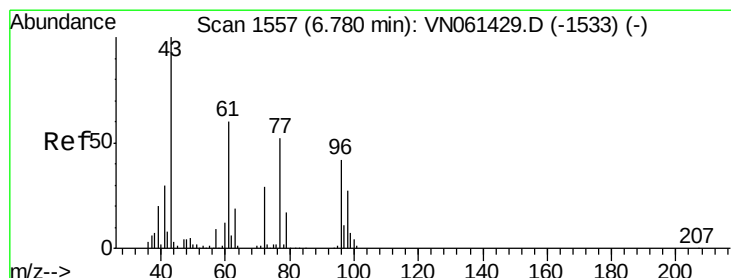
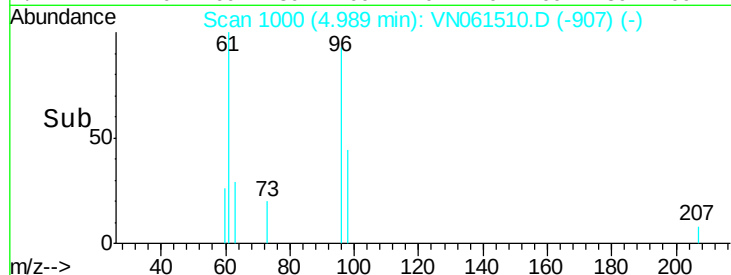
Abundance Ion 95.90 (95.60 to 96.60): VN061510.D (-907) (-)

Ion 60.90 (60.60 to 61.60): VN061510.D (-907) (-)

Ion 97.90 (97.60 to 98.60): VN061510.D (-907) (-)



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.433 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

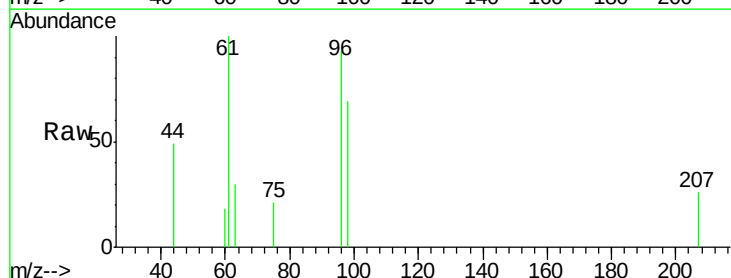
Tgt Ion: 96 Resp: 1720

Ion Ratio Lower Upper

96 100

61 148.8 0.0 294.2

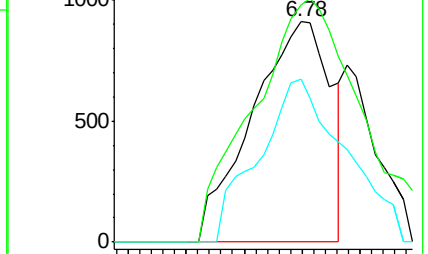
98 81.6 0.0 128.2



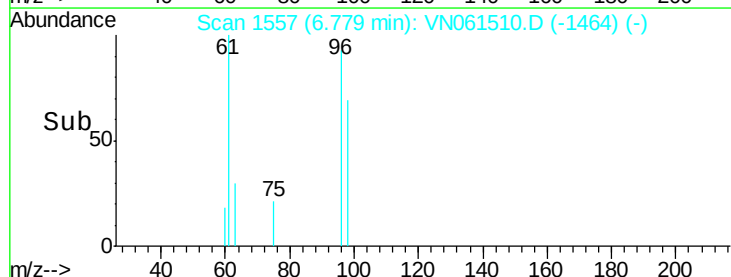
Abundance Ion 95.90 (95.60 to 96.60): VN061510.D (-1464) (-)

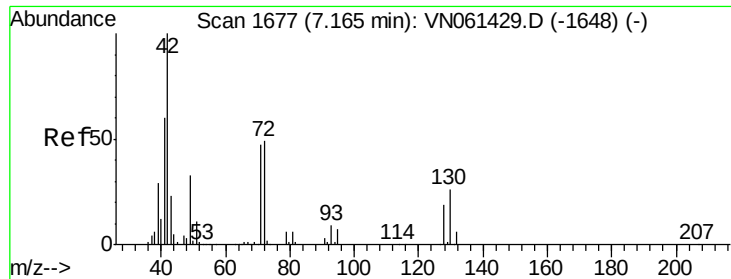
Ion 60.90 (60.60 to 61.60): VN061510.D (-1464) (-)

Ion 97.90 (97.60 to 98.60): VN061510.D (-1464) (-)



Time-->

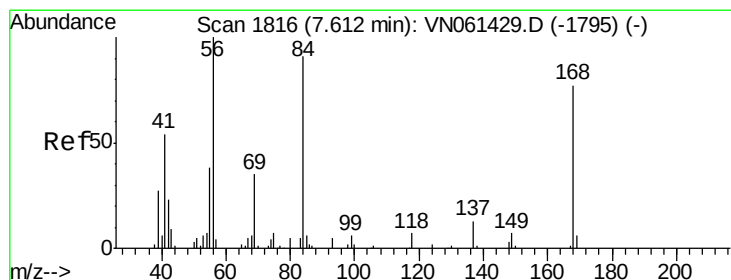
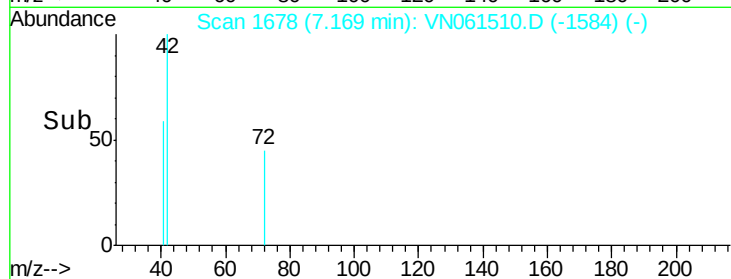
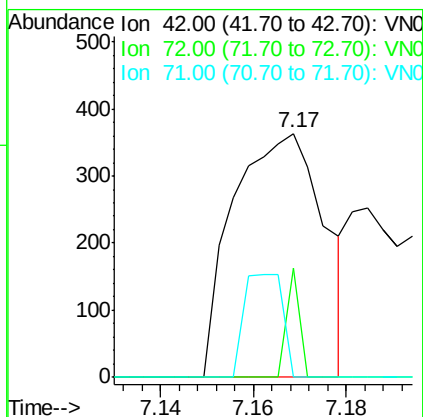
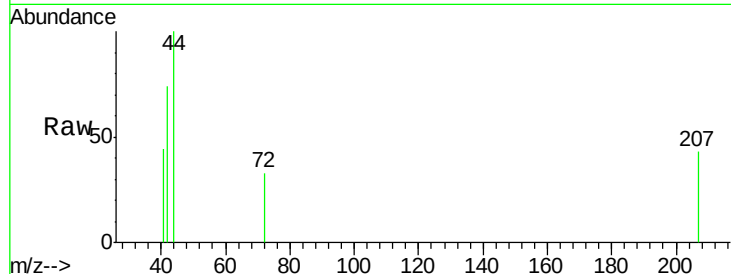




#29  
Tetrahydrofuran  
Concen: 0.388 ug/l  
RT: 7.17 min Scan# 1678  
Delta R.T. 0.00 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

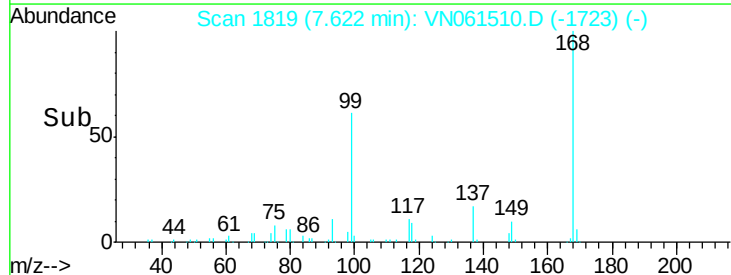
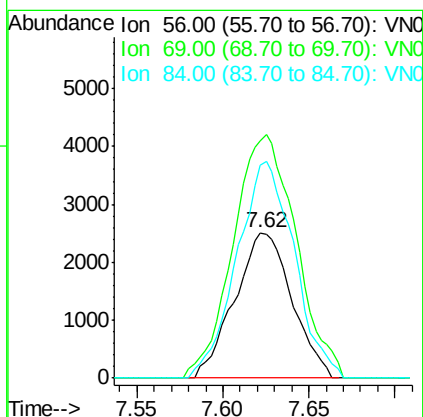
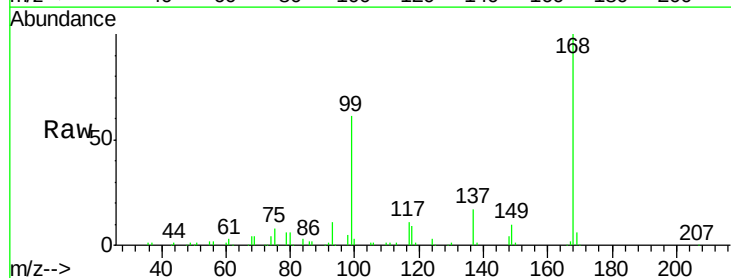
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 42 Resp: 496  
Ion Ratio Lower Upper  
42 100  
72 6.3 39.0 58.6#  
71 17.7 36.9 55.3#

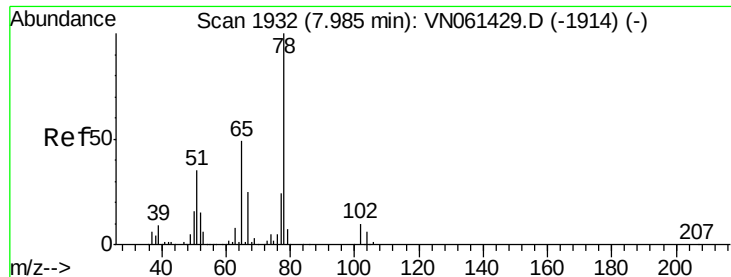


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.62 min Scan# 1819  
Delta R.T. 0.01 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

Tgt Ion: 56 Resp: 5801  
Ion Ratio Lower Upper  
56 100  
69 156.5 27.8 41.6#  
84 146.7 72.7 109.1#



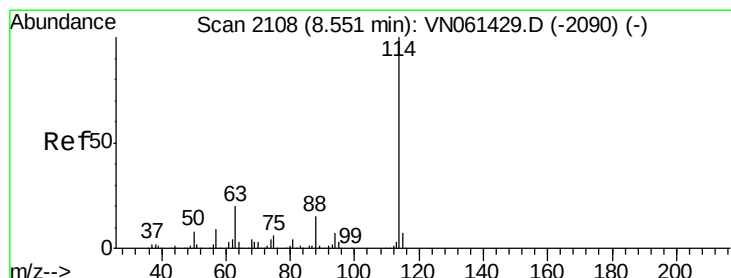
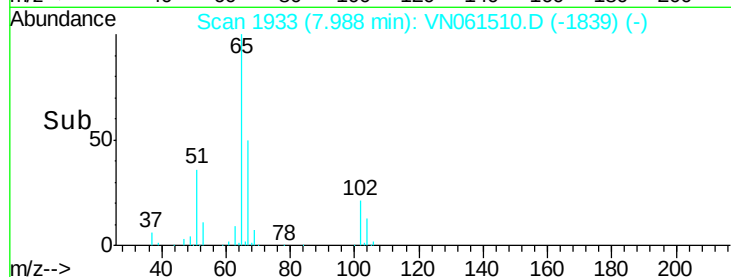
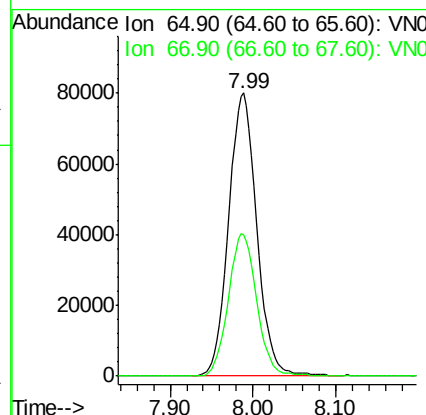
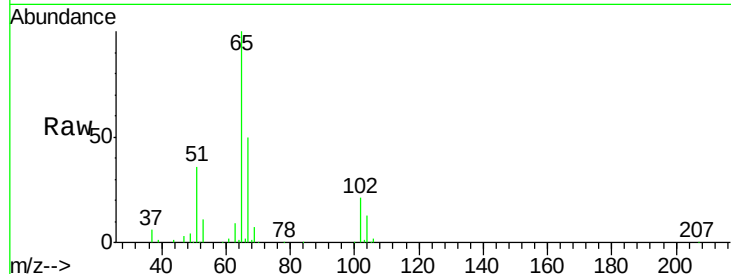




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.604 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. 0.00 min  
 Lab File: VN061510.D  
 Acq: 20 May 2020 19:00

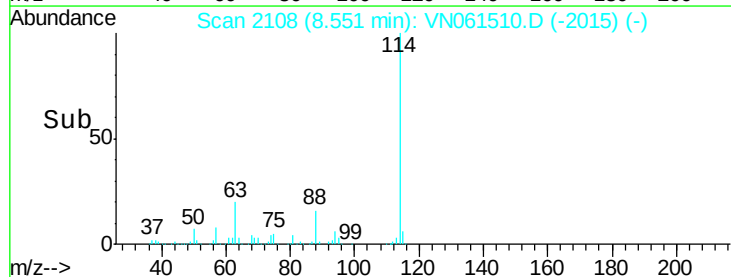
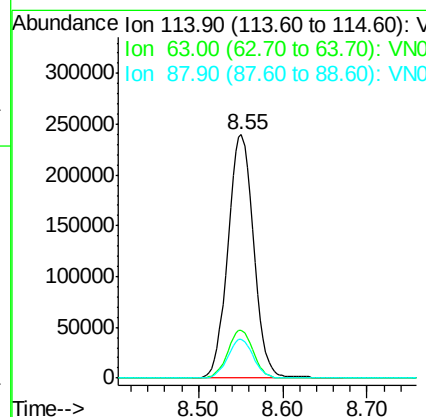
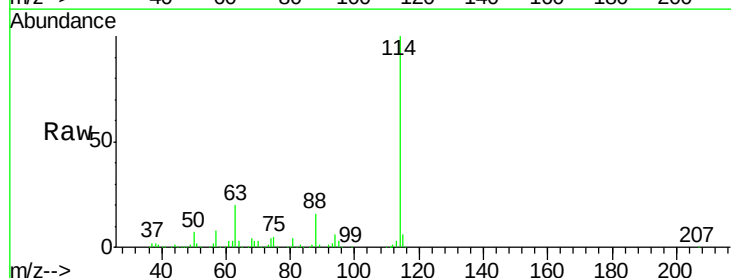
Instrument :  
 MSVOA\_N  
 ClientSampleId :

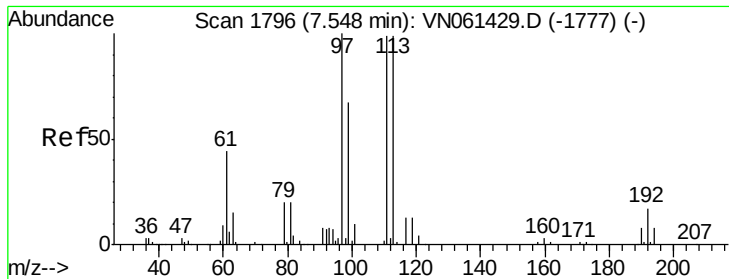
Tot Ion: 65 Resp: 189211  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 101.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061510.D  
 Acq: 20 May 2020 19:00

Tgt Ion: 114 Resp: 509325  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 40.8  
 88 15.8 0.0 30.8

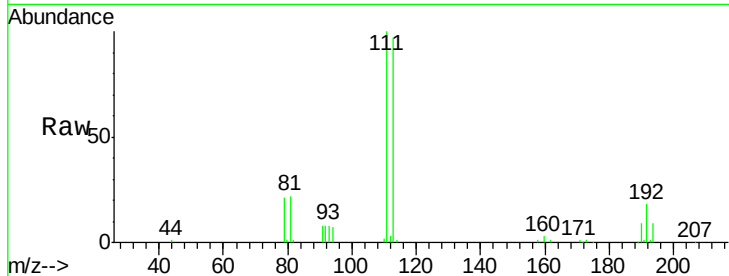




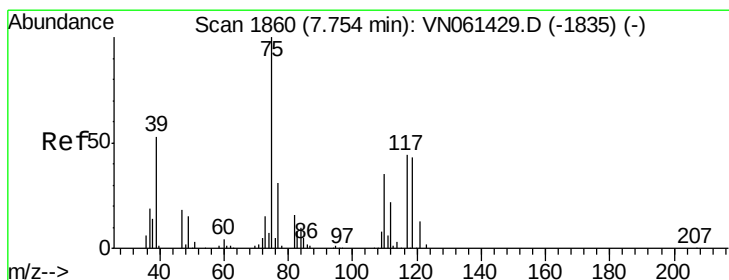
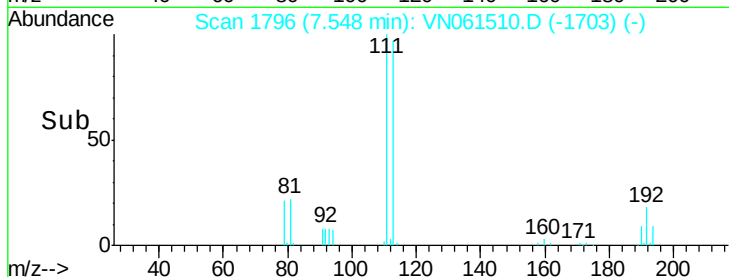
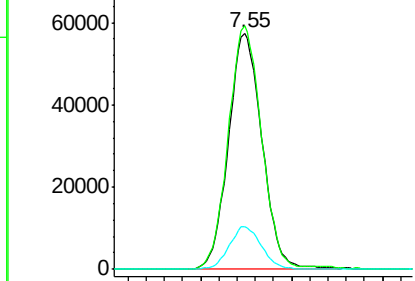
#35  
 Dibromofluoromethane  
 Concen: 55.265 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN061510.D  
 Acq: 20 May 2020 19:00

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:113 Resp: 147458  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 80.6 121.0  
 192 17.5 13.2 19.8

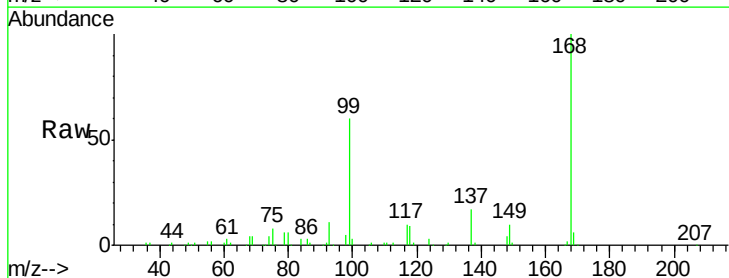


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

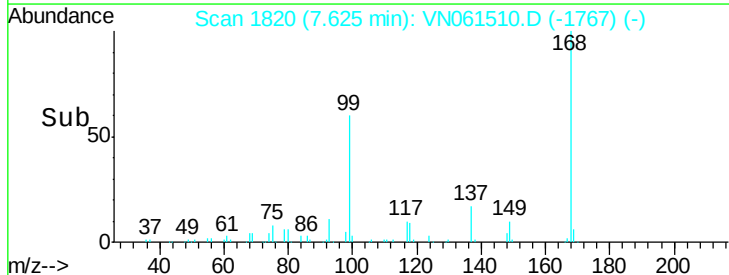
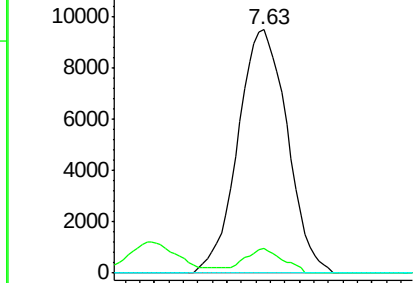


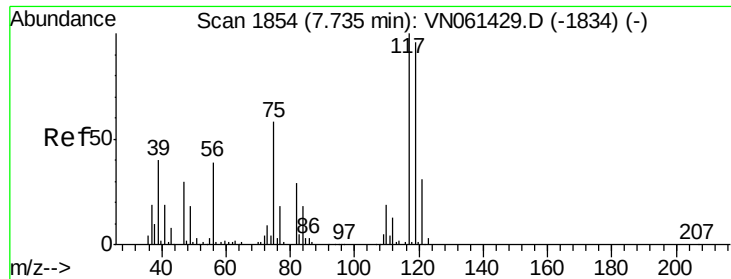
#36  
 1,1-Dichloropropene  
 Concen: 4.726 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN061510.D  
 Acq: 20 May 2020 19:00

Tgt Ion: 75 Resp: 22509  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 17.3 51.9#  
 77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V

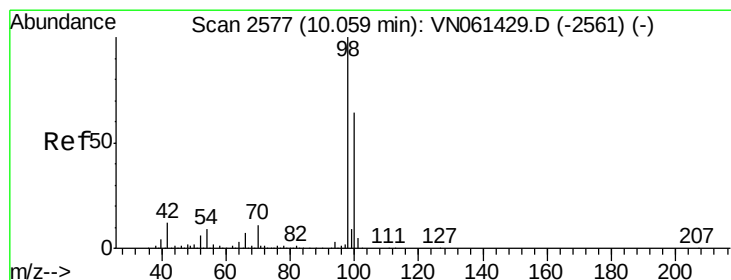
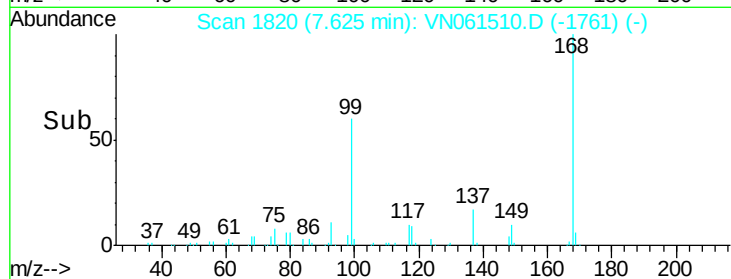
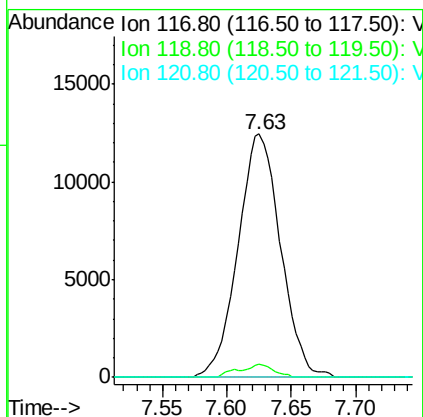
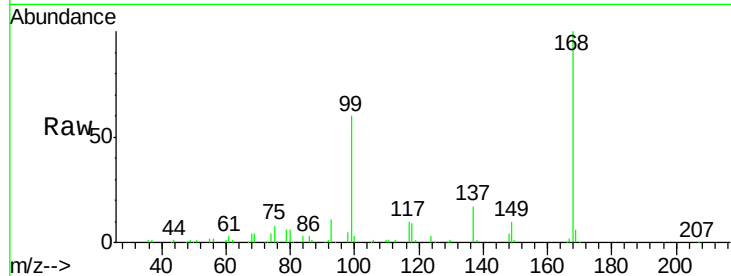




#38  
Carbon Tetrachloride  
Concen: 6.524 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. -0.11 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

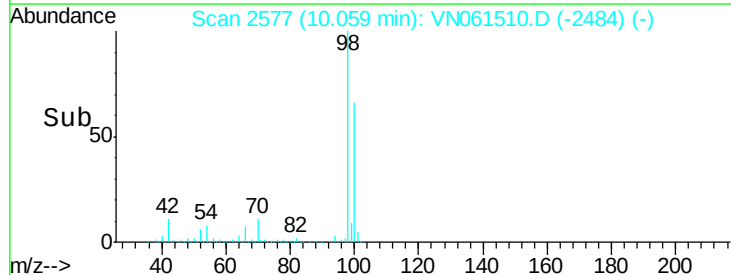
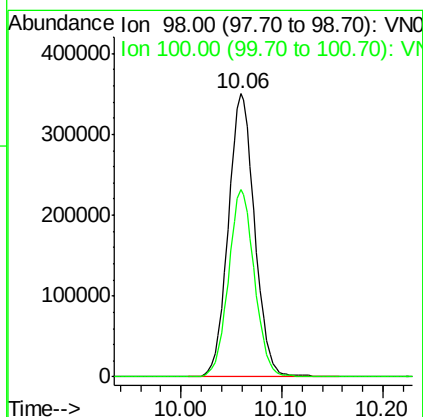
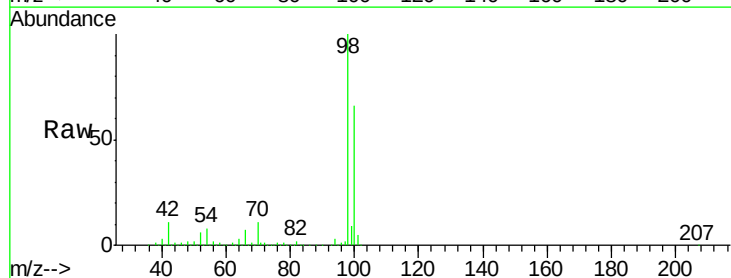
Instrument :  
MSVOA\_N  
ClientSampled :

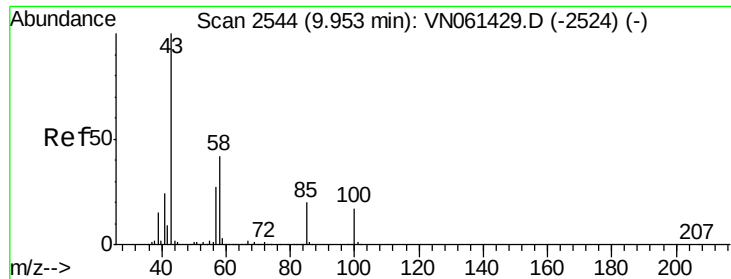
Tot Ion:117 Resp: 28608  
Ion Ratio Lower Upper  
117 100  
119 5.5 77.0 115.6#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 51.466 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

Tgt Ion: 98 Resp: 636927  
Ion Ratio Lower Upper  
98 100  
100 65.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 0.661 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

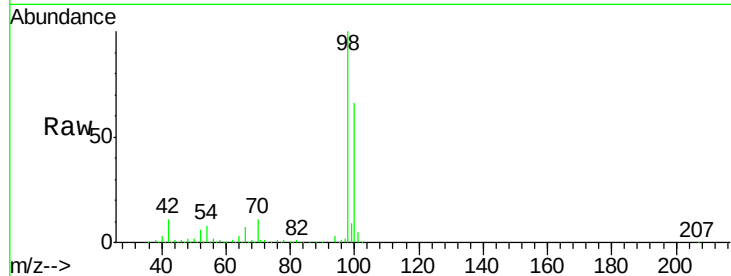
ClientSampled :

Tot Ion: 43 Resp: 2711

Ion Ratio Lower Upper

43 100

58 180.2 33.4 50.2#

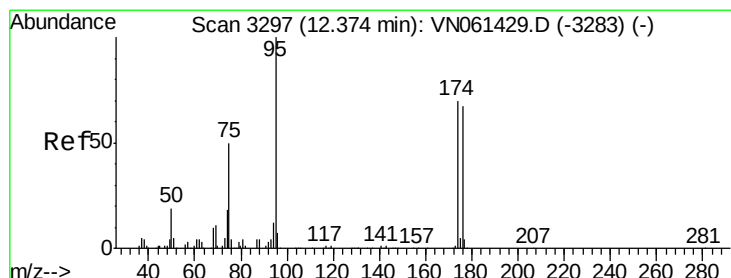
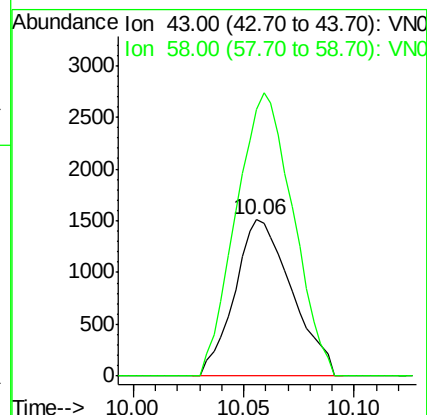
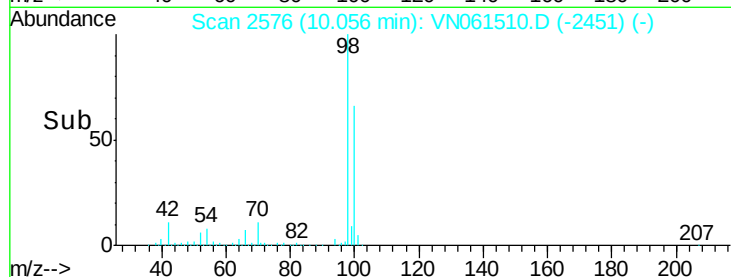


Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-2524) (-)

Ion 58.00 (57.70 to 58.70): VN061429.D (-2524) (-)

10.06

Time-->



#62

4-Bromofluorobenzene

Concen: 52.091 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

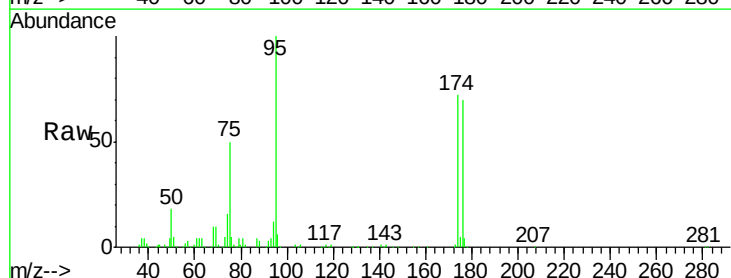
Tgt Ion: 95 Resp: 240855

Ion Ratio Lower Upper

95 100

174 73.0 0.0 141.2

176 70.4 0.0 137.6



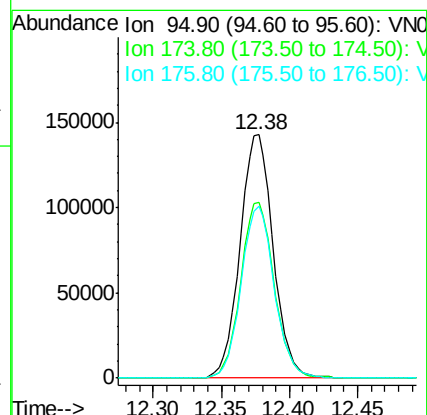
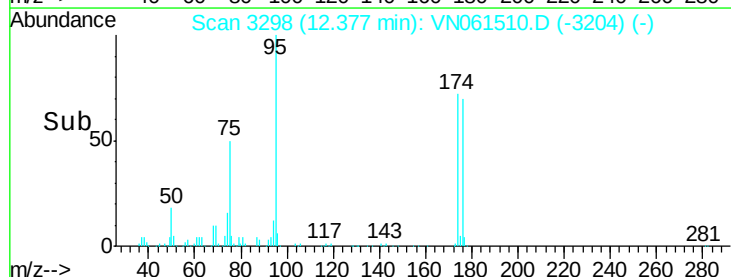
Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

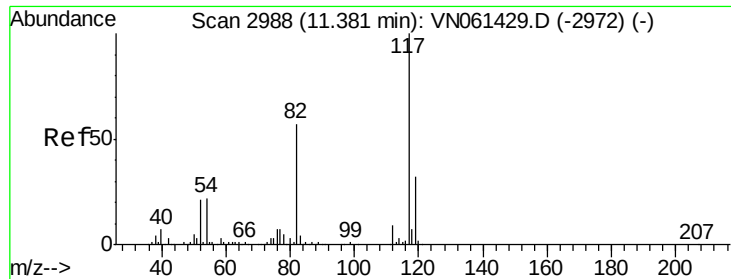
Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)

12.38

Time-->

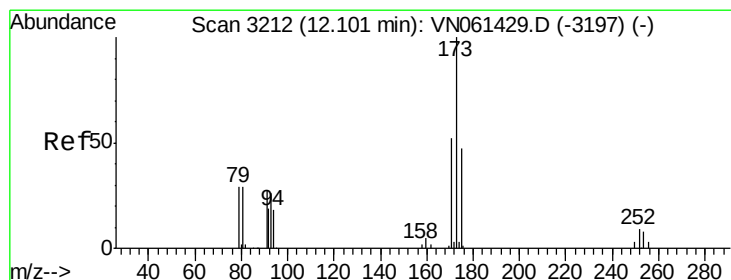
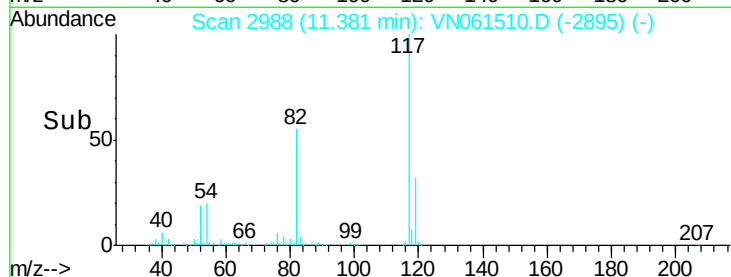
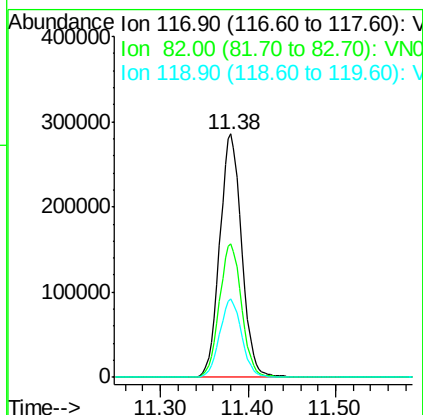
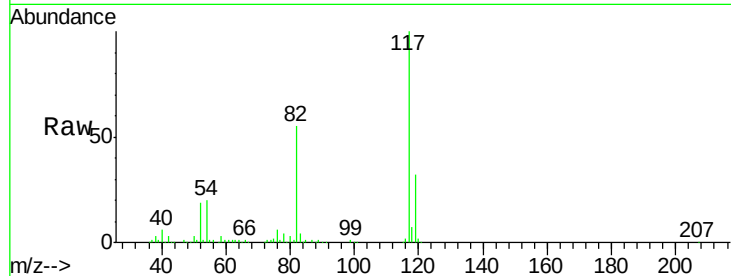




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

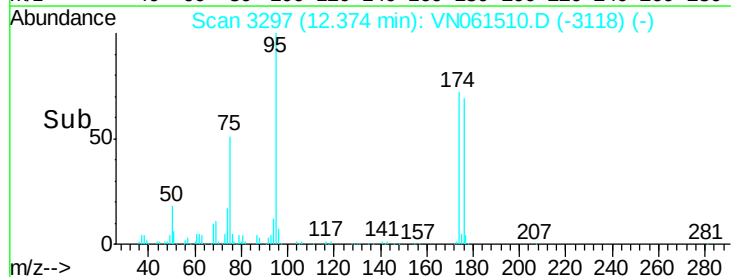
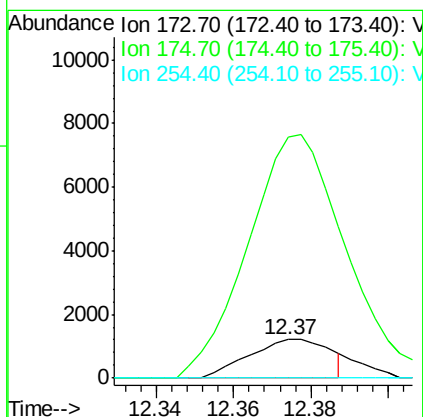
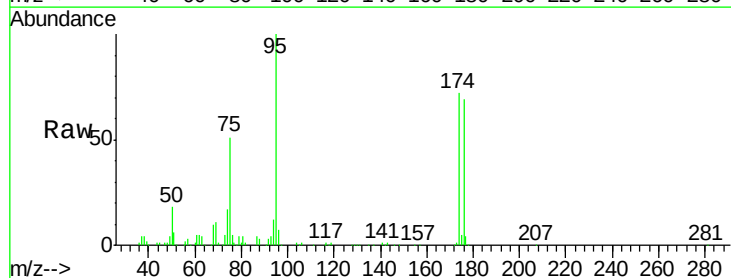
Instrument :  
MSVOA\_N  
ClientSampled :

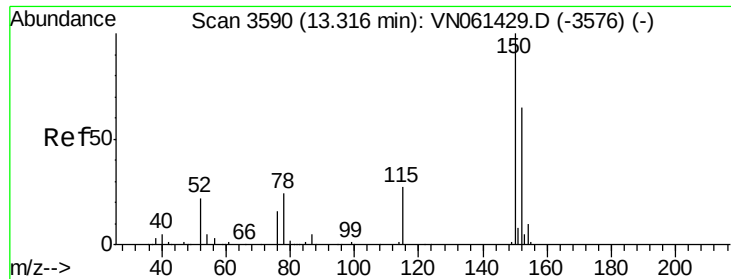
Tot Ion:117 Resp: 497691  
Ion Ratio Lower Upper  
117 100  
82 55.0 45.2 67.8  
119 32.1 25.3 37.9



#71  
Bromoform  
Concen: 2.613 ug/l  
RT: 12.37 min Scan# 3297  
Delta R.T. 0.27 min  
Lab File: VN061510.D  
Acq: 20 May 2020 19:00

Tgt Ion:173 Resp: 1747  
Ion Ratio Lower Upper  
173 100  
175 643.2 23.9 71.8#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

ClientSampled :

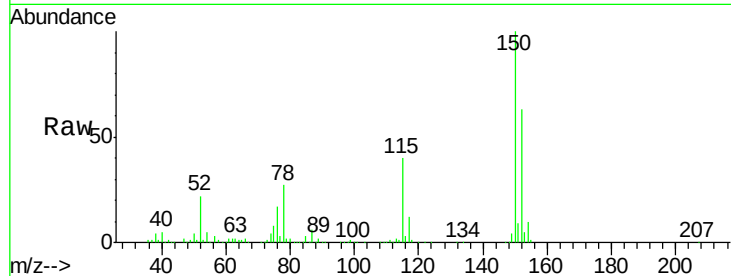
Tot Ion:152 Resp: 221726

Ion Ratio Lower Upper

152 100

115 60.8 30.9 92.5

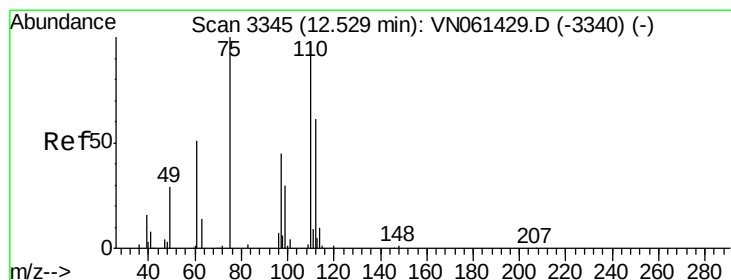
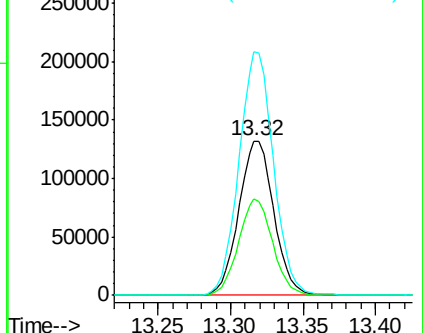
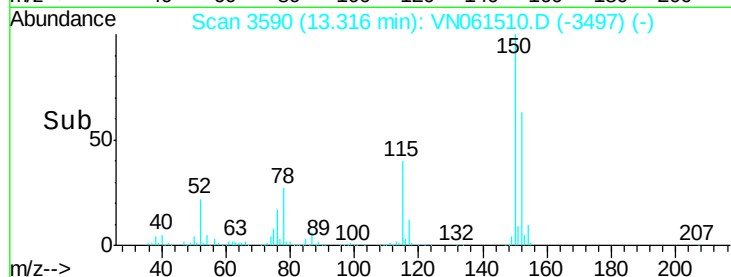
150 156.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.767 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061510.D

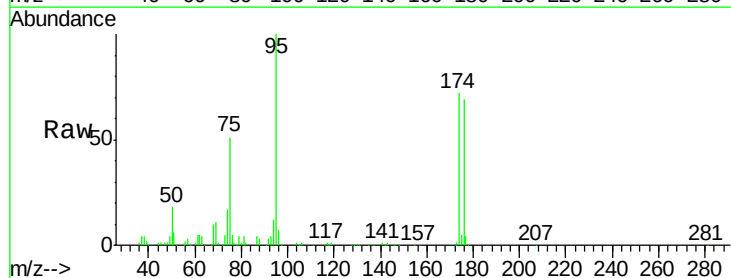
Acq: 20 May 2020 19:00

Tgt Ion: 75 Resp: 122590

Ion Ratio Lower Upper

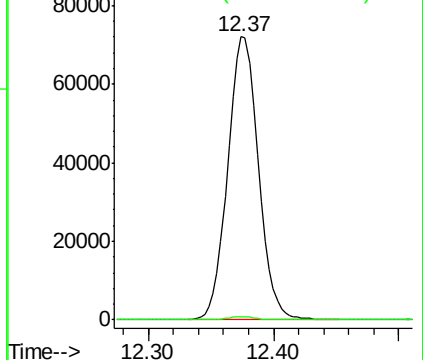
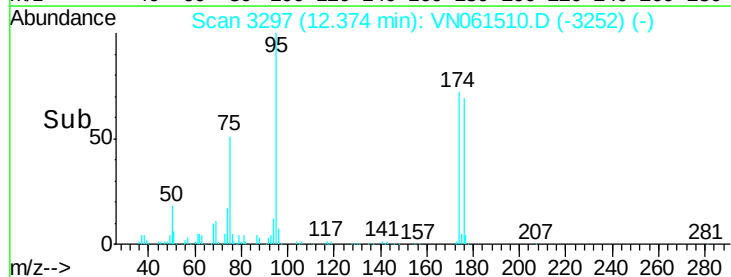
75 100

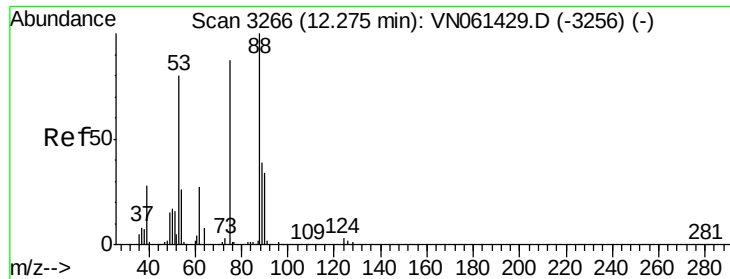
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 68.353 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA\_N

ClientSampleId :

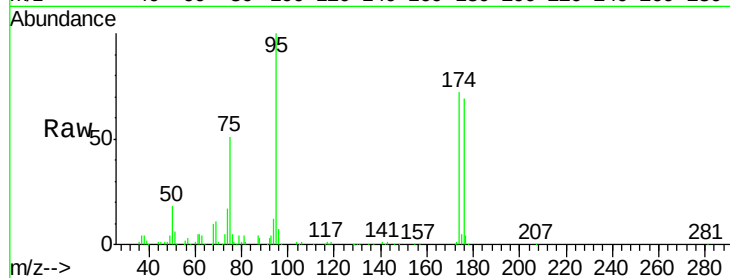
Tot Ion: 75 Resp: 122590

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

