

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040220\  
 Data File : VX015497.D  
 Acq On : 02 Apr 2020 21:02  
 Operator : JC/SP  
 Sample : L2107-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-T2-IDW01

Quant Time: Apr 03 08:05:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1052367  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1700543  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1661925  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 886564   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 711298   | 47.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.84%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 542181   | 49.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.76%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 2060722  | 51.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.98% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 887659   | 54.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.16% |          |

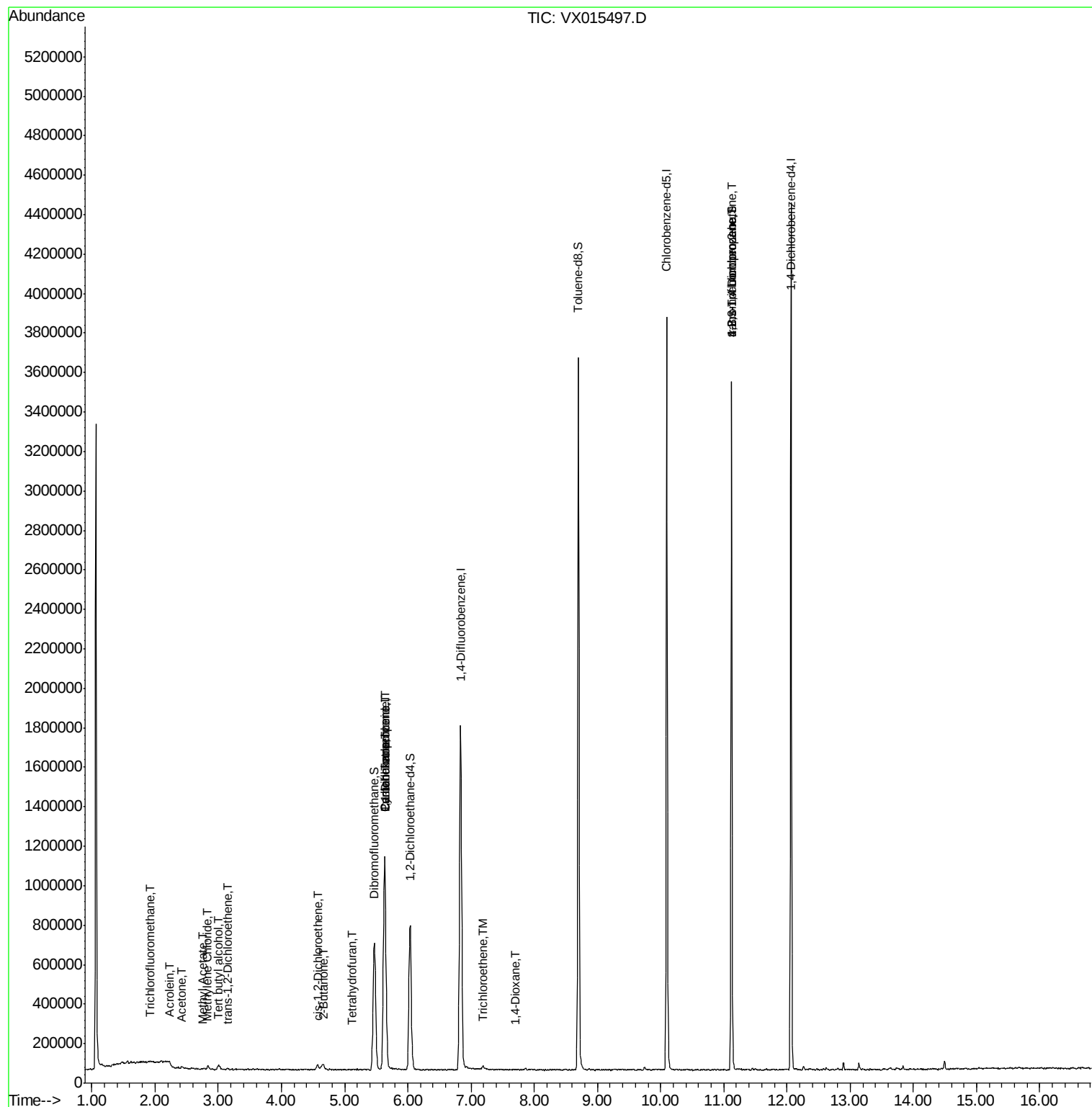
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.63  | 94   | 125      | Below Cal | #      | 56     |
| 7) Trichlorofluoromethane      | 1.92  | 101  | 3680     | 0.253     | ug/l # | 62     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 30366    | 8.547     | ug/l   | 95     |
| 13) Acrolein                   | 2.23  | 56   | 511      | 0.253     | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43   | 11337    | 1.778     | ug/l # | 87     |
| 18) Methyl Acetate             | 2.75  | 43   | 4635     | 0.285     | ug/l # | 87     |
| 20) Methylene Chloride         | 2.83  | 84   | 8278     | 0.695     | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene   | 3.15  | 96   | 2685     | 0.244     | ug/l # | 40     |
| 25) 2-Butanone                 | 4.66  | 43   | 3239     | 0.316     | ug/l # | 83     |
| 27) cis-1,2-Dichloroethene     | 4.58  | 96   | 16458    | 1.290     | ug/l   | 80     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 2117     | 0.321     | ug/l # | 83     |
| 31) Cyclohexane                | 5.63  | 56   | 21517    | 1.145     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 78212    | 4.992     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 101321   | 5.970     | ug/l # | 14     |
| 44) Trichloroethene            | 7.19  | 130  | 6505     | 0.520     | ug/l   | 88     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 438      | 1.365     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 462499   | 25.368    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 462499   | 60.870    | ug/l # | 10     |

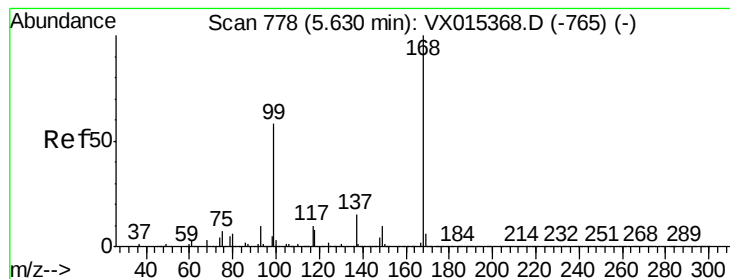
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040220\  
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Sample : L2107-02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-T2-IDW01

Quant Time: Apr 03 08:05:29 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

Instrument :

MSVOA\_X

ClientSampleId :

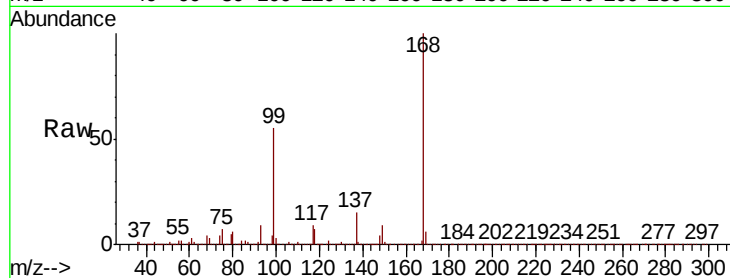
S32-T2-IDW01

Tot Ion:168 Resp: 1052367

Ion Ratio Lower Upper

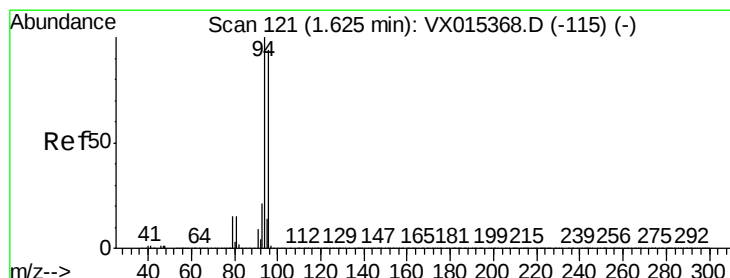
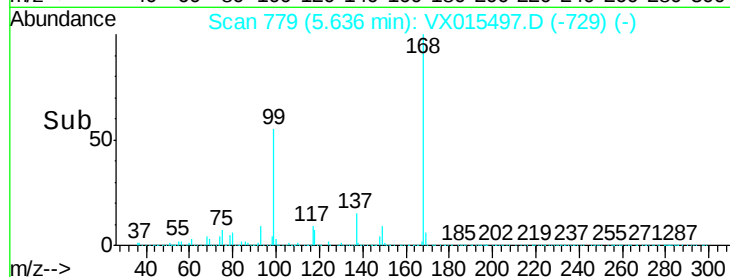
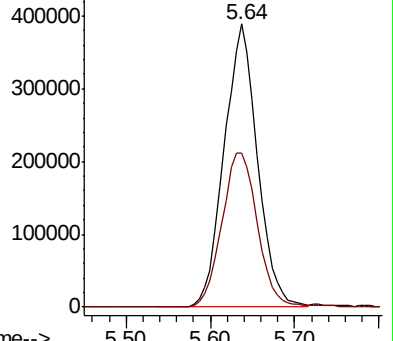
168 100

99 54.4 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX015497.D

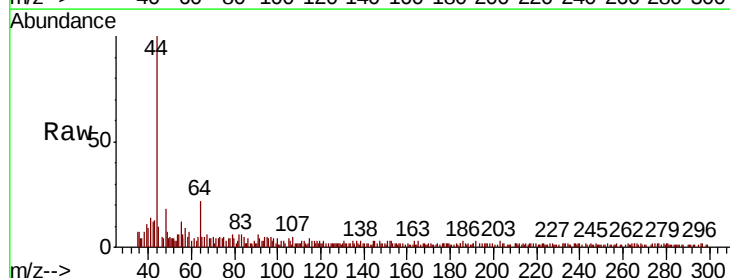
Acq: 02 Apr 2020 21:02

Tgt Ion: 94 Resp: 125

Ion Ratio Lower Upper

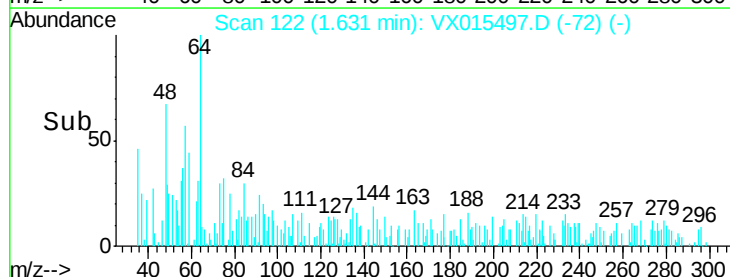
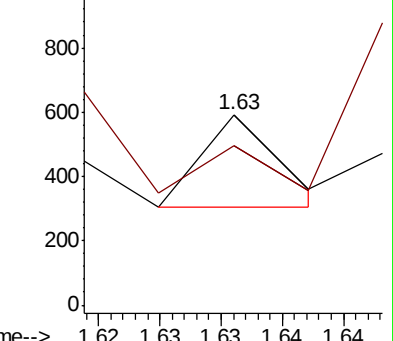
94 100

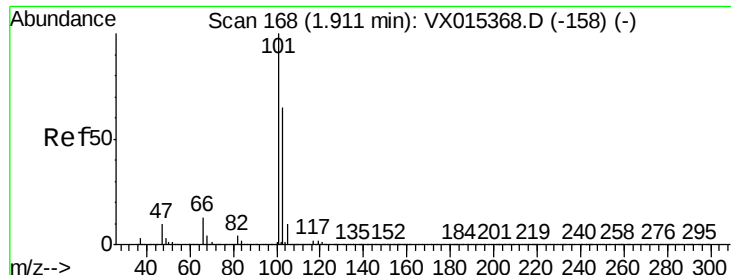
96 51.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



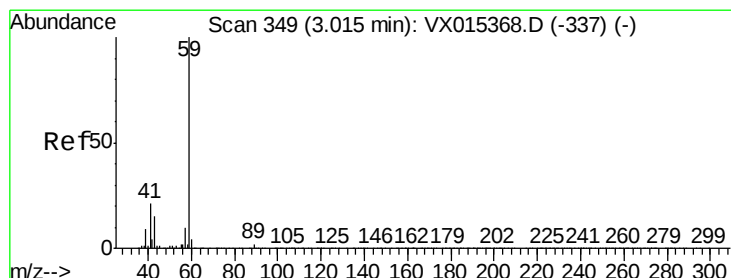
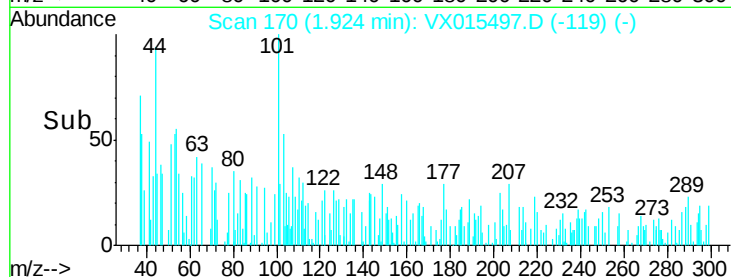
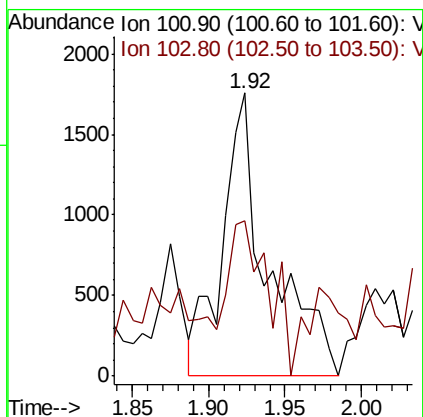
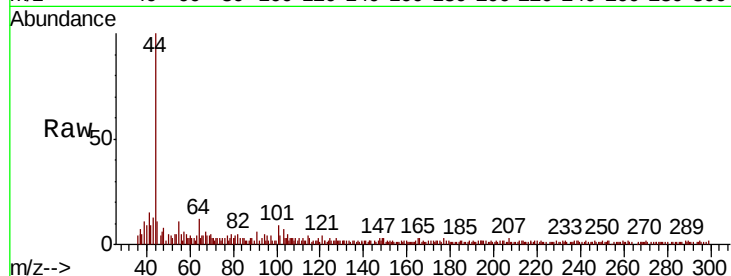


#7

Trichlorofluoromethane  
 Concen: 0.253 ug/l  
 RT: 1.92 min Scan# 170  
 Delta R.T. 0.01 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-T2-IDW01

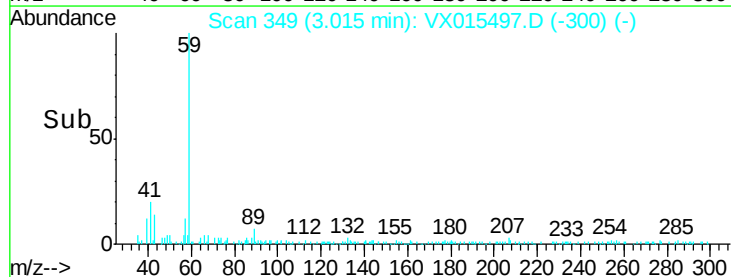
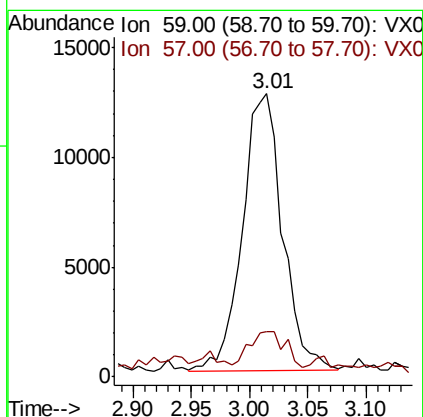
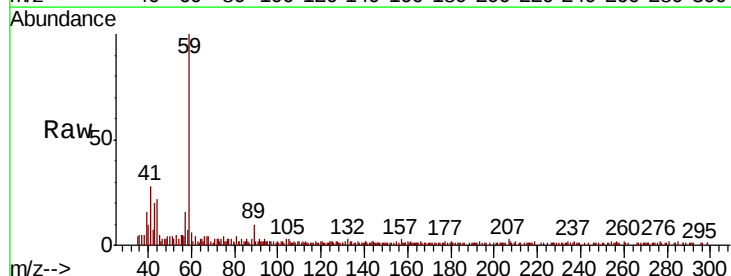
Tot Ion:101 Resp: 3680  
 Ion Ratio Lower Upper  
 101 100  
 103 35.5 52.3 78.5#

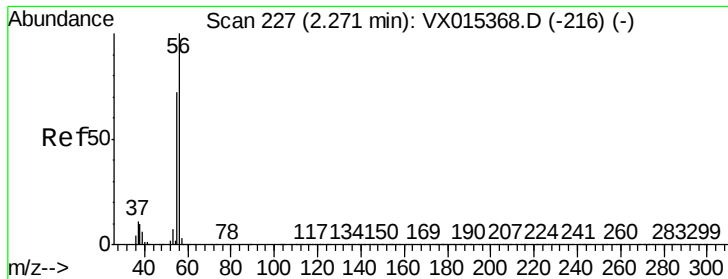


#11

Tert butyl alcohol  
 Concen: 8.547 ug/l  
 RT: 3.01 min Scan# 349  
 Delta R.T. 0.00 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

Tgt Ion: 59 Resp: 30366  
 Ion Ratio Lower Upper  
 59 100  
 57 12.1 8.1 12.1

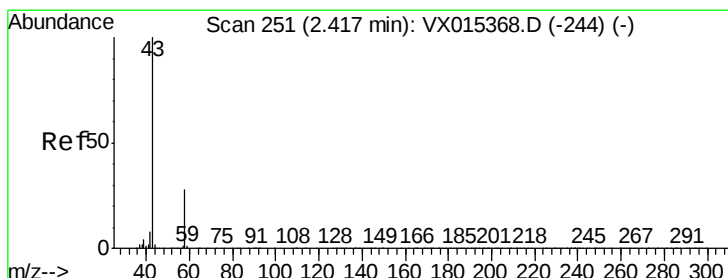
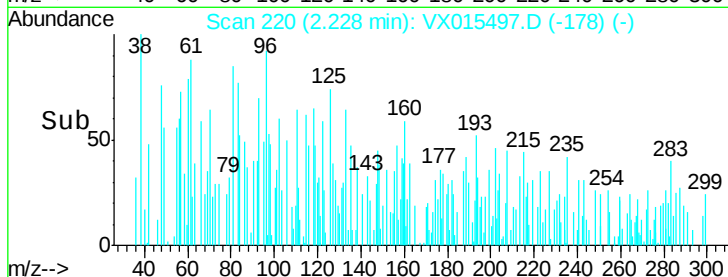
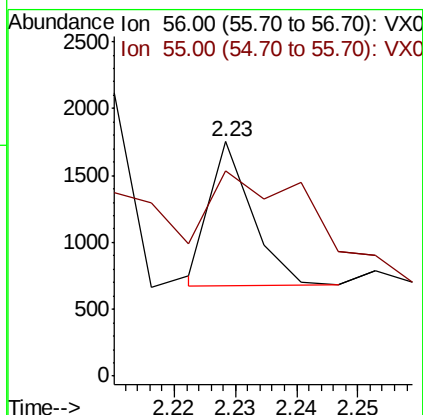
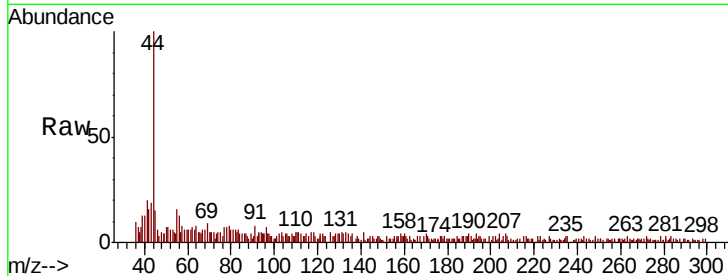




#13  
Acrolein  
Concen: 0.253 ug/l  
RT: 2.23 min Scan# 220  
Delta R.T. -0.04 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

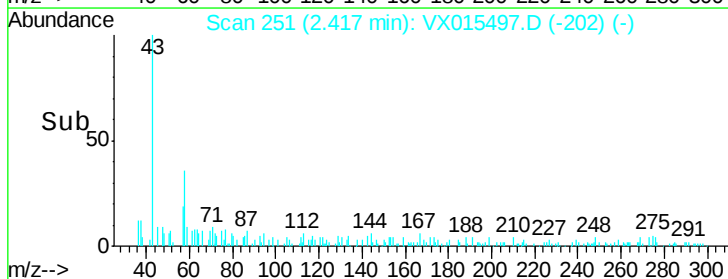
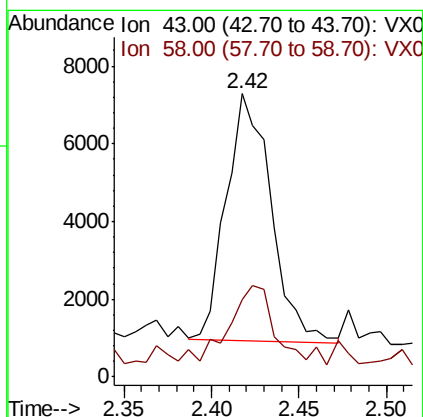
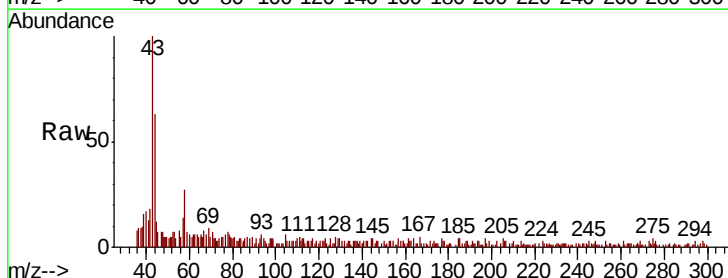
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-T2-IDW01

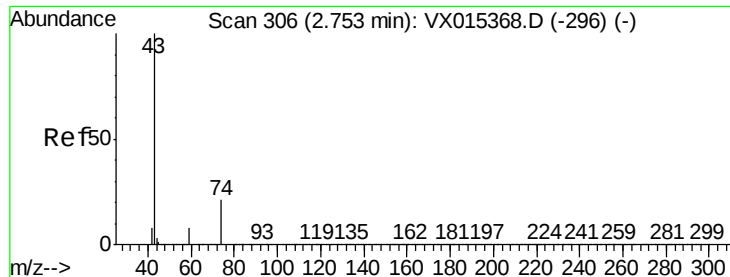
Tot Ion: 56 Resp: 511  
Ion Ratio Lower Upper  
56 100  
55 188.1 57.0 85.4#



#16  
Acetone  
Concen: 1.778 ug/l  
RT: 2.42 min Scan# 251  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

Tgt Ion: 43 Resp: 11337  
Ion Ratio Lower Upper  
43 100  
58 20.6 22.1 33.1#

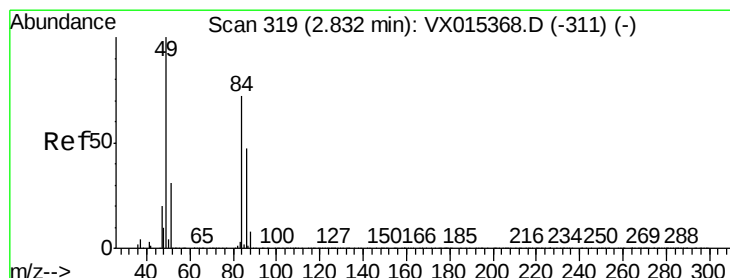
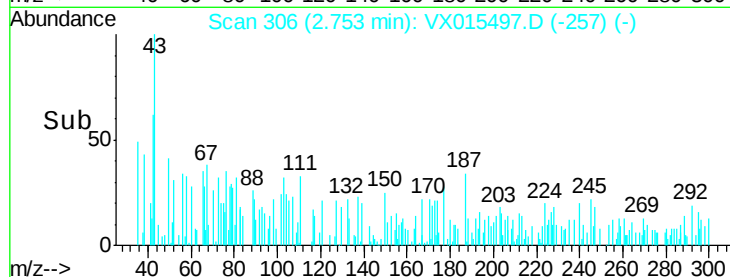
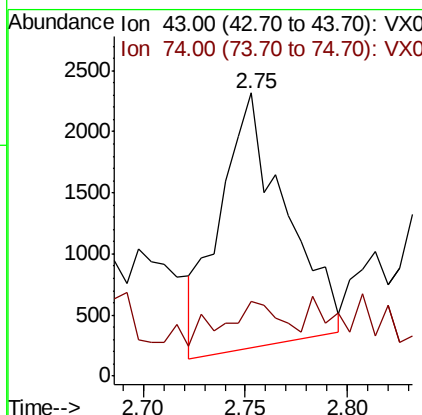
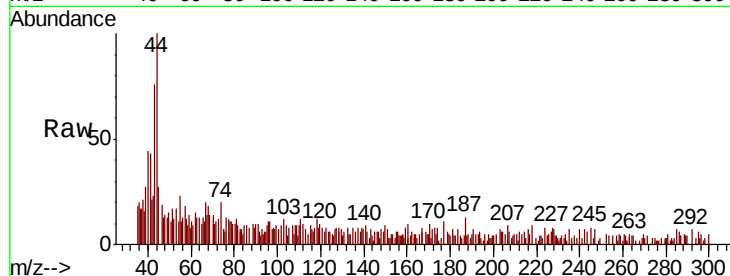




#18  
Methyl Acetate  
Concen: 0.285 ug/l  
RT: 2.75 min Scan# 306  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

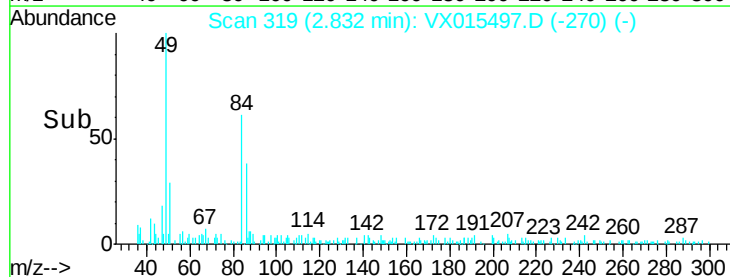
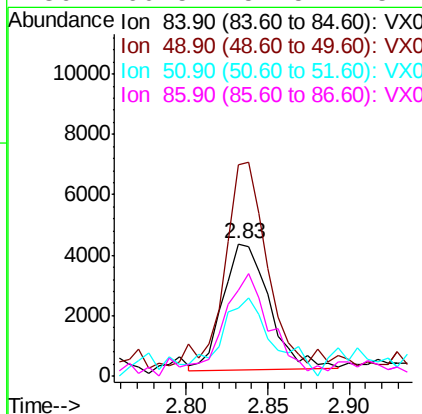
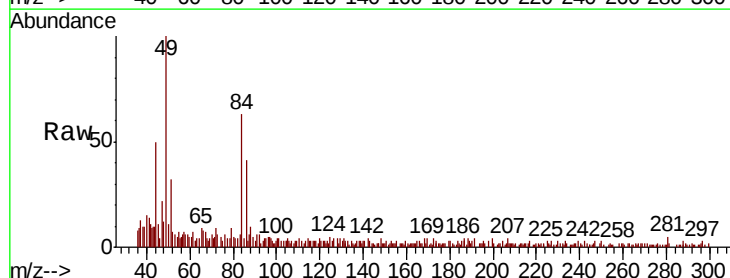
Instrument :  
MSVOA\_X  
ClientSampled :  
S32-T2-IDW01

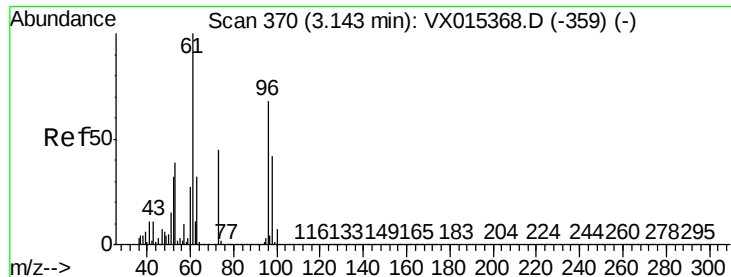
Tot Ion: 43 Resp: 4635  
Ion Ratio Lower Upper  
43 100  
74 14.5 16.5 24.7#



#20  
Methylene Chloride  
Concen: 0.695 ug/l  
RT: 2.83 min Scan# 319  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

Tgt Ion: 84 Resp: 8278  
Ion Ratio Lower Upper  
84 100  
49 155.4 111.3 166.9  
51 46.1 34.0 51.0  
86 60.5 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.244 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

Instrument :

MSVOA\_X

ClientSampleId :

S32-T2-IDW01

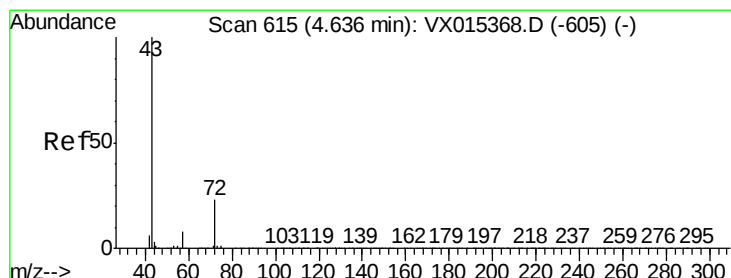
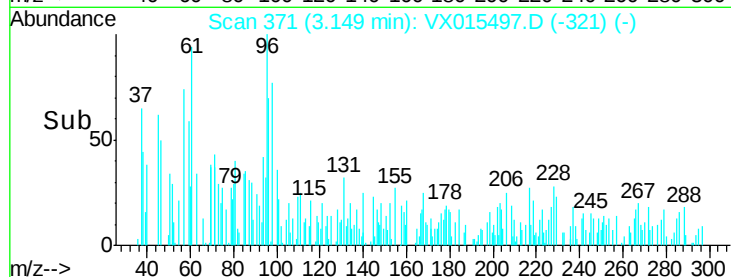
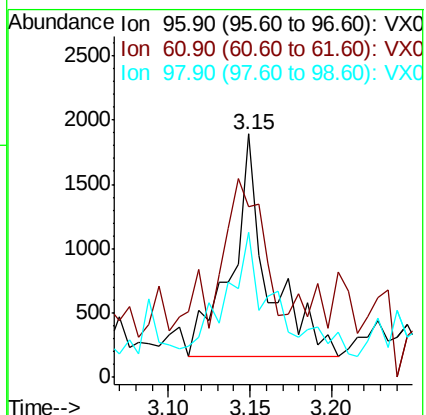
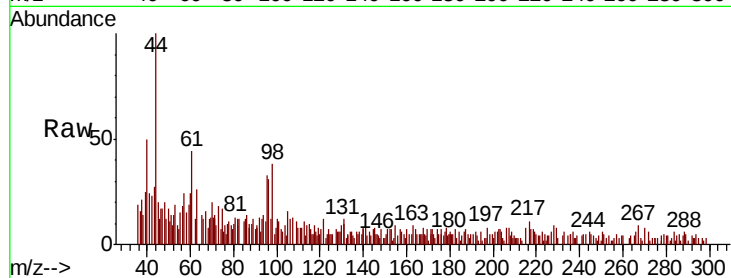
Tot Ion: 96 Resp: 2685

Ion Ratio Lower Upper

96 100

61 47.1 116.9 175.3#

98 51.6 48.6 73.0



#25

2-Butanone

Concen: 0.316 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.02 min

Lab File: VX015497.D

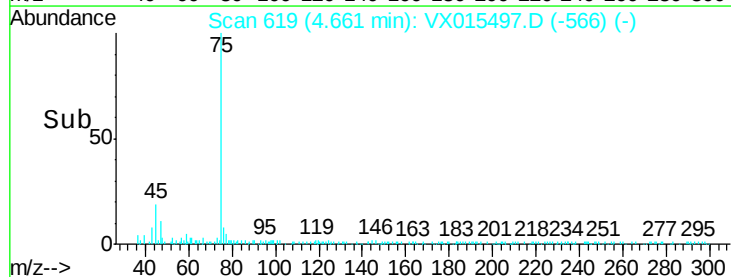
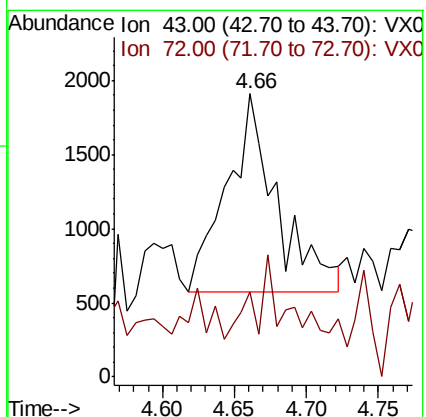
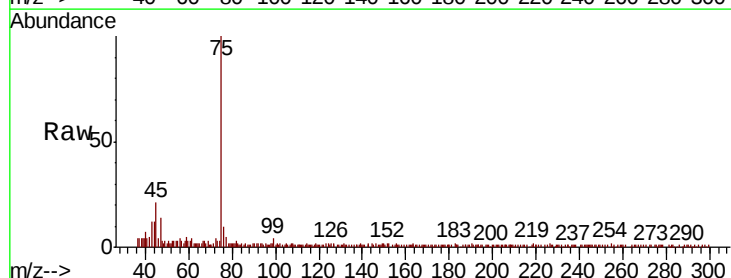
Acq: 02 Apr 2020 21:02

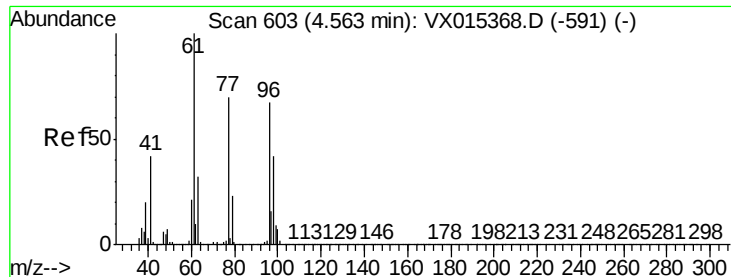
Tgt Ion: 43 Resp: 3239

Ion Ratio Lower Upper

43 100

72 15.2 19.0 28.4#



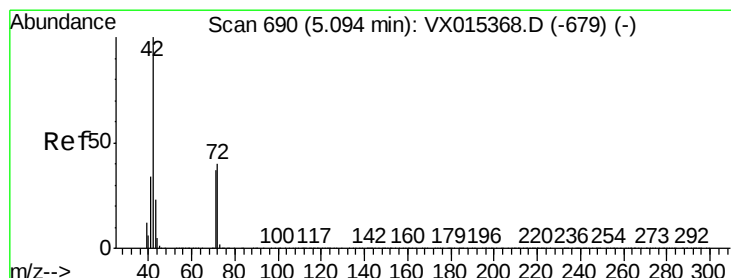
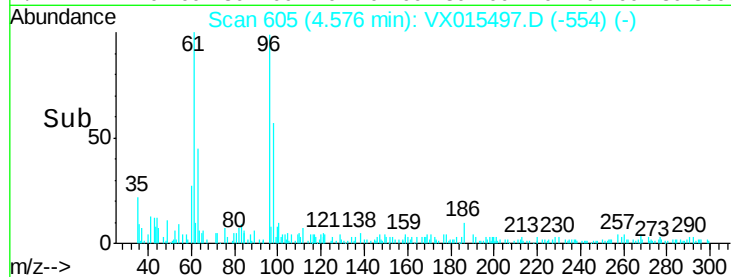
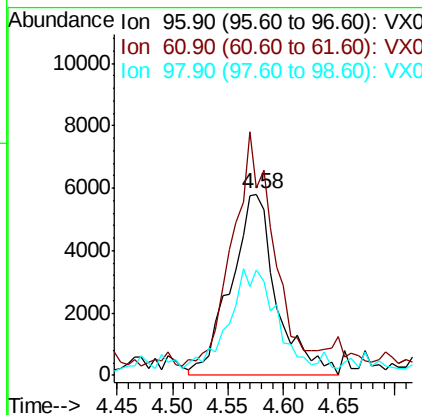
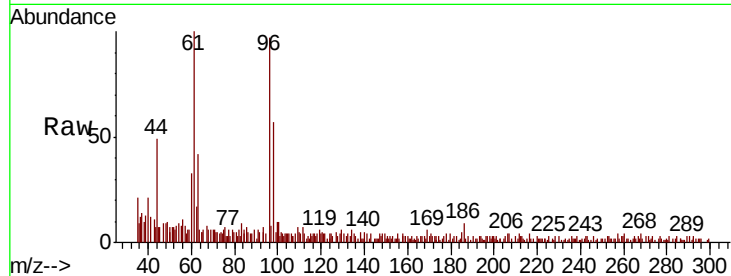


#27

cis-1,2-Dichloroethene  
 Concen: 1.290 ug/l  
 RT: 4.58 min Scan# 605  
 Delta R.T. 0.01 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-T2-IDW01

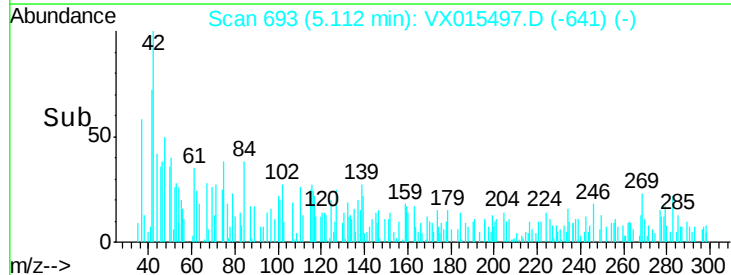
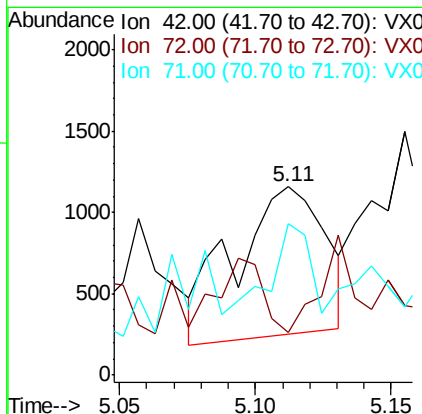
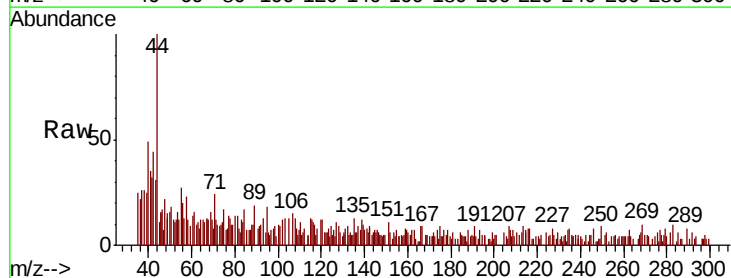
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 124.4 | 0.0   | 308.4 |
| 98      | 54.8  | 0.0   | 129.2 |

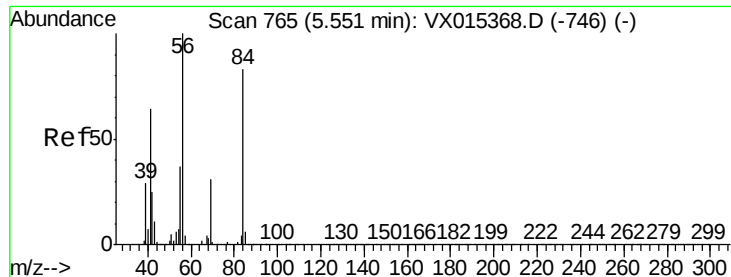


#29

Tetrahydrofuran  
 Concen: 0.321 ug/l  
 RT: 5.11 min Scan# 693  
 Delta R.T. 0.02 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 23.9  | 31.7  | 47.5# |
| 71      | 32.1  | 29.6  | 44.4  |

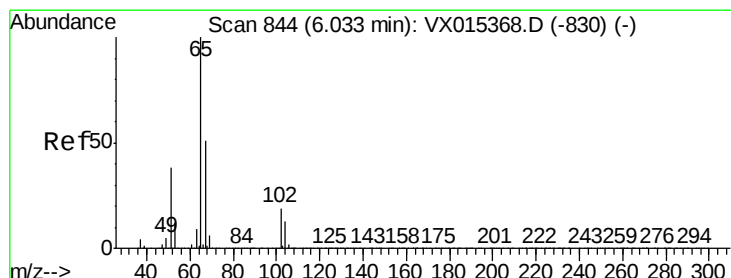
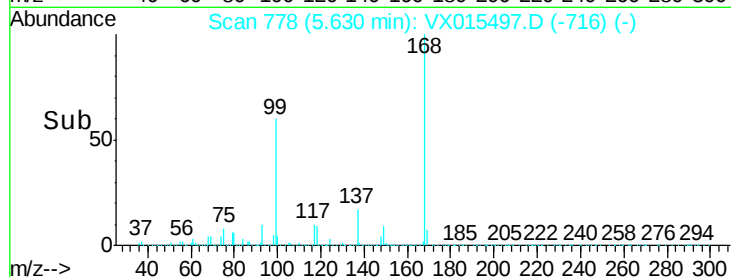
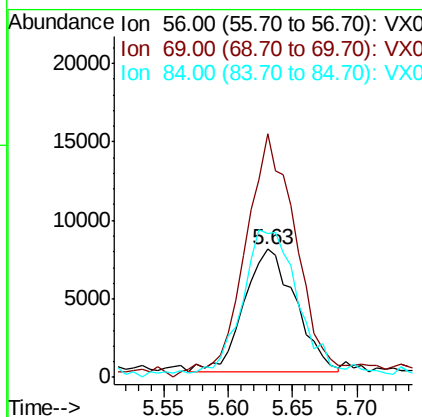
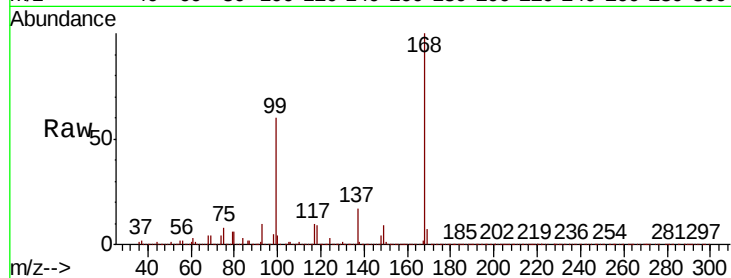




#31  
Cyclohexane  
Concen: 1.145 ug/l  
RT: 5.63 min Scan# 778  
Delta R.T. 0.08 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

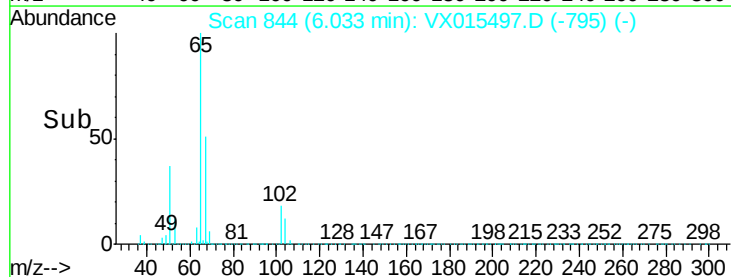
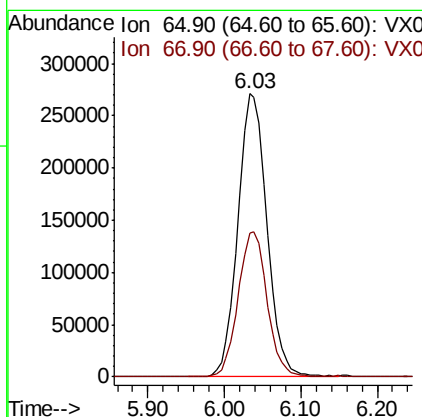
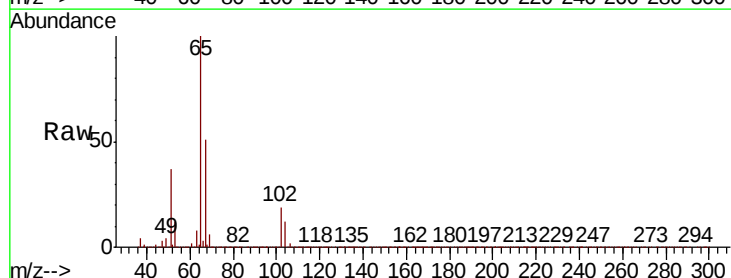
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-T2-IDW01

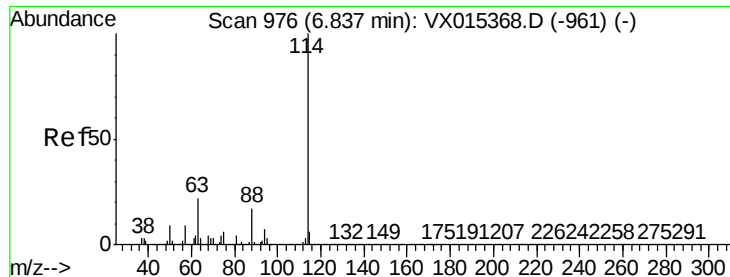
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 193.5 | 24.6  | 36.8# |
| 84      | 114.1 | 66.1  | 99.1# |



#33  
1,2-Dichloroethane-d4  
Concen: 47.923 ug/l  
RT: 6.03 min Scan# 844  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 50.9  | 0.0   | 102.6 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

Instrument :

MSVOA\_X

ClientSampleId :

S32-T2-IDW01

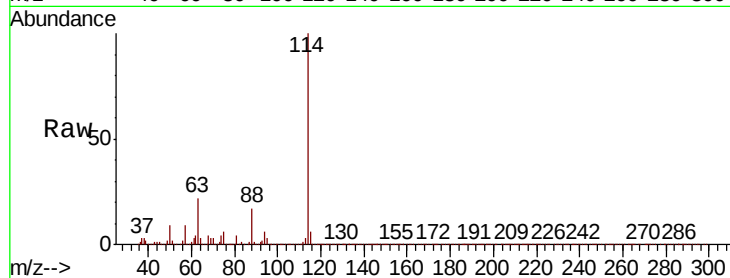
Tot Ion:114 Resp: 1700543

Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.2

88 16.9 0.0 33.8

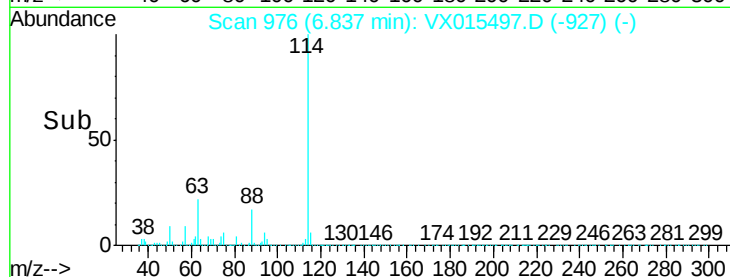


Abundance Ion 113.90 (113.60 to 114.60): V

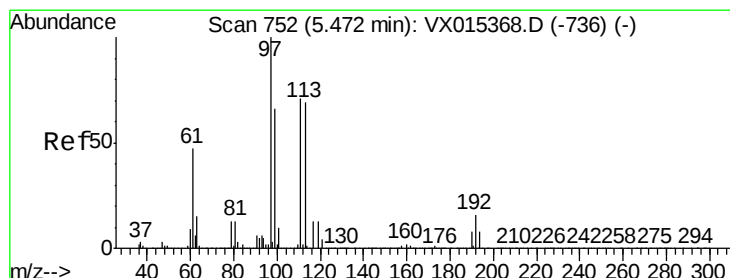
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 49.877 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

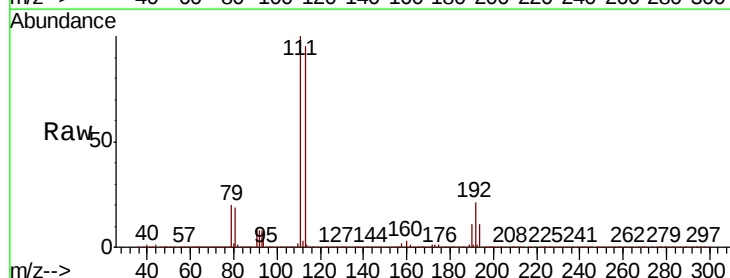
Tgt Ion:113 Resp: 542181

Ion Ratio Lower Upper

113 100

111 102.2 81.5 122.3

192 22.1 17.8 26.6

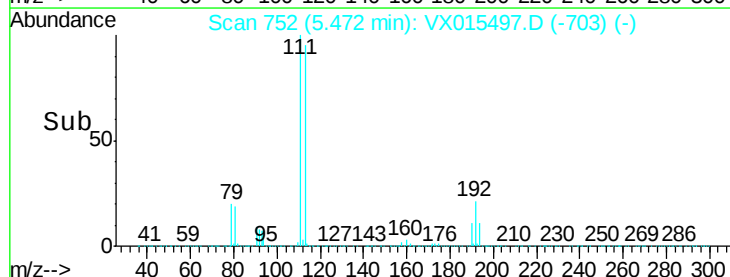


Abundance Ion 112.80 (112.50 to 113.50): V

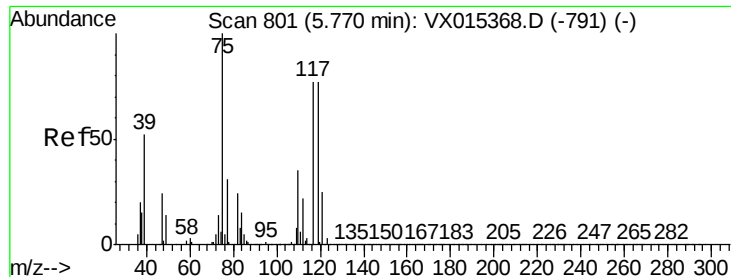
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

Time-->



Time-->



#36

1,1-Dichloropropene

Concen: 4.992 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

Instrument :

MSVOA\_X

ClientSampleId :

S32-T2-IDW01

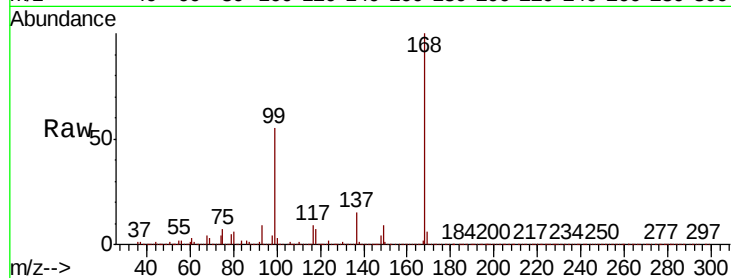
Tot Ion: 75 Resp: 78212

Ion Ratio Lower Upper

75 100

110 10.7 17.1 51.3#

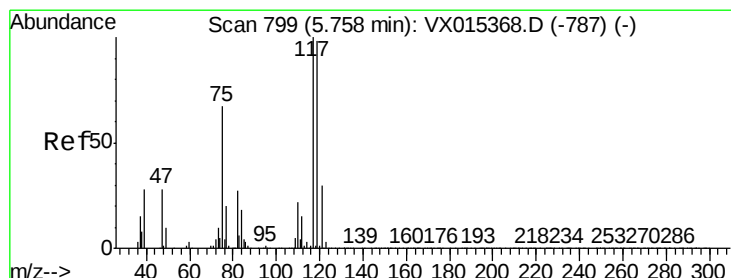
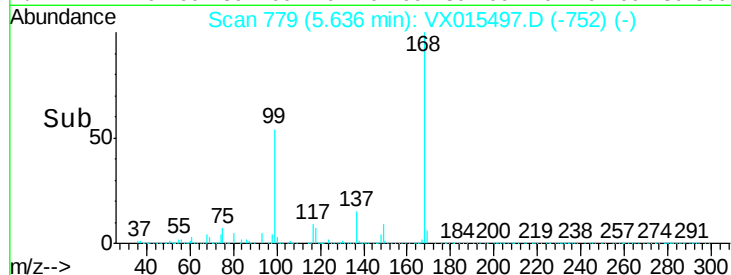
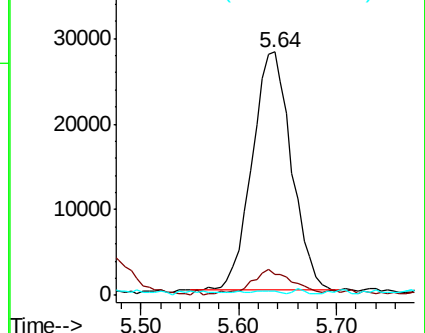
77 0.9 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.970 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.12 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

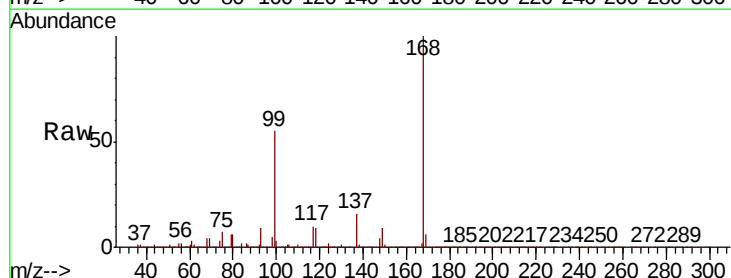
Tgt Ion: 117 Resp: 101321

Ion Ratio Lower Upper

117 100

119 3.7 78.0 117.0#

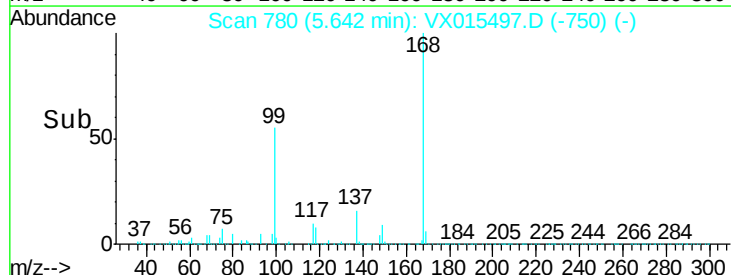
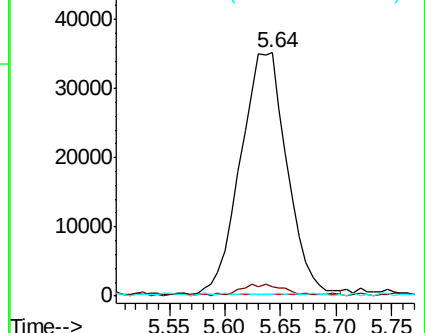
121 0.2 23.8 35.8#

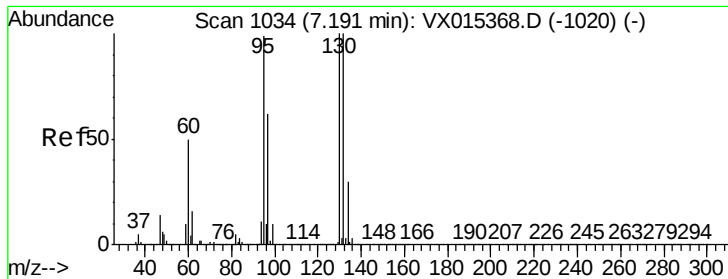


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

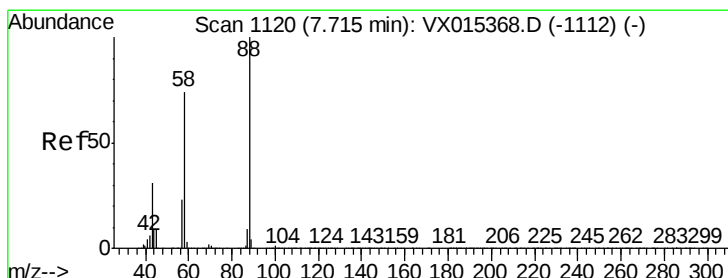
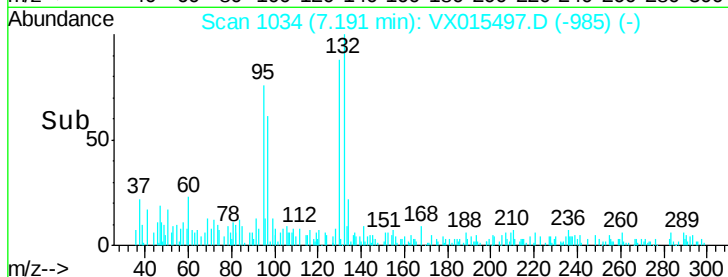
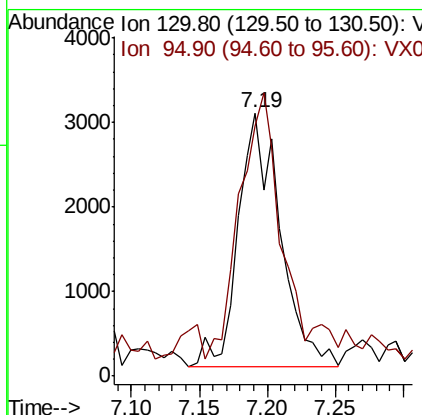
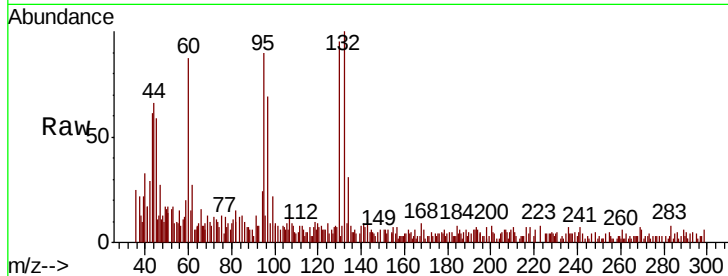




#44  
 Trichloroethene  
 Concen: 0.520 ug/l  
 RT: 7.19 min Scan# 1034  
 Delta R.T. 0.00 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

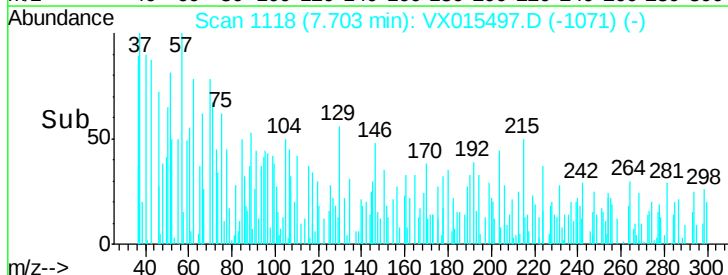
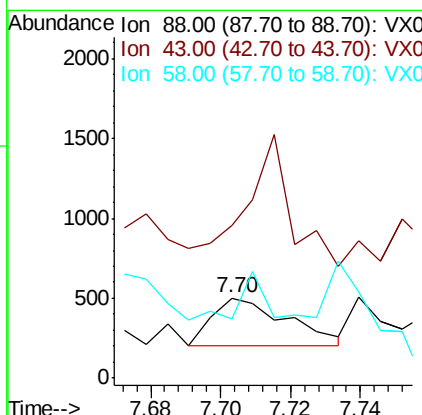
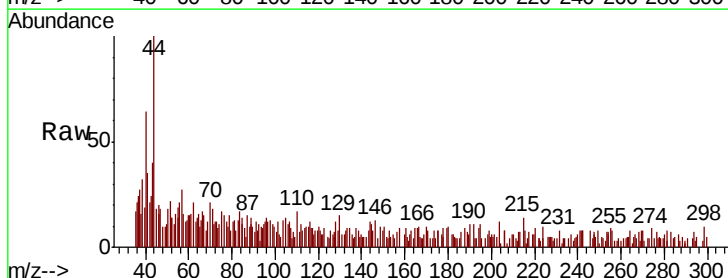
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-T2-IDW01

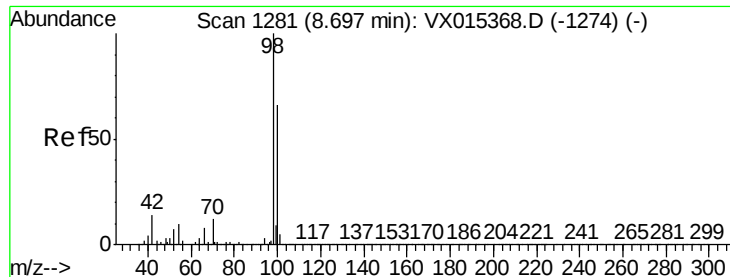
Tot Ion:130 Resp: 6505  
 Ion Ratio Lower Upper  
 130 100  
 95 87.2 0.0 199.0



#49  
 1,4-Dioxane  
 Concen: 1.365 ug/l  
 RT: 7.70 min Scan# 1118  
 Delta R.T. -0.01 min  
 Lab File: VX015497.D  
 Acq: 02 Apr 2020 21:02

Tgt Ion: 88 Resp: 438  
 Ion Ratio Lower Upper  
 88 100  
 43 181.3 30.1 45.1#  
 58 29.7 60.6 90.8#

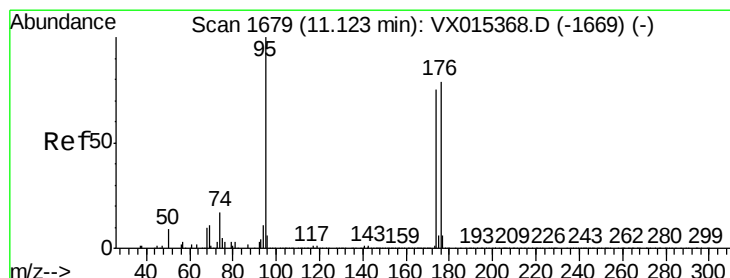
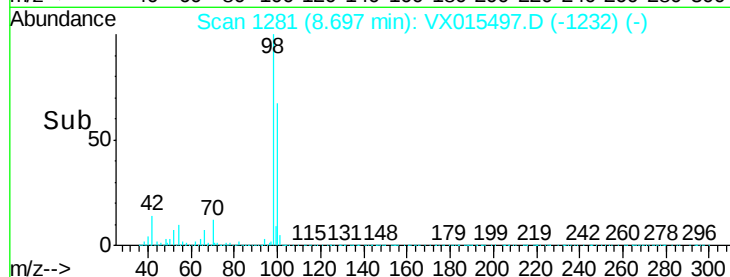
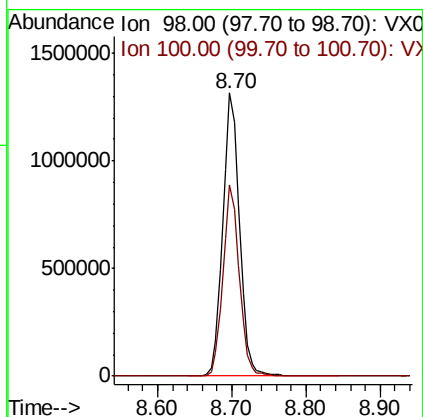
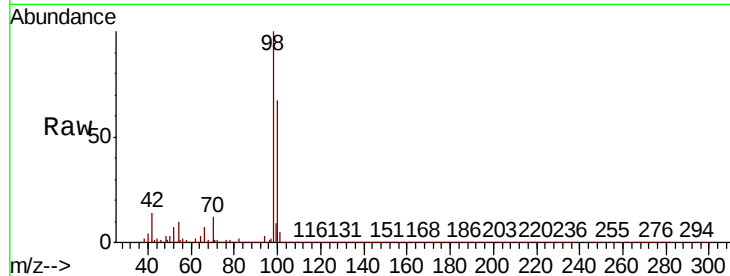




#50  
Toluene-d8  
Concen: 51.490 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

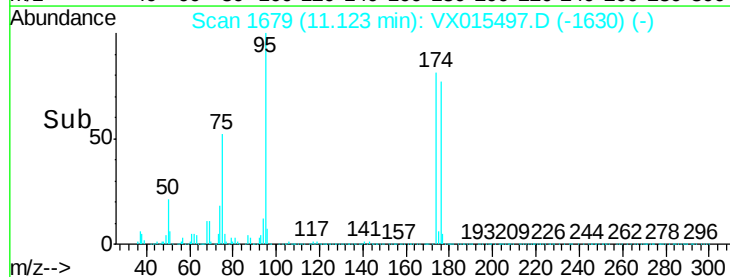
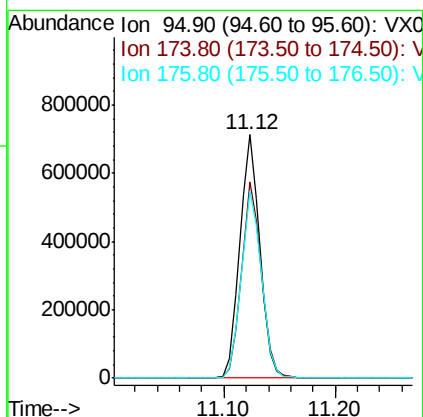
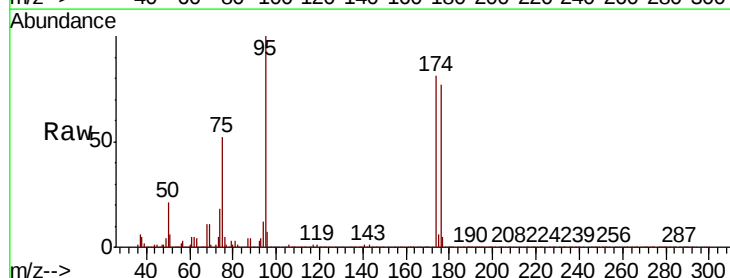
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-T2-IDW01

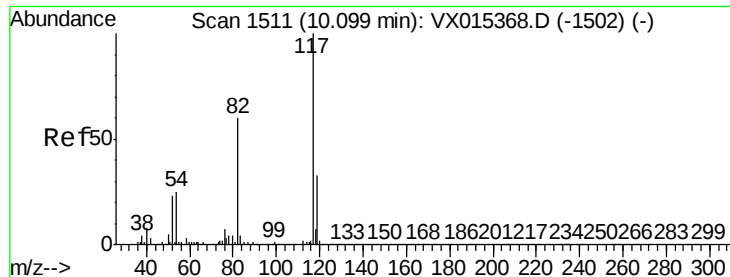
Tot Ion: 98 Resp: 2060722  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.5 80.3



#62  
4-Bromofluorobenzene  
Concen: 54.575 ug/l  
RT: 11.12 min Scan# 1679  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

Tgt Ion: 95 Resp: 887659  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 158.6  
176 78.0 0.0 159.0

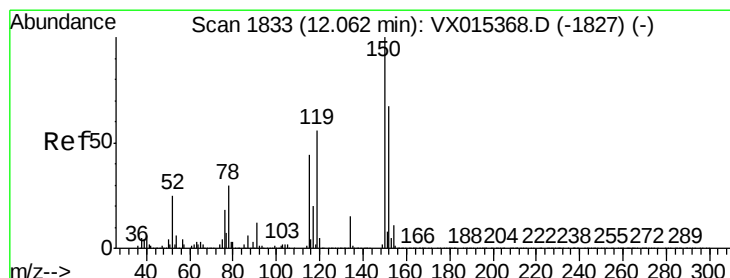
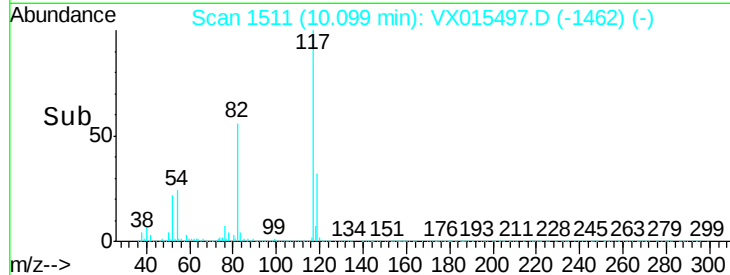
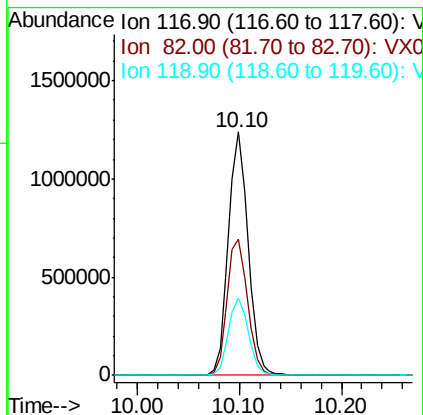
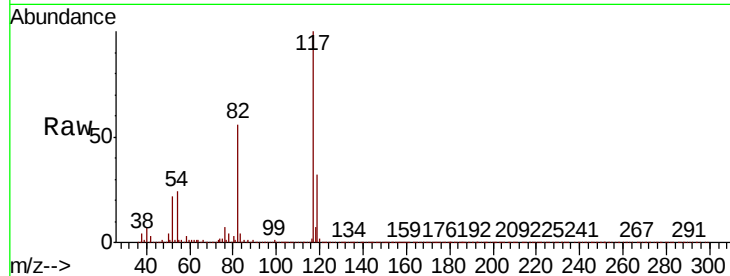




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

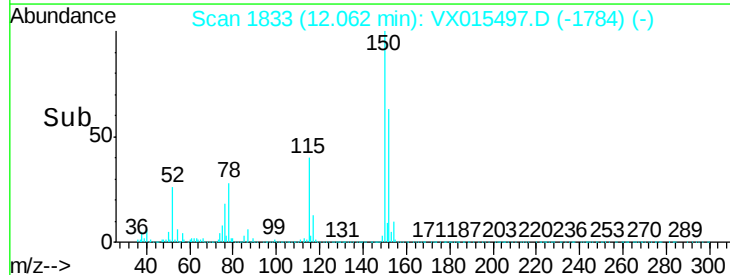
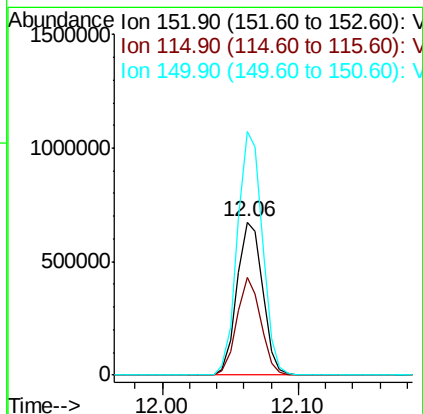
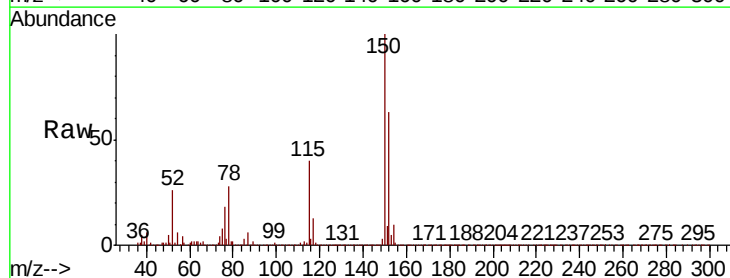
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-T2-IDW01

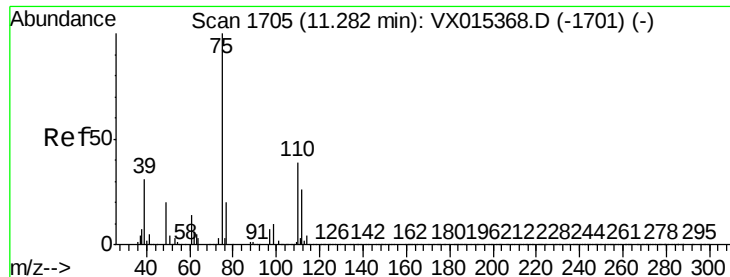
Tot Ion:117 Resp: 1661925  
Ion Ratio Lower Upper  
117 100  
82 56.1 47.8 71.8  
119 32.0 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. 0.00 min  
Lab File: VX015497.D  
Acq: 02 Apr 2020 21:02

Tgt Ion:152 Resp: 886564  
Ion Ratio Lower Upper  
152 100  
115 59.4 39.0 116.9  
150 154.8 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 25.368 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

Instrument :

MSVOA\_X

ClientSampleId :

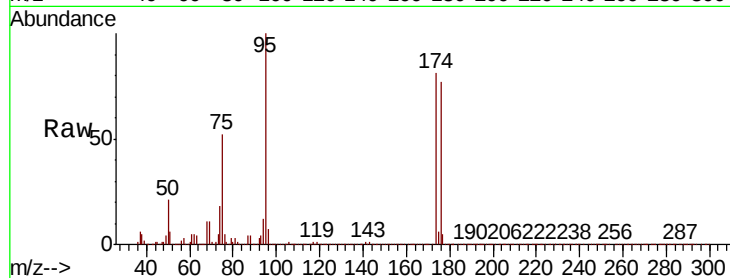
S32-T2-IDW01

Tot Ion: 75 Resp: 462499

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

400000

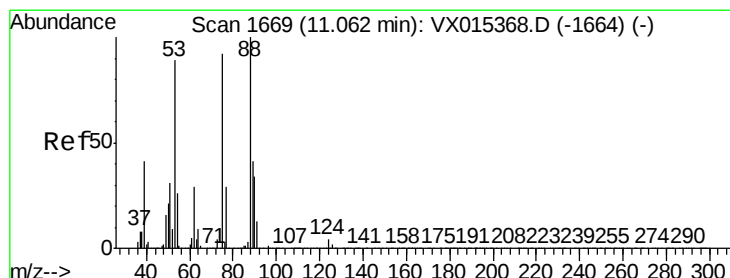
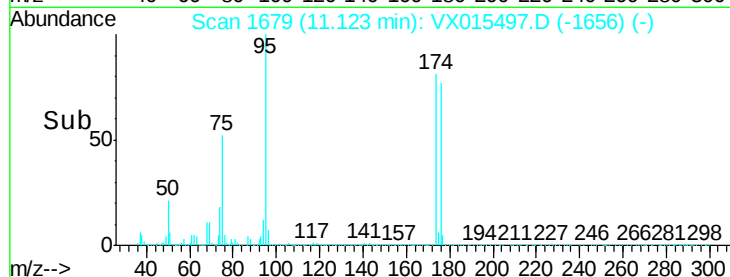
300000

200000

100000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 60.870 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015497.D

Acq: 02 Apr 2020 21:02

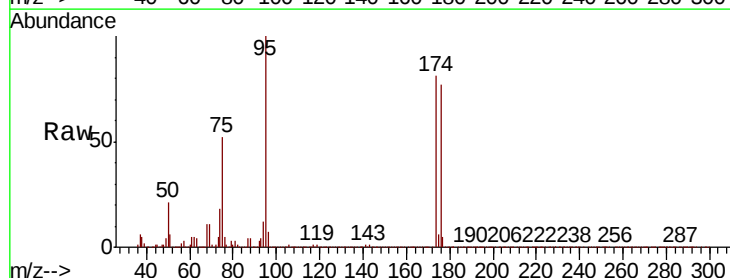
Tgt Ion: 75 Resp: 462499

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.1 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.12

500000

400000

300000

200000

100000

0

Time--> 11.05 11.10 11.15 11.20

