

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\  
 Data File : VX013391.D  
 Acq On : 12 Nov 2019 17:38  
 Operator : JC/SP  
 Sample : K5802-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-TB-2019-8

Quant Time: Nov 13 02:42:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 781696   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1232053  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1095270  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 507199   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 445972   | 48.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.32%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 368457   | 47.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.36%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1465510  | 50.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.62% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 498705   | 47.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.86%  |          |

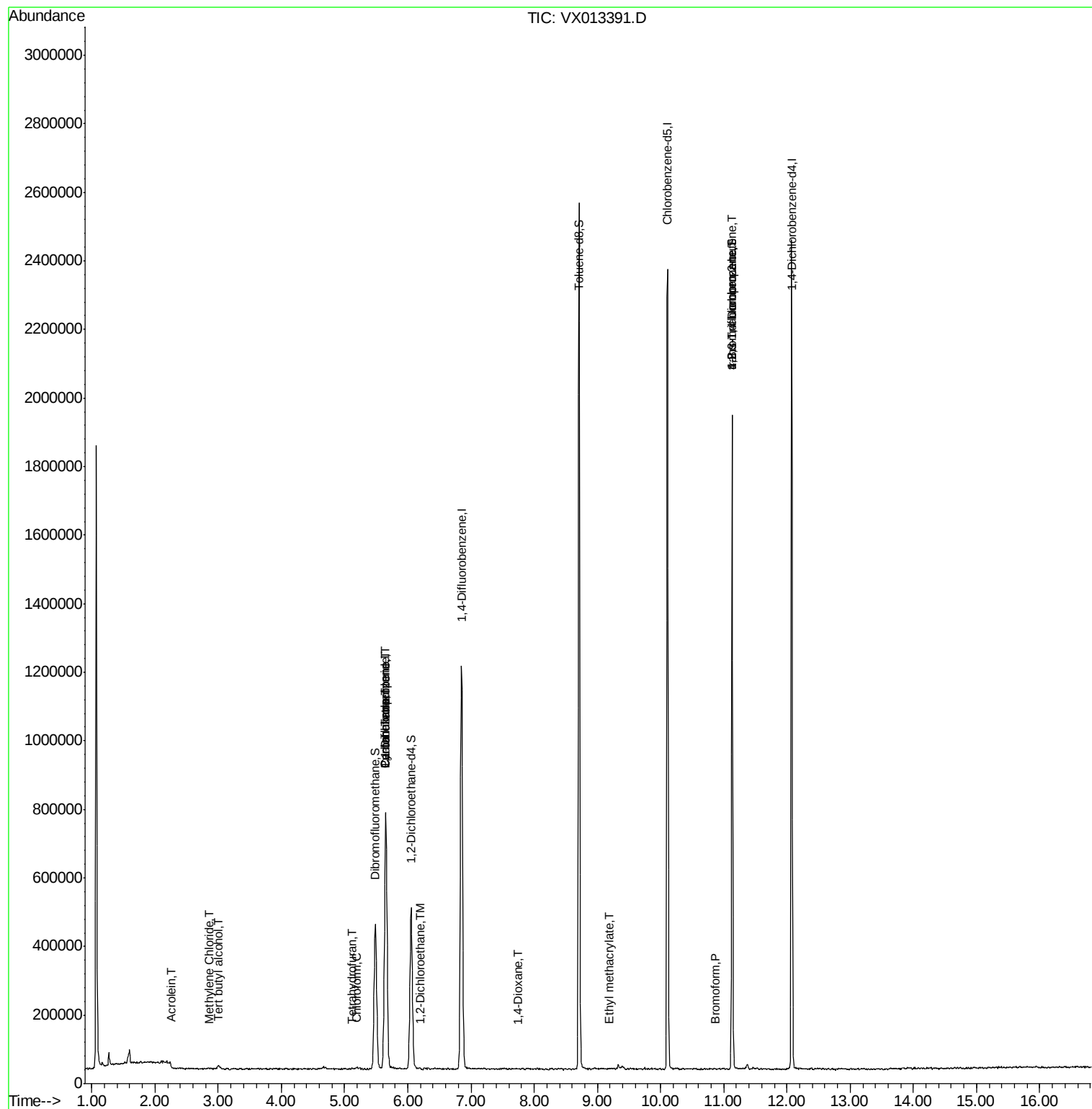
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.69  | 64   | 443      | Below Cal |        | 92     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 7998     | 3.277     | ug/l # | 91     |
| 13) Acrolein                   | 2.26  | 56   | 720      | 0.544     | ug/l # | 14     |
| 20) Methylene Chloride         | 2.84  | 84   | 2216     | 0.260     | ug/l # | 50     |
| 29) Tetrahydrofuran            | 5.13  | 42   | 1049     | 0.251     | ug/l # | 53     |
| 30) Chloroform                 | 5.20  | 83   | 5895     | 0.424     | ug/l   | 86     |
| 31) Cyclohexane                | 5.65  | 56   | 15887    | 1.255     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 51601    | 4.882     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 68170    | 6.596     | ug/l # | 16     |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 2399     | 0.202     | ug/l   | 86     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 309      | 1.329     | ug/l # | 1      |
| 56) Ethyl methacrylate         | 9.18  | 69   | 320      | 1.584     | ug/l # | 1      |
| 71) Bromoform                  | 10.87 | 173  | 284      | 3.238     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 245756   | 23.855    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 245756   | 61.403    | ug/l # | 9      |

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

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Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

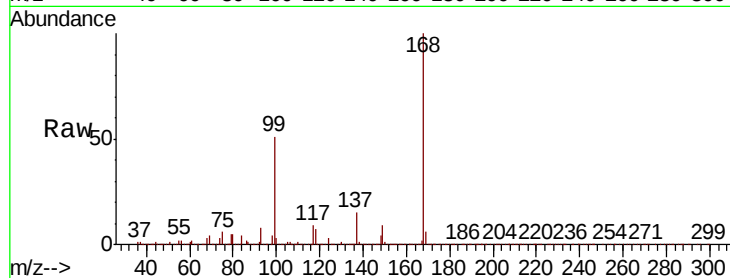
S32-TB-2019-8

Tot Ion:168 Resp: 781696

Ion Ratio Lower Upper

168 100

99 50.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

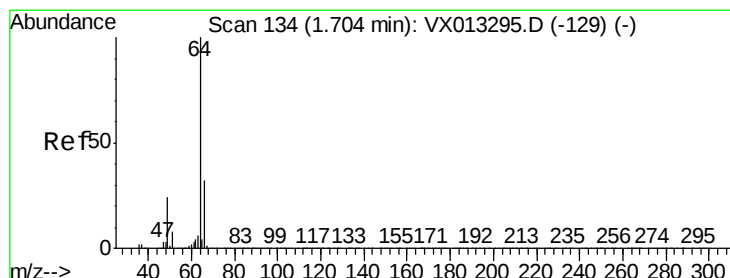
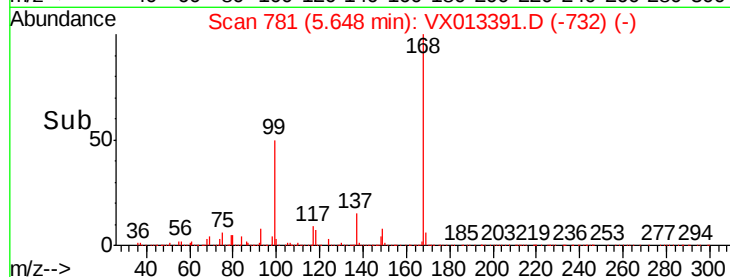
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013391.D

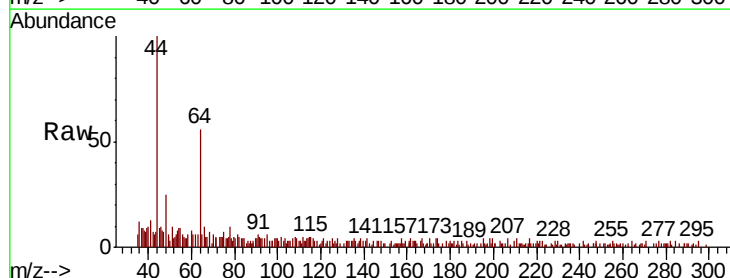
Acq: 12 Nov 2019 17:38

Tgt Ion: 64 Resp: 443

Ion Ratio Lower Upper

64 100

66 36.7 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

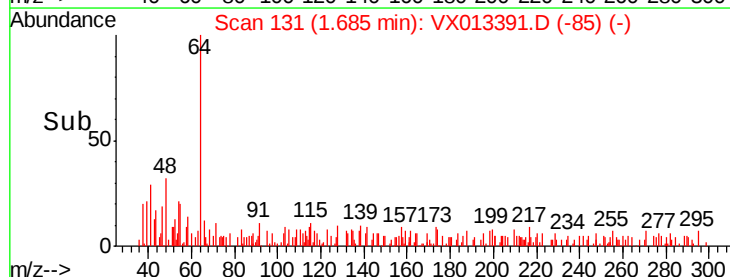
3000

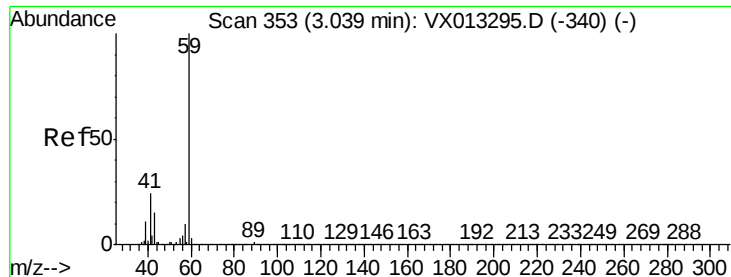
2000

1000

0

Time-->



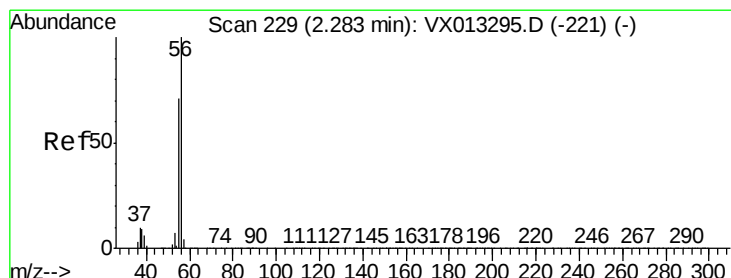
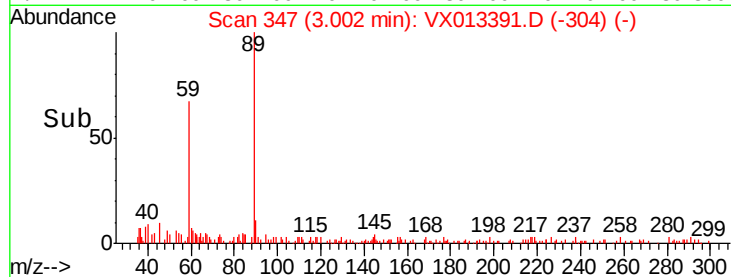
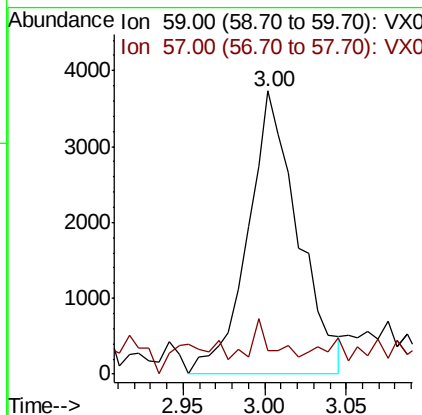
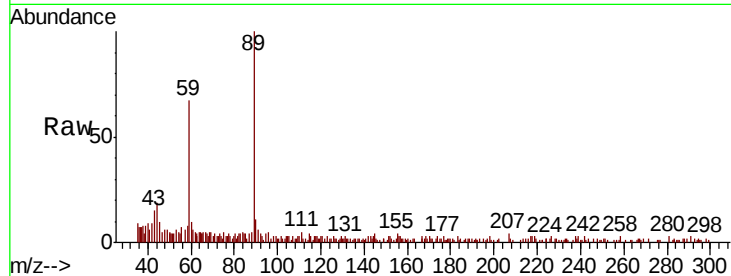


#11

Tert butyl alcohol  
 Concen: 3.277 ug/l  
 RT: 3.00 min Scan# 347  
 Delta R.T. -0.04 min  
 Lab File: VX013391.D  
 Acq: 12 Nov 2019 17:38

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-TB-2019-8

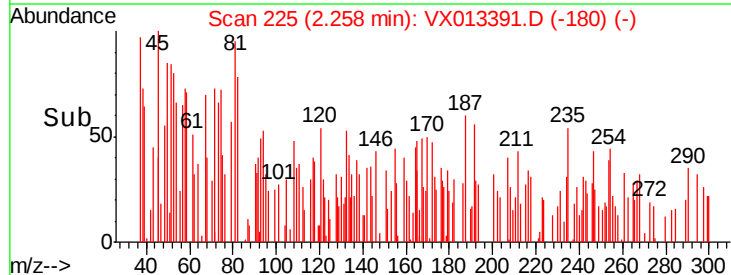
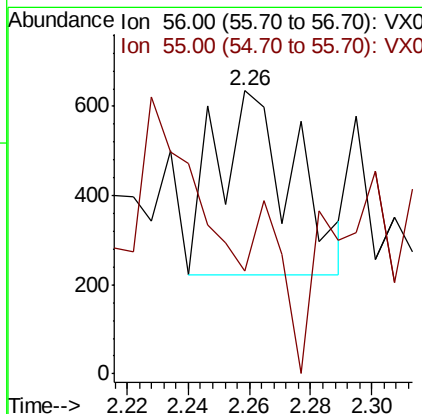
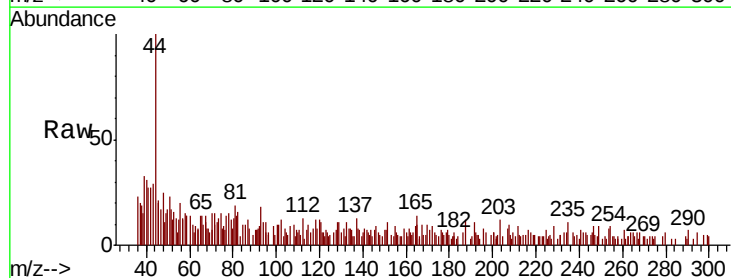
Tot Ion: 59 Resp: 7998  
 Ion Ratio Lower Upper  
 59 100  
 57 6.8 8.0 12.0#

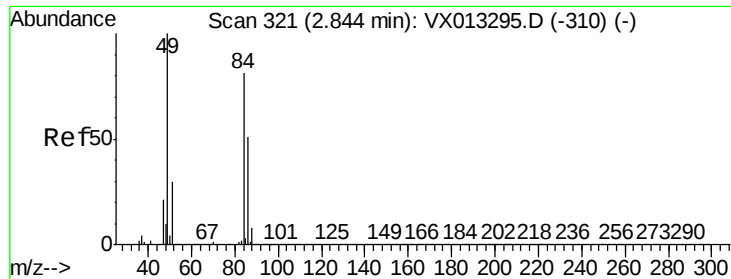


#13

Acrolein  
 Concen: 0.544 ug/l  
 RT: 2.26 min Scan# 225  
 Delta R.T. -0.02 min  
 Lab File: VX013391.D  
 Acq: 12 Nov 2019 17:38

Tgt Ion: 56 Resp: 720  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 57.4 86.0#

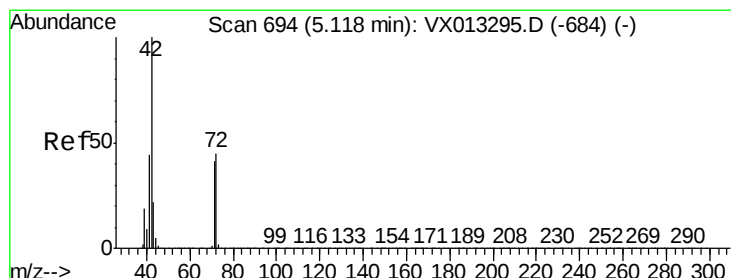
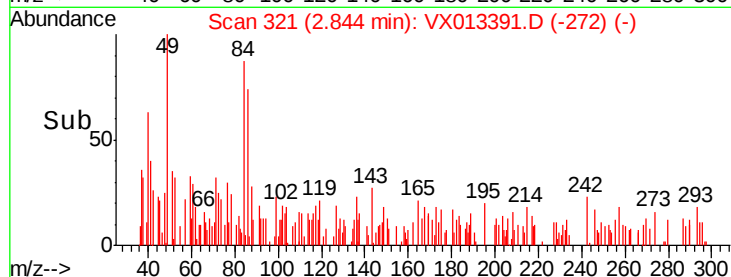
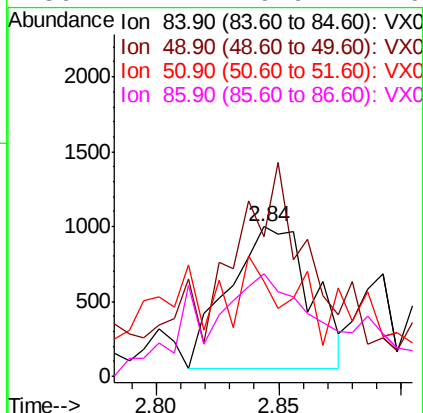
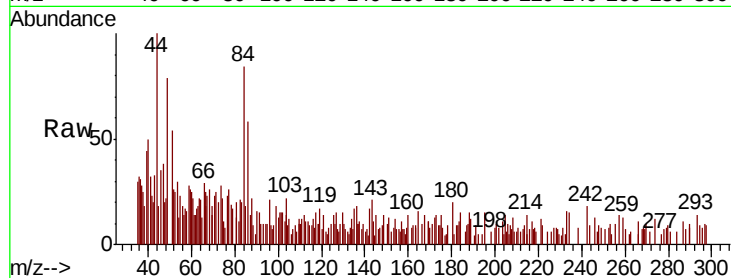




#20  
Methvlene Chloride  
Concen: 0.260 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

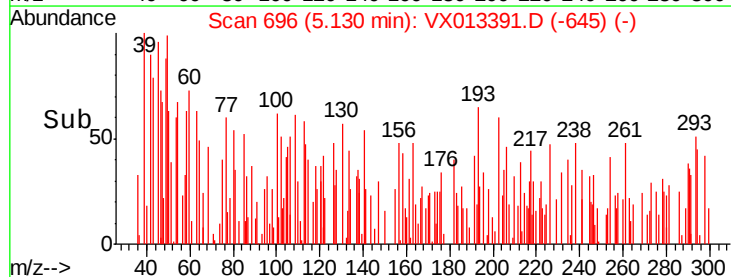
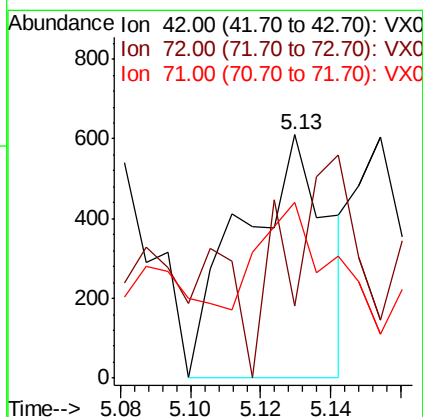
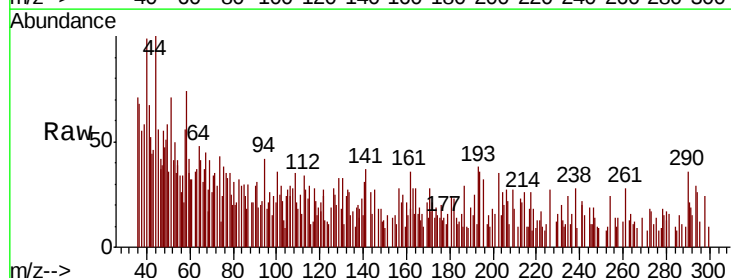
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-TB-2019-8

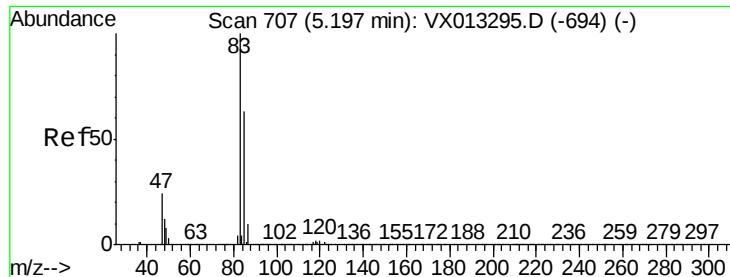
Tot Ion: 84 Resp: 2216  
Ion Ratio Lower Upper  
84 100  
49 54.6 98.2 147.4#  
51 4.9 29.9 44.9#  
86 41.2 49.9 74.9#



#29  
Tetrahydrofuran  
Concen: 0.251 ug/l  
RT: 5.13 min Scan# 696  
Delta R.T. 0.01 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

Tgt Ion: 42 Resp: 1049  
Ion Ratio Lower Upper  
42 100  
72 74.6 35.8 53.8#  
71 71.9 33.4 50.0#





#30

Chloroform

Concen: 0.424 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

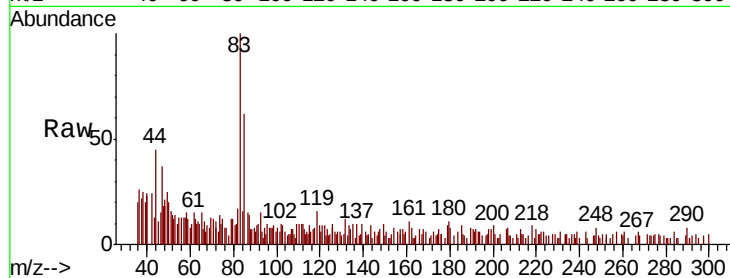
S32-TB-2019-8

Tot Ion: 83 Resp: 5895

Ion Ratio Lower Upper

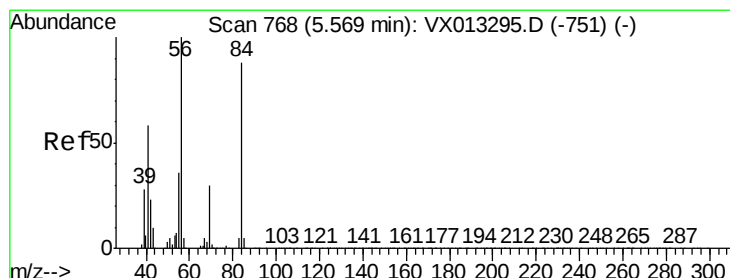
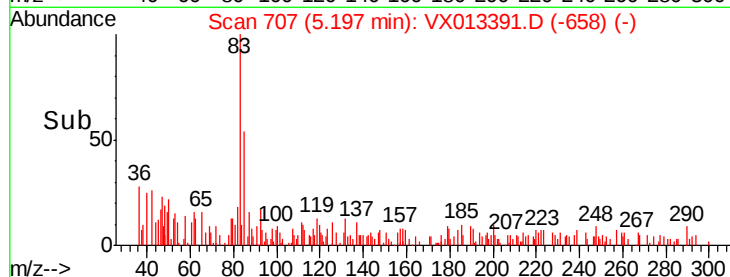
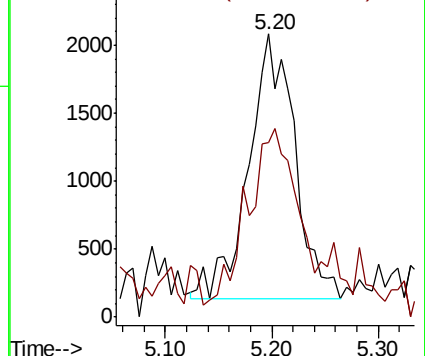
83 100

85 51.6 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#31

Cyclohexane

Concen: 1.255 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

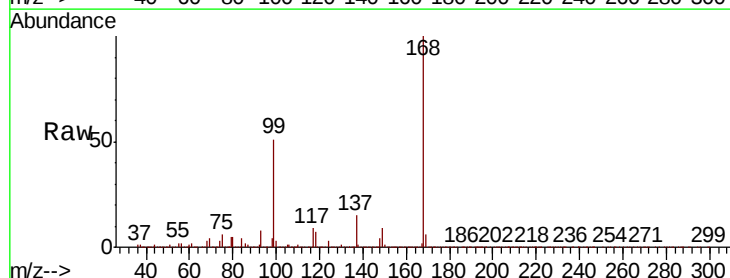
Tgt Ion: 56 Resp: 15887

Ion Ratio Lower Upper

56 100

69 171.8 23.7 35.5#

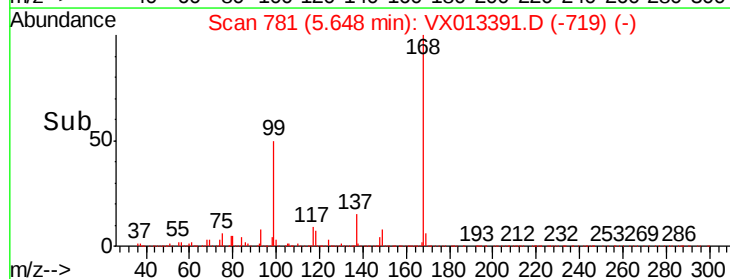
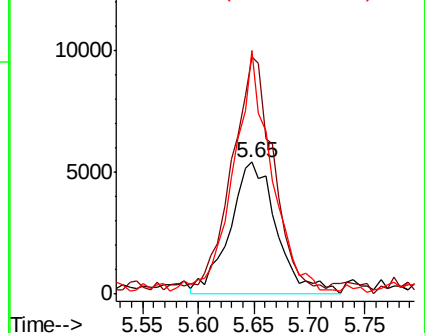
84 181.6 70.6 105.8#

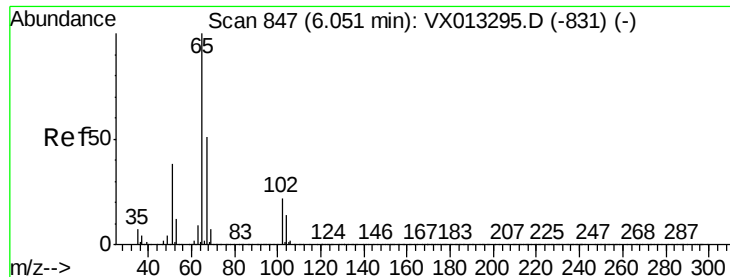


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.157 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

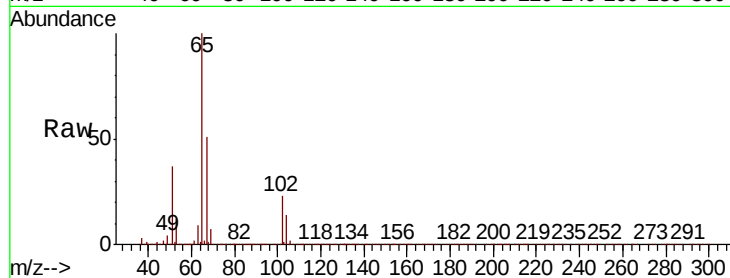
S32-TB-2019-8

Tot Ion: 65 Resp: 445972

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

200000

150000

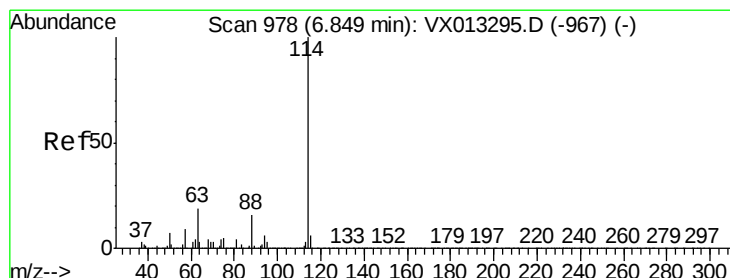
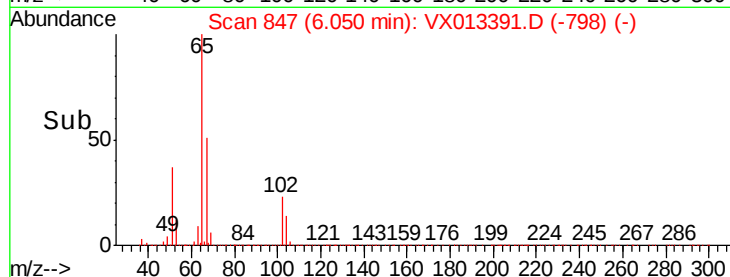
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

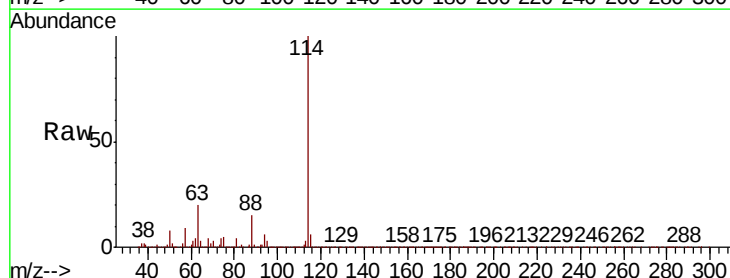
Tgt Ion: 114 Resp: 1232053

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

88 14.9 0.0 32.2



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

6.85

600000

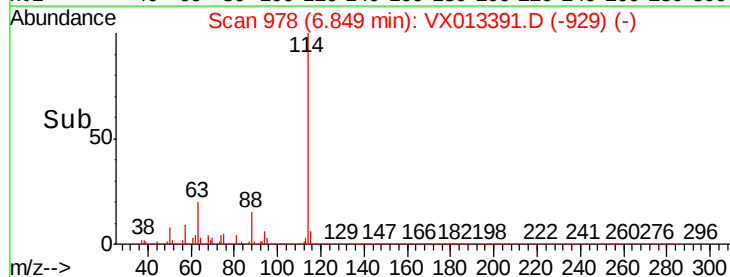
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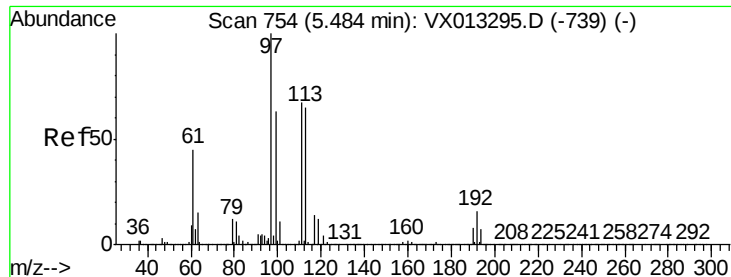
200000

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Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.681 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

S32-TB-2019-8

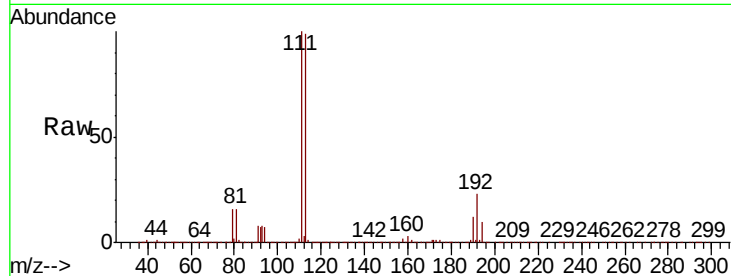
Tot Ion:113 Resp: 368457

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

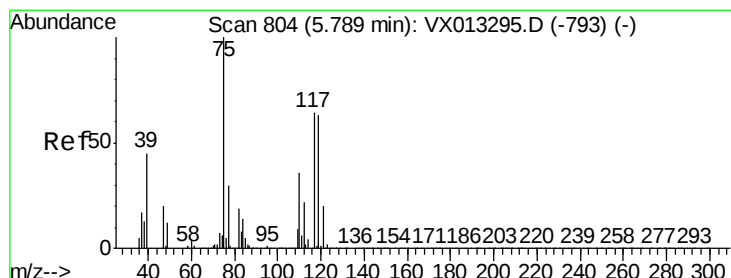
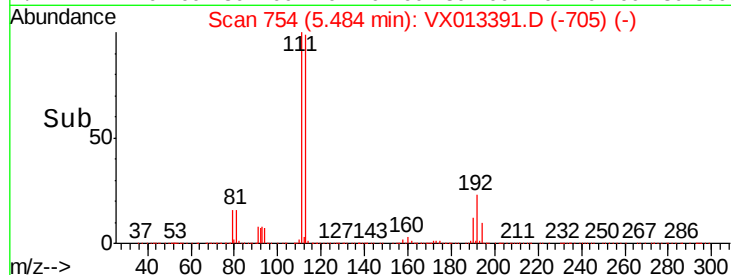
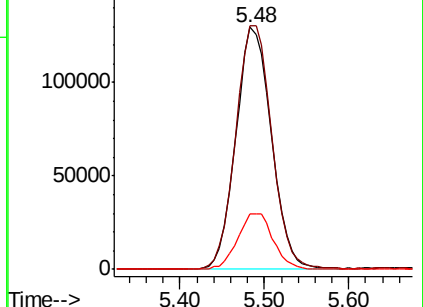
192 23.4 19.1 28.7



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: 4.882 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

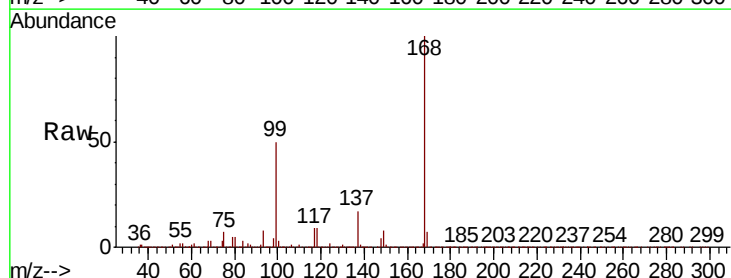
Tgt Ion: 75 Resp: 51601

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

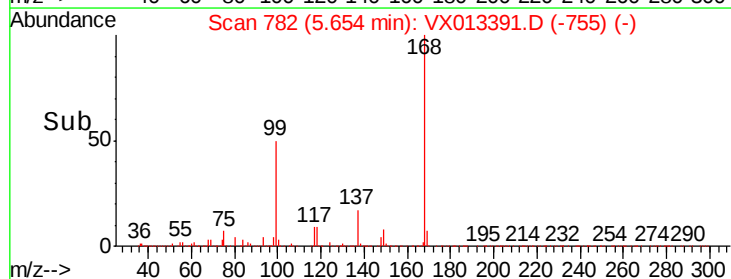
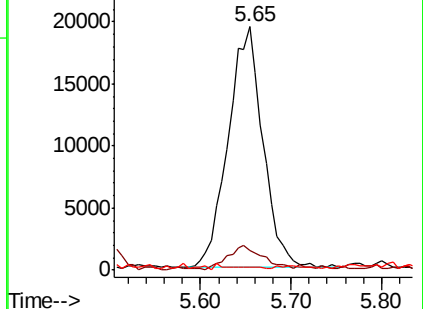
77 0.0 25.0 37.4#

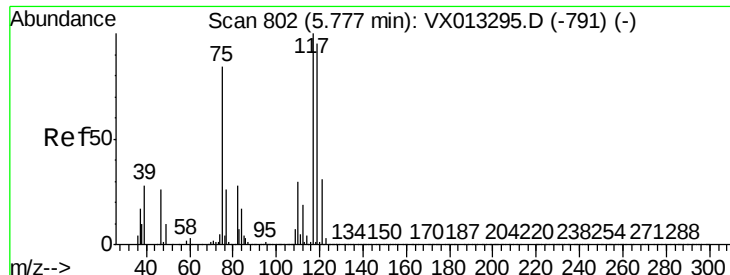


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.596 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

S32-TB-2019-8

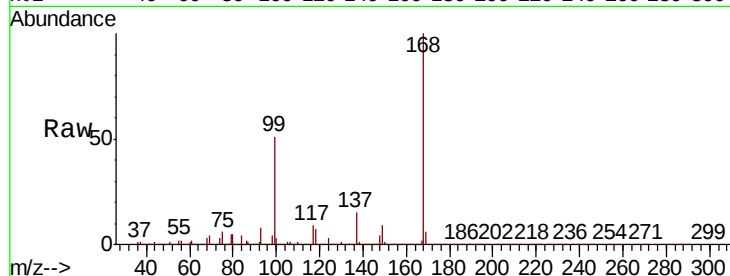
Tot Ion:117 Resp: 68170

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

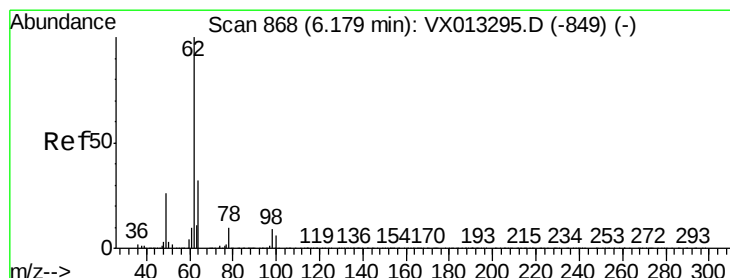
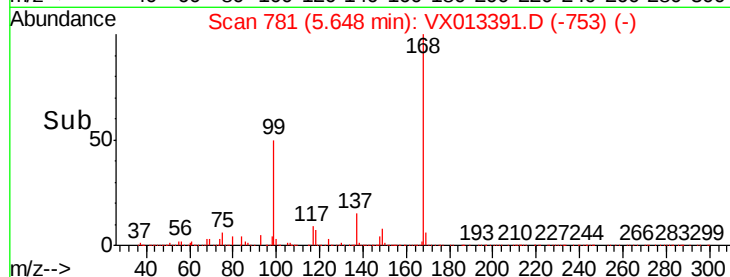
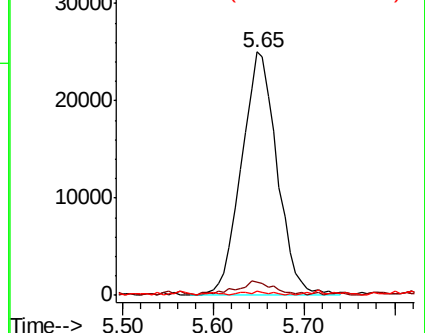
121 0.9 24.6 37.0#



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



#42

1,2-Dichloroethane

Concen: 0.202 ug/l

RT: 6.20 min Scan# 872

Delta R.T. 0.02 min

Lab File: VX013391.D

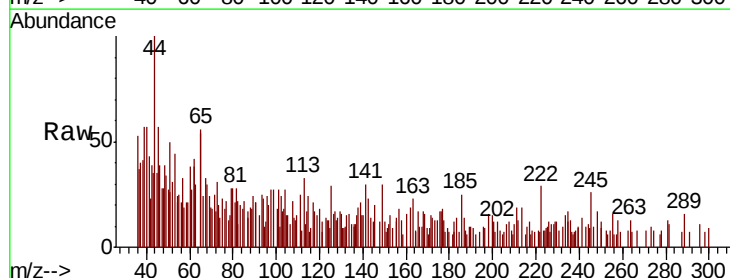
Acq: 12 Nov 2019 17:38

Tgt Ion: 62 Resp: 2399

Ion Ratio Lower Upper

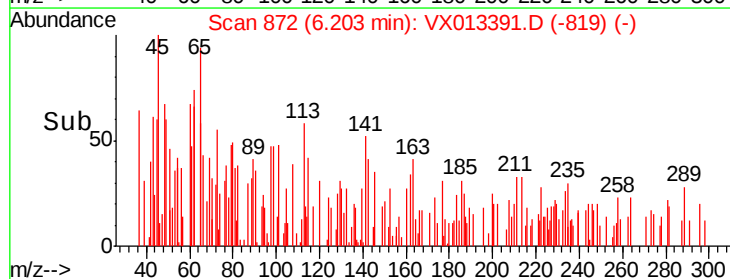
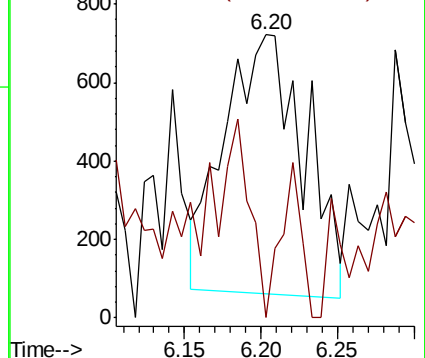
62 100

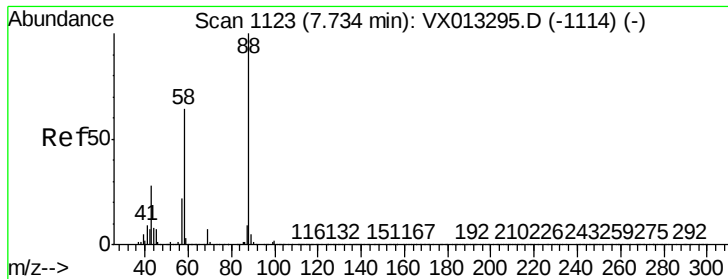
98 14.8 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 1.329 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

S32-TB-2019-8

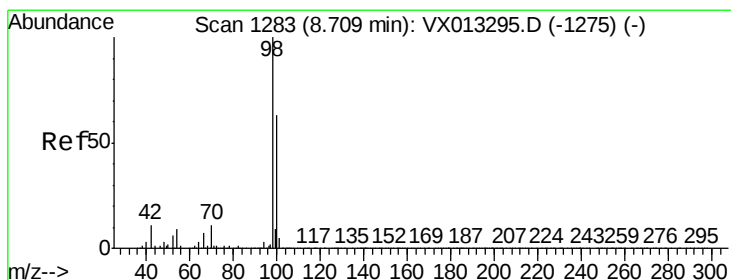
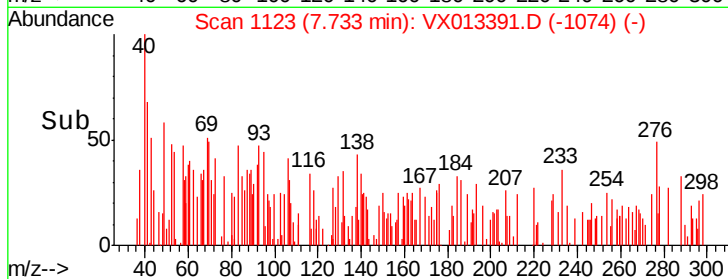
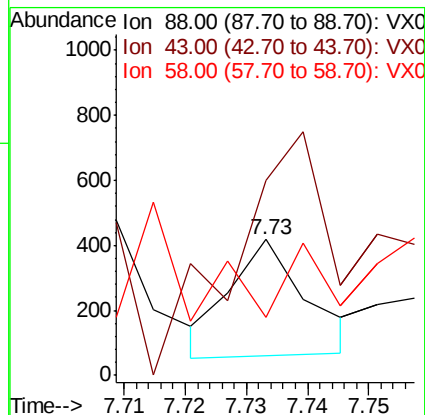
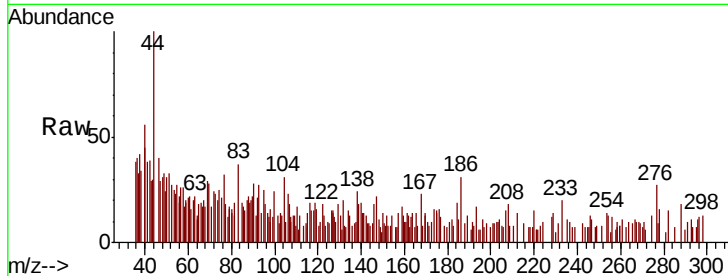
Tot Ion: 88 Resp: 309

Ion Ratio Lower Upper

88 100

43 395.5 26.6 39.8#

58 0.0 55.0 82.6#



#50

Toluene-d8

Concen: 50.305 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013391.D

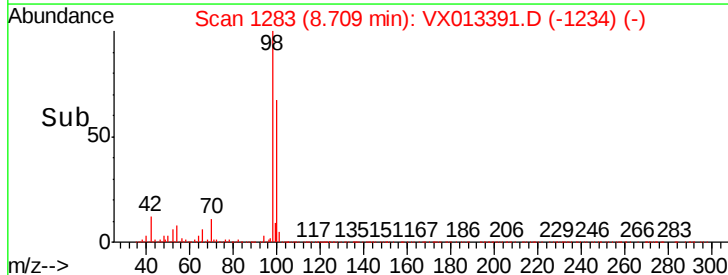
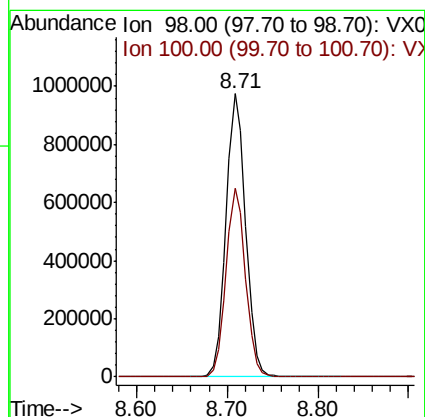
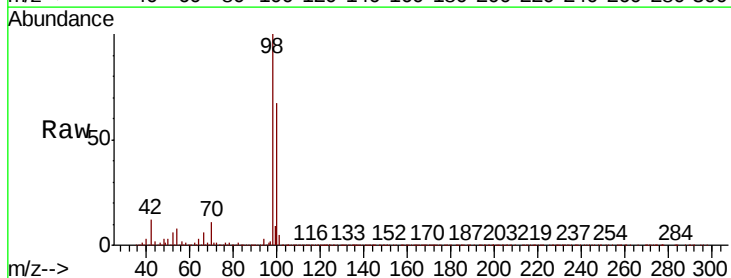
Acq: 12 Nov 2019 17:38

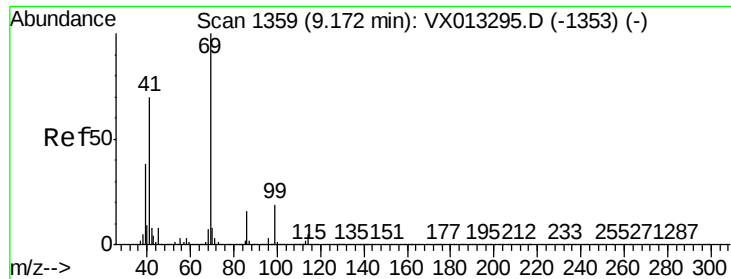
Tgt Ion: 98 Resp: 1465510

Ion Ratio Lower Upper

98 100

100 66.2 52.2 78.2

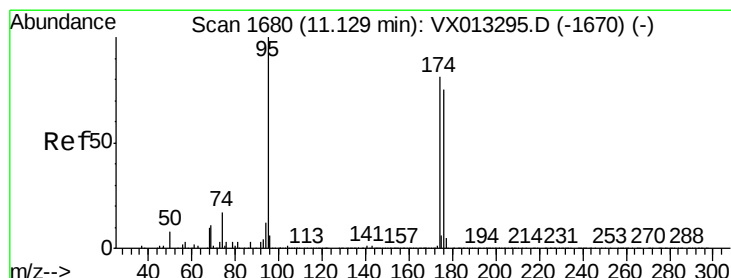
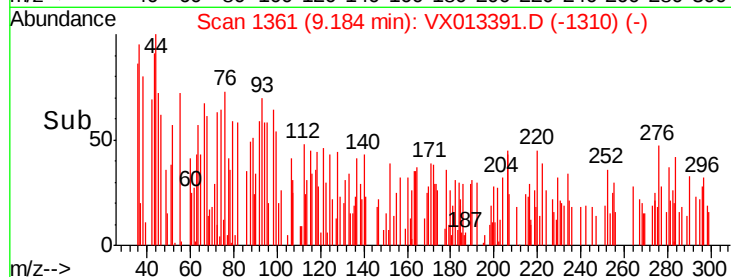
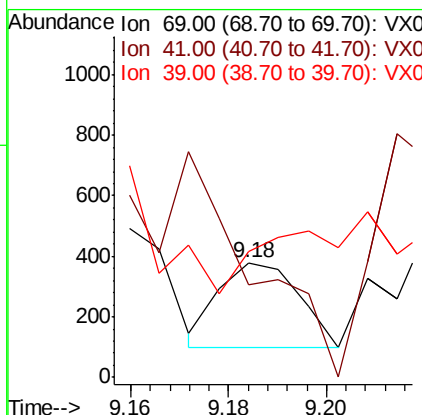
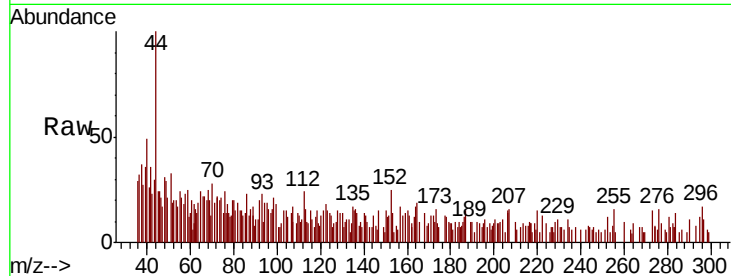




#56  
Ethyl methacrylate  
Concen: 1.584 ug/l  
RT: 9.18 min Scan# 1361  
Delta R.T. 0.01 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

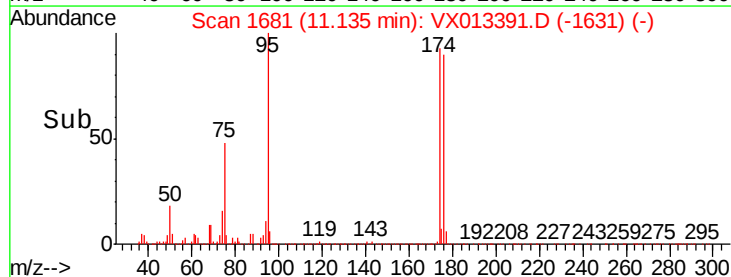
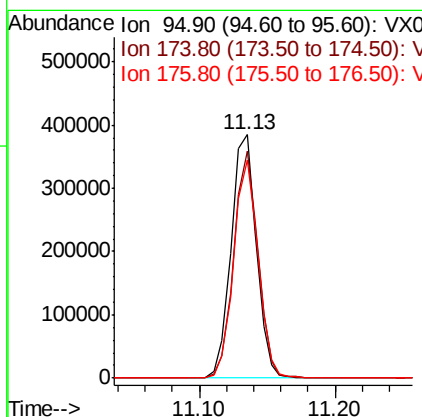
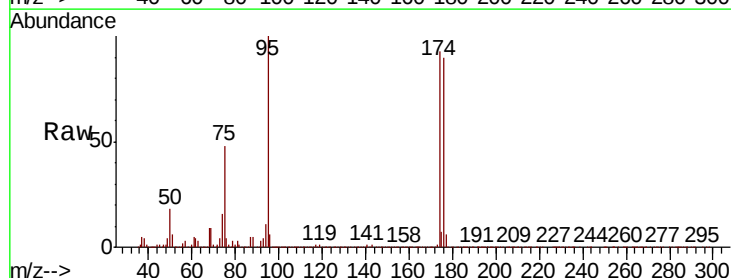
Instrument :  
MSVOA\_X  
ClientSampled :  
S32-TB-2019-8

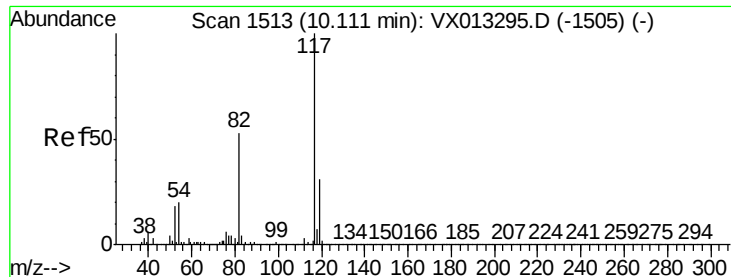
Tot Ion: 69 Resp: 320  
Ion Ratio Lower Upper  
69 100  
41 365.3 56.2 84.2#  
39 0.0 31.1 46.7#



#62  
4-Bromofluorobenzene  
Concen: 47.433 ug/l  
RT: 11.13 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

Tgt Ion: 95 Resp: 498705  
Ion Ratio Lower Upper  
95 100  
174 89.4 0.0 179.8  
176 86.9 0.0 173.0

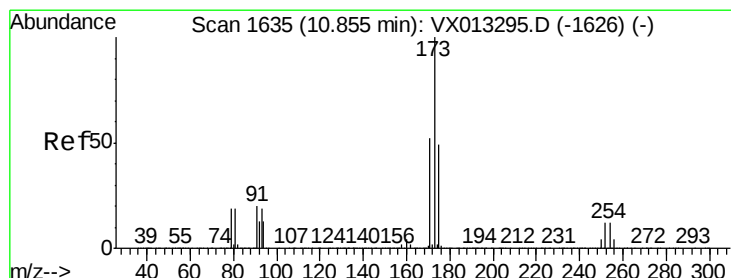
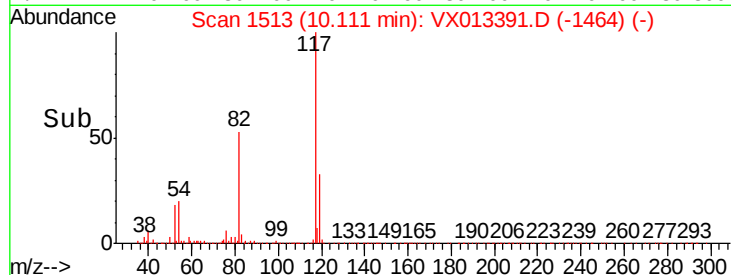
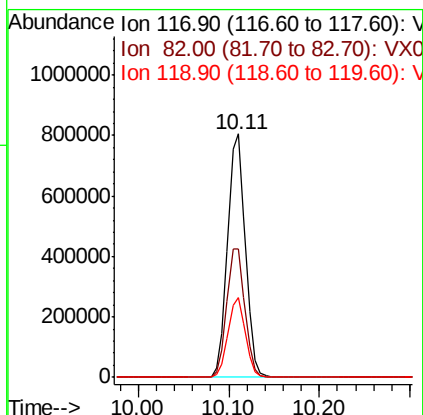
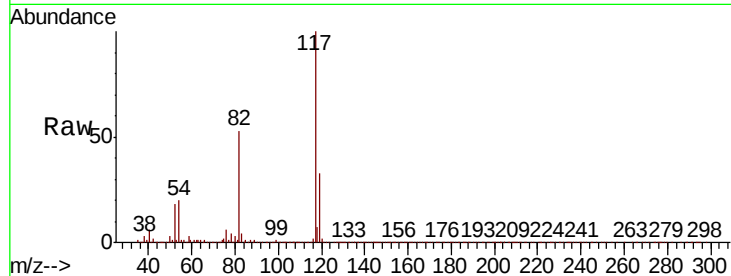




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

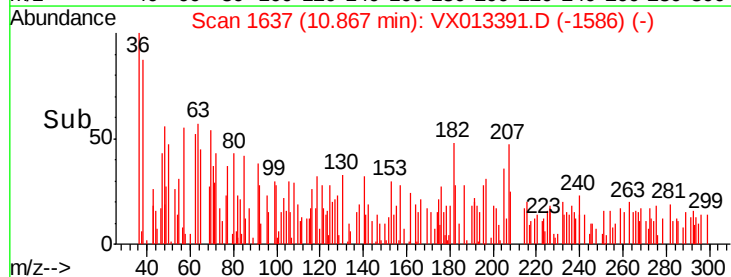
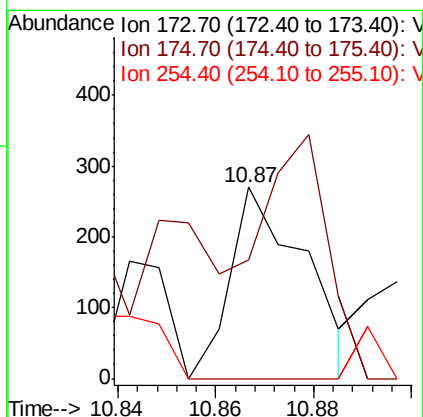
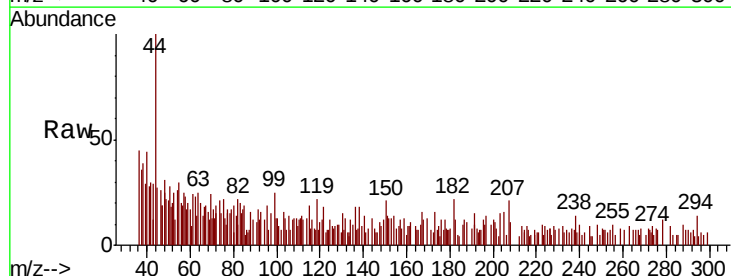
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-TB-2019-8

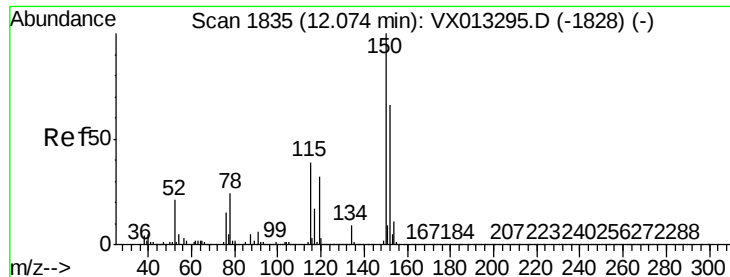
Tot Ion:117 Resp: 1095270  
Ion Ratio Lower Upper  
117 100  
82 52.6 42.6 64.0  
119 32.8 24.8 37.2



#71  
Bromoform  
Concen: 3.238 ug/l  
RT: 10.87 min Scan# 1637  
Delta R.T. 0.01 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

Tgt Ion:173 Resp: 284  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.8 74.4#  
254 0.0 0.2 0.2#



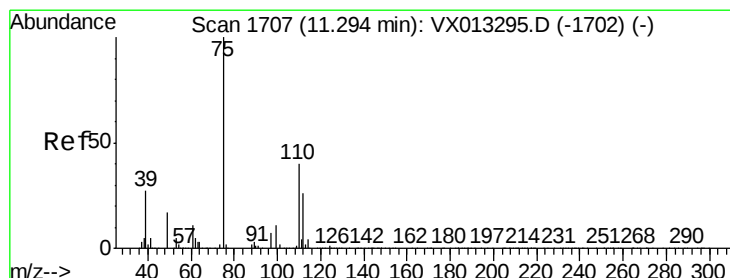
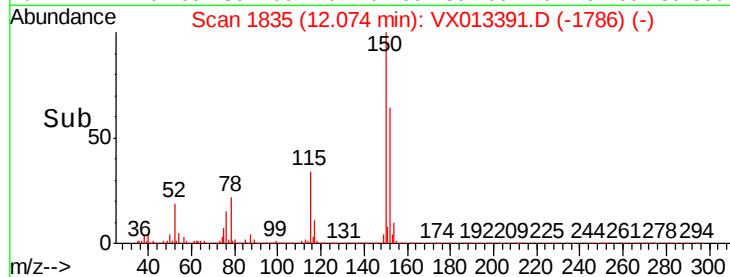
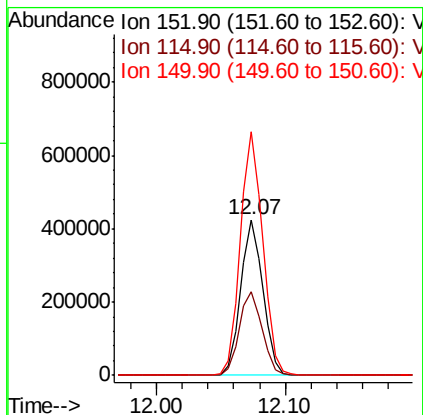
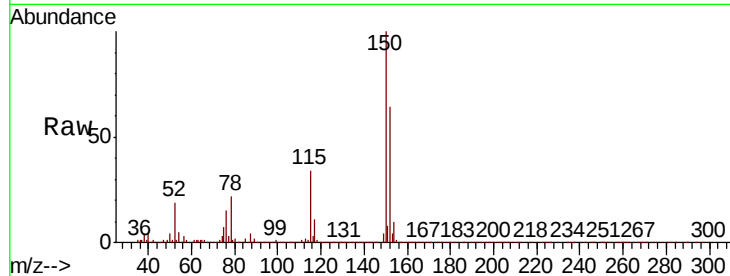


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-TB-2019-8

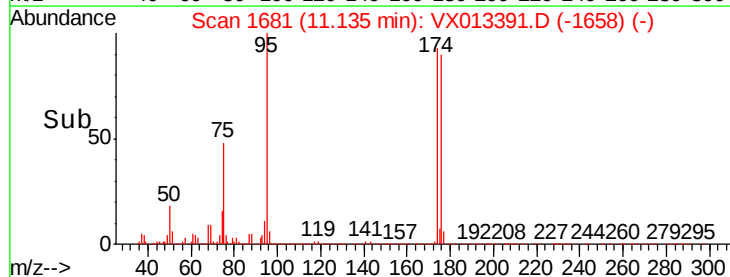
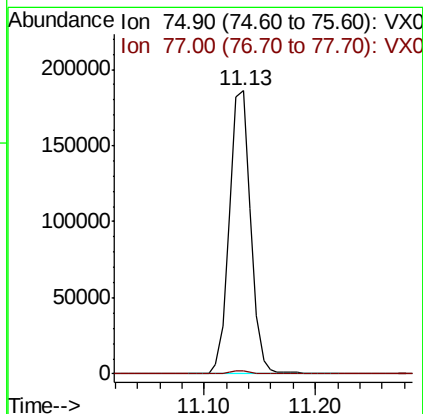
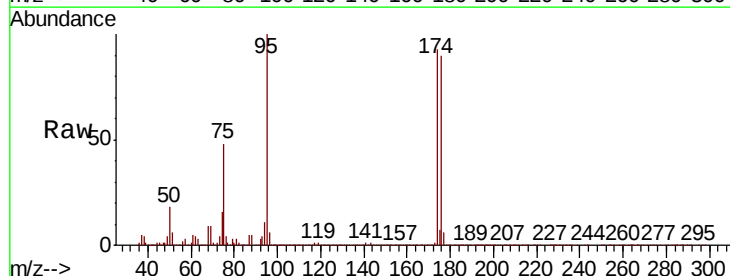
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 39.5  | 118.3 |
| 150     | 157.8 | 0.0   | 344.4 |

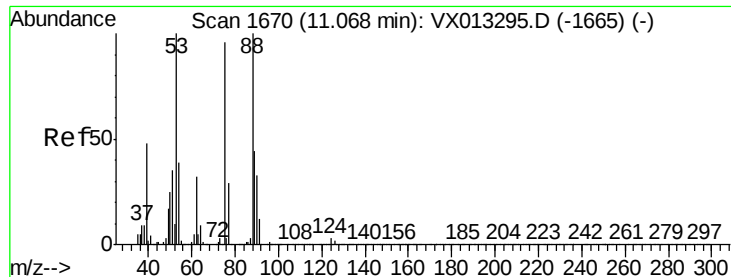


#76

1,2,3-Trichloropropane  
Concen: 23.855 ug/l  
RT: 11.13 min Scan# 1681  
Delta R.T. -0.16 min  
Lab File: VX013391.D  
Acq: 12 Nov 2019 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.4   | 22.3  | 66.8  |





#81

trans-1,4-Dichloro-2-butene

Concen: 61.403 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013391.D

Acq: 12 Nov 2019 17:38

Instrument :

MSVOA\_X

ClientSampleId :

S32-TB-2019-8

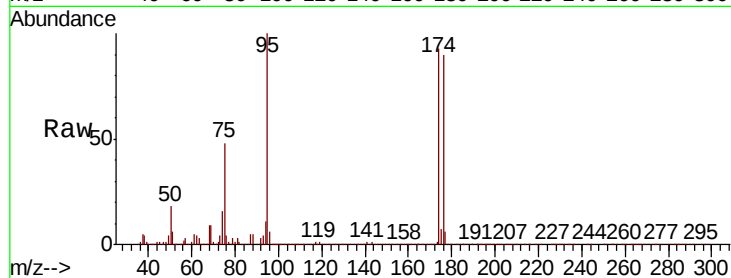
Tot Ion: 75 Resp: 245756

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.2 36.0 54.0#



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

