

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031620\  
 Data File : VX015290.D  
 Acq On : 16 Mar 2020 13:42  
 Operator : JC/SP  
 Sample : L1903-10DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D2-20200309DL

Quant Time: Mar 17 07:40:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 330932   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 524359   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 514899   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 263208   | 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   | 187557   | 47.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.54%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 162747   | 49.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.40%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 636488   | 50.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.16% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 242258   | 53.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.96% |          |

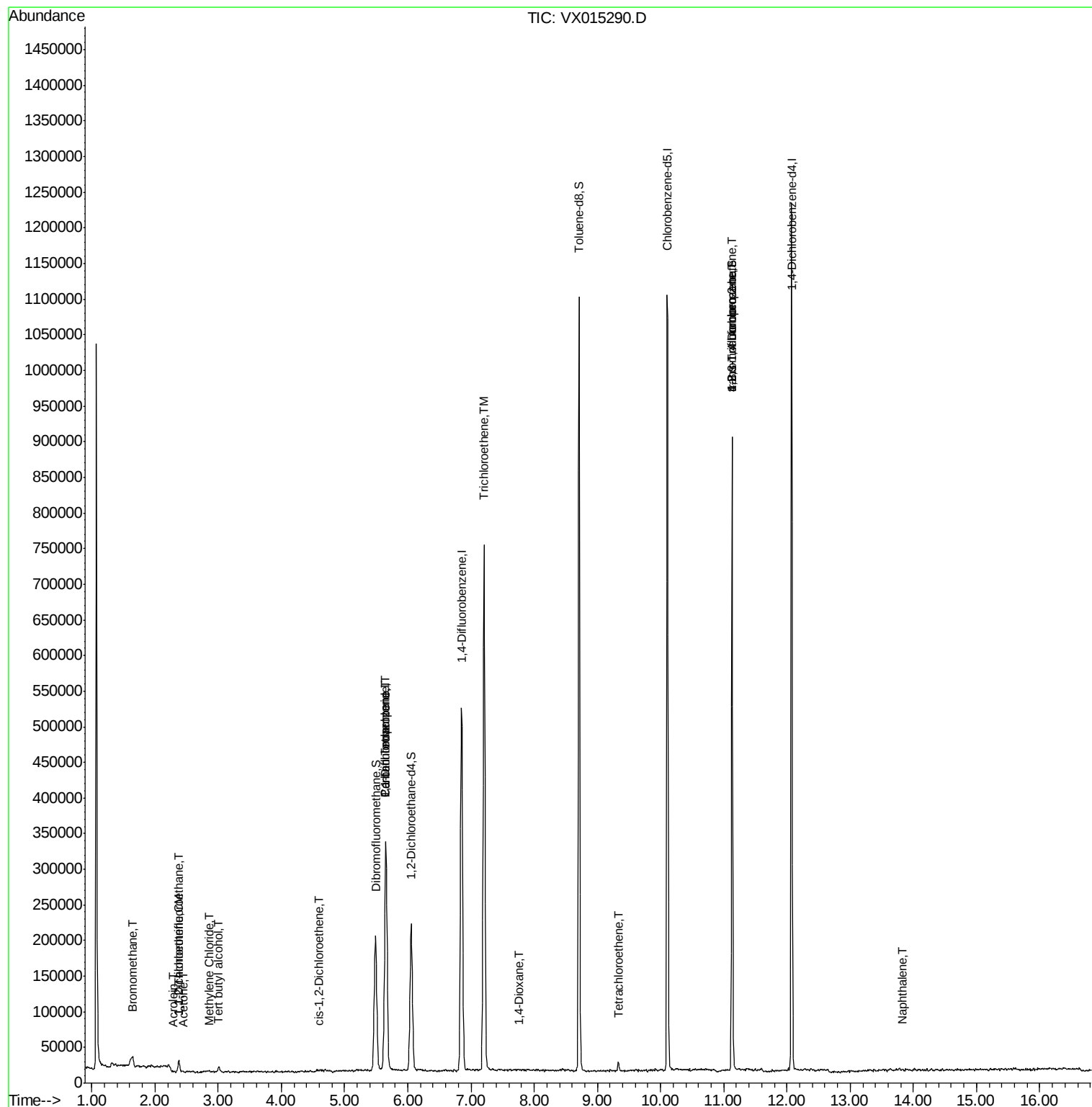
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 652      | 0.255  | ug/l # | 31     |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.38  | 101  | 6940     | 2.227  | ug/l   | 94     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 4182     | 6.139  | ug/l # | 88     |
| 12) 1,1-Dichloroethene         | 2.37  | 96   | 1282     | 0.399  | ug/l # | 60     |
| 13) Acrolein                   | 2.29  | 56   | 667      | 1.042  | ug/l # | 43     |
| 16) Acetone                    | 2.44  | 43   | 1581     | 0.994  | ug/l # | 55     |
| 20) Methylene Chloride         | 2.86  | 84   | 1035     | 0.278  | ug/l # | 38     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 1637     | 0.425  | ug/l   | 86     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 21814    | 4.500  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 28892    | 6.314  | ug/l # | 15     |
| 44) Trichloroethene            | 7.21  | 130  | 295019   | 73.658 | ug/l   | 99     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 465      | 5.342  | ug/l # | 64     |
| 64) Tetrachloroethene          | 9.33  | 164  | 2767     | 0.650  | ug/l # | 89     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 115875   | 22.071 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 115875   | 62.636 | ug/l # | 11     |
| 95) Naphthalene                | 13.84 | 128  | 975      | 1.474  | ug/l # | 70     |

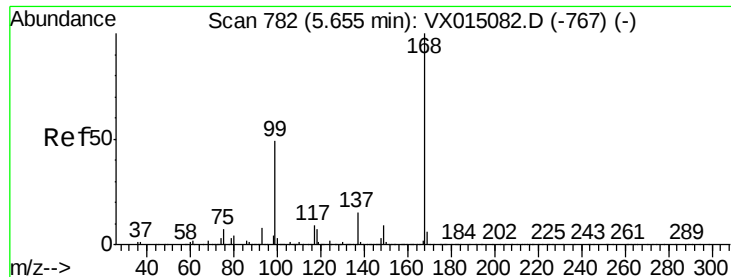
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031620\  
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Sample : L1903-10DL 10X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20200309DL

Quant Time: Mar 17 07:40:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 04 14:19:10 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

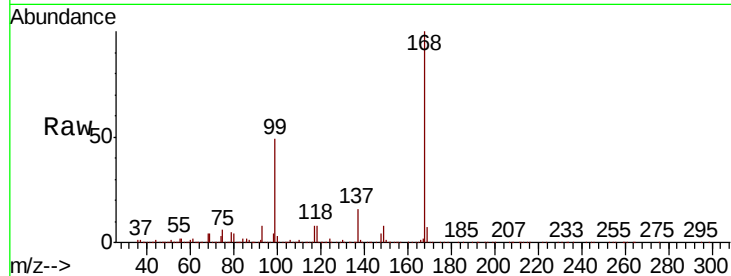
RE120D2-20200309DL

Tot Ion:168 Resp: 330932

Ion Ratio Lower Upper

168 100

99 48.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

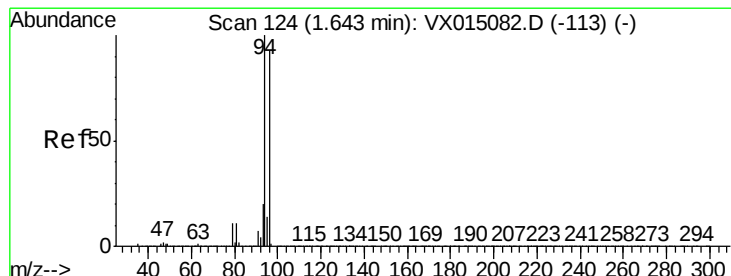
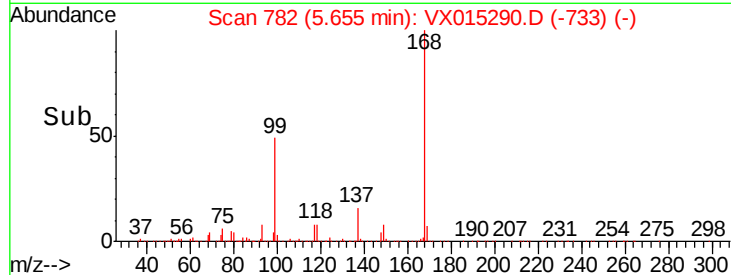
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.255 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015290.D

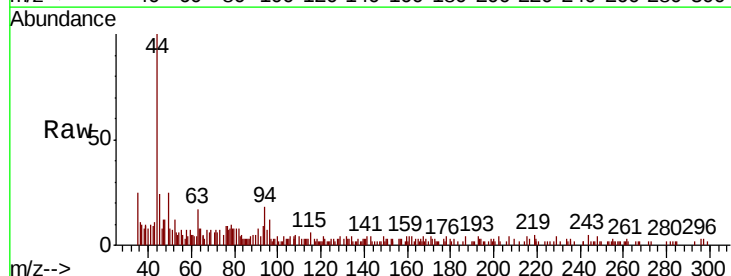
Acq: 16 Mar 2020 13:42

Tgt Ion: 94 Resp: 652

Ion Ratio Lower Upper

94 100

96 26.9 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

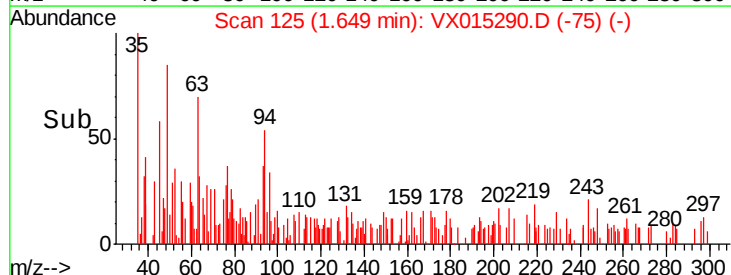
400

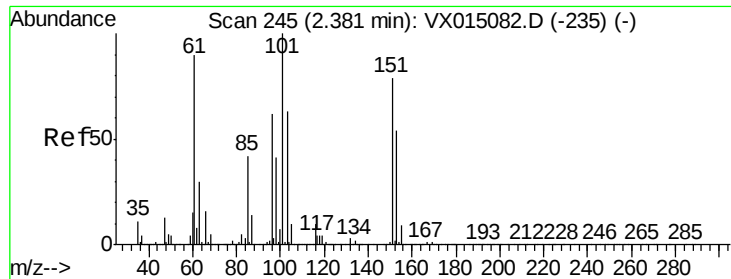
200

0

Time-->

1.60 1.65





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.227 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-20200309DL

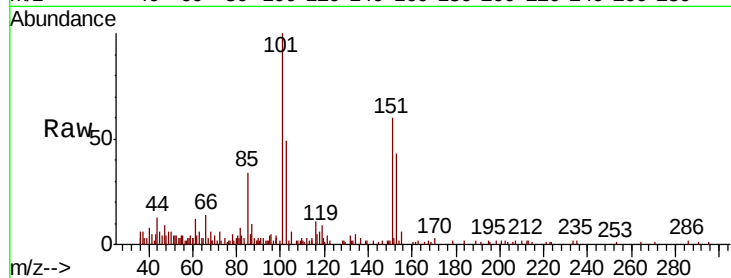
Tot Ion:101 Resp: 6940

Ion Ratio Lower Upper

101 100

85 37.3 33.7 50.5

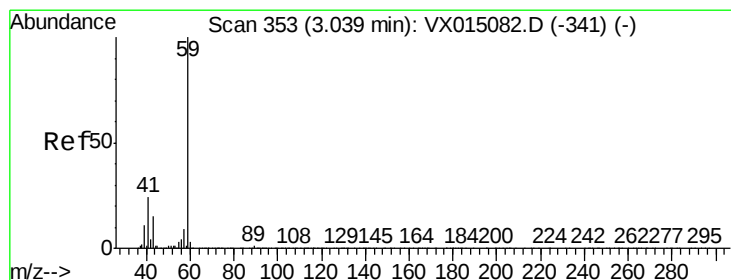
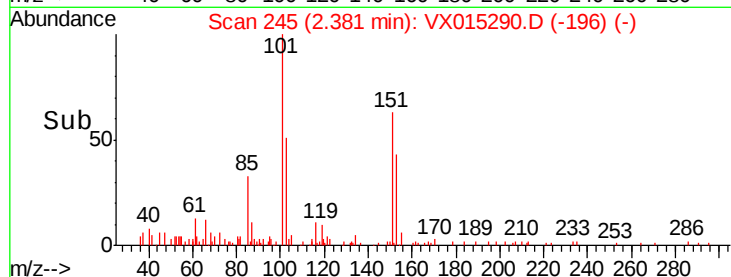
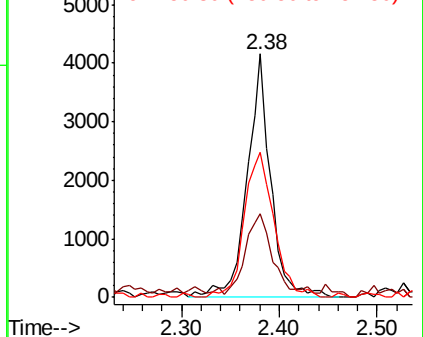
151 75.6 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 6.139 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX015290.D

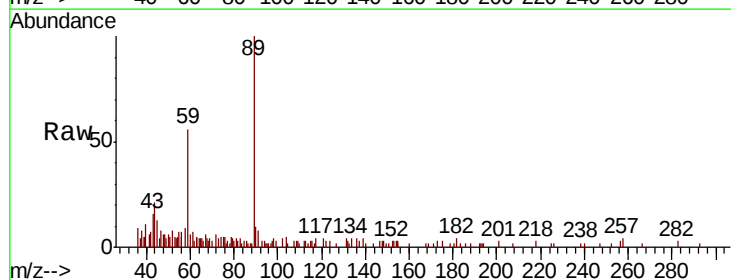
Acq: 16 Mar 2020 13:42

Tgt Ion: 59 Resp: 4182

Ion Ratio Lower Upper

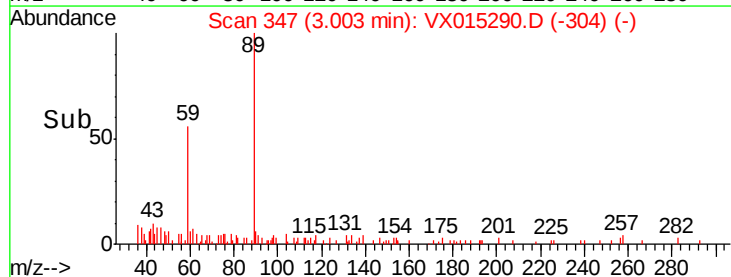
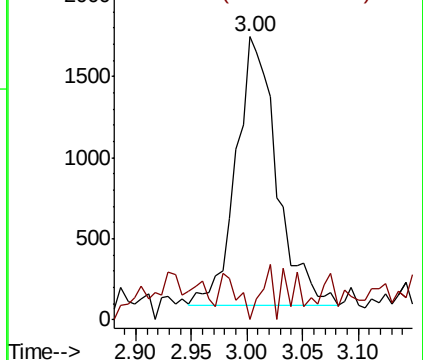
59 100

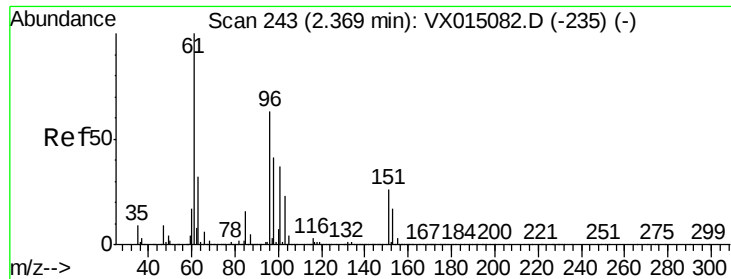
57 5.7 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.399 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-20200309DL

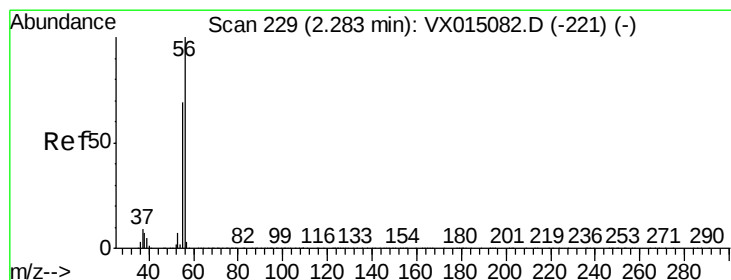
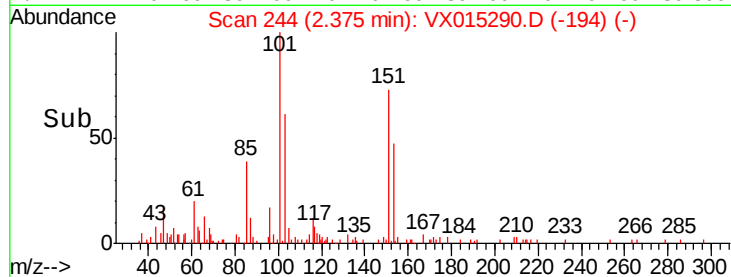
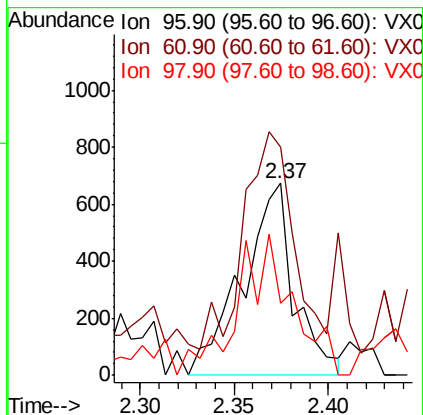
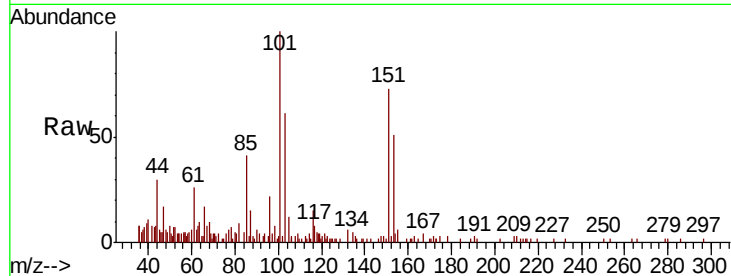
Tot Ion: 96 Resp: 1282

Ion Ratio Lower Upper

96 100

61 103.0 126.2 189.4#

98 37.6 51.4 77.0#



#13

Acrolein

Concen: 1.042 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015290.D

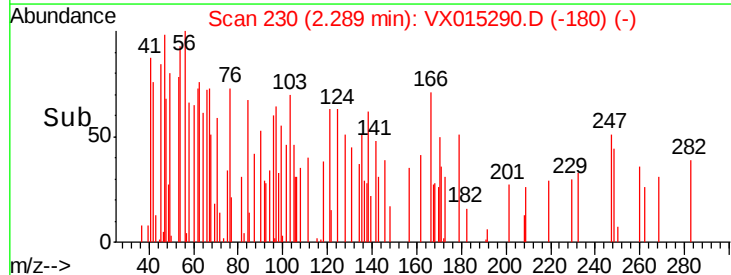
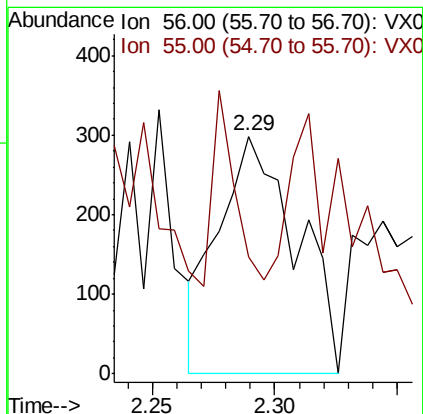
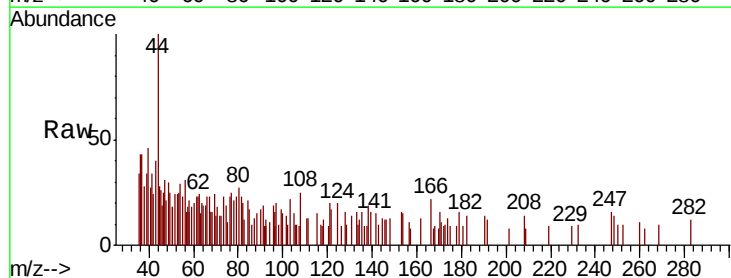
Acq: 16 Mar 2020 13:42

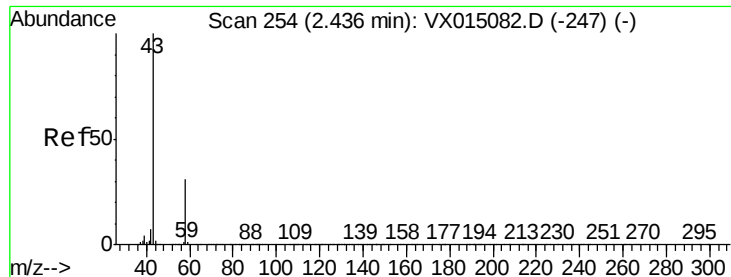
Tgt Ion: 56 Resp: 667

Ion Ratio Lower Upper

56 100

55 23.1 55.4 83.0#





#16

Acetone

Concen: 0.994 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

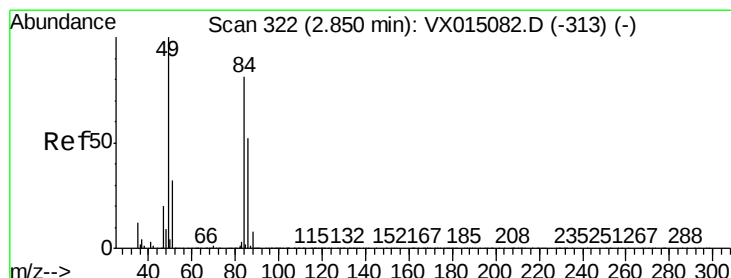
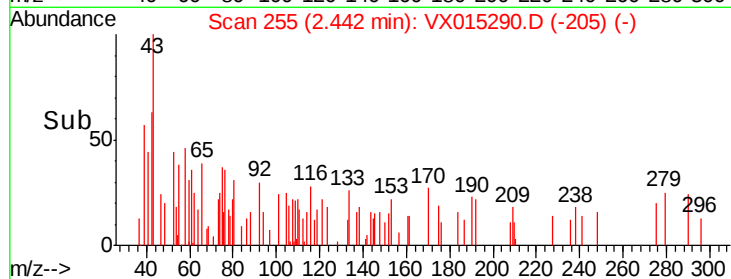
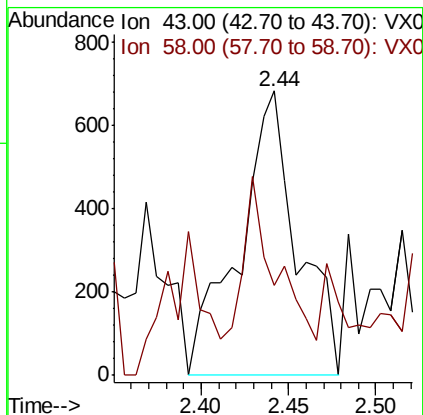
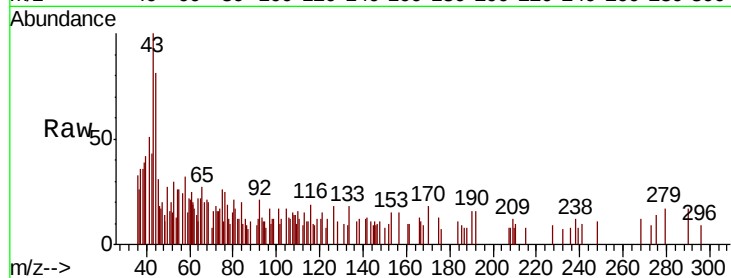
RE120D2-20200309DL

Tot Ion: 43 Resp: 1581

Ion Ratio Lower Upper

43 100

58 6.0 24.8 37.2#



#20

Methylene Chloride

Concen: 0.278 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Tgt Ion: 84 Resp: 1035

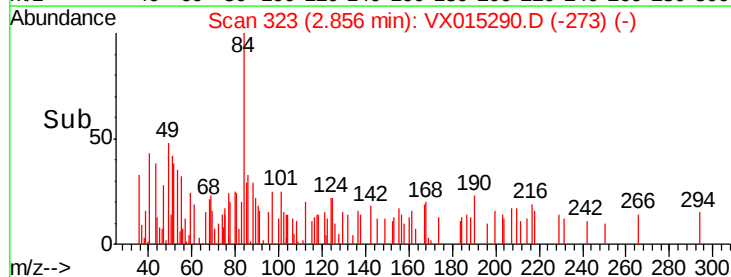
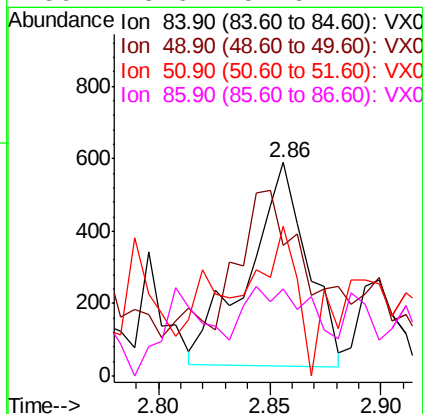
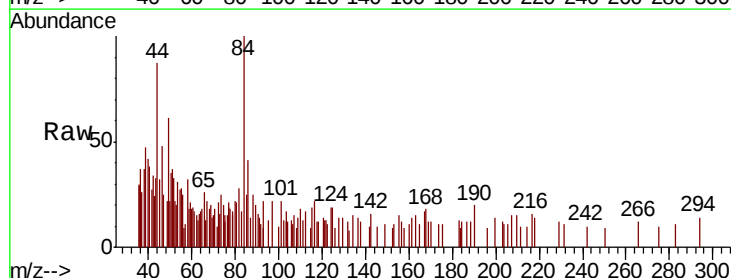
Ion Ratio Lower Upper

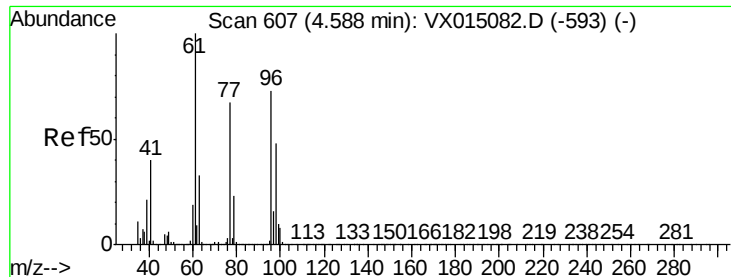
84 100

49 33.2 99.4 149.2#

51 54.3 31.5 47.3#

86 25.6 51.6 77.4#



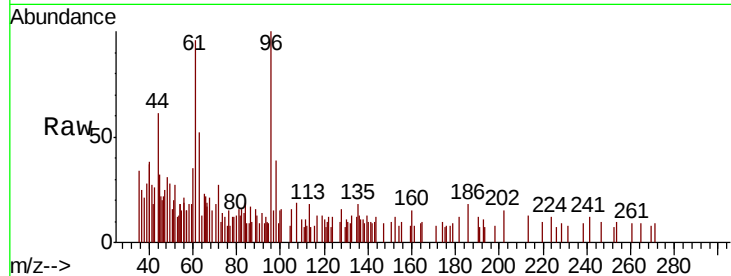


#27

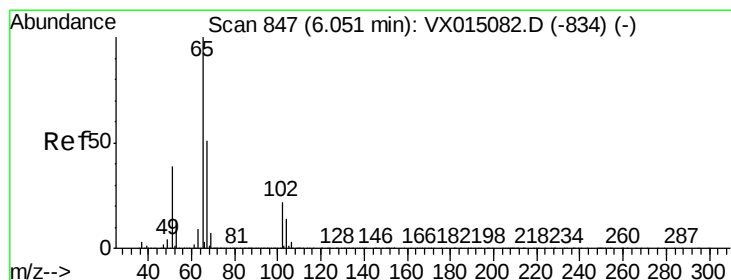
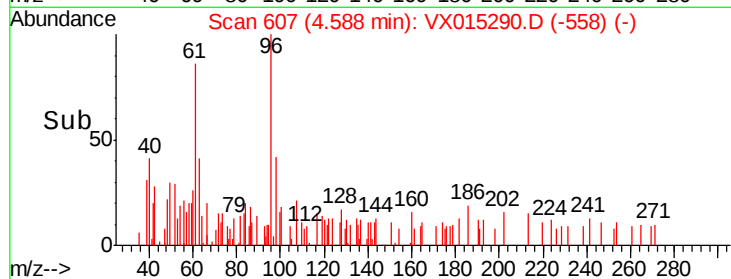
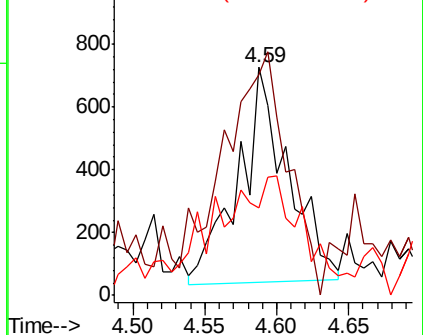
cis-1,2-Dichloroethene  
Concen: 0.425 ug/l  
RT: 4.59 min Scan# 607  
Delta R.T. -0.00 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20200309DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 147.5 | 0.0   | 286.8 |
| 98      | 95.1  | 0.0   | 128.4 |



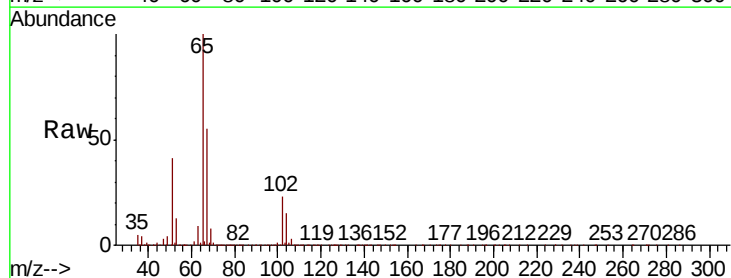
Abundance Ion 95.90 (95.60 to 96.60): VX0  
Ion 60.90 (60.60 to 61.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



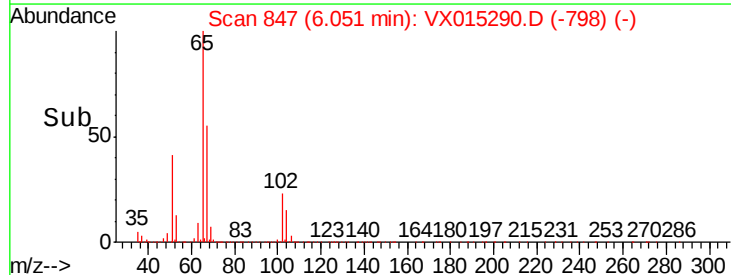
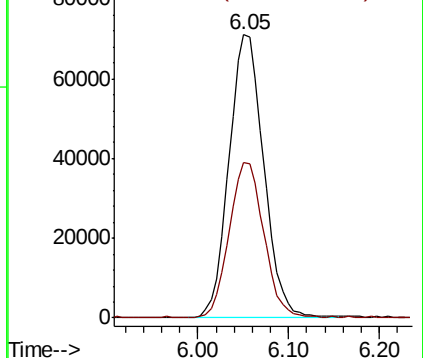
#33

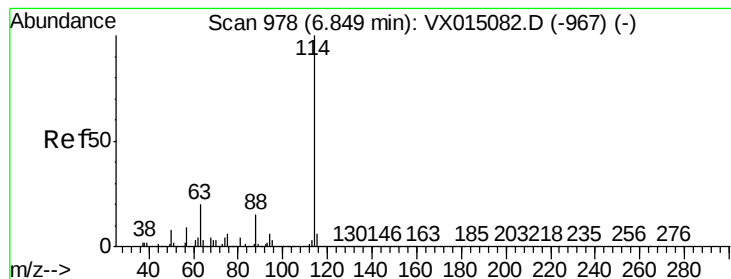
1,2-Dichloroethane-d4  
Concen: 47.772 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 54.8  | 0.0   | 105.6 |



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-20200309DL

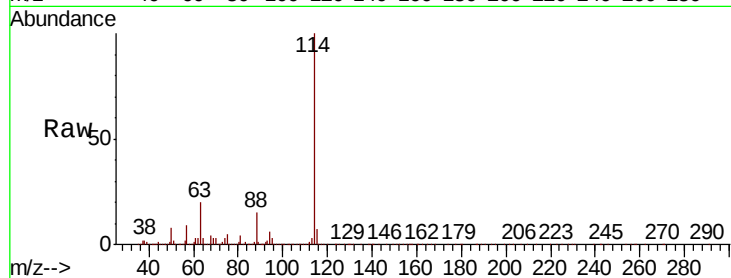
Tot Ion:114 Resp: 524359

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

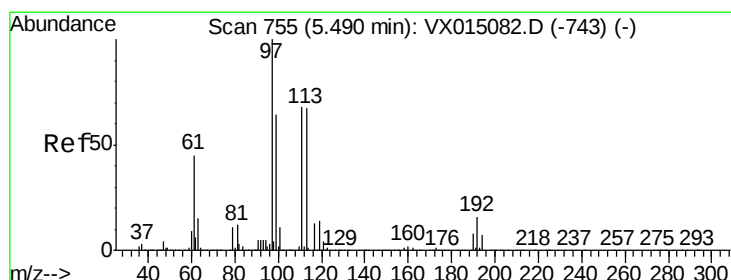
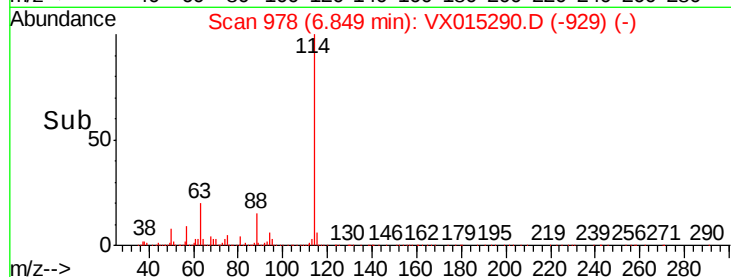
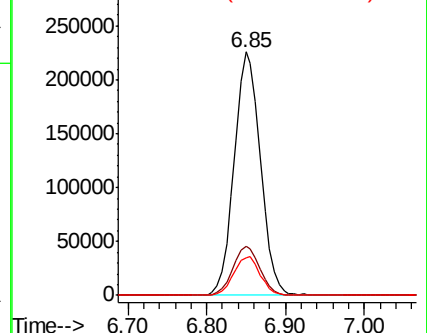
88 15.3 0.0 30.6



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



#35

Dibromofluoromethane

Concen: 49.198 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

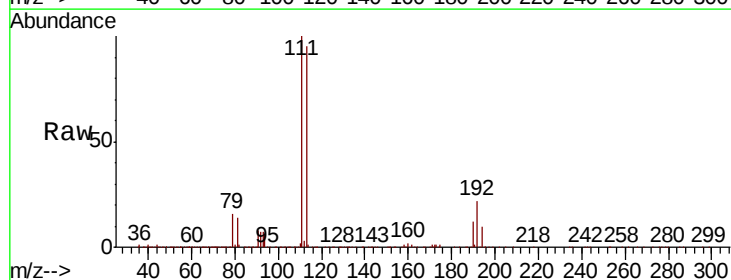
Tgt Ion:113 Resp: 162747

Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

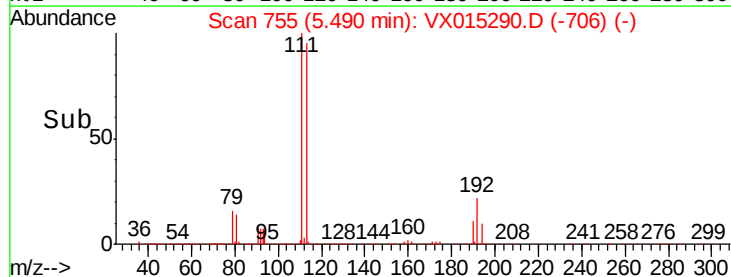
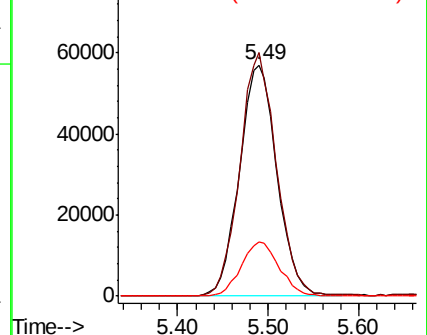
192 23.8 18.6 28.0

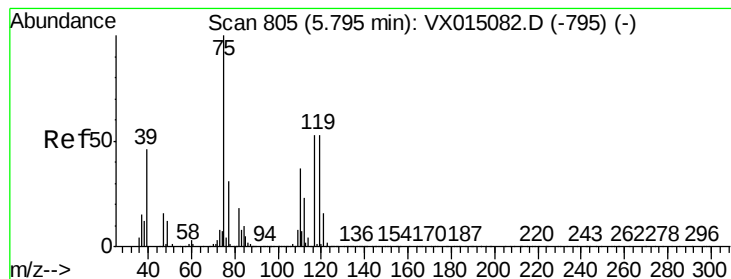


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.500 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-20200309DL

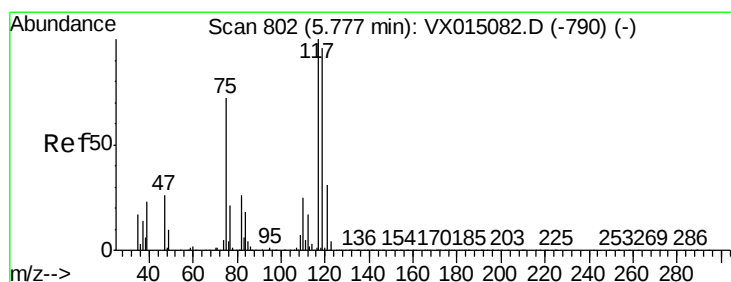
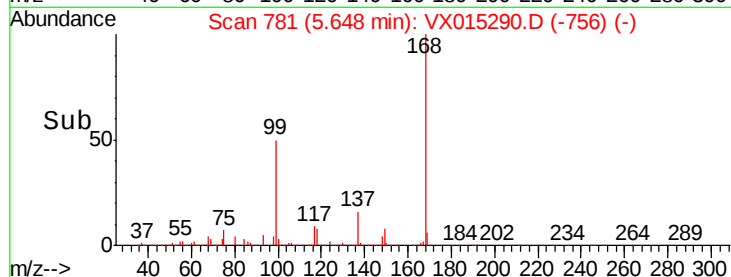
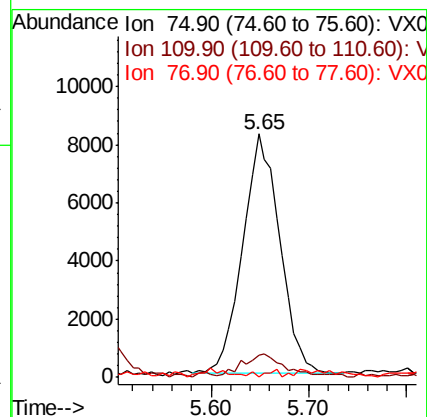
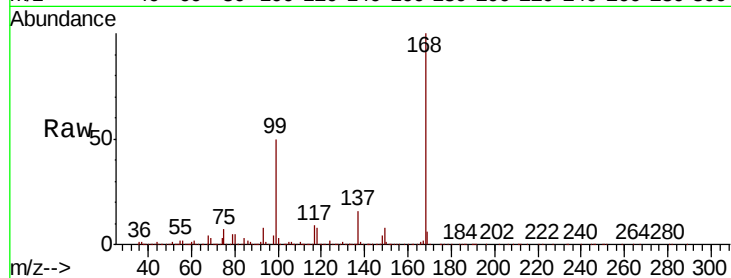
Tot Ion: 75 Resp: 21814

Ion Ratio Lower Upper

75 100

110 11.6 17.9 53.8#

77 0.9 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.314 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

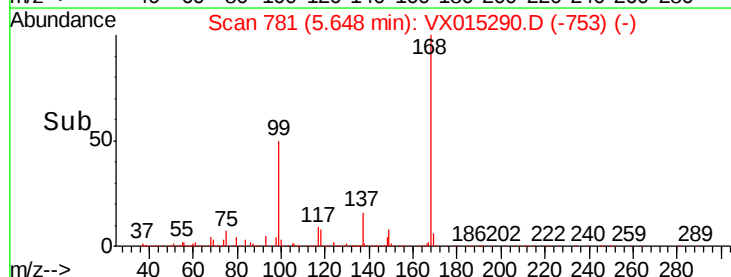
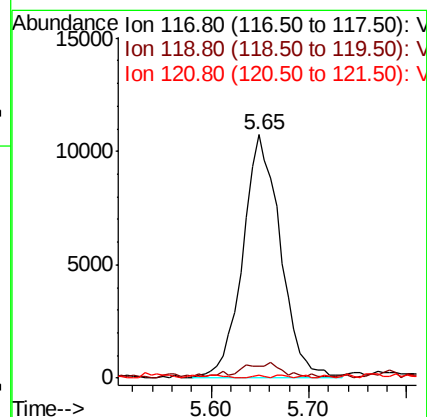
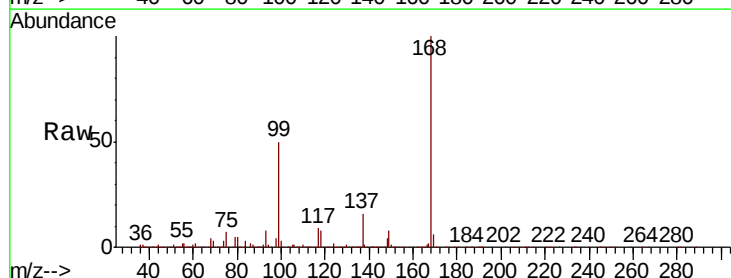
Tgt Ion: 117 Resp: 28892

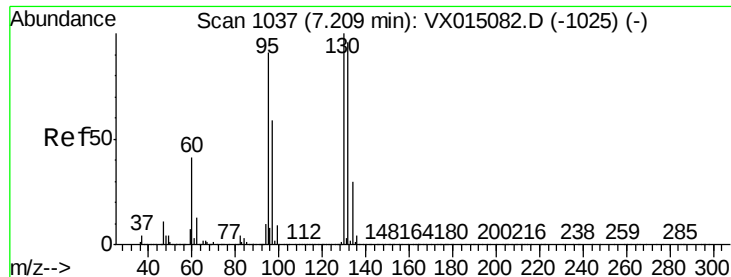
Ion Ratio Lower Upper

117 100

119 4.3 76.9 115.3#

121 0.5 24.6 37.0#





#44

Trichloroethene

Concen: 73.658 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

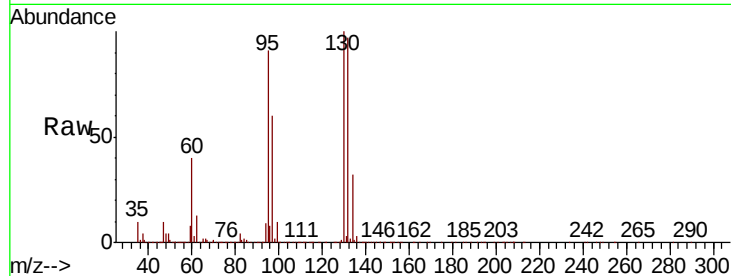
RE120D2-20200309DL

Tot Ion:130 Resp: 295019

Ion Ratio Lower Upper

130 100

95 91.1 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

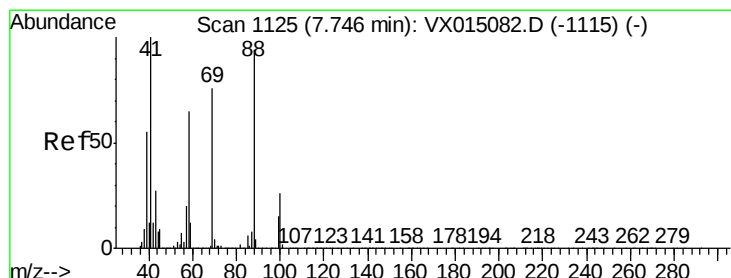
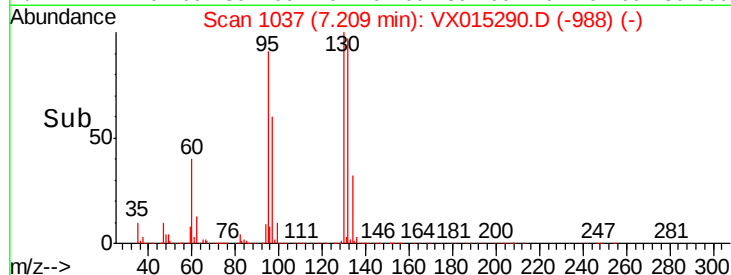
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 5.342 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

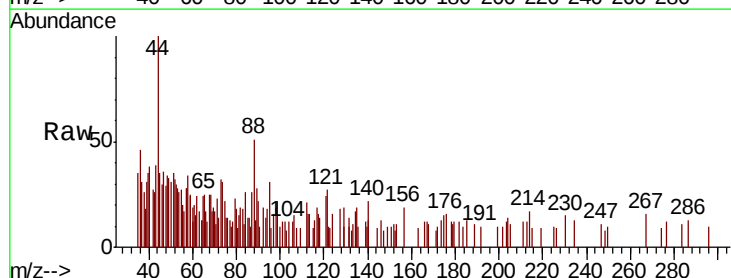
Tgt Ion: 88 Resp: 465

Ion Ratio Lower Upper

88 100

43 95.1 27.0 40.4#

58 70.5 55.6 83.4



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

500

400

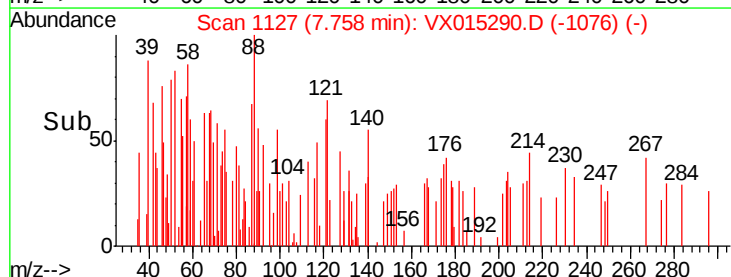
300

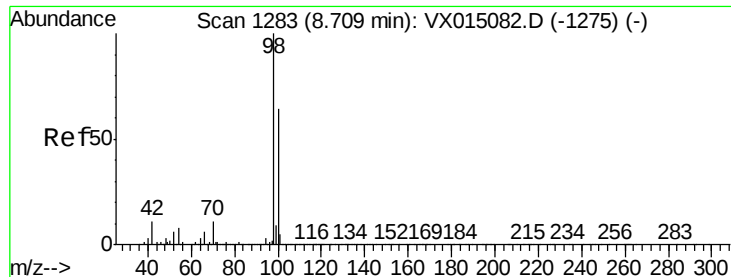
200

100

0

Time-->





#50

Toluene-d8

Concen: 50.582 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

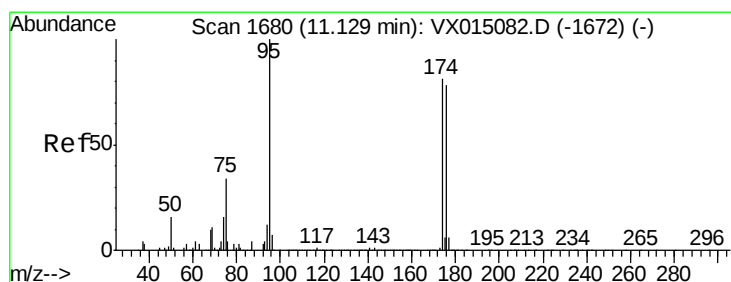
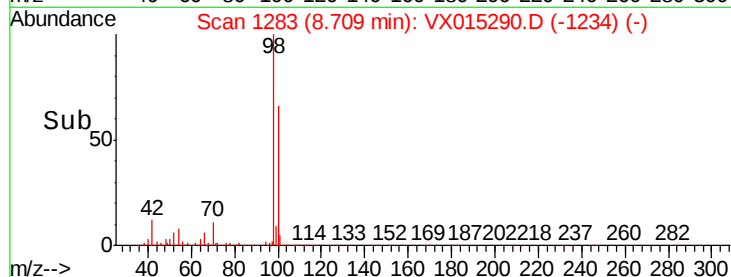
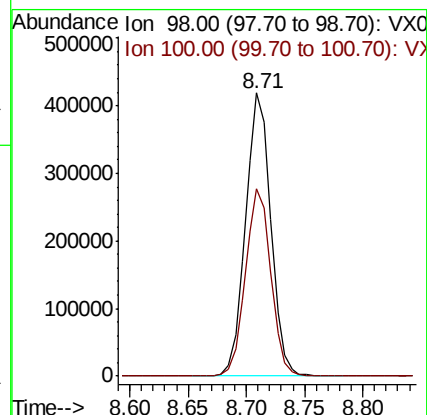
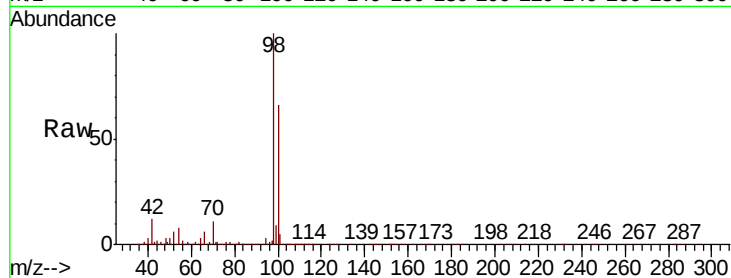
RE120D2-20200309DL

Tot Ion: 98 Resp: 636488

Ion Ratio Lower Upper

98 100

100 66.6 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 53.975 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

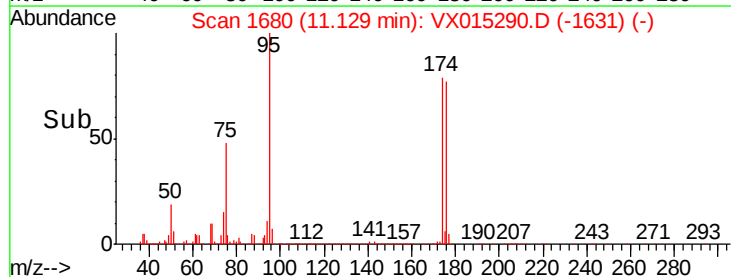
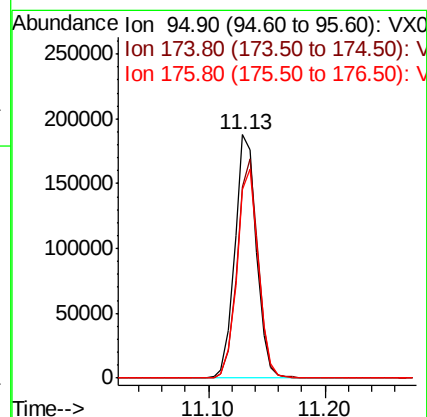
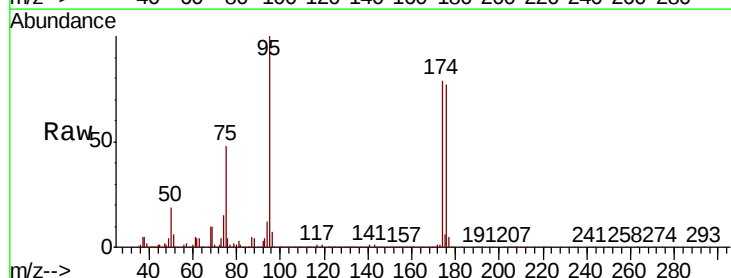
Tgt Ion: 95 Resp: 242258

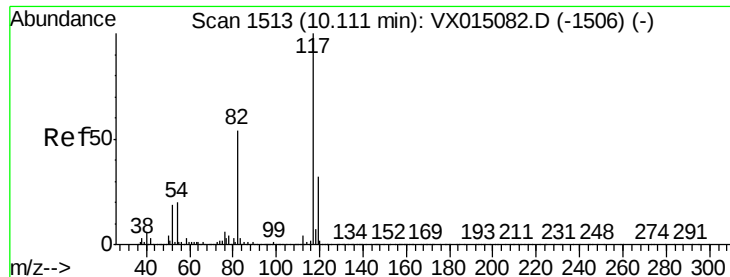
Ion Ratio Lower Upper

95 100

174 88.0 0.0 177.6

176 85.7 0.0 170.2

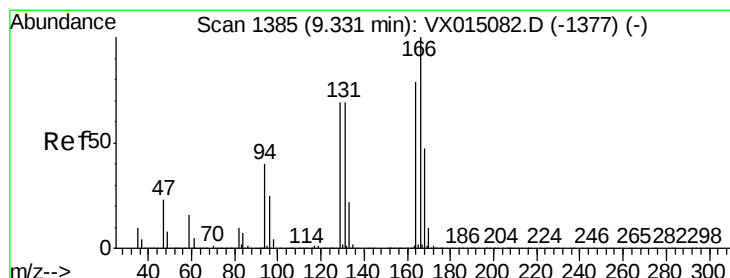
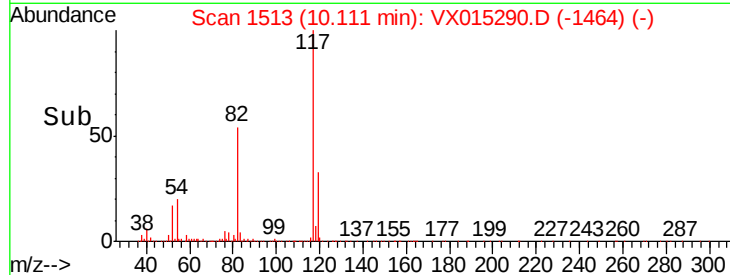
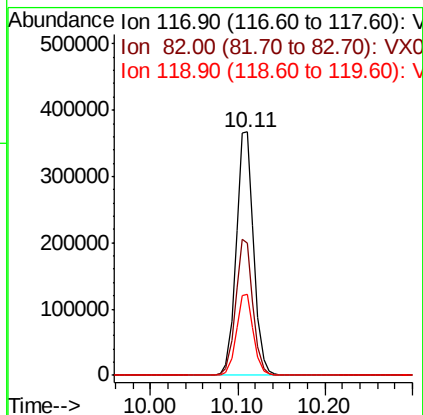
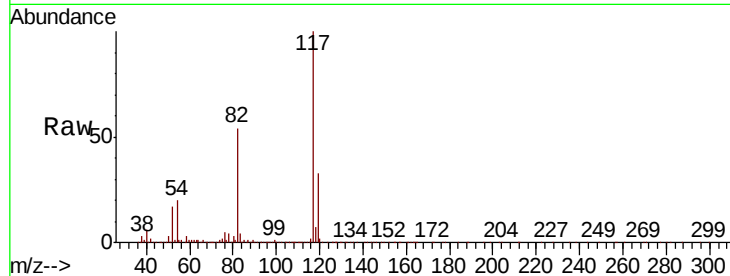




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

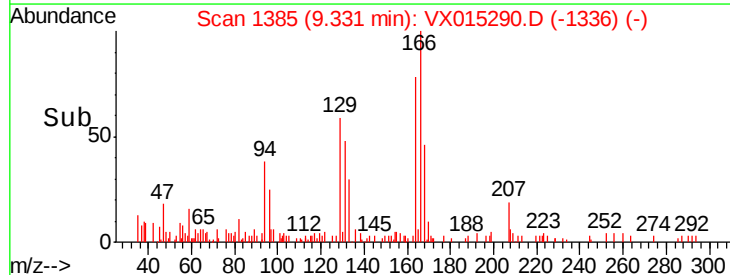
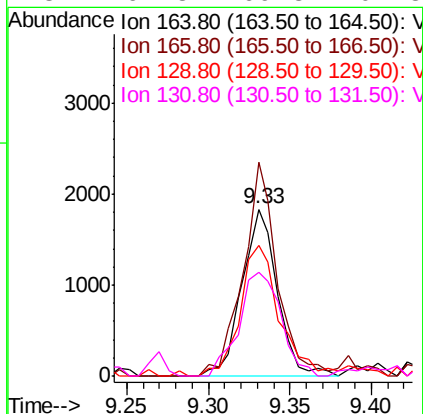
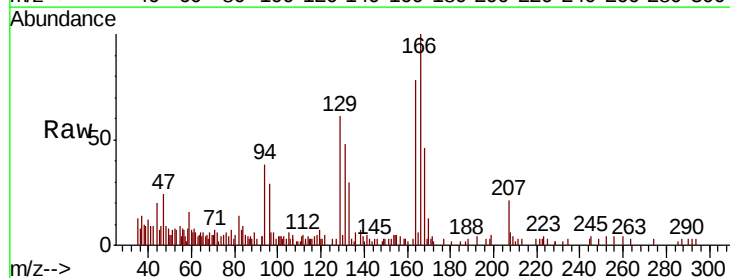
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20200309DL

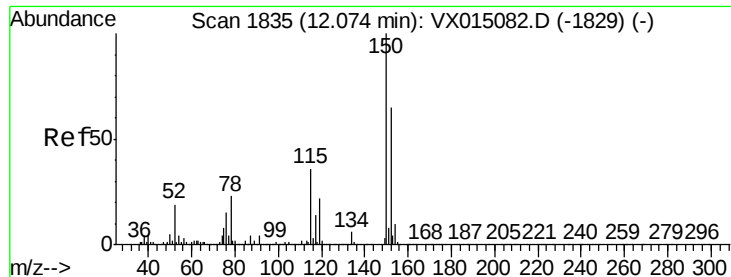
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 43.3  | 64.9  |
| 119     | 33.2  | 25.8  | 38.8  |



#64  
Tetrachloroethene  
Concen: 0.650 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 128.0 | 101.1 | 151.7  |
| 129     | 77.9  | 69.4  | 104.0  |
| 131     | 61.8  | 69.8  | 104.8# |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015290.D

Acq: 16 Mar 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

RE120D2-20200309DL

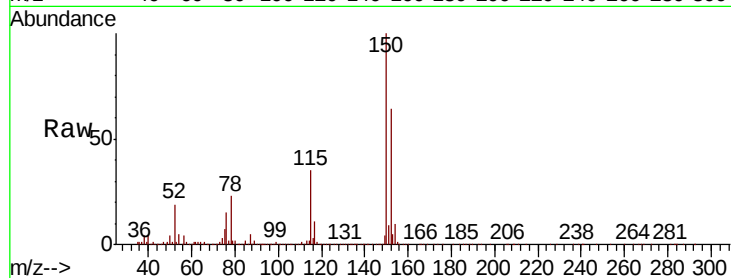
Tot Ion:152 Resp: 263208

Ion Ratio Lower Upper

152 100

115 55.6 38.2 114.6

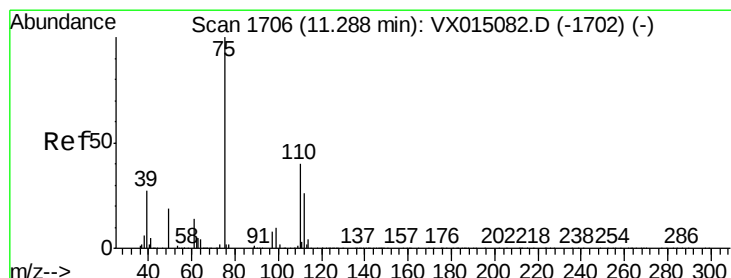
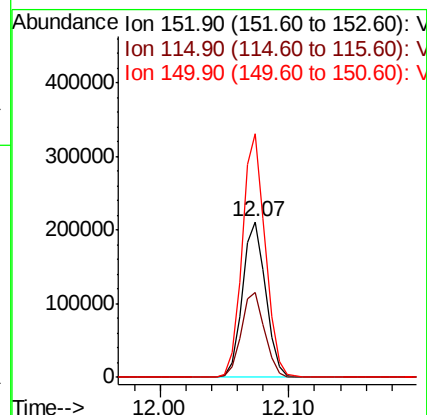
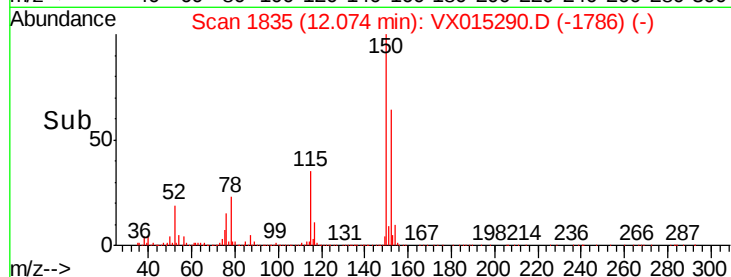
150 155.1 0.0 343.8



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: 22.071 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015290.D

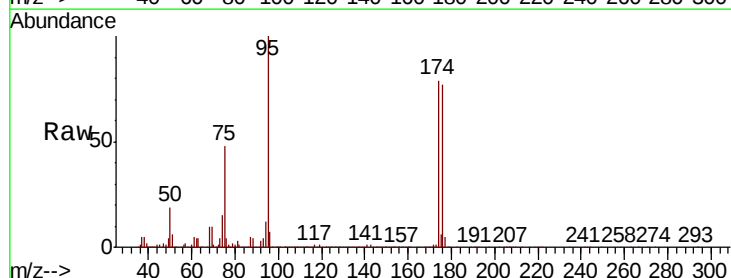
Acq: 16 Mar 2020 13:42

Tgt Ion: 75 Resp: 115875

Ion Ratio Lower Upper

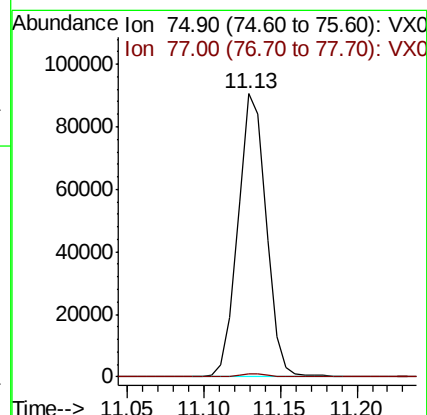
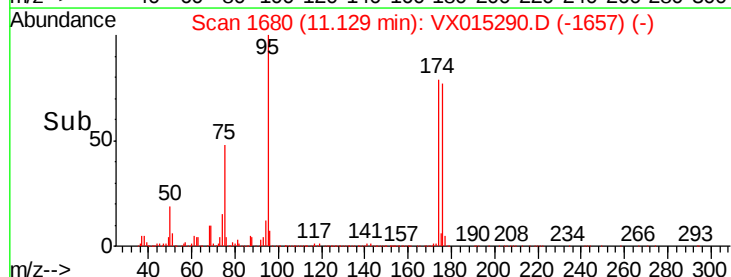
75 100

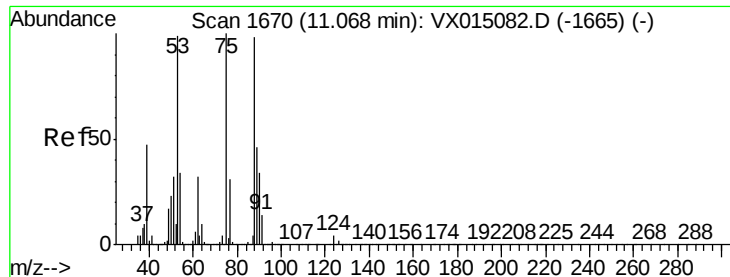
77 1.1 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

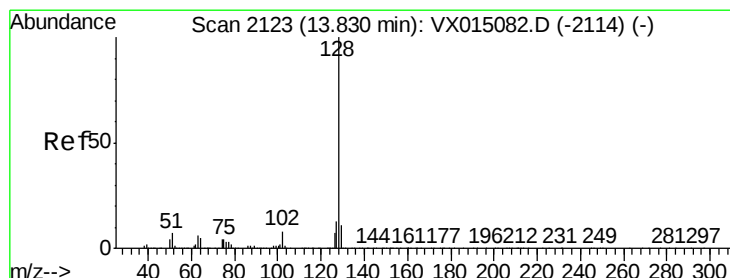
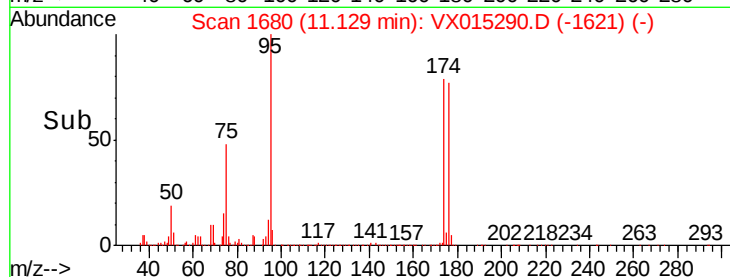
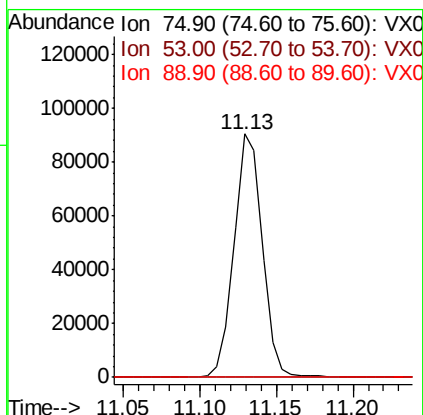
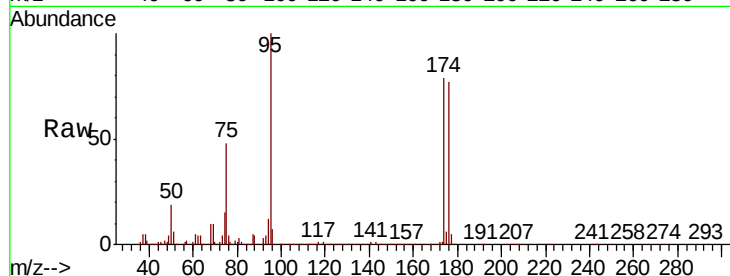




#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.636 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.06 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D2-20200309DL

Tot Ion: 75 Resp: 115875  
Ion Ratio Lower Upper  
75 100  
53 0.4 77.9 116.9#  
89 0.1 36.2 54.2#



#95  
Naphthalene  
Concen: 1.474 ug/l  
RT: 13.84 min Scan# 2124  
Delta R.T. 0.01 min  
Lab File: VX015290.D  
Acq: 16 Mar 2020 13:42

Tgt Ion: 128 Resp: 975  
Ion Ratio Lower Upper  
128 100  
127 10.5 10.3 15.5  
129 33.0 8.6 13.0#

