

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\  
 Data File : VX013573.D  
 Acq On : 23 Nov 2019 07:29  
 Operator : JC/SP  
 Sample : K5968-13 50X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 INTERCEPTOR-20191121

Quant Time: Nov 25 00:39:44 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  | 613800   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1004507  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 888279   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 397115   | 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   | 370714   | 50.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.96% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 304437   | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1203493  | 50.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.34% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 394208   | 45.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.98%  |          |

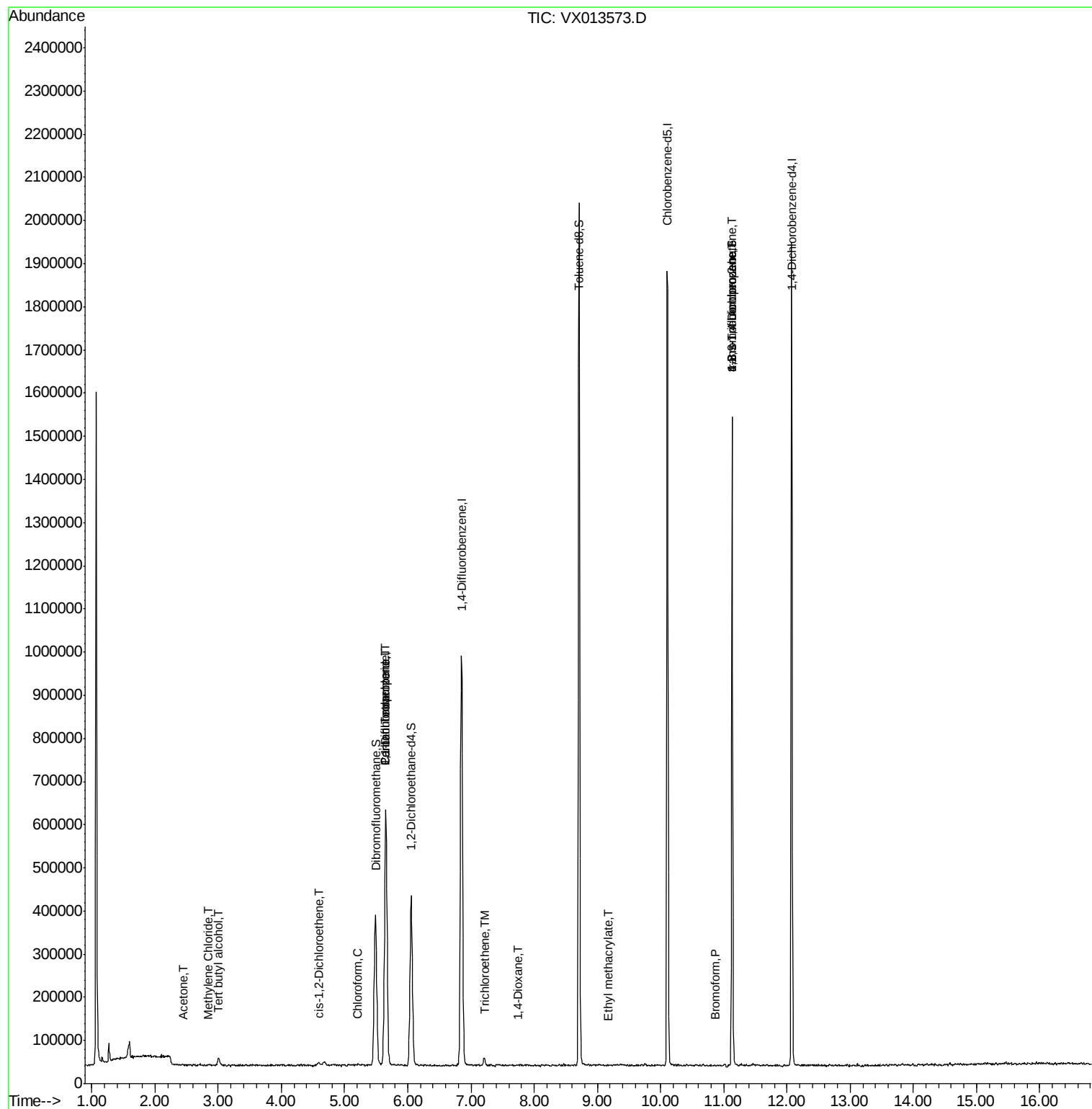
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.67  | 64   | 2361     | Below Cal | #      | 43     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 11775    | 6.144     | ug/l # | 82     |
| 16) Acetone                    | 2.45  | 43   | 1360     | 0.375     | ug/l # | 44     |
| 20) Methylene Chloride         | 2.84  | 84   | 2711     | 0.405     | ug/l # | 62     |
| 27) cis-1,2-Dichloroethene     | 4.58  | 96   | 4616     | 0.672     | ug/l   | 77     |
| 30) Chloroform                 | 5.21  | 83   | 5373     | 0.492     | ug/l # | 69     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 40846    | 4.740     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 52763    | 6.261     | ug/l # | 17     |
| 44) Trichloroethene            | 7.22  | 130  | 8610     | 1.165     | ug/l   | 96     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 210      | 1.108     | ug/l # | 1      |
| 56) Ethyl methacrylate         | 9.17  | 69   | 316      | 1.589     | ug/l # | 1      |
| 71) Bromoform                  | 10.85 | 173  | 209      | 3.235     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 192548   | 23.872    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 192548   | 61.445    | ug/l # | 9      |

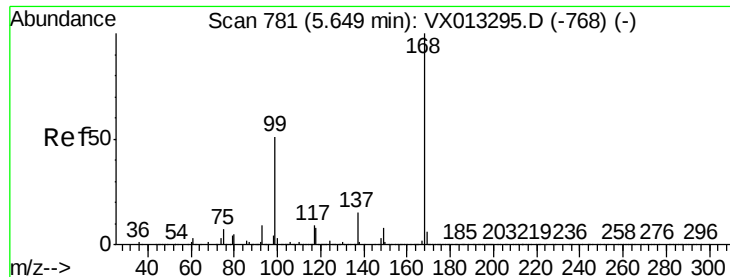
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112219\  
Data File : VX013573.D  
Acq On : 23 Nov 2019 07:29  
Operator : JC/SP  
Sample : K5968-13 50X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 57 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
INTERCEPTOR-20191121

Quant Time: Nov 25 00:39:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
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# 782

Delta R.T. 0.01 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

MSVOA\_X

ClientSampleId :

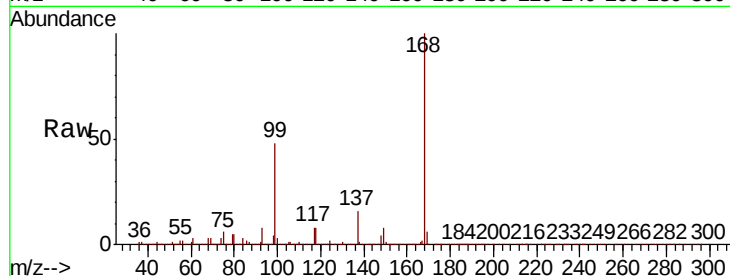
INTERCEPTOR-20191121

Tot Ion:168 Resp: 613800

Ion Ratio Lower Upper

168 100

99 47.5 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

250000

200000

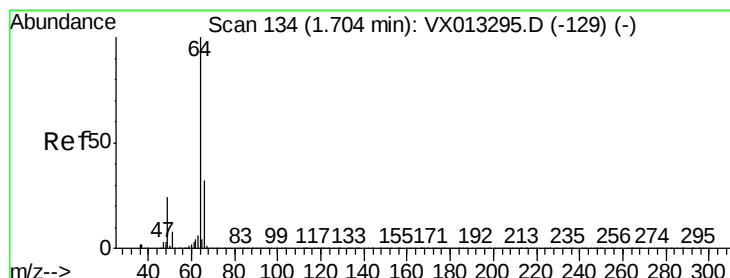
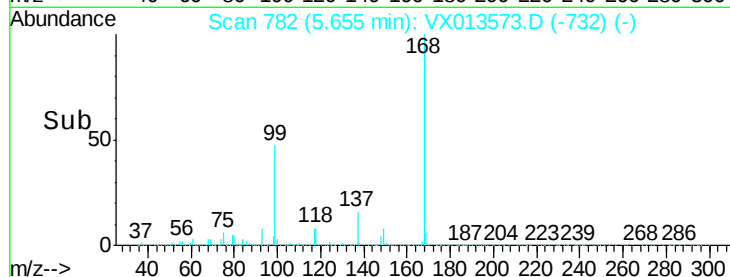
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 128

Delta R.T. -0.04 min

Lab File: VX013573.D

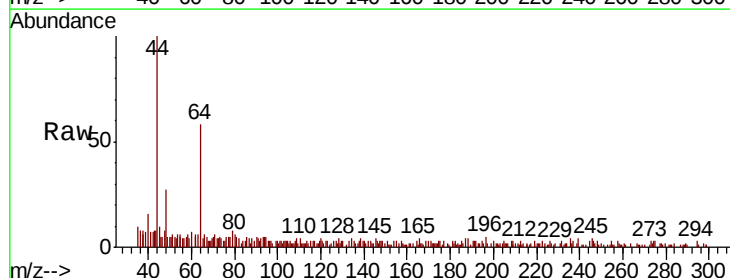
Acq: 23 Nov 2019 07:29

Tgt Ion: 64 Resp: 2361

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

4000

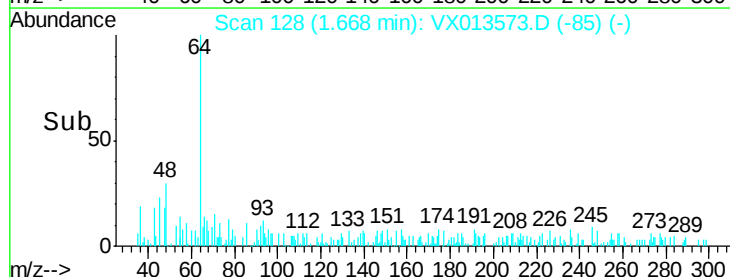
3000

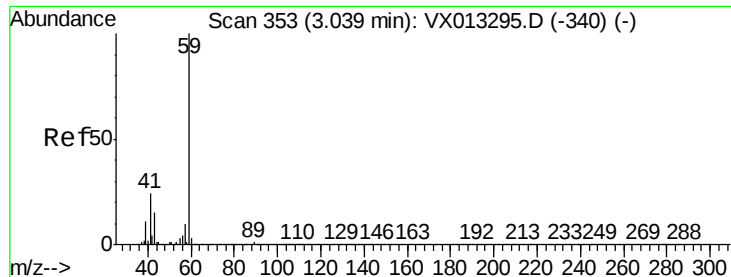
2000

1000

0

Time-->



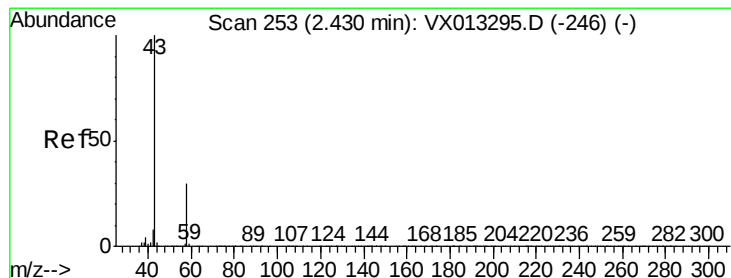
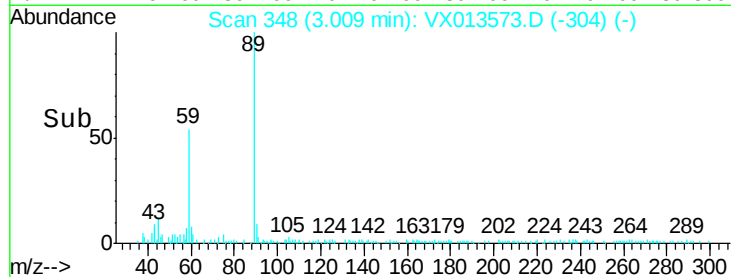
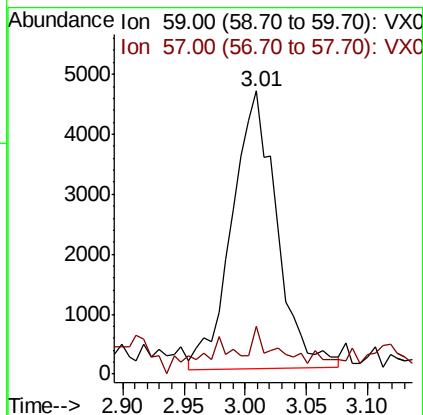
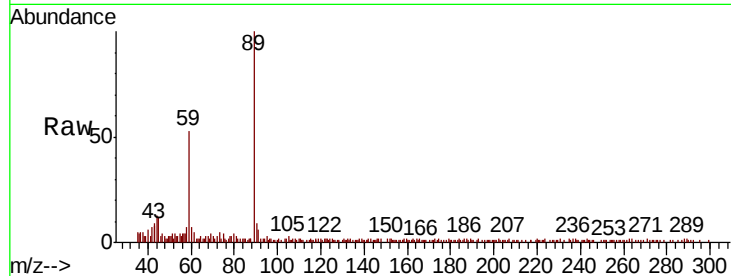


#11

Tert butyl alcohol  
 Concen: 6.144 ug/l  
 RT: 3.01 min Scan# 348  
 Delta R.T. -0.03 min  
 Lab File: VX013573.D  
 Acq: 23 Nov 2019 07:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 INTERCEPTOR-20191121

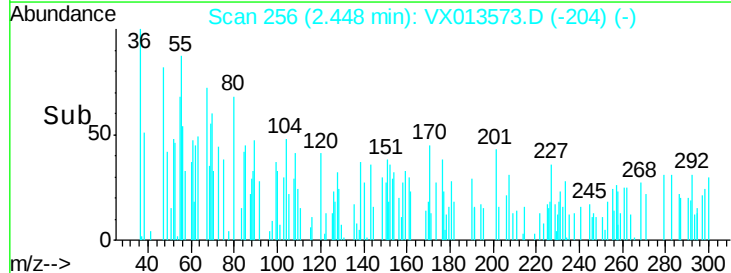
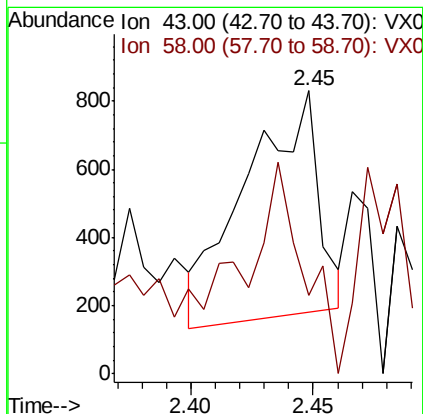
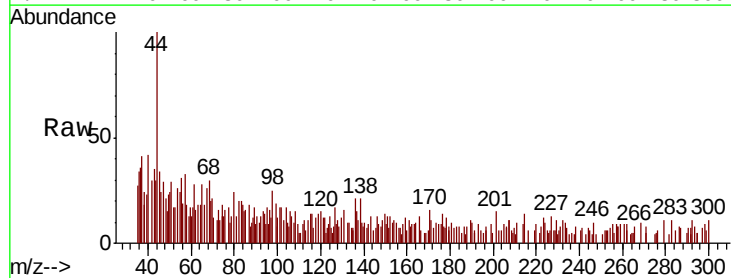
Tot Ion: 59 Resp: 11775  
 Ion Ratio Lower Upper  
 59 100  
 57 3.3 8.0 12.0#

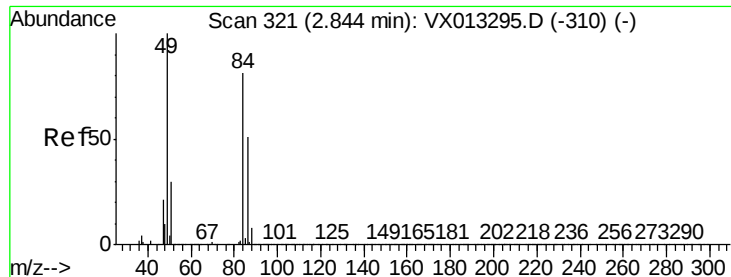


#16

Acetone  
 Concen: 0.375 ug/l  
 RT: 2.45 min Scan# 256  
 Delta R.T. 0.02 min  
 Lab File: VX013573.D  
 Acq: 23 Nov 2019 07:29

Tgt Ion: 43 Resp: 1360  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 24.3 36.5#



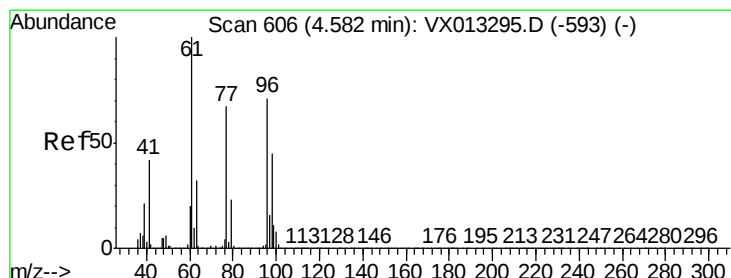
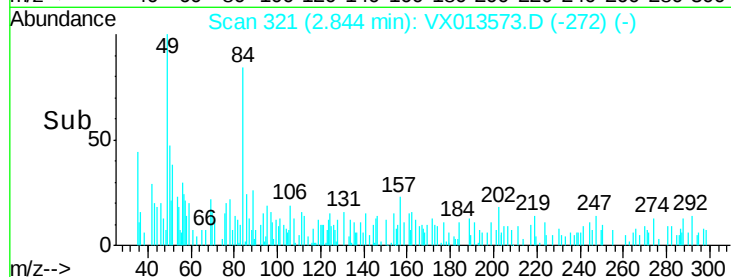
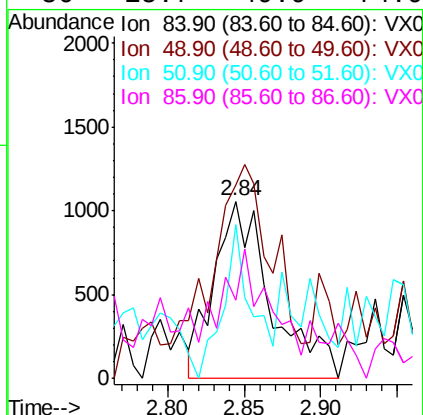
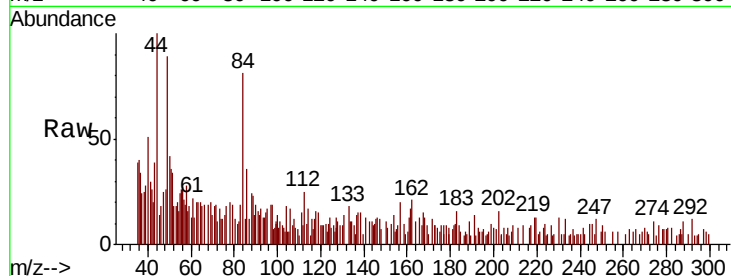


#20  
Methvlene Chloride  
Concen: 0.405 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. 0.00 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
INTERCEPTOR-20191121

Tot Ion: 84 Resp: 2711

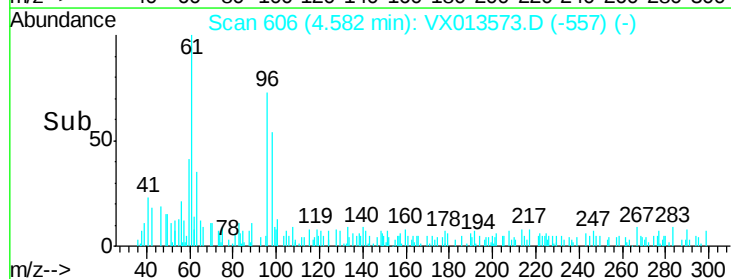
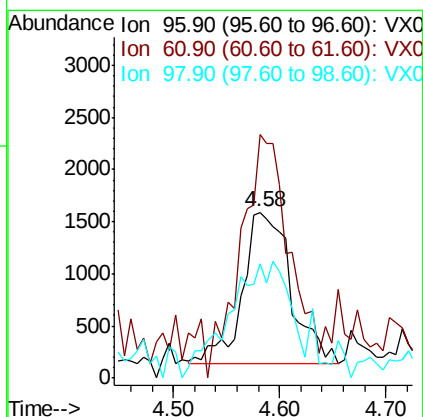
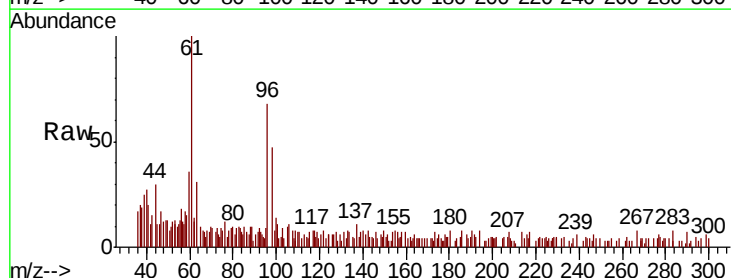
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 107.1 | 98.2  | 147.4 |
| 51  | 86.7  | 29.9  | 44.9# |
| 86  | 15.7  | 49.9  | 74.9# |

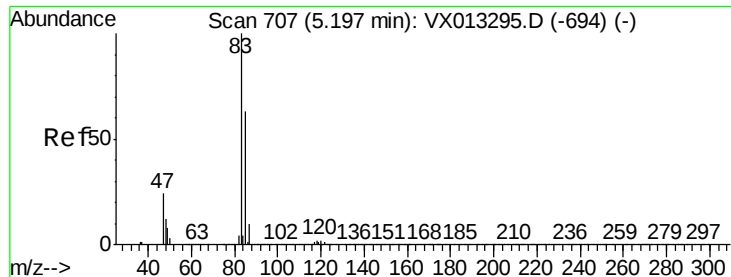


#27  
cis-1,2-Dichloroethene  
Concen: 0.672 ug/l  
RT: 4.58 min Scan# 606  
Delta R.T. 0.00 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

Tgt Ion: 96 Resp: 4616

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 162.5 | 0.0   | 288.0 |
| 98  | 96.2  | 0.0   | 129.6 |

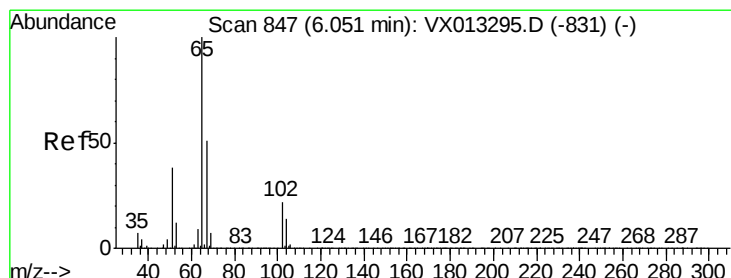
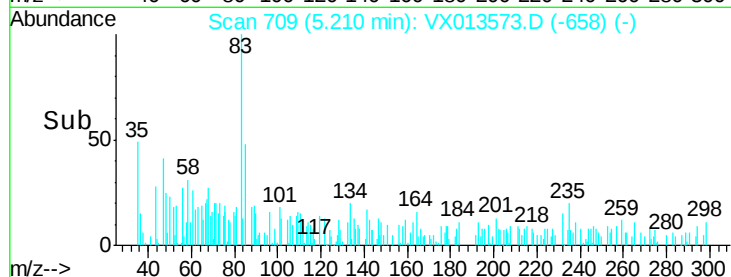
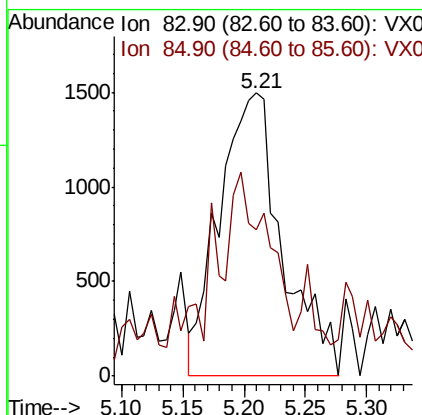
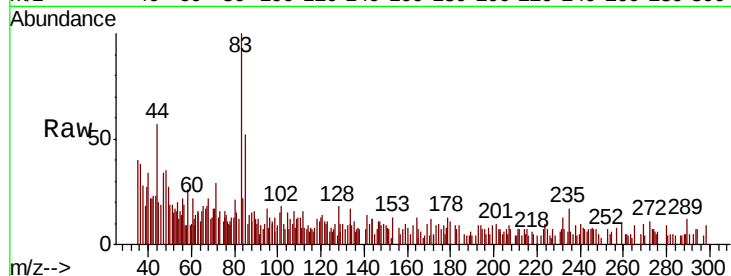




#30  
Chloroform  
Concen: 0.492 ug/l  
RT: 5.21 min Scan# 709  
Delta R.T. 0.01 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

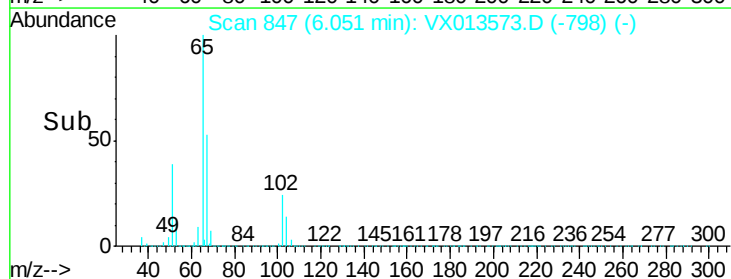
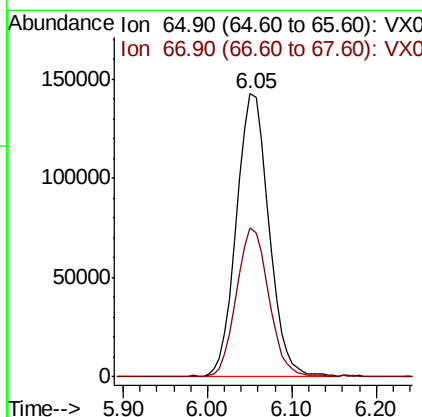
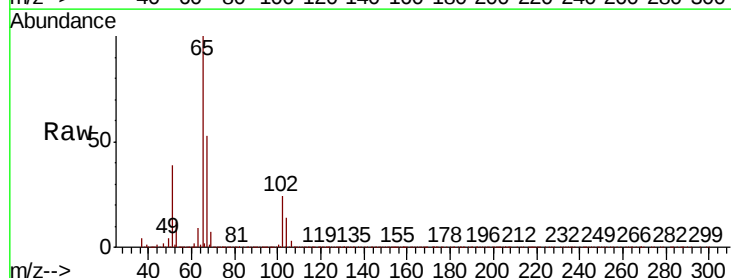
Instrument :  
MSVOA\_X  
ClientSampleId :  
INTERCEPTOR-20191121

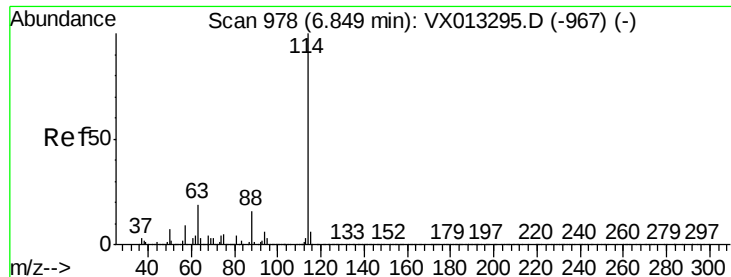
Tot Ion: 83 Resp: 5373  
Ion Ratio Lower Upper  
83 100  
85 39.0 50.2 75.4#



#33  
1,2-Dichloroethane-d4  
Concen: 50.980 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

Tgt Ion: 65 Resp: 370714  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

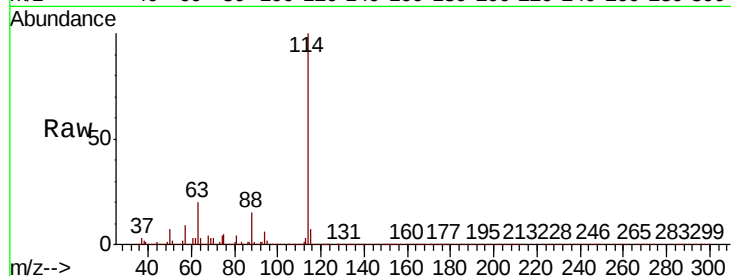
MSVOA\_X

ClientSampleId :

INTERCEPTOR-20191121

Tot Ion:114 Resp: 1004507

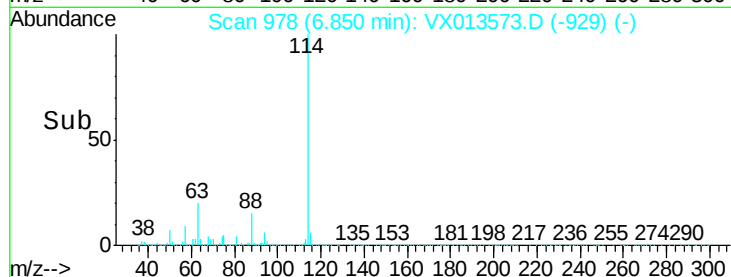
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 20.2  | 0.0   | 38.4  |
| 88  | 15.4  | 0.0   | 32.2  |



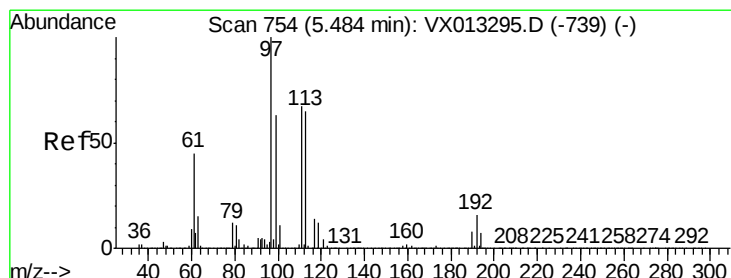
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



Time-->



#35

Dibromofluoromethane

Concen: 48.320 ug/l

RT: 5.48 min Scan# 754

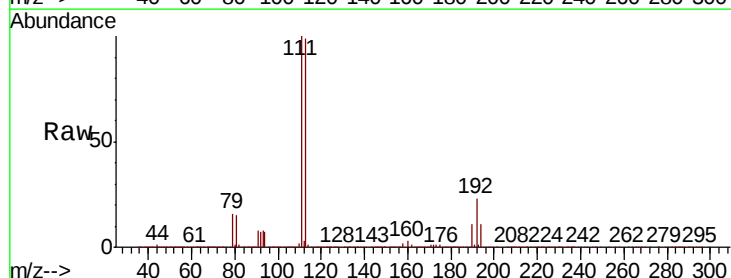
Delta R.T. 0.00 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Tgt Ion:113 Resp: 304437

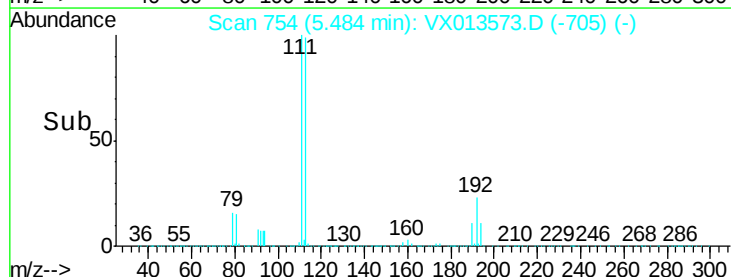
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.5 | 81.9  | 122.9 |
| 192 | 23.6  | 19.1  | 28.7  |



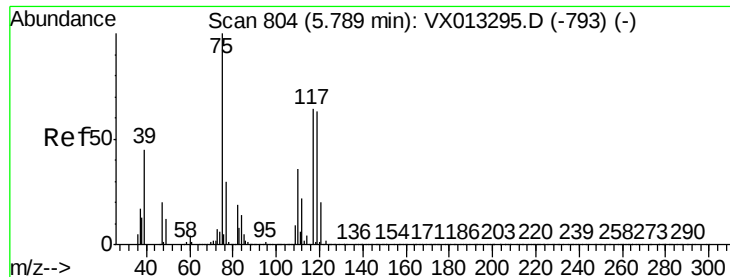
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->



#36

1,1-Dichloropropene

Concen: 4.740 ug/l

RT: 5.65 min Scan# 781

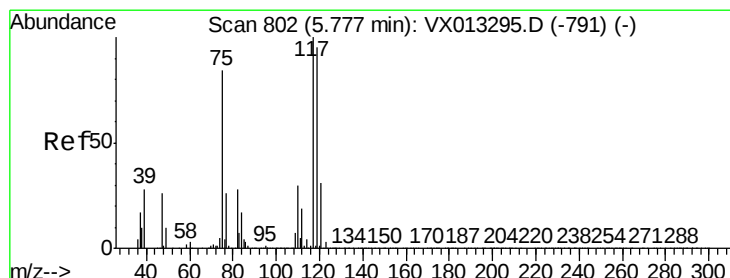
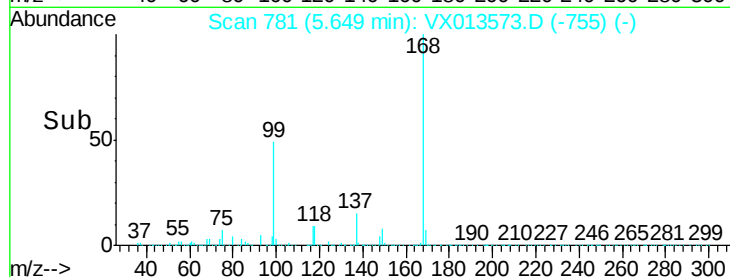
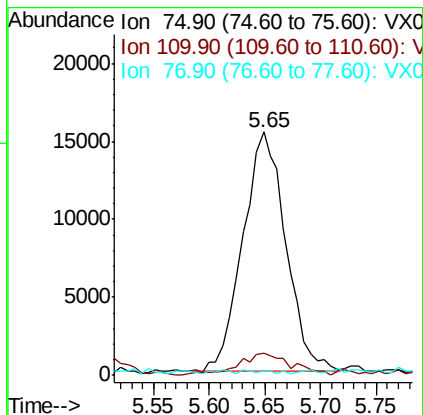
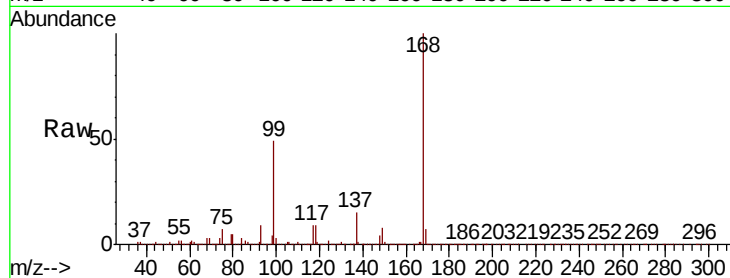
Delta R.T. -0.14 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
INTERCEPTOR-20191121

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 40846 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.8  | 18.1  | 54.1# |
| 77       | 0.3   | 25.0  | 37.4# |



#38

Carbon Tetrachloride

Concen: 6.261 ug/l

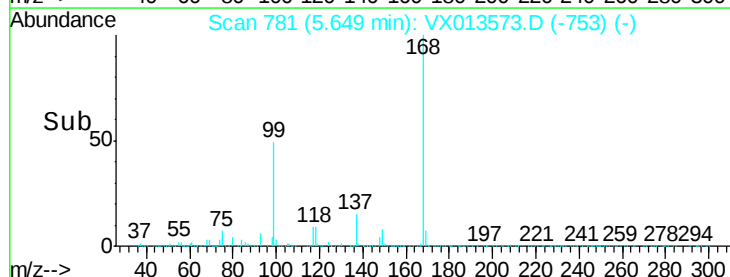
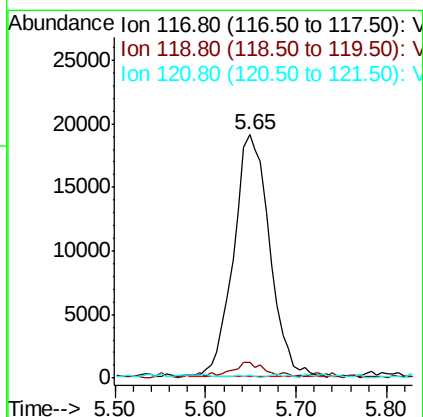
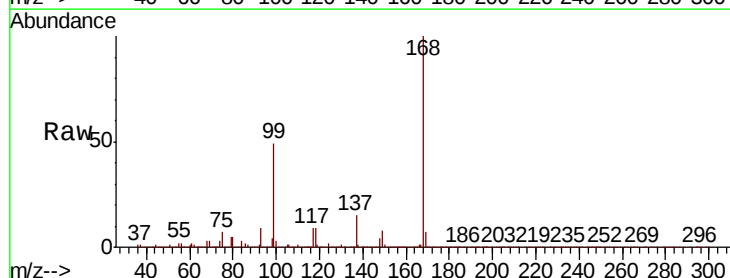
RT: 5.65 min Scan# 781

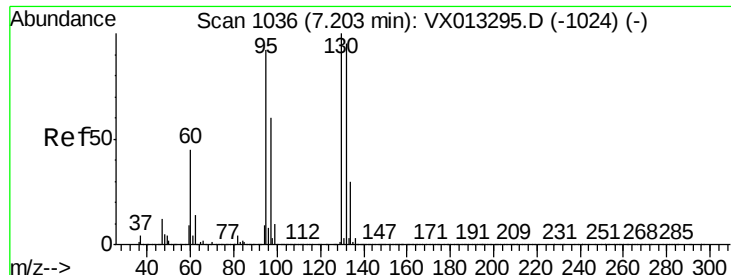
Delta R.T. -0.13 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 52763  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.8   | 76.1  | 114.1# |
| 121      | 0.0   | 24.6  | 37.0#  |





#44

Trichloroethene

Concen: 1.165 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

MSVOA\_X

ClientSampleId :

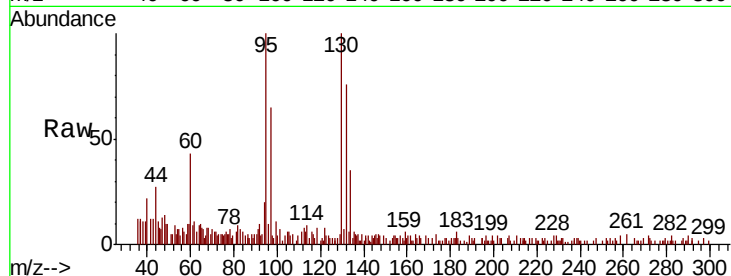
INTERCEPTOR-20191121

Tot Ion:130 Resp: 8610

Ion Ratio Lower Upper

130 100

95 96.0 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

4000

3000

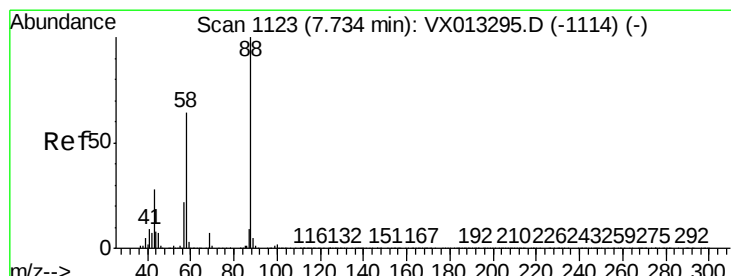
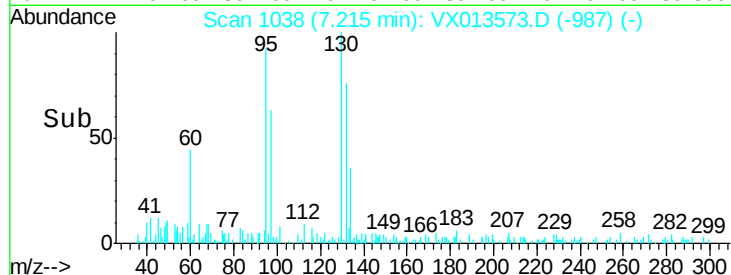
2000

1000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 1.108 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

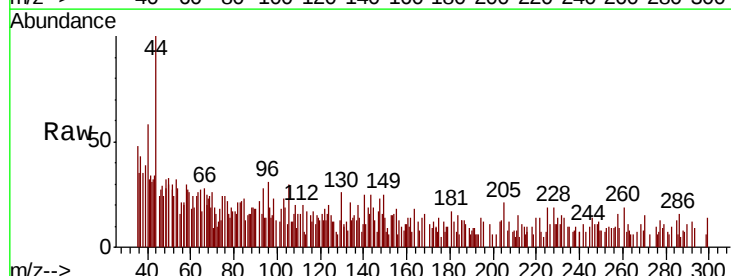
Tgt Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 305.7 26.6 39.8#

58 0.0 55.0 82.6#



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

800

600

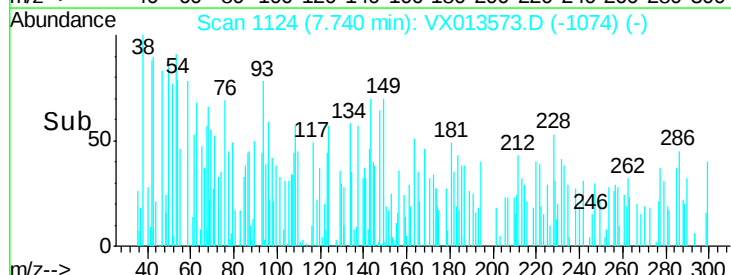
400

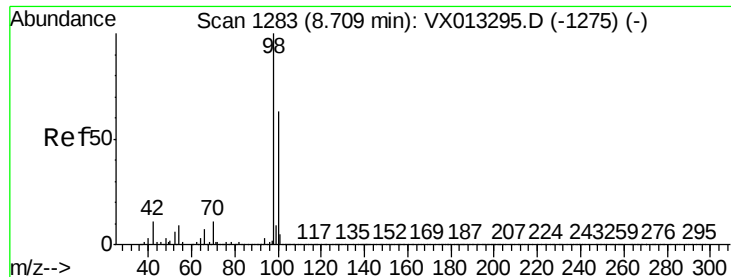
200

0

7.72 7.74 7.76

Time-->





#50

Toluene-d8

Concen: 50.669 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

MSVOA\_X

ClientSampleId :

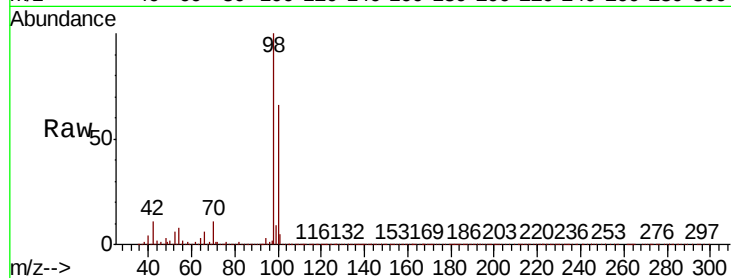
INTERCEPTOR-20191121

Tot Ion: 98 Resp: 1203493

Ion Ratio Lower Upper

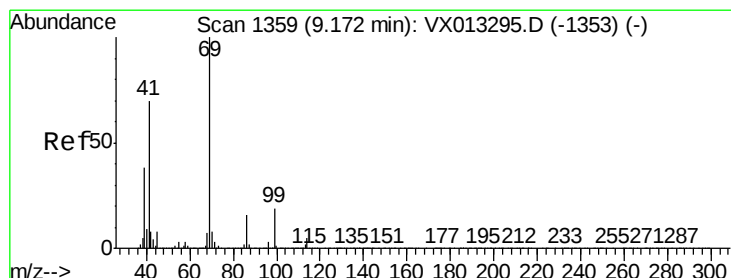
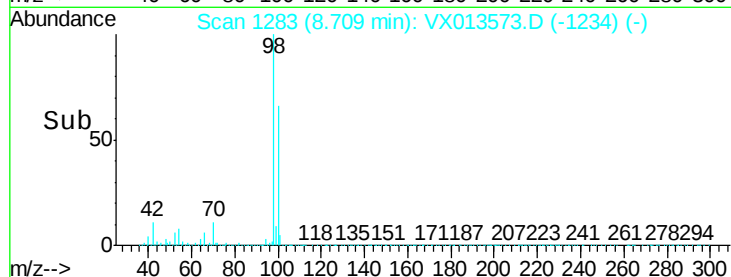
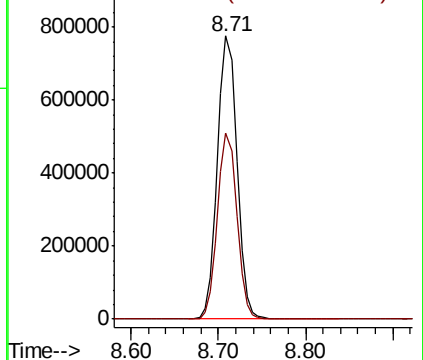
98 100

100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#56

Ethyl methacrylate

Concen: 1.589 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

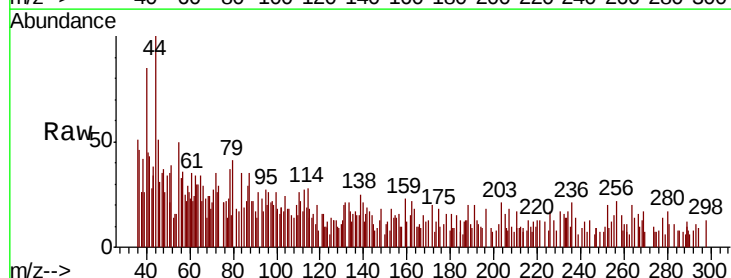
Tgt Ion: 69 Resp: 316

Ion Ratio Lower Upper

69 100

41 220.3 56.2 84.2#

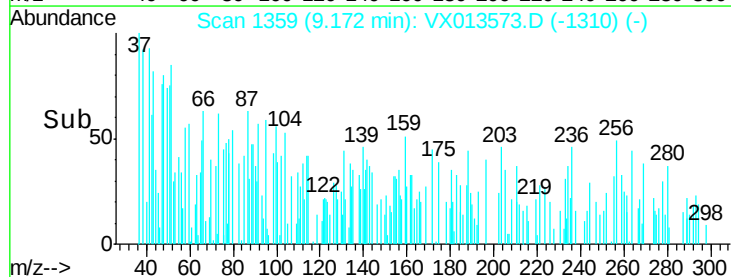
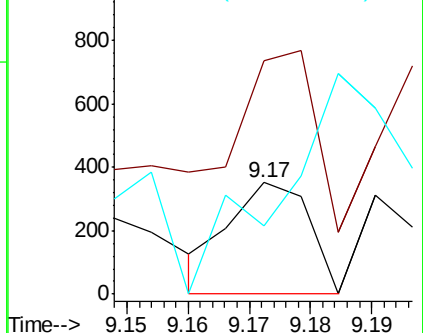
39 504.4 31.1 46.7#

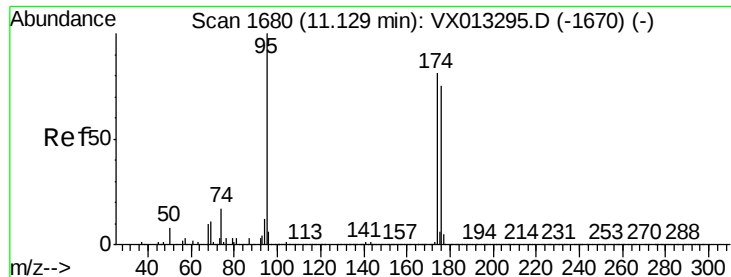


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.987 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

MSVOA\_X

ClientSampleId :

INTERCEPTOR-20191121

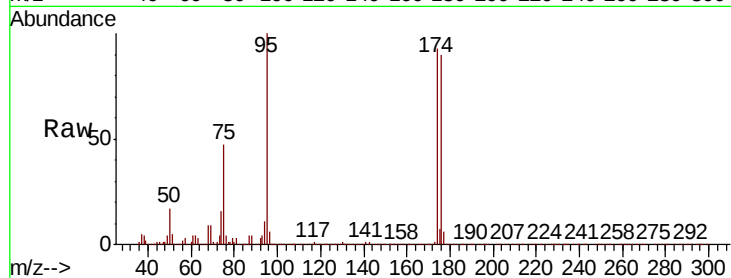
Tot Ion: 95 Resp: 394208

Ion Ratio Lower Upper

95 100

174 89.3 0.0 179.8

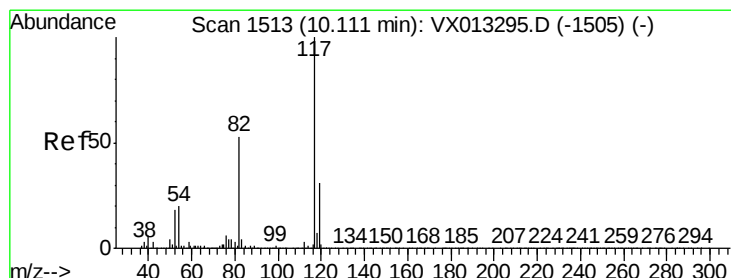
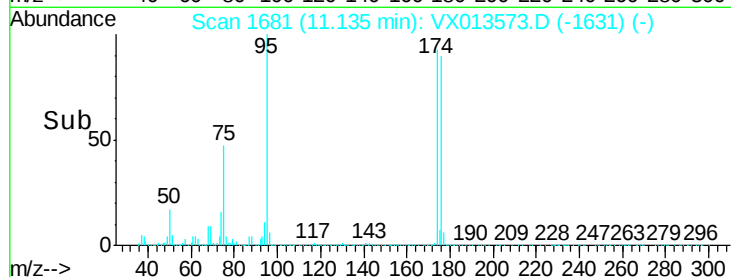
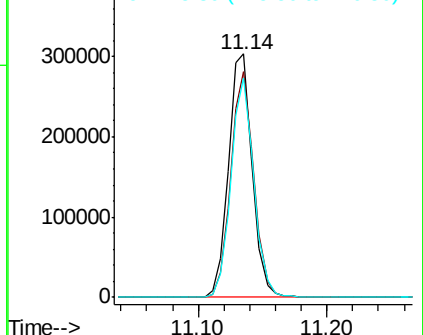
176 86.5 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

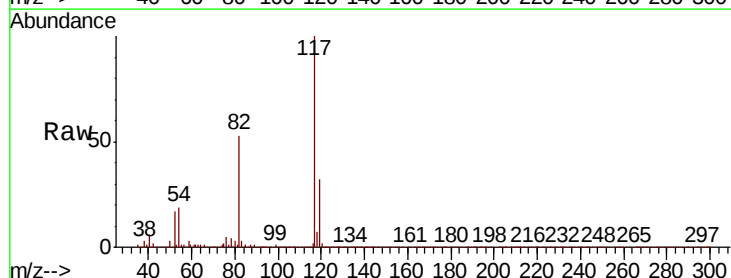
Tgt Ion: 117 Resp: 888279

Ion Ratio Lower Upper

117 100

82 52.5 42.6 64.0

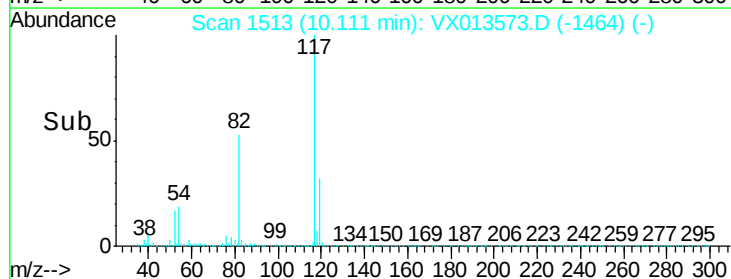
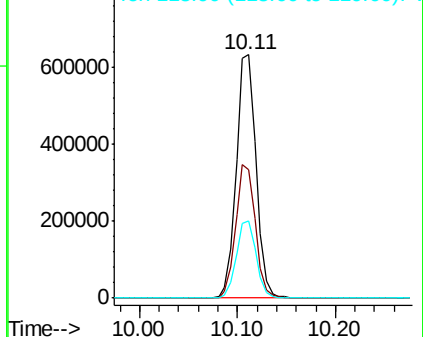
119 31.6 24.8 37.2

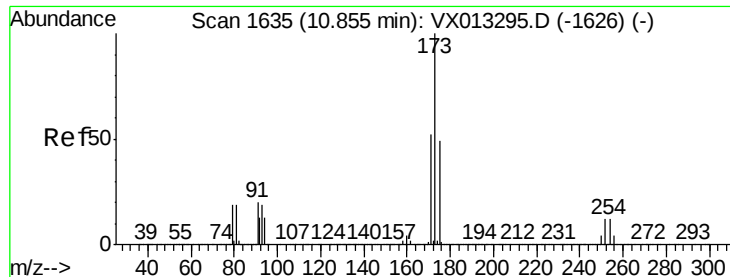


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

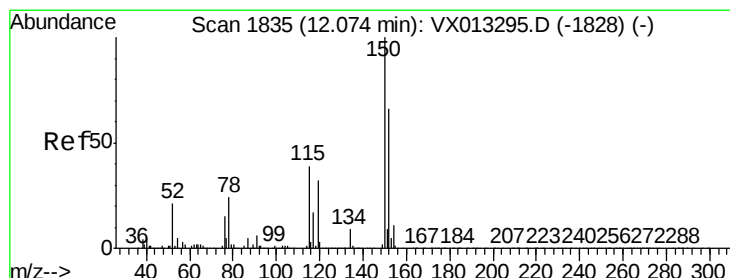
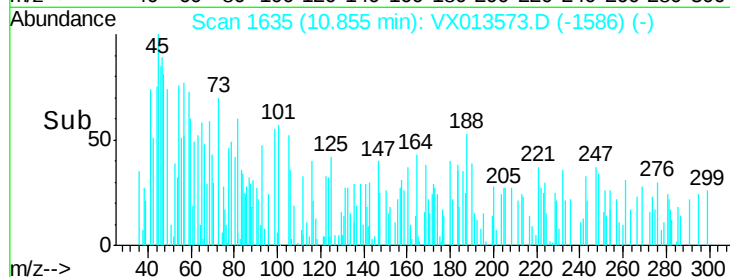
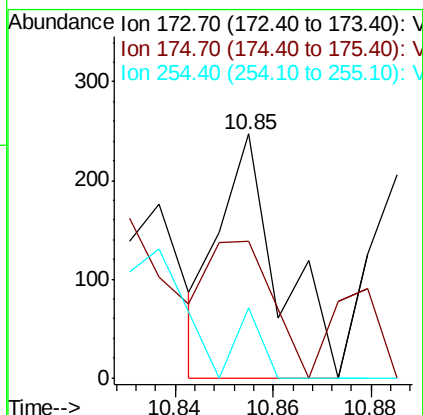
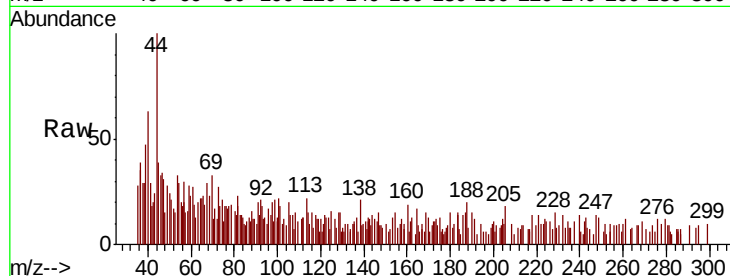




#71  
Bromoform  
Concen: 3.235 ug/l  
RT: 10.85 min Scan# 1635  
Delta R.T. 0.00 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

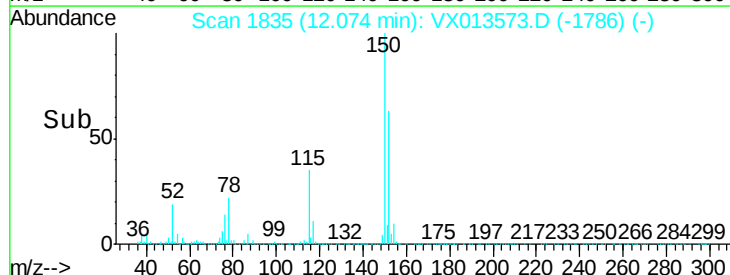
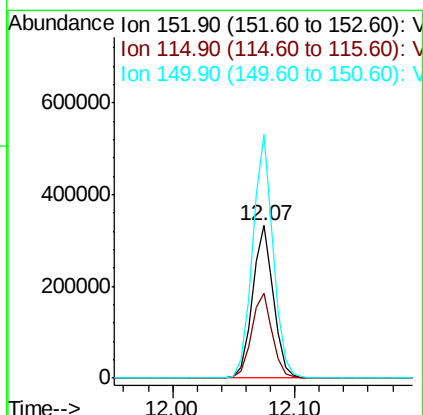
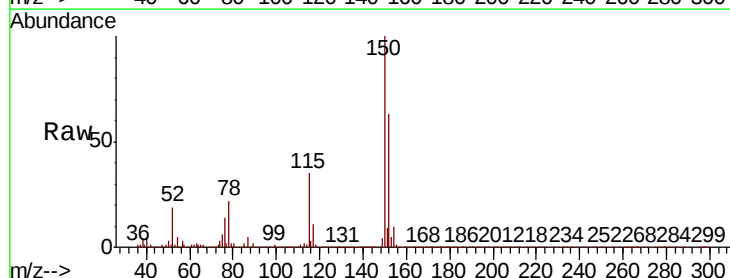
Instrument :  
MSVOA\_X  
ClientSampleId :  
INTERCEPTOR-20191121

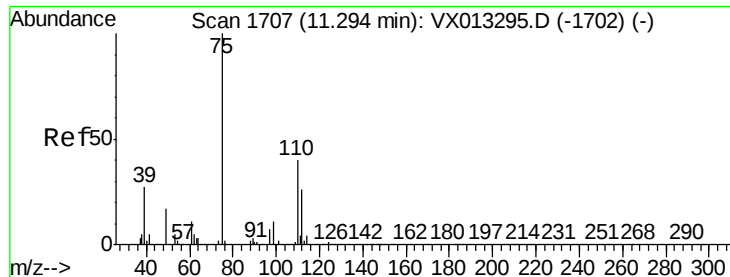
Tot Ion:173 Resp: 209  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.8 74.4#  
254 65.6 0.2 0.2#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX013573.D  
Acq: 23 Nov 2019 07:29

Tgt Ion:152 Resp: 397115  
Ion Ratio Lower Upper  
152 100  
115 54.8 39.5 118.3  
150 157.0 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 23.872 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

Instrument :

MSVOA\_X

ClientSampleId :

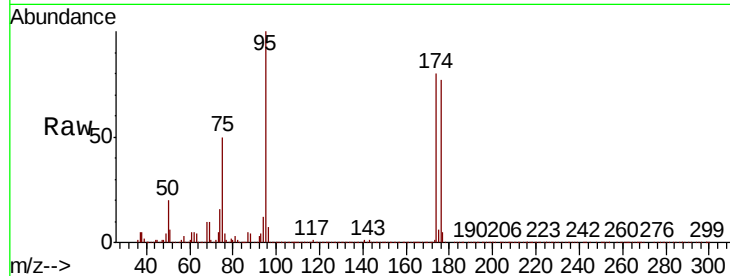
INTERCEPTOR-20191121

Tot Ion: 75 Resp: 192548

Ion Ratio Lower Upper

75 100

77 1.1 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

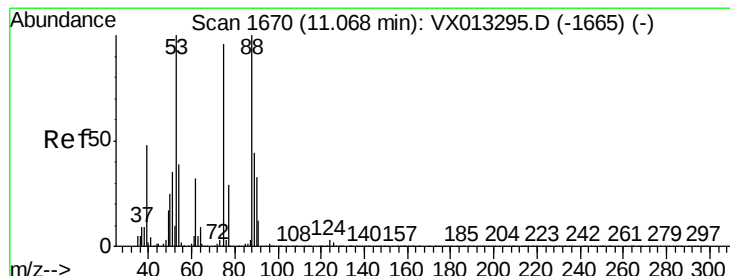
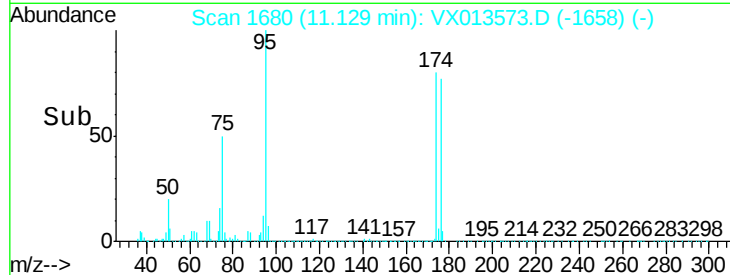
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.445 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013573.D

Acq: 23 Nov 2019 07:29

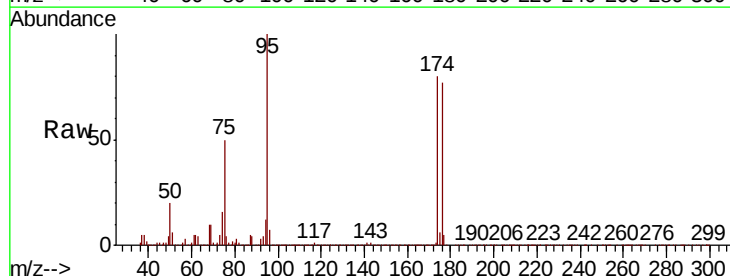
Tgt Ion: 75 Resp: 192548

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 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

11.13

200000

150000

100000

50000

0

Time-->

