

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX083119\  
 Data File : VX011956.D  
 Acq On : 31 Aug 2019 17:43  
 Operator : SY/SP  
 Sample : K4526-03  
 Misc : 3.14g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-D-(0)

Quant Time: Sep 01 01:51:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 424905   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 548713   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 480841   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 258567   | 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   | 169564   | 41.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.30% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 157405   | 44.74 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.48% |          |
| 50) Toluene-d8              | 8.71  | 98   | 618746   | 49.19 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.38% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 230740   | 41.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.64% |          |

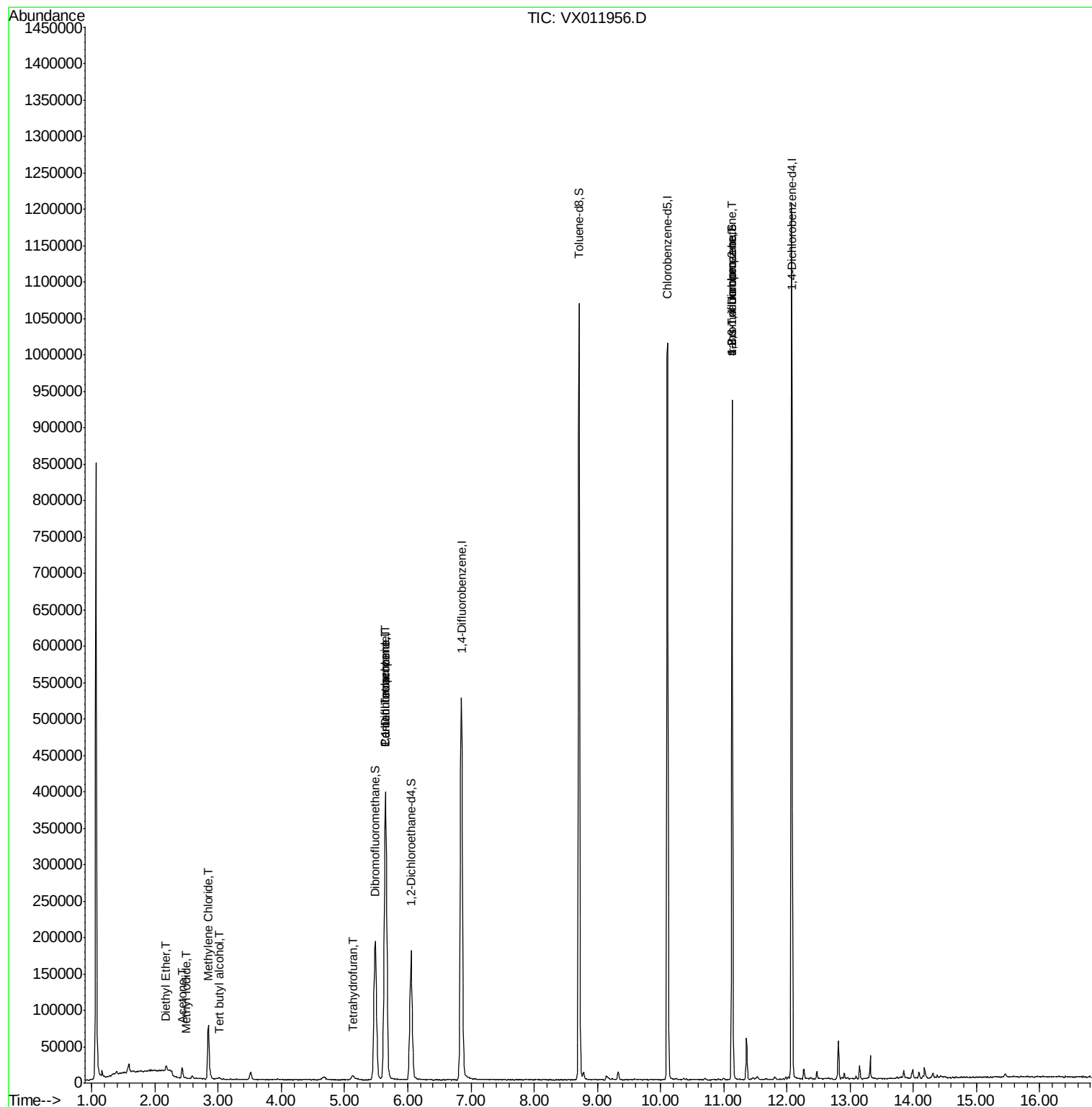
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 2.17  | 74   | 2590     | 1.529   | ug/l   | 93     |
| 10) Methyl Iodide              | 2.50  | 142  | 203      | 3.730   | ug/l # | 73     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1963     | 5.012   | ug/l # | 76     |
| 16) Acetone                    | 2.43  | 43   | 14973    | 17.094  | ug/l   | 99     |
| 20) Methylene Chloride         | 2.84  | 84   | 35349    | 5.043   | ug/l   | 97     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 6250     | 7.849   | ug/l   | 95     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 25545    | 5.876   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 36108    | 7.162   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 113855   | 44.763  | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 113855   | 112.451 | ug/l # | 11     |

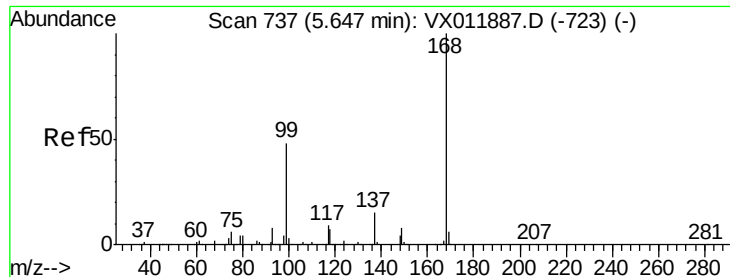
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX083119\  
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MSVOA\_X  
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T9-12-13-D-(0)

Quant Time: Sep 01 01:51:56 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 30 01:59:05 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: VX011956.D

Acq: 31 Aug 2019 17:43

Instrument :

MSVOA\_X

ClientSampleId :

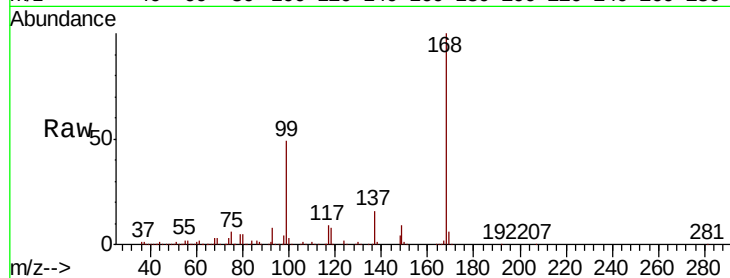
T9-12-13-D-(0)

Tgt Ion:168 Resp: 424905

Ion Ratio Lower Upper

168 100

99 48.9 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

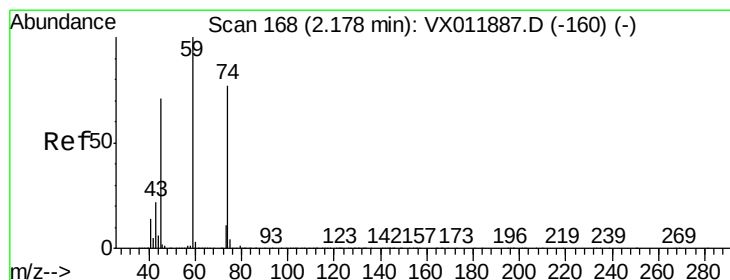
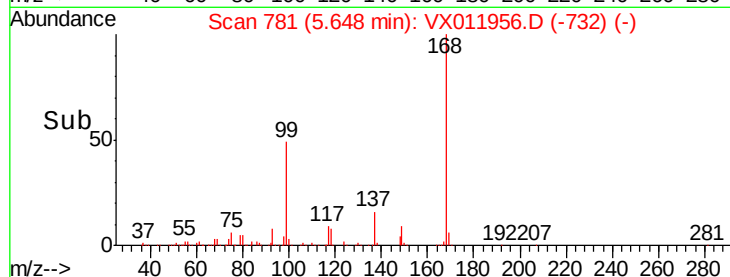
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 1.529 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX011956.D

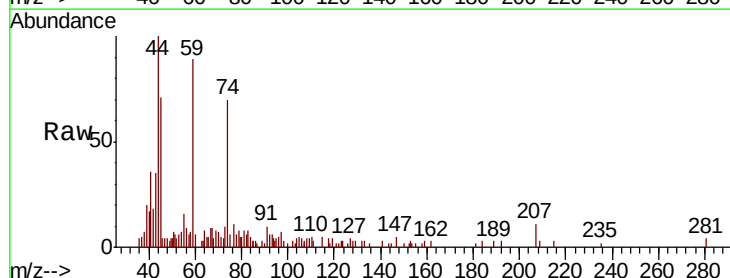
Acq: 31 Aug 2019 17:43

Tgt Ion: 74 Resp: 2590

Ion Ratio Lower Upper

74 100

45 86.7 46.7 140.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2000

1500

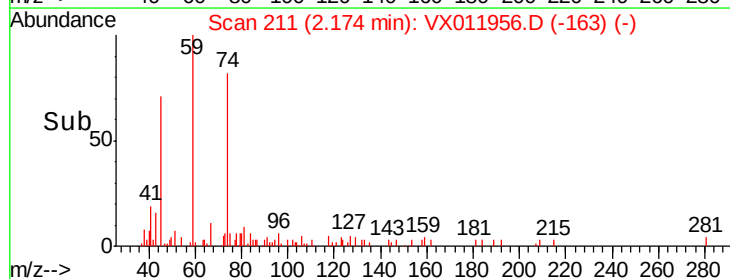
1000

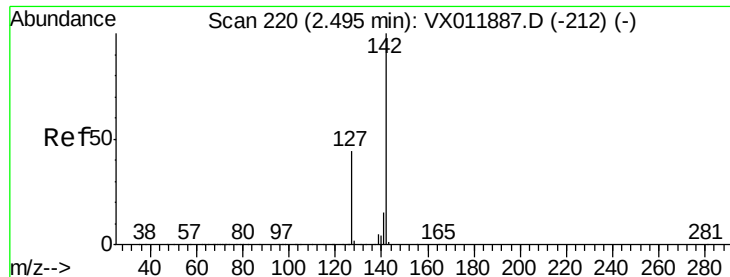
500

0

2.10 2.15 2.20

Time-->

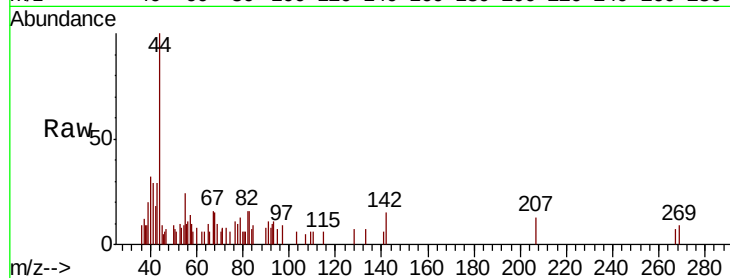




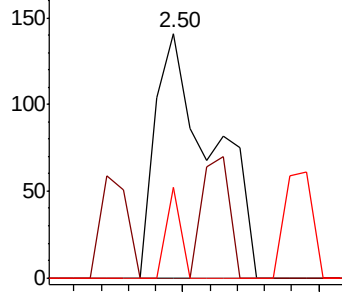
#10  
Methyl Iodide  
Concen: 3.730 ug/l  
RT: 2.50 min Scan# 264  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-D-(0)

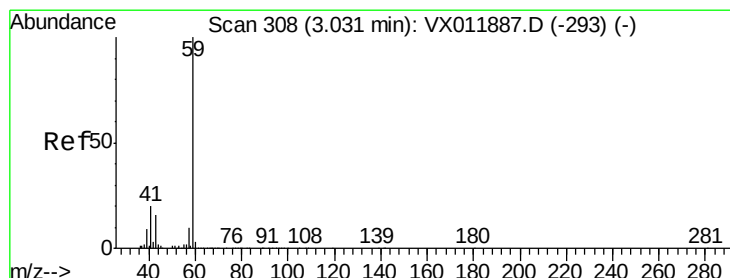
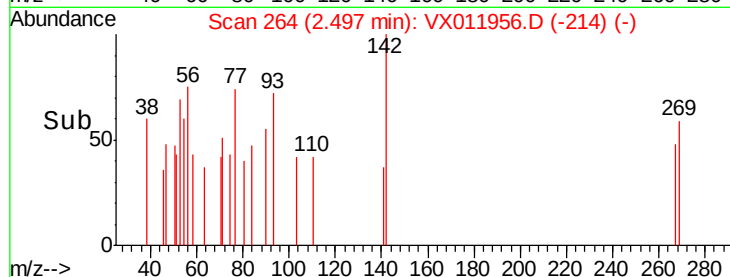
Tgt Ion:142 Resp: 203  
Ion Ratio Lower Upper  
142 100  
127 24.1 35.7 53.5#  
141 9.4 11.8 17.6#



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

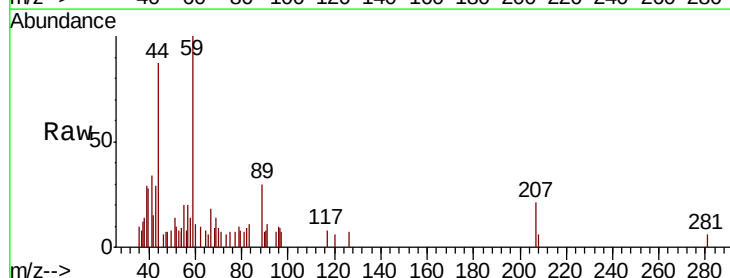


Time-->

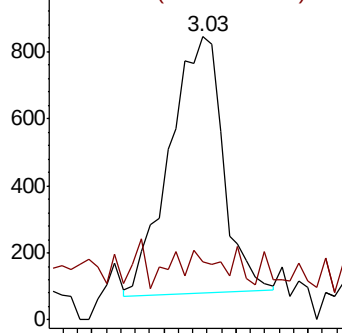


#11  
Tert butyl alcohol  
Concen: 5.012 ug/l  
RT: 3.03 min Scan# 351  
Delta R.T. -0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

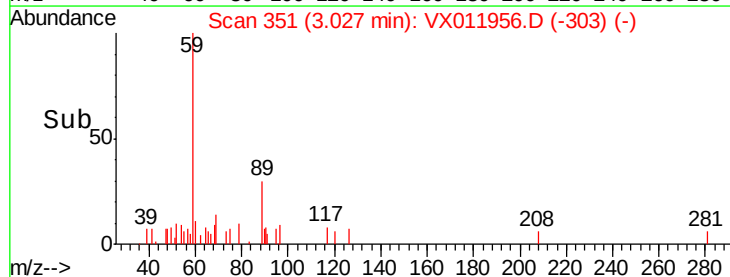
Tgt Ion: 59 Resp: 1963  
Ion Ratio Lower Upper  
59 100  
57 1.5 8.6 12.8#

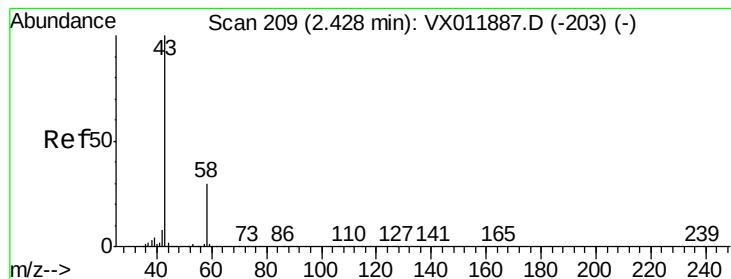


Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0



Time-->





#16

Acetone

Concen: 17.094 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

Instrument :

MSVOA\_X

ClientSampleId :

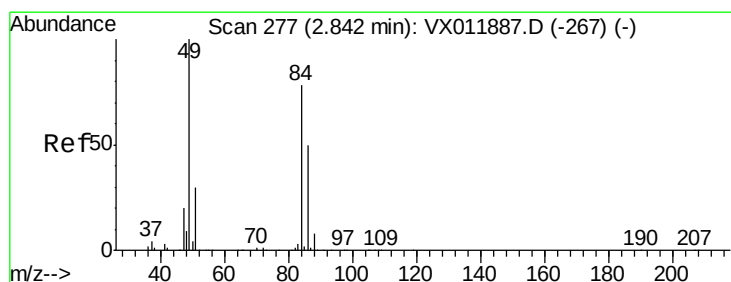
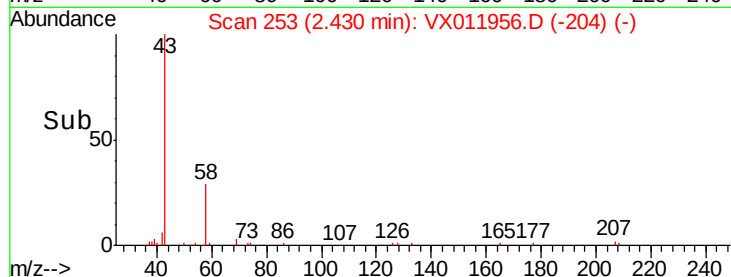
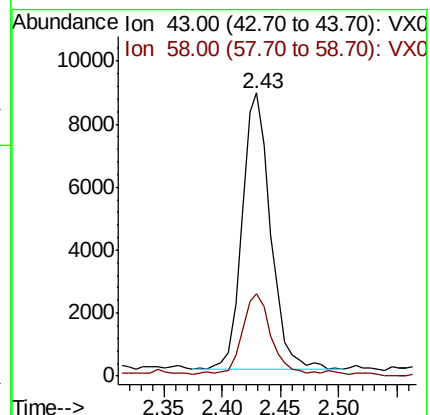
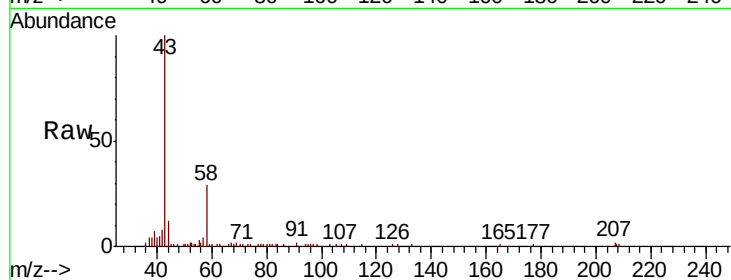
T9-12-13-D-(0)

Tgt Ion: 43 Resp: 14973

Ion Ratio Lower Upper

43 100

58 29.4 23.8 35.8



#20

Methylene Chloride

Concen: 5.043 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

Tgt Ion: 84 Resp: 35349

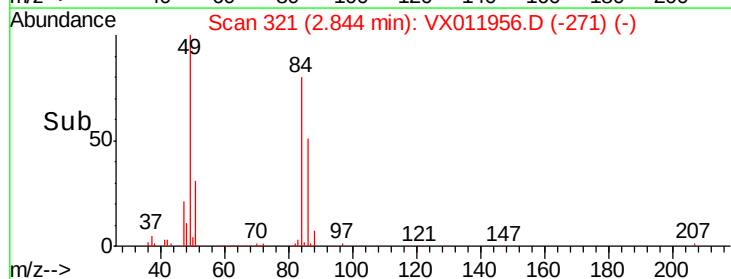
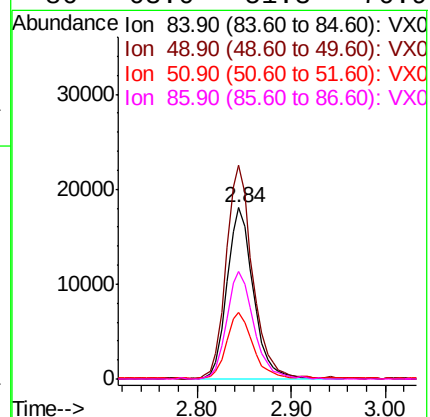
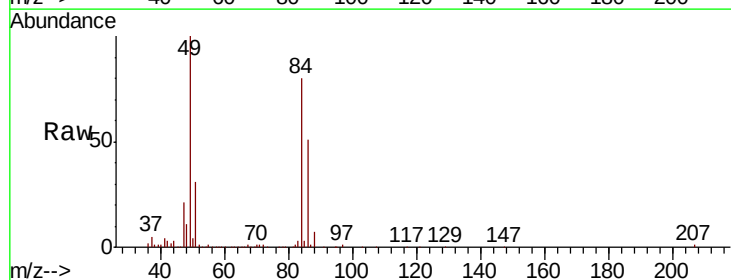
Ion Ratio Lower Upper

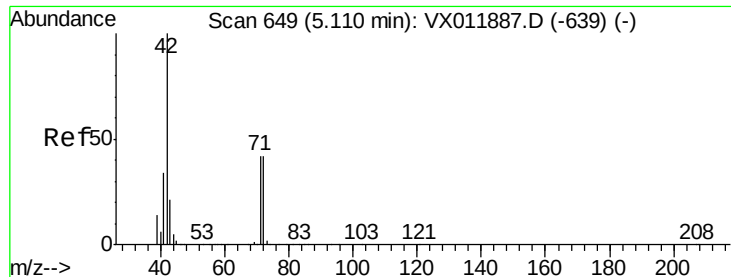
84 100

49 124.2 103.0 154.4

51 38.5 30.8 46.2

86 63.0 51.3 76.9

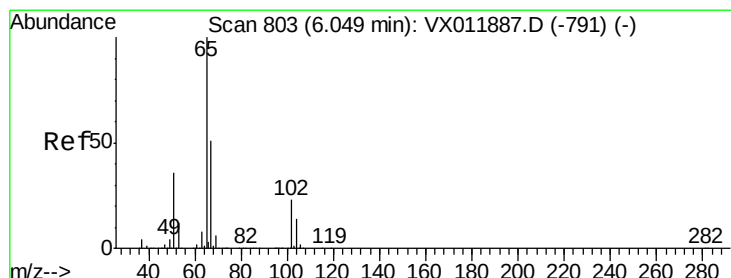
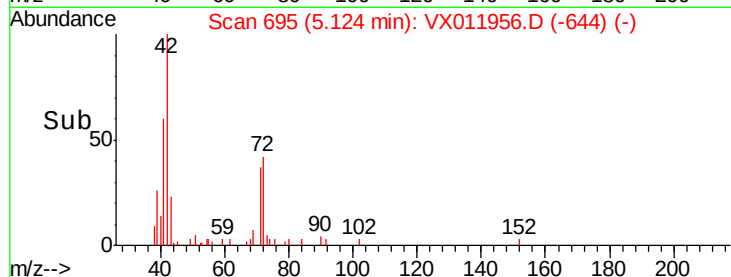
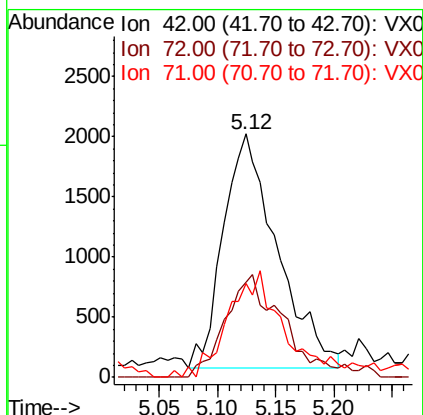
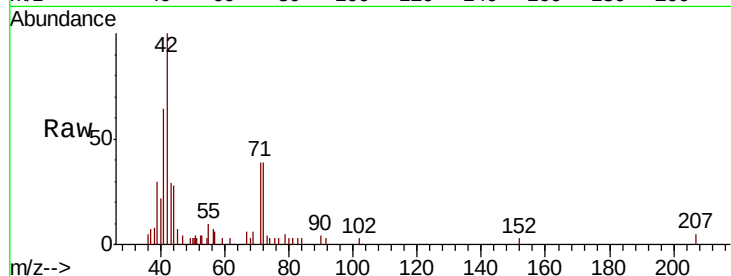




#29  
Tetrahydrofuran  
Concen: 7.849 ug/l  
RT: 5.12 min Scan# 695  
Delta R.T. 0.01 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

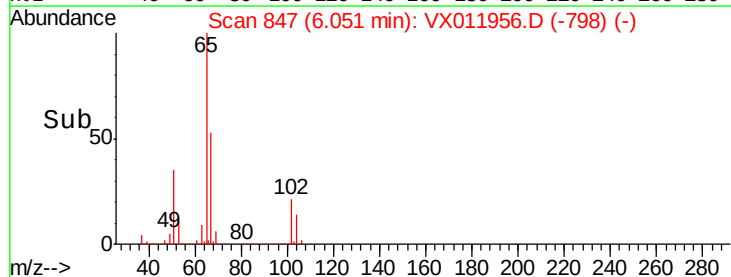
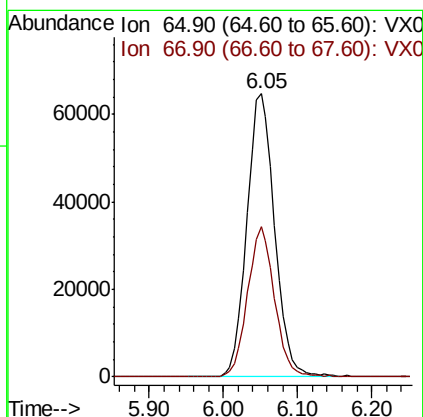
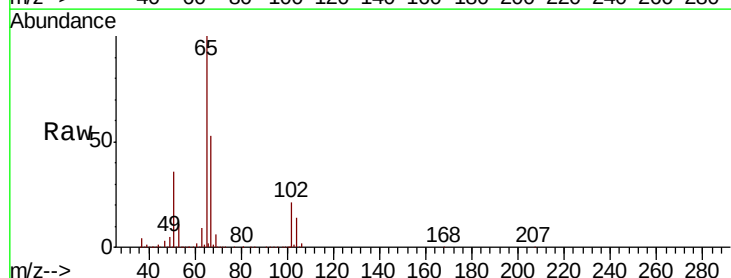
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-D-(0)

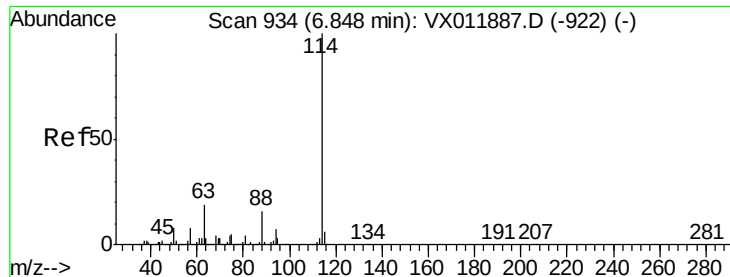
Tgt Ion: 42 Resp: 6250  
Ion Ratio Lower Upper  
42 100  
72 47.1 36.2 54.4  
71 46.6 33.1 49.7



#33  
1,2-Dichloroethane-d4  
Concen: 41.652 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

Tgt Ion: 65 Resp: 169564  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-D-(0)

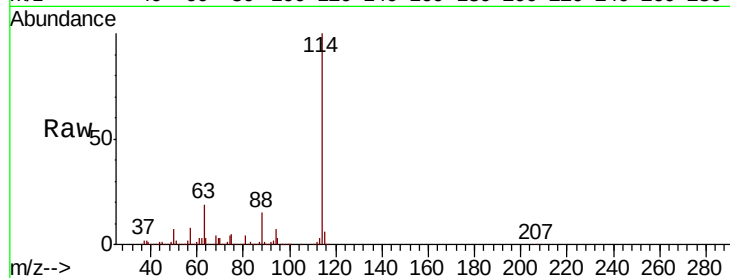
Tgt Ion:114 Resp: 548713

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.8

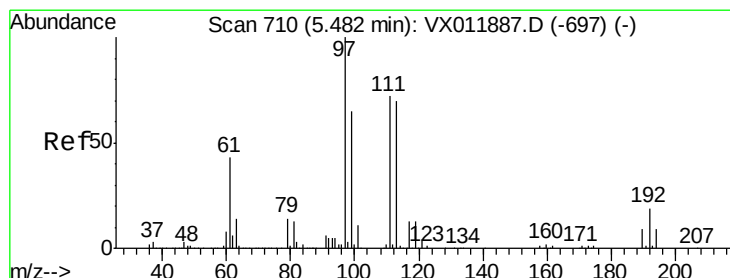
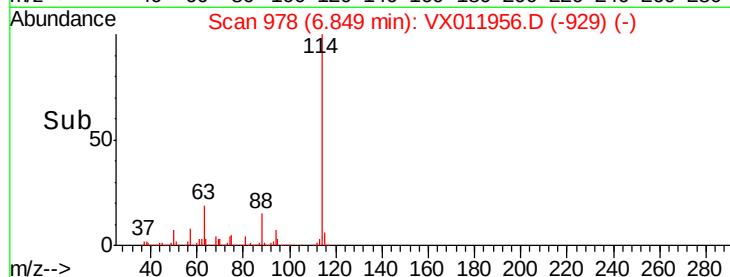
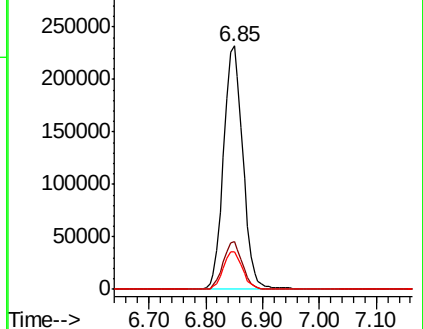
88 15.4 0.0 31.2



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



#35

Dibromofluoromethane

Concen: 44.735 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

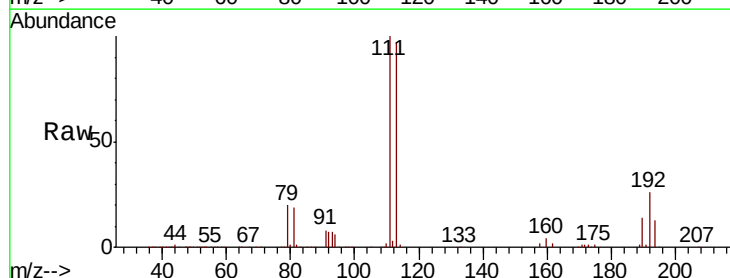
Tgt Ion:113 Resp: 157405

Ion Ratio Lower Upper

113 100

111 101.5 82.1 123.1

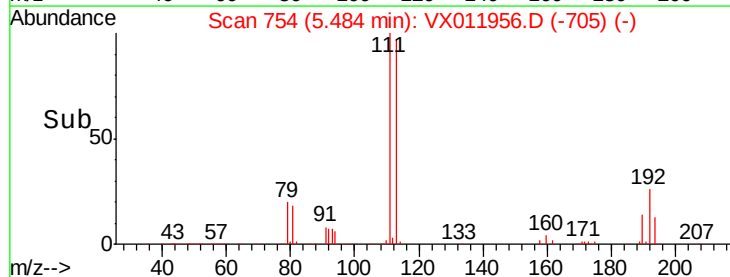
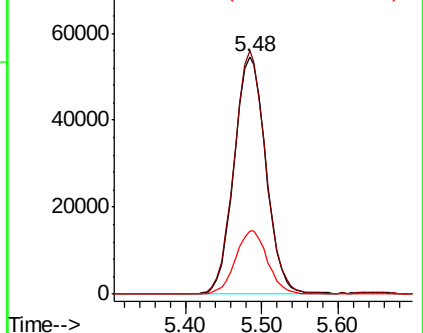
192 26.8 21.5 32.3

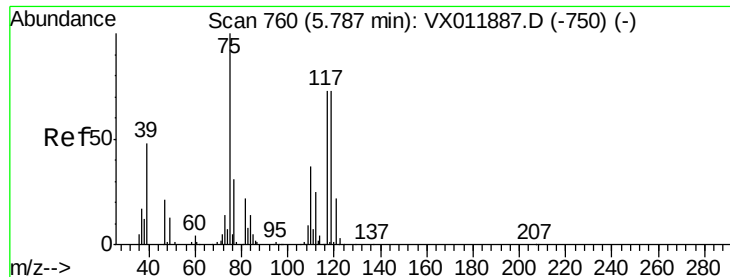


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.876 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.14 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-D-(0)

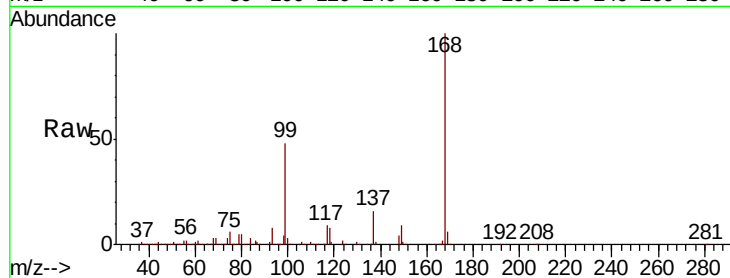
Tgt Ion: 75 Resp: 25545

Ion Ratio Lower Upper

75 100

110 10.9 19.1 57.3#

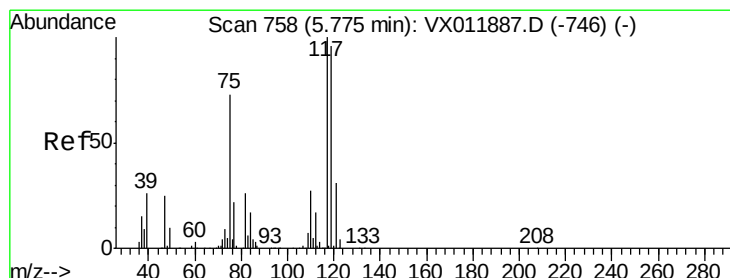
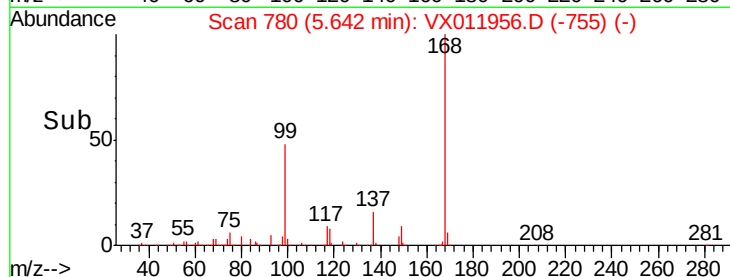
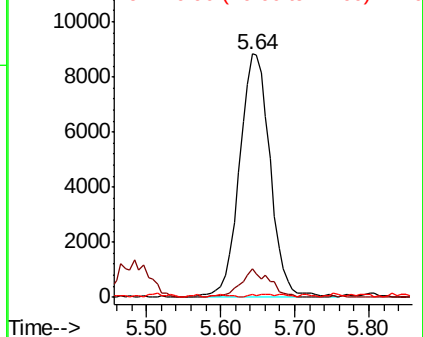
77 0.9 24.4 36.6#



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: 7.162 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

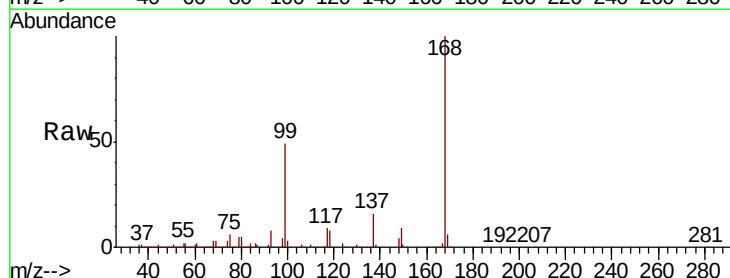
Tgt Ion: 117 Resp: 36108

Ion Ratio Lower Upper

117 100

119 5.1 76.6 114.8#

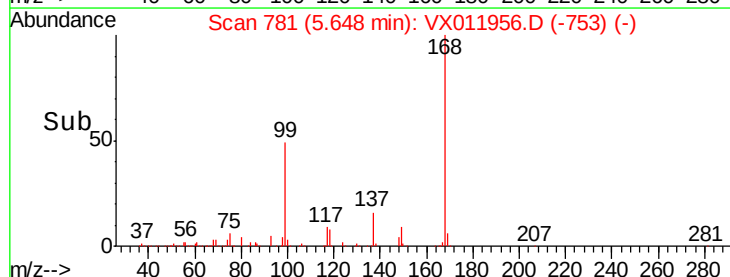
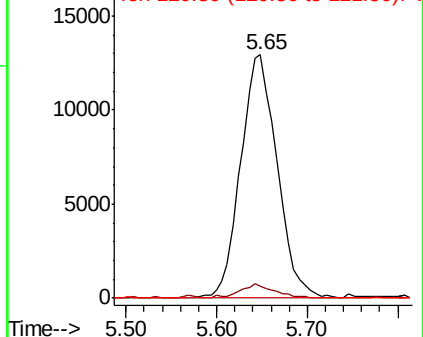
121 0.0 24.7 37.1#



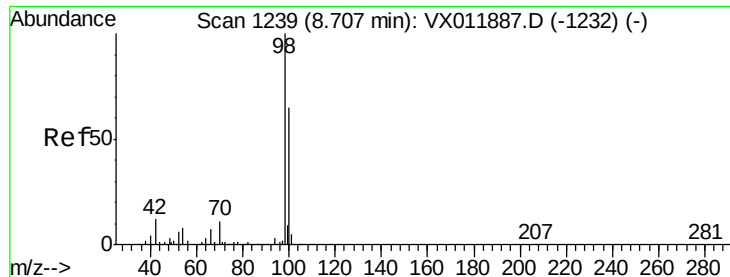
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



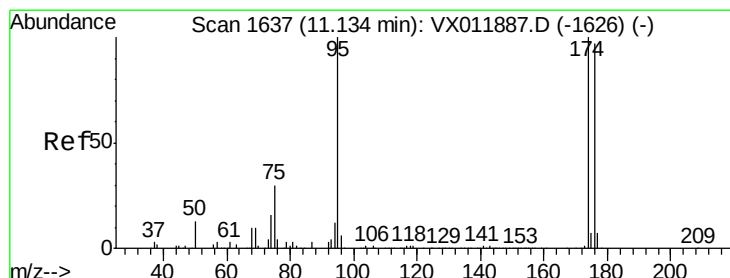
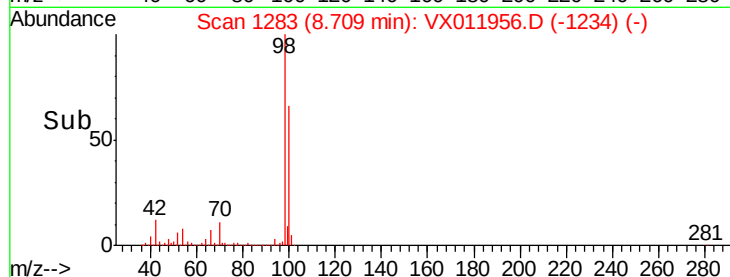
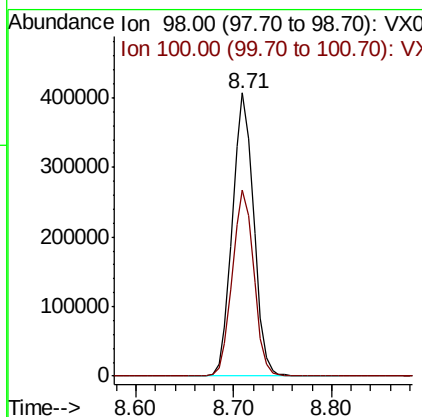
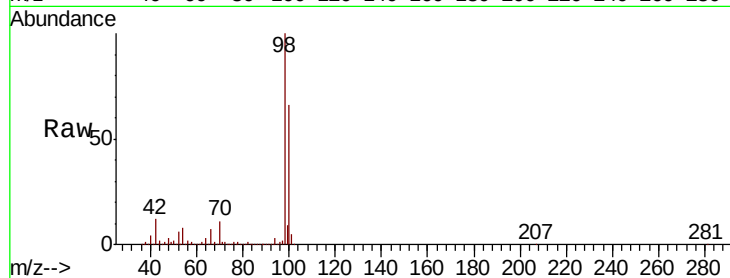




#50  
Toluene-d8  
Concen: 49.193 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

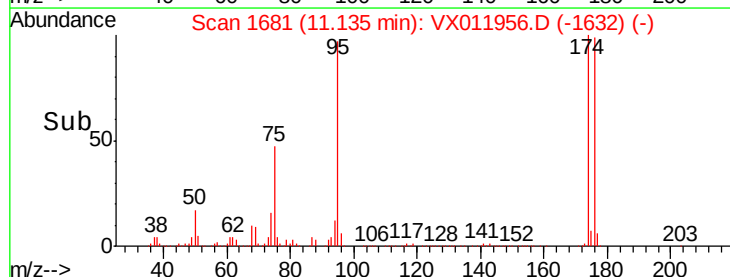
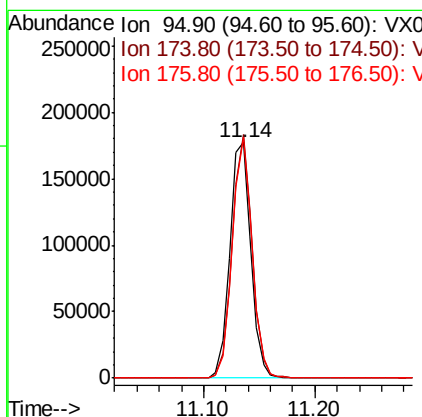
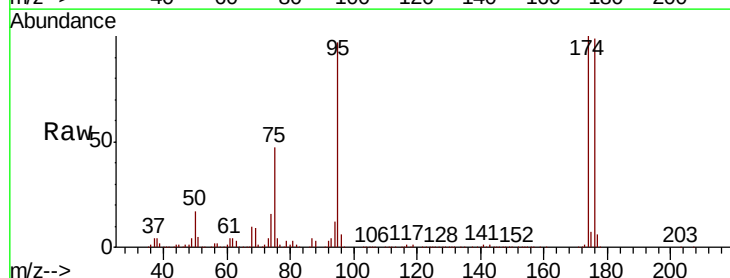
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-D-(0)

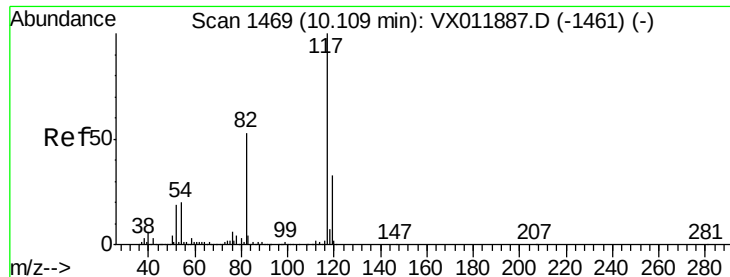
Tgt Ion: 98 Resp: 618746  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.0 79.6



#62  
4-Bromofluorobenzene  
Concen: 41.820 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

Tgt Ion: 95 Resp: 230740  
Ion Ratio Lower Upper  
95 100  
174 97.8 0.0 196.0  
176 96.7 0.0 191.4

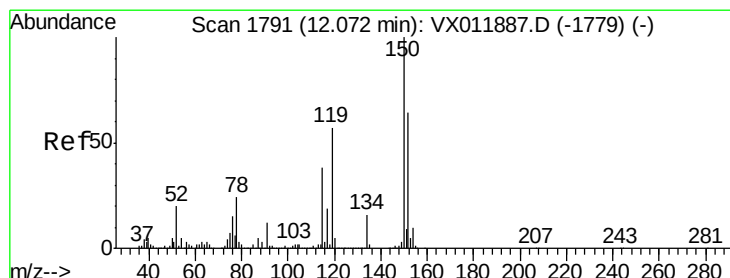
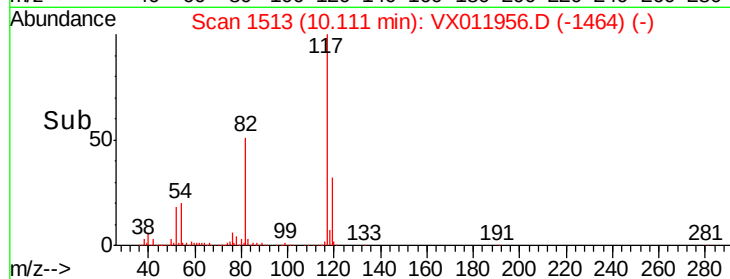
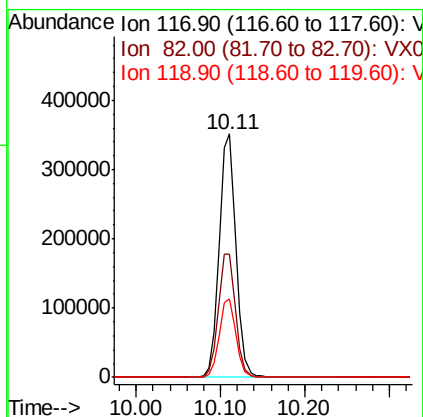
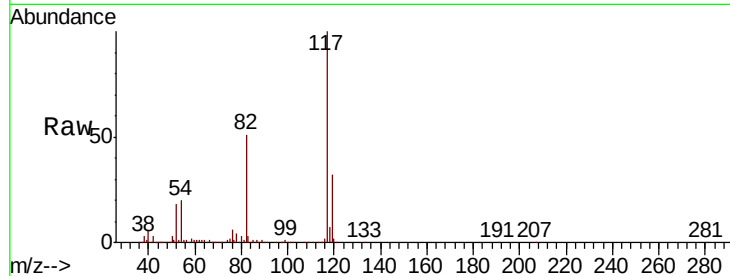




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

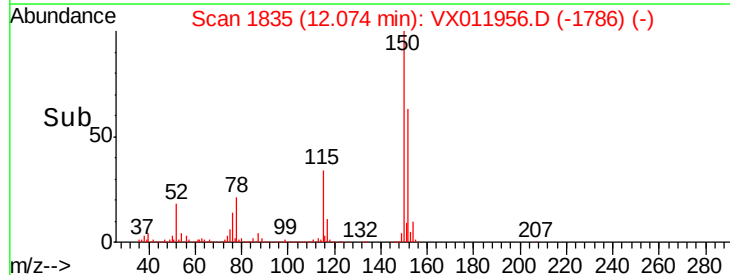
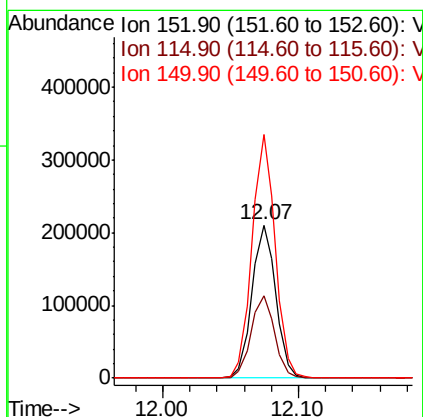
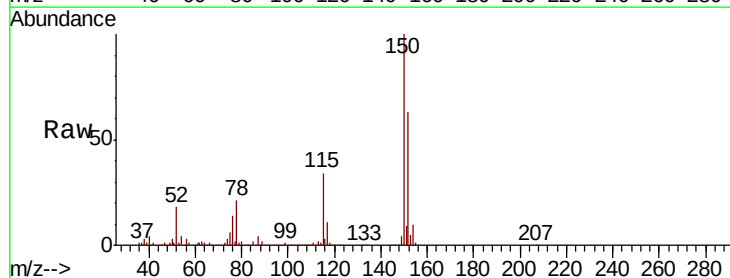
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-D-(0)

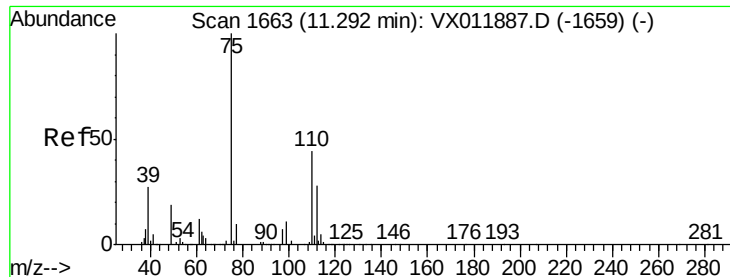
Tgt Ion:117 Resp: 480841  
Ion Ratio Lower Upper  
117 100  
82 50.9 42.0 63.0  
119 32.2 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX011956.D  
Acq: 31 Aug 2019 17:43

Tgt Ion:152 Resp: 258567  
Ion Ratio Lower Upper  
152 100  
115 53.4 37.1 111.3  
150 155.3 0.0 339.6





#76

1,2,3-Trichloropropane

Concen: 44.763 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

Instrument :

MSVOA\_X

ClientSampleId :

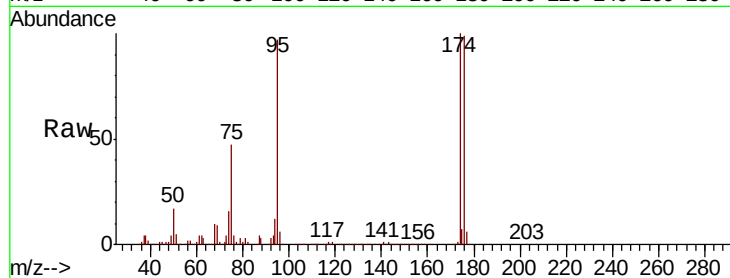
T9-12-13-D-(0)

Tgt Ion: 75 Resp: 113855

Ion Ratio Lower Upper

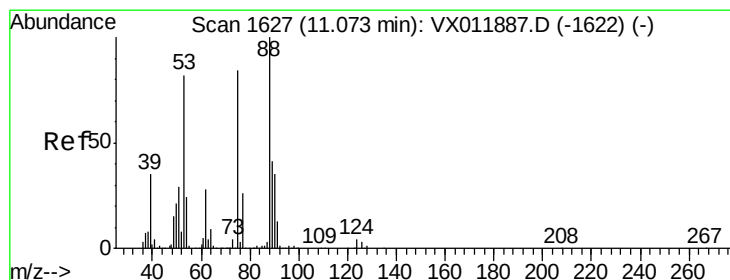
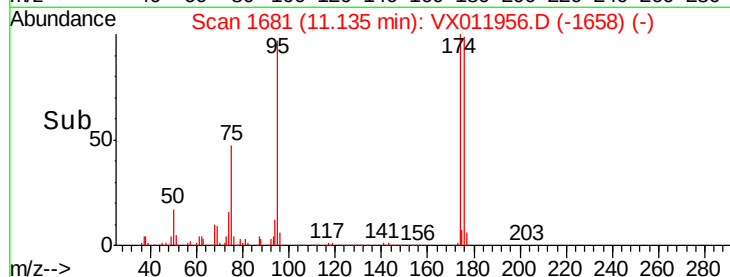
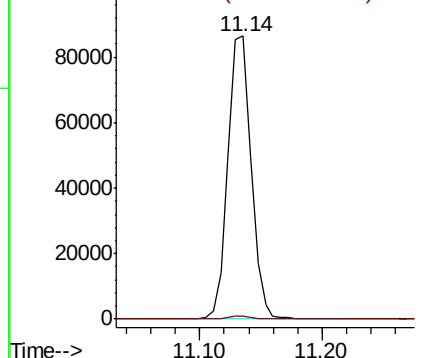
75 100

77 1.4 20.9 62.7#



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: 112.451 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.06 min

Lab File: VX011956.D

Acq: 31 Aug 2019 17:43

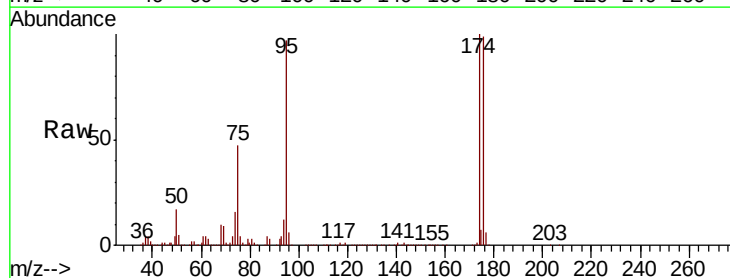
Tgt Ion: 75 Resp: 113855

Ion Ratio Lower Upper

75 100

53 0.1 77.1 115.7#

89 0.0 38.2 57.2#



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

