

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050418\  
 Data File : VX001403.D  
 Acq On : 04 May 2018 18:05  
 Operator : JC/MD  
 Sample : J2707-12  
 Misc : 6.87g/5mL/100uL/5mL/MSVOA\_X/MEOH  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-16(7-7.5)

Quant Time: May 05 05:43:53 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 02 01:48:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 156043   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 209773   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 183744   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 99584    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 105157   | 48.68 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.36% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 85923    | 47.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.08% |          |
| 50) Toluene-d8              | 8.72  | 98   | 307603   | 47.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.28% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 95909    | 37.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.28% |          |

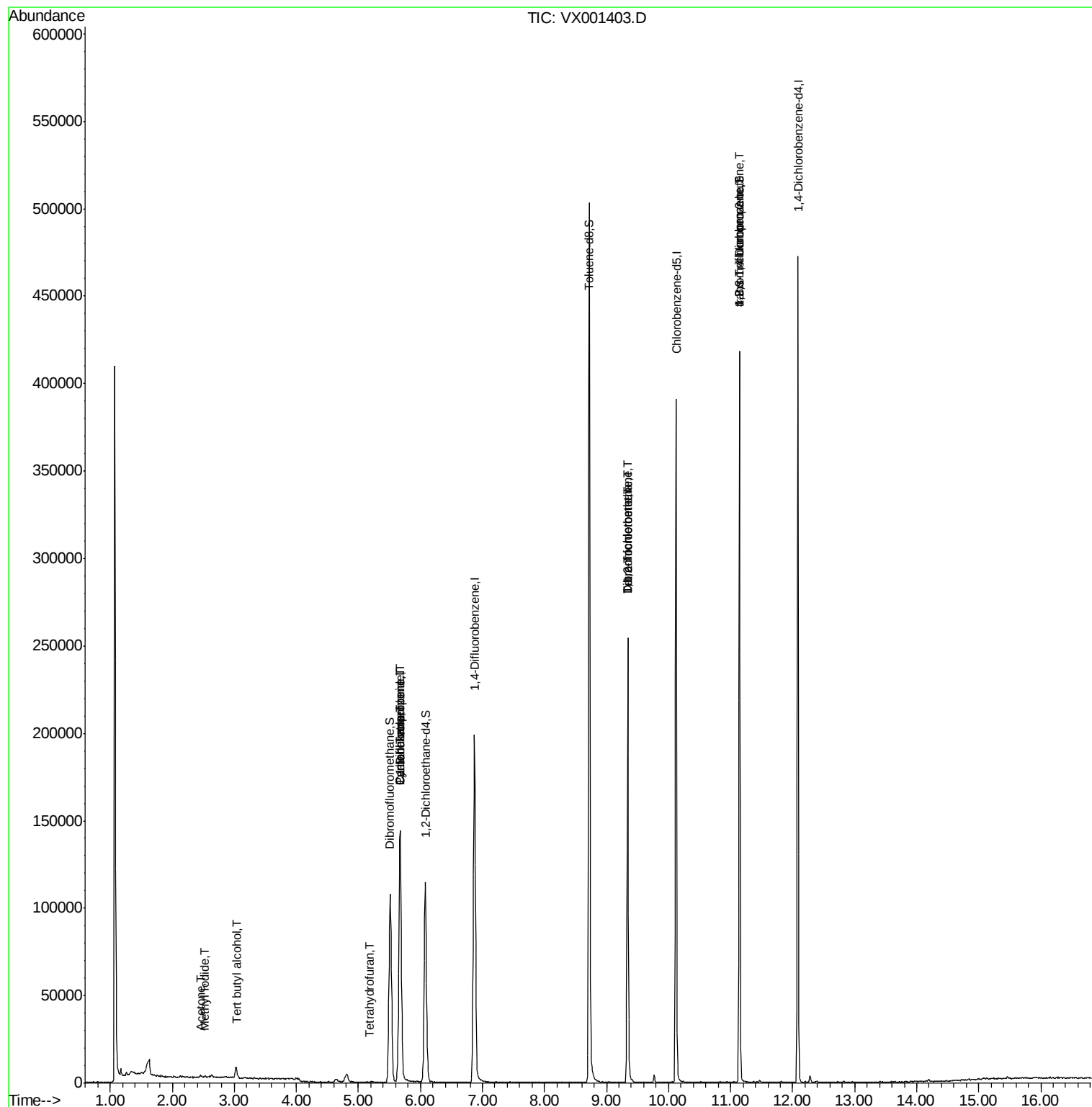
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 705      | Below Cal | #      | 62     |
| 10) Methyl Iodide              | 2.52  | 142  | 702      | 4.67      | ug/l # | 94     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 3647     | 9.81      | ug/l # | 86     |
| 16) Acetone                    | 2.45  | 43   | 1098     | 1.19      | ug/l   | 95     |
| 20) Methylene Chloride         | 2.86  | 84   | 231      | Below Cal | #      | 84     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 253      | 0.33      | ug/l # | 40     |
| 31) Cyclohexane                | 5.67  | 56   | 2771     | 1.04      | ug/l # | 7      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 9312     | 3.85      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 13038    | 5.14      | ug/l # | 17     |
| 55) 1,1,2-Trichloroethane      | 9.34  | 97   | 446      | 0.24      | ug/l # | 32     |
| 60) Dibromochloromethane       | 9.34  | 129  | 43423    | 22.64     | ug/l # | 10     |
| 64) Tetrachloroethene          | 9.34  | 164  | 52399    | 24.07     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 49010    | 26.61     | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 49010    | 83.45     | ug/l # | 6      |

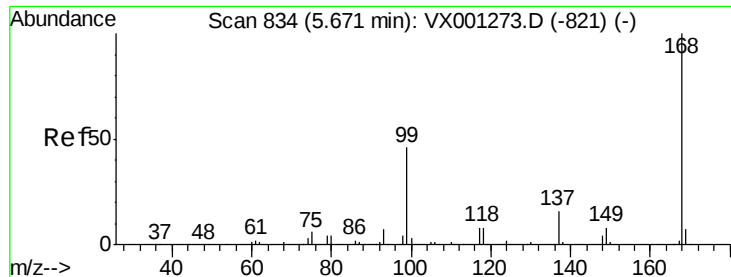
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX050418\  
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Acq On : 04 May 2018 18:05  
Operator : JC/MD  
Sample : J2707-12  
Misc : 6.87g/5mL/100uL/5mL/MSVOA\_X/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-16(7-7.5)

Quant Time: May 05 05:43:53 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050118W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 02 01:48:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

Instrument :

MSVOA\_X

ClientSampleId :

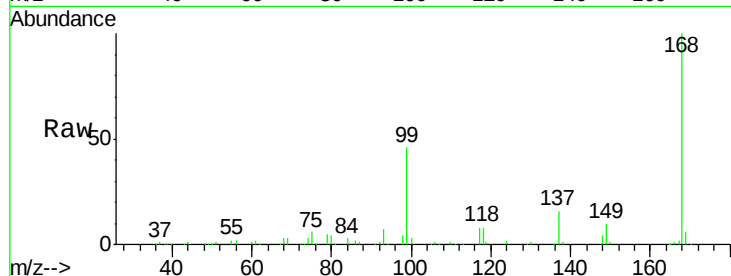
SB-16(7-7.5)

Tgt Ion:168 Resp: 156043

Ion Ratio Lower Upper

168 100

99 46.2 36.5 54.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

50000

40000

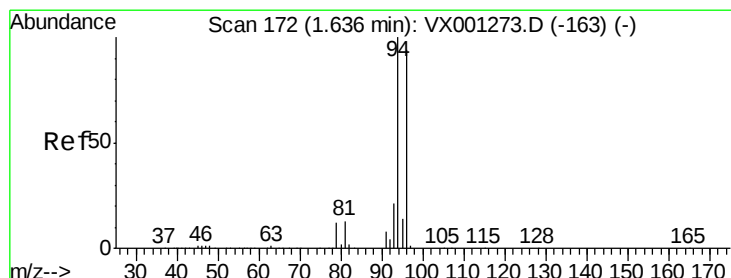
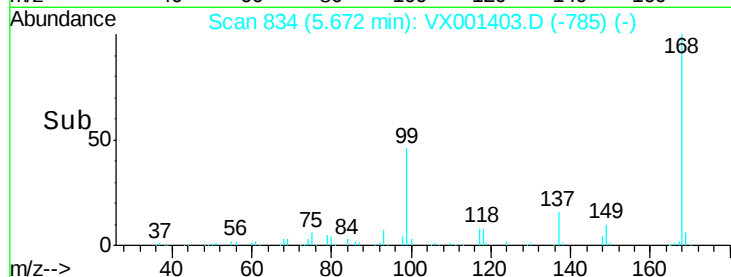
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001403.D

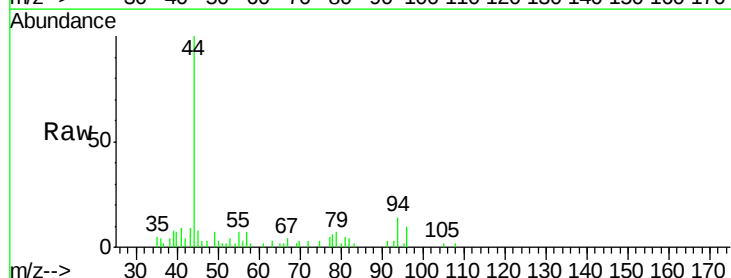
Acq: 04 May 2018 18:05

Tgt Ion: 94 Resp: 705

Ion Ratio Lower Upper

94 100

96 58.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

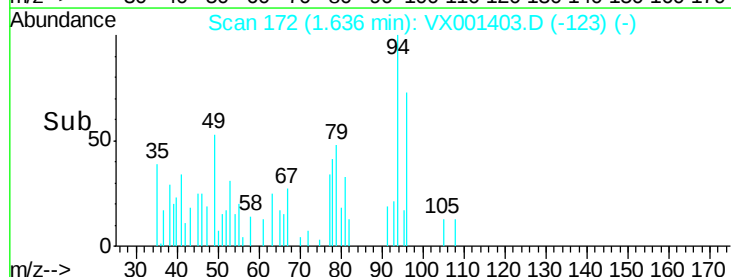
300

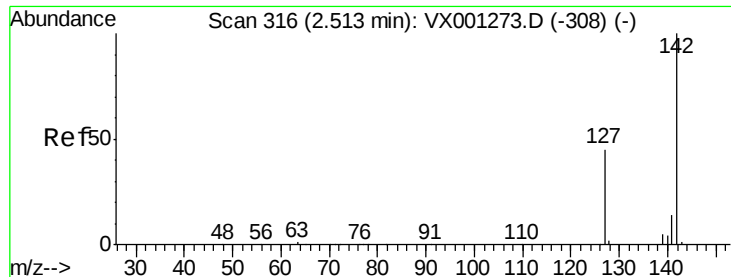
200

100

0

Time--> 1.60 1.65

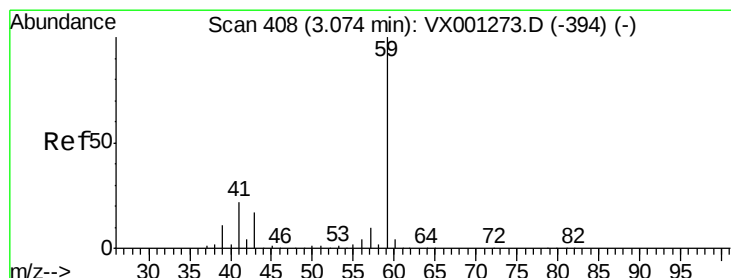
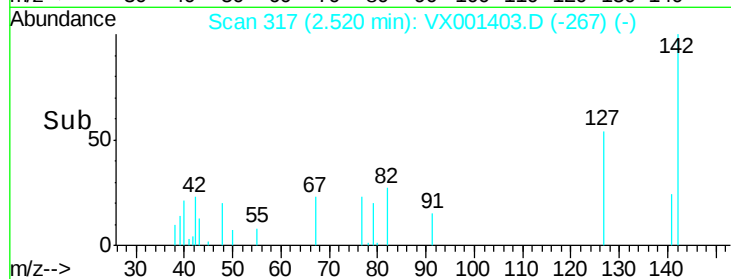
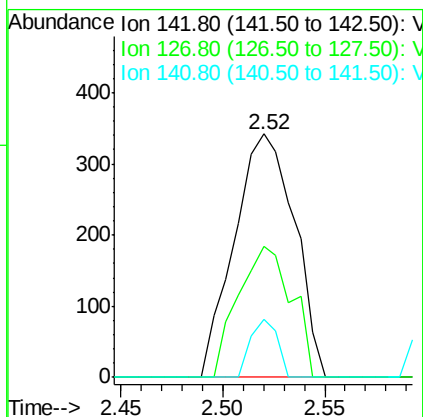
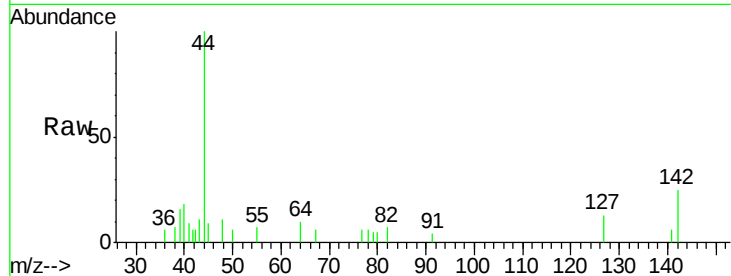




#10  
Methyl Iodide  
Concen: 4.67 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

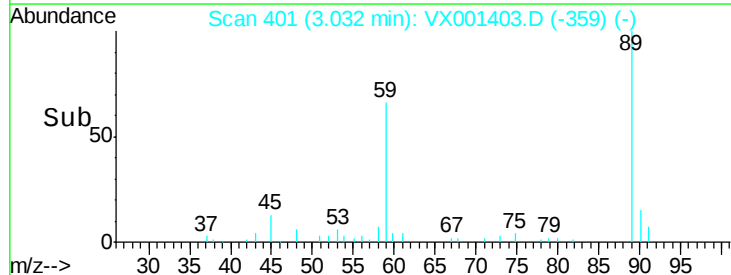
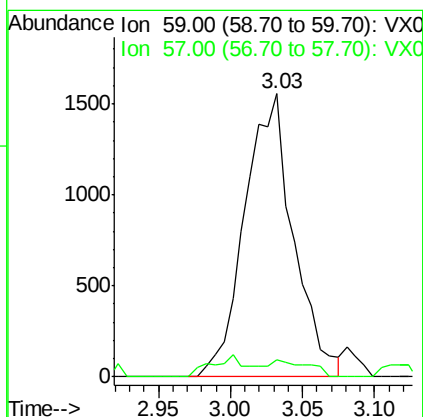
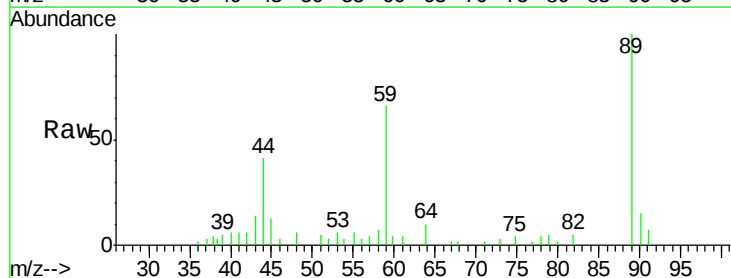
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-16(7-7.5)

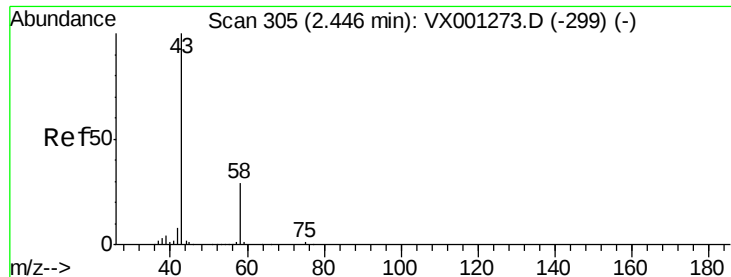
Tgt Ion:142 Resp: 702  
Ion Ratio Lower Upper  
142 100  
127 48.0 35.7 53.5  
141 10.8 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 9.81 ug/l  
RT: 3.03 min Scan# 401  
Delta R.T. -0.04 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

Tgt Ion: 59 Resp: 3647  
Ion Ratio Lower Upper  
59 100  
57 5.6 8.6 12.8#





#16

Acetone

Concen: 1.19 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

Instrument :

MSVOA\_X

ClientSampleId :

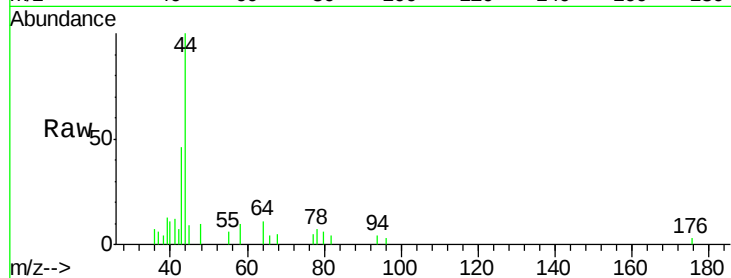
SB-16(7-7.5)

Tgt Ion: 43 Resp: 1098

Ion Ratio Lower Upper

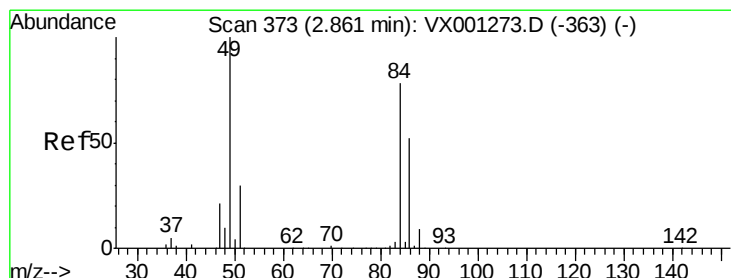
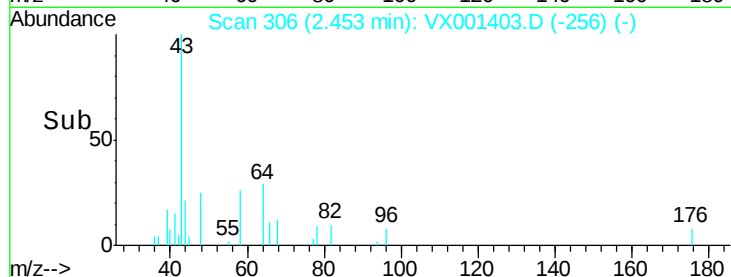
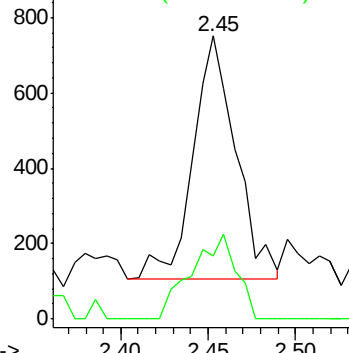
43 100

58 25.9 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

Tgt Ion: 84 Resp: 231

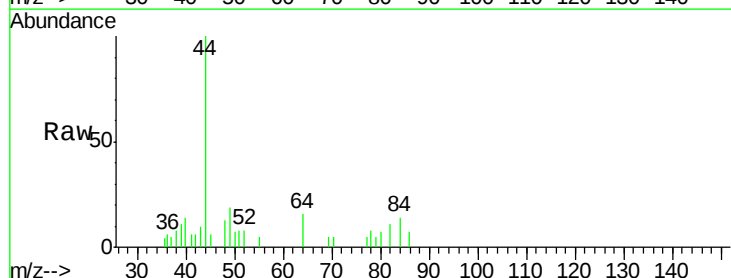
Ion Ratio Lower Upper

84 100

49 139.6 102.8 154.2

51 17.2 30.9 46.3#

86 51.5 53.0 79.4#

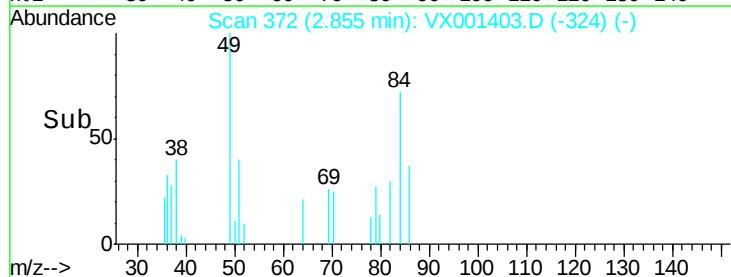
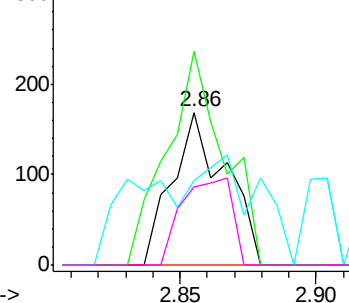


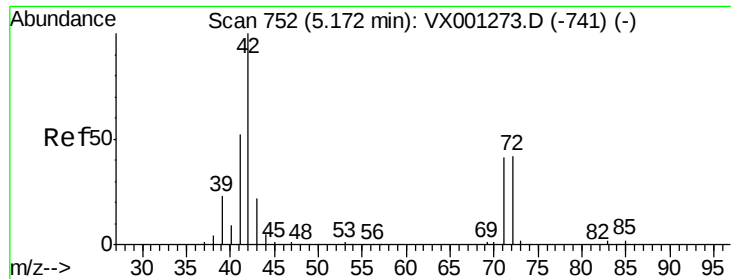
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

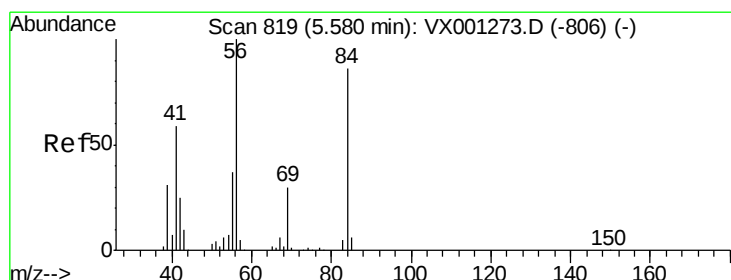
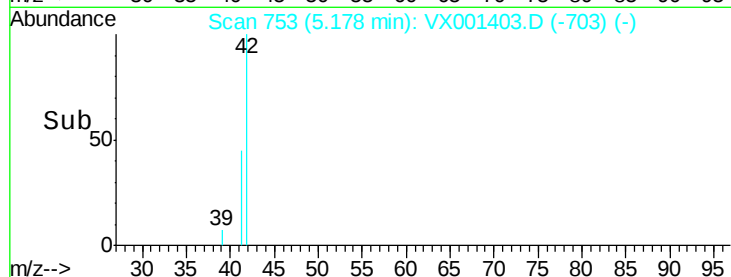
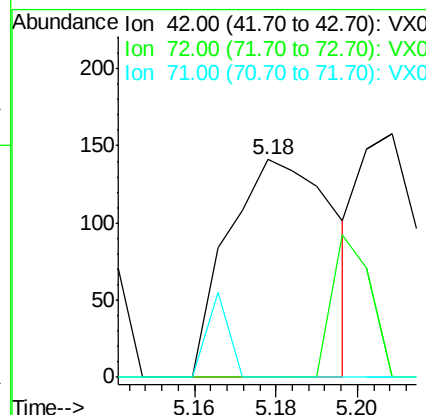
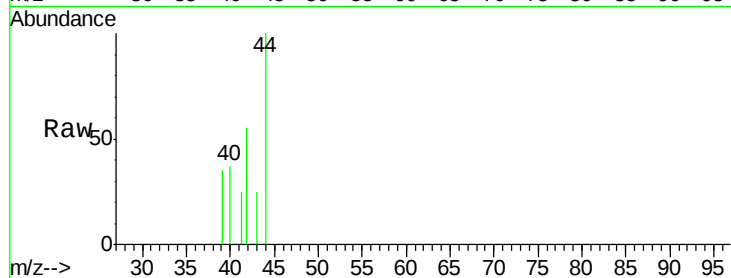




#29  
Tetrahydrofuran  
Concen: 0.33 ug/l  
RT: 5.18 min Scan# 753  
Delta R.T. 0.01 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

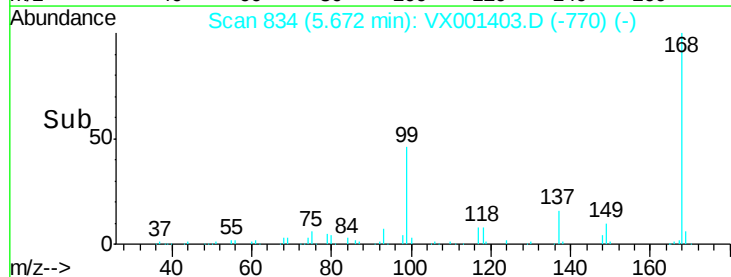
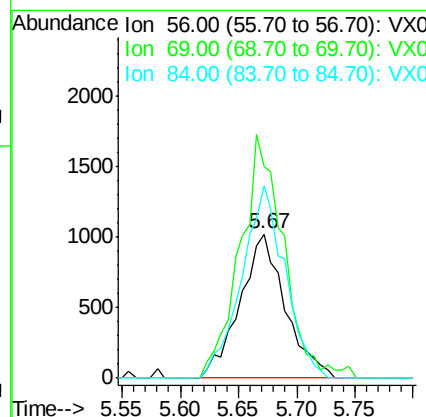
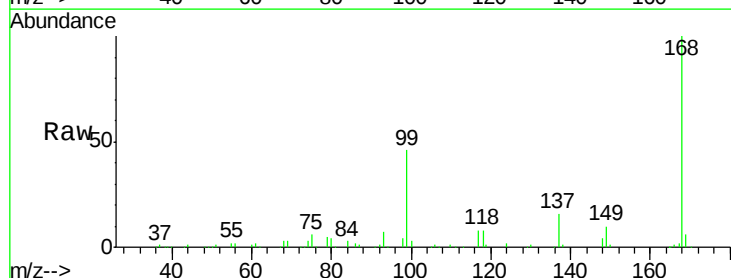
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-16(7-7.5)

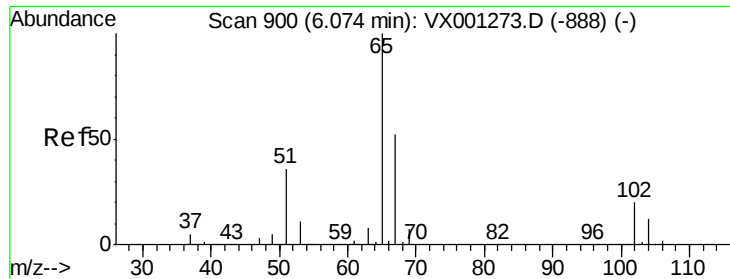
Tgt Ion: 42 Resp: 253  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.6 52.0#  
71 7.9 32.7 49.1#



#31  
Cyclohexane  
Concen: 1.04 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.09 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

Tgt Ion: 56 Resp: 2771  
Ion Ratio Lower Upper  
56 100  
69 146.6 24.0 36.0#  
84 133.2 69.0 103.4#

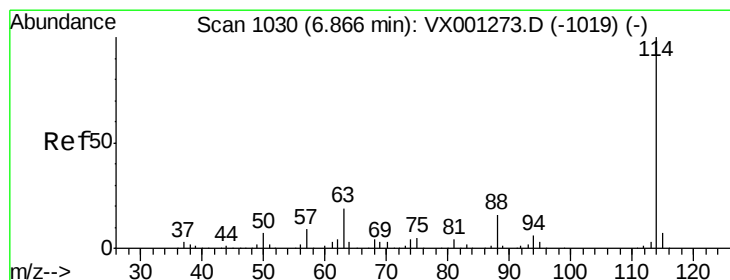
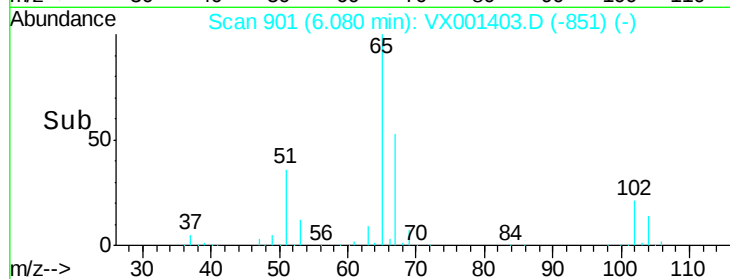
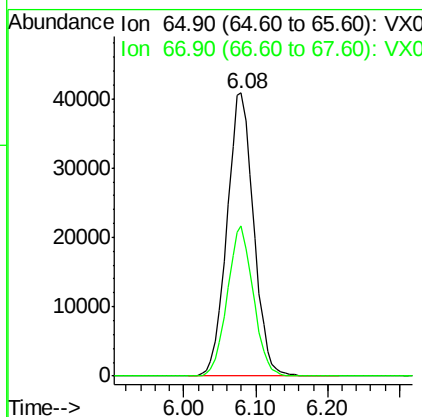
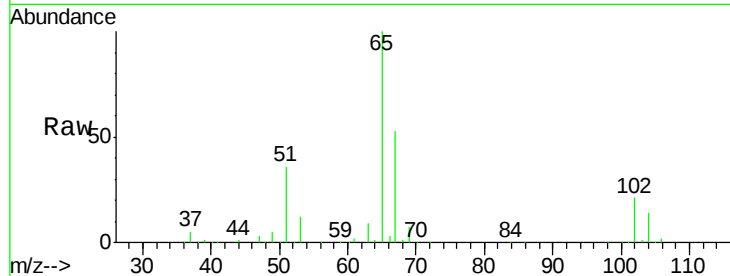




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.68 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.01 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

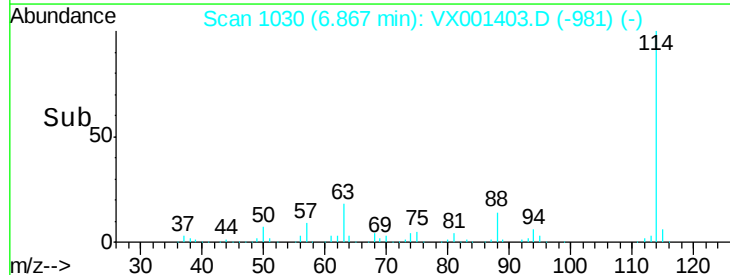
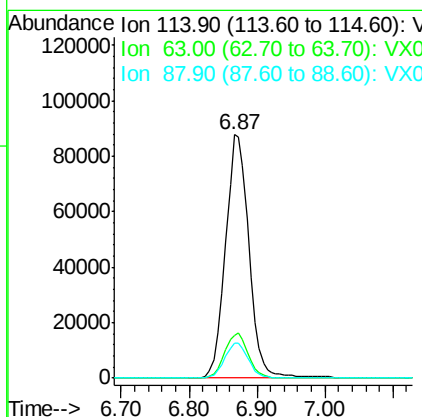
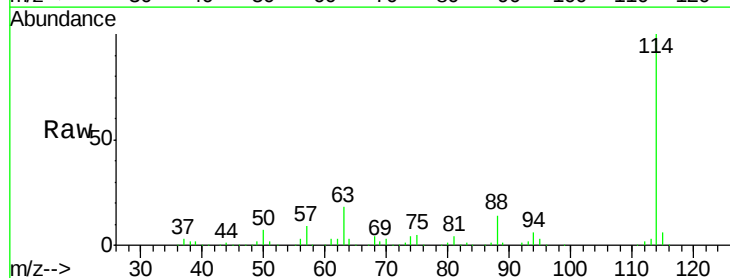
Instrument :  
 MSVOA\_X  
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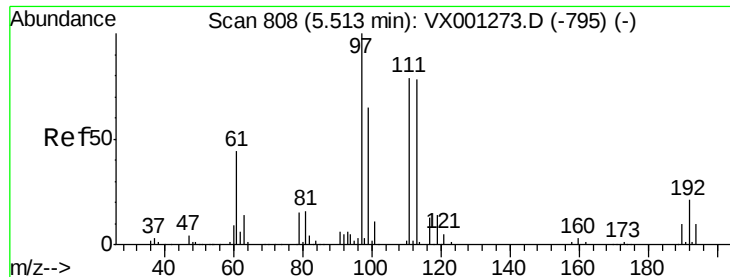
Tgt Ion: 65 Resp: 105157  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 102.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

Tgt Ion: 114 Resp: 209773  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 38.8  
 88 14.4 0.0 32.2

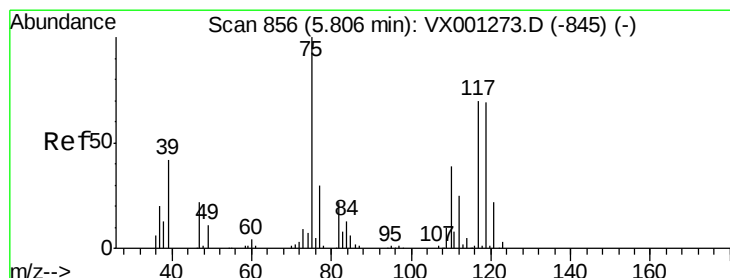
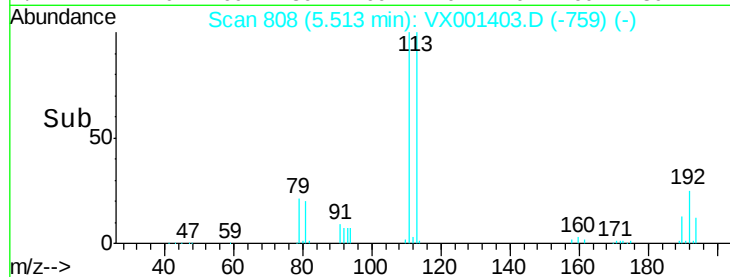
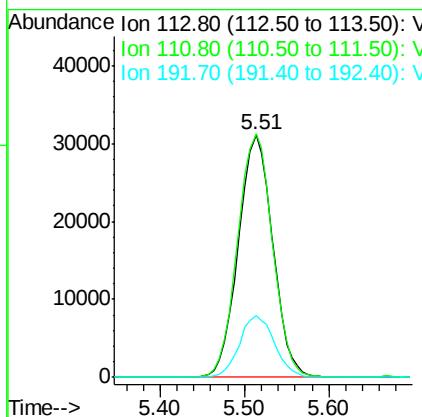
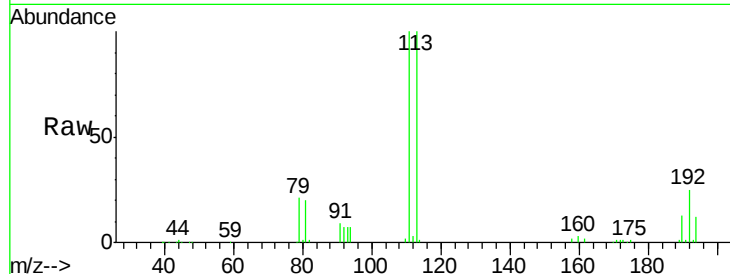




#35  
 Dibromofluoromethane  
 Concen: 47.54 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

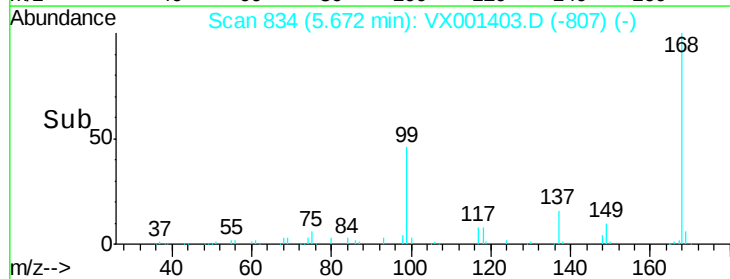
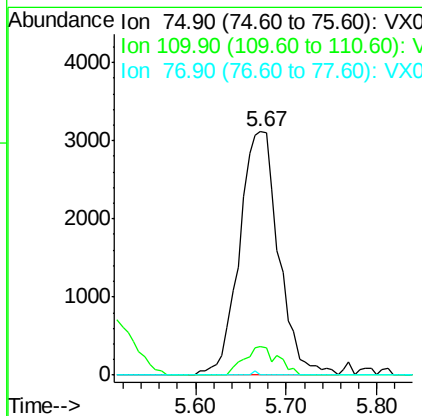
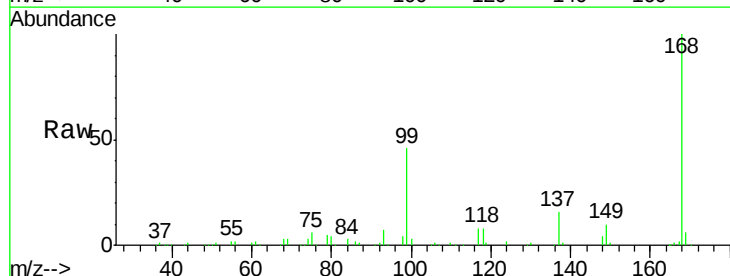
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-16(7-7.5)

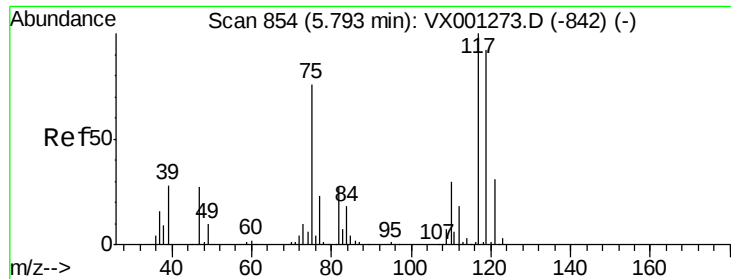
Tgt Ion:113 Resp: 85923  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.2 121.8  
 192 25.9 20.7 31.1



#36  
 1,1-Dichloropropene  
 Concen: 3.85 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

Tgt Ion: 75 Resp: 9312  
 Ion Ratio Lower Upper  
 75 100  
 110 10.2 18.9 56.9#  
 77 0.2 24.2 36.2#

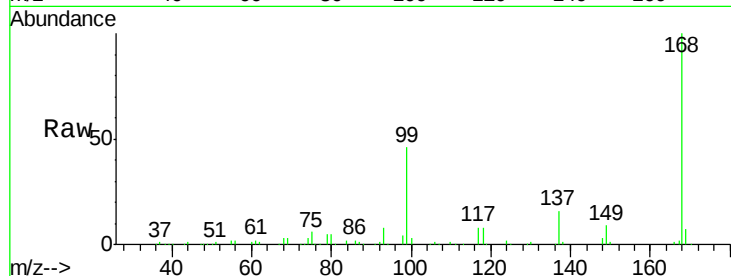




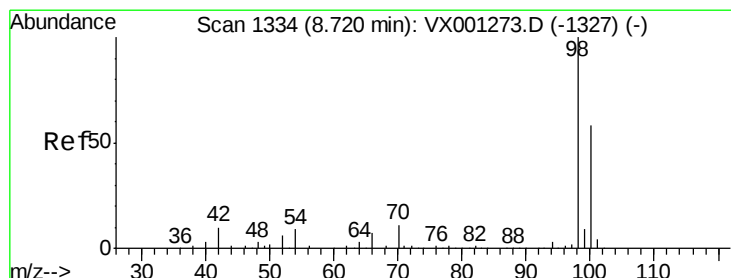
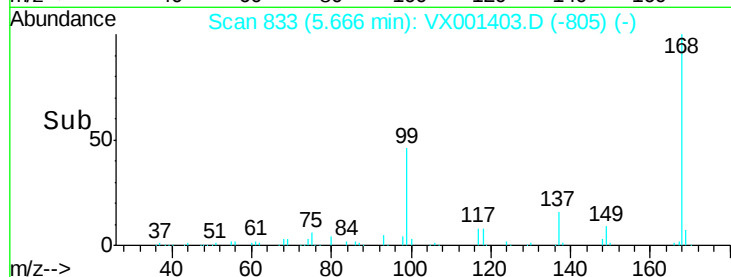
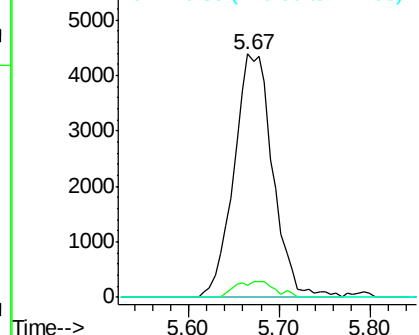
#38  
Carbon Tetrachloride  
Concen: 5.14 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. -0.13 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-16(7-7.5)

Tgt Ion:117 Resp: 13038  
Ion Ratio Lower Upper  
117 100  
119 4.6 73.4 110.2#  
121 0.0 25.0 37.4#

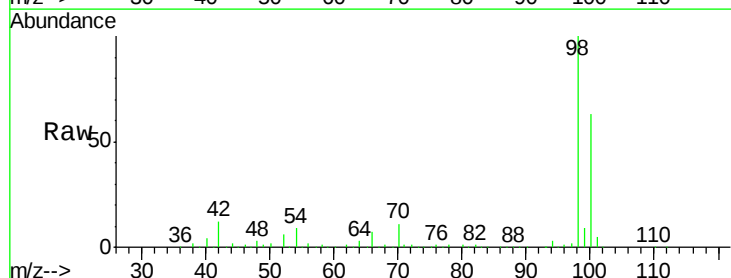


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

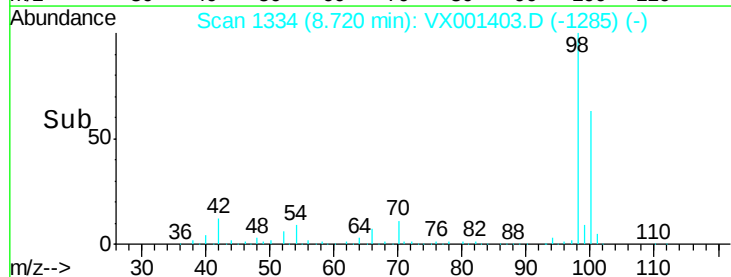
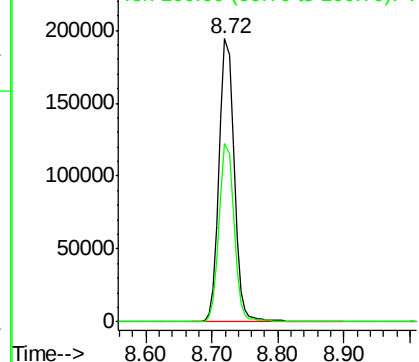


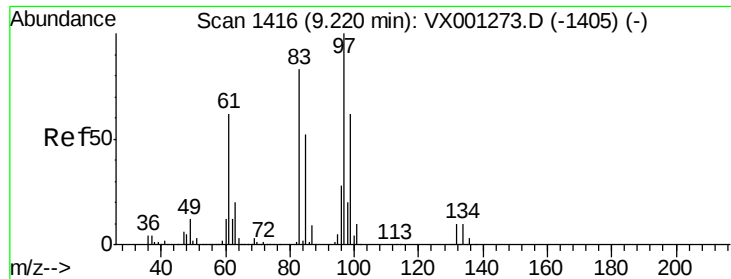
#50  
Toluene-d8  
Concen: 47.64 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

Tgt Ion: 98 Resp: 307603  
Ion Ratio Lower Upper  
98 100  
100 62.6 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

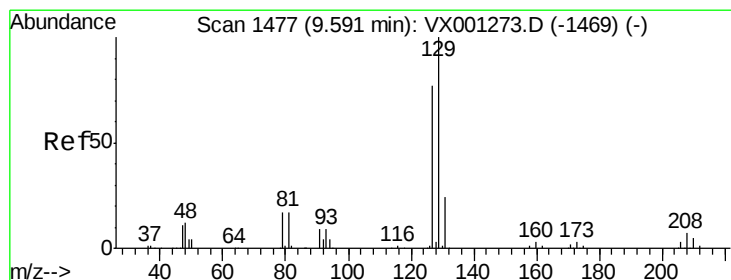
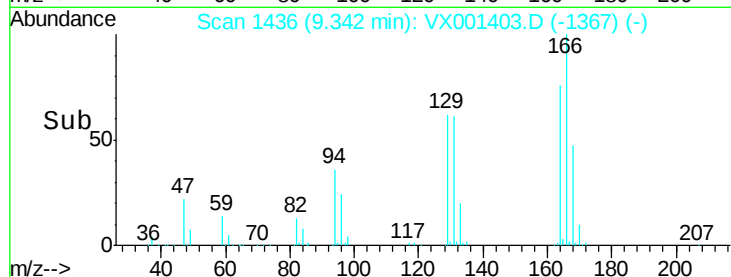
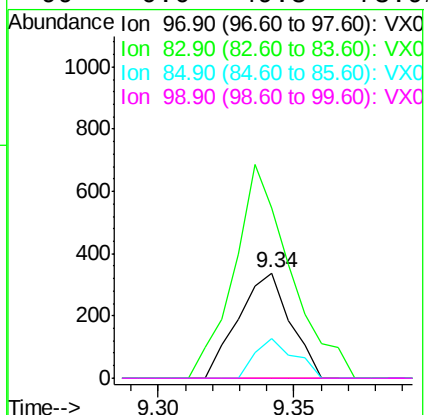
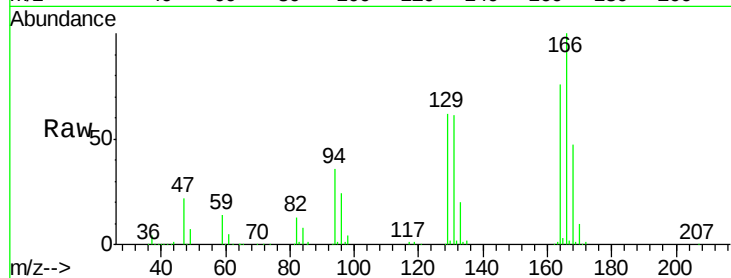




#55  
 1,1,2-Trichloroethane  
 Concen: 0.24 ug/l  
 RT: 9.34 min Scan# 1436  
 Delta R.T. 0.12 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

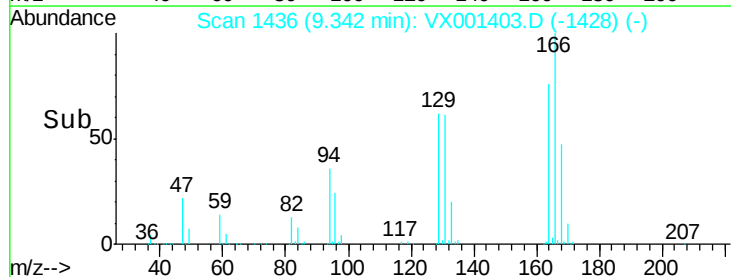
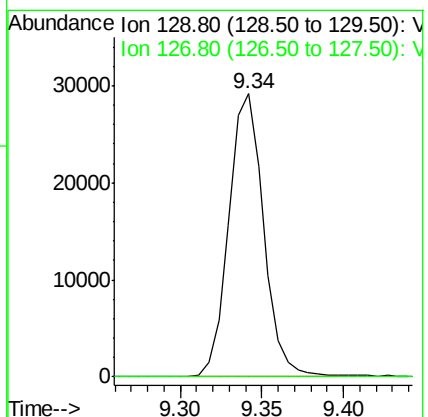
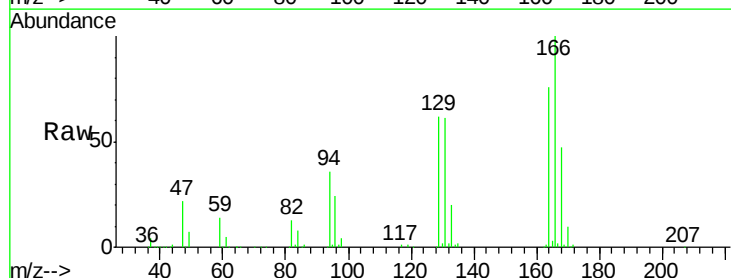
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SB-16(7-7.5)

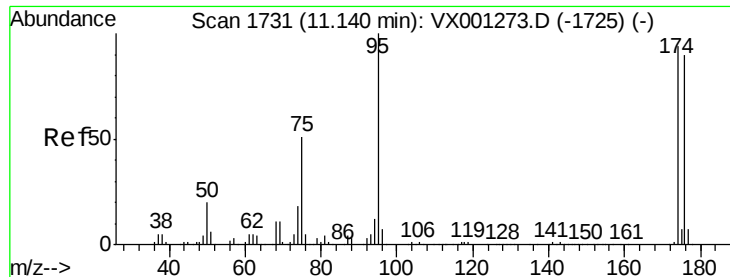
Tgt Ion: 97 Resp: 446  
 Ion Ratio Lower Upper  
 97 100  
 83 162.6 66.4 99.6#  
 85 38.0 41.6 62.4#  
 99 0.0 49.3 73.9#



#60  
 Dibromochloromethane  
 Concen: 22.64 ug/l  
 RT: 9.34 min Scan# 1436  
 Delta R.T. -0.25 min  
 Lab File: VX001403.D  
 Acq: 04 May 2018 18:05

Tgt Ion: 129 Resp: 43423  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.1 117.3#

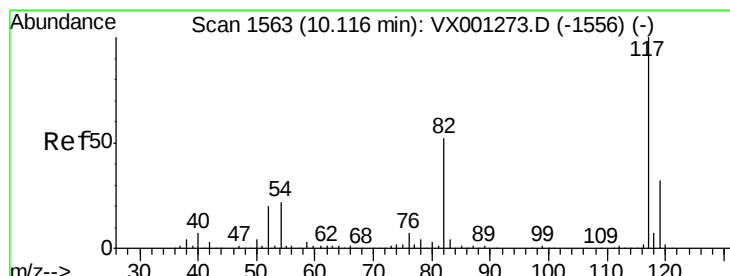
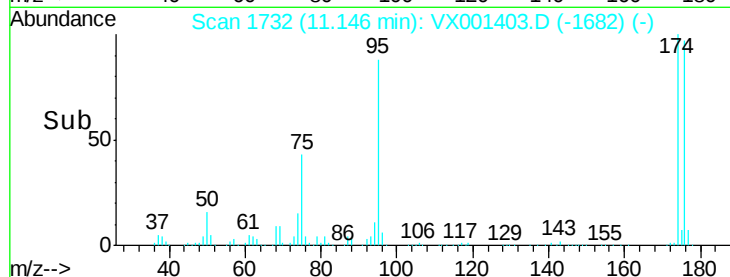
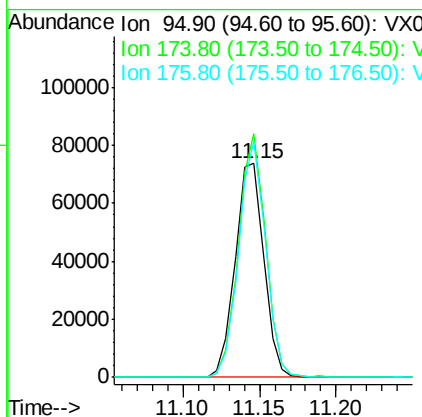
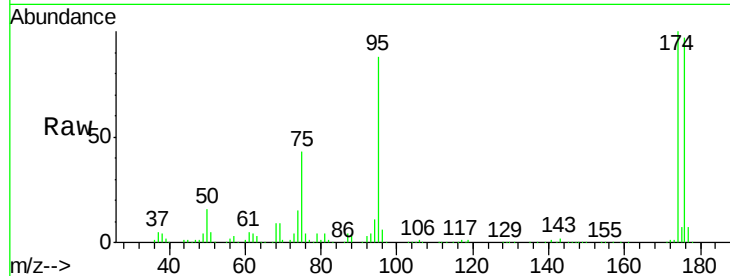




#62  
4-Bromofluorobenzene  
Concen: 37.14 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. 0.01 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

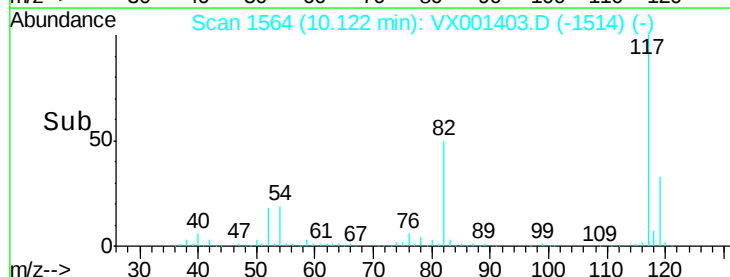
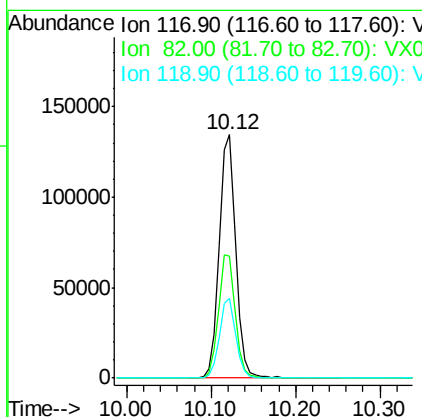
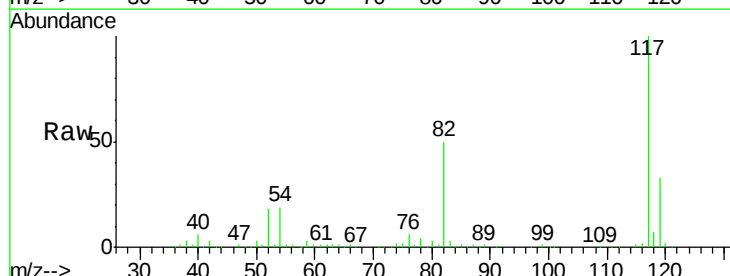
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-16(7-7.5)

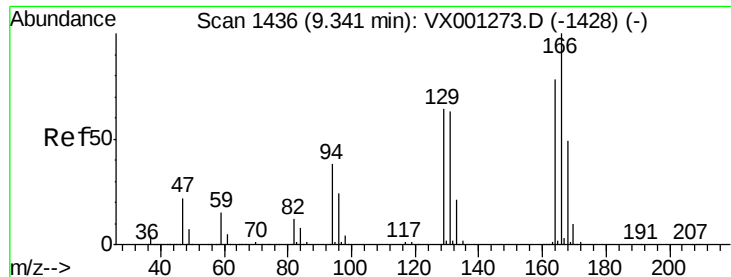
Tgt Ion: 95 Resp: 95909  
Ion Ratio Lower Upper  
95 100  
174 107.9 0.0 201.8  
176 103.8 0.0 197.2



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.01 min  
Lab File: VX001403.D  
Acq: 04 May 2018 18:05

Tgt Ion: 117 Resp: 183744  
Ion Ratio Lower Upper  
117 100  
82 50.1 41.4 62.0  
119 32.5 25.5 38.3





#64

Tetrachloroethene

Concen: 24.07 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

Instrument :

MSVOA\_X

ClientSampleId :

SB-16(7-7.5)

Tgt Ion:164 Resp: 52399

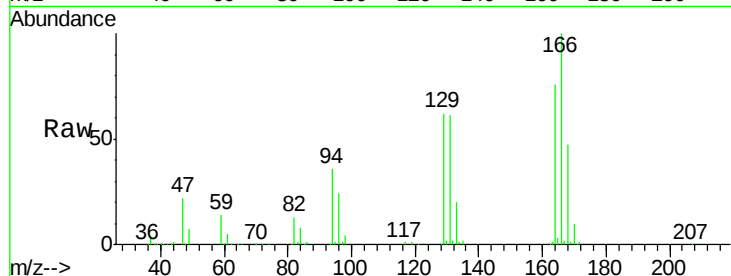
Ion Ratio Lower Upper

164 100

166 130.8 102.3 153.5

129 80.9 65.1 97.7

131 79.7 64.2 96.4

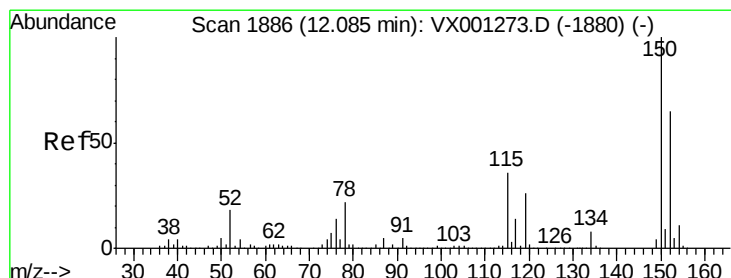
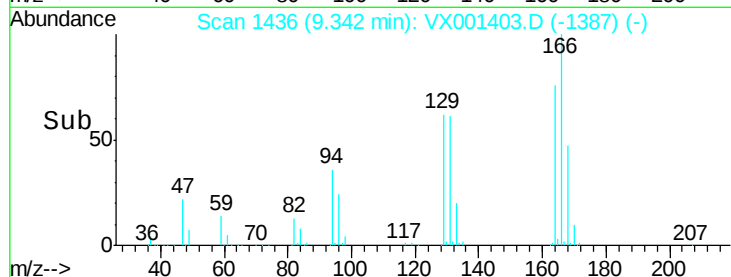
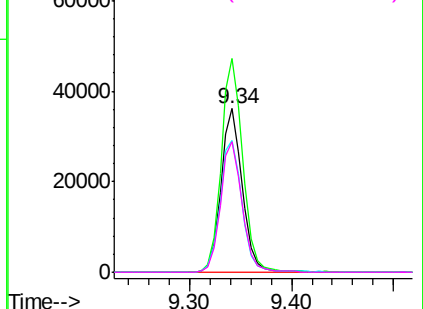


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

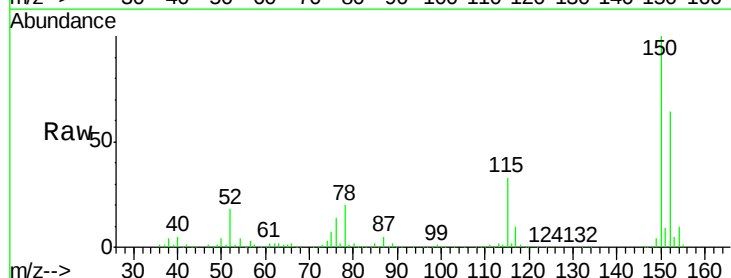
Tgt Ion:152 Resp: 99584

Ion Ratio Lower Upper

152 100

115 52.7 38.6 115.7

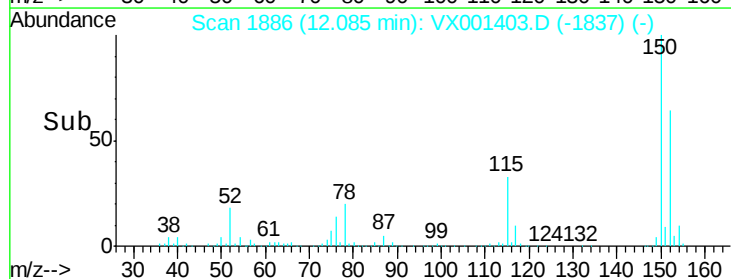
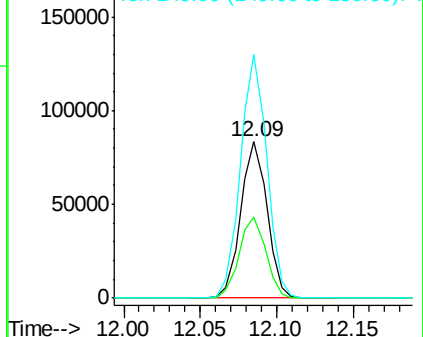
150 156.2 0.0 349.2

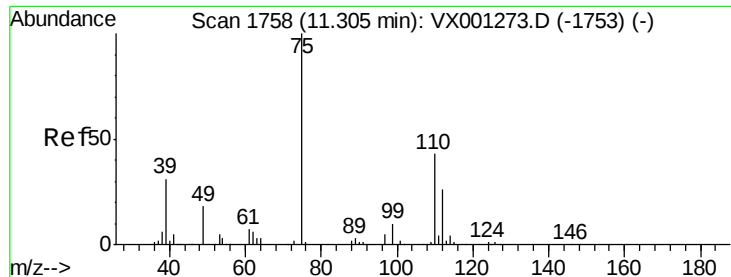


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

Instrument :

MSVOA\_X

ClientSampleId :

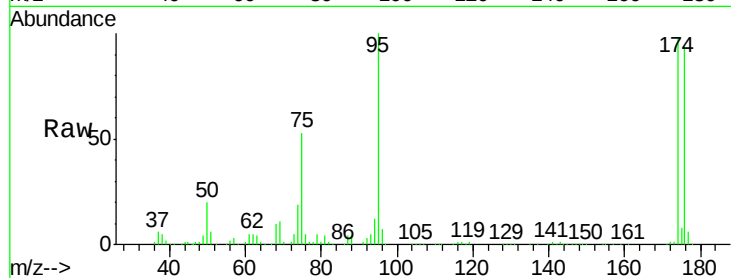
SB-16(7-7.5)

Tgt Ion: 75 Resp: 49010

Ion Ratio Lower Upper

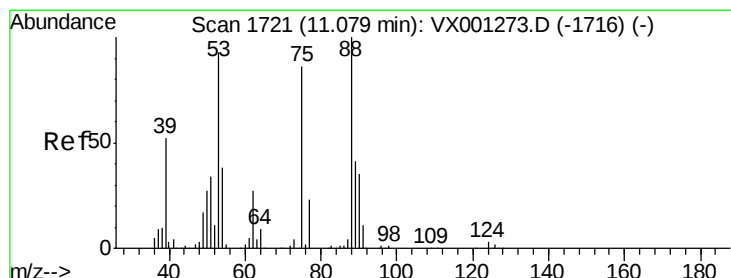
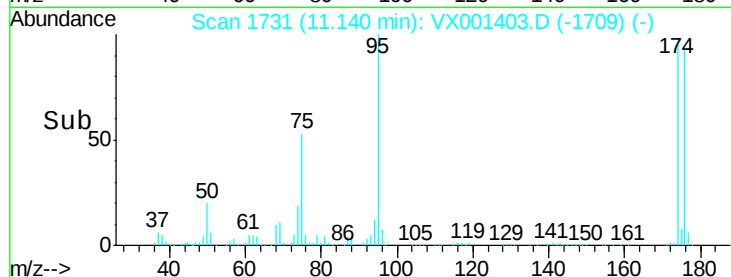
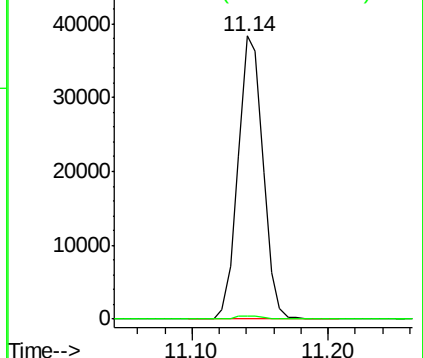
75 100

77 1.4 18.9 56.5#



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: 83.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001403.D

Acq: 04 May 2018 18:05

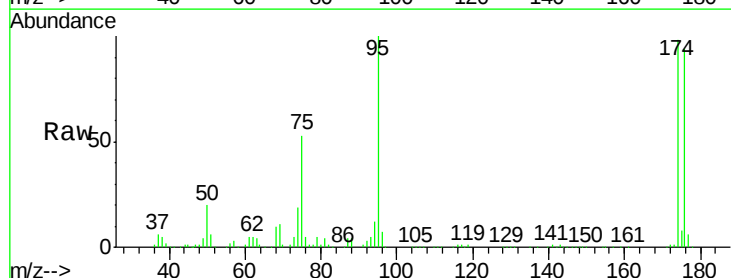
Tgt Ion: 75 Resp: 49010

Ion Ratio Lower Upper

75 100

53 0.0 87.1 130.7#

89 0.0 38.9 58.3#



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

