

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032819\  
 Data File : VX008521.D  
 Acq On : 28 Mar 2019 15:50  
 Operator : JC/SP  
 Sample : K2115-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 QNWP8-MW30S-GW

Quant Time: Mar 29 01:29:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 07:57:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 226241   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 380255   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 324992   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 137536   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 159059   | 46.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.74% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 116090   | 46.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.64% |          |
| 50) Toluene-d8              | 8.71  | 98   | 474451   | 47.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.72% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 160805   | 43.77 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.54% |          |

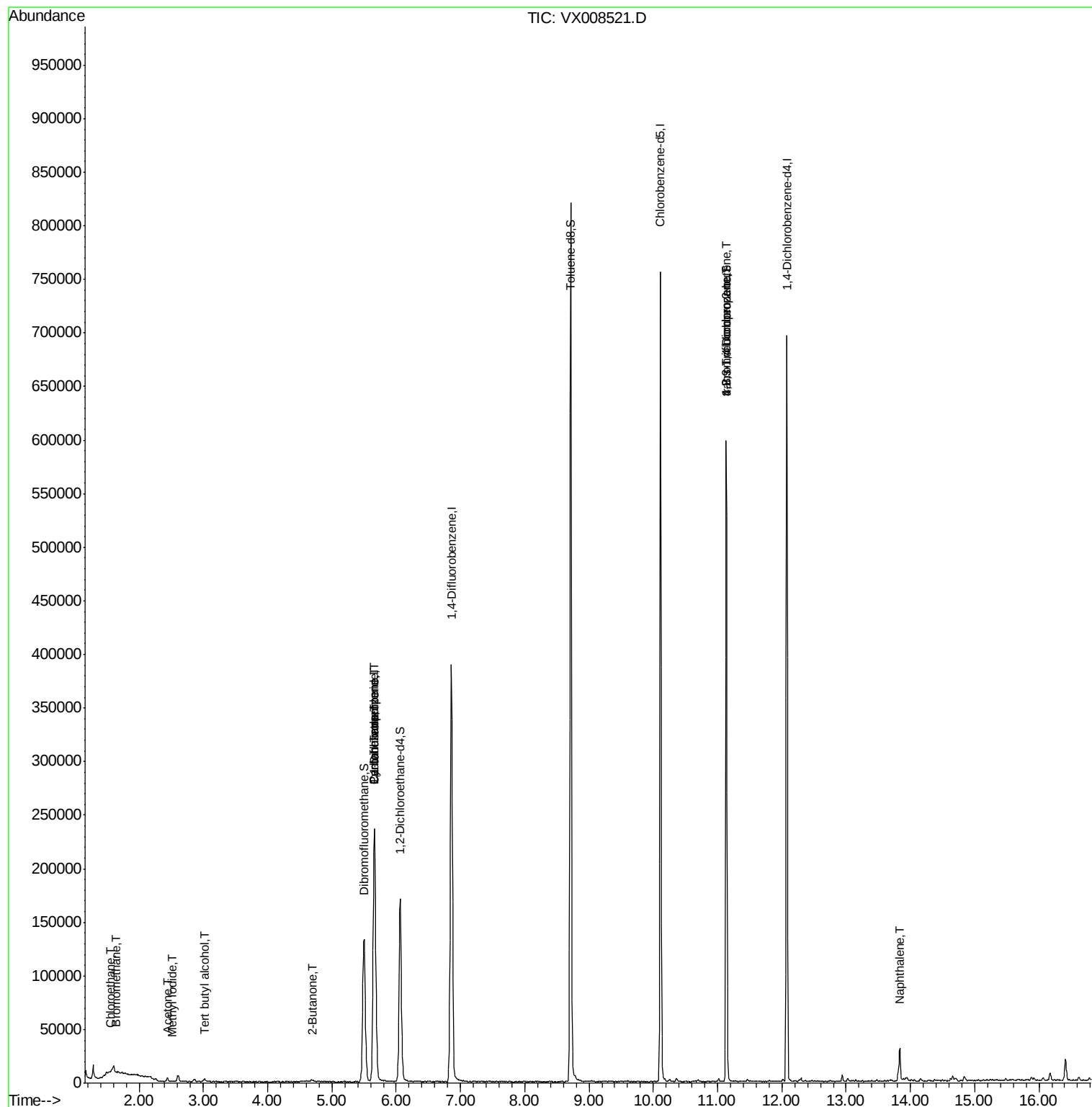
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 614      | Below Cal | #      | 71     |
| 5) Bromomethane                | 1.64  | 94   | 280      | 1.946     | ug/l # | 69     |
| 6) Chloroethane                | 1.54  | 64   | 14812    | 6.715     | ug/l # | 48     |
| 10) Methyl Iodide              | 2.52  | 142  | 173      | 4.193     | ug/l # | 70     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 2129     | 2.802     | ug/l # | 92     |
| 16) Acetone                    | 2.44  | 43   | 4128     | 2.303     | ug/l   | 95     |
| 17) Carbon Disulfide           | 2.57  | 76   | 971      | Below Cal | #      | 76     |
| 20) Methylene Chloride         | 2.86  | 84   | 1007     | Below Cal | #      | 85     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96   | 45       | Below Cal | #      | 48     |
| 25) 2-Butanone                 | 4.70  | 43   | 668      | 0.232     | ug/l # | 52     |
| 31) Cyclohexane                | 5.65  | 56   | 5560     | 1.011     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 19084    | 4.707     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22901    | 6.768     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 82327    | 20.135    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 82327    | 64.488    | ug/l # | 9      |
| 95) Naphthalene                | 13.83 | 128  | 18131    | 1.617     | ug/l   | 98     |

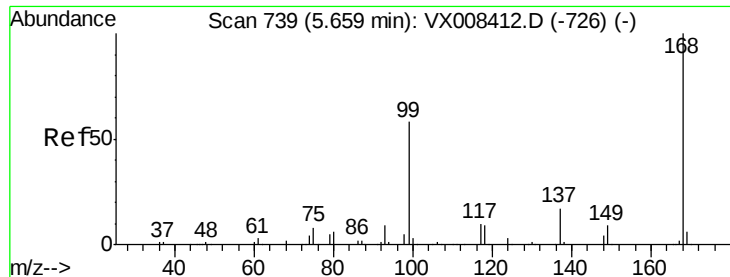
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032819\  
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Instrument :  
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ClientSampleId :  
QNWP8-MW30S-GW

Quant Time: Mar 29 01:29:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 26 07:57:20 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

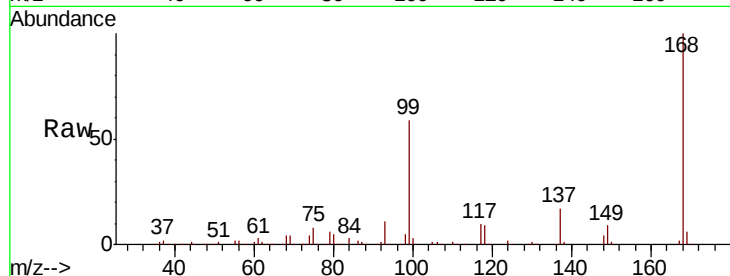
QNWP8-MW30S-GW

Tot Ion:168 Resp: 226241

Ion Ratio Lower Upper

168 100

99 59.2 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

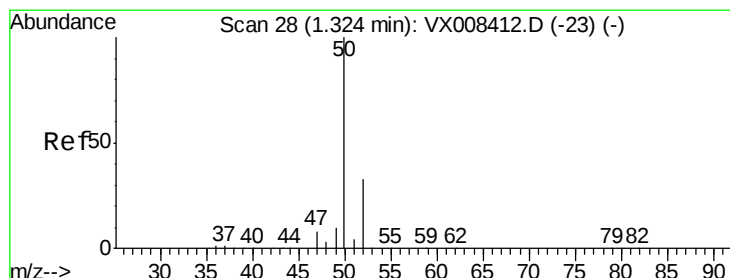
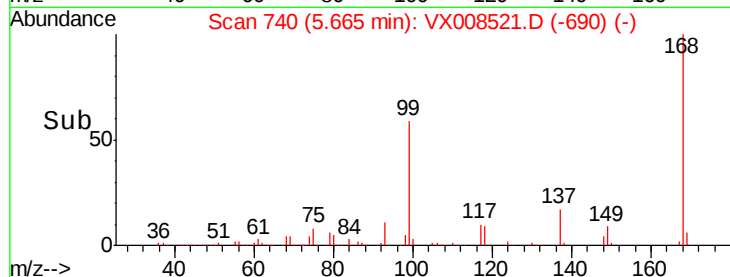
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008521.D

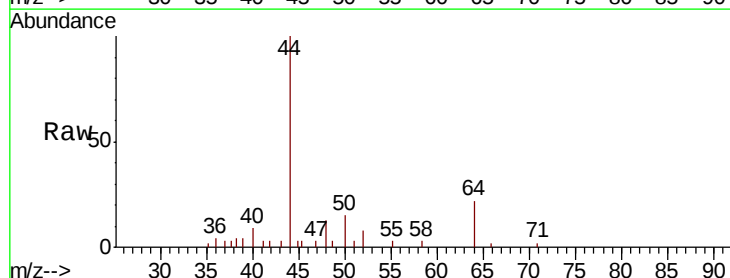
Acq: 28 Mar 2019 15:50

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

50 100

52 48.9 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

300

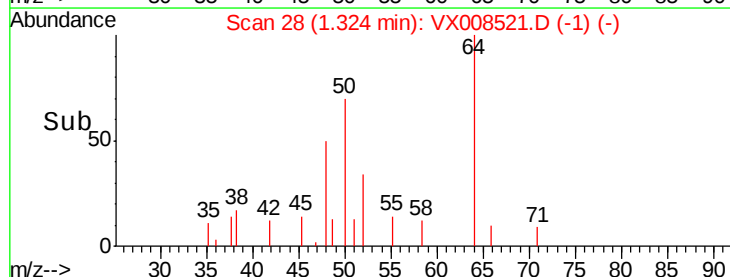
200

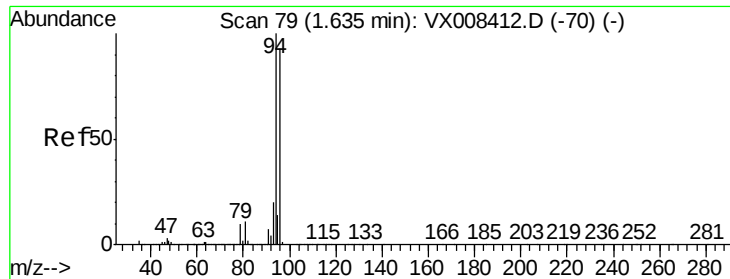
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 1.946 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

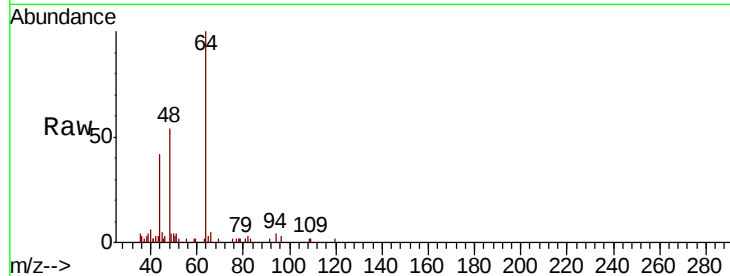
QNWP8-MW30S-GW

Tot Ion: 94 Resp: 280

Ion Ratio Lower Upper

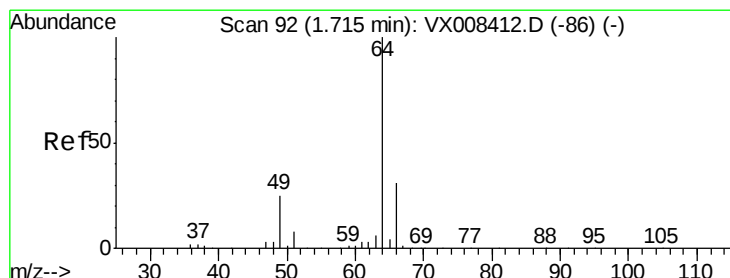
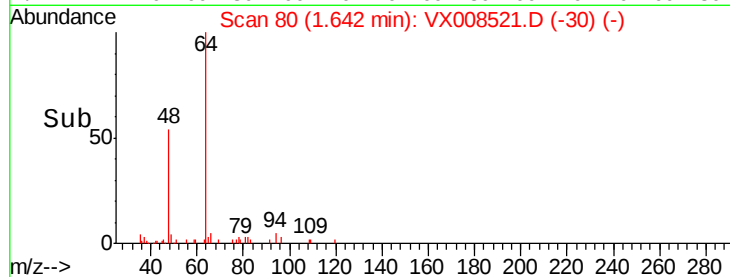
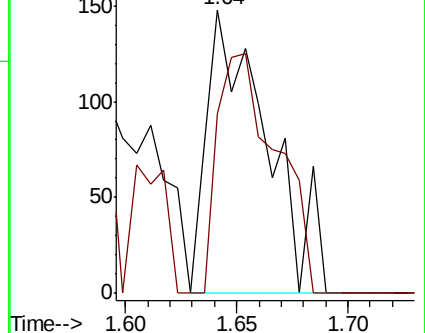
94 100

96 63.5 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 6.715 ug/l

RT: 1.54 min Scan# 64

Delta R.T. -0.17 min

Lab File: VX008521.D

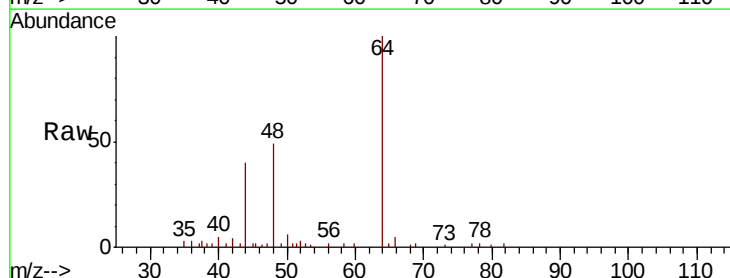
Acq: 28 Mar 2019 15:50

Tgt Ion: 64 Resp: 14812

Ion Ratio Lower Upper

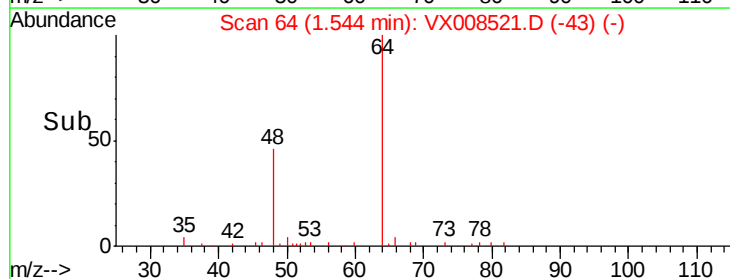
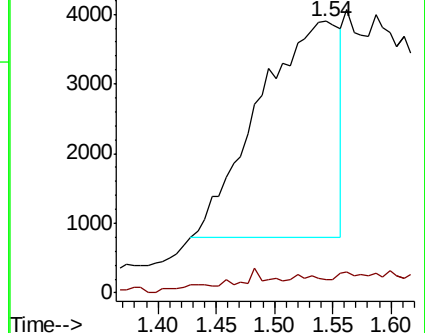
64 100

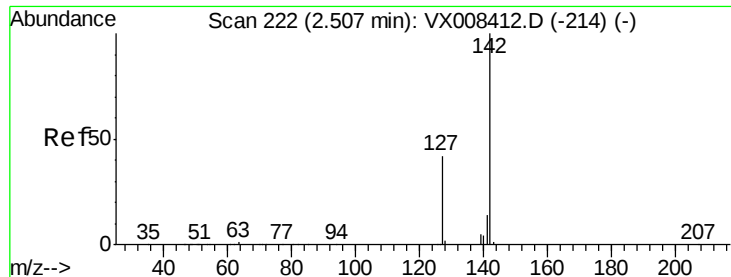
66 2.8 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

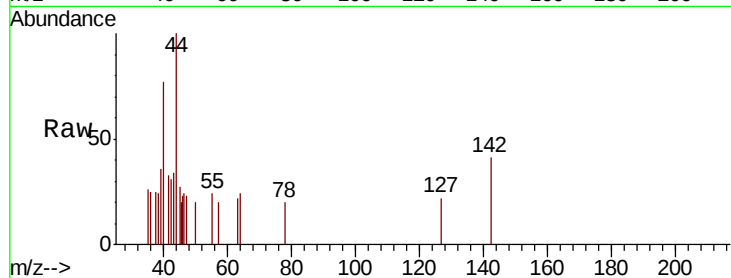




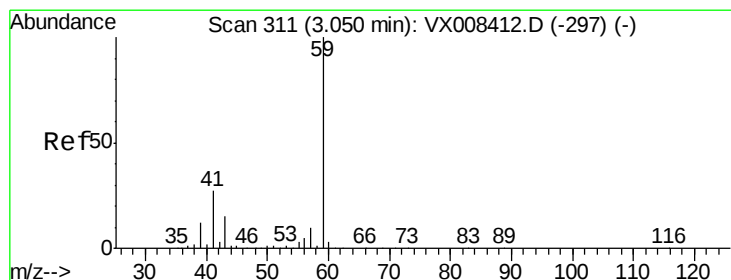
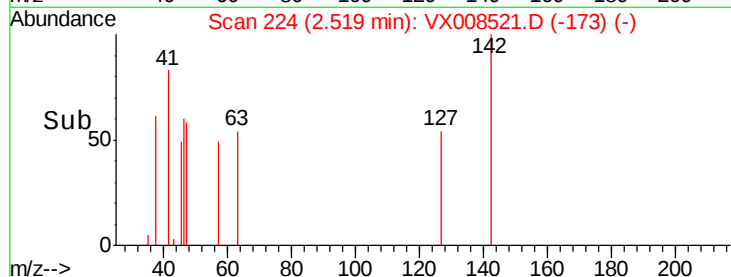
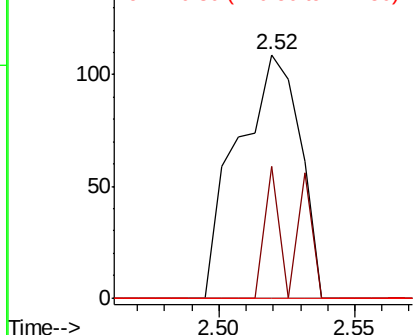
#10  
Methvl Iodide  
Concen: 4.193 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
QNWP8-MW30S-GW

Tot Ion:142 Resp: 173  
Ion Ratio Lower Upper  
142 100  
127 24.3 33.6 50.4#  
141 0.0 11.3 16.9#

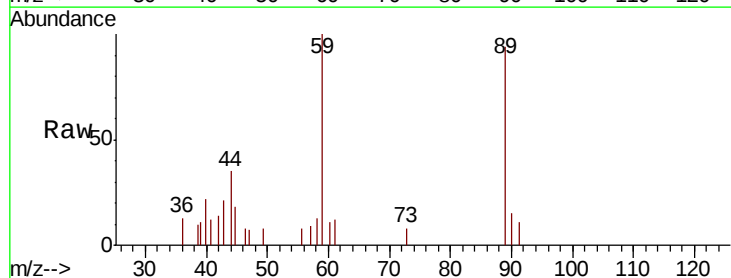


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

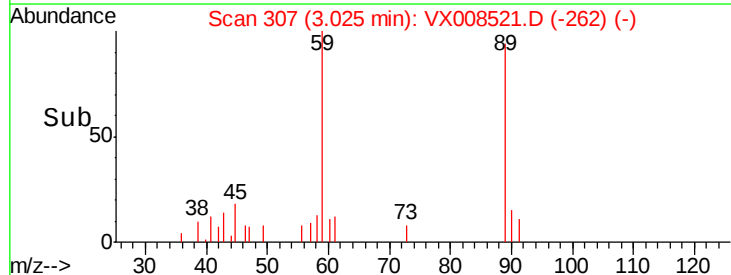
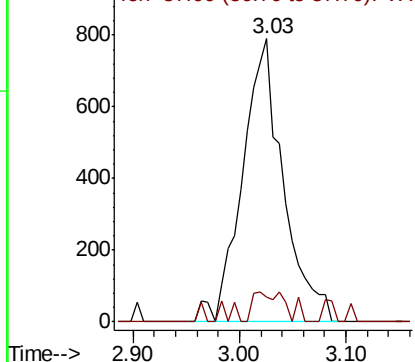


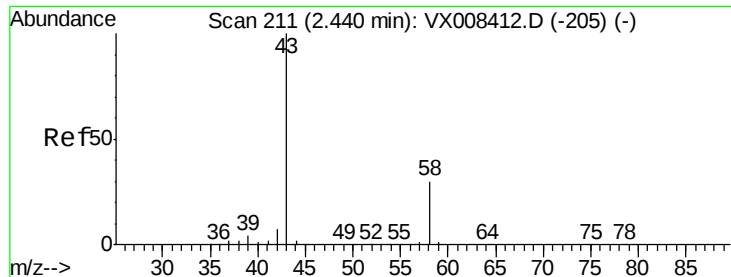
#11  
Tert butyl alcohol  
Concen: 2.802 ug/l  
RT: 3.03 min Scan# 307  
Delta R.T. -0.02 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Tgt Ion: 59 Resp: 2129  
Ion Ratio Lower Upper  
59 100  
57 7.4 8.2 12.4#



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





#16

Acetone

Concen: 2.303 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

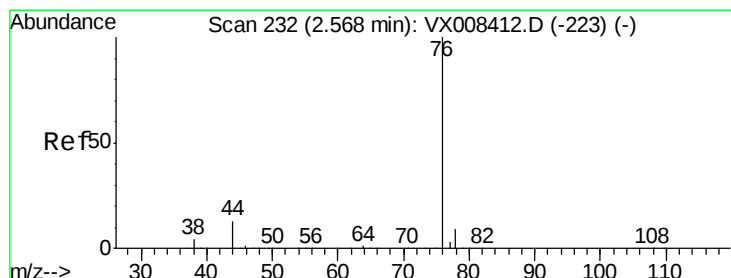
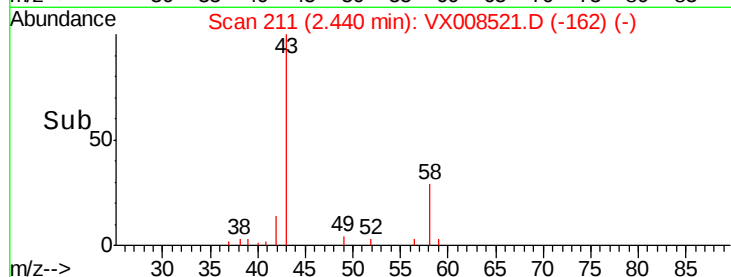
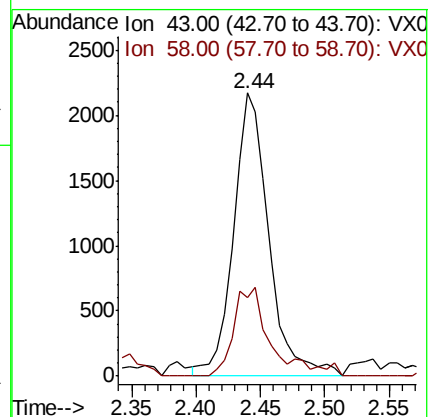
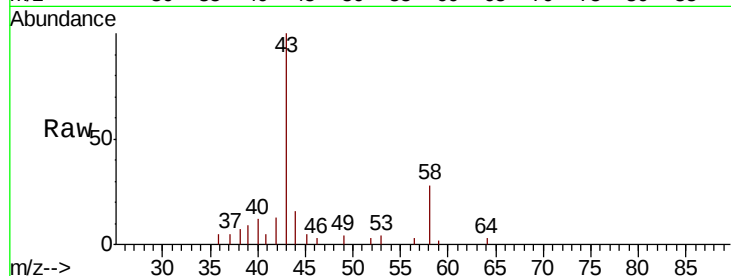
QNWP8-MW30S-GW

Tot Ion: 43 Resp: 4128

Ion Ratio Lower Upper

43 100

58 27.7 24.2 36.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008521.D

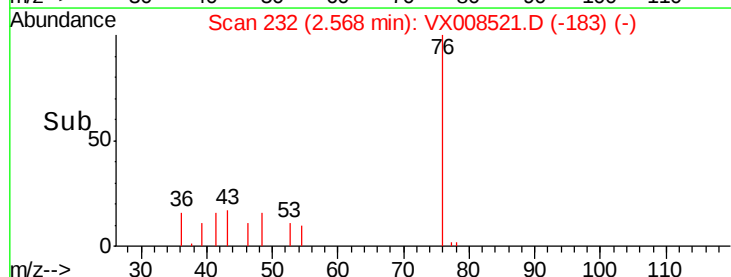
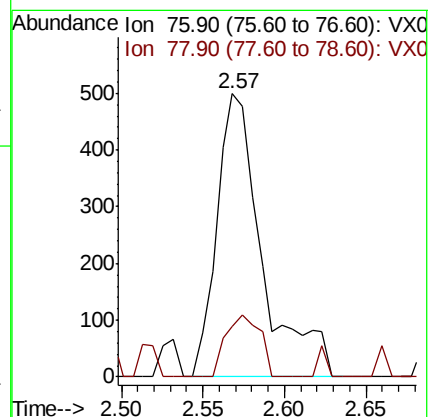
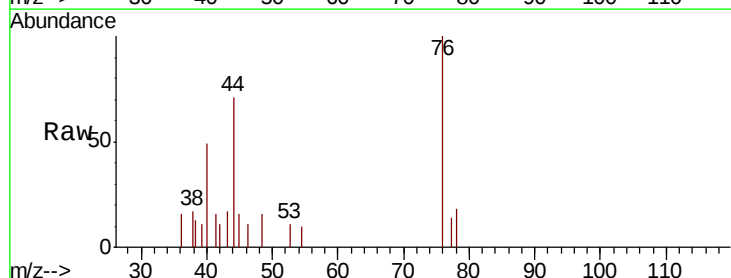
Acq: 28 Mar 2019 15:50

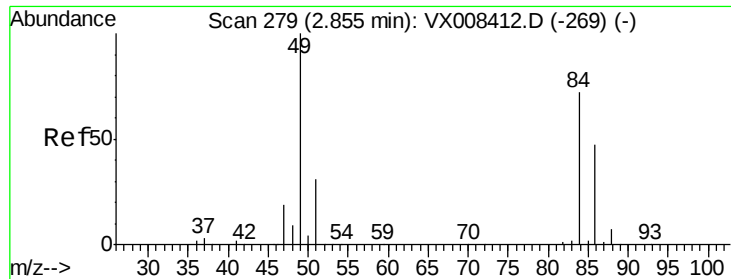
Tgt Ion: 76 Resp: 971

Ion Ratio Lower Upper

76 100

78 18.0 7.4 11.2#

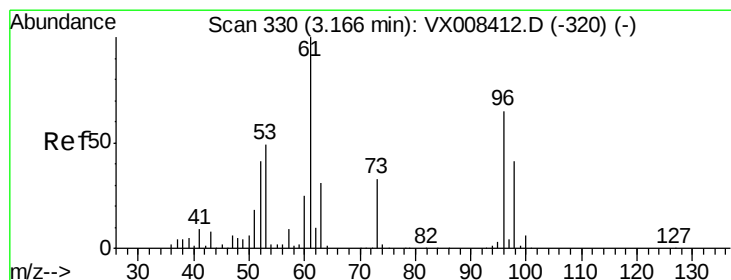
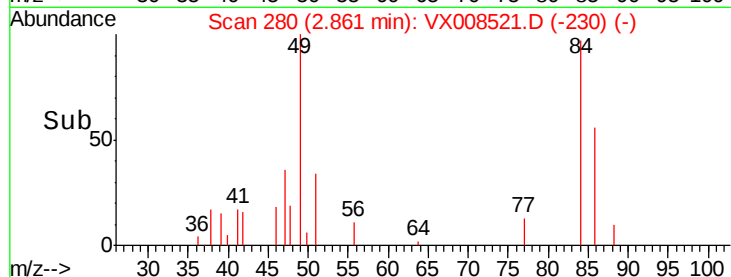
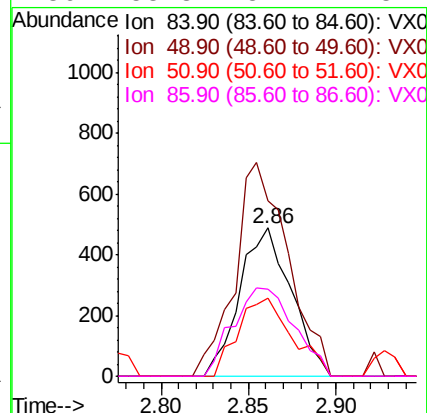
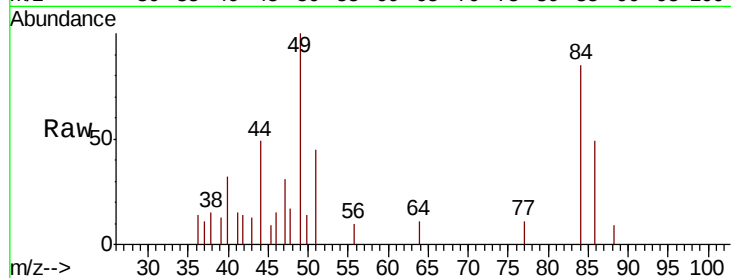




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

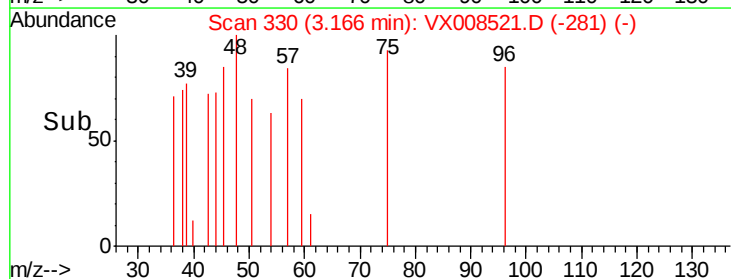
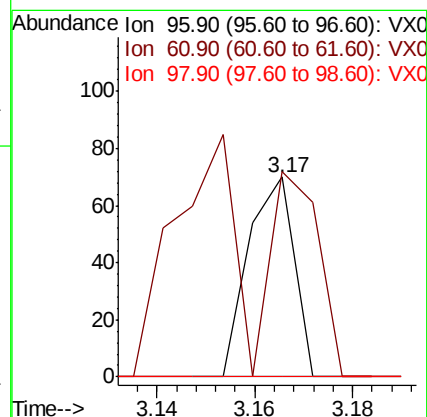
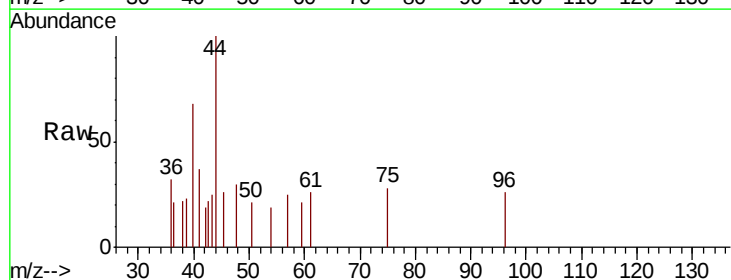
Instrument :  
MSVOA\_X  
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QNWP8-MW30S-GW

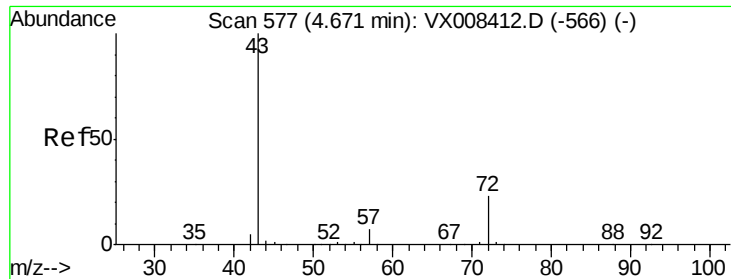
Tot Ion: 84 Resp: 1007  
Ion Ratio Lower Upper  
84 100  
49 118.0 110.6 165.8  
51 53.0 33.9 50.9#  
86 58.3 52.2 78.2



#21  
trans-1,2-Dichloroethene  
Concen: Below Cal  
RT: 3.17 min Scan# 330  
Delta R.T. 0.00 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Tgt Ion: 96 Resp: 45  
Ion Ratio Lower Upper  
96 100  
61 102.9 122.6 184.0#  
98 0.0 50.9 76.3#

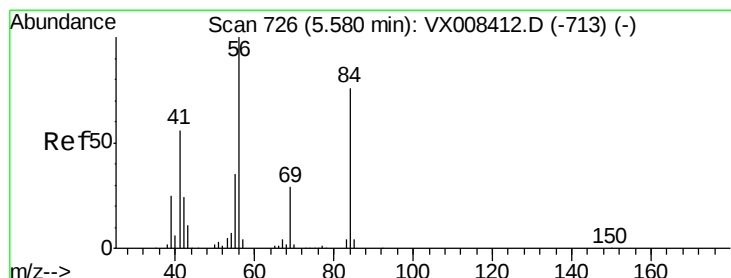
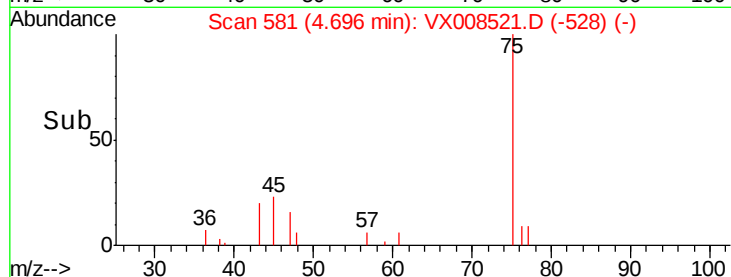
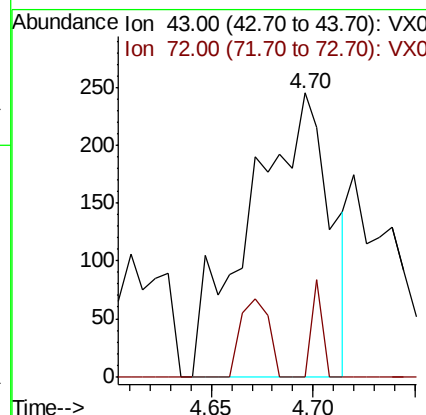
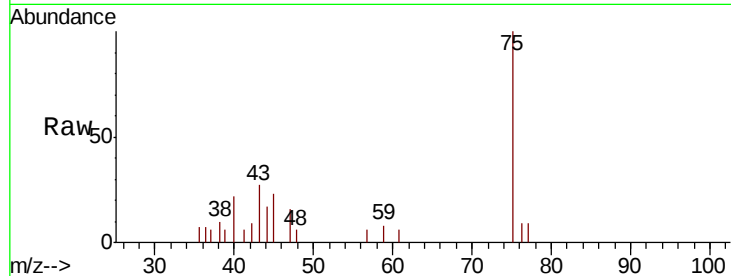




#25  
2-Butanone  
Concen: 0.232 ug/l  
RT: 4.70 min Scan# 581  
Delta R.T. 0.02 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

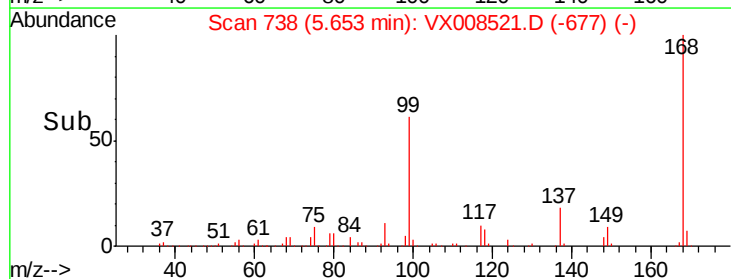
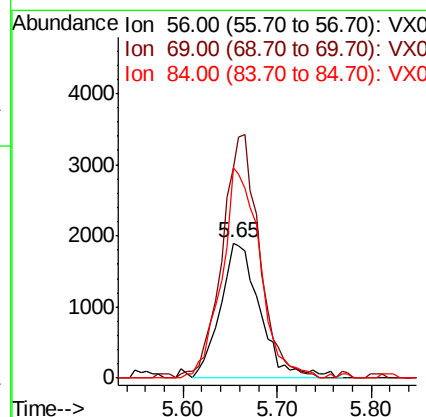
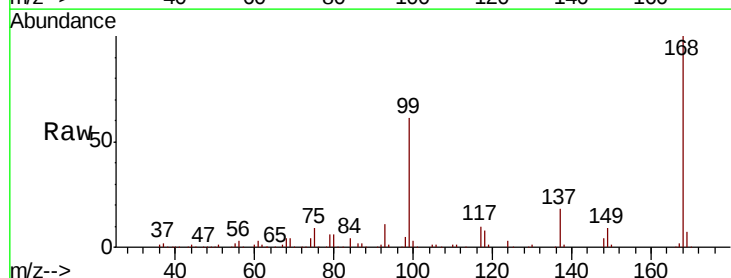
Instrument :  
MSVOA\_X  
ClientSampleId :  
QNWP8-MW30S-GW

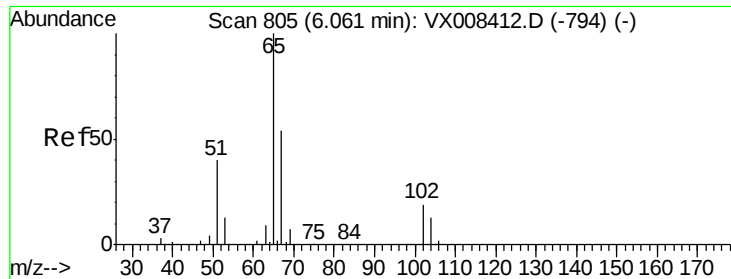
Tot Ion: 43 Resp: 668  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.6 28.0#



#31  
Cyclohexane  
Concen: 1.011 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.07 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Tgt Ion: 56 Resp: 5560  
Ion Ratio Lower Upper  
56 100  
69 151.1 23.2 34.8#  
84 153.4 60.7 91.1#





#33

1,2-Dichloroethane-d4

Concen: 46.375 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

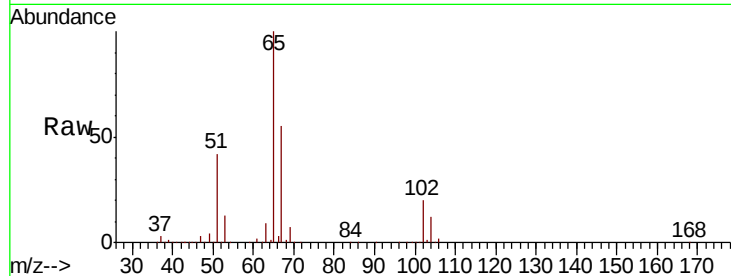
QNWP8-MW30S-GW

Tot Ion: 65 Resp: 159059

Ion Ratio Lower Upper

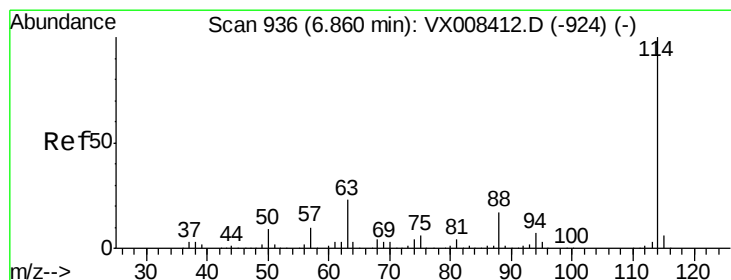
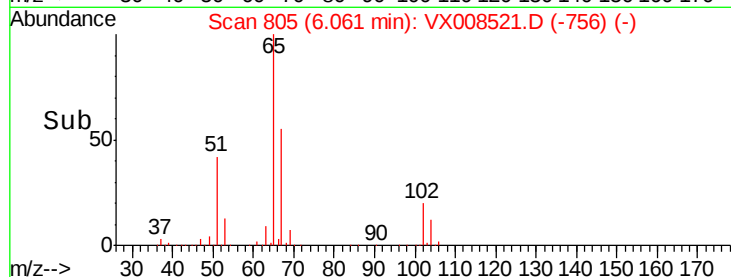
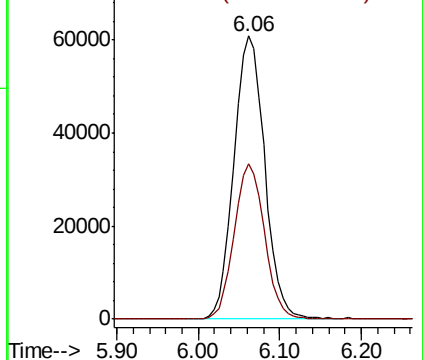
65 100

67 54.1 0.0 109.4



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

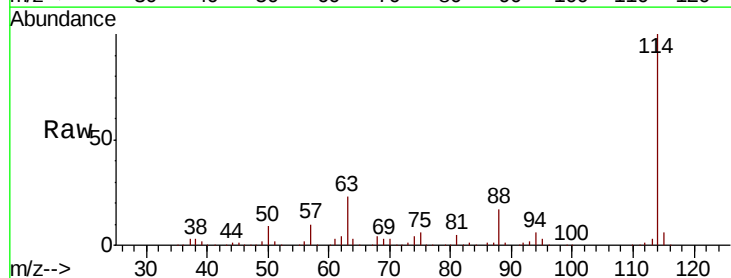
Tgt Ion: 114 Resp: 380255

Ion Ratio Lower Upper

114 100

63 22.6 0.0 46.4

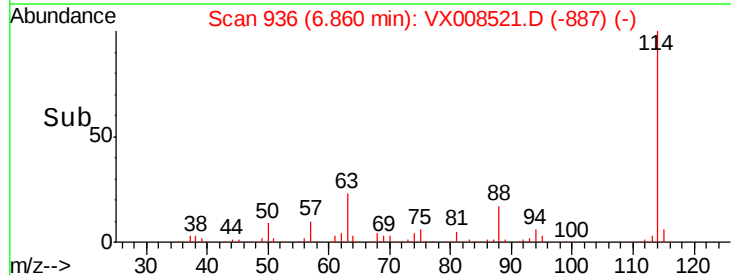
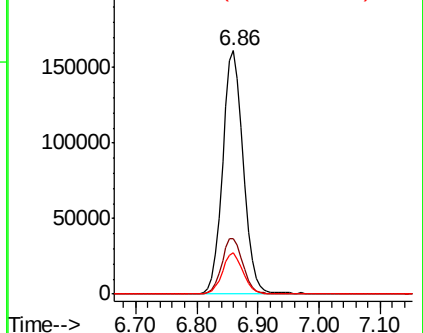
88 16.8 0.0 33.2

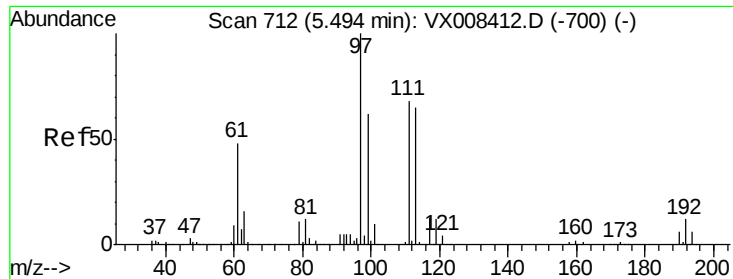


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

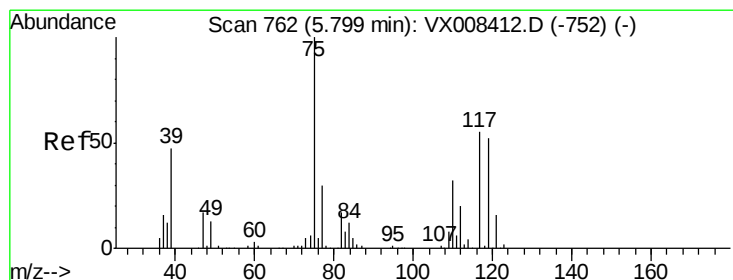
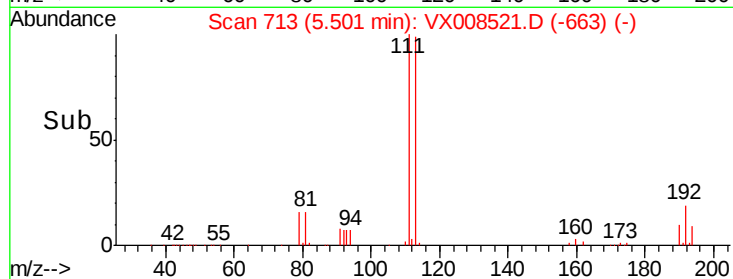
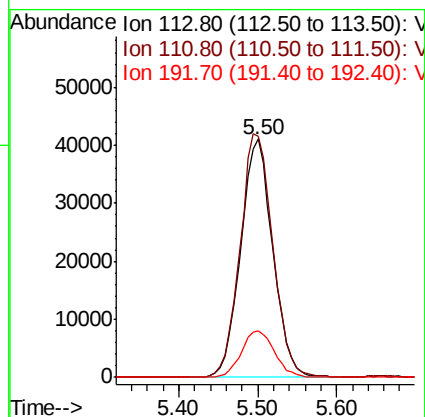
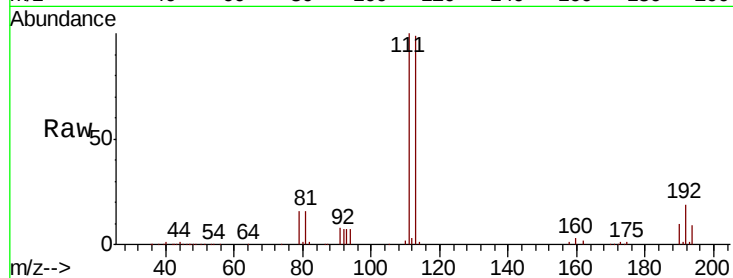




#35  
Dibromofluoromethane  
Concen: 46.821 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.01 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

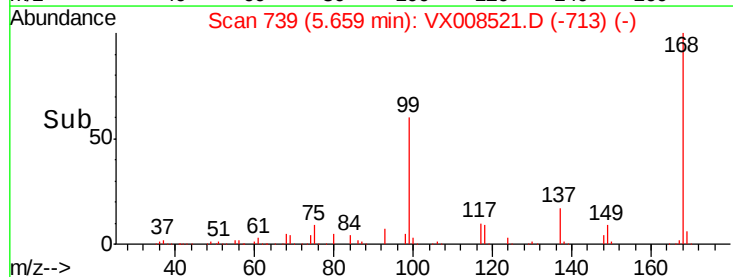
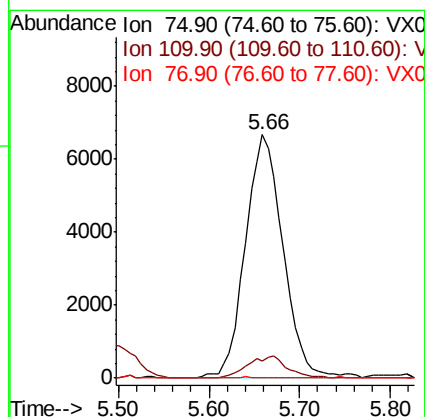
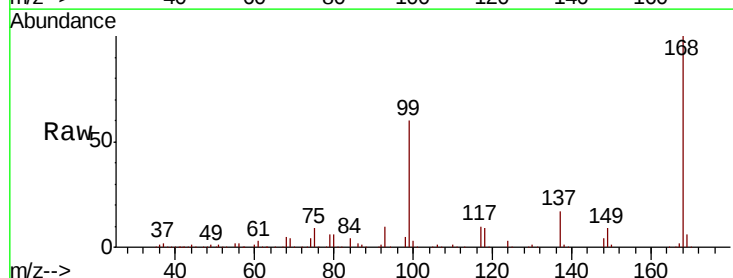
Instrument :  
MSVOA\_X  
ClientSampleId :  
QNWP8-MW30S-GW

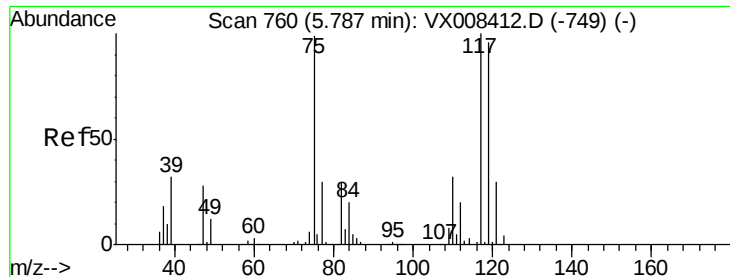
Tot Ion:113 Resp: 116090  
Ion Ratio Lower Upper  
113 100  
111 104.4 83.0 124.4  
192 20.2 15.6 23.4



#36  
1,1-Dichloropropene  
Concen: 4.707 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.14 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Tgt Ion: 75 Resp: 19084  
Ion Ratio Lower Upper  
75 100  
110 9.7 16.6 49.7#  
77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.768 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

QNWP8-MW30S-GW

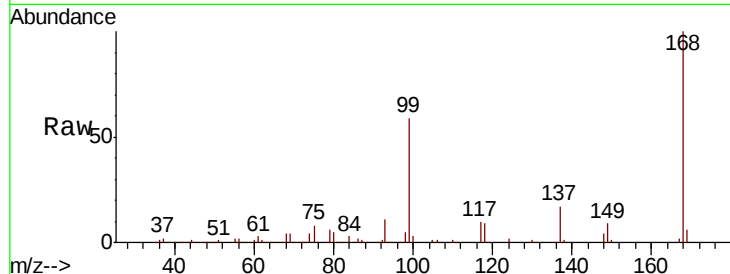
Tot Ion:117 Resp: 22901

Ion Ratio Lower Upper

117 100

119 4.3 76.7 115.1#

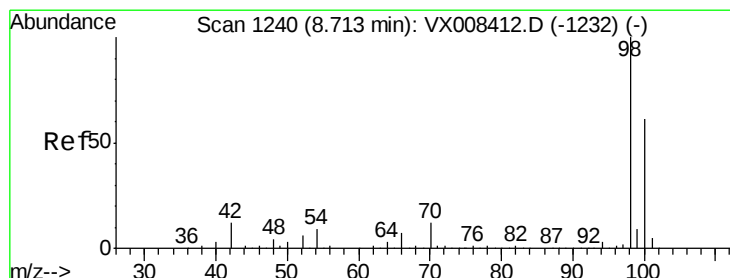
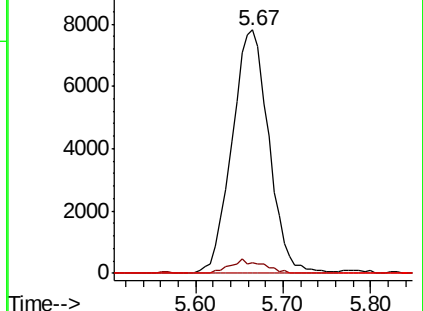
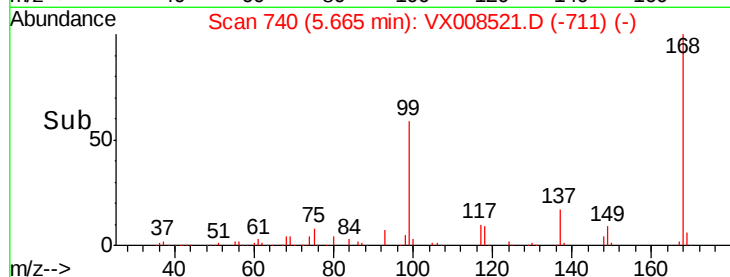
121 0.0 24.3 36.5#



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: 47.855 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008521.D

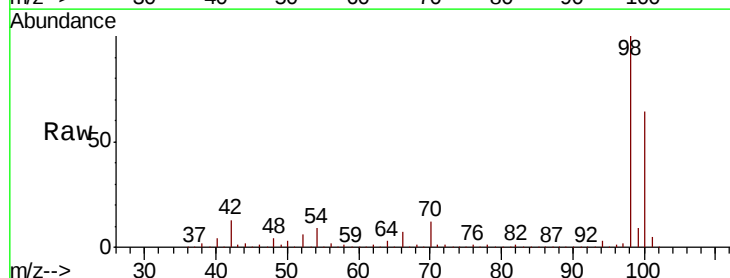
Acq: 28 Mar 2019 15:50

Tgt Ion: 98 Resp: 474451

Ion Ratio Lower Upper

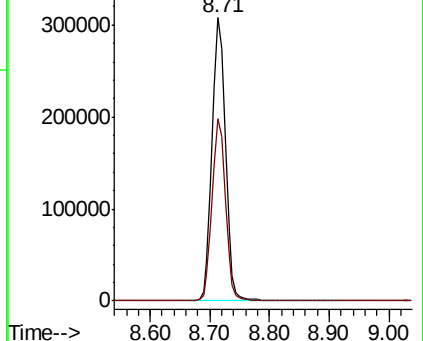
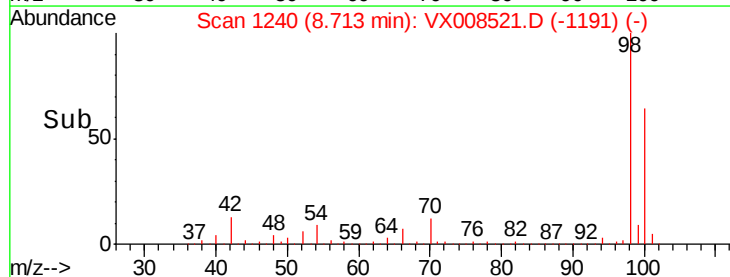
98 100

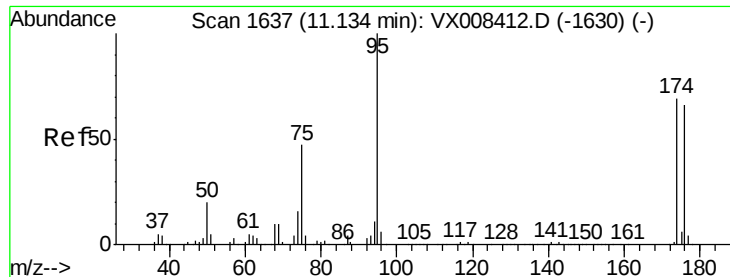
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

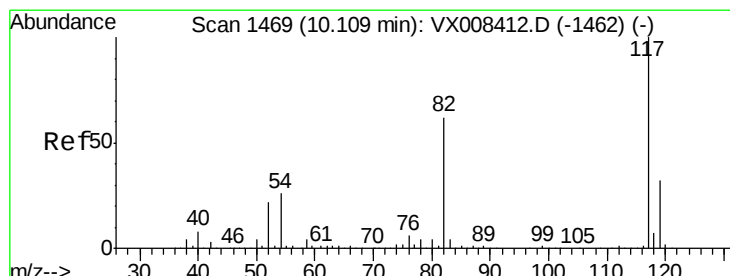
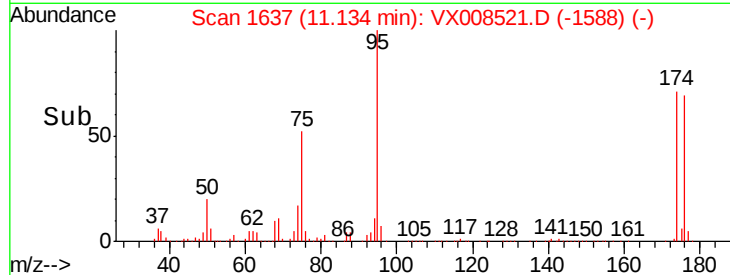
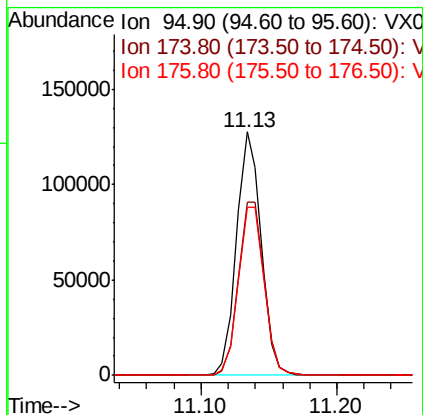
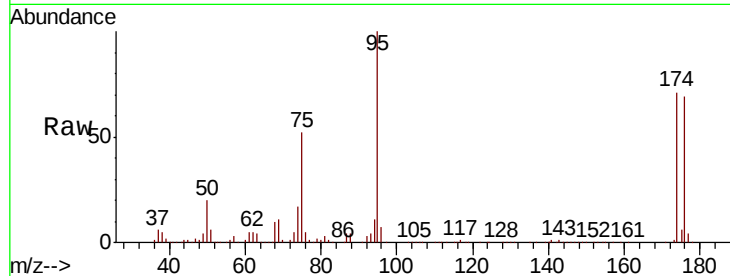




#62  
4-Bromofluorobenzene  
Concen: 43.770 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

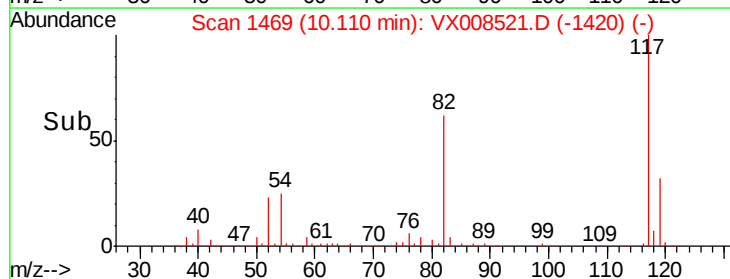
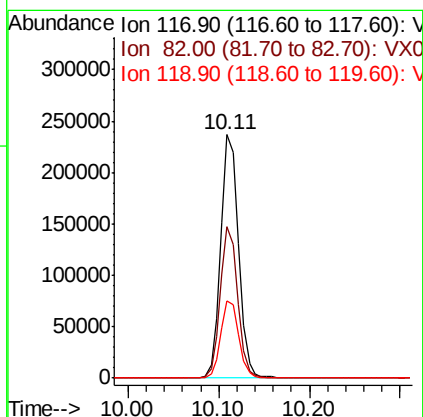
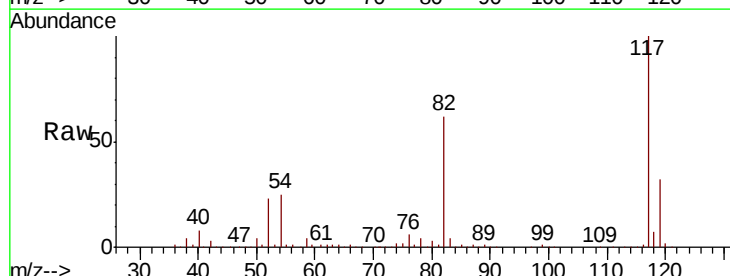
Instrument :  
MSVOA\_X  
ClientSampleId :  
QNWP8-MW30S-GW

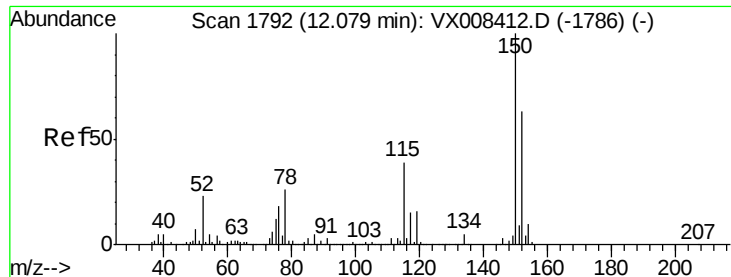
Tot Ion: 95 Resp: 160805  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 147.2  
176 72.7 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008521.D  
Acq: 28 Mar 2019 15:50

Tgt Ion: 117 Resp: 324992  
Ion Ratio Lower Upper  
117 100  
82 62.0 49.4 74.2  
119 31.6 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

QNWP8-MW30S-GW

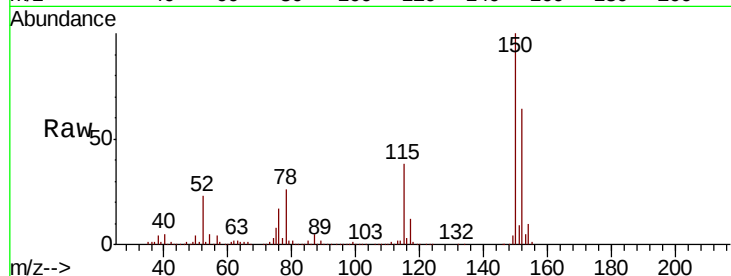
Tot Ion:152 Resp: 137536

Ion Ratio Lower Upper

152 100

115 61.1 43.5 130.5

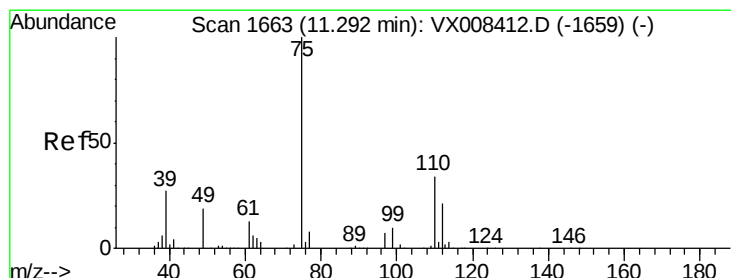
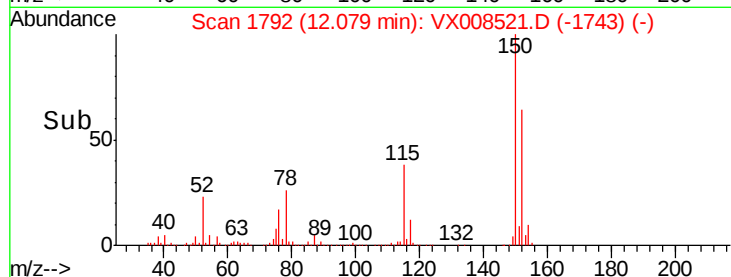
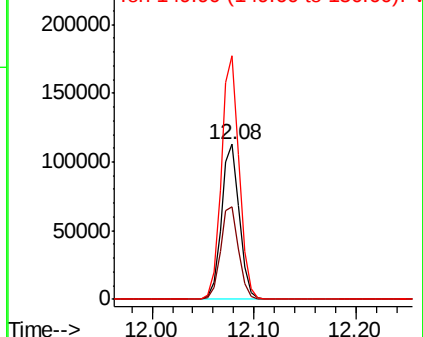
150 157.0 0.0 348.8



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: 20.135 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008521.D

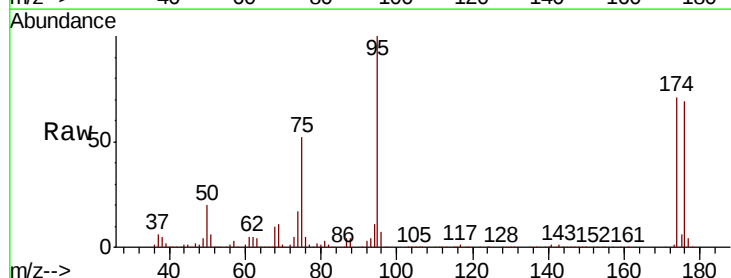
Acq: 28 Mar 2019 15:50

Tgt Ion: 75 Resp: 82327

Ion Ratio Lower Upper

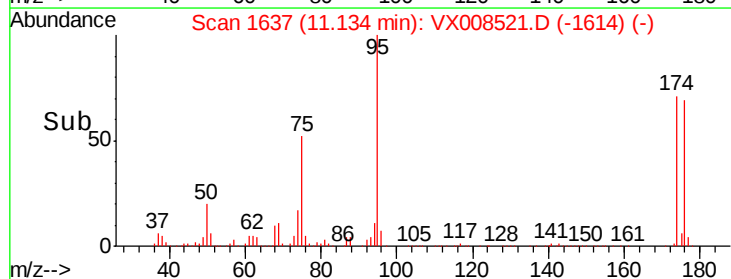
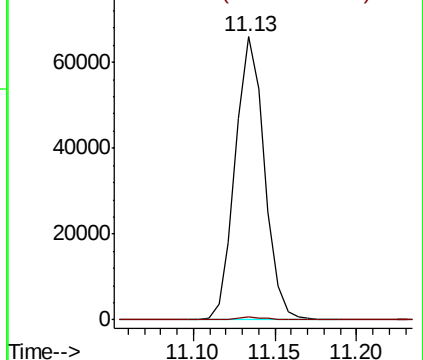
75 100

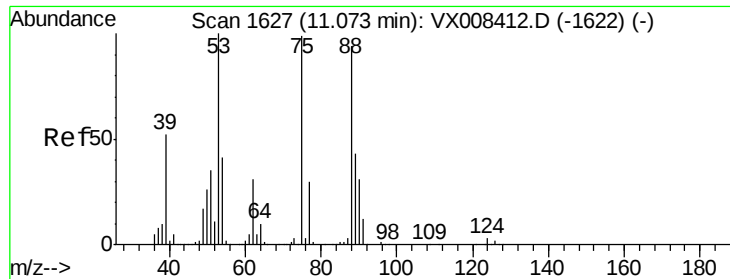
77 1.2 21.9 65.7#



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: 64.488 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

Instrument :

MSVOA\_X

ClientSampleId :

QNWP8-MW30S-GW

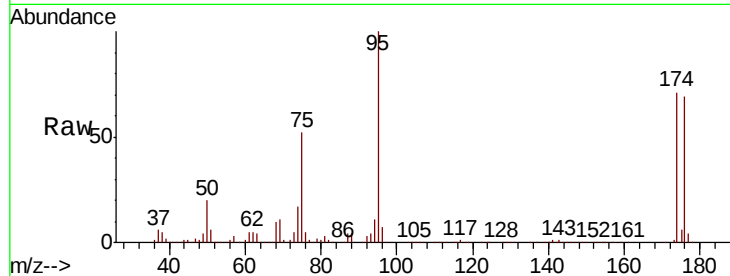
Tot Ion: 75 Resp: 82327

Ion Ratio Lower Upper

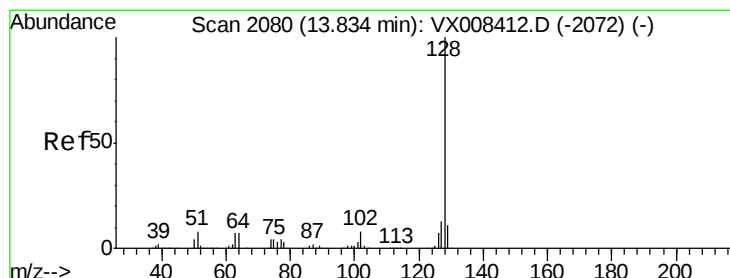
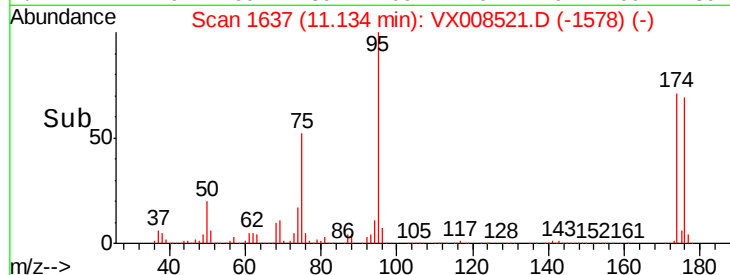
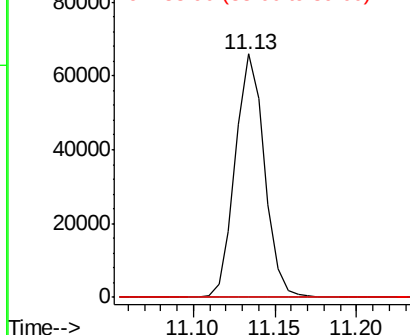
75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#



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



#95

Naphthalene

Concen: 1.617 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008521.D

Acq: 28 Mar 2019 15:50

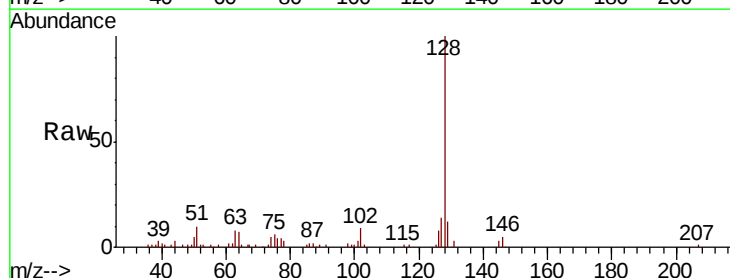
Tgt Ion:128 Resp: 18131

Ion Ratio Lower Upper

128 100

127 14.0 10.4 15.6

129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

