

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\  
 Data File : VX005569.D  
 Acq On : 25 Oct 2018 04:31  
 Operator : JC/MD  
 Sample : J5647-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 NB-MTB

Quant Time: Oct 25 05:58:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 24 13:13:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 208557   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 318709   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 289227   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 136716   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 136433   | 53.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.18% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 109310   | 50.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.30% |          |
| 50) Toluene-d8              | 8.71  | 98   | 383123   | 49.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.82%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 124612   | 42.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.10%  |          |

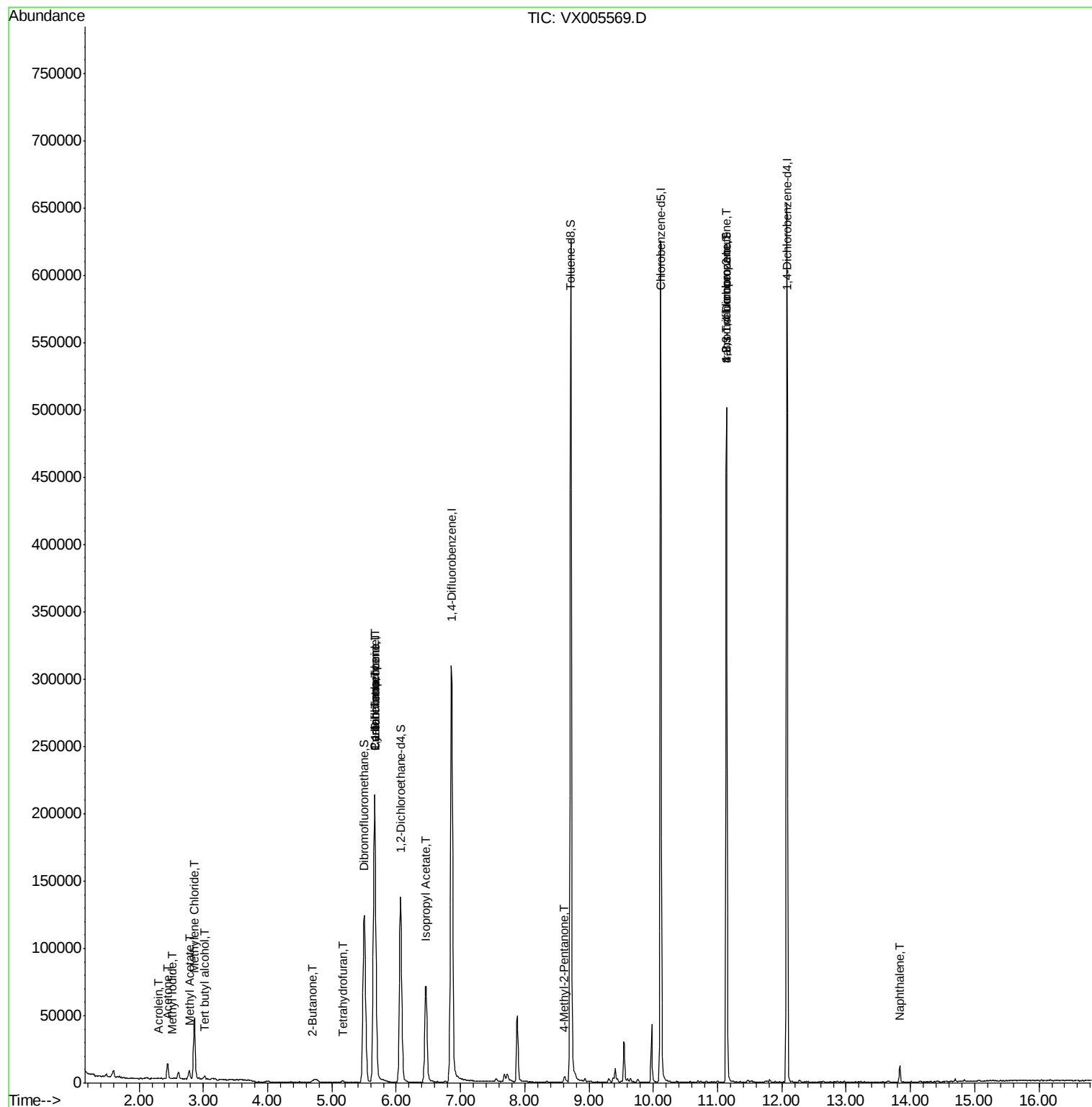
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) Methyl Iodide              | 2.51  | 142  | 19       | 2.734  | ug/l # | 41     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 1743     | 2.544  | ug/l # | 78     |
| 13) Acrolein                   | 2.29  | 56   | 147      | 0.421  | ug/l # | 82     |
| 16) Acetone                    | 2.45  | 43   | 13383    | 9.948  | ug/l   | 98     |
| 18) Methyl Acetate             | 2.78  | 43   | 8405     | 1.100  | ug/l   | 93     |
| 20) Methylene Chloride         | 2.86  | 84   | 19357    | 8.591  | ug/l # | 89     |
| 25) 2-Butanone                 | 4.69  | 43   | 3360     | 1.640  | ug/l # | 78     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1085     | 0.814  | ug/l # | 86     |
| 31) Cyclohexane                | 5.67  | 56   | 4290     | 1.250  | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14673    | 4.744  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 19519    | 5.992  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 100498   | 16.992 | ug/l   | 95     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1915     | 0.482  | ug/l # | 44     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 63678    | 22.867 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 63678    | 71.830 | ug/l # | 10     |
| 95) Naphthalene                | 13.83 | 128  | 7583     | 0.812  | ug/l   | 98     |

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

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Sample : J5647-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
NB-MTB

Quant Time: Oct 25 05:58:45 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 24 13:13:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

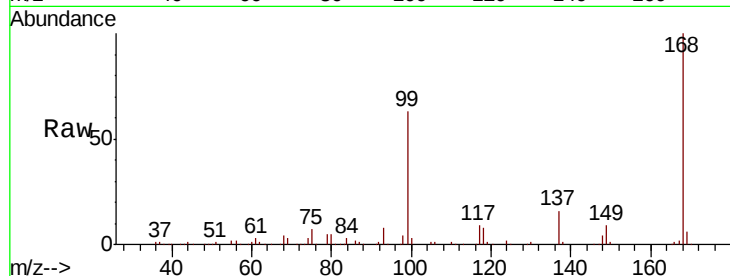
NB-MTB

Tot Ion:168 Resp: 208557

Ion Ratio Lower Upper

168 100

99 62.7 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

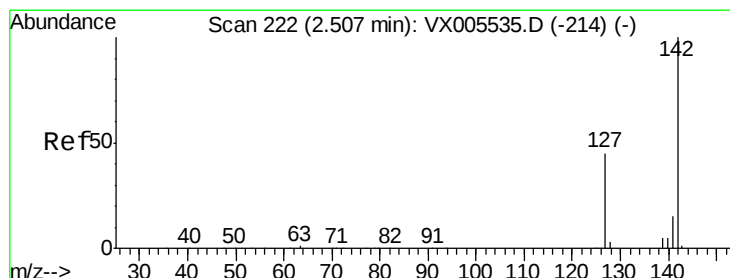
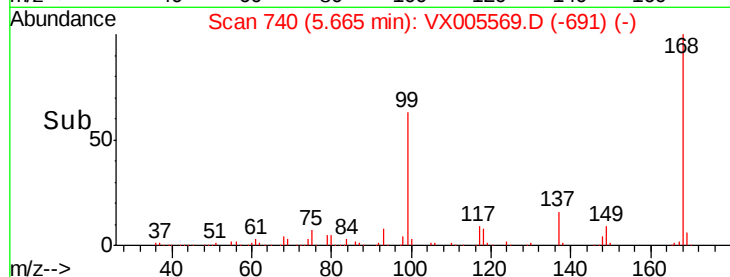
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 2.734 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

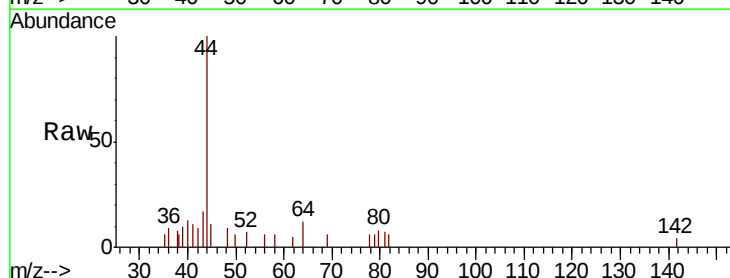
Tgt Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

141 0.0 11.4 17.0#



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

2.51

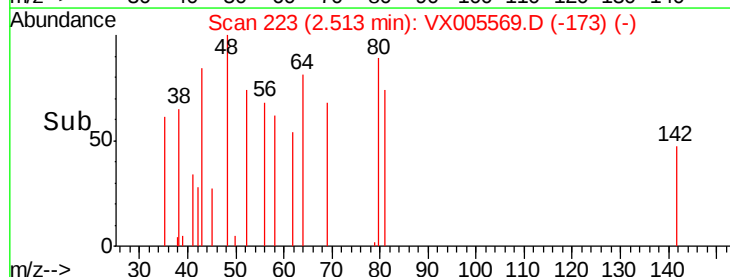
60

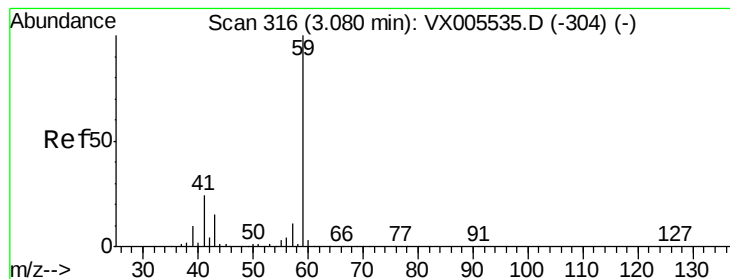
40

20

0

Time--> 2.49 2.50 2.51 2.52 2.53



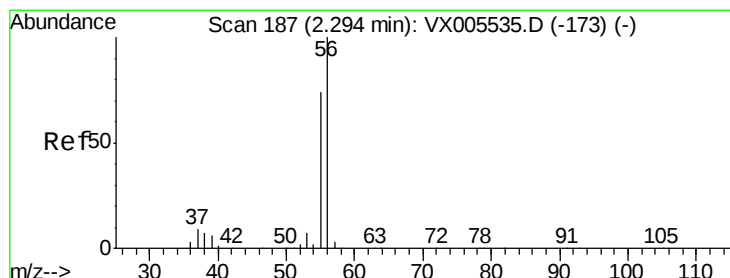
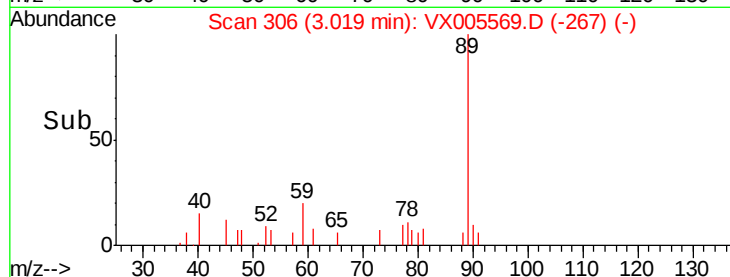
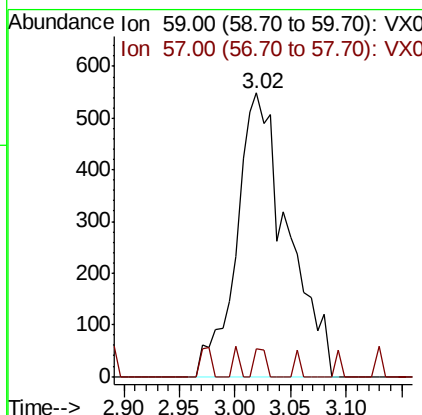
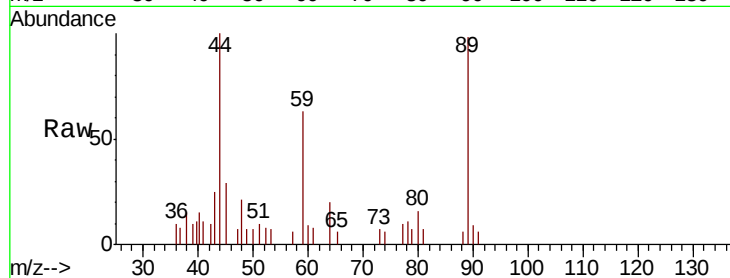


#11

Tert butyl alcohol  
 Concen: 2.544 ug/l  
 RT: 3.02 min Scan# 306  
 Delta R.T. -0.06 min  
 Lab File: VX005569.D  
 Acq: 25 Oct 2018 04:31

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 NB-MTB

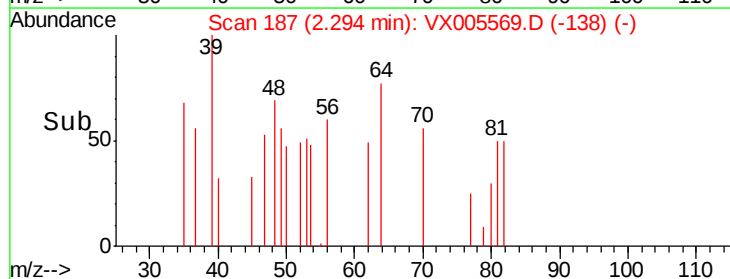
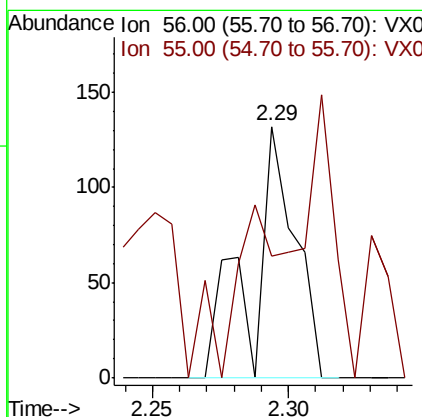
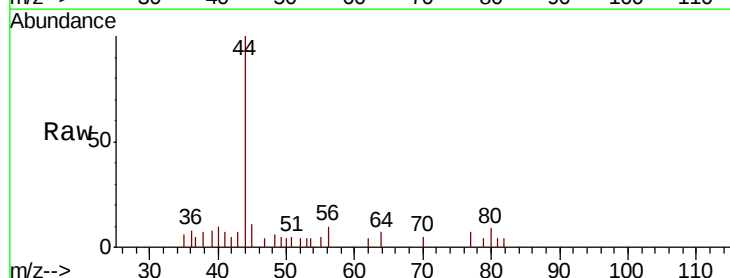
Tot Ion: 59 Resp: 1743  
 Ion Ratio Lower Upper  
 59 100  
 57 2.2 8.2 12.4#

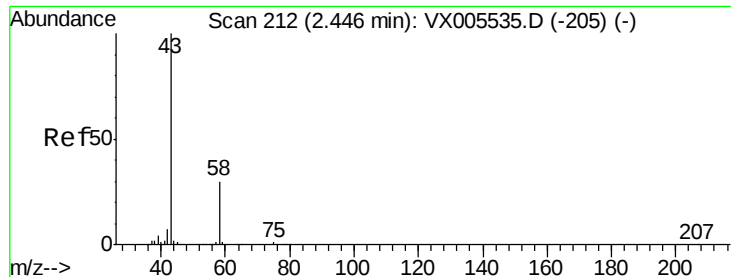


#13

Acrolein  
 Concen: 0.421 ug/l  
 RT: 2.29 min Scan# 187  
 Delta R.T. -0.00 min  
 Lab File: VX005569.D  
 Acq: 25 Oct 2018 04:31

Tgt Ion: 56 Resp: 147  
 Ion Ratio Lower Upper  
 56 100  
 55 53.7 54.7 82.1#





#16

Acetone

Concen: 9.948 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

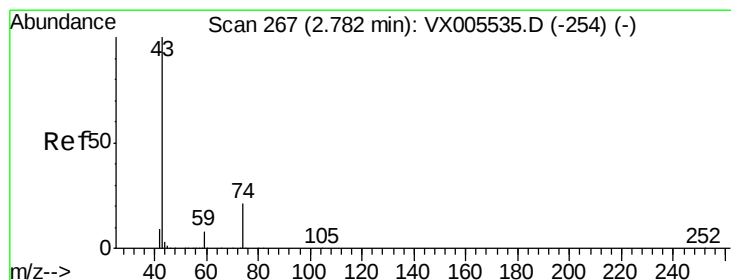
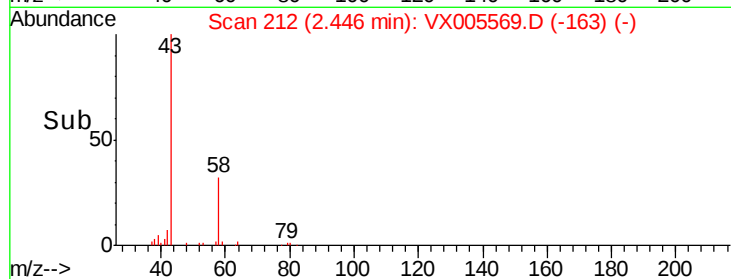
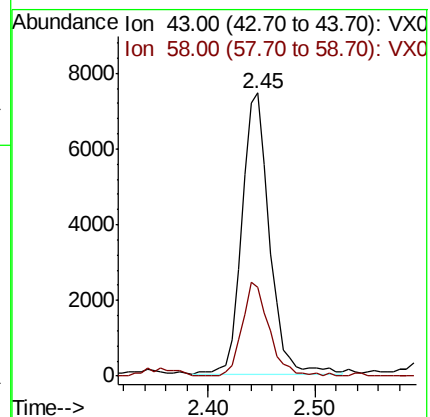
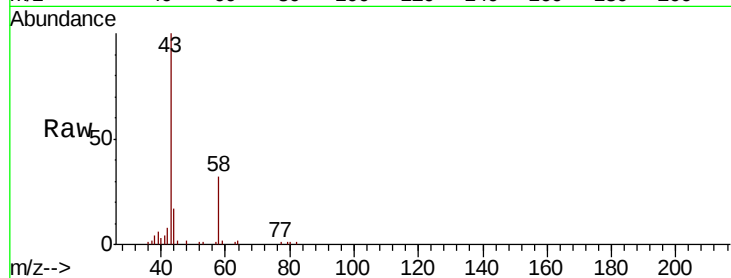
NB-MTB

Tot Ion: 43 Resp: 13383

Ion Ratio Lower Upper

43 100

58 31.8 26.2 39.4



#18

Methyl Acetate

Concen: 1.100 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005569.D

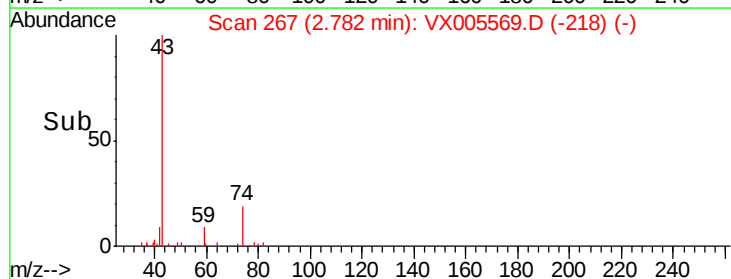
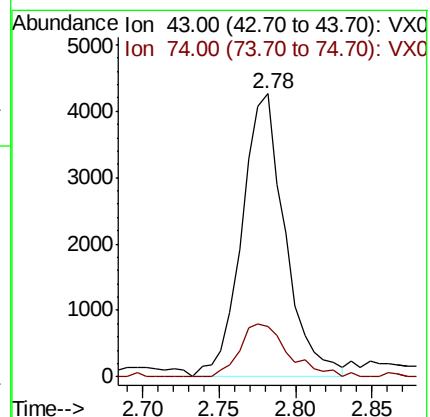
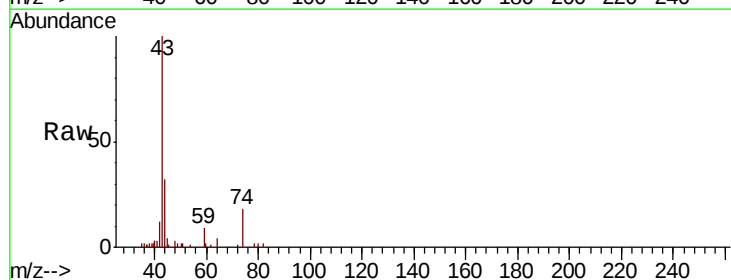
Acq: 25 Oct 2018 04:31

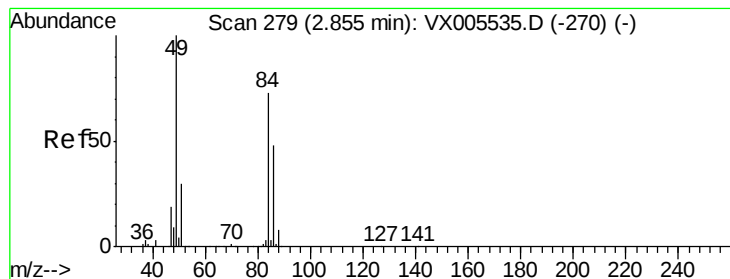
Tgt Ion: 43 Resp: 8405

Ion Ratio Lower Upper

43 100

74 20.9 19.4 29.2





#20

Methvlene Chloride

Concen: 8.591 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

NB-MTB

Tot Ion: 84 Resp: 19357

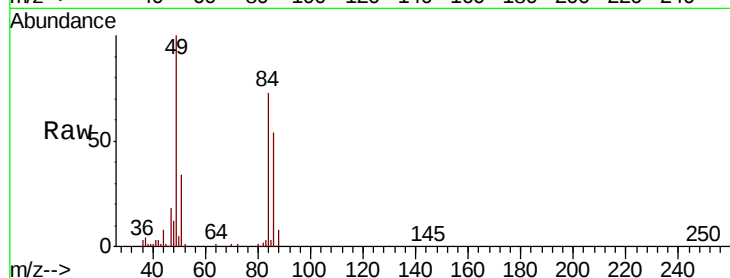
Ion Ratio Lower Upper

84 100

49 137.7 101.2 151.8

51 46.5 29.5 44.3#

86 73.7 52.3 78.5

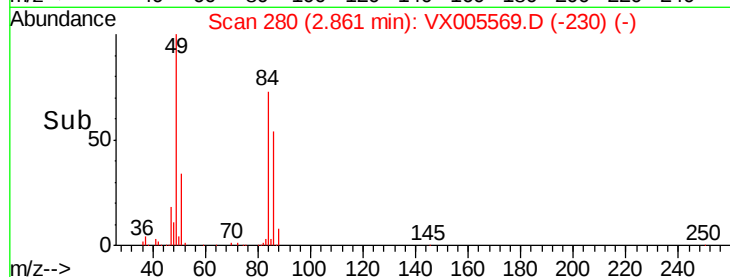
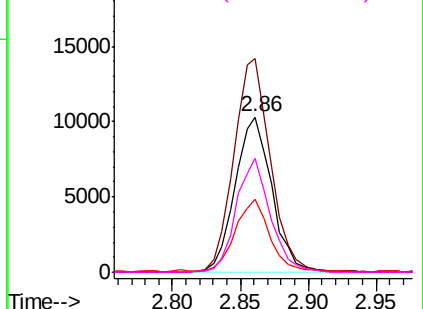


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.640 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.01 min

Lab File: VX005569.D

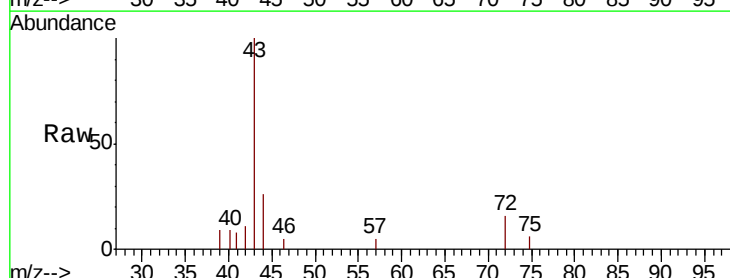
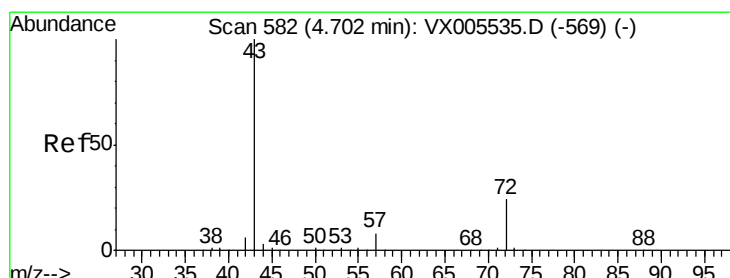
Acq: 25 Oct 2018 04:31

Tgt Ion: 43 Resp: 3360

Ion Ratio Lower Upper

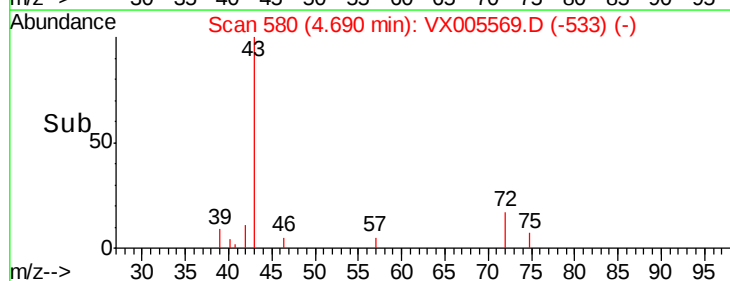
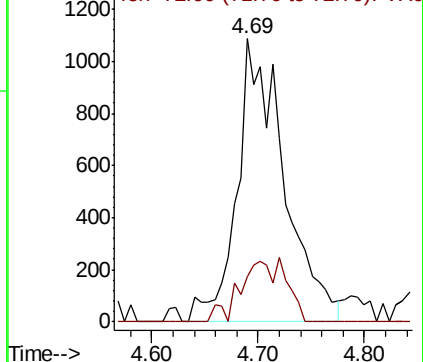
43 100

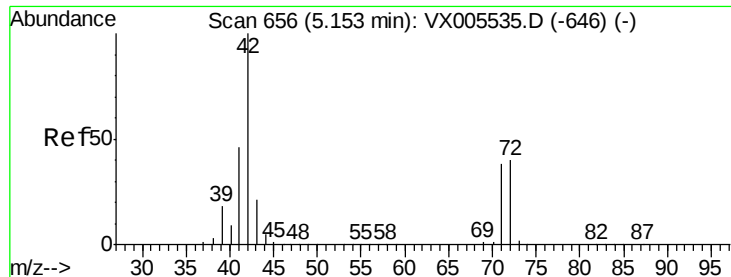
72 15.9 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

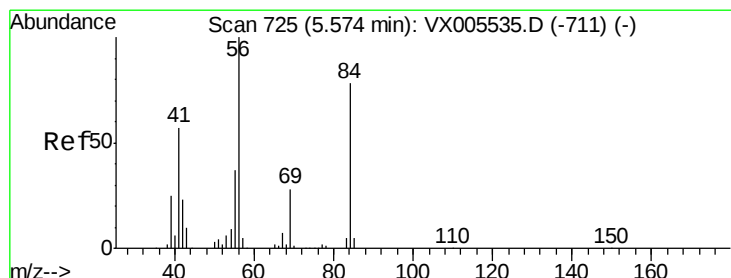
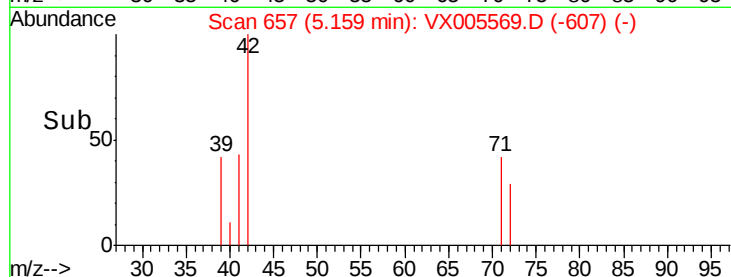
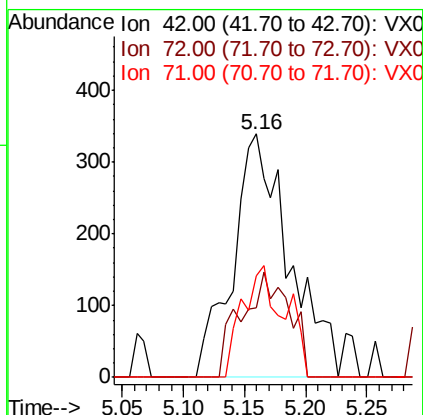
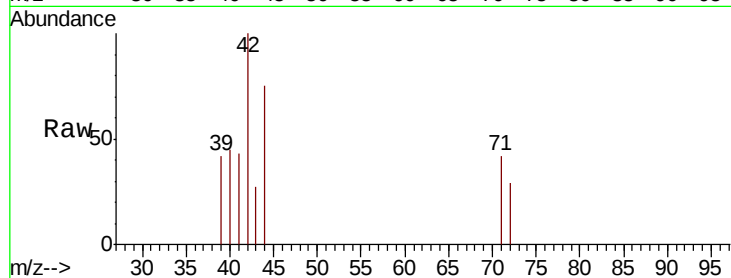




#29  
Tetrahydrofuran  
Concen: 0.814 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX005569.D  
Acq: 25 Oct 2018 04:31

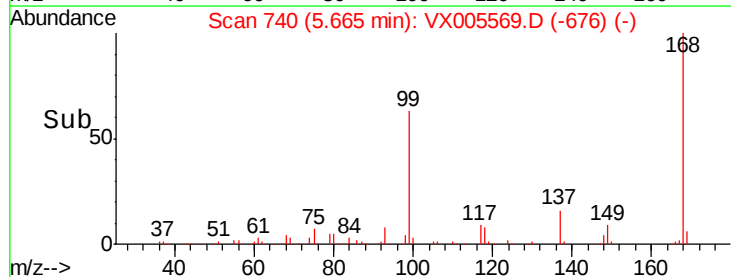
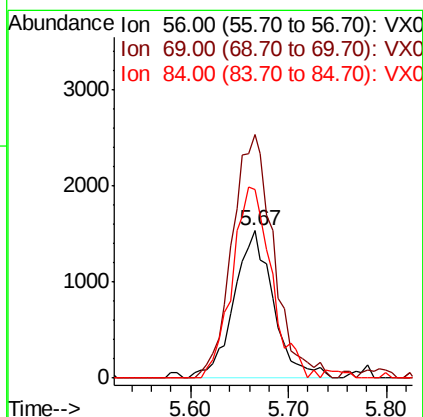
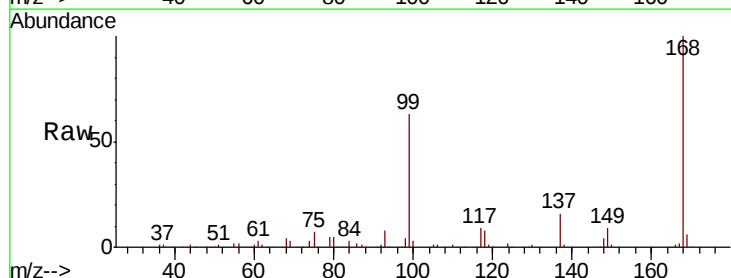
Instrument :  
MSVOA\_X  
ClientSampleId :  
NB-MTB

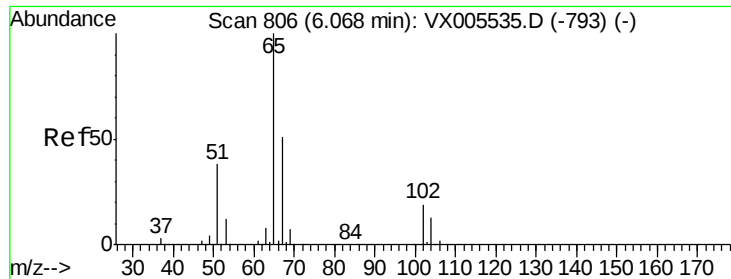
Tot Ion: 42 Resp: 1085  
Ion Ratio Lower Upper  
42 100  
72 36.8 37.4 56.0#  
71 34.1 34.5 51.7#



#31  
Cyclohexane  
Concen: 1.250 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.09 min  
Lab File: VX005569.D  
Acq: 25 Oct 2018 04:31

Tgt Ion: 56 Resp: 4290  
Ion Ratio Lower Upper  
56 100  
69 165.3 25.4 38.2#  
84 128.1 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 53.591 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

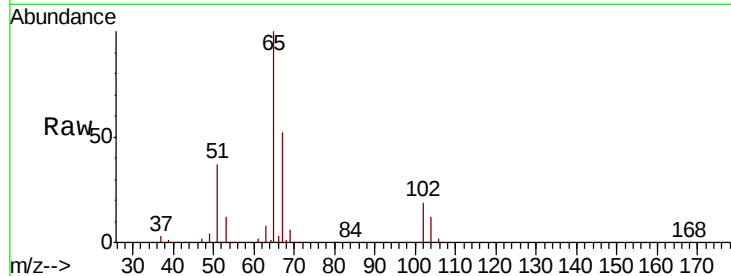
NB-MTB

Tot Ion: 65 Resp: 136433

Ion Ratio Lower Upper

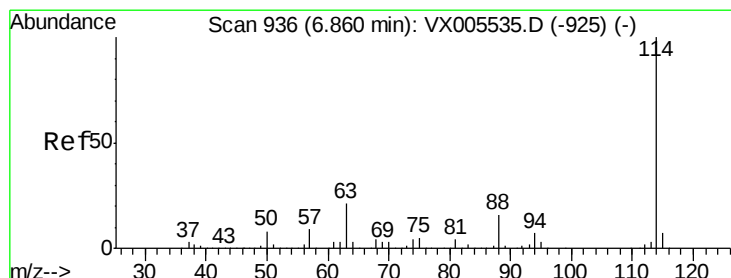
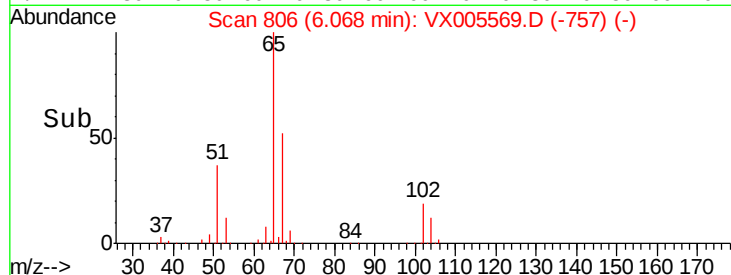
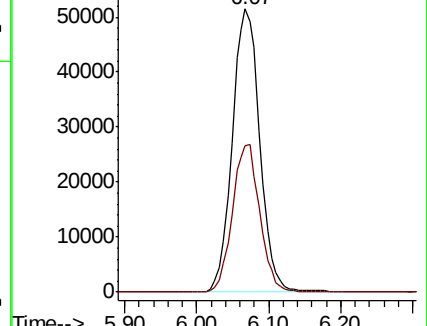
65 100

67 52.0 0.0 106.8



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: VX005569.D

Acq: 25 Oct 2018 04:31

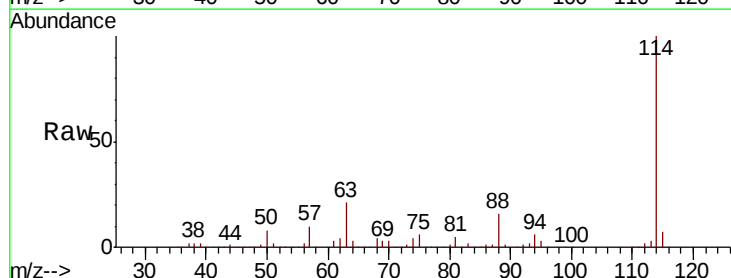
Tgt Ion: 114 Resp: 318709

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.0

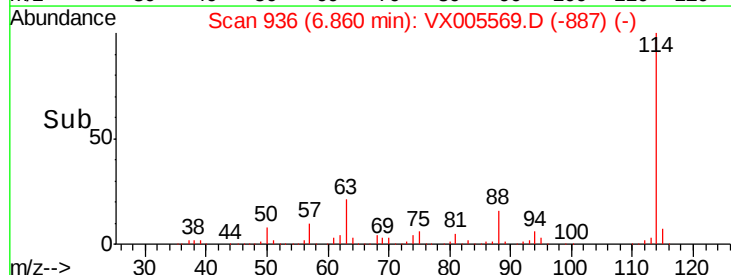
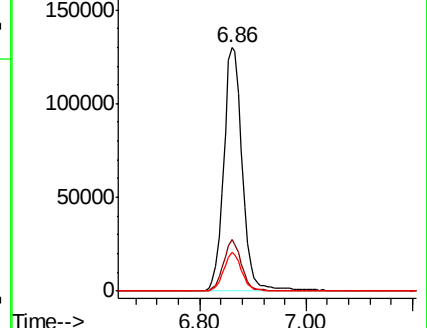
88 16.0 0.0 30.4

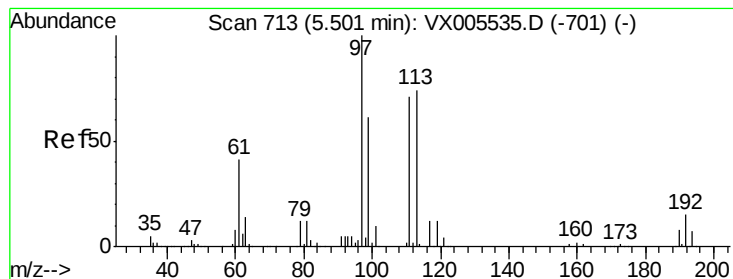


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.653 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampled :

NB-MTB

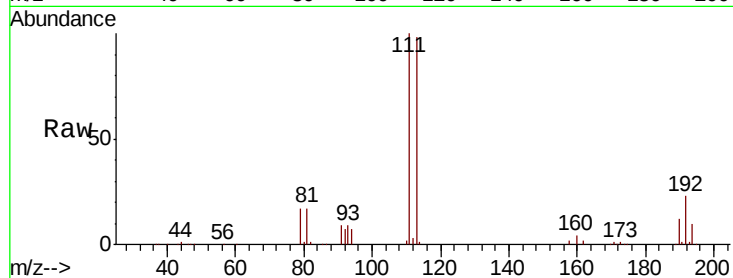
Tot Ion:113 Resp: 109310

Ion Ratio Lower Upper

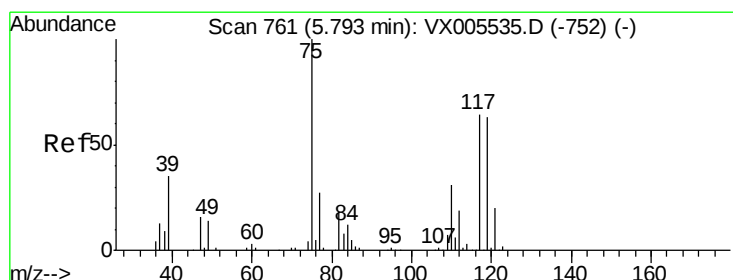
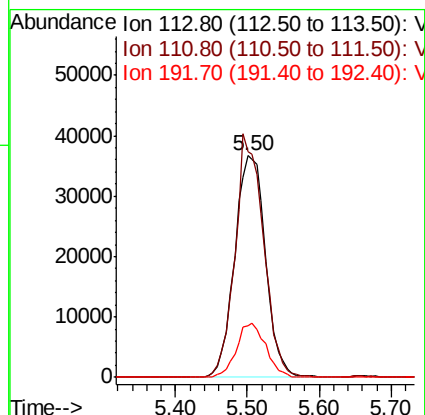
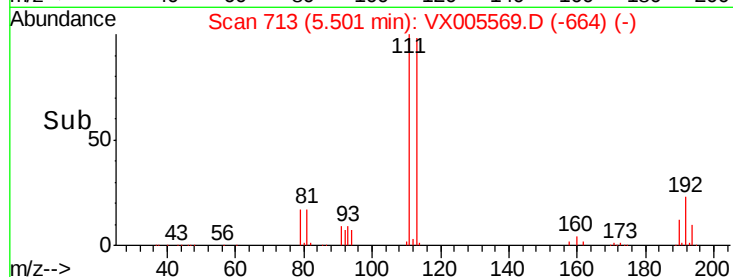
113 100

111 100.9 82.4 123.6

192 23.2 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.744 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

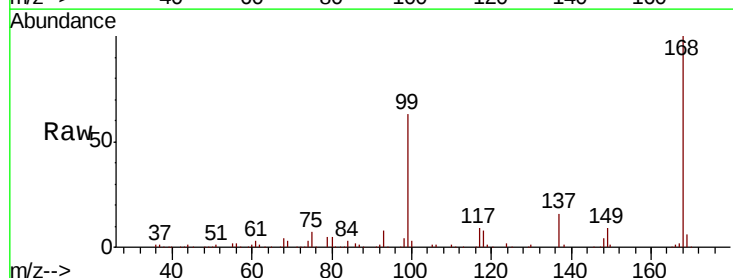
Tgt Ion: 75 Resp: 14673

Ion Ratio Lower Upper

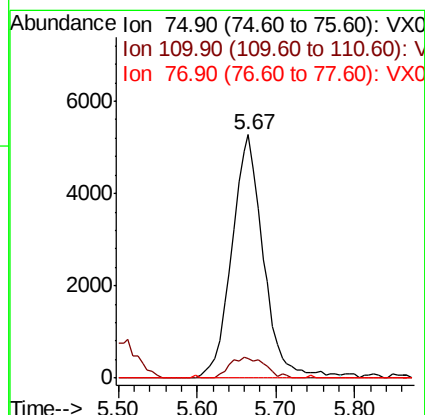
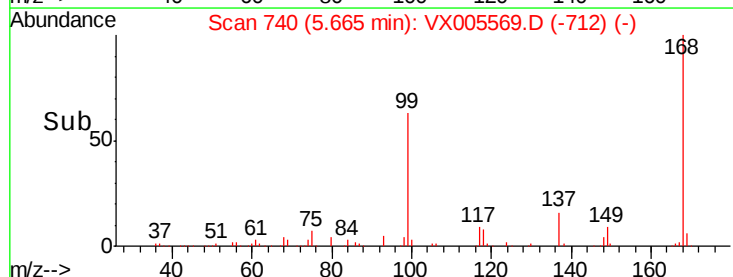
75 100

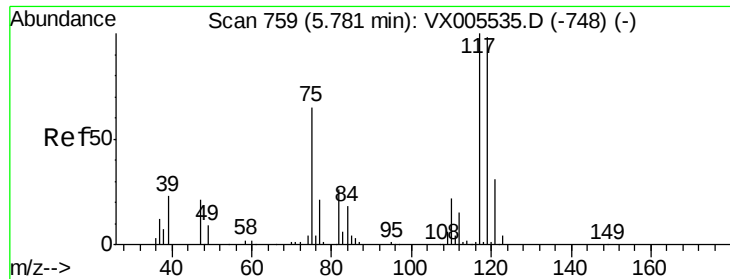
110 9.6 18.0 54.0#

77 0.0 24.6 36.8#



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

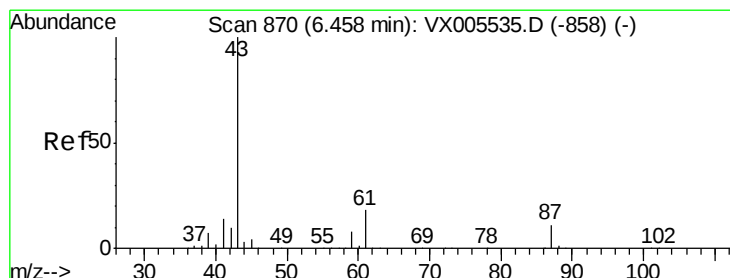
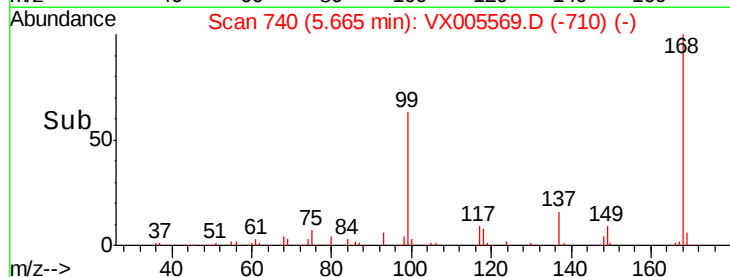
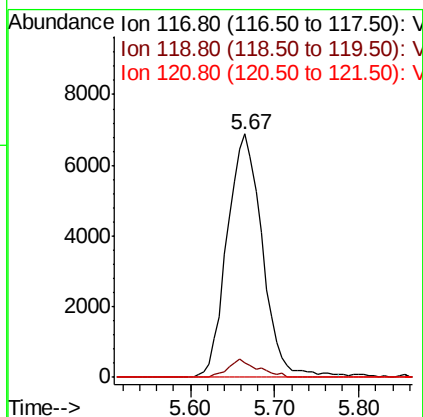
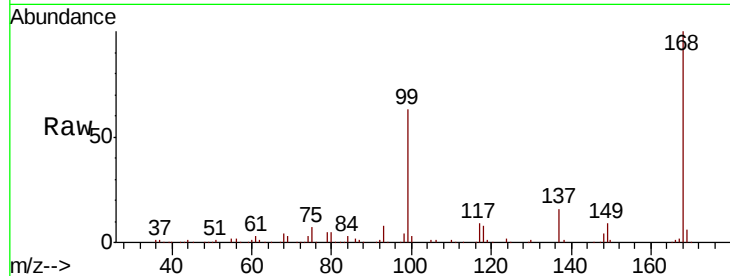




#38  
Carbon Tetrachloride  
Concen: 5.992 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. -0.12 min  
Lab File: VX005569.D  
Acq: 25 Oct 2018 04:31

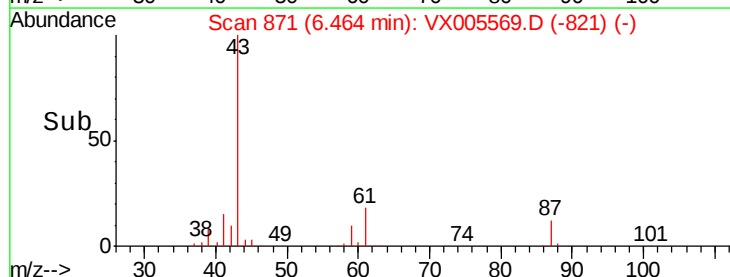
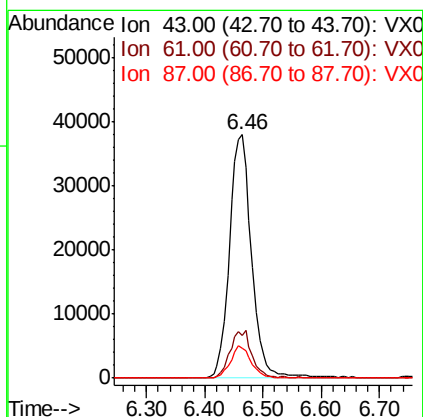
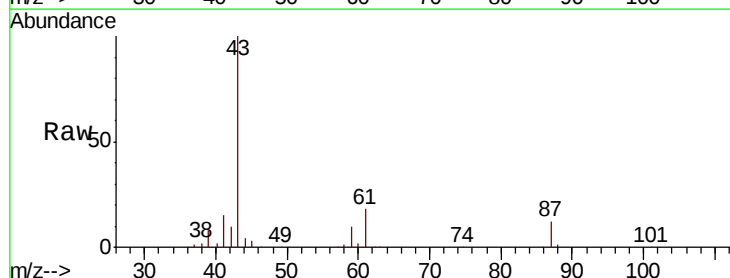
Instrument :  
MSVOA\_X  
ClientSampleId :  
NB-MTB

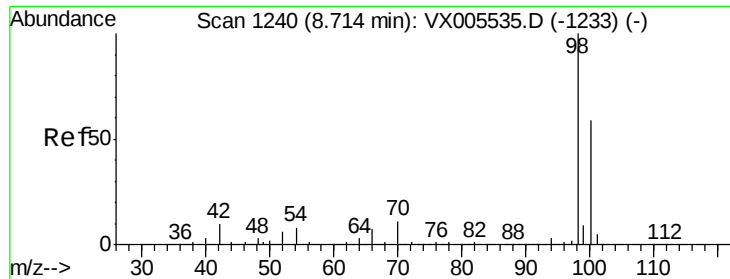
Tot Ion:117 Resp: 19519  
Ion Ratio Lower Upper  
117 100  
119 6.1 78.8 118.2#  
121 0.0 24.9 37.3#



#43  
Isopropyl Acetate  
Concen: 16.992 ug/l  
RT: 6.46 min Scan# 871  
Delta R.T. 0.01 min  
Lab File: VX005569.D  
Acq: 25 Oct 2018 04:31

Tgt Ion: 43 Resp: 100498  
Ion Ratio Lower Upper  
43 100  
61 19.1 17.0 25.4  
87 12.2 11.4 17.2





#50

Toluene-d8

Concen: 49.408 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

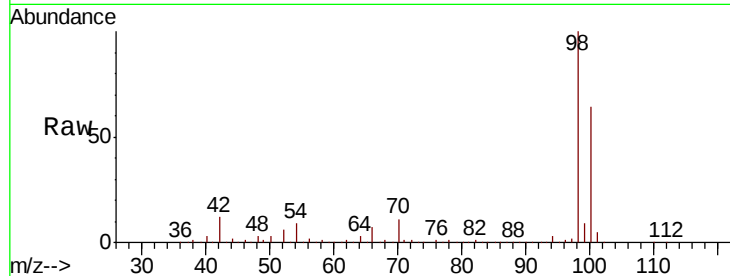
NB-MTB

Tot Ion: 98 Resp: 383123

Ion Ratio Lower Upper

98 100

100 62.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

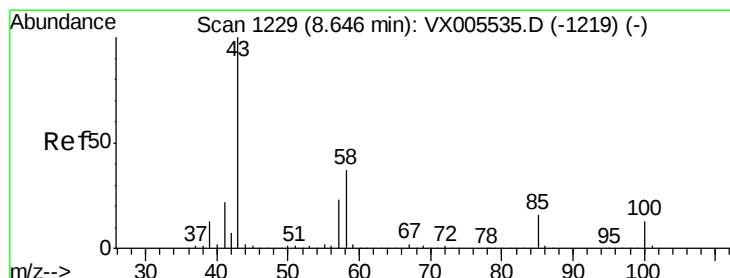
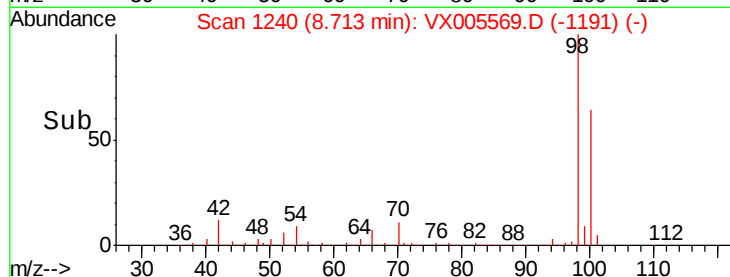
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005569.D

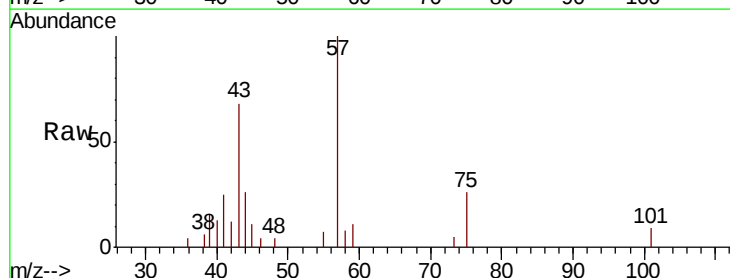
Acq: 25 Oct 2018 04:31

Tgt Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

58 6.5 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

600

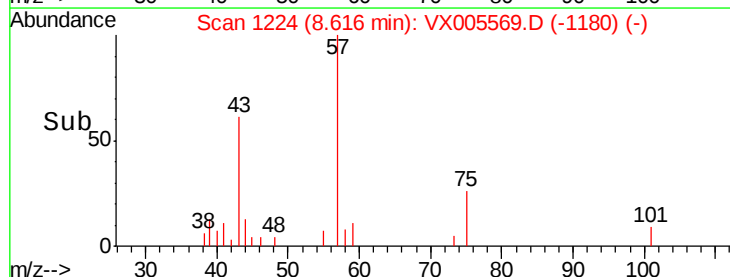
400

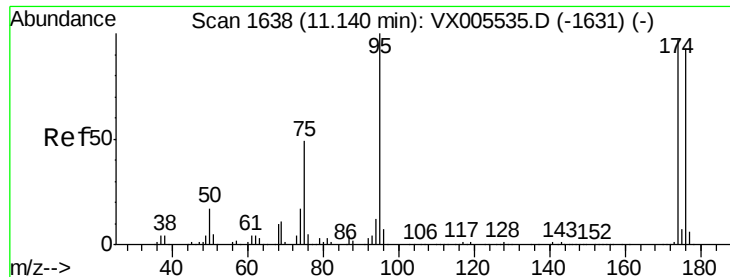
200

0

8.55 8.60 8.65

Time-->





#62

4-Bromofluorobenzene

Concen: 42.553 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

NB-MTB

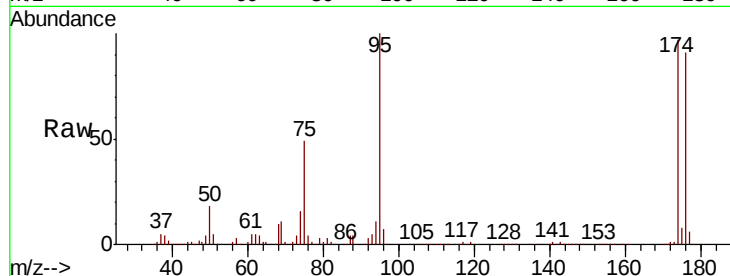
Tot Ion: 95 Resp: 124612

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

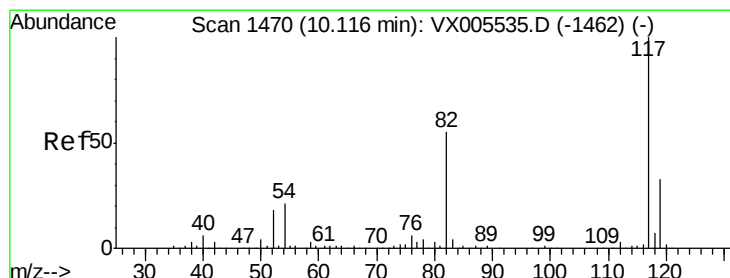
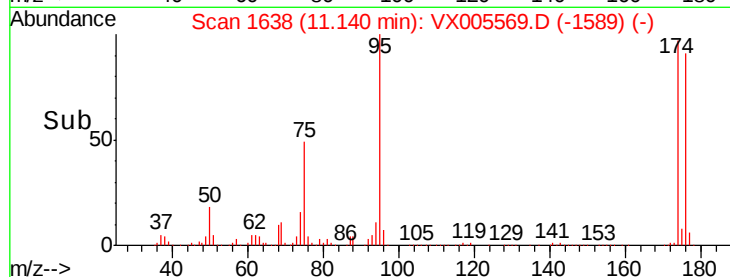
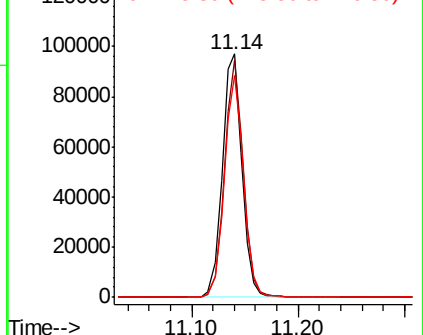
176 89.4 0.0 178.6



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: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

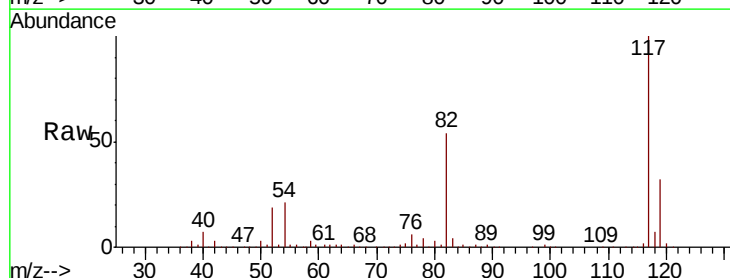
Tgt Ion: 117 Resp: 289227

Ion Ratio Lower Upper

117 100

82 54.5 47.8 71.6

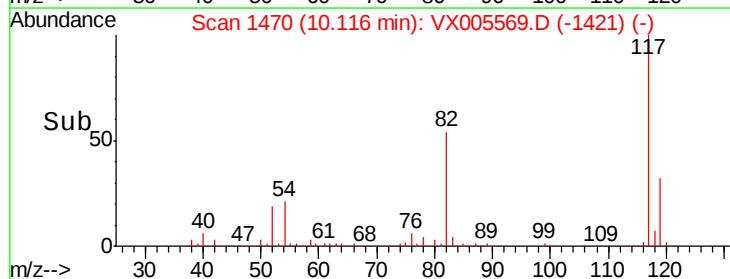
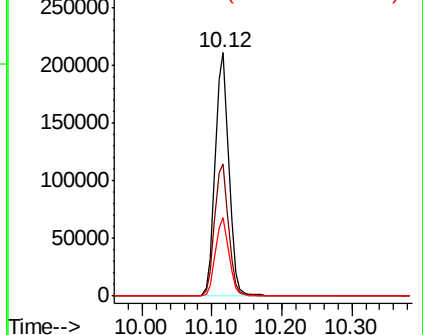
119 32.4 29.3 43.9

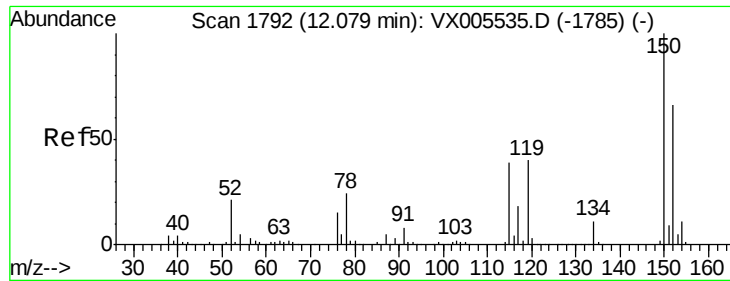


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

NB-MTB

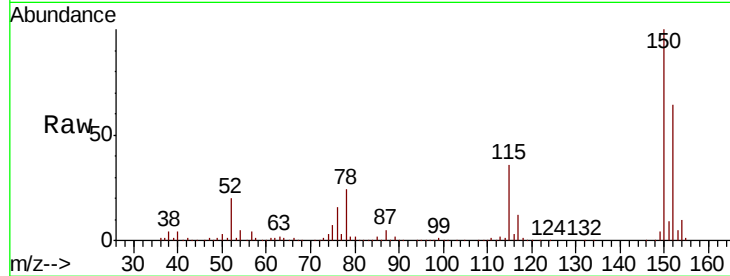
Tot Ion:152 Resp: 136716

Ion Ratio Lower Upper

152 100

115 55.6 39.0 117.0

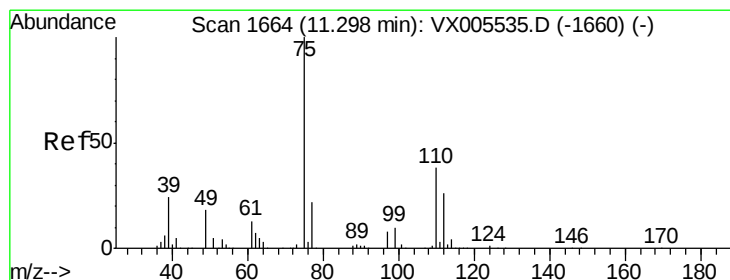
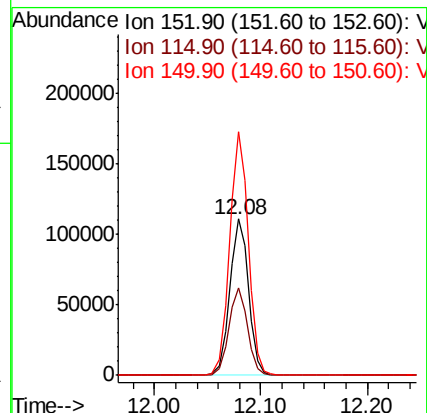
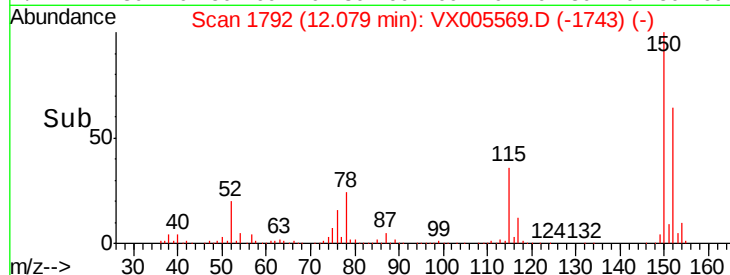
150 154.6 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.867 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005569.D

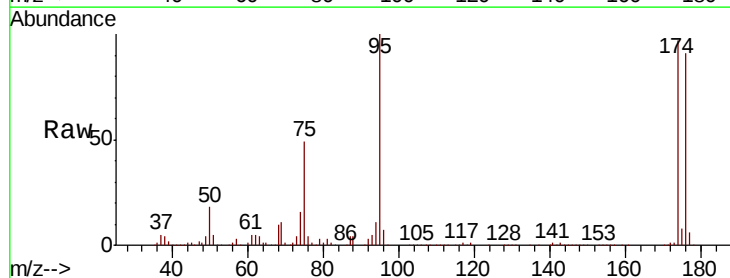
Acq: 25 Oct 2018 04:31

Tgt Ion: 75 Resp: 63678

Ion Ratio Lower Upper

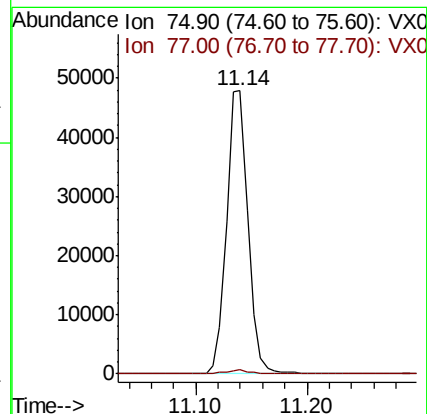
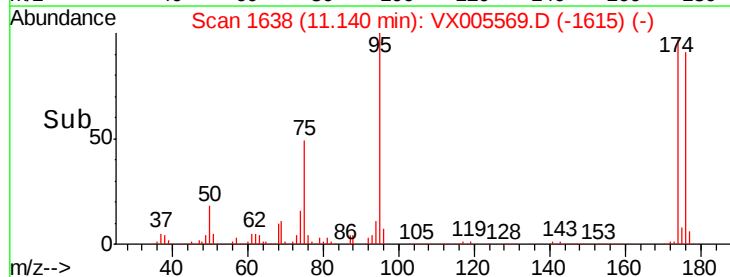
75 100

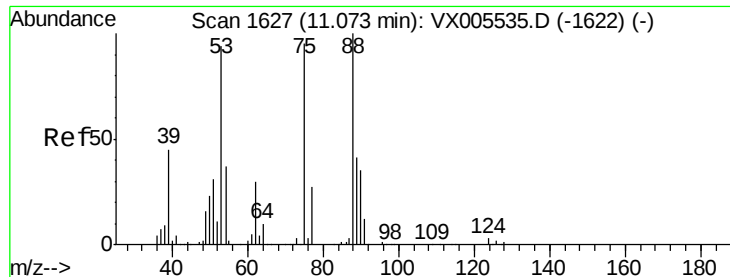
77 1.3 20.2 60.6#



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: 71.830 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

Instrument :

MSVOA\_X

ClientSampleId :

NB-MTB

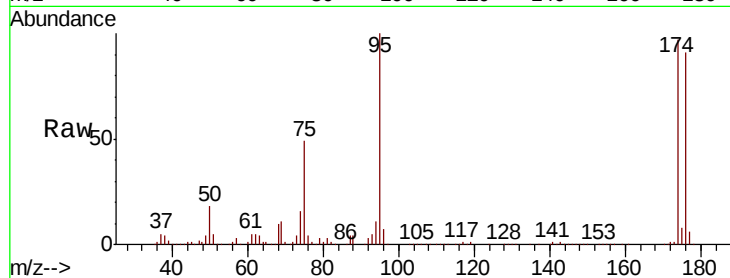
Tot Ion: 75 Resp: 63678

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

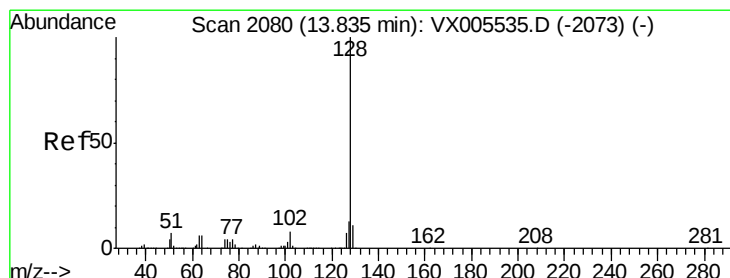
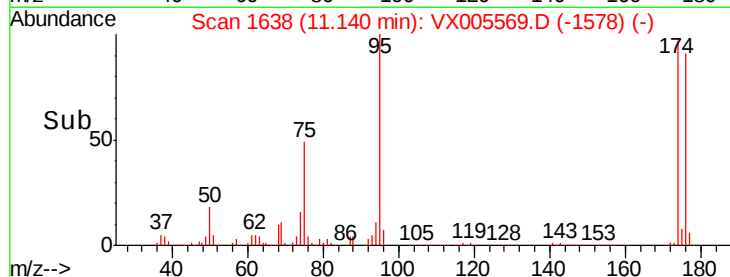
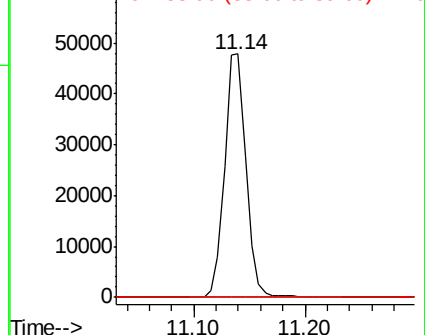
89 0.0 37.2 55.8#



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: 0.812 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005569.D

Acq: 25 Oct 2018 04:31

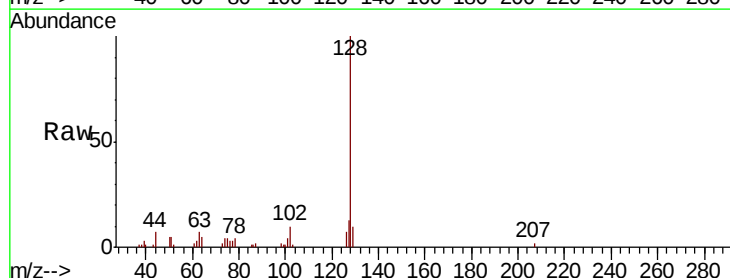
Tgt Ion: 128 Resp: 7583

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.2

129 11.7 8.6 12.8



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

