

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX042419\  
 Data File : VX009135.D  
 Acq On : 24 Apr 2019 11:05  
 Operator : JC/SP  
 Sample : VX0424MBL01  
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0424MBL01

Quant Time: Apr 25 05:18:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 213340   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 349098   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 288737   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 118175   | 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   | 143975   | 47.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 95.78% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 105638   | 47.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 94.30% |          |
| 50) Toluene-d8              | 8.71  | 98   | 421551   | 47.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 94.36% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 133216   | 42.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 84.48% |          |

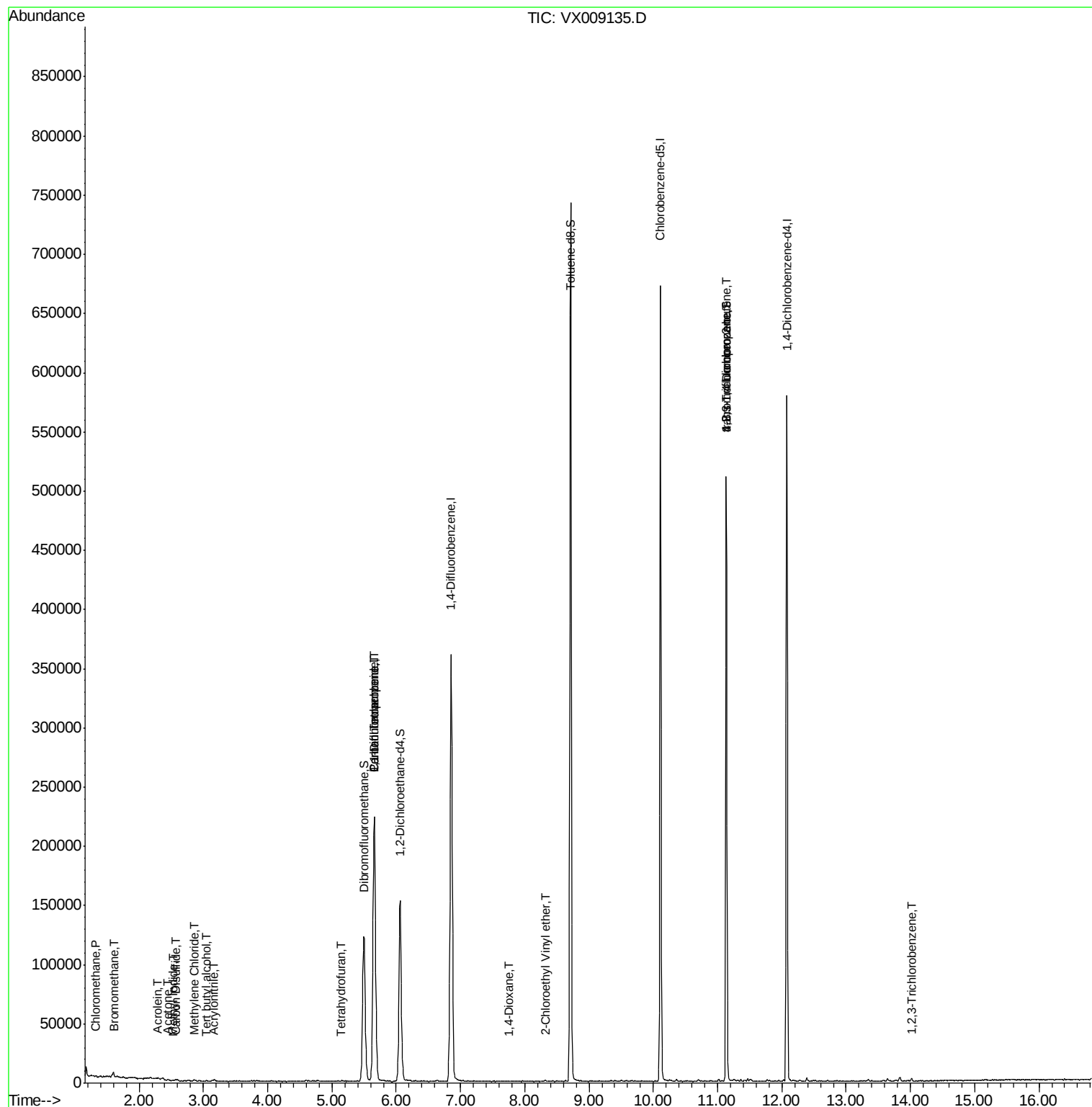
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 623      | 0.207     | ug/l # | 76     |
| 5) Bromomethane                | 1.62  | 94   | 43       | 3.870     | ug/l # | 3      |
| 10) Methyl Iodide              | 2.53  | 142  | 457      | 4.588     | ug/l # | 70     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 349      | 0.523     | ug/l # | 28     |
| 13) Acrolein                   | 2.29  | 56   | 357      | 0.619     | ug/l # | 52     |
| 15) Acrylonitrile              | 3.15  | 53   | 930      | 0.549     | ug/l   | 93     |
| 16) Acetone                    | 2.45  | 43   | 981      | 0.629     | ug/l   | 91     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1797     | 1.513     | ug/l # | 61     |
| 20) Methylene Chloride         | 2.86  | 84   | 624      | 0.234     | ug/l   | 86     |
| 28) Bromochloromethane         | 5.01  | 49   | 175      | Below Cal | #      | 21     |
| 29) Tetrahydrofuran            | 5.15  | 42   | 1009     | 0.605     | ug/l # | 89     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 16809    | 4.656     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20352    | 6.649     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 131      | 1.892     | ug/l # | 46     |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 554      | 0.227     | ug/l # | 75     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 68574    | 23.764    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 68574    | 61.009    | ug/l # | 11     |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 564      | 0.203     | ug/l   | 87     |

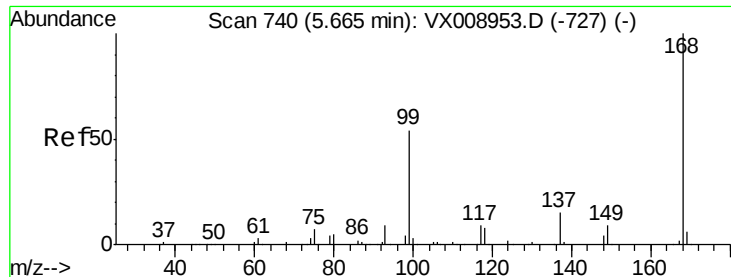
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 17 06:47:58 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

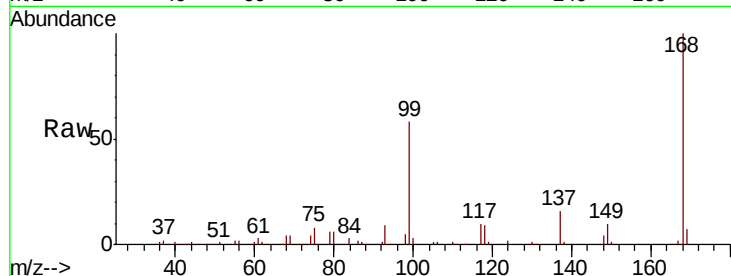
VX0424MBL01

Tgt Ion:168 Resp: 213340

Ion Ratio Lower Upper

168 100

99 57.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

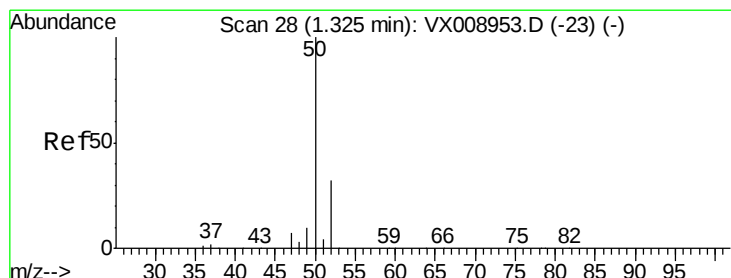
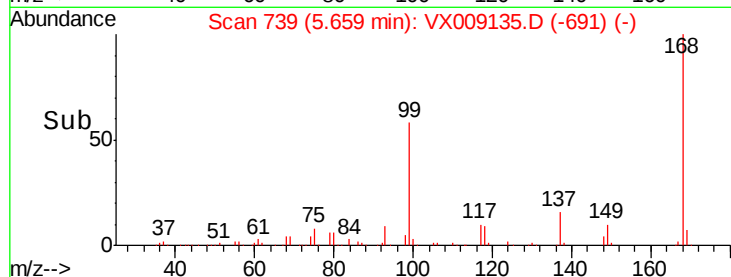
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009135.D

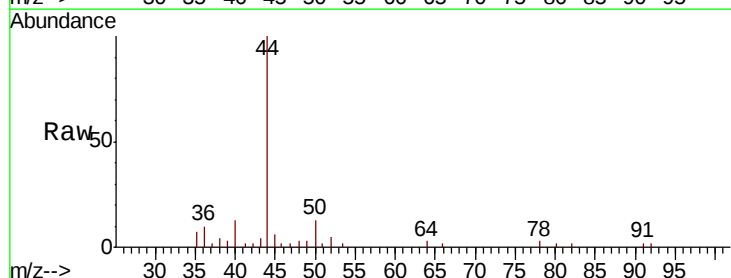
Acq: 24 Apr 2019 11:05

Tgt Ion: 50 Resp: 623

Ion Ratio Lower Upper

50 100

52 18.8 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

500

400

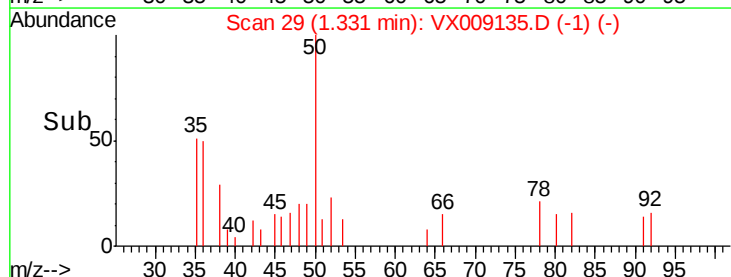
300

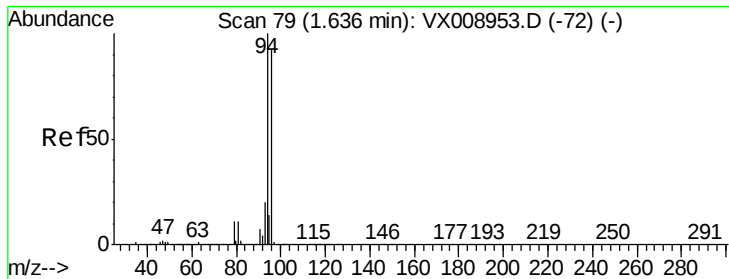
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 3.870 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.02 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

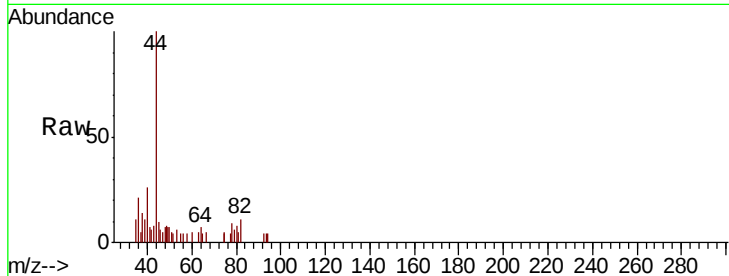
VX0424MBL01

Tgt Ion: 94 Resp: 43

Ion Ratio Lower Upper

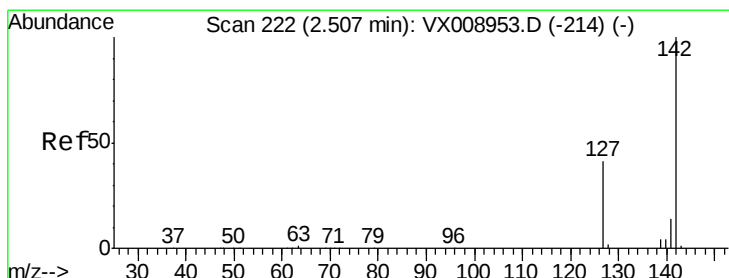
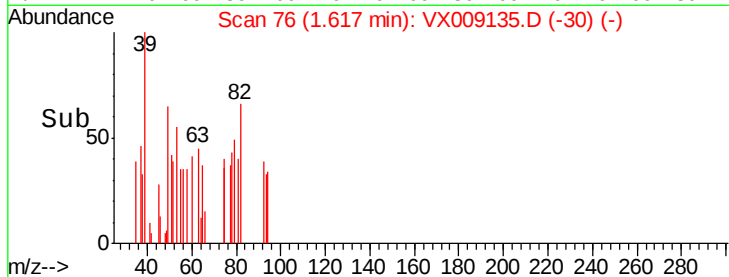
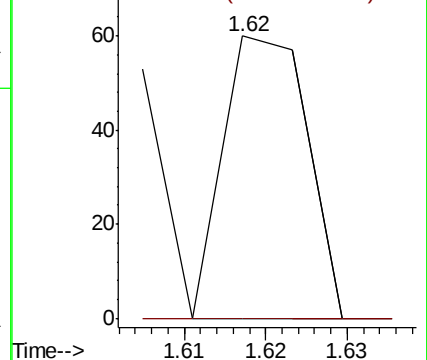
94 100

96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.588 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

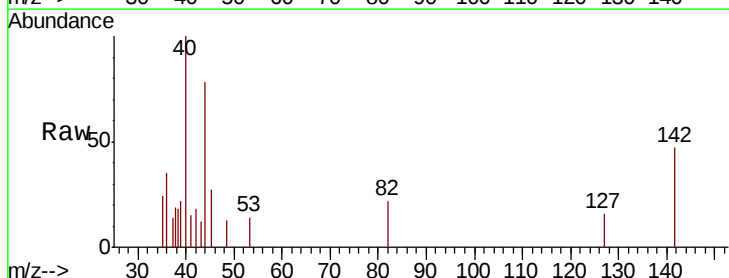
Tgt Ion: 142 Resp: 457

Ion Ratio Lower Upper

142 100

127 23.2 32.8 49.2#

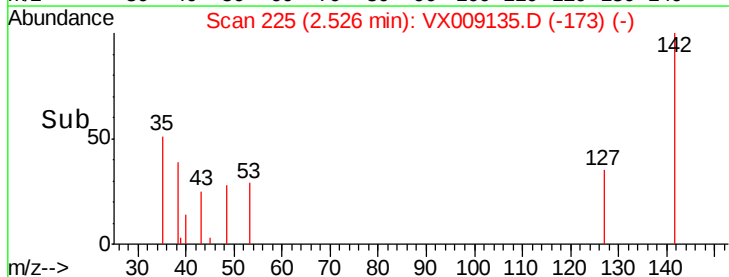
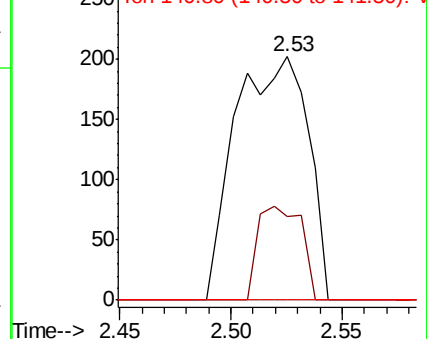
141 0.0 11.4 17.2#

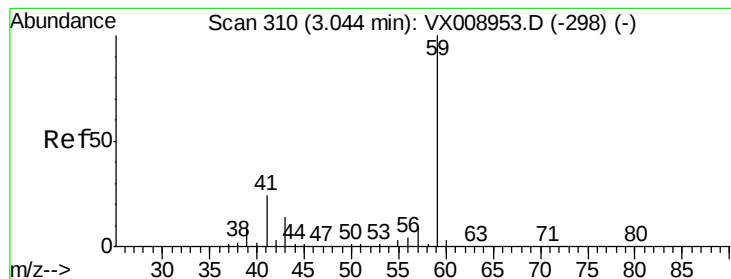


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.523 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.00 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

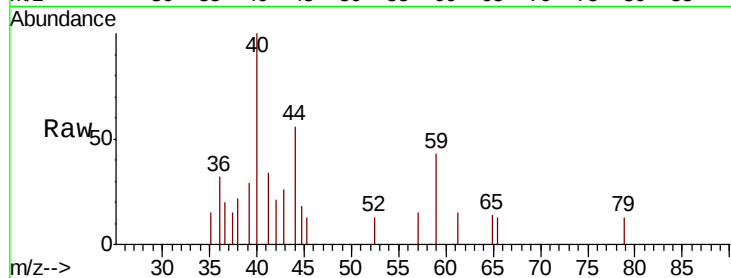
VX0424MBL01

Tgt Ion: 59 Resp: 349

Ion Ratio Lower Upper

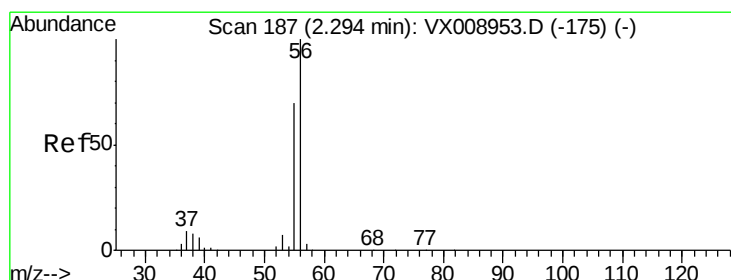
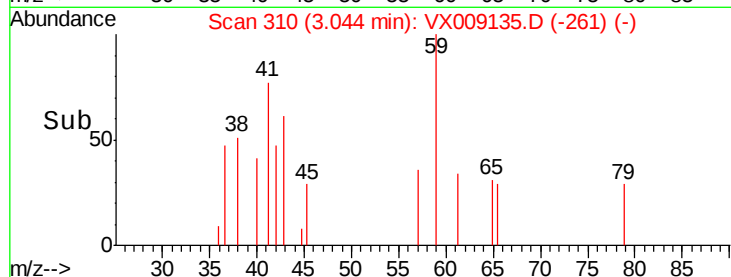
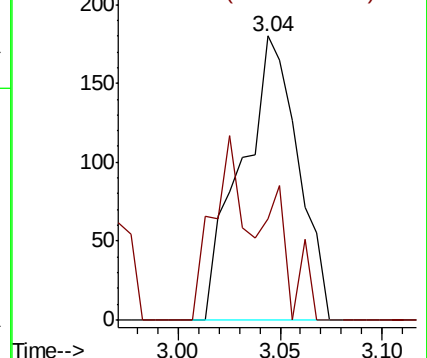
59 100

57 37.5 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.619 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009135.D

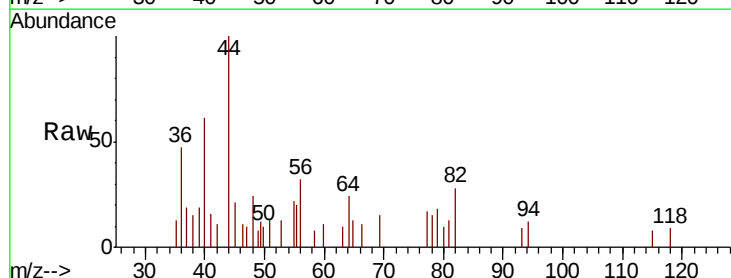
Acq: 24 Apr 2019 11:05

Tgt Ion: 56 Resp: 357

Ion Ratio Lower Upper

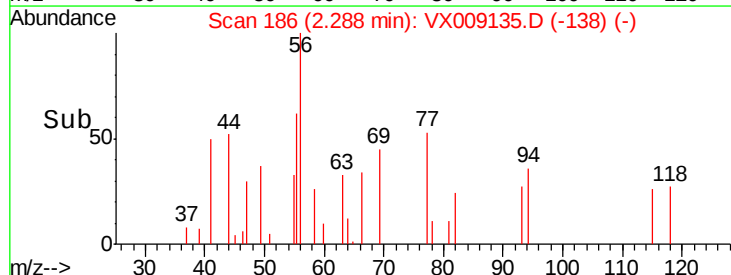
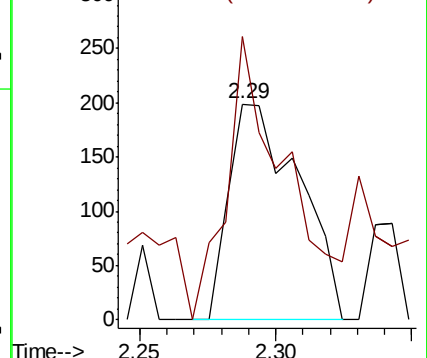
56 100

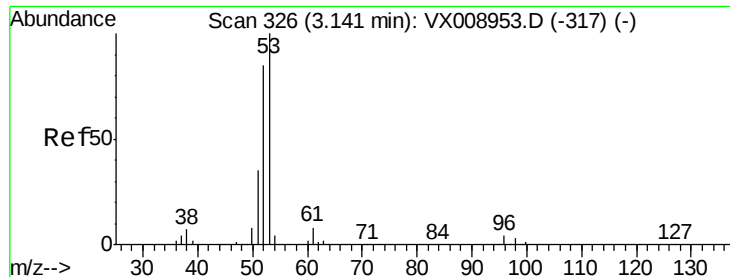
55 110.4 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.549 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

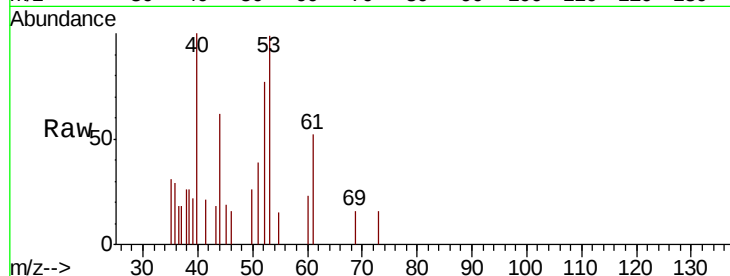
Tgt Ion: 53 Resp: 930

Ion Ratio Lower Upper

53 100

52 75.8 66.6 100.0

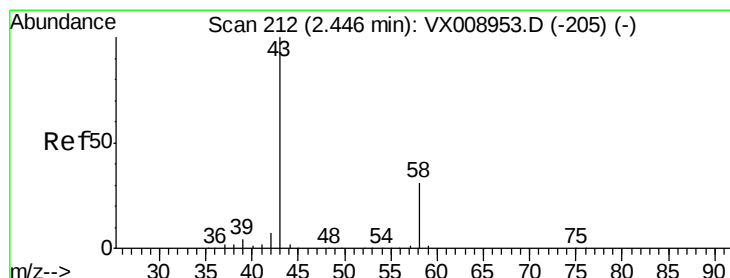
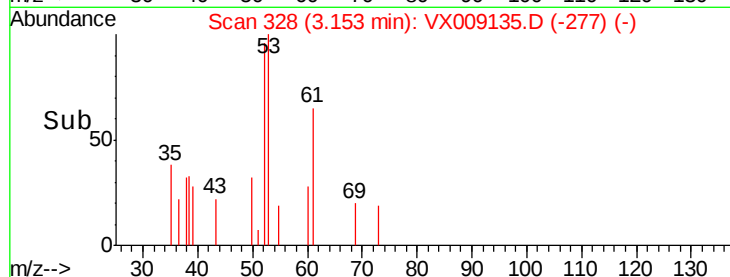
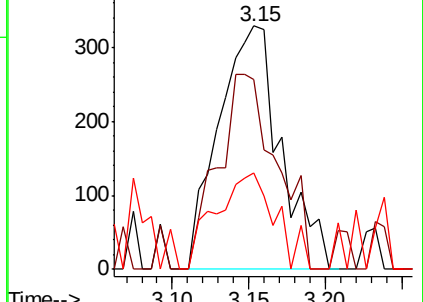
51 38.2 28.3 42.5



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.629 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009135.D

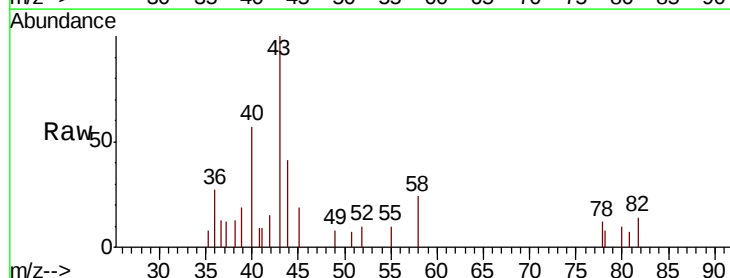
Acq: 24 Apr 2019 11:05

Tgt Ion: 43 Resp: 981

Ion Ratio Lower Upper

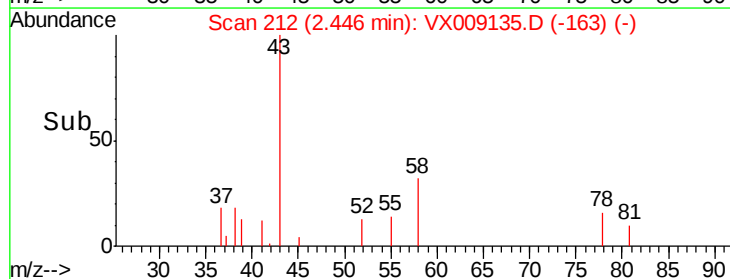
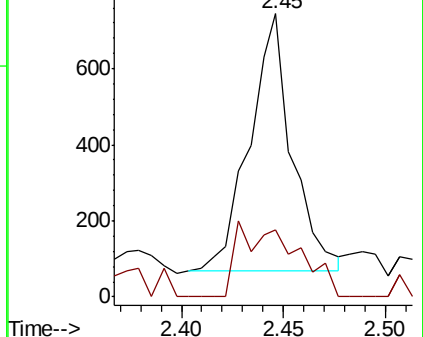
43 100

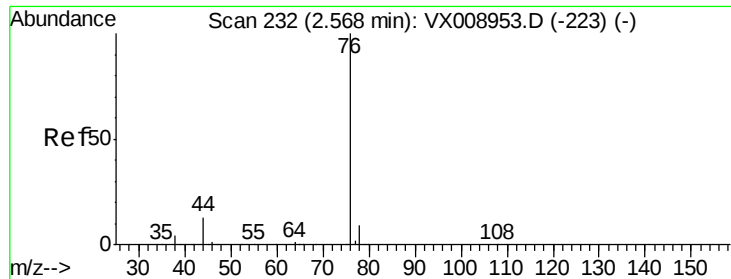
58 26.1 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

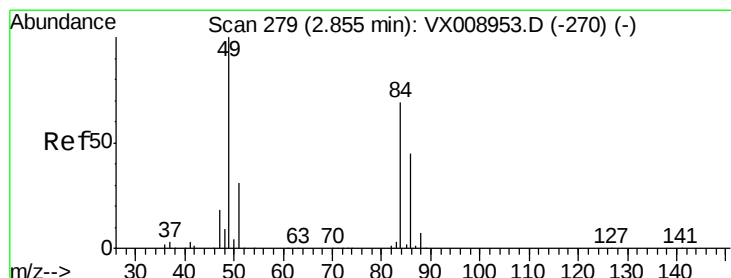
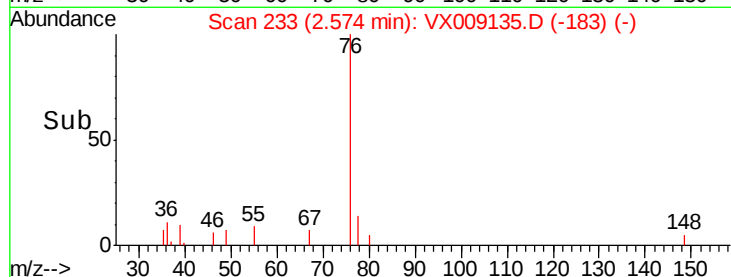
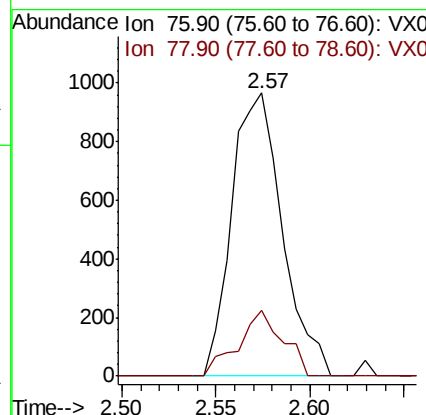
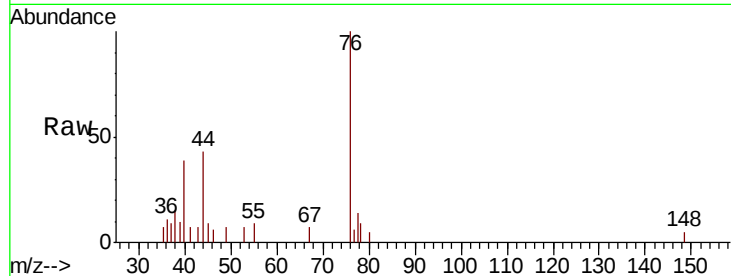




#17  
Carbon Disulfide  
Concen: 1.513 ug/l  
RT: 2.57 min Scan# 233  
Delta R.T. 0.01 min  
Lab File: VX009135.D  
Acq: 24 Apr 2019 11:05

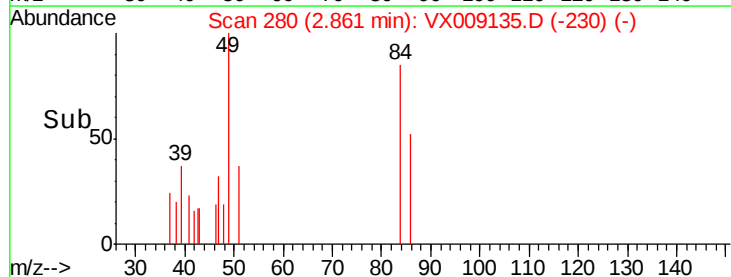
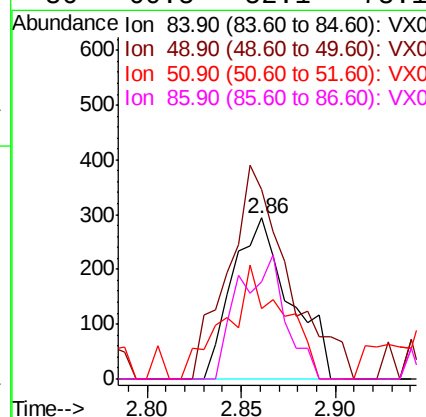
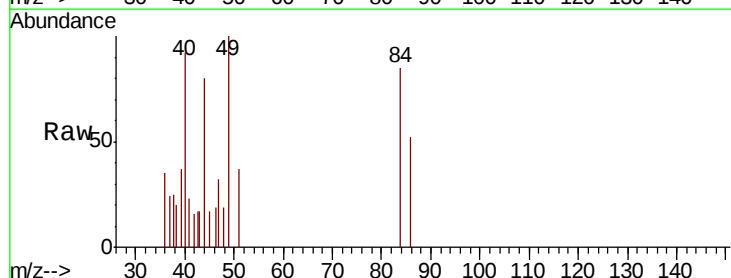
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0424MBL01

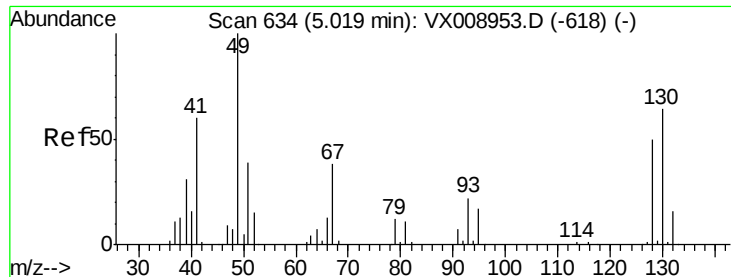
Tgt Ion: 76 Resp: 1797  
Ion Ratio Lower Upper  
76 100  
78 23.2 7.2 10.8#



#20  
Methylene Chloride  
Concen: 0.234 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX009135.D  
Acq: 24 Apr 2019 11:05

Tgt Ion: 84 Resp: 624  
Ion Ratio Lower Upper  
84 100  
49 117.3 115.4 173.0  
51 43.9 35.8 53.6  
86 60.5 52.1 78.1





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

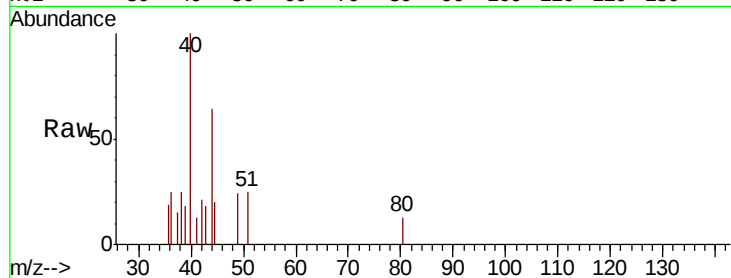
Tgt Ion: 49 Resp: 175

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

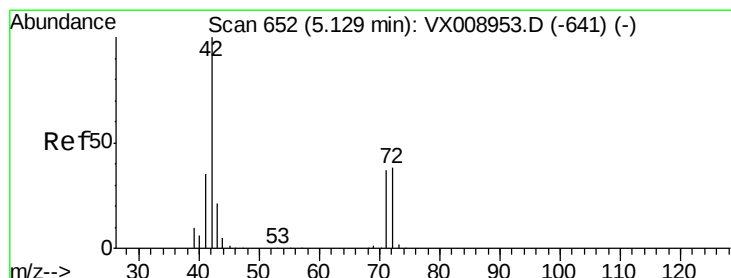
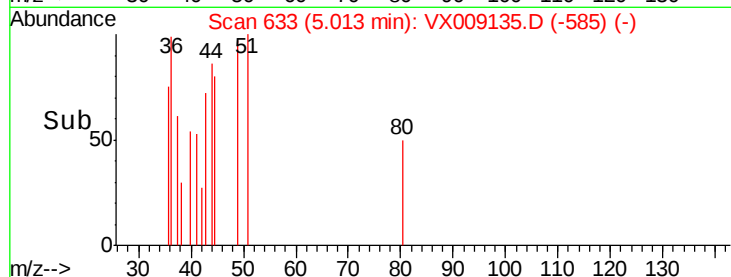
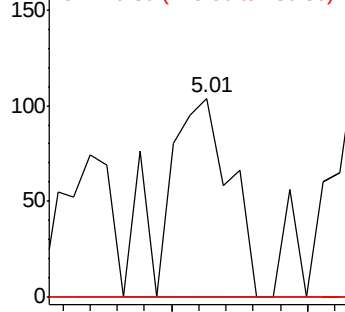
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.605 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

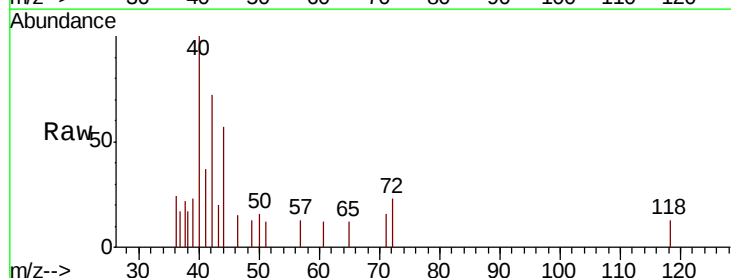
Tgt Ion: 42 Resp: 1009

Ion Ratio Lower Upper

42 100

72 34.1 30.6 45.8

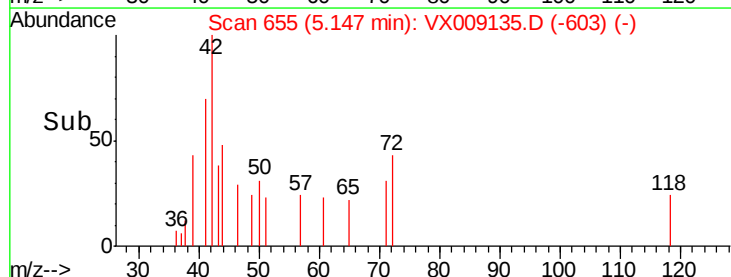
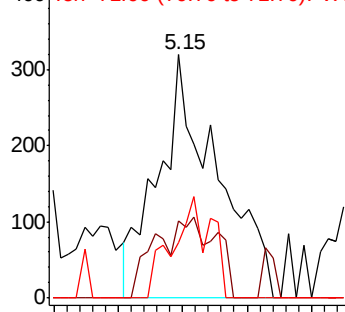
71 27.3 28.8 43.2#

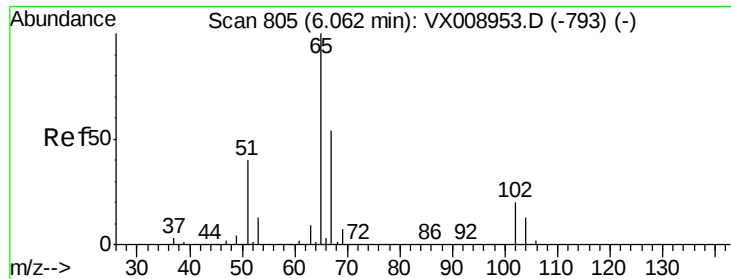


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

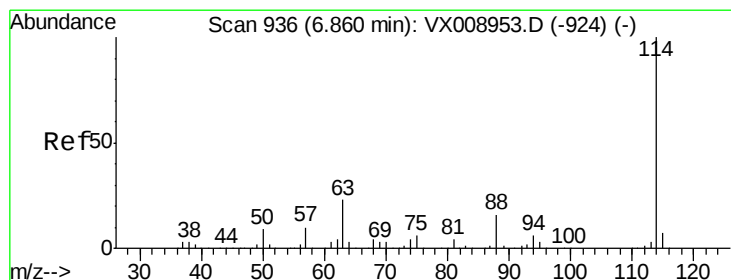
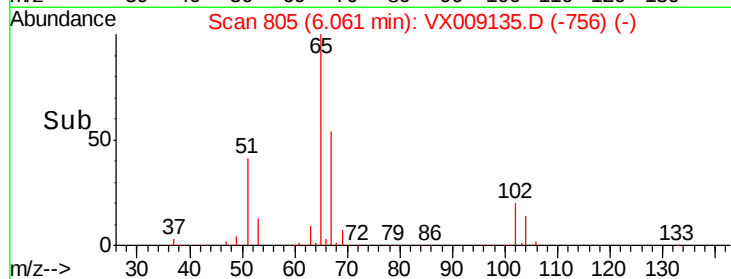
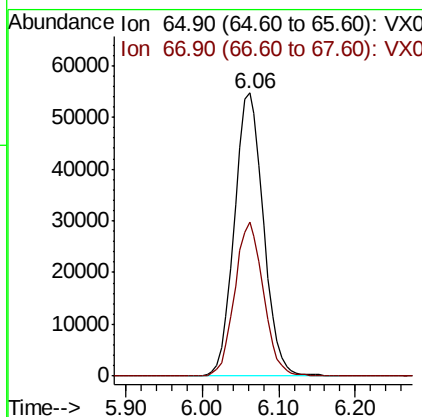
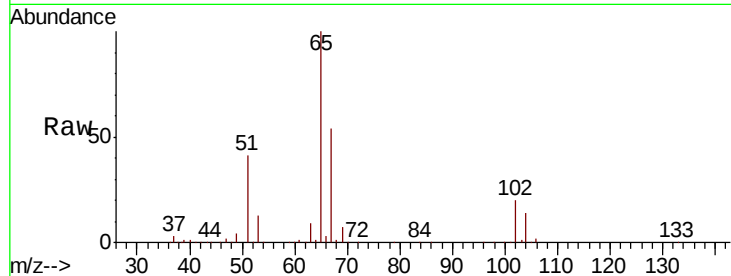




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.887 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX009135.D  
 Acq: 24 Apr 2019 11:05

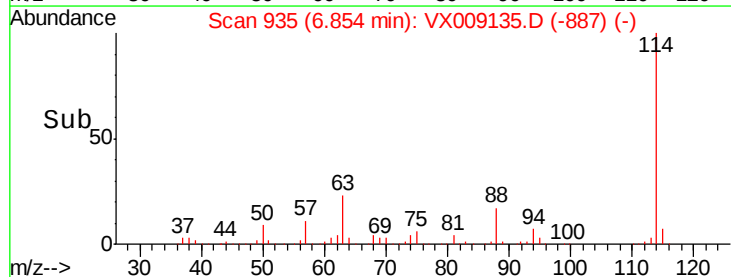
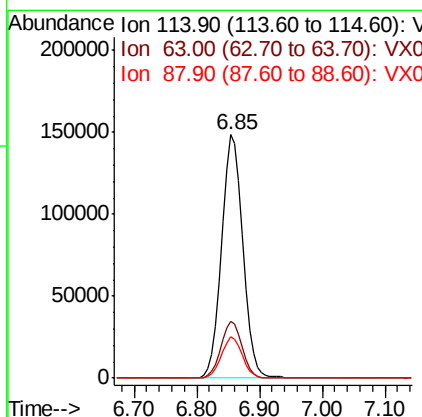
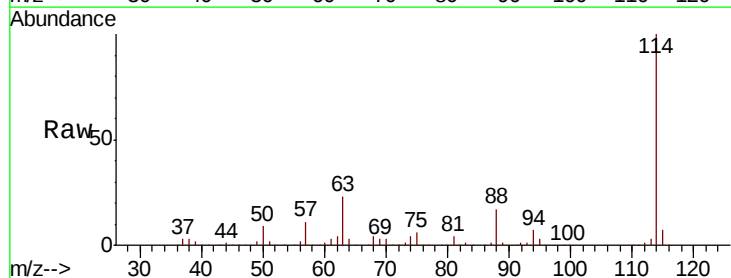
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0424MBL01

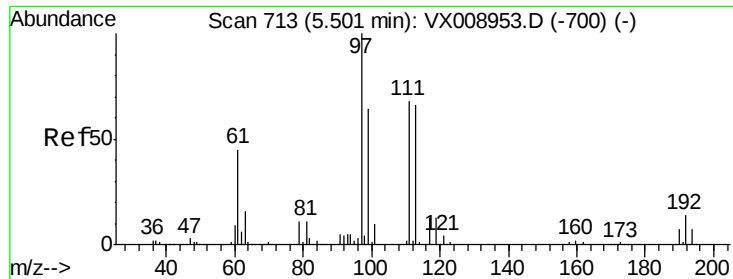
Tgt Ion: 65 Resp: 143975  
 Ion Ratio Lower Upper  
 65 100  
 67 53.7 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.01 min  
 Lab File: VX009135.D  
 Acq: 24 Apr 2019 11:05

Tgt Ion: 114 Resp: 349098  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 46.0  
 88 17.2 0.0 32.6

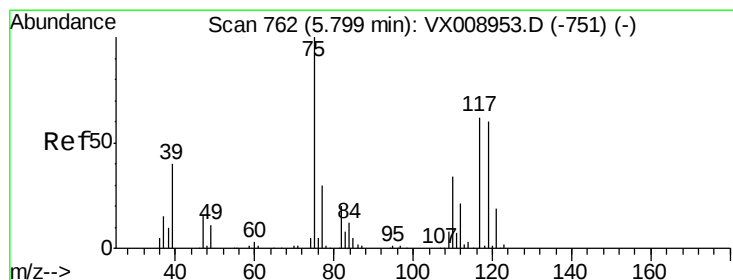
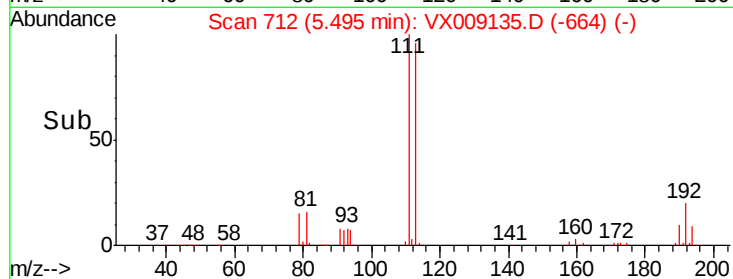
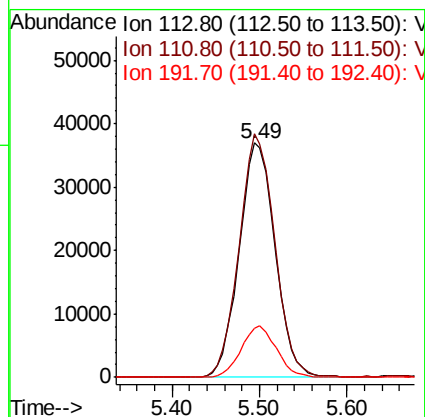
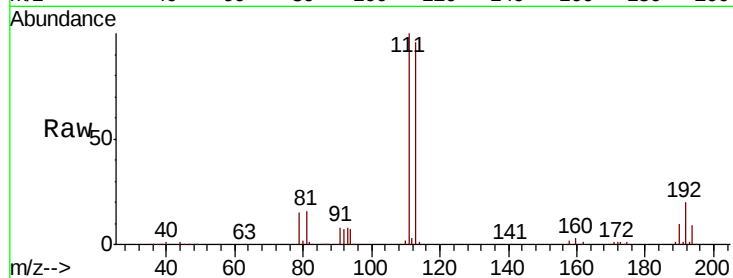




#35  
 Dibromofluoromethane  
 Concen: 47.151 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: VX009135.D  
 Acq: 24 Apr 2019 11:05

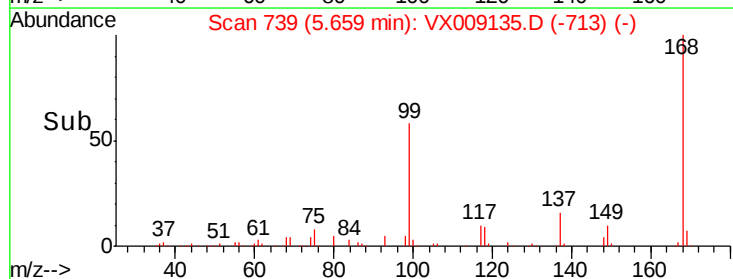
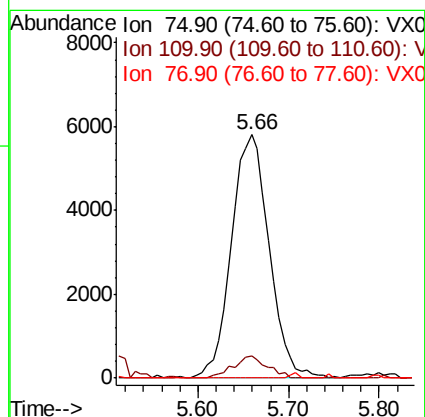
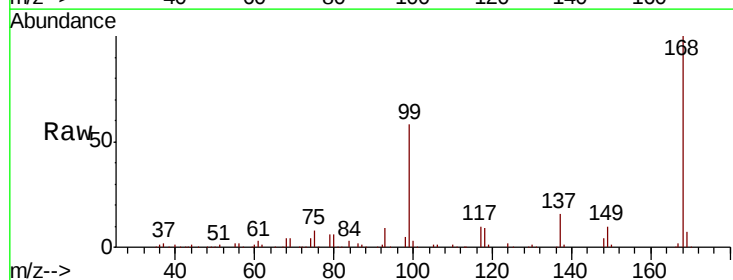
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 VX0424MBL01

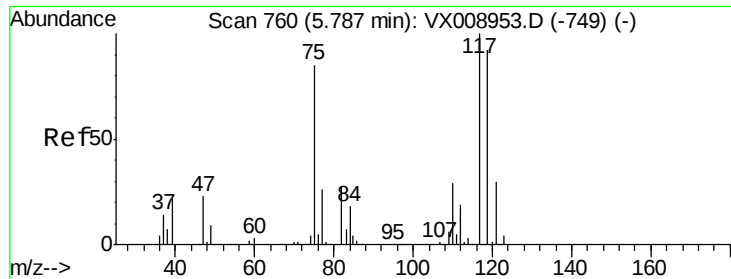
Tgt Ion:113 Resp: 105638  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 82.9 124.3  
 192 21.4 17.4 26.0



#36  
 1,1-Dichloropropene  
 Concen: 4.656 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009135.D  
 Acq: 24 Apr 2019 11:05

Tgt Ion: 75 Resp: 16809  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 16.9 50.7#  
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.649 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

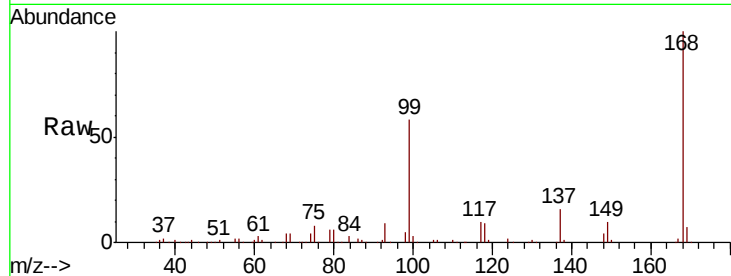
Tgt Ion: 117 Resp: 20352

Ion Ratio Lower Upper

117 100

119 6.2 73.8 110.8#

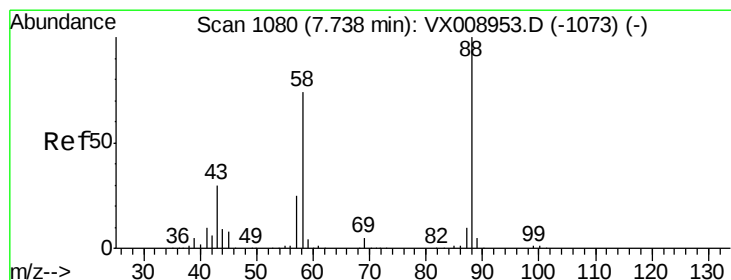
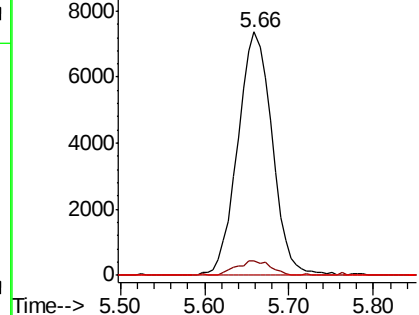
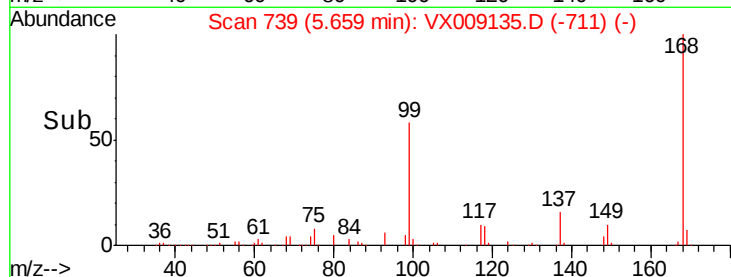
121 0.0 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 1.892 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

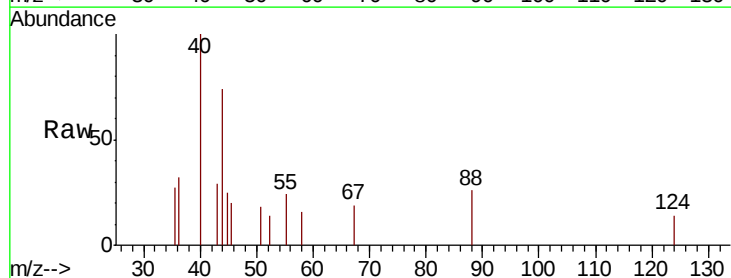
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

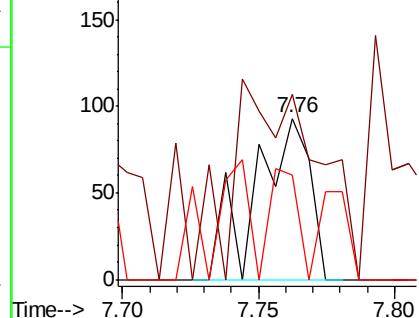
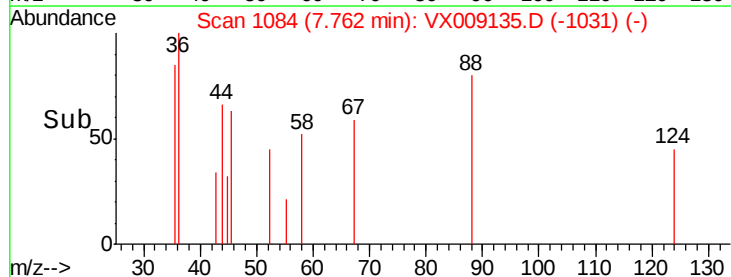
58 34.4 62.6 93.8#

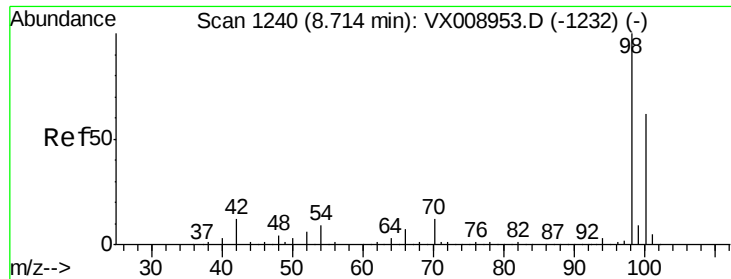


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

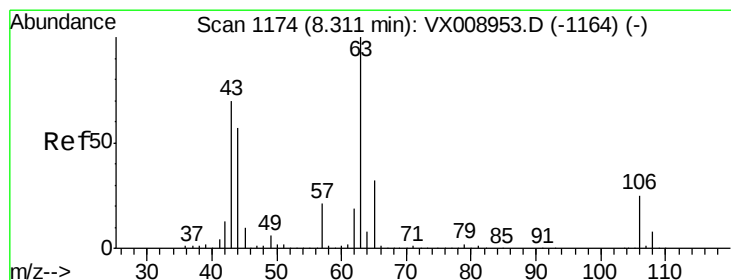
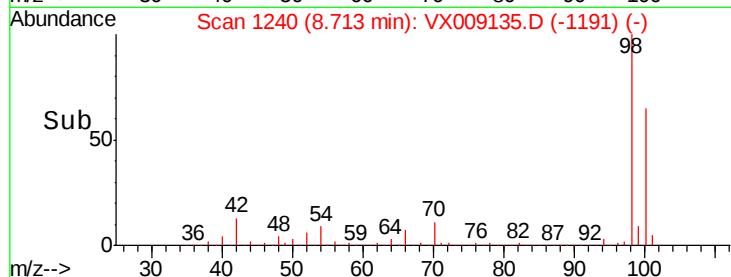
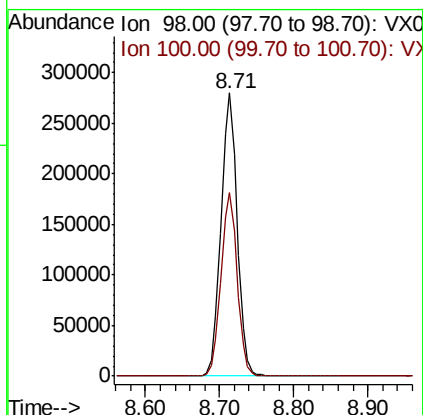
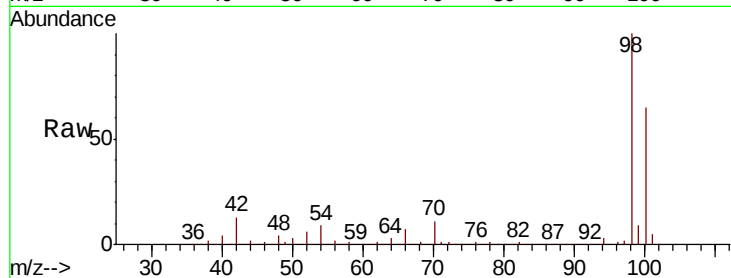




#50  
Toluene-d8  
Concen: 47.180 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX009135.D  
Acq: 24 Apr 2019 11:05

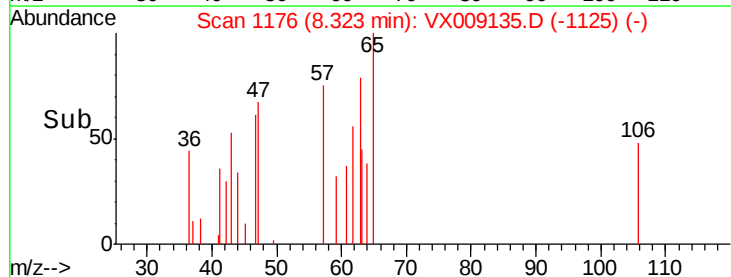
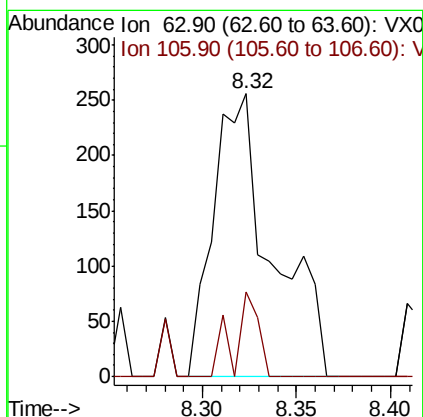
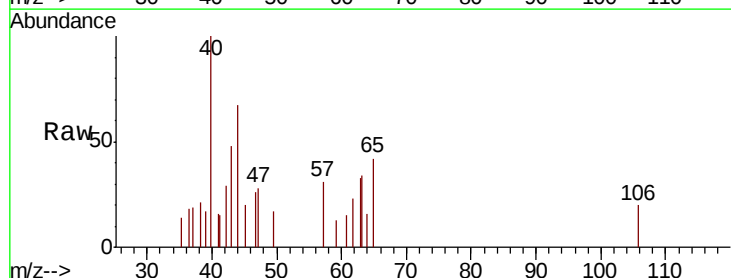
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0424MBL01

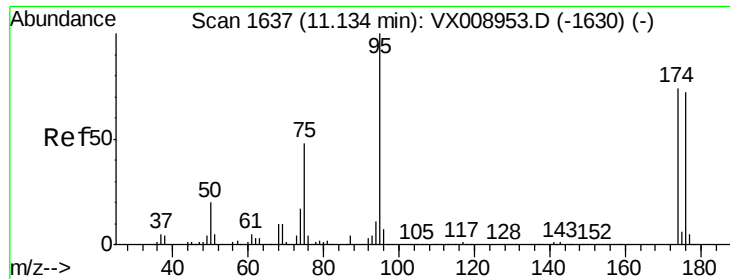
Tgt Ion: 98 Resp: 421551  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.4 77.2



#58  
2-Chloroethyl Vinyl ether  
Concen: 0.227 ug/l  
RT: 8.32 min Scan# 1176  
Delta R.T. 0.01 min  
Lab File: VX009135.D  
Acq: 24 Apr 2019 11:05

Tgt Ion: 63 Resp: 554  
Ion Ratio Lower Upper  
63 100  
106 12.3 19.8 29.6#





#62

4-Bromofluorobenzene

Concen: 42.236 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

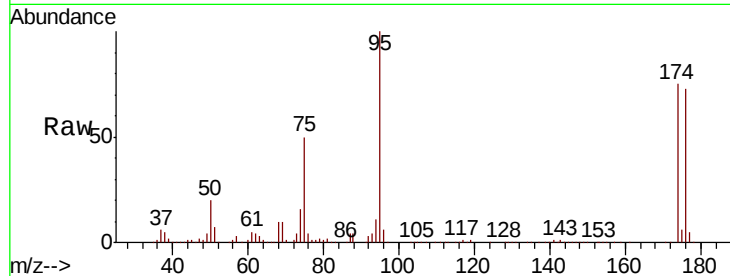
Tgt Ion: 95 Resp: 133216

Ion Ratio Lower Upper

95 100

174 79.8 0.0 159.6

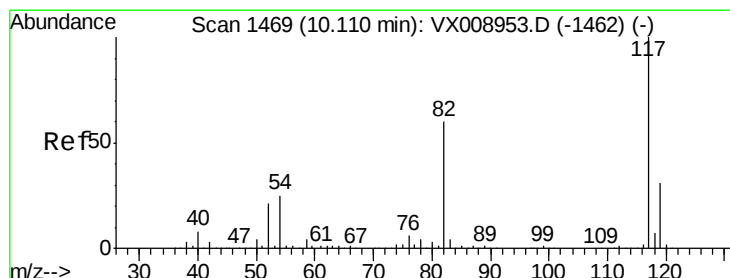
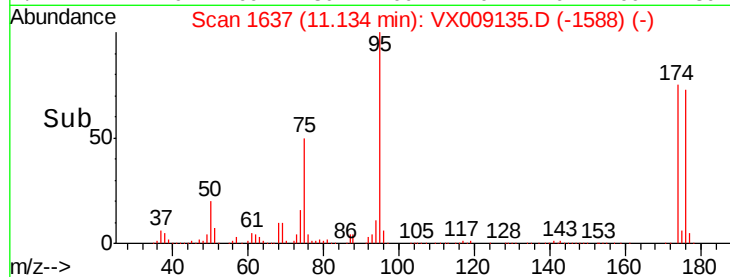
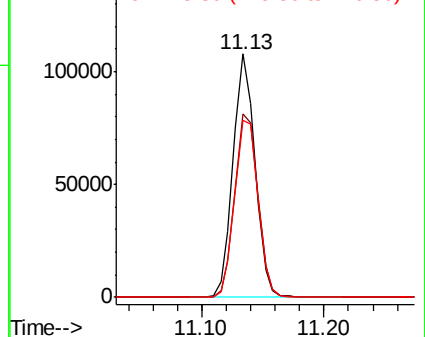
176 77.9 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

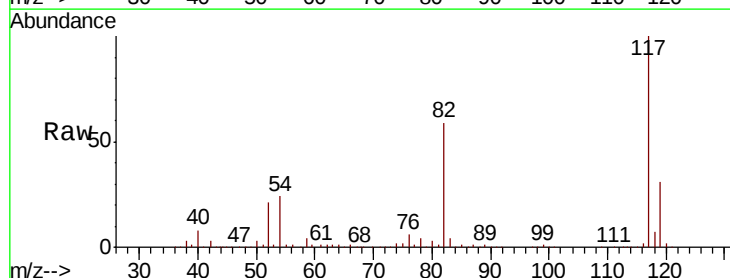
Tgt Ion: 117 Resp: 288737

Ion Ratio Lower Upper

117 100

82 58.7 48.2 72.4

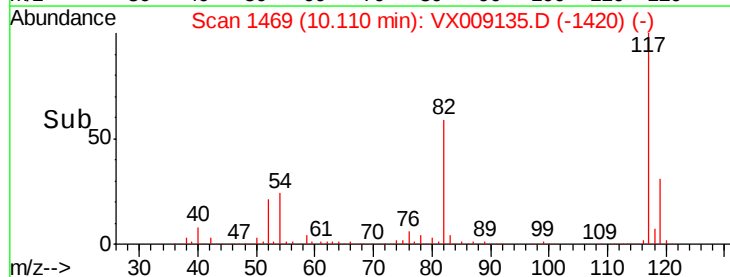
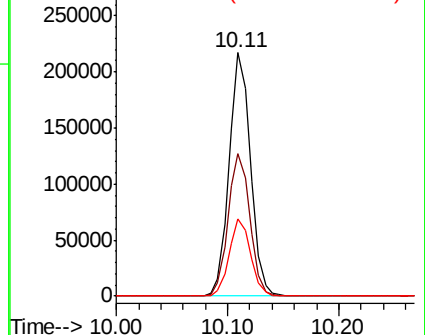
119 31.5 25.0 37.6

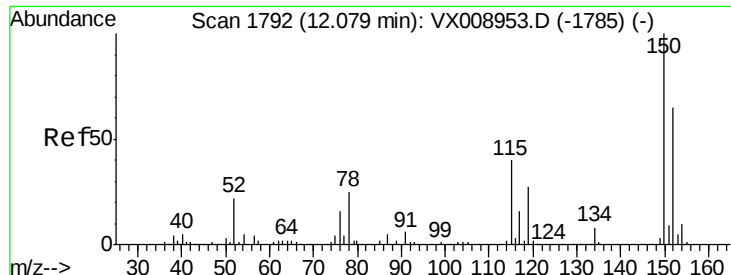


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

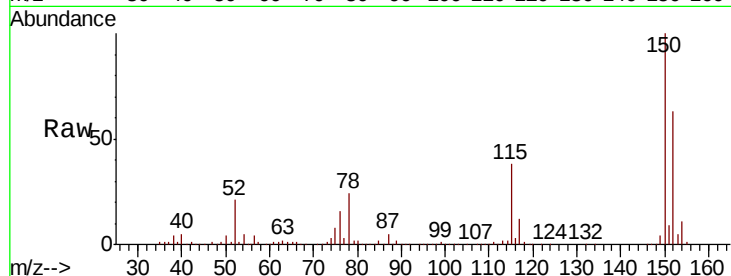
Tgt Ion:152 Resp: 118175

Ion Ratio Lower Upper

152 100

115 60.5 41.4 124.2

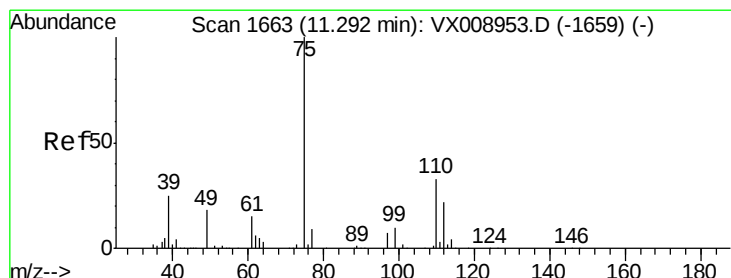
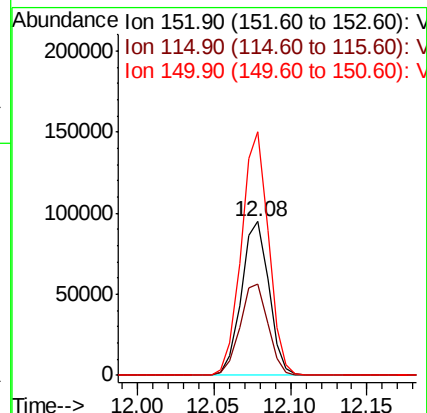
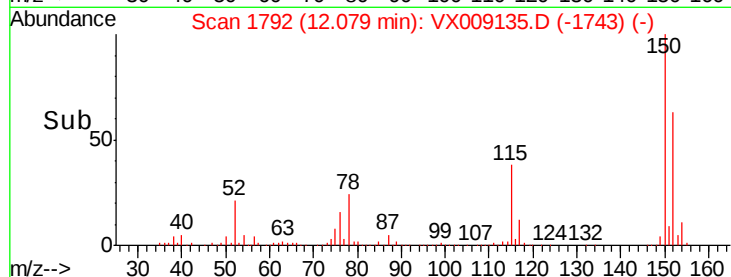
150 156.4 0.0 349.8



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: 23.764 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009135.D

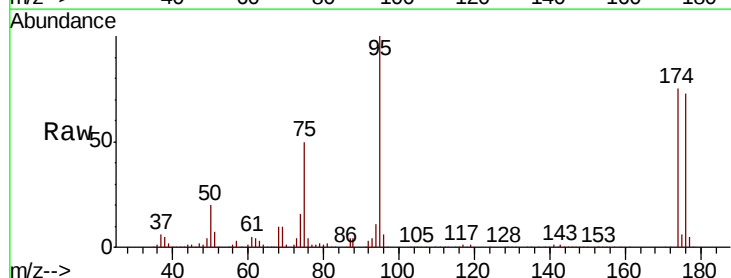
Acq: 24 Apr 2019 11:05

Tgt Ion: 75 Resp: 68574

Ion Ratio Lower Upper

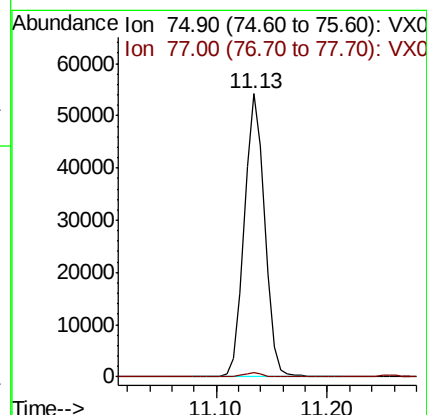
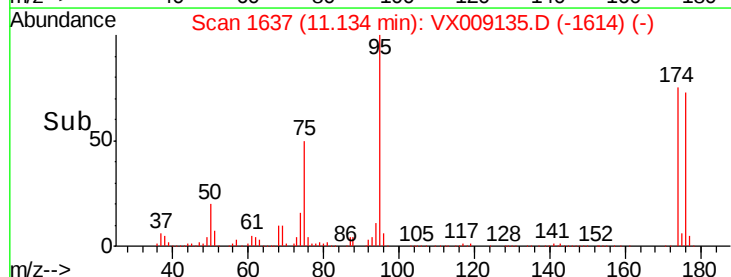
75 100

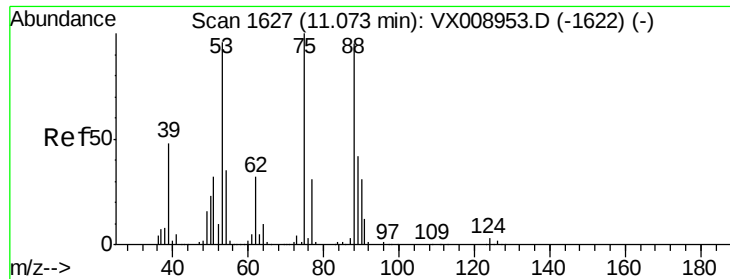
77 1.4 22.7 68.0#



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: 61.009 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

Instrument :

MSVOA\_X

ClientSampleId :

VX0424MBL01

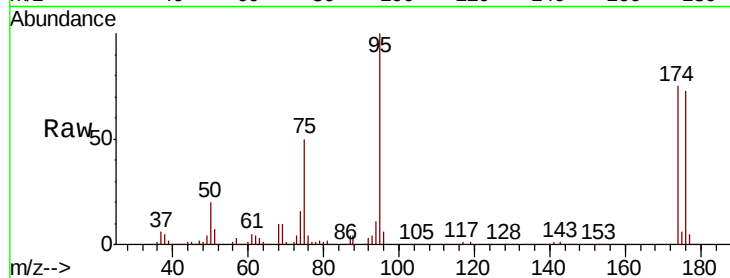
Tgt Ion: 75 Resp: 68574

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

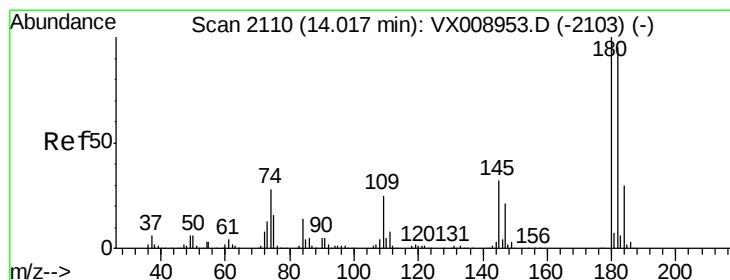
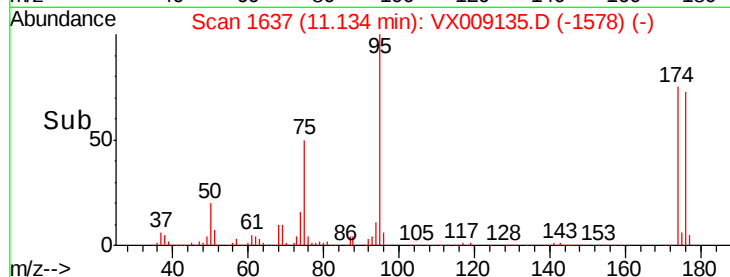
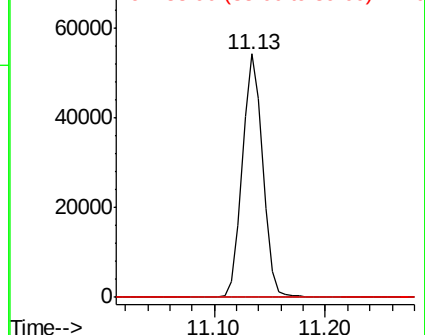
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#96

1,2,3-Trichlorobenzene

Concen: 0.203 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX009135.D

Acq: 24 Apr 2019 11:05

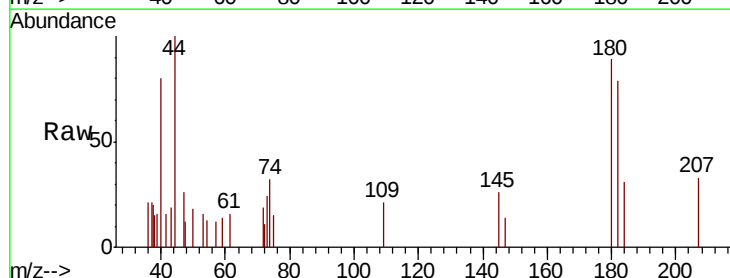
Tgt Ion: 180 Resp: 564

Ion Ratio Lower Upper

180 100

182 83.9 47.8 143.4

145 22.5 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

