

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\  
 Data File : VX012967.D  
 Acq On : 10 Oct 2019 01:50  
 Operator : JC/SP  
 Sample : K5260-10  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-MMW0012

Quant Time: Oct 10 06:49:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 171507   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 286380   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 248578   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 95524    | 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   | 113142   | 52.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.56% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 81571    | 49.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.26%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 344096   | 53.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.36% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 114614   | 46.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.02%  |          |

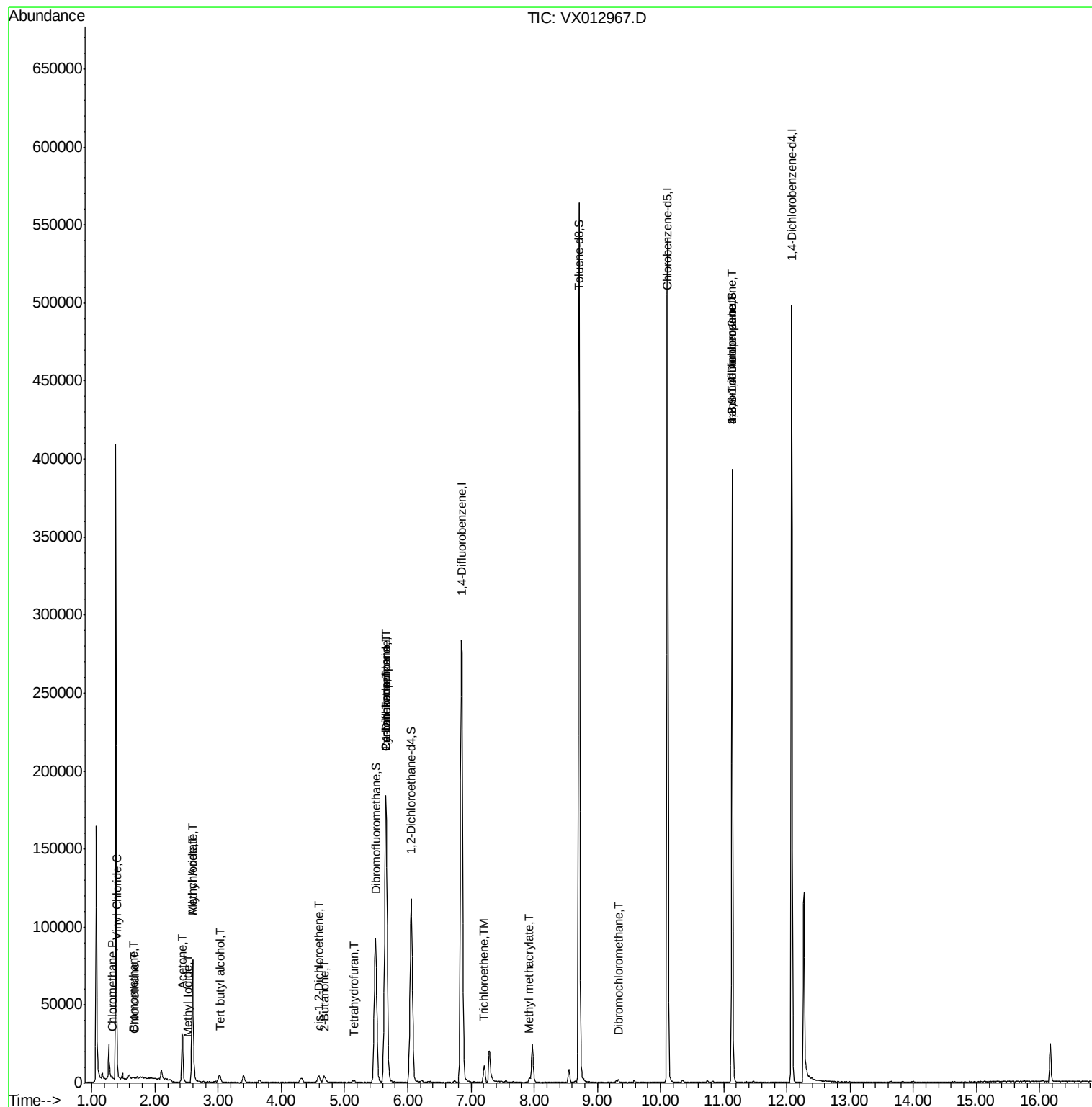
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 860      | 0.452  | ug/l   | 99     |
| 4) Vinyl Chloride              | 1.40  | 62   | 898      | 0.457  | ug/l   | 93     |
| 5) Bromomethane                | 1.66  | 94   | 354      | 0.434  | ug/l # | 3      |
| 6) Chloroethane                | 1.68  | 64   | 296      | 0.613  | ug/l # | 43     |
| 10) Methyl Iodide              | 2.51  | 142  | 37       | 5.099  | ug/l # | 40     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 5438     | 9.570  | ug/l # | 91     |
| 14) Allyl chloride             | 2.59  | 41   | 7362     | 2.385  | ug/l # | 61     |
| 16) Acetone                    | 2.43  | 43   | 31456    | 27.840 | ug/l   | 93     |
| 18) Methyl Acetate             | 2.59  | 43   | 19363    | 7.230  | ug/l # | 51     |
| 25) 2-Butanone                 | 4.68  | 43   | 4192     | 2.674  | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 2840     | 1.326  | ug/l   | 91     |
| 29) Tetrahydrofuran            | 5.15  | 42   | 736      | 0.763  | ug/l # | 49     |
| 31) Cyclohexane                | 5.65  | 56   | 3706     | 1.191  | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 13265    | 5.268  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 17973    | 7.334  | ug/l # | 17     |
| 44) Trichloroethene            | 7.20  | 130  | 4317     | 2.093  | ug/l   | 91     |
| 48) Methyl methacrylate        | 7.92  | 41   | 1443     | 0.655  | ug/l # | 26     |
| 60) Dibromochloromethane       | 9.34  | 129  | 61       | 1.885  | ug/l # | 10     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 57753    | 27.259 | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 57753    | 68.453 | ug/l # | 10     |

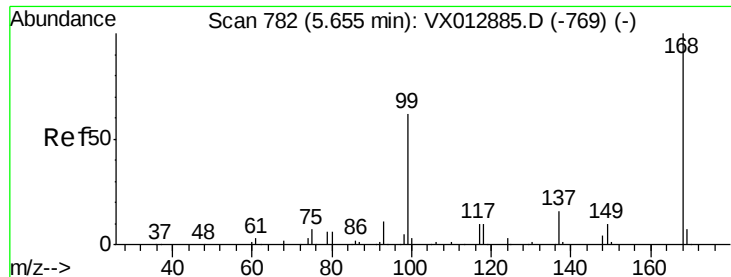
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Oct 09 01:51:23 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

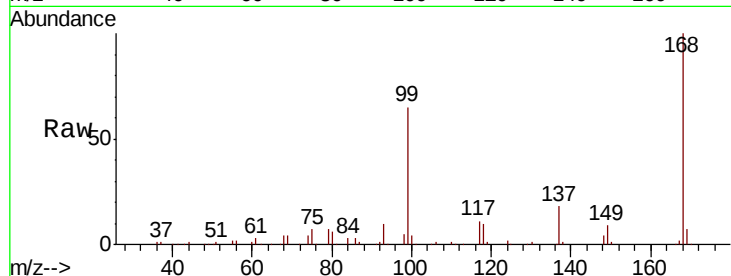
FA19-MMW0012

Tot Ion:168 Resp: 171507

Ion Ratio Lower Upper

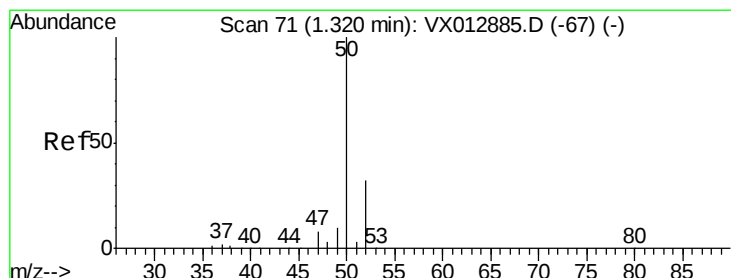
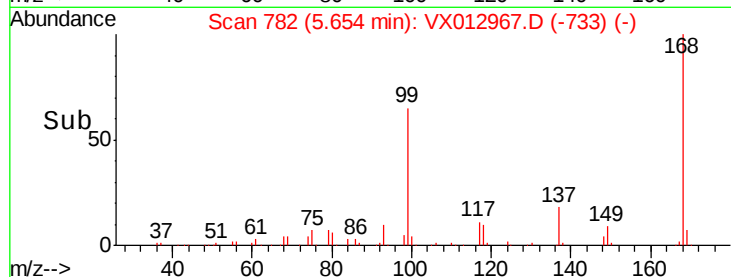
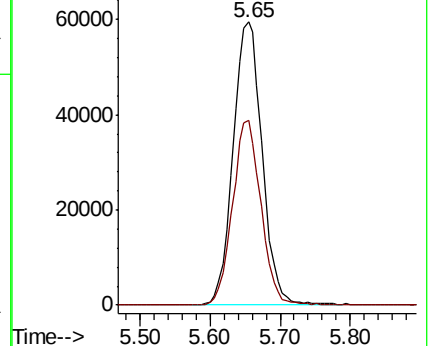
168 100

99 65.5 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.452 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012967.D

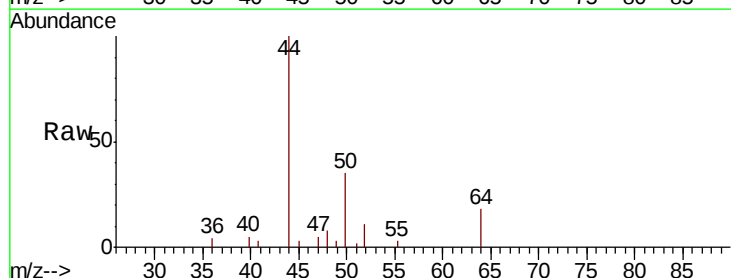
Acq: 10 Oct 2019 01:50

Tgt Ion: 50 Resp: 860

Ion Ratio Lower Upper

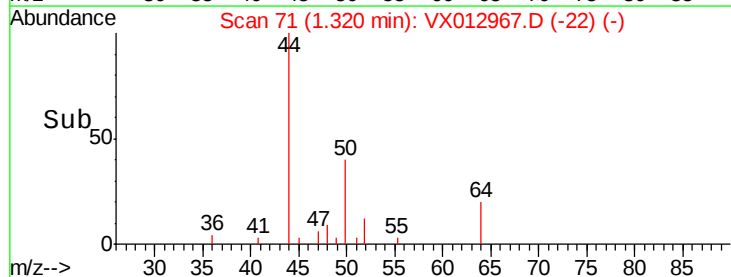
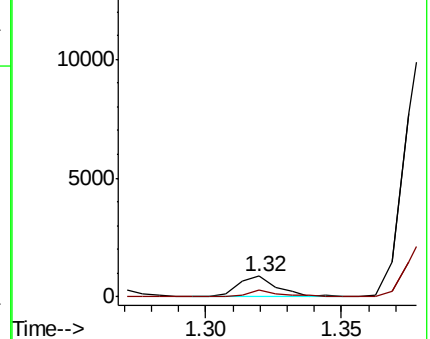
50 100

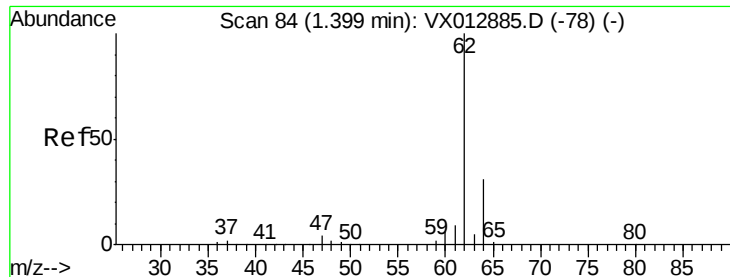
52 30.9 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.457 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

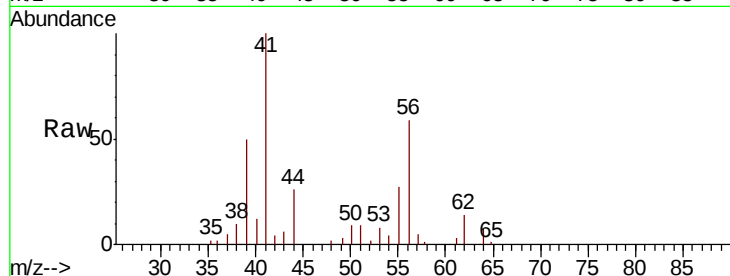
FA19-MMW0012

Tot Ion: 62 Resp: 898

Ion Ratio Lower Upper

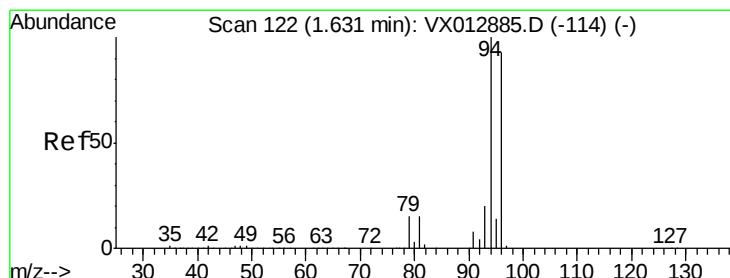
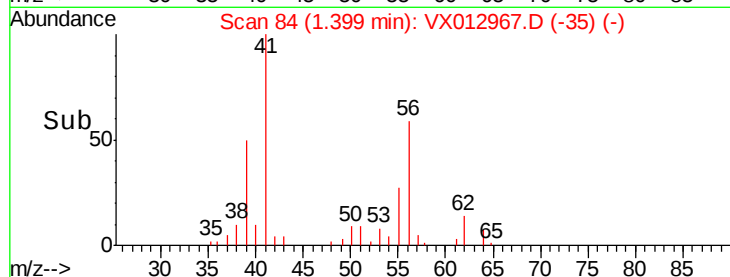
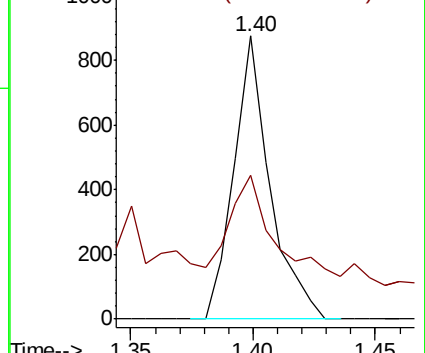
62 100

64 35.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.434 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX012967.D

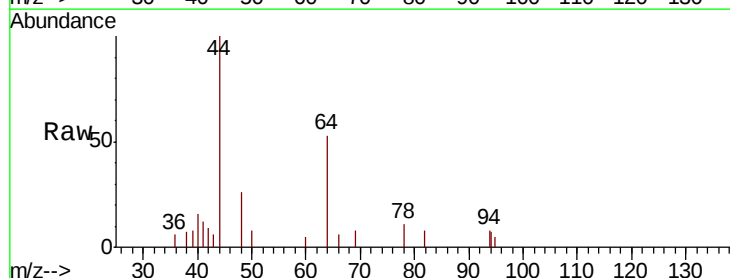
Acq: 10 Oct 2019 01:50

Tgt Ion: 94 Resp: 354

Ion Ratio Lower Upper

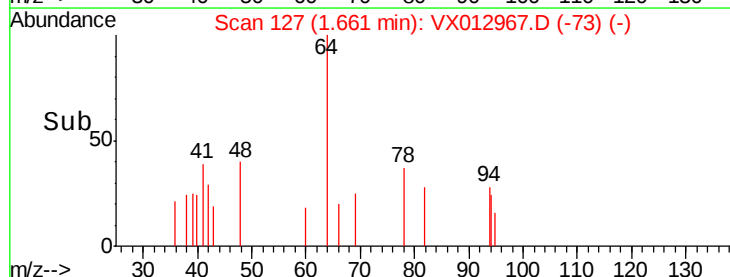
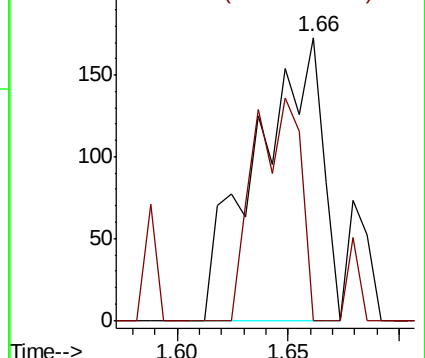
94 100

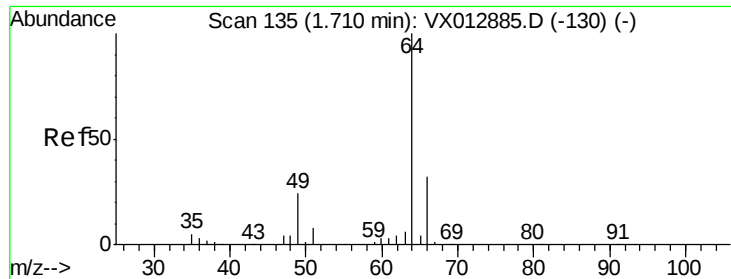
96 0.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.613 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

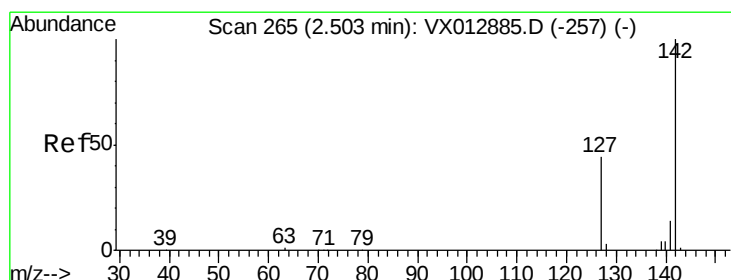
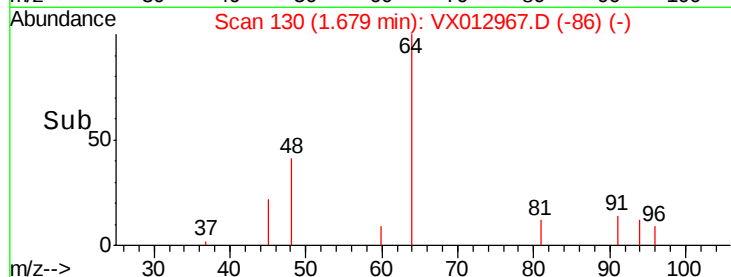
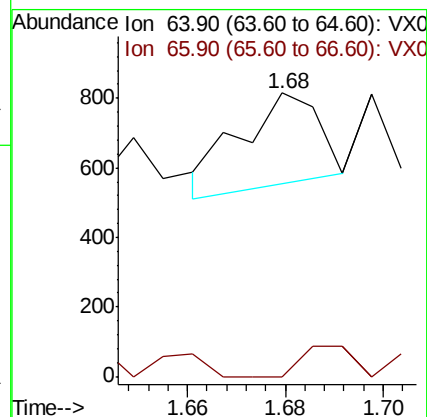
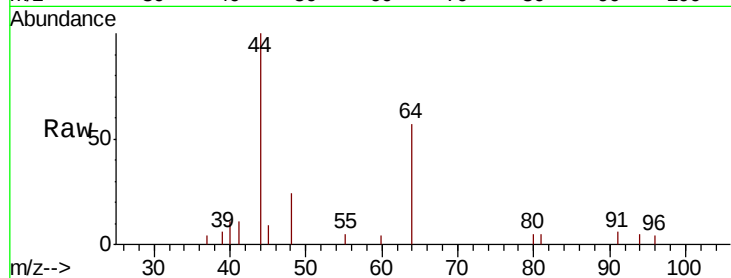
FA19-MMW0012

Tot Ion: 64 Resp: 296

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.099 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

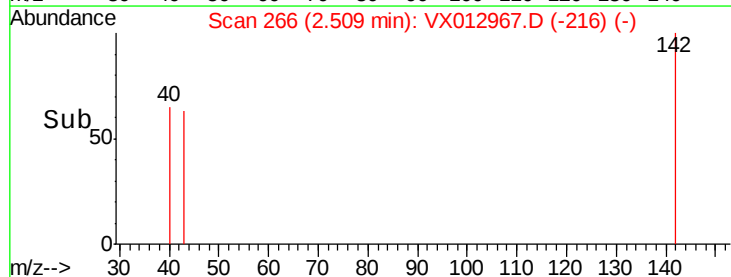
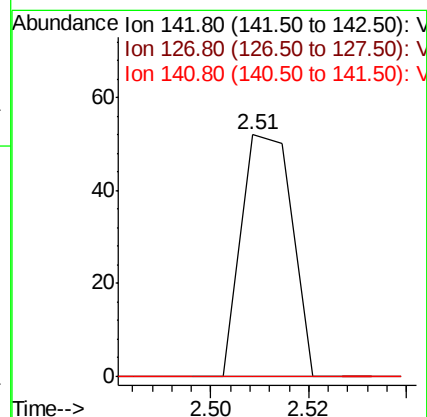
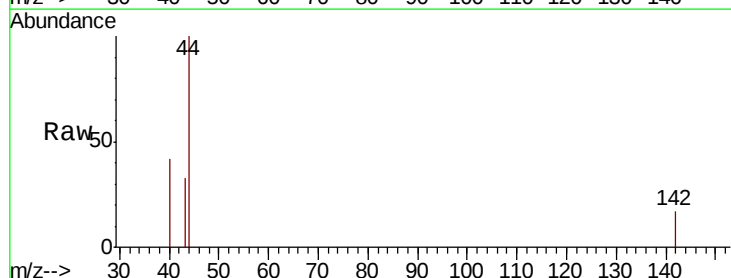
Tgt Ion: 142 Resp: 37

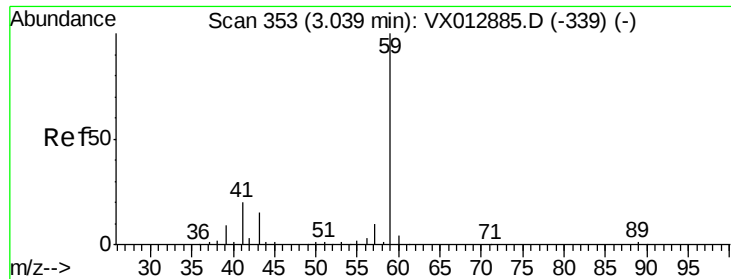
Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#

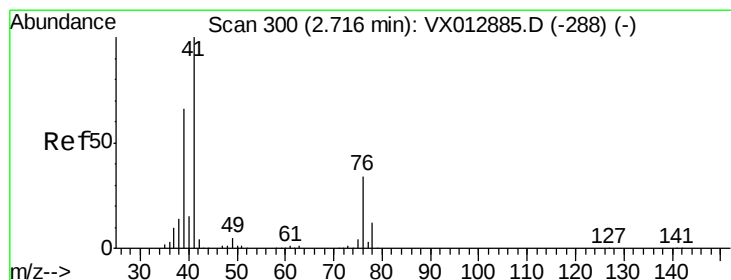
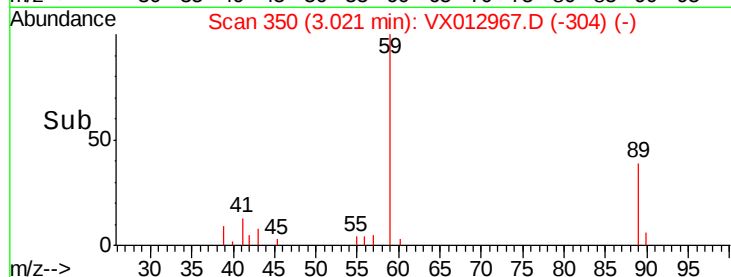
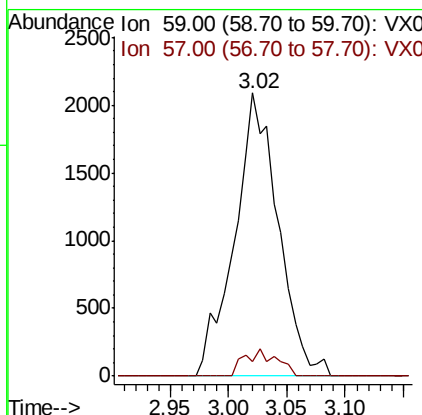
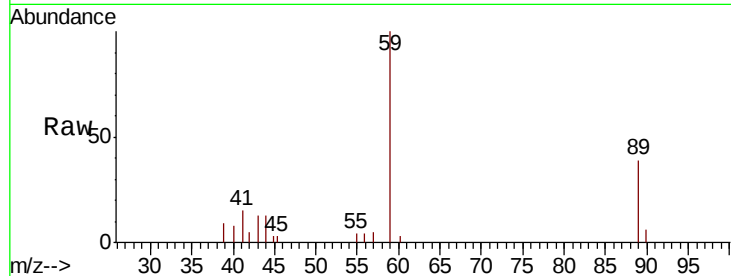




#11  
Tert butyl alcohol  
Concen: 9.570 ug/l  
RT: 3.02 min Scan# 350  
Delta R.T. -0.02 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

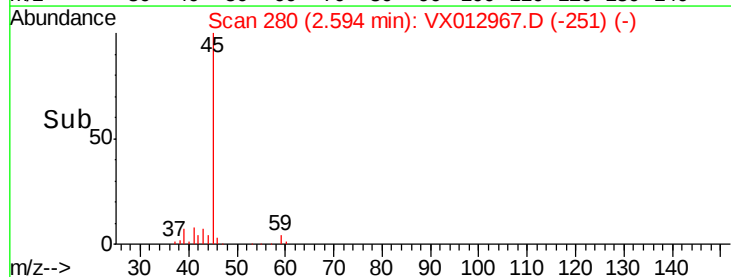
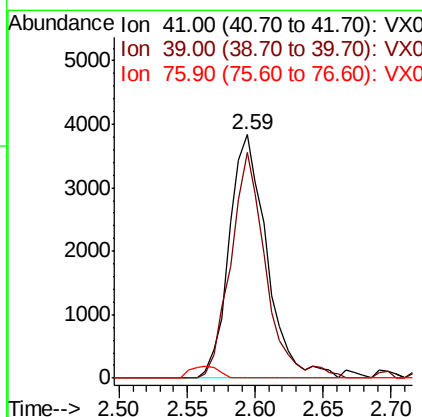
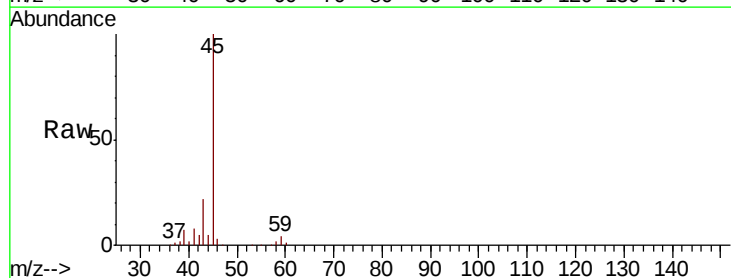
Instrument :  
MSVOA\_X  
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FA19-MMW0012

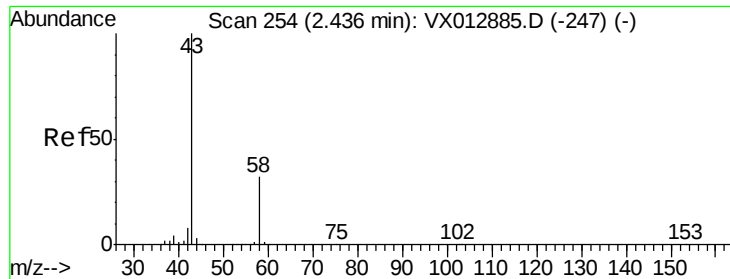
Tot Ion: 59 Resp: 5438  
Ion Ratio Lower Upper  
59 100  
57 7.0 8.3 12.5#



#14  
Allyl chloride  
Concen: 2.385 ug/l  
RT: 2.59 min Scan# 280  
Delta R.T. -0.12 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Tgt Ion: 41 Resp: 7362  
Ion Ratio Lower Upper  
41 100  
39 86.5 51.0 76.6#  
76 0.0 26.2 39.4#





#16

Acetone

Concen: 27.840 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

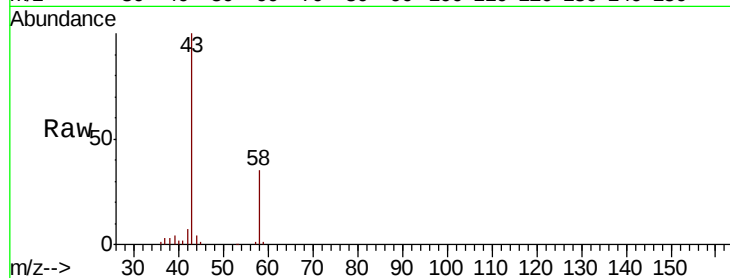
FA19-MMW0012

Tot Ion: 43 Resp: 31456

Ion Ratio Lower Upper

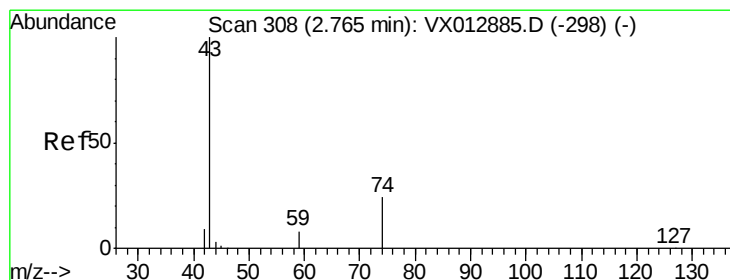
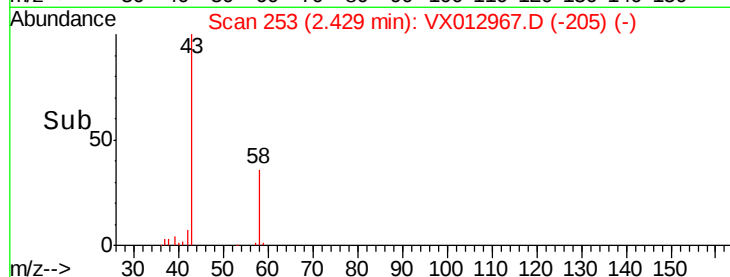
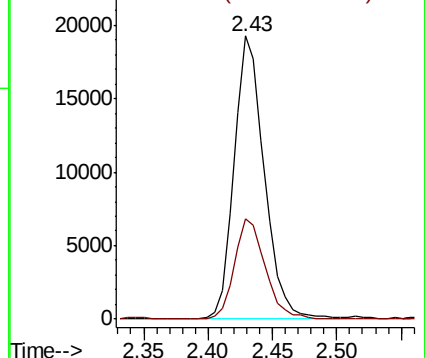
43 100

58 35.5 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 7.230 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012967.D

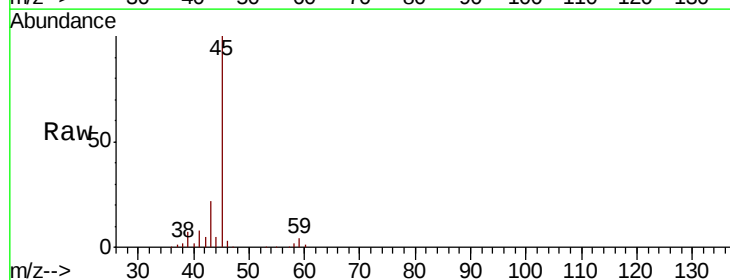
Acq: 10 Oct 2019 01:50

Tgt Ion: 43 Resp: 19363

Ion Ratio Lower Upper

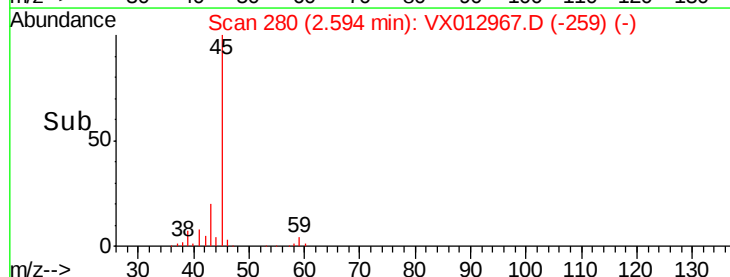
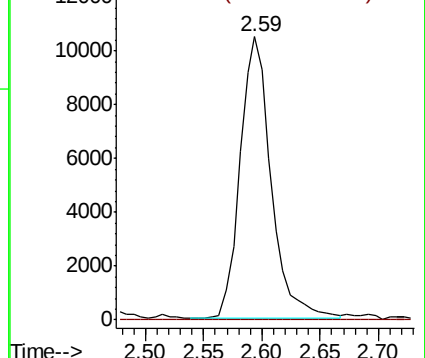
43 100

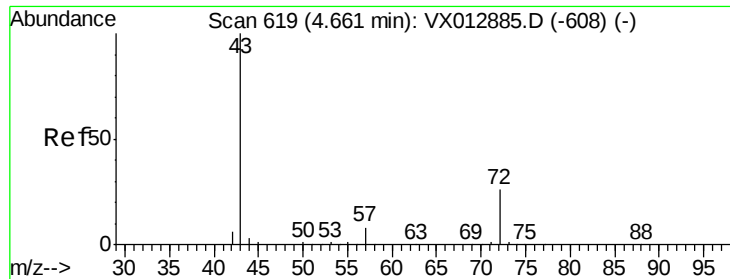
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 2.674 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

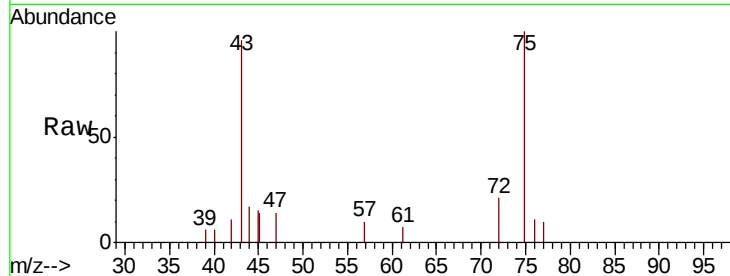
FA19-MMW0012

Tot Ion: 43 Resp: 4192

Ion Ratio Lower Upper

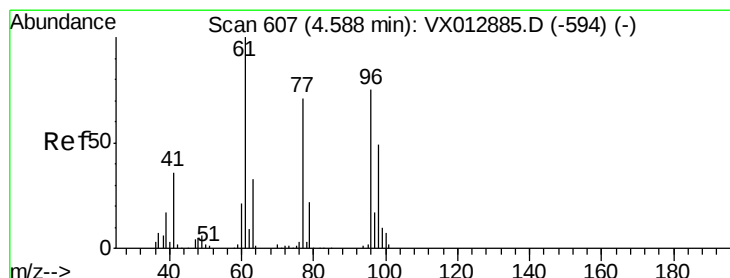
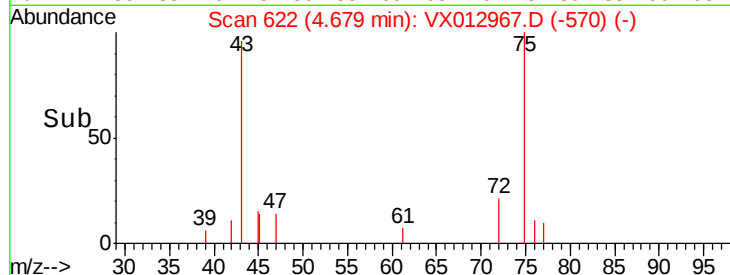
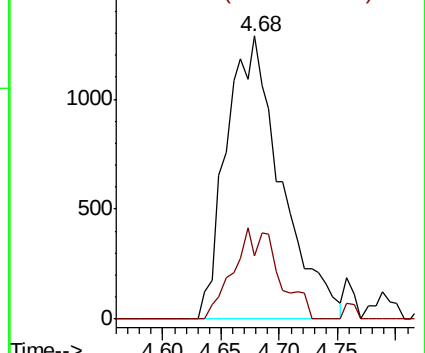
43 100

72 22.1 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1.326 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

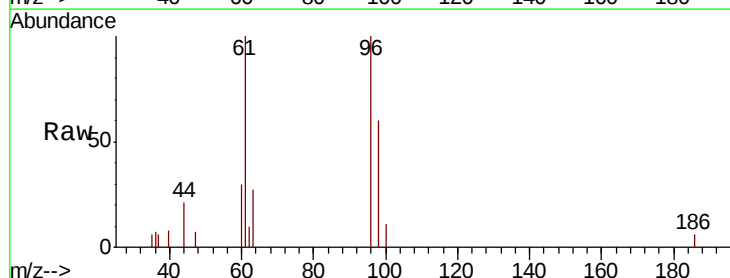
Tgt Ion: 96 Resp: 2840

Ion Ratio Lower Upper

96 100

61 130.5 0.0 290.6

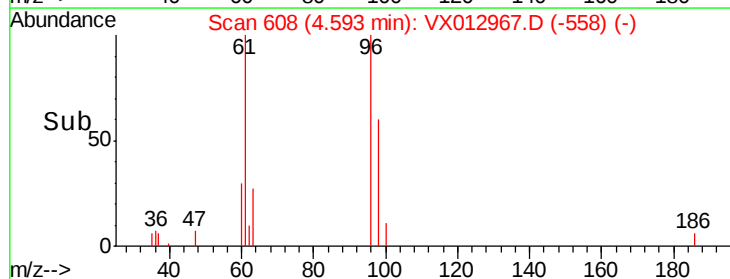
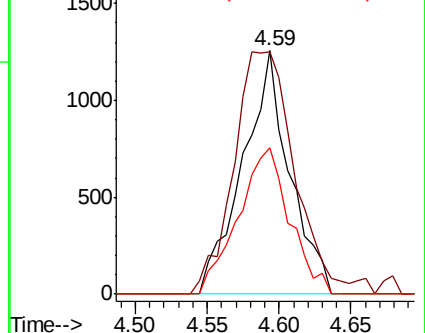
98 65.8 0.0 128.8

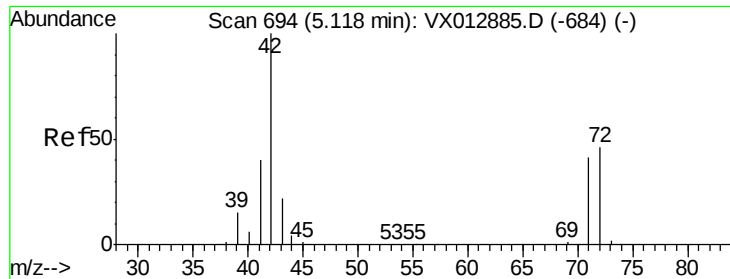


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

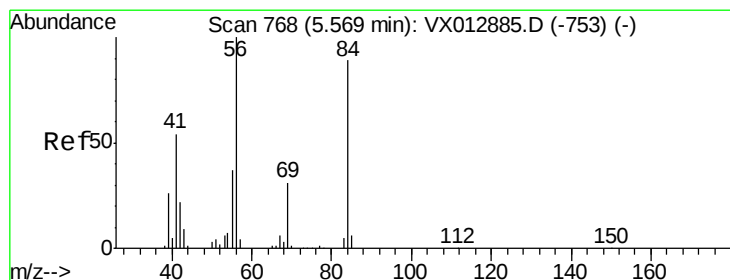
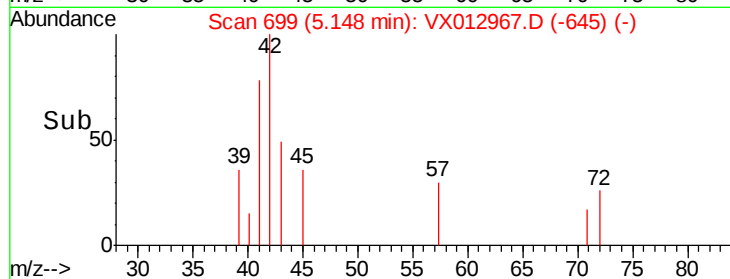
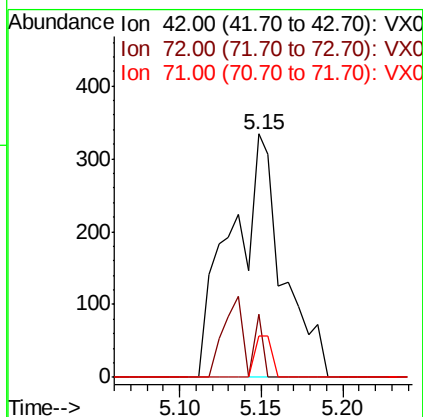
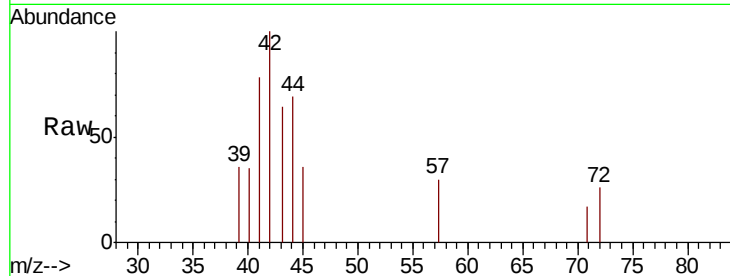




#29  
Tetrahydrofuran  
Concen: 0.763 ug/l  
RT: 5.15 min Scan# 699  
Delta R.T. 0.03 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

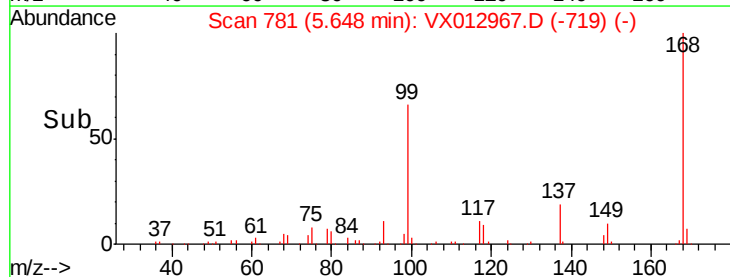
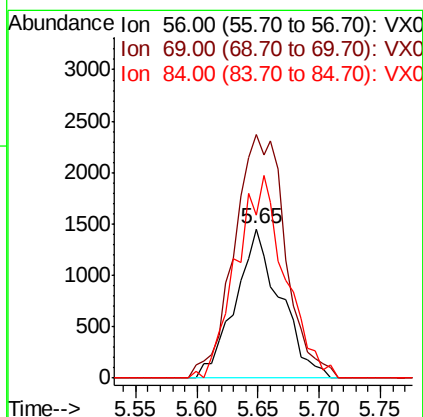
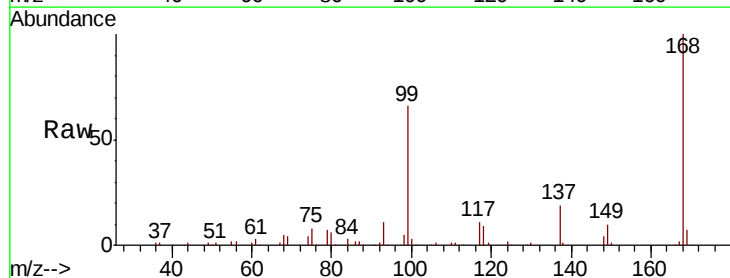
Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-MMW0012

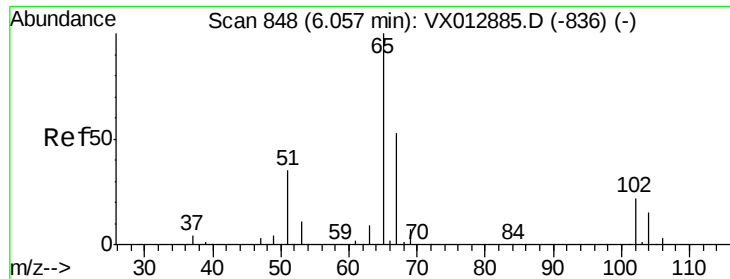
Tot Ion: 42 Resp: 736  
Ion Ratio Lower Upper  
42 100  
72 16.6 36.9 55.3#  
71 5.6 33.5 50.3#



#31  
Cyclohexane  
Concen: 1.191 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. 0.08 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Tgt Ion: 56 Resp: 3706  
Ion Ratio Lower Upper  
56 100  
69 163.2 25.2 37.8#  
84 109.0 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 52.781 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

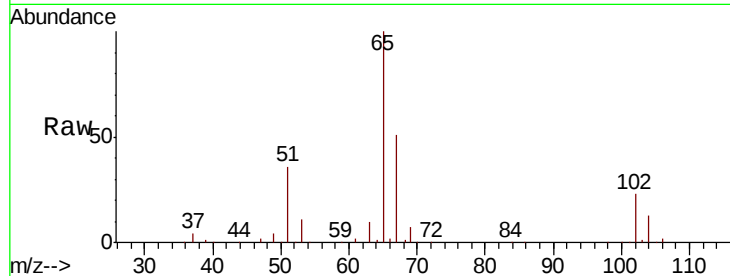
FA19-MMW0012

Tot Ion: 65 Resp: 113142

Ion Ratio Lower Upper

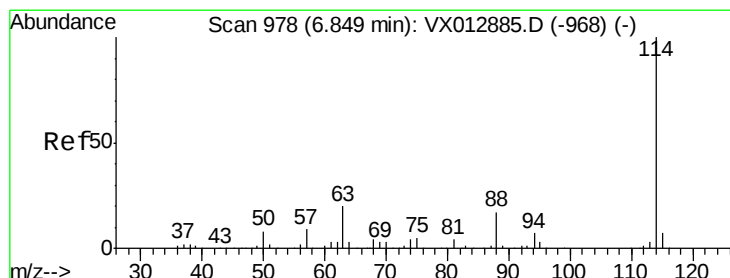
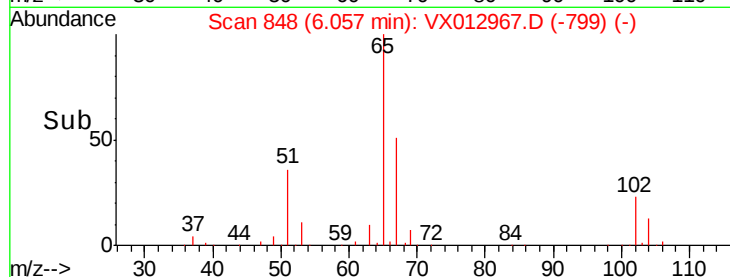
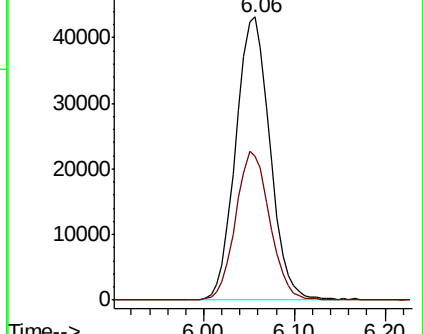
65 100

67 52.2 0.0 104.4



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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

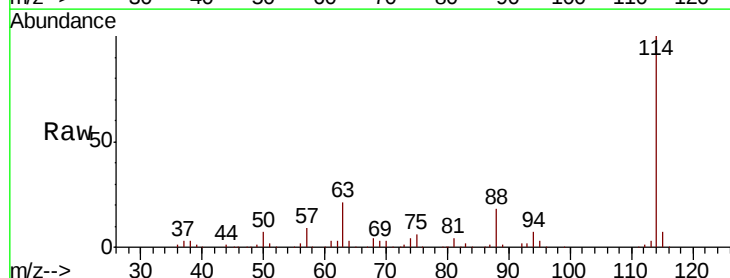
Tgt Ion: 114 Resp: 286380

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

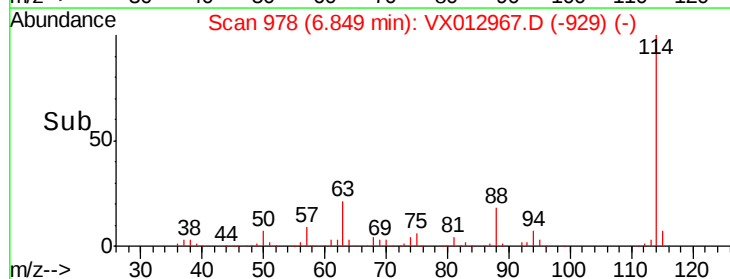
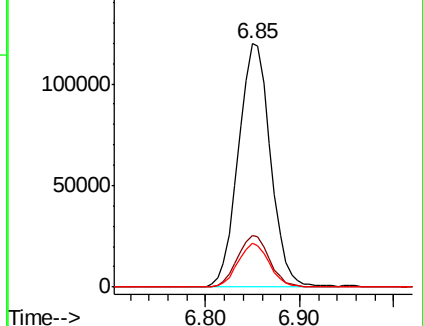
88 18.2 0.0 33.8

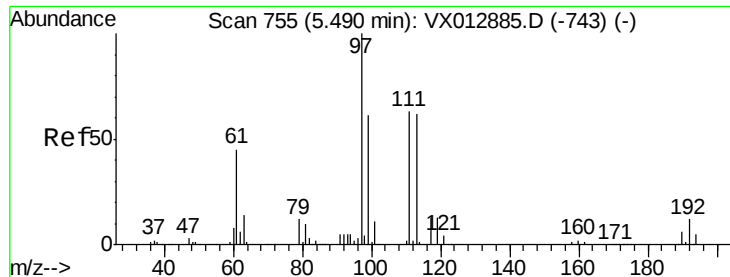


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

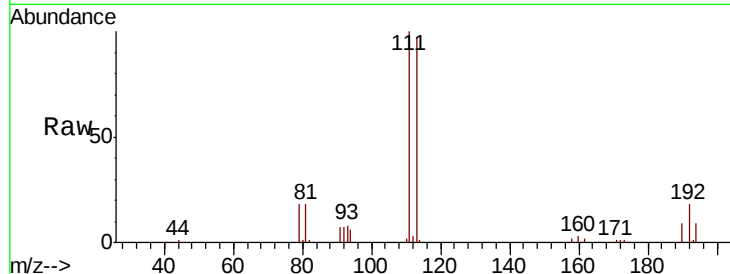




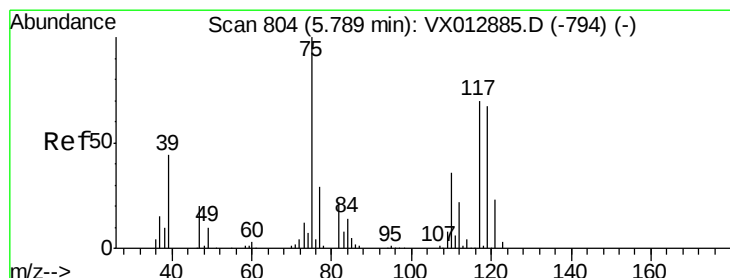
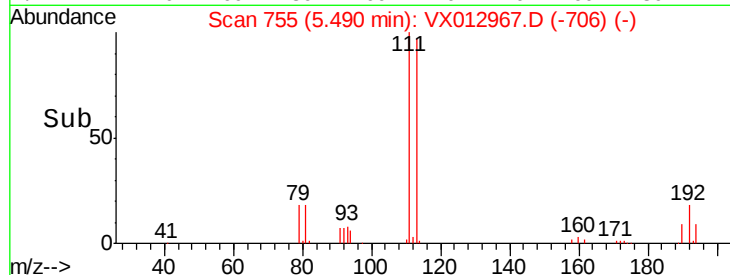
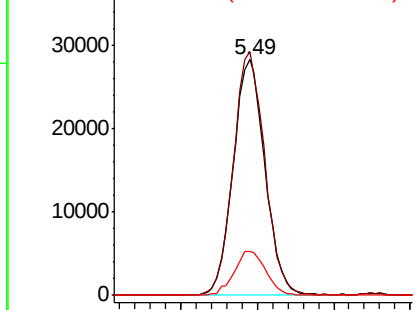
#35  
Dibromofluoromethane  
Concen: 49.627 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. -0.00 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-MMW0012

Tot Ion:113 Resp: 81571  
Ion Ratio Lower Upper  
113 100  
111 102.1 83.2 124.8  
192 18.8 15.4 23.2

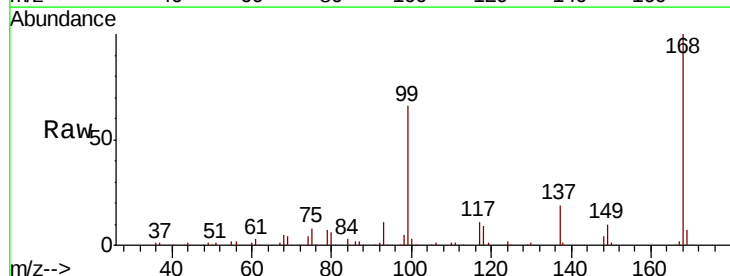


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

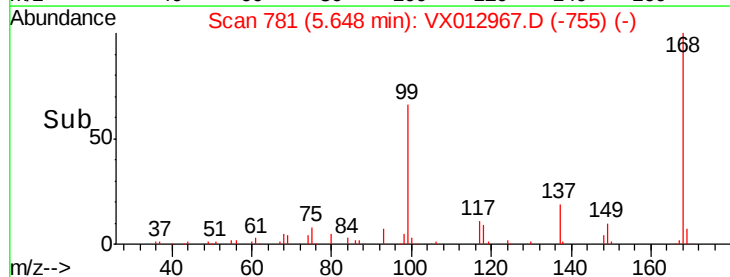
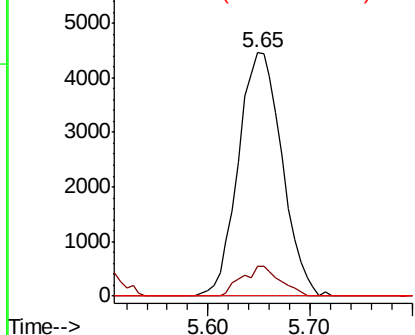


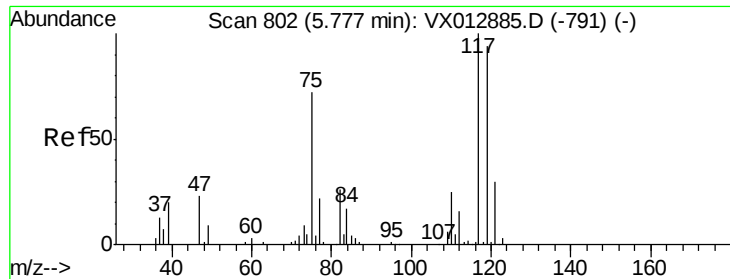
#36  
1,1-Dichloropropene  
Concen: 5.268 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. -0.14 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Tgt Ion: 75 Resp: 13265  
Ion Ratio Lower Upper  
75 100  
110 10.7 17.6 52.9#  
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.334 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

FA19-MMW0012

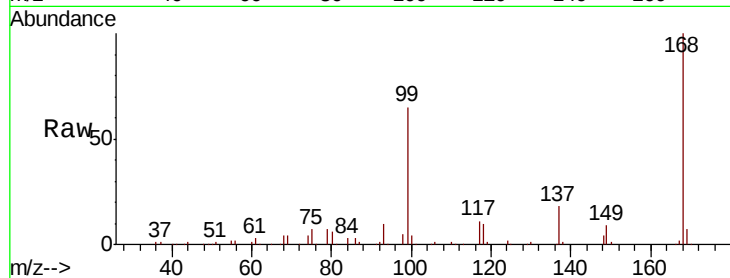
Tot Ion:117 Resp: 17973

Ion Ratio Lower Upper

117 100

119 4.7 74.5 111.7#

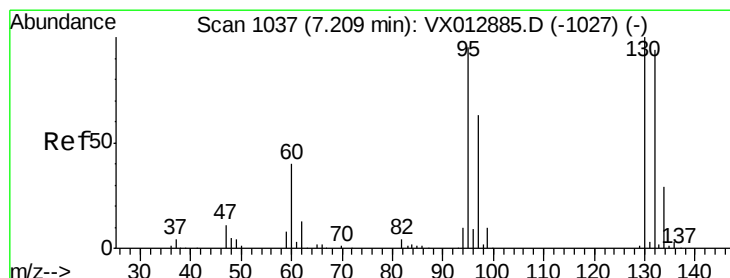
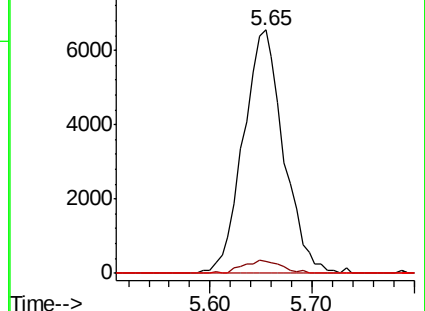
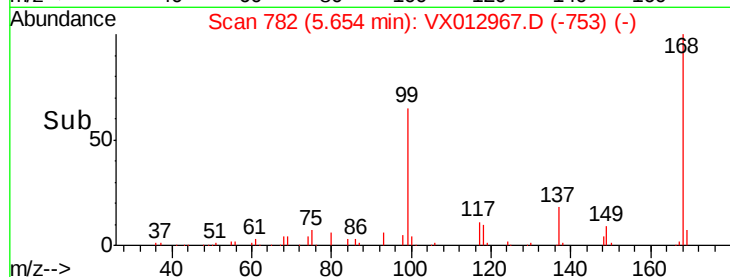
121 0.0 24.2 36.4#



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



#44

Trichloroethene

Concen: 2.093 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX012967.D

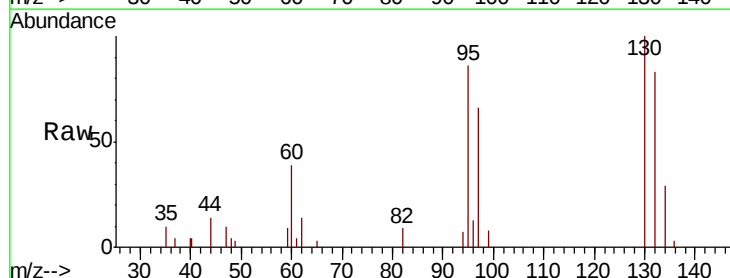
Acq: 10 Oct 2019 01:50

Tgt Ion:130 Resp: 4317

Ion Ratio Lower Upper

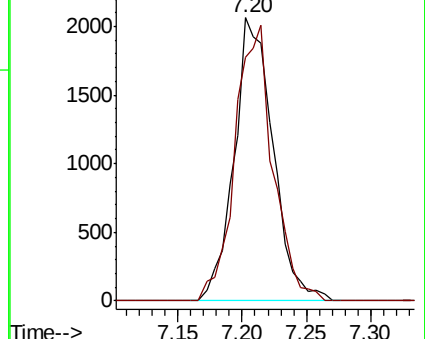
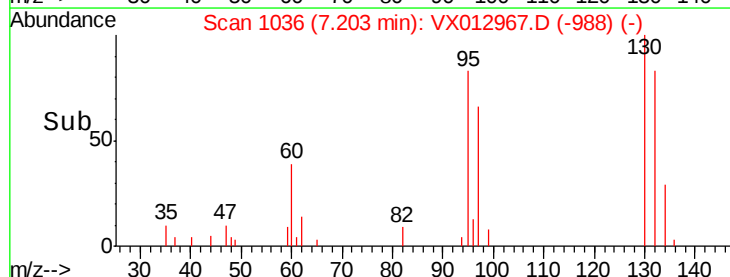
130 100

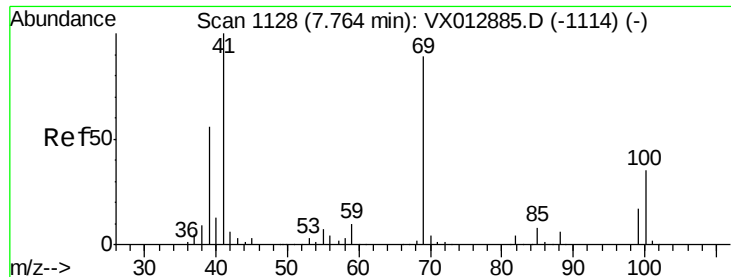
95 86.1 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#48

Methyl methacrylate

Concen: 0.655 ug/l

RT: 7.92 min Scan# 1154

Delta R.T. 0.16 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

FA19-MMW0012

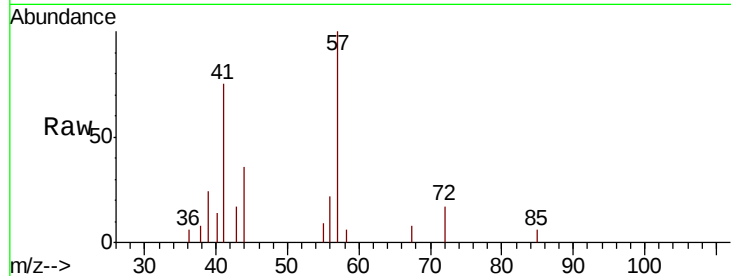
Tot Ion: 41 Resp: 1443

Ion Ratio Lower Upper

41 100

69 0.0 68.7 103.1#

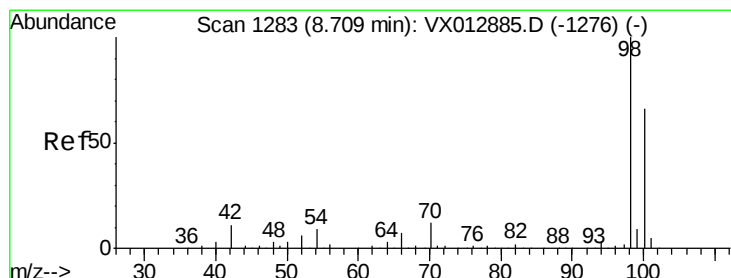
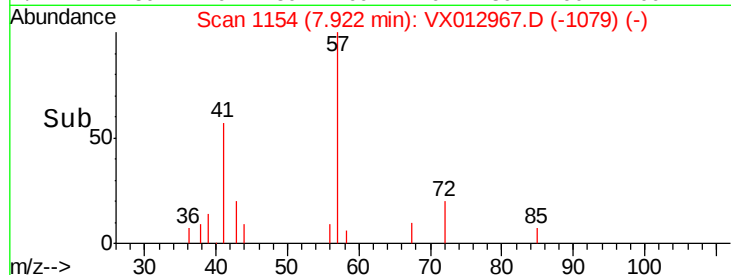
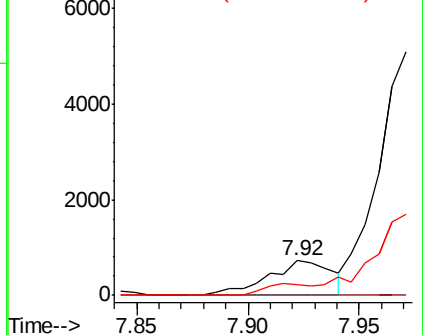
39 24.1 44.3 66.5#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 53.675 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012967.D

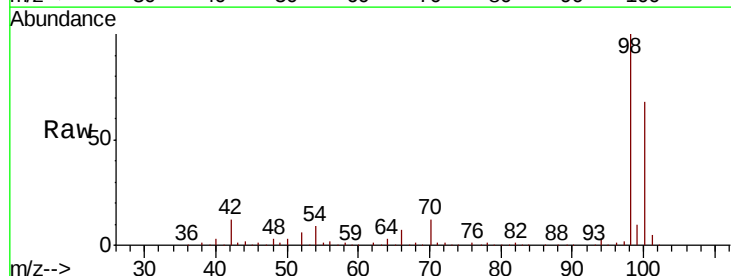
Acq: 10 Oct 2019 01:50

Tgt Ion: 98 Resp: 344096

Ion Ratio Lower Upper

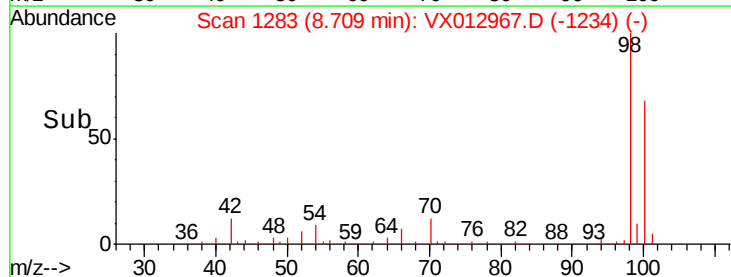
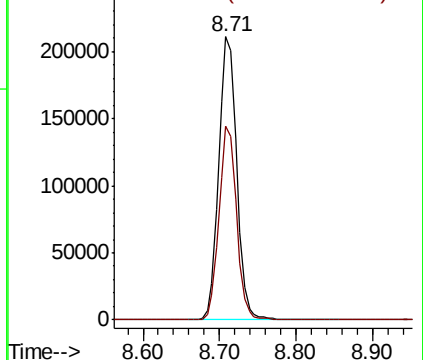
98 100

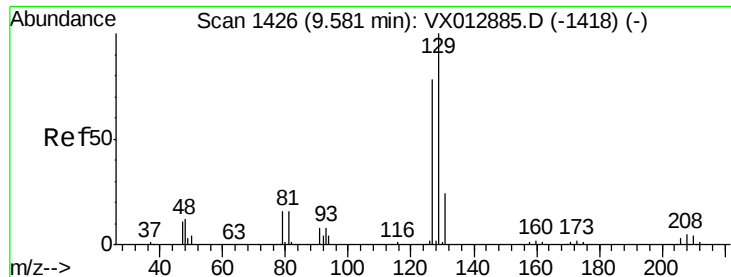
100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 1.885 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA\_X

ClientSampleId :

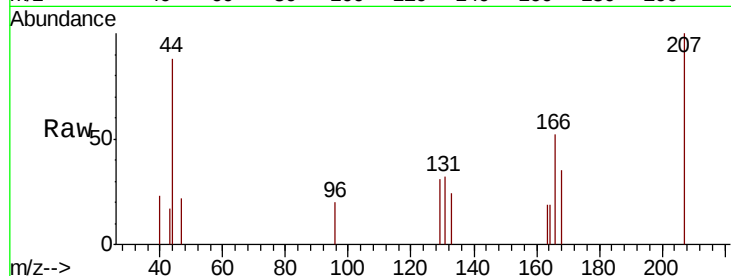
FA19-MMW0012

Tot Ion:129 Resp: 61

Ion Ratio Lower Upper

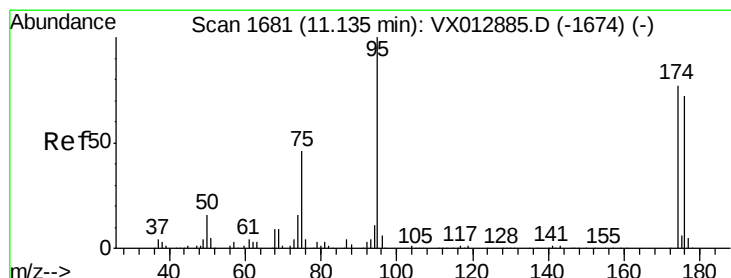
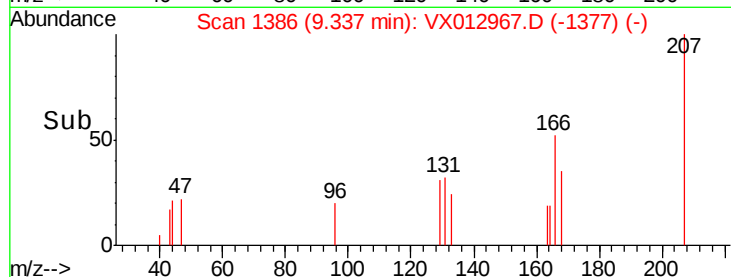
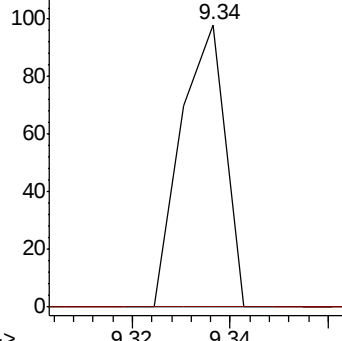
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.013 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

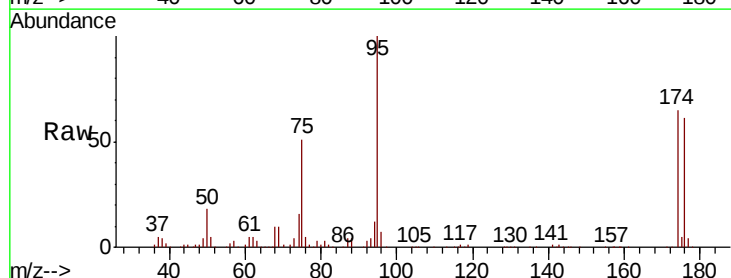
Tgt Ion: 95 Resp: 114614

Ion Ratio Lower Upper

95 100

174 72.4 0.0 143.4

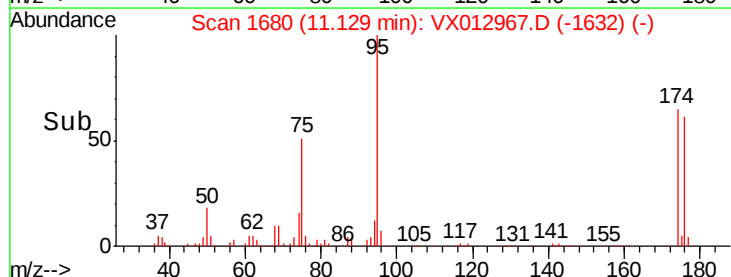
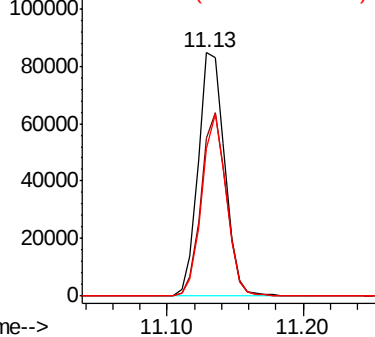
176 69.4 0.0 136.0

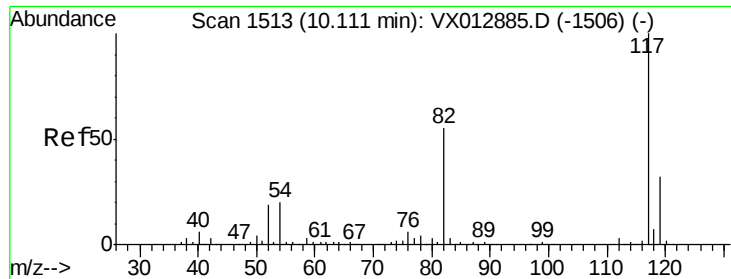


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

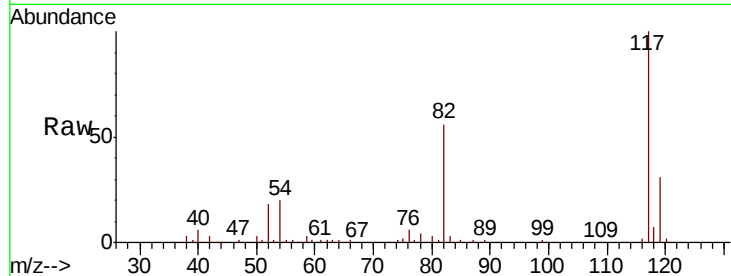




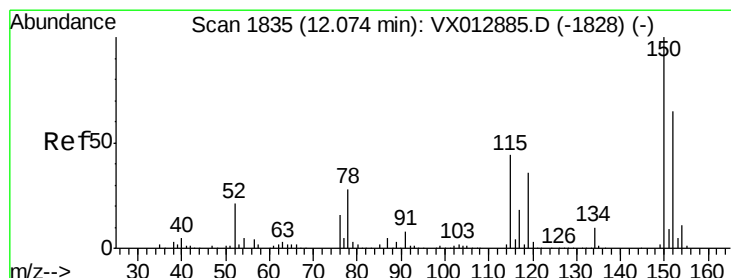
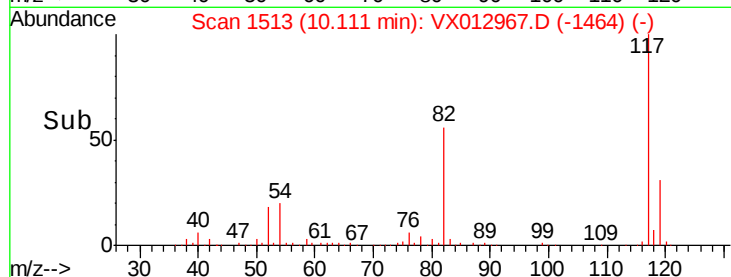
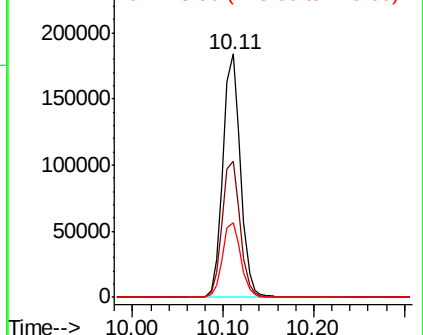
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-MMW0012

Tot Ion:117 Resp: 248578  
Ion Ratio Lower Upper  
117 100  
82 56.1 44.1 66.1  
119 30.8 25.8 38.8

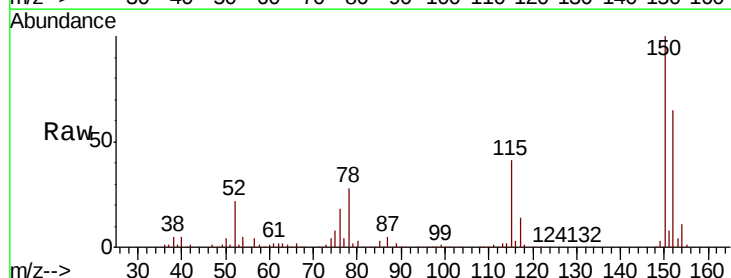


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

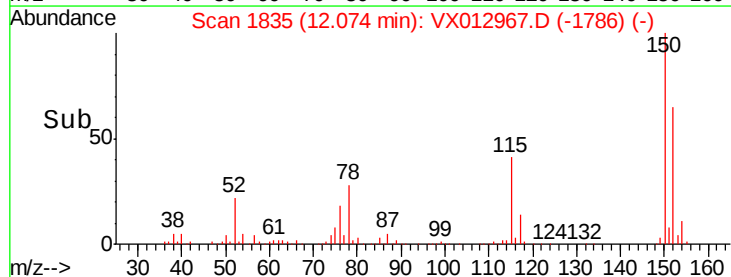
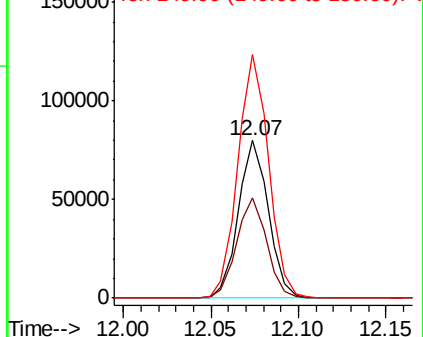


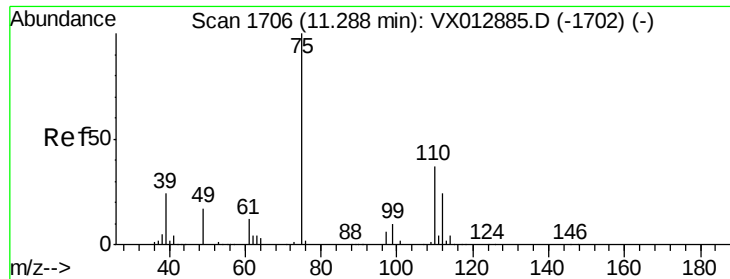
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012967.D  
Acq: 10 Oct 2019 01:50

Tgt Ion:152 Resp: 95524  
Ion Ratio Lower Upper  
152 100  
115 64.0 44.5 133.5  
150 158.4 0.0 353.4



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

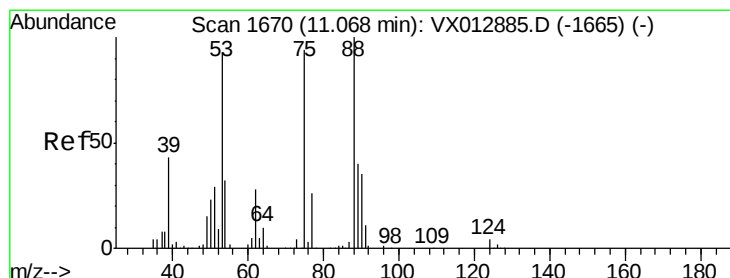
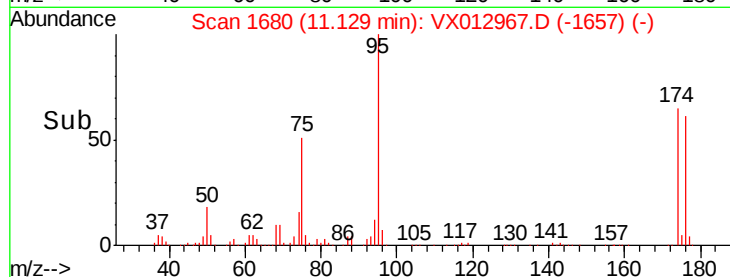
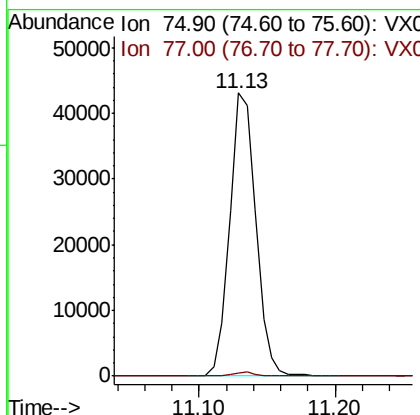
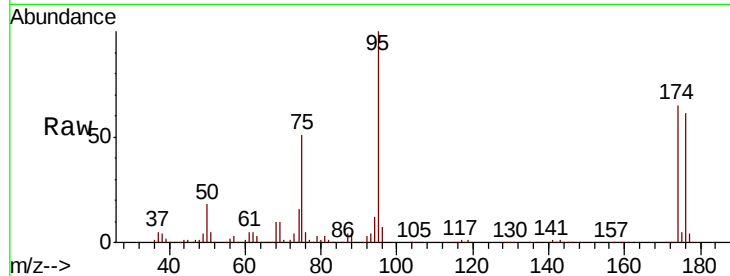




#76  
 1,2,3-Trichloropropane  
 Concen: 27.259 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.16 min  
 Lab File: VX012967.D  
 Acq: 10 Oct 2019 01:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-MMW0012

Tot Ion: 75 Resp: 57753  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 22.9 68.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.453 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. 0.06 min  
 Lab File: VX012967.D  
 Acq: 10 Oct 2019 01:50

Tgt Ion: 75 Resp: 57753  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.0 37.4 56.2#

