

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX030719\  
 Data File : VX007881.D  
 Acq On : 07 Mar 2019 14:04  
 Operator : JC/SP  
 Sample : K1783-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FB-2019-03-05

Quant Time: Mar 08 04:42:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 291333   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 458381   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 433781   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 207867   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 162434   | 52.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.70% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 150363   | 51.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.56% |      |
| 50) Toluene-d8              | 8.71   | 98  | 558305   | 51.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.70% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 204715   | 54.22 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.44% |      |

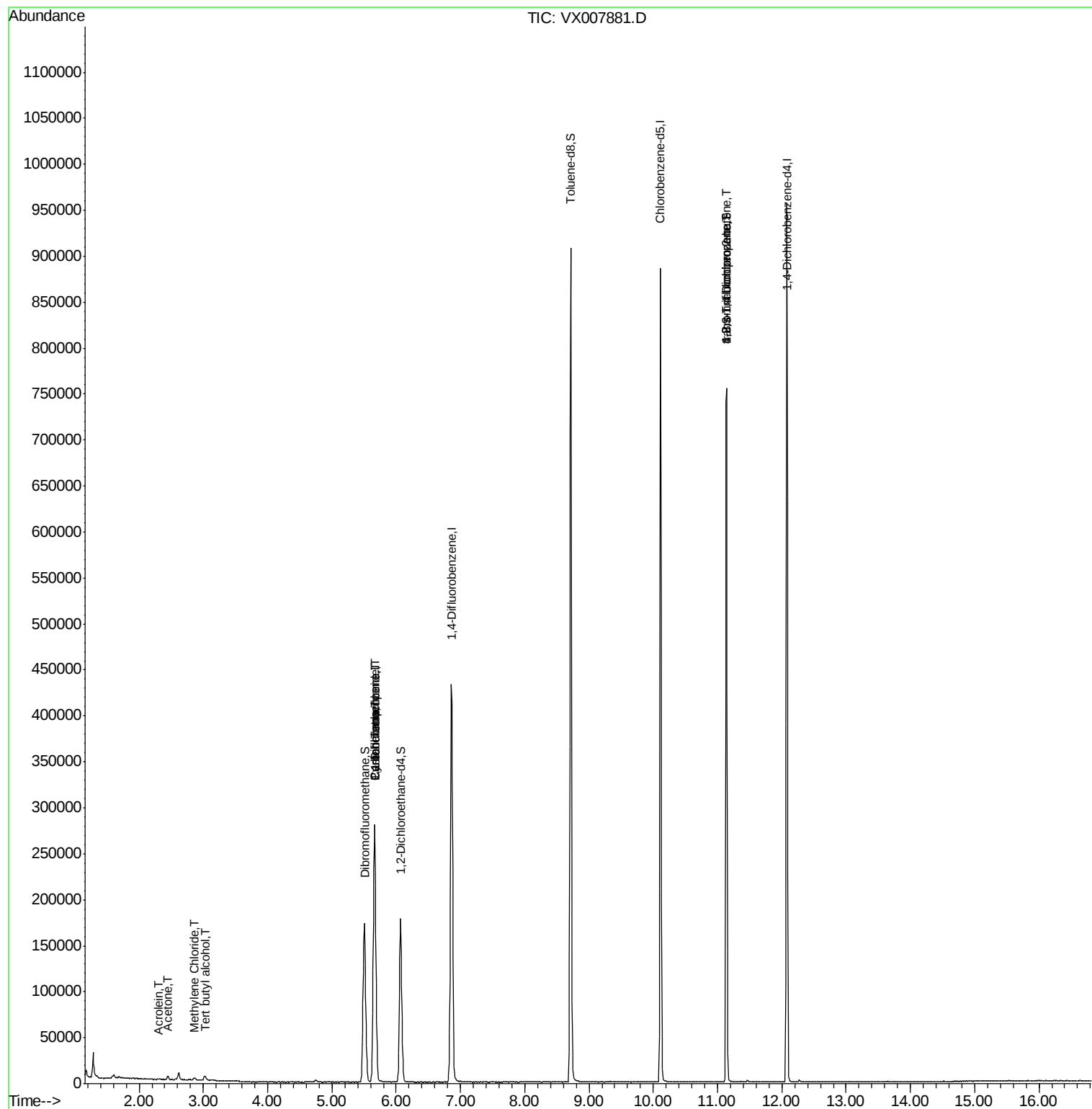
| Target Compounds               |       |     |       |             | Qvalue |
|--------------------------------|-------|-----|-------|-------------|--------|
| 5) Bromomethane                | 1.65  | 94  | 204   | Below Cal   | # 80   |
| 11) Tert butyl alcohol         | 3.02  | 59  | 3097  | 4.506 ug/l  | # 76   |
| 13) Acrolein                   | 2.29  | 56  | 96    | 1.787 ug/l  | # 18   |
| 16) Acetone                    | 2.45  | 43  | 4573  | 2.571 ug/l  | # 97   |
| 17) Carbon Disulfide           | 2.57  | 76  | 685   | Below Cal   | # 76   |
| 20) Methylene Chloride         | 2.86  | 84  | 947   | 0.335 ug/l  | # 83   |
| 31) Cyclohexane                | 5.66  | 56  | 4652  | 0.985 ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 5.66  | 75  | 18575 | 4.475 ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 5.66  | 117 | 24843 | 6.305 ug/l  | # 17   |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 94396 | 21.641 ug/l | # 39   |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 94396 | 69.175 ug/l | # 11   |

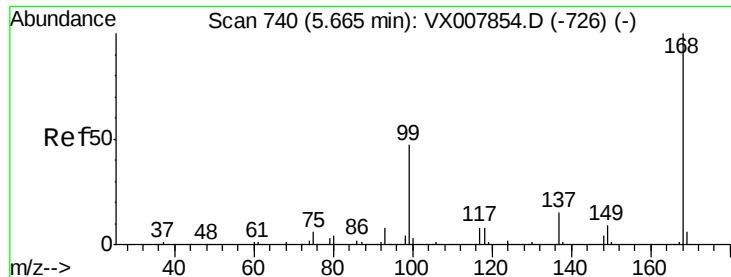
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 07 07:33:26 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

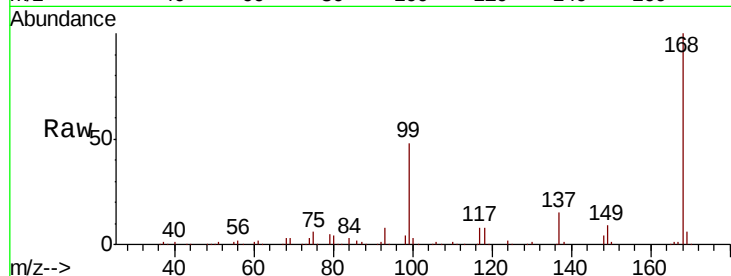
FB-2019-03-05

Tgt Ion:168 Resp: 291333

Ion Ratio Lower Upper

168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VX007854.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX007854.D (-726) (-)

5.66

120000

100000

80000

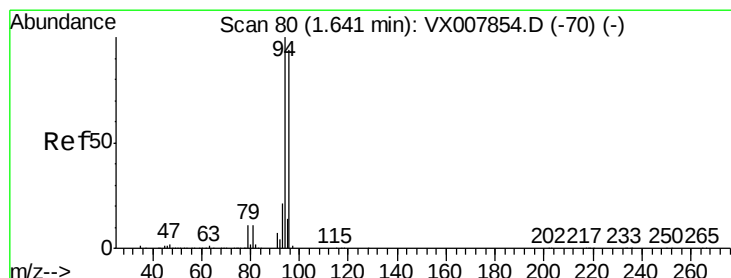
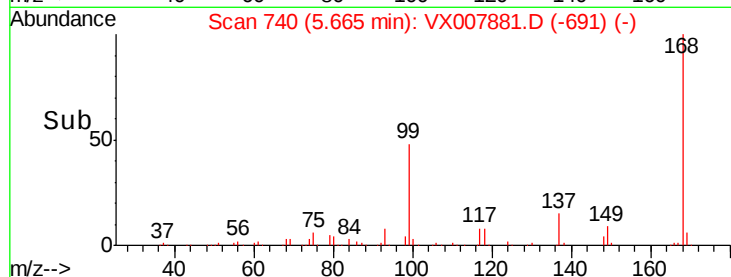
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007881.D

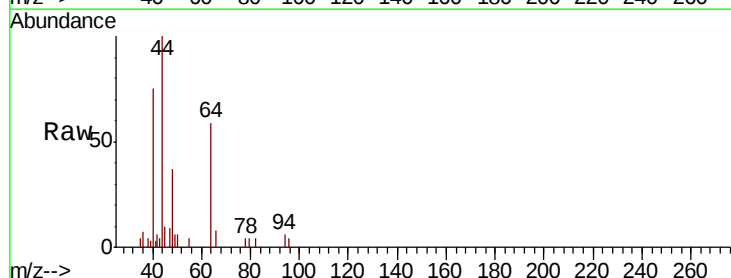
Acq: 07 Mar 2019 14:04

Tgt Ion: 94 Resp: 204

Ion Ratio Lower Upper

94 100

96 75.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX007854.D (-70) (-)

Ion 95.90 (95.60 to 96.60): VX007854.D (-70) (-)

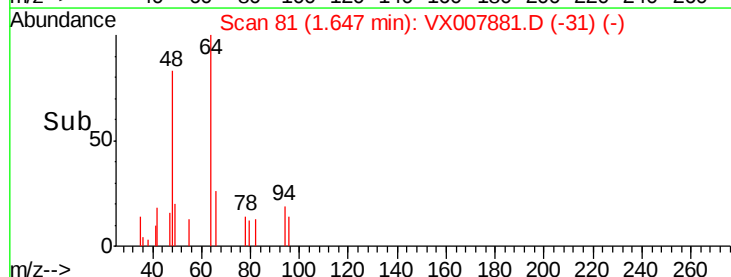
1.65

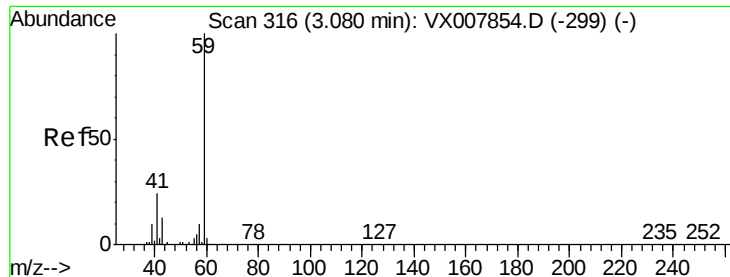
100

50

0

Time-->



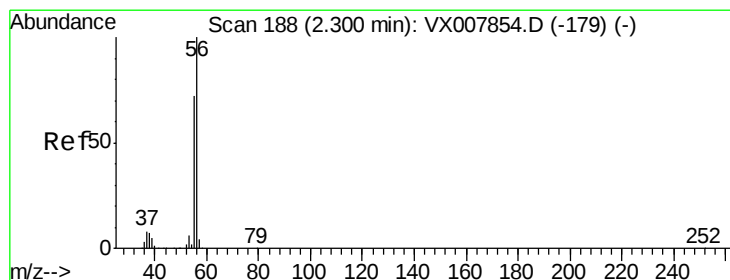
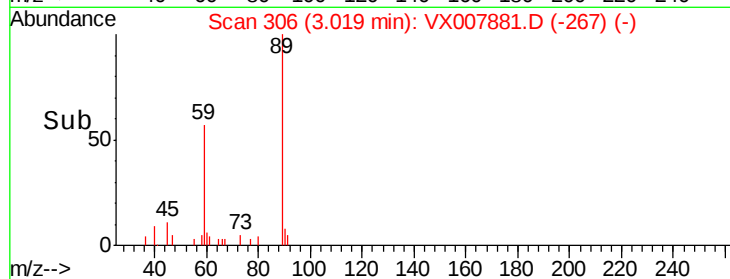
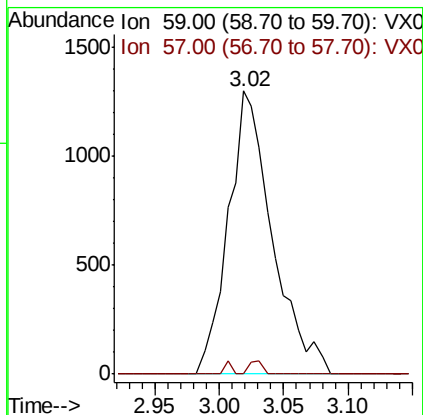
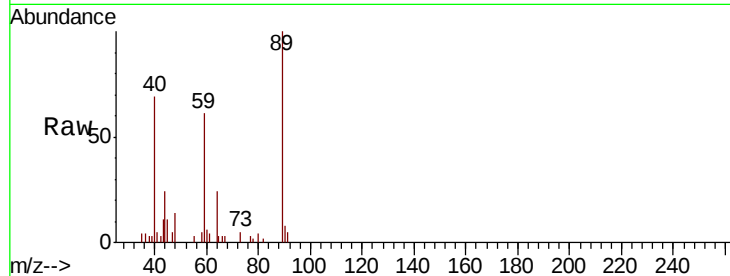


#11

Tert butyl alcohol  
 Concen: 4.506 ug/l  
 RT: 3.02 min Scan# 306  
 Delta R.T. -0.06 min  
 Lab File: VX007881.D  
 Acq: 07 Mar 2019 14:04

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FB-2019-03-05

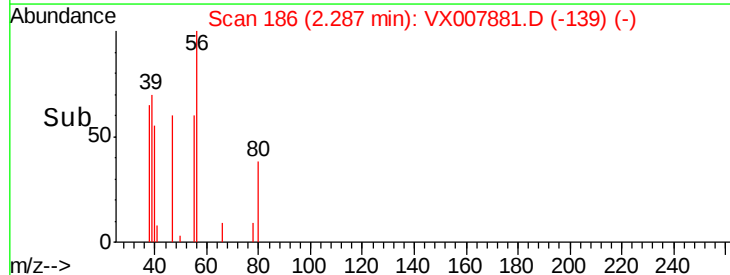
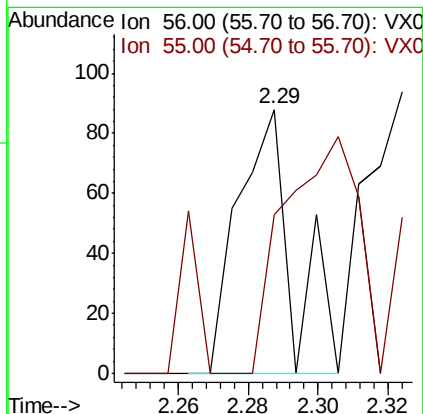
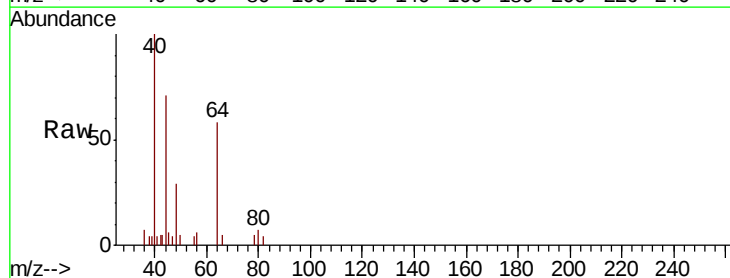
Tgt Ion: 59 Resp: 3097  
 Ion Ratio Lower Upper  
 59 100  
 57 1.4 8.2 12.2#

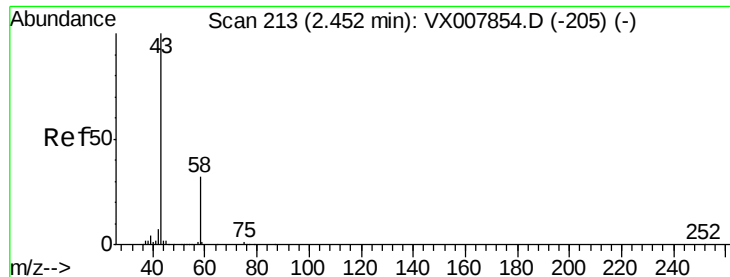


#13

Acrolein  
 Concen: 1.787 ug/l  
 RT: 2.29 min Scan# 186  
 Delta R.T. -0.01 min  
 Lab File: VX007881.D  
 Acq: 07 Mar 2019 14:04

Tgt Ion: 56 Resp: 96  
 Ion Ratio Lower Upper  
 56 100  
 55 140.6 57.8 86.6#





#16

Acetone

Concen: 2.571 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

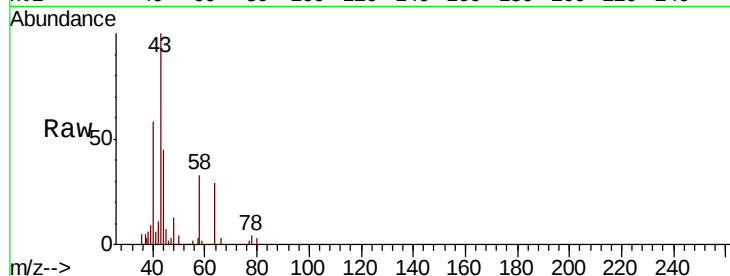
FB-2019-03-05

Tgt Ion: 43 Resp: 4573

Ion Ratio Lower Upper

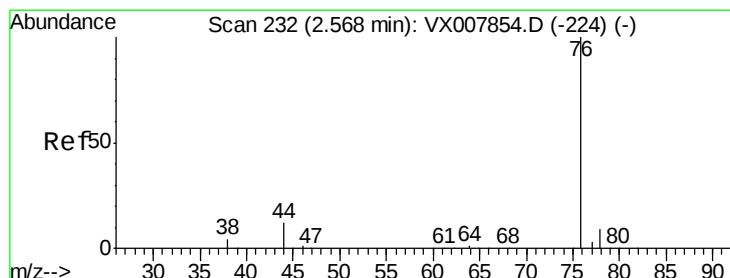
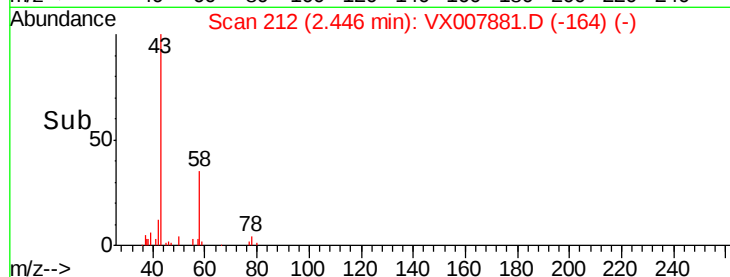
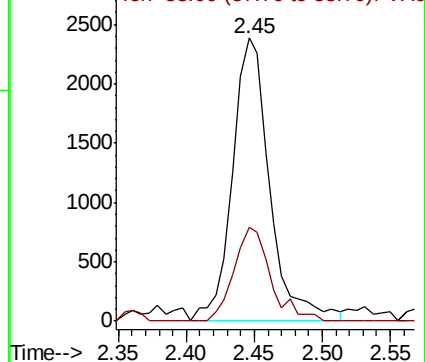
43 100

58 33.3 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007881.D

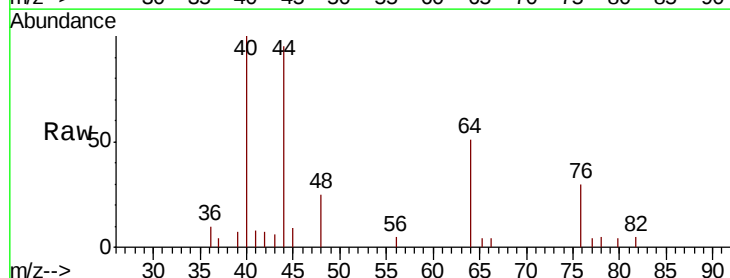
Acq: 07 Mar 2019 14:04

Tgt Ion: 76 Resp: 685

Ion Ratio Lower Upper

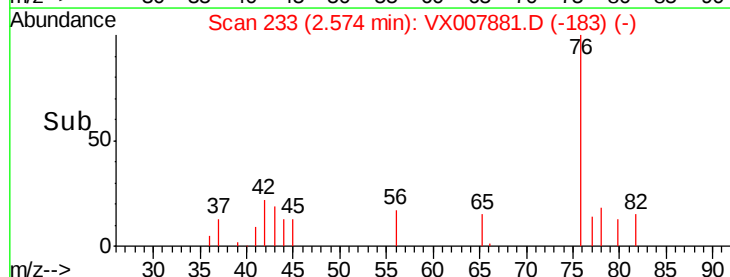
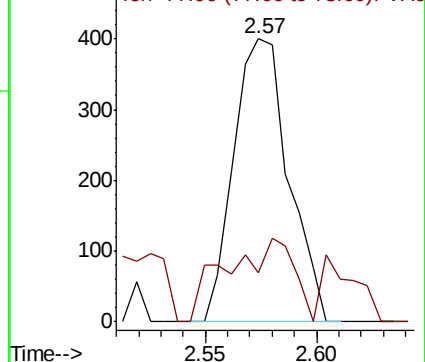
76 100

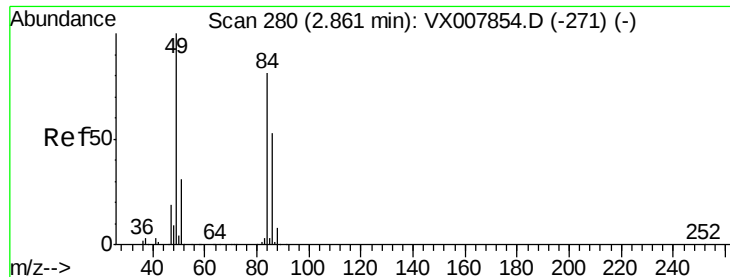
78 17.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

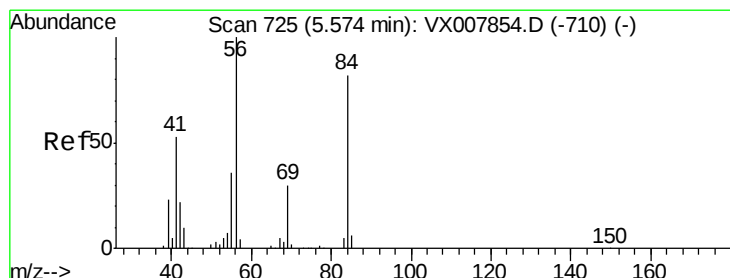
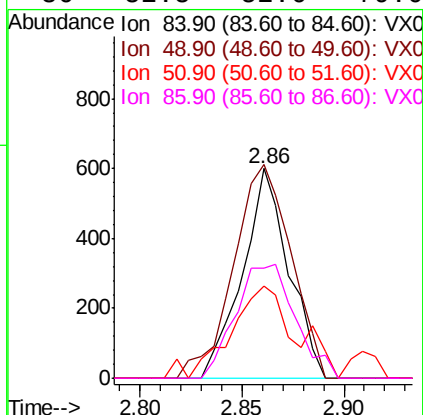
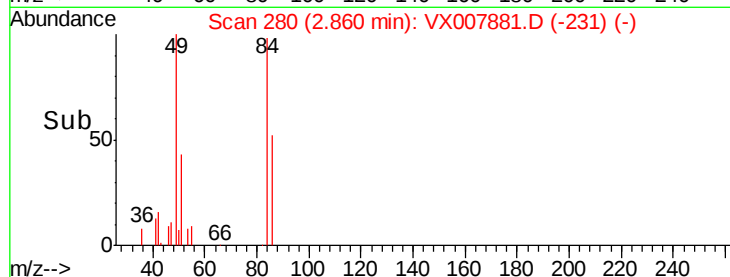
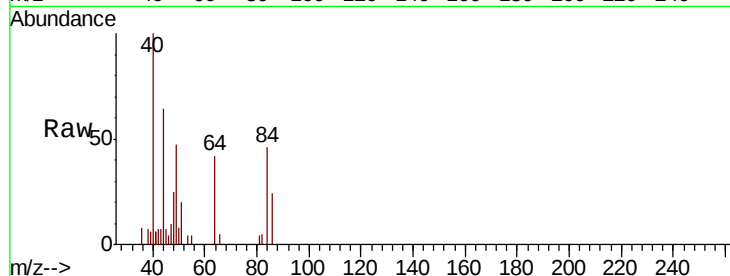




#20  
Methylene Chloride  
Concen: 0.335 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. -0.00 min  
Lab File: VX007881.D  
Acq: 07 Mar 2019 14:04

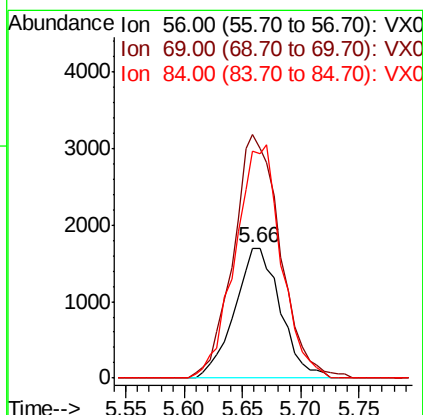
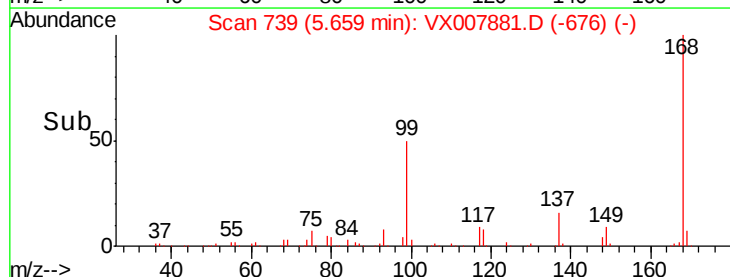
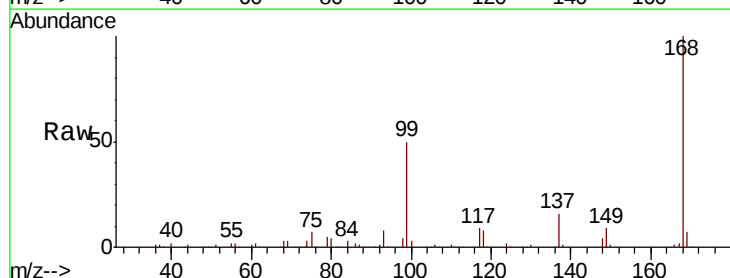
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-2019-03-05

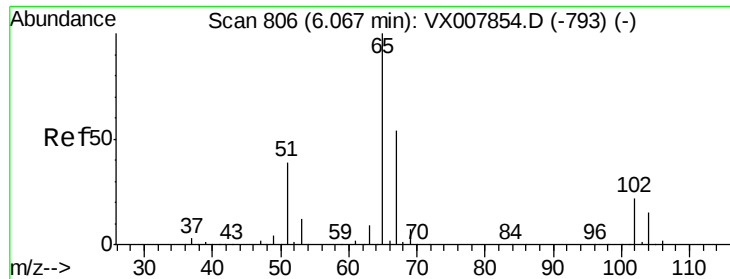
Tgt Ion: 84 Resp: 947  
Ion Ratio Lower Upper  
84 100  
49 101.8 99.3 148.9  
51 43.8 31.3 46.9  
86 52.5 52.6 79.0#



#31  
Cyclohexane  
Concen: 0.985 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.09 min  
Lab File: VX007881.D  
Acq: 07 Mar 2019 14:04

Tgt Ion: 56 Resp: 4652  
Ion Ratio Lower Upper  
56 100  
69 187.3 24.0 36.0#  
84 174.7 65.3 97.9#

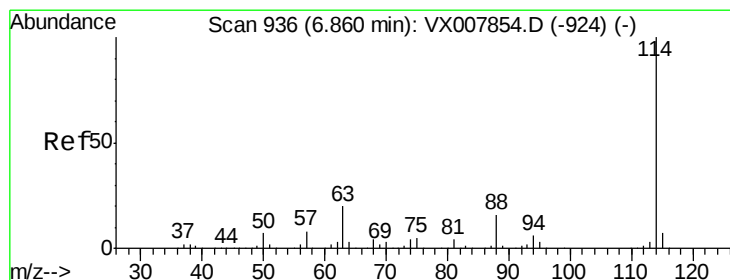
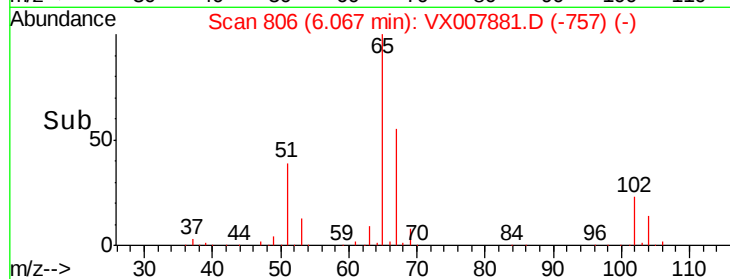
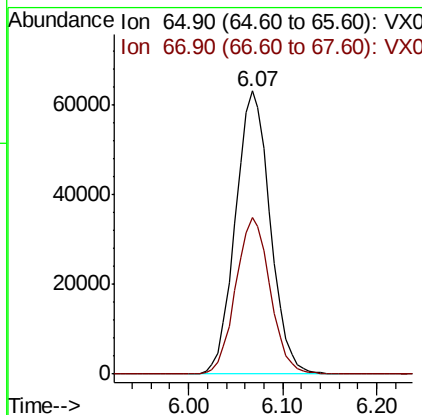
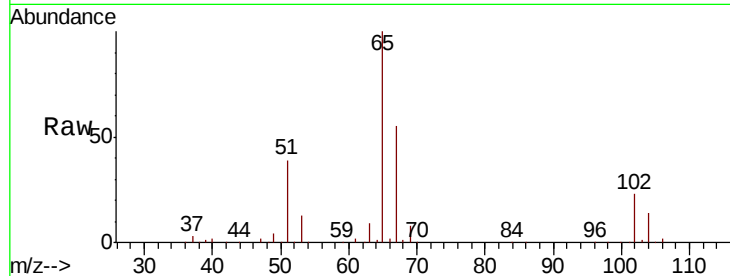




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.854 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX007881.D  
 Acq: 07 Mar 2019 14:04

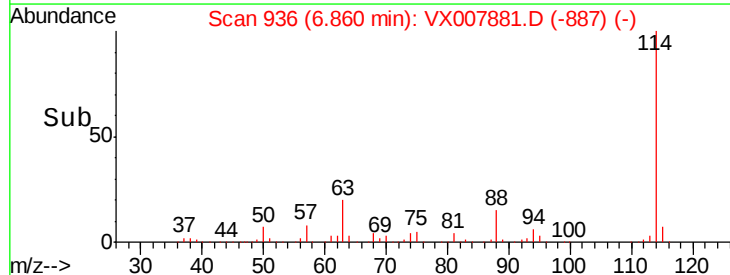
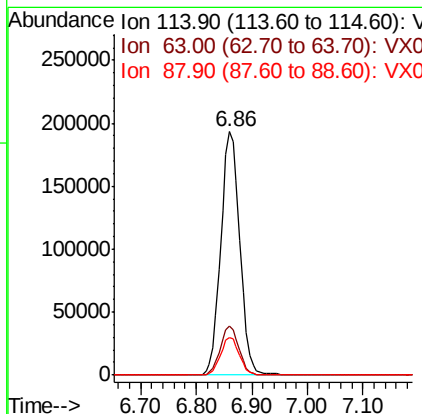
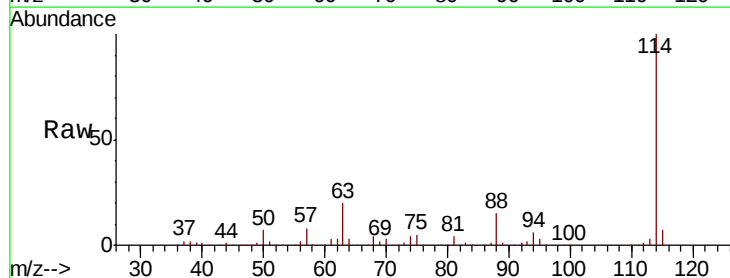
Instrument :  
 MSVOA\_X  
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 FB-2019-03-05

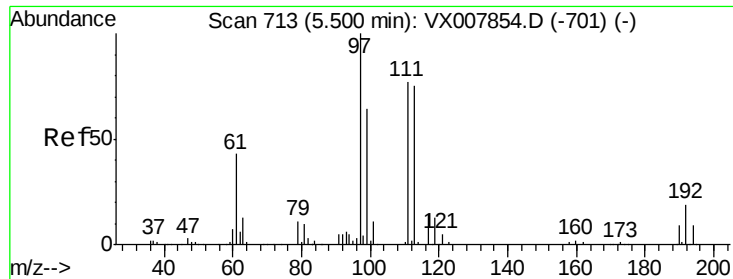
Tgt Ion: 65 Resp: 162434  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 110.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX007881.D  
 Acq: 07 Mar 2019 14:04

Tgt Ion: 114 Resp: 458381  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 39.8  
 88 15.3 0.0 31.4

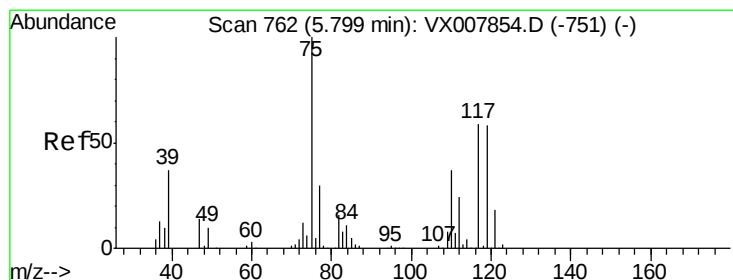
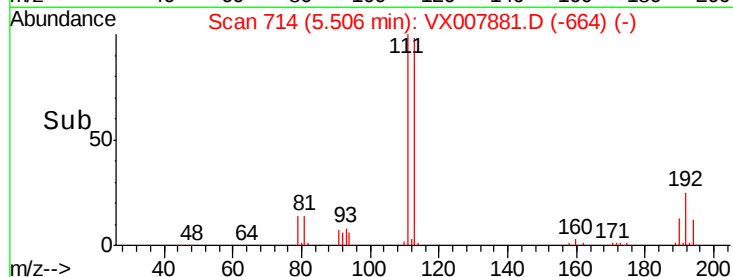
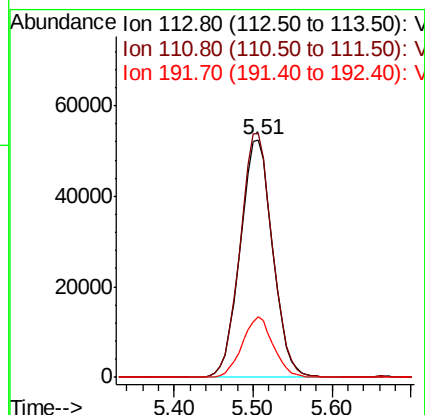
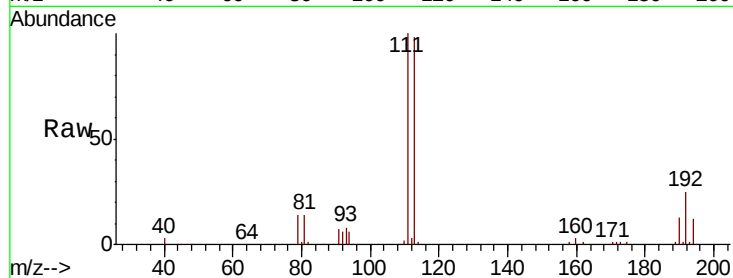




#35  
Dibromofluoromethane  
Concen: 51.281 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX007881.D  
Acq: 07 Mar 2019 14:04

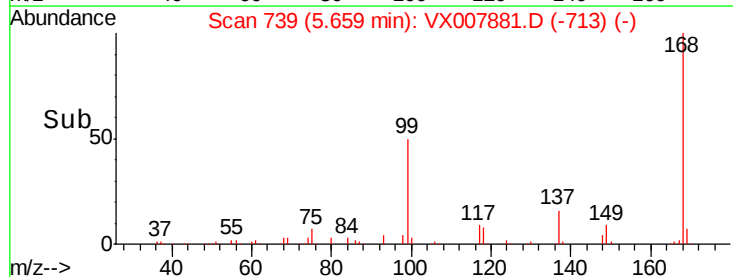
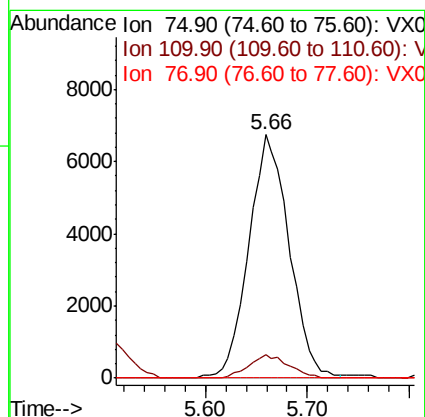
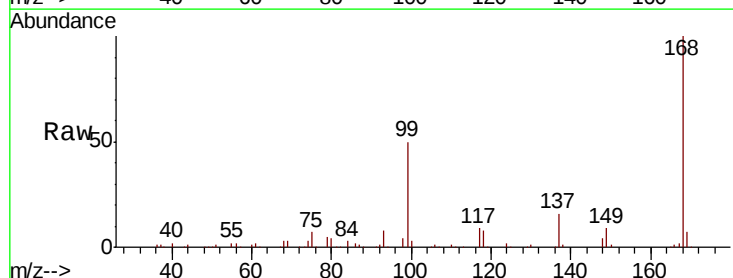
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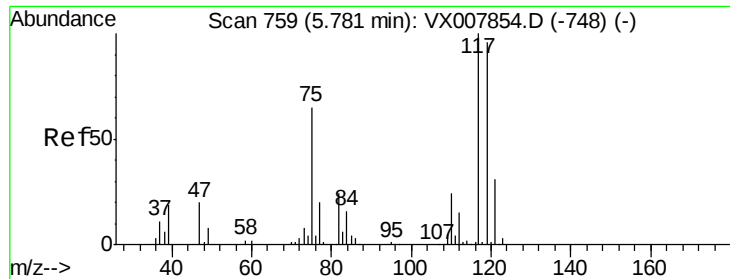
Tgt Ion:113 Resp: 150363  
Ion Ratio Lower Upper  
113 100  
111 101.9 81.4 122.0  
192 24.3 19.4 29.0



#36  
1,1-Dichloropropene  
Concen: 4.475 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.14 min  
Lab File: VX007881.D  
Acq: 07 Mar 2019 14:04

Tgt Ion: 75 Resp: 18575  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.4 55.0#  
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.305 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

FB-2019-03-05

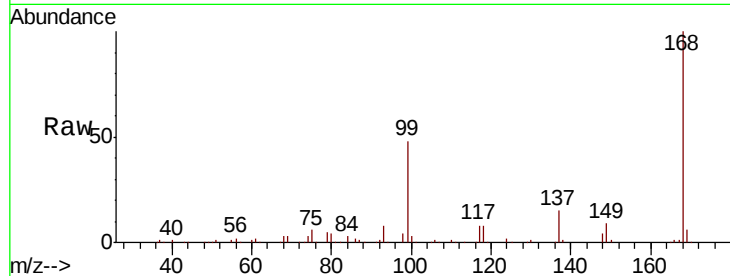
Tgt Ion: 117 Resp: 24843

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

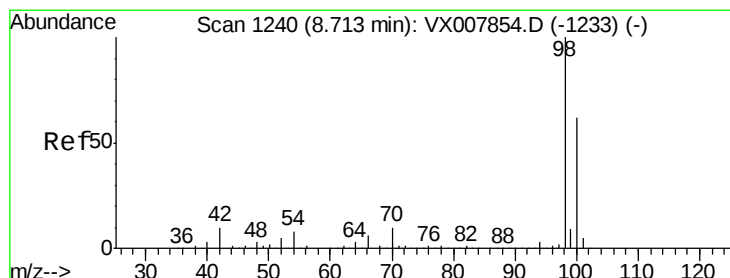
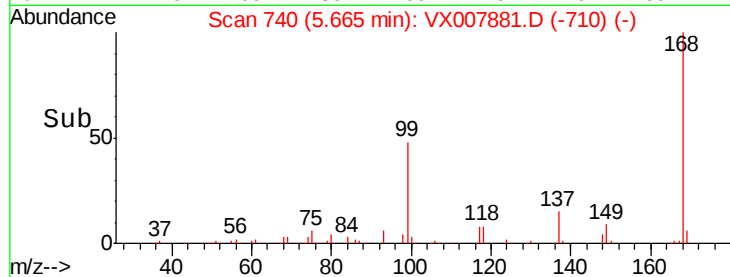
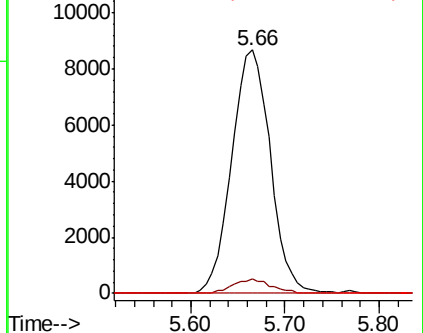
121 0.0 24.6 36.8#



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: 51.847 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007881.D

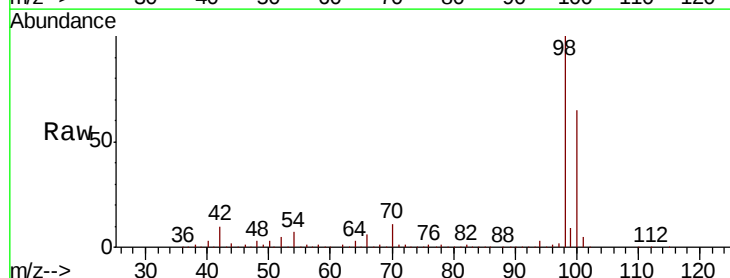
Acq: 07 Mar 2019 14:04

Tgt Ion: 98 Resp: 558305

Ion Ratio Lower Upper

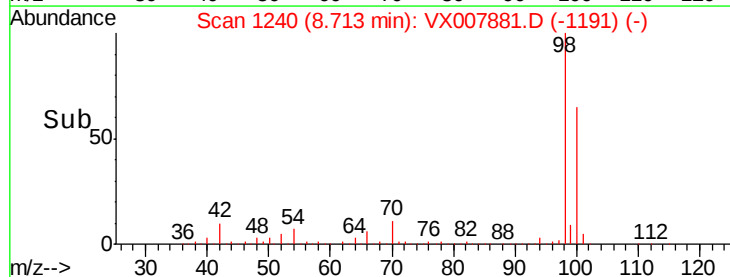
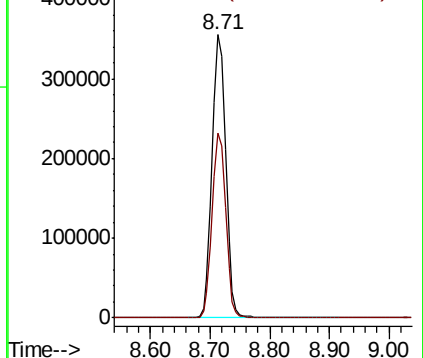
98 100

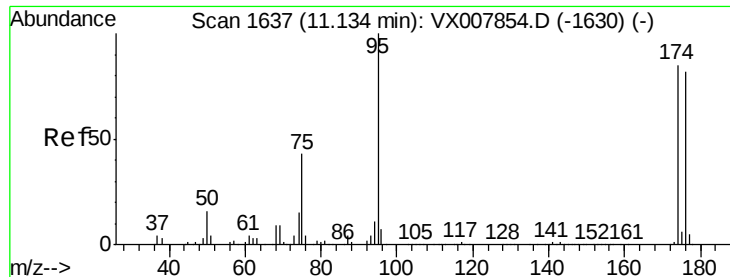
100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.223 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

FB-2019-03-05

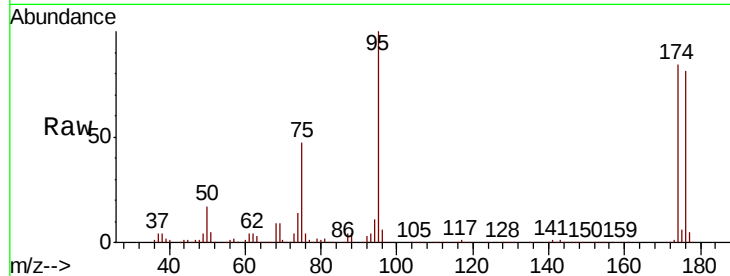
Tgt Ion: 95 Resp: 204715

Ion Ratio Lower Upper

95 100

174 91.9 0.0 182.8

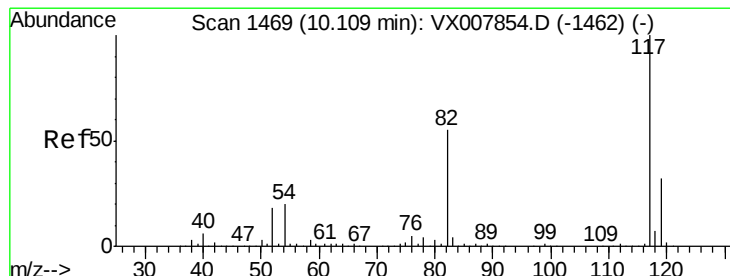
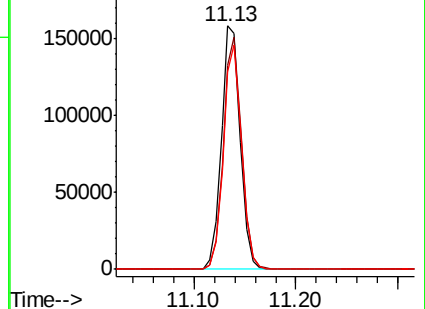
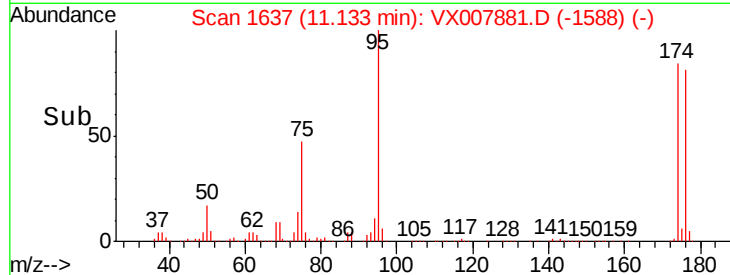
176 88.7 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX007881.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX007881.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX007881.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

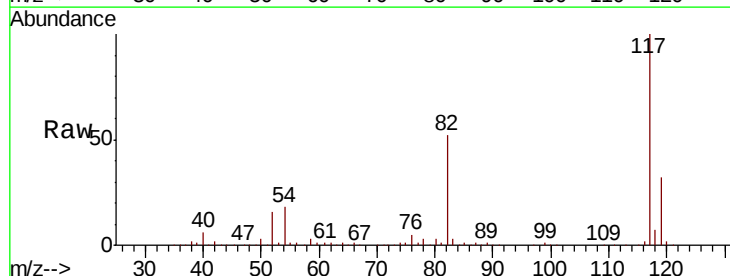
Tgt Ion: 117 Resp: 433781

Ion Ratio Lower Upper

117 100

82 52.2 44.3 66.5

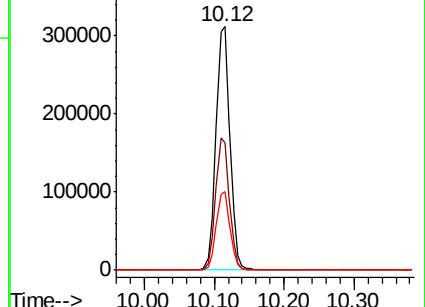
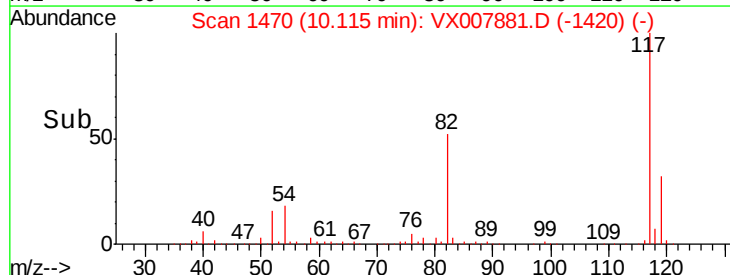
119 32.3 25.3 37.9

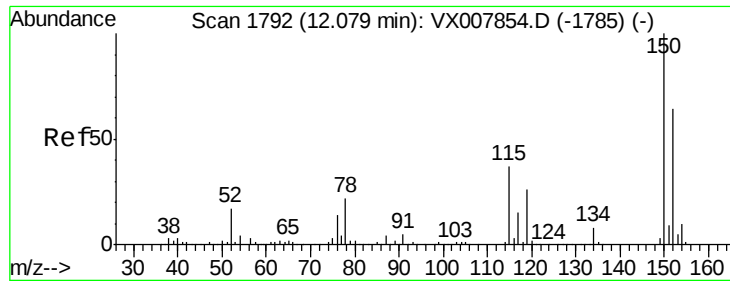


Abundance Ion 116.90 (116.60 to 117.60): VX007881.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX007881.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX007881.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

FB-2019-03-05

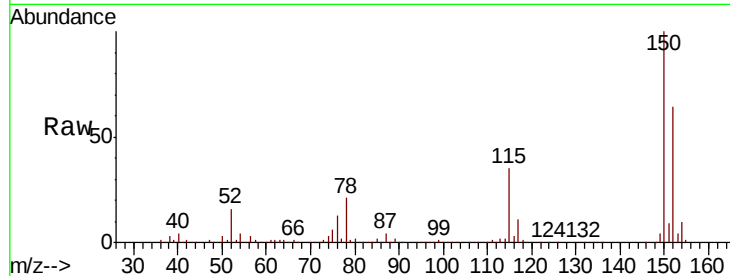
Tgt Ion:152 Resp: 207867

Ion Ratio Lower Upper

152 100

115 55.3 38.6 115.7

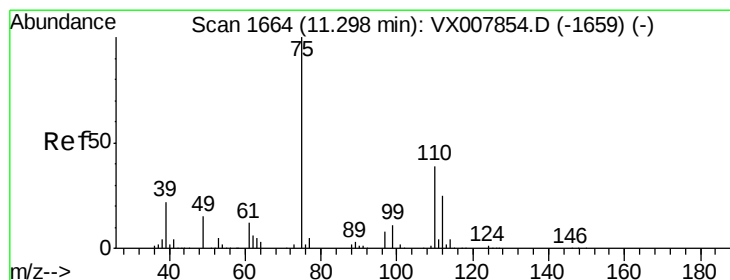
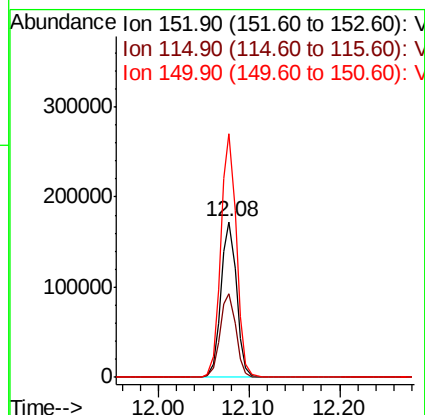
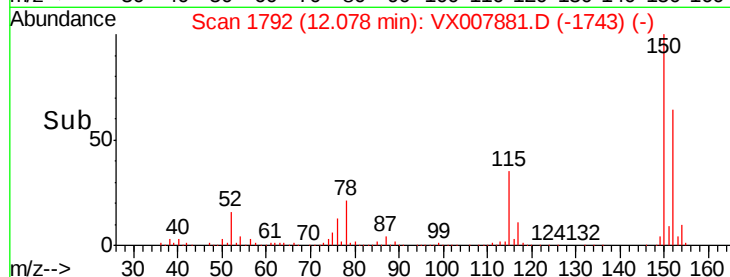
150 156.3 0.0 348.4



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: 21.641 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007881.D

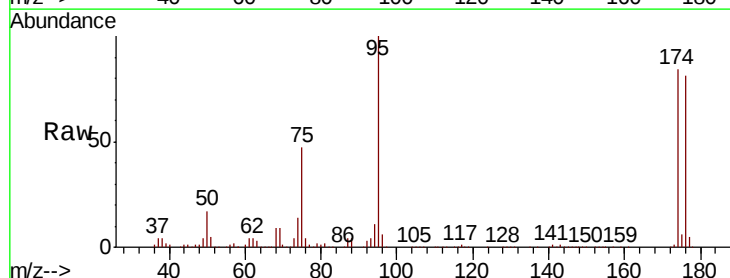
Acq: 07 Mar 2019 14:04

Tgt Ion: 75 Resp: 94396

Ion Ratio Lower Upper

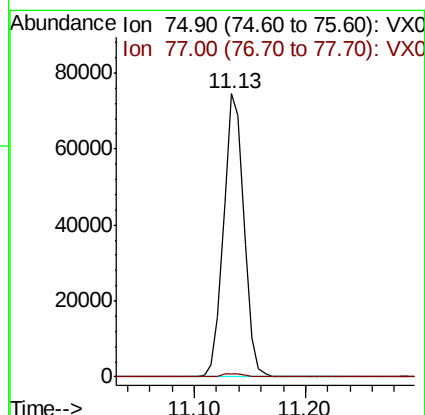
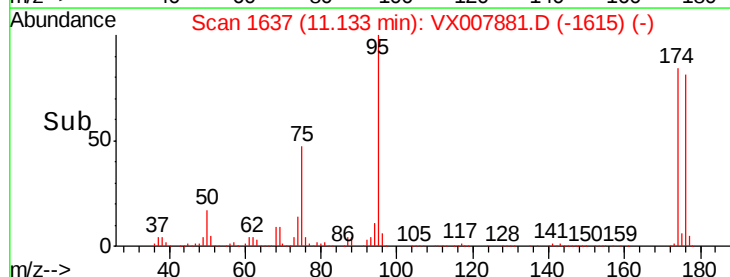
75 100

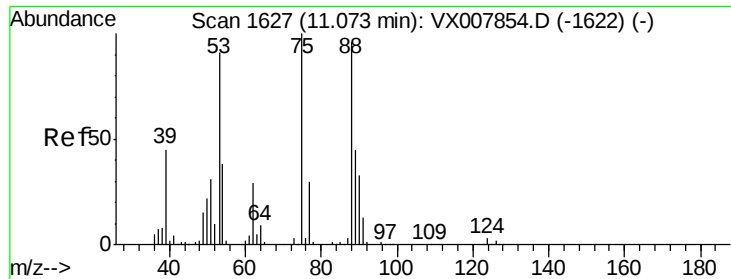
77 1.3 18.9 56.7#



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: 69.175 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007881.D

Acq: 07 Mar 2019 14:04

Instrument :

MSVOA\_X

ClientSampleId :

FB-2019-03-05

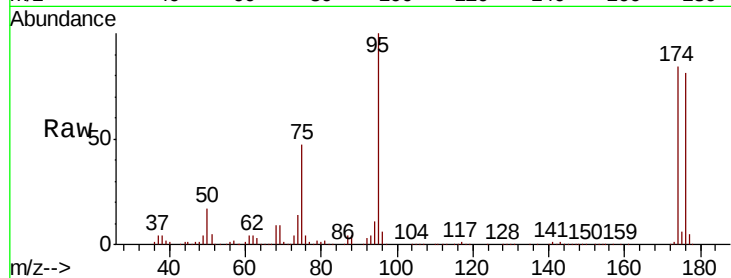
Tgt Ion: 75 Resp: 94396

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#



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

