

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050819\  
 Data File : VX009392.D  
 Acq On : 08 May 2019 12:39  
 Operator : JC/SP  
 Sample : VX0508WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0508WBL01

Quant Time: May 09 06:27:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 03:31:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 185605   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 292920   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 257252   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 109084   | 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   | 119137   | 47.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 89447    | 48.58 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.16% |          |
| 50) Toluene-d8              | 8.71  | 98   | 368735   | 49.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.20% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 121129   | 44.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.68% |          |

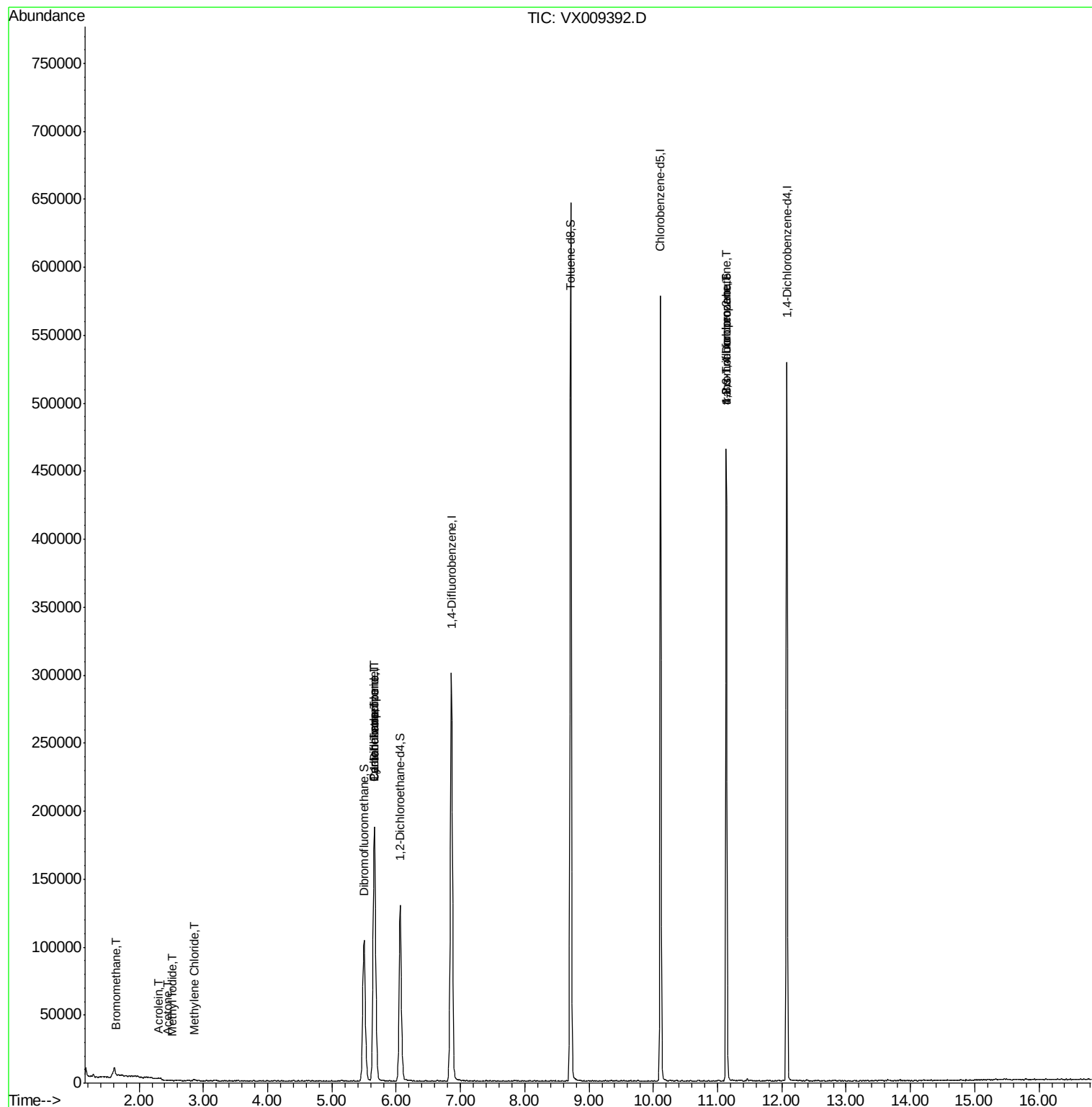
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 755      | 0.552     | ug/l   | 87     |
| 10) Methyl Iodide              | 2.51  | 142  | 297      | 4.727     | ug/l # | 86     |
| 13) Acrolein                   | 2.30  | 56   | 364      | 0.685     | ug/l # | 45     |
| 16) Acetone                    | 2.44  | 43   | 449      | 0.330     | ug/l # | 44     |
| 20) Methylene Chloride         | 2.87  | 84   | 482      | 0.219     | ug/l # | 81     |
| 28) Bromochloromethane         | 5.02  | 49   | 20       | Below Cal | #      | 20     |
| 31) Cyclohexane                | 5.66  | 56   | 3948     | 1.054     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 14057    | 5.164     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17119    | 6.922     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 62377    | 24.651    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 62377    | 63.074    | ug/l # | 10     |

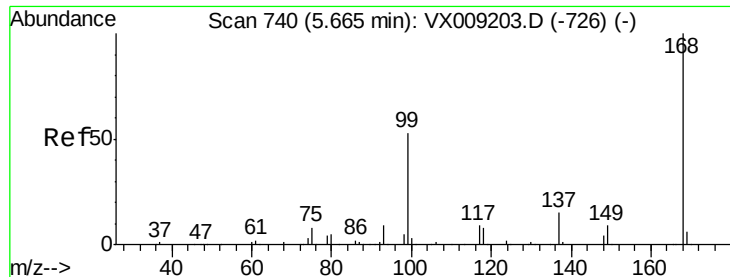
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX050819\  
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Sample : VX0508WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0508WBL01

Quant Time: May 09 06:27:02 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 08 03:31:13 2019  
Response via : Initial Calibration

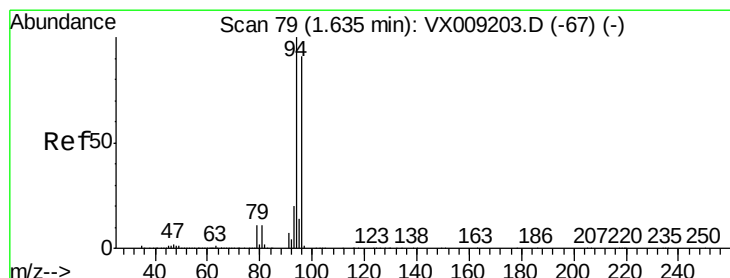
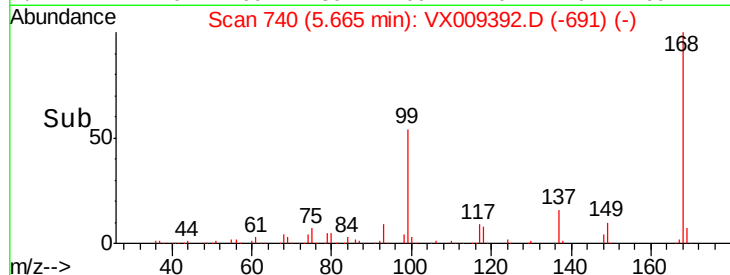
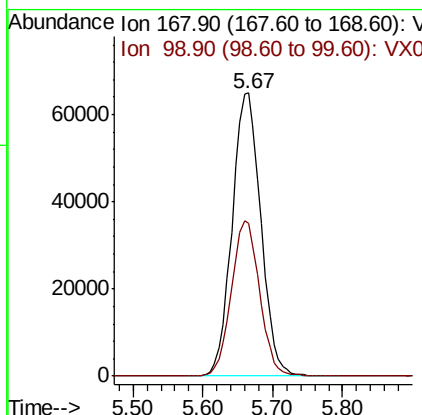
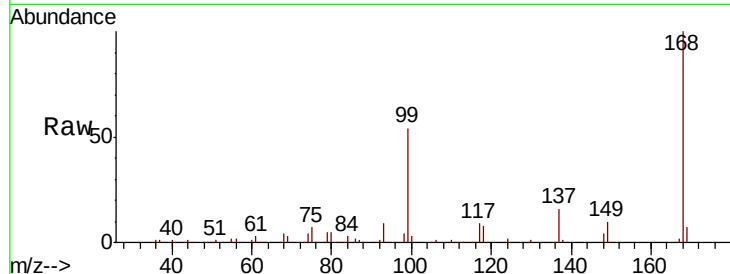




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.00 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

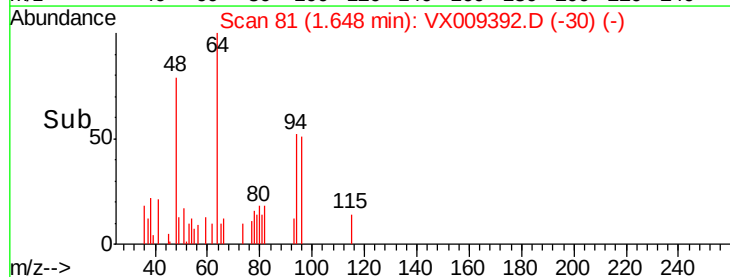
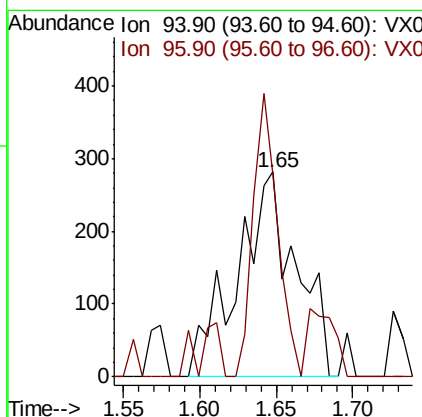
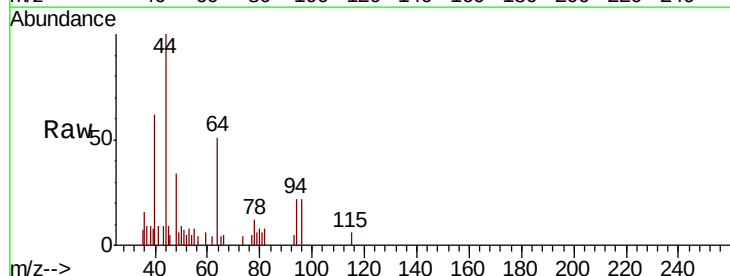
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0508WBL01

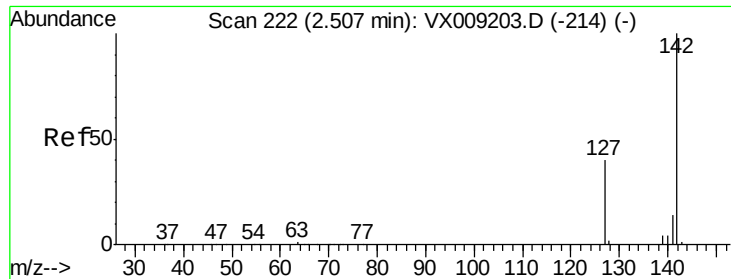
Tot Ion:168 Resp: 185605  
Ion Ratio Lower Upper  
168 100  
99 53.9 42.3 63.5



#5  
Bromomethane  
Concen: 0.552 ug/l  
RT: 1.65 min Scan# 81  
Delta R.T. 0.01 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

Tgt Ion: 94 Resp: 755  
Ion Ratio Lower Upper  
94 100  
96 79.1 73.0 109.6

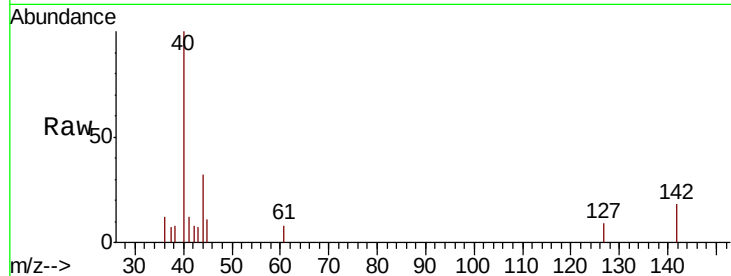




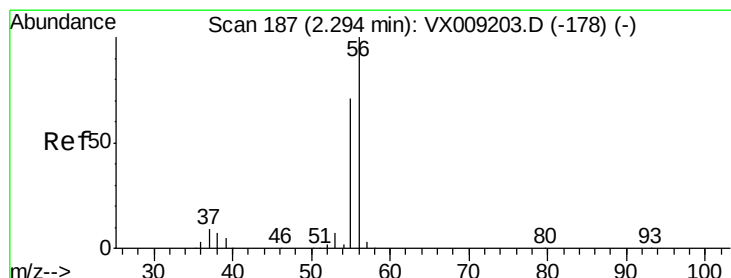
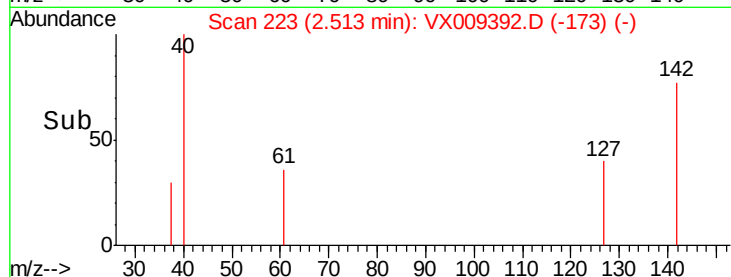
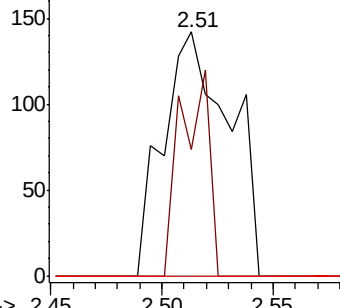
#10  
Methvl Iodide  
Concen: 4.727 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0508WBL01

Tot Ion:142 Resp: 297  
Ion Ratio Lower Upper  
142 100  
127 36.7 32.7 49.1  
141 0.0 11.5 17.3#

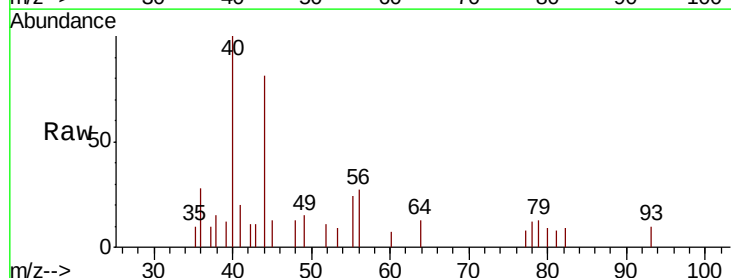


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

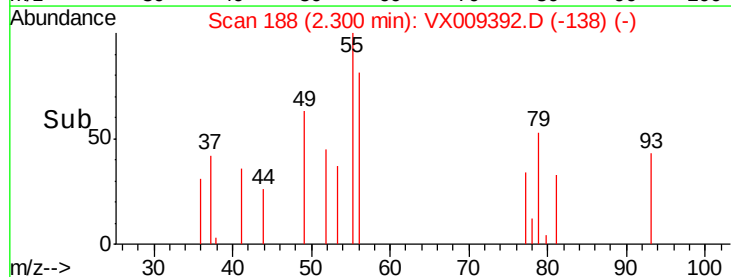
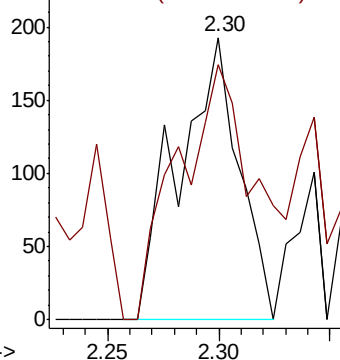


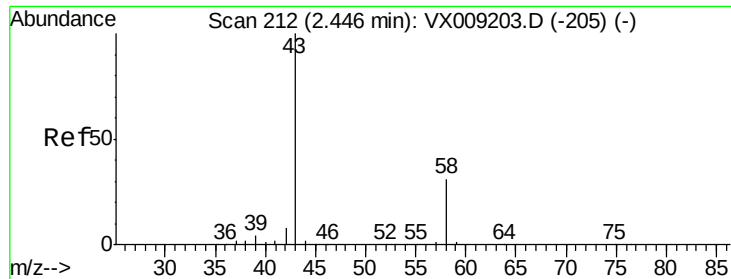
#13  
Acrolein  
Concen: 0.685 ug/l  
RT: 2.30 min Scan# 188  
Delta R.T. 0.01 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

Tgt Ion: 56 Resp: 364  
Ion Ratio Lower Upper  
56 100  
55 115.9 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.330 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

Instrument :

MSVOA\_X

ClientSampled :

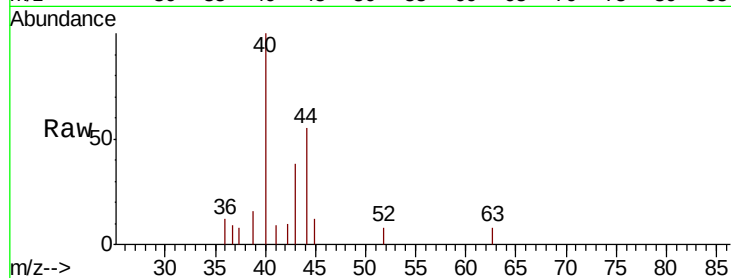
VX0508WBL01

Tot Ion: 43 Resp: 449

Ion Ratio Lower Upper

43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

250

200

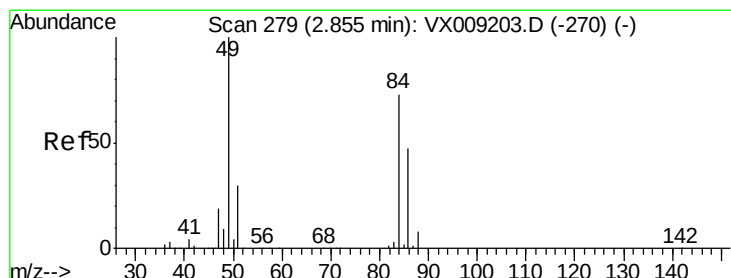
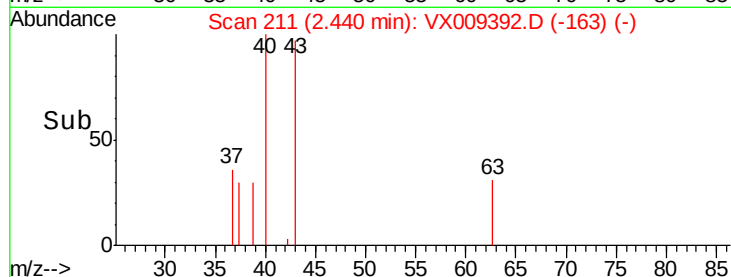
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 0.219 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

Tgt Ion: 84 Resp: 482

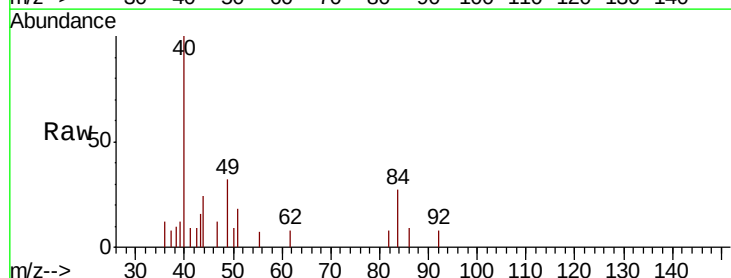
Ion Ratio Lower Upper

84 100

49 120.8 109.9 164.9

51 38.6 32.7 49.1

86 34.3 52.0 78.0#



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

500

400

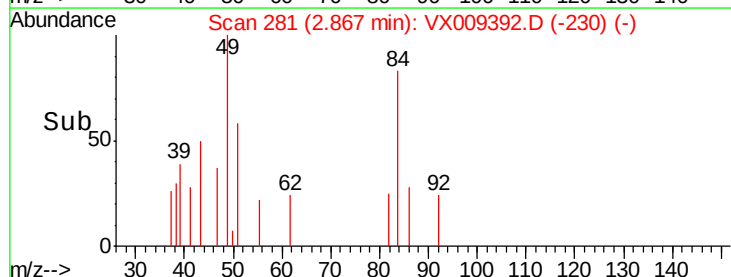
300

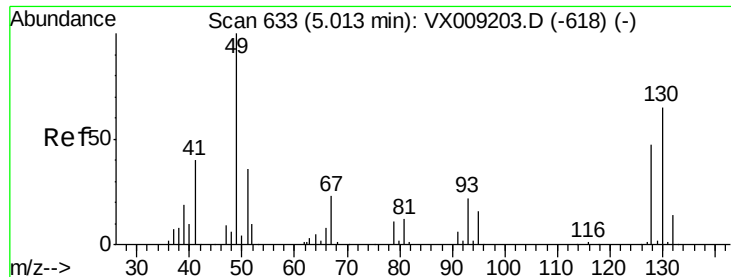
200

100

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

Instrument :

MSVOA\_X

ClientSampleId :

VX0508WBL01

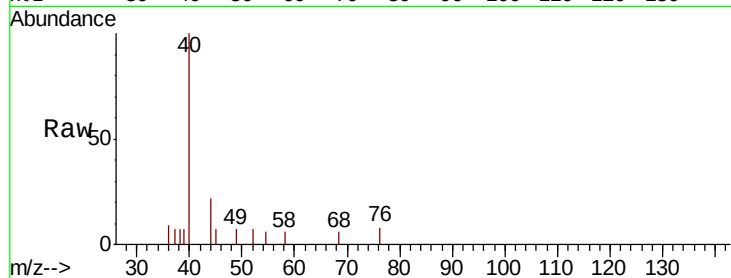
Tot Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



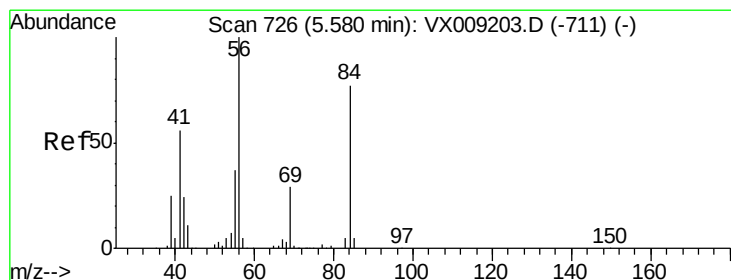
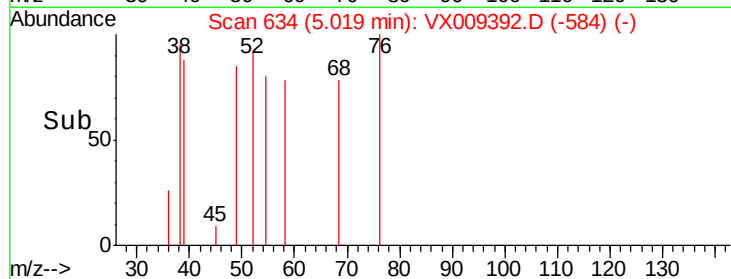
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.02

Time-->



#31

Cyclohexane

Concen: 1.054 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

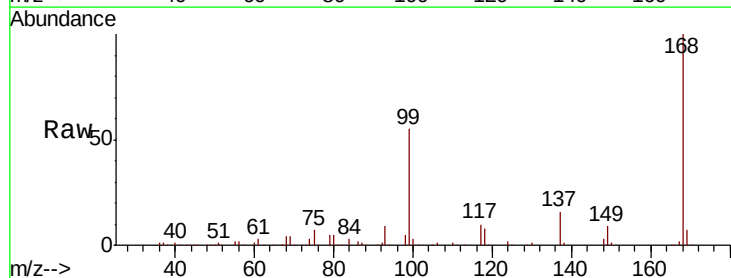
Tgt Ion: 56 Resp: 3948

Ion Ratio Lower Upper

56 100

69 172.0 23.4 35.0#

84 159.0 61.9 92.9#



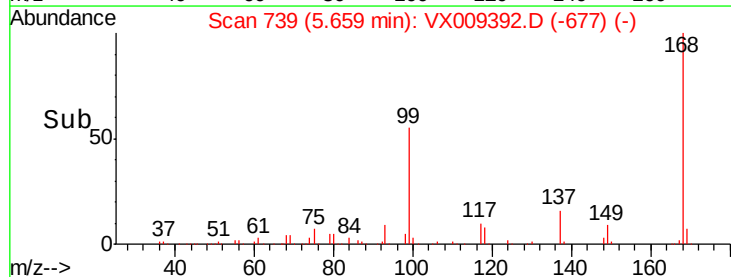
Abundance Ion 56.00 (55.70 to 56.70): VX0

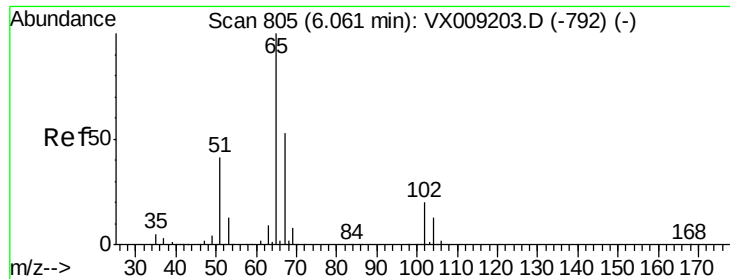
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.66

Time-->

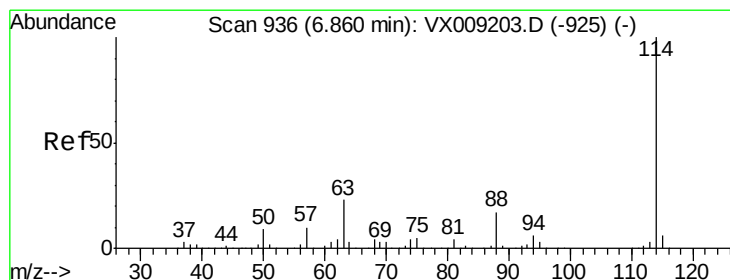
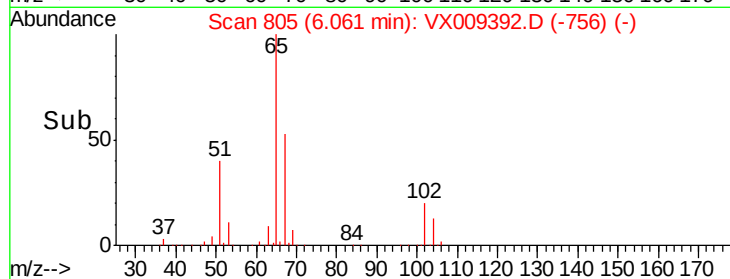
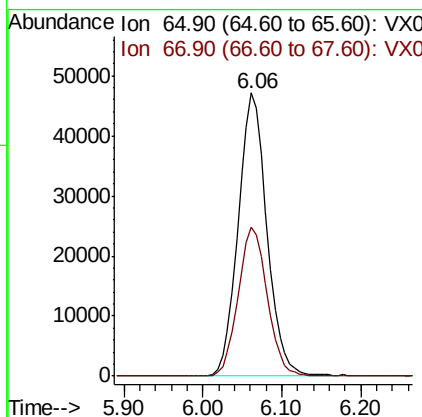
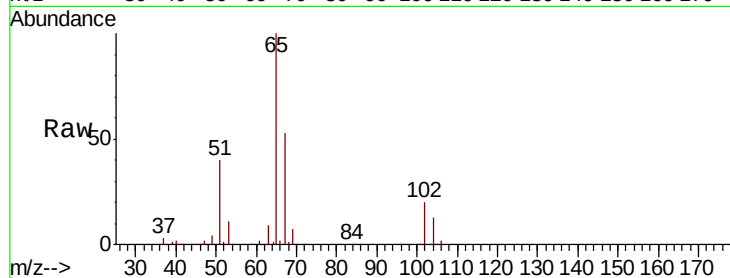




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.020 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX009392.D  
 Acq: 08 May 2019 12:39

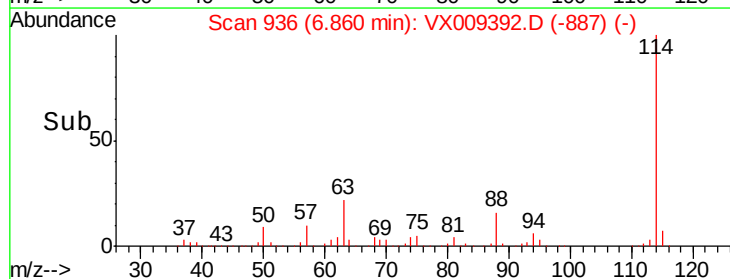
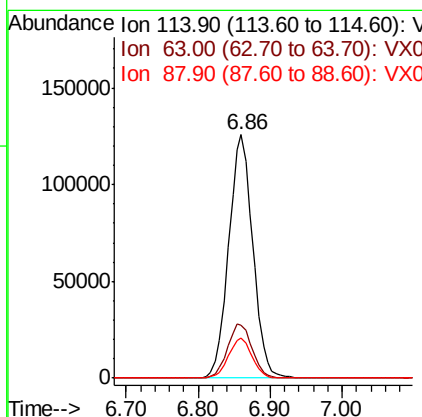
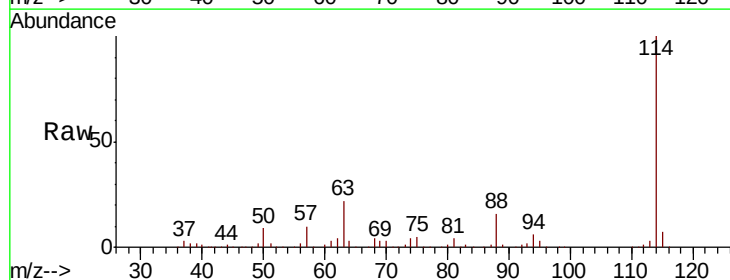
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0508WBL01

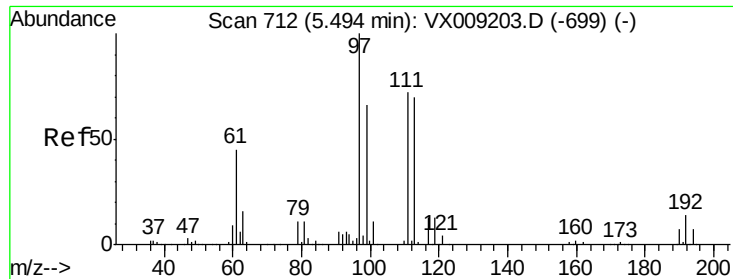
Tot Ion: 65 Resp: 119137  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 106.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009392.D  
 Acq: 08 May 2019 12:39

Tgt Ion: 114 Resp: 292920  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 45.6  
 88 16.5 0.0 33.2

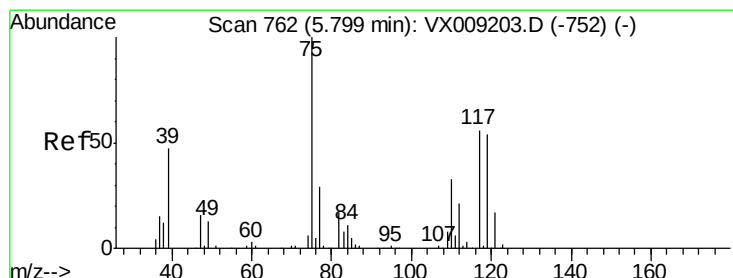
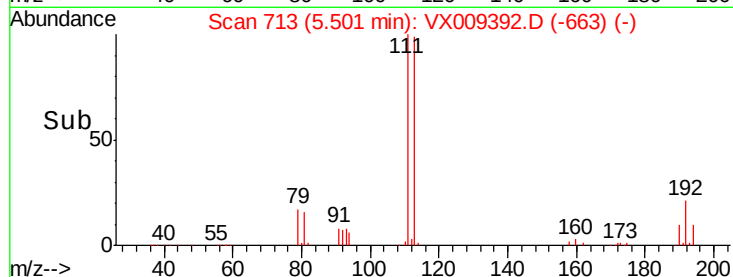
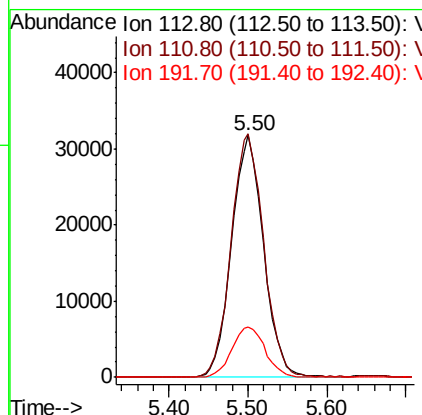
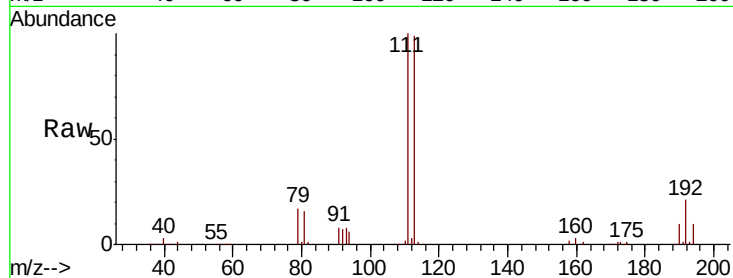




#35  
 Dibromofluoromethane  
 Concen: 48.575 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009392.D  
 Acq: 08 May 2019 12:39

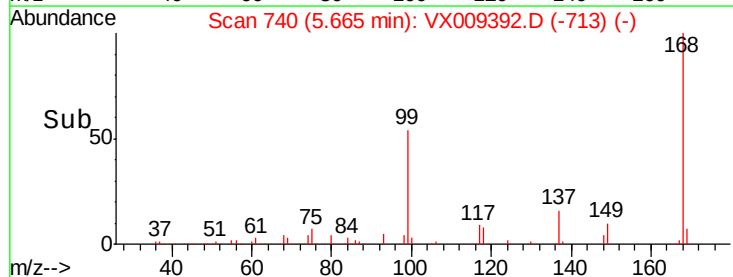
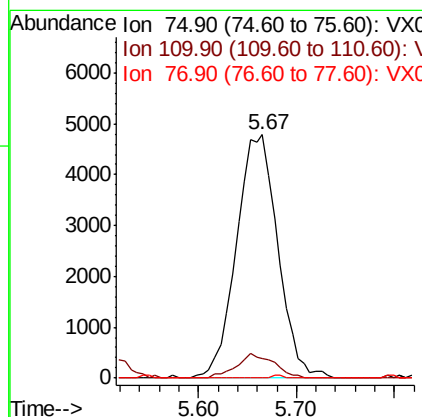
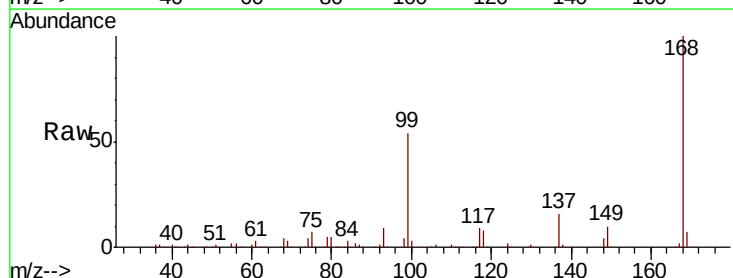
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0508WBL01

Tot Ion:113 Resp: 89447  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 82.8 124.2  
 192 21.6 17.0 25.6

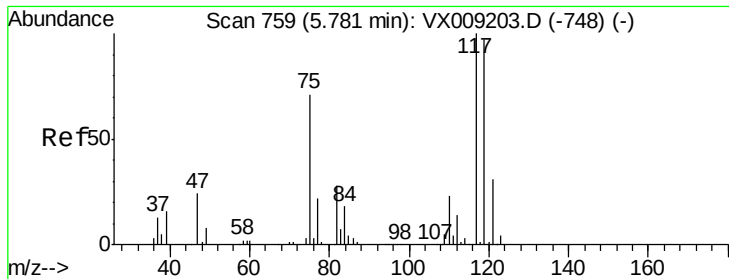


#36  
 1,1-Dichloropropene  
 Concen: 5.164 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX009392.D  
 Acq: 08 May 2019 12:39

Tgt Ion: 75 Resp: 14057  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 16.9 50.6#  
 77 0.0 24.8 37.2#



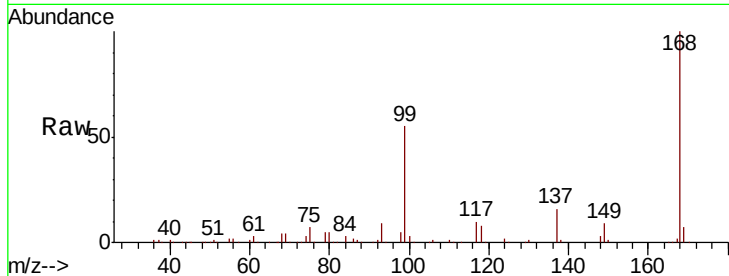




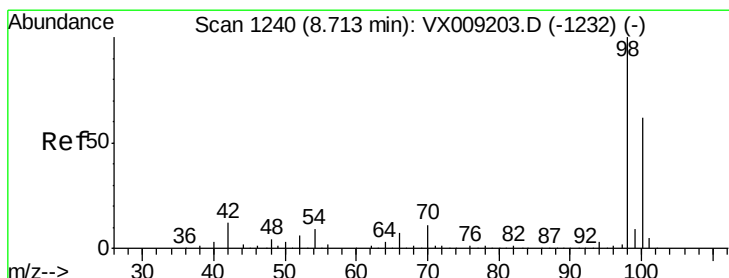
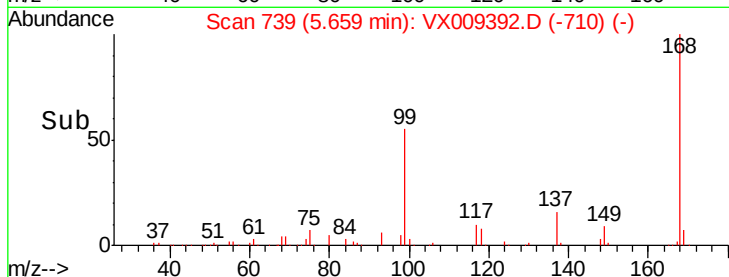
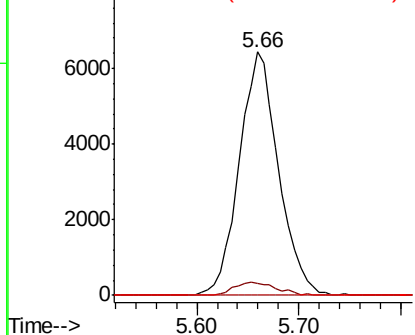
#38  
Carbon Tetrachloride  
Concen: 6.922 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. -0.12 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0508WBL01

Tot Ion:117 Resp: 17119  
Ion Ratio Lower Upper  
117 100  
119 5.0 77.5 116.3#  
121 0.0 24.7 37.1#

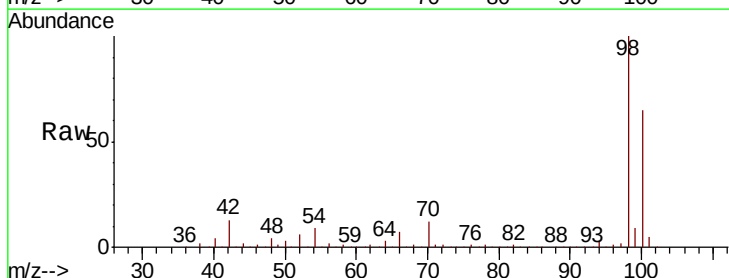


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

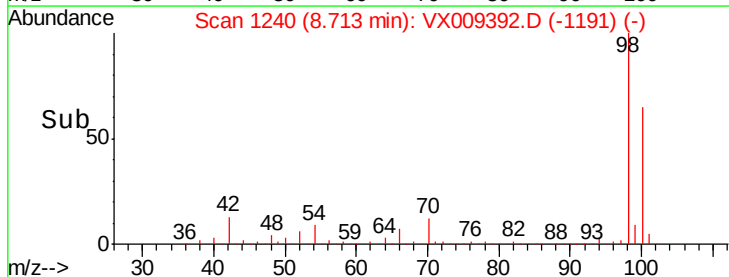
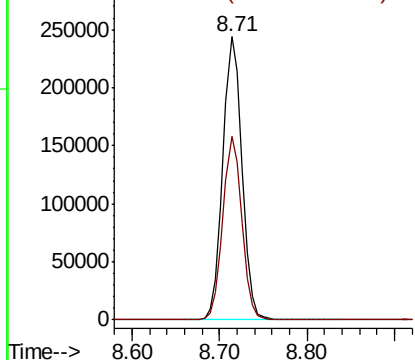


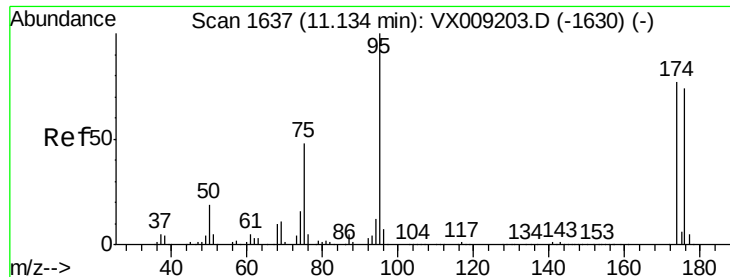
#50  
Toluene-d8  
Concen: 49.600 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX009392.D  
Acq: 08 May 2019 12:39

Tgt Ion: 98 Resp: 368735  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.841 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

Instrument :

MSVOA\_X

ClientSampled :

VX0508WBL01

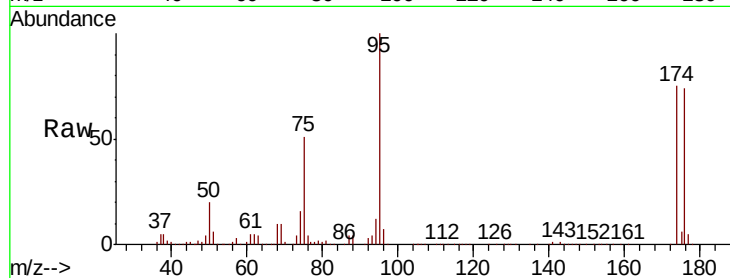
Tot Ion: 95 Resp: 121129

Ion Ratio Lower Upper

95 100

174 82.2 0.0 161.6

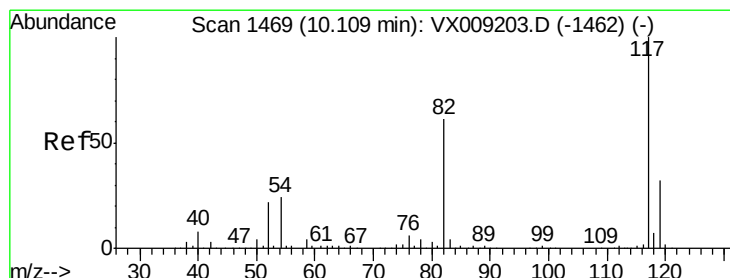
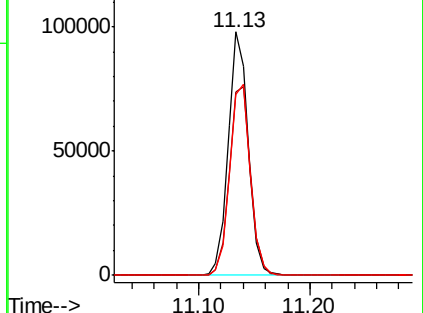
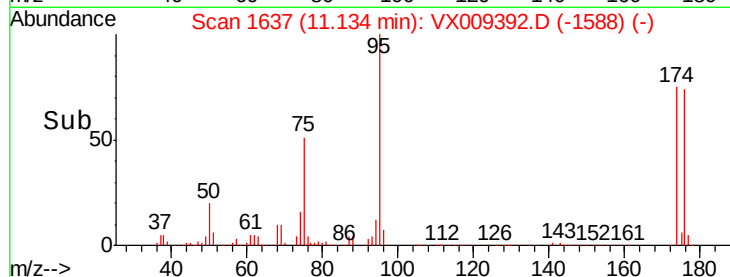
176 81.1 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009392.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009392.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009392.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

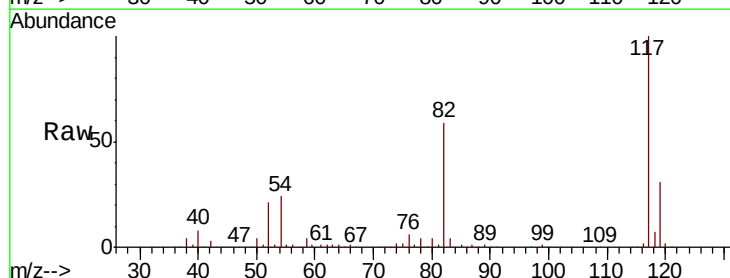
Tgt Ion: 117 Resp: 257252

Ion Ratio Lower Upper

117 100

82 59.0 48.8 73.2

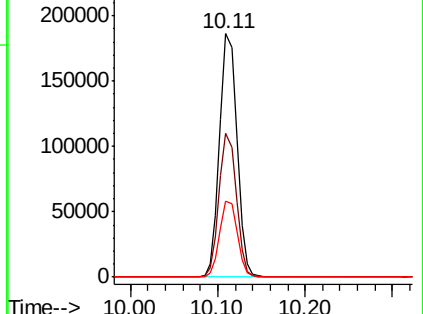
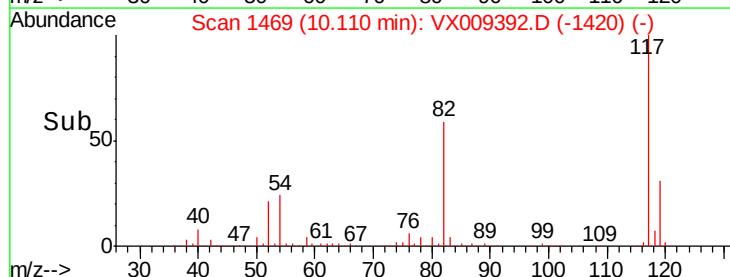
119 31.2 25.8 38.6

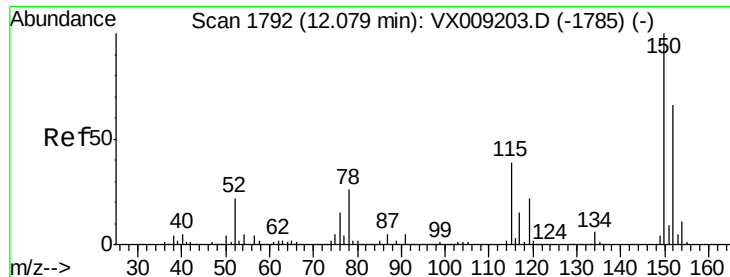


Abundance Ion 116.90 (116.60 to 117.60): VX009392.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009392.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009392.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: VX009392.D

Acq: 08 May 2019 12:39

Instrument :

MSVOA\_X

ClientSampleId :

VX0508WBL01

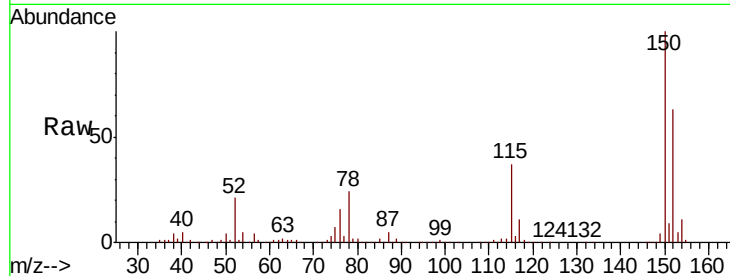
Tot Ion:152 Resp: 109084

Ion Ratio Lower Upper

152 100

115 59.7 41.2 123.6

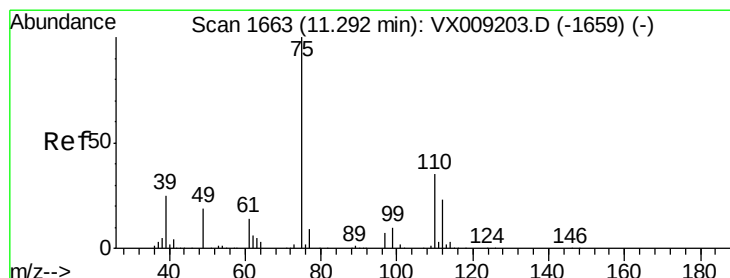
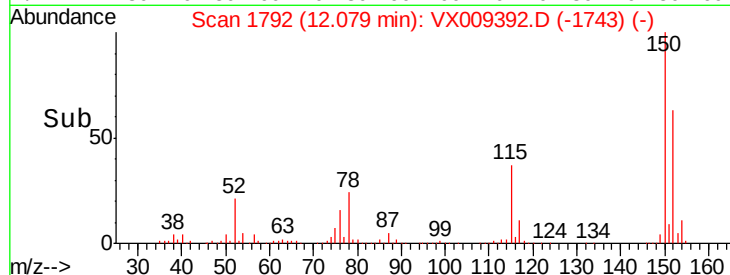
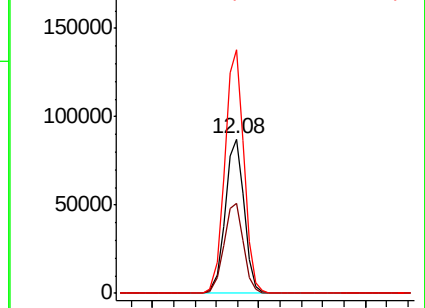
150 158.4 0.0 346.4



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: 24.651 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009392.D

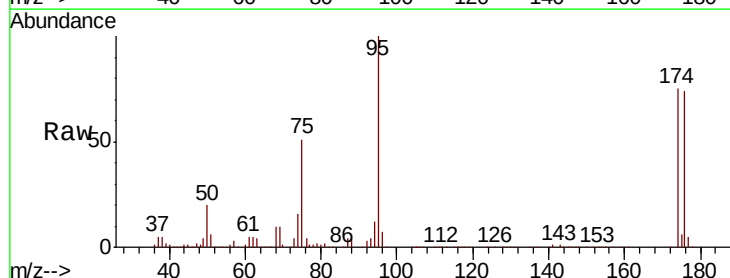
Acq: 08 May 2019 12:39

Tgt Ion: 75 Resp: 62377

Ion Ratio Lower Upper

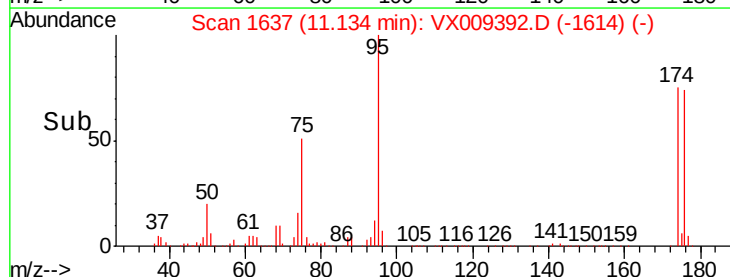
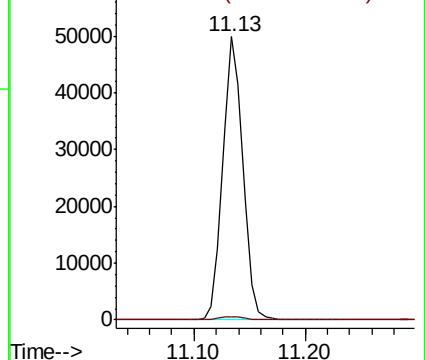
75 100

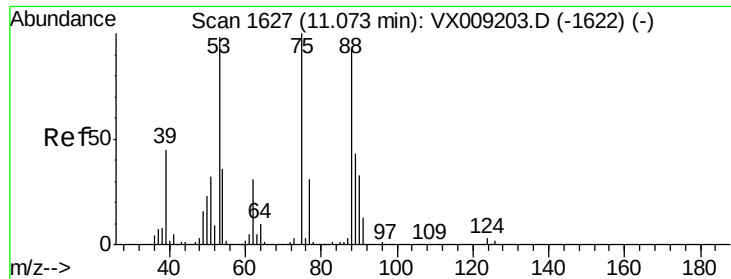
77 1.4 22.1 66.1#



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: 63.074 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009392.D

Acq: 08 May 2019 12:39

Instrument :

MSVOA\_X

ClientSampleId :

VX0508WBL01

Tot Ion: 75 Resp: 62377

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

