

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061720\  
 Data File : VX016823.D  
 Acq On : 17 Jun 2020 17:43  
 Operator : JC/SP  
 Sample : L3042-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OUTFALL001-200616

Quant Time: Jun 18 00:46:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 16 02:02:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 254549   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 403724   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 411037   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 209871   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 142121   | 49.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.28%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 119940   | 48.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.30%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 563136   | 61.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.62% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 201868   | 57.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.92% |          |

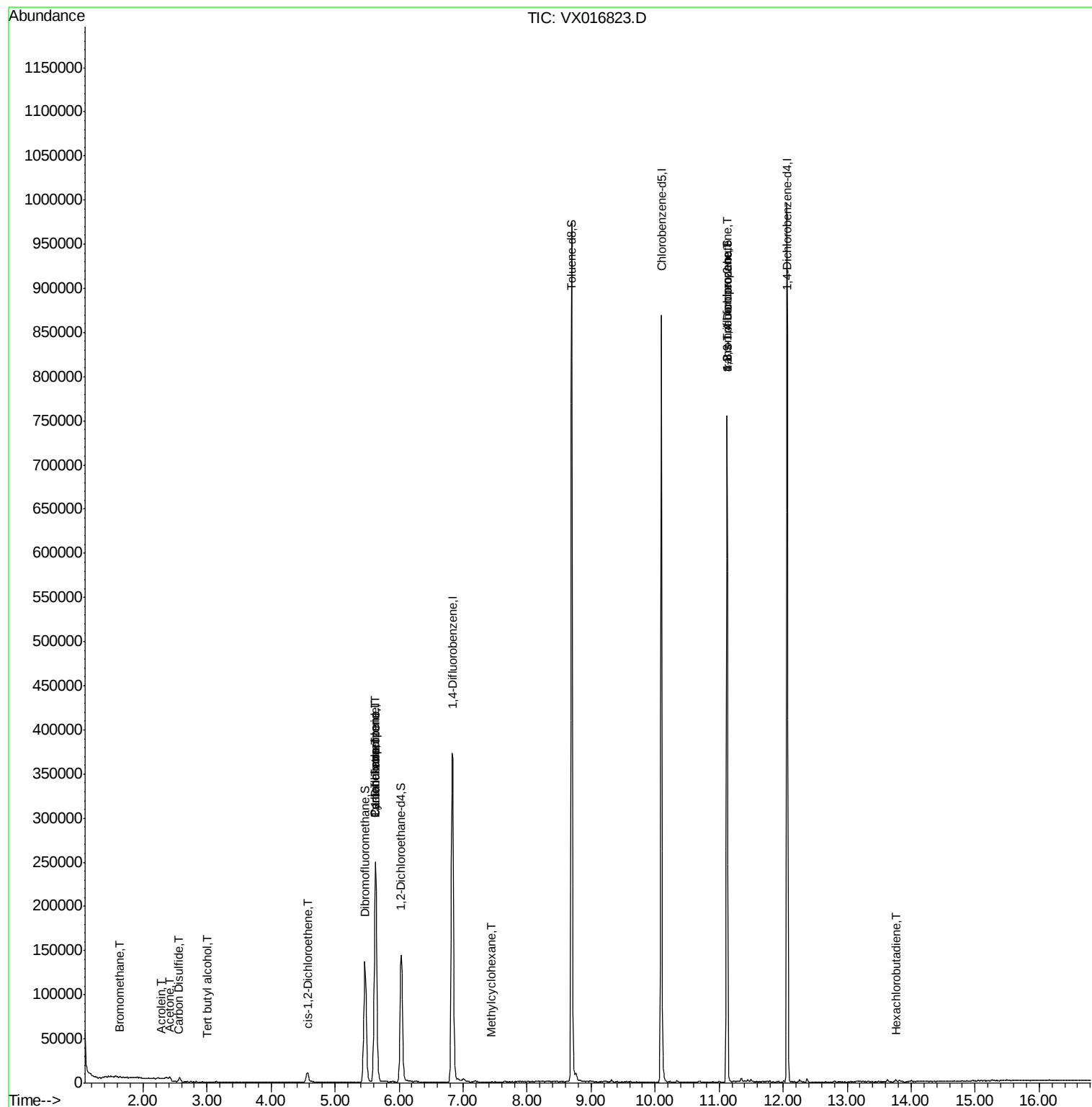
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 450      | 0.244  | ug/l # | 30     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 154      | 0.214  | ug/l # | 51     |
| 13) Acrolein                   | 2.28  | 56   | 276      | 3.199  | ug/l # | 65     |
| 16) Acetone                    | 2.42  | 43   | 2488     | 1.916  | ug/l   | 90     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1642     | 0.230  | ug/l # | 80     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 7386     | 2.417  | ug/l   | 88     |
| 31) Cyclohexane                | 5.64  | 56   | 4287     | 1.843  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 16879    | 4.731  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 23602    | 5.825  | ug/l # | 17     |
| 39) Methylcyclohexane          | 7.44  | 83   | 197      | 1.000  | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 94719    | 21.461 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 94719    | 54.028 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 445      | 0.631  | ug/l   | 91     |

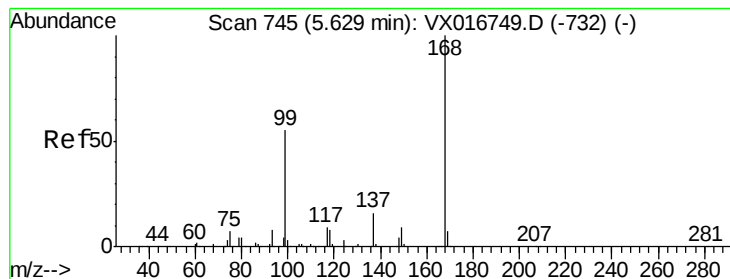
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061720\  
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Sample : L3042-03  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
OUTFALL001-200616

Quant Time: Jun 18 00:46:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 16 02:02:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

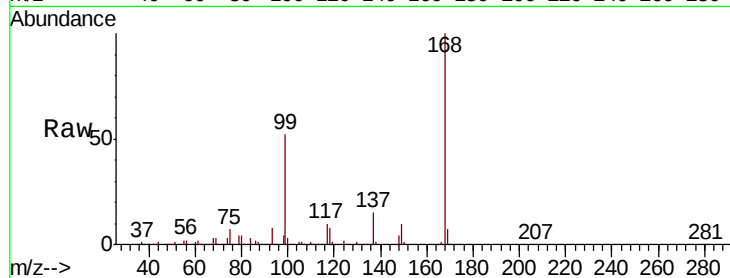
OUTFALL001-200616

Tot Ion:168 Resp: 254549

Ion Ratio Lower Upper

168 100

99 52.3 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

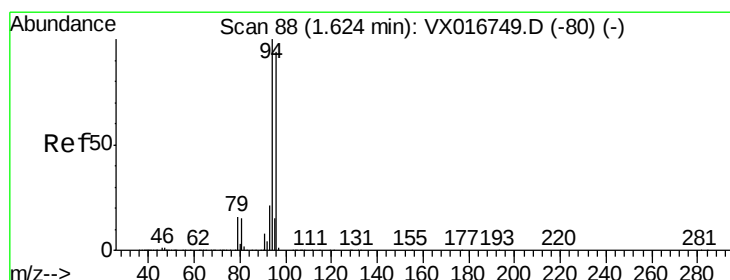
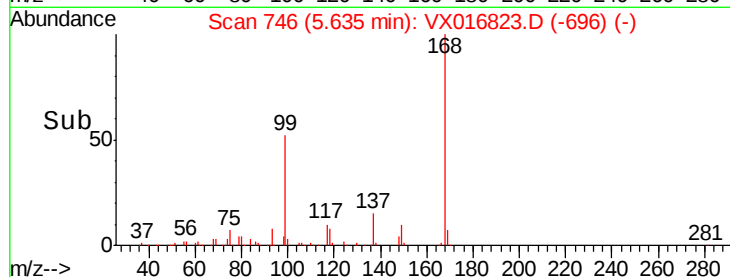
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016823.D

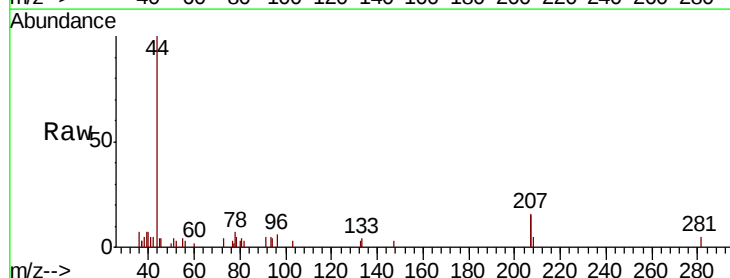
Acq: 17 Jun 2020 17:43

Tgt Ion: 94 Resp: 450

Ion Ratio Lower Upper

94 100

96 26.4 75.4 113.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

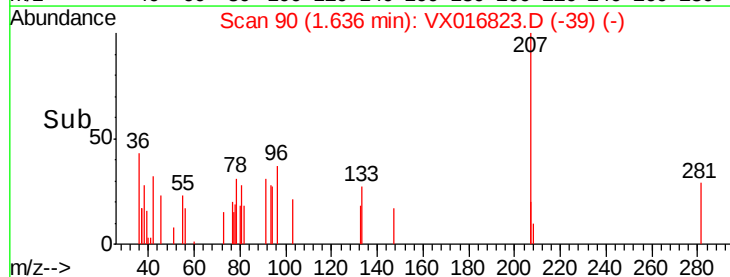
300

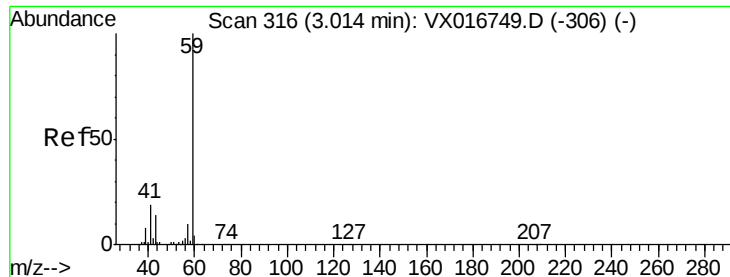
200

100

0

Time-->

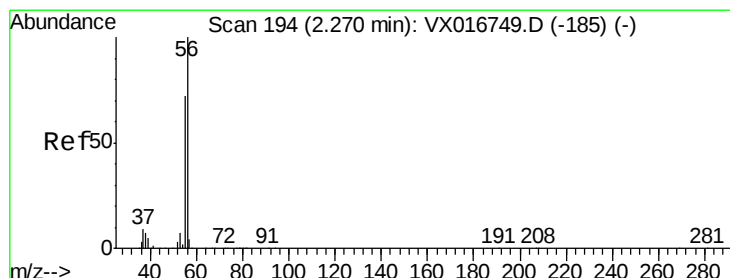
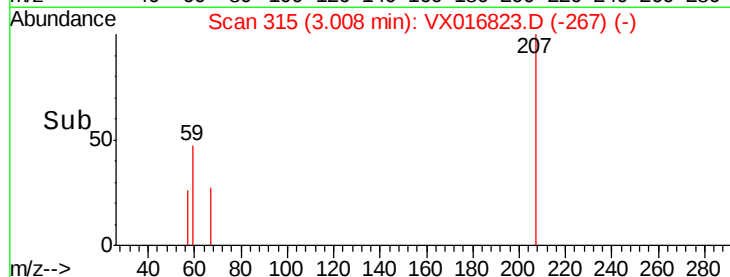
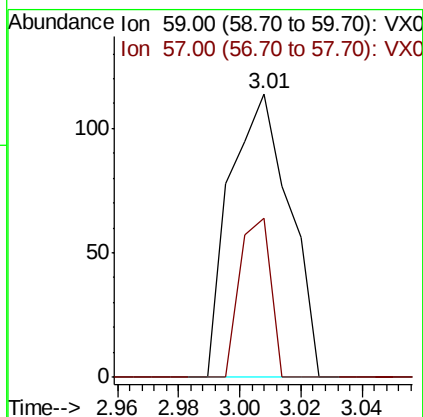
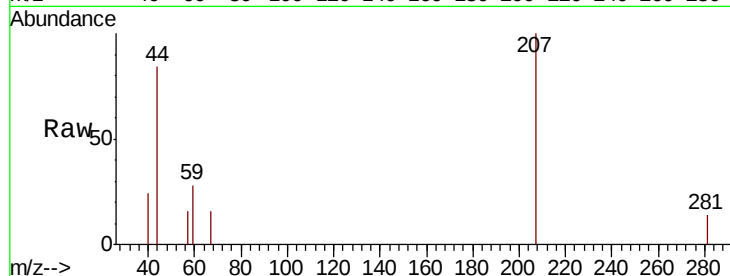




#11  
Tert butyl alcohol  
Concen: 0.214 ug/l  
RT: 3.01 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

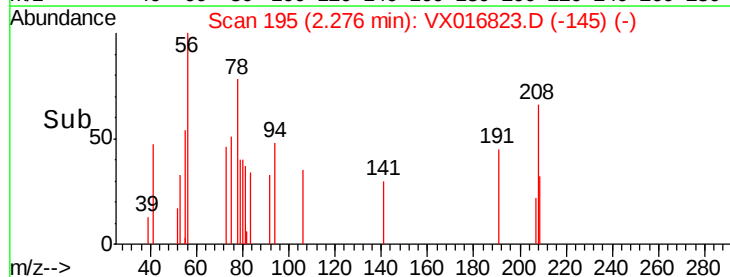
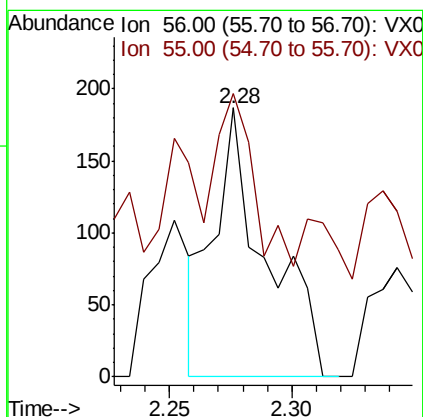
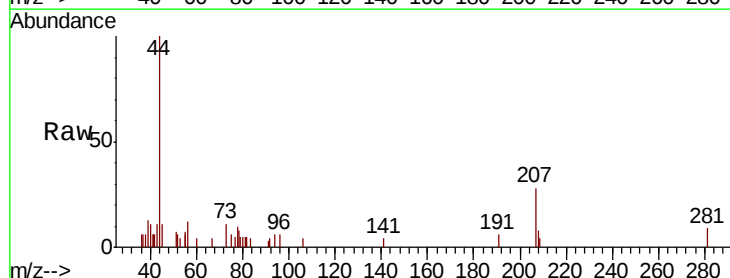
Instrument :  
MSVOA\_X  
ClientSampleId :  
OUTFALL001-200616

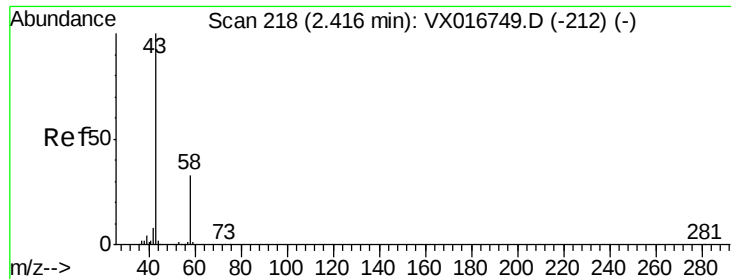
Tot Ion: 59 Resp: 154  
Ion Ratio Lower Upper  
59 100  
57 28.6 8.2 12.2#



#13  
Acrolein  
Concen: 3.199 ug/l  
RT: 2.28 min Scan# 195  
Delta R.T. 0.01 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

Tgt Ion: 56 Resp: 276  
Ion Ratio Lower Upper  
56 100  
55 43.8 58.2 87.4#





#16

Acetone

Concen: 1.916 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

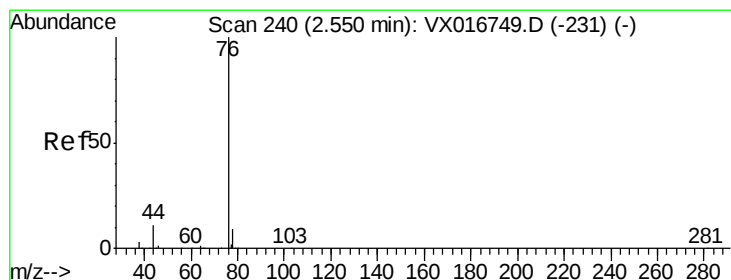
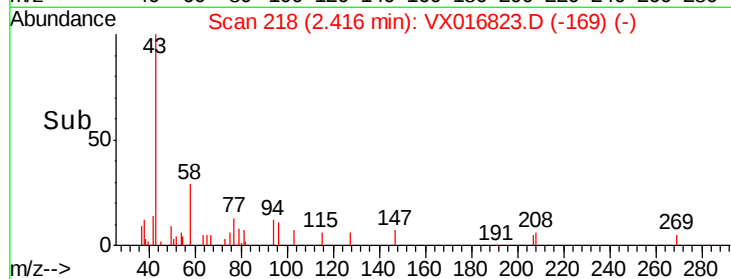
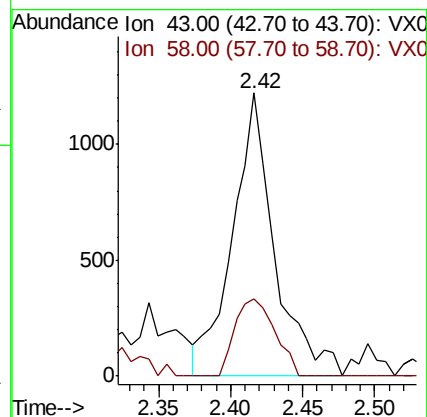
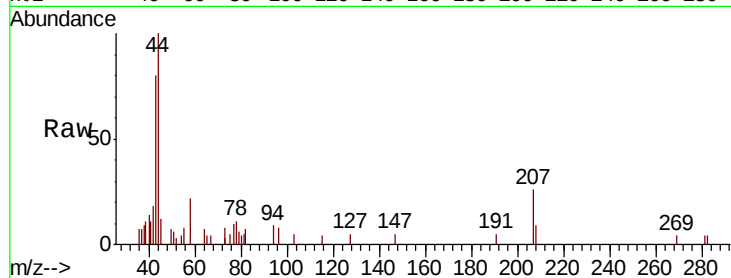
OUTFALL001-200616

Tot Ion: 43 Resp: 2488

Ion Ratio Lower Upper

43 100

58 27.3 26.3 39.5



#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016823.D

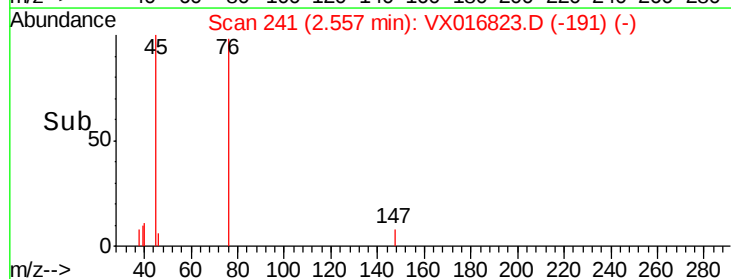
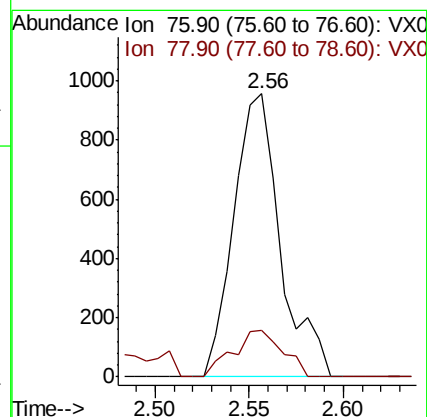
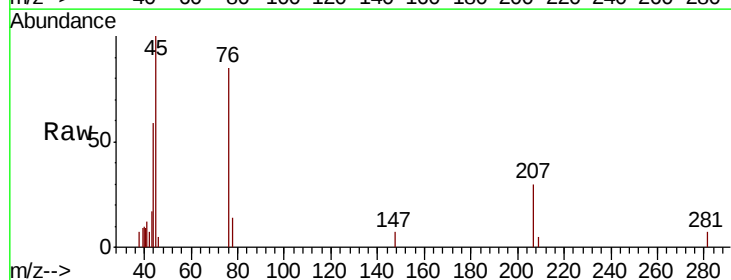
Acq: 17 Jun 2020 17:43

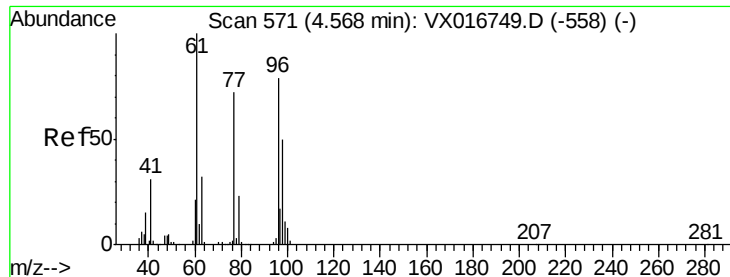
Tgt Ion: 76 Resp: 1642

Ion Ratio Lower Upper

76 100

78 16.3 7.3 10.9#



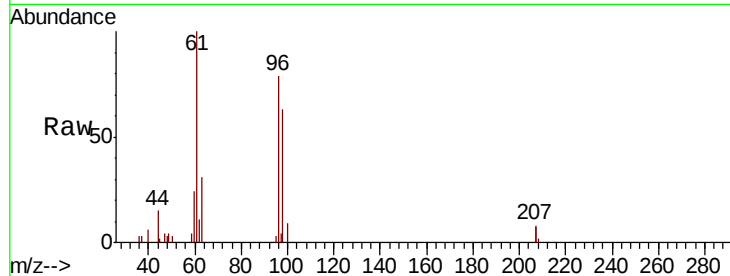


#27

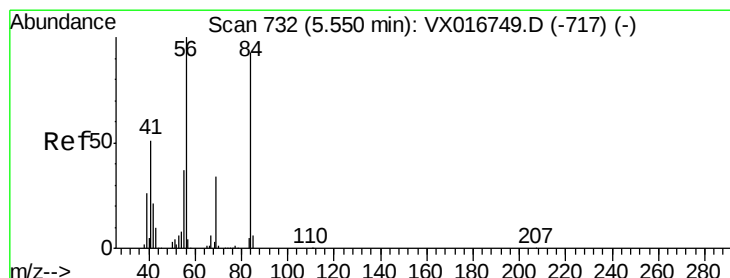
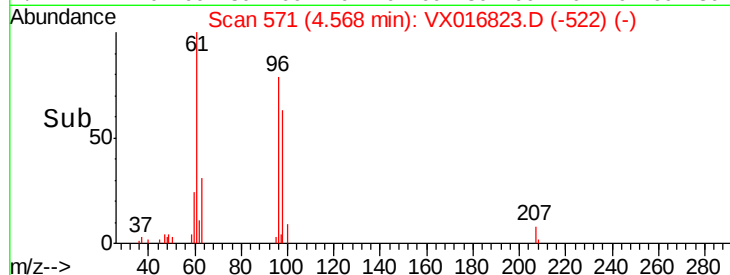
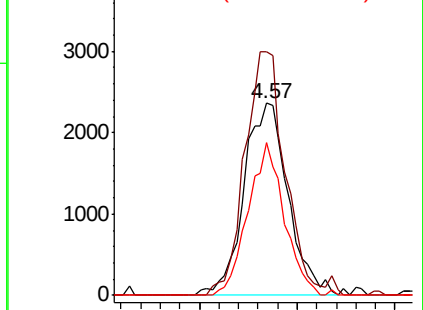
cis-1,2-Dichloroethene  
Concen: 2.417 ug/l  
RT: 4.57 min Scan# 571  
Delta R.T. 0.00 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
OUTFALL001-200616

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 116.2 | 0.0   | 276.2 |
| 98      | 65.4  | 0.0   | 130.0 |



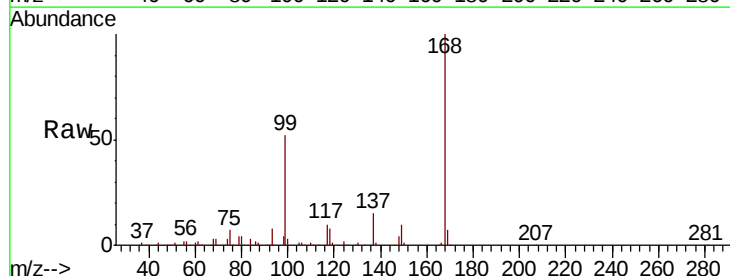
Abundance Ion 95.90 (95.60 to 96.60): VX0  
Ion 60.90 (60.60 to 61.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



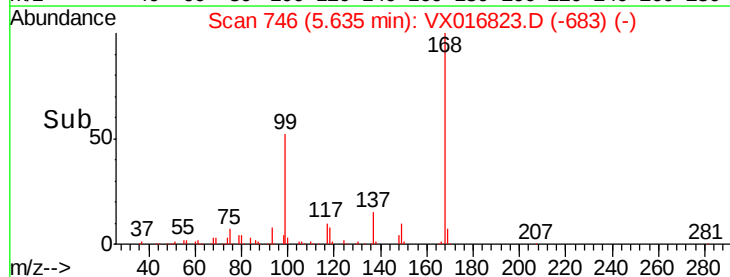
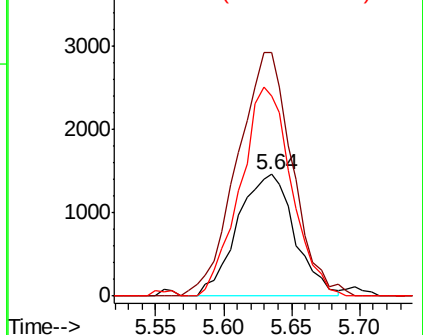
#31

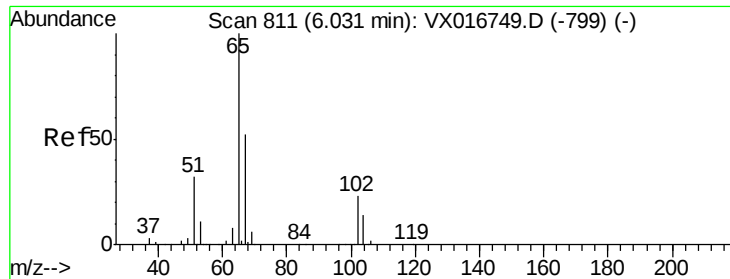
Cyclohexane  
Concen: 1.843 ug/l  
RT: 5.64 min Scan# 746  
Delta R.T. 0.09 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 196.0 | 27.1  | 40.7#  |
| 84      | 164.4 | 74.0  | 111.0# |



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





#33

1,2-Dichloroethane-d4

Concen: 49.640 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

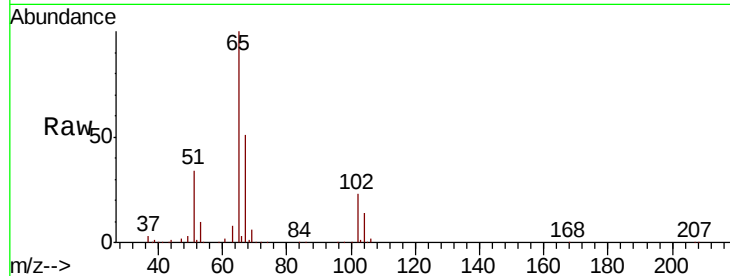
OUTFALL001-200616

Tot Ion: 65 Resp: 142121

Ion Ratio Lower Upper

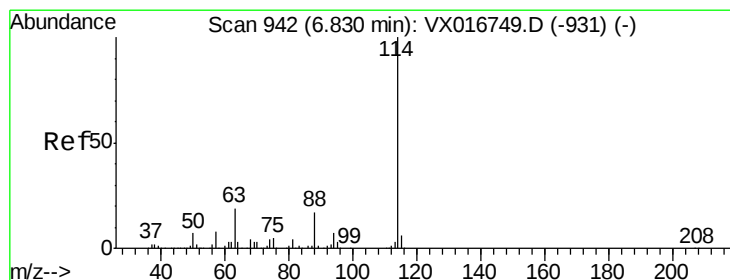
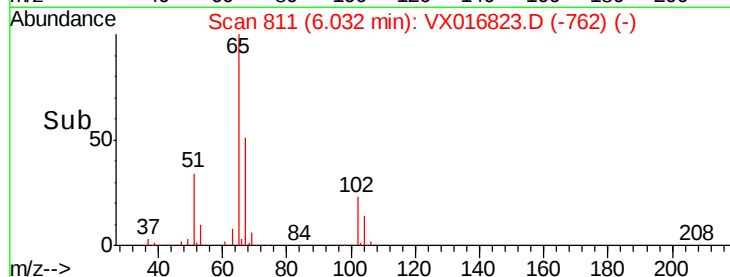
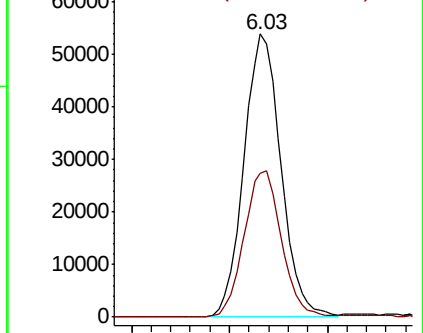
65 100

67 52.3 0.0 103.0



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

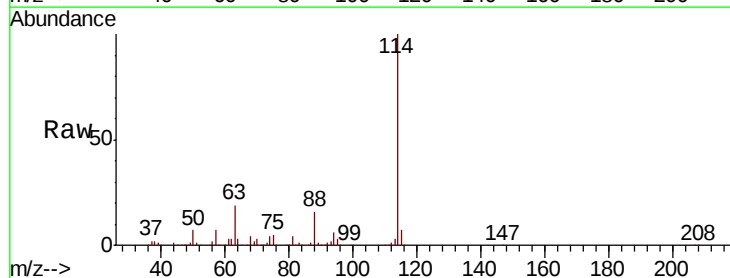
Tgt Ion: 114 Resp: 403724

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.8

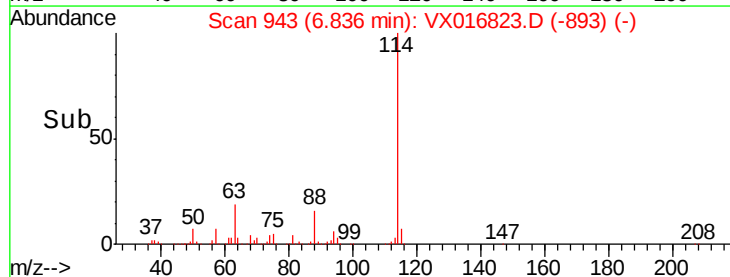
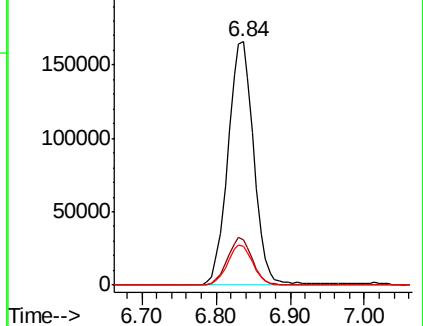
88 15.8 0.0 33.4

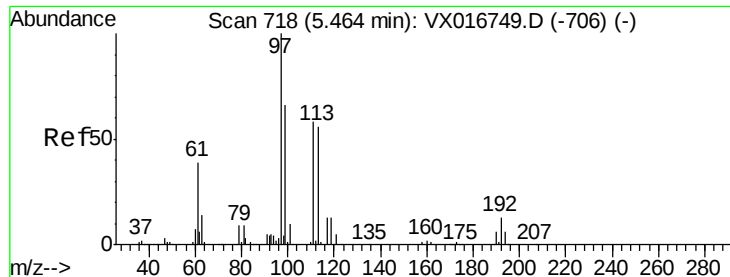


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

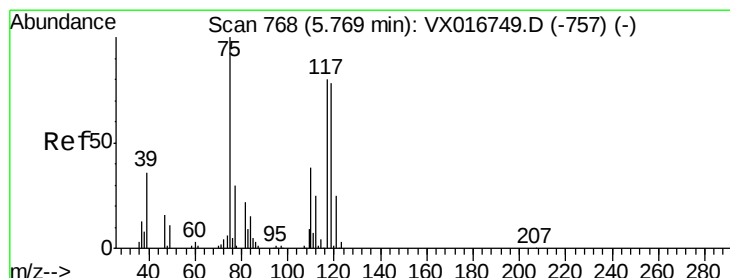
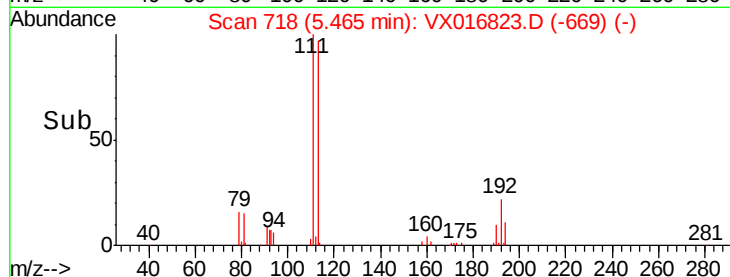
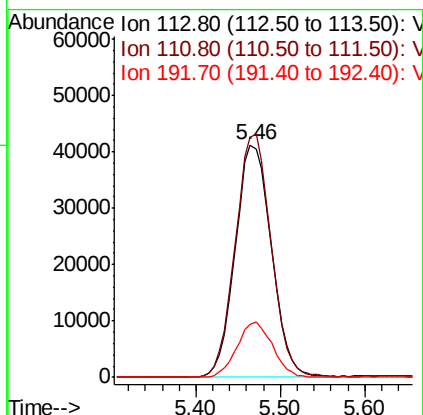
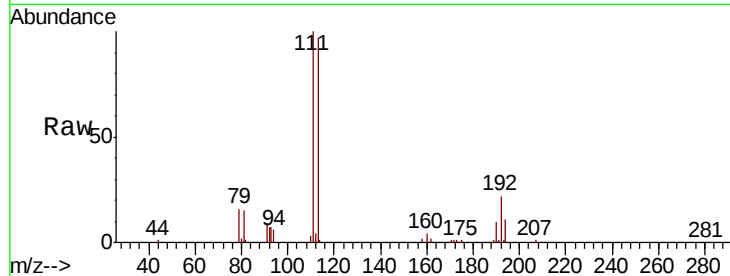




#35  
 Dibromofluoromethane  
 Concen: 48.151 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. 0.00 min  
 Lab File: VX016823.D  
 Acq: 17 Jun 2020 17:43

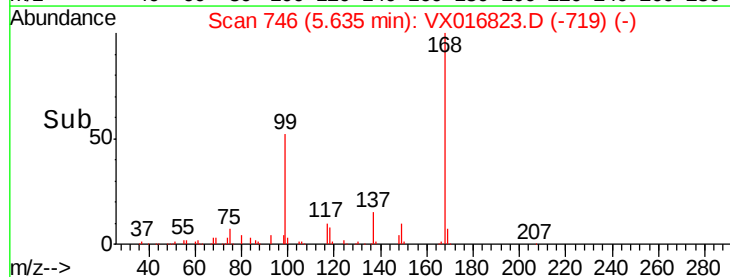
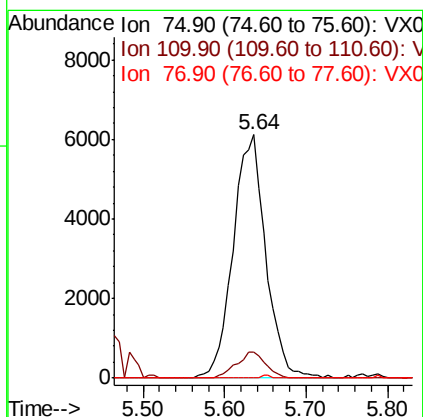
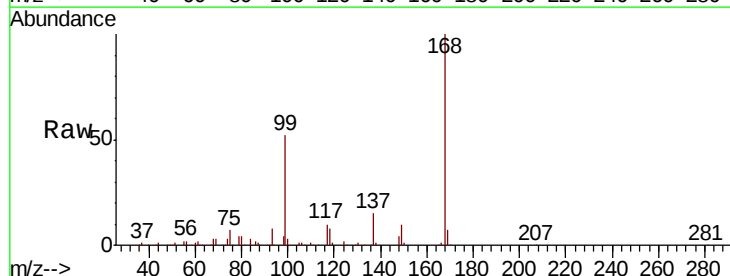
Instrument :  
 MSVOA\_X  
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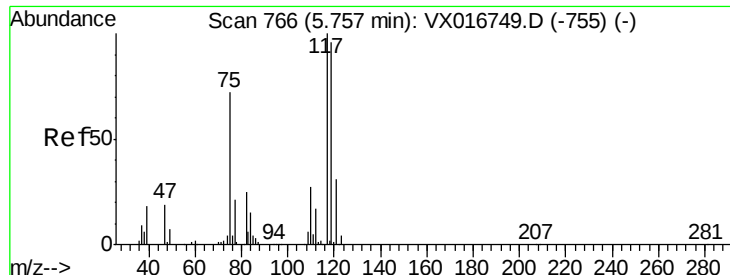
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 81.8  | 122.6 |
| 192     | 23.4  | 18.2  | 27.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.731 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.13 min  
 Lab File: VX016823.D  
 Acq: 17 Jun 2020 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.6   | 18.4  | 55.2# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 5.825 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-200616

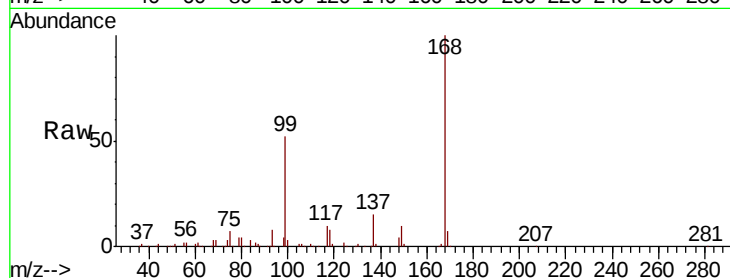
Tot Ion:117 Resp: 23602

Ion Ratio Lower Upper

117 100

119 7.0 76.7 115.1#

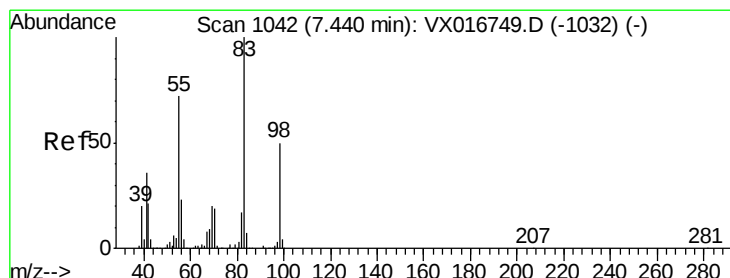
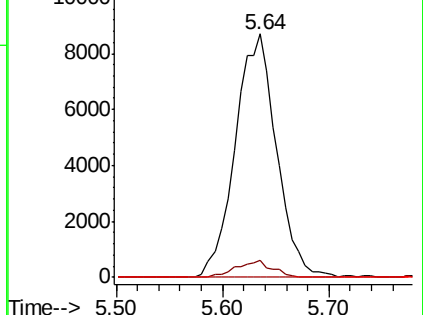
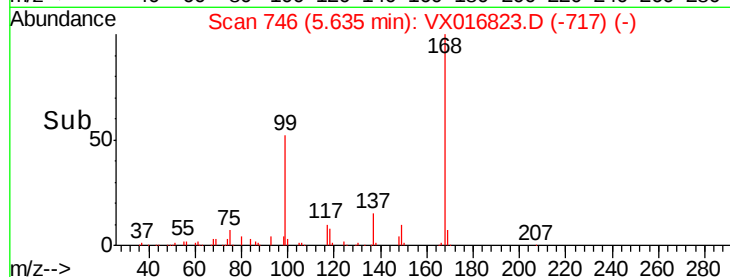
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 1.000 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

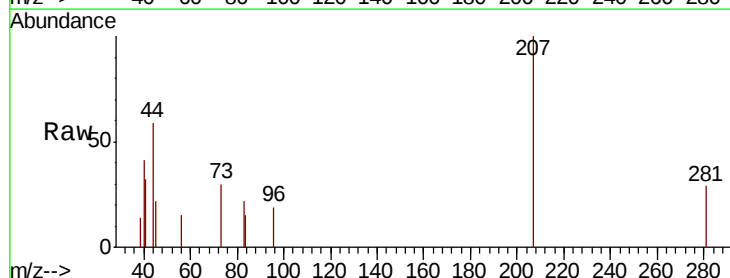
Tgt Ion: 83 Resp: 197

Ion Ratio Lower Upper

83 100

55 0.0 57.3 85.9#

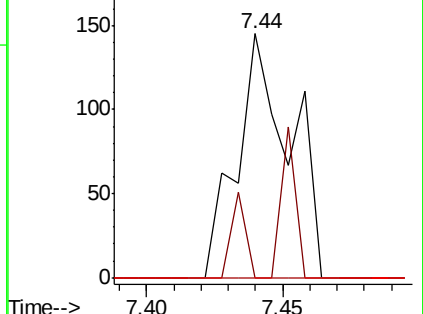
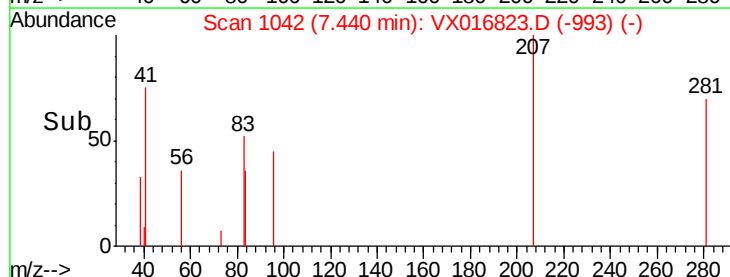
98 0.0 40.3 60.5#

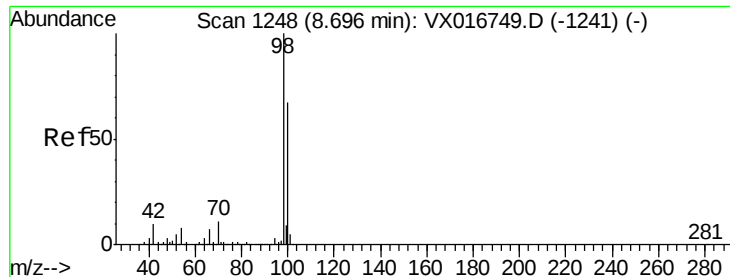


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 61.313 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

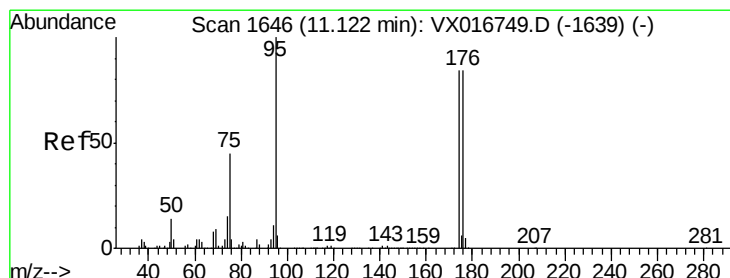
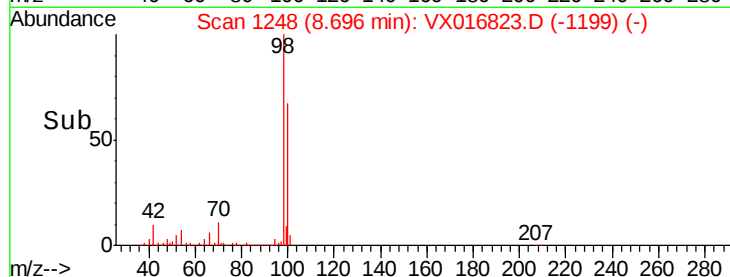
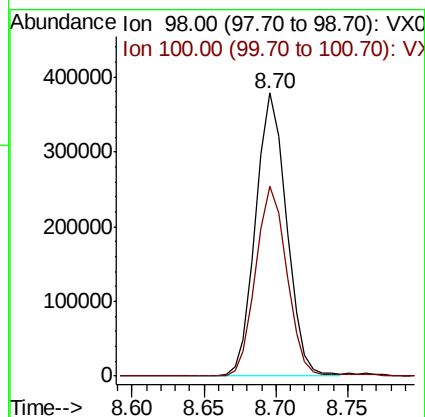
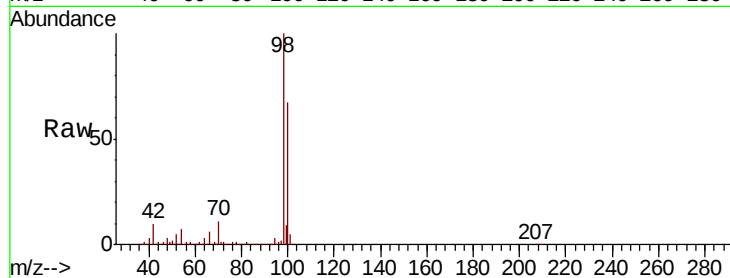
OUTFALL001-200616

Tot Ion: 98 Resp: 563136

Ion Ratio Lower Upper

98 100

100 67.3 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 57.461 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

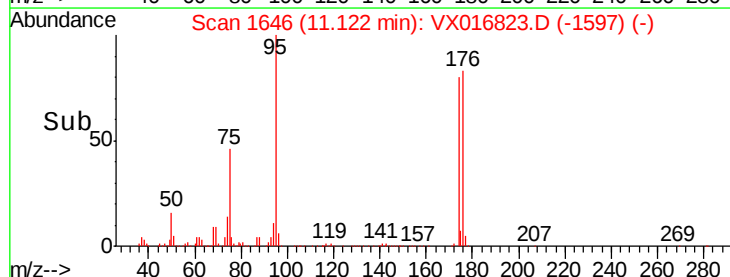
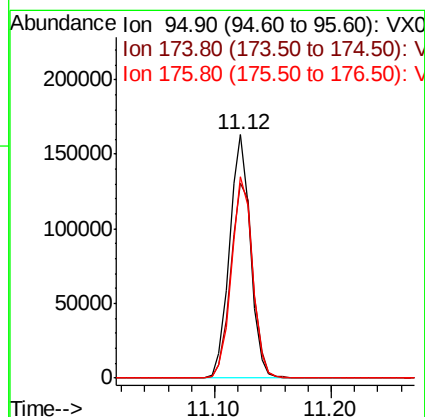
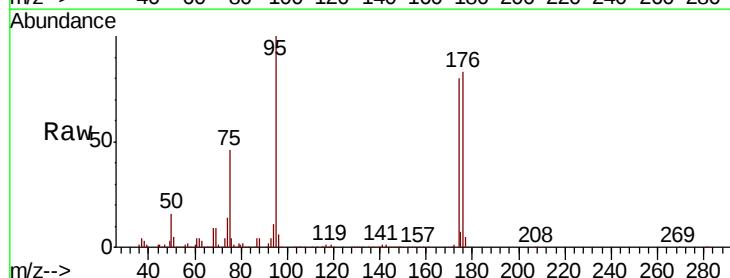
Tgt Ion: 95 Resp: 201868

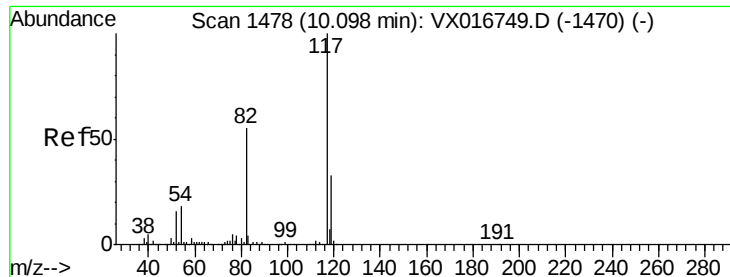
Ion Ratio Lower Upper

95 100

174 86.1 0.0 171.0

176 84.2 0.0 166.2

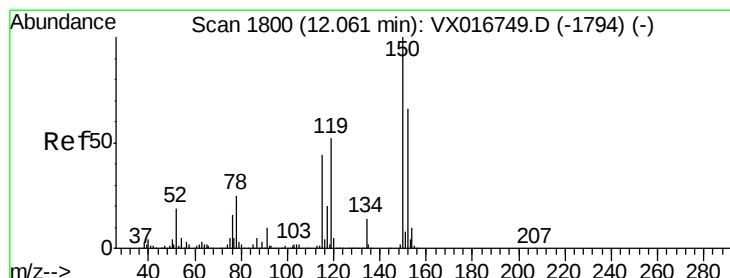
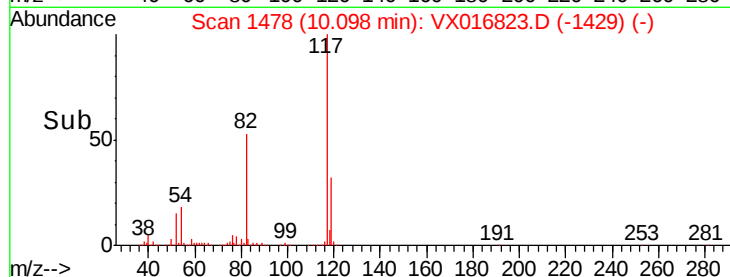
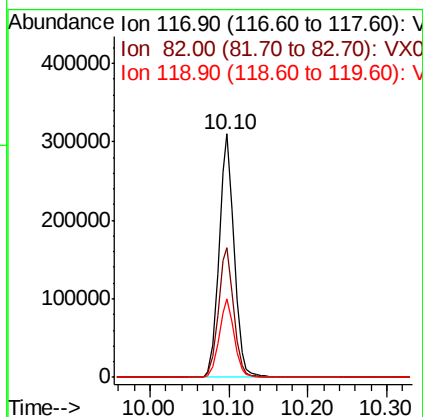
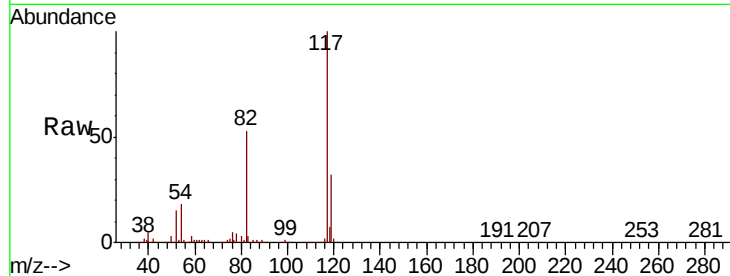




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

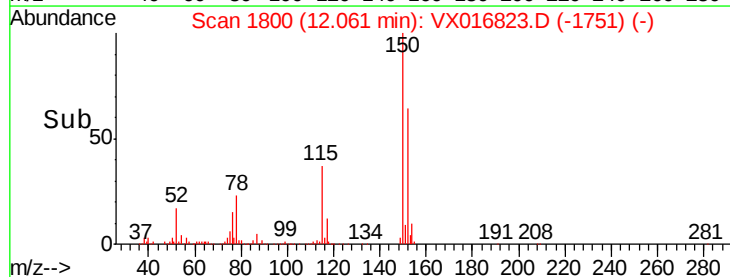
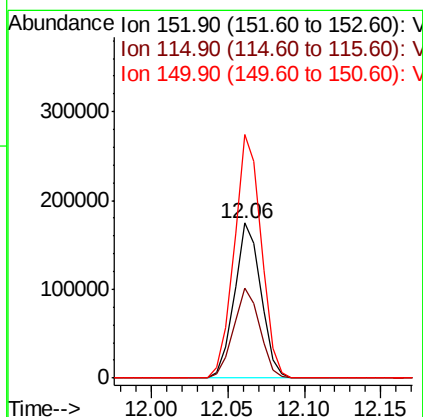
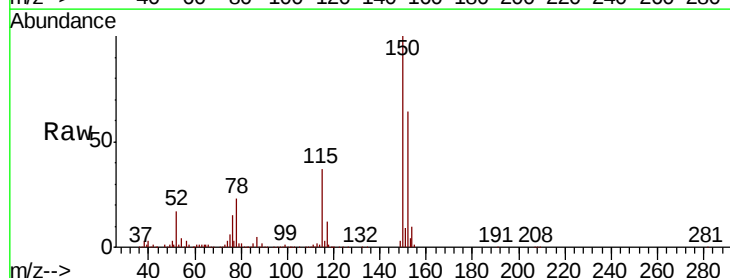
Instrument :  
MSVOA\_X  
ClientSampleId :  
OUTFALL001-200616

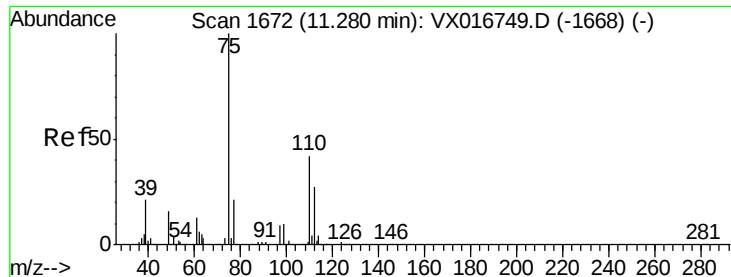
Tot Ion:117 Resp: 411037  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.8 65.6  
119 32.0 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. 0.00 min  
Lab File: VX016823.D  
Acq: 17 Jun 2020 17:43

Tgt Ion:152 Resp: 209871  
Ion Ratio Lower Upper  
152 100  
115 57.9 40.3 120.8  
150 159.4 0.0 337.4





#76

1,2,3-Trichloropropane

Concen: 21.461 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

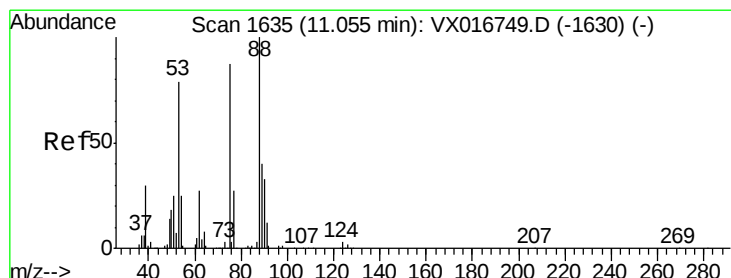
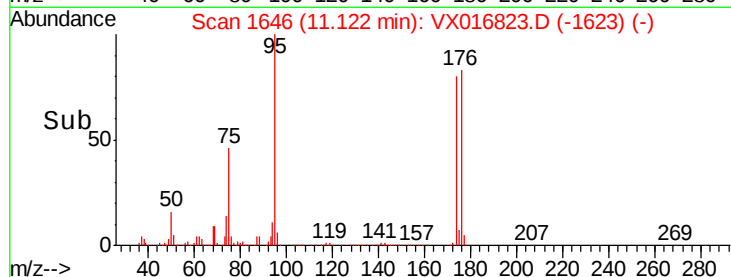
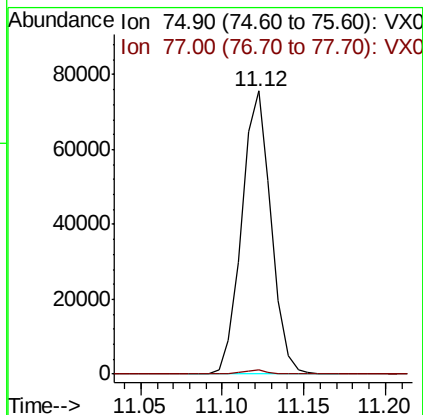
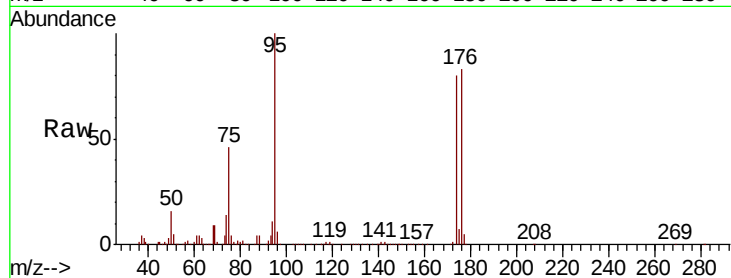
OUTFALL001-200616

Tot Ion: 75 Resp: 94719

Ion Ratio Lower Upper

75 100

77 1.3 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.028 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

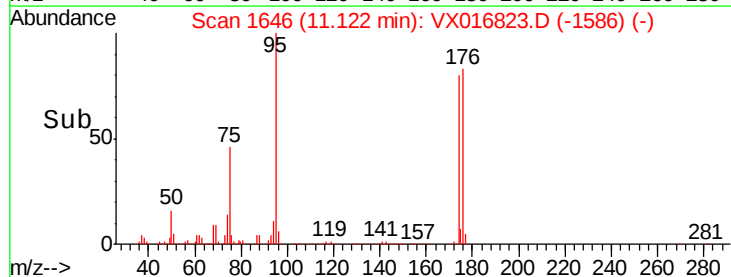
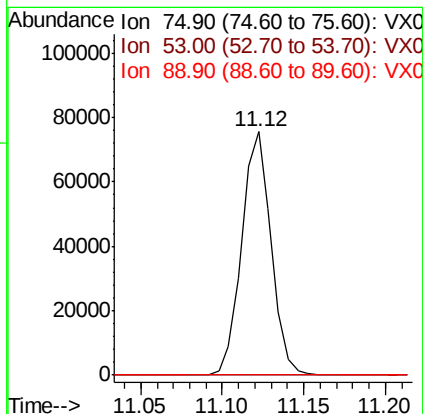
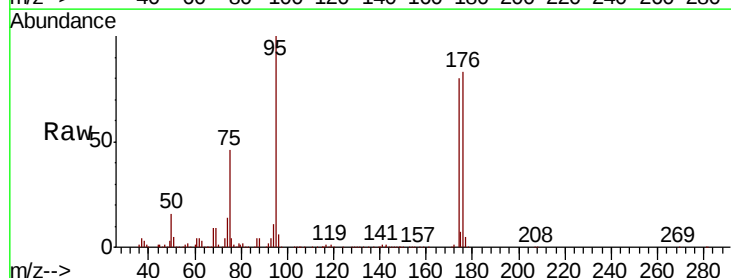
Tgt Ion: 75 Resp: 94719

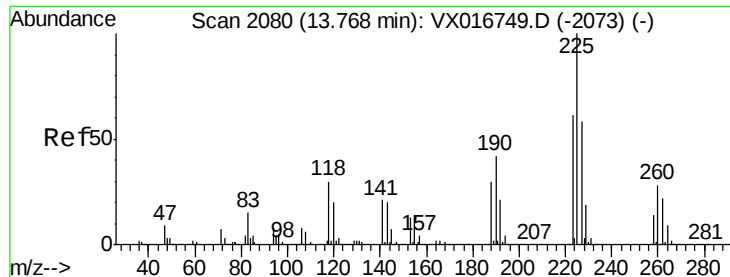
Ion Ratio Lower Upper

75 100

53 0.1 71.4 107.0#

89 0.0 39.1 58.7#





#94

Hexachlorobutadiene

Concen: 0.631 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016823.D

Acq: 17 Jun 2020 17:43

Instrument :

MSVOA\_X

ClientSampleId :

OUTFALL001-200616

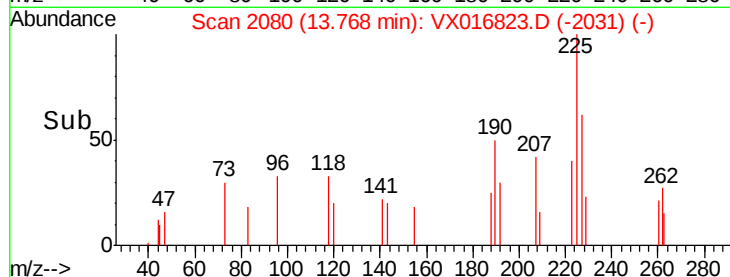
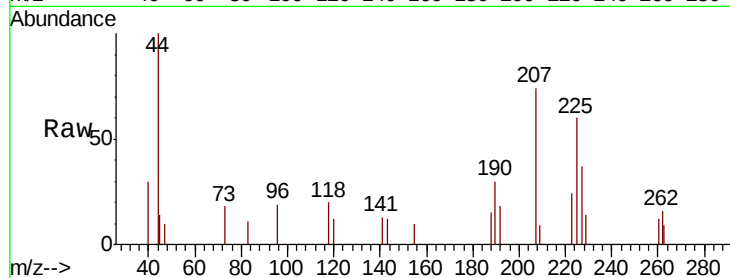
Tot Ion: 225 Resp: 445

Ion Ratio Lower Upper

225 100

223 70.3 31.1 93.5

227 55.3 30.9 92.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

