

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091620\  
 Data File : VX018444.D  
 Acq On : 16 Sep 2020 16:50  
 Operator : JC/SP  
 Sample : L3988-27  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FC-DUP06-20200910

Quant Time: Sep 17 08:07:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 435441   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 698365   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 677249   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 355443   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 309461   | 51.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.38% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 238910   | 50.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.46% |          |
| 50) Toluene-d8              | 8.70  | 98   | 861212   | 48.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.24%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 332355   | 47.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.38%  |          |

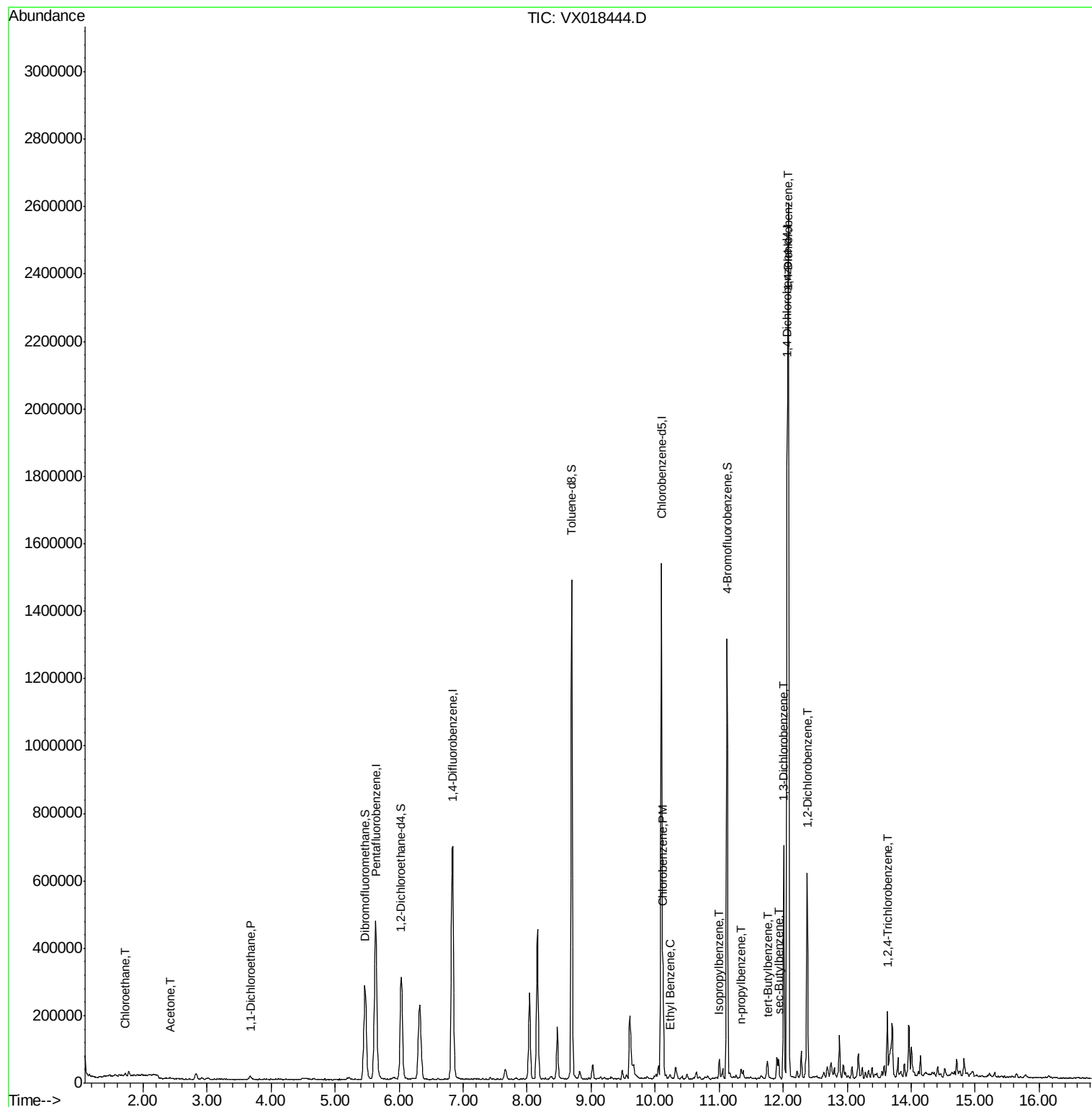
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 6) Chloroethane            | 1.72  | 64   | 4866     | 1.628  | ug/l  | 94     |
| 16) Acetone                | 2.42  | 43   | 5470     | 2.322  | ug/l  | 94     |
| 24) 1,1-Dichloroethane     | 3.67  | 63   | 11433    | 1.331  | ug/l  | 94     |
| 65) Chlorobenzene          | 10.12 | 112  | 126255   | 9.334  | ug/l  | 99     |
| 67) Ethyl Benzene          | 10.24 | 91   | 4879     | 0.212  | ug/l  | 92     |
| 73) Isopropylbenzene       | 11.00 | 105  | 29589    | 1.262  | ug/l  | 100    |
| 78) n-propylbenzene        | 11.34 | 91   | 13188    | 0.495  | ug/l  | 95     |
| 83) tert-Butylbenzene      | 11.76 | 119  | 19208    | 1.010  | ug/l  | 80     |
| 85) sec-Butylbenzene       | 11.93 | 105  | 29328    | 1.356  | ug/l  | 92     |
| 87) 1,3-Dichlorobenzene    | 12.01 | 146  | 222350   | 19.541 | ug/l  | 99     |
| 88) 1,4-Dichlorobenzene    | 12.08 | 146  | 746569   | 65.530 | ug/l  | 98     |
| 91) 1,2-Dichlorobenzene    | 12.38 | 146  | 195515   | 18.254 | ug/l  | 98     |
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 40632    | 5.689  | ug/l  | 90     |

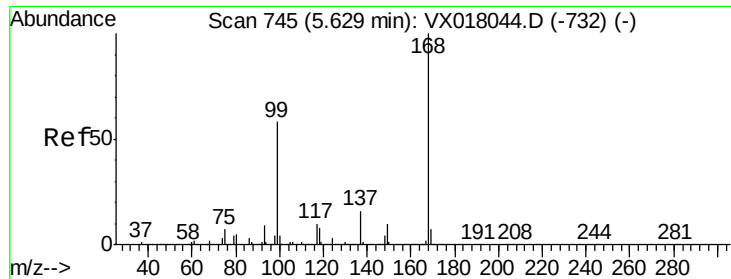
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 17 08:07:27 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 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: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

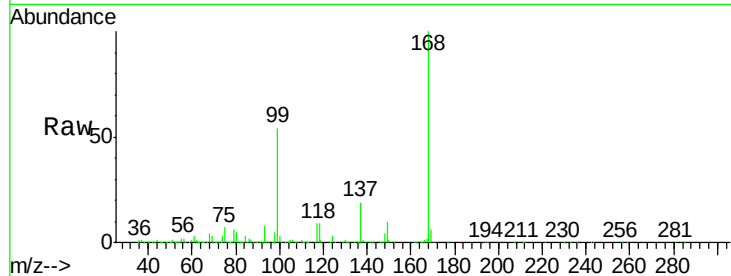
FC-DUP06-20200910

Tot Ion:168 Resp: 435441

Ion Ratio Lower Upper

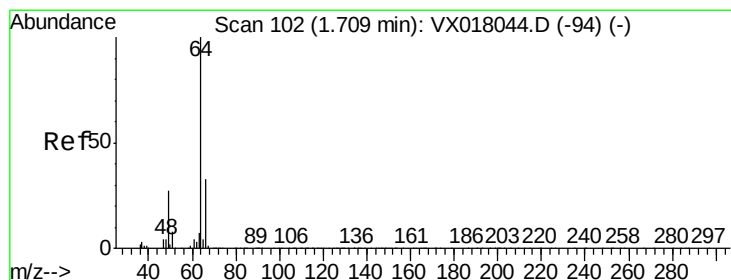
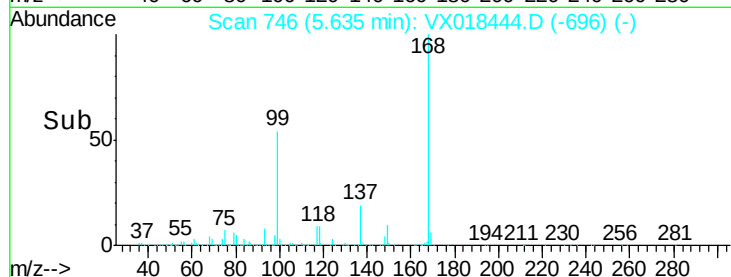
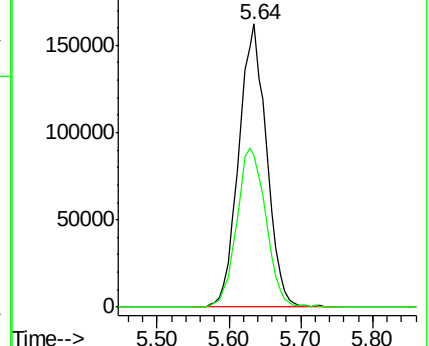
168 100

99 53.6 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 1.628 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX018444.D

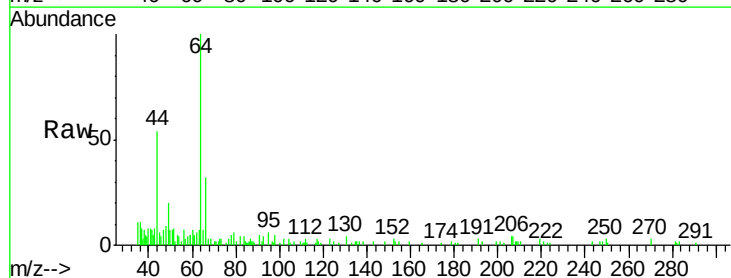
Acq: 16 Sep 2020 16:50

Tgt Ion: 64 Resp: 4866

Ion Ratio Lower Upper

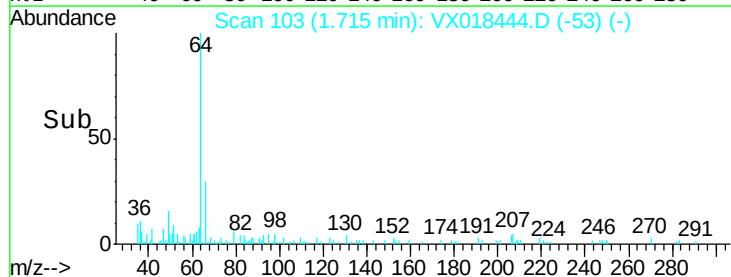
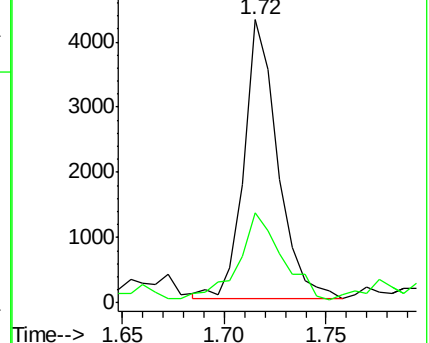
64 100

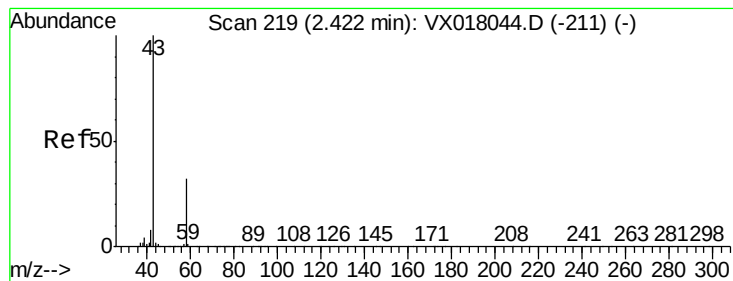
66 29.9 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#16

Acetone

Concen: 2.322 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

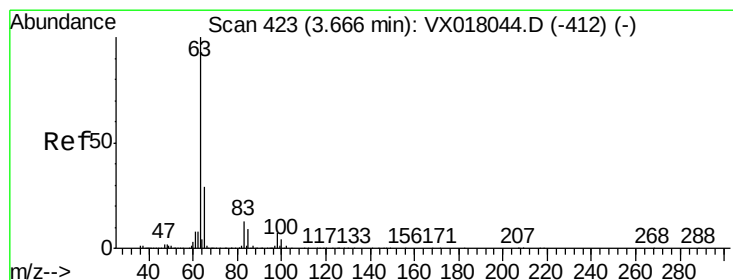
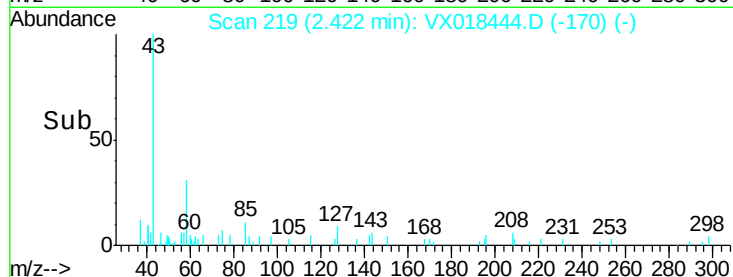
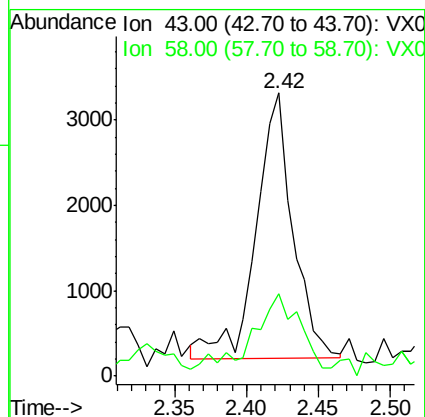
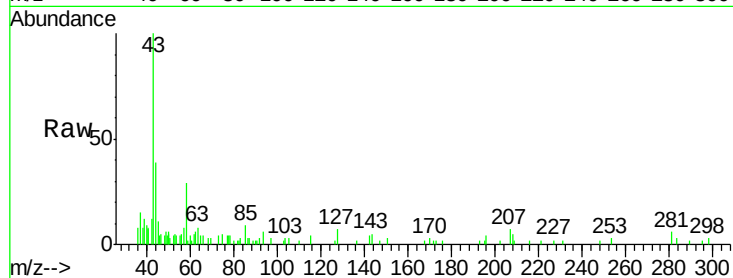
FC-DUP06-20200910

Tot Ion: 43 Resp: 5470

Ion Ratio Lower Upper

43 100

58 28.8 25.5 38.3



#24

1,1-Dichloroethane

Concen: 1.331 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

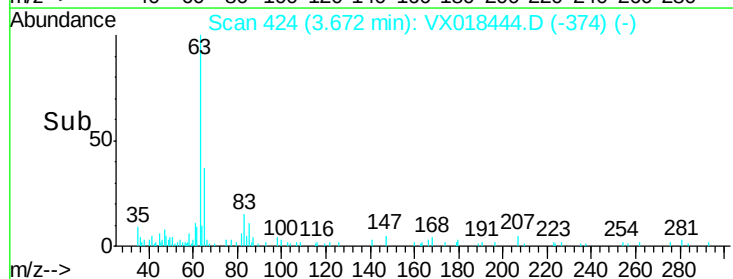
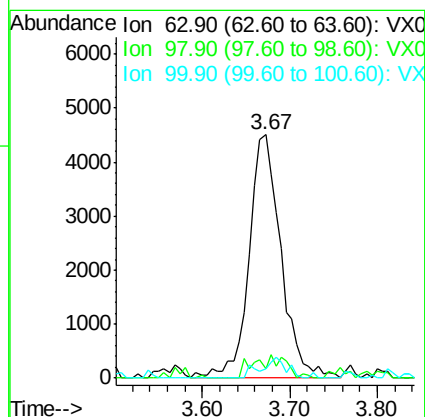
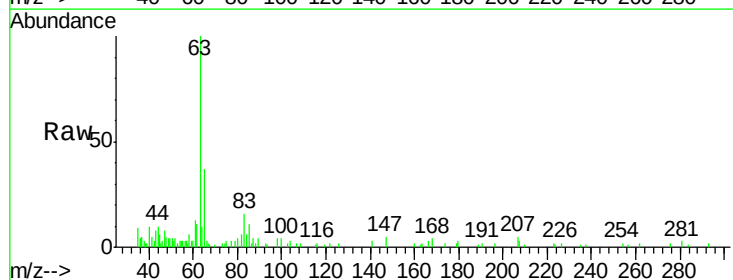
Tgt Ion: 63 Resp: 11433

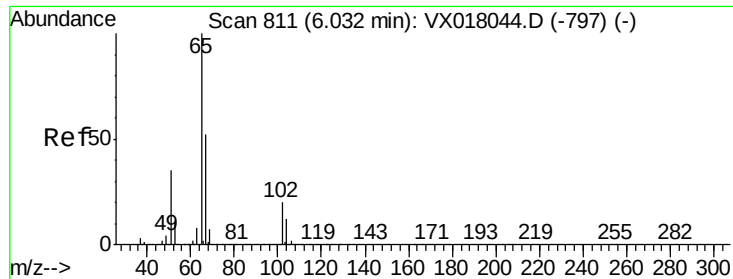
Ion Ratio Lower Upper

63 100

98 3.9 3.6 10.8

100 4.0 2.0 6.0

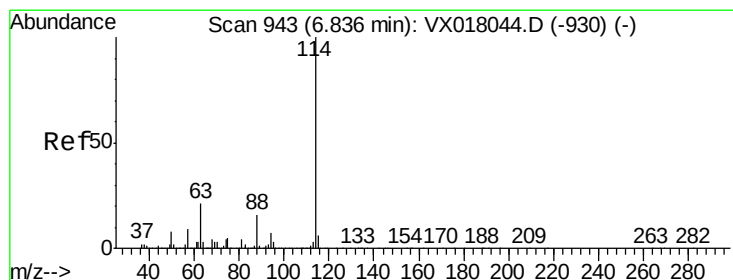
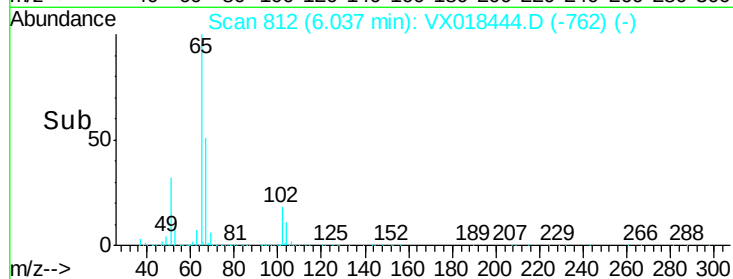
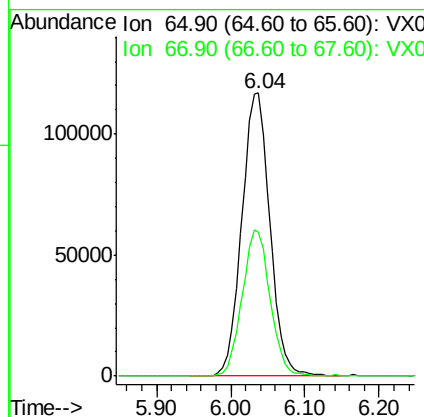
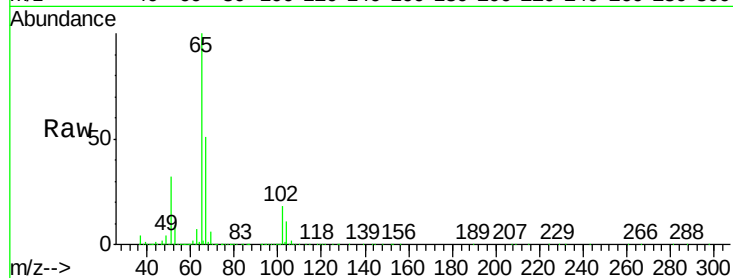




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.193 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX018444.D  
 Acq: 16 Sep 2020 16:50

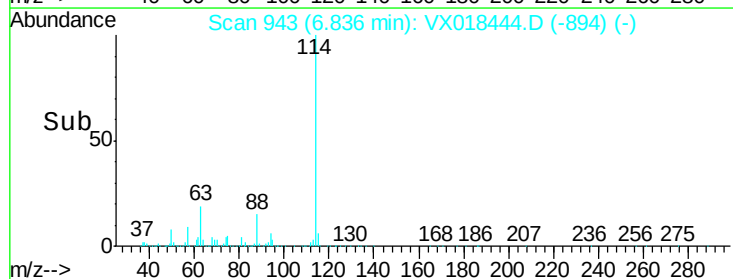
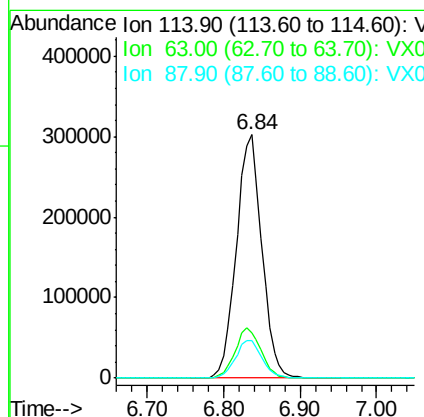
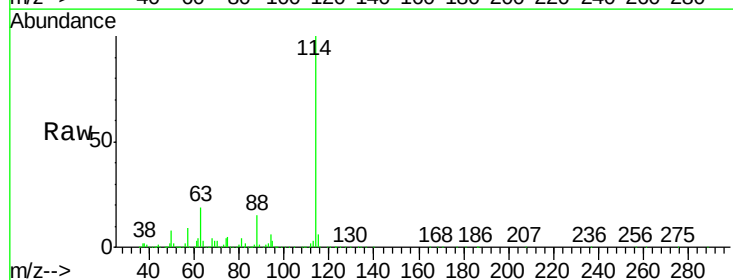
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FC-DUP06-20200910

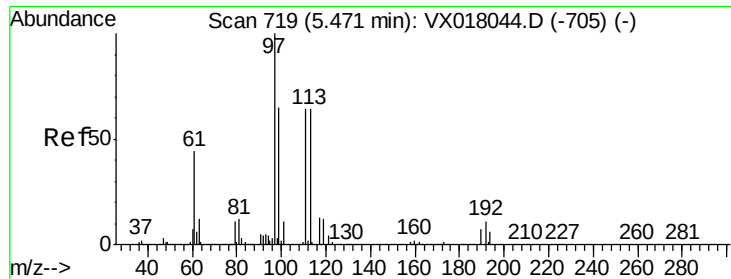
Tot Ion: 65 Resp: 309461  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. -0.00 min  
 Lab File: VX018444.D  
 Acq: 16 Sep 2020 16:50

Tgt Ion: 114 Resp: 698365  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 42.6  
 88 15.3 0.0 31.8

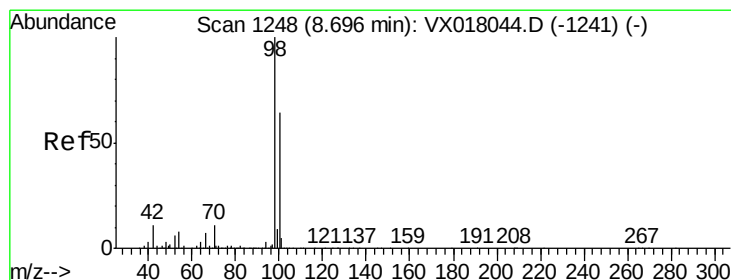
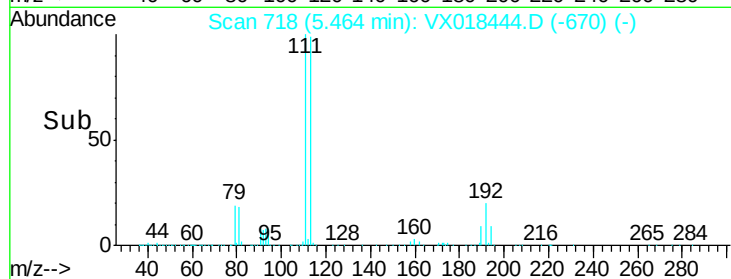
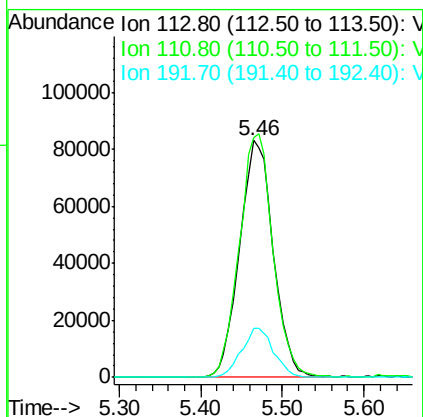
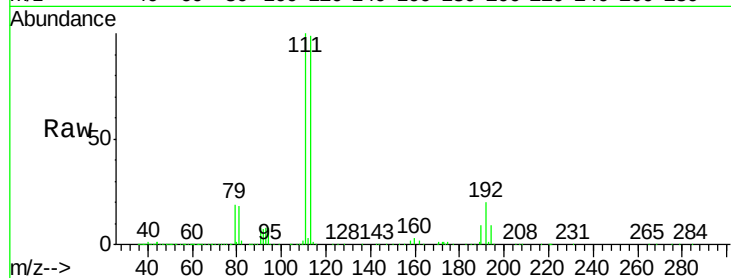




#35  
Dibromofluoromethane  
Concen: 50.231 ug/l  
RT: 5.46 min Scan# 718  
Delta R.T. -0.01 min  
Lab File: VX018444.D  
Acq: 16 Sep 2020 16:50

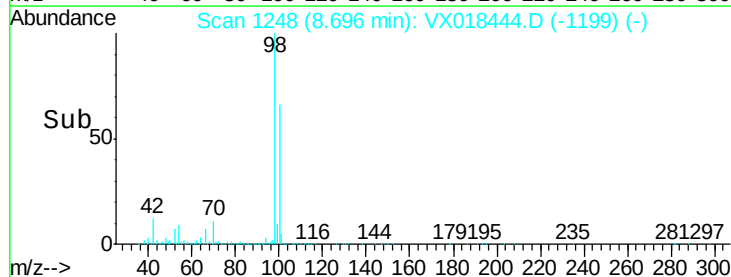
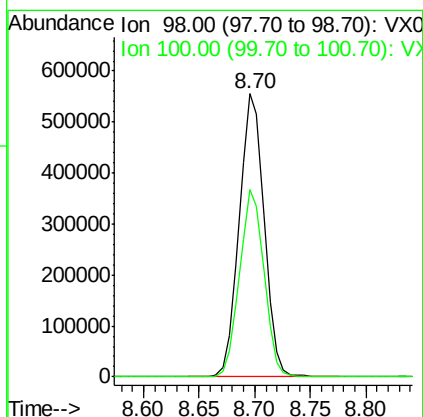
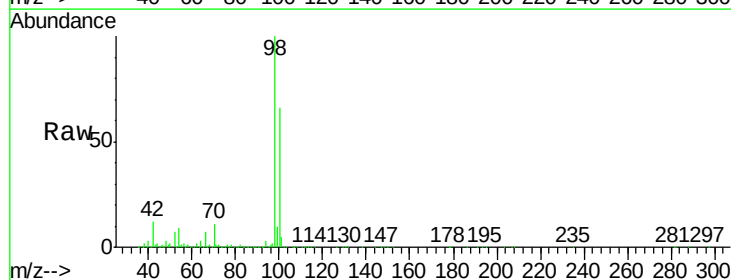
Instrument :  
MSVOA\_X  
ClientSampleId :  
FC-DUP06-20200910

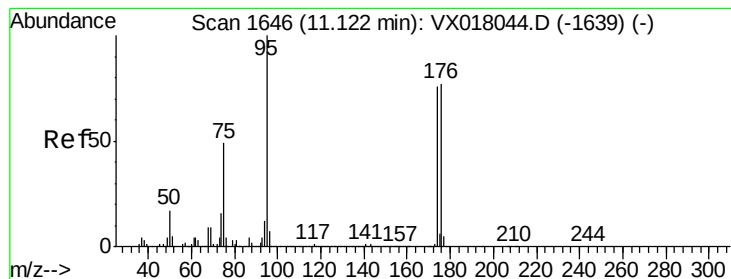
Tot Ion:113 Resp: 238910  
Ion Ratio Lower Upper  
113 100  
111 102.8 81.6 122.4  
192 20.0 15.8 23.8



#50  
Toluene-d8  
Concen: 48.616 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX018444.D  
Acq: 16 Sep 2020 16:50

Tgt Ion: 98 Resp: 861212  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.4





#62

4-Bromofluorobenzene

Concen: 47.686 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

FC-DUP06-20200910

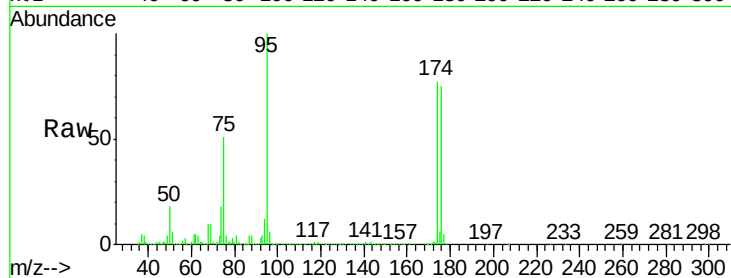
Tot Ion: 95 Resp: 332355

Ion Ratio Lower Upper

95 100

174 78.8 0.0 160.2

176 76.1 0.0 155.8

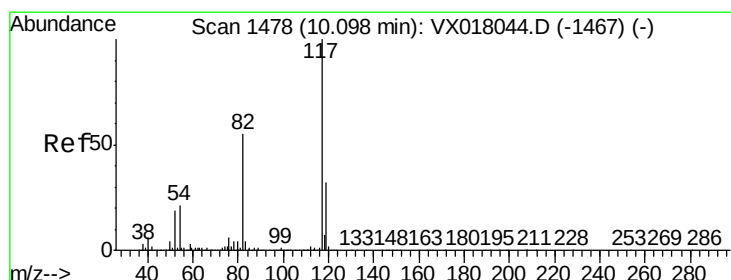
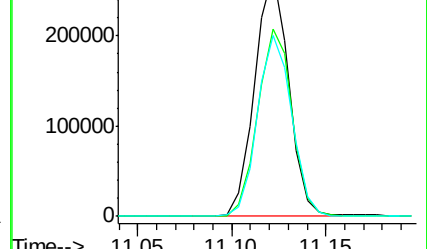
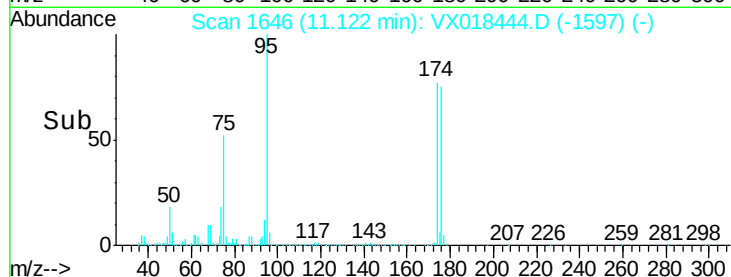


Abundance Ion 94.90 (94.60 to 95.60): VX018444.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018444.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018444.D (-1639) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

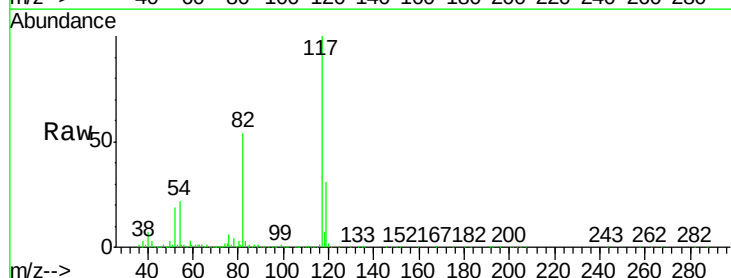
Tgt Ion: 117 Resp: 677249

Ion Ratio Lower Upper

117 100

82 54.0 44.2 66.2

119 30.7 25.7 38.5

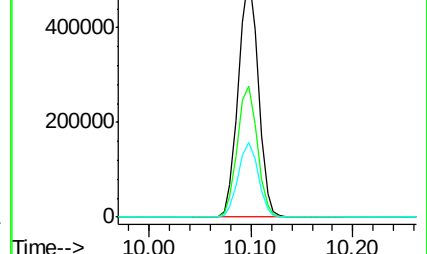
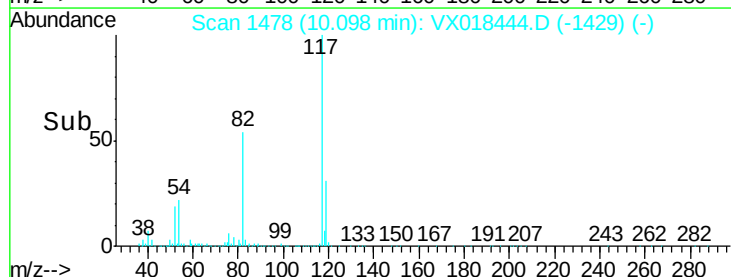


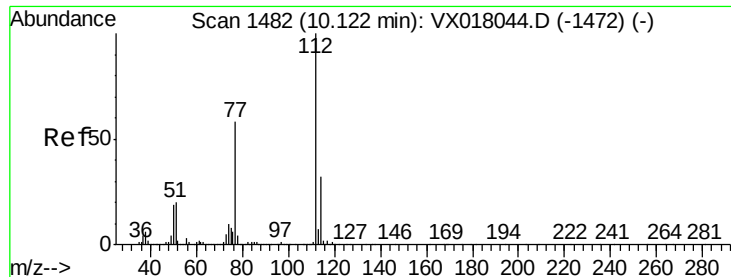
Abundance Ion 116.90 (116.60 to 117.60): VX018444.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018444.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018444.D (-1467) (-)

Time-->





#65

Chlorobenzene

Concen: 9.334 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

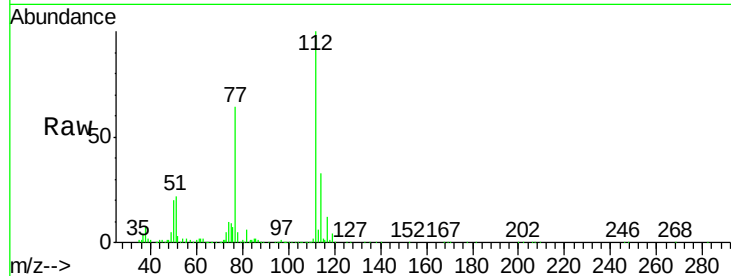
FC-DUP06-20200910

Tot Ion:112 Resp: 126255

Ion Ratio Lower Upper

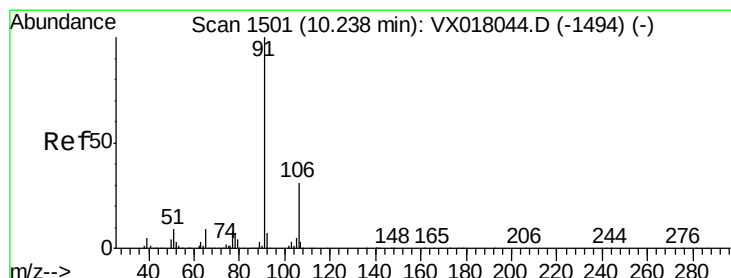
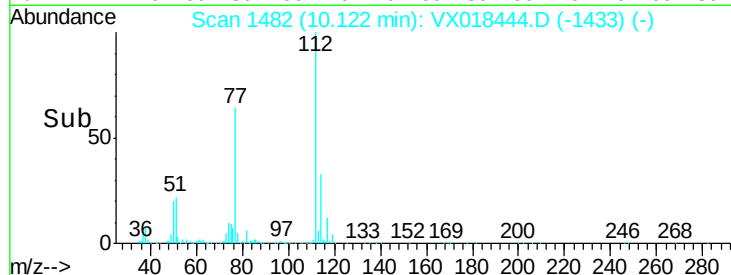
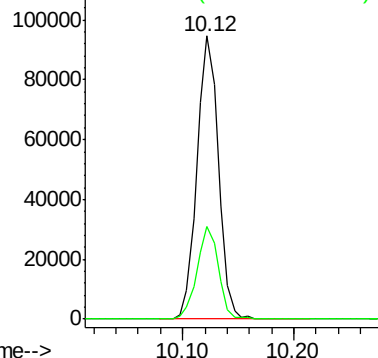
112 100

114 32.8 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 0.212 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VX018444.D

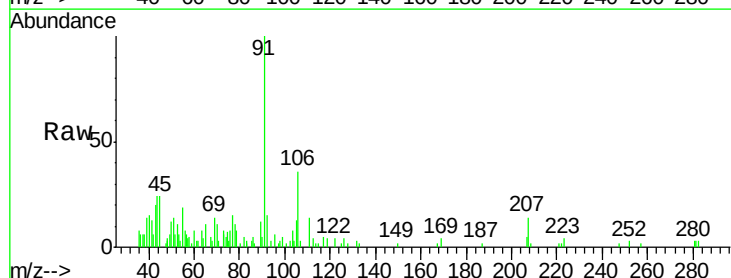
Acq: 16 Sep 2020 16:50

Tgt Ion: 91 Resp: 4879

Ion Ratio Lower Upper

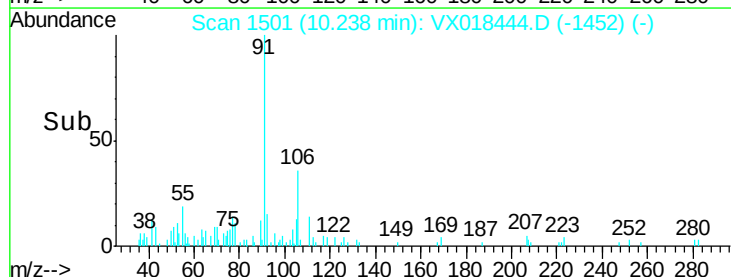
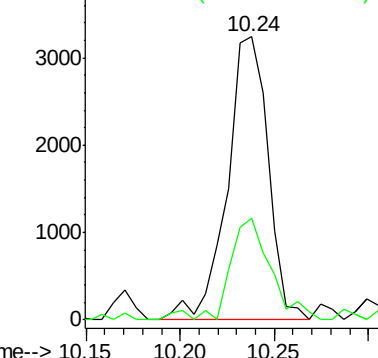
91 100

106 35.7 24.9 37.3

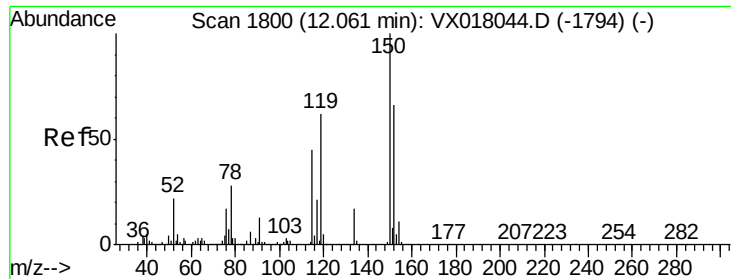


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V







#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

FC-DUP06-20200910

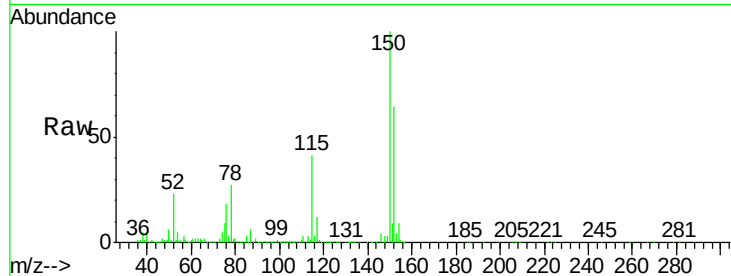
Tot Ion:152 Resp: 355443

Ion Ratio Lower Upper

152 100

115 59.7 41.5 124.5

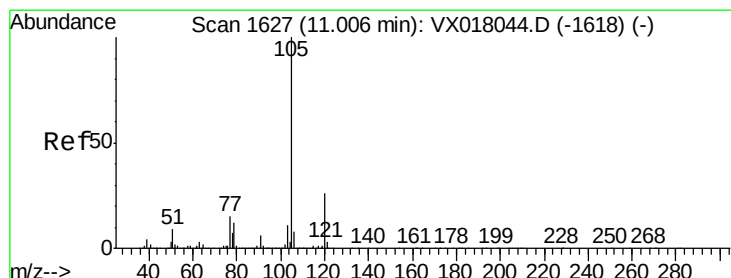
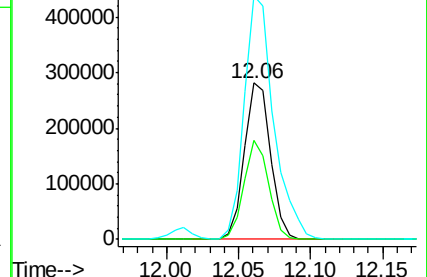
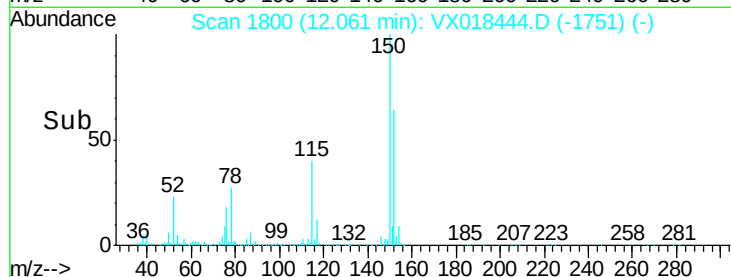
150 174.6 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.262 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.01 min

Lab File: VX018444.D

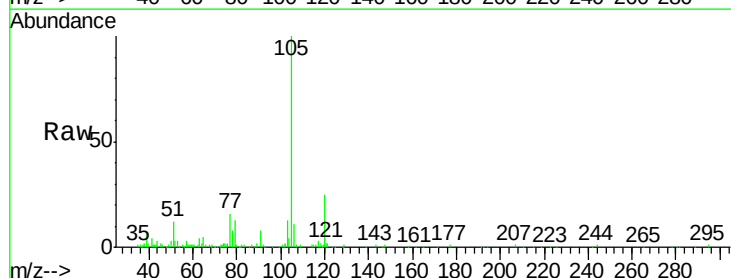
Acq: 16 Sep 2020 16:50

Tgt Ion:105 Resp: 29589

Ion Ratio Lower Upper

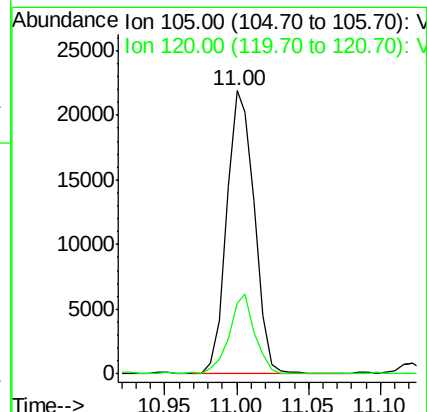
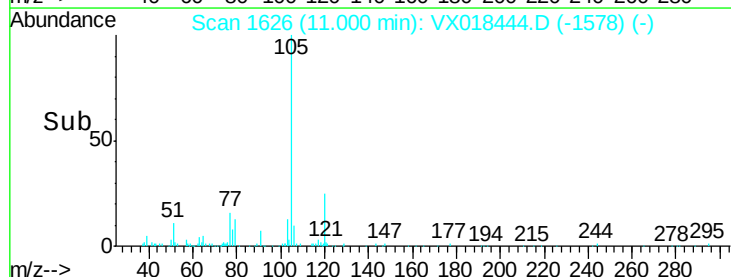
105 100

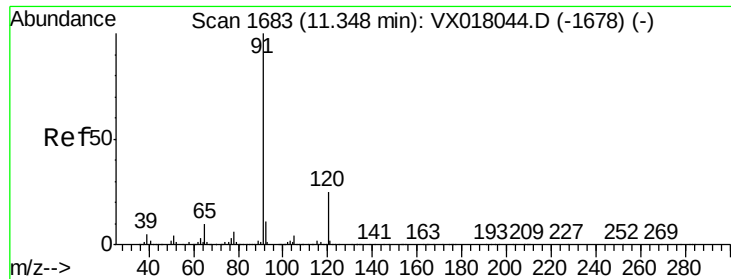
120 26.2 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 0.495 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

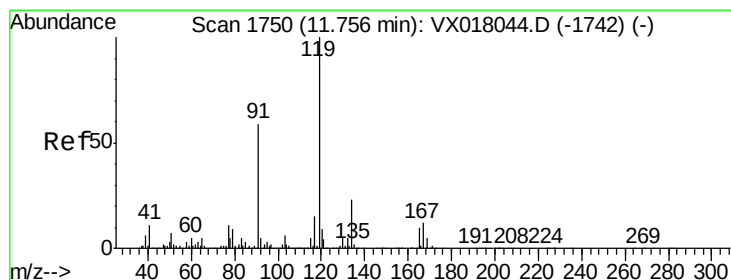
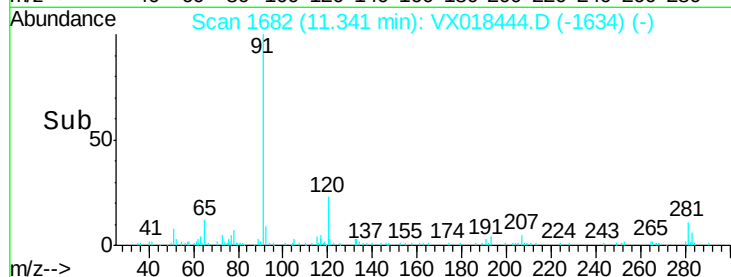
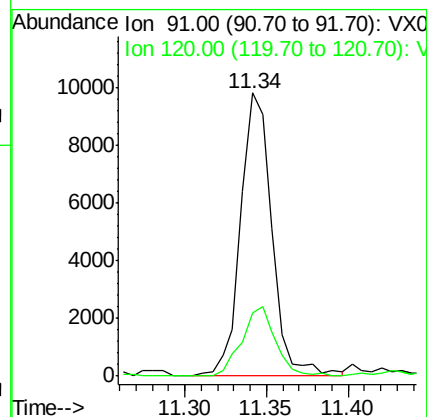
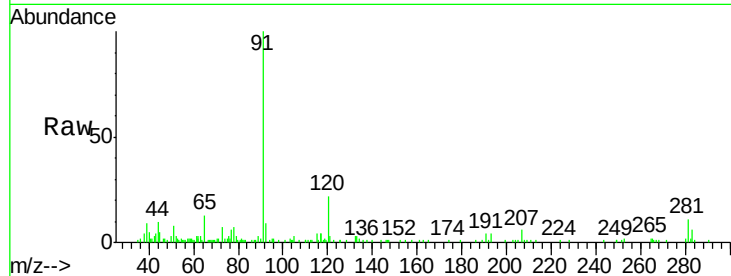
FC-DUP06-20200910

Tot Ion: 91 Resp: 13188

Ion Ratio Lower Upper

91 100

120 26.5 11.9 35.9



#83

tert-Butylbenzene

Concen: 1.010 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

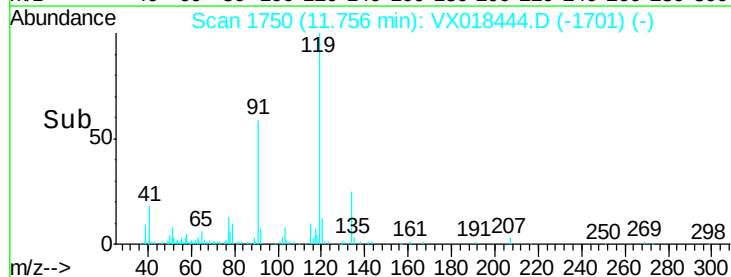
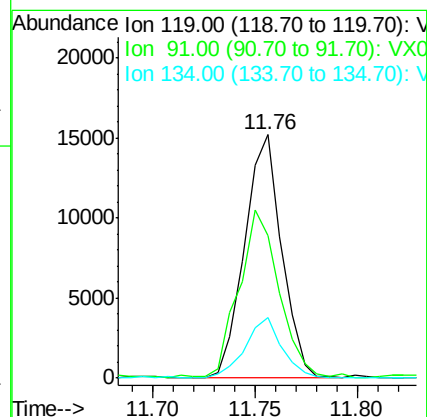
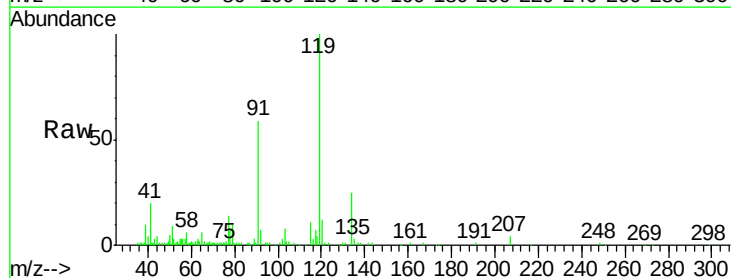
Tgt Ion: 119 Resp: 19208

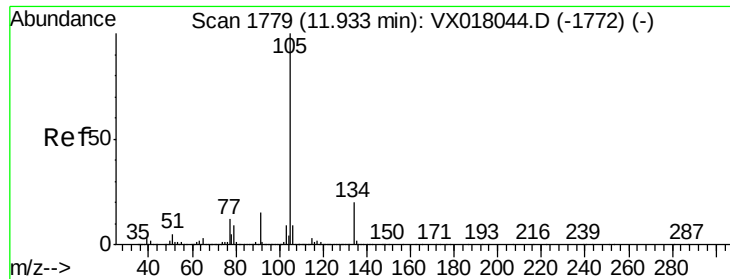
Ion Ratio Lower Upper

119 100

91 76.0 28.2 84.7

134 24.7 11.3 33.8

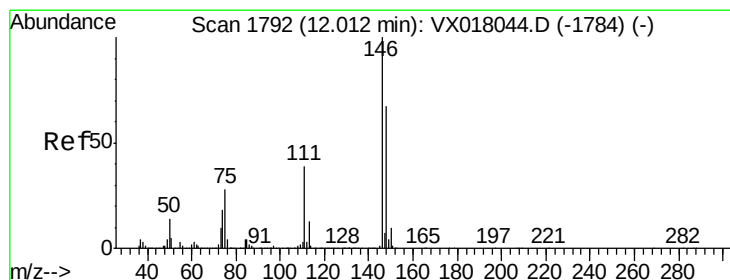
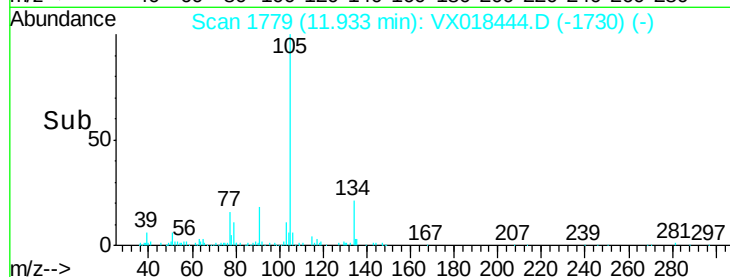
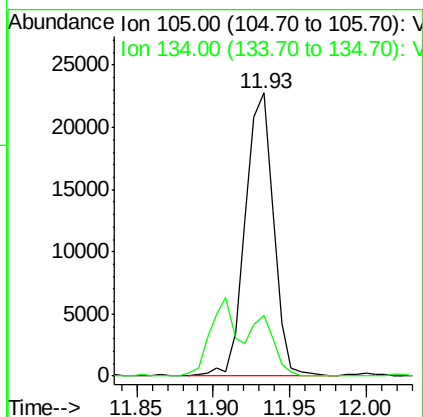
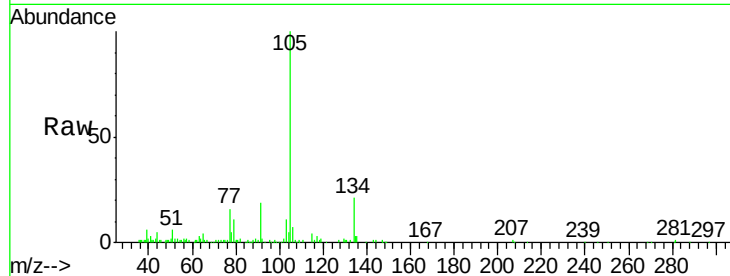




#85  
 sec-Butylbenzene  
 Concen: 1.356 ug/l  
 RT: 11.93 min Scan# 1779  
 Delta R.T. -0.00 min  
 Lab File: VX018444.D  
 Acq: 16 Sep 2020 16:50

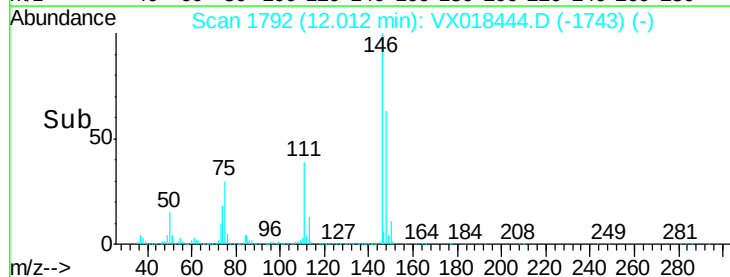
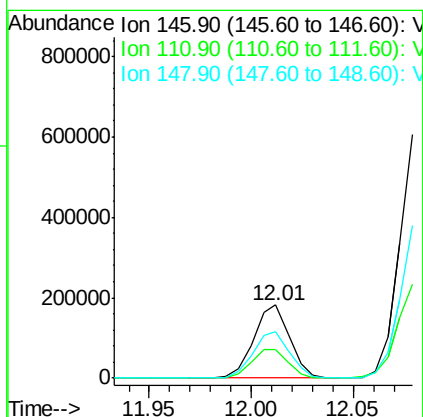
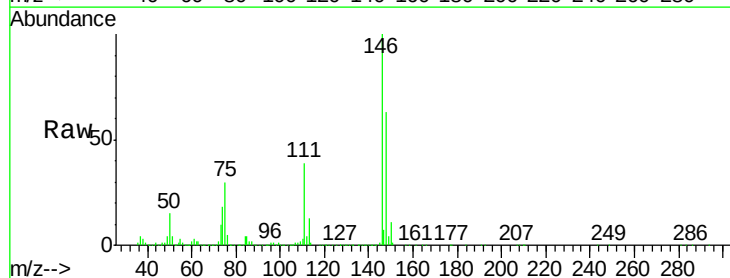
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FC-DUP06-20200910

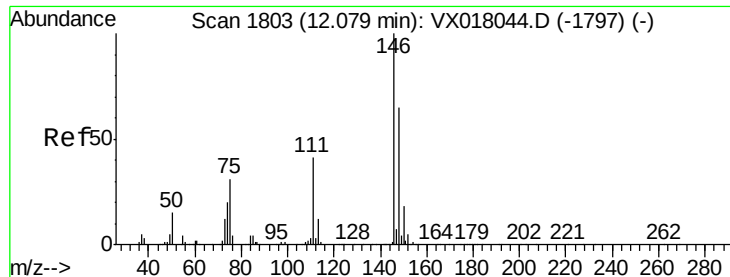
Tot Ion:105 Resp: 29328  
 Ion Ratio Lower Upper  
 105 100  
 134 16.6 10.1 30.3



#87  
 1,3-Dichlorobenzene  
 Concen: 19.541 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX018444.D  
 Acq: 16 Sep 2020 16:50

Tgt Ion:146 Resp: 222350  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 20.6 61.8  
 148 64.4 33.1 99.2





#88

1,4-Dichlorobenzene

Concen: 65.530 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

FC-DUP06-20200910

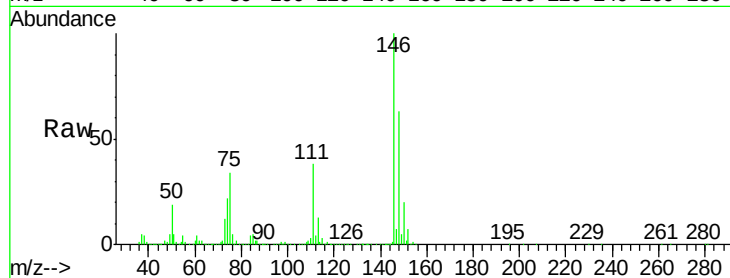
Tot Ion:146 Resp: 746569

Ion Ratio Lower Upper

146 100

111 39.6 20.3 60.8

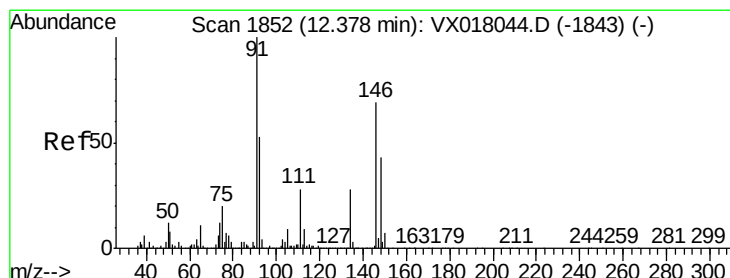
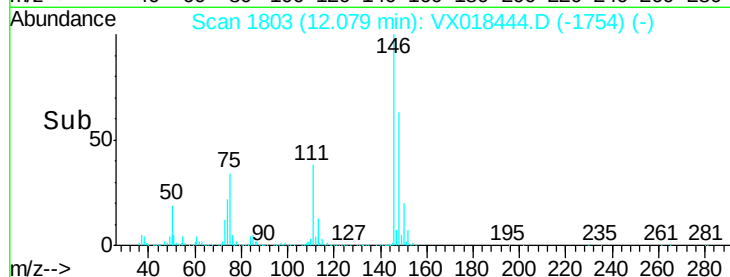
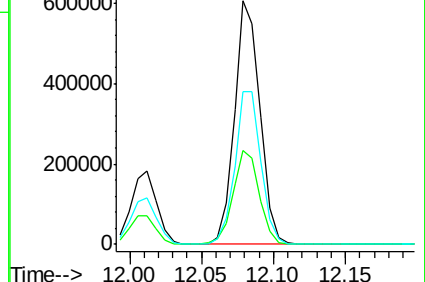
148 64.3 33.1 99.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 18.254 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

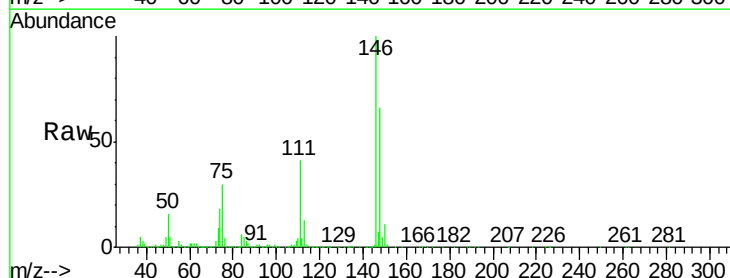
Tgt Ion:146 Resp: 195515

Ion Ratio Lower Upper

146 100

111 42.3 20.8 62.5

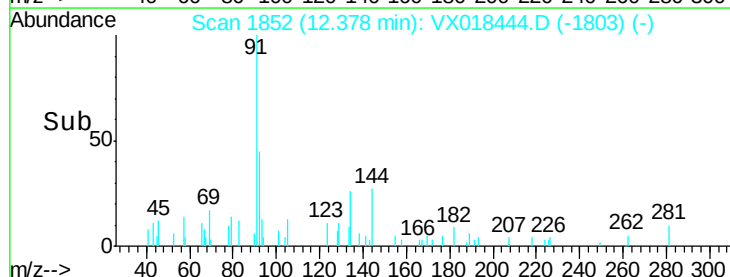
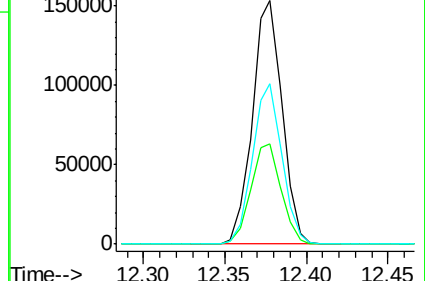
148 65.0 31.6 95.0

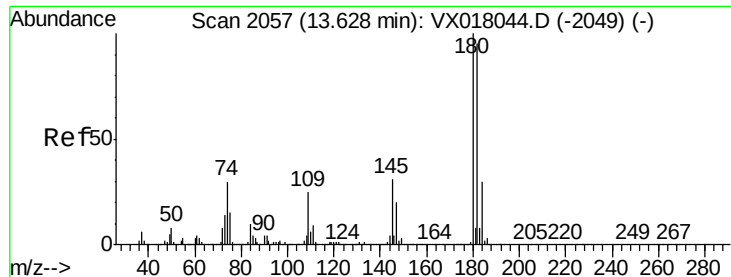


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 5.689 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018444.D

Acq: 16 Sep 2020 16:50

Instrument :

MSVOA\_X

ClientSampleId :

FC-DUP06-20200910

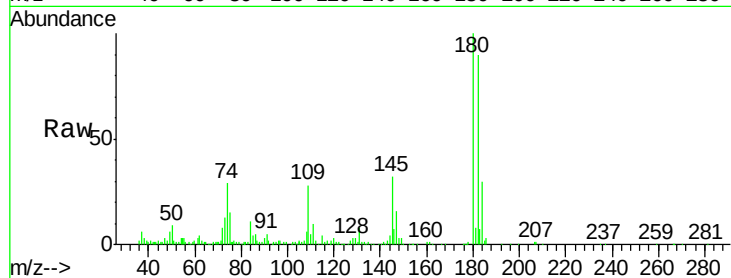
Tot Ion:180 Resp: 40632

Ion Ratio Lower Upper

180 100

182 89.5 47.5 142.6

145 43.2 15.7 47.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

