

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\  
 Data File : VD062681.D  
 Acq On : 12 Jun 2019 18:25  
 Operator : VA/AP  
 Sample : K3294-01RE  
 Misc : 4.72g/5ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 13 07:25:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 2019  
 Response via : Initial Calibration

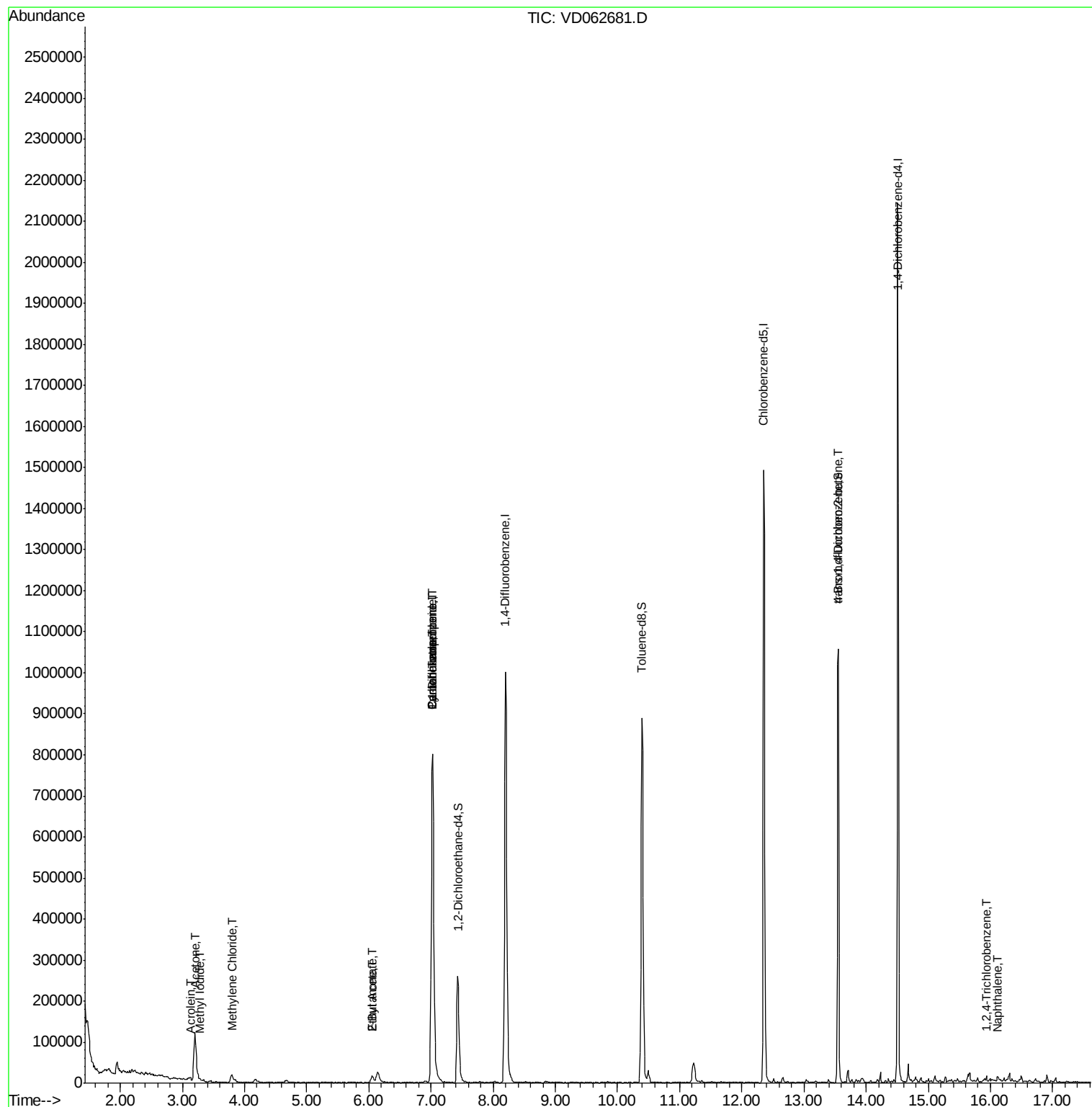
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.03  | 168  | 775037   | 50.00     | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene        | 8.20  | 114  | 1064411  | 50.00     | ug/l   | -0.02    |
| 63) Chlorobenzene-d5           | 12.35 | 117  | 817694   | 50.00     | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4     | 14.51 | 152  | 442115   | 50.00     | ug/l   | -0.01    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 7.43  | 65   | 302969   | 27.09     | ug/l   | -0.02    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 54.18% |          |
| 35) Dibromofluoromethane       | 6.91  | 113  | 1789     | 0.16      | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 0.32%  |          |
| 50) Toluene-d8                 | 10.39 | 98   | 725738   | 30.73     | ug/l   | -0.02    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 61.46% |          |
| 62) 4-Bromofluorobenzene       | 13.54 | 95   | 323484   | 29.36     | ug/l   | -0.01    |
| Spiked Amount 50.000           |       |      | Recovery | =         | 58.72% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane     | 1.57  | 85   | 1276     | Below Cal | #      | 42       |
| 10) Methyl Iodide              | 3.28  | 142  | 1720     | 4.123     | ug/l # | 50       |
| 13) Acrolein                   | 3.12  | 56   | 271      | 1.833     | ug/l   | 99       |
| 16) Acetone                    | 3.21  | 43   | 250293   | 122.218   | ug/l   | 95       |
| 20) Methylene Chloride         | 3.79  | 84   | 11803    | 1.093     | ug/l # | 84       |
| 25) 2-Butanone                 | 6.05  | 43   | 36416    | 18.227    | ug/l # | 78       |
| 31) Cyclohexane                | 7.03  | 56   | 18187    | 2.061     | ug/l # | 19       |
| 36) 1,1-Dichloropropene        | 7.02  | 75   | 65185    | 5.351     | ug/l # | 52       |
| 37) Ethyl Acetate              | 6.05  | 43   | 36416    | 8.043     | ug/l # | 74       |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 78166    | 4.059     | ug/l # | 16       |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 155707   | 84.659    | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene     | 15.93 | 180  | 1832     | 3.718     | ug/l   | 85       |
| 95) Naphthalene                | 16.12 | 128  | 7732     | 3.898     | ug/l   | 98       |

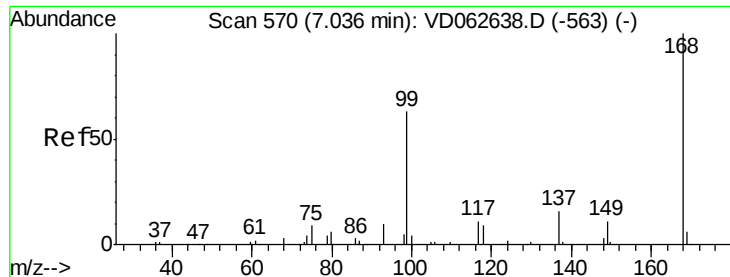
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061219\  
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Sample : K3294-01RE  
Misc : 4.72g/5ml/MSVOA D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jun 13 07:25:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 00:02:21 2019  
Response via : Initial Calibration

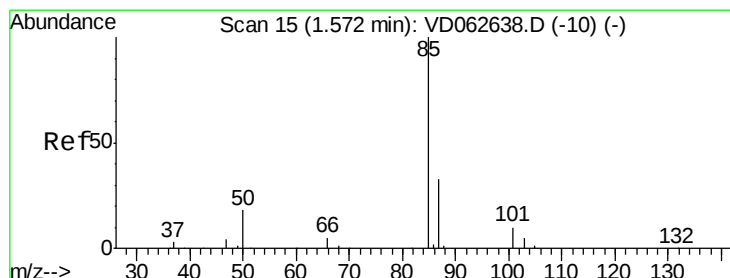
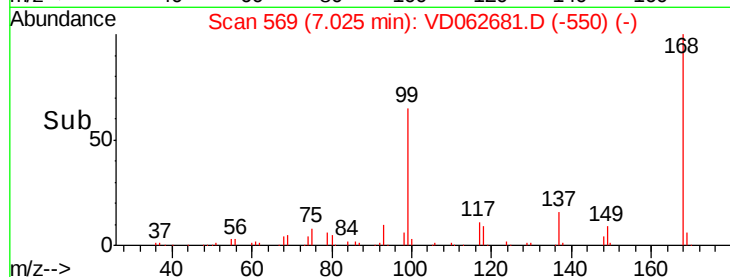
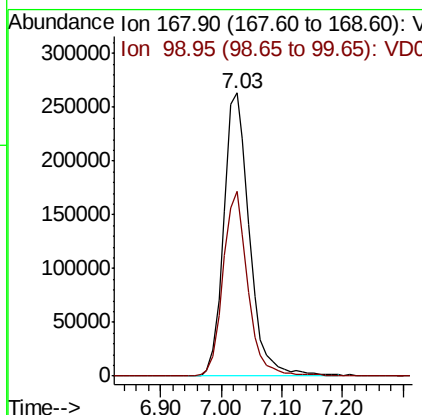
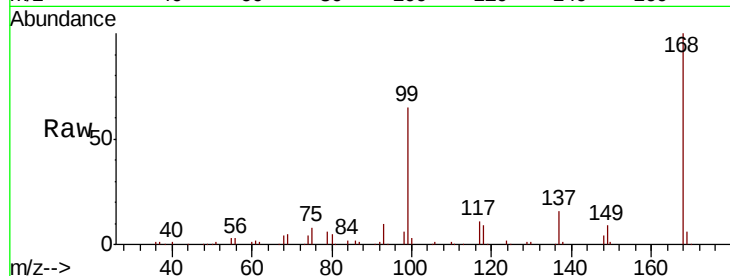




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.03 min Scan# 569  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

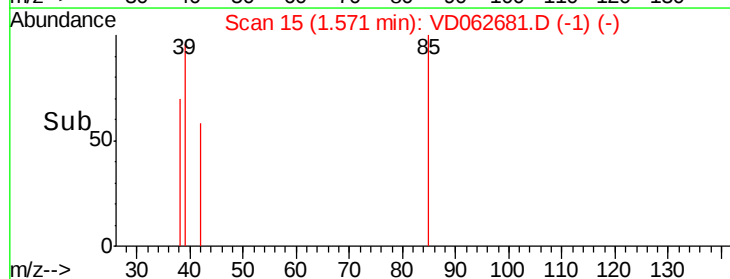
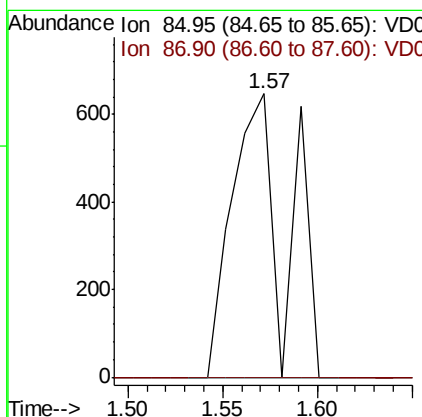
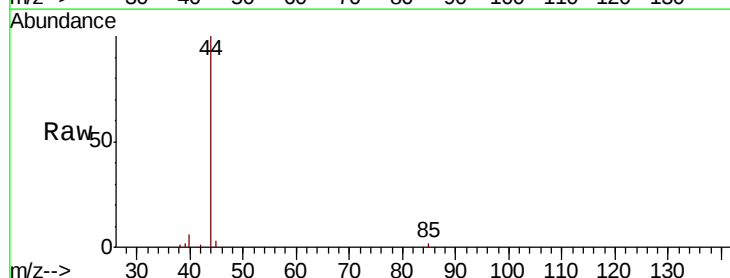
Instrument :  
MSVOA\_D  
ClientSampleId :

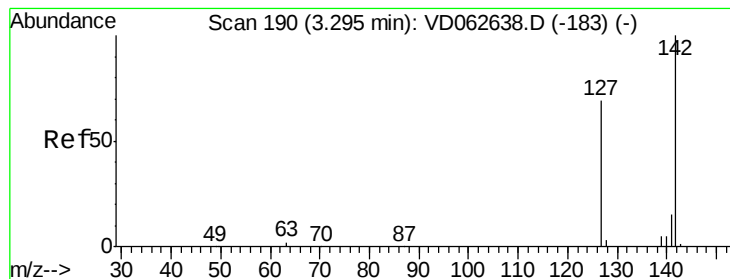
Tot Ion:168 Resp: 775037  
Ion Ratio Lower Upper  
168 100  
99 65.2 51.4 77.2



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.57 min Scan# 15  
Delta R.T. 0.00 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion: 85 Resp: 1276  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.6 49.7#





#10

Methvl Iodide

Concen: 4.123 ug/l

RT: 3.28 min Scan# 189

Delta R.T. -0.01 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

Instrument :

MSVOA\_D

ClientSampleId :

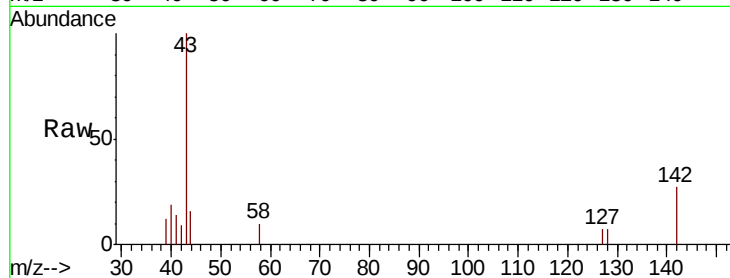
Tot Ion:142 Resp: 1720

Ion Ratio Lower Upper

142 100

127 25.6 55.2 82.8#

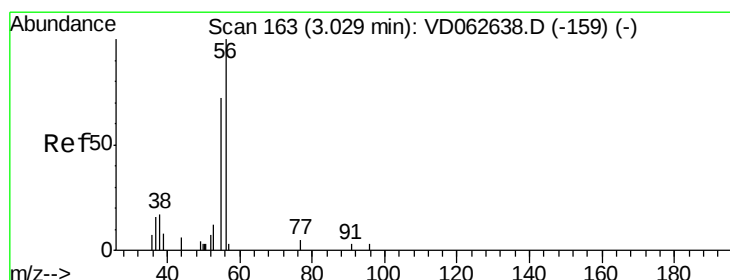
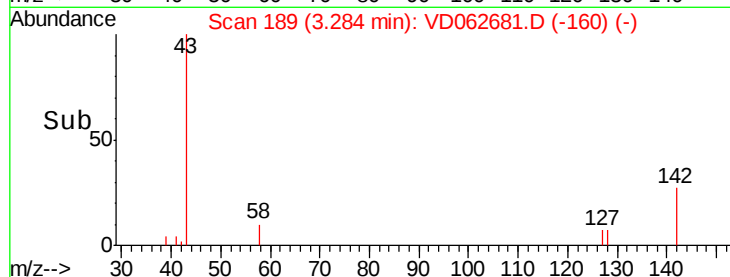
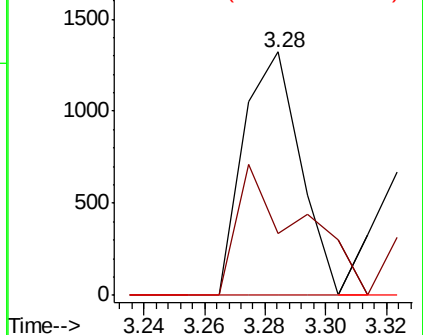
141 0.0 12.1 18.1#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#13

Acrolein

Concen: 1.833 ug/l

RT: 3.12 min Scan# 172

Delta R.T. 0.09 min

Lab File: VD062681.D

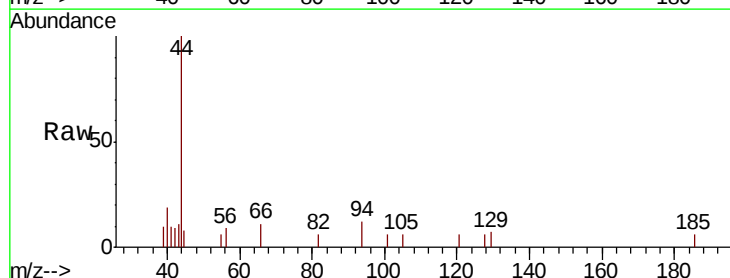
Acq: 12 Jun 2019 18:25

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

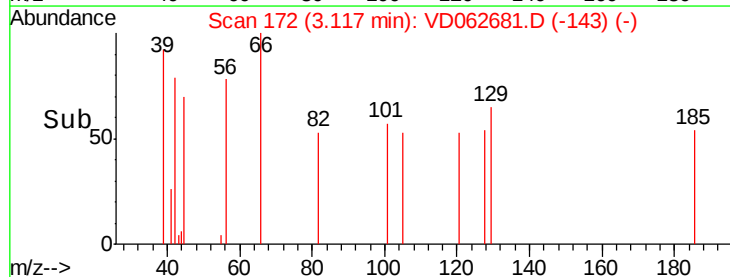
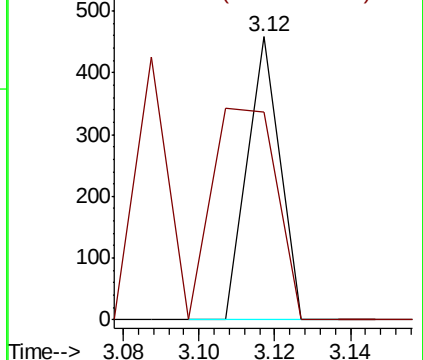
56 100

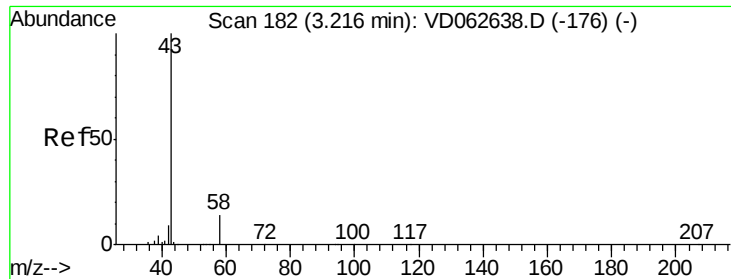
55 73.4 59.4 89.0



Abundance Ion 55.95 (55.65 to 56.65): V

Ion 55.00 (54.70 to 55.70): V

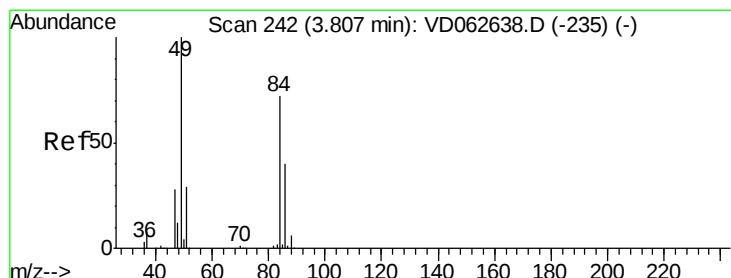
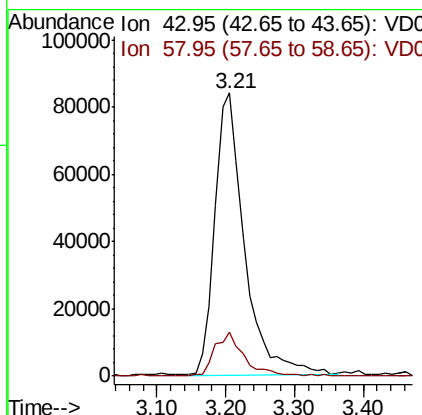
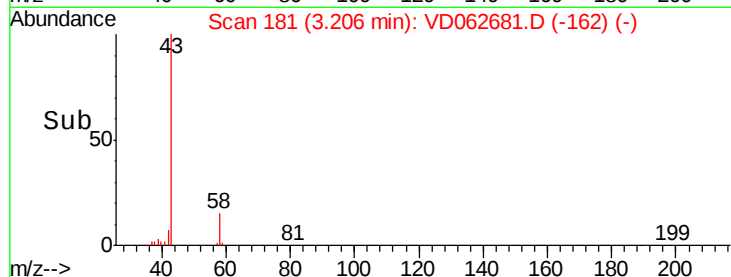
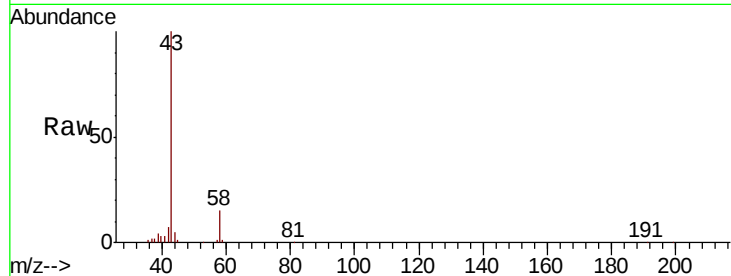




#16  
Acetone  
Concen: 122.218 ug/l  
RT: 3.21 min Scan# 181  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

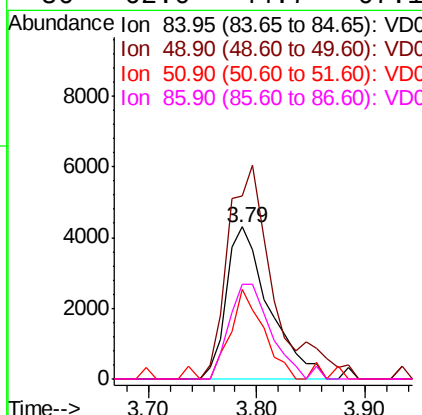
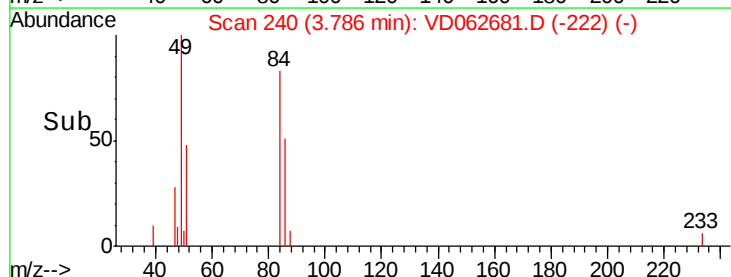
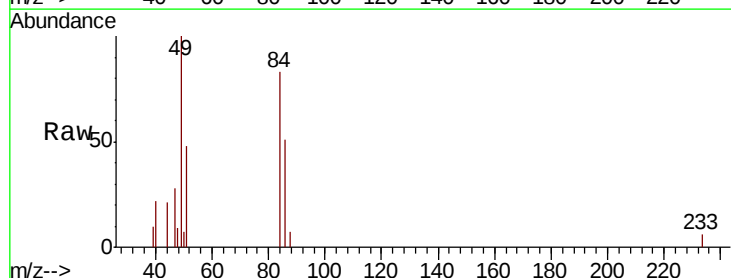
Instrument :  
MSVOA\_D  
ClientSampleId :

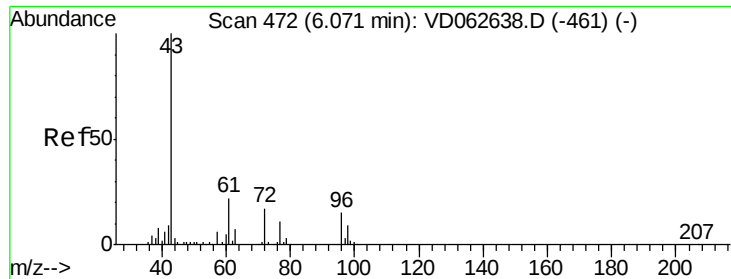
Tot Ion: 43 Resp: 250293  
Ion Ratio Lower Upper  
43 100  
58 15.4 10.8 16.2



#20  
Methylene Chloride  
Concen: 1.093 ug/l  
RT: 3.79 min Scan# 240  
Delta R.T. -0.02 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion: 84 Resp: 11803  
Ion Ratio Lower Upper  
84 100  
49 120.9 111.2 166.8  
51 58.6 31.9 47.9#  
86 62.0 44.7 67.1





#25

2-Butanone

Concen: 18.227 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.02 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

Instrument :

MSVOA\_D

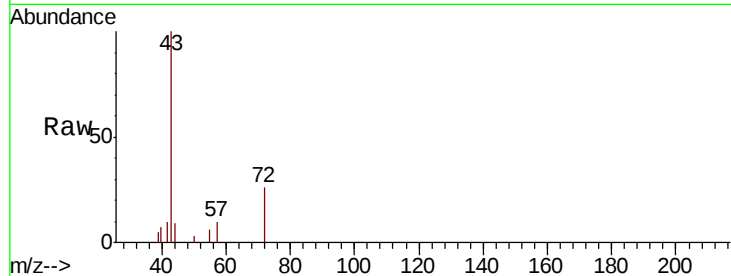
ClientSampled :

Tot Ion: 43 Resp: 36416

Ion Ratio Lower Upper

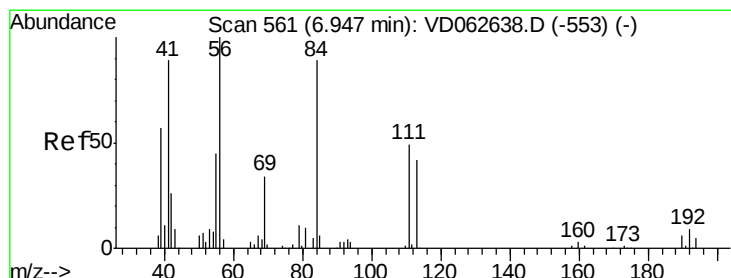
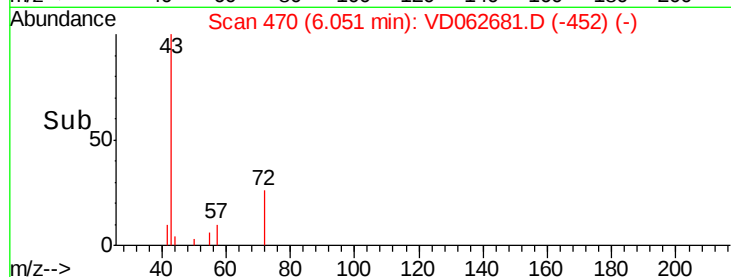
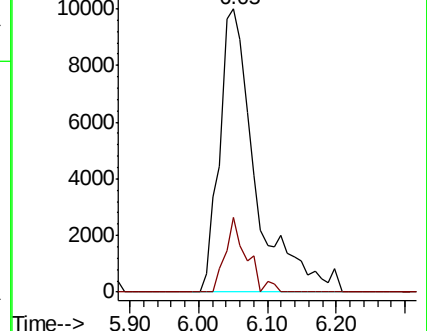
43 100

72 26.3 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.061 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.08 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

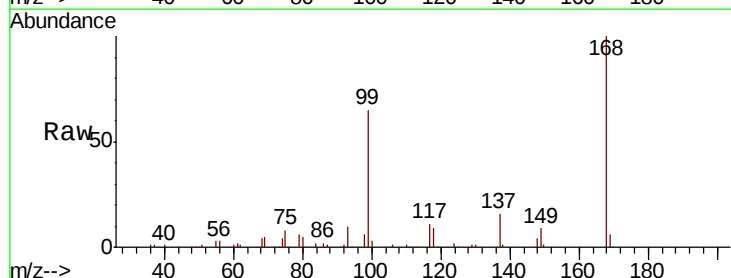
Tgt Ion: 56 Resp: 18187

Ion Ratio Lower Upper

56 100

69 154.5 26.8 40.2#

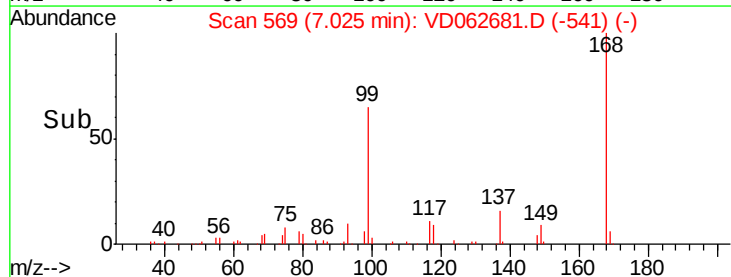
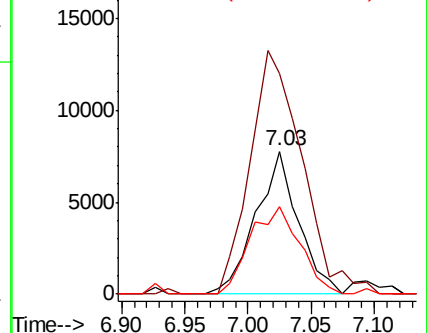
84 61.0 73.9 110.9#

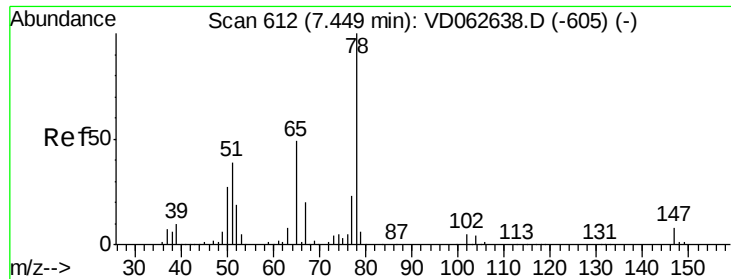


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 27.090 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.02 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

Instrument :

MSVOA\_D

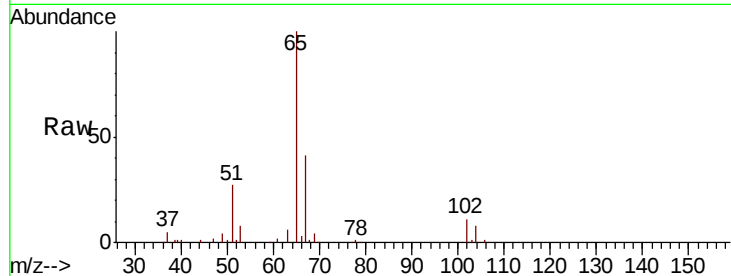
ClientSampleId :

Tot Ion: 65 Resp: 302969

Ion Ratio Lower Upper

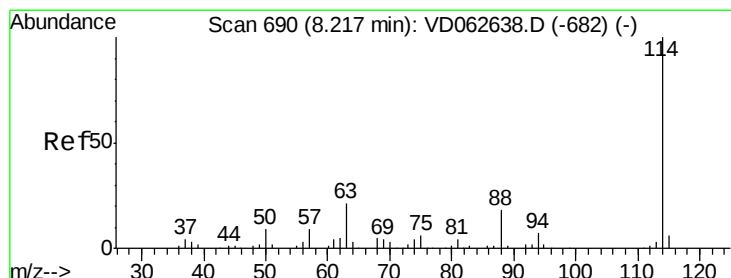
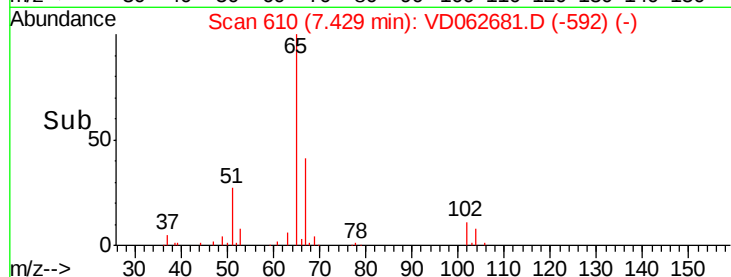
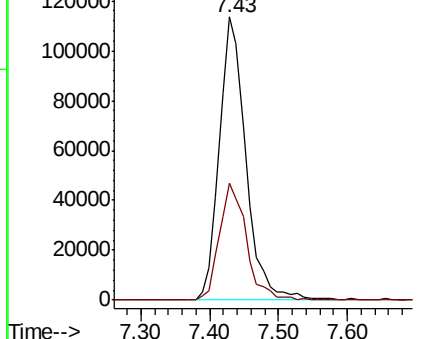
65 100

67 41.3 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. -0.02 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

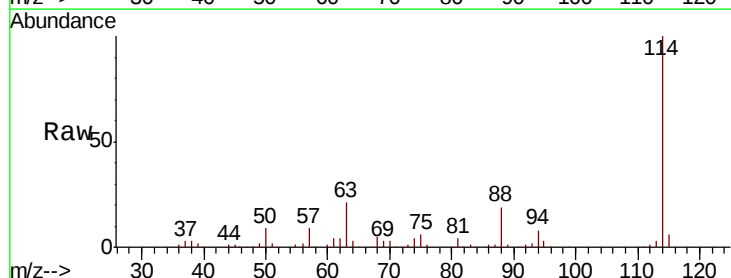
Tgt Ion: 114 Resp: 1064411

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

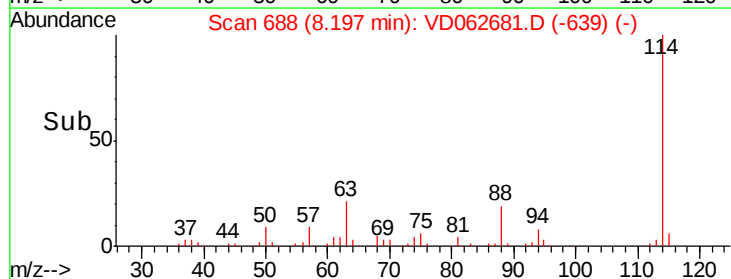
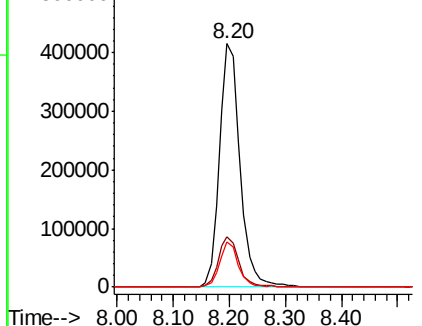
88 18.6 0.0 36.8

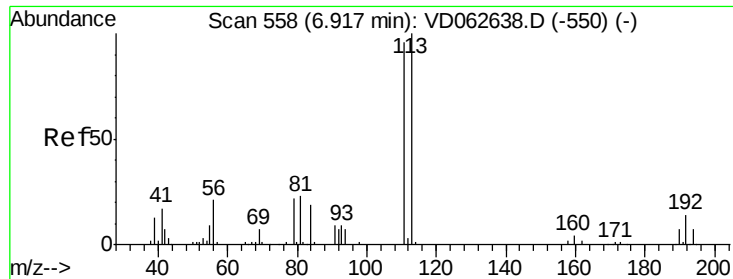


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 0.159 ug/l

RT: 6.91 min Scan# 557

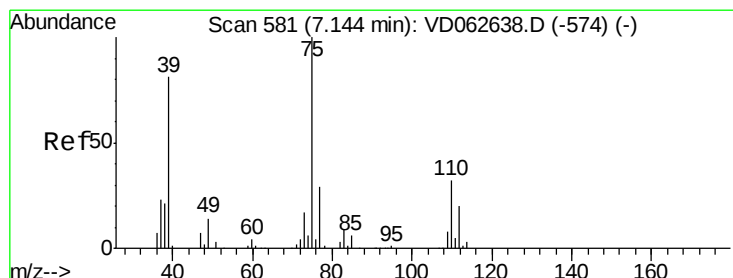
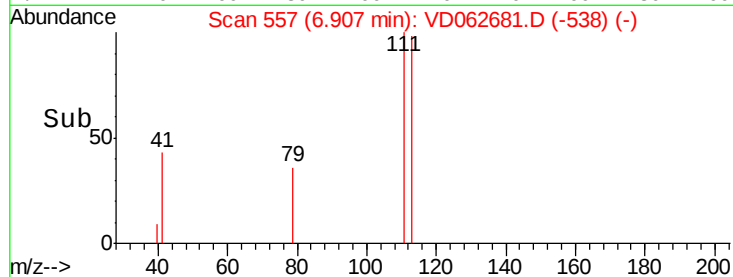
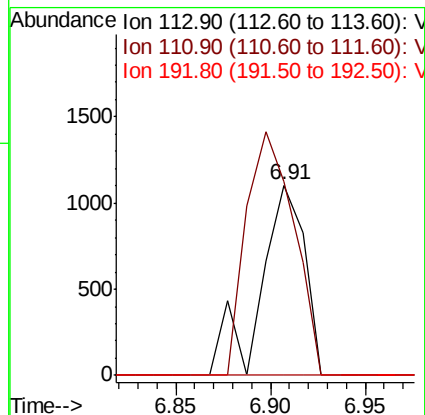
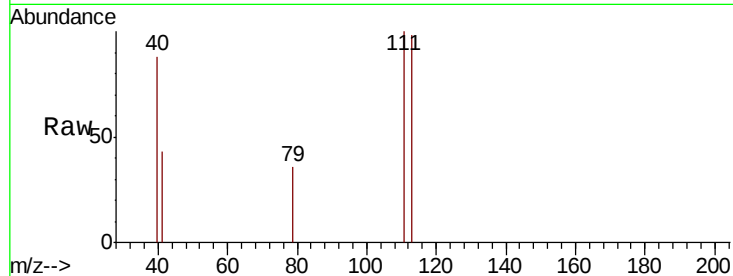
Delta R.T. -0.01 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:113 Resp: 1789  
Ion Ratio Lower Upper  
113 100  
111 102.2 76.4 114.6  
192 0.0 11.4 17.0#



#36

1,1-Dichloropropene

Concen: 5.351 ug/l

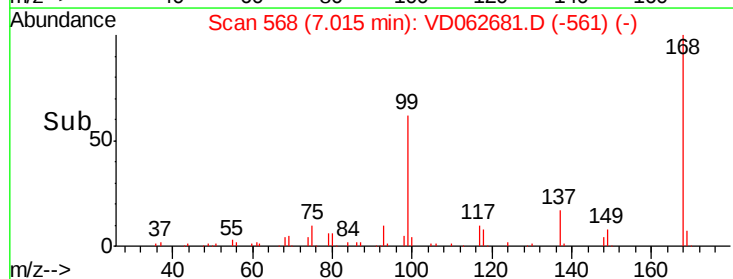
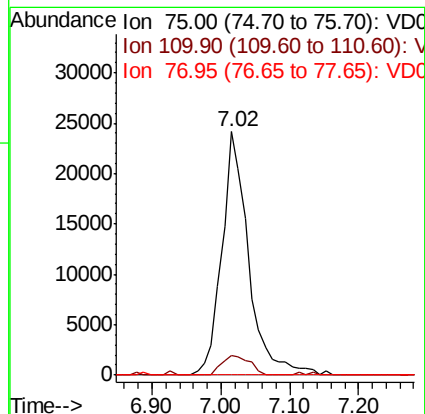
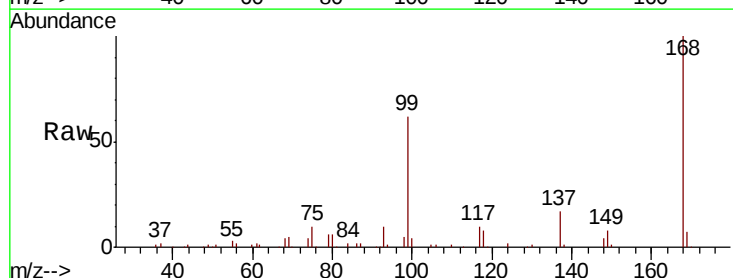
RT: 7.02 min Scan# 568

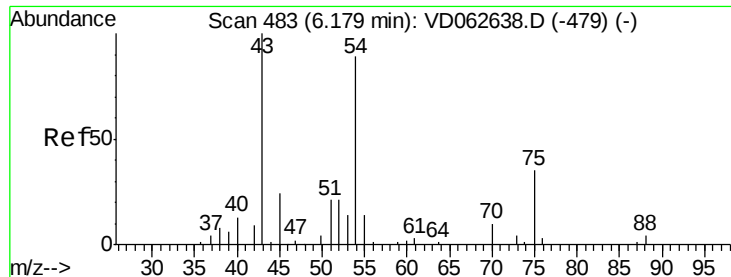
Delta R.T. -0.13 min

Lab File: VD062681.D

Acq: 12 Jun 2019 18:25

Tgt Ion: 75 Resp: 65185  
Ion Ratio Lower Upper  
75 100  
110 8.2 15.9 47.7#  
77 0.0 23.3 34.9#

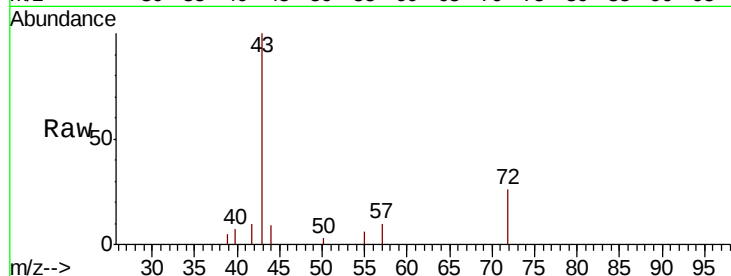




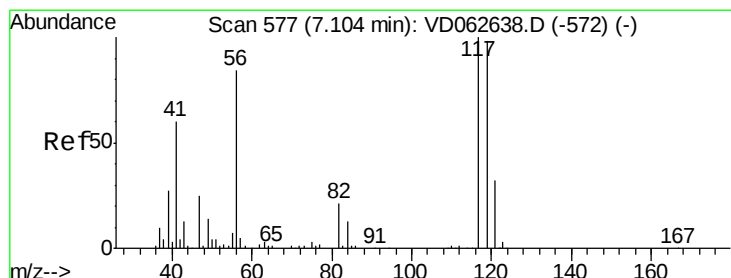
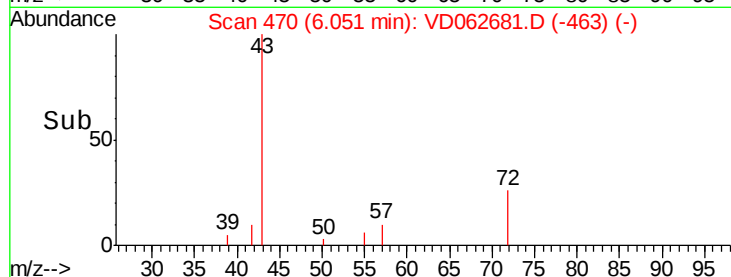
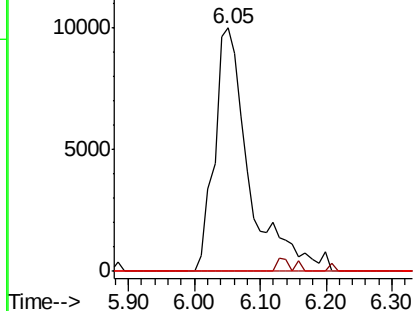
#37  
Ethyl Acetate  
Concen: 8.043 ug/l  
RT: 6.05 min Scan# 470  
Delta R.T. -0.13 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 36416  
Ion Ratio Lower Upper  
43 100  
61 0.0 8.7 13.1#  
70 0.0 6.5 9.7#

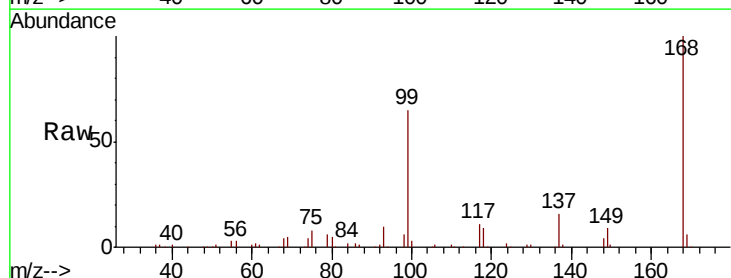


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC

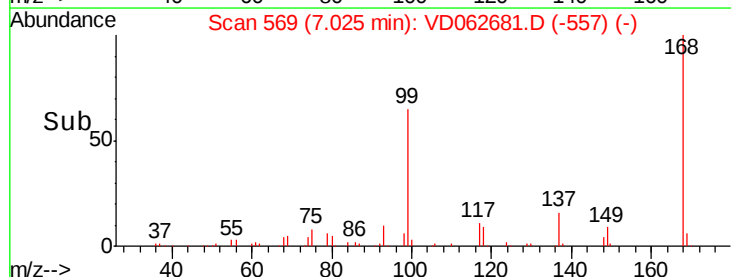
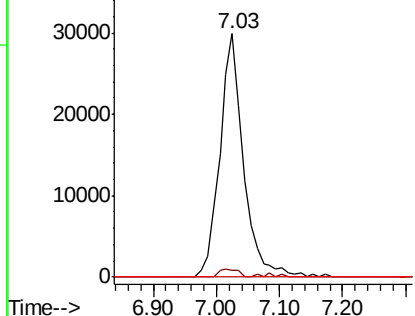


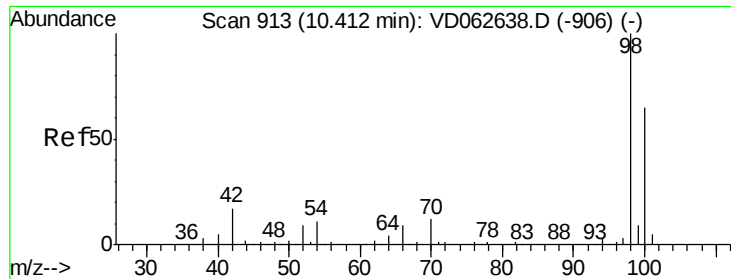
#38  
Carbon Tetrachloride  
Concen: 4.059 ug/l  
RT: 7.03 min Scan# 569  
Delta R.T. -0.08 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion: 117 Resp: 78166  
Ion Ratio Lower Upper  
117 100  
119 2.7 73.5 110.3#  
121 0.0 24.2 36.4#



Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

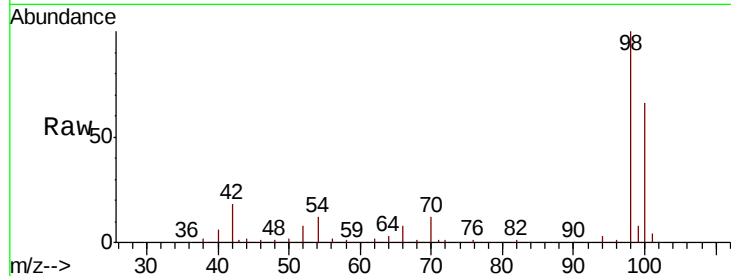




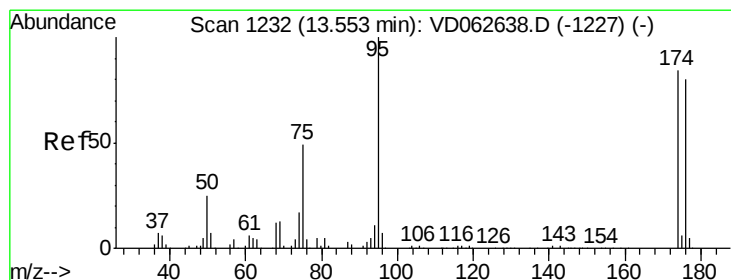
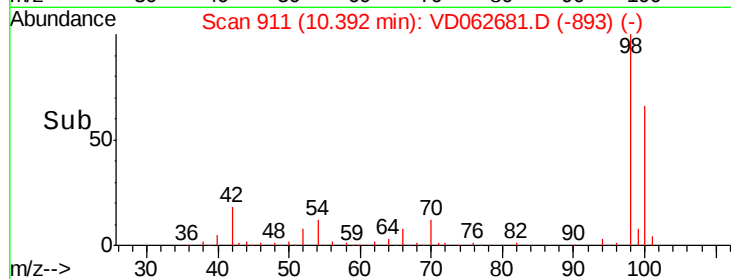
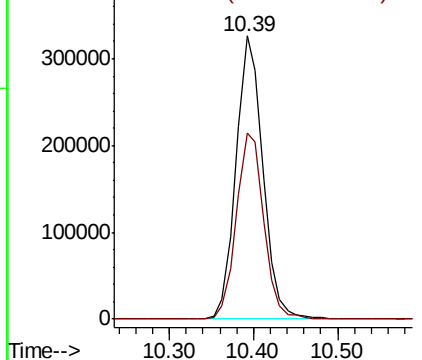
#50  
Toluene-d8  
Concen: 30.732 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. -0.02 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 725738  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.1 78.1

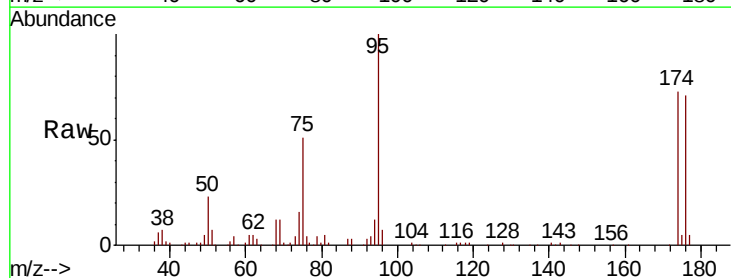


Abundance Ion 98.05 (97.75 to 98.75): VD  
Ion 100.05 (99.75 to 100.75): VD

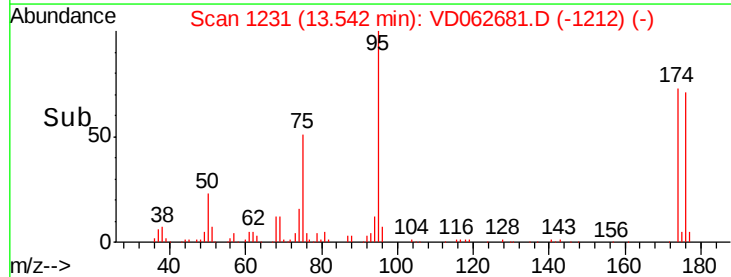
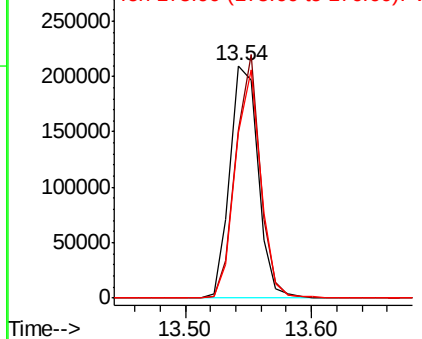


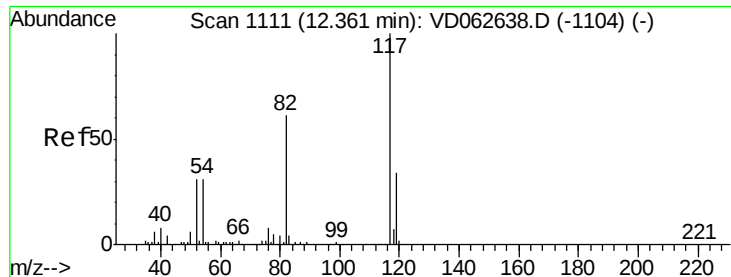
#62  
4-Bromofluorobenzene  
Concen: 29.362 ug/l  
RT: 13.54 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion: 95 Resp: 323484  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 167.0  
176 71.0 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VD  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

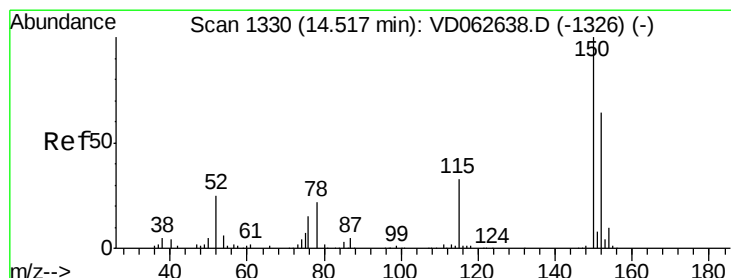
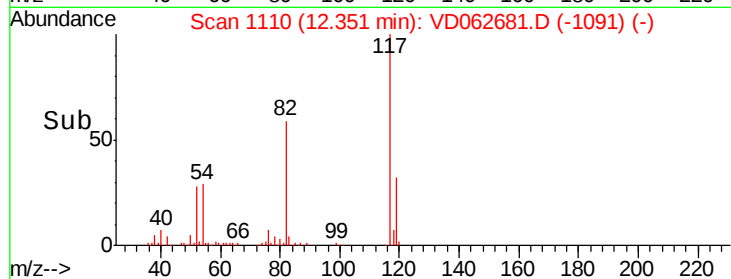
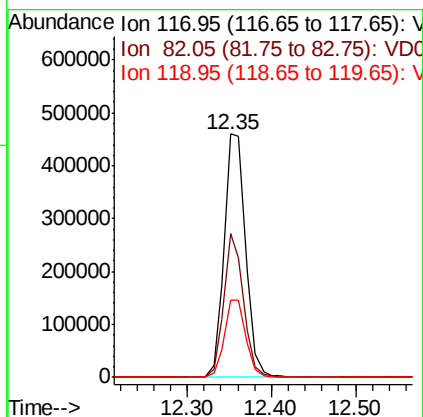
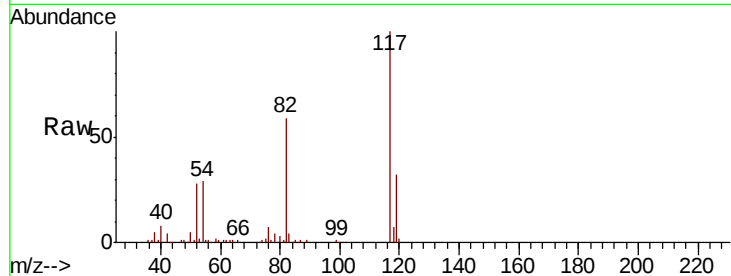




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.35 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

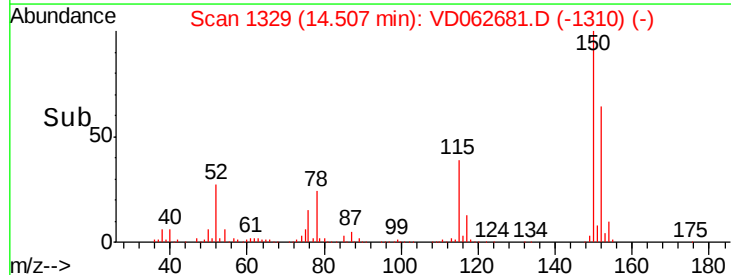
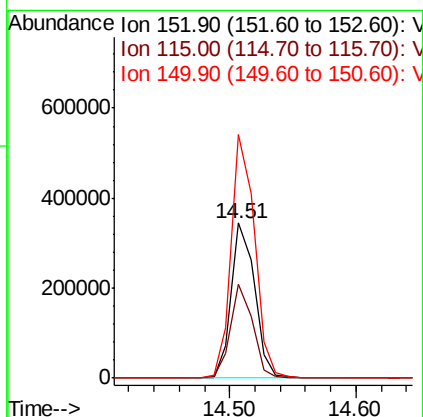
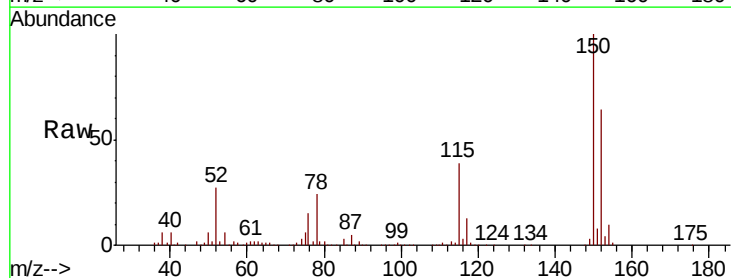
Instrument :  
MSVOA\_D  
ClientSampleId :

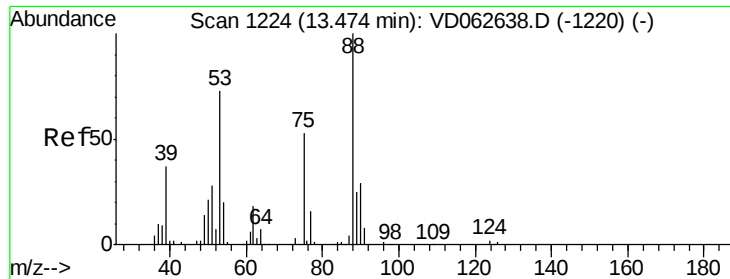
Tot Ion:117 Resp: 817694  
Ion Ratio Lower Upper  
117 100  
82 58.9 48.7 73.1  
119 31.6 27.0 40.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion:152 Resp: 442115  
Ion Ratio Lower Upper  
152 100  
115 60.7 30.1 90.5  
150 156.9 0.0 314.0

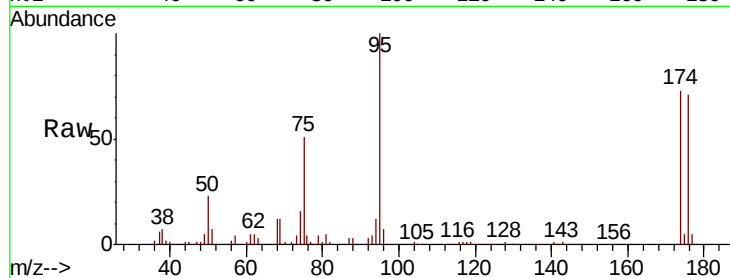




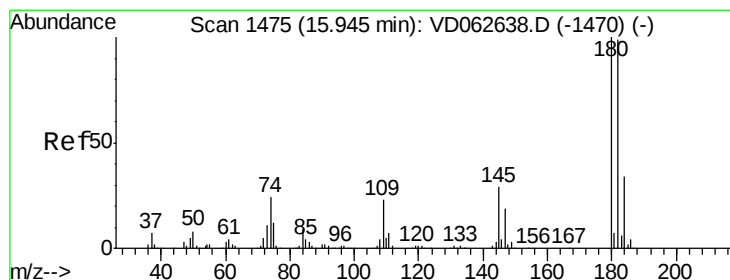
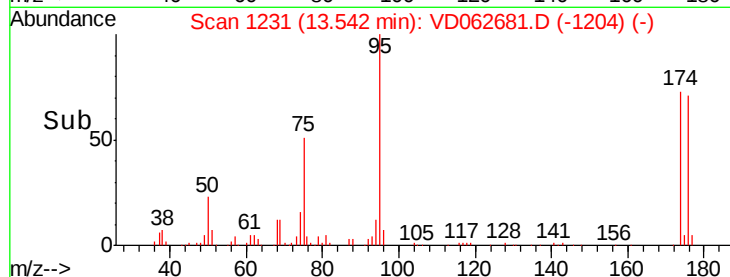
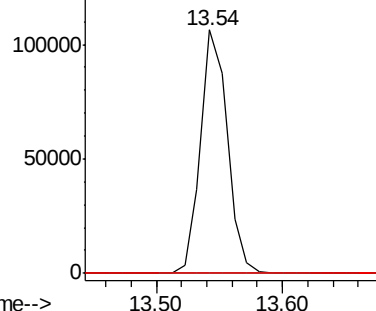
#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.659 ug/l  
RT: 13.54 min Scan# 1231  
Delta R.T. 0.07 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 75 Resp: 155707  
Ion Ratio Lower Upper  
75 100  
53 0.0 109.4 164.2#  
89 0.0 37.0 55.6#

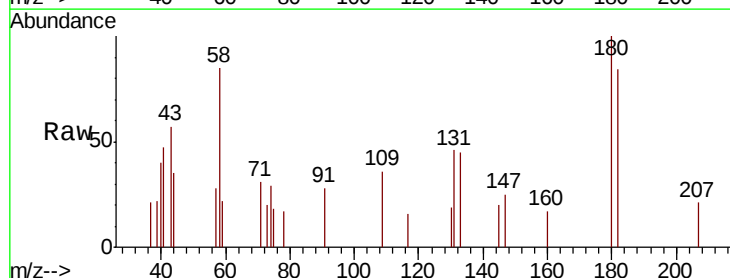


Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC

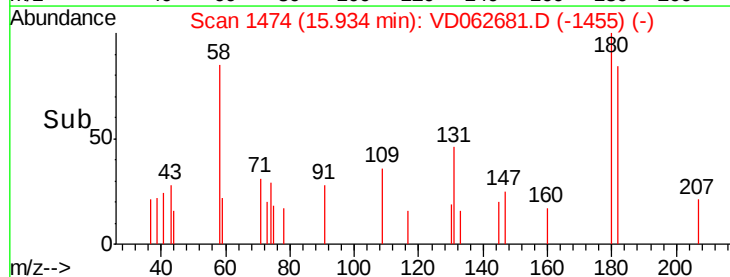
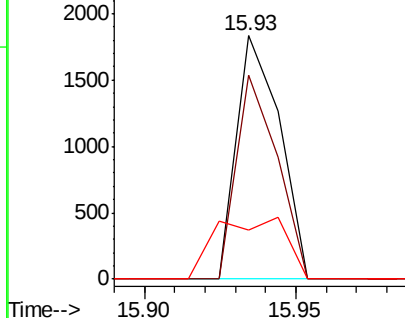


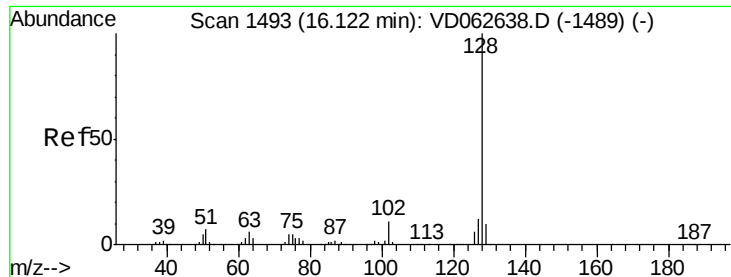
#93  
1,2,4-Trichlorobenzene  
Concen: 3.718 ug/l  
RT: 15.93 min Scan# 1474  
Delta R.T. -0.01 min  
Lab File: VD062681.D  
Acq: 12 Jun 2019 18:25

Tgt Ion:180 Resp: 1832  
Ion Ratio Lower Upper  
180 100  
182 83.8 49.4 148.2  
145 20.3 14.5 43.6



Abundance Ion 179.85 (179.55 to 180.55): V  
Ion 181.85 (181.55 to 182.55): V  
Ion 144.95 (144.65 to 145.65): V

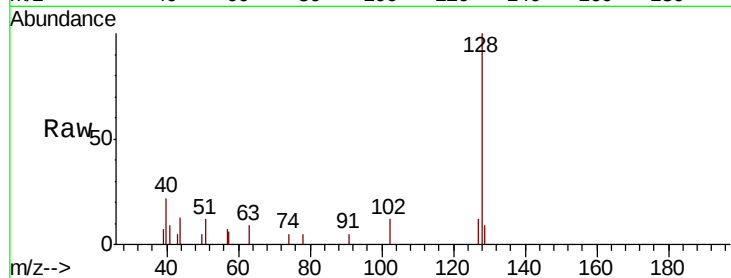




#95  
 Naphthalene  
 Concen: 3.898 ug/l  
 RT: 16.12 min Scan# 1493  
 Delta R.T. 0.00 min  
 Lab File: VD062681.D  
 Acq: 12 Jun 2019 18:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:128 Resp: 7732  
 Ion Ratio Lower Upper  
 128 100  
 127 11.5 9.7 14.5  
 129 9.0 8.1 12.1



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 127.00 (126.70 to 127.70): V  
 Ion 129.00 (128.70 to 129.70): V

