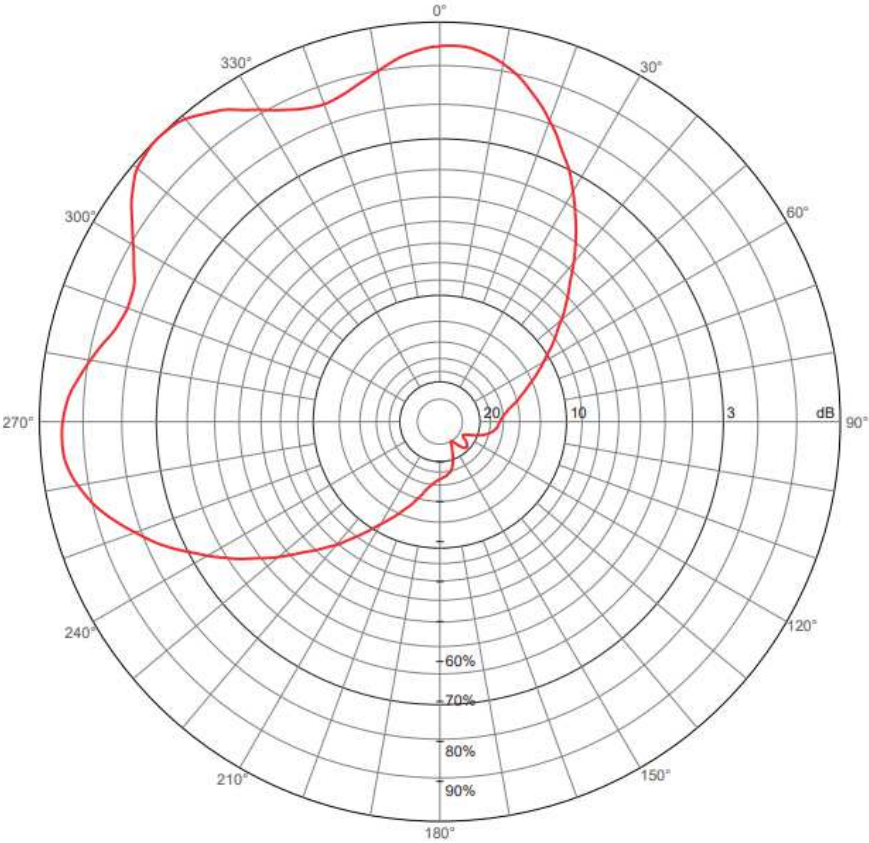


Estación Itagui Canal Regional

Azimuthal Pattern (polar-linear)



|  | Azimuthal Pattern |       |       |        |       |        |       |        |       |        |       |       |       |       |       |       |
|--|-------------------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
|  | Angle             | dB    | Angle | dB     | Angle | dB     | Angle | dB     | Angle | dB     | Angle | dB    | Angle | dB    | Angle | dB    |
|  | 0                 | -0.54 | 45    | -6.86  | 90    | -16.48 | 135   | -20.71 | 180   | -16.83 | 225   | -6.78 | 270   | -0.52 | 315   | 0     |
|  | 1                 | -0.53 | 46    | -7.09  | 91    | -16.57 | 136   | -20.83 | 181   | -16.77 | 226   | -6.56 | 271   | -0.54 | 316   | -0.01 |
|  | 2                 | -0.53 | 47    | -7.32  | 92    | -16.63 | 137   | -21.04 | 182   | -16.67 | 227   | -6.31 | 272   | -0.57 | 317   | -0.02 |
|  | 3                 | -0.53 | 48    | -7.54  | 93    | -16.66 | 138   | -21.26 | 183   | -16.54 | 228   | -6.06 | 273   | -0.6  | 318   | -0.03 |
|  | 4                 | -0.54 | 49    | -7.77  | 94    | -16.71 | 139   | -21.49 | 184   | -16.44 | 229   | -5.81 | 274   | -0.64 | 319   | -0.05 |
|  | 5                 | -0.56 | 50    | -8.05  | 95    | -16.78 | 140   | -21.76 | 185   | -16.34 | 230   | -5.57 | 275   | -0.7  | 320   | -0.1  |
|  | 6                 | -0.6  | 51    | -8.32  | 96    | -16.88 | 141   | -22.09 | 186   | -16.19 | 231   | -5.33 | 276   | -0.77 | 321   | -0.16 |
|  | 7                 | -0.65 | 52    | -8.56  | 97    | -16.99 | 142   | -22.47 | 187   | -16.02 | 232   | -5.12 | 277   | -0.84 | 322   | -0.23 |
|  | 8                 | -0.69 | 53    | -8.77  | 98    | -17.1  | 143   | -22.94 | 188   | -15.85 | 233   | -4.92 | 278   | -0.91 | 323   | -0.3  |
|  | 9                 | -0.75 | 54    | -8.99  | 99    | -17.23 | 144   | -23.39 | 189   | -15.68 | 234   | -4.7  | 279   | -0.98 | 324   | -0.36 |
|  | 10                | -0.82 | 55    | -9.22  | 100   | -17.36 | 145   | -23.78 | 190   | -15.48 | 235   | -4.46 | 280   | -1.05 | 325   | -0.43 |
|  | 11                | -0.9  | 56    | -9.47  | 101   | -17.52 | 146   | -24.05 | 191   | -15.27 | 236   | -4.24 | 281   | -1.12 | 326   | -0.51 |
|  | 12                | -0.97 | 57    | -9.74  | 102   | -17.7  | 147   | -24.31 | 192   | -15.03 | 237   | -4.05 | 282   | -1.19 | 327   | -0.62 |
|  | 13                | -1.06 | 58    | -10.02 | 103   | -17.89 | 148   | -24.64 | 193   | -14.75 | 238   | -3.86 | 283   | -1.27 | 328   | -0.73 |
|  | 14                | -1.17 | 59    | -10.26 | 104   | -18.1  | 149   | -24.94 | 194   | -14.46 | 239   | -3.65 | 284   | -1.35 | 329   | -0.81 |
|  | 15                | -1.29 | 60    | -10.47 | 105   | -18.37 | 150   | -25.03 | 195   | -14.21 | 240   | -3.47 | 285   | -1.43 | 330   | -0.9  |
|  | 16                | -1.41 | 61    | -10.7  | 106   | -18.66 | 151   | -24.88 | 196   | -13.98 | 241   | -3.3  | 286   | -1.49 | 331   | -0.99 |
|  | 17                | -1.52 | 62    | -10.96 | 107   | -18.92 | 152   | -24.58 | 197   | -13.71 | 242   | -3.12 | 287   | -1.53 | 332   | -1.08 |
|  | 18                | -1.64 | 63    | -11.21 | 108   | -19.23 | 153   | -24.14 | 198   | -13.42 | 243   | -2.93 | 288   | -1.57 | 333   | -1.16 |
|  | 19                | -1.78 | 64    | -11.44 | 109   | -19.59 | 154   | -23.58 | 199   | -13.15 | 244   | -2.74 | 289   | -1.6  | 334   | -1.23 |
|  | 20                | -1.92 | 65    | -11.69 | 110   | -19.99 | 155   | -23.01 | 200   | -12.93 | 245   | -2.56 | 290   | -1.62 | 335   | -1.29 |
|  | 21                | -2.06 | 66    | -11.97 | 111   | -20.42 | 156   | -22.47 | 201   | -12.72 | 246   | -2.4  | 291   | -1.61 | 336   | -1.35 |
|  | 22                | -2.2  | 67    | -12.23 | 112   | -20.87 | 157   | -21.93 | 202   | -12.5  | 247   | -2.24 | 292   | -1.6  | 337   | -1.39 |
|  | 23                | -2.37 | 68    | -12.46 | 113   | -21.34 | 158   | -21.41 | 203   | -12.25 | 248   | -2.1  | 293   | -1.59 | 338   | -1.42 |
|  | 24                | -2.54 | 69    | -12.68 | 114   | -21.8  | 159   | -20.9  | 204   | -11.99 | 249   | -1.96 | 294   | -1.56 | 339   | -1.45 |
|  | 25                | -2.69 | 70    | -12.91 | 115   | -22.24 | 160   | -20.41 | 205   | -11.73 | 250   | -1.83 | 295   | -1.5  | 340   | -1.46 |
|  | 26                | -2.83 | 71    | -13.15 | 116   | -22.64 | 161   | -19.95 | 206   | -11.5  | 251   | -1.69 | 296   | -1.42 | 341   | -1.45 |
|  | 27                | -2.98 | 72    | -13.39 | 117   | -22.94 | 162   | -19.57 | 207   | -11.28 | 252   | -1.56 | 297   | -1.33 | 342   | -1.43 |
|  | 28                | -3.15 | 73    | -13.61 | 118   | -23.15 | 163   | -19.21 | 208   | -11.04 | 253   | -1.43 | 298   | -1.25 | 343   | -1.4  |
|  | 29                | -3.35 | 74    | -13.79 | 119   | -23.35 | 164   | -18.84 | 209   | -10.79 | 254   | -1.3  | 299   | -1.17 | 344   | -1.36 |
|  | 30                | -3.54 | 75    | -14    | 120   | -23.5  | 165   | -18.51 | 210   | -10.55 | 255   | -1.19 | 300   | -1.07 | 345   | -1.31 |
|  | 31                | -3.74 | 76    | -14.25 | 121   | -23.46 | 166   | -18.26 | 211   | -10.32 | 256   | -1.08 | 301   | -0.96 | 346   | -1.25 |
|  | 32                | -3.94 | 77    | -14.51 | 122   | -23.28 | 167   | -18.05 | 212   | -10.05 | 257   | -0.98 | 302   | -0.86 | 347   | -1.19 |
|  | 33                | -4.14 | 78    | -14.77 | 123   | -23.19 | 168   | -17.87 | 213   | -9.76  | 258   | -0.9  | 303   | -0.76 | 348   | -1.13 |
|  | 34                | -4.34 | 79    | -15    | 124   | -22.96 | 169   | -17.73 | 214   | -9.5   | 259   | -0.82 | 304   | -0.65 | 349   | -1.07 |
|  | 35                | -4.54 | 80    | -15.21 | 125   | -22.51 | 170   | -17.65 | 215   | -9.23  | 260   | -0.74 | 305   | -0.53 | 350   | -1    |
|  | 36                | -4.75 | 81    | -15.38 | 126   | -22.07 | 171   | -17.57 | 216   | -8.97  | 261   | -0.67 | 306   | -0.43 | 351   | -0.94 |
|  | 37                | -4.98 | 82    | -15.54 | 127   | -21.7  | 172   | -17.44 | 217   | -8.72  | 262   | -0.61 | 307   | -0.35 | 352   | -0.87 |
|  | 38                | -5.21 | 83    | -15.72 | 128   | -21.41 | 173   | -17.32 | 218   | -8.45  | 263   | -0.57 | 308   | -0.26 | 353   | -0.8  |
|  | 39                | -5.44 | 84    | -15.88 | 129   | -21.25 | 174   | -17.25 | 219   | -8.15  | 264   | -0.53 | 309   | -0.18 | 354   | -0.74 |
|  | 40                | -5.67 | 85    | -16    | 130   | -21.13 | 175   | -17.18 | 220   | -7.9   | 265   | -0.5  | 310   | -0.12 | 355   | -0.69 |
|  | 41                | -5.92 | 86    | -16.12 | 131   | -20.93 | 176   | -17.12 | 221   | -7.7   | 266   | -0.49 | 311   | -0.08 | 356   | -0.65 |
|  | 42                | -6.18 | 87    | -16.24 | 132   | -20.73 | 177   | -17.05 | 222   | -7.48  | 267   | -0.49 | 312   | -0.06 | 357   | -0.61 |
|  | 43                | -6.44 | 88    | -16.32 | 133   | -20.67 | 178   | -16.97 | 223   | -7.22  | 268   | -0.49 | 313   | -0.03 | 358   | -0.58 |
|  | 44                | -6.65 | 89    | -16.39 | 134   | -20.68 | 179   | -16.9  | 224   | -6.99  | 269   | -0.5  | 314   | -0.01 | 359   | -0.55 |

## Propiedades del transmisor

| Transmisor            |                                     |
|-----------------------|-------------------------------------|
| Nombre:               | <input type="text" value="Itagui"/> |
| Identificador de red: | <input type="text"/>                |

| Emplazamiento                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emplazamiento:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="text"/>   |
| Coordenadas       |                                                                                                                                                                                          |
| Latitud:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input n"="" type="text" value="06°08'36.20"/>                                                                                                                                           |
| Longitud:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="text" value="075°36'05.40" w"=""/>                                                                                                                                          |

| Parámetros de radio                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                     |             |                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------|
| Antena:                                                                                                                                                                                     | <input type="text" value="DVB-T2 15.85 dBi"/>    |             |                                                                                                 |
| Altura antena:                                                                                                                                                                              | <input type="text" value="27"/> m                                                                                                                                                                                                                                                                   |             |                                                                                                 |
| Orientación:                                                                                                                                                                                | <input type="text" value="0"/> [0,359]                                                                                                                                                                                                                                                              |             |                                                                                                 |
| Inclinación:                                                                                                                                                                                | <input type="text" value="0"/> [-90,90]                                                                                                                                                                                                                                                             |             |                                                                                                 |
| Frecuencias de transmisión                                                                               |                                                                                                                                                                                                                                                                                                     |             |                                                                                                 |
| <table><thead><tr><th>Frecuencias</th></tr></thead><tbody><tr><td>495.250 MHz </td></tr></tbody></table> |                                                                                                                                                                                                                                                                                                     | Frecuencias | 495.250 MHz  |
| Frecuencias                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                     |             |                                                                                                 |
| 495.250 MHz                                                                                              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                 |
| Polarización:                                                                                                                                                                               | <input type="text" value="Horizontal"/> ▼                                                                                                                                                                                                                                                           |             |                                                                                                 |
| Feeder:                                                                                                                                                                                     | <input type="text"/>                                                                                                          |             |                                                                                                 |
| Longitud del feeder:                                                                                                                                                                        | <input type="text" value="0"/> m                                                                                                                                                                                                                                                                    |             |                                                                                                 |
| Pérdidas del feeder:                                                                                                                                                                        | <input type="text" value="0.00"/> dB                                                                                                                                                                             |             |                                                                                                 |
| Pérdidas pasivos:                                                                                                                                                                           | <input type="text" value="0"/> dB                                                                                                                                                                                                                                                                   |             |                                                                                                 |
| Potencia:                                                                                                                                                                                   | <input type="text" value="2390"/> W ▼                                                                                                                                                                                                                                                               |             |                                                                                                 |

| Parámetros de radiodifusión digital |                                   |
|-------------------------------------|-----------------------------------|
| Retardo:                            | <input type="text" value="0"/> μs |

Aceptar

Aplicar

Recargar

Cancelar

## Propiedades del Diagrama de Radiación

**Propiedades**

Tipo de diagrama: ☒ Copolar ☐ Xpolar

Polarización: 

Horizontal

Ganancia: 

15.85

 dBi

Frecuencia inicial: 

494

 MHz

Frecuencia final: 

500

 MHz

XPD 90: 

30

 dB

Ancho de haz: 

151

 °

Rel. delante/atrás: 

16.3

 dB

**Diagrama horizontal**

Diagrama horizontal

**Diagramas verticales**

No se ha definido ningún diagrama vertical

Aceptar

Aplicar

Recargar

Cancelar

## Propiedades del Diagrama de Radiación

 El diagrama de atenuaciones no tiene ningún valor 0.  
Los cálculos realizados con el mismo pueden ser erróneos.

### Diagrama horizontal

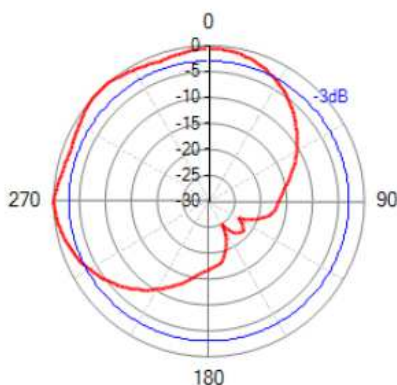
Azimut:

Atenuación: 

Añadir

| Azimut | Atenuación |             |
|--------|------------|-------------|
| 240.00 | -3.47      | <div></div> |
| 250.00 | -1.83      | <div></div> |
| 260.00 | -0.74      | <div></div> |
| 270.00 | 0.00       | <div></div> |
| 280.00 | -1.05      | <div></div> |
| 290.00 | -1.62      | <div></div> |
| 300.00 | -1.07      | <div></div> |
| 310.00 | -0.12      | <div></div> |
| 320.00 | -0.10      | <div></div> |
| 330.00 | -0.90      | <div></div> |
| 340.00 | -1.46      | <div></div> |
| 350.00 | -1.00      | <div></div> |

1 2 3



 Refrescar diagrama

Aceptar

Cancelar

