



## Antenne combinée 4x[5G 4G-LTE 3G/2G LPWA] IP69 traversante omnidirectionnelle | 1.2 à 4.7dBi

Référence GC-7183Bc

|                      |                 |
|----------------------|-----------------|
| Gain                 | 1.2dBi à 4.7dBi |
| Connecteurs          | SMA (M)         |
| Dimensions (mm)      | Ø 96 x H 130    |
| T° de fonctionnement | -40°C à +85°C   |

### COUVERTURE 5G MIMO ULTRA-FIABLE

L'antenne GC-7183Bc offre 4 antennes 5G NR-MIMO qui assurent une puissante couverture mondiale dans les fréquences 617 - 5925 MHz.

### ANTENNE 4 EN 1

Les câbles 1 à 4 sont dédiés aux appareils qui fonctionnent dans toutes les normes 5G NR, 4G-LTE, FirstNet, CBRS, LPWA, CAT-X, CAT-Mx, CAT-NBx, NB-IoT, 3G et 2G. Quatre antennes conçues avec un diagramme de rayonnement omnidirectionnel et une polarisation linéaire pour une puissance de signal maximale à 360 degrés. Chacune d'entre elle peut être utilisée dans n'importe quelle combinaison.

### INSTALLATION / ENVIRONNEMENT

Le boîtier robuste et résistant est fabriqué avec un matériau de haute qualité, l'acrylonitrile styrène acrylate (ASA), stable aux UV et connu pour ses propriétés de résistance thermique. La base de l'antenne est en alliage d'aluminium pour une durabilité maximale.

L'antenne est indépendante du plan de masse et la technologie de montage à vis permet de la verrouiller solidement sur son emplacement. Elle est livrée avec un connecteur SMA-Mâle et un câble LL195 de 300 cm en standard. Ces derniers sont personnalisables en fonction de besoins spécifiques.

Les indices d'étanchéité IP67 et IP69 confèrent à cette antenne une protection maximale contre la poussière et la pénétration d'eau, tandis que l'indice IK09 ajoute une sécurité supplémentaire anti-vandalisme, et une résistance élevée aux chocs.



## CARACTÉRISTIQUES

### Câble 1 : 2G/3G/4G/5G - IoT/LPWAN

| FRÉQUENCE(S) (MHZ)   | 617-960                                                                                    | 1427-2690                                                                                                                                                     | 3300-5000                    | 5150-5925            |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| BANDE(S) (MHZ)       | 600, 700, 850, 900                                                                         | 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600                                                                                                    | 3300, 3500, 3600, 3700, 4500 | 5200, 5500, 5800     |
| BANDES 5G NR         | n5, n8, 12, n20, n28, n71, n81, n82, n83,                                                  | n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86                                                                | n77, n78, n79                |                      |
| BANDES 4G-LTE        | B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85 | B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76 | B22, B42, B43, B48, B49, B52 | B46, B47, B252, B255 |
| BANDES 3G            | B5, B6, B8, B12, B13, B14, B19, B20, B26                                                   | B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40                                                                       | B22                          |                      |
| BANDES 2G            | 710, 750, 810T, 850, 900P, 900E, 900R                                                      | 1800DCS, 1900PCS                                                                                                                                              |                              |                      |
| BANDES CDMA          | BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19                                            | BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21                                                                                                        |                              |                      |
| PERTE DE RETOUR (DB) | ~-5,5                                                                                      | ~-12,2                                                                                                                                                        | ~-15,2                       | ~-14,2               |
| VSWR                 | ~3,7:1                                                                                     | ~2,0:1                                                                                                                                                        | ~1,5:1                       | ~1,6:1               |
| EFFICACITÉ (%)       | ~31,0                                                                                      | ~41,6                                                                                                                                                         | ~41,6                        | ~36,9                |
| GAIN DE CRÊTE (DBI)  | ~1,3                                                                                       | ~3,4                                                                                                                                                          | ~4,7                         | ~4,0                 |
| GAIN MOYEN (DB)      | ~-5,1                                                                                      | ~-3,9                                                                                                                                                         | ~-3,8                        | ~-4,4                |



## Câble 2 : 2G/3G/4G/5G - IoT/LPWAN

| FRÉQUENCE(S) (MHZ)   | 617-960                                                                                    | 1427-2690                                                                                                                                                     | 3300-5000                    | 5150-5925            |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| BANDE(S) (MHZ)       | 600, 700, 850, 900                                                                         | 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600                                                                                                    | 3300, 3500, 3600, 3700, 4500 | 5200, 5500, 5800     |
| BANDES 5G NR         | n5, n8, 12, n20, n28, n71, n81, n82, n83,                                                  | n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86                                                                | n77, n78, n79                |                      |
| BANDES 4G-LTE        | B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85 | B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76 | B22, B42, B43, B48, B49, B52 | B46, B47, B252, B255 |
| BANDES 3G            | B5, B6, B8, B12, B13, B14, B19, B20, B26                                                   | B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40                                                                       | B22                          |                      |
| BANDES 2G            | 710, 750, 810T, 850, 900P, 900E, 900R                                                      | 1800DCS, 1900PCS                                                                                                                                              |                              |                      |
| BANDES CDMA          | BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19                                            | BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21                                                                                                        |                              |                      |
| PERTE DE RETOUR (DB) | ~-5,6                                                                                      | ~-12,7                                                                                                                                                        | ~-15,3                       | ~-16,0               |
| VSWR                 | ~3,7:1                                                                                     | ~1,9:1                                                                                                                                                        | ~1,5:1                       | ~1,5:1               |
| EFFICACITÉ (%)       | ~31,2                                                                                      | ~41,4                                                                                                                                                         | ~42,4                        | ~33,1                |
| GAIN DE CRÊTE (DBI)  | ~1,2                                                                                       | ~3,6                                                                                                                                                          | ~4,6                         | ~3,2                 |
| GAIN MOYEN (DB)      | ~-5,1                                                                                      | ~-3,9                                                                                                                                                         | ~-3,8                        | ~-4,8                |



## Câble 3 : 2G/3G/4G/5G - IoT/LPWAN

| FRÉQUENCE(S) (MHZ)   | 617-960                                                                                    | 1427-2690                                                                                                                                                     | 3300-5000                    | 5150-5925            |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| BANDE(S) (MHZ)       | 600, 700, 850, 900                                                                         | 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600                                                                                                    | 3300, 3500, 3600, 3700, 4500 | 5200, 5500, 5800     |
| BANDES 5G NR         | n5, n8, 12, n20, n28, n71, n81, n82, n83,                                                  | n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86                                                                | n77, n78, n79                |                      |
| BANDES 4G-LTE        | B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85 | B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76 | B22, B42, B43, B48, B49, B52 | B46, B47, B252, B255 |
| BANDES 3G            | B5, B6, B8, B12, B13, B14, B19, B20, B26                                                   | B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40                                                                       | B22                          |                      |
| BANDES 2G            | 710, 750, 810T, 850, 900P, 900E, 900R                                                      | 1800DCS, 1900PCS                                                                                                                                              |                              |                      |
| BANDES CDMA          | BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19                                            | BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21                                                                                                        |                              |                      |
| PERTE DE RETOUR (DB) | ~-5,4                                                                                      | ~-12,9                                                                                                                                                        | ~-16,7                       | ~-12,4               |
| VSWR                 | ~3,7:1                                                                                     | ~1.8:1                                                                                                                                                        | ~1.4:1                       | ~1.8:1               |
| EFFICACITÉ (%)       | ~31,5                                                                                      | ~41,6                                                                                                                                                         | ~40,3                        | ~38,5                |
| GAIN DE CRÊTE (DBI)  | ~1.3                                                                                       | ~3,8                                                                                                                                                          | ~4,5                         | ~4,6                 |
| GAIN MOYEN (DB)      | ~-5,0                                                                                      | ~-3.8                                                                                                                                                         | ~-4.0                        | ~-4,2                |



## Câble 4 : 2G/3G/4G/5G - IoT/LPWAN

| FRÉQUENCE(S) (MHZ)   | 617-960                                                                                    | 1427-2690                                                                                                                                                     | 3300-5000                    | 5150-5925            |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|
| BANDE(S) (MHZ)       | 600, 700, 850, 900                                                                         | 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600                                                                                                    | 3300, 3500, 3600, 3700, 4500 | 5200, 5500, 5800     |
| BANDES 5G NR         | n5, n8, 12, n20, n28, n71, n81, n82, n83,                                                  | n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86                                                                | n77, n78, n79                |                      |
| BANDES 4G-LTE        | B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85 | B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76 | B22, B42, B43, B48, B49, B52 | B46, B47, B252, B255 |
| BANDES 3G            | B5, B6, B8, B12, B13, B14, B19, B20, B26                                                   | B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40                                                                       | B22                          |                      |
| BANDES 2G            | 710, 750, 810T, 850, 900P, 900E, 900R                                                      | 1800DCS, 1900PCS                                                                                                                                              |                              |                      |
| BANDES CDMA          | BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19                                            | BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21                                                                                                        |                              |                      |
| PERTE DE RETOUR (DB) | ~-5.7                                                                                      | ~-12,8                                                                                                                                                        | ~-16,8                       | ~-15,4               |
| VSWR                 | ~3,5:1                                                                                     | ~1.8:1                                                                                                                                                        | ~1,5:1                       | ~1,5:1               |
| EFFICACITÉ (%)       | ~31,2                                                                                      | ~41,8                                                                                                                                                         | ~42,5                        | ~35,0                |
| GAIN DE CRÊTE (DBI)  | ~1.6                                                                                       | ~3,4                                                                                                                                                          | ~4,6                         | ~3,9                 |
| GAIN MOYEN (DB)      | ~-5.1                                                                                      | ~-3,9                                                                                                                                                         | ~-3.8                        | ~-4.6                |

### Conditions de mesure de l'antenne :

- Montée sur plaque métallique de 30 × 30 cm
- 200 cm de Câble LL195
- Mesurée dans une chambre anéchoïque certifiée CTIA 3D



## Caractéristiques communes Câbles 1, 2, 3 et 4

|                            |                                                      |
|----------------------------|------------------------------------------------------|
| IMPÉDANCE (OHMS)           | 50                                                   |
| POLARISATION               | Linéaire                                             |
| RAYONNEMENT                | Omnidirectionnel                                     |
| PUISSANCE D'ENTRÉE MAX.(W) | 35                                                   |
| CONNECTEUR                 | SMA-Mâle standard (autres connecteurs disponibles)   |
| LONGUEUR DE CÂBLE          | 300 cm standard (toute longueur de câble disponible) |
| TYPE DE CÂBLE              | Norme(s) LL195 (autres câbles disponibles)           |

## SPÉCIFICATIONS

|                            |                          |
|----------------------------|--------------------------|
| TYPE DE MONTAGE            | Traversant / Montage vis |
| DIMENSIONS (MM)            | Ø 96× H 130              |
| COUPLE DE SERRAGE MAX.(NM) | 15 Nm                    |
| MATÉRIAU RADÔME            | ASA                      |
| COULEUR RADÔME             | Blanc ou Noir            |
| BASE D'ANTENNE             | Alliage d'aluminium      |
| T° DE FONCTIONNEMENT (°C)  | -40 à +85                |
| T° DE STOCKAGE (°C)        | -40 à +85                |
| CERTIFICATION(S)           | RoHS                     |
| INDICE(S) DE PROTECTION    | IP67, IP69, IK09         |

## ENVIRONNEMENT

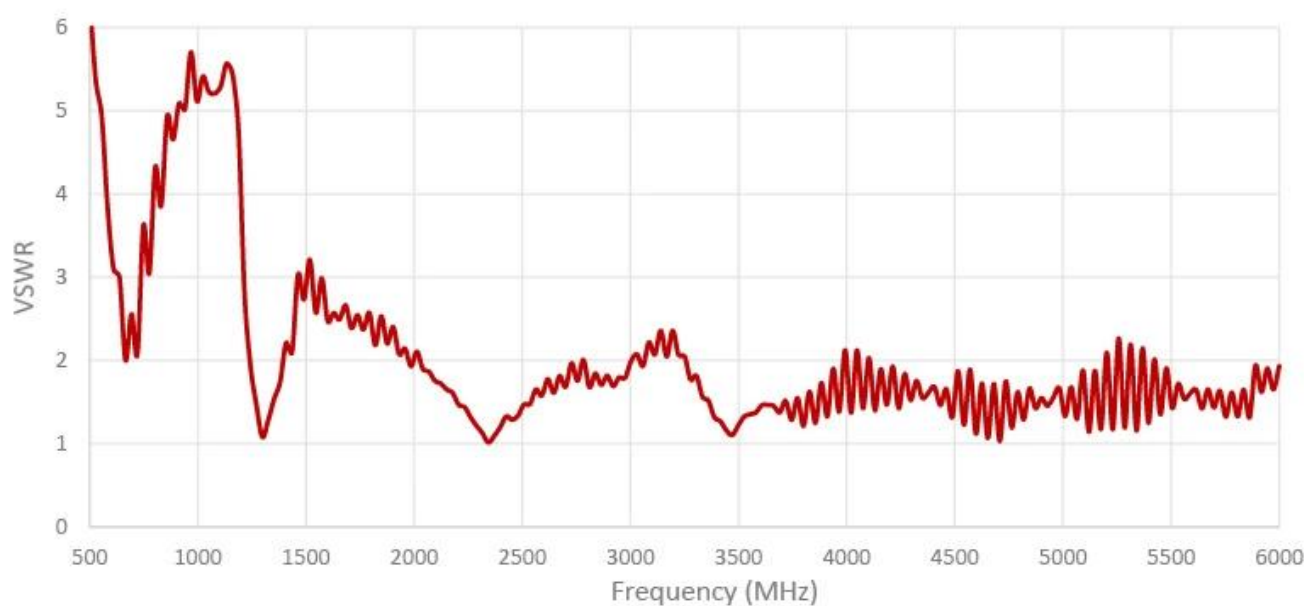
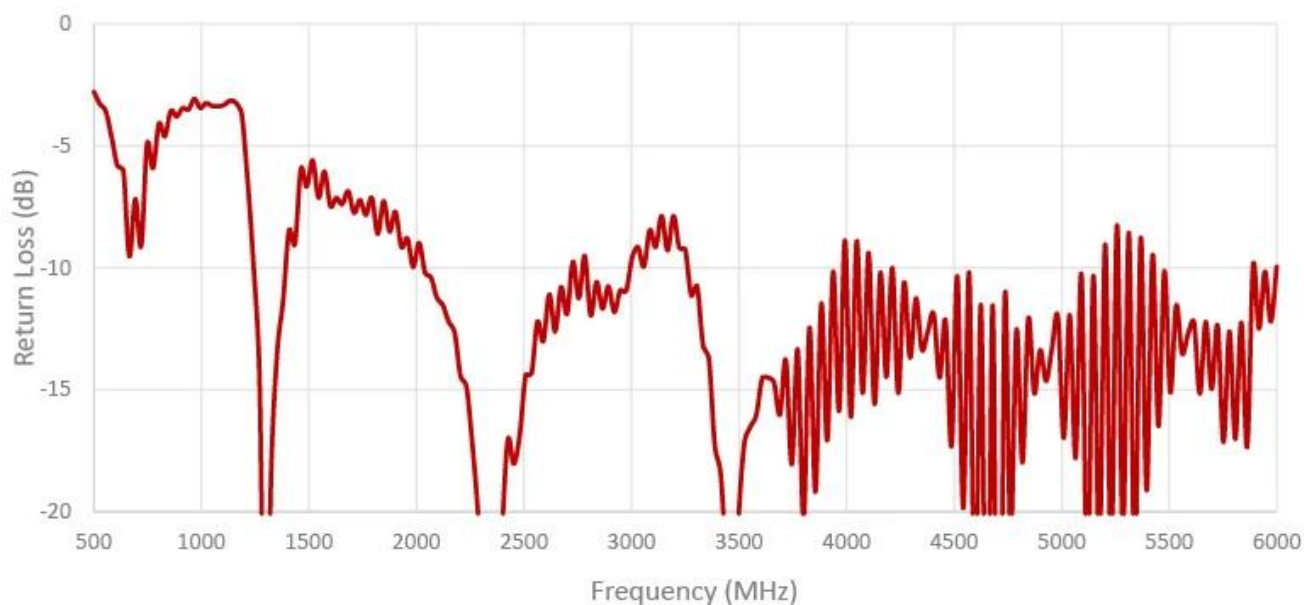
Cette gamme d'antenne est fabriquée sans matières dangereuses tout en maintenant une conformité totale avec REACH et RoHS.

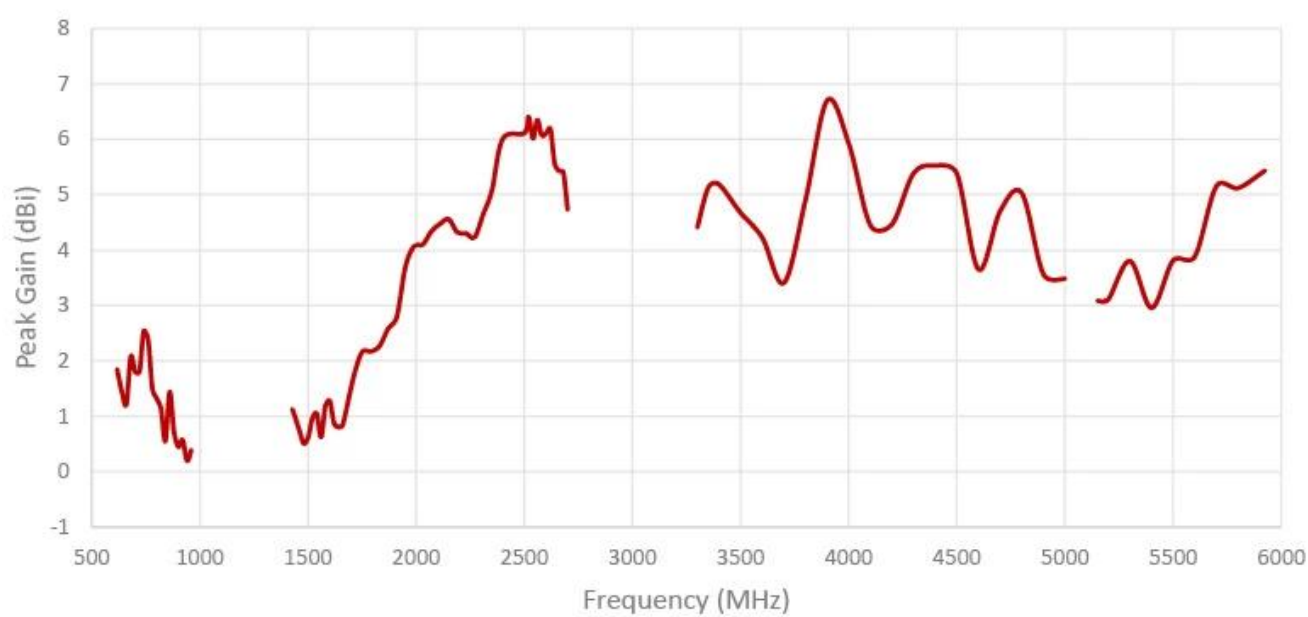
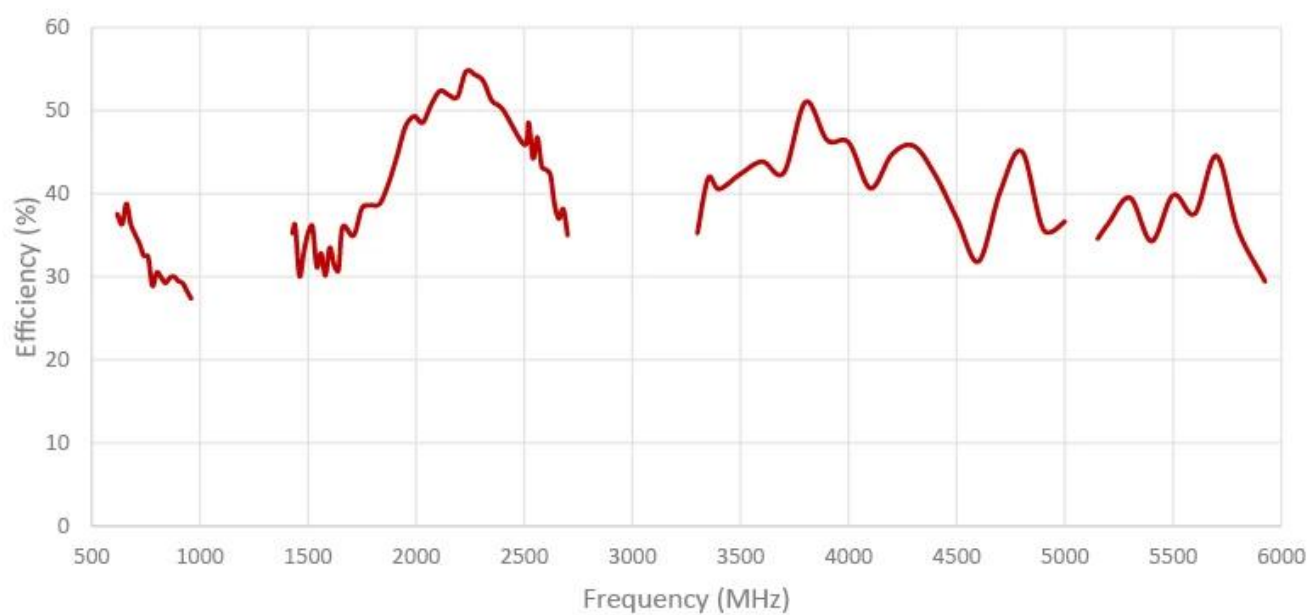


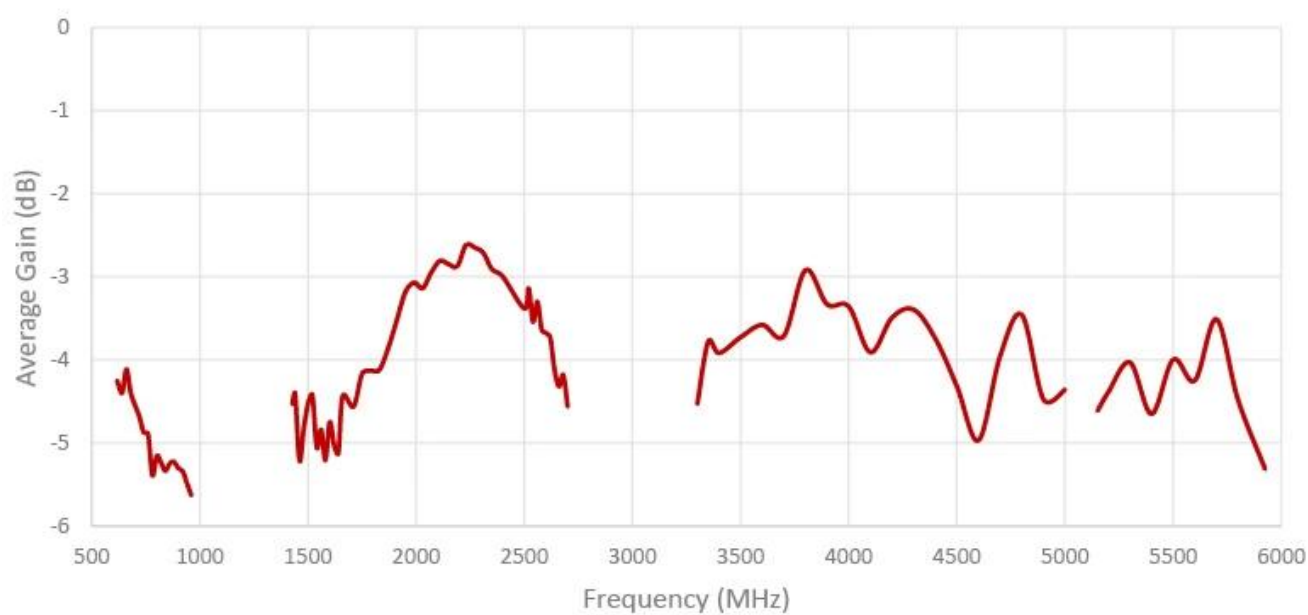


## MESURES

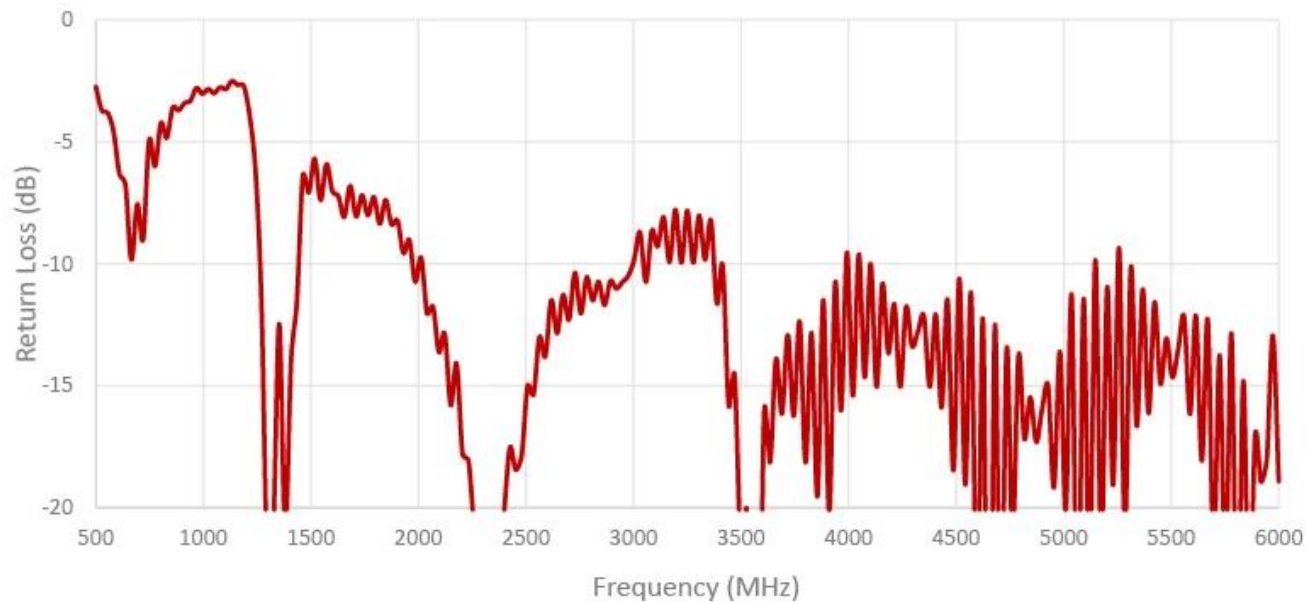
Câble 1 : 2G/3G/4G/5G - IoT/LPWAN

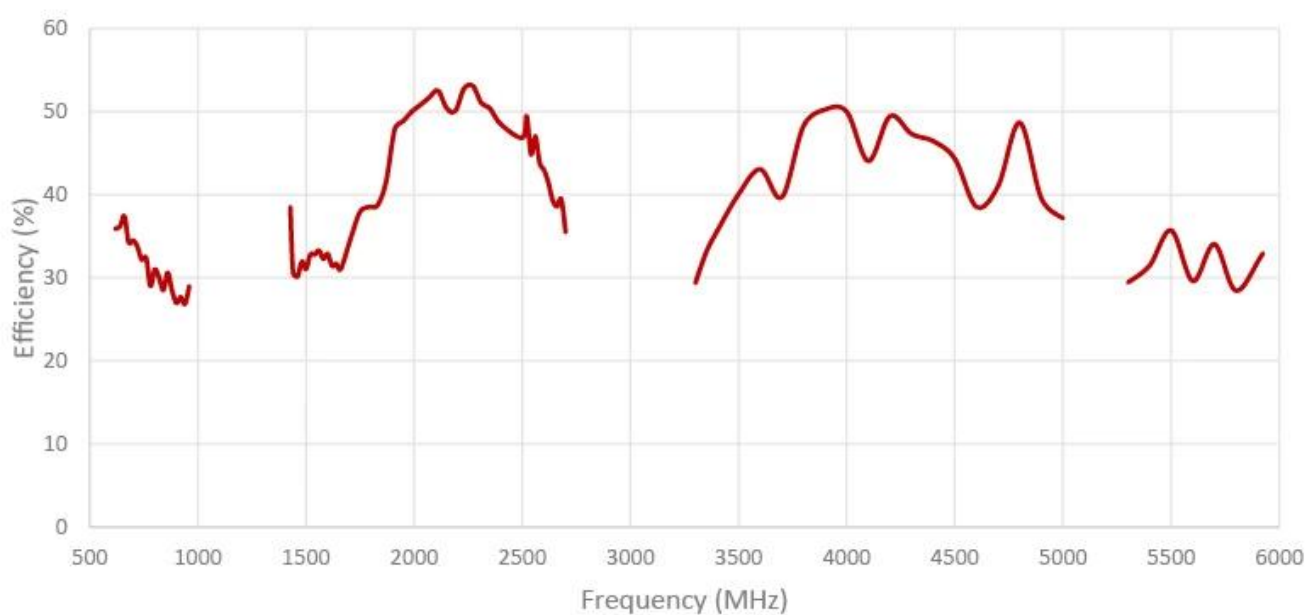
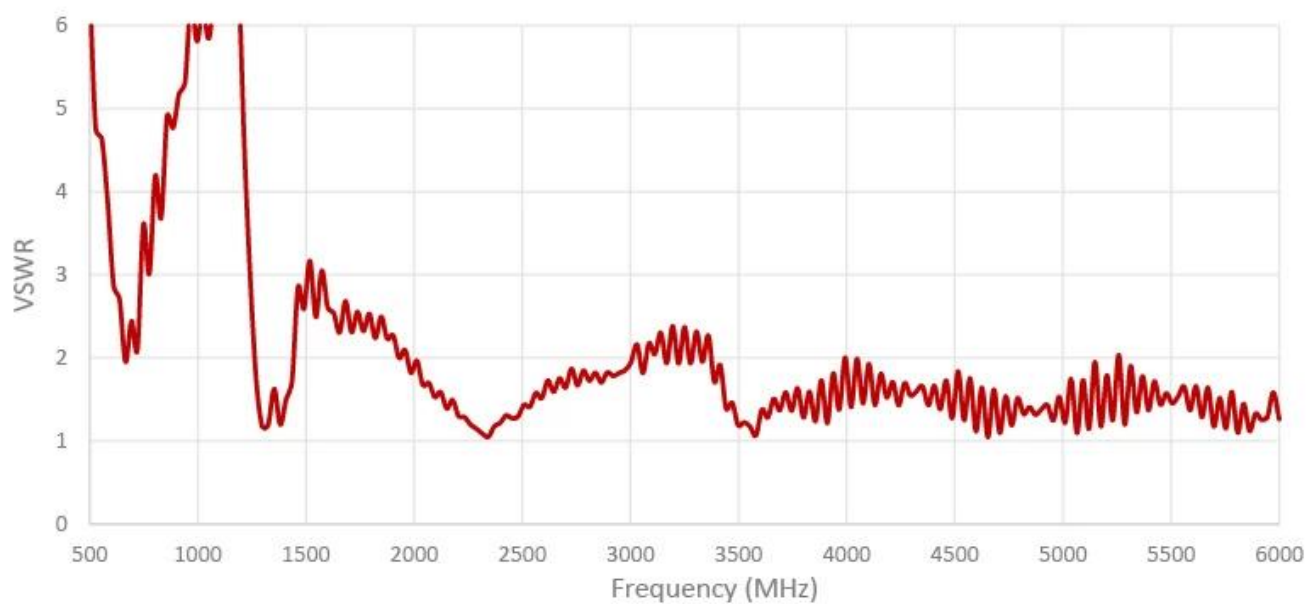


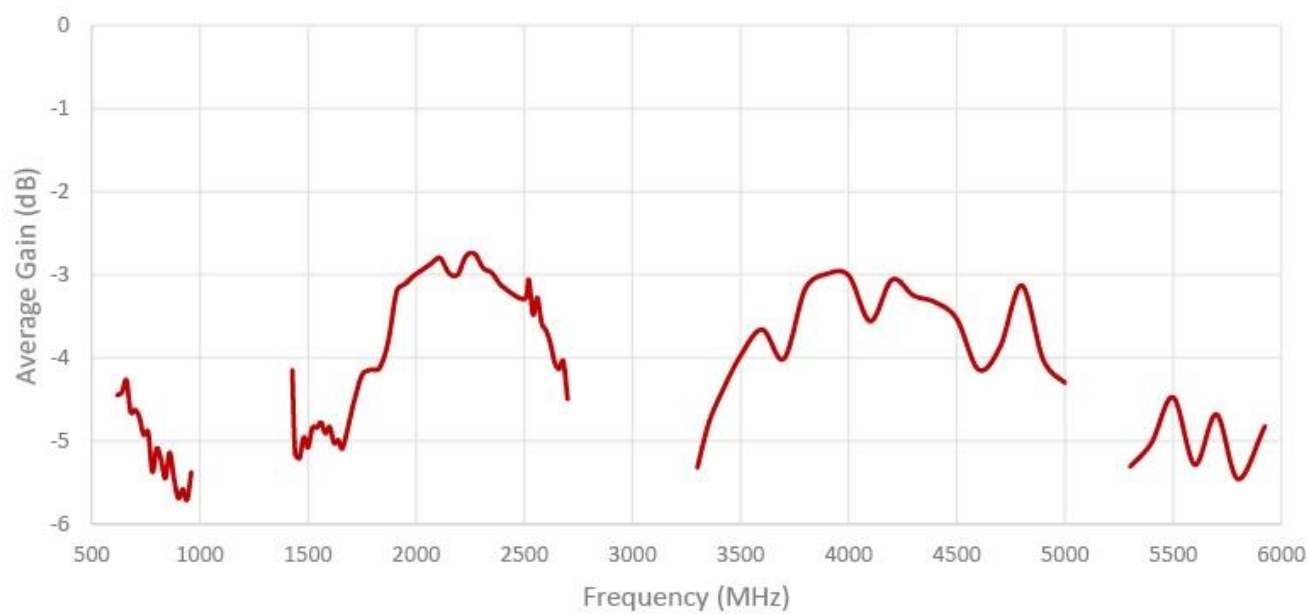
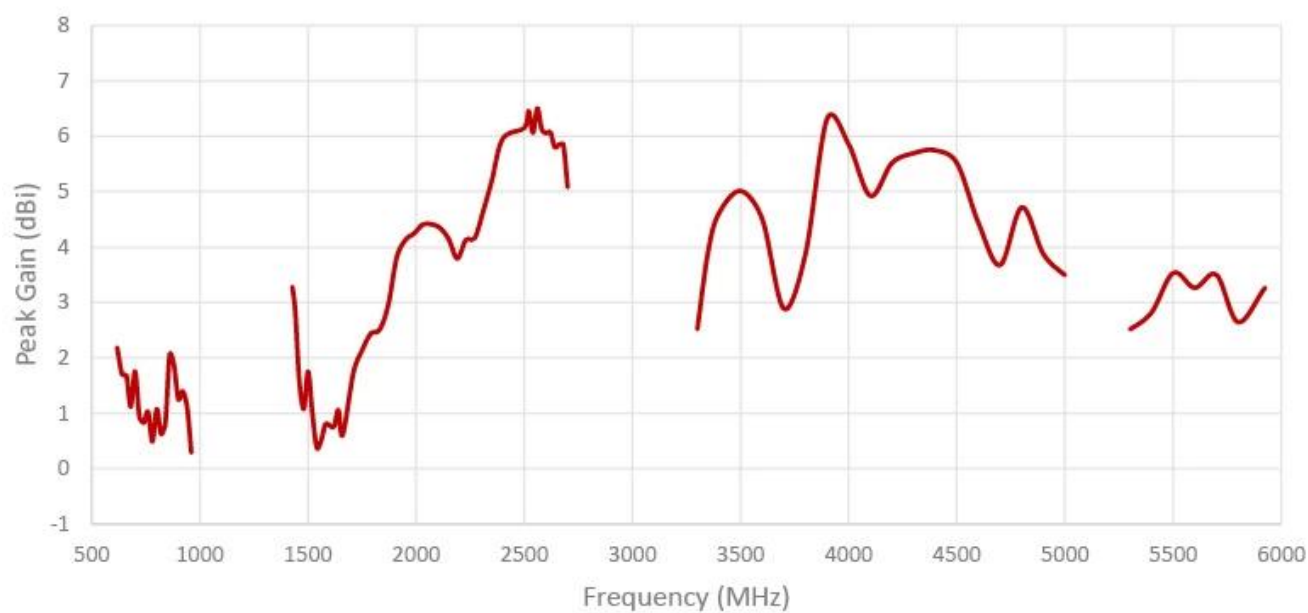




Câble 2 : 2G/3G/4G/5G - IoT/LPWAN

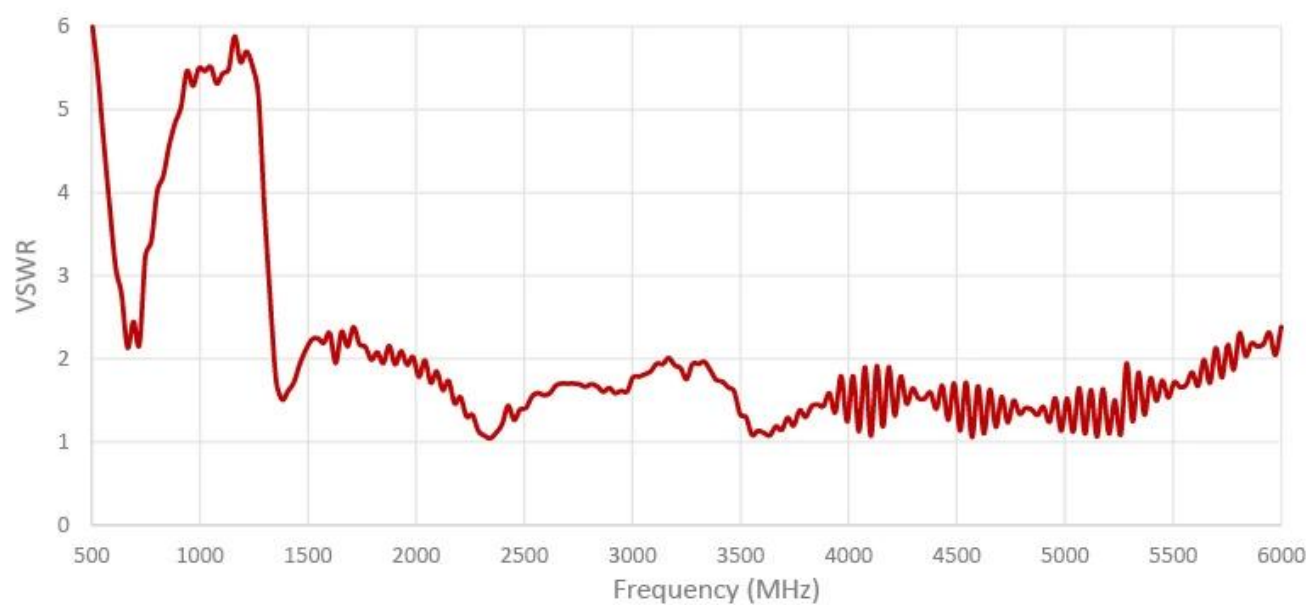
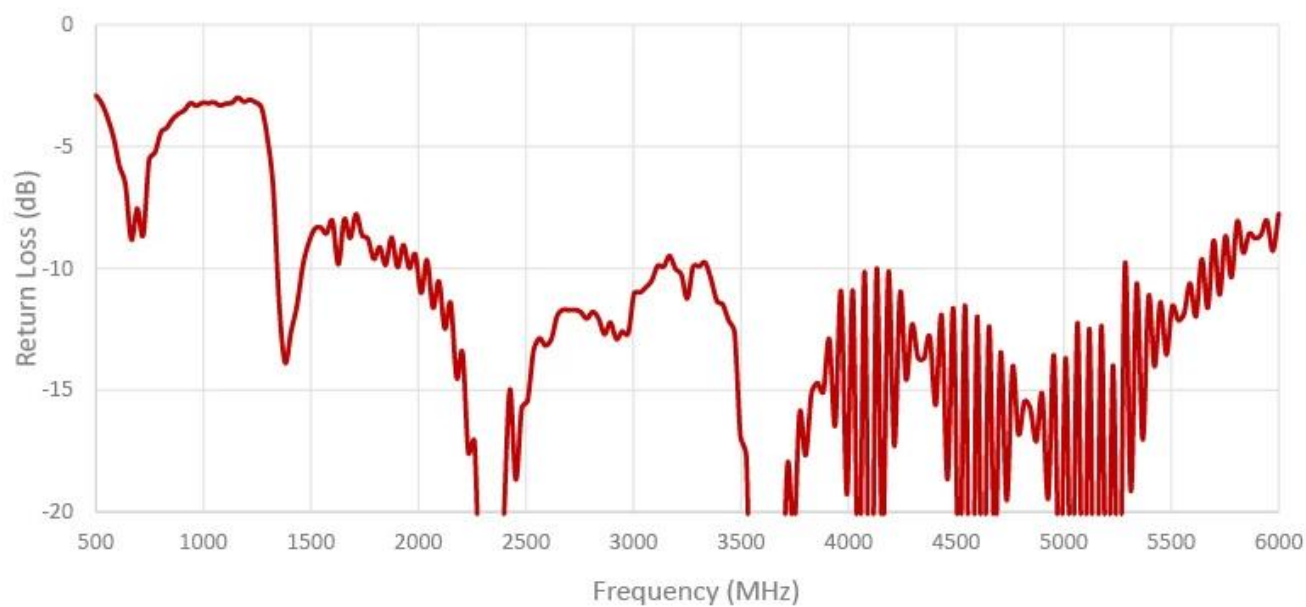


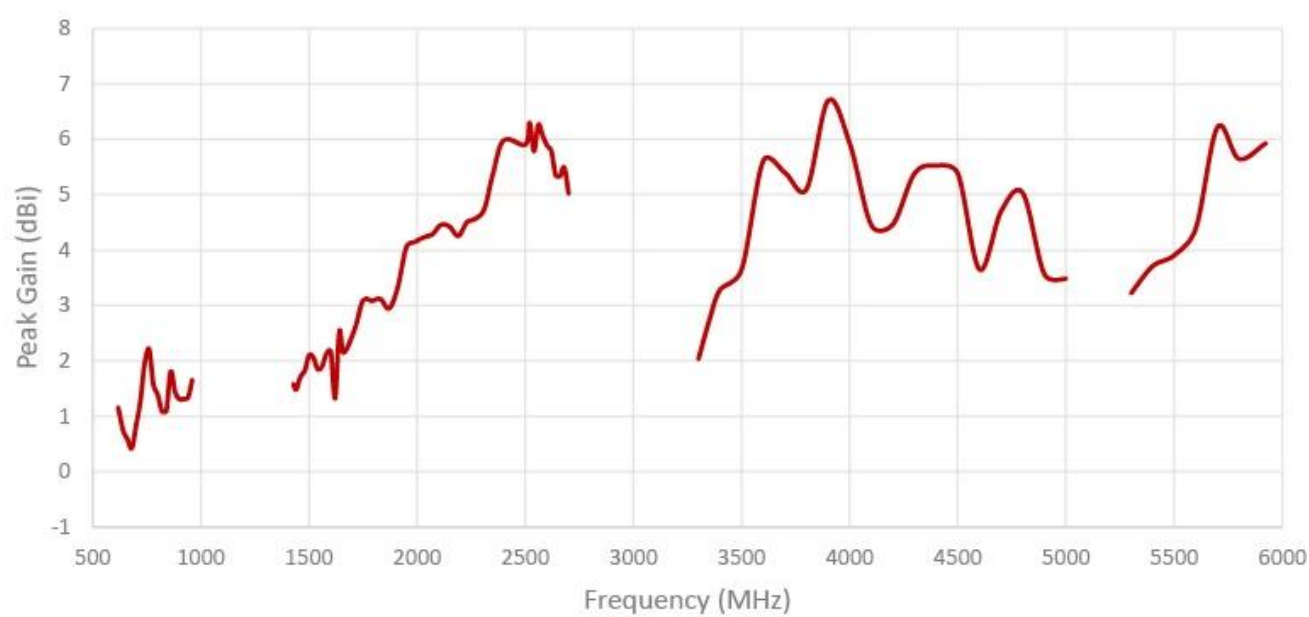
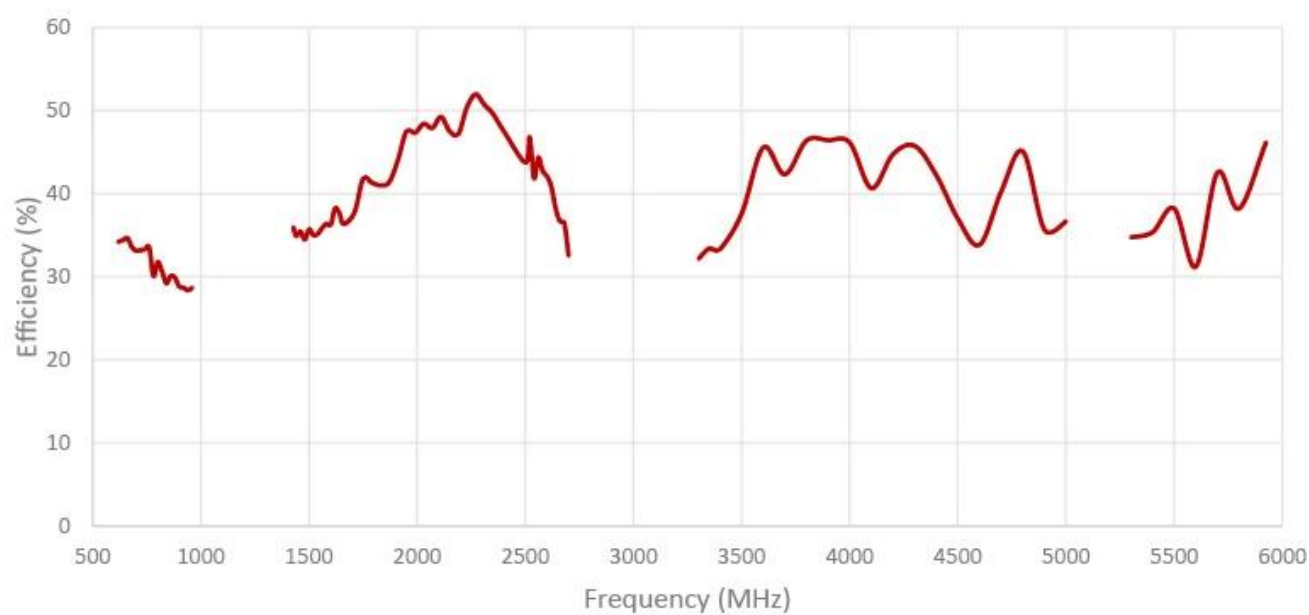


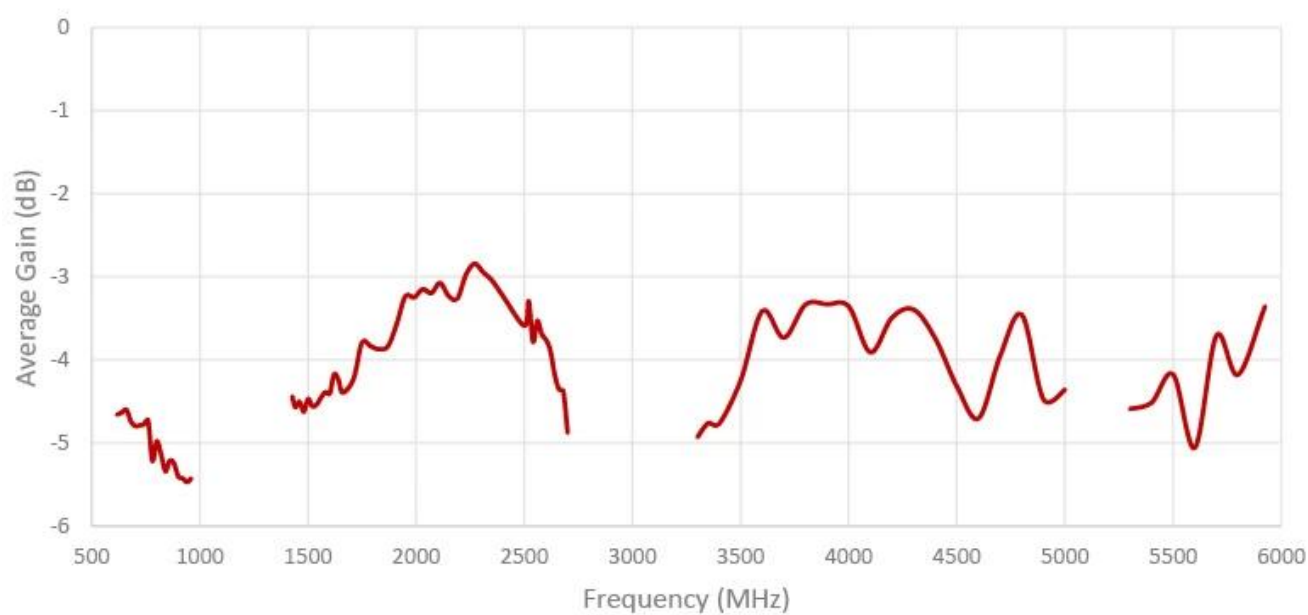




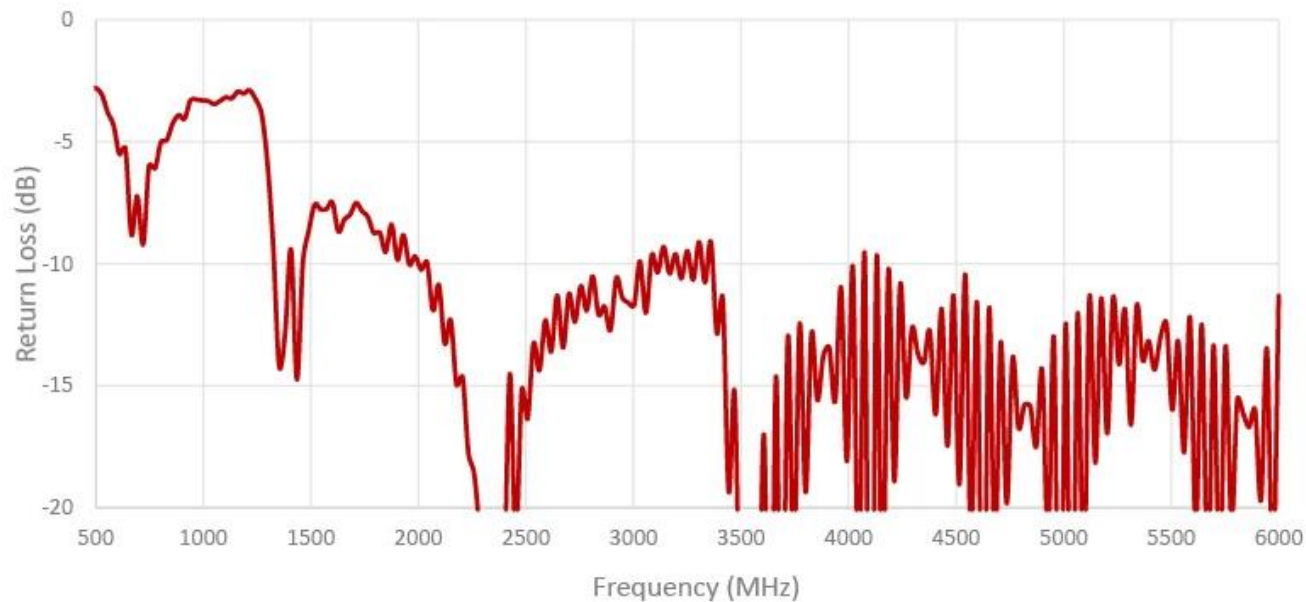
Câble 3 : 2G/3G/4G/5G - IoT/LPWAN

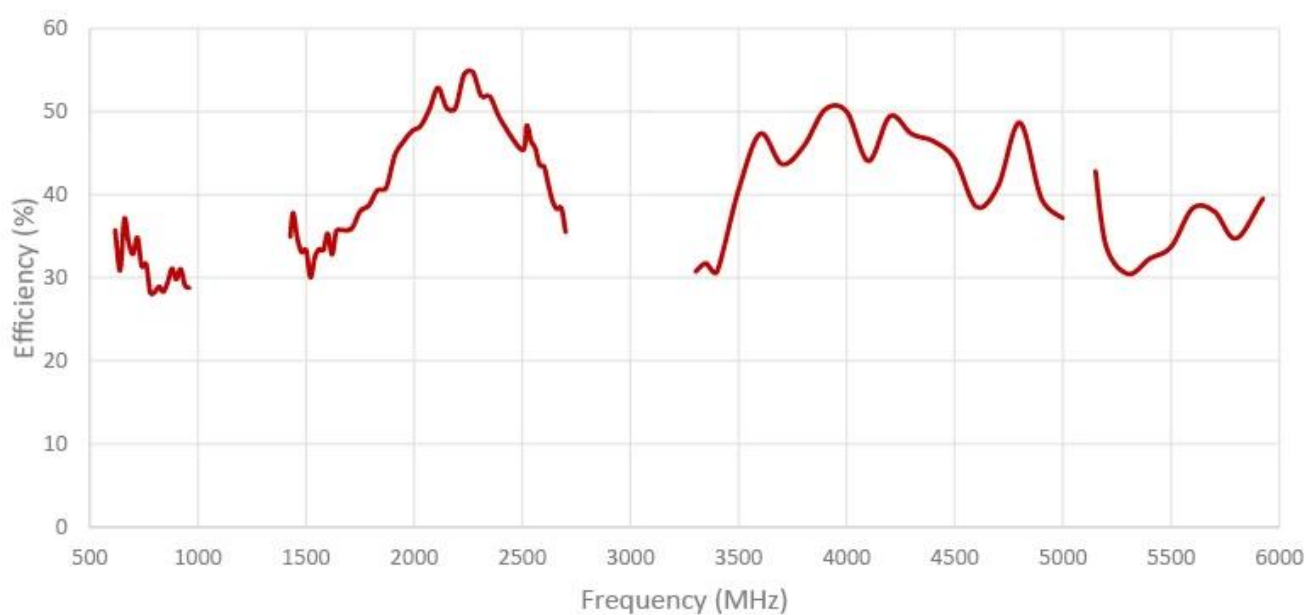
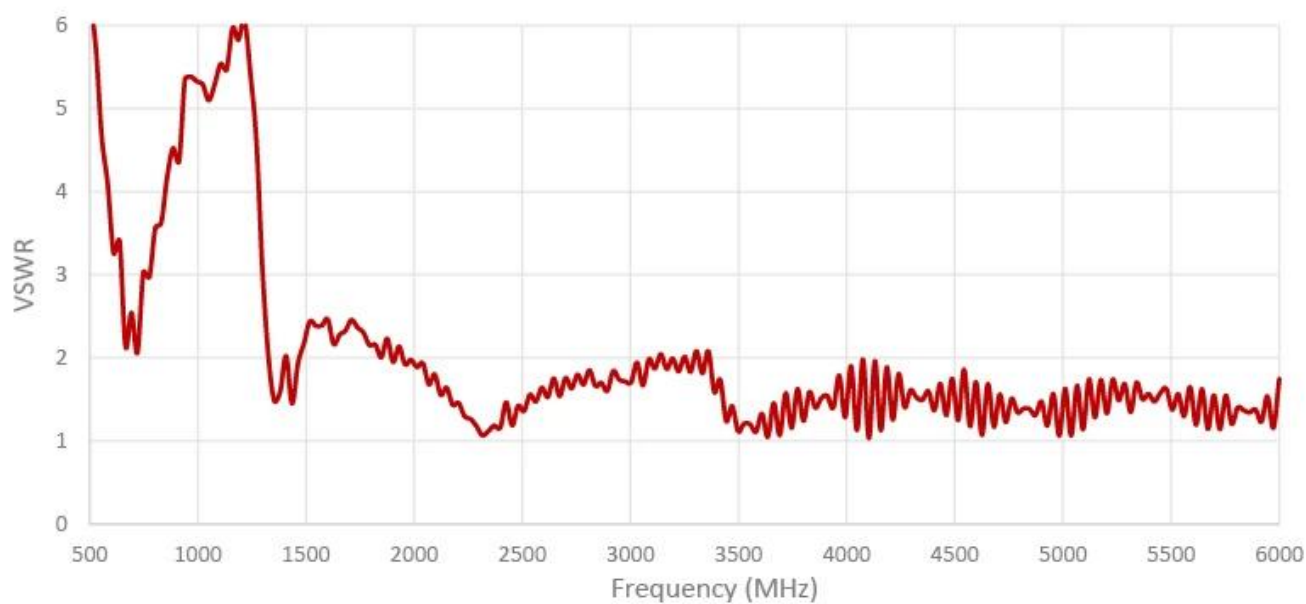


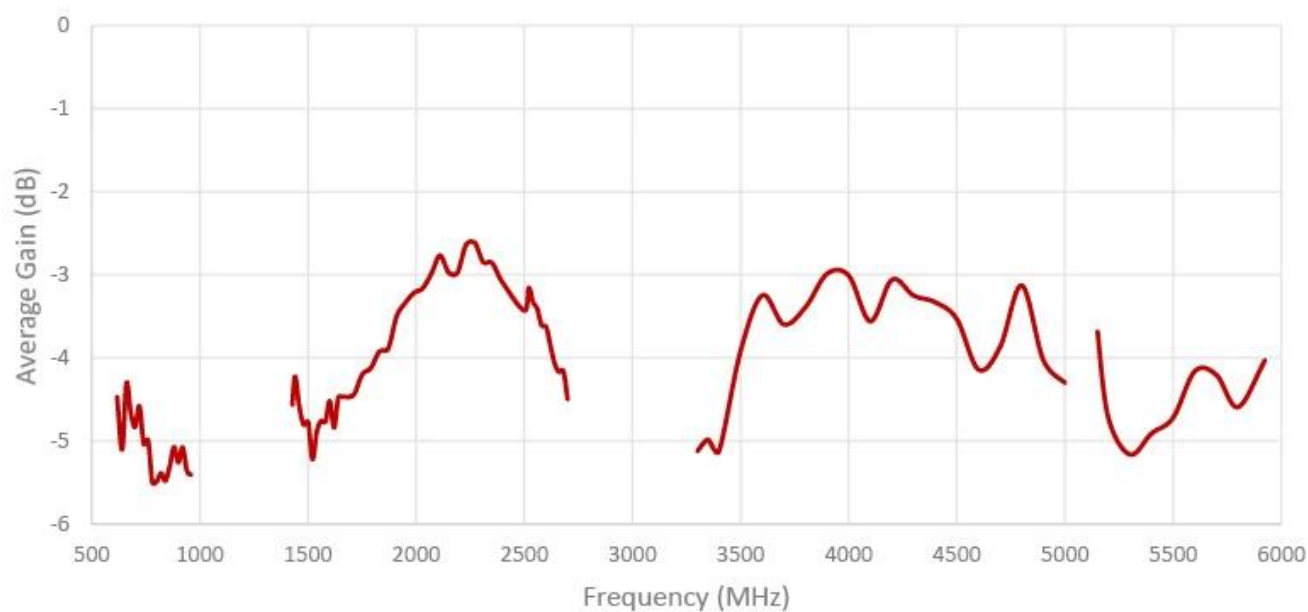
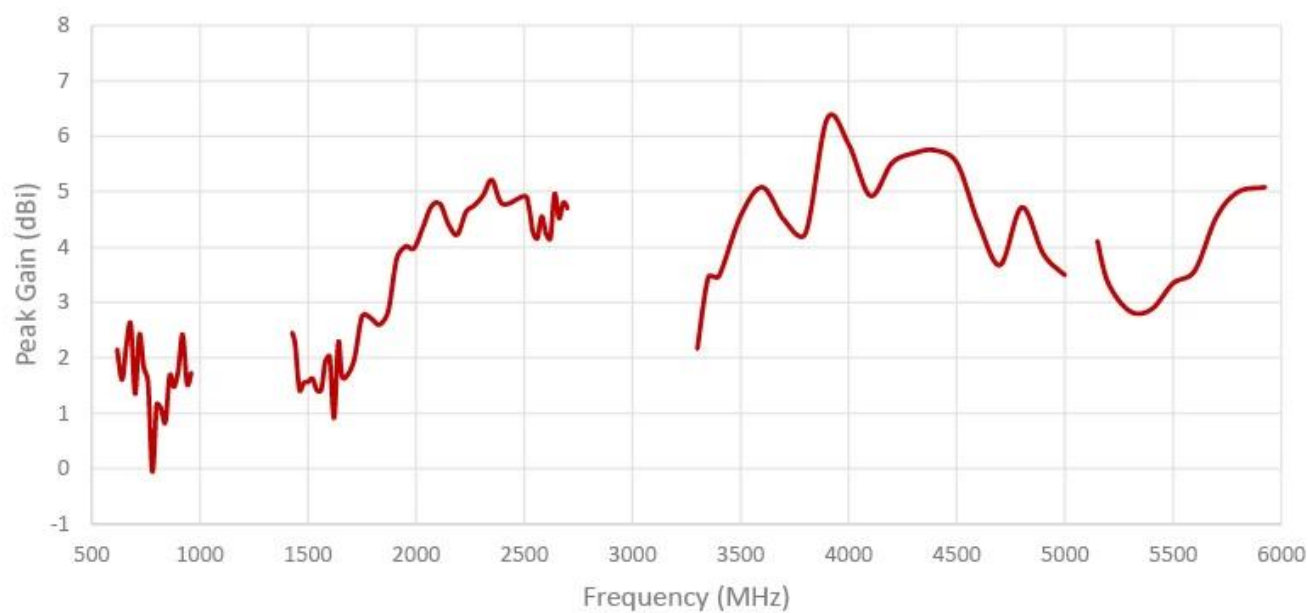




Câble 4 : 2G/3G/4G/5G - IoT/LPWAN

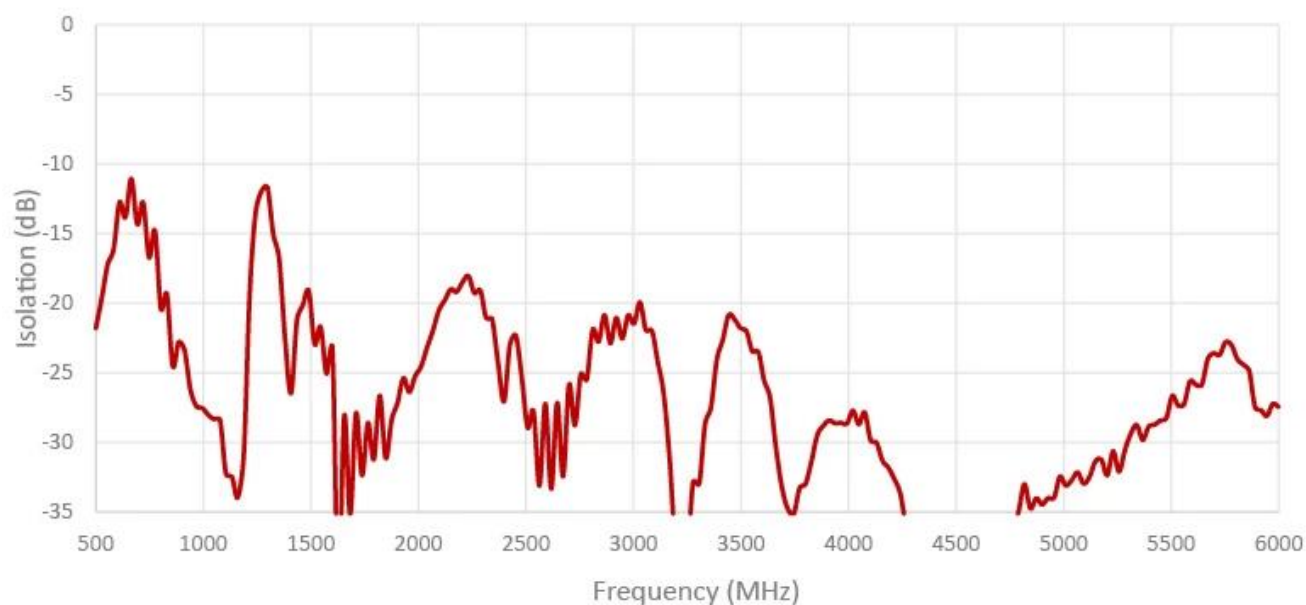




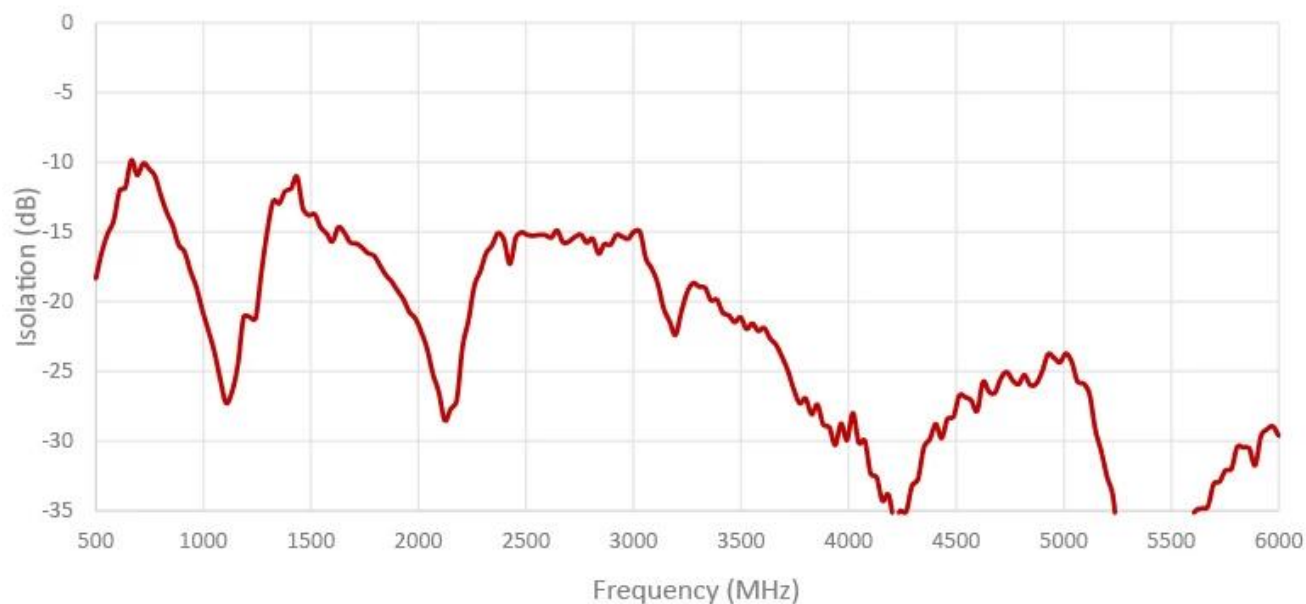




Isolation câble 1 et 2

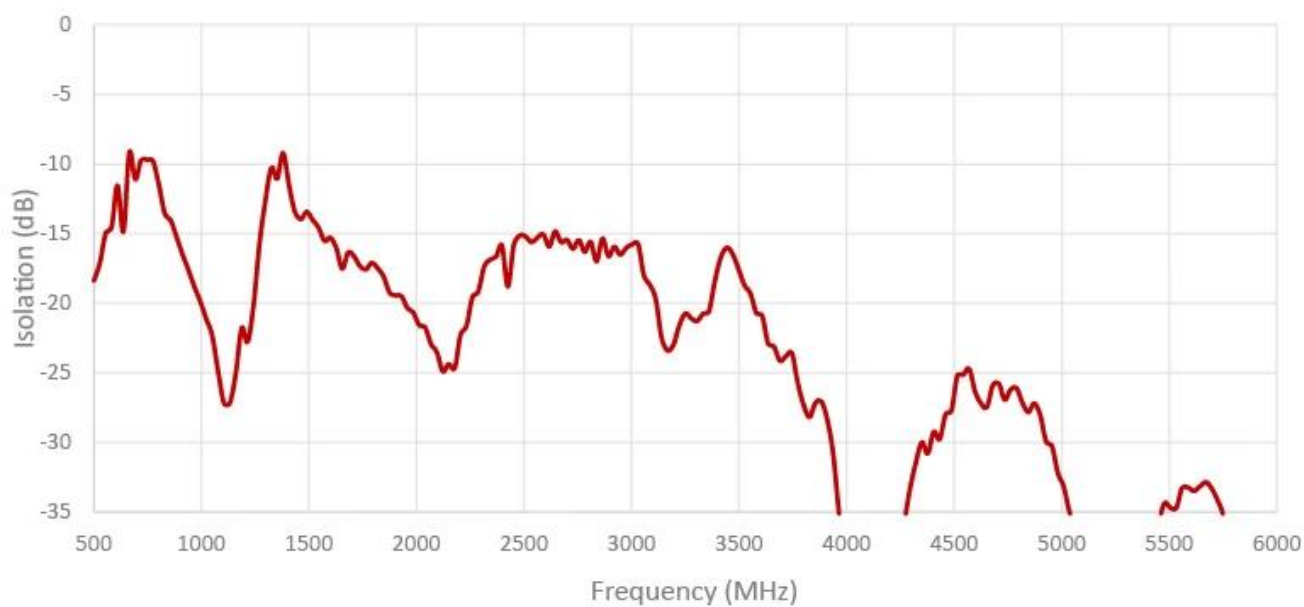


Isolation câble 1 et 3

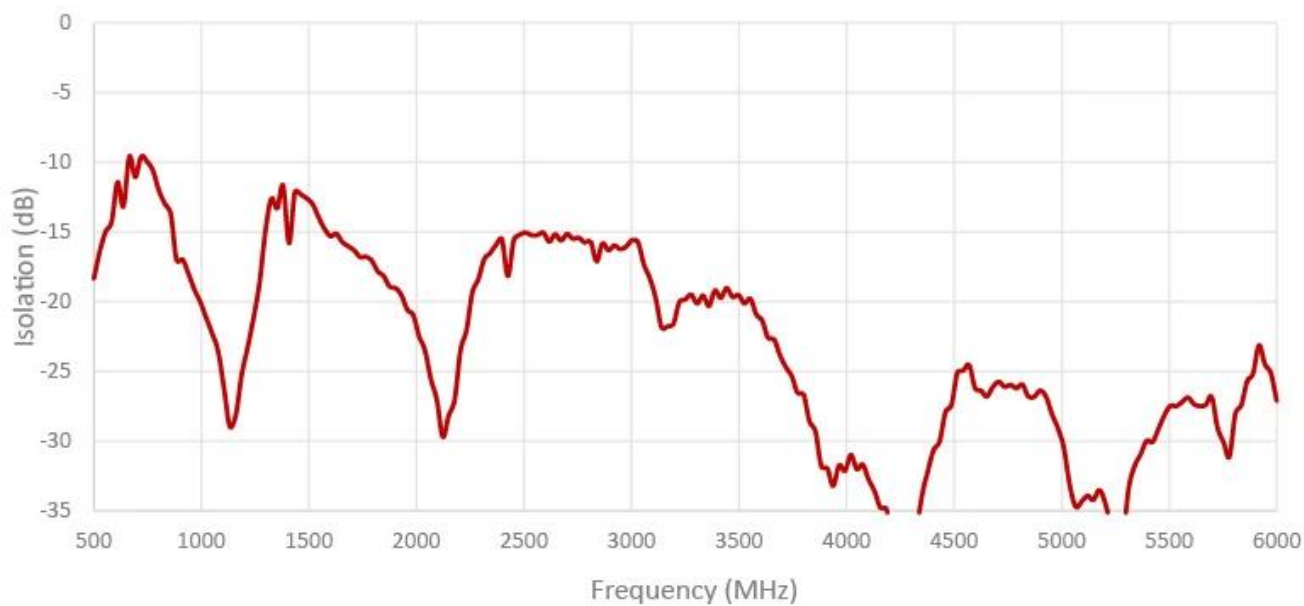




Isolation câble 1 et 4

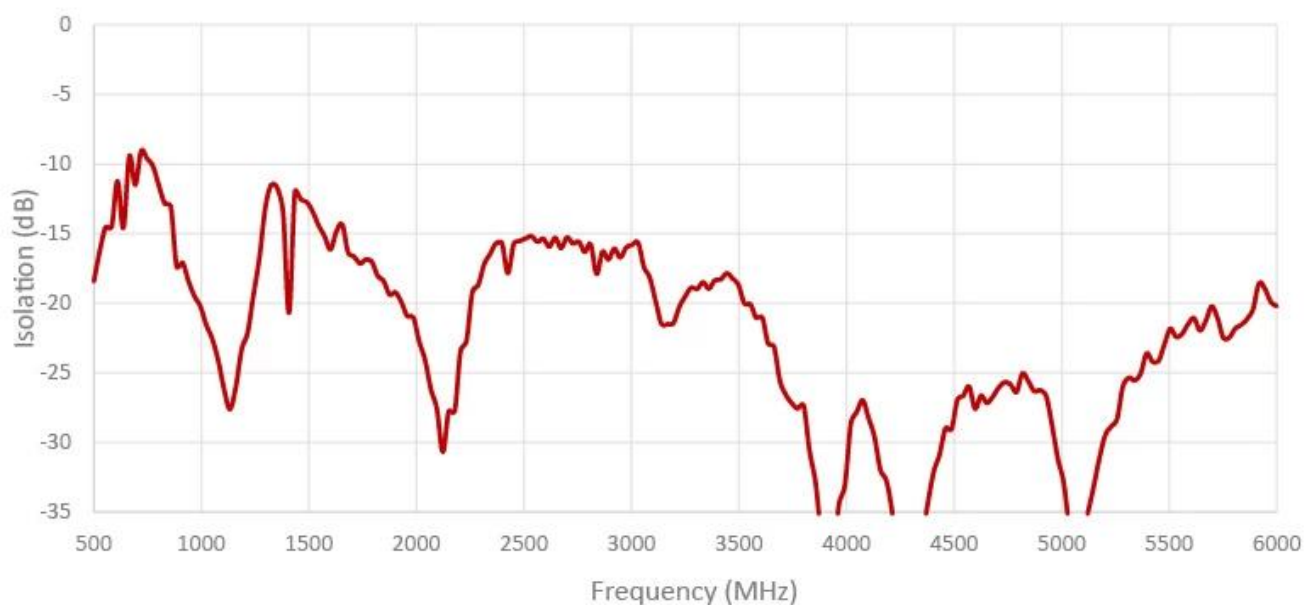


Isolation câble 2 et 3

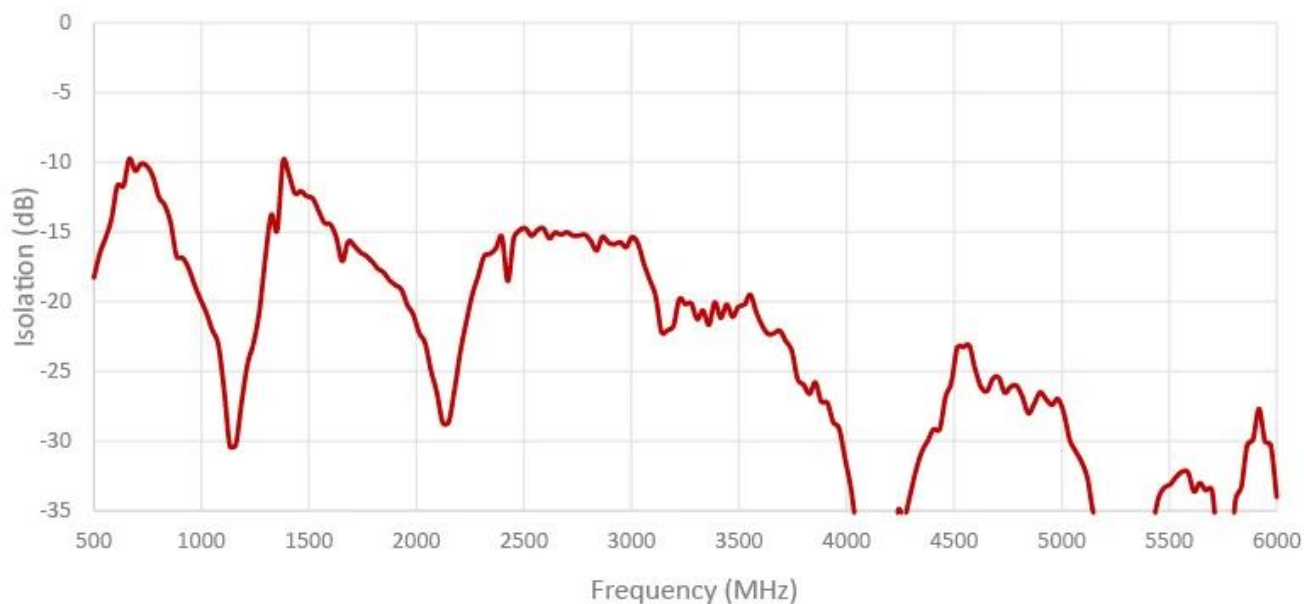




Isolation câble 2 et 4

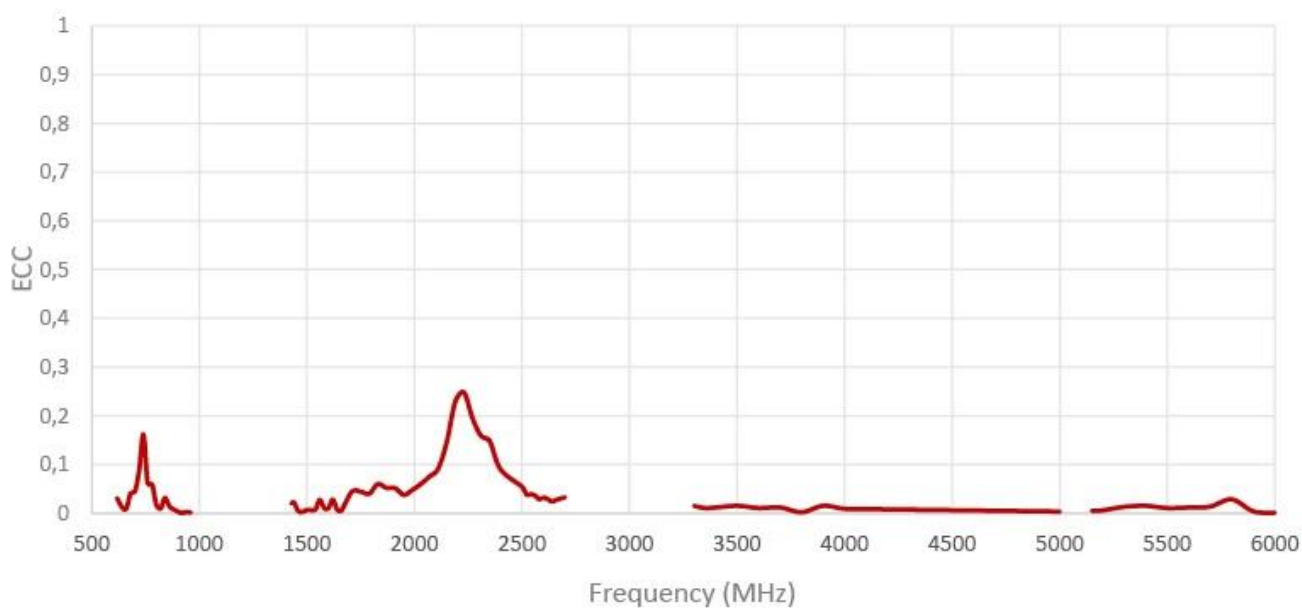


Isolation câble 3 et 4

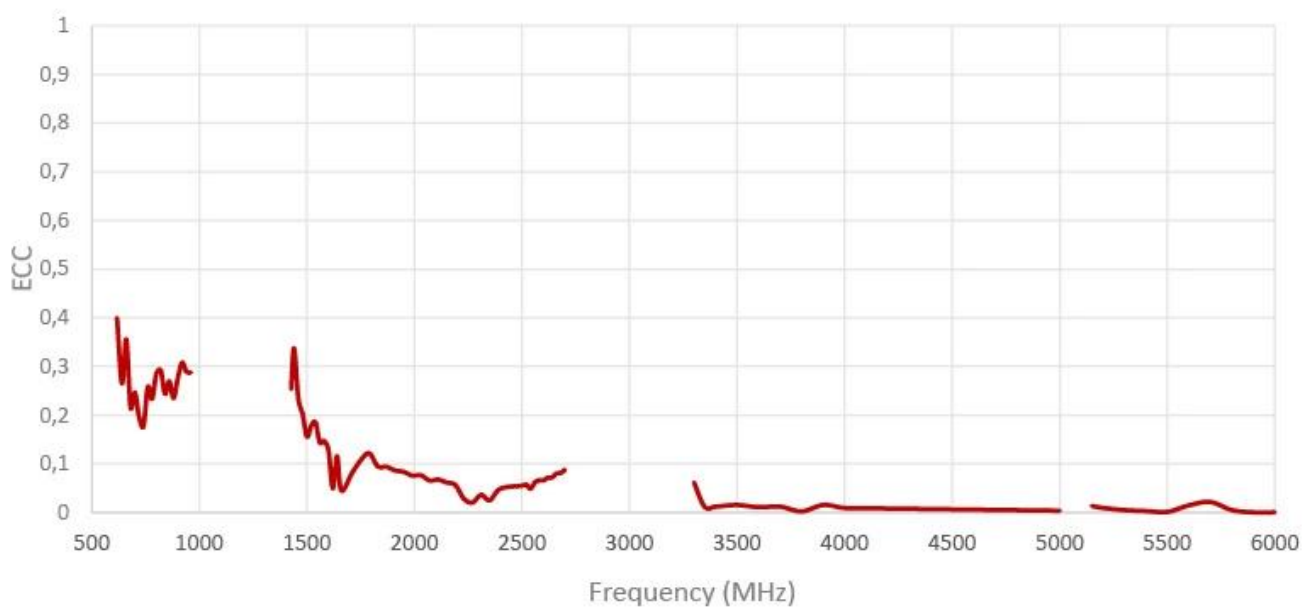




Coefficient de corrélation de l'enveloppe câble 1 et 2

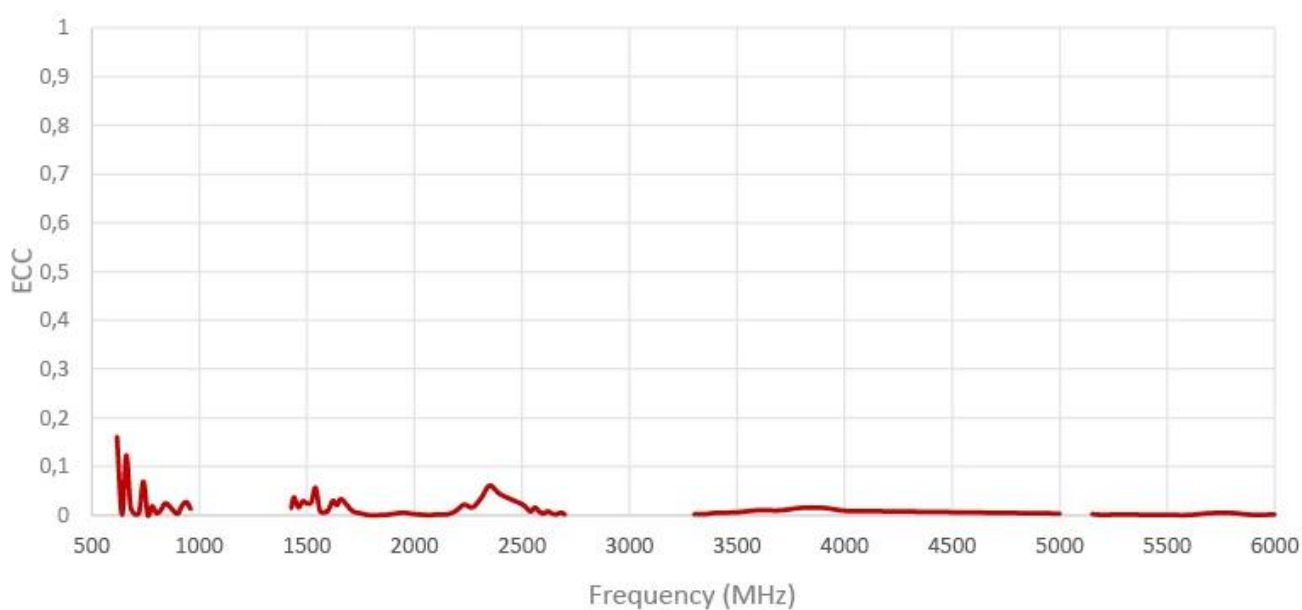


Coefficient de corrélation de l'enveloppe câble 1 et 3

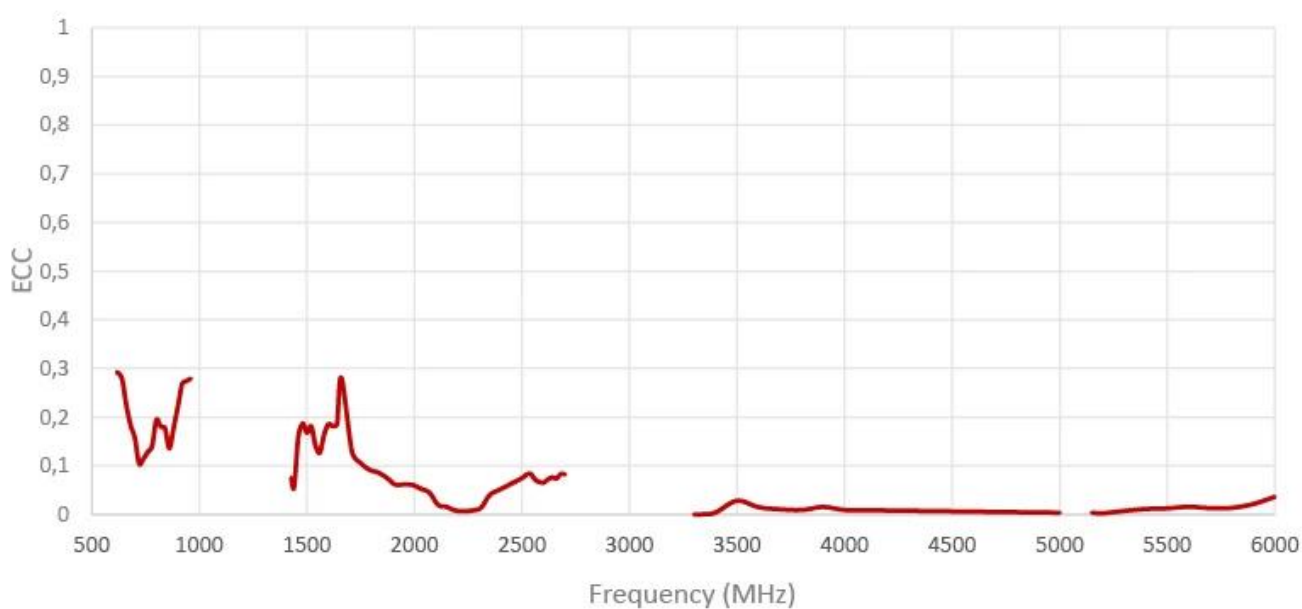




Coefficient de corrélation de l'enveloppe câble 1 et 4

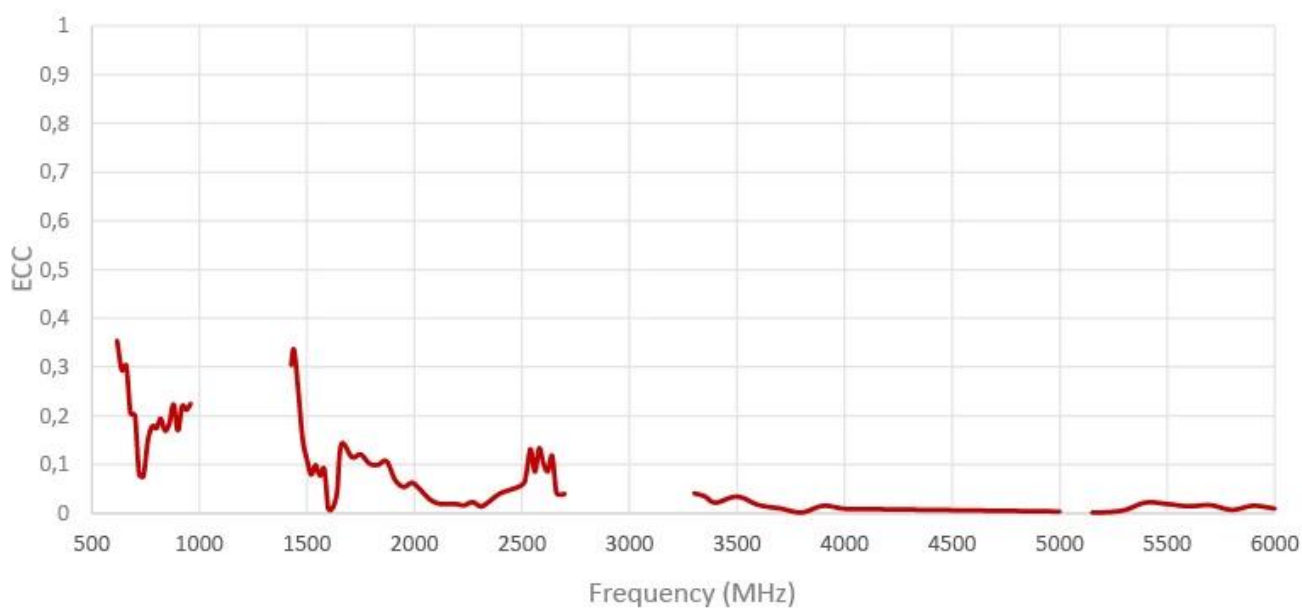


Coefficient de corrélation de l'enveloppe câble 2 et 3

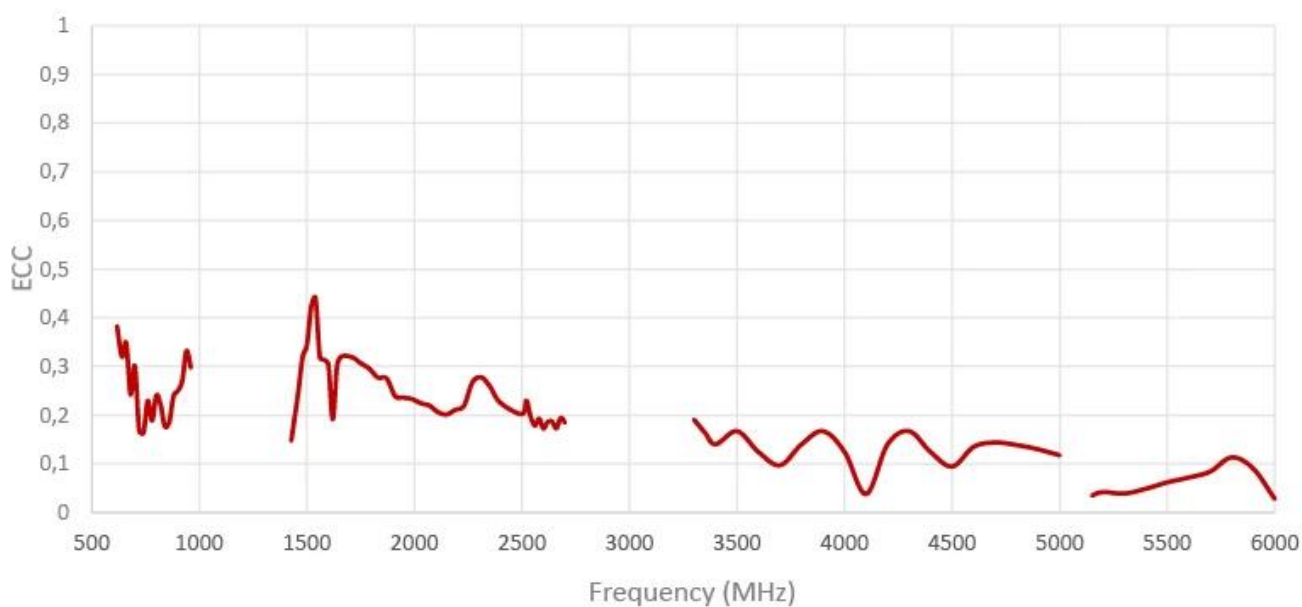




Coefficient de corrélation de l'enveloppe câble 2 et 4



Coefficient de corrélation de l'enveloppe câble 3 et 4

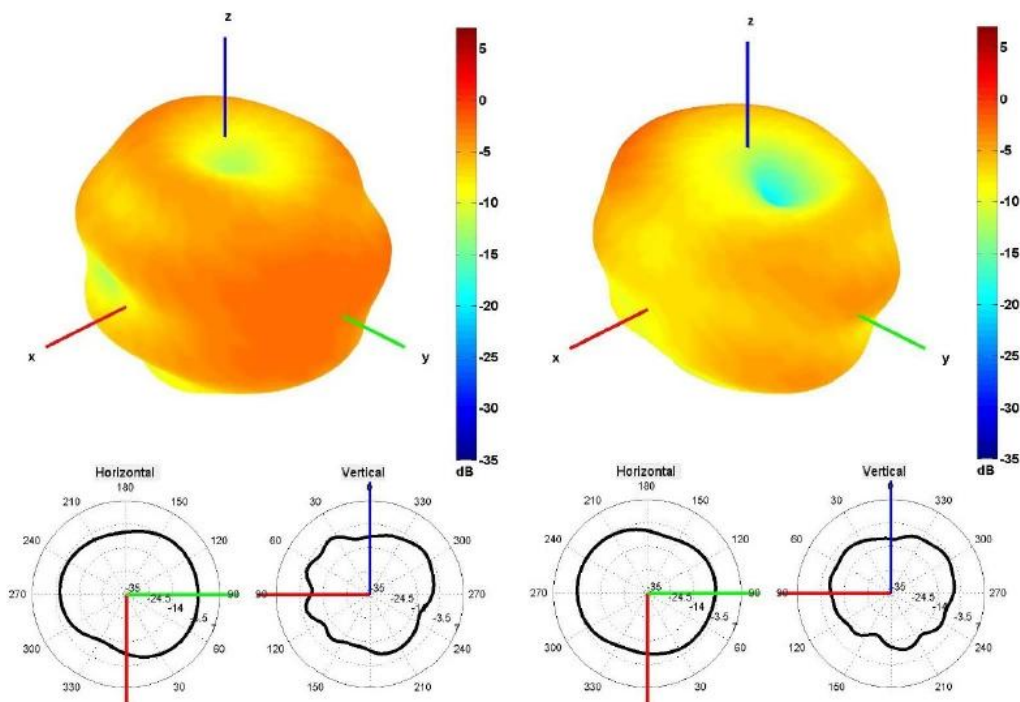




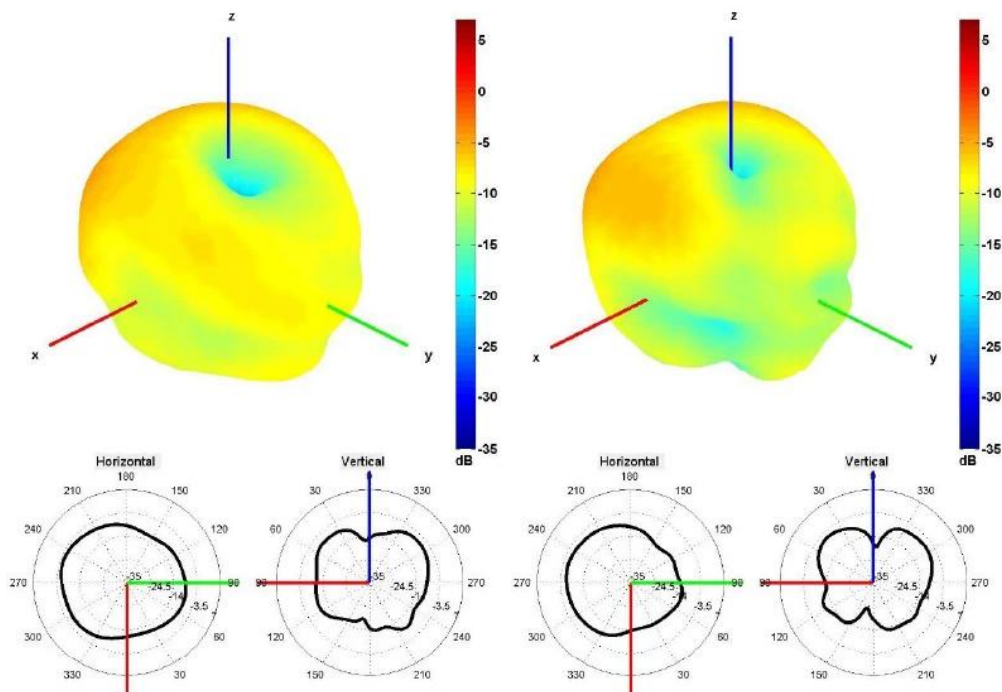
Radiation pattern reference



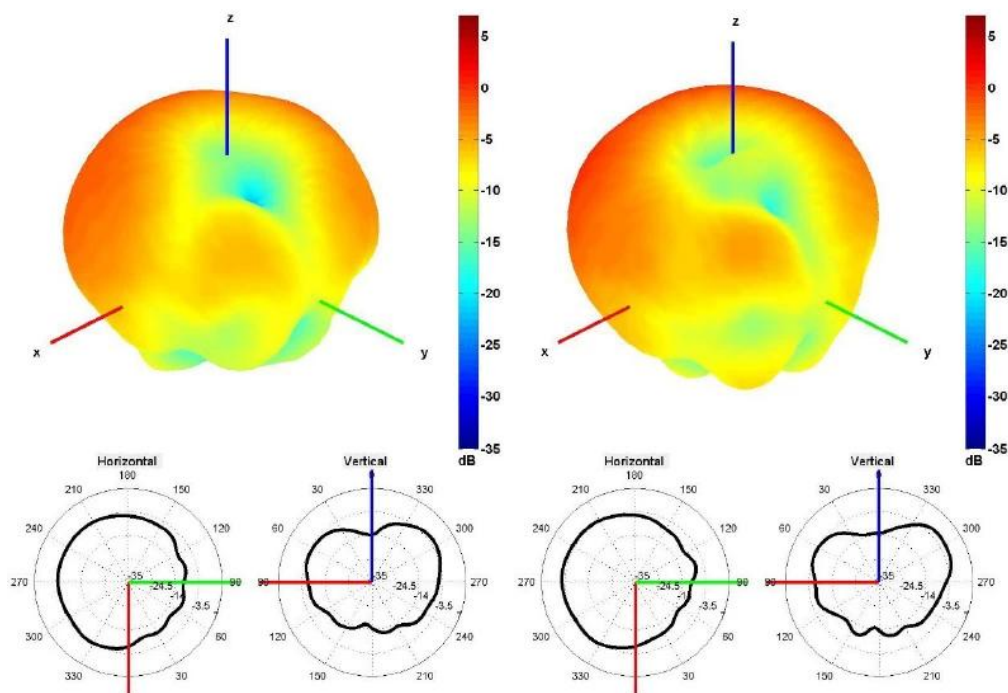
Câble 1 : 2G/3G/4G/5G - IoT/LPWAN



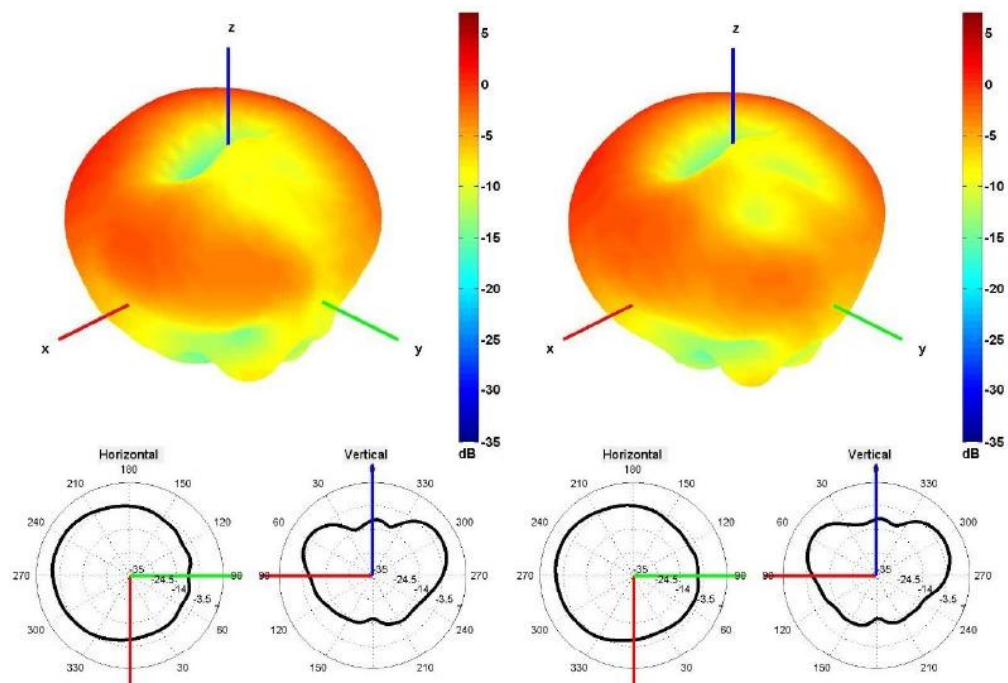
650 and 750 MHz Radiation pattern



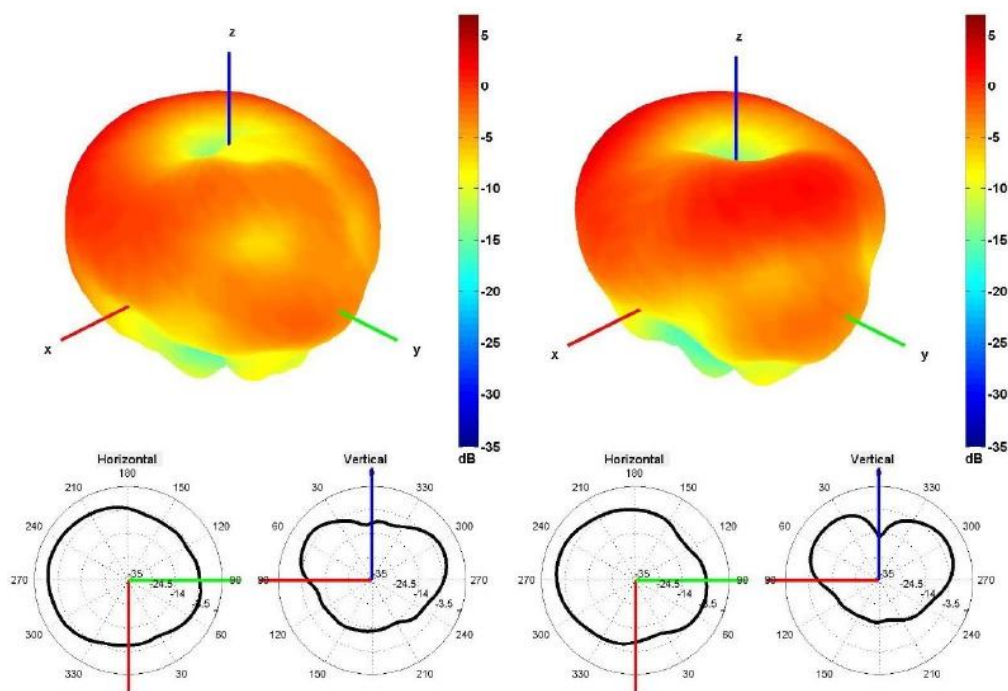
850 and 940 MHz Radiation pattern



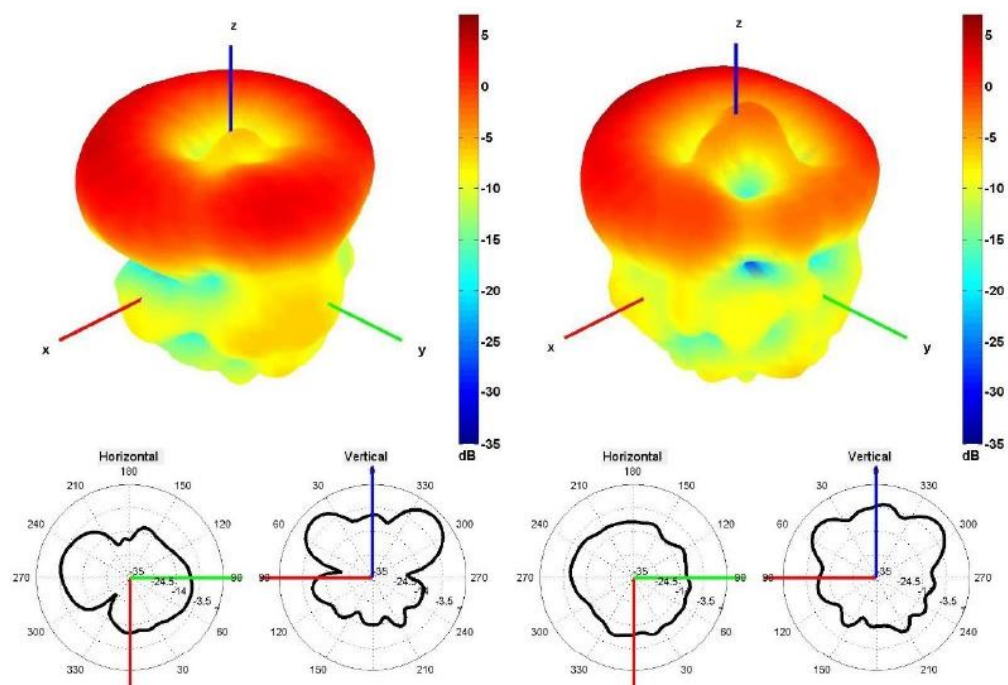
1500 and 1600 MHz Radiation pattern



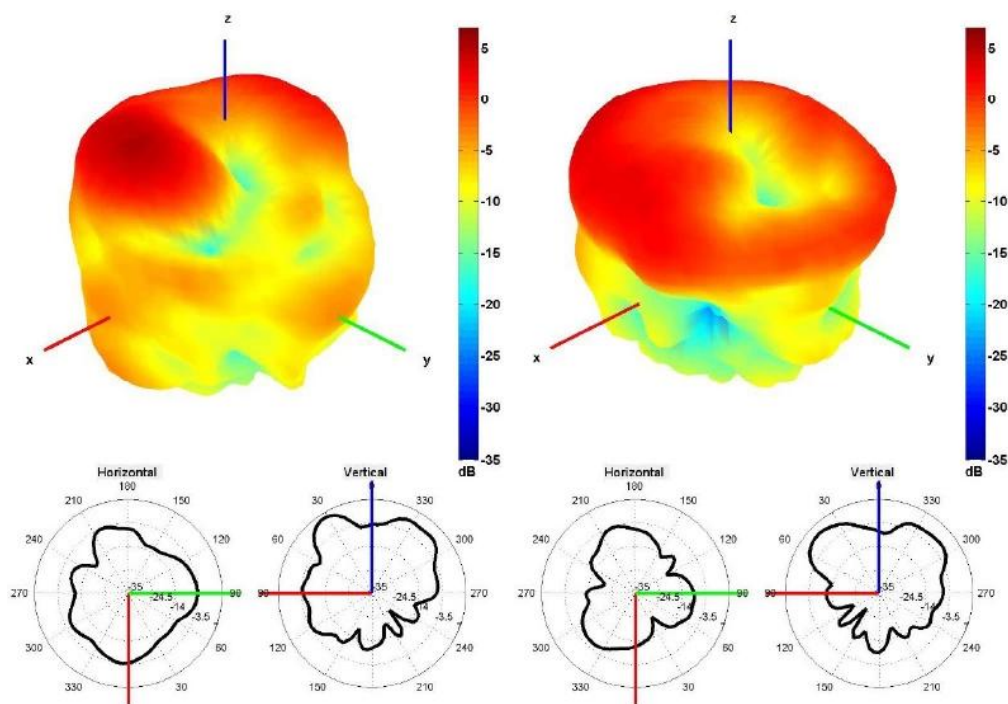
1750 and 1850 MHz Radiation pattern



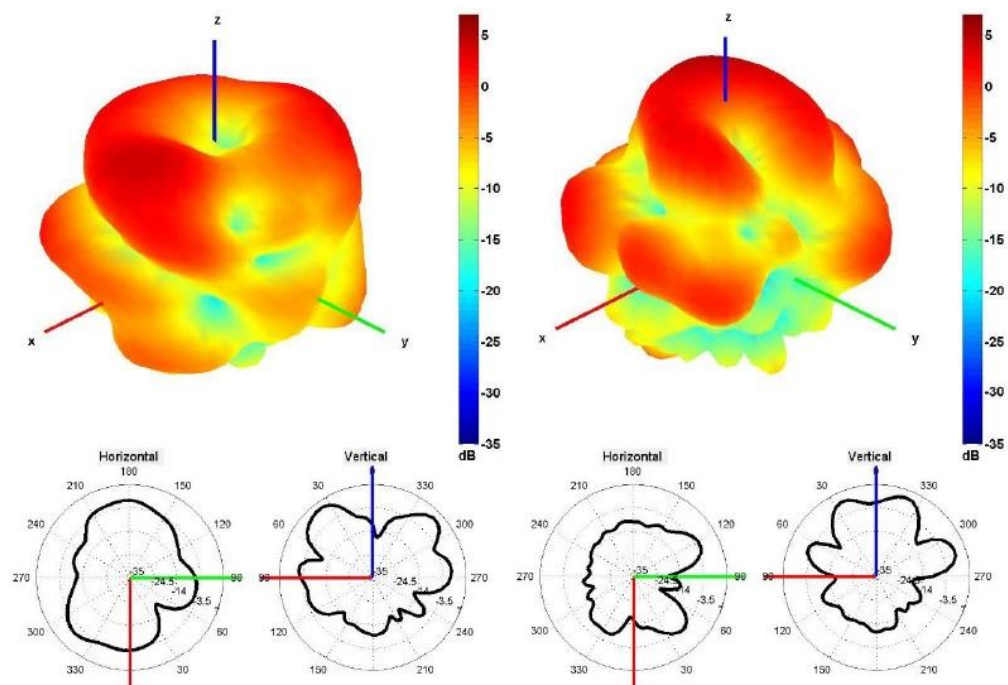
1950 and 2100 MHz Radiation pattern



2350 and 2600 MHz Radiation pattern



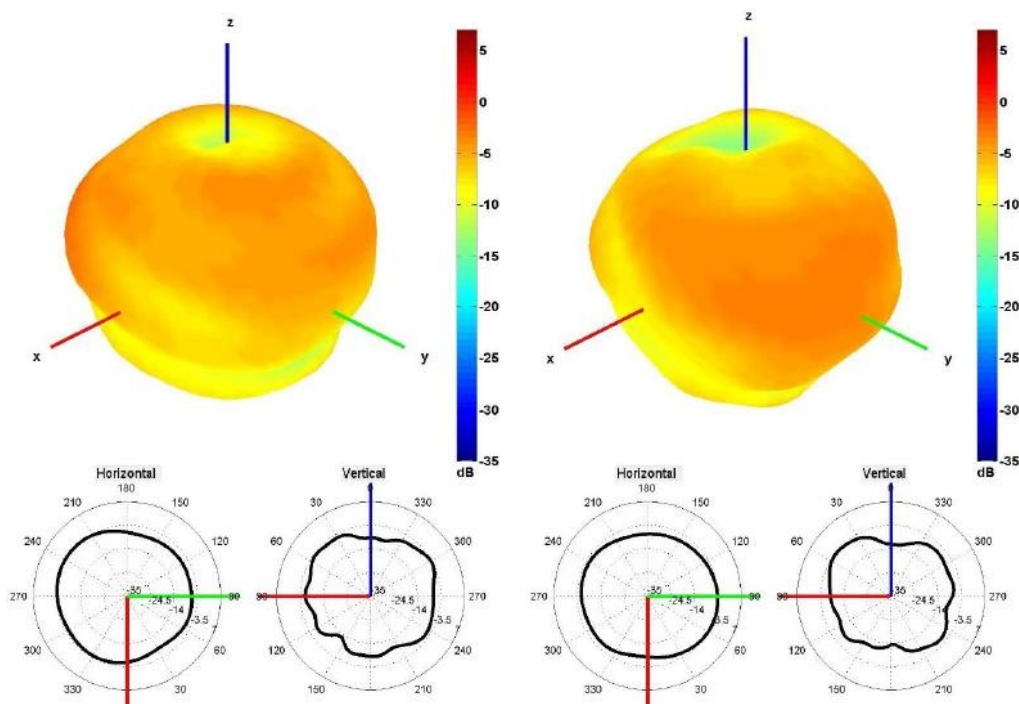
3350 and 3600 MHz Radiation pattern



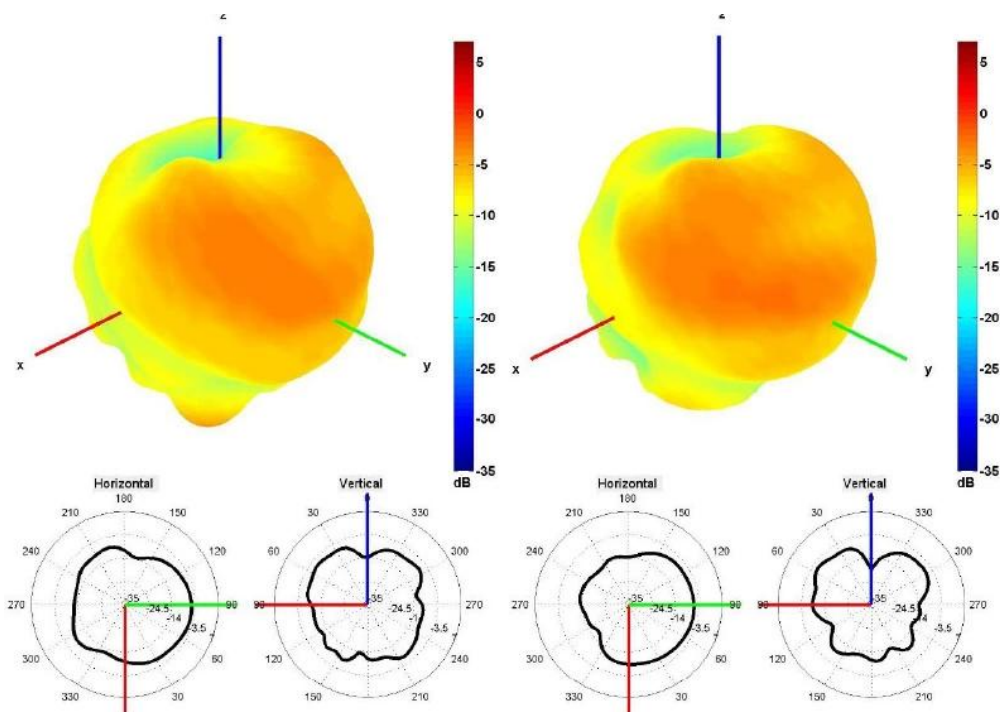
4500 and 5500 MHz Radiation pattern



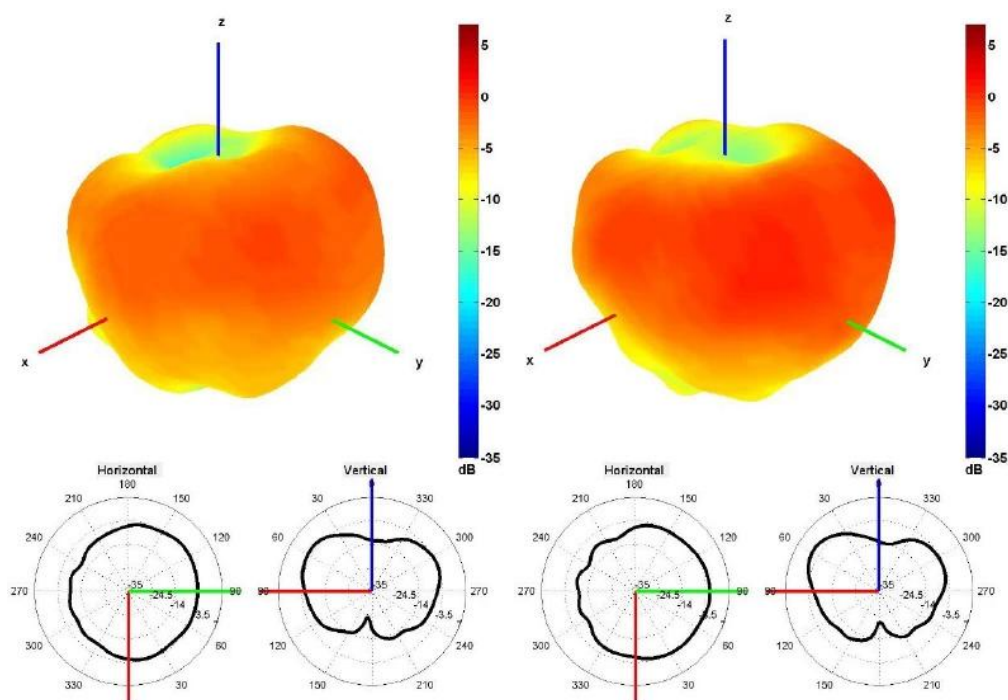
Câble 2 : 2G/3G/4G/5G - IoT/LPWAN



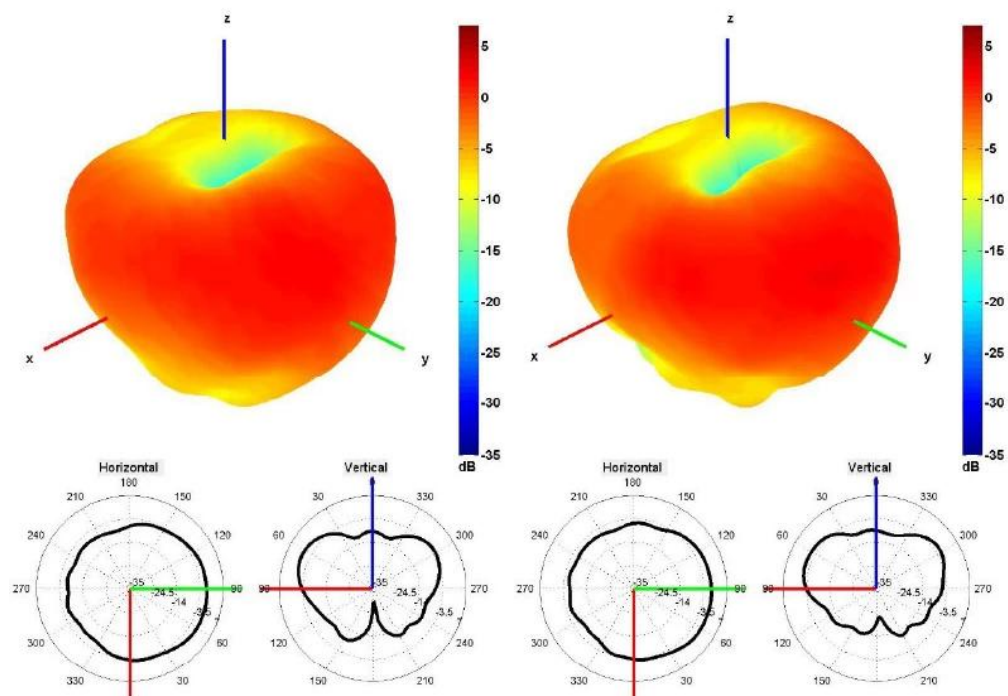
650 and 750 MHz Radiation pattern



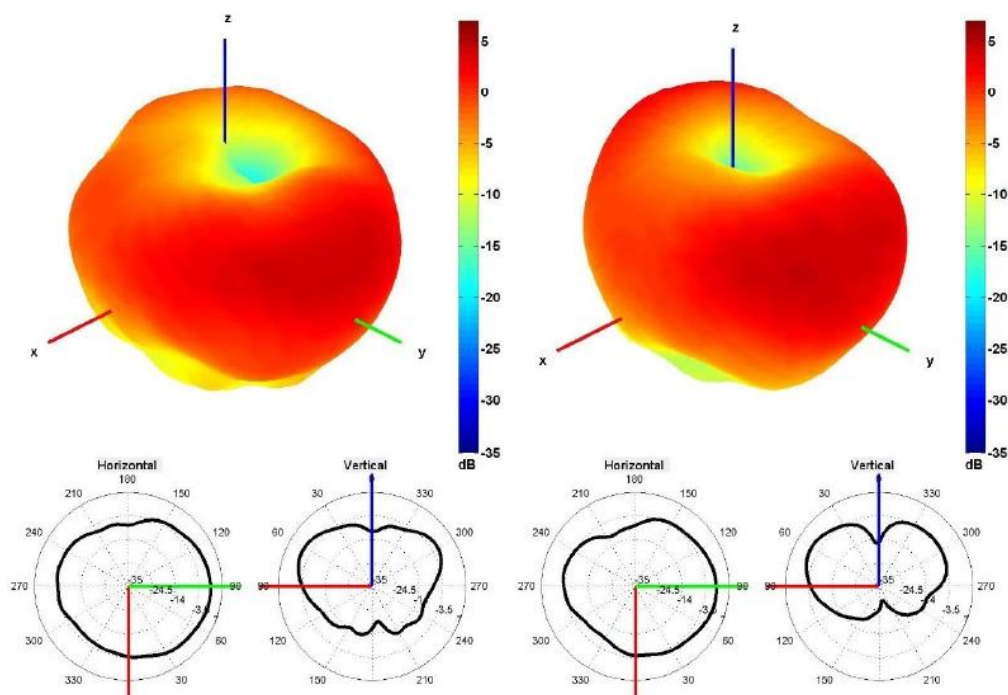
850 and 940 MHz Radiation pattern



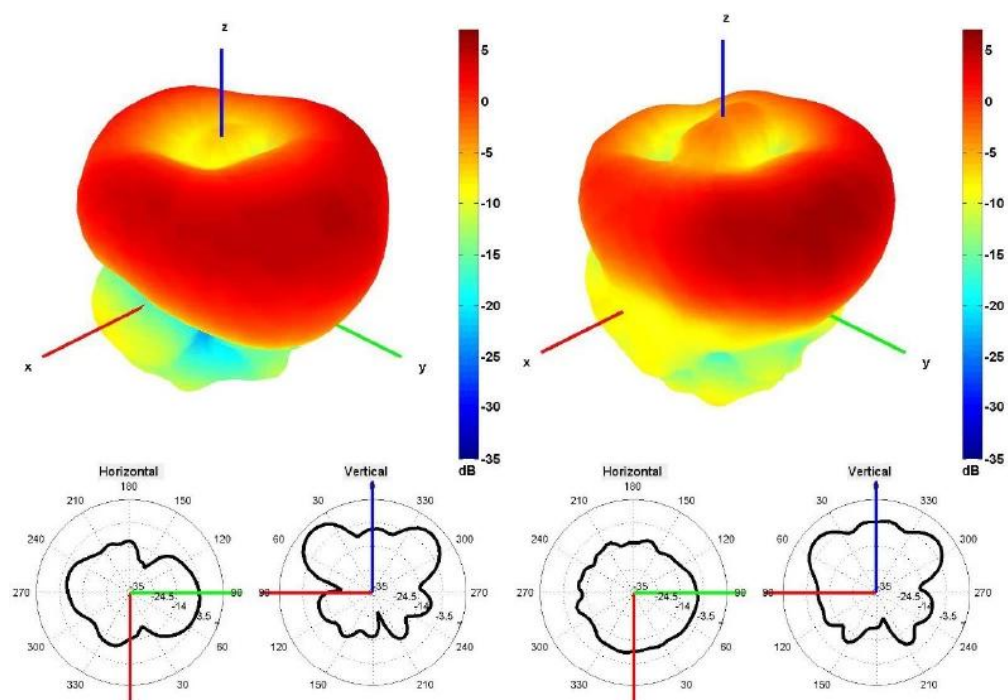
1500 and 1600 MHz Radiation pattern



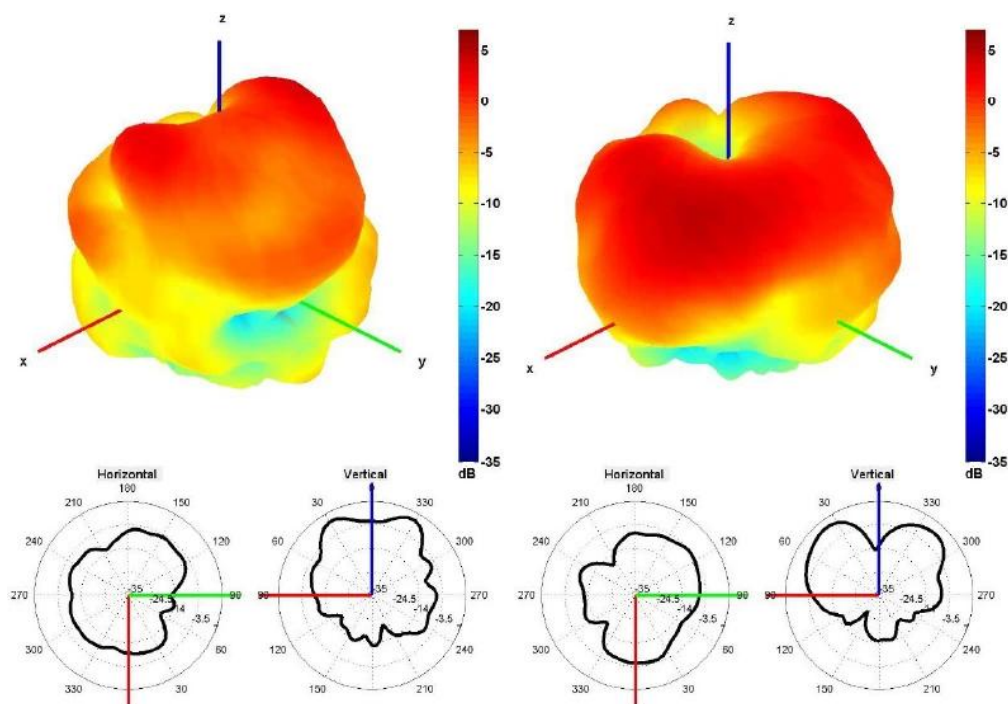
1750 and 1850 MHz Radiation pattern



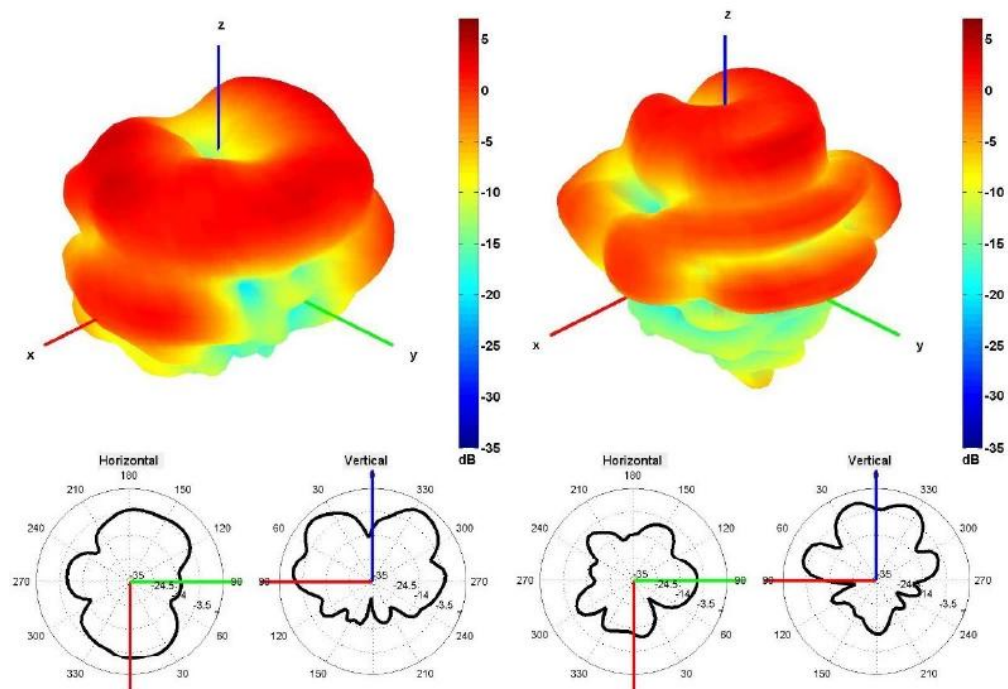
1950 and 2100 MHz Radiation pattern



2350 and 2600 MHz Radiation pattern



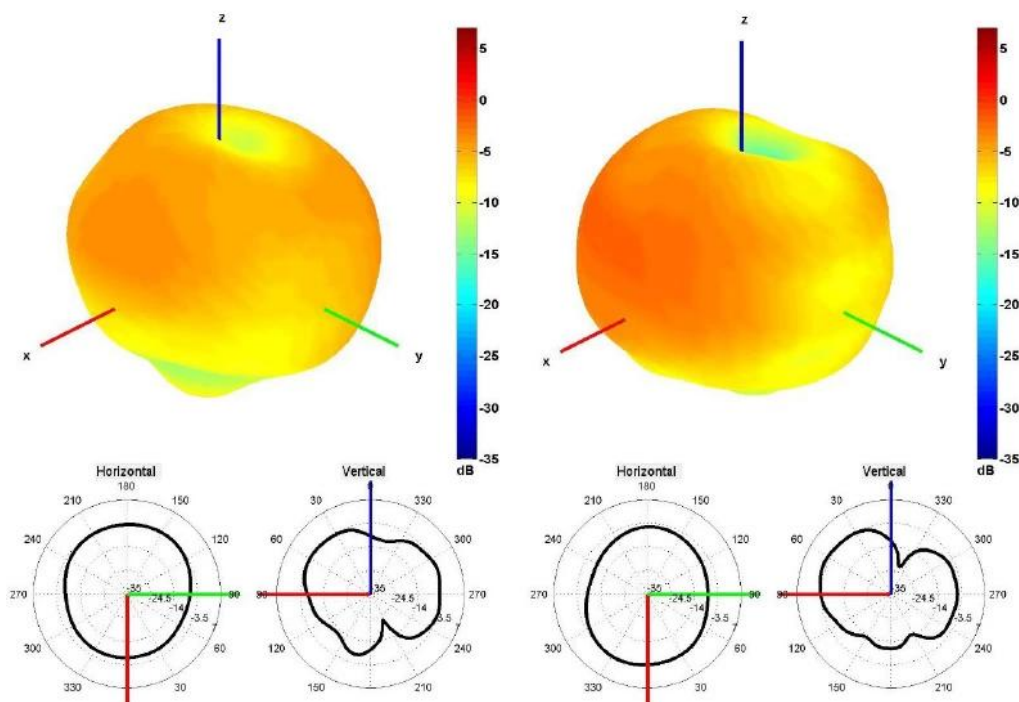
3350 and 3600 MHz Radiation pattern



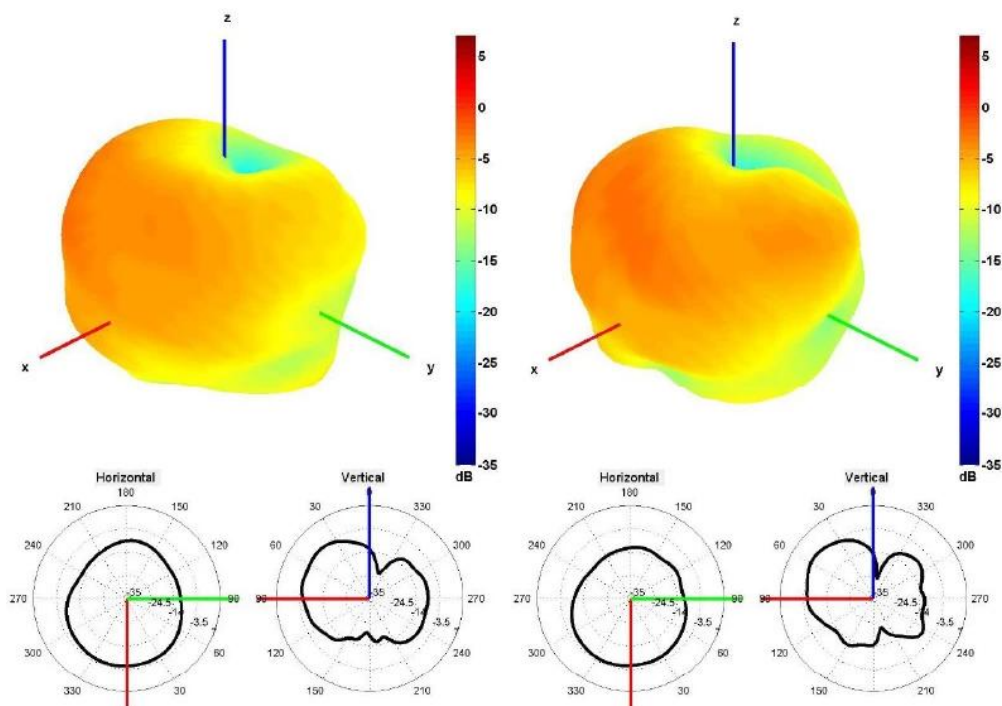
4500 and 5500 MHz Radiation pattern



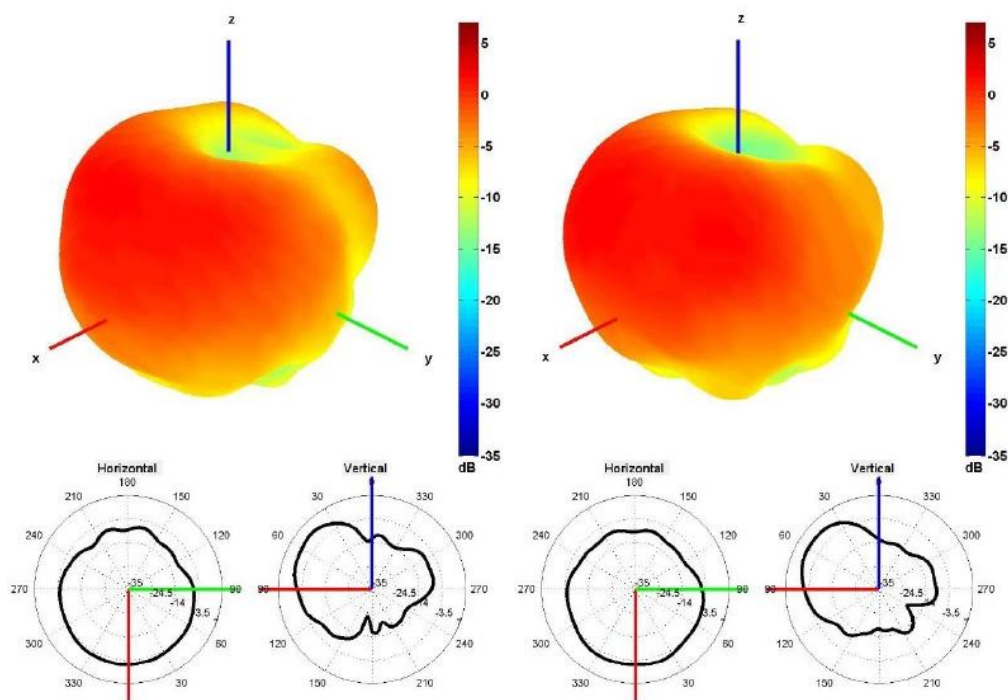
Câble 3 : 2G/3G/4G/5G - IoT/LPWAN



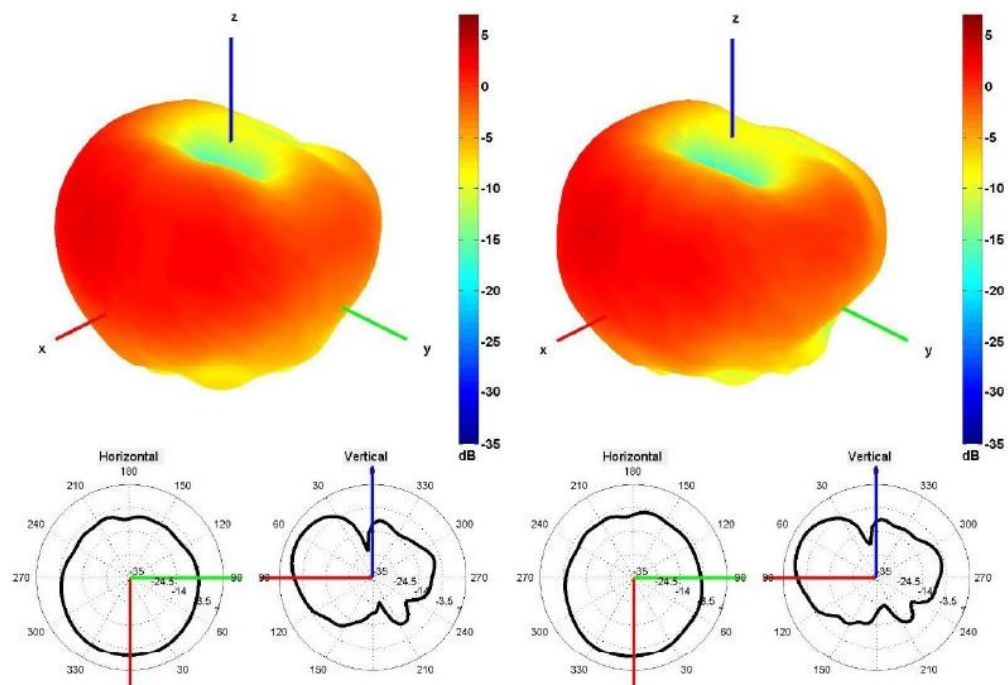
650 and 750 MHz Radiation pattern



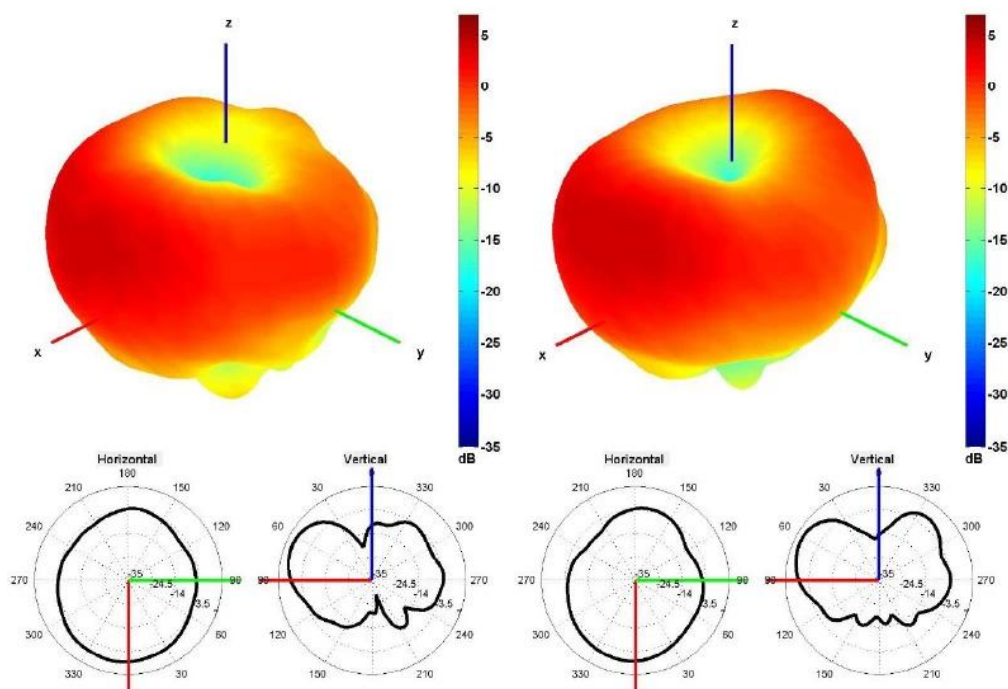
850 and 940 MHz Radiation pattern



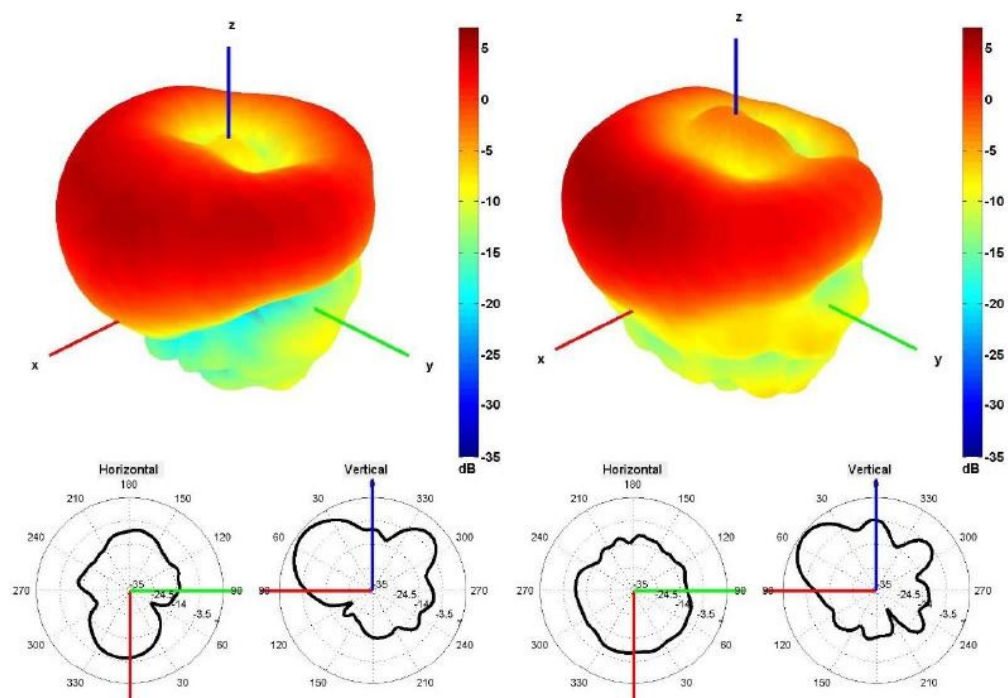
1500 and 1600 MHz Radiation pattern



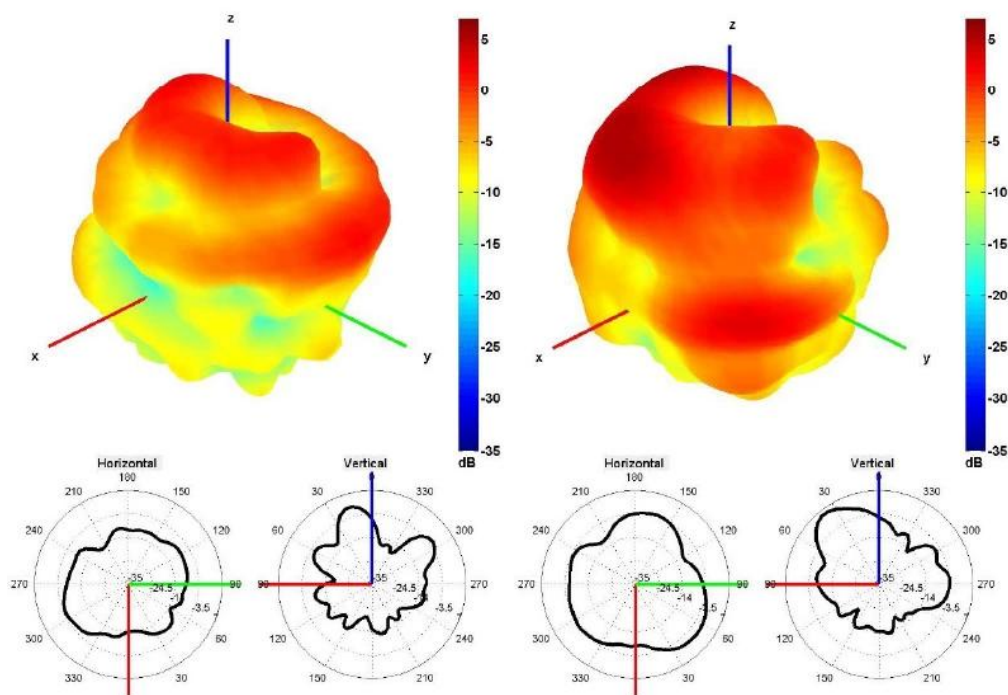
1750 and 1850 MHz Radiation pattern



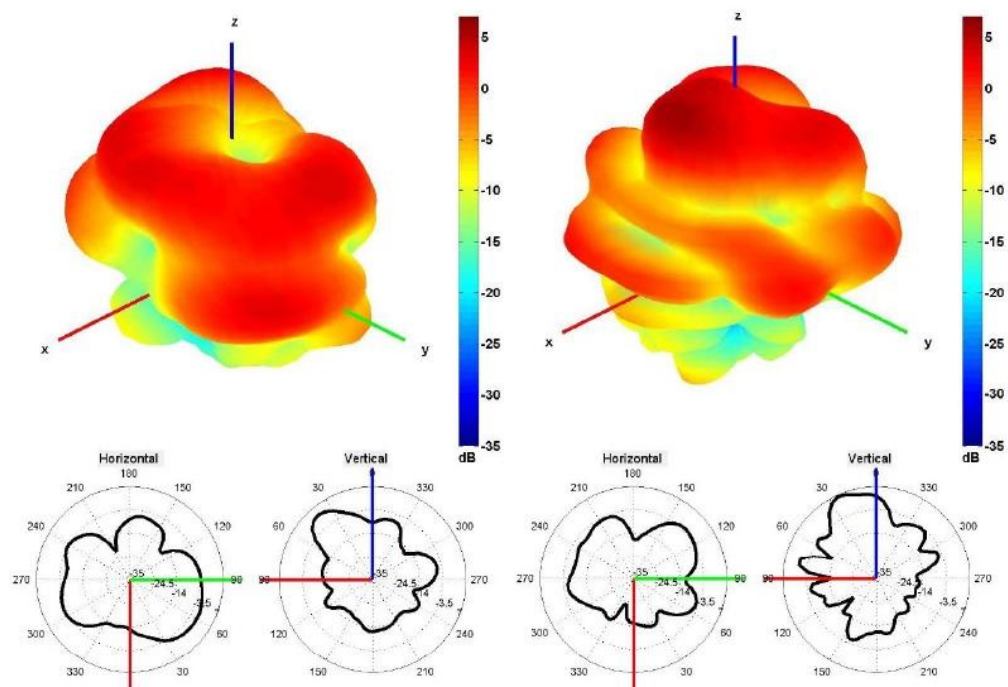
1950 and 2100 MHz Radiation pattern



2350 and 2600 MHz Radiation pattern



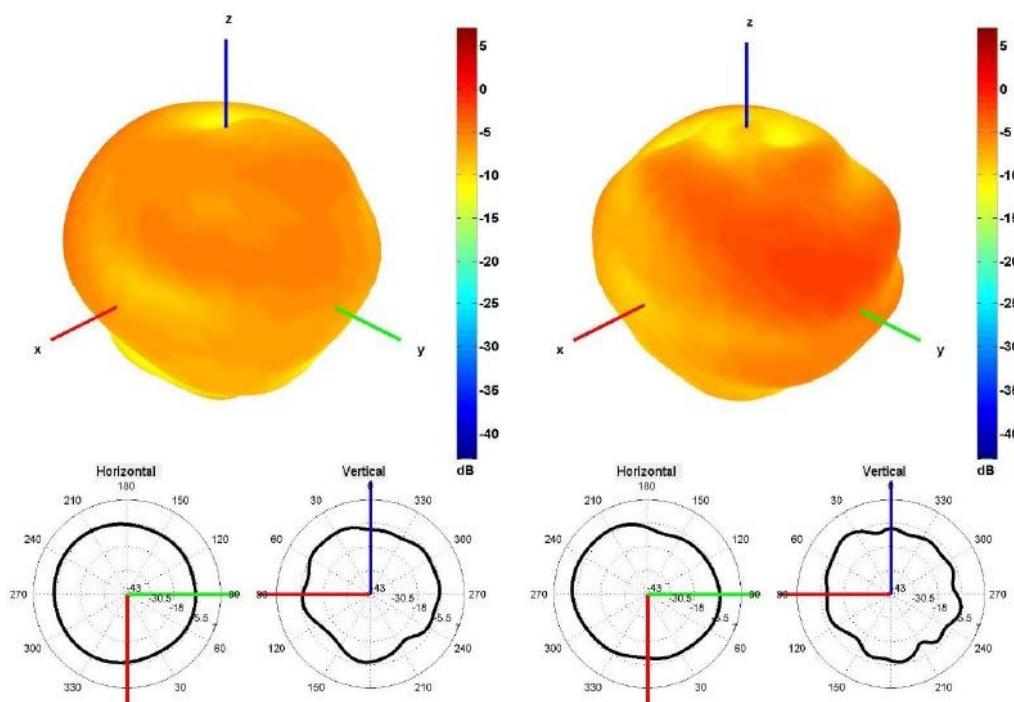
3350 and 3600 MHz Radiation pattern



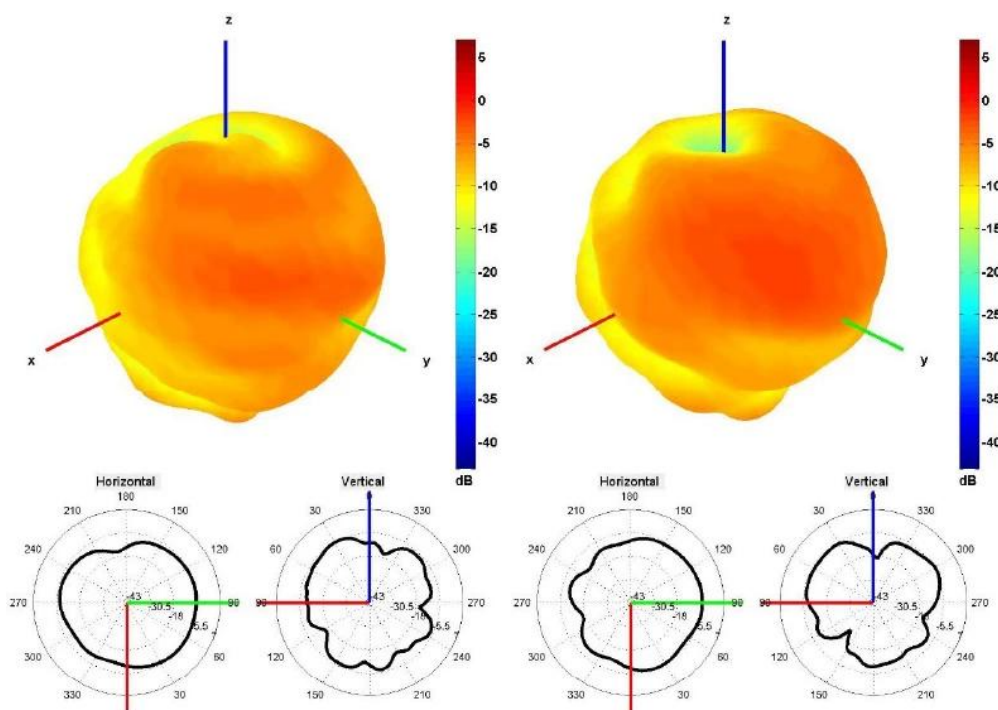
4500 and 5500 MHz Radiation pattern



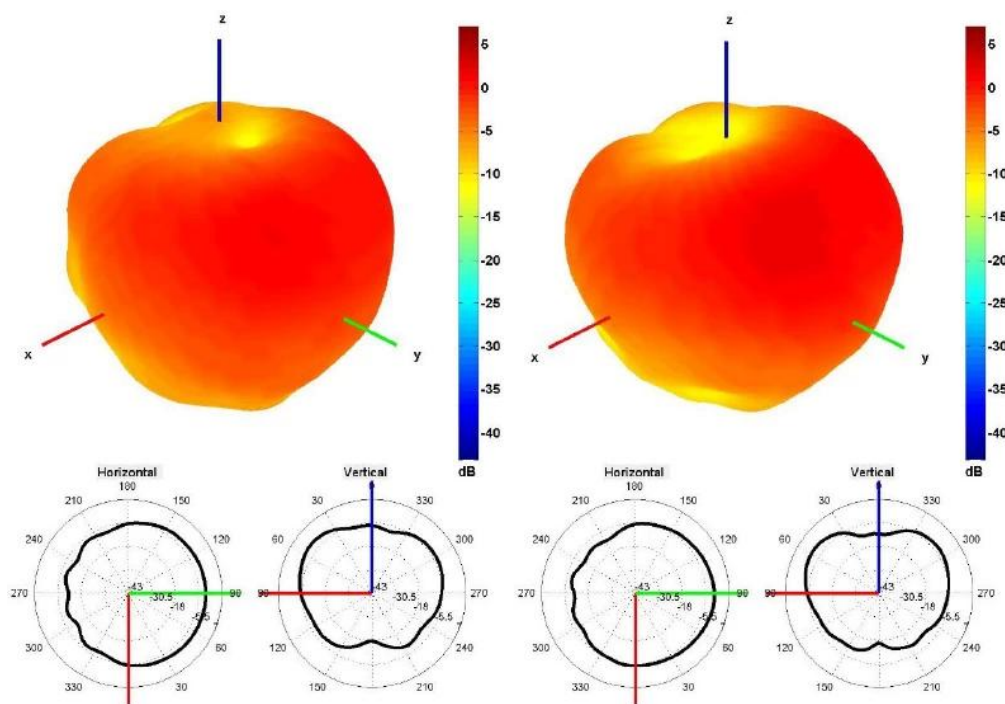
Câble 4 : 2G/3G/4G/5G - IoT/LPWAN



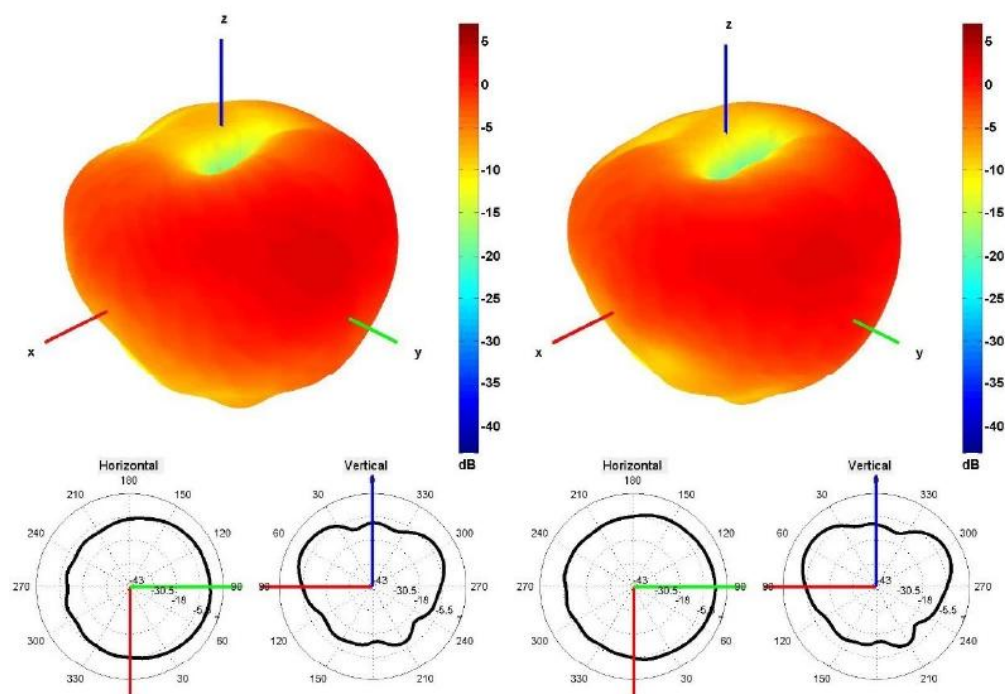
650 and 750 MHz Radiation pattern



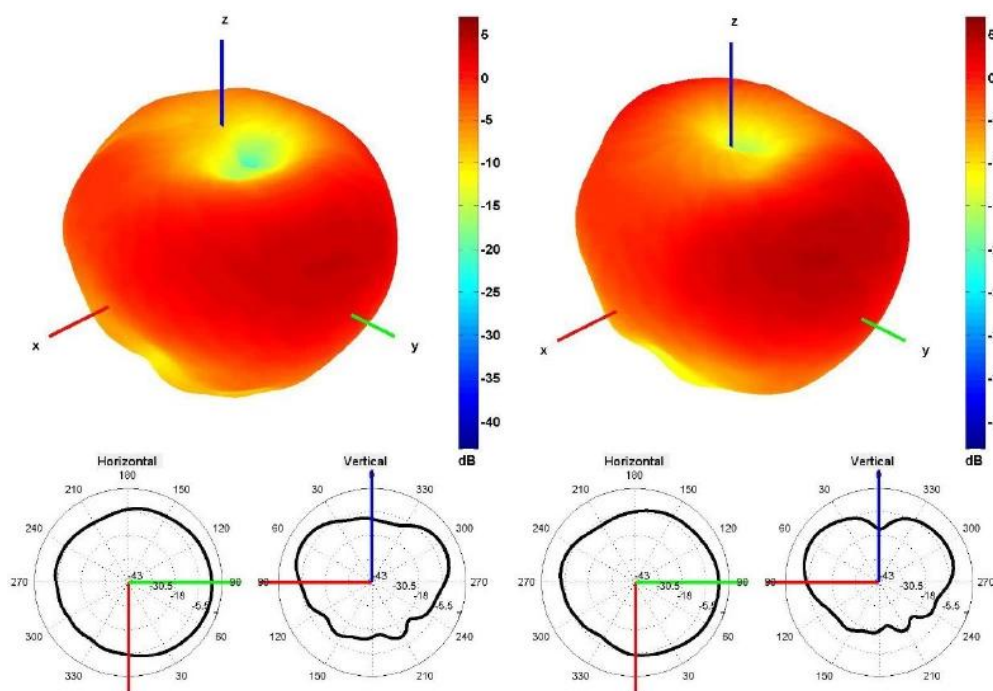
850 and 940 MHz Radiation pattern



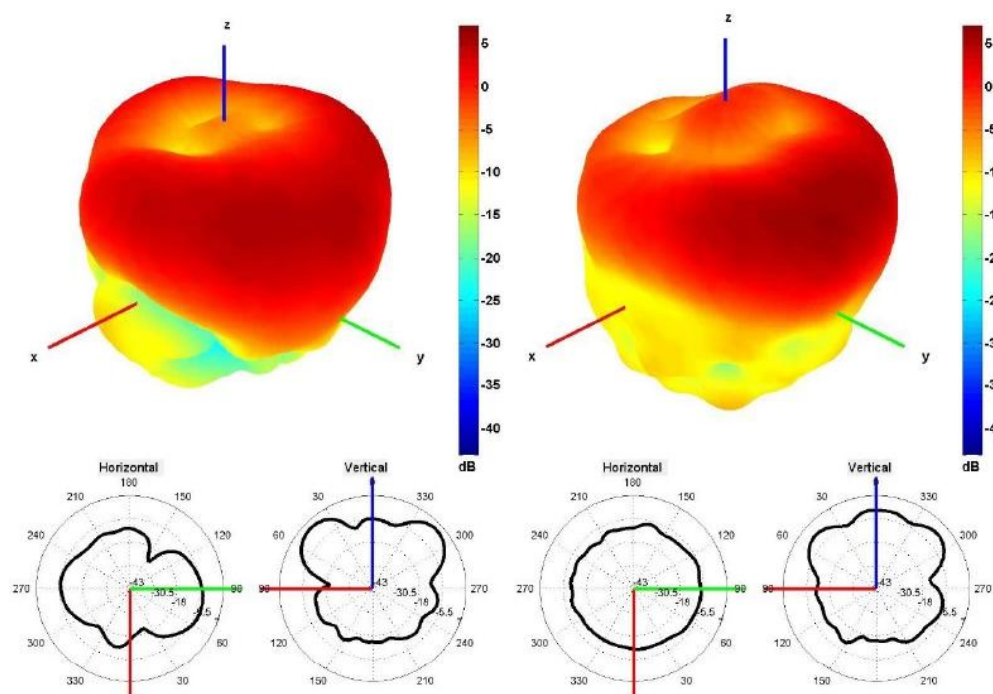
1500 and 1600 MHz Radiation pattern



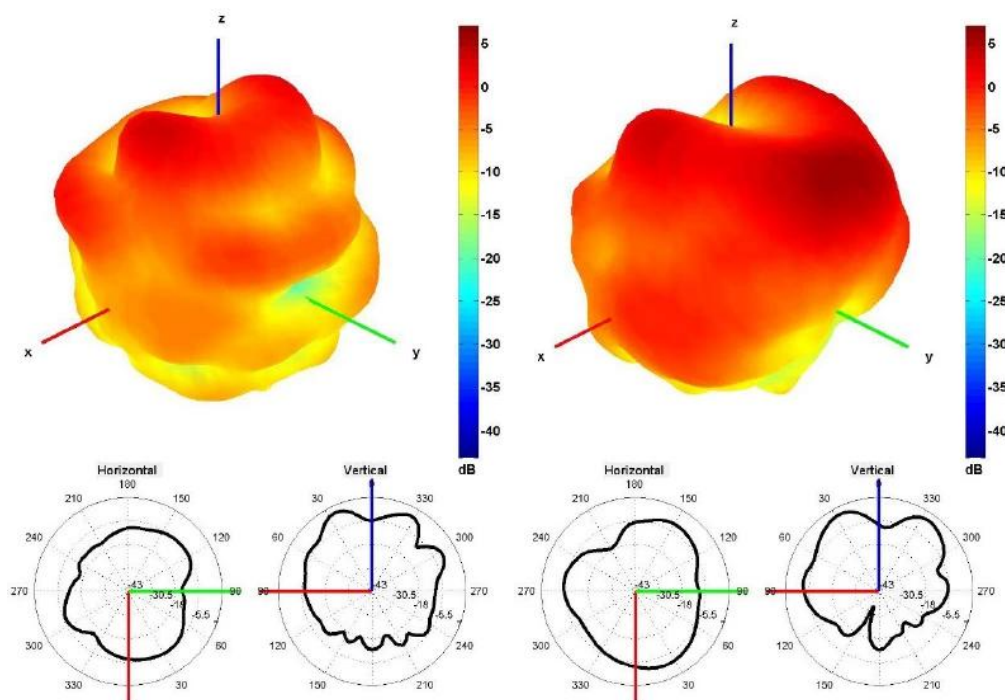
1750 and 1850 MHz Radiation pattern



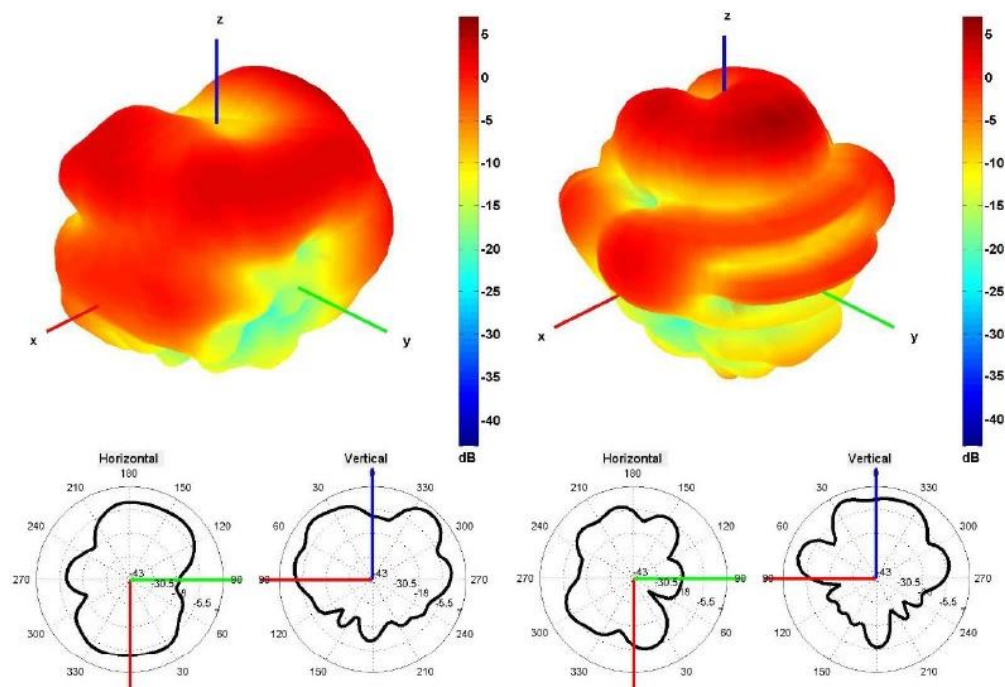
1950 and 2100 MHz Radiation pattern



2350 and 2600 MHz Radiation pattern



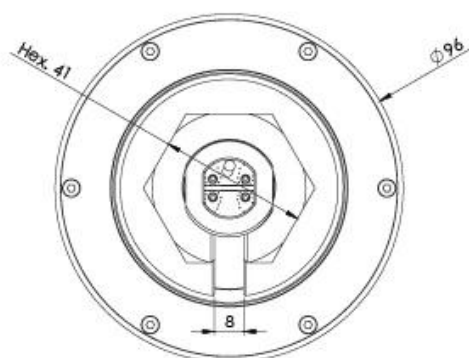
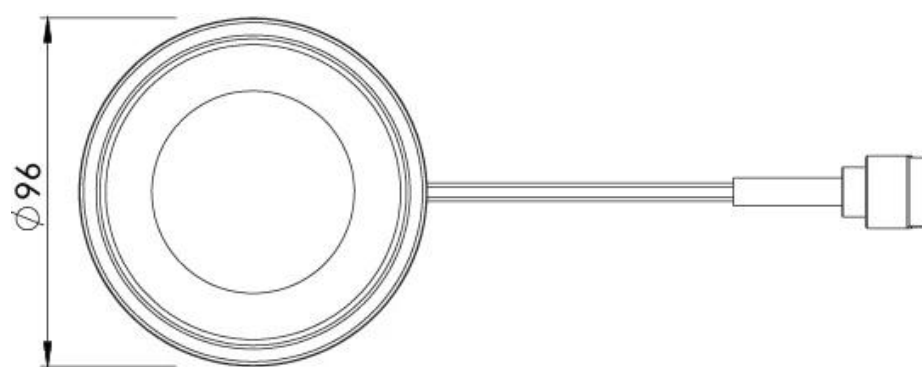
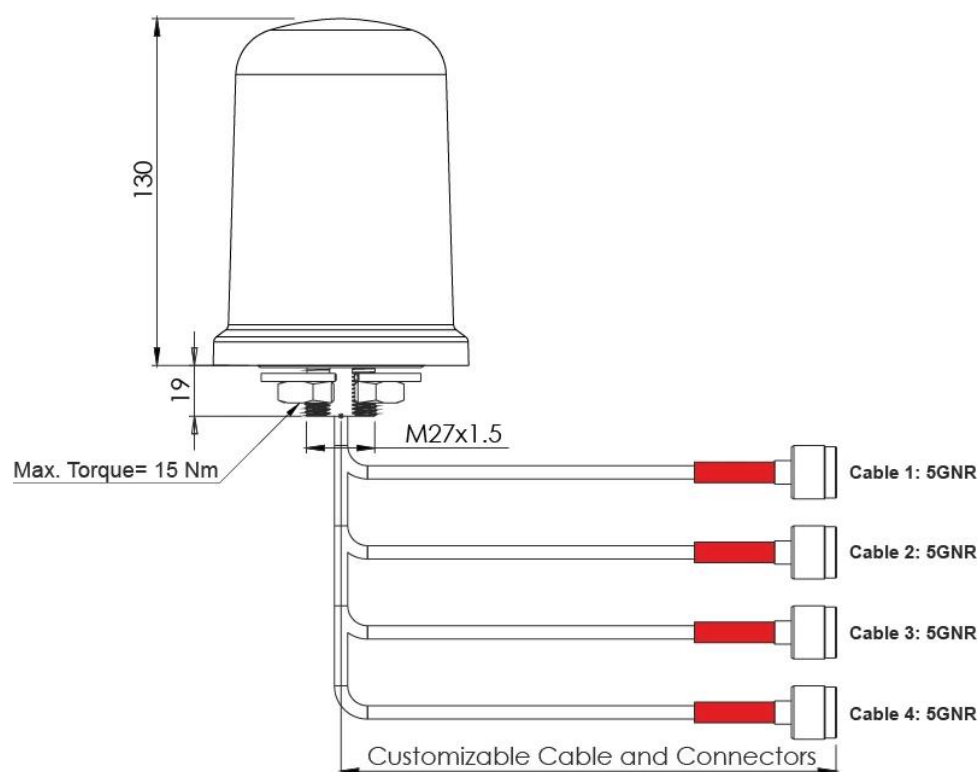
3350 and 3600 MHz Radiation pattern



4500 and 5500 MHz Radiation pattern



## SCHÉMAS



Mounting hole

