



Antenne combinée 4x[5G/4G-LTE 3G/2G LPWA] 4x[2.4/5GHz Wifi6E BT] IP67/IP69 | 2.3dBi à 6.6dBi

Référence GC-4H85Me

Gain	2.3dBi à 6.6dBi
Connecteurs	SMA (M) / SMA-RP (M)
Dimensions (mm)	198 × 127 × 51
T° de fonctionnement	-40°C à +85°C

Existe en blanc et en noir.

L'antenne ultra large bande 8-en-1 GC-4H85Me est conçue pour toutes les bandes GSM, LPWA, ISM 2.4, 5 et 6 GHz.

Cette antenne, offre un gain et une efficacité élevés dans les fréquences 617 MHz - 7125 MHz.

Câbles 1 à 4 : GMS / IoT

Quatre antennes conçues pour les normes 5G, 4G-LTE, FirstNet, CBRS, LPWA, CAT-X, CAT-Mx, CAT-NBx, NB-IoT, 3G, 2G dans les bandes de fréquences 617 - 5925 MHz, tout en maintenant force et qualité de signal à 360 degrés sur toute la plage.

Câbles 5 à 8 : WiFi 6E ISM 2.4, 5 et 6 GHz

Ces antennes sont conçues pour les dispositifs qui fonctionnent dans les normes WiFi, Bluetooth et ISM. Combinant longue et courte portée, elles permettent des canaux à large bande passante, une sécurité améliorée, moins d'interférences et une réduction de la congestion réseau.

INSTALLATION

Fabriquée en matériau ASA stable aux UV, la GC-4H85Me profite d'une certification IP67/IP69 gage d'une protection maximale contre la poussière, l'eau et l'humidité.

Indépendante du plan de masse, cette antenne mesure 198 × 127 × 51 mm et se fixe grâce à son support magnétique pour une installation fiable et durable.

Livrée en standard avec des connecteurs SMA-Mâle (câbles GMS / IoT), SMA-Mâle-RP (câble WiFi 6E ISM 2.4,5GHz) et des câbles D302 de 100cm de long chacun, elle reste entièrement personnalisable sur demande.



CARACTÉRISTIQUES

Caractéristiques communes Câbles 1, 2, 3 et 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		
IMPÉDANCE (OHMS)	50			
POLARISATION	Linéaire			
RAYONNEMENT	Omnidirectionnel			
PUISSANCE D'ENTRÉE MAX. (W)	25			
CONNECTEUR	SMA-mâle standard (autres connecteurs disponibles)			
LONGUEUR DU CÂBLE	300 cm standard (toute longueur de câble disponible)			
TYPE DE CÂBLE	Norme D302 (autres câbles disponibles)			



Câble 1

PERTE DE RETOUR (DB)	~-16,3	~-14,9	~-13,1	~-12,9
VSWR	~1.5:1	~1.5:1	~1.7:1	~1.7:1
EFFICIENCE (%)	~58,0	~49,4	~32,3	~32,1
GAIN DE CRÊTE (DBI)	~3,2	~5,2	~4,5	~4,5
GAIN MOYEN (DB)	~-2,4	~-3,1	~-4,9	~-5,0

Câble 2

PERTE DE RETOUR (DB)	~-14,9	~-14,6	~-15,3	~-15,2
VSWR	~1.6:1	~1.5:1	~1.6:1	~1.4:1
EFFICIENCE (%)	~58,1	~47,0	~35,5	~39,8
GAIN DE CRÊTE (DBI)	~3,9	~5,8	~5,6	~6,6
GAIN MOYEN (DB)	~-2,4	~-3,3	~-4,6	~-4,0

Câble 3

PERTE DE RETOUR (DB)	~-16,2	~-14,2	~-14,4	~-13,2
VSWR	~1.6:1	~1.6:1	~1.6:1	~1.6:1
EFFICIENCE (%)	~58,0	~46,7	~35,8	~36,7
GAIN DE CRÊTE (DBI)	~3,4	~5,8	~5,3	~5,7
GAIN MOYEN (DB)	~-2,4	~-3,3	~-4,5	~-4,4

Câble 4

PERTE DE RETOUR (DB)	~-16,2	~-15,5	~-13,1	~-13,1
VSWR	~1.4:1	~1.5:1	~1.7:1	~1.6:1
EFFICIENCE (%)	~58,2	~47,3	~33,9	~37,6
GAIN DE CRÊTE (DBI)	~3,5	~5,7	~5,1	~5,8
GAIN MOYEN (DB)	~-2,4	~-3,3	~-4,7	~-4,3



Caractéristiques communes Câbles 5, 6, 7 et 8 (ISM 2.4/5 et 6 GHz – WiFi, Bluetooth, ZigBee)

BANDE(S) (MHZ)	2,4 GHz	5,0 GHz	6,0 GHz
FRÉQUENCE(S) (MHZ)	2410-2490	4920-5925	5925-7125
IMPÉDANCE (OHMS)	50		
POLARISATION / RAYONNEMENT	Linéaire / Omnidirectionnel		
PUISSANCE D'ENTRÉE MAX. (W)	25		
CONNECTEUR	SMA-Mâle-RP Standard (autres connecteurs disponibles)		
LONGUEUR DU CÂBLE	300 cm standard (toute longueur de câble disponible)		
TYPE DE CÂBLE	Norme D302 (autres câbles disponibles)		

Câble 5

PERTE DE RETOUR (DB)	~-13,4	~-16,0	~-13,4
VSWR	~1.6:1	~1.5:1	~1.6:1
EFFICIENCE (%)	~31,1	~22,8	~31,1
GAIN DE CRÊTE (DBI)	~4,6	~3,3	~4,6
GAIN MOYEN (DB)	~-5,1	~-6,5	~-5,1

Câble 6

PERTE DE RETOUR (DB)	~-12,9	~-13,2	~-11,9
VSWR	~1.7:1	~1.7:1	~1.8:1
EFFICIENCE (%)	~37,7	~31,2	~42,6
GAIN DE CRÊTE (DBI)	~6,1	~4,5	~3,2
GAIN MOYEN (DB)	~-4,2	~-5,1	~-3,5

Câble 7

PERTE DE RETOUR (DB)	~-19,2	~-14,8	~-13,3
VSWR	~1.3:1	~1.6:1	~1.2:1
EFFICIENCE (%)	~37,9	~34,5	~44,7
GAIN DE CRÊTE (DBI)	~2,7	~2,3	~3,2
GAIN MOYEN (DB)	~-4,2	~-4,6	~-3,4



Câble 8

PERTE DE RETOUR (DB)	~-16,5	~-16,8	~-7,5
VSWR	~1.4:1	~1.4:1	~1.6:1
EFFICIENCE (%)	~36,7	~30,8	~39,7
GAIN DE CRÊTE (DBI)	~4,4	~2,6	~3,0
GAIN MOYEN (DB)	~-4,4	~-5,1	~-4,1

Conditions de mesure de l'antenne :

- Montée sur plaque métallique de 30 × 30 cm
- 100 cm de Câble D302
- Mesurée dans une chambre anéchoïque certifiée CTIA 3D

SPÉCIFICATIONS

TYPE DE MONTAGE	Monture magnétique
DIMENSIONS (MM)	198 × 127 × 51
MATÉRIAU RADÔME	ASA
COULEUR RADÔME	Noir
T° DE FONCTIONNEMENT (°C)	-40 à +85
T° DE STOCKAGE (°C)	-40 à +85
CERTIFICATION(S)	RoHS
INDICE(S) DE PROTECTION	IP67, IP69, CE

ENVIRONNEMENT

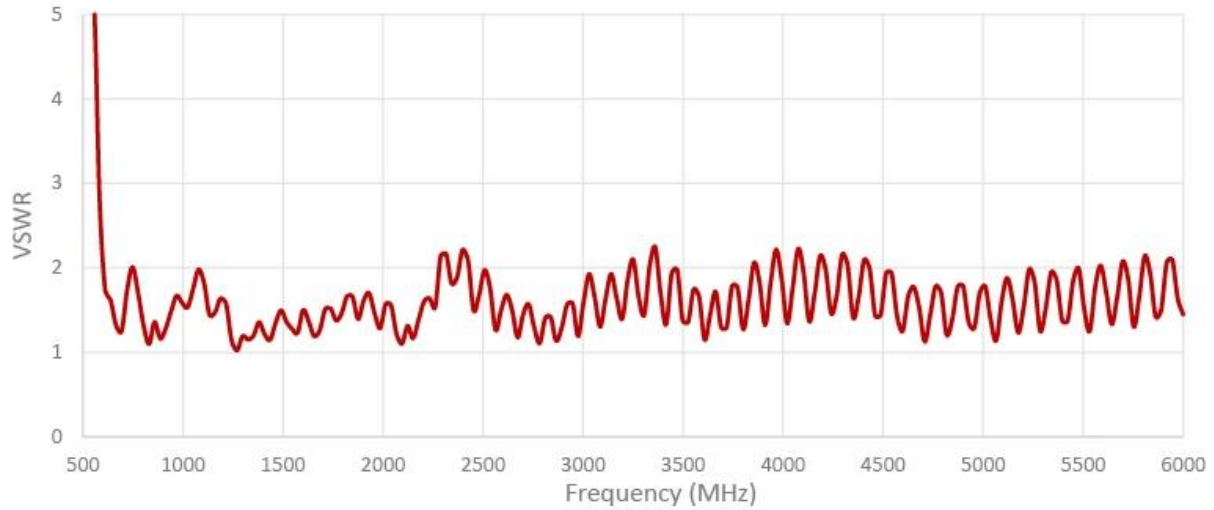
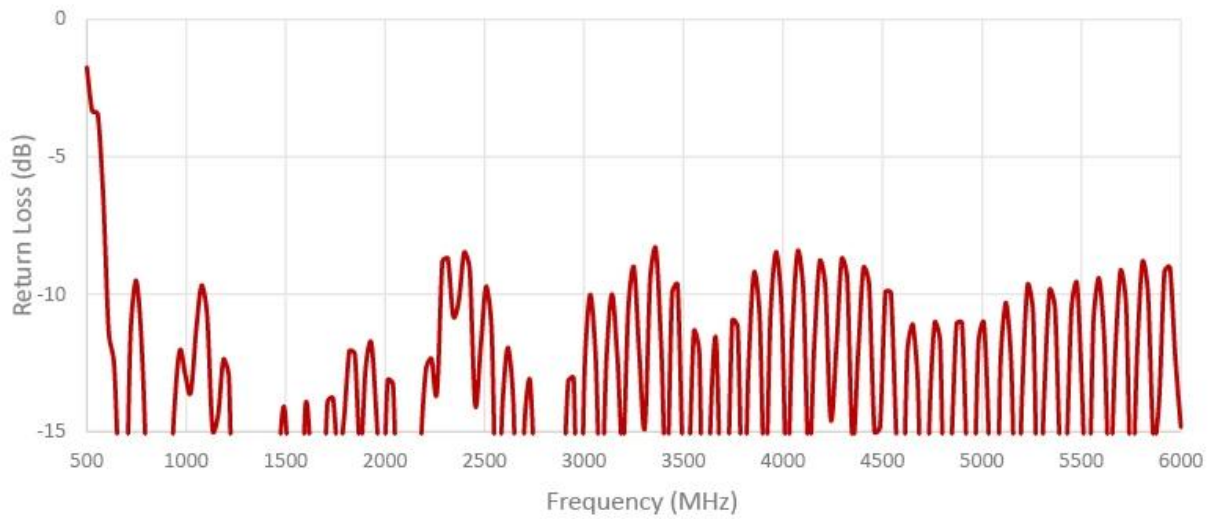
Cette gamme d'antenne est fabriquée sans matières dangereuses tout en maintenant une conformité totale avec REACH et RoHS.

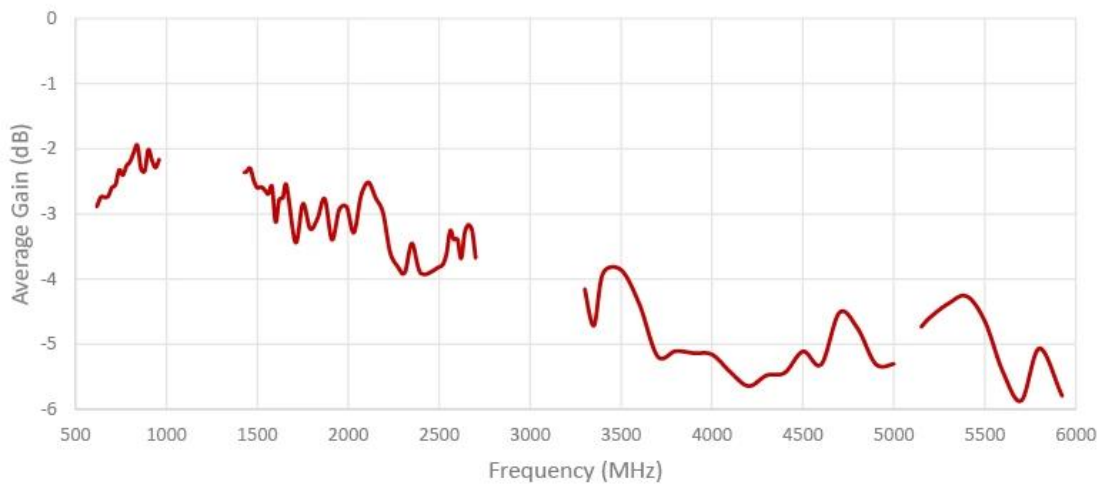
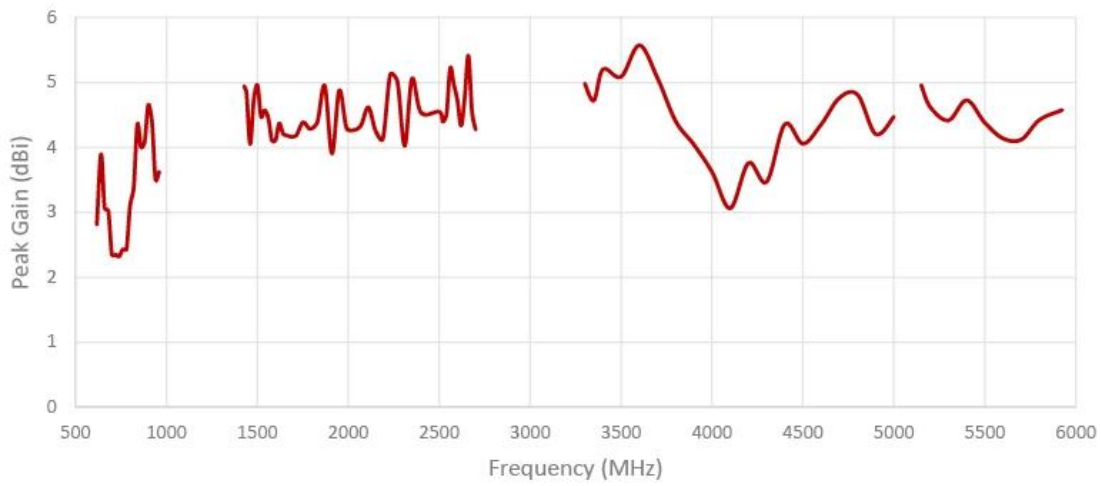
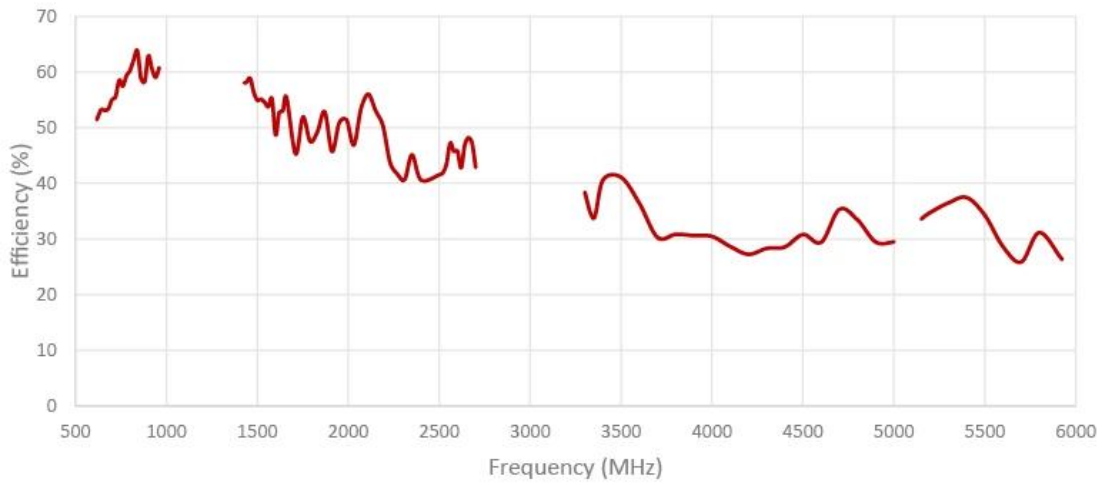




MESURES

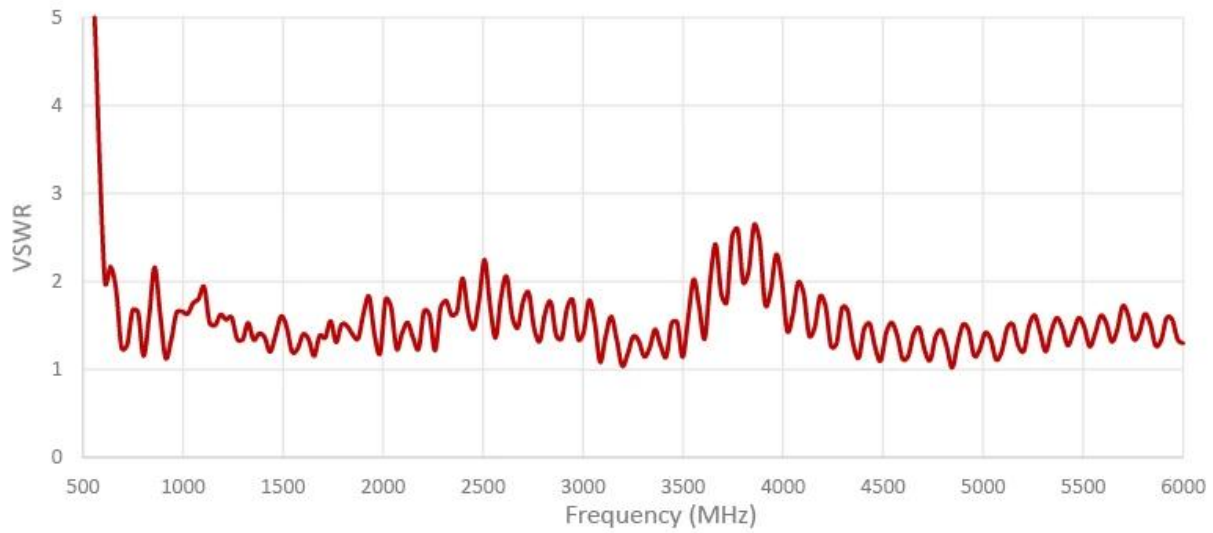
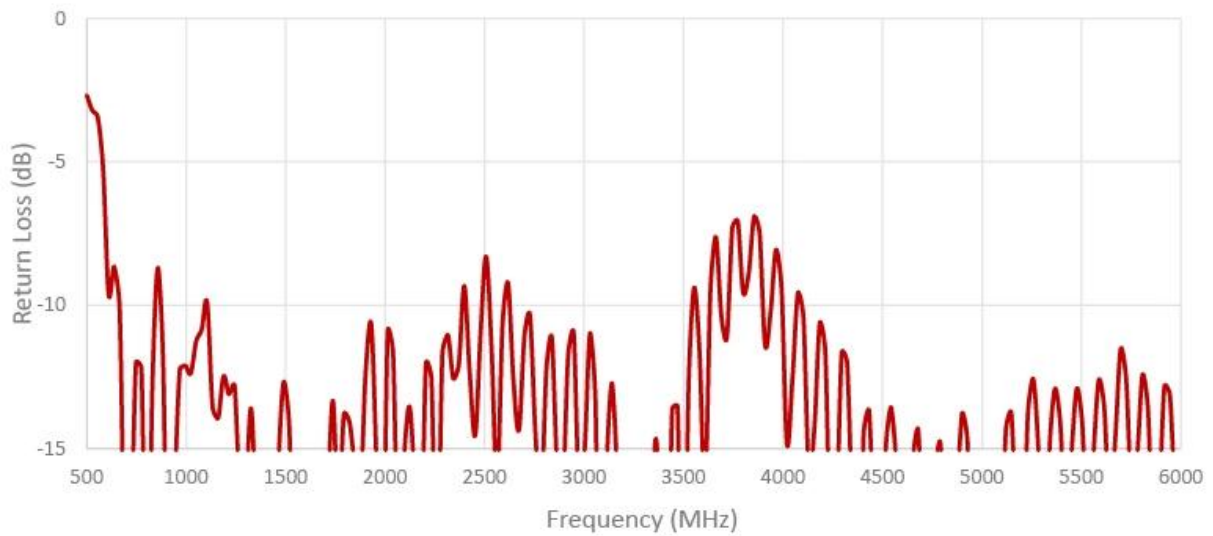
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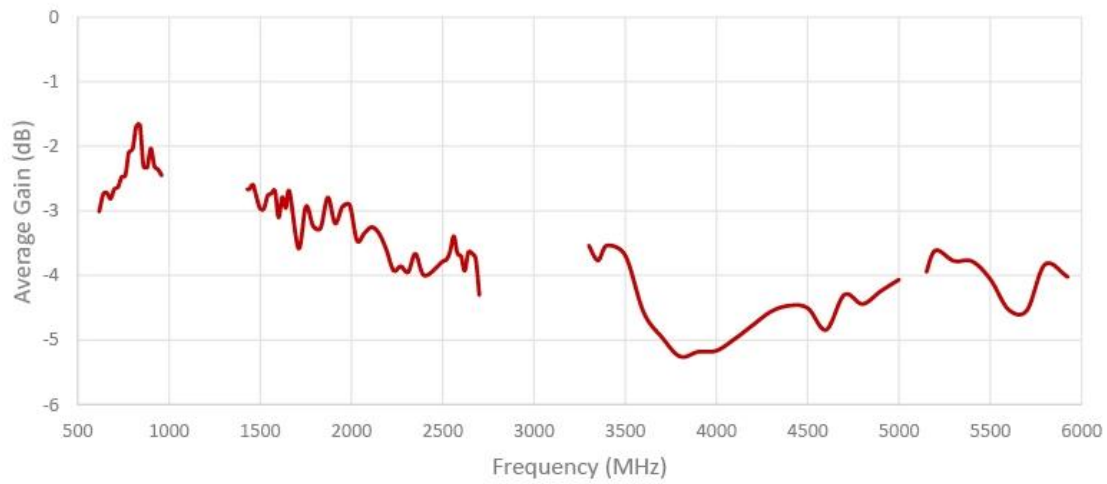
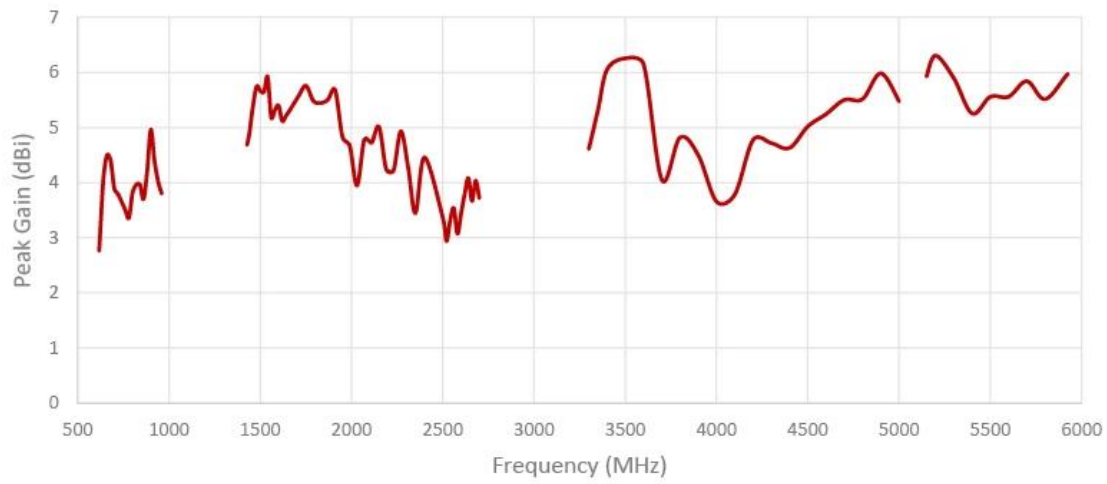
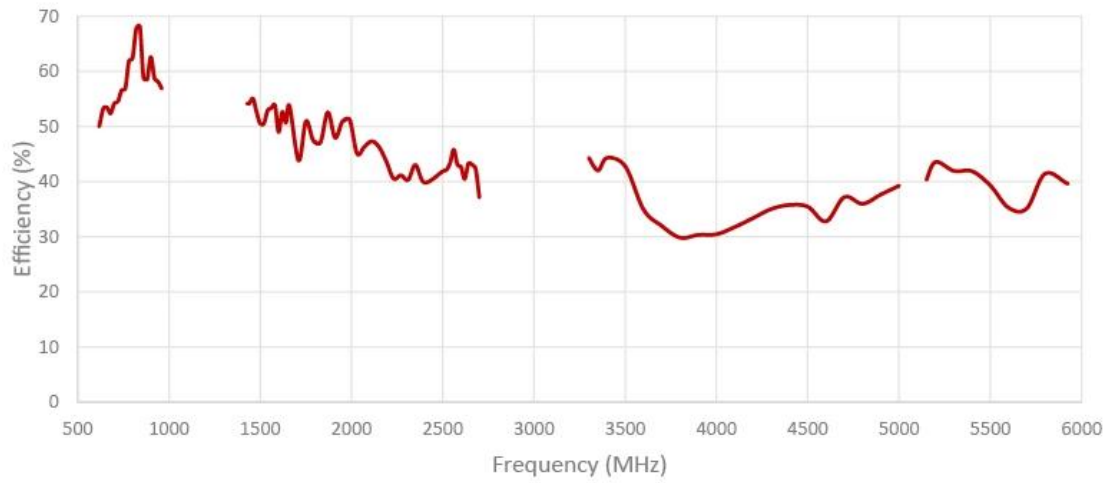






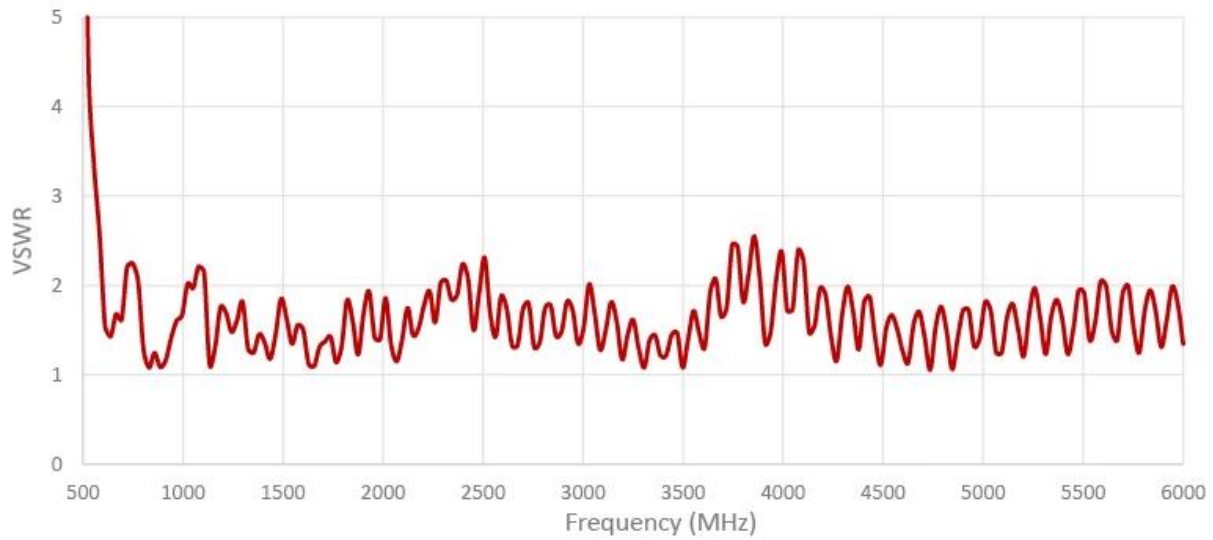
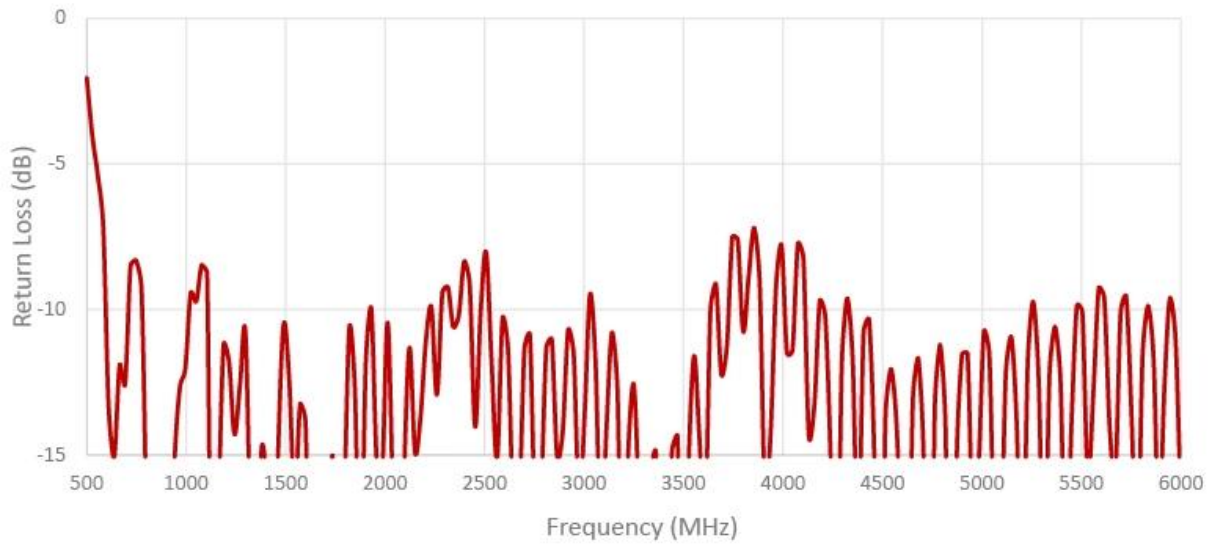
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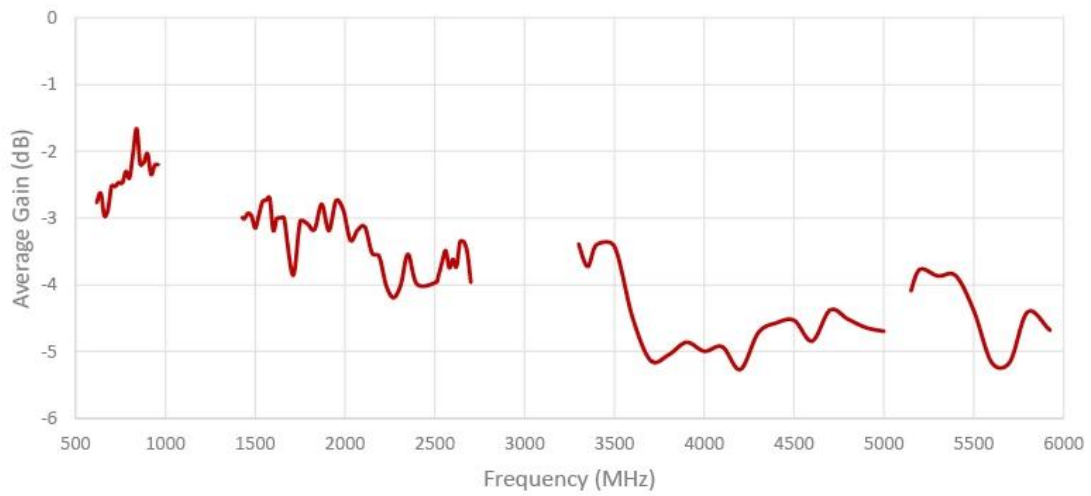
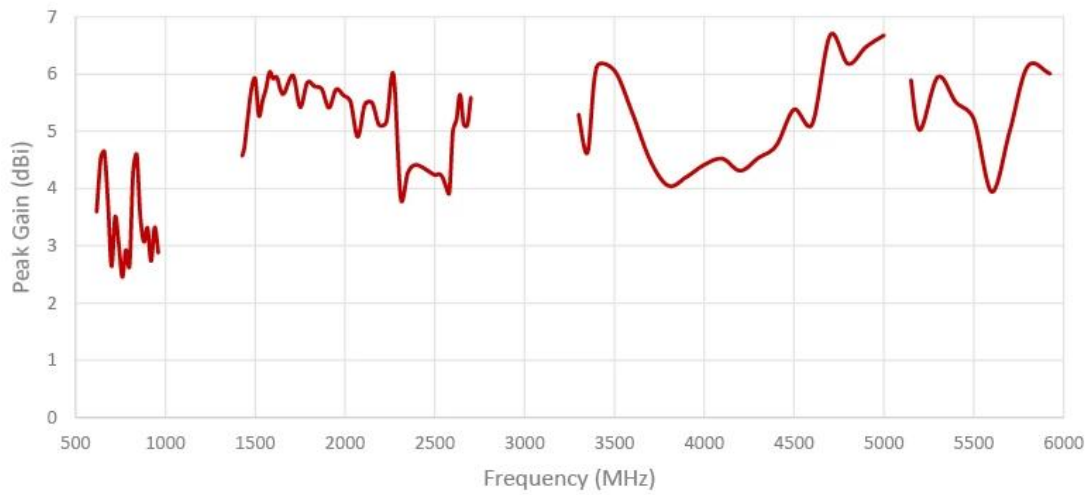
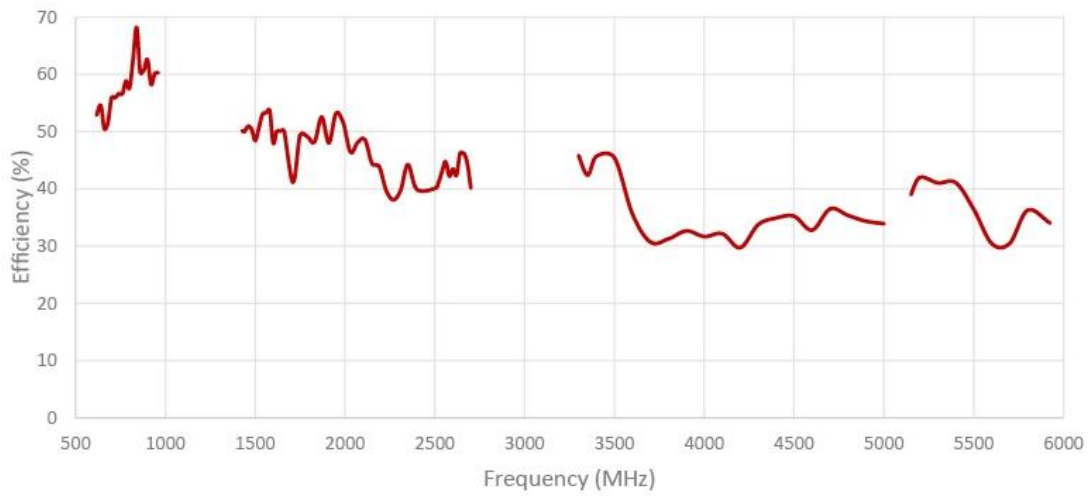






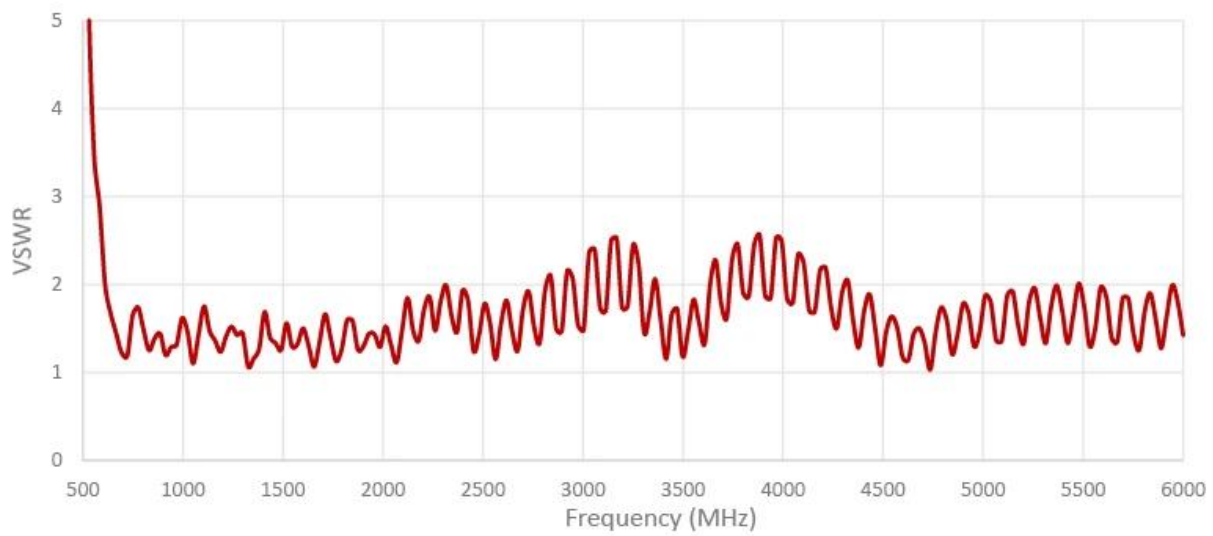
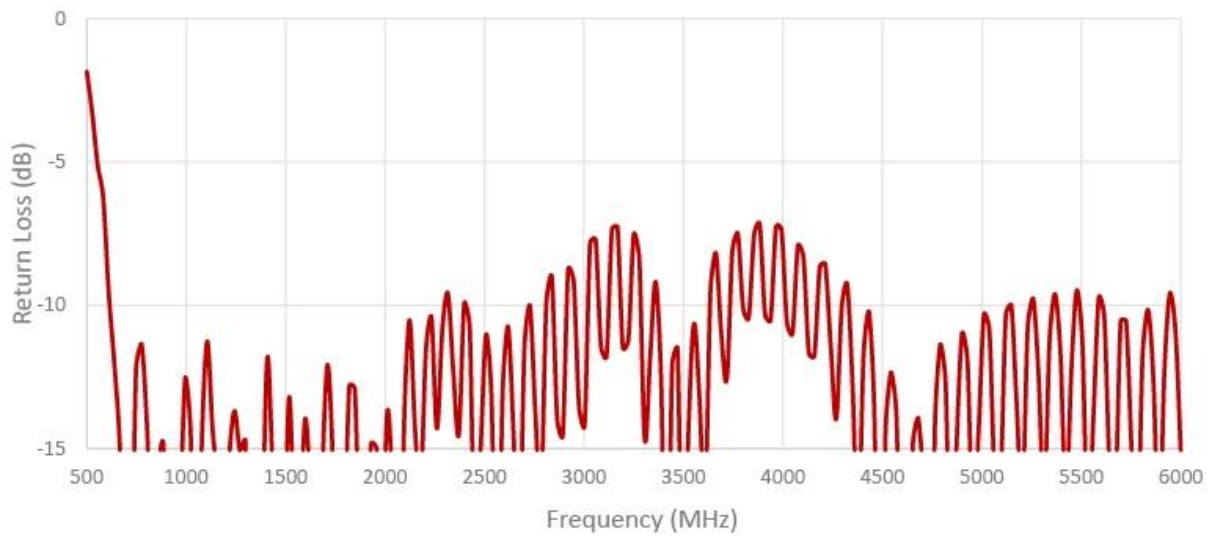
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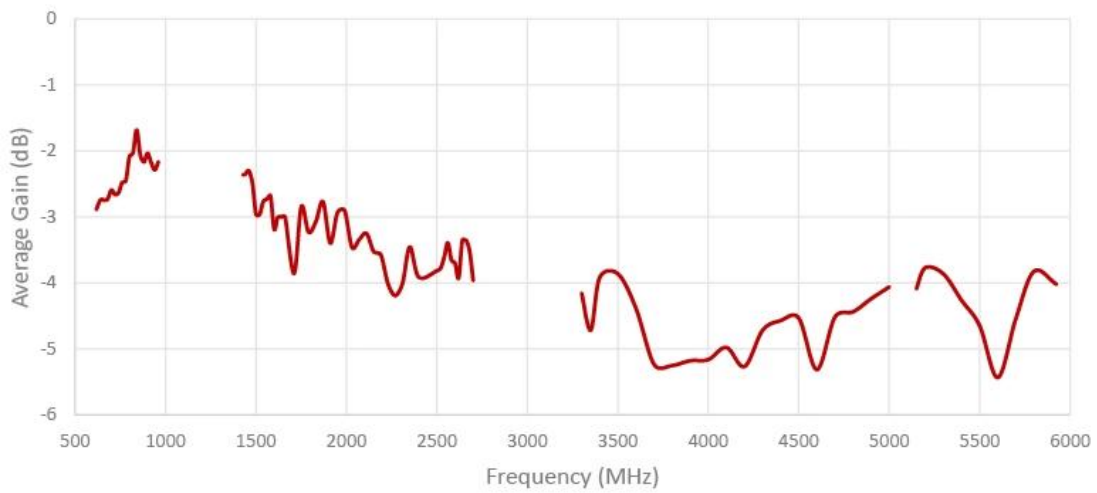
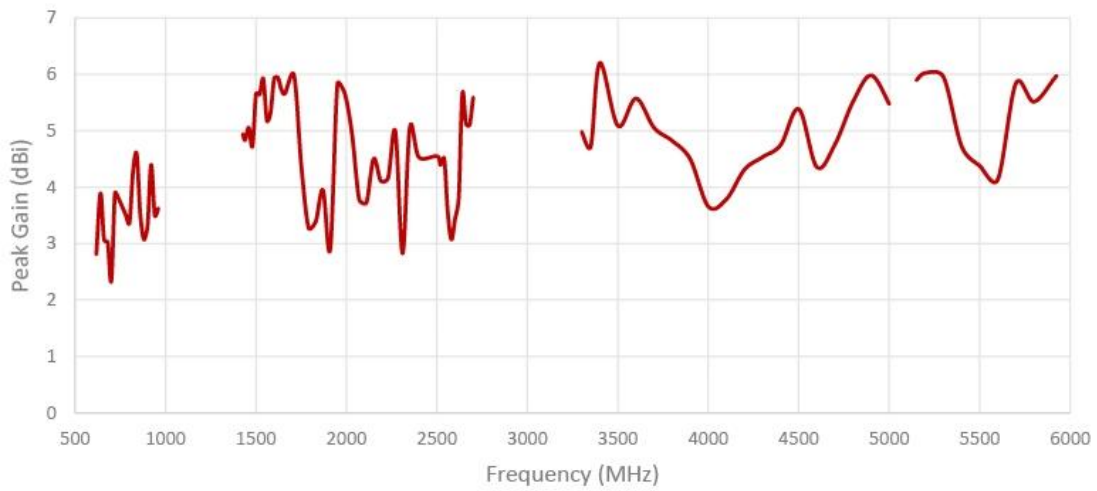
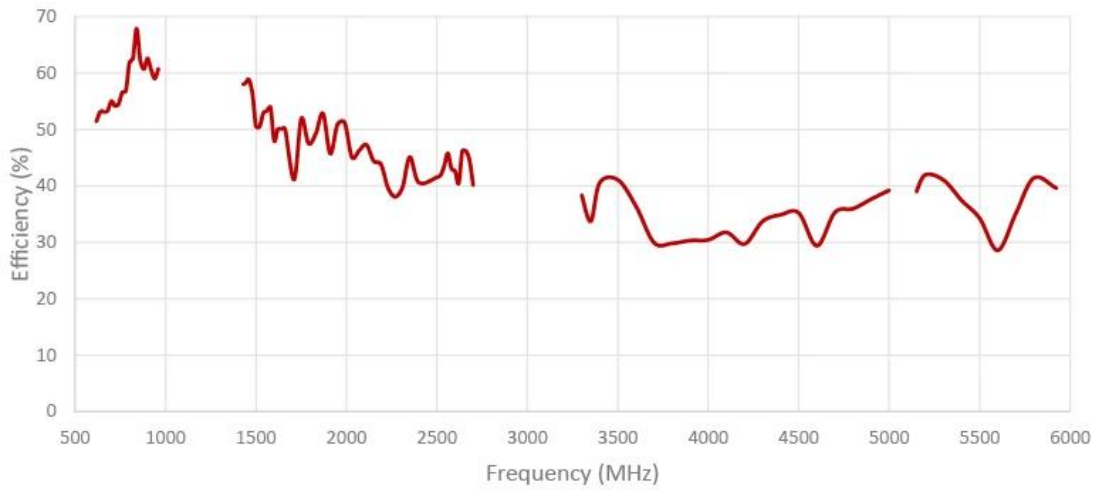






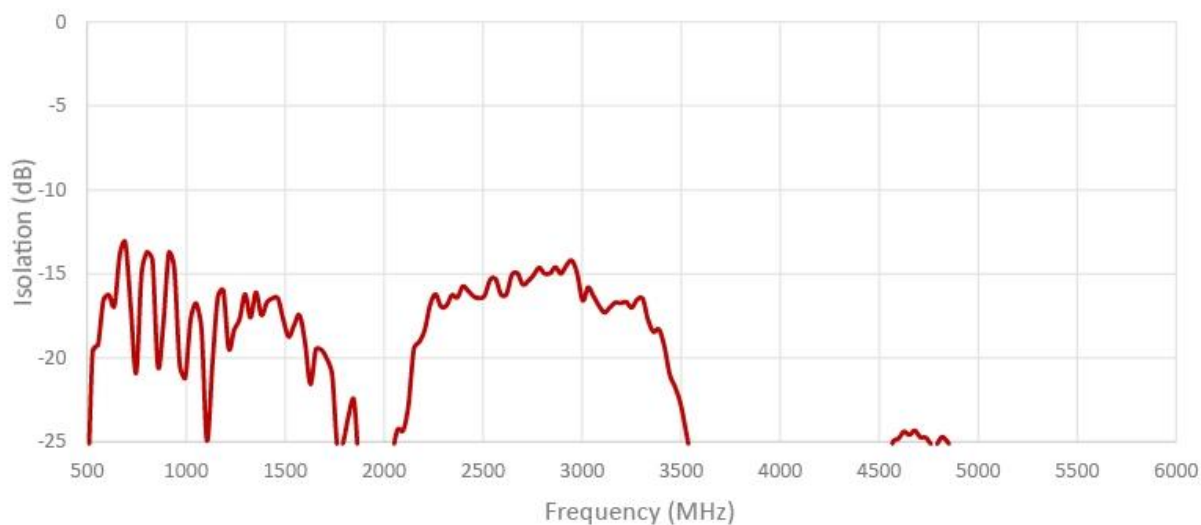
Cable 4: 5GNR



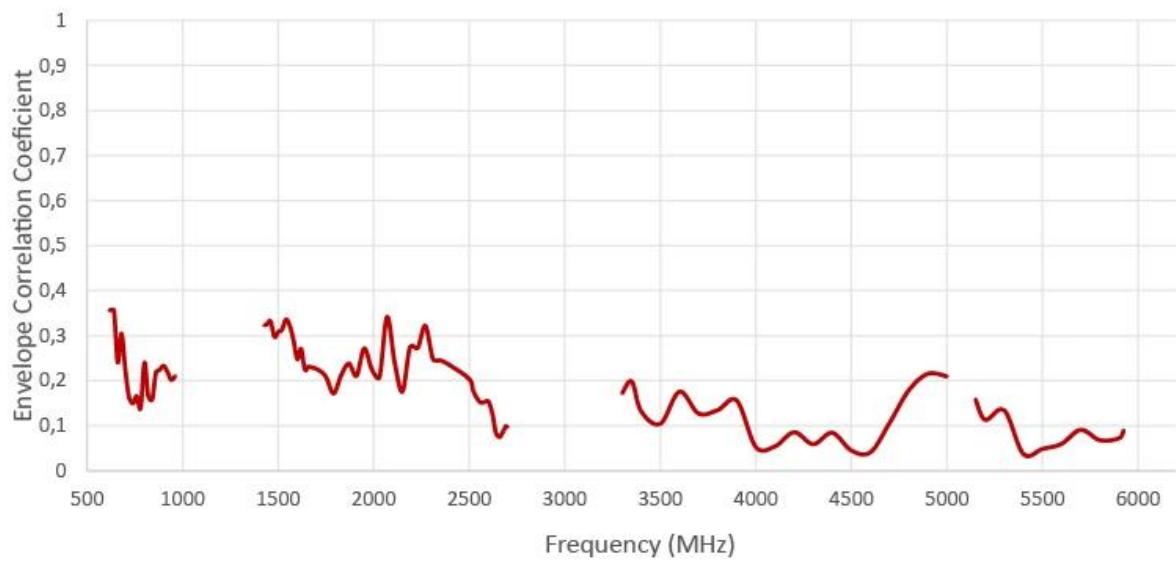




ISOLATION FOR CABLES 1 AND 2

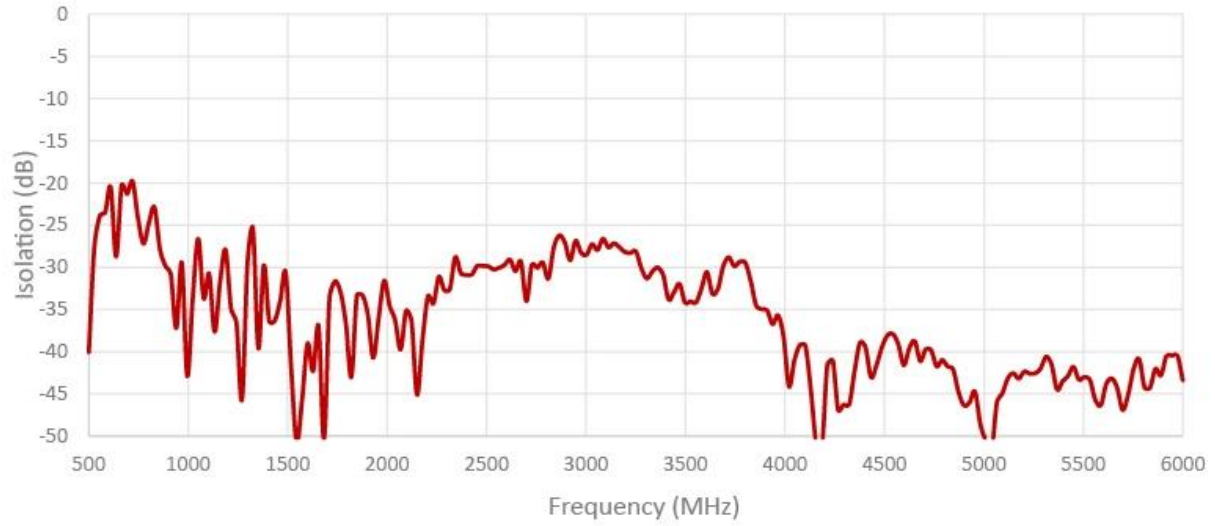


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

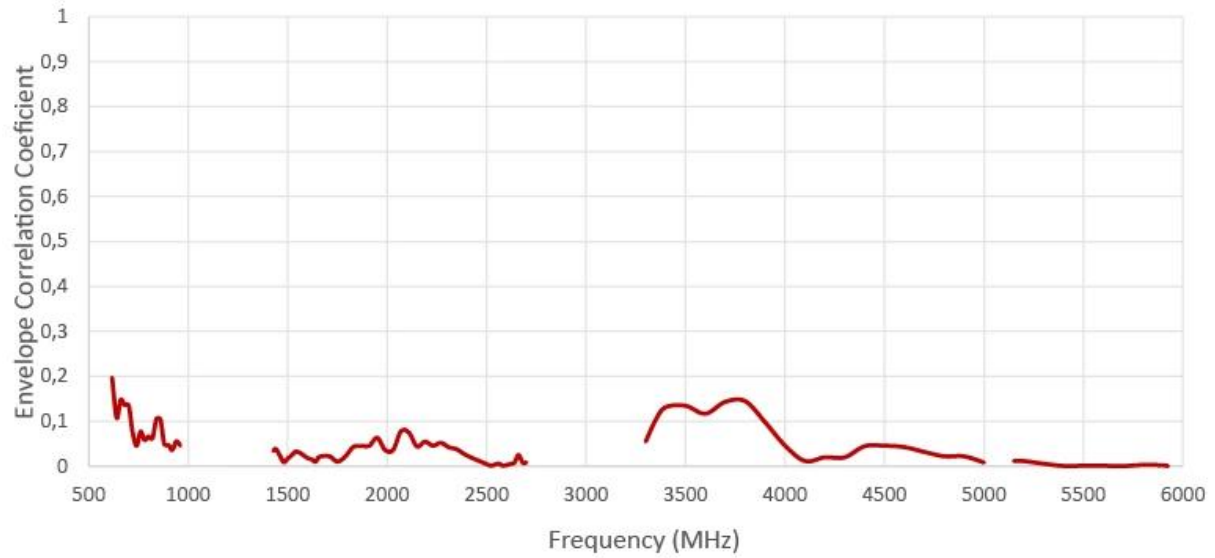




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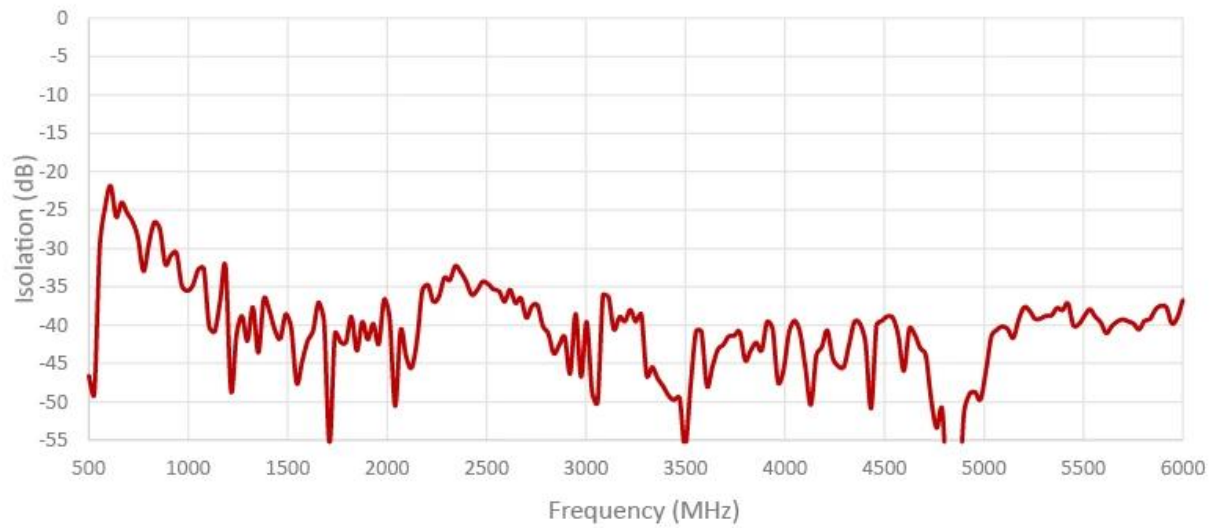


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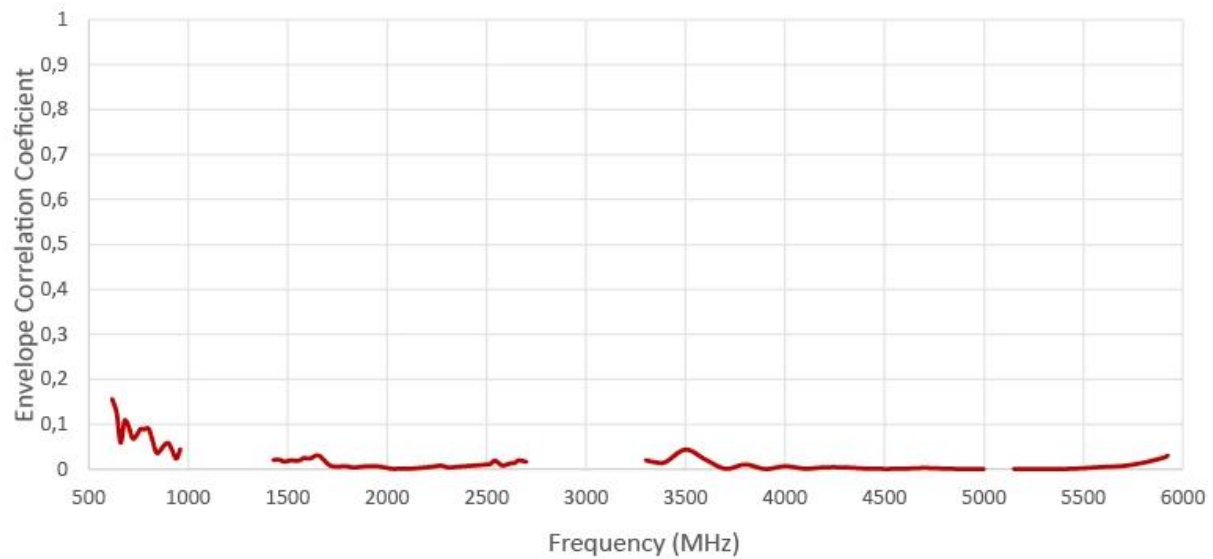




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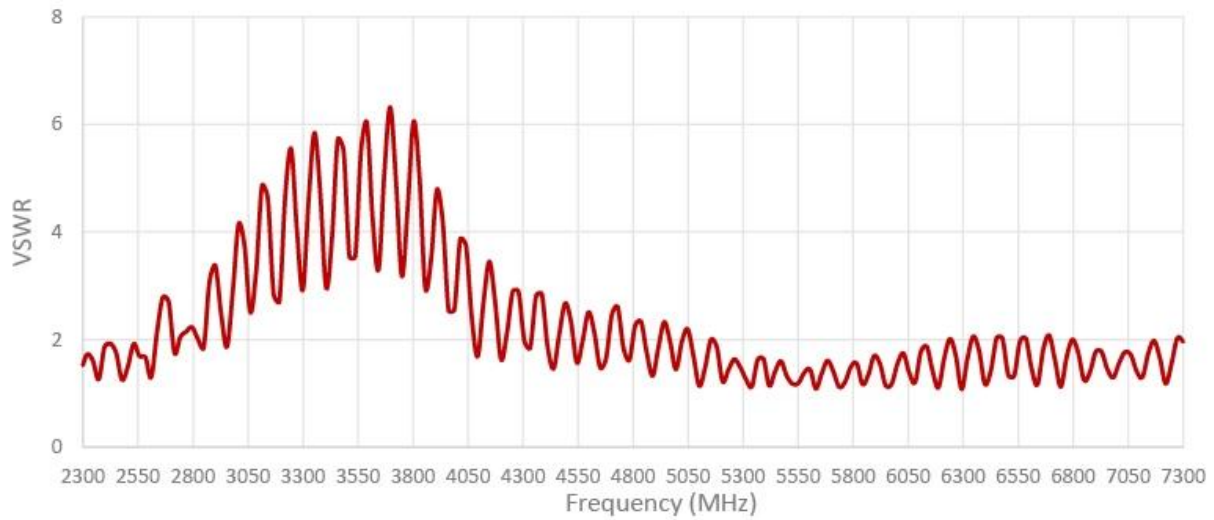
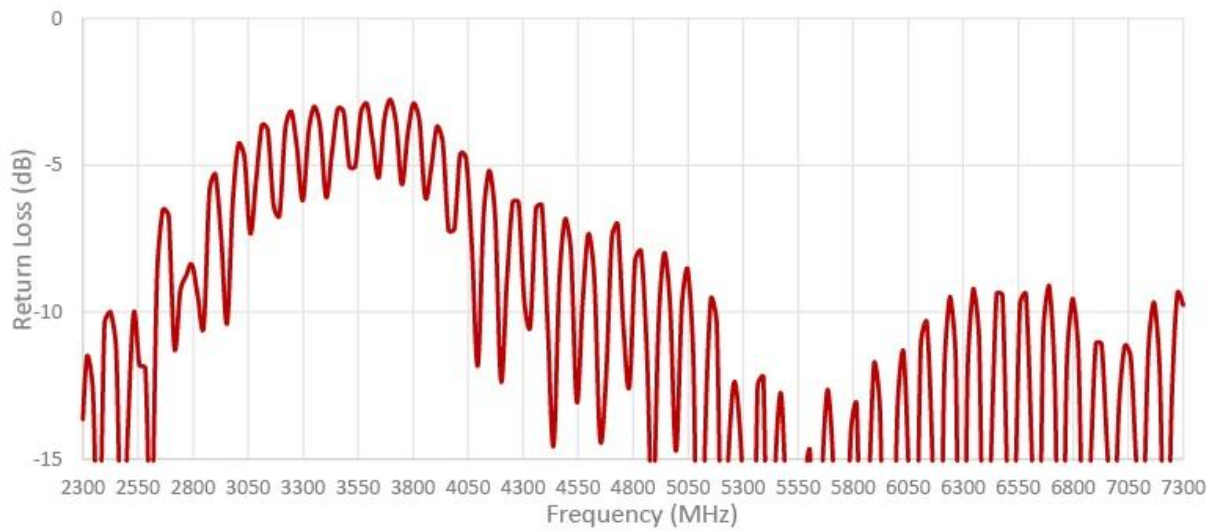


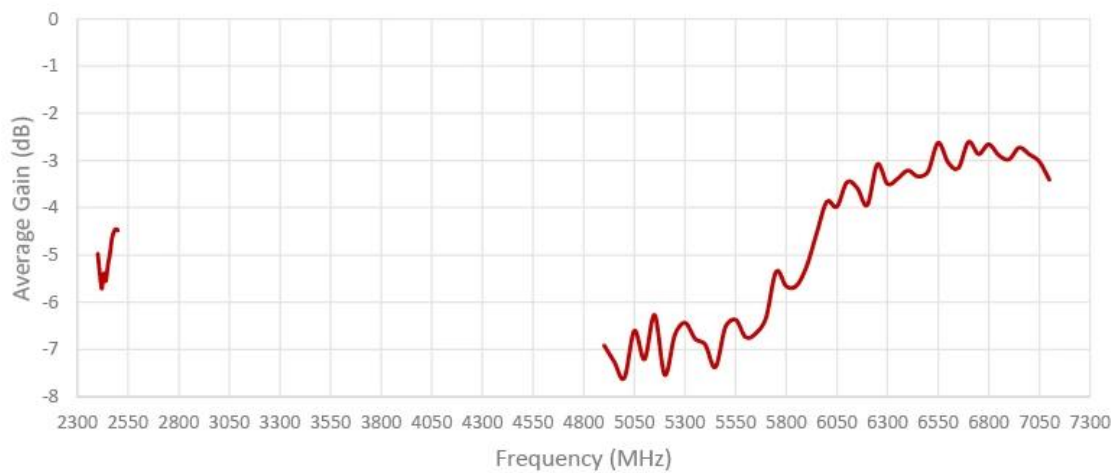
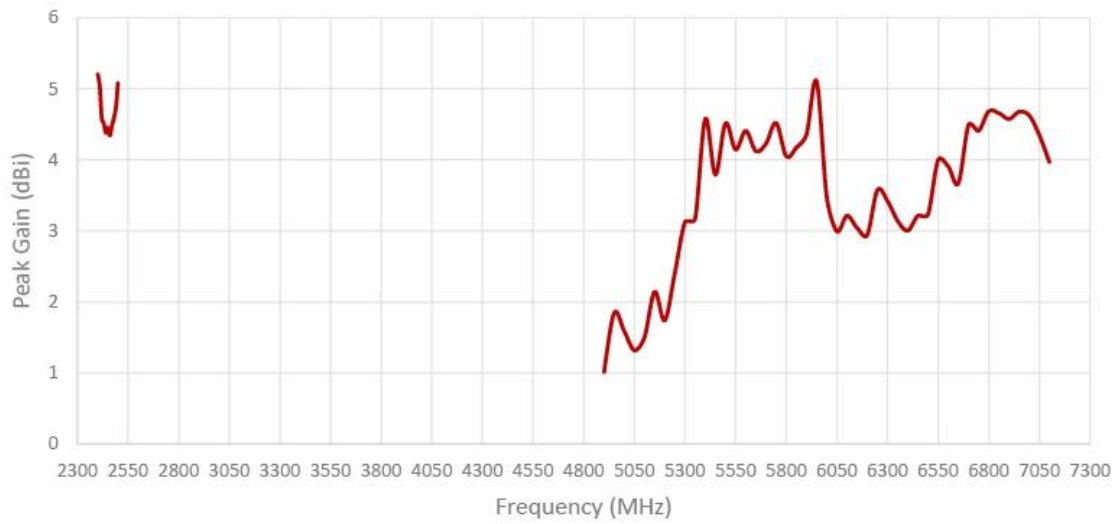
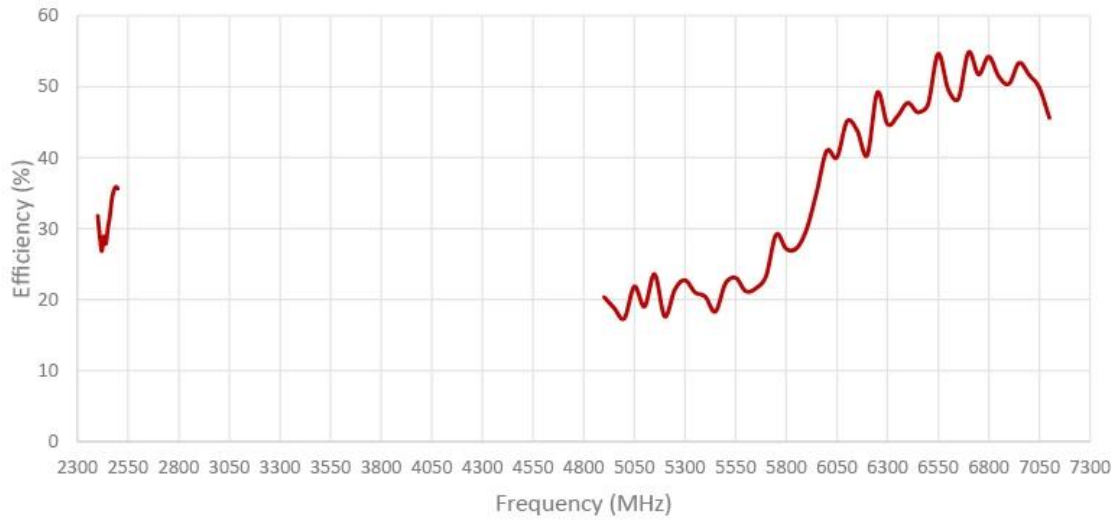
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 4





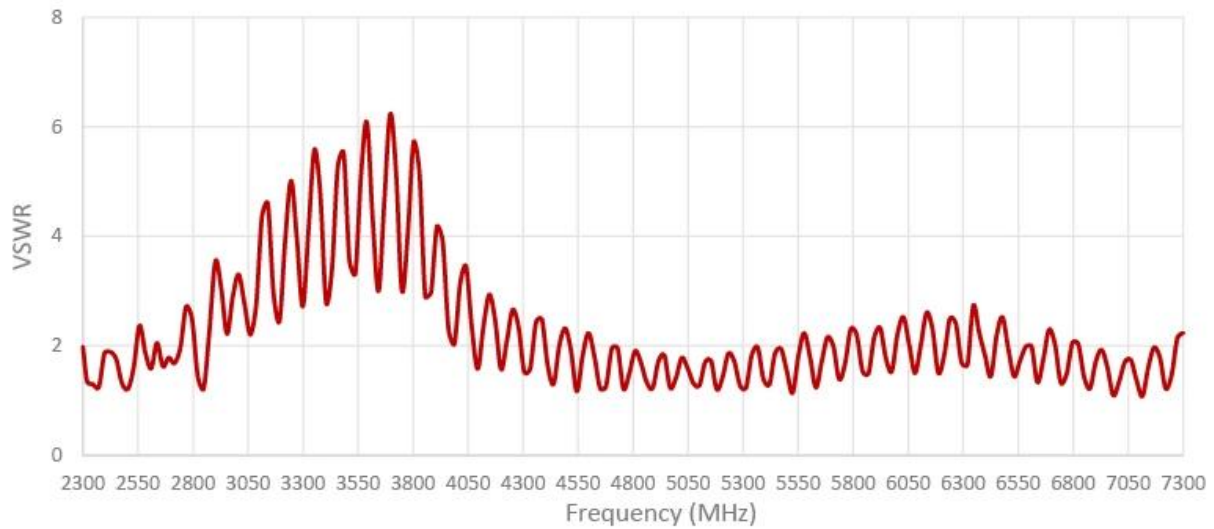
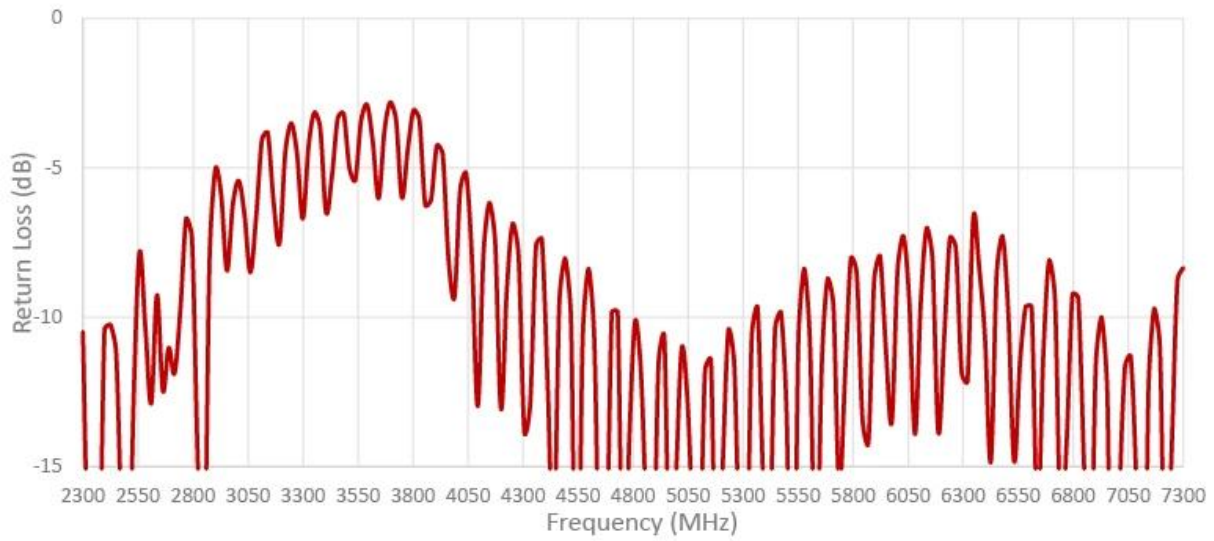
Cable 5: 2.4/5.0/6.0 GHz ISM

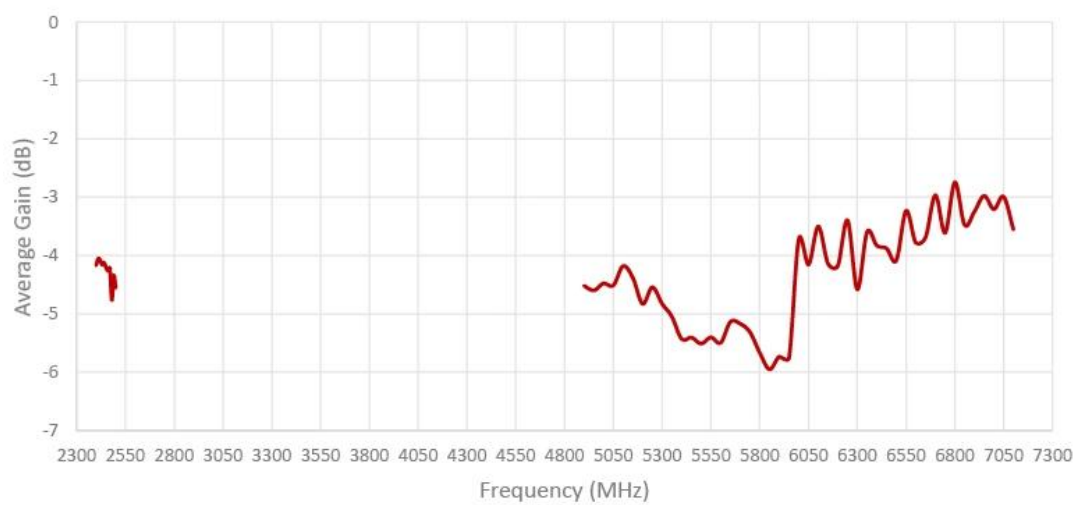
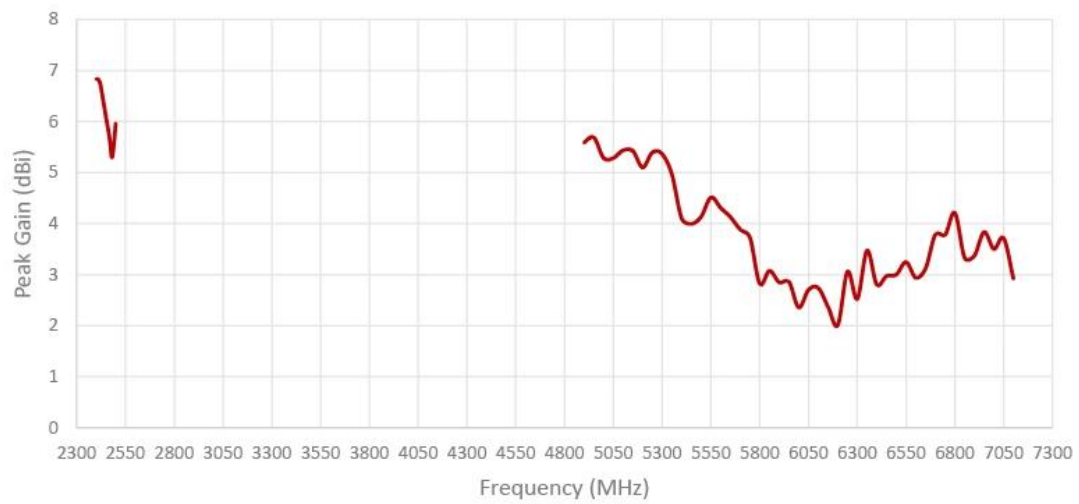
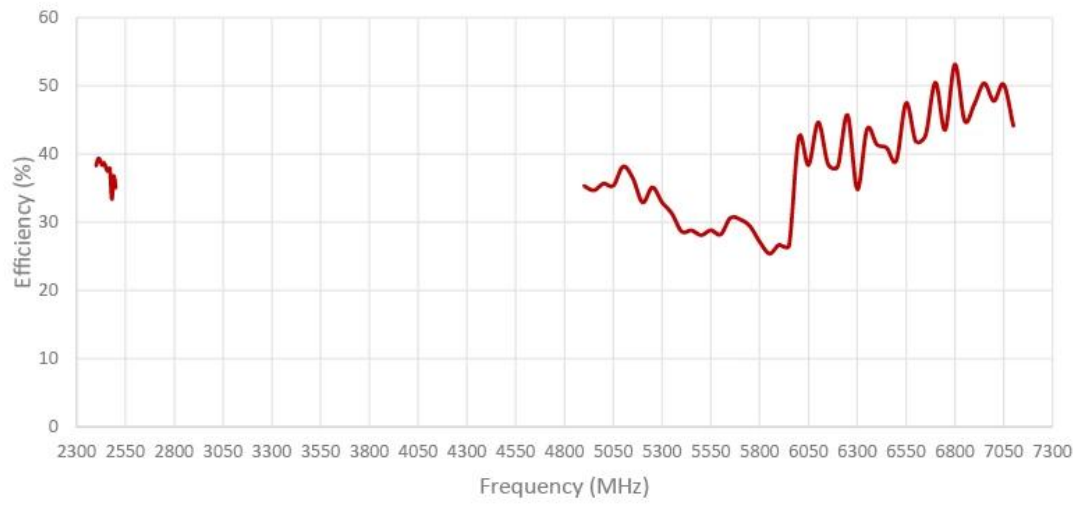






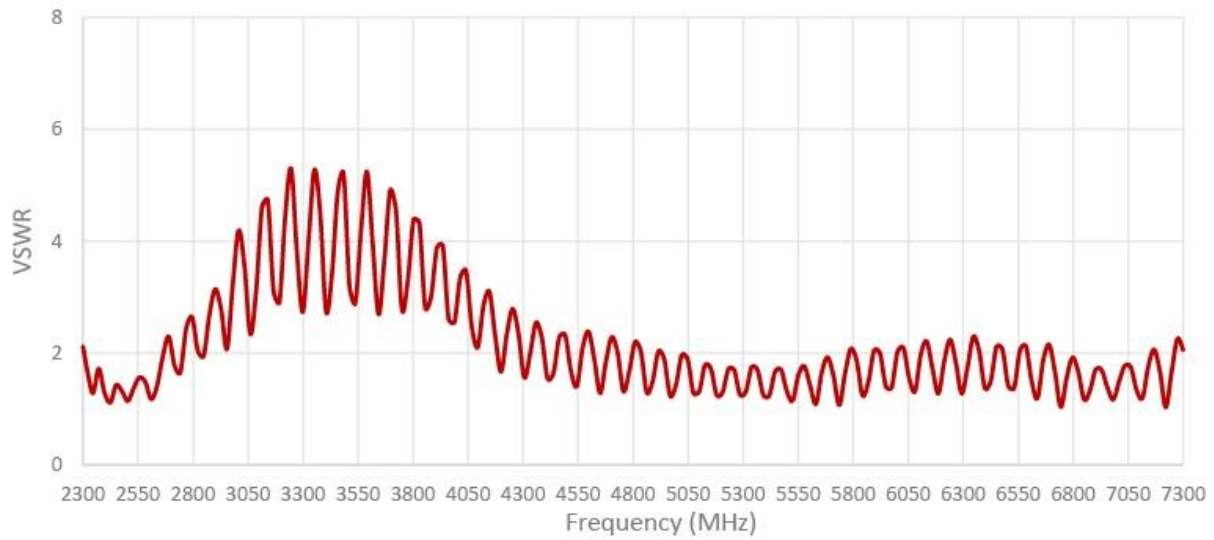
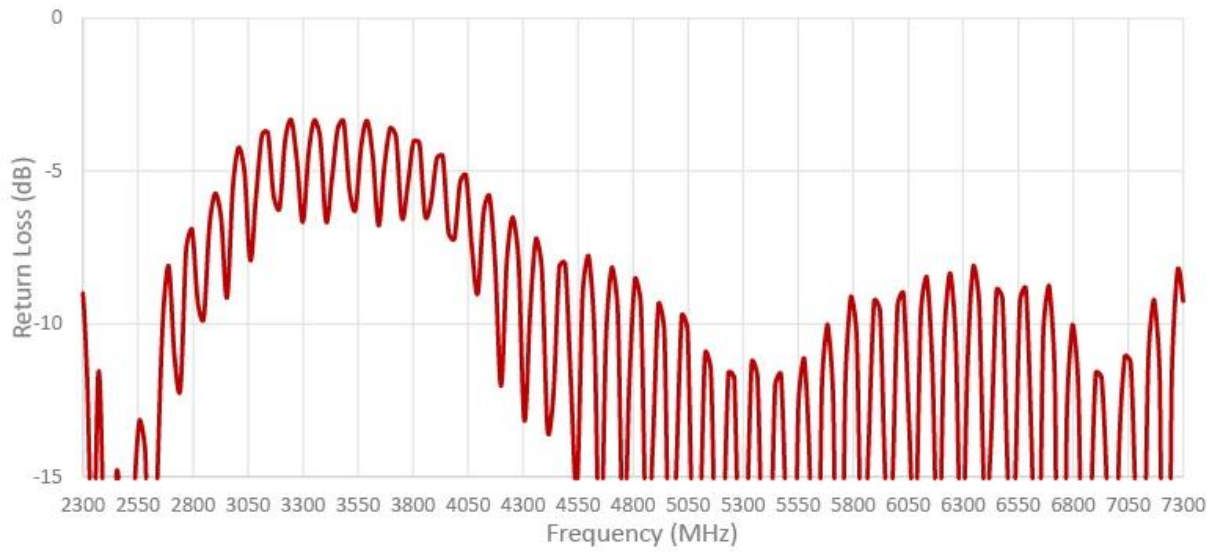
Cable 6: 2.4/5.0/6.0 GHz ISM

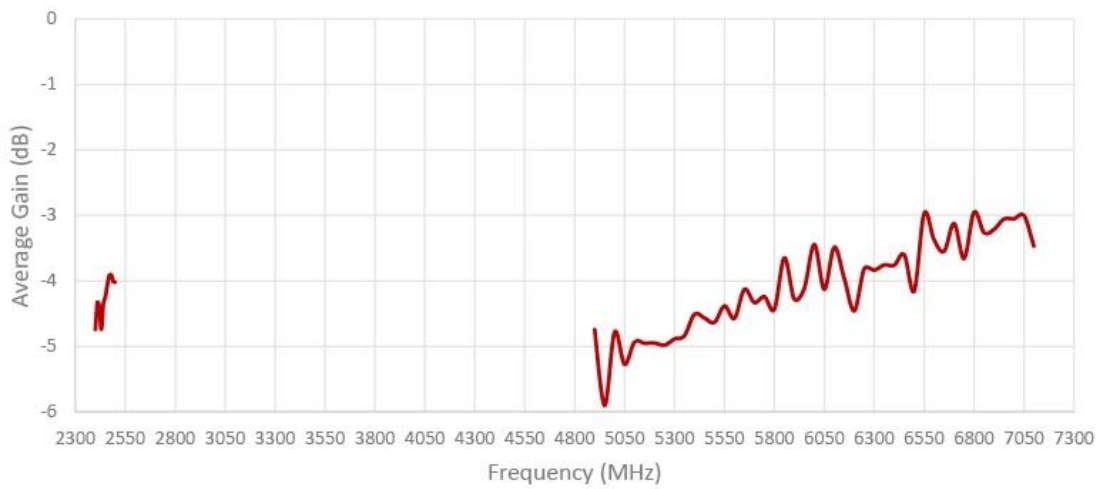
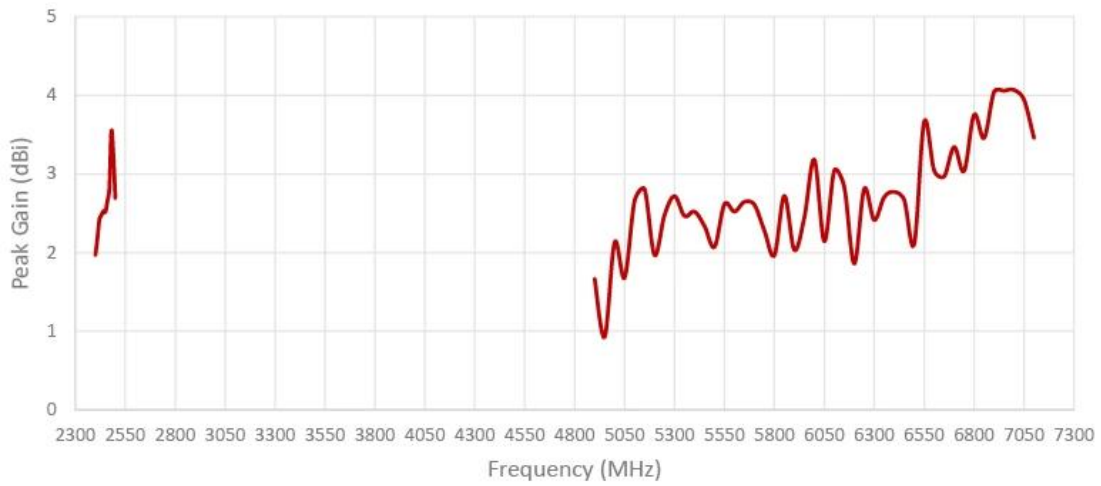
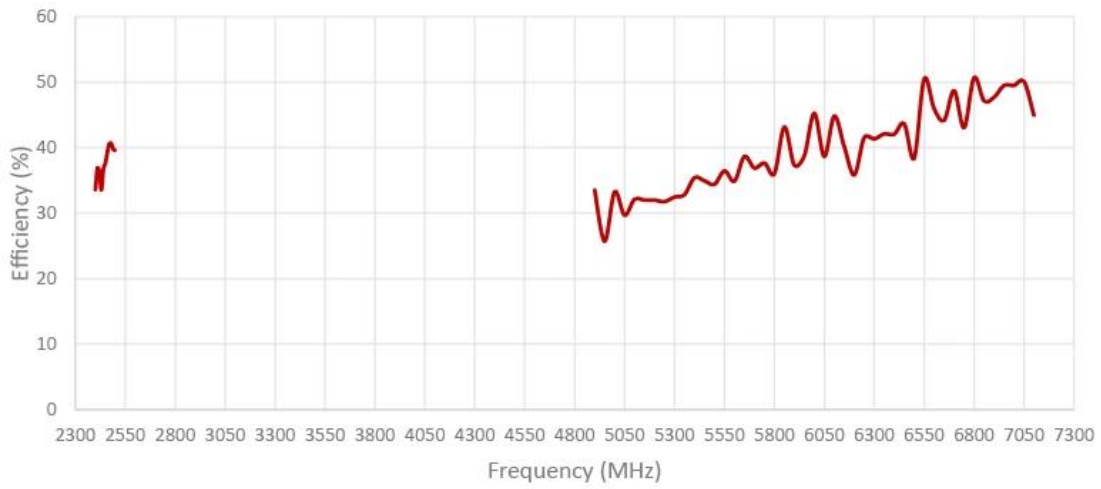






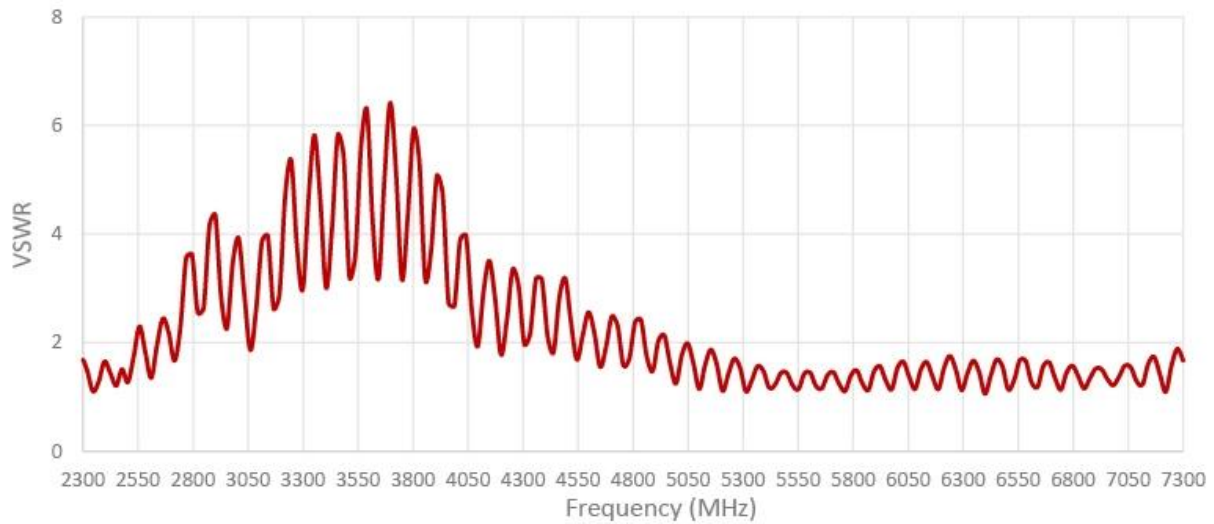
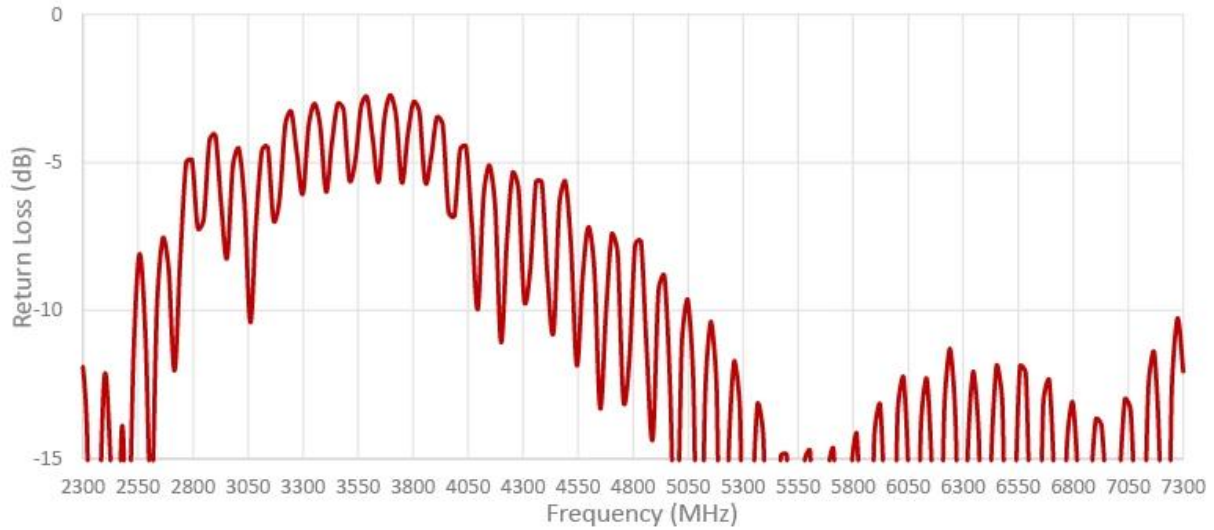
Cable 7: 2.4/5.0/6.0 GHz ISM

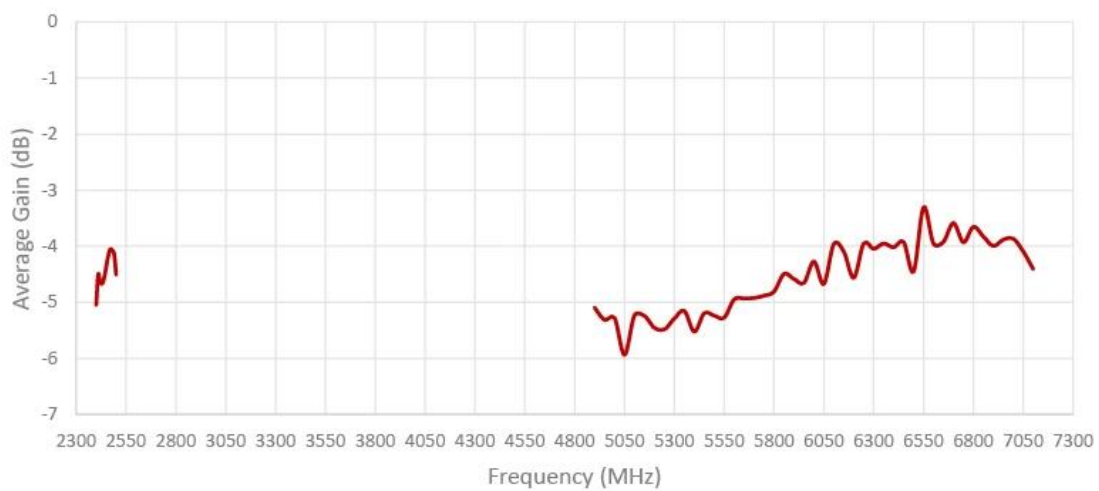
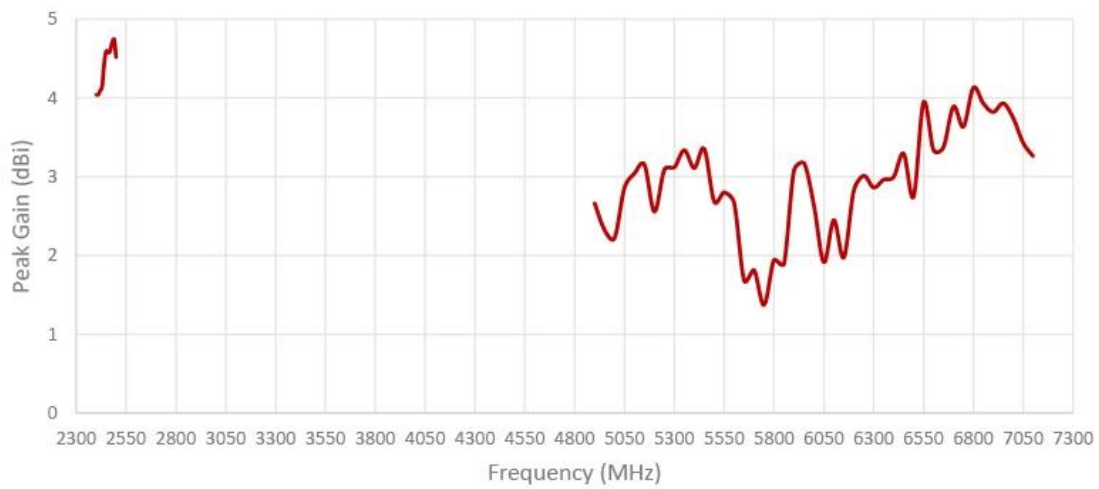
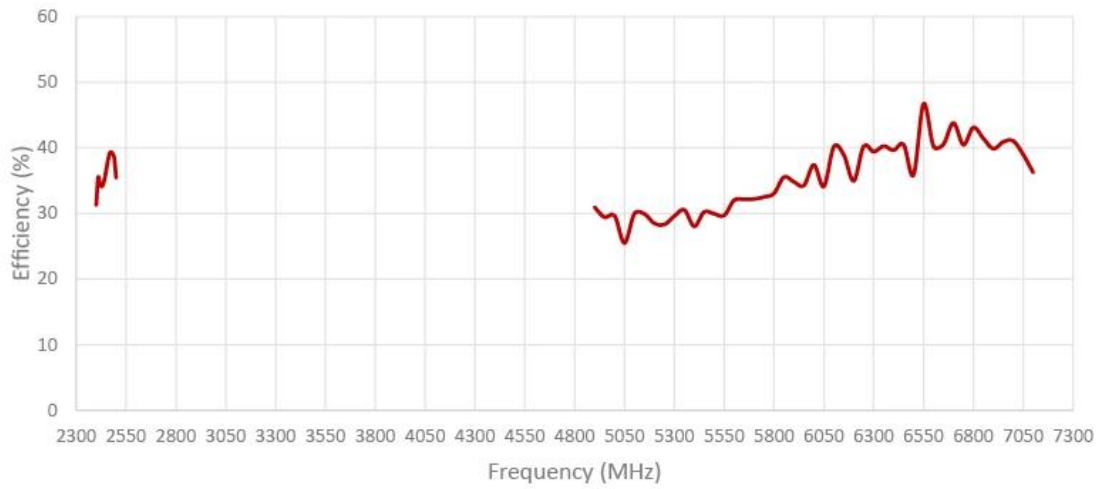






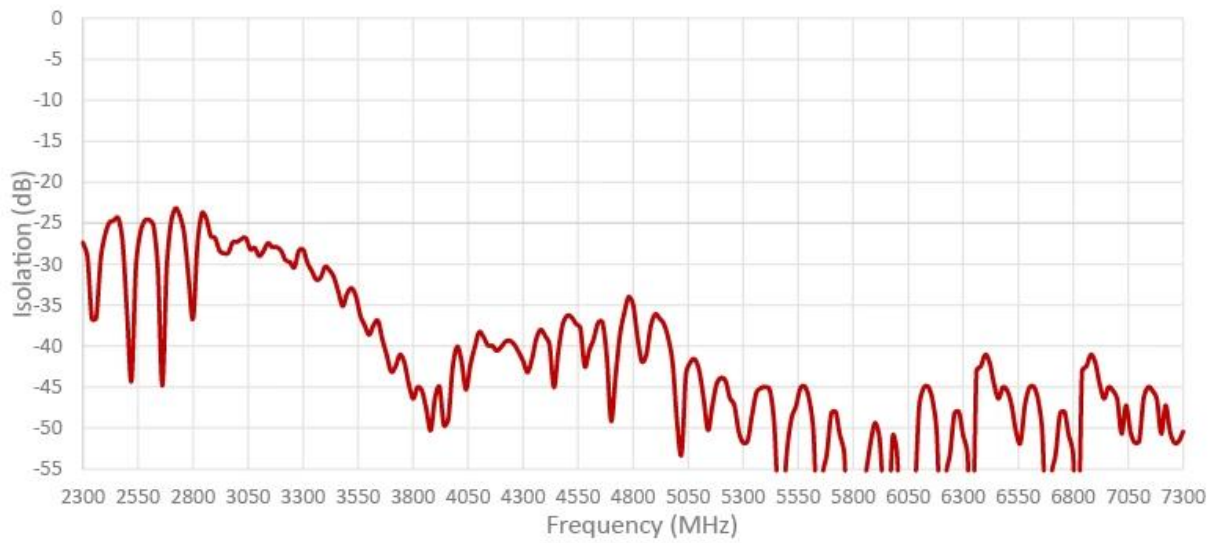
Cable 8: 2.4/5.0/6.0 GHz ISM



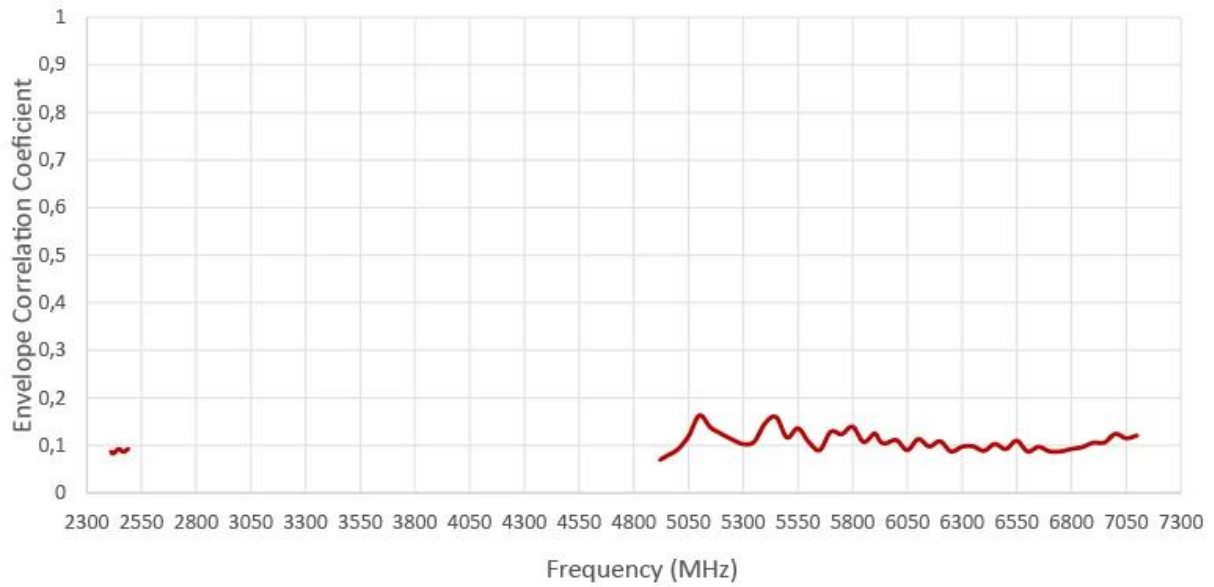




ISOLATION FOR CABLES 5 AND 6

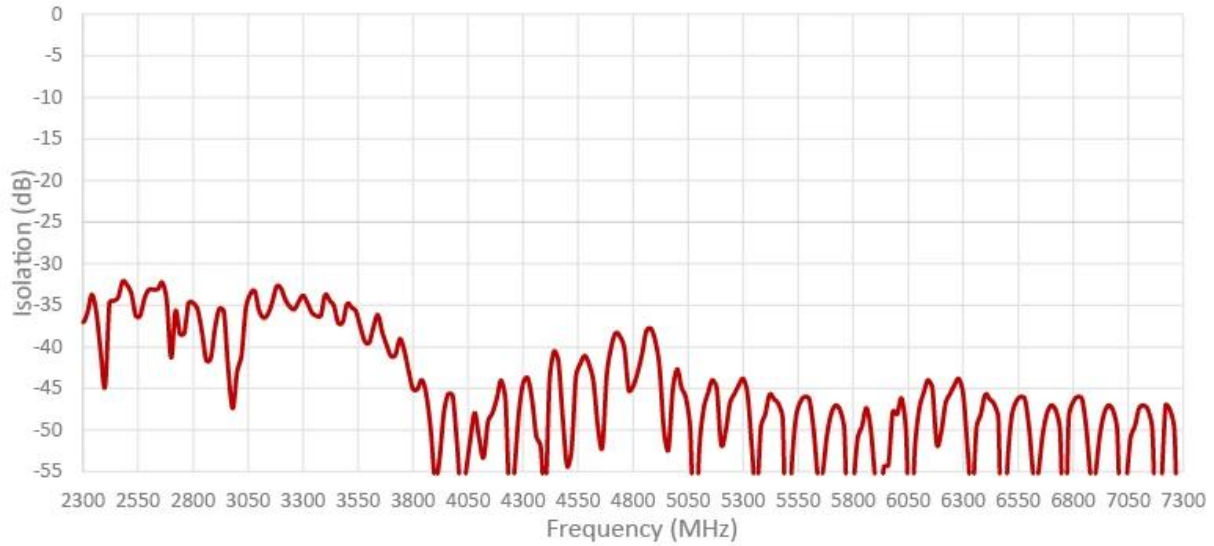


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 6

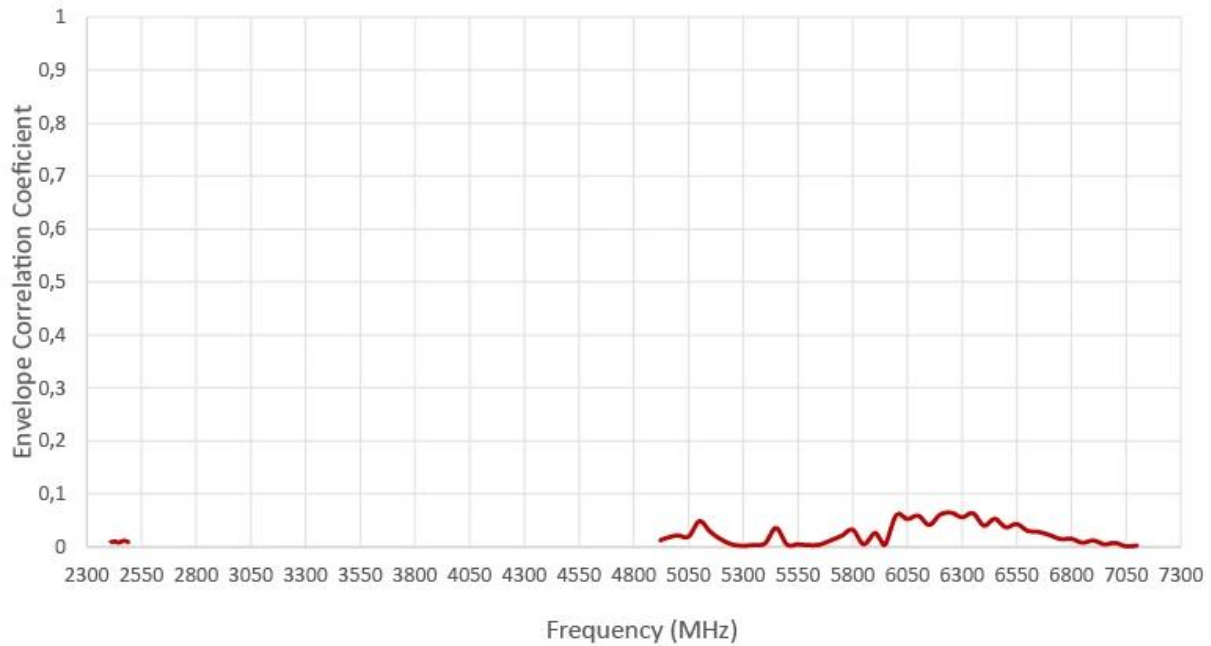




ISOLATION FOR CABLES 5 AND 7

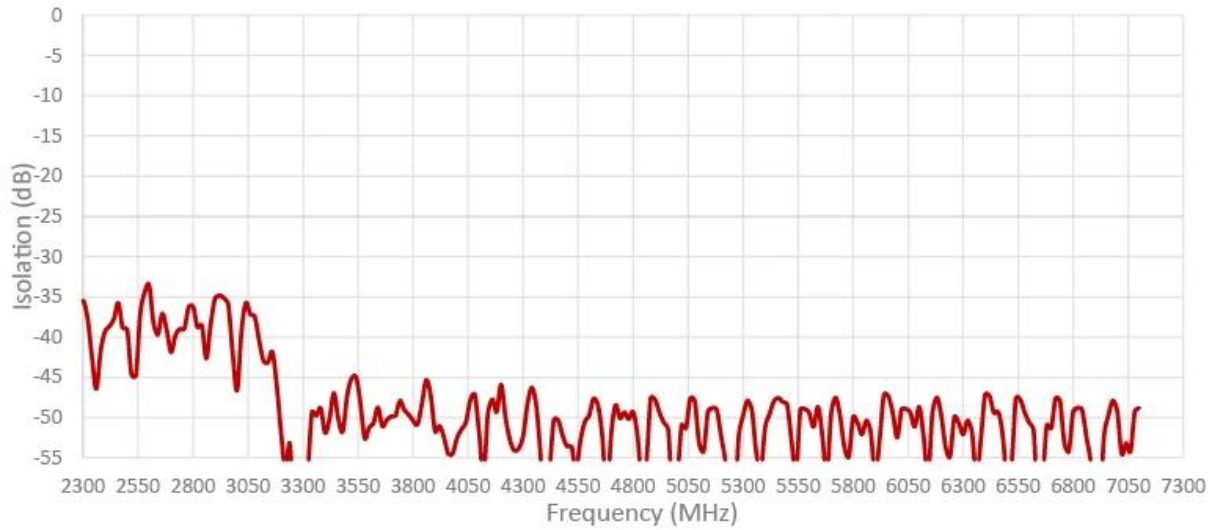


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 7

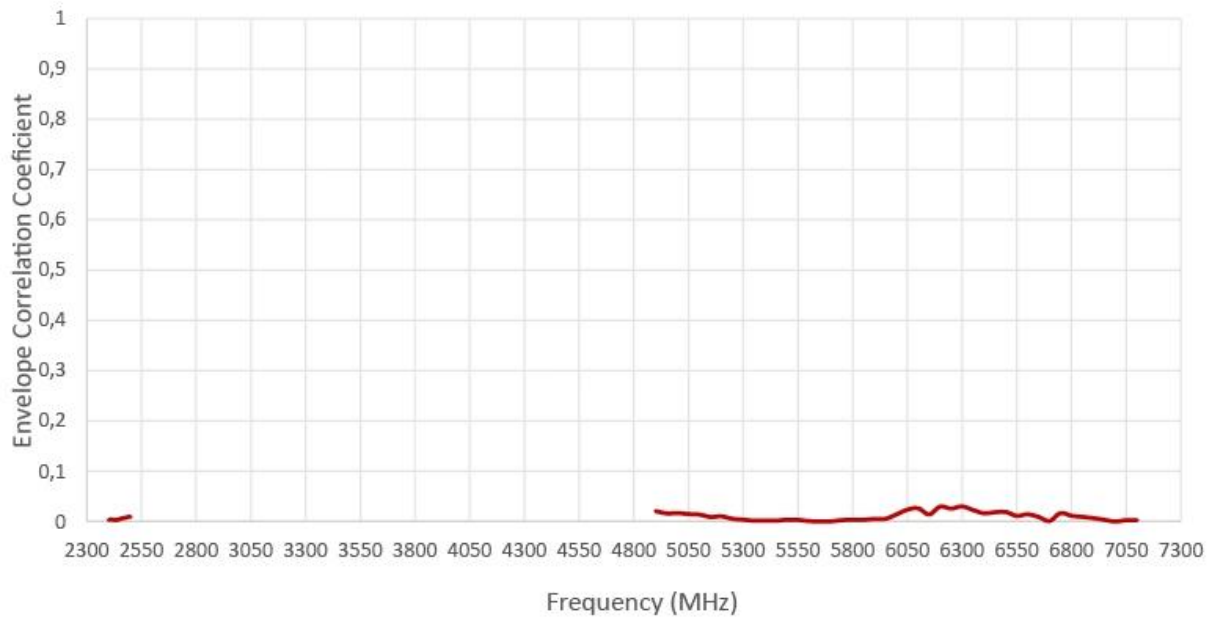




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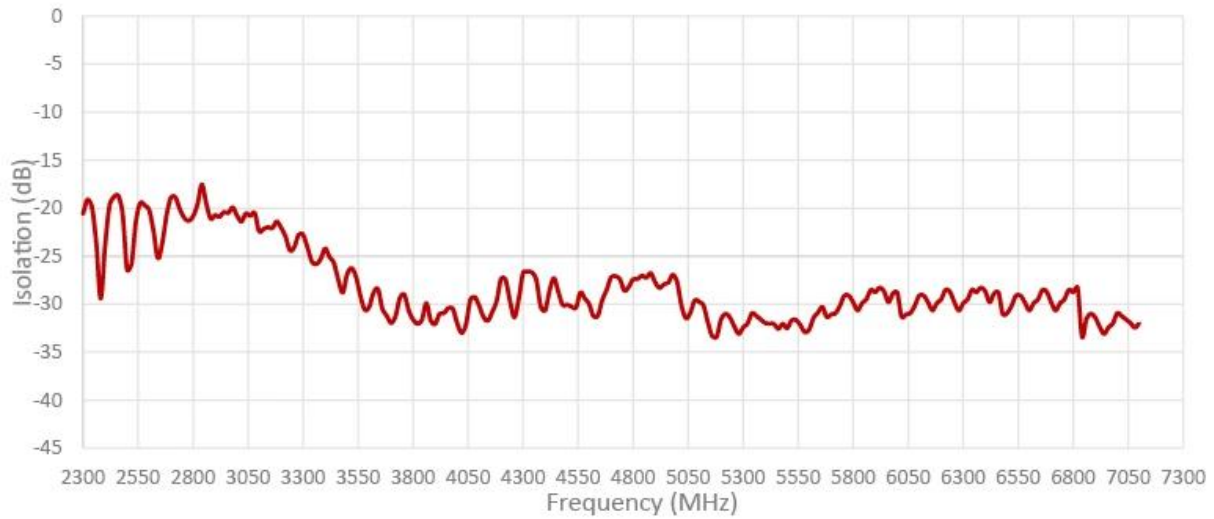


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 5 AND 8

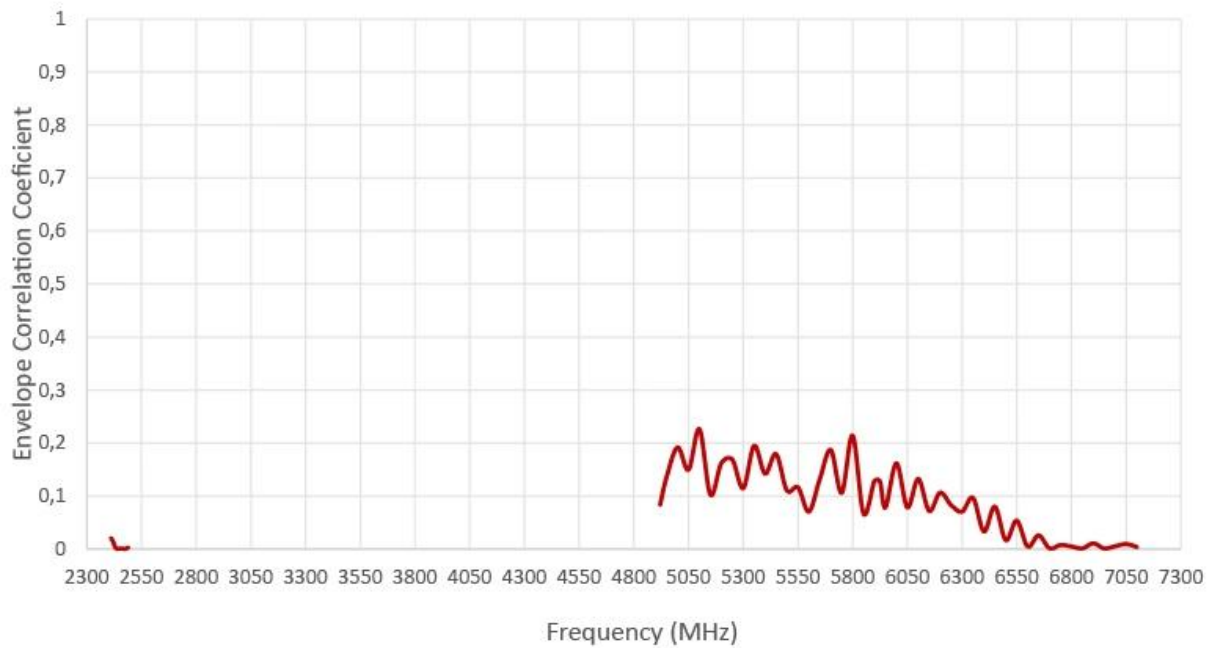


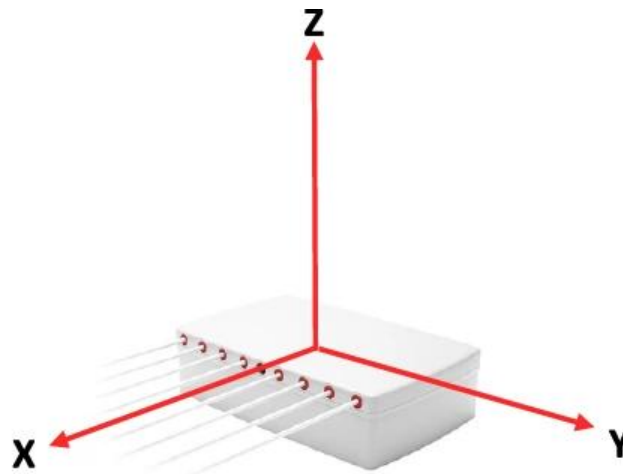


ISOLATION FOR CABLES 6 AND 7



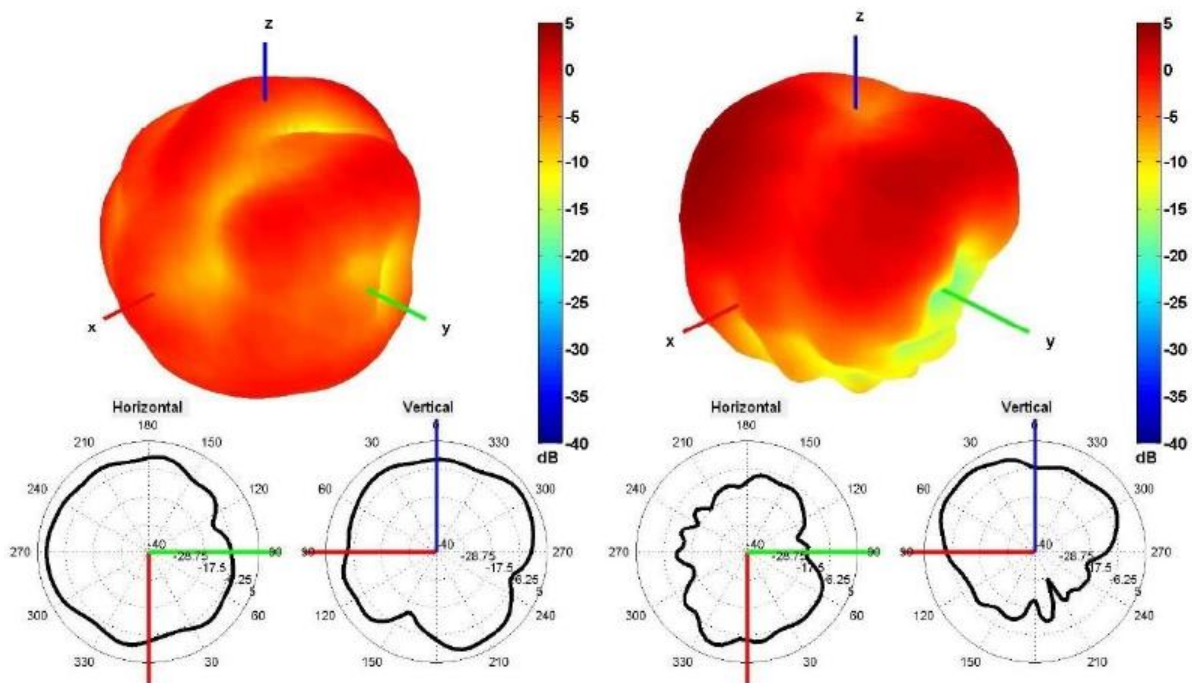
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 6 AND 7



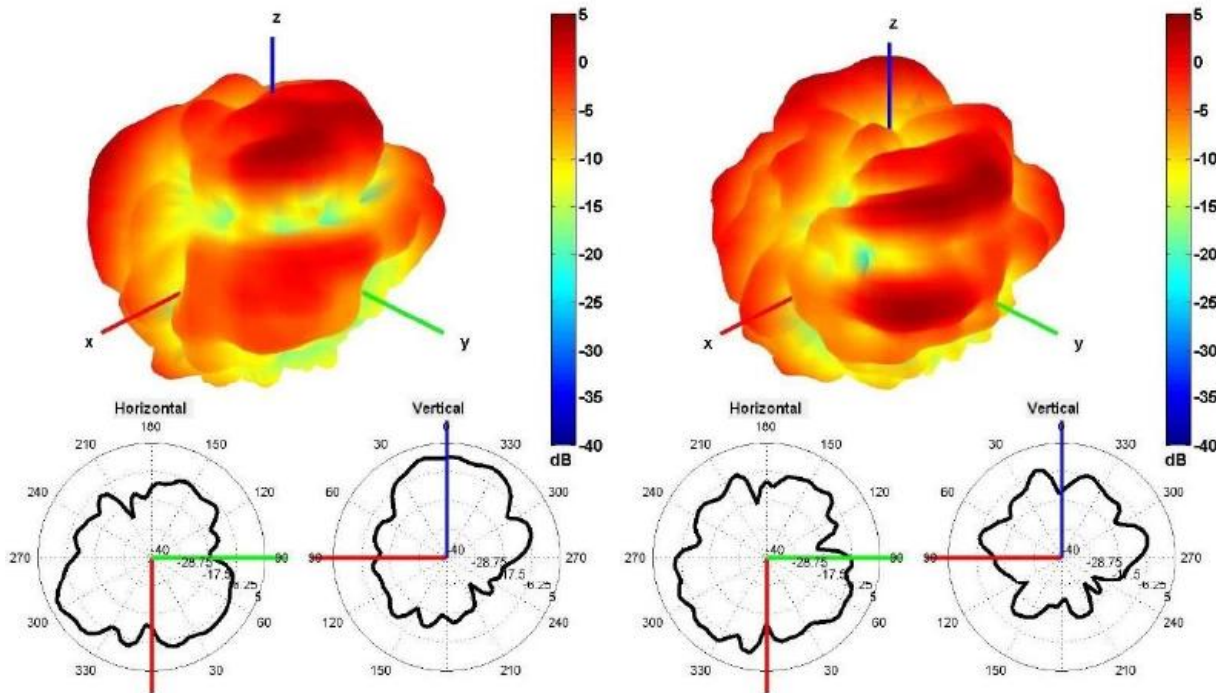


Radiation pattern reference

Cable 1: 5GNR

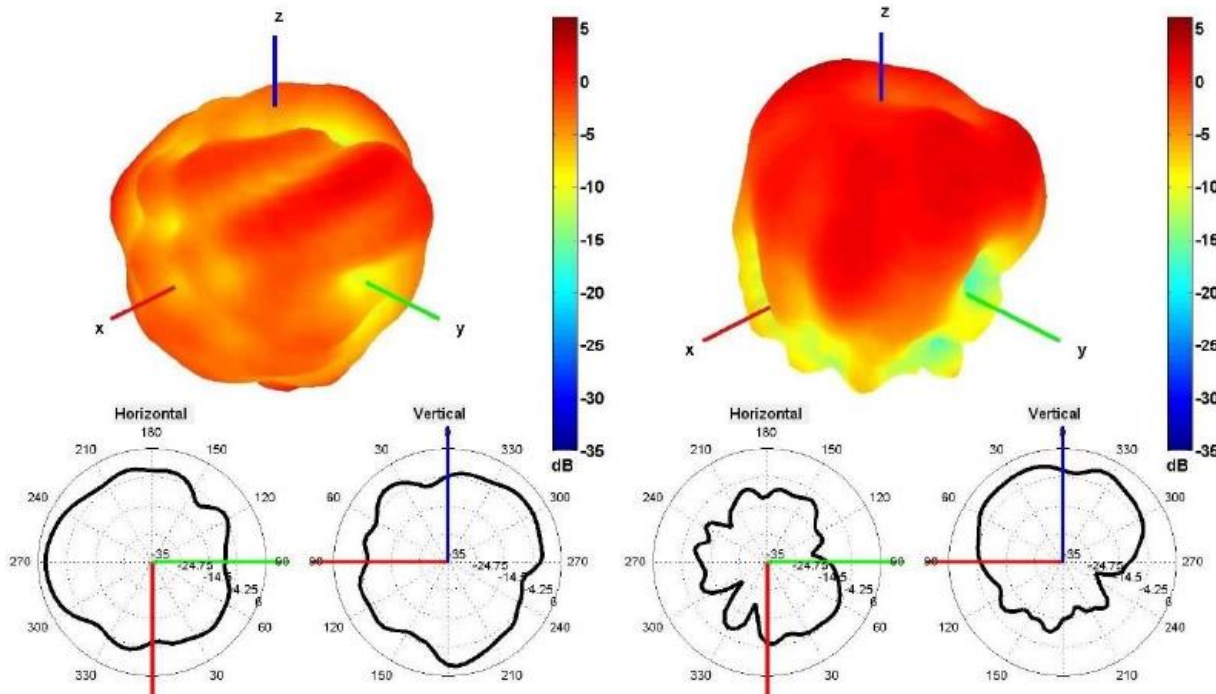


750 and 2500 MHz Radiation pattern

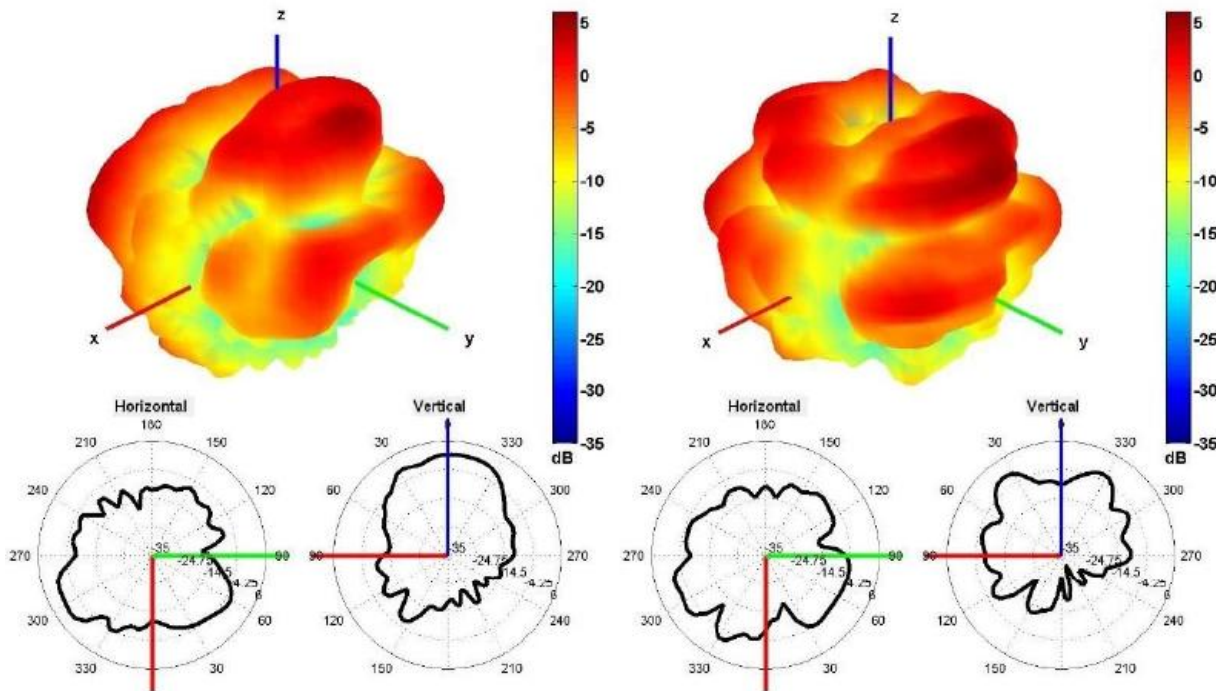


4500 and 5500 MHz Radiation pattern

Cable 2: 5GNR

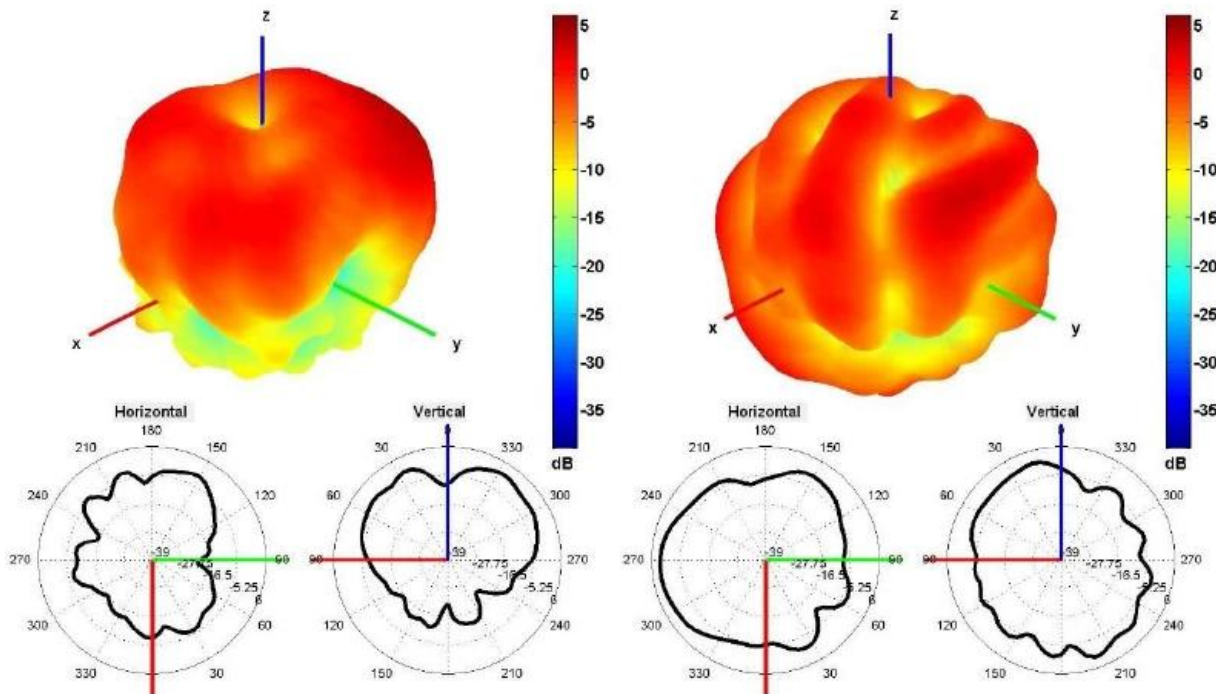


750 and 2500 MHz Radiation pattern

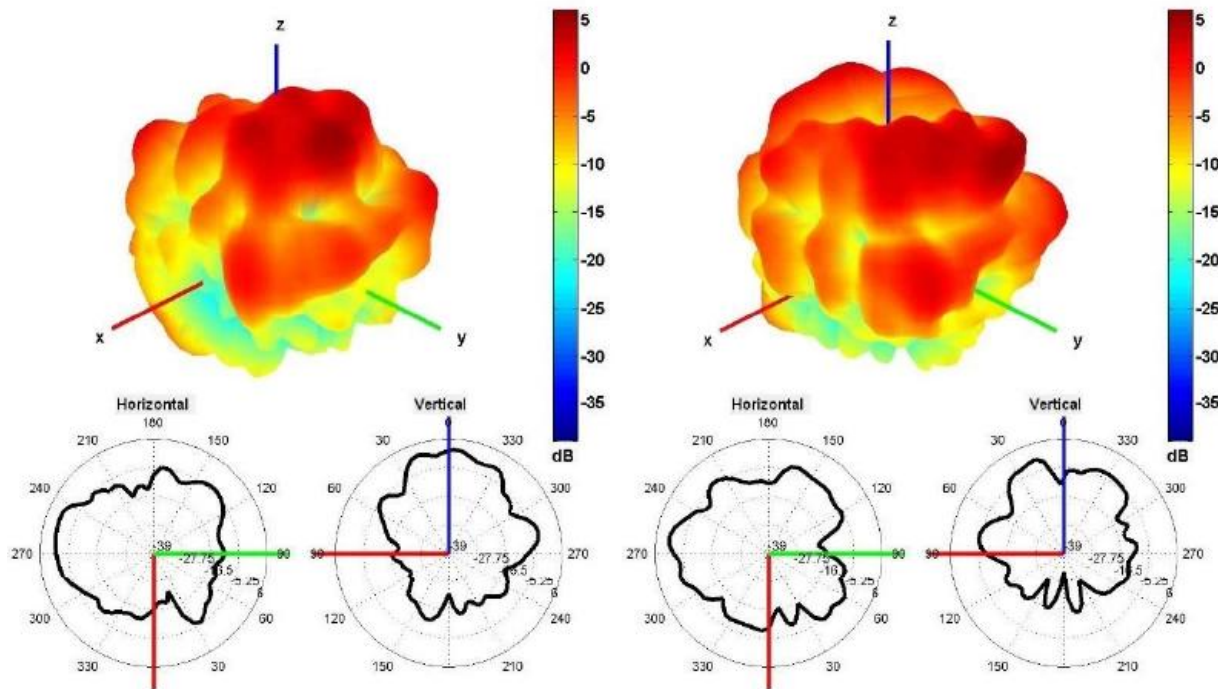


4500 and 5500 MHz Radiation pattern

Cable 3: 5GNR

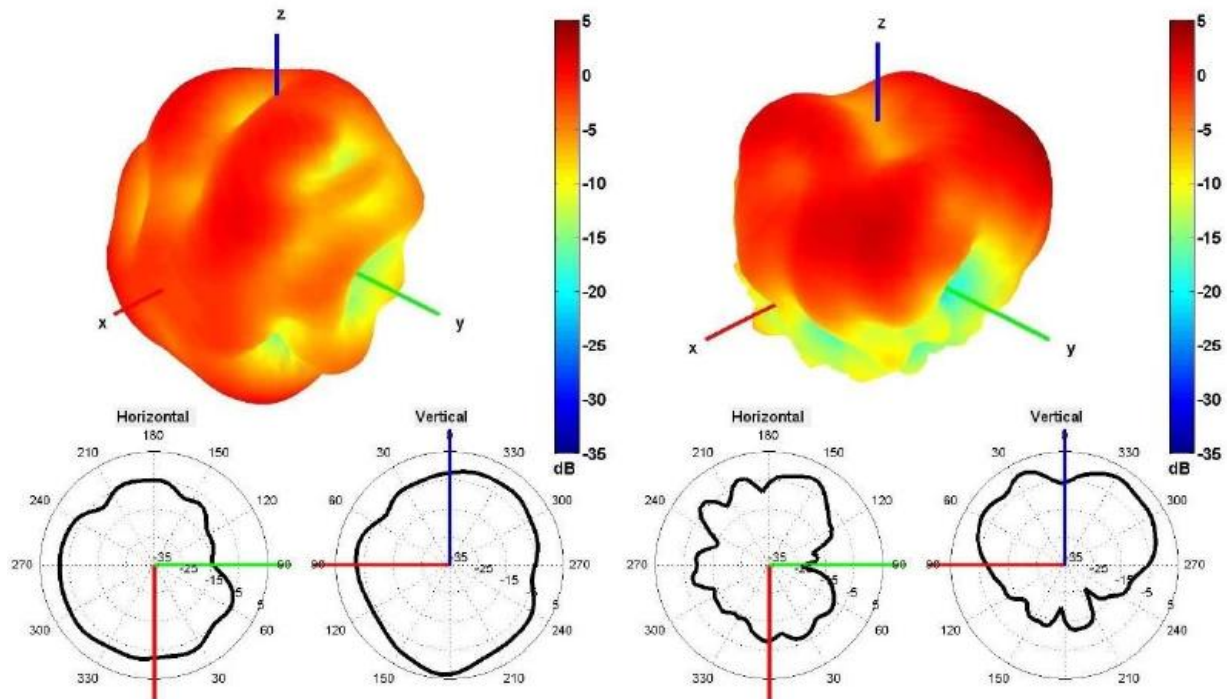


750 and 2500 MHz Radiation pattern

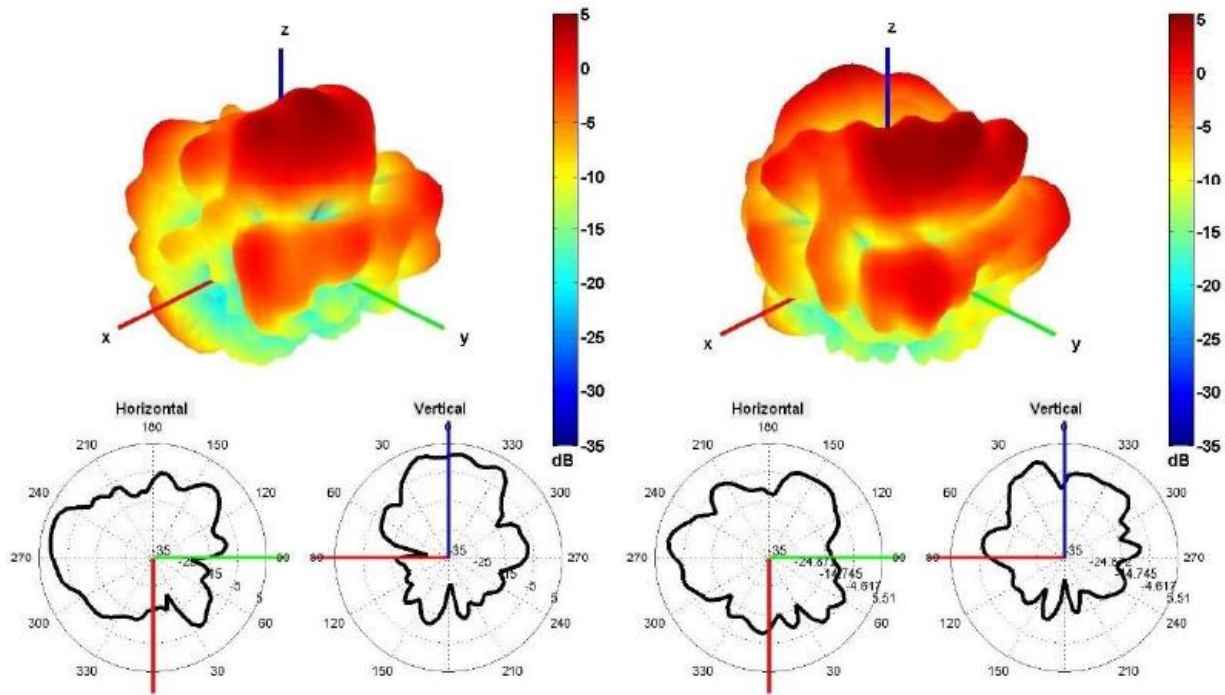


4500 and 5500 MHz Radiation pattern

Cable 4: 5GNR

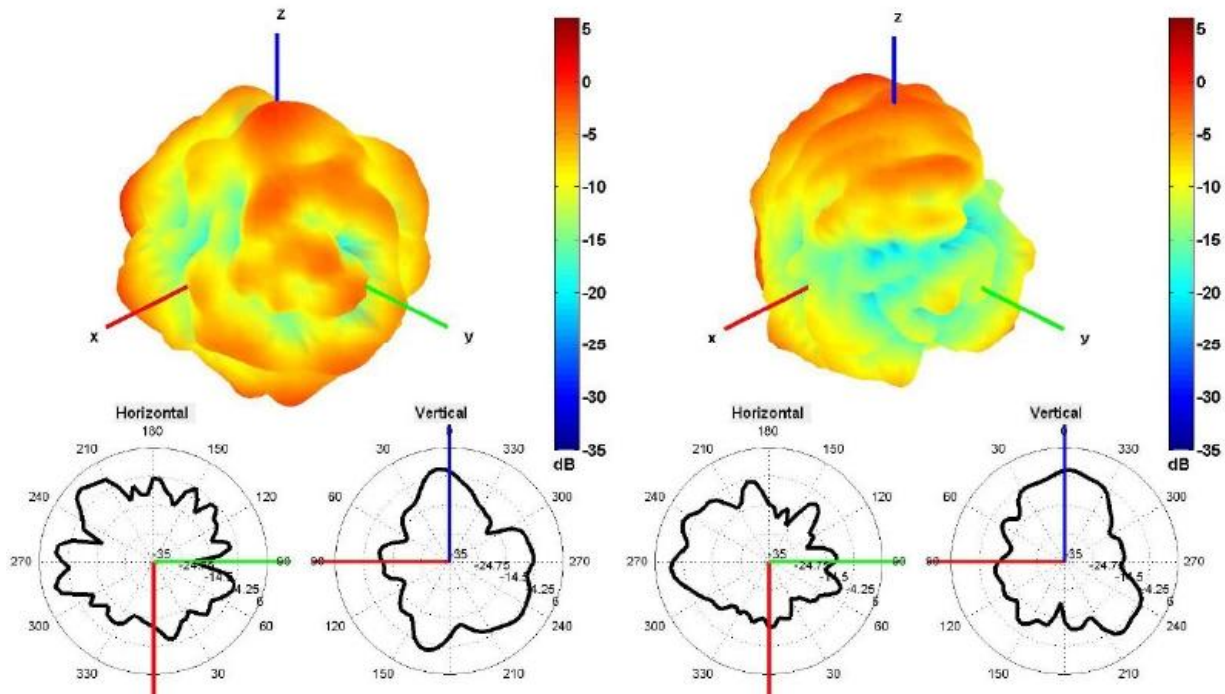


750 and 2500 MHz Radiation pattern

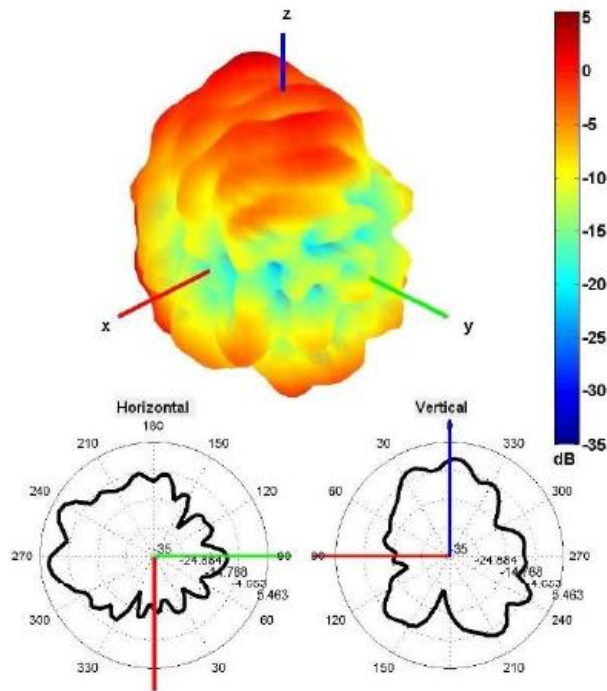


4500 and 5500 MHz Radiation pattern

Cable 5: 2.4/5.0/6.0 GHz ISM

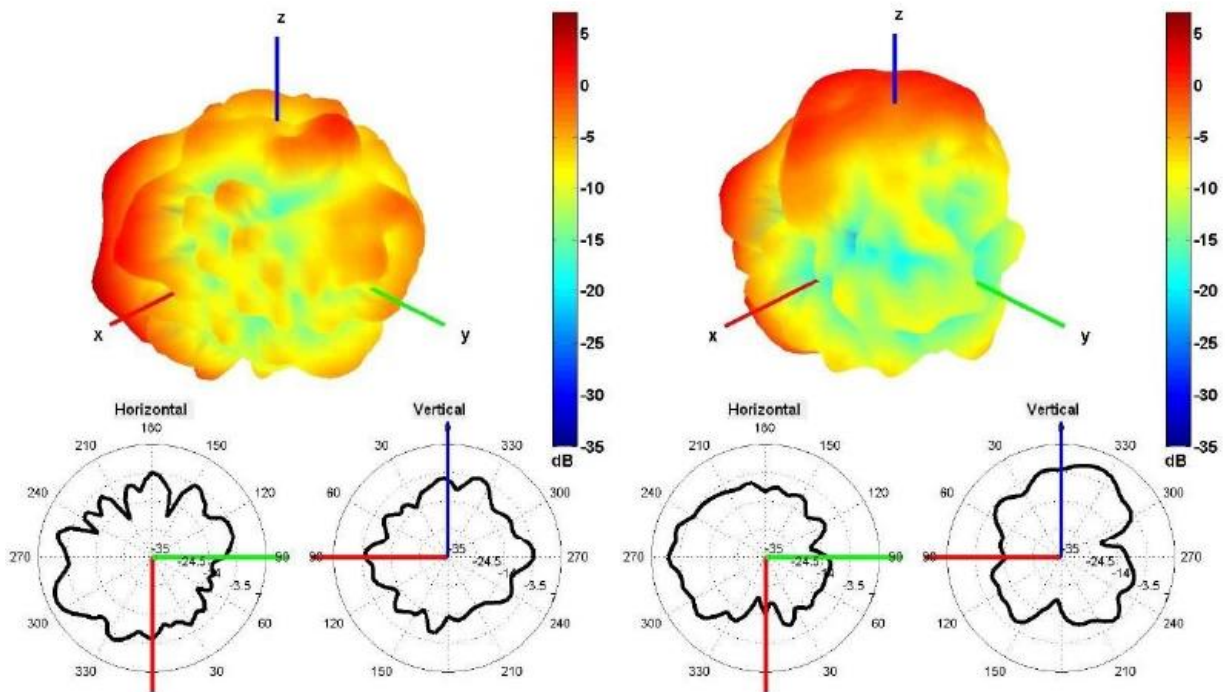


2450 and 5500 MHz Radiation pattern

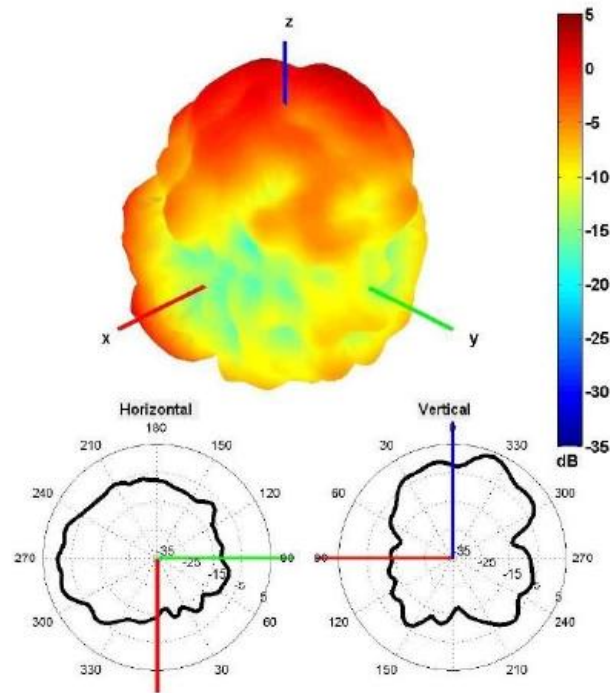


6500 MHz Radiation pattern

Cable 6: 2.4/5.0/6.0 GHz ISM

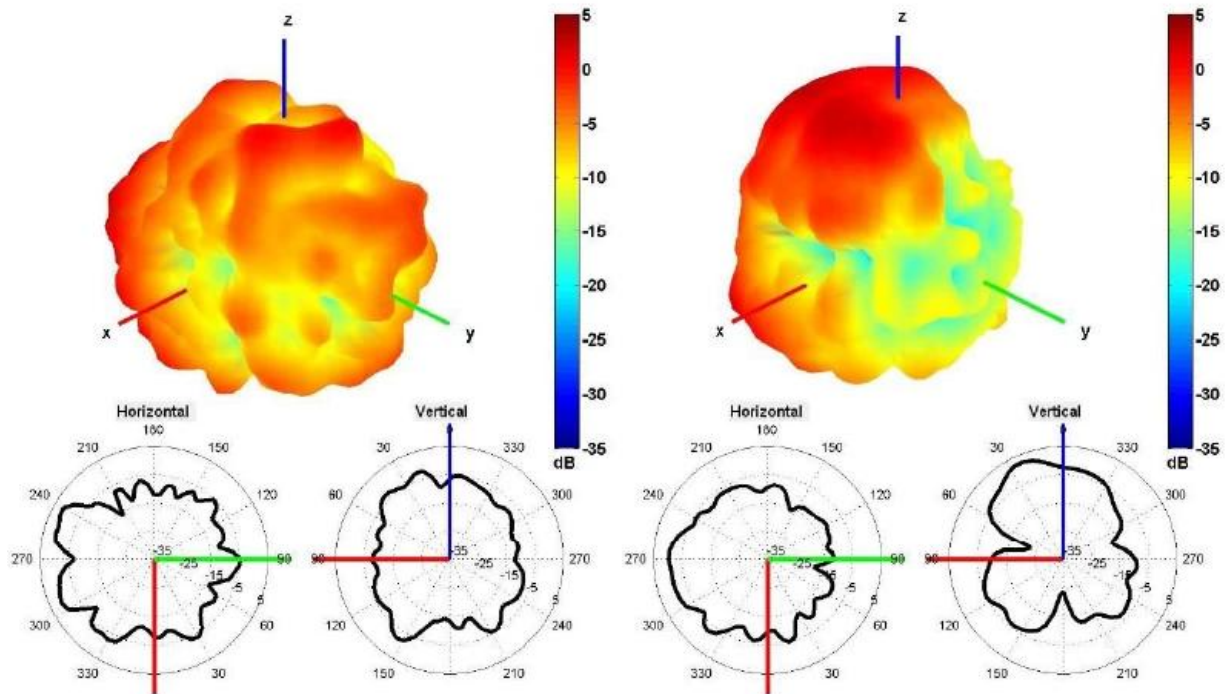


2450 and 5500 MHz Radiation pattern

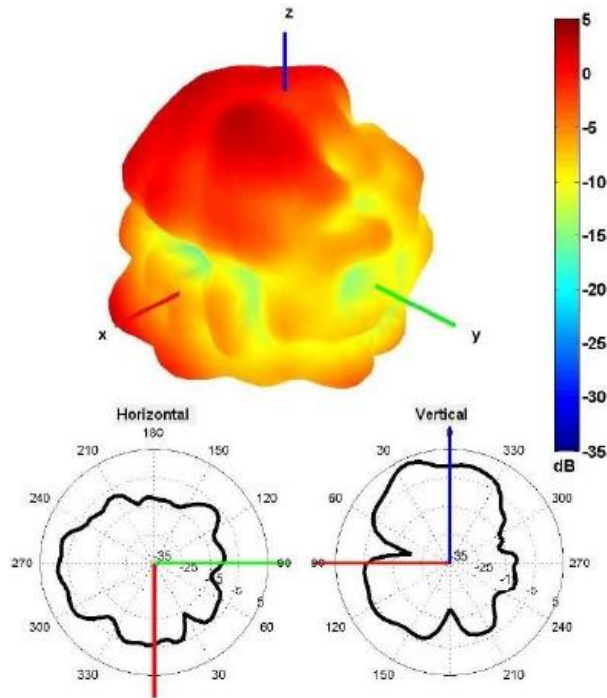


6500 MHz Radiation pattern

Cable 7: 2.4/5.0/6.0 GHz ISM

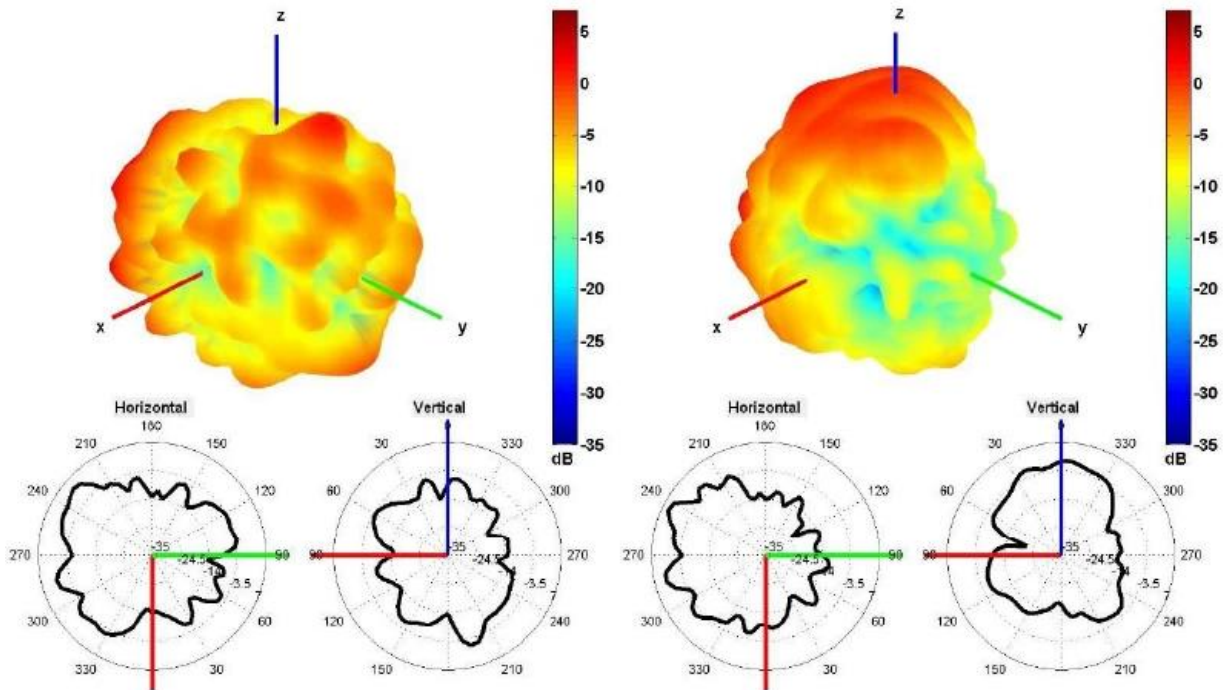


2450 and 5500 MHz Radiation pattern

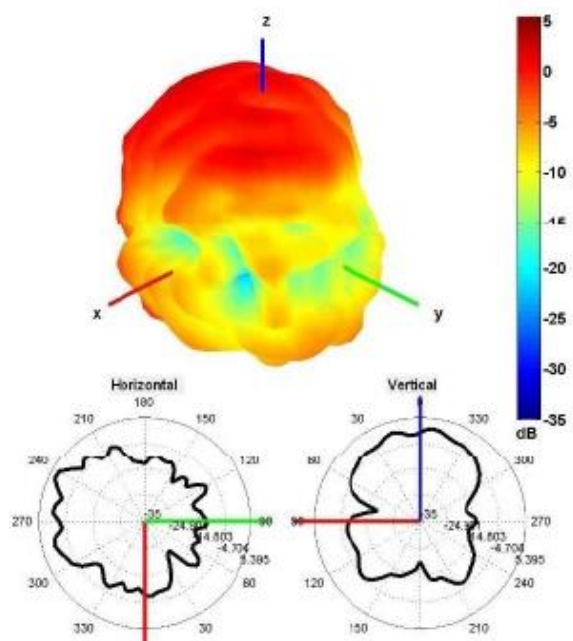


6500 MHz Radiation pattern

Cable 8: 2.4/5.0/6.0 GHz ISM



2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern



SCHÉMA(S)

