

Regulatory WWAN Antenna Information

ASUS CZ1104

[INPAQ antenna]

Tx Antenna		
Vendor (Manufacturer)	INPAQ	
Parts Number	Main Antenna:	WA-F-S6G1-02-025
	Auxiliary Antenna:	WA-F-S6G1-03-002 (RX only)
Address of Vendor (Manufacturer)	No. 11, Keyi St., Zhunan Township, Miaoli County 350402, Taiwan	
Transmitter Module		
WWAN Module	FM101-GL	

Antenna Information

Section 1. Antenna Assembly Specifications

Green = FM101-GL
Gray = No Support Plan

Main Antenna

Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Frequency (MHz)	Cable Loss (dB)	Peak Gain (including cable loss)			
						Horizontal (dBi)	Vertical (dBi)	Total (dBi)	
WA-F-S6G1-0 2-025	INPAQ	PIFA	50 ohm Coaxial. length:530mm diameterr:1.13mm lowloss Connector: Caimei RF-4L13 958-C413-W-B-Bu	EU/ANZ/CN/Japan UMTS/HSPA (UMTS 2100, Band 1) (UE-UTRA, Band 1, n1)	1920.00	1.40	-4.70	-3.59	-1.54
					1950.00	1.42	-4.37	-2.93	-1.14
					1980.00	1.46	-2.98	-1.76	-0.78
				FCC Part 24 GSM/GPRS/EDGE (GSM 1900) UMTS/HSPA/EVDO (UMTS1900, Band 2) (UE-UTRA, Band 2, n2)	1850.00	1.38	-5.23	-3.84	-2.13
					1880.00	1.38	-4.50	-3.89	-2.31
					1910.00	1.39	-4.76	-3.90	-1.66
				EU/ANZ/CN/Japan GSM/GPRS/EDGE (GSM 1800, Band 3) (UE-UTRA, Band 3, n3)	1710.00	1.34	-4.58	-4.82	-1.12
					1747.50	1.35	-6.13	-4.22	-0.76
					1785.00	1.35	-0.48	-3.72	-1.03
				FCC Part 27 UMTS(AWS) / HSPA (UMTS, Band 4) (UE-UTRA, Band 4)	1710.00	1.34	-4.58	-4.82	-1.12
					1732.50	1.34	-3.98	-4.75	-0.67
					1755.00	1.35	-5.57	-4.05	-0.99
				FCC Part 22 GSM/GPRS/EDGE (GSM 850) ANZ (UMTS850, Band 5) (UE-UTRA, Band 5, n5)	824.00	0.81	-8.84	-5.10	-1.94
					836.50	0.82	-6.32	-1.59	-1.43
					849.00	0.83	-6.81	-1.38	-1.32
				Japan (UMTS, Band 6)	830.00	0.82	-9.23	-5.35	-1.32
					835.00	0.82	-8.07	-2.39	-1.11
					840.00	0.83	-7.43	-4.90	-1.43
				FCC Part 27 CA/EU/ANZ (UE-UTRA, Band 7, n7)	2500.00	1.65	-1.17	2.34	2.37
					2535.00	1.66	-1.89	1.84	2.67
					2570.00	1.66	-2.48	1.90	2.58
				EU/ANZ/Japan UMTS/HSPA (UMTS 900, Band 8) (UE-UTRA, Band 8, n8)	880.00	0.91	-8.49	-1.54	-0.48
					897.50	0.93	-6.65	-1.67	-0.79
					915.00	1.00	-4.16	-4.58	-2.14
				Japan (WCDMA, Band 9)	1844.9				
					1862.5				
					1879.9				
				FCC Part 27 (UE-UTRA, Band 12, n12)	699.00	0.73	-5.08	-2.90	-1.10
					707.50	0.74	-4.88	-2.70	-0.83
					716.00	0.74	-4.60	-2.45	-1.22
				FCC Part 27 (UE-UTRA, Band 13)	777.00	0.74	-5.58	-2.45	-1.11
					782.00	0.75	-5.49	-2.50	-1.42
					787.00	0.75	-5.69	-2.50	-1.24
FCC Part 90 (UE-UTRA, Band 14)	788.00	0.75	-5.69	-2.50	-1.32				
	793.00	0.75	-5.81	-2.98	-1.24				
	798.00	0.75	-6.34	-3.09	-1.77				
FCC Part 27 (UE-UTRA, Band 17)	704.00	0.73	-2.39	-2.77	-1.05				
	710.00	0.74	-4.88	-2.70	-1.07				
	716.00	0.74	-4.60	-2.45	-0.92				
Japan (UE-UTRA, Band 18)	815.00	0.79	-7.68	-4.16	-2.72				
	822.50	0.81	-8.68	-4.97	-3.47				
	830.00	0.82	-9.23	-5.35	-4.23				

				Japan (UMTS, Band 19) (UE-UTRA, Band 19)	830.00	0.82	-9.23	-5.35	-1.32
					837.50	0.82	-7.58	-4.91	-1.43
					845.00	0.83	-6.98	-0.79	-0.98
				EU (UE-UTRA, Band 20, n20)	832.00	0.83	-8.73	-5.25	-4.52
					847.00	0.84	-6.94	-0.79	-4.50
					862.00	0.84	-6.89	-0.83	-1.67
				FCC Part 24 (UE-UTRA, Band 25)	1850.00	1.38	-5.08	-3.66	-2.23
					1882.50	1.38	-4.34	-3.96	-2.28
					1915	1.39	-4.68	-3.65	-1.58
				FCC Part 90, 22H (UE-UTRA, Band 26)	814.00	0.79	-7.56	-4.08	-2.98
					831.50	0.82	-8.85	-5.28	-0.99
					849.00	0.83	-6.81	-1.38	-1.32
				EU/ANZ/Japan (UE-UTRA, Band 28, n28)	703.00	0.74	-2.39	-2.83	-1.01
					725.50	0.74	-4.37	-2.43	-1.16
					748.00	0.75	-4.02	-3.64	-1.44
				FCC Part 27 CA (UE-UTRA, Band 29) * Down link only	717.00				
					722.50				
					728.00				
				FCC Part 27 (UE-UTRA, Band 30)	2305.00	1.57	-0.88	0.88	0.98
					2310.00	1.57	-0.97	0.93	0.79
					2315.00	1.57	-1.12	1.03	0.77
				EU (LTE, Band 32) * Down link only	1452.00				
					1474.00				
					1496.00				
				EU (LTE Band 34)	2010.00				
					2017.50				
					2025.00				
				EU/CN (UE-UTRA, Band 38, n38)	2570.00	1.66	-2.48	1.90	2.74
					2595.00	1.66	-2.25	1.90	2.41
					2620.00	1.67	-2.34	1.80	1.75
				CN (TD-SCDMA, Band 39)	1880.00	1.38	-4.50	-3.89	-2.32
					1900.00	1.38	-4.58	-4.18	-1.79
					1920.00	1.39	-4.70	-3.59	-1.67
				EU/ANZ/CN (UE-UTRA, Band 40)	2300.00	1.57	-0.69	0.90	1.81
					2350.00	1.57	-1.46	1.20	1.89
					2400.00	1.59	-1.82	2.08	1.73
				FCC Part 27 US/CN/Japan (UE-UTRA, Band 41, n41)	2496.00	1.65	-1.29	2.32	2.78
					2593.00	1.67	-2.28	1.82	2.43
					2690.00	1.71	-2.80	0.06	0.95
				FCC Part 96 CA/EU/Japan (LTE Band 42)	3400.00	1.96	2.48	-1.82	2.79
					3500.00	1.98	1.95	-2.14	2.28
					3600.00	2.00	-1.17	-1.10	0.47
				CE (LTE Band 43)	3600.00	2.00	-1.17	-1.10	1.47
					3700.00	2.00	-1.50	-1.20	1.25
					3800.00	2.01	-1.68	-1.42	1.25
				FCC Part 15, 90, 95 (LTE Band 46) TD Unlicensed, LAA RCV only	5150.00				
					5537.00				
					5925.00				
				FCC Part 96 (LTE Band 48)	3550.00	1.99	0.33	-1.24	0.76
					3625.00	2.03	-1.51	-1.08	0.56
					3700.00	2.04	-1.50	-1.20	0.25
				FCC Part 27 (LTE, Band 66, n66)	1710.00	1.34	-4.58	-4.82	-1.12
					1745.00	1.34	-3.19	-1.32	-1.12
1780.00	1.34	-5.06	-3.78		-1.01				
FCC Part 24, 27 (LTE Band 71, n71)	663.00	0.71	-6.50	-4.85	-3.27				
	680.50	0.71	-4.80	-3.47	-1.65				
	698.00	0.71	-5.08	-2.90	-1.20				
FCC/EU/CN/JP	3300.00								

				(5G NR Band 77)	3750.00				
					4200.00				
				EU/CN/JP (5G NR Band 78)	3300.00				
					3550.00				
					3800.00				
				CN/JP (5G NR Band 79)	4400.00				
					4700.00				
					5000.00				
				Japan (UE-UTRA, Band 21)	1477.90				
					1455.40				
					1462.90				
				Japan J-CDMA	815.00				
					824.70				
					836.52				
					848.31				
					870.00				
					880.20				
					897.60				
					914.80				
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940.00									
Japan J-CDMA	1922.40								
	1950.00								
	1977.60								

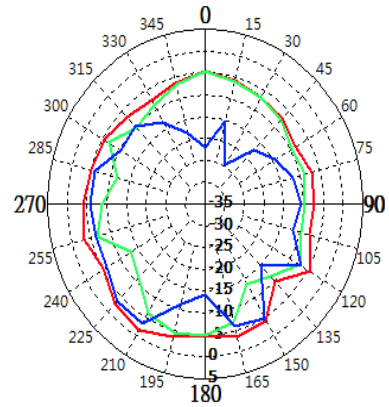
Section 2. Radiation characteristics of antenna

Radiation characteristic in 1920MHz ~ 1980MHz (EU/ANZ/CN/JP: UMTS/HSDPA, Band 1, n1)

Main antenna: 1920.00 MHz

— TOTAL
— H_POL
— V_POL

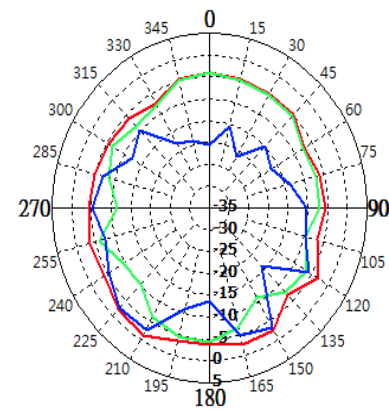
1920.00 MHz	
Horizontal Peak (dBi)	-4.70
Vertical Peak(dBi)	-3.59



Main antenna: 1950.00 MHz

— TOTAL
— H_POL
— V_POL

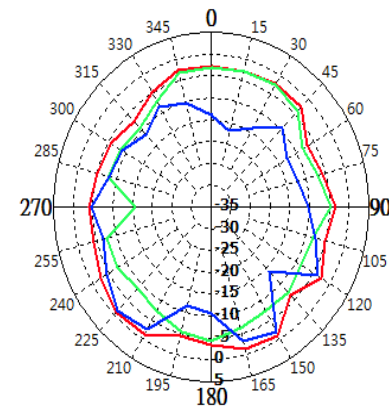
1950.00 MHz	
Horizontal Peak (dBi)	-4.37
Vertical Peak(dBi)	-2.93



Main antenna: 1980.00 MHz

— TOTAL
— H_POL
— V_POL

1980.00 MHz	
Horizontal Peak (dBi)	-2.98
Vertical Peak(dBi)	-1.76

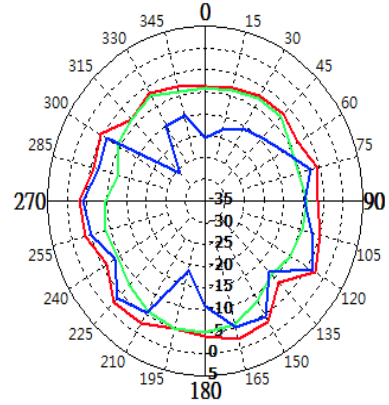


Radiation characteristic in 1850MHz ~ 1910MHz (FCC Part 24 PCS, Band 2, n2)

Main antenna: 1850.00 MHz

- TOTAL
- H_POL
- V_POL

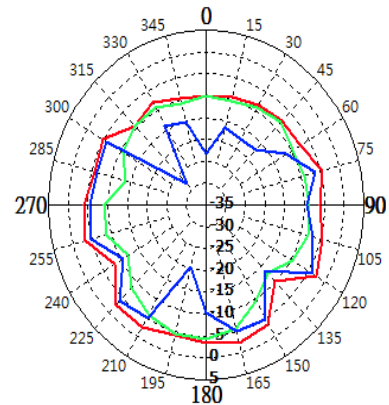
1850.00 MHz	
Horizontal Peak (dBi)	-5.23
Vertical Peak(dBi)	-3.84



Main antenna: 1880.00 MHz

- TOTAL
- H_POL
- V_POL

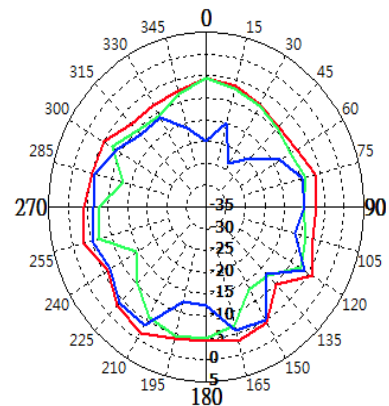
1880.00 MHz	
Horizontal Peak (dBi)	-4.50
Vertical Peak(dBi)	-3.89



Main antenna: 1910.00 MHz

- TOTAL
- H_POL
- V_POL

1910.00 MHz	
Horizontal Peak (dBi)	-4.76
Vertical Peak(dBi)	-3.90

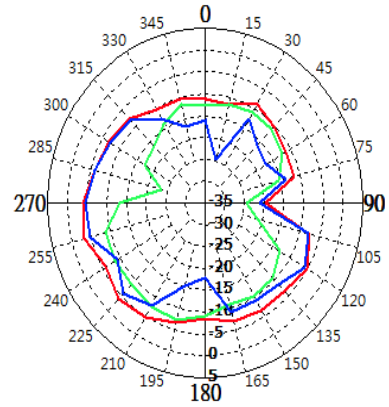


Radiation characteristic in 1710MHz ~ 1785MHz (EU/ANZ/CN/JP: UE-UTRA, Band 3, n3)

Main antenna: 1710.00 MHz

- TOTAL
- H_POL
- V_POL

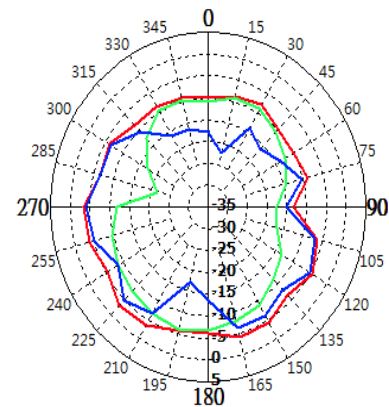
1710.00 MHz	
Horizontal Peak (dBi)	-4.58
Vertical Peak(dBi)	-4.82



Main antenna: 1747.50 MHz

- TOTAL
- H_POL
- V_POL

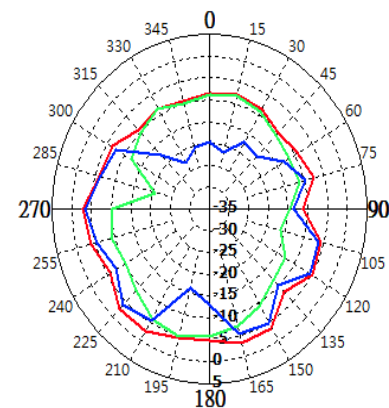
1747.50 MHz	
Horizontal Peak (dBi)	-6.13
Vertical Peak(dBi)	-4.22



Main antenna: 1785.00 MHz

- TOTAL
- H_POL
- V_POL

1785.00 MHz	
Horizontal Peak (dBi)	-0.48
Vertical Peak(dBi)	-3.72

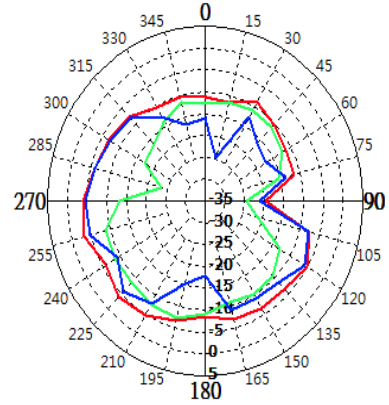


Radiation characteristic in 1710MHz ~ 1755MHz (FCC Part 27 UMTS(AWS), Band 4)

Main antenna: 1710.00 MHz

1710.00 MHz	
Horizontal Peak (dBi)	-4.58
Vertical Peak(dBi)	-4.82

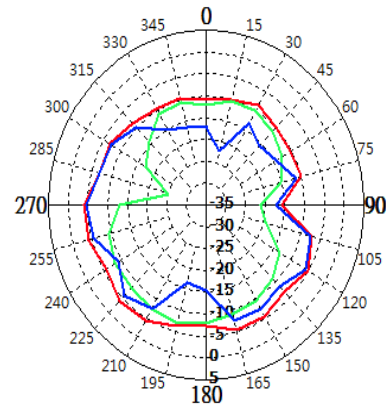
- TOTAL
- H_POL
- V_POL



Main antenna: 1732.50 MHz

1732.50 MHz	
Horizontal Peak (dBi)	-3.98
Vertical Peak(dBi)	-4.75

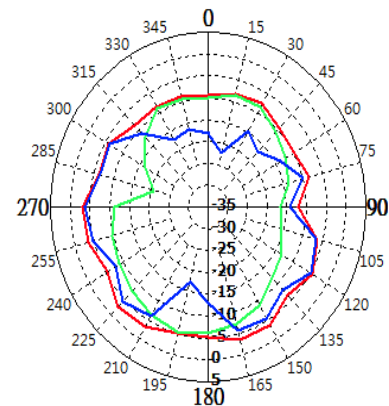
- TOTAL
- H_POL
- V_POL



Main antenna: 1755.00 MHz

1755.00 MHz	
Horizontal Peak (dBi)	-5.57
Vertical Peak(dBi)	-4.05

- TOTAL
- H_POL
- V_POL

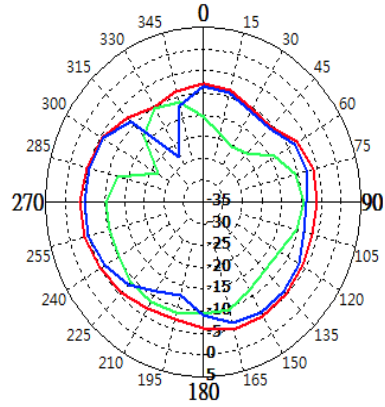


Radiation characteristic in 824MHz ~ 849MHz (FCC Part 22 Cellular, Band 5, n5)

Main antenna: 824.00 MHz

- TOTAL
- H_POL
- V_POL

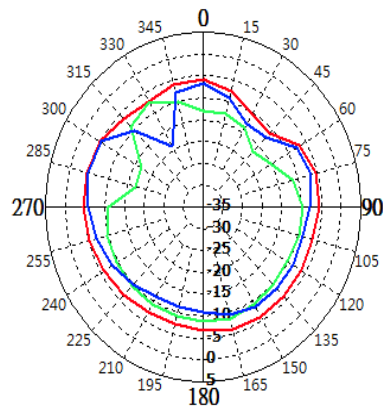
824.00 MHz	
Horizontal Peak (dBi)	-8.84
Vertical Peak(dBi)	-5.10



Main antenna: 836.50 MHz

- TOTAL
- H_POL
- V_POL

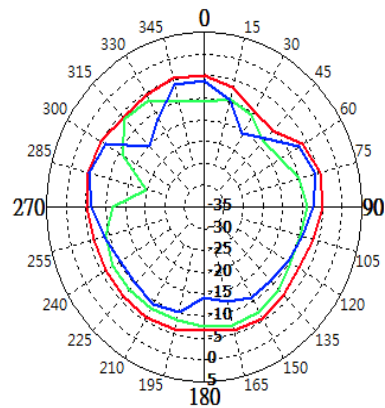
836.50 MHz	
Horizontal Peak (dBi)	-6.32
Vertical Peak(dBi)	-1.59



Main antenna: 849.0 MHz

- TOTAL
- H_POL
- V_POL

849.0 MHz	
Horizontal Peak (dBi)	-6.81
Vertical Peak(dBi)	-1.38

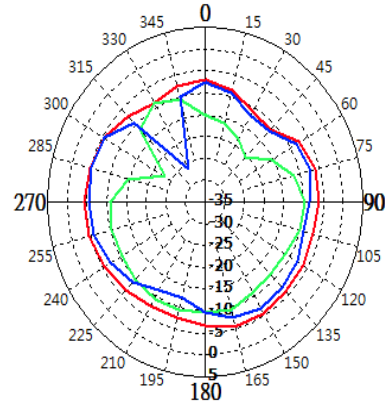


Radiation characteristic in 830MHz ~ 840MHz (Japan UMTS, Band 6)

Main antenna: 830.00 MHz

- TOTAL
- H_POL
- V_POL

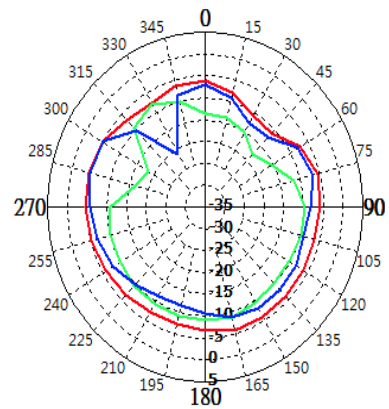
830.00 MHz	
Horizontal Peak (dBi)	-9.23
Vertical Peak(dBi)	-5.35



Main antenna: 835.0 MHz

- TOTAL
- H_POL
- V_POL

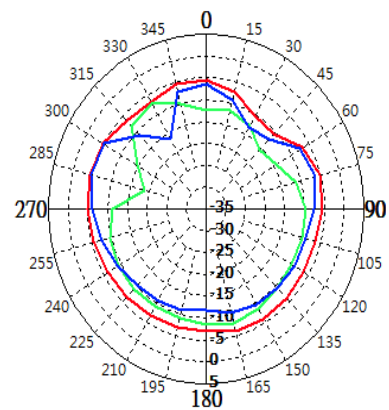
835.0 MHz	
Horizontal Peak (dBi)	-8.07
Vertical Peak(dBi)	-2.39



Main antenna: 840.0 MHz

- TOTAL
- H_POL
- V_POL

840.0 MHz	
Horizontal Peak (dBi)	-7.43
Vertical Peak(dBi)	-4.90

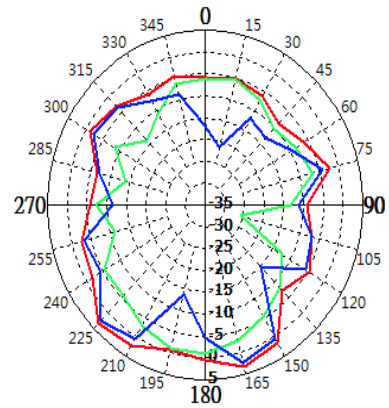


Radiation characteristic in 2500MHz ~ 2570MHz (CA/EU/ANZ UE-UTRA, Band 7, n7)

Main antenna: 2500.00 MHz

- TOTAL
- H_POL
- V_POL

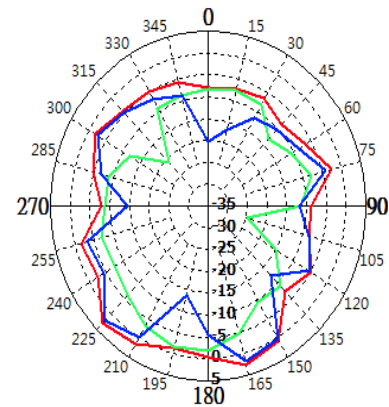
2500.00 MHz	
Horizontal Peak (dBi)	-1.17
Vertical Peak(dBi)	2.34



Main antenna: 2535.00 MHz

- TOTAL
- H_POL
- V_POL

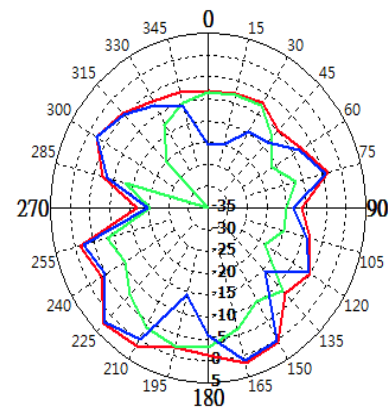
2535.00 MHz	
Horizontal Peak (dBi)	-1.89
Vertical Peak(dBi)	1.84



Main antenna: 2570.00 MHz

- TOTAL
- H_POL
- V_POL

2570.00 MHz	
Horizontal Peak (dBi)	-2.48
Vertical Peak(dBi)	1.90

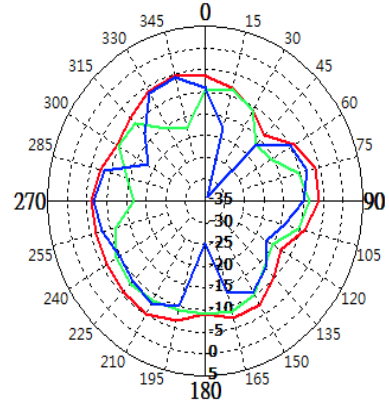


Radiation characteristic in 880MHz ~ 915MHz (EU/ANZ/JP: Band 8, n8)

Main antenna: 880.00 MHz

- TOTAL
- H_POL
- V_POL

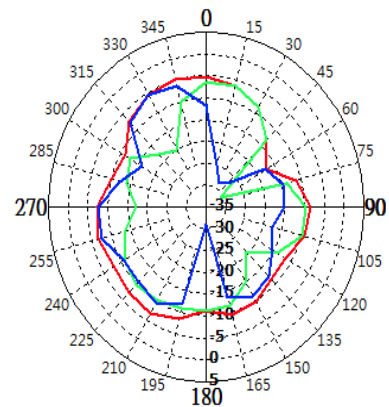
880.00 MHz	
Horizontal Peak (dBi)	-8.49
Vertical Peak(dBi)	-1.54



Main antenna: 897.50 MHz

- TOTAL
- H_POL
- V_POL

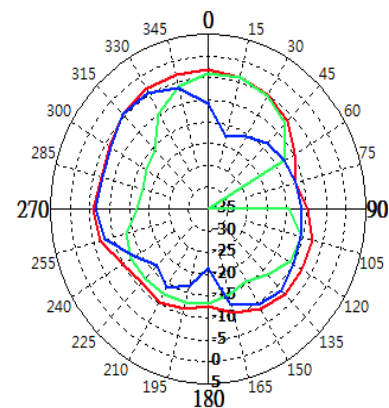
897.50 MHz	
Horizontal Peak (dBi)	-6.65
Vertical Peak(dBi)	-1.67



Main antenna: 915.00 MHz

- TOTAL
- H_POL
- V_POL

915.00 MHz	
Horizontal Peak (dBi)	-4.16
Vertical Peak(dBi)	-4.58

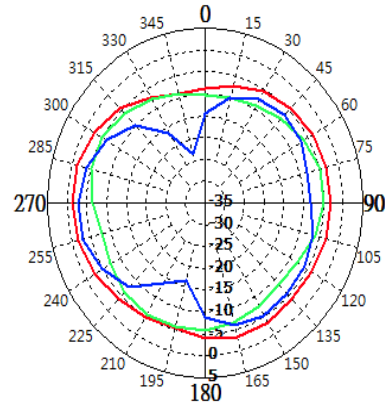


Radiation characteristic in 699MHz ~ 716MHz (FCC Part 27 UE-UTRA, Band 12, n12)

Main antenna: 699.00 MHz

699.00 MHz	
Horizontal Peak (dBi)	-5.08
Vertical Peak(dBi)	-2.90

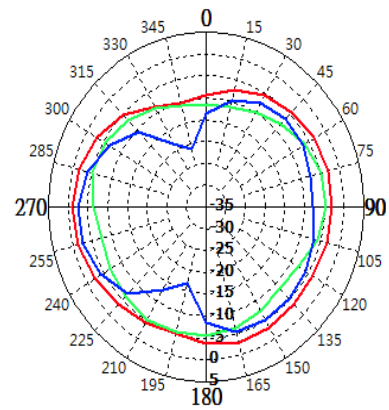
- TOTAL
- H_POL
- V_POL



Main antenna: 707.50 MHz

707.50 MHz	
Horizontal Peak (dBi)	-4.88
Vertical Peak(dBi)	-2.70

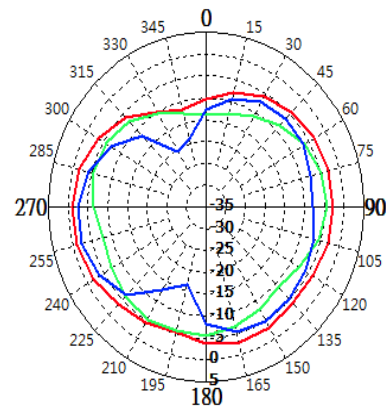
- TOTAL
- H_POL
- V_POL



Main antenna: 716.00 MHz

716.00 MHz	
Horizontal Peak (dBi)	-4.60
Vertical Peak(dBi)	-2.45

- TOTAL
- H_POL
- V_POL

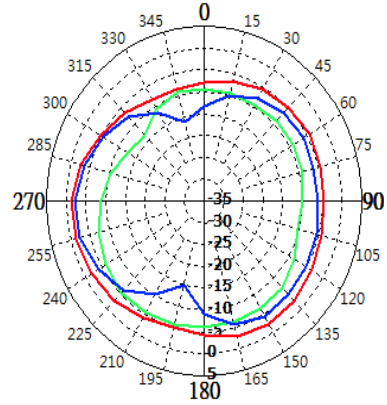


Radiation characteristic in 776MHz ~ 787MHz (FCC Part 27 UE-UTRA, Band 13)

Main antenna: 777.00 MHz

- TOTAL
- H_POL
- V_POL

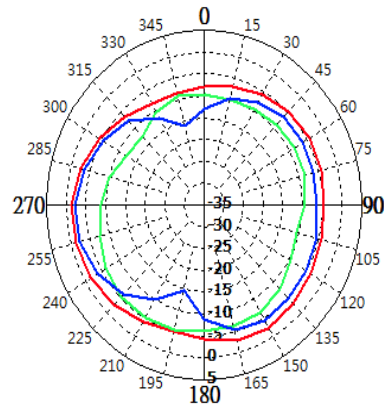
777.00 MHz	
Horizontal Peak (dBi)	-5.58
Vertical Peak(dBi)	-2.45



Main antenna: 782.00 MHz

- TOTAL
- H_POL
- V_POL

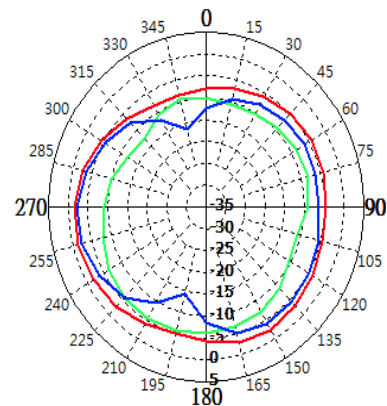
782.00 MHz	
Horizontal Peak (dBi)	-5.49
Vertical Peak(dBi)	-2.50



Main antenna: 787.00 MHz

- TOTAL
- H_POL
- V_POL

787.00 MHz	
Horizontal Peak (dBi)	-5.69
Vertical Peak(dBi)	-2.50

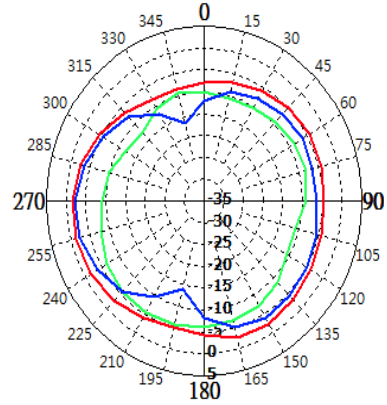


Radiation characteristic in 788MHz ~ 798MHz (FCC Part 90 UE-UTRA, Band 14)

Main antenna: 788.00 MHz

- TOTAL
- H_POL
- V_POL

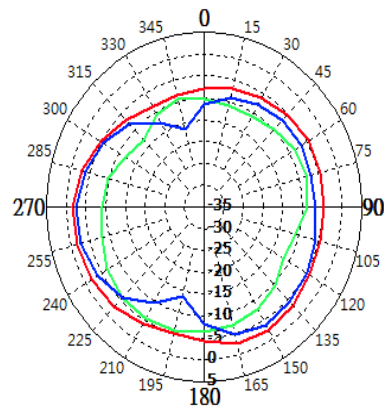
788.00 MHz	
Horizontal Peak (dBi)	-5.69
Vertical Peak(dBi)	-2.50



Main antenna: 793.00 MHz

- TOTAL
- H_POL
- V_POL

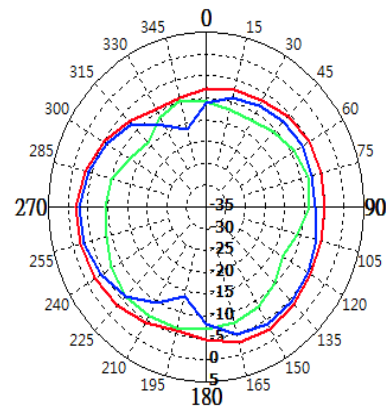
793.00 MHz	
Horizontal Peak (dBi)	-5.81
Vertical Peak(dBi)	-2.98



Main antenna: 798.00 MHz

- TOTAL
- H_POL
- V_POL

798.00 MHz	
Horizontal Peak (dBi)	-6.34
Vertical Peak(dBi)	-3.09

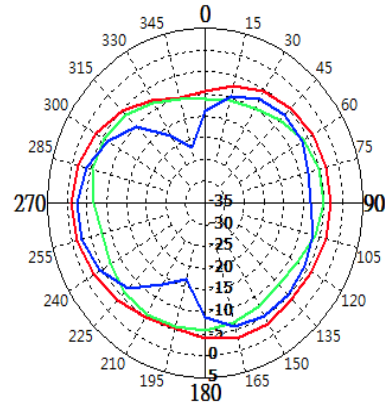


Radiation characteristic in 704MHz ~ 716MHz (FCC Part 27H UE-UTRA, Band 17)

Main antenna: 704.00 MHz

- TOTAL
- H_POL
- V_POL

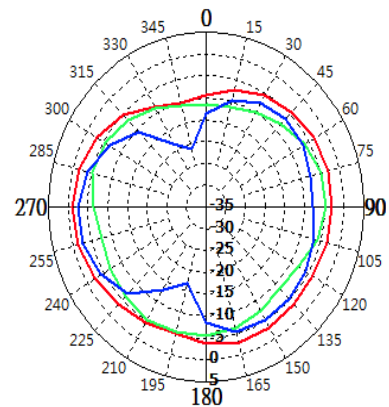
704.00 MHz	
Horizontal Peak (dBi)	-2.39
Vertical Peak(dBi)	-2.77



Main antenna: 710.00 MHz

- TOTAL
- H_POL
- V_POL

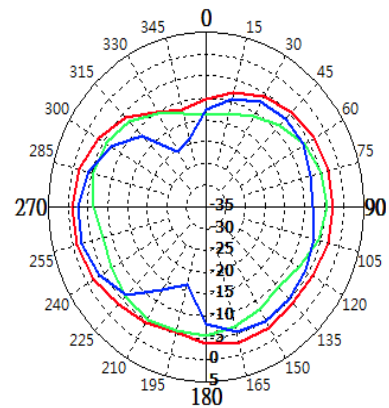
710.00 MHz	
Horizontal Peak (dBi)	-4.88
Vertical Peak(dBi)	-2.70



Main antenna: 716.00 MHz

- TOTAL
- H_POL
- V_POL

716.00 MHz	
Horizontal Peak (dBi)	-4.60
Vertical Peak(dBi)	-2.45

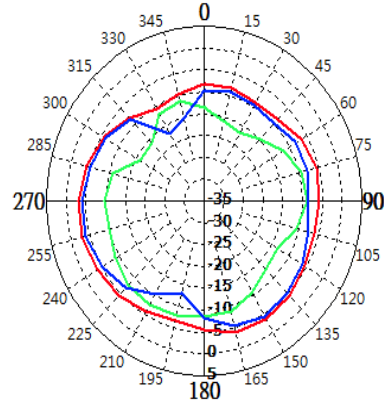


Radiation characteristic in 815MHz ~ 830MHz (Japan, Band 18)

Main antenna: 815.00 MHz

- TOTAL
- H_POL
- V_POL

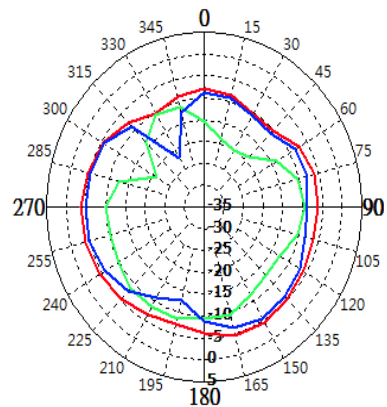
815.00 MHz	
Horizontal Peak (dBi)	-7.68
Vertical Peak(dBi)	-4.16



Main antenna: 822.50 MHz

- TOTAL
- H_POL
- V_POL

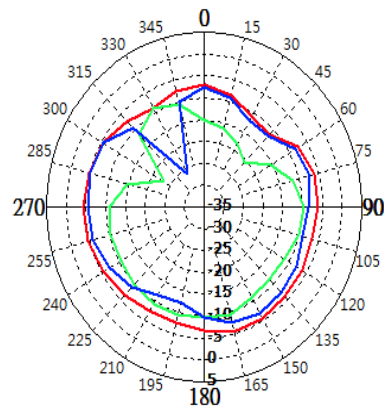
822.50 MHz	
Horizontal Peak (dBi)	-8.68
Vertical Peak(dBi)	-4.97



Main antenna: 830.00 MHz

- TOTAL
- H_POL
- V_POL

830.00 MHz	
Horizontal Peak (dBi)	-9.23
Vertical Peak(dBi)	-5.35

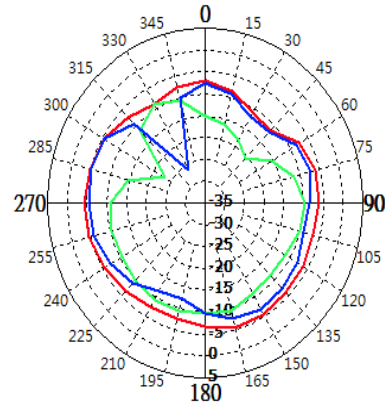


Radiation characteristic in 830MHz ~ 845MHz (Japan, Band 19)

Main antenna: 830.00 MHz

830.00 MHz	
Horizontal Peak (dBi)	-9.23
Vertical Peak(dBi)	-5.35

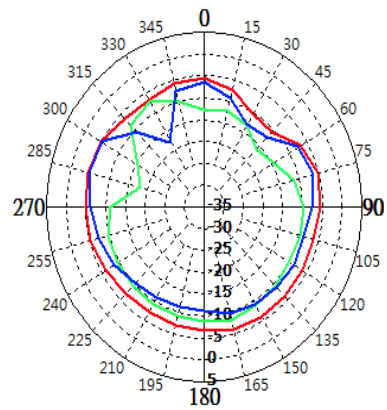
— TOTAL
— H_POL
— V_POL



Main antenna: 837.50 MHz

837.50 MHz	
Horizontal Peak (dBi)	-7.58
Vertical Peak(dBi)	-4.91

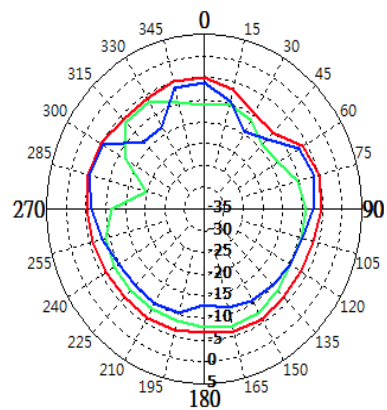
— TOTAL
— H_POL
— V_POL



Main antenna: 845.00 MHz

845.00 MHz	
Horizontal Peak (dBi)	-6.98
Vertical Peak(dBi)	-0.79

— TOTAL
— H_POL
— V_POL

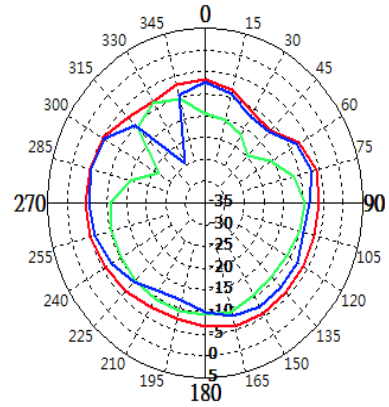


Radiation characteristic in 832MHz ~ 862MHz (EU UE-UTRA, Band 20, n20)

Main antenna: 832.00 MHz

- TOTAL
- H_POL
- V_POL

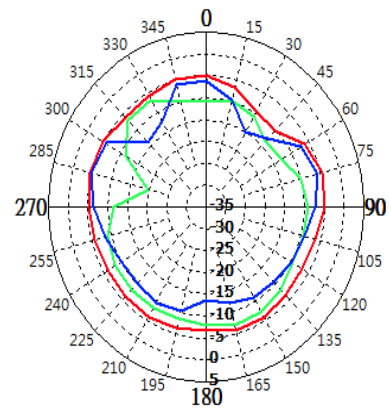
832.00 MHz	
Horizontal Peak (dBi)	-8.73
Vertical Peak(dBi)	-5.25



Main antenna: 847.00 MHz

- TOTAL
- H_POL
- V_POL

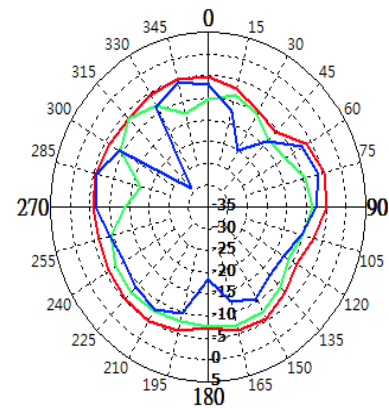
847.00 MHz	
Horizontal Peak (dBi)	-6.94
Vertical Peak(dBi)	-0.79



Main antenna: 862.00 MHz

- TOTAL
- H_POL
- V_POL

862.00 MHz	
Horizontal Peak (dBi)	-6.89
Vertical Peak(dBi)	-0.83

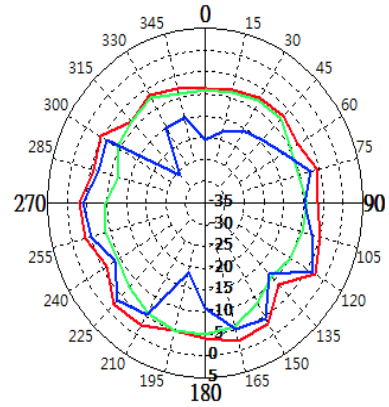


Radiation characteristic in 1850MHz ~ 1915MHz (FCC Part 24 UE-UTRA, Band 25)

Main antenna: 1850.00 MHz

— TOTAL
— H_POL
— V_POL

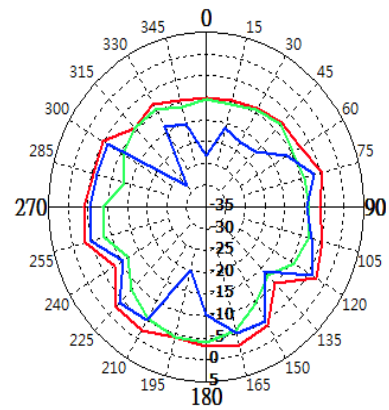
1850.00 MHz	
Horizontal Peak (dBi)	-5.08
Vertical Peak(dBi)	-3.66



Main antenna: 1882.50 MHz

— TOTAL
— H_POL
— V_POL

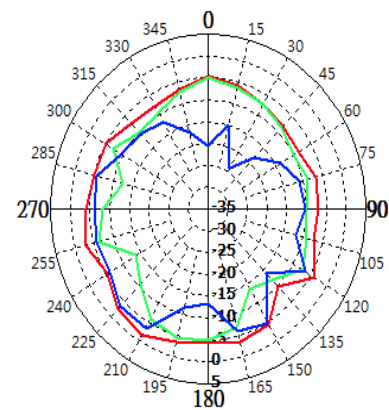
1882.50 MHz	
Horizontal Peak (dBi)	-4.34
Vertical Peak(dBi)	-3.96



Main antenna: 1915.00 MHz

— TOTAL
— H_POL
— V_POL

1915.00 MHz	
Horizontal Peak (dBi)	-4.68
Vertical Peak(dBi)	-3.65

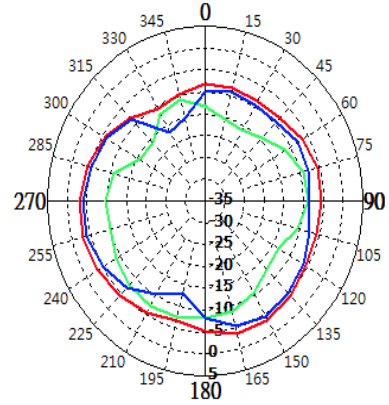


Radiation characteristic in 814MHz ~ 849MHz (FCC Part 90, 22H UE-UTRA, Band 26)

Main antenna: 814.00 MHz

- TOTAL
- H_POL
- V_POL

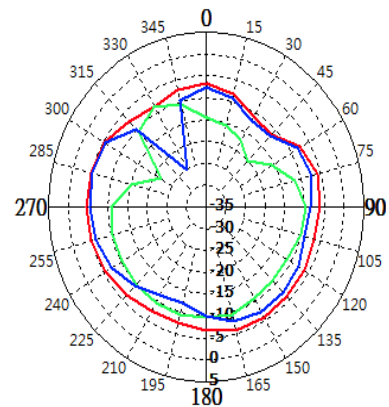
814.00 MHz	
Horizontal Peak (dBi)	-7.56
Vertical Peak(dBi)	-4.08



Main antenna: 831.50 MHz

- TOTAL
- H_POL
- V_POL

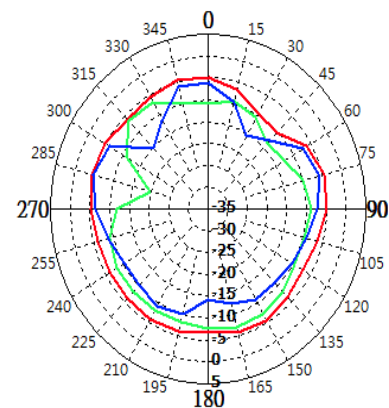
831.50 MHz	
Horizontal Peak (dBi)	-8.85
Vertical Peak(dBi)	-5.28



Main antenna: 849.00 MHz

- TOTAL
- H_POL
- V_POL

849.00 MHz	
Horizontal Peak (dBi)	-6.81
Vertical Peak(dBi)	-1.38

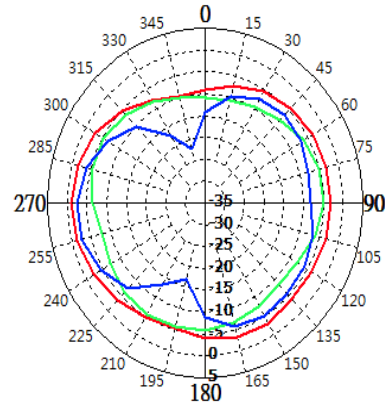


Radiation characteristic in 703MHz ~ 748MHz (EU/ANZ/Japan UE-UTRA, Band 28, 28)

Main antenna: 703.00 MHz

703.00 MHz	
Horizontal Peak (dBi)	-2.39
Vertical Peak(dBi)	-2.83

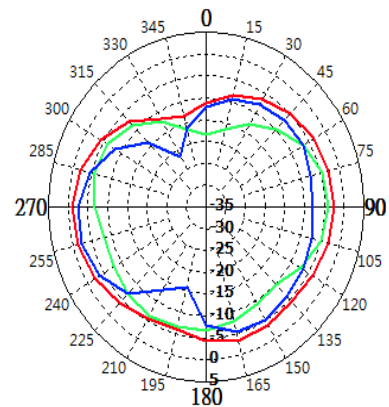
- TOTAL
- H_POL
- V_POL



Main antenna: 725.50 MHz

725.50 MHz	
Horizontal Peak (dBi)	-4.37
Vertical Peak(dBi)	-2.43

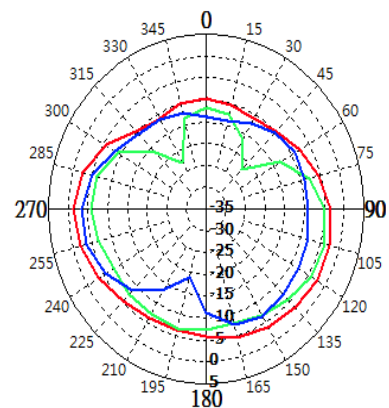
- TOTAL
- H_POL
- V_POL



Main antenna: 748.00 MHz

748 MHz	
Horizontal Peak (dBi)	-4.02
Vertical Peak(dBi)	-3.64

- TOTAL
- H_POL
- V_POL



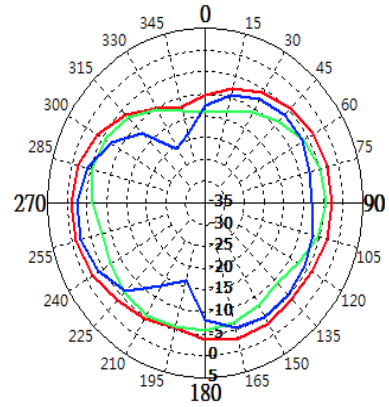
Radiation characteristic in 717MHz ~ 728MHz (FCC Part 27 UE-UTRA, Band 29)

* Down link only

Main antenna: 717.00 MHz

- TOTAL
- H_POL
- V_POL

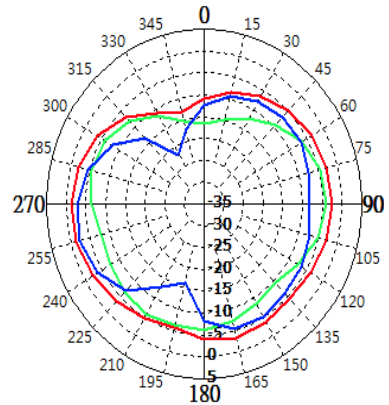
717.00 MHz	
Horizontal Peak (dBi)	-1.43
Vertical Peak(dBi)	-2.45



Main antenna: 722.50 MHz

- TOTAL
- H_POL
- V_POL

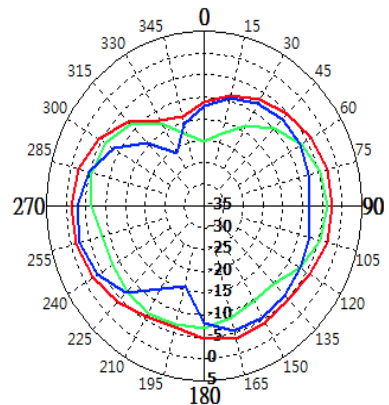
722.50 MHz	
Horizontal Peak (dBi)	-4.25
Vertical Peak(dBi)	-2.59



Main antenna: 728.00 MHz

- TOTAL
- H_POL
- V_POL

728.00 MHz	
Horizontal Peak (dBi)	-3.93
Vertical Peak(dBi)	-2.48

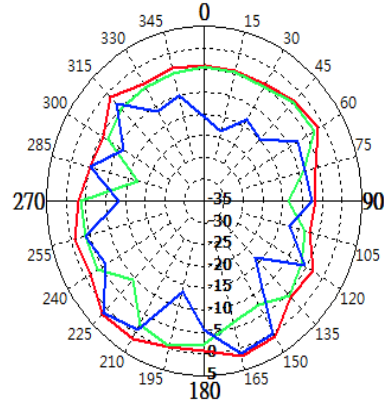


Radiation characteristic in 2305MHz ~ 2315MHz (FCC Part 27 UE-UTRA, Band 30)

Main antenna: 2305.00 MHz

- TOTAL
- H_POL
- V_POL

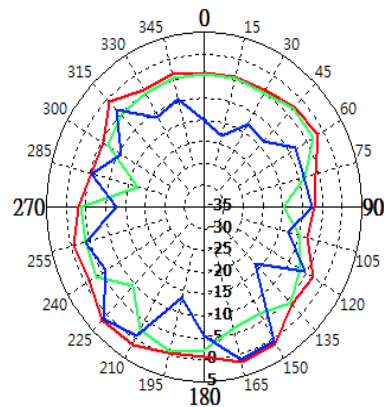
2305.00 MHz	
Horizontal Peak (dBi)	-0.88
Vertical Peak(dBi)	0.88



Main antenna: 2310.00 MHz

- TOTAL
- H_POL
- V_POL

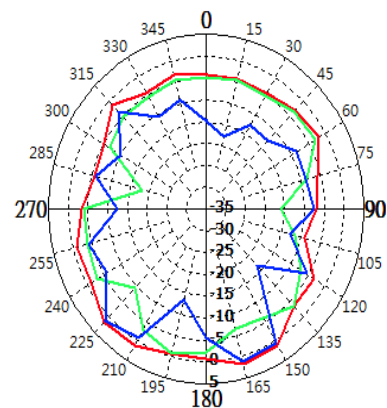
2310.00 MHz	
Horizontal Peak (dBi)	-0.97
Vertical Peak(dBi)	0.93



Main antenna: 2315.00 MHz

- TOTAL
- H_POL
- V_POL

2315.00 MHz	
Horizontal Peak (dBi)	-1.12
Vertical Peak(dBi)	1.03

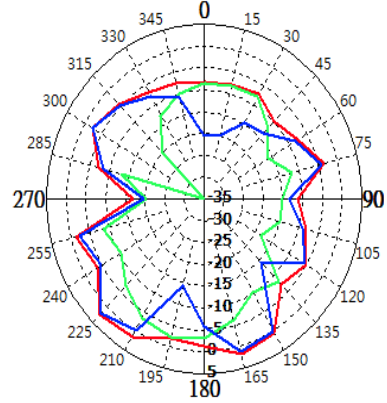


Radiation characteristic in 2570MHz ~ 2620MHz (EU/CN UE-UTRA, Band 38,n38)

Main antenna: 2570.00 MHz

- TOTAL
- H_POL
- V_POL

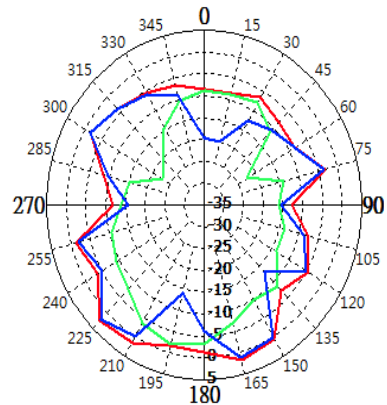
2570.00 MHz	
Horizontal Peak (dBi)	-2.48
Vertical Peak(dBi)	1.90



Main antenna: 2595.00 MHz

- TOTAL
- H_POL
- V_POL

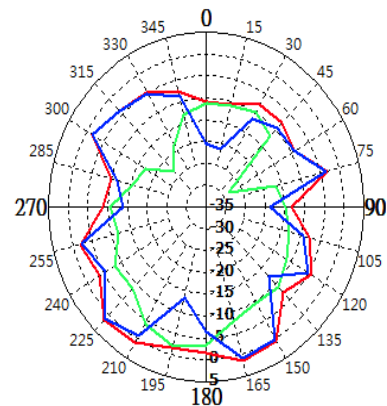
2595.00 MHz	
Horizontal Peak (dBi)	-2.25
Vertical Peak(dBi)	1.90



Main antenna: 2620.00 MHz

- TOTAL
- H_POL
- V_POL

2620.00 MHz	
Horizontal Peak (dBi)	-2.34
Vertical Peak(dBi)	1.80

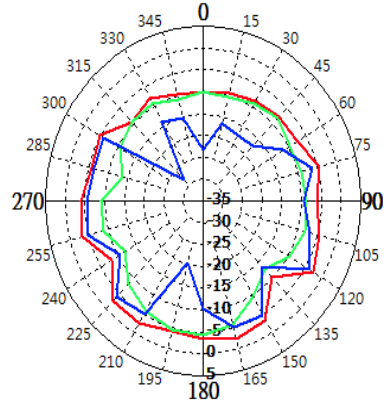


Radiation characteristic in 1880MHz ~ 1920MHz (CN TD-SCDMA, Band 39)

Main antenna: 1880.00 MHz

- TOTAL
- H_POL
- V_POL

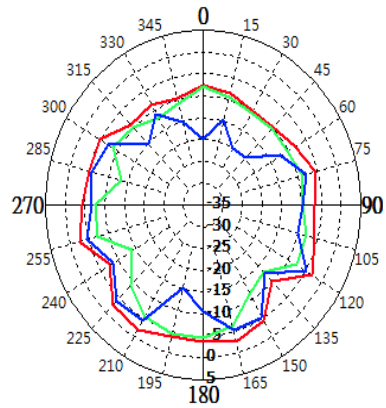
1880.00 MHz	
Horizontal Peak (dBi)	-4.50
Vertical Peak(dBi)	-3.89



Main antenna: 1900.00 MHz

- TOTAL
- H_POL
- V_POL

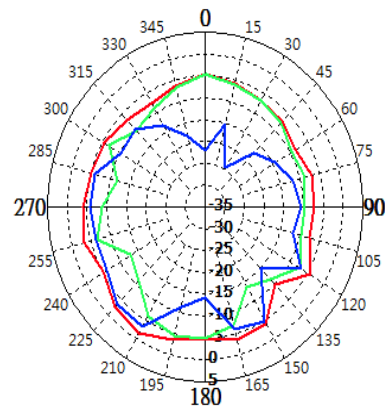
1900.00 MHz	
Horizontal Peak (dBi)	-4.58
Vertical Peak(dBi)	-4.18



Main antenna: 1920.00 MHz

- TOTAL
- H_POL
- V_POL

1920.00 MHz	
Horizontal Peak (dBi)	-4.70
Vertical Peak(dBi)	-3.59

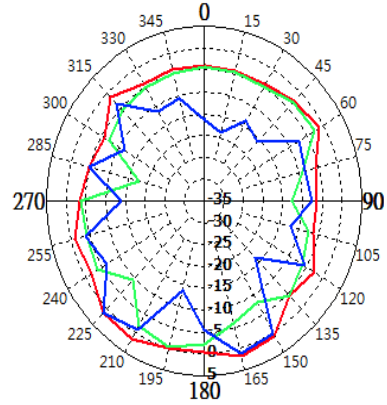


Radiation characteristic in 2300MHz ~ 2400MHz (EU/ANZ/CN UE-UTRA, Band 40)

Main antenna: 2300.00 MHz

— TOTAL
— H_POL
— V_POL

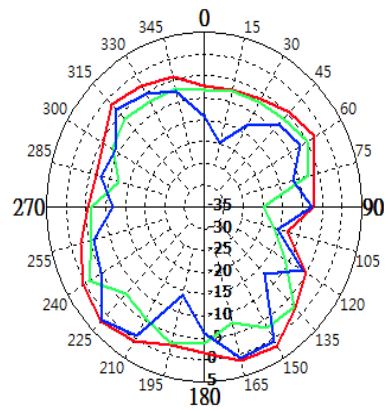
2300.00 MHz	
Horizontal Peak (dBi)	-0.69
Vertical Peak(dBi)	0.90



Main antenna: 2350.00 MHz

— TOTAL
— H_POL
— V_POL

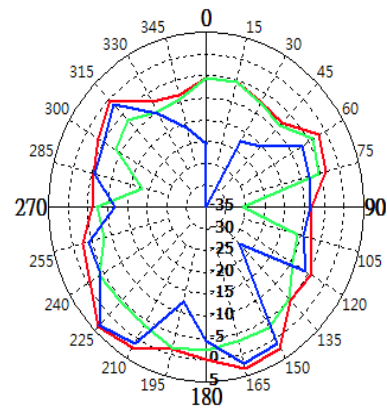
2350.00 MHz	
Horizontal Peak (dBi)	-1.46
Vertical Peak(dBi)	1.20



Main antenna: 2400.00 MHz

— TOTAL
— H_POL
— V_POL

2400.00 MHz	
Horizontal Peak (dBi)	-1.82
Vertical Peak(dBi)	2.08

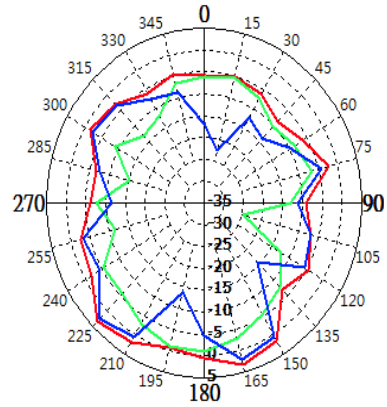


Radiation characteristic in 2496MHz ~ 2690MHz (FCC Part 27 UE-UTRA, Band 41, n41)

Main antenna: 2496.00 MHz

- TOTAL
- H_POL
- V_POL

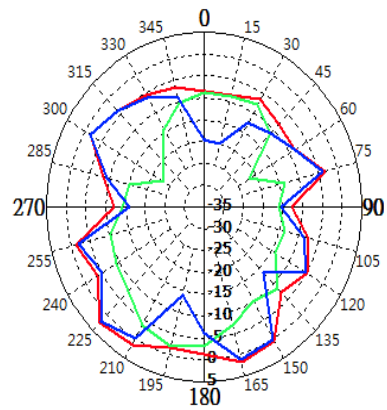
2496.00 MHz	
Horizontal Peak (dBi)	-1.29
Vertical Peak(dBi)	2.32



Main antenna: 2593.00 MHz

- TOTAL
- H_POL
- V_POL

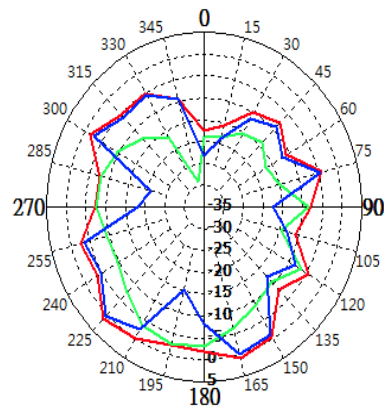
2593.00 MHz	
Horizontal Peak (dBi)	-2.28
Vertical Peak(dBi)	1.82



Main antenna: 2690.00 MHz

- TOTAL
- H_POL
- V_POL

2690.00 MHz	
Horizontal Peak (dBi)	-2.80
Vertical Peak(dBi)	0.06

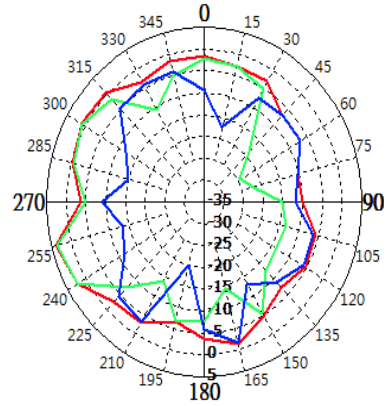


Radiation characteristic in 3400MHz ~ 3600MHz (FCC Part 96 CA/EU/Japan LTE, Band 42)

Main antenna: 3400.00 MHz

3400.00 MHz	
Horizontal Peak (dBi)	2.48
Vertical Peak(dBi)	-1.82

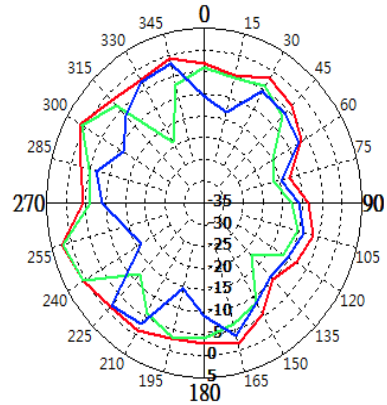
- TOTAL
- H_POL
- V_POL



Main antenna: 3500.00 MHz

3500.00 MHz	
Horizontal Peak (dBi)	1.95
Vertical Peak(dBi)	-2.14

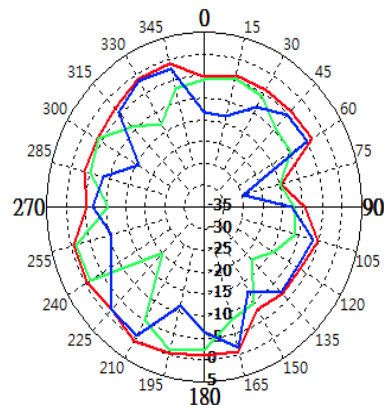
- TOTAL
- H_POL
- V_POL



Main antenna: 3600.00 MHz

3600.00 MHz	
Horizontal Peak (dBi)	-1.17
Vertical Peak(dBi)	-1.10

- TOTAL
- H_POL
- V_POL

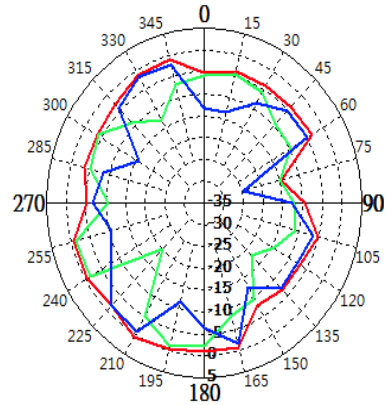


Radiation characteristic in 3600MHz ~ 3800MHz (CE LTE, Band 43)

Main antenna: 3600.00 MHz

- TOTAL
- H_POL
- V_POL

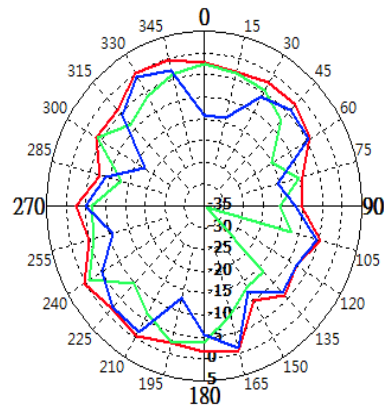
3600.00 MHz	
Horizontal Peak (dBi)	-1.17
Vertical Peak(dBi)	-1.10



Main antenna: 3700.00 MHz

- TOTAL
- H_POL
- V_POL

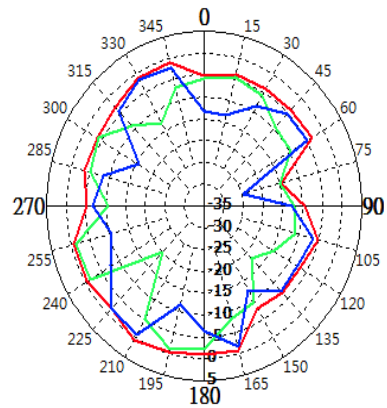
3700.00 MHz	
Horizontal Peak (dBi)	-1.50
Vertical Peak(dBi)	-1.20



Main antenna: 3800.00 MHz

- TOTAL
- H_POL
- V_POL

3800.00 MHz	
Horizontal Peak (dBi)	-1.68
Vertical Peak(dBi)	-1.42

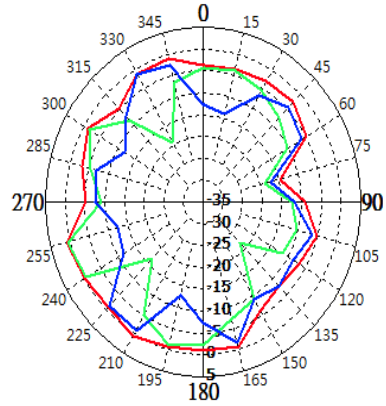


Radiation characteristic in 3550MHz ~ 3700MHz (FCC Part 96 LTE, Band 48)

Main antenna: 3550.00 MHz

3550.00 MHz	
Horizontal Peak (dBi)	0.33
Vertical Peak(dBi)	-1.24

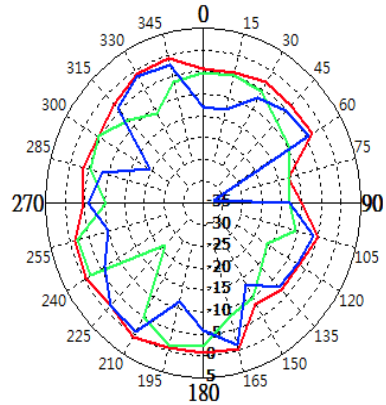
- TOTAL
- H_POL
- V_POL



Main antenna: 3625.00 MHz

3625.00 MHz	
Horizontal Peak (dBi)	-1.51
Vertical Peak(dBi)	-1.08

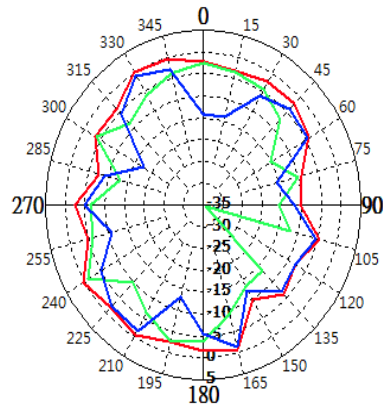
- TOTAL
- H_POL
- V_POL



Main antenna: 3700.00 MHz

3700.00 MHz	
Horizontal Peak (dBi)	-1.50
Vertical Peak(dBi)	-1.20

- TOTAL
- H_POL
- V_POL

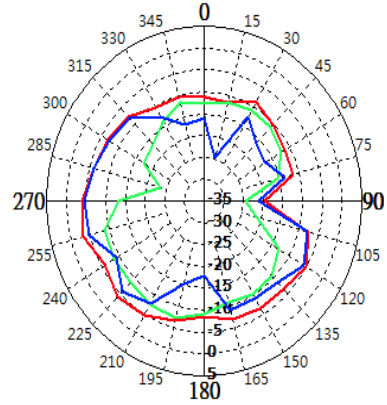


Radiation characteristic in 1710MHz ~ 1780MHz (FCC Part 27 LTE, Band 66, n66)

Main antenna: 1710.00 MHz

1710.00 MHz	
Horizontal Peak (dBi)	-4.58
Vertical Peak(dBi)	-4.82

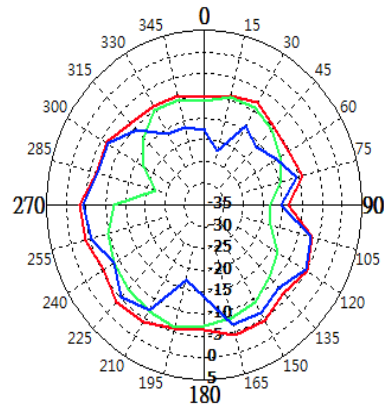
- TOTAL
- H_POL
- V_POL



Main antenna: 1745.00 MHz

1745.00 MHz	
Horizontal Peak (dBi)	-3.19
Vertical Peak(dBi)	-1.32

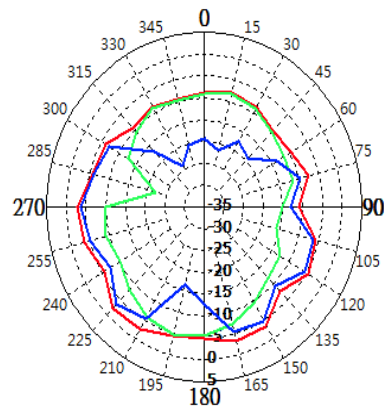
- TOTAL
- H_POL
- V_POL



Main antenna: 1780.00 MHz

1780.00 MHz	
Horizontal Peak (dBi)	-5.06
Vertical Peak(dBi)	-3.78

- TOTAL
- H_POL
- V_POL

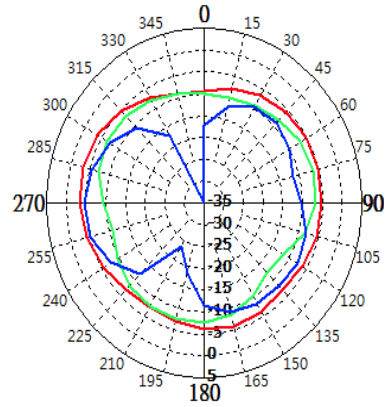


Radiation characteristic in 663MHz ~ 698MHz (FCC Part 24, 27 LTE, Band 71, n71)

Main antenna: 663.00 MHz

- TOTAL
- H_POL
- V_POL

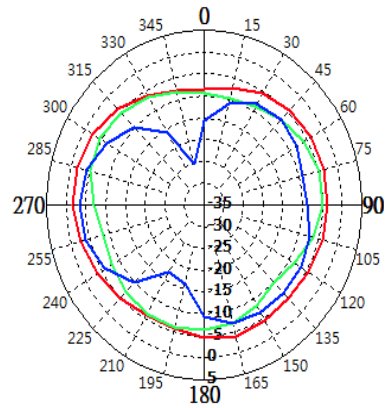
663.00 MHz	
Horizontal Peak (dBi)	-6.50
Vertical Peak(dBi)	-4.85



Main antenna: 680.50 MHz

- TOTAL
- H_POL
- V_POL

680.50 MHz	
Horizontal Peak (dBi)	-4.80
Vertical Peak(dBi)	-3.47



Main antenna: 698.00 MHz

- TOTAL
- H_POL
- V_POL

698.00 MHz	
Horizontal Peak (dBi)	-5.08
Vertical Peak(dBi)	-2.90

