

Regulatory WWAN Antenna Information

Platform information				
Brand	ODM	Platform model name (RMN)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)
HP	COMPAL	TPN-C182	Regular NB	187.58
Antenna information				Maximum Peak gain
Vendor	Type	Antenna Part number (Ant5 (M) TX/RX)	Antenna Part number (Ant6 (D/G) SRS/RX)	1780MHz (Choice TX high peak gain)
INPAQ	PIFA	DC330036E30 MDA-S6G1-02-008	DC330036E40 WA-P-S6G1-02-049	1.9 dBi
Module information				
Model	Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....)			
RW135R-G L	Qualcomm® Snapdragon™ X35 5G Release 17 RedCap (PeroniR-C)			

Antenna vendor connect person	
Antenna Vendor	INPAQ
contact person	Joevy Ruan
E-mail	JoevyRuan@inpaq.com.tw
Tel/Mobile	+886-2-7729-4296 # 22009
Web address	www.inpaq.com.tw
Address	No. 11, Keyi St., Zhunan Township, Miaoli County 350402, Taiwan (R.O.C.)

Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna Assembly	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Tx antenna Gain (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of Tx and Rx antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	N/A	Required	Required	Required	N/A
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. <u>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</u>	Required	Required	Desired	<u>Required (Photos)</u>	<u>Required (Photos)</u>
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

Antenna Information

Section 1. Antenna Assembly Specifications

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
LTE	1	1920	1980	Ant5 : DC330036E30 MDA-S6G1-02-008	INPAQ	PIFA	1.8
LTE	2	1850	1910				0.0
LTE	3	1710	1785				-0.6
LTE	4	1710	1755				-0.6
LTE	5	824	849				1.4
LTE	7	2500	2570				1.2
LTE	8	880	915				1.3
LTE	12	699	716				1.7
LTE	13	777	787				1.1
LTE	14	788	798				-0.2
LTE	17	704	716				-0.2
LTE	18	815	830				1.4
LTE	19	830	845				1.4
LTE	20	832	862				0.9
LTE	25	1850	1915				1.2
LTE	26	814	849				1.4
LTE	28	703	748				-0.1
LTE	30	2305	2315				0.6
LTE	34	2010	2025				0.8
LTE	38	2570	2620				0.1
LTE	39	1880	1920				-0.4
LTE	40	2300	2400				-0.2
LTE	41	2496	2690				1.5
LTE	42	3400	3600				1.4
LTE	43	3600	3800				0.6
LTE	48	3550	3700				0.6
LTE	66	1710	1780				-0.6
LTE	70	1695	1710				-0.6
LTE	71	663	698				1.4
LTE	106	896	901				0.79
5G NR FR1	1	1920	1980				0.8
5G NR FR1	2	1850	1910				0.3
5G NR FR1	3	1710	1785				-0.6
5G NR FR1	5	824	849				0.9
5G NR FR1	7	2500	2570				1.2
5G NR FR1	8	880	915				1.3
5G NR FR1	12	699	716				1.7
5G NR FR1	13	777	787				1.1
5G NR FR1	14	788	798				-0.2
5G NR FR1	18	815	830				1.4
5G NR FR1	20	832	862				0.9

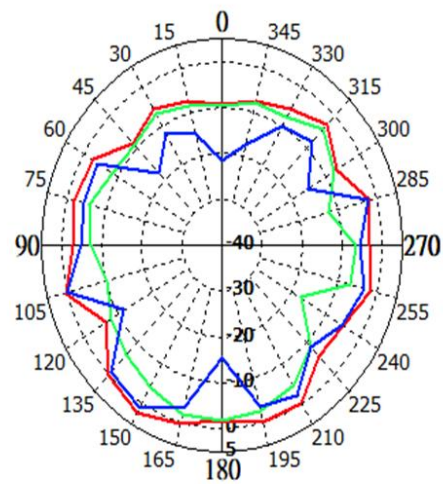
5G NR FR1	25	1850	1915				1.2
5G NR FR1	26	814	849				1.4
5G NR FR1	28	703	748				-0.1
5G NR FR1	30	2305	2315				0.6
5G NR FR1	38	2570	2620				0.1
5G NR FR1	40	2300	2400				-0.2
5G NR FR1	41	2496	2690				1.5
5G NR FR1	48	3550	3700				0.6
5G NR FR1	66	1710	1780				-0.6
5G NR FR1	70	1695	1710				-0.6
5G NR FR1	71	663	698				1.4
5G NR FR1	77	3300	4200				1.6
5G NR FR1	78	3300	3800				1.6

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
5G NR FR1	41	2496	2690	Ant6: DC330036E40 WA-P-S6G1-02-049	INPAQ	PIFA	0.1
5G NR FR1	48	3550	3700				-0.8
5G NR FR1	77	3300	4200				-0.4
5G NR FR1	78	3300	3800				-0.8

- The listed frequency 2D radiation pattern is required

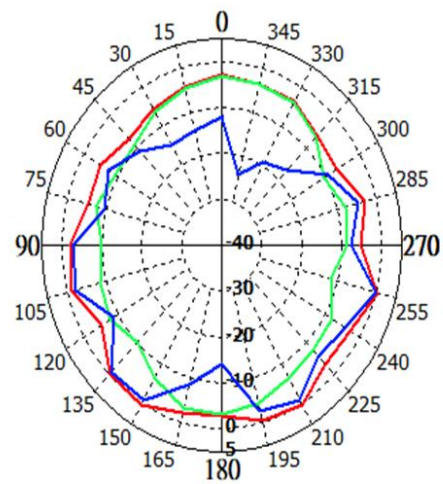
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— V_POL



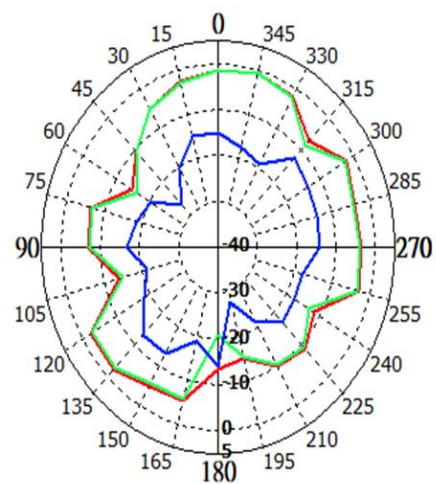
Center Frequency	1920MHz
Horizontal (dBi) peak	1.8
Vertical (dBi) peak	-3.81

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— H_POL
— V_POL



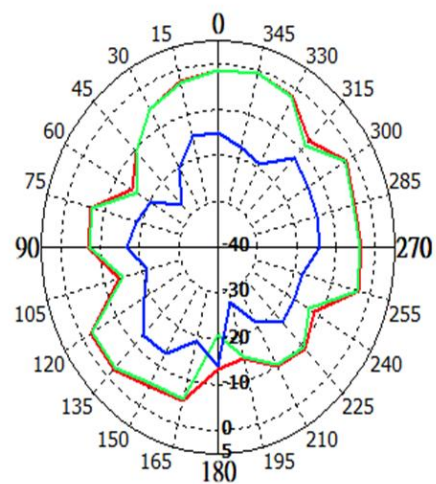
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Horizontal (dBi) peak	0.0
Vertical (dBi) peak	-3.42

— TOTAL
— H_POL
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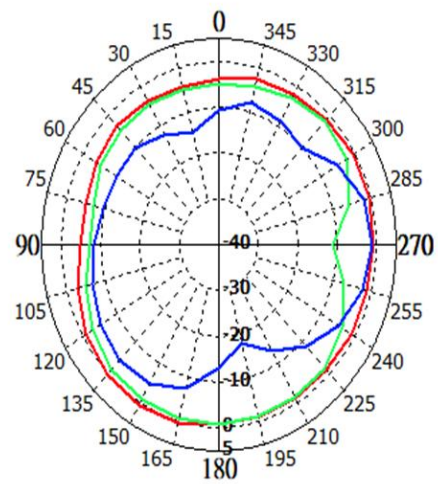
Center Frequency	1715MHz
Horizontal (dBi) peak	-0.6
Vertical (dBi) peak	-2.16

— TOTAL
— H_POL
— V_POL



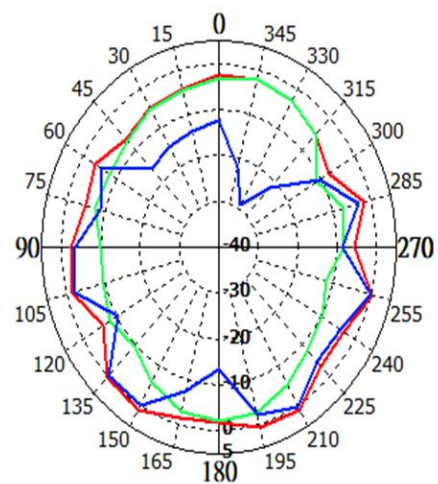
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Horizontal (dBi) peak	-0.6
Vertical (dBi) peak	-2.16

— TOTAL
— H_POL
— V_POL



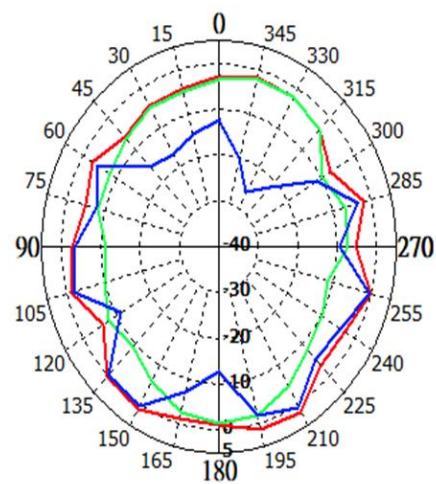
Center Frequency	830MHz
Horizontal (dBi) peak	1.4
Vertical (dBi) peak	-0.9

— TOTAL
— H_POL
— V_POL



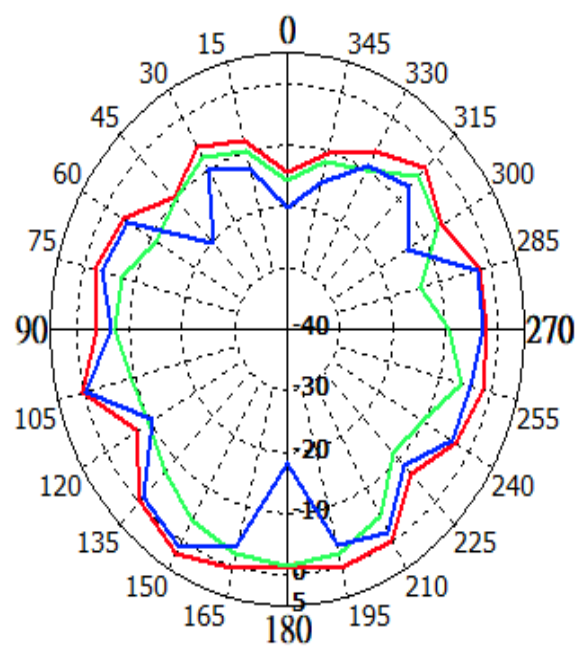
Center Frequency	2550MHz
Horizontal (dBi) peak	1.2
Vertical (dBi) peak	1.1

— TOTAL
— H_POL
— V_POL



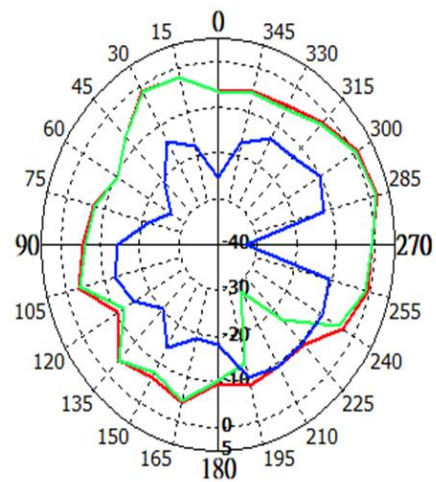
Center Frequency	880MHz
Horizontal (dBi) peak	1.3
Vertical (dBi) peak	-1.6

— TOTAL
— H_POL
— V_POL



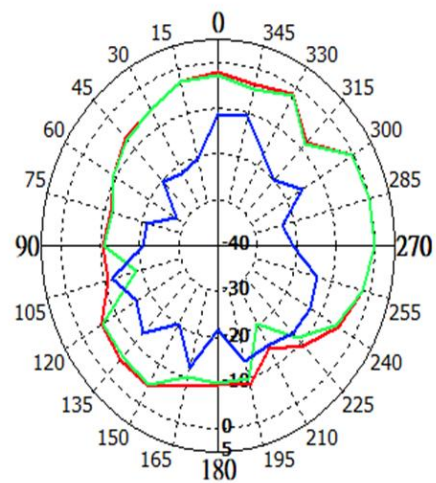
Center Frequency	699MHz
Horizontal (dBi) peak	1.7
Vertical (dBi) peak	0.3

— TOTAL
— H_POL
— V_POL



Center Frequency	777MHz
Horizontal (dBi) peak	1.1
Vertical (dBi) peak	-0.5

— TOTAL
— H_POL
— V_POL

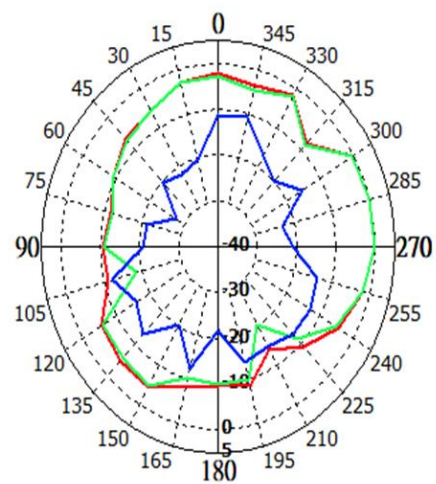


Center Frequency	788MHz
Horizontal (dBi) peak	-0.2
Vertical (dBi) peak	-1.61

— TOTAL

— H_POL

— V_POL

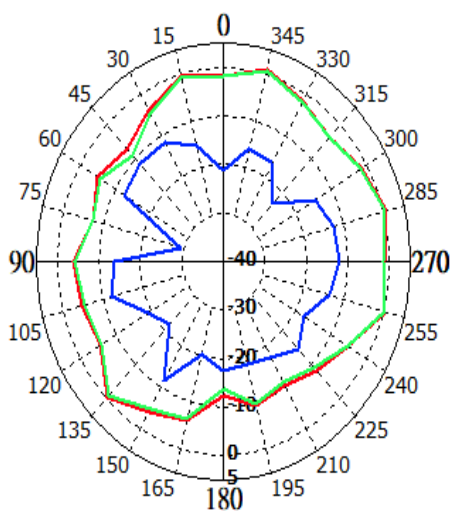


Center Frequency	710MHz
Horizontal (dBi) peak	-0.2
Vertical (dBi) peak	-1.04

— TOTAL

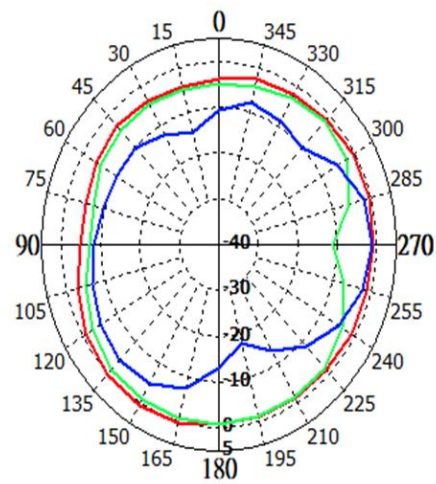
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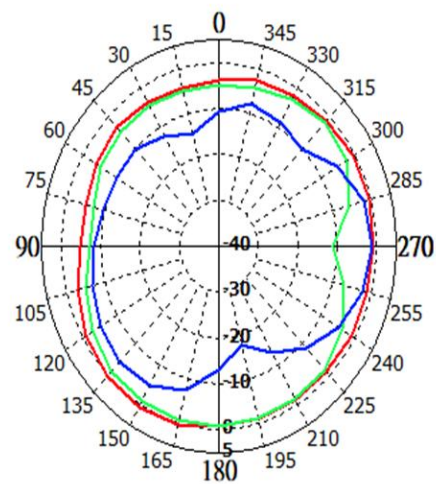
Center Frequency	900MHz
Horizontal (dBi) peak	0.79
Vertical (dBi) peak	-0.14

— TOTAL
— H_POL
— V_POL



Center Frequency	830MHz
Horizontal (dBi) peak	1.4
Vertical (dBi) peak	-0.9

— TOTAL
— H_POL
— V_POL

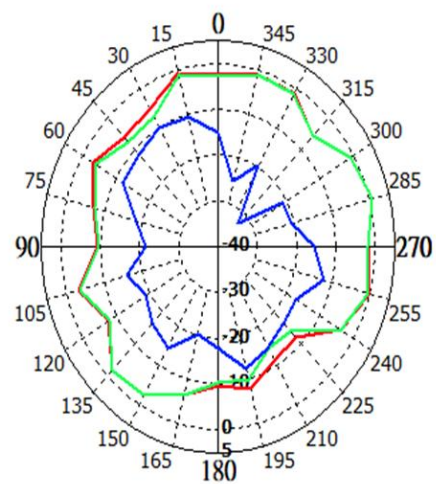


Center Frequency	830MHz
Horizontal (dBi) peak	1.4
Vertical (dBi) peak	-0.9

— TOTAL

— H_POL

— V_POL

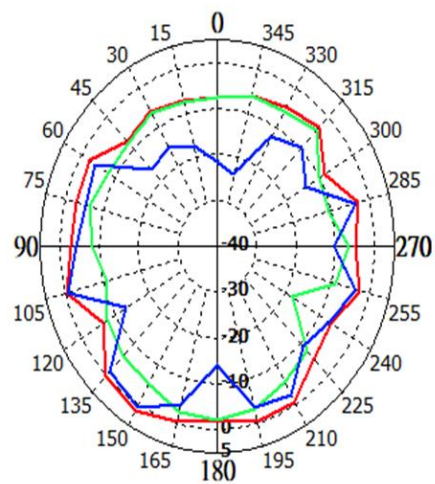


Center Frequency	862MHz
Horizontal (dBi) peak	0.9
Vertical (dBi) peak	-0.72

— TOTAL

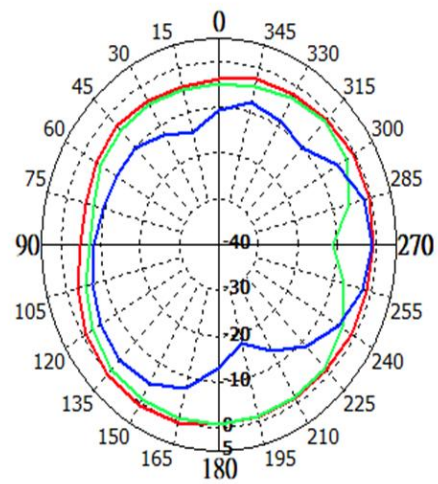
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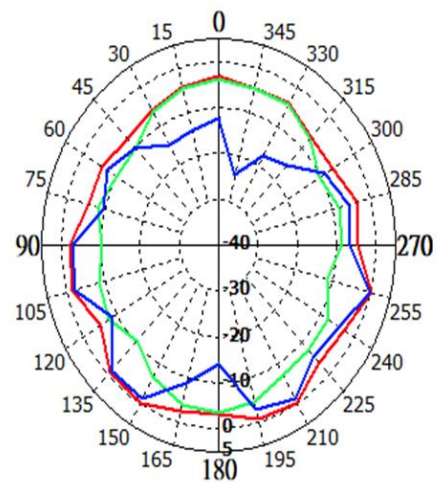
Center Frequency	1850MHz
Horizontal (dBi) peak	1.2
Vertical (dBi) peak	-0.89

— TOTAL
— H_POL
— V_POL



Center Frequency	830MHz
Horizontal (dBi) peak	1.4
Vertical (dBi) peak	-0.9

— TOTAL
— H_POL
— V_POL

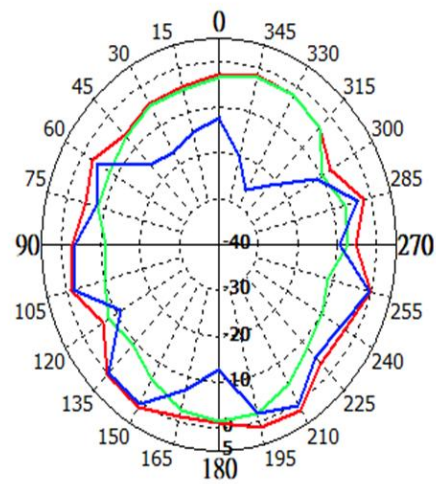


Center Frequency	730MHz
Horizontal (dBi) peak	-0.1
Vertical (dBi) peak	-0.19

— TOTAL

— H_POL

— V_POL

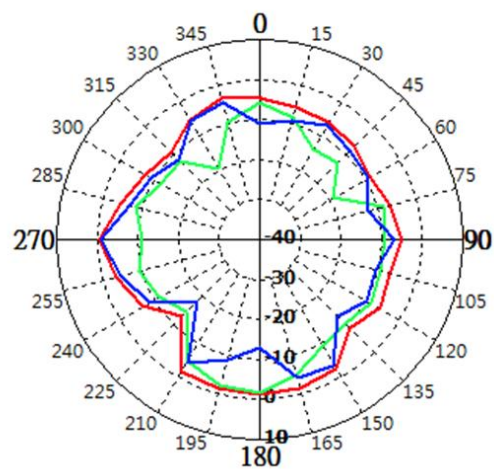


Center Frequency	2305MHz
Horizontal (dBi) peak	0.6
Vertical (dBi) peak	-1,19

— TOTAL

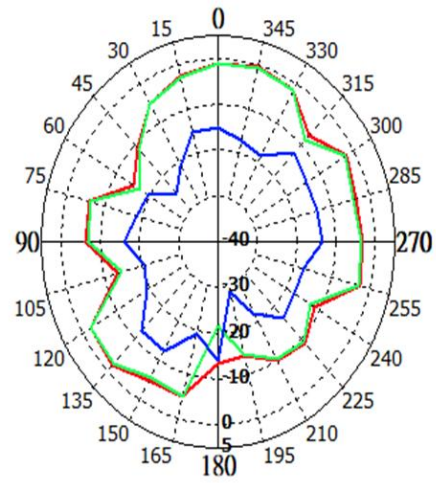
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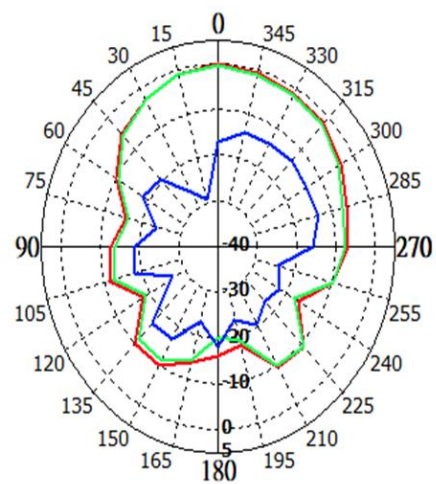
Center Frequency	2570MHz
Horizontal (dBi) peak	0.8
Vertical (dBi) peak	0.43

— TOTAL
— H_POL
— V_POL



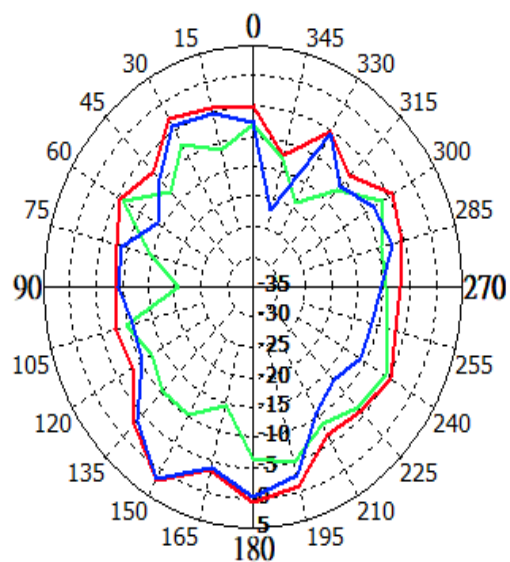
Center Frequency	1900MHz
Horizontal (dBi) peak	-0.1
Vertical (dBi) peak	-0.96

— TOTAL
— H_POL
— V_POL



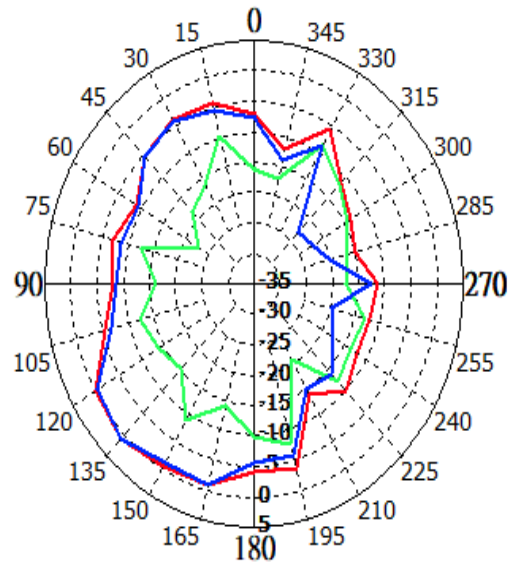
Center Frequency	2300MHz
Horizontal (dBi) peak	-0.4
Vertical (dBi) peak	-1.65

— TOTAL
— H_POL
— V_POL



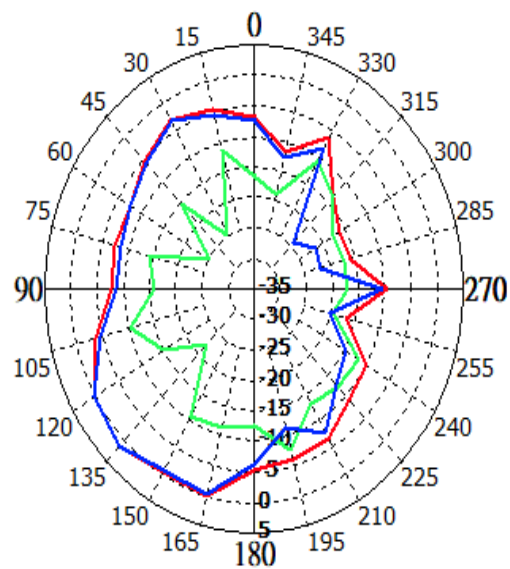
Center Frequency	2690MHz
Horizontal (dBi) peak	1.7
Vertical (dBi) peak	-2.99

— TOTAL
— H_POL
— V_POL



Center Frequency	3400MHz
Horizontal (dBi) peak	0.7
Vertical (dBi) peak	-2.92

— TOTAL
— H_POL
— V_POL

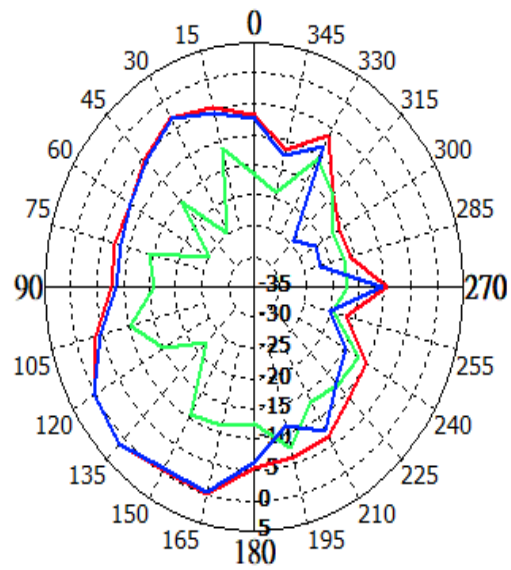


Center Frequency	3700MHz
Horizontal (dBi) peak	0.6
Vertical (dBi) peak	-2.71

— TOTAL

— H_POL

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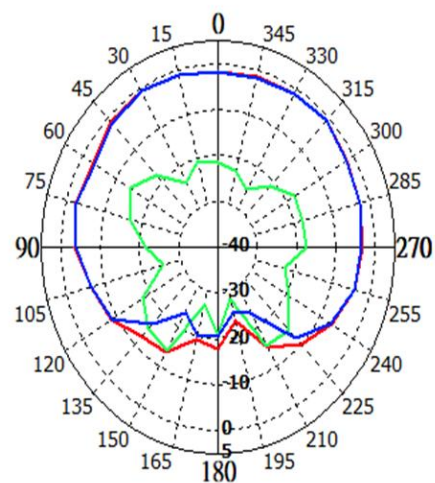


Center Frequency	3700MHz
Horizontal (dBi) peak	0.6
Vertical (dBi) peak	-2.71

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— H_POL

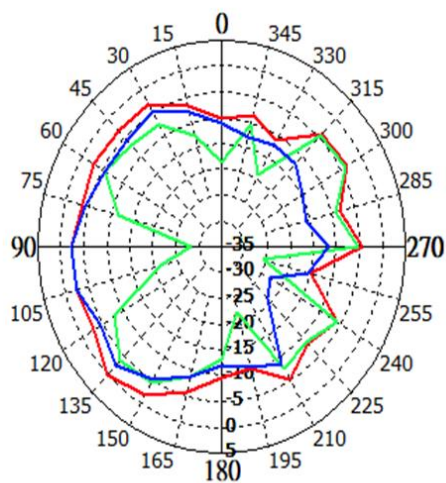
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Center Frequency	1715MHz
Horizontal (dBi) peak	-0.6
Vertical (dBi) peak	-1.16

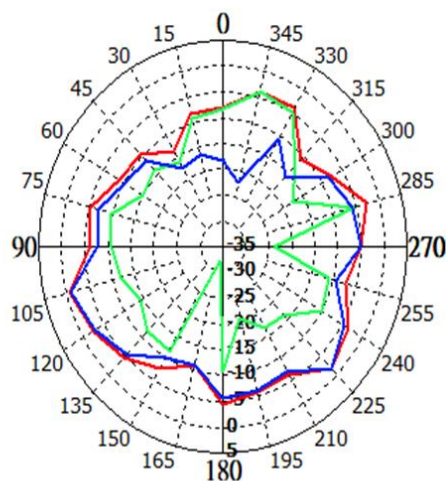
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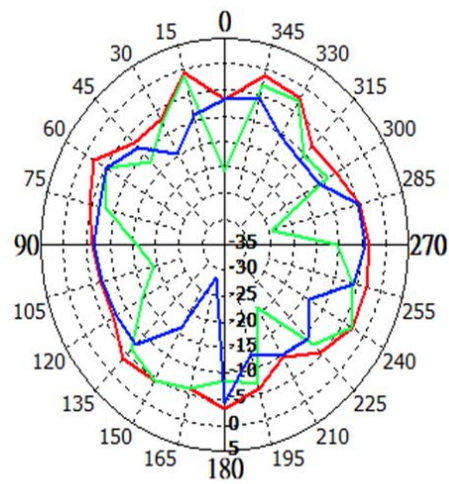
Center Frequency	2595MHz
Horizontal (dBi) peak	-0.1
Vertical (dBi) peak	-3.7

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— V_POL



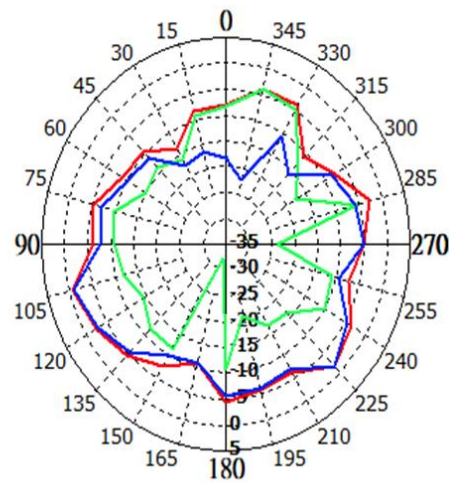
Center Frequency	3700MHz
Horizontal (dBi) peak	-1.0
Vertical (dBi) peak	-2.17

— TOTAL
— H_POL
— V_POL



Center Frequency	3700MHz
Horizontal (dBi) peak	-0.6
Vertical (dBi) peak	-1.16

— TOTAL
— H_POL
— V_POL



Center Frequency	3700MHz
Horizontal (dBi) peak	-1.0
Vertical (dBi) peak	-2.17

Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Azerbaijan						
Cambodia						
Indonesia						
Israel						
Malaysia						
Philippines						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						
Vietnam						