

Regulatory WWAN Antenna Information

Platform information						
Brand	ODM	Platform model name		Platform type (ex: regular NB, convertible PC, AIO...etc)		*SAR minimum separation (mm)
HP	Inventec	HSN-I66C-4		Regular NB		1.5
Antenna information						Maximum Peak gain
Vendor	Type	Antenna Part number (Ant5 TX/RX)	Antenna Part number (Ant6 RX)	Antenna Part number (Ant7 RX)	Antenna Part number (Ant8 TX/RX)	3300MHz (Choice TX high peak gain)
HB	PIFA	6036B0383901 (260-27594)	6036B0383701 (260-27596)	6036B0383801 (260-27595)	6036B0383701 (260-27596)	2.95 dBi
Module information						
Model	Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....)					
Spey	Foxconn SDX72 M.2 WWAN 4x4 radio module					

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. (S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	Required (Photos)	Required (Photos)
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

Test location: 4F, No. 143, Xinhua 1st Road, Neihs District, Taipei City

Testing date: 2025/8/29

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2025/01/07	2026/01/06
Measurement software	ETS-Lindgren	EMQuest	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	N/A	N/A
MAPSTM controller	ETS-Lindgren	EMCO 2090	N/A	N/A
Horn antenna	ETS-Lindgren	3164-10	2025/03/03	2026/03/03
ETS OTA Chamber	ETS-Lindgren	AMS-8500	2025/03/03	2026/03/03
Cable	ETS-Lindgren	RFC SMS-100-NMR Series	N/A	N/A

Note: Chamber calibration included full set of implement

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
WCDMA/ LTE	1	1920	1980	Ant5 : 6036B0383901(260-27594)	Hongbo	PIFA	-0.98
WCDMA/ LTE	2	1850	1910				0.15
LTE	3	1710	1785				-0.49
WCDMA/ LTE	4	1710	1755				-0.49
WCDMA/ LTE	5	824	849				-1.86
LTE	7	2500	2570				-1.47
WCDMA/ LTE	8	880	915				-2.34
LTE	12	699	716				0.26
LTE	13	777	787				-0.13
LTE	14	788	798				-0.93
LTE	17	704	716				0.26
LTE	18	815	830				-1.47
LTE	19	830	845				-2.12
LTE	20	832	862				-2.18
LTE	25	1850	1915				0.15
LTE	26	814	849				-1.47
LTE	28	703	748				0.46
LTE	30	2305	2315				-1.87
LTE	34	2010	2025				-2.28
LTE	38	2570	2620				-2.34
LTE	39	1880	1920				-0.28
LTE	40	2300	2400				-2.83
LTE	41	2496	2690				0.39
LTE	42	3400	3600				-1.18
LTE	43	3600	3800				-0.37
LTE	48	3550	3700				0.94
LTE	66	1710	1780				-0.49
LTE	67	/	/				
LTE	68	/	/				
LTE	70	1695	1710				-2.02
LTE	71	663	698				0.09
5G NR FR1	1	1920	1980				-0.98
5G NR FR1	2	1850	1910				0.15
5G NR FR1	3	1710	1785				-0.49
5G NR FR1	5	824	849				-1.86
5G NR FR1	7	2500	2570				-1.47
5G NR FR1	8	880	914				-2.34
5G NR FR1	12	699	716				0.26
5G NR FR1	13	746	756				-0.13
5G NR FR1	14	788	798				-0.93
5G NR FR1	18	815	830				-1.47

5G NR FR1	20	832	862				-2.18
5G NR FR1	25	1850	1915				0.15
5G NR FR1	26	814	849				-1.47
5G NR FR1	28	703	748				0.46
5G NR FR1	30	2305	2315				-1.87
5G NR FR1	38	2570	2620				-2.34
5G NR FR1	40	2300	2400				-2.83
5G NR FR1	41	2496	2690				0.39
5G NR FR1	48	3550	3700				0.94
5G NR FR1	66	1710	1780				-0.49
5G NR FR1	70	1695	1710				-2.02
5G NR FR1	71	663	698				0.09
5G NR FR1	77	3300	4200				2.95
5G NR FR1	78	3300	3800				2.95
5G NR FR1	79	4400	5000				1.8
5G NR FR1	91	832	862				-2.18
5G NR FR1	92	832	862				-2.18
5G NR FR1	93	880	915				-2.34
5G NR FR1	94	880	915				-2.34

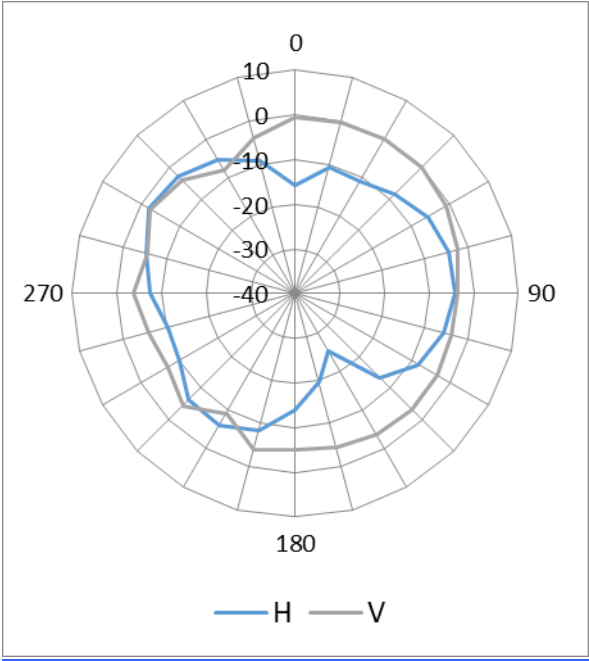
Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D Tx Antenna Gain (dBi) Ant5
WCDMA/ LTE	1	1920	1980	Ant8 : 6036B0383701 (260-27596)	Hongbo	PIFA	-2.40
WCDMA/ LTE	2	1850	1910				-2.21
LTE	3	1710	1785				-2.67
WCDMA/ LTE	4	1710	1755				-2.67
WCDMA/ LTE	5	824	849				
LTE	7	2500	2570				-3.98
WCDMA/ LTE	8	880	915				
LTE	12	699	716				
LTE	13	777	787				
LTE	14	788	798				
LTE	17	704	716				
LTE	18	815	830				
LTE	19	830	845				
LTE	20	832	862				
LTE	25	1850	1915				-2.21
LTE	26	814	849				
LTE	28	703	748				
LTE	30	2305	2315				-5.28
LTE	34	2010	2025				-4.21
LTE	38	2570	2620				-3.24
LTE	39	1880	1920				-2.21
LTE	40	2300	2400				-2.58
LTE	41	2496	2690				-2.93
LTE	42	3400	3600				-3.75

LTE	43	3600	3800				-3.24
LTE	48	3550	3700				-3.8
LTE	66	1710	1780				-2.67
LTE	67	/	/				
LTE	68	/	/				
LTE	70	1695	1710				
LTE	71	663	698				
5G NR FR1	1	1920	1980				-2.40
5G NR FR1	2	1850	1910				-2.21
5G NR FR1	3	1710	1785				-2.67
5G NR FR1	5	824	849				
5G NR FR1	7	2500	2570				-3.98
5G NR FR1	8	880	914				
5G NR FR1	12	699	716				
5G NR FR1	13	746	756				
5G NR FR1	14	788	798				
5G NR FR1	18	815	830				
5G NR FR1	20	832	862				
5G NR FR1	25	1850	1915				-2.21
5G NR FR1	26	814	849				
5G NR FR1	28	703	748				
5G NR FR1	30	2305	2315				-5.28
5G NR FR1	38	2570	2620				-3.24
5G NR FR1	40	2300	2400				-2.58
5G NR FR1	41	2496	2690				-2.93
5G NR FR1	48	3550	3700				-3.8
5G NR FR1	66	1710	1780				-2.67
5G NR FR1	70	1695	1710				
5G NR FR1	71	663	698				
5G NR FR1	77	3300	4200				-2.56
5G NR FR1	78	3300	3800				-2.56
5G NR FR1	79	4400	5000				-3.27
5G NR FR1	91	832	862				
5G NR FR1	92	832	862				
5G NR FR1	93	880	915				
5G NR FR1	94	880	915				

Antenna Peak Gain required being test in system basis.

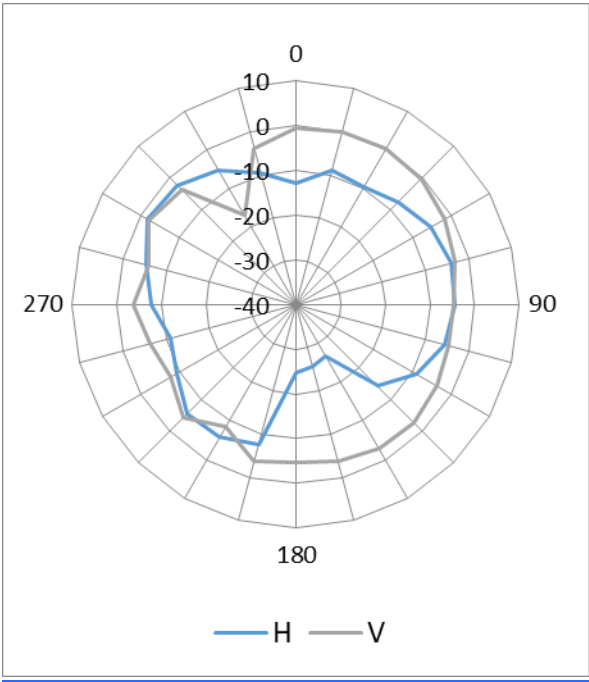
The listed frequency 2D radiation pattern is required

● [Ant5:](#)
[698MHz](#)



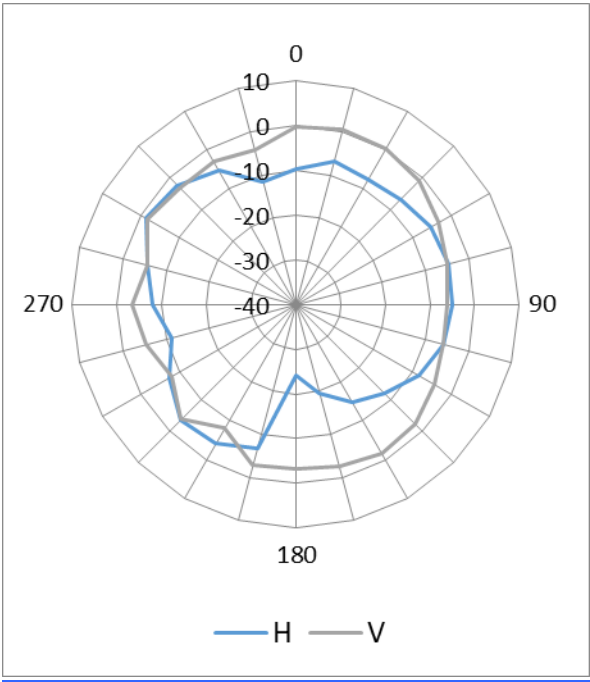
Center Frequency	698MHz
Horizontal (dBi) peak	-2.09
Vertical (dBi) peak	0.09

[716MHz](#)



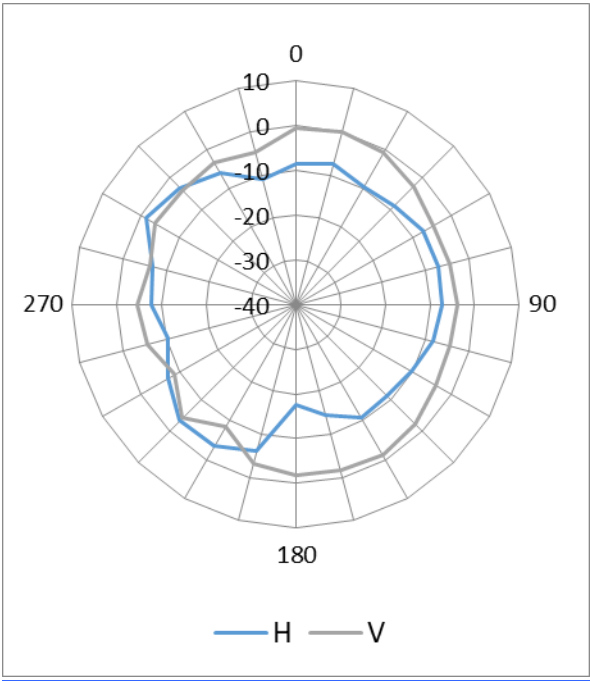
Center Frequency	716MHz
Horizontal (dBi) peak	-1.81
Vertical (dBi) peak	0.26

748MHz



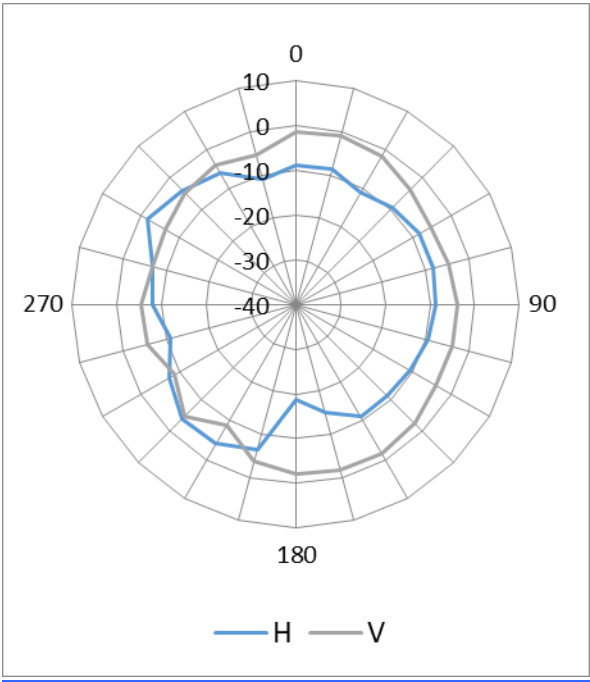
Center Frequency	748MHz
Horizontal (dBi) peak	-1.22
Vertical (dBi) peak	0.46

777MHz



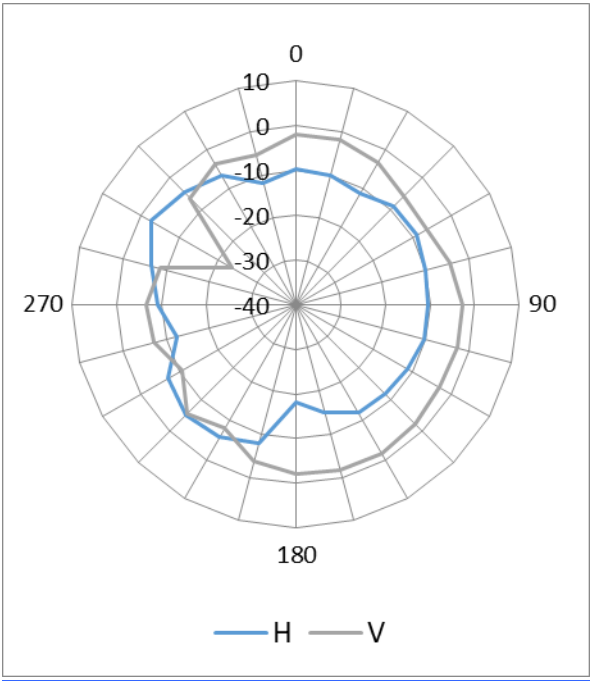
Center Frequency	777MHz
Horizontal (dBi) peak	-1.41
Vertical (dBi) peak	-0.13

798MHz



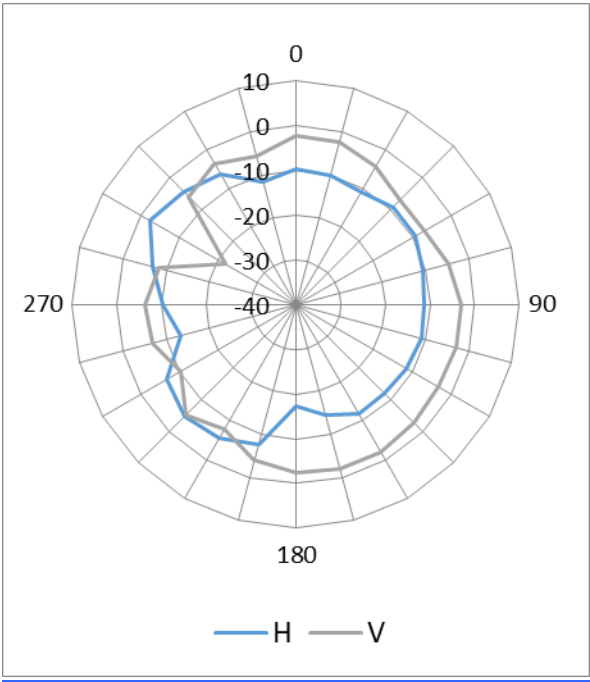
Center Frequency	798MHz
Horizontal (dBi) peak	-1.8
Vertical (dBi) peak	-0.93

814MHz



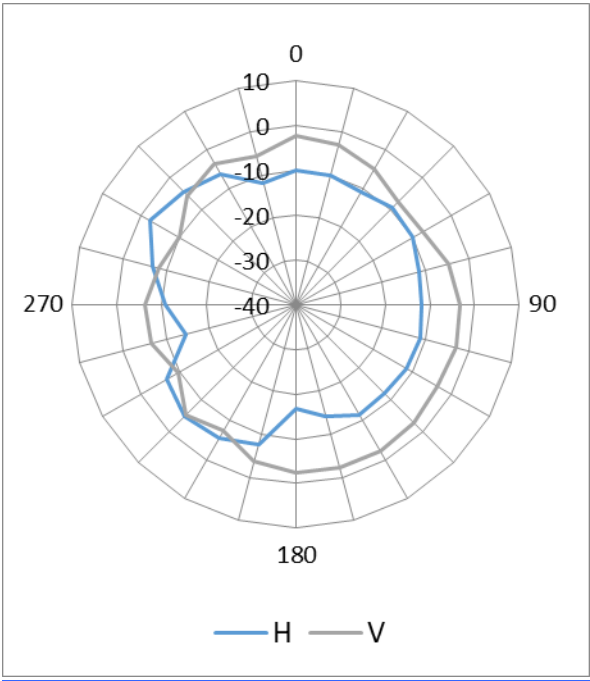
Center Frequency	814MHz
Horizontal (dBi) peak	-2.52
Vertical (dBi) peak	-1.47

824MHz



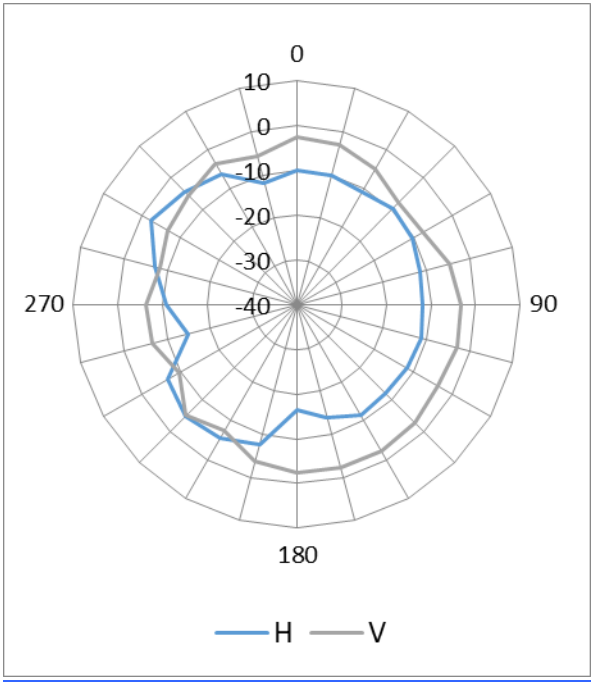
Center Frequency	824MHz
Horizontal (dBi) peak	-2.43
Vertical (dBi) peak	-1.86

845MHz



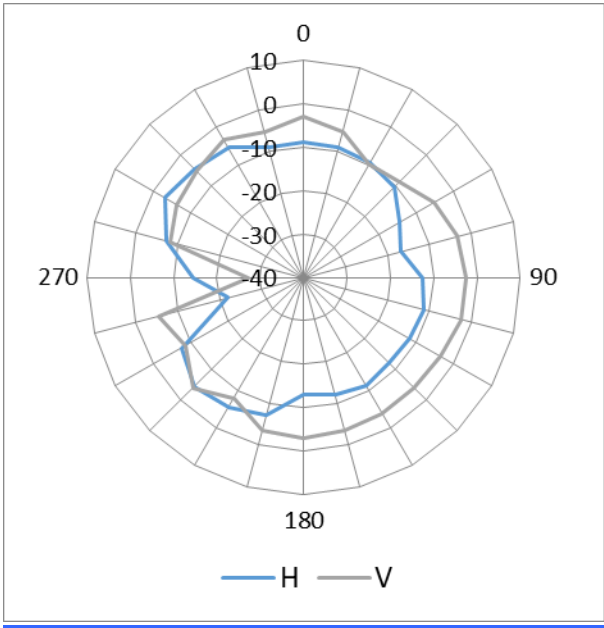
Center Frequency	845MHz
Horizontal (dBi) peak	-2.44
Vertical (dBi) peak	-2.12

862MHz



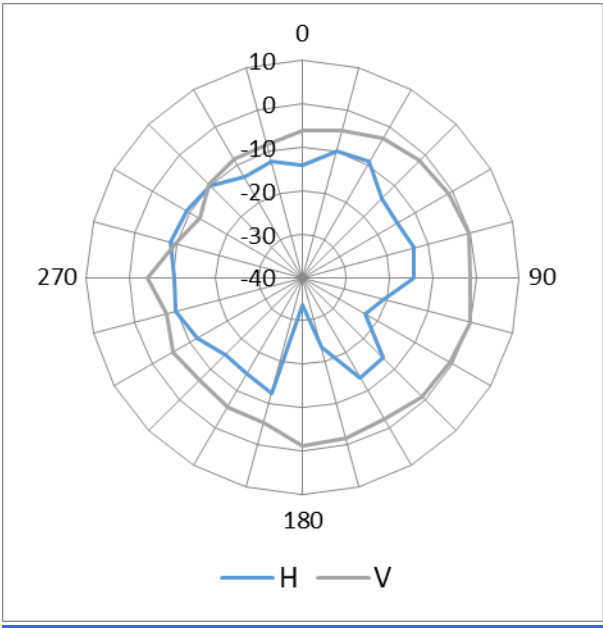
Center Frequency	862MHz
Horizontal (dBi) peak	-2.42
Vertical (dBi) peak	-2.18

915MHz



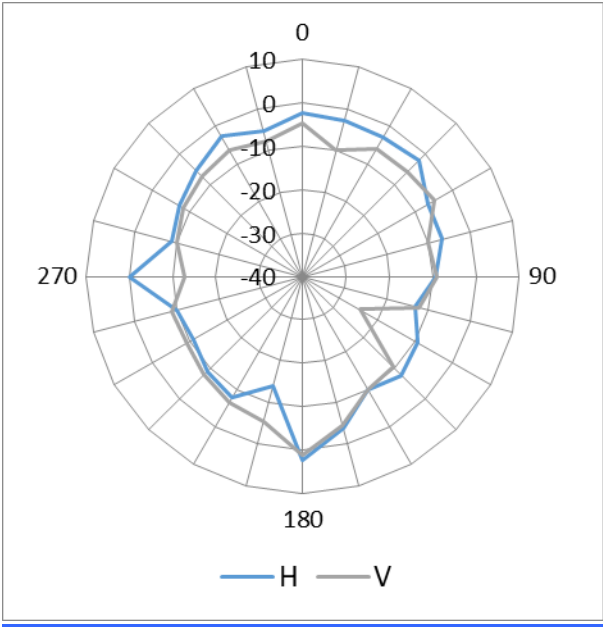
Center Frequency	915MHz
Horizontal (dBi) peak	-3
Vertical (dBi) peak	-2.34

1850MHz



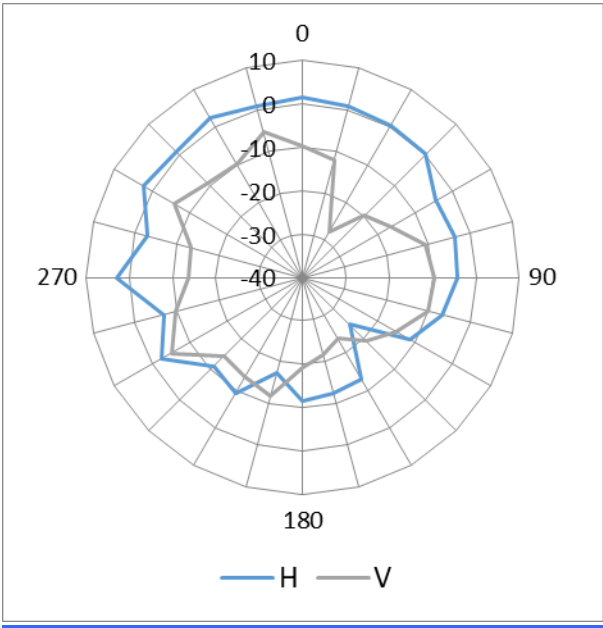
Center Frequency	1850MHz
Horizontal (dBi) peak	-7.56
Vertical (dBi) peak	0.15

2690MHz



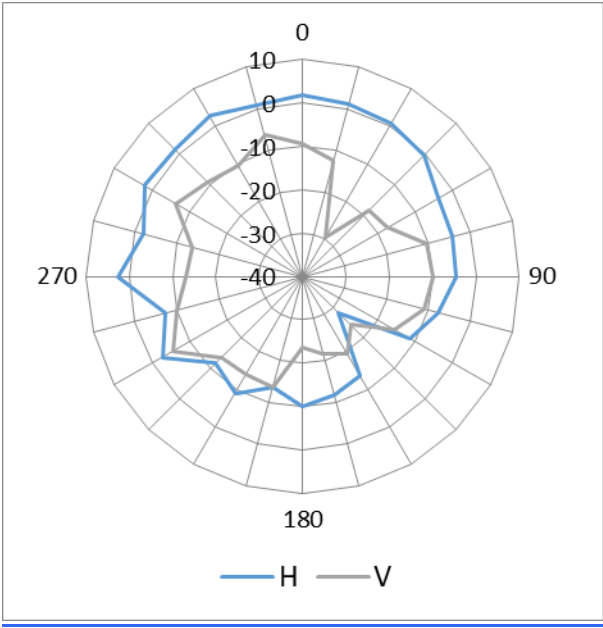
Center Frequency	2690MHz
Horizontal (dBi) peak	0.39
Vertical (dBi) peak	-4.69

3300MHz



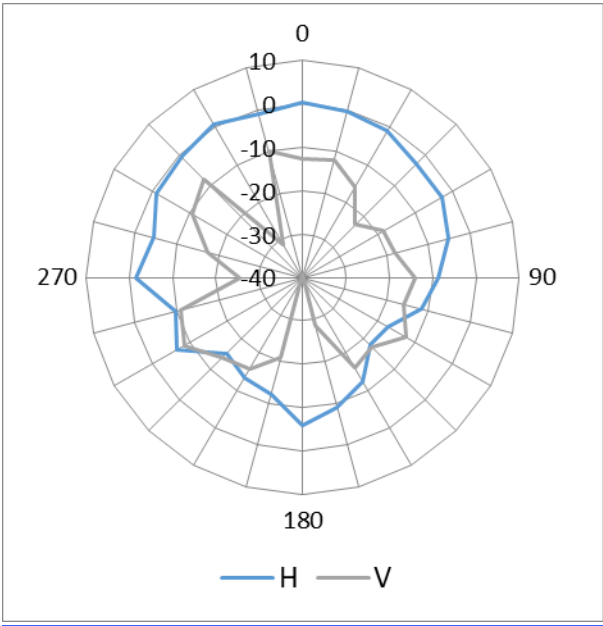
Center Frequency	3300MHz
Horizontal (dBi) peak	2.95
Vertical (dBi) peak	-4.97

3600MHz



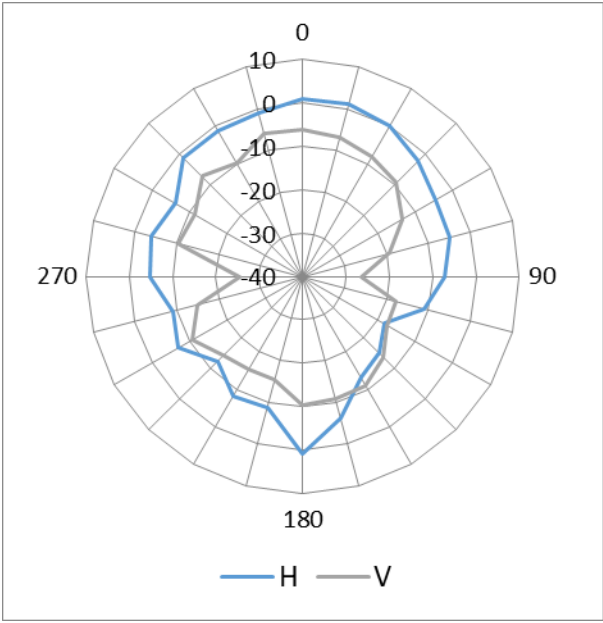
Center Frequency	3600MHz
Horizontal (dBi) peak	2.92
Vertical (dBi) peak	-5.37

3700MHz



Center Frequency	3700MHz
Horizontal (dBi) peak	0.94
Vertical (dBi) peak	-2.47

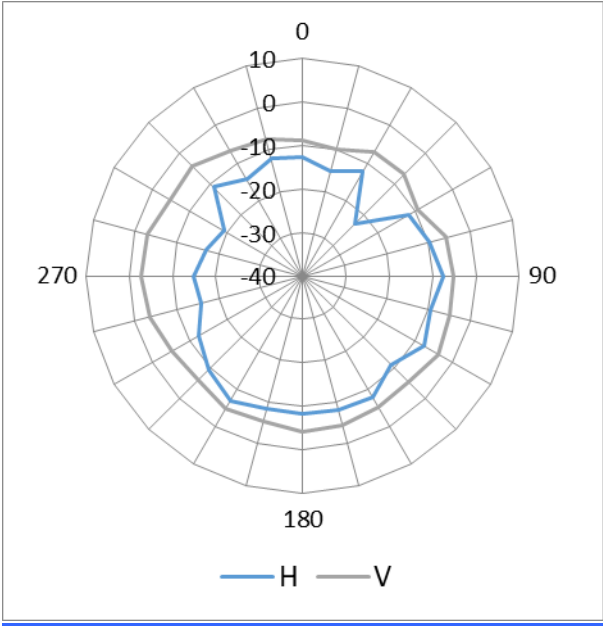
5000MHz



Center Frequency	5000MHz
Horizontal (dBi) peak	1.18
Vertical (dBi) peak	-5.98

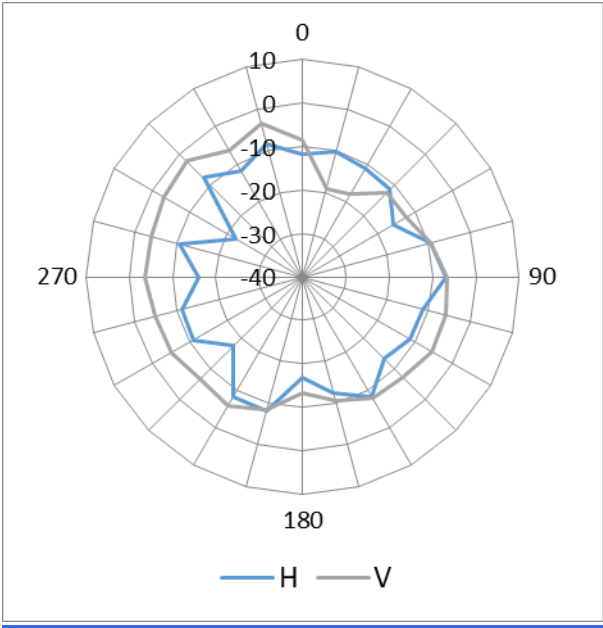
● Ant8:

1710 MHz



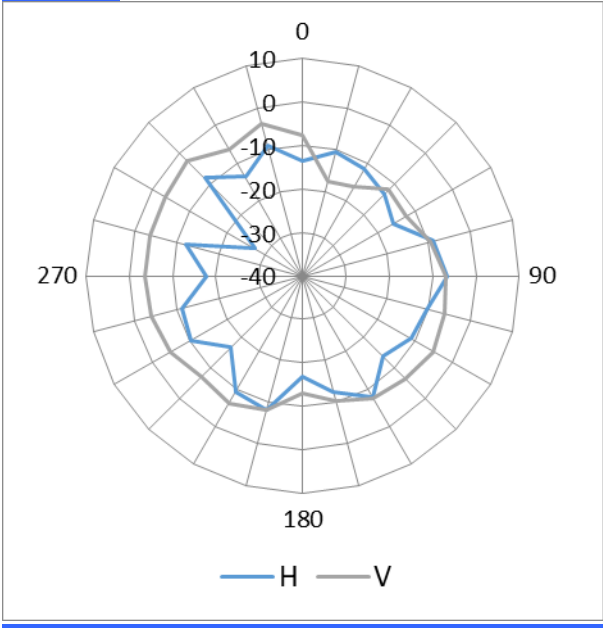
Center Frequency	1710MHz
Horizontal (dBi) peak	-6.78
Vertical (dBi) peak	-2.67

1880 MHz



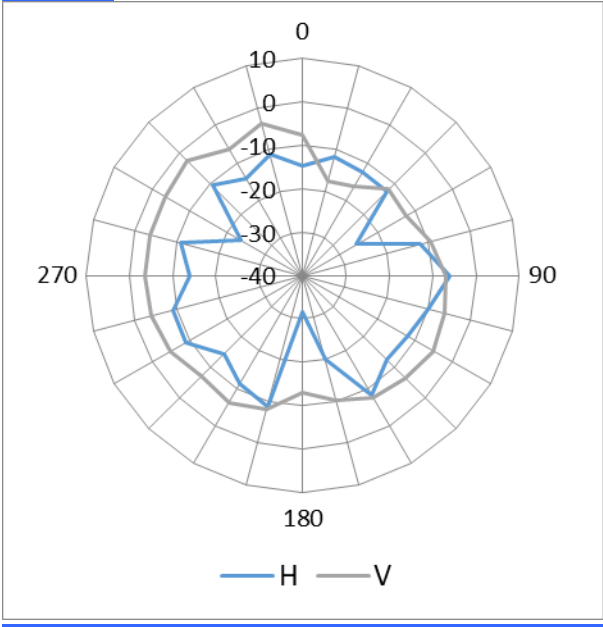
Center Frequency	1880MHz
Horizontal (dBi) peak	-6.25
Vertical (dBi) peak	-2.21

1980 MHz



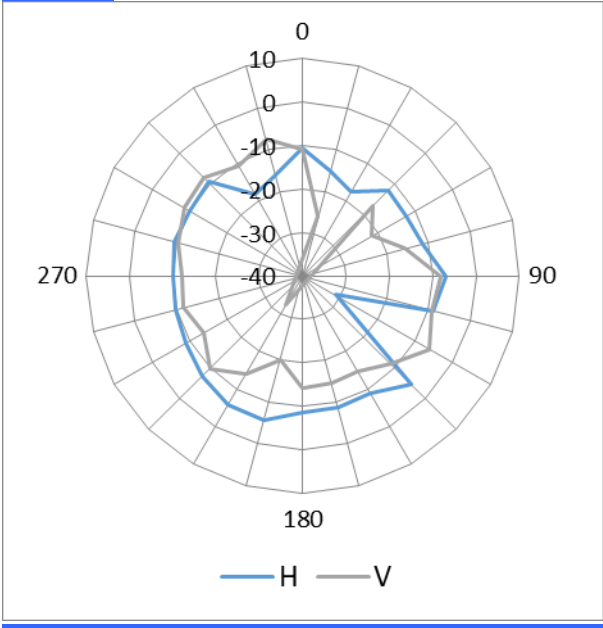
Center Frequency	1980MHz
Horizontal (dBi) peak	-6.51
Vertical (dBi) peak	-2.4

2010MHz



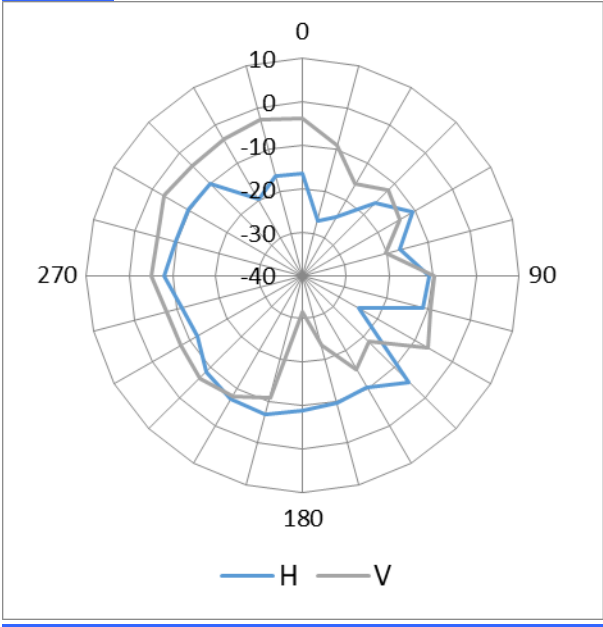
Center Frequency	2010MHz
Horizontal (dBi) peak	-8.85
Vertical (dBi) peak	-4.21

2315MHz



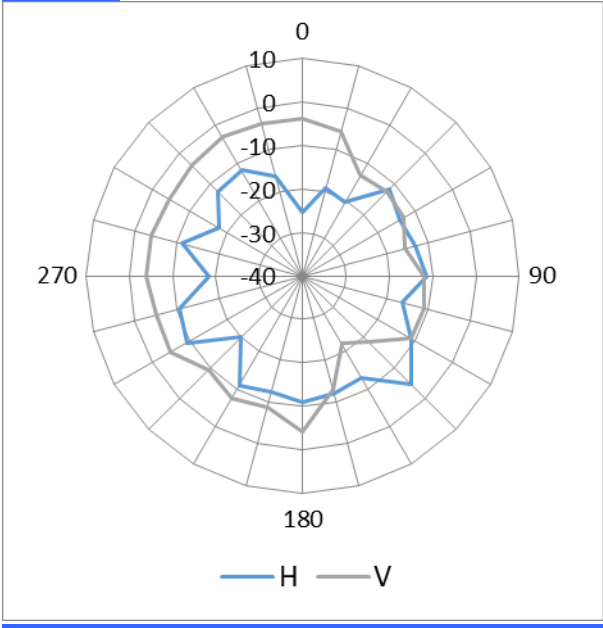
Center Frequency	2315MHz
Horizontal (dBi) peak	-5.74
Vertical (dBi) peak	-5.28

2400MHz



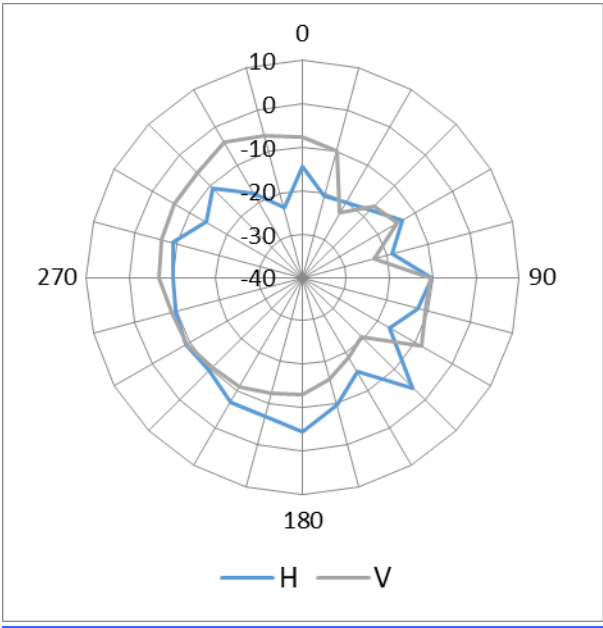
Center Frequency	2400MHz
Horizontal (dBi) peak	-6.64
Vertical (dBi) peak	-2.58

2496 MHz



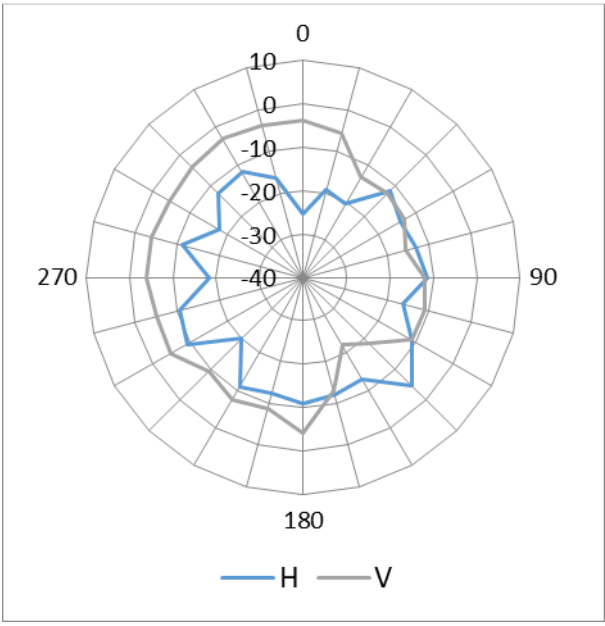
Center Frequency	2496MHz
Horizontal (dBi) peak	-8.92
Vertical (dBi) peak	-2.93

2570 MHz



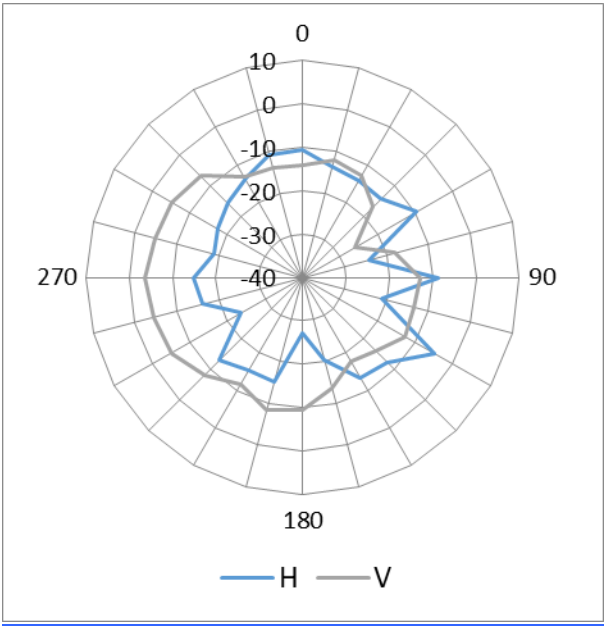
Center Frequency	2570MHz
Horizontal (dBi) peak	-6.79
Vertical (dBi) peak	-3.98

2620 MHz



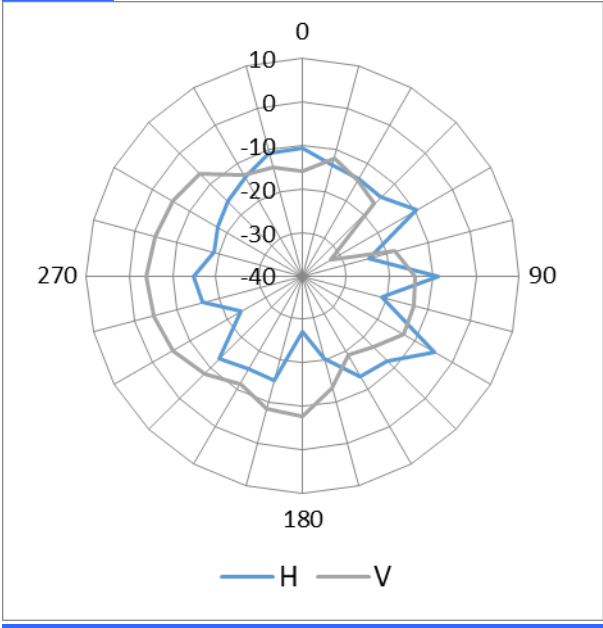
Center Frequency	2620MHz
Horizontal (dBi) peak	-7.47
Vertical (dBi) peak	-3.24

3400 MHz



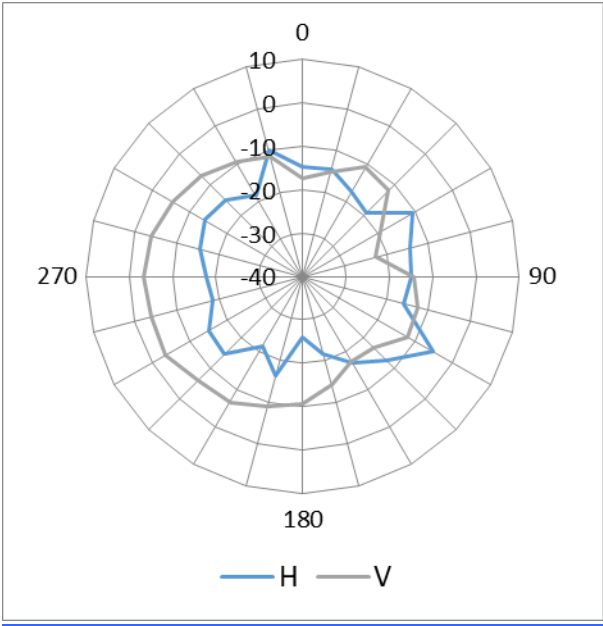
Center Frequency	3400MHz
Horizontal (dBi) peak	-10.61
Vertical (dBi) peak	-3.75

3550MHz



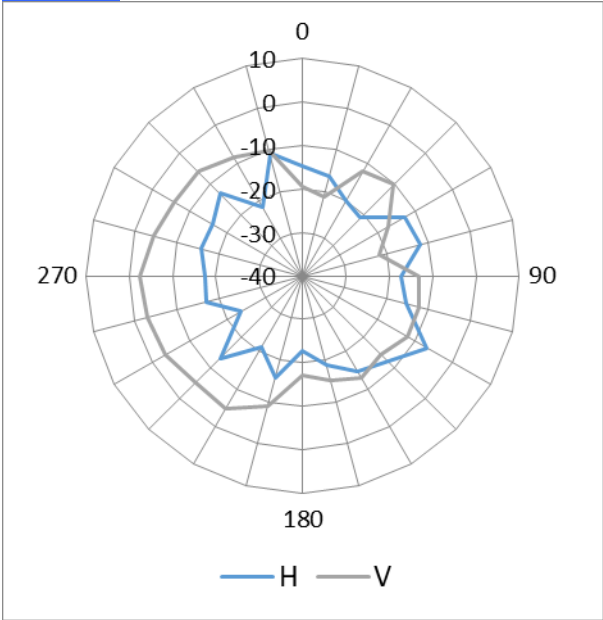
Center Frequency	3550MHz
Horizontal (dBi) peak	-10.45
Vertical (dBi) peak	-3.80

3800MHz



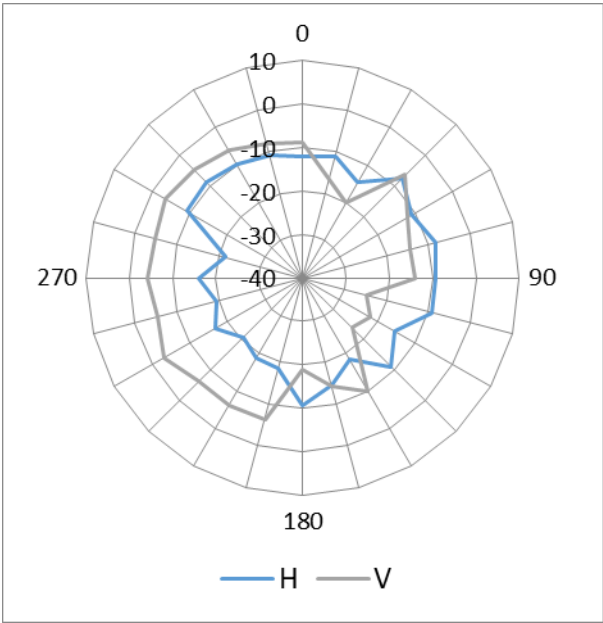
Center Frequency	3800MHz
Horizontal (dBi) peak	-9.49
Vertical (dBi) peak	-3.24

4200 MHz



Center Frequency	4200MHz
Horizontal (dBi) peak	-10.54
Vertical (dBi) peak	-2.56

5000 MHz



Center Frequency	5000MHz
Horizontal (dBi) peak	-8.66
Vertical (dBi) peak	-3.27