

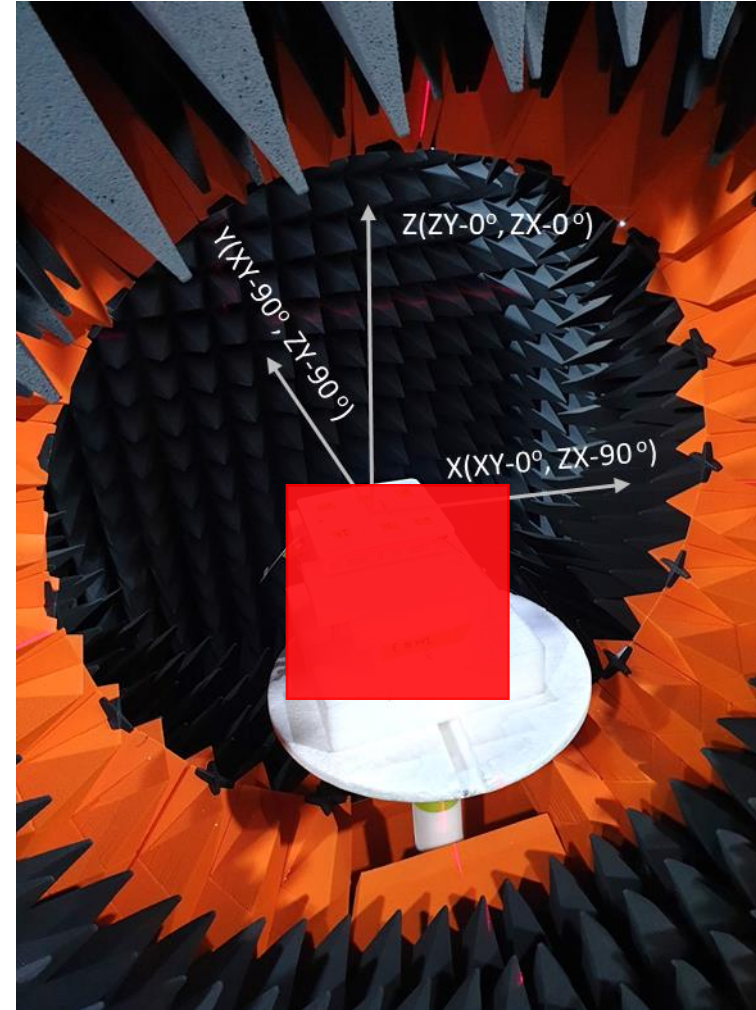
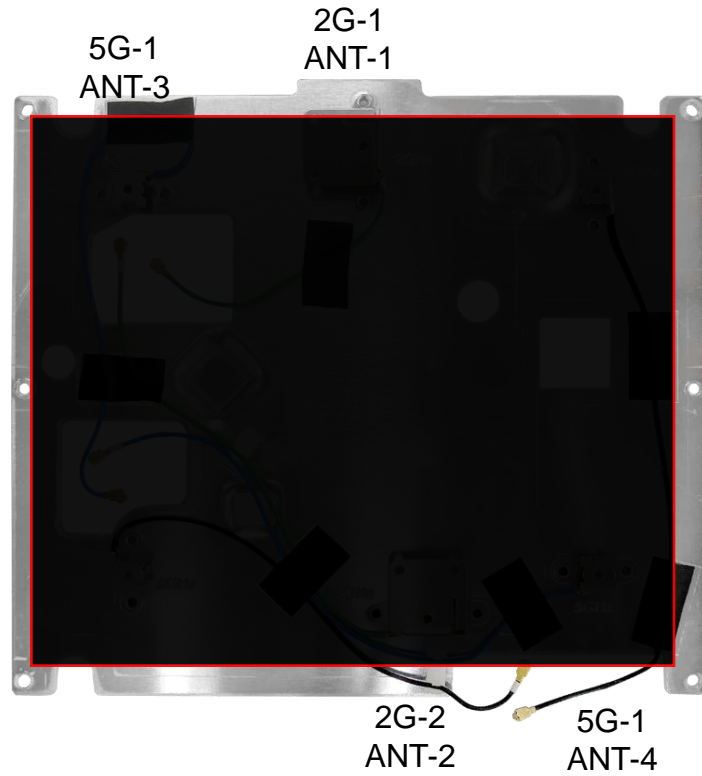
Grand-Tek Technology Co., Ltd.
8F, No.233-2, Bao-Ciao Rd.,Sin-
Dian Dist., New Taipei
City23145, Taiwan, R.O.C.

EW-7489WAX Antenna 2.4G*2 / 5G*2 Updated Test Report

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2. Antenna Specification	p.3
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EW-7489WAX Antenna 2.4G*2 / 5G*2

Antenna type : PIFA



Antenna Spec 2.4G*2 / 5G*2

Antenna type : PIFA

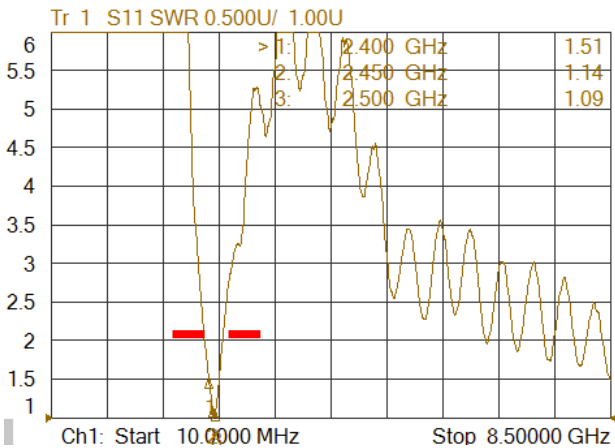


Specification						
Frequency	2G		5G			
Item	ANT-1	ANT-2	ANT-3	ANT-4		
Efficiency	66~70%	71~72%	68~77%	63~73%		
Peak Gain	3.4~4.2 dBi	3.4~3.8 dBi	4.1~5.5 dBi	4.5~4.8 dBi		
VSWR	2.0 max.:1					
Connector	MHF Plug For 1.13 CBL. Gold Plate					
Cable	OD1.13 CBL					
CBL. Color	Green	Green	Blue	Blue		
Impedance	50 Ohms					

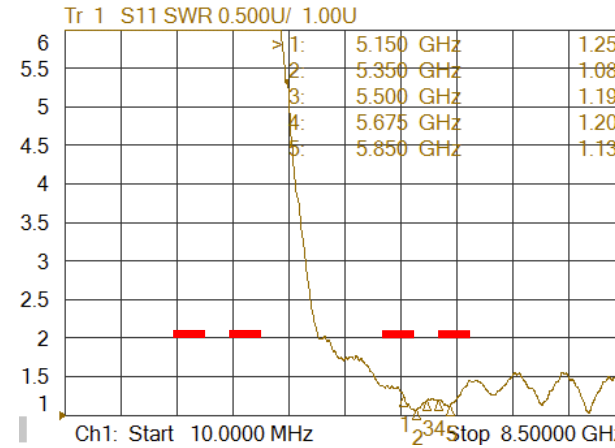
VSWR < 2.0 max.:1



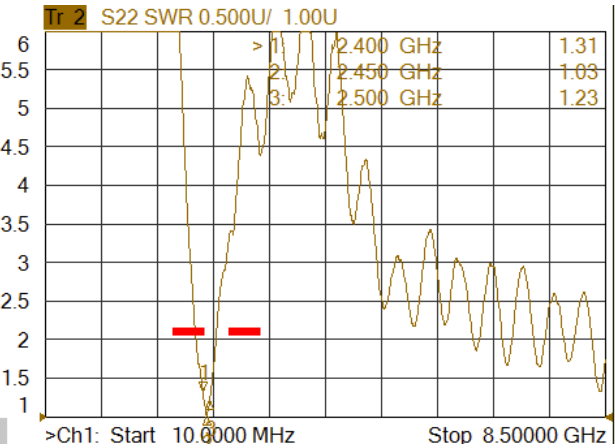
ANT-1



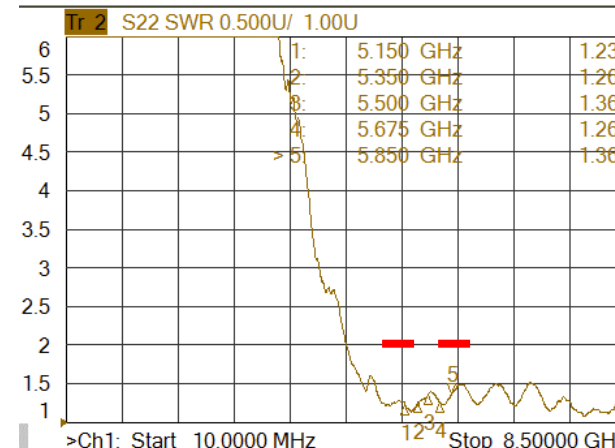
ANT-3



ANT-2



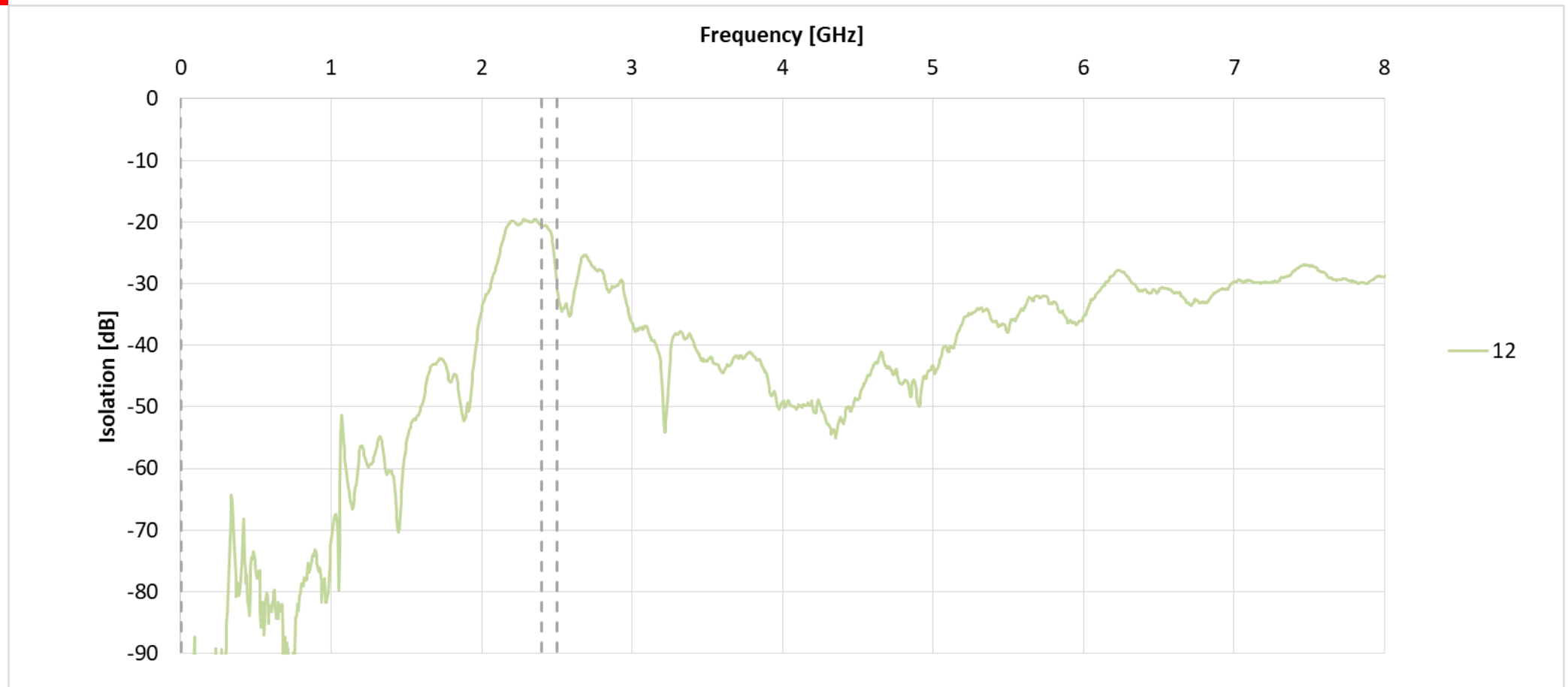
ANT-4



Isolation 2G vs 2G

ANT1 vs 2

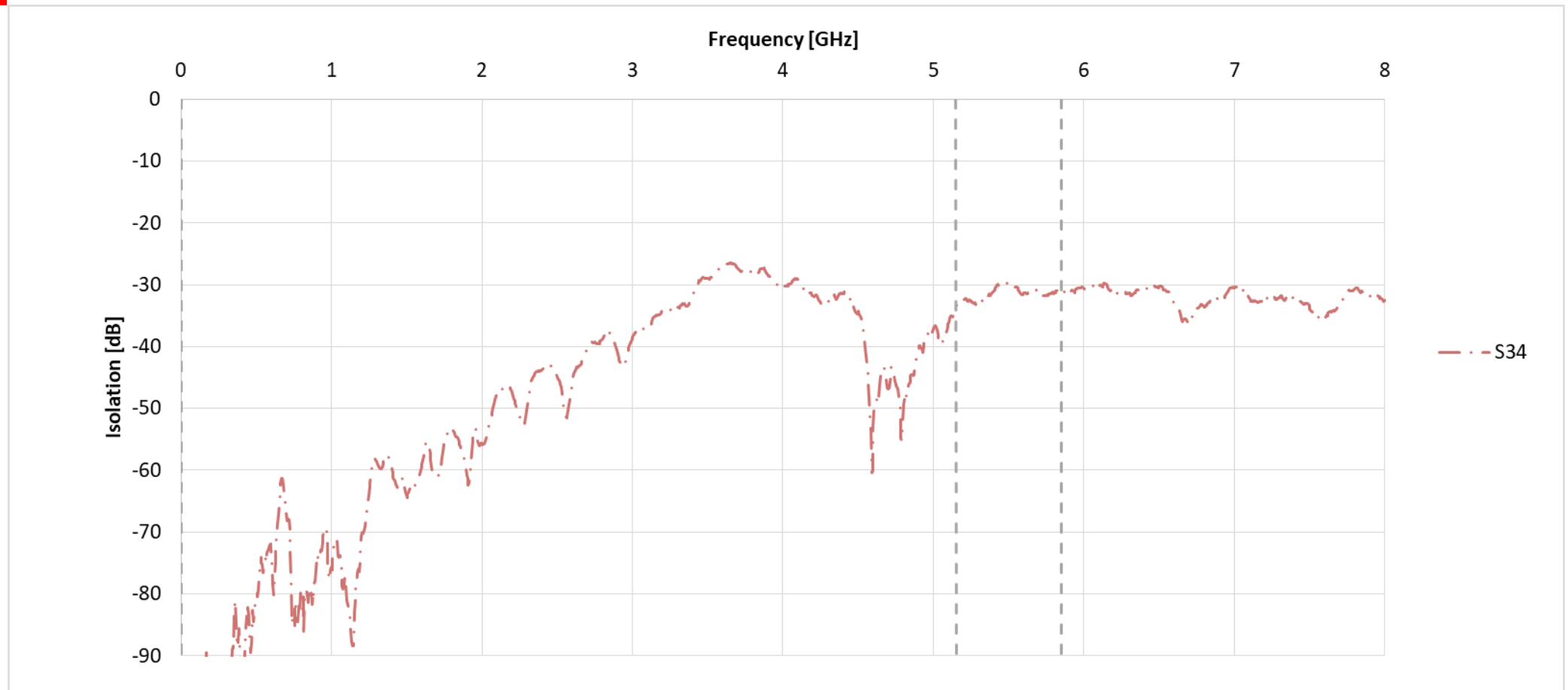
2.4GHz < -20 dB

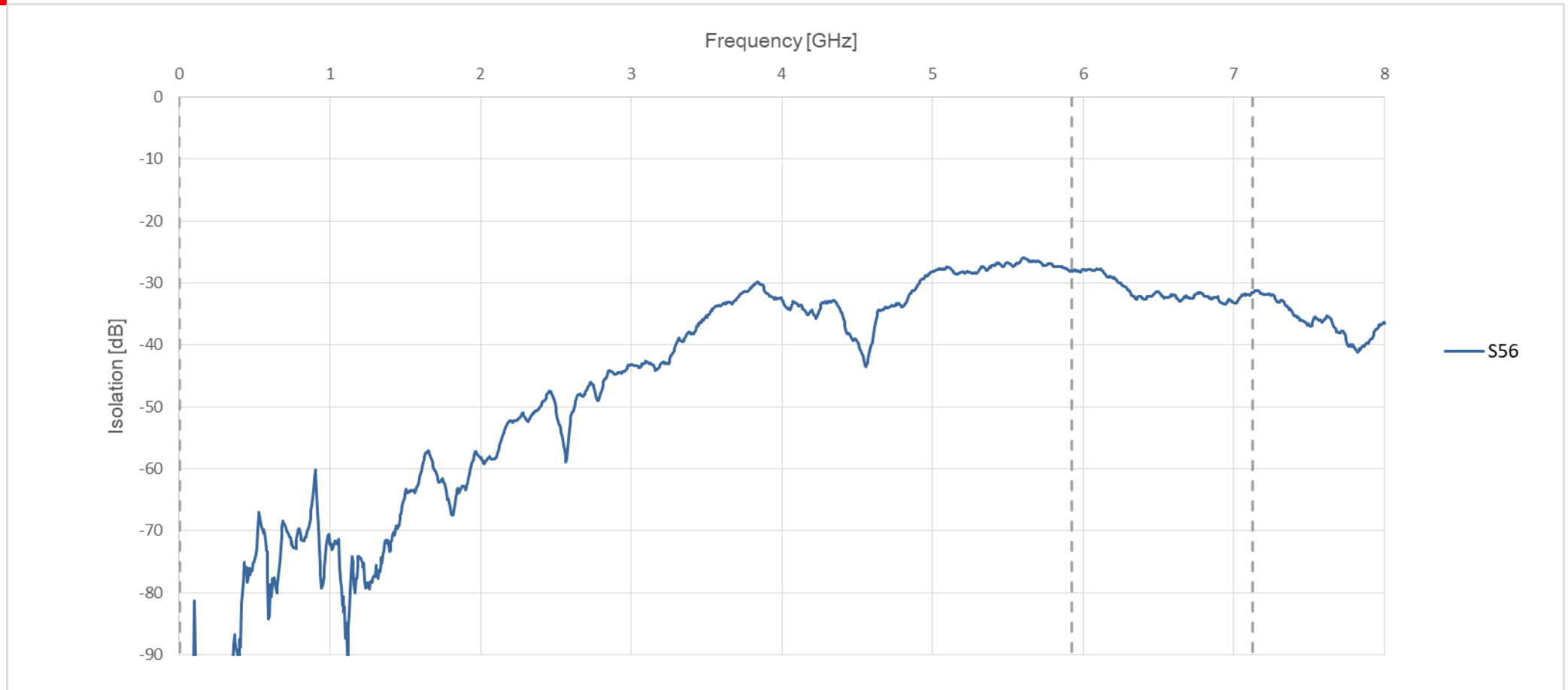


Isolation 5GHz vs 5GHz

ANT3 vs 4

5GHz < -30 dB





EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



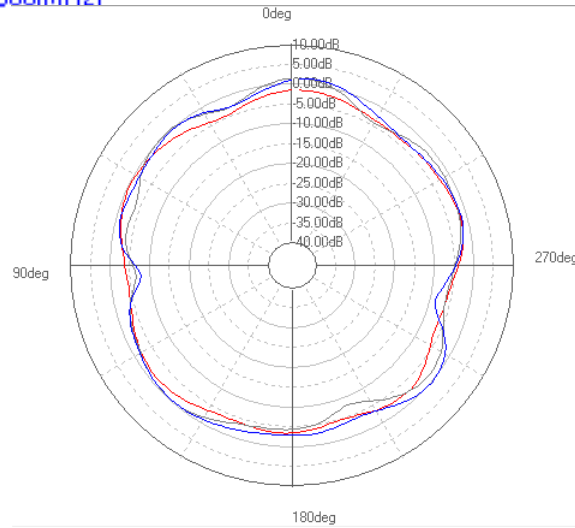
ANT1-2.4G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
2400	66%	-1.8	3.4	-0.4	0.6	2.6
2450	67%	-1.7	4.2	1.3	-0.4	3.9
2500	70%	-1.6	4.2	1.2	0.2	3.2

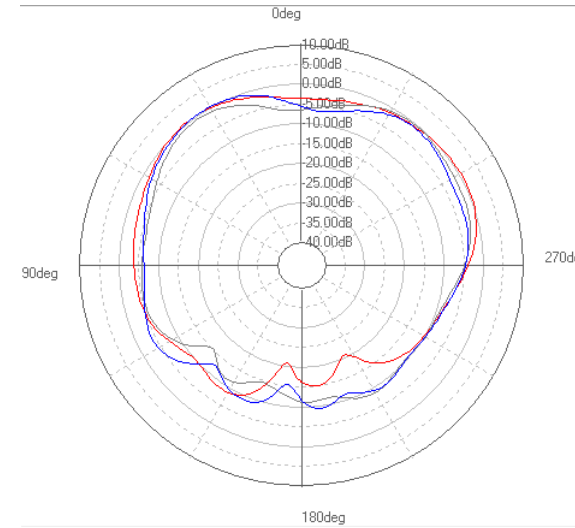
Legend

- 2400(MHz)
- 2450(MHz)
- 2500(MHz)

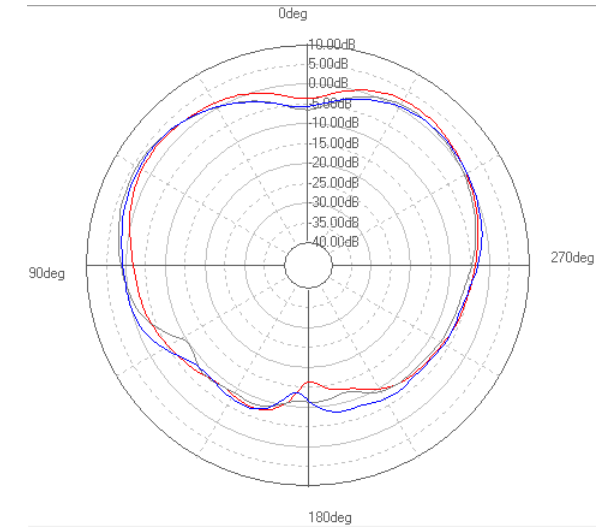
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



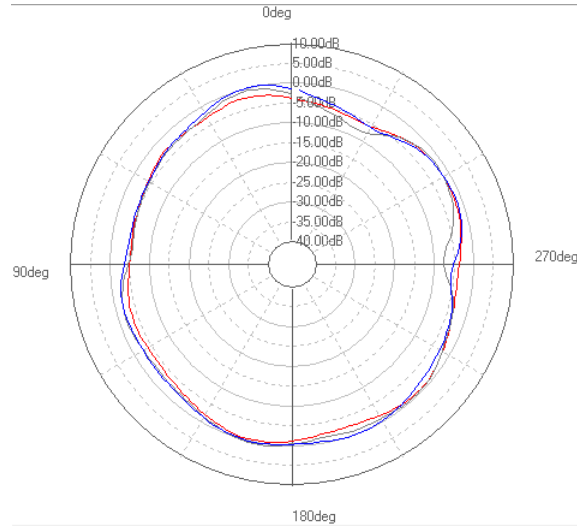
ANT2-2.4G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
2400	71%	-1.5	3.4	-0.5	2.5	3.1
2450	71%	-1.5	3.8	0.3	2.0	3.2
2500	72%	-1.4	3.5	0.0	1.3	2.8

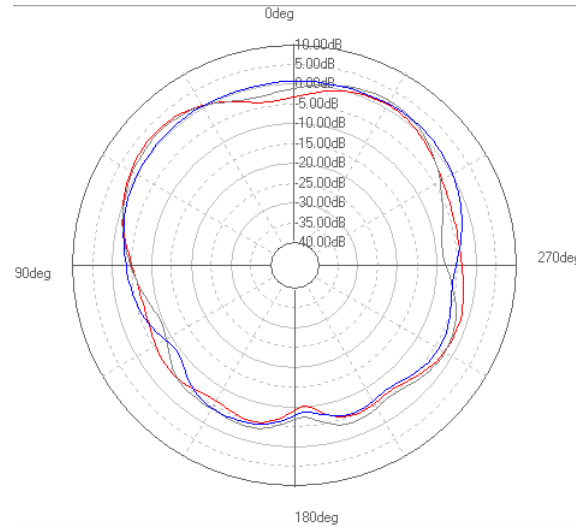
Legend

- 2400(MHz)
- 2450(MHz)
- 2500(MHz)

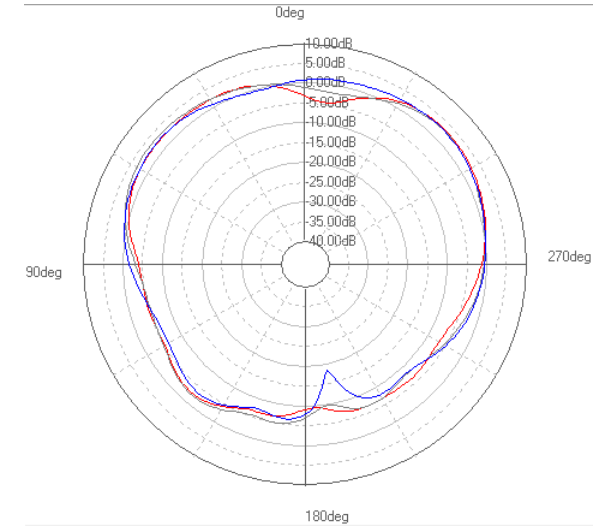
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



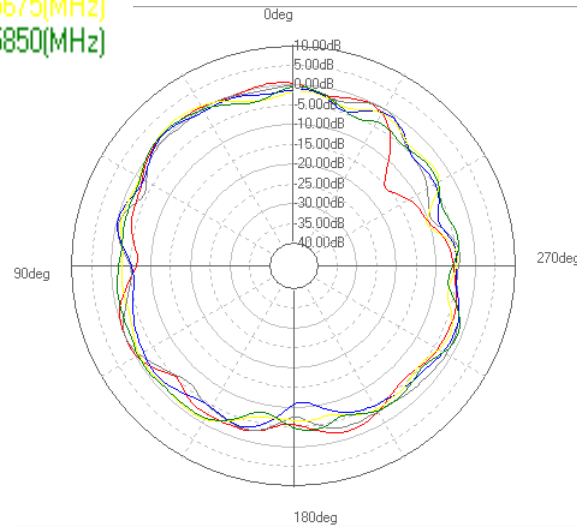
ANT3-5G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5150	73%	-1.3	5.5	0.8	5.0	3.7
5350	77%	-1.1	5.0	0.1	4.9	4.8
5500	68%	-1.7	4.5	0.7	3.8	4.5
5675	70%	-1.6	5.2	1.6	2.8	3.7
5850	68%	-1.7	4.1	1.0	3.0	4.0

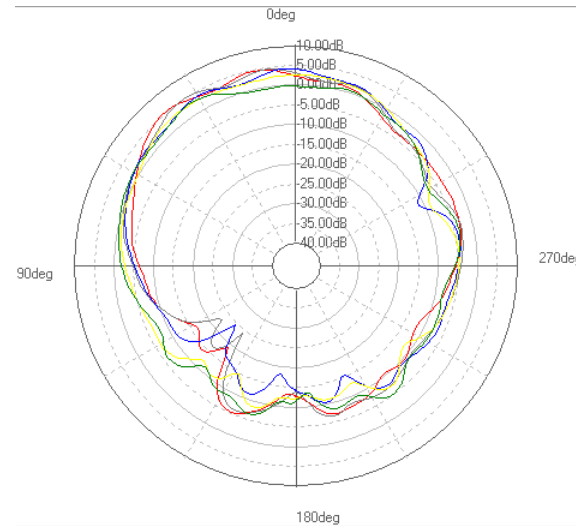
Legend

- 5150(MHz)
- 5325(MHz)
- 5500(MHz)
- 5675(MHz)
- 5850(MHz)

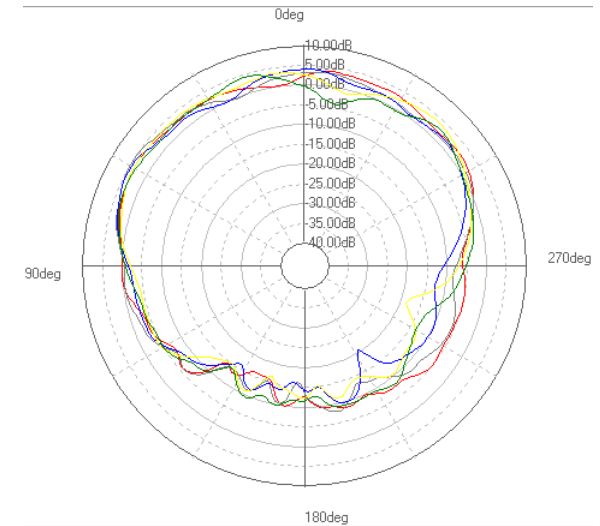
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



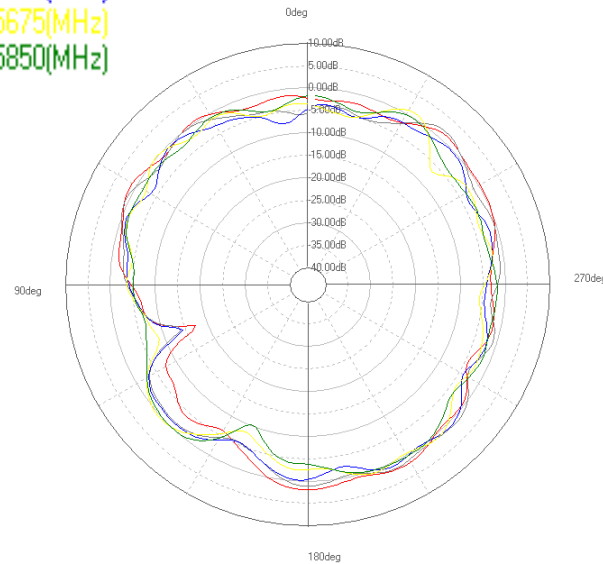
ANT4-5G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5150	69%	-1.6	4.7	1.8	2.1	3.8
5350	73%	-1.4	4.8	1.9	3.1	3.7
5500	63%	-2.0	4.5	0.8	2.7	4.1
5675	67%	-1.7	4.8	1.1	2.2	3.6
5850	67%	-1.7	4.5	0.3	1.6	3.9

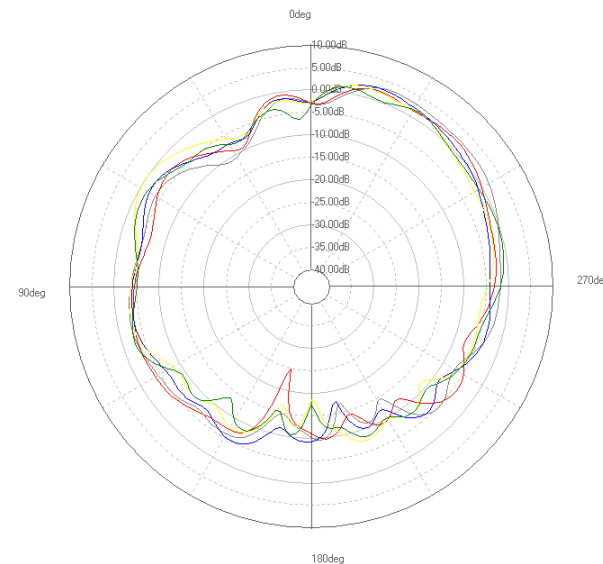
Legend

- 5150(MHz)
- 5325(MHz)
- 5500(MHz)
- 5675(MHz)
- 5850(MHz)

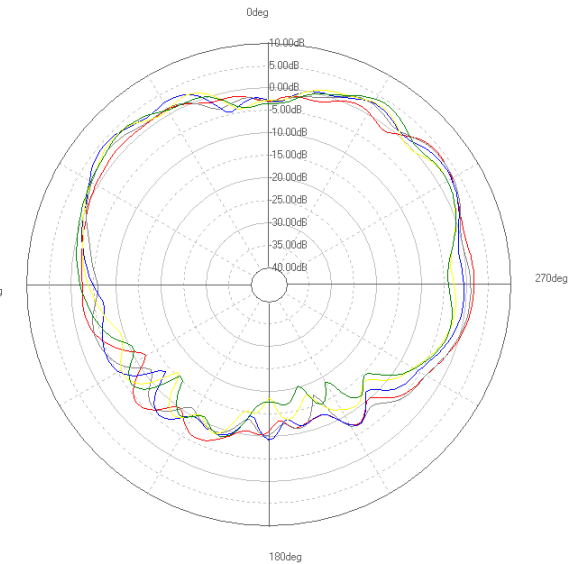
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



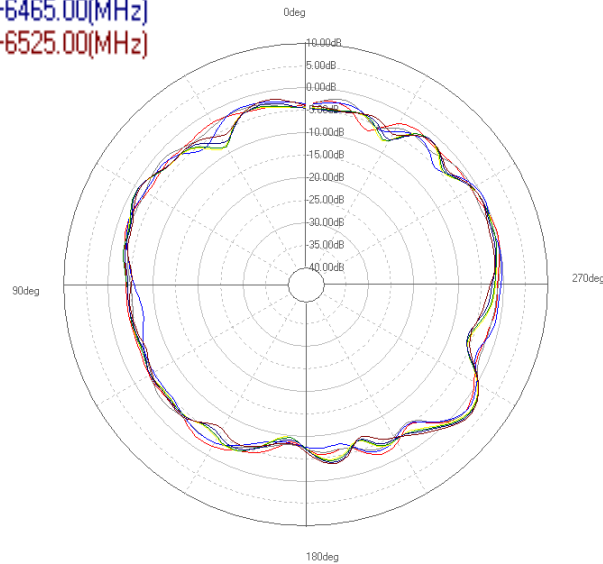
ANT5-6G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5925	56%	-2.5	5.2	1.4	3.1	2.6
6085	58%	-2.4	5.5	1.6	3.4	2.5
6245	54%	-2.7	4.7	1.5	2.4	2.2
6405	55%	-2.6	5.0	2.2	2.2	1.2
6425	56%	-2.5	5.1	2.4	2.4	1.3
6465	57%	-2.5	5.3	2.6	2.7	1.5
6525	56%	-2.5	5.4	2.8	2.8	1.8
6645	56%	-2.5	4.9	2.2	3.2	1.8
6795	55%	-2.6	4.5	2.2	2.5	2.0
6875	57%	-2.5	4.2	2.1	2.1	1.8
6975	56%	-2.5	4.0	2.1	1.9	1.2
7095	55%	-2.6	3.5	1.4	1.4	1.6
7125	55%	-2.6	3.4	1.2	1.3	1.8

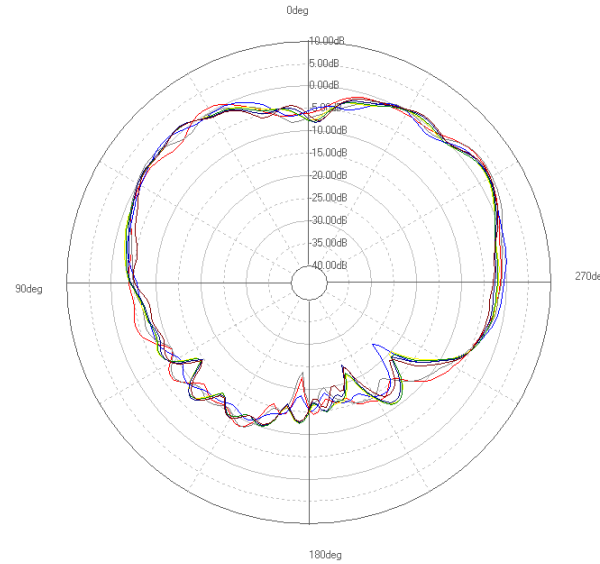
Legend

- 5925.00(MHz)
- 6085.00(MHz)
- 6245.00(MHz)
- 6405.00(MHz)
- 6425.00(MHz)
- 6465.00(MHz)
- 6525.00(MHz)

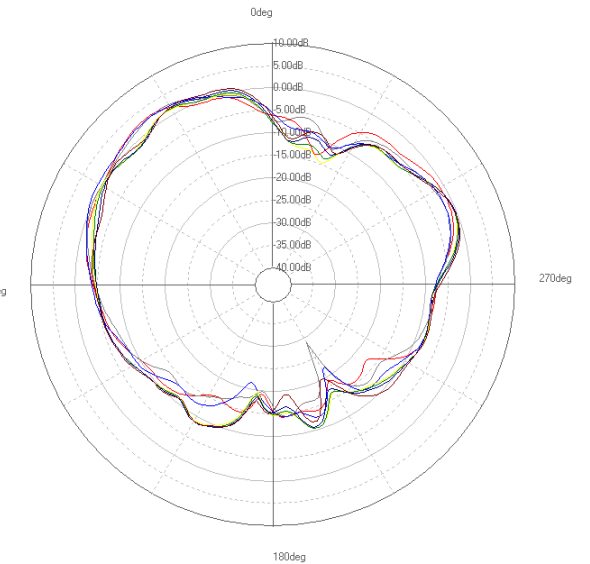
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



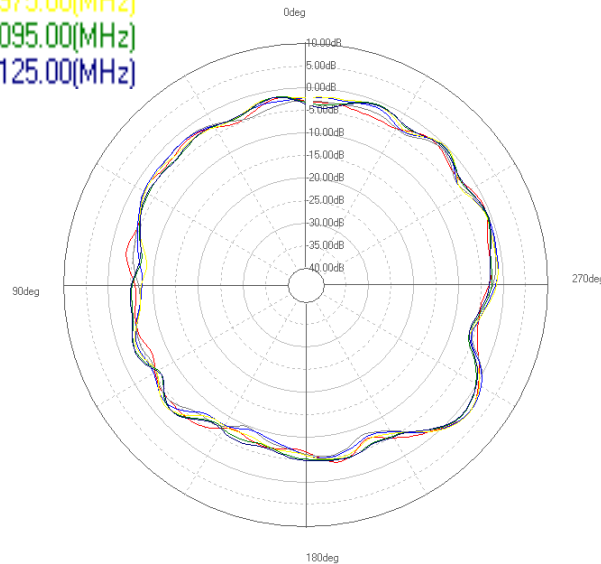
ANT5-6G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5925	56%	-2.5	5.2	1.4	3.1	2.6
6085	58%	-2.4	5.5	1.6	3.4	2.5
6245	54%	-2.7	4.7	1.5	2.4	2.2
6405	55%	-2.6	5.0	2.2	2.2	1.2
6425	56%	-2.5	5.1	2.4	2.4	1.3
6465	57%	-2.5	5.3	2.6	2.7	1.5
6525	56%	-2.5	5.4	2.8	2.8	1.8
6645	56%	-2.5	4.9	2.2	3.2	1.8
6795	55%	-2.6	4.5	2.2	2.5	2.0
6875	57%	-2.5	4.2	2.1	2.1	1.8
6975	56%	-2.5	4.0	2.1	1.9	1.2
7095	55%	-2.6	3.5	1.4	1.4	1.6
7125	55%	-2.6	3.4	1.2	1.3	1.8

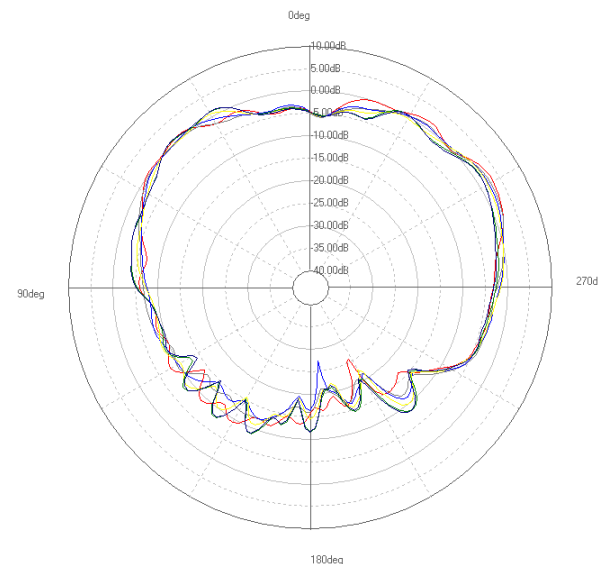
Legend

- 6645.00(MHz)
- 6795.00(MHz)
- 6875.00(MHz)
- 6975.00(MHz)
- 7095.00(MHz)
- 7125.00(MHz)

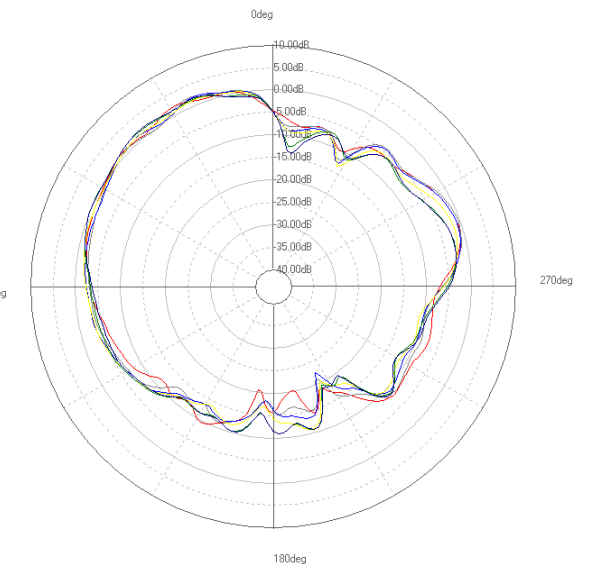
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



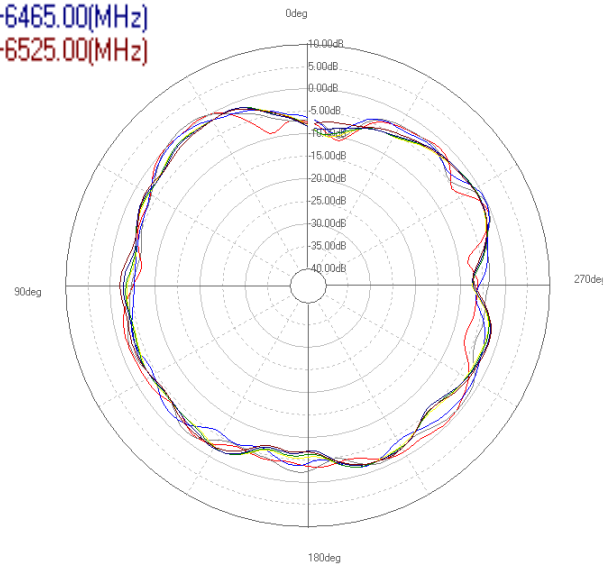
ANT6-6G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5925	58%	-2.3	4.6	0.2	2.4	3.6
6085	61%	-2.2	4.8	0.8	2.7	2.9
6245	57%	-2.4	4.5	-0.1	2.2	2.5
6405	56%	-2.5	5.3	-1.0	2.3	3.4
6425	57%	-2.5	5.3	-1.0	2.3	3.5
6465	57%	-2.4	5.4	-1.0	2.4	3.6
6525	58%	-2.4	5.3	-1.1	2.6	3.3
6645	58%	-2.4	5.1	-1.1	2.1	3.1
6795	55%	-2.6	4.3	-0.9	1.7	2.7
6875	57%	-2.5	4.6	-0.4	2.1	2.6
6975	55%	-2.6	4.0	-0.4	2.3	2.3
7095	56%	-2.5	4.3	-0.1	1.8	3.2
7125	55%	-2.6	4.4	-0.4	1.9	3.4

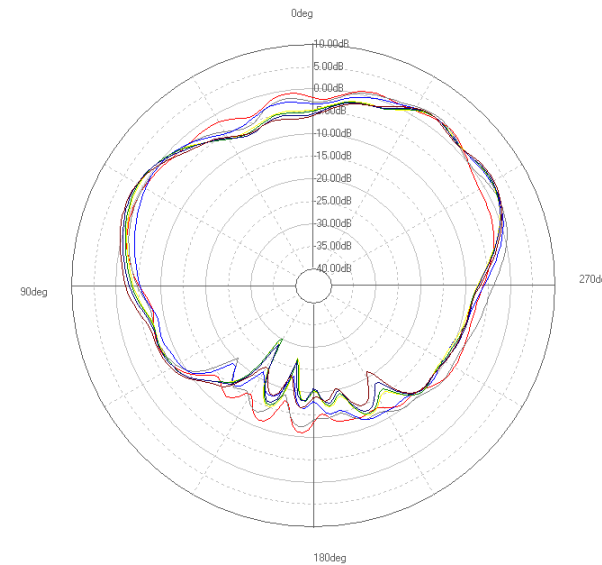
Legend

- 5925.00(MHz)
- 6085.00(MHz)
- 6245.00(MHz)
- 6405.00(MHz)
- 6425.00(MHz)
- 6465.00(MHz)
- 6525.00(MHz)

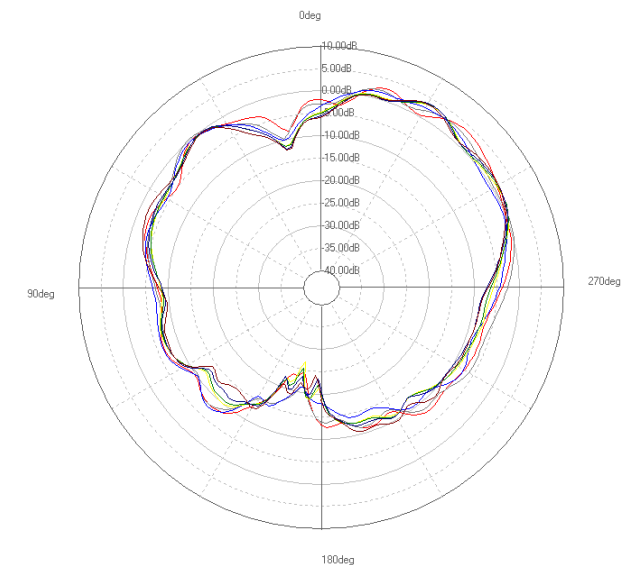
XY-plane



ZY-plane



ZX-plane



EW-7489WAX Antenna 2.4G*2 / 5G*2

GAIN TABLE / PATTERN



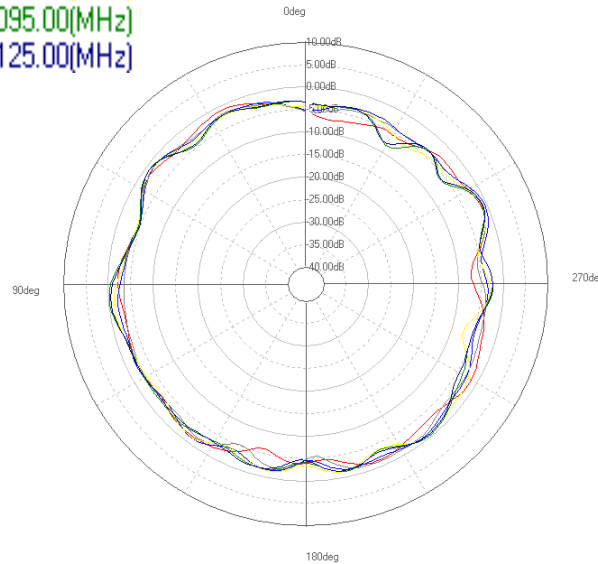
ANT6-6G

Frequency (MHz)	3D			Peak Gain		
	Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane	ZX-plane
5925	58%	-2.3	4.6	0.2	2.4	3.6
6085	61%	-2.2	4.8	0.8	2.7	2.9
6245	57%	-2.4	4.5	-0.1	2.2	2.5
6405	56%	-2.5	5.3	-1.0	2.3	3.4
6425	57%	-2.5	5.3	-1.0	2.3	3.5
6465	57%	-2.4	5.4	-1.0	2.4	3.6
6525	58%	-2.4	5.3	-1.1	2.6	3.3
6645	58%	-2.4	5.1	-1.1	2.1	3.1
6795	55%	-2.6	4.3	-0.9	1.7	2.7
6875	57%	-2.5	4.6	-0.4	2.1	2.6
6975	55%	-2.6	4.0	-0.4	2.3	2.3
7095	56%	-2.5	4.3	-0.1	1.8	3.2
7125	55%	-2.6	4.4	-0.4	1.9	3.4

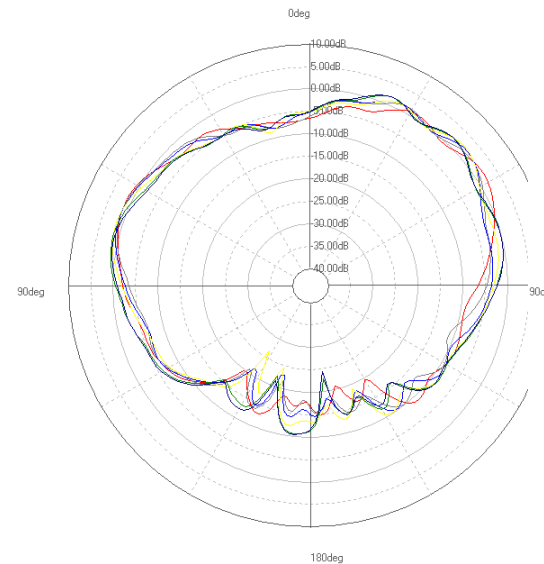
Legend

- 6645.00(MHz)
- 6795.00(MHz)
- 6875.00(MHz)
- 6975.00(MHz)
- 7095.00(MHz)
- 7125.00(MHz)

XY-plane



ZY-plane



ZX-plane

