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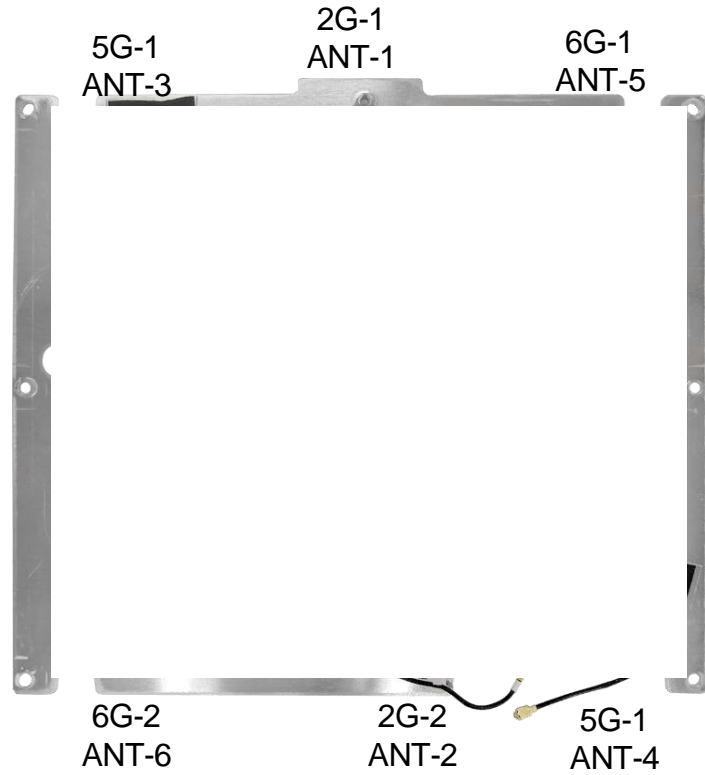
EW-7689WTX Antenna

2.4G*2 / 5G*2 / 6G*2 Updated Test Report

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EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

Antenna type : PIFA



Antenna Spec 2.4G*2 / 5G*2 / 6G*2

Antenna type : PIFA

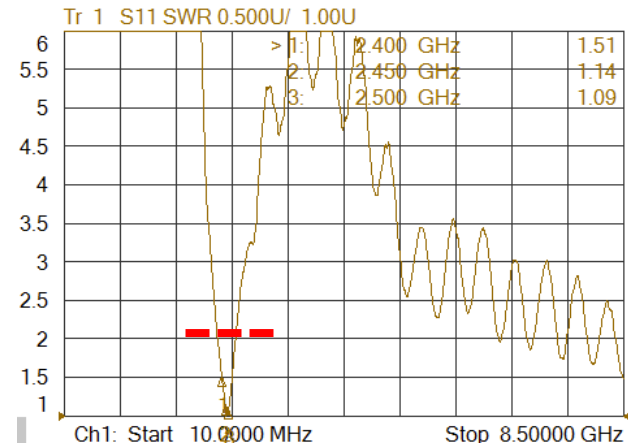


Specification						
Frequency	2G		5G		6G	
Item	ANT-1	ANT-2	ANT-3	ANT-4	ANT-5	ANT-6
Efficiency	66~70%	71~72%	68~77%	63~73%	54~58%	55~61%
Peak Gain	3.4~4.2 dBi	3.4~3.8 dBi	4.1~5.5 dBi	4.5~4.8 dBi	3.4~5.5 dBi	4.0~5.4 dBi
VSWR	2.0 max.:1					
Connector	MHF Plug For 1.13 CBL. Gold Plate				MHF Plug For 0.81 CBL. Gold Plate	
Cable	OD1.13 CBL				0.81 CBL	
CBL. Color	Green	Green	Blue	Blue	Black	Black
Impedance	50 Ohms					

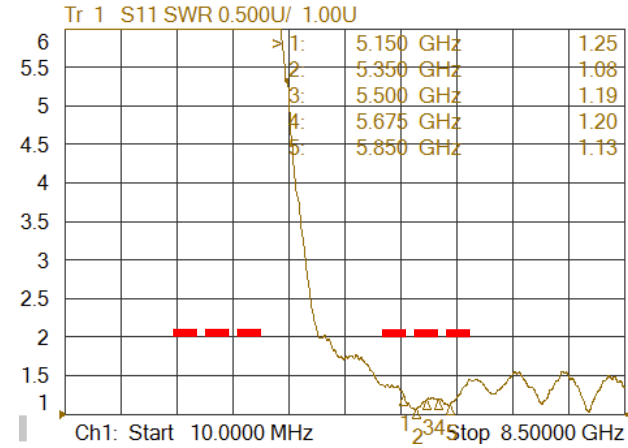
VSWR < 2.0 max.:1



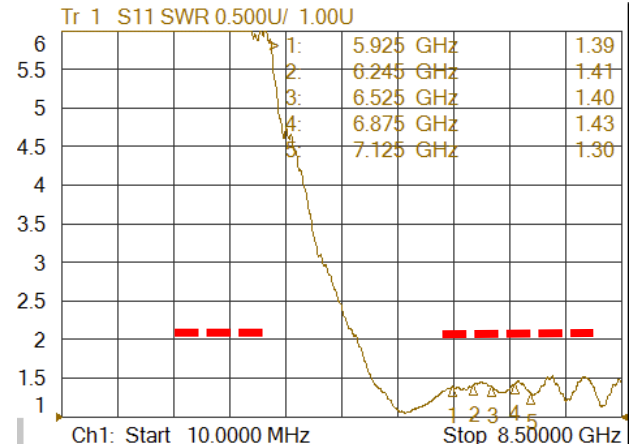
ANT-1



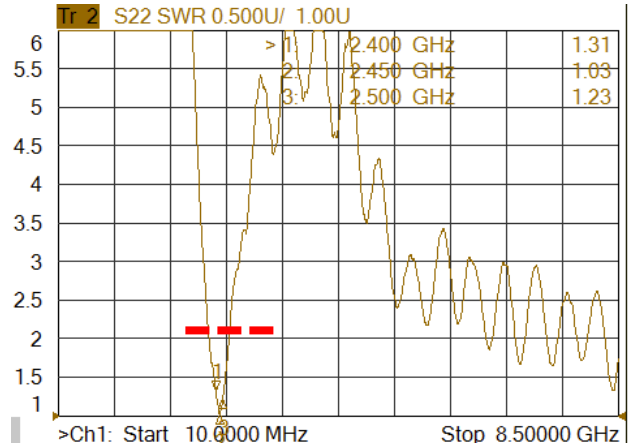
ANT-3



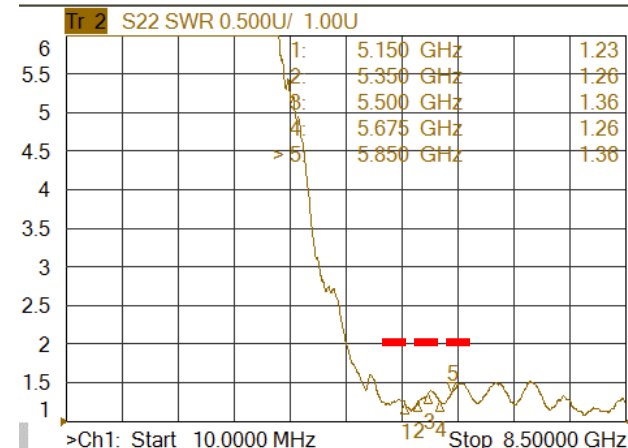
ANT-5



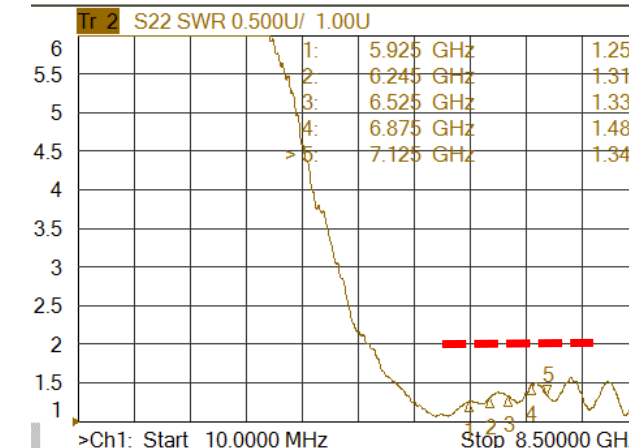
ANT-2



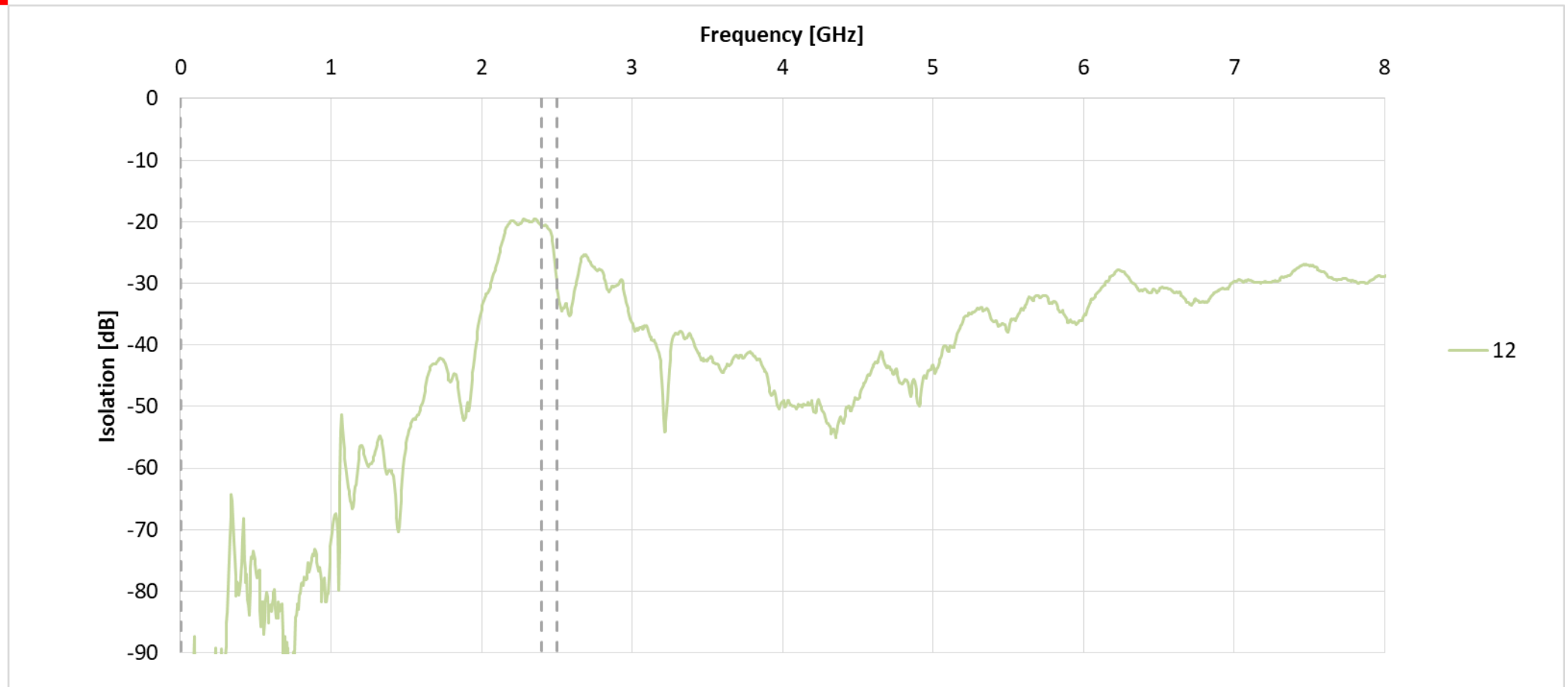
ANT-4



ANT-6



Isolation 2G vs 2G ANT1 vs 2 2.4GHz < -20 dB



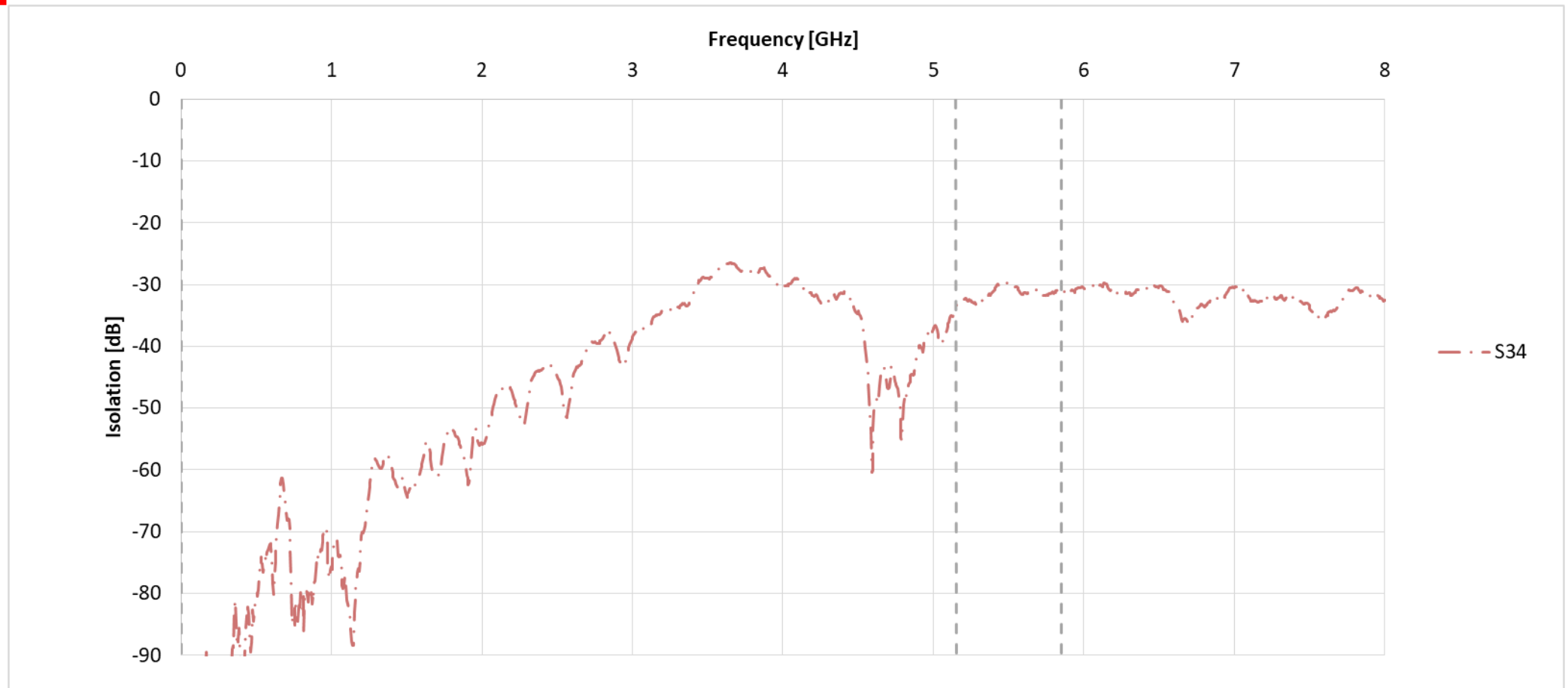
— 12



Isolation 5GHz vs 5GHz

ANT3 vs 4

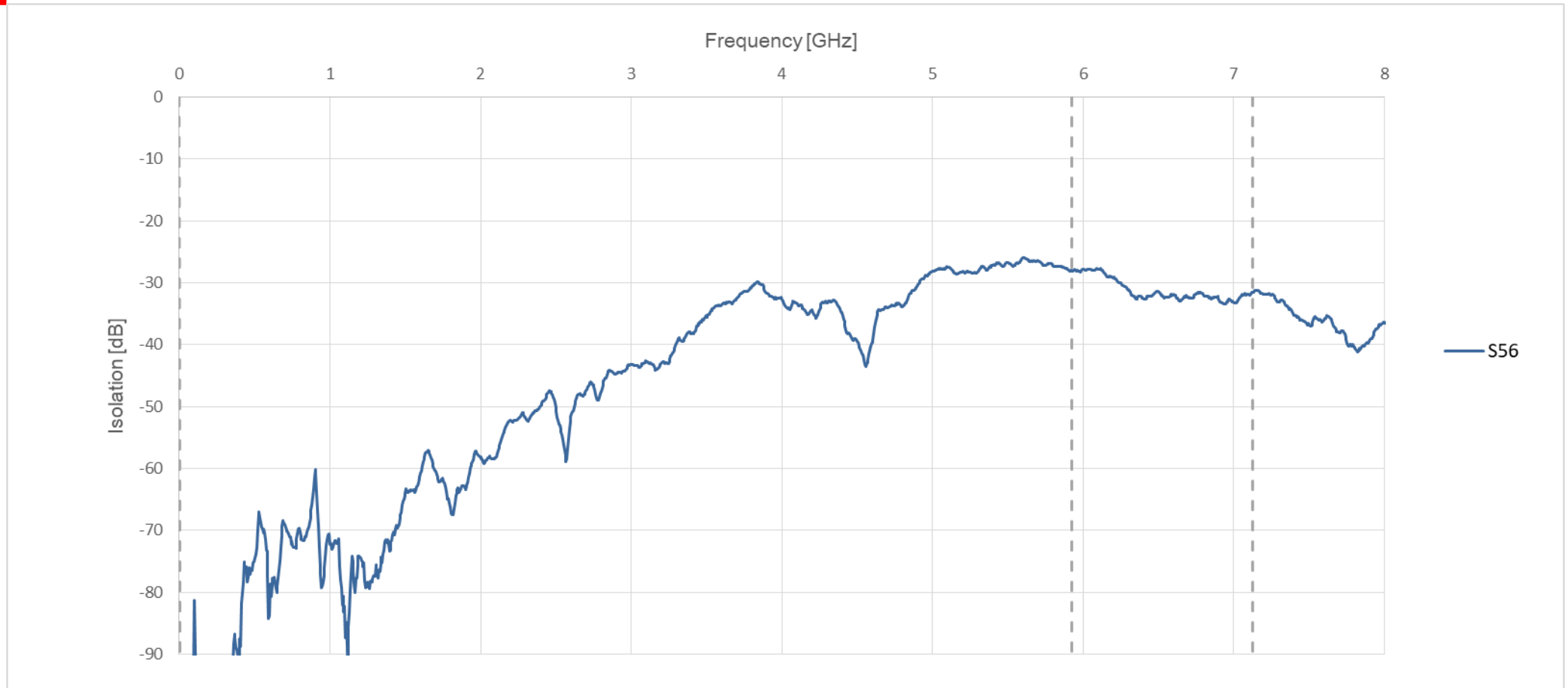
5GHz < -30 dB



Isolation 6G vs 6G

ANT5 vs 6

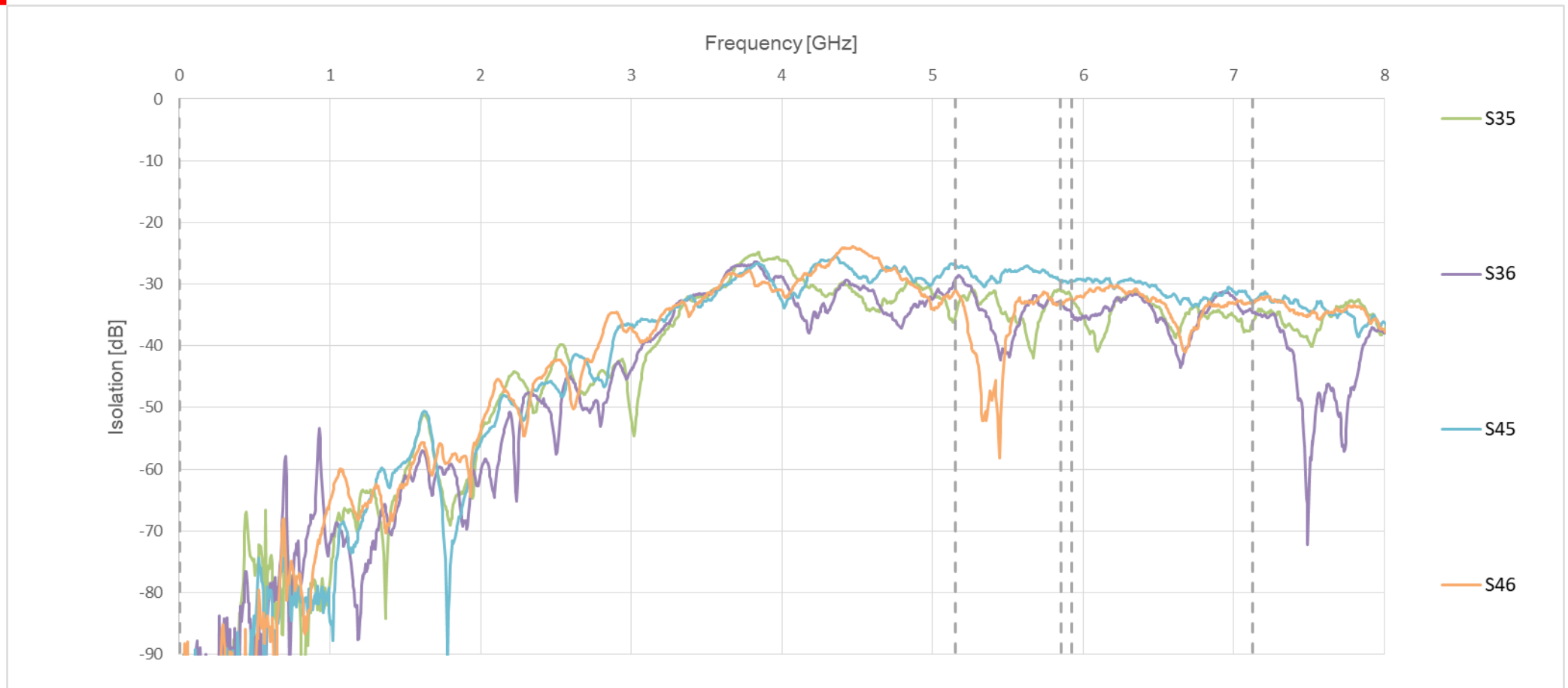
6GHz < -27 dB



Isolation 5GHz vs 6GHz

ANT-3/4 vs 5/6

5GHz/6GHz < -27 dB



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



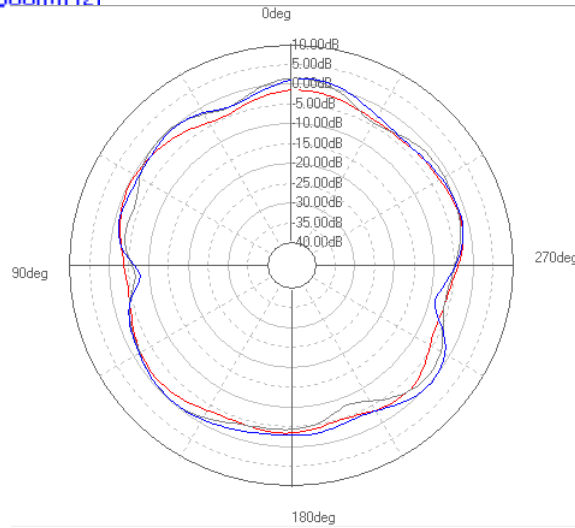
ANT1-2.4G

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

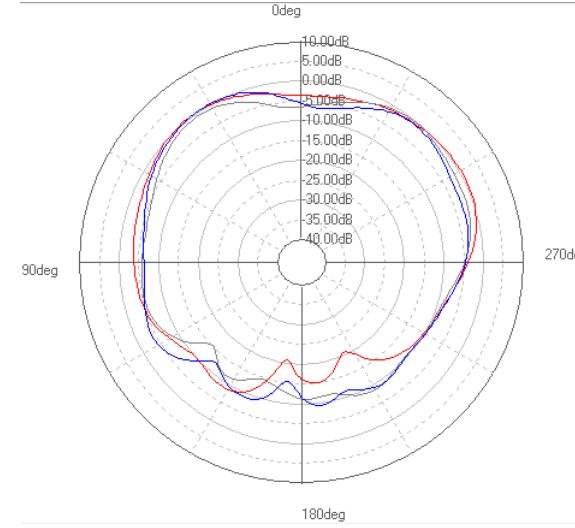
Legend

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

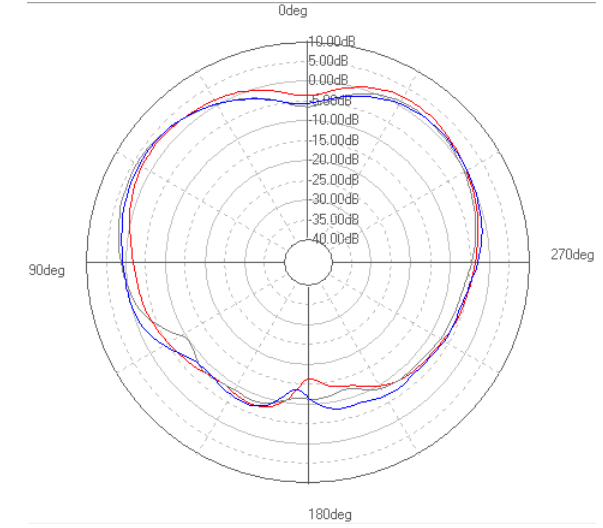
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



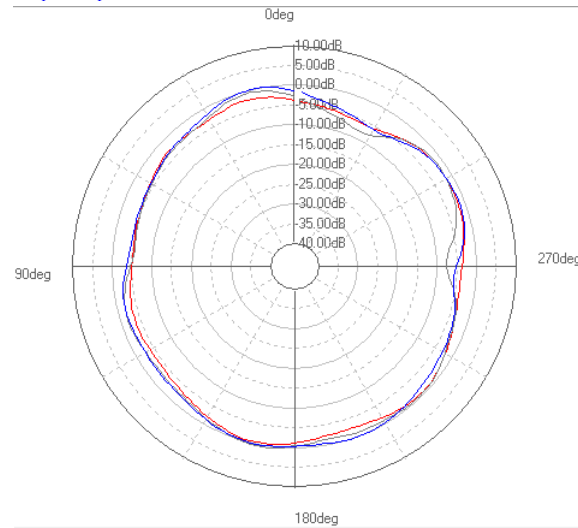
ANT2-2.4G

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

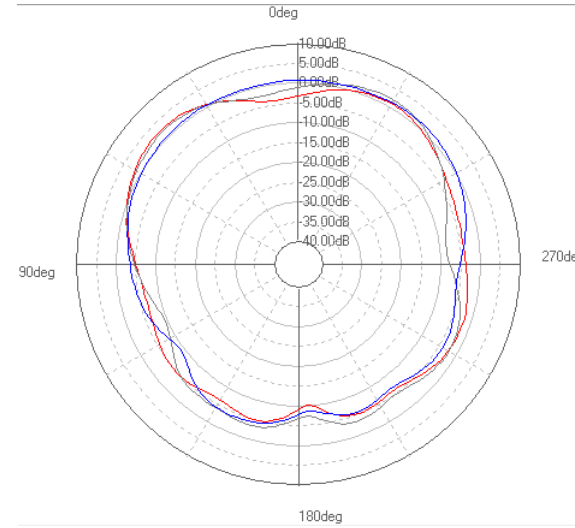
Legend

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

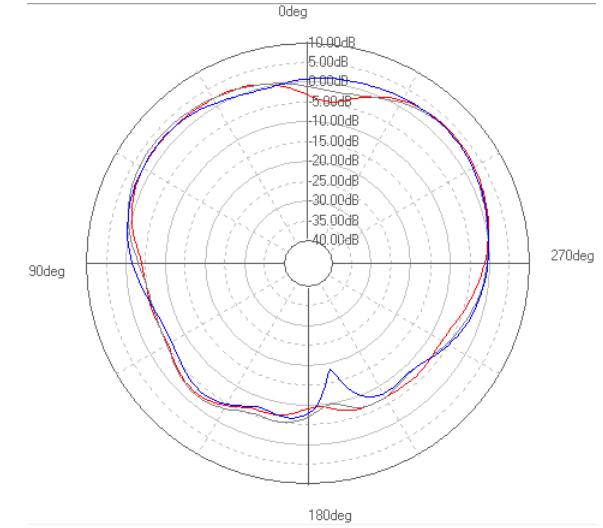
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



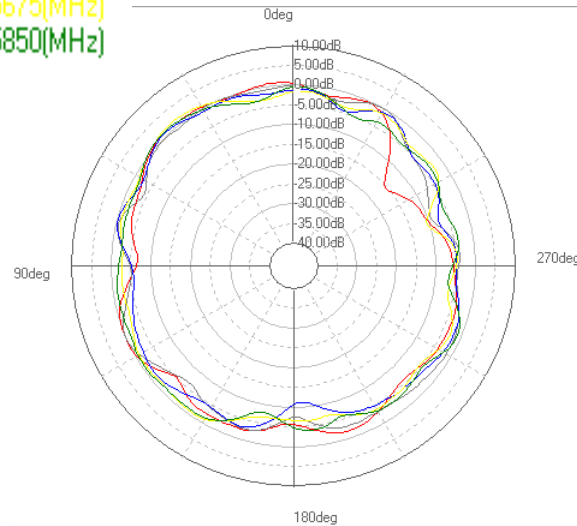
ANT3-5G

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

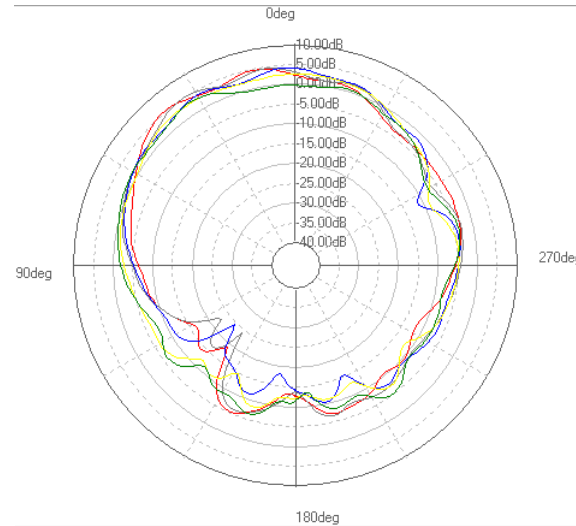
Legend

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

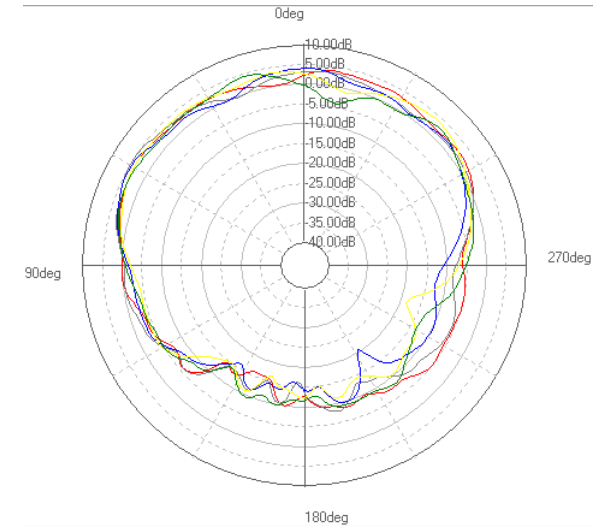
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



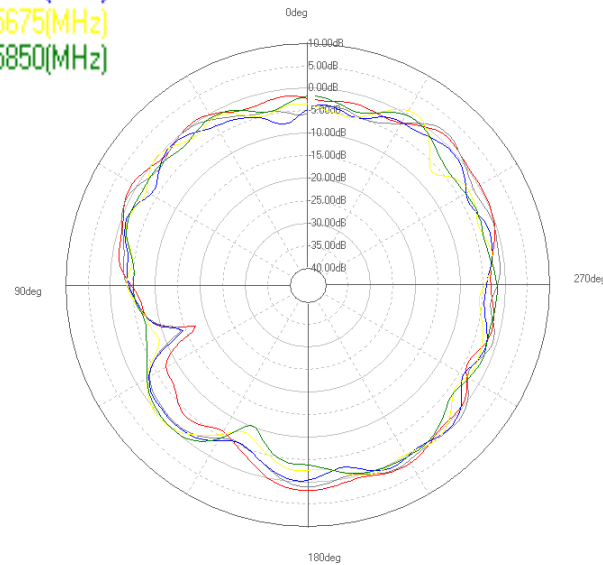
ANT4-5G

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

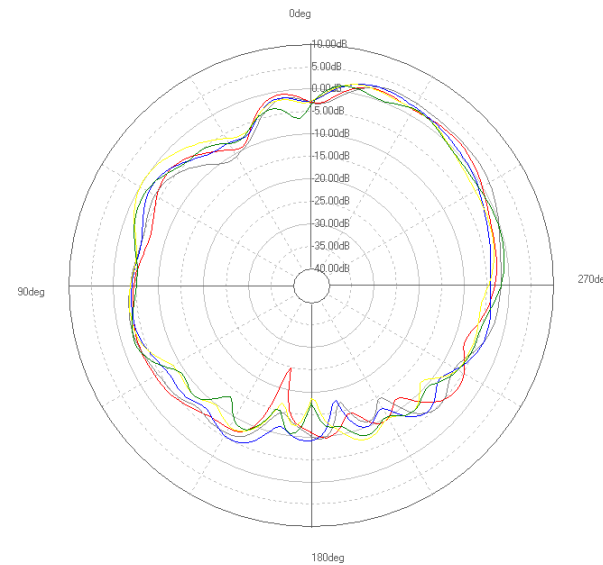
Legend

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

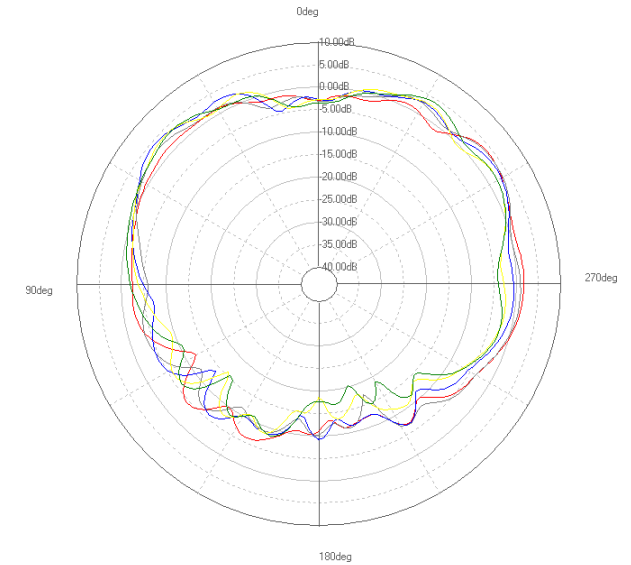
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



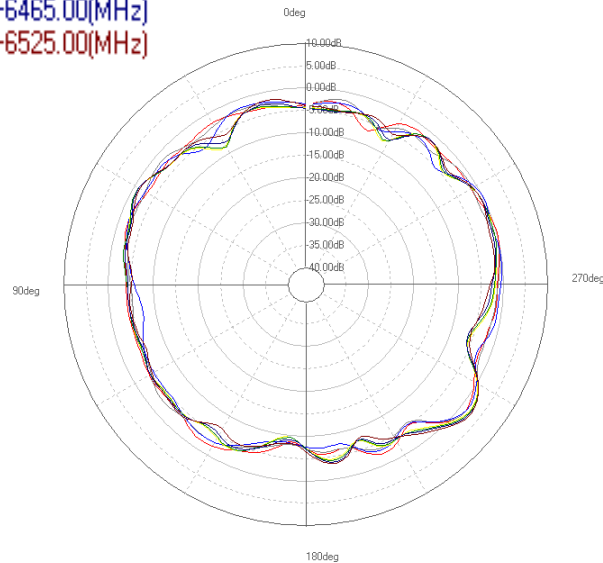
ANT5-6G

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

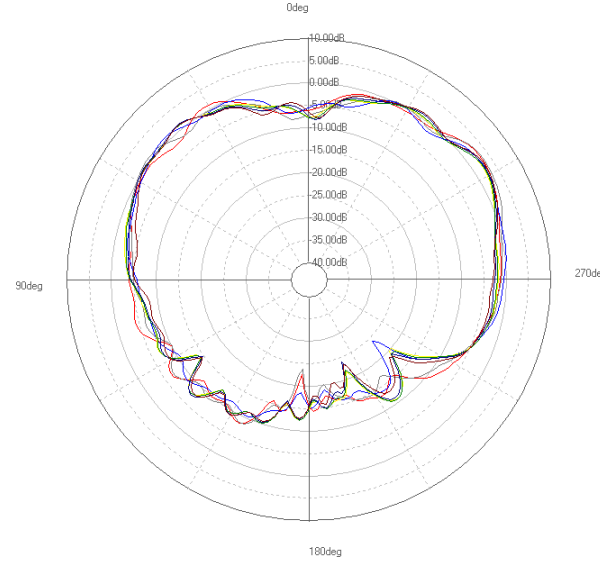
Legend

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

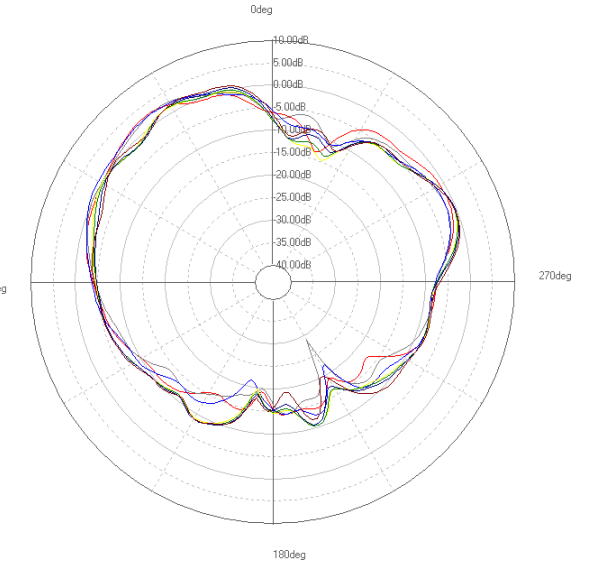
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



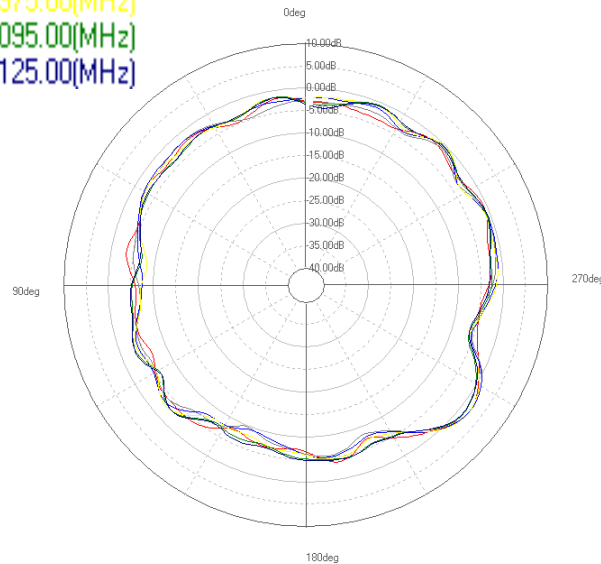
ANT5-6G

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

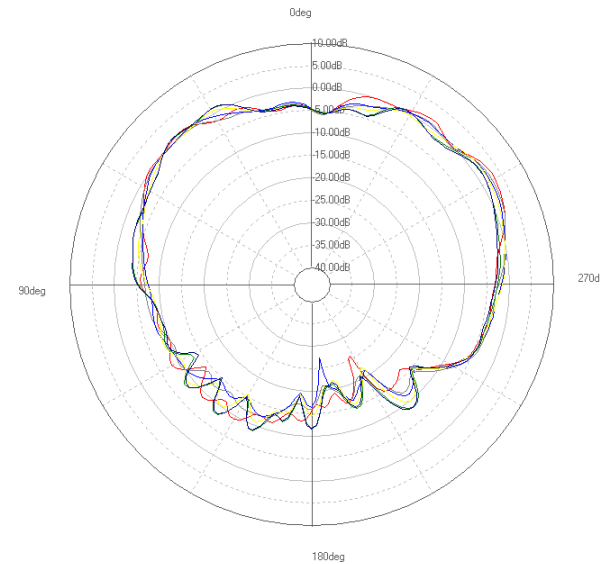
Legend

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

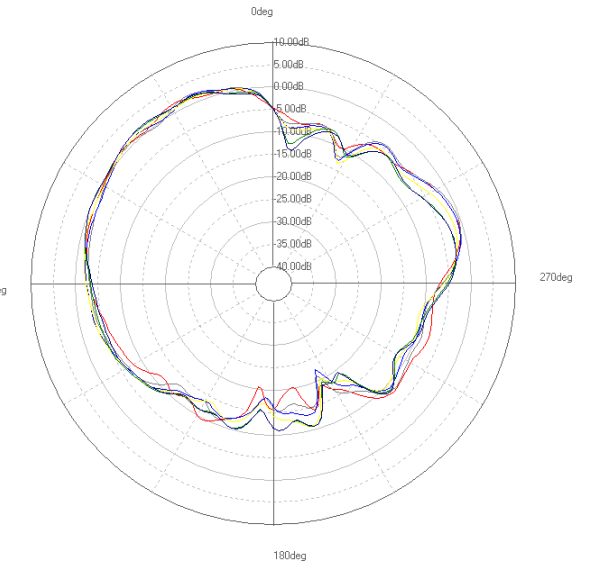
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



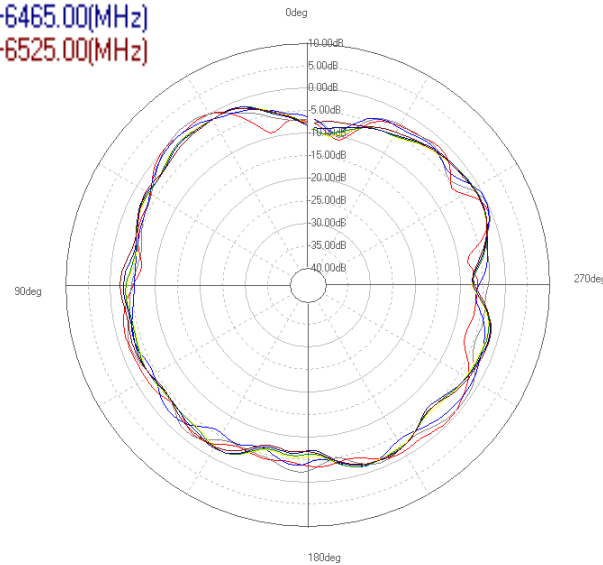
ANT6-6G

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

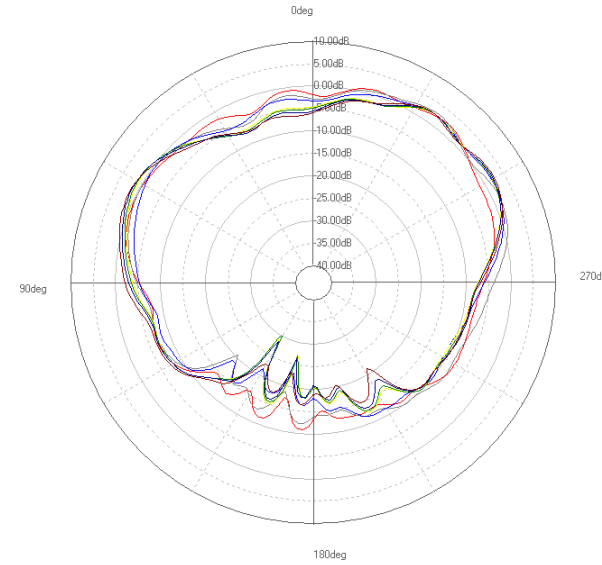
Legend

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

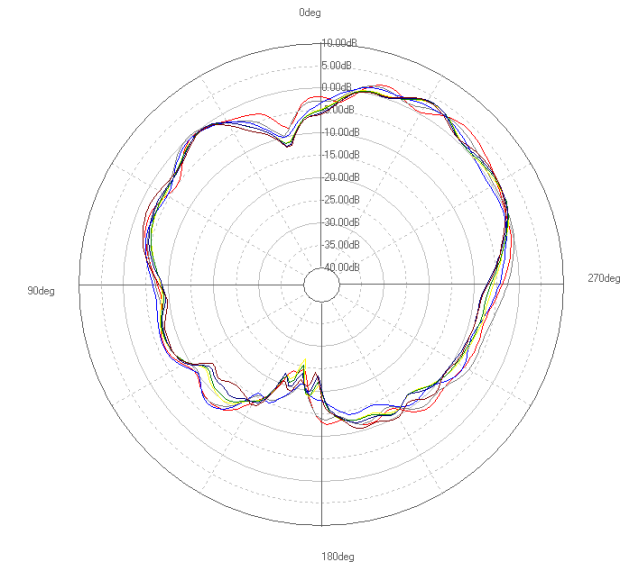
XY-plane



ZY-plane



ZX-plane



EW-7689WTX Antenna 2.4G*2 / 5G*2 / 6G*2

GAIN TABLE / PATTERN



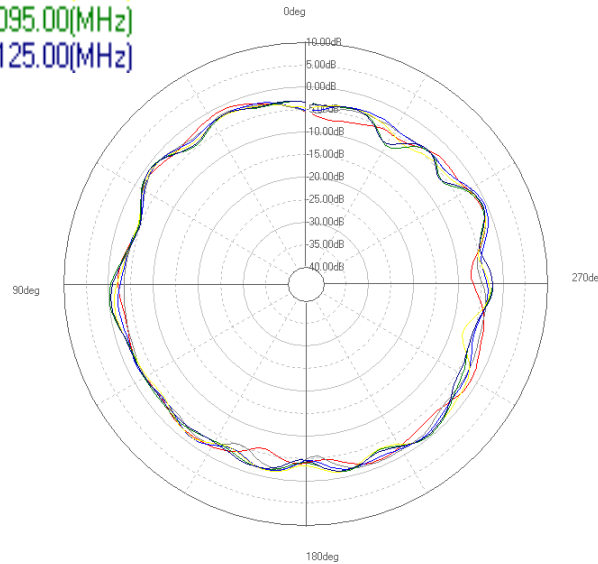
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6405	56%	-2.5	5.3	-1.0	2.3	3.4
6425	57%	-2.5	5.3	-1.0	2.3	3.5
6465	57%	-2.4	5.4	-1.0	2.4	3.6
6525	58%	-2.4	5.3	-1.1	2.6	3.3
6645	58%	-2.4	5.1	-1.1	2.1	3.1
6795	55%	-2.6	4.3	-0.9	1.7	2.7
6875	57%	-2.5	4.6	-0.4	2.1	2.6
6975	55%	-2.6	4.0	-0.4	2.3	2.3
7095	56%	-2.5	4.3	-0.1	1.8	3.2
7125	55%	-2.6	4.4	-0.4	1.9	3.4

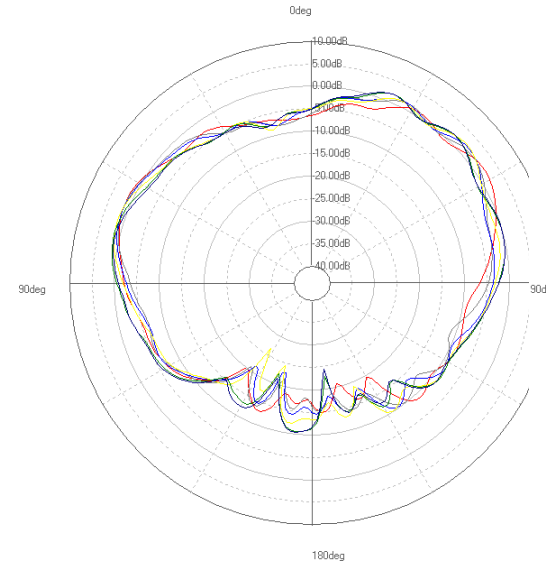
Legend

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XY-plane



ZY-plane



ZX-plane

