

ANTENNA GAIN / PATTERN TEST REPORT

Antenna Type: PIFA

Issue Date: June 10, 2026

FCC ID APYHRO00344

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2.1 Antenna Photos

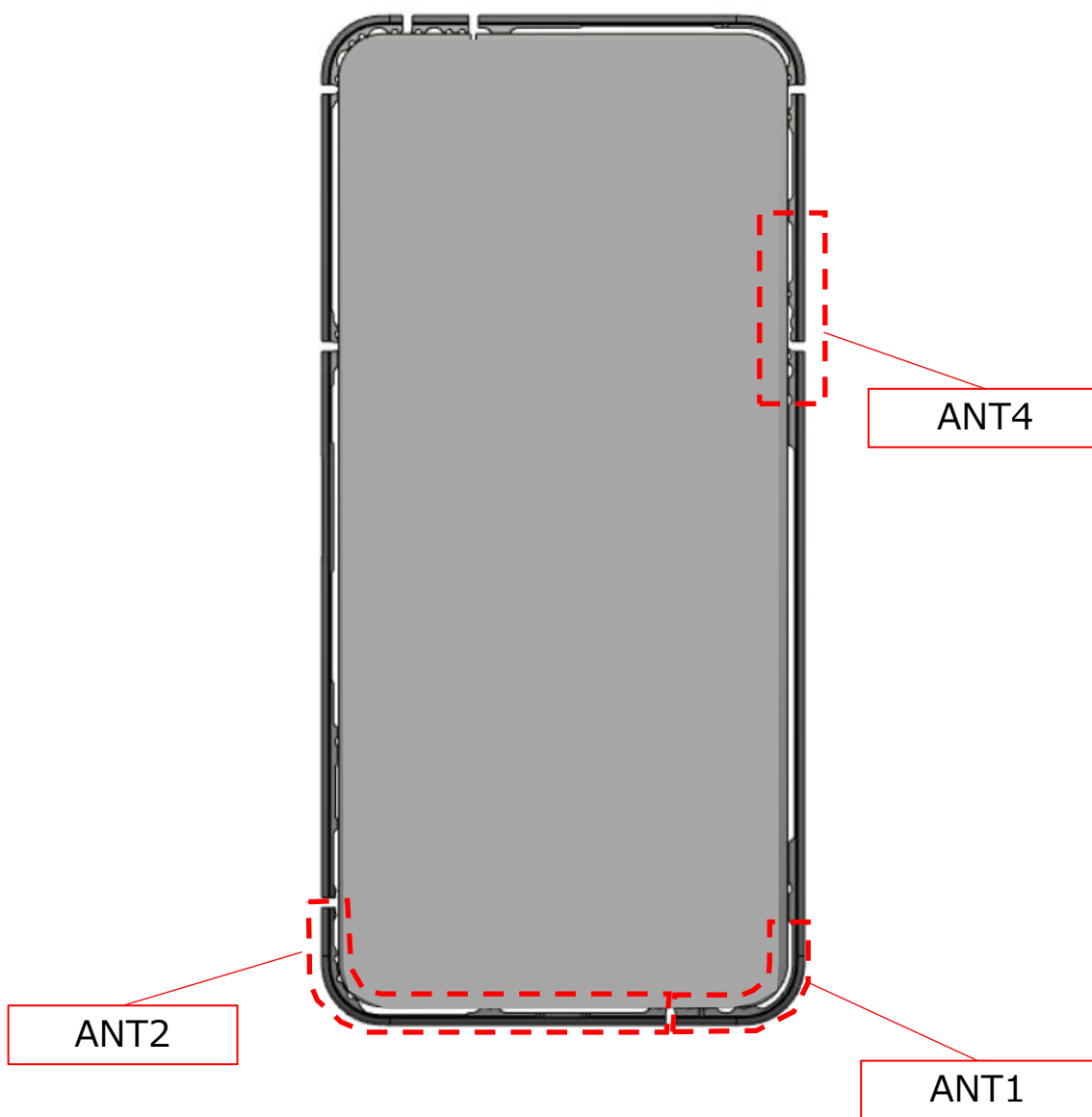
2.2 Antenna Gain

2.3 Antenna Pattern

Cellular

1.1 Antenna Photos

Figure 1



Cellular

1.2 Antenna Gain

ANT		ANT1					
Band		B3/GSM1800	B2/GSM1900	B1	B40	B7/B41	B38
Frequency	Plane	1770	1910	1950	2300	2690	2620
Peak Gain (Etotal)	XY	-3.7	-2.5	-2.2	-4.4	-4.3	-4.9
	YZ	-2.4	-2.2	-2.0	-4.2	-4.4	-4.6
	XZ	-3.6	-1.8	-1.7	-3.7	-4.4	-4.6
Avg. Gain (Etotal)	XY	-6.2	-5.1	-5.0	-7.3	-7.3	-7.9
	YZ	-6.3	-6.0	-5.9	-7.4	-7.6	-8.1
	XZ	-4.8	-3.8	-3.8	-5.9	-6.2	-6.6

Unit [dBi]

ANT		ANT2				ANT4
Band		B12/B17	B28	B5/GSM850	B8/GSM900	B78
Frequency	Plane	716	748	849	915	3480
Peak Gain (Etotal)	XY	-5.7	-4.6	-3.6	-3.4	-1.9
	YZ	-5.5	-4.3	-3.1	-3.4	-5.4
	XZ	-5.7	-4.9	-4.3	-4.3	-5.3
Avg. Gain (Etotal)	XY	-6.5	-5.5	-5.3	-5.9	-5.7
	YZ	-9.7	-8.5	-7.6	-7.5	-10.1
	XZ	-9.2	-8.3	-7.5	-6.8	-7.8

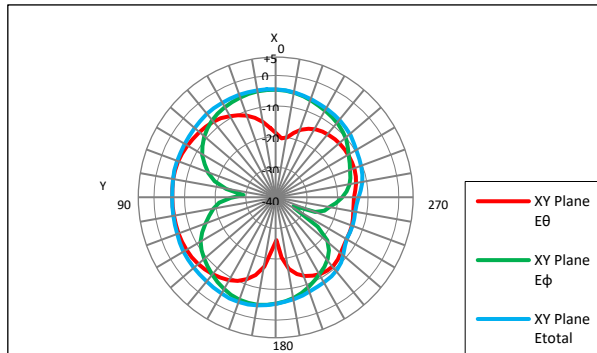
Unit [dBi]

Cellular

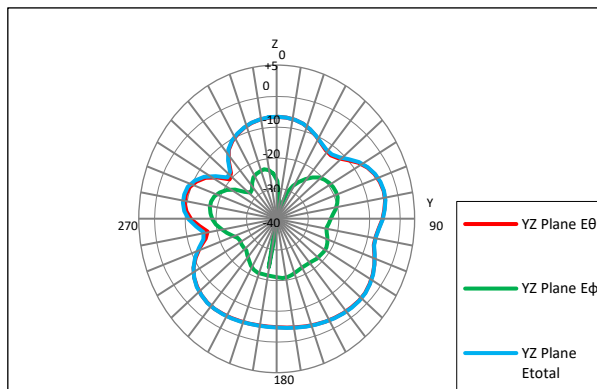
1.3 Antenna Pattern for Max Gain Plane

B3/GSM1800(1770MHz)

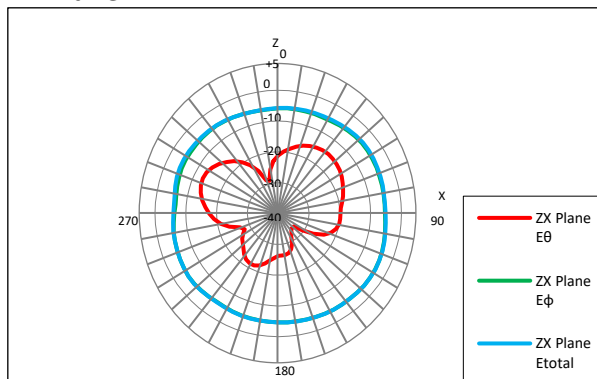
XY Plane



YZ Plane

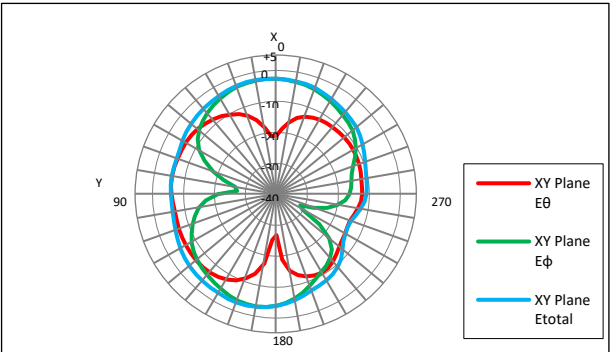


XZ Plane

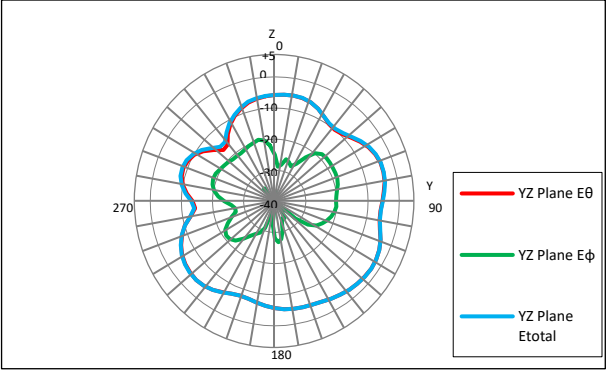


B2/GSM1900(1910MHz)

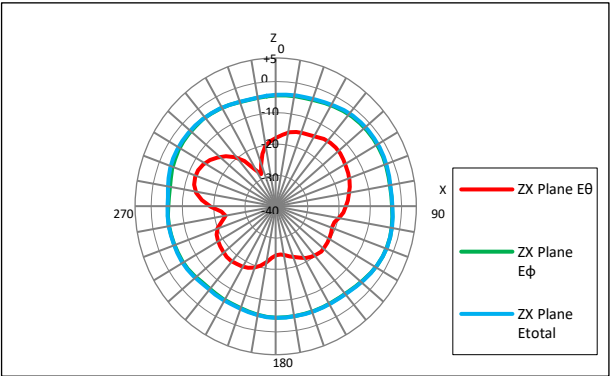
XY Plane



YZ Plane

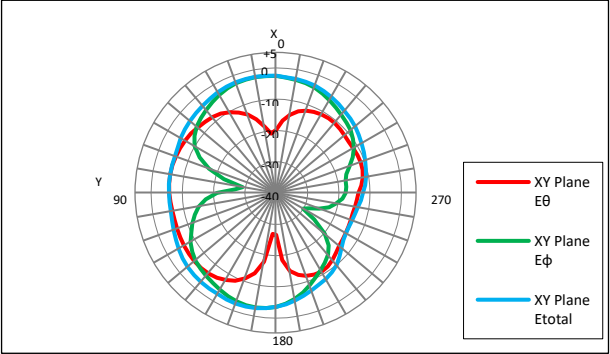


XZ Plane

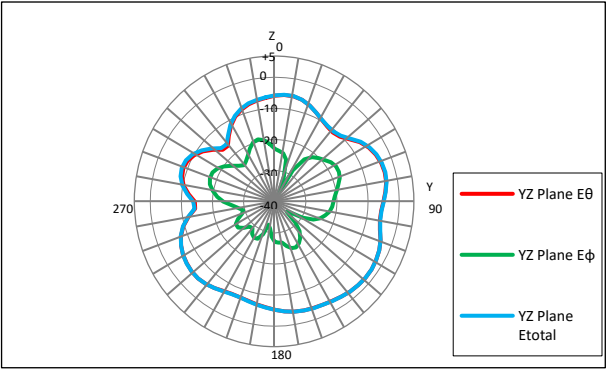


B1(1950MHz)

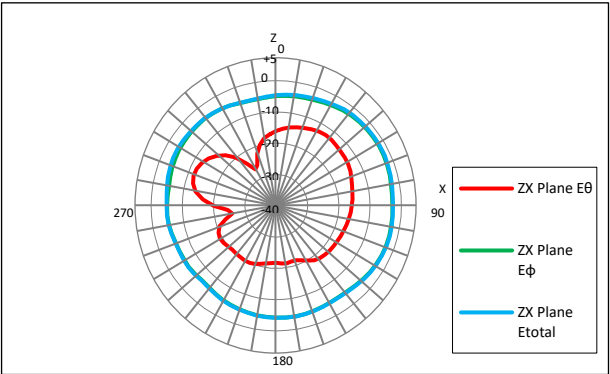
XY Plane



YZ Plane

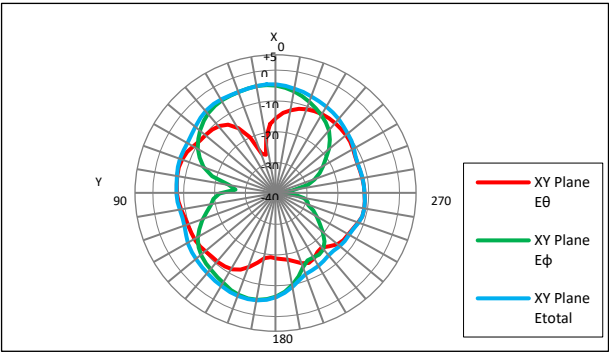


XZ Plane

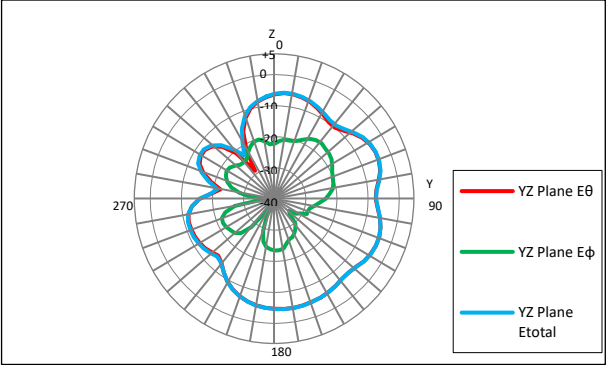


B40(2300MHz)

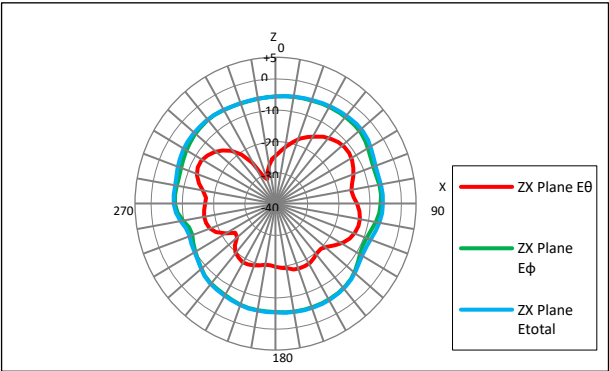
XY Plane



YZ Plane

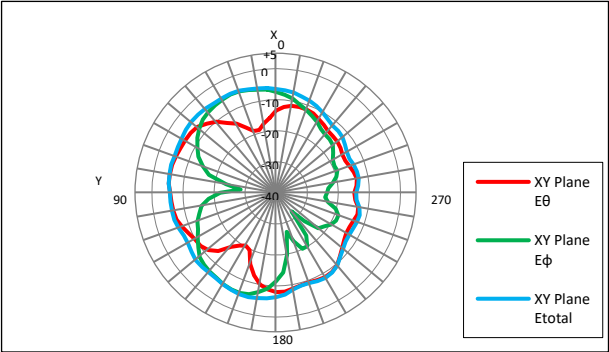


XZ Plane

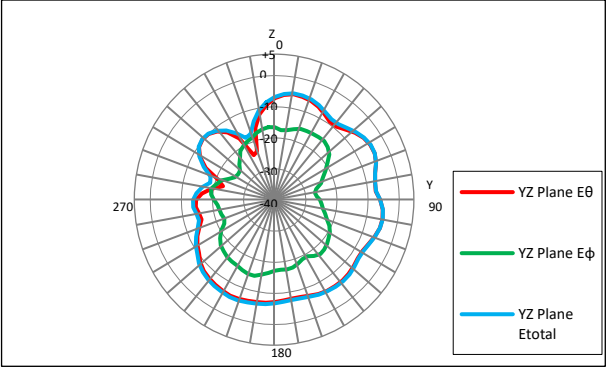


B7/B41(2690MHz)

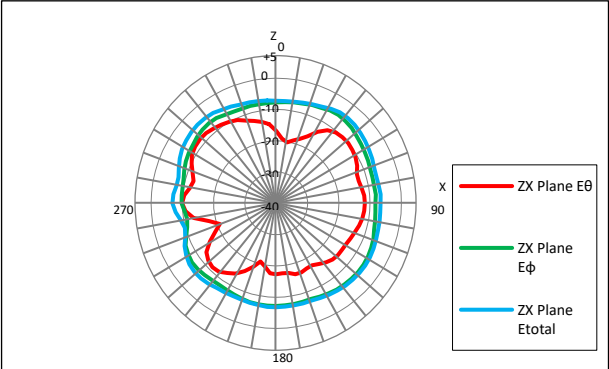
XY Plane



YZ Plane

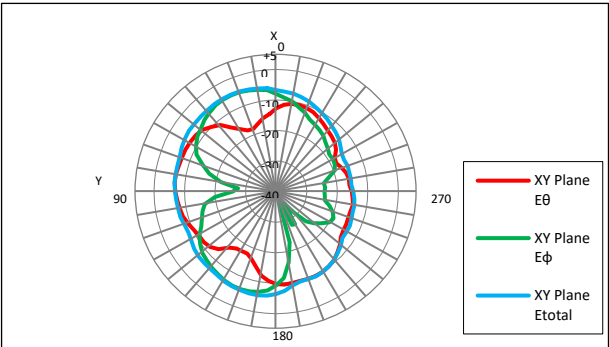


XZ Plane

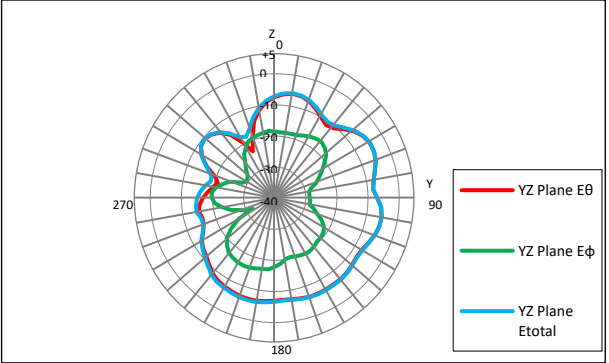


B38(2620MHz)

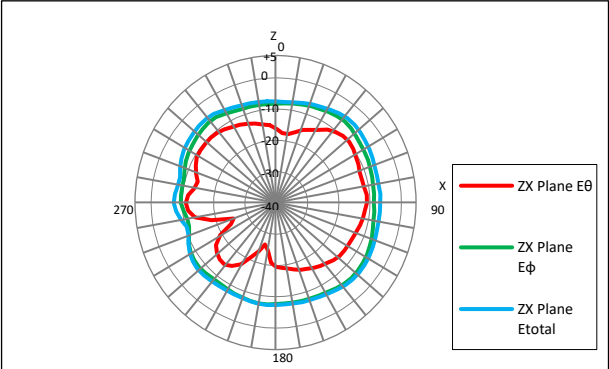
XY Plane



YZ Plane

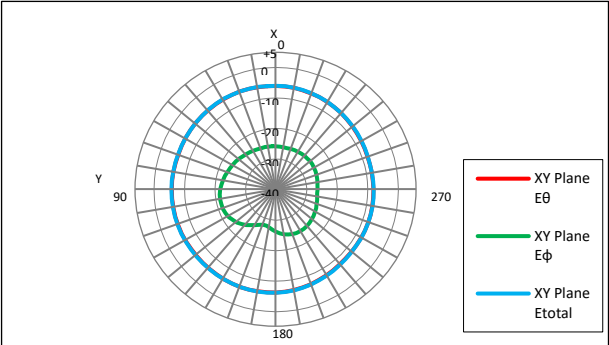


XZ Plane

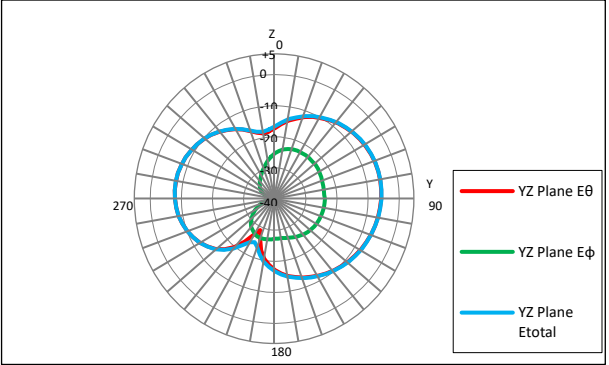


B12/B17(716MHz)

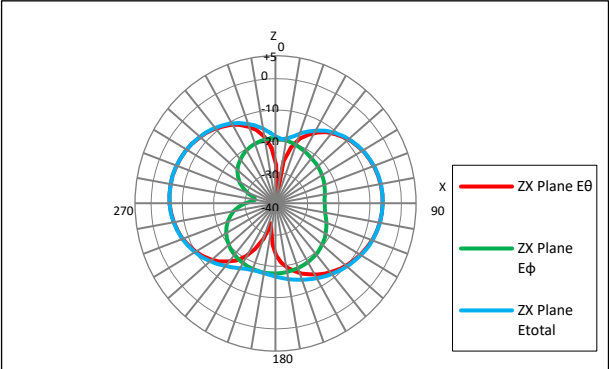
XY Plane



YZ Plane

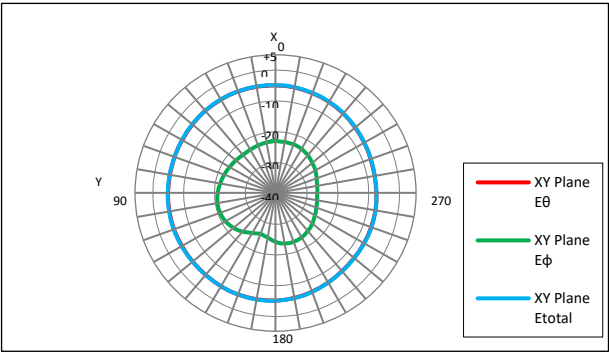


XZ Plane

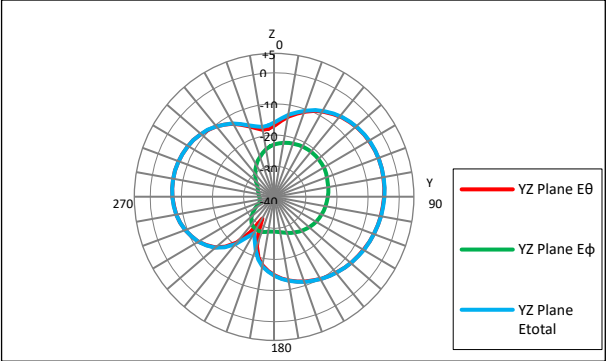


B28(748MHz)

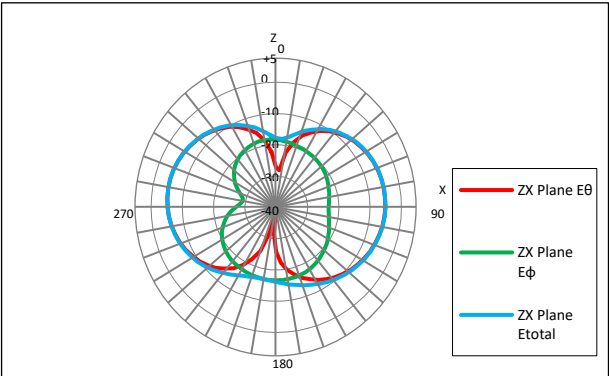
XY Plane



YZ Plane

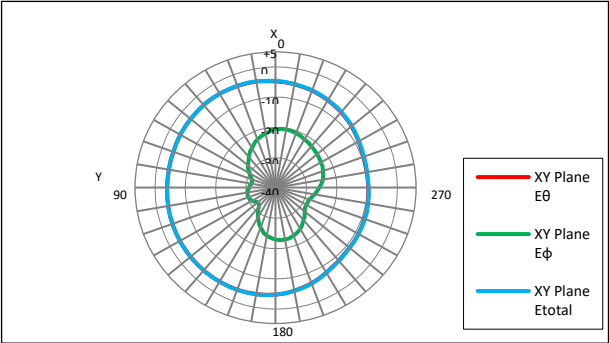


XZ Plane

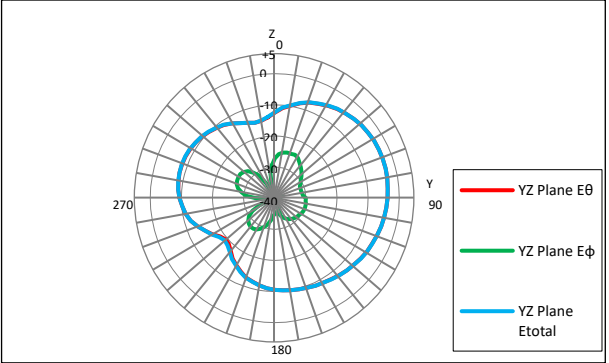


B5/GSM850(849MHz)

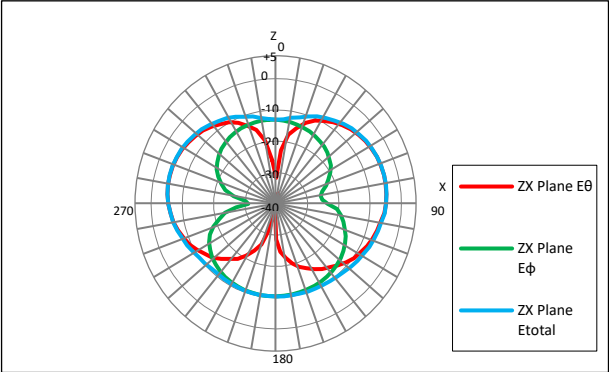
XY Plane



YZ Plane

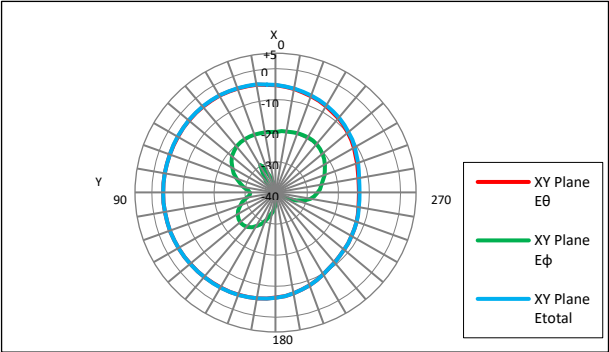


XZ Plane

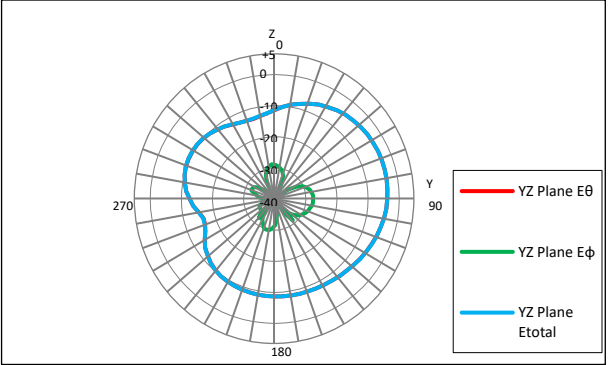


B8/GSM900(915MHz)

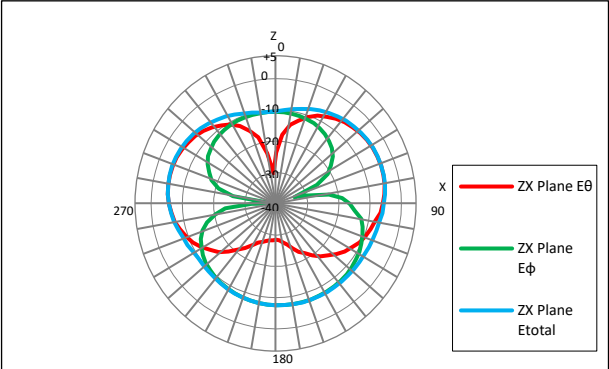
XY Plane



YZ Plane

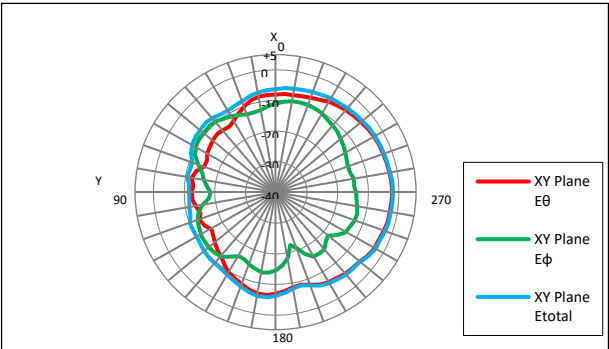


XZ Plane

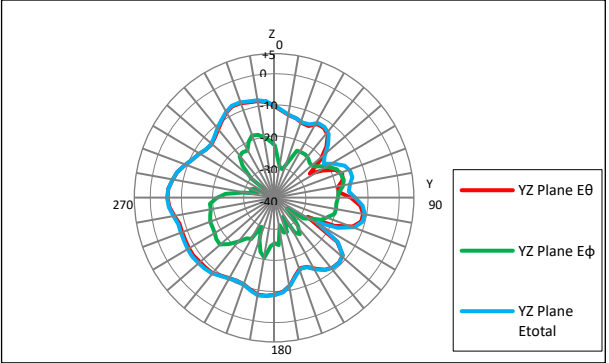


B78(3480MHz)

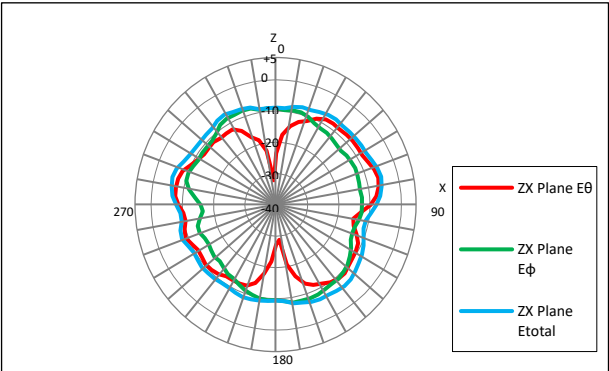
XY Plane



YZ Plane



XZ Plane

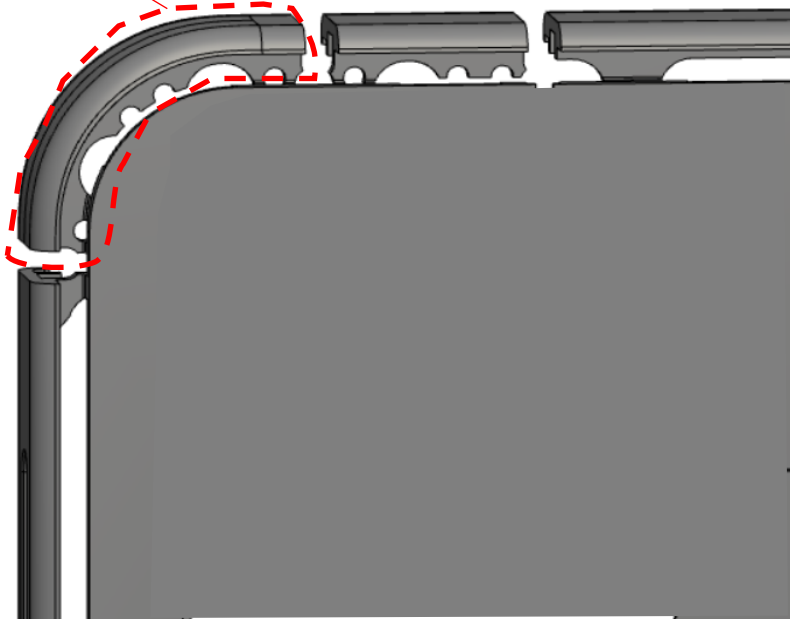


WiFi

2.1 Antenna Photos

WiFi ANT
(ANT7)

Figure 2



2.2 Antenna Gain

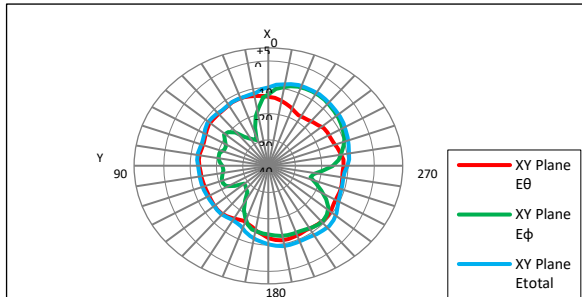
WiFi ANT (ANT7)			
Frequency	Plane	2460	5210
Peak Gain	XY	-6.7	-2.8
	YZ	-2.1	-3.8
	XZ	-1.9	-0.4
Avg. Gain	XY	-10.1	-7.0
	YZ	-7.6	-8.2
	XZ	-6.1	-5.9

Unit [dBi]

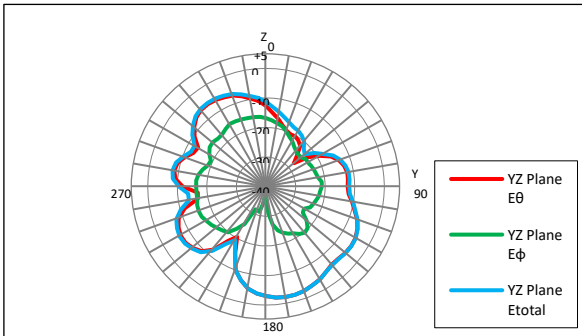
2.3 Antenna Pattern for Max Gain Plane

WiFi ANT (2460MHz)

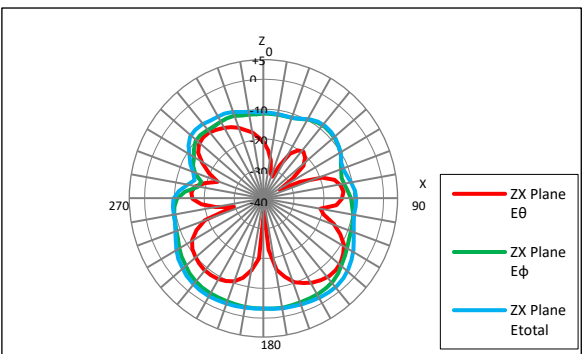
XY Plane



YZ Plane

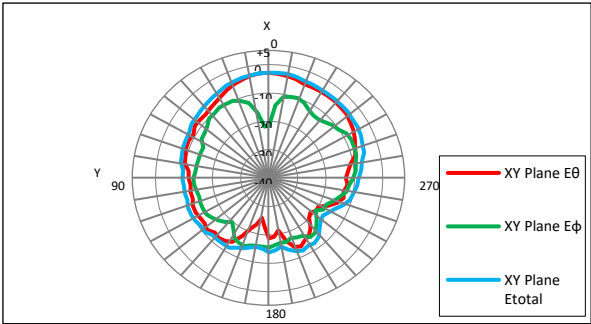


XZ Plane

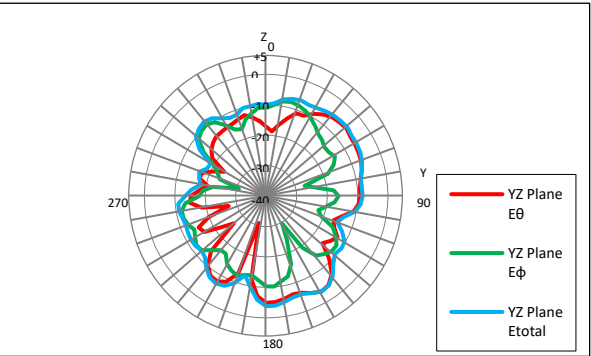


WiFi ANT (5210MHz)

XY Plane



YZ Plane



XZ Plane

