

Data Sheet

CUSTOMER: ASUS

MODEL NAME: B7402

CUSTOMER P/N: 14008-04680300

ICT P/N: LA9RF340-CS-H

APPROVED	
MANUFACTURER	CUSTOMER
<i>PREPARED BY:</i>	<i>APPROVED BY:</i>
<i>CHECK BY:</i>	
<i>APPROVED BY:</i>	

Description

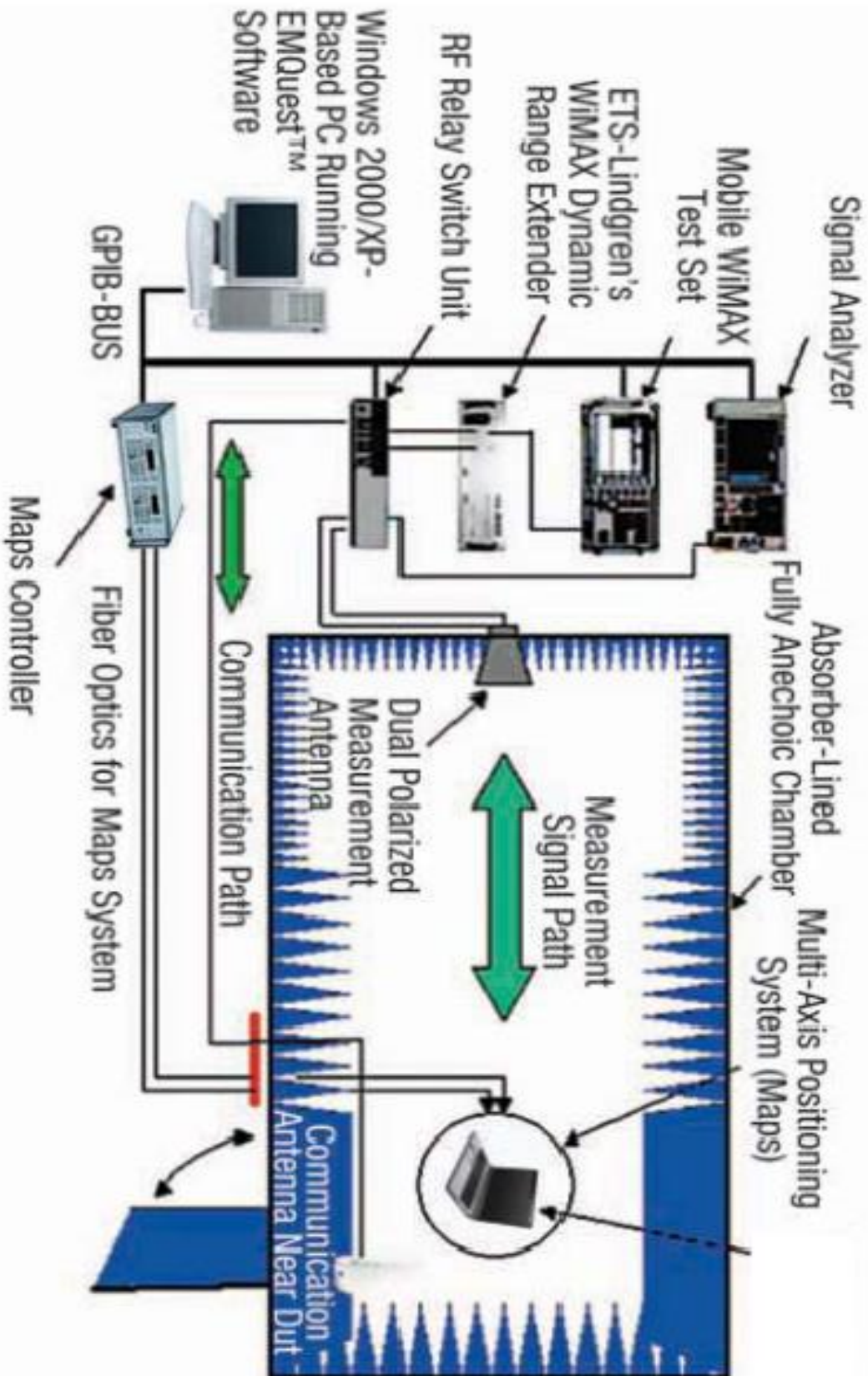
Specifications

ANT1 (M1) Antenna

Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Frequency (MHz)	Cable Loss (dB)	PEAK GAIN (including cable loss) (dBi)	TX PEAK GAIN (dBi)	
14008-04680300	LUXSHARE-ICT.	CoupleType FPCB ANTENNA ANT1 (M1)	1. Cable P/N: 012-323H-0020 2. Diameter:1.13mm 50 ohm coaxial cable 3.Cable length: 161 mm 4. Connector P/N: IPEX 20565-001R-13	WCDMA I Band 1 NR Band 1	1920	0.34	1.99	1.99
					1950	0.35	1.93	
					1980	0.35	1.10	
				WCDMA II Band 2 NR Band 2	1850	0.34	1.23	1.51
					1880	0.34	1.18	
					1910	0.34	1.51	
				Band 3 NR Band 3	1710	0.32	1.31	1.88
					1748	0.33	1.45	
					1785	0.33	1.88	
				WCDMA IV Band 4	1710	0.32	1.31	1.57
					1733	0.33	1.29	
					1755	0.33	1.57	
				WCDMA V Band 5 NR Band 5	824			
					837			
					849			
				Band 7 NR Band 7	2500	0.39	1.22	1.61
					2535	0.40	1.61	
					2570	0.40	1.06	
				WCDMA VIII Band 8 NR Band 8	880			
					898			
					915			
Band 12	698							
	708							
	716							

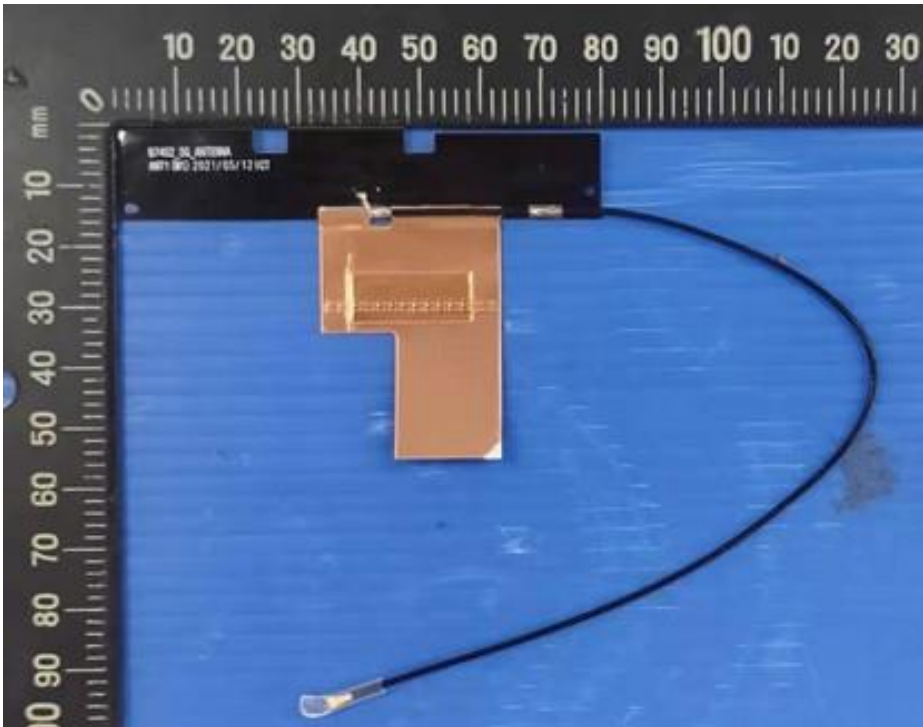
Band 13	777			
	782			
	787			
Band 14	788			
	793			
	798			
Band 17	704			
	710			
	716			
Band 18	815			
	823			
	830			
Band 19	830			
	838			
	845			
Band 20 NR Band 20	832			
	847			
	862			
Band 25	1850	0.34	1.23	1.77
	1883	0.34	1.64	
	1915	0.34	1.77	
Band 26	814			
	832			
	849			
Band 28 NR Band 28	703			
	726			
	748			
Band 30	2305	0.38	1.14	1.27
	2310	0.38	1.27	
	2315	0.38	1.20	
Band 34	2010	0.35	1.93	1.93
	2018	0.35	1.72	
	2025	0.35	1.71	
Band 38 NR Band 38	2570	0.40	1.06	1.55
	2595	0.40	1.55	

					2620	0.41	1.51	
				Band 39	1880	0.34	1.18	1.99
					1900	0.34	1.94	
					1920	0.34	1.99	
				Band 40 NR Band 40	2300	0.38	1.91	1.91
					2350	0.38	1.62	
					2400	0.39	1.73	
				Band 41 NR Band 41	2496	0.39	1.57	1.98
					2593	0.40	1.97	
					2690	0.41	1.98	
				Band 42	3400	0.47	1.85	1.85
					3500	0.48	1.52	
					3600	0.49	1.80	
				Band 43	3600	0.49	1.80	1.80
					3700	0.49	1.60	
					3800	0.50	1.14	
				Band 48 NR Band 48	3550	0.48	1.75	1.89
					3625	0.49	1.89	
					3700	0.49	1.60	
				Band 66 NR Band 66	1710	0.32	1.31	1.75
					1745	0.33	1.45	
					1780	0.33	1.75	
				NR Band 77	3300	0.46	1.58	1.91
					3750	0.50	1.39	
					4200	0.53	1.91	
				NR Band 78	3300	0.46	1.58	1.75
					3550	0.48	1.75	
					3800	0.50	1.14	
				NR Band 79	4400	0.54	1.10	1.82
					4700	0.56	1.08	
					5000	0.58	1.82	

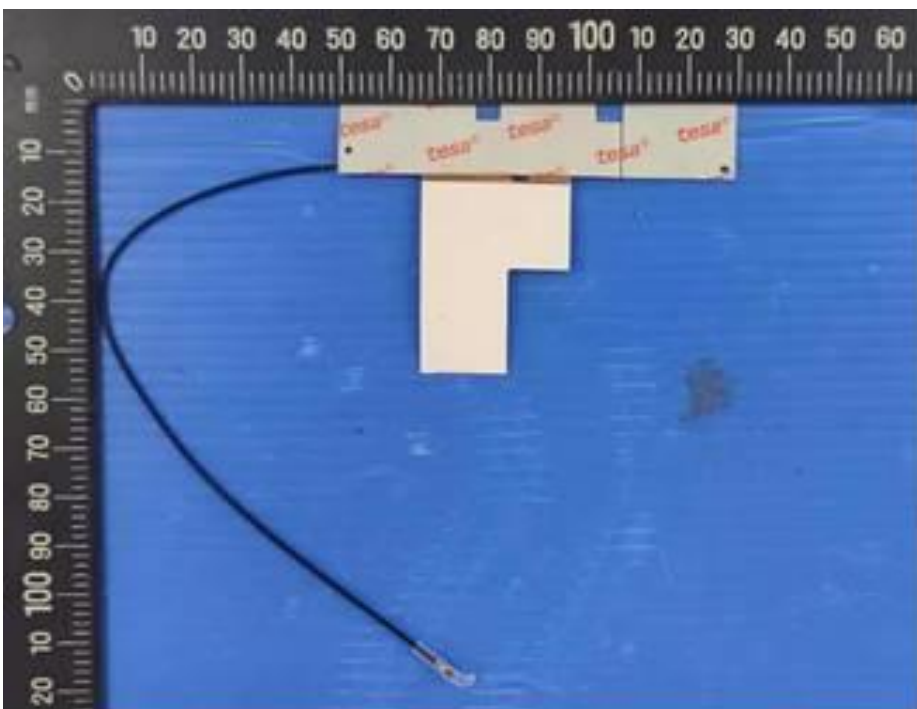


Description

Antenna Picture1:

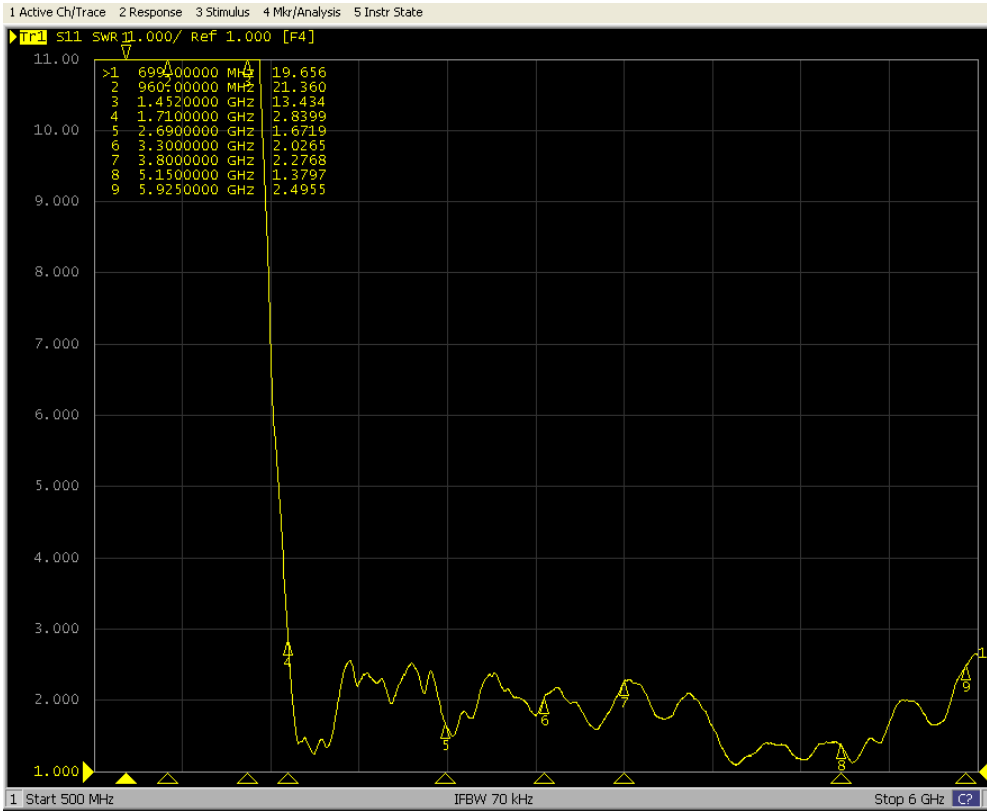


Antenna Picture2

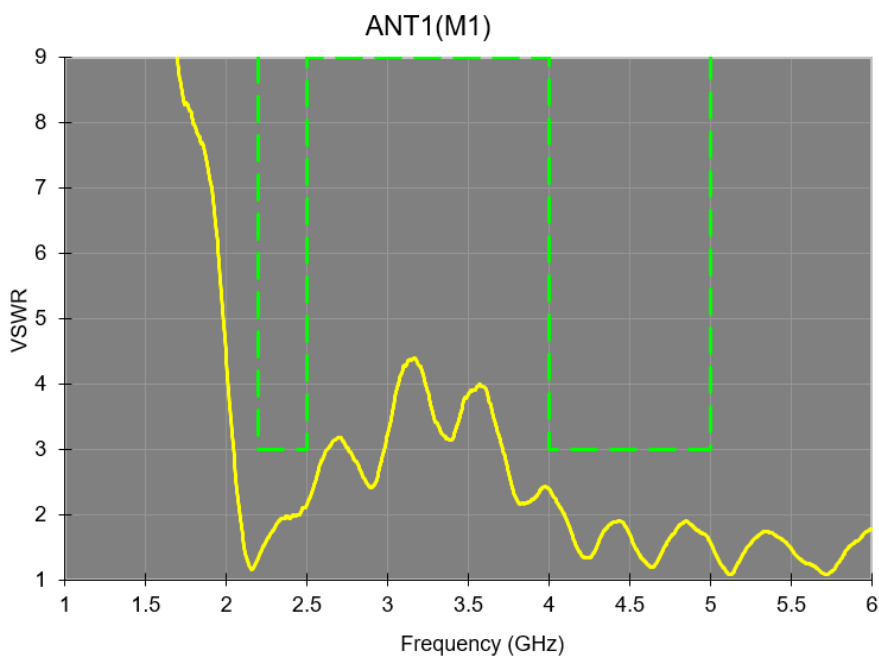


Performance Data

1. VSWR



2. SPEC



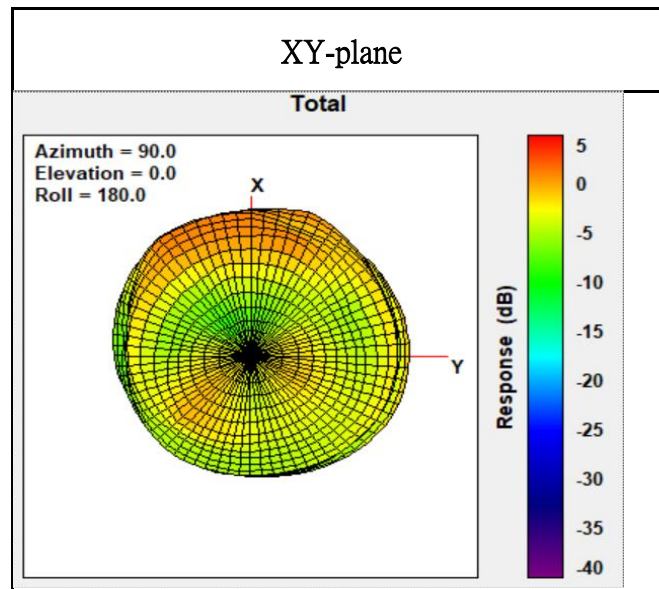
Spec:

2.20 ~ 2.50 GHz < 3

4.00 ~ 5.00 GHz < 3

Radiation characteristic in 1920MHz ~ 1980MHz (WCDMA I ,Band 1, NR Band 1)

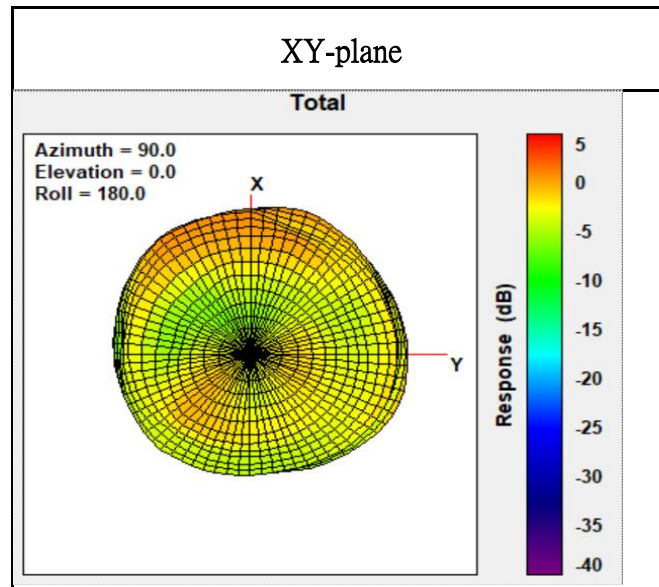
Antenna: 1920MHz



Center Frequency	1920 MHz
Three-dimensional (dBi) peak	1.99

Radiation characteristic in 1850MHz ~ 1910MHz (WCDMA II ,Band 2 ,NR Band 2)

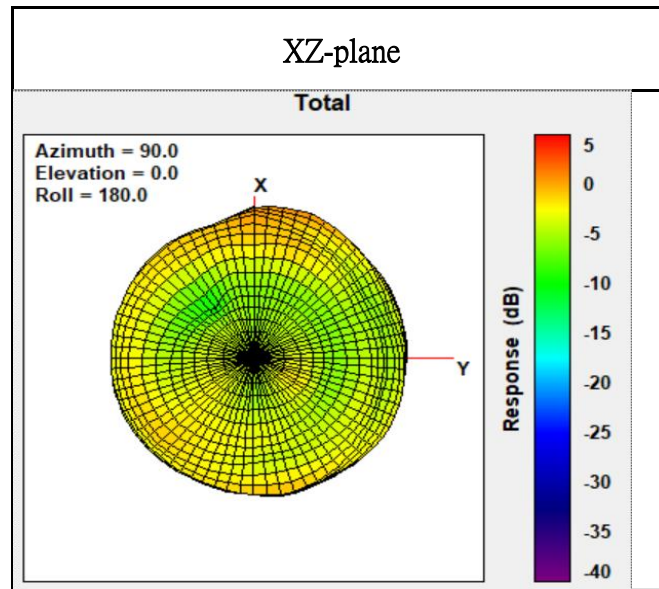
Antenna: 1910MHz



Center Frequency	1910 MHz
Three-dimensional (dBi) peak	1.51

Radiation characteristic in 1710MHz ~ 1785MHz (Band 3 ,NR Band 3)

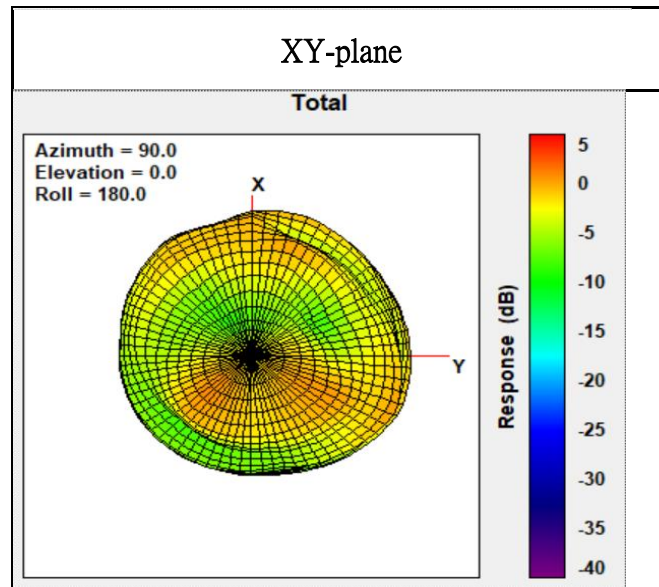
Antenna: 1785MHz



Center Frequency	1785 MHz
Three-dimensional (dBi) peak	1.88

Radiation characteristic in 1710MHz ~ 1755MHz (WCDMA IV ,Band 4)

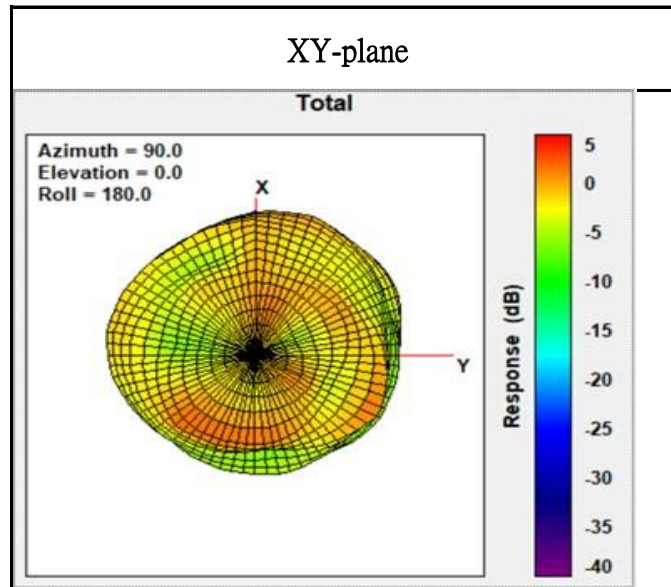
Antenna: 1755MHz



Center Frequency	1755 MHz
Three-dimensional (dBi) peak	1.57

Radiation characteristic in 2500MHz ~ 2570MHz (Band 7 ,NR Band 7)

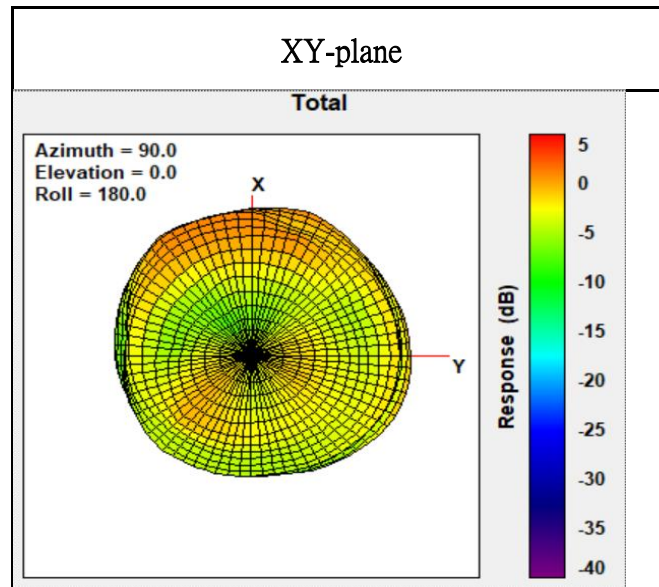
Antenna: 2535MHz



Center Frequency	2535 MHz
Three-dimensional (dBi) peak	1.61

Radiation characteristic in 1850MHz ~ 1915MHz (Band 25)

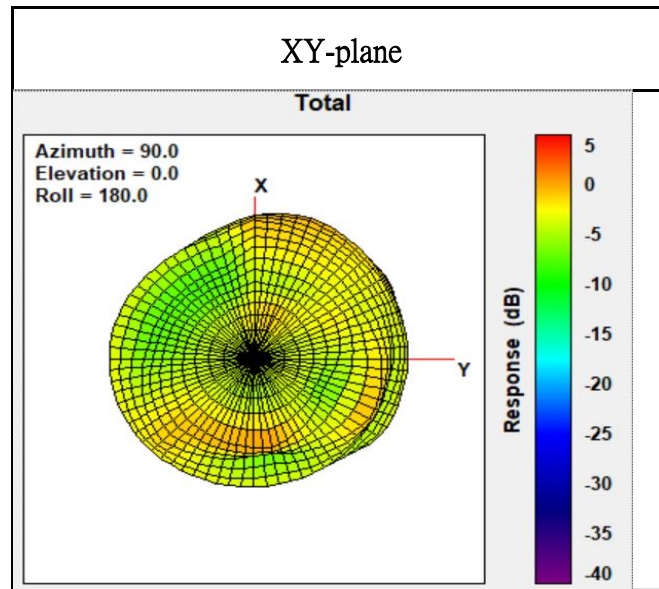
Antenna: 1915MHz



Center Frequency	1915 MHz
Three-dimensional (dBi) peak	1.77

Radiation characteristic in 2305MHz ~ 2315MHz (Band 30)

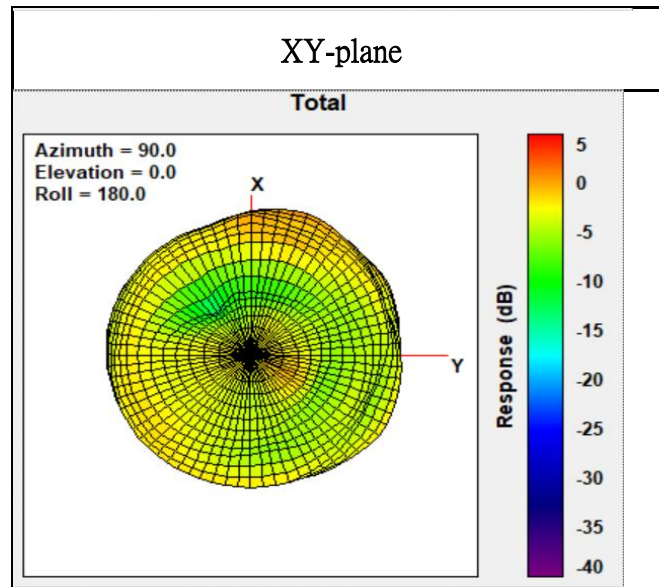
Antenna: 2310MHz



Center Frequency	2310 MHz
Three-dimensional (dBi) peak	1.27

Radiation characteristic in 2010MHz ~ 2025MHz (Band 34)

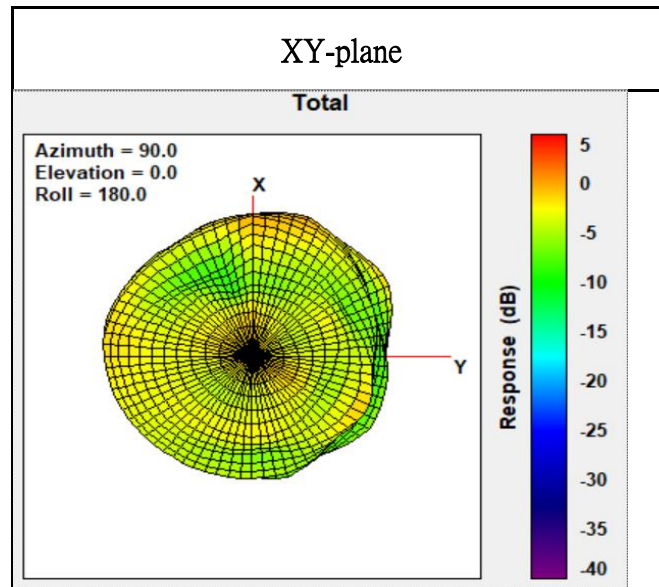
Antenna: 2010MHz



Center Frequency	2010 MHz
Three-dimensional (dBi) peak	1.93

Radiation characteristic in 2570MHz ~ 2620MHz (Band 38, NR Band 38)

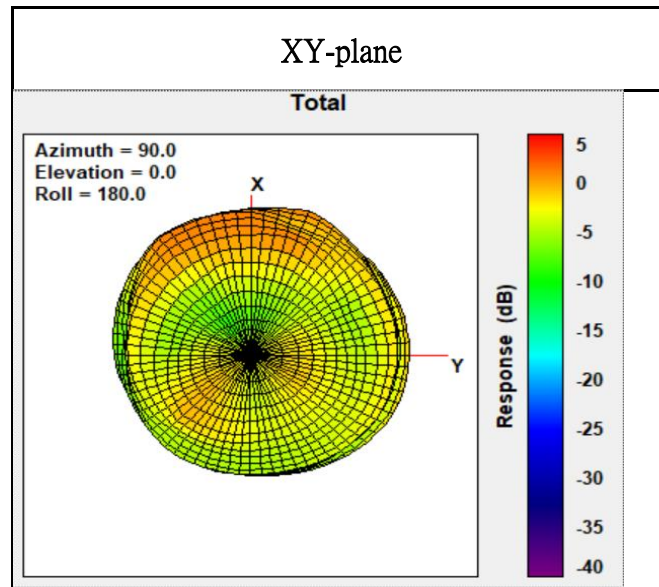
Antenna: 2595MHz



Center Frequency	2595 MHz
Three-dimensional (dBi) peak	1.55

Radiation characteristic in 1880MHz ~ 1920MHz (Band 39)

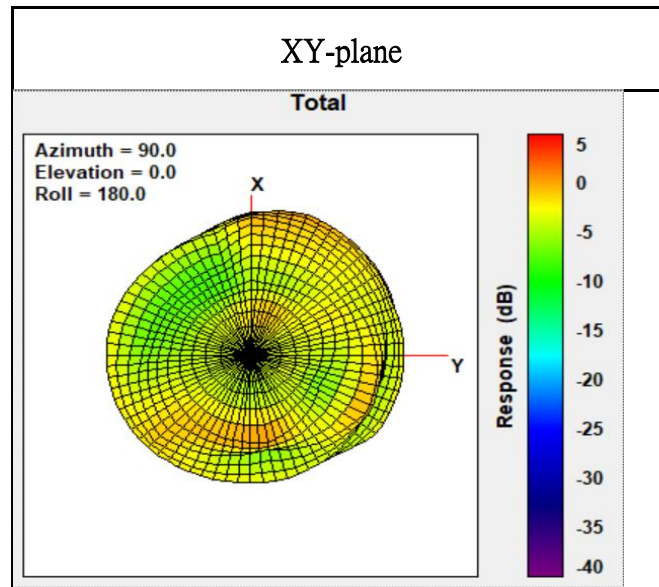
Antenna: 1920MHz



Center Frequency	1920 MHz
Three-dimensional (dBi) peak	1.99

Radiation characteristic in 2300MHz ~ 2350MHz (Band 40, NR Band 40)

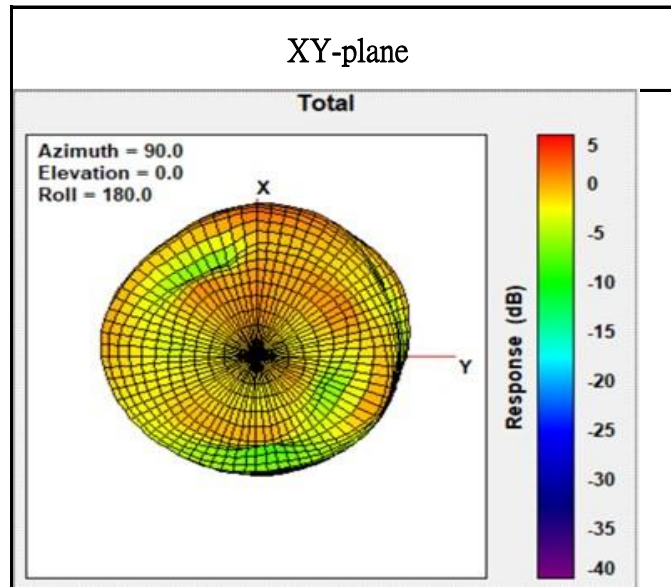
Antenna: 2300MHz



Center Frequency	2300 MHz
Three-dimensional (dBi) peak	1.91

Radiation characteristic in 2496MHz ~ 2690MHz (Band 41, NR Band 41)

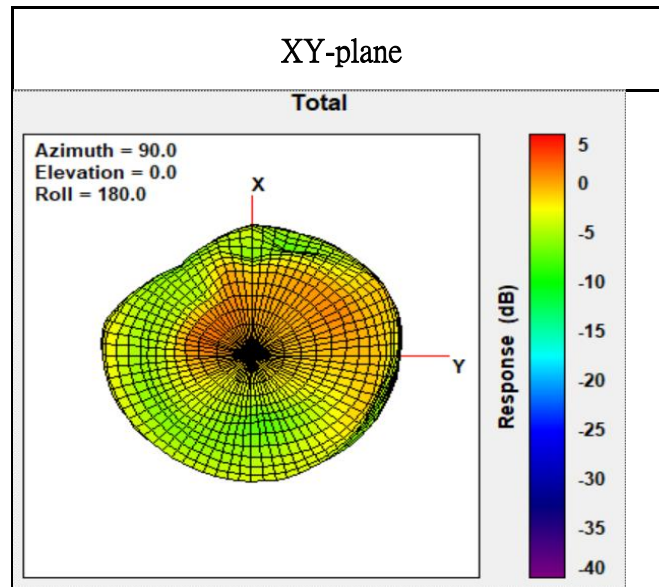
Antenna: 2690MHz



Center Frequency	2690 MHz
Three-dimensional (dBi) peak	1.98

Radiation characteristic in 3400MHz ~ 3600MHz (Band 42)

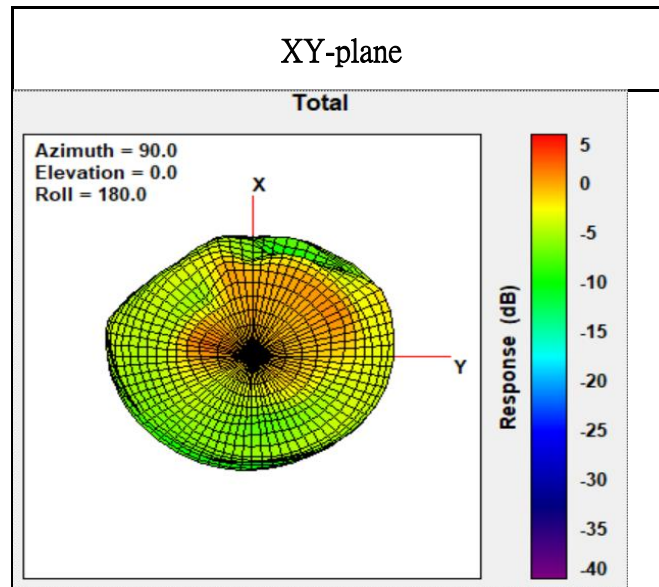
Antenna: 3400MHz



Center Frequency	3400 MHz
Three-dimensional (dBi) peak	1.85

Radiation characteristic in 3600MHz ~ 3800MHz (Band 43)

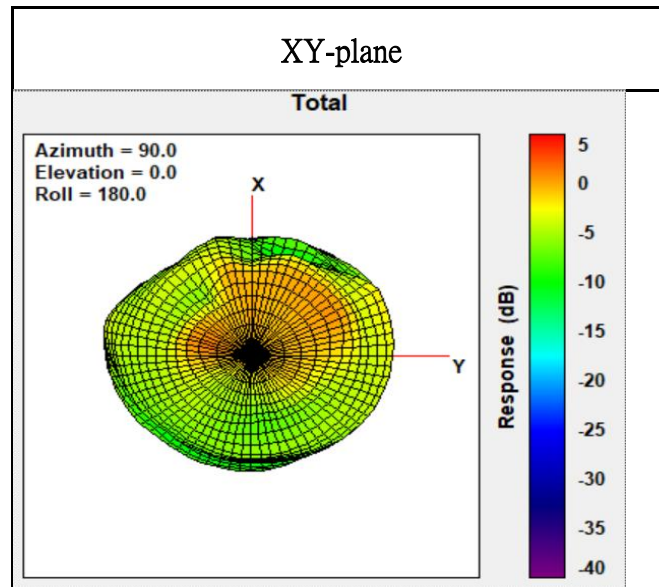
Antenna: 3600MHz



Center Frequency	3600 MHz
Three-dimensional (dBi) peak	1.80

Radiation characteristic in 3550MHz ~ 3700MHz (Band 48, NR Band 48)

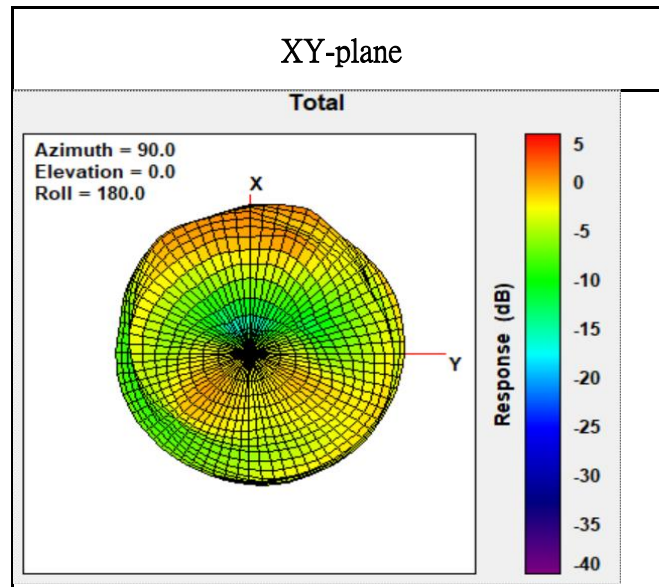
Antenna: 3625MHz



Center Frequency	3625 MHz
Three-dimensional (dBi) peak	1.89

Radiation characteristic in 1710MHz ~ 1780MHz (Band 66, NR Band 66)

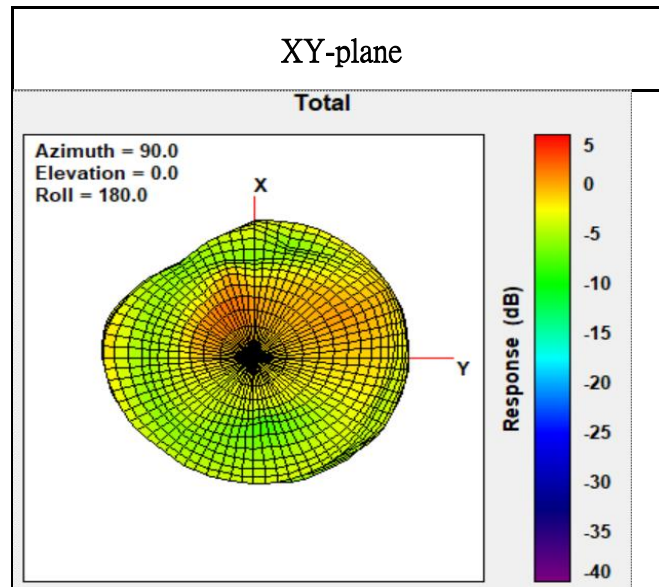
Antenna: 1780MHz



Center Frequency	1780 MHz
Three-dimensional (dBi) peak	1.75

Radiation characteristic in 3300MHz ~ 4200MHz (NR Band 77)

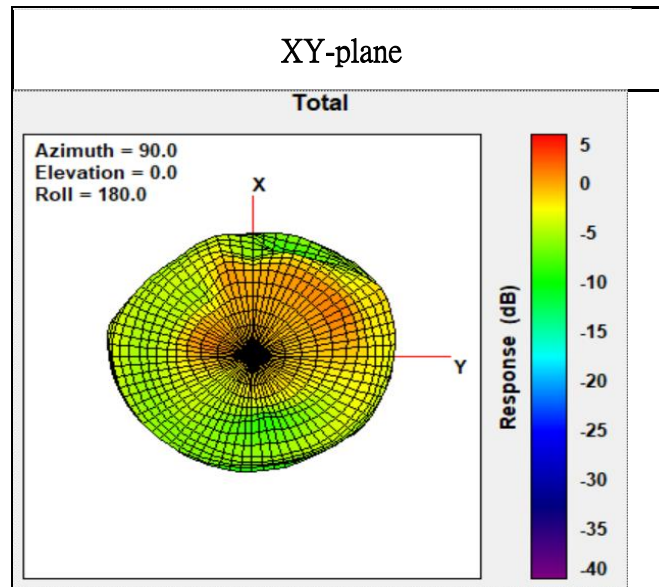
Antenna: 4200MHz



Center Frequency	4200 MHz
Three-dimensional (dBi) peak	1.91

Radiation characteristic in 3300MHz ~ 3800MHz (NR Band 78)

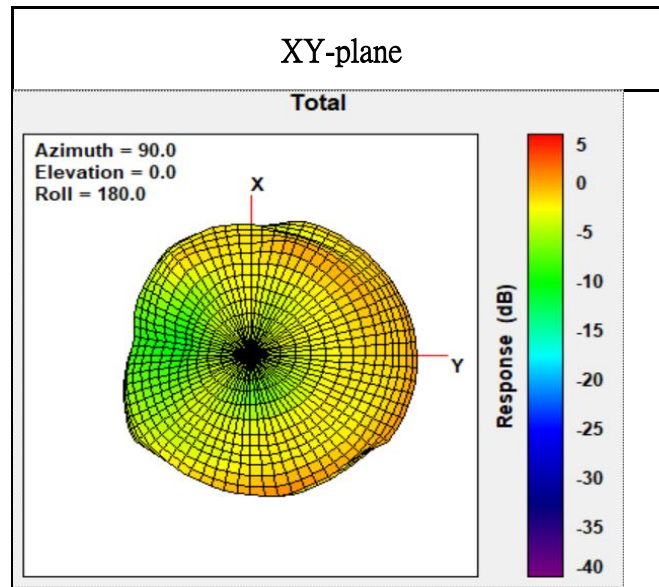
Antenna: 3550MHz



Center Frequency	3550 MHz
Three-dimensional (dBi) peak	1.75

Radiation characteristic in 4400MHz ~ 5000MHz (NR Band 79)

Antenna: 5000MHz



Center Frequency	5000 MHz
Three-dimensional (dBi) peak	1.82

Open Mode Gain Table (dBi)

	3D Peak Gain	3D Gain	Cable Loss
Frequency (MHZ)	Total (dBi)	Efficiency [%]	Loss (dBi)
1920	1.99	59.51	0.34
1950	1.93	60.14	0.35
1980	1.10	59.94	0.35
1850	1.23	56.36	0.34
1880	1.18	57.76	0.34
1910	1.51	59.03	0.34
1710	1.31	45.73	0.32
1748	1.45	51.80	0.33
1785	1.88	57.30	0.33
1710	1.31	45.73	0.32
1733	3.29	42.75	0.33
1755	3.57	54.94	0.33
2500	1.22	51.17	0.39
2535	1.61	50.76	0.40
2570	1.06	55.65	0.40
1850	1.23	56.36	0.34
1883	1.64	57.73	0.34
1915	1.77	59.69	0.34

2305	1.14	53.59	0.38
2310	1.27	52.74	0.38
2315	1.20	51.01	0.38
2010	1.93	58.77	0.35
2018	1.72	56.82	0.35
2025	1.71	55.67	0.35
2570	1.06	55.65	0.40
2595	1.55	54.96	0.40
2620	1.51	55.29	0.41
1880	1.18	57.76	0.34
1900	1.94	58.06	0.34
1920	1.99	59.51	0.34
2300	1.91	55.08	0.38
2350	1.62	58.47	0.38
2400	1.73	53.56	0.39
2496	1.57	51.80	0.39
2593	1.97	55.33	0.40
2690	1.98	59.33	0.41
3400	1.85	61.02	0.47
3500	1.52	55.78	0.48
3600	1.80	48.07	0.49
3600	1.80	48.07	0.49

3700	1.60	47.95	0.49
3800	1.14	46.68	0.50
3550	1.75	50.74	0.48
3625	1.89	46.10	0.49
3700	1.60	47.95	0.49
1710	1.31	45.73	0.32
1745	1.45	51.34	0.33
1780	1.75	57.33	0.33
3300	1.58	63.99	0.46
3750	1.39	46.96	0.50
4200	1.91	50.71	0.53
3300	1.58	63.99	0.46
3550	1.75	50.74	0.48
3800	1.14	46.68	0.50
4400	1.10	59.54	0.54
4700	1.08	58.34	0.56
5000	1.82	61.59	0.58

Assembly Drawing

