

Antenna Specification

(Rev 3)

Antenna Manufacturer's Name	NEC Platforms, Ltd.
Antenna Manufacturer's Address	800 Shimomata, Kakegawa-shi, Shizuoka 〒436-8501, Japan

3. Antenna specification

3.1. WAN(WCDMA/LTE)

Antenna name	Parameter	Specification		Note
ANT1	Support band	B5, B12, B19, B28		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B5	-1.5dBi	Fig. 1
		B12	-2.8dBi	Fig. 2
		B19	-1.5dBi	Fig. 3
		B28	-2.5dBi	Fig. 4
ANT2	Support band	B5, B12, B19, B28		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B5	-2.0dBi	Fig. 5
		B12	-6.6dBi	Fig. 6
		B19	-2.2dBi	Fig. 7
		B28	-4.0dBi	Fig. 8
ANT3	Support band	B1, B2, B3, B4, B38, B41, B42		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B1	+2.3dBi	Fig. 9
		B2	+2.0dBi	Fig. 10
		B3	+2.4dBi	Fig. 11
		B4	+2.4dBi	Fig. 12
		B38	+2.2dBi	Fig. 13
		B41	+2.2dBi	Fig. 14
		B42	+2.6dBi	Fig. 15
ANT4	Support band	B42		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B42	+1.2dBi	Fig. 16
ANT5	Support band	B42		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B42	+2.6dBi	Fig. 17
ANT6	Support band	B42		
	Type	Inverted F Antenna (Omni-directional)		
	Impedance	50ohm		
	Gain	B42	+1.6dBi	Fig. 18

3.2. WLAN

Antenna name	Parameter	Specification	Note
WLAN0	Support band	2400MHz ~ 2484MHz	Used in Bluetooth
	Type	Inverted F Antenna (Omni-directional)	
	Impedance	50ohm	
	Gain	-1.3dBi	Fig. 19
WLAN1	Support band	2400MHz ~ 2484MHz	
	Type	Inverted F Antenna (Omni-directional)	
	Impedance	50ohm	
	Gain	+0.2dBi	Fig. 20

4. Radiation Pattern & Peak Gain

4.1.1 ANT1

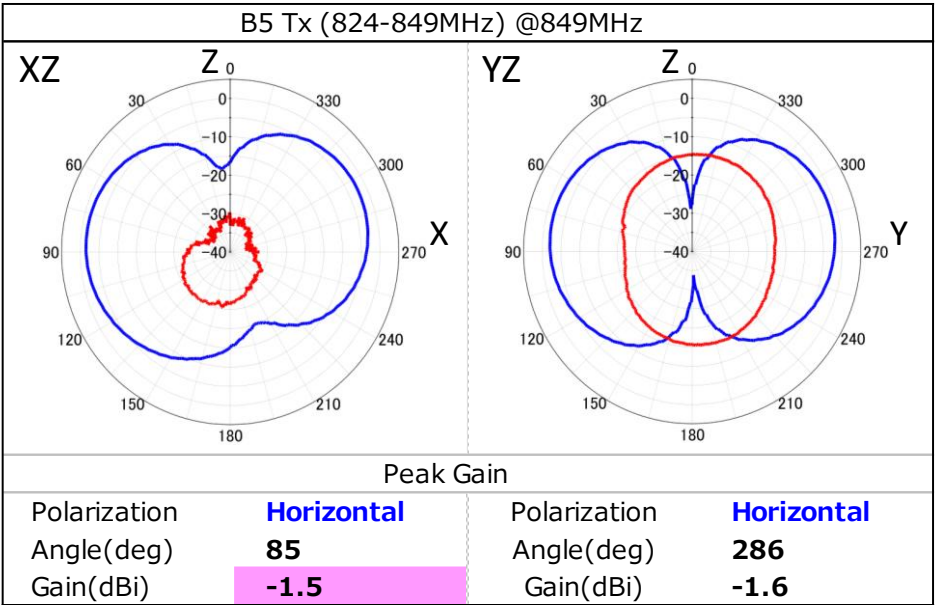


Fig. 1

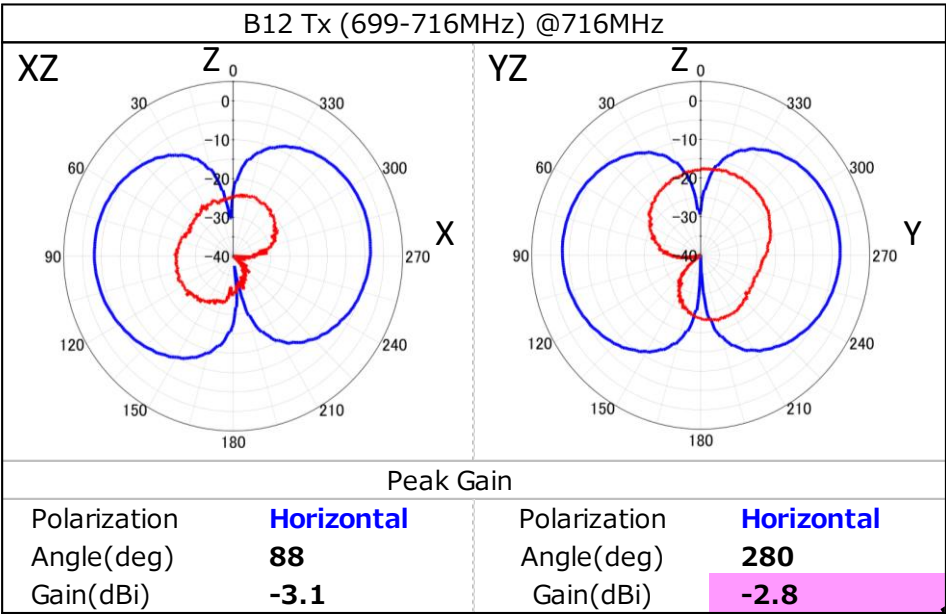


Fig. 2

— Horizontal — Vertical

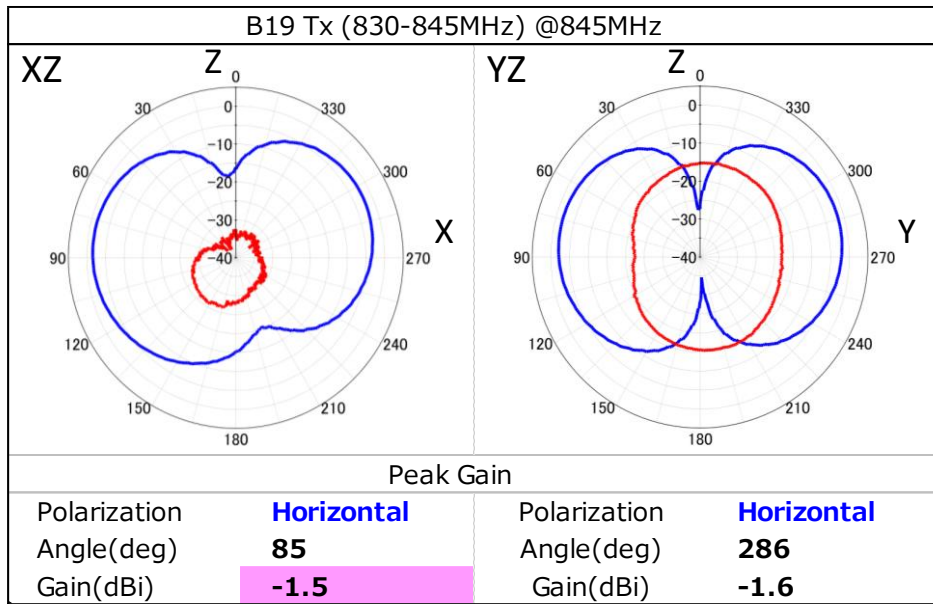


Fig. 3

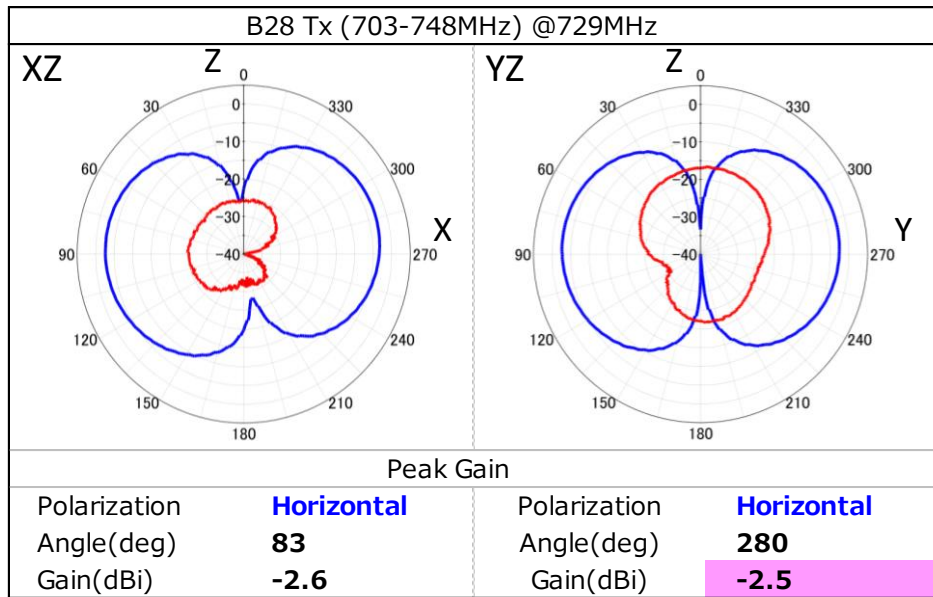


Fig. 4

4.1.2 ANT2

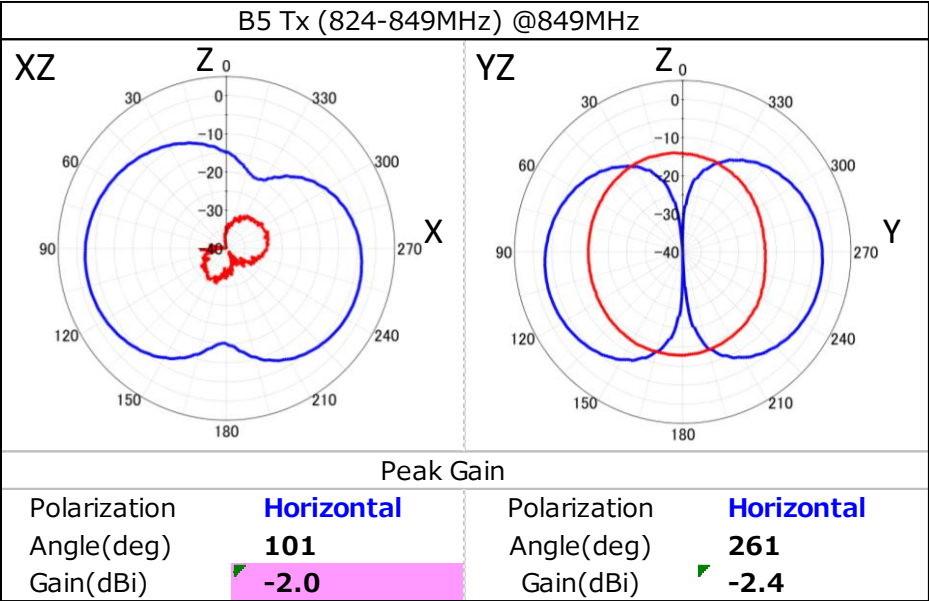


Fig. 5

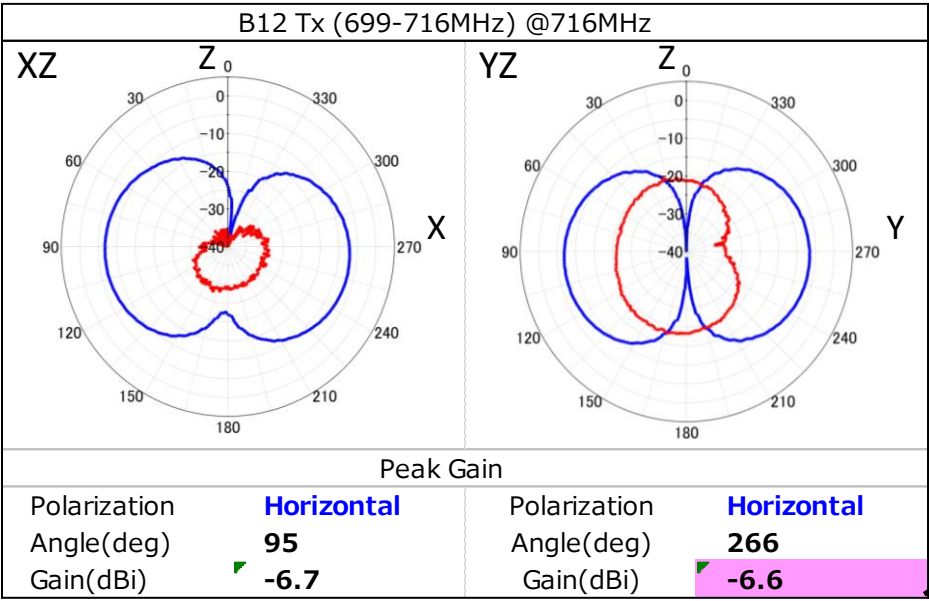


Fig. 6

— Horizontal — Vertical

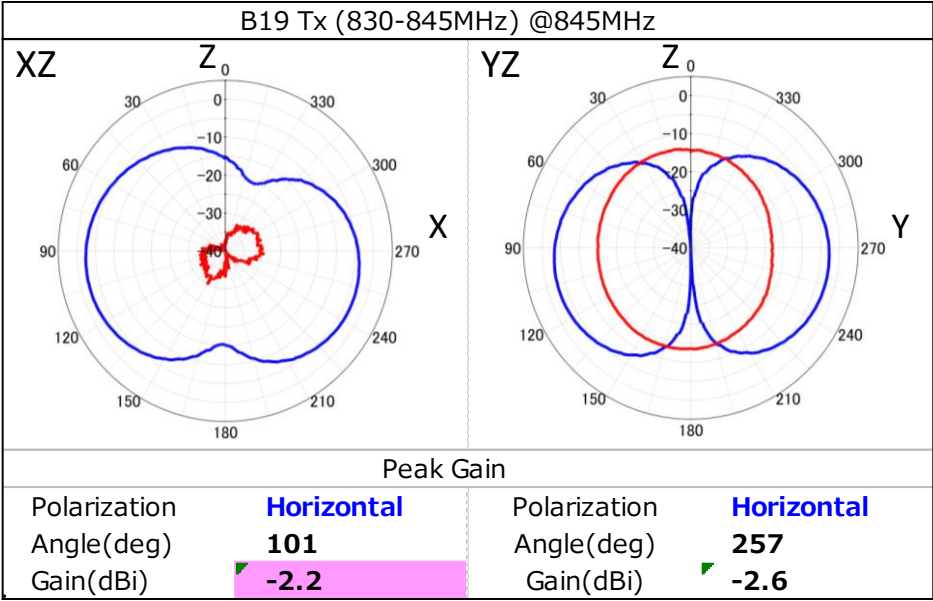


Fig. 7

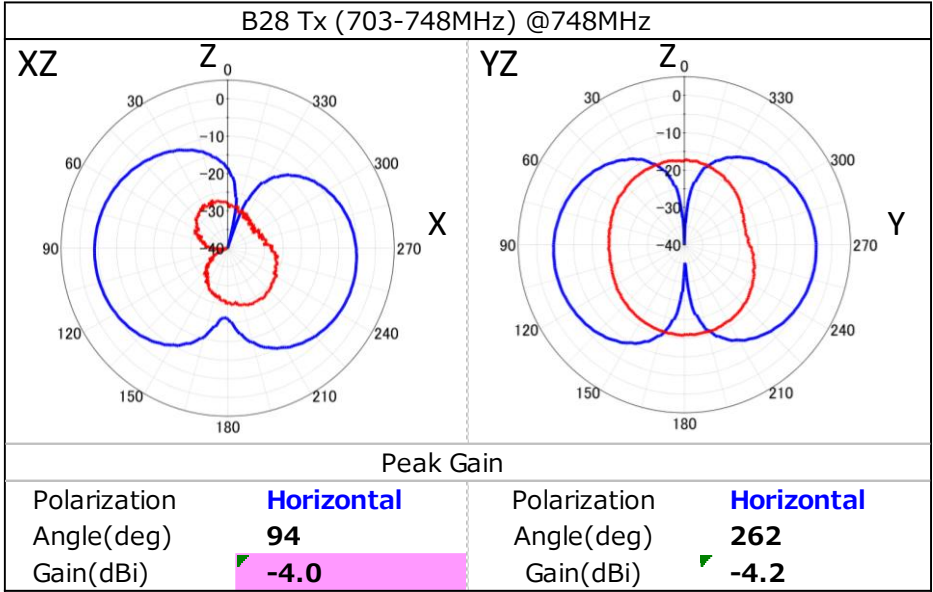


Fig. 8

4.1.3 ANT3

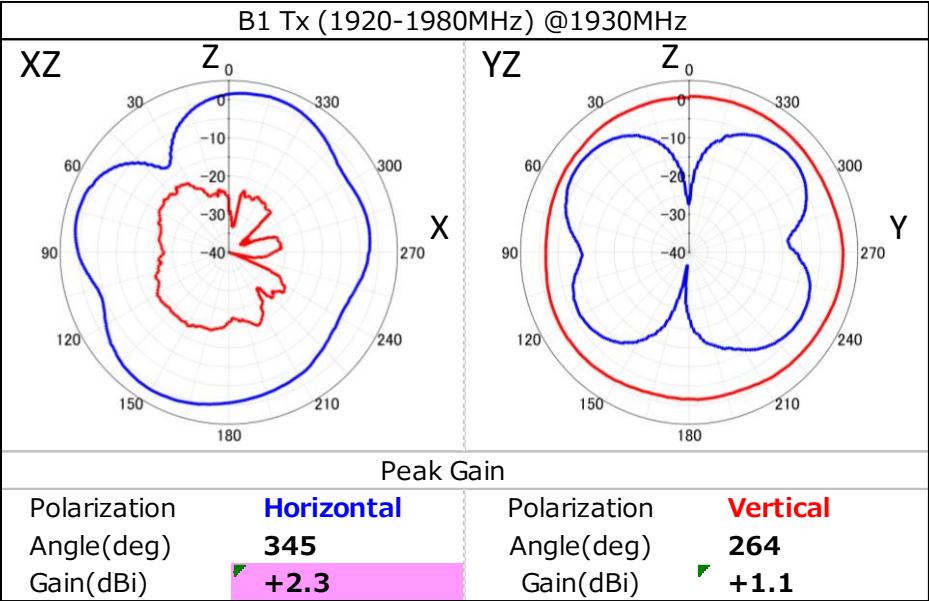


Fig. 9

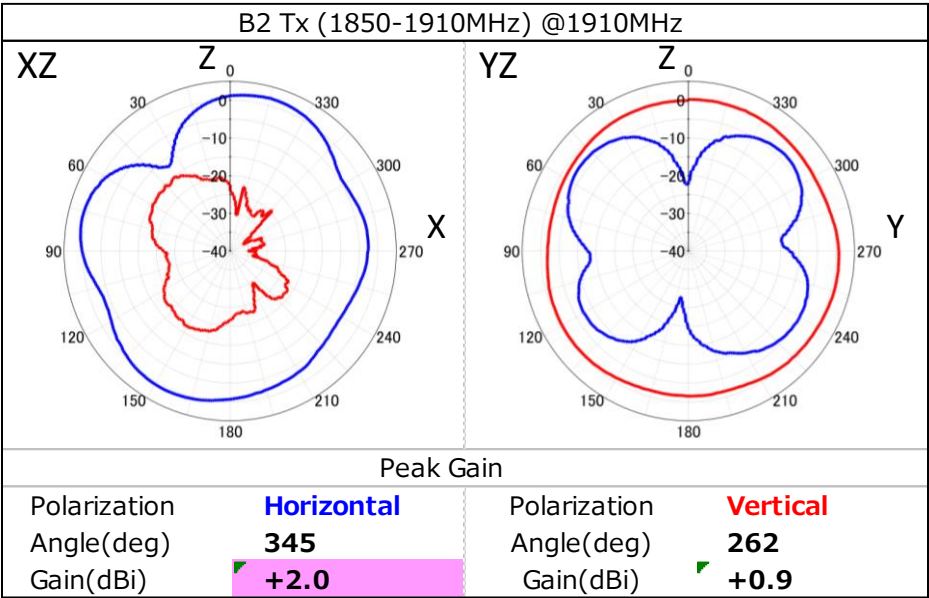


Fig. 10

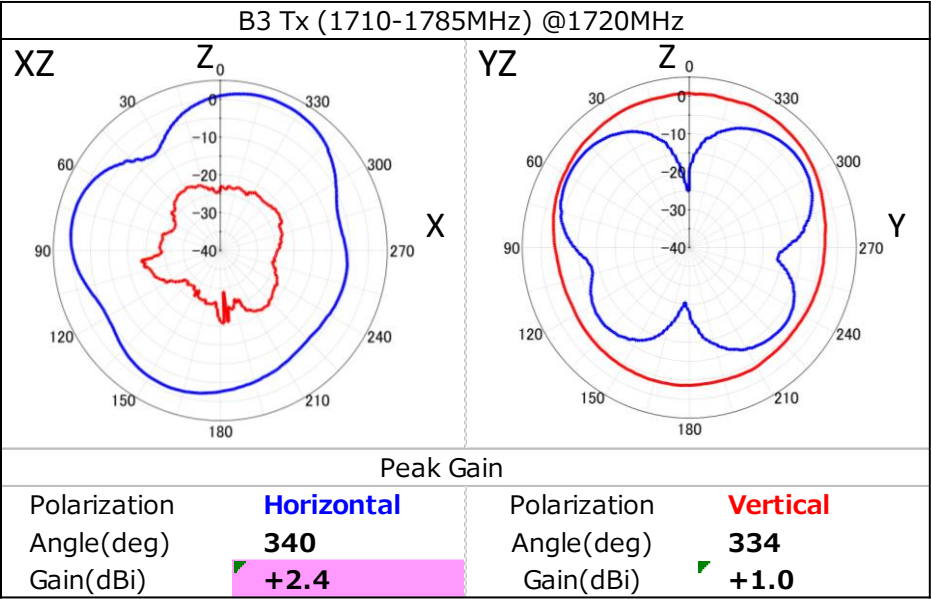


Fig. 11

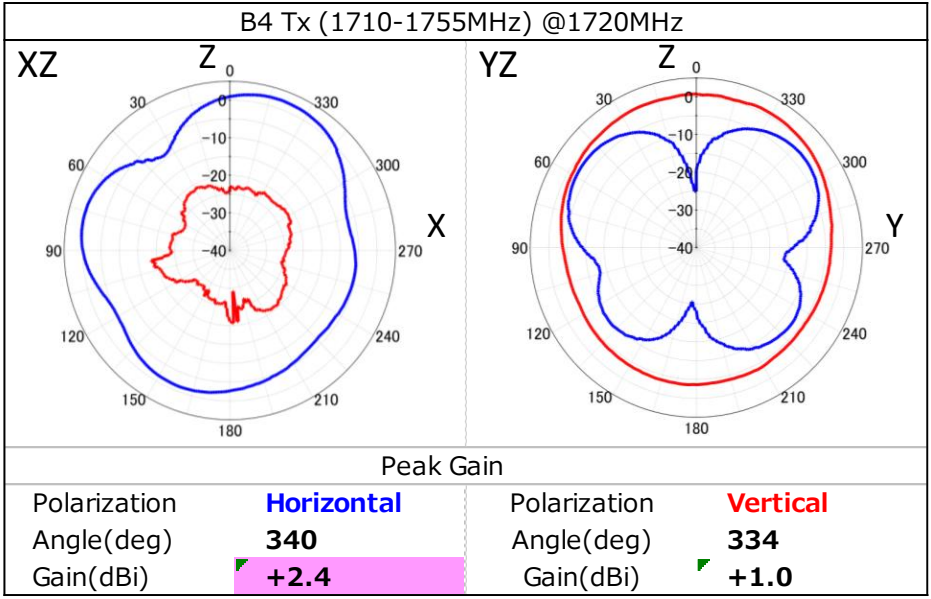


Fig. 12

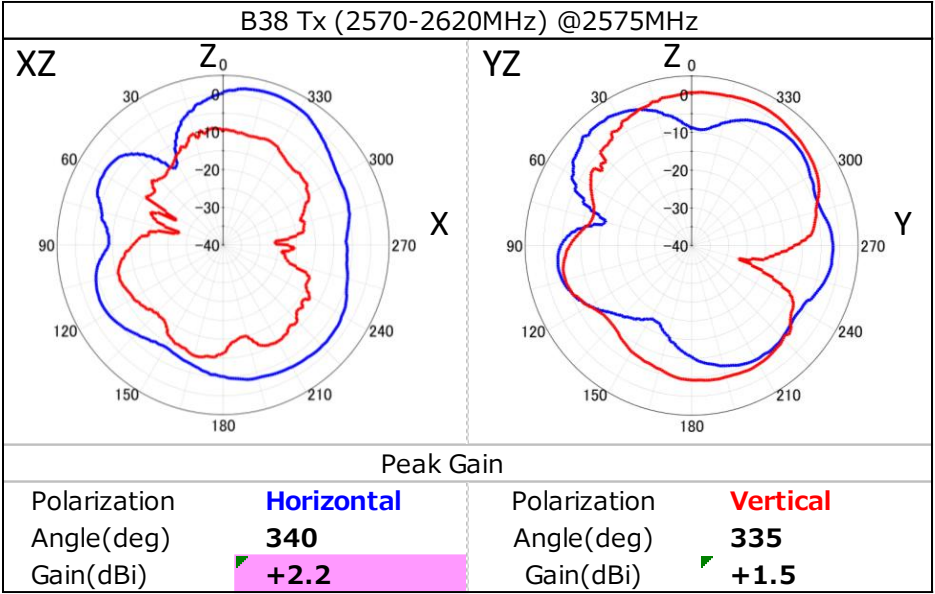


Fig. 13

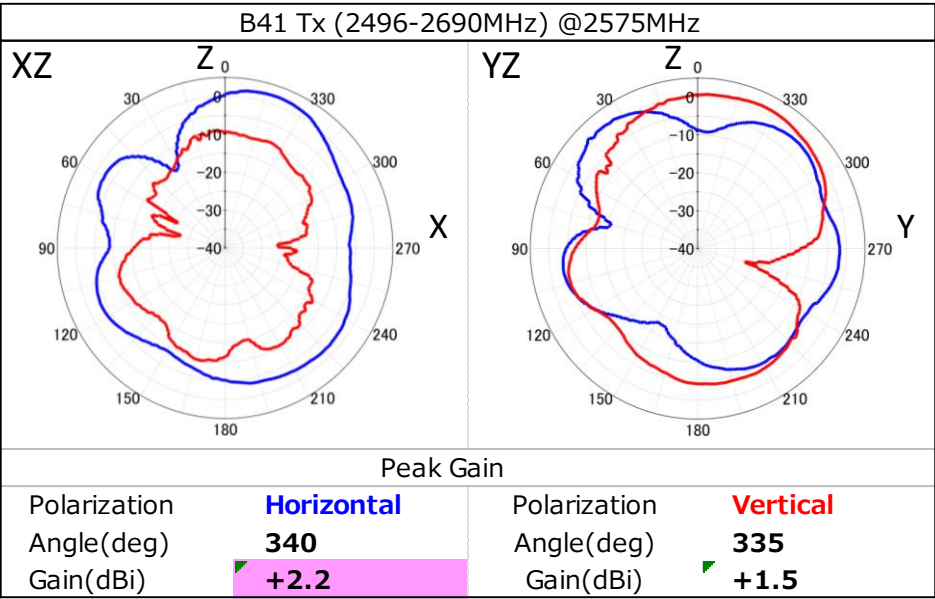


Fig. 14

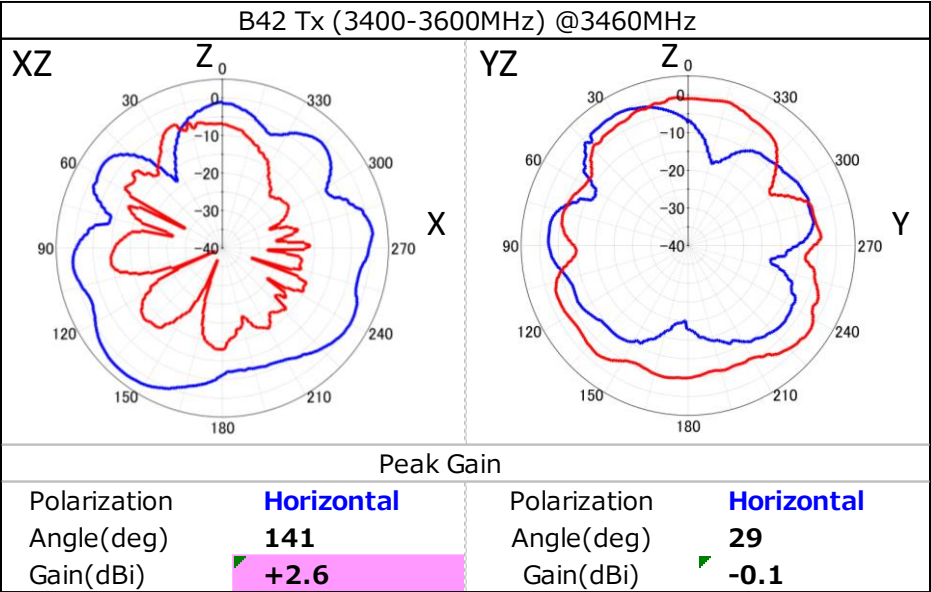


Fig. 15

4.1.4 ANT4

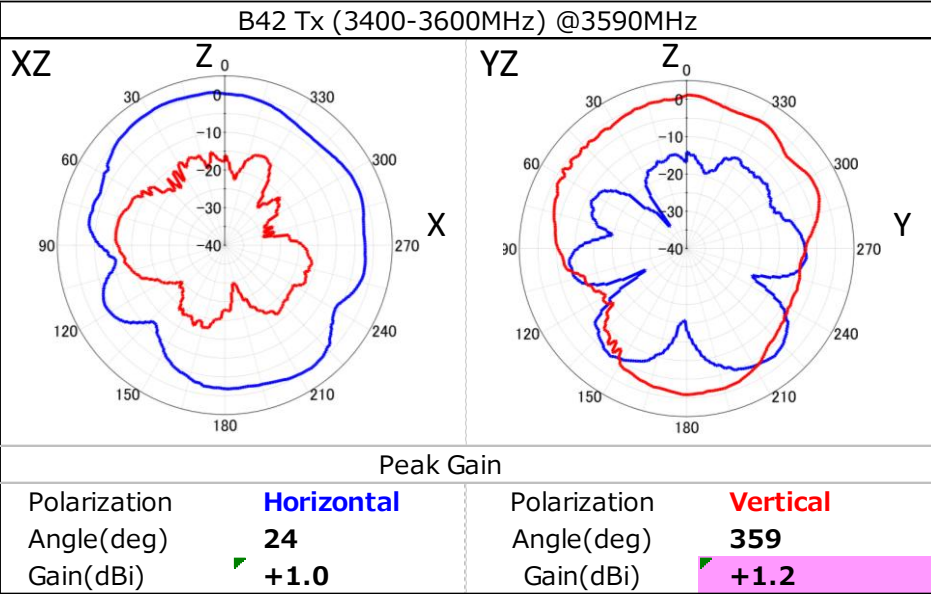


Fig. 16

4.1.5 ANT5

— Horizontal — Vertical

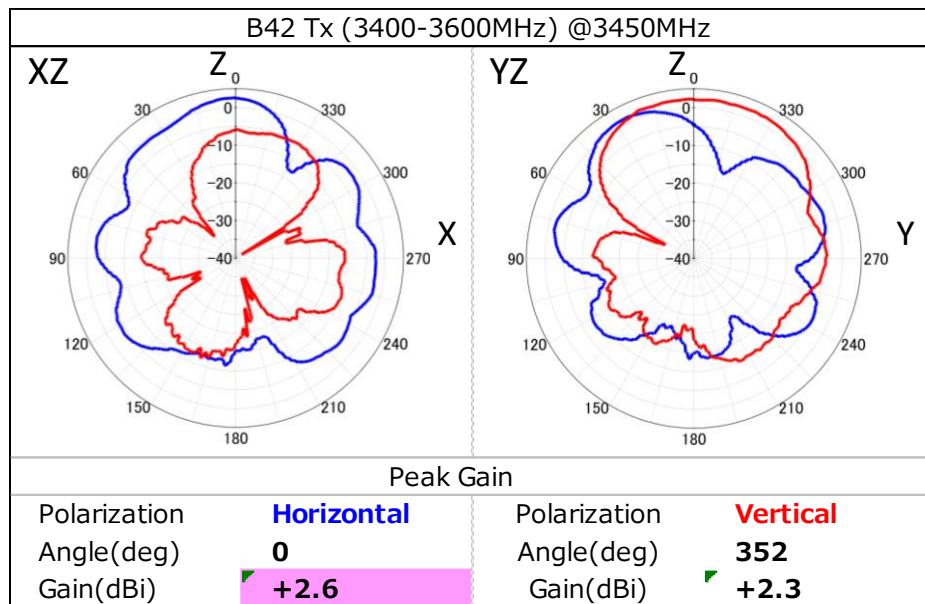


Fig. 17

4.1.6 ANT6

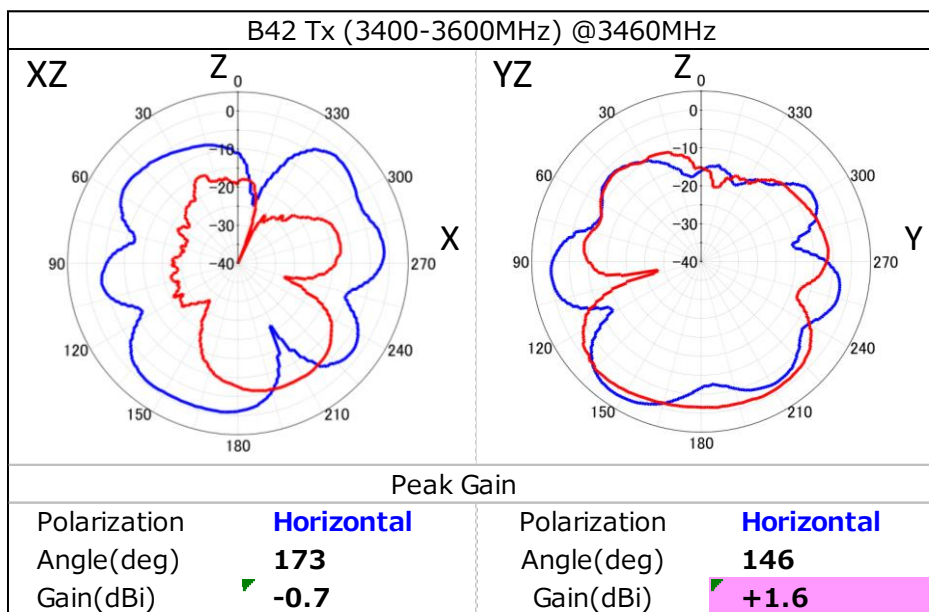


Fig. 18

4.2.1 WLAN0

— Horizontal — Vertical

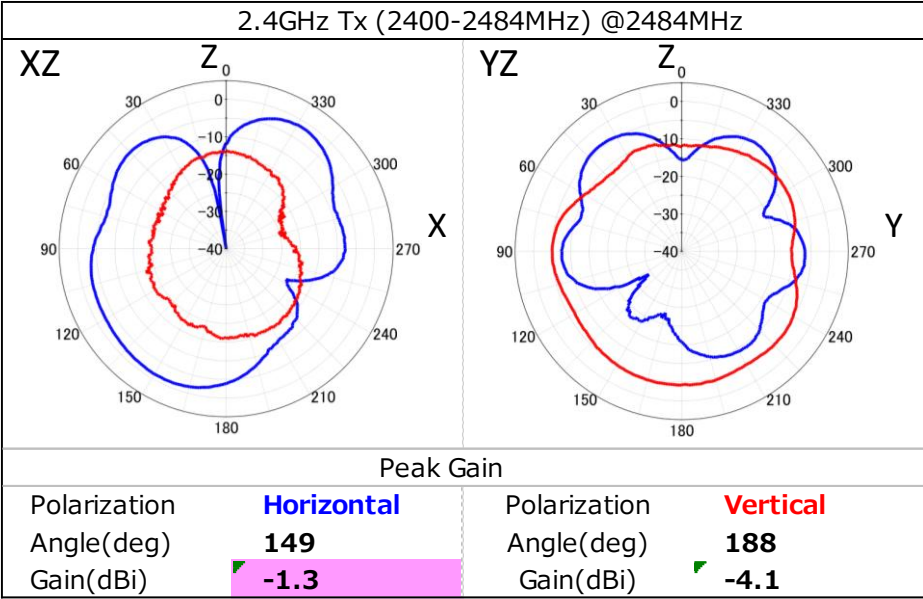


Fig. 19

4.2.2 WLAN1

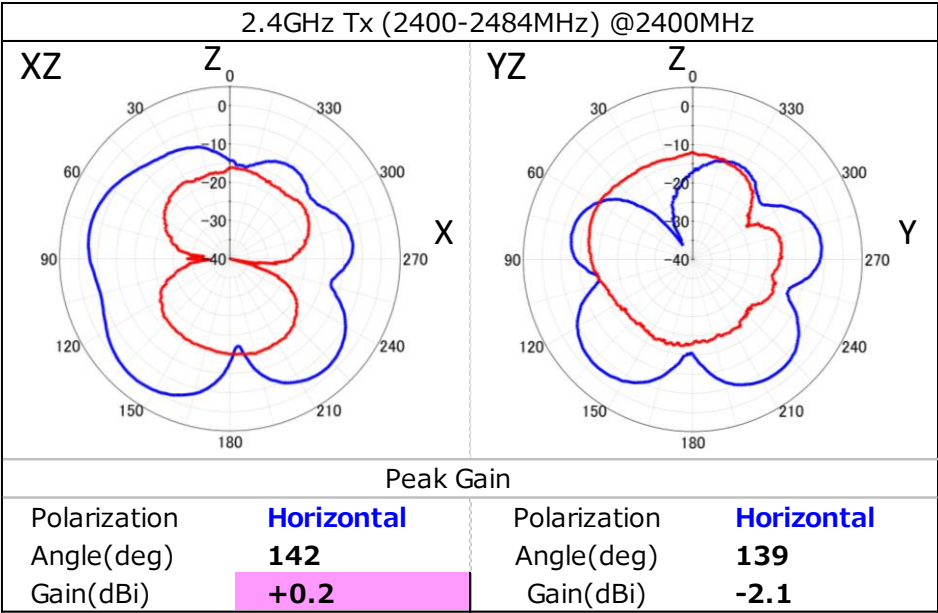


Fig. 20

4.3 Bluetooth

See Section 4.2.1