

セイコーエプソン株式会社 御中

WLAN/BTアンテナ GPSアンテナ 測定データ

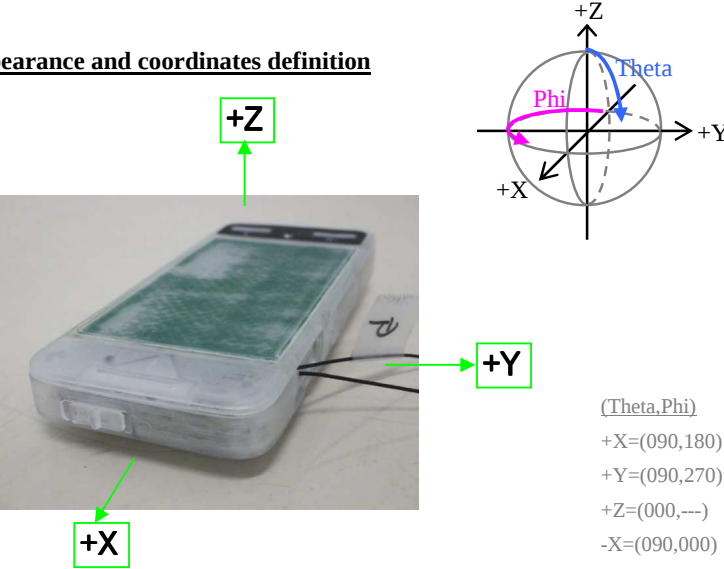


太陽誘電は、
すべてにエコ視点。

- ・本データは、当社電波暗室にて測定した参考値です。特性を保証するものではありません。
 - ・マッチング回路の値は参考値です。
- セットの状態等により変動することがありますので、必ずご確認ください。

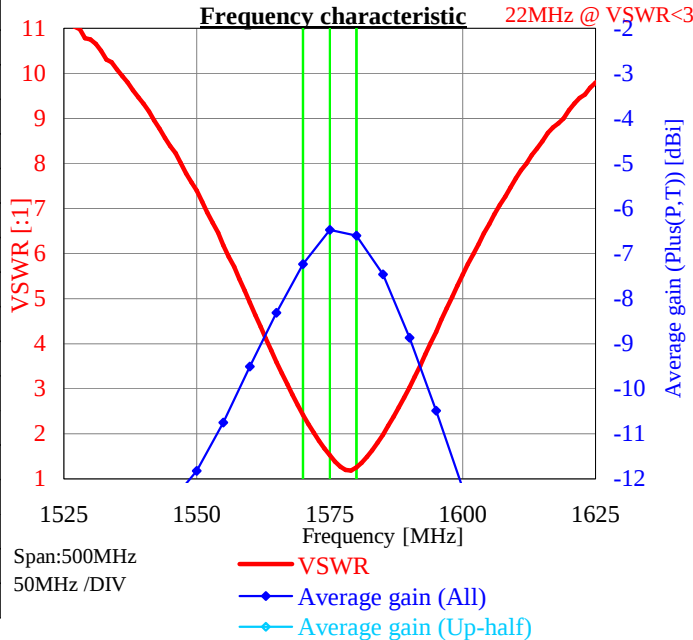
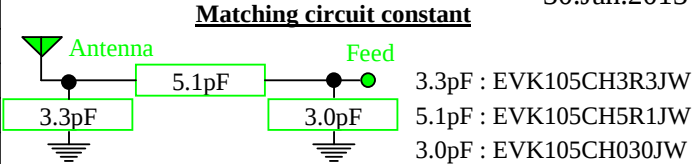
Measured in Satimo Stargate system at TAIYO YUDEN R&D CENTER.

Appearance and coordinates definition



Measurement data of antenna

Frequency [MHz]		@1575	
Peak gain		[dBi]	[dBi]
3-plane	TX-H	-4.0	LC -4.8
	TX-V	-4.5	RC -6.2
(ALL)	TX-H	-60.0	LC -120.0
	TX-V	-60.0	RC -120.0
(Up-half)	TX-H	-60.0	LC -120.0
	TX-V	-60.0	RC -120.0
Average gain**		[dBi]	[dBi]
XY-plane	TX-H	-6.8	LC -9.0
	TX-V	-15.6	RC -9.5
YZ-plane	TX-H	-9.7	LC -8.5
	TX-V	-8.6	RC -9.9
ZX-plane	TX-H	-18.2	LC -9.4
	TX-V	-6.8	RC -9.6
3-plane	TX-H	-9.6	LC -8.9
	TX-V	-9.0	RC -9.7
(ALL)	TX-H	-60.0	LC -120.0
	TX-V	-60.0	RC -120.0
(Up-half)	Plus(H,V)	-57.0	* =Efficiency
	TX-H	-60.0	LC -120.0
	TX-V	-60.0	RC -120.0
Plus(H,V)		-57.0	* Theta:0-90degrees
Efficiency [dB]		-6.5	
VSWR [:1]		1.5	

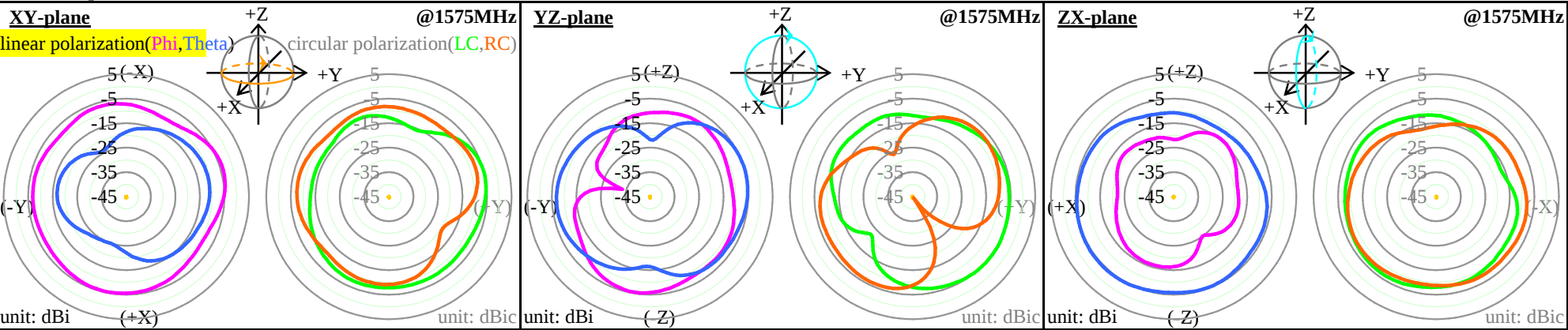


**The value is average value in 1 round of each inclination direction angle.

Phi=Horizontal polarization, Theta=Vertical polarization

LC=Left-handed circular polarization, RC=Right-handed circular polarization

Radiation pattern

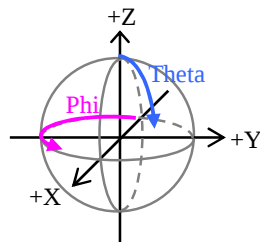
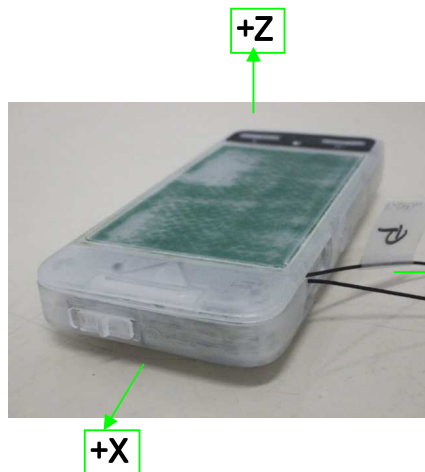




30.Jan.2013

Measured in Satimo Stargate system at TAIYO YUDEN R&D CENTER.

Appearance and coordinates definition



Measurement data of antenna

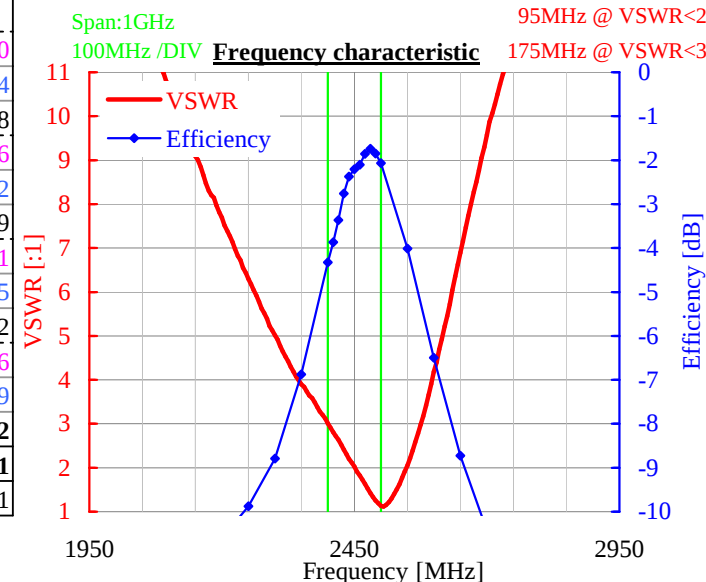
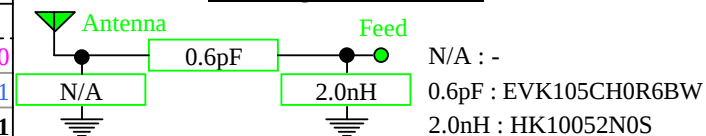
Frequency [MHz]		@2400	@2450	@2500
Peak gain [dBi]				
3-plane	TX-H	-1.8	0.0	0.0
	TX-V	-0.6	1.5	1.1
		-0.6	1.5	1.1
Average gain [dBi]				
XY-plane	TX-H	-5.1	-3.0	-3.0
	TX-V	-20.1	-17.7	-15.4
	Plus(H,V)	-4.9	-2.8	-2.8
YZ-plane	TX-H	-8.6	-6.3	-5.6
	TX-V	-8.5	-6.3	-6.2
	Plus(H,V)	-5.6	-3.3	-2.9
ZX-plane	TX-H	-15.7	-13.7	-12.1
	TX-V	-3.7	-1.6	-1.5
	Plus(H,V)	-3.4	-1.4	-1.2
3-plane	TX-H	-8.0	-5.8	-5.6
	TX-V	-7.2	-5.0	-4.9
		-4.5	-2.4	-2.2
Efficiency [dB]		-4.3	-2.2	-2.1
VSWR [:1]		3.0	2.0	1.1

*Note: Peak gain(3-plane)=Peak(XY[H],XY[V],YZ[H],YZ[V],ZX[H],ZX[V])

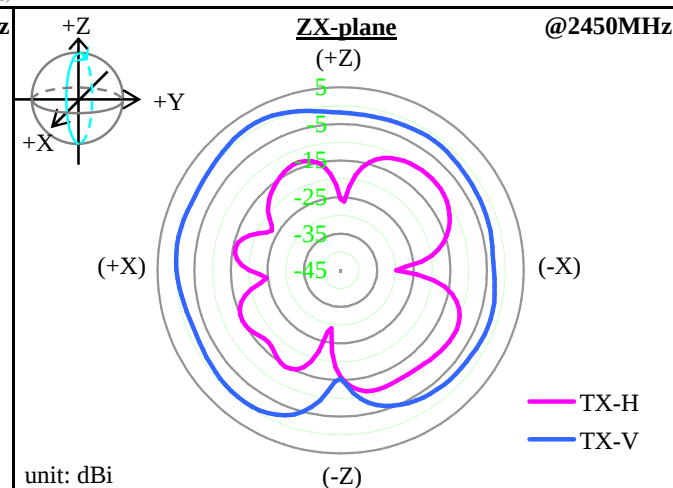
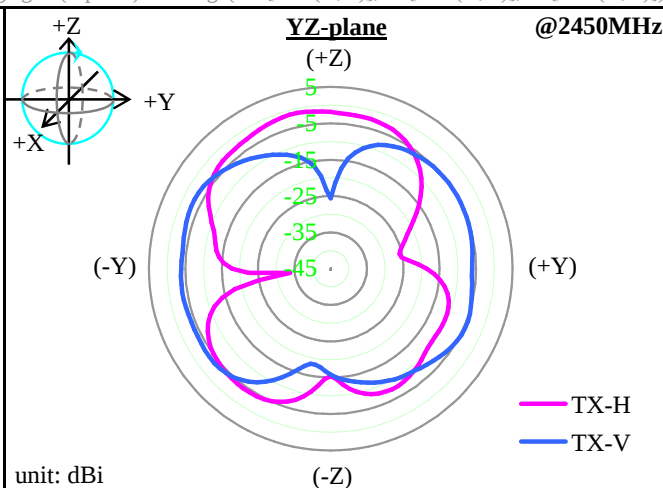
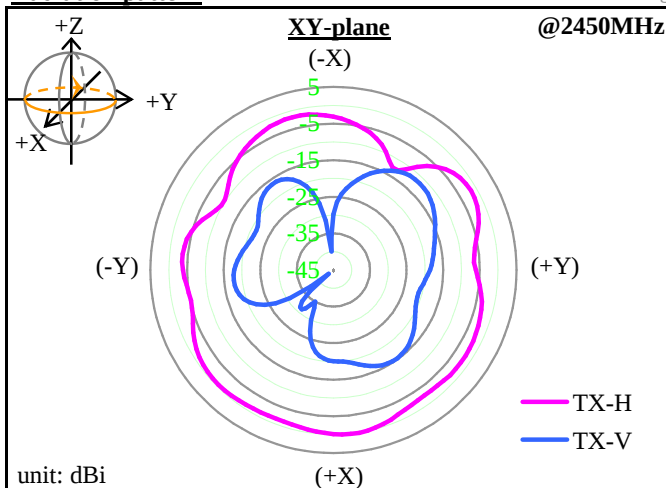
*Note:The value is average value in 1 round of each inclination direction angle.

*Note: Average gain(3-plane)=Average(XY[Plus(H,V)],YZ[Plus(H,V)],ZX[Plus(H,V)])

Matching circuit constant



Radiation pattern



20130130M0863