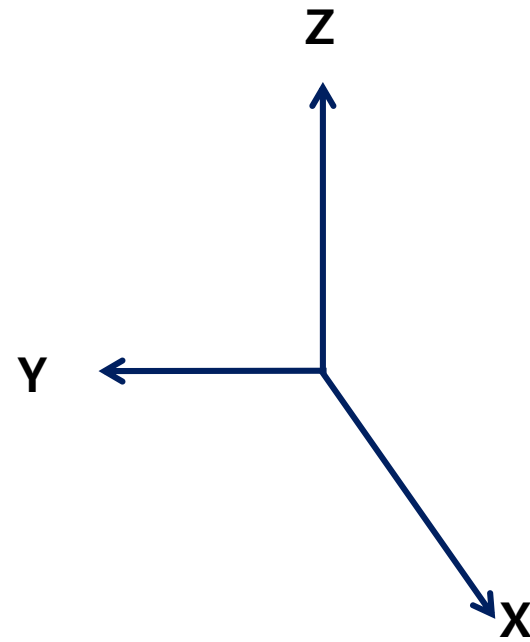


블루버드_MT3XX
Main Antenna
성능 보고서

작성 자 : Arro

작성일자 : 13. 04. 01

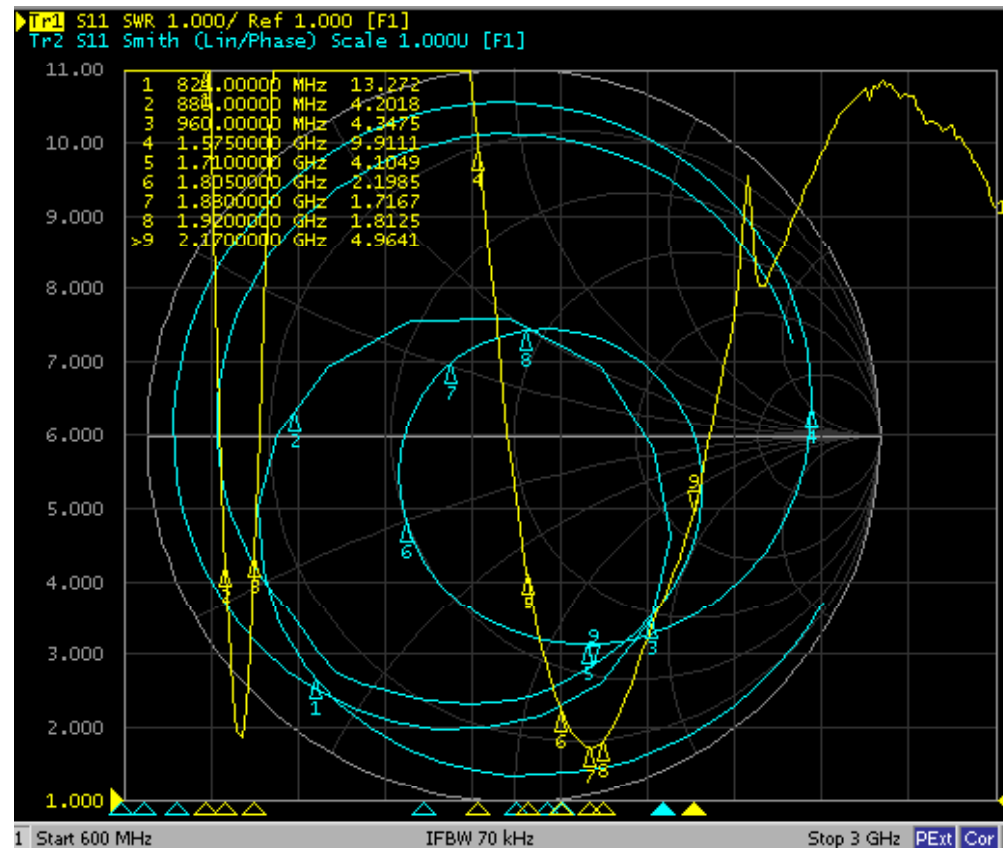
1. Test Condition



2. Passive Data (N/A)

- Electrical Characteristics

Antenna	Main
Frequency Range	GSM(850,900) DCS,PCS, WCDMA
VSWR	Low Max 4.3:1 High Max 4.9:1
Polarization	Linear





3. Chamber Passive Data

- Electrical Characteristics

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Frequency [MHz]	824	849	869	880	894	915	925	960	1575	1710	1785	1805	1850	1880	1910	1930	1980	1990	2110	2170
Efficiency [dB]	-6.55	-5.41	-4.73	-4.70	-4.67	-4.75	-4.71	-5.76	-5.17	-2.60	-2.23	-1.99	-2.59	-4.50	-4.73	-5.09	-5.15	-5.02	-5.95	-6.50
Efficiency [%]	22.12	28.75	33.66	33.92	34.11	33.46	33.82	26.55	30.39	54.96	59.80	63.28	55.09	35.50	33.65	31.00	30.52	31.51	25.41	22.39
TRG [dB]	-6.55	-5.41	-4.73	-4.70	-4.67	-4.75	-4.71	-5.76	-5.17	-2.60	-2.23	-1.99	-2.59	-4.50	-4.73	-5.09	-5.15	-5.02	-5.95	-6.50
TRG _e [dB]	-7.03	-5.89	-5.16	-5.12	-5.08	-4.98	-5.08	-6.20	-6.76	-4.61	-4.14	-4.14	-5.66	-8.16	-8.61	-8.98	-9.21	-9.03	-10.51	-11.58
Gain _{e, Peak} [dB]	-3.91	-2.71	-1.76	-1.71	-1.84	-1.74	-1.64	-2.07	-1.96	-0.30	-0.35	-0.89	-2.00	-1.77	-2.25	-2.79	-3.22	-3.04	-4.35	-6.16
Gain _{e, Min} [dB]	-26.46	-22.25	-20.99	-21.07	-19.15	-19.14	-20.97	-30.02	-21.62	-20.28	-22.29	-22.18	-17.75	-21.85	-26.78	-33.72	-36.05	-32.04	-31.45	-25.55
TRG _m [dB]	-16.34	-15.27	-15.01	-15.00	-15.16	-17.77	-15.57	-15.95	-10.32	-6.91	-6.73	-6.06	-5.54	-6.94	-7.02	-7.36	-7.32	-7.21	-7.82	-8.11
Gain _{m, Peak} [dB]	-11.16	-9.83	-9.38	-9.27	-9.45	-11.13	-8.46	-8.73	-4.69	-1.68	-0.54	-1.00	-0.31	-0.83	-1.01	-1.55	-2.05	-1.88	-1.70	-1.94
Gain _{m, Min} [dB]	-29.87	-30.09	-30.84	-30.44	-33.75	-31.34	-28.38	-39.18	-25.29	-27.73	-27.99	-23.28	-19.20	-21.59	-22.21	-23.13	-24.53	-24.32	-33.23	-30.03
UHRG [dB]	-10.39	-9.52	-9.01	-8.94	-8.88	-9.30	-9.42	-11.18	-8.94	-5.53	-5.25	-4.98	-5.33	-6.77	-7.00	-7.41	-7.46	-7.31	-7.80	-8.35
UHRG/TRG [%]	41.35	38.83	37.35	37.62	37.93	35.12	33.82	28.67	42.02	50.92	49.88	50.17	53.21	59.30	59.28	58.55	58.78	58.90	65.34	65.29
H-Plane	-5.07	-4.33	-3.61	-3.44	-3.21	-3.06	-3.18	-4.59	-7.92	-5.36	-4.32	-3.88	-5.61	-9.27	-9.64	-10.00	-9.97	-9.81	-11.56	-12.74
E1-Plane, AVG [dB]	-8.21	-7.09	-6.37	-6.35	-6.32	-6.22	-6.33	-7.52	-8.54	-6.57	-6.33	-6.15	-7.98	-11.63	-12.37	-12.73	-13.33	-13.33	-15.57	-17.61
E2-Plane, AVG [dB]	-8.33	-7.18	-6.46	-6.41	-6.40	-6.35	-6.44	-7.30	-5.41	-2.88	-2.57	-2.38	-3.84	-5.91	-6.44	-6.84	-6.93	-6.72	-8.13	-9.06
Peak Gain [dB]	-3.70	-2.57	-1.72	-1.69	-1.81	-1.70	-1.43	-2.01	-1.45	-0.09	-0.01	-0.04	-0.23	-0.53	-0.18	-0.71	-1.38	-1.37	-1.16	-1.58
Directivity [dB]	2.85	2.85	3.01	3.01	2.86	3.06	3.28	3.75	3.72	2.51	2.22	1.95	2.36	3.97	4.55	4.37	3.77	3.64	4.79	4.92
Minimum Gain [dB]	-14.95	-13.94	-14.21	-15.31	-14.21	-14.70	-15.66	-20.89	-12.96	-9.06	-9.25	-8.12	-9.57	-13.17	-13.26	-14.27	-14.65	-14.60	-15.86	-14.14
Test Condition	FS																			
Antenna Type																				
FS=Free Space, BHR=Beside Head Right Side, BHL=Beside Head Left Side, HR=Hand Right, HL=Hand Left, BHHR=Beside Head and Hand Right Side, BHHL=Beside Head and Hand Left Side, NB=Notebook																				
Average Efficiency	-4.44 dB,		35.99 %																	