

HyperX (HDT586) Stinger 3 Antenna Radiation Report

MERRY Sounds Excellent

*Presented by : Merry_RF Eden
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Content

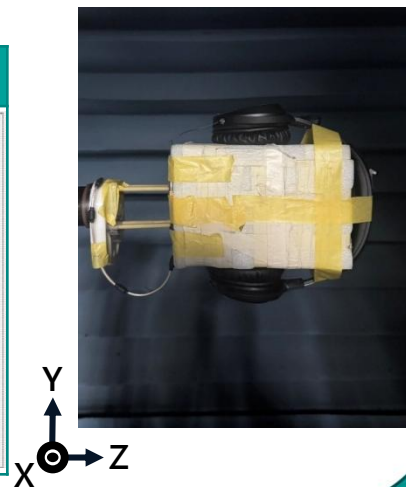
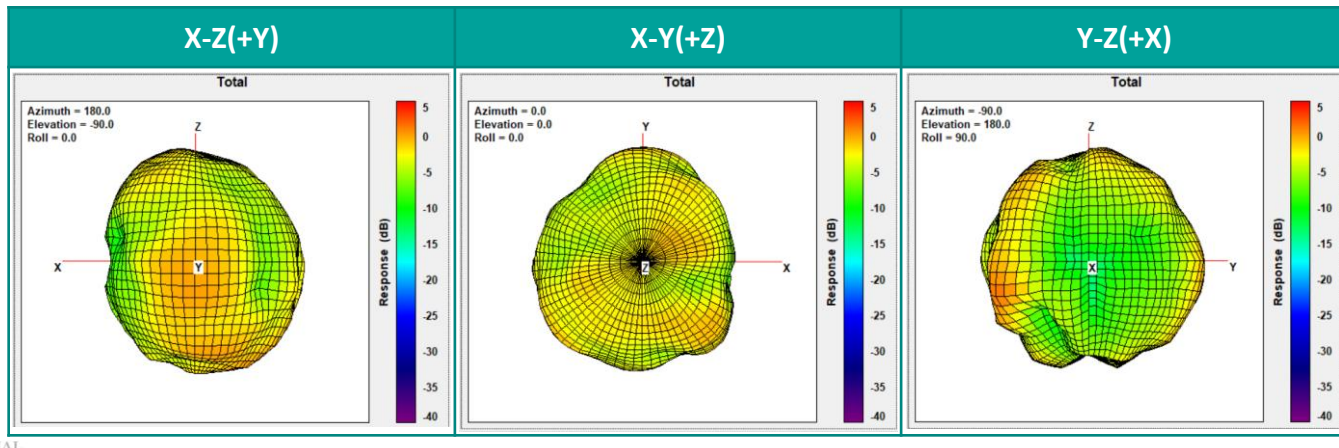
- Test Photo & Setting
- Measured result
 - Antenna Efficiency & Gain
 - Radiation pattern

Antenna Efficiency & Gain – Headset_Xbox (Free Space)

Model	Merry_HDT586_EV_Original_HT_FS_XBOX_3D_Gain										
Test / Position	3D Gain / FS										
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak EIRP (dBm)	2.88	2.78	2.58	2.34	2.11	1.90	1.86	1.98	2.05	2.17	2.26
Directivity (dBi)	5.68	5.58	5.40	5.23	5.05	4.88	4.95	5.09	5.24	5.38	5.48
Efficiency (dB)	-2.80	-2.80	-2.83	-2.89	-2.94	-2.98	-3.08	-3.11	-3.20	-3.21	-3.21
Efficiency (%)	52.49	52.45	52.18	51.40	50.81	50.36	49.15	48.84	47.90	47.78	47.72
Gain (dBi)	2.88	2.78	2.58	2.34	2.11	1.90	1.86	1.98	2.05	2.17	2.26



Mic Off

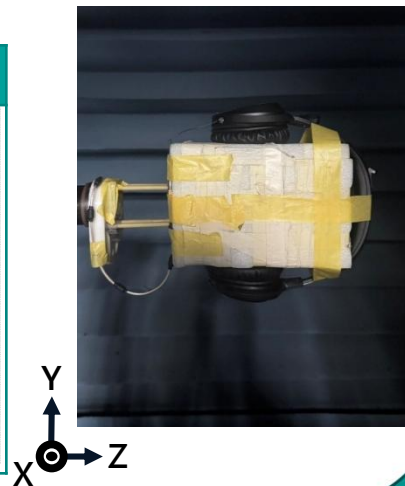
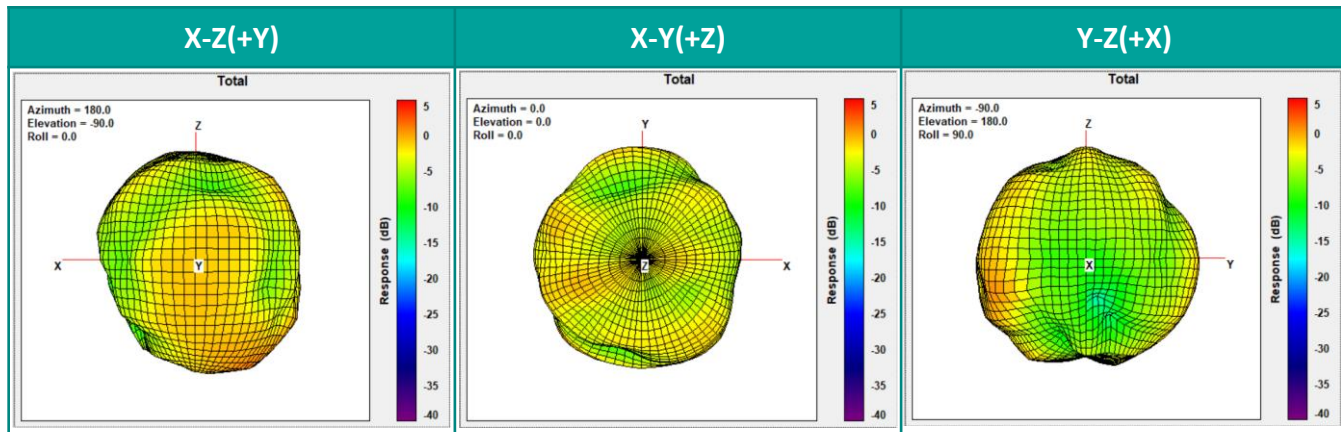


Antenna Efficiency & Gain – Headset_PC (Free Space)

Model	Merry_HDT586_EV_Original_HT_FS_PC_3D_Gain										
Test / Position	3D Gain / FS										
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak EIRP (dBm)	2.53	2.58	2.60	2.58	2.55	2.54	2.39	2.34	2.28	2.26	2.34
Directivity (dBi)	4.75	4.78	4.80	4.83	4.84	4.84	4.79	4.78	4.82	4.84	4.95
Efficiency (dB)	-2.22	-2.20	-2.20	-2.25	-2.28	-2.30	-2.40	-2.44	-2.54	-2.58	-2.61
Efficiency (%)	60.03	60.26	60.22	59.61	59.10	58.86	57.57	56.98	55.71	55.23	54.84
Gain (dBi)	2.53	2.58	2.60	2.58	2.55	2.54	2.39	2.34	2.28	2.26	2.34

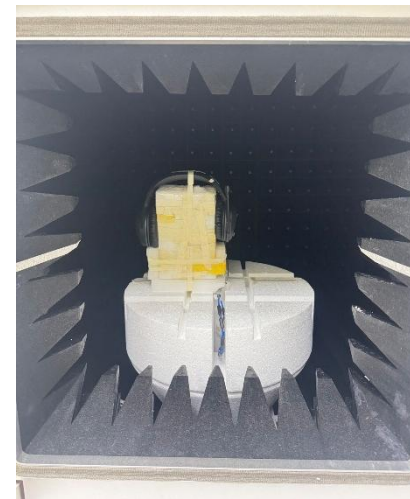
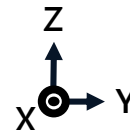


Mic Off



Antenna Efficiency & Gain – Headset TIS/TRP(Xbox)

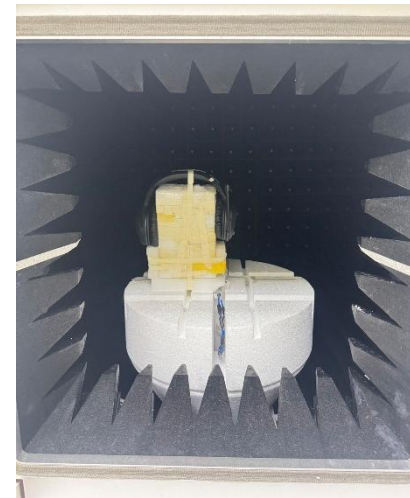
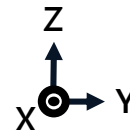
Model	Merry_HDT586_Headset_Xbox		
Test/Position	TRP/TIS		
Communication system	BT OTA		
Channel	0	39	78
Frequency(MHz)	2402	2441	2480
Tot. Rad. Pwr. (dBm)	4.93	4.95	4.92
Tot. Iso. Sen. (dBm)	-92.80	-92.68	-92.61



Model	Merry_HDT586_EV_Original_HT_FS_XBOX_3D_Gain										
Test / Position	3D Gain / FS										
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak EIRP (dBm)	2.88	2.78	2.58	2.34	2.11	1.90	1.86	1.98	2.05	2.17	2.26
Directivity (dBi)	5.68	5.58	5.40	5.23	5.05	4.88	4.95	5.09	5.24	5.38	5.48
Efficiency (dB)	-2.80	-2.80	-2.83	-2.89	-2.94	-2.98	-3.08	-3.11	-3.20	-3.21	-3.21
Efficiency (%)	52.49	52.45	52.18	51.40	50.81	50.36	49.15	48.84	47.90	47.78	47.72
Gain (dBi)	2.88	2.78	2.58	2.34	2.11	1.90	1.86	1.98	2.05	2.17	2.26

Antenna Efficiency & Gain – Headset TIS/TRP(PC)

Model	Merry_HDT586_Headset_PC		
Test/Position	TRP/TIS		
Communication system	BT OTA		
Channel	0	39	78
Frequency(MHz)	2402	2441	2480
Tot. Rad. Pwr. (dBm)	5.42	5.54	5.53
Tot. Iso. Sen. (dBm)	-93.25	-93.27	-93.27



Model	Merry_HDT586_EV_Original_HT_FS_PC_3D_Gain										
Test / Position	3D Gain / FS										
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak EIRP (dBm)	2.53	2.58	2.60	2.58	2.55	2.54	2.39	2.34	2.28	2.26	2.34
Directivity (dBi)	4.75	4.78	4.80	4.83	4.84	4.84	4.79	4.78	4.82	4.84	4.95
Efficiency (dB)	-2.22	-2.20	-2.20	-2.25	-2.28	-2.30	-2.40	-2.44	-2.54	-2.58	-2.61
Efficiency (%)	60.03	60.26	60.22	59.61	59.10	58.86	57.57	56.98	55.71	55.23	54.84
Gain (dBi)	2.53	2.58	2.60	2.58	2.55	2.54	2.39	2.34	2.28	2.26	2.34

Thank You

Delivering Fidelity Sound to Enrich Human's Life

