

Antenna Test Report

Report No.: TEOT2606000666EP

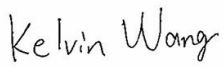
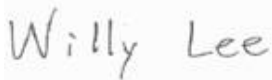
Applicant Name: Primax Electronics Ltd.
Manufacturer Name: Primax Electronics Ltd.

Product Name: Wireless Mouse
Device Model No.: TPA-P012M

Antenna Supplier: WALSIN
Antenna Model No.: RFECA3216060A1T

Measurements performed at
SGS Taiwan Ltd.
NeiHu District, Taiwan

Issued Date: June 04, 2026

	Name	Date & Signature	Distribution
Prepared by:	Kelvin Wang Engineer	 June 04, 2026	
Approved by:	Willy Lee Supervisor	 June 04, 2026	

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Revision Version

Report Number	Revision	Date	Memo
TEOT2605000549EP	00	2026/05/21	Initial creation of test report.
TEOT2606000666EP	01	2026/06/04	Added Antenna Supplier, Model No. and modify antenna type. The original test report TEOT2605000549EP will be withdrawn with this test report TEOT2606000666EP and is no longer valid when the withdrawal occurred.

This test report contains a reference to the previous version test report that it replaces.

Measurement System Information

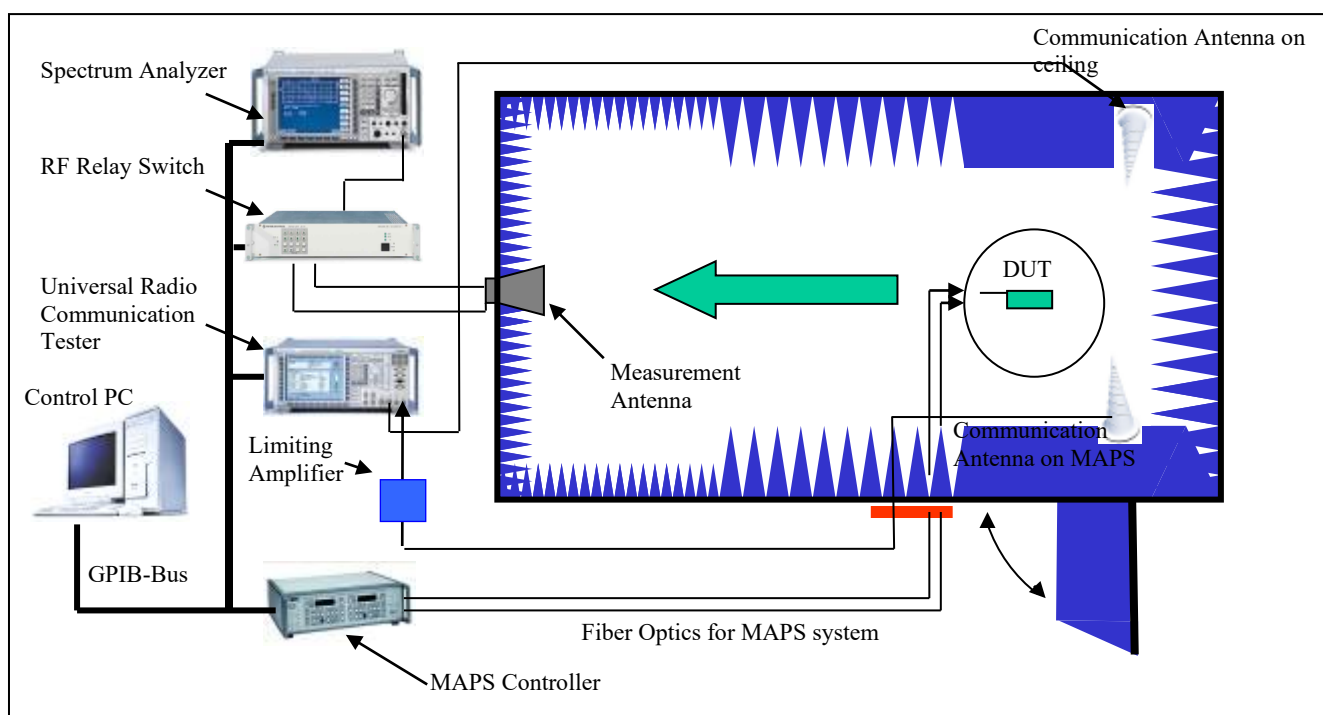
General Information

Testing Condition:

- Temperature: $25 \pm 3^{\circ}\text{C}$
- Humidity: $< 80\%$

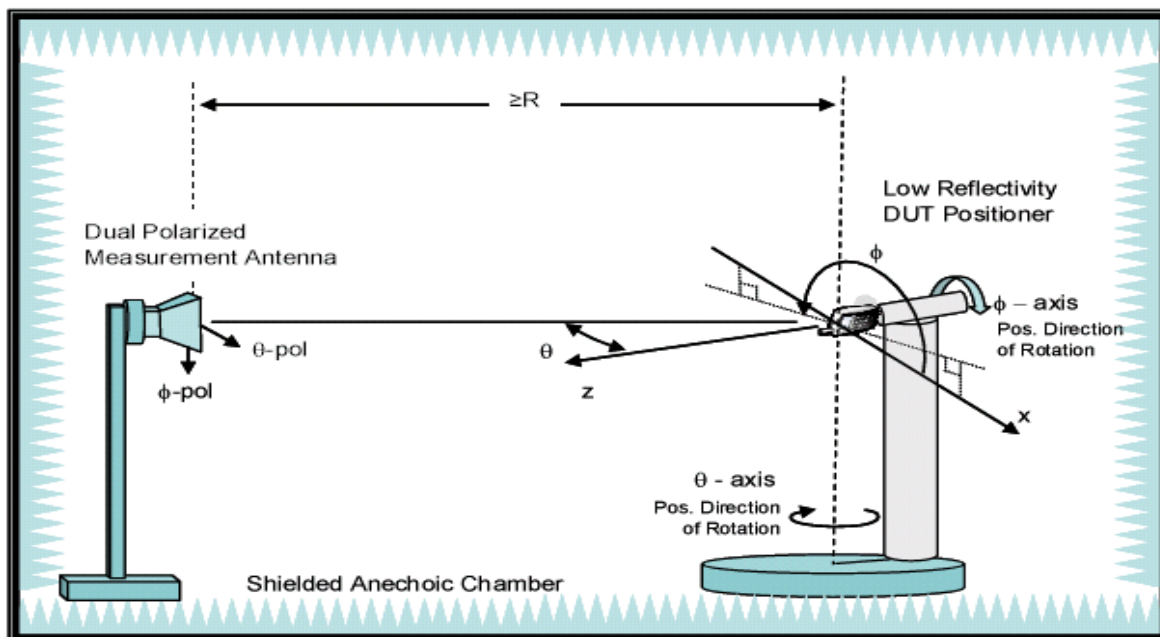
Measurement Facility:

- Measurement Chamber: ETS-Lindgren 3D fully anechoic chamber and its measuring system (AMS-8500)
- Base Station Simulator: Agilent E5515C
- ETS-Lindgren EMCO-2090 Auxiliary Ports RF Relay Switches
- Spectrum Analyzer: Agilent N9010A
- Network Analyzer: Agilent E5071C



Measurements are performed in an ETS-Lindgren **AMS-8500** 3D fully anechoic test system. The test system includes a high-performance RF-shielded, rectangular anechoic chamber, a Multi-Axis Positioning System (MAPS), and *EMQuestTM* *EMQ-100* data acquisition and analysis software. The geometry of the setup is specified below for reference.

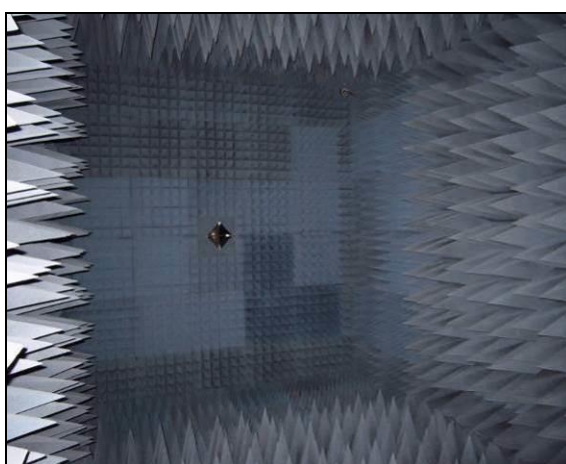
Typical Setup for ETS-Lindgren AMS-8500:



Instruments View



Inside View



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Testing Laboratory: Identification of the Responsible Test Laboratory.

- **OTA Laboratory:**
SGS Taiwan Ltd. Wireless Laboratory
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803.
Telephone: +886 2 2299 3279
Fax: +886 2 2298 0488
Internet: <http://www.tw.sgs.com>
- **Testing Location:**
1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City 114, Taiwan 11446.

Details of Applicant:

Applicant's name:	Primax Electronics Ltd.
Applicant's address:	No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan (R.O.C.)
Contact person:	Nina Lin
Telephone:	02-2798-1093
Fax:	N/A
E-mail:	nina.lin@primax.com.tw

Details of Manufacturer:

Manufacturer's name:	Primax Electronics Ltd.
Manufacturer's address:	No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan (R.O.C.)
Contact person:	Nina Lin
Telephone:	02-2798-1093
Fax:	N/A
E-mail:	nina.lin@primax.com.tw

Details of EUT:

Product Name:	Wireless Mouse
Device Manufacturer:	Primax Electronics Ltd.
Device Model No.:	TPA-P012M
Antenna Supplier:	WALSIN
Antenna Model No.:	RFECA3216060A1T
Frequency Range:	2400MHz ~ 2500MHz, Step size: 10MHz
Antenna Type:	CERAMIC ANTENNA

Duration of Tests:

Sample Receive Date:	2026-05-04
Test Starting Date:	2026-05-08
Test Ending Date:	2026-05-08
Report Issued Date:	2026-06-04

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List of Equipment

Equipment Summary Sheet

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Network analyzer	Agilent	E5071C	2025/09/04	2026/09/03
Measurement software	ETS-Lindgren	EMQuest 1.14	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2115	N/A	N/A
Multi axis positioning system(MAPSTM)	ETS-Lindgren	EMCO 2110	N/A	N/A
MAPSTM controller	ETS-Lindgren	EMCO 2090	N/A	N/A
Fully anechoic test system	ETS-Lindgren	AMS-8500	N/A	N/A
Horn antenna	ETS-Lindgren	3164-10	N/A	N/A

Reference Measurement Procedure

The reference measurement procedure is described in SGS Working Instruction WI-TESP-EO-101 to 108 for OTA service.

Antenna Gain and Efficiency

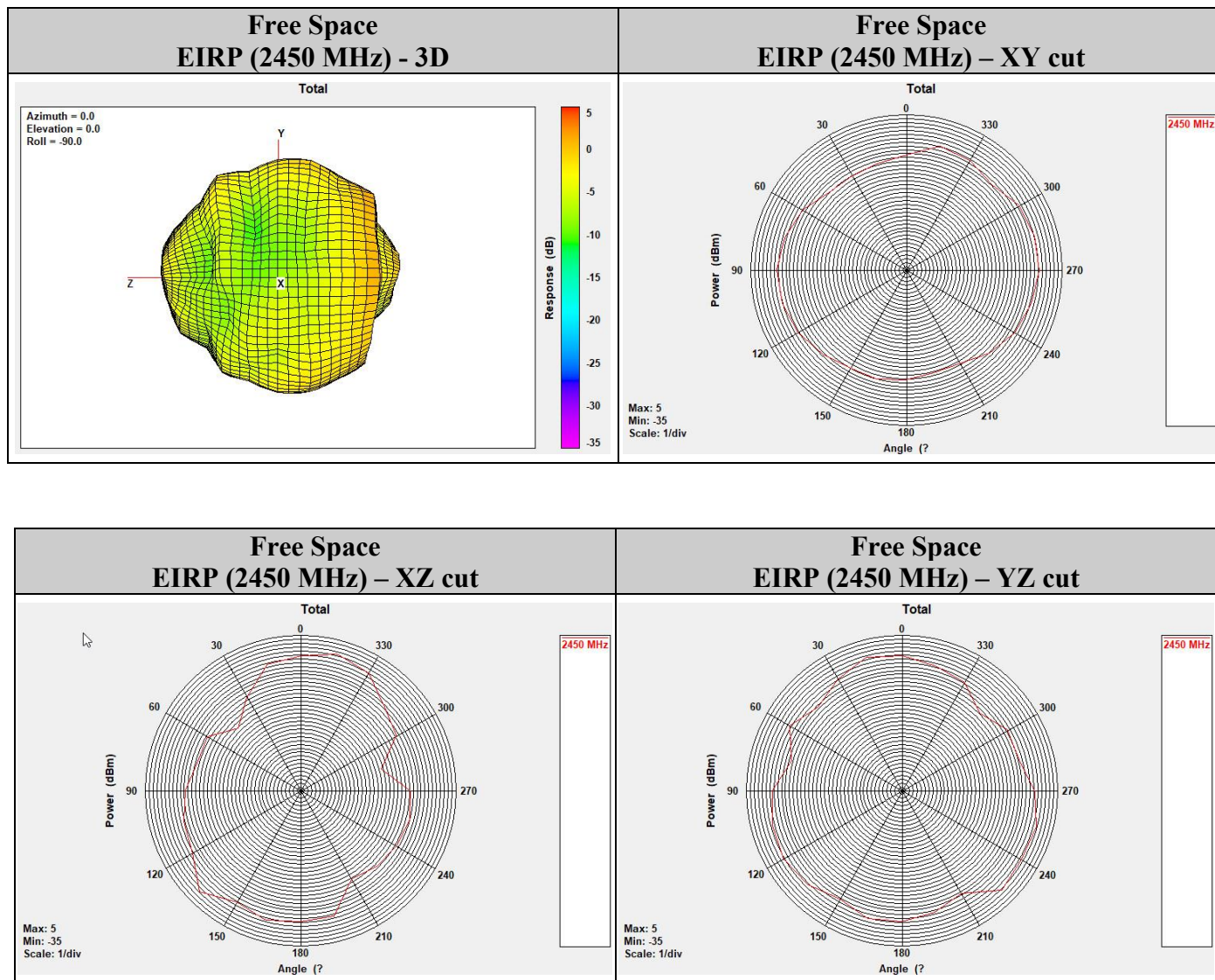
Test Result											
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-3.08	-3.00	-3.01	-2.98	-2.95	-2.98	-2.96	-3.04	-3.19	-3.38	-3.55
Peak EIRP (dBm)	2.08	2.16	2.21	2.13	2.18	2.11	1.94	1.90	1.76	1.49	1.21
Directivity (dBi)	5.16	5.16	5.22	5.11	5.14	5.09	4.91	4.94	4.94	4.87	4.76
Efficiency (dB)	-3.08	-3.00	-3.01	-2.98	-2.95	-2.98	-2.96	-3.04	-3.19	-3.38	-3.55
Efficiency (%)	49.20	50.12	50.05	50.34	50.65	50.39	50.53	49.67	48.02	45.92	44.12
Gain (dBi)	2.08	2.16	2.21	2.13	2.18	2.11	1.94	1.90	1.76	1.49	1.21
NHPRP $\pm\pi/4$ (dBm)	-4.82	-4.77	-4.79	-4.77	-4.74	-4.76	-4.76	-4.84	-5.00	-5.21	-5.41
NHPRP $\pm\pi/6$ (dBm)	-6.71	-6.67	-6.69	-6.64	-6.58	-6.59	-6.57	-6.65	-6.82	-7.04	-7.25
NHPRP $\pm\pi/8$ (dBm)	-8.05	-8.02	-8.04	-7.98	-7.91	-7.90	-7.86	-7.93	-8.11	-8.32	-8.53
Upper Hem. PRP (dBm)	-6.96	-6.89	-6.93	-6.97	-7.02	-7.13	-7.17	-7.29	-7.45	-7.60	-7.73
Lower Hem. PRP (dBm)	-5.37	-5.28	-5.26	-5.19	-5.12	-5.08	-5.04	-5.08	-5.23	-5.44	-5.65

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Antenna 3D Plot Matrix

All plots in this section show the total EIRP ($EIRP_{\theta} + EIRP_{\phi}$) with the +x-axis pointing out of the page, +y-axis pointing top of the page, and +z-axis pointing left of the page.



End of Report

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