

APPLICANT NAME & ADDRESS

Xnergy Autonomous Power Technologies Pte Ltd
988 Toa Payoh North, #06-01, Singapore 319002

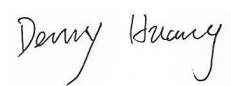
PRODUCT NAME	PH Series Wireless Charger Transmitter PH Series Wireless Charger Receiver
MODEL NUMBER(S)	TX18PH-xUyz (x, y, z can be any alphanumeric) RX4803PH-xUyz (x, y, z can be any alphanumeric)
FCC ID	TX18PH-xUyz: 2BOHS-XNGYPHTX RX4803PH-xUyz: 2BOHS-XNGYPHRX
TEST STANDARDS	FCC CFR 47 Part 15: Subpart B FCC CFR 47 Part 18

TEST LABORATORY & ADDRESS

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SINGLAS REGISTRATION
① LA-2009-0450-E
② LA-2009-0450-E-1

RECEIPT OF EUTs	17 JUL 2025	TEST PERIOD	17 JUL 2025 – 23 JUL 2025
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PREPARED BY	APPROVED BY
	
TAN SZE THRIN ASSOCIATE TEST ENGINEER	DENNY HUANG SENIOR TEST ENGINEER

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council.



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RELEASE CONTROL RECORDS

For any necessary material amendments or modifications to a test report after issue, it will be made only in the form of a new revision of test report. The latest revision of test report replaces all former test reports issued. The former test reports are no longer valid.

It will be uniquely identified with a new revision number and be clearly recorded in the table below, including the change description and a reference to the original test report that it replaces.

Revision	Report Date	Description	Revised By
Ø	26 DEC 2025	Initial Issue.	-

PRODUCT DETAILS

RECEIVED SAMPLES (INFORMATION PROVIDED BY CUSTOMER)

MANUFACTURER	Xnergy Autonomous Power Technologies Pte Ltd 988 Toa Payoh North, #06-01, Singapore 319002
PRODUCT NAME	PH Series Wireless Charger Transmitter PH Series Wireless Charger Receiver
PRODUCT DESCRIPTION	EUT is a wireless charger with Bluetooth Low Energy intended for industrial application. The EUT includes two parts: PH Series Wireless Charger Transmitter and PH Series Wireless Charger Receiver The PH Series Wireless Charger Transmitter includes two units: Transmitter Powering Unit (TPU) and Transmitter Pad (TXP) The PH Series Wireless Charger Receiver includes two units: Receiver Powering Unit (RPU) and Receiver Pad (RXP)
MODEL NUMBER(s)	TX18PH-xUyz (x, y, z can be any alphanumeric) RX4803PH-xUyz (x, y, z can be any alphanumeric)
TEST MODEL	TX18PH-AU20 RX4803PH-AU20
SERIAL NUMBER(s)	TPU-A2028, RX-A1006 (For RE below 30MHz testing) TPU-A2028, RX-A1011 (For RE above 1GHz testing and CE testing)
MODEL DIFFERENCE	The last four digits xUyz denotes cable length and target market. Their electrical circuit design, layout, components used and internal wiring are identical, only the color and model name is different. The connecting cable between TPU and TXP can come into two different length options: 1- 0.5m and 2- 1.0m The connecting cable between RPU and RXP can come in three options: 1- 0.3m, 2- 0.5m, 3- 1.0m Prescan result done for Radiated Emission and Conducted Emission based on different cable length, result shown "TX18PH-AU20" and "RX4803PH-AU20" are the worst case. We select "TX18PH-AU20" and "RX4803PH-AU20" as the representative model for compliance test. TX18PH-xUyz is PH Series Wireless Charger Transmitter. RX4803PH-xUyz is PH Series Wireless Charger Receiver.
EUT SETUP DESCRIPTION	☒ Floor Standing
RATED SUPPLY VOLTAGE / FREQUENCY / CURRENT	Model: TX18PH-xUyz: Input AC Single Phase 100-230 VAC, 50 / 60 Hz, 12 A max Model: RX4803PH-xUyz: Output 16-60 VDC, 30 A max. 1500 W max
OPERATION FREQUENCY	Wireless Charger: 79-90 kHz / 1.5 kW BLE: 2402 MHz ~ 2480 MHz
WEIGHT (kg)	TPU – 6.7 kg, TXP – 2.8 kg RPU – 1.0 kg, RXP – 1.2 kg
DIMENSIONS (W x H x D)	TPU – 335 x 254 x 86 (mm), TXP – 335 x 175 x 25 (mm) RPU – 185 x 90 x 47 (mm), RXP – 218 x 109 x 21.5 (mm)

HIGHEST CLOCK FREQUENCY	120 MHz
EQUIPMENT CONDITION(S)	No damage
COPY OF MARKING PLATE	wirelessly powered by Xenergy M/N TX18PH-AU10 S/N LXXXXYM Input: 100-230 Vac; 50/60Hz; 12A max. FCC ID: 2BOHS-XNGYPHTX IC: 33631-XNGYPHTX Made in China www.xenergytech.com        wirelessly powered by Xenergy M/N TX18PH-AU20 S/N LXXXXYM Input: 100-230 Vac; 50/60Hz; 12A max. FCC ID: 2BOHS-XNGYPHTX IC: 33631-XNGYPHTX Made in China www.xenergytech.com       

wirelessly powered by

Xenergy

M/N RX4803PH-AU10
S/N LXXXXYM
Output: 16-60Vdc;
30A max.
1500W max.
FCC ID: 2BOHS-XNGYPHRX
IC: 33631-XNGYPHRX
Made in China
www.xenergytech.com










wirelessly powered by

Xenergy

M/N RX4803PH-AU20
S/N LXXXXYM
Output: 16-60Vdc;
30A max.
1500W max.
FCC ID: 2BOHS-XNGYPHRX
IC: 33631-XNGYPHRX
Made in China
www.xenergytech.com









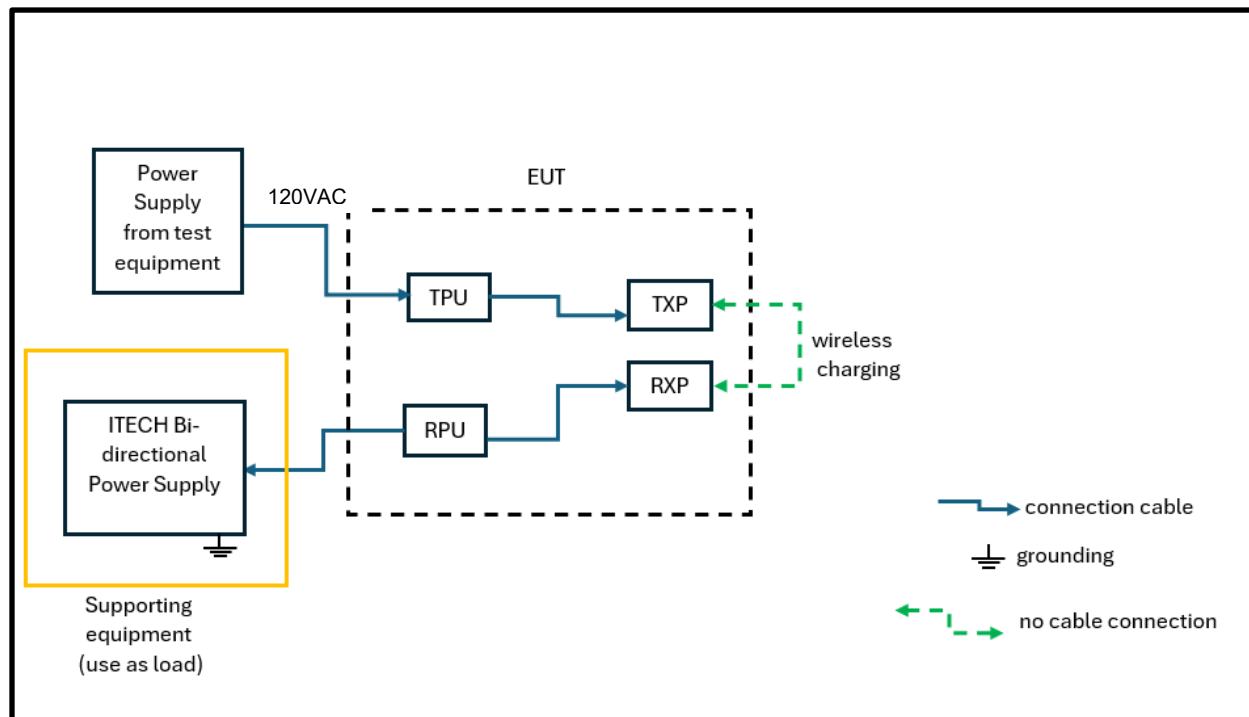

ANCILLARY/SUPPORTING DEVICES

Device Name	Model Number	Serial Number	Comment
ITECH Bi-directional Power Supply	IT6005C-80-120	803952022747840004	Use as load

EUT CABLES

Cable Description	EUT Port Name (optional)	Length	From	To
Power Entry Cable	NA	1.5m	AC source	TPU AC input
DC Power Cable	NA	0.5 ± 0.02m	RPU	ITECH Bi-directional Power Supply

BLOCK DIAGRAM



TEST MODE(S) CONFIGURATION

No.	EUT Configuration	Test Mode	Comment
1	Operation mode – Charger in operation and is charging	Wireless Charging Operation Mode (Full Load)	-

EXTERNAL EUT PHOTOGRAPHS

Refer to Appendix I “PH Series Wireless Charger Transmitter External Photographs” and Appendix III “PH Series Wireless Charger Receiver External Photographs.”

INTERNAL EUT PHOTOGRAPHS

Refer to Appendix II "PH Series Wireless Charger Transmitter Internal Photographs" and Appendix IV "PH Series Wireless Charger Receiver Internal Photographs".

TEST SETUP PHOTOGRAPHS

Refer to Appendix VIII "PH Series Wireless Charger FCC Part15B&18 Test Setup Photographs".

ENVIRONMENTAL CONDITIONS

All tests were carried out under these ambient conditions: temperature 18 °C – 28 °C, and relative humidity of ≤70%.

DEVIATION FROM TEST METHOD

No deviation from standard test method

MODIFICATION OF EUT FOR COMPLIANCE

Added WE ferrite core 74271222 to TPU to TXP Cable.

STATEMENT OF TEST RESULTS

ELECTROMAGNETIC INTERFERENCE TEST

Test	Standard	Class	Test Model No.	Serial No.	Pass / Fail
Radiated Emission	FCC CFR 47 Part 15: Subpart B ANSI C63.4-2014	CLASS A	TX18PH-AU20 RX4803PH-AU20	TPU-A2028, RX-A1006 TPU-A2028, RX-A1011	PASS
Conducted Emission	FCC CFR 47 Part 15: Subpart B ANSI C63.4-2014	CLASS A	TX18PH-AU20 RX4803PH-AU20	TPU-A2028, RX-A1006 TPU-A2028, RX-A1011	PASS

Test	Standard	Class	Test Model No.	Serial No.	Pass / Fail
Radiated Emission	FCC CFR 47 Part 18 FCC MP-5	/	TX18PH-AU20 RX4803PH-AU20	TPU-A2028, RX-A1006 TPU-A2028, RX-A1011	PASS
Conducted Emission	FCC CFR 47 Part 18 FCC MP-5	/	TX18PH-AU20 RX4803PH-AU20	TPU-A2028, RX-A1006 TPU-A2028, RX-A1011	PASS

The EUT complies with the requirements of the above test standards.

DECISION RULES AND MEASUREMENT UNCERTAINTY

METROLOGICAL TRACEABILITY

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

DECISION RULE

The decision rule is based on simple acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

MEASUREMENT UNCERTAINTY

The uncertainty of the radiated measurement at a confidence level of approximately 95% with a coverage factor of 2 in the range 9 kHz to 30 MHz is $\pm 2.24\text{dB}$.

The uncertainty of the radiated measurement at a confidence level of approximately 95% with a coverage factor of 2 in the range 30 MHz to 1 GHz is $\pm 4.19\text{dB}$.

The uncertainty of the radiated measurement at a confidence level of approximately 95% with a coverage factor of 2 in the range 1 GHz to 6 GHz is $\pm 5.05\text{dB}$.

The uncertainty of the radiated measurement at a confidence level of approximately 95% with a coverage factor of 2 in the range 6 GHz to 18 GHz is $\pm 5.23\text{dB}$.

The uncertainty of the conducted measurement at a confidence level of approximately 95% with a coverage factor of 2 in the range 150 kHz to 30 MHz is $\pm 3.32\text{dB}$.

TEST DETAILS

RADIATED EMISSION TEST

TEST OVERVIEW

Test Standard:	FCC CFR 47 Part 15: Subpart B ANSI C63.4-2014 FCC CFR 47 Part 18 FCC MP-5
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number(s)	TPU-A2028, RX-A1006 TPU-A2028, RX-A1011
EUT Operating Mode(s)	Wireless Charging Operating Mode (Full load)
Ambient Condition	18 °C – 28 °C, ≤70%RH
Result:	PASS

TEST INSTRUMENTATION

Instrument	Model	Serial Number	Cal Due Date
Teseq Active Loop Antenna 9kHz-30MHz	HLA 6121	49613	17 May 2027
Rohde & Schwarz EMI Receiver 20Hz – 26.5GHz	ESU26	100405	7 Jan 2026
Teseq Bilog Antenna 30MHz - 2GHz (With 6db attenuator)	CBL6112B (MVE2256-06)	2874 (ATT #001)	17 Dec 2025
TDK Pre-Amplifier 9kHz – 1GHz	PA-02-9K1G	TRS-301-00008	17 May 2026
EMCO Horn Antenna 1GHz – 6GHz	3115	9805-5466	25 Jun 2027
Com-Power Corp. Pre-Amplifier 1GHz – 6GHz	PAM-6000	18030027	25 Jun 2026
Schwarzbeck Horn Antenna 3GHz – 18GHz	BBHA 9120 C	9120C-381	22 Oct 2025
Schwarzbeck Pre-Amplifier 6GHz – 18GHz	HAP06-18W	00000008	22 Oct 2025
Handheld Multimeter	E2377A	2932J06711	4 Dec 2026

TEST SOFTWARE USED

Test Software	Software Version
TOYO EMI SOFTWARE EP5/RE	VER 6.0.120

LIMIT

FCC CFR 47 Part 18 Field Strength Limits

FCC 18.305 (b) Field strength Limits at a measuring distance of 10 m		
Operating frequency	RF Power generated by equipment (watts)	Limit dBμV/m
Any non-ISM frequency	1500	57.8
Note 1	The maximum power of the EUT is 1500 watts.	
Note 2	Limit in dB(μV/m) @ 10 m = Limit in dB(μV/m) @ 300 m + 20*Log (300/10)	
Note 3	The operating frequency of EUT belongs to non-ISM frequency (refers to FCC 18.301), the limit for RF Power generated by equipment more than 500 watts = 15 * SQRT (Power/500) = 15 * SQRT (1500/500) = 25.98 μV/m = 28.29 dBμV/m @ 300 m = 28.29 + 20*Log (300/10) = 57.8 dBμV/m @ 10 m	
FCC 18.305 (b) Field strength Limits at a measuring distance of 3 m		
Operating frequency	RF Power generated by equipment (watts)	Limit dBμV/m
Any non-ISM frequency	1500	68.3
Note 1	The maximum power of the EUT is 1500 watts.	
Note 2	Limit in dB(μV/m) @ 3 m = Limit in dB(μV/m) @ 300 m + 20*Log (300/3)	
Note 3	The operating frequency of EUT belongs to non-ISM frequency (refers to FCC 18.301), the limit for RF Power generated by equipment more than 500 watts = 15 * SQRT (Power/500) = 15 * SQRT (1500/500) = 25.98 μV/m = 28.29 dBμV/m @ 300 m = 28.29 + 20*Log (300/3) = 68.3 dBμV/m @ 3 m	

FCC CFR 47 Part 15: Subpart B limit

Class A below 1 GHz limits for Radiated Disturbances at a measuring distance of 10 m	
Frequency Range MHz	Quasi Peak Limit dB(μV/m)
30 - 88	39.1
88 - 216	43.5
216 - 960	46.4
960 - 1000	49.5

Note 1	The lower limit shall apply at the transition frequency.
Note 2	Additional provisions may be required for cases where interference occurs.

Class A above 1 GHz Limits for Radiated Disturbances at a measuring distance of 3 m		
Frequency Range GHz	Peak Limit dB(μV/m)	Average Limit dB(μV/m)
1 to 18	80	60

Note 1	The lower limit shall apply at the transition frequency.
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TEST SET-UP DETAILS

From 90 kHz to 150 kHz and 150 kHz to 30 MHz:

- The EUT and the cables shall be insulated (up to 15 cm) from the ground plane and 10m distance from the receiving antenna in a shielded semi-anechoic chamber.
- A pre-scan is performed on the EUT. The EMI receiver set in peak detection mode, the turntable rotated from 0° to 360°, and the antenna fixed at 0, 45, 90 and 135 degrees for vertical (V) and 0 degree for horizontal (H) polarizations (P) to measure the highest emissions from the EUT. The height for the measurement is fixed at 1m.
- From the pre-scan readings, 6 highest emissions are selected based on measured peak (PK) values. These emissions are re-measured by rotating the turntable from 0° to 360° to find their angles and the antenna fixed at 0, 45, 90 and 135 degrees for vertical (V) and 0 degree for horizontal (H) polarizations (P). The height for the measurement is fixed at 1m.
- The EMI receiver is then set in quasi-peak (QP) detection mode to measure the 6 highest emissions at their respective angles and heights.

From 30 MHz to 1 GHz:

- The EUT and the cables shall be insulated (up to 15 cm) from the ground plane and 10m distance from the receiving antenna in a shielded semi-anechoic chamber.
- A pre-scan is performed on the EUT. The EMI receiver set in peak detection mode, the turntable rotated from 0° to 360°, and the antenna moved from 1 m to 4 m in both vertical (V) and horizontal (H) polarizations (P) to measure the highest emissions from the EUT.
- From the pre-scan readings, 6 highest emissions are selected based on measured peak (PK) values. These emissions are re-measured by rotating the turntable from 0° to 360° to find their angles and the antenna moved from 1m to 4m in both vertical (V) and horizontal (H) polarizations (P) to determine their heights.
- The EMI receiver is then set in quasi-peak (QP) detection mode to measure the 6 highest emissions at their respective angles and heights.

Above 1 GHz:

- The EUT and the cables shall be insulated (up to 15 cm) from the ground plane and 3m distance from the receiving antenna in a shielded semi-anechoic chamber.
- A pre-scan is performed on the EUT. The EMI receiver set in peak & average detection mode, the turntable rotated from 0° to 360°, and the antenna moved from 1 m to 4 m in both vertical (V) and horizontal (H) polarizations (P) to measure the highest emissions from the EUT.
- From the pre-scan readings, 6 highest emissions are selected. Both Peak (PK) and Average (AV) measurements were carried out on the 6 highest emissions at their respective angles and heights.

Notes:

Magnetic-Field strength is reported in dB μ A/m.

- EMI Level (dB μ A/m) = Receiver reading (dB μ V) + Correction factor (dB μ A/m / dB μ V).
- Correction Factor (dB μ A/m / dB μ V) = Antenna factor H-field (dB μ A/m / dB μ V) + RF cable loss (dB) – Preamplifier gain (dB).
- QP/AV/PK Margin(dB) = QP/AV/PK limit (dB μ A/m) – QP/AV/PK Level (dB μ A/m).

E-Field strength is reported in dB μ V/m.

- QP/AV/PK Level (dB μ V/m) = Receiver reading (dB μ V) + Correction factor (dB/m).
- Correction Factor (dB/m) = Antenna factor (dB/m) + RF cable loss (dB) – Preamplifier gain (dB).
- QP/AV/PK Margin(dB) = QP/AV/PK limit (dB μ V/m) – QP/AV/PK Level (dB μ V/m).

TEST DATA GRAPH LEGEND

Vertical



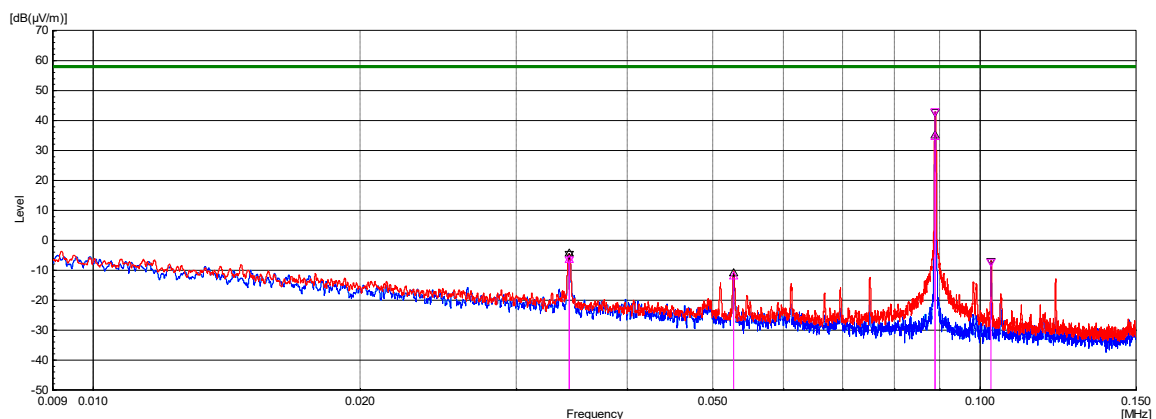
Horizontal

RADIATED EMISSION TEST DATA

Tested by	Cheng Yee		
Test Date(s)	29 Aug 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 18		
Frequency Range	9 kHz to 150 kHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1006		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	10 m
Ambient Condition	23.2 °C, 59% RH		

Frequency [MHz]	(P)	Reading QP [dB(μV)]	Factor [dB(1/m)]	Level QP [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
0.034	H	24.5	-31	-6.5	57.8	64.3	100	263
0.053	H	19.1	-31.1	-12	57.8	69.8	100	16
0.089	H	65.3	-30.9	34.4	57.8	23.4	100	300
0.034	V	24.7	-31	-6.3	57.8	64.1	200	1
0.089	V	74	-30.9	43.1	57.8	14.7	200	265
0.103	V	23.7	-30.9	-7.2	57.8	65	200	263

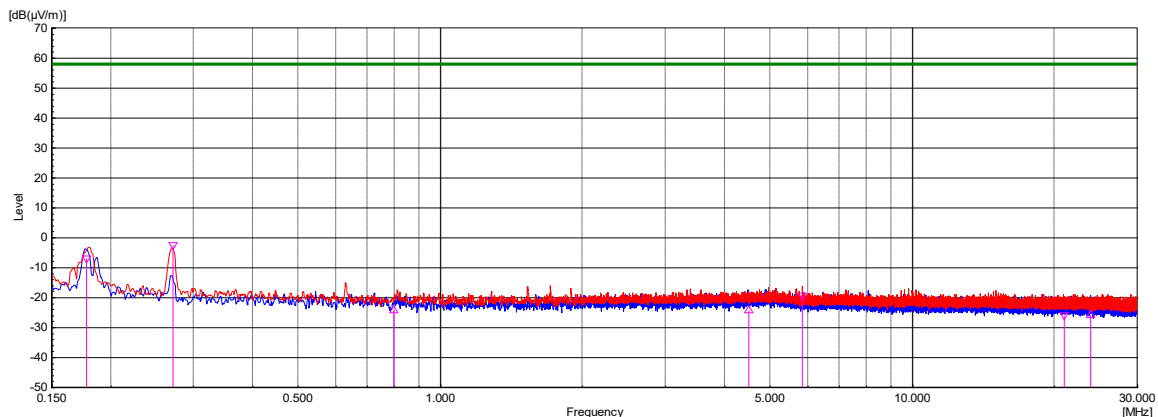
Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
0.034	H	26.5	-31	-4.5	57.8	62.3	100	94
0.053	H	20	-31.1	-11.1	57.8	68.9	100	22
0.089	H	65.8	-30.9	34.9	57.8	22.9	100	307
0.034	V	26.5	-31	-4.5	57.8	62.3	200	106
0.089	V	73.7	-30.9	42.8	57.8	15	200	279
0.103	V	24.1	-30.9	-6.8	57.8	64.6	200	263



Tested by	Jonathan He		
Test Date(s)	2 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 18		
Frequency Range	150 kHz to 30 MHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1006		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	10 m
Ambient Condition	21.9 °C, 61% RH		

Frequency [MHz]	(P)	Reading QP [dB(μV)]	Factor [dB(1/m)]	Level QP [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
0.795	H	6.2	-30.5	-24.3	57.8	82.1	100	186
4.506	H	5.8	-29.9	-24.1	57.8	81.9	100	136
23.88	H	3.5	-29.3	-25.8	57.8	83.6	100	57
0.178	V	23.9	-30.7	-6.8	57.8	64.6	300	17
0.271	V	28.3	-30.6	-2.3	57.8	60.1	200	46
5.852	V	11.1	-30.3	-19.2	57.8	77	200	325
21.013	V	3.7	-29.4	-25.7	57.8	83.5	400	153

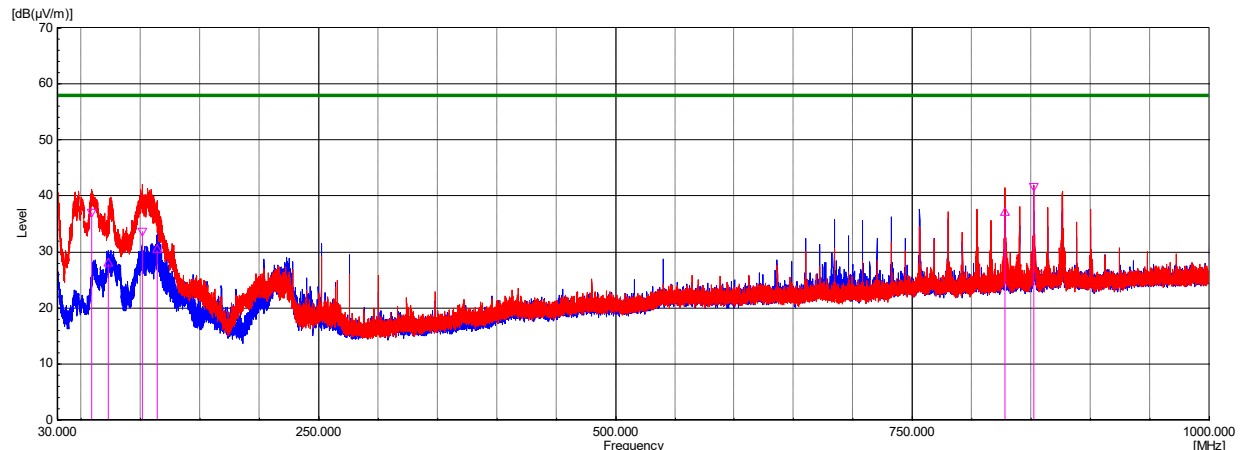
Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
0.723	H	12	-30.4	-18.4	57.8	76.2	100	78
4.484	H	12.6	-29.9	-17.3	57.8	75.1	100	180
23.825	H	10	-29.3	-19.3	57.8	77.1	100	347
0.18	V	27.5	-30.7	-3.2	57.8	61	300	192
0.27	V	27.1	-30.6	-3.5	57.8	61.3	200	262
1.71	V	14.1	-30.3	-16.2	57.8	74	200	96
5.849	V	14	-30.3	-16.3	57.8	74.1	200	1
20.865	V	10.5	-29.4	-18.9	57.8	76.7	400	89



Tested by	Cheng Yee		
Test Date(s)	18 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 18		
Frequency Range	30 MHz to 1 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	10 m
Ambient Condition	22.9 °C, 58%RH		

Frequency [MHz]	(P)	Reading QP [dB(μV)]	Factor [dB(1/m)]	Level QP [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
72.51	H	53	-25.1	27.9	57.8	29.9	400	189
114.158	H	49.6	-19.2	30.4	57.8	27.4	400	321
828.01	H	43.9	-6.9	37	57.8	20.8	313.2	112
58.44	V	62.6	-25.4	37.2	57.8	20.6	207.6	62
101.647	V	54	-20.2	33.8	57.8	24	135.9	263
852.01	V	48.5	-6.8	41.7	57.8	16.1	114.1	87

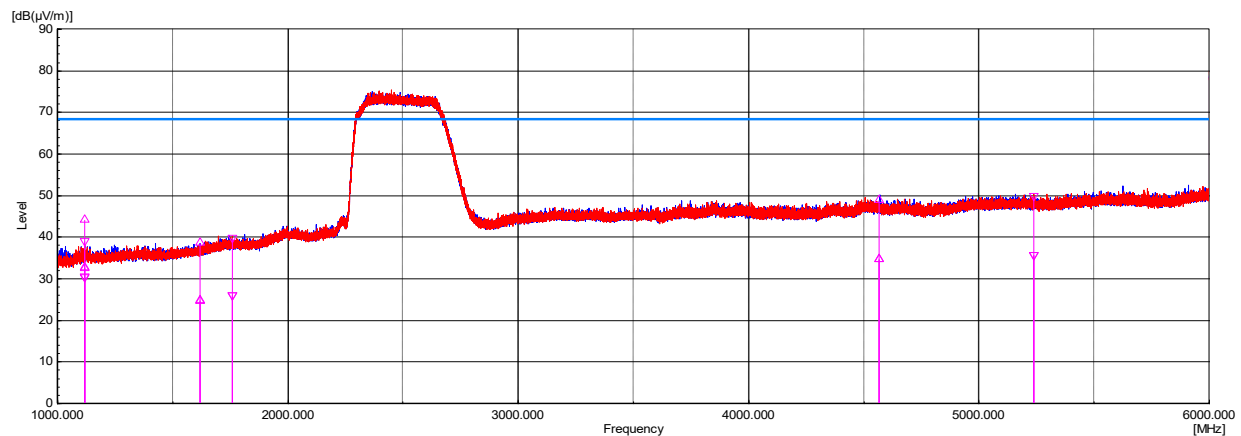
Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
72.323	H	55.4	-25.1	30.3	57.8	27.5	400	207
114.385	H	52.5	-19.2	33.3	57.8	24.5	400	352
827.998	H	45	-6.9	38.1	57.8	19.7	400	112
58.901	V	66.6	-25.4	41.2	57.8	16.6	200	40
101.649	V	62.2	-20.2	42	57.8	15.8	100	208
852.034	V	48.7	-6.8	41.9	57.8	15.9	100	66



Tested by	Izzat		
Test Date(s)	24 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 18		
Frequency Range	1 GHz to 6 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	3 m
Ambient Condition	25.2 °C, 58%RH		

Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1116.015	H	46.9	-2.7	44.2	68.3	24.1	146.1	62
1619.487	H	38.6	0.1	38.7	68.3	29.6	100	57
4567.769	H	38.7	10.3	49	68.3	19.3	400	4
5238.398	V	37.5	12.4	49.9	68.3	18.4	355.3	8
1760.572	V	38.1	1.8	39.9	68.3	28.4	400	106
1116.015	V	41.8	-2.7	39.1	68.3	29.2	185.1	111

Frequency [MHz]	(P)	Reading AV [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1116.015	H	35.3	-2.7	32.6	68.3	35.7	146.1	62
1619.487	H	24.6	0.1	24.7	68.3	43.6	100	57
4567.769	H	24.4	10.3	34.7	68.3	33.6	400	4
5238.398	V	23.2	12.4	35.6	68.3	32.7	355.3	8
1760.572	V	24.2	1.8	26	68.3	42.3	400	106
1116.015	V	33.1	-2.7	30.4	68.3	37.9	185.1	111

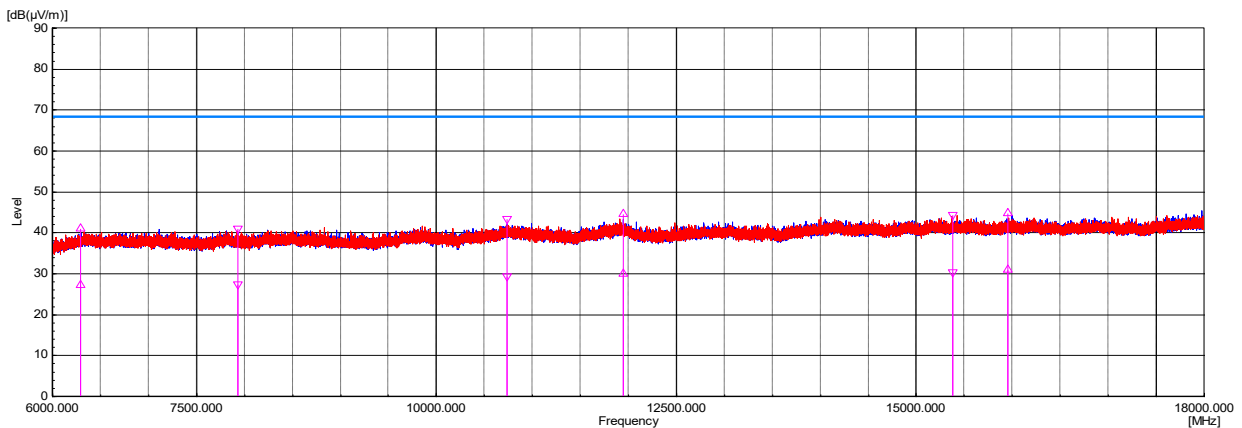


Note: 1. Band stop filter was used in this measurement due to the presence of an international signal from EUT in this band.
2. The purpose of this filter is to protect the measurement system from the strong intentional signal.

Tested by	Cheng Yee		
Test Date(s)	24 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 18		
Frequency Range	6 GHz to 18 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	3 m
Ambient Condition	23.2 °C, 59% RH		

Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [°]
6291.152	H	49.1	-8	41.1	68.3	27.2	164.3	109
11943.23	H	45.6	-1.1	44.5	68.3	23.8	381.7	354
15954.63	H	45.9	-1.2	44.7	68.3	23.6	389.8	221
7932.16	V	49.7	-8.6	41.1	68.3	27.2	302.7	157
10730.23	V	45.8	-2.4	43.4	68.3	24.9	314.8	202
15375.92	V	46	-1.7	44.3	68.3	24	390.4	86

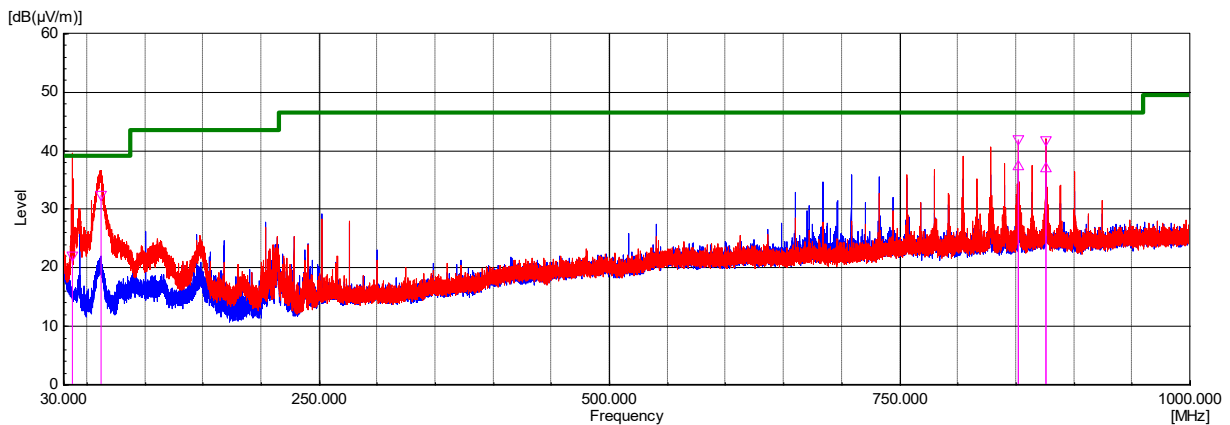
Frequency [MHz]	(P)	Reading AV [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]	Height [cm]	Angle [°]
6291.152	H	35.2	-8	27.2	68.3	41.1	164.3	109
11943.23	H	31.2	-1.1	30.1	68.3	38.2	381.7	354
15954.63	H	32.1	-1.2	30.9	68.3	37.4	389.8	221
7932.16	V	36	-8.6	27.4	68.3	40.9	302.7	157
10730.23	V	31.8	-2.4	29.4	68.3	38.9	314.8	202
15375.92	V	32.1	-1.7	30.4	68.3	37.9	390.4	86



Note: 1. Band stop filter was used in this measurement due to the presence of an international signal from EUT in this band.
2. The purpose of this filter is to protect the measurement system from the strong intentional signal.

Tested by	Cheng Yee		
Test Date(s)	18 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 15: Subpart B		
Frequency Range	30 MHz to 1 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	10 m
Ambient Condition	22.9 °C, 58% RH		

Frequency [MHz]	(P)	Reading QP [dB(μV)]	Factor [dB/m]	Level QP [dB(μA/m)]	Limit QP [dB(μA/m)]	Margin QP [dB]	Height [cm]	Angle [°]
37.347	V	40	-17.8	22.2	39.1	16.9	100.3	44
61.894	V	57.9	-25.4	32.5	39.1	6.6	271.7	358
852.012	V	48.8	-6.8	42	46.4	4.4	100.3	91
876.011	V	47.9	-6	41.9	46.4	4.5	100.4	89
852.011	H	44.1	-6.8	37.3	46.4	9.1	391.3	74
876.012	H	42.9	-6	36.9	46.4	9.5	303.1	97

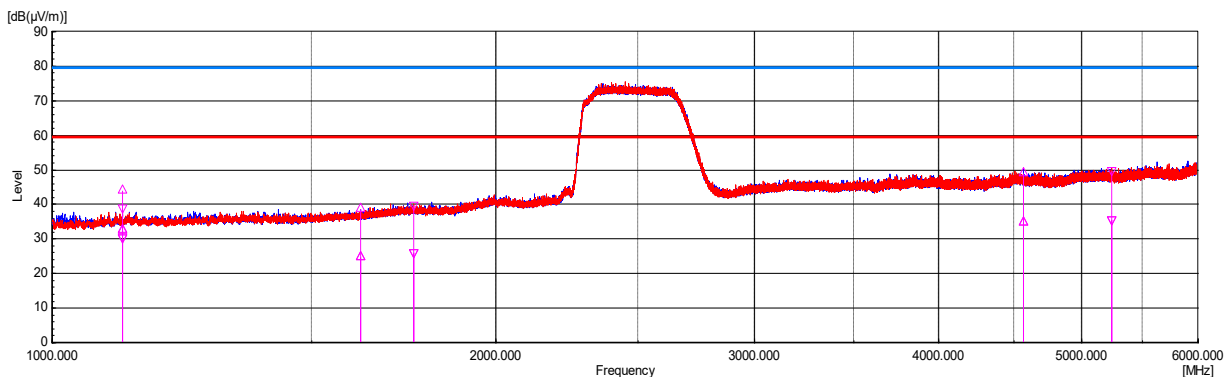


Note: For marker 37.347 MHz, the peak value exceeded limit, but final measurement for QP had been done and the QP value passed the limit.

Tested by	Izzat		
Test Date(s)	24 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 15: Subpart B		
Frequency Range	1 GHz to 6 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	3 m
Ambient Condition	25.2 °C, 58% RH		

Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB/m]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [°]
1116.015	H	46.9	-2.7	44.2	79.5	35.3	146.1	62
1619.487	H	38.6	0.1	38.7	79.5	40.8	100	57
4567.769	H	38.7	10.3	49	79.5	30.5	400	4
5238.398	V	37.5	12.4	49.9	79.5	29.6	355.3	8
1760.572	V	38.1	1.8	39.9	79.5	39.6	400	106
1116.015	V	41.8	-2.7	39.1	79.5	40.4	185.1	111

Frequency [MHz]	(P)	Reading AV [dB(μV)]	Factor [dB/m]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]	Height [cm]	Angle [°]
1116.015	H	35.3	-2.7	32.6	59.5	26.9	146.1	62
1619.487	H	24.6	0.1	24.7	59.5	34.8	100	57
4567.769	H	24.4	10.3	34.7	59.5	24.8	400	4
5238.398	V	23.2	12.4	35.6	59.5	23.9	355.3	8
1760.572	V	24.2	1.8	26	59.5	33.5	400	106
1116.015	V	33.1	-2.7	30.4	59.5	29.1	185.1	111

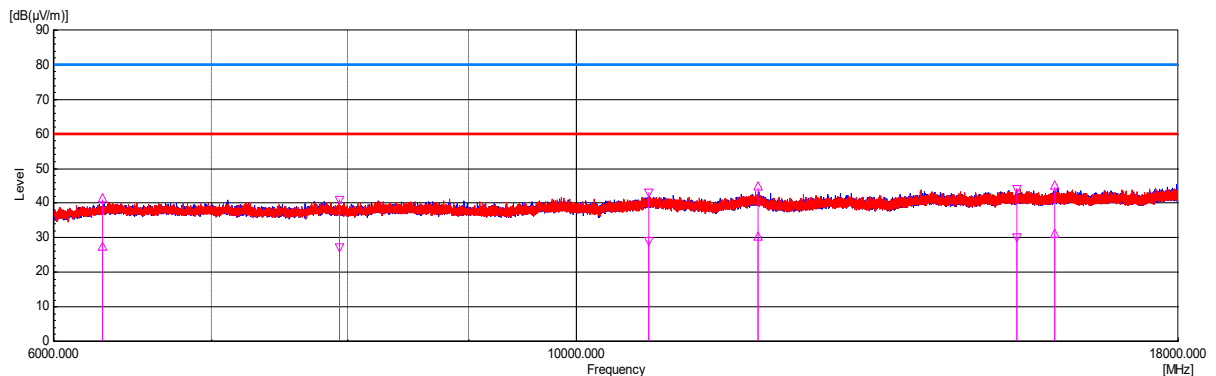


Note: 1. Band stop filter was used in this measurement due to the presence of an international signal from EUT in this band.
2. The purpose of this filter is to protect the measurement system from the strong intentional signal.

Tested by	Cheng Yee		
Test Date(s)	24 Jul 2025		
Test Site	☒ ①KT ☐ ②JK		
Test Standard	FCC CFR 47 Part 15: Subpart B		
Frequency Range	6 GHz to 18 GHz		
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20		
Serial Number	TPU-A2028, RX-A1011		
Test Configuration	Wireless Charging Operating Mode (Full load)		
Test Voltage	AC 120 V, 60 Hz	Measuring Distance	3 m
Ambient Condition	23.2 °C, 59% RH		

Frequency [MHz]	(P)	Reading PK [dB(μV)]	Factor [dB/m]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [°]
6291.152	H	49.1	-8	41.1	80	38.9	164.3	109
11943.23	H	45.6	-1.1	44.5	80	35.5	381.7	354
15954.63	H	45.9	-1.2	44.7	80	35.3	389.8	221
7932.16	V	49.7	-8.6	41.1	80	38.9	302.7	157
10730.23	V	45.8	-2.4	43.4	80	36.6	314.8	202
15375.92	V	46	-1.7	44.3	80	35.7	390.4	86

Frequency [MHz]	(P)	Reading AV [dB(μV)]	Factor [dB/m]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]	Height [cm]	Angle [°]
6291.152	H	35.2	-8	27.2	60	32.8	164.3	109
11943.23	H	31.2	-1.1	30.1	60	29.9	381.7	354
15954.63	H	32.1	-1.2	30.9	60	29.1	389.8	221
7932.16	V	36	-8.6	27.4	60	32.6	302.7	157
10730.23	V	31.8	-2.4	29.4	60	30.6	314.8	202
15375.92	V	32.1	-1.7	30.4	60	29.6	390.4	86



Note: 1. Band stop filter was used in this measurement due to the presence of an international signal from EUT in this band.
2. The purpose of this filter is to protect the measurement system from the strong intentional signal.

CONDUCTED EMISSION TEST

TEST OVERVIEW

Test Standard:	FCC CFR 47 Part 15: Subpart B ANSI C63.4-2014
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number(s)	TPU-A2028, RX-A1011
EUT Operating Mode(s)	Wireless Charging Operation Mode (Full load)
Ambient Condition	18 °C – 28 °C, ≤70%RH
Result:	PASS

TEST INSTRUMENTATION

Instrument	Model	Serial Number	Cal Due Date
Single Phase AC Power Source	EAL5060	1770225	N/A
3 Phase AC Power Source	AFC-33030V	F316020010	N/A
Line Impedance Stabilising NetWork (LISN)	LT32C/10	32032420356	10 Apr 2026
R&S EMI Test Receiver 7GHz	ESR7	102294	3 Jul 2026
Fluke Digital Multimeter	87V	63690044	15 Oct 2025

TEST SOFTWARE USED

Test Software	Software Version
TOYO EMI SOFTWARE EP7/CE	VER 8.0.50

LIMIT

Class A Limits for Conducted Disturbances at the A.C. Mains Port		
Frequency Range MHz	Quasi Peak Limit dBμV	Average Limit dBμV
0.009 to 0.05	150	-
0.05 to 0.15	130 decreasing linearly with logarithm of frequency to 120	-

Note 1	The lower limit shall apply at the transition frequency.
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Class A Limits for Conducted Disturbances at the A.C. Mains Port		
Frequency Range MHz	Quasi Peak Limit dBμV	Average Limit dBμV
0.15 to 0.50	79	66
0.5 to 30	73	60

Note 1	The lower limit shall apply at the transition frequency.
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TEST SET-UP DETAILS

- The test was set-up in accordance with the requirements of FCC Part 15, without modification.
- Prior to testing, an ambient verification scan was performed on both the LIVE and NEUTRAL a.c. mains connections, in addition to that of the telecom port. This ensured the background noise level was sufficiently low as to not influence the overall readings when the EUT was measured.
- For a.c. mains port testing, the EUT is powered via a Line Impedance Stabilization Network (LISN). The EUT was then switched on and allowed to warm up to its normal operation condition. The EUT was then exercised to verify correct operation. Signals emitted by the EUT via its a.c. mains port were measured with an EMI receiver connected to the LISN.
- The EMI receiver test software first performed a pre-scan measurement in the range of 90kHz to 150kHz and 150 kHz to 30 MHz for both LIVE and NEUTRAL using a PEAK detector. Emissions which have less than 6 dB to the AVERAGE limit were selected, creating a suspect list. All frequencies on the suspect list were then re-measured using QUASI-PEAK (QP) and AVERAGE (AVG) detectors, with an EMI receiver bandwidth setting of 9 kHz. The QP and AVG readings were recorded in a final measurement list.
- A similar process was used when measuring the telecom port test, but with the EMI receiver connected to the Telecom LISN. A suspect and final measurement list were also created.

Notes:

Disturbance voltage is reported in dB μ V.

- QP/AV/PK level (dB μ V) = Receiver reading (dB μ V) + Correction factor (dB).
- Correction Factor (dB) = LISN factor (dB) + RF cable loss (dB).
- QP/AV/PK Margin (dB) = QP/AV/PK limit (dB μ V) – QP/AV/PK level (dB μ V).

Disturbance current is reported in dB μ A.

- QP/AV/PK level (dB μ A) = Receiver reading (dB μ V) + Correction factor (dB(μ A/ μ V)).
- Correction Factor (dB(μ A/ μ V)) = Current Probe factor (dB(μ A/ μ V)) + RF cable loss (dB).
- QP/AV/PK Margin (dB) = QP/AV/PK limit (dB μ A) – QP/AV/PK level (dB μ A).

TEST DATA GRAPH LEGEND

 Neutral - QP

 Neutral - AVG

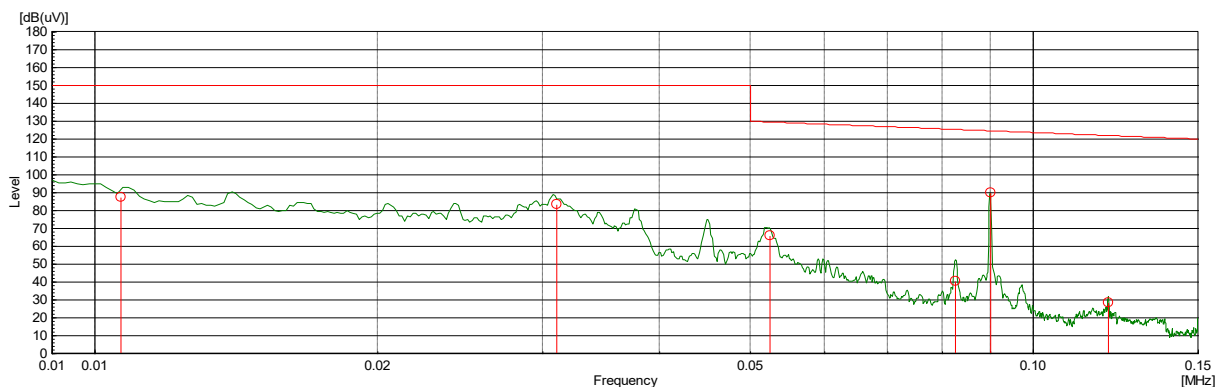
 Live - QP

 Live - AVG

CONDUCTED EMISSION TEST DATA

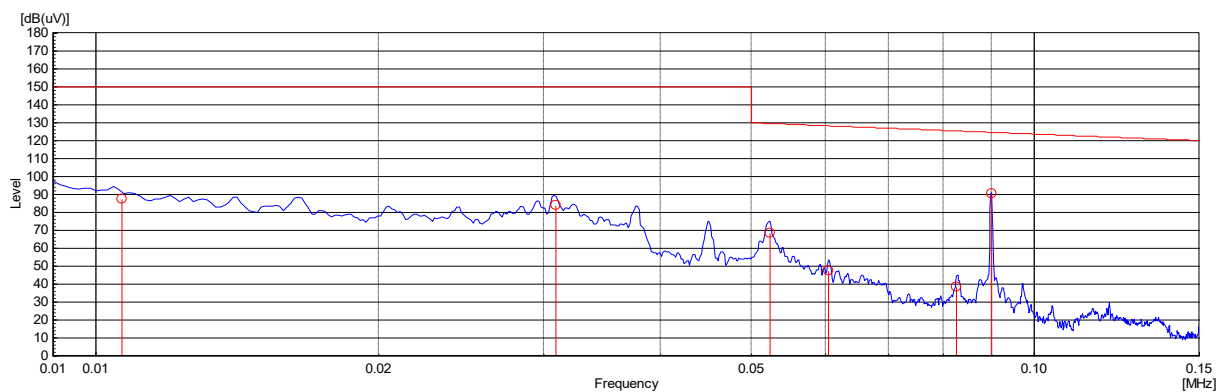
Tested by	Cheng Yee
Test Date(s)	30 Jul 2025
Test Site	☒ ①KT ☐ ②JK
Port Tested	☒ Mains: Neutral ☐ Telecom – LAN (10 / 100 / 1000 Mbps)
Frequency Range	0.009 MHz to 0.15 MHz
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number	TPU-A2028, RX-A1011
Test Configuration	Wireless Charging Operation Mode (Full load)
Test Voltage	AC 120 V, 60 Hz
Ambient Condition	26 °C, 45% RH

Frequency [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB(uV)]	Margin [dB]
0.01064	74.8	12.5	87.3	150	62.7
0.03104	72.4	11	83.4	150	66.6
0.05245	55.3	10.8	66.1	129.6	63.5
0.08262	29.9	10.8	40.7	125.4	84.7
0.09	79.1	10.7	89.8	124.6	34.8
0.12024	18	10.7	28.7	122	93.3



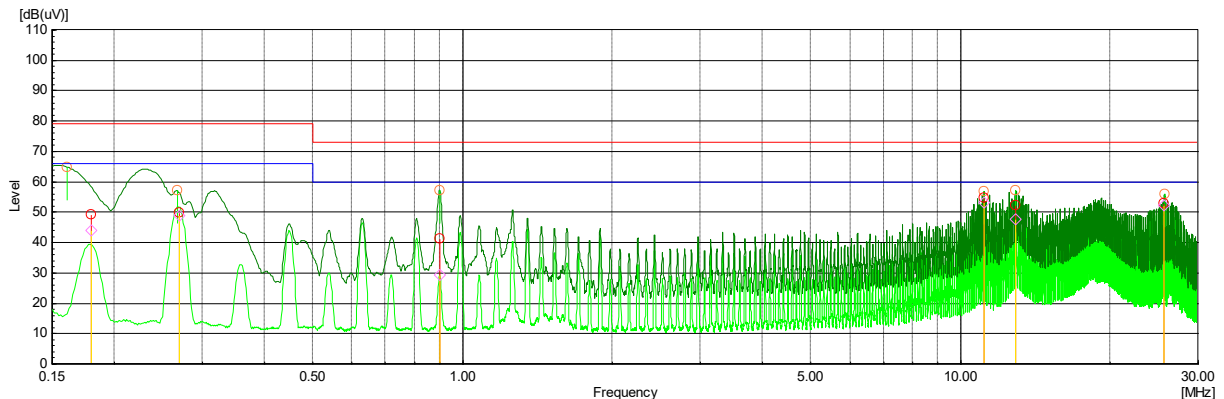
Tested by	Cheng Yee
Test Date(s)	30 Jul 2025
Test Site	☒ ①KT ☐ ②JK
Port Tested	☒ Mains: Live ☐ Telecom – LAN (10 / 100 / 1000 Mbps)
Frequency Range	0.009 MHz to 0.15 MHz
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number	TPU-A2028, RX-A1011
Test Configuration	Wireless Charging Operation Mode (Full load)
Test Voltage	AC 120 V, 60 Hz
Ambient Condition	26 °C, 45%RH

Frequency [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB(uV)]	Margin [dB]
0.01065	75	12.5	87.5	150	62.5
0.03092	72.8	11	83.8	150	66.2
0.05227	57.6	10.8	68.4	129.6	61.2
0.06041	36.7	10.8	47.5	128.3	80.8
0.08263	27.6	10.8	38.4	125.4	87
0.09	79.9	10.8	90.7	124.6	33.9



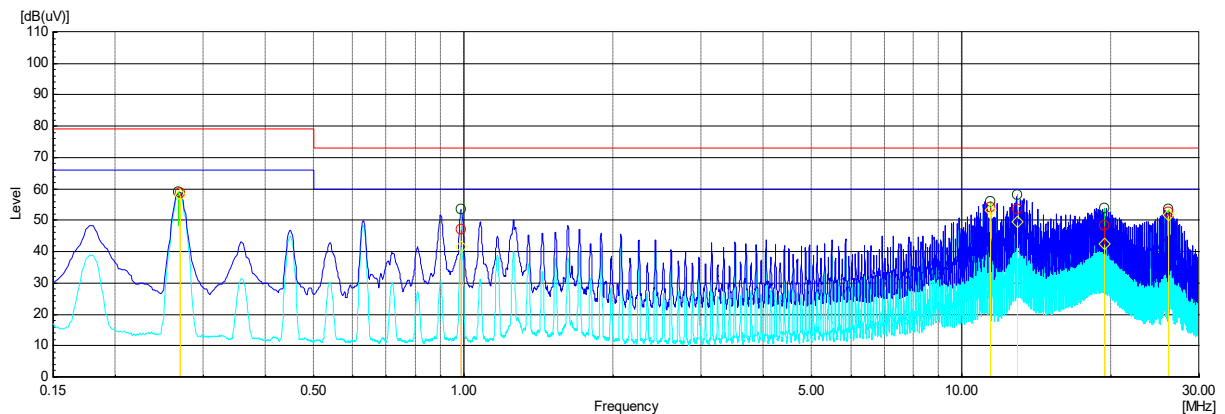
Tested by	Cheng Yee
Test Date(s)	18 Jul 2025
Test Site	☒ ①KT ☐ ②JK
Port Tested	☒ Mains: Neutral ☐ Telecom – LAN (10 / 100 / 1000 Mbps)
Frequency Range	0.15 MHz to 30 MHz
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number	TPU-A2028, RX-A1011
Test Configuration	Wireless Charging Operation Mode (Full load)
Test Voltage	AC 120 V, 60 Hz
Ambient Condition	23.2 °C, 56%RH

Frequency [MHz]	Reading QP [dBμV]	Reading AVG [dBμV]	Factor [dB]	Level QP [dBμV]	Level AVG [dBμV]	Limit QP [dBμV]	Limit AVG [dBμV]	Margin QP [dB]	Margin AVG [dB]
0.18919	23.9	10.2	10.7	34.6	20.9	100	90	65.4	69.1
1.08008	36.8	22.5	10.7	47.5	33.2	86	76	38.5	42.8
11.4296	46.5	45.6	10.8	57.3	56.4	82.2	70.8	24.9	14.4
12.95828	42.6	35.3	10.7	53.3	46	81	69.4	27.7	23.4
18.6283	39.8	33.5	10.7	50.5	44.2	77.5	65.3	27	21.1
25.64912	39.9	39.1	10.6	50.5	49.7	74.5	61.7	24	12



Tested by	Cheng Yee
Test Date(s)	18 Jul 2025
Test Site	☒ ①KT ☐ ②JK
Port Tested	☒ Mains: Live ☐ Telecom – LAN (10 / 100 / 1000 Mbps)
Frequency Range	0.15 MHz to 30 MHz
Test Model Number(s)	TX18PH-AU20 RX4803PH-AU20
Serial Number	TPU-A2028, RX-A1011
Test Configuration	Wireless Charging Operation Mode (Full load)
Test Voltage	AC 120 V, 60 Hz
Ambient Condition	23.2 °C, 56%RH

Frequency [MHz]	Reading QP [dBμV]	Reading AVG [dBμV]	Factor [dB]	Level QP [dBμV]	Level AVG [dBμV]	Limit QP [dBμV]	Limit AVG [dBμV]	Margin QP [dB]	Margin AVG [dB]
0.26758	48.7	47.8	10.7	59.4	58.5	100	90	40.6	31.5
1.08159	36.6	22.4	10.8	47.4	33.2	86	76	38.6	42.8
11.24871	48.1	47.1	10.9	59	58	82.3	70.9	23.3	12.9
12.68845	44.1	41.8	10.8	54.9	52.6	81.2	69.6	26.3	17
18.72025	39	31.7	10.8	49.8	42.5	77.5	65.3	27.7	22.8
25.84509	23.6	13.3	10.7	34.3	24	74.4	61.7	40.1	37.7





END OF TEST REPORT