

Report No.: SUCR241200051807
Rev.: 01
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TEST REPORT

Application No.: SUCR2412000518IT
Applicant: Wacom Co., Ltd
Address of Applicant: 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan
Manufacturer: Wacom Co., Ltd
Address of Manufacturer: 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan
EUT Description: Portable Pad
Model No.: DTHA116, DTHA116*****(" " maybe alphanumeric/symbol or blank)
Trade Mark: Wacom
FCC ID: HV4DTHA116
Standards: FCC 47 CFR Part 15, Subpart C 15.225
Date of Receipt: December 4, 2024
Date of Test: December 14, 2024 to January 22, 2025
Date of Issue: January 23, 2025

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Nature Shen

Cloud Peng

Prepared by: Nature Shen/ Project Manager

**Approved by: Cloud Peng/
Technical Manager**

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		January 23, 2025		Original

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1 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result	Test Lab*
Antenna Requirement	15.203	--	Clause 3.1	PASS	--
99% Occupied Bandwidth	15.215(c)	ANSI C63.10 2013 Section 6.9.3	Clause 3.3	PASS	A
Radiated Emissions (9kHz-30MHz)	15.225(a)(b)(c)	ANSI C63.10 2013 Section 6.4.7	Clause 3.4	PASS	C
AC Power-line Conducted Emissions	15.207	ANSI C63.10 (2013) Section 6.2	Clause 3.5	PASS	C

Remark:

Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Lab B SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab C SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

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2 General Information

2.1 Details of Client

Applicant:	Wacom Co., Ltd
Address of Applicant:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan
Manufacturer:	Wacom Co., Ltd
Address of Manufacturer:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan

2.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Aiden_Ma
Lab C:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Abbott Wang

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2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

Lab C:

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

- **FCC –Designation Number: CN1337**

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Designation Number: CN1337.

Test Firm Registration Number: 917410

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2.4 General Description of EUT

EUT Description:	Portable Pad
Model No.:	DTHA116, DTHA116*****(" " maybe alphanumeric/symbol or blank)
Trade Mark:	Wacom
Hardware Version:	V3
Software Version:	1V01SU.03.00.00
Power Supply:	3.45~4.33V, typ3.86V
Operation Frequency:	531.25KHz/562.5KHz/593.75KHz/666.67KHz
Modulation Type:	ASK
Antenna Type:	Coil antenna
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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2.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.86

2.6 Description of Support Units

Description	Manufacturer	Model No.
USB cable	HUIZHOU WASHIN ELECTRONICS CO.,LTD	HX-HQ-28
Touch Pen	MUTO-FONSTAR TECHNOLOGYS(SUZHOU)CO.,LTD.	CP-903E-38B-2
Touch Pen	LUXSHARE-ICT (VIETNAM) LIMITED	ACP-500
Remark: all above the information of table are provided by client.		

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3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
The antenna of the EUT are permanently attached.	

3.2 Worst-case configuration and mode

The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The X orientation was determined to be the worst-case orientation.

Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.

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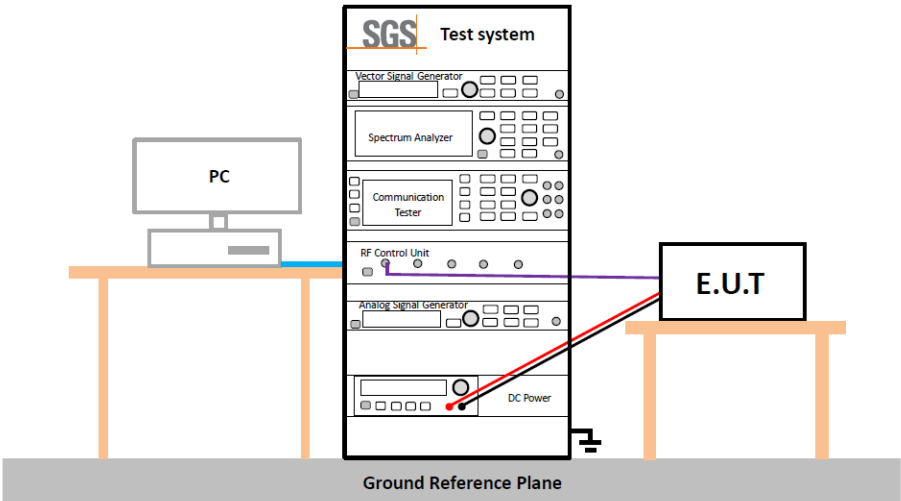
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3.3 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215(c)
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Limit:	Intentional radiators must be designed to ensure that the 99% emission bandwidth in the specific frequency range 531.25~666.67KHz.
Test Results:	Pass
The detailed test data see: Appendix	

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3.4 Radiated Emissions (9kHz-30MHz)

Test Requirement:	47 CFR Part 15C Section 15.225			
Test Method:	ANSI C63.10 :2013 Section 6.4.7			
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency (MHz)	Field Strength (μ V/m)	Field Strength (dB μ V/m)	Measure Distance (m)
	0.009-0.490	2400/F(kHz)	48.5 - 13.8	300
	0.490-1.705	24000/F(kHz)	33.8 - 23	30
	1.705-30.0	30	29	30
	30~88	100	40	3
	88~216	150	43.5	3
	216~960	200	46	3
	Above 960	500	54	3

Test Setup:

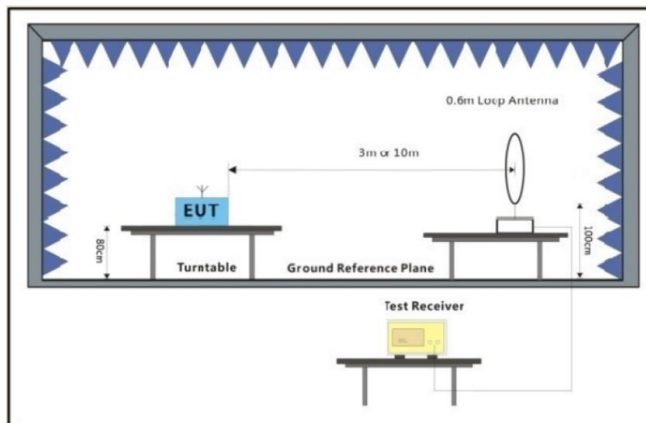


Figure 1. Below 30MHz

Test Procedure:	<p>Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</p> <p>Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results</p>
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	<p>shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.</p> <p>Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.</p> <p>a. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>b. Repeat above procedures until all frequencies measured was complete.</p> <p>c. RBW set to 9kHz.</p>
Exploratory Test Mode:	Transmitting with modulation. Adapter + Transmitting mode.
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Adapter + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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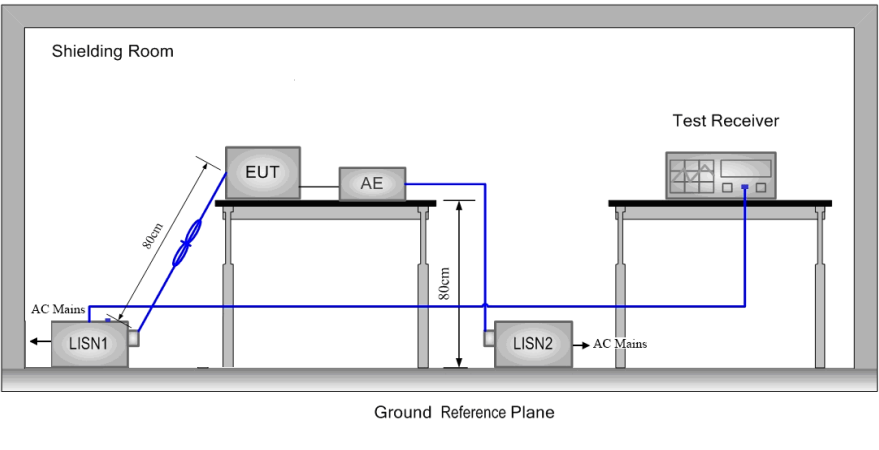
3.5 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none">1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

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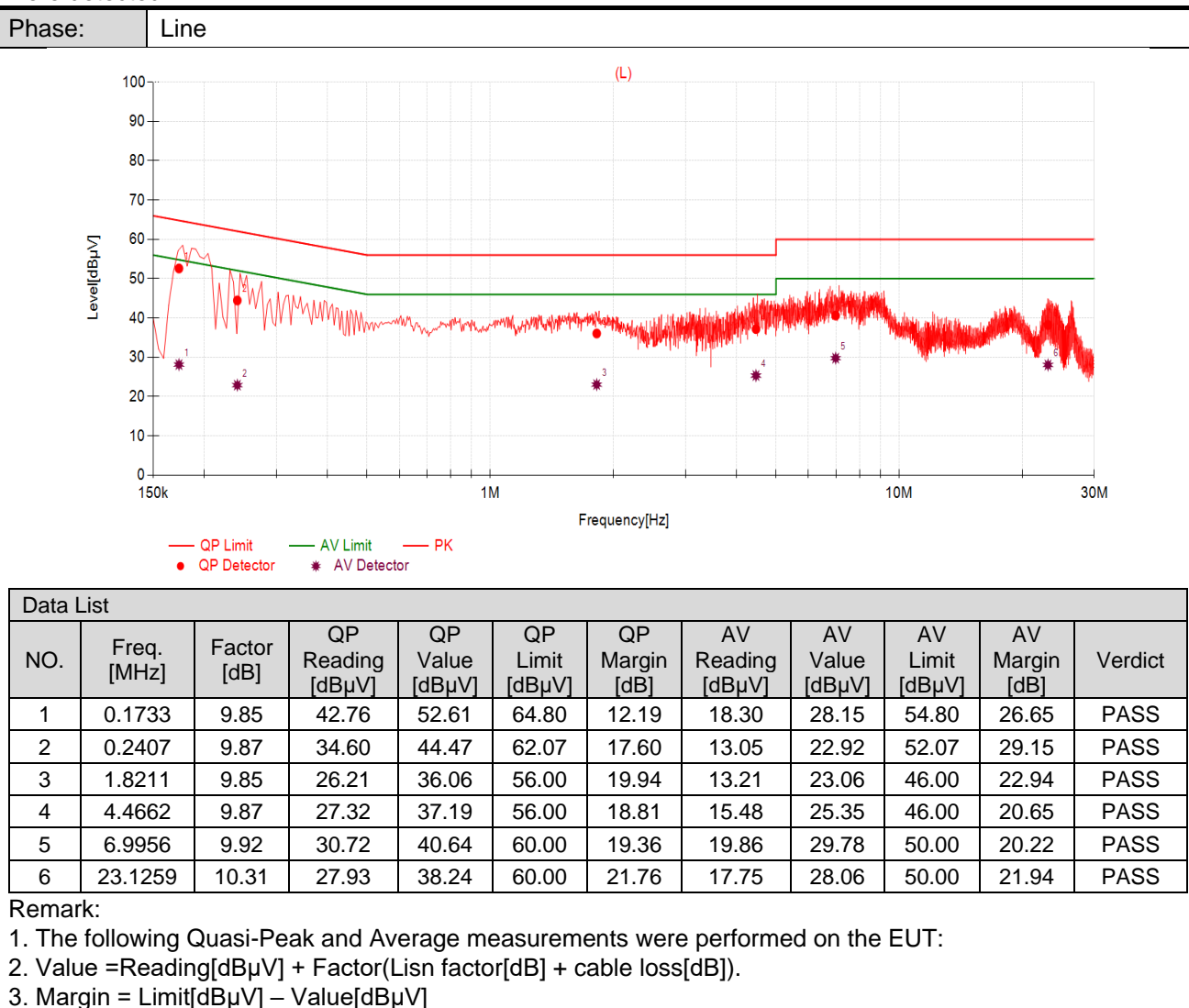
Test Setup:	
Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Adapter + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Adapter + Transmitting mode Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass

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Measurement Data

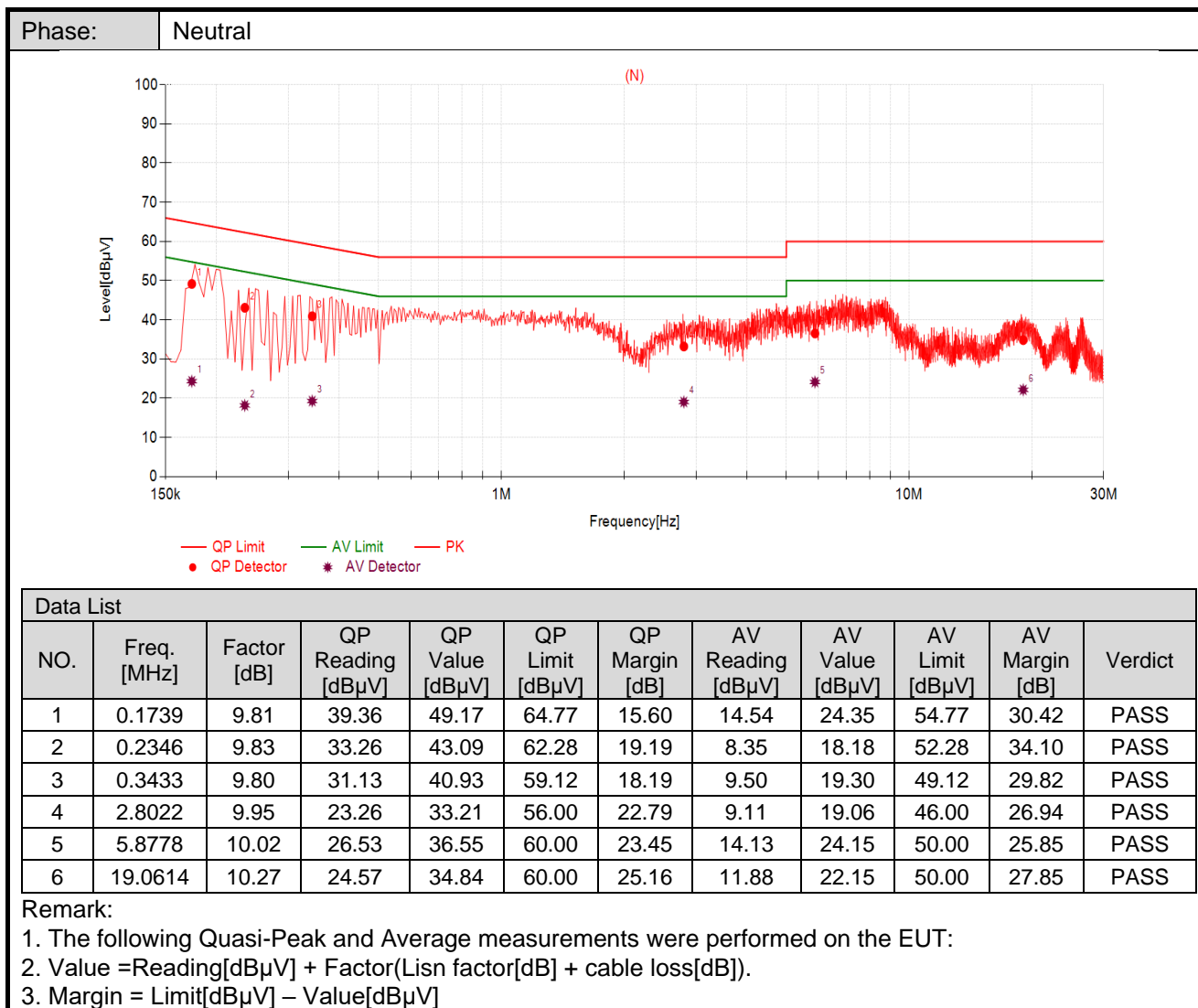
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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4 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:		
No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	1%
Lab C:		
No.	Item	Measurement Uncertainty
1	Radiated Emission	± 4.6dB (9KHz~30MHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		

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5 Equipment List

Lab A:					
RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/9	2025/11/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/2/18	2025/2/17
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/5/8	2025/5/7
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR

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Lab C:					
RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2024/6/4	2027/6/3
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2024/2/2	2025/2/1
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2024/5/8	2025/5/7
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/7/28	2025/7/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/7/28	2025/7/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/7/23	2025/7/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2024/5/14	2025/5/13
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2024/8/29	2025/8/28
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2024/8/16	2025/8/15
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2024/8/29	2025/8/28
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Radio Communication Analyzer	ANRITSU	MT8821	XAW01-03-24	2024/8/16	2025/8/15
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2024/5/23	2026/5/22

Remark: NCR=No Calibration Requirement.

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6 Photographs - Setup Photos

Refer to Appendix A.2 BT&WLAN&EMR Setup Photos.

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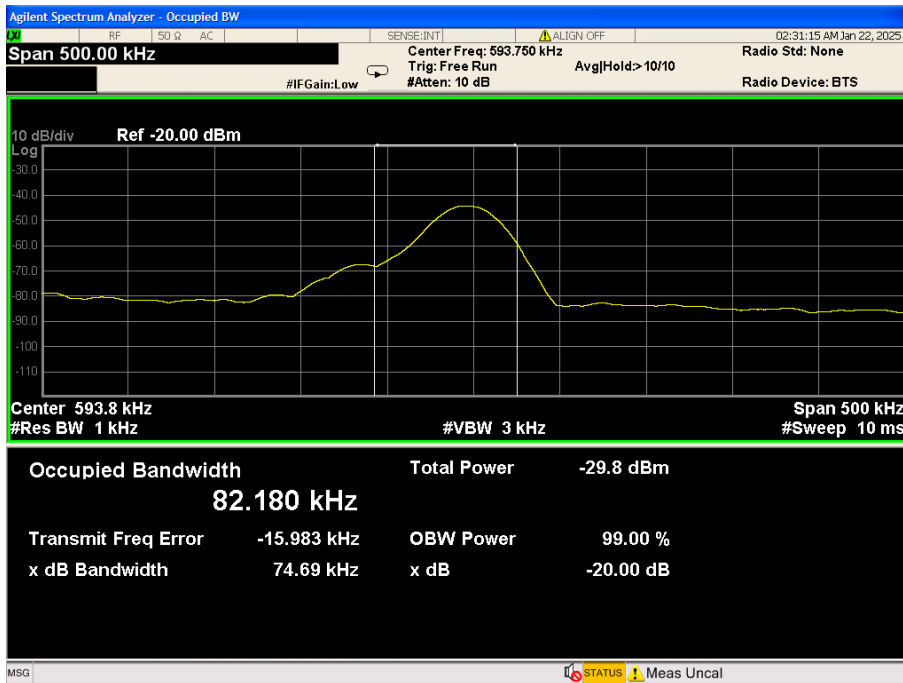
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7 Appendix 99% Bandwidth



Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always vary with the RBW.

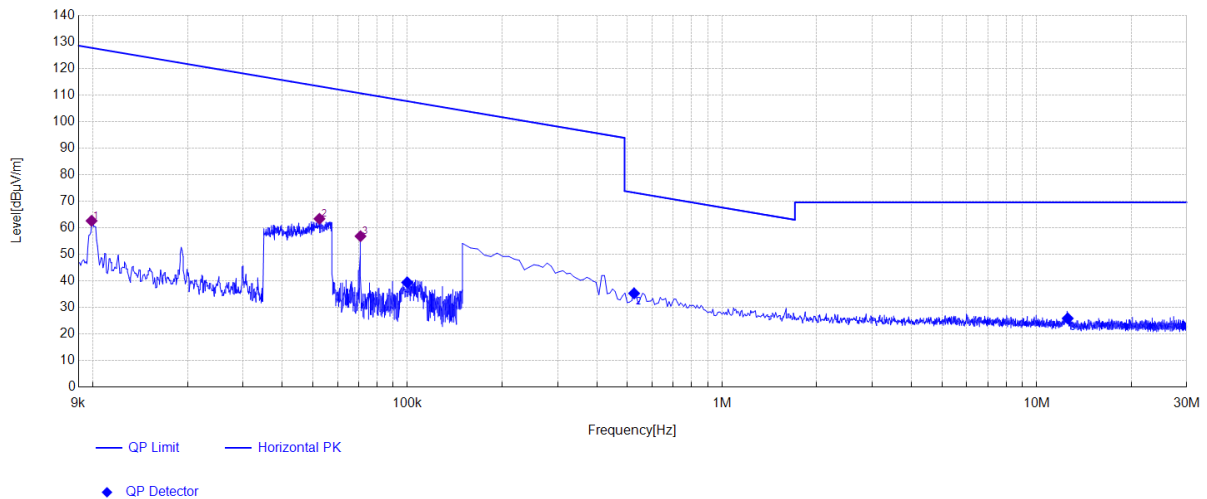
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Radiated Emissions(9kHz-30MHz)

Polarization: Horizontal



Data List

NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	0.0998	20.30	0.05	19.05	39.40	107.62	68.22	Coaxial
2	0.5254	20.19	0.01	15.07	35.27	73.19	37.92	Coaxial
3	12.5626	20.52	0.20	5.14	25.86	69.54	43.68	Coaxial
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	AV Reading[dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	0.0099	20.20	0.03	42.35	62.58	127.67	65.09	Coaxial
2	0.0525	20.19	0.04	43.12	63.35	113.19	49.84	Coaxial
3	0.0709	20.11	0.04	36.65	56.80	110.58	53.78	Coaxial

Remark:

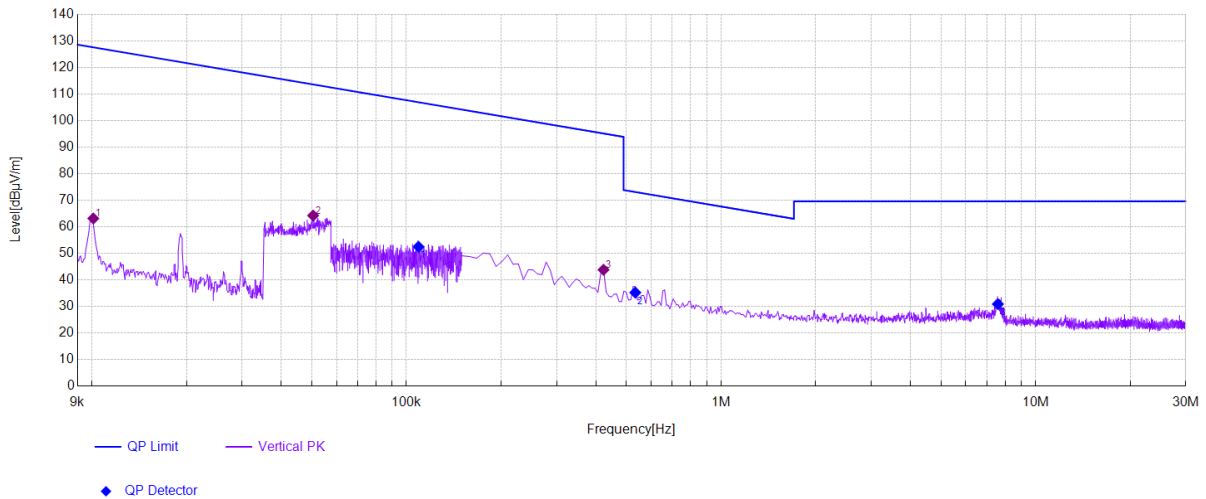
1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.

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Polarization: Vertical



Data List

NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	0.1092	20.30	0.05	32.1	52.45	106.84	54.39	Coplanar
2	0.5339	20.19	0.01	15.01	35.21	73.05	37.84	Coplanar
3	7.589	20.47	0.18	10.23	30.88	69.54	38.66	Coplanar
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	AV Reading[dBμV]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	0.0101	20.21	0.03	42.86	63.10	127.54	64.44	Coplanar
2	0.0505	20.20	0.04	43.95	64.19	113.53	49.34	Coplanar
3	0.423	20.24	0.02	23.53	43.79	95.08	51.29	Coplanar

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Antenna Factor + Factor.
3. Factor=Cable loss.

---End of Report---

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