

TEST REPORT

Report No.:	8235EU012609W			
Applicant:	Hong Kong Etech Groups Ltd.			
Address:	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China			
Product Name:	Wireless Mouse Dongle			
Model No.:	EAA2-240452A (refer to clause 2.4)			
Trademark:	N/A			
FCC ID:	2A3ZO-EAA2			
Test Standard(s):	47 CFR Part 15 Subpart C			
Date of Receipt:	Nov, 26, 2024			
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ISSUED BY: SHENZHEN EU TESTING LABORATORY

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2 General Information

2.1 Applicant Information

Applicant	Hong Kong Etech Groups Ltd.	
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China	

2.2 Manufacturer Information

Manufacturer	Hong Kong Etech Groups Ltd.		
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China		

2.3 Factory Information

Factory	Hong Kong Etech Groups Ltd.		
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China		

2.4 General Description of E.U.T.

Product Name	Wireless Mouse Dongle			
Model No. Under Test	EAA2-240452A			
List Model No.	WM-ES45-RS, WM-ES45-RD, WS-ES45-FP, EAA2-240454A, EAA2-240453A			
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance and model name. (this information provided by the customer)			
Rating(s)	Input: 5.0V===1.0A			
Product Type	 Mobile Portable Fix Location 			
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)			
Hardware Version	BD-2PCB-V1.0			
Software Version	YC1011-N_V1.2.5			
Remark	 The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. For a more detailed features description, please refer to the manufacturer' specifications or the User's Manual. 			

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2.5 Technical Information of E.U.T.

Network and	
Wireless Connectivity	2.4G ISM Proprietary Band

The requirement for the following technical information of the EUT was tested in this report:

Technology	2.4G ISM Proprietary Band			
Modulation Technology	DTS			
Modulation Type	GFSK			
Operating Frequency	2402-2479MHz			
Test Channel	00(2402), 08(2446), 15(2479)			
Number of Channel	16			
Antenna Type	PCB Antenna			
Antenna Gain(Peak)	3.55 dBi			
Remark	 The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. The operating frequency has 16 channels, divided into four groups, and one group of communication is randomly used at a time. 			

All channels were listed on the following table:

Group	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	00	2402	04	2421	08	2446	12	2468
2	01	2408	05	2423	09	2456	13	2474
3	02	2417	06	2428	10	2460	14	2478
4	03	2419	07	2437	11	2451	15	2479

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3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Channel	Verdict	Remark
1	Antenna Requirement	15.203	N/A	Pass	Note ¹
2	Conducted Emission at AC Power Line	15.207	Low/Middle/High	Pass	
3	Occupied Bandwidth	15.247(a)(2)	Low/Middle/High	Pass	
4	Maximum Conducted Output Power	15.247(b)(3)	Low/Middle/High	Pass	
5	Power spectral density (PSD)	15.247(e)	Low/Middle/High	Pass	
6	Emissions in Non-restricted Frequency Bands (Conducted)	15.247(d)	Low/Middle/High	Pass	
7	Band Edge Emissions (Restricted frequency bands)	15.209 15.247(d)	Low/High	Pass	
8	Radiated Spurious Emission	15.209 15.247(d)	Low/Middle/High	Pass	
Nata	1. The FUT has a norman anthy and i	waalaaaala attaabad	antonno uchich comm		

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

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4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%		
Atmospheric Pressure	86 kPa to 106 kPa		
Temperature	NT (Normal Temperature)	+15℃ to +35℃	
Working Voltage of the EUT	NV (Normal Voltage)	5.0VDC via USB Port	

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2024/01/09	2025/01/08
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-014	N.C.R	N.C.R

Radiated Emission an	d RF Test				
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2024/01/09	2025/01/08
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	2026/01/13
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/12	2026/01/11
Pre-amplifier	Agilent	8447D	EE-009	2024/01/09	2025/01/08
Pre-amplifier	Agilent	8449B	EE-010	2024/01/09	2025/01/08
MXA Signal Analyzer	Agilent	N9020A	EE-011	2024/01/09	2025/01/08
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-015	N.C.R	N.C.R
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2024/01/09	2025/01/08
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	N.C.R	N.C.R
Antenna Mast	TOP Precision	TPBAM-4	EE-306	N.C.R	N.C.R
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2024/02/15	2025/02/14
Loop Antenna	TESEQ	HLA6121	EE-403	2024/02/15	2025/02/14
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2024/02/15	2025/02/14
DRG Horn Antenna	SCHWARZBECK	BBHA 9170	EE-410	2024/02/15	2025/02/14
Pre-amplifier	SKET	LNPA-1840-50	EE-411	2024/02/15	2025/02/14
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2024/07/30	2025/07/29

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TRF No.: FCC Part 15 Subpart C_2.4G (A02)

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4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Notebook	Lenovo	Xiaoxin Air 14ALC 2021	EMC-PJ-052

4.4 Test Mode

No.	Test Modes	Description
TM1	2.4G TX Mode	Keep the EUT connect to AC power line and works in continuously
	2.10 1/(11000	2.4GHz transmitting mode.

4.5 Description of Calculation

4.5.1. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4.5.2. Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

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4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty		
Conducted Emission	2.64 dB		
Occupied Channel Bandwidth	2.8 %		
RF output power, conducted	0.68 dB		
Power Spectral Density, conducted	1.37 dB		
Unwanted Emissions, conducted	1.84 dB		
Radiated Emission (9kHz- 30MHz)	Ur = 2.50 dB		
Radiated Emission	Ur = 2.70 dB (Horizontal)		
(30MHz- 1GHz)	Ur = 2.70 dB (Vertical)		
Radiated Emission	Ur = 3.50 dB (Horizontal)		
(1GHz- 18GHz)	Ur = 3.50 dB (Vertical)		
Radiated Emission	Ur = 5.15 dB (Horizontal)		
(18GHz- 40GHz)	Ur = 5.24 dB (Vertical)		
Temperature	0.8°C		
Humidity	4%		

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Condition

None.

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5 Test Items

5.1 Antenna requirement

5.1.1 Test Requirement

Test Requirement	According to FCC §15.203, 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.
	reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point- to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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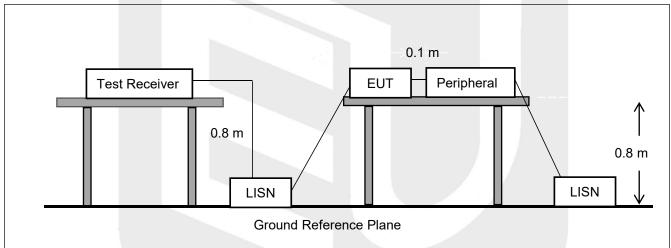


5.2 Conducted Emission at AC Power Line

5.2.1 Test Requirement

Test Requirement	Except as shown in paragraphs (b) that is designed to be connected to frequency voltage that is conducted or frequencies, within the band 150 the following table, as measured us stabilization network (LISN).	the public utility (AC) pow back onto the AC power kHz to 30 MHz, shall not	rer line, the radio line on any frequency exceed the limits in				
	Frequency of emission (MHz)	Hz) Conducted limit (dBµV)					
		Quasi-peak	Average				
To add inclu	0.15-0.5	66 to 56*	56 to 46*				
Test Limit	0.5-5	56	46				
	5-30	60	50				
	*Decreases with the logarithm of the frequency.						
Test Method	ANSI C63.10-2020 section 6.2						

5.2.2 Test Setup Diagram



5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz. The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

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Conducted Emission Test Data

est Site	e:		Sh	ielded R	oom #1				
est Mo	de:		TN	/1/ CH Mi	ddle				
omme	nts:		Liv	/e Line					
80.	0_dBuV								
70									
60								FCC	C Part15 CE-Class B_QP
	to								Part15 CE-Class B_AVG
50	h							ru	
40	n. mu								
10	∦ \	Myst N			3 methods i		5	Z	9 11
30	HhA	MAN		. Mark	Phone Antonia	mul	MA HAL	Â	home water hast
	1 1.1	M O AN	"the show	nthey/philling	- Auguranter	All	6 W	~~\V	10 12 My peak
20	4	A AA		white		N.	MAN /	~1	When AVG
10		A.M. A.A	might	WWW		VM	I V	V	V N
10									
0.									
	0.150	0.	.500		(MHz)		5.000		30.000
NI	Frequency	Reading	Factor	Level	Limit	Margin	Datastas	DIE	Demonde
No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	P/F	Remark
1 *	0.1635	45.68	9.96	55.64	65.28	-9.64	QP	Ρ	
2	0.1635	27.47	9.96	37.43	55.28	-17.85	AVG	Ρ	
3	1.9455	26.05	10.02	36.07	56.00	-19.93	QP	Ρ	
4	1.9455	14.50	10.02	24.52	46.00	-21.48	AVG	P	
5	4.3439	23.73	10.04	33.77	56.00	-22.23	QP	P P	
6	4.3439	10.39	10.04	20.43 33.76	46.00	-25.57	AVG	P	
7 8	8.0970 8.0970	23.77 13.99	9.99 9.99	23.98	60.00 50.00	-26.24	QP AVG	P	
	14.1450	23.40	9.99	33.37	60.00	-26.63	2012/01/01/01	P	
		14.84	9.97	24.81	50.00	-25.19		P	
9	14,1450			1000000				P	
	14.1450 22.9965	22.41	10.14	32.55	60.00	-27.45	QP		

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Conducted Emission Test Data

est Sit	te:		Sh	ielded R	oom #1				
est Mo	ode:		TN	/11/ CH Mi	iddle				
omme	ents:		Ne	eutral Line)				
80	.0 dBuV			1 1		1			
70									
60	1					_		FCC	Part15 CE-Class B_QP
	V							FCC	Part15 CE-Class B_AVG
50	man								
40	\$ Y	Mar 3							
40	MA	10 MARY			5			1 M	9 11
30	hry	AA	4		MAN MAN	Walt UNWAY		Ment 1	hu Martin Mart
	V V	VIIIA	W WWWWWWW	Assurance And My Ma	S.	and Man.	. Manual and	11/1	
20		<u> </u>		adapt tort	ANNIN	10		M	peak
		1	1 March 199	had a horas	~ *	M. M	WARTS AND		M. AVG
10						W			An A
	.0								
	0.150	0	.500		(MHz)		5.000		30.000
	Frequency	Reading	Factor	Level	Limit	Margin			
No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	P/F	Remark
1 *	0.1770	45.81	9.96	55.77	64.63	-8.86	QP	Ρ	
2	0.1770	31.47	9.96	41.43	54.63	-13.20	AVG	Ρ	
3	0.3975	30.04	10.02	40.06	57.91	-17.85	QP	Ρ	
4	0.3975	22.47	10.02	32.49	47.91	-15.42	AVG	Ρ	
5	2.3415	24.69	10.03	34.72	56.00	-21.28	QP	Ρ	
6	2.3415	12.81	10.03	22.84	46.00	-23.16	AVG	P	
7	7.0215	27.70	10.01	37.71	60.00	-22.29		P	
8	7.0215	13.07	10.01	23.08	50.00	-26.92		P	
9 10	16.6425	22.70	10.00	32.70	60.00	-27.30		P P	
10	16.6425 21.7320	13.11 23.07	10.00 10.11	23.11 33.18	50.00 60.00	-26.89 -26.82	Stand racing side	P	
Sector Sector	21.1320	20.07	10.11	33.10	00.00	-20.02	QP	F	
11 12	21.7320	11.41	10.11	21.52	50.00	-28.48	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

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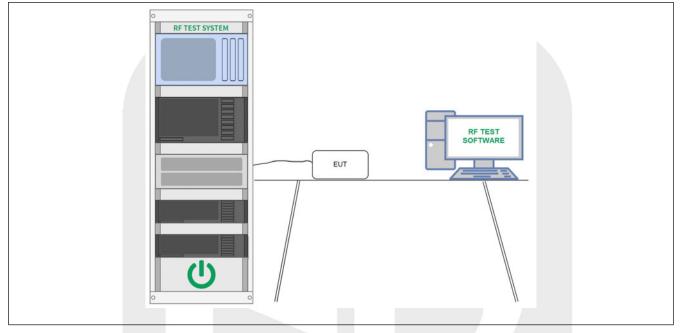


5.3 DTS Bandwidth

5.3.1 Test Requirement

Test Requirement	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method	ANSI C63.10-2020 section 11.8

5.3.2 Test Setup Diagram



5.3.3 Test Procedure

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

- b) Set the VBW >= [3 × RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Data

PASS.

Please refer to Annex D for details.

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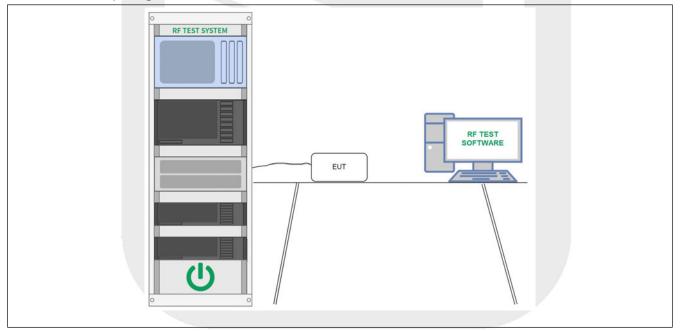


5.4 Maximum Conducted Output Power

5.4.1 Test Requirement

Test Requirement	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method	ANSI C63.10-2020 section 11.9

5.4.2 Test Setup Diagram



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5.4.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed

using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle to the measurement result.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW \ge OBW if possible; otherwise, set RBW to the largest available value.

Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

5.4.4 Test Data PASS.

Please refer to Annex D for details.

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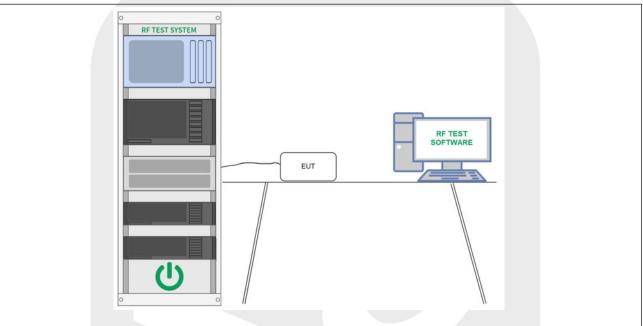


5.5 **Power Spectral Density**

5.5.1 Test Requirement

Test Requirement	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method	ANSI C63.10-2020 section 11.10

5.5.2 Test Setup Diagram



5.5.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency. Set the span to 1.5 times the DTS bandwidth. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. Set the VBW $\geq 3 \text{ RBW}$. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.5.4 Test Data PASS. Please refer to Annex D for details.

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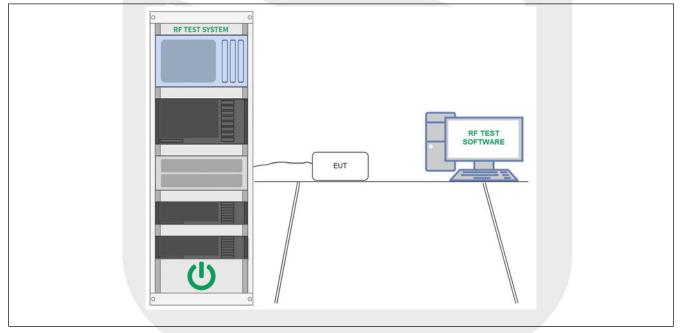


5.6 Emissions in Non-restricted Frequency Bands (Conducted)

5.6.1 Test Requirement

	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio
	frequency power that is produced by the intentional radiator shall be at least 20 dB
	below that in the 100 kHz bandwidth within the band that contains the highest level
	of the desired power, based on either an RF conducted or a radiated
Test Requirement	measurement, provided the transmitter demonstrates compliance with the peak
	conducted power limits. If the transmitter complies with the conducted power limits
	based on the use of RMS averaging over a time interval, as permitted under
	paragraph (b)(3) of this section, the attenuation required under this paragraph shall
	be 30 dB instead of 20 dB. Attenuation below the general limits specified in §
	15.209(a) is not required.
Test Method	ANSI C63.10-2020 section 11.11

5.6.2 Test Setup Diagram



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5.6.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle \ge 98%). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW \geq 3 x RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) \pm 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission \pm 0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak. Trace: Max hold.

5.6.4 Test Data

PASS.

Please refer to Annex D for details.

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5.7 Band Edge Emissions (Restricted frequency bands)

5.7.1 Test Requirement

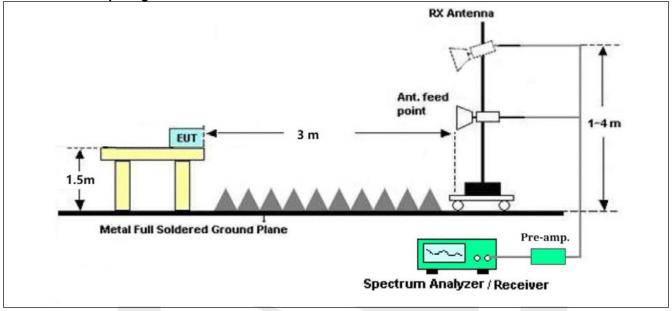
	In addition, radiated em			-			
Test Requirement	15.205(a), must also co 15.209(a)(see § 15.205		emission limits s	specified in §			
	Frequency (MHz)	Field strength (microvolts/mete	r)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)		300			
	0.490-1.705	24000/F(kHz)		30			
	1.705-30.0	30		30			
	30-88	100 **		3			
	88-216	150 **		3			
	216-960	200 **		3			
	Above 960	500		3			
	** Except as provided in	n paragraph (g), fundam	nental emissions	from intentional			
	54-72 MHz, 76-88 MHz these frequency bands §§ 15.231 and 15.241.						
Test Limit	Restricted frequency bandwidth MHz 0.090-0.110 0.495-0.505 2.1735-2.1905 4.125-4.128 4.17725-4.17775 4.20725-4.20775 6.215-6.218 6.26775-6.26825	ands: MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 108-121.94	MHz 399.9-410 608-614 960-1240 1300-1427 1435-1626.5 1645.5-1646.5 1660-1710 1718.8-1722.2	GHz 4.5-5.15 5.35-5.46 7.25-7.75 8.025-8.5 9.0-9.2 9.3-9.5 10.6-12.7 13.25-13.4			
	6.31175-6.31225 8.291-8.294 8.362-8.366	123-138 149.9-150.05 156.52475-156.52525	2200-2300 2310-2390 2483.5-2500	14.47-14.5 15.35-16.2 17.7-21.4			
	8.37625-8.38675 8.41425-8.41475 12.29-12.293 12.51975-12.52025 12.57675-12.57725 13.36-13.41	156.7-156.9 162.0125-167.17 167.72-173.2 240-285 322-335.4	2690-2900 3260-3267 3332-3339 3345.8-3358 3600-4400	22.01-23.12 23.6-24.0 31.2-31.8 36.43-36.5			
Test Method	 Note: 1) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)]. 2) In the emission tables above, the tighter limit applies at the band edges. 3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. 4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). ANSI C63.10-2020 section 6.6.4 						

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5.7.2 Test Setup Diagram



5.7.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

 $\overrightarrow{RBW} = 1 \text{ MHz}$ for $\overrightarrow{f} \ge 1 \text{ GHz}$, 100 kHz for f < 1 GHzVBW $\ge \overrightarrow{RBW}$

Sweep = auto

Detector function = peak

Trace = max hold.

5.7.4 Test Data

PASS.

Please refer to the following pages.

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Band Edge Emissions (Restricted frequency bands):

Test Mode: 2.4G TX Mode					CH Low: 24	02 MHz		
	Frequency	Booding	Fester	Emission	Limit	N 4		
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	level	(dBuV/m)	Margin (dB)	Detector Type	Result
	((((((((((((((((((((((((((((((((((((((((abav)	(ab/m)	(dBuV/m)	(abav/iii)	(GD)	1,900	
Н	2310.00	46.24	-2.81	43.43	74.00	-30.57	PK	PASS
Н	2390.00	47.04	-2.69	44.35	74.00	-29.65	PK	PASS
Н	**2400.00	61.03	-2.68	58.35	74.00	-15.65	PK	PASS
V	2310.00	45.29	-2.81	42.48	74.00	-31.52	PK	PASS
V	2390.00	48.51	-2.69	45.82	74.00	-28.18	PK	PASS
V	**2400.00	64.27	-2.68	61.59	74.00	-12.41	PK	PASS
Н	2310.00	33.48	-2.81	30.67	54.00	-23.33	AV	PASS
Н	2390.00	36.17	-2.69	33.48	54.00	-20.52	AV	PASS
Н	**2400.00	47.91	-2.68	45.23	54.00	-8.77	AV	PASS
V	2310.00	33.18	-2.81	30.37	54.00	-23.63	AV	PASS
V	2390.00	34.39	-2.69	31.70	54.00	-22.30	AV	PASS
V	**2400.00	48.12	-2.68	45.44	54.00	-8.56	AV	PASS

Test Mode	Test Mode: 2.4G TX Mode					CH High: 2479 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result	
Н	**2483.50	47.05	-2.56	44.49	74.00	-29.51	PK	PASS	
Н	2500.00	48.71	-2.54	46.17	74.00	-27.83	PK	PASS	
V	**2483.50	49.37	-2.56	46.81	74.00	-27.19	PK	PASS	
V	2500.00	50.63	-2.54	48.09	74.00	-25.91	PK	PASS	
Н	**2483.50	38.07	-2.56	35.51	54.00	-18.49	AV	PASS	
Н	2500.00	39.72	-2.54	37.18	54.00	-16.82	AV	PASS	
V	**2483.50	39.21	-2.56	36.65	54.00	-17.35	AV	PASS	
V	2500.00	38.66	-2.54	36.12	54.00	-17.88	AV	PASS	

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

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5.8 Radiated Spurious Emission

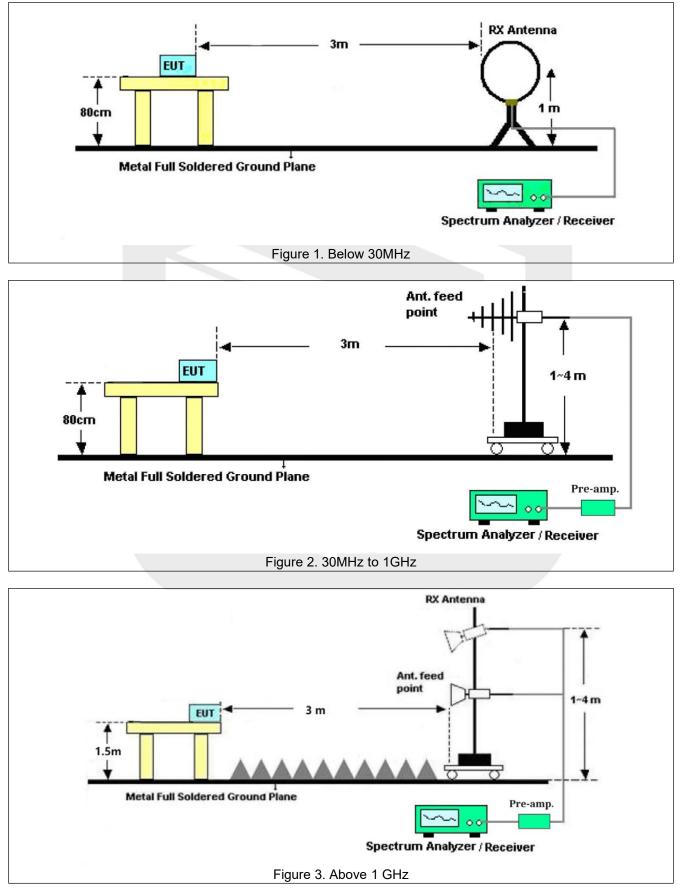
5.8.1 Test Requirement

		ns which fall in the restricted band						
Test Requirement	15.205(a), must also comply with the radiated emission limits specified in §							
	15.209(a)(see § 15.205(c)).							
	Frequency (MHz)	Field strength	Measurement					
		(microvolts/meter)	distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in paragraph (g), fundamental emissions from intentional							
Test Limit	radiators operating under this section shall not be located in the frequency bands							
	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within							
	these frequency bands is permitted under other sections of this part, e.g.,							
	§§ 15.231 and 15.241.							
	1) Field Strength (dB μ V/m) = 20*log[Field Strength (μ V/m)].							
	2) In the emission tables above, the tighter limit applies at the band edges.							
	3) For Above 1000 MHz, the emission limit in this paragraph is based on							
	measurement instrumentation employing an average detector, measurement using							
	instrumentation with a peak detector function, corresponding to 20dB above the							
	maximum permitted average							
		it field strength of harmonics:						
	54dBuV/m@3m (AV) and 74							
Test Method	ANSI C63.10-2020 section 6	5.6.4						

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5.8.2 Test Setup Diagram



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5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as: RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple. RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.8.4 Test Data

PASS.

Please to see the following pages.

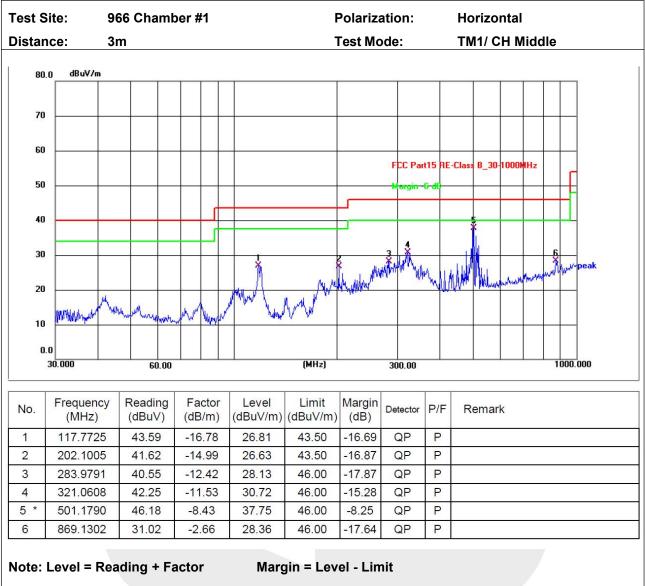
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For test of 30MHz-1GHz, during the test, pre-scan all test modes, and found the 2.4G TX mode with middle channel is worse case, the report only record this mode.

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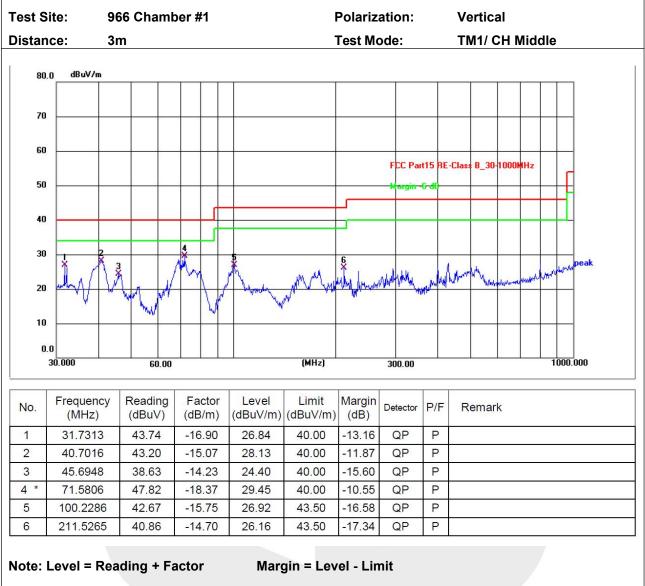
Radiated Emission Test Data (30-1000MHz)



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Radiated Emission Test Data (30-1000MHz)



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Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G TX Mode					CH Low: 2402 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result	
V	4804.52	41.73	4.68	46.41	74.00	-27.60	PK	PASS	
V	7206.54	33.01	9.84	42.85	74.00	-31.15	PK	PASS	
V	9608.17	29.83	13.17	43.00	74.00	-31.00	PK	PASS	
V	12010.09	*	*	*	74.00	*	PK	PASS	
V	14412.52	*	*	*	74.00	*	PK	PASS	
V	16814.69	*	*	*	74.00	*	PK	PASS	
Н	4804.15	41.66	4.68	46.34	74.00	-27.67	PK	PASS	
Н	7206.59	33.85	9.84	43.69	74.00	-30.31	PK	PASS	
Н	9608.44	28.02	13.17	41.19	74.00	-32.81	PK	PASS	
Н	12010.35	*	*	*	74.00	*	PK	PASS	
Н	14412.28	*	*	*	74.00	*	PK	PASS	
Н	16814.94	*	*	*	74.00	*	PK	PASS	
V	4804.31	31.03	4.68	35.71	54.00	-18.30	AV	PASS	
V	7206.03	23.71	9.84	33.55	54.00	-20.46	AV	PASS	
V	9608.54	18.16	13.17	31.33	54.00	-22.67	AV	PASS	
V	12010.05	*	*	*	54.00	*	AV	PASS	
V	14412.65	*	*	*	54.00	*	AV	PASS	
V	16814.97	*	*	*	54.00	*	AV	PASS	
Н	4804.24	31.60	4.68	36.28	54.00	-17.72	AV	PASS	
Н	7206.59	23.44	9.84	33.28	54.00	-20.73	AV	PASS	
Н	9608.44	17.01	13.17	30.18	54.00	-23.83	AV	PASS	
Н	12010.35	*	*	*	54.00	*	AV	PASS	
Н	14412.28	*	*	*	54.00	*	AV	PASS	
Н	16814.94	*	*	*	54.00	*	AV	PASS	

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G TX Mode					CH Middle: 2446 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result	
V	4892.15	41.00	4.92	45.92	74.00	-28.08	PK	PASS	
V	7338.66	34.85	9.83	44.68	74.00	-29.32	PK	PASS	
V	9784.49	29.55	13.22	42.77	74.00	-31.24	PK	PASS	
V	12230.65	*	*	*	74.00	*	PK	PASS	
V	14676.29	*	*	*	74.00	*	PK	PASS	
V	17122.63	*	*	*	74.00	*	PK	PASS	
Н	4892.28	40.03	4.92	44.95	74.00	-29.05	PK	PASS	
Н	7338.44	35.77	9.83	45.60	74.00	-28.40	PK	PASS	
Н	9784.56	29.77	13.22	42.99	74.00	-31.01	PK	PASS	
Н	12230.42	*	*	*	74.00	*	PK	PASS	
Н	14676.52	*	*	*	74.00	*	PK	PASS	
Н	17122.52	*	*	*	74.00	*	PK	PASS	
V	4882.77	30.13	4.92	35.05	54.00	-18.95	AV	PASS	
V	7323.41	24.14	9.83	33.97	54.00	-20.04	AV	PASS	
V	9764.69	19.49	13.22	32.71	54.00	-21.30	AV	PASS	
V	12205.29	*	*	*	54.00	*	AV	PASS	
V	14646.32	*	*	*	54.00	*	AV	PASS	
V	17087.62	*	*	*	54.00	*	AV	PASS	
Н	4892.28	31.97	4.92	36.89	54.00	-17.12	AV	PASS	
Н	7338.44	24.25	9.83	34.08	54.00	-19.92	AV	PASS	
Н	9784.56	19.44	13.22	32.66	54.00	-21.35	AV	PASS	
Н	12230.42	*	*	*	54.00	*	AV	PASS	
Н	14676.52	*	*	*	54.00	*	AV	PASS	
Н	17122.52	*	*	*	54.00	*	AV	PASS	

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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Radiated Spurious Emission (1GHz-25GHz)

Test Mode: 2.4G TX Mode					CH High: 2479 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result	
V	4958.55	40.33	5.17	45.50	74.00	-28.50	PK	PASS	
V	7437.68	33.44	9.83	43.27	74.00	-30.73	PK	PASS	
V	9916.86	29.98	13.27	43.25	74.00	-30.76	PK	PASS	
V	12395.18	*	*	*	74.00	*	PK	PASS	
V	14874.43	*	*	*	74.00	*	PK	PASS	
V	17353.74	*	*	*	74.00	*	PK	PASS	
Н	4960.70	40.51	5.17	45.68	74.00	-28.32	PK	PASS	
Н	7440.90	34.42	9.83	44.25	74.00	-29.76	PK	PASS	
Н	9920.43	30.38	13.27	43.65	74.00	-30.35	PK	PASS	
Н	12400.50	*	*	*	74.00	*	PK	PASS	
Н	14880.37	*	*	*	74.00	*	PK	PASS	
Н	17360.47	*	*	*	74.00	*	PK	PASS	
V	4958.07	32.77	5.17	37.94	54.00	-16.06	AV	PASS	
V	7437.49	23.88	9.83	33.71	54.00	-20.29	AV	PASS	
V	9916.47	17.13	13.27	30.40	54.00	-23.60	AV	PASS	
V	12395.85	*	*	*	54.00	*	AV	PASS	
V	14874.89	*	*	*	54.00	*	AV	PASS	
V	17353.53	*	*	*	54.00	*	AV	PASS	
Н	4960.70	31.16	5.17	36.33	54.00	-17.68	AV	PASS	
Н	7440.90	24.62	9.83	34.45	54.00	-19.56	AV	PASS	
Н	9920.43	18.33	13.27	31.60	54.00	-22.40	AV	PASS	
Н	12400.50	*	*	*	54.00	*	AV	PASS	
Н	14880.37	*	*	*	54.00	*	AV	PASS	
Н	17360.47	*	*	*	54.00	*	AV	PASS	

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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ANNEX A TEST SETUP PHOTOS

Please refer to the document "8235EU012609W-AA.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8235EU012609W-AB.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8235EU012609W-AC.PDF"

ANNEX D TEST DATA

Please refer to the document "8235EU012609W-AD.PDF"

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STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.

2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.

3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.

4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.

5. The test data and results are only valid for the tested samples provided by the customer.

6. This report shall not be partially reproduced without the written permission of the laboratory.

7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---

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