



FCC RF Test Report

Product Name: Smart Phone

Model Number: EVE-LX3

Report No.: SYBH(Z-RF)20221017002001-2004

FCC ID: 2ATEYEVE

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MODIFICATION RECORD

No.	Report No	Modification Description
1	SYBH(Z-RF)20221017002001-2004	First release.

DECLARATION

Type	Description
Multiple Models Applications	<input checked="" type="checkbox"/> The present report applies to single model. <input type="checkbox"/> The present report applies to several models. The practical measurements are performed with the model The present report only presents the worst test case of all modes, see relevant test results for detailed.

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2 General Information

2.1 Test standard/s

Applied Rules :	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C
Test Method :	FCC KDB 558074 D01 DTS Meas Guidance v05r02 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices.

2.2 Test Environment

Temperature :	TN	15 to 30	°C during room temperature tests
Ambient Relative Humidity:	25 to 75 %		
Atmospheric Pressure:	Not applicable		
Power supply :	VN	3.87	V DC by Battery

NOTE 1: 1) VN= nominal voltage, VL= low extreme test voltage, VH= High extreme test voltage;

TN= normal temperature, TL= low extreme test temperature, TH= High extreme test temperature.

NOTE 2: The values used in the test report may be stringent than the declared.

2.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Address of Test Location 1 :	No.2 New City Avenue, Songshan Lake Science & Technology Industry Park Dongguan, Guangdong, 523808, People's Republic of China
Temperature of Test Location 1 :	25°C
Relative humidity of Test Location 1 :	55 %

2.4 Applicant and Manufacturer

Company Name :	Huawei Device Co., Ltd.
Address :	No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong 523808, People's Republic of China

2.5 Application details

2.5.1 Current Test Project/Report

Date of Receipt Sample:	2022-09-12
Start of test:	2022-09-13
End of test:	2022-10-19

3 Test Summary

Test Item	FCC Rule No.	Requirements	Test Result	Verdict	Testing location
DTS (6 dB) Bandwidth	15.247(a)(2)	≥ 500 kHz.	Appendix A	Pass	Test Location 1
Occupied Bandwidth	---	No limit	Appendix B	Pass	Test Location 1
Duty Cycle	KDB 558074 D01(6.0)	No limit	Appendix C	Pass	Test Location 1
Maximum Average Output Power	15.247(b)(3)	FCC: For directional gain: Conducted < 30 dBm – (G[dBi] – 6 [dB]); Otherwise: Conducted < 30 dBm,	Appendix D	Pass	Test Location 1
Maximum Power Spectral Density Level	15.247(e)	Conducted < 8 dBm/3 kHz.	Appendix E	Pass	Test Location 1
Band Edges Compliance	15.247(d)	< -30 dB/100 kHz if total average power \leq power limit.	Appendix F	Pass	Test Location 1
Unwanted Emissions into Non-Restricted Frequency Bands			Appendix G	Pass	Test Location 1
Unwanted Emissions into Restricted Frequency Bands (Radiated)	15.247(d) 15.209 (NOTE 1)	FCC Part 15.209 field strength limit;	Appendix H	Pass	Test Location 1
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	Appendix I	Pass	Test Location 1
NOTE: The transmitter has an integral PCB loop antenna that is enclosed within the housing of the EUT and meets the requirements of FCC 15.203					

4 Description of the Equipment under Test (EUT)

4.1 General Description

EVE-LX3 is subscriber equipment in the GSM/WCDMA/LTE system. The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/WCDMA and GSM protocol processing, voice, video MMS service, GPS, AGPS, Wi-Fi etc. Externally it provides earphone port (to provide voice service), and dual SIM/single SIM card interface. EVE-LX3 is dual/single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

Note 1: Only 2.4G WIFI test data included in this report.



4.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

4.2.1 Board

Board	Description	
Product Name :	Smart Phone	
Model name :	EVE-LX3	
SN :	Conducted	9STBB22824000052
	Radiated	9STBB22824000091
Software Version :	6.0.0.115(C603E2R2P1)	
Hardware Version :	HL1EVEM	

4.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-100225E00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz, 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A
Adapter	HW-100225B00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz, 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A
Adapter	HW-100225U00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz, 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A
Adapter	HW-100225A00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz, 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A
Battery	HB496590EFW-F	Huawei Device Co., Ltd.	Rated capacity: 4900mAh Nominal Voltage:  +3.87V Charging Voltage:  +4.45V

4.3 Technical Description

NOTE: For the detailed technical descriptions, see the applicant/manufacturer's specifications or user manual.

Characteristic	Description		
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b	<input checked="" type="checkbox"/> 20 MHz,	
	<input checked="" type="checkbox"/> 802.11g	<input checked="" type="checkbox"/> 20 MHz	
	<input checked="" type="checkbox"/> 802.11n	<input checked="" type="checkbox"/> 20 MHz, <input checked="" type="checkbox"/> 40 MHz	
	<input type="checkbox"/> 802.11ax	<input type="checkbox"/> HE SU	<input type="checkbox"/> 20 MHz, <input type="checkbox"/> 40 MHz
		<input type="checkbox"/> HE ERSU	<input type="checkbox"/> 20 MHz: 106-Tone/242-Tone
		<input type="checkbox"/> HE TB	<input type="checkbox"/> 20 MHz: 26-Tone/52-Tone/106-Tone/242-Tone
<input type="checkbox"/> 40 MHz:26-Tone/52-Tone/106-Tone/242-Tone/484-Tone			
<input type="checkbox"/> HE MU	<input type="checkbox"/> 20 MHz: 26-Tone/52-Tone/106-Tone/242-Tone <input type="checkbox"/> 40 MHz:26-Tone/52-Tone/106-Tone/242-Tone/484-Tone		
TX/RX Operating Range	2412-2462 MHz	2407 MHz + N * 5 MHz, N = 1...11 (for 802.11b/g/n HT20). 2407 MHz + N * 5 MHz, N = 3...9 (for 802.11n HT40).	
Baseband Modulation	802.11b : DBPSK/DQPSK/CCK(DSSS)		
	802.11g : BPSK/QPSK/16QAM/64QAM(OFDM)		
	802.11n : BPSK/QPSK/16QAM/64QAM(OFDM)		
Emission Designator	8M06G7D (for 802.11b mode), 16M4G7D (for 802.11g mod), 17M6G7D (for 802.11n20 mode), 35M9G7D (for 802.11n40 mode),		
TX Power Control	<input checked="" type="checkbox"/> Supported, <input type="checkbox"/> Not Supported		
Standby Mode	<input type="checkbox"/> Supported, <input checked="" type="checkbox"/> Not Supported		

Characteristic	Description	
Equipment Type	<input checked="" type="checkbox"/> Stand-alone equipment, <input type="checkbox"/> Plug-in radio device, <input type="checkbox"/> Combined equipment	
Antenna	Description	Isotropic Antenna
	Type	<input checked="" type="checkbox"/> Integral (permanent fixed antenna, which may be built-in, designed as an indispensable part of EUT) <input type="checkbox"/> Dedicated (removable antenna supplied with EUT, designed as an indispensable part of EUT)
	Ports	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3
	Smart System	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 CDD, <input type="checkbox"/> 3*3 CDD, <input type="checkbox"/> 4*4 CDD
		<input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 CDD, <input type="checkbox"/> 3*3 CDD, <input type="checkbox"/> 4*4 CDD
		<input checked="" type="checkbox"/> 802.11n <input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 MIMO, <input type="checkbox"/> 3*3 MIMO, <input type="checkbox"/> 4*4 MIMO
		<input type="checkbox"/> 802.11ax <input type="checkbox"/> SISO, <input type="checkbox"/> 2*2 MIMO, <input type="checkbox"/> 3*3 MIMO, <input type="checkbox"/> 4*4 MIMO
Gain	-1.5 dBi	
Remark	When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.	
Power Supply	Type	<input type="checkbox"/> External DC mains, <input checked="" type="checkbox"/> Battery, <input type="checkbox"/> AC/DC Adapter, <input type="checkbox"/> Powered over Ethernet (PoE). <input type="checkbox"/> USB <input type="checkbox"/> Other_____

5 General Test Conditions / Configurations

5.1 Test Modes

5.1.1 Worst case Configurations

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests

Test Mode	Power Level Setting defined by Manufacturer	Test Modes Description
	ANT1	
11b20SISO	17.00	IEEE 802.11b with data rate of 1 Mbps using SISO mode.
11g20SISO	CH1/11: 10.50 Others: 17.00	IEEE 802.11g with data rate of 6 Mbps
11n20SISO	CH1/11: 11.50 Others: 16.50	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz, using SISO mode
11n40SISO	CH3/9: 8.00 CH4: 9.50 CH5/8: 12.5 CH6/7: 13.00	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz, using SISO mode

5.1.2 Frequencies under Test

Test Bandwidth	RF Channel		
	Lowest (L)	Middle (M)	Highest (H)
20MHz	Ch No. 1 / 2412 MHz	Ch No. 6 / 2437 MHz	Ch No. 11 / 2462 MHz
40MHz	Ch No. 3 / 2422 MHz	Ch No. 6 / 2437 MHz	Ch No. 9 / 2452 MHz

Note: Due to the channel power levels are different, we have increased the proximity channel test in Appendix.

5.1.3 The typical and worst case operational mode for each of the following tests

Test Item	Mode	Antenna	Bandwidth	Tone for 11ax	RU for 11ax
DTS (6 dB) Bandwidth	All	SISO	All	N/A	N/A
Occupied Bandwidth	All	SISO	All	N/A	N/A
Duty Cycle	All	SISO	All	N/A	N/A
Maximum Average Output Power	All	SISO	All	N/A	N/A
Maximum Power Spectral Density Level	All	SISO	20MHz	N/A	N/A
Band Edges Compliance	All	SISO	All	N/A	N/A
Unwanted Emissions into Non-Restricted Frequency Bands	All	SISO	All	N/A	N/A
Unwanted Emissions into Restricted Frequency Bands (Radiated)	All	SISO	All	N/A	N/A
AC Power Line Conducted Emissions	11n	SISO	20MHz	N/A	N/A

5.2 Description of tests

5.2.1 Bandwidth measurement

- (a) Connect EUT test port to spectrum analyzer.
- (b) Set the EUT to transmit maximum output power at 2.4GHz, then set the measured frequency number and test the bandwidth with spectrum analyzer.

5.2.2 Average output power

- (a) Connect EUT test port to spectrum analyzer.
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted output power separately.

5.2.3 Band edge spurious emission

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, low frequency and measure the conducted band edge spurious separately.

5.2.4 Conducted RF spurious

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted spurious separately.

5.2.5 Power spectral density

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted power spectral density.

5.2.6 Radiated spurious emission & spurious in restricted band

For frequency below 1GHz, the test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). The EUT was set-up on insulator 80cm above the Ground Plane. For frequency above 1GHz, the test site full-anechoic chamber has met the requirement of ANSI C63.10 (2013). The EUT was set-up on insulator 150cm above the Ground Plane.

The set-up and test methods were according to ANSI C63.10:2013. The Radiated Disturbance measurements were made using a Rohde and Schwarz Test Receiver and control software.

A preliminary scan and a final scan of the emissions were made by using test script of software; the emissions were measured using a Quasi-Peak Detector below 1GHz, Peak Detector and AV Detector above 1GHz. The maximal emission value was acquired by

adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, and the azimuth range of turntable was 0° to 360°. The receive antenna has two polarizations V and H.

A portable or small unlicensed wireless device shall be placed on a non-metallic test fixture or other nonmetallic support during testing. The supporting fixture shall permit orientation of the EUT in each of three orthogonal (x, y, z) axis positions such that emissions from the EUT are maximized.

The EUT communicates with the BTS simulator through Air interface. The EUT operated on the typical channel.

Measurement bandwidth: 30 MHz – 1000 MHz: 120 kHz

Measurement bandwidth: 1000 MHz – 10th Carrier Frequency: 1 MHz

5.2.7 Conducted Emission at Power Port

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

The EUT communicates with the BTS simulator through Air interface, the BTS simulator controls the Wireless Modem to transmitter the maximum power which defined in specification of product. The Wireless Modem operated on the typical channel.

Measurement bandwidth (RBW) for 150kHz to 30 MHz: 9 kHz;

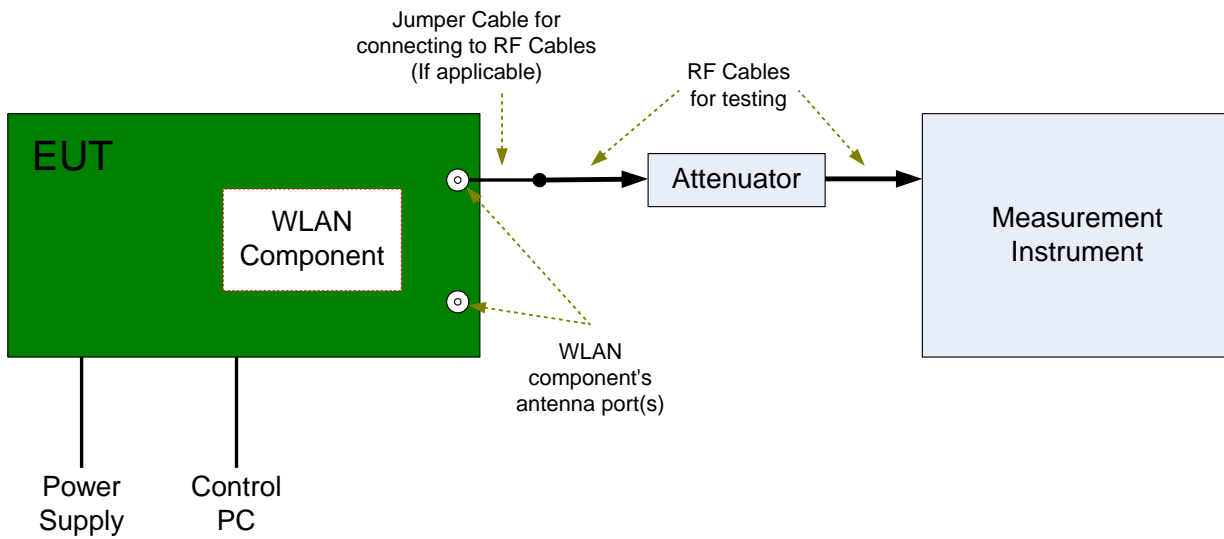
5.3 Test Setups

5.3.1 General Test Setup Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"> - All TX tests are performed at all TX antenna ports of the EUT, and - All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.
Sensors and Antenna	Sensors and Antenna optimization function should be disabled during testing by software method to get the stable maximum power and avoid the influence of uncertain conditions

5.3.2 Test Setup 1

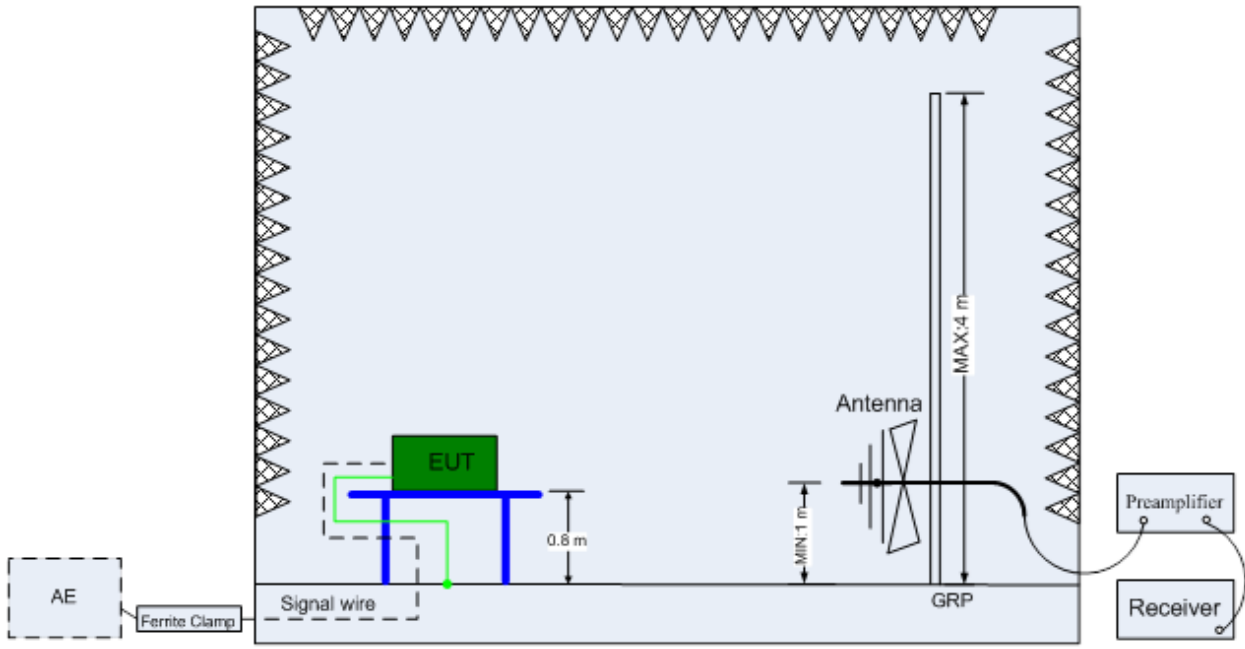
The WLAN component's antenna port(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



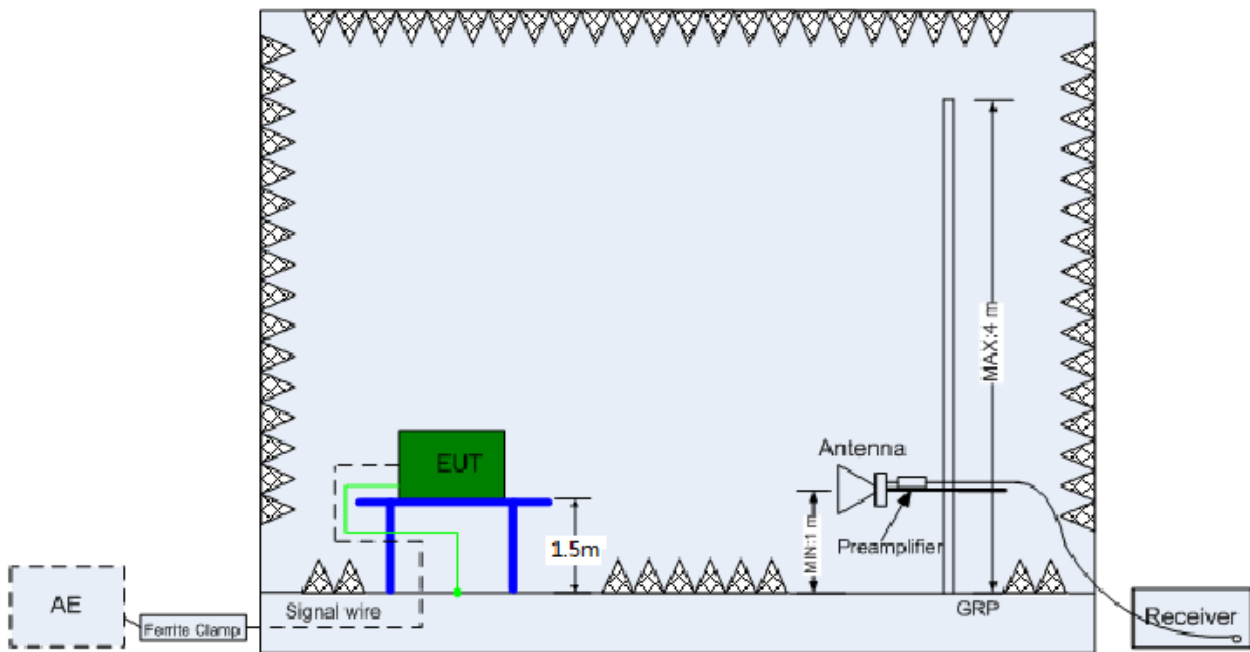
5.3.3 Test Setup 2

The semi-anechoic chamber and full-anechoic chamber has met the requirement of ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



(Below 1 GHz)

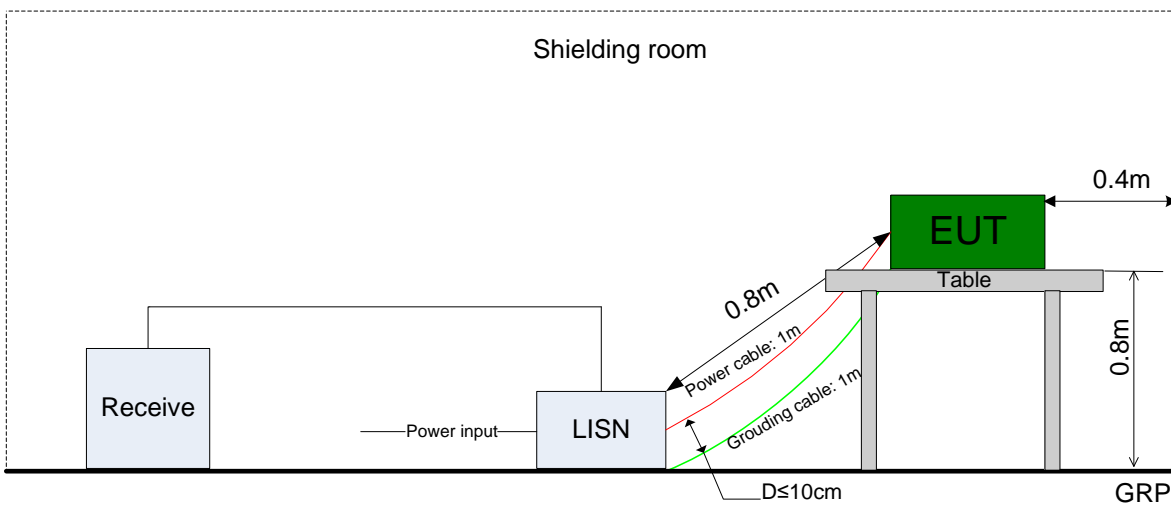


(Above 1 GHz)

5.3.4 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.



5.4 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
DTS (6 dB) Bandwidth	Measurement Method	FCC KDB 558074 D01 §8.2 Option 1.
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Occupied Bandwidth	Measurement Method	ANSI C63.10 Section 6.9.3
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Maximum Conducted Average Output Power	Measurement Method	FCC KDB 558074 D01 §8.3.2.3
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Maximum Power Spectral Density Level	Measurement Method	FCC KDB 558074 D01 §8.4
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Band Edges Compliance	Measurement Method	FCC KDB 558074 D01 §8.7
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Unwanted Emissions into Non-Restricted Frequency Bands	Measurement Method	FCC KDB 558074 D01 §8.5
	Test Environment	TN/VN
	Test Setup	Test Setup 1
	EUT Configuration	See §5.1
Unwanted Emissions into Restricted Frequency Bands (Radiated)	Measurement Method	ANSI C63.10; FCC KDB 558074 D01 §8.6, Radiated
	Test Environment	TN/VN
	Test Setup	Test Setup 2
	EUT Placement	<input checked="" type="checkbox"/> Flatwise, <input checked="" type="checkbox"/> Upright, <input checked="" type="checkbox"/> Hung
	EUT Configuration	See §5.1
AC Power Line Conducted Emissions	Measurement Method	AC mains conducted.
	Test Environment	TN/VN
	Test Setup	Test Setup 3
	EUT Configuration	See §5.1

6 Main Test Instruments

6.1 Current Test Project/Report

Main Test Equipments(BT/WIFI test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Power Sensor	R&S	NRX	102976/102832	2022/07/04	2023/07/03
Signal Analyzer	R&S	FSW26	101585	2022/07/04	2023/07/03

Main Test Equipments(RE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Test receiver	R&S	ESW44	101878	2021/11/13	2022/11/12
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2021/07/11	2023/07/10
Trilog Broadband Antenna (30M~3GHz)	SCHWARZB ECK	VULB 9163	01327	2021/05/28	2023/05/27
Trilog Broadband Antenna (1GHz~18GHz)	SCHWARZB ECK	HF907	100305	2021/05/08	2023/05/07
Trilog Broadband Antenna (18GHz~40GHz)	SCHWARZB ECK	BBHA 9170	BBHA9170647	2021/09/14	2023/09/13
Software Information					
Test Item	Software Name		Manufacturer	Version	
RE	EMC32		R&S	V10.60.20	

Main Test Equipments(CE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Test receiver	R&S	ESU26	100150	2021/11/13	2022/11/12
Line Impedance Stabilization Network	R&S	ENV216	101176	2022/07/04	2023/07/03
Software Information					
Test Item	Software Name		Manufacturer	Version	
CE	EMC32		R&S	V9.25.0	

7 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmit Output Power Data	Power [dBm]	U = 0.39 dB
RF Power Density, Conducted	Power [dBm]	U = 0.66 dB
Bandwidth	Magnitude [kHz]	20MHz: U=41.78kHz 40MHz: U=82.12kHz
Band Edge Compliance	Disturbance Power [dBm]	U = 0.9 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	20MHz~3.6GHz: U=0.88dB 3.6GHz~8.4GHz: U=1.08dB 8.4GHz~13.6GHz: U=1.24dB 13.6GHz~22GHz: U=1.34dB 22GHz~26.5GHz: U=1.36dB
Field Strength of Spurious Radiation	ERP/EIRP [dBm]	For 3 m Chamber: U = 3.868 dB (9 kHz to 150 kHz) U = 3.782 dB (150 kHz to 30 MHz) U = 5.24 dB (30 MHz-1 GHz) U = 4.84 dB (1 GHz-18 GHz) U = 4.62 dB (18 GHz-26.5 GHz)
AC Power Line Conducted Emissions	Disturbance Voltage[dBμV]	U=2.3 dB
Duty Cycle	Duty Cycle [%]	U=±2.06 %

8 Appendixes

Appendix No.	Description
SYBH(Z-RF)20221017002001-2004-A	Appendix for 2.4G WLAN(Conducted)
SYBH(Z-RF)20221017002001-2004-B	Appendix for 2.4G WLAN(Radiated)

Note: We tested all modes & antennas, and the data presented in the appendix is the worst case.

END