



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: IC Meizhou Guo Wei Electronics Co., Ltd AD1 Section, Economic Development Area, Dongsheng Industrial District, Meizhou, Guangdong, China. SZNS211221-66225E-RF-00A 2ARRB-PIP1200PU 20353-PIP1200PU

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247, ISSUE 2, FEBRUARY 2017

Sample Description

Product Type:	Video baby monitor
Model No.:	PIP1200 PU
Multiple Model(s) No.:	N/A
Trade Mark:	Motorola
Date Received:	2021/12/21
Date of Test:	2022/01/04~2022/01/12
Report Date:	2022/01/24

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ting Lü EMC Engineer

Approved By:

R6bort li

Robert Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

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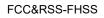


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GENERAL INFORMATION

HVIN	PIP1200PU
Frequency Range	2405-2475MHz
Maximum conducted Peak output power	12.82 dBm
Modulation Technique	GFSK
Antenna Specification*	0 dBi(It is provided by the applicant)
Voltage Range	DC 3.8V from battery or DC 5.0V from adapter
Sample number	SZNS211221-66225E-RF-S4 (for radiated test) SZNS211221-66225E-RF-S3 (for RF conducted)
Sample/EUT Status	Good condition
Adapter 1 information	Model: AT-538A-050100A Input: AC 100-240V~50/60Hz, 0.2A, Max. Output: DC 5.0V, 1.0A, 5.0W
Adapter 2 information	Model: BQ05A-0501000-U Input: AC 100-240V~50/60Hz, Max. 300mA Output: DC 5.0V, 1000mA
Adapter 3 information	Model: EP04-050100WXLZ Input: AC 100-240V~50/60Hz, 0.2A, Max. Output: DC 5.0V, 1.0A, 5.0W

Product Description for Equipment under Test (EUT)

Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules and RSS-GEN issue 5, February 2021 amendment 2 and RSS-247, Issue 2, February 2017 of the Innovation, Science and Economic Development Canada rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Cha	nnel Bandwidth	5%
RF output por	wer, conducted	0.73dB
Unwanted Emi	ssion, conducted	1.6dB
AC Power Lines Conducted Emissions		2.72dB
- · ·	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Tudiated	18GHz - 26.5GHz	5.06dB
Temperature		1 °C
Humidity		6%
Supply	voltages	0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

The channels are provided:

Channel	TX Frequency (MHz)	Channel	TX Frequency (MHz)
1	2405	17	2439
2	2407	18	2441
3	2409	19	2444
4	2411	20	2446
5	2413	21	2450
6	2415	22	2452
7	2418	23	2454
8	2420	24	2456
9	2422	25	2458.5
10	2424	26	2460.5
11	2426	27	2462.5
12	2428	28	2467
13	2430	29	2469
14	2433	30	2471
15	2435	31	2473
16	2437	32	2475

EUT was tested with Channel 1, 17 and 32.

EUT Exercise Software

EUT was configured for testing mode and power level is default*. The power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

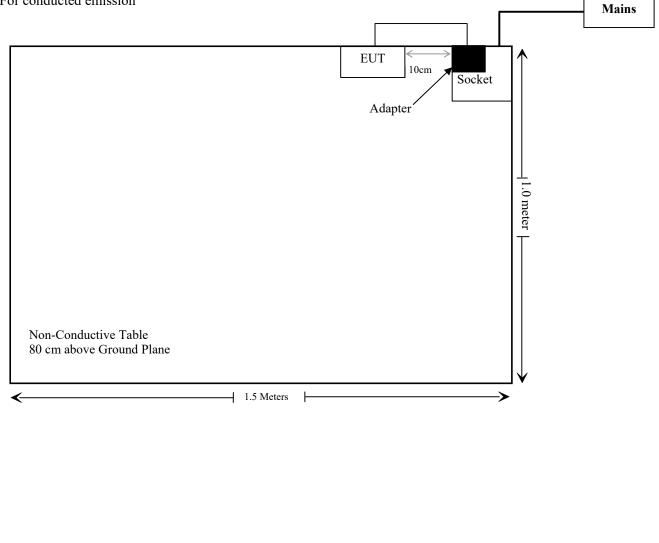
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

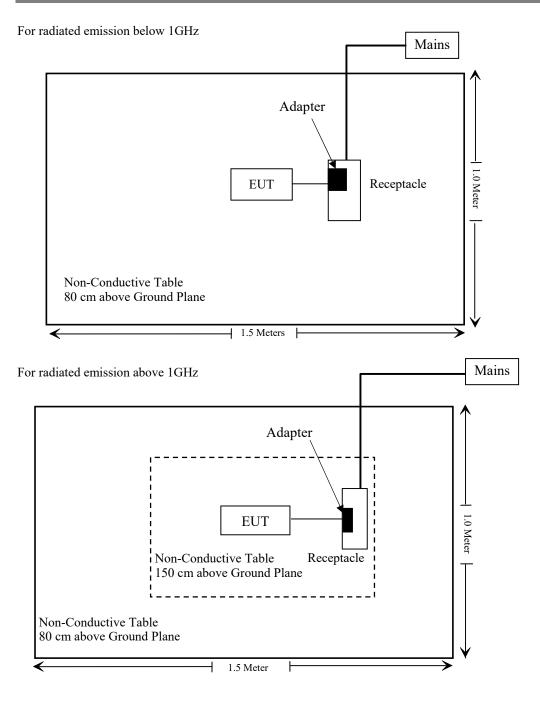
Cable Description	Length (m)	From Port	То
Un-shielding Un-Detachable DC Cable	3.0	Adapter	EUT

Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

FCC Rules	ISEDC Rules	Description of Test	Result
FCC§15.247 (i), §1.1307 (b) (1) & §2.1093	RSS-102	RF Exposure	Compliant
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
§15.207(a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	RSS-247 § 5.5	Radiated Emissions	Compliant
§15.247(a)(1)	RSS- Gen§6.7, RSS-247 § 5.1 (a)	99% Occupied Bandwidth & 20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	RSS-247 § 5.1 (b)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	RSS-247 § 5.1 (d)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	RSS-247 § 5.1 (d)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	RSS-247 § 5.1(b) &§ 5.4(b)	Peak Output Power Measurement	Compliant
§15.247(d)	RSS-247 § 5.5	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Condu	icted Emissions	Fest		
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/02/03	2022/02/02
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Te	st Software: e3 19821b (V	79)			
	Radi	ated Emission Te	est		
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test	Software: e3 19821b (V9)			
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	RF	Conducted Test			
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2021/07/06	2022/07/05
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Measurement Result

Please refer to SAR test report: SZNS211221-66225E-SA.

RSS-102 – RF EXPOSURE

Applicable Standard

According to RSS-102, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Measurement Result: Compliant.

Please refer to SAR test report: SZNS211221-66225E-SA.

FCC §15.203 & RSS-GEN §6.8-ANTENNA REQUIREMENT

Applicable Standard

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.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one external antenna arrangements which were permanently attached and the gain is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Туре	Antenna Gain	Impedance
Monopole	0 dBi	50 Ω

Result: Compliant.

FCC §15.207 (a) & RSS-GEN §8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a) & RSS-Gen §8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 - AC Power Lines Conducted Emission Limits				
Frequency range	Conducted limit (dBµV)			
(MHz)	Quasi-Peak	Average		
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹		
0.5 - 5	56	46		
5 - 30	60	50		

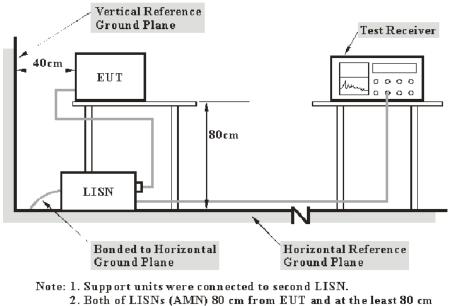
Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

EUT Setup



from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207 and RSS-Gen limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss. The basic equation is as follows:

Corrected Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over limit = Level – Limit Level= read level + corrected factor

Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

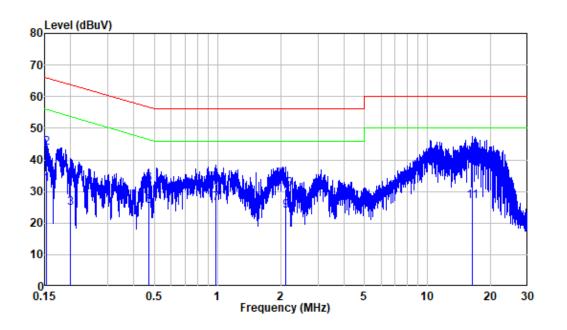
The testing was performed by Bin Duan on 2022-01-08.

EUT operation mode: Transmitting(worst case is low channel)

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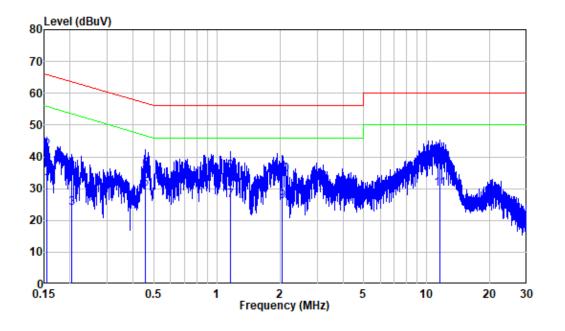
For Adapter 1(Model: AT-538A-050100A)

AC 120V/60 Hz, Line



	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.153	9.89	22.46	32.35	55.85	-23.50	Average
2	0.153	9.89	33.88	43.77	65.85	-22.08	QP
3	0.200	9.80	15.01	24.81	53.61	-28.80	Average
4	0.200	9.80	25.06	34.86	63.61	-28.75	QP
5	0.471	9.80	15.65	25.45	46.49	-21.04	Average
6	0.471	9.80	22.49	32.29	56.49	-24.20	QP
7	0.983	9.81	16.54	26.35	46.00	-19.65	Average
8	0.983	9.81	22.56	32.37	56.00	-23.63	QP
9	2.102	9.92	13.84	23.76	46.00	-22.24	Average
10	2.102	9.92	20.85	30.77	56.00	-25.23	QP
11	16.344	10.09	16.66	26.75	50.00	-23.25	Average
12	16.344	10.09	29.49	39.58	60.00	-20.42	QP

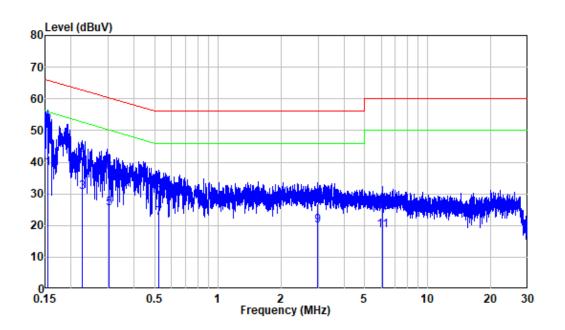
AC 120V/60 Hz, Neutral



			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.91	21.34	31.25	55.72	-24.47	Average
2	0.155	9.91	32.11	42.02	65.72	-23.70	QP
3	0.204	10.00	13.71	23.71	53.46	-29.75	Average
4	0.204	10.00	25.10	35.10	63.46	-28.36	QP
5	0.458	9.91	19.83	29.74	46.73	-16.99	Average
6	0.458	9.91	26.07	35.98	56.73	-20.75	QP
7	1.164	9.91	16.26	26.17	46.00	-19.83	Average
8	1.164	9.91	25.26	35.17	56.00	-20.83	QP
9	2.045	9.92	16.00	25.92	46.00	-20.08	Average
10	2.045	9.92	24.64	34.56	56.00	-21.44	QP
11	11.536	10.08	19.84	29.92	50.00	-20.08	Average
12	11.536	10.08	28.67	38.75	60.00	-21.25	QP -

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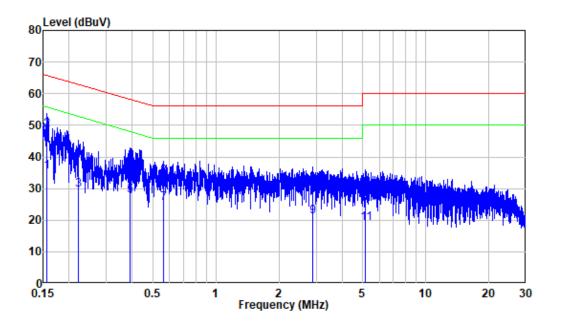
For Adapter 2(Model: BQ05A-0501000-U) AC 120V/60 Hz, Line



	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.89	28.06	37.95	55.74	-17.79	Average
2	0.155	9.89	41.72	51.61	65.74	-14.13	QP
3	0.226	9.80	20.69	30.49	52.60	-22.11	Average
4	0.226	9.80	31.81	41.61	62.60	-20.99	QP
5	0.303	9.80	15.55	25.35	50.17	-24.82	Average
6	0.303	9.80	26.84	36.64	60.17	-23.53	QP
7	0.523	9.81	12.39	22.20	46.00	-23.80	Average
8	0.523	9.81	21.14	30.95	56.00	-25.05	QP
9	2.980	9.93	10.00	19.93	46.00	-26.07	Average
10	2.980	9.93	17.08	27.01	56.00	-28.99	QP
11	6.072	10.03	8.42	18.45	50.00	-31.55	Average
12	6.072	10.03	14.23	24.26	60.00	-35.74	QP

Report No.: SZNS211221-66225E-RF-00A

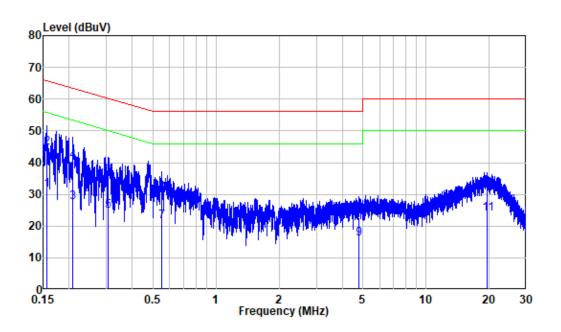
AC 120V/60 Hz, Neutral



			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	9.92	25.55	35.47	55.61	-20.14	Average
2	0.157	9.92	38.69	48.61	65.61	-17.00	QP
3	0.221	9.99	19.60	29.59	52.77	-23.18	Average
4	0.221	9.99	29.97	39.96	62.77	-22.81	QP
5	0.390	9.93	17.74	27.67	48.07	-20.40	Average
6	0.390	9.93	27.78	37.71	58.07	-20.36	QP
7	0.560	9.91	15.41	25.32	46.00	-20.68	Average
8	0.560	9.91	23.87	33.78	56.00	-22.22	QP
9	2.894	9.98	11.11	21.09	46.00	-24.91	Average
10	2.894	9.98	19.79	29.77	56.00	-26.23	QP
11	5.173	10.05	8.90	18.95	50.00	-31.05	Average
12	5.173	10.05	17.49	27.54	60.00	-32.46	QP

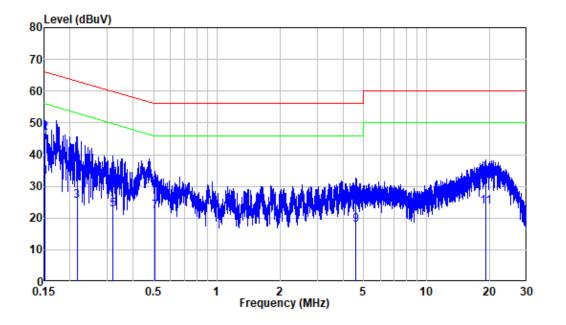
Report No.: SZNS211221-66225E-RF-00A

For Adapter 3(Model: EP04-050100WXLZ) AC 120V/60 Hz, Line



	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.89	21.49	31.38	55.65	-24.27	Average
2	0.156	9.89	34.66	44.55	65.65	-21.10	QP
3	0.207	9.80	17.54	27.34	53.32	-25.98	Average
4	0.207	9.80	30.67	40.47	63.32	-22.85	QP
5	0.307	9.80	14.86	24.66	50.05	-25.39	Average
6	0.307	9.80	25.83	35.63	60.05	-24.42	QP
7	0.551	9.81	11.50	21.31	46.00	-24.69	Average
8	0.551	9.81	20.76	30.57	56.00	-25.43	QP
9	4.803	9.98	6.06	16.04	46.00	-29.96	Average
10	4.803	9.98	12.57	22.55	56.00	-33.45	QP
11	19.545	10.19	13.73	23.92	50.00	-26.08	Average
12	19.545	10.19	20.63	30.82	60.00	-29.18	QP

AC 120V/60 Hz, Neutral



			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	9.91	23.15	33.06	55.88	-22.82	Average
2	0.152	9.91	36.82	46.73	65.88	-19.15	QP
3	0.215	9.99	15.26	25.25	52.99	-27.74	Average
4	0.215	9.99	28.33	38.32	62.99	-24.67	QP -
5	0.321	9.95	12.73	22.68	49.69	-27.01	Average
6	0.321	9.95	22.56	32.51	59.69	-27.18	QP
7	0.507	9.90	12.05	21.95	46.00	-24.05	Average
8	0.507	9.90	19.73	29.63	56.00	-26.37	QP
9	4.610	10.05	7.77	17.82	46.00	-28.18	Average
10	4.610	10.05	15.26	25.31	56.00	-30.69	QP
11	19.135	10.17	13.42	23.59	50.00	-26.41	Average
12	19.135	10.17	21.67	31.84	60.00	-28.16	QP

FCC&RSS-FHSS

FCC §15.205, §15.209 & §15.247(d) & RSS-247§ 5.5 – RADIATED EMISSIONS

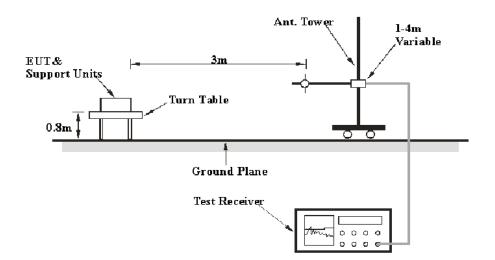
Applicable Standard

FCC §15.205; §15.209; §15.247(d) and RSS-247 §5.5

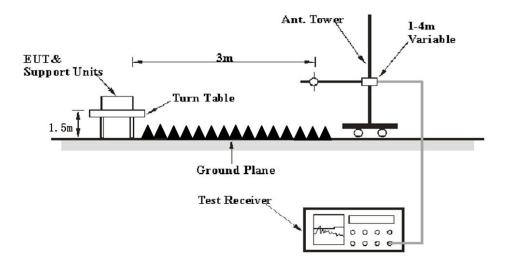
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits and RSS-247/RSS-Gen limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	РК
Above I GHZ	1 MHz	10 Hz	/	Average

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for Over Limit/margin calculation is as follows:

Over Limit = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	21~26.8 °C
Relative Humidity:	51~62 %
ATM Pressure:	101.0~101.2 kPa

The testing was performed by Paul Liu on 2022-01-09 for below 1GHz, by Paul Liu on 2022-01-09 and 2022-01-12 for above 1GHz.

EUT operation mode: Transmitting (worst case is low channel)

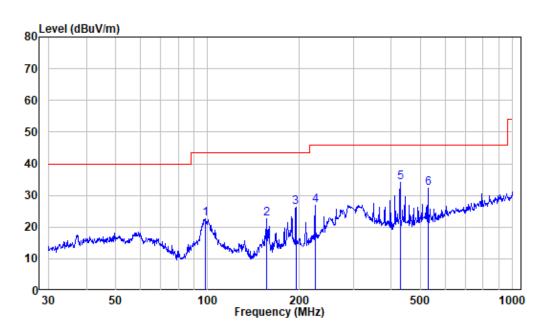
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

30MHz-1GHz: (worst case for Low channel)

Note: When the test result of peak was less than the limit of QP more than 6dB, just peak value were recorded

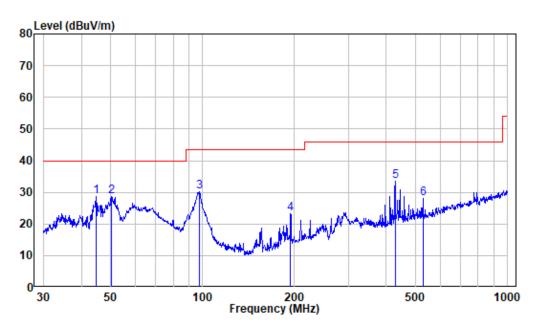
For Adapter 1(Model: AT-538A-050100A)

Horizontal:



Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS21121-66225E-RF
Test Mode:	тх
Model :	AT-538A-050100A

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	98.142	-12.21	34.86	22.65	43.50	-20.85	Peak
2	156.458	-14.75	37.54	22.79	43.50	-20.71	Peak
3	194.453	-11.37	37.66	26.29	43.50	-17.21	Peak
4	225.308	-11.25	38.16	26.91	46.00	-19.09	Peak
5	428.019	-5.82	39.78	33.96	46.00	-12.04	Peak
6	528.246	-4.49	36.88	32.39	46.00	-13.61	Peak



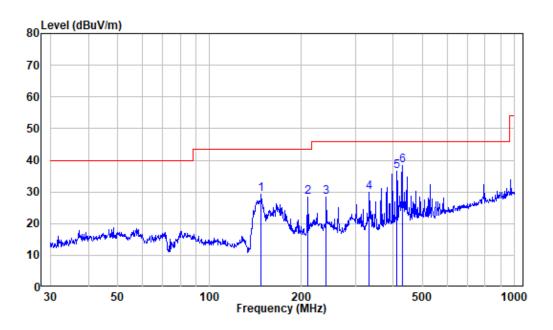
Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZNS21121-66225E-RF Test Mode: TX Model : AT-538A-050100A

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	44.587	-9.92	38.51	28.59	40.00	-11.41	Peak
2	50.057	-9.91	38.50	28.59	40.00	-11.41	Peak
3	97.456	-12.27	42.47	30.20	43.50	-13.30	Peak
4	193.773	-11.31	34.56	23.25	43.50	-20.25	Peak
5	428.019	-5.82	39.33	33.51	46.00	-12.49	Peak
6	528.246	-4.49	32.69	28.20	46.00	-17.80	Peak

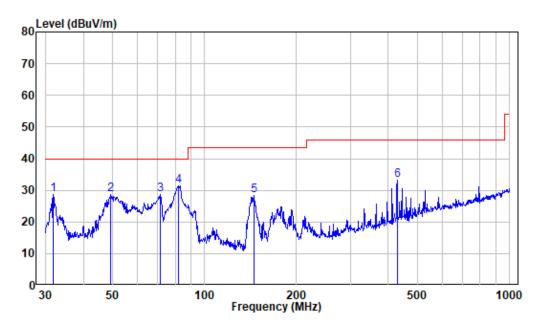
For Adapter 2(Model: BQ05A-0501000-U)





Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS21121-66225E-RF
Test Mode:	тх
Model :	BQ05A-0501000-U

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	147.404	-15.43	44.68	29.25	43.50	-14.25	Peak
2	210.048	-11.85	40.31	28.46	43.50	-15.04	Peak
3	240.830	-10.85	39.28	28.43	46.00	-17.57	Peak
4	333.687	-7.72	37.54	29.82	46.00	-16.18	Peak
5	411.824	-6.29	42.72	36.43	46.00	-9.57	Peak
6	428.019	-5.82	44.03	38.21	46.00	-7.79	Peak



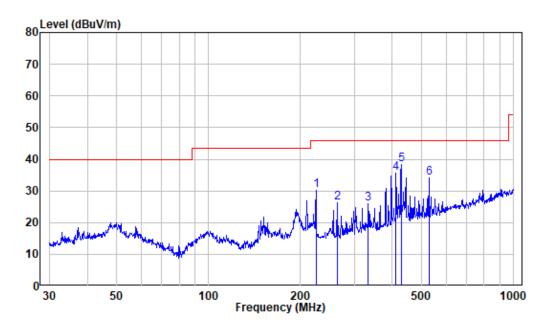
Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZNS21121-66225E-RF Test Mode: TX Model : BQ05A-0501000-U

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.955	-12.17	40.95	28.78	40.00	-11.22	Peak
2	49.187	-9.95	38.60	28.65	40.00	-11.35	Peak
3	71.330	-15.34	43.93	28.59	40.00	-11.41	Peak
4	81.783	-16.68	48.22	31.54	40.00	-8.46	Peak
5	144.842	-15.51	43.96	28.45	43.50	-15.05	Peak
6	428.019	-5.82	38.94	33.12	46.00	-12.88	Peak

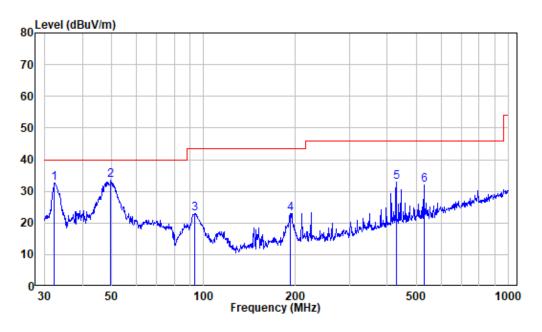
For Adapter 3(Model: EP04-050100WXLZ)





Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS21121-66225E-RF
Test Mode:	ТХ
Model :	EP04-050100WXLZ

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	225.308	-11.25	41.39	30.14	46.00	-15.86	Peak
2	263.819	-10.48	36.76	26.28	46.00	-19.72	Peak
3	333.687	-7.72	33.69	25.97	46.00	-20.03	Peak
4	411.824	-6.29	41.99	35.70	46.00	-10.30	Peak
5	428.019	-5.82	44.09	38.27	46.00	-7.73	Peak
6	528.246	-4.49	38.66	34.17	46.00	-11.83	Peak



Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZNS21121-66225E-RF Test Mode: TX Model : EP04-050100WXLZ

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	32.406	-12.11	44.80	32.69	40.00	-7.31	Peak
2	49.533	-9.93	43.31	33.38	40.00	-6.62	Peak
3	93.440	-12.87	35.81	22.94	43.50	-20.56	Peak
4		-11.29	34.36	23.07	43.50	-20.43	Peak
5	428.019	-5.82	38.72	32.90	46.00	-13.10	Peak
6	528.246	-4.49	36.46	31.97	46.00	-14.03	Peak

	Re	eceiver	T (11)	Rx Antenna		Corrected	Corrected		
Frequency (MHz)	Reading (dBµV)	PK/QP/AV	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			L	ow Cha	nnel				
2310	67.97	PK	14	1	Н	-7.24	60.73	74	-13.27
2310	55.08	AV	14	1	Н	-7.24	47.84	54	-6.16
2310	68.53	PK	251	1.5	V	-7.24	61.29	74	-12.71
2310	54.96	AV	251	1.5	V	-7.24	47.72	54	-6.28
2390	79.41	РК	134	1.3	Н	-7.22	72.19	74	-1.81
2390	55.46	AV	134	1.3	Н	-7.22	48.24	54	-5.76
2390	74.31	РК	290	2.5	V	-7.22	67.09	74	-6.91
2390	55.37	AV	290	2.5	V	-7.22	48.15	54	-5.85
4810	53.91	РК	55	1.7	Н	-3.52	50.39	74	-23.61
4810	54.28	РК	225	2.5	V	-3.52	50.76	74	-23.24
			Mi	ddle Ch	annel				
4878	54.70	PK	225	1.5	Н	-3.56	51.14	74	-22.86
4878	54.74	РК	94	1.8	V	-3.56	51.18	74	-22.82
			Н	igh Cha	nnel				
2483.5	76.85	PK	145	1.4	Н	-7.2	69.65	74	-4.35
2483.5	56.60	AV	145	1.4	Н	-7.2	49.4	54	-4.60
2483.5	79.76	PK	155	1.7	V	-7.2	72.56	74	-1.44
2483.5	56.63	AV	155	1.7	V	-7.2	49.43	54	-4.57
2500	68.33	PK	83	2.4	Н	-7.18	61.15	74	-12.85
2500	56.95	AV	83	2.4	Н	-7.18	49.77	54	-4.23
2500	68.96	РК	231	1.1	V	-7.18	61.78	74	-12.22
2500	57.16	AV	231	1.1	V	-7.18	49.98	54	-4.02
4950	54.04	РК	74	1.5	Н	-3.04	51	74	-23.00
4950	54.06	РК	255	2.3	V	-3.04	51.02	74	-22.98

Above 1GHz: (worst case is adapter 2)

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude – Limit

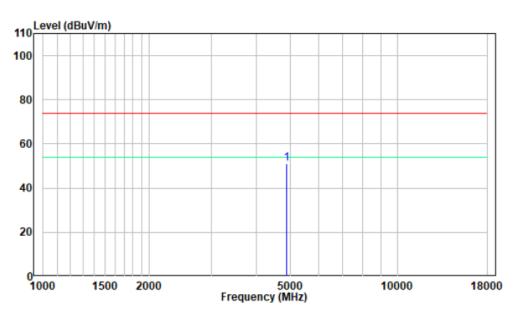
The other spurious emission is in the noise floor level was not recorded. The test result of peak was less than the limit of average, so just peak value were recorded.

1-18GHz

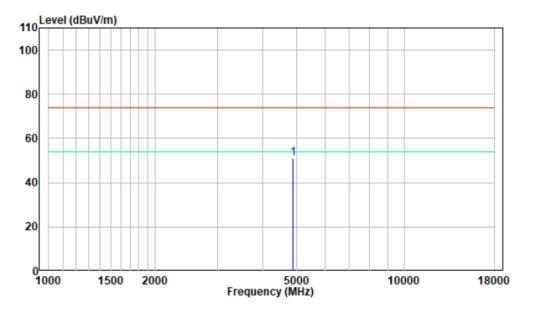
Pre-scan for

Middle Channel

Horizontal:





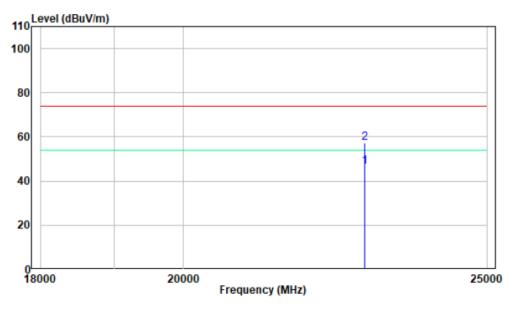


18-25GHz

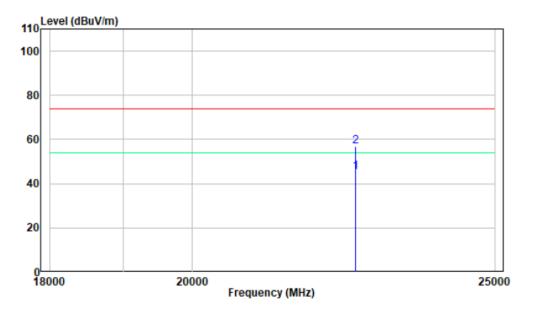
Pre-scan for

Middle Channel









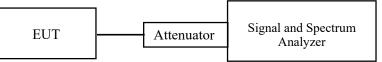
FCC §15.247(a) (1) & RSS-247 § 5.1 (b)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems (FHSs) shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

- 1. Set the EUT in transmitting mode, maxhold the channel and in Operating mode, RBW was set at 500 kHz, VBW≥ RBW max-hold the channel.
- 2. Set the adjacent channel of the EUT and maxhold another trace.
- 3. Measure the channel separation.



Test Data

Environmental Conditions

Temperature:	25 °C		
Relative Humidity:	54 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Caro Hu on 2022-01-05.

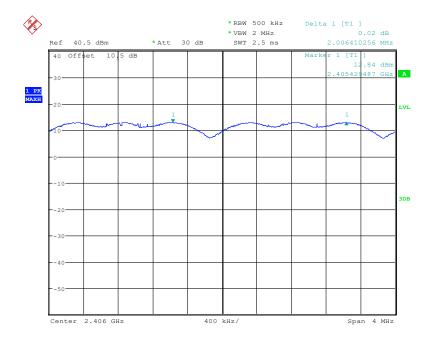
EUT operation mode: Transmitting

Test Result: Compliant.

The worst case as below:

Frequency (MHz)	Channel Separation (MHz)	20 dBc BW (MHz)	Two-thirds of the 20 dB bandwidth (MHz)	Channel Separation Limit
2405-2407	2.006	2.365	1.577	> two-thirds of the 20 dB bandwidth

Please refer to the below plots:



Date: 5.JAN.2022 00:39:57

FCC §15.247(a) (1) & RSS-GEN § 6.7 & RSS-247 § 5.1 (a)–99% OCCUPIED BANDWIDTH & 20 dB EMISSION BANDWIDTH

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "20 dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 20 dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.

• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Shenzhen Accurate Technology Co., Ltd.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

		Signal and Spectrum
EUT	Attenuator	Analyzer

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro Hu on 2022-01-05.

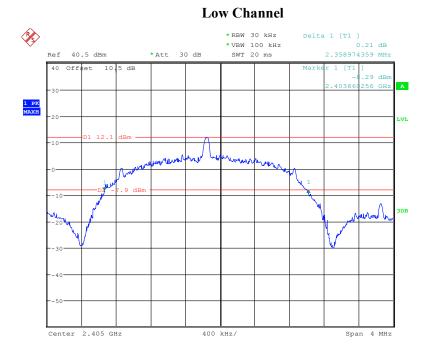
EUT operation mode: Transmitting

Test Result: Compliant.

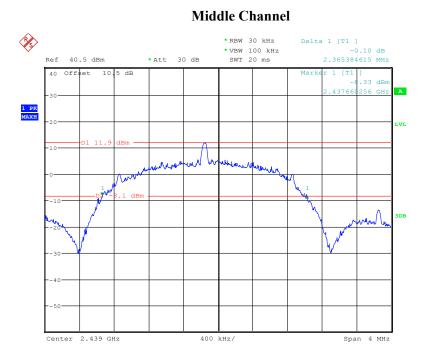
Channel	Frequency (MHz)	99% Emission Bandwidth (MHz)	20 dB Emission Bandwidth (MHz)
Low	2405	2.295	2.359
Middle	2439	2.295	2.365
High	2475	2.288	2.356

Please refer to the below plots:

20 dB emission bandwidth



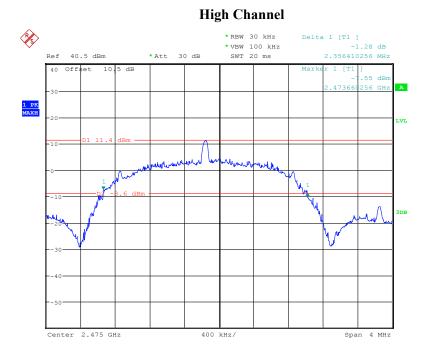
Date: 5.JAN.2022 00:19:06



Date: 5.JAN.2022 00:17:01

Version 30: 2021-11-09

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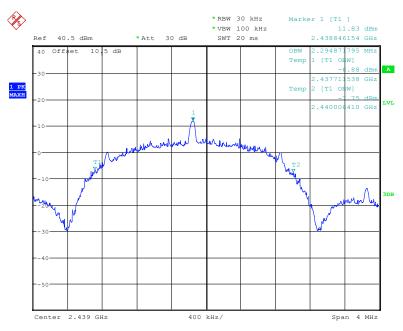


Date: 5.JAN.2022 00:18:05

99% emission bandwidth

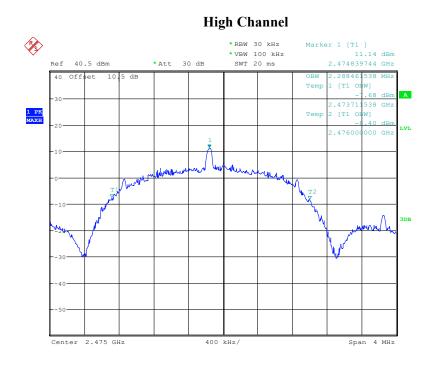
Low Channel Ś Marker 1 [T1] 11.98 dBm 2.404846154 GHz *RBW 30 kHz * VBW 100 kHz SWT 20 ms Ref 40.5 dBm * Att 30 dB 2.29487 1 [T1 C Offset 40 10.5 dB OBW Temp A .4037 GH 1 PK MAXH Temp [T1 O .64 dB LVL 2.406006410 GH Ā 4 1.1 Λ Center 2.405 GHz 400 kHz/ Span 4 MHz

Date: 5.JAN.2022 00:14:58



Middle Channel

Date: 5.JAN.2022 00:16:00



Date: 5.JAN.2022 00:14:09

Version 30: 2021-11-09

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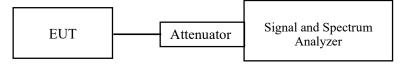
FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems (FHSs) in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the max-hold function record the quantity of the channel.



Test Data

Environmental Conditions

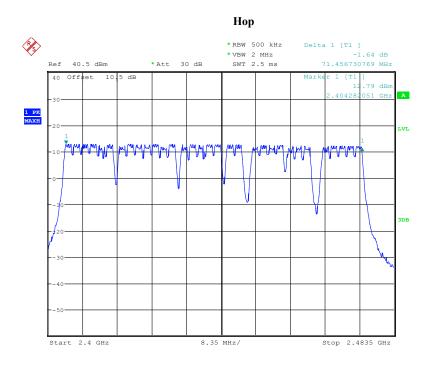
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro Hu on 2022-01-05.

EUT operation mode: Transmitting

Test Result: Compliant.

Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
2405-2475	32	≥15



Date: 5.JAN.2022 00:50:21

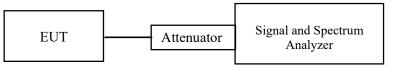
FCC §15.247(a) (1) (iii) & RSS-247 § 5.1 (d) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems (FHSs) in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW $\geq 3 \times RBW$.
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses



Test Data

Environmental Conditions

Temperature:	25 °C	
Relative Humidity:	54 %	
ATM Pressure:	101.0 kPa	

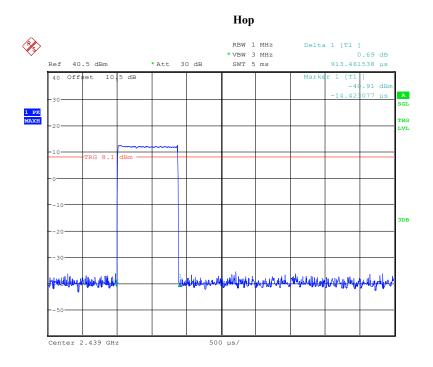
The testing was performed by Caro Hu on 2022-01-04.

EUT operation mode: Transmitting

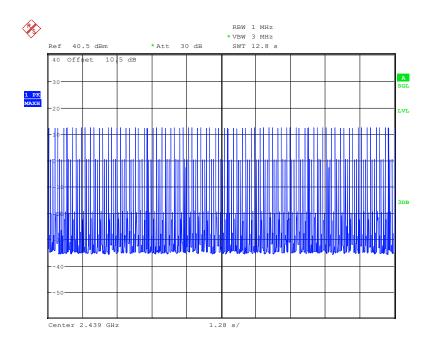
Test Result: Compliant.

Test Mode	Channel	Pulse Time (ms)	Total Hops	Period Time (s)	Dwell Time (ms)	Limit (ms)	Result
Hopping	2439	0.913	83	12.8	75.779	400	Pass

Note: A period time=0.4*32=12.8(s), Dwell Time= Pulse Time* Total Hops



Date: 4.JAN.2022 23:34:30



Date: 4.JAN.2022 23:32:56

Shenzhen Accurate Technology Co., Ltd.

FCC §15.247(b) (1) & RSS-247§ 5.1(b) &§ 5.4(b) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

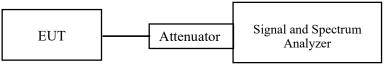
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

For frequency hopping systems (FHSs) operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W (see Section 5.4(e) for exceptions).

Frequency hopping systems (FHSs) shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the -20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, FHSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro Hu on 2022-01-05.

EUT operation mode: Transmitting

Shenzhen Accurate Technology Co., Ltd.

Test Result: Compliant.

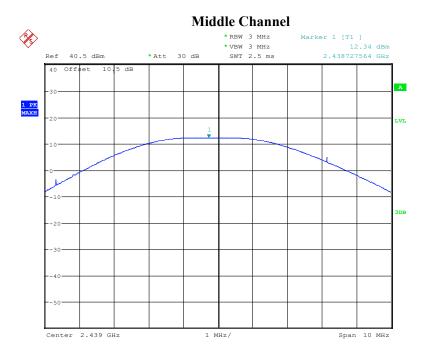
Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
	Low	2405	12.82	21
GFSK	Middle	2439	12.34	21
	High	2475	11.83	21

Note: the antenna gain is 0dBi, the maximum EIRP=12.82dBm+0dBi=12.82dBm<36dBm, so it's compliance with EIRP limit of ISEDC.

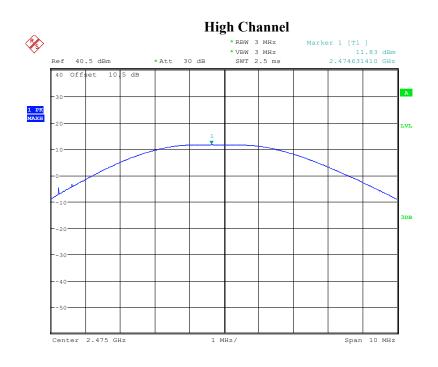


Date: 5.JAN.2022 00:11:55

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Date: 5.JAN.2022 00:13:03



Date: 5.JAN.2022 00:13:29

FCC §15.247(d) & RSS-247 § 5.5 - BAND EDGES TESTING

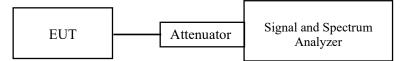
Applicable Standard

According to FCC §15.247(d) & RSS-247 § 5.5.

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 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)) & RSS-Gen.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

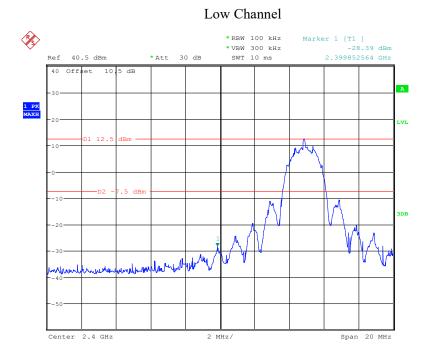
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Caro Hu on 2022-01-05.

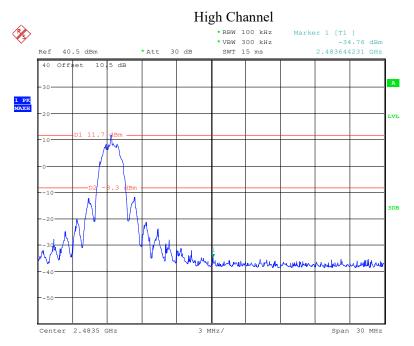
EUT operation mode: Transmitting

Test Result: Compliant.

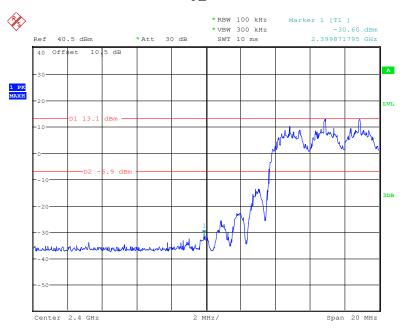
Conducted Band Edge Result:



Date: 5.JAN.2022 00:20:00

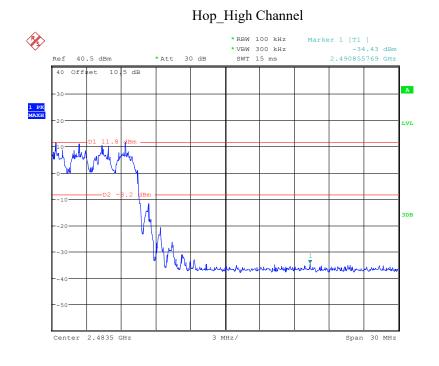


Date: 5.JAN.2022 00:20:56



Hop_Low Channel

Date: 5.JAN.2022 00:28:16



Date: 5.JAN.2022 00:23:36

***** END OF REPORT *****

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