



1602 Zhongan Building, Guangchang Road Wenjing Community, Buji

St., Longgang Dist., Shenzhen, Guangdong, China, 518000

TEST REPORT

Shenzhen Srhythm Industry Co., Ltd.

SZNS1220215-04581E-RF

2A4TBN1712

Applicant Name : Address :

Report Number : FCC ID:

Test Standard (s) FCC PART 15.247

Sample Description

Product Type:	Bluetooth headphone
Model No.:	NC25
Multiple Model No.:	NC25 Pro, NC35
Date Received:	2022-02-15
Date of Test:	2022-02-17 to 2022-02-19
Report Date:	2022-02-21

Test Result:

Pass*

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

Prepared and Checked By:

Blueke

Black Ding EMC Engineer **Approved By:**

Candry . Cr

Candy Li EMC Engineer

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

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

Version 11: 2021-11-09

Page 1 of 63

FCC-BT

Shenzhen Accurate Technology Co., Ltd.

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
Objective Test Methodology	
MEASUREMENT UNCERTAINTY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	6
DESCRIPTION OF TEST CONFIGURATION	
EUT EXERCISE SOFTWARE	
Special Accessories Equipment Modifications	
SUPPORT EQUIPMENT LIST AND DETAILS	
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	
TEST EQUIPMENT LIST	9
FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE	10
APPLICABLE STANDARD	
TEST RESULT:	
FCC §15.203 – ANTENNA REQUIREMENT	
APPLICABLE STANDARD	
ANTENNA CONNECTOR CONSTRUCTION	
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP EMI TEST RECEIVER SETUP	
Test Procedure	13
FACTOR & MARGIN CALCULATION	
TEST DATA	
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS	
APPLICABLE STANDARD	
EUT SETUP EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
Test Procedure	
FACTOR & MARGIN CALCULATION	
TEST DATA	17
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	
APPLICABLE STANDARD	
TEST PROCEDURE TEST DATA	
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH	
APPLICABLE STANDARD	
Test Procedure	
TEST DATA	
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	

Shenzhen Accurate Technology Co., Ltd.	Report No.: SZNS1220215-04581E-RF
APPLICABLE STANDARD	Report No.: SZNS1220215-04581E-RF
TEST PROCEDURE	
TEST DATA	
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DW	/ELL TIME)41
APPLICABLE STANDARD	
TEST PROCEDURE	
TEST DATA	
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASU	JREMENT
Test Procedure	
TEST DATA	
FCC §15.247(d) - BAND EDGES TESTING	
APPLICABLE STANDARD	
TEST PROCEDURE	

GENERAL INFORMATION

Product	Bluetooth headphone
Tested Model No.	NC25
Multiple Model No.	NC25 Pro, NC35
Model Difference*	Please refer to the DoS letter
Frequency Range	2402~2480MHz
Maximum conducted Peak output power	-1.98dBm
Modulation Technique	GFSK, π/4-DQPSK, 8DPSK
Antenna Specification*	Internal PCB Antenna: 0dBi(provided by the applicant)
Voltage Range	DC 3.7V from battery or DC 5V from USB port.
Sample number	SZNS1220215-04581E-RF-S1
Sample/EUT Status	Good condition

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 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

Para	meter	Uncertainty
Occupied Char	nnel Bandwidth	5%
RF output pov	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
Rudiated	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.

EUT Exercise Software

Software "BT FCC Tool V2.00"* was used during testing and the power level was 0*.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

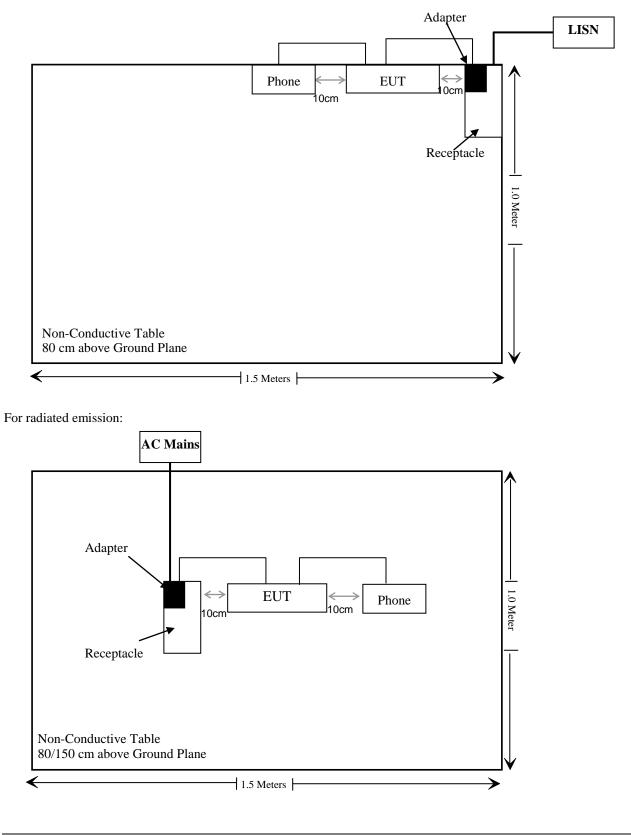
Manufacturer	Description	Model	Serial Number
SHENZHEN KEYU POWER SUPPLY TECHNOLOGY CO.,LTD	Adapter	KA1803A-US	2045
Lenovo	Mobile Phone	Lenovo A7020a48	0560

External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-shielding Detachable USB Cable	0.6	EUT	Adapter
Un-shielding Detachable AUX IN Cable	UX IN Cable 0.5 EUT Mobile		Mobile Phone

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 1.1307 , § 2.1093	RF Exposure (SAR)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
		Conducted Emiss	sions Test			
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12	
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 E	mission Test Soft	tware: e3 19821b (V9)		
		Radiated Emissi	ons Test			
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-184055 36-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	
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13	
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	
	Radiated Emission Test Software: e3 19821b (V9)					
		RF Conducted				
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12	
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12	
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13	
Unknown	RF Coaxial Cable	No.32	RF-02	Each time		

* **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.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Test Result:

For worst case:

Mode	Frequency	Maximum Tune-up power		Calculated Distance	Calculated	Threshold	SAR Test
	(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion
BDR/EDR	2480	-1.5	0.71	5	0.2	3.0	Yes

Result: Compliant.

FCC §15.203 – 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.

Antenna Connector Construction

The EUT has one internal PCB Antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

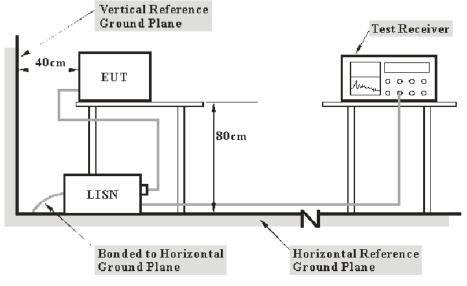
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm 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.

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.

Factor & Margin Calculation

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

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, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Test Data

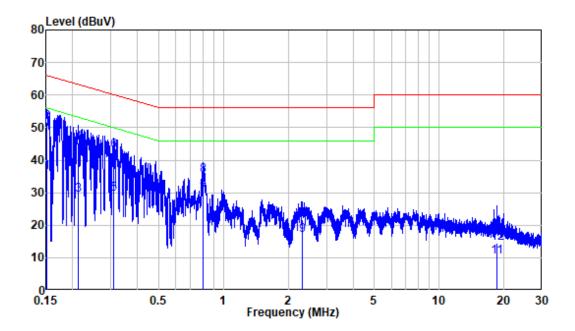
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Duan on 2022-02-17.

EUT operation mode: Charging+BT transmitting

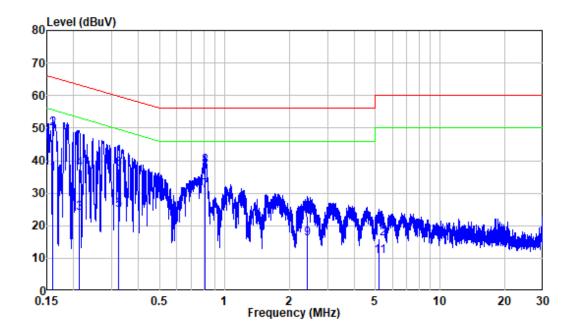
AC 120V/60 Hz, Line



Site	:	Shielding Room
Condition	:	Line
Mode	:	Charging+ BT transmitting
Model	:	NC25
Power	:	AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	9.90	26.26	36.16	55.91	-19.75	Average
2	0.152	9.90	41.65	51.55	65.91	-14.36	QP
3	0.211	9.80	19.56	29.36	53.15	-23.79	Average
4	0.211	9.80	35.45	45.25	63.15	-17.90	QP
5	0.310	9.80	19.77	29.57	49.98	-20.41	Average
6	0.310	9.80	32.97	42.77	59.98	-17.21	QP
7	0.804	9.81	19.62	29.43	46.00	-16.57	Average
8	0.804	9.81	25.59	35.40	56.00	-20.60	QP
9	2.317	9.92	7.05	16.97	46.00	-29.03	Average
10	2.317	9.92	11.71	21.63	56.00	-34.37	QP
11	18.438	10.15	0.20	10.35	50.00	-39.65	Average
12	18.438	10.15	4.23	14.38	60.00	-45.62	QP

AC 120V/60 Hz, Neutral



Site	:	Shielding Room
Condition	:	Neutral
Mode	:	Charging+ BT transmitting
Model	:	NC25
Power	:	AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.160	9.80	26.01	35.81	55.47	-19.66	Average
2	0.160	9.80	39.96	49.76	65.47	-15.71	QP
3	0.212	9.80	14.08	23.88	53.12	-29.24	Average
4	0.212	9.80	27.66	37.46	63.12	-25.66	QP
5	0.322	9.80	15.07	24.87	49.66	-24.79	Average
6	0.322	9.80	27.68	37.48	59.66	-22.18	QP
7	0.811	9.81	20.90	30.71	46.00	-15.29	Average
8	0.811	9.81	28.68	38.49	56.00	-17.51	QP
9	2.409	9.82	6.08	15.90	46.00	-30.10	Average
10	2.409	9.82	13.27	23.09	56.00	-32.91	QP
11	5.218	9.90	0.67	10.57	50.00	-39.43	Average
12	5.218	9.90	6.19	16.09	60.00	-43.91	QP -

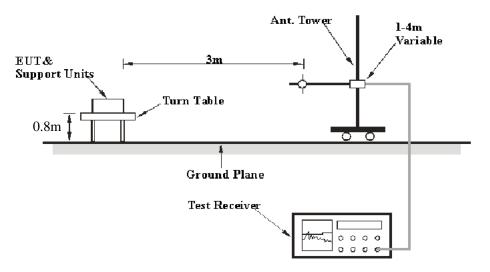
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

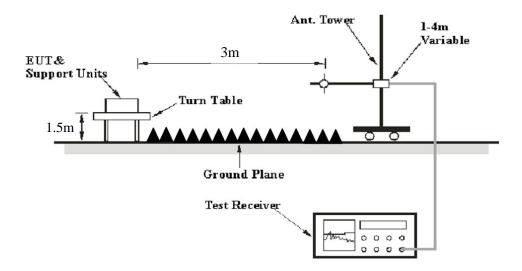
FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission 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.

EMI Test Receiver & Spectrum Analyzer Setup

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

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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.

Factor & Margin Calculation

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

Factor = 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 calculation is as follows:

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

Test Data

Environmental Conditions

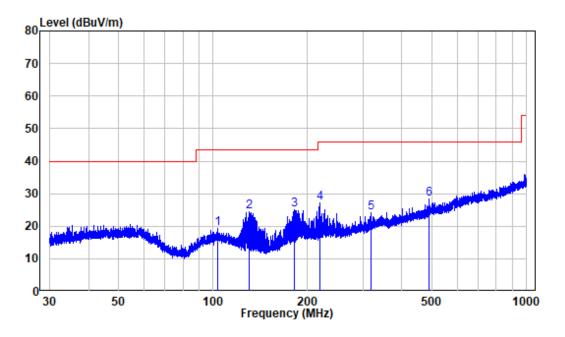
Temperature:	19 °C
Relative Humidity:	58 %
ATM Pressure:	101.8 kPa

The testing was performed by Caro Hu on 2022-02-19.

EUT operation mode: Transmitting

(Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK mode at X axis, Y axis, Z axis, the worst case is $\pi/4$ -DQPSK Mode at X axis)

Below 1GHz: π/4-DQPSK Mode, Low Channel

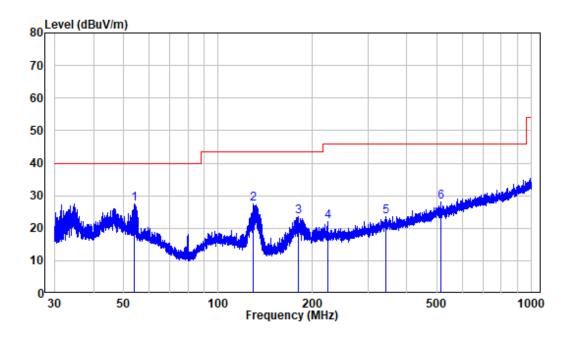


Horizontal

Site : chamber Condition: 3m HORIZONTAL Model. : NC25 Test Mode: BT transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	103.125	-11.66	30.87	19.21	43.50	-24.29	Peak
2	130.151	-14.89	39.32	24.43	43.50	-19.07	Peak
3	181.522	-12.60	37.67	25.07	43.50	-18.43	Peak
4	219.460	-11.44	38.54	27.10	46.00	-18.90	Peak
5	318.119	-8.56	32.66	24.10	46.00	-21.90	Peak
6	489.456	-4.70	33.23	28.53	46.00	-17.47	Peak





Site : chamber Condition: 3m VERTICAL Model. : NC25 Test Mode: BT transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	53.811	-10.31	37.72	27.41	40.00	-12.59	Peak
2	128.902	-14.79	42.12	27.33	43.50	-16.17	Peak
3	179.938	-12.78	36.46	23.68	43.50	-19.82	Peak
4	223.635	-11.29	33.21	21.92	46.00	-24.08	Peak
5	343.933	-7.26	30.96	23.70	46.00	-22.30	Peak
6	512.733	-4.27	32.46	28.19	46.00	-17.81	Peak

Shenzhen Accurate Technology Co., Ltd.

Frequency	Receiver		Turntable Angle	Rx Antenna		Factor	Absolute Level	Limit	Margin
(MHz)	Reading	Reading PK/AV		Height	Polar	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)
	Reading (dBuV) PK/AV Degree Reading (m) Point			· · · ·					
		-		Low Ch	annel	-			
2310	52.96	РК	116	2.0	Н	-7.23	45.73	74	-28.27
2310	51.69	PK	359	1.8	V	-7.23	44.46	74	-29.54
2390	52.76	РК	29	1.6	Н	-7.21	45.55	74	-28.45
2390	56.82	РК	355	2.1	V	-7.21	49.61	74	-24.39
4804	52.87	РК	332	1.4	Н	-3.52	49.35	74	-24.65
4804	52.07	РК	68	1.9	V	-3.52	48.55	74	-25.45
9608	47.42	РК	297	1.3	Н	6.48	53.9	74	-20.1
9608	44.07	РК	311	1.5	V	6.48	50.55	74	-23.45
				Middle C	hannel				
4882	50.76	РК	229	1.3	Н	-3.37	47.39	74	-26.61
4882	47.69	РК	176	1.1	V	-3.37	44.32	74	-29.68
9764	46.33	РК	154	1.2	Н	6.8	53.13	74	-20.87
9764	42.9	РК	94	1.8	V	6.8	49.7	74	-24.3
				High Ch	annel				
2483.5	57.36	PK	142	1.4	Н	-7.2	50.16	74	-23.84
2483.5	55.63	PK	164	2.0	V	-7.2	48.43	74	-25.57
2500	52.53	PK	64	1.2	Н	-7.18	45.35	74	-28.65
2500	52.77	РК	125	1.5	V	-7.18	45.59	74	-28.41
4960	50.1	РК	193	1.8	Н	-3.01	47.09	74	-26.91
4960	47.14	РК	135	1.3	V	-3.01	44.13	74	-29.87
9920	45.6	РК	356	1.4	Н	6.95	52.55	74	-21.45
9920	42.52	РК	317	1.9	V	6.95	49.47	74	-24.53

Above 1GHz (worst case for $\pi/4$ -DQPSK):

Note:

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

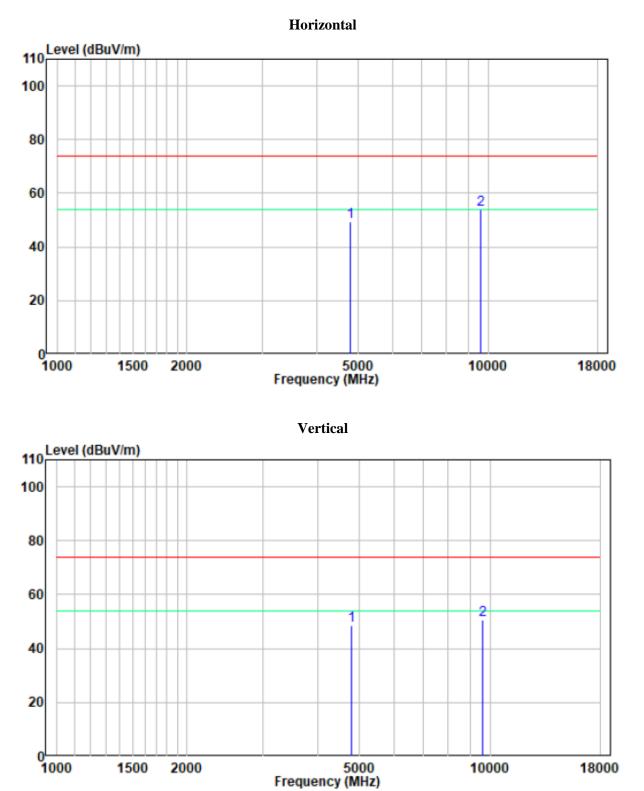
Absolute Level (Corrected Amplitude)= Factor + Reading

Margin = Absolute Level - Limit The other spurious emission which is in the noise floor level was not recorded.

For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

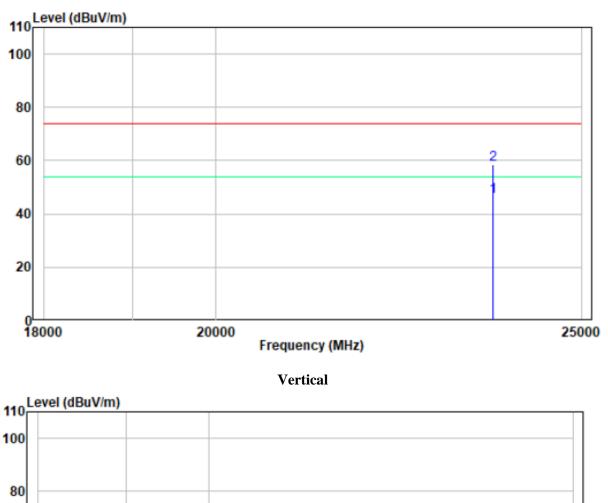
1 GHz - 18 GHz: (Pre-Scan plots)

Low Channel

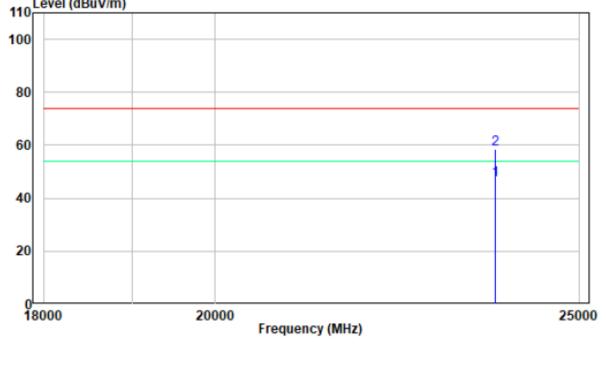


18-25GHz: (Pre-Scan plots)

Low Channel



Horizontal



FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems 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.
- 2. Set the adjacent channel of the EUT and maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	19 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

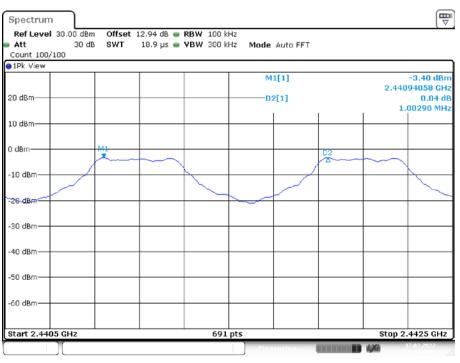
The testing was performed by Paul Liu on 2022-02-17

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.003	>=0.588	PASS
2DH1	Ant1	Нор	1.003	>=0.814	PASS
3DH1	Ant1	Нор	1.006	>=0.810	PASS

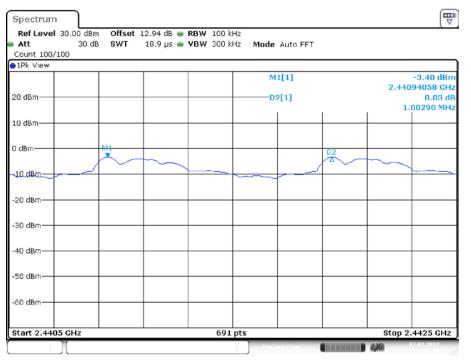
Please refer to the below plots:



DH1_Ant1_Hop

Date: 17.FEB.2022 14:30:10

2DH1_Ant1_Hop



Date: 17.FEB.2022 14:35:31

Ref Level 30.00 dB/ Att 30 d	B 🖷 RBW 100 kHz Is 👄 VBW 300 kHz	Mode Auto FFT		
Count 100/100 1Pk View				
20 dBm		M1[1]	2	-3.36 dBm .44123913 GH: 0.01 dE 1.00580 MH:
10 dBm				
0 dBm	M1			D2
10 dBm				
20 dBm				
30 dBm				
40 dBm				
50 dBm				
60 dBm				
Start 2.4405 GHz	691 pts			op 2.4425 GHz

3DH1_Ant1_Hop

Date: 17.FEB.2022 14:39:04

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED 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.

Test Procedure

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.

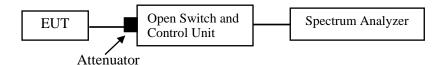
• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• 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.

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).



Test Data

Environmental Conditions

Temperature:	19 °C		
Relative Humidity:	48 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Paul Liu on 2022-02-17.

EUT operation mode: Transmitting

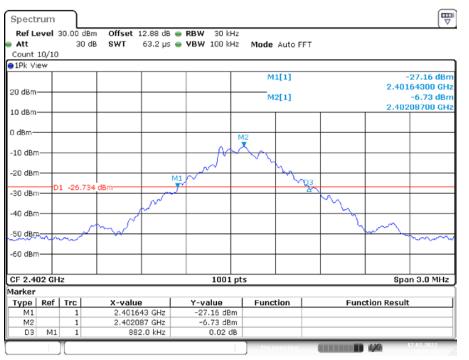
Test Result: Compliant.

Test Mode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.882		PASS
		2441	0.882		PASS
		2480	0.879		PASS
2DH1	Ant1	2402	1.221		PASS
		2441	1.221		PASS
		2480	1.221		PASS
3DH1	Ant1	2402	1.215		PASS
		2441	1.212		PASS
		2480	1.209		PASS

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.836	2401.673	2402.509		PASS
		2441	0.839	2440.673	2441.512		PASS
		2480	0.839	2479.673	2480.512		PASS
2DH1	Ant1	2402	1.148	2401.508	2402.656		PASS
		2441	1.145	2440.511	2441.656		PASS
		2480	1.148	2479.511	2480.659		PASS
3DH1	Ant1	2402	1.118	2401.538	2402.656		PASS
		2441	1.115	2440.541	2441.656		PASS
		2480	1.115	2479.541	2480.656		PASS

Please refer to the below plots:

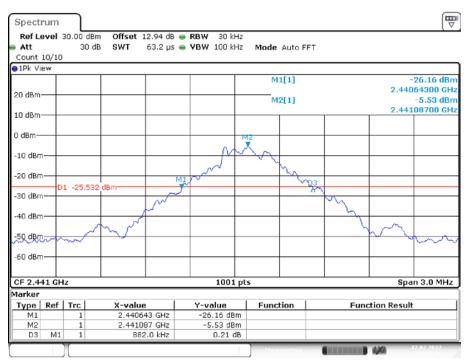
20 dB EMISSION BANDWIDTH



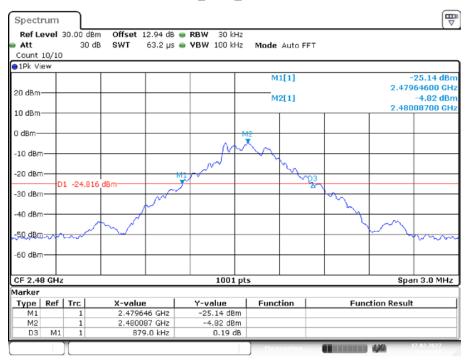
DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:18:47

DH1_Ant1_2441MHz



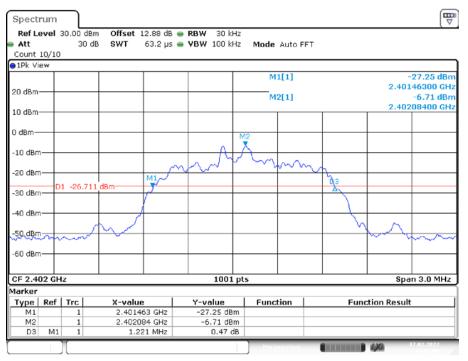
Date: 17.FEB.2022 14:20:00



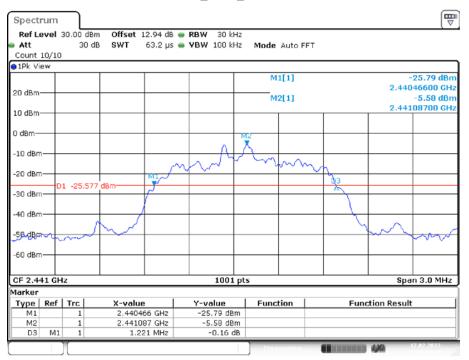
DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:20:51

2DH1_Ant1_2402MHz



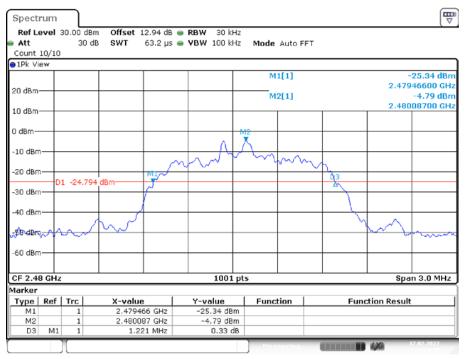
Date: 17.FEB.2022 14:22:00



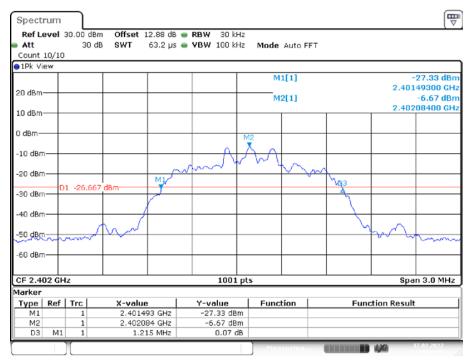
2DH1_Ant1_2441MHz

Date: 17.FEB.2022 14:23:20

2DH1_Ant1_2480MHz



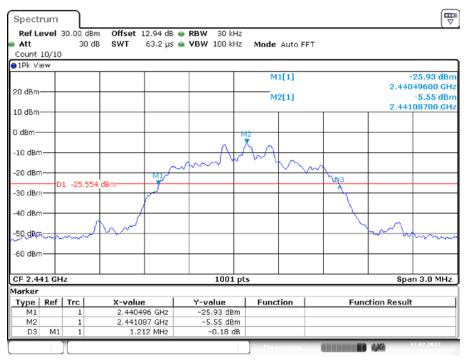
Date: 17.FEB.2022 14:24:18



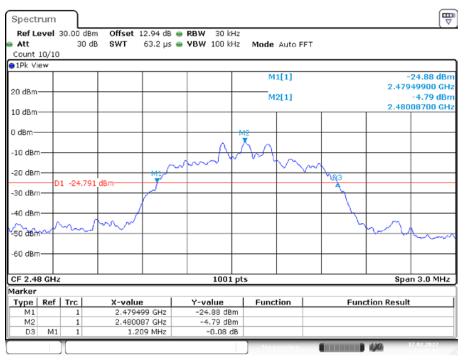
3DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:25:35

3DH1_Ant1_2441MHz



Date: 17.FEB.2022 14:26:54

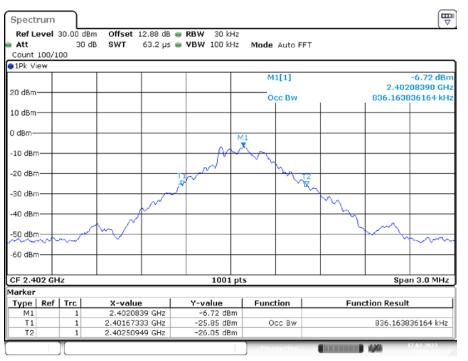


3DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:28:00

Shenzhen Accurate Technology Co., Ltd.

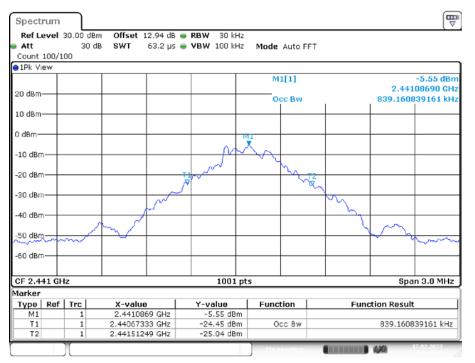
99% OCCUPIED BANDWIDTH



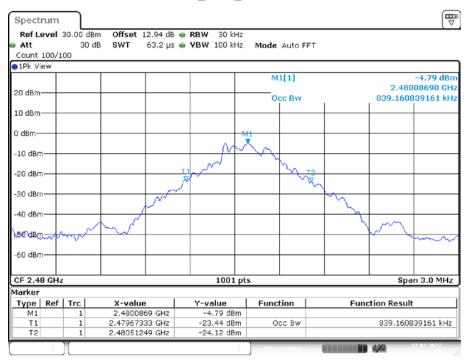
DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:19:04

DH1_Ant1_2441MHz



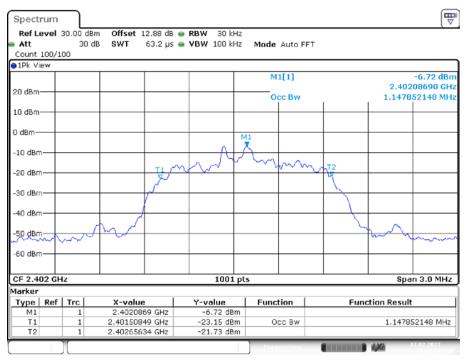
Date: 17.FEB.2022 14:20:17



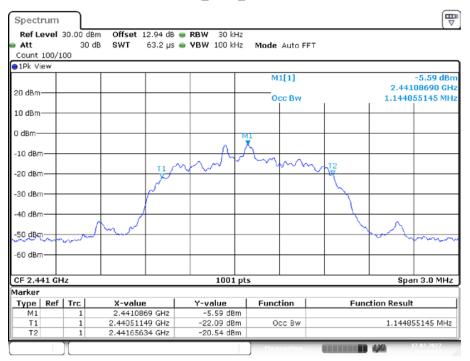
DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:21:07

2DH1_Ant1_2402MHz



Date: 17.FEB.2022 14:22:17



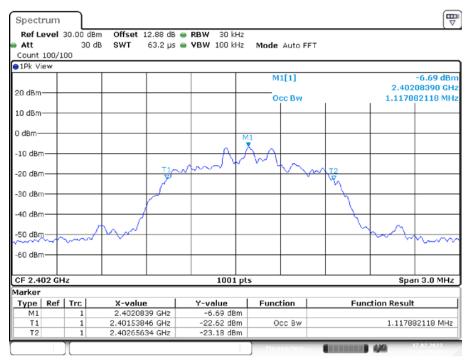
2DH1_Ant1_2441MHz

Date: 17.FEB.2022 14:23:37

2DH1_Ant1_2480MHz



Date: 17.FEB.2022 14:24:34



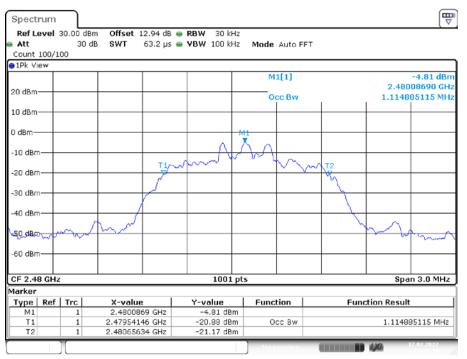
3DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:25:52

3DH1_Ant1_2441MHz



Date: 17.FEB.2022 14:27:11



3DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:28:17

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems 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:	19 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

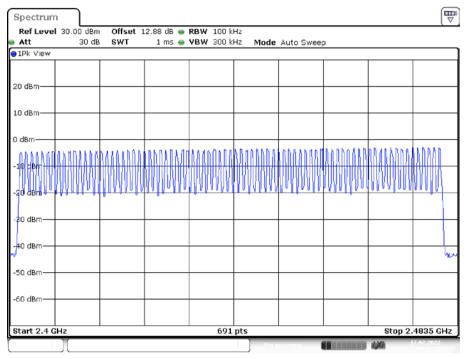
The testing was performed by Paul Liu on 2022-02-17.

EUT operation mode: Transmitting

Test Result: Compliant.

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	>=15	PASS
2DH1	Ant1	Нор	79	>=15	PASS
3DH1	Ant1	Нор	79	>=15	PASS

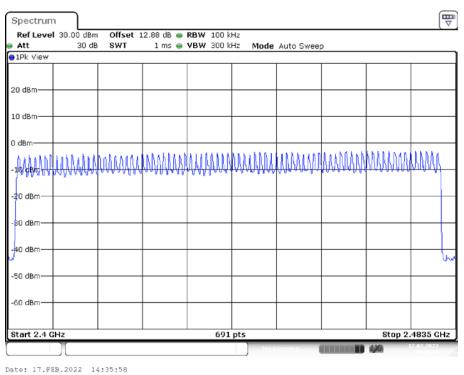
Shenzhen Accurate Technology Co., Ltd.



DH1_Ant1_Hop

Date: 17.FEB.2022 14:30:35

2DH1_Ant1_Hop



Ref Level Att	30.00 dBn 30 dB		12.88 dB 👄 1 ms 👄				Mode	Auto Swee;			
1Pk View	50 a.		1 115	1011	000 K	12	noue	Auto Swee	,		
20 dBm											
10 dBm											
D dBm											
-19 66-5	uimi	AMM		W	ЩЩ	Щ	AM	WWW		WWW	ЩЩ
-20 dBm											
-30 dBm											
40 dBm											
-50 dBm											
-60 dBm											
Start 2.4 G	47				691	nts				Ston 2	4835 GH

3DH1_Ant1_Hop

Date: 17.FEB.2022 14:39:31

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems 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:	19 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-17.

EUT operation mode: Transmitting

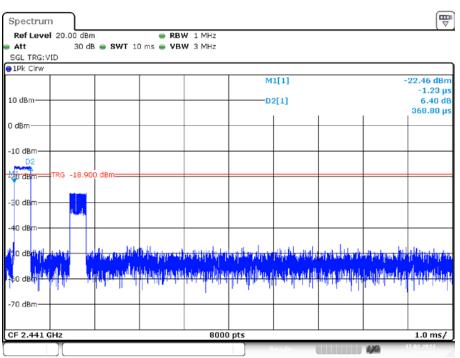
Test Result: Compliant.

Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.118	<=0.4	PASS
DH3	Ant1	Нор	1.61	160	0.257	<=0.4	PASS
DH5	Ant1	Hop	2.85	110	0.313	<=0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.121	<=0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.259	<=0.4	PASS
2DH5	Ant1	Hop	2.86	110	0.315	<=0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.120	<=0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	<=0.4	PASS
3DH5	Ant1	Нор	2.86	110	0.315	<=0.4	PASS

Note 1: A period time=0.4*79=31.6(s), Result=Burst Width*Total Hops

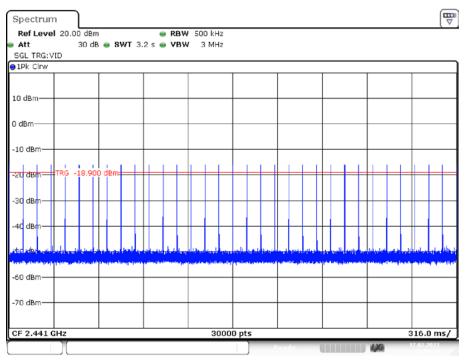
Note 2: Total Hops =Hopping Number in 3.16s*10

Note 3: Hoping Number in 3.16s=Total of highest signals in 3.16s (Second high signals were other channel)

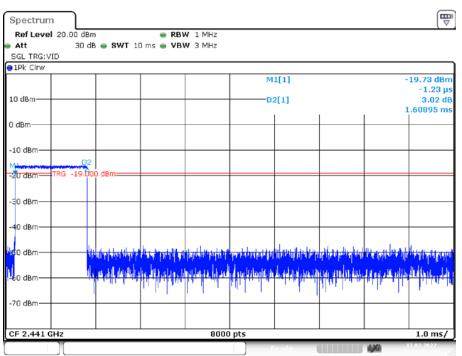


DH1_Ant1_Hop

Date: 17.FEB.2022 15:01:28

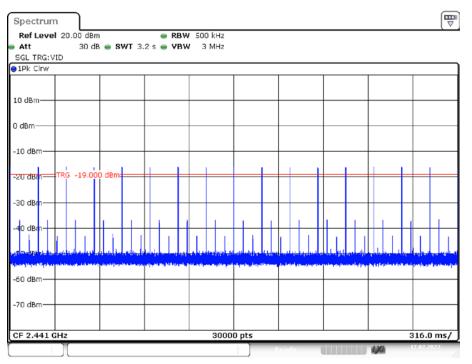


Date: 17.FEB.2022 15:01:33

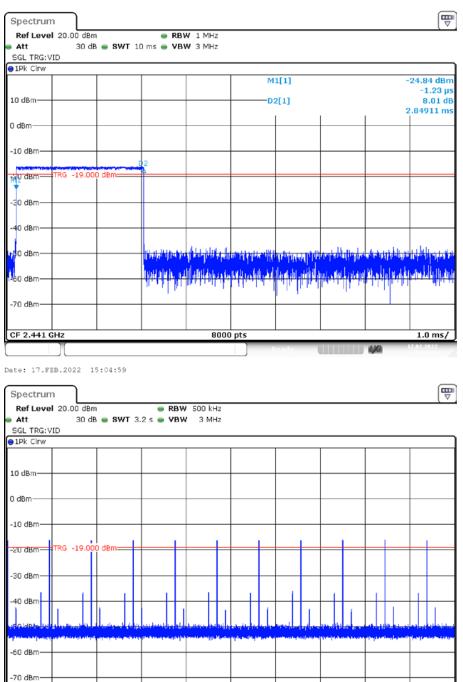


DH3_Ant1_Hop

Date: 17.FEB.2022 15:04:19



Date: 17.FEB.2022 15:04:24



DH5_Ant1_Hop

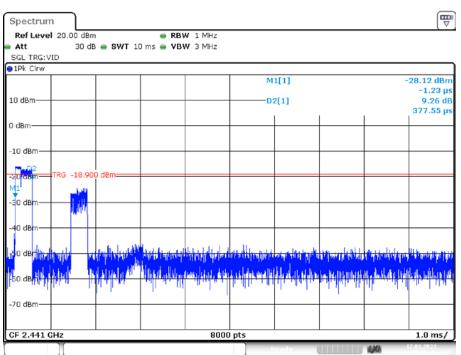
Date: 17.FEB.2022 15:05:04

CF 2.441 GHz

30000 pts

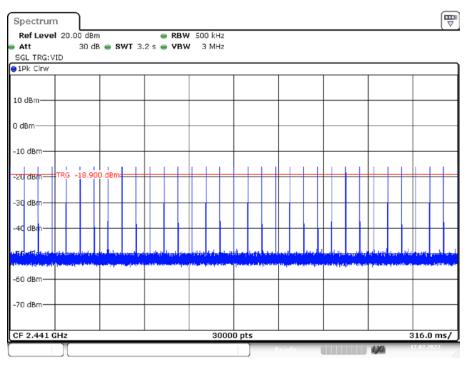
316.0 ms/

110

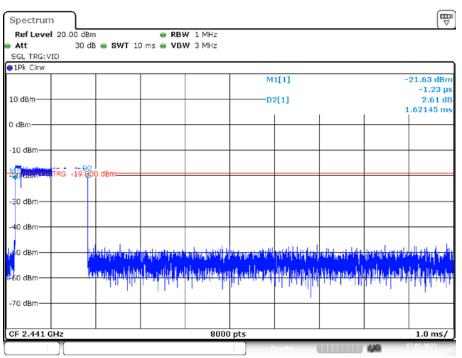


2DH1_Ant1_Hop

Date: 17.FEB.2022 15:05:42

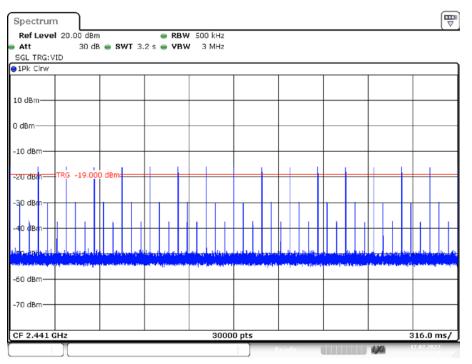


Date: 17.FEB.2022 15:05:51

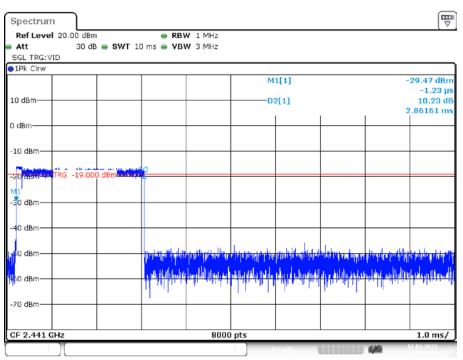


2DH3_Ant1_Hop

Date: 17.FEB.2022 15:06:23

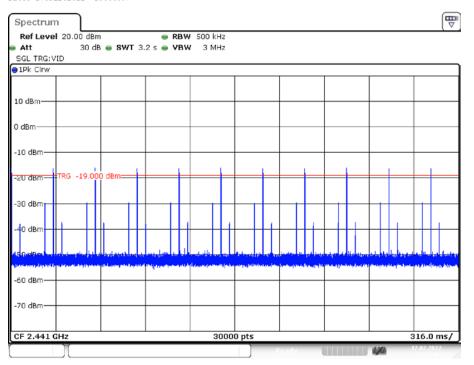


Date: 17.FEB.2022 15:06:28

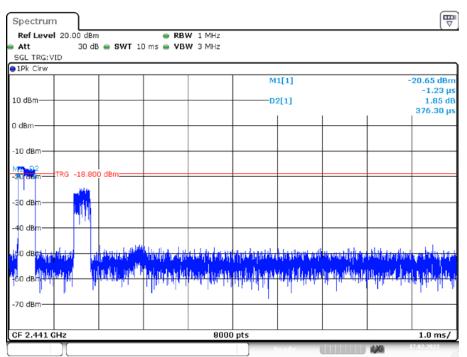


2DH5_Ant1_Hop

Date: 17.FEB.2022 15:06:57

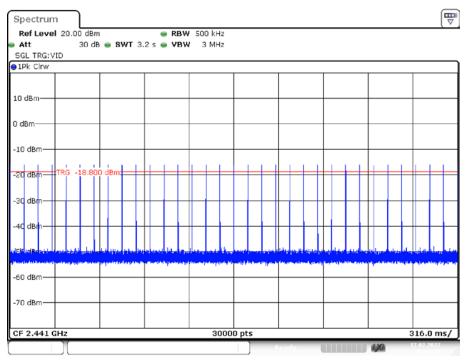


Date: 17.FEB.2022 15:07:02

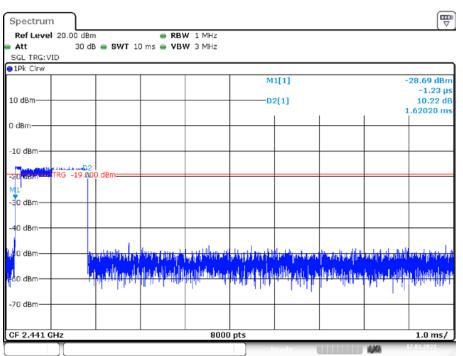


3DH1_Ant1_Hop

Date: 17.FEB.2022 15:07:32

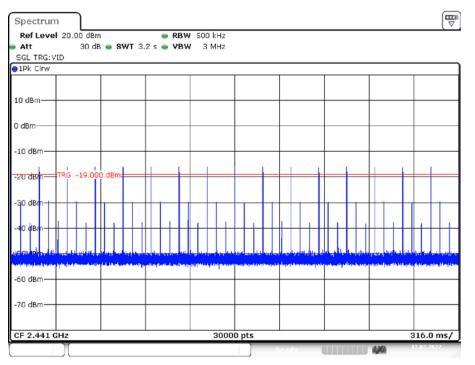


Date: 17.FEB.2022 15:07:37

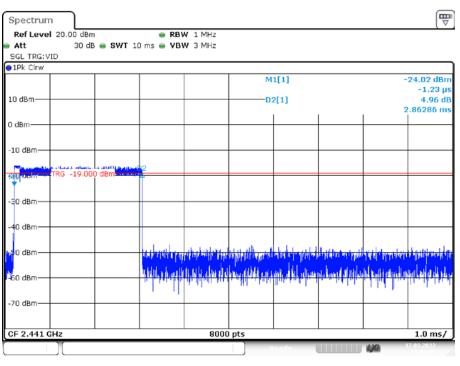


3DH3_Ant1_Hop

Date: 17.FEB.2022 15:08:05

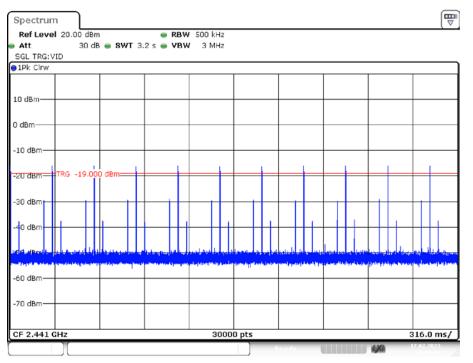


Date: 17.FEB.2022 15:08:11



3DH5_Ant1_Hop

Date: 17.FEB.2022 15:08:42



Date: 17.FEB.2022 15:08:47

FCC §15.247(b) (1) - 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.

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:	19 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

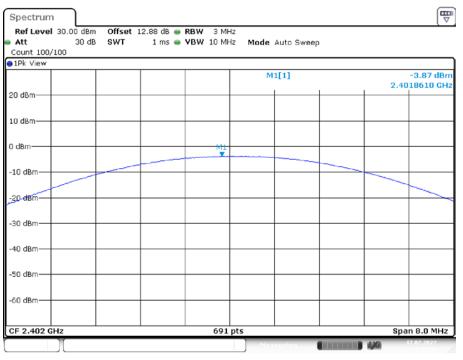
The testing was performed by Paul Liu on 2022-02-17.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
			-3.87	<=20.97	PASS
DH1	Ant1	2441	-2.82	<=20.97	PASS
		2480	-2.00	<=20.97	PASS
		2402	-3.83	<=20.97	PASS
2DH1	Ant1	2441	-2.79	<=20.97	PASS
		2480	-1.98	<=20.97	PASS
		2402	-3.77	<=20.97	PASS
3DH1	3DH1 Ant1	2441	-2.78	<=20.97	PASS
		2480	-2.05	<=20.97	PASS

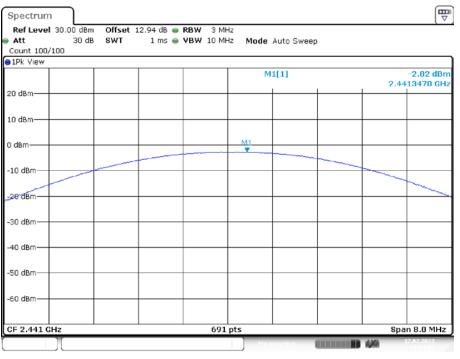
Shenzhen Accurate Technology Co., Ltd.



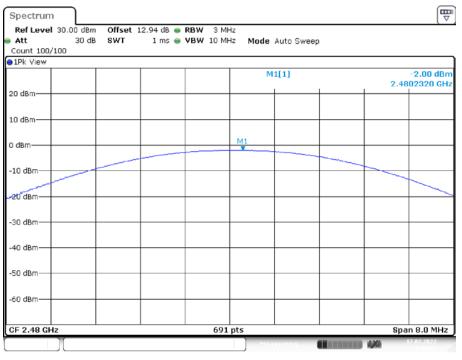
DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:13:38

DH1_Ant1_2441MHz



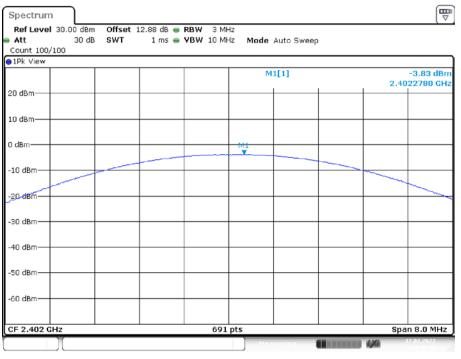
Date: 17.FEB.2022 14:14:06



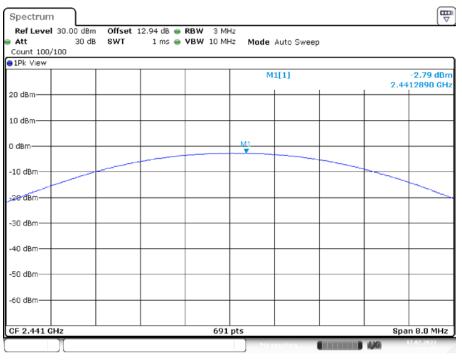
DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:14:28

2DH1_Ant1_2402MHz



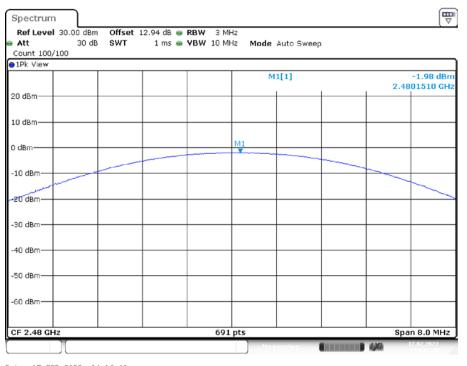
Date: 17.FEB.2022 14:15:36



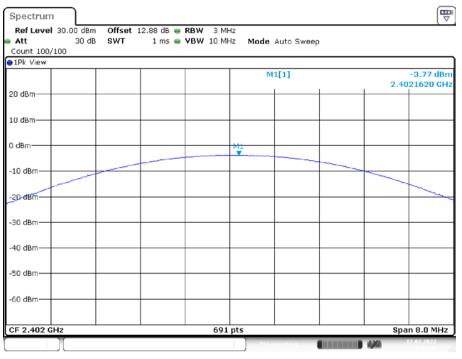
2DH1_Ant1_2441MHz

Date: 17.FEB.2022 14:16:07

2DH1_Ant1_2480MHz



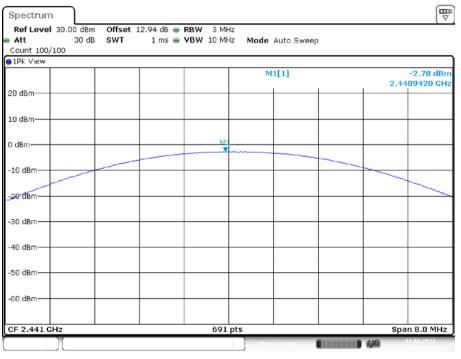
Shenzhen Accurate Technology Co., Ltd.



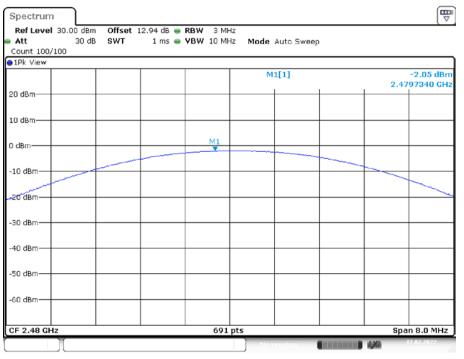
3DH1_Ant1_2402MHz

Date: 17.FEB.2022 14:17:05

3DH1_Ant1_2441MHz



Shenzhen Accurate Technology Co., Ltd.



3DH1_Ant1_2480MHz

Date: 17.FEB.2022 14:17:51

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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)).

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:	19 °C
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-02-17.

EUT operation mode: Transmitting

Test Result: Compliant.

Shenzhen Accurate Technology Co., Ltd. Conducted Band Edge Result:

DH1_Ant1_Low_2402MHz

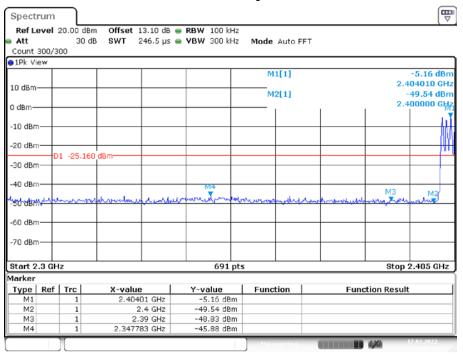
Spectrum	L					(₩
Ref Level			iB 👄 RBW 100 kHz			
Att		dB SWT 246.5	us 👄 VBW 300 kHz	Mode Auto F	FT	
Count 300/3 1Pk View	300					
1PK VIEW						
I				M1[1]		-4.51 dBm 2.401880 GHz
10 dBm —				M2[1]		-49.34 dBm
				M2[1]		2.400000 GHz
) dBm					1	2.400000 M12
-10 dBm						
-10 aBm						
-20 dBm						
	01 -24.5	10 dBm				
30 dBm						
I						
-40 dBm			1014			
		autoba Loundaria al Lin	er a phonoreman	He where a second second	In the last state	M3 M2
50 dBm	- water	mar handred and	Carly Manager		- the second second second	home where a
60 dBm						
-oo ubm						
-70 dBm						
/						
Start 2.3 GI	1-		691 pt			Stop 2.405 GHz
larker	12		oar hr	5		3tup 2.403 GH2
	1 - 1		1	1	-	
Type Ref		X-value	Y-value -4.51 dBm	Function	Fund	ction Result
M1 M2	1	2.40188 GH: 2.4 GH:				
M2 M3	1	2.4 GH				
M4	1	2.341543 GH				
	7			· · · · · · · · · · · · · · · · · · ·	COLUMN 1	

Date: 17.FEB.2022 14:19:19

DH1_Ant1_High_2480MHz

Ref Level			😑 RBW 100 kHz			
Att) dB SWT 1.1 ms	; 👄 VBW 300 kHz	Mode Auto S	Sweep	
Count 300/ 1Pk View	300					
IPK VIEW				M1[1]		-2.76 dBn
				miltl		2.480010 GH
LO dBm				M2[1]		-44.32 dBn
	M1					2.483500 GH
	ň					
10 dBm-						
	- //					
20 dBm	D1 -22.7	760 dBm				
	1					
30 dBm —						
10 dBm	1 64		мз		14	
hunner	ويما ا	to an manual work wo	and the second s	ush of the man	with the share	mound
50 dBm —						
50 dBm						
70 dBm						
Start 2.47	GHZ		691 pts	•		Stop 2.55 GHz
arker Type Ref	Trc	X-value	Y-value	Function	Euro	tion Result
M1	1	2.48001 GHz	-2.76 dBm	Punction	Punc	Con Result
M2	1	2.4835 GHz	-44.32 dBm			
M3	1	2.5 GHz	-43.51 dBm			
M4	1	2.526464 GHz	-41.39 dBm			

Date: 17.FEB.2022 14:21:22



DH1_Ant1_Low_Hop_2402MHz

Date: 17.FEB.2022 14:29:10

DH1_Ant1_High_Hop_2480MHz

Spectrum						[₩
Ref Level Att	20.00 dBr 30 d		 RBW 100 kHz VBW 300 kHz 			
Count 300/3		B SWI 1.1 ms	SUD KHZ	Mode Auto S	oweep	
1Pk View	500					
ALK YIGH				M1[1]		-2.77 dBn
						2.478970 GH
10 dBm				M2[1]		-44.48 dBn
) dBm —	1					2.483500 GH
60,000,000	64					
10 dBm++++						
20 oBm	101					
20 aBm	01 -22.77	D dBm				
-30 dBm	_					
					Md	
-40 dBm-+	M2	man chenner the			wanter and	t the second second second
no do -	print in	and the second second	Variation and the second	and the second second	component and	www.www.www.www.
50 dBm						
60 dBm						
-70 dBm						
Start 2.47 0	GHz		691 pts	5		Stop 2.55 GHz
Start 2.47 C						
larker			Y-value	Function	Eunctio	n Result
larker Type Ref	Trc	X-value		Function	Functio	THOSE
larker Type Ref M1	1	2.47897 GHz	-2.77 dBm	Function	Functio	- Hostak
larker Type Ref				Function	Puncto	

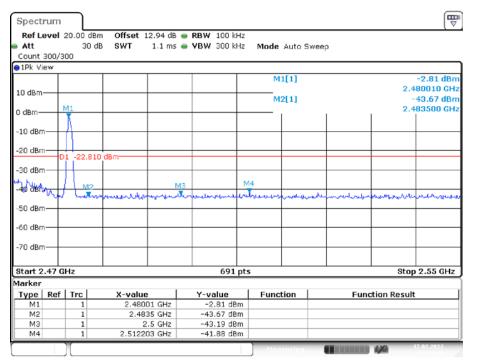
Date: 17.FEB.2022 14:32:28

Spectrum						T (
Ref Level	20.00 dBm	n Offset 12.88 dB (RBW 100 kHz			
Att	30 dE	3 SWT 246.5 µs 🤅	VBW 300 kHz	Mode Auto F	FT	
Count 300/3	300					
1Pk View						
				M1[1]		-4.49 dBr
10 dBm						2.401880 GH
				M2[1]		-48.98 dBr
						2.400000 _{(GH}
o donn						T
-10 dBm						
20 dBm						
1	01 -24.490) dBm				
30 dBm —						
40 dBm				M4		M3 M2
50 YBH	h lithin an ar f	LAND COLUMN COLOR	munmenn	hadron and he	un Alexandra ha Mar	M3 M2
SO GBIN T						
60 dBm						
70 dBm						
Start 2.3 G	17		691 pts			Stop 2.405 GHz
larker	12		091 pt3			3(0p 2.400 GHz
Type Ref	Tro	X-value	Y-value	Function	Eun	ction Result
M1	1	2.40188 GHz	-4,49 dBm	. unocion		
M2	1	2.4 GHz	-48.98 dBm			
M3	1	2.39 GHz	-49.68 dBm			
M4	1	2.3665 GHz	-46.78 dBm			
	1					17.02.2022
				, reasoning		agenti

2DH1_Ant1_Low_2402MHz

Date: 17.FEB.2022 14:22:32

2DH1_Ant1_High_2480MHz



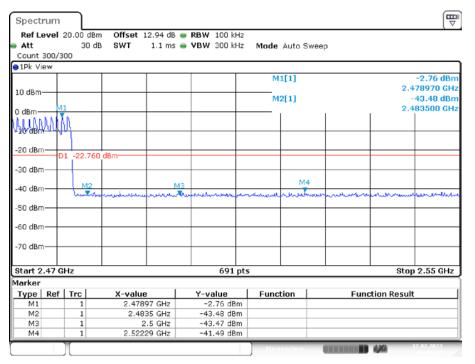
Date: 17.FEB.2022 14:24:49

Ref Lev Att	/el 2	0.00 de 30 0		8 👄 RBW 100 kHz 5 👄 VBW 300 kHz		ET	· · · · ·
Count 3	00/30		ub 3WI 2+0.5 µ:	5 - YBW 300 KH2	MODE AUTO P		
1Pk Vie	N						
					M1[1]		-6.54 dBr
LO dBm—	\perp						2.403100 GH
					M2[1]		-48.60 dBr
) dBm—	+						2.400000 GH
10 dBm-	+						
20 dBm-							l l l l l l l l l l l l l l l l l l l
20 ubiii-							
30 dBm-	-101	-26.54					
40 dBm-	+			M4			M2 M2
and carried as		and a first of	allerenewarenebynessan	mannengener	The work of a	and and see Mrs	M3 M2
SU UBIN-	1						
60 dBm-	+						
70 dBm-	+						
start 2.3	GH2	2	- I I	691 pt	s	I	Stop 2.405 GHz
larker							
Туре І	Ref	Trc	X-value	Y-value	Function	Fund	tion Result
M1		1	2.4031 GHz	-6.54 dBm			
M2		1	2.4 GHz	-48.60 dBm			
M3		1	2.39 GHz	-50.24 dBm			
M4		1	2.344435 GHz	-46.30 dBm			

2DH1_Ant1_Low_Hop_2402MHz

Date: 17.FEB.2022 14:33:00

2DH1_Ant1_High_Hop_2480MHz



Date: 17.FEB.2022 14:36:32

Spectrum						
Ref Level	20.00 dBm	n Offset 12.88 dB	RBW 100 kHz			
Att	30 dB	3 SWT 246.5µs (🗃 VBW 300 kHz	Mode Auto P	FT	
Count 300/3	00					
1Pk View						
				M1[1]		-4.42 dBr
						2.402190 GH
				M2[1]		-50.07 dBr
						2.400000 GH
						7
10 dBm						
						1 1
20 dBm —						H
	1 -24.420	dBm				
30 dBm —						
I						
40 dBm					M4	
	alada orden	man America Marton a	anna an an anna anna	AN IL ALLOWAL		M3 M2
SQ.ABW-1-	The second s	beer and a second	a contraction of the	And the Address	a state of the second second	and the state of the second
60 dBm						
70 dBm						
/ ubiii						
Start 2.3 GH	-					010.405.011-
	IZ		691 pts			Stop 2.405 GHz
larker	Tral	M unlun	Muslus I	Europhies:	L	lan Desult
larker Type Ref	Trc	X-value	Y-value	Function	Func	tion Result
larker Type Ref M1	1	2.40219 GHz	-4.42 dBm	Function	Func	tion Result
larker Type Ref M1 M2	1	2.40219 GHz 2.4 GHz	-4.42 dBm -50.07 dBm	Function	Func	tion Result
larker Type Ref M1	1	2.40219 GHz	-4.42 dBm	Function	Func	tion Result

3DH1_Ant1_Low_2402MHz

Date: 17.FEB.2022 14:26:07

3DH1_Ant1_High_2480MHz

Ref Le	vel 2	20.00 dB	m Offset 1	2.94 dB (RBW 100 kHz				
Att		30 d	B SWT	1.1 ms	VBW 300 kHz	Mode Auto S	ween		
Count 3	300/30	00							
1Pk Vie	3W								
			1			M1[1]		-	2.60 dBm
LO dBm-									0250 GH
LU UBIII-						M2[1]		-4	4.17 dBn
dBm—	1	41						2.48	3500 GH
abiii		Ň							
10 dBm	\rightarrow	4						++	
		1							
20 dBm		1 -22.60	0 dBm						
]							
30 dBm								1 1	
Jalua		M2		N.	M4				
40 680	, miles		Nonberger	handresse	mound	memoria	mon Marana de	emmennes.	monton
50 dBm									
60 dBm	+							++	
70 dBm	+							++	
Start 2.	.47 GI	Ηz			691 pts	;		Stop 2	2.55 GHz
larker									
Type	Ref	Trc	X-value		Y-value	Function	Fun	ction Result	
M1		1	2.4802		-2.60 dBm				
M2		1		35 GHz	-44.17 dBm				
M3 M4		1		.5 GHz	-44.68 dBm				
		1	2.50652	22 GH2	-41.56 dBm				

Date: 17.FEB.2022 14:28:32

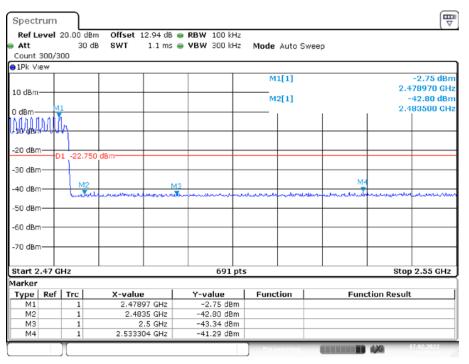
Shenzhen Accurate Technology Co., Ltd.

Ref Le	vel	20.00 dB	m Offset 13.10 de) 👄 RBW 100 kHz			· · · · · · · · · · · · · · · · · · ·
Att		30 0		VBW 300 kHz		FT	
Count	300/3	00				• •	
1Pk Vi	ew .						
					M1[1]		-4.58 dB
10 dBm·							2.402190 GH
to abili-					M2[1]		-48.01 dB
0 dBm—							2.400000 G
o abiii							
-10 dBm	+						
							P
-20 dBm							
		1 -24.58	0 dBm				
-30 dBm	+			14			
-40 dBm				V			
							M3 M2
50 dBm	m	molecper	anyou have made	the property was	where much less work	where where a start where we have a start wh	un metander will
-60 dBm	+						
-70 dBm	+						
Start 2	.3 GH	z		691 pt	s		Stop 2.405 GHz
1arker							
Туре	Ref	Trc	X-value	Y-value	Function	Func	tion Result
M1		1	2.40219 GHz	-4.58 dBm			
M2		1	2.4 GHz	-48.01 dBm			
M3		1	2.39 GHz	-47.25 dBm			
M4		1	2.338804 GHz	-39.24 dBm			

3DH1_Ant1_Low_Hop_2402MHz

Date: 17.FEB.2022 14:37:41

3DH1_Ant1_High_Hop_2480MHz



Date: 17.FEB.2022 14:40:12

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