

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	C PART 15 SUBPART C TEST REPORT	
	FCC PART 15.247	
Report Reference No FCC ID	CTA24022300401 :: 2BFCA-P185	
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Date of issue	Feb. 29, 2024	GTIN
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Applicant's name	: ShenZhen VIP Technology Co. Itd	
Address	Room 401, Building 1, Million Years Industrial Park, B Community, Fuyong, Baoan District, Shenzhen, Guar	
Test specification	TESTIN	-
•		
Standard	FCC Part 15.247	
Standard Shenzhen CTA Testing Te This publication may be repu Shenzhen CTA Testing Tech material. Shenzhen CTA Te	FCC Part 15.247 chnology Co., Ltd. All rights reserved. roduced in whole or in part for non-commercial purposes as lon chnology Co., Ltd. is acknowledged as copyright owner and sou esting Technology Co., Ltd. takes no responsibility for and will n og from the reader's interpretation of the reproduced material du	rce of the ot assume
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Shenzhen CTA Testing Technology Co., Ltd.

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TEST REPORT



Live bracket selfie stick

Model /Type P185

Listed Models CTATESTING

P20, P20S, P20S-1, P20H, P20H-1, P30, P40, P40S, P40SPRO, P40L, P40LPRO, P40S-M, P40S-F, P20D, P40D, P40DPRO, P50, P60, P60TK, P60PLUS, P65, P70, P70S, P70PLUS, P70SPLUS, P80, P81, P82, P83, P86, P87, P86T, P87T, P86TC, P87TC, P88, P88E, P88L, P89, P89E, P90, P90C, P91, P93C, P96, P97, P98, P99X, P99W, P99C, P100, P100STK, P100TK, P100RGB, P1, P2, P3, P4, P5, P6, P7, P8, P9, P02, P03, P04, P04MAX, P05, P06, P06MAX, P07, P07MAX, P08, P08C P08CPRO, P08J, P08YPRO, P09, P09C, P09CPRO, P09J, P10, P11, P12, P12S, P13, P14, P15, P16, P17, P18, P19, P110, P115, P120, P125, P130, P135, P140, P150, P155, P160, P170, P175, P180MINI, P180, P180MAX, P180TK, P185MINI, P185MAX, P185TK, P190, P195, P190TK, P195TK, P200, P205, P200TK, P205TK, P210, P215, P210TK, P215TK, P220, P220Q, P220RGB, P225, P225Q, P225RGB, P220TK, P205TK, P265TK, P265 P225TK, P230, P235, P230TK, P235TK, P250, P255, P250TK, P255TK, P260, P265, P260TK, P265TK, P270, P275, P270TK, P275TK, P280, P285, P280TK, P285TK, P290, P295, P290TK, P295TK, P300, P305, P300TK, P305TK, P310, P315, P310TK, P315TK, P320,P325, P320TK, P325TK, P330, P335, P330TK, P335TK, P340, P345, P340TK, P345TK, P350, P355, P350TK, P355TK, P360, P365, P360TK, P365TK, P370, P375 P370TK, P375TK, P380, P385, P380TK, P385TK, P380, P390, P395, P390TK, P395TK, P500, P505, P500TK, P505TK, P510, P510TK, P515TK, P520, P520TK, P525, P525TK, P530, P530TK, P535, P535TK, P540TK, P545, P545TK, P550, P550TK, P555, P555TK, P560, P560TK, P565, P560TK, P570, P570TK, P575, P575TK, P580, P580TK, P560, P560TK, P570, P570TK, P575, P575TK, P580, P560TK, P560, P560TK, P560, P560TK, P560, P560TK, P560, P560TK, P560, P560TK, P560, P560TK, P570, P570TK, P575, P575TK, P580, P560TK, P560, P560TK, P570, P570TK, P575, P575TK, P580, P560TK, P560, P560TK, P560TK, P560, P560TK, P560TK, P560, P560TK, P560TK P585, P585TK, P590, P590TK, P595, P595TK, P600, P600TK, P605, P605TK, P610, P610TK, P615, P615TK, P620, P620TK, P625, P625TK, P630, P630TK, P635, P635TK, P640, P640TK, P645, P645TK, P650, P650TK, 655, 655TK, P660, P660TK, P665 P665TK, P670, P670TK, P675, P675TK, P680, P680TK, P685, P685TK, P690, P690TK, P695, P695TK, P700, P700TK, Q01, Q02, Q03, Q04, Q05, Q06, Q07, Q08, Q09, Q10, Q11, Q12,Q13, Q14,Q15, Q16,Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49,Q50,Q51, Q52,Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100, C Light, D Light, E Light, F light, G Light, H Light, J Light, K Light, L Light, M Light, N Light, S Light, T Light, U Light, V Light, Y Light

CTATESTING Applicant

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Manufacturer ShenZhen VIP Technology Co. Itd

Address

Room 401, Building 1, Million Years Industrial Park, Baishixia Community, Fuyong, Baoan District, Shenzhen, Guangdong, China

PASS Test Result:

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TEST STANDARDS 1

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices CTATE KDB558074 D01 V05r02: Guidance for Performing Compliance Measurements on Digital Transmission

Systems (DTS) Operating Under §15.247 CTATESTING

<u>SUMMARY</u> 2

2.1 **General Remarks**

CTATES			
2.1 General Remarks		TESTIN	
Date of receipt of test sample		Feb. 23, 2024	
Testing commenced on	Co.	Feb. 23, 2024	Constant of
Testing concluded on	:	Feb. 29, 2024	

2.2 Product Description*

2.2 Product Descri	otion*	
Product Description:	Live bracket selfie stick	
Model/Type reference:	P185	
Power supply:	DC 3.7V From battery and DC 5.0V From external circuit	
Adapter information (Auxiliary test supplied by test Lab):	Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A	at
Hardware version:	V1.0	TES
Software version:	V1.0	CTA .
Testing sample ID:	CTA240223004-1# (Engineer sample) CTA240223004-2# (Normal sample)	<u>G</u>
Bluetooth BLE		
Supported type:	Bluetooth low Energy	
Modulation:	GFSK	
Operation frequency:	2402MHz to 2480MHz	
Channel number:	40	
Channel separation:	2 MHz	<u> </u>
Antenna type:	PCB antenna	TING
Antenna gain:	-0.93 dBi	

2.3 Equipment Under Test

Power supply system utilised

2.3 Equipment Unde	r Test					
Power supply system u	utilised					
Power supply voltage	:	С	230V / 50 Hz	() 120V / 60Hz	
		C	12 V DC	() 24 V DC	

DC 3.7V From battery and DC 5.0V From external circuit

2.4 Short description of the Equipment under Test (EUT)

This is a Live bracket selfie stick.

For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

The Applicant provides communication tools software(Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing. There are 40 channels provided to the EUT and Channel 00/19/39 were selected to test.

	Frequency (MHz)
Channel 00	2402
01	2404
02	2406
:	:
19	2440
ESTIN	:
37	2476
38	2478
39	2480

2.6 Block Diagram of Test Setup

EUT

DC 5.0V from adapter

Related Submittal(s) / Grant (s) 2.7

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8 **Modifications**

No modifications were implemented to meet testing criteria. GA CTATESTING

3 TEST ENVIRONMENT

Address of the test laboratory 3.1

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Radiated Emission:

Temperature:	23 ° C
	TES
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing.

•						
	Temperature:	24 ° C				
	~\G					
	Humidity:	47 %				
	.(
	Atmospheric pressure:	950-1050mbar				

	Aunospheric pressure.	930-103011bai	
С	onducted testing:	TED	TING
	Temperature:	24 ° C	TESI
	Constant of the second second		(A)
	Humidity:	46 %	
	Atmospheric pressure:	950-1050mbar]

	Test Specification clause	Test case	Test Mode	Test Channel		ecorded Report	Test result
	§15.247(e)	Power spectral density	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	complies
	§15.247(a)(2)	Spectrum bandwidth – 6 dB bandwidth	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	Lowest Middle Highest	complies
	§15.247(b)(3)	Maximum output Peak power	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	complies
CTATE	§15.247(d)	Band edge compliance conducted	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
	§15.205	Band edge compliance radiated	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
	§15.247(d)	TX spurious emissions conducted	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	complies
	§15.247(d)	TX spurious emissions radiated	BLE 1Mpbs	Lowest Middle	BLE 1Mpbs	Lowest Middle	complies
G	§15.209(a)	TX spurious Emissions radiated Below 1GHz	BLE 1Mpbs	-/-	BLE 1Mpbs	-/-	complies
	§15.107(a) §15.207	Conducted Emissions < 30 MHz	BLE 1Mpbs	ING -/-	BLE 1Mpbs	-/-	complies

3.4 Summary of measurement results

Remark:

1. The measurement uncertainty is not included in the test result.

We tested all test mode and recorded worst case in report 2.

Statement of the measurement uncertainty 3.5

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. TESTING Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

u	le best measurement capability for	Shenzhen CTA Testing T	echnology Co., Ll	.a
	Test	Range	Measurement Uncertainty	Notes
	Radiated Emission	9KHz~30MHz	3.02 dB	(1)
	Radiated Emission	30~1000MHz	4.06 dB	(1)
	Radiated Emission	1~18GHz	5.14 dB 🔪	(1)
	Radiated Emission	18-40GHz	5.38 dB	(1)
	Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
	Output Peak power	30MHz~18GHz	0.55 dB	(1)
P	Power spectral density	S	0.57 dB	(1)
	Spectrum bandwidth		1.1%	(1)
	Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
	Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
	Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

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

3.6	Equipments Used during the Test	

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibra Due D
LISN	R&S	ENV216	CTA-308	2023/08/02	2024/0
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/0
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/0
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/0
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/0
Spectrum Analyzer	R&S	FSP C	CTA-337	2023/08/02	2024/0
Vector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/0
Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/0
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2023/08/02	2024/0
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/0
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/1
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/1
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/1
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/0
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/0
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/0
Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/0
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/0
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/0
Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/0
Power Sensor	G Agilent	U2021XA	CTA-405	2023/08/02	2024/0
Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/0
C.	CIA C	TATES	C CTP	TESTING	



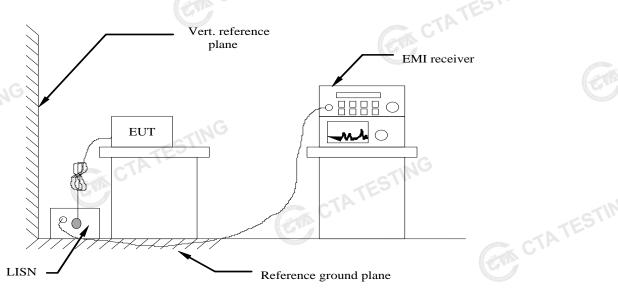
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	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date	
	EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A	
	EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A	
	RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A	
	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A	TAT
	TING		·			Gan	•
CTATE		CTATESTING					
Ĩ		CTATES					

TEST CONDITIONS AND RESULTS 4

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.

2 Support equipment, if needed, was placed as per ANSI C63.10-2013

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

	Limit (dBuV)					
Frequency range (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				

Decreases with the logarithm of the frequency.

TEST RESULTS

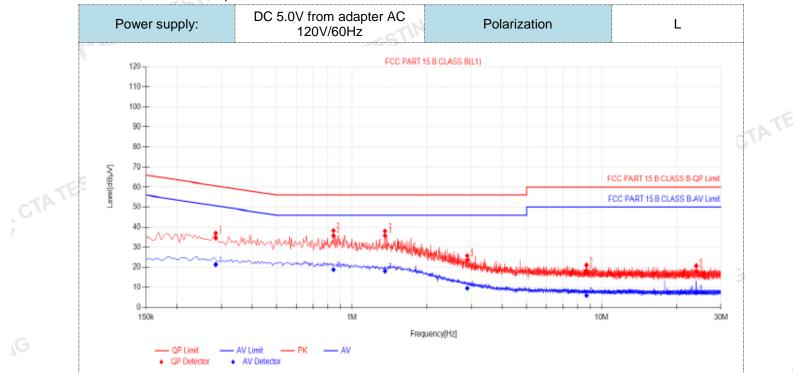
Remark:

1. BLE 1Mpbs was tested at Low, Middle, and High channel; only the worst result of BLE 1Mpbs High channel was reported as below:

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CTA TESTING

2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



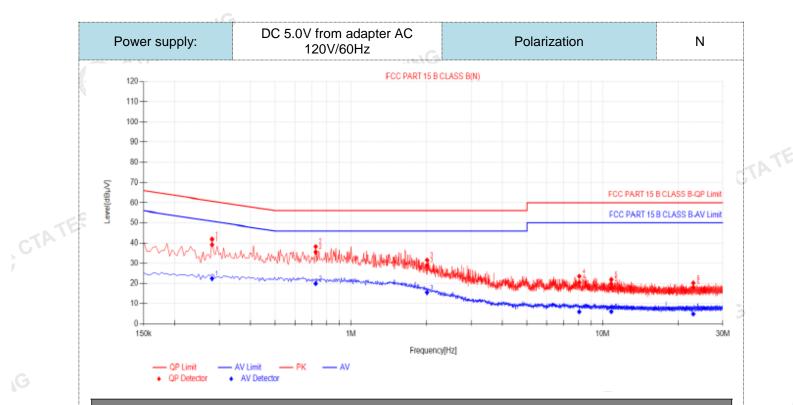
Final Data

1 IIIG	i Data Els	~										
NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	
1	0.285	9.95	24.75	34.70	60.67	25.97	11.43	21.38	50.67	29.29	PASS	
2	0.843	10.00	25.70	35.70	56.00	20.30	8.86	18.86	46.00	27.14	PASS	
3	1.3605	9.90	25.87	35.77	56.00	20.23	8.17	18.07	46.00	27.93	PASS	
4	2.895	10.03	13.57	23.60	56.00	32.40	-0.56	9.47	46.00	36.53	PASS	-
5	8.682	10.27	8.01	18.28	60.00	41.72	-4.30	5.97	50.00	44.03	PASS	- A>-
6	23.8695	10.49	7.48	17.97	60.00	42.03	-3.09	7.40	50.00	42.60	PASS	- Y
Note:1	.QP Value	e (dBuV)	= QP Re	adina (dl	- BuV)+ Fa	actor (dB				•		

Note:1).QP Value ($dB\mu V$)= QP Reading ($dB\mu V$)+ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dBµV) QP Value (dBµV)
- CIA TE CINC 4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V)

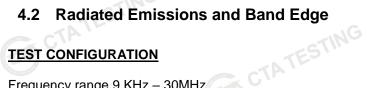
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Final Data List

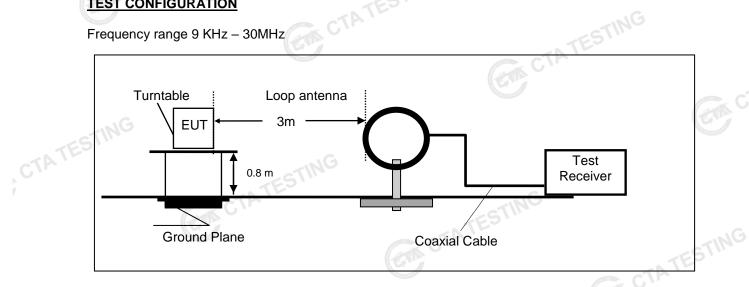
	1 1110														
	NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict			
(-1	1	0.2805	9.92	29.29	39.21	60.80	21.59	12.48	22.40	50.80	28.40	PASS			
	2	0.726	10.08	25.46	35.54	56.00	20.46	9.92	20.00	46.00	26.00	PASS			
	3	2.0085	10.19	18.70	28.89	56.00	27.11	5.32	15.51	46.00	30.49	PASS			
	4	8.061	10.42	10.16	20.58	60.00	39.42	-4.39	6.03	50.00	43.97	PASS			
	5	10.833	10.40	9.38	19.78	60.00	40.22	-4.28	6.12	50.00	43.88	PASS			
	6	22.965	10.65	7.48	18.13	60.00	41.87	-5.74	4.91	50.00	45.09	PASS			
Ν	lote:1)	.QP Value	e (dBµV)	= QP Rea	ading (dl	3μV)+ Fa	actor (dB	5)					dvr		
	2).	Factor (dl	B)=inser	tion loss	of LISN ((dB) + Ca	able loss	(dB)							
	2)	ODMorair	h(dR) = 0	D L imit				n in the second s							

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
 - 3). $QPMargin(dB) = QP Limit (dB\mu V) QP Value (dB\mu V)$
 - 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V) CTATESTING

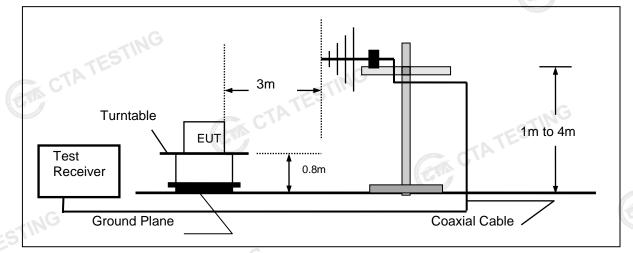


TEST CONFIGURATION

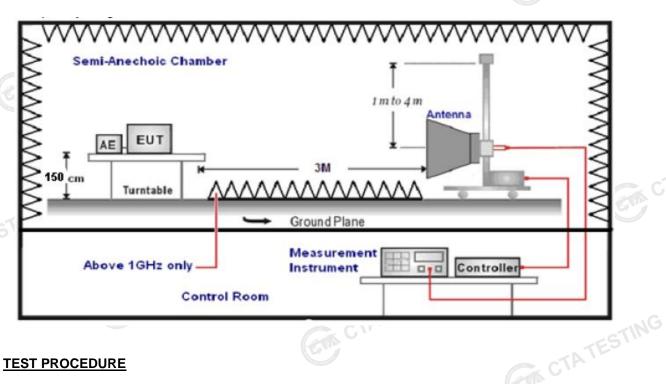
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and
- rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- And also, each emission was to be maximized by changing the polarization of receiving 3. antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz. The distance between test antenna and EUT as following table states: 6.

•	The distance between test a	ancenna and LOT as following labi		
	Test Frequency range	Test Antenna Type	Test Distance	
	9KHz-30MHz	Active Loop Antenna	3	C
	30MHz-1GHz	Ultra-Broadband Antenna	3	
	1GHz-18GHz	Double Ridged Horn Antenna	3	A STATE OF STATE
	18GHz-25GHz	Horn Anternna	1	
	Sotting test receiver/spectru	im as following table states:		

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

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

FS = RA + AF + CL - AG

RA + AF + CL - AG	
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	5
Shenzhen CTA Testin	a Technoloay Co., Ltd.

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

	photos.			
CTATE	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
<i>v</i>	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
	1.705-30	3	20log(30)+ 40log(30/3)	30
	30-88	3	40.0	100
	88-216	3	43.5	150
-	216-960	3	46.0	200
	Above 960	3	54.0	G 500

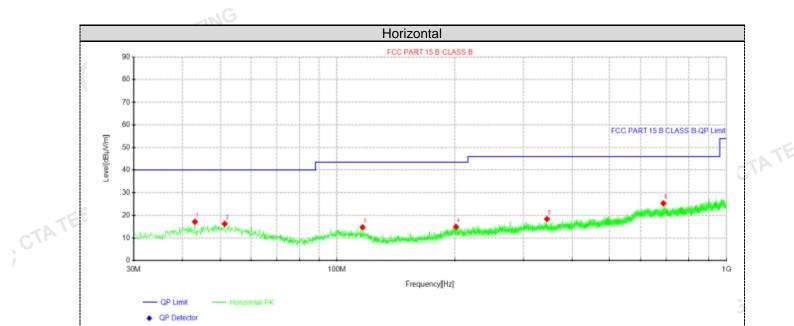
TEST RESULTS

Remark:

- 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. BLE 1Mpbs were tested at Low, Middle, and High channel and recorded worst mode at BLE 1Mpbs.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found 3. GA CTATESTING except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

GTATE



and all Date 1 in

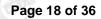
CTATESTING

- 1	Suspe	ected Data	LIST							
	NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polority
		[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	43.095	29.02	17.10	-11.92	40.00	22.90	100	279	Horizontal
	2	51.34	27.74	16.16	-11.58	40.00	23.84	100	50	Horizontal
	3	116.208	28.72	14.63	-14.09	43.50	28.87	100	0	Horizontal
	4	201.205	28.09	14.85	-13.24	43.50	28.65	100	62	Horizontal
2	5	345.371	29.60	18.30	-11.30	46.00	27.70	100	40	Horizontal
	6	687.538	30.58	25.34	-5.24	46.00	20.66	100	233	Horizontal

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

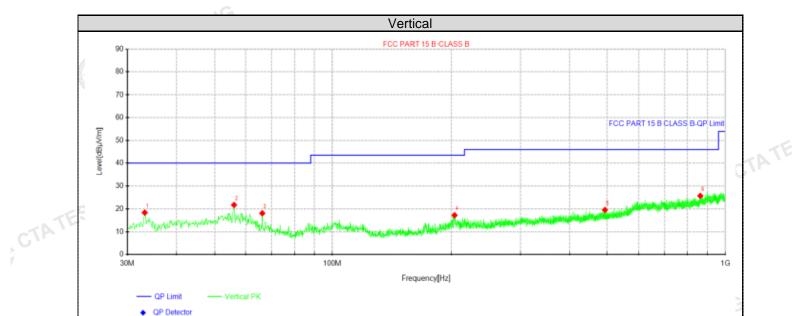
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)



TATE

CTA



CTATESTING

Susp	ected Data	List							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Tolarity
1	33.1525	32.52	18.32	-14.20	40.00	21.68	100	23	Vertical
2	56.0688	33.91	21.70	-12.21	40.00	18.30	100	360	Vertical
3	66.2538	32.47	18.03	-14.44	40.00	21.97	100	81	Vertical
4	203.751	30.41	17.16	-13.25	43.50	26.34	100	105	Vertical
5	493.053	28.97	19.49	-9.48	46.00	26.51	100	259	Vertical
6	861.896	29.08	25.73	-3.35	46.00	20.27	100	340	Vertical

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

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For 1GHz to 25GHz

		NG		GFSK (abo	ve 1GHz)				
Freque	ncy(MHz)	:	24	2402 Polarity:			ł	HORIZONT	AL .
Frequency (MHz)	Le	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	62.77	PK	74	11.23	67.04	32.33	5.12	41.72	-4.27
4804.00	45.16	AV	54	8.84	49.43	32.33	5.12	41.72	-4.27
7206.00	53.32	PK	74	20.68	53.84	36.6	6.49	43.61	-0.52
7206.00	43.10	AV	54	10.90	43.62	36.6	6.49	43.61	-0.52
			•	·	•				Carlo V
Freque	ncy(MHz)):	24	02	Pola	arity:		VERTICAL	-

Freque	Frequency(MHz):		24	02	Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	61.14	PK	74	12.86	65.41	32.33	5.12	41.72	-4.27
4804.00	43.31	AV	54	10.69	47.58	32.33	5.12	41.72	-4.27
7206.00	50.63	PK	74	23.37	51.15	36.6	6.49	43.61	-0.52
7206.00	41.45	AV	54	12.55	41.97	36.6	6.49	43.61	-0.52
				C.	1			TE	

Freque	ncy(MHz)	:	24	40	Pola	arity:	H	IORIZONT	AL.
Frequency (MHz)	Emis Lev (dBu)	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	61.96	PK	74	12.04	65.84	32.6	5.34	41.82	-3.88
4880.00	44.44	AV	54	9.56	48.32	32.6	5.34	41.82	-3.88
7320.00	54.00	PK	74	20.00	54.11	36.8	6.81	43.72	-0.11
7320.00	42.72	AV	54	11.28	42.83	36.8	6.81	43.72	-0.11
CIA'					G	•			

Frequency (MHz) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Value (dB) Factor (dB/m) Factor (dB) amplifier (dB) Factor (dB) 4880.00 60.09 PK 74 13.91 63.97 32.6 5.34 41.82 -3.88 4880.00 42.72 AV 54 11.28 46.60 32.6 5.34 41.82 -3.88 7320.00 52.03 PK 74 21.97 52.14 36.8 6.81 43.72 -0.11										
Frequency (MHz) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Nature (dB) Attention of the value (dBuV) Factor (dB/m) Factor (dB) Factor (dB) amplifier (dB) Factor (dB) 4880.00 60.09 PK 74 13.91 63.97 32.6 5.34 41.82 -3.88 4880.00 42.72 AV 54 11.28 46.60 32.6 5.34 41.82 -3.88 7320.00 52.03 PK 74 21.97 52.14 36.8 6.81 43.72 -0.11	Freque	Frequency(MHz):		24	2440		Polarity:		VERTICAL	
4880.00 42.72 AV 54 11.28 46.60 32.6 5.34 41.82 -3.88 7320.00 52.03 PK 74 21.97 52.14 36.8 6.81 43.72 -0.11		Le	vel			Value	Factor	Factor	amplifier	Correction Factor (dB/m)
7320.00 52.03 PK 74 21.97 52.14 36.8 6.81 43.72 -0.11	4880.00	60.09	PK	74	13.91	63.97	32.6	5.34	41.82	-3.88
	4880.00	42.72	AV	54	11.28	46.60	32.6	5.34	41.82	-3.88
7320.00 41.74 AV 54 12.26 41.85 36.8 6.81 43.72 -0.11	7320.00	52.03	PK	74	21.97	52.14	36.8	6.81	43.72	-0.11
STIN	7320.00	41.74	AV	54	12.26	41.85	36.8	6.81	43.72	-0.11
				STIN						

Freque	ncy(MHz)):	24	80	Polarity:		HORIZONTAL		NL
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	61.46	PK	74	12.54	64.54	32.73	5.66	41.47	-3.08
4960.00	45.64	AV	54	8.36	48.72	32.73	5.66	41.47	-3.08
7440.00	53.74	PK	74	20.26	53.29	37.04	7.25	43.84	0.45
7440.00	43.28	PK	54	10.72	42.83	37.04	7.25	43.84	0.45

Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	-
Frequency (MHz)	Emis Lev (dBu)		Limit (dBuV/m)	Margin (dB)	G Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	59.29	PK	74	14.71	62.37	32.73	5.66	41.47	-3.08
4960.00	43.98	AV	54	10.02	47.06	32.73	5.66	41.47	-3.08
7440.00	51.95	PK	74	22.05	51.50	37.04	7.25	43.84	0.45
7440.00	40.56	PK	54	13.44	40.11	37.04	7.25	43.84	0.45
REMARKS	:		· · ·			Contraction of the second			CTP
			Shenzhen	CTA Testing	Technology	Co., Ltd.			

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

Freque	ency(MHz)	:	24	GFS 02		arity:	Н	ORIZONTA	AL.
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	62.34	PK	74	11.66	72.76	27.42	4.31	42.15	-10.42
2390.00	43.70	AV	54	10.30	54.12	27.42	4.31	42.15	-10.42
Freque	ency(MHz)	:	2402		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	60.10	PK	74	13.90	70.52	27.42	4.31	42.15	-10.42
2390.00	42.08	AV	54	11.92	52.50	27.42	4.31	42.15	-10.42
Freque	ency(MHz)	:	24	80	Pola	arity:	HORIZONTAL		AL.
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
	61.98	ΡK	74	12.02	72.09	27.7	4.47	42.28	-10.11
2483.50	01.90			10.43	53.68	27.7	4.47	42.28	-10.11
2483.50 2483.50	43.57	AV	54	10.45	55.00				
2483.50			54 24			arity:		VERTICAL	
2483.50	43.57	: sion vel	I			Antenna Factor (dB/m)	Cable Factor (dB)	VERTICAL Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50 Freque	43.57 ency(MHz) Emis Lev	: sion vel	24 Limit	80 Margin	Pola Raw Value	Antenna Factor	Factor	Pre- amplifier	Correction Factor

4. -- Mean the PK detector measured value is below average limit.

5. The other emission levels were very low against the limit.

Maximum Peak Output Power 4.3

Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

Channel	Output power (dBm)	Limit (dBm)	Result
00	5.40		
19	5.30	30.00	Pass
39	5.14		
	00 19 39	Channel (dBm) 00 5.40 19 5.30 39 5.14	Channel (dBm) Limit (dBm) 00 5.40

4.4 **Power Spectral Density**

Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW \geq 3 kHz.
- 3. Set the VBW \geq 3× RBW.
- CTATESTING 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum power level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8dBm.

Test Configuration

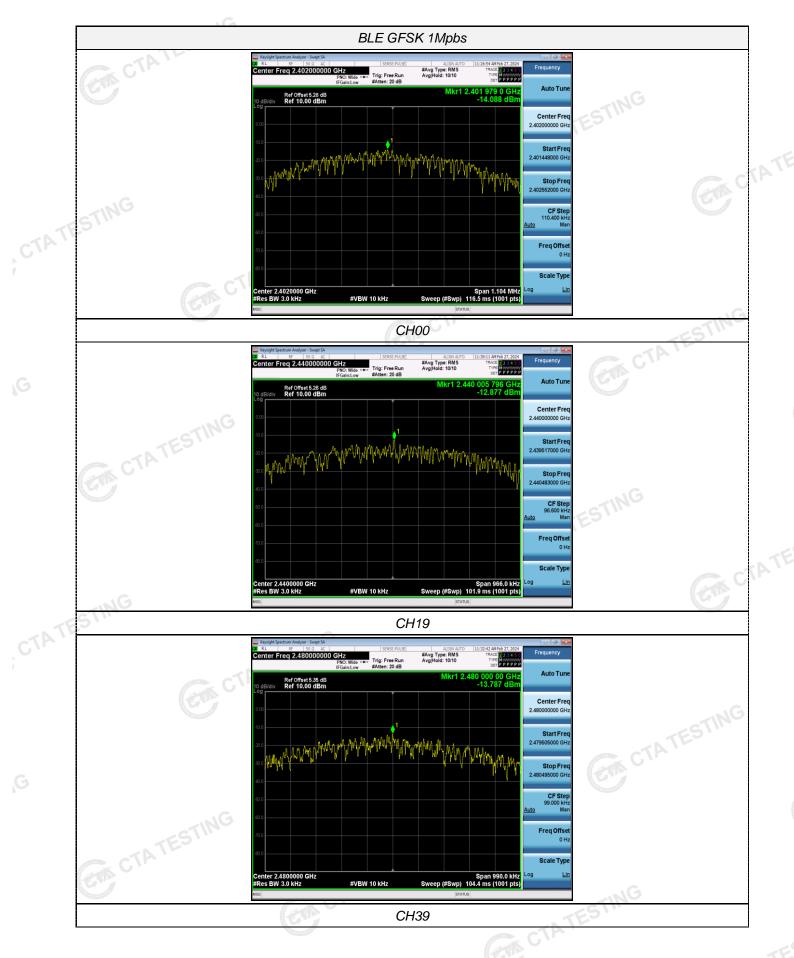


Test Results

_		Power Spectral Density		
Туре	Channel	(dBm/3KHz)	Limit (dBm/3KHz)	Result
	00	G -14.09		
GFSK 1Mbps	19_51	-12.88	8.00	Pass
	39	-13.79	. G	



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4.5 6dB Bandwidth

Limit

ESTING For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Test Results		ANALYZ	FR	CTATESTING
Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
GTIME	00	0.736		
GFSK 1Mbps	19	0.644	≥500	Pass
CIL	39	0.660		
Test plot as follows:	Can C	TATES	CTA TESTIN	G

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Out-of-band Emissions 4.6

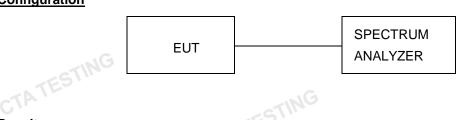
Limit

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, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are GTA CTATESTING made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



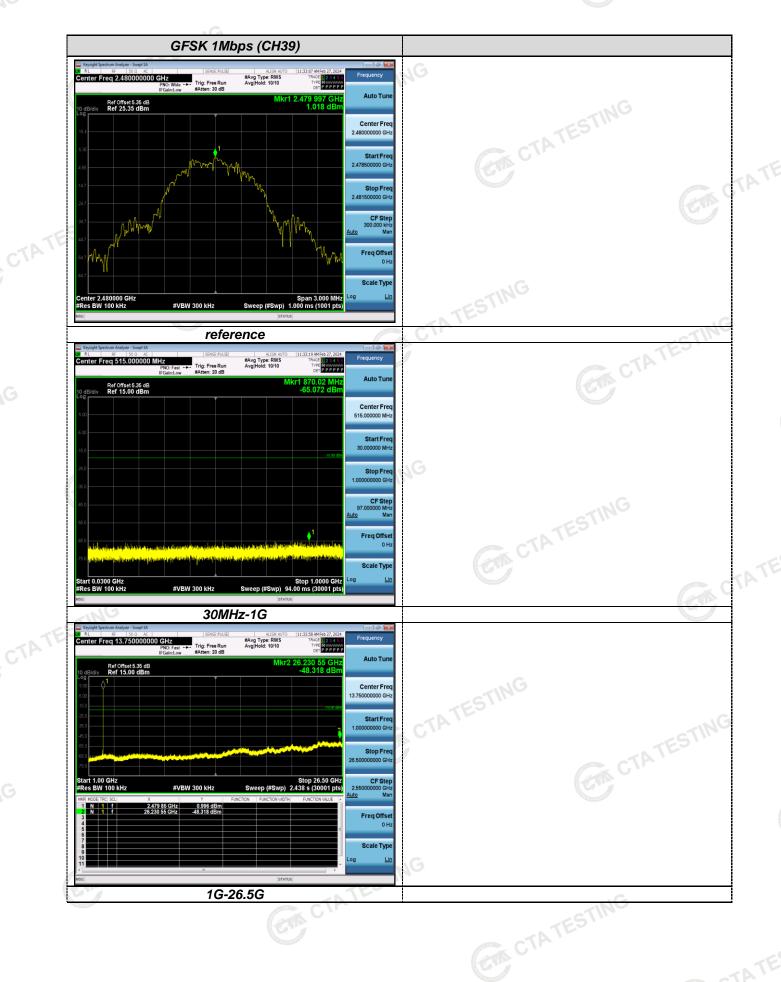
Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage **GIA CTATE** measurement data.

Test plot as follows:

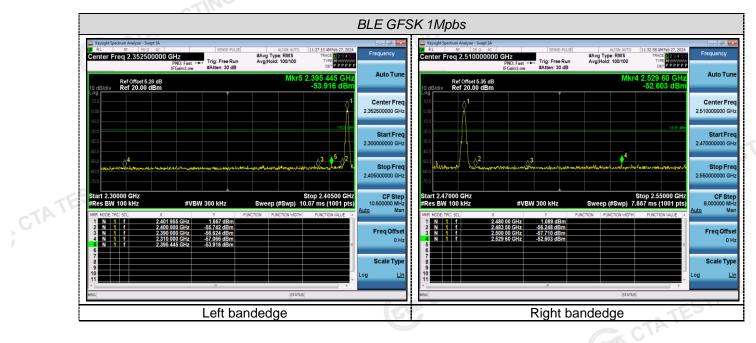
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Band-edge Measurements for RF Conducted Emissions:



4.7 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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, 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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

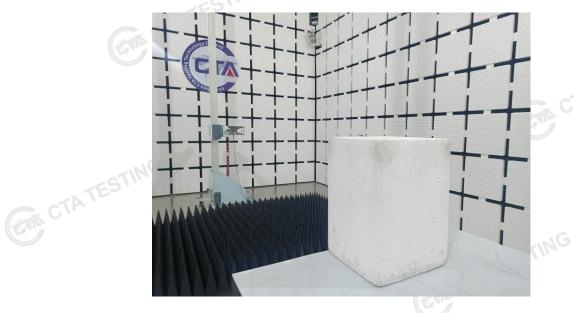
The gain of antenna was -0.93 dBi.

Remark:The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility.

5 Test Setup Photos of the EUT







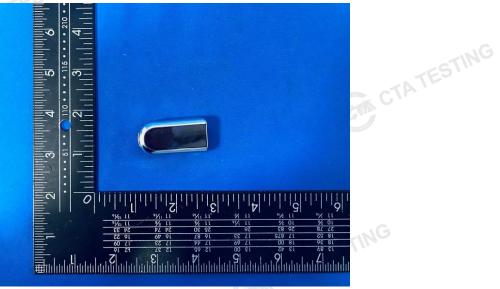
CTA TESTIN

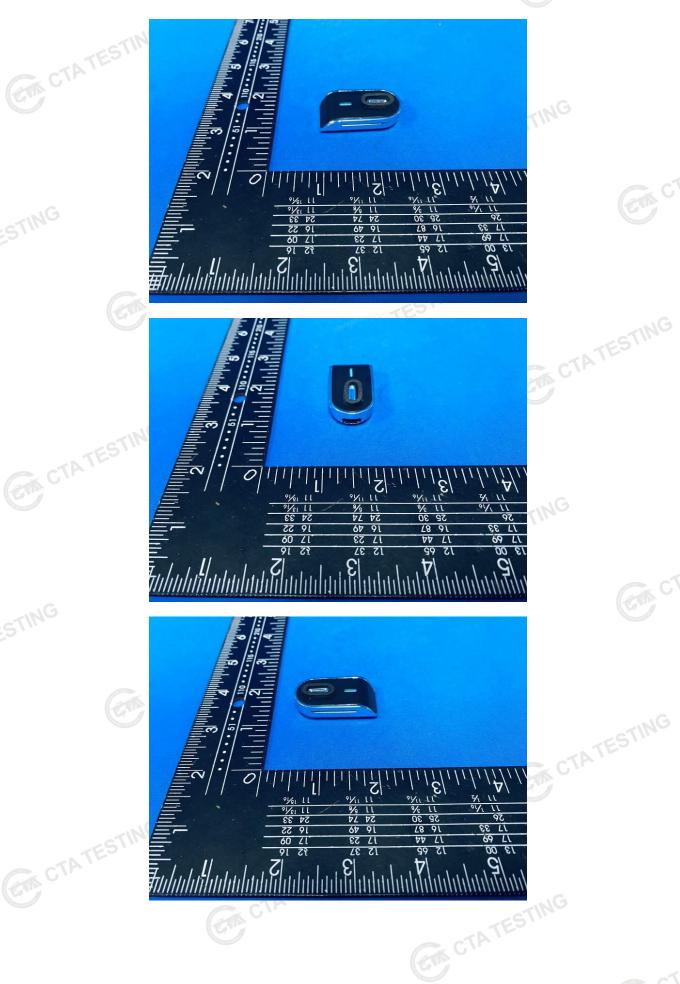
CTA TESTIN

6 Photos of the EUT

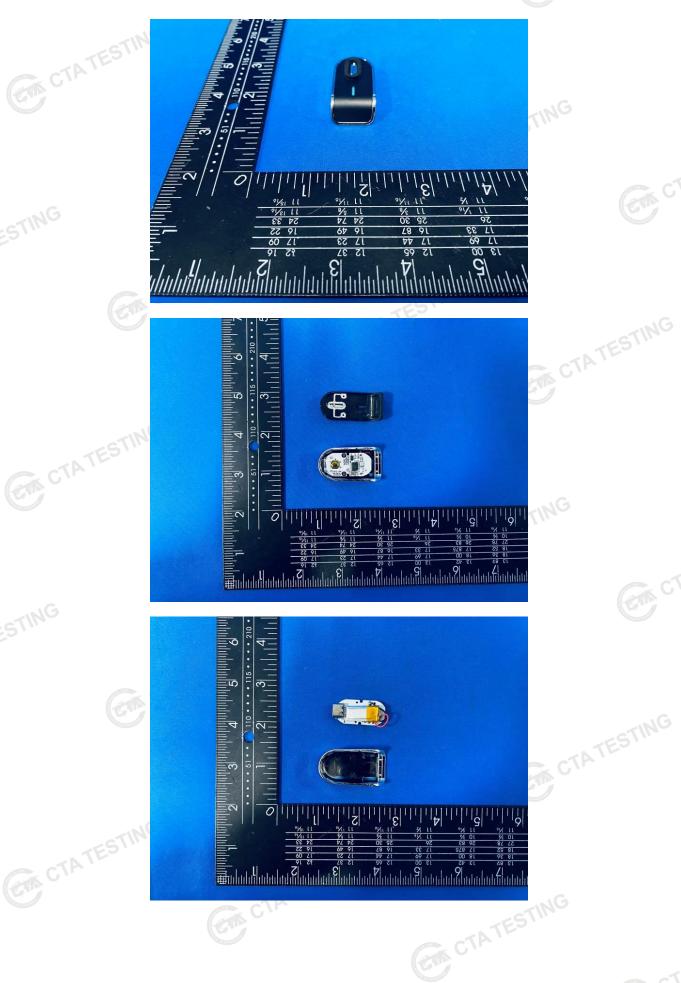




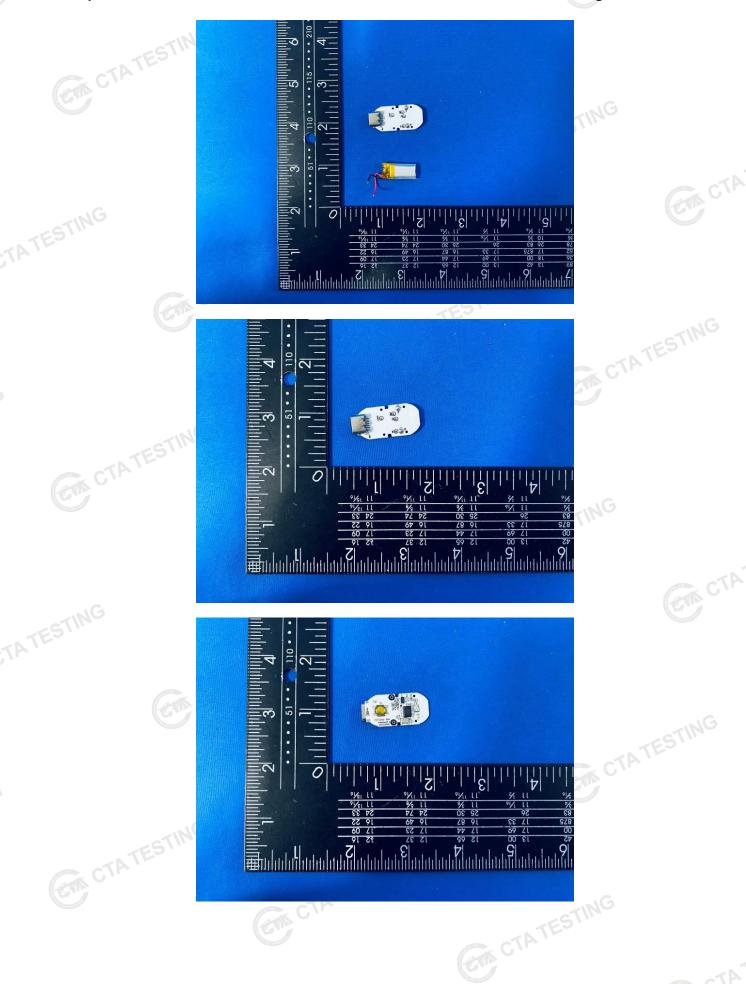




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