

Shenzhen CTA Testing Technology Co., Ltd.

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

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No. CTA25031300501 FCC ID. : 2ASC2-NT680PLUS

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Date of issue: Mar. 21, 2025

Testing Laboratory Name.....Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name........................ Shenzhen Foxwell Technology Co., Ltd.

5/F, Plant C, Baocheng 71st Zone, Xin'an Street, Baoan District,

Shenzhen, China

Test specification....:

Standard.....FCC Part 15.247

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Equipment description All-System & All-make Scanner with Special Functions

Trade Mark.....: N/A

Manufacturer Shenzhen Foxwell Technology Co., Ltd.

Model/Type reference NT680plus

Listed ModelsNT680, NT680 Pro, NT680Elite, NT650Elite

Modulation: GFSK

Frequency From 2402MHz to 2480MHz

Ratings Input: 8-18V ===2.0A or Type-C 5V ===2.0A

Result: PASS

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TEST REPORT

All-System & All-make Scanner with Special Functions Equipment under Test

NT680plus Model /Type

Listed Models NT680, NT680 Pro, NT680Elite, NT650Elite

Model difference The PCB board, circuit, structure and internal of these models are the

same, Only model number and colour is different for these model.

Shenzhen Foxwell Technology Co., Ltd. **Applicant**

5/F, Plant C, Baocheng 71st Zone, Xin'an Street, Baoan District, Shenzhen, China Address

Shenzhen Foxwell Technology Co., Ltd. Manufacturer

Address 5/F, Plant C, Baocheng 71st Zone, Xin'an Street, Baoan District,

Shenzhen, China

CTATE		TESTING		
	Test Result:	PASS	ICO. Ltd	

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

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SUMMARY

General Remarks

2.1 General Remarks			
Date of receipt of test sample		Mar. 13, 2025	ESTING
Testing commenced on		Mar. 13, 2025	CTATL
Testing concluded on	:	Mar. 21, 2025	

2.2 Product Description*

Product Description:	All-System & All-make Scanner with Special Functions
Model/Type reference:	NT680plus
Power supply:	Input: 8-18V ===2.0A or Type-C 5V ===2.0A
Testing sample ID:	CTA250313005 -1# (Engineer sample) CTA250313005 -2# (Normal sample)
Hardware version:	NT680plus
Software version:	V1.0
Bluetooth BLE	7.20
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PCB antenna
Antenna gain:	nder Test m utilised

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	() 120V / 60Hz	
TING		0	12 V DC		24 V DC	
			Other (specified in blank	k belov	v)	

Short description of the Equipment under Test (EUT)

This is an All-System & All-make Scanner with Special Functions. For more details, refer to the user's manual of the EUT.

2.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer

\bigcirc - supplied by the lab	10.	G
○ Adapter	STIN	Model: EP-TA20CBC
97	ATES	Input: AC 100-240V 50/60Hz
Course	C	Output: DC 5V 2A

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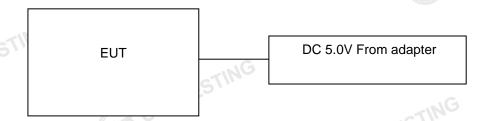
2.6 EUT operation mode

The Applicant provides communication tools software(AT command) 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.

Operation Frequency:

00 01	ency (MHz) 2402 2404 2406
01	2404
02	2406
	:
LII.	
19	2440
TESTIN	:
37	2476
38	2478
39	2480
2.7 Block Diagram of Test Setup	CTA TESTIN

Block Diagram of Test Setup



Related Submittal(s) / Grant (s) 2.8

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

2.9 **Modifications**

No modifications were implemented to meet testing criteria. CTA TESTING Report No.: CTA25031300501 Page 7 of 35

TEST ENVIRONMENT

Address of the test laboratory

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:

tadiatea Efficient.	· C
Temperature:	23 ° C
WAS TO SEE THE SECOND OF THE S	TES
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
NG	
Humidity:	47 %
. (
Atmospheric pressure:	950-1050mbar

	Authospheric pressure.	330 T030111bai	J
С	onducted testing:	TEST	TING
	Temperature:	24 ° C	TES!
	Was a supply	110	(A)
	Humidity:	46 %	
	•		
	Atmospheric pressure:	950-1050mbar	

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Summary of measurement results

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
§15.247(d)	Band edge compliance conducted	BLE 1Mpbs	☑ Lowest☑ Highest	BLE 1Mpbs	☑ Lowest☑ Highest	complies
§15.205	Band edge compliance radiated	BLE 1Mpbs		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✓ Highest	BLE 1Mpbs	☑ Lowest☑ Middle☑ Highest	complies
§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	1NG -/-	BLE 1Mpbs	-/-	complies

Remark:

- The measurement uncertainty is not included in the test result.
- We tested all test mode and recorded worst case in report

Statement of the measurement uncertainty

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. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

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)
Power spectral density	-ING/	0.57 dB	(1)
Spectrum bandwidth	-25 /	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)

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(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

LISN							
LISN R&S ENV216 CTA-314 2024/08/03 2025/08/03 EMI Test Receiver R&S ESPI CTA-307 2024/08/03 2025/08/03 EMI Test Receiver R&S ESCI CTA-306 2024/08/03 2025/08/03 Spectrum Analyzer Agilent N9020A CTA-301 2024/08/03 2025/08/03 Spectrum Analyzer R&S FSU CTA-337 2024/08/03 2025/08/03 Vector Signal generator Agilent N5182A CTA-305 2024/08/03 2025/08/03 Analog Signal Generator R&S SML03 CTA-304 2024/08/03 2025/08/03 WIDEBAND RADIO COMMUNICATION TESTER CMW500 R&S CTA-302 2024/08/03 2025/08/03 Temperature and humidity meter Chigo ZG-7020 CTA-326 2024/08/03 2025/08/03 Ultra-Broadband Antenna Schwarzbeck VULB9163 CTA-310 2023/10/17 2026/10/0 Horn Antenna Schwarzbeck BBHA 9120D CTA-309 2023/10/17 2026/10/0		Test Equipment	Manufacturer	Model No.	• •		Calibration Due Date
EMI Test Receiver R&S ESPI CTA-307 2024/08/03 2025/08/ EMI Test Receiver R&S ESCI CTA-306 2024/08/03 2025/08/ Spectrum Analyzer Agilent N9020A CTA-301 2024/08/03 2025/08/ Spectrum Analyzer R&S FSU CTA-337 2024/08/03 2025/08/ Vector Signal generator Agilent N5182A CTA-305 2024/08/03 2025/08/ Analog Signal Generator R&S SML03 CTA-304 2024/08/03 2025/08/ WIDEBAND RADIO COMMUNICATION TESTER CMW500 R&S CTA-302 2024/08/03 2025/08/ Temperature and humidity meter Chigo ZG-7020 CTA-326 2024/08/03 2025/08/ Ultra-Broadband Antenna Schwarzbeck VULB9163 CTA-310 2023/10/17 2026/10/ Horn Antenna Schwarzbeck BBHA 9120D CTA-309 2023/10/17 2026/10/ Loop Antenna Zhinan ZN30900C CTA-311 2023/10/17 2026/10/		LISN	R&S	ENV216	CTA-308	2024/08/03	2025/08/02
EMI Test Receiver R&S ESCI CTA-306 2024/08/03 2025/08/03 Spectrum Analyzer Agilent N9020A CTA-301 2024/08/03 2025/08/03 Spectrum Analyzer R&S FSU CTA-337 2024/08/03 2025/08/03 Vector Signal generator Agilent N5182A CTA-305 2024/08/03 2025/08/03 Analog Signal Generator R&S SML03 CTA-304 2024/08/03 2025/08/03 WIDEBAND RADIO COMMUNICATION TESTER CMW500 R&S CTA-302 2024/08/03 2025/08/03 Temperature and humidity meter Chigo ZG-7020 CTA-326 2024/08/03 2025/08/03 Ultra-Broadband Antenna Schwarzbeck VULB9163 CTA-310 2023/10/17 2026/10/08/03 Hom Antenna Schwarzbeck BBHA 9120D CTA-309 2023/10/13 2026/10/0 Loop Antenna Zhinan ZN30900C CTA-311 2023/10/17 2026/10/0 Broadband Horn Antenna A-INFOMW LB-180500H-2.4F CTA-312 2024/08/03		LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02
Spectrum Analyzer		EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
Spectrum Analyzer		EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02
Vector Signal generator Agilent N5182A CTA-305 2024/08/03 2025/08/03 Analog Signal Generator R&S SML03 CTA-304 2024/08/03 2025/08/03 WIDEBAND RADIO COMMUNICATION TESTER CMW500 R&S CTA-302 2024/08/03 2025/08/03 Temperature and humidity meter Chigo ZG-7020 CTA-326 2024/08/03 2025/08/03 Ultra-Broadband Antenna Schwarzbeck VULB9163 CTA-310 2023/10/17 2026/10/0 Horn Antenna Schwarzbeck BBHA 9120D CTA-309 2023/10/13 2026/10/0 Loop Antenna Zhinan ZN30900C CTA-311 2023/10/17 2026/10/0 Broadband Horn Antenna A-INFOMW LB-180500H-2.4F CTA-336 2023/09/13 2026/09/0 Amplifier Schwarzbeck BBV 9745 CTA-312 2024/08/03 2025/08/0 Amplifier Taiwan chengyi EMC051845B CTA-313 2024/08/03 2025/08/0 Directional coupler NARDA 4226-10 CTA-303 2024/08/03	CTA	Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02
Agrient Agrient NS182A CTA-303 2024/08/03 2025/08/08/18		Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02
CTA-304 2024/08/03 2025/08/05/05/05/05/05/05/05/05/05/05/05/05/05/			Agilent	N5182A	CTA-305	2024/08/03	2025/08/02
COMMUNICATION TESTER CMW500 R&S CTA-302 2024/08/03 2025/08/05/08/05/08/05/08/05/08/05 Temperature and humidity meter Chigo ZG-7020 CTA-326 2024/08/03 2025/08/05/08/05/08/05/08/05/08/05 Ultra-Broadband Antenna Schwarzbeck VULB9163 CTA-310 2023/10/17 2026/10/05/05/05/05/05/05/05/05/05/05/05/05/05			R&S	SML03	CTA-304	2024/08/03	2025/08/02
humidity meter Crigo ZG-7020 CTA-326 2024/08/03 2025/08/05/05/05/05/05/05/05/05/05/05/05/05/05/		COMMUNICATION	CMW500	R&S	CTA-302	2024/08/03	2025/08/02
Antenna Schwarzbeck VOLB9163 CTA-310 2023/10/17 2026/10/20 Horn Antenna Schwarzbeck BBHA 9120D CTA-309 2023/10/13 2026/10/20 Loop Antenna Zhinan ZN30900C CTA-311 2023/10/17 2026/10/20 Broadband Horn Antenna A-INFOMW LB-180500H-2.4F CTA-336 2023/09/13 2026/09/20 Amplifier Schwarzbeck BBV 9745 CTA-312 2024/08/03 2025/08/20 Amplifier Taiwan chengyi EMC051845B CTA-313 2024/08/03 2025/08/20 Directional coupler NARDA 4226-10 CTA-303 2024/08/03 2025/08/20 High-Pass Filter XingBo XBLBQ-GTA18 CTA-402 2024/08/03 2025/08/20 Automated filter XingBo XBLBQ-GTA27 CTA-403 2024/08/03 2025/08/20		humidity meter Chigo		ZG-7020	CTA-326	2024/08/03	2025/08/02
Loop Antenna Zhinan ZN30900C CTA-311 2023/10/17 2026/10/20/20/20/20/20/20/20/20/20/20/20/20/20			Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
Broadband Horn Antenna A-INFOMW LB-180500H-2.4F CTA-336 2023/09/13 2026/09/20/20/20/20/20/20/20/20/20/20/20/20/20/		Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
Antenna A-INFOMW LB-180500H-2.4F CTA-336 2023/09/13 2026/09/09/13 Amplifier Schwarzbeck BBV 9745 CTA-312 2024/08/03 2025/08/05/08/05/08/05 Amplifier Taiwan chengyi EMC051845B CTA-313 2024/08/03 2025/08/05/08/05/08/05 Directional coupler NARDA 4226-10 CTA-303 2024/08/03 2025/08/05/08/05/08/05 High-Pass Filter XingBo XBLBQ-GTA18 CTA-402 2024/08/03 2025/08/05/08/05/08/05/08/05/08/05 Automated filter Automated filter CTA-403 2024/08/03 2025/08/05/08/		Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
Amplifier Taiwan chengyi EMC051845B CTA-313 2024/08/03 2025/08/05 Directional coupler NARDA 4226-10 CTA-303 2024/08/03 2025/08/05 High-Pass Filter XingBo XBLBQ-GTA18 CTA-402 2024/08/03 2025/08/05 Automated filter Automated filter Automated filter CTA-403 2024/08/03 2025/08/05			A-INFOMW	LB-180500H-2.4F	CTA-336	2023/09/13	2026/09/12
Directional coupler NARDA 4226-10 CTA-303 2024/08/03 2025/08/05/08/05 High-Pass Filter XingBo XBLBQ-GTA18 CTA-402 2024/08/03 2025/08/05/08/05 High-Pass Filter XingBo XBLBQ-GTA27 CTA-403 2024/08/03 2025/08/05/08/05 Automated filter Automated filter XBLBQ-GTA27 CTA-403 2024/08/03 2025/08/05/08/05/08/05		Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
High-Pass Filter XingBo XBLBQ-GTA18 CTA-402 2024/08/03 2025/08/05/08/05 High-Pass Filter XingBo XBLBQ-GTA27 CTA-403 2024/08/03 2025/08/05/05/05/05/05/05/05/05/05/05/05/05/05/		Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
High-Pass Filter XingBo XBLBQ-GTA27 CTA-403 2024/08/03 2025/08/		Directional coupler	NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
Automated filter		High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
Automated filter	CTATE	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
bank Tonscend JS0806-F CTA-404 2024/08/03 2025/08/		Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/03	2025/08/02
Power Sensor Agilent U2021XA CTA-405 2024/08/03 2025/08/		Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
Amplifier Schwarzbeck BBV9719 CTA-406 2024/08/03 2025/08/		Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02

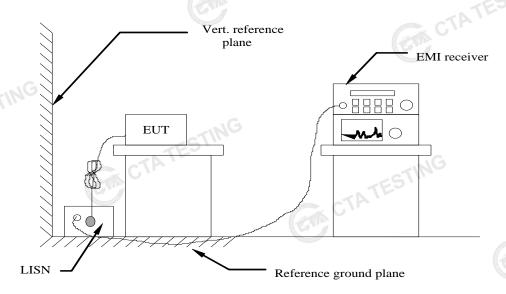
Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A
Car C.	CIA C	TATESTING	- CITA	TESTING	

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TEST CONDITIONS AND RESULTS

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:

Frequency rang	70 (MHz)	Limit (dBuV)				
Frequency rang	ge (IVII 12)	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 loga	arithm of the frequency	GIN				
TEST RESULTS	CTAT		STING			
Remark:			CATES			

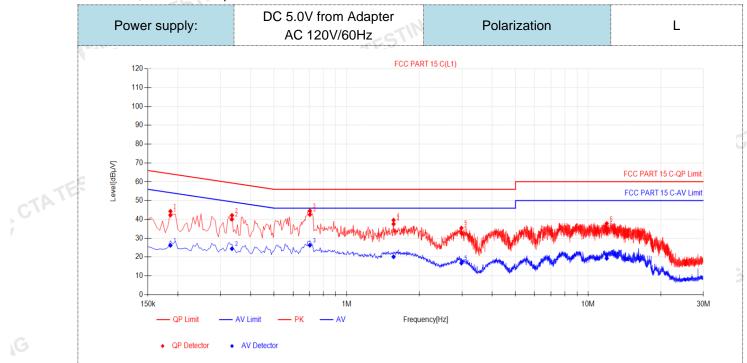
TEST RESULTS

Remark:

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

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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:

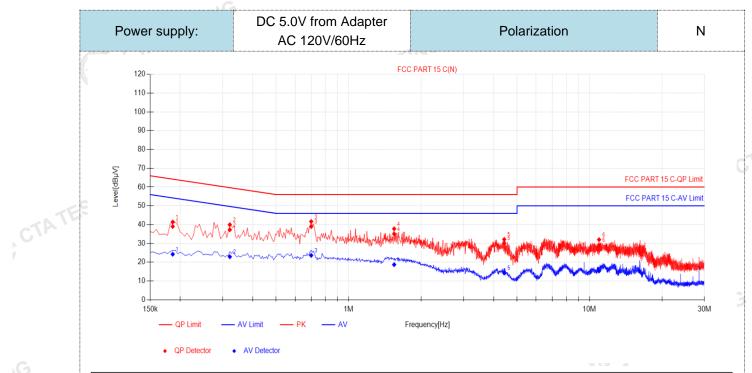


NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.186	10.03	32.28	42.31	64.21	21.90	16.18	26.21	54.21	28.00	PASS
2	0.3345	9.89	30.22	40.11	59.34	19.23	14.54	24.43	49.34	24.91	PASS
3	0.7035	9.91	32.64	42.55	56.00	13.45	16.39	26.30	46.00	19.70	PASS
4	1.563	9.90	27.67	37.57	56.00	18.43	10.25	20.15	46.00	25.85	PASS
5	2.985	10.02	22.67	32.69	56.00	23.31	6.77	16.79	46.00	29.21	PASS
6	11.9355	10.27	25.13	35.40	60.00	24.60	9.02	19.29	50.00	30.71	PASS

CTA TESTING

- 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). $AVMargin(dB) = AV Limit (dB\mu V) AV Value (dB\mu V)$

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NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dΒμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.186	10.01	29.00	39.01	64.21	25.20	14.26	24.27	54.21	29.94	PASS
2	0.321	9.86	27.42	37.28	59.68	22.40	13.04	22.90	49.68	26.78	PASS
3	0.699	10.06	28.92	38.98	56.00	17.02	13.58	23.64	46.00	22.36	PASS
4	1.545	10.14	24.95	35.09	56.00	20.91	8.58	18.72	46.00	27.28	PASS
5	4.425	10.10	20.05	30.15	56.00	25.85	4.18	14.28	46.00	31.72	PASS
6	10.959	10.40	18.78	29.18	60.00	30.82	4.99	15.39	50.00	34.61	PASS
Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)											

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

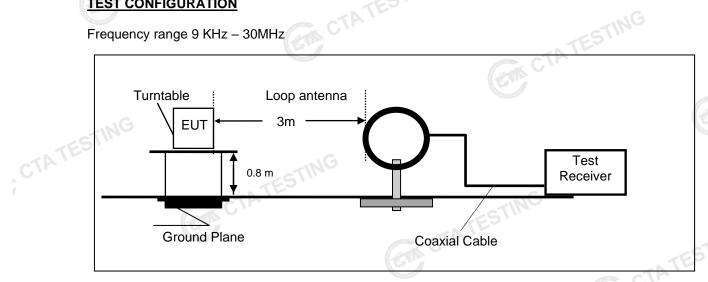
CTATES

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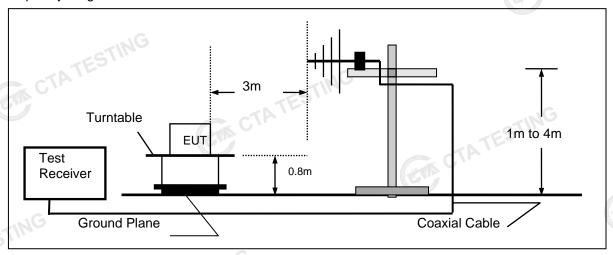
4.2 Radiated Emissions and Band Edge

TEST CONFIGURATION

Frequency range 9 KHz – 30MHz

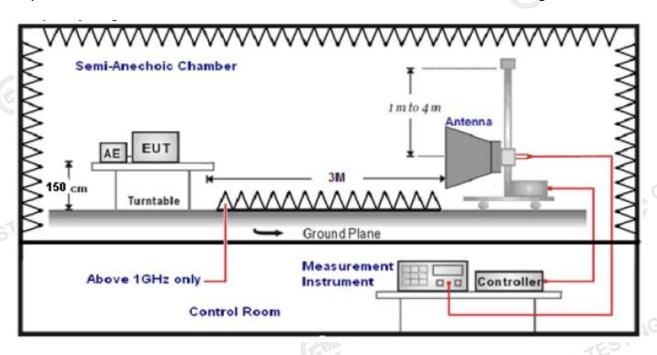


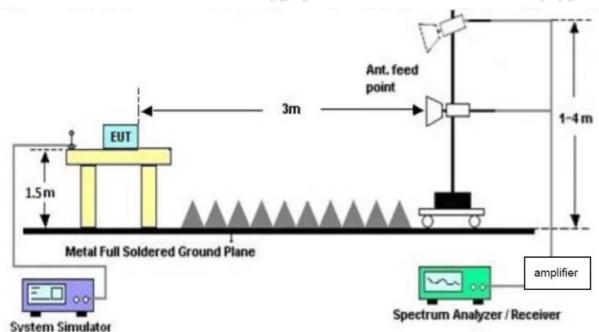
Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz

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TEST PROCEDURE

- 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.
- 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 antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- 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:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

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Setting test receiver/spectrum as following table states:

Test Receiver/Spectrum Setting	Detector	1
RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP	
RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP	
RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP	l
Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak	
he Antenna Factor and Cable Factor and subtracting t	CAN C	ζP
	RBW=200Hz/VBW=3KHz,Sweep time=Auto RBW=9KHz/VBW=100KHz,Sweep time=Auto RBW=120KHz/VBW=1000KHz,Sweep time=Auto Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	RBW=200Hz/VBW=3KHz,Sweep time=Auto QP RBW=9KHz/VBW=100KHz,Sweep time=Auto QP RBW=120KHz/VBW=1000KHz,Sweep time=Auto QP Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto

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

Where FS = Field Strength		CL = Cable Attenuation Factor	(Cable Loss)
RA = Reading Amplitude		AG = Amplifier Gain	-,NG
AF = Antenna Factor	Control		-55711
ansd=AF +CL-AG			CTATE
ATION LIMIT			

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 the 100kHz 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.

Frequency (MHz)	Distance	Radiated (dBµV/m)	Radiated (µV/m)
	(Meters)		
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
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	500

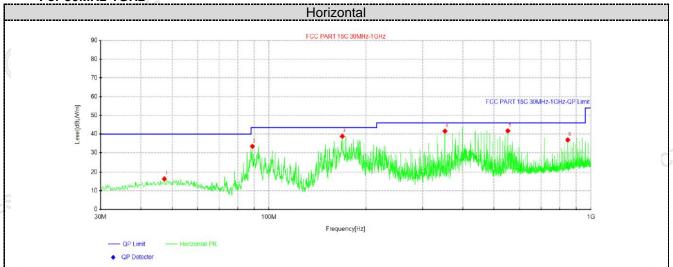
TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X
- BLE 1Mpbs were tested at Low, Middle, and High channel for all models and recorded worst mode at the 2. High channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- We tested test modes with car accessories supply(8-18V === 2.0A) or Type-C power supply(5V === 2.0A) and recorded the worst case at the Type-C power supply.

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For 30MHz-1GHz



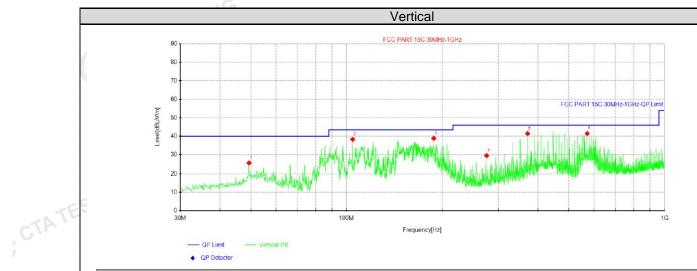
Susp	ected Data	List							
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Folarity
1	47.3388	27.63	16.33	-11.30	40.00	23.67	100	254	Horizontal
2	88.8062	48.44	33.47	-14.97	43.50	10.03	200	359	Horizontal
3	168.952	53.94	38.86	-15.08	43.50	4.64	100	173	Horizontal
4	352.04	52.28	41.60	-10.68	46.00	4.40	100	254	Horizontal
5	551.86	50.53	41.77	-8.76	46.00	4.23	200	197	Horizontal
6	846.74	40.73	36.93	-3.80	46.00	9.07	100	149	Horizontal

CTAT

Note:1).Level (dBµV/m)= Reading (dBµV)+ 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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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]	[°]	Folarity	
1	49.4	36.79	25.61	-11.18	40.00	14.39	100	274	Vertical	
2	104.568	51.37	38.34	-13.03	43.50	5.16	200	48	Vertical	
3	188.11	52.74	38.94	-13.80	43.50	4.56	100	339	Vertical	
4	275.895	41.09	29.58	-11.51	46.00	16.42	100	207	Vertical	
5	371.076	52.00	41.47	-10.53	46.00	4.53	200	16	Vertical	
6	570.775	49.15	41.50	-7.65	46.00	4.50	100	195	Vertical	

CTATE!

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

Note: We tested test modes with car accessories supply(8-18V === 2.0A)or Type-C power supply(5V === 2.0A) and recorded the worst case at the Type-C power supply.

GFSK (above 1GHz)

Freque	Frequency(MHz):			02	Pola	arity:	Н	IORIZONTA	۱L
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)
4804.00	61.66	PK	74	12.34	65.93	32.33	5.12	41.72	-4.27
4804.00	44.69	AV	54	9.31	48.96	32.33	5.12	41.72	-4.27
7206.00	53.93	PK	74	20.07	54.45	36.6	6.49	43.61	-0.52
7206.00	42.93	AV	54	11.07	43.45	36.6	6.49	43.61	-0.52

Freque	ncy(MHz):		2402		Polarity:		VERTICAL		
Frequency (MHz)		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)
4804.00	59.88	PK	74	14.12	64.15	32.33	5.12	41.72	-4.27
4804.00	42.81	AV	54	11.19	47.08	32.33	5.12	41.72	-4.27
7206.00	51.83	PK	74	22.17	52.35	36.6	6.49	43.61	-0.52
7206.00	41.25	AV	54	12.75	41.77	36.6	6.49	43.61	-0.52

Freque	Frequency(MHz):		2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	60.94	PK	74	13.06	64.82	32.6	5.34	41.82	-3.88
4880.00	44.02	AV	54	9.98	47.90	32.6	5.34	41.82	-3.88
7320.00	53.16	PK	74	20.84	53.27	36.8	6.81	3.72	-0.11
7320.00	42.18	AV	54	11.82	42.29	36.8	6.81	43.72	-0.11

					-714						
Freque	Frequency(MHz):		2440		Polarity:		VERTICAL				
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)		
4880.00	59.19	PK	74	14.81	63.07	32.6	5.34	41.82	-3.88		
4880.00	42.26	AV	54	11.74	46.14	32.6	5.34	41.82	-3.88		
7320.00	51.47	PK	74	22.53	51.58	36.8	6.81	43.72	-0.11		
7320.00	40.58	AV	54	13.42	40.69	36.8	6.81	43.72	-0.11		

Frequency(MHz):		2480		Polarity:		HORIZONTAL			
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	60.26	PK	74	13.74	63.34	32.73	5.66	41.47	-3.08
4960.00	43.42	AV	54	10.58	46.50	32.73	5.66	41.47	-3.08
7440.00	52.57	PK	74	21.43	52.12	37.04	7.25	43.84	0.45
7440.00	41.52	AV	54	12.48	41.07	37.04	7.25	43.84	0.45

Freque	Frequency(MHz):		2480		Polarity:		VERTICAL		
Frequency (MHz)	_	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	58.64	PK	74	15.36	61.72	32.73	5.66	41.47	-3.08
4960.00	41.47	AV	54	12.53	44.55	32.73	5.66	41.47	-3.08
7440.00	50.64	PK	74	23.36	50.19	37.04	7.25	43.84	0.45

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- 4										
	7440.00	40.00	AV	54	14.00	39.55	37.04	7.25	43.84	0.45

REMARKS:

- 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)

Note: We tested test modes with car accessories supply(8-18V === 2.0A) or Type-C power supply(5V === 2.0A) and recorded the worst case at the Type-C power supply.

Freque	ncy(MHz)	:	24	02	Pola	arity:	Н	ORIZONTA	\L
Frequency (MHz)	Emis Le (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	61.78	PK	74	12.22	72.20	27.42	4.31	42.15	-10.42
2390.00	42.92	AV	54	11.08	53.34	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	24	02	Pola	arity:		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	60.20	PK	74	13.80	70.62	27.42	4.31	42.15	-10.42
2390.00	40.81	AV	54	13.19	51.23	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	2480		Pola	arity:	Н	IORIZONTA	۱L
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	61.08	PK	74	12.92	71.19	27.7	4.47	42.28	-10.11
2483.50	42.23	AV	54	11.77	52.34	27.7	4.47	42.28	-10.11
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	59.48	PK	74	14.52	69.59	27.7	4.47	42.28	-10.11
2483.50	40.63	AV	54	13.37	50.74	27.7	4.47	42.28	-10.11

REMARKS:

- 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.

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Maximum Peak Output Power

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

est Results				ATESTI
Туре	Channel	Output power (dBm)	Limit (dBm)	Result
14.	00	-1.92		
GFSK 1Mbps	19	-2.55	30.00	Pass
	39	-3.14		

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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 ≥ 3 kHz.
- Set the VBW ≥ 3× RBW.
- CTA TESTING 4. Set the span to 1.5 times the DTS channel bandwidth.
- 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.

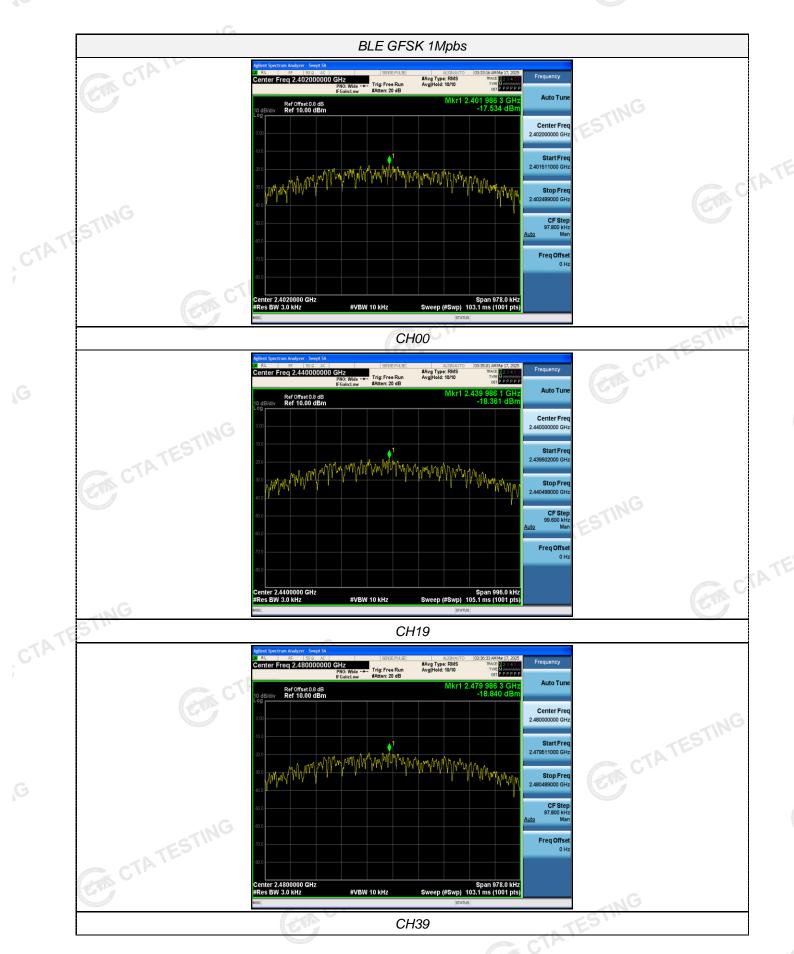
Test Configuration



Test Results

	Туре	Channel	Power Spectral Density	Limit (dBm/3KHz)	Result
75	1,700	Onamo	(dBm/3KHz)	Emili (dBiri/orti iz)	rtoodit
		00	-17.53		
	GFSK 1Mbps	19	-18.36	8.00	Pass
		39	-18.84	, C	
7	Test plot as follows	G.	CTATES		TESTING

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4.5 6dB Bandwidth

Limit

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		CTATESTING
Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
GTIME	00	0.652		
GFSK 1Mbps	19	0.664	≥500	Pass
C/L	39	0.652		
Test plot as follows:	CIN C	TATES	CTATESTIN	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 con-ducted 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 CTA TESTING made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration

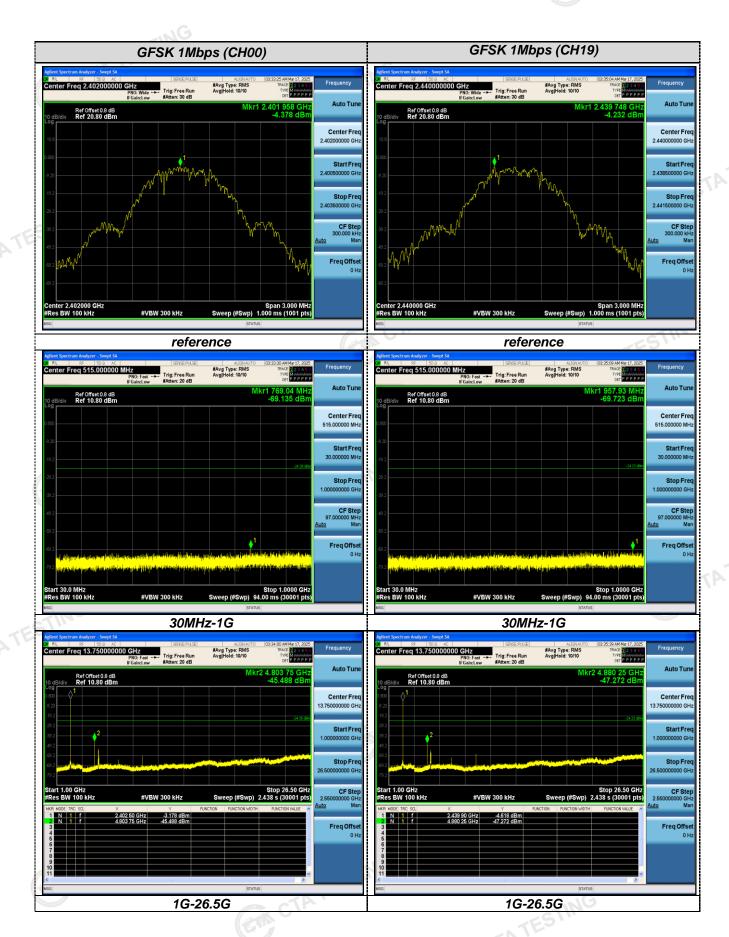


Test Results

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 CTATE measurement data.

Test plot as follows:

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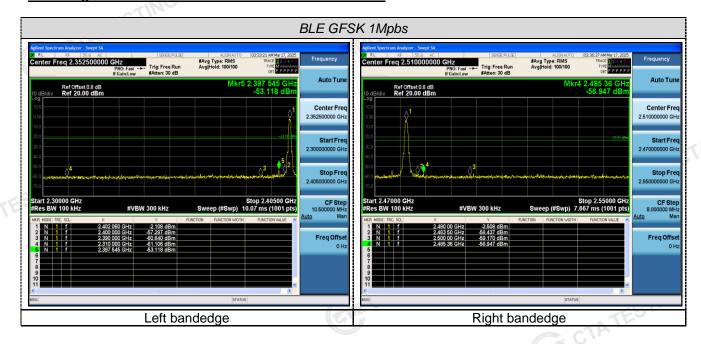


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Band-edge Measurements for RF Conducted Emissions:



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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.

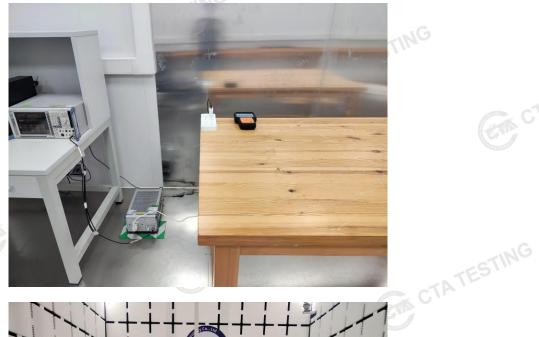
Antenna Connected Construction

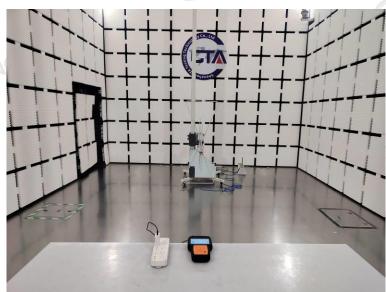
The gain of antenna was 0.81 dBi.

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. CTATESTING

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Test Setup Photos of the EUT







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Photos of the EUT







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