

# RADIO TEST REPORT FCC ID: 2AHI4-GOBT01

Product: Bluetooth Dongle Trade Mark: DOBOT Model No.: GoBT01 Family Model: N/A Report No.: S21070100401003 Issue Date: Sep 13. 2021

## **Prepared for**

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### Prepared by

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### **1 TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Yuejiang Technology Co., Ltd	
Address:	Floor 9-10, Building 2, Chongwen Garden, No. 3370 Nanshan iPark, Liuxian Avenue, Nanshan District, Shenzhen City, China	
Manufacturer's Name	Shenzhen Yuejiang Technology Co., Ltd	
Address:	Floor 9-10, Building 2, Chongwen Garden, No. 3370 Nanshan iPark, Liuxian Avenue, Nanshan District, Shenzhen City, China	
Product description		
Product name:	Bluetooth Dongle	
Model and/or type reference:	GoBT01	
Family Model	N/A	

Measurement Procedure Used:

### APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	Complied
ANSI C63.10-2013	Complied
KDB 558074 D01 15.247 Meas Guidance v05r02	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Jul 01. 2021 ~Sep 22. 2021	_
Testing Engineer	:	Mukri Lee	
		(Mukzi Lee)	_
Authorized Signatory	:	Ades	
Autionzed Signatory	·	(Alex Li)	_



### 2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C					
Standard Section Test Item Verdict Remark					
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	Peak Output Power	PASS			
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.247 (d) Band Edge Emission PASS					
15.247 (d)	Spurious RF Conducted Emission	PASS			
15.203	Antenna Requirement	PASS			

#### Remark:

1. "N/A" denotes test is not applicable in this Test Report.

 All test items were verified and recorded according to the standards and without any deviation during the test.



### **3 FACILITIES AND ACCREDITATIONS**

### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

### 3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB



### 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Bluetooth Dongle	
Trade Mark	DOBOT	
FCC ID	2AHI4-GOBT01	
Model No.	GoBT01	
Family Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK	
Number of Channels	40 Channels	
Antenna Type	PCB Antenna	
Antenna Gain	1dBi	
Power supply	DC 5V	
Adapter	N/A	
HW Version	N/A	
SW Version	N/A	

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



### **Revision History**

ACCREDITED Certificate #4298.01

Version Rev.01	Description Initial issue of report	Issued Date Sep 22, 2021
Rev.01	Initial issue of report	Sep 22, 2021
		-



### 5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+k×2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases		
Test Item	Data Rate/ Modulation	
AC Conducted Emission	Mode 1: normal link mode	
	Mode 1: normal link mode	
Radiated Test Cases	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps	
	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps	
Conducted Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

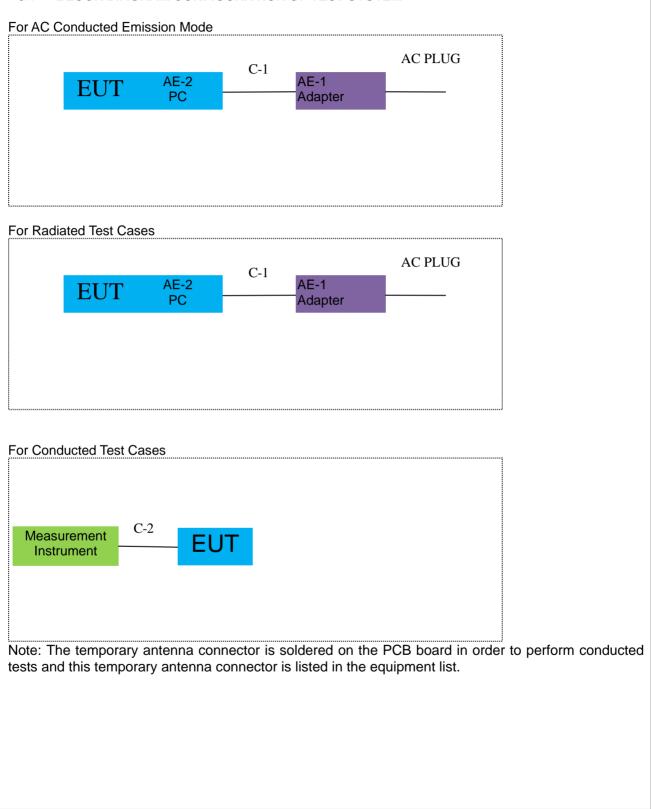
2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.





### 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM





### 6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals
AE-2	PC	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

#### Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.04.27	2022.04.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.04.27	2022.04.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.20	2021.11.19	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.20	2021.11.19	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.11.20	2021.11.19	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	Filter	TRILTHIC	2400MHz	29	2020.11.20	2021.11.19	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

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Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



### 7 TEST REQUIREMENTS

### 7.1 CONDUCTED EMISSIONS TEST

### 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

### 7.1.2 Conformance Limit

Frequency (MHz)	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. \*Decreases with the logarithm of the frequency

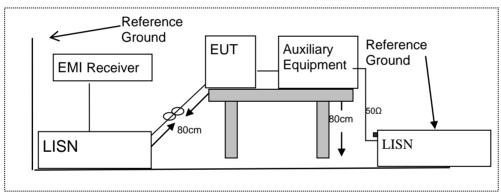
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.1.4 Test Configuration



### 7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



### 7.1.6 Test Results

EUT:	Bluetooth Dongle	Model Name :	GoBT01
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
	DC 5V from PC AC 120V/60Hz	Test Mode:	Mode 1

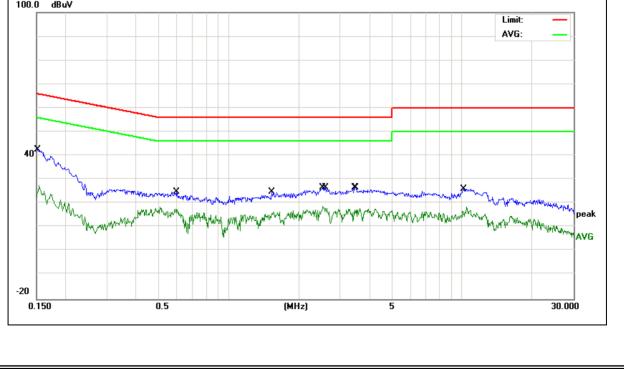
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	32.68	9.72	42.40	65.78	-23.38	QP
0.1539	17.94	9.72	27.66	55.78	-28.12	AVG
0.5977	15.10	9.69	24.79	56.00	-31.21	QP
0.5977	8.01	9.69	17.70	46.00	-28.30	AVG
1.5339	15.03	9.76	24.79	56.00	-31.21	QP
1.5339	6.12	9.76	15.88	46.00	-30.12	AVG
2.5579	8.60	9.73	18.33	46.00	-27.67	QP
2.6059	16.90	9.73	26.63	56.00	-29.37	AVG
3.4900	16.91	9.70	26.61	56.00	-29.39	QP
3.5539	7.80	9.69	17.49	46.00	-28.51	AVG
10.1219	6.98	9.71	16.69	50.00	-33.31	QP
10.1615	16.46	9.71	26.17	60.00	-33.83	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





Version.1.3





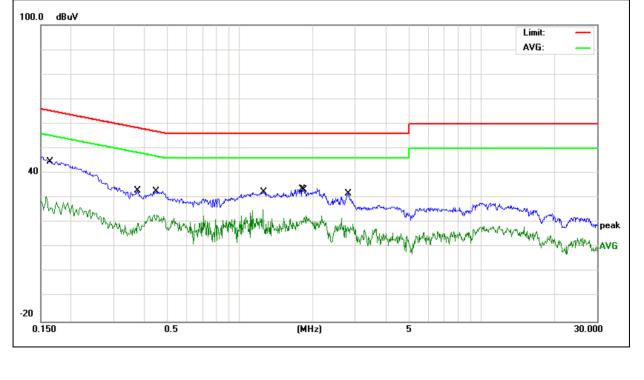
EUT:	Bluetooth Dongle	Model Name :	GoBT01
Temperature:	<b>22</b> °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1640	35.10	9.63	44.73	65.25	-20.52	QP
0.1660	16.57	9.63	26.20	55.15	-28.95	AVG
0.3780	23.24	9.70	32.94	58.32	-25.38	QP
0.3790	10.01	9.70	19.71	48.30	-28.59	AVG
0.4500	22.96	9.72	32.68	56.87	-24.19	QP
0.4540	13.32	9.72	23.04	46.80	-23.76	AVG
1.2459	15.46	9.73	25.19	46.00	-20.81	QP
1.2620	22.61	9.72	32.33	56.00	-23.67	AVG
1.8180	23.87	9.68	33.55	56.00	-22.45	QP
1.8500	12.34	9.67	22.01	46.00	-23.99	AVG
2.7860	8.59	9.71	18.30	46.00	-27.70	QP
2.7980	22.07	9.71	31.78	56.00	-24.22	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



Version.1.3



### 7.2 RADIATED SPURIOUS EMISSION

### 7.2.1 Applicable Standard

### According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

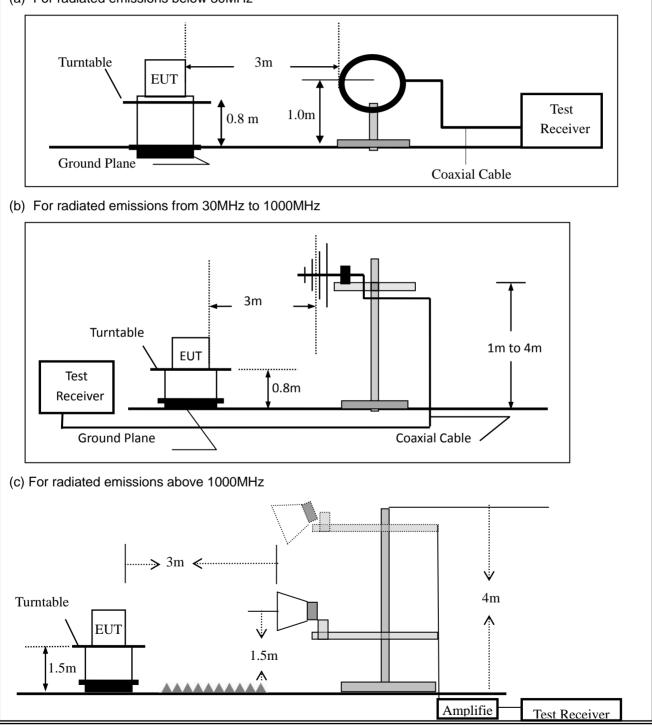


### 7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.2.4 Test Configuration

### (a) For radiated emissions below 30MHz



Version.1.3



### 7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

eee ale lollewing opeer an analyzer bearinge.							
Spectrum Parameter	Setting						
Attenuation	Auto						
Start Frequency	1000 MHz						
Stop Frequency	10th carrier harmonic						
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average						

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
   Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	equency Band (MHz) Function		Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ab 200 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

### 7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Mukzi Lee

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

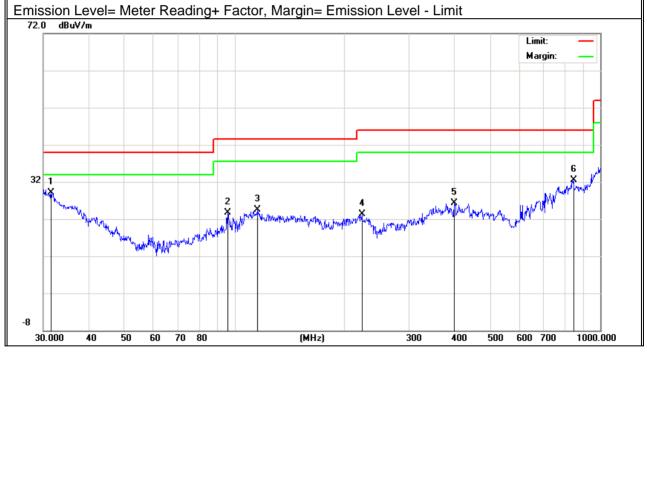


Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

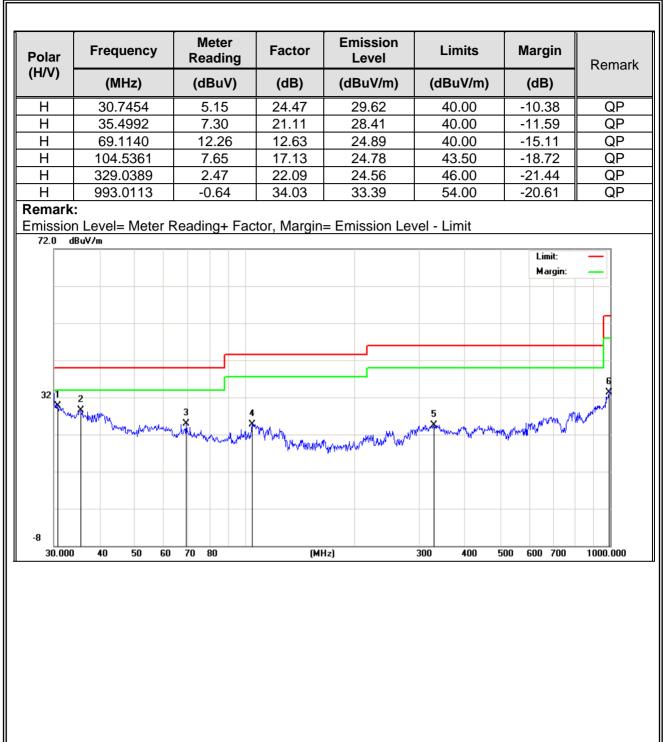
EUT:	Bluetooth Dongle	Model Name :	GoBT01
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 5V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
V	31.5092	5.46	23.65	29.11	40.00	-10.89	QP	
V	95.7622	7.25	16.37	23.62	43.50	-19.88	QP	
V	115.7256	6.54	17.88	24.42	43.50	-19.08	QP	
V	222.9499	6.10	17.24	23.34	46.00	-22.66	QP	
V	399.0300	2.70	23.59	26.29	46.00	-19.71	QP	
V	845.0878	0.83	31.70	32.53	46.00	-13.47	QP	

Remark:







ACCREDITED Certificate #4298.01



<ul> <li>Spurious Emission Above 1GHz (1GHz to 25GHz)</li> <li>EUT: Bluetooth Dongle Model No.: GoBT01</li> </ul>							-				
-	Temperature: 20 °C Relative Humidity: 48%										
Test Mode:		•	de3/Mode4		est By:		-	, zi Lee			
lest moue.					SI Dy.		IVIUR2				
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor		Lim	nits	Margin	Rema	ark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	V/m)	(dB)			
			Low Cha	annel (24(	02 MHz)(GFSK	<)Abo	ve 1G	j			
4804	68.64	5.21	35.59	44.30	65.14	74.0	.00	-8.86	Pk	I	Vertical
4804	46.55	5.21	35.59	44.30	43.05	54.0	.00	-10.95	AV		Vertical
7206	69.57	6.48	36.27	44.60	67.72	74.0	.00	-6.28	Pk		Vertical
7206	49.46	6.48	36.27	44.60	47.61	54.0	.00	-6.39	AV		Vertical
4804	70.69	5.21	35.55	44.30	67.15	74.0	.00	-6.85	Pk	F	Iorizontal
4804	47.8	5.21	35.55	44.30	44.26	54.0	.00	-9.74	AV	F	Iorizontal
7206	70.38	6.48	36.27	44.52	68.61	74.0	.00	-5.39	Pk	F	Iorizontal
7206	50.75	6.48	36.27	44.52	48.98	54.0	.00	-5.02	AV	F	Horizontal
Mid Channel (2440 MHz)(GFSK)Above 1G											
4880	70.92	5.21	35.66	44.20	67.59	74.0	00	-6.41	Pk		Vertical
4880	46.38	5.21	35.66	44.20	43.05	54.0	.00	-10.95	AV		Vertical
7320	70.04	7.10	36.50	44.43	69.21	74.0	00	-4.79	Pk		Vertical
7320	45.91	7.10	36.50	44.43	45.08	54.0	00	-8.92	AV		Vertical
4880	70.53	5.21	35.66	44.20	67.20	74.0	.00	-6.80	Pk	F	Iorizontal
4880	50.47	5.21	35.66	44.20	47.14	54.0	.00	-6.86	AV	F	Iorizontal
7320	68.29	7.10	36.50	44.43	67.46	74.0	.00	-6.54	Pk	F	Iorizontal
7320	47.71	7.10	36.50	44.43	46.88	54.0	.00	-7.12	AV	F	Iorizontal
			High Cha	annel (248	80 MHz)(GFSK	<) Abc	ove 10	3			
4960	68.95	5.21	35.52	44.21	65.47	74.(	00	-8.53	Pk		Vertical
4960	48.51	5.21	35.52	44.21	45.03	54.0	00	-8.97	AV		Vertical
7440	68.73	7.10	36.53	44.60	67.76	74.(	00	-6.24	Pk	I	Vertical
7440	48.11	7.10	36.53	44.60	47.14	54.0	00	-6.86	AV	I	Vertical
4960	68.73	5.21	35.52	44.21	65.25	74.(	00	-8.75	Pk	F	Iorizontal
4960	46.31	5.21	35.52	44.21	42.83	54.0	.00	-11.17	AV	F	Horizontal
7440	68.54	7.10	36.53	44.60	67.57	74.0	.00	-6.43	Pk	F	Iorizontal
7440	51	7.10	36.53	44.60	50.03	54.0	.00	-3.97	AV	F	lorizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



	Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz											
E	UT:	Bluetooth Dongle			Mc	Model No.:		GoBT01				
Те	emperature:	<b>20</b> ℃			Re	Relative Humidity:			48%			
Те	est Mode:	Mode2/	Mode2/ Mode4			Test By:		Mukzi Lee				
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Factor		Lim	nits	Margin	Detector	Comment	

	Reauling	L055	Facior	Facior	Level				Comment			
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре				
	1Mbps(GFSK)											
2310.00	70.75	2.97	27.80	43.80	57.72	74	-16.28	Pk	Horizontal			
2310.00	47.23	2.97	27.80	43.80	34.20	54	-19.80	AV	Horizontal			
2310.00	68.08	2.97	27.80	43.80	55.05	74	-18.95	Pk	Vertical			
2310.00	46.36	2.97	27.80	43.80	33.33	54	-20.67	AV	Vertical			
2390.00	70.89	3.14	27.21	43.80	57.44	74	-16.56	Pk	Vertical			
2390.00	49.76	3.14	27.21	43.80	36.31	54	-17.69	AV	Vertical			
2390.00	69.03	3.14	27.21	43.80	55.58	74	-18.42	Pk	Horizontal			
2390.00	46.55	3.14	27.21	43.80	33.10	54	-20.90	AV	Horizontal			
2483.50	68.62	3.58	27.70	44.00	55.90	74	-18.10	Pk	Vertical			
2483.50	47.38	3.58	27.70	44.00	34.66	54	-19.34	AV	Vertical			
2483.50	69.3	3.58	27.70	44.00	56.58	74	-17.42	Pk	Horizontal			
2483.50	49.69	3.58	27.70	44.00	36.97	54	-17.03	AV	Horizontal			

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



U٦	Г:	Bluetoo	oth Dong	gle	Μ	Model No.:			GoBT01			
en	nperature: 20 °C Relative Humidity: 48%											
es	t Mode:	Mode2	lode2/ Mode4				Зу:		Mukz	i Lee		
	Frequency	Reading Level	Cable Loss	Antenna Factor	Prea Fact		Emission Level	Lin	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB	3)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
	3260	70.63	4.04	29.57	44.7	70	59.54	7	4	-14.46	Pk	Vertical
	3260	50.34	4.04	29.57	44.7	70	39.25	5	4	-14.75	AV	Vertical
	3260	68.48	4.04	29.57	44.7	70	57.39	7	4	-16.61	Pk	Horizontal
	3260	48.42	4.04	29.57	44.7	70	37.33	5	4	-16.67	AV	Horizontal
Γ	3332	68.25	4.26	29.87	44.4	40	57.98	7	4	-16.02	Pk	Vertical
	3332	50.42	4.26	29.87	44.4	40	40.15	5	4	-13.85	AV	Vertical
	3332	69.52	4.26	29.87	44.4	40	59.25	7	4	-14.75	Pk	Horizontal
	3332	48.91	4.26	29.87	44.4	40	38.64	5	4	-15.36	AV	Horizontal
	17797	53.34	10.99	43.95	43.5	50	64.78	7	4	-9.22	Pk	Vertical
	17797	30.66	10.99	43.95	43.5	50	42.10	5	4	-11.90	AV	Vertical
	17788	48.55	11.81	43.69	44.6	60	59.45	7	4	-14.55	Pk	Horizontal
	17788	40.44	11.81	43.69	44.6	60	51.34	5	4	-2.66	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



### 7.3 6DB BANDWIDTH

### 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

### 7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq$  3\*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.3.6 Test Results

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



### 7.4 DUTY CYCLE

### 7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

### 7.4.2 Conformance Limit

No limit requirement.

### 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

### 7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if T  $\leq$  6.25 microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz ( $\geq$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub> / T<sub>total</sub>



### 7.4.6 Test Results

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



### 7.5 **PEAK OUTPUT POWER**

### 7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

### 7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

### 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

### 7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW  $\geq$  DTS bandwidth. Set VBW =3\*RBW. Set the span  $\geq$  3\*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

### 7.5.6 Test Results

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



### 7.6 **POWER SPECTRAL DENSITY**

### 7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

### 7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5\*DTS bandwidth.

c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .

- d) Set the VBW  $\geq$  3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- $\dot{g}$ ) Trace mode = max hold.
- h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



### 7.6.6 Test Results

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



### 7.7 CONDUCTED BAND EDGE MEASUREMENT

### 7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

### 7.7.2 Conformance 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, 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.

#### 7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

### 7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

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.

Repeat above procedures until all measured frequencies were complete.

### 7.7.6 Test Results

EUT:	Bluetooth Dongle	Model No.:	GoBT01
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mukzi Lee



### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

### 7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

### 7.8.5 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 bandege measurement data.



### 7.9 ANTENNA APPLICATION

### 7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

### 7.9.2 Result

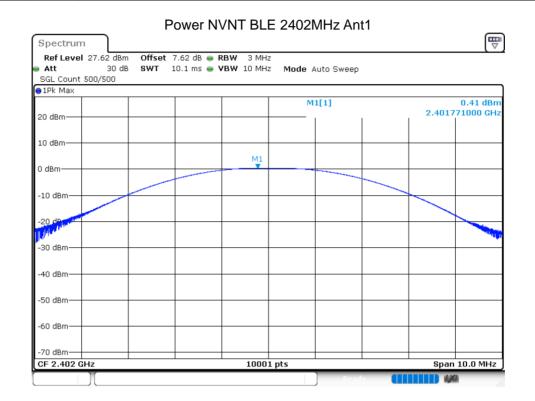
The EUT antenna is permanent attached PCB antenna (Gain: 1 dBi). It comply with the standard requirement.



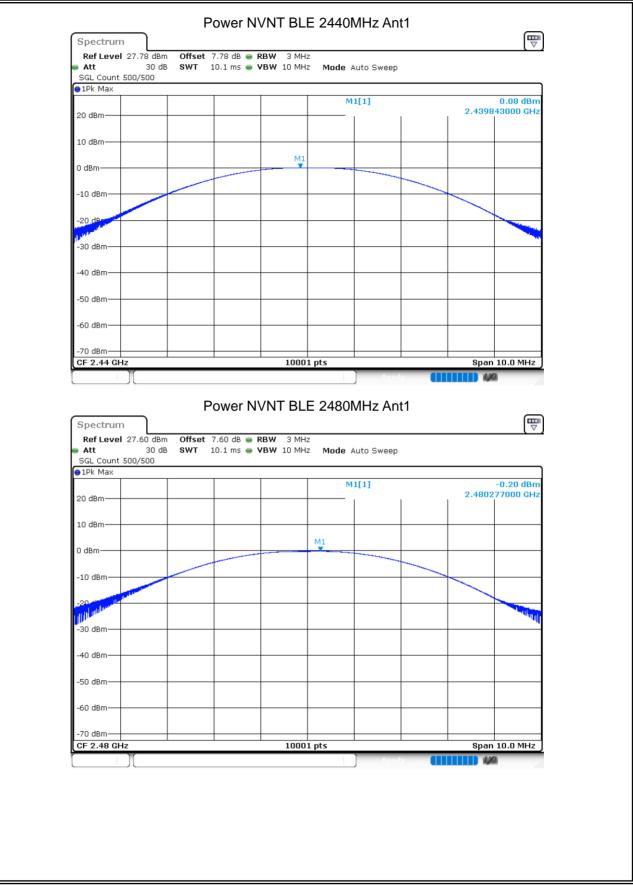
### 8 TEST RESULTS

#### 8.1 MAXIMUM CONDUCTED OUTPUT POWER

Con	dition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
N\	/NT	BLE	2402	Ant 1	0.411	30	Pass
N\	/NT	BLE	2440	Ant 1	0.083	30	Pass
N\	/NT	BLE	2480	Ant 1	-0.204	30	Pass



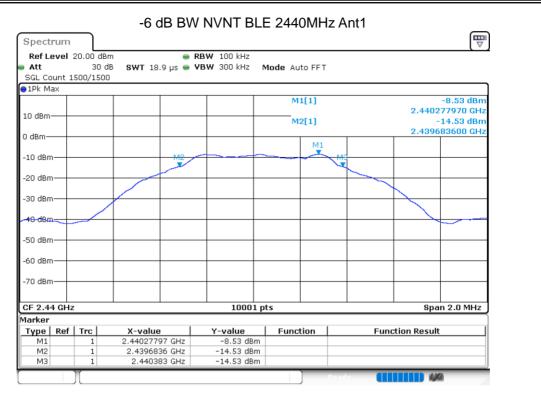




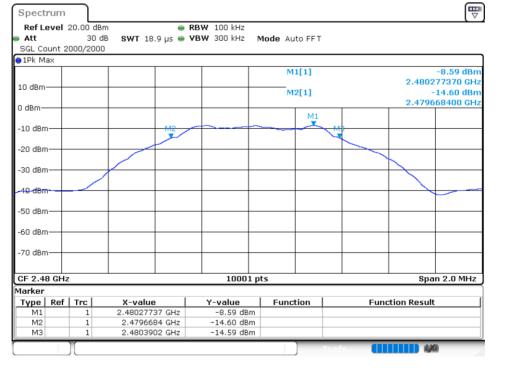


Condition	Mode	Frequenc (MHz)	y Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdio
NVNT	BLE	2402	Ant 1	0.699	0.5	Pass
NVNT	BLE	2440	Ant 1	0.6994	0.5	Pass
NVNT	BLE	2480	Ant 1	0.7218	0.5	Pass
	Spectrum Ref Leve Att SGL Count	n I 20.00 dBm 30 dB <b>SWT</b>	<b>e RBW</b> 100	KHZ KHZ Mode Auto FFT		
	UPK Max			M1[1]	-8.11 dBm	
	10 dBm				2.402276970 GHz -14.12 dBm	
	0 dBm				2.401681400 GHz	
			Ma	M1		
	-10 dBm					
	-20 dBm—					
	-30 dBm					
	-40 dBm					
	-50 dBm					
	-60 dBm					
	-70 dBm					
	CF 2.402 (	GHz	1	10001 pts	Span 2.0 MHz	
	Marker Type Re	f Trc X-v	alue   Y-val	ue Function	Function Result	
	M1 M2	1 2.402	27697 GHz -8.	11 dBm 12 dBm		
	M3			12 dBm		
		)[]		Ready		

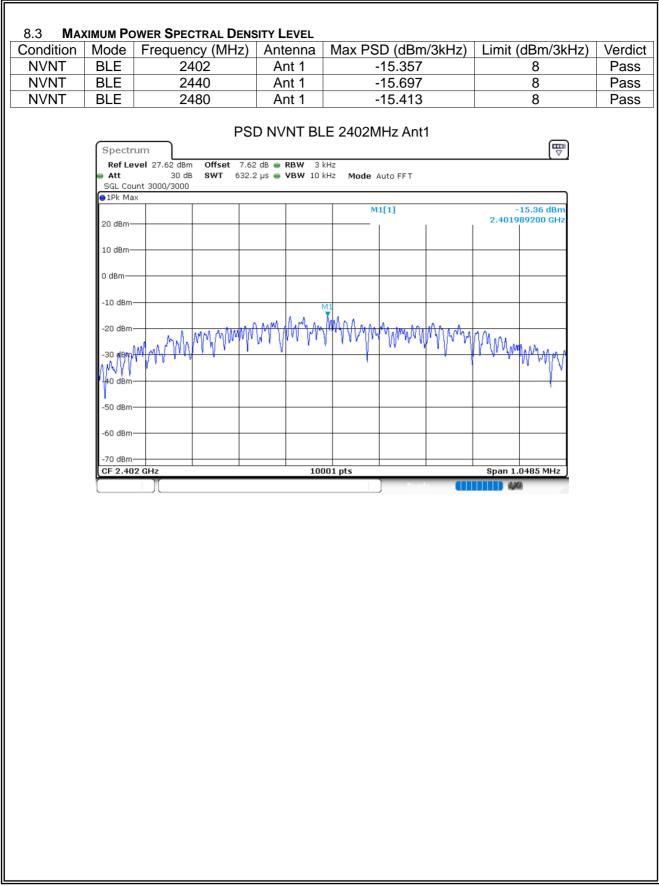




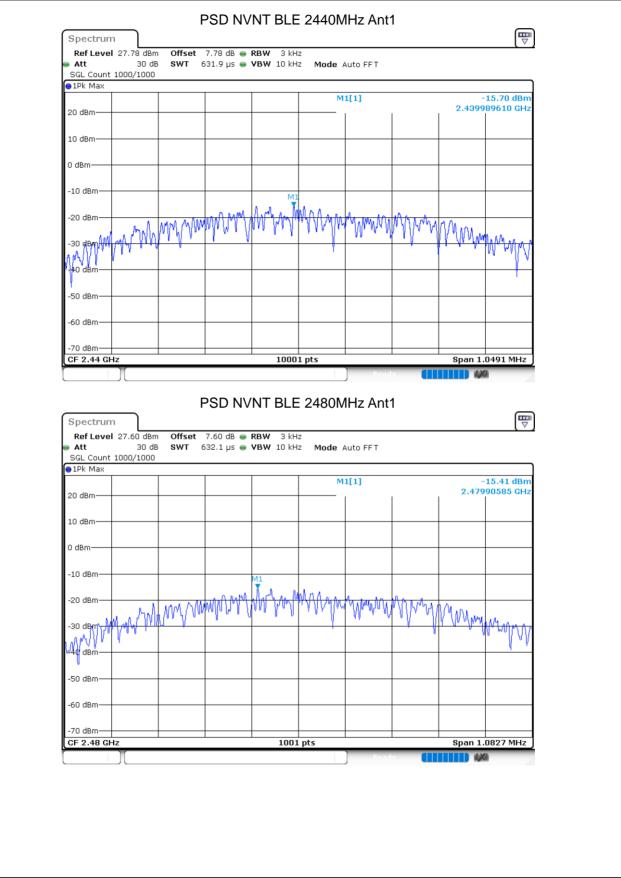










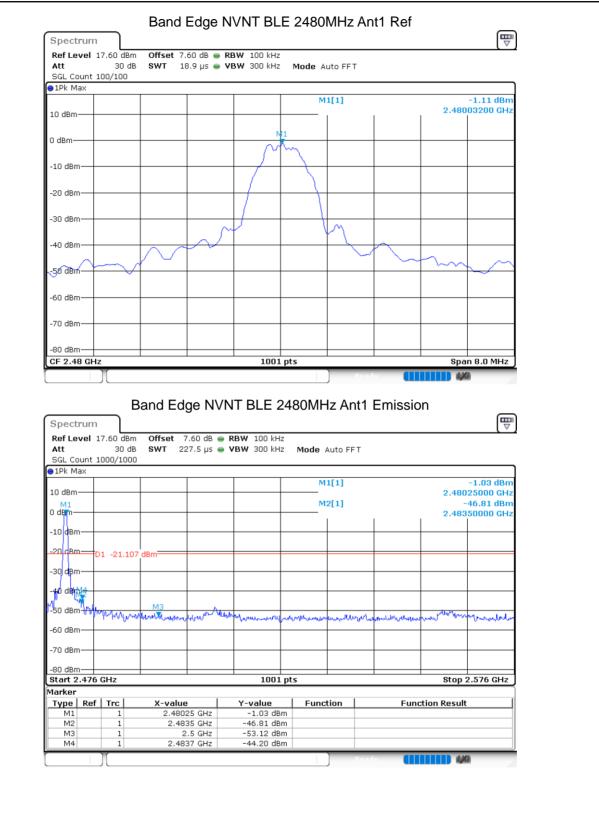




#### 8.4 BAND EDGE Condition Mode Frequency (MHz) Antenna Max Value (dBc) Limit (dBc) Verdict NVNT BLE 2402 Ant 1 -50.83 -20 Pass NVNT -20 BLE 2480 Ant 1 -43.08 Pass Band Edge NVNT BLE 2402MHz Ant1 Ref ₽ Spectrum Ref Level 17.62 dBm Offset 7.62 dB 👄 RBW 100 kHz 30 dB SWT 18.9 µs 👄 VBW 300 kHz Att Mode Auto FET SGL Count 100/100 ●1Pk Max M1[1] -0.54 dBn 2.40202400 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm 40 dBm -\$0 d8m7 -60 dBm -70 dBm -80 dBm· CF 2.402 GHz 1001 pts Span 8.0 MHz Band Edge NVNT BLE 2402MHz Ant1 Emission ₽ Spectrum Ref Level 17.62 dBm Offset 7.62 dB 🖷 RBW 100 kHz 30 dB SWT 227.5 µs 🖷 VBW 300 kHz Att Mode Auto FFT SGL Count 100/100 ⊖1Pk Max M1[1] -1.03 dBn 10 dBm 2.40185000 GHz M2[1] -42.98/dBm 0 dBm-2.40000000 GHz -10 dBm--20 dBm-D1 -20.540 -30 dBm -40 dBm M4 -50 dBm· and which which which which which and a start which we have a start which which which which we have a start which which we have a start which was a start which was a start which was a start which we have a start which we have a start which was portundas withher Win war Martin <mark>արավ</mark>ավ -60 dBm allowthing whitehas abore roomant -70 dBm· -80 dBm Stop 2.406 GHz Start 2.306 GHz 1001 pts Marker Type | Ref | Trc Function Function Result X-value Y-value 2.40185 GHz -1.03 dBm Μ1 1 M2 2.4 GHz -42.98 dBm M3 2.39 GHz -54.21 dBm 1 2.3529 GHz M4 1 -51.38 dBm

ACCREDITED Certificate #4298.01



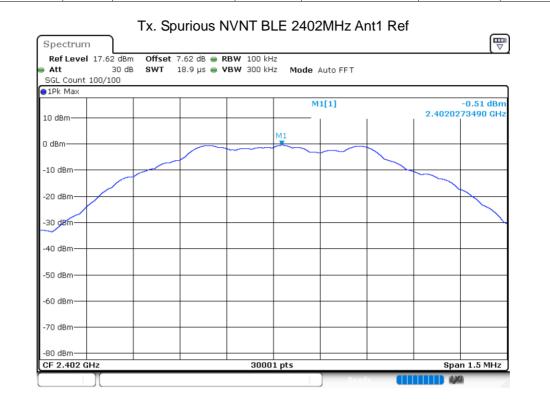




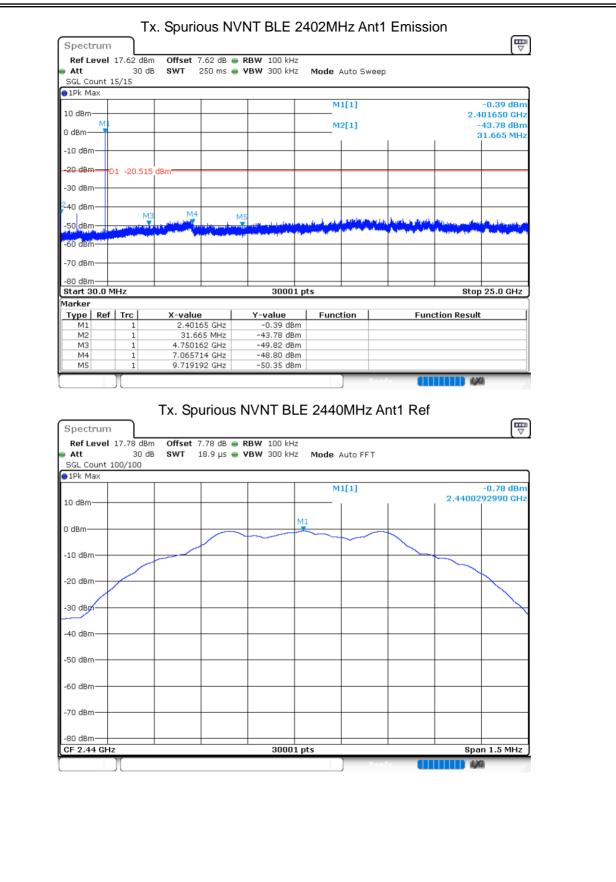
Certificate #4298.01

### 8.5 **CONDUCTED RF SPURIOUS EMISSION**

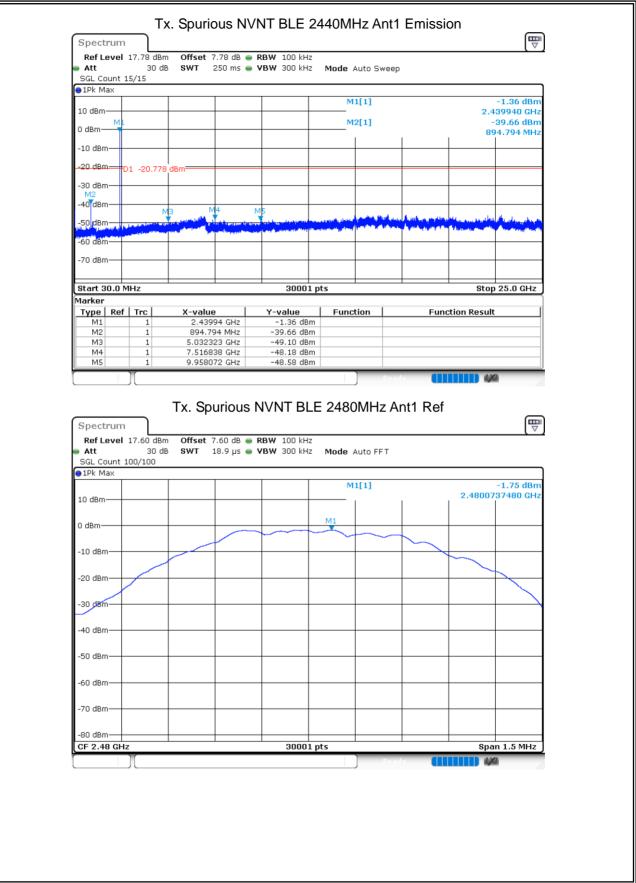
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant 1	-43.27	-20	Pass
NVNT	BLE	2440	Ant 1	-38.88	-20	Pass
NVNT	BLE	2480	Ant 1	-38.06	-20	Pass













Ref Level 17.6		Offset 7	.60 dB	<b>RBW</b> 100 kHz	,				∣⊽
Att	30 dB			<b>VBW</b> 300 kHz		Sweep			
SGL Count 10/10 1Pk Max	)								
IPK Max					M1[1]				-1.50 dBm
) dBm								2.4	79890 GHz
dBm M1					M2[1]				39.82 dBm
ubili						1		90	19.776 MHz
LO dBm									
0 dBm									
D1 -2	1.754 dB	m							
) dBm									
M2									
M2	M3	M		M5					
M2 0 dBm	M3	M		M5	to the standard state		ad a split pate	الافتار في المراجع	
M2 0 dBm	M3	M		M5	te partera di facilità dell'accessi a scala di facilità della della della della della della della della della d Nango della				
M2 O dBm	M3	M		M 5 God Marine Marine Marine God Marine Marine Marine			teles piterite		
M2 0 dBm 0 dBm 0 dBm 0 dBm	M3	M		M5			ter konstan bisi parketa 1990 - Sangara para	and a second	
M2 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3	M		MS	fra sensi fersi ng baga kana tangga sensi fersi ng baga kana tangga kana tangga kana tangga kana tangga kana ta		fad o sylid odda y dagogo y dagog		<b>****</b> ***
M2 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3	M		30001	nts			Stor	25.0 GHz
M2 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 10 dBm 10 dBm 10 dBm	M3	M		10001	pts		find an earlief and an	Stop	25.0 GHz
M2 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm art 30.0 MHz rker	M3	X-value		M5 	pts		Func	Stop	
M2 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm art 30.0 MHz rker ype Ref Trc	M3	X-value			Function		Func		
M2 0 dBm 0 d	1	X-value 2.4798 909.77	39 GHz 76 MHz	<b>Y-value</b> -1.50 dBr -39.82 dBr	Function		Func		
M2 0 dBm 0 dBm 0 dBm 10 dB	1	X-value 2.4798 909.77	101 - 101 -	<b>Y-value</b> −1.50 dBr	Function n n n		Func		

END OF REPORT