

Report No: CCISE200805601

# FCC REPORT

Applicant:	Bitwave Pte Ltd			
Address of Applicant:	11 Serangoon North Ave 5, #05-03, Singapore 554809			
Equipment Under Test (E	EUT)			
Product Name:	Bluetooth Helmet Communicator			
Model No.:	EXO-COM			
Trade mark:	UClear Digital			
FCC ID:	NMC-XCOM			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Date of sample receipt:	19 Aug., 2020			
Date of Test:	20 Aug., to 30 Oct., 2020			
Date of report issued:	30 Oct., 2020			
Test Result:	PASS *			

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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#### Version 2

Version No.	Date	Description
00	30 Oct., 2020	Original

Tested by:

Test Engineer Winner Thang

Date: 30 Oct., 2020

Reviewed by:

**Project Engineer** 

Date:

30 Oct., 2020

## CCIS

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#### **Test Summary** 4

Test Items	Section in CFR 47	Result	
Antenna requirement	15.203 & 15.247 (b)	Pass	
AC Power Line Conducted Emission	15.207	N/A	
Conducted Peak Output Power	15.247 (b)(3)	Pass	
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass	
Power Spectral Density	15.247 (e)	Pass	
Band Edge	15.247 (d)	Pass	
Spurious Emission	15.205 & 15.209	Pass	
<b>Remark:</b> 1. Pass: The EUT complies with the essent 2. N/A: Not Applicable.	tial requirements in the standard.	·	

З. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02



## **5** General Information

### 5.1 Client Information

Applicant:	Bitwave Pte Ltd
Address:	11 Serangoon North Ave 5, #05-03, Singapore 554809
Manufacturer/ Factory:	Bitwave Pte Ltd
Address:	11 Serangoon North Ave 5, #05-03, Singapore 554809

### 5.2 General Description of E.U.T.

Product Name:	Bluetooth Helmet Communicator
Model No.:	EXO-COM
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Chip Antenna
Antenna gain:	1.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 700mAh
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



#### 5.3 Test environment and mode, and test samples plans

#### **Operating Environment:**

operating Environment.	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

### 5.4 Description of Support Units

The EUT has been tested as an independent unit.

### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

## 5.6 Additions to, deviations, or exclusions from the method

No

### 5.7 Laboratory Facility

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

#### • FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

#### • ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### • A2LA - Registration No.: 4346.01

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. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>



## 5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

- Bao'an District, Shenzhen, Guangdong, China
- Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

## 5.9 Test Instruments list

Radiated Emission:				Cal Data	Col Duo data
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
3m SAC	SAEMU	911 011 011	900	07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Llava Antonna			1005	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
	Dahda 8 Cabusara		9429621/010	07-21-2017	07-20-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	\ \	/ersion: 6.110919	0



## 6 Test results and Measurement Data

## 6.1 Antenna requirement:

FCC Dort 15 C Spatian 15 202 (247(b))
FCC Part 15 C Section 15.203 /247(b)
be designed to ensure that no antenna other than that furnished by the used with the device. The use of a permanently attached antenna or of an e coupling to the intentional radiator, the manufacturer may design the unit an be replaced by the user, but the use of a standard antenna jack or ibited. ower limit specified in paragraph (b) of this section is based on the use of ains that do not exceed 6 dBi. Except as shown in paragraph (c) of this nnas of directional gain greater than 6 dBi are used, the conducted output radiator shall be reduced below the stated values in paragraphs (b)(1), ction, as appropriate, by the amount in dB that the directional gain of the
nal antenna which cannot replace by end-user, the best-case gain of the



## 6.2 Conducted Output Power

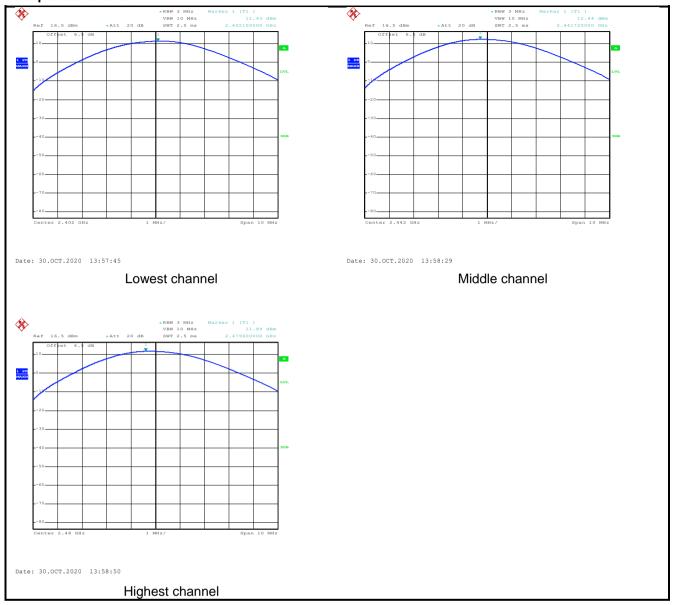
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### **Measurement Data:**

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	11.43		
Middle	12.44	30.00	Pass
Highest	11.89		

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#### Test plot as follows:





## 6.3 Occupy Bandwidth

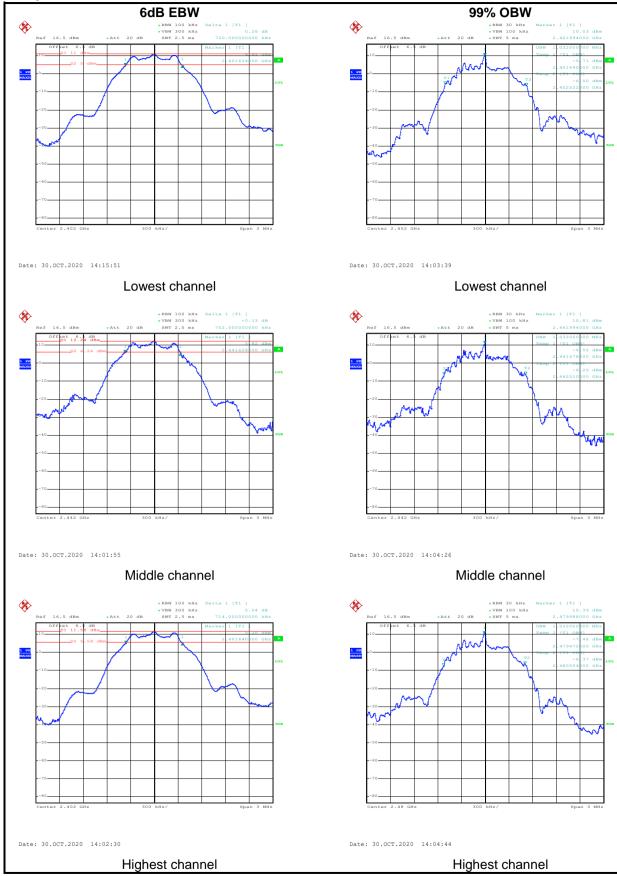
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table				
	Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.720		
Middle	0.702	>500	Pass
Highest	0.714		
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.032		
Middle	1.032	N/A	N/A
Highest	1.032		

## <u>CCIS</u>

#### Test plot as follows:





## 6.4 Power Spectral Density

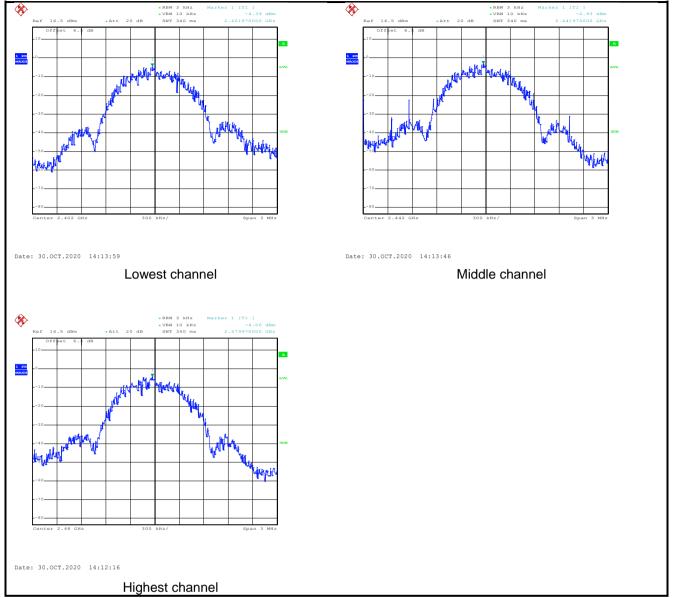
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8 dBm/3kHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

#### **Measurement Data:**

Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-4.39		
Middle	-2.93	8.00	Pass
Highest	-4.00		



#### Test plots as follow:



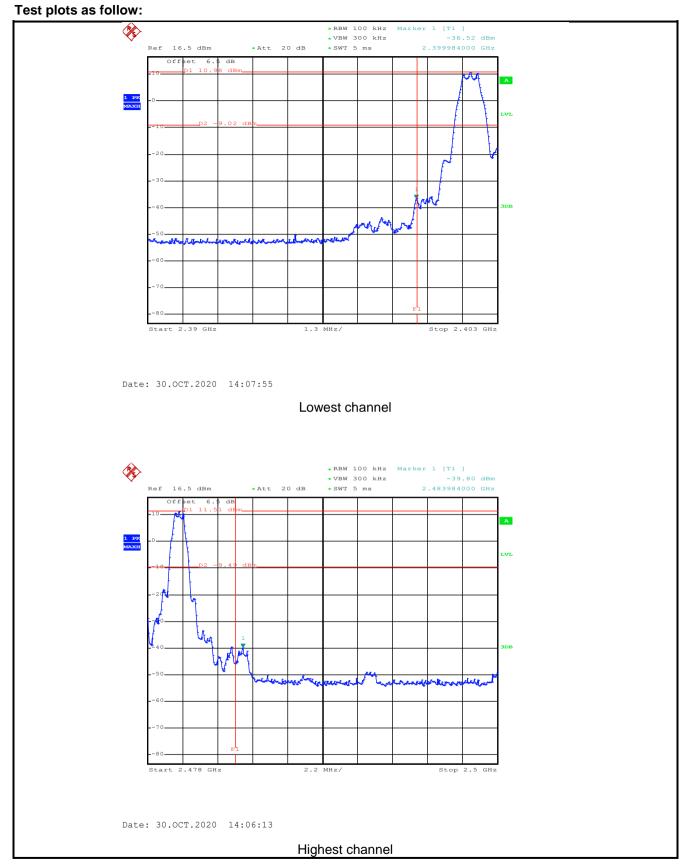


## 6.5 Band Edge

#### 6.5.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

## ----

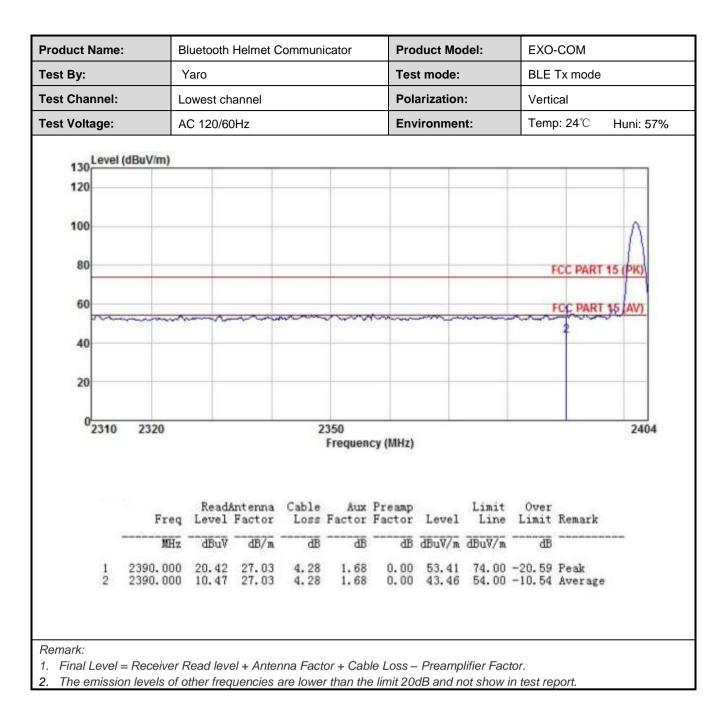




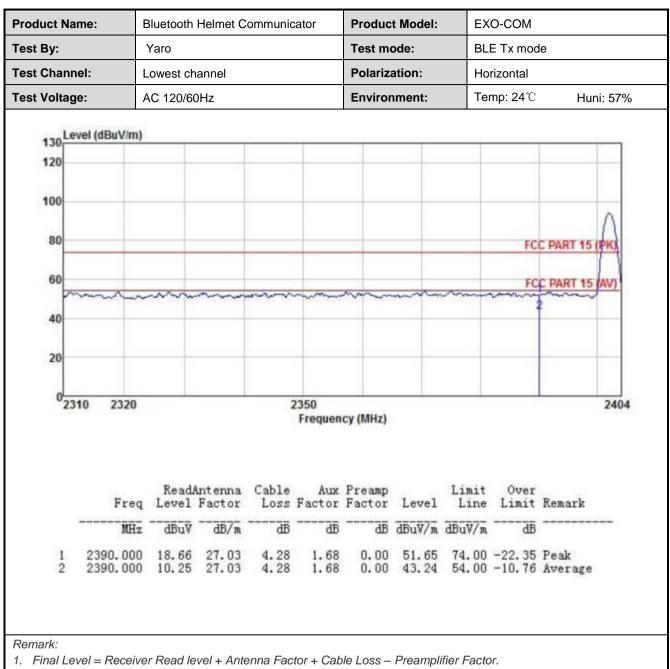
#### 6.5.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	C Section 15.2	05 and 15.209				
Test Frequency Range:	2310 MHz to 2	2390 MHz and	2483.5MHz to 2	2500 N	ЛНz		
Test Distance:	3m						
Receiver setup:	Frequency	Detector	RBW	VBW		Remark	
	Above 1GHz	Peak	1MHz		<u>MHz</u>	Peak Value	
		RMS			ИНz	Average Value Remark	
Limit:	Frequer		<u>mit (dBuV/m @:</u> 54.00	500)	Δ	verage Value	
	Above 10	GHz	74.00			Peak Value	
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-</li> </ol>					ed 360 degrees e-receiving h-height antenna meters above eld strength. ana are set to d to its worst a 1 meter to 4 to 360 degrees action and D dB lower than the peak values ons that did not	
Test setup:		urntable)	Horn Antenna 3m 4 Reference Plane	Anterna Tor	wer		
Test Instruments:	Refer to section	on 5.9 for deta	ls				
Test mode:	Refer to section	on 5.3 for deta	ls				
Test results:	Passed						







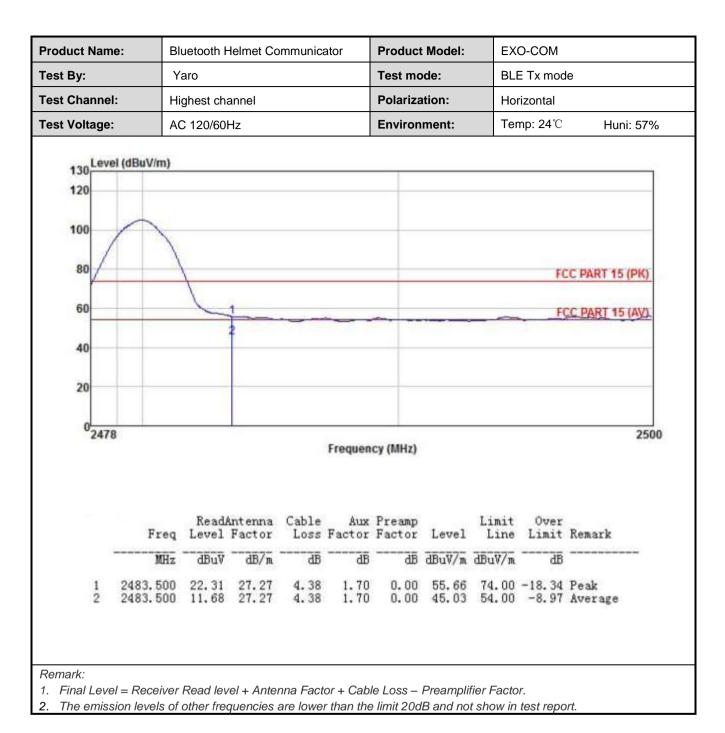


2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



roduct Name:	Bluetooth Helmet Communicator			Proc	duct Mod	el:	EXO-C	COM		
est By:	Yaro				Test	mode:		BLE T	x mode	
est Channel:	Highest	channel			Pola	rization:		Vertical		
est Voltage:	AC 120/	AC 120/60Hz		Envi	ironment	:	Temp: 24°C Huni		Huni: 57%	
130 Level (dBuV 120 100 80 60		1							CC PART	
40 20 0 2478										2500
20				Frequen	cy (MHz)	1				2500
20 0 2478	Read Freq Level	Antenna Factor	Cable Loss	Aux	Preamp	Level	Limit Line	Over Limit	Remark	
20 0 2478	Read Freq Level MHz dBuV	Factor	Cable Loss dB	Aux Factor	Preamp Factor	Level dBuV/m	Line	Over Limit dB	Remark	







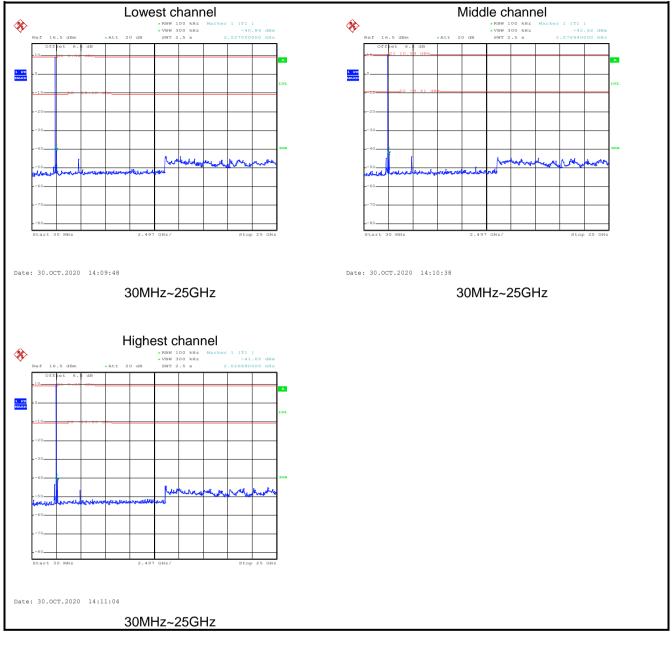
## 6.6 Spurious Emission

#### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

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#### Test plot as follows:





#### 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.	.205	5 and 15.209			
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency Detector RBW			VB	W	Remark	
·	30MHz-1GHz Quasi-p		ak	120KHz	300	<b>≺</b> Hz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz		Peak Value
	RMS RMS		S 1MHz 3M		¥		
Limit:	Frequency Limit (dBuV/m @3m) Remark					Remark	
	30MHz-88M	Hz		40.0		Quasi-peak Value	
	88MHz-216N			43.5		Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value
	960MHz-1G	Hz		54.0			Quasi-peak Value
	Above 1GF	lz –		54.0			Average Value
Test Procedure:				74.0			Peak Value table 0.8m(below
	<ol> <li>The table of highest rad</li> <li>The EUT antenna, we tower.</li> <li>The antenna the ground Both horized make the n</li> <li>For each so case and the meters and to find the n</li> <li>The test-rest specified E</li> <li>If the emission the limit sp of the EUT have 10 dE</li> </ol>	was rotated liation. was set 3 which was m ha height is to determ ontal and w neasureme suspected hen the an d the rota ta maximum m eceiver sys Bandwidth w sion level o ecified, the would be B margin wo	d 36 3 me moul is va nine verti ent. emi nten able read vsten with of th en te rep ould	50 degrees t eters away i nted on the t aried from o the maximu ical polarizat ission, the E ina was turned ling. n was turned ling. n was set Maximum H be EUT in pe esting could b orted. Other d be re-tested	o deter from the top of a ne met um vali- tions of EUT was do he from 0 to Pea lold Mo ak moo- pe stop wise the d one b	mine ne inten varial er to f ue of the a as arra eights degre k Det de. de was ped ar e emis y one	a 3 meter camber. the position of the erference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 set to 360 degrees tect Function and a 10 dB lower than nd the peak values ssions that did not using peak, quasi- reported in a data
Test setup:		3m <	- =			Antenna Search Antenn Test eiver –	

## CCIS

	AE EUT Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol> <li>Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.</li> </ol>



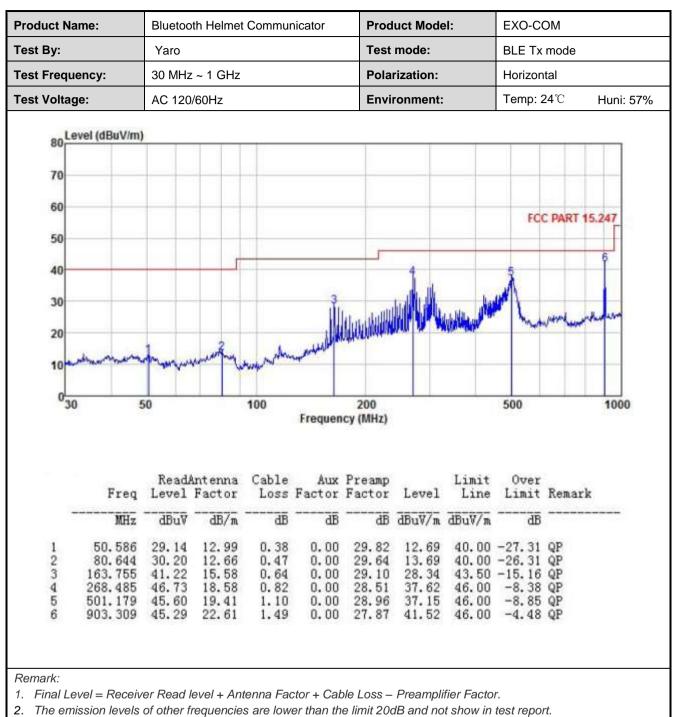
#### Measurement Data (worst case):

#### Below 1GHz:

roduct Name	Bluetoo	Bluetooth Helmet Communicator				Product Model:			EXO-COM			
est By:	Yaro 30 MHz ~ 1 GHz AC 120/60Hz				Test	Test mode: Polarization: Environment:			BLE Tx mode Vertical Temp: 24°C Huni: 57%			
Test Frequency:					Pola							
est Voltage:					Envi							
80 Level ( 70 60 50 40 30 20	(dBuV/m)			m	honologia			u-dura Mar		PART 15.	247 6	
030	50		ntenna			200 cy (MHz) Preamp Factor	Level	Limit Line	500 Over	Remark	1000	
	MHz	dBuV	dB/m		dB	_	dBuV/m		dB			
2 3 1 4 2	35.005 46.016 21.976 68.485 40.611 03.309	36.52 33.30 36.50 31.78 32.90 41.40	12.60 12.96 10.99 18.58 20.07 22.61	0.34 0.38 0.57 0.82 1.26 1.49	0.00	29.95 29.85 29.38 28.51 28.81	19.51 16.79 18.68 22.67 25.42 37.63	40.00 40.00 43.50 46.00	-20.49 -23.21 -24.82 -23.33 -20.58	QP QP QP QP		

3. The Aux Factor is a notch filter switch box loss, this item is not used.





3. The Aux Factor is a notch filter switch box loss, this item is not used.



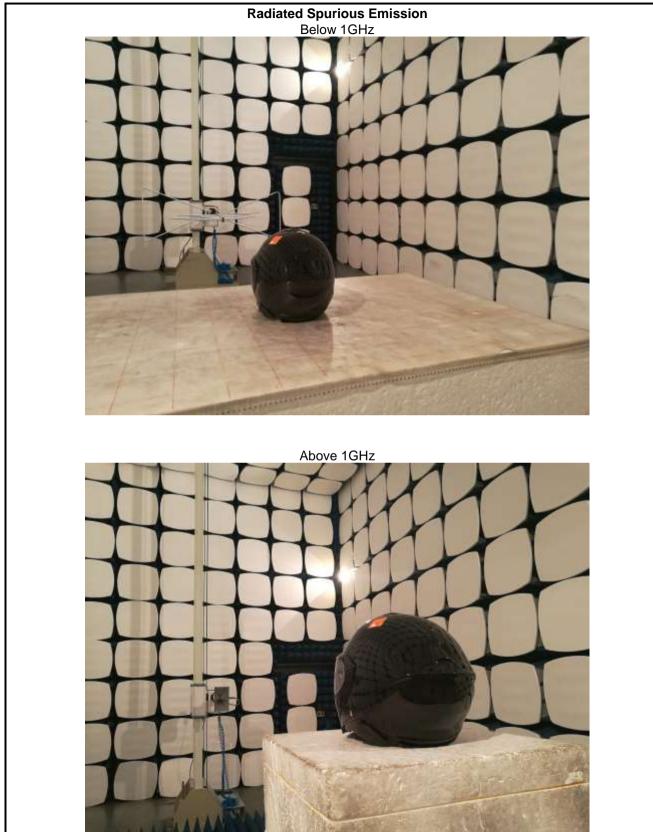
#### Above 1GHz

			Te		el: Lowest c						
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	49.52	30.78	6.80	2.44	41.81	47.73	74.00	-26.27	Vertical		
4804.00	50.05	30.78	6.80	2.44	41.81	48.26	74.00	-25.74	Horizontal		
Detector: Average Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	41.52	30.78	6.80	2.44	41.81	39.73	54.00	-14.27	Vertical		
4804.00	40.98	30.78	6.80	2.44	41.81	39.19	54.00	-14.81	Horizontal		
Test channel: Middle channel											
				1	or: Peak Val	he					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	50.52	30.96	6.86	2.47	41.84	48.97	74.00	-25.03	Vertical		
4884.00	51.39	30.96	6.86	2.47	41.84	49.84	74.00	-24.16	Horizontal		
Detector: Average Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	42.65	30.96	6.86	2.47	41.84	41.10	54.00	-12.90	Vertical		
4884.00	40.19	30.96	6.86	2.47	41.84	38.64	54.00	-15.36	Horizontal		
			le		el: Highest c						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	or: Peak Val Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	49.95	31.11	6.91	2.49	41.87	48.59	74.00	-25.41	Vertical		
4960.00	50.57	31.11	6.91	2.49	41.87	49.21	74.00	-24.79	Horizontal		
				Detector:	Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	43.62	31.11	6.91	2.49	41.87	42.26	54.00	-11.74	Vertical		
4960.00	42.59	31.11	6.91	2.49	41.87	41.23	54.00	-12.77	Horizontal		
Remark: 1. Final Le	vel =Receiv	ver Read lev	el + Anteni	na Factor +	Cable Loss	+ Aux Factor	– Preamplifie	r Factor.			

The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



## 7 Test Setup Photo







## 8 EUT Constructional Details







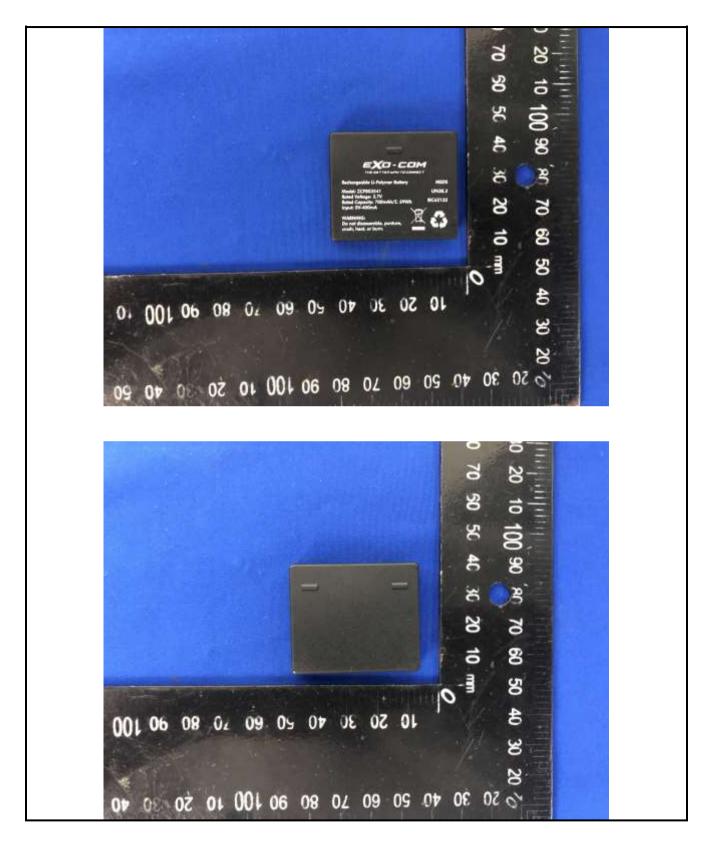




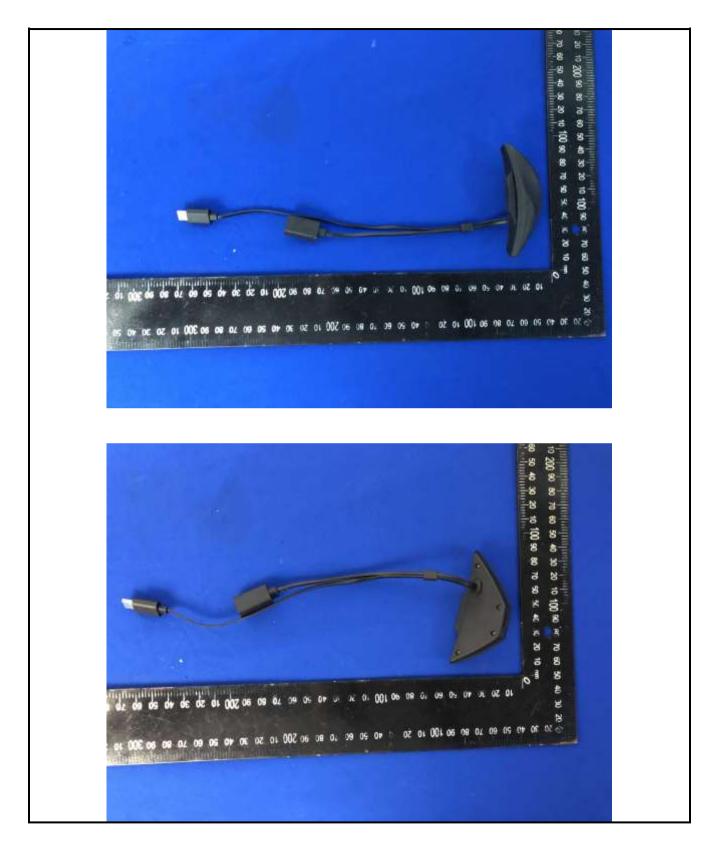




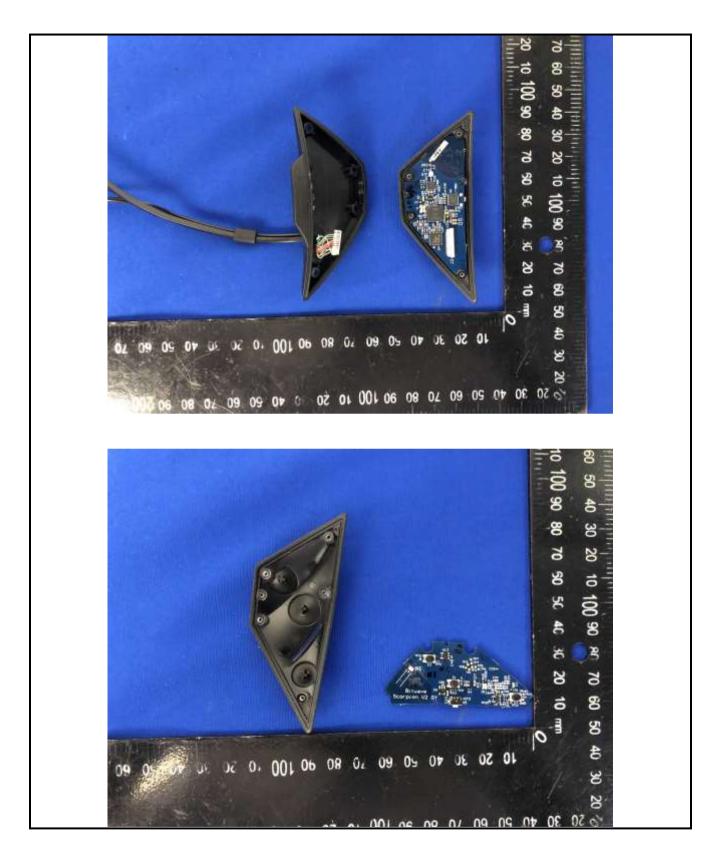








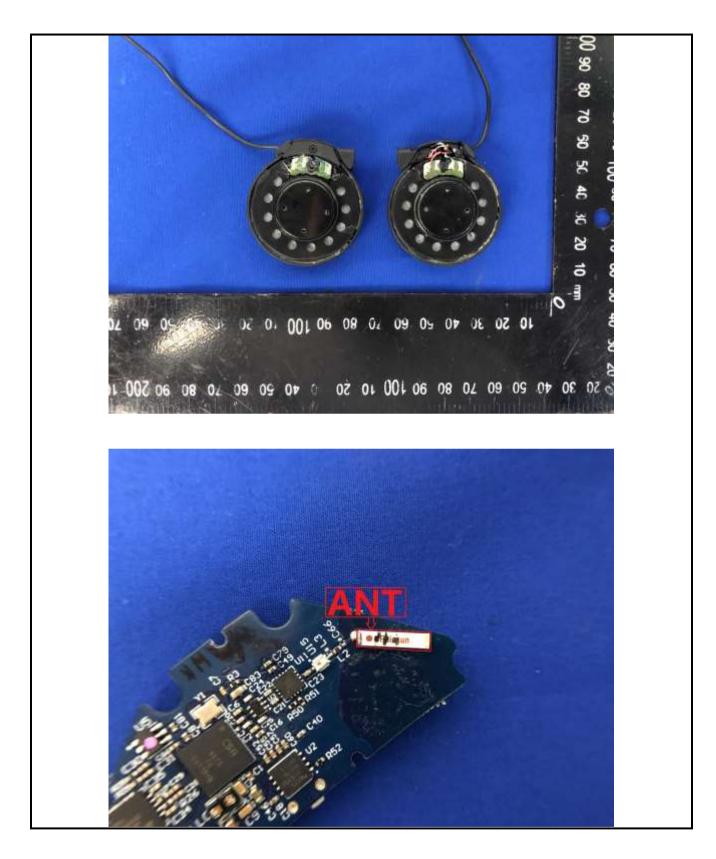












-----End of report-----