

Global United Technology Services Co., Ltd.

Report No.: GTS201701000062F01

FCC REPORT

Applicant: Striiv Inc.

Address of Applicant: 570 El Camino Real #200 Suite 220, Redwood City, California

94063, United States

Manufacturer: Striiv Inc.

Address of 570 El Camino Real #200 Suite 220, Redwood City, California

94063, United States Manufacturer:

Equipment Under Test (EUT)

Product Name: Swappable Wristband

Model No.: TOCHGM0008

FCC ID: ZXO-TOCHGM0008

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016 **Applicable standards:**

Date of sample receipt: February 09, 2017

Date of Test: February 10-14, 2017

February 15, 2017 Date of report issued:

Test Result: PASS *

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

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	February 15, 2017	Original

Prepared By:	Edward. Pan	Date:	February 15, 2017
	Project Engineer		
Check By:	Andy w	Date:	February 15, 2017
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4 2014.

4.1 Measurement Uncertainty

Test Item	Frequency Range Measurement Unce		Notes		
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)		
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)		
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)		
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB					
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.		



5 General Information

5.1 General Description of EUT

Product Name:	Swappable Wristband
Model No.:	TOCHGM0008
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Intergral Antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	DC 5.0V
	Or
	DC 3.7V 85mAh Li-ion Battery



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
			• !	• !	• !	• !	• !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	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, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	Х	Y	Z
Field Strength(dBuV/m)	87.22	89.54	88.69

5.3 Description of Support Units

Manufacturer	Description	Description Model S		FCC Approval
Emerson Network Power	USB Charger	A1299	N/A	FCC VoC

5.4 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Description of Support Units

None.

5.7 Other Information Requested by the Customer

None.



6 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017		
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017		
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017		
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017		
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017		
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017		
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017		

Conduc	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017		
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017		

Gen	General used equipment:											
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017						



7 Test results and Measurement Data

7.1 Antenna requirement

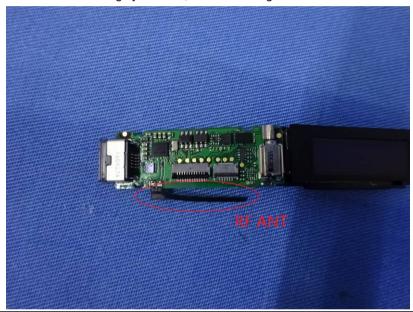
Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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.

EUT Antenna:

The antenna is integrity antenna, the best case gain of the antenna is 2.0dBi





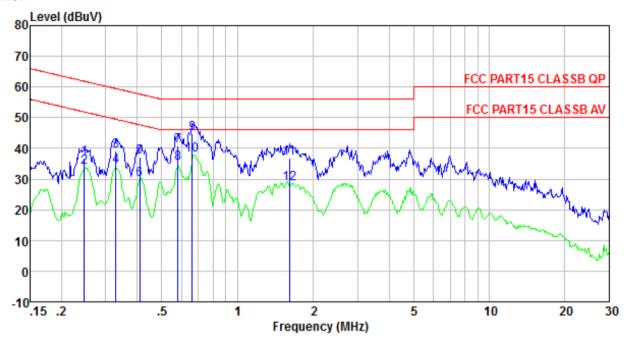
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto					
Limit:	(A411.)	Limit (c	dBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
Toot actual	* Decreases with the logarithn	i or the frequency.					
Test setup:	Reference Plane		-				
	Remark E.U.T Remark EU.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are	n network (L.I.S.N.). The dance for the measuri	nis provides a ing equipment.				
	LISN that provides a 50ohn termination. (Please refer to photographs).	n/50uH coupling imped	dance with 50ohm				
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details	i					
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

Measurement data:



Line:

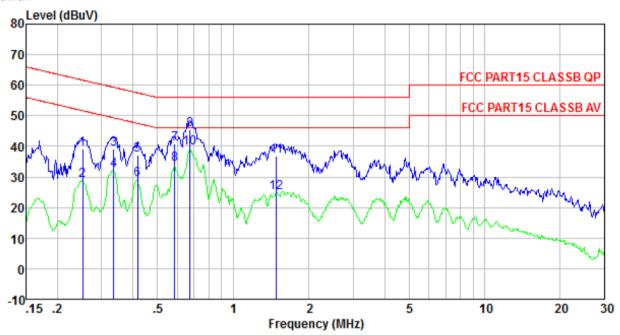


Freq MHz	Reading level dBuV	1ISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.25	36.21	0.44	0.11	36.76	61.86	-25.10	QP
0.25	33.37	0.44	0.11	33.92	51.86	-17.94	Average
0.33	38.66	0.43	0.10	39.19	59.49	-20.30	QP
0.33	33.60	0.43	0.10	34.13	49.49	-15.36	Average
0.41	36.55	0.41	0.11	37.07	57.68	-20.61	QP
0.41	29.19	0.41	0.11	29.71	47.68	-17.97	Average
0.58	40.36	0.32	0.12	40.80	56.00	-15.20	QP
0.58	34.65	0.32	0.12	35.09	46.00	-10.91	Average
0.66	44.21	0.29	0.13	44.63	56.00	-11.37	QP
0.66	37.55	0.29	0.13	37.97	46.00	-8.03	Average
1.61	36.54	0.21	0.14	36.89	56.00	-19.11	QP
1.61	28.03	0.21	0.14	28.38	46.00	-17.62	Average

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Neutral:



Freq MHz	Keading level dBuV	factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.25 0.25 0.34 0.34 0.42 0.42 0.59 0.67 0.67 1.49	38.69 28.48 38.67 31.65 36.57 28.64 40.32 33.66 45.03 38.97 36.56 24.66	0. 42 0. 42 0. 41 0. 41 0. 39 0. 28 0. 28 0. 25 0. 25 0. 20 0. 20	0.11 0.11 0.10 0.10 0.11 0.11 0.12 0.12	39. 22 29. 01 39. 18 32. 16 37. 07 29. 14 40. 72 34. 06 45. 41 39. 35 36. 89 24. 99	61. 69 51. 69 59. 31 49. 31 57. 51 47. 51 56. 00 46. 00 56. 00 46. 00	-22. 47 -22. 68 -20. 13 -17. 15 -20. 44 -18. 37 -15. 28 -11. 94 -10. 59 -6. 65 -19. 11 -21. 01	QP Average QP Average QP Average QP Average QP Average QP Average Average Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Radiated Emission Method

7.3	Radiated Emission Me	etnoa					
	Test Requirement:	FCC Part15 C S	Section 15.20	9			
	Test Method:	ANSI C63.10:20	013				
	Test Frequency Range:	30MHz to 25GH	Ηz				
	Test site:	Measurement D	Distance: 3m				
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark	
		30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value	
		Above 4015	Peak	1MHz	3MHz	Peak Value	
		Above 1GHz	Peak	1MHz 10Hz		Average Value	
	Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark	
	(Field strength of the fundamental signal)	2400MHz-24	483.5MHz	94.0	0	Average Value	
	Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark	
	(Spurious Emissions)	30MHz-88MHz		40.0		Quasi-peak Value	
	,	88MHz-216MHz		43.50		Quasi-peak Value	
		216MHz-960MHz 960MHz-1GHz		46.00 54.00		Quasi-peak Value	
				54.0 54.0		Quasi-peak Value Average Value	
		Above 1	IGHz -	74.0		Peak Value	
	Limit: (band edge)	harmonics, sha	II be attenuate to the genera	ed by at least al radiated em	50 dB belov	bands, except for w the level of the in Section 15.209,	
	Test setup:	Below 1GHz	EUT+		Antenna 4m >v	fier.	
		ADOVE IGHZ					



Report No.: GTS201701000062F01 < 1m ... 4m > EUT. Turn Table <150cm; Preamplifier-Receiver+ Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details

Measurement data:

Test results:

Pass



7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	90.31	27.58	5.39	34.01	89.27	114.00	-24.73	Vertical
2402.00	85.24	27.58	5.39	34.01	84.20	114.00	-29.80	Horizontal
2440.00	90.59	27.48	5.43	33.96	89.54	114.00	-24.46	Vertical
2440.00	84.68	27.48	5.43	33.96	83.63	114.00	-30.37	Horizontal
2480.00	89.66	27.52	5.47	33.92	88.73	114.00	-25.27	Vertical
2480.00	83.90	27.52	5.47	33.92	82.97	114.00	-31.03	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.61	27.58	5.39	34.01	79.57	94.00	-14.43	Vertical
2402.00	75.58	27.58	5.39	34.01	74.54	94.00	-19.46	Horizontal
2440.00	80.63	27.48	5.43	33.96	79.58	94.00	-14.42	Vertical
2440.00	74.09	27.48	5.43	33.96	73.04	94.00	-20.96	Horizontal
2480.00	79.66	27.52	5.47	33.92	78.73	94.00	-15.27	Vertical
2480.00	74.26	27.52	5.47	33.92	73.33	94.00	-20.67	Horizontal

NOTE: RBW 3MHz VBW 3MHz peak detector is for PK

value, RMS detector is for AV value



7.3.2 Spurious emissions

■ Below 1GHz

= Below 16112										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)		polarization		
36.25	29.66	11.20	0.62	30.06	11.42	40.00		Vertical		
53.32	28.55	11.93	0.80	29.97	11.31	40.00		Vertical		
95.76	28.52	11.35	1.16	29.72	11.31	43.50		Vertical		
167.82	37.18	8.33	1.67	29.33	17.85	43.50		Vertical		
278.07	34.37	12.82	2.26	29.85	19.60	46.00		Vertical		
383.93	32.39	15.15	2.78	29.57	20.75	46.00		Vertical		
32.41	30.14	11.25	0.58	30.09	11.88	40.00		Horizontal		
100.58	26.46	12.10	1.19	29.70	10.05	43.50		Horizontal		
155.91	32.50	7.85	1.60	29.38	12.57	43.50		Horizontal		
216.02	32.64	10.78	1.93	29.36	15.99	43.50		Horizontal		
306.75	35.58	13.62	2.39	29.96	21.63	46.00		Horizontal		
434.07	28.69	16.17	3.02	29.43	18.45	46.00		Horizontal		



■ Above 1GHz

Peak value:

I cak value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	37.16	31.78	8.60	32.09	45.45	74.00	-28.55	Vertical
7206.00	31.73	36.15	11.65	32.00	47.53	74.00	-26.47	Vertical
9608.00	31.38	37.95	14.14	31.62	51.85	74.00	-22.15	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.41	31.78	8.60	32.09	49.70	74.00	-24.30	Horizontal
7206.00	33.47	36.15	11.65	32.00	49.27	74.00	-24.73	Horizontal
9608.00	30.79	37.95	14.14	31.62	51.26	74.00	-22.74	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	uc.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.00	31.78	8.60	32.09	34.29	54.00	-19.71	Vertical
7206.00	20.43	36.15	11.65	32.00	36.23	54.00	-17.77	Vertical
9608.00	19.52	37.95	14.14	31.62	39.99	54.00	-14.01	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.21	31.78	8.60	32.09	38.50	54.00	-15.50	Horizontal
7206.00	22.60	36.15	11.65	32.00	38.40	54.00	-15.60	Horizontal
9608.00	19.24	37.95	14.14	31.62	39.71	54.00	-14.29	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	:		Test channel: Middle								
Peak value:				•							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4880.00	36.54	31.85	8.67	32.12	44.94	74.00	-29.06	Vertical			
7320.00	31.32	36.37	11.72	31.89	47.52	74.00	-26.48	Vertical			
9760.00	31.02	38.35	14.25	31.62	52.00	74.00	-22.00	Vertical			
12200.00	*					74.00		Vertical			
14640.00	*					74.00		Vertical			
4880.00	40.67	31.85	8.67	32.12	49.07	74.00	-24.93	Horizontal			
7320.00	33.01	36.37	11.72	31.89	49.21	74.00	-24.79	Horizontal			
9760.00	30.37	38.35	14.25	31.62	51.35	74.00	-22.65	Horizontal			
12200.00	*					74.00		Horizontal			
14640.00	*					74.00		Horizontal			
Average val	ue:						•	•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4880.00	25.51	31.85	8.67	32.12	33.91	54.00	-20.09	Vertical			
7320.00	20.10	36.37	11.72	31.89	36.30	54.00	-17.70	Vertical			
9760.00	19.23	38.35	14.25	31.62	40.21	54.00	-13.79	Vertical			
12200.00	*					54.00		Vertical			
14640.00	*					54.00		Vertical			
4880.00	29.66	31.85	8.67	32.12	38.06	54.00	-15.94	Horizontal			
7320.00	22.23	36.37	11.72	31.89	38.43	54.00	-15.57	Horizontal			
9760.00	18.89	38.35	14.25	31.62	39.87	54.00	-14.13	Horizontal			
12200.00	*					54.00		Horizontal			
		i e	1	i				1			

Remark:

14640.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

Horizontal

54.00



Test channel	nnel: Highest							
Peak value:				<u>'</u>				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.86	31.93	8.73	32.16	44.36	74.00	-29.64	Vertical
7440.00	30.87	36.59	11.79	31.78	47.47	74.00	-26.53	Vertical
9920.00	30.62	38.81	14.38	31.88	51.93	74.00	-22.07	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.86	31.93	8.73	32.16	48.36	74.00	-25.64	Horizontal
7440.00	32.50	36.59	11.79	31.78	49.10	74.00	-24.90	Horizontal
9920.00	29.90	38.81	14.38	31.88	51.21	74.00	-22.79	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	24.99	31.93	8.73	32.16	33.49	54.00	-20.51	Vertical
7440.00	19.75	36.59	11.79	31.78	36.35	54.00	-17.65	Vertical
9920.00	18.92	38.81	14.38	31.88	40.23	54.00	-13.77	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.07	31.93	8.73	32.16	37.57	54.00	-16.43	Horizontal
7440.00	21.83	36.59	11.79	31.78	38.43	54.00	-15.57	Horizontal
9920.00	18.53	38.81	14.38	31.88	39.84	54.00	-14.16	Horizontal
12400.00	*					54.00		Horizontal

Remark:

14880.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal

54.00



7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

	,
Test channel:	Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	40.30	27.59	5.38	30.18	43.09	74.00	-30.91	Horizontal
2400.00	56.72	27.58	5.39	30.18	59.51	74.00	-14.49	Horizontal
2390.00	40.61	27.59	5.38	30.18	43.40	74.00	-30.60	Vertical
2400.00	58.48	27.58	5.39	30.18	61.27	74.00	-12.73	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	31.44	27.59	5.38	30.18	34.23	54.00	-19.77	Horizontal
2400.00	42.52	27.58	5.39	30.18	45.31	54.00	-8.69	Horizontal
2390.00	31.20	27.59	5.38	30.18	33.99	54.00	-20.01	Vertical
2400.00	43.92	27.58	5.39	30.18	46.71	54.00	-7.29	Vertical

Ī	Test channel:	Highest channel
- 1		1 3

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	42.10	27.53	5.47	29.93	45.17	74.00	-28.83	Horizontal
2500.00	41.76	27.55	5.49	29.93	44.87	74.00	-29.13	Horizontal
2483.50	42.51	27.53	5.47	29.93	45.58	74.00	-28.42	Vertical
2500.00	42.52	27.55	5.49	29.93	45.63	74.00	-28.37	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.23	27.53	5.47	29.93	37.30	54.00	-16.70	Horizontal
2500.00	32.60	27.55	5.49	29.93	35.71	54.00	-18.29	Horizontal
2483.50	35.23	27.53	5.47	29.93	38.30	54.00	-15.70	Vertical
2500.00	32.31	27.55	5.49	29.93	35.42	54.00	-18.58	Vertical

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



7.4 20dB Occupy Bandwidth

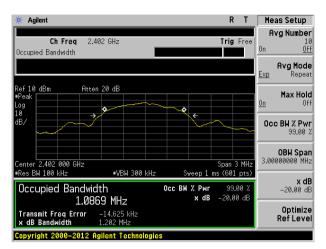
Test Requirement:	FCC Part15 C Section 15.249/15.215		
Test Method:	ANSI C63.10:2013		
Limit:	Operation Frequency range 2400MHz~2483.5MHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

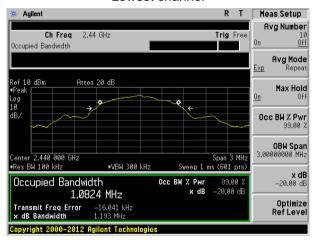
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.202	Pass
Middle	1.193	Pass
Highest	1.199	Pass

Test plot as follows:

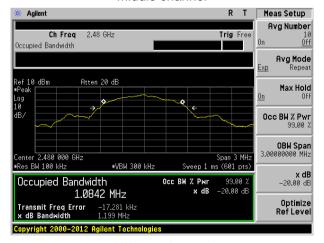




Lowest channel



Middle channel

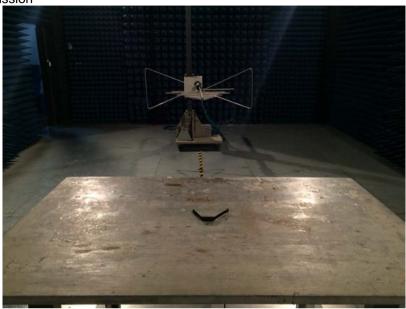


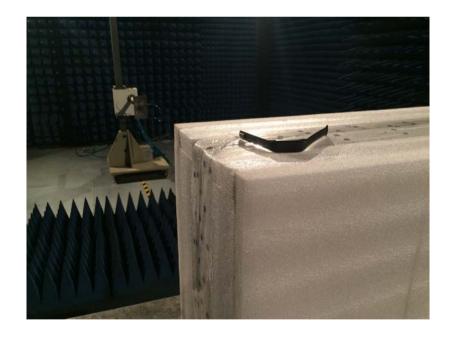
Highest channel



8 Test Setup Photo

Radiated Emission







Conducted Emission





9 EUT Constructional Details





















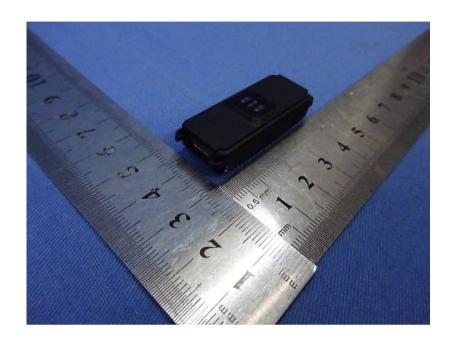


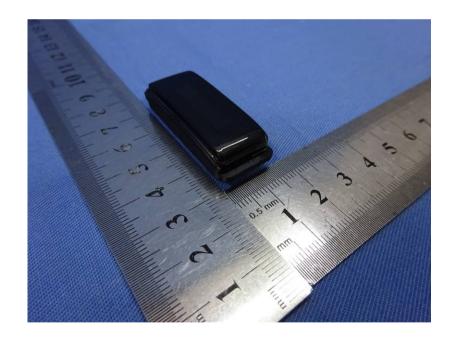




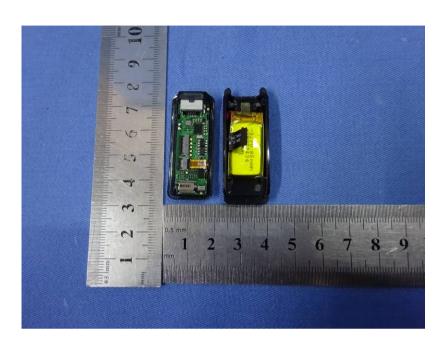


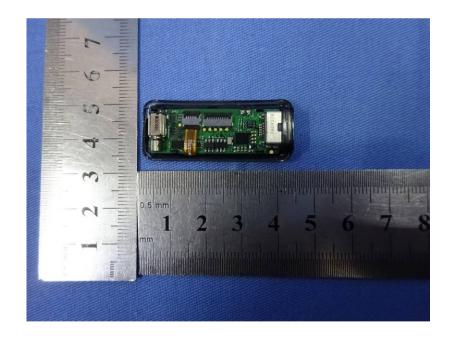






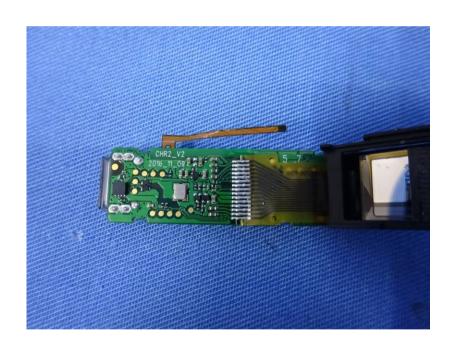




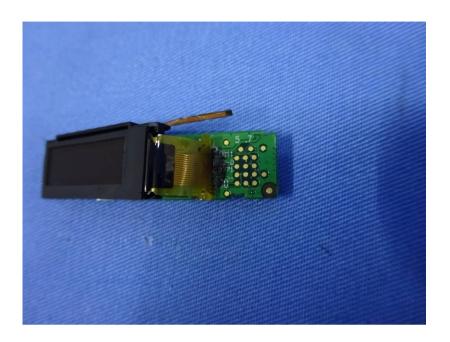














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