

TEST REPORT

FCC ID: 2ARKE-1208

Product: HD Conference Camera with Wireless Speakerphone

Model No.: AUCTOPUS I-1208

Additional Model: AUCTOPUS I-1200, AUCTOPUS I-1300, AUCTOPUS I-1600,
AUCTOPUS I-1700, AUCTOPUS I-1800, AUCTOPUS I-1900 HD Conference
Camera.AUCTOPUS I-1308, AUCTOPUS I-1608, AUCTOPUS I-1708,
AUCTOPUS I-1808, AUCTOPUS I-1908

Trade Mark:  INNOTRIK 音络  AUCTOPUS®

Report No.: TCT180808E020

Issued Date: Dec. 26, 2018

Issued for:

Shenzhen Innotrik Technology Co., Ltd
Room 502 to 504, Deguantiing Business Center, No.88 Xin'an 3rd, Dalang
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Issued By:

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Appendix A: Photographs of Test Setup

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1. Test Certification

Product:	HD Conference Camera with Wireless Speakerphone
Model No.:	AUCTOPUS I-1208
Additional Model No.:	AUCTOPUS I-1200, AUCTOPUS I-1300, AUCTOPUS I-1600, AUCTOPUS I-1700, AUCTOPUS I-1800, AUCTOPUS I-1900 HD Conference Camera.AUCTOPUS I-1308, AUCTOPUS I-1608, AUCTOPUS I-1708, AUCTOPUS I-1808, AUCTOPUS I-1908
Trade Mark:	 INNOTRIK 音络®  AUCTOPUS®
Applicant:	Shenzhen Innotrik Technology Co., Ltd
Address:	Room 502 to 504, Deguantiing Business Center, No.88 Xin'an 3rd, Dalang Community, Xin'an Street, Shenzhen, China
Manufacturer:	Shenzhen Innotrik Technology Co., Ltd
Address:	Room 502 to 504, Deguantiing Business Center, No.88 Xin'an 3rd, Dalang Community, Xin'an Street, Shenzhen, China
Date of Test:	Aug. 09, 2018 – Dec. 25, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Date: Dec. 25, 2018

Brews Xu

Reviewed By:



Date: Dec. 26, 2018

Approved By:



Tomsin

Date: Dec. 26, 2018

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	HD Conference Camera with Wireless Speakerphone
Model No.:	AUCTOPUS I-1208
Additional Model No.:	AUCTOPUS I-1200, AUCTOPUS I-1300, AUCTOPUS I-1600, AUCTOPUS I-1700, AUCTOPUS I-1800, AUCTOPUS I-1900 HD Conference Camera. AUCTOPUS I-1308, AUCTOPUS I-1608, AUCTOPUS I-1708, AUCTOPUS I-1808, AUCTOPUS I-1908
Trade Mark:	 INNOTRIK 音络  AUCTOPUS®
Operation Frequency:	2406MHz - 2474MHz
Number of Channel:	18
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.
Note :	The main test model AUCTOPUS I-1208 is a product consisting of SPEAKERPHONE part and CAMERA part, and SPEAKERPHONE part test report is report No.: TCT180808E020, CAMERA part test report is report No.: TCT180905E006.

Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2406MHz	7	2430MHz	13	2454MHz
2	2410MHz	8	2434MHz	14	2458MHz
3	2414MHz	9	2438MHz	15	2462MHz
4	2418MHz	10	2442MHz	16	2466MHz
5	2422MHz	11	2446MHz	17	2470MHz
6	2426MHz	12	2450MHz	18	2474MHz

Remark: Channel 1, 10 and 18 are selected to perform the tests.

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	2406MHz
The middle channel	2442MHz
The Highest channel	2474MHz

4. General Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel
<p>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.</p>	

4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

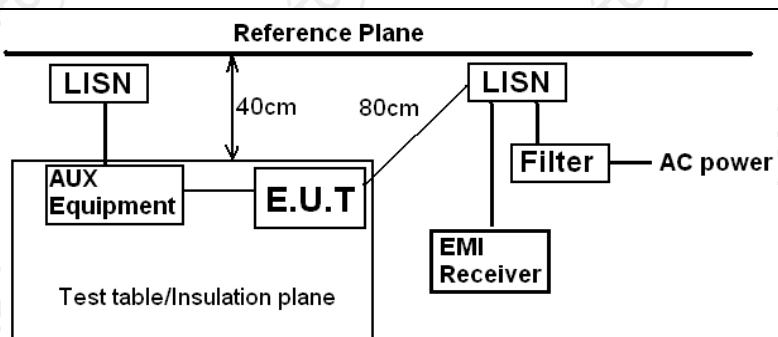
6. Test Results and Measurement Data

6.1. 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.	
E.U.T Antenna:	
The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 3dBi.	
	Antenna

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	 <p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>LISN</p> <p>Filter</p> <p>AC power</p> <p>EMI Receiver</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Transmitting mode with modulation														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 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 Result:	PASS														

6.2.2. Test Instruments

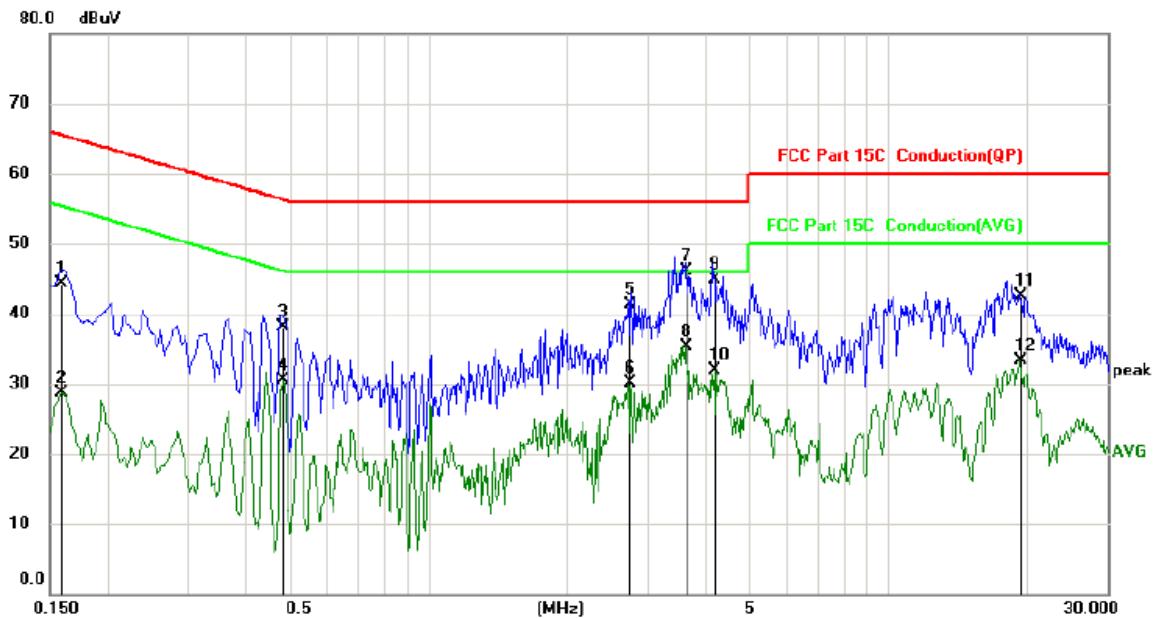
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101402	Jul. 17, 2019
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 20, 2019
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 16, 2019
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site

Phase: L1

Temperature: 25

Limit: FCC Part 15C Conduction(QP)

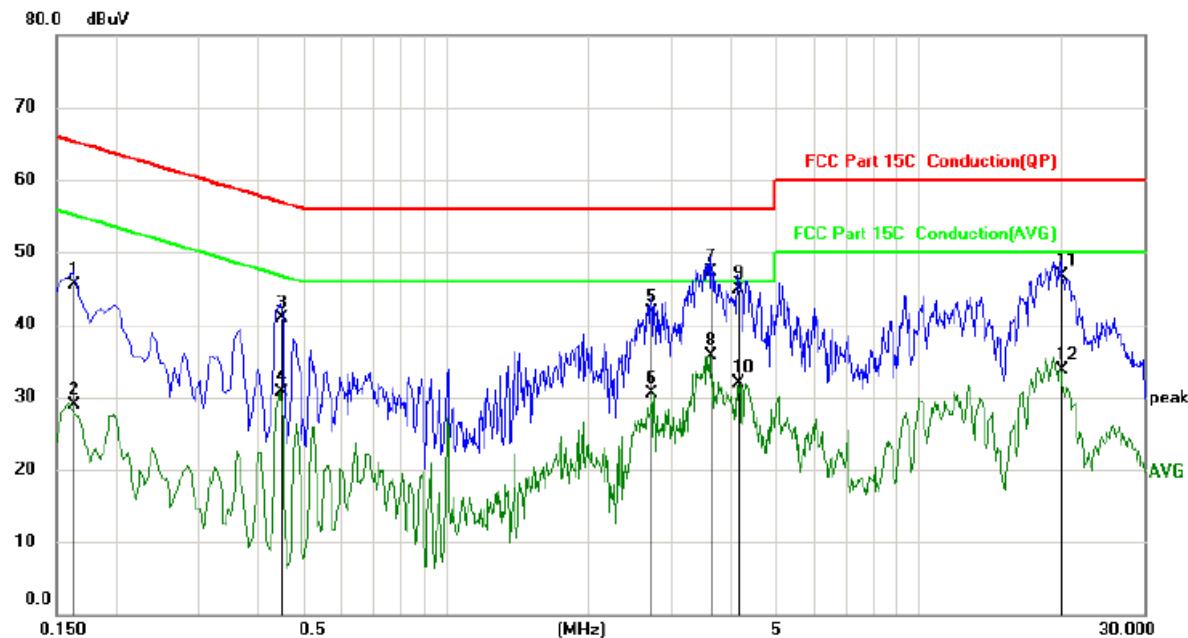
Power: AC 120V/60Hz

Humidity: 55 %

Mode: TX+Charging

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit			Over	Comment
						MHz	dBuV	dB	dBuV	dB
1		0.1590	34.00	10.22	44.22	65.52	-21.30		QP	
2		0.1590	18.47	10.22	28.69	55.52	-26.83		AVG	
3		0.4830	27.80	10.22	38.02	56.29	-18.27		QP	
4		0.4830	20.33	10.22	30.55	46.29	-15.74		AVG	
5		2.7285	30.81	10.45	41.26	56.00	-14.74		QP	
6		2.7285	19.66	10.45	30.11	46.00	-15.89		AVG	
7	*	3.6240	35.70	10.47	46.17	56.00	-9.83		QP	
8		3.6240	24.83	10.47	35.30	46.00	-10.70		AVG	
9		4.1910	34.50	10.47	44.97	56.00	-11.03		QP	
10		4.1910	21.46	10.47	31.93	46.00	-14.07		AVG	
11		19.3515	31.50	11.04	42.54	60.00	-17.46		QP	
12		19.3515	22.21	11.04	33.25	50.00	-16.75		AVG	

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site: **N** Phase: **N** Temperature: 25
 Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %
 Mode: TX+Charging

No.	Mk.	Freq. MHz	Reading Level dB μ V	Correct Factor dB	Measure- ment dB μ V	Limit dB	Over	Detector	Comment
1		0.1635	35.30	10.22	45.52	65.28	-19.76	QP	
2		0.1635	18.78	10.22	29.00	55.28	-26.28	AVG	
3		0.4470	30.70	10.22	40.92	56.93	-16.01	QP	
4		0.4470	20.39	10.22	30.61	46.93	-16.32	AVG	
5		2.7195	31.20	10.45	41.65	56.00	-14.35	QP	
6		2.7195	20.04	10.45	30.49	46.00	-15.51	AVG	
7	*	3.6285	36.90	10.47	47.37	56.00	-8.63	QP	
8		3.6285	25.33	10.47	35.80	46.00	-10.20	AVG	
9		4.1415	34.50	10.47	44.97	56.00	-11.03	QP	
10		4.1415	21.49	10.47	31.96	46.00	-14.04	AVG	
11		20.0670	35.70	11.07	46.77	60.00	-13.23	QP	
12		20.0670	22.61	11.07	33.68	50.00	-16.32	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

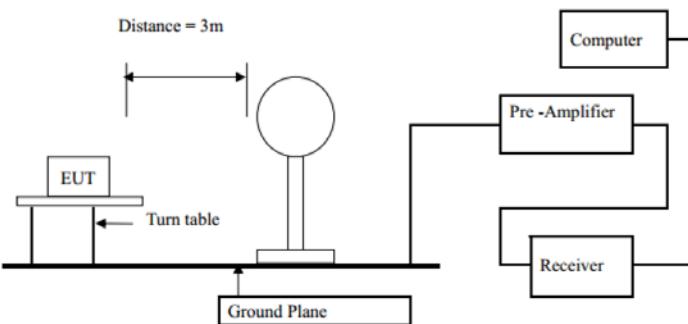
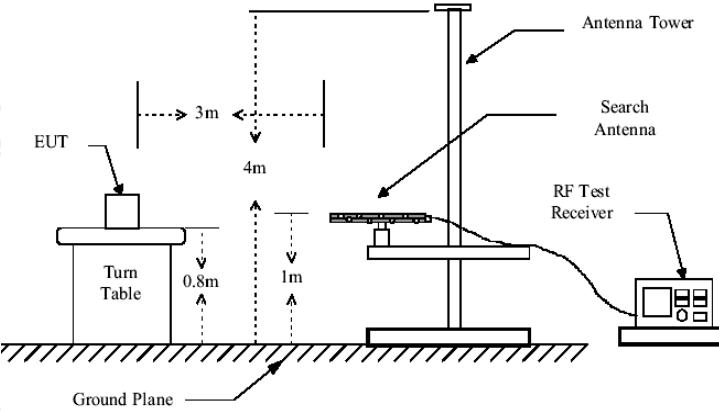
AVG =average

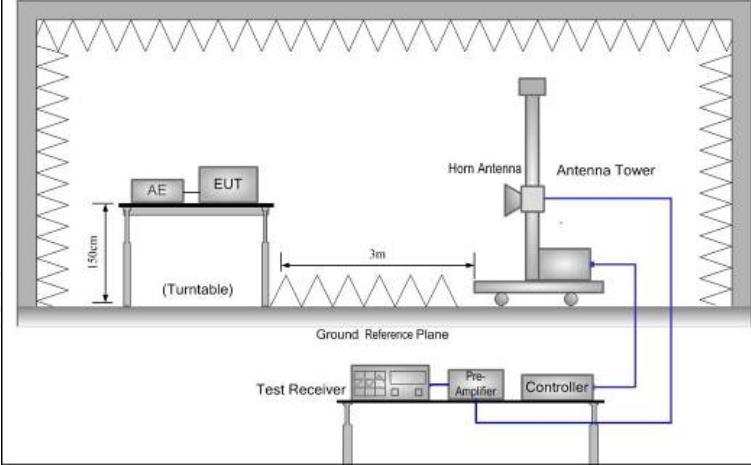
* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209/ Part 2 J Section 2.1053								
Test Method:	ANSI C63.10:2013								
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value				
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		Peak	1MHz	10Hz	Average Value				
Limit(Field strength of the fundamental signal):	Frequency	Limit (dBuV/m @3m)		Remark					
	2400MHz-2483.5MHz	94.00		Average Value					
		114.00		Peak Value					
Limit(Spurious Emissions):	Frequency	Limit (dBuV/m @3m)		Remark					
	0.009-0.490	2400/F(KHz)		Quasi-peak Value					
	0.490-1.705	24000/F(KHz)		Quasi-peak Value					
	1.705-30	30		Quasi-peak Value					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.								
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. 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 								

	<p>the measurement.</p> <p>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p>
<p>Test setup:</p>	<p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p>  <p>Above 1GHz</p> <p>(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)</p>

	
Test results:	PASS

6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 17, 2019
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Sep. 16, 2019
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 16, 2019
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Sep. 16, 2019
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 16, 2019
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2406	88.76(PK)	H	114/94	-25.24
2406	86.63(AV)	H	114/94	-7.37
2442	87.10(PK)	H	114/94	-26.90
2442	85.17(AV)	H	114/94	-8.83
2474	85.94(PK)	H	114/94	-28.06
2474	83.86(AV)	H	114/94	-10.14
2406	85.43(PK)	V	114/94	-28.57
2406	83.29(AV)	V	114/94	-10.71
2442	84.37(PK)	V	114/94	-29.63
2442	82.22(AV)	V	114/94	-11.78
2474	83.07(PK)	V	114/94	-30.93
2474	81.09(AV)	V	114/94	-12.91

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

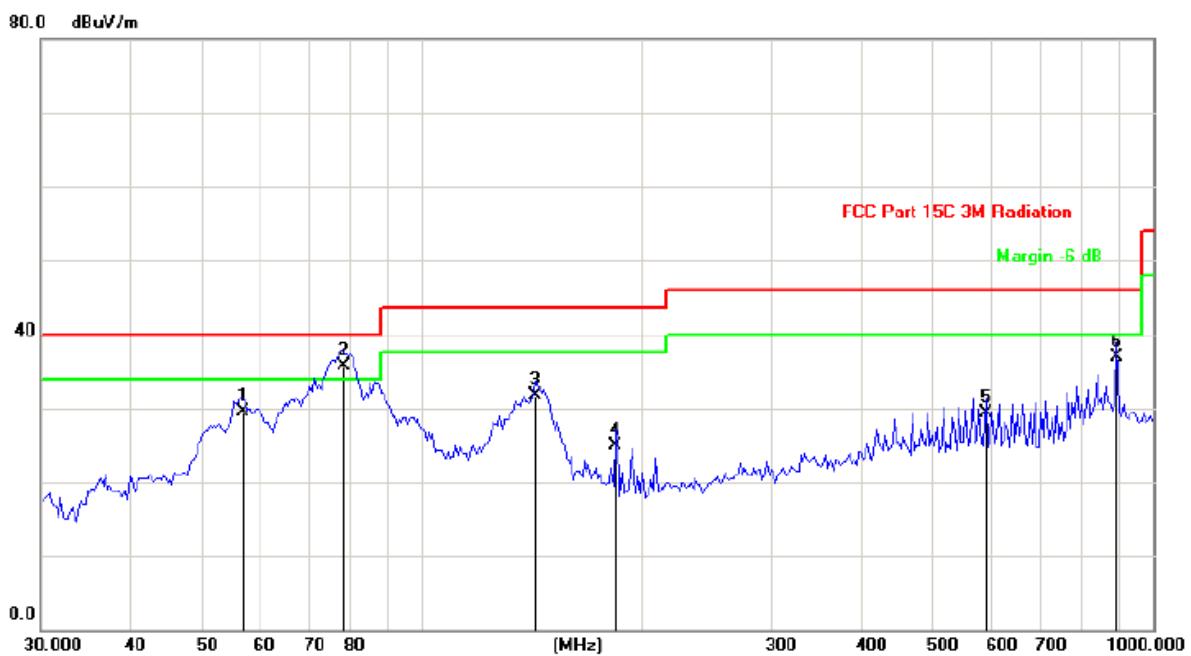
Frequency Range (30MHz-1GHz)

Horizontal:



Site				Polarization: <i>Vertical</i>				Temperature: 25	
Limit: FCC Part 15C 3M Radiation				Power: DC 3.7V				Humidity: 55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm
1		56.8644	41.10	-11.64	29.46	40.00	-10.54	QP	287.3
2	*	78.0143	52.20	-16.49	35.71	40.00	-4.29	QP	263.4
3		142.7692	47.80	-16.13	31.67	43.50	-11.83	QP	211.2
4		183.8660	39.60	-14.73	24.87	43.50	-18.63	QP	201.5
5		590.3509	35.40	-6.02	29.38	46.00	-16.62	QP	105.2
6		893.6557	40.20	-3.32	36.88	46.00	-9.12	QP	100.0

Vertical:



Site				Polarization: <i>Horizontal</i>				Temperature: 25		
Limit: FCC Part 15C 3M Radiation				Power: DC 3.7V				Humidity: 55 %		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree
1		40.5837	41.30	-10.99	30.31	40.00	-9.69	QP	100.0	58.40
2	*	52.6345	46.70	-10.63	36.07	40.00	-3.93	QP	100.0	102.1
3	!	76.3867	51.30	-16.32	34.98	40.00	-5.02	QP	100.0	78.20
4	!	145.8109	55.10	-16.19	38.91	43.50	-4.59	QP	100.0	183.4
5		225.4267	38.80	-13.28	25.52	46.00	-20.48	QP	100.0	285.5
6	!	602.9287	47.70	-5.78	41.92	46.00	-4.08	QP	100.0	146.0

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.

Above 1GHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4812.00	H	52.82	---	-3.94	48.88	---	74	54	-5.12
7218.00	H	47.53	---	0.52	48.05	---	74	54	-5.95
---	---	---	---	---	---	---	---	---	---
4812.00	V	48.24	---	-3.94	44.30	---	74	54	-9.70
7218.00	V	45.75	---	0.52	46.27	---	74	54	-7.73
---	---	---	---	---	---	---	---	---	---

Middle channel: 2442 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4884.00	H	53.13	---	-3.98	49.15	---	74	54	-4.85
7326.00	H	48.04	---	0.57	48.61	---	74	54	-5.39
---	---	---	---	---	---	---	---	---	---
4884.00	V	51.93	---	-3.98	47.95	---	74	54	-6.05
7326.00	V	50.21	---	0.57	50.78	---	74	54	-3.22
---	---	---	---	---	---	---	---	---	---

High channel: 2474 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4948.00	H	50.69	---	-3.98	46.71	---	74	54	-7.29
7422.00	H	49.18	---	0.57	49.75	---	74	54	-4.25
---	---	---	---	---	---	---	---	---	---
4948.00	V	51.36	---	-3.98	47.38	---	74	54	-6.62
7422.00	V	48.47	---	0.57	49.04	---	74	54	-4.96
---	---	---	---	---	---	---	---	---	---

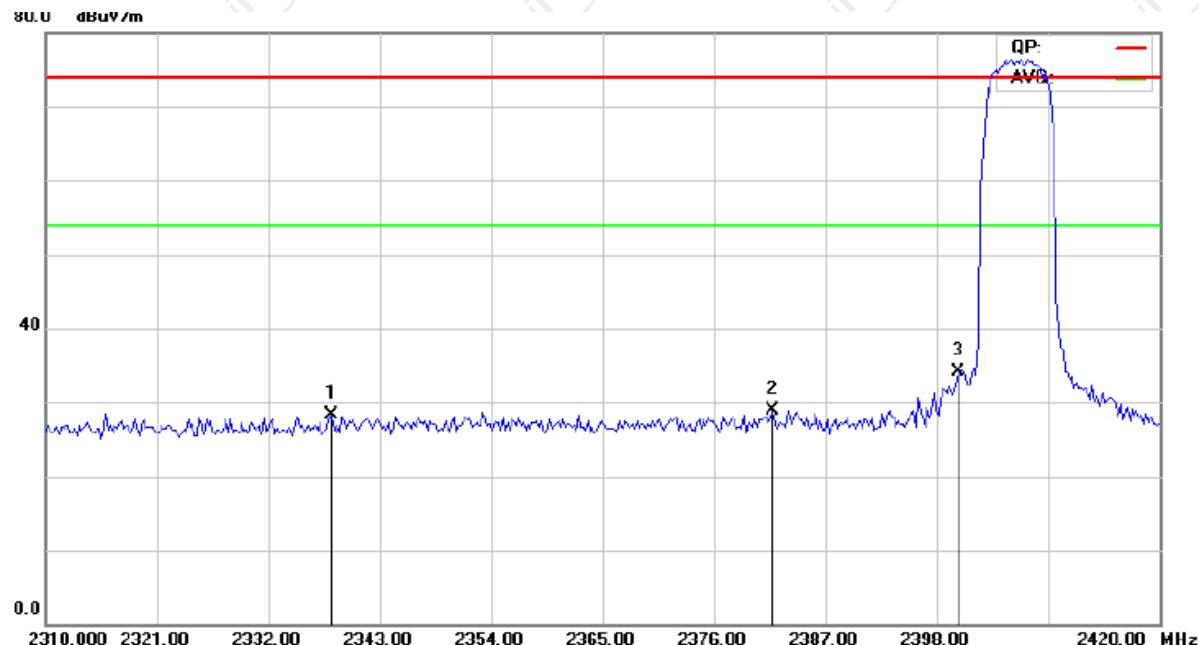
Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “---” in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Band Edge Requirement

Low Edge

Horizontal:



Site

Polarization: **Horizontal**

Temperature: 25 (C)

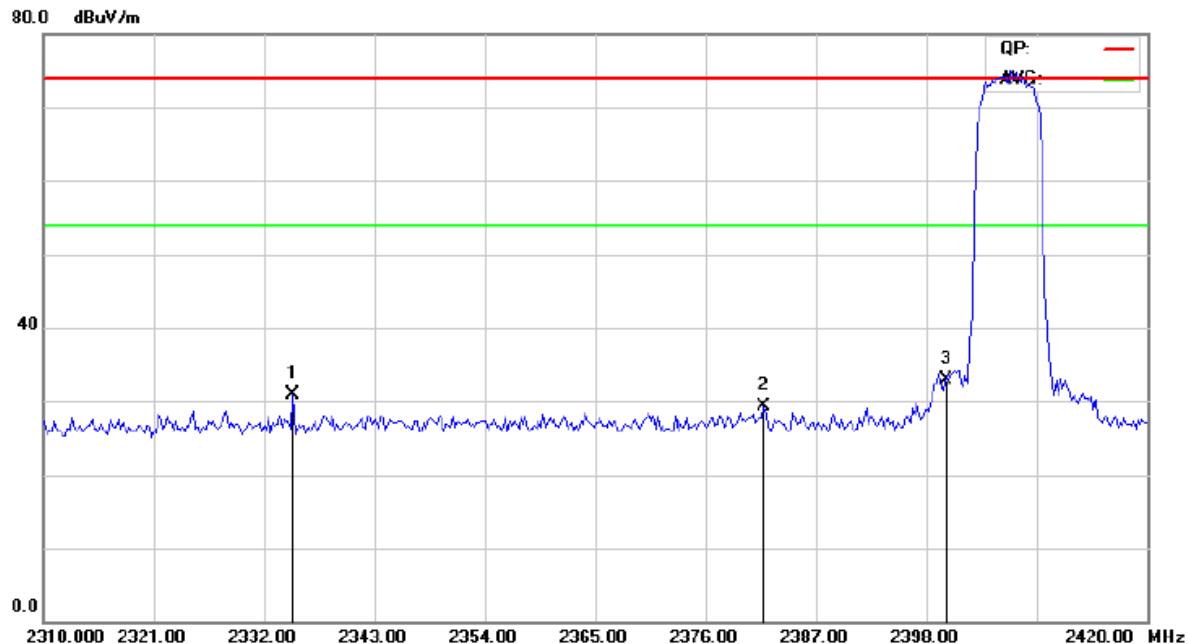
Limit: FCC part 15 (PK)

Power: DC 3.7V

Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1		2338.216	41.61	-13.33	28.28	74.00	-45.72	peak	
2		2381.864	42.03	-13.18	28.85	74.00	-45.15	peak	
3	*	2400.000	47.30	-13.12	34.18	74.00	-39.82	peak	

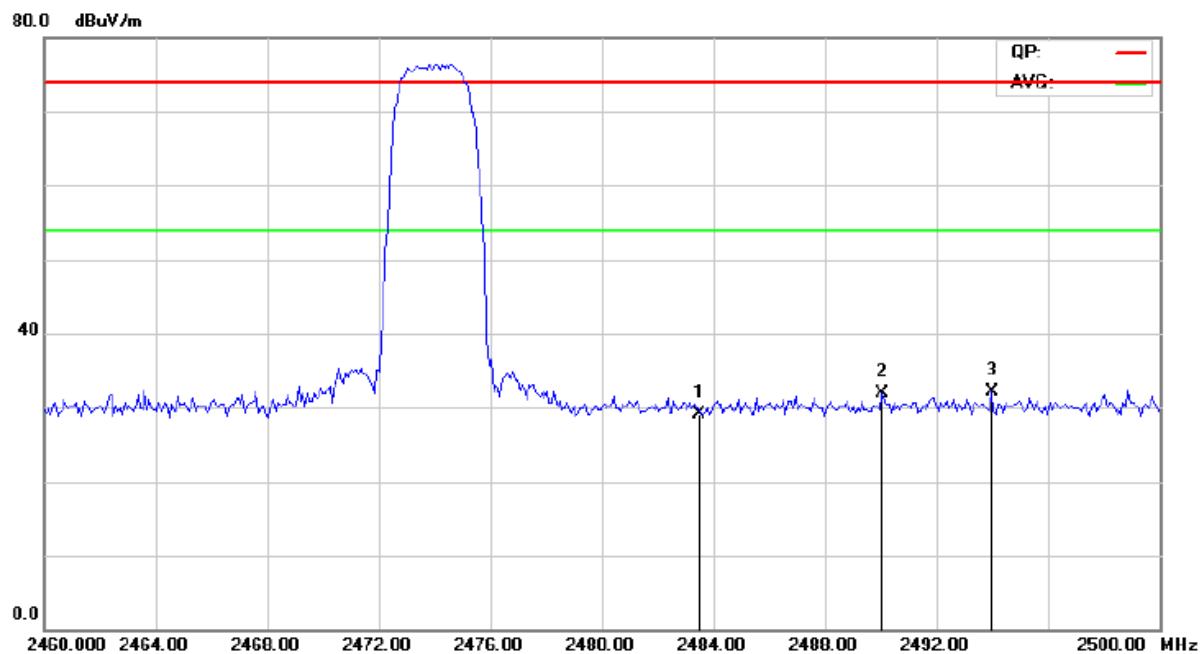
Vertical:



Site	Polarization: Vertical				Temperature: 25 (C)			
Limit: FCC part 15 (PK)	Power: DC 3.7V				Humidity: 55 %			
<hr/>								
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2334.910	44.13	-13.24	30.89	74.00	-43.11	peak	
2	2381.864	42.38	-13.08	29.30	74.00	-44.70	peak	
3	*	45.83	-13.02	32.81	74.00	-41.19	peak	

High Edge

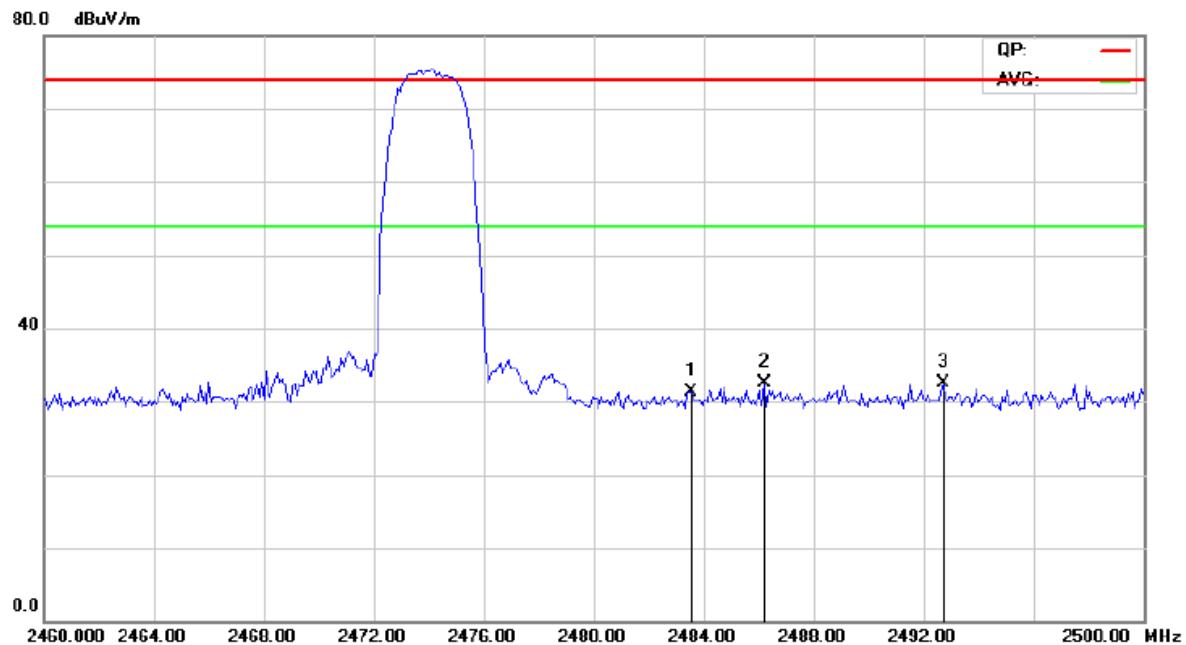
Horizontal:



Site Polarization: **Horizontal** Temperature: 25 (C)
Limit: FCC part 15 (PK) Power: DC 3.7V Humidity: 55 %

No.	Mk.	Reading		Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		Freq.	Level						
MHz		dBuV	dB			dBuV/m	dBuV/m	dB	
1	2483.500	41.98	-12.84	29.14	29.14	74.00	74.00	-44.86	peak
2	2490.060	44.73	-12.81	31.92	31.92	74.00	74.00	-42.08	peak
3 *	2493.988	44.81	-12.80	32.01	32.01	74.00	74.00	-41.99	peak

Vertical:



Site				Polarization: Vertical			Temperature: 25 (C)	
Limit: FCC part 15 (PK)				Power: DC 3.7V			Humidity: 55 %	
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	2483.500	44.07	-12.74	31.33	74.00	-42.67	peak	
2	2486.212	45.18	-12.73	32.45	74.00	-41.55	peak	
3 *	2492.705	45.16	-12.70	32.46	74.00	-41.54	peak	

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak/Average)(dB μ V/m)-(Peak/Average) limit (dB μ V/m)

20dB Occupied Bandwidth

6.3.4. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	<ol style="list-style-type: none">1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.2. Set to the maximum power setting and enable the EUT transmit continuously.3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; $RBW \geq 1\%$ of the 20 dB bandwidth; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold.4. Measure and record the results in the test report.
Test setup:	<p>The diagram illustrates the test setup. On the left, a green rectangular device with a screen and two buttons is labeled "Spectrum Analyzer". A grey line connects it to a yellow rectangular device on the right, which is labeled "EUT".</p>
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.3.5. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 20, 2019

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.6. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	4199	---	PASS
Middle	4193	---	PASS
Highest	4152	---	PASS

Test plots as follows:

Lowest channel



Middle channel



Highest channel

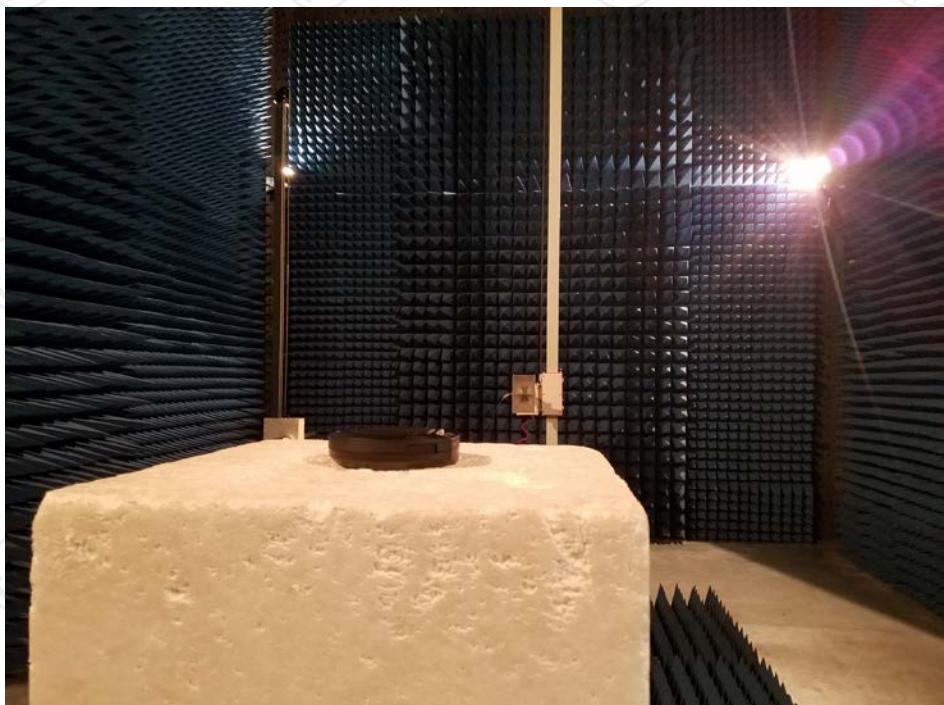
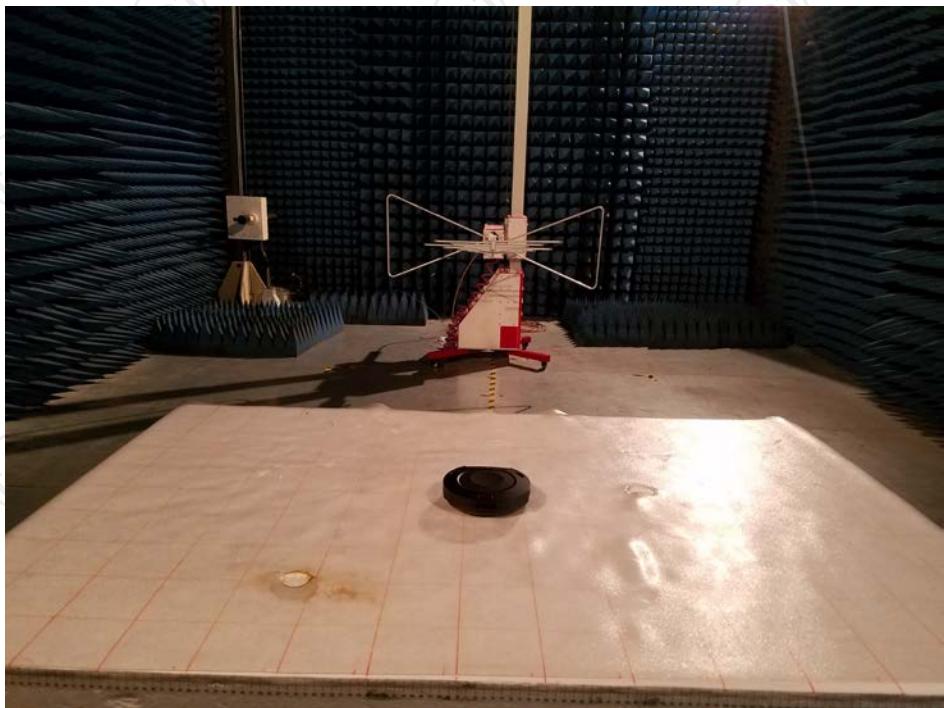


Appendix A: Photographs of Test Setup

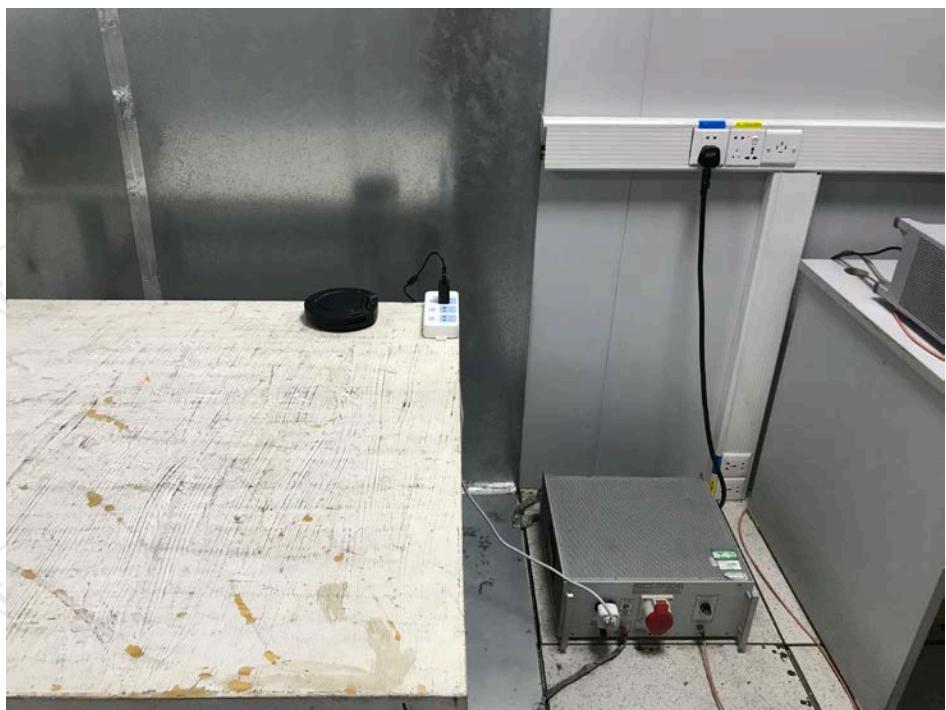
Product: HD Conference Camera with Wireless Speakerphone

Model: AUCTOPUS I-1208

Radiated Emission



CE



Appendix B: Photographs of EUT

Product: HD Conference Camera with Wireless Speakerphone

Model: AUCTOPUS I-1208

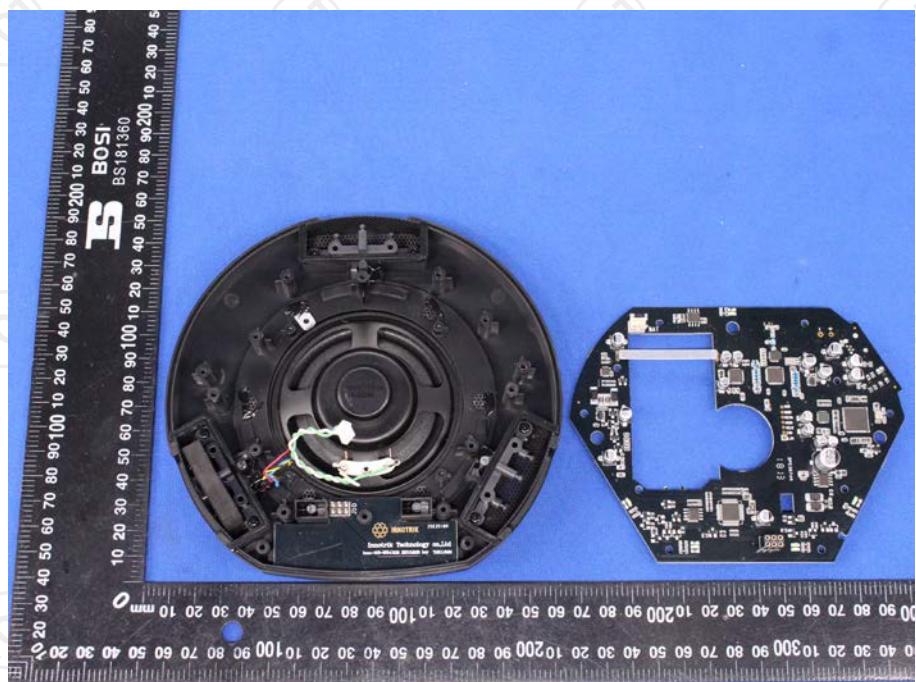
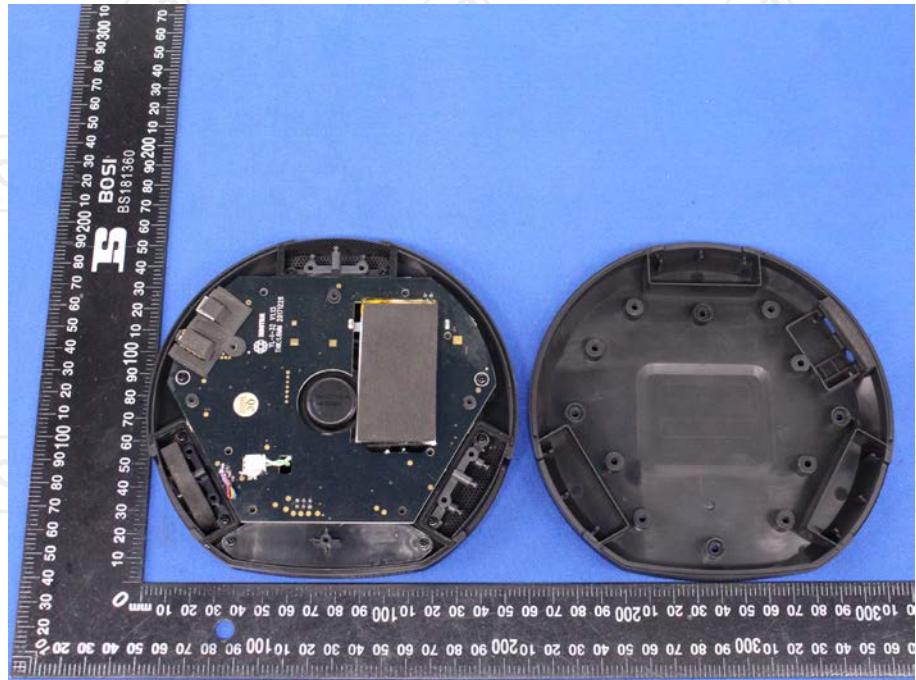
External Photos

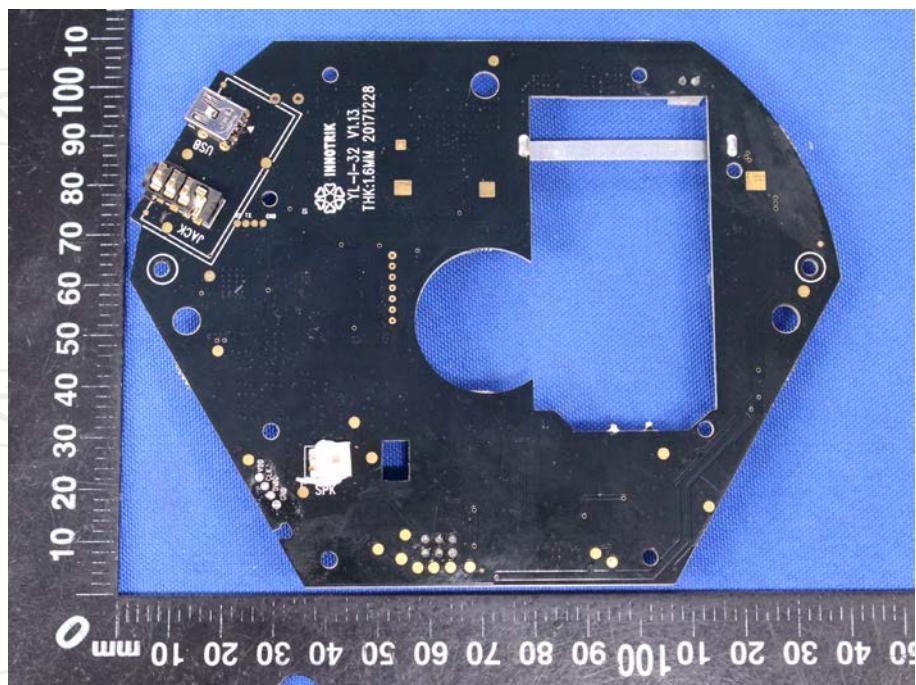
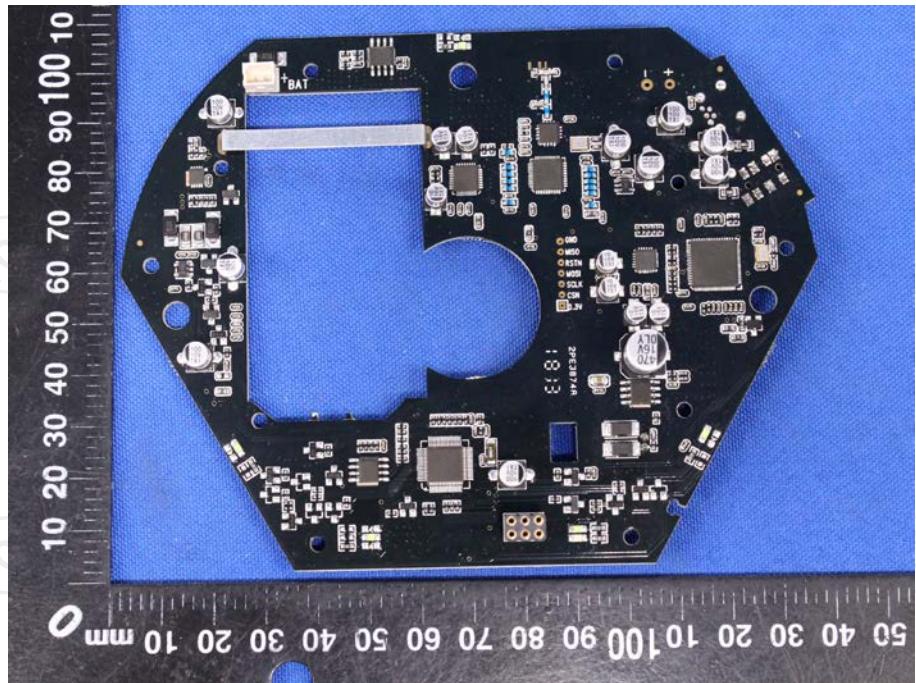


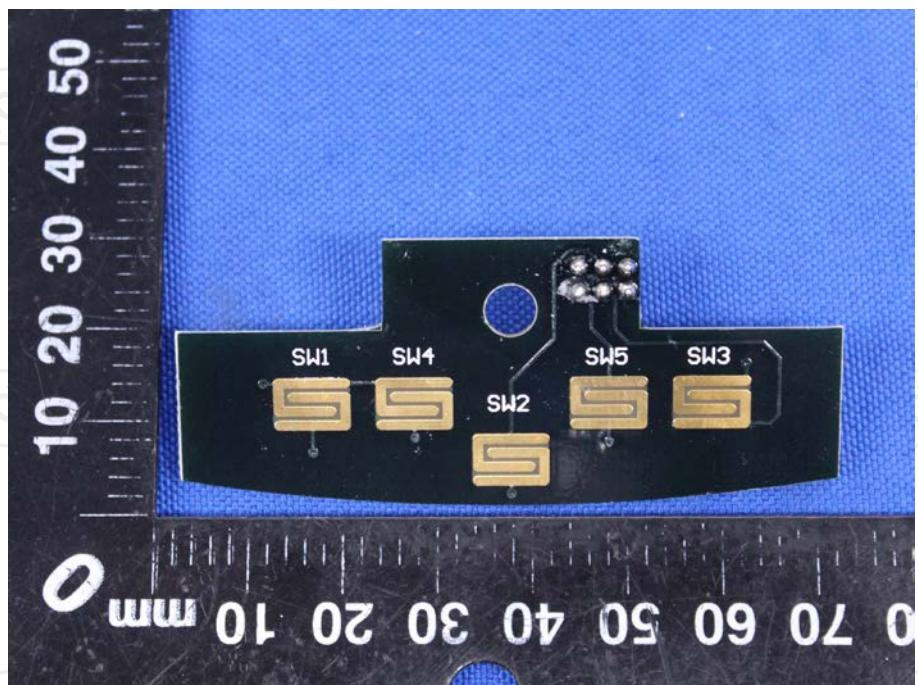
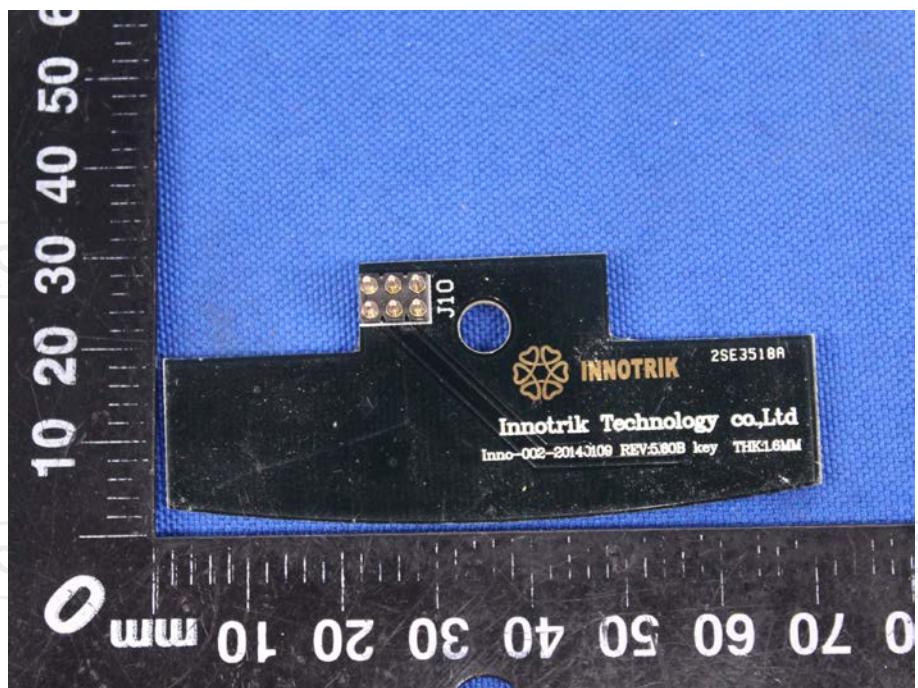


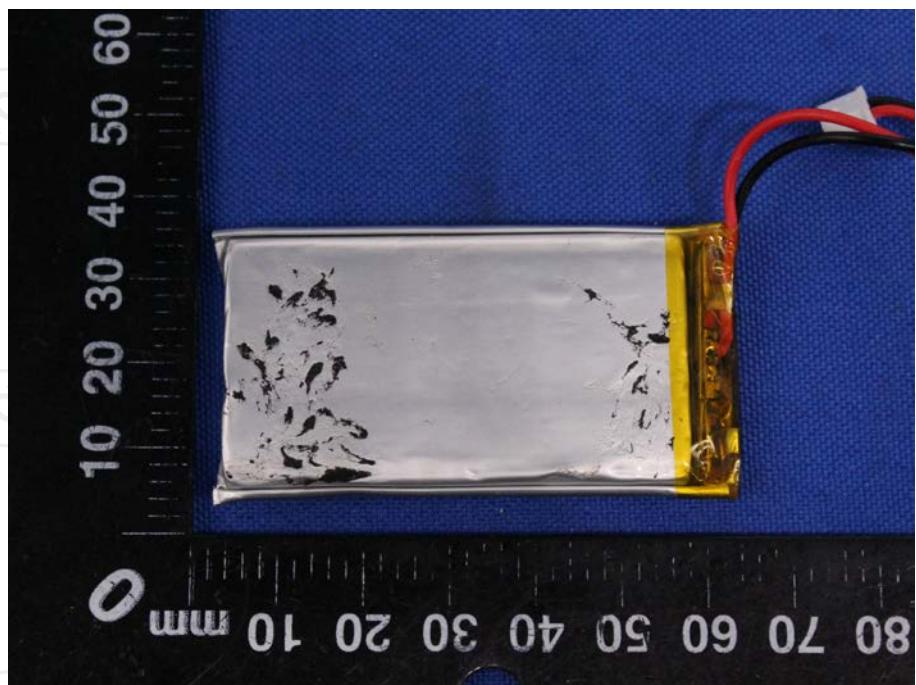


Appendix B: Photographs of EUT
Product: HD Conference Camera with Wireless Speakerphone
Model: AUCTOPUS I-1208
Internal Photos









*******END OF REPORT*******