

TEST REPORT

FCC ID: 2ACMYAWF33

Product: 1080P indoor PT IP Cam

Model No.: AWF33

Additional Model No.: N/A

Trade Mark: N/A

Report No.: TCT161128E011

Issued Date: Dec. 06, 2016

Issued for:

Atoms Labs LLC

2670 Firewheel Dr. Suite D Flower Mound, TX 75028 UAS

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Product:	1080P indoor PT IP Cam
Model No.:	AWF33
Additional Model:	N/A
Applicant:	Atoms Labs LLC
Address:	2670 Firewheel Dr. Suite D Flower Mound, TX 75028 UAS
Manufacturer:	Atoms Labs LLC
Address:	2670 Firewheel Dr. Suite D Flower Mound, TX 75028 UAS
Date of Test:	Nov. 29, 2016 - Dec. 05, 2016
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:	J'm Wang	Date:	Dec. 05, 2016
	Jin Wang	,	
Reviewed By:	Zordhon	Date:	Dec. 06, 2016
	Joe Zhou		
Approved By:	Tomsin	Date:	Dec. 06, 2016
	Tomsin	/	





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	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§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.



Report No.: TCT161128E011



3. EUT Description

Product Name:	1080P indoor PT IP Cam
Model :	AWF33
Additional Model:	N/A
Trade Mark:	N/A
Operation Frequency:	916.8MHz
Number of Channel:	1
Modulation Technology:	FSK
Antenna Type:	Internal Antenna
Antenna Gain:	2dBi
Power Supply:	Adapter1 Information: MODEL: KSAS0120500150HU INPUT: 100-240V~50/60Hz 0.4A OUTPUT: 5.0V, 1.5A Adapter2 Information: MODEL: GQ15-050150-AU INPUT: 100-240V~50/60Hz 0.5A Max OUTPUT: 5.0V, 1.5A Adapter3 Information: MODEL: KT12W050150US INPUT: 100-240V~50/60Hz 0.4A OUTPUT: 5.0V, 1.5A

Operation Frequency Each of Channel

- a	
Frequency	916.8MHz



4. Genera 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

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.

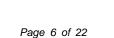
4.2. Description of Support Units

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	
1	1 6) 1	(6) 1		

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.: 572331

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

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2.Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

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	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

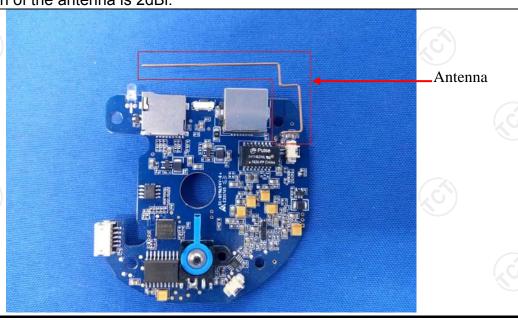
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is an internal antenna which permanently attached, and the best case gain of the antenna is 2dBi.





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						
	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Refere	nce Plane	1201			
Test Setup:	AUX Equipment Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Transmitting mode with	n modulation				
Test Procedure:	1. The E.U.T is connectine impedance stall provides a 50ohm/5 measuring equipment 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10:2013 of	bilization network 50uH coupling im nt. ees are also conners of that provides with 50ohm term diagram of the line are checkence. In order to five positions of equals must be change.	ected to the main a 500hm/50uH nination. (Please test setup and ed for maximum and the maximum ipment and all of led according to			
Test Result:	PASS					



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017				
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017				
Coax cable (9kHz-40GHz)	тст	CE-05	N/A	Aug. 11, 2017				
EMI Test Software	Shurple 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).



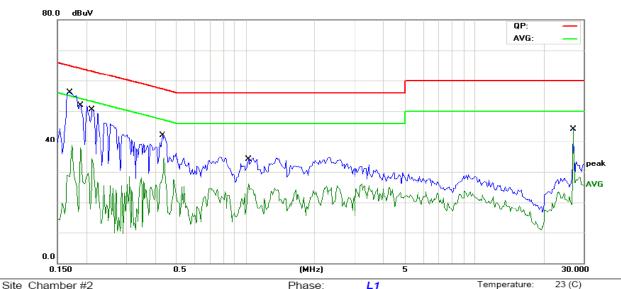




6.2.3. Test data

Please refer to following diagram for individual

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



Limit: FCC Part 15B Class B Conduction(QP) Power

Power:

Humidity: 54 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1695	36.64	11.46	48.10	64.98	-16.88	QP	
2	0.1695	25.01	11.46	36.47	54.98	-18.51	AVG	
3	0.1891	28.62	11.45	40.07	64.07	-24.00	QP	
4	0.1891	19.10	11.45	30.55	54.07	-23.52	AVG	
5	0.2125	32.56	11.44	44.00	63.10	-19.10	QP	
6	0.2125	23.03	11.44	34.47	53.10	-18.63	AVG	
7	0.4313	27.09	11.33	38.42	57.23	-18.81	QP	
8	0.4313	17.61	11.33	28.94	47.23	-18.29	AVG	
9	1.0289	17.78	11.21	28.99	56.00	-27.01	QP	
10	1.0289	12.75	11.21	23.96	46.00	-22.04	AVG	
11	26.9961	32.83	10.71	43.54	60.00	-16.46	QP	
12 *	26.9961	30.05	10.71	40.76	50.00	-9.24	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

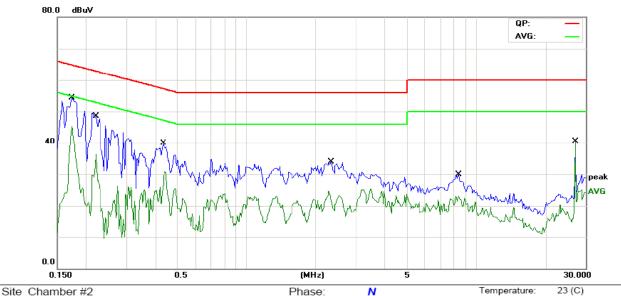
AVG =average

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



54 %

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



Limit: FCC Part 15B Class B Conduction(QP)

Power: Humidity:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1734	38.56	11.46	50.02	64.79	-14.77	QP	
2	0.1734	28.35	11.46	39.81	54.79	-14.98	AVG	
3	0.2203	33.55	11.44	44.99	62.80	-17.81	QP	
4	0.2203	22.13	11.44	33.57	52.80	-19.23	AVG	
5	0.4352	25.05	11.33	36.38	57.15	-20.77	QP	
6	0.4352	17.83	11.33	29.16	47.15	-17.99	AVG	
7	2.3375	16.13	11.57	27.70	56.00	-28.30	QP	
8	2.3375	12.15	11.57	23.72	46.00	-22.28	AVG	
9	8.3711	12.66	11.11	23.77	60.00	-36.23	QP	
10	8.3711	8.20	11.11	19.31	50.00	-30.69	AVG	
11	27.0000	28.92	10.71	39.63	60.00	-20.37	QP	
12 *	27.0000	26.53	10.71	37.24	50.00	-12.76	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

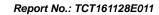
 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

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

The Conducted Emission of the EUT with adapter 1, adapter 2 and adapter 3 is all tested, but the result of adapter 1 is the worst, and only the worst result is recorded in the report.





6.3. Radiated Emission Measurement

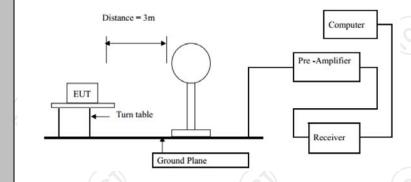
6.3.1. Test Specification

Test Requirement:	FCC Part15	C Section	า 15.209			
Test Method:	ANSI C63.1	10:2013	(7)			
Frequency Range:	9 kHz to 25	GHz				
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & Vertical				Ćζ	
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peak Quasi-peak		VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value	
incoeiver oetup.	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120kHz 1MHz 1MHz	300kHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value	
Limit(Field strength of the fundamental signal):	Freque 902MHz-9		Limit (dBu\ 94. 114	00	Remark Average Value Peak Value	
Limit(Spurious Emissions):	Freque 0.009-0 0.490-1 1.705 30MHz-8 88MHz-2 216MHz-9 960MHz	0.490 1.705 -30 88MHz 16MHz 960MHz -1GHz	Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0 54.0		Remark Quasi-peak Value Average Value Peak Value	
Limit (band edge) :	bands, exceleast 50 dB general rad	ept for har below the diated em	rmonics, so level of the hission lir	the spe shall be a he funda nits in	cified frequency attenuated by at amental or to the	
Test Procedure:	 general radiated emission limits in Section 15.209, whichever is the lesser attenuation. 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 					

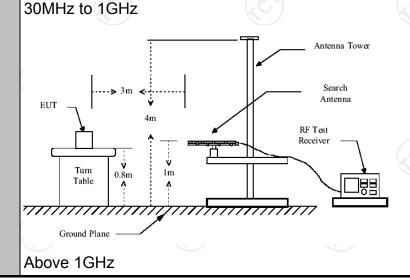


- vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 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.

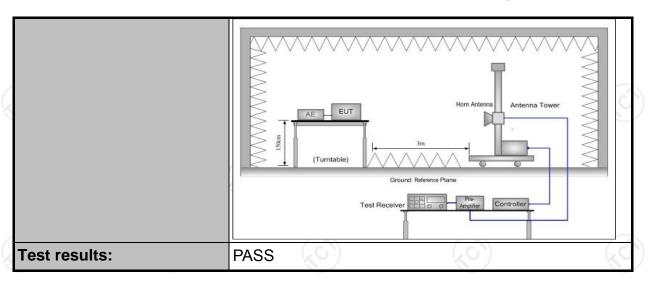
For radiated emissions below 30MHz



Test setup:







6.3.2. Test Instruments

			. / .	
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable (9kHz-40GHz)	ТСТ	RE-low-01	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-02	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	N/A
EMI Test Software	Shurple 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)
916.8	94.13(PK)	Н	114/94	-19.87
916.8	85.90(AV)	Н	114/94	-8.10
916.8	92.45(PK)	V	114/94	-21.55
916.8	84.16(AV)	V	114/94	-9.84

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
<u> </u>				
		-		
CI	<u></u>	<i>a</i> - <i>a</i>		
(3) (3)	(()	(ď) (ď		

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



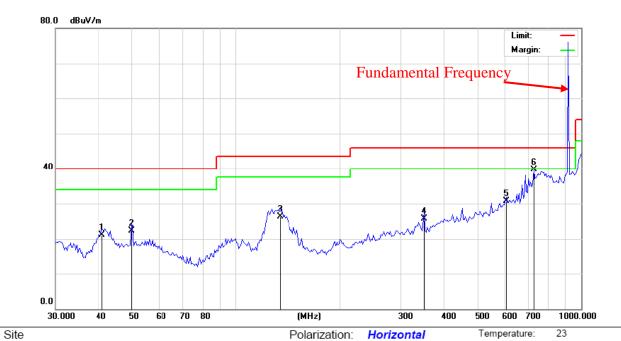


Humidity:

54 %

Frequency Range (30MHz-1GHz)

Horizontal:



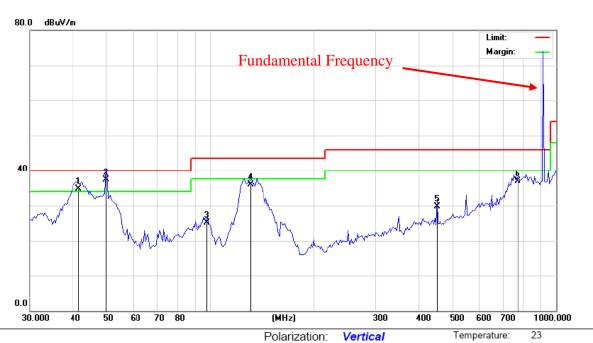
Limit: FCC Part 15B Class B RE_3 m Power:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		40.8700	31.10	-10.04	21.06	40.00	-18.94	QP		0	
2		49.7571	32.00	-9.63	22.37	40.00	-17.63	QP		0	
3		134.0193	41.20	-14.86	26.34	43.50	-17.16	QP		0	
4	,	350.9721	31.30	-5.60	25.70	46.00	-20.30	QP		0	
5		607.1806	29.80	0.89	30.69	46.00	-15.31	QP		0	
6	*	728.8971	34.66	5.07	39.73	46.00	-6.27	QP		0	





Vertical:



Site Polarization: Vertical Temperature: 23
Limit: FCC Part 15B Class B RE_3 m Power: Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	İ	41.4483	44.50	-9.81	34.69	40.00	-5.31	QP		0	
2	*	49.7571	46.90	-9.63	37.27	40.00	-2.73	QP		0	
3		97.6864	36.10	-11.09	25.01	43.50	-18.49	QP		0	
4		130.3048	50.20	-14.28	35.92	43.50	-7.58	QP		0	
5		452.0013	33.40	-3.62	29.78	46.00	-16.22	QP		0	
6		776.4850	31.20	5.75	36.95	46.00	-9.05	QP		0	





Above 1GHz

	Channel: 916.8MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
1410.58	Н	51.73		-2.38	49.35		74.00	54.00	-4.65	
1410.58	Н		40.82	-2.38		38.44	74.00	54.00	-15.56	
1833.60	Н	52.65		-3.98	48.67		74.00	54.00	-5.33	
2750.40	Н	49.04		0.57	49.61		74.00	54.00	-4.39	
				\	/					
	(O		120)		(0)		(20)		
1410.58	V	50.63		-2.38	48.25	<u></u>	74.00	54.00	-5.75	
1410.58	V		41.39	-2.38		39.01	74.00	54.00	-14.99	
1833.60	V	54.07		-3.98	50.09		74.00	54.00	-3.91	
2750.40	V	50.02		0.57	50.59		74.00	54.00	-3.41	
<u> </u>		\)		K2-/			

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

Channel: 9	Channel: 916.8MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
902	Н	46.35		5.65	52		74.00		-22
902	Н		38.31	5.65		43.96		54.00	-10.04
928	Н	56.42		5.74	62.16		74.00		-11.84
928	Н	-140	43.24	5.74	(O.)-	47.98	K-0)	54.00	-6.02
902	V	49.28		5.65	54.93		74.00		-19.07
902	V		40.61	5.65		46.26		54.00	-7.74
928	V	58.55		5.74	64.29		74.00		-9.71
928	V		43.27	5.74		49.01		54.00	-4.99

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.





6.4.20dB Occupied Bandwidth

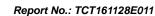
6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A)
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. 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≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model Serial Number		Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017				

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

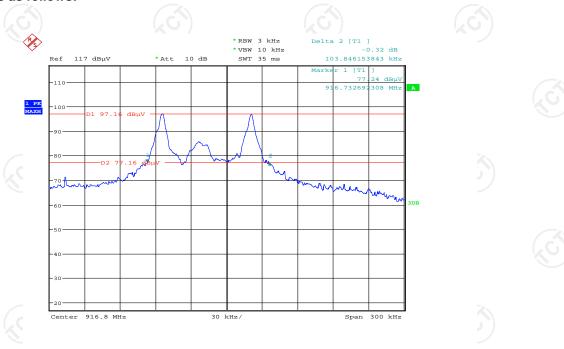


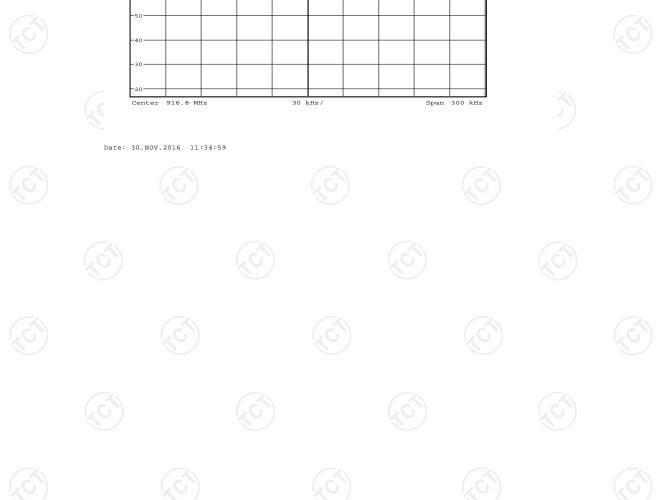


6.4.3. Test data

	Frequency (MHz)	20dB Occupy Bandwidth (kHz)	Limit	Conclusion	
5	916.8	103.85		PASS	

Test plots as follows:







Appendix A: Photographs of Test Setup

Refer to test report TCT161128E003

Appendix B: Photographs of EUT

Refer to test report TCT161128E003

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

