

RADIO TEST REPORT FCC ID: 2AOKB-T8111CL

Product: eufyCam Trade Mark: eufy Security Model No.: T8111 Serial Model: N/A Report No.: S18110703702001 Issue Date: 19 Mar. 2019

Prepared for

Anker Innovations Limited Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,Hong Kong

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn





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1 TEST RESULT CERTIFICATION

Applicant's name:	Anker Innovations Limited	
Address:	Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,Hong Kong	
Manufacturer's Name:	Anker Innovations Limited	
Address:	Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,Hong Kong	
Product description		
Product name:	eufyCam	
Model and/or type reference:	T8111	
Serial Model:	N/A	

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	
KDB 174176 D01 Line Conducted FAQ v01r01	Complied
ANSI C63.10-2013	
KDB 558074 D01 15.247 Meas Guidance v05	

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

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

Date of Test	:	21 Feb. 2019~ 15 Mar. 2019
Testing Engineer	:	(Mary Hu)
		a son oven
Technical Manager	:	100, 1
		(Jason Chen)
		Sam. Chew
Authorized Signatory	:	20.00
0,		(Sam Chen)

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2 SUMMARY OF TEST RESULTS

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

Remark:

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

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

Certificate #4298 01

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description		
CNAS-Lab.	:	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
		The Certificate Registration Number is L5516.
IC-Registration		The Certificate Registration Number is 9270A-1.
FCC- Accredited		Test Firm Registration Number: 463705.
		Designation Number: CN1184
A2LA-Lab.		The Certificate Registration Number is 4298.01
		This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for
		the competence of testing and calibration laboratories.
		This accreditation demonstrates technical competence for a defined
		scope and the operation of a laboratory quality management system
		(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm		Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

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

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	eufyCam					
Trade Mark	eufy Security					
FCC ID	2AOKB-T8111CL					
Model No.	T8111					
Serial Model	N/A					
Model Difference	N/A					
Operating Frequency	915MHz~927.25MHz					
Modulation	GFSK					
Number of Channels	3 Channels					
Antenna Type	LDS antenna					
Antenna Gain	OdBi					
Power supply	DC supply: DC 7.2V/6700mAh from Battery or DC 5V/2A & DC 9V/2A from USB port.					
	Adapter supply:					
HW Version	V03					
SW Version	V1.5.0					

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





Revision History Version Description

Report No.	Version	Description	Issued Date
S18110703702001	Rev.01	Initial issue of report	19 Mar. 2019

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5 DESCRIPTION OF TEST MODES

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

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

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

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

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

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
1	915
2	922
3	927.25

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

	Test Cases			
Toot Itom	Data Rate/ Modulation			
Test Item	GFSK			
AC Conducted Emission	Mode 1: normal link mode			
	Mode 1: normal link mode			
Radiated Test	Mode 2: GFSK Tx Ch01_915MHz			
Cases	Mode 3: GFSK Tx Ch 02_922MHz			
	Mode 4: GFSK Tx Ch03_927.25MHz			
	Mode 2: GFSK Tx Ch01_915MHz			
Conducted Test Cases	Mode 3: GFSK Tx Ch 02_922MHz			
Cases	Mode 7: GFSK Tx Ch03_927.25MHz			

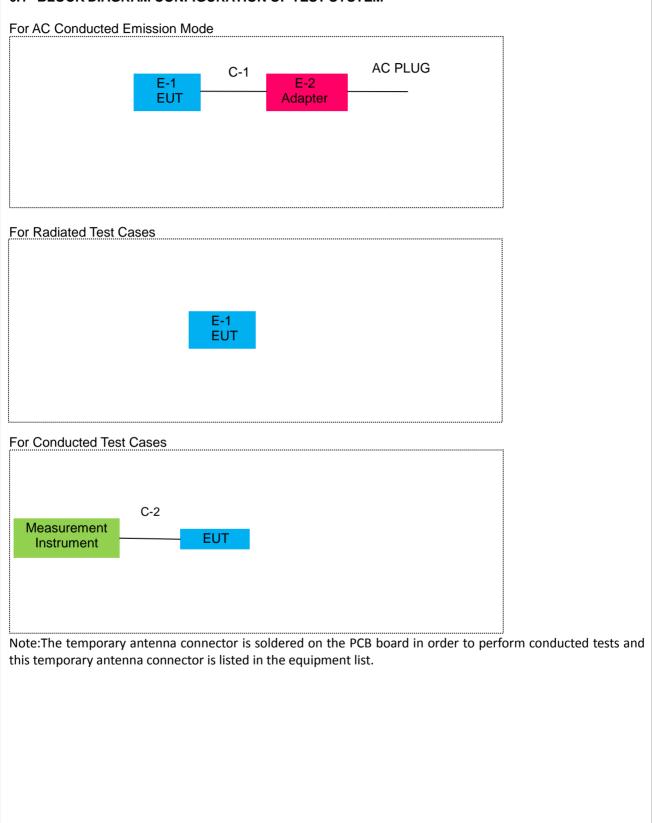
Note:

- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 4. EUT is set to continuous transmission mode. duty cycle greater than 98%.
- 5. EUT built-in battery-powered, the battery is fully-charged.





6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM







6.2 SUPPORT EQUIPMENT

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

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.2m
C-2	RF Cable	YES	NO	0.1m

Notes:

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

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

adiada	na conducted i	oor oquipmon					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2018.04.08	2019.04.07	1 year
8	Amplifier	EMC	EMC051835 SE	980246	2018.12.11	2019.12.10	1 year
9	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.08.05	2019.08.04	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN 084	2018.12.11	2019.12.10	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2018.08.05	2019.08.04	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
15	Filter	TRILTHIC	2400MHz	29	2017.04.21	2020.04.20	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	2017.04.19	2020.04.18	N/A

Note:

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





AC Co	onduction Test	equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
2	LISN	R&S	ENV216	101313	2018.04.18	2019.04.19	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2018.05.19	2019.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

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



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

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

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

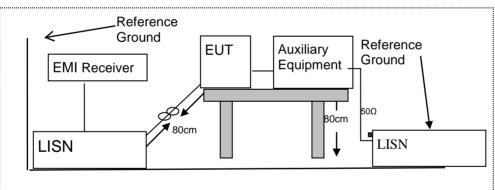
2. The lower limit shall apply at the transition frequencies

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

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 Test Procedure

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

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





7.1.6 Test Results

EUT: eufyCam		Model Name :		:	T8111		
Temperature:	26 ℃		Relative Hun	elative Humidity: 54%			
Pressure:	1010hPa	à	Phase :		L		
Test Voltage	DC 5V fi AC 120\	om Adapter //60Hz	Test Mode:		Mode	1	
Frequency	Reading Level	Correct Factor	Measure-ment	Lim	its	Margin	- Remarl
(MHz)	(dBµV)	(dB)	(dBµV)	(dBļ	IV)	(dB)	Reman
0.1539	34.43	9.75	44.18	65.	78	-21.60	QP
0.1539	20.55	9.75	30.30	55.	78	-25.48	AVG
0.1819	31.78	9.76	41.54	64.3	39	-22.85	QP
0.1819	18.85	9.76	28.61	54.3	39	-25.78	AVG
0.5460	32.85	9.74	42.59	56.0	00	-13.41	QP
0.5460	22.69	9.74	32.43	46.0	00	-13.57	AVG
0.7900	25.75	9.74	35.49	56.0	00	-20.51	QP
0.7900	14.76	9.74	24.50	46.0	00	-21.50	AVG
0.9980	25.50	9.74	35.24	56.0	00	-20.76	QP
0.9980	14.60	9.74	24.34	46.0	00	-21.66	AVG

33.12

23.46

60.00

50.00

-26.88

-26.54

QP

AVG

Remark:

15.6659

15.7899

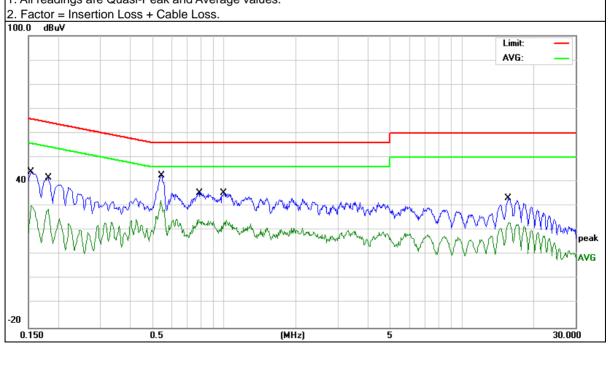
1. All readings are Quasi-Peak and Average values.

23.01

13.34

10.11

10.12





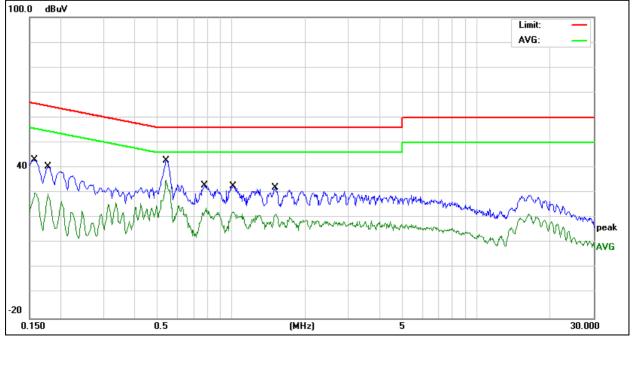


EUT: eufyC		eufyCam	n Mod		Model Na	me :	T8111	
Temperature: 26 °C		26 ℃	Rel		Relative Humidity:		54%	
Pressure:	1	I010hPa	l		Phase :		N	
		DC 5V from Adapter AC 120V/60Hz		Test Mode:		Mode 1		
	Deedi		Corrot Foster	Maa		Linsite	Manaia	
Frequency	Readil	ng Level	Correct Factor	iviea	sure-ment	Limits	Margin	Remark
(MHz)	(dE	BμV)	(dB)		(dBµV)	(dBµV)	(dB)	
0.1580	33	3.33	9.74		43.07	65.56	-22.49	QP
0.1580	20	0.27	9.74		30.01	55.56	-25.55	AVG
0.1780	30	0.61	9.73		40.34	64.57	-24.23	QP
0.1780	19	9.96	9.73		29.69	54.57	-24.88	AVG
0.5420	33	3.16	9.75		42.91	56.00	-13.09	QP
0.5420	25	5.23	9.75		34.98	46.00	-11.02	AVG
0.7780	23	3.11	9.75		32.86	56.00	-23.14	QP
0.7780	14	4.15	9.75		23.90	46.00	-22.10	AVG
1.0180	22	2.98	9.75		32.73	56.00	-23.27	QP
1.0180	12	2.81	9.75		22.56	46.00	-23.44	AVG
1.5100	22	2.28	9.78		32.06	56.00	-23.94	QP
1.5100	11	1.79	9.78		21.57	46.00	-24.43	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





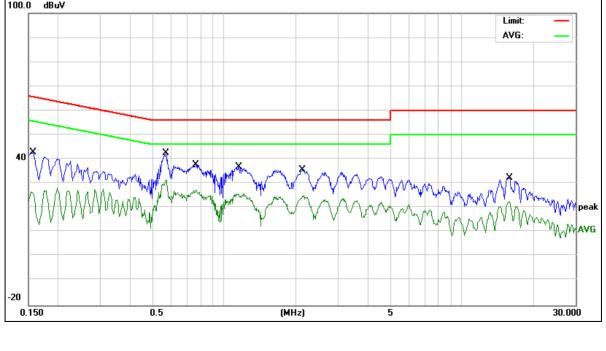


Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	33.10	9.75	42.85	65.56	-22.71	QP
0.1580	16.96	9.75	26.71	55.56	-28.85	AVG
0.5699	32.82	9.74	42.56	56.00	-13.44	QP
0.5699	21.73	9.74	31.47	46.00	-14.53	AVG
0.7620	27.98	9.74	37.72	56.00	-18.28	QP
0.7620	17.59	9.74	27.33	46.00	-18.67	AVG
1.1499	27.06	9.74	36.80	56.00	-19.20	QP
1.1499	16.23	9.74	25.97	46.00	-20.03	AVG
2.1339	25.72	9.78	35.50	56.00	-20.50	QP
2.1339	15.35	9.78	25.13	46.00	-20.87	AVG
15.8099	22.11	10.12	32.23	60.00	-27.77	QP
15.8099	12.73	10.12	22.85	50.00	-27.15	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

100.0 dBuV





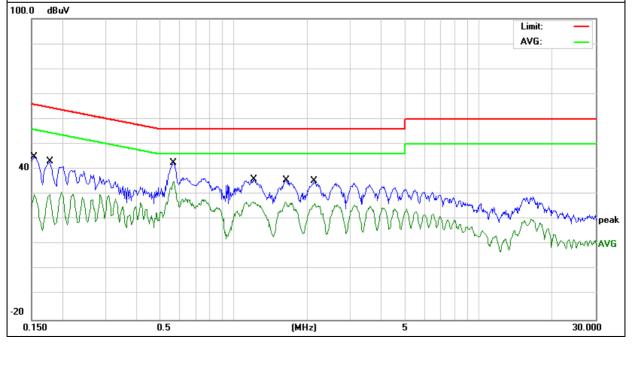


EUT: euf		eufyCam			Model Name :		T8111	
Temperature: 26 °C		26 ℃	°C F		Relative Humidity:		54%	
Pressure:		1010hPa			Phase :		N	
		DC 5V from Adapter AC 240V/60Hz		Test Mode	e :	Mode 1		
	Dee	-1:				1 : :	N.A. main	
Frequency	Rea	ding Level	Correct Factor	wea	sure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)		(dBµV)	(dBµV)	(dB)	
0.1539		35.15	9.74		44.89	65.78	-20.89	QP
0.1539		20.33	9.74		30.07	55.78	-25.71	AVG
0.1779		33.29	9.73		43.02	64.58	-21.56	QP
0.1779		20.17	9.73		29.90	54.58	-24.68	AVG
0.5699		32.66	9.75		42.41	56.00	-13.59	QP
0.5699		25.42	9.75		35.17	46.00	-10.83	AVG
1.2099		26.12	9.75		35.87	56.00	-20.13	QP
1.2099		17.31	9.75		27.06	46.00	-18.94	AVG
1.6379		25.86	9.78		35.64	56.00	-20.36	QP
1.6379		17.06	9.78		26.84	46.00	-19.16	AVG
2.1339		25.55	9.80		35.35	56.00	-20.65	QP
2.1339		16.48	9.80		26.28	46.00	-19.72	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

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

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

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

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





7.2.3 Measuring Instruments

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

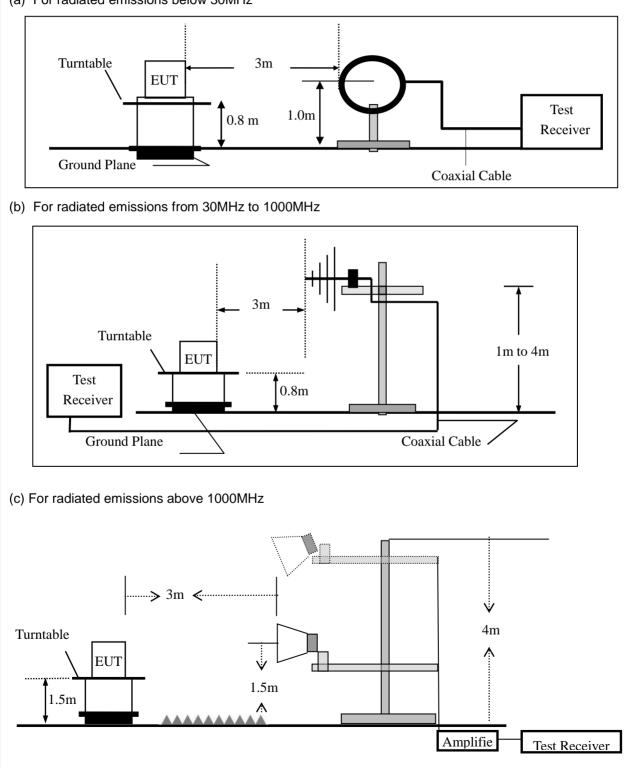
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7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



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7.2.5 Test Procedure

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

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

Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10th carrier harmonic				
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average				

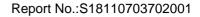
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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

Note:

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





During the radiated emission test, the Spectrum Analyzer was set with the following configurations:							
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth				
30 to 1000	QP	120 kHz	300 kHz				
AL	Peak	1 MHz	1 MHz				
Above 1000	Average	1 MHz	10 Hz				

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

7.2.6 Test Results

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

EUT:	eufyCam	Model No.:	T8111
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

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

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



■ Spurious Emission below 1GHz (30MHz to 1GHz)

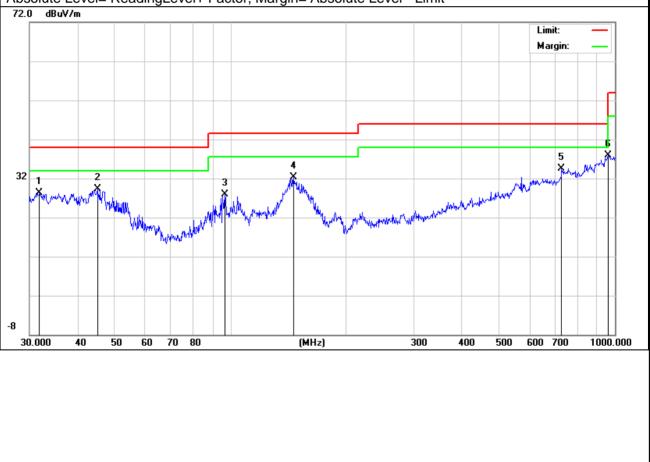
All the modulation modes have been tested, and the worst result was report as below:

EUT:	eufyCam	Model Name :	T8111
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 7.2V		

Polar	Frequency	Meter Reading	Factor		Factor Limits Mardin		Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
V	31.8427	10.05	18.25	28.30	40.00	-11.70	QP	
V	45.0583	17.78	11.62	29.40	40.00	-10.60	QP	
V	96.7749	16.75	11.15	27.90	43.50	-15.60	QP	
V	145.8608	19.23	13.07	32.30	43.50	-11.20	QP	
V	726.8052	7.51	27.04	34.55	46.00	-11.45	QP	
V	960.0000	6.71	31.15	37.86	46.00	-8.14	QP	

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit







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EUT: eufyCam				Mode	el No.:		T8111				
Temperature		20 ℃		Relat	Relative Humidity:			48%			
Test Mode:		Mode2/Mod	le3/Mode	4 Test	By:		Ma	ry Hu			
					•			•			
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limi	ts	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV	′/m)	(dB)			
Low Channel (915.0 MHz)Above 1G											
1830.79	63.6	5.21	26.5	55.35	39.96	74.0	00	-34.04	Pk	Vertical	
1830.79	43.38	5.21	26.5	55.35	19.74	54.0	00	-34.26	AV	Vertical	
2745.36	57.88	6.48	28.49	55.11	37.74	74.0	00	-36.26	Pk	Vertical	
2745.36	45.51	6.48	28.49	55.11	25.37	54.0	00	-28.63	AV	Vertical	
1830.78	66.72	5.21	26.5	55.35	43.08	74.0	00	-30.92	Pk	Horizontal	
1830.78	46.63	5.21	26.5	55.35	22.99	54.0	00	-31.01	AV	Horizontal	
2745.39	64.95	6.48	28.49	55.11	44.81	74.0	00	-29.19	Pk	Horizontal	
2745.39	46.73	6.48	28.49	55.11	26.59	54.0	00	-27.41	AV	Horizontal	
		Ν	liddle Char	nnel (922	.0MHz)Abo	ove 1G					
1844.26	61.7	5.21	26.5	55.35	38.06	74.0	00	-35.94	Pk	Vertical	
1844.26	43.61	5.21	26.5	55.35	19.97	54.0	00	-34.03	AV	Vertical	
2766.43	61.68	7.10	28.49	55.11	42.16	74.0	00	-31.84	Pk	Vertical	
2766.43	43.72	7.10	28.49	55.11	24.20	54.0	00	-29.80	AV	Vertical	
1844.29	62.62	5.21	26.5	55.35	38.98	74.0	00	-35.02	Pk	Horizontal	
1844.29	42.88	5.21	26.5	55.35	19.24	54.0	00	-34.76	AV	Horizontal	
2766.52	58.69	7.10	28.49	55.11	39.17	74.0	00	-34.83	Pk	Horizontal	
2766.52	43.69	7.10	28.49	55.11	24.17	54.0	00	-29.83	AV	Horizontal	
		Н	igh Chann	el (927.2	5 MHz)Abo	ove 1G					
1854.5	61.58	5.21	26.5	55.35	37.94	74.0	00	-36.06	Pk	Vertical	
1854.5	42.78	5.21	26.5	55.35	19.14	54.0	00	-34.86	AV	Vertical	
2781.75	61.21	7.10	28.49	55.11	41.69	74.0	00	-32.31	Pk	Vertical	
2781.75	42.38	7.10	28.49	55.11	22.86	54.0	00	-31.14	AV	Vertical	
1854.5	62.69	5.21	35.52	55.35	48.07	74.0	00	-25.93	Pk	Horizontal	
1854.5	43.21	5.21	35.52	55.35	28.59	54.0	00	-25.41	AV	Horizontal	
2781.75	61.01	7.10	36.53	55.11	49.53	74.0	00	-24.47	Pk	Horizontal	
2781.75	43.02	7.10	36.53	55.11	31.54	54.0	00	-22.46	AV	Horizontal	

Note:

(1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
(2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (3)All other emissions more than 20dB below the limit.





	Spurious	Emission	in	Restricted	Band	960MHz-18000MHz
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EUT:	eufyCam	Model No.:	T8111
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

Frequenc	Reading	Cable	Antenna	Preamp	Emission	Limits	Limita Margin	Detector	Comment
У	Level	Loss	Factor	Factor	Level	LIIIIIIS	Margin	Delector	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
1240	62.56	4.26	25.41	54.17	38.06	74	-35.94	Pk	Vertical
1240	46.47	4.26	25.41	54.17	21.97	54	-32.03	AV	Vertical
1240	62.49	4.26	25.41	54.17	37.99	74	-36.01	Pk	Horizontal
1240	48.69	4.26	25.41	54.17	24.19	54	-29.81	AV	Horizontal

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





7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

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

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

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

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

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

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

7.3.6 Test Results

EUT:	eufyCam	Model No.:	T8111
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
01	915	500.394	≥500	Pass
02	922	500.557	≥500	Pass
03	927.25	501.252	≥500	Pass

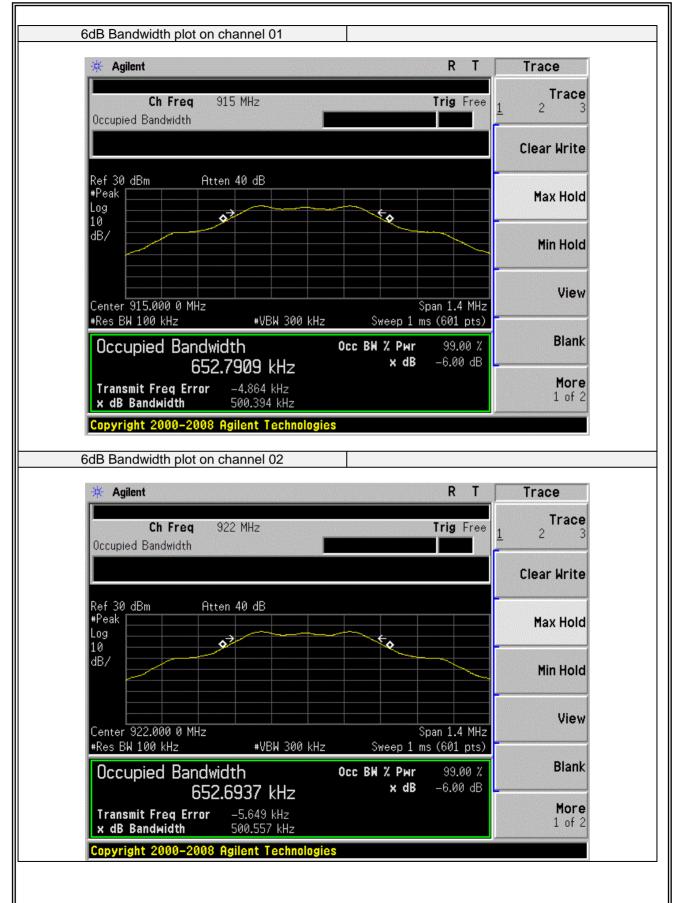


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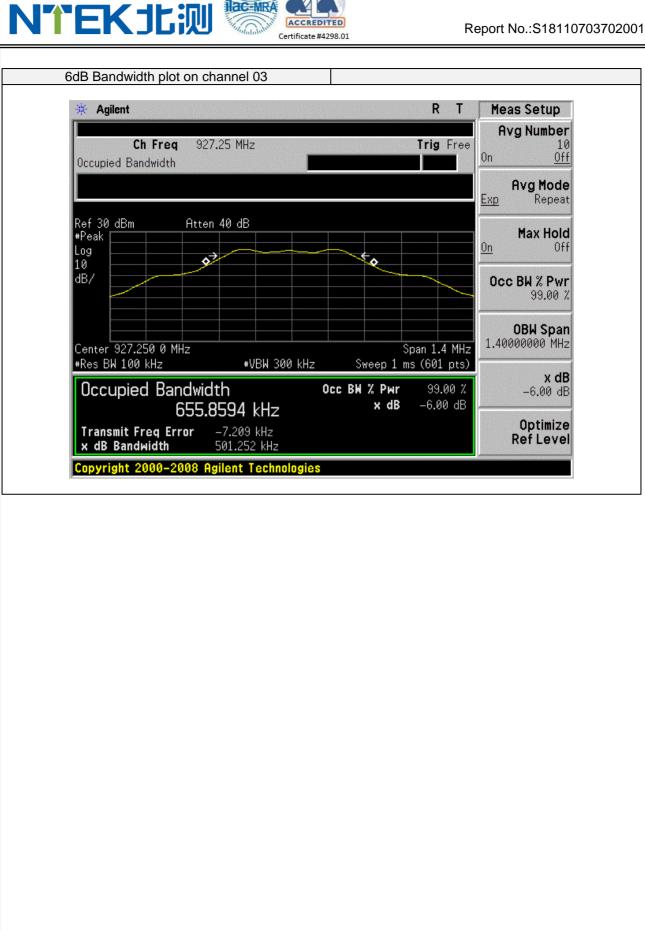
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7.4 PEAK OUTPUT POWER

7.4.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05 Section 8.3.1.

7.4.2 Conformance Limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

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





7.4.6 Test Results

EUT:	eufyCarr	1	Model No.:	T811	T8111		
Temperature:	20 °C		Relative Humidity:	48%			
Test Mode:	Mode2/N	lode3/Mode4	Test By:	Mary	' Hu		
			- 1			1	
Test Channel	Frequency (MHz)	Power Settin	g Peak Output Po (dBm)	ower	LIMIT (dBm)	Verdict	
01	915	Default	14.18		30	PASS	
02	922	Default	14.16		30	PASS	
03	927.25	Default	14.14		30	PASS	



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Spectrum									
Ref Level	30.00 dBm		RBW						(~
Att 1Pk View	50 dB	SWT 1 m	s 👄 VBW :	LO MHZ N	1ode Sweep				
					м	1[1]		01	14.18 dBm 4.7830 MHz
20 dBm				M1					1.7000 0012
10 dBm				M1					
10 dbm								_	
0 dBm									
-10 d8m									
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
60 d0									
-60 dBm									
CF 915.0 M	Hz			69	L pts			Spar	n 10.0 MHz
					r pro				
output I)[lot on ch	nannel 0) Measur	ring		
Spectrum	Power p	lot on ch		2) Measur	dina		
	Power p		RBW	2 3 MHz	10de Sweep) Measu	daa		
Spectrum Ref Level Att	Power p		RBW	2 3 MHz	1ode Sweep		ding		
Spectrum Ref Level Att 1Pk View	Power p		RBW	2 3 MHz	1ode Sweep) Measur 1[1]			
Spectrum Ref Level Att 1Pk View	Power p		RBW	2 3 MHz	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Att 1Pk View 20 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Power p		RBW	2 3 MHz 10 MHz N	1ode Sweep M				(₩ ▼ 14.16 dBm
Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm	Dower p		RBW	2 3 MHz 10 MHz N	1ode Sweep M			92	(₩ ▼ 14.16 dBm



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Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 927.2790 MHz 20 dBm M1 927.2790 MHz 20 dBm M1 927.2790 MHz 10 dBm M1 927.2790 MHz 0 dBm M1 927.2790 MHz 10 dBm M1 927.2790 MHz 20 dBm M1 927.2790 MHz 30 dBm M1 927.2790 MHz 40 dBm M1 927.2790 MHz 40 dBm M1 927.2790 MHz 40 dBm <td< th=""><th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 20 dBm M1 927.2790 MHz 10 dBm M1 10 dBm 0 dBm M1 10 dBm 10 dBm M1 10 dBm 20 dBm M1 10 dBm 10 dBm M1 10 dBm 10</th><th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 20 dBm M1[1] 927.2790 MHz 20 dBm M1 927.2790 MHz 0 dBm M1 927.2790 MHz 10 dBm M1 927.2790 MHz -20 dBm M1 927.2790 MHz -30 dBm M1 927.2790 MHz -50 dBm M1 927.2790 MHz -60 dBm M1 927.2790 MHz 60 dBm M1 927.2790 MHz 67 927.25 MHz 691 pts Span 10.0 MHz</th><th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927,2790 MHz 20 dBm M1 927,2790 MHz 927,2790 MHz 10 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz 10 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz -20 dBm -0 dBm -0 dBm -0 dBm -0 dBm -30 dBm -0 dBm -0 dBm -0 dBm -0 dBm -50 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm</th><th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm -40 dBm</th></td<> <th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm M1 927.2790 MHz 927.2790 MHz -50 dBm M1 927.2790 MHz 927.2790 MHz -60 dBm M1 M1 927.2790 MHz 927.2790 MHz</th> <th>Att 40 dB SWT 1 ms VBW 10 MH2 Mode Sweep •1Pk View •11 •14.14 dBm •927.2790 MH2 927.2790 MH2</th> <th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep IPk View M1[1] 14.14 dBm 927.2790 MHz 927.2790 MHz 0 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -691 pts Span 10.0 MHz </th> <th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 1 Pk View M1[1] 14.14 dBm 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm 927.2790 MHz 927.2790 MHz 927.2790 MHz -20 dBm 927.2790 MHz 927.2790 MHz 927.2790 MHz -20 dBm 927.2790 MHz 927.2790 MHz 927.2790 MHz -50 dBm 927.2790 MHz 927.2790 MHz 927.2790 MHz -60 dBm 927.2790 MHz 927.2790 MHz 927.2790 MHz</th> <th>Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 11Pk View M1[1] 14.14 dBm 20 dBm M1 927.2790 MHz 10 dBm M1 10 dBm 10 dBm 0 dBm 0 dBm 20 dBm 0 dBm 0 dBm 10 dBm 0 dBm 0 dBm 20 dBm 0 dBm 0 dBm 20 dBm 0 dBm 0 dBm 11 ddBm 0 dBm 0 dBm 20 dBm 0 dBm 0</th> <th>Spectrum</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>⊞ ⊽</th>	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 20 dBm M1 927.2790 MHz 10 dBm M1 10 dBm 0 dBm M1 10 dBm 10 dBm M1 10 dBm 20 dBm M1 10 dBm 10	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 20 dBm M1[1] 927.2790 MHz 20 dBm M1 927.2790 MHz 0 dBm M1 927.2790 MHz 10 dBm M1 927.2790 MHz -20 dBm M1 927.2790 MHz -30 dBm M1 927.2790 MHz -50 dBm M1 927.2790 MHz -60 dBm M1 927.2790 MHz 60 dBm M1 927.2790 MHz 67 927.25 MHz 691 pts Span 10.0 MHz	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927,2790 MHz 20 dBm M1 927,2790 MHz 927,2790 MHz 10 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz 10 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz 0 dBm M1 927,2790 MHz 927,2790 MHz -20 dBm -0 dBm -0 dBm -0 dBm -0 dBm -30 dBm -0 dBm -0 dBm -0 dBm -0 dBm -50 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm -60 dBm -0 dBm -0 dBm -0 dBm -0 dBm	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm -40 dBm	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep 91Pk View M1[1] 14.14 dBm 927.2790 MHz 20 dBm M1 927.2790 MHz 927.2790 MHz 10 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz 0 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm M1 927.2790 MHz 927.2790 MHz -20 dBm M1 927.2790 MHz 927.2790 MHz -50 dBm M1 927.2790 MHz 927.2790 MHz -60 dBm M1 M1 927.2790 MHz 927.2790 MHz	Att 40 dB SWT 1 ms VBW 10 MH2 Mode Sweep •1Pk View •11 •14.14 dBm •927.2790 MH2 927.2790 MH2	Att 40 dB SWT 1 ms VBW 10 MHz Mode Sweep IPk View M1[1] 14.14 dBm 927.2790 MHz 927.2790 MHz 0 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -691 pts 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-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	-60 dBm	60 dBm	-50 dBm							
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										CF 927.25 MHz		6	91 pts	Measur	ing		
										CF 927.25 MHz		6	91 pts	Measur			
										CF 927.25 MHz		6	91 pts	Measur	ing		



7.5 POWER SPECTRAL DENSITY

7.5.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05 Section 8.4.

7.5.2 Conformance Limit

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

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

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

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

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

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

The EUT was operating in controlled its channel.

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

- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



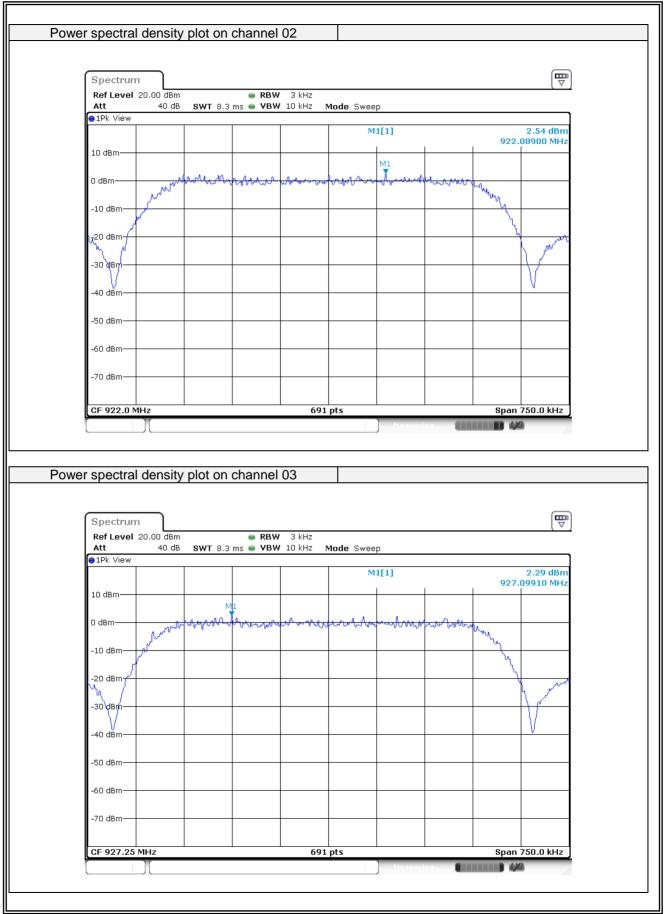


7.5.6 Test Results

EUT:	eufyCam		Model No.:		T8111	
Temperature:	20 °C		Relative Hu	midity:	48%	
Test Mode:	Mode2/Mod	le3/Mode4	Test By:		Mary Hu	
	Frequency	Powe	r Density		Limit	
Test Channel	(MHz)	(dBn	n/3KHz)	(d	Bm/3KHz)	Verdict
	()	(1Mbps	1 (-		
01	915		2.78		8	PASS
02	922		2.54		8	PASS PASS
03	927.25		2.29		8	PASS
Power spe	ectral density plot c	on channel (01			
·	F .					
Grad						
	ctrum	e RBW	3 kHz			
Att		8.3 ms 👄 VBW		veep		
	View			M1[1]		2.78 dBm
10 d	Bm				91	4.86220 MHz
10 0		M1				
0 dB	m	www.Marrowa	Judiday ya alan		4 million and million	
-10 a	iBm / / /				- What	
						\backslash
<u>}</u> {20 c	JBm					1 mrd
-30	iBm					
(V I I					V
-40 c	IBm					
-50 a	18m					
-60 c	IBm					
-70 c	18m					
CF 9	015.0 MHz		691 pts		Spa	n 750.0 kHz
				Measu	rring	()KI



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7.6 CONDUCTED BAND EDGE MEASUREMENT

7.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05 Section 8.7.

7.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05 Section 8.7.

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

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

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

The EUT was operating in controlled its channel.

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

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.6.6 Test Results

EUT:	eufyCam	Model No.:	T8111
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu

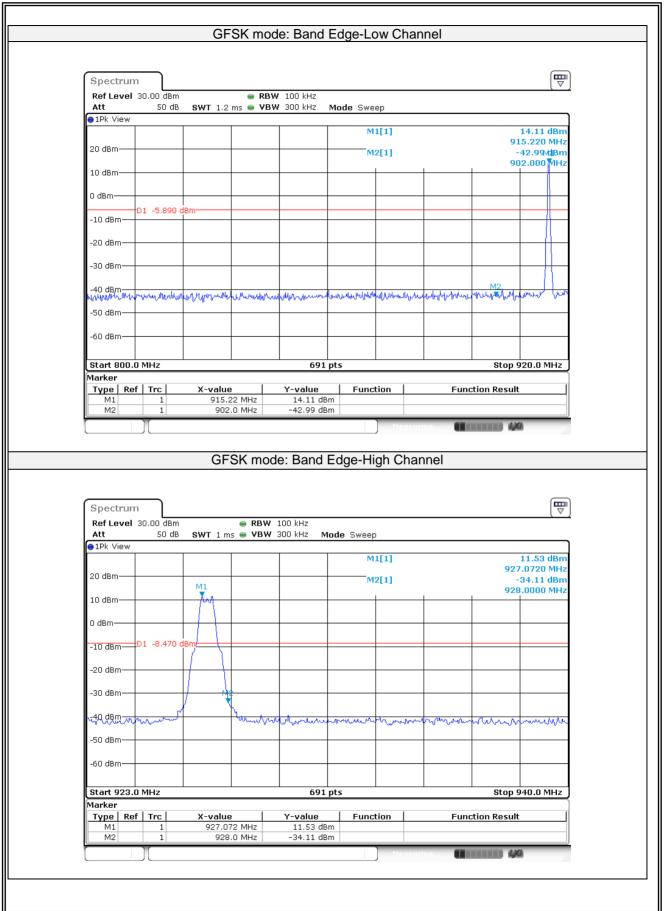


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7.7 SPURIOUS RF CONDUCTED EMISSIONS

7.7.1 Conformance Limit

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

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

7.7.2 Measuring Instruments

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

7.7.3 Test Setup

Please refer to Section 6.1 of this test report.

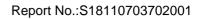
7.7.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequeny range from 9KHz to 26.5GHz.

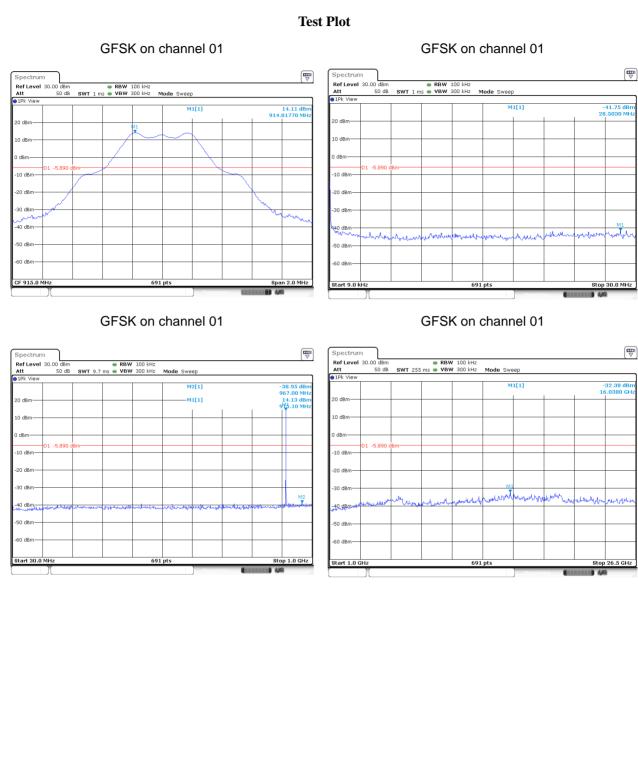
7.7.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

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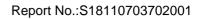






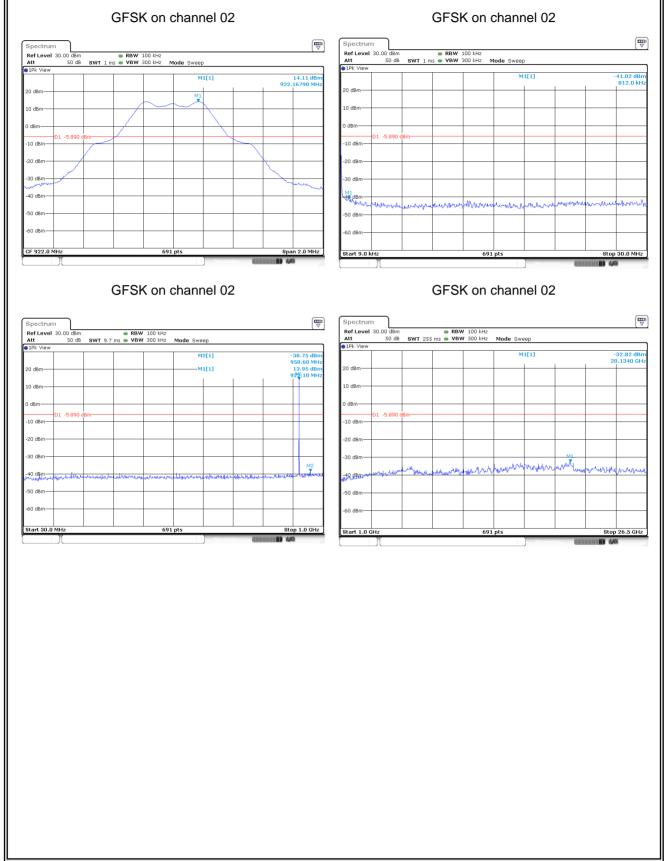
Version.1.2

NTEK北测





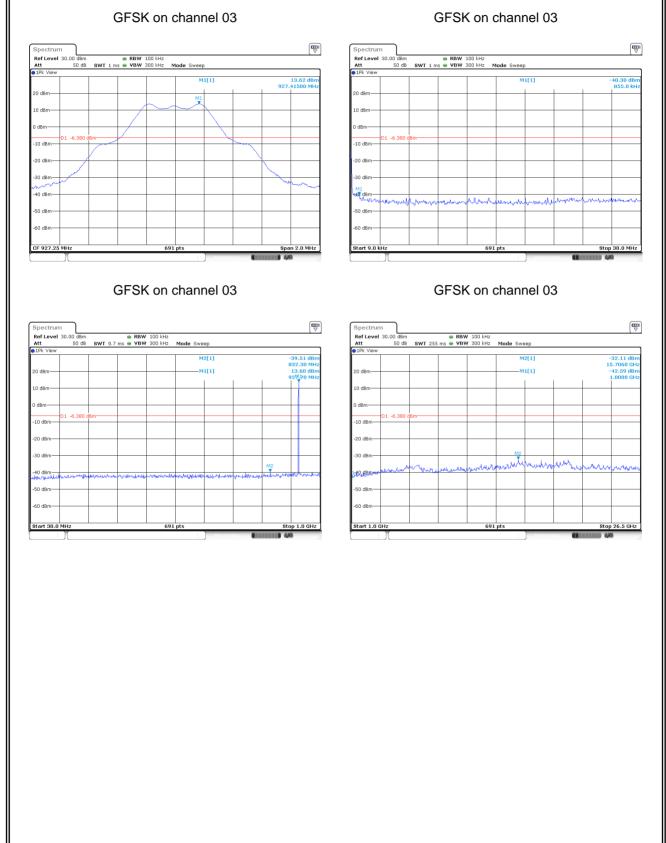




Report No.:S18110703702001











7.8 ANTENNA APPLICATION

7.8.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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7.8.2 Result

The EUT antenna is permanent attached LDS antenna(Gain:0dBi). It comply with the standard requirement.

END OF REPORT