

FCC RADIO TEST REPORT FCC ID:YVV-AEEAP11A001

Product: Aerial Photography Equipment

Trade Name: AEE

Model Name: AP11

Serial Model: AP11 +, AP11 Pro, AP11 A, AP11W

Report No.: NTEK-2015NT0721339F1

Prepared for

SHENZHEN AEE TECHNOLOGY CO., LTD.

AEE Hi-Tech Park, Tangtou Crossroads, Shiyan Town,
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name											
Address	AEE Hi-Tech Park, Tangtou Crossroads, Shiyan Town, Bao' an District Shenzhen, P.R.C.										
	Bao' an Distri	ct Shenzhe	n,P.R.C.								
Manufacture's Name			•								
Address	AEE Hi-Tech F	Park,Tangto	u Crossroads,Sh	niyan To	own,						
	Bao' an Distri	ct Shenzhe	n,P.R.C.								
Product description											
Product name	Aerial Photogra	aphy Equip	ment								
Model and/or type reference	AP11										
Serial Model	AP11 +, AP11	Pro, AP11 A	A, AP11W								
Standards	FCC Part15.24	17 01 Oct. 2	014								
Test procedure	ANSI C63.10- v03r02	-2013 and	KDB 558074	D01 [DTS	Meas	Guidance				
This device described all equipment under test (E to the tested sample ide	UT) is in compl	iance with t									
This report shall not be r	eproduced exc	ept in full, w	vithout the writte	n appro	oval of	NTEK,	this				
document may be altere	d or revised by	NTEK, pers	sonnel only, and	shall be	e note	d in the	revision of				
the document.											
Date of Test											
Date (s) of performance	of tests 24	Aug. 2015	~07 Sep. 2015								
Date of Issue											
Test Result											
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			\								
Testing	g Engineer	:	Bhu lin			_					
			(Allen Liu)								
Techni	cal Manager	:	Brown l	N		_					
			(Brown Lu))							
Author	ized Signatory	:	Sam. Che	:W							

(Sam Chen)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

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

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

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

Report No.: NTEK-2015NT0721339F1

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Aerial Photography Equipment					
Trade Name	AEE	E				
Model Name	AP11					
Product Description	5G Operation Frequency: Modulation Type: Number Of Channel Antenna Designation: Antenna Gain (dBi)	5734 MHz ~ 5800 MHz GFSK 9CH Please see Note 3. Please see Note 3.				
Channel List	Please refer to the No	ote 2.				
Ratings	DC 11.1V					
Adapter	N/A					
Battery	DC 11.1V, 5300mAh					
Connecting I/O Port(s)	Please refer to the Us	ser's Manual				



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

5GHz

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	5734	02	5738	03	5760	04	5766
05	5778	06	5782	07	5793	80	5796
09	5800	-	-	-	-	-	-

3

Table for Filed Antenna

101 1	101 Tiled / titterind											
Ant	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE							
Α	N/A	N/A	Wire Antenna	1.5	N/A							



2.2 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.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH05
Mode 3	CH09
Mode 4	Link Mode

For Radiated Emission								
Final Test Mode	Description							
Mode 1	CH01							
Mode 2	CH05							
Mode 3	CH09							
Mode 4	Link Mode							

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



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Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Brand	Model/Type No.	Series No.	Note
E-1	Aerial Photography Equipment	AEE	AP11	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (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 <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year

Conduction Test equipment

00110	Conduction Test equipment							
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period	
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year	
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year	
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year	
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year	
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year	
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year	

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected 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.
- b. 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 40 cm long.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP

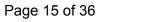


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





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•		n	1 - 3			

EUT:	Aerial Photography Equipment	Model Name. :	AP11
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	dBuV/m@at 3M		
FREQUENCT (IVITIZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted	1 Mile / 1 Mile for Dook 1 Mile / 10/1-for Average	
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



3.2.2 TEST PROCEDURE

- 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 open area test site. 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. 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.
- e. 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.
- f. 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	Peak	100 kHz	100 kHz
	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

No deviation



3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

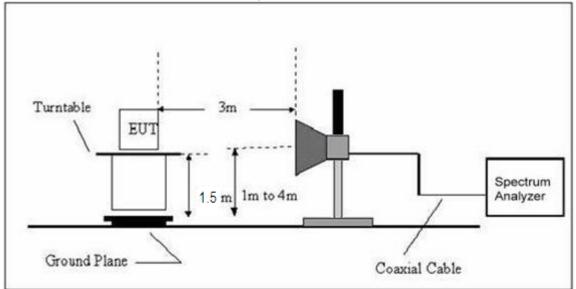


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	Aerial Photography Equipment	Model Name. :	AP11
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 11.1V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2015NT0721339F1

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
		1		N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



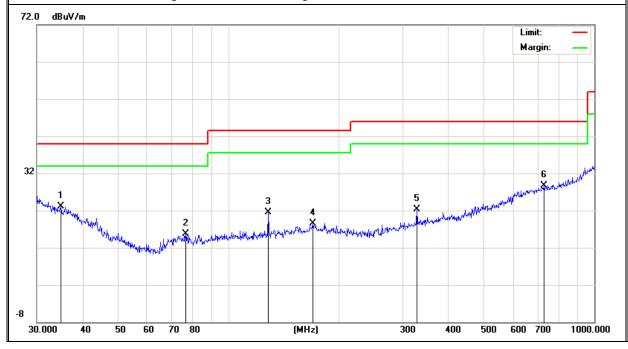
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
V	34.8823	5.88	17.28	23.16	40.00	-16.84	QP
V	76.5121	6.06	9.55	15.61	40.00	-24.39	QP
V	128.5629	10.72	10.83	21.55	43.50	-21.95	QP
V	170.1947	5.93	12.54	18.47	43.50	-25.03	QP
V	327.8872	8.75	13.56	22.31	46.00	-23.69	QP
V	729.3582	6.92	21.77	28.69	46.00	-17.31	QP

Remark:

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

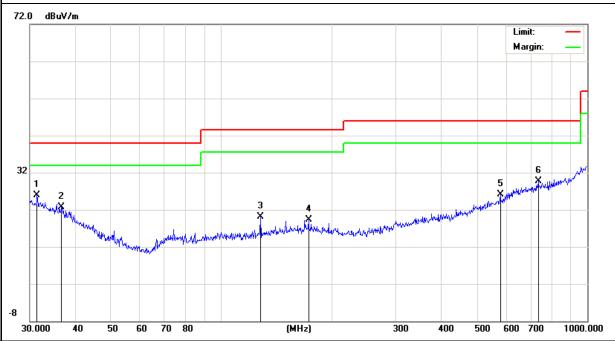




Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornark
Н	31.3992	6.88	19.07	25.95	40.00	-14.05	QP
Н	36.6375	6.04	16.57	22.61	40.00	-17.39	QP
Н	128.1127	9.21	10.80	20.01	43.50	-23.49	QP
Н	173.2050	6.98	12.40	19.38	43.50	-24.12	QP
Н	578.6698	7.26	18.77	26.03	46.00	-19.97	QP
Н	734.4913	7.88	21.88	29.76	46.00	-16.24	QP

Remark:

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





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		Low Char	nnel (573	4 MHz)-Abov	e 1G		
Vertical	11468.158	37.25	14.32	51.57	74	-22.43	Pk
Vertical	17202.236	36.69	16.39	53.08	74	-20.92	Pk
Horizontal	11468.255	36.58	14.32	50.9	74	-23.1	Pk
Horizontal	17202.369	37.22	16.39	53.61	74	-20.39	Pk
		Mid Char	nel (577	B MHz)-Above	9 1G		
Vertical	11556.266	37.15	14.34	51.49	74	-22.51	Pk
Vertical	17334.541	36.58	16.42	53	74	-21	Pk
Horizontal	11556.355	36.59	14.34	50.93	74	-23.07	Pk
Horizontal	17334.205	38.12	16.42	54.54	74	-19.46	Pk
	High Channel (5800 MHz)- Above 1G						
Vertical	11600.136	36.69	14.42	51.11	74	-22.89	Pk
Vertical	17400.247	36.59	16.48	53.07	74	-20.93	Pk
Horizontal	11600.366	37.25	14.42	51.67	74	-22.33	Pk
Horizontal	17400.177	37.44	16.57	54.01	74	-19.99	Pk



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 kHz.
- 4. Set the VBW ≥ 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

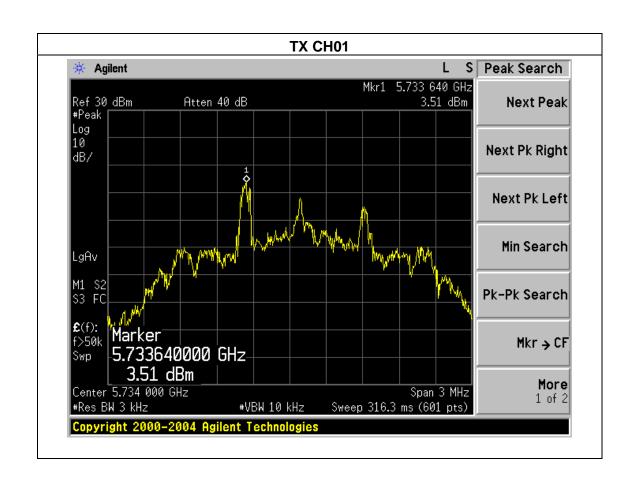


4.1.5 TEST RESULTS

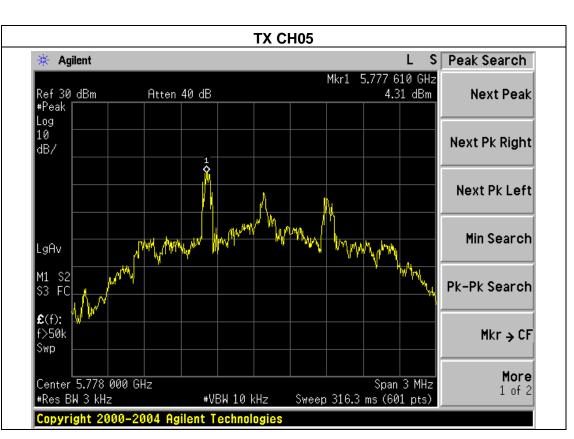
EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1015 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX /CH01, CH05, CH09		

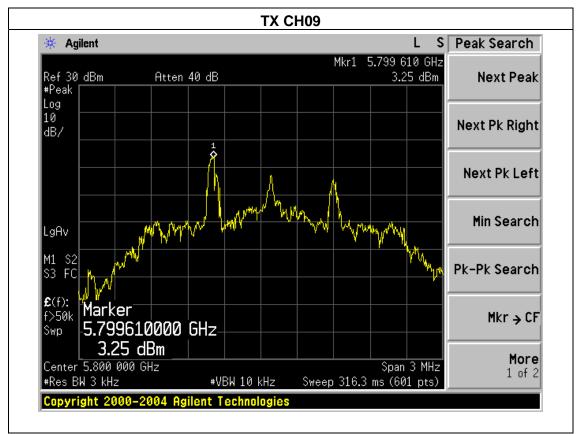
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Frequency	Power Density (dBm)	Limit (dBm)	Result
5734 MHz	3.51	8	PASS
5778 MHz	4.31	8	PASS
5800 MHz	3.25	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

	FC	CC Part15 (15.247) , Su	ubpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

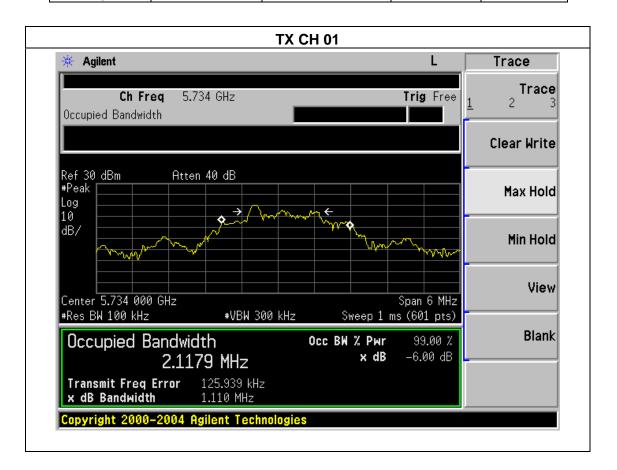
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



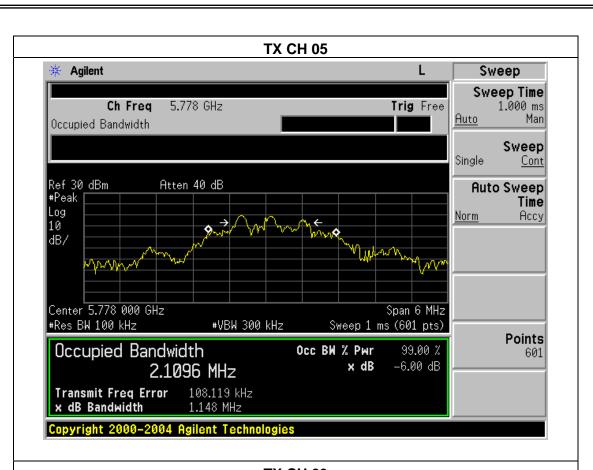
5.1.3 TEST RESULTS

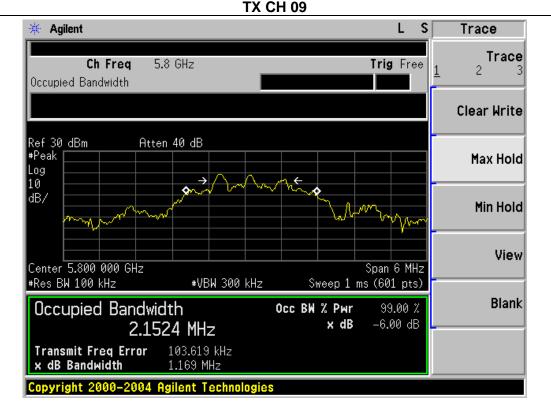
EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX /CH01, CH05, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	5734 MHz	1.110	500	Pass
Middle	5778 MHz	1.148	500	Pass
High	5800 MHz	1.169	500	Pass











6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.1.5 TEST RESULTS

EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX Mode		

Report No.: NTEK-2015NT0721339F1

	F	Maximum output p	ower. Antenna port	LINALT
Test Channel	Frequency	(PK)	(AV)	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	5734	12.69	9.59	30
CH05	5778	12.58	9.38	30
CH09	5800	12.39	9.26	30



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

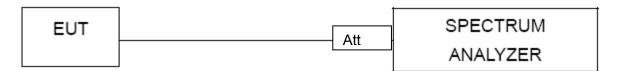
TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) 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.
- d) 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.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.4 TEST RESULTS

EUT:	Aerial Photography Equipment	Model Name :	AP11
Temperature :	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 11.1V

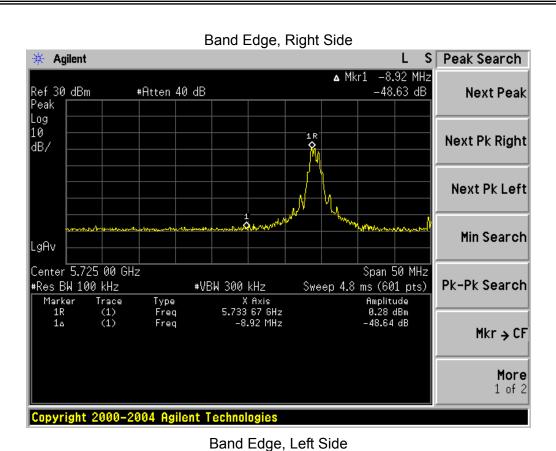
Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
5734	48.64	20	Pass
5800	47.34	20	Pass

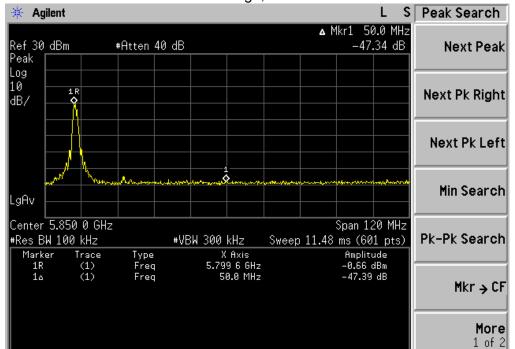
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
5734	42.13	11.79	53.92	74	-20.08	peak	Vertical
5734	41.54	11.79	53.33	74	-20.67	peak	Horizontal
5800	40.21	11.93	52.14	74	-21.86	peak	Vertical
5800	41.04	11.93	52.97	74	-21.03	peak	Horizontal

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.







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8. ANTENNA REQUIREMENT

8.1 STANDARD 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.

8.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requiremer	The E	EUT	antenna is	permanent	attached	l antenna.	It comply	v with	the	standard	requiremer
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9. EUT TEST PHOTO



