



FCC RADIO TEST REPORT-WIFI

FCC ID:2AGZG-AEEAP120001

Product : Aerial photography equipment

Trade Name : AEE

Model Name : AP12

Serial Model : AP12+, AP12 Pro, AP12 A, AP12W, AP12 Plus,
AP11B, AP11+, AP9+, AP10B, JP12, JP12+,
JP12 Pro, JP12 A, JP12W, JP12 Plus, JP11B,
JP11+, JP9+, JP10B

Report No. : NTEK-2015NT1020958F2

Prepared for

Shenzhen AEE Aviation Technology Co., Ltd.
AEE Hi-Tech Park, Tangtou Crossroads, Shiyan Town, Bao' an District
Shenzhen, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street
Bao'an District, Shenzhen P.R. China
Tel.: +86-0755-61156588 Fax.: +86-0755-61156599
Website: www.ntek.org.cn

TEST RESULT CERTIFICATION

Applicant's name Shenzhen AEE Aviation Technology Co.,Ltd.
Address..... AEE Hi-Tech Park,Tangtou Crossroads,Shiyan Town,Bao' an District
 Shenzhen,China

Manufacture's Name ... Shenzhen AEE Aviation Technology Co.,Ltd.
Address..... AEE Hi-Tech Park,Tangtou Crossroads,Shiyan Town,Bao' an District
 Shenzhen ,China

Product description

Product name Aerial photography equipment

Model and/or type AP12
reference

Serial Model AP12+,AP12 Pro,AP12 A,AP12W,AP12 Plus,AP11B, AP11+,
 AP9+, AP10B, JP12, JP12+,JP12 Pro, JP12 A, JP12W,
 JP12 Plus, JP11B, JP11+, JP9+, JP10B

Standards FCC Part15.247 01 Oct. 2015

Test procedure ANSI C63.10-2013 and KDB 558074: June 5, 2014

This device described above has been tested by NTEK, 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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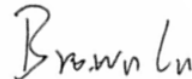
Date of Test

Date (s) of performance of tests..... 20 Oct. 2015 ~30 Nov. 2015

Date of Issue 30 Nov. 2015

Test Result **Pass**

Testing Engineer : 
 (Allen Liu)

Technical Manager : 
 (Brown Lu)

Authorized Signatory : 
 (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	PASS	
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.

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

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Aerial photography equipment	
Trade Name	AEE	
Model Name	AP12	
Serial Model	AP12+,AP12 Pro,AP12 A,AP12W,AP12 Plus,AP11B, AP11+, AP9+, AP10B, JP12, JP12+,JP12 Pro, JP12 A, JP12W, JP12 Plus, JP11B, JP11+, JP9+, JP10B	
Model Difference	All the model are the same circuit and RF module, except the model name and colour.	
Product Description	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz
	Modulation Type:	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20MHz:11CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	1.5 dBi
Channel List	Please refer to the Note 2.	
Ratings	DC 11.1V	
Adapter	Mode:HXY-126V5000A Input: 100-240V~, 50/60Hz, 1500mA Max Output:DC 12.6V---, 4A	
Battery	DC 11.1V, 6800mAh	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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

2.

Channel List for 802.11b/g/n(20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	FPCB Antenna	N/A	1.5	Wifi Antenna

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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	Link Mode

Note:

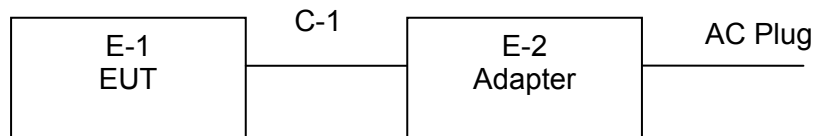
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) EUT configured to transmit continuously:

Mode	Data Rate
IEEE 802.11b	1 Mbps
IEEE 802.11g	6 Mbps
IEEE 802.11n20	MCS 7

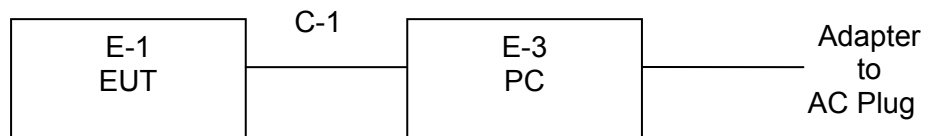
Operated Mode for Worst Duty Cycle	
Test Signal Duty Cycle (x)	Average correction factor (dB)
100% - IEEE 802.11b	0
100% - IEEE 802.11g	0
100% - IEEE 802.11n (HT20)	0

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

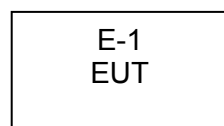
Conducted Emission Test 1



Conducted Emission Test 2



Radiated Spurious Emission Test



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	AP12	N/A	EUT
E-2	Adapter	N/A	AD1	N/A	
E-3	PC	lenovo	Y43p	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	

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 『Length』 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	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.06	2016.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.06	2016.06.05	1 year
6	Horn Antenna	EM	EM-AH-10180	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	2015.06.06	2016.06.05	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

Item	Kind of Equipment	Manufacturer	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	2015.06.06	2016.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.06	2016.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.06	2016.06.05	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.07.06	2016.07.05	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)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
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

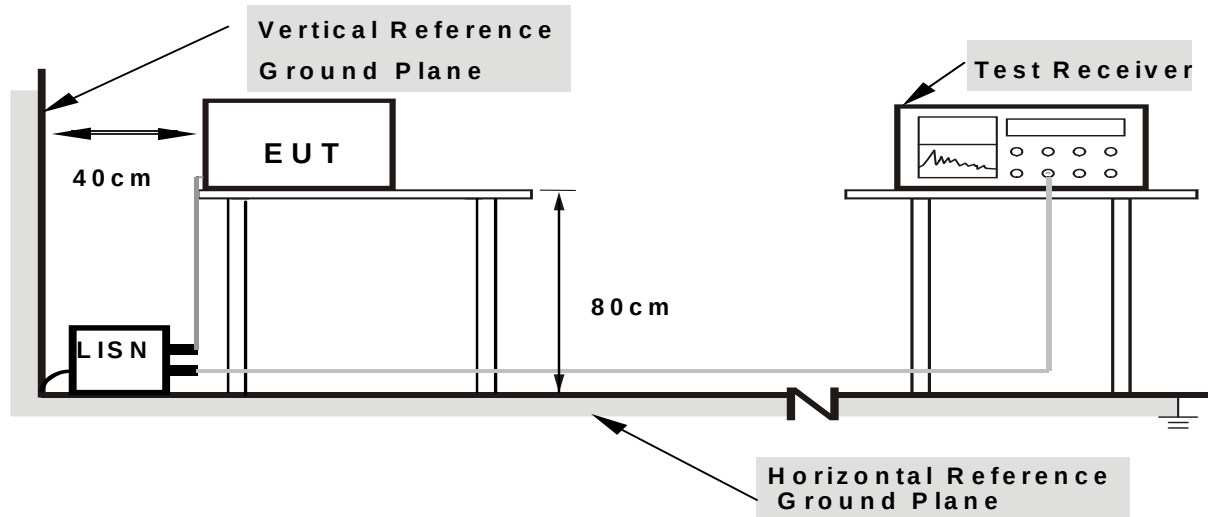
3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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.

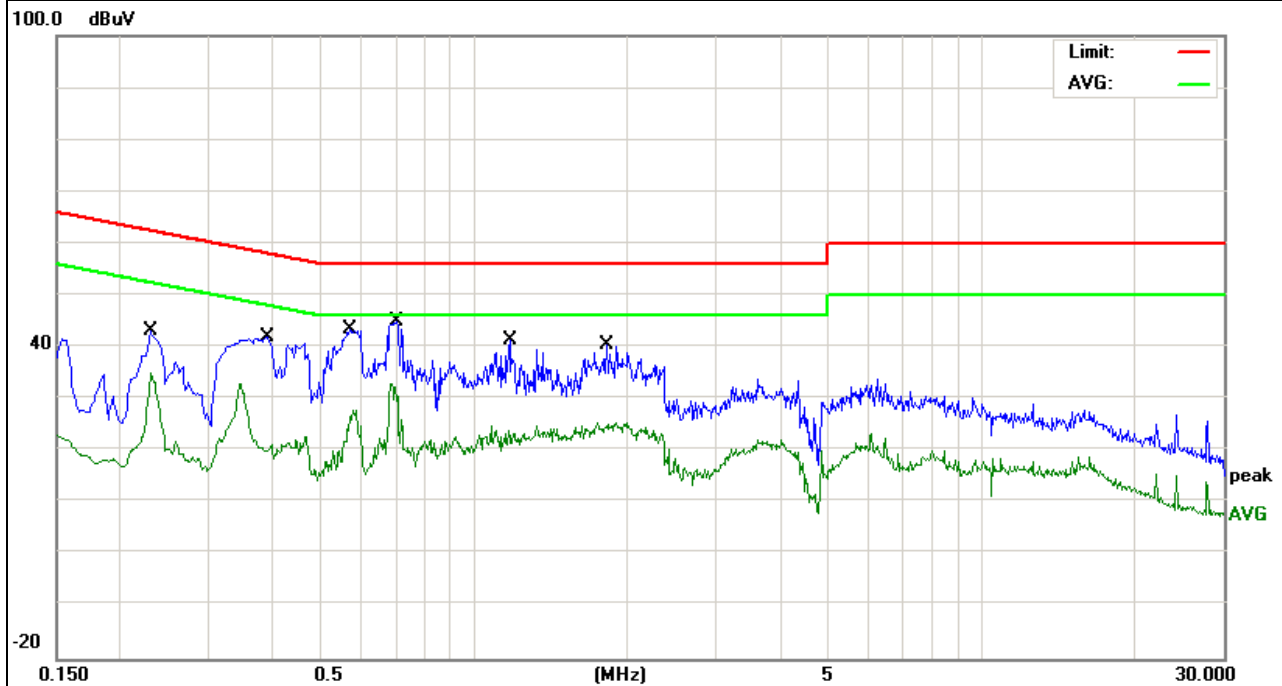
3.1.6 TEST RESULTS

EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2300	33.56	9.49	43.05	62.45	-19.40	QP
0.2300	19.83	9.49	29.32	52.45	-23.13	AVG
0.3899	32.64	9.20	41.84	58.06	-16.22	QP
0.3899	17.49	9.20	26.69	48.06	-21.37	AVG
0.5698	33.79	9.56	43.35	56.00	-12.65	QP
0.5698	17.56	9.56	27.12	46.00	-18.88	AVG
0.7018	35.27	9.57	44.84	56.00	-11.16	QP
0.7018	19.28	9.57	28.85	46.00	-17.15	AVG
1.1778	31.64	9.56	41.20	56.00	-14.80	QP
1.1778	15.09	9.56	24.65	46.00	-21.35	AVG
1.8220	30.77	9.57	40.34	56.00	-15.66	QP
1.8220	18.53	9.57	28.10	46.00	-17.90	AVG

Remark:

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

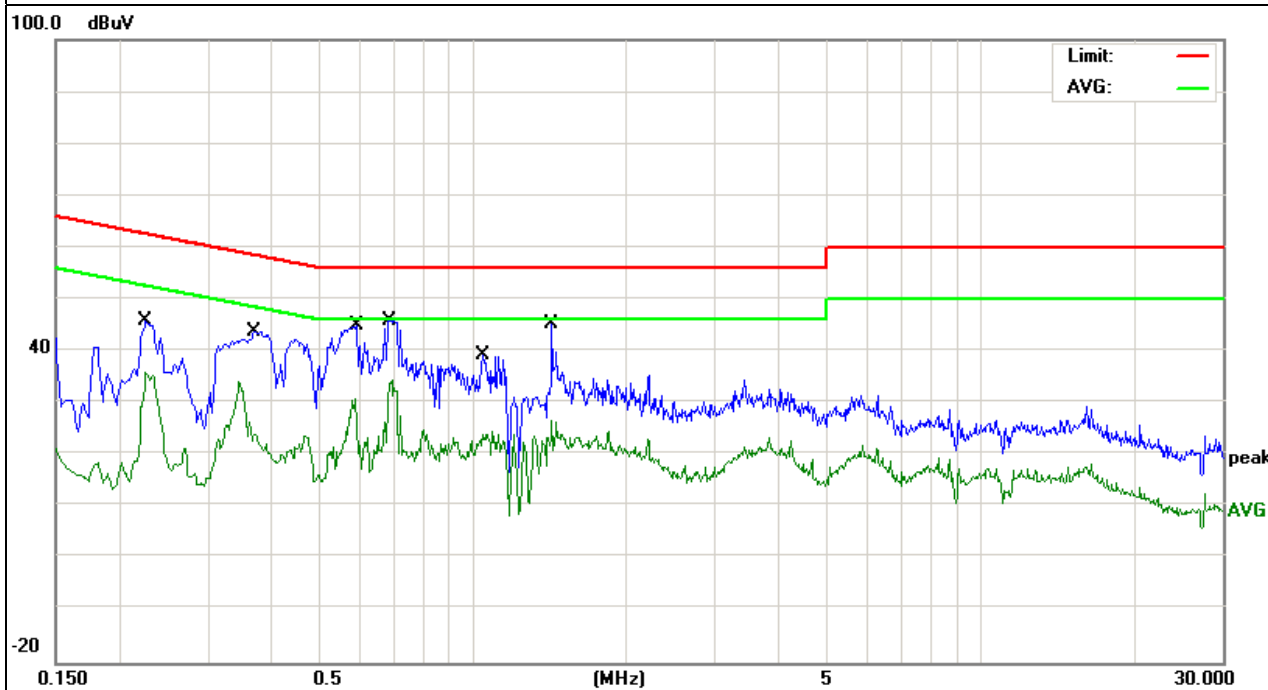


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2260	36.28	9.48	45.76	62.59	-16.83	QP
0.2260	22.54	9.48	32.02	52.59	-20.57	AVG
0.3700	34.57	9.28	43.85	58.50	-14.65	QP
0.3700	23.86	9.28	33.14	48.50	-15.36	AVG
0.5899	35.25	9.56	44.81	56.00	-11.19	QP
0.5899	21.02	9.56	30.58	46.00	-15.42	AVG
0.6860	36.29	9.57	45.86	56.00	-10.14	QP
0.6860	18.45	9.57	28.02	46.00	-17.98	AVG
1.0460	29.75	9.56	39.31	56.00	-16.69	QP
1.0460	17.13	9.56	26.69	46.00	-19.31	AVG
1.4260	35.76	9.57	45.33	56.00	-10.67	QP
1.4260	21.82	9.57	31.39	46.00	-14.61	AVG

Remark:

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

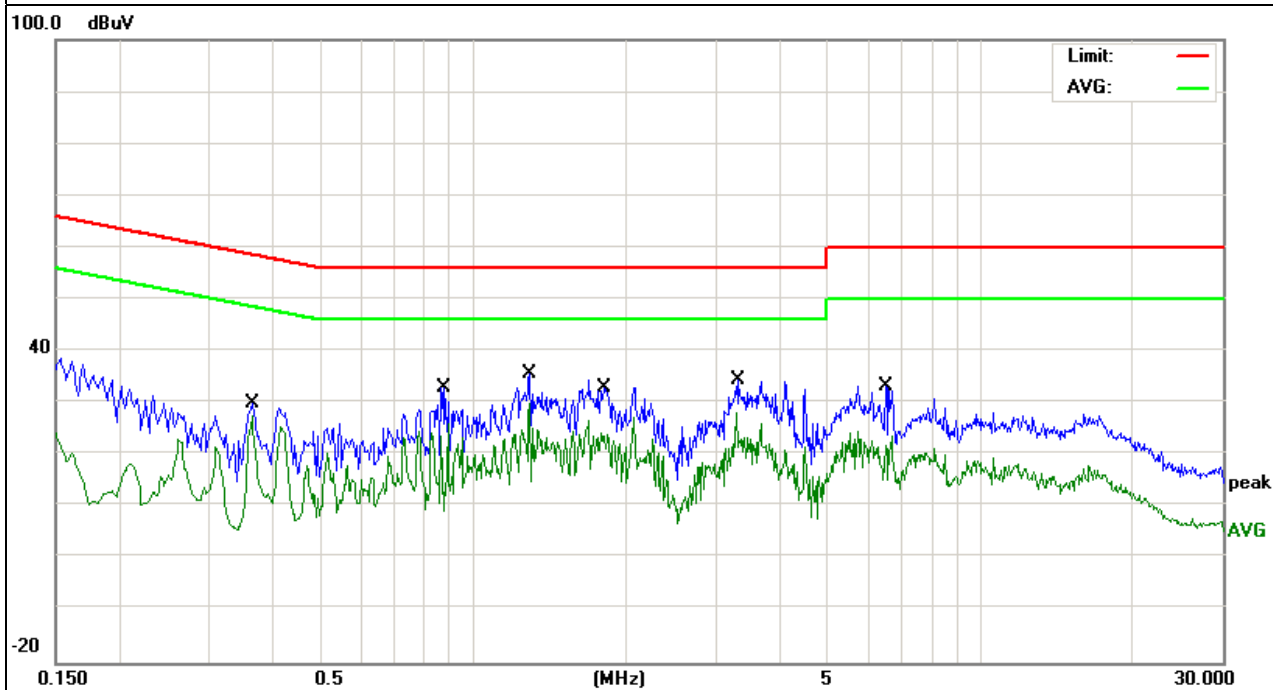


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3659	20.59	9.44	30.03	58.59	-28.56	QP
0.3659	10.93	9.44	20.37	48.59	-28.22	AVG
0.8780	23.42	9.44	32.86	56.00	-23.14	QP
0.8780	10.25	9.44	19.69	46.00	-26.31	AVG
1.2900	26.07	9.45	35.52	56.00	-20.48	QP
1.2900	15.89	9.45	25.34	46.00	-20.66	AVG
1.8180	23.62	9.46	33.08	56.00	-22.92	QP
1.8180	9.13	9.46	18.59	46.00	-27.41	AVG
3.3340	24.83	9.47	34.30	56.00	-21.70	QP
3.3340	13.00	9.47	22.47	46.00	-23.53	AVG
6.5179	23.87	9.51	33.38	60.00	-26.62	QP
6.5179	14.18	9.51	23.69	50.00	-26.31	AVG

Remark:

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

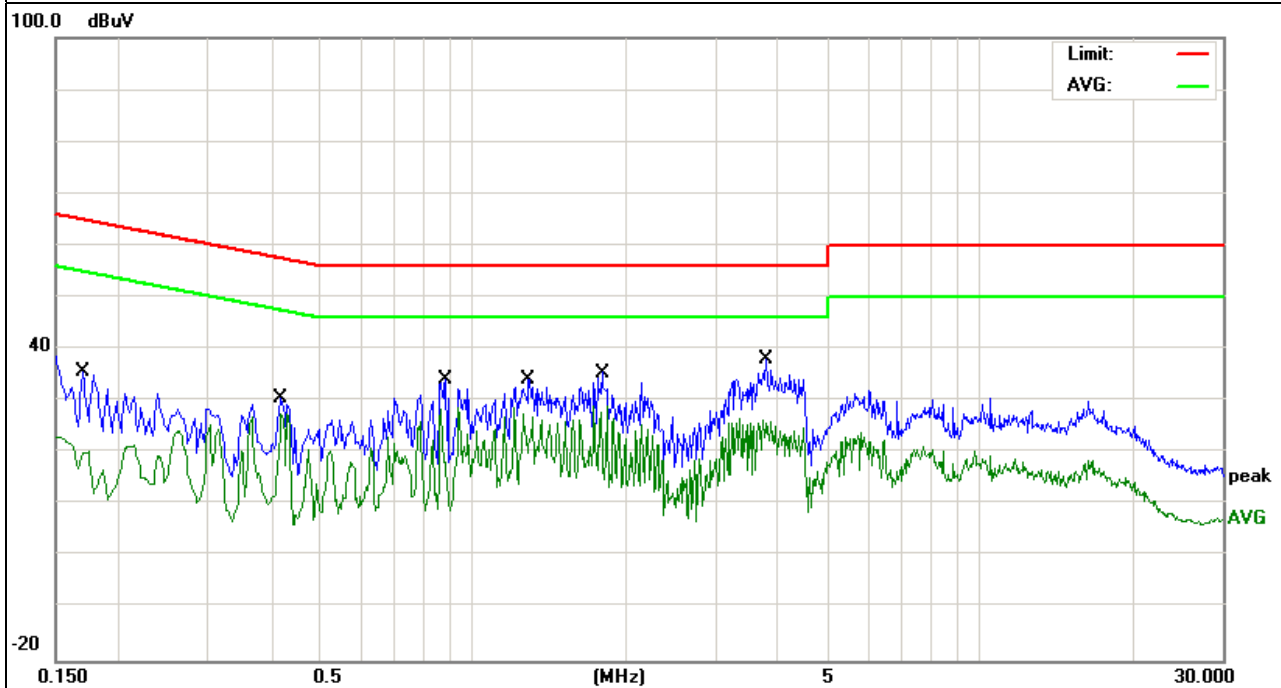


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	26.21	9.46	35.67	64.96	-29.29	QP
0.1700	13.56	9.46	23.02	54.96	-31.94	AVG
0.4179	21.13	9.44	30.57	57.49	-26.92	QP
0.4179	12.10	9.44	21.54	47.49	-25.95	AVG
0.8820	24.78	9.44	34.22	56.00	-21.78	QP
0.8820	11.14	9.44	20.58	46.00	-25.42	AVG
1.2860	24.85	9.45	34.30	56.00	-21.70	QP
1.2860	14.57	9.45	24.02	46.00	-21.98	AVG
1.7980	26.04	9.46	35.50	56.00	-20.50	QP
1.7980	12.12	9.46	21.58	46.00	-24.42	AVG
3.7900	28.70	9.47	38.17	56.00	-17.83	QP
3.7900	10.90	9.47	20.37	46.00	-25.63	AVG

Remark:

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

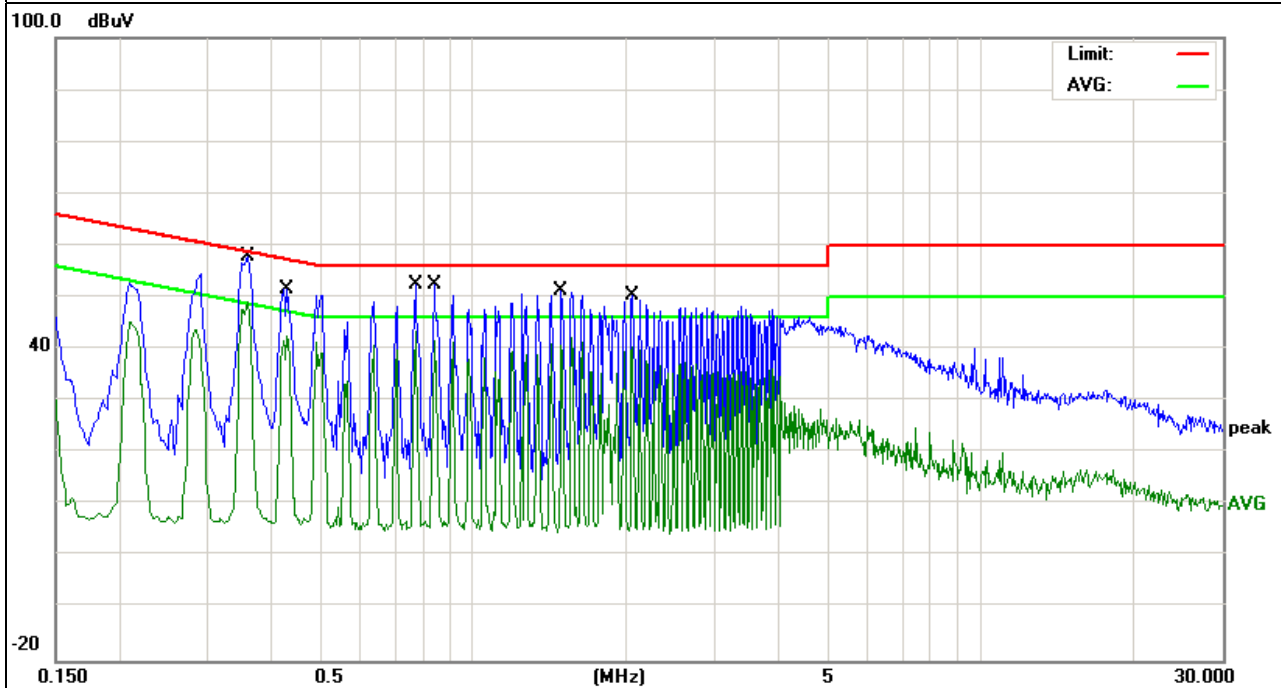


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3579	43.58	9.44	53.02	58.78	-5.76	QP
0.3579	30.78	9.44	40.22	48.78	-8.56	AVG
0.4299	42.21	9.45	51.66	57.25	-5.59	QP
0.4299	27.20	9.45	36.65	47.25	-10.60	AVG
0.7700	40.69	9.43	50.12	56.00	-5.88	QP
0.7700	26.26	9.43	35.69	46.00	-10.31	AVG
0.8379	42.89	9.43	52.32	56.00	-3.68	QP
0.8379	28.90	9.43	38.33	46.00	-7.67	AVG
1.4939	41.71	9.45	51.16	56.00	-4.84	QP
1.4939	27.20	9.45	36.65	46.00	-9.35	AVG
2.0579	40.88	9.46	50.34	56.00	-5.66	QP
2.0579	27.76	9.46	37.22	46.00	-8.78	AVG

Remark:

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

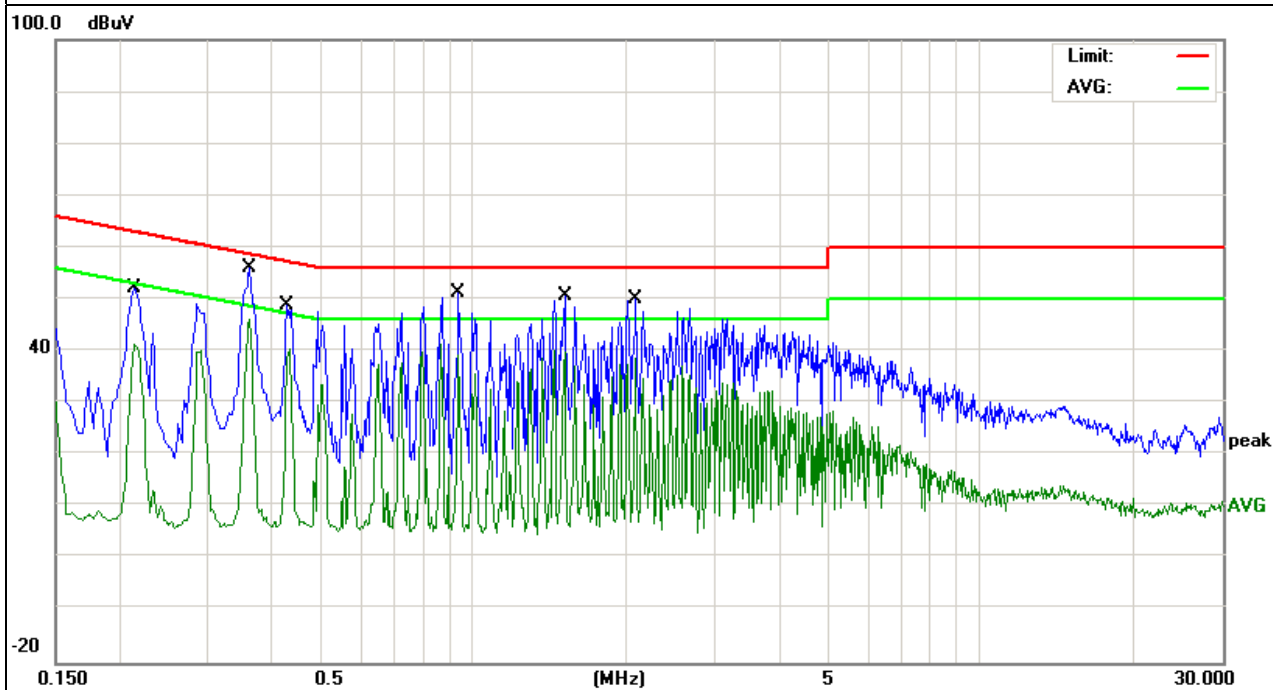


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2140	42.79	9.46	52.25	63.04	-10.79	QP
0.2140	26.65	9.46	36.11	53.04	-16.93	AVG
0.3620	45.56	9.44	55.00	58.68	-3.68	QP
0.3620	30.56	9.44	40.00	48.68	-8.68	AVG
0.4300	39.53	9.45	48.98	57.25	-8.27	QP
0.4300	25.67	9.45	35.12	47.25	-12.13	AVG
0.9380	41.66	9.44	51.10	56.00	-4.90	QP
0.9380	24.84	9.44	34.28	46.00	-11.72	AVG
1.5140	41.35	9.45	50.80	56.00	-5.20	QP
1.5140	30.62	9.45	40.07	46.00	-5.93	AVG
2.0900	40.45	9.46	49.91	56.00	-6.09	QP
2.0900	25.56	9.46	35.02	46.00	-10.98	AVG

Remark:

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

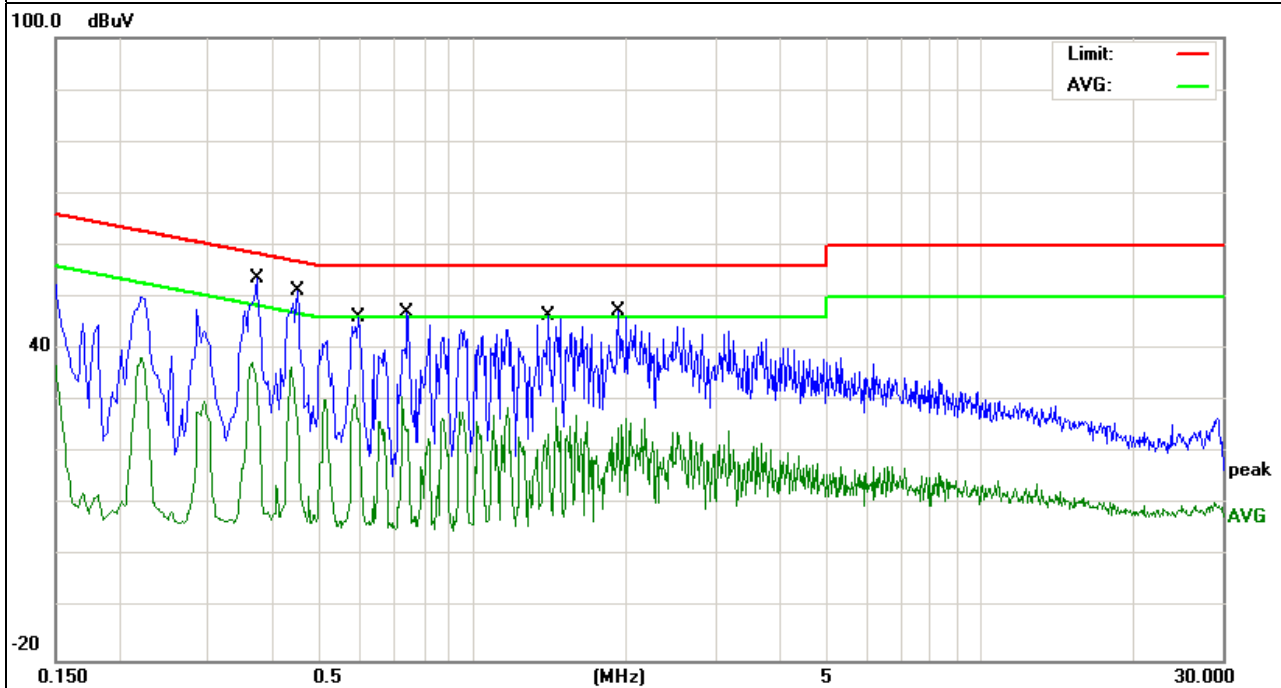


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3740	44.10	9.44	53.54	58.41	-4.87	QP
0.3740	28.12	9.44	37.56	48.41	-10.85	AVG
0.4500	41.75	9.45	51.20	56.87	-5.67	QP
0.4500	27.03	9.45	36.48	46.87	-10.39	AVG
0.5940	36.69	9.45	46.14	56.00	-9.86	QP
0.5940	24.24	9.45	33.69	46.00	-12.31	AVG
0.7420	37.59	9.43	47.02	56.00	-8.98	QP
0.7420	25.69	9.43	35.12	46.00	-10.88	AVG
1.4100	36.90	9.45	46.35	56.00	-9.65	QP
1.4100	21.24	9.45	30.69	46.00	-15.31	AVG
1.9340	37.78	9.46	47.24	56.00	-8.76	QP
1.9340	23.12	9.46	32.58	46.00	-13.42	AVG

Remark:

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

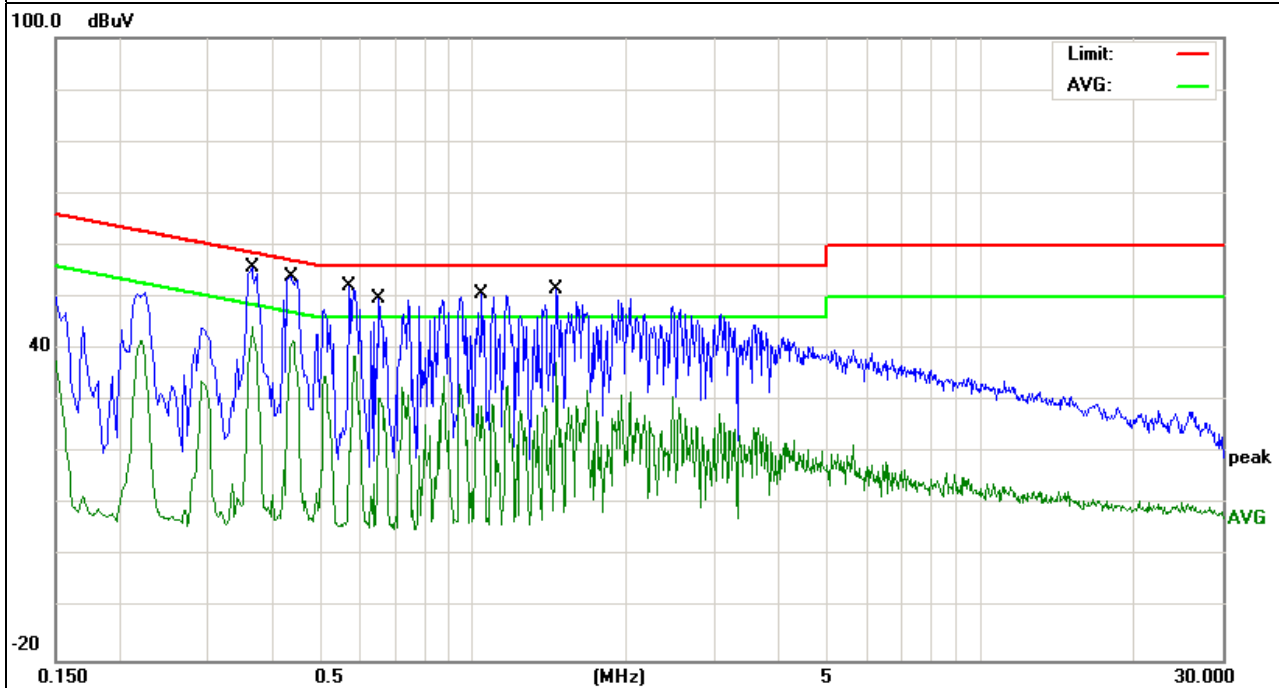


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3660	40.92	9.44	50.36	58.59	-8.23	QP
0.3660	34.94	9.44	44.38	48.59	-4.21	AVG
0.4380	44.51	9.45	53.96	57.10	-3.14	QP
0.4380	32.07	9.45	41.52	47.10	-5.58	AVG
0.5700	42.59	9.45	52.04	56.00	-3.96	QP
0.5700	29.32	9.45	38.77	46.00	-7.23	AVG
0.6540	40.34	9.44	49.78	56.00	-6.22	QP
0.6540	28.58	9.44	38.02	46.00	-7.98	AVG
1.0420	41.08	9.44	50.52	56.00	-5.48	QP
1.0420	25.58	9.44	35.02	46.00	-10.98	AVG
1.4619	42.03	9.45	51.48	56.00	-4.52	QP
1.4619	27.24	9.45	36.69	46.00	-9.31	AVG

Remark:

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



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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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	
	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 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 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:

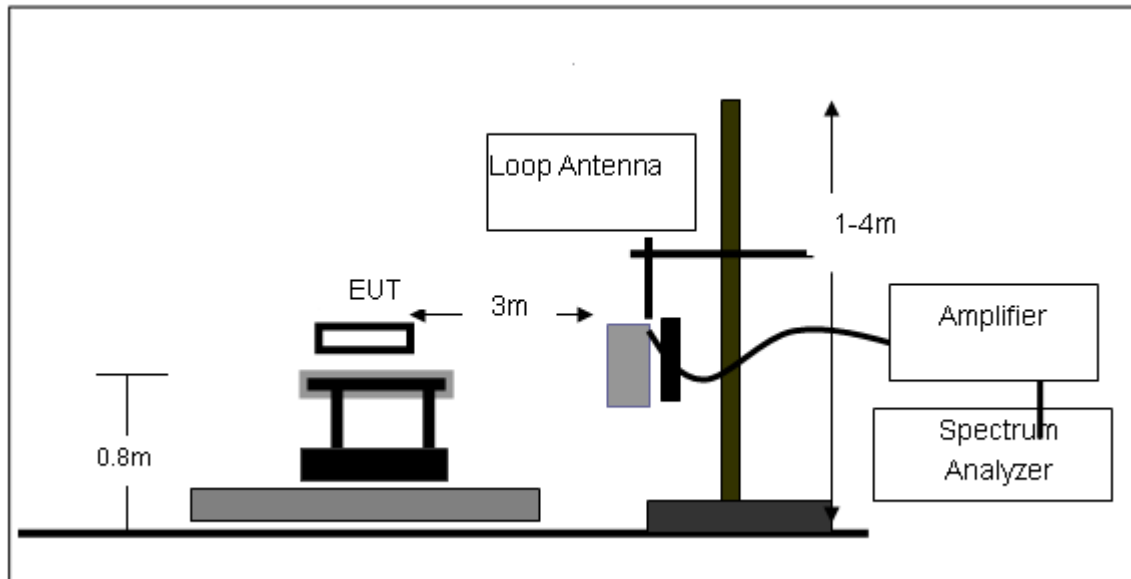
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

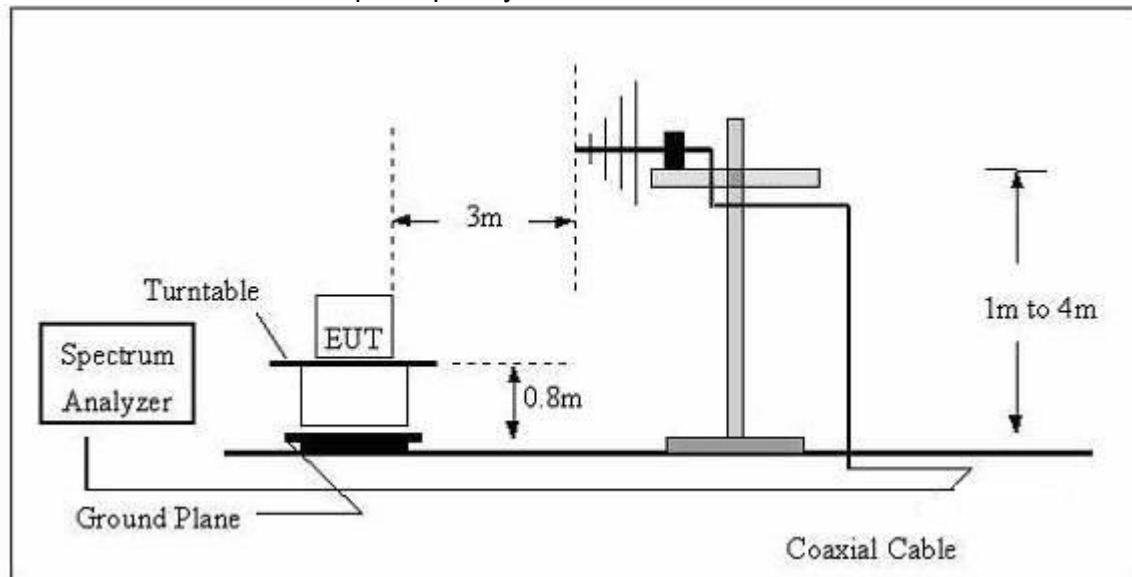
No deviation

3.2.4 TEST SETUP

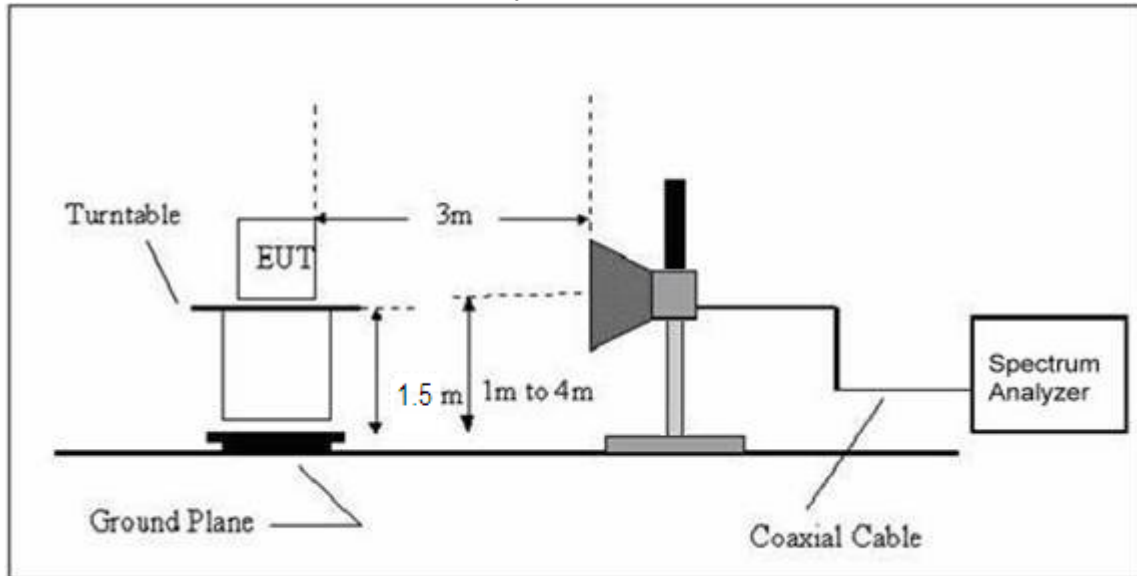
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 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. :	AP12
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	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 = $40 \log (\text{specific distance/test distance})$ (dB);

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

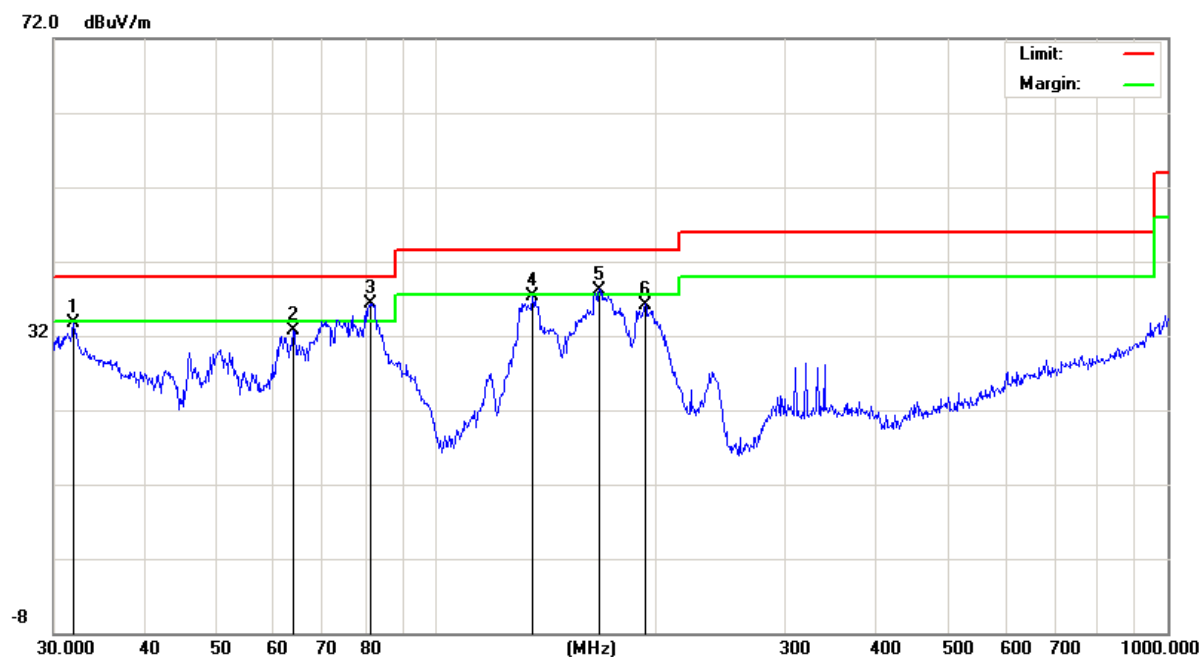
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX -802.11b(High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.9542	14.81	18.87	33.68	40.00	-6.32	QP
V	63.7588	27.03	5.66	32.69	40.00	-7.31	QP
V	81.2116	27.31	9.06	36.37	40.00	-3.63	QP
V	135.5062	26.43	10.97	37.40	43.50	-6.10	QP
V	167.2366	26.09	12.11	38.20	43.50	-5.30	QP
V	193.0945	24.82	11.38	36.20	43.50	-7.30	QP

Remark:

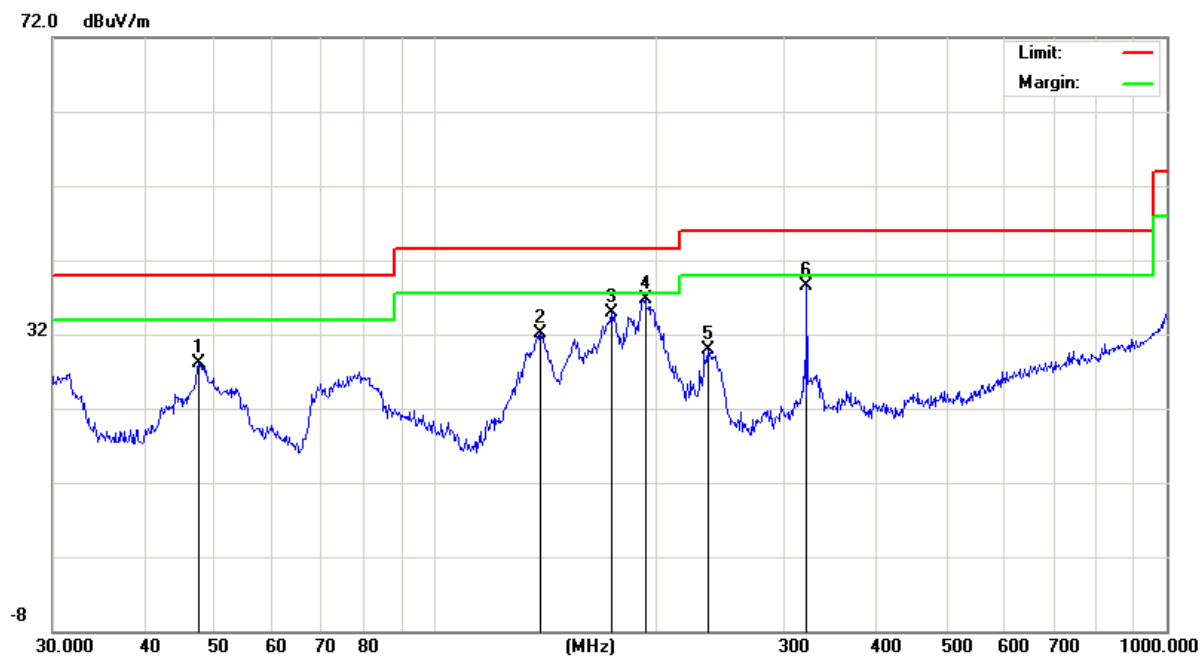
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	47.4917	18.01	10.06	28.07	40.00	-11.93	QP
H	139.3608	21.18	11.01	32.19	43.50	-11.31	QP
H	174.4241	22.58	12.34	34.92	43.50	-8.58	QP
H	193.7726	25.34	11.39	36.73	43.50	-6.77	QP
H	235.8163	19.11	10.77	29.88	46.00	-16.12	QP
H	322.1886	25.12	13.31	38.43	46.00	-7.57	QP

Remark:

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



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (2412 MHz)-Above 1G							
Vertical	4824.022	51.6	10.44	62.04	74.00	-11.96	Pk
Vertical	4824.022	33.16	10.44	43.60	54.00	-10.40	Av
Vertical	7236.025	44.81	12.39	57.20	74.00	-16.80	Pk
Vertical	7236.025	29.09	12.39	41.48	54.00	-12.52	Av
Horizontal	4824.112	53.35	10.44	63.79	74.00	-10.21	Pk
Horizontal	4824.112	32.07	10.44	42.51	54.00	-11.49	Av
Horizontal	7236.458	45.51	12.39	57.90	74.00	-16.10	Pk
Horizontal	7236.458	30.65	12.39	43.04	54.00	-10.96	Av
Mid Channel (2437 MHz)-Above 1G							
Vertical	4874.336	51.01	10.40	61.41	74.00	-12.59	Pk
Vertical	4874.336	31.93	10.40	42.33	54.00	-11.67	Av
Vertical	7311.024	44.67	12.75	57.42	74.00	-16.58	Pk
Vertical	7311.024	27.66	12.75	40.41	54.00	-13.59	Av
Horizontal	4874.339	51.78	10.40	62.18	74.00	-11.82	Pk
Horizontal	4874.339	33.01	10.40	43.41	54.00	-10.59	Av
Horizontal	7311.045	47.89	12.75	60.64	74.00	-13.36	Pk
Horizontal	7311.045	28.58	12.75	41.33	54.00	-12.67	Av
High Channel (2462 MHz)- Above 1G							
Vertical	4924.334	50.95	10.39	61.34	74.00	-12.66	Pk
Vertical	4924.334	32.58	10.39	42.97	54.00	-11.03	Av
Vertical	7386.085	44.35	12.68	57.03	74.00	-16.97	Pk
Vertical	7386.085	27.99	12.68	40.67	54.00	-13.33	Av
Horizontal	4924.117	50.98	10.39	61.37	74.00	-12.63	Pk
Horizontal	4924.117	33.08	10.39	43.47	54.00	-10.53	Av
Horizontal	7386.047	47.37	12.68	60.05	74.00	-13.95	Pk
Horizontal	7386.047	28.67	12.68	41.35	54.00	-12.65	Av

Note:"802.11b" mode is the worst mode.

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	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 $\leq$ Set the RBW $\leq$ 100 kHz.
4. Set the VBW $\geq$ 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



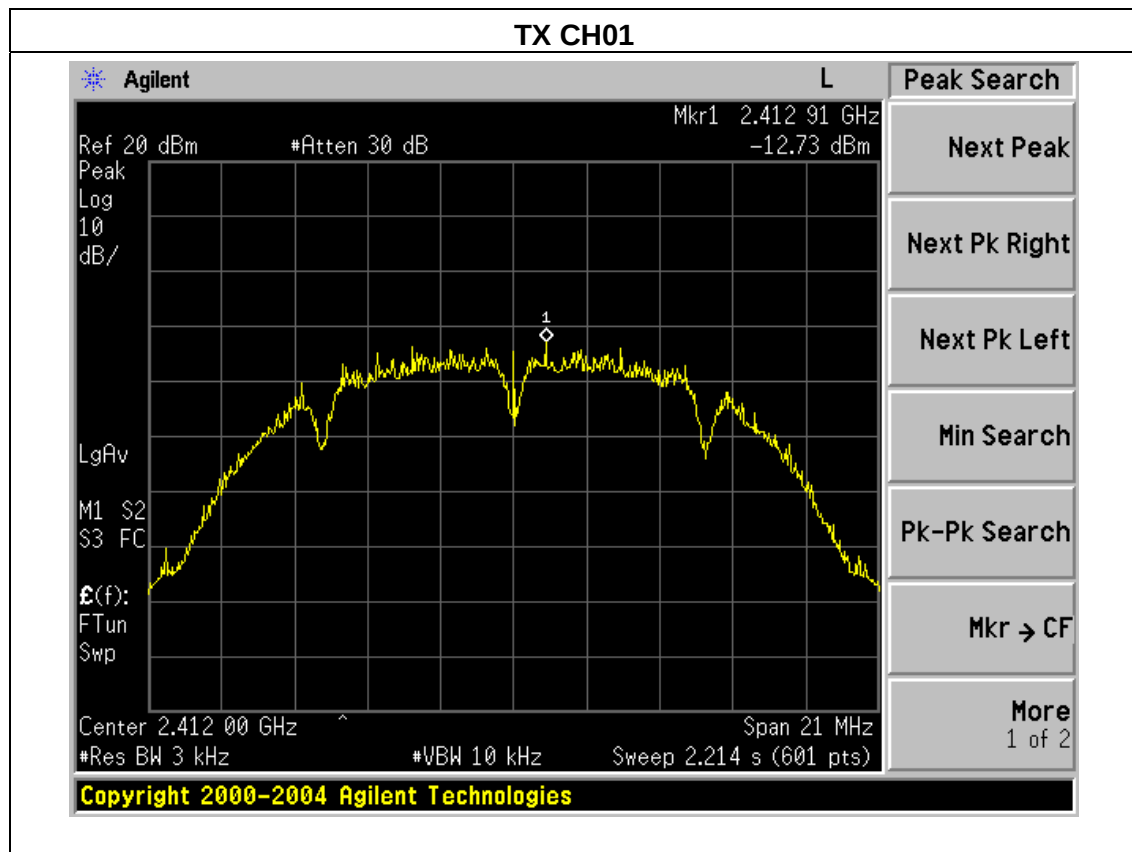
4.1.4 EUT OPERATION CONDITIONS

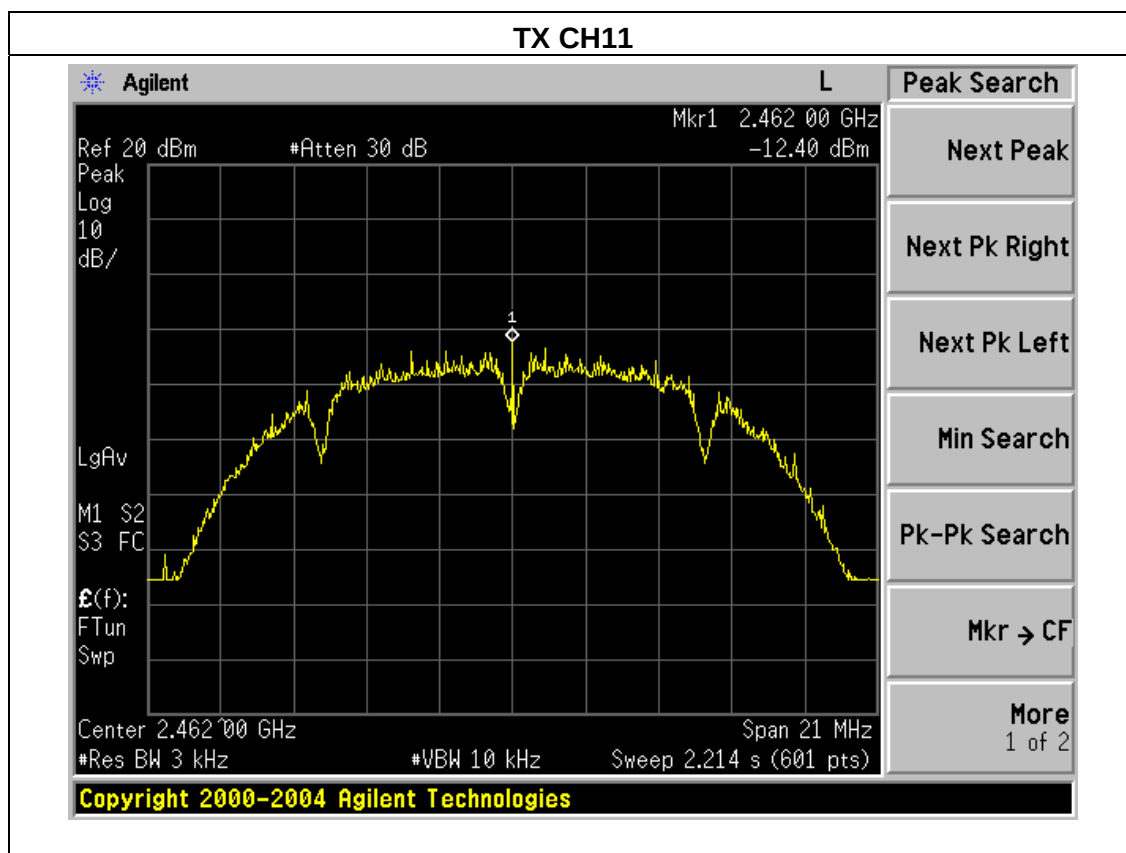
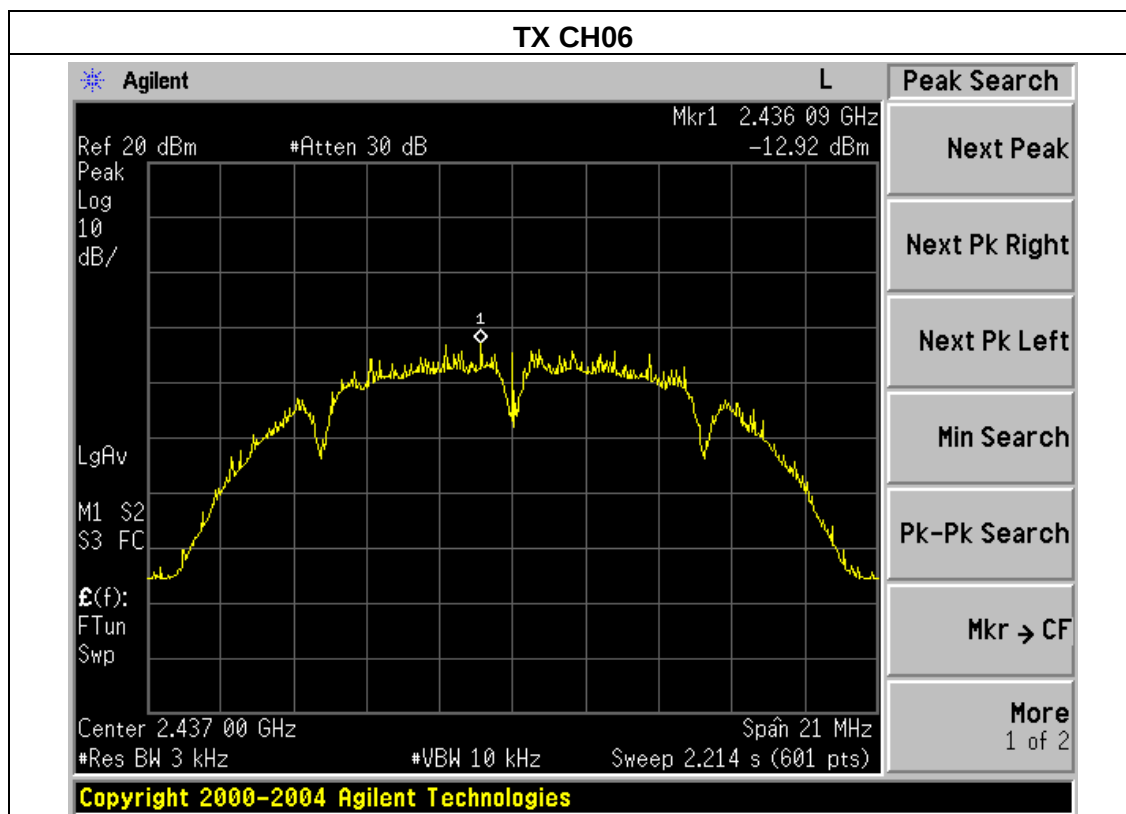
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX b Mode /CH01, CH06, CH11		

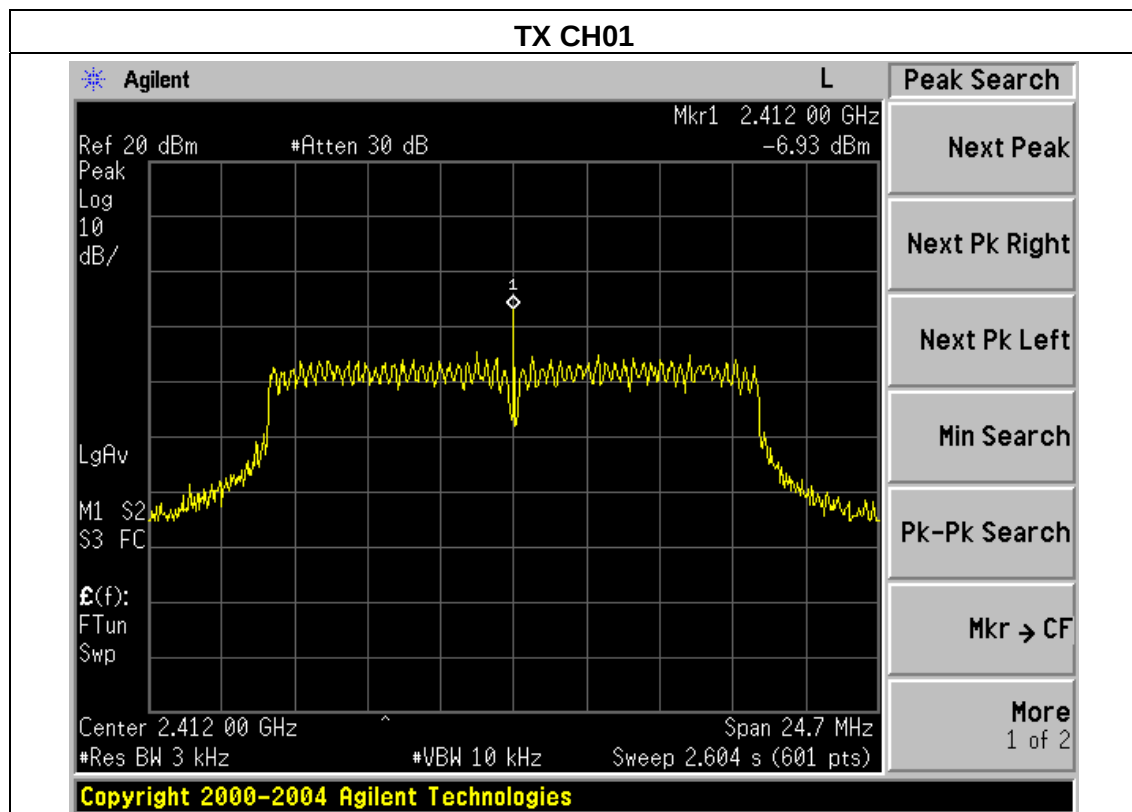
Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-12.73	8	PASS
2437 MHz	-12.92	8	PASS
2462 MHz	-12.40	8	PASS

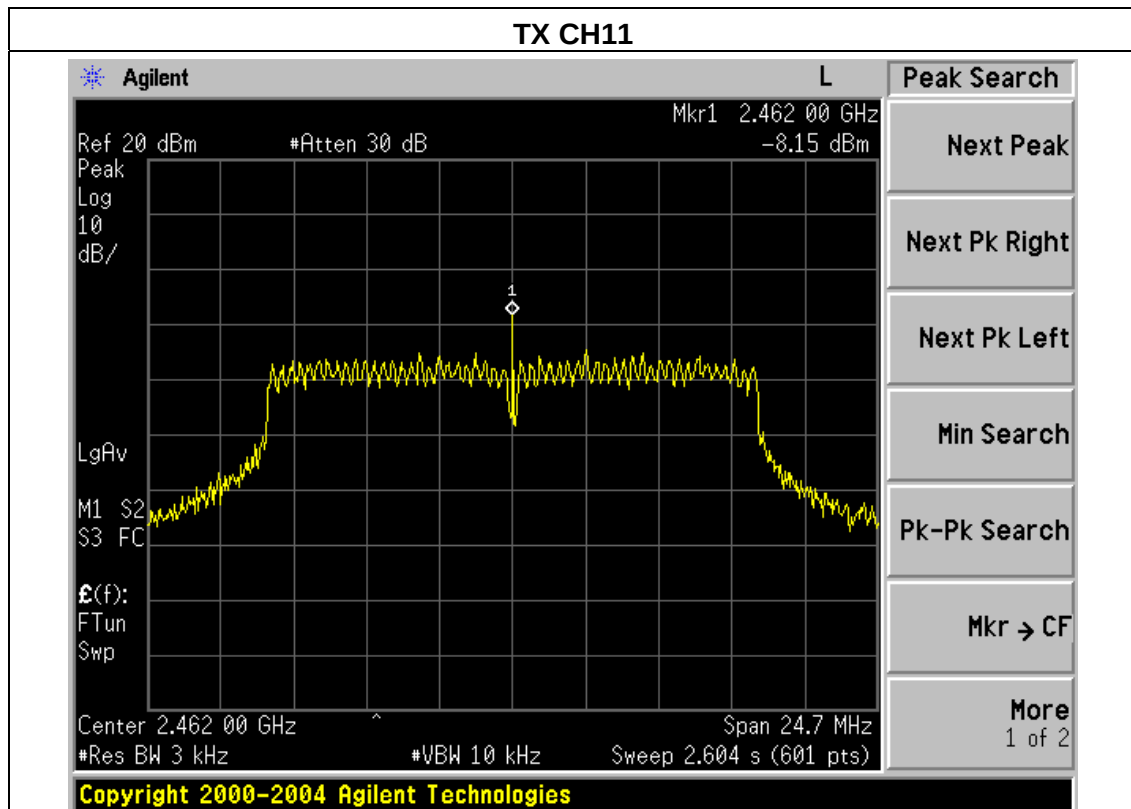
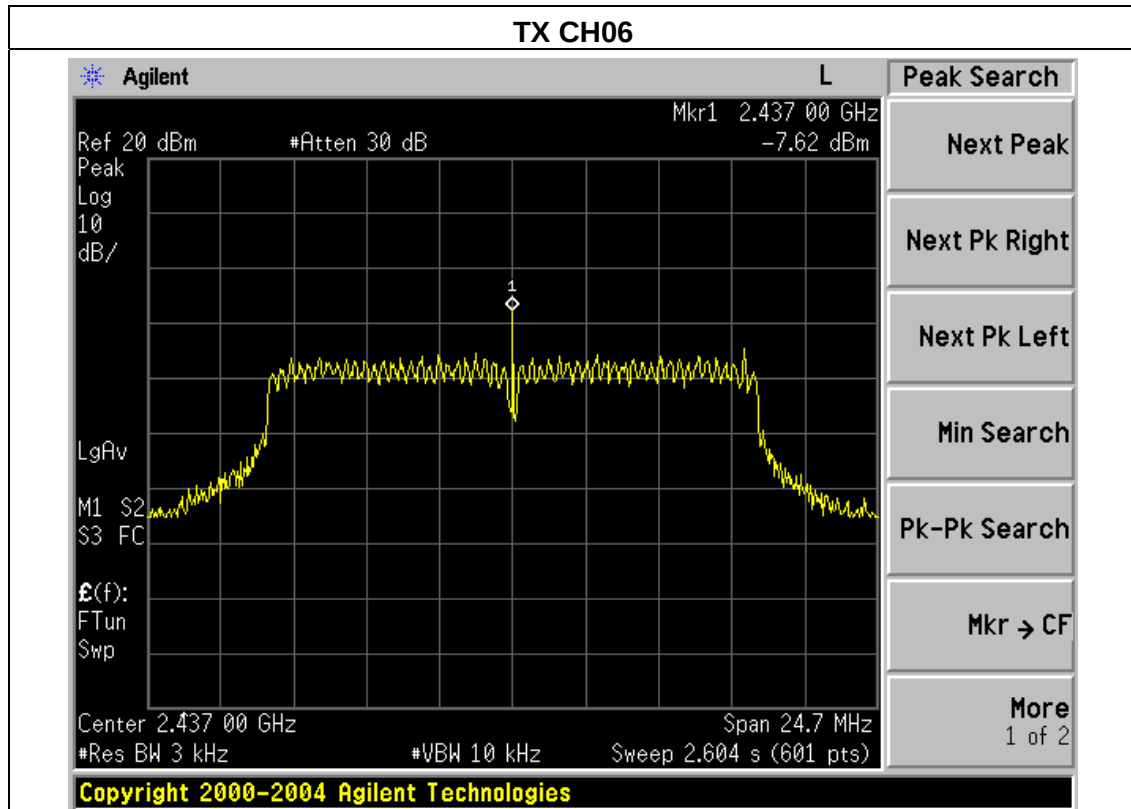




EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX g Mode /CH01, CH06, CH11		

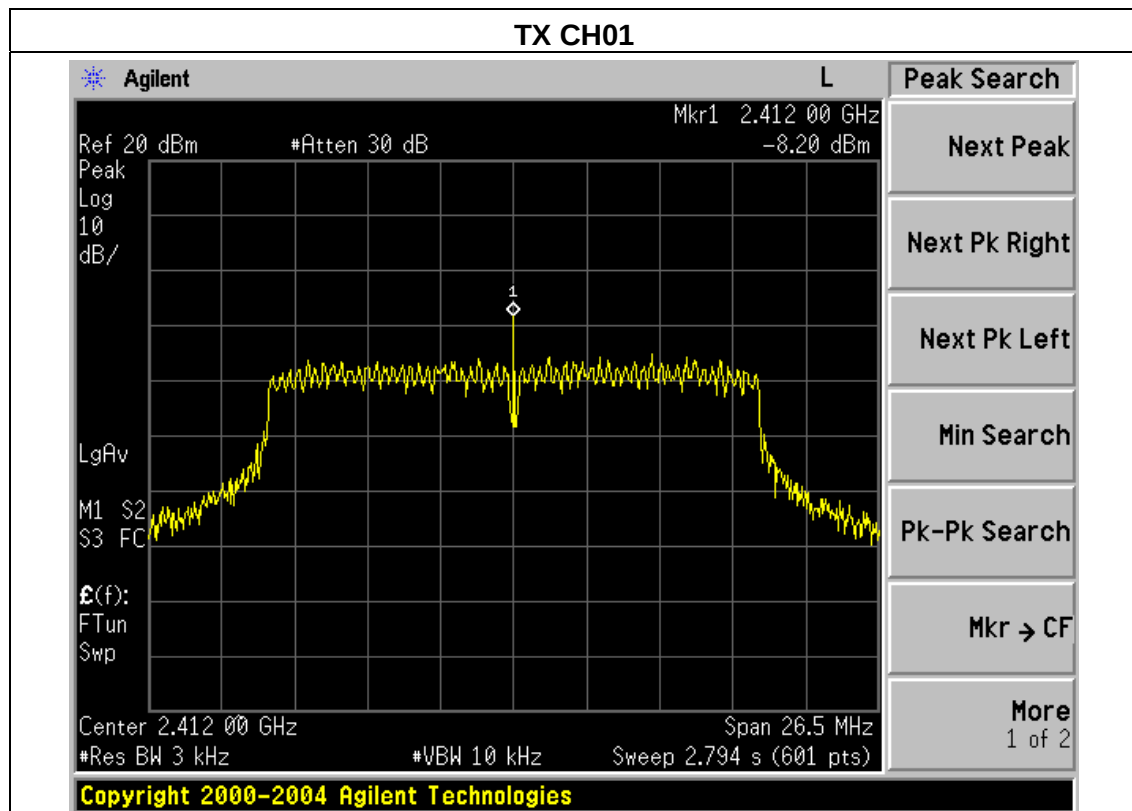
Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-6.93	8	PASS
2437 MHz	-7.62	8	PASS
2462 MHz	-8.15	8	PASS

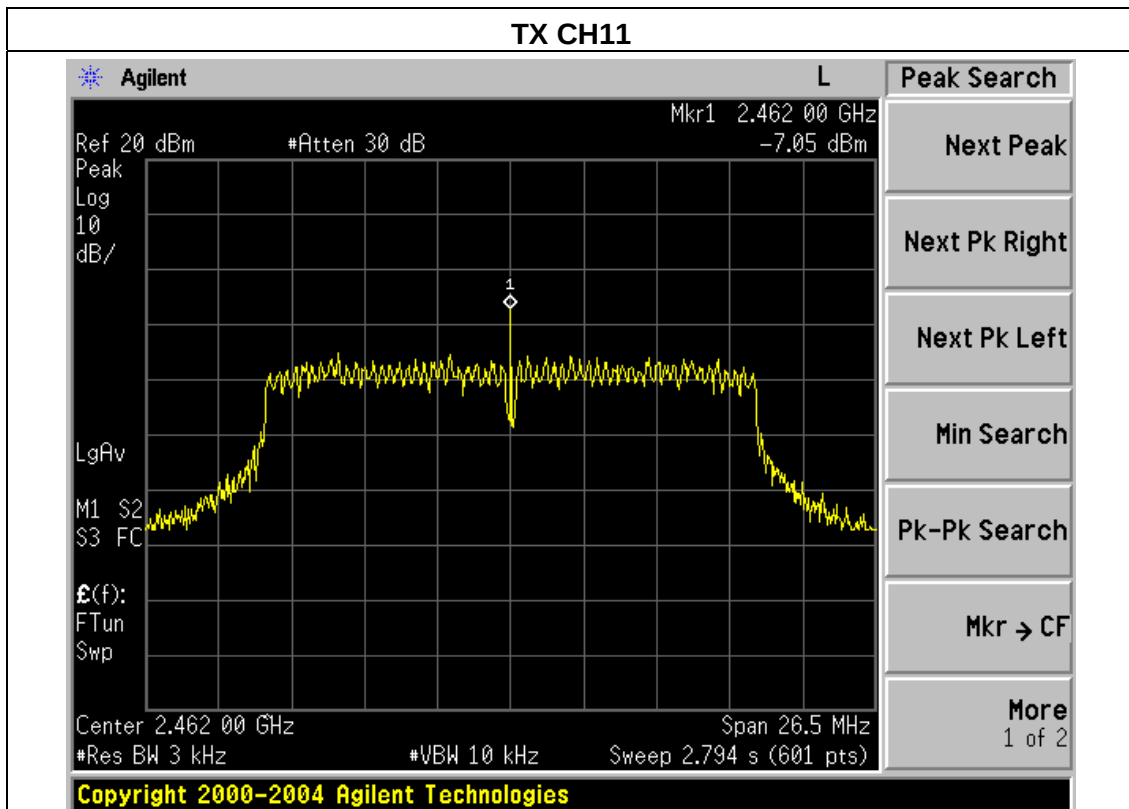
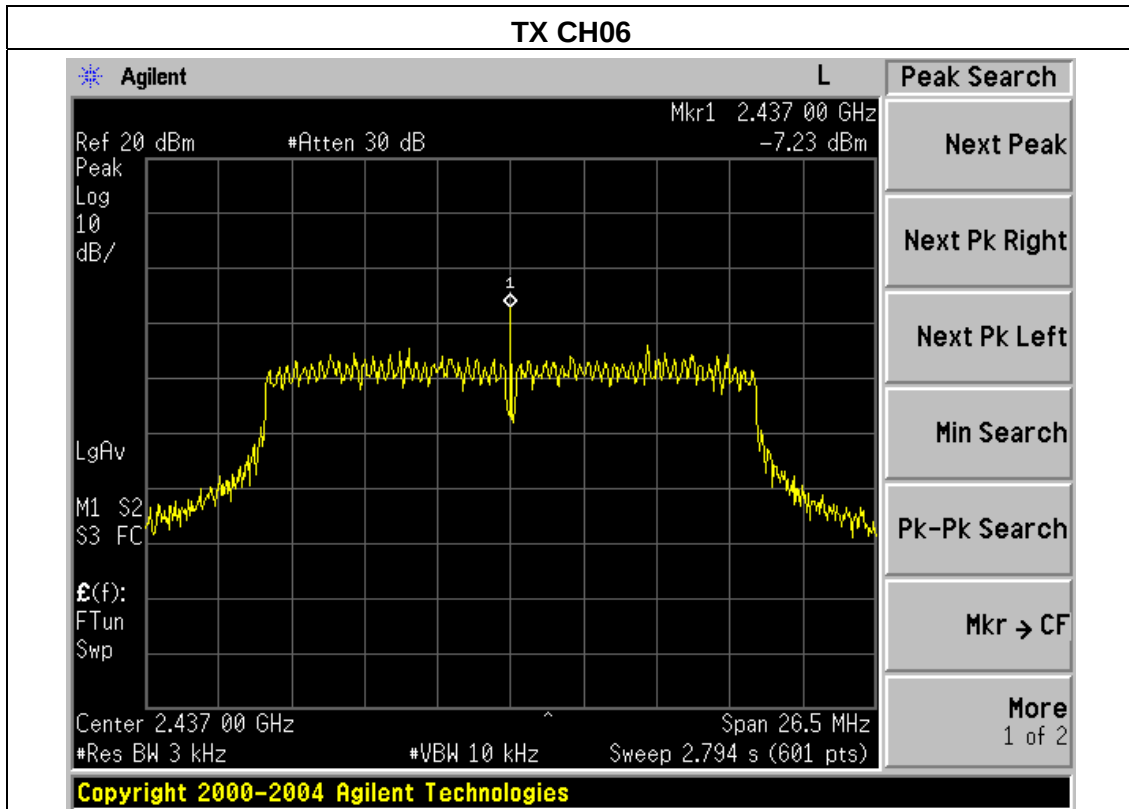




EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX n Mode (20MHz)/CH01, CH06, CH11		

Frequency	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412 MHz	-8.20	8	PASS
2437 MHz	-7.23	8	PASS
2462 MHz	-7.05	8	PASS





5. BANDWIDTH TEST

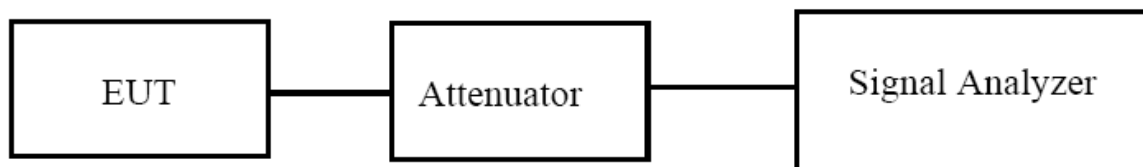
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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



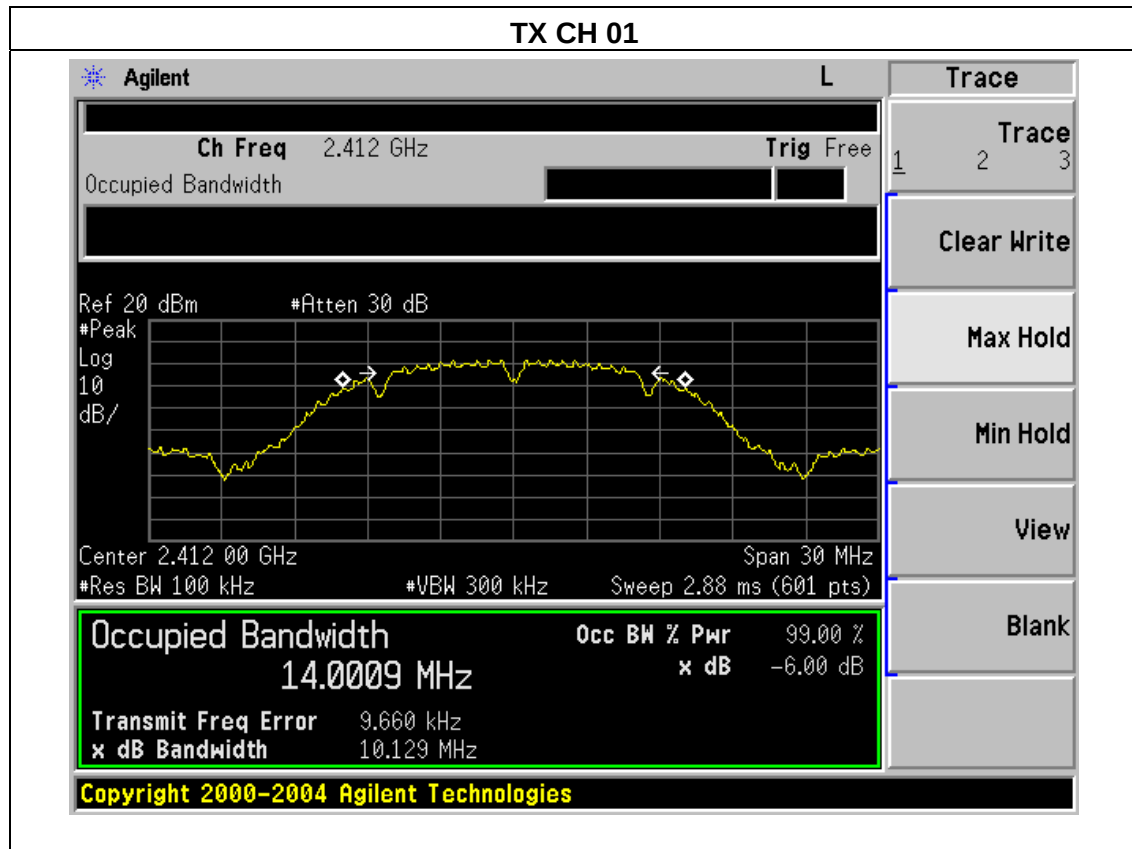
5.1.2 EUT OPERATION CONDITIONS

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.

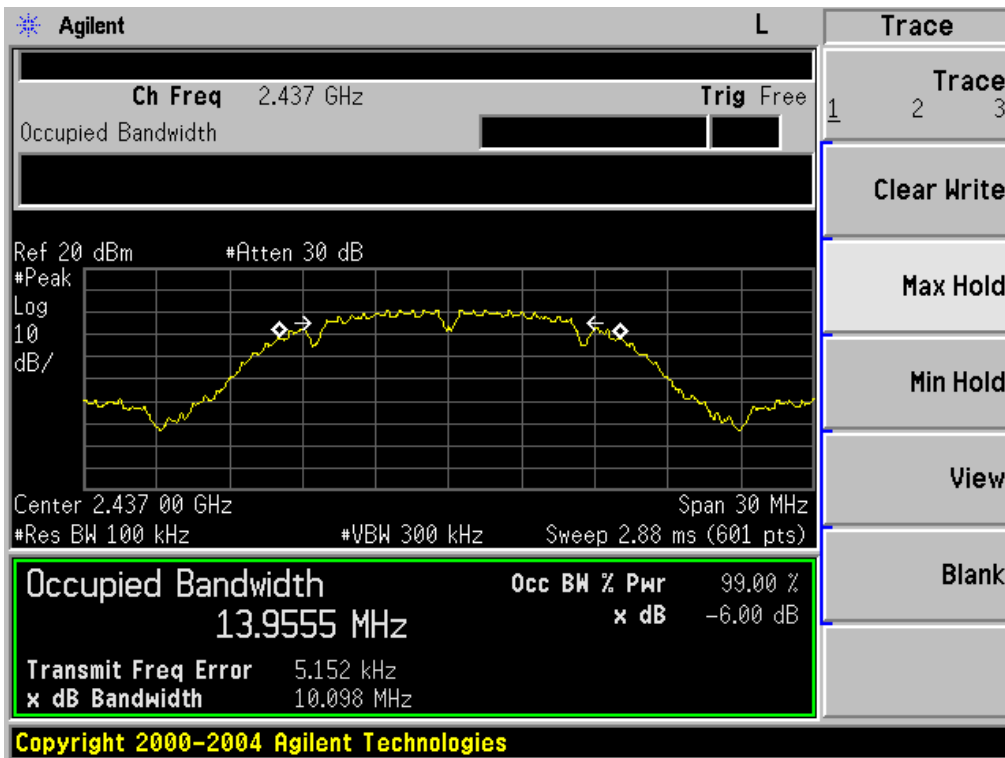
5.1.3 TEST RESULTS

EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX b Mode /CH01, CH06, CH11		

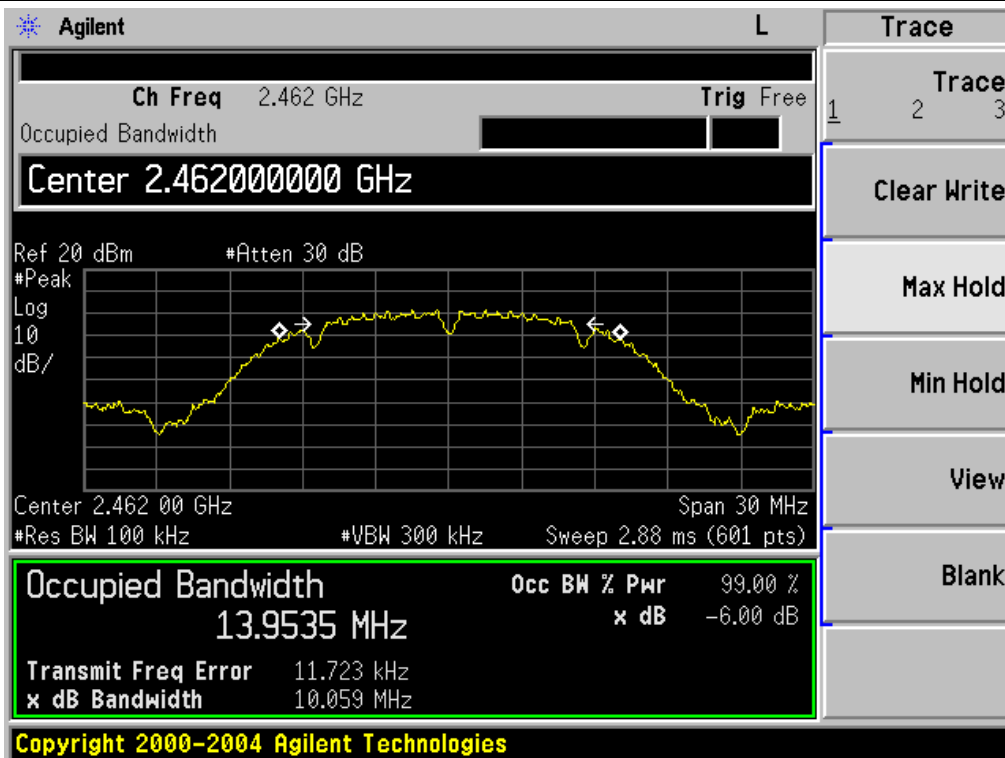
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.129	500	Pass
Middle	2437	10.098	500	Pass
High	2462	10.059	500	Pass



TX CH 06

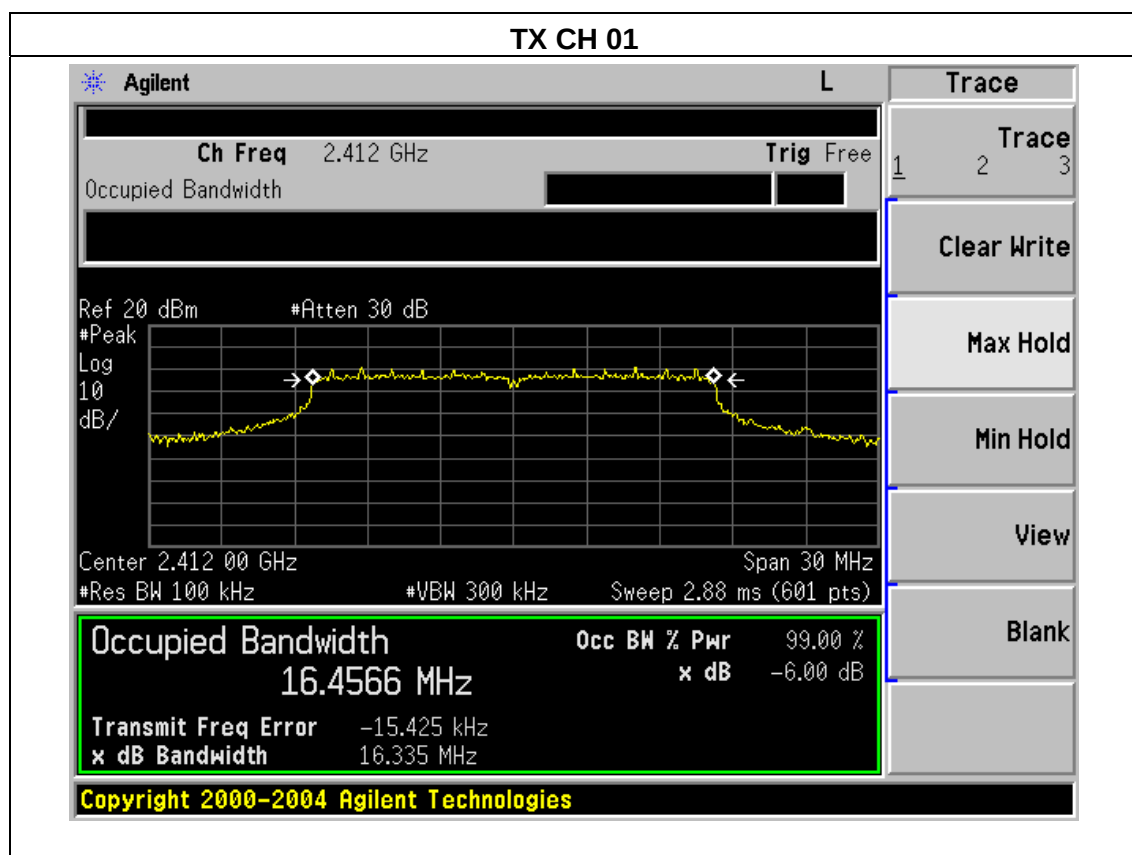


TX CH 11

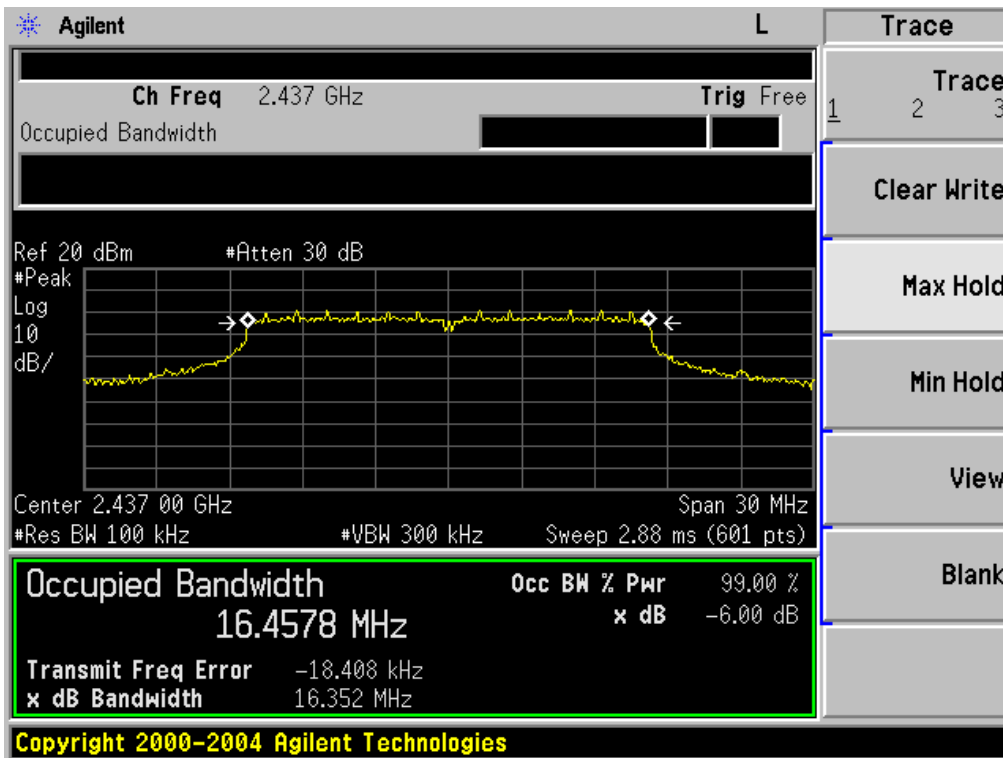


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX g Mode /CH01, CH06, CH11		

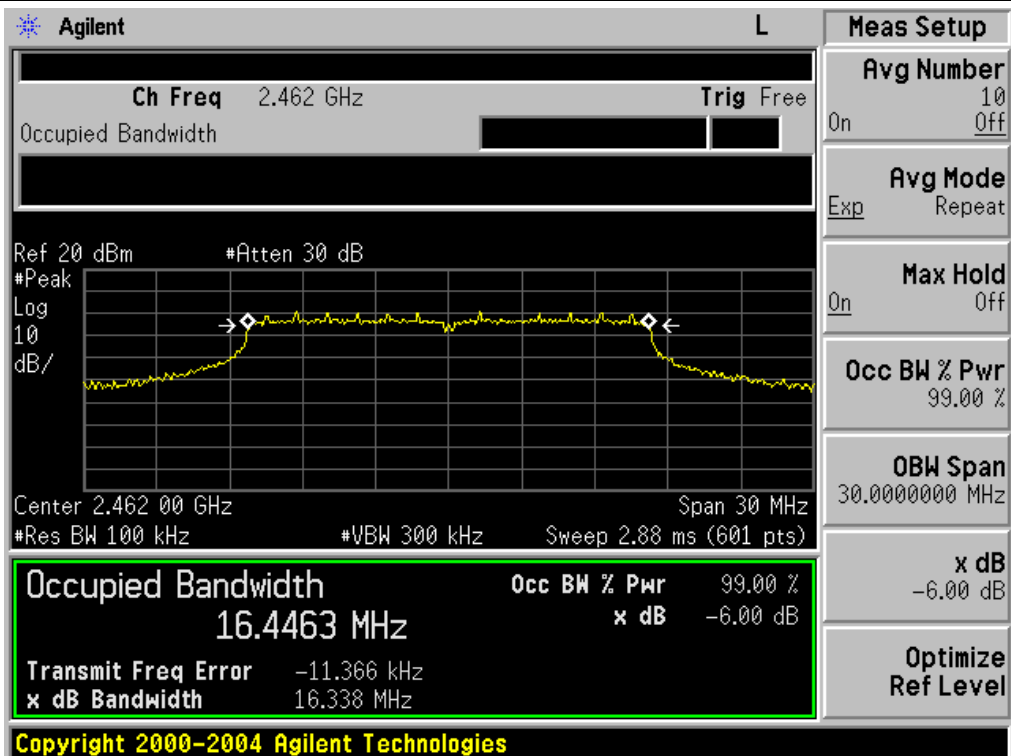
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.335	500	Pass
Middle	2437	16.352	500	Pass
High	2462	16.338	500	Pass



TX CH 06

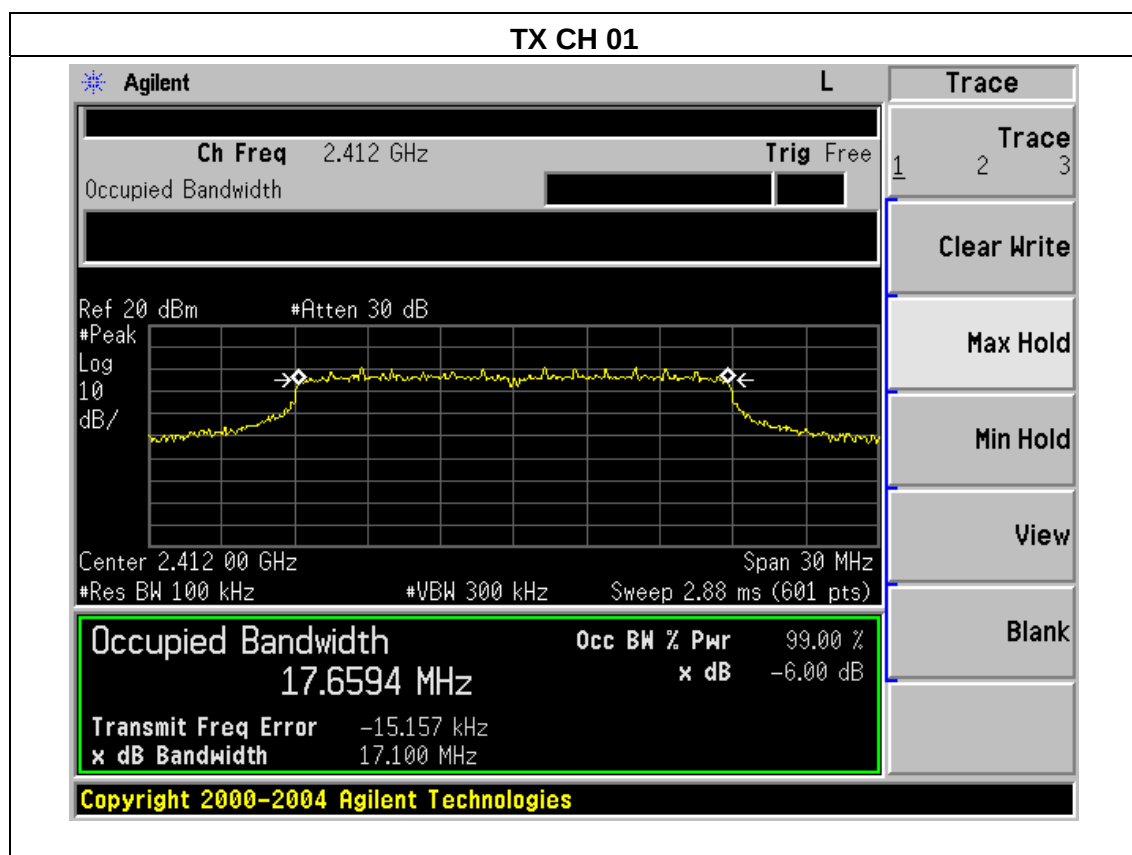


TX CH 11

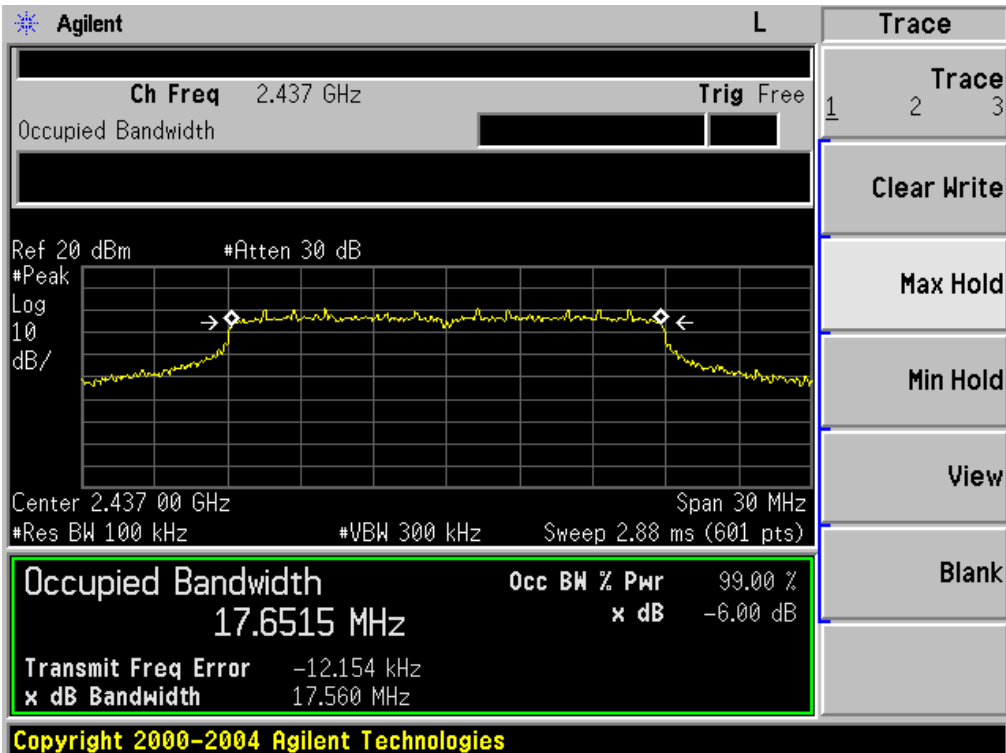


EUT :	Aerial photography equipment	Model Name :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

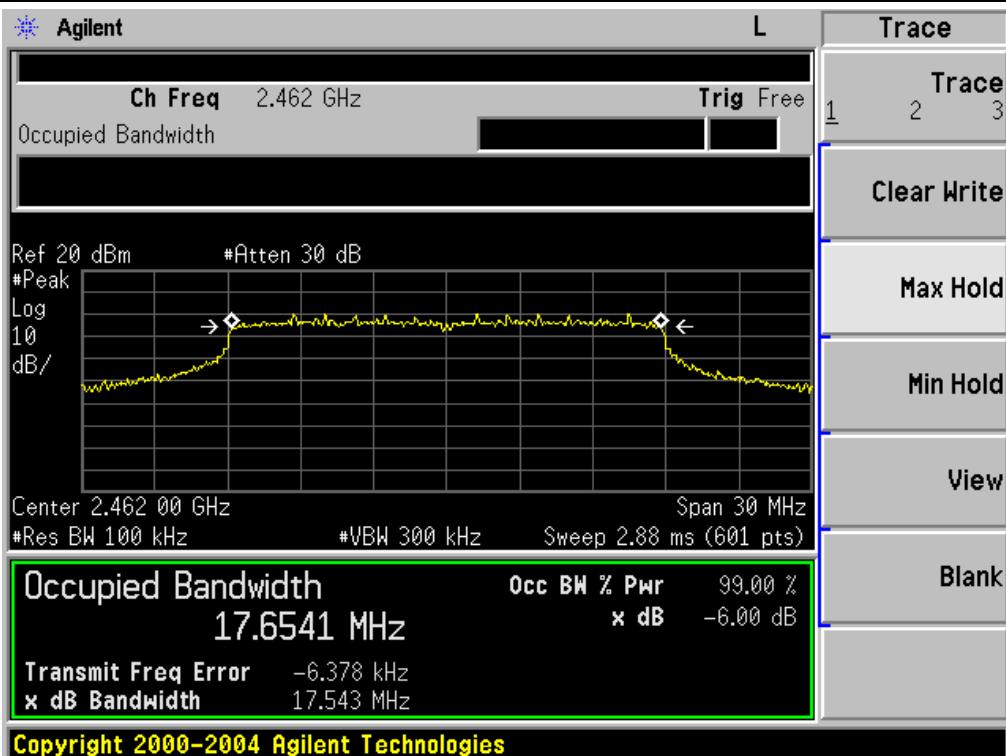
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.100	500	Pass
Middle	2437	17.560	500	Pass
High	2462	17.543	500	Pass



TX CH 06



TX CH 11



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

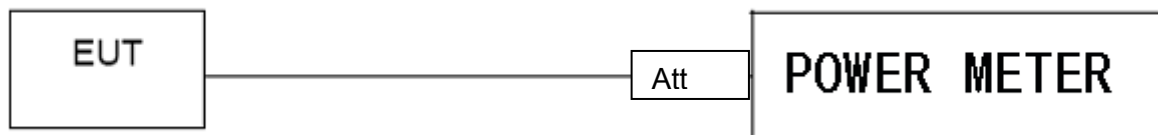
6.1.1 TEST PROCEDURE

- 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 :	AP12
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V
Test Mode :	TX b/g/n(20M/40M) Mode		

TX 802.11b Mode				
Test Channel	Frequency	Maximum Peak Conducted Output Power (PK)	Maximum Peak Conducted Output Power (AV)	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH01	2412	12.66	9.45	30
CH06	2437	12.35	9.38	30
CH11	2462	11.78	9.52	30
TX 802.11g Mode				
CH01	2412	11.62	8.49	30
CH06	2437	11.58	8.45	30
CH11	2462	11.54	8.41	30
TX 802.11n(20) Mode				
CH01	2412	10.58	8.35	30
CH06	2437	10.49	8.26	30
CH11	2462	10.39	8.16	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)).

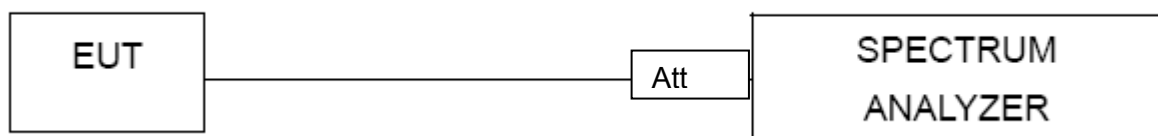
TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 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.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 100 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.

7.1 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 :	AP12
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.1V

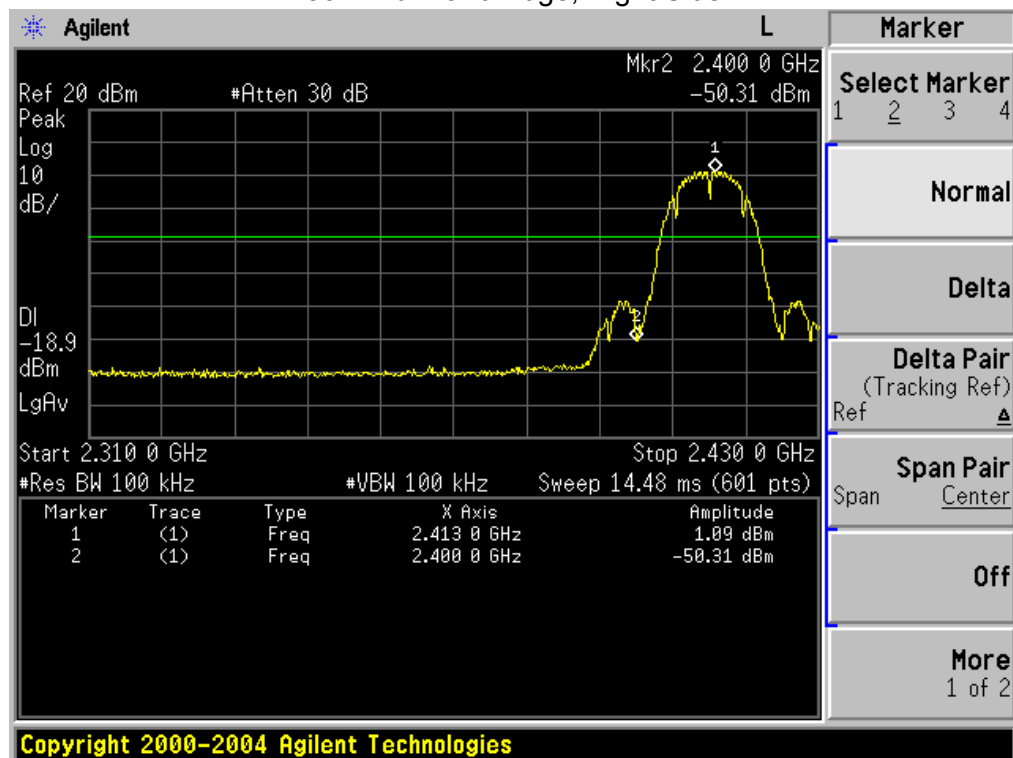
Frequency Band MHz	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b mode			
2400	51.40	20	Pass
2483.5	57.16	20	Pass
802.11g mode			
2400	28.91	20	Pass
2483.5	40.92	20	Pass
802.11n-HT20 mode			
2400	28.12	20	Pass
2483.5	40.76	20	Pass

Radiated band edge:

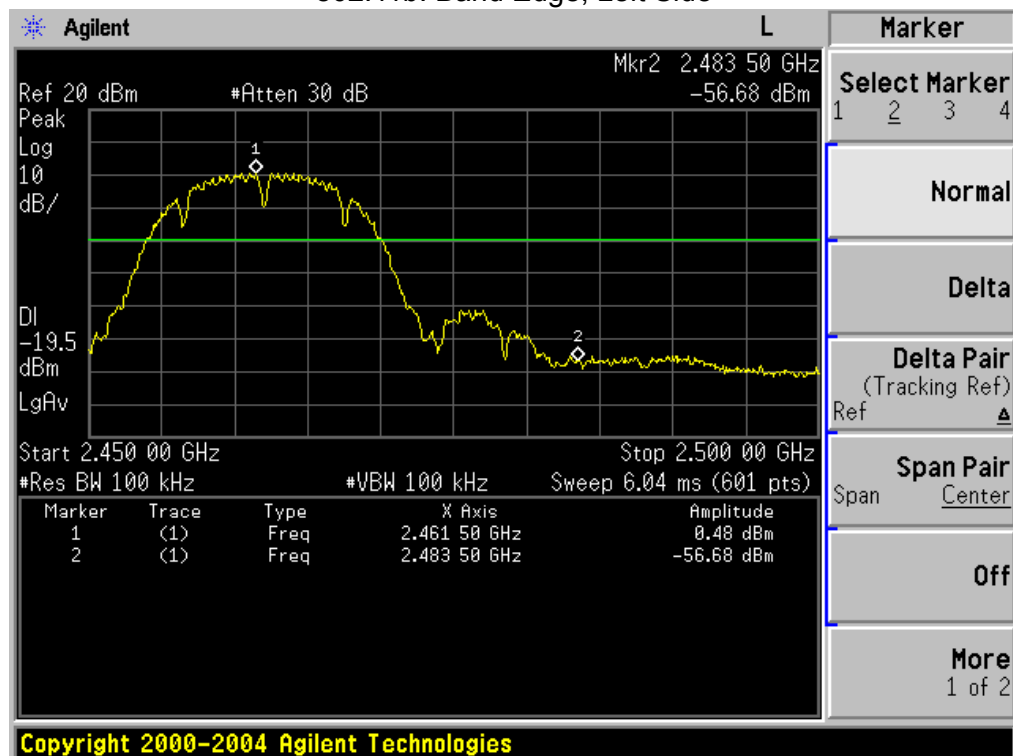
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b							
2390	58.67	-13.06	45.61	74	-28.39	peak	Vertical
2390	58.4	-13.06	45.34	74	-28.66	peak	Horizontal
2483.5	59.59	-12.78	46.81	74	-27.19	peak	Vertical
2483.5	59.61	-12.78	46.83	74	-27.17	peak	Horizontal
802.11g							
2390	58.25	-13.06	45.19	74	-28.81	peak	Vertical
2390	57.48	-13.06	44.42	74	-29.58	peak	Horizontal
2483.5	58.97	-12.78	46.19	74	-27.81	peak	Vertical
2483.5	59.36	-12.78	46.58	74	-27.42	peak	Horizontal
802.11n (20)							
2390	61.18	-13.06	48.12	74	-25.88	peak	Vertical
2390	60.96	-13.06	47.9	74	-26.10	peak	Horizontal
2483.5	61.1	-12.78	48.32	74	-25.68	peak	Vertical
2483.5	61.24	-12.78	48.46	74	-25.54	peak	Horizontal

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

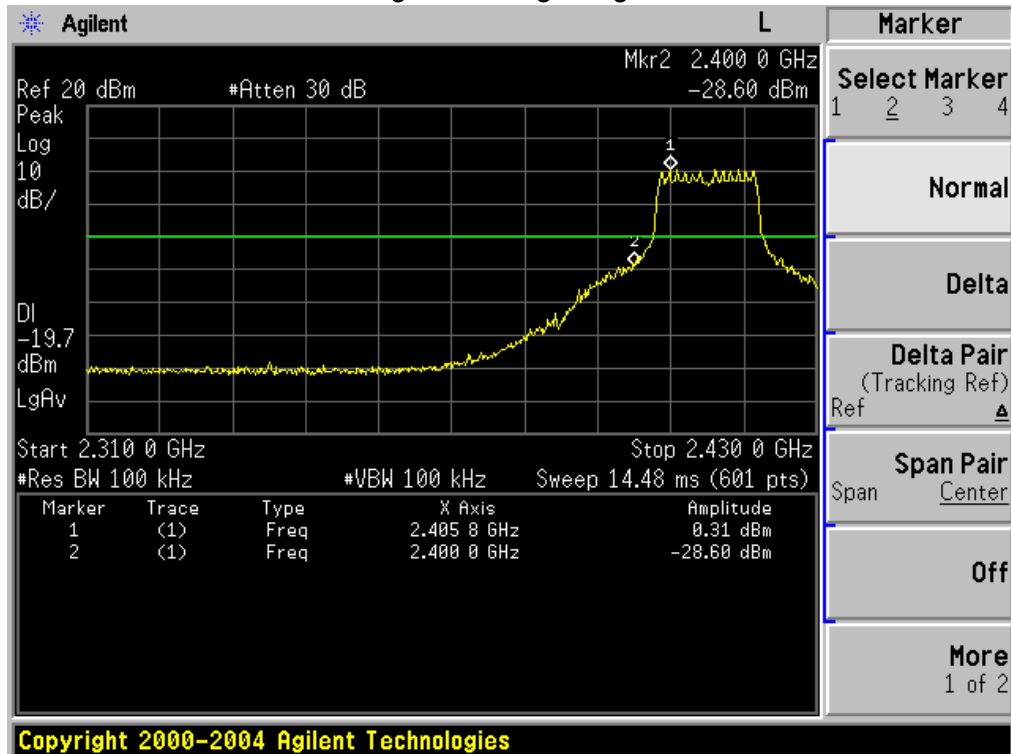
802.11b: Band Edge, Right Side



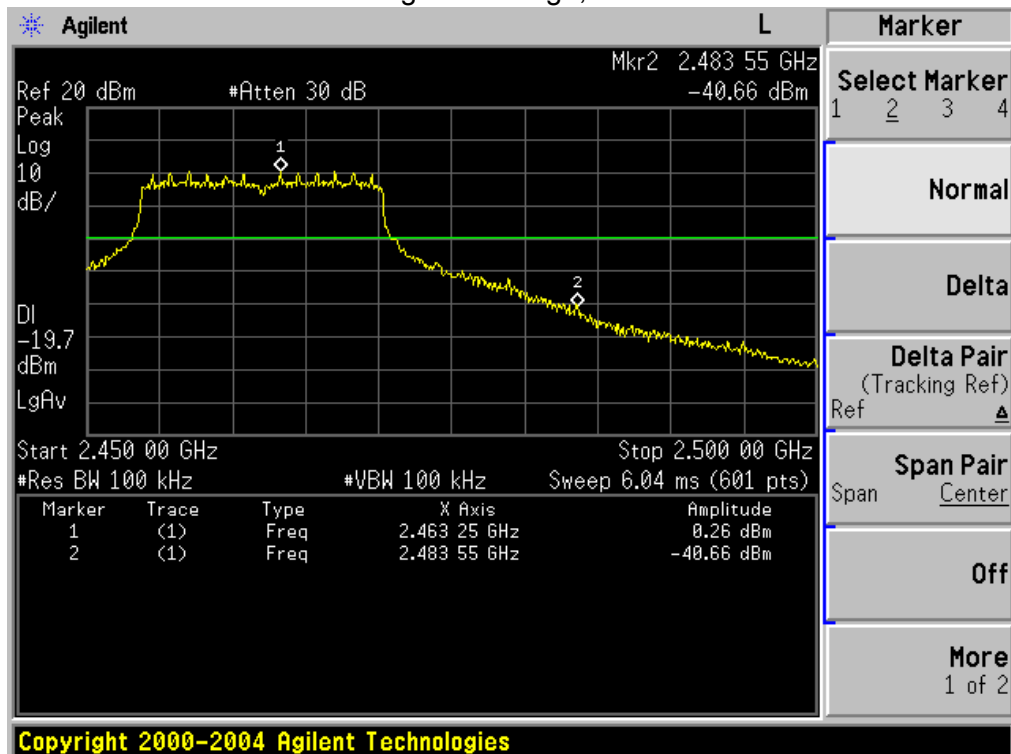
802.11b: Band Edge, Left Side



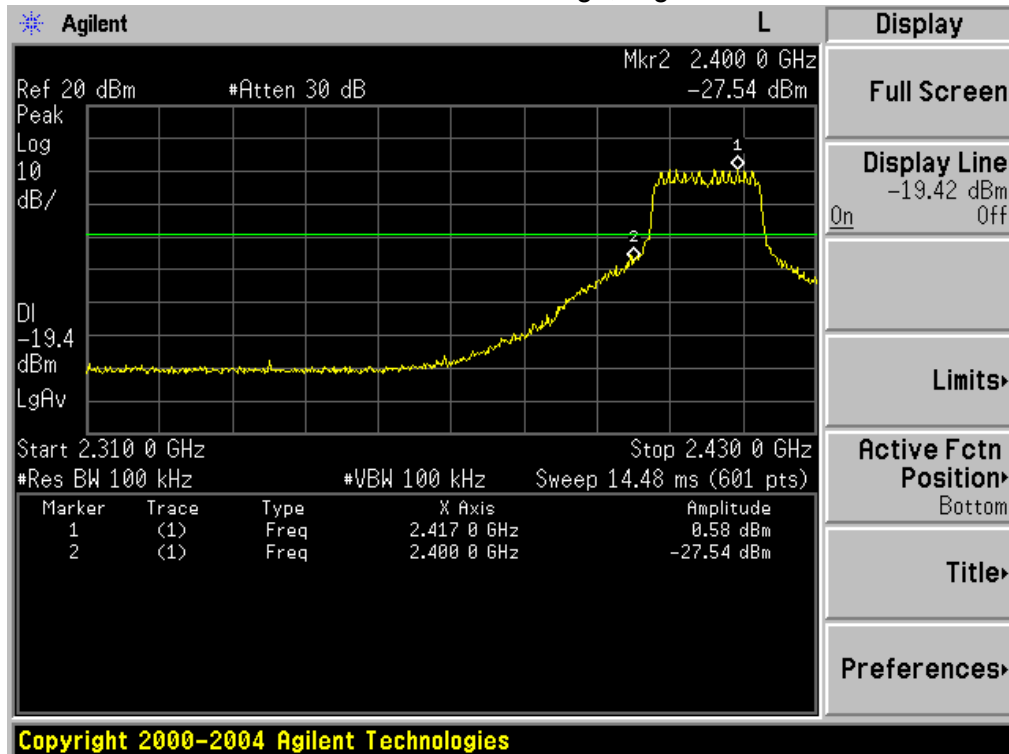
802.11g: Band Edge, Right Side



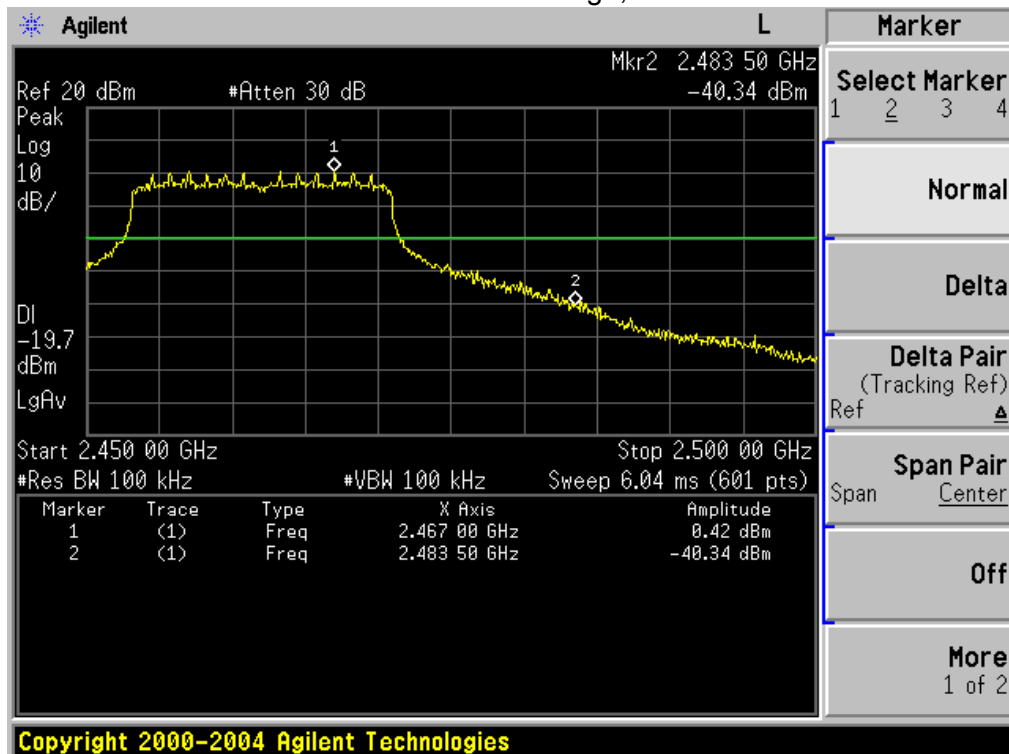
802.11g: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



802.11n-HT20: Band Edge, Left Side



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

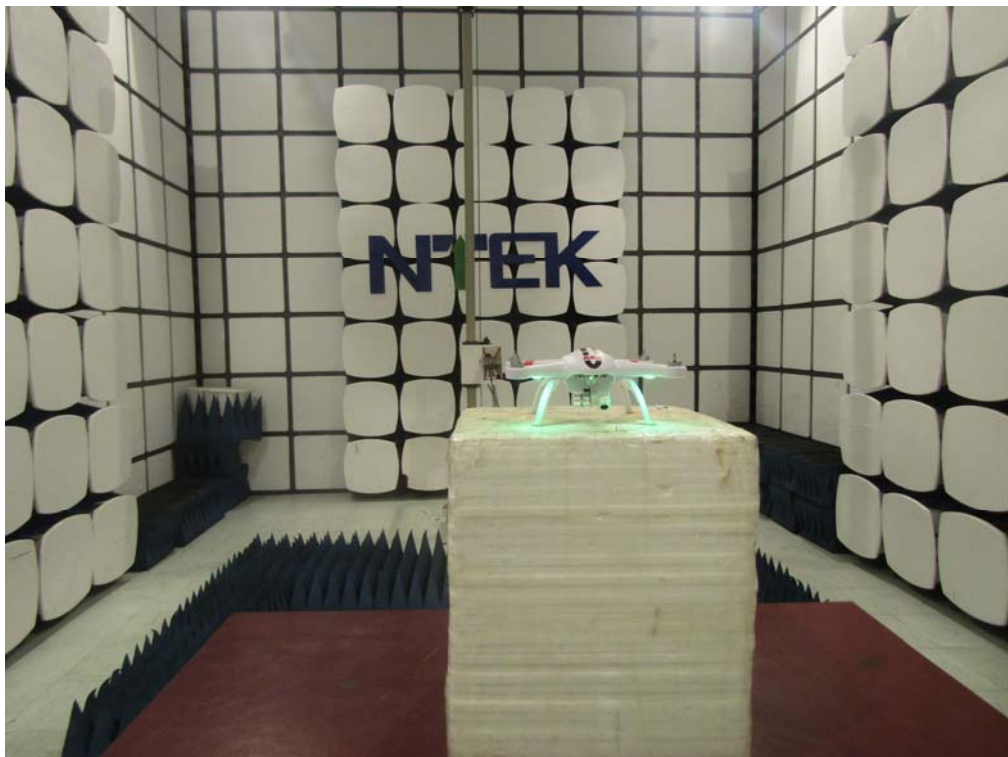
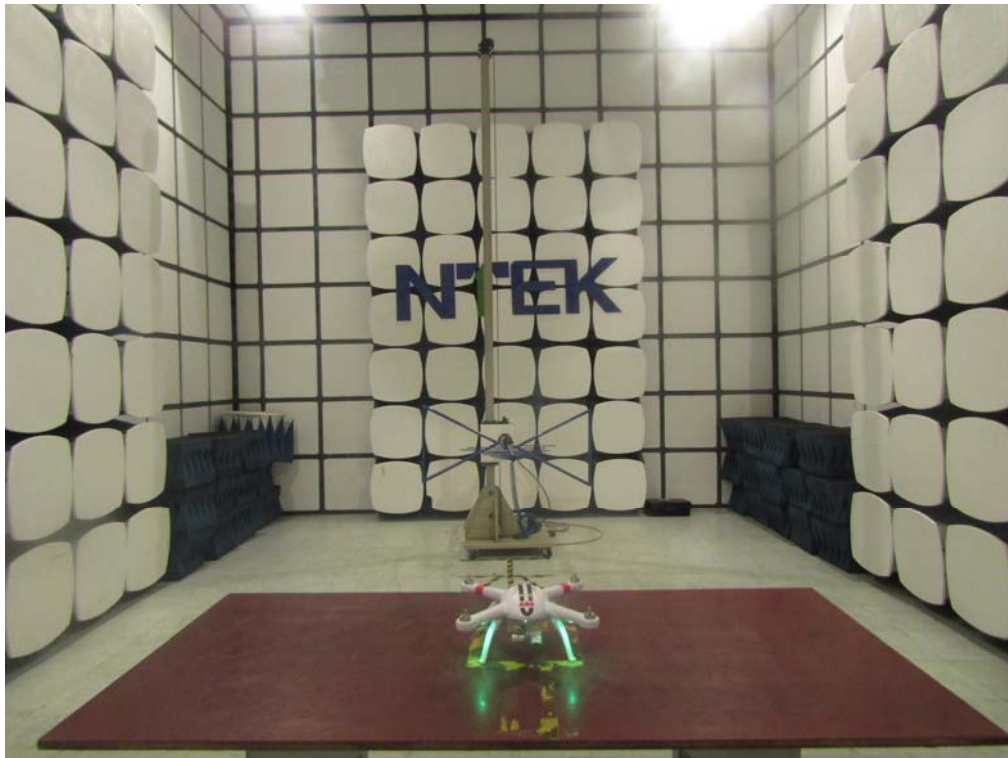
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

9. EUT TEST PHOTO

Radiated Measurement Photos



CONDUCTED EMISSION Photos