



# FCC Part 15C Test Report

## FCC ID: 2AEBOITV38

Product Name:	<b>Android TV Box</b>
Trademark:	<b>N/A</b>
Model Name :	<b>ITV38,U8, Q8, K8, S8, M8, ITV18, ITV16</b>
Prepared For :	<b>Shenzhen iPush Technology Co., Ltd.</b>
Address :	Room 507, Baocheng Building, NO. 39 District, Baoan District, Shenzhen 518100 China
Prepared By :	<b>Shenzhen BCTC Technology Co., Ltd.</b>
Address :	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	<b>Jan. 29 - Feb. 05, 2015</b>
Date of Report :	<b>Feb. 05, 2015</b>
Report No.:	<b>BCTC-150101188</b>



## VERIFICATION OF COMPLIANCE

**Applicant's name** ..... : Shenzhen iPush Technology Co., Ltd.  
**Address** ..... : Room 507, Baocheng Building, NO. 39 District, Baoan District,  
Shenzhen 518100 China

**Manufacture's Name** ..... : Shenzhen PUSI Technology Co., Ltd.  
**Address** ..... : Room 507, Baocheng Building, NO. 39 District, Baoan District,  
Shenzhen 518100 China

### Product description

**Product name** ..... : Android TV Box  
**Trademark:** N/A  
**Model Name:** ITV38,U8, Q8, K8, S8, M8, ITV18, ITV16  
**Test procedure** FCC Part15.247  
**Standards** ANSI C63.4-2003

Testing Engineer :

*Eric Yang*

(Eric Yang)

Technical Manager :

*Sophie Lu*

(Sophia Lee)

Authorized Signatory :

*Casey Wang*

(Casey Wang)



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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

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101,Yousong Road,Longhua New District, Shenzhen,China

FCC Registration No.:187086

## 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	Android TV Box	
Trademark	N/A	
Model Name	ITV38	
Serial Model	U8, Q8, K8, S8, M8, ITV18, ITV16.	
Model Difference	All the same, Only model name is different	
Product Description	The EUT is a Android TV Box	
	Operation Frequency:	2412~2462 MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n:65/52/6.5 Mbps
	Number Of Channel	11 CH, Please see Note 2.
	Antenna Designation:	Please see Note 3.
	Output Power(Conducted):	802.11b: 16.66 dBm (Max.) 802.11g: 14.23 dBm (Max.) 802.11n: 14.32 dBm (Max.)
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.		
Channel List	Please refer to the Note 2.	
Adapter	Model:LD-021 AC Power Input: 100-240V~, 50/60Hz Output: 5.0V---, 2000mA	
Battery	N/A	
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							
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	Integrated antenna	N/A	2.0	Wifi Antenna





## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	802.11n CH1/ CH6/ CH11
Mode 4	WIFI Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	WIFI Link Mode

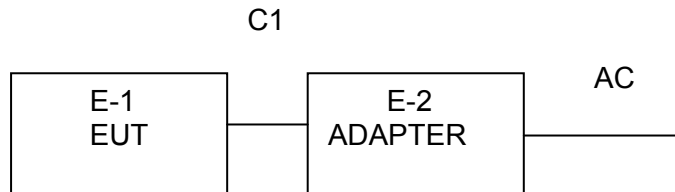
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11

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



### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





## 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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Android TV Box	N/A	ITV38	N/A	EUT
E-2	Adapter	N/A	LD-021	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.1M	

**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	MY45109572	2014.08.25	2015.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2014.08.25	2015.08.24	1 year
3	Bilog Antenna	SCHWARZBECK	VULB9160	VULB9160-3369	2014.08.25	2015.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	SCHWARZBECK	9120D	9120D-1275	2014.08.25	2015.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	SCHWARZBECK	BBV9718	9718-270	2014.08.25	2015.08.24	1 year
9	Amplifier	SCHWARZBECK	BBV9743	9743-119	2014.08.25	2015.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.07.06	2015.07.05	1 year
13	RF cables	R&S	N/A	N/A	2014.07.06	2015.07.05	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	101421	2014.08.25	2015.08.24	1 year
2	LISN	SCHWARZBECK	NSLK8127	812779	2014.08.25	2015.08.24	1 year
3	LISN	EMCO	Feb-16	42990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year



### 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

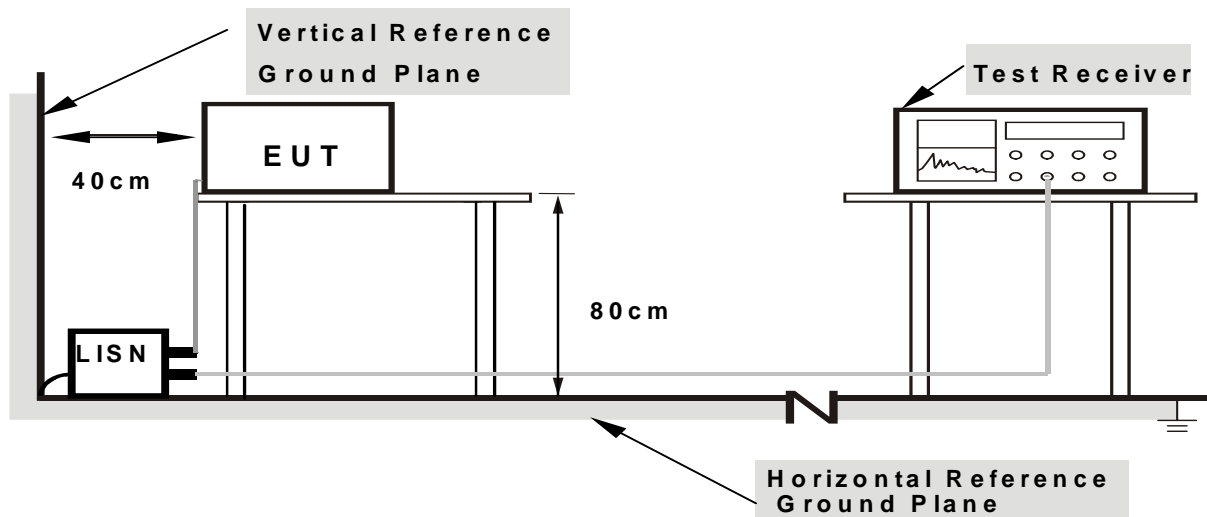
### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 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.



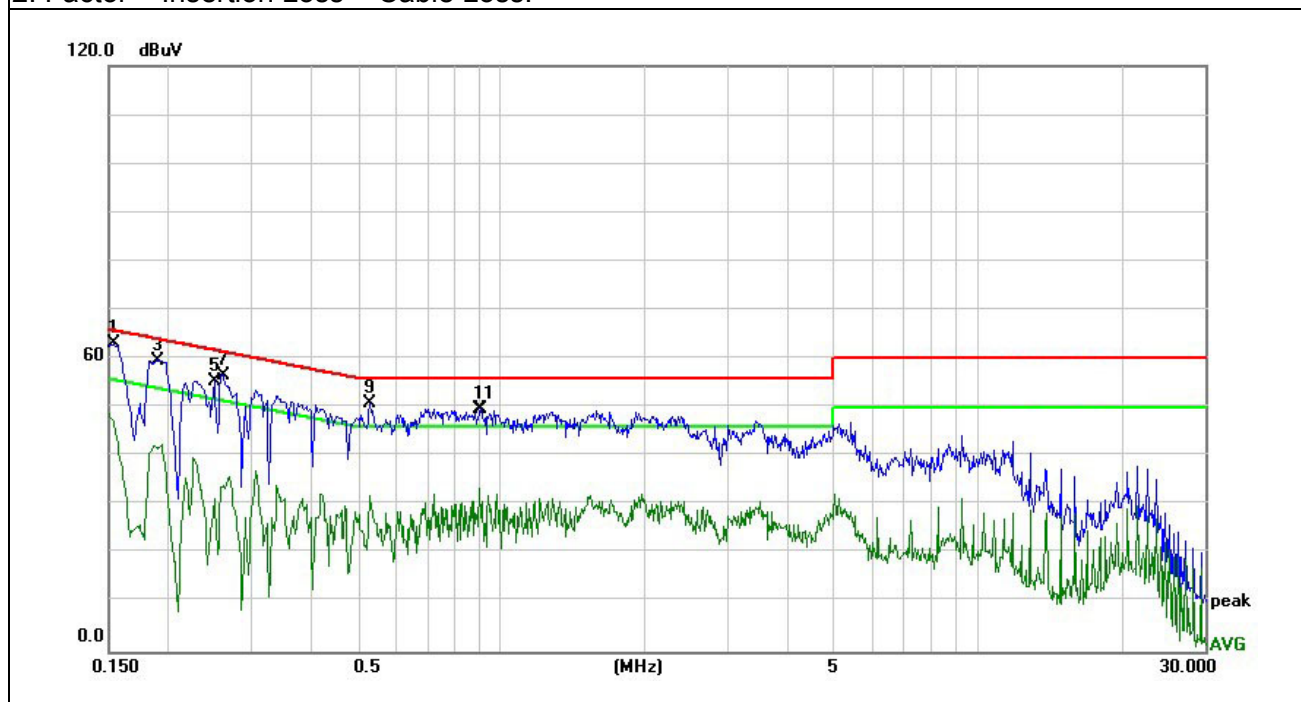
### 3.1.6 TEST RESULTS

EUT :	Android TV Box	Model Name. :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1540	63.19	0.00	63.19	65.78	-2.59	QP
0.1540	48.61	0.00	48.61	55.78	-7.17	AVG
0.1900	59.67	0.00	59.67	64.04	-4.37	QP
0.1900	42.48	0.00	42.48	54.04	-11.56	AVG
0.2500	55.44	0.00	55.44	61.76	-6.32	QP
0.2500	39.49	0.00	39.49	51.76	-12.27	AVG
0.2603	56.65	0.00	56.65	61.42	-4.77	QP
0.2603	35.88	0.00	35.88	51.42	-15.54	AVG
0.5300	50.71	0.00	50.71	56.00	-5.29	QP
0.5300	31.97	0.00	31.97	46.00	-14.03	AVG
0.9020	49.59	0.00	49.59	56.00	-6.41	QP
0.9020	33.39	0.00	33.39	46.00	-12.61	AVG

Remark:

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



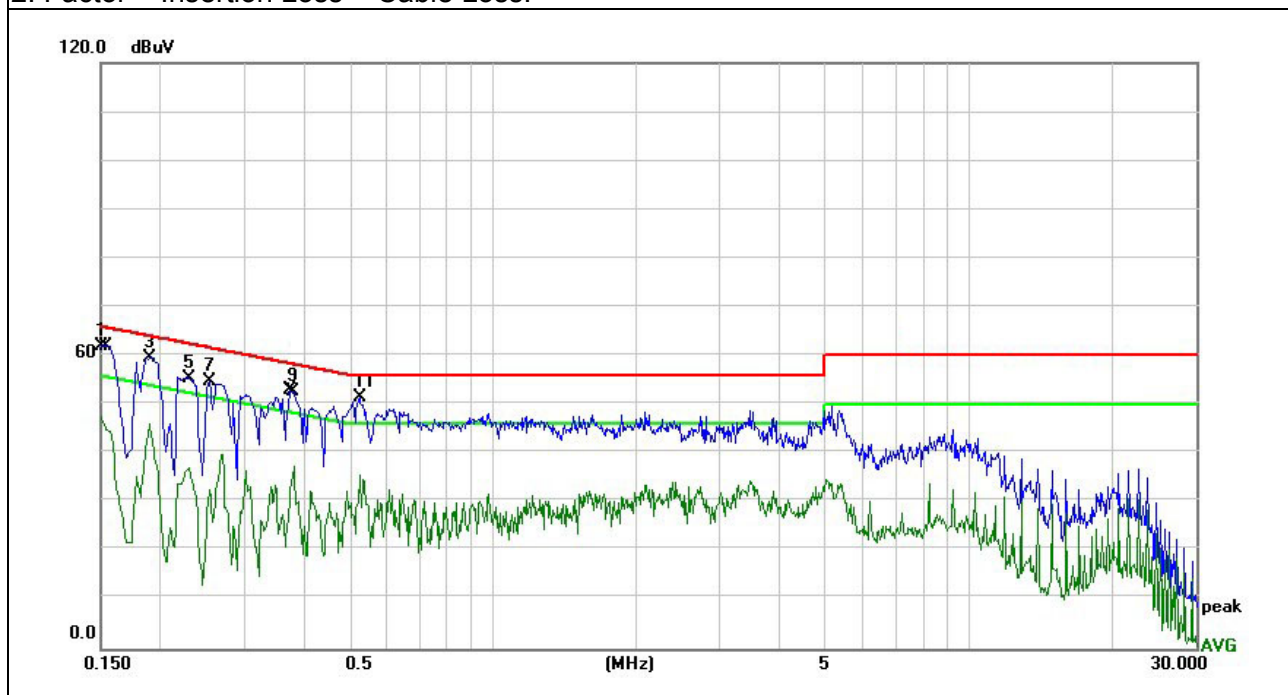


EUT :	Android TV Box	Model Name. :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1500	62.08	0.00	62.08	66.00	-3.92	QP
0.1500	47.69	0.00	47.69	56.00	-8.31	AVG
0.1900	59.52	0.00	59.52	64.04	-4.52	QP
0.1900	46.10	0.00	46.10	54.04	-7.94	AVG
0.2300	55.37	0.00	55.37	62.45	-7.08	QP
0.2300	37.07	0.00	37.07	52.45	-15.38	AVG
0.2540	54.82	0.00	54.82	61.63	-6.81	QP
0.2540	39.89	0.00	39.89	51.63	-11.74	AVG
0.3820	52.78	0.00	52.78	58.24	-5.46	QP
0.3820	37.49	0.00	37.49	48.24	-10.75	AVG
0.5260	51.42	0.00	51.42	56.00	-4.58	QP
0.5260	35.52	0.00	35.52	46.00	-10.48	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)

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 meters above 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; 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:

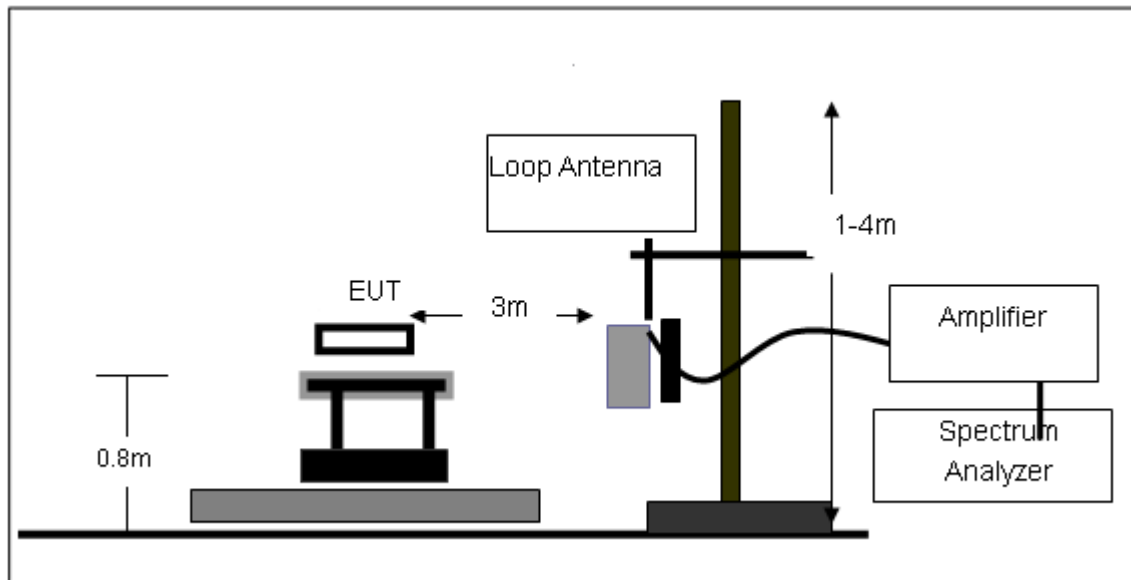
Both horizontal and vertical antenna polarities were tested  
and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.2.3 DEVIATION FROM TEST STANDARD

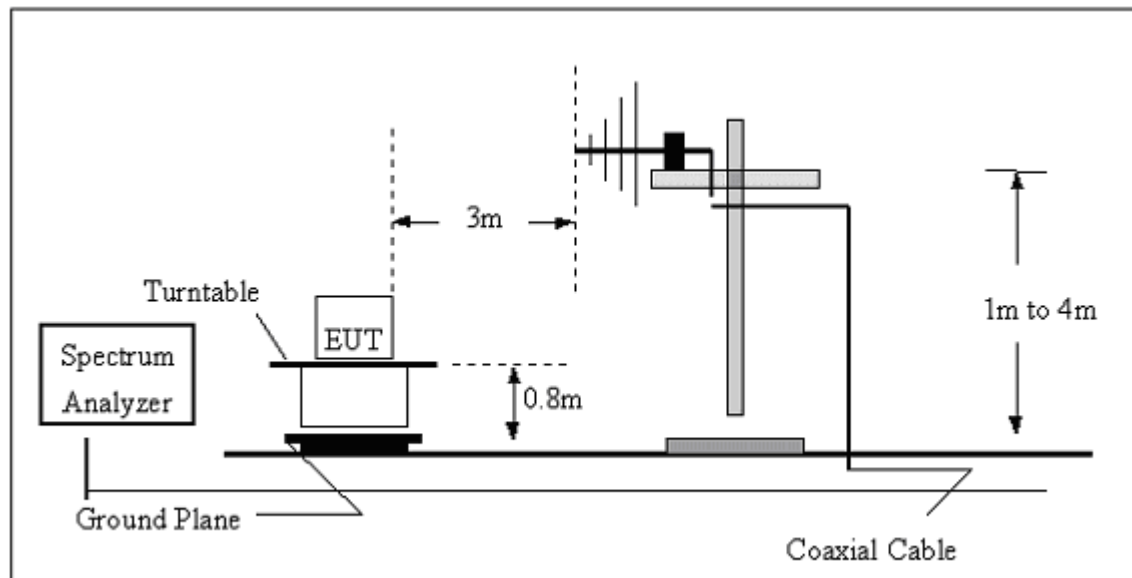
No deviation

### 3.2.4 TEST SETUP

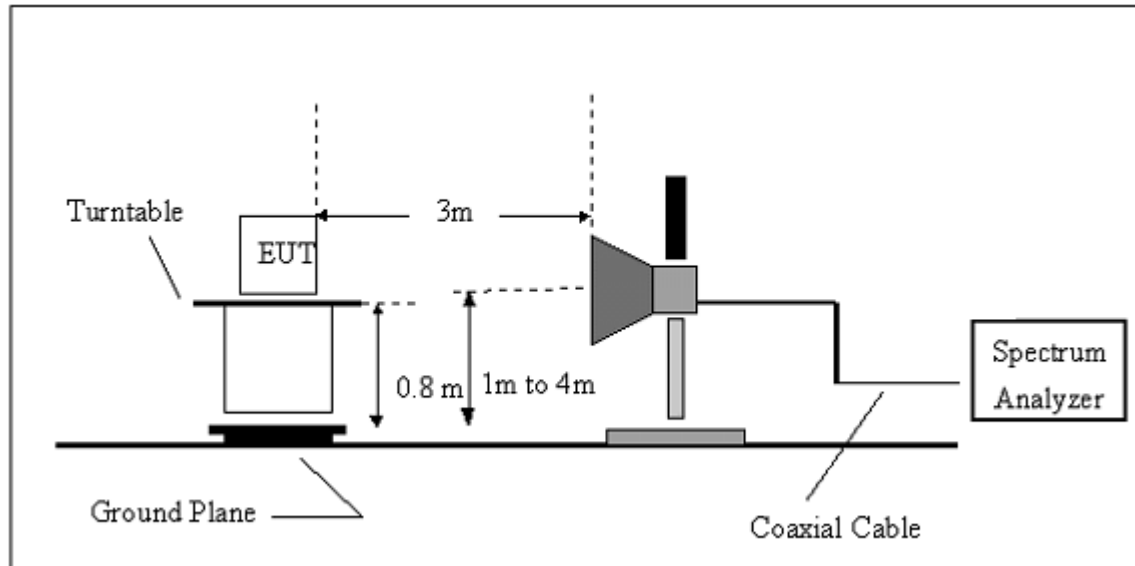
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (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:	Android TV Box	Model Name. :	ITV38
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

**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.

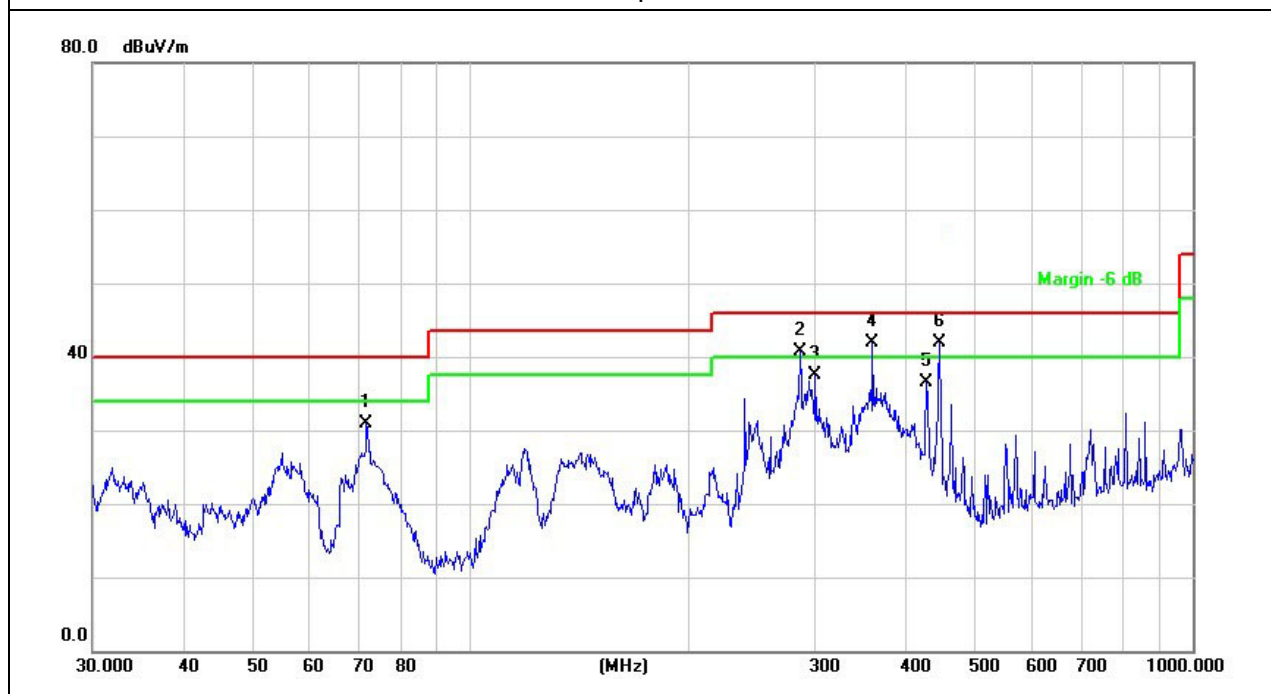
**3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)**

EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
71.8320	46.13	-15.19	30.94	40.00	-9.06	
285.9778	53.60	-12.94	40.66	47.00	-6.34	QP
300.3673	50.00	-12.57	37.43	47.00	-9.57	QP
360.4477	53.18	-11.20	41.98	47.00	-5.02	QP
428.0193	45.99	-9.53	36.46	47.00	-10.54	QP
446.4141	50.92	-9.08	41.84	47.00	-5.16	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



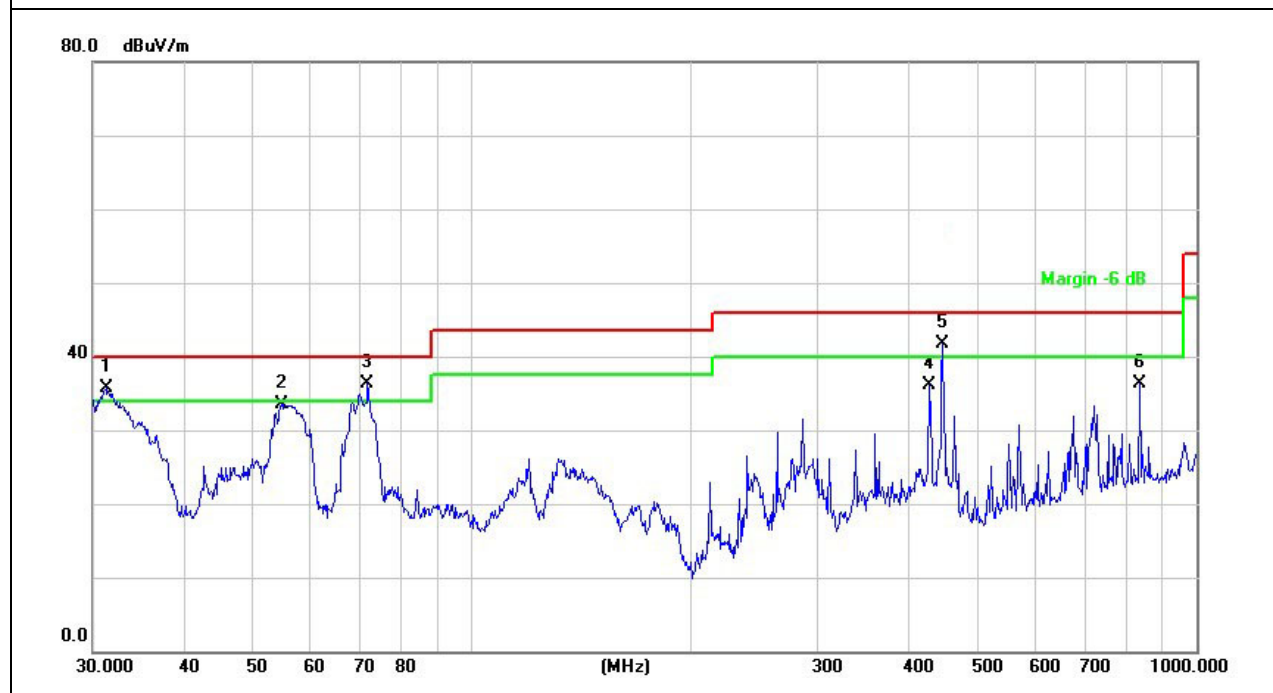


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
31.2893	43.94	-8.20	35.74	40.00	-4.26	QP
54.6429	44.61	-11.07	33.54	40.00	-6.46	QP
71.8320	51.43	-15.19	36.24	40.00	-3.76	QP
428.0193	45.61	-9.53	36.08	47.00	-10.92	QP
446.4141	50.72	-9.08	41.64	47.00	-5.36	QP
836.2443	38.46	-2.19	36.27	47.00	-10.73	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





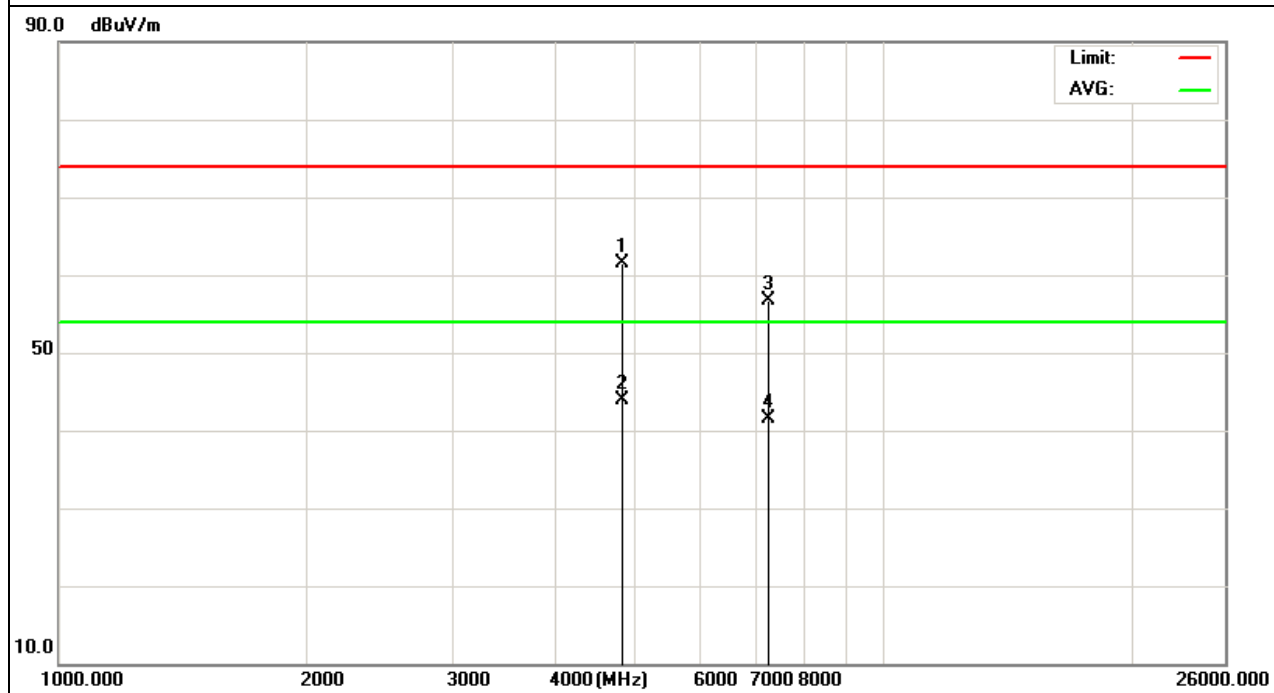
### 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.155	50.03	10.44	60.47	74	-13.53	peak
4824.155	33.35	10.44	43.79	54	-10.21	AVG
7236.131	44.16	12.39	56.55	74	-17.45	peak
7236.131	29.36	12.39	41.75	54	-12.25	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





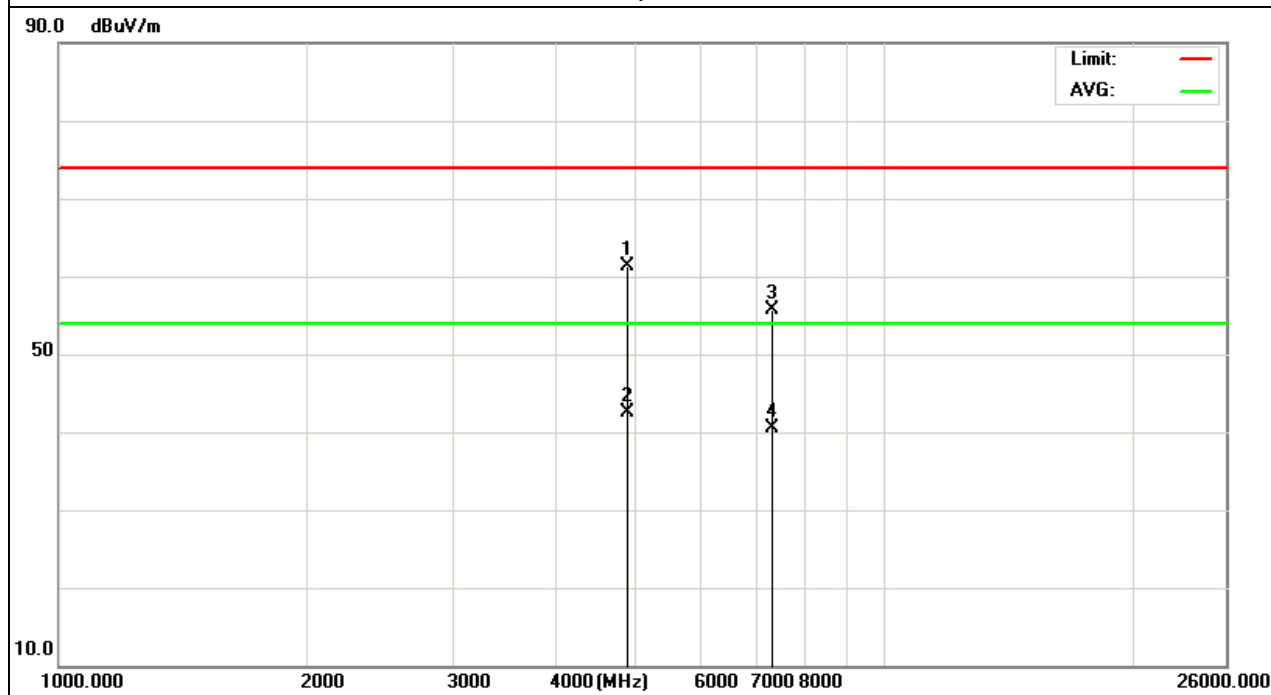


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.143	50.92	10.4	61.32	74	-12.68	peak
4874.143	32.19	10.4	42.59	54	-11.41	AVG
7311.172	42.88	12.75	55.63	74	-18.37	peak
7311.172	27.77	12.75	40.52	54	-13.48	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



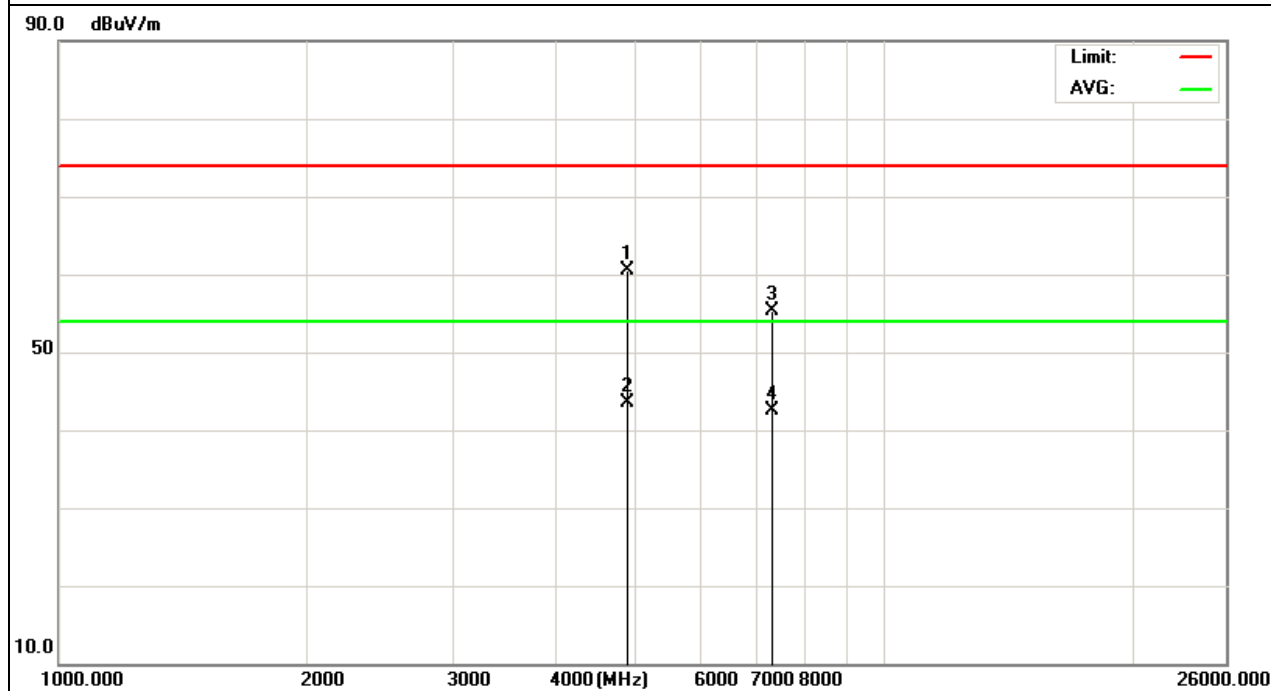


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.117	50.15	10.4	60.55	74	-13.45	peak
4874.117	33.07	10.4	43.47	54	-10.53	AVG
7311.23	42.58	12.75	55.33	74	-18.67	peak
7311.23	29.79	12.75	42.54	54	-11.46	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



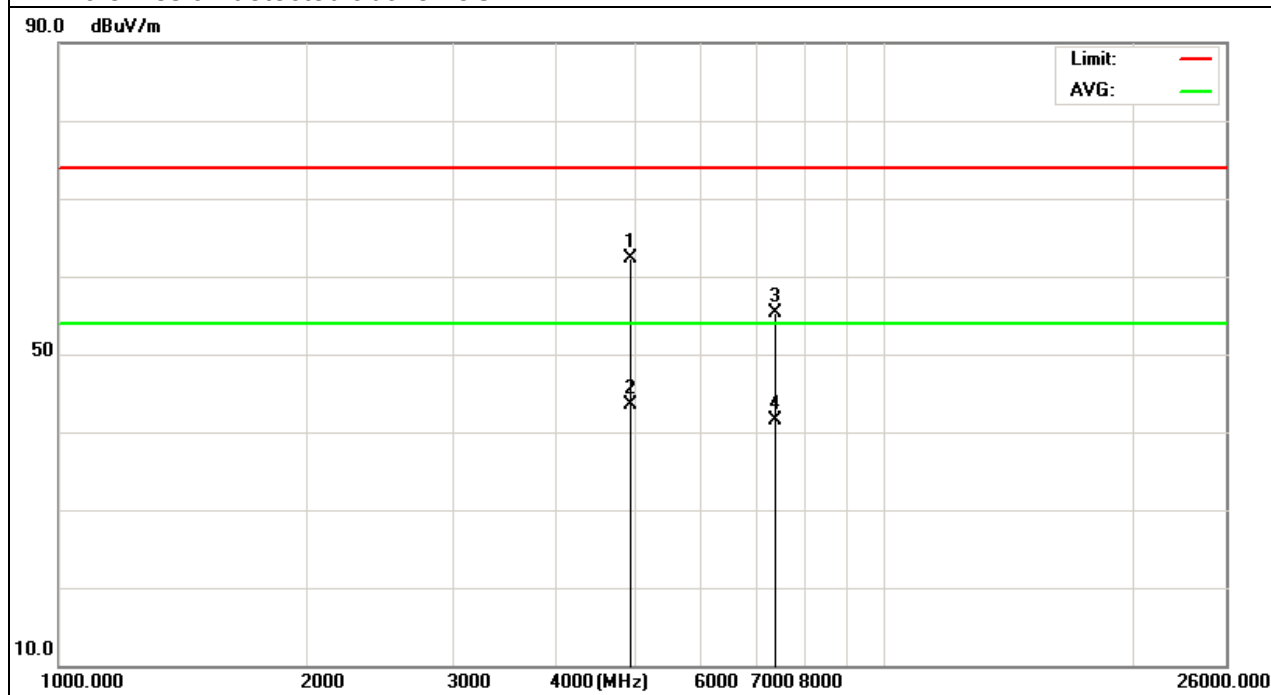


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.145	51.25	10.39	61.64	74	-12.36	peak
4934.145	33.18	10.44	43.62	54	-10.38	AVG
7386.131	42.37	12.68	55.05	74	-18.95	peak
7386.131	28.49	12.68	41.17	54	-12.83	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz



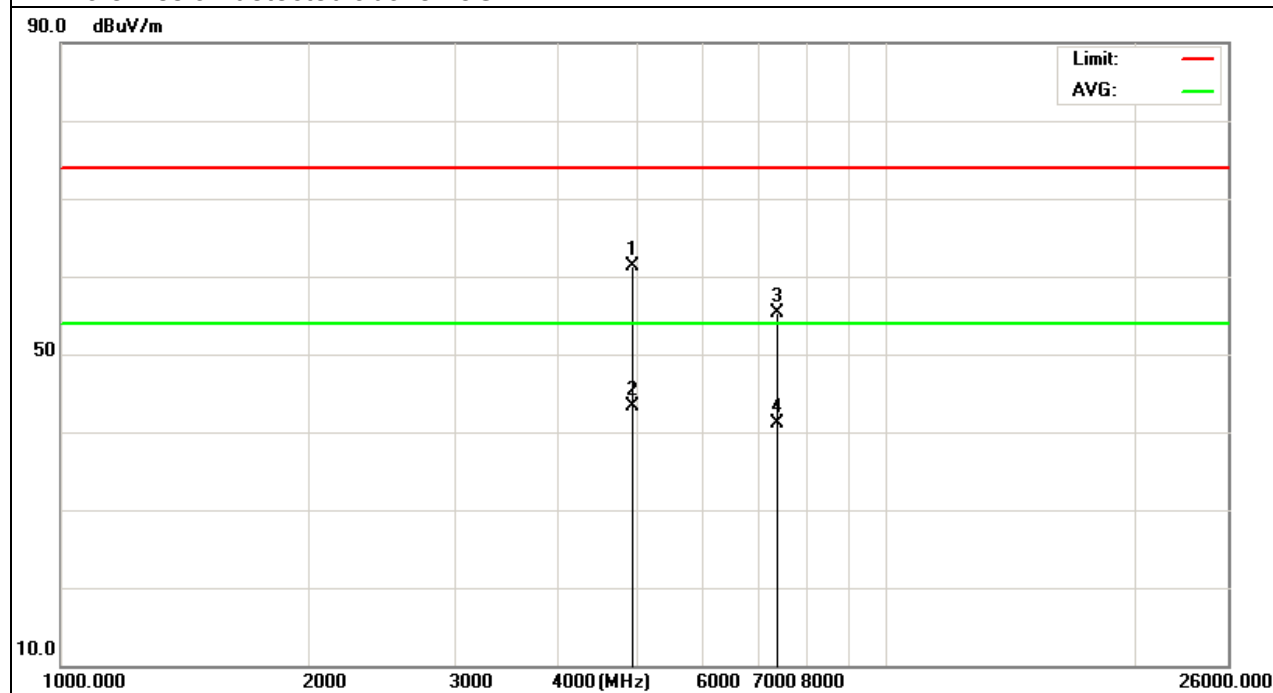


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.164	50.94	10.39	61.33	74	-12.67	peak
4924.164	32.83	10.39	43.22	54	-10.78	AVG
7386.141	42.6	12.68	55.28	74	-18.72	peak
7386.144	28.52	12.68	41.2	54	-12.8	AVG

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz



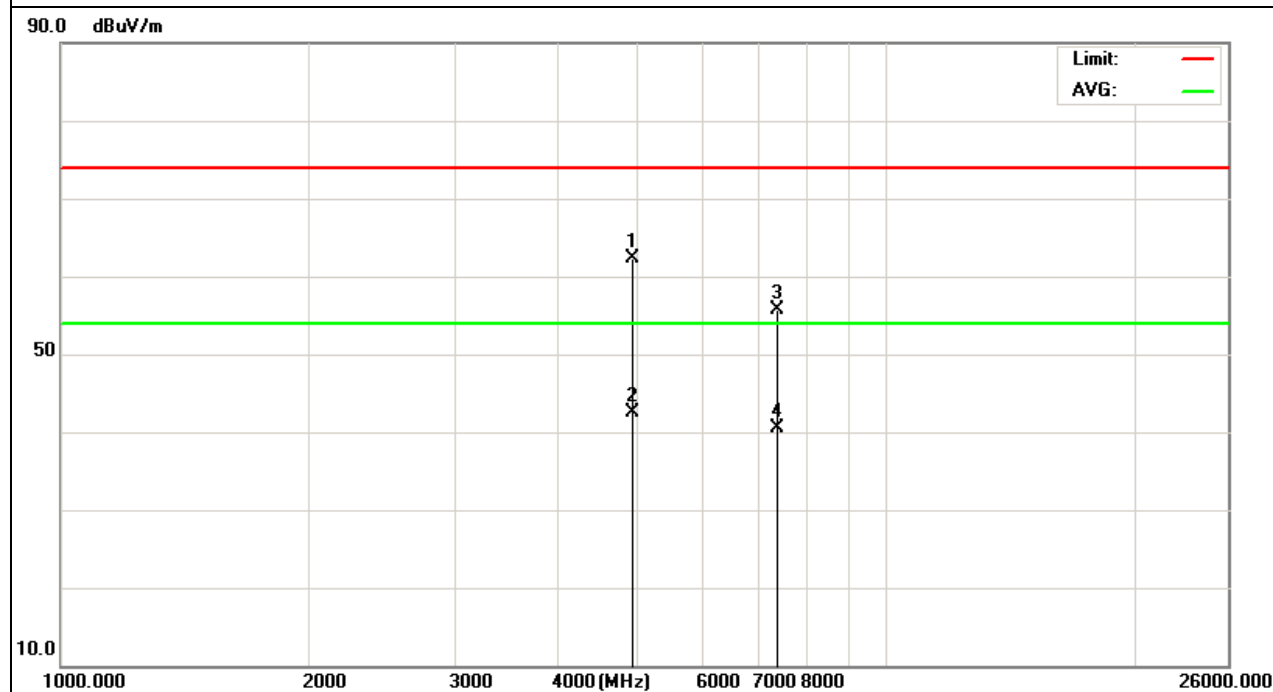


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.18	50.06	10.39	60.45	74	-13.55	peak
4924.18	32.17	10.39	42.56	54	-11.44	AVG
7386.150	43.09	12.68	55.77	74	-18.23	peak
7386.150	27.95	12.68	40.63	54	-13.37	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



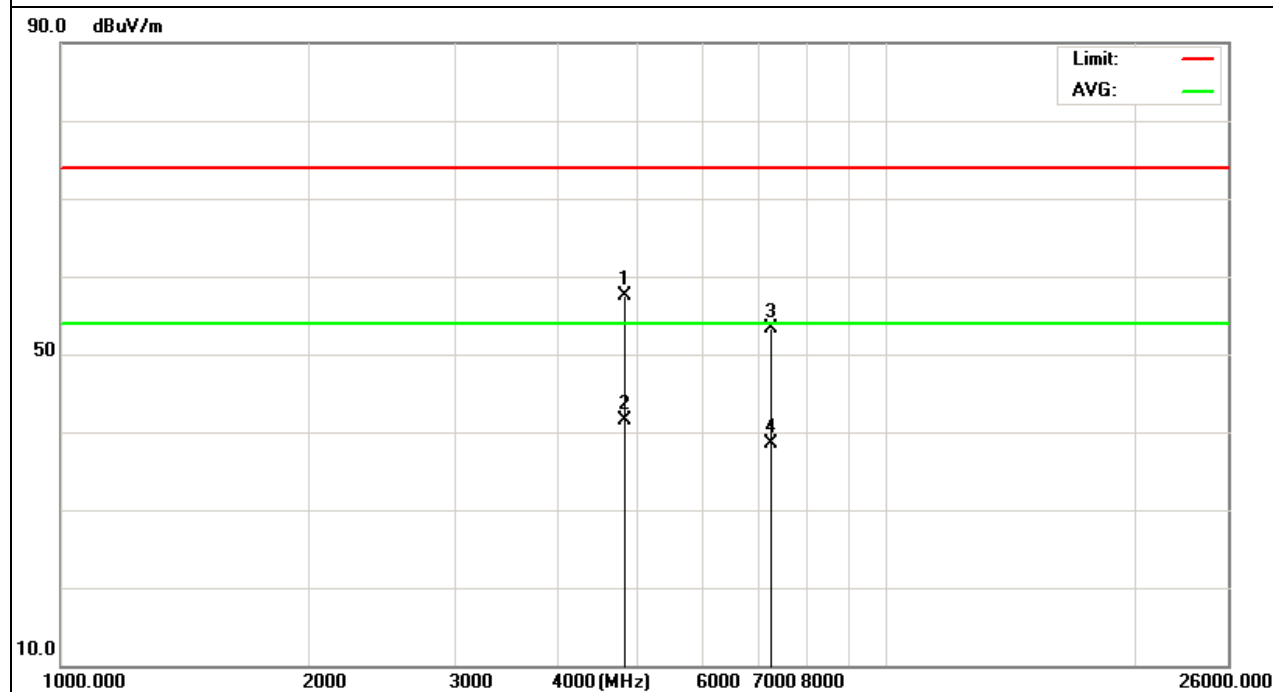


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.136	47.06	10.44	57.5	74	-16.5	peak
4824.136	30.95	10.44	41.39	54	-12.61	AVG
7236.118	40.86	12.39	53.25	74	-20.75	peak
7236.118	25.97	12.39	38.36	54	-15.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



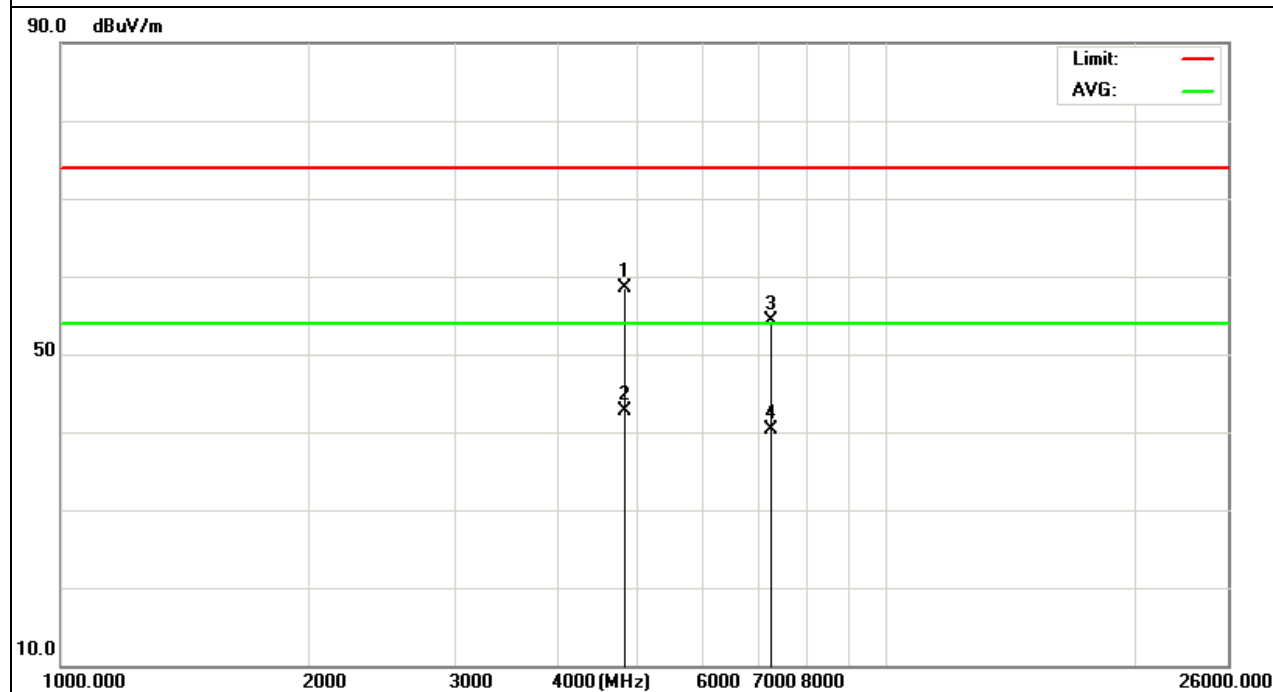


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.157	47.13	10.44	57.57	74	-16.43	peak
4824.157	31.18	10.44	41.62	54	-12.38	AVG
7236.135	40.99	12.39	53.38	74	-20.62	peak
7236.135	26.97	12.39	39.36	54	-14.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



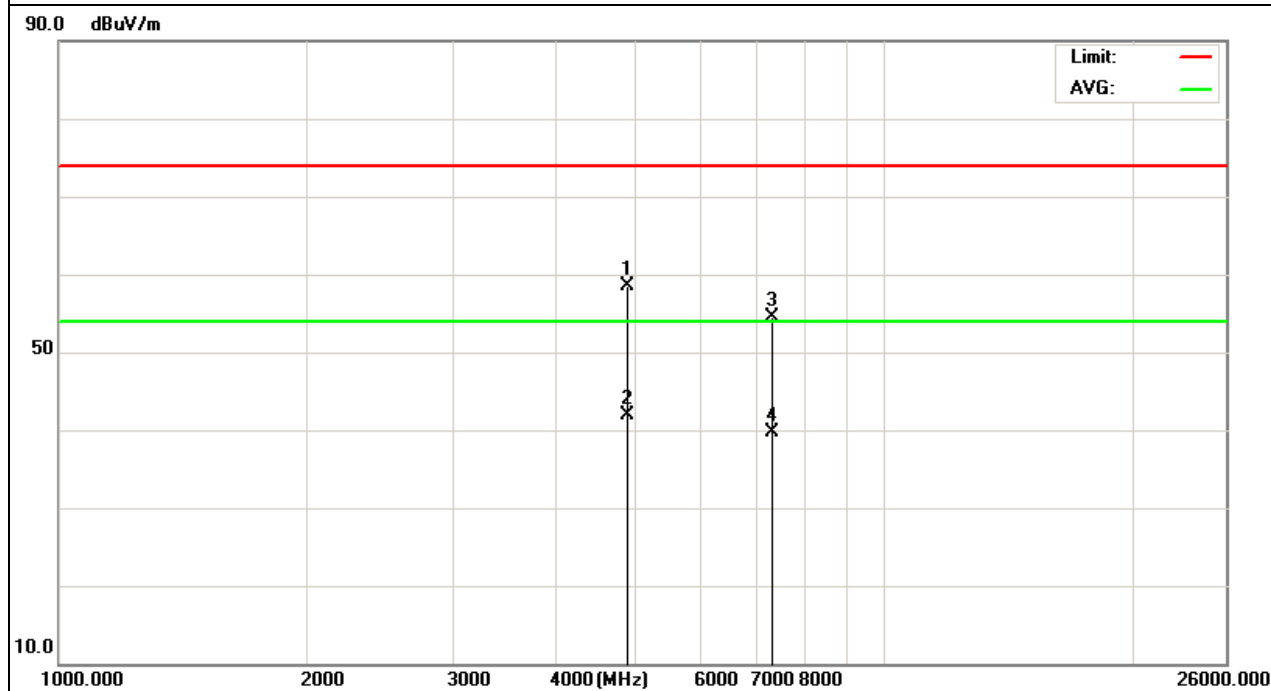


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.134	47.04	10.4	57.44	74	-16.56	peak
4874.134	30.47	10.4	40.87	54	-13.13	AVG
7311.179	40.73	12.75	53.48	74	-20.52	peak
7311.179	26.01	12.75	38.76	54	-15.24	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





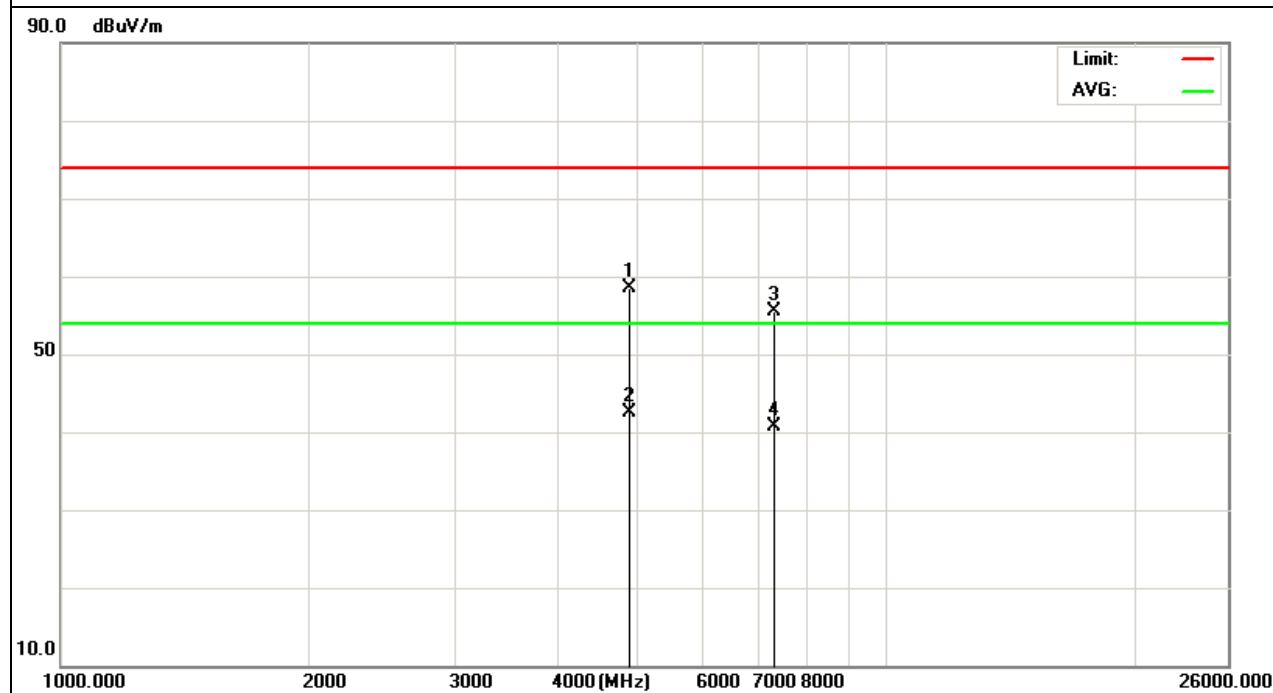


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.123	48.13	10.4	58.53	74	-15.47	peak
4874.123	32.04	10.4	42.44	54	-11.56	AVG
7311.154	42.62	12.75	55.37	74	-18.63	peak
7311.154	27.9	12.75	40.65	54	-13.35	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



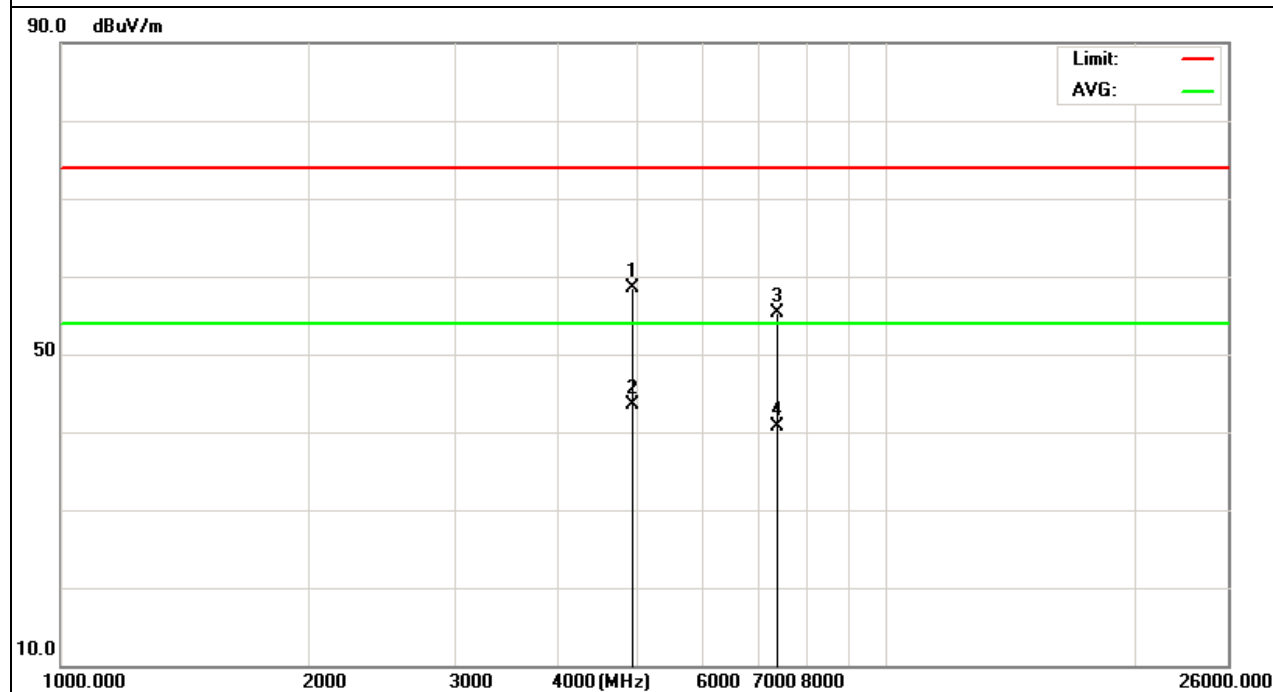


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.127	48.27	10.39	58.66	74	-15.34	peak
4924.127	33.12	10.39	43.51	54	-10.49	AVG
7386.134	42.65	12.68	55.33	74	-18.67	peak
7386.134	28.12	12.68	40.8	54	-13.2	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



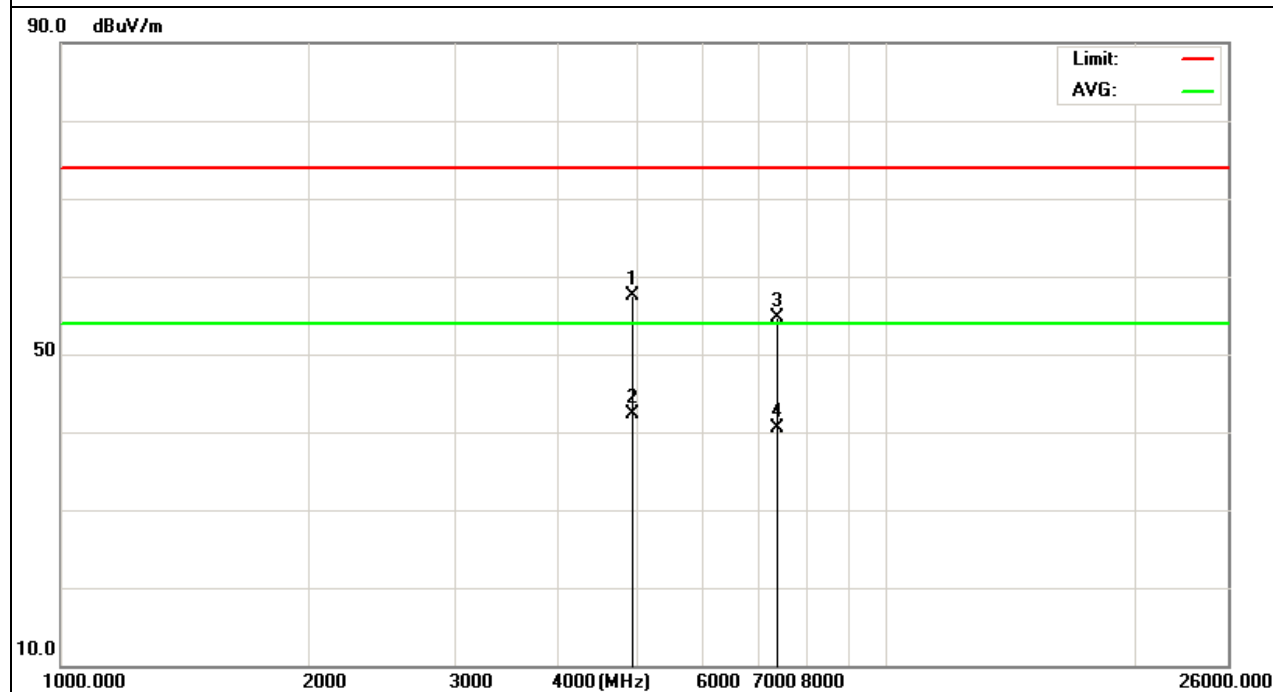


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.147	47.17	10.39	57.56	74	-16.44	peak
4924.147	31.99	10.39	42.38	54	-11.62	AVG
7386.129	42.1	12.68	54.78	74	-19.22	peak
7386.129	27.91	12.68	40.59	54	-13.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



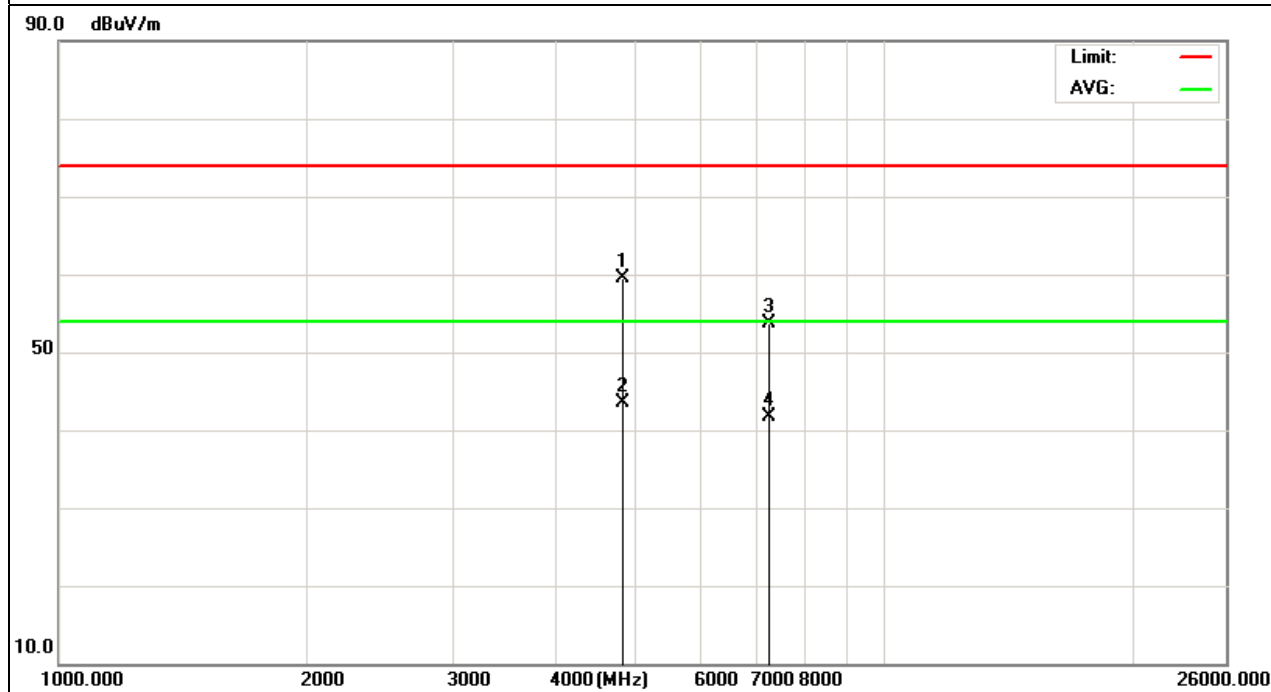


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11n Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.141	48.04	10.44	58.48	74	-15.52	peak
4824.141	31.99	10.44	42.43	54	-11.57	AVG
7236.095	40.37	12.39	52.76	74	-21.24	peak
7236.095	28.29	12.39	40.68	54	-13.32	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

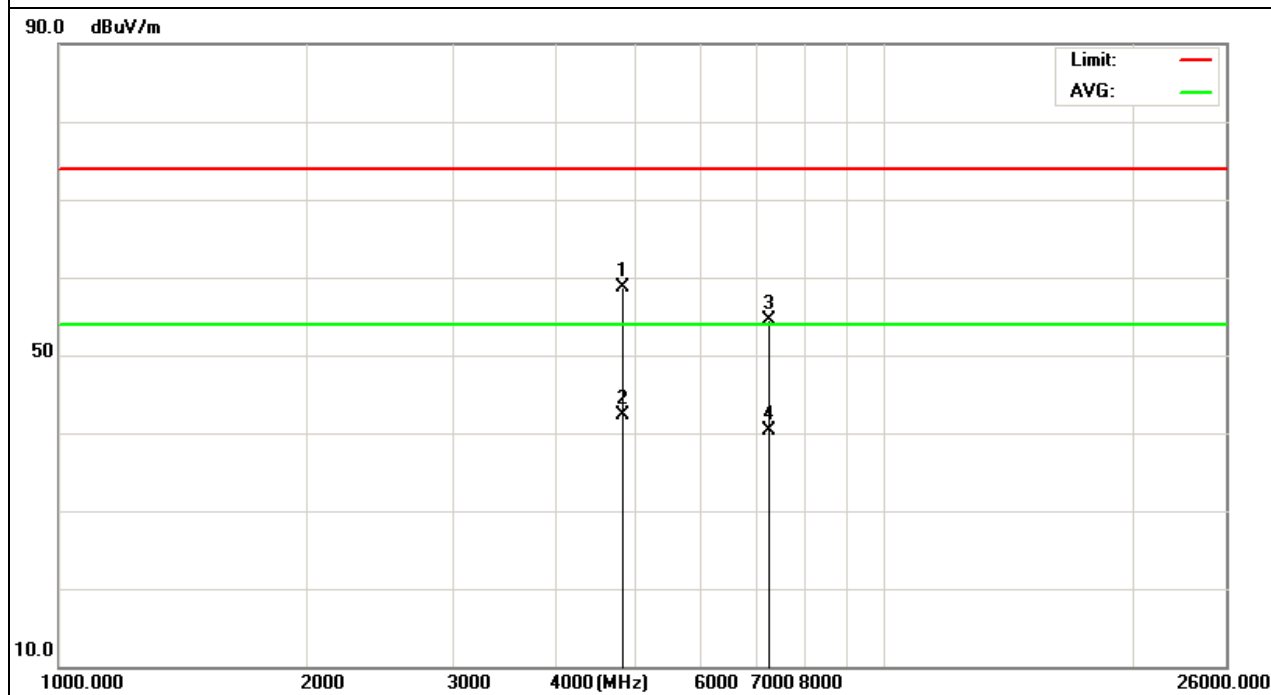




EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1 (802.11n Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.177	49.22	10.44	59.66	74	-14.34	peak
4824.177	32.91	10.44	43.35	54	-10.65	AVG
7236.183	43.08	12.39	55.47	74	-18.53	peak
7236.183	29	12.39	41.39	54	-12.61	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



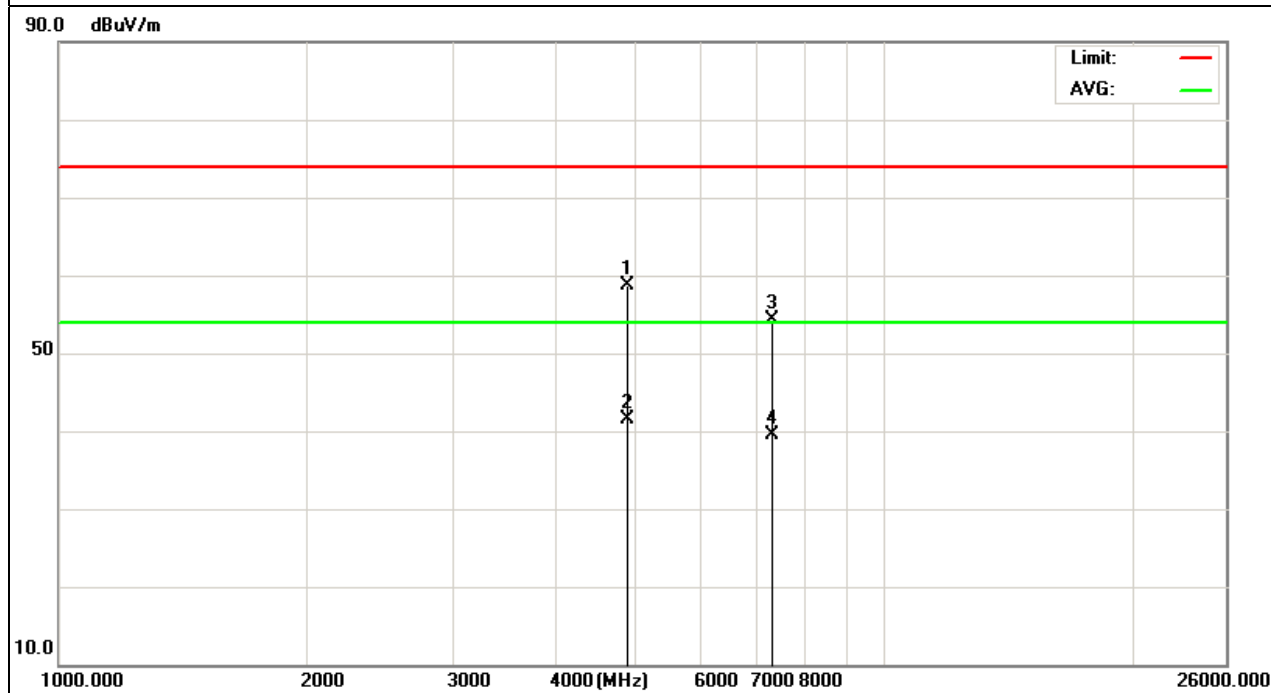


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11n Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.343	48.29	10.4	58.69	74	-15.31	peak
4874.343	31.09	10.4	41.49	54	-12.51	AVG
7311.365	41.68	12.75	54.43	74	-19.57	peak
7311.365	26.87	12.75	39.62	54	-14.38	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



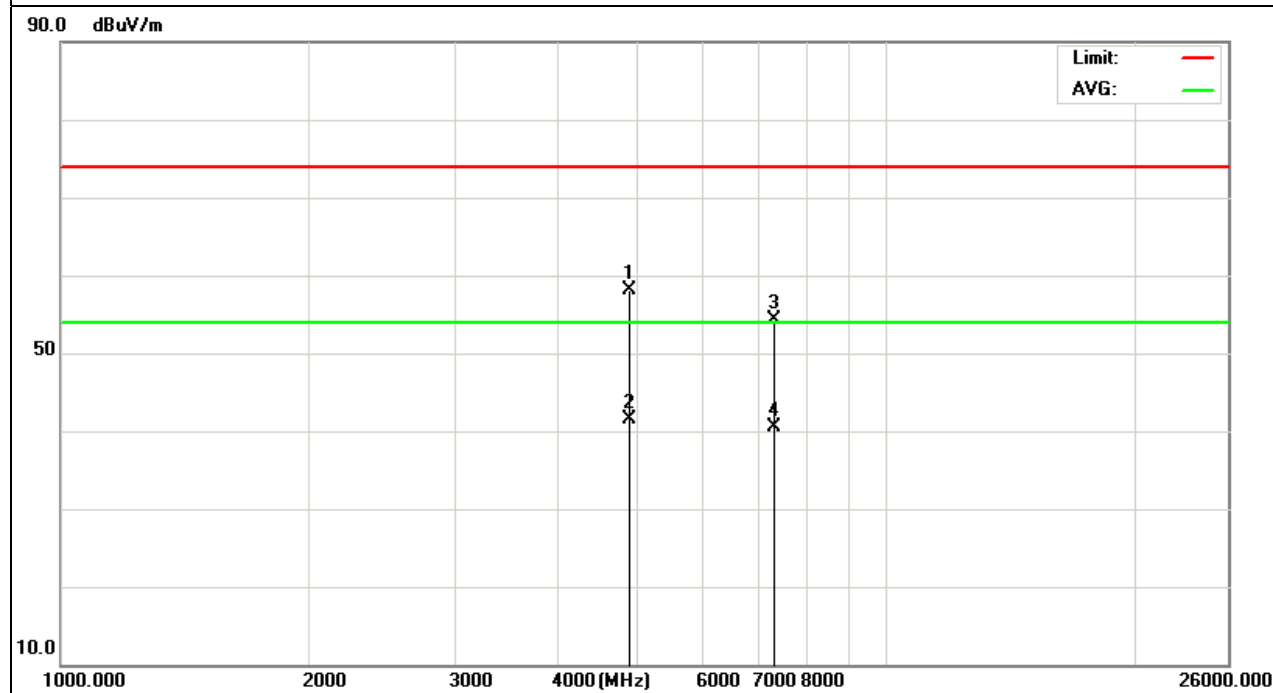


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH6 (802.11n Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.164	47.65	10.4	58.05	74	-15.95	peak
4874.164	31.07	10.4	41.47	54	-12.53	AVG
7311.215	41.52	12.75	54.27	74	-19.73	peak
7311.215	27.61	12.75	40.36	54	-13.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



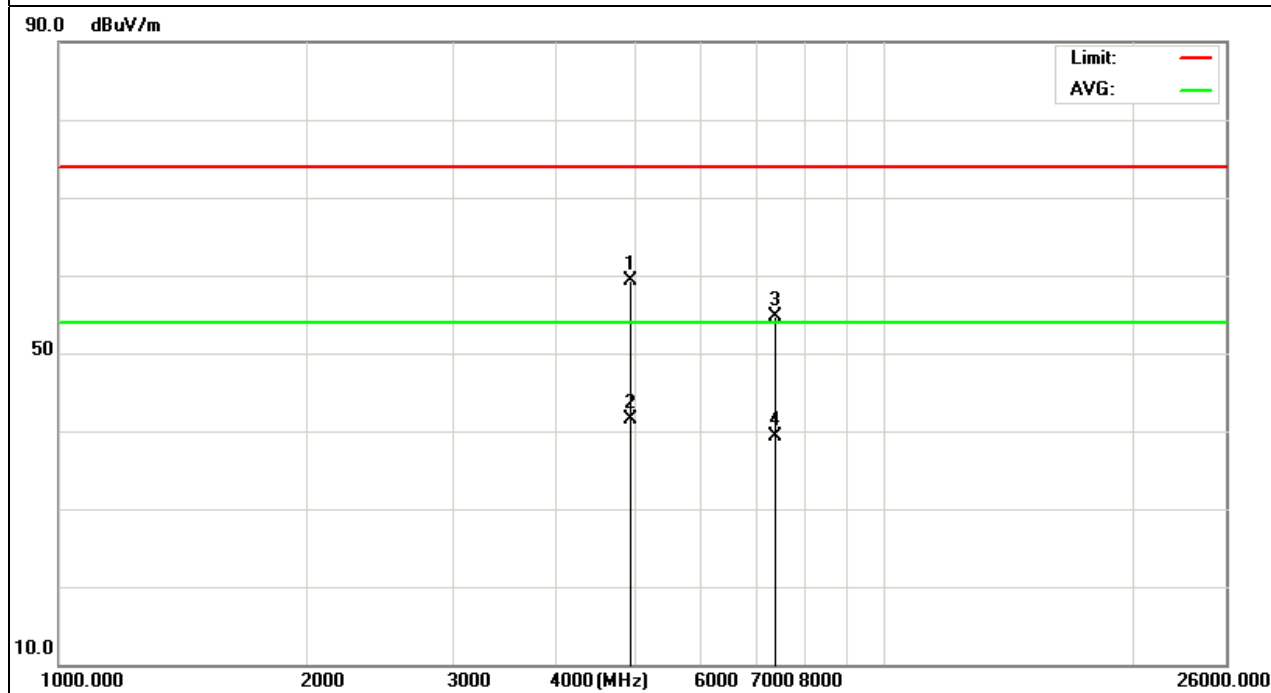


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11 (802.11n Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4925.124	48.92	10.39	59.31	74	-14.69	peak
4925.124	31.06	10.39	41.45	54	-12.55	AVG
7386.153	42.81	12.68	55.49	74	-18.51	peak
7386.153	26.53	12.68	39.21	54	-14.79	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





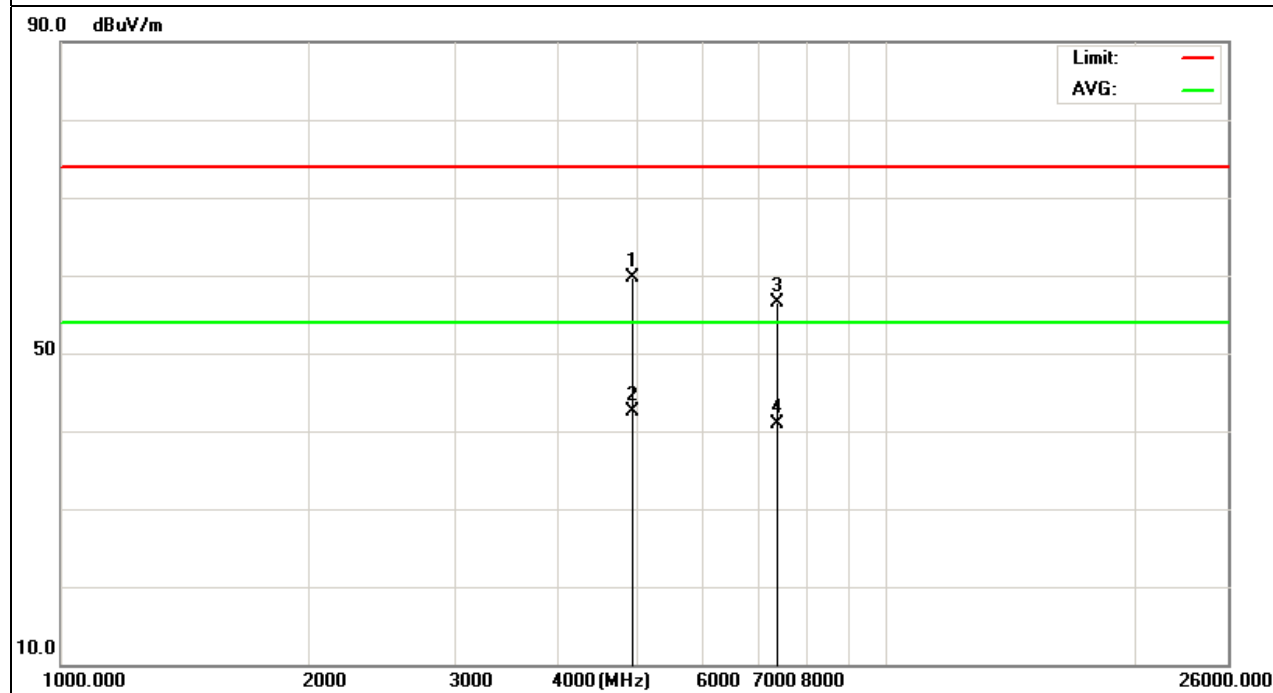


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11 (802.11n Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.121	49.12	10.39	59.51	74	-14.49	peak
4924.121	32.06	10.39	42.45	54	-11.55	AVG
7386.147	43.72	12.68	56.4	74	-17.6	peak
7386.147	28.08	12.68	40.76	54	-13.24	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





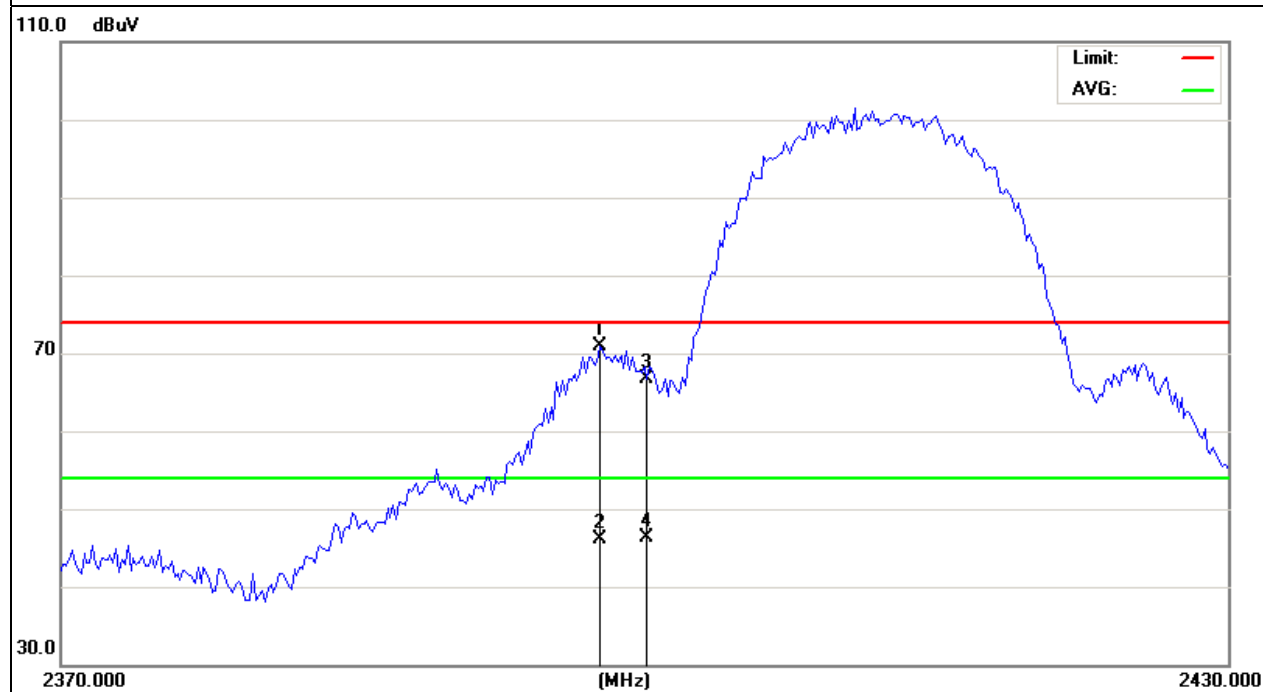
## Band Edge Emission:

EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2397.5	83.5	-13	70.5	74	-3.5	peak
2397.5	59.12	-13	46.12	54	-7.88	AVG
2400	79.61	-12.99	66.62	74	-7.38	peak
2400	59.37	-12.99	46.38	54	-7.62	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



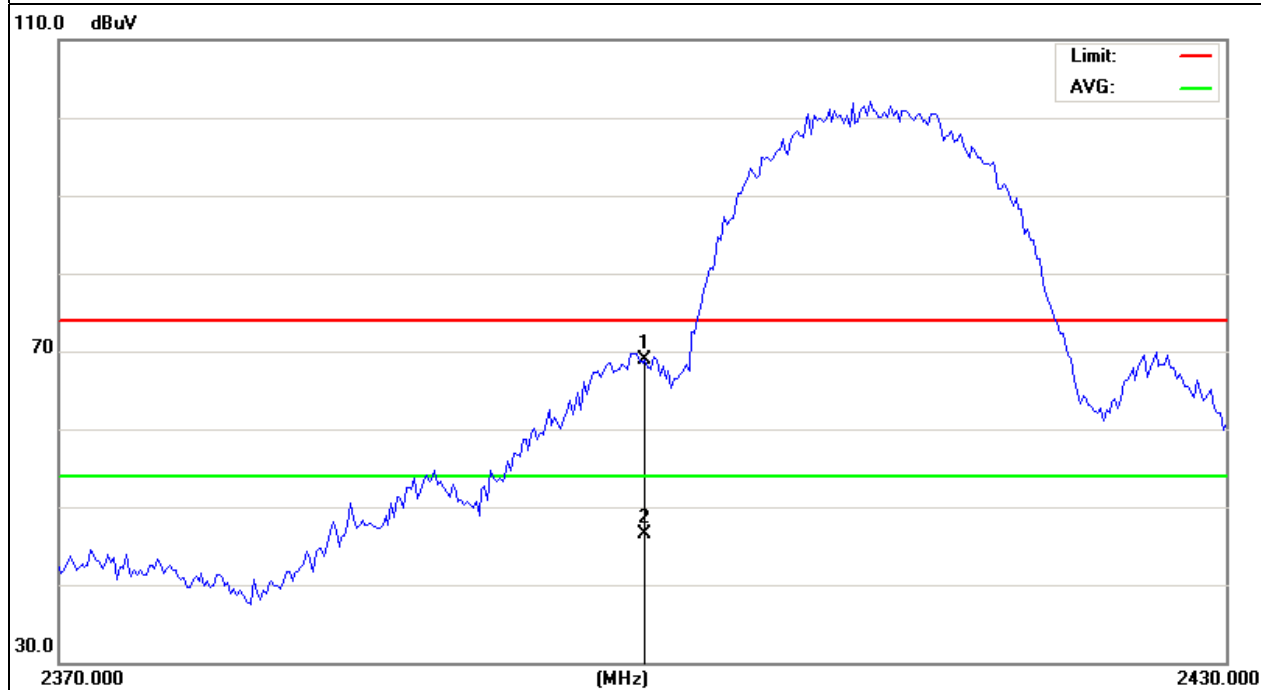


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	81.89	-12.99	68.9	74	-5.1	peak
2400	59.38	-12.99	46.39	54	-7.61	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



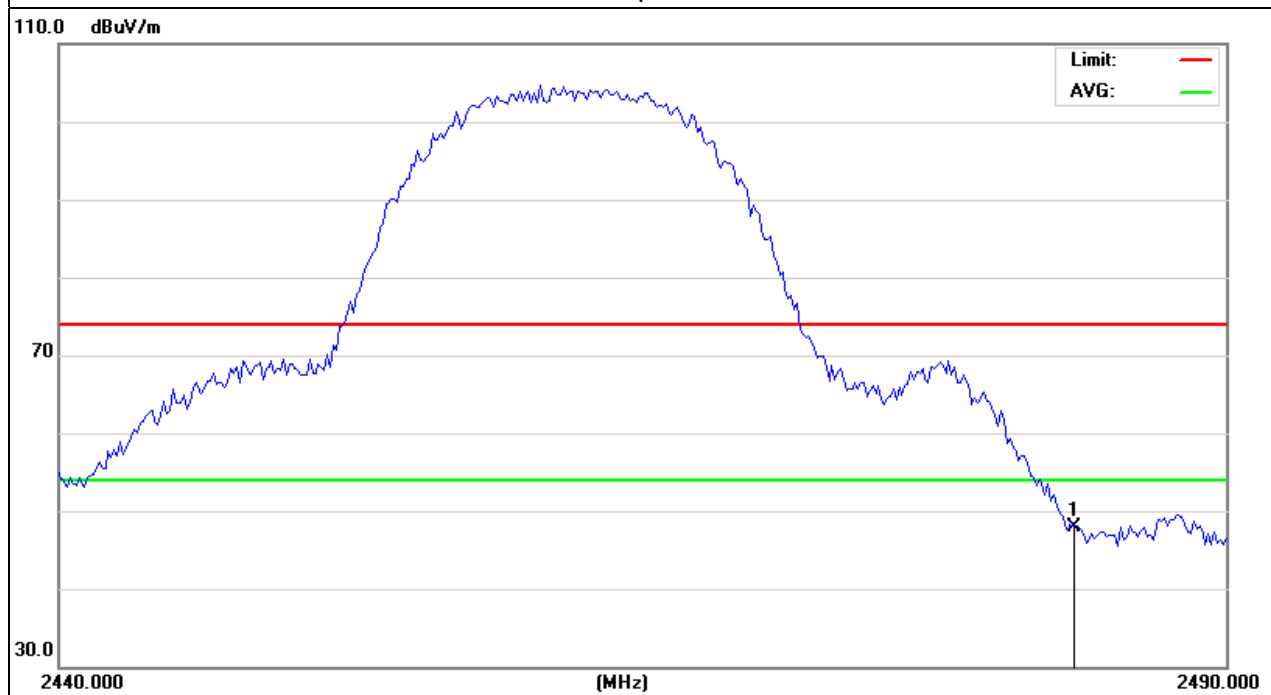


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	60.38	-12.78	47.6	74	-26.4	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



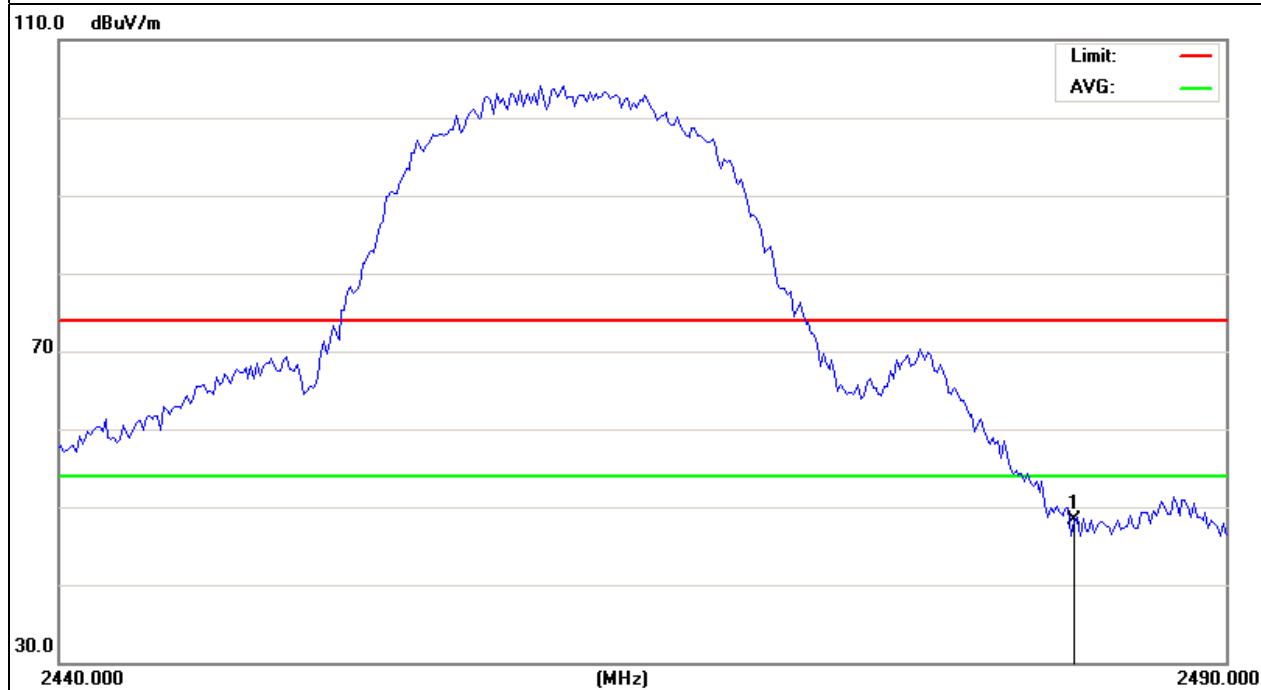


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	60.18	-12.78	47.4	74	-26.6	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



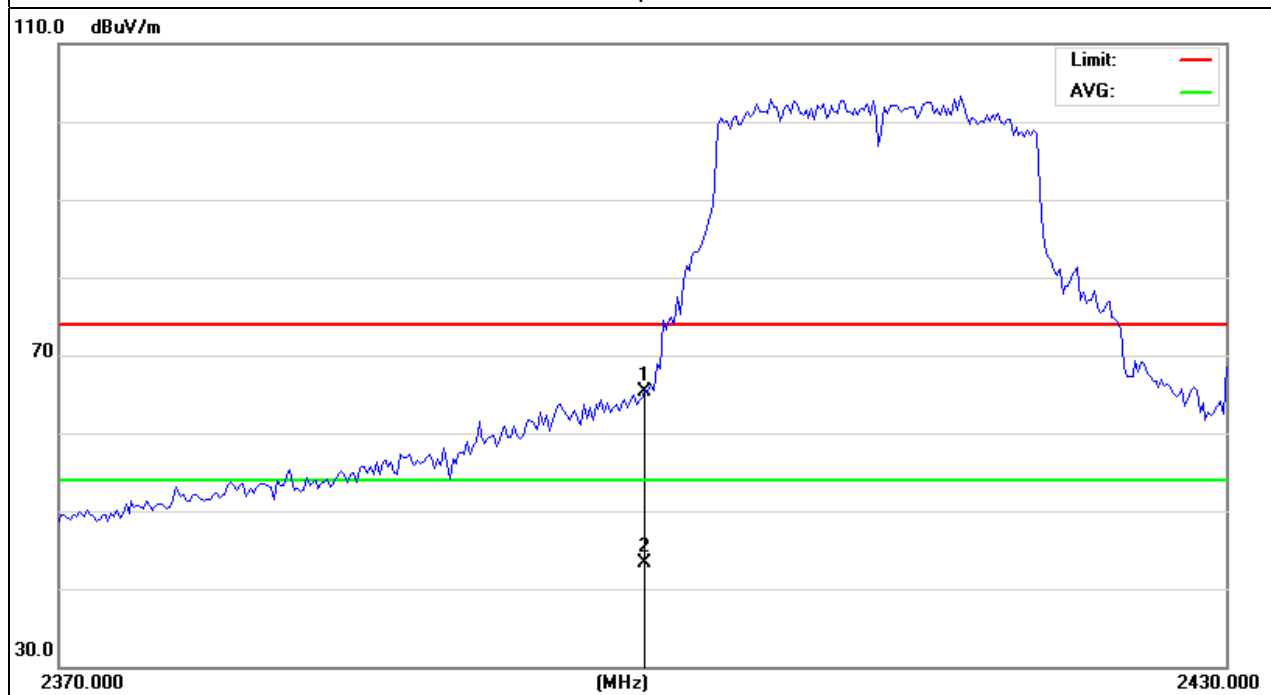


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	78.12	-12.99	65.13	74	-8.87	peak
2400	56.2	-12.99	43.21	54	-10.79	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



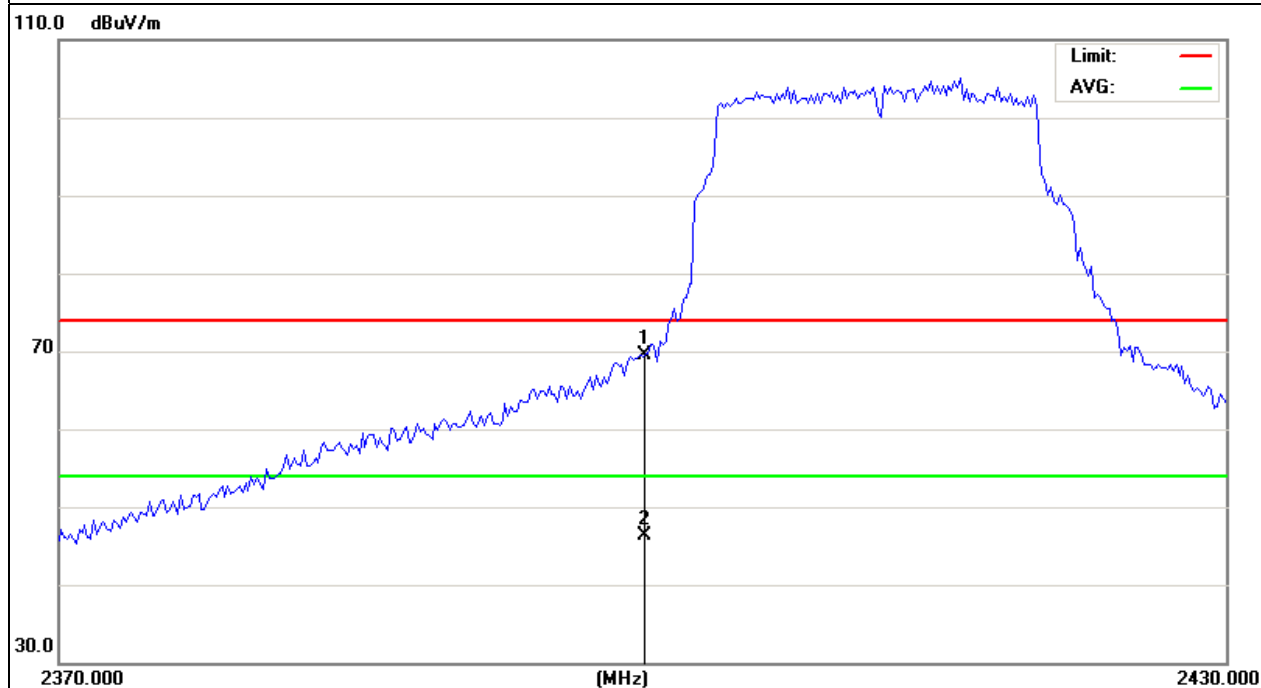


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	81.59	-12.99	68.6	74	-5.4	peak
2400	55.37	-12.99	42.38	54	-11.62	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



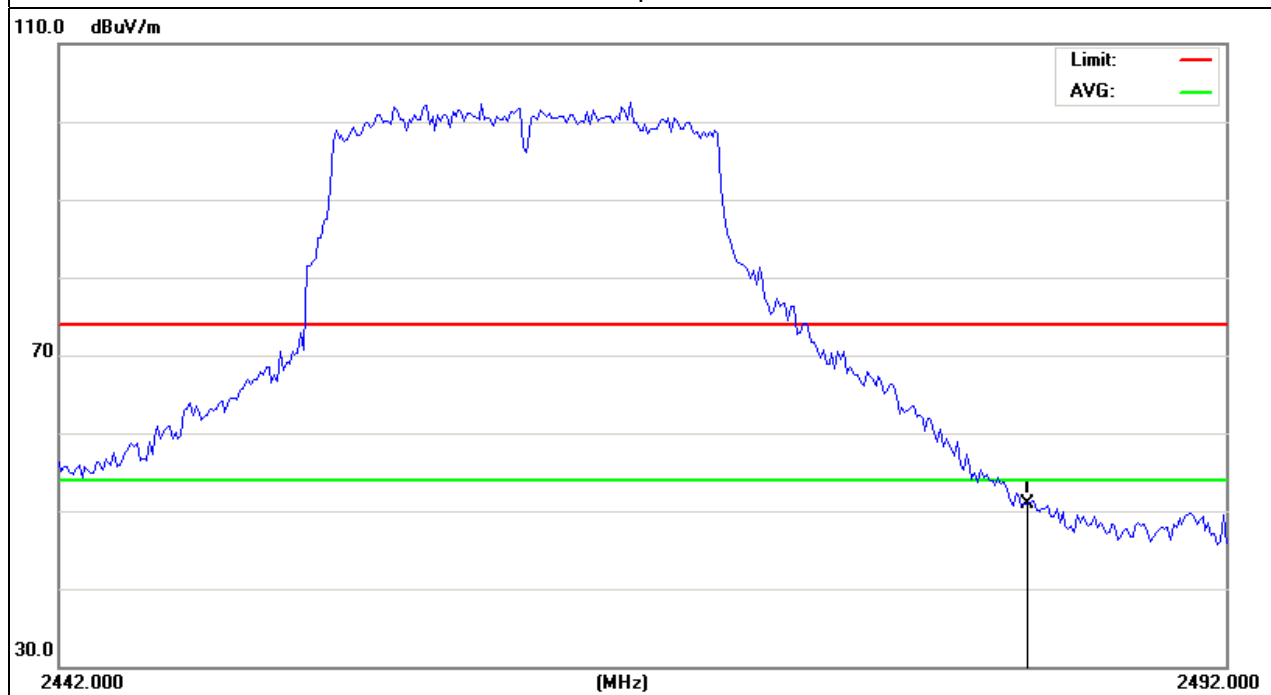


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.68	-12.78	49.9	74	-24.1	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





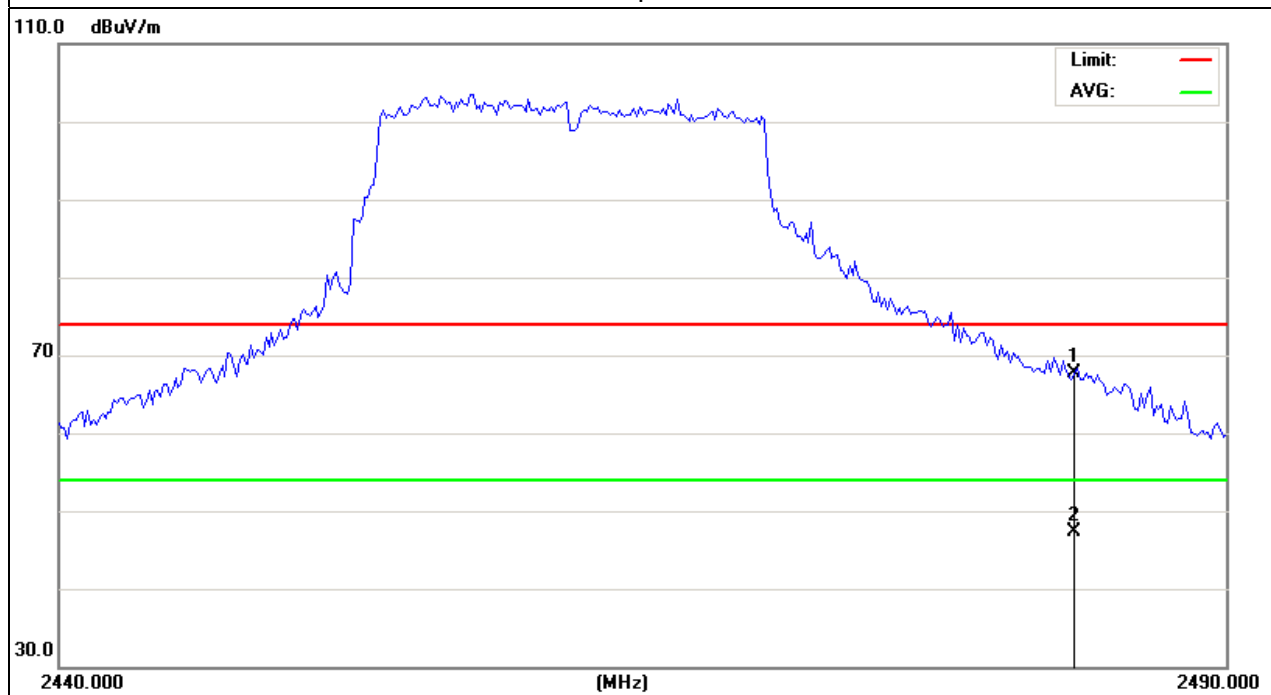


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	81.4	-12.78	68.62	74	-5.38	peak
2483.5	61.15	-12.78	48.37	54	-5.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



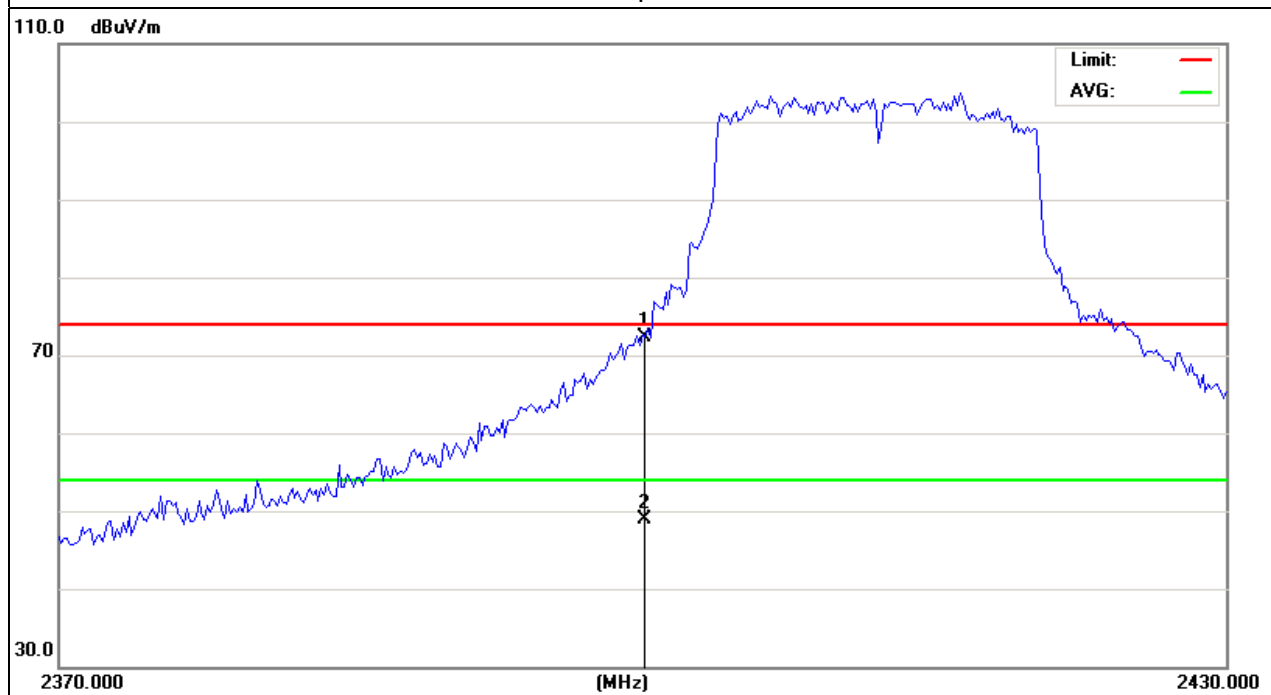


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	85.22	-12.99	72.23	74	-1.77	peak
2400	61.81	-12.99	48.82	54	-5.18	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



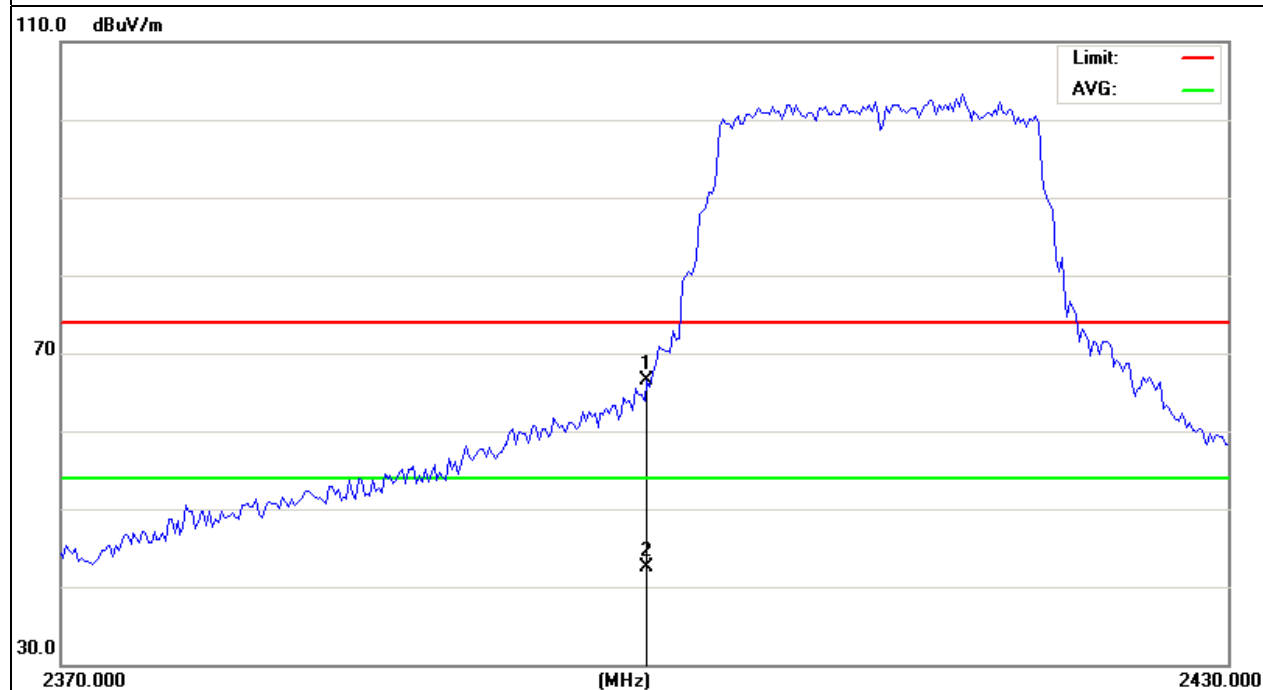


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	78.59	-12.99	65.6	74	-8.4	peak
2400	54.54	-12.99	41.55	54	-12.45	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



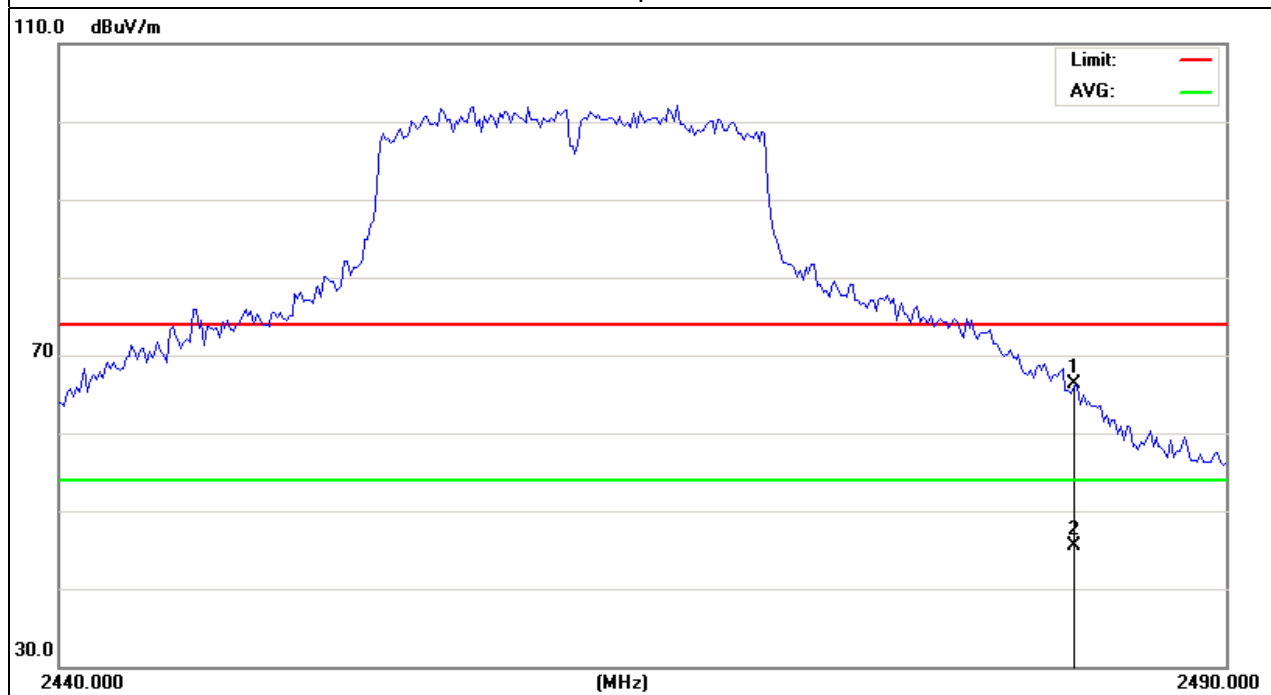


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	79.18	-12.78	66.4	74	-7.6	peak
2483.5	58.26	-12.78	45.48	54	-8.52	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



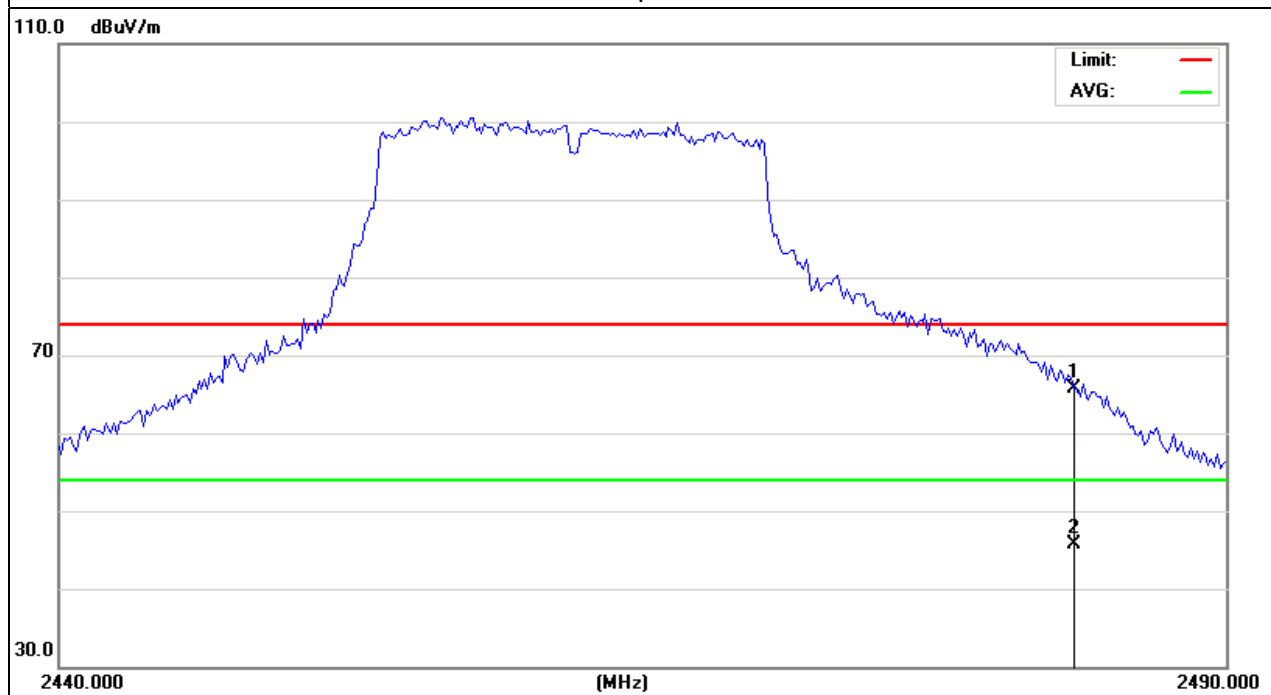


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	78.14	-12.78	65.36	74	-8.64	peak
2483.5	58.06	-12.78	45.28	54	-8.72	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





## 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. Set the RBW  $\geq 3$  kHz.
4. Set the VBW  $\geq 3 \times$  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.
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

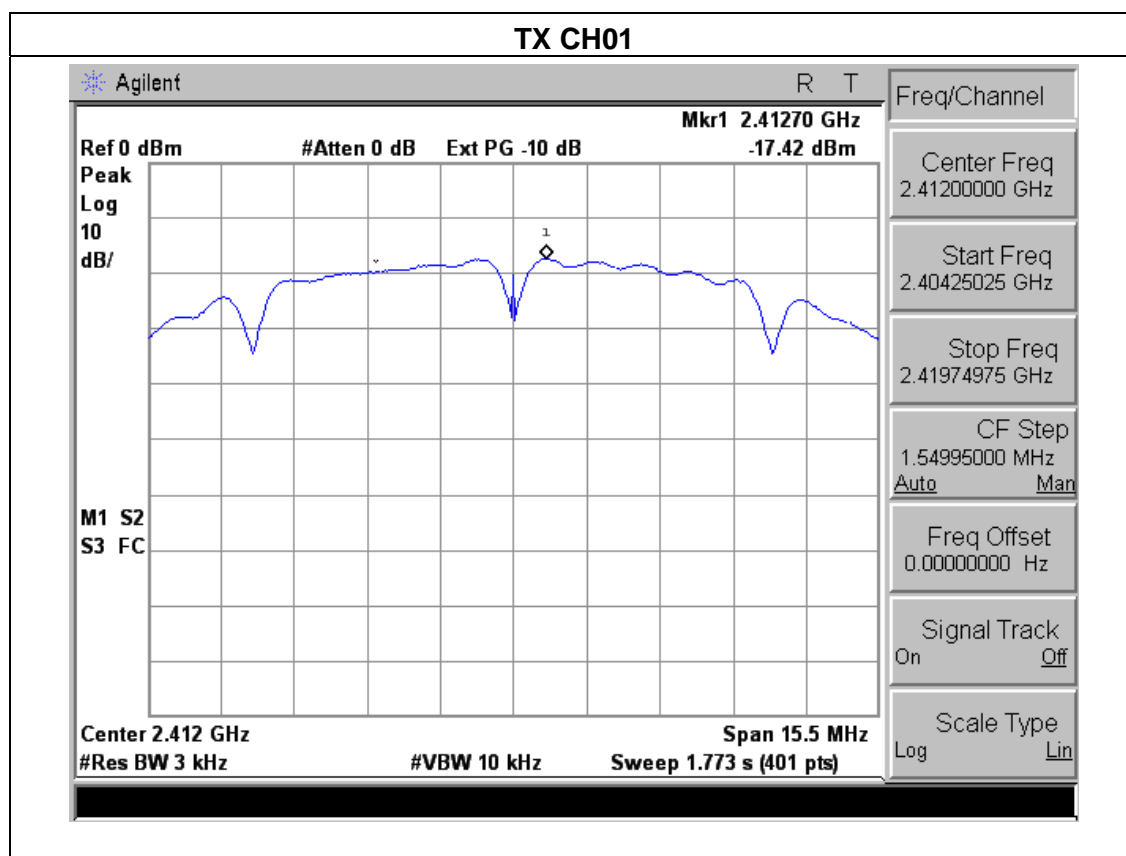
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

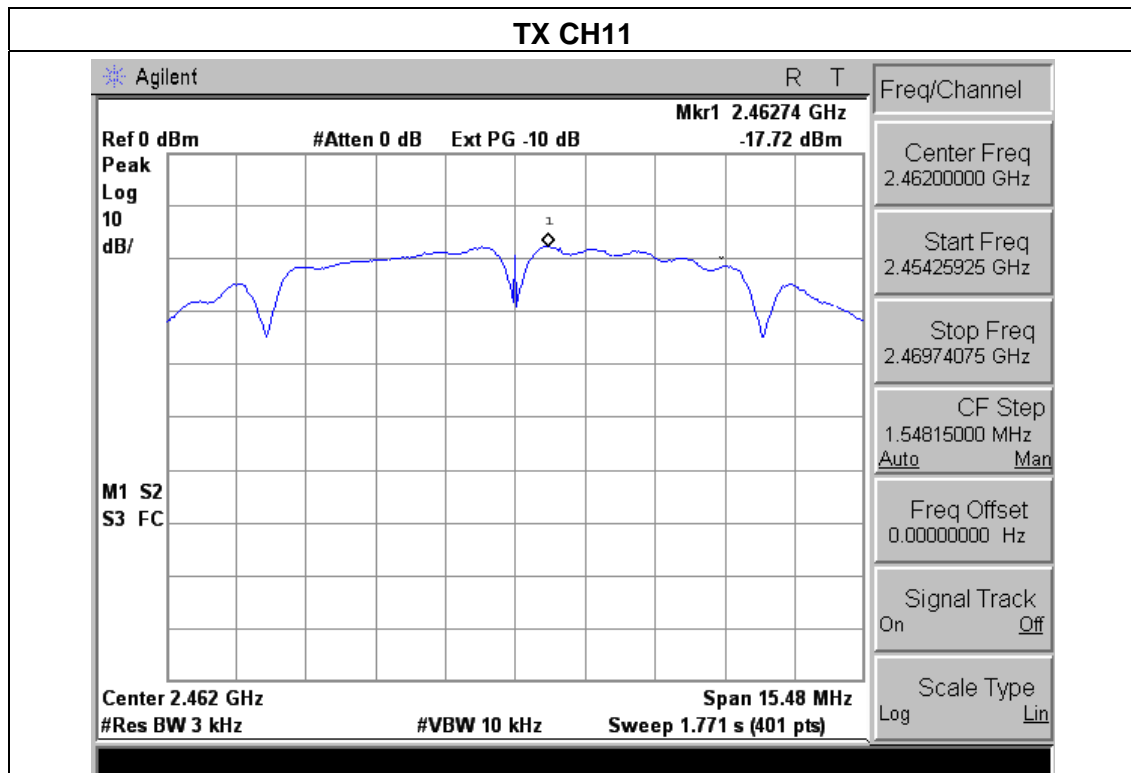
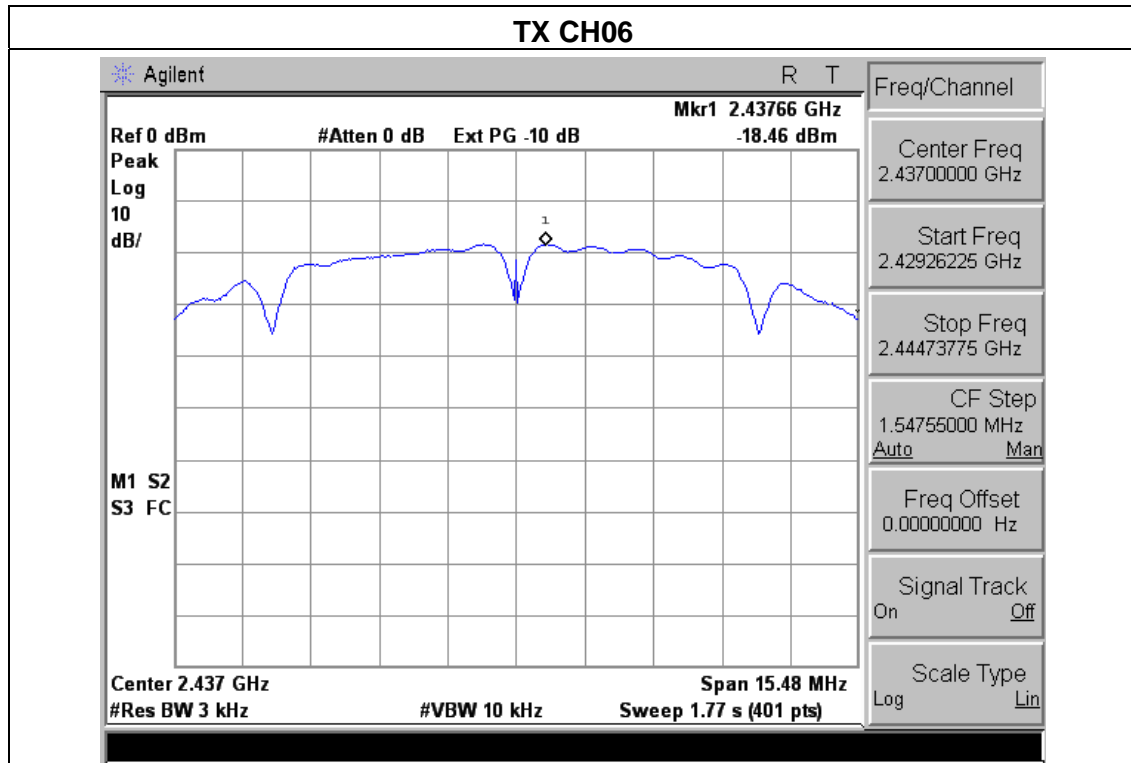


#### 4.1.5 TEST RESULTS

EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	-17.42	8	<b>PASS</b>
2437 MHz	-18.46	8	<b>PASS</b>
2462 MHz	-17.72	8	<b>PASS</b>



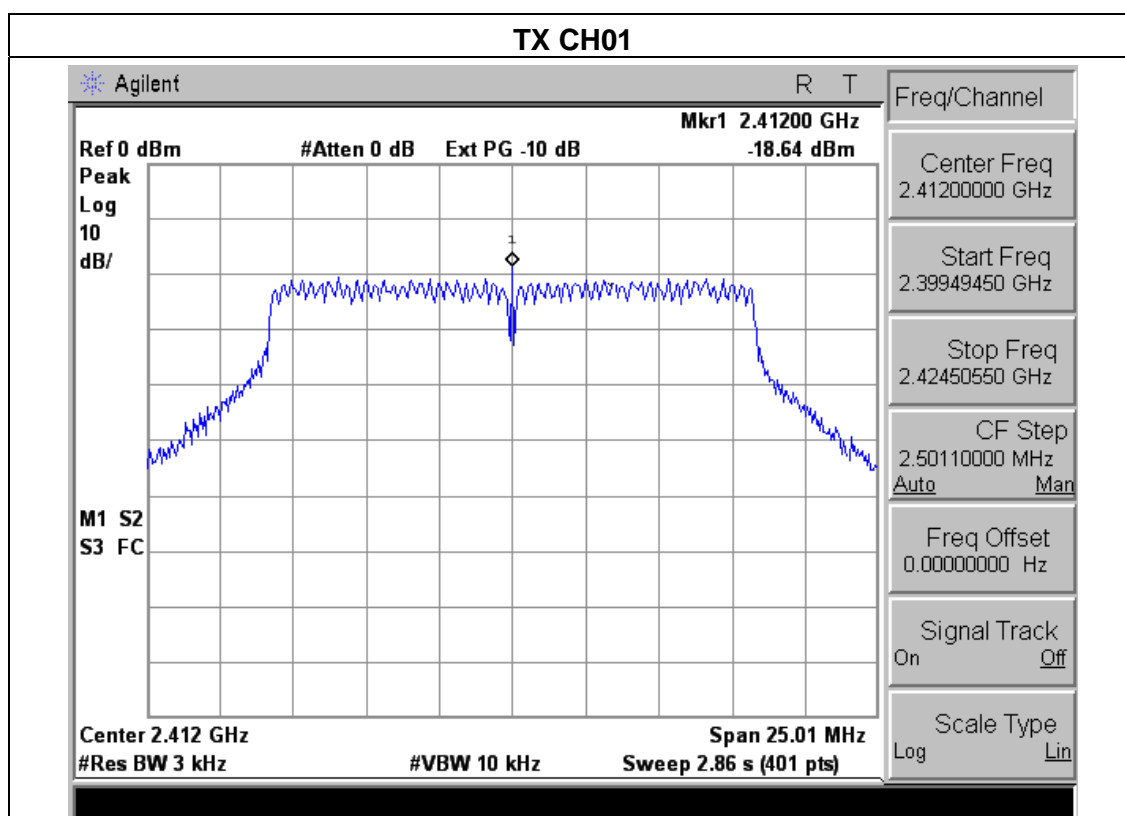


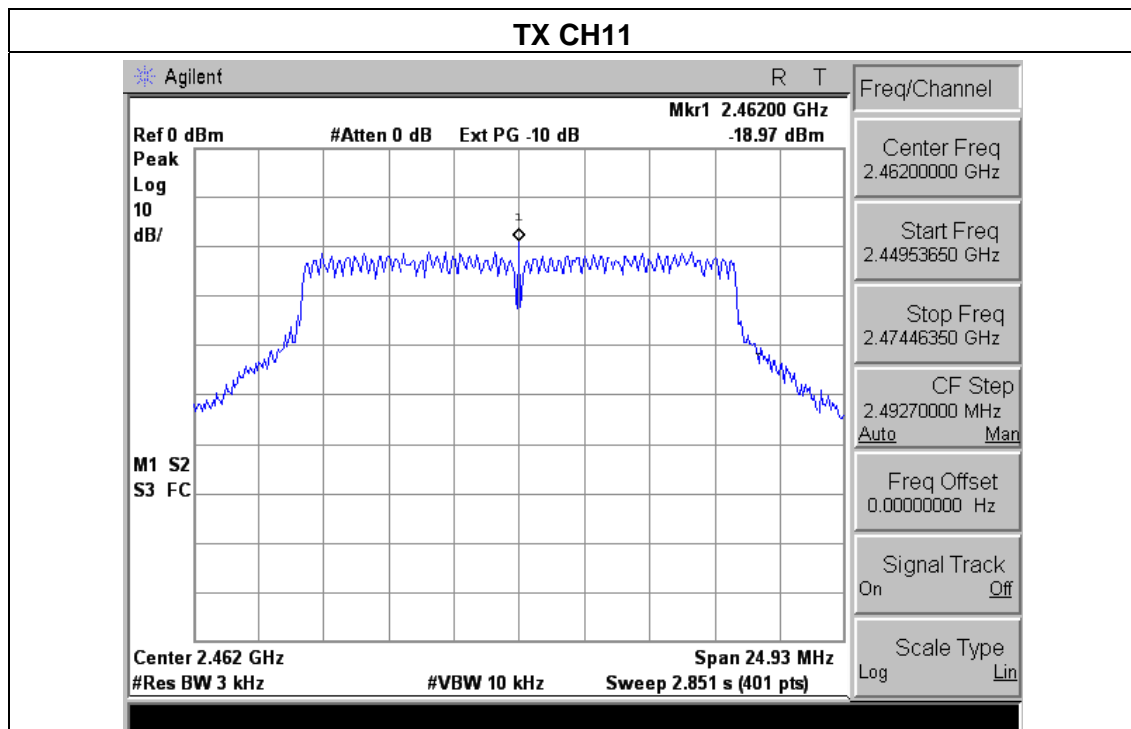
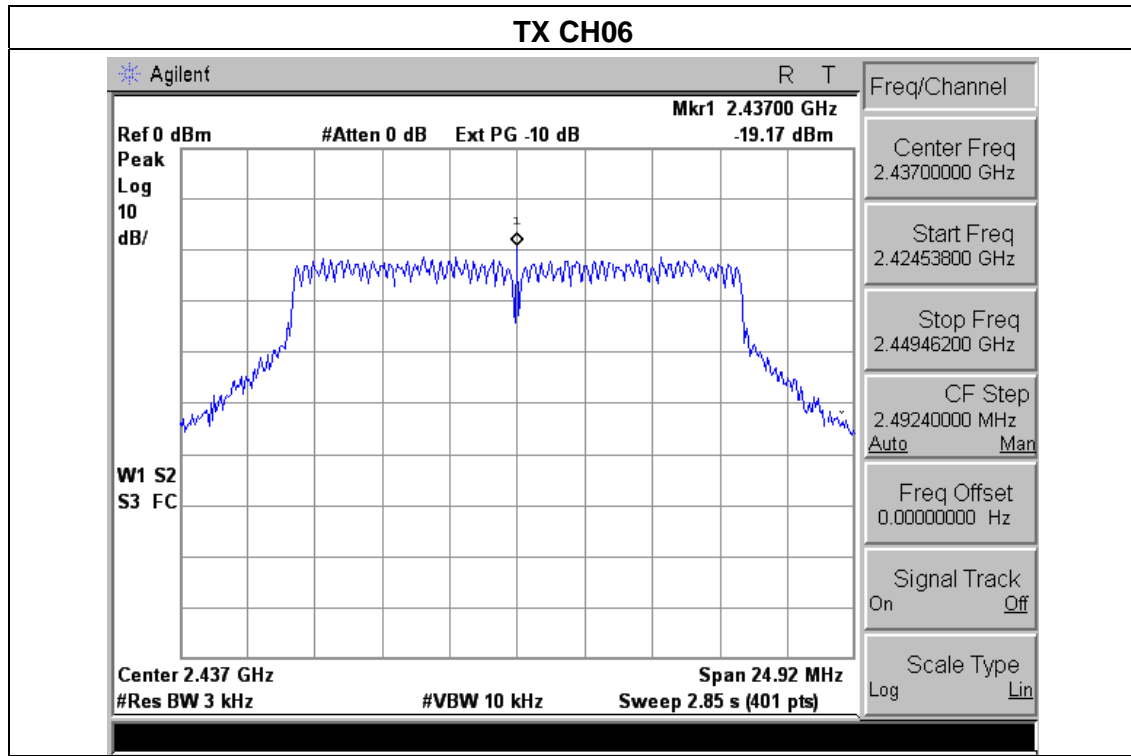




EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	-18.64	8	<b>PASS</b>
2437 MHz	-19.17	8	<b>PASS</b>
2462 MHz	-18.97	8	<b>PASS</b>

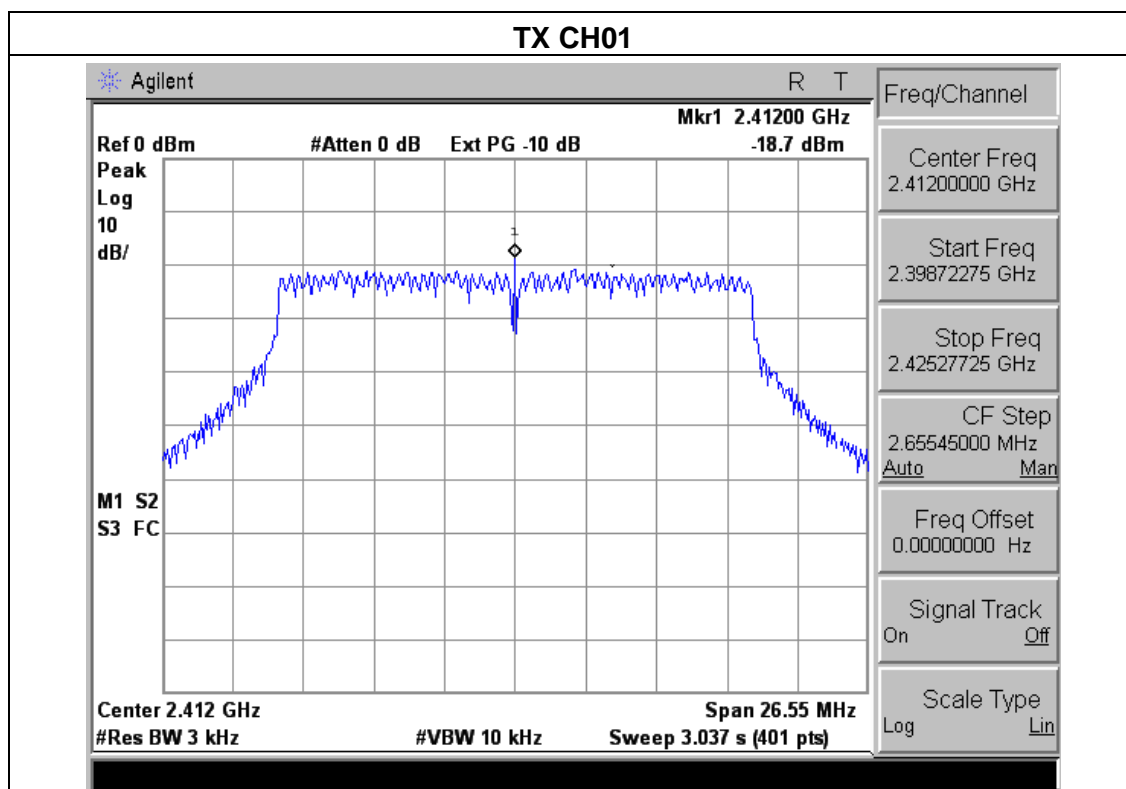


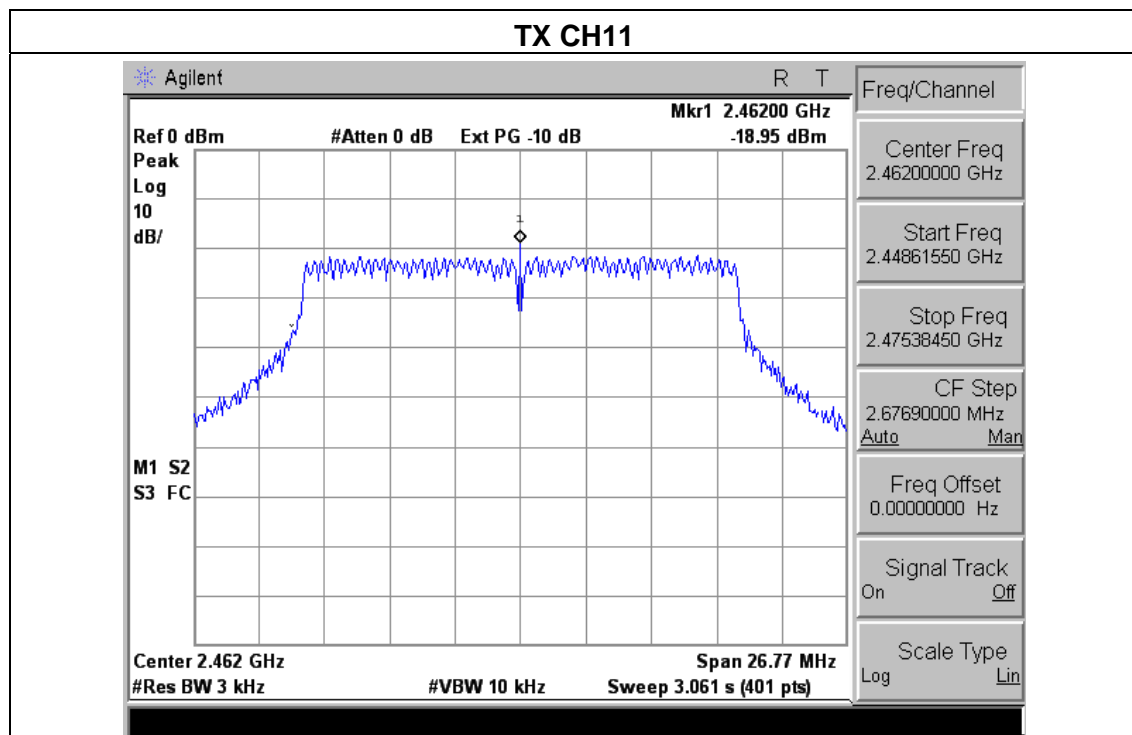
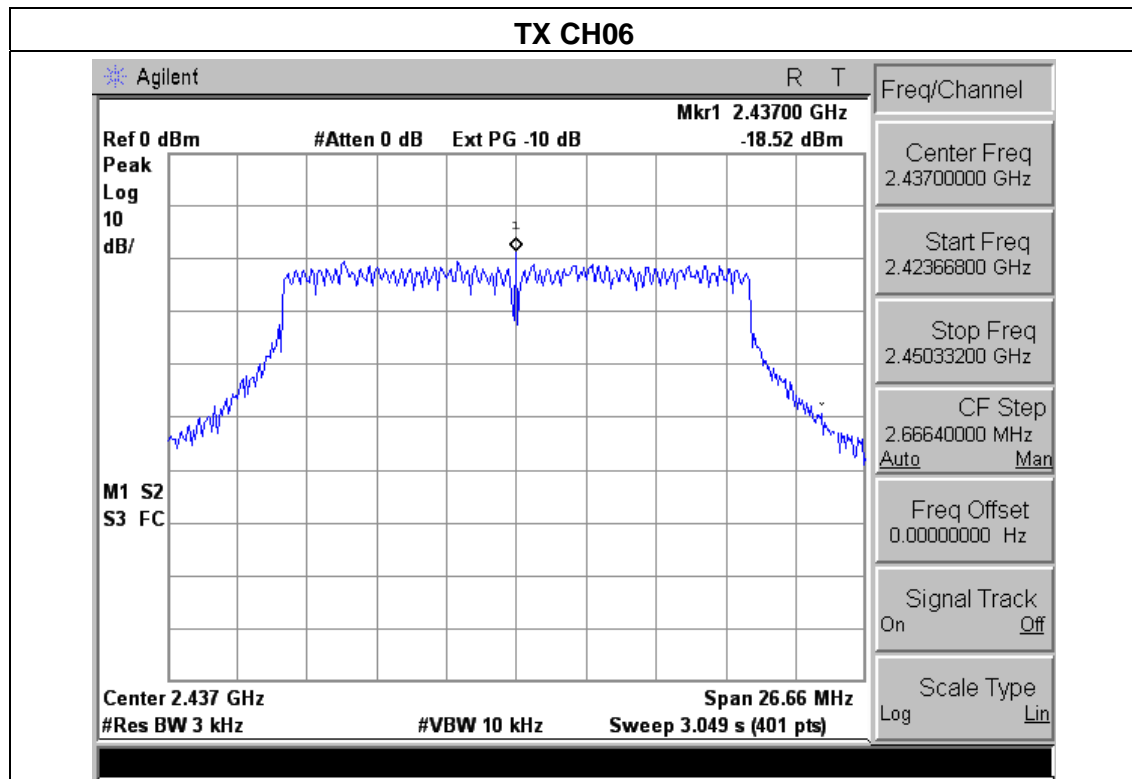




EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode /CH01, CH06, CH11		

Frequency	PSD/ 3KHz (dBm)	Limit (dBm)	Result
2412 MHz	-18.70	8	<b>PASS</b>
2437 MHz	-18.52	8	<b>PASS</b>
2462 MHz	-18.95	8	<b>PASS</b>







## 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

a.

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.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

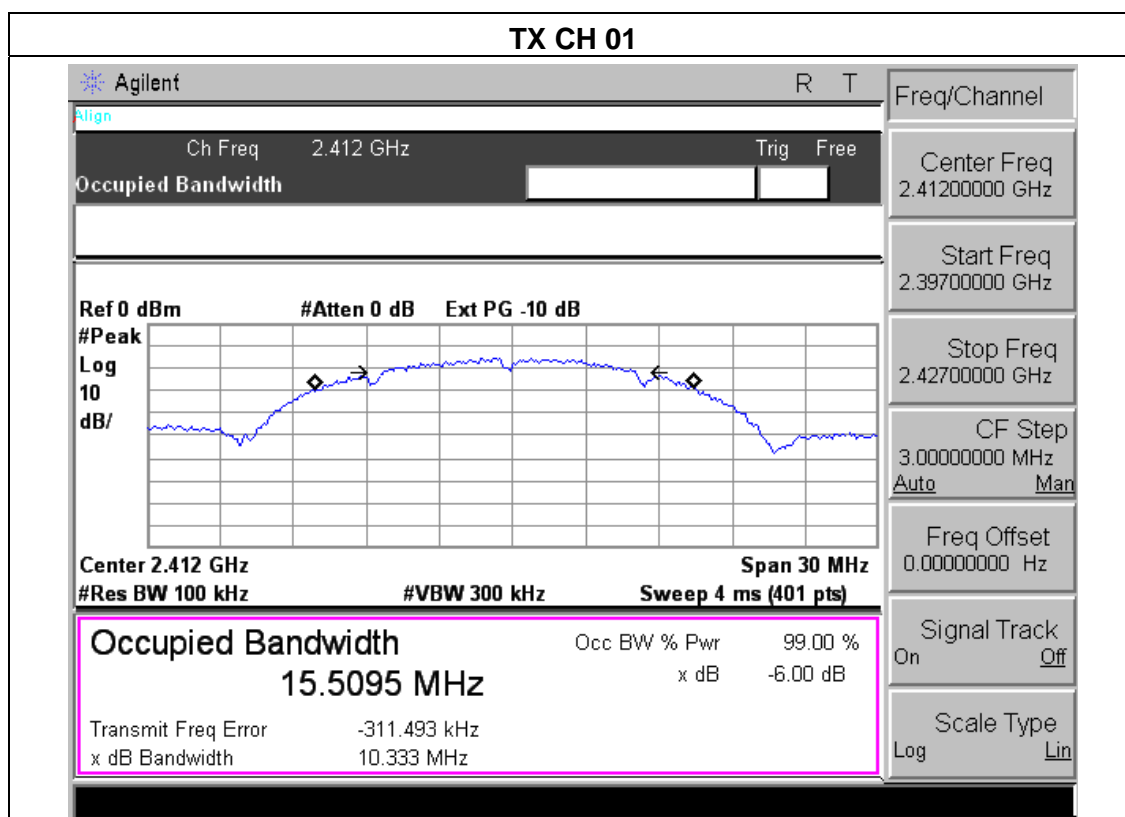
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

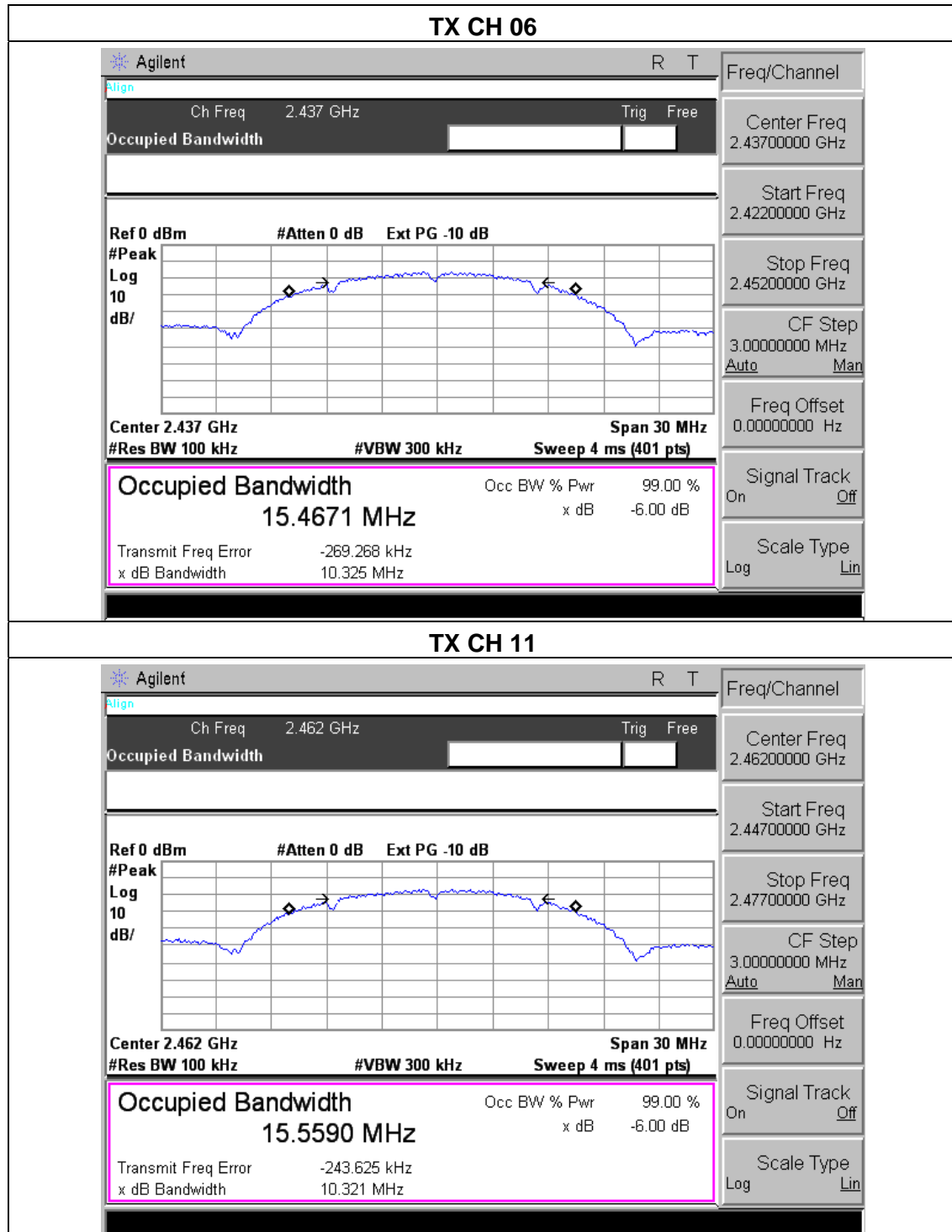


### 5.1.5 TEST RESULTS

EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.33	500	Pass
Middle	2437	10.33	500	Pass
High	2462	10.32	500	Pass

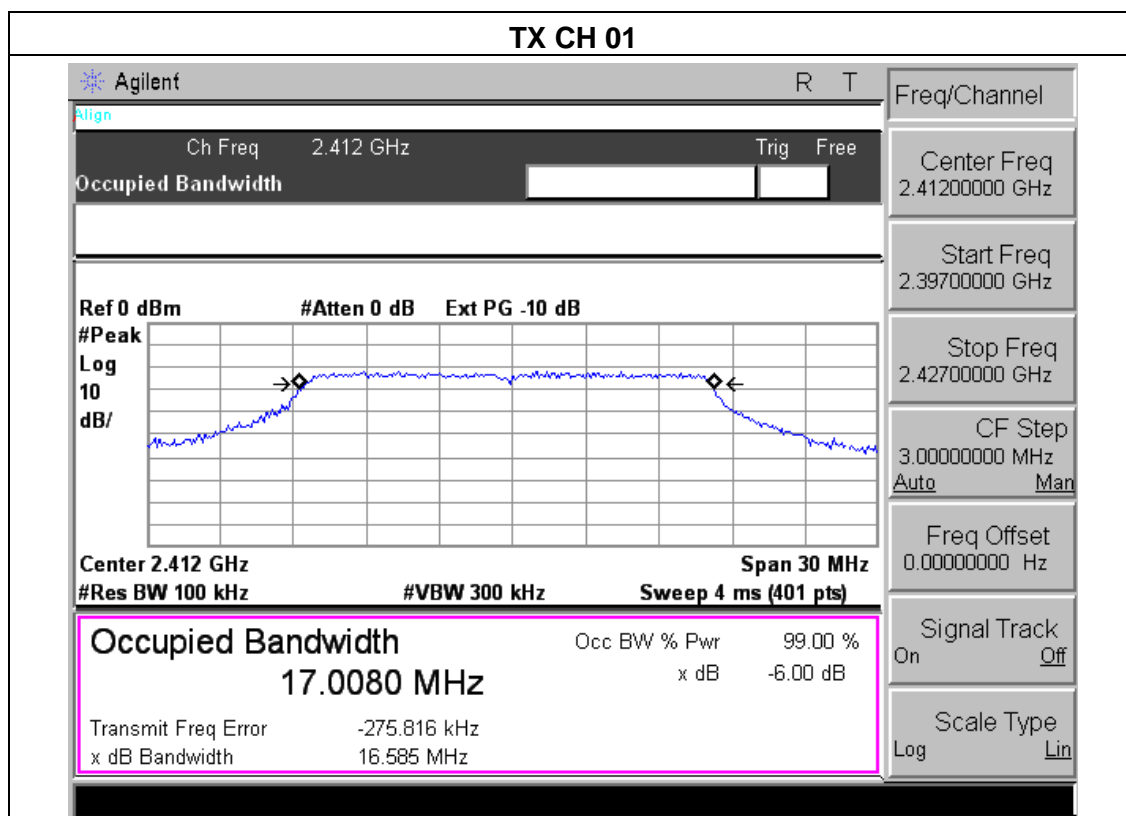




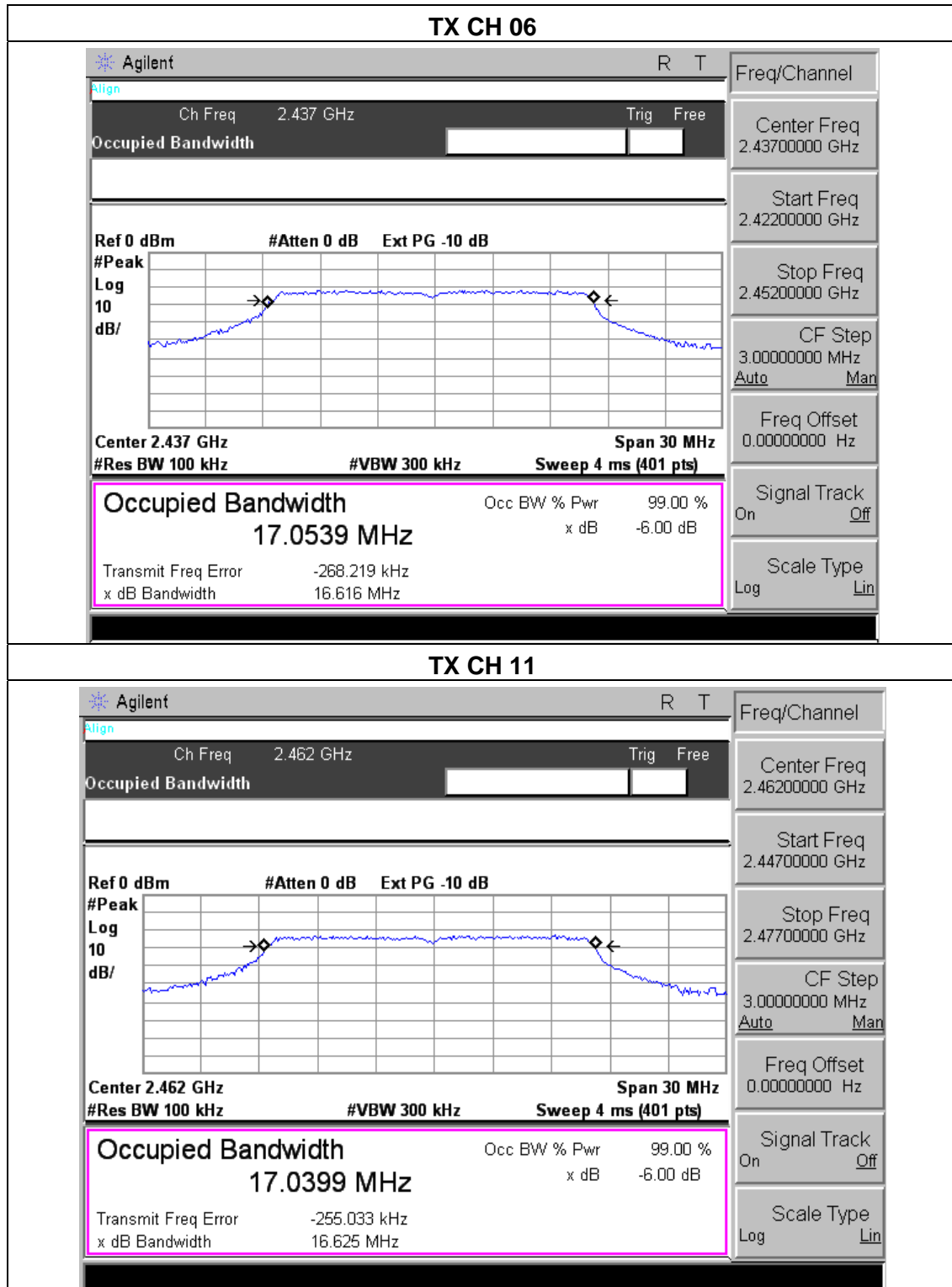


EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.59	500	Pass
Middle	2437	16.62	500	Pass
High	2462	16.63	500	Pass



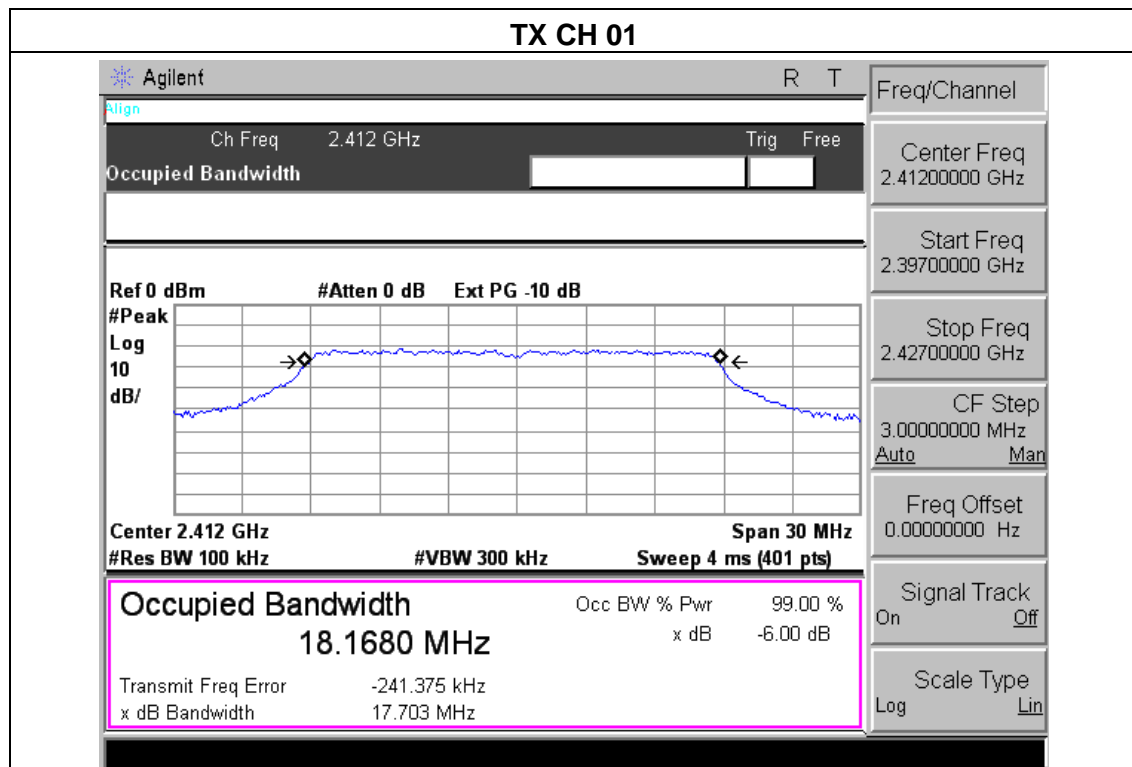


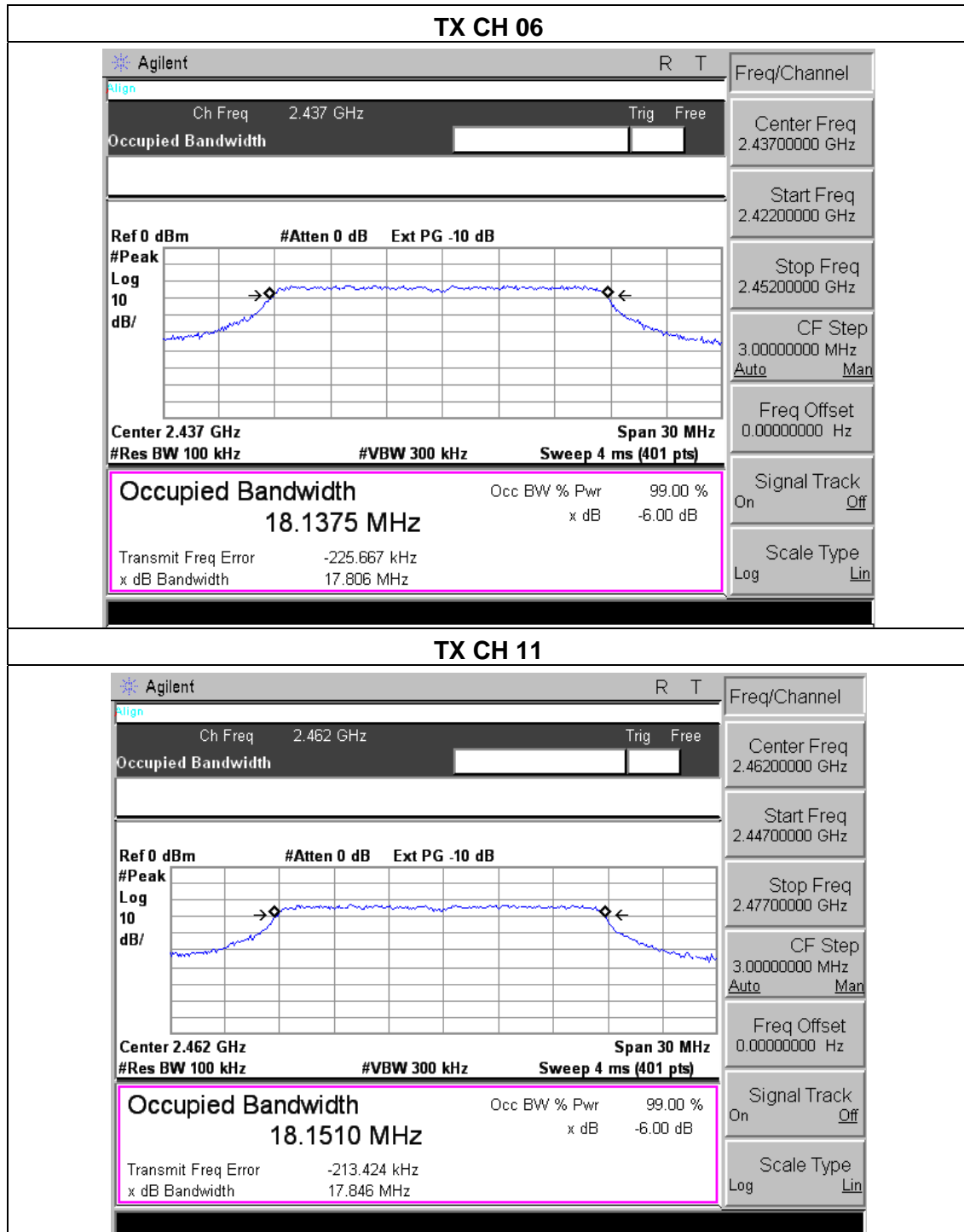




EUT :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.70	500	Pass
Middle	2437	17.81	500	Pass
High	2462	17.85	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 :	Android TV Box	Model Name :	ITV38
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b/g/n Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channel	Frequency (MHz)	Peak output power. Antenna port (dBm)	LIMIT dBm
CH01	2412	16.24	30
CH06	2437	16.09	30
CH11	2462	16.66	30
TX 802.11g Mode			
CH01	2412	14.23	30
CH06	2437	14.02	30
CH11	2462	14.11	30
TX 802.11n Mode			
CH01	2412	14.32	30
CH06	2437	14.13	30
CH11	2462	14.07	30



## **7. ANTENNA REQUIREMENT**

### **7.1 STANDARD REQUIREMENT**

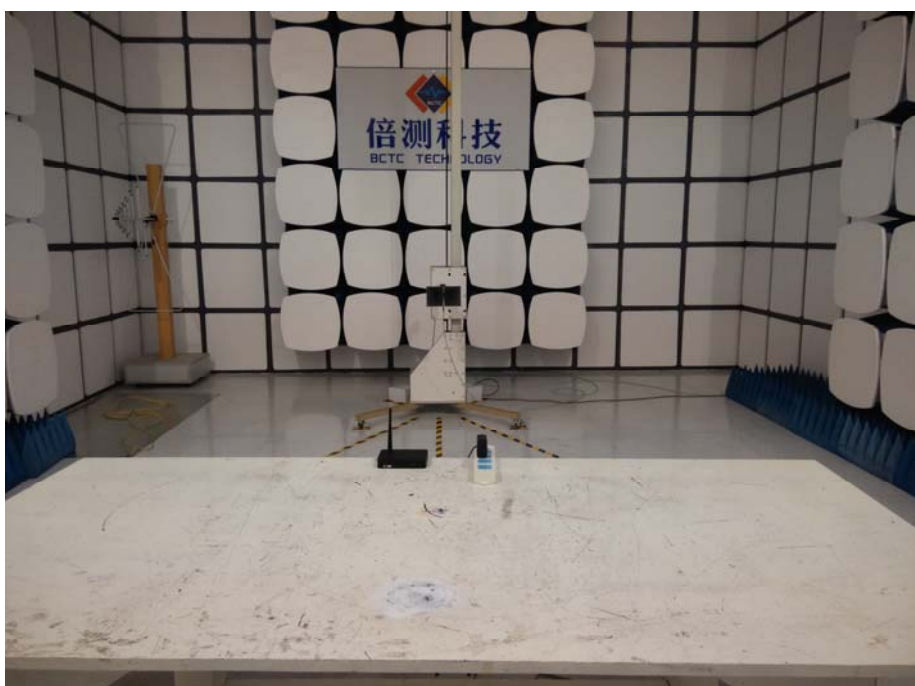
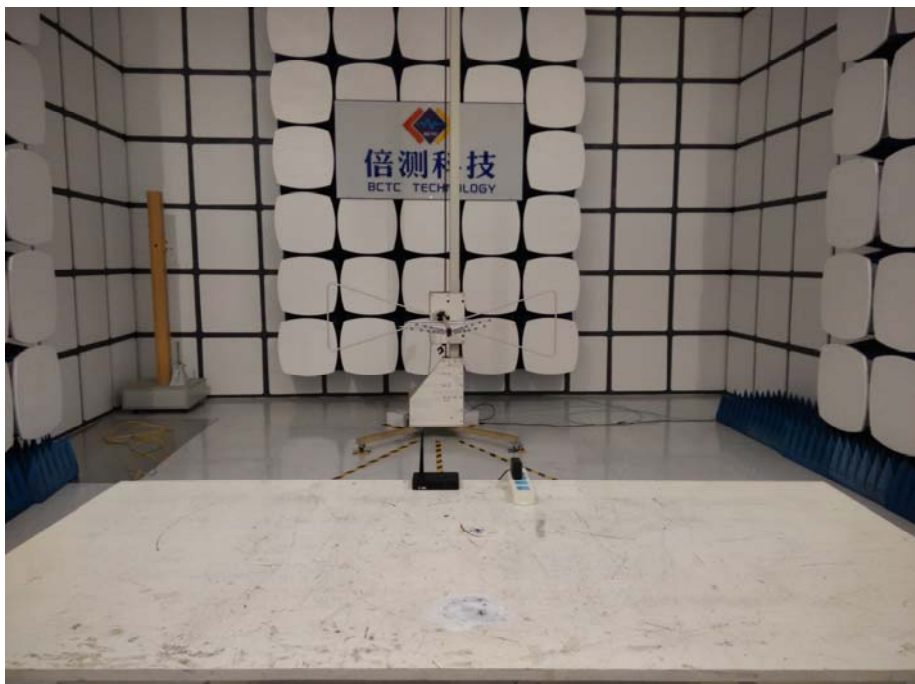
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **7.2 EUT ANTENNA**

The EUT antenna is Integrated antenna (Gain,2.0dbi) . It comply with the standard requirement.

## 8. EUT TEST PHOTO

### Radiated Measurement Photos





### Conducted Measurement Photos

