



# **FCC RADIO TEST REPORT**

## **FCC ID: 2AFPU-ATS-UCOWS001**

Product : UCOWS Cow Activity Collector  
Trade Name : UCOWS  
Model No : ATS-UCOWS001  
Serial Model : N/A

Applicant's name : Yinchuan aotoso Information Technology Co Ltd  
Address : Yinchuan City, Ningxia City, water and water road, small and medium  
enterprise venture base building 1

Prepared By : Nowd Testing Services Co.,Ltd.  
No. 606, FuerYuanjian Business Centre, 25 Zone, Bao'an District,  
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Report No. : NTS 150614060R

Date of Test : Jun.14, 2015

Date of Rep. : Jul. 20, 2015

## TEST RESULT CERTIFICATION

**Applicant's name** ..... Yinchuan aotoso Information Technology Co Ltd  
**Address** ..... Yinchuan City, Ningxia City, water and water road, small and medium enterprise venture base building 1

**Manufacture's Name**... Yinchuan aotoso Information Technology Co Ltd  
**Address** ..... Yinchuan City, Ningxia City, water and water road, small and medium enterprise venture base building 1

### Product description

**Product name**.....UCOWS Cow Activity Collector

**Model and/or type reference** ..... ATS-UCOWS001

**Serial Model** ..... N/A

**Standards** ..... FCC Part15.249 01 Oct. 2014

**Test procedure** ..... ANSI C63.10-2013

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

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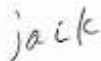
**Date of Test**.....

**Date (s) of performance of tests**..... 14 Jun. 2015 ~20 Jul. 2015

**Date of Issue**..... 20 Jul. 2015

**Test Result**..... **Pass**

Prepared by:



Jack Wu  
Testing Engineer

Reviewed by:



Andy Xie  
Technical Manager

Approved by:



somnus  
Authorized Signatory

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**1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

<b>FCC Part15, Subpart C (15.249)</b>			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	Pass	
15.203	Antenna Requirement	Pass	
15.249	Radiated Spurious Emission	Pass	
15.205	Band Edge Emission	Pass	
15.249	Occupied Bandwidth	Pass	

## 1.1 TEST FACILITY

Nowd Testing Services Co.,Ltd.

Add. : No. 606, FuerYuanjian Business Centre, 25 Zone, Bao'an District,  
Shenzhen, Guandong

FCC Registration No.:230614;

## 1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
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	UCOWS Cow Activity Collector	
Trade Name	UCOWS	
Model Name	ATS-UCOWS001	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a UCOWS Cow Activity Collector	
	Operation Frequency:	2475MHz
	Modulation Type:	QPSK
	Antenna Designation:	PCB antenna
	Antenna Gain(Peak)	3.0 dBi
	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.	
Ratings	DC 3.6V	
Battery	3.6V	

Note:

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

2.

Channel	Frequency (MHz)
01	2475

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB antenna	N/A	3.0	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	Link Mode
Mode 2	CH 01
Mode 3	CH 02
Mode 4	CH 03

For Radiated Emission	
Final Test Mode	Description
Mode 1	Link Mode

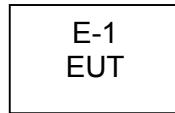
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) EUT battery is fully charged



## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	UCOWS Cow Activity Collector	UCOWS	ATS-UCOWS001	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 『Length』 column.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Equipment list Radiation test & other conducted test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	160400005	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI7	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	6200264416	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3182	150900201	2015.06.07	2016.06.06	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	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Test Cable 10MHz-1GHz	ElectricFever	R-01	1259400	2015.07.06	2016.07.05	1 year
12	Test Cable 1-25GHz	ElectricFever	R-02	1258670	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	2014.08.24	2015.08.23	1 year
3	LISN	Kyoritsu	KNW-407	8-1789-3	2014.08.24	2015.08.23	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	MDS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable 150KHz-30MHz	NTS	C01	01	2015.05.14	2016.05.13	1 year

### **3. ANTENNA REQUIREMENT**

#### **3.1 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.

#### **3.2 EUT ANTENNA**

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

### 3.3 CONDUCTED EMISSION MEASUREMENT

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

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

0.15 -0.5	66 - 56 *	56 - 46 *	LP002.
0.50 -5.0	56.00	46.00	LP002.
5.0 -30.0	60.00	50.00	LP002.

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

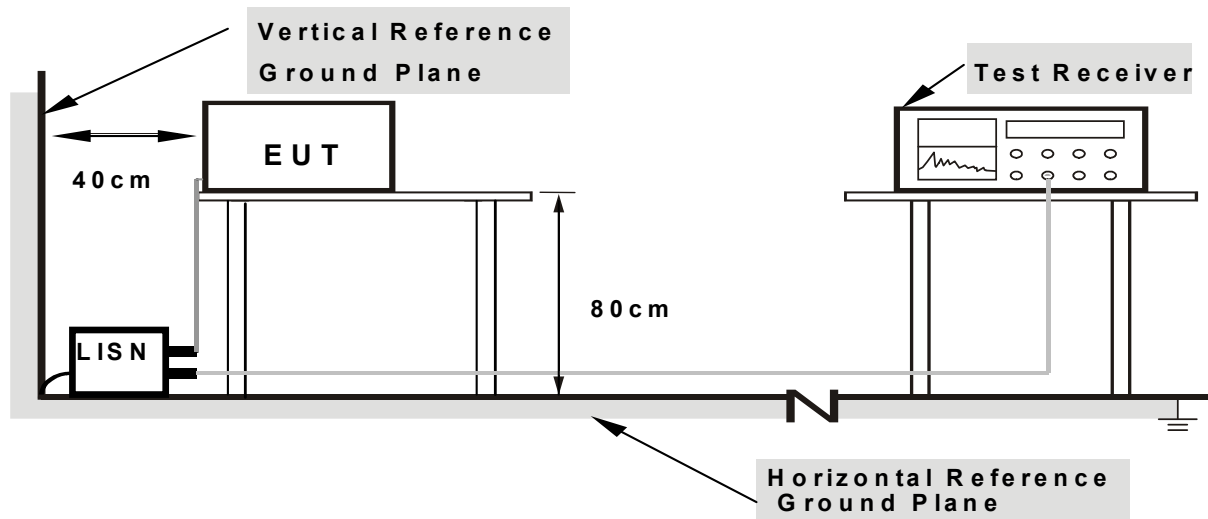
### 3.3.2 TEST PROCEDURE

- 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.

### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.3.4 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 cm from other units and other metal planes

**3.2.5 TEST RESULT**

EUT :	UCOWS Cow Activity Collector	Model Name. :	ATS-UCOWS001
Temperature :	26 °C	Relative Humidity :	N/A
Pressure :	N/A	Phase :	N/A
Test Voltage :	N/A	Test Mode :	N/A

The EUT use battery supply

### 3.4 RADIATED EMISSION MEASUREMENT

#### 3.4.1 Radiated Emission Limits ( FCC 15.209 )

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
Frequency (MHz)	Limit (dBuV)	
30~88	40	3
88~216	43.5	3
216~960	46	3
960 -10000	54.00	3
*902 - 928	94.00	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) \*Note: This is the limit for the fundamental frequency.

#### LIMITS OF RADIATED EMISSION MEASUREMENT ( FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400-2483.5	50	500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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

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



### 3.4.2 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:

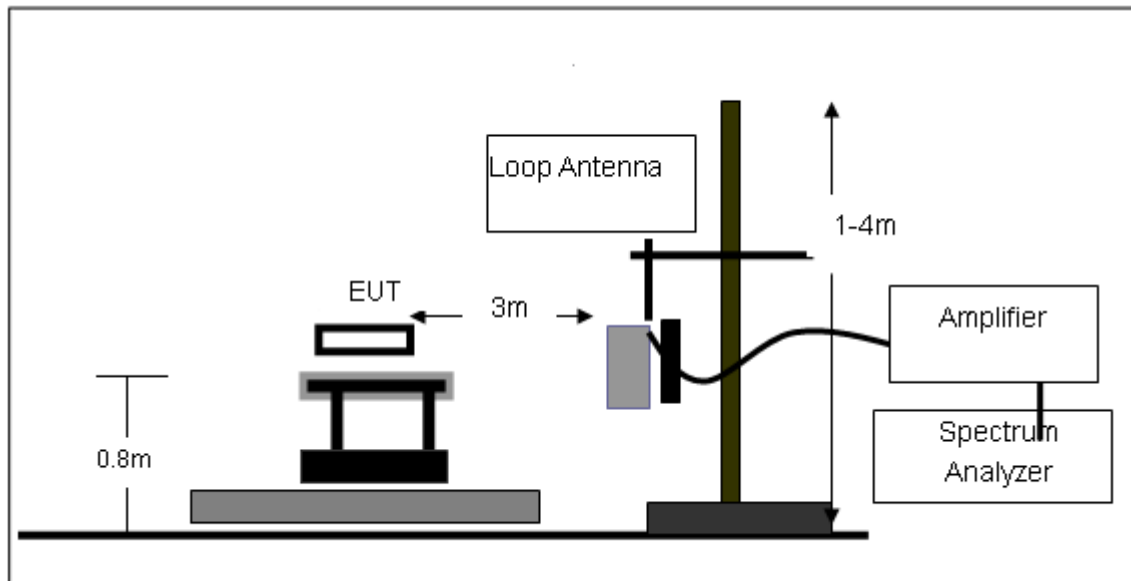
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.4.3 DEVIATION FROM TEST STANDARD

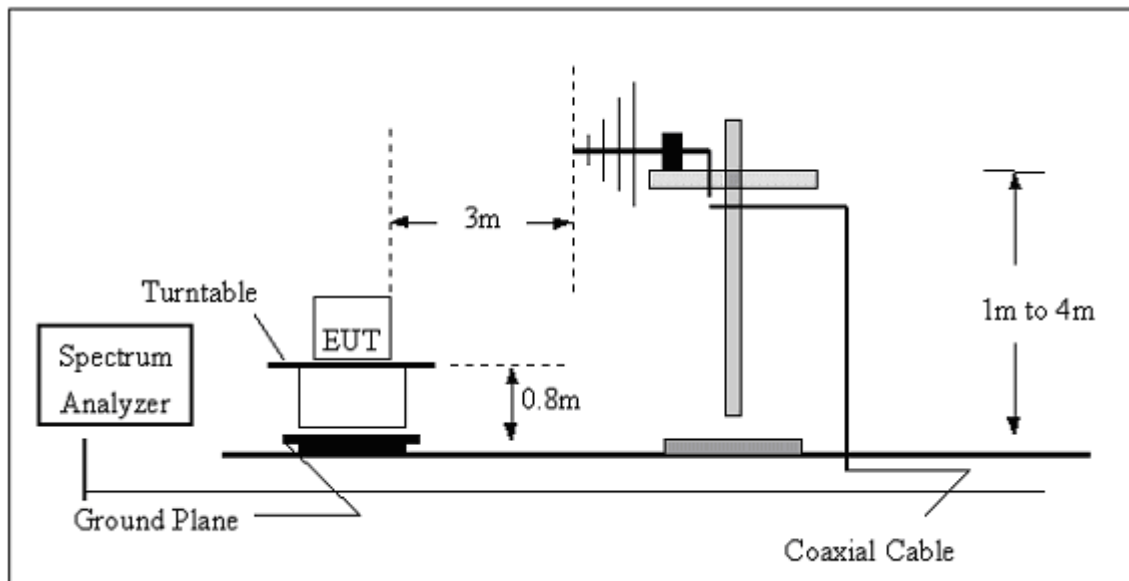
No deviation

### 3.4.4 TEST SETUP

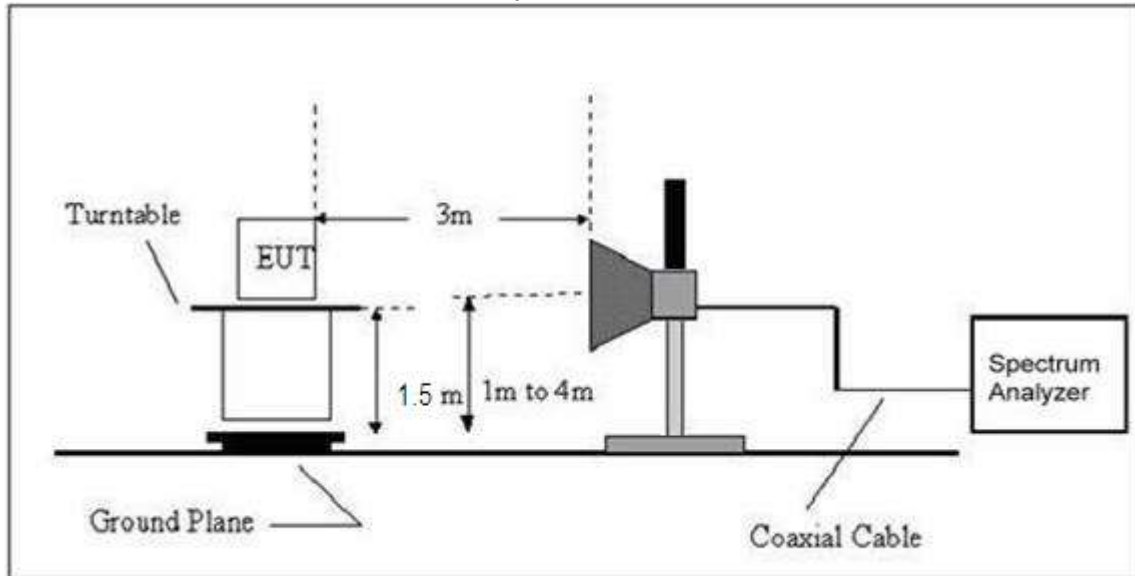
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.4.5 TEST RESULTS (BLOW 30MHz)

EUT :	UCOWS Cow Activity Collector	Model Name. :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	--
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 =  $20 \log (\text{specific distance/test distance})(\text{dB})$ ;

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

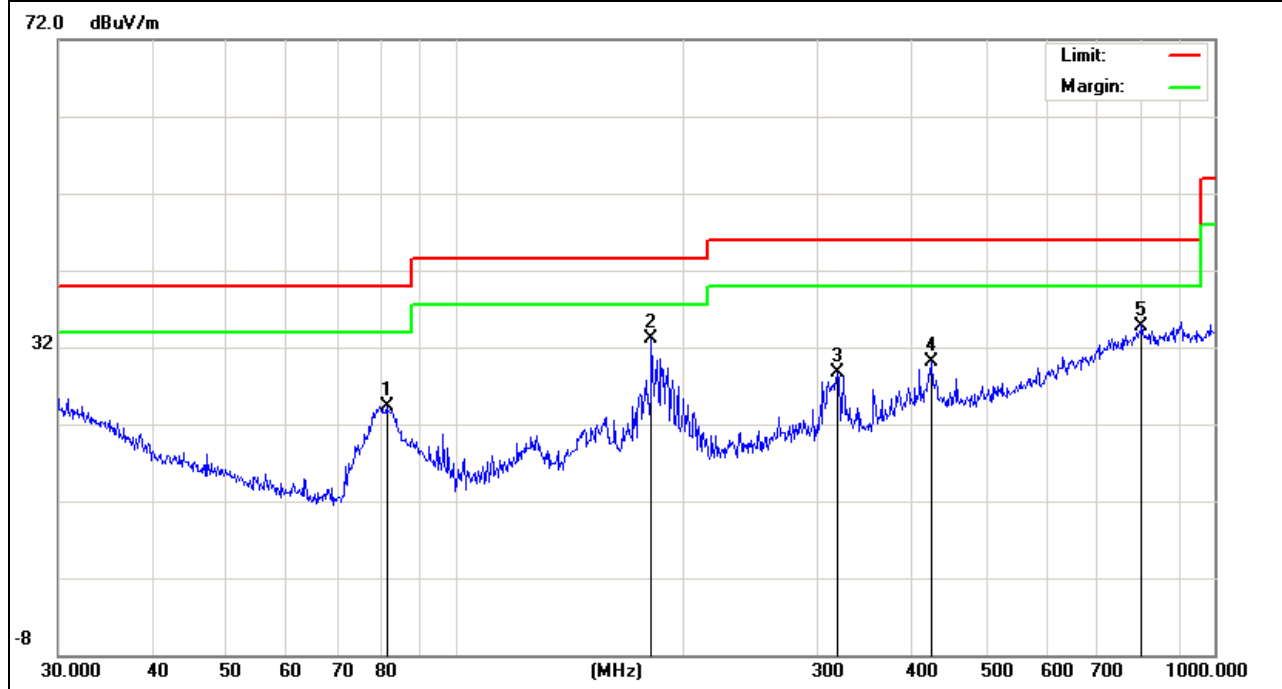
### 3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
81.2117	18.18	6.10	24.28	40.00	-15.72	peak
181.2834	22.51	10.64	33.15	43.50	-10.35	peak
318.8170	13.76	14.94	28.70	46.00	-17.30	peak
423.5403	11.40	18.78	30.18	46.00	-15.82	peak
801.7862	7.40	27.40	34.80	46.00	-11.20	peak

Remark:

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

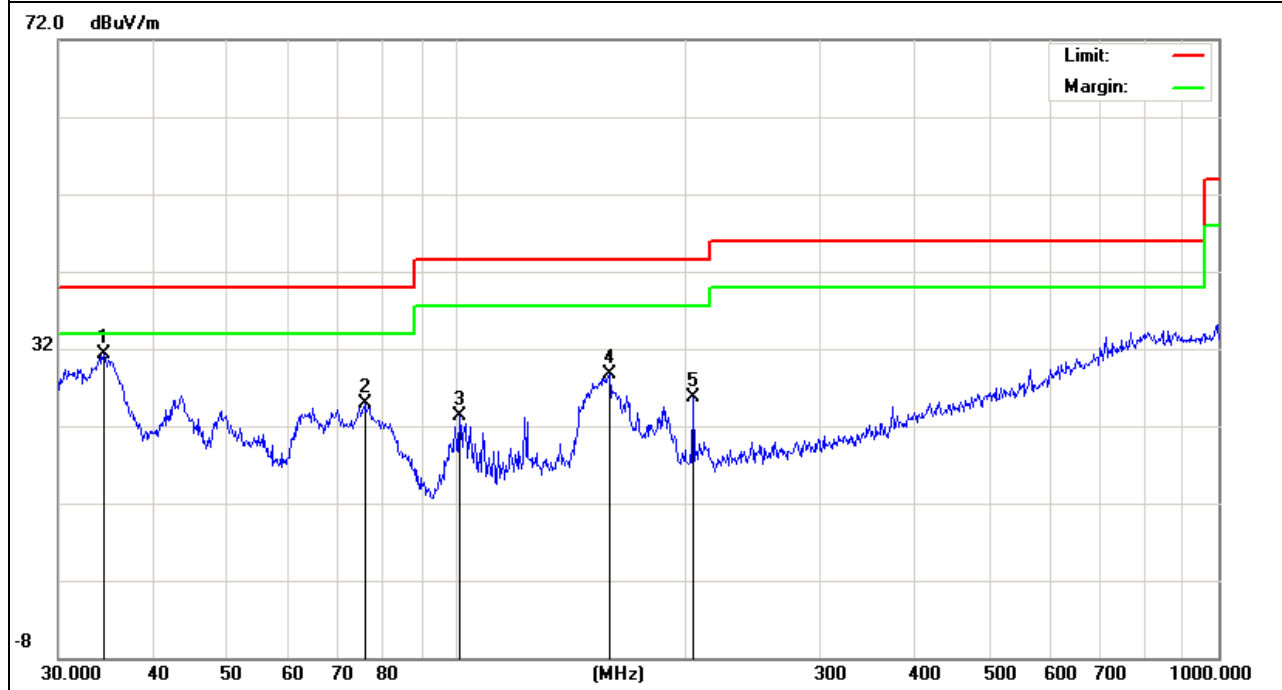


EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
34.3964	14.28	17.02	31.30	40.00	-8.70	peak
75.7112	19.15	5.72	24.87	40.00	-15.13	peak
100.9338	14.24	9.07	23.31	43.50	-20.19	peak
158.6677	18.14	10.47	28.61	43.50	-14.89	peak
204.2375	14.67	11.07	25.74	43.50	-17.76	peak

Remark:

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



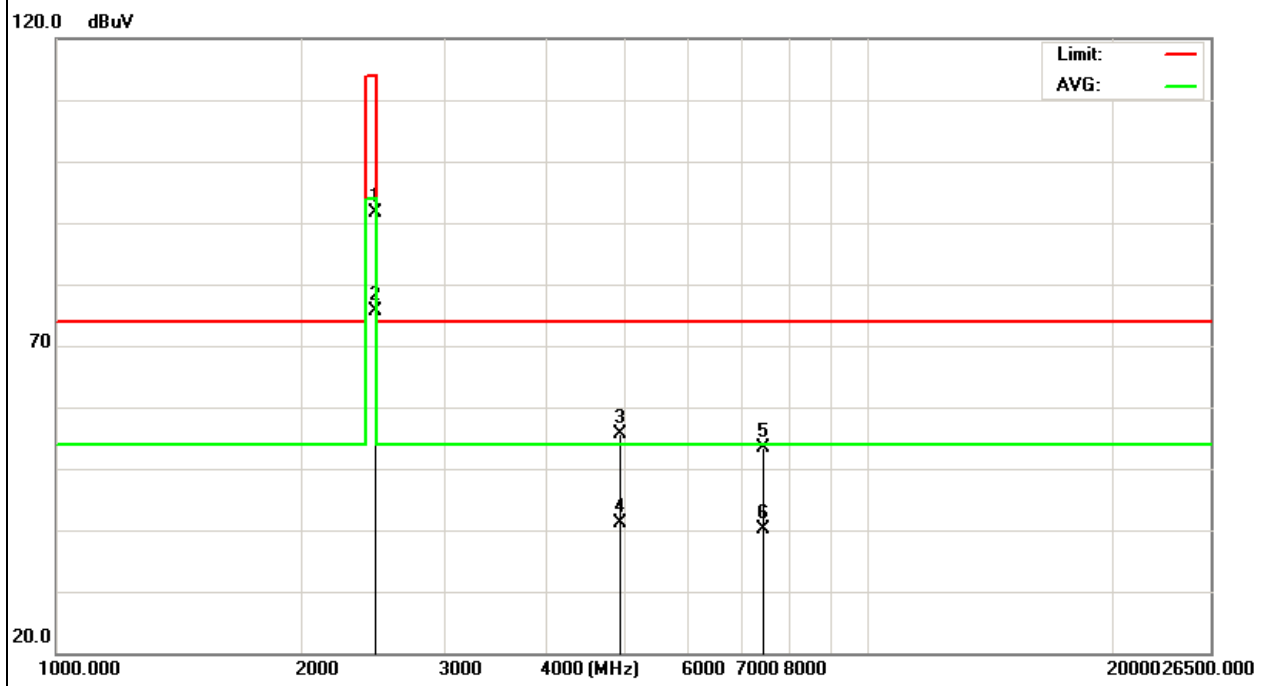
### 3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2475.218	104.33	-12.82	91.51	114.00	-22.49	peak
2475.218	88.56	-12.82	75.74	94.00	-18.26	AVG
4950.338	59.07	-3.53	55.54	74.00	-18.46	peak
4950.338	44.73	-3.53	41.20	54.00	-12.80	AVG
7425.516	54.19	-0.84	53.35	74.00	-20.65	peak
7425.516	41.07	-0.84	40.23	54.00	-13.77	AVG

Remark:

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

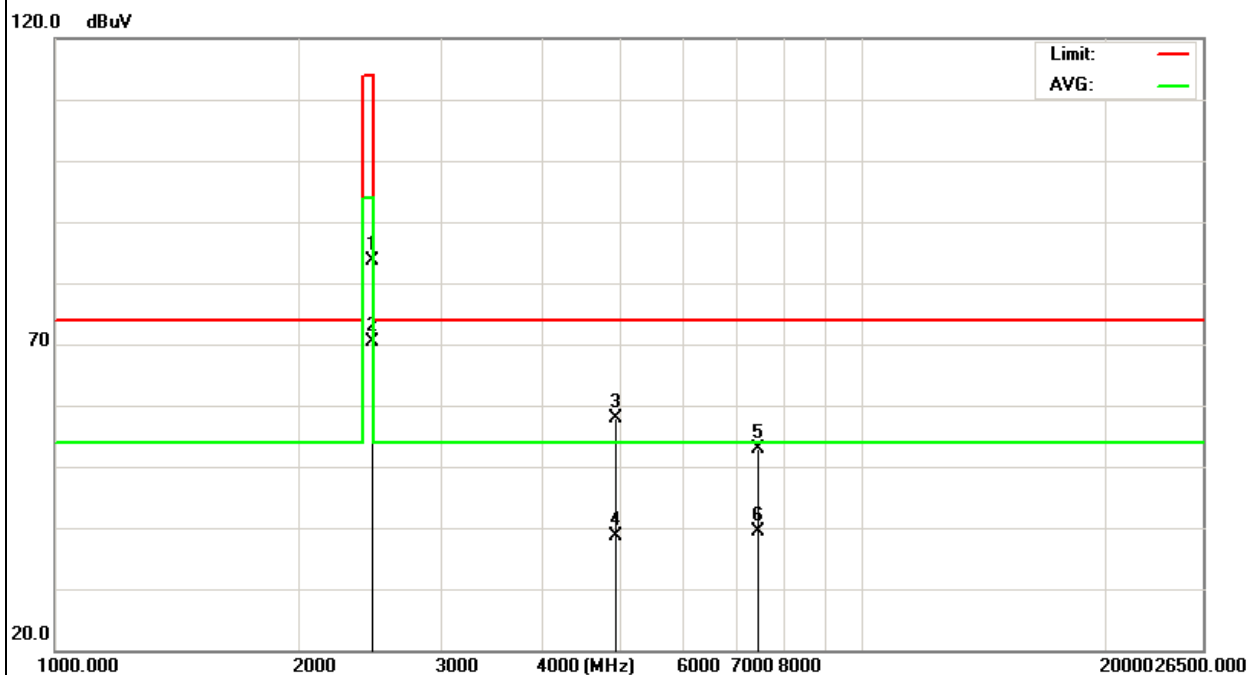


EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2475.220	96.53	-12.82	83.71	114.00	-30.29	peak
2475.220	83.17	-12.82	70.35	94.00	-23.65	AVG
4950.165	61.45	-3.53	57.92	74.00	-16.08	peak
4950.168	42.09	-3.53	38.56	54.00	-15.44	AVG
7425.035	53.76	-0.85	52.91	74.00	-21.09	peak
7425.035	40.19	-0.85	39.34	54.00	-14.66	AVG

Remark:

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



Note: EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(X orientation).



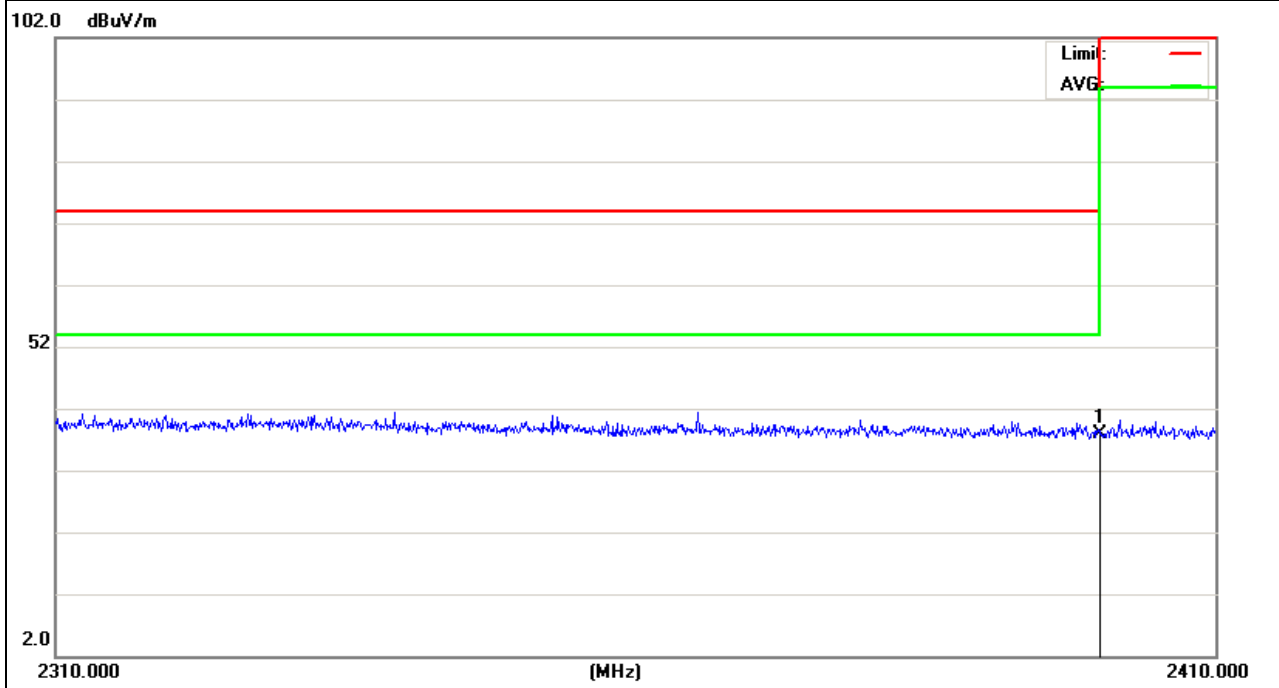
### 3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.000	40.87	-3.11	37.76	74.00	-36.24	peak

Remark:

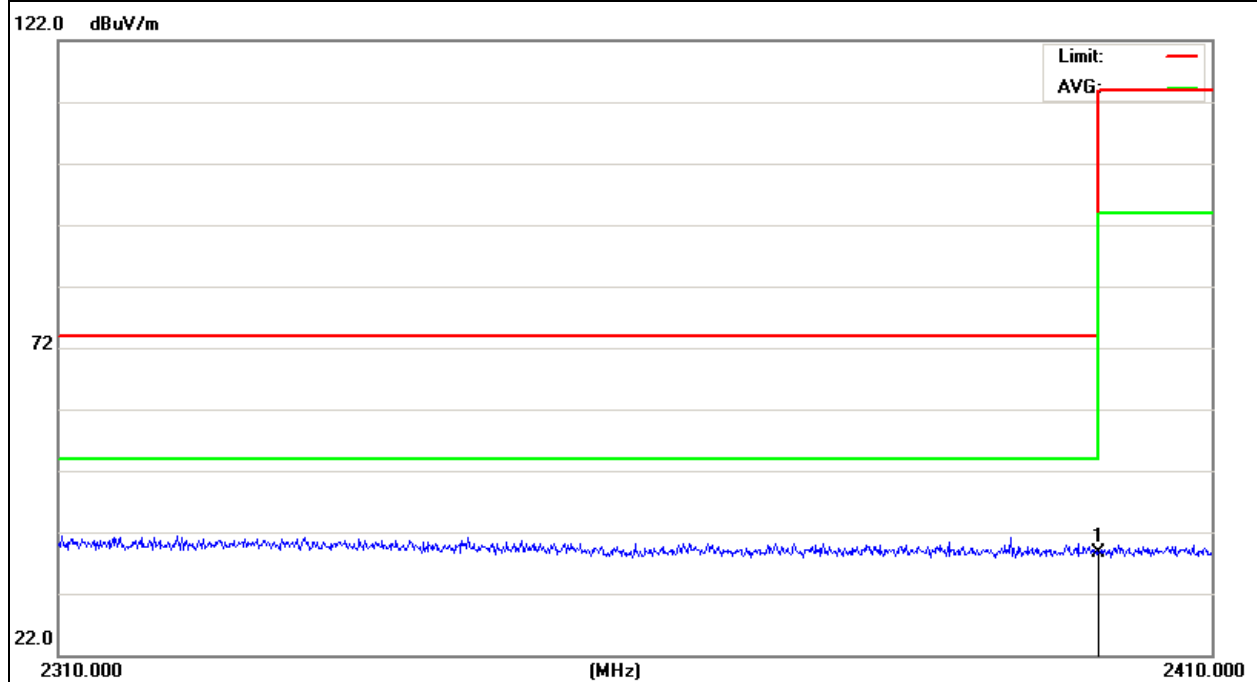
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.000	41.82	-3.11	38.71	74.00	-35.29	peak

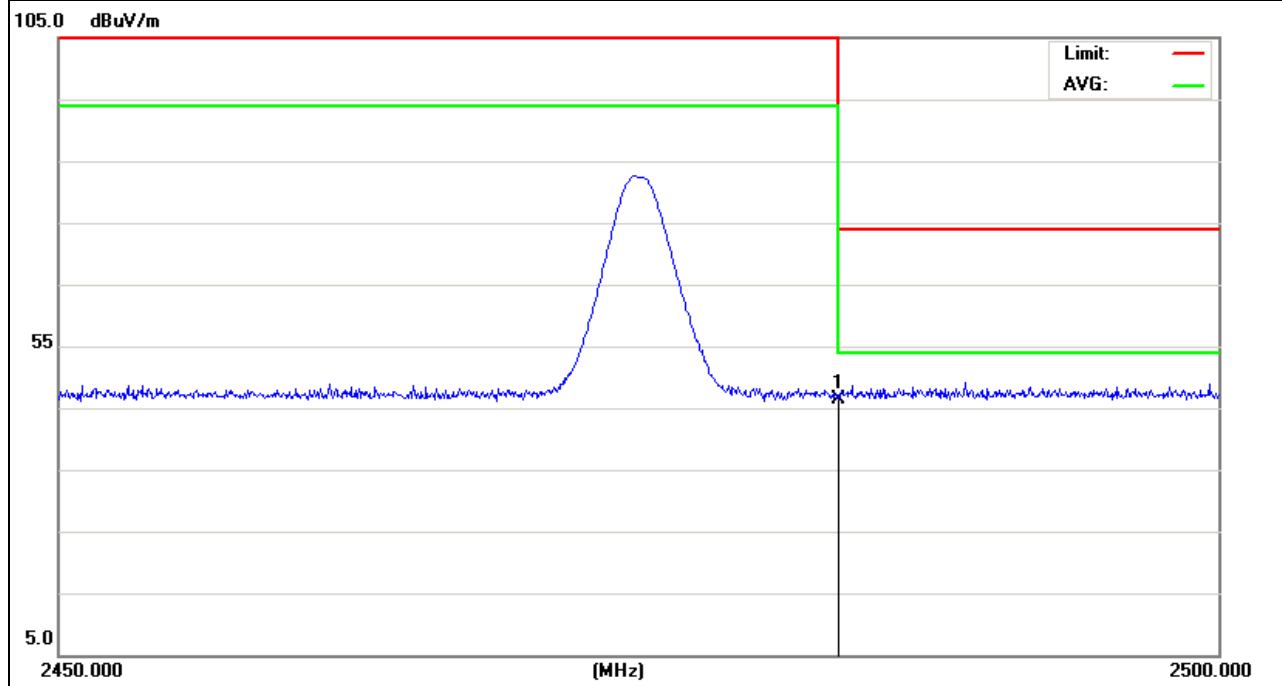
Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	50.06	-3.57	46.49	74.00	-27.51	peak

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

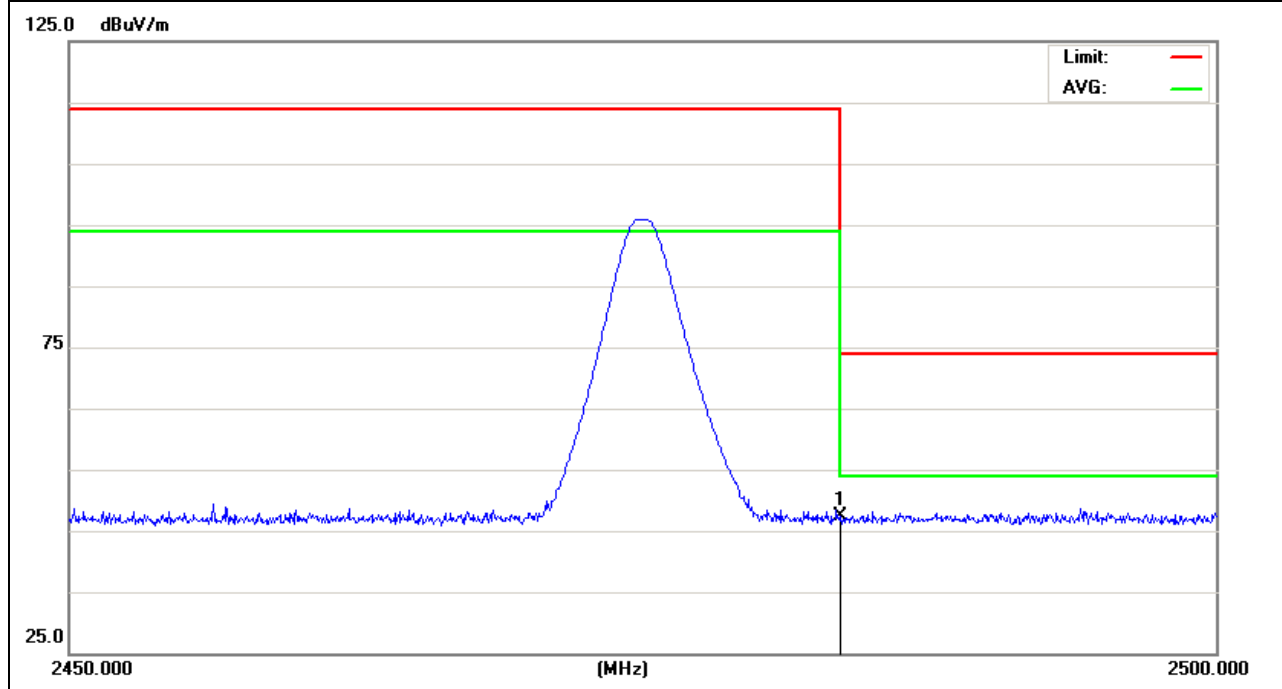


EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	TX-2475MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	51.06	-3.57	47.49	74.00	-26.51	peak

Remark:

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



## 4. BANDWIDTH TEST

### 4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW  $\geq$  RBW, Sweep time = Auto.

### 4.2 DEVIATION FROM STANDARD

No deviation.

### 4.3 TEST SETUP

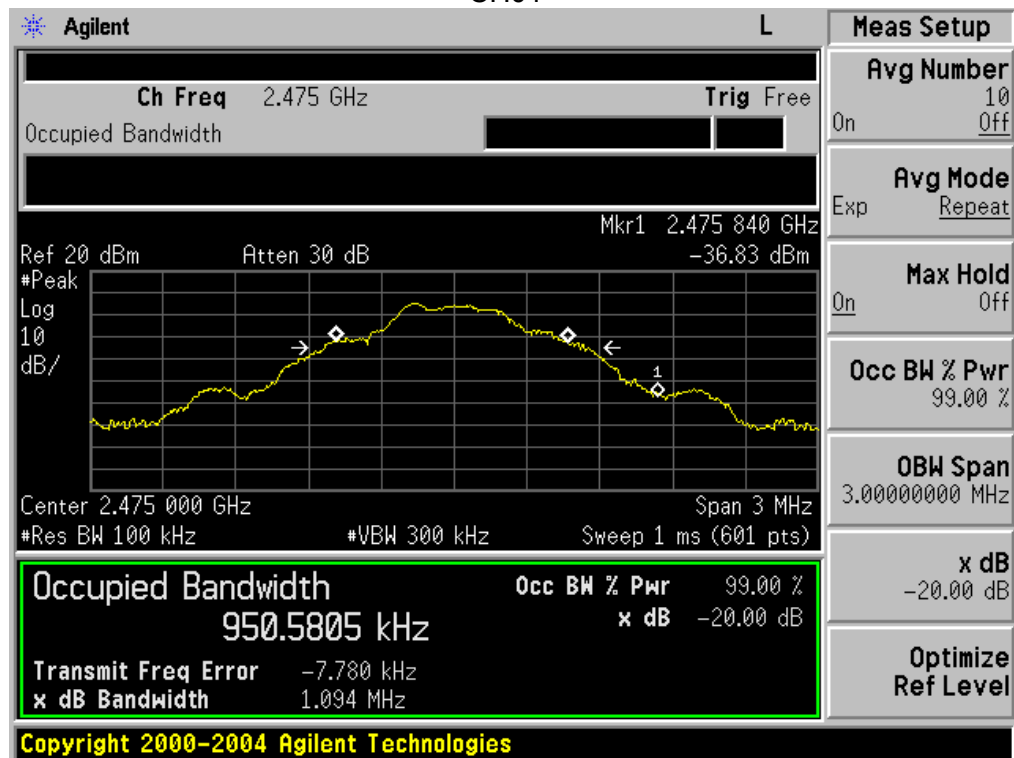


#### 4.4 TEST RESULTS

EUT :	UCOWS Cow Activity Collector	Model Name :	ATS-UCOWS001
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 3.6V
Test Mode :	TX		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)
CH01	2475	1.094

CH01



## 5. EUT TEST PHOTO

### Radiated Measurement Photos

