

FCC EMC Test Report

FCC ID: LNQSBWD700A

Product: ScreenBeam Enterprise Wireless Display
Receiver

Trade Name: Actiontec

Model Number: SBWD700A

Serial Model : N/A

Prepared for

Actiontec Electronics, Inc.

760 North Mary Ave., Sunnyvale, CA 94085 USA

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 : Actiontec Electronics, Inc.
Address : 760 North Mary Ave., Sunnyvale, CA 94085 USA
Manufacturer's Name : Actiontec Electronics, Inc.
Address : 760 North Mary Ave., Sunnyvale, CA 94085 USA

Product description


Product name : ScreenBeam Enterprise Wireless Display Receiver
Model and/or type reference : SBWD700A
FCC Part15B 01 Oct. 2013

Standards : ANSI C63.4:2003
ICES-003 Issue 5 August 2012

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personal only, and shall be noted in the revision of the document.

Date of Test :
Date (s) of performance of tests : 28 Sep. 2014 ~15 Oct. 2014
Date of Issue..... : 15 Oct. 2014
Test Result..... : **Pass**

Testing Engineer : 
(Brews Xu)

Technical Manager : 
(Eileen Liu)


Authorized Signatory : 
(Bill Yao)

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 DESCRIPTION OF TEST SETUP	8
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.5 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	19
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	19
3.2.2 TEST PROCEDURE	19
3.2.3 TEST SETUP	20
3.2.4 EUT OPERATING CONDITIONS	20
3.2.5 TEST RESULTS	21
3.2.6 TEST RESULTS(Above 1GHz)	27
4 . EUT TEST PHOTO	29

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC part15 subpart B, 10-1-2013 ANSI C63.4: 2003	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

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 Number:238937; IC Registration Number:9270A-1

CNAS Registration Number: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 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.6	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.8	
		1GHz ~6GHz	4.5	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	ScreenBeam Enterprise Wireless Display Receiver	
Model Name	SBWD700A	
Additional Model Number(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a ScreenBeam Enterprise Wireless Display Receiver.	
	Operating frequency:	N/A
	Connecting I/O port:	RJ-45, VGA, HDMI, USB
	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.	
Power Source	DC Voltage	
Power Rating	Input: AC 100-240, 50/60Hz, 0.3A Output: DC 5V, 2A, 10W	

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.

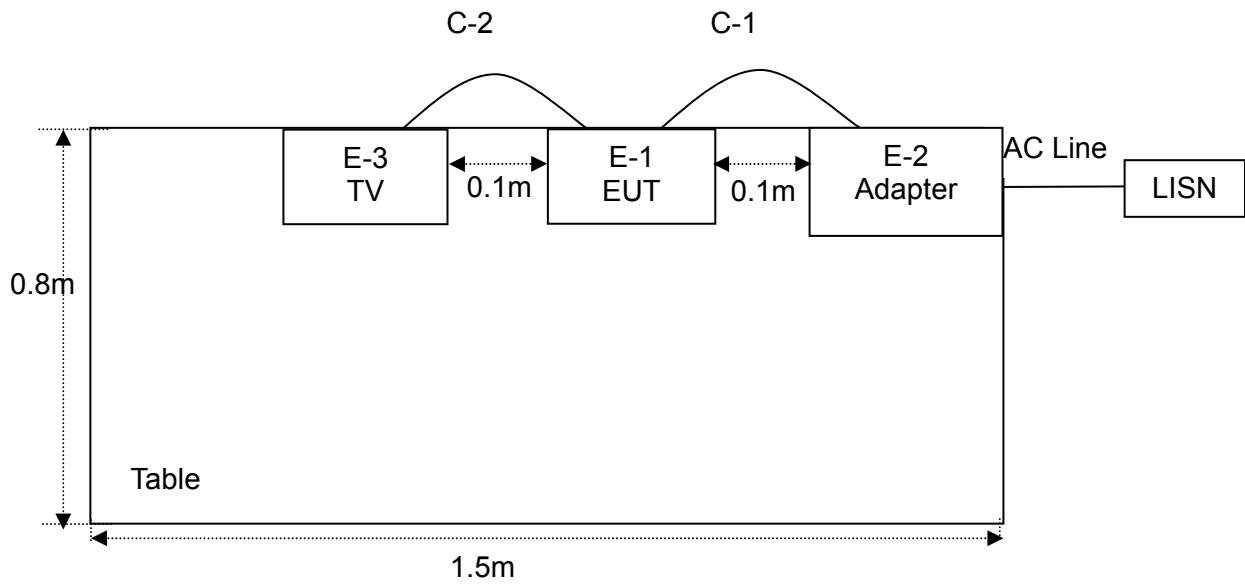
Pretest Mode	Description
Mode 1	WIFI
Mode 2	VGA
Mode 3	NET

For Conducted Test	
Final Test Mode	Description
Mode 1	WIFI
Mode 2	VGA
Mode 3	NET

For Radiated Test	
Final Test Mode	Description
Mode 1	WIFI
Mode 2	VGA
Mode 3	NET

2.3 DESCRIPTION OF TEST SETUP

Mode RE: WIFI



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	ScreenBeam Enterprise Wireless Display Receiver	Actiontec	SBWD700A	ZMHA4370006	EUT
E-2	Adapter	Actiontec	WA-10P05FU	DC6771332100247700	
E-3	TV	SONY	KDL-24EX520	6450730	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	120cm	
C-2	YES	YES	100cm	

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.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101313	Jul. 06, 2014	Jul. 06, 2015	1 year
2	LISN	R&S	ENV216	111315	Jul. 06, 2014	Jul. 06, 2015	1 year
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jun. 16, 2014	Jun. 15, 2015	1 year
4	Test Cable	N/A	C01	N/A	Jun. 16, 2014	Jun. 15, 2015	1 year
5	Test Cable	N/A	C02	N/A	Jun. 16, 2014	Jun. 15, 2015	1 year
6	Test Cable	N/A	C03	N/A	Jun. 16, 2014	Jun. 15, 2015	1 year
7	EMI Test Receiver	R&S	ESCI	101160	Jun. 16, 2014	Jun. 15, 2015	1 year
8	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jun. 18, 2014	Jun. 17, 2015	1 year
9	Absorbing Clamp	R&S	MDS-21	100423	Jun. 16, 2014	Jun. 15, 2015	1 year

2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jun. 16, 2014	Jun. 15, 2015	1 year
2	Test Cable	N/A	R-01	N/A	Jun. 16, 2014	Jun. 15, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Jun. 16, 2014	Jun. 15, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jun. 16, 2014	Jun. 15, 2015	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jun. 16, 2014	Jun. 15, 2015	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jun. 16, 2014	Jun. 15, 2015	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jun. 16, 2014	Jun. 15, 2015	1 year
10	Amplifier	EM	EM-30180	060538	Jun. 16, 2014	Jun. 15, 2015	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	<input type="checkbox"/> Class A (dB μ V)		<input checked="" type="checkbox"/> Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

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

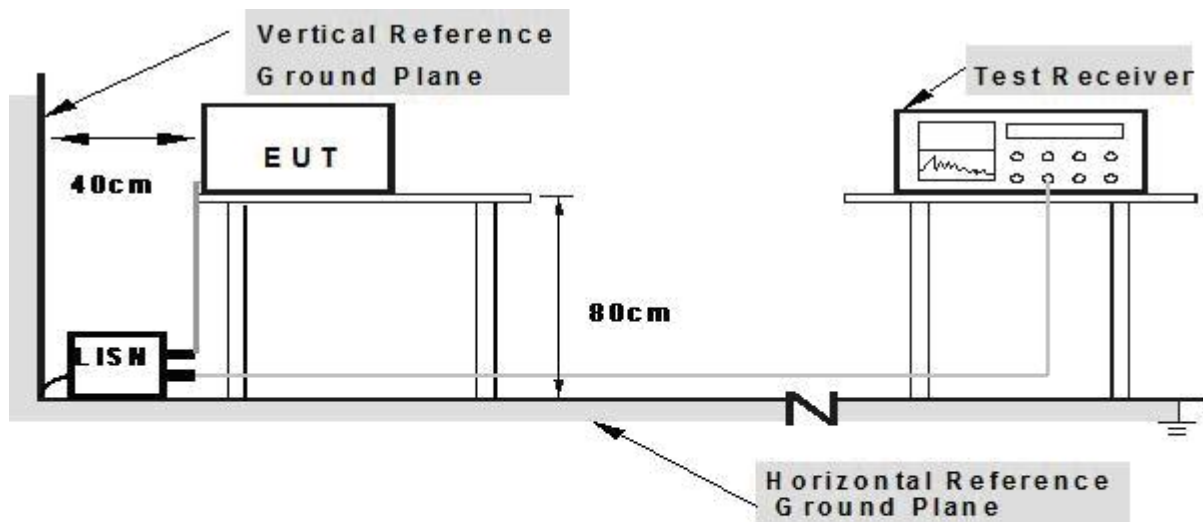
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

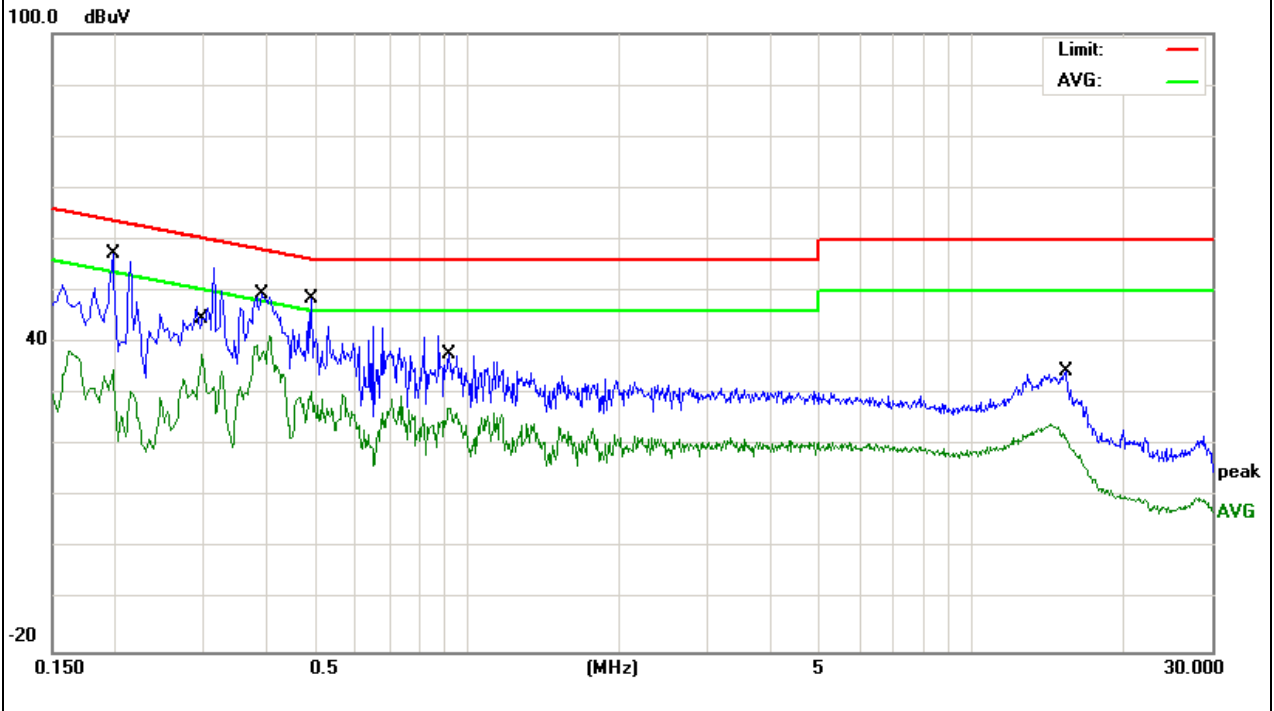
3.1.5 TEST RESULTS

EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Phase:	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.1980	47.78	9.50	57.28	63.69	-6.41	QP
0.1980	25.26	9.50	34.76	53.69	-18.93	AVG
0.2977	44.96	9.50	54.46	60.30	-5.84	QP
0.2977	28.17	9.50	37.67	50.30	-12.63	AVG
0.3899	39.96	9.50	49.46	58.06	-8.60	QP
0.3899	31.78	9.50	41.28	48.06	-6.78	AVG
0.4899	39.17	9.51	48.68	56.17	-7.49	QP
0.4899	20.92	9.51	30.43	46.17	-15.74	AVG
0.9220	31.83	9.53	41.36	56.00	-14.64	QP
0.9220	17.86	9.53	27.39	46.00	-18.61	AVG
15.4699	24.67	9.88	34.55	60.00	-25.45	QP
15.4699	14.18	9.88	24.06	50.00	-25.94	AVG

Remark:

Factor = Insertion Loss + Cable Loss.

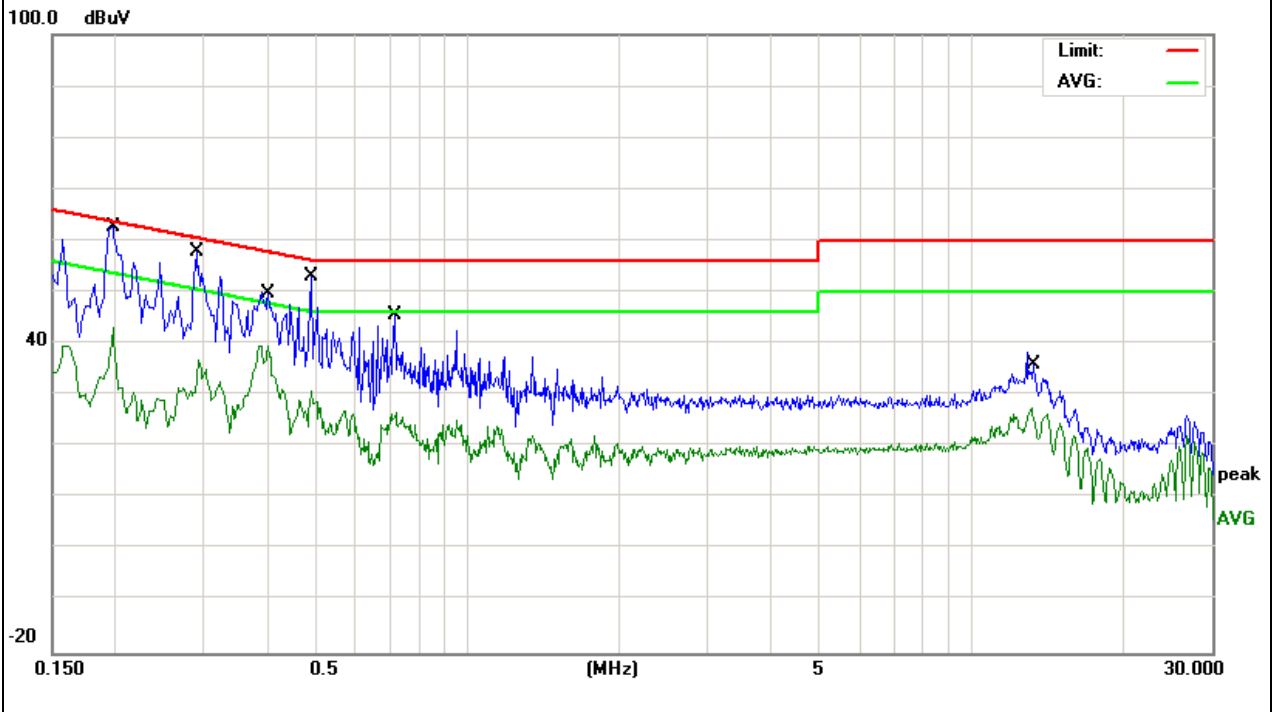


EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Phase:	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.1980	50.06	9.50	59.56	63.69	-4.13	QP
0.1980	33.52	9.50	43.02	53.69	-10.67	AVG
0.2900	44.10	9.50	53.60	60.52	-6.92	QP
0.2900	28.48	9.50	37.98	50.52	-12.54	AVG
0.4020	40.56	9.50	50.06	57.81	-7.75	QP
0.4020	30.14	9.50	39.64	47.81	-8.17	AVG
0.4899	40.62	9.51	50.13	56.17	-6.04	QP
0.4899	21.48	9.51	30.99	46.17	-15.18	AVG
0.7177	36.04	9.53	45.57	56.00	-10.43	QP
0.7177	17.09	9.53	26.62	46.00	-19.38	AVG
13.1819	28.63	9.80	38.43	60.00	-21.57	QP
13.1819	17.62	9.80	27.42	50.00	-22.58	AVG

Remark:

Factor = Insertion Loss + Cable Loss.

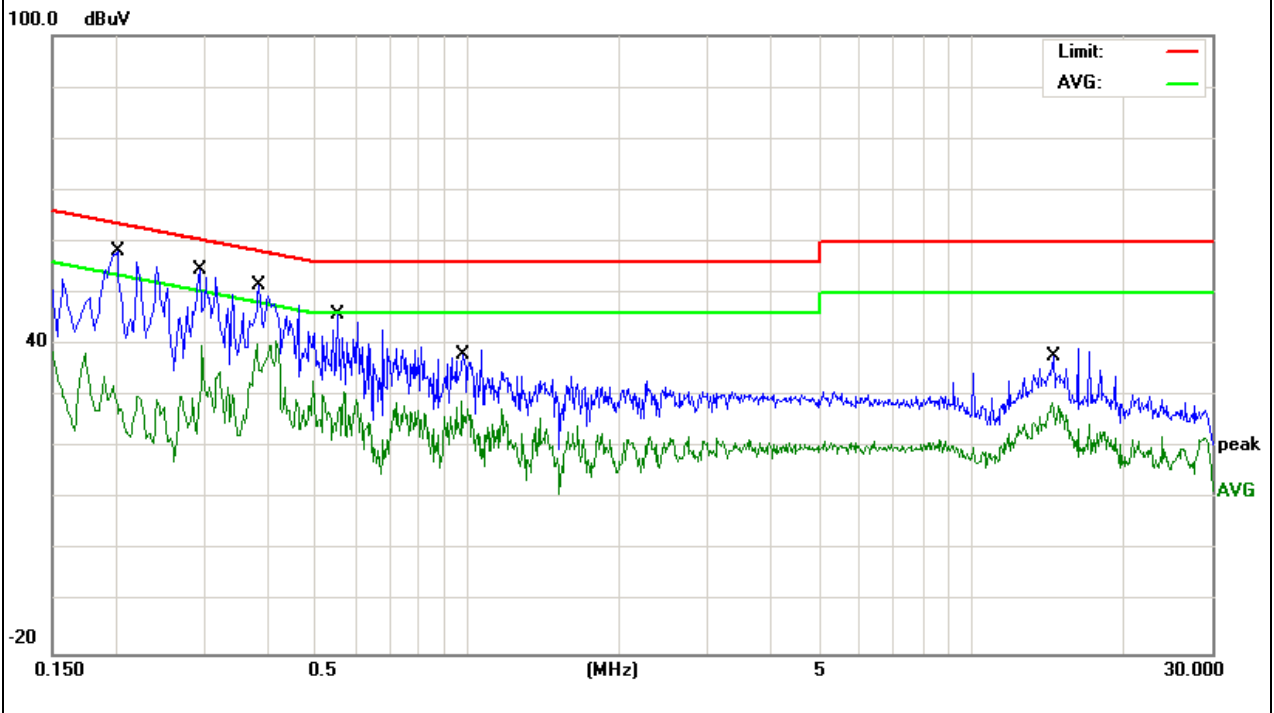


EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	VGA	Phase:	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.2020	48.57	9.49	58.06	63.52	-5.46	QP
0.2020	22.49	9.49	31.98	53.52	-21.54	AVG
0.2977	45.10	9.50	54.60	60.30	-5.70	QP
0.2977	30.32	9.50	39.82	50.30	-10.48	AVG
0.3860	41.90	9.50	51.40	58.15	-6.75	QP
0.3860	30.59	9.50	40.09	48.15	-8.06	AVG
0.5540	36.23	9.51	45.74	56.00	-10.26	QP
0.5540	21.21	9.51	30.72	46.00	-15.28	AVG
0.9818	28.65	9.53	38.18	56.00	-17.82	QP
0.9818	19.61	9.53	29.14	46.00	-16.86	AVG
14.5815	27.82	9.83	37.65	60.00	-22.35	QP
14.5815	18.99	9.83	28.82	50.00	-21.18	AVG

Remark:

Factor = Insertion Loss + Cable Loss.

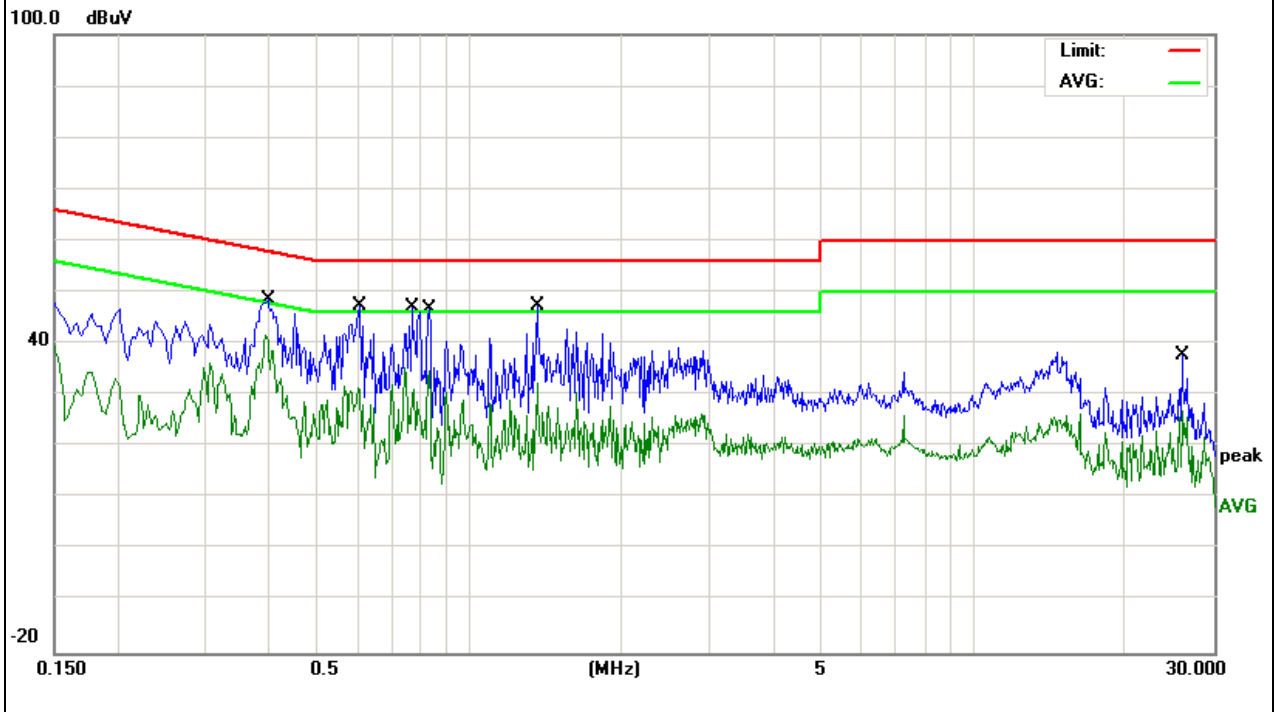


EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	VGA	Phase:	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.3980	39.12	9.50	48.62	57.89	-9.27	QP
0.3980	32.27	9.50	41.77	47.89	-6.12	AVG
0.6058	37.69	9.52	47.21	56.00	-8.79	QP
0.6058	22.28	9.52	31.80	46.00	-14.20	AVG
0.7700	37.63	9.53	47.16	56.00	-8.84	QP
0.7700	25.74	9.53	35.27	46.00	-10.73	AVG
0.8337	37.30	9.53	46.83	56.00	-9.17	QP
0.8337	25.19	9.53	34.72	46.00	-11.28	AVG
1.3660	37.76	9.54	47.30	56.00	-8.70	QP
1.3660	22.93	9.54	32.47	46.00	-13.53	AVG
25.8819	27.50	10.16	37.66	60.00	-22.34	QP
25.8819	15.52	10.16	25.68	50.00	-24.32	AVG

Remark:

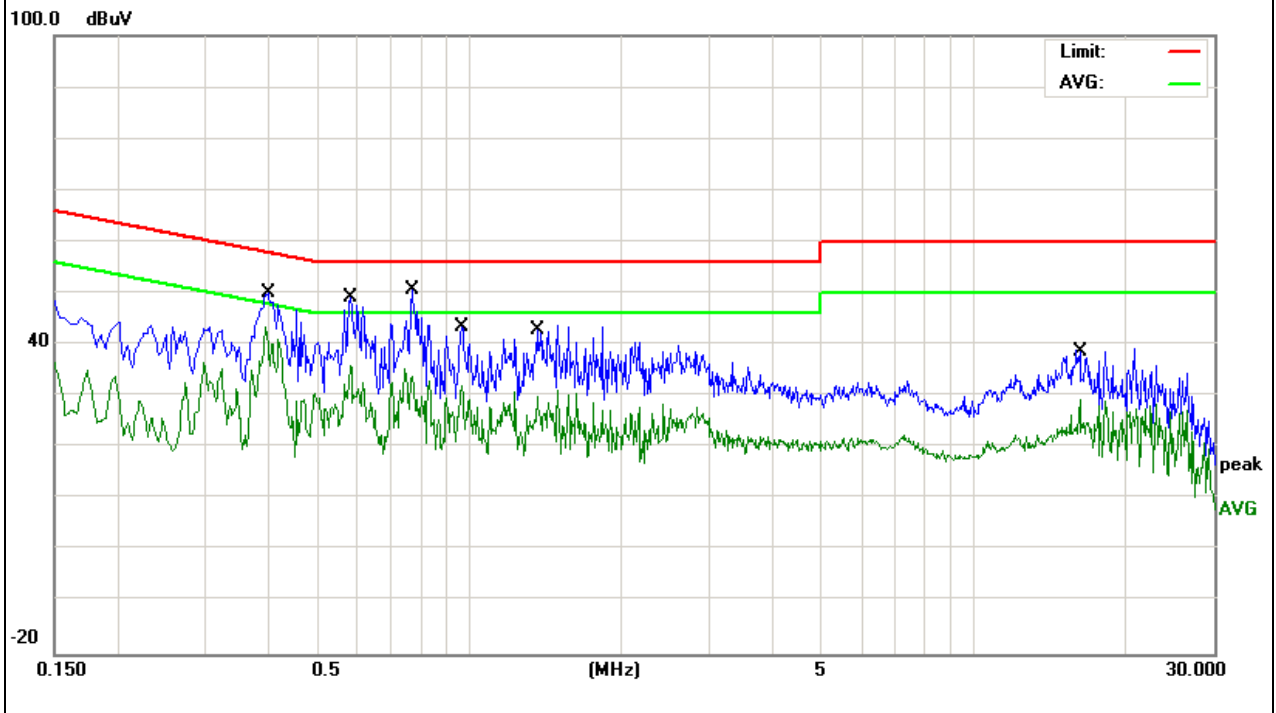
Factor = Insertion Loss + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	NET	Phase:	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.3980	40.42	9.50	49.92	57.89	-7.97	QP
0.3980	33.87	9.50	43.37	47.89	-4.52	AVG
0.5820	39.67	9.51	49.18	56.00	-6.82	QP
0.5820	26.58	9.51	36.09	46.00	-9.91	AVG
0.7700	41.02	9.53	50.55	56.00	-5.45	QP
0.7700	25.78	9.53	35.31	46.00	-10.69	AVG
0.9660	33.99	9.53	43.52	56.00	-12.48	QP
0.9660	22.66	9.53	32.19	46.00	-13.81	AVG
1.3660	33.45	9.54	42.99	56.00	-13.01	QP
1.3660	20.53	9.54	30.07	46.00	-15.93	AVG
16.2299	28.77	9.95	38.72	60.00	-21.28	QP
16.2299	19.49	9.95	29.44	50.00	-20.56	AVG

Remark:
Factor = Insertion Loss + Cable Loss.

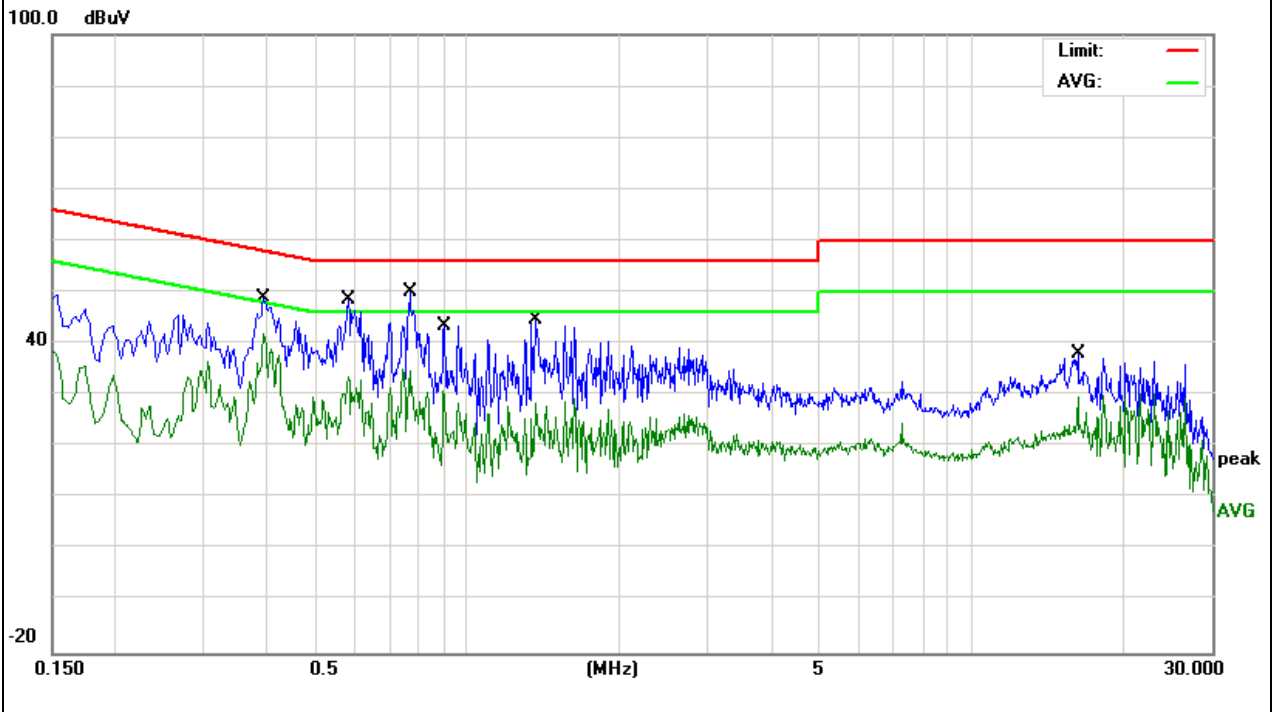


EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name. :	SBWD700A
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	NET	Phase:	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV)	Factor (dB)	Measurement (dBμV)	Limit (dBμV)	Over (dB)	Detector
0.3940	39.31	9.50	48.81	57.98	-9.17	QP
0.3940	32.43	9.50	41.93	47.98	-6.05	AVG
0.5820	39.14	9.51	48.65	56.00	-7.35	QP
0.5820	24.01	9.51	33.52	46.00	-12.48	AVG
0.7700	40.67	9.53	50.20	56.00	-5.80	QP
0.7700	25.64	9.53	35.17	46.00	-10.83	AVG
0.9020	33.90	9.53	43.43	56.00	-12.57	QP
0.9020	21.46	9.53	30.99	46.00	-15.01	AVG
1.3660	34.97	9.54	44.51	56.00	-11.49	QP
1.3660	18.92	9.54	28.46	46.00	-17.54	AVG
16.2299	27.97	9.95	37.92	60.00	-22.08	QP
16.2299	19.78	9.95	29.73	50.00	-20.27	AVG

Remark:

Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	<input type="checkbox"/> Class A (at 3m)	<input checked="" type="checkbox"/> Class B (at 3m)
	dBµV/m	
30 ~ 88	49.0	40.0
88 ~ 216	53.5	43.5
216 ~ 960	56.5	46.0
Above 960	59.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBµV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

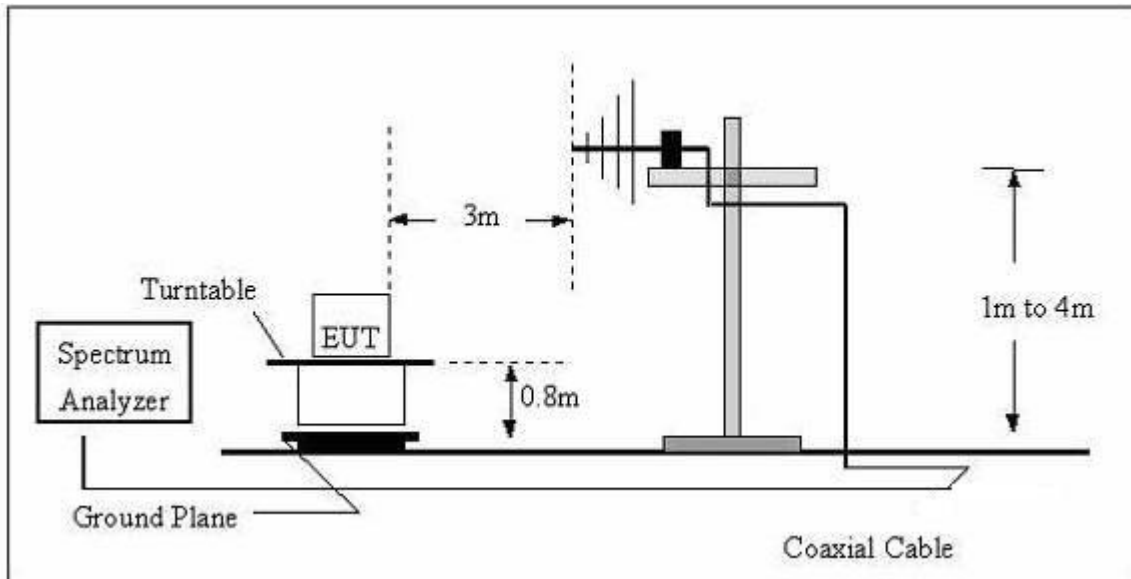
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 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, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

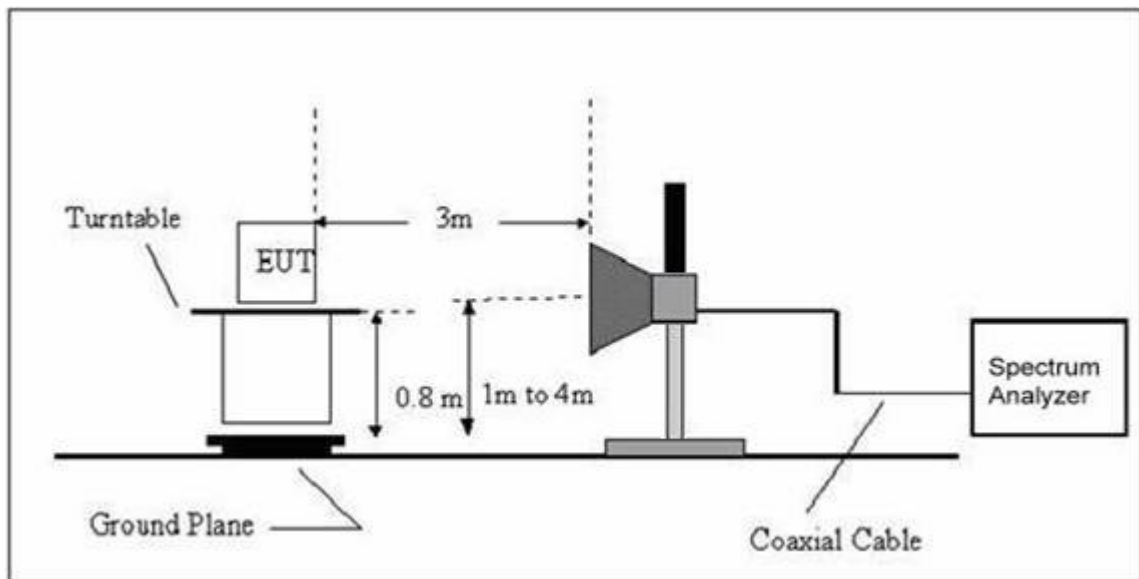
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

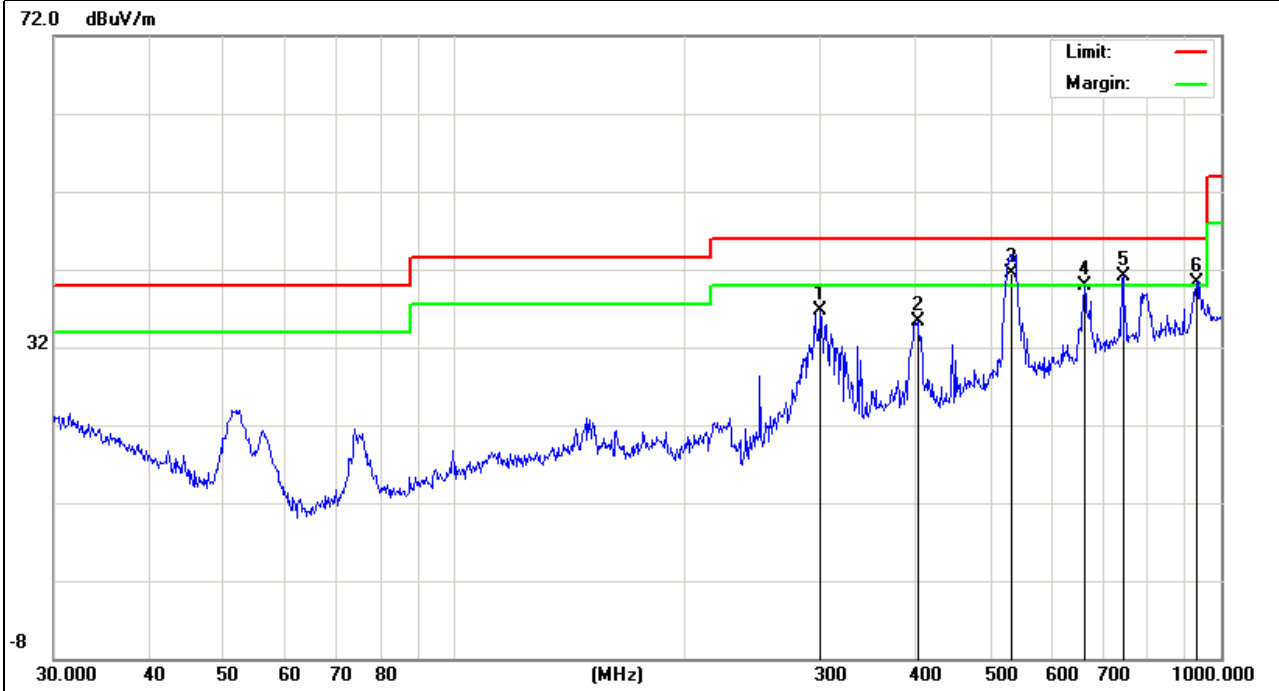
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 TEST RESULTS

EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Polarization:	Horizontal
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBµV/m)	Factor (dB)	Measurement (dBµV/m)	Limit (dBµV/m)	Over (dB)	Detector
300.3672	21.98	14.75	36.73	46.00	-9.27	QP
401.8385	17.00	18.33	35.33	46.00	-10.67	QP
531.9635	20.21	21.39	41.60	46.00	-4.40	QP
663.4729	16.18	23.71	39.89	46.00	-6.11	QP
744.8661	14.70	26.43	41.13	46.00	-4.87	QP
929.0082	11.25	29.14	40.39	46.00	-5.61	QP

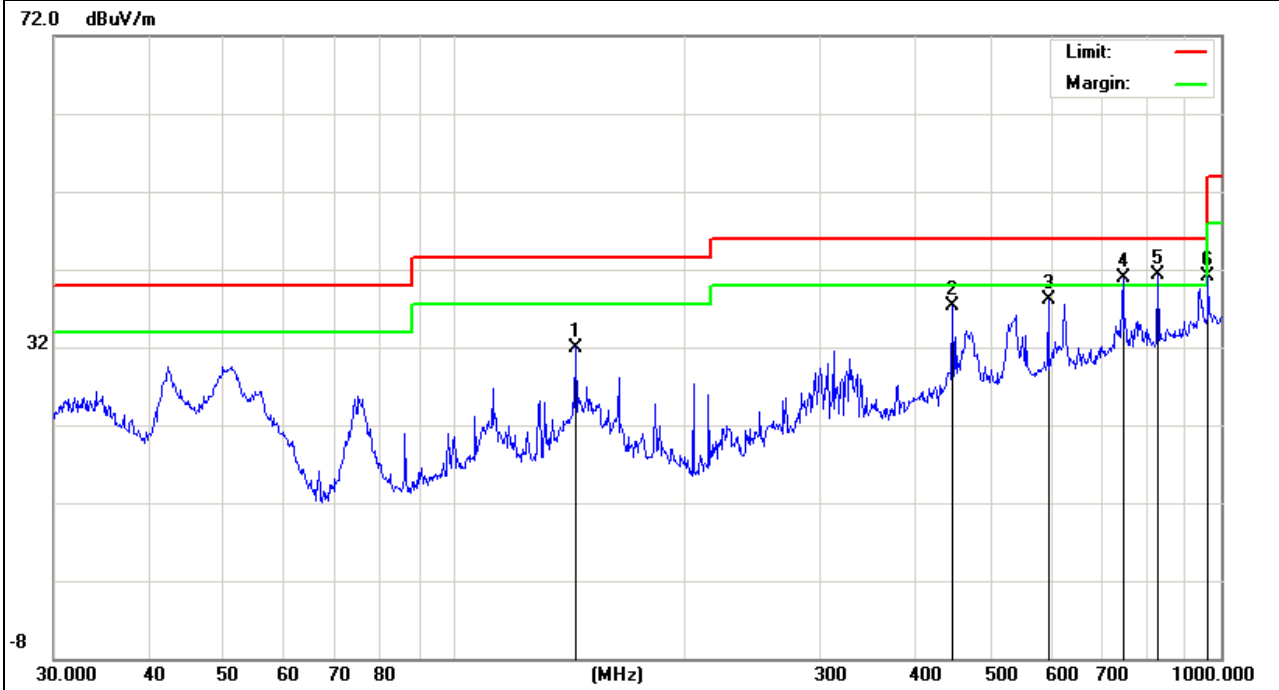
Remark:
Factor = Antenna Factor + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Polarization:	Vertical
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV/m)	Factor (dB)	Measurement (dBμV/m)	Limit (dBμV/m)	Over (dB)	Detector
143.8295	19.94	12.06	32.00	43.50	-11.50	QP
446.4141	18.16	19.18	37.34	46.00	-8.66	QP
595.1329	15.51	22.60	38.11	46.00	-7.89	QP
744.8661	14.52	26.43	40.95	46.00	-5.05	QP
827.4934	14.20	27.06	41.26	46.00	-4.74	QP
962.1623	11.33	29.87	41.20	54.00	-12.80	QP

Remark:
Factor = Antenna Factor + Cable Loss.

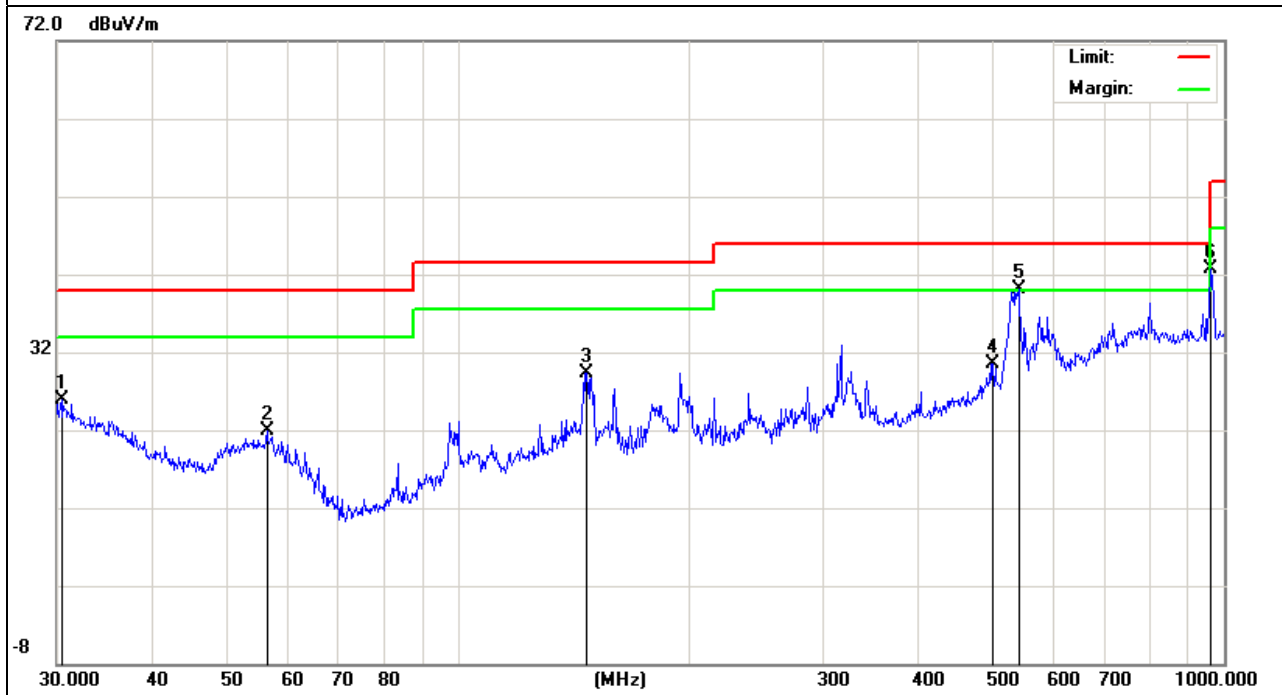


EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	VGA	Polarization:	Horizontal
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBµV/m)	Factor (dB)	Measurement (dBµV/m)	Limit (dBµV/m)	Over (dB)	Detector
30.4238	6.71	19.19	25.90	40.00	-14.10	QP
56.3948	13.04	8.87	21.91	40.00	-18.09	QP
147.4036	18.70	10.67	29.37	43.50	-14.13	QP
499.4247	10.24	20.28	30.52	46.00	-15.48	QP
539.4775	19.02	21.11	40.13	46.00	-5.87	QP
962.1623	15.36	27.38	42.74	54.00	-11.26	QP

Remark:

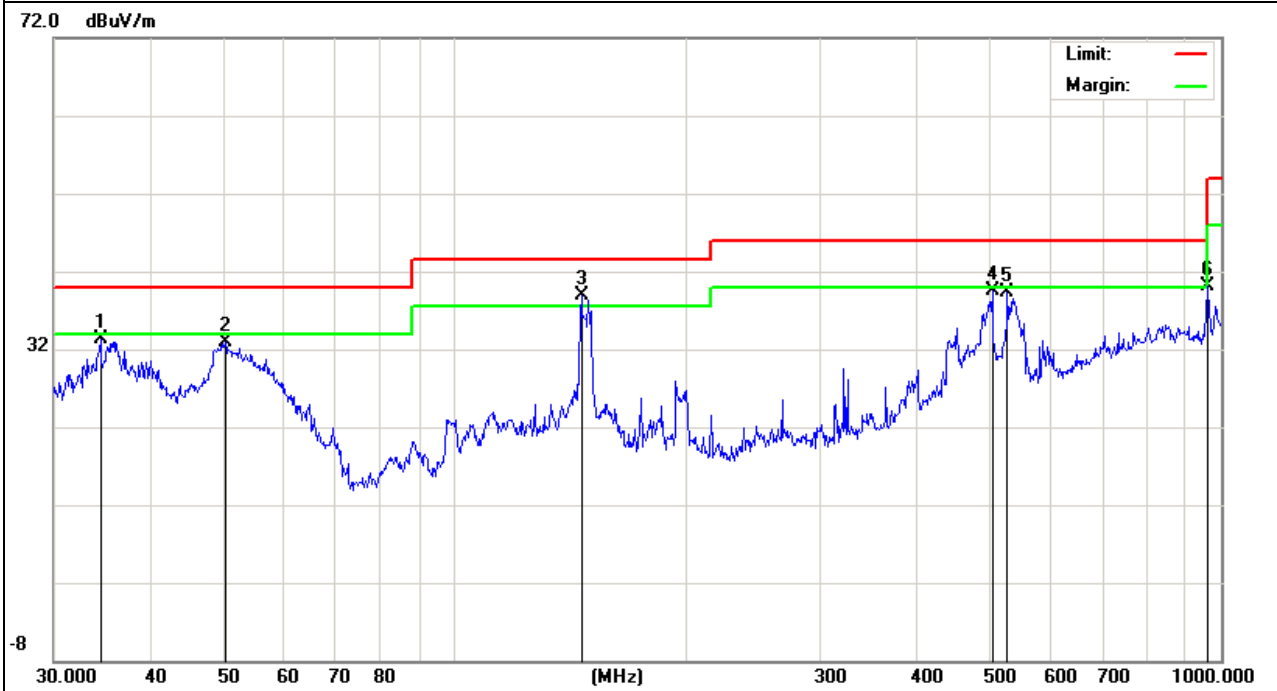
Factor = Antenna Factor + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	VGA	Polarization:	Vertical
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBµV/m)	Factor (dB)	Measurement (dBµV/m)	Limit (dBµV/m)	Over (dB)	Detector
34.5173	16.40	16.96	33.36	40.00	-6.64	QP
50.2324	22.20	10.62	32.82	40.00	-7.18	QP
146.3735	28.16	10.78	38.94	43.50	-4.56	QP
502.9395	19.14	20.35	39.49	46.00	-6.51	QP
526.3967	18.53	20.84	39.37	46.00	-6.63	QP
958.7943	12.79	27.36	40.15	46.00	-5.85	QP

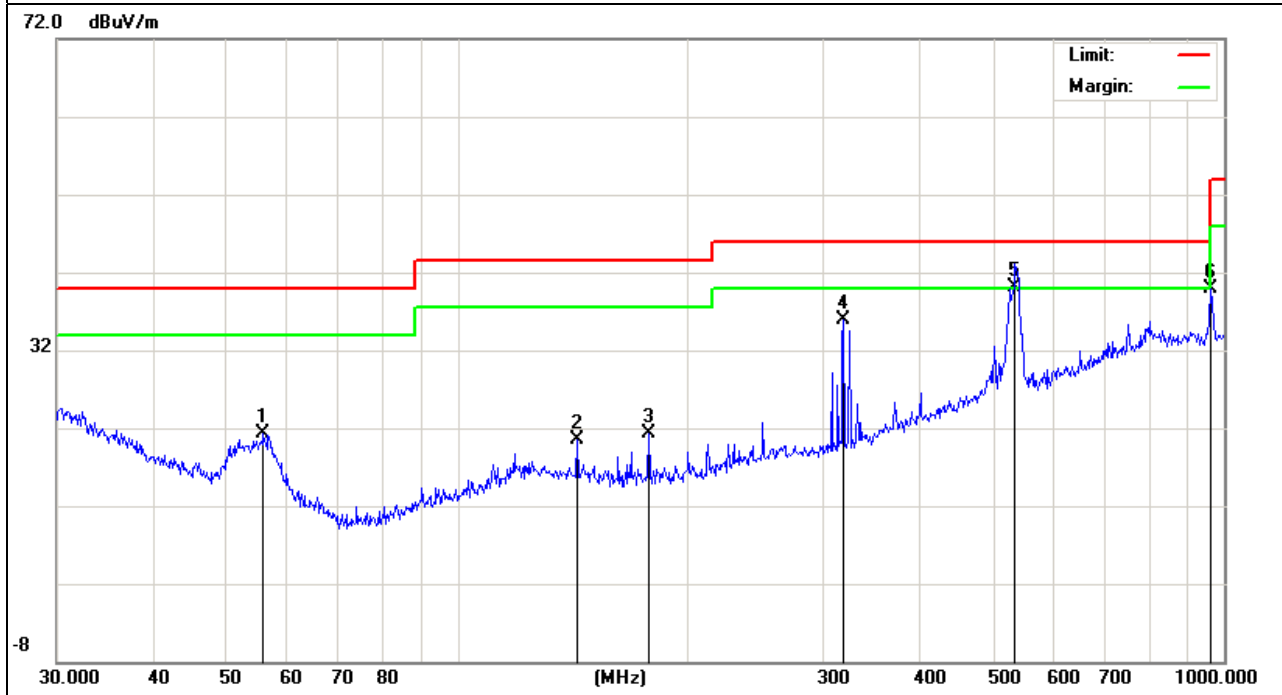
Remark:
Factor = Antenna Factor + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	NET	Polarization:	Horizontal
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBµV/m)	Factor (dB)	Measurement (dBµV/m)	Limit (dBµV/m)	Over (dB)	Detector
55.8047	12.19	9.03	21.22	40.00	-18.78	QP
143.3260	9.39	11.07	20.46	43.50	-23.04	QP
177.5092	10.75	10.61	21.36	43.50	-22.14	QP
318.8170	20.97	14.94	35.91	46.00	-10.09	QP
533.8321	19.20	21.00	40.20	46.00	-5.80	QP
958.7943	12.58	27.36	39.94	46.00	-6.06	QP

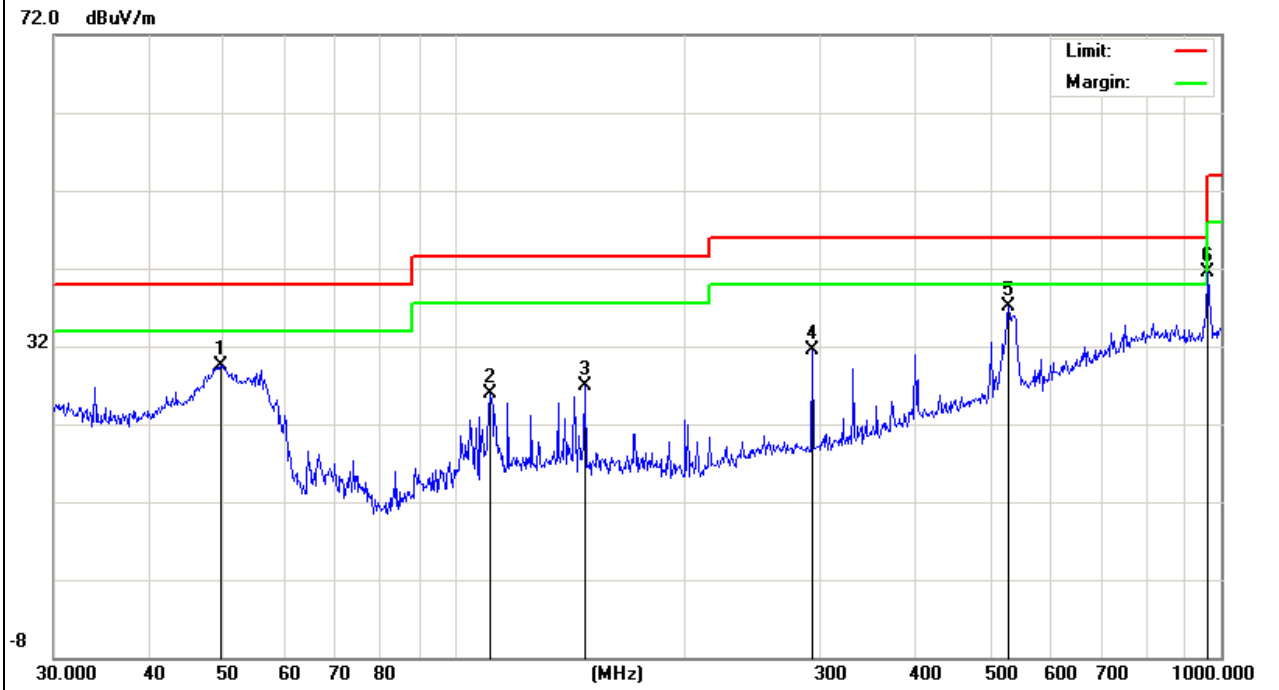
Remark:
Factor = Antenna Factor + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	NET	Polarization:	Vertical
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV/m)	Factor (dB)	Measurement (dBμV/m)	Limit (dBμV/m)	Over (dB)	Detector
49.5328	18.64	10.81	29.45	40.00	-10.55	QP
111.3468	15.69	10.24	25.93	43.50	-17.57	QP
147.9214	16.28	10.63	26.91	43.50	-16.59	QP
293.0842	17.36	14.08	31.44	46.00	-14.56	QP
528.2458	16.20	20.88	37.08	46.00	-8.92	QP
962.1623	14.06	27.38	41.44	54.00	-12.56	QP

Remark:
Factor = Antenna Factor + Cable Loss.



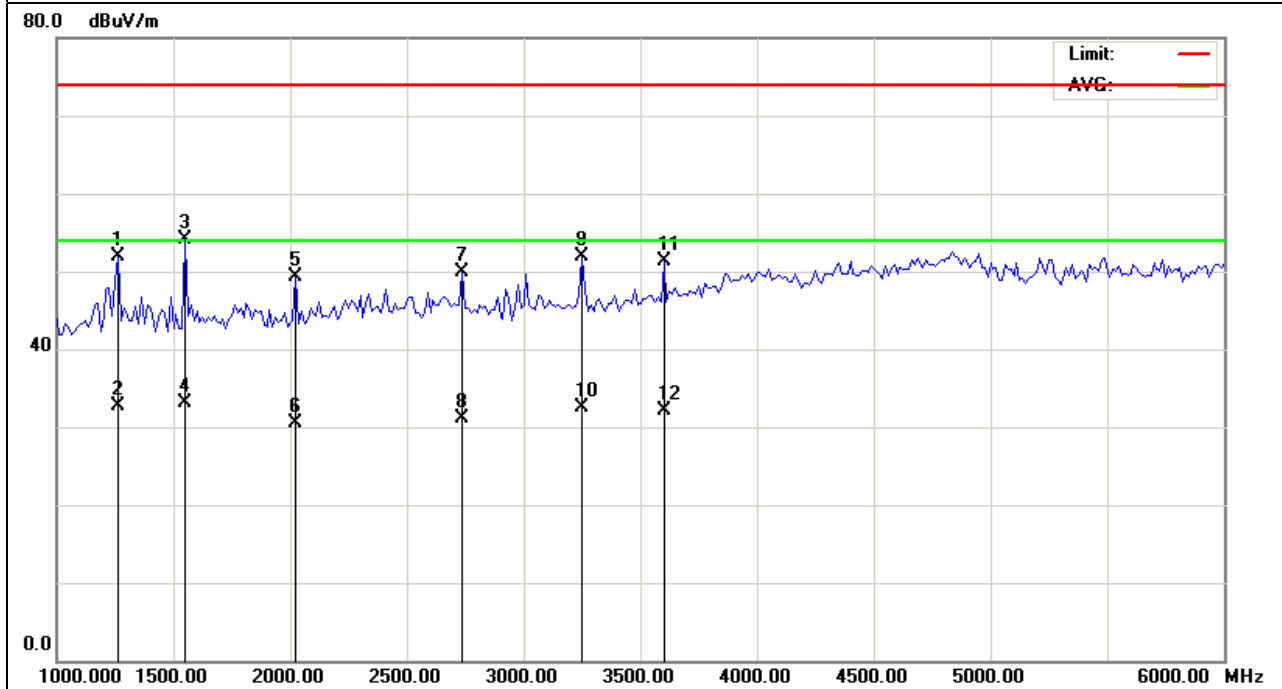
3.2.6 TEST RESULTS(Above 1GHz)

EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Polarization:	Horizontal
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBμV/m)	Factor (dB)	Measurement (dBμV/m)	Limit (dBμV/m)	Over (dB)	Detector
1262.5000	69.77	-17.77	52.00	74.00	-22.00	peak
1262.5000	50.42	-17.77	32.65	54.00	-21.35	AVG
1550.0000	71.05	-16.85	54.20	74.00	-19.80	peak
1550.0000	50.00	-16.85	33.15	54.00	-20.85	AVG
2025.0000	62.12	-12.82	49.30	74.00	-24.70	peak
2025.0000	43.26	-12.82	30.44	54.00	-23.56	AVG
2737.5000	61.55	-11.65	49.90	74.00	-24.10	peak
2737.5000	42.69	-11.65	31.04	54.00	-22.96	AVG
3250.0000	62.73	-10.83	51.90	74.00	-22.10	peak
3250.0000	43.37	-10.83	32.54	54.00	-21.46	AVG
3600.0000	60.60	-9.20	51.40	74.00	-22.60	peak
3600.0000	41.34	-9.20	32.14	54.00	-21.86	AVG

Remark:

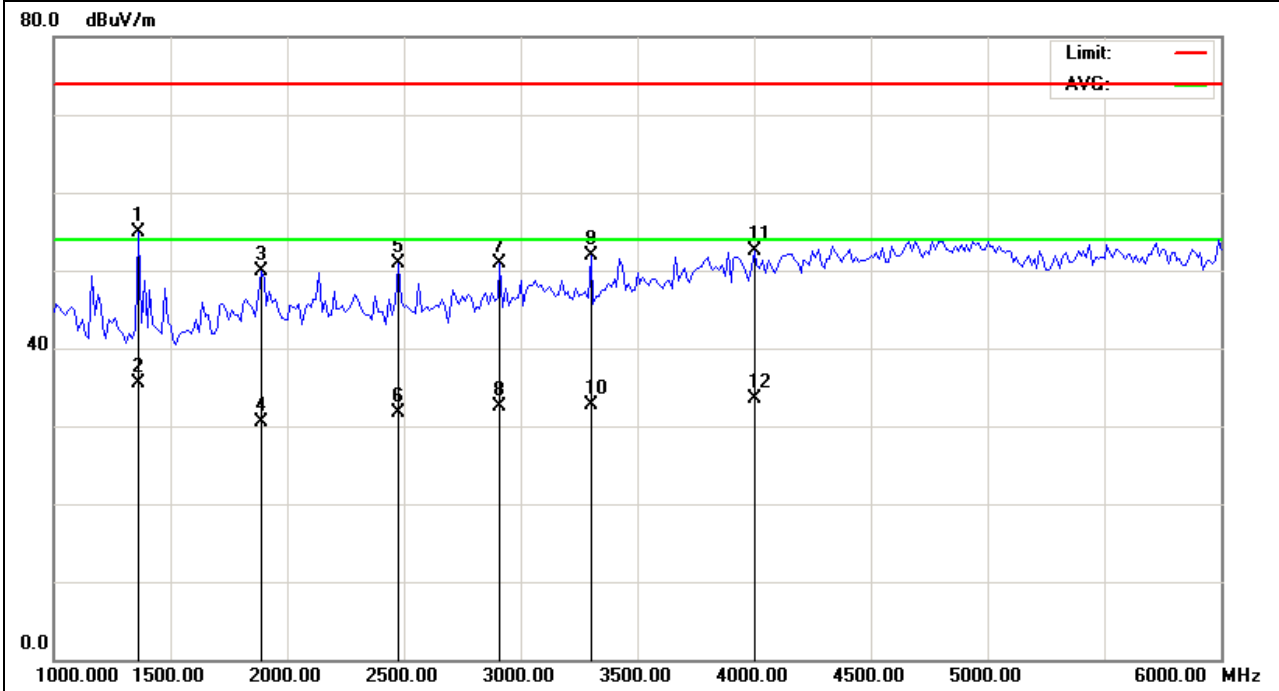
Factor = Antenna Factor + Cable Loss.



EUT:	ScreenBeam Enterprise Wireless Display Receiver	Model Name :	SBWD700A
Temperature:	24°C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2014-10-14
Test Mode:	WIFI	Polarization:	Vertical
Test Power:	DC 5V from Adapter AC 120V/60Hz		

Freq. (MHz)	Reading (dBµV/m)	Factor (dB)	Measurement (dBµV/m)	Limit (dBµV/m)	Over (dB)	Detector
1362.5000	72.29	-17.39	54.90	74.00	-19.10	peak
1362.5000	52.85	-17.39	35.46	54.00	-18.54	AVG
1887.5000	64.23	-14.33	49.90	74.00	-24.10	peak
1887.5000	44.87	-14.33	30.54	54.00	-23.46	AVG
2475.0000	63.72	-12.82	50.90	74.00	-23.10	peak
2475.0000	44.58	-12.82	31.76	54.00	-22.24	AVG
2912.5000	62.89	-11.89	51.00	74.00	-23.00	peak
2912.5000	44.41	-11.89	32.52	54.00	-21.48	AVG
3300.0000	62.48	-10.48	52.00	74.00	-22.00	peak
3300.0000	43.13	-10.48	32.65	54.00	-21.35	AVG
4000.0000	58.93	-6.52	52.41	74.00	-21.59	peak
4000.0000	39.97	-6.52	33.45	54.00	-20.55	AVG

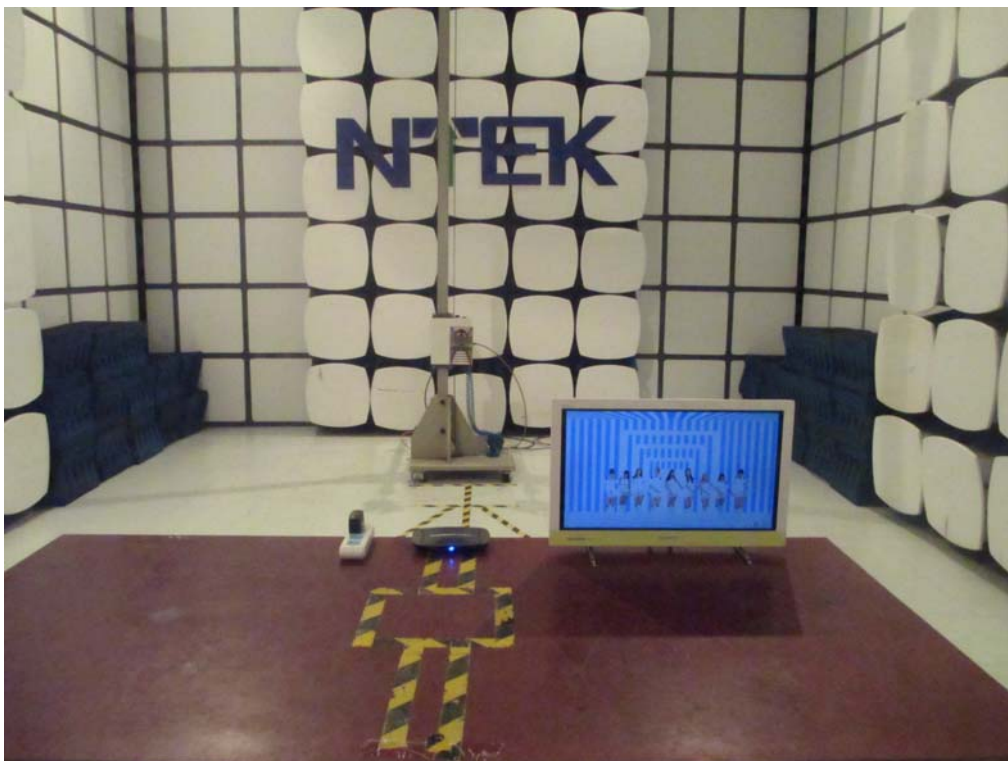
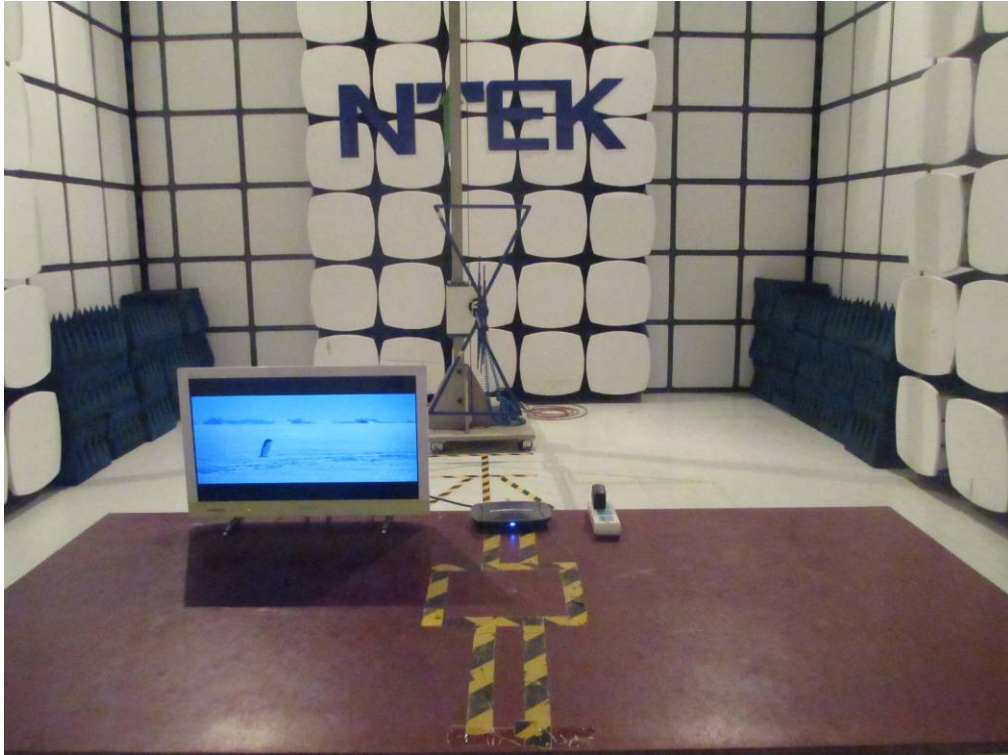
Remark:
Factor = Antenna Factor + Cable Loss.



Note: Only the worst case mode is recorded in the report.

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

