



Product Name : 2.4GHz Wireless AV SENDER

Model No. : AVS-121, AVS-122, AVS-123,

AVS-221, AVS-222, AVS-223

FCC ID. : V94-AVS-121-221-B

Applicant : ABEL INDUSTRIES INT'L Co., Ltd.

Address : 318, SEC. 3, CHANG NAN RD, CHANG HUA, Taiwan

Date of Receipt : 2011/01/12

Issued Date : 2011/01/27

Report No. : 111350R-RFUSP41V01

Report Version : V1.0

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation. This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government



Test Report Certification

Issued Date: 2011/01/27

Report No.: 111350R-RFUSP41V01

QuieTek

Product Name : 2.4GHz Wireless AV SENDER

Applicant : ABEL INDUSTRIES INT'L Co., Ltd.

Address : 318, SEC. 3, CHANG NAN RD, CHANG HUA, Taiwan

Manufacturer : ABEL INDUSTRIES INT'L Co., Ltd.

Model No. : AVS-121, AVS-122, AVS-123, AVS-221, AVS-222, AVS-223

FCC ID. : V94-AVS-121-221-B

EUT Voltage : AC 120V/60Hz

Trade Name : ABELTECH

Applicable Standard : FCC 15 Subpart C Section 15.231: 2009

ANSI C63.4: 2009

Test Result : Complied

The test results relate only to the samples tested.

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		(Sandy Chuang / Adm. Specialist)
Tested By	:	Ben Huang
		(Ben Huang / Engineer)
Approved By	:	Roy Wang
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TABLE OF CONTENTS

Description		Page
1.	General Information	5
1.1.	EUT Description	5
1.2.	Operation Description	
1.3.	Test Mode	8
1.4.	Tested System Details	g
1.5.	Configuration of tested System	g
1.6.	EUT Exercise Software	10
1.7.	Test Facility	11
2.	Conducted Emission	13
2.1.	Test Equipment	13
2.2.	Test Setup	13
2.3.	Limits	14
2.4.	Test Procedure	14
2.5.	Test Specification	14
2.6.	Uncertainty	14
2.7.	Test Result	15
2.8.	Test Photo	17
3.	Radiated Emission	18
3.1.	Test Equipment	18
3.2.	Test Setup	19
3.3.	Limits	20
3.4.	Test Procedure	22
3.5.	Test Specification	22
3.6.	Uncertainty	22
3.7.	Test Result	23
3.8.	Test Photo	28
4.	Occupied Bandwidth	30
4.1.	Test Equipment	30
4.2.	Test Setup	30
4.3.	Limits	30
4.4.	Test Specification	30
4.5.	Uncertainty	
4.6.	Test Result	31
5.	Duty cycle	32
5.1.	Test Equipment	
5.2.	Test Setup	32
5.3.	Limits	
5.4.	Test Specification	
5.5.	Uncertainty	
5.6.	Test Result	33
6.	Transmitter time	34
6.1.	Test Equipment	34

Report No: 111350R-RFUSP41V01



6.2.	Test Setup	32
6.3.	Limits	
6.4.		
6.5.	Uncertainty	
6.6.	Test Result	35
Attachme	ent	36
	EUT Photograph	



1. General Information

1.1. EUT Description

Product Name	2.4GHz Wireless AV SENDER
Trade Name	ABELTECH
Model No.	AVS-121, AVS-122, AVS-123, AVS-221, AVS-222, AVS-223
Frequency Range	433.05~434.79 MHz
Antenna Gain	0dBi
Channel Number	1
Type of Modulation	ASK
Channel Control Manual	
Antenna Type	Soldered on PCB

Component			
IR Antenna	ABEL		
AV Cable	Non-Shielded, 1.0m		
Power Adapter YUYAO CITY ZHONGYU, FY8-001 90300D			
	I/P: 120VAC, 60Hz		
	O/P: 9VDC, 300MA		
	Cable Out: Non-Shielded, 2.0m		

Working Frequency of Each Channel			
Channel	Frequency		
001	433.92 MHz		



Note:

1. This device is a 2.4GHz Wireless AV SENDER included a 2.4GHz transceiver function and a 433.92MHz transceiver function.

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Model No	Photo	Description
AVS-221		2 source with U. IR
AVS-121		Single source with U. IR
AVS-222		2 source with U. IR
AVS-122		Single source with U. IR
AVS-223	Av names (a)	2 source with U. IR
AVS-123	N. MICHARDAN ST.	Single source with U. IR

- 3. The EUT will stop the transmission immediately when the test button is pressed and releases. The EUT will stop the transmission within 5 seconds when the test button is pressed and held.
- 4. The worst case is when the button is pressed. Only the worst case is shown in the report.
- 5. These tests are conducted on a sample for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.231.
- 6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
- 7. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 111350R-RFUSP37V02-A under Declaration of Conformity.



1.3. Test Mode

QuieTek verified the construction and function in typical operation. All the test modes are performed in normal operation and are defined as:

Pre-Test Mode			
TX Mode 1: Transmit			
Final Test Mode			
TX	Mode 1: Transmit		

Emission				
Performed Item				
Conducted Emission	Yes			
Radiated Emission	Yes			
Occupied Bandwidth	Yes			
Duty cycle	Yes			
Transmitter time	Yes			
Power Density	Yes			

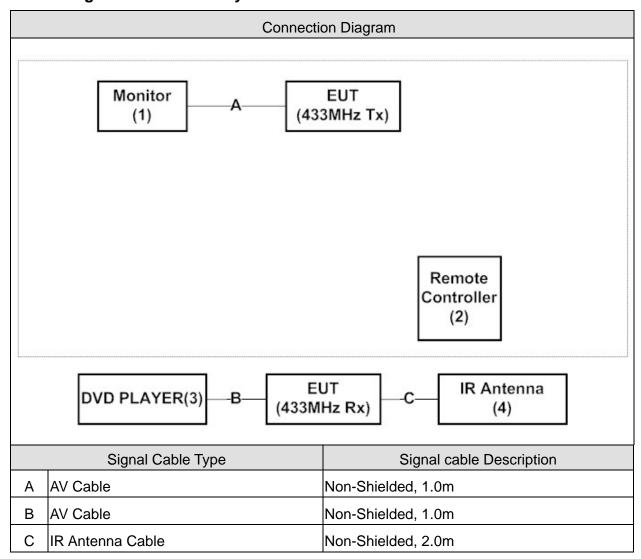


1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	(gg					
	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Monitor	JVC	J20VE6	N/A	DoC	
2	Remote	ILO	N/A	S-04-955	DoC	
	Controller					
3	DVD PLAYER	Pionneer	DV-600AV	GJKD00211	DoC	Non-Shielded, 1.8m
				2LS		
4	IR Antenna	ABEL	N/A	N/A	DoC	
		INDUSTRIES				
		INT'L Co., Ltd.				

1.5. Configuration of tested System





1.6. EUT Exercise Software

1	Setup the EUT as shown in section 1.5.
2	Press the test button of the EUT.
3	Verify that the EUT works properly.

Page: 10 of 41



1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C	15 - 35	22
Humidity (%RH)	15.207 Conducted	25 - 75	55
Barometric pressure (mbar)	Emission	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C	15 - 35	22
Humidity (%RH)	15.231 Radiated	25 - 75	55
Barometric pressure (mbar)	Emission	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C	15 - 35	22
Humidity (%RH)	15.231 Occupied	25 - 75	55
Barometric pressure (mbar)	Bandwidth	860 - 1060	950-1000
Temperature (°C)	F00 DADT 45 0	15 - 35	22
Humidity (%RH)	FCC PART 15 C	25 - 75	55
Barometric pressure (mbar)	15.231 Duty Cycle	860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C	15 - 35	22
Humidity (%RH)	15.231 Transmitter	25 - 75	55
Barometric pressure (mbar)	Time	860 - 1060	950-1000
Temperature (°C)		15 - 35	22
Humidity (%RH)	FCC PART 15 C	25 - 75	55
Barometric pressure (mbar)	15.231 Power Density	860 - 1060	950-1000



Site Description: September 27, 2010 File on

Federal Communications Commission

Laboratory Division

7435 Oakland Mills Road

Columbia, MD 21046

Registration Number: 365520

Accredited by TAF

Accreditation Number: 1313

Effective through: December 27, 2013

Accredited by NVLAP

NVLAP Lab Code: 200347-0

Effective through: September 30, 2011

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,

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Site Name: Quietek Corporation

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Taiwan, R.O.C.

TEL: 886-3-592-8858 / FAX: 886-3-592-8859

E-Mail: service@quietek.com











2. Conducted Emission

2.1. Test Equipment

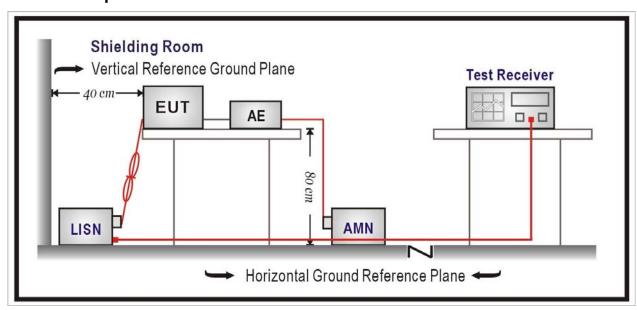
The following test equipments are used during the test:

Conducted Emission/ SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2011/09/20
LISN	R&S	ESH3-Z5	836679/022	2011/05/30
Test Receiver	R&S	ESCS 30	825442/017	2011/02/04

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup





2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)				
Frequency MHz	QP	AV		
0.15 - 0.50	66-56	56-46		
0.50 - 5.0	56	46		
5.0 - 30	60	50		

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2009

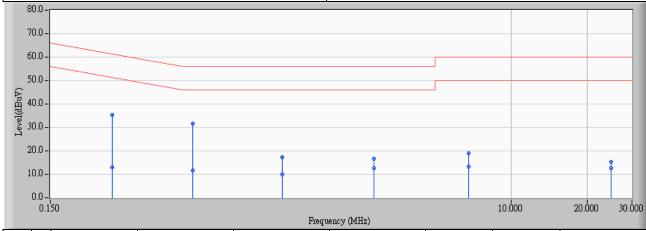
2.6. Uncertainty

± 2.26 dB



2.7. Test Result

Site: SR3	Time : 2011/01/21 - 17:30
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A) - Line1	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note : TX-433.92MHz

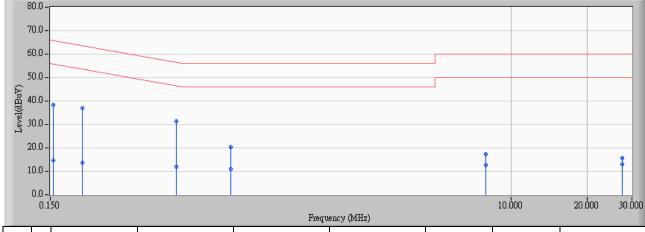


		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV)	(dB)	(dBuV)	
1		0.263	9.657	25.620	35.277	-26.050	61.327	QUASIPEAK
2		0.263	9.657	3.340	12.997	-38.330	51.327	AVERAGE
3	*	0.548	9.727	21.880	31.608	-24.392	56.000	QUASIPEAK
4		0.548	9.727	1.930	11.658	-34.342	46.000	AVERAGE
5		1.244	9.892	7.570	17.463	-38.537	56.000	QUASIPEAK
6		1.244	9.892	0.100	9.993	-36.007	46.000	AVERAGE
7		2.861	9.994	6.540	16.535	-39.465	56.000	QUASIPEAK
8		2.861	9.994	2.740	12.735	-33.265	46.000	AVERAGE
9		6.795	10.108	8.980	19.088	-40.912	60.000	QUASIPEAK
10		6.795	10.108	3.260	13.368	-36.632	50.000	AVERAGE
11		24.865	10.378	5.040	15.419	-44.581	60.000	QUASIPEAK
12		24.865	10.378	2.350	12.729	-37.271	50.000	AVERAGE

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



Site : SR3	Time : 2011/01/21 - 17:33
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A) - Line2	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note : TX-433.92MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV)	(dB)	(dBuV)	
1		0.154	9.669	28.750	38.419	-27.367	65.786	QUASIPEAK
2		0.154	9.669	5.030	14.699	-41.087	55.786	AVERAGE
3		0.201	9.661	27.390	37.051	-26.527	63.578	QUASIPEAK
4		0.201	9.661	4.030	13.691	-39.887	53.578	AVERAGE
5	*	0.474	9.686	21.800	31.486	-24.953	56.440	QUASIPEAK
6		0.474	9.686	2.280	11.966	-34.473	46.440	AVERAGE
7		0.775	9.845	10.600	20.445	-35.555	56.000	QUASIPEAK
8		0.775	9.845	1.080	10.925	-35.075	46.000	AVERAGE
9		7.947	10.149	7.170	17.319	-42.681	60.000	QUASIPEAK
10		7.947	10.149	2.430	12.579	-37.421	50.000	AVERAGE
11		27.392	10.647	5.130	15.777	-44.223	60.000	QUASIPEAK
12		27.392	10.647	2.260	12.907	-37.093	50.000	AVERAGE

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



3. Radiated Emission

3.1. Test Equipment

The following test equipments are used during the test:

Fundamental Power / CB1

Instrument	Manufacturer	Type No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2011/08/14
Spectrum Analyzer	Agilent	E4440A	MY46187335	2011/01/14
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2011/04/07

Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2011/08/14
Horn Antenna	Schwarzback	BBHA 9120D	743	2011/03/14
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2011/12/03
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2011/03/25
Spectrum Analyzer	Agilent	E4440A	MY46187335	2012/01/14
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2011/04/07

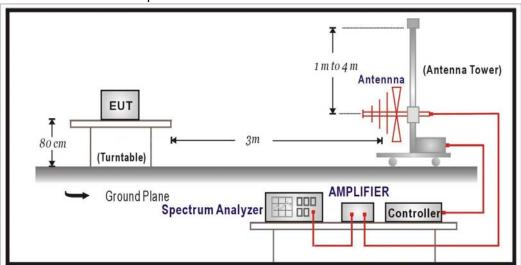
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

Page: 18 of 41

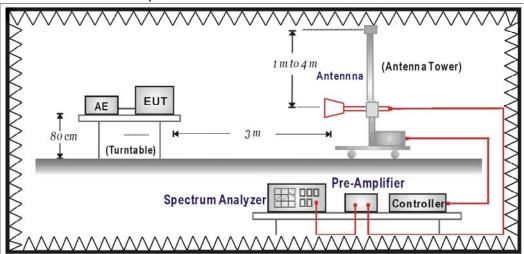


3.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:





3.3. Limits

> Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.231 Limits					
Fundamental Frequency		Field Strength of Fundamental		ength of onics	
MHz	uV/m dBuV/m		uV/m	dBuV/m	
40.66-40.70	2250	67.0	225	47.0	
70-130	1250	62.0	125	42.0	
130-174	1250-3750	62.0-71.5	125-375	42.0-51.5	
174-260	3750	71.5	375	51.5	
260-470	3750-12500	71.5-82.00	375-1250	51.5-62.0	
above 470	12500	82.00	1250	62.0	

Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.



> Spurious electric field strength limits

FCC Part 15 Subpart C Paragraph 15.209 Limits					
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)		
0.009-0.490	2400/F(kHz)	See Remark ¹	300		
0.490-1.705	24000/F(kHz)	See Remark ¹	30		
1.705-30	30	29.5	30		
30-88	100	40	3		
88-216	150	43.5	3		
216-960	200	46	3		
Above 960	500	54	3		

Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The frequency range from 30MHz to 10th harminics is checked.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231: 2009

3.6. Uncertainty

- + 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz



3.7. Test Result

Product	2.4GHz Wireless AV SENDER		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2010/01/24	Test Site	CB1

Frequency MHz	Correct Factor dB	Reading Level dBuV	Peak Measurement Level dBuV/m	Average Measurement Level dBuV/m	Average Limit dBuV/m
Horizontal					
433.92(X-Line)	16.499	62.071	78.571	76.011	80.52
433.92(Y-Line)	16.499	59.708	76.207	73.647	80.52
433.92(Z-Line)	16.499	64.630	81.130	78.571	80.52
Vertical					
433.92(X-Line)	16.5	57.981	74.481	71.921	80.52
433.92(Y-Line)	16.5	64.918	81.418	78.858	80.52
433.92(Z-Line)	16.5	61.406	77.906	75.346	80.52

Note1:

Average Power Measurement= Peak + 20Log(Duty Cycle)

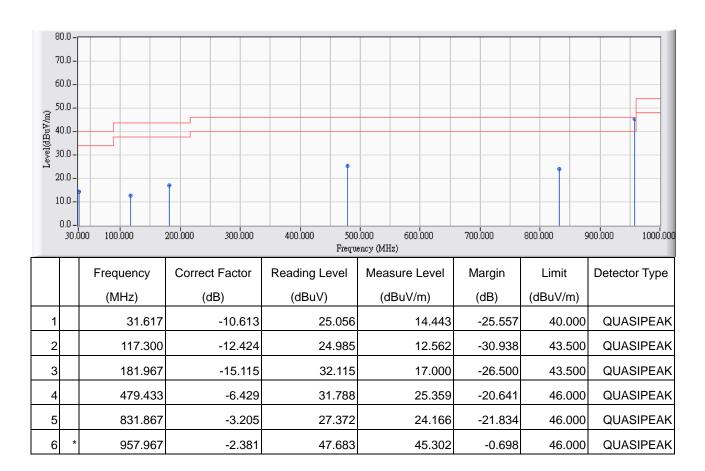
Duty Cycle=(Ton/(Ton+Toff)) = 74.4/100 = 0.744

20*Log(Duty Cycle) = -2.56



30MHz-1GHz Spurious:

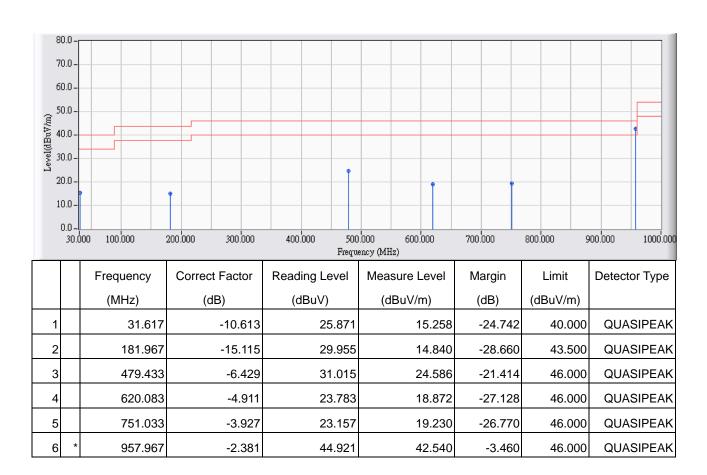
Site : CB1	Time : 2011/01/17 - 18:56
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe: CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note: TX-433.92MHz



- 1. All Reading Levels are Quasi-Peak value.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



Site : CB1	Time : 2011/01/17 - 19:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe: CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note : TX-433.92MHz

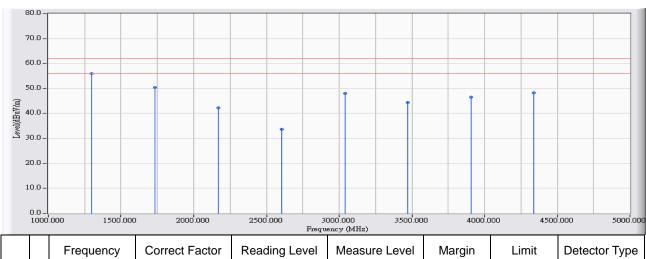


- 1. All Reading Levels are Quasi-Peak value.
- 2. " * ", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor



Above 1GHz Spurious:

Site : CB1	Time : 2011/01/17 - 19:23
Limit: FCC_SpartC_15.231(b)_H_03M_AV	Margin : 6
Probe: CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note : TX-433.92MHz

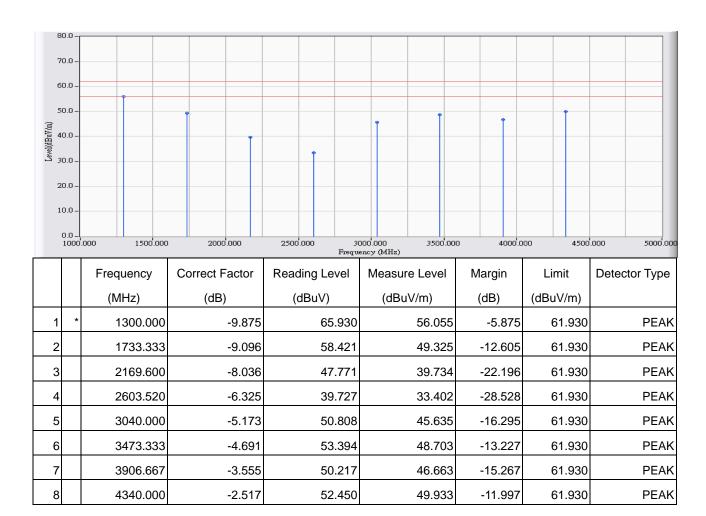


		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	1300.000	-9.875	65.920	56.045	-5.885	61.930	PEAK
2		1733.333	-9.096	59.448	50.352	-11.578	61.930	PEAK
3		2166.667	-8.050	50.223	42.174	-19.756	61.930	PEAK
4		2603.520	-6.325	39.891	33.566	-28.364	61.930	PEAK
5		3040.000	-5.173	53.193	48.020	-13.910	61.930	PEAK
6		3473.333	-4.691	49.013	44.322	-17.608	61.930	PEAK
7		3906.667	-3.555	50.155	46.601	-15.329	61.930	PEAK
8		4340.000	-2.517	50.725	48.208	-13.722	61.930	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. " * ", means this data is the worst emission level.
- 4. Measurement Level = Reading Level + Correct Factor.
- The average measurement was not performed when the peak measured data under the limit of average detection.



Site : CB1	Time : 2011/01/17 - 19:32
Limit: FCC_SpartC_15.231(b)_H_03M_AV	Margin : 6
Probe: CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : 2.4GHz Wireless AV SENDER	Note : TX-433.92MHz



- All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. " * ", means this data is the worst emission level.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.



4. Occupied Bandwidth

4.1. Test Equipment

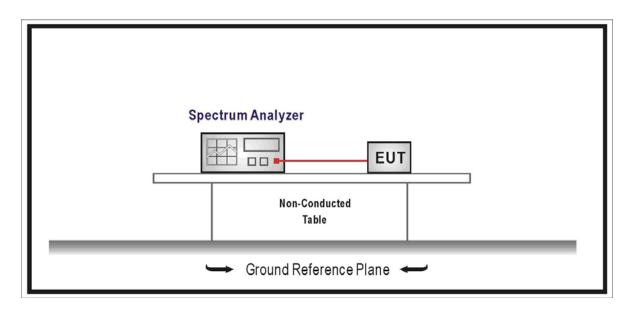
The following test equipments are used during the radiated emission tests:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/06

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231: 2009

4.5. Uncertainty

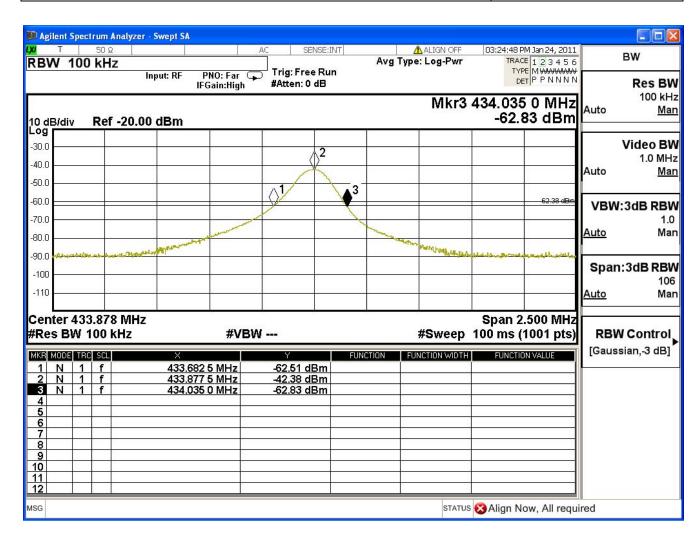
± 150Hz



4.6. Test Result

Product	2.4GHz Wireless AV SENDER		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/01/24	Test Site	CB1

Center Frequency	433.92 MHz
Allowable Bandwidth (70-900 MHz: 0.25%, Above 900MHz: 0.5%)	1084.8 KHz
Bandwidth at 20dB down (Max)	353 KHz
Result	PASS





5. Duty cycle

5.1. Test Equipment

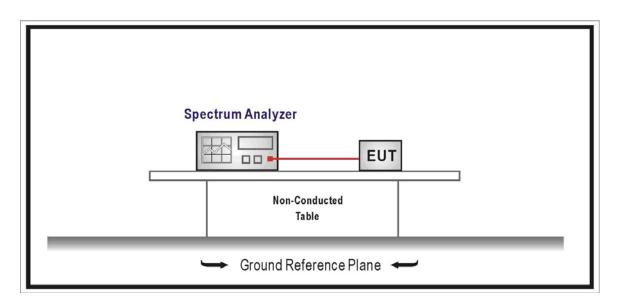
The following test equipments are used during the radiated emission tests:

Duty cycle / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/06

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

N/A

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231: 2009

5.5. Uncertainty

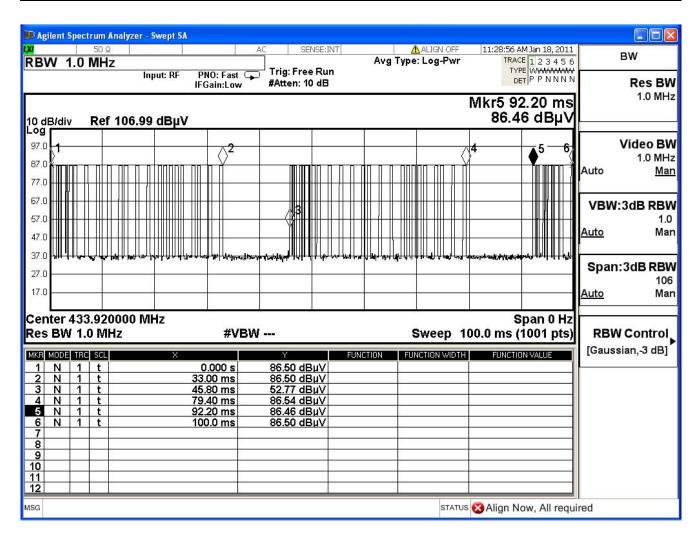
± 25msec



5.6. Test Result

Product	2.4GHz Wireless AV SENDER		
Test Item	Duty Cycle		
Test Mode	Mode 1: Transmit		
Date of Test	2011/01/24	Test Site	CB1

Center Frequency 433.92 MHz	
Ton= 74.4ms	
Ton+Toff= 100ms	
Duty Cycle= 74.4/100	0.744





6. Transmitter time

6.1. Test Equipment

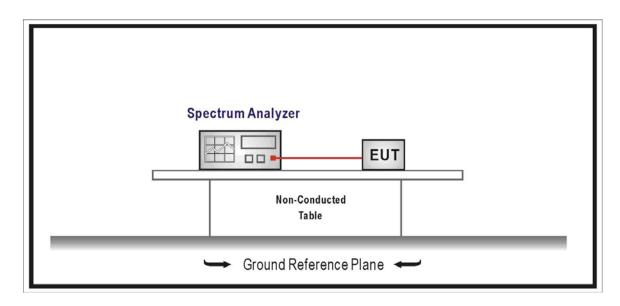
The following test equipments are used during the radiated emission tests:

Transmitter time / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/06

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. A transmitter activated automatically shall cease transmission within 5 seconds after activation.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231: 2009

6.5. Uncertainty

± 25msec



6.6. Test Result

Product	2.4GHz Wireless AV SENDER		
Test Item	Transmitter time		
Test Mode	Mode 1: Transmit		
Date of Test	2011/01/24	Test Site	CB1

Center Frequency	433.92 MHz
Transmitter time = 1.092s < 5 sec.	Below 5 sec.
Result	PASS

