



Product Name	Universal Remote Control
Model No.	Remote 850
FCC ID	FSUGMZI7

Applicant	KYE SYSTEMS CORP. (Genius)
Address	No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei
	Hsien, 24160, Taiwan, R. O. C.

Date of Receipt	Feb. 13, 2008
Issued Date	Apr. 09, 2008
Report No.	082135R-RFUSP07V01
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: Apr. 09, 2008

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Applicant	KYE SYSTEMS CORP. (Genius)	
Address	No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R. O. C.	
Manufacturer	KYE SYSTEMS CORP. (Genius)	
Model No.	Remote 850	
Rated Voltage	DC 6V (Power by battery)	
Working Voltage	DC 6V (Power by battery)	
Trade Name	Genius	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2007 ANSI C63.4: 2003	
Test Result	Complied	

Test results relate only to the samples tested.

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Documented By

(Adm. Specialist / Leven Huang)

Tested By

(Assistant Engineer / Johnson Liao)

Approved By



(Deputy Manager / Vincent Lin)

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Attachment 1: EUT Test Photographs
Attachment 2: EUT Detailed Photographs



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Universal Remote Control
Trade Name	Genius
Model No.	Remote 850
FCC ID	FSUGMZI7
Frequency Range	2403~2480MHz
Channel Control	Auto
Channel Separation	4MHz
Antenna Gain	2.61 dBi
Channel Number	20
Type of Modulation	GFSK
Antenna Type	Printed on PCB

Frequency of Each Channel

Channel	Frequency	Channel	Frequency
Channel 01:	2403 MHz	Channel 11:	2443 MHz
Channel 02:	2407 MHz	Channel 12:	2447 MHz
Channel 03:	2411 MHz	Channel 13:	2451 MHz
Channel 04:	2415 MHz	Channel 14:	2455 MHz
Channel 05:	2419 MHz	Channel 15:	2459 MHz
Channel 06:	2423 MHz	Channel 16:	2463 MHz
Channel 07:	2427 MHz	Channel 17:	2467 MHz
Channel 08:	2431 MHz	Channel 18:	2471 MHz
Channel 09:	2435 MHz	Channel 19:	2475 MHz
Channel 10:	2441 MHz	Channel 20:	2480 MHz

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Note:

- 1. The EUT is a Universal Remote Control with a built-in 2.4GHz transceiver.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
- 4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249 for spread spectrum devices.
- 5. Part 15 Subpart B compliance for spread spectrum devices is shown on the report no. 082135R-RFUSP01V02.
- 6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is 2.4GHz Universal Remote Control built-in 2.4GHz transceiver. The operation frequency is from 2403 MHz to 2480MHz with GFSK modulation. The signal will be transmitted through 2.4 GHz RF signal from the Printed on PCB antenna. DC 6V shall be provided for EUT operation.

Test Mode 1: Transmir	ter
-----------------------	-----

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1.3. Tested System Datails

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

Proc	luct	Manufacturer	Model No.	Serial No.	Power Cord
1	N/A	N/A	N/A	N/A	N/A

Signal Cable Type		Signal cable Description	
A	N/A	N/A	

1.4. Configuration of Test System

	EUT		
l		I	

1.5. EUT Exercise Software

1	Setup the EUT as shown on 1.4.
2	Turn on the power for EUT.
3	The EUT to enter RF test mode.
4	The EUT will continuously receiver the radio signal.
5	Repeat the above procedure (3) to (4)

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1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 Registration Number: 92195

Accreditation on NVLAP NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation

Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,

Lin-Kou Shiang, Taipei,

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FCC Accreditation Number: TW1014





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2. Conducted Emission

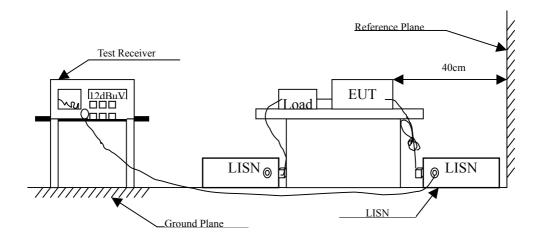
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room	m		N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit					
Frequency	Limits				
MHz	QP	AV			
0.15 - 0.50	66-56 _(\$\delta\)	56-46 ₍₁₂₎			
0.50-5.0	56	46			
5.0 - 30	60	50			

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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: 2003 on conducted measurement.

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

2.5. Uncertainty

+ 2.26 dB



2.6. Test Result of Conducted Emission

The EUT is powered by battery. This test item is not performed.

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3. Radiated Emission

3.1. Test Equipment

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

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☐Site # 1	Test Receiver	R & S	ESVS 10 / 834468/003	May, 2007
	Spectrum Analyzer	Advantest	R3162/ 00803480	May, 2007
	Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2007
☐Site # 2	Test Receiver	R & S	ESCS 30 / 836858 / 022	May, 2007
	Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2007
	Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2007
	Horn Antenna	ETS	3115 / 0005-6160	Sep., 2007
	Pre-Amplifier	QTK	QTK-AMP-01/0001	May, 2007
⊠ Site # 3	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	Spectrum Analyzer	HP	E4407B / US39440758	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

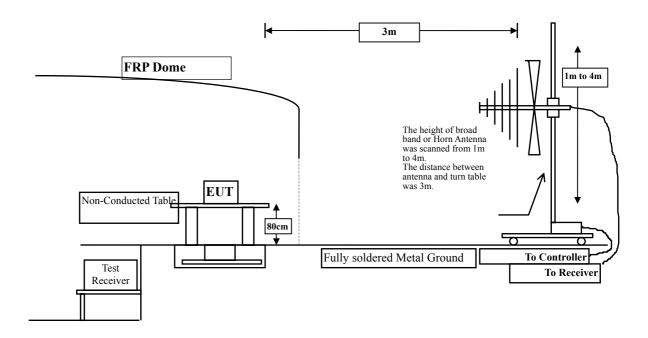
2. The test instruments marked with "X" are used to measure the final test results.

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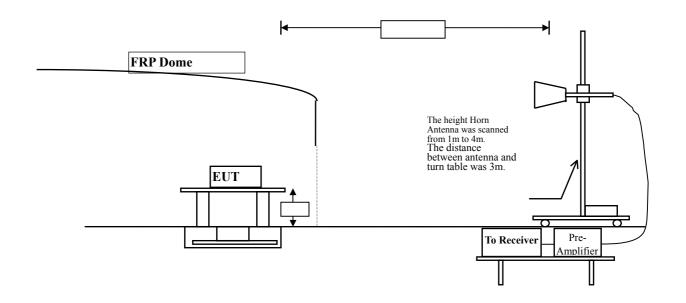


3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



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3.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits					
Frequency MHz	uV/m @3m	dBuV/m@3m			
30-88	100	40			
88-216	150	43.5			
216-960	200	46			
Above 960	500	54			

Remarks: E field strength $(dBuV/m) = 20 \log E$ field strength (uV/m)

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3.4. Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 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. Uncertainty

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



3.6. Test Result of Radiated Emission

Product : Universal Remote Control

Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter (2403MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					_
Peak Detector:					
Channel 01					
2403.000	-6.721	90.722	84.650	-30.000	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 01					
2403.000	-6.721	91.722	85.700	-29.000	114.000

Average Detector

--

Note:

- 1. Measurement Level = Reading Level + Correct Factor.
- 2. Correct Factor = Antenna Factor + Cable Loss PreAMP.

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Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector: Channel 10					
2441.000	-6.584	89.584	83.218	-31.000	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 10					
2441.000	-6.584	90.584	84.334	-30.000	114.000

Average Detector

_

Note:

1. Measurement Level = Reading Level + Correct Factor.

2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

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Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmitter (2480MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector: Channel 20					
2480.000	-6.475	88.474	82.478	-32.000	114.000
Average Detector					
Vertical					
Peak Detector:					
Channel 20					
2480.000	-6.475	91.474	85.552	-29.000	114.000

Average Detector

Note:

1. Measurement Level = Reading Level + Correct Factor.

2. Correct Factor = Antenna Factor + Cable Loss – PreAMP.

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Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2403MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4806.000	-0.208	47.580	47.372	-26.628	74.000
7209.000	3.270	45.480	48.750	-25.250	74.000
9612.000	5.704	40.800	46.504	-27.496	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4806.000	-0.208	46.990	46.782	-27.218	74.000
7209.000	3.270	44.210	47.480	-26.520	74.000
9612.000	5.704	40.880	46.584	-27.416	74.000
Average					

Note:

Detector:

- 1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:30Hz; Span:20MHz •
- 4. Emission Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

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Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2441 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4882.000	-0.276	47.260	46.984	-27.016	74.000
7323.000	3.330	43.460	46.789	-27.211	74.000
9764.000	6.262	41.140	47.403	-26.597	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4882.000	-0.276	47.160	46.884	-27.116	74.000
7323.000	3.330	42.890	46.219	-27.781	74.000
9764.000	6.262	40.840	47.103	-26.897	74.000

Average

Detector:

--

Note:

- 1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:30Hz; Span:20MHz •
- 4. Emission Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

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Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2480 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4960.000	0.591	44.760	45.351	-28.649	74.000
7440.000	3.924	43.170	47.094	-26.906	74.000
9920.000	6.468	39.510	45.978	-28.022	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4960.000	0.591	47.950	48.541	-25.459	74.000
7440.000	3.924	41.580	45.504	-28.496	74.000
9920.000	6.468	39.480	45.948	-28.052	74.000
Average					
Detector:					

Note:

- 1. The reading levels below 1GHz and above 1GHz are quasi-peak values and peak/average values, respectively.
- 2. Receiver setting (Peak Detector): RBW:1MHz; VBW:1MHz; Span:100MHz •
- 3. Receiver setting (AVG Detector): RBW:1MHz; VBW:30Hz; Span:20MHz •
- 4. Emission Level = Reading Level + Correct Factor.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

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Test Item : General Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmitter (2441 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
297.720	14.089	4.503	18.592	-27.408	46.000
499.478	18.228	5.426	23.654	-22.346	46.000
567.380	19.160	2.949	22.109	-23.891	46.000
767.500	22.117	-3.271	18.846	-27.154	46.000
800.180	21.764	1.734	23.498	-22.502	46.000
920.460	22.967	1.674	24.641	-21.359	46.000
Vertical					
99.840	10.725	11.659	22.384	-21.116	43.500
218.180	10.337	12.841	23.178	-22.822	46.000
299.660	13.749	7.848	21.597	-24.403	46.000
524.700	18.764	3.911	22.675	-23.325	46.000
749.740	23.178	-2.608	20.570	-25.430	46.000
961.200	23.009	1.689	24.698	-29.302	54.000

Note:

- 1. The reading levels below 1GHz are quasi-peak values.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

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4. Band Edge

4.1. Test Equipment

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786/004	May, 2007
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

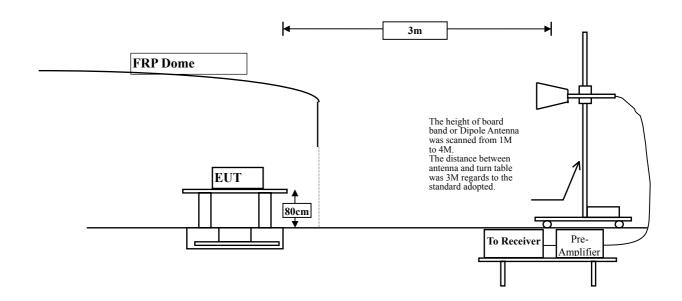
Test Site: Site3

lote: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

4.2. Test Setup

RF Radiated Measurement:



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4.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.4. 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: 2003 on radiated measurement.

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

4.5. Uncertainty

Conducted is \pm 1.27 dB

Radiated is + 3.9 dB



4.6. Test Result of Band Edge

Product : Universal Remote Control

Test Item : Band Edge Data
Test Site : No.3 OATS

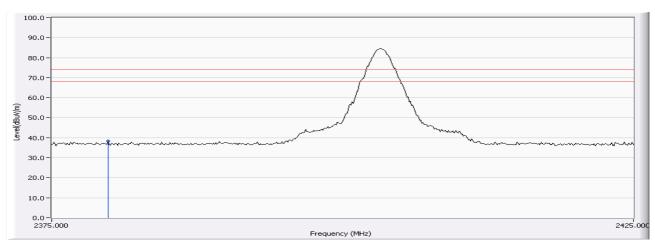
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2379.800	-6.801	45.098	38.297	74.00	54.00	Pass
01(Average)					74.00	54.00	Pass

Figure Channel 01:

Horizontal (Peak)





Test Item : Band Edge Data
Test Site : No.3 OATS

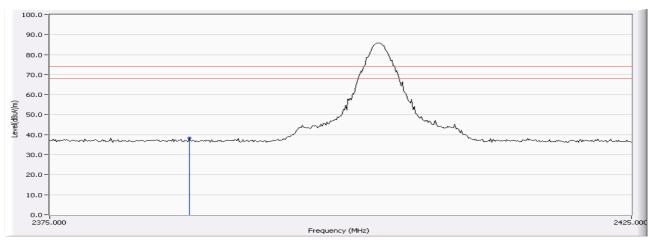
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2386.900	-6.777	45.020	38.243	74.00	54.00	Pass
01 (Average)					74.00	54.00	Pass

Figure Channel 01:

Vertical (Peak)





Test Item : Band Edge Data
Test Site : No.3 OATS

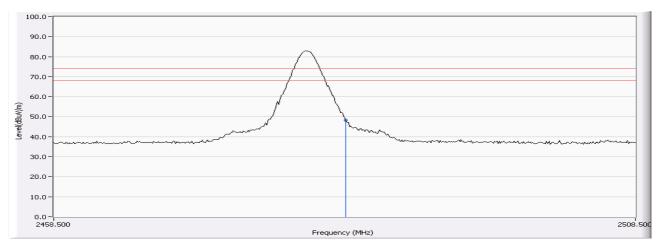
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
20(Peak)	2483.500	-6.469	54.735	48.267	74.00	54.00	Pass
20(Average)					74.00	54.00	Pass

Figure Channel 20:

Horizontal (Peak)





Test Item : Band Edge Data
Test Site : No.3 OATS

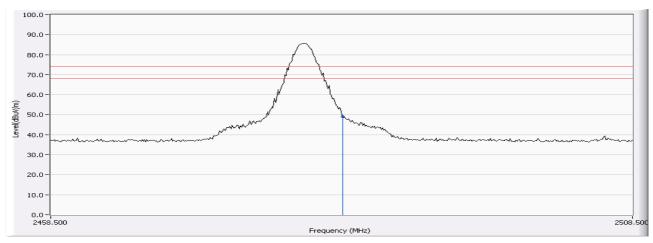
Test Mode : Mode 1: Transmitter

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
20(Peak)	2483.500	-6.469	55.520	49.052	74.00	54.00	Pass
20(Average)	-	-	1	-	74.00	54.00	Pass

Figure Channel 20:

Vertical (Peak)





5. EMI Reduction Method During Compliance Testing

No modification was made during testing.

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