

FCC Test Report

Product Name	In wall Switch
Model No.	PAN08-2
FCC ID.	RHHPAN08

Applicant	Philio Technology Corporation
Address 8F., No.653-2, Zhongzheng Rd., Xinzhuang I	
New Taipei City 24257, Taiwan(R.O.C)	

Date of Receipt	Jun. 20, 2013
Issued Date	Jul. 08, 2013
Report No.	136342R-RFUSP25V01
Report Version	V1.0



The Test Results relate only to the samples tested.

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Test Report Certification

Issued Date: Jul. 08, 2013

Report No. : 136342R-RFUSP25V01



Product Name	In wall Switch
Applicant	Philio Technology Corporation
Address	8F., No.653-2, Zhongzheng Rd., Xinzhuang Dist., New Taipei City 24257, Taiwan(R.O.C)
Manufacturer	Philio Technology Corporation
Model No.	PAN08-2
FCC ID.	RHHPAN08
EUT Rated Voltage	AC 90~240V, 47~63Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	Phillip
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2012
	ANSI C63.4: 2003, ANSI C63.10: 2009
Test Result	Complied

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Documented By	: _	Jinn Chen
		(Senior Adm. Specialist / Jinn Chen)
Tested By	:	Vincent chu
		(Engineer / Vincent Chu)
Approved By	:	Stonds
		(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	In wall Switch
Trade Name	epine .
FCC ID.	RHHPAN08
Model No.	PAN08-2
Frequency Range	908.42MHz
Type of Modulation	FSK
Number of Channels	1
Channel Control	Auto
Antenna Type	Monopole Antenna

Center Frequency of Each Channel:

Channel Frequency
Channel 1: 908.42MHz

- 1. The EUT is an In wall Switch with a built-in 908.42MHz Z-Wave transceiver.
- 2. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.249.
- 3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit
10st Wiode	Wode 1. Hansinit



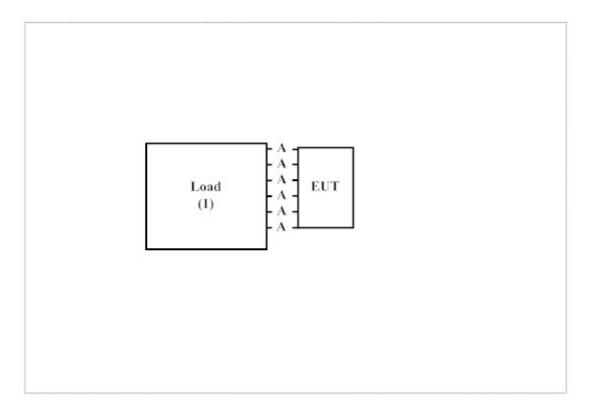
1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1.	Load (400W)	Pioneer of Lighting Technologies	N/A	N/A	N/A

Signal Cable Type		Signal cable Description	
A.	Power Line Cable	Non-shielded, 0.2m, six PCS.	

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4.
- (2) Provide the AC Power Source.
- (3) Starts the continuous transmit.
- (4) Verify that the EUT works correctly.



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

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://tw.quietek.com/modules/myalbum/
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046

Registration Number: 92195

Site Name: Quietek Corporation

Site Address: No.5-22, Ruishukeng Linkou Dist., New Taipei City

24451, Taiwan, R.O.C.

TEL: 886-2-8601-3788 / FAX: 886-2-8601-3789

E-Mail: service@quietek.com

FCC Accreditation Number: TW1014



2. Conducted Emission

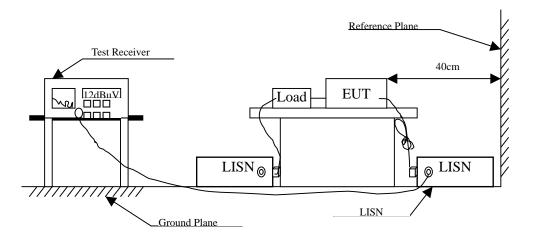
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2012	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2013	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2013	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2013	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2013	
	No.8 Shielded Room				

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

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	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 C63.10: 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. Uncertainty

± 2.26 dB



2.6. Test Result of Conducted Emission

Product : In wall Switch

Test Item : Conducted Emission Test

Power Line : Line 1

Test Mode : Mode 1: Transmit

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					_
Quasi-Peak					
0.170	9.790	37.460	47.250	-18.179	65.429
0.220	9.790	36.500	46.290	-17.710	64.000
0.259	9.790	35.340	45.130	-17.756	62.886
0.380	9.790	32.170	41.960	-17.469	59.429
0.494	9.790	28.560	38.350	-17.821	56.171
0.720	9.790	21.140	30.930	-25.070	56.000
Average					
0.170	9.790	34.310	44.100	-11.329	55.429
0.220	9.790	32.720	42.510	-11.490	54.000
0.259	9.790	25.120	34.910	-17.976	52.886
0.380	9.790	25.970	35.760	-13.669	49.429
0.494	9.790	24.460	34.250	-11.921	46.171
0.720	9.790	17.090	26.880	-19.120	46.000

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



Test Item : Conducted Emission Test

Power Line : Line 2

Test Mode : Mode 1: Transmit

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					_
Quasi-Peak					
0.170	9.770	38.680	48.450	-16.979	65.429
0.197	9.770	38.260	48.030	-16.627	64.657
0.228	9.770	36.720	46.490	-17.281	63.771
0.295	9.770	34.970	44.740	-17.117	61.857
0.400	9.770	32.770	42.540	-16.317	58.857
1.892	9.790	21.660	31.450	-24.550	56.000
Average					
0.170	9.770	23.630	33.400	-22.029	55.429
0.197	9.770	18.510	28.280	-26.377	54.657
0.228	9.770	16.870	26.640	-27.131	53.771
0.295	9.770	22.570	32.340	-19.517	51.857
0.400	9.770	10.080	19.850	-29.007	48.857
1.892	9.790	12.160	21.950	-24.050	46.000

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



3. Radiated Emission

3.1. Test Equipment

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

Test Site	Equi	pment	Manufacturer	Model No./Serial No.	Last Cal.
⊠Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2013
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2013
	X	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
	X	Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2013
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2013
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

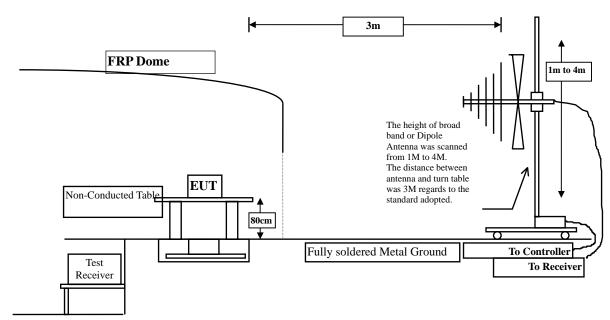
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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

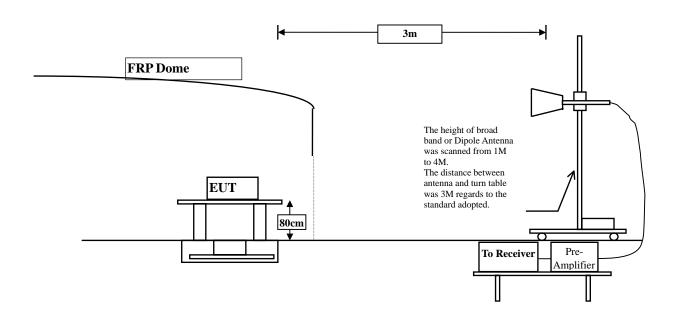


3.2. Test Setup

Below 1GHz



Above 1GHz





3.3. Limits

> Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits						
Frequency	Field Strength	of Fundamental	Field Strength of Harmonics			
MHz	(mV/m @3m)	(dBuV/m @3m)	(uV/m @3m)	(dBuV/m @3m)		
902-928	50	94	500	54		
2400-2483.5	50	94	500	54		
5725-5875	50	94	500	54		

 $Remarks: \ 1. \ RF \ Voltage \ (dBuV/m) = 20 \ log \ RF \ Voltage \ (uV/m)$

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.

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB 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	Field strength	Measurement distance			
IVIII	(microvolts/meter)	(meter)			
0.009-0.490	2400/F(kHz)	300			
0.490-1.705	24000/F(kHz)	30			
1.705-30	30	30			
30-88	100	3			
88-216	150	3			
216-960	200	3			
Above 960	500	3			

Remarks: 1. RF Voltage $(dBuV/m) = 20 \log RF Voltage (uV/m)$

- 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 C63.10: 2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~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 bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range form 30MHz - 10th Harmonic of fundamental was investigated.

3.5. Uncertainty

- + 3.9 dB above 1GHz
- \pm 3.8 dB below 1GHz



3.6. Test Result of Radiated Emission

Product : In wall Switch

Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmit (X-asix)

Peak Detector

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
908.420	27.562	62.854	90.416	-3.584	94.000
Vertical					
908.420	24.073	68.393	92.466	-1.534	94.000

- 1. All Readings below 1GHz are peak detector, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmit (Y-asix)

Peak Detector

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
908.420	27.562	64.984	92.546	-1.454	94.000
Vertical					
908.420	24.073	64.483	88.556	-5.444	94.000

- 1. All Readings below 1GHz are peak detector, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Fundamental Radiated Emission

Test Site : No.3OATS

Test Mode : Mode 1: Transmit (Z-asix)

Peak Detector

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
908.420	27.562	64.294	91.856	-2.144	94.000
Vertical					
908.420	24.073	62.413	86.486	-7.514	94.000

- 1. All Readings below 1GHz are peak detector, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna Factor + Cable Loss PreAMP.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1810.000	-4.423	44.385	39.961	-34.039	74.000
2728.000	-1.058	51.329	50.271	-23.729	74.000
3633.680	-0.395	39.456	39.061	-34.939	74.000
4542.100	1.901	39.524	41.426	-32.574	74.000
5450.520	4.228	37.054	41.282	-32.718	74.000
6358.940	6.502	36.785	43.287	-30.713	74.000
7267.360	11.106	34.448	45.554	-28.446	74.000
8182.000	15.025	38.227	53.252	-20.748	74.000

Average Detector:

__

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test Item : Harmonic Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Vertical					
Peak Detector:					
1810.000	-2.538	41.669	39.130	-34.870	74.000
2728.000	-1.212	55.112	53.900	-20.100	74.000
3633.680	0.379	38.664	39.043	-34.957	74.000
4546.000	5.438	45.125	50.563	-23.437	74.000
5450.520	5.976	36.292	42.267	-31.733	74.000
6364.000	8.016	40.003	48.019	-25.981	74.000
7267.360	11.925	34.890	46.815	-27.185	74.000
8182.000	15.667	43.610	59.276	-14.724	74.000
Average Detector:					
8182.000	15.667	35.672	51.338	-2.662	54.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss -Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test Item : General Radiated Emission Data

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
101.506	-15.668	38.350	22.682	-20.818	43.500
224.311	-20.048	52.093	32.045	-13.955	46.000
319.135	-16.715	50.536	33.821	-12.179	46.000
415.513	-11.316	46.259	34.943	-11.057	46.000
780.817	-5.979	41.702	35.723	-10.277	46.000
844.551	-5.880	46.150	40.270	-5.730	46.000
Vertical					
98.397	-15.786	39.136	23.350	-20.150	43.500
222.756	-12.724	43.473	30.749	-15.251	46.000
448.157	-12.119	39.502	27.383	-18.617	46.000
569.407	-10.238	38.945	28.707	-17.293	46.000
745.064	-8.298	39.063	30.765	-15.235	46.000
844.551	-6.408	42.384	35.976	-10.024	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.



4. Band Edge

4.1. Test Equipment

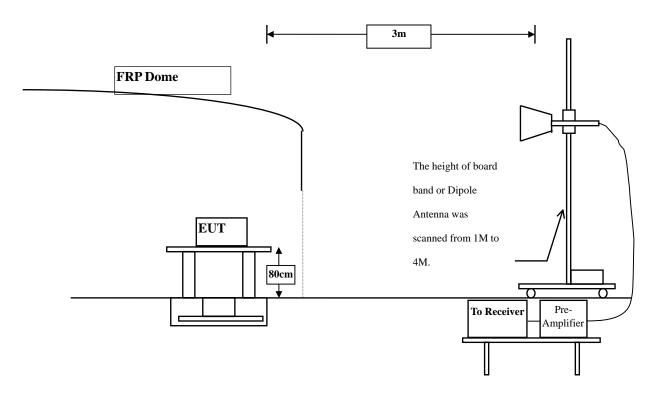
The following test equipments are used during the band edge tests:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2013
		Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2013
		Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2013
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- 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



4.3. Limit

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 C63.10:2009 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

4.5. Uncertainty

Radiated is \pm 3.9 dB.



4.6. Test Result of Band Edge

Product : In wall Switch
Test Item : Band Edge Data
Test Site : No.3 OATS

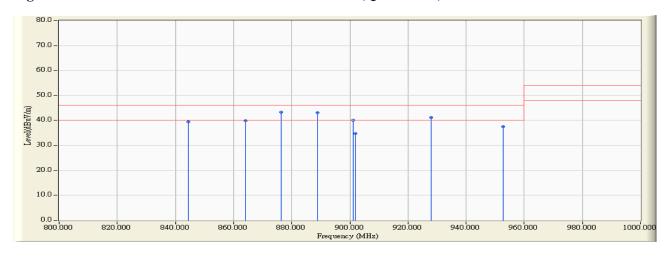
Test Mode : Mode 1: Transmit

RF Radiated Measurement (Horizontal):

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
01(Quasi-Peak)	844.397	-5.880	45.400	39.520	46.000	Pass
02(Quasi-Peak)	863.995	-5.968	45.800	39.832	46.000	Pass
03(Quasi-Peak)	876.396	-5.579	48.800	43.221	46.000	Pass
04(Quasi-Peak)	888.790	-6.080	49.200	43.120	46.000	Pass
05(Quasi-Peak)	901.190	-6.118	46.200	40.083	46.000	Pass
06(Quasi-Peak)	902.000	-6.100	40.800	34.699	46.000	Pass
07(Quasi-Peak)	928.000	-4.898	46.000	41.102	46.000	Pass
08(Quasi-Peak)	952.791	-4.823	42.400	37.577	46.000	Pass

Figure Channel 01:

Horizontal (Quasi-Peak)



- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



Product : In wall Switch
Test Item : Band Edge Data
Test Site : No.3 OATS

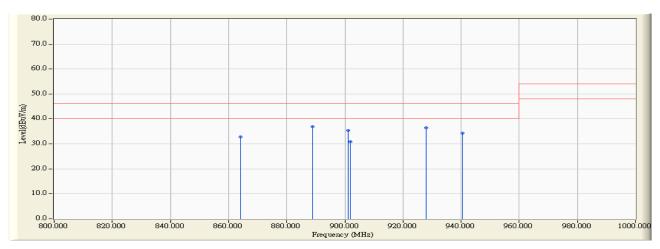
Test Mode : Mode 1: Transmit

RF Radiated Measurement (Vertical):

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Quasi-Peak Limit (dBuV/m)	Result
01(Quasi-Peak)	863.996	-5.896	38.800	32.904	863.996	Pass
02(Quasi-Peak)	888.790	-5.253	42.200	36.947	888.790	Pass
03(Quasi-Peak)	901.190	-4.959	40.400	35.441	901.190	Pass
04(Quasi-Peak)	902.000	-4.950	35.900	30.950	902.000	Pass
05(Quasi-Peak)	928.000	-4.898	41.300	36.402	928.000	Pass
06(Quasi-Peak)	940.392	-4.860	39.200	34.340	940.392	Pass

Figure Channel 01:

Vertical (Quasi-Peak)



- 1. Quasi-Peak measurements: RBW=100kHz,VBW=1MHz,Sweep: Auto.
- 2. "*", means this data is the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor.



5. EMI Reduction Method During Compliance Tes	esting
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No modification was made during testing.