

FCC Test Report

Product Name	In wall Switch
Model No.	PAN06-2
FCC ID.	RHHAPN06

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

Date of Receipt	June 20, 2013
Issued Date	July 05, 2013
Report No.	136341R-RFUSP25V01
Report Version	V1.0



The Test Results relate only to the samples tested.

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Test Report Certification

Issued Date: July 05, 2013

Report No.: 136341R-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.	PAN06-2
FCC ID.	RHHAPN06
EUT Rated Voltage	AC 90~240V, 47~63Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	a but
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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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.	RHHAPN06
Model No.	PAN06-2
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
1000 111000	Mode 1. Hunshit



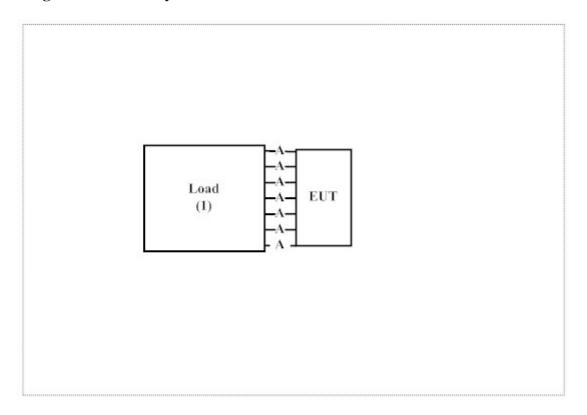
1.3. Tested System Details

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

Pro	duct	Manufacturer	Model No.	Serial No.	Power Cord
1.	Load (400W)	Pioneer	N/A	N/A	N/A

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

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FCC Accreditation Number: TW1014



2. Conducted Emission

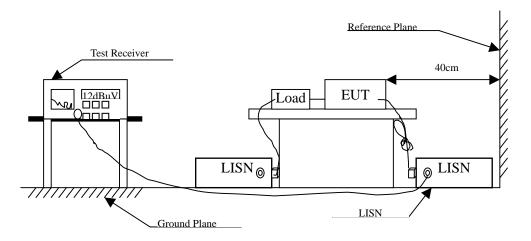
2.1. Test Equipment

	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					
0.189	9.790	35.360	45.150	-19.736	64.886
0.310	9.790	34.170	43.960	-17.469	61.429
0.377	9.790	33.250	43.040	-16.474	59.514
0.908	9.790	24.870	34.660	-21.340	56.000
1.220	9.790	19.610	29.400	-26.600	56.000
1.611	9.800	24.250	34.050	-21.950	56.000
Average					
0.189	9.790	25.600	35.390	-19.496	54.886
0.310	9.790	27.290	37.080	-14.349	51.429
0.377	9.790	28.620	38.410	-11.104	49.514
0.908	9.790	20.990	30.780	-15.220	46.000
1.220	9.790	16.780	26.570	-19.430	46.000
1.611	9.800	18.700	28.500	-17.500	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					
0.205	9.770	33.900	43.670	-20.759	64.429
0.267	9.770	34.000	43.770	-18.887	62.657
0.326	9.770	33.400	43.170	-17.801	60.971
0.466	9.770	29.960	39.730	-17.241	56.971
0.986	9.780	17.680	27.460	-28.540	56.000
1.599	9.790	20.770	30.560	-25.440	56.000
Average					
0.205	9.770	8.140	17.910	-36.519	54.429
0.267	9.770	19.470	29.240	-23.417	52.657
0.326	9.770	19.530	29.300	-21.671	50.971
0.466	9.770	16.730	26.500	-20.471	46.971
0.986	9.780	12.950	22.730	-23.270	46.000
1.599	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	Equipment		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

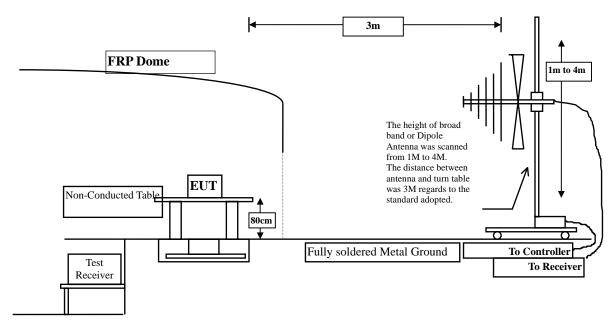
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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

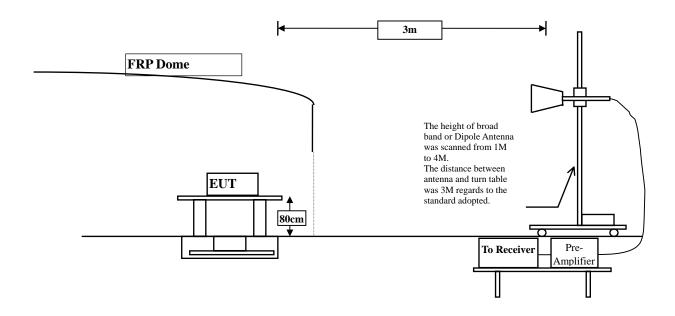


3.2. Test Setup

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)	(mV/m @3m) (dBuV/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				
2.222	(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 9KHz - 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	62.984	90.546	-3.454	94.000
Vertical					
908.420	24.073	68.543	92.616	-1.384	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	64.864	92.426	-1.574	94.000
Vertical					
908.420	24.073	64.503	88.576	-5.424	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	64.824	92.386	-1.614	94.000
Vertical					
908.420	24.073	61.763	85.836	-8.164	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	43.264	38.840	-35.160	74.000
2728.000	-1.058	49.064	48.006	-25.994	74.000
3633.680	-0.395	39.312	38.917	-35.083	74.000
4542.100	1.901	39.913	41.815	-32.185	74.000
5450.520	4.228	35.385	39.613	-34.387	74.000
6358.940	6.502	37.764	44.266	-29.734	74.000
7267.360	11.106	34.924	46.030	-27.970	74.000
8182.000	15.025	37.796	52.821	-21.179	74.000
9084.200	13.021	34.496	47.517	-26.483	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	43.343	40.804	-33.196	74.000
2728.000	-1.212	44.376	43.164	-30.836	74.000
3633.680	0.379	39.023	39.402	-34.598	74.000
4542.100	5.407	40.218	45.625	-28.375	74.000
5450.520	5.976	36.178	42.153	-31.847	74.000
6358.940	7.975	38.592	46.568	-27.432	74.000
7267.360	11.925	35.484	47.409	-26.591	74.000
8182.000	15.667	41.540	57.206	-16.794	74.000
9084.200	13.142	35.030	48.172	-25.828	74.000
Average Detector:					
8182.000	15.667	35.105	50.771	-3.229	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					
42.436	-11.952	41.430	29.478	-10.522	40.000
227.420	-19.803	41.273	21.470	-24.530	46.000
594.279	-6.351	38.615	32.264	-13.736	46.000
710.865	-7.052	39.974	32.922	-13.078	46.000
844.551	-5.880	41.540	35.660	-10.340	46.000
973.574	-5.452	41.615	36.163	-17.837	54.000
Vertical					
205.657	-12.491	39.236	26.745	-16.755	43.500
403.077	-12.170	38.476	26.306	-19.694	46.000
555.417	-10.600	38.812	28.212	-17.788	46.000
681.330	-9.005	38.553	29.548	-16.452	46.000
844.551	-6.408	39.092	32.684	-13.316	46.000
976.683	-4.760	38.615	33.855	-20.145	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.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.



4. Band Edge

4.1. Test Equipment

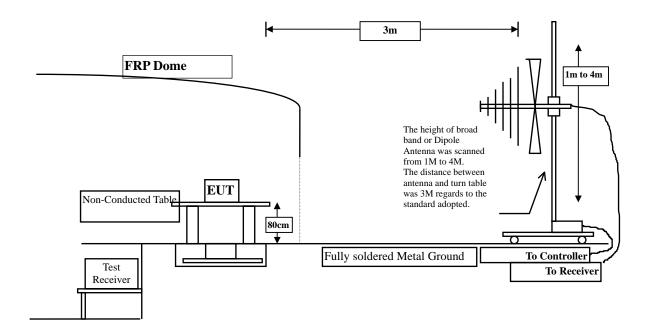
The following test equipments are used during the band edge tests:

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
 		Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2013
		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

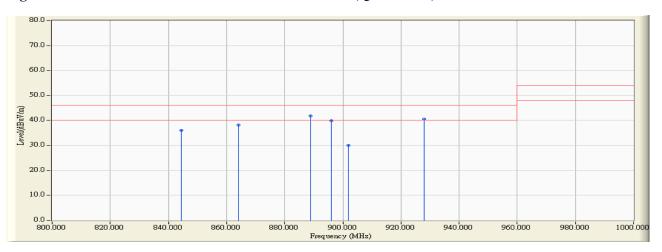
Test Mode : Mode 1: Transmit

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	41.810	35.930	46.020	Pass
02(Quasi-Peak)	863.998	-5.968	44.100	38.132	46.020	Pass
02(Quasi-Peak)	888.790	-6.080	48.000	41.920	46.020	Pass
02(Quasi-Peak)	896.000	-6.110	46.000	39.890	46.020	Pass
02(Quasi-Peak)	902.000	-6.100	36.100	29.999	46.020	Pass
02(Quasi-Peak)	928.000	-5.878	46.400	40.522	46.020	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

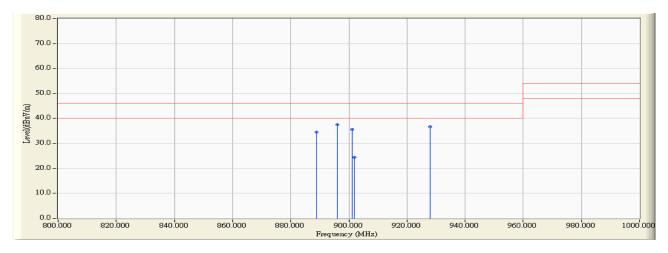
Test Mode : Mode 1: Transmit

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)	888.790	-5.253	39.800	34.547	46.020	Pass
02(Quasi-Peak)	896.000	-5.064	42.500	37.436	46.020	Pass
02(Quasi-Peak)	901.180	-4.959	40.500	35.541	46.020	Pass
02(Quasi-Peak)	902.000	-4.950	29.360	24.410	46.020	Pass
02(Quasi-Peak)	928.000	-4.898	41.600	36.702	46.020	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 Testing

No modification was made during testing.