

EMC

TEST REPORT

Report No.: 161200063TWN-001

Model No.: PAD02

Issued Date: Dec. 28, 2016

Applicant: Philio Technology Corporation
8F., No.653-2, Zhongzheng Rd., Xinzhuang Dist.,
New Taipei City 24257, Taiwan

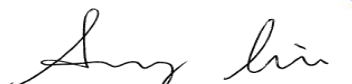
Test Method/ Standard: 47 CFR FCC Part 15.249 & ANSI C63.10 2013

Test By: Intertek Testing Services Taiwan Ltd.,
Hsinchu Laboratory
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,
Shiang-Shan District, Hsinchu City, Taiwan

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The test report was prepared by:


Sunny Liu/ Senior Officer

These measurements were taken by:


Wayne Chen/ Engineer

The test report was reviewed by:

Name Jimmy Yang
Title Senior Engineer

Revision History

Report No.	Issue Date	Revision Summary
161200063TWN-001	Dec. 28, 2016	Original report

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Summary of Tests

Test	Reference	Results
Radiated Emission test	15.249(c), 15.209	Pass
Emission on the Band Edge	15.249(d)	Pass
Conducted Emission of AC Power	15.207	Pass
20dB Bandwidth	15.215(c)	Pass

1. General information

1.1 Identification of the EUT

Product: Smart Dimmer Socket

Model No.: PAD02

Brand name:



Frequency Range: 908.4 MHz, 916 MHz

Channel Number: 2 Channels

Frequency of Each Channel: 908.4 MHz, 916 MHz

Type of Modulation: GFSK

Rated Power: 100-240 Vac, 50-60 Hz

Power Cord: N/A

Sample Received: Dec. 07, 2016

Sample condition: Workable

Test Date(s): Dec. 12, 2016 ~ Dec. 23, 2016

Note 1: The test report only allows to be revised within three years from its original issued date unless further standard or the requirement was noticed.

Note 2: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

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1.2 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0 dBi

Antenna Type : Monopole Antenna

Connector Type : Fixed

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

TX-MODE is based on Power on.

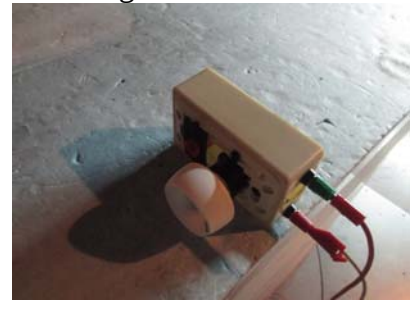
The signal is maximized through rotation and placement in the three orthogonal axes.



X axis



Y axis



Z axis

After verifying three axes, we found the maximum electromagnetic field was occurred at Z axis. The final test data was executed under this configuration.

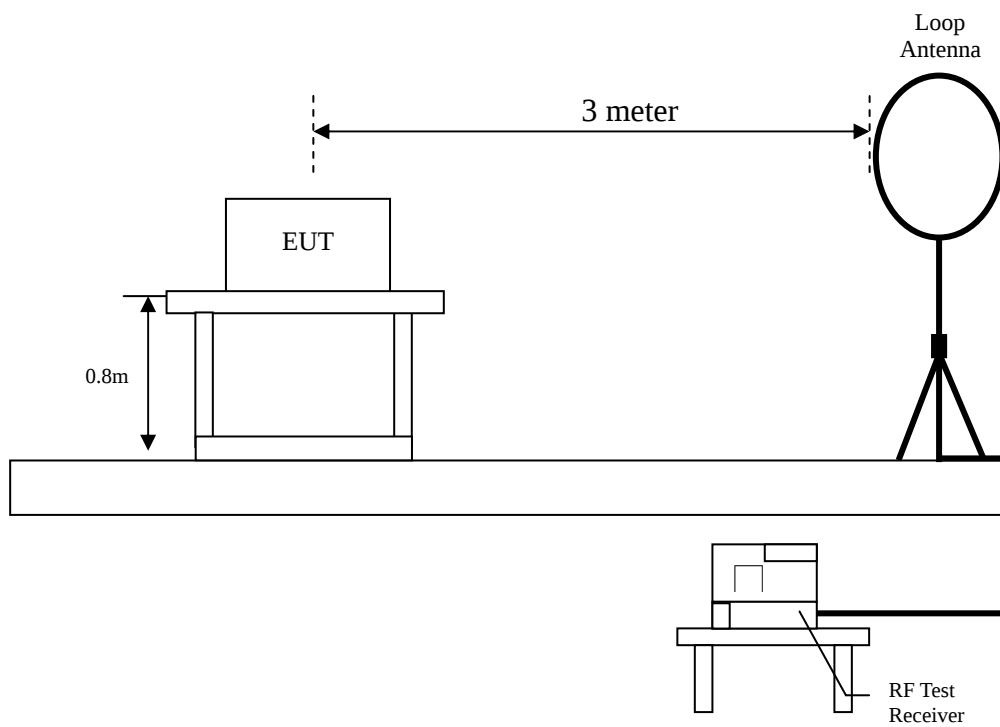
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

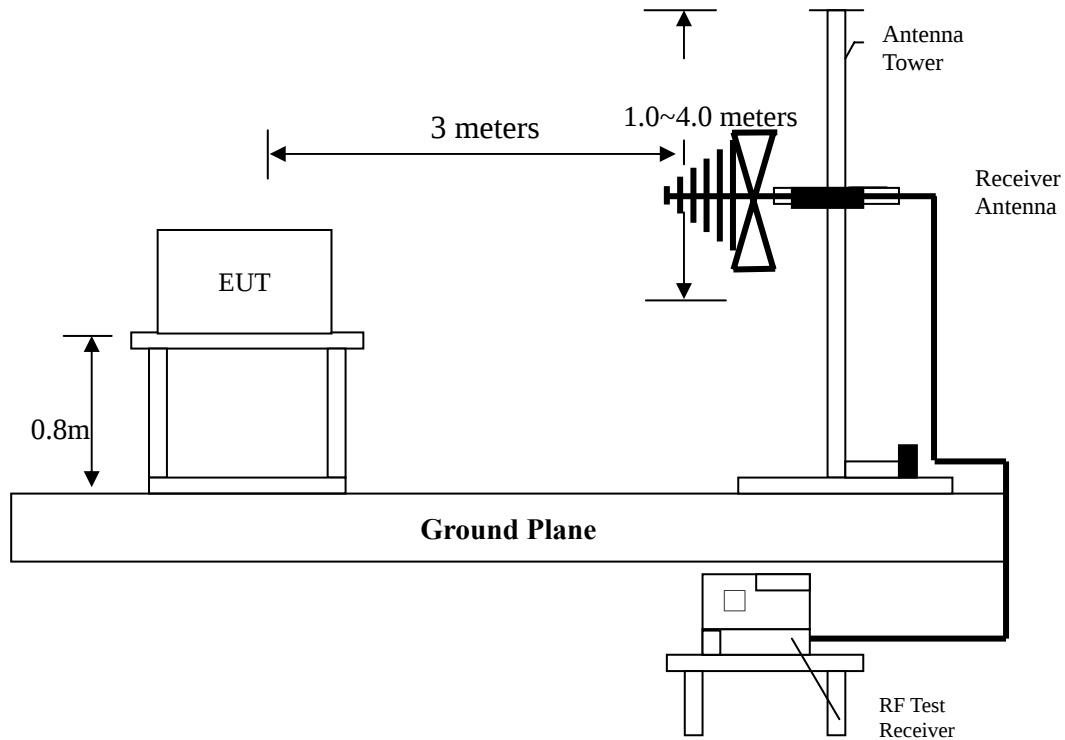
Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1008 hPa
Test date: Dec. 22, 2016

3.2 Test setup & procedure

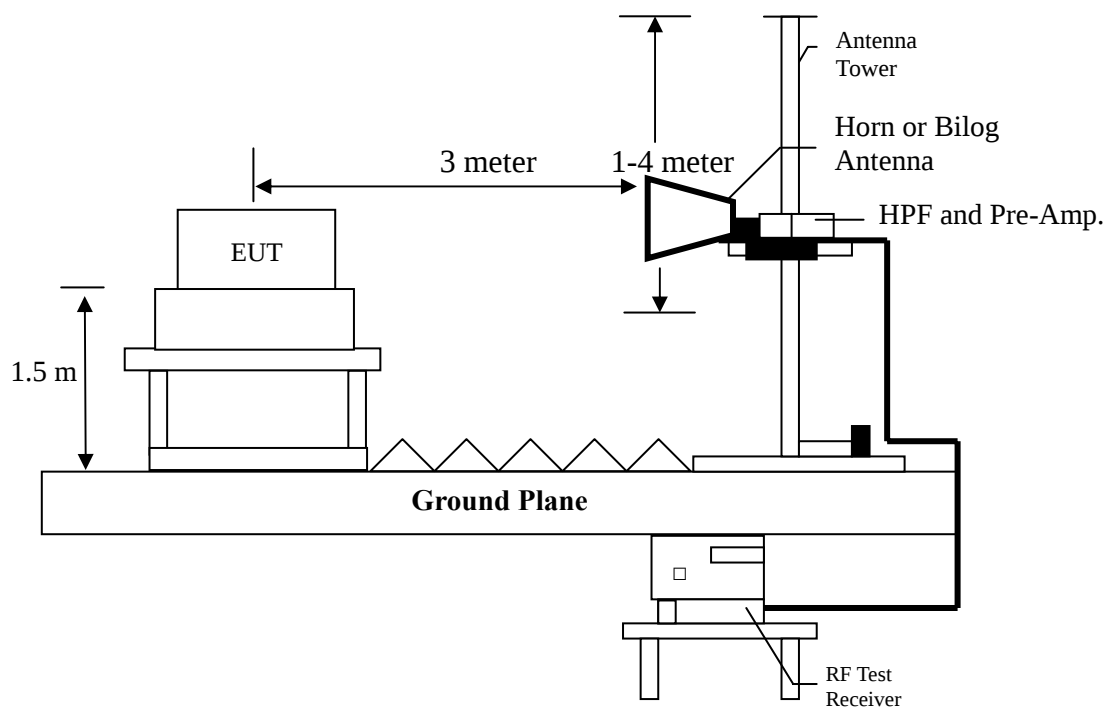
Radiated emission from 9 kHz to 30 MHz uses Loop Antenna:



Radiated emission from 30 MHz to 1 GHz uses Bilog Antenna:



Radiated emission above 1 GHz uses Horn Antenna:



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 3MHz VBW record Peak and Average reading (15.209 paragraph) on the report.

The EUT for testing is arranged on a turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
908.4, 916.0	50	94	500	54

3.3.2 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.

Frequency MHz	15.209 Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

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

3.4 Radiated spurious emission test data

3.4.1 Measurement results: frequency range from 9 kHz to 30 MHz

The test was performed continuously transmitting mode. 908.4 MHz and 916.0 MHz were verified. The worst case occurred at 908.4 MHz.

EUT : PAD02

Polarity (circle)	Frequency (MHz)	Detection value	factor (dB/m)	Reading (dB μ V)	Value (dB μ V/m)	Limit @ 3m (dB μ V/m)	Tolerance (dB)
Plane	0.02	QP	20.92	46.29	67.20	121.58	-54.38
Plane	0.05	QP	20.83	52.80	73.63	113.62	-39.99
Plane	0.06	QP	20.82	48.34	69.16	112.04	-42.88
Plane	0.07	QP	20.81	48.47	69.28	110.70	-41.42
Plane	0.10	QP	20.77	40.96	61.73	107.60	-45.87
Plane	0.13	QP	20.77	37.38	58.15	105.33	-47.18
Plane	0.15	QP	20.77	33.99	54.76	104.08	-49.32

Remark: Corr. Factor = Antenna Factor + Cable Loss - PreAmplifier Gain

3.4.2 Measurement results: frequencies equal to or less than 1 GHz

The test was performed continuously transmitting mode. 908.4 MHz and 916.0 MHz were verified. The worst case occurred at 908.4 MHz.

EUT: PAD02
Worst case: 908.4 MHz

Antenna Polarized (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
Vertical	70.74	QP	14.20	25.19	39.39	40.00	-0.61
Vertical	148.34	QP	16.45	25.89	42.34	43.50	-1.16
Vertical	161.92	QP	16.35	22.38	38.73	43.50	-4.77
Vertical	196.84	QP	13.86	26.86	40.72	43.50	-2.78
Vertical	208.48	QP	14.50	26.55	41.05	43.50	-2.45
Vertical	220.12	QP	14.66	28.69	43.35	46.00	-2.65
Horizontal	716.76	QP	25.98	14.08	40.06	46.00	-5.94
Horizontal	749.74	QP	26.54	14.10	40.64	46.00	-5.36
Horizontal	780.78	QP	27.01	17.92	44.93	46.00	-1.07
Horizontal	813.76	QP	27.51	13.29	40.80	46.00	-5.20
Horizontal	844.80	QP	27.96	15.28	43.24	46.00	-2.76
Horizontal	877.78	QP	28.35	16.02	44.37	46.00	-1.63

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

3.4.3 Measurement results: frequency above 1GHz

EUT : PAD02

Test Condition : 908.4MHz

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
908.4MHz	1816.8	PK	V	38.64	31.57	15.01	46.58	74.00	-27.42
	2725.2	PK	V	39.52	34.63	19.98	54.61	74.00	-19.39
	2725.2	AV	V	39.52	34.63	15.74	50.37	54.00	-3.63
	3633.6	PK	V	40.13	36.18	17.00	53.18	74.00	-20.82
	4542	PK	V	40.62	39.18	8.63	47.81	74.00	-26.19
	5450.4	PK	V	38.36	40.89	13.50	54.39	74.00	-19.61
	5450.4	AV	V	38.36	40.89	9.29	50.18	54.00	-3.82
	6358.8	PK	V	38.29	43.46	7.39	50.85	74.00	-23.15
	7267.2	PK	V	38.06	45.97	5.50	51.47	74.00	-22.53
	8175.6	PK	V	37.31	47.88	2.81	50.69	74.00	-23.31
	9084	PK	V	37.53	48.33	5.71	54.04	74.00	-19.96
	9084	AV	V	37.53	48.33	1.69	50.02	54.00	-3.98
	1816.8	PK	H	38.64	31.57	11.56	43.13	74.00	-30.87
	2725.2	PK	H	39.52	34.63	20.79	55.42	74.00	-18.58
	2725.2	AV	H	39.52	34.63	16.84	51.47	54.00	-2.53
	3633.6	PK	H	40.13	36.18	17.63	53.81	74.00	-20.19
	3633.6	AV	H	40.13	36.18	13.08	49.26	54.00	-4.74
	4542	PK	H	40.62	39.18	15.47	54.65	74.00	-19.35
	4542	AV	H	40.62	39.18	11.31	50.49	54.00	-3.51
	5450.4	PK	H	38.36	40.89	8.33	49.22	74.00	-24.78
	6358.8	PK	H	38.29	43.46	9.25	52.71	74.00	-21.29
	7267.2	PK	H	38.06	45.97	5.91	51.88	74.00	-22.12
	8175.6	PK	H	37.31	47.88	6.10	53.98	74.00	-20.02
	8175.6	AV	H	37.31	47.88	2.07	49.95	54.00	-4.05
	9084	PK	H	37.53	48.33	3.81	52.14	74.00	-21.86

Remark: Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain

EUT : PAD02
Test Condition : 916.0 MHz

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
916MHz	1832	PK	V	38.63	31.60	14.16	45.76	74.00	-28.24
	2748	PK	V	39.54	34.65	21.46	56.11	74.00	-17.89
	2748	AV	V	39.54	34.65	17.40	52.05	54.00	-1.95
	3664	PK	V	40.15	36.35	15.90	52.25	74.00	-21.75
	4580	PK	V	40.55	39.24	9.82	49.06	74.00	-24.94
	5496	PK	V	38.21	40.98	11.74	52.72	74.00	-21.28
	6412	PK	V	38.30	43.76	7.74	51.50	74.00	-22.50
	7328	PK	V	38.00	46.09	6.96	53.05	74.00	-20.95
	8244	PK	V	37.30	47.81	3.24	51.05	74.00	-22.95
	9160	PK	V	37.61	48.43	4.52	52.95	74.00	-21.05
	1832	PK	H	38.63	31.60	10.96	42.56	74.00	-31.44
	2748	PK	H	39.54	34.65	22.76	57.41	74.00	-16.59
	2748	AV	H	39.54	34.65	18.74	53.39	54.00	-0.61
	3664	PK	H	40.15	36.35	16.09	52.44	74.00	-21.56
	4580	PK	H	40.55	39.24	15.21	54.45	74.00	-19.55
	4580	AV	H	40.55	39.24	11.02	50.26	54.00	-3.74
	5496	PK	H	38.21	40.98	7.81	48.79	74.00	-25.21
	6412	PK	H	38.30	43.76	8.90	52.66	74.00	-21.34
	7328	PK	H	38.00	46.09	7.09	53.18	74.00	-20.82
	8244	PK	H	37.30	47.81	6.82	54.63	74.00	-19.37
	8244	AV	H	37.30	47.81	2.56	50.37	54.00	-3.63
	9160	PK	H	37.61	48.43	3.89	52.32	74.00	-21.68

Remark: Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain

3.4.4 Measurement results: Fundamental and harmonics emission

EUT : PAD02

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Z-Wave	908.4	PK	V	28.68	65.40	94.08	114	-19.92
	908.4	AV	V	28.68	62.88	91.56	94	-2.44
	908.4	PK	H	28.68	60.25	88.93	114	-25.07
	916.0	PK	V	28.74	64.16	92.90	114	-21.10
	916.0	PK	H	28.74	60.25	88.99	114	-25.01

4. Radiated emission on the band edge FCC 15.249(d)

4.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1008 hPa
Test date: Dec. 22, 2016

4.2 Radiated emission on the band edge test data

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (908.4 & 916.0 MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT : PAD02

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)	Restricted band (MHz)
971.488	PK	V	29.28	21.94	51.22	74	-22.78	960~1240

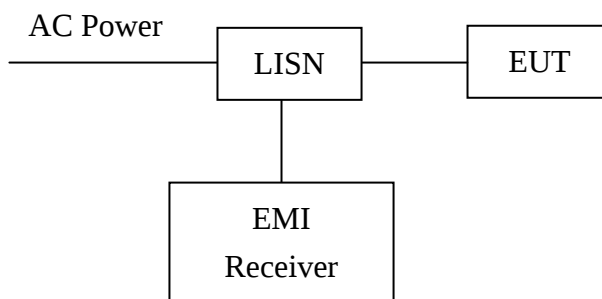
Remark: Correction Factor = Antenna Factor + Cable Loss

5. Conducted emission test FCC 15.207

5.1 Operating environment

Temperature:	25	°C
Relative Humidity:	65	%
Atmospheric Pressure:	1003	hPa
Test date:	Dec. 12, 2016	

5.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). 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.

Both sides (Line and Neutral) of AC 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.

The bandwidth of the field strength meter (R & S Test Receiver ESCI) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

5.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.

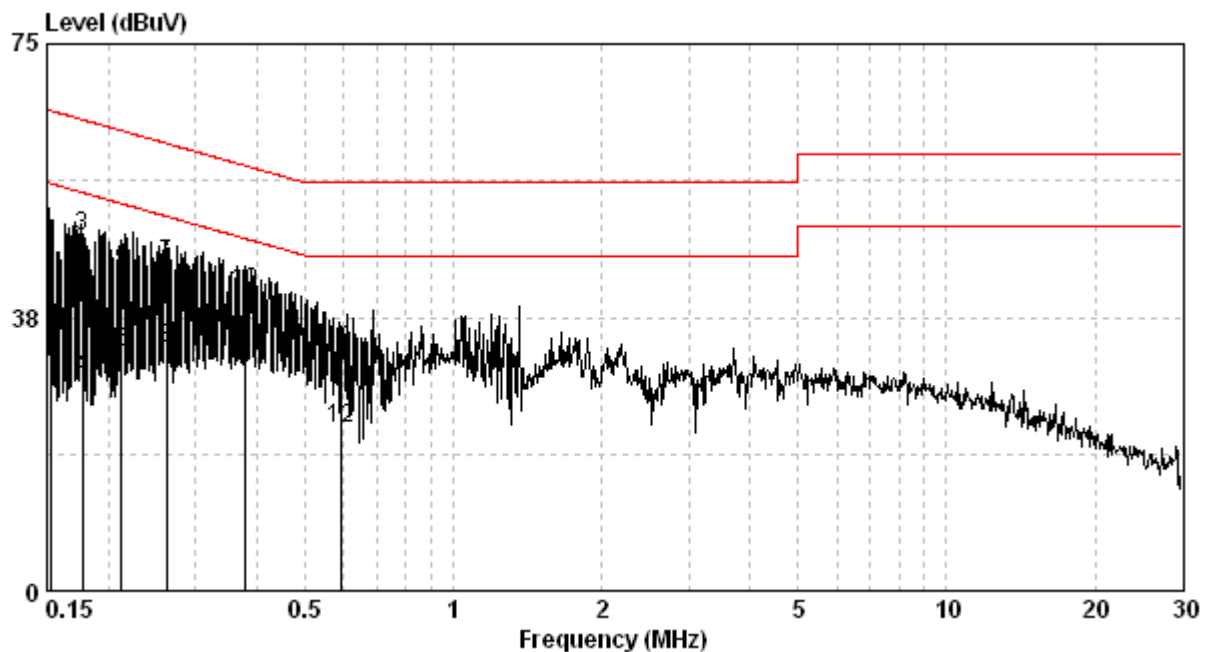
5.4 Conducted emission data FCC 15.207

Phase: Live Line
Model No.: PAD02
Test Condition: Light on high

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Margin (dB) Qp	Av
0.152	9.74	49.16	65.87	33.23	55.87	-16.71	-22.64
0.177	9.74	48.54	64.64	29.24	54.64	-16.10	-25.40
0.213	9.74	43.90	63.10	32.61	53.10	-19.19	-20.49
0.262	9.75	44.86	61.38	33.28	51.38	-16.52	-18.10
0.379	9.77	40.93	58.30	30.60	48.30	-17.37	-17.70
0.592	9.78	33.15	56.00	22.38	46.00	-22.85	-23.62

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)

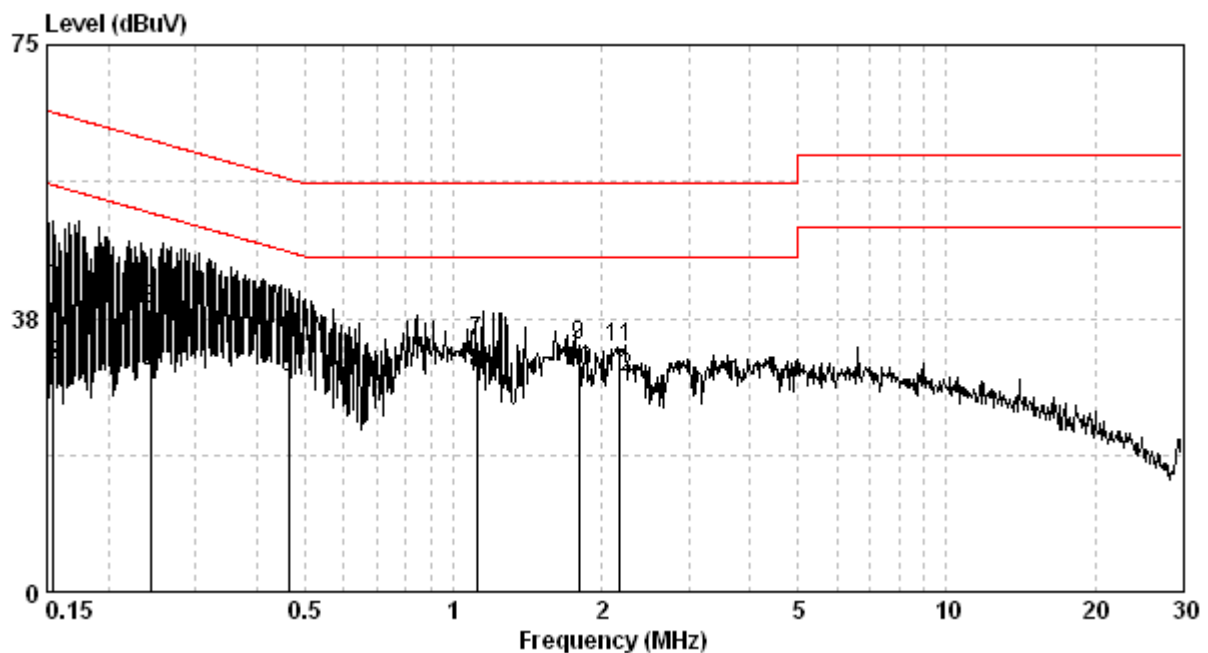


Phase: Neutral Line
Model No.: PAD02
Test Condition: Light on high

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Margin (dB)	
						Qp	Av
0.155	9.74	41.67	65.74	30.99	55.74	-24.07	-24.75
0.243	9.75	38.82	62.00	29.60	52.00	-23.18	-22.40
0.464	9.78	34.80	56.63	29.29	46.63	-21.83	-17.34
1.117	9.86	34.42	56.00	29.91	46.00	-21.58	-16.09
1.800	9.88	33.66	56.00	30.29	46.00	-22.34	-15.71
2.167	9.89	33.39	56.00	29.43	46.00	-22.61	-16.57

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



6. 20dB Bandwidth test

6.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1008 hPa
Test date: Dec. 23, 2016

6.2 Test setup & procedure

- Step 1: The 20dB bandwidth was measured using a 50 ohm spectrum analyzer
Step 2: The span range for the SA display shall be between two times and five times the OBW.
Step 3: The nominal IF filter bandwidth (3 dB RBW) should be approximately 1 % to 5 % of the OBW, unless otherwise specified, depending on the applicable requirement.
Step 4: The test was performed at 3 channels (lowest, middle and highest channel). The maximum 20dB modulation bandwidth is in the following Table.

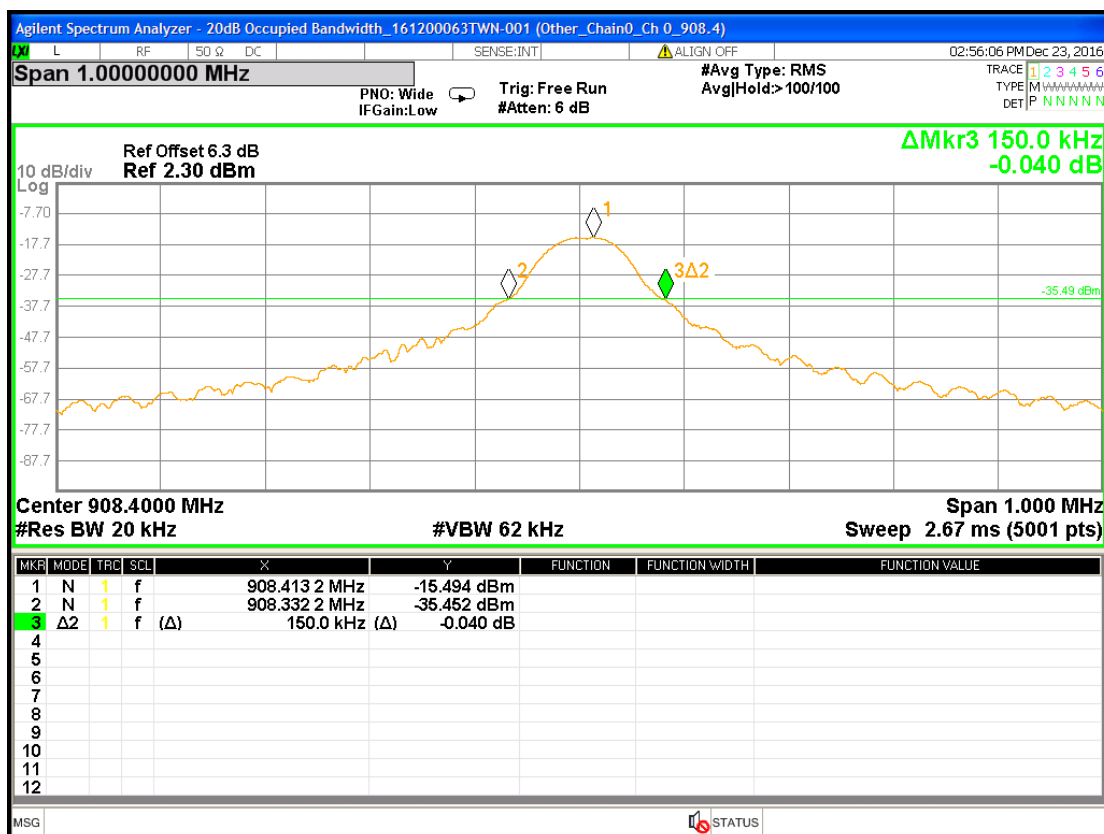
6.3 Measured data of modulated bandwidth test results

Model No.: PAD02

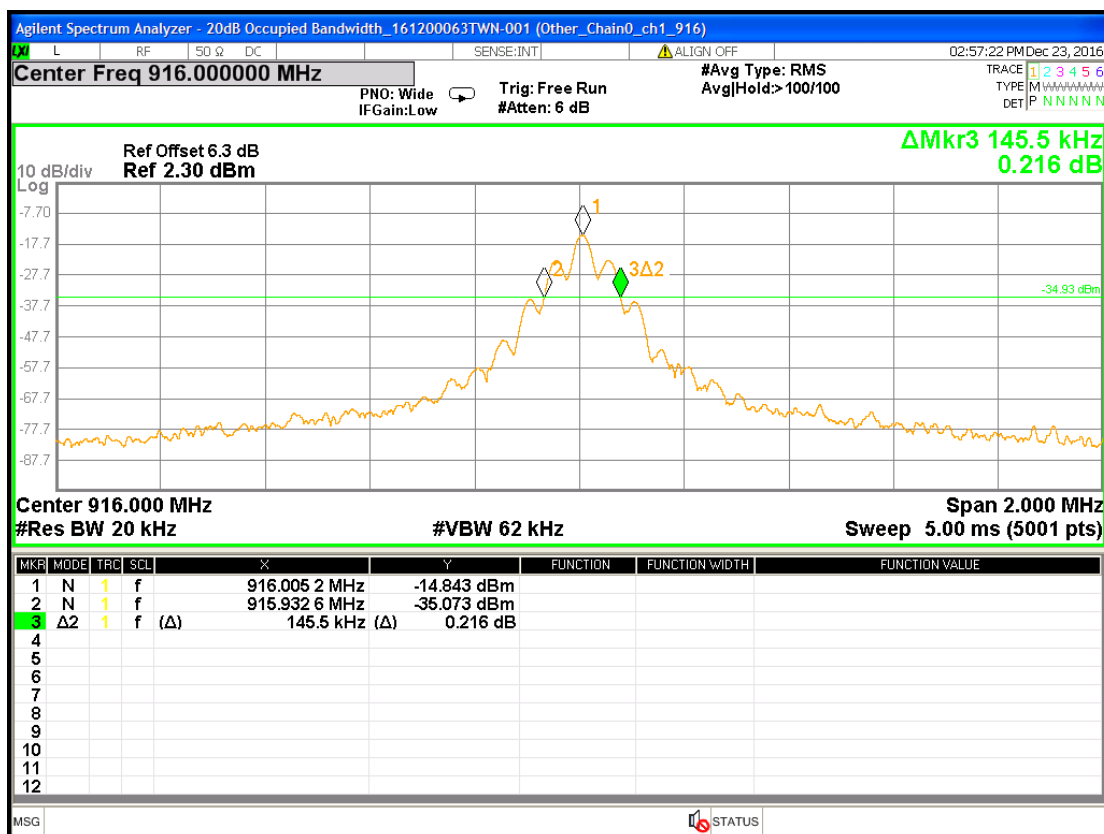
Mode	Frequency (MHz)	20dB Occupied Bandwidth (MHz)
Z-Wave	908.4	0.15
	916	0.1455

Please see the plot below.

Chain0 : 20dB Occupied Bandwidth @ 908.4MHz



Chain0 : 20dB Occupied Bandwidth @ 916MHz



Appendix A: Test equipment list

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
ESCI EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2016/11/30	2017/11/29
Spectrum Analyzer	Rohde & Schwarz	FSP30	100137	2016/08/16	2017/08/15
Horn Antenna (1-18G)	SHWARZBECK	BBHA 9120 D	9120D-456	2014/08/29	2017/08/27
Horn Antenna (14-42G)	SHWARZBECK	BBHA 9170	BBHA9170159	2014/09/16	2017/09/14
Broadband Antenna	SHWARZBECK	VULB 9168	9168-172	2016/03/22	2017/03/21
Pre-Amplifier	EMC Co.	EMC12635SE	980205	2016/10/08	2017/10/07
Pre-Amplifier	MITEQ	JS4-26004000--2 7-8A	828825	2016/09/12	2017/09/11
Power Meter	Anritsu	ML2495A	0844001	2016/11/09	2017/11/08
Power Sensor	Anritsu	MA2411B	0738452	2016/11/09	2017/11/08
Signal Analyzer	Agilent	N9030A	MY51380492	2016/09/13	2017/09/12
966-2(A) Cable 9kHz~26.5GHz	SUHNER	SMA / EX 100	N/A	2016/05/05	2017/05/04
966-2(B) Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 104P	CB0005	2016/05/04	2017/05/03
RF Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 102	CB0006	2016/05/05	2017/05/04
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2016/02/24	2017/02/22
High Pass Filter	Reactel	7HS-3G/18G-S11	N/A	2016/06/03	2017/06/02
Active Loop Antenna	SCHWARZBECK MESS-ELEKTRO NIC	FMZB1519	1519-067	2016/03/03	2017/03/02
Attenuator	PASTERNAK	N/A	PA7001-20	2016/05/06	2017/05/05
Attenuator	EMCI	N/A	AT-N0619	2016/05/06	2017/05/05

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
EMI Receiver	R&S	ESCI	100059	2016/11/21	2017/11/20
Two-Line V-Network	R&S	ENV216	101159	2016/06/02	2017/06/01
Artificial Mains Network (LISN)	SCHAFFNER	MN2050D	1586	2016/05/25	2017/05/24
CON-1 Shielded Room	N/A	N/A	N/A	NCR	NCR
CON-1 Cable	SUHNER	SUCOFLEX-104	26438414	2016/05/05	2017/05/04
Test software	Audix	e3	4.2004-1-12k	NCR	NCR

Note: No Calibration Required (NCR).

Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.14 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.22 dB
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.7 dB
Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.7 dB
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	3.53 dB
Emission on the Band Edge Test	3.64 dB
20dB Bandwidth	0.85 dB
AC Power Line Conducted Emission	2.47 dB