

# FCC PART 15.247 TEST REPORT

For

## Elanview Technology Co.,Ltd.

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FCC ID: 2AEKJ-CICADA

**Product Type:** Report Type: Amended Report Flying Camara Allen tian **Test Engineer:** Allen Tian Report Number: RKS151230001-00G **Report Date:** 2016-03-15 Jesse Hump Jesse Huang Reviewed By: EMC Manager Prepared By: Bay Area Compliance Laboratories Corp. (Kunshan) Chenghu Road, Kunshan Development Zone No.248, Kunshan, Jiangsu, China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn

**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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#### **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Date of Issue		
1	UL44220150408FCC002-1	Original Report	2015-05-18	
2	RKS151230001-00G	Amended Report	2016-03-15	

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#### Note:

This is an amended report application based on UL44220150408FCC002-1, the details as below

- 1. Changing the Module name from "Cicada" to "CICADA S".
- 2. Changing the One Video Chip from "NT96655" to "NT96660", It is just a video chip, not a radio chip. So it doesn't have high-power emission capability.
- 3. Add an appearance color, Show as below:



No other changes are made to them. The detail information, please check the reports.

Based on the above difference, it will affect nothing, so the test data and photos were copied from the original report UL44220150408FCC002-1 , FCC ID: 2AEKJ-CICADA that issued on 2015-05-18.

### FCC §15.203 - ANTENNA REQUIREMENT

#### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The EUT has a PCB antenna arrangement for wifi, which the antenna gain is 2 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

## **Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

#### **Measurement Uncertainty**

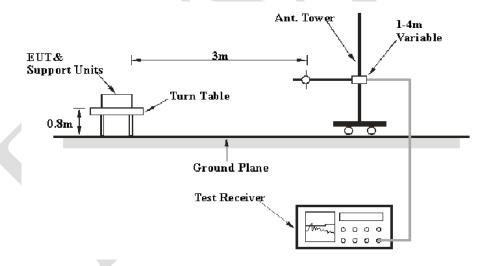
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

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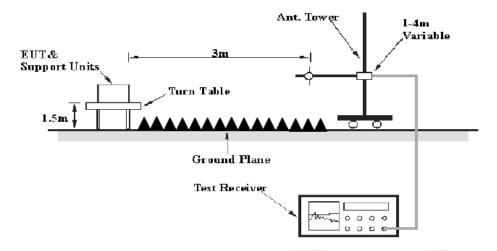
Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Kunshan) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

#### **EUT Setup**

#### **Below 1 GHz:**



#### Above 1GHz:



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The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The adapter was connected to a 120 VAC/60 Hz power source.

#### **EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 CUs	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrunent	Amplifier	330	171377	2015-09-16	2016-09-16
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2015-11-12	2016-11-11
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2015-11-07	2016-11-06
ETS	Horn Antenna	3115	6229	2015-11-07	2016-11-06
EMCO	Horn Antenna	3116	9510-2384	2015-11-07	2016-11-06
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2015-11-12	2016-11-11
Mini	Pre-amplifier	ZVA-183-S+	857001418	2015-09-16	2016-09-16
DUCOMMUN	Pre-amplifier	ALN-22093530-01	990147	2015-09-16	2016-09-16
champrotek	Chamber	Chamber A	1#	2015-09-17	2016-09-17
R&S	Auto test Software	EMC32	V 09.10.0	-	-
BACL	RF cable	KS-LAB-012	KS-LAB-012	2015-06-16	2016-12-15

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#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247</u>.

#### 0.97 dB at 648.040650 MHz in the Vertical polarization

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL,  $U_{(Lm)}$  is less than  $U_{\text{cispr}}$ , if  $L_{\text{m}}$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### **Test Data**

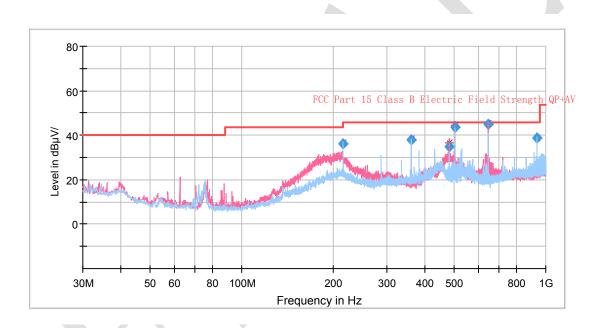
#### **Environmental Conditions**

Temperature:	25 ℃
Relative Humidity:	40 %
ATM Pressure:	101.0 kPa

The testing was performed by Allen Tian on 2016-03-07

#### **30MHz** ~ **1GHz**

The worst case was performed under 802.11b mode



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Frequency	Receiver		Turntable	Rx Antenna		Corrected Factor	Corrected	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	(dB)	Amplitude (dBμV/m)	Limit (dB \mu V/m)	Margin (dB)
216.017000	48.54	QP	288.0	200.0	Н	-12.3	36.24	46.00	9.76
360.014000	47.08	QP	269.0	100.0	Н	-9.0	38.08	46.00	7.92
480.021800	40.97	QP	227.0	100.0	V	-6.0	34.97	46.00	11.03
504.019650	49.04	QP	202.0	100.0	V	-5.3	43.74	46.00	2.26
648.040650	48.73	QP	348.0	100.0	V	-3.7	45.03	46.00	0.97
936.039150	39.04	QP	82.0	100.0	Н	-0.2	38.84	46.00	7.16

1 GHz-25 GHz

#### 802.11b Mode:

Frequency	R	eceiver	Turntable	Rx An	tenna	Corrected	Corrected	FCC I 15.247/20	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dB \mu V/m)	Margin (dB)
			Lo	w Channe	1 (2412 N	MHz)			
2412	96.14	PK	241.00	150.00	V	3.00	99.14	/	/
2412	92.14	Ave	241.00	150.00	V	3.00	95.14	/	/
2412	95.65	PK	162.00	150.00	Н	3.00	98.65	/	/
2412	91.25	Ave	162.00	150.00	Н	3.00	94.25	/	/
2369	33.75	PK	133.00	150.00	V	2.50	36.25	74.00	37.75
2369	24.37	Ave	133.00	150.00	V	2.50	26.87	54.00	27.13
2390	39.74	PK	219.00	200.00	V	2.90	42.64	74.00	31.36
2390	23.97	Ave	219.00	200.00	V	2.90	26.87	54.00	27.13
4824	38.51	PK	24.00	150.00	Н	13.80	52.31	74.00	21.69
4824	33.45	Ave	24.00	150.00	Н	13.80	47.25	54.00	6.75
6614	31.56	PK	89.00	200.00	V	18.80	50.36	74.00	23.64
6614	14.89	Ave	89.00	200.00	V	18.80	33.69	54.00	20.31
7236	31.89	PK	110.00	200.00	Н	18.80	50.69	74.00	23.31
7236	14.41	Ave	110.00	200.00	Н	18.80	33.21	54.00	20.79

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Frequency	R	Receiver		Rx An	tenna	Corrected	Corrected	FCC I 15.247/2	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Midd	lle Channe	el (2437 ]	MHz)			
2437	95.70	PK	231.00	150.00	V	3.00	98.70	/	/
2437	89.45	Ave	231.00	150.00	V	3.00	92.45	/	/
2437	94.34	PK	123.00	200.00	Н	3.00	97.34	/	/
2437	89.02	Ave	123.00	200.00	Н	3.00	92.02	/	/
1489	37.65	PK	130.00	150.00	V	0.00	37.65	74.00	36.35
1489	24.56	Ave	130.00	150.00	V	0.00	24.56	54.00	29.44
1690	42.43	PK	167.00	200.00	Н	0.70	43.13	74.00	30.87
1690	24.12	Ave	167.00	200.00	Н	0.70	24.82	54.00	29.18
4874	38.24	PK	10.00	150.00	V	13.90	52.14	74.00	21.86
4874	32.31	Ave	10.00	150.00	V	13.90	46.21	54.00	7.79
6671	29.45	PK	356.00	200.00	Н	18.80	48.25	74.00	25.75
6671	15.78	Ave	356.00	200.00	Н	18.80	34.58	54.00	19.42
7311	29.46	PK	237.00	150.00	Н	18.90	48.36	74.00	25.64
7311	14.27	Ave	237.00	150.00	Н	18.90	33.17	54.00	20.83

Frequency	Receiver		Turntable	Rx An	tenna	Corrected	Corrected	FCC 15.247/2	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			High	Channel	(2462 M	Hz)			
2462	94.87	PK	120.00	200.00	V	3.00	97.87	/	/
2462	92.33	Ave	120.00	200.00	V	3.00	95.33	/	/
2462	94.14	PK	180.00	100.00	Н	3.00	97.14	/	/
2462	87.23	Ave	180.00	100.00	Н	3.00	90.23	/	/
2483.5	51.16	PK	145.00	200.00	V	3.20	54.36	74.00	19.64
2483.5	37.80	Ave	145.00	200.00	V	3.20	41.00	54.00	13.00
2510	39.75	PK	330.00	200.00	V	4.20	43.95	74.00	30.05
1510	28.25	Ave	330.00	200.00	V	4.20	32.45	54.00	21.55
4924	44.41	PK	67.00	200.00	Н	14.00	58.41	74.00	15.59
4924	31.25	Ave	67.00	200.00	Н	14.00	45.25	54.00	8.75
6679	34.55	PK	123.00	100.00	Н	18.80	53.35	74.00	20.65
6679	16.84	Ave	123.00	100.00	Н	18.80	35.64	54.00	18.36
7386	29.76	PK	290.00	200.00	Н	19.80	49.56	74.00	24.44
7386	14.12	Ave	290.00	200.00	Н	19.80	33.92	54.00	20.08

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## 802.11g Mode:

Frequency	Receiver		Turntable	Rx An	tenna	Corrected	Corrected	FCC I 15.247/20	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			Lo	w Channe	1 (2412 N	MHz)			
2412	93.87	PK	110.0	200.00	V	3.00	96.87	/	/
2412	89.54	Ave	110.0	200.00	V	3.00	92.54	/	/
2412	92.45	PK	40.0	200.00	Н	3.00	95.45	/	/
2412	89.11	Ave	40.0	200.00	Н	3.00	92.11	/	/
2369	34.06	PK	177.0	200.00	V	2.50	36.56	74.00	37.44
2369	19.65	Ave	177.0	200.00	V	2.50	22.15	54.00	31.85
2390	37.45	PK	65.0	200.00	Н	2.90	40.35	74.00	33.65
2390	18.56	Ave	65.0	200.00	Н	2.90	21.46	54.00	32.54
4824	35.20	PK	91.0	200.00	Н	13.80	49.00	74.00	25.00
4824	32.77	Ave	91.0	200.00	Н	13.80	46.57	54.00	7.43
6670	31.37	PK	230.0	150.00	V	18.80	50.17	74.00	23.83
6670	17.44	Ave	230.0	150.00	V	18.80	36.24	54.00	17.76
7236	28.64	PK	170.0	200.00	Н	18.80	47.44	74.00	26.56
7236	16.41	Ave	170.0	200.00	Н	18.80	35.21	54.00	18.79

PK

Ave

194.0

194.0

200.00

200.00

Н

Н

18.90

18.90

47.31

38.22

74.00

54.00

26.69

15.78

7311

7311

28.41

19.32

Frequency	Receiver		Turntable	Rx An	tenna	Corrected	Corrected		FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
			Mid	dle Chann	el (2437	MHz)				
2437	93.87	PK	120.0	200.00	V	3.00	96.87	/	/	
2437	88.02	Ave	120.0	200.00	V	3.00	91.02	/	/	
2437	92.43	PK	60.0	200.00	Н	3.00	95.43	/	/	
2437	87.55	Ave	60.0	200.00	Н	3.00	90.55	/	/	
1490	39.13	PK	190.0	200.00	V	0.00	39.13	74.00	34.87	
1490	21.67	Ave	190.0	200.00	V	0.00	21.67	54.00	32.33	
1589	40.68	PK	80.0	200.00	Н	0.70	41.38	74.00	32.62	
1589	26.39	Ave	80.0	200.00	Н	0.70	27.09	54.00	26.91	
4874	40.30	PK	0.0	200.00	V	13.90	54.20	74.00	19.80	
4874	33.64	Ave	0.0	200.00	V	13.90	47.54	54.00	6.46	
6650	31.65	PK	310.0	150.00	Н	18.80	50.45	74.00	23.55	
6650	18.86	Ave	310.0	150.00	Н	18.80	37.66	54.00	16.34	

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Frequency	Receiver		Turntable	Rx An	tenna	Corrected	Corrected		FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)	
			Hig	gh Channe	d (2462 l	MHz)				
2462	93.31	PK	96.0	200.0	V	3.00	96.31	/	/	
2462	89.47	Ave	96.0	200.0	V	3.00	92.47	/	/	
2462	92.77	PK	36.0	150.0	Н	3.00	95.77	/	/	
2462	88.41	Ave	36.0	150.0	Н	3.00	91.41	/	/	
2483.5	50.96	PK	166.0	150.0	V	3.20	54.16	74.00	19.84	
2483.5	41.72	Ave	166.0	150.0	V	3.20	44.92	54.00	9.08	
2620	38.25	PK	60.0	150.0	Н	4.20	42.45	74.00	31.55	
2620	26.73	Ave	60.0	150.0	Н	4.20	30.93	54.00	23.07	
4924	41.74	PK	20.0	200.0	V	14.00	55.74	74.00	18.26	
4924	33.55	Ave	20.0	200.0	V	14.00	47.55	54.00	6.45	
6622	31.65	PK	286.0	200.0	Н	18.70	50.35	74.00	23.65	
6622	18.71	Ave	286.0	200.0	Н	18.70	37.41	54.00	16.59	
7386	27.83	PK	170.0	200.0	V	19.80	47.63	74.00	26.37	
7386	16.76	Ave	170.0	200.0	V	19.80	36.56	54.00	17.44	

### 802.11n-HT20 Mode:

Frequency	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Lo	w Channe	l (2412 l	MHz)			
2412	93.77	PK	160.0	200.00	V	3.00	96.77	/	/
2412	89.54	Ave	160.0	200.00	V	3.00	92.54	/	/
2412	92.89	PK	89.0	200.00	Н	3.00	95.89	/	/
2412	88.57	Ave	89.0	200.00	Н	3.00	91.57	/	/
2373	30.34	PK	290.0	150.00	Н	2.90	33.24	74.00	40.76
2373	21.77	Ave	290.0	150.00	Н	2.90	24.67	54.00	29.33
2390	40.35	PK	119.0	150.00	V	2.90	43.25	74.00	30.75
2390	21.04	Ave	119.0	150.00	V	2.90	23.94	54.00	30.06
4824	27.76	PK	61.0	200.00	Н	13.80	41.56	74.00	32.44
4824	32.45	Ave	61.0	200.00	Н	13.80	46.25	54.00	7.75
6650	29.76	PK	322.0	150.00	V	18.80	48.56	74.00	25.44
6650	17.02	Ave	322.0	150.00	V	18.80	35.82	54.00	18.18
7236	32.56	PK	188.0	200.00	Н	18.80	51.36	74.00	22.64
7236	15.71	Ave	188.0	200.00	Н	18.80	34.51	54.00	19.49

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Frequency	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Mid	dle Chann	el (2437	MHz)			
2437	93.78	PK	150.0	200.00	V	3.00	96.78	/	/
2437	88.89	Ave	150.0	200.00	V	3.00	91.89	/	/
2437	92.74	PK	90.0	200.00	Н	3.00	95.74	/	/
2437	88.20	Ave	90.0	200.00	Н	3.00	91.20	/	/
1550	35.47	PK	220.0	200.00	V	0.00	35.47	74.00	38.53
1550	25.11	Ave	220.0	200.00	V	0.00	25.11	54.00	28.89
2283	37.77	PK	110.0	200.00	Н	0.70	38.47	74.00	35.53
2283	25.74	Ave	110.0	200.00	Н	0.70	26.44	54.00	27.56
4874	37.64	PK	30.0	200.00	V	13.90	51.54	74.00	22.46
4874	31.31	Ave	30.0	200.00	V	13.90	45.21	54.00	8.79
6649	31.42	PK	340.0	150.00	Н	18.80	50.22	74.00	23.78
6649	16.46	Ave	340.0	150.00	Н	18.80	35.26	54.00	18.74
7311	26.42	PK	224.0	150.00	Н	18.90	45.32	74.00	28.68
7311	12.68	Ave	224.0	150.00	Н	18.90	31.58	54.00	22.42

Frequency (MHz)	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Hig	gh Channe	el (2462 l	MHz)			
2462	91.50	PK	126.0	200.0	V	3.00	94.50	/	/
2462	87.25	Ave	126.0	200.0	V	3.00	90.25	/	/
2462	91.23	PK	90.0	150.0	Н	3.00	94.23	/	/
2462	87.01	Ave	90.0	150.0	Н	3.00	90.01	/	/
2483.5	51.13	PK	180.0	150.0	V	3.20	54.33	74.00	19.67
2483.5	38.82	Ave	180.0	150.0	V	3.20	42.02	54.00	11.98
2490	37.16	PK	90.0	150.0	Н	4.20	41.36	74.00	32.64
2490	20.94	Ave	90.0	150.0	Н	4.20	25.14	54.00	28.86
4924	41.24	PK	230.0	200.0	V	14.00	55.24	74.00	18.76
4924	31.23	Ave	230.0	200.0	V	14.00	45.23	54.00	8.77
6647	29.86	PK	289.0	150.0	Н	18.70	48.56	74.00	25.44
6647	16.99	Ave	289.0	150.0	Н	18.70	35.69	54.00	18.31
7386	25.89	PK	188.0	200.0	V	19.80	45.69	74.00	28.31
7386	12.78	Ave	188.0	200.0	V	19.80	32.58	54.00	21.42

Report No.: RKS151230001-00G

#### 802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			Lo	w Channe	1 (2422 N	MHz)			
2422	93.57	PK	154.0	200.00	V	3.00	96.57	/	/
2422	89.47	Ave	154.0	200.00	V	3.00	92.47	/	/
2422	93.11	PK	100.0	200.00	Н	3.00	96.11	/	/
2422	89.20	Ave	100.0	200.00	Н	3.00	92.20	/	/
2359	29.64	PK	250.0	150.00	Н	2.90	32.54	74.00	41.46
2359	22.42	Ave	250.0	150.00	Н	2.90	25.32	54.00	28.68
2390	38.79	PK	168.0	150.00	V	2.90	41.69	74.00	32.31
2390	20.12	Ave	168.0	150.00	V	2.90	23.02	54.00	30.98
4824	36.56	PK	330.0	200.00	Н	13.80	50.36	74.00	23.64
4824	31.09	Ave	330.0	200.00	Н	13.80	44.89	54.00	9.11
6675	27.08	PK	128.0	150.00	V	18.80	45.88	74.00	28.12
6675	15.85	Ave	128.0	150.00	V	18.80	34.65	54.00	19.35
7236	28.45	PK	215.0	200.00	Н	18.80	47.25	74.00	26.75
7236	12.79	Ave	215.0	200.00	Н	18.80	31.59	54.00	22.41

Ave

Frequency (MHz)	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
			Mid	dle Chann	el (2437	MHz)			
2437	93.26	PK	175.0	200.00	V	3.00	96.26	/	/
2437	89.14	Ave	175.0	200.00	V	3.00	92.14	/	/
2437	92.87	PK	82.0	200.00	Н	3.00	95.87	/	/
2437	88.89	Ave	82.0	200.00	Н	3.00	91.89	/	/
1554	34.25	PK	154.0	150.00	V	0.00	34.25	74.00	39.75
1554	23.58	Ave	154.0	150.00	V	0.00	23.58	54.00	30.42
2290	36.54	PK	120.0	200.00	Н	0.70	37.24	74.00	36.76
2290	27.61	Ave	120.0	200.00	Н	0.70	28.31	54.00	25.69
4874	36.57	PK	49.0	200.00	V	13.90	50.47	74.00	23.53
4874	31.46	Ave	49.0	200.00	V	13.90	45.36	54.00	8.64
6649	29.44	PK	336.0	150.00	Н	18.80	48.24	74.00	25.76
6649	14.89	Ave	336.0	150.00	Н	18.80	33.69	54.00	20.31
7311	27.97	PK	246.0	150.00	Н	18.90	46.87	74.00	27.13

150.00 H

18.90

30.58

54.00

23.42

Report No.: RKS151230001-00G

Frequency	Receiver		Turntable	Rx Antenna		Corrected	Corrected	FCC Part 15.247/205/209	
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (cm)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Hig	h Channe	1 (2452 N	MHz)			
2452	91.08	PK	126.0	200.0	V	3.00	94.08	/	/
2452	83.24	Ave	126.0	200.0	V	3.00	86.24	/	/
2452	90.89	PK	90.0	150.0	Н	3.00	93.89	/	/
2452	83.11	Ave	90.0	150.0	Н	3.00	86.11	/	/
2483.5	50.01	PK	180.0	150.0	V	3.20	53.21	74.00	20.79
2483.5	38.01	Ave	180.0	150.0	V	3.20	41.21	54.00	12.79
2490	34.27	PK	90.0	150.0	Н	4.20	38.47	74.00	35.53
2490	21.02	Ave	90.0	150.0	Н	4.20	25.22	54.00	28.78
4904	38.39	PK	230.0	200.0	V	14.00	52.39	74.00	21.61
4904	31.69	Ave	230.0	200.0	V	14.00	45.69	54.00	8.31
6658	26.66	PK	289.0	150.0	Н	18.70	45.36	74.00	28.64
6658	16.27	Ave	289.0	150.0	Н	18.70	34.97	54.00	19.03
7356	24.41	PK	188.0	200.0	V	19.80	44.21	74.00	29.79
7356	10.67	Ave	188.0	200.0	V	19.80	30.47	54.00	23.53

#### Note:

7311

11.68

Correction Factor=Antenna factor (RX) + cable loss – amplifier factor
Margin = Limit - Limit – Corrected Amplitude

246.0