

FCC PART 15.247 TEST REPORT

For

Zound Industries

TORSGATAN 2, 111 23 STOCKHOLM, SWEDEN

FCC ID: 2AAGF-HELLAS

Report Type:		Product Type:	
Original Report		Hellas	
Test Engineer:	David Lee	David	lee
Report Number:	RSZ150714002	2-00CA1	
Report Date:	2015-09-25		
Report Date.			
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

TABLE OF CONTENTS

Report No.: RSZ150714002-00CA1

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION	4
DESCRIPTION OF TEST CONFIGURATION	4
EUT Exercise Software	4
SPECIAL ACCESSORIES	4
EQUIPMENT MODIFICATIONS	
SUPPORT EQUIPMENT LIST AND DETAILS	4
External I/O Cable	
BLOCK DIAGRAM OF TEST SETUP	5
SUMMARY OF TEST RESULTS	6
FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE	7
APPLICABLE STANDARD	
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	8
APPLICABLE STANDARD	8
MEASUREMENT UNCERTAINTY	8
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
CORRECTED FACTOR & MARGIN CALCULATION	
TEST RESULTS SUMMARY	
TEST DATA	10
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS	13
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	13
EUT SETUP	
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST RESULTS SUMMARY	

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Zound Industries*'s product, model number: *Hellas (FCC ID: 2AAGF-HELLAS)* or the "EUT" in this report was a *Hellas*, which was measured approximately: 17.3 cm (L) x 18.4 cm (W) x 6.4 cm (H), rated with input voltage: DC 3.7 V Li-ion battery.

Report No.: RSZ150714002-00CA1

*All measurement and test data in this report was gathered from production sample serial number: 1505716 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2015-07-14.

Objective

This report is prepared on behalf of *Zound Industries* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS submissions with FCC ID: 2AAGF-HELLAS

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with RF radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on October 31, 2013. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 15.247 Page 3 of 17

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was controlled by the test software.

EUT Exercise Software

CSR BlueSuite 2.5.0 software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
BULL	Socket	GN-415K	5503290068073
MINGXIN	Adapter	MX12W6	N/A

Report No.: RSZ150714002-00CA1

External I/O Cable

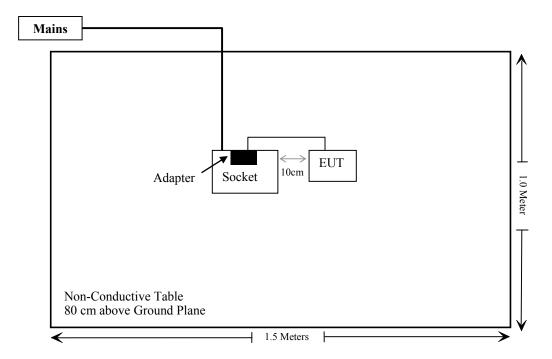
Cable Description	Length (m)	From/Port	То
Un-shielding Un-detachable AC Cable	1.0	Socket	Mains
Shielding Detachable USB Cable	1.5	Adapter	EUT

FCC Part 15.247 Page 4 of 17

Block Diagram of Test Setup

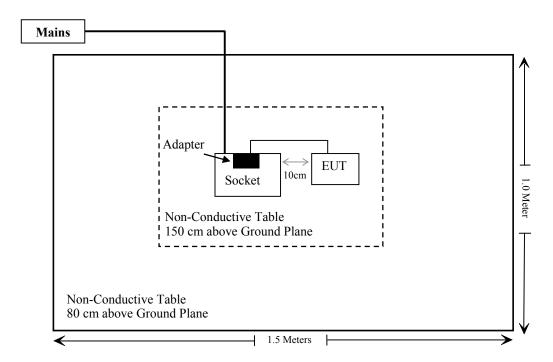
For radiated emission

Below 1G:



Report No.: RSZ150714002-00CA1

Above 1G:



FCC Part 15.247 Page 5 of 17

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance*
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance*
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance*
§15.247(b)(3)	Maximum Conducted Output Power	Compliance*
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance*
§15.247(e)	Power Spectral Density	Compliance*

Report No.: RSZ150714002-00CA1

Compliance*: The EUT (Model: Hellas, FCC ID: 2AAGF-HELLAS) have the same Bluetooth module as the model: Plattan ADV Wireless, FCC ID: 2AAGF-PLATTANBT. All RF characteristic have not been changed, so the test data are referred to FCC ID: 2AAGF-PLATTANBT granted on 2015-04-23, report No.: RSZ150206011-00C, which was tested by Bay Area Compliance Laboratories Corp. (Shenzhen).

FCC Part 15.247 Page 6 of 17

FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Report No.: RSZ150714002-00CA1

According to KDB 447498 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

For worst case: The Max Peak Output Power: 5.96dBm=3.94mW $(3.94/5)*\sqrt{2.440}=1.23<3.0$

Result: No SAR test is required

FCC Part 15.247 Page 7 of 17

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

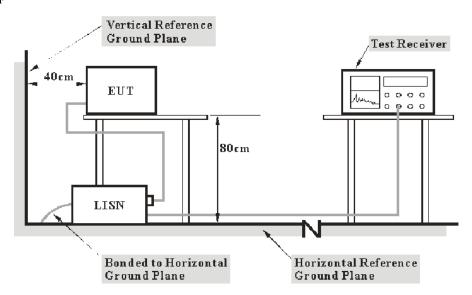
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Report No.: RSZ150714002-00CA1

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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

FCC Part 15.247 Page 8 of 17

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

Report No.: RSZ150714002-00CA1

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2015-06-03	2016-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2015-06-09	2016-06-09
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2015-05-14	2016-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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

Margin = Limit – Corrected Amplitude

FCC Part 15.247 Page 9 of 17

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.207</u>, the worst margin reading as below:

Report No.: RSZ150714002-00CA1

21.0 dB at 9.168570 MHz and 9.189110 MHz in the Neutral conducted mode

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

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

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

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by David Lee on 2015-09-24.

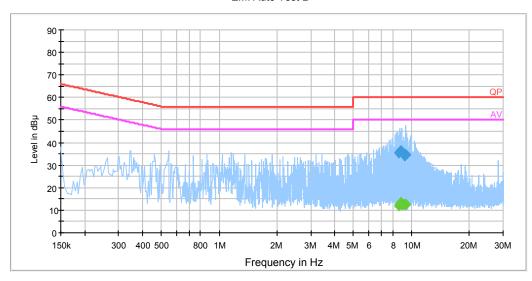
EUT operation mode: Charging & Transmitting

FCC Part 15.247 Page 10 of 17

AC 120V/60 Hz, Line

EMI Auto Test L

Report No.: RSZ150714002-00CA1



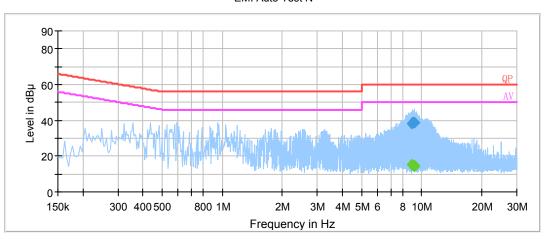
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
8.619950	35.3	20.1	60.0	24.7	QP
8.619950	12.3	20.1	50.0	37.7	Ave.
8.814750	36.5	20.1	60.0	23.5	QP
8.814750	13.4	20.1	50.0	36.6	Ave.
8.939690	35.8	20.1	60.0	24.2	QP
8.939690	12.6	20.1	50.0	37.4	Ave.
8.985010	35.7	20.1	60.0	24.3	QP
8.985010	12.7	20.1	50.0	37.3	Ave.
9.226710	34.3	20.1	60.0	25.7	QP
9.226710	12.5	20.1	50.0	37.5	Ave.
9.361570	34.5	20.1	60.0	25.5	QP
9.361570	12.6	20.1	50.0	37.4	Ave.

FCC Part 15.247 Page 11 of 17

AC 120V/60 Hz, Neutral

EMI Auto Test N

Report No.: RSZ150714002-00CA1



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
8.934190	38.3	20.1	60.0	21.7	QP
8.934190	15.3	20.1	50.0	34.7	Ave.
9.027390	38.8	20.1	60.0	21.2	QP
9.027390	15.0	20.1	50.0	35.0	Ave.
9.063210	38.9	20.1	60.0	21.1	QP
9.063210	14.8	20.1	50.0	35.2	Ave.
9.101770	38.9	20.1	60.0	21.1	QP
9.101770	14.9	20.1	50.0	35.1	Ave.
9.168570	39.0	20.1	60.0	21.0	QP
9.168570	14.6	20.1	50.0	35.4	Ave.
9.189110	39.0	20.1	60.0	21.0	QP
9.189110	14.4	20.1	50.0	35.6	Ave.

1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation

FCC Part 15.247 Page 12 of 17

²⁾ Corrected Amplitude = Reading + Correction Factor
3) Margin = Limit – Corrected Amplitude

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

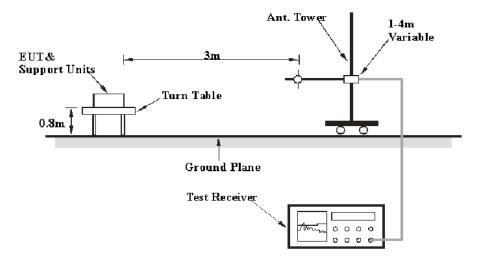
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

Report No.: RSZ150714002-00CA1

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) 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

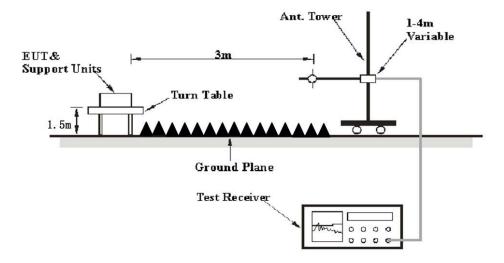
EUT Setup

Below 1 GHz:



FCC Part 15.247 Page 13 of 17

Above 1GHz:



Report No.: RSZ150714002-00CA1

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 GHz	1MHz	3 MHz	/	PK
Above I 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.

FCC Part 15.247 Page 14 of 17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2016-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2015-04-23	2016-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2013-02-11	2016-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-12-11	2015-12-11
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2014-07-22	2015-07-22
DUCOMMUN	Pre-amplifier	ALN- 22093530-01	991373-01	2014-08-03	2015-08-03
R&S	Auto test Software	EMC32	V9.10	NCR	NCR

Report No.: RSZ150714002-00CA1

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>

8.22 dB at 9920.00 MHz in the Vertical polarization for High channel

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_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

FCC Part 15.247 Page 15 of 17

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) 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:	26 ℃		
Relative Humidity:	49 %		
ATM Pressure:	100.1 kPa		

The testing was performed by David Lee on 2015-07-21.

 $EUT\ operation\ mode:\ Charging\ /\ Transmitting$

30 MHz-25 GHz:

	Receiver		Turntable	Rx Antenna			Corrected	FCC Part 15.247/205/209		
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
Low Channel (2402 MHz)										
174.1	33.50	QP	339	1.1	V	-14.8	18.70	43.5	24.80	
2402.00	84.65	PK	139	2.1	Н	4.97	89.62	/	/	
2402.00	73.75	Ave.	139	2.1	Н	4.97	78.72	/	/	
2402.00	84.31	PK	24	2.5	V	4.97	89.28	/	/	
2402.00	73.04	Ave.	24	2.5	V	4.97	78.01	/	/	
2388.08	37.63	PK	60	2.1	Н	4.97	42.60	74	31.40	
2388.08	24.29	Ave.	60	2.1	Н	4.97	29.26	54	24.74	
2496.28	39.95	PK	210	1.4	Н	6.29	46.24	74	27.76	
2496.28	20.52	Ave.	210	1.4	Н	6.29	26.81	54	27.19	
4804.00	37.02	PK	163	1.6	Н	16.92	53.94	74	20.06	
4804.00	22.39	Ave.	163	1.6	Н	16.92	39.31	54	14.69	
7206.00	36.33	PK	285	1.5	Н	19.08	55.41	74	18.59	
7206.00	21.27	Ave.	285	1.5	Н	19.08	40.35	54	13.65	
9608.00	36.24	PK	153	1.9	Н	22.72	58.96	74	15.04	
9608.00	21.77	Ave.	153	1.9	Н	22.72	44.49	54	9.51	

Report No.: RSZ150714002-00CA1

FCC Part 15.247 Page 16 of 17

Frequency (MHz)	Receiver		Turntable	Rx Antenna			Corrected	FCC Part 15.247/205/209		
	Reading (dBµV)	Detector (PK/QP/Ave.)	Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)	
Middle Channel (2440 MHz)										
174.1	33.92	QP	171	1.4	V	-14.8	19.12	43.5	24.38	
2440.00	84.49	PK	186	2.2	Н	4.97	89.46	/	/	
2440.00	73.16	Ave.	186	2.2	Н	4.97	78.13	/	/	
2440.00	84.35	PK	13	1.8	V	4.97	89.32	/	/	
2440.00	73.38	Ave.	13	1.8	V	4.97	78.35	/	/	
2388.85	36.87	PK	329	2.0	Н	4.97	41.84	74	32.16	
2388.85	23.56	Ave.	329	2.0	Н	4.97	28.53	54	25.47	
2495.37	39.31	PK	131	1.3	Н	6.29	45.60	74	28.40	
2495.37	20.52	Ave.	131	1.3	Н	6.29	26.81	54	27.19	
4880.00	36.90	PK	250	1.3	Н	16.91	53.81	74	20.19	
4880.00	21.98	Ave.	250	1.3	Н	16.91	38.89	54	15.11	
7320.00	36.88	PK	42	1.3	V	19.40	56.28	74	17.72	
7320.00	22.02	Ave.	42	1.3	V	19.40	41.42	54	12.58	
9760.00	34.68	PK	320	2.1	Н	23.79	58.47	74	15.53	
9760.00	20.93	Ave.	320	2.1	Н	23.79	44.72	54	9.28	
			High Ch	annel (2	2480 M	Hz)				
174.1	34.41	QP	202	2.4	V	-14.8	19.61	43.5	23.89	
2480.00	84.51	PK	308	2.4	Н	6.29	90.80	/	/	
2480.00	73.09	Ave.	308	2.4	Н	6.29	79.38	/	/	
2480.00	84.96	PK	99	1.5	V	6.29	91.25	/	/	
2480.00	73.62	Ave.	99	1.5	V	6.29	79.91	/	/	
2380.70	38.04	PK	306	1.2	Н	4.97	43.01	74	30.99	
2380.70	22.34	Ave.	306	1.2	Н	4.97	27.31	54	26.69	
2498.04	39.90	PK	211	1.1	Н	6.29	46.19	74	27.81	
2498.04	20.52	Ave.	211	1.1	Н	6.29	26.81	54	27.19	
4960.00	37.12	PK	35	1.0	Н	17.91	55.03	74	18.97	
4960.00	22.72	Ave.	35	1.0	Н	17.91	40.63	54	13.37	
7440.00	36.11	PK	188	2.1	Н	18.34	54.45	74	19.55	
7440.00	20.44	Ave.	188	2.1	Н	18.34	38.78	54	15.22	
9920.00	36.37	PK	33	1.9	V	23.79	60.16	74	13.84	
9920.00	21.99	Ave.	33	1.9	V	23.79	45.78	54	8.22	

Report No.: RSZ150714002-00CA1

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

***** END OF REPORT *****

FCC Part 15.247 Page 17 of 17