

Certification Test Report

**FCC ID: X32-RHKFO
IC: 8797A-RHKFO**

**FCC Rule Part: 15.231
IC Radio Standards Specification: RSS-210**

ACS Report Number: 15-0001.W06.1A

Manufacturer: iKeyless, LLC
Model: 300-0271

Test Begin Date: December 22, 2014
Test End Date: January 30, 2015

Report Issue Date: February 5, 2015



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

A handwritten signature in black ink, appearing to read "Kirby Munroe", is placed over a horizontal line.

Prepared by: _____
Kirby Munroe
Director, Wireless Certifications
ACS, Inc.

This test report shall not be reproduced except in full. This report may be reproduced in part with prior written consent of ACS, Inc. The results contained in this report are representative of the sample(s) submitted for evaluation.

This report contains 21 pages

TABLE OF CONTENTS

1	GENERAL	3
1.1	PURPOSE.....	3
1.2	PRODUCT DESCRIPTION	3
1.3	TEST METHODOLOGY AND CONSIDERATIONS.....	3
2	TEST FACILITIES.....	4
2.1	LOCATION	4
2.2	LABORATORY ACCREDITATIONS/RECOGNITIONS/CERTIFICATIONS.....	4
2.3	RADIATED EMISSIONS TEST SITE DESCRIPTION	5
2.3.1	<i>Semi-Anechoic Chamber Test Site</i>	5
2.3.2	<i>Open Area Tests Site (OATS)</i>	6
2.4	CONDUCTED EMISSIONS TEST SITE DESCRIPTION	7
3	APPLICABLE STANDARD REFERENCES	7
4	LIST OF TEST EQUIPMENT.....	8
5	SUPPORT EQUIPMENT	9
6	EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM	9
7	SUMMARY OF TESTS.....	10
7.1	ANTENNA REQUIREMENT – FCC: CFR 47 PART 15.203	10
7.2	POWER LINE CONDUCTED EMISSIONS – FCC: CFR 47 PART 15.207/ IC: RSS-GEN 8.8	10
7.2.1	<i>Measurement Procedure</i>	10
7.3	PERIODIC OPERATION – FCC: CFR 47 15.231(A) / IC: RSS-210 A1.1.1	10
7.3.1	<i>Test Methodology</i>	10
7.3.2	<i>Test Results</i>	10
7.4	OCCUPIED BANDWIDTH – FCC: CFR 47 15.231(C)(1) / IC: RSS-210 A1.1.3.....	12
7.4.1	<i>Test Methodology</i>	12
7.4.2	<i>Test Results</i>	12
7.5	RADIATED EMISSIONS – FCC: CFR 47 15.231(B) / IC: RSS-210 A1.1.2	14
7.5.1	<i>Test Methodology</i>	14
7.5.2	<i>Duty Cycle Correction.....</i>	14
7.5.3	<i>Test Results.....</i>	18
7.5.4	<i>Sample Calculation:</i>	20
8	CONCLUSION	20

1 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Industry Canada's Radio Standards Specification RSS-210.

1.2 Product description

The 300-0271 is an aftermarket replacement remote for the keyless entry systems of automobiles. The remote features a plastic shell with a rubber insert, user buttons, a microcontroller with integrated transmitter, key blade, and a CR2032 battery. Under normal operation, when a user presses one of the buttons, a keyless entry signal is transmitted as an ASK modulation of a 315MHz carrier. The keyless entry signal consists of packets of data that may include serial numbers, function codes, checksums, and authentication codes.

Frequency Range: 315 MHz

Operating channels: 1

Modulation: ASK (OOK)

Operating Voltage: 3 VDC (CR1632 Battery)

Antenna Type / Gain: Loop / -5.6 dBi

Manufacturer Information:

iKeyless, LLC

828 E Market St

Louisville, KY 40206

Test Sample Serial Number(s): ACS#9

Test Sample Condition: The test sample was provided in working order with no visible defects.

1.3 Test Methodology and Considerations

The EUT is a stand-alone handheld device and was tested in (3) orientations which represent normal intended operation.

The EUT is a battery powered device; therefore AC power line conducted emissions was not performed.

2 TEST FACILITIES

2.1 Location

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions
5015 B.U. Bowman Drive
Buford, GA 30518
Phone: (770) 831-8048
Fax: (770) 831-8598

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by the National Institute of Standards and Technology under their National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 200612-0. Unless otherwise specified, all tests methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

The Semi-Anechoic Chamber Test Site, Open Area Test Site (OATS) and Conducted Emissions Site have been fully described, submitted to, and accepted by the FCC, Industry Canada and the Japanese Voluntary Control Council for Interference by information technology equipment.

FCC Registration Number: 511277

Industry Canada Lab Code: IC 4175A

VCCI Member Number: 1831

- VCCI OATS Registration Number R-1526
- VCCI Conducted Emissions Site Registration Number: C-1608

2.3 Radiated Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The Semi-Anechoic Chamber Test Site consists of a 20' x 30' x 18' shielded enclosure. The chamber is lined with Toyo Ferrite Grid Absorber, model number FFG-1000. The ferrite tile grid is 101 x 101 x 19mm thick and weighs approximately 550 grams. These tiles are mounted on steel panels and installed directly on the inner walls of the chamber.

The turntable is 150cm in diameter and is located 160cm from the back wall of the chamber. The chamber is grounded via 1 - 8' copper ground rod, installed at the center of the back wall, it is bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is all steel, flush mounted table installed in an all steel frame. The table is remotely operated from inside the control room located 25' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Behind the turntable is a 3' x 6' x 4' deep shielded pit used for support equipment if necessary. The pit is equipped with 1 - 4" PVC chases from the turntable to the pit that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit.

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3-1 below:

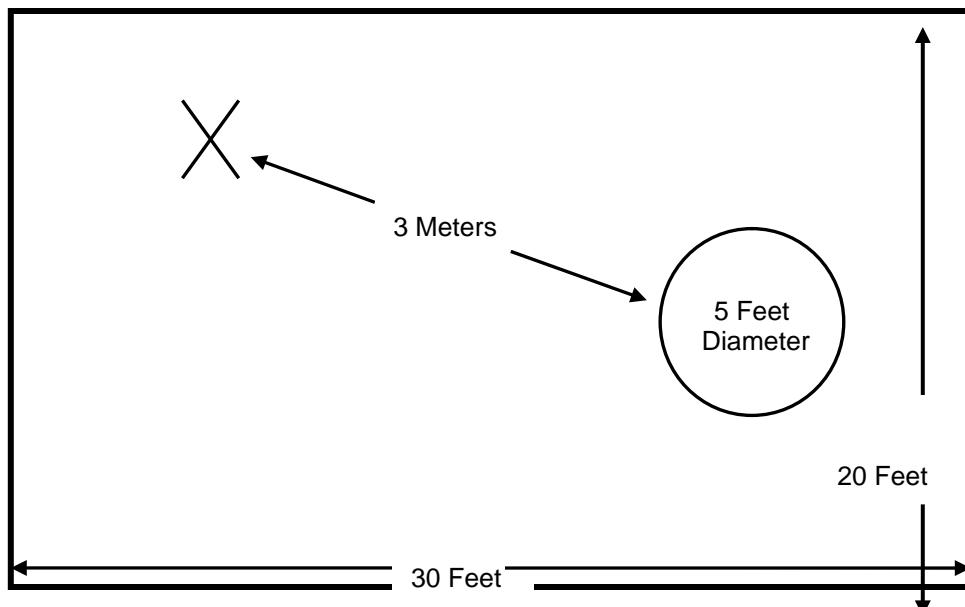


Figure 2.3-1: Semi-Anechoic Chamber Test Site

2.3.2 Open Area Tests Site (OATS)

The open area test site consists of a 40' x 66' concrete pad covered with a perforated electro-plated galvanized sheet metal. The perforations in the sheet metal are 1/8" holes that are staggered every 3/16". The individual sheets are placed to overlap each other by 1/4" and are riveted together to provide a continuous seam. Rivets are spaced every 3" in a 3 x 20 meter perimeter around the antenna mast and EUT area. Rivets in the remaining area are spaced as necessary to properly secure the ground plane and maintain the electrical continuity.

The entire ground plane extends 12' beyond the turntable edge and 16' beyond the antenna mast when set to a 10 meter measurement distance. The ground plane is grounded via 4 - 8' copper ground rods, each installed at a corner of the ground plane and bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is an all aluminum 10' flush mounted table installed in an all aluminum frame. The table is remotely operated from inside the control room located 40' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Adjacent to the turntable is a 7' x 7' square and 4' deep concrete pit used for support equipment if necessary. The pit is equipped with 5 - 4" PVC chases from the pit to the control room that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit. The pit is covered with 2 sheets of 1/4" diamond style re-enforced steel sheets. The sheets are painted to match the perforated steel ground plane; however the underside edges have been masked off to maintain the electrical continuity of the ground plane. All reflecting objects are located outside of the ellipse defined in ANSI C63.4.

A diagram of the Open Area Test Site is shown in Figure 2.3-2 below:

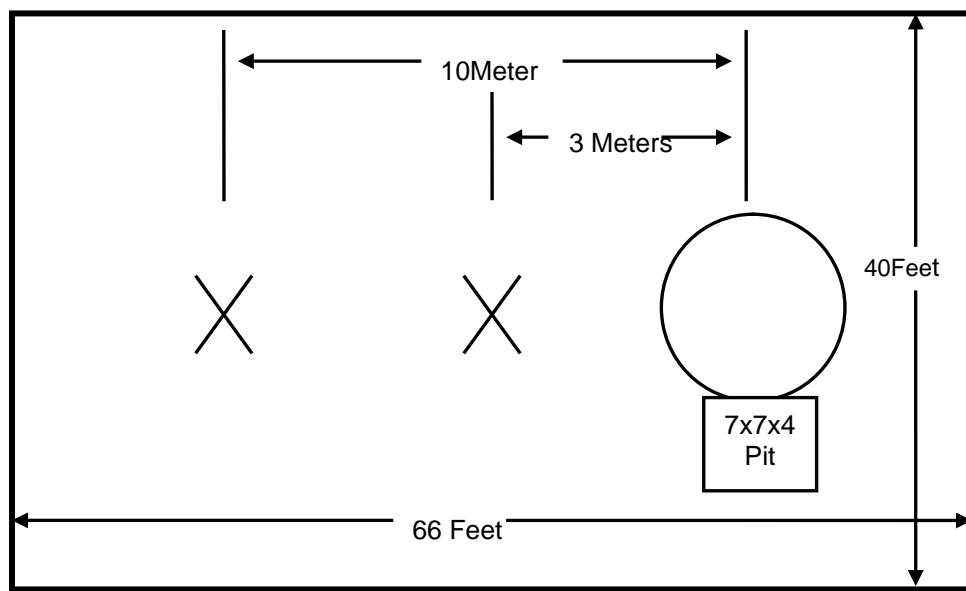


Figure 2.3-2: Open Area Test Site

2.4 Conducted Emissions Test Site Description

The AC mains conducted EMI site is located in the main EMC lab. It consists of an 8' x 8' solid aluminum horizontal ground reference plane (GRP) bonded every 3" to an 8' X 8' vertical ground plane.

The site is of sufficient size to test table top and floor standing equipment in accordance with section 6.1.4 of ANSI C63.4.

A diagram of the room is shown below in figure 4.1.3-1:

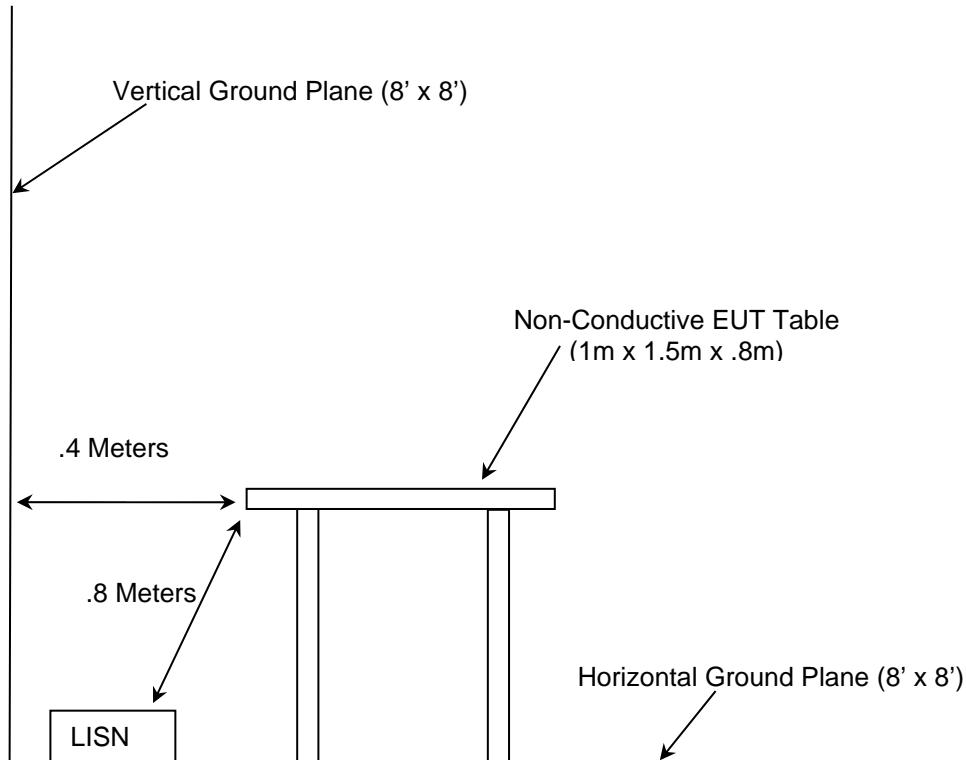


Figure 2.4-1: AC Mains Conducted EMI Site

3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2014
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2014
- ❖ Industry Canada Radio Standards Specification: RSS-210 – Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8, December 2010
- ❖ Industry Canada Radio Standards Specification: RSS-GEN – General Requirements for Compliance of Radio Apparatus, Issue 4, Nov 2014.

4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

Table 4-1: Test Equipment

AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
1	Rohde & Schwarz	ESMI - Display	Spectrum Analyzers	833771/007	7/11/2014	7/11/2015
2	Rohde & Schwarz	ESMI-Receiver	Spectrum Analyzers	839587/003	7/11/2014	7/11/2015
30	Spectrum Technologies	DRH-0118	Antennas	970102	4/23/2013	4/23/2015
40	EMCO	3104	Antennas	3211	2/14/2013	2/14/2015
73	Agilent	8447D	Amplifiers	2727A05624	7/15/2014	7/15/2015
167	ACS	Chamber EMI Cable Set	Cable Set	167	10/28/2014	10/28/2015
292	Florida RF Cables	SMR-290AW-480.0-SMR	Cables	None	3/17/2014	3/17/2015
338	Hewlett Packard	8449B	Amplifiers	3008A01111	7/30/2013	7/30/2015
412	Electro Metrics	LPA-25	Antennas	1241	7/24/2014	7/24/2016
422	Florida RF	SMS-200AW-72.0-SMR	Cables	805	11/5/2014	11/5/2015
616	Florida RF Cables	SMRE-200W-12.0-SMRE	Cables	N/A	9/10/2014	9/10/2015
622	Rohde & Schwarz	FSV40	Analyzers	101338	7/12/2014	7/12/2015

5 SUPPORT EQUIPMENT

Table 5-1: Support Equipment

Item #	Manufacturer	Equipment Type	Model Number	Serial Number
The EUT operates standalone therefore no support equipment was utilized.				

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

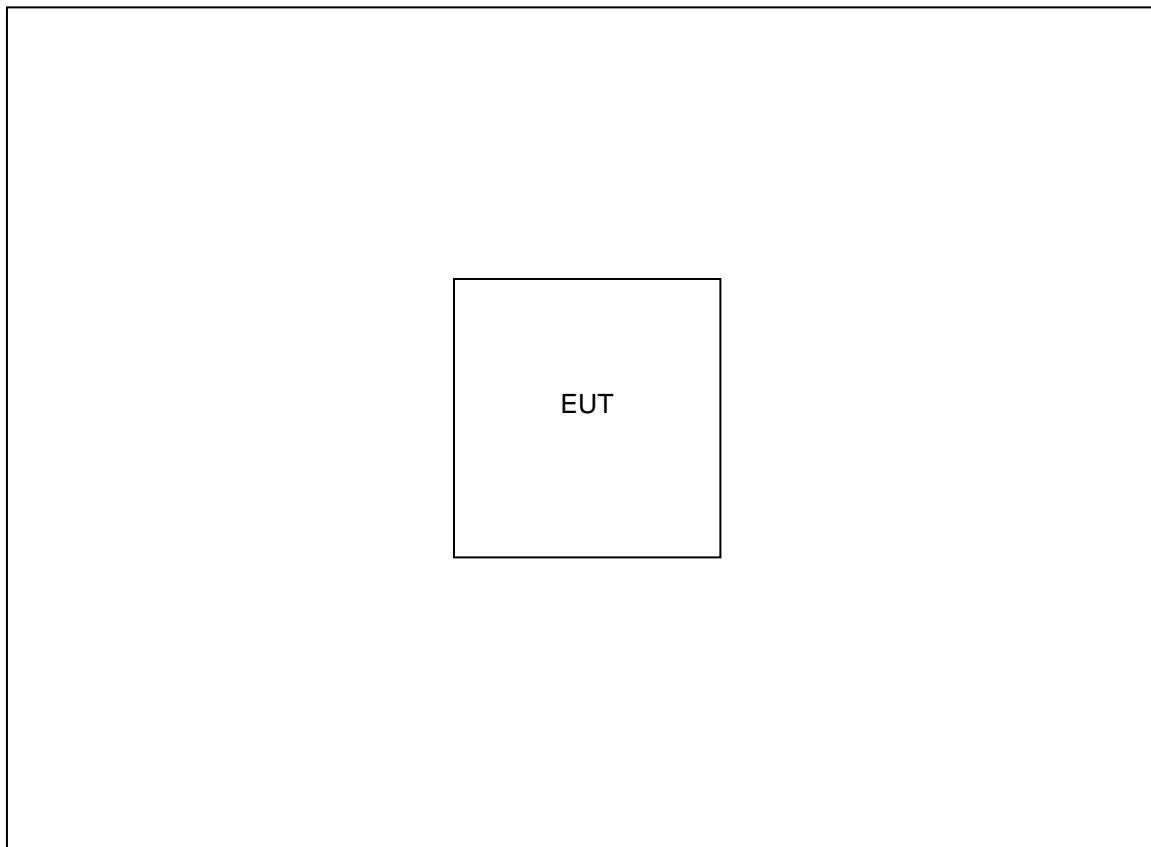


Figure 6-1: EUT Test Setup

7 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Antenna Requirement – FCC: CFR 47 Part 15.203

The antenna is a loop antenna that is implemented as a copper trace on the PCB, thus satisfying Part 15.203. The antenna gain is -5.6dBi.

7.2 Power Line Conducted Emissions – FCC: CFR 47 Part 15.207/ IC: RSS-GEN 8.8

7.2.1 Measurement Procedure

The EUT is battery operated therefore power line conducted emissions is not applicable.

7.3 Periodic Operation – FCC: CFR 47 15.231(a) / IC: RSS-210 A1.1.1

7.3.1 Test Methodology

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

The transmitter was activated manually and was evaluated using a spectrum analyzer at zero span with a > 5 second sweep time.

7.3.2 Test Results

The transmitter ceased operation 797ms after being manually activated. The results are shown in Figure 7.3.2-1.

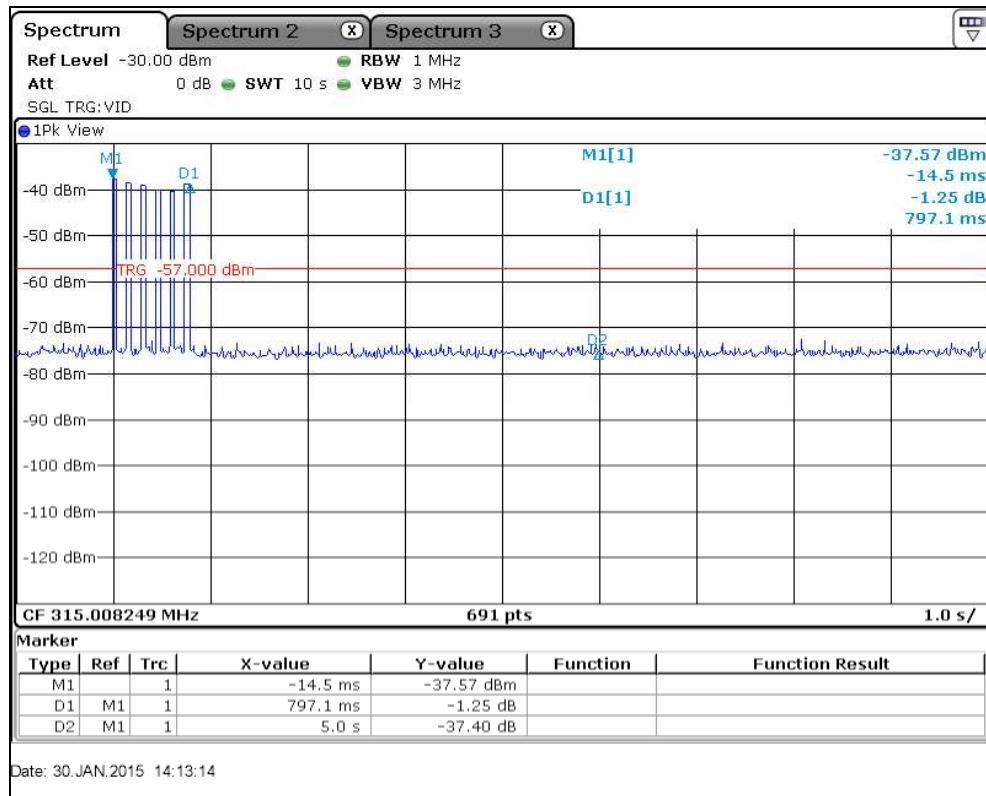


Figure 7.3.2-1: TX Hold Time

7.4 Occupied Bandwidth – FCC: CFR 47 15.231(c)(1) / IC: RSS-210 A1.1.3

7.4.1 Test Methodology

The span of the spectrum analyzer display was set between two times and five times the occupied bandwidth (OBW) of the emission. The RBW of the spectrum analyzer was set to approximately 1 % to 5 % of the OBW. The trace was set to max hold with a peak detector active. The Delta function of the analyzer was utilized to determine the 20 dB bandwidth of the emission.

The occupied bandwidth measurement function of the spectrum analyzer was used to measure the 99% bandwidth. The span of the analyzer was set to capture all products of the modulation process, including the emission sidebands. The resolution bandwidth was set to 1% to 5% of the occupied bandwidth. The video bandwidth was set to 3 times the resolution bandwidth. A sampling detector was used.

7.4.2 Test Results

0.25% of the 315 MHz center frequency is equivalent to 787.5 kHz. Therefore the 20 dB and 99% bandwidths of the emission is less than 0.25% of the center frequency. The results are shown in Table 7.4.2-1 and Figures 7.4.2-1 to 7.4.2-2.

Table 7.4.2-1: 20dB / 99% Bandwidth

Frequency [MHz]	20dB Bandwidth [kHz]	99% Bandwidth [kHz]
315	21.27	44.72

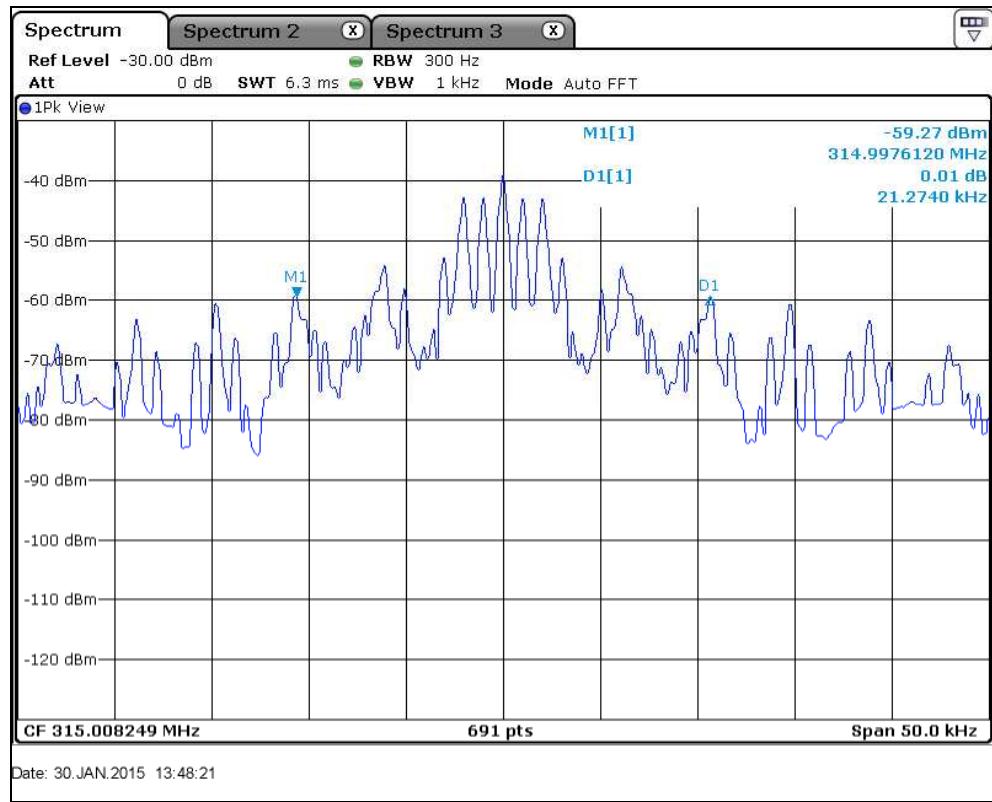


Figure 7.4.2-1: 20 dB Bandwidth

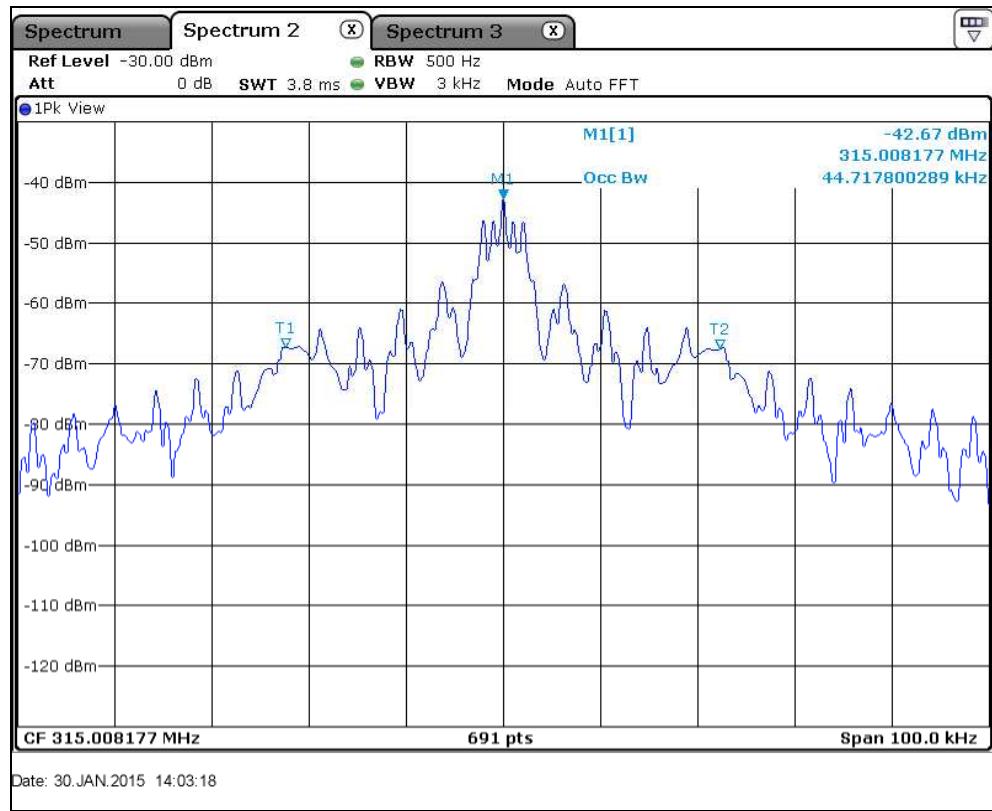


Figure 7.4.2-2: 99% Occupied Bandwidth

7.5 Radiated Emissions – FCC: CFR 47 15.231(b) / IC: RSS-210 A1.1.2

7.5.1 Test Methodology

Radiated emissions tests were made over the frequency range of 30MHz to 3.15GHz, 10 times the highest fundamental frequency.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, measurements were made using a resolution bandwidth (RBW) of 120 kHz and a video bandwidth (VBW) of 300 kHz. For frequencies above 1000MHz, measurements were made with RBW of 1 MHz and a VBW of 3 MHz.

Further, compliance with the provisions of 15.205 was demonstrated using the measurement instrumentation specified in that section where applicable.

The EUT utilized pulsed modulation therefore peak measurements were corrected by the duty cycle for comparison to the average limits.

7.5.2 Duty Cycle Correction

For average radiated measurements, the measured level was reduced by a factor 13.15 dB to account for the duty cycle of the EUT. The worst case duty cycle was determined to be 22%. The duty cycle correction factor is determined using the formula: $20\log(22/100) = -13.15$ dB. Determination of the duty cycle correction is included in the plots and justification below.

Period (T) = 100 ms

Number Pulses (N1) = 40

Pulse Width (T1) = 0.230 ms

Number Pulse (N2) = 25

Pulse Width (T2) = 0.522 ms

Number Pulse (N3) = 3

Pulse Width (T3) = 0.034 ms

$(N1 \cdot T1 + N2 \cdot T2 + N3 \cdot T3) / T = ((40 \cdot 0.230) + (25 \cdot 0.522) + (3 \cdot 0.034)) / 100 = 0.22$

$20 \cdot \log(0.22) = -13.15$ dB Average Correction Factor

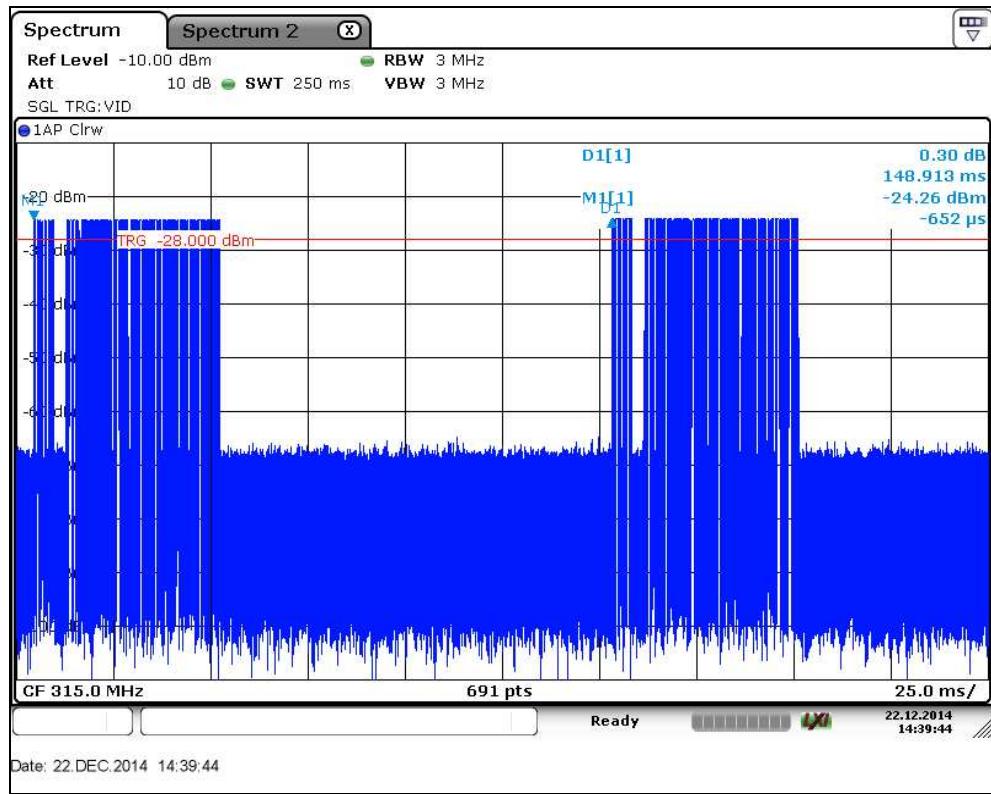


Figure 7.5.2-1: Duty Cycle

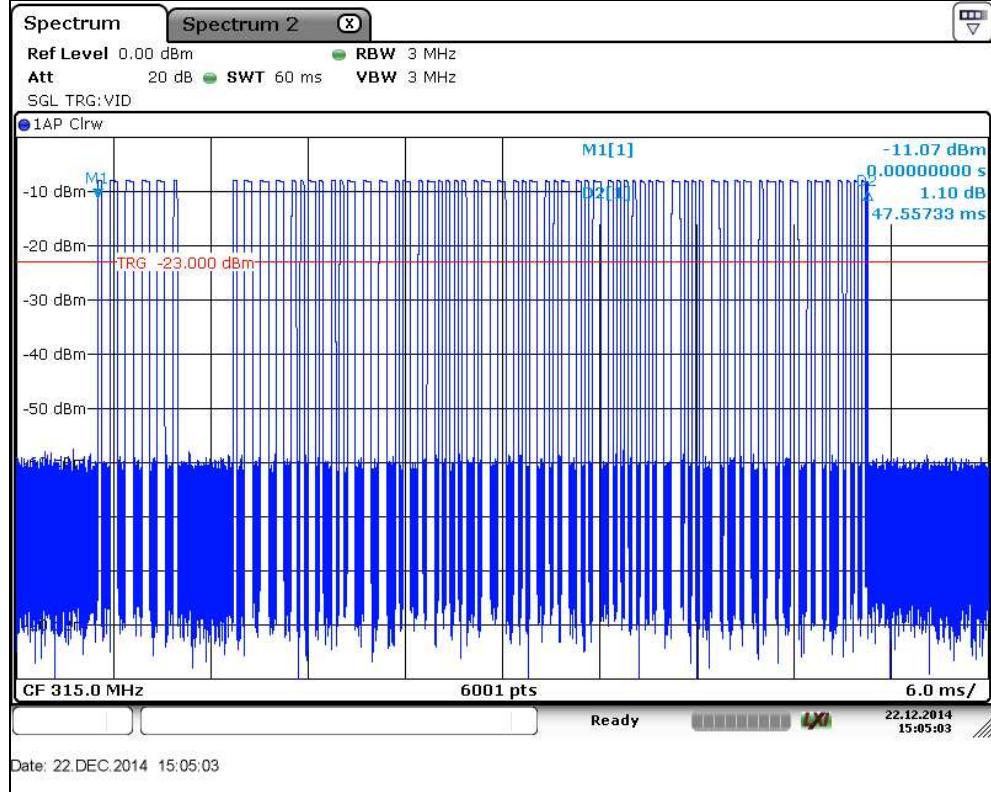


Figure 7.5.2-2: Duty Cycle

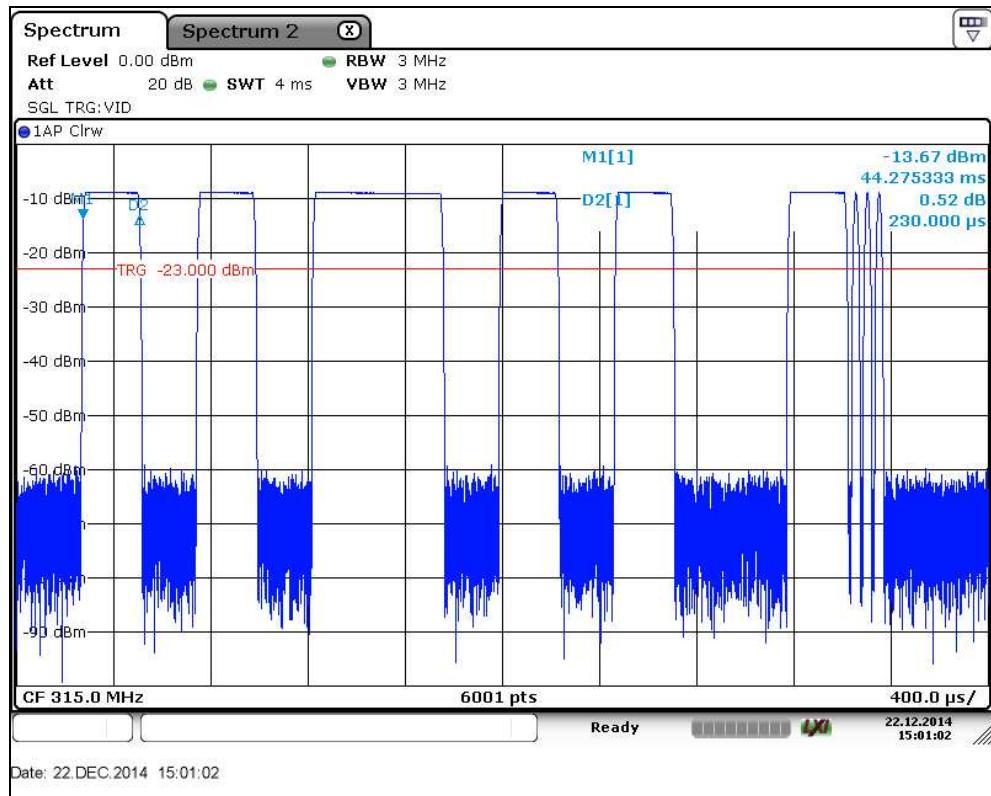


Figure 7.5.2-3: Duty Cycle –Pulse Width (T1)

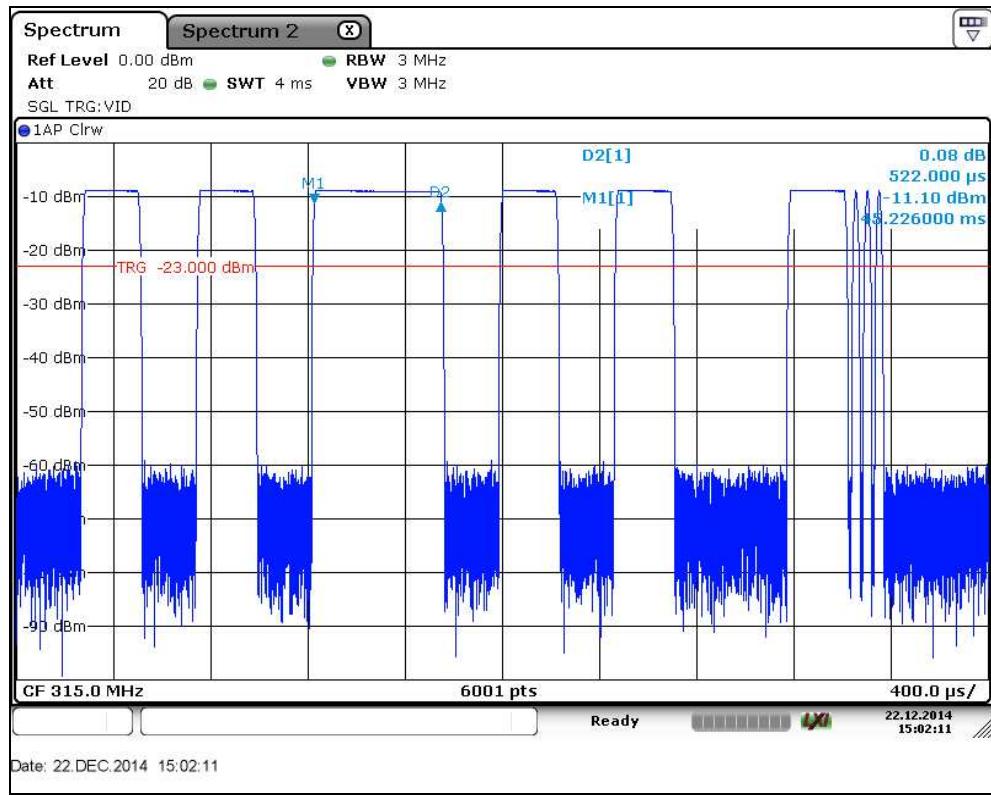


Figure 7.5.2-4: Duty Cycle – Pulse Width (T2)

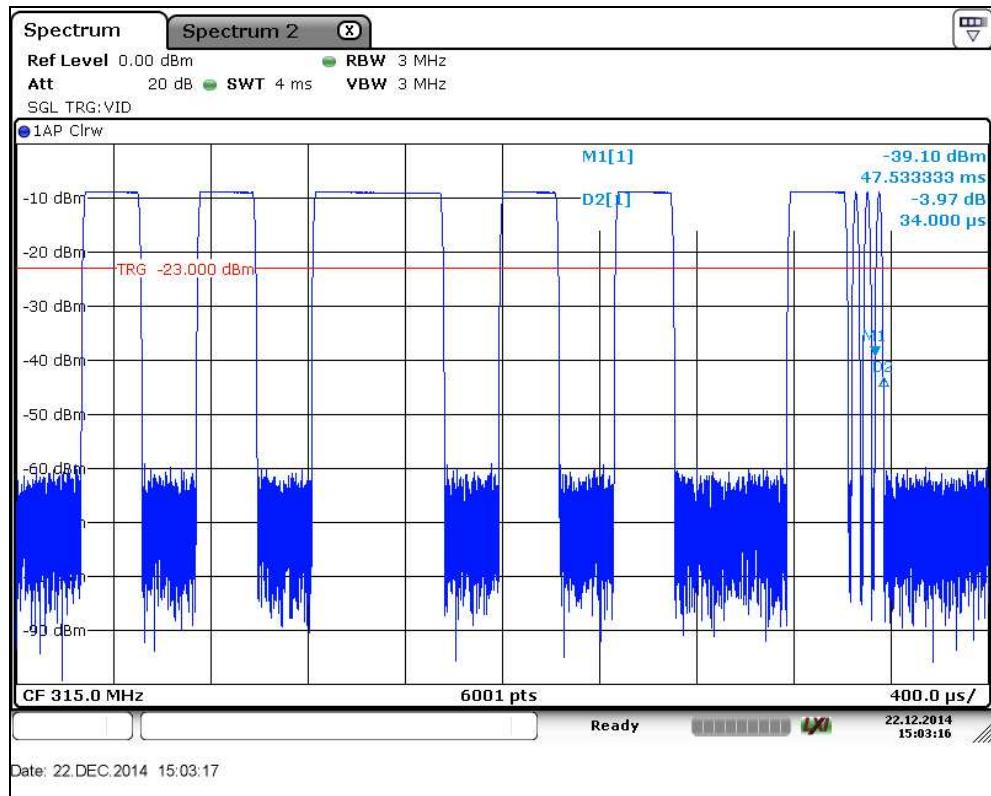


Figure 7.5.2-5: Duty Cycle – Pulse Width (T3)

7.5.3 Test Results

Radiated spurious emissions are reported in Tables 7.5.3-1 through 7.5.3-3. Emissions not reported were below the noise floor of the measurement system.

Table 7.5.3-1: Radiated Emissions – X Position

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
Fundamental Emission										
315	91.80	91.80	H	-9.45	82.35	69.20	95.6	75.6	13.3	6.4
315	74.69	74.69	V	-9.45	65.24	52.09	95.6	75.6	30.4	23.5
Spurious Emissions										
630	44.67	44.67	H	-3.60	41.07	27.92	75.6	55.6	34.5	27.7
630	42.87	42.87	V	-3.60	39.27	26.12	75.6	55.6	36.3	29.5
945	42.00	42.00	H	1.65	43.65	30.50	75.6	55.6	32.0	25.1
945	39.97	39.97	V	1.65	41.62	28.47	75.6	55.6	34.0	27.2
1260	67.75	67.75	H	-12.34	55.41	42.26	75.6	55.6	20.2	13.4
1260	62.97	62.97	V	-12.34	50.63	37.48	75.6	55.6	25.0	18.1
1575	64.44	64.44	H	-10.83	53.61	40.46	74.0	54.0	20.4	13.5
1575	61.65	61.65	V	-10.83	50.82	37.67	74.0	54.0	23.2	16.3
1890	63.53	63.53	H	-9.19	54.34	41.19	75.6	55.6	21.3	14.4
1890	58.09	58.09	V	-9.19	48.90	35.75	75.6	55.6	26.7	19.9
2205	59.53	59.53	H	-7.49	52.04	38.88	74.0	54.0	22.0	15.1
2205	52.80	52.80	V	-7.49	45.31	32.15	74.0	54.0	28.7	21.8
2520	55.44	55.44	H	-5.80	49.64	36.49	75.6	55.6	26.0	19.1
2520	52.34	52.34	V	-5.80	46.54	33.39	75.6	55.6	29.1	22.2
2835	61.84	61.84	H	-4.51	57.33	44.18	74.0	54.0	16.7	9.8
2835	58.26	58.26	V	-4.51	53.75	40.60	74.0	54.0	20.3	13.4
3150	65.86	65.86	H	-3.34	62.52	49.37	75.6	55.6	13.1	6.3
3150	58.61	58.61	V	-3.34	55.27	42.12	75.6	55.6	20.3	13.5

Table 7.5.3-2: Radiated Emissions – Y Position

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
Fundamental Emission										
315	86.27	86.27	H	-9.45	76.82	63.67	95.6	75.6	18.8	12.0
315	88.93	88.93	V	-9.45	79.48	66.33	95.6	75.6	16.1	9.3
Spurious Emissions										
630	38.22	38.22	H	-3.60	34.62	21.47	75.6	55.6	41.0	34.2
630	43.76	43.76	V	-3.60	40.16	27.01	75.6	55.6	35.4	28.6
945	37.36	37.36	H	1.65	39.01	25.86	75.6	55.6	36.6	29.8
945	42.77	42.77	V	1.65	44.42	31.27	75.6	55.6	31.2	24.4
1260	56.53	56.53	H	-12.34	44.19	31.04	75.6	55.6	31.4	24.6
1260	68.49	68.49	V	-12.34	56.15	43.00	75.6	55.6	19.4	12.6
1575	55.88	55.88	H	-10.83	45.05	31.90	74.0	54.0	29.0	22.1
1575	66.88	66.88	V	-10.83	56.05	42.90	74.0	54.0	18.0	11.1
1890	55.34	55.34	H	-9.19	46.15	33.00	75.6	55.6	29.4	22.6
1890	64.15	64.15	V	-9.19	54.96	41.81	75.6	55.6	20.6	13.8
2205	57.01	57.01	H	-7.49	49.52	36.36	74.0	54.0	24.5	17.6
2205	55.01	55.01	V	-7.49	47.52	34.36	74.0	54.0	26.5	19.6
2520	51.21	51.21	H	-5.80	45.41	32.26	75.6	55.6	30.2	23.4
2520	51.66	51.66	V	-5.80	45.86	32.71	75.6	55.6	29.7	22.9
2835	60.62	60.62	H	-4.51	56.11	42.96	74.0	54.0	17.9	11.0
2835	54.53	54.53	V	-4.51	50.02	36.87	74.0	54.0	24.0	17.1
3150	64.12	64.12	H	-3.34	60.78	47.63	75.6	55.6	14.8	8.0
3150	62.55	62.55	V	-3.34	59.21	46.06	75.6	55.6	16.4	9.6

Table 7.5.3-3: Radiated Emissions – Z Position

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
Fundamental Emission										
315	87.33	87.33	H	-9.45	77.88	64.73	95.6	75.6	17.7	10.9
315	88.96	88.96	V	-9.45	79.51	66.36	95.6	75.6	16.1	9.3
Spurious Emissions										
630	43.93	43.93	H	-3.60	40.33	27.18	75.6	55.6	35.3	28.4
630	40.53	40.53	V	-3.60	36.93	23.78	75.6	55.6	38.7	31.8
945	44.37	44.37	H	1.65	46.02	32.87	75.6	55.6	29.6	22.8
945	36.06	36.06	V	1.65	37.71	24.56	75.6	55.6	37.9	31.1
1260	68.61	68.61	H	-12.34	56.27	43.12	75.6	55.6	19.3	12.5
1260	59.05	59.05	V	-12.34	46.71	33.56	75.6	55.6	28.9	22.1
1575	66.87	66.87	H	-10.83	56.04	42.89	74.0	54.0	18.0	11.1
1575	58.56	58.56	V	-10.83	47.73	34.58	74.0	54.0	26.3	19.4
1890	63.32	63.32	H	-9.19	54.13	40.98	75.6	55.6	21.5	14.6
1890	55.60	55.60	V	-9.19	46.41	33.26	75.6	55.6	29.2	22.4
2205	55.08	55.08	H	-7.49	47.59	34.43	74.0	54.0	26.4	19.6
2205	56.11	56.11	V	-7.49	48.62	35.46	74.0	54.0	25.4	18.5
2520	55.36	55.36	H	-5.80	49.56	36.41	75.6	55.6	26.0	19.2
2520	54.07	54.07	V	-5.80	48.27	35.12	75.6	55.6	27.3	20.5
2835	57.79	57.79	H	-4.51	53.28	40.13	74.0	54.0	20.7	13.9
2835	61.52	61.52	V	-4.51	57.01	43.86	74.0	54.0	17.0	10.1
3150	58.08	58.08	H	-3.34	54.74	41.59	75.6	55.6	20.9	14.0
3150	65.56	65.56	V	-3.34	62.22	49.07	75.6	55.6	13.4	6.6

7.5.4 Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF _T	=	Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
R _U	=	Uncorrected Reading
R _C	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
DC	=	Duty Cycle Correction Factor

Example Calculation: Fundamental Frequency (X Orientation)

PEAK:

$$\text{Corrected Level: } 44.67 - 3.60 = 41.07 \text{dBuV}$$

$$\text{Margin: } 75.6 \text{dBuV} - 41.07 \text{dBuV} = 34.5 \text{dB}$$

AVERAGE:

$$\text{Corrected Level: } 44.67 - 3.60 - 13.15 = 27.92 \text{dBuV}$$

$$\text{Margin: } 55.6 \text{dBuV} - 27.92 \text{dBuV} = 27.7 \text{dB}$$

8 CONCLUSION

In the opinion of ACS, Inc. the 300-0271 manufactured by iKeyless, LLC met the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210.

END REPORT