FCC PART 15.249

MEASUREMENT AND TEST REPORT FOR

Microzone Electronic (HK) Co., Limited

4F, Building B, HengKeng 1st Industrial Park, Beihuan Road, Shiyan Town,

Bao An District, Shenzhen, China

FCC ID: ZMKMC4DFMCD6DF

Report Concerns:	Equipment Type:		
Original Report	R/C Radio System		
Model:	MC6S/MC6DR		
Report No.:	STR11058236I		
Test Date:	2011-05-27 to 2011-06-07		
Issue Date:	<u>2011-06-03</u>	7	
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Prepared By:			
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd.

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TABLE OF CONTENTS

1. GENERAL INFORMATION	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
1.3 TEST METHODOLOGY	
1.4 TEST FACILITY	
1.5 EUT Exercise Software	4
1.7 EUT CABLE LIST AND DETAILS	
2. SUMMARY OF TEST RESULTS	
3. §15.203 - ANTENNA REQUIREMENT	
3.1 Standard Applicable	
3.2 TEST RESULT.	
4. §15.207 (A) CONDUCTED EMISSION	
4.1 Measurement Uncertainty	
4.2 TEST EQUIPMENT LIST AND DETAILS	
4.3 Test Procedure.	
4.4 BASIC TEST SETUP BLOCK DIAGRAM	
4.5 Environmental Conditions	
4.6 Test Receiver Setup	
4.7 Summary of Test Results/Plots	
4.8 CONDUCTED EMISSIONS TEST DATA	8
5. §15.205, §15.209, §15.249 (A)- RADIATED EMISSION	11
5.1 MEASUREMENT UNCERTAINTY	11
5.2 STANDARD APPLICABLE	
5.3 TEST EQUIPMENT LIST AND DETAILS	11
5.4 Test Procedure	
5.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	
5.6 ENVIRONMENTAL CONDITIONS	
5.7 SUMMARY OF TEST RESULTS/PLOTS	
6. §15.249(B) OUT OF BAND EMISSIONS	
6.1 Standard Applicable	
6.2 TEST EQUIPMENT LIST AND DETAILS	
6.3 TEST PROCEDURE	
6.4 ENVIRONMENTAL CONDITIONS	
D. J SUMMARY OF TEST KESULTS/PLOTS	2.1

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Microzone Electronic (HK) Co., Limited

Address of applicant: 4F, Building B, HengKeng 1st Industrial Park, Beihuan Road,

Shiyan Town, Bao An District, Shenzhen, China

Manufacturer: Microzone Electronic (HK) Co., Limited

Address of manufacturer: 4F, Building B, HengKeng 1st Industrial Park, Beihuan Road,

Shiyan Town, Bao An District, Shenzhen, China

General Description of E.U.T

Items	Description		
EUT Description:	R/C Radio System		
Trade Name:	MICROZONE		
Model No.:	MC6S/MC6DR		
Adding Models:	MC4S/MC6DR		
Rated Voltage:	DC 12V		
Rated Current:	110mA		
Frequency Range:	2403.5-2479.5MHz		
Antenna Type:	Integral Antenna		
Size:	8.5X29.3X10.3cm		
For more information refer to the circuit diagram form and the user's manual.			

The test data is gathered from a production sample, provided by the manufacturer. The others models listed in the report have different plastic case appearance and color of MC6S/MC6DR without circuit and electronic construction changed, declared by the manufacturer.

1.2 Test Standards

The following report is prepared on behalf of the Microzone Electronic (HK) Co., Limited in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the Operating Instructions and let the EUT keep transmitting.

1.4 Test Facility

• FCC – Registration No.: 994117

SEM.Test Compliance Services Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 994117.

• Industry Canada (IC) Registration No.: 7673A

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

• CNAS Registration No.: L4062

Shenzhen SEM. Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

1.5 EUT Exercise Software

The EUT exercise program used during the testing was designed to exercise the system components. The test software is started while the whole system is on.

1.6 Accessories Equipment List and Details

Description	Manufacturer	Model	Serial Number
Power Adaptor DVE		DVE12500	/

1.7 EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emission	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.209	Radiated Emission	Compliant
§15.249(a)	Field Strength	Compliant
§15.249(d)	Out of Band Emission	Compliant

3. §15.203 - ANTENNA REQUIREMENT

3.1 Standard Applicable

According to FCC 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.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. §15.207 (a) CONDUCTED EMISSION

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

4.2 Test Equipment List and Details

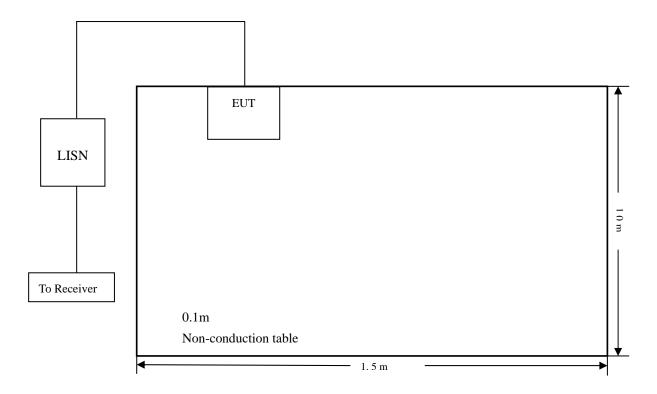
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2010-12-20	2011-12-19
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2010-12-20	2011-12-19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2010-12-20	2011-12-19

4.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

4.4 Basic Test Setup Block Diagram



4.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

4.6 Test Receiver Setup

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

Start Frequency	. 150 kHz
Stop Frequency	.30 MHz
Sweep Speed	. Auto
IF Bandwidth	. 10 kHz
Quasi-Peak Adapter Bandwidth	.9 kHz
Quasi-Peak Adapter Mode	. Normal

4.7 Summary of Test Results/Plots

According to the data in section 4.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-4.10 $dB\mu V$ at 0.390 MHz in the Neutral mode, Average detector, 0.15-30MHz

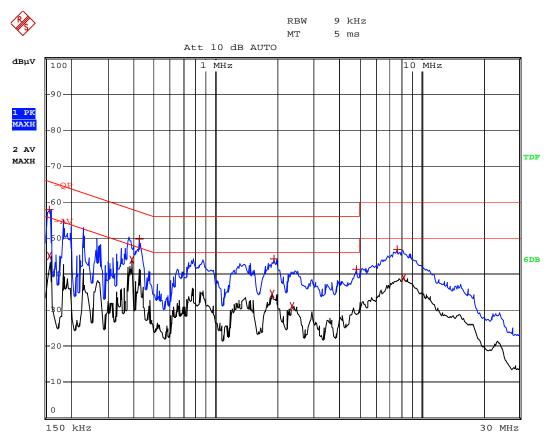
4.8 Conducted Emissions Test Data

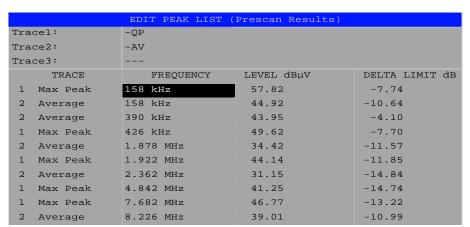
Plot of Conducted Emissions Test Data

Conducted Disturbance EUT: R/C Radio System M/N: MC6S/MC6DR

Operating Condition: Operating with power adapter

Test Specification: N Comment: AC 120V/60Hz



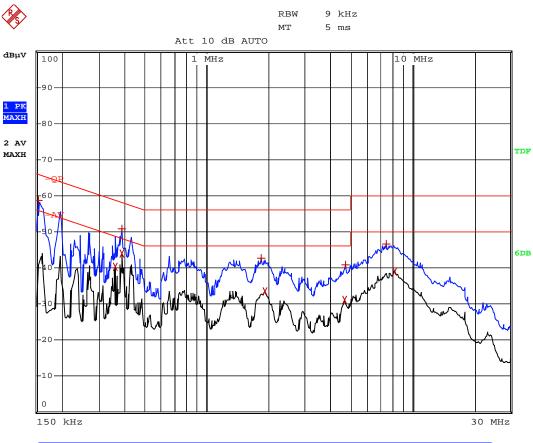


Plot of Conducted Emissions Test Data

Conducted Disturbance EUT: R/C Radio System M/N: MC6S/MC6DR

Operating Condition: Operating with power adapter

Test Specification: L Comment: AC 120V/60Hz



	FDIT DEAK LIST ((Pressan Pesults)		
EDIT PEAK LIST (Prescan Results)				
Tracel:	-QP			
Trace2:	-AV			
Trace3:				
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1 Max Peak	154 kHz	58.74	-7.03	
2 Average	358 kHz	40.27	-8.50	
1 Max Peak	386 kHz	50.85	-7.29	
2 Average	386 kHz	43.97	-4.17	
1 Max Peak	1.846 MHz	42.52	-13.47	
2 Average	1.926 MHz	33.57	-12.42	
2 Average	4.686 MHz	31.06	-14.94	
1 Max Peak	4.75 MHz	40.77	-15.22	
1 Max Peak	7.498 MHz	46.70	-13.29	
2 Average	8.242 MHz	38.89	-11.10	

5. §15.205, §15.209, §15.249 (a)- RADIATED EMISSION

5.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

5.2 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental	Field strength of fundamental
	(milli-volts/meter)	(micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 20 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

5.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

5.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



5.5 Corrected Amplitude & Margin Calculation

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

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

5.6 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

5.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

-5.03 dB μ V at 958.7943 MHz in the Horizontal polarization, Middle Channel Mode 30 MHz to 25 GHz, 3Meters

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

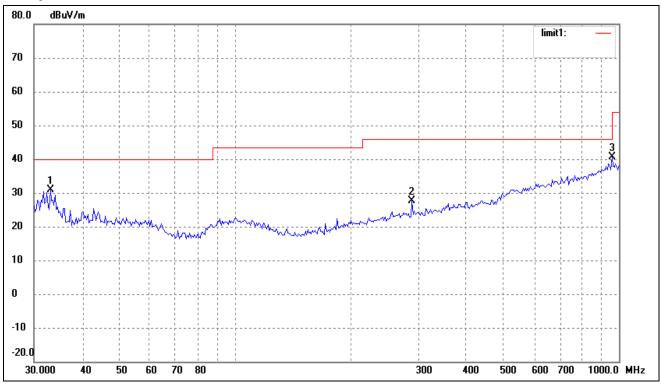
Plot of Radiation Emissions Test

Radiated Disturbance EUT: R/C Radio System M/N: MC6S/MC6DR

Operating Condition: Transmitting below 1GHz Low Channel

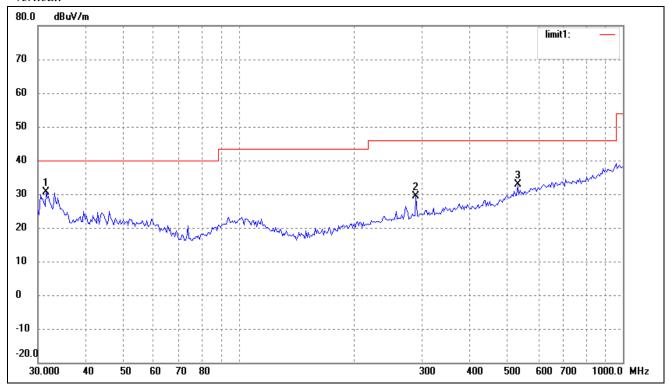
Test Specification: Horizontal & Vertical

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0949	24.05	6.77	30.82	40.00	-9.18	360	100	peak
2	289.0020	18.10	9.63	27.73	46.00	-18.27	0	200	peak
3	958.7943	18.74	21.98	40.72	46.00	-5.28	0	200	peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	31.5094	23.91	6.77	30.68	40.00	-9.32	0	200	peak
2	289.0020	19.83	9.63	29.46	46.00	-16.54	360	100	peak
3	531.9634	17.75	15.12	32.87	46.00	-13.13	0	200	peak

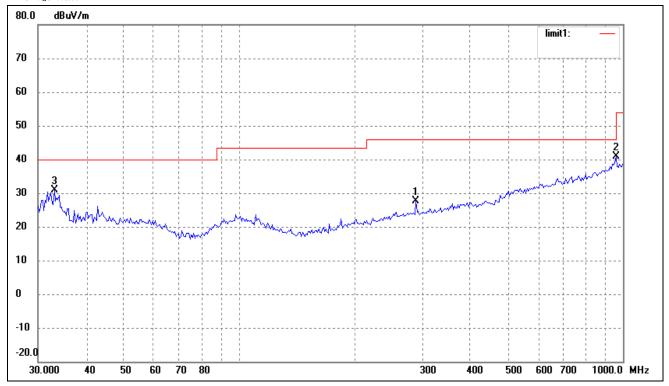
Plot of Radiation Emissions Test

Radiated Disturbance EUT: R/C Radio System M/N: MC6S/MC6DR

Operating Condition: Transmitting below 1GHz Middle Channel

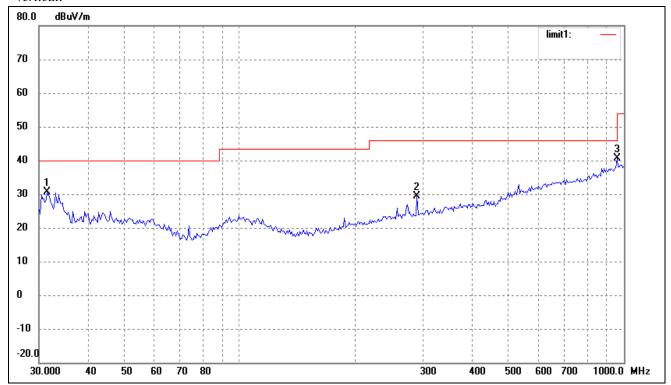
Test Specification: Horizontal & Vertical

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	289.0020	18.10	9.63	27.73	46.00	-18.27	0	100	peak
2	958.7943	18.99	21.98	40.97	46.00	-5.03	0	200	peak
3	33.0949	24.05	6.77	30.82	40.00	-9.18	360	200	peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	31.5094	23.91	6.77	30.68	40.00	-9.32	0	100	peak
2	289.0020	19.83	9.63	29.46	46.00	-16.54	0	200	peak
3	958.7943	18.75	21.98	40.73	46.00	-5.27	360	200	peak

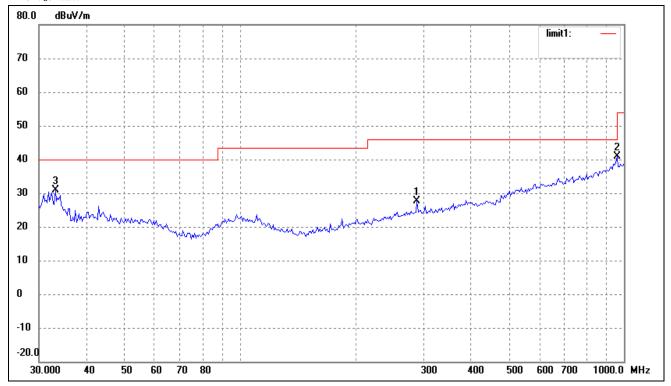
Plot of Radiation Emissions Test

Radiated Disturbance EUT: R/C Radio System M/N: MC6S/MC6DR

Operating Condition: Transmitting below 1GHz High Channel

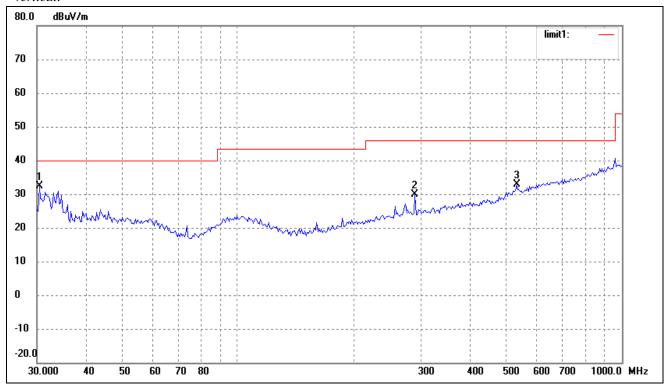
Test Specification: Horizontal & Vertical

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	289.1208	18.03	9.63	27.66	46.00	-18.34	360	200	peak
2	958.7916	18.92	21.98	40.90	46.00	-5.10	0	100	peak
3	33.0920	24.05	6.77	30.82	40.00	-9.18	360	200	peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.4237	25.63	6.77	32.40	40.00	-7.60	0	100	peak
2	289.0020	20.16	9.63	29.79	46.00	-16.21	360	200	peak
3	531.9634	17.75	15.12	32.87	46.00	-13.13	0	200	peak

Spurious Emission Above 1GHz

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB to 25GHz)	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
4807.0										-14.5
4807.0	AV	29.7	341	H	34.1	5.2	33	36.0	54	-18.0
4807.0	PK	58.8	177	V	34.1	5.2	33	65.1	74	-8.9
4807.0	PK	55.3	28	Н	34.1	5.2	33	61.6	74	-12.4
7210.5	AV	27.2	325	V	37.4	6.1	33.5	37.2	54	-16.8
7210.5	AV	24.1	91	Н	37.4	6.1	33.5	34.1	54	-19.9
7210.5	PK	52.8	77	V	37.4	6.1	33.5	62.8	74	-11.2
7210.5	PK	49.7	267	Н	37.4	6.1	33.5	59.7	74	-14.3
2403.5	AV	86.23	33	V	29.1	3.7	34	85.03	94	-8.97
2403.5	AV	79.03	34	Н	29.1	3.7	34	77.83	94	-16.17
2403.5	PK	88.39	164	V	29.1	3.7	34	87.19	114	-26.81
2403.5	PK	82.29	159	Н	29.1	3.7	34	81.09	114	-32.91
				Middle	Channel (1	G to 25GHz	z)			
4879.0	AV	34.81	24	V	34.1	5.2	33	41.11	54	-12.89
4879.0	AV	38.51	341	Н	34.1	5.2	33	44.81	54	-9.19
4879.0	PK	49.66	177	V	34.1	5.2	33	55.96	74	-18.04
4879.0	PK	50.61	28	Н	34.1	5.2	33	56.91	74	-17.09
7318.5	AV	27.31	325	V	37.4	6.1	33.5	37.31	54	-16.69
7318.5	AV	28.36	91	Н	37.4	6.1	33.5	38.36	54	-15.64
7318.5	PK	42.65	77	V	37.4	6.1	33.5	52.65	74	-21.35
7318.5	PK	46.29	267	Н	37.4	6.1	33.5	56.29	74	-17.71
2439.5	AV	80.03	33	V	29.1	3.7	34	78.83	94	-15.17
2439.5	AV	78.29	34	Н	29.1	3.7	34	77.09	94	-16.91
2439.5	PK	84.19	164	V	29.1	3.7	34	82.99	114	-31.01
2439.5	PK	81.36	159	Н	29.1	3.7	34	80.16	114	-33.84

				II: .1. C	71 1 /1/	14. 05CH	`			
High Channel (1G to 25GHz)										
4959.0	AV	32.04	17	Н	34.1	5.2	33.0	38.34	54	-15.66
4959.0	AV	34.94	13	V	34.1	5.2	33.0	41.24	54	-12.76
4959.0	PK	48.63	50	Н	34.1	5.2	33.0	54.93	74	-19.07
4959.0	PK	48.93	59	V	34.1	5.2	33.0	55.23	74	-18.77
7438.5	AV	29.3	355	Н	37.4	6.1	33.5	39.30	54	-14.7
7438.5	AV	28.56	66	V	37.4	6.1	33.5	38.56	54	-15.44
7438.5	PK	45.38	269	Н	37.4	6.1	33.5	55.38	74	-18.62
7438.5	PK	47.05	64	V	37.4	6.1	33.5	57.05	74	-16.95
2479.5	AV	79.06	63	Н	29.1	3.7	34.0	77.86	94	-16.14
2479.5	AV	83.40	85	V	29.1	3.7	34.0	82.20	94	-11.8
2479.5	PK	81.69	85	Н	29.1	3.7	34.0	80.49	114	-33.51
2479.5	PK	85.29	55	V	29.1	3.7	34.0	84.09	114	-29.91

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 5th Harmonics is close to the noise base even antenna close up to 1meter distance according the measurement of ANSI C63.4. Emissions 20dB lower than the limit are not reported.

6. §15.249(b) OUT OF BAND EMISSIONS

6.1 Standard Applicable

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 or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

6.3 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, than mark the higher-level emission for comparing with the FCC rules.

6.4 Environmental Conditions

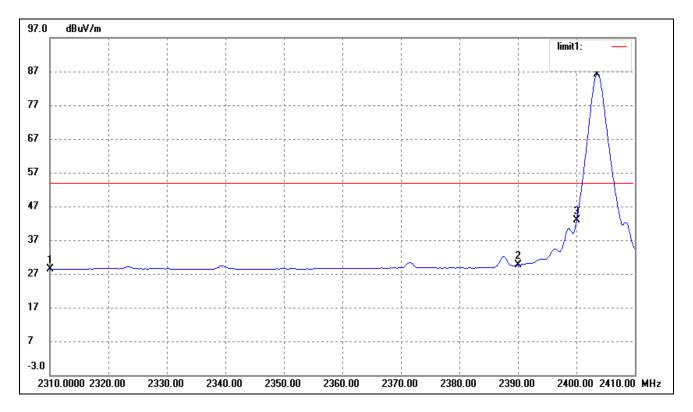
Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

6.5 Summary of Test Results/Plots

Test mode	Frequency MHz	Limit dBuV /dB	Result
	2310.00	<54dBuv	Pass
Lowest	2390.00	<54dBuv	Pass
	2400.00	<54dBuv	Pass
Highaat	2483.50	<54dBuv	Pass
Highest	2500.00	<54dBuv	Pass

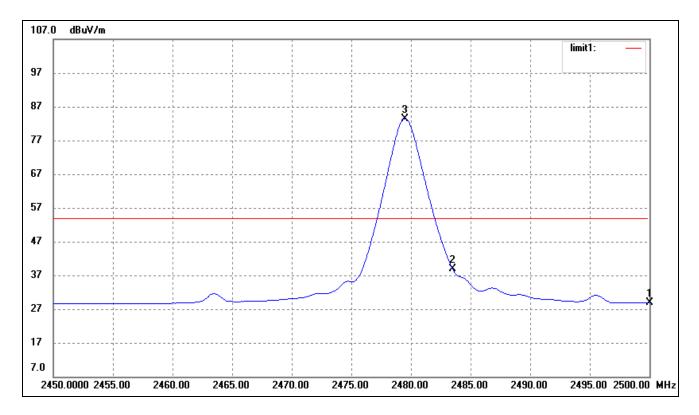
The edge emissions are below the FCC 15.209 Limits. Please refer to the test plots below.

Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.90	-7.51	28.39	54.00	-25.61	Ave Detector
	2310.000	38.19	-7.51	30.68	74.00	-43.32	Peak Detector
2	2390.000	36.87	-7.34	29.53	54.00	-24.47	Ave Detector
	2390.000	46.29	-7.34	38.95	74.00	-35.05	Peak Detector
3	2400.000	50.07	-7.31	42.76	54.00	-11.24	Ave Detector
	2400.000	58.96	-7.31	51.65	74.00	-22.35	Peak Detector
4	2403.600	93.53	-7.30	86.23	/	/	Ave Detector

Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2500.000	35.84	-7.08	28.76	54.00	-25.24	Ave Detector
	2500.000	46.29	-7.08	39.21	74.00	-34.79	Peak Detector
2	2483.500	45.89	-7.13	38.76	54.00	-15.24	Ave Detector
	2483.500	57.06	-7.13	49.93	74.00	-24.07	Peak Detector
3	2479.500	90.53	-7.13	83.40	/	/	Ave Detector

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