

TEST REPORT

Report No.:	E201510156977-1	Application No.:	E201510156977
Applicant:	iSmart Alarm, Inc		
Applicant Address:	1290 Kifer Road, Suite 306 Sunnyvale, CA 94086 USA		
Sample Description:	SPOT		
Model:	iSC5		
Adding Model:	/		
FCC ID:	SENISC5		
Test Specification:	FCC Part 15,Subpart C(Section 15.247)		
Test Date:	2015-10-20 to 2015-11-17		
Issue Date:	2015-11-18		
Test Result:	PASS		
Prepared By:	Reviewed By:	Approved By:	
Brian Xiao / Test Engineer	Lynn Xiao /Technical Manager	Yong Dai /Technical Manager	
			
Date:2015-11-18	Date:2015-11-18	Date:2015-11-18	
Other Aspects:			
/			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			

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Ver.:1.0 / 01.Jan.2011

FCC ID : SENISC5

DIRECTIONS OF TEST

1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.
2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.
3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.

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1. TEST RESULT SUMMARY

FCC Part 15,Subpart C:2015			
Standard	Item	Limit / Severity	Result
FCC Part 15,Subpart C (15.247)	Antenna Requirement	§15.203	PASS
	Conducted Emissions	§15.207 (a)	PASS
	Radiated Electromagnetic Disturbance	§15.247(d)	PASS
	6 Db Bandwidth	§15.247 (a)(2)	PASS
	Maximum Peak Output Power	§15.247(b)(3)	PASS
	Power Spectral Density	§15.247(e)	PASS
	Emissions In Non-Rest ricted Frequency Bands	§15.247(d)	PASS
	Emissions In Restricted Frequency Bands	§15.205	PASS
	Band-Edge Measurements	§15.247(d)	PASS

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: iSmart Alarm, Inc
Address: 1290 Kifer Road, Suite 306 Sunnyvale, CA 94086 USA

2.2 MANUFACTURER

Name: iSmart Alarm, Inc
Address: 1290 Kifer Road, Suite 306 Sunnyvale, CA 94086 USA

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: SPOT
Model No.: iSC5
Adding Model /
Trade Name: iSmartAlarm
Power Supply: 120V/60Hz
Adapter: MODEL: KA25-0501000US
INPUT: AC100-240V 50/60Hz 0.25A Max
OUTPUT: DC5V 1.0A
Frequency Range: 2412MHz~2462MHz: 802.11b; 802.11g; 802.11n
2422MHz~2452MHz: 802.11n40;
Test Frequency: 802.11b/802.11g/802.11n(HT20): 2412MHz to 2462MHz
802.11n(HT40): 2422MHz to 2452MHz
Modulation type DSSS for 802.11b mode;
OFDM for 802.11g mode, 802.11n mode.
Antenna gain: 2dBi
Antenna type: PCB
Note: /

2.4 DESCRIPTION OF SUPPORT UNITS

Instruments:

Name of Equipment	Manufacturer	Model	Serial Number
PC	Lenovo	E40	0578DTC
RJ-45 cable	/	/	/

Test software:

Software version	Test level
Command	Power level: 8

3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests and measurements refer to this report were performed by Guangzhou GRG Metrology and Test CO., LTD.

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3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC Listed Lab (No. 688188)
Canada	Registration No.:8355A-1

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.2dB
		1GHz~26.5GHz	4.2dB
	Vertical	30MHz~1000MHz	4.4dB
		1GHz~26.5GHz	4.4dB
Conducted Emission		9kHz~30MHz	3.1 dB

This uncertainty represents an expanded uncertainty factor of $k=2$.

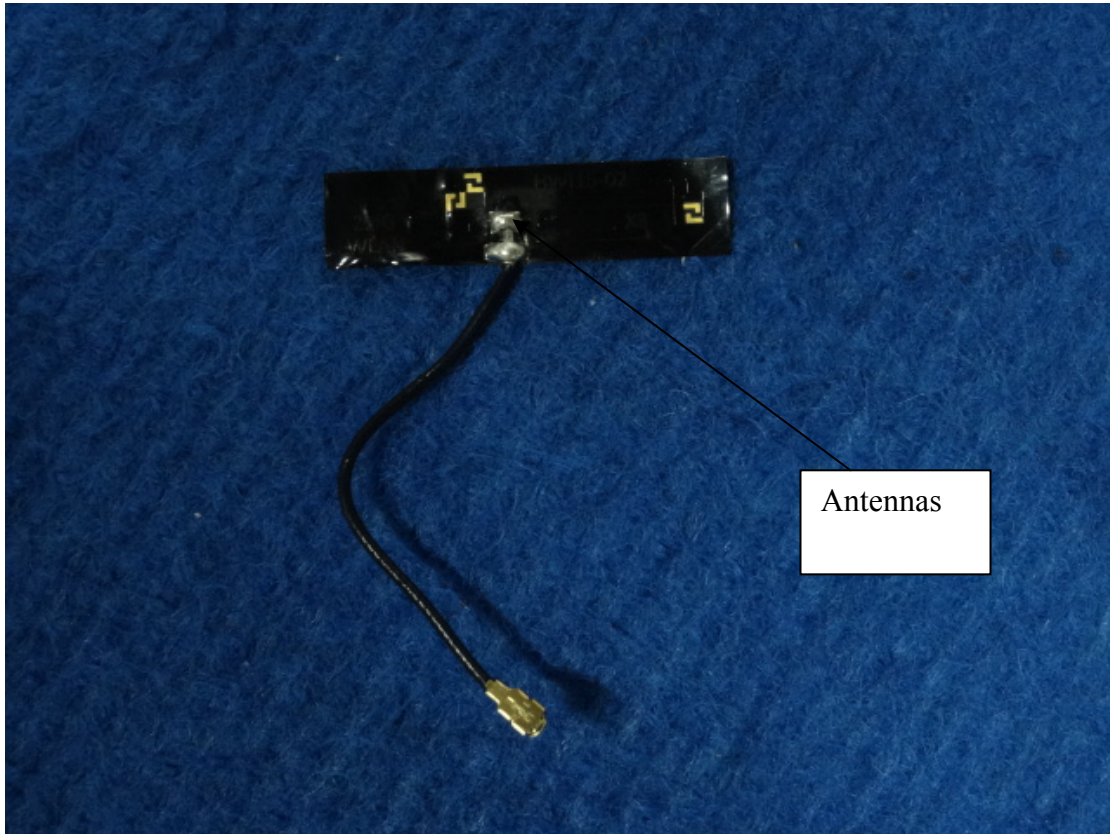
3.4 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS / BAND-EDGE MEASUREMENTS / 6dB BANDWIDTH TESTING / MAXIMUM PEAK OUTPUT POWER / POWER SPECTRAL DENSITY				
Spectrum Analyzer	R&S	FSV30	103246	2016-03-09
CONDUCTED EMISSION MEASUREMENT				
EMI Receiver	R&S	ESCI	100529	2016-03-24
L.I.S.N	SCHWARZBECK	NSLK 8127	8127450	2016-07-20
RADIATED ELECTROMAGNETIC DISTURBANCE / EMISSIONS IN RESTRICTED FREQUENCY BANDS				
Receiver	R&S	ESU26	100526	2016-03-08
Loop antenna	R&S	HFH2-Z2	881058/58	2016-04-17
Biconical Log-periodic Antenna	ETS.LINDGREN	3142C	00075971	2016-04-17
Horn antenna	SCHWARZBECK	BBHA9120D	752	2017-03-03
Horn antenna	SCHWARZBECK	BBHA9170	411	2016-12-21
Per-Amplifier (0.1-26.5GHz)	Compliance Directions systems Inc.	PAP-0126	25002	2016-01-03

4. ANTENNA REQUIREMENT

The antenna is PCB antenna.

The gain of antenna 2dBi .which accordance 15.203 is considered sufficient to comply with the provisions of this section.



5. CONDUCTED EMISSION MEASUREMENT

5.1 LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz $\sim$ 0.5MHz	66 $\sim$ 56	56 $\sim$ 46
0.5 MHz $\sim$ 5 MHz	56	46
5 MHz $\sim$ 30 MHz	60	50

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150 kHz to 0.5MHz.

5.2 TEST PROCEDURES

Procedure of Preliminary Test

Test procedures follow ANSI C63.4:2013.

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

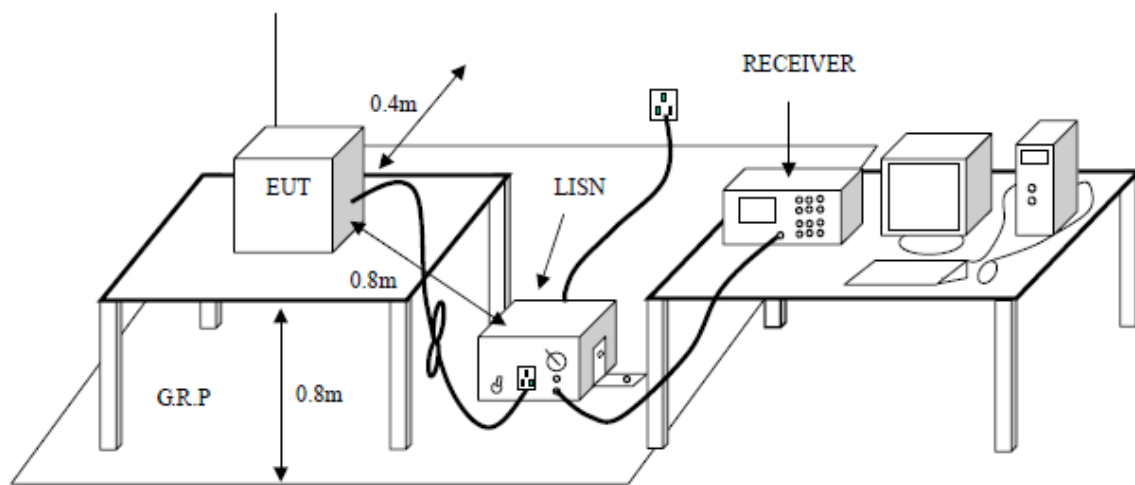
- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

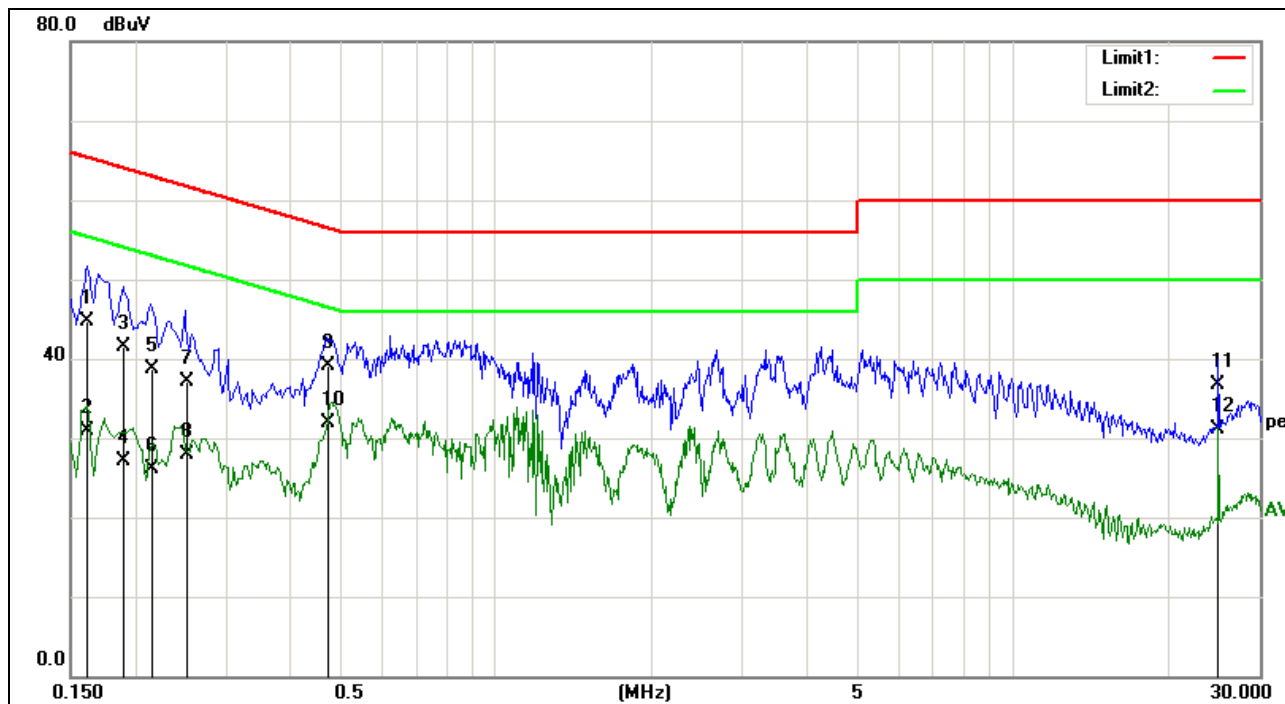
EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.3 TEST SETUP



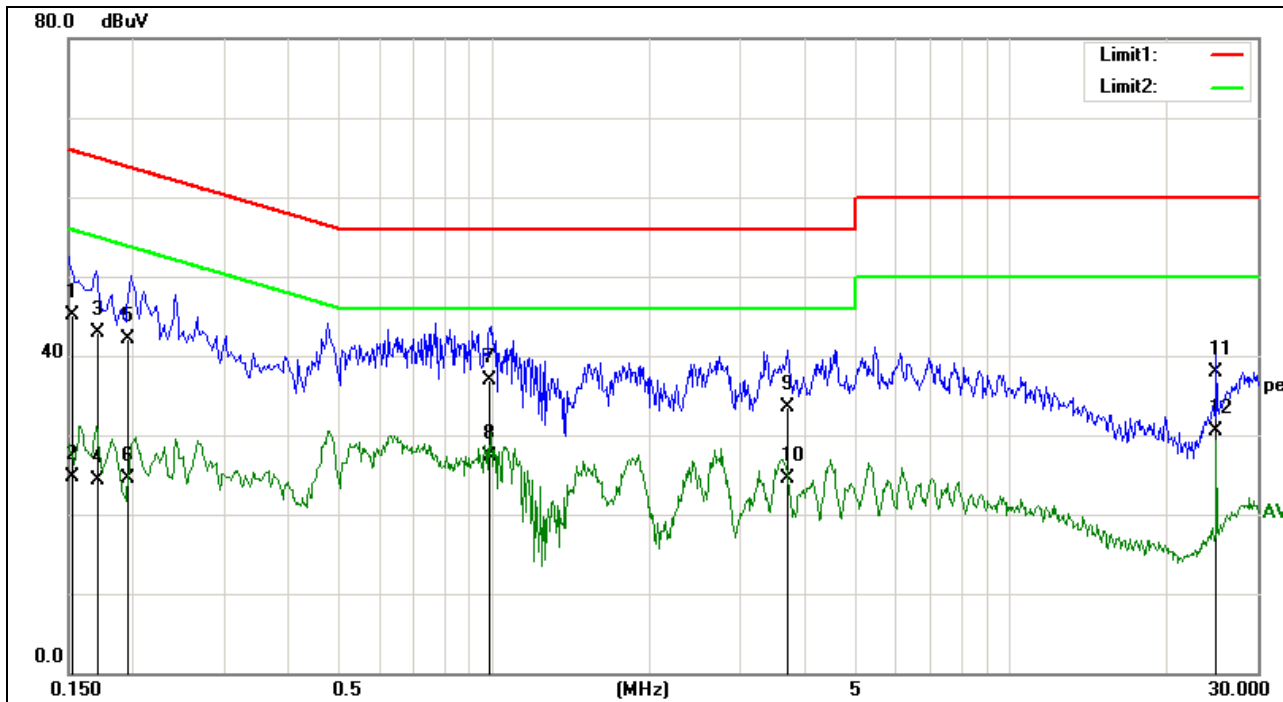
5.4 TEST RESULTS

Project No.:	E201510156977	Probe:	L1
Standard:	(CE)FCC PART 15 class B_QP	Power Source:	AC 120V/60Hz
Test item:	Conduction Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.1/59%RH	Time:	20:03:28
EUT:	SPOT		
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2412MHz		
Test By:	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1613	38.14	6.54	44.68	65.39	-20.71	QP
2	0.1613	24.37	6.54	30.91	55.39	-24.48	AVG
3	0.1896	35.08	6.51	41.59	64.05	-22.46	QP
4	0.1896	20.55	6.51	27.06	54.05	-26.99	AVG
5	0.2154	32.16	6.47	38.63	62.99	-24.36	QP
6	0.2154	19.69	6.47	26.16	52.99	-26.83	AVG
7	0.2528	30.52	6.50	37.02	61.66	-24.64	QP
8	0.2528	21.38	6.50	27.88	51.66	-23.78	AVG
9	0.4712	32.50	6.52	39.02	56.49	-17.47	QP
10	0.4712	25.46	6.52	31.98	46.49	-14.51	AVG
11	25.0017	29.82	6.95	36.77	60.00	-23.23	QP
12	25.0017	24.21	6.95	31.16	50.00	-18.84	AVG

Project No.:	E201510156977	Probe:	N
Standard:	(CE)FCC PART 15 class B_QP	Power Source:	AC 120V/60Hz
Test item:	Conduction Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.1/59%RH	Time:	20:09:44
EUT:	SPOT		
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2412MHz		
Test By:	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1525	38.69	6.47	45.16	65.86	-20.70	QP
2	0.1525	18.20	6.47	24.67	55.86	-31.19	AVG
3	0.1719	36.34	6.54	42.88	64.86	-21.98	QP
4	0.1719	17.86	6.54	24.40	54.86	-30.46	AVG
5	0.1954	35.62	6.50	42.12	63.80	-21.68	QP
6	0.1954	17.92	6.50	24.42	53.80	-29.38	AVG
7	0.9817	30.52	6.46	36.98	56.00	-19.02	QP
8	0.9817	20.88	6.46	27.34	46.00	-18.66	AVG
9	3.6866	26.84	6.69	33.53	56.00	-22.47	QP
10	3.6866	17.73	6.69	24.42	46.00	-21.58	AVG
11	24.9995	30.91	6.95	37.86	60.00	-22.14	QP
12	24.9995	23.59	6.95	30.54	50.00	-19.46	AVG

Note:

Pre-scan all the rate, found that:

11Mbps of rate is the worst case of 802.11b;

54Mbps of rate is the worst case of 802.11g;

MCS7 of rate is the worst case of 802.11n20;

MCS15 of rate is the worst case of 802.11n40;

Pre-scan 802.11b mode, 802.11g mode, 802.11n20 mode and 802.11n40 mode, found that 802.11b mode for lowest channel is the worst case. The worst case emissions were reported.

6. RADIATED ELECTROMAGNETIC DISTURBANCE

6.1 LIMITS

Frequency (MHz)	Quasi-peak(dB μ V/m)
30 ~ 88	40
88~216	43.5
216 ~ 960	46
Above 960	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

Frequency (GHz)	Quasi-peak(dB μ V/m)
1 ~ 26.5	74
1~ 26.5	54

6.2 TEST PROCEDURES

Procedure of Preliminary Test

According to ANSI C63.10:2013, a calibrated, linearly polarized antenna shall be positioned at the specified distance from the periphery of the EUT. The specified distance is the distance between the horizontal projection onto the ground plane of the closest periphery of the EUT and the projection onto the ground plane of the center of the axis of the elements of the receiving antenna.

Measurements shall be made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna shall be varied in height above the reference ground plane to obtain the maximum signal strength. Unless otherwise specified, the measurement distance shall be 3 m. The EUT put on a 0.8m table below 1GHz, on 1.5m table above 1GHz. At any measurement distance, the antenna height shall be varied from 1 m to 4 m. These height scans apply for both horizontal and vertical polarizations, except that for vertical polarization, the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the lowest antenna element clears the site reference ground plane by at least 25 cm. For a tuned dipole, the minimum heights as measured from the center of the antenna are those specified in the NSA measurement requirements.

For tabletop systems, cables or wires should be manipulated within the range of likely arrangements. For floor-standing equipment, the cables or wires should be located in the same manner as the user would install them and no further manipulation is made. For combination EUTs, the tabletop and floor-standing portions of the EUT shall follow the procedures for

their respective setups and cable manipulation.

Table-top equipment is placed on a non-conductive set-up table with height $0.8/1.5\text{ m} \pm 0.01\text{ m}$, ANSI C63.10:2013 specifies the method to determine the impact of the non-conductive set-up table on test results. If the manner of cable installation is not known, or if it changes with each installation, cables or wires for floor-standing equipment shall be manipulated to the extent possible to produce the maximum level of emissions. For each mode of operation required to be tested, the frequency spectrum shall be monitored. Variations in antenna height between 1 m and 4 m, antenna polarization, EUT azimuth, and cable or wire placement shall be explored to produce the emission that has the highest amplitude relative to the limit.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

Below 1GHz Set the spectrum analyzer: RBW =100KHz VBW $\geq$ RBW, Span = enough to catch the trace. Sweep = auto; Detector Function = QP. Trace = Max-hold.

Above 1GHz Set the spectrum analyzer: RBW =1MHz VBW $\geq$ RBW, Span = enough to catch the trace. Sweep = auto; Detector Function = Peak and AVG. Trace = Max-hold.

Pre-scan all the rate, found that:

11Mbps of rate is the worst case of 802.11b;

54Mbps of rate is the worst case of 802.11g;

MCS7 of rate is the worst case of 802.11n20;

MCS15 of rate is the worst case of 802.11n40;

The worst case emissions were reported.

6.3 TEST SETUP

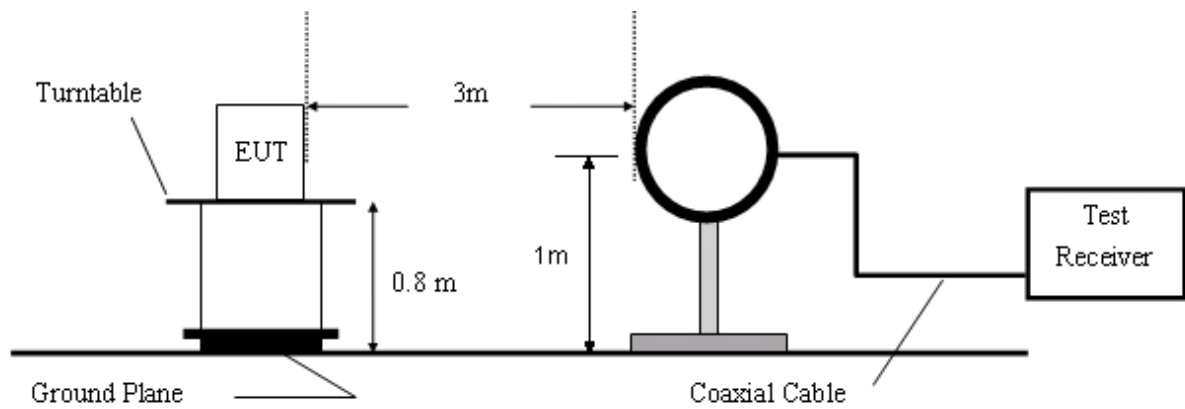


Figure 1. 9KHz to 30MHz radiated emissions test configuration

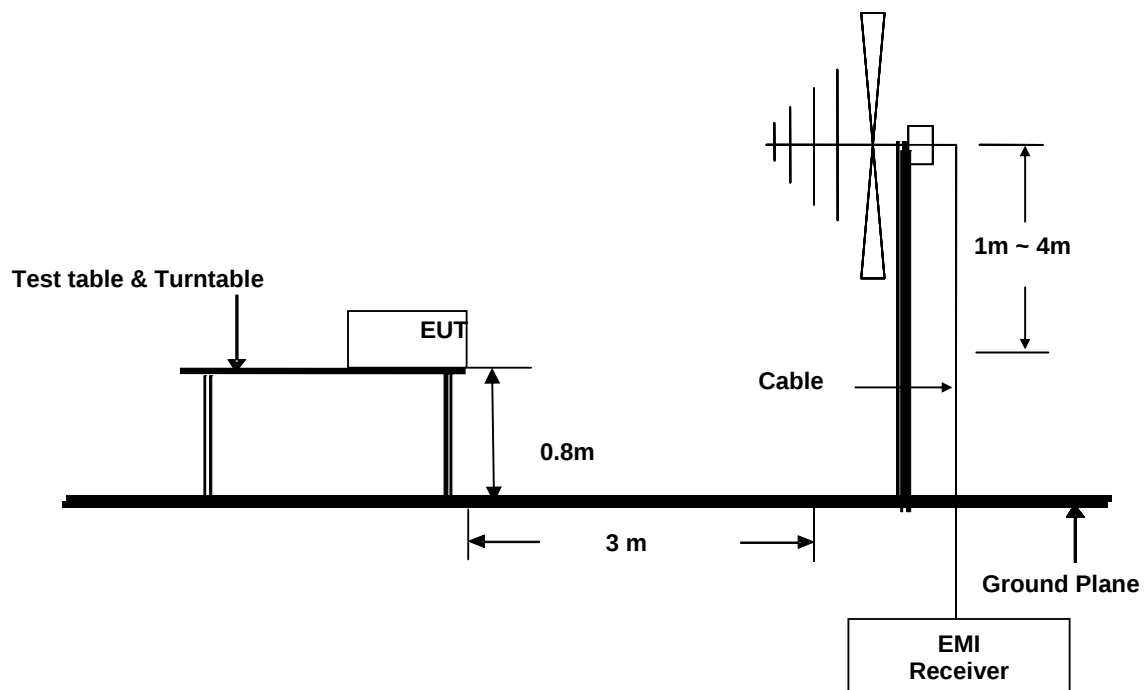


Figure 2. 30MHz to 1GHz radiated emissions test configuration

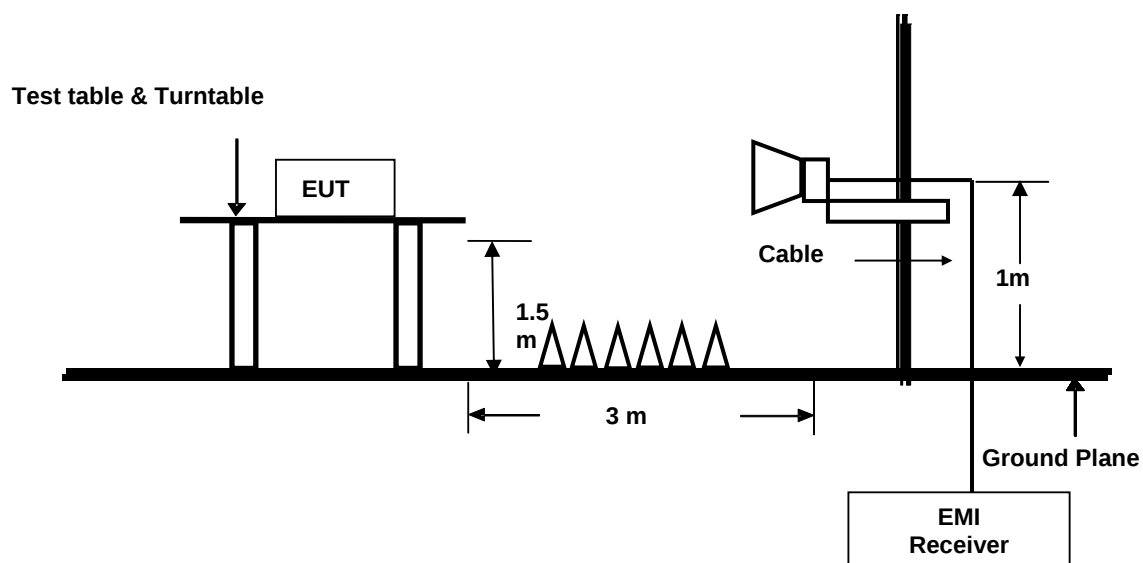
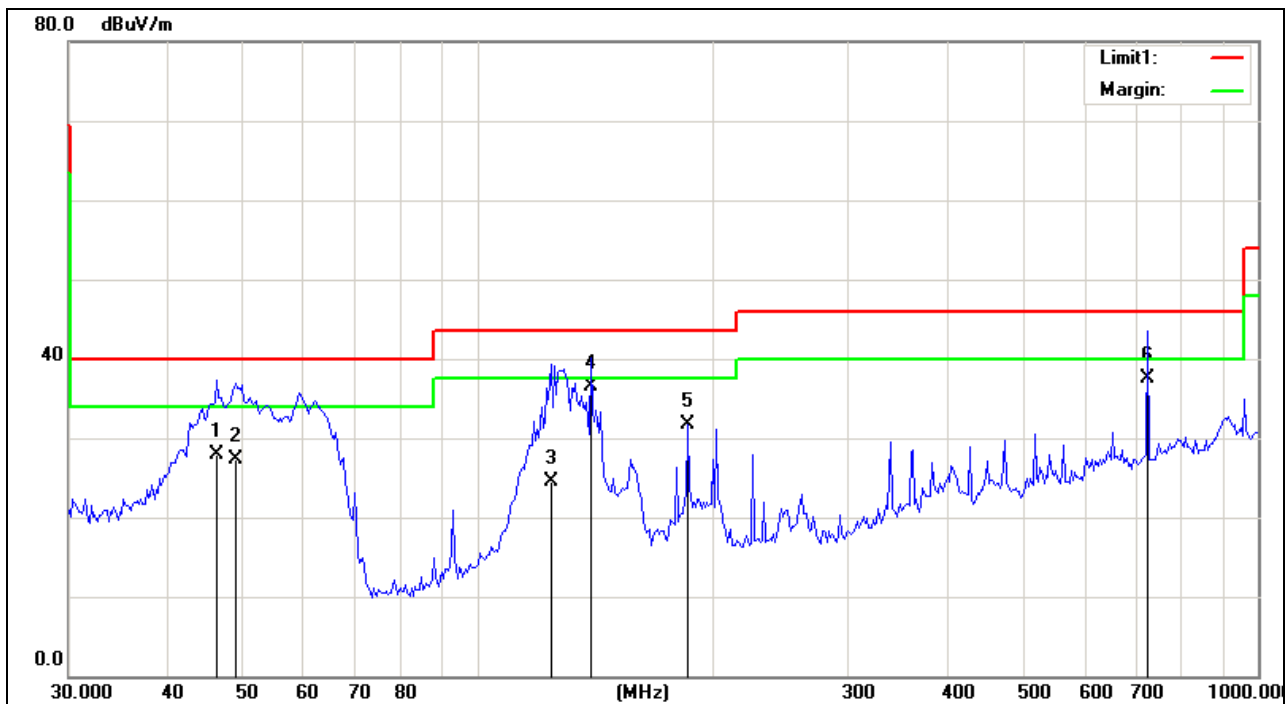


Figure 3. Above 1GHz radiated emissions test configuration

6.4 TEST RESULTS

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	14:33:10
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2412MHz		
Test By:	Brian Xiao		

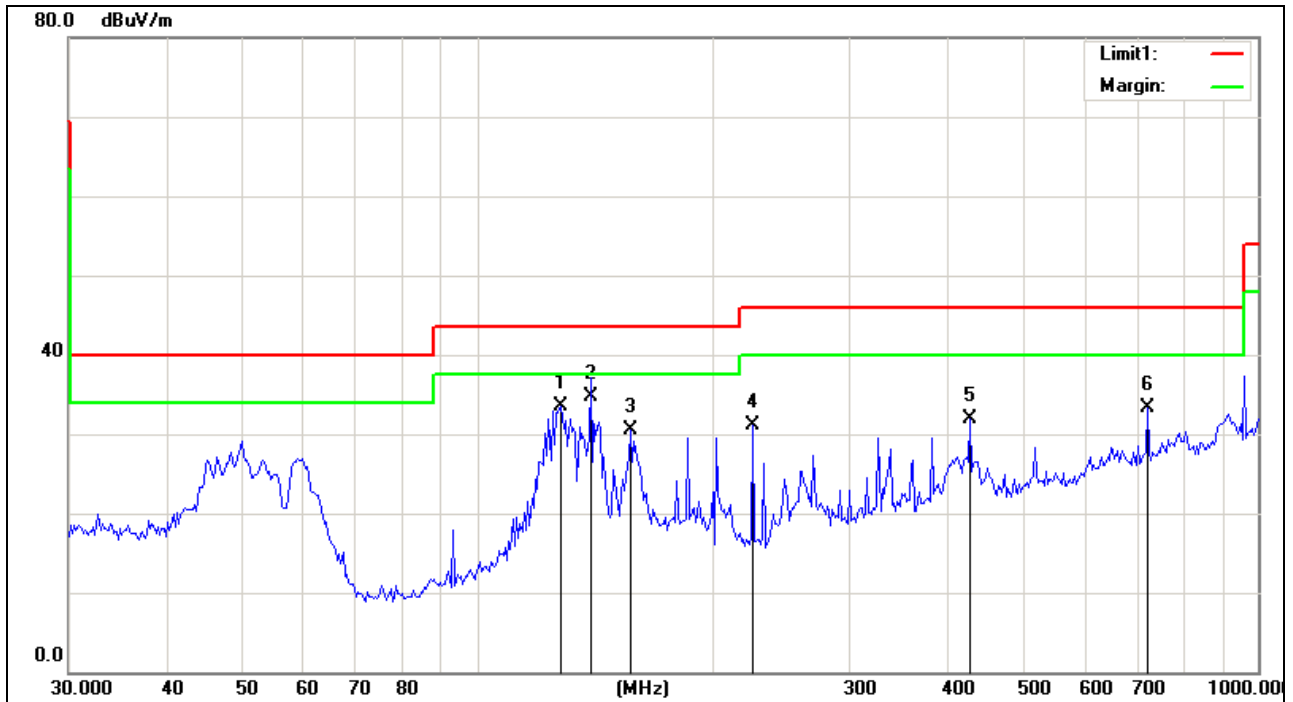


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	46.5030	15.47	12.53	28.00	40.00	-12.00	QP
2	49.1911	15.83	11.47	27.30	40.00	-12.70	QP
3	124.3284	11.58	13.02	24.60	43.50	-18.90	QP
4	139.9011	24.06	12.54	36.60	43.50	-6.90	QP
5	186.3318	20.93	10.71	31.64	43.50	-11.86	peak
6	721.8557	15.45	22.15	37.60	46.00	-8.40	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13392.606	27.98	20.19	48.17	74.00	-25.83	peak
2	18063.497	28.13	19.15	47.28	74.00	-26.72	peak
3	19516.690	28.50	18.73	47.23	74.00	-26.77	peak
4	20338.947	27.94	19.47	47.41	74.00	-26.59	peak
5	22203.088	28.37	21.48	49.85	74.00	-24.15	peak
6	23258.193	29.10	22.46	51.56	74.00	-22.44	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	14:39:06
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2412MHz		
Test By:	Brian Xiao		

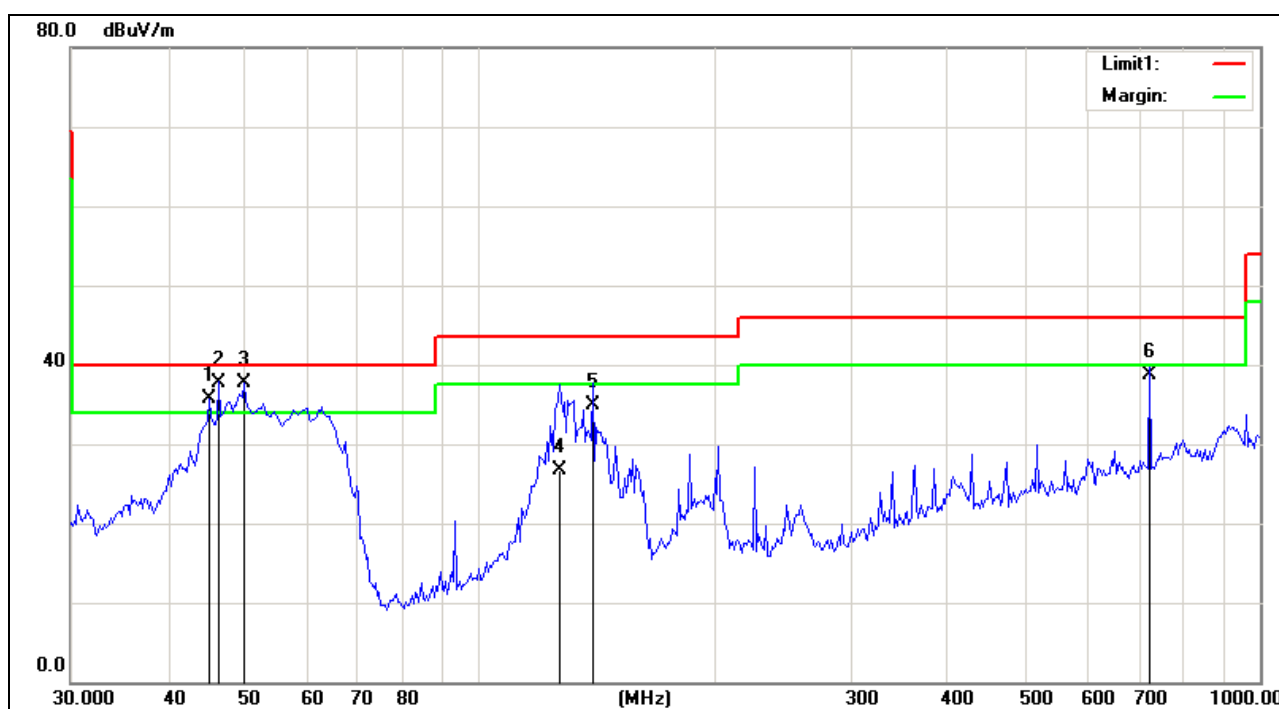


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	127.8713	20.41	13.15	33.56	43.50	-9.94	peak
2	139.9011	22.26	12.54	34.80	43.50	-8.70	QP
3	157.4243	19.13	11.43	30.56	43.50	-12.94	peak
4	225.5612	18.15	12.89	31.04	46.00	-14.96	peak
5	428.0384	14.39	17.60	31.99	46.00	-14.01	peak
6	721.8556	11.19	22.15	33.34	46.00	-12.66	peak

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	12079.789	29.15	17.51	46.66	74.00	-27.34	peak
2	13461.870	27.29	20.27	47.56	74.00	-26.44	peak
3	16891.884	28.73	17.72	46.45	74.00	-27.55	peak
4	18156.918	28.33	19.09	47.42	74.00	-26.58	peak
5	22433.341	28.27	21.69	49.96	74.00	-24.04	peak
6	24871.371	27.24	23.89	51.13	74.00	-22.87	peak

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:17:40
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2437MHz		
Test By:	Brian Xiao		

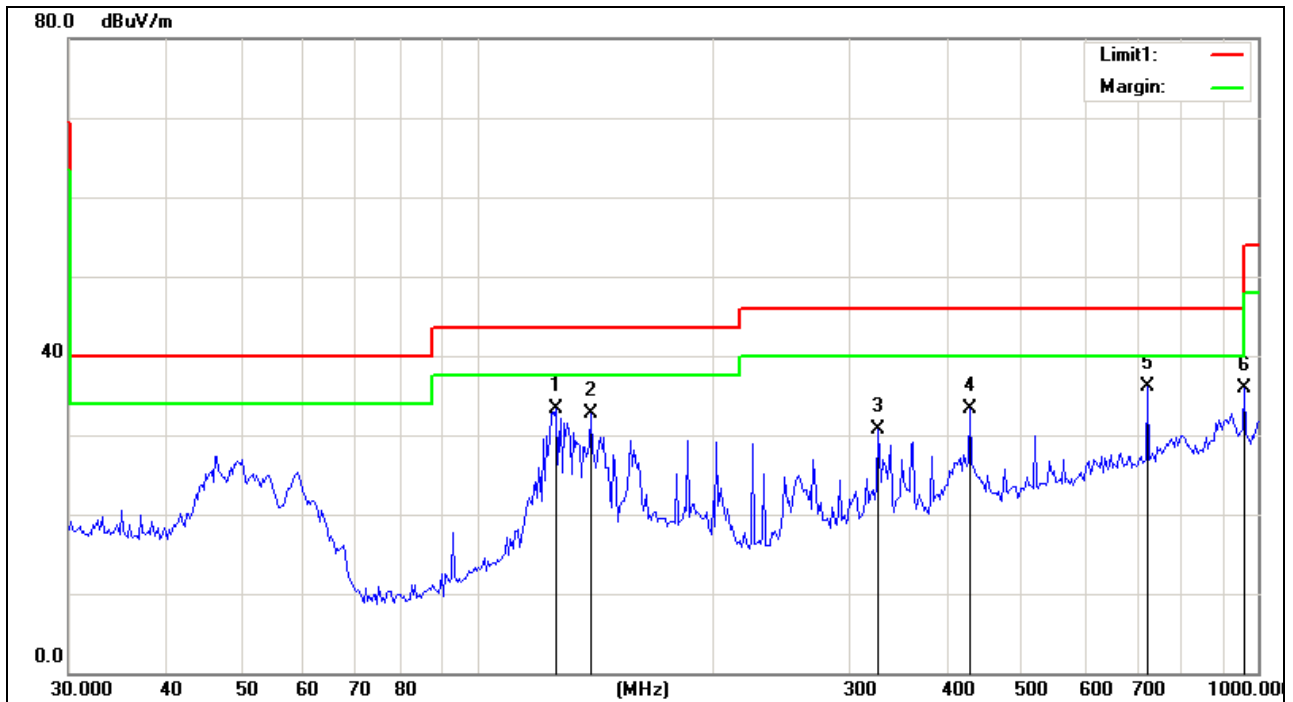


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	45.2146	22.65	13.05	35.70	40.00	-4.30	peak
2	46.5030	25.27	12.53	37.80	40.00	-2.20	peak
3	50.0274	26.57	11.14	37.71	40.00	-2.29	peak
4	127.1547	13.68	13.12	26.80	43.50	-16.70	QP
5	139.9011	22.36	12.54	34.90	43.50	-8.60	QP
6	721.8557	16.65	22.15	38.80	46.00	-7.20	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11711.637	28.82	17.42	46.24	74.00	-27.76	peak
2	13255.146	27.80	20.04	47.84	74.00	-26.16	peak
3	16377.076	28.01	17.99	46.00	74.00	-28.00	peak
4	19617.626	28.33	18.77	47.10	74.00	-26.90	peak
5	21086.791	26.64	20.62	47.26	74.00	-26.74	peak
6	23019.474	27.47	22.22	49.69	74.00	-24.31	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:29:16
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2437MHz		
Test By:	Brian Xiao		

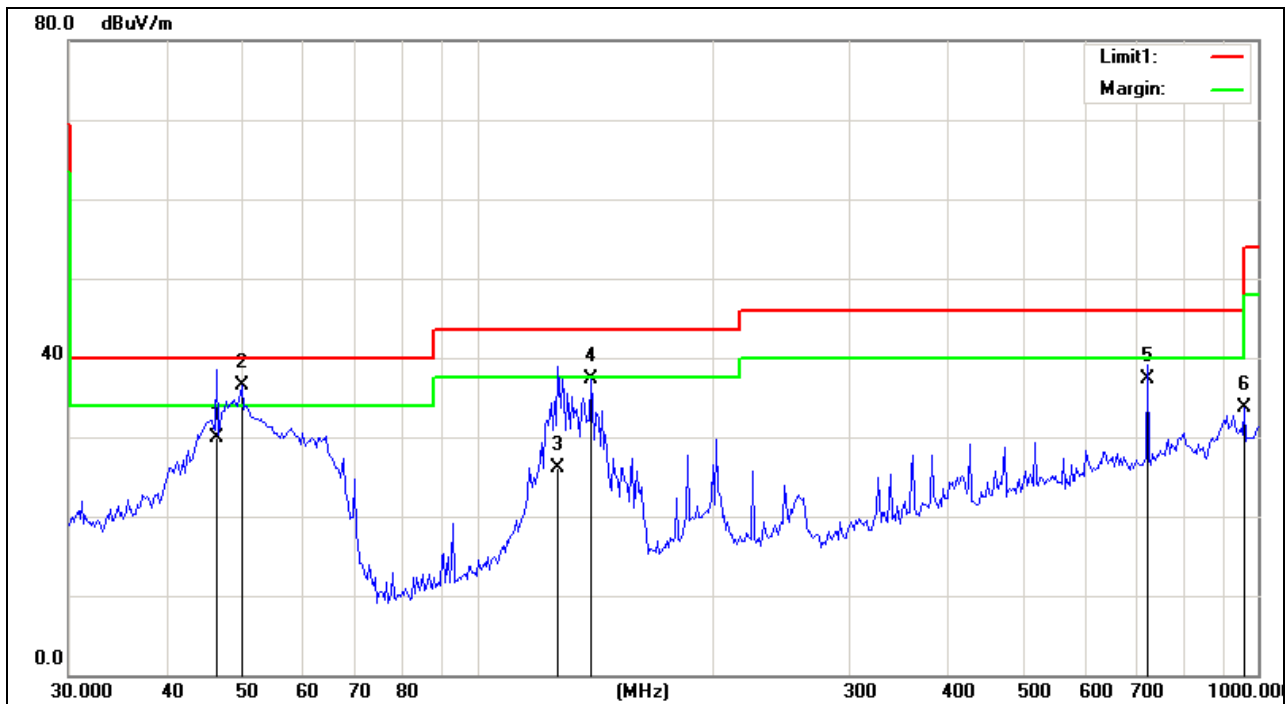


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	126.4422	20.28	13.11	33.39	43.50	-10.11	peak
2	139.9011	20.26	12.54	32.80	43.50	-10.70	peak
3	326.8424	15.26	15.38	30.64	46.00	-15.36	peak
4	428.0385	15.73	17.60	33.33	46.00	-12.67	peak
5	721.8557	13.99	22.15	36.14	46.00	-9.86	peak
6	961.4272	11.02	24.86	35.88	54.00	-18.12	peak

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	12205.060	29.94	17.63	47.57	74.00	-26.43	peak
2	14620.089	31.44	17.20	48.64	74.00	-25.36	peak
3	16042.616	27.62	17.40	45.02	74.00	-28.98	peak
4	18345.211	28.46	18.96	47.42	74.00	-26.58	peak
5	22088.849	27.80	21.38	49.18	74.00	-24.82	peak
6	24363.438	25.64	23.49	49.13	74.00	-24.87	peak

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:38:18
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2462MHz		
Test By:	Brian Xiao		

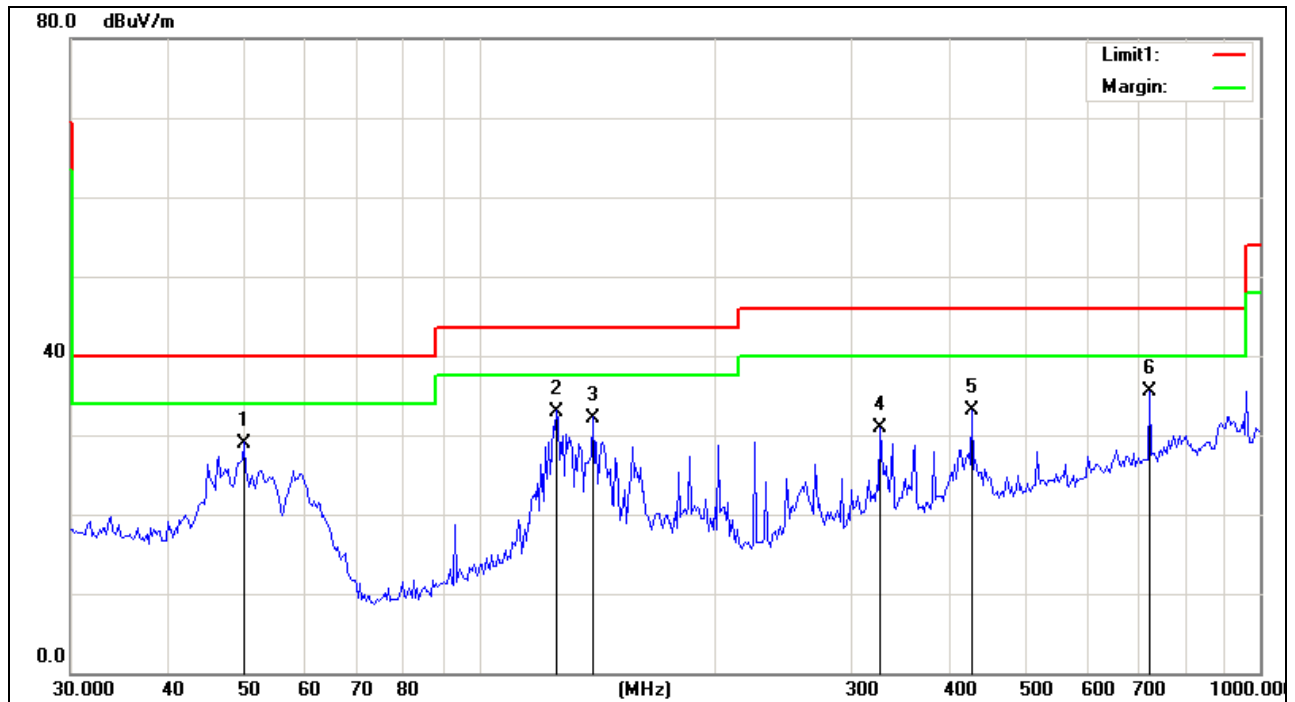


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	46.5030	17.47	12.53	30.00	40.00	-10.00	QP
2	50.0274	25.38	11.14	36.52	40.00	-3.48	peak
3	127.1547	13.08	13.12	26.20	43.50	-17.30	QP
4	139.9011	24.86	12.54	37.40	43.50	-6.10	peak
5	721.8557	15.25	22.15	37.40	46.00	-8.60	QP
6	961.4272	8.78	24.86	33.64	54.00	-20.36	peak

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11833.090	28.52	17.43	45.95	74.00	-28.05	peak
2	13186.946	27.44	19.97	47.41	74.00	-26.59	peak
3	13601.474	27.94	19.86	47.80	74.00	-26.20	peak
4	18250.821	27.87	19.02	46.89	74.00	-27.11	peak
5	21862.132	27.69	21.19	48.88	74.00	-25.12	peak
6	24363.438	27.90	23.49	51.39	74.00	-22.61	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:47:11
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11b Mode 2462MHz		
Test By:	Brian Xiao		

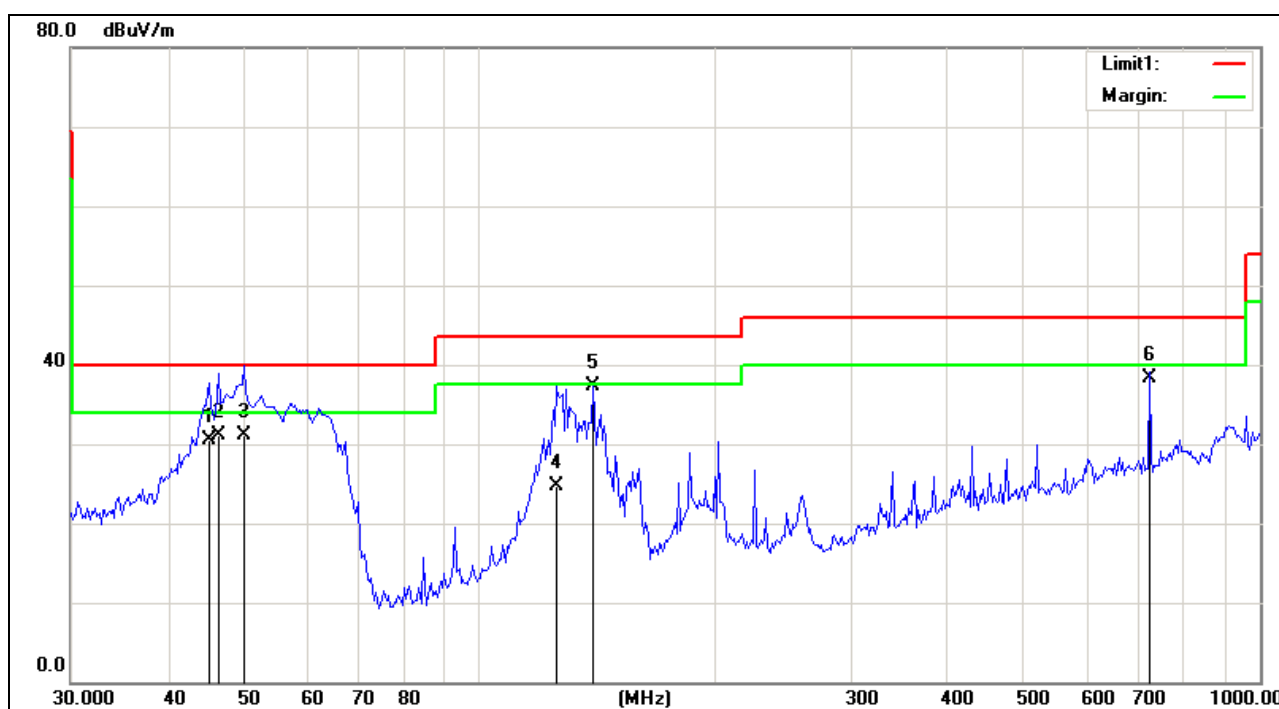


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	50.0274	17.86	11.14	29.00	40.00	-11.00	peak
2	125.7336	19.92	13.08	33.00	43.50	-10.50	peak
3	139.9011	19.66	12.54	32.20	43.50	-11.30	peak
4	326.8424	15.57	15.38	30.95	46.00	-15.05	peak
5	428.0385	15.59	17.60	33.19	46.00	-12.81	peak
6	721.8557	13.32	22.15	35.47	46.00	-10.53	peak

Emission above 1GHz:

o.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	12331.630	28.80	17.75	46.55	74.00	-27.45	peak
2	13392.606	27.25	20.19	47.44	74.00	-26.56	peak
3	16546.911	29.14	18.15	47.29	74.00	-26.71	peak
4	18250.821	28.96	19.02	47.98	74.00	-26.02	peak
5	22901.035	27.38	22.11	49.49	74.00	-24.51	peak
6	25000.000	26.85	24.00	50.85	74.00	-23.15	peak

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:51:37
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2412MHz		
Test By:	Brian Xiao		

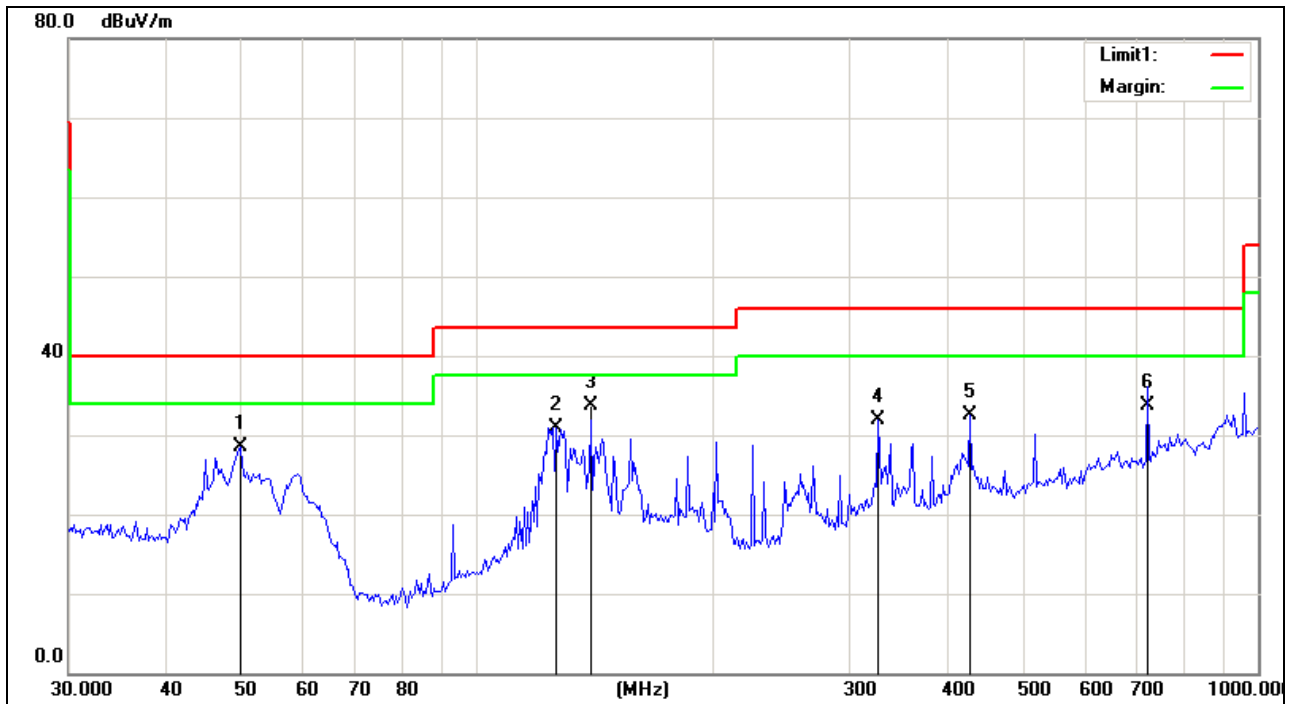


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	45.2146	17.55	13.05	30.60	40.00	-9.40	QP
2	46.5030	18.57	12.53	31.10	40.00	-8.90	QP
3	50.0274	20.06	11.14	31.20	40.00	-8.80	QP
4	125.7336	11.62	13.08	24.70	43.50	-18.80	QP
5	139.9011	24.72	12.54	37.26	43.50	-6.24	peak
6	721.8557	16.25	22.15	38.40	46.00	-7.60	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11651.379	28.60	17.41	46.01	74.00	-27.99	peak
2	13392.606	27.04	20.19	47.23	74.00	-26.77	peak
3	18156.918	28.19	19.09	47.28	74.00	-26.72	peak
4	21305.467	27.48	20.78	48.26	74.00	-25.74	peak
5	23499.388	26.37	22.70	49.07	74.00	-24.93	peak
6	25000.000	26.86	24.00	50.86	74.00	-23.14	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	15:59:01
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2412MHz		
Test By:	Brian Xiao		

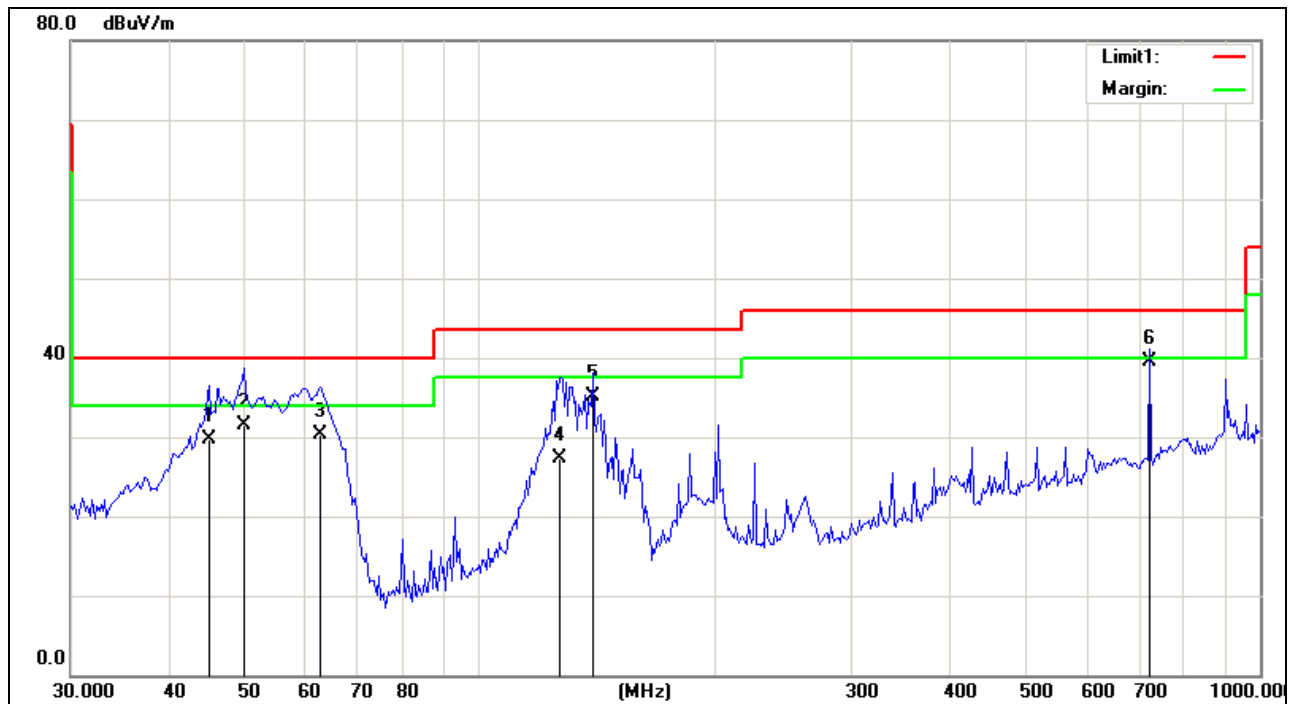


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.7470	17.31	11.25	28.56	40.00	-11.44	peak
2	126.4422	17.85	13.11	30.96	43.50	-12.54	peak
3	139.9011	21.16	12.54	33.70	43.50	-9.80	QP
4	326.8424	16.48	15.38	31.86	46.00	-14.14	peak
5	428.0385	14.95	17.60	32.55	46.00	-13.45	peak
6	721.8557	11.55	22.15	33.70	46.00	-12.30	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11711.637	28.61	17.42	46.03	74.00	-27.97	peak
2	13461.870	26.99	20.27	47.26	74.00	-26.74	peak
3	18156.918	28.51	19.09	47.60	74.00	-26.40	peak
4	19923.577	28.81	18.88	47.69	74.00	-26.31	peak
5	21975.198	28.34	21.29	49.63	74.00	-24.37	peak
6	25000.000	28.07	24.00	52.07	74.00	-21.93	peak

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	16:11:39
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2437MHz		
Test By:	Brian Xiao		

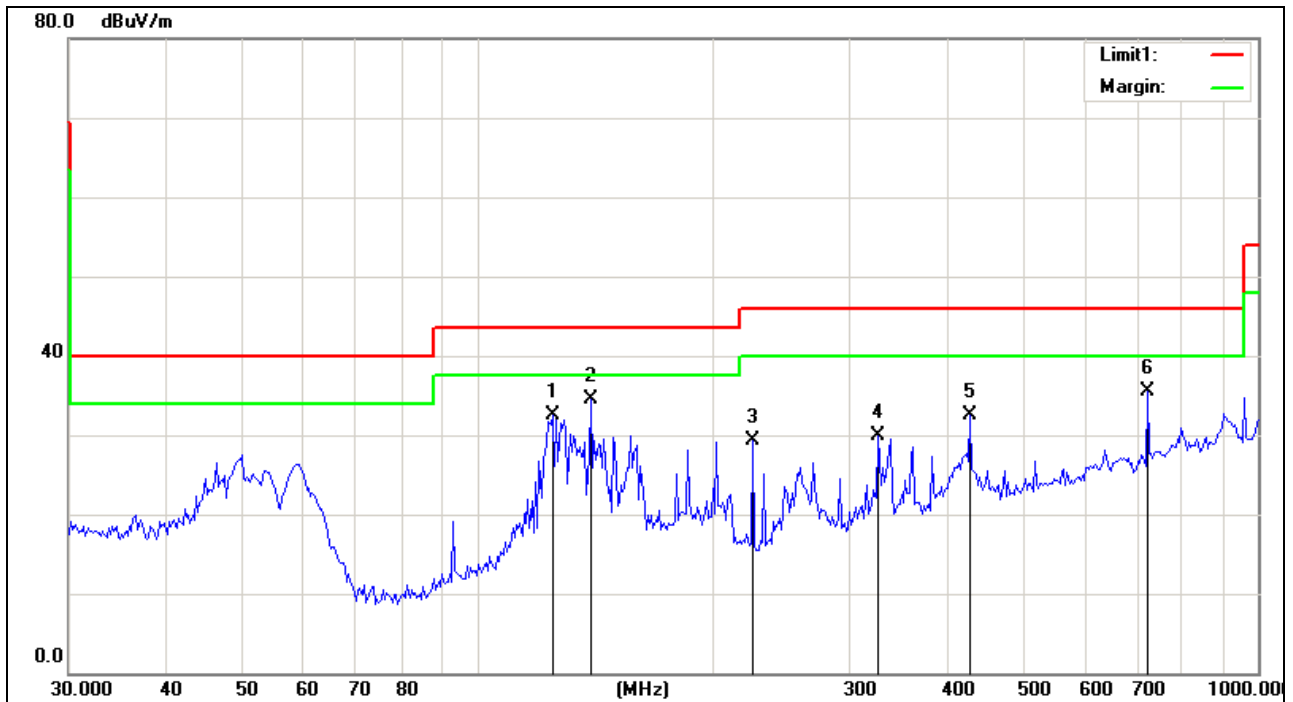


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	45.2146	16.65	13.05	29.70	40.00	-10.30	QP
2	50.0274	20.46	11.14	31.60	40.00	-8.40	QP
3	62.6366	21.49	8.81	30.30	40.00	-9.70	QP
4	127.1547	14.28	13.12	27.40	43.50	-16.10	QP
5	139.9011	22.66	12.54	35.20	43.50	-8.30	QP
6	721.8557	17.35	22.15	39.50	46.00	-6.50	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11651.379	27.86	17.41	45.27	74.00	-28.73	peak
2	13671.818	27.40	19.56	46.96	74.00	-27.04	peak
3	16461.774	27.36	18.14	45.50	74.00	-28.50	peak
4	18345.211	28.09	18.96	47.05	74.00	-26.95	peak
5	21975.198	27.88	21.29	49.17	74.00	-24.83	peak
6	24743.403	26.19	23.80	49.99	74.00	-24.01	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	16:19:07
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2437MHz		
Test By:	Brian Xiao		

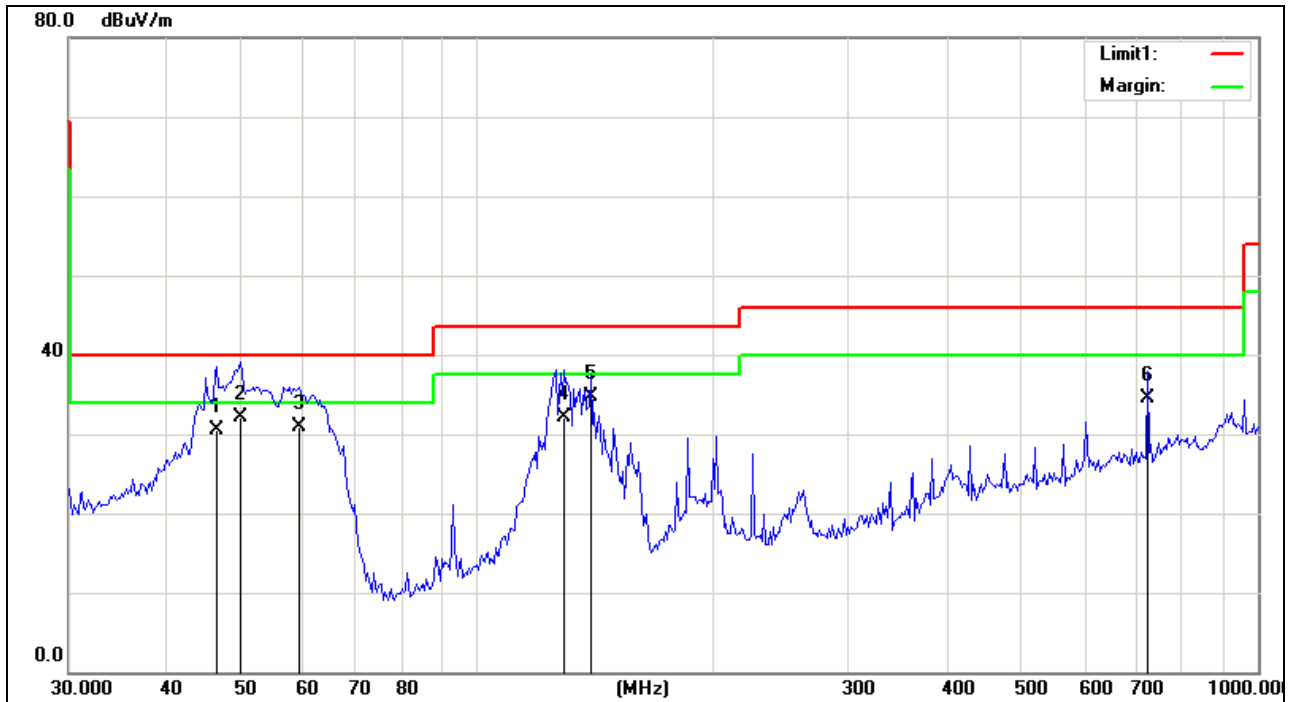


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0291	19.52	13.07	32.59	43.50	-10.91	peak
2	139.9011	21.96	12.54	34.50	43.50	-9.00	peak
3	225.5613	16.39	12.89	29.28	46.00	-16.72	peak
4	326.8424	14.50	15.38	29.88	46.00	-16.12	peak
5	428.0385	14.95	17.60	32.55	46.00	-13.45	peak
6	721.8557	13.32	22.15	35.47	46.00	-10.53	peak

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13461.870	27.25	20.27	47.52	74.00	-26.48	peak
2	16546.911	28.30	18.15	46.45	74.00	-27.55	peak
3	18440.088	29.06	18.90	47.96	74.00	-26.04	peak
4	21305.467	27.94	20.78	48.72	74.00	-25.28	peak
5	22901.035	27.21	22.11	49.32	74.00	-24.68	peak
6	24363.438	26.90	23.49	50.39	74.00	-23.61	peak

Project No.:	E201510156977	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	16:22:33
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2462MHz		
Test By:	Brian Xiao		

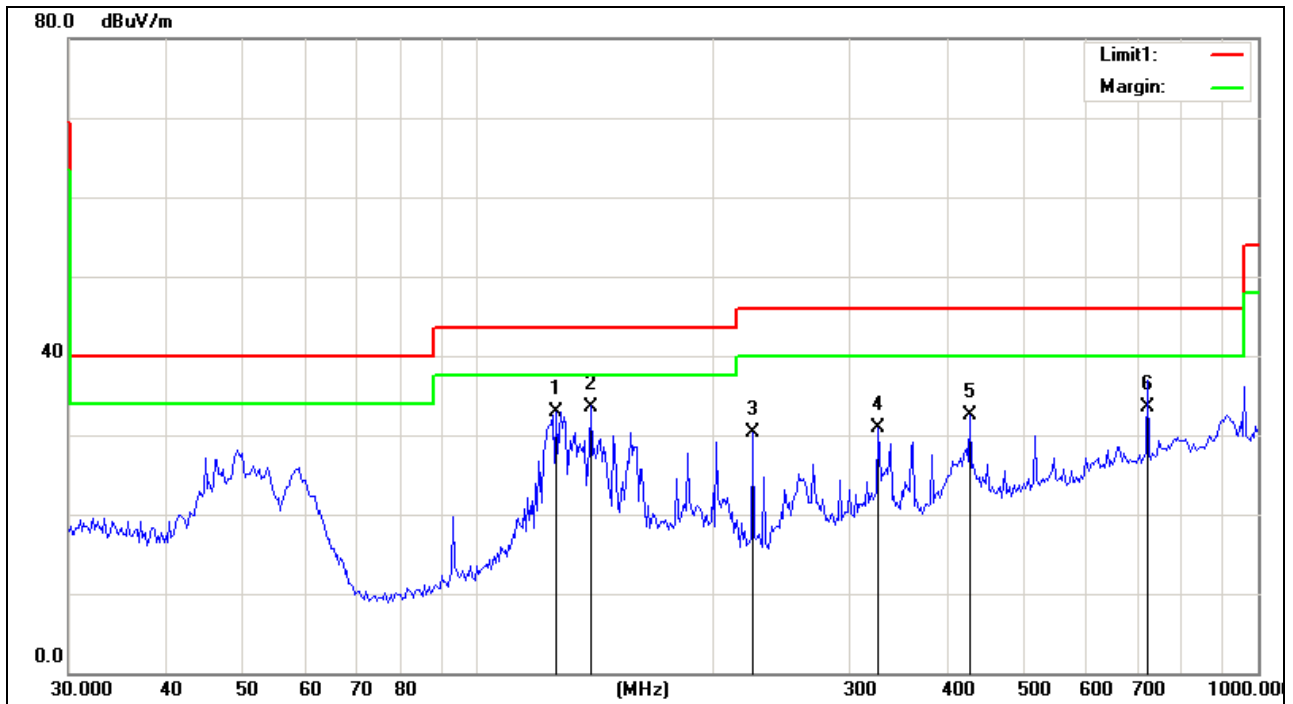


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	46.5030	17.97	12.53	30.50	40.00	-9.50	QP
2	49.7470	20.85	11.25	32.10	40.00	-7.90	QP
3	59.2138	21.42	9.48	30.90	40.00	-9.10	QP
4	129.3165	18.91	13.19	32.10	43.50	-11.40	QP
5	139.9011	22.26	12.54	34.80	43.50	-8.70	QP
6	721.8557	12.35	22.15	34.50	46.00	-11.50	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	12079.789	28.59	17.51	46.10	74.00	-27.90	peak
2	13392.606	27.10	20.19	47.29	74.00	-26.71	peak
3	16125.585	28.73	17.54	46.27	74.00	-27.73	peak
4	18345.211	28.55	18.96	47.51	74.00	-26.49	peak
5	22203.088	27.74	21.48	49.22	74.00	-24.78	peak
6	22901.035	27.53	22.11	49.64	74.00	-24.36	peak

Project No.:	E201510156977	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-11-16
Temp./Hum.(%RH):	23.9/57%RH	Time:	16:24:07
EUT:	SPOT	Distance:	3m
Model:	iSC5	Test Result:	Pass
Note:	802.11g Mode 2462MHz		
Test By:	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	126.4422	19.87	13.11	32.98	43.50	-10.52	peak
2	139.9011	21.06	12.54	33.60	43.50	-9.90	QP
3	225.5613	17.37	12.89	30.26	46.00	-15.74	peak
4	326.8424	15.58	15.38	30.96	46.00	-15.04	peak
5	428.0385	14.86	17.60	32.46	46.00	-13.54	peak
6	721.8557	11.45	22.15	33.60	46.00	-12.40	QP

Emission above 1GHz:

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13323.699	28.29	20.11	48.40	74.00	-25.60	peak
2	18156.918	28.76	19.09	47.85	74.00	-26.15	peak
3	21305.467	28.04	20.78	48.82	74.00	-25.18	peak
4	22088.849	27.61	21.38	48.99	74.00	-25.01	peak
5	22783.205	27.41	22.01	49.42	74.00	-24.58	peak
6	24238.084	27.92	23.39	51.31	74.00	-22.69	peak