Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD

FCC 47 CFR PART 15 SUBPART C &

INDUSTRY CANADA RSS-210

TEST REPORT

For

Digitizer I/O device

Model SU6E-11H05AU-01A

Trade Name: lenovo

Issued to

Wistron Corporation 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

Issued by

Compliance Certification Services Inc.
No.11, Wu-Gong 6th Rd., Wugu Industrial Park,
New Taipei City 248, Taiwan (R.O.C.)
http://www.ccsrf.com
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Issued Date: October 9, 2012





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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 9, 2012	Initial Issue	ALL	Angel Cheng



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1 TEST RESULT CERTIFICATION

Wistron Corporation

Applicant: 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist,

New Taipei City 221, Taiwan R.O.C.

IC: 4182A-TP00045A1WD

Wistron Corporation

Manufacturer: 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist,

New Taipei City 221, Taiwan R.O.C.

Equipment Under Test: Digitizer I/O device

Trade Name: lenovo

Model: SU6E-11H05AU-01A

Date of Test: August 22 ~ October 8, 2012

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 15 Subpart C & Industry Canada RSS-210 Issue 8 December, 2010	No non-compliance noted			

We hereby certify that:

Willer Lee

Compliance Certification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The test results of this report relate only to the tested sample identified in this report.

Approved by: Reviewed by:

Miller Lee Gina Lo
Section Manager Section Manager

Compliance Certification Services Inc.

Compliance Certification Services Inc.



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2 EUT DESCRIPTION

Product	Digitizer I/O device
Trade Name	lenovo
Model Number	SU6E-11H05AU-01A
Power Supply	Power from power adapter. I/P: 100~240V, 1.3A, 50-60Hz O/P: 20V, 2.25A
Operating Frequency Range	531.25kHz, 562.50kHz, 593.75kHz
Antenna Specification	Loop Antenna
Note	The application is for limited module approval. The host PC device show as following: Tablet (Pad) Computer/ Brand Name: lenovo / Model: TP00045A1



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3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 Part 2, 15.207, 15.209.

The tests documented in this report were performed in accordance with IC RSS-210, IC RSS-Gen, IC RSS-102, IC RSS-Gen Issue 3, and ANSI C63.4 (2003).

This submittal(s) (test report) is intended for IC Certification with Industry Canada RSS-210.

3.1. DESCRIPTION OF TEST MODES

The EUT (model: SU6E-11H05AU-01A) had been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting mode was programmed. After verification, all tests were carried out with the worst case test modes as shown below 1GHz. RF ID: Channel 531.25kHz, 562.50kHz and 593.75kHz were chosen for full testing.



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4 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.1. MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site						
Name of Equipment Manufacturer		Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/16/2013		
Power Meter	Anritsu	ML2495A	1012009	04/26/2013		
Power Sensor	Anritsu	MA2411B	0917072	04/26/2013		

	3M Chamber Test Site						
Name of Equipment Manufactu		Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	E4446A	US42510268	11/15/2012			
EMI Test Receiver	R&S	ESCI	100064	03/01/2013			
Pre-Amplifier	Mini-Circults	ZFL-1000LN	SF350700823	01/13/2013			
Pre-Amplifier	MITEQ AFS44-00102650- 42-10P-44 1415367		1415367	11/20/2012			
Bilog Antenna	Sunol Sciences	JB3	A030105	10/03/2012			
Horn Antenna	EMCO	3117	00055165	01/11/2013			
Loop Antenna	EMCO	6502	8905/2356	06/10/2013			
Turn Table	CCS	CC-T-1F	N/A	N.C.R			
Antenna Tower	Antenna Tower CCS		N/A	N.C.R			
Controller	Controller CCS		N/A	N.C.R			
Site NSA	Site NSA CCS		N/A	12/23/2012			
Test S/W		EZ-EMC ((CCS-3A1RE)				

Conducted Emission room # B					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI	101073	07/31/2013	
LISN	R&S	ENV216	101054	06/06/2013	
LISN	EMCO	3825/2	9106-1809	07/03/2013	
ISN	FCC	FCC-TLISN-T2-02-09	100105	07/30/2013	
ISN	FCC	FCC-TLISN-T8-02-09	100106	07/31/2013	
Capacitive Voltage Probe	FCC	F-CVP-1	100185	03/25/2013	
Test S/W	S/W CCS-3A1-CE				



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4.2. MEASUREMENT

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.2575
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All	measurement facilities used to collect the measurement data are located at
	No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
\boxtimes	No.11, Wu-Gong 6th Rd., Wugu Industrial Park, New Taipei City 248, Taiwan (R.O.C.) Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
	No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN, R.O.C. Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

5.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



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5.3. TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA FCC		3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method –47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	Testing Laboratory 1309
Canada Industry Canada 3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G		3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

Note: No part of this report may be used to claim or imply product endorsement by A2LA, TAF or other government agency.



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6 SETUP OF EQUIPMENT UNDER TEST

6.1. SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2. SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	LCD Monitor	DELL	3008WFP	CN-0XK290-71618-846-169L	FCC DoC	Unshielded, 1.8m	Shielded, 1.8m
2.	Earphone	Logitech	N/A	N/A	N/A	Non-shd, 1.8 m	N/A
3.	HDD	WD	My Passport	WX21A11V0883	N/A	Non-shd, 1.8 m	N/A

Remark: Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



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7 APPLICABLE RULES

RSS-210 §2 General Certification Requirements and Specifications

RSS-210 §2.1 RSS-Gen Compliance

In addition to RSS-210, the requirements in RSS-Gen, General Requirements and Information for the Certification of Radio Apparatus, must be met.

RSS-210 §2.2 Emissions Falling Within Restricted Frequency Bands

Category I licence-exempt equipment is required to comply with the provisions in RSS-Gen with respect to emissions falling within restricted frequency bands. These restricted frequency bands are listed in RSS-Gen.

RSS-210 §2.3 Receivers

Category I equipment receivers for use with transmitters subject to RSS-210 must comply with the applicable requirements set out in RSS-Gen and be certified under RSS-210. Category II equipment receivers for use with transmitters subject to RSS-210 are exempt from certification, but are subject to compliance with RSS-Gen and RSS-310.

RSS-210 §2.5 General Field Strength Limits

RSS-Gen includes the general field strength limits of unwanted emissions, where applicable, for transmitters and receivers operating in accordance with the provisions specified in this standard. Unwanted emissions of transmitters and receivers are permitted to fall within the restricted bands listed in RSS-Gen, and including the TV bands, but fundamental emissions are prohibited in the restricted bands.

RSS-210 §2.5.1 Transmitters with Wanted Emissions that are Within the General Field Strength Limits

Whether or not their operation is addressed by published RSS standards, transmitters whose wanted and unwanted emissions are within the general field strength limits shown in RSS-Gen, they may operate in any of the frequency bands, other than the restricted bands listed in RSS-Gen and including the TV bands, and shall be certified under RSS-210. Under no conditions may the level of any unwanted emissions exceed the level of the fundamental emission.

Note: Devices operating below 490 kHz in which all emissions are at least 40 dB below the limit listed in RSS-Gen (General Field Strength Limits for Transmitters at Frequencies below 30 MHz) are Category II devices and are subject to RSS-310.



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RSS-210 §2.7 Tables

RSS-210 §Annex 8: Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands

This section applies to systems that employ frequency hopping (FH) and digital modulation technology in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. Systems in these bands may employ frequency hopping, digital modulation and or a combination (hybrid) of both techniques.

A frequency hopping system that synchronizes with another or several other systems (to avoid frequency collision among them) via off-air sensing or via connecting cables is not hopping randomly and therefore is not in compliance with RSS-210.

RSS-210 §A8.1 Frequency Hopping Systems

Frequency hopping systems are spread spectrum systems in which the carrier is modulated with coded information in a conventional manner causing a conventional spreading of the RF energy about the carrier frequency. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence.

Frequency hopping systems are not required to employ all available hopping frequencies during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream.

Incorporation of intelligence into a frequency hopping system that enables it to recognize other users of the band and to avoid occupied frequencies is permitted, provided that the frequency hopping system does it individually, and independently chooses or adapts its hopset. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

The following applies to frequency hopping systems in each of the three bands.

- (a) The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long term distribution appears evenly distributed.
- (b) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125 W. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.
- (d) Frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that a minimum of 15 hopping channels are used.

RSS-210 §A8.2 Digital Modulation Systems

These include systems employing digital modulation techniques resulting in spectral



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characteristics similar to direct sequence systems. The following applies to all three bands.

RSS-210 §A8.4 Transmitter Output Power and e.i.r.p. Requirements

- (4) For systems employing digital modulation techniques operating in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands, the maximum peak conducted power shall not exceed 1 W. Except as provided in Section A8.4(5), the e.i.r.p. shall not exceed 4 W. As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power (see RSS-Gen)
- (5) Point-to-point systems in the bands 2400-2483.5 MHz and 5725-5850 MHz are permitted to have an e.i.r.p. higher than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain directional antennas and not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be allowed to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

Note: "Fixed, point-to-point operation", excludes point-to-multipoint systems, omnidirectional applications and multiple co-located transmitters transmitting the same information.

RSS-210 §A8.5 Out-of-band Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required.

RSS-Gen §2 General Information

RSS-Gen §2.1.2 Category II Equipment

Category II equipment comprises radio devices where a standard has been prescribed but for which a TAC is not required, that is, equipment certification by Industry Canada or a Certification Body (CB) is not required (certification exempt), pursuant to subsection 4(3) of the Radiocommunication Act. The manufacturer or importer shall nevertheless ensure that the standards are complied with. A test report shall be available on request and the device shall be properly labelled.



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RSS-Gen §2.2 Receivers

Receivers that are used for radiocommunication other than broadcasting are defined as Category I equipment or Category II equipment, subject to compliance with applicable Industry Canada standards.

Receivers shall be capable of operation only with transmitters for which RSSs are published. Receivers are classified as described in sections 2.2.1 and 2.2.2.

RSS-Gen §2.2.1 Category I Equipment Receivers

A receiver is classified as Category I equipment if it meets one of the following conditions: (a) a stand-alone receiver (see Note 1, below), which operates on any frequency in the band 30-960 MHz, and is used for the reception of signals in that frequency band from a transmitter classified as Category I equipment;

- (b) a Citizen's Band (CB) receiver (26.96-27.410 MHz);
- (c) a scanner receiver.

Note 1: A stand-alone receiver is defined as any receiver that is not permanently combined together with a transmitter in a single case (transceiver), in which it functions as the receiver component of the transceiver.

Receivers classified as Category I equipment shall comply with the limits for receiver spurious emissions set out in RSS-Gen; however, equipment certification is granted under the applicable RSS standard along with the associated transmitter classified as Category I equipment. Scanner receivers are covered under their own specific RSS.

RSS-Gen §2.2.2 Category II Equipment Receivers

A receiver is classified as Category II equipment if it does not meet any of the conditions of Section 2.2.1.

Category II receivers shall comply with the applicable testing, labelling and user manual requirements in RSS-310.

RSS-Gen §2.2.3 Licence-exempt Receivers

Certain types of radio apparatus are permitted to operate without licensing from Industry Canada. These are typically low output power devices that are intended primarily for consumer or commercial applications; however, some are intended for applications in law enforcement, medical and other specialized applications.

Licence-exempt radio apparatus shares spectrum with licensed radio services and must operate on a no-interference, no-protection basis. Licence-exempt radio apparatus may not cause radio interference to, and cannot claim protection from interference caused by, licensed radio services. General requirements for licence-exempt radio apparatus are contained in Section 7.



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RSS-Gen §5.6 Exposure of Humans to RF Fields

Category I and Category II equipment shall comply with the applicable requirements of RSS-102.

RSS-Gen §6 Receiver Spurious Emission Standard

Receivers shall comply with the limits of spurious emissions set out in this section, measured over the frequency range determined in accordance with Section 4.10.

RSS-Gen §6.1 Radiated Limits

Radiated spurious emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals.

Spurious emissions from receivers shall not exceed the radiated limits shown in the table below:

RSS-Gen Table 2 - Spurious Emission Limits for Receivers

Frequency	Field Strength
(MHz)	microvolts/m at 3 metres
30-88	100
88-216	150
216-960	200
Above 960	500

^{*}Measurements for compliance with limits in the above table may be performed at distances other than 3 metres, in accordance with Section 7.2.7.



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RSS- Gen Table 3: Restricted Frequency Bands (Note)

MHz	MHz	MHz	MHz	GHz
0.090-0.110	8.37625-8.38675		1718.8-1722.2	9.0-9.2
	8.41425-8.41475	156.52475-156.52525	2200-2300	9.3-9.5
2.1735-2.1905	12.29-12.293	156.7-156.9	2310-2390	10.6-12.7
3.020-3.026	12.51975-12.52025			13.25-13.4
4.125-4.128	12.57675-12.57725		2655-2900	14.47-14.5
4.17725-4.17775	13.36-13.41	240-285	3260-3267	15.35-16.2
4.20725-4.20775	16.42-16.423	322-335.4	3332-3339	17.7-21.4
5.677-5.683	16.69475-16.69525	399.9-410	3345.8-3358	22.01-23.12
6.215-6.218	16.80425-16.80475	608-614	3500-4400	23.6-24.0
6.26775-6.26825	25.5-25.67	960-1427	4500-5150	31.2-31.8
6.31175-6.31225	37.5-38.25	1435-1626.5	5350-5460	36.43-36.5
8.291-8.294	73-74.6; 74.8-75.2	1645.5-1646.5	7250-7750	Above 38.6
8.362-8.366	108-138	1660-1710	8025-8500	

Note: Certain frequency bands listed in Table 2 and above 38.6 GHz are designated for low-power licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in this Standard as well as RSS-310.

RSS- Gen Table 5: General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

Frequency (MHz)	Field Strength (microvolt/m at 3 metres)		
30-88	100		
88-216	150		
216-960	200		
Above 960	500		

Note: Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands(54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).



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RSS- Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency (fundamental or spurious)	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/377F (F in Hz)	300
490-1.705 kHz	24,000/F (F in kHz)	24,000/377F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average detector.



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RSS-Gen §7.1.2 Transmitter Antenna

A transmitter can only be sold or operated with antennas with which it was approved. Transmitter may be approved with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest gain antenna of each combination of transmitter and antenna type for which approval is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type having equal or lesser gain as an antenna that had been successfully tested with the transmitter, will also be considered approved with the transmitter, and may be used and marketed with the transmitter. For Category I transmitters, the manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer.

For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power limits. User manuals for transmitters shall display the following notice in a conspicuous location:

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

The above notice may be affixed to the device instead of displayed in the user manual.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi) and required impedance for each.



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

RSS-Gen §7.2.4 Transmitter and Receiver AC Power Lines Conducted Emission Limits

Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The more stringent limit applies at the frequency range boundaries.

The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network (LISN).

RSS-Gen Table 4 – AC Power Line Conducted Emission Limits

Frequency Range	Conducted limit (dBμV)			
(MHz)	Quasi-peak	Average		
0.15 to 0.5	66 to 56*	56 to 46*		
0.5 to 5	56	46		
5 to 30	60	50		

^{*}Decreases with the logarithm of the frequency.

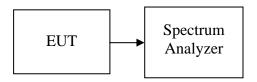
Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD

IC: 4182A-TP00045A1WD

8 RSS 210 REQUIREMENTS

8.1. 99% BANDWIDTH

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=20Hz, VBW = 62Hz, Span = 2kHz, Sweep = auto.
- 4. Record the max. reading.

TEST RESULTS

No non-compliance noted

TEST DATA

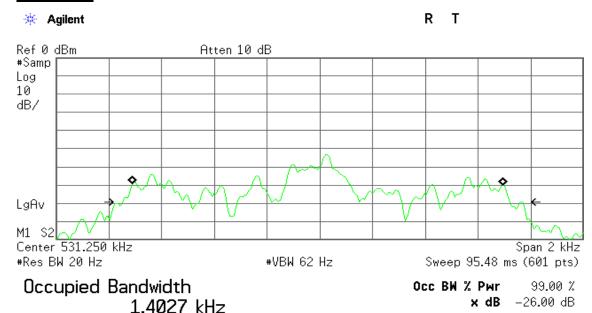
Frequency (KHz)	B (kHz)
531.25	1.4027
562.50	1.3992
593.75	1.3564



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

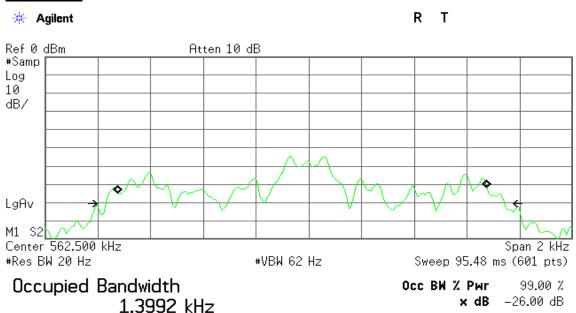
Test Plot

531.25 kHz



Transmit Freq Error -7.894 Hz x dB Bandwidth 1.513 kHz*

562.50 kHz

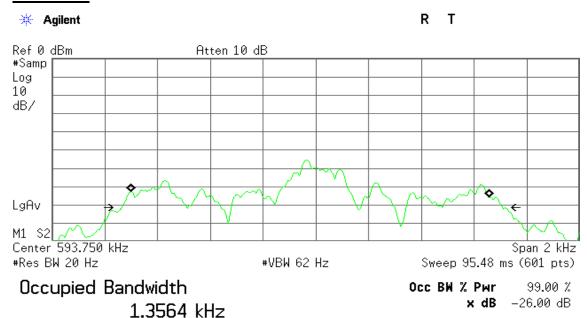


Transmit Freq Error -25.064 Hz x dB Bandwidth 1.509 kHz*



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

593.75 kHz



Transmit Freq Error -7.894 Hz x dB Bandwidth 1.513 kHz*



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD

IC: 4182A-TP00045A1WD

8.2. RADIATED EMISSIONS

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	MEASUREMENT DISTANCE (M)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the emission table above, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD

IC: 4182A-TP00045A1WD

RSS-Gen Table 5: General Field Strength Limits for Transmitters at

Frequencies Above 30 MHz (Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres
30-88	100
88-216	150
216-960	200
Above 960	500

Note: Transmitting devices are not permitted in restricted frequency bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microvolts/m)	Measurement Distance (metres)
9-490 kHz	2,400/F(F in kHz)	2,400/377F(F in kHz)	300
490-1,705 kHz	2,4000/F(F in kHz)	2,4000/377F(F in kHz)	30
1.705-30 MHz	30	N/A	30

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average detector.

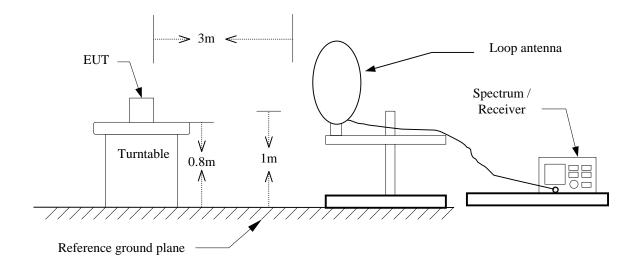
Report No.: T120813W01-RP2

FCC ID: PU5-TP00045A1WD

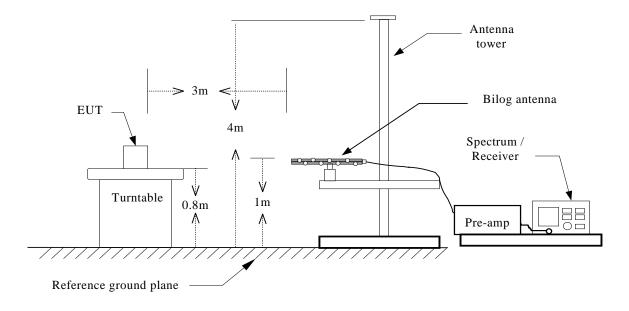
IC: 4182A-TP00045A1WD

TEST CONFIGURATION

$9kHz \sim 30MHz$



30MHz ~ **1 GHz**



(G

Compliance Certification Services Inc.

Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

TEST PROCEDURE

For $9kHz \sim 30MHz$

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, The center of the loop shall be 1 m above the ground then to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by rotated of receiving antenna axis
- 6. Set the spectrum analyzer in the following setting as: RBW=10kHz / VBW=30kHz / Sweep=AUTO
- 7. Repeat above procedures until the measurements for all frequencies are complete.

For $30MHz \sim 1GHz$

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as: RBW=100kHz / VBW=300kHz / Sweep=AUTO
- 7. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

No non-compliance noted.



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

TEST DATA

Operation Mode: TX mode (531.25kHz) **Test Date:** September 20, 2012

Temperature: 27°C **Tested by:** Shawn Wu **Humidity:** 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
0.5312	20.23	25.08	45.31	73.1	-27.79	Peak
7.3265	13.00	6.81	19.81	69.50	-49.69	Peak
10.8185	7.29	6.09	13.38	69.50	-56.12	Peak
11.8513	6.92	5.95	12.87	69.50	-56.63	Peak
19.3272	3.67	5.41	9.08	69.50	-60.42	Peak
24.8848	5.58	5.48	11.06	69.50	-58.44	Peak

Remark: 1. Measuring frequencies from 9kHz to the 1GHz.

- 2. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Margin(dB) = Result(dBuV/m) Limit(dBuV/m).
- 5. 531.25kHz Limit=20 log (24000/531.25)+40 log (30/3) =73.10



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Operation Mode: TX mode (562.5kHz) **Test Date:** September 20, 2012

Temperature: 27°C **Tested by:** Shawn Wu

Humidity: 53 % RH

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
0.5625	21.09	24.51	45.6	72.61	-27.01	Peak
7.3265	13.07	6.81	19.88	69.50	-49.62	Peak
11.8022	7.11	5.96	13.07	69.50	-56.43	Peak
15.7368	3.26	5.53	8.79	69.50	-60.71	Peak
21.8848	3.49	5.42	8.91	69.50	-60.59	Peak
25.1308	5.39	5.51	10.90	69.50	-58.60	Peak

Remark: 1. Measuring frequencies from 9kHz to the 1GHz.

- 2. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Margin(dB) = Result(dBuV/m) Limit(dBuV/m).
- 5. 562.5 kHz Limit=20 log (24000/562.5)+40 log (30/3) =72.61



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Operation Mode: TX mode (593.75kHz) **Test Date:** October 8,2012

Temperature: 27°C **Tested by:** Shawn Wu

Humidity: 53 % RH

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
0.5937	42.18	23.94	66.12	72.13	-6.01	Peak
2.4081	34.08	12.10	46.18	69.50	-23.32	Peak
3.5886	27.26	9.34	36.60	69.50	-32.90	Peak
7.4250	20.10	6.79	26.89	69.50	-42.61	Peak
9.5890	13.56	6.29	19.85	69.50	-49.65	Peak
14.2120	9.82	5.65	15.47	69.50	-54.03	Peak

Remark: 1. Measuring frequencies from 9kHz to the 1GHz.

- 2. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Margin(dB) = Result(dBuV/m) Limit(dBuV/m).
- 5. 593.7 kHz Limit=20 log (24000/593.7)+40 log (30/3) =72.13



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Operation Mode: Normal Link (531.25kHz) **Test Date:** September 20, 2012

Temperature: $27^{\circ}C$ **Tested by:** Shawn Wu

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Ant.Pol. H/V	Detector Mode (PK/QP)	
144.7833	36.86	-12.84	24.02	43.50	-19.48	V	Peak	
204.6000	32.64	-12.68	19.96	43.50	-23.54	V	Peak	
319.3833	30.17	-10.83	19.34	46.00	-26.66	V	Peak	
448.7167	31.28	-8.66	22.62	46.00	-23.38	V	Peak	
799.5333	28.58	-4.34	24.24	46.00	-21.76	V	Peak	
914.3167	27.77	-2.94	24.83	46.00	-21.17	V	Peak	
146.4000	34.82	-12.88	21.94	43.50	-21.56	Н	Peak	
319.3833	34.18	-10.83	23.35	46.00	-22.65	Н	Peak	
356.5667	34.56	-10.19	24.37	46.00	-21.63	Н	Peak	
443.8667	37.18	-8.75	28.43	46.00	-17.57	Н	Peak	
665.3500	29.26	-5.97	23.29	46.00	-22.71	Н	Peak	
799.5333	36.20	-4.34	31.86	46.00	-14.14	Н	Peak	

- 1. No emission found between lowest internal used / generated frequency to 30 MHz. ($9kHz \sim 30MHz$)
- 2. Measuring frequencies from 30 MHz to the 1GHz.
- Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be
- The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Operation Mode: Normal Link (562.5kHz) Test Date: September 20, 2012

Temperature: 27°C **Tested by:** Shawn Wu

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m Safe Margin (dBuV/m) (dB)		Ant.Pol. H/V	Detector Mode (PK/QP)	
133.4667	35.70	-12.62	23.08	43.50	-20.42	V	Peak	
146.4000	36.15	-12.88	23.27	43.50	-20.23	V	Peak	
319.3833	29.26	-10.83	18.43	46.00	-27.57	V	Peak	
448.7167	30.90	-8.66	22.24	46.00	-23.76	V	Peak	
663.7333	28.87	-5.98	22.89	46.00	-23.11	V	Peak	
869.0500	26.53	-3.44	23.09	46.00	-22.91	V	Peak	
319.3833	33.48	-10.83	22.65	46.00	-23.35	Н	Peak	
432.5500	34.46	-8.98	25.48	46.00	-20.52	Н	Peak	
455.1833	33.84	-8.58	25.26	46.00	-20.74	Н	Peak	
663.7333	27.95	-5.98	21.97	46.00	-24.03	Н	Peak	
867.4333	36.16	-3.45	32.71	46.00	-13.29	Н	Peak	
912.7000	29.18	-2.96	26.22	46.00	-19.78	Н	Peak	

- 1. No emission found between lowest internal used / generated frequency to 30 MHz. ($9kHz \sim 30MHz$)
- 2. Measuring frequencies from 30 MHz to the 1GHz.
- 3. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured
- 5. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Operation Mode: Normal Link (593.75kHz) Test Date: October 8,2012

Temperature: 27°C **Tested by:** Shawn Wu

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)	Ant.Pol. H/V	Detector Mode (PK/QP)
133.4667	35.53	-12.62	22.91	43.50	-20.59	V	Peak
152.8667	35.87	-13.05	22.82	43.50	-20.68	V	Peak
214.3000	33.03	-13.34	19.69	43.50	-23.81	V	Peak
424.4667	30.97	-9.14	21.83	46.00	-24.17	V	Peak
448.7167	31.06	-8.66	22.40	46.00	-23.60	V	Peak
666.9667	28.61	-5.95	22.66	46.00	-23.34	V	Peak
				4400			
222.3833	33.93	-13.67	20.26	46.00	-25.74	Н	Peak
351.7167	32.93	-10.26	22.67	46.00	-23.33	Н	Peak
455.1833	34.48	-8.58	25.90	46.00	-20.10	Н	Peak
631.4000	31.50	-6.49	25.01	46.00	-20.99	Н	Peak
665.3500	34.49	-5.97	28.52	46.00	-17.48	Н	Peak
799.5333	36.24	-4.34	31.90	46.00	-14.10	Н	Peak

- 1. No emission found between lowest internal used / generated frequency to 30 MHz. ($9kHz \sim 30MHz$)
- 2. Measuring frequencies from 30 MHz to the 1GHz.
- 3. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



Report No.: T120813W01-RP2

FCC ID: PU5-TP00045A1WD

IC: 4182A-TP00045A1WD

8.3. POWERLINE CONDUCTED EMISSIONS

LIMIT

According to RSS-Gen §7.2.2, except when the requirements applicable to a given device state otherwise, for any licence-exempt radiocommunication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network. A description of the method of measurement that is acceptable to Industry Canada is found in RSS-Gen Issue 3.

RSS-Gen Table 2 – AC Power Lines Conducted Emission Limits

Frequency Range	Conducted limit (dBµV)					
(MHz)	Quasi-peak	Average				
0.15 to 0.5	66 to 56*	56 to 46*				
0.5 to 5	56	46				
5 to 30	60	50				

^{*}Decreases with the logarithm of the frequency

TEST CONFIGURATION

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.



Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

TEST DATA

Operation Mode: Charging Test Date: August 22, 2012

Temperature: 24°C **Tested by:** York Lin

Humidity: 50% RH

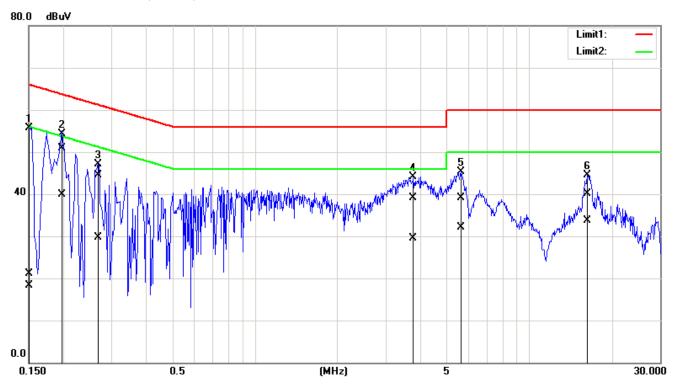
Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1497	11.23	8.48	9.87	21.10	18.35	66.01	56.02	-44.91	-37.67	L1
0.2006	41.09	29.99	9.87	50.96	39.86	63.58	53.59	-12.62	-13.73	L1
0.2661	34.64	19.73	9.88	44.52	29.61	61.24	51.24	-16.72	-21.63	L1
3.8115	29.14	19.55	10.01	39.15	29.56	56.00	46.00	-16.85	-16.44	L1
5.7131	28.99	22.13	10.07	39.06	32.20	60.00	50.00	-20.94	-17.80	L1
16.2577	29.81	23.43	10.30	40.11	33.73	60.00	50.00	-19.89	-16.27	L1
0.1502	41.07	19.48	9.63	50.70	29.11	65.98	55.99	-15.28	-26.88	L2
0.1925	42.44	30.63	9.64	52.08	40.27	63.92	53.93	-11.84	-13.66	L2
0.4309	27.76	11.94	9.66	37.42	21.60	57.23	47.24	-19.81	-25.64	L2
3.4612	29.87	19.53	9.78	39.65	29.31	56.00	46.00	-16.35	-16.69	L2
5.3947	31.17	24.60	9.85	41.02	34.45	60.00	50.00	-18.98	-15.55	L2
16.0448	28.11	22.21	10.16	38.27	32.37	60.00	50.00	-21.73	-17.63	L2

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
 - 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
 - 3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
 - 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

Report No.: T120813W01-RP2 FCC ID: PU5-TP00045A1WD IC: 4182A-TP00045A1WD

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

