FCC EMC TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

OEM Module(Wireless Charging)

ISSUED TO Neosen Energy LLC

1506 Capital Ave., Suite 150, Plano, TX, 75074



Tested by:

Cao Shaddong

(Engineer)

Date Mully

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(Chief Engineer)

Date Mully

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(Chief Engineer)

Report No.: EUT Type: Model Name: Brand Name: Test Standard: FCC ID:

BL-SZ1570123-601
OEM Module(Wireless Charging)
NEO-020-1-3-1-3-2-DUP
Dupont
FCC Part 15 C

Test conclusion:
Test Date:
Date of Issue:

Nov. 2, 2015 ~ Nov. 11, 2015 Nov. 12, 2015

2AF63DUPONT

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Revision History

VersionIssue DateRevisionsRev. 01Nov. 12, 2015Initial Issue

TABLE OF CONTENTS

1	GE	NERAL INFORMATION	4
	1.1	Identification of the Testing Laboratory	4
	1.2	Identification of the Responsible Testing Location	4
	1.3	Laboratory Condition	4
	1.4	Announce	4
2	PR	ODUCT INFORMATION	6
	2.1	Applicant Information	6
	2.2	Manufacturer Information	6
	2.3	Factory Information	6
	2.4	General Description for Equipment under Test (EUT)	6
	2.5	Ancillary Equipment	6
	2.6	Technical Information	6
3	SU	MMARY OF TEST RESULTS	7
	3.1	Test Standards	7
	3.2	Verdict	7
	3.3	Test Uncertainty	7
4	GE	NERAL TEST CONFIGURATIONS	8
	4.1	Test Environments	8
	4.2	Test Equipment List	8
	4.3	Test Enclosure list	9
	4.4	Test Configurations	9
	4.5	Test Setups	10
	4.6	Test Conditions	12
5	TE	ST ITEMS	13
	5.1	Emission Tests	13

Report No.: BL-SZ1570123-601



ANNEX	Α	TEST RESULTS	16
A.1	Rac	liated Emission	16
A.2	Cor	ducted Emission	22
A.3	20 (dB Bandwidth	26
ANNEX	В	TEST SETUP PHOTOS	28
ANNEX	С	EUT EXTERNAL PHOTOS	28
ANNEX	D	EUT INTERNAL PHOTOS	28



1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Addroop	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.	
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,	
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China	
	The laboratory has been listed by Industry Canada to perform	
	electromagnetic emission measurements. The recognition numbers of	
	test site are 11524A-1.	
	The laboratory has been listed by US Federal Communications	
	Commission to perform electromagnetic emission measurements. The	
	recognition numbers of test site are 832625.	
Accreditation Certificate	The laboratory has met the requirements of the IAS Accreditation	
	Criteria for Testing Laboratories (AC89), has demonstrated	
	compliance with ISO/IEC Standard 17025:2005. The accreditation	
	certificate number is TL-588.	
	The laboratory is a testing organization accredited by China National	
	Accreditation Service for Conformity Assessment (CNAS) according to	
	ISO/IEC 17025. The accreditation certificate number is L6791.	
	All measurement facilities used to collect the measurement data are	
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe	
Decomption	Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R.	
	China 518055	

1.3 Laboratory Condition

Ambient Temperature	20°C~25°C
Ambient Relative Humidity	45% - 55%
Ambient Pressure	100 kPa - 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v1.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of



operation as described herein.

- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Neosen Energy LLC
Address	1506 Capital Ave., Suite 150, Plano, TX, 75074

2.2 Manufacturer Information

	Manufacturer	Dongguan Superior Manufacturing Technology Co., Ltd	
	A ddraga	14 Hongye Road North, Hongye Industrial Zone, Tangxia Town,	
	Address	Dongguan, Guangdong, PRC.	

2.3 Factory Information

Factory	Dongguan Superior Manufacturing Technology Co., Ltd
Address	14 Hongye Road North, Hongye Industrial Zone, Tangxia Town,
Address	Dongguan, Guangdong, PRC.

2.4 General Description for Equipment under Test (EUT)

EUT Type	OEM Module(Wireless Charging)
Model Name	NEO-020-1-3-1-3-2-DUP
Hardware Version	01
Software Version	1508a_TX1Coil_Qi_DuPont_FOD_enc.bin
Network and Wireless	Wireless sharping
connectivity	Wireless charging

2.5 Ancillary Equipment

	Charger	
	Brand Name	Helms-man
Ancillant Fauinment 1	Model No.	SND1901350P2
Ancillary Equipment 1	Serial No.	N/A
	Rated Input	100-240 V~, 2.5 A, 50/60 Hz
	Rated Output	19 V=,1.35 A

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Operating Frequency	110~205 kHz
Antenna Type	Coil Antenna
Antenna Gain	0 dBi
About Droduct	The EUT support the QI and PMA technology, and they have the same
About Product	operating frequency.



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title	
4	47 CFR Part 15,	Intentional Radiators	
1	Subpart C		
	ANSI C63.4-2014	American National Standard for Standard for Methods of	
2		Measurement of Radio-Noise Emissions from Low-Voltage	
2		Electrical and Electronic Equipment in the Range of 9 kHz to	
		40 GHz	
	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless	
3		Devices	

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.209,15.215(b)	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.207	Pass	Annex A .2
3	20 dB Bandwidth	15.215(c)	Pass	Annex A .3

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	2.79 dB
Radiated emissions (30 MHz-1 GHz)	3.45 dB
Radiated emissions (1 GHz-18 GHz)	3.67 dB



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

Relative Humidity	45% - 55%				
Atmospheric Pressure	100 kPa - 102 kPa				
Temperature	NT (Normal Temperature)	+22°C to +25°C			
Working Voltage of the EUT	NV (Normal Voltage)	19 V			

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13
Test Antenna- Loop(9 kHz- 30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21
Test Antenna- Horn(1- 18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21
Test Antenna- Horn(15- 26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21
Anechoic Chamber	RAINFORD	9 m*6 m*6 m	N/A	2015.02.28	2016.02.27
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2015.07.14	2016.07.13
LISN	SCHWARZBECK	NSLK 8127	8127-687	2015.07.14	2016.07.13
AMN	SCHWARZBECK	NNBM8124	8124-509	2015.07.14	2016.07.13
AMN	SCHWARZBECK	NNBM8124	8124-510	2015.07.14	2016.07.13
ISN	TESEQ	ISN T800	34449	2015.07.14	2016.07.13
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A



4.3 Test Enclosure list

Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	N/A	N/A	N/A	N/A	Special Handled	
Printer	HP	DESKJET 1000	N/A	N/A	N/A	
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	
Mouse	Logitech	M100	N/A	N/A	N/A	
USB disk	Kingston	N/A	N/A	N/A	N/A	
TF Card	Kingston	N/A	N/A	N/A	N/A	
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
QI Load	N/A	N/A	N/A	N/A	5W	\boxtimes
PMA Load	N/A	N/A	N/A	N/A	N/A	\boxtimes
Phone	N/A	M.T.T	N/A	N/A	N/A	\boxtimes

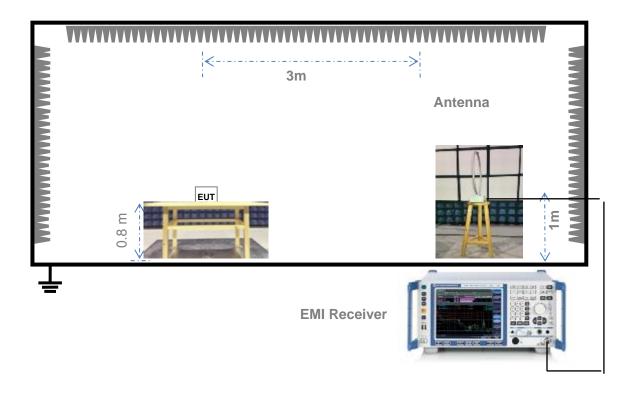
4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	The QI Test Mode The EUT configuration of the emission tests is EUT + QI Load + Charger. During the measurement, the EUT is connected with the QI load and recharge for the QI
TC02	load. The EUT is also connected with the charger and working normally. The PMA Test Mode The EUT configuration of the emission tests is EUT + RMA Load + Charger + Phone. During the measurement, a communication link was established between the EUT and phone, and the phone is connected with the PMA. The EUT is recharging for the phone during the test.



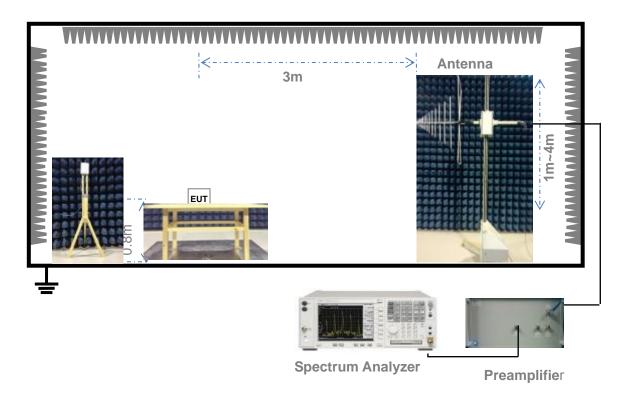
4.5 Test Setups

Test Setup 1



For Radiated Emission Test (Below 30 MHz))

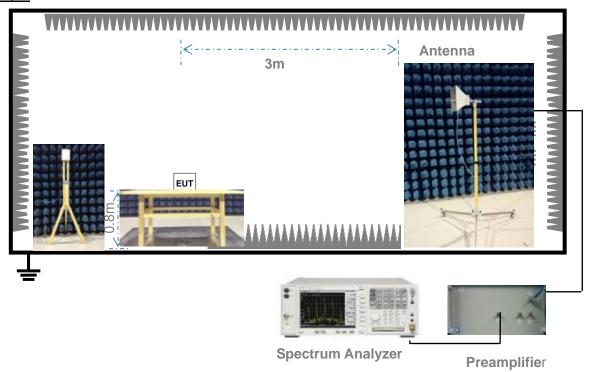
Test Setup 2



(For Radiated Emission Test (30 MHz-1 GHz))

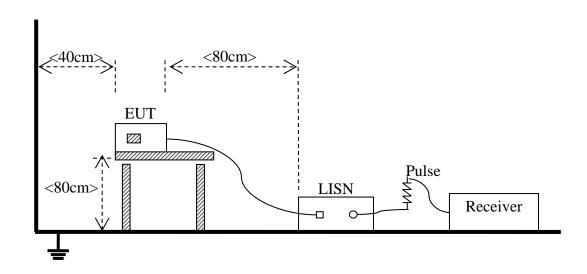


Test Setup 3



(For Radiated Emission Test (above 1 GHz))

Test Setup 4



(For Conducted Emission, AC Ports Test)



4.6 Test Conditions

Test Case	Test Conditions				
	Test Env.	NTNV			
Radiated Emission	Test Setup	Test Setup 1&3			
	Test Configuration	TC01~TC02 Note			
Conducted Emission AC	Test Env.	NTNV			
Conducted Emission, AC	Test Setup	Test Setup 4			
Ports	Test Configuration	TC01~TC02 Note			
	Test Env.	NTNV			
20 dB Bandwidth	Test Setup	Test Setup 1			
	Test Configuration	TC01~TC02 Note			

Note: Based on client request, all normal using modes of the normal function were tested, but only the worst test data of test mode is reported in this report. And the QI test mode and PMA test mode are the worst mode this report.



5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

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

NOTE:

- 1) Field Strength ($dB\mu V/m$) = 20*log [Field Strength ($\mu V/m$)].
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For above 1000 MHz, limit field strength of harmonics: 54 dBuV/m@3 m (AV) and 74 dBuV/m@3 m (PK)

5.1.1.2 Test Setup

Refer to 4.5 section (test setups1 to test setups3) for radiated emission test, The photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.1.1.4 Test Result

Please refer to ANNEX A.1.



5.1.2 Conducted Emission

5.1.2.1 Test Limit

Frequency range	Conducted Limit (dBµV)					
(MHz)	Quasi-peak	Average				
0.15 - 0.50	66 to 56	56 to 46				
0.50 - 5	56	46				
5 - 30	60	50				

NOTE:

- 1) The limit is applicable to Class B ITE.
- 2) The lower limit shall apply at the band edges.
- 3) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 4) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides $50 \Omega/50 \mu H$ of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

5.1.2.4 Test Result

Please refer to ANNEX A.2.



5.1.3 20 dB Bandwidth

5.1.3.1 Limit

FCC §15.215(c)

The 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth (10*log1%=20 dB) taking the total RF output power.

5.1.3.2 Test Setup

Refer to 4.5 section test (test setup 5) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.1.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.1.3.4 Test Result

Please refer to ANNEX A.3.



ANNEX A TEST RESULTS

A.1 Radiated Emission

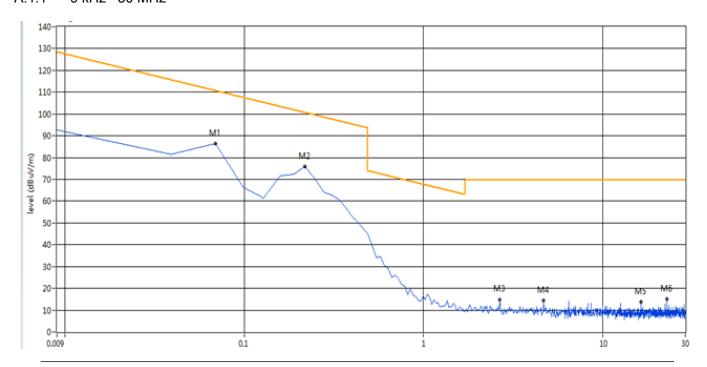
Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Test Data and Plots

QITEST MODE

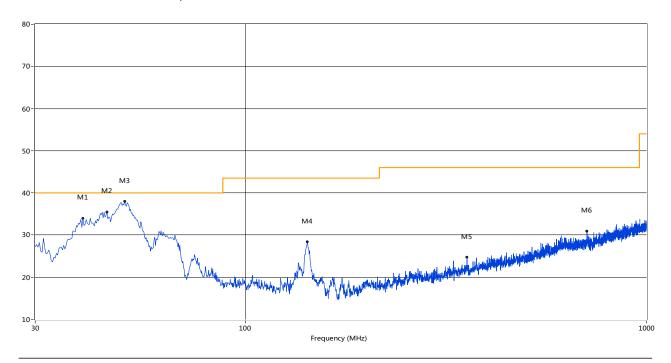
A.1.1 9 kHz -30 MHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	0.07	86.40	28.56	124.2	37.80	Peak	258.00	100	Vertical	Pass
2	0.22	75.96	38.29	113.4	37.44	Peak	129.00	100	Vertical	Pass
3	2.67	14.69	-34.84	69.5	54.81	Peak	59.00	100	Vertical	Pass
4	4.67	14.33	-34.55	69.5	55.17	Peak	192.00	100	Vertical	Pass
5	16.33	13.86	-33.61	69.5	55.64	Peak	251.00	100	Vertical	Pass
6	22.82	15.03	-33.61	69.5	54.47	Peak	283.00	100	Vertical	Pass



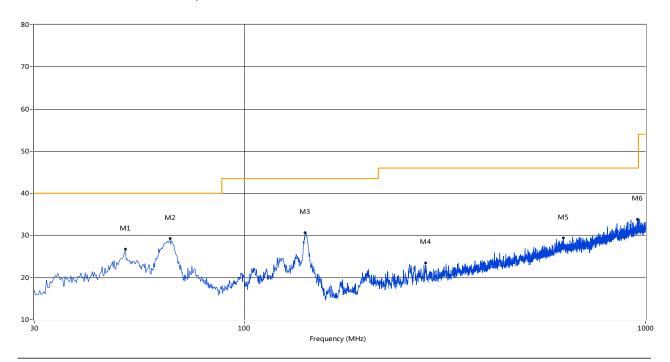
A.1.2 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	39.46	33.91	-19.91	40.0	6.09	Peak	359.90	100	Vertical	Pass
2	45.27	35.47	-18.79	40.0	4.53	Peak	355.80	100	Vertical	N/A
2*	45.27	34.35	-18.79	40.0	5.65	QP	355.80	100	Vertical	Pass
3	50.12	37.94	-18.66	40.0	2.06	Peak	353.50	100	Vertical	Pass
4	142.98	28.37	-23.54	43.5	15.13	Peak	55.10	100	Vertical	Pass
5	357.29	24.72	-16.17	46.0	21.28	Peak	174.90	100	Vertical	Pass
6	711.01	30.92	-8.88	46.0	15.08	Peak	24.70	100	Vertical	Pass



A.1.3 Test Antenna Horizontal, 30 MHz – 1 GHz

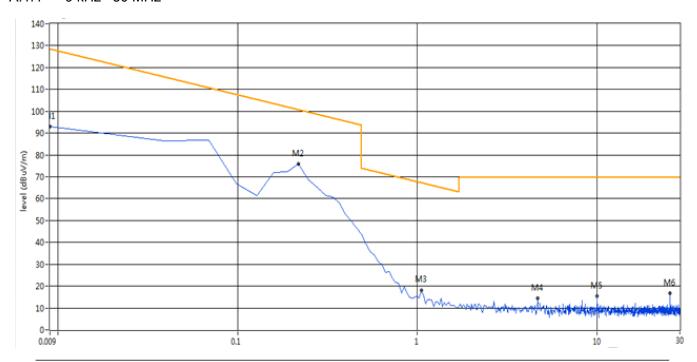


No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	50.61	26.78	-18.67	40.0	13.22	Peak	2.20	100	Horizontal	Pass
2	65.40	29.28	-20.84	40.0	10.72	Peak	62.40	100	Horizontal	Pass
3	142.01	30.71	-23.64	43.5	12.79	Peak	72.80	100	Horizontal	Pass
4	283.35	23.44	-18.28	46.0	22.56	Peak	263.60	100	Horizontal	Pass
5	624.95	29.40	-10.27	46.0	16.60	Peak	358.60	100	Horizontal	Pass
6	954.66	33.88	-5.12	46.0	12.12	Peak	2.20	100	Horizontal	Pass



PMA TEST MODE

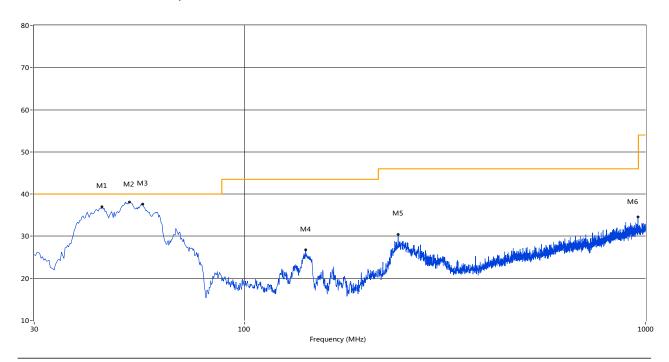
A.1.4 9 kHz –30 MHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	0.01	92.88	29.54	128.5	35.62	Peak	314.00	100	Vertical	Pass
2	0.22	75.80	38.29	113.4	37.60	Peak	302.00	100	Vertical	Pass
3	1.06	18.02	-26.86	68.8	50.78	Peak	249.00	100	Vertical	Pass
4	4.67	14.55	-34.55	69.5	54.95	Peak	164.00	100	Vertical	Pass
5	10.06	15.46	-33.80	69.5	54.04	Peak	231.00	100	Vertical	Pass
6	25.51	16.63	-33.56	69.5	52.87	Peak	241.00	100	Vertical	Pass



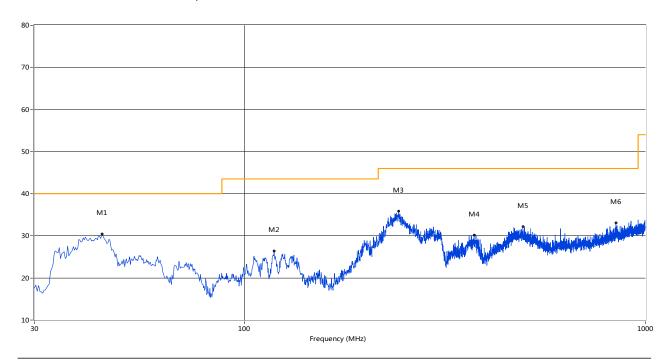
A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	44.30	36.98	-18.82	40.0	3.02	Peak	272.70	100	Vertical	Pass
2	51.82	38.11	-18.64	40.0	1.89	Peak	297.00	100	Vertical	N/A
2*	51.82	36.26	-18.64	40.0	3.75	QP	297.00	100	Vertical	Pass
3	55.94	37.61	-19.30	40.0	2.39	Peak	178.40	100	Vertical	N/A
3*	55.94	35.84	-19.30	40.0	4.16	QP	178.40	100	Vertical	Pass
4	142.25	26.73	-23.62	43.5	16.77	Peak	27.40	100	Vertical	Pass
5	242.13	30.42	-19.13	46.0	15.58	Peak	359.20	100	Vertical	Pass
6	957.33	34.63	-5.11	46.0	11.37	Peak	128.00	100	Vertical	Pass



A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	44.30	30.42	-18.82	40.0	9.58	Peak	320.80	100	Horizontal	Pass
2	118.73	26.42	-21.55	43.5	17.08	Peak	360.00	100	Horizontal	Pass
3	242.86	35.89	-19.03	46.0	10.11	Peak	88.60	100	Horizontal	Pass
4	374.51	30.21	-15.88	46.0	15.79	Peak	285.50	100	Horizontal	Pass
5	495.24	32.21	-13.20	46.0	13.79	Peak	270.40	100	Horizontal	Pass
6	844.60	33.07	-6.52	46.0	12.93	Peak	189.70	100	Horizontal	Pass

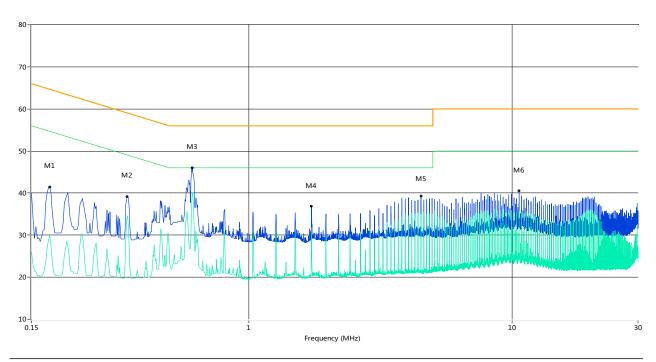


A.2 Conducted Emission

Test Data and Plots

QI TEST MODE

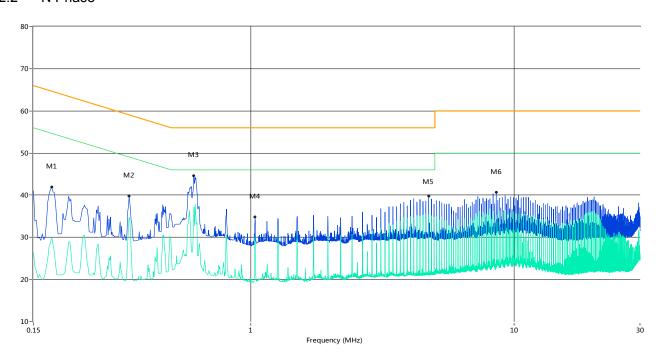
A.2.1 L Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.18	41.5	13.00	65.3	23.80	Peak	L Line	Pass
1**	0.18	30.0	13.00	55.3	25.30	AV	L Line	Pass
2	0.35	39.2	13.00	60.4	21.20	Peak	L Line	Pass
2**	0.35	34.6	13.00	50.4	15.80	AV	L Line	Pass
3	0.61	46.1	13.00	56.0	9.90	Peak	L Line	Pass
3**	0.61	40.1	13.00	46.0	5.90	AV	L Line	Pass
4	1.73	36.9	13.00	56.0	19.10	Peak	L Line	Pass
4**	1.73	30.4	13.00	46.0	15.60	AV	L Line	Pass
5	4.51	39.4	13.00	56.0	16.60	Peak	L Line	Pass
5**	4.51	35.1	13.00	46.0	10.90	AV	L Line	Pass
6	10.62	40.6	13.00	60.0	19.40	Peak	L Line	Pass
6**	10.62	35.5	13.00	50.0	14.50	AV	L Line	Pass



A.2.2 N Phase

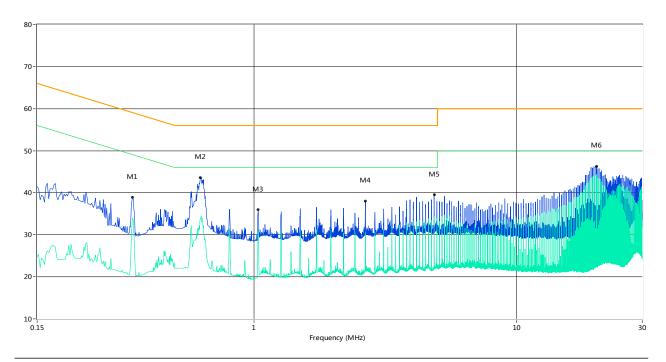


No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.18	41.9	13.00	65.3	23.40	Peak	N Line	Pass
1**	0.18	30.0	13.00	55.3	25.30	AV	N Line	Pass
2	0.35	39.8	13.00	60.4	20.60	Peak	N Line	Pass
2**	0.35	34.7	13.00	50.4	15.70	AV	N Line	Pass
3	0.61	44.6	13.00	56.0	11.40	Peak	N Line	Pass
3**	0.61	35.3	13.00	46.0	10.70	AV	N Line	Pass
4	1.04	34.8	13.00	56.0	21.20	Peak	N Line	Pass
4**	1.04	30.3	13.00	46.0	15.70	AV	N Line	Pass
5	4.74	39.8	13.00	56.0	16.20	Peak	N Line	Pass
5**	4.74	35.4	13.00	46.0	10.60	AV	N Line	Pass
6	8.55	40.6	13.00	60.0	19.40	Peak	N Line	Pass
6**	8.55	35.3	13.00	50.0	14.70	AV	N Line	Pass



PMA TEST MODE

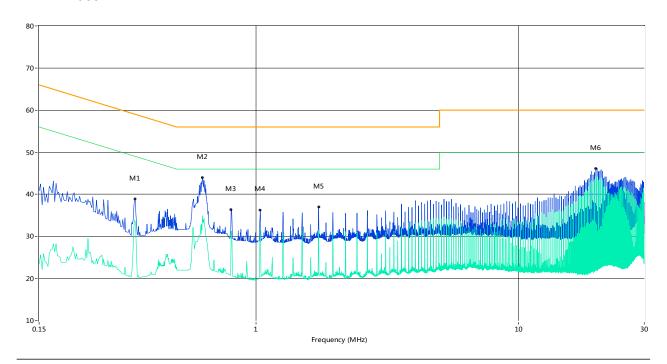
A.2.3 L Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.35	38.9	13.00	60.4	21.50	Peak	L Line	Pass
1**	0.35	33.9	13.00	50.4	16.50	AV	L Line	Pass
2	0.63	43.5	13.00	56.0	12.50	Peak	L Line	Pass
2**	0.63	33.7	13.00	46.0	12.30	AV	L Line	Pass
3	1.04	36.0	13.00	56.0	20.00	Peak	L Line	Pass
3**	1.04	31.4	13.00	46.0	14.60	AV	L Line	Pass
4	2.66	38.0	13.00	56.0	18.00	Peak	L Line	Pass
4**	2.66	30.1	13.00	46.0	15.90	AV	L Line	Pass
5	4.85	39.5	13.00	56.0	16.50	Peak	L Line	Pass
5**	4.85	34.4	13.00	46.0	11.60	AV	L Line	Pass
6	20.10	46.3	13.00	60.0	13.70	Peak	L Line	Pass
6**	20.10	44.4	13.00	50.0	5.60	AV	L Line	Pass



A.2.4 N Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.35	38.9	13.00	60.3	21.40	Peak	N Line	Pass
1**	0.35	33.5	13.00	50.3	16.80	AV	N Line	Pass
2	0.63	44.0	13.00	56.0	12.00	Peak	N Line	Pass
2**	0.63	34.9	13.00	46.0	11.10	AV	N Line	Pass
3	0.81	36.3	13.00	56.0	19.70	Peak	N Line	Pass
3**	0.81	29.9	13.00	46.0	16.10	AV	N Line	Pass
4	1.04	36.3	13.00	56.0	19.70	Peak	N Line	Pass
4**	1.04	31.3	13.00	46.0	14.70	AV	N Line	Pass
5	1.73	37.0	13.00	56.0	19.00	Peak	N Line	Pass
5**	1.73	30.4	13.00	46.0	15.60	AV	N Line	Pass
6	19.64	46.1	13.00	60.0	13.90	Peak	N Line	Pass
6**	19.64	44.2	13.00	50.0	5.80	AV	N Line	Pass



A.3 20 dB Bandwidth

QI TEST MODE



Date: 13.NOV.2015 13:12:12

PMA TEST MODE

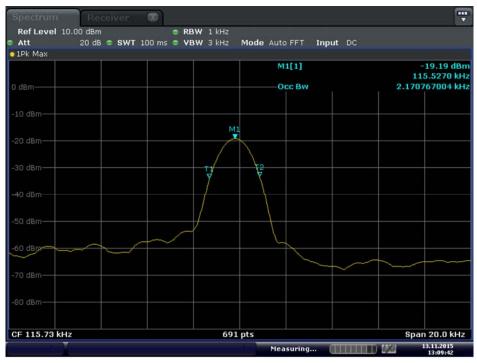


Date: 13.Nov.2015 13:03:04



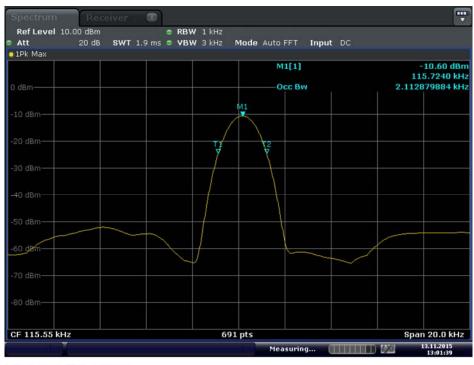
99% Occupied Bandwidth

QI TEST MODE



Date: 13.NOV.2015 13:09:42

PMA TEST MODE



Date: 13.NOV.2015 13:01:39



ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1570123-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1570123-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ1570123-AI.PDF".

--END OF REPORT--