TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

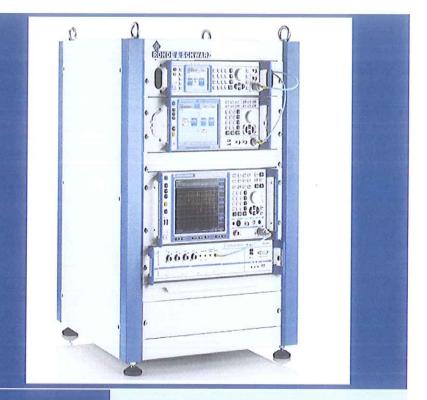


FOR

BLEND Light Bulb

ISSUED TO HANGZHOU LIFESMART TECHNOLOGY Co., LTD.

1785 Jianghan Road, Building 2, Unit 3, 9th Floor, Binjiang District, Hangzhou, Zhejiang, CHN



Prepared by: Cao Shaodong

Approved by

Liao Jianming

(Technical director) Date D. d. 19.2016 EUT Type:

Model Name: LS024

Brand Name:

Test Standard: FCC ID:

Report No.: BL-SZ1680419-601

BLEND Light Bulb

LifeSmart

47 CFR Part 15 Subpart C

2AJMI-00LS024

Test conclusion: Pass

Test Date:

Date of Issue:

Oct. 07, 2016 ~ Oct. 11, 2016

Oct. 19, 2016

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Revision History

Version Rev. 01 Oct. 19, 2016

Revisions Initial Issue

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1 ADMINISTRATIVE DATA (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,	
	Nanshan District, Shenzhen, Guangdong Province, P. R. China	
Accreditation Certificate	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. 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.	
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055	

1.3 Announce

- (1) The test report reference to the report template version v4.2.
- (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	HANGZHOU LIFESMART TECHNOLOGY CO., LTD.		
Addross	1785 Jianghan Road, Building 2, Unit 3, 9th Floor, Binjiang District,		
Address	Hangzhou, Zhejiang, CHN		

2.2 Manufacturer Information

Manufacturer HANGZHOU LIFESMART TECHNOLOGY CO., LTD.	
Address	1785 Jianghan Road, Building 2, Unit 3, 9th Floor, Binjiang District,
	Hangzhou, Zhejiang, CHN

2.3 Factory Information

	Manufacturer	Shenzhen Longtech Electronics Co., Ltd
	Address	Zhengfeng Industrial Area, No. 148, donghuan Road, huangpu Village,
	Address	Shajing Town, Baoan District, Shenzhen, PRC

2.4 General Description for Equipment under Test (EUT)

EUT Type	BLEND Light Bulb	
Model Name	LS024	
Hardware Version	N/A	
Software Version	N/A	
Network and Wireless	433 MHz	
connectivity	433 MITZ	
About the Product	The equipment is BLEND Light Bulb, operating at 433 MHz.	

2.5 Ancillary Equipment

N/A



2.6 Technical Information

Modulation Type	ASK
Frequency Range	The frequency range used is 433 MHz to 434.75 MHz.
Number of channel	3
Tested Channel	0 (433.05 MHz), 1 (433.92 MHz), 2 (434.75 MHz)
Antenna Type	PCB Antenna
Antenna Gain	0 dBi

All channel was listed on the following table:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	433.05	-	-
1	433.92	-	-
2	434.75	-	-

Note: The above EUT information in section 2.4 and 2.6 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.7 Additional Instructions

EUT Software Settings:

Mode	☐ The EUT could work continuously at specific channel
Wiode	frequencies individually when the EUT was power on.

Power level setup in software						
Test Software Version						
Mode	Channel Soft Set					
DH5	ALL	TX LEVEL is built-in set				
2DH5	ALL	parameters and cannot be				
3DH5	ALL	changed and selected.				



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title	
	47 CFR Part 15,		
1	Subpart C	Intentional Radiators	
	(10-1-15 Edition)		
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless	
4	ANSI C03. 10-2013	Devices	

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict	
1	Antenna Requirement	15.203	Note 1	Pass	
2	Conducted Emission	15.207	ANNEX A.1	Pass	
3	20 dB Bandwidth	15.231(c)	ANNEX A.2	Pass	
4	Duty Cycle	15.35	ANNEX A.3	Pass	
5	Field Strength of Fundamental	15.231(b)	ANNEX A.4	Pass	
	Emissions	4= 000			
6	Radiated Emissions	15.209 15.231(b)	ANNEX A.5	Pass	
7	Transmitting Time	15.231(a)	ANNEX A.6	Pass	
Note 1:	Please refer to section 5.1				



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

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)	110 V	

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2016.07.13	2017.07.12
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	177746	2016.07.13	2017.07.12
Signal Generator	ROHDE&SCHWARZ	SMB100A	260592	2016.07.13	2017.07.12
Switch Unit with OSP- B157	ROHDE&SCHWARZ	OSP120	101270	2016.07.13	2017.07.12
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2015.10.15	2016.10.14
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2016.07.05	2017.07.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2016.07.05	2017.07.04
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2016.07.13	2017.07.12
Power Splitter	KMW	DCPD-LDC	1305003215		
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2016.07.13	2017.07.12
Attenuator (20 dB)	KMW	ZA-S1-201	110617091		
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189		
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2016.07.13	2017.07.12
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2016.07.13	2017.07.12
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	9m*6m*6m	N/A	2015.02.28	2017.02.27
Shielded Enclosure	ChangNing	CN-130701	130703		



4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

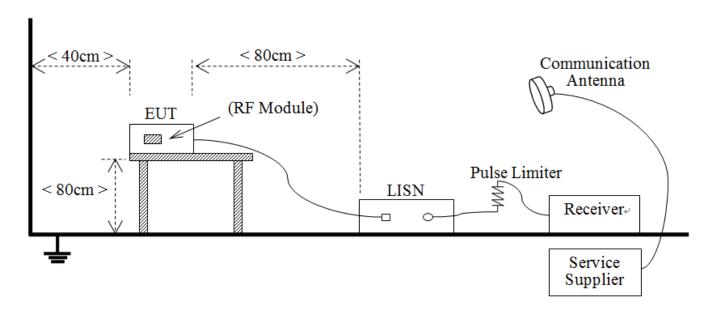
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%



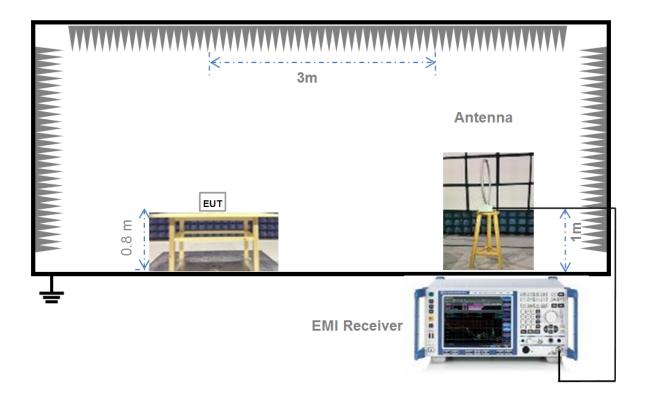
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



(Diagram 1)

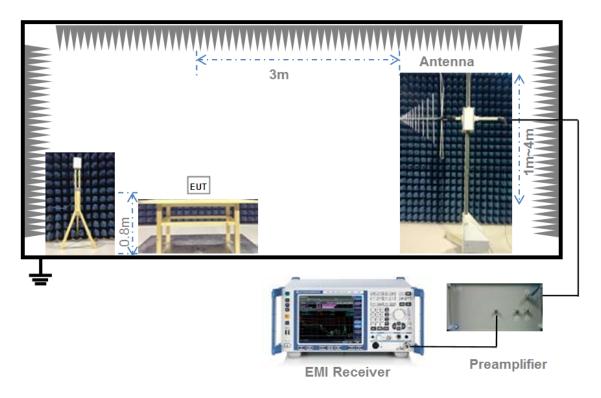
4.4.2 For Radiated Test (Below 30 MHz)



(Diagram 2)

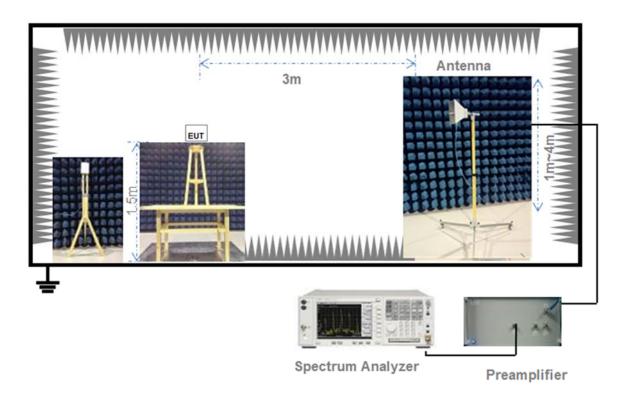


4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)



5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

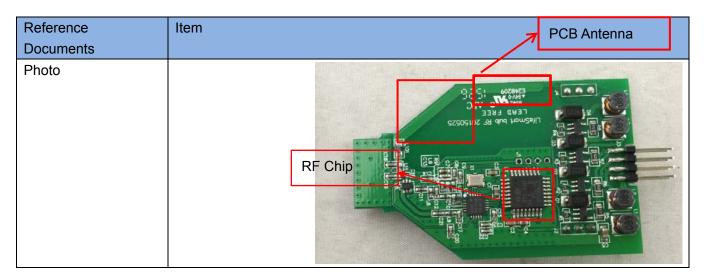
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	An embedded-in antenna design is used.



5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



5.2 Conducted Emission

5.2.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a $50\mu\text{H}/50\Omega$ line impedance stabilization network (LISN).

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

5.2.2 Test Setup

See section 4.4.1 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels 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. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Result

Please refer to ANNEX A.1.



5.3 20 dB Bandwidth

5.3.1 Limit

FCC §15.231

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.3.2 Test Setup

See section 4.4.3 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW = 100 kHz

VBW ≥ 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2.



5.4 Field Strength of Fundamental Emissions and Radiated Emissions

5.4.1 Limit

FCC §15.231 & §15.209

According to FCC section 15.231(b), In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency	Field strength of fundamental	Field strength of spurious
(MHz)	(microvolts/meter)	emissions (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-470	3750 to 12500	375 to 1250
Above 470	12500	1250

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)
0.009 - 0.490	2400/F(kHz)
0.490 - 1.705	24000/F(kHz)
1.705 - 30.0	30
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Note:

- 1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.4.2 Test Setup

See section 4.4.2 to 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

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.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured



RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz VBW \ge RBW Sweep = auto Detector function = peak Trace = max hold

5.4.4 Test Result

Please refer to ANNEX A.4 & A.5.



5.5 Transmitting Time

5.5.1 Limit

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.5.2 Test Setup

See section 4.4.3 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The EUT transmitter was activated, the spectrum analyzer single sweep was triggered while a command on the EUT was activated and plots were captured

5.5.4 Test Result

Please refer to ANNEX A.6.



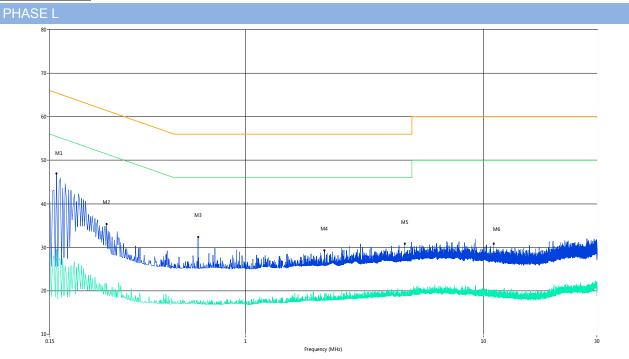
ANNEX A TEST RESULT

A.1 Conducted Emission

Note 1: The EUT is working in the Normal link mode.

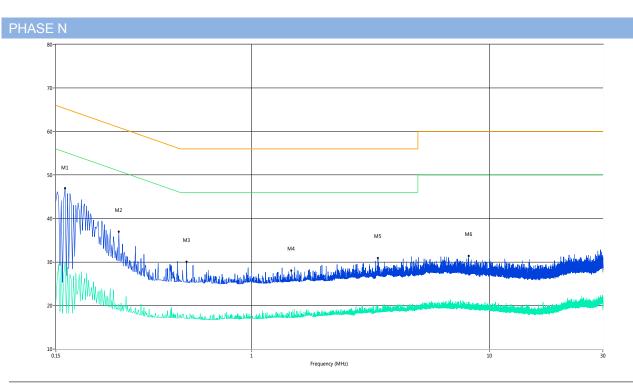
Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.160	47.0	11.00	65.5	18.50	Peak	L Line	Pass
1**	0.160	29.5	11.00	55.5	26.00	AV	L Line	Pass
2	0.260	35.4	11.00	61.4	26.00	Peak	L Line	Pass
2**	0.260	21.7	11.00	51.4	29.70	AV	L Line	Pass
3	0.630	32.4	11.00	56.0	23.60	Peak	L Line	Pass
3**	0.630	17.4	11.00	46.0	28.60	AV	L Line	Pass
4	2.144	29.3	11.00	56.0	26.70	Peak	L Line	Pass
4**	2.144	18.1	11.00	46.0	27.90	AV	L Line	Pass
5	4.666	30.8	11.00	56.0	25.20	Peak	L Line	Pass
5**	4.666	18.7	11.00	46.0	27.30	AV	L Line	Pass
6	11.048	30.8	11.00	60.0	29.20	Peak	L Line	Pass
6**	11.048	19.2	11.00	50.0	30.80	AV	L Line	Pass





No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.164	47.0	11.00	65.3	18.30	Peak	N Line	Pass
1**	0.164	29.9	11.00	55.3	25.40	AV	N Line	Pass
2	0.276	37.0	11.00	60.9	23.90	Peak	N Line	Pass
2**	0.276	20.4	11.00	50.9	30.50	AV	N Line	Pass
3	0.532	30.1	11.00	56.0	25.90	Peak	N Line	Pass
3**	0.532	17.8	11.00	46.0	28.20	AV	N Line	Pass
4	1.468	28.0	11.00	56.0	28.00	Peak	N Line	Pass
4**	1.468	18.5	11.00	46.0	27.50	AV	N Line	Pass
5	3.396	30.9	11.00	56.0	25.10	Peak	N Line	Pass
5**	3.396	19.9	11.00	46.0	26.10	AV	N Line	Pass
6	8.172	31.5	11.00	60.0	28.50	Peak	N Line	Pass
6**	8.172	20.0	11.00	50.0	30.00	AV	N Line	Pass



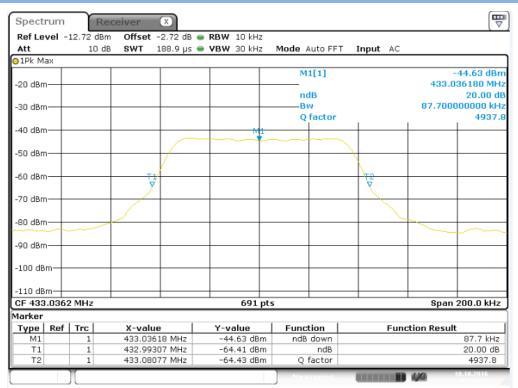
A.2 20 dB Bandwidth

Test Data

Frequency (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Verdict
433.05	0.0877	1.0826	Pass
433.92	0.0871	1.0848	Pass
434.75	0.0868	1.0869	Pass

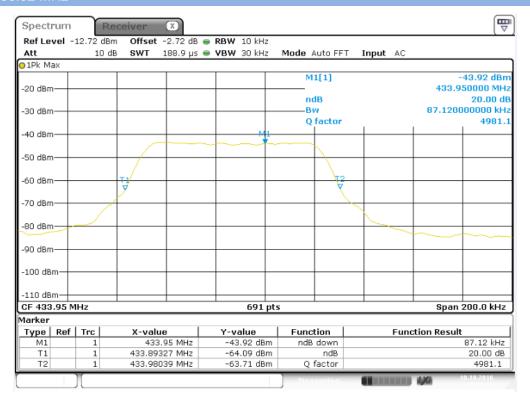
Test plots

433.05 MHz

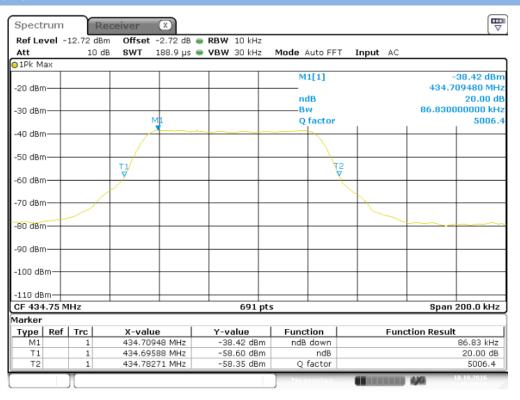




433.92 MHz



433.75 MHz

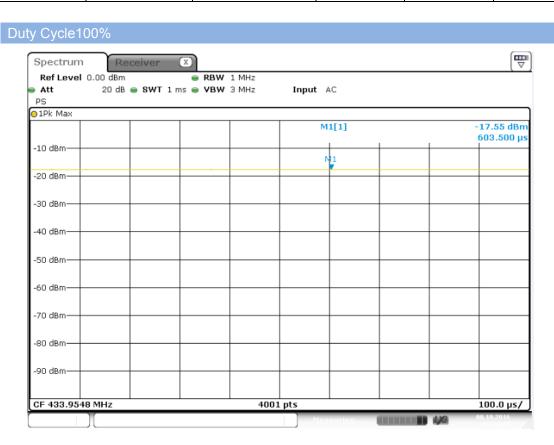




A.3 Duty cycle

Test Data and Plot

Band	On Time (ms)	On+Off Time (ms)	Duty Cycle(%)	T(ms)	1/T(kHz)
GFSK			100		





A.4 Field Strength of Fundamental Emissions

Note: According the ANSI C63.10-2013, 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

Low Channe	l									
Field Strength of Fundamental Emissions and Field strength of spurious emissions Value										
Frequency (MHz)	Field Strength (dBuV/m)	Detector	Limit @3m (dBuV/m)	Margin (dB)	Antenna					
	74.25	PEAK	100.8	26.55	Vertical					
433.05	74.91	PEAK	100.8	25.89	Horizontal					
433.03		AVERAGE	80.8	1	Vertical					
		AVERAGE	80.8		Horizontal					

Middle Chan	nel				
Field Strengt	th of Fundamenta	al Emissions an	d Field strength of	f spurious emissi	ons Value
Frequency (MHz)	Field Strength (dBuV/m)	Detector	Limit @3m (dBuV/m)	Margin (dB)	Antenna
	74.75	PEAK	100.8	26.05	Vertical
433.92	60.42	PEAK	100.8	40.38	Horizontal
433.92		AVERAGE	80.8		Vertical
		AVERAGE	80.8		Horizontal

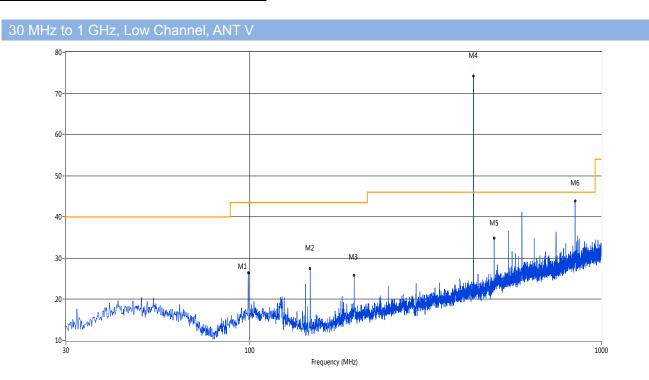
High Channe	el								
Field Strength of Fundamental Emissions and Field strength of spurious emissions Value									
Frequency (MHz)	Field Strength (dBuV/m)	Detector	Limit @3m (dBuV/m)	Margin (dB)	Antenna				
	74.31	PEAK	100.8	26.49	Vertical				
434.75	73.61	PEAK	100.8	27.19	Horizontal				
434.75		AVERAGE	80.8		Vertical				
		AVERAGE	80.8		Horizontal				



A.5 Radiated Emissions

- Note 1: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.
- Note 2: The verdict please refer to the A.3 field strength of fundamental emissions and field strength of spurious emissions value.

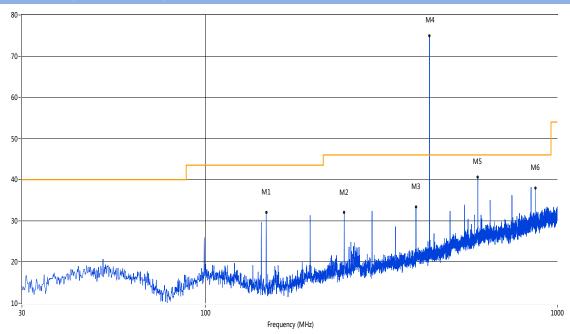
Test Data and Plots (30 MHz ~ 10th Harmonic)



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	99.073	26.42	-20.27	43.5	17.08	Peak	278.90	100	Vertical	Pass
2	148.528	27.44	-23.57	43.5	16.06	Peak	321.50	100	Vertical	Pass
3	198.218	24.34	-20.37	43.5	19.16	Peak	359.70	100	Vertical	Pass
4	432.924	74.25	-14.57	100.8	26.55	Peak	26.40	100	Vertical	Pass
5	495.536	34.87	-13.22	46.0	11.13	Peak	45.70	100	Vertical	Pass
6	842.164	43.93	-6.26	46.0	2.07	Peak	9.40	100	Vertical	Pass



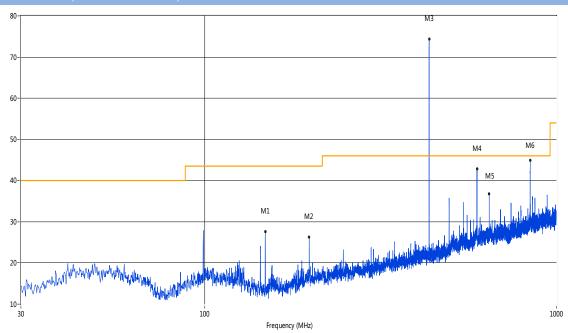
30 MHz to 1 GHz, Low Channel, ANT H



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	148.645	32.01	-23.59	43.5	11.49	Peak	283.60	100	Horizontal	Pass
2	247.673	32.05	-18.94	46.0	13.95	Peak	240.90	100	Horizontal	Pass
3	396.391	33.40	-15.32	46.0	12.60	Peak	98.50	100	Horizontal	Pass
4	432.924	74.91	-14.57	100.8	25.89	Peak	269.50	100	Horizontal	Pass
5	594.601	40.57	-10.28	46.0	5.43	Peak	310.00	100	Horizontal	Pass
5*	866.033	38.00	-5.73	46.0	8.00	Peak	352.60	100	Horizontal	Pass
6	148.645	32.01	-23.59	43.5	11.49	Peak	283.60	100	Horizontal	Pass



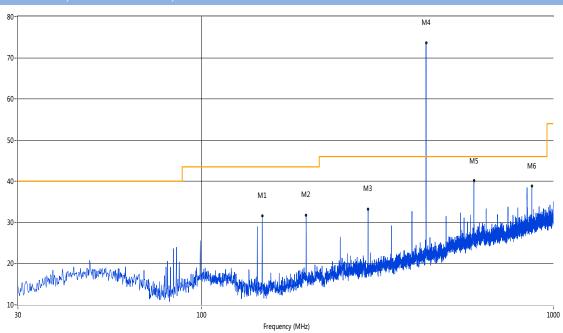
30 MHz to 1 GHz, Middle Channel, ANT V



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	148.645	27.60	-23.59	43.5	15.90	Peak	316.50	100	Vertical	Pass
2	198.100	26.28	-20.38	43.5	17.22	Peak	69.90	100	Vertical	Pass
3	434.686	74.31	-14.57	100.8	26.49	Peak	33.40	100	Vertical	Pass
4	594.851	42.90	-10.28	46.0	3.10	Peak	335.20	100	Vertical	Pass
5	644.214	36.83	-9.63	46.0	9.17	Peak	232.50	100	Vertical	Pass
6	842.789	44.93	-6.19	46.0	1.07	Peak	10.90	100	Vertical	Pass



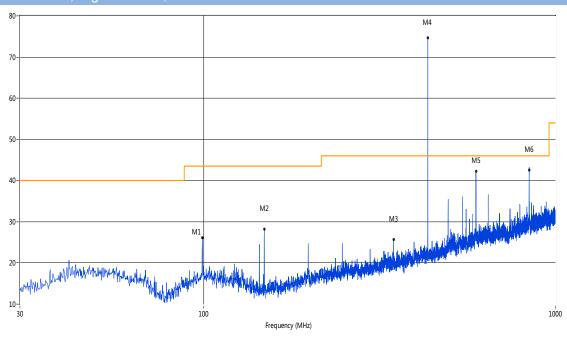
30 MHz to 1 GHz, Middle Channel, ANT H



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	148.645	31.62	-23.59	43.5	11.88	Peak	275.00	100	Horizontal	Pass
2	198.218	31.80	-20.37	43.5	11.70	Peak	256.20	100	Horizontal	Pass
3	297.363	33.28	-17.77	46.0	12.72	Peak	246.70	100	Horizontal	Pass
4	434.686	73.61	-14.57	100.8	27.19	Peak	7.00	100	Horizontal	Pass
5	594.851	40.25	-10.28	46.0	5.75	Peak	313.70	100	Horizontal	Pass
6	869.408	38.79	-5.71	80.8	42.01	Peak	360.20	100	Horizontal	Pass

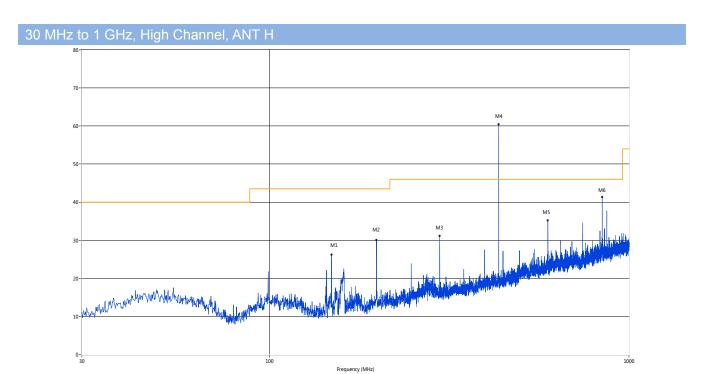


30 MHz to 1 GHz, High Channel, ANT V



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	99.073	26.15	-20.27	43.5	17.35	Peak	0.00	100	Vertical	Pass
2	148.645	28.21	-23.59	43.5	15.29	Peak	323.30	100	Vertical	Pass
3	346.818	25.65	-16.27	46.0	20.35	Peak	36.10	100	Vertical	Pass
4	433.864	74.75	-14.65	100.8	26.05	Peak	36.10	100	Vertical	Pass
5	594.726	42.22	-10.30	46.0	3.78	Peak	319.60	100	Vertical	Pass
6	842.539	42.43	-6.23	46.0	3.57	Peak	360.00	100	Vertical	Pass

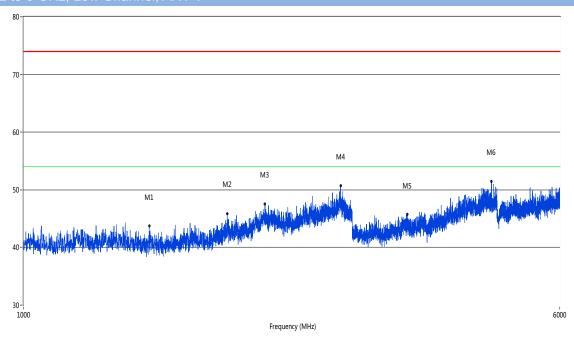




No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	148.645	26.26	-23.59	43.5	17.24	Peak	0.00	100	Horizontal	Pass
2	198.218	30.07	-20.37	43.5	13.43	Peak	17.70	100	Horizontal	Pass
3	297.363	31.14	-17.77	46.0	14.86	Peak	0.60	100	Horizontal	Pass
4	433.864	60.42	-14.65	100.8	40.38	Peak	154.10	100	Horizontal	Pass
5	594.601	35.18	-10.28	46.0	10.82	Peak	210.40	100	Horizontal	Pass
6	842.664	41.42	-6.22	46.0	4.58	Peak	355.80	100	Horizontal	Pass



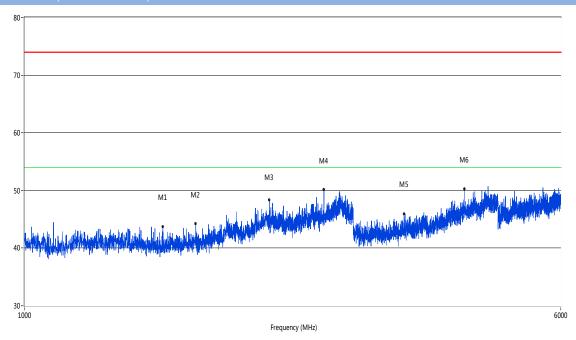
1 GHz to 6 GHz, Low Channel, ANT V



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1521.870	43.70	-2.71	74.0	30.30	Peak	96.40	100	Vertical	Pass
2	1975.256	45.91	0.65	74.0	28.09	Peak	311.10	100	Vertical	Pass
3	2240.690	47.60	2.53	74.0	26.40	Peak	236.20	100	Vertical	Pass
4	2884.529	50.71	6.54	74.0	23.29	Peak	231.70	100	Vertical	Pass
5	3605.099	45.73	10.00	74.0	28.27	Peak	21.50	100	Vertical	Pass
6	4777.056	51.51	13.59	74.0	22.49	Peak	35.50	100	Vertical	Pass



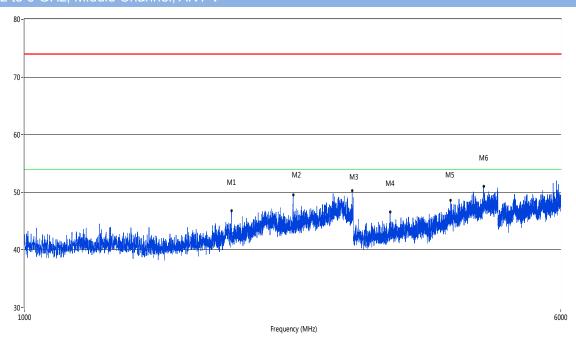
1 GHz to 6 GHz, Low Channel, ANT H



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1587.353	43.79	-2.41	74.0	30.21	Peak	176.10	100	Horizontal	Pass
2	1771.807	44.27	-1.18	74.0	29.73	Peak	66.00	100	Horizontal	Pass
3	2266.183	48.34	1.68	74.0	25.66	Peak	57.10	100	Horizontal	Pass
4	2719.570	50.18	3.89	74.0	23.82	Peak	202.30	100	Horizontal	Pass
5	3554.861	45.99	9.79	74.0	28.01	Peak	161.20	100	Horizontal	Pass
6	4345.914	50.35	12.12	74.0	23.65	Peak	165.70	100	Horizontal	Pass



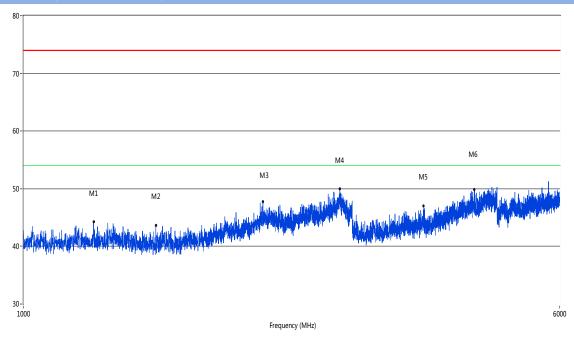
1 GHz to 6 GHz, Middle Channel, ANT V



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1996.251	46.80	-0.10	74.0	27.20	Peak	291.00	100	Vertical	Pass
2	2453.637	49.57	1.61	74.0	24.43	Peak	168.10	100	Vertical	Pass
3	2988.503	50.26	4.58	74.0	23.74	Peak	115.40	100	Vertical	Pass
4	3392.152	46.61	8.97	74.0	27.39	Peak	301.60	100	Vertical	Pass
5	4153.212	48.63	11.48	74.0	25.37	Peak	358.20	100	Vertical	Pass
6	4636.091	51.04	13.15	74.0	22.96	Peak	260.00	100	Vertical	Pass



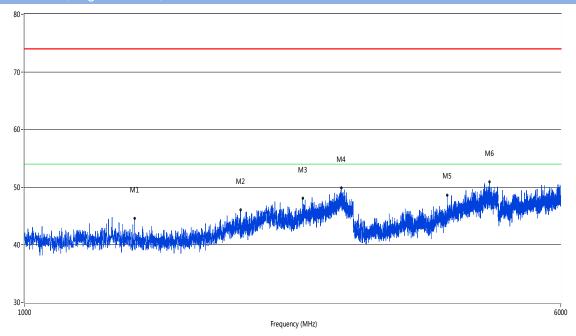
1 GHz to 6 GHz, Middle Channel, ANT H



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1263.934	44.29	-3.22	74.0	29.71	Peak	344.90	100	Horizontal	Pass
2	1556.361	43.66	-2.36	74.0	30.34	Peak	1.00	100	Horizontal	Pass
3	2225.194	47.80	2.18	74.0	26.20	Peak	95.80	100	Horizontal	Pass
4	2876.031	49.99	7.30	74.0	24.01	Peak	357.50	100	Horizontal	Pass
5	3802.299	47.06	10.73	74.0	26.94	Peak	334.20	100	Horizontal	Pass
6	4507.873	49.88	12.69	74.0	24.12	Peak	43.70	100	Horizontal	Pass



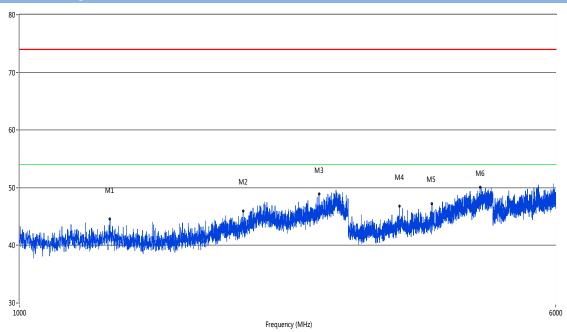
1 GHz to 6 GHz, High Channel, ANT V



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1444.889	44.58	-2.84	74.0	29.42	Peak	203.60	100	Vertical	Pass
2	2057.736	46.03	0.18	74.0	27.97	Peak	89.60	100	Vertical	Pass
3	2533.117	48.05	2.30	74.0	25.95	Peak	0.60	100	Vertical	Pass
4	2882.529	49.86	6.91	74.0	24.14	Peak	238.80	100	Vertical	Pass
5	4106.723	48.58	11.35	74.0	25.42	Peak	330.70	100	Vertical	Pass
6	4730.567	50.89	13.62	74.0	23.11	Peak	335.10	100	Vertical	Pass



1 GHz to 6 GHz, High Channel, ANT H



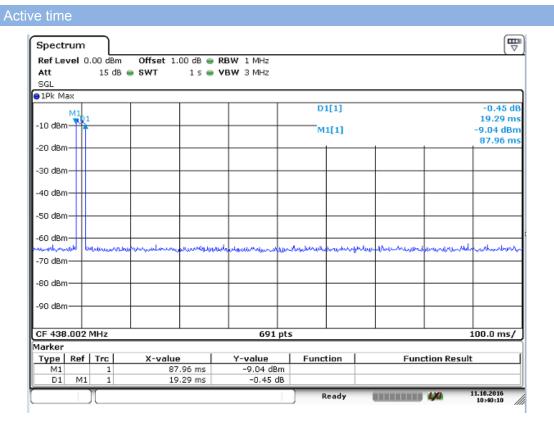
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1352.912	44.58	-2.49	74.0	29.42	Peak	69.80	100	Horizontal	Pass
2	2110.722	45.93	0.82	74.0	28.07	Peak	252.20	100	Horizontal	Pass
3	2720.070	48.93	3.88	74.0	25.07	Peak	230.80	100	Horizontal	Pass
4	3557.861	46.81	9.81	74.0	27.19	Peak	110.90	100	Horizontal	Pass
5	3967.258	47.20	11.11	74.0	26.80	Peak	26.10	100	Horizontal	Pass
6	4659.335	50.10	13.11	74.0	23.90	Peak	186.50	100	Horizontal	Pass



A.6 Transmitter Time

Test Data and Plot

The active time is less than 1 seconds





ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1680419-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1680419-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ1680419-AI.PDF".

--END OF REPORT--