

FCC/ISED

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
GDA421

ISSUED TO
ONE WORLD TECHNOLOGIES, INC

1428 PEARMAN DAIRY ROAD ANDERSON SOUTH CAROLINA
29625 USA



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Date: Jan. 10, 2018

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Date: Jan. 10, 2018

Report No.: BL-SZ17C0101-601
EUT Name: GDA421
Model Name: GDA421
Brand Name: RYOBI
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen (Issue 4, November 2014)
RSS-210 (Issue 9, August 2016)
FCC ID: VMZGDA421
ISED Number: 9880A-GDA421

Test conclusion: Pass
Test Date: Dec. 15, 2017 ~ Jan. 10, 2018
Date of Issue: Jan. 10, 2018

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Jan. 04, 2018</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jan. 10, 2018</u>	<u>Revise the duty cycle on page 22. retest the RE on 3m and meanwhile update the Annex 4/5 on page 24/25</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	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
Phone Number	+86 755 6685 0100

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	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01.</p> <p>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.</p>
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 v5.3.
- (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

Applicant	ONE WORLD TECHNOLOGIES, INC
Address	1428 PEARMAN DAIRY ROAD ANDERSON SOUTH CAROLINA 29625 USA

2.2 Manufacturer

Manufacturer	ET Technology (Wuxi) Co., Ltd.
Address	No.58 Xiqun road, Meicun industrial zone, Wuxi, Jiangsu, China 214112

2.3 Factory Information

Manufacturer	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	GDA421
Model Name	GDA421
Hardware Version	N/A
Software Version	N/A

2.5 Ancillary Equipment

Note: Not applicable.

2.6 Technical Information

Modulation Type	FSK
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Operating Frequency	433.92 MHz.
Antenna Type	PCB Antenna
Antenna Gain	0 dBi

All channel was listed on the following table:

Channel number	Freq. (MHz)
1	433.92

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.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-16 Edition)	Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	RSS-Gen (Issue 4, Nov. 2014)	General Requirements for Compliance of Radio Apparatus
4	RSS-210 (Issue 9, August 2016)	Licence-Exempt Radio Apparatus:Category I Equipments
5	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note}
2	Conducted Emission	15.207	ANNEX A.1	N/A
3	Bandwidth	15.231(c)	ANNEX A.2	Pass
4	Duty Cycle	15.35	ANNEX A.3	Pass
5	Field Strength of Fundamental Emissions	15.231(b)	ANNEX A.4	Pass
6	Radiated Emissions	15.209 15.231(b)	ANNEX A.5	Pass
7	Transmitting Time	15.231(a)	ANNEX A.6	Pass

Note: 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)	3 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2017.06.22	2018.06.21
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2017.06.22	2018.06.21
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2017.09.07	2018.09.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2017.06.22	2018.06.21
LISN	SCHWARZBECK	NSLK 8127	8127-687	2017.06.22	2018.06.21
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2017.06.22	2018.06.21
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2017.06.22	2018.06.21
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2017.06.22	2018.06.21
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2017.06.22	2018.06.21
Test Antenna-Rod(9 kHz-30 MHz)	SCHWARZBECK	VAMP 9243	9243-556	2017.06.22	2018.06.21
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.06.22	2018.06.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2017.06.22	2018.06.21
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2017.06.22	2018.06.21
Anechoic Chamber	EMC TECHNOLOGY LTD	21.1m*11.6m*7.35m	N/A	2016.08.09	2018.08.08
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.24	2019.02.23
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Measurement Uncertainty

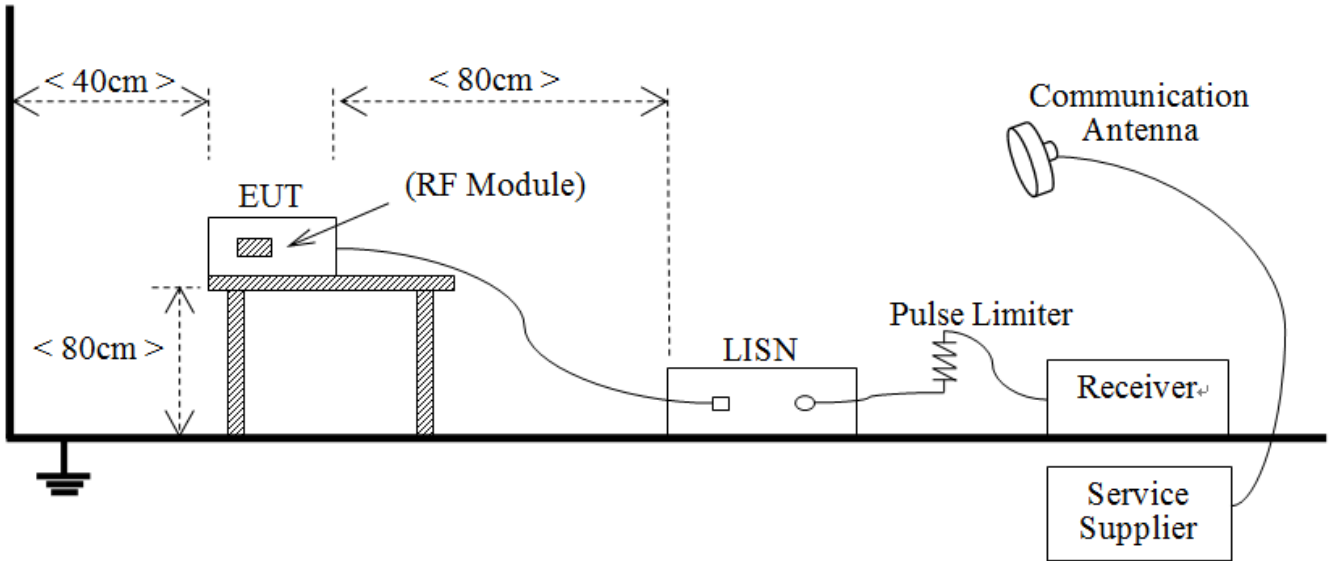
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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	$\pm 4\%$
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	$\pm 4\%$

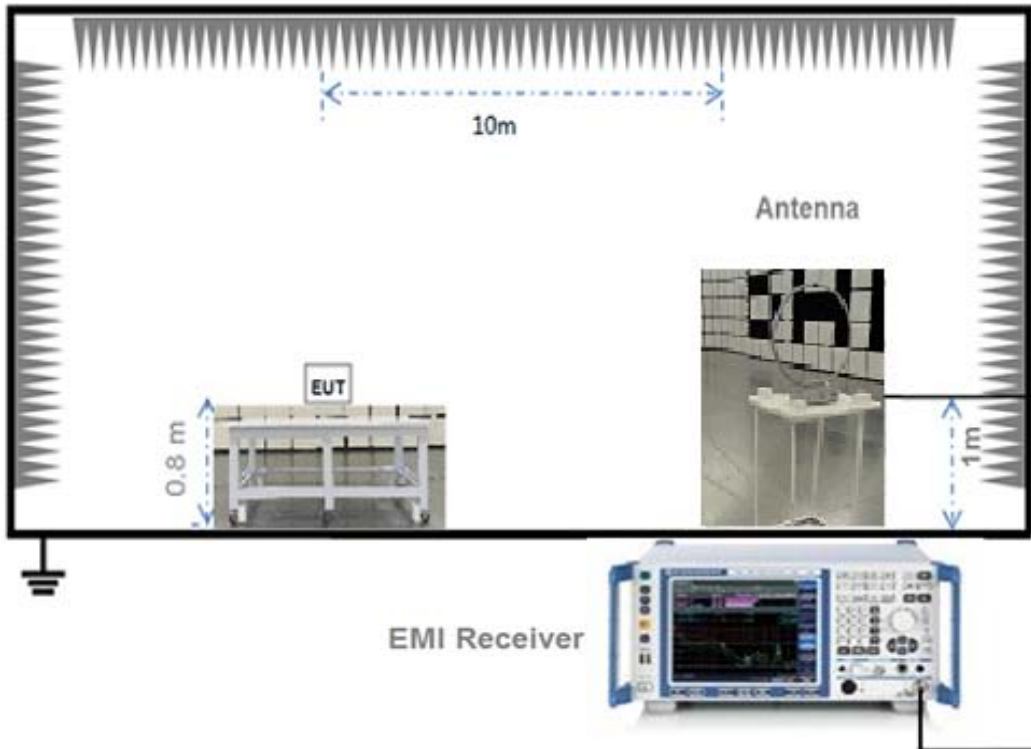
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



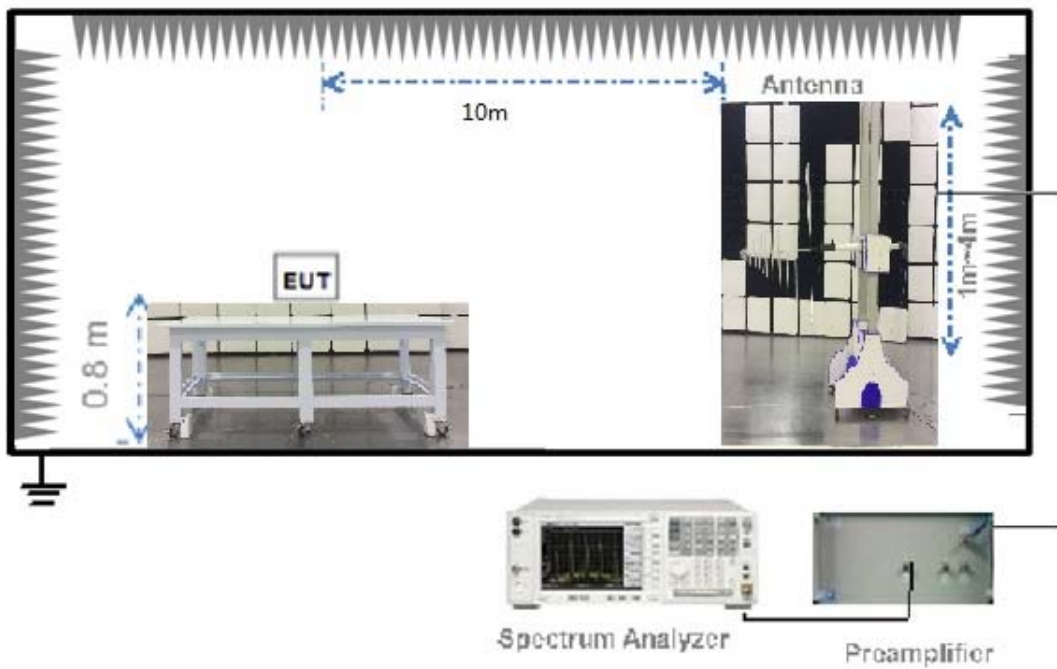
(Diagram 1)

4.4.2 For Radiated Test (Below 30 MHz)



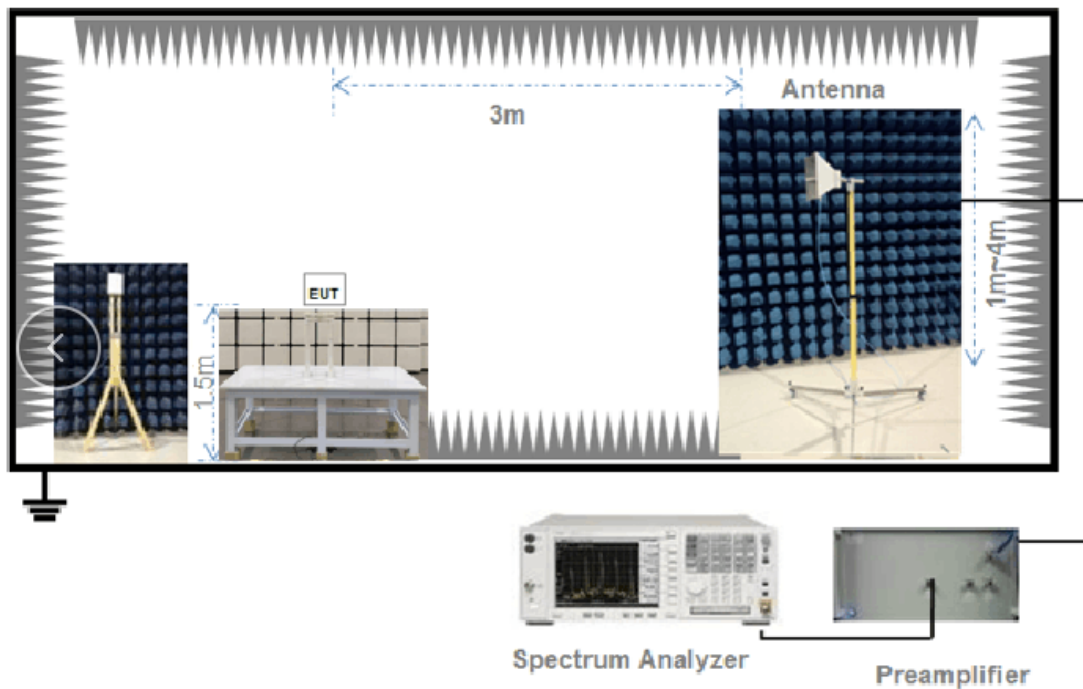
(Diagram 2)

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 Relevant Standards

FCC §15.203 & 15.247(b)

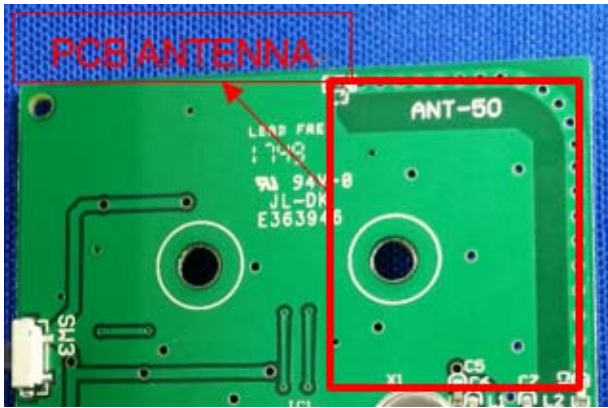
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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 embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	

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 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	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 \geq 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 (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	¹ 1250 to 3750	125 to 375
174-260	3750	375
260-470	¹ 3750 to 12500	375 to 1250
Above 470	12500	1250

¹Linear interpolations.

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 ($\mu\text{V}/\text{m}$)
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:

- 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.
- 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq 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: Not applicable.

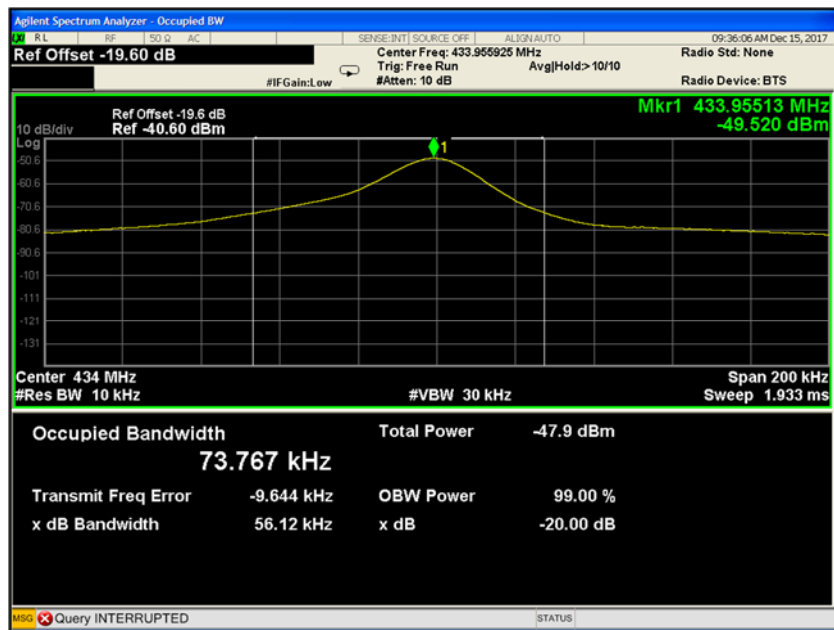
A.2 Bandwidth

Test Data

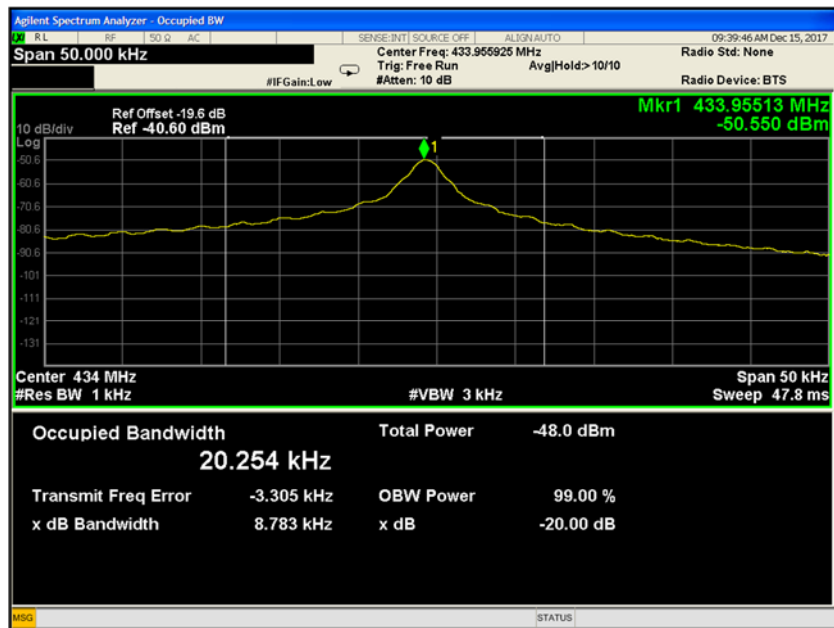
Frequency (MHz)	99% OBW (KHz)	20 dB Bandwidth (kHz)	20 dB Bandwidth Limit (kHz)	Verdict
433.92	20.25	56.12	$433955 \times 0.25\% = 1084.88$ 75	Pass

Test plots

20 dB Bandwidth



99% Bandwidth

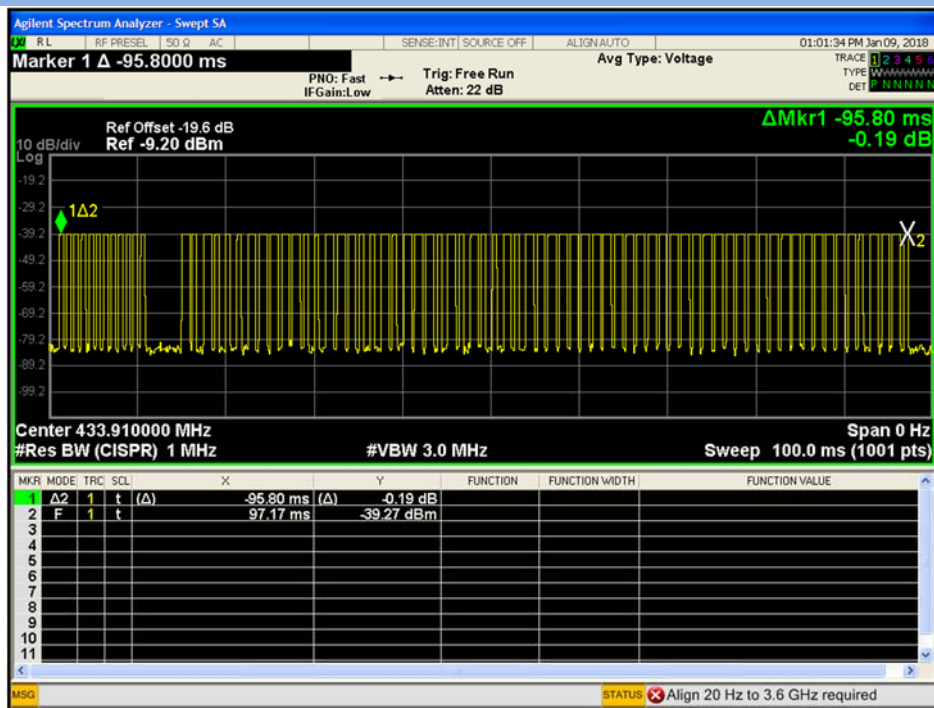


A.3 Duty cycle

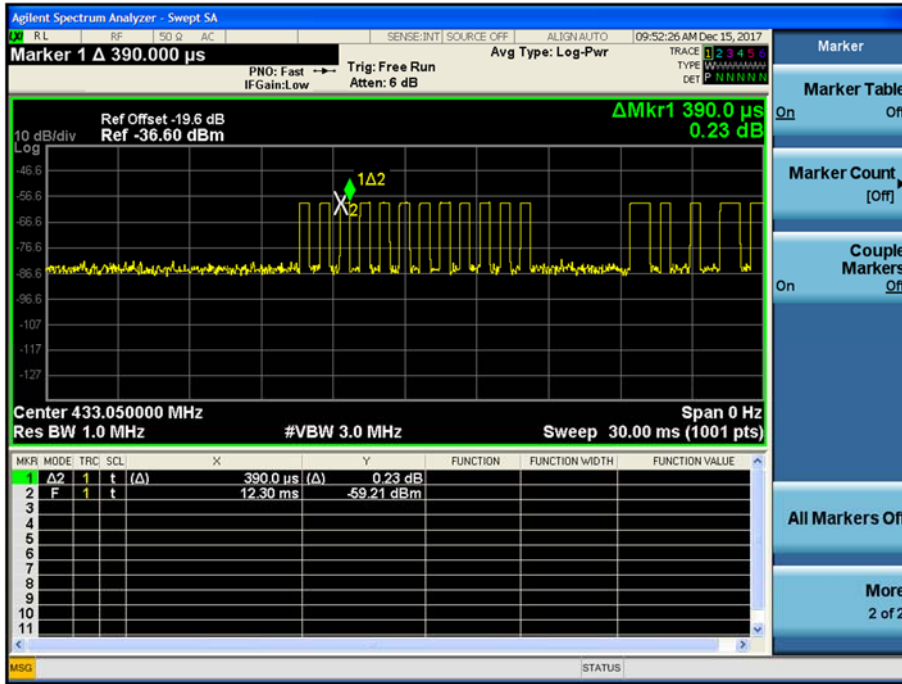
Test Data and Plot

Data Transmissions		Number of pulses
The number of pulses Group		1
Long pulse duration	0.810 ms	43
Short pulse duration	0.390 ms	35
Total transmissions duration	$0.810 * 43 + 0.390 * 35 = 52.08\text{ms}$	
On time within 100 msec	$1 * 52.08 = 52.08\text{ms}$	
Duty cycle correction factor	$10 * \log(52.08/100) = -2.83\text{dB}$	

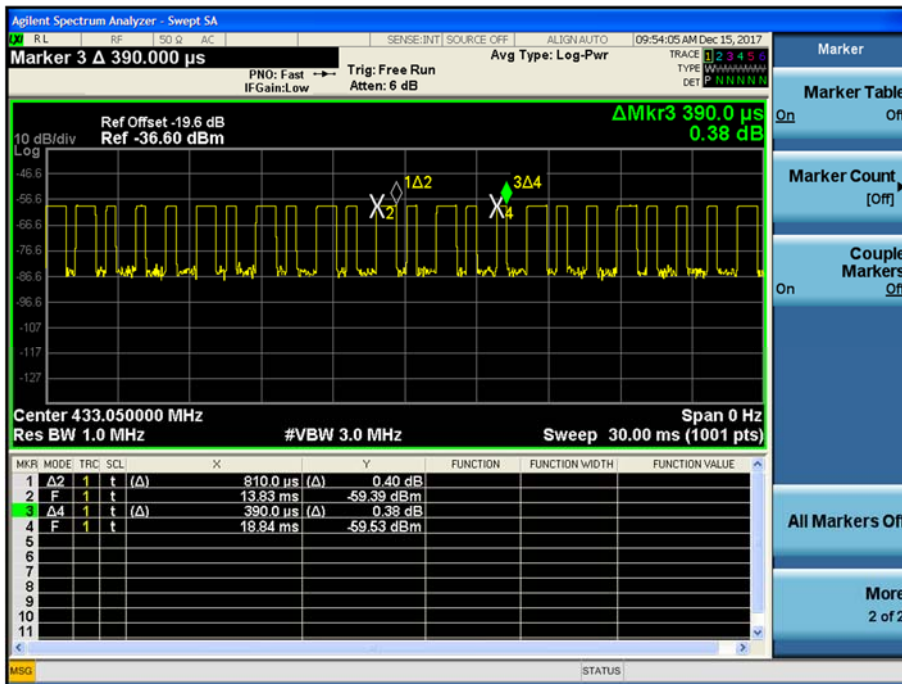
Number of Packet/100 ms



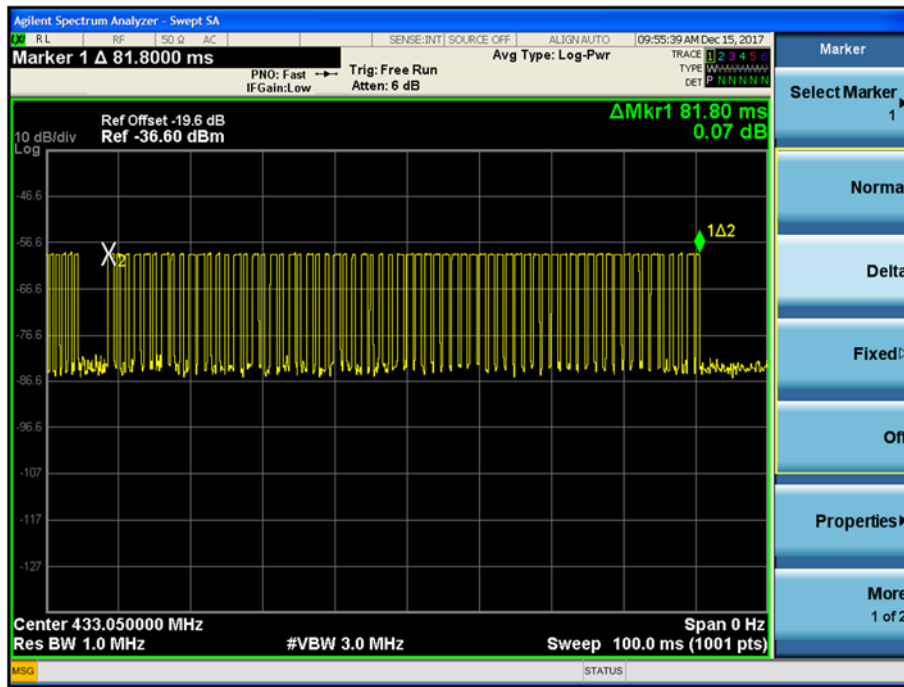
Number of Pulses/Packet



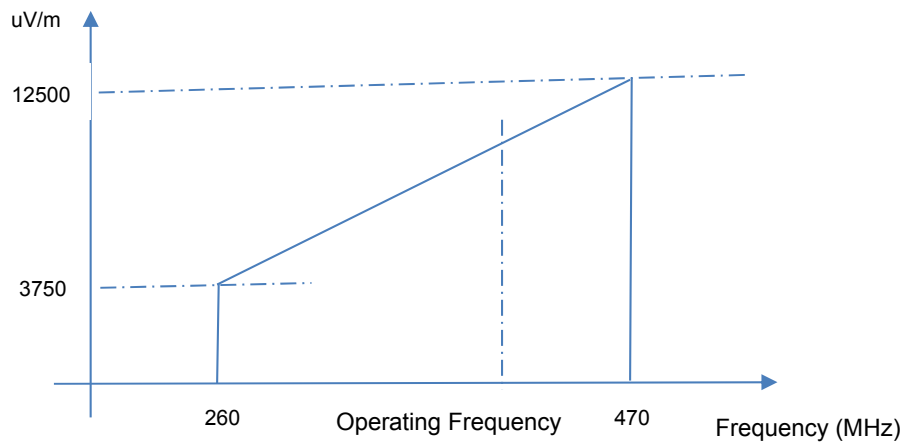
Long Pulse Duration



Short Pulse Duration



A.4 Field Strength of Fundamental Emissions



The Field Strength of Fundamental Emissions (Operating Frequency) is:

$$3750 \text{ uV/m} = 20 \cdot \log(3750) \text{ dBuV/m} = 71.48 \text{ dBuV/m}$$

$$12500 \text{ uV/m} = 20 \cdot \log(12500) \text{ dBuV/m} = 81.94 \text{ dBuV/m}$$

Test Data

Field Strength of Fundamental Emissions and Field strength of spurious emissions Value					
Operating Frequency (MHz)	Field Strength (dBuV/m)	Detector	Limit @3m (dBuV/m)	Margin (dB)	Antenna
434.005	62.39	PEAK	100.8	38.41	Vertical
	67.20	PEAK	100.8	33.60	Horizontal
	59.56	AVERAGE	80.8	21.24	Vertical
	64.37	AVERAGE	80.8	16.43	Horizontal
867.838	39.26	PEAK	80.8	41.54	Vertical
	43.76	PEAK	80.8	37.04	Horizontal
	36.43	AVERAGE	60.8	24.37	Vertical
	40.93	AVERAGE	60.8	19.87	Horizontal

A.5 Radiated Emissions

Note¹: 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.

Note²: The verdict please refer to the A.3 field strength of fundamental emissions and field strength of spurious emissions value.

Test Data (30 MHz ~ 10th Harmonic)

30 MHz to 1 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	38.487	23.10	-24.02	40.0	16.90	Peak	209.00	100	Vertical	Pass
2	62.737	16.37	-24.03	40.0	23.63	Peak	0.00	100	Vertical	Pass
3	114.632	12.98	-24.19	43.5	30.52	Peak	2.00	100	Vertical	Pass
4	212.117	12.99	-23.09	43.5	30.51	Peak	3.00	100	Vertical	Pass
5	434.005	62.39	-16.32	46.0	-16.39	Peak	4.00	100	Vertical	N/A ^{Note 2}
6	867.838	39.26	-7.63	46.0	6.74	Peak	1.00	100	Vertical	N/A ^{Note 2}

30 MHz to 1 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.430	12.75	-22.41	40.0	27.25	Peak	0.00	100	Horizontal	Pass
2	108.327	14.09	-23.44	43.5	29.41	Peak	10.00	100	Horizontal	Pass
3	193.930	12.88	-23.38	43.5	30.62	Peak	206.00	100	Horizontal	Pass
4	288.020	18.06	-20.70	46.0	27.94	Peak	67.00	100	Horizontal	Pass
5	434.005	67.20	-16.32	46.0	-21.20	Peak	0.00	100	Horizontal	N/A ^{Note 2}
6	867.838	43.76	-7.63	46.0	2.24	Peak	67.00	100	Horizontal	N/A ^{Note 2}

1 GHz to 6 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1301.500	44.06	-11.02	74.0	29.94	Peak	60.00	100	Vertical	Pass
2	1736.000	50.15	-10.67	74.0	23.85	Peak	343.00	100	Vertical	Pass
3	2170.000	52.52	-6.95	74.0	21.48	Peak	316.00	100	Vertical	Pass
4	2881.500	49.18	-2.80	74.0	24.82	Peak	60.00	100	Vertical	Pass
5	4121.250	45.59	-4.60	74.0	28.41	Peak	61.00	100	Vertical	Pass
6	5153.250	48.90	-1.31	74.0	25.10	Peak	10.00	100	Vertical	Pass

1 GHz to 6 GHz, ANT H

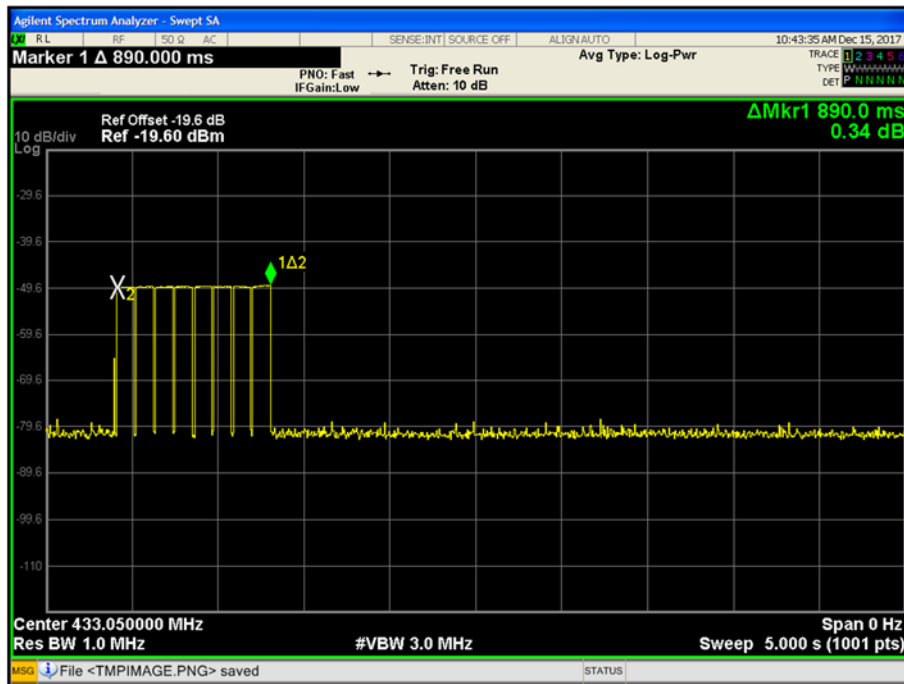
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1302.000	49.43	-11.01	74.0	24.57	Peak	290.00	100	Horizontal	Pass
2**	1736.000	46.47	-10.67	54.0	7.53	AV	290.00	100	Horizontal	Pass
2	1736.000	56.89	-10.67	74.0	17.11	Peak	290.00	100	Horizontal	Pass
3**	2170.000	41.07	-6.95	54.0	12.93	AV	290.00	100	Horizontal	Pass
3	2170.000	56.35	-6.95	74.0	17.65	Peak	16.00	100	Horizontal	Pass
4	2603.500	48.82	-3.79	74.0	25.18	Peak	343.00	100	Horizontal	Pass
5	3706.500	44.66	-4.28	74.0	29.34	Peak	203.00	100	Horizontal	Pass
6	4704.000	47.45	-2.99	74.0	26.55	Peak	17.00	100	Horizontal	Pass

A.6 Transmitter Time

Test Data and Plot

The active time is less than 1 seconds

Active time



ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ17C0101-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ17C0101-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ17C0101-AI.PDF".

--END OF REPORT--