FCC RF Test Report

APPLICANT : Locus Solutions LLC EQUIPMENT : GO Bluetooth Logger

BRAND NAME : Emerson

MODEL NAME : GO BT Logger 1.0

FCC ID : AMH101008

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The testing was completed on Jul. 11, 2017. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR761611	Rev. 01	Initial issue of report	Oct. 31, 2017

 ${\it Sporton\ International\ (Shenzhen)\ Inc.}$

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Pass	1
3.2	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 14.47 dB at 2376.08 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Not Required	-
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

Locus Solutions LLC

14924 Corporate Road South, Jupiter, FL 33478, USA

1.2 Manufacturer

SHENZHEN ANVOX ALARM SYSTEMS CO., LTD

5th Floor West, B3 Building, Yasheng Industrial District, Guangming District, Shenzhen 518107, China

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1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	GO Bluetooth Logger			
Brand Name	Emerson			
Model Name	GO BT Logger 1.0			
FCC ID	AMH101008			
EUT supports Radios application	Bluetooth V4.0 LE			
HW Version	V 2.0			
SW Version	N/A			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	40			
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)			
Maximum Output Power to Antenna	-2.75 dBm (0.0005 W)			
99% Occupied Bandwidth	1.05MHz			
Antenna Type / Gain	PCB Antenna type with gain 4.0 dBi			
Type of Modulation	Bluetooth LE : GFSK			

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595				
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.			
1031 0110 110.	TH01-SZ 251365				
Test Site	Sporton International (Shenzhen) Inc.				
Test Site		nth, Shahe River west, Fengzeyuan			
Test Site Test Site Location	No. 3 Bldg the third floor of sou Warehouse, Nanshan District Shenzh	oth, Shahe River west, Fengzeyuan nen City Guangdong Province 518055			
	No. 3 Bldg the third floor of sou Warehouse, Nanshan District Shenzh China				
	No. 3 Bldg the third floor of sou Warehouse, Nanshan District Shenzh				
	No. 3 Bldg the third floor of sou Warehouse, Nanshan District Shenzh China				

Note: The test site complies with ANSI C63.4 2014 requirement.

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1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

	Erosuonov	Bluetooth LE RF Output Power
Channel		Data Rate / Modulation
Chaine	Frequency	GFSK
		1Mbps
Ch00	2402MHz	-2.75 dBm
Ch19	2440MHz	-3.24 dBm
Ch39	2480MHz	-3.81 dBm

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration from all possible combinations.

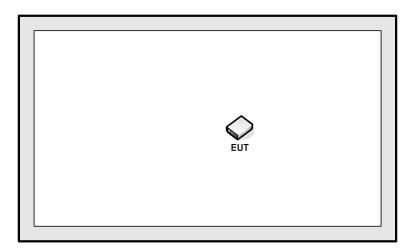
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2.2 Connection Diagram of Test System

<Bluetooth LE Tx Mode>



2.3 EUT Operation Test Setup

For Bluetooth LE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

=5 + 10 = 15 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

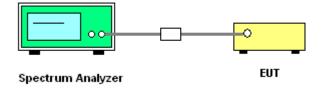
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30kHz and set the Video bandwidth (VBW) = 100kHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



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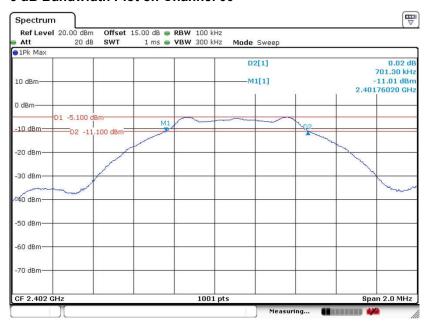
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3.1.5 Test Result of 6dB Bandwidth

Test data refer to Appendix A.

6 dB Bandwidth Plot on Channel 00



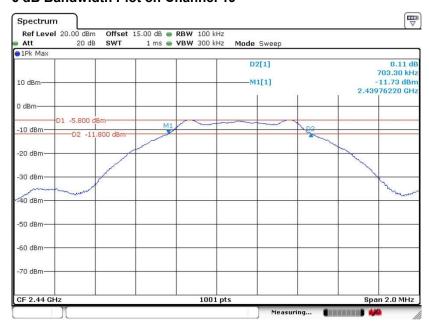
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6 dB Bandwidth Plot on Channel 19



Date: 1.JUN.2017 15:57:48

6 dB Bandwidth Plot on Channel 39



Date: 1.JUN.2017 16:09:49

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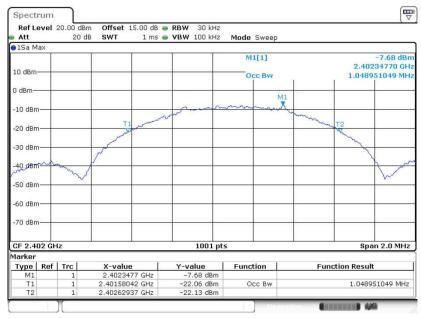
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3.1.6 Test Result of 99% Occupied Bandwidth

Test data refer to Appendix A.

99% Bandwidth Plot on Channel 00



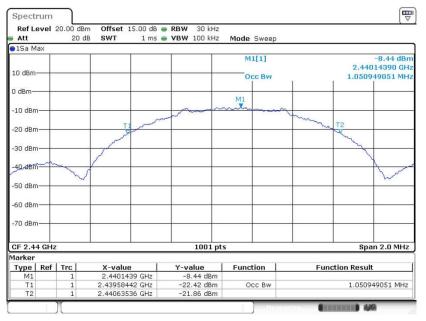
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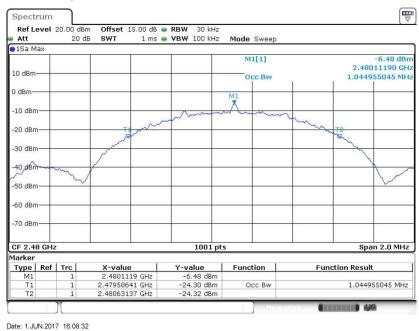
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99% Occupied Bandwidth Plot on Channel 19



Date: 1.JUN.2017 16:00:50

99% Occupied Bandwidth Plot on Channel 39



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

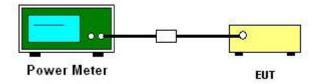
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas.
 Guidance v04 section 9.1.2 PKPM1 Peak power meter method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test data refers to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

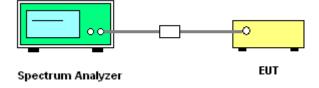
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



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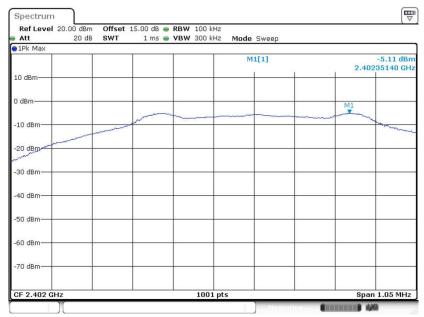
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3.3.5 Test Result of Power Spectral Density

Test data refers to Appendix A.

3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



Date: 1.JUN.2017 15:51:41

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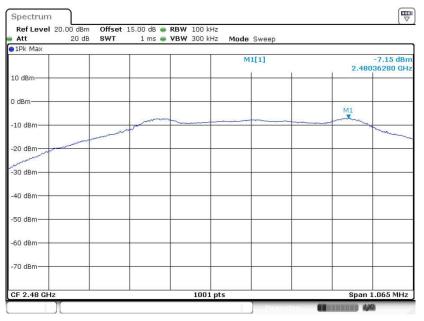
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PSD 100kHz Plot on Channel 19



Date: 1.JUN.2017 15:58:59

PSD 100kHz Plot on Channel 39



Date: 1.JUN.2017 16:10:30

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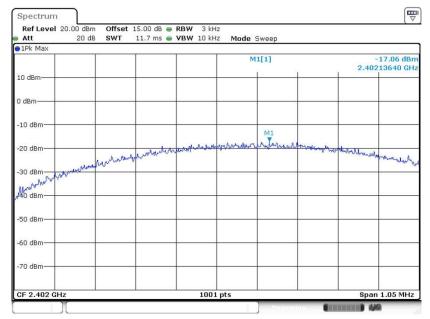
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



Date: 1.JUN.2017 15:51:22

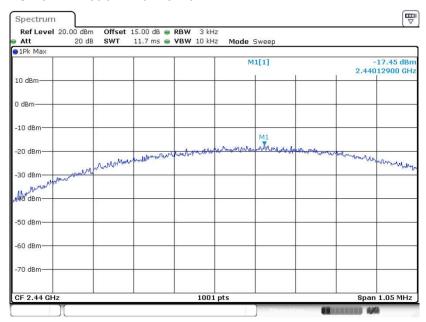
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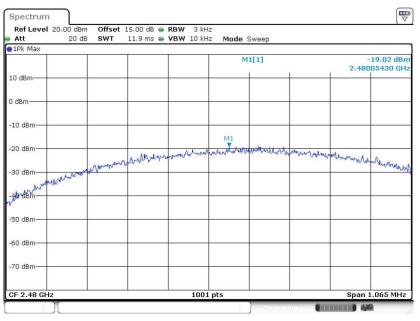


PSD 3kHz Plot on Channel 19



Date: 1.JUN.2017 15:58:36

PSD 3kHz Plot on Channel 39



Date: 1.JUN.2017 16:10:17

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

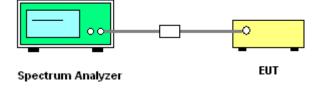
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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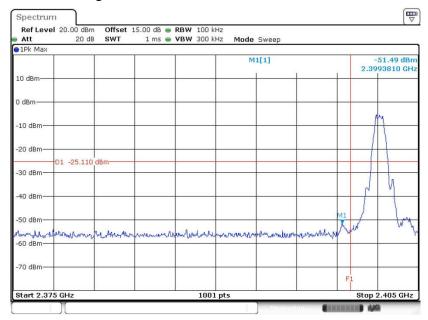
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3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 00

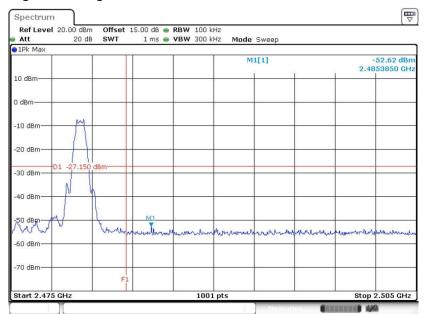


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High Band Edge Plot on Channel 39



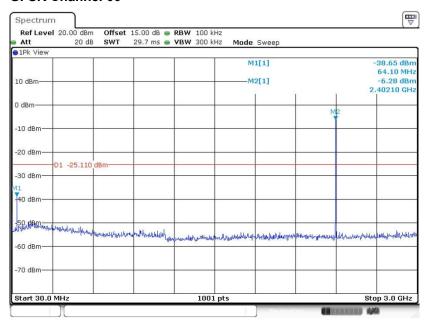
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3.4.6 Test Result of Conducted Spurious Emission Plots

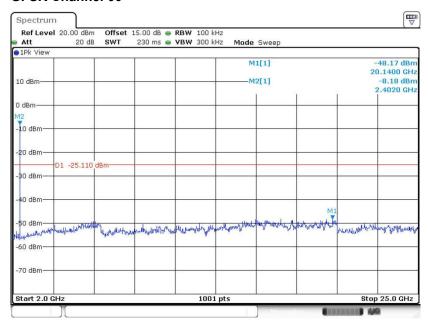
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 1.JUN.2017 15:52:39

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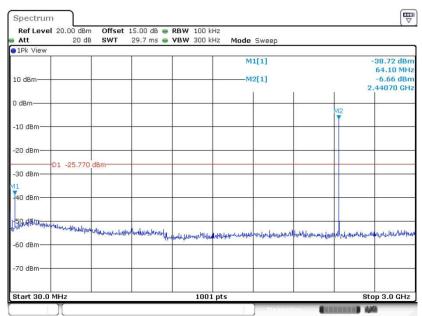


Date: 1.JUN.2017 15:52:47

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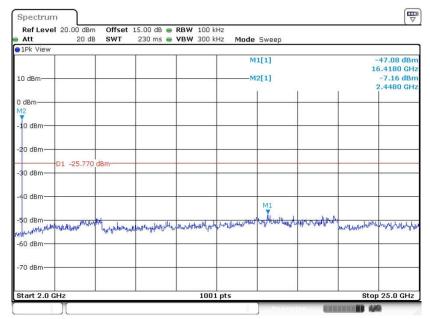
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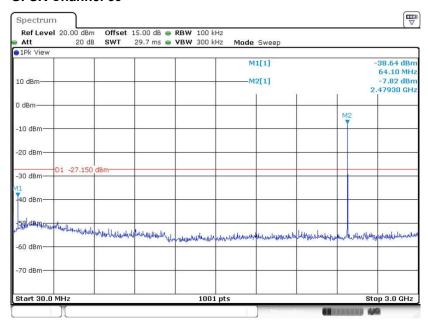


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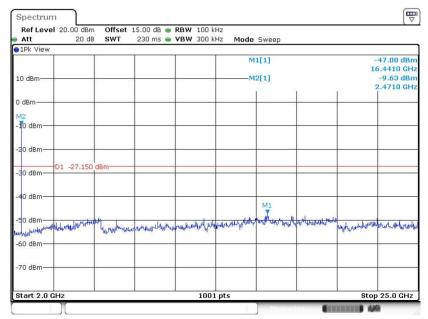


Date: 1.JUN.2017 16:11:27

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
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

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

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3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

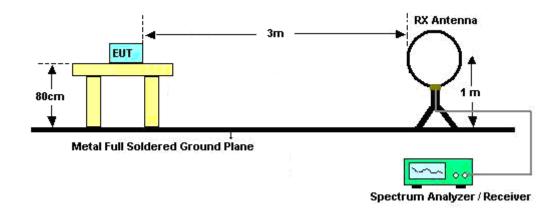
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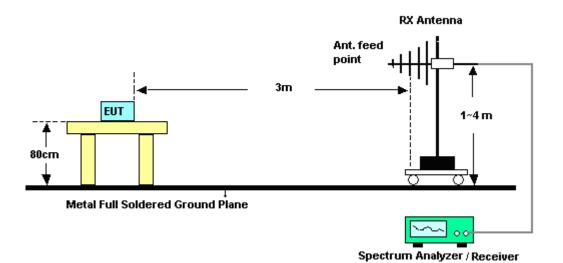
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3.5.4 Test Setup

For radiated emissions below 30MHz



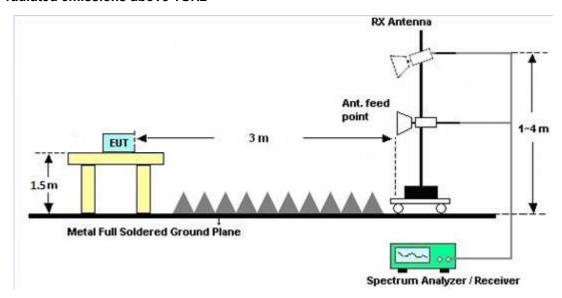
For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B

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3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

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

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 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.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	Jun. 01, 2017~ Jul. 06, 2017	Apr. 19, 2018	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 06, 2017	Jun. 01, 2017~ Jul. 06, 2017	Jan. 05, 2018	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 06, 2017	Jun. 01, 2017~ Jul. 06, 2017	Jan. 05, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 20, 2017	Jul. 11, 2017	Apr. 19, 2018	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 20, 2017	Jul. 11, 2017	Apr. 19, 2018	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2017	Jul. 11, 2017	May13, 2018	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	May 14, 2017	Jul. 11, 2017	May 13, 2018	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-128 5	1GHz~18GHz	Jan. 12, 2017	Jul. 11, 2017	Jan. 11, 2018	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug.10, 2016	Jul. 11, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	OCT. 11, 2016	Jul. 11, 2017	OCT. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	OCT. 11, 2016	Jul. 11, 2017	OCT. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Jan. 06, 2017	Jul. 11, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Jul. 11, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 11, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 11, 2017	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.1dB
of 95% (U = 2Uc(y))	3. IUB

<u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.0dB

<u>Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)</u>

1		
	Measuring Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	J.VUB

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Appendix A. Conducted Test Results

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Bluetooth Low Energy

Test Engineer:	Sam Zheng	Temperature:	24~26	°C
Test Date:	2017/6/1~2017/7/6	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.05	0.70	0.50	Pass
BLE	1Mbps	1	19	2440	1.05	0.70	0.50	Pass
BLE	1Mbps	1	39	2480	1.04	0.71	0.50	Pass

TEST RESULTS DATA Peak Power Table

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	-2.75	30.00	4.00	1.25	36.00	Pass
BLE	1Mbps	1	19	2440	-3.24	30.00	4.00	0.76	36.00	Pass
BLE	1Mbps	1	39	2480	-3.81	30.00	4.00	0.19	36.00	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)

Мос	d.	Data Rate	N⊤x	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLI	Ξ	1Mbps	1	0	2402	0.00	-4.90
BLI		1Mbps	1	19	2440	0.00	-5.60
BLI		1Mbps	1	39	2480	0.00	-6.92

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	-5.11	-17.06	4.00	8.00	Pass
BLE	1Mbps	1	19	2440	-5.77	-17.45	4.00	8.00	Pass
BLE	1Mbps	1	39	2480	-7.15	-19.02	4.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		- 11 - 17		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)		(H/V)
		2338.245	45.34	-28.66	74	40.94	31.01	6.65	33.26	133	85	Р	Н
		2338.14	37.65	-16.35	54	33.25	31.01	6.65	33.26	133	85	Α	Н
D. F.	*	2402	95.46	-	-	90.48	31.38	6.81	33.21	133	85	Р	Н
BLE	*	2402	95.59	-	-	90.61	31.38	6.81	33.21	133	85	Α	Н
CH 00 2402MHz		2337.93	45.93	-28.07	74	41.53	31.01	6.65	33.26	135	47	Р	٧
		2338.14	37.8	-16.2	54	33.4	31.01	6.65	33.26	135	47	Α	٧
	*	2402	93.17	-	-	88.19	31.38	6.81	33.21	135	47	Р	٧
	*	2402	93.29	-	-	88.31	31.38	6.81	33.21	135	47	Α	٧
		2375.94	46.05	-27.95	74	41.29	31.26	6.73	33.23	152	23	Р	Н
		2376.08	39.53	-14.47	54	34.77	31.26	6.73	33.23	152	23	Α	Н
	*	2440	97.05	-	-	91.6	31.74	6.86	33.15	152	23	Р	Н
	*	2440	97.18	-	-	91.73	31.74	6.86	33.15	152	23	Α	Н
		2495.94	45.58	-28.42	74	39.67	32.1	6.91	33.1	152	23	Р	Н
BLE		2484.04	35.4	-18.6	54	29.63	31.98	6.91	33.12	152	23	Α	Н
CH 19 2440MHz		2375.8	45.18	-28.82	74	40.42	31.26	6.73	33.23	117	64	Р	V
244UIVII11Z		2376.08	37.29	-16.71	54	32.53	31.26	6.73	33.23	117	64	Α	٧
	*	2440	93.62	-	-	88.17	31.74	6.86	33.15	117	64	Р	٧
	*	2440	93.72	-	-	88.27	31.74	6.86	33.15	117	64	Α	٧
		2498.25	45.46	-28.54	74	39.55	32.1	6.91	33.1	117	64	Р	٧
		2495.59	35.24	-18.76	54	29.33	32.1	6.91	33.1	117	64	Α	V

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	*	2480	96.65	-	-	90.88	31.98	6.91	33.12	102	20	Р	Н
	*	2480	96.77	-	-	91	31.98	6.91	33.12	102	20	Α	Н
		2484.28	46.73	-27.27	74	40.96	31.98	6.91	33.12	102	20	Р	Н
BLE		2484	37.42	-16.58	54	31.65	31.98	6.91	33.12	102	20	Α	Н
CH 39	*	2480	94.13	-	-	88.36	31.98	6.91	33.12	115	61	Р	٧
2480MHz	*	2480	94.27	-	-	88.5	31.98	6.91	33.12	115	61	Α	٧
		2484.28	46.01	-27.99	74	40.24	31.98	6.91	33.12	115	61	Р	٧
		2483.96	36.58	-17.42	54	30.81	31.98	6.91	33.12	115	61	Α	٧
Remark		o other spurious		Peak and	Average lim	nit line.							

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2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)		Avg. (P/A)	i
BLE CH 00		4804	44.92	-29.08	74	58.96	31.71	10.89	56.64	163	360	Р	Н
2402MHz		4804	45.33	-28.67	74	59.37	31.71	10.89	56.64	163	360	Р	V
		4880	48.8	-25.2	74	63.01	31.78	10.92	56.91	163	360	Р	Н
BLE		7320	49.01	-24.99	74	57.89	35.69	13.29	57.86	163	360	Р	Н
CH 19 2440MHz		4880	45.73	-28.27	74	59.94	31.78	10.92	56.91	163	360	Р	٧
2440WITZ		7320	49.65	-24.35	74	58.53	35.69	13.29	57.86	163	360	Р	V
		4960	44.87	-29.13	74	58.23	31.87	11.02	56.25	163	360	Р	Н
BLE		7440	48.85	-25.15	74	57.66	35.91	13.06	57.78	163	360	Р	Н
CH 39		4960	44.7	-29.3	74	58.06	31.87	11.02	56.25	163	360	Р	V
2480MHz		7440	48.21	-25.79	74	57.02	35.91	13.06	57.78	163	360	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	24.12	-15.88	40	29.99	25.6	0.23	31.7	-	-	Р	Н
		104.69	18.09	-25.41	43.5	31.4	17.38	0.9	31.59	-	-	Р	Н
		454.86	24.76	-21.24	46	30.91	22.58	2.58	31.31	-	-	Р	Н
		663.41	27.93	-18.07	46	30.66	25.59	3.18	31.5	-	-	Р	Н
2.4GHz		885.54	30.99	-15.01	46	30.65	28.06	3.78	31.5	125	310	Р	Η
BLE		987.39	31.8	-22.2	54	30.26	28.9	4.14	31.5	-	-	Р	Н
LF		31.94	24.47	-15.53	40	30.57	25.28	0.27	31.65	-	-	Р	V
		363.68	20.9	-25.1	46	29.69	20.24	2.27	31.3	-	-	Р	>
		638.19	29.65	-16.35	46	32.82	25.21	3.12	31.5	-	-	Р	٧
		919.49	31.09	-14.91	46	30.36	28.36	3.87	31.5	125	300	Р	V
		994.18	31.49	-22.51	54	29.86	28.95	4.18	31.5	-	-	Р	V
Remark		o other spurious		mit line.									

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Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any
	unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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 : Rev. 01

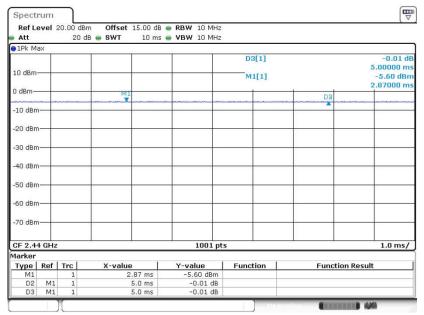
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth v4.0 LE	100.00	5.000	0.200	10Hz

Bluetooth v4.0 LE



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