



FCC RF Test Report

APPLICANT : Lava Sources LLC
EQUIPMENT : Wireless Remote
MODEL NAME : E4GE9R
FCC ID : 2AYUC-3443
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 21, 2021 ~ May 27, 2021

We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR150608-01	Rev. 01	Initial issue of report	Jun. 09, 2021
FR150608-01	Rev. 02	Update test mode	Jun. 23, 2021
FR150608-01	Rev. 03	Updated "Bluetooth v5.0 LE" to "Bluetooth LE 2Mbps" on page 27	Aug. 30, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass
3.1	-	99% Bandwidth	-	N/A
3.2	15.247(b)(3)	Peak Output Power	$\leq 30\text{dBm}$	Pass
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 20\text{dBc}$	Pass
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass
-	15.207	AC Conducted Emission	15.207(a)	Not Required
3.6	15.203 & 15.247(b)	Antenna Requirement	N/A	N/A

Remark: Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Lava Sources LLC
12 Penns Trail Newtown, PA 18940

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Remote
Model Name	E4GE9R
FCC ID	2AYUC-3443
EUT supports Radios application	Bluetooth LE

1.3 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	Bluetooth LE 1M: 3.89 dBm (0.0024 W) Bluetooth LE 2M: 3.69 dBm (0.0023 W)
99% Occupied Bandwidth	Bluetooth LE 1M: 1.143MHz Bluetooth LE 2M: 2.098MHz
Antenna Type / Gain	PCB Inv F Antenna with gain 3.60 dBi
Type of Modulation	Bluetooth LE : GFSK

1.4 Modification of EUT

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



1.5 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al

1.7 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

2.2 Test Mode

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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane) were recorded in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth LE / GFSK
Conducted TCs	Mode 1: Bluetooth Tx CH00_2402 MHz
	Mode 2: Bluetooth Tx CH19_2440 MHz
	Mode 3: Bluetooth Tx CH39_2480 MHz
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz
	Mode 2: Bluetooth Tx CH19_2440 MHz
	Mode 3: Bluetooth Tx CH39_2480 MHz

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

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

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.20 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 6.20 \text{ (dB)}\end{aligned}$$

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.

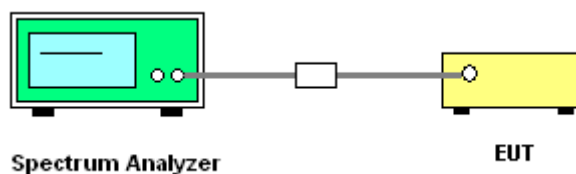
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
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 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



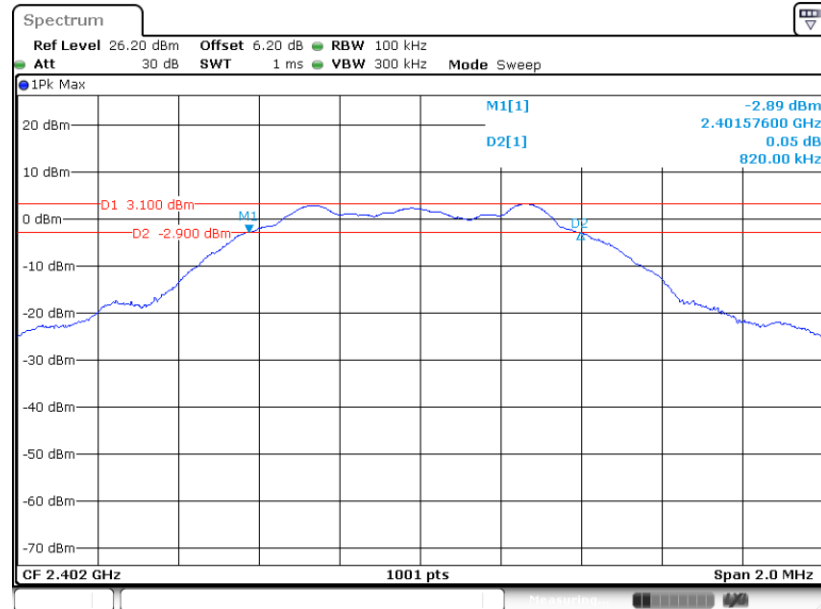


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

Bluetooth LE 1Mbps

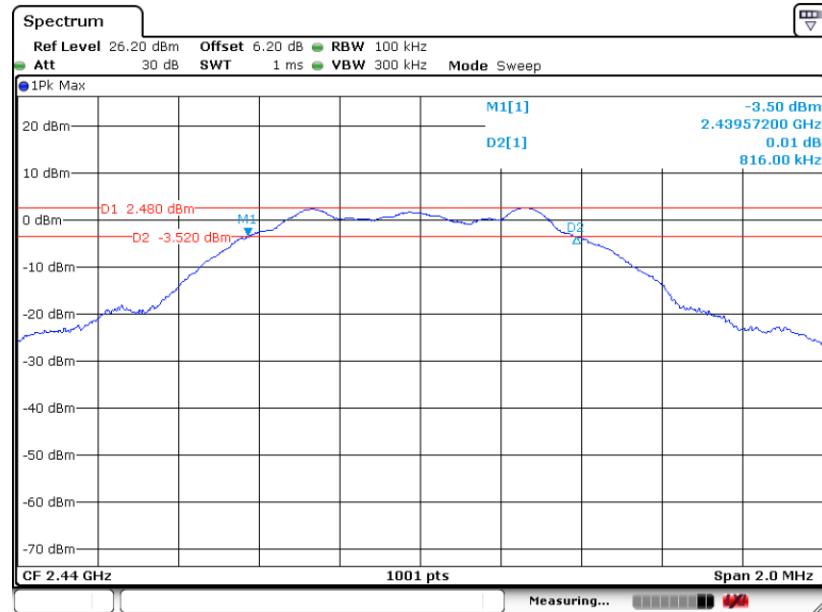
6 dB Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:13:15

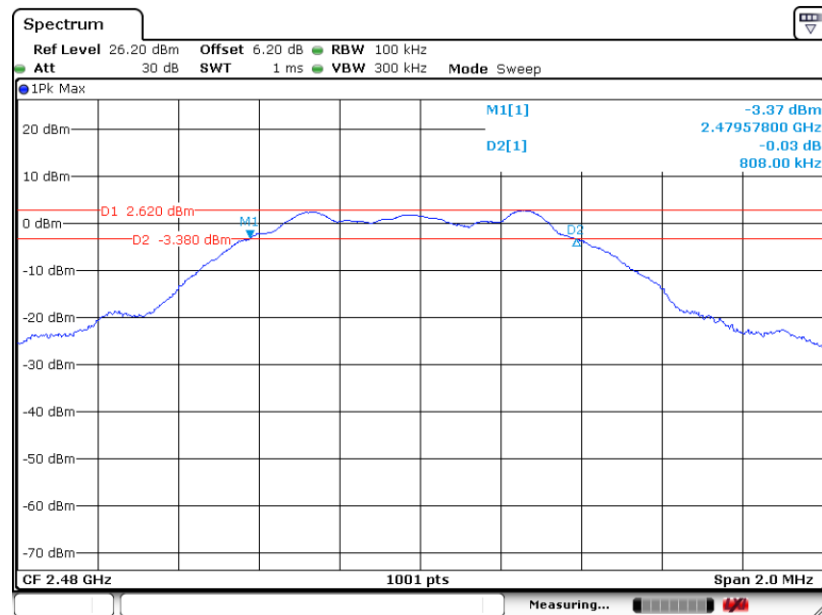


6 dB Bandwidth Plot on Channel 19



Date: 21.MAY.2021 15:17:27

6 dB Bandwidth Plot on Channel 39

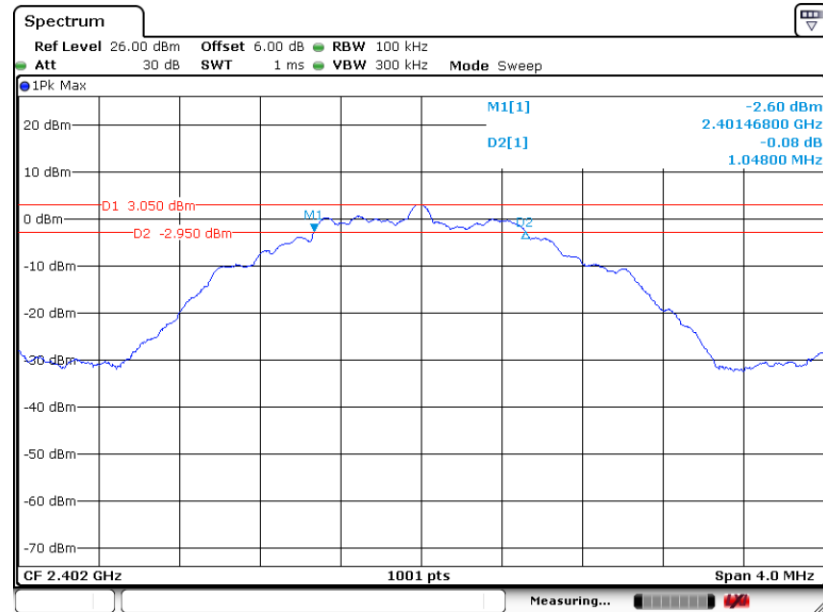


Date: 21.MAY.2021 15:20:50



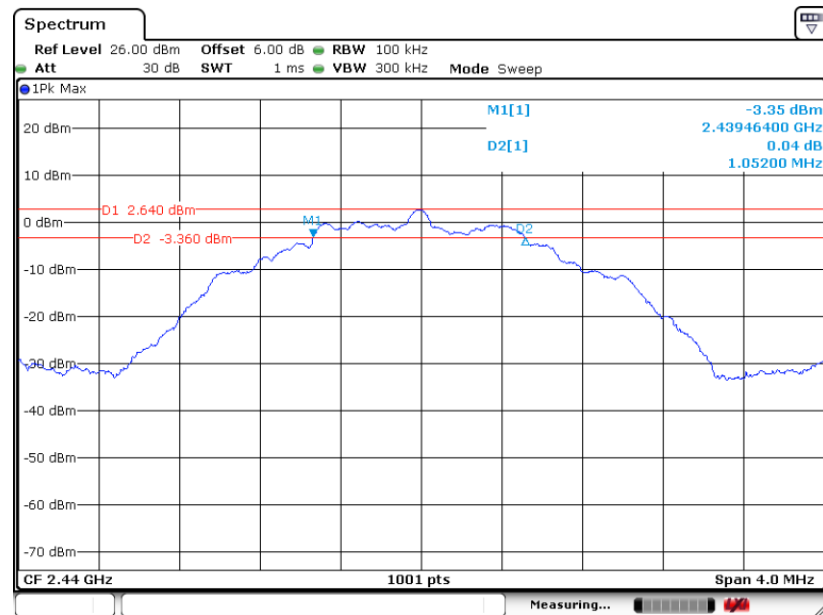
Bluetooth LE 2Mbps

6 dB Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:29:42

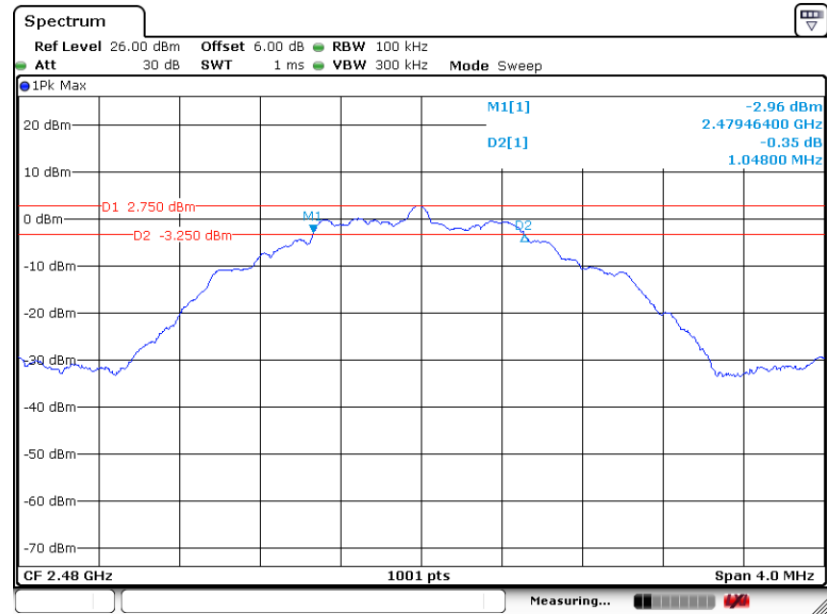
6 dB Bandwidth Plot on Channel 19



Date: 21.MAY.2021 08:55:43



6 dB Bandwidth Plot on Channel 39



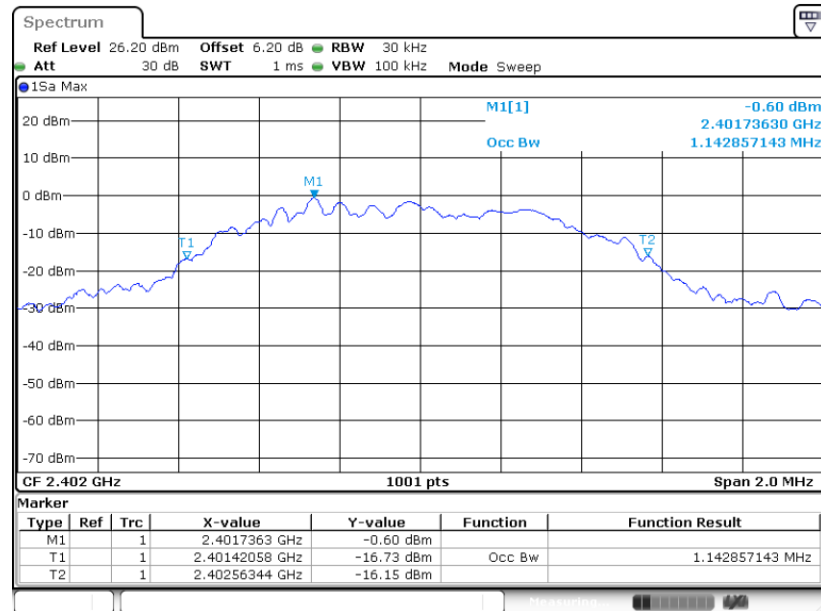


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

Bluetooth LE 1Mbps

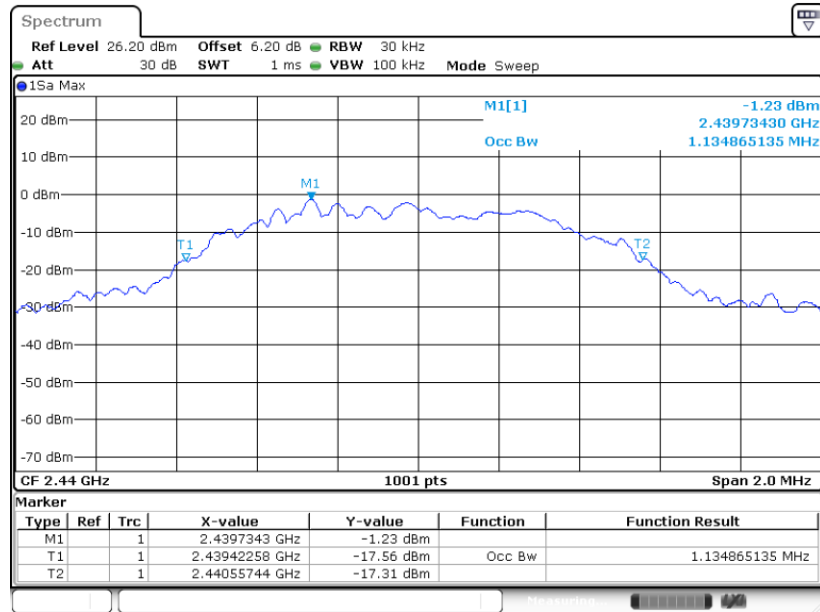
99% Occupied Bandwidth Plot on Channel 00



Date: 21.MAY.2021 15:14:21

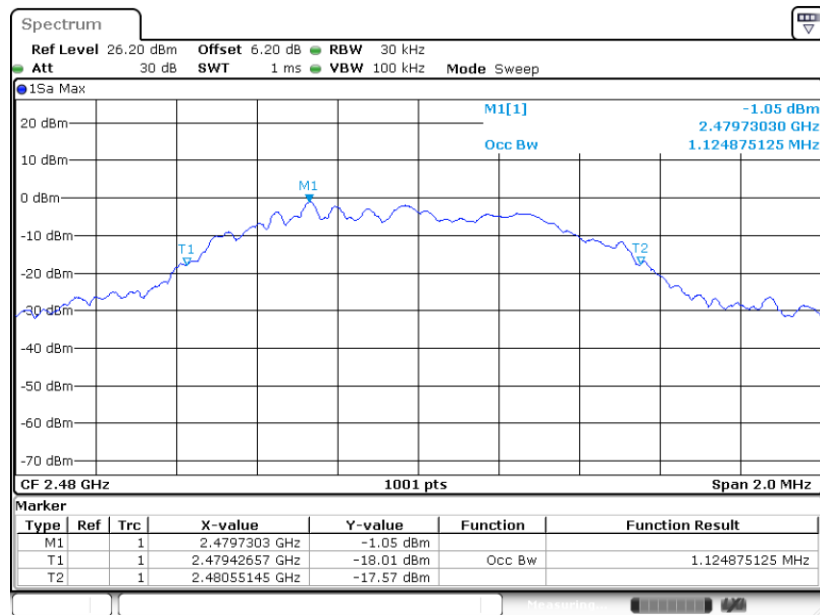


99% Occupied Bandwidth Plot on Channel 19



Date: 21.MAY.2021 15:20:14

99% Occupied Bandwidth Plot on Channel 39

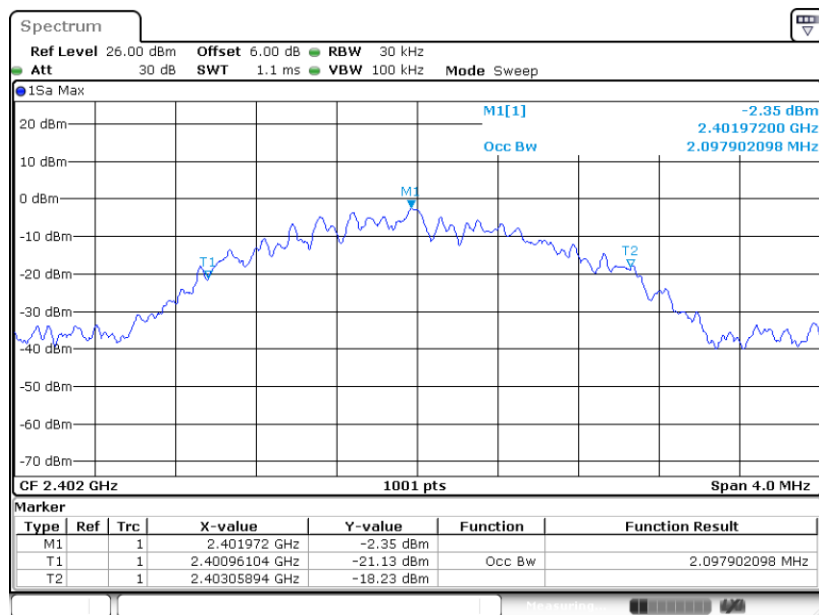


Date: 21.MAY.2021 15:23:34



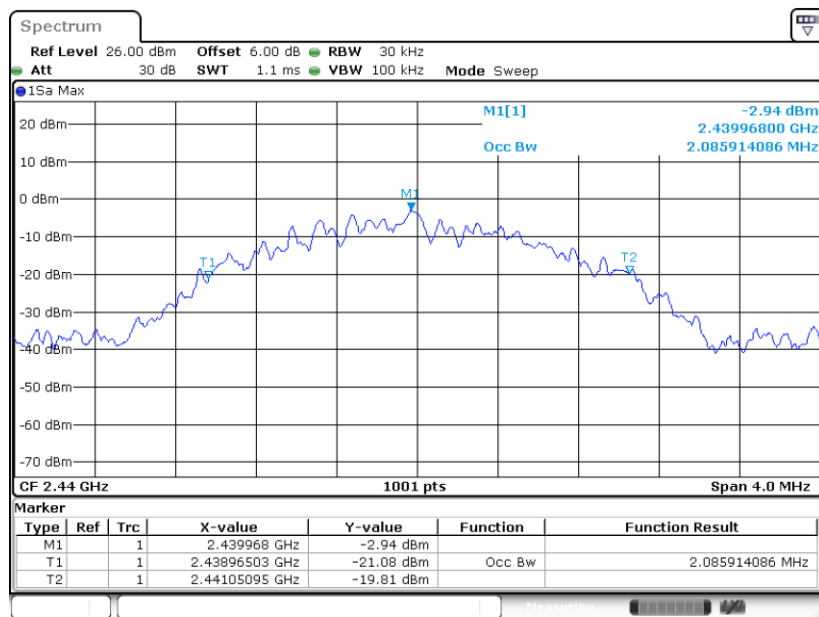
Bluetooth LE 2Mbps

99% Occupied Bandwidth Plot on Channel 00



Date: 21.MAY.2021 08:53:06

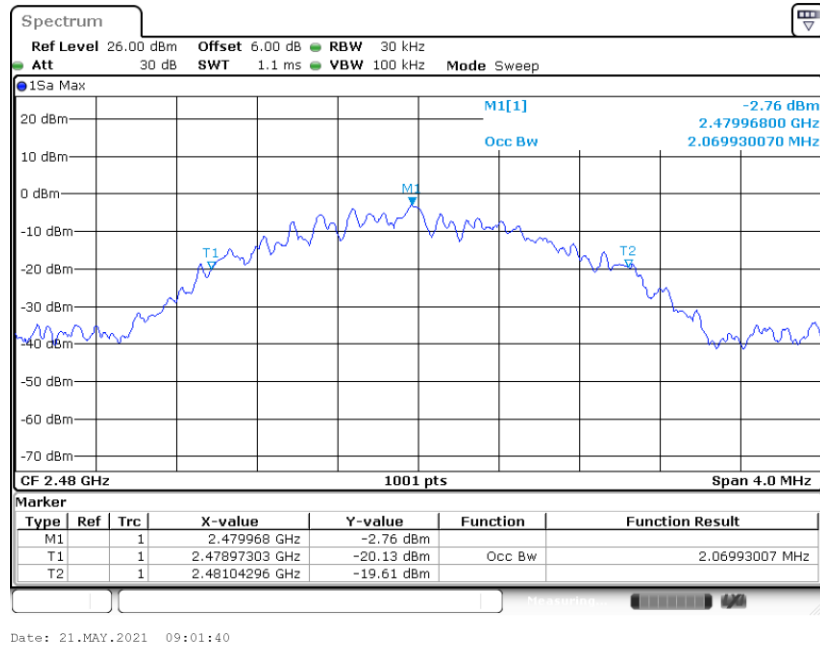
99% Occupied Bandwidth Plot on Channel 19



Date: 21.MAY.2021 08:59:00



99% Occupied Bandwidth Plot on Channel 39



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

3.2 Output Power Measurement

3.2.1 Limit of 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.

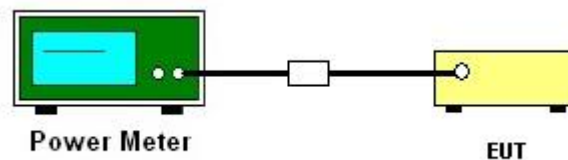
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.2 Method AVGPM-G 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

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

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.

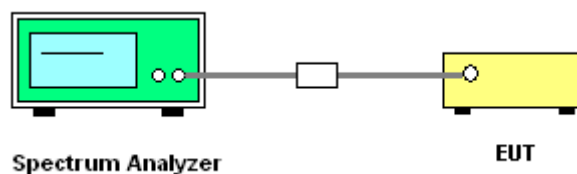
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
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



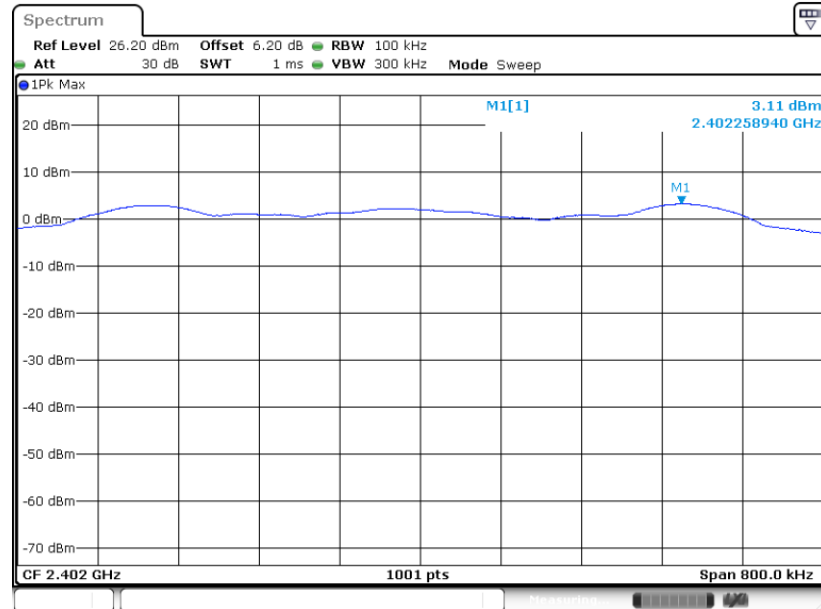
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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

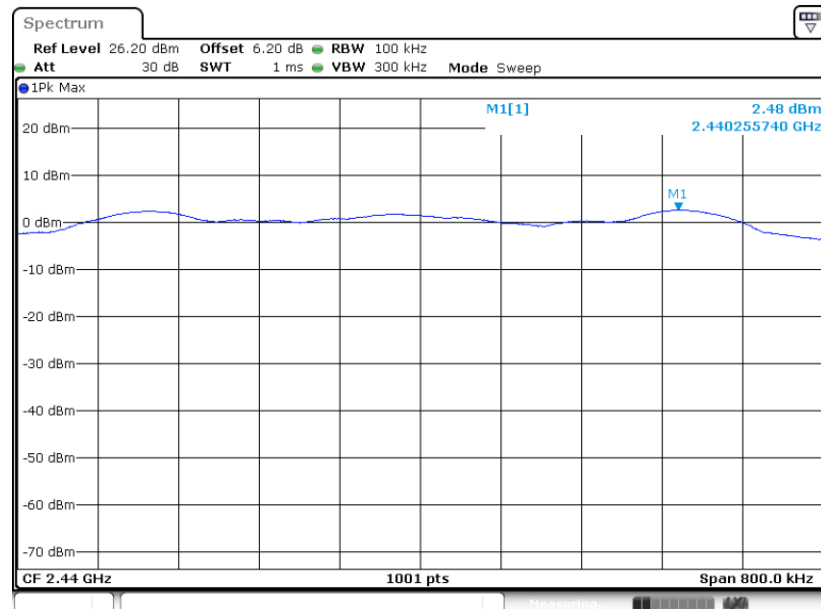
Bluetooth LE 1Mbps

PSD 100kHz Plot on Channel 00



Date: 21.MAY.2021 15:14:46

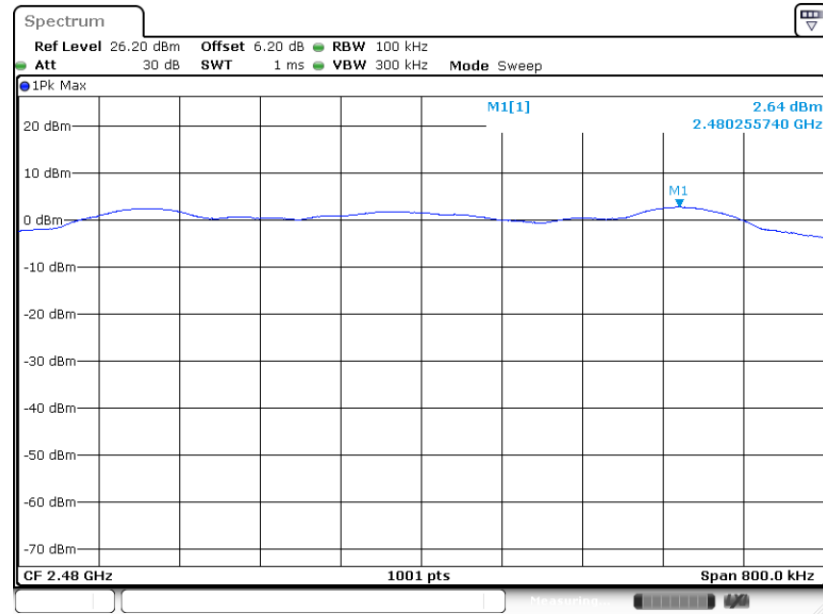
PSD 100kHz Plot on Channel 19



Date: 21.MAY.2021 15:18:43



PSD 100kHz Plot on Channel 39

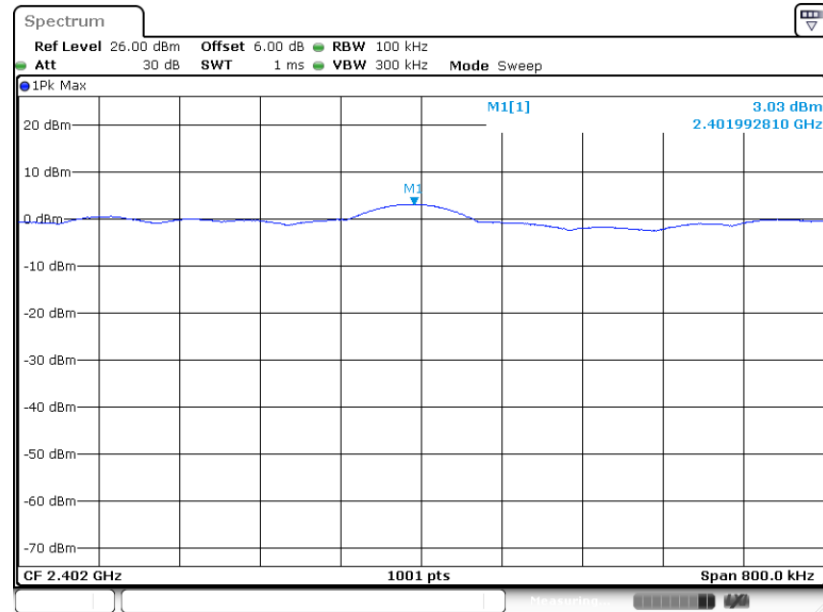


Date: 21.MAY.2021 15:21:33



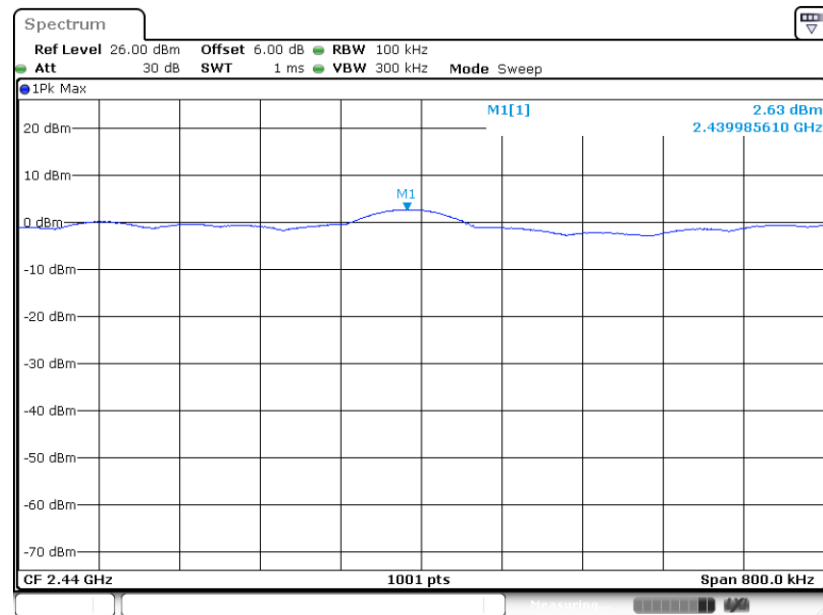
Bluetooth LE 2Mbps

PSD 100kHz Plot on Channel 00



Date: 21.MAY.2021 15:30:46

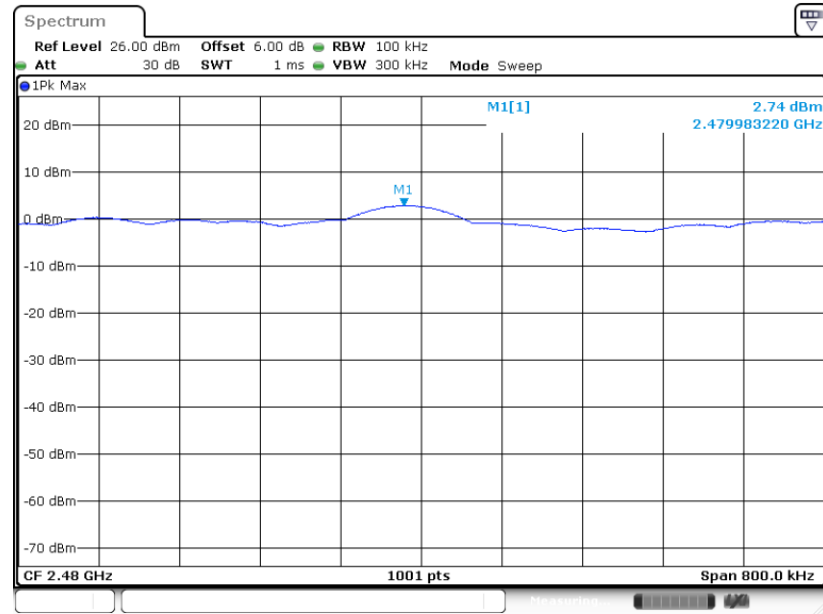
PSD 100kHz Plot on Channel 19



Date: 21.MAY.2021 08:56:36



PSD 100kHz Plot on Channel 39



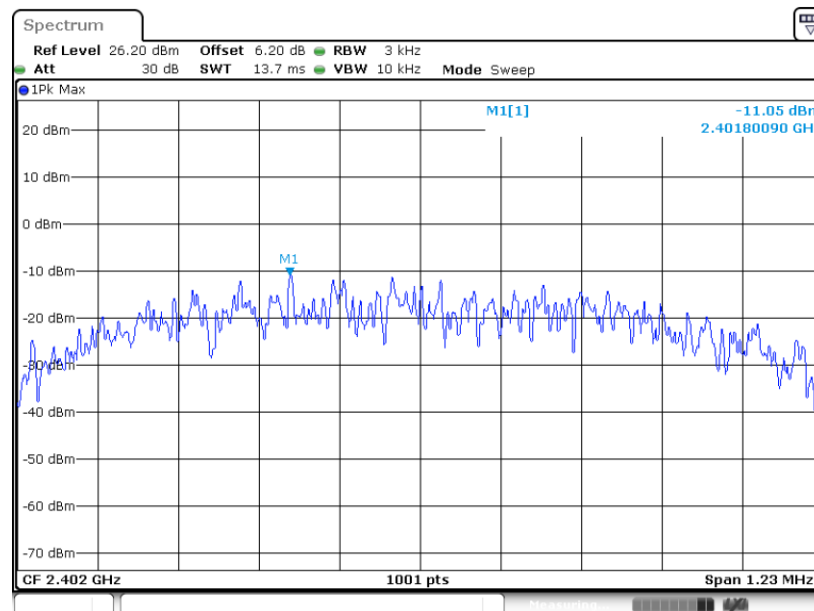
Date: 21.MAY.2021 09:00:46



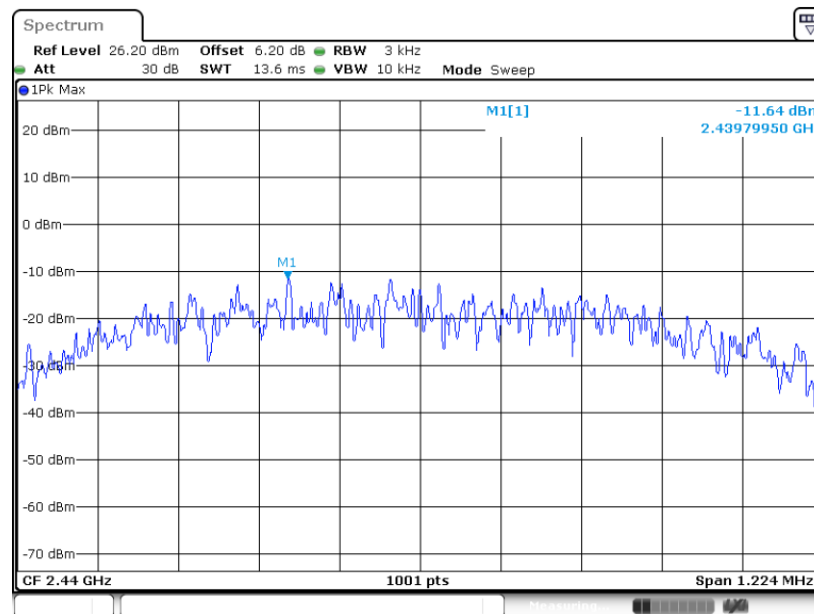
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

Bluetooth LE 1Mbps

PSD 3kHz Plot on Channel 00

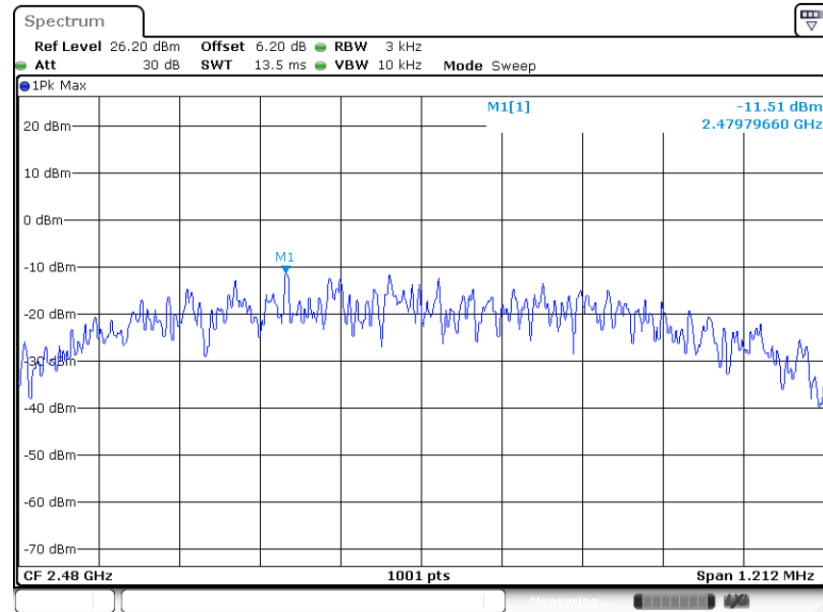


PSD 3kHz Plot on Channel 19





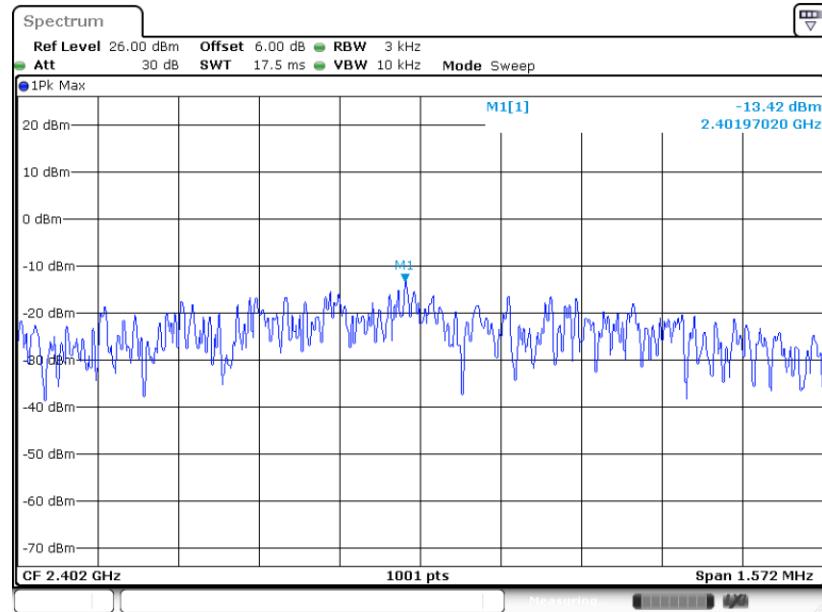
PSD 3kHz Plot on Channel 39



Date: 21.MAY.2021 15:21:05

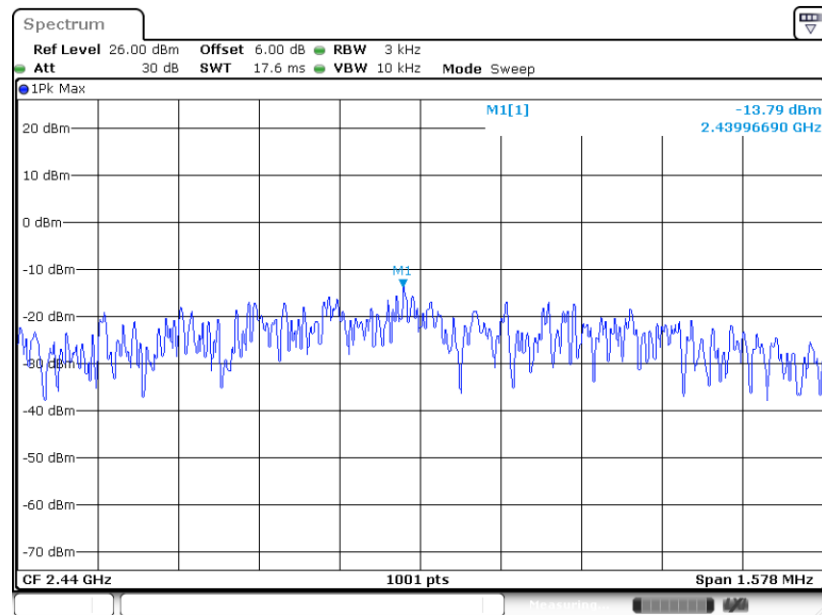
Bluetooth LE 2Mbps

PSD 3kHz Plot on Channel 00



Date: 21.MAY.2021 15:30:18

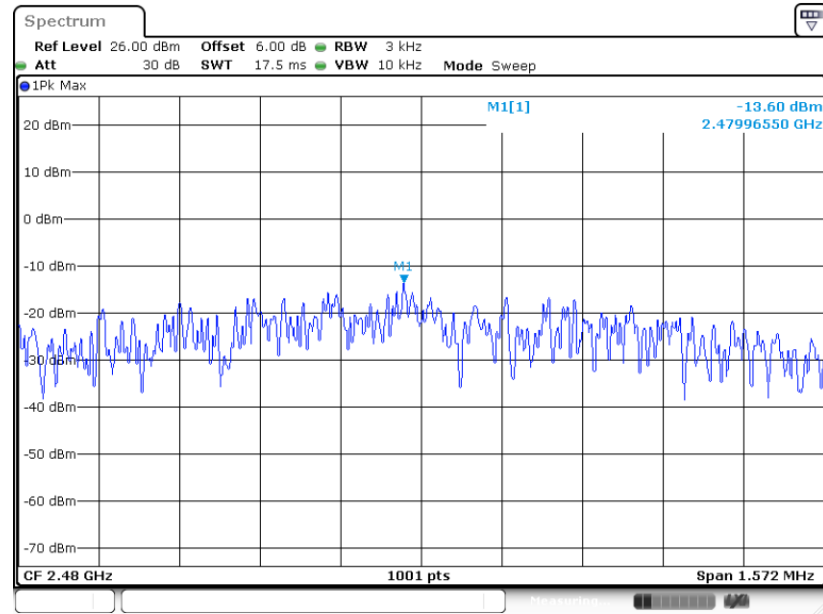
PSD 3kHz Plot on Channel 19



Date: 21.MAY.2021 08:56:05



PSD 3kHz Plot on Channel 39



Date: 21.MAY.2021 09:00:21

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.

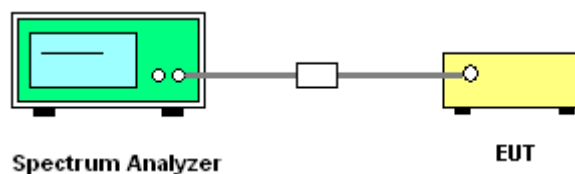
3.4.2 Measuring Instruments

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 ANSI C63.10-2013 clause 11.13
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

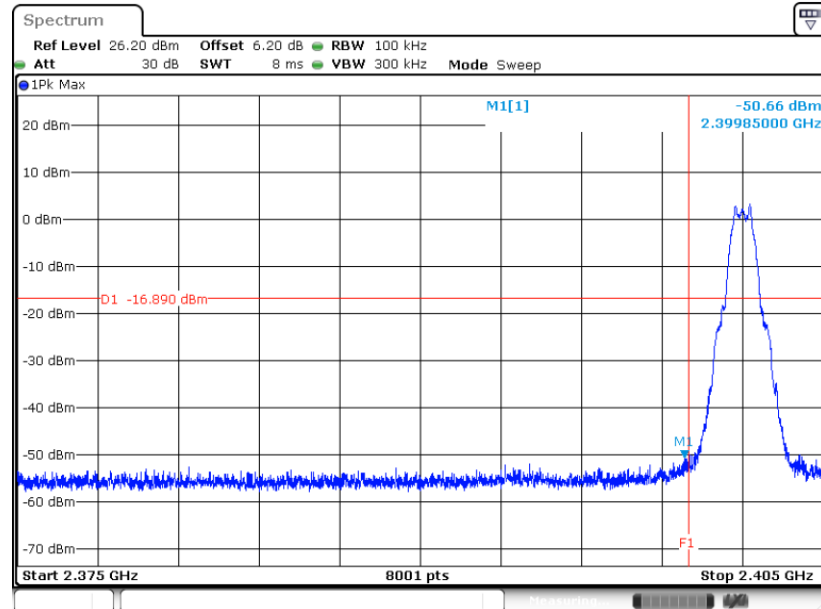




3.4.5 Test Result of Conducted Band Edges Plots

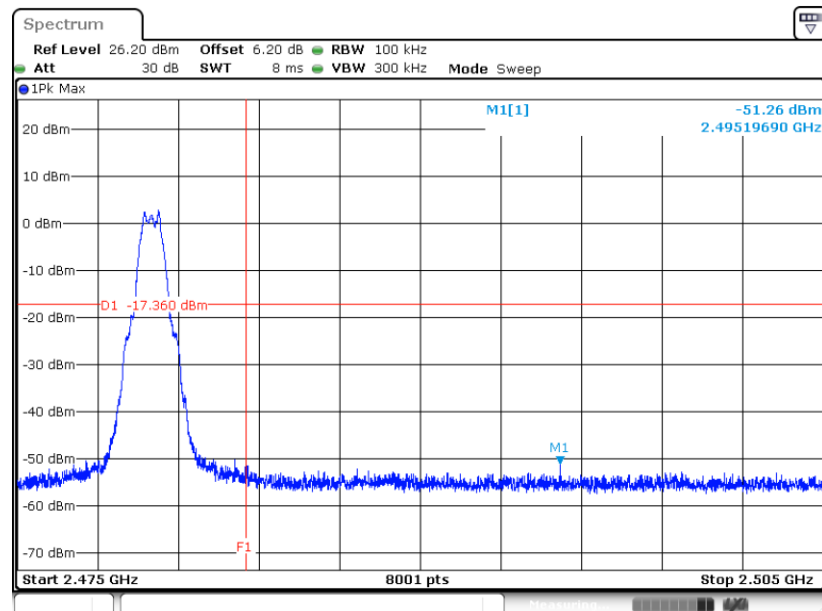
Bluetooth LE 1Mbps

Low Band Edge Plot on Channel 00



Date: 21.MAY.2021 15:15:09

High Band Edge Plot on Channel 39

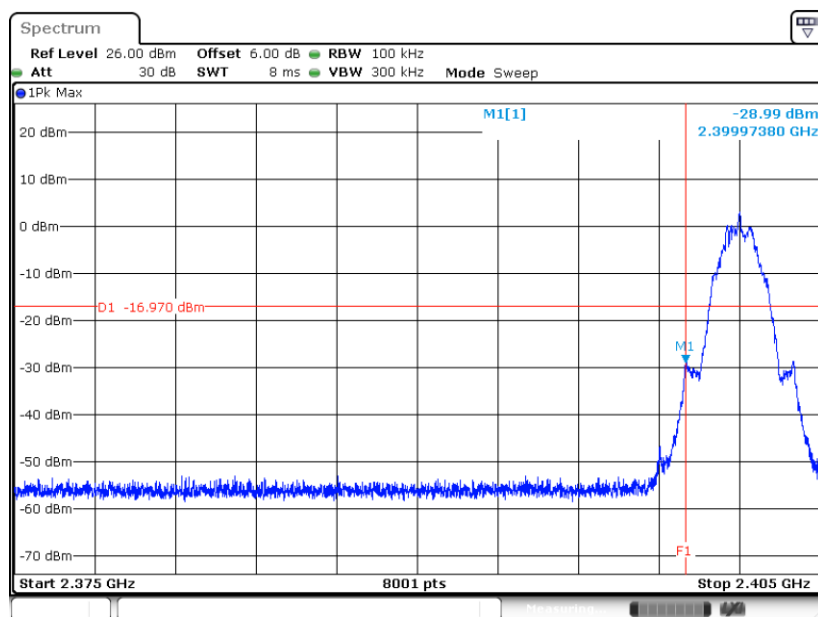


Date: 21.MAY.2021 15:21:45



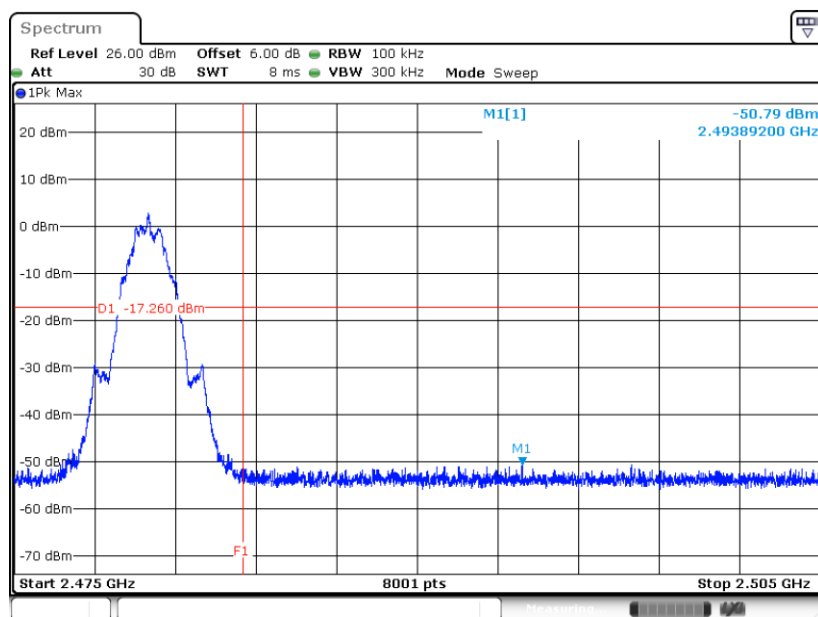
Bluetooth LE 2Mbps

Low Band Edge Plot on Channel 00



Date: 21.MAY.2021 15:30:57

High Band Edge Plot on Channel 39



Date: 21.MAY.2021 09:00:58

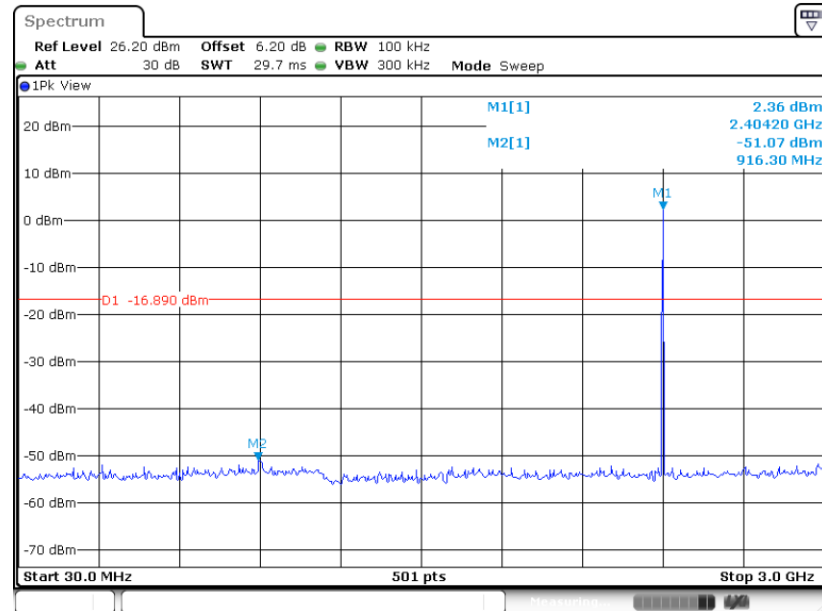


3.4.6 Test Result of Conducted Spurious Emission Plots

Bluetooth LE 1Mbps

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

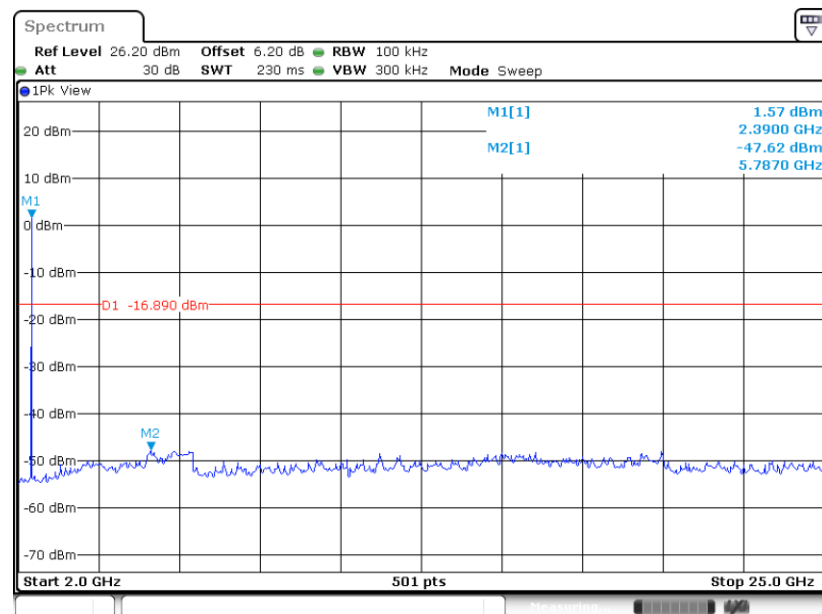
GFSK Channel 00



Date: 21.MAY.2021 15:16:12

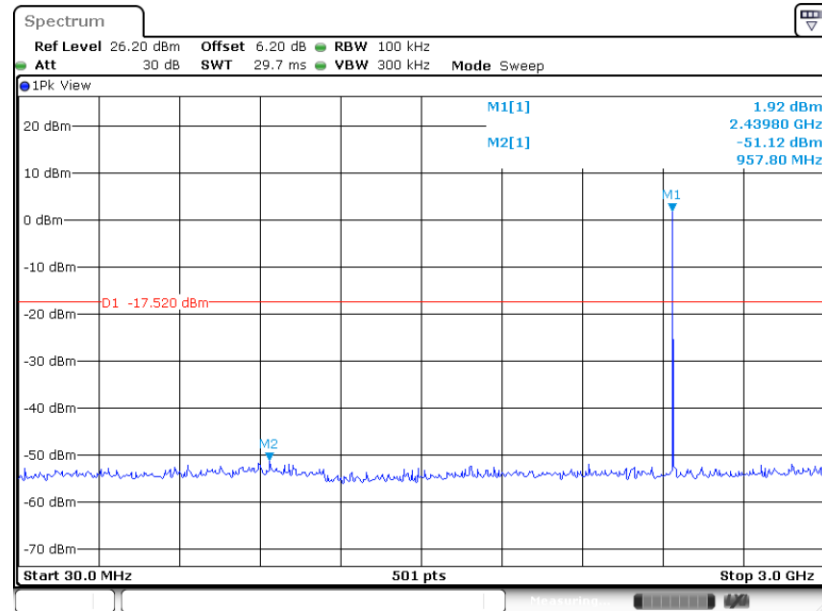
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

GFSK Channel 00



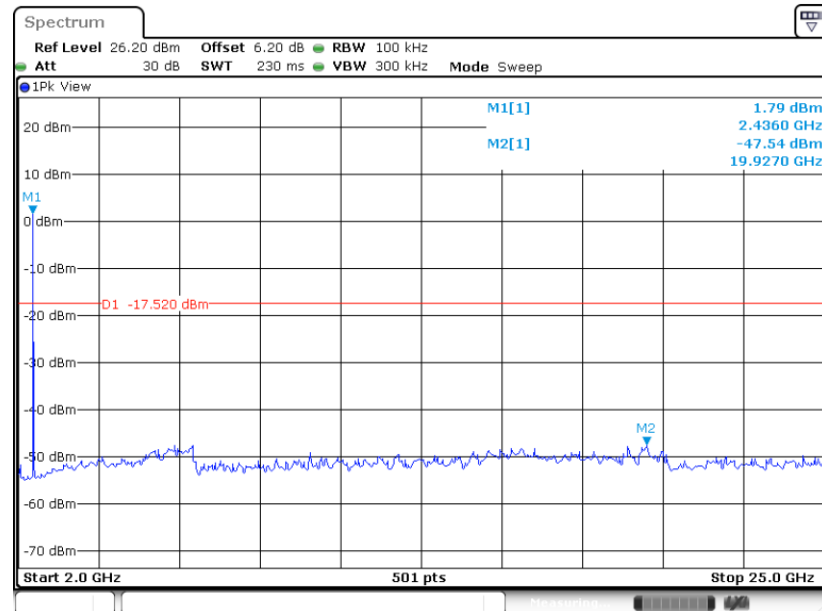
Date: 21.MAY.2021 15:16:24

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



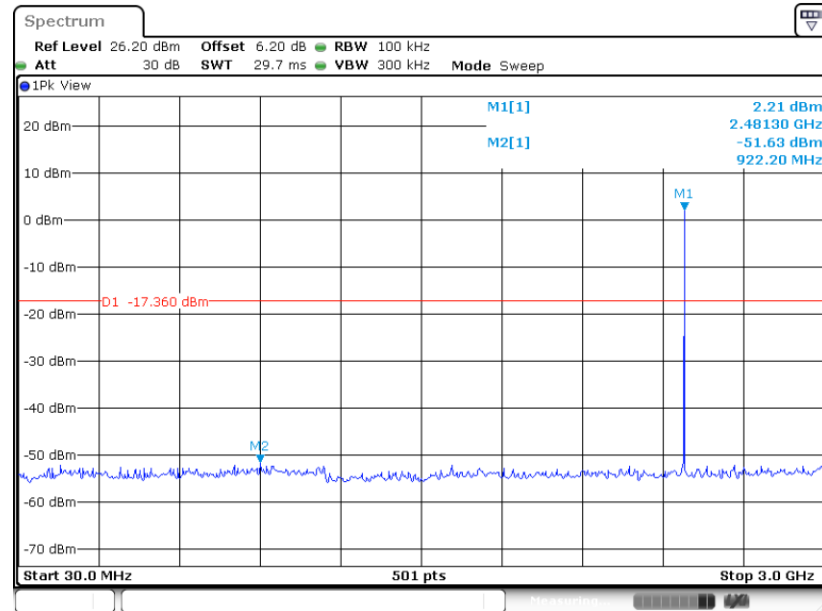
Date: 21.MAY.2021 15:19:52

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



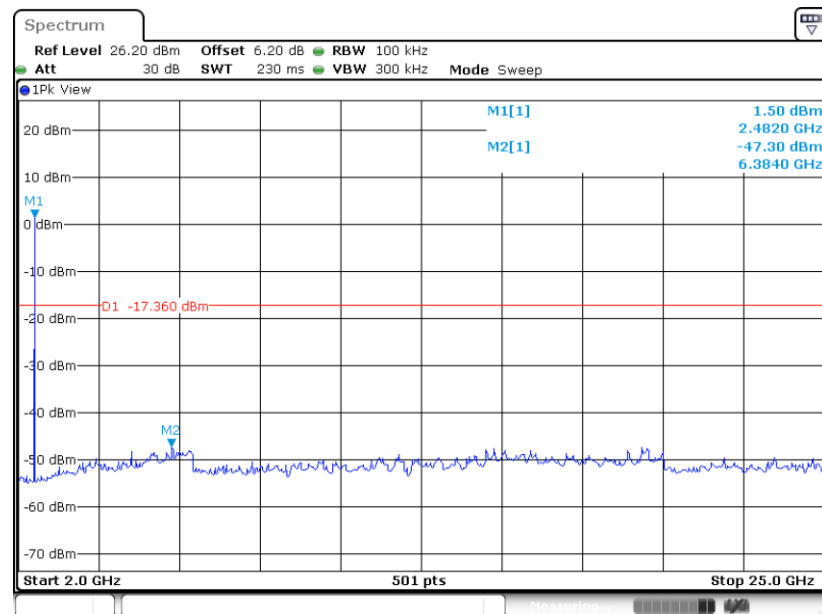
Date: 21.MAY.2021 15:20:03

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 21.MAY.2021 15:23:14

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



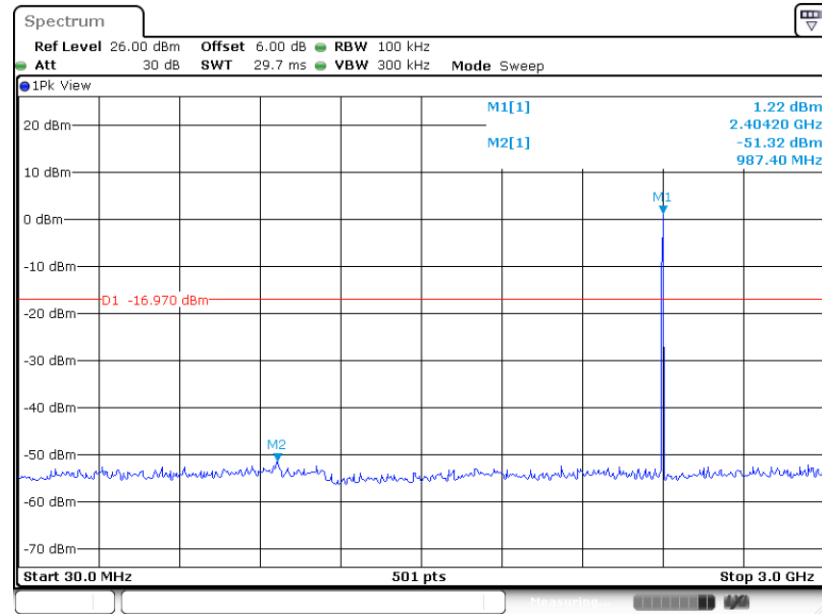
Date: 21.MAY.2021 15:23:24



Bluetooth LE 2Mbps

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

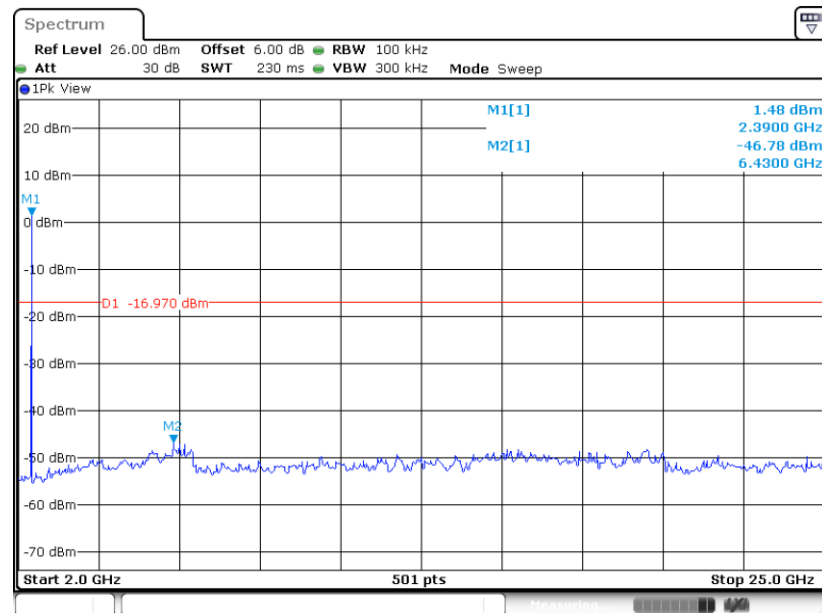
GFSK Channel 00



Date: 21.MAY.2021 15:34:13

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

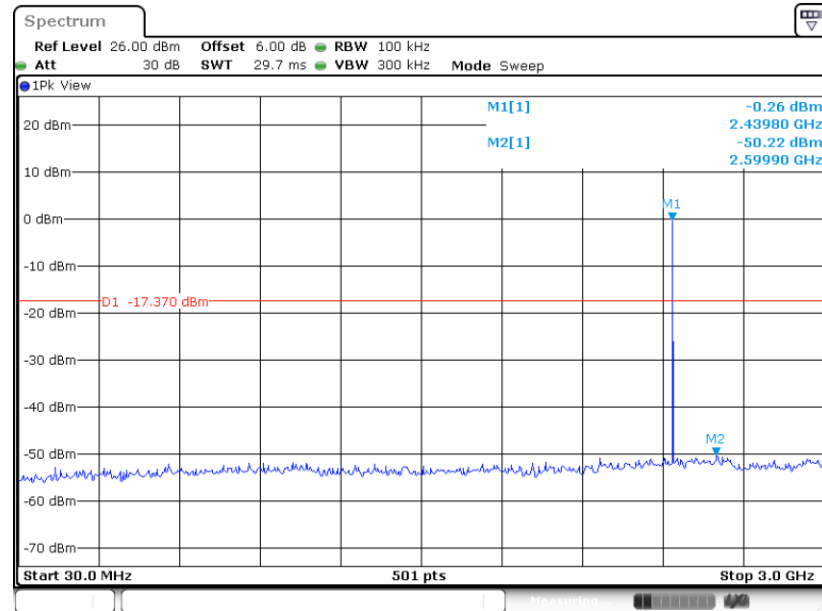
GFSK Channel 01



Date: 21.MAY.2021 15:34:24

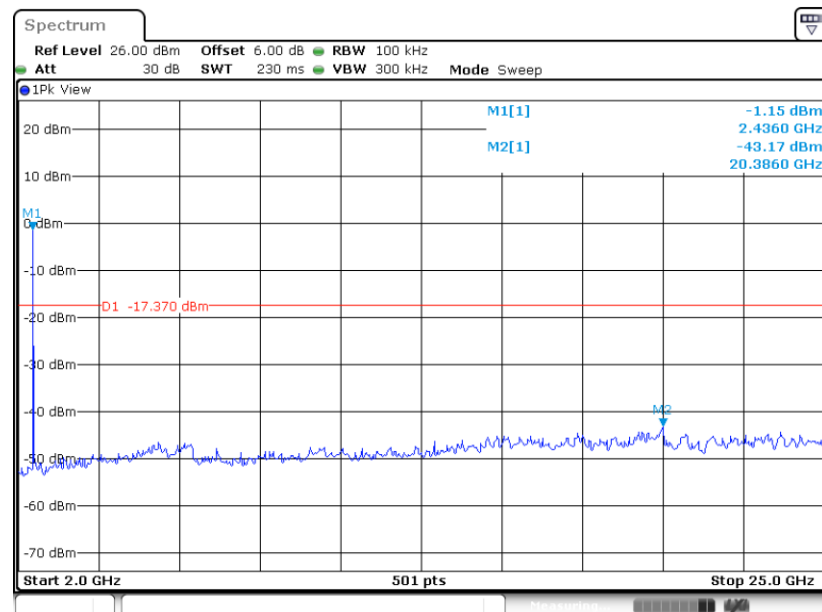


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 19



Date: 21.MAY.2021 08:57:52

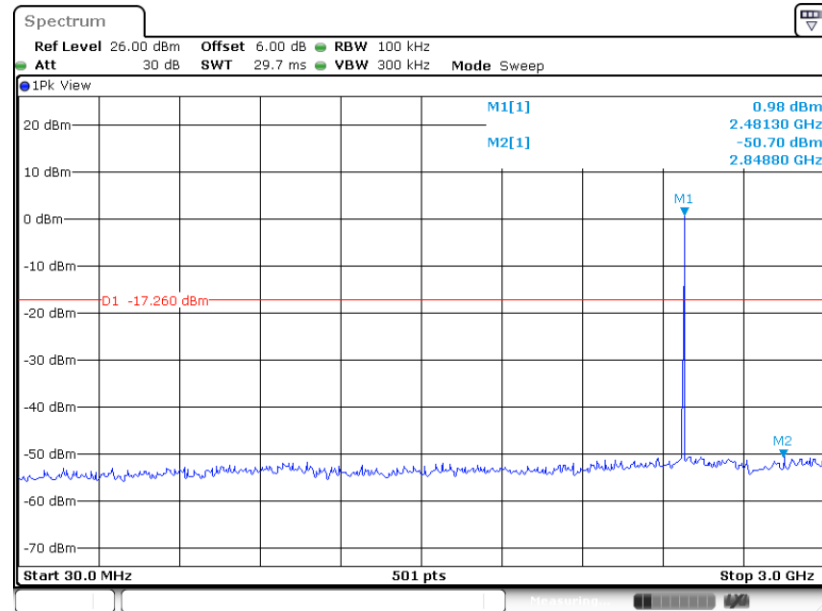
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 19



Date: 21.MAY.2021 08:58:04

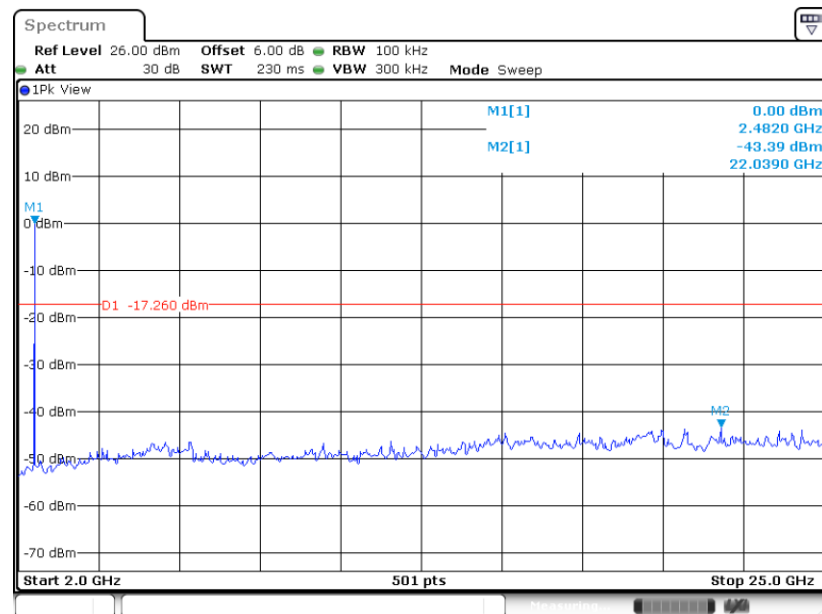


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 39



Date: 21.MAY.2021 09:01:18

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps
GFSK Channel 39



Date: 21.MAY.2021 09:01:29

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

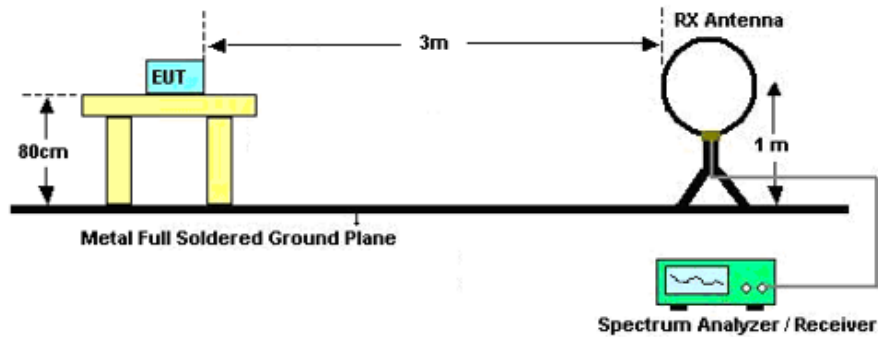
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

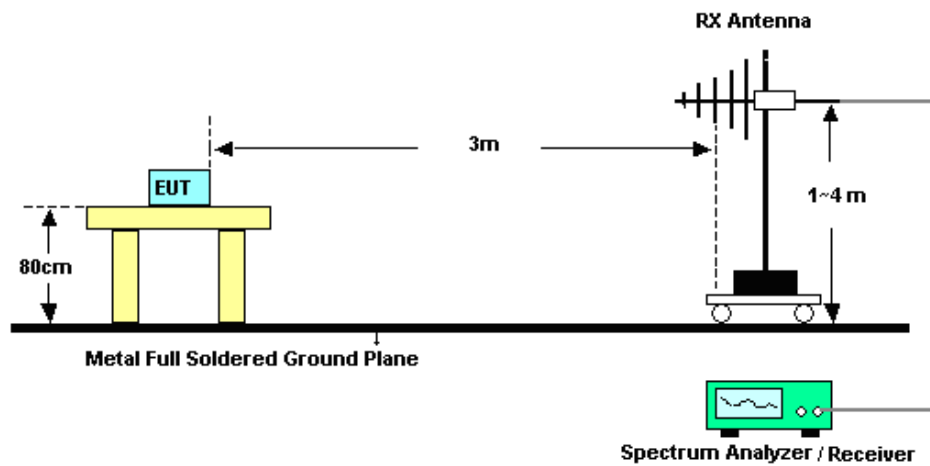
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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 testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. 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; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, 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.

3.5.4 Test Setup

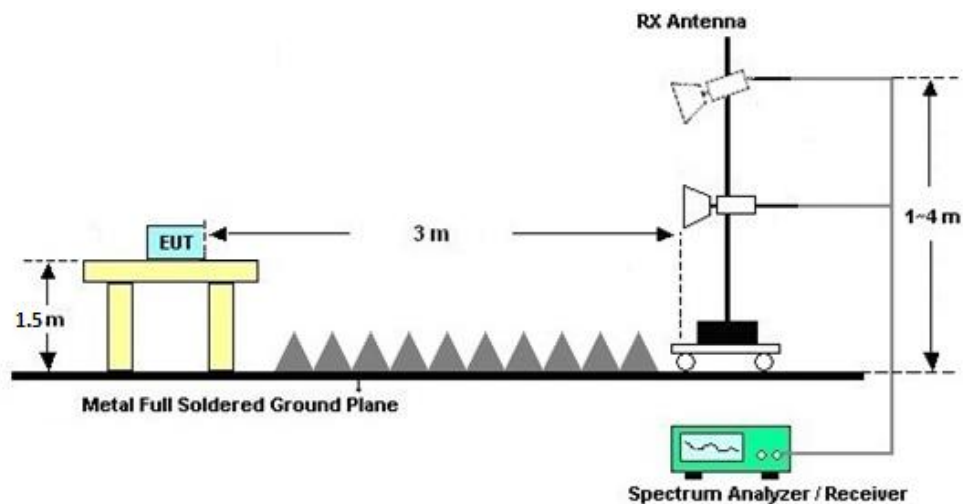
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



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.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B & C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B & C.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	May 21, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	May 21, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	May 21, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 17, 2020	May 27, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 12, 2021	May 27, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	May 27, 2021	Oct. 31, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 29, 2020	May 27, 2021	May 28, 2021	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	May 27, 2021	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	May 27, 2021	Nov. 09, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	May 27, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	May 27, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	May 27, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	May 27, 2021	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 27, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 27, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 27, 2021	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Appendix A. Conducted Test Results

Bluetooth Low Energy 1Mbps

Test Engineer:	Jiang Jun	Temperature:	20~26	°C
Test Date:	2021/5/21	Relative Humidity:	40~51	%

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	1.143	0.820	0.50	Pass
BLE	1Mbps	1	19	2440	1.135	0.816	0.50	Pass
BLE	1Mbps	1	39	2480	1.125	0.808	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	Ntx	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	3.89	30.00	3.60	7.49	36.00	Pass
BLE	1Mbps	1	19	2440	3.22	30.00	3.60	6.82	36.00	Pass
BLE	1Mbps	1	39	2480	3.43	30.00	3.60	7.03	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.04	3.52
BLE	1Mbps	1	19	2440	2.04	2.93
BLE	1Mbps	1	39	2480	2.04	3.16

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	Ntx	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	3.11	-11.05	3.60	8.00	Pass
BLE	1Mbps	1	19	2440	2.48	-11.64	3.60	8.00	Pass
BLE	1Mbps	1	39	2480	2.64	-11.51	3.60	8.00	Pass

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

Bluetooth Low Energy 2Mbps

Test Engineer:	Jiang Jun	Temperature:	20~26	°C
Test Date:	2021/5/21	Relative Humidity:	40~51	%

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	2Mbps	1	0	2402	2.098	1.048	0.50	Pass
BLE	2Mbps	1	19	2440	2.086	1.052	0.50	Pass
BLE	2Mbps	1	39	2480	2.070	1.048	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	3.69	30.00	3.60	7.29	36.00	Pass
BLE	2Mbps	1	19	2440	3.03	30.00	3.60	6.63	36.00	Pass
BLE	2Mbps	1	39	2480	3.23	30.00	3.60	6.83	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.83	3.25
BLE	2Mbps	1	19	2440	4.83	2.97
BLE	2Mbps	1	39	2480	4.83	3.08

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	3.03	-13.42	3.60	8.00	Pass
BLE	2Mbps	1	19	2440	2.63	-13.79	3.60	8.00	Pass
BLE	2Mbps	1	39	2480	2.74	-13.60	3.60	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

Bluetooth LE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2358.1	54.65	-19.35	74	48.03	32.05	8.02	33.45	146	68	P	H
		2384.36	44.41	-9.59	54	37.65	32.15	8.06	33.45	146	68	A	H
	*	2402	100.83	-	-	93.98	32.2	8.09	33.44	146	68	P	H
	*	2402	100.06	-	-	93.21	32.2	8.09	33.44	146	68	A	H
		2383.45	55.74	-18.26	74	47.84	33.29	8.06	33.45	380	111	P	V
		2388.13	45.64	-8.36	54	37.5	33.5	8.09	33.45	380	111	A	V
	*	2402	98.6	-	-	90.45	33.5	8.09	33.44	380	111	P	V
	*	2402	97.88	-	-	89.73	33.5	8.09	33.44	380	111	A	V
BLE CH 19 2440MHz		2349.52	54.34	-19.66	74	47.75	32.05	7.99	33.45	168	64	P	H
		2372.66	44.42	-9.58	54	37.71	32.1	8.06	33.45	168	64	A	H
		2488.6	54.26	-19.74	74	47.74	31.7	8.24	33.42	168	64	P	H
		2484.88	44.39	-9.61	54	37.8	31.8	8.22	33.43	168	64	A	H
	*	2440	101.31	-	-	94.58	32	8.16	33.43	168	64	P	H
	*	2440	100.6	-	-	93.87	32	8.16	33.43	168	64	A	H
		2375.78	55.37	-18.63	74	47.47	33.29	8.06	33.45	367	105	P	V
		2389.56	45.55	-8.45	54	37.41	33.5	8.09	33.45	367	105	A	V
		2494.36	55.3	-18.7	74	47.75	32.73	8.24	33.42	367	105	P	V
		2490.88	45.34	-8.66	54	37.79	32.73	8.24	33.42	367	105	A	V
	*	2440	98.37	-	-	90.53	33.11	8.16	33.43	367	105	P	V
	*	2440	97.53	-	-	89.69	33.11	8.16	33.43	367	105	A	V



BLE CH 39 2480MHz		2483.74	54.42	-19.58	74	47.83	31.8	8.22	33.43	107	62	P	H
		2483.5	47.05	-6.95	54	40.46	31.8	8.22	33.43	107	62	A	H
	*	2480	100.66	-	-	94.07	31.8	8.22	33.43	107	62	P	H
	*	2480	99.95	-	-	93.36	31.8	8.22	33.43	107	62	A	H
		2491.54	55.6	-18.4	74	48.05	32.73	8.24	33.42	353	100	P	V
		2483.5	47.17	-6.83	54	39.52	32.86	8.22	33.43	353	100	A	V
	*	2480	98.7	-	-	91.05	32.86	8.22	33.43	353	100	P	V
	*	2480	97.94	-	-	90.29	32.86	8.22	33.43	353	100	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4806	44.38	-29.62	74	59.08	34.96	11.51	61.17	300	0	P	H
		4806	44.43	-29.57	74	59.25	34.84	11.51	61.17	300	360	P	V
BLE CH 19 2440MHz		4878	43.86	-30.14	74	58.33	35.04	11.6	61.11	300	0	P	H
		7320	43.13	-30.87	74	52.65	36.86	14.69	61.07	300	0	P	H
		4878	44.1	-29.9	74	58.78	34.83	11.6	61.11	300	360	P	V
		7320	42.62	-31.38	74	52.6	36.4	14.69	61.07	300	360	P	V
BLE CH 39 2480MHz		4962	47.44	-26.56	74	61.63	35.14	11.71	61.04	300	0	P	H
		7440	43.22	-30.78	74	52.5	36.89	14.88	61.05	300	0	P	H
		4962	44.3	-29.7	74	58.82	34.81	11.71	61.04	300	360	P	V
		7440	42.85	-31.15	74	52.55	36.47	14.88	61.05	300	360	P	V
Remark	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	Path	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)
2.4GHz BLE LF		30	20.97	-19.03	40	27.79	25.3	0.58	32.7	-	-	P	H
		96.93	18.88	-24.62	43.5	34.39	15.68	1.59	32.78	-	-	P	H
		460.68	22.78	-23.22	46	28.7	23.31	3.49	32.72	-	-	P	H
		690.57	26.2	-19.8	46	28.01	26.7	4.27	32.78	-	-	P	H
		831.22	28.73	-17.27	46	27.75	28.84	4.7	32.56	203	35	P	H
		979.63	27.67	-26.33	54	24.47	30.28	5.1	32.18	-	-	P	H
		30.97	21.59	-18.41	40	29.66	24.04	0.59	32.7	108	98	P	V
		96.93	19.02	-24.48	43.5	33.74	16.47	1.59	32.78	-	-	P	V
		442.25	22.73	-23.27	46	29.57	22.46	3.42	32.72	-	-	P	V
		557.68	25.07	-20.93	46	28.86	24.95	3.84	32.58	-	-	P	V
		855.47	27.56	-18.44	46	28.95	26.43	4.77	32.59	-	-	P	V
		965.08	27.22	-26.78	54	27.35	27.05	5.06	32.24	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Bluetooth LE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2366.03	54.14	-19.86	74	47.47	32.1	8.02	33.45	146	67	P	H
		2389.3	43.88	-10.12	54	37.09	32.15	8.09	33.45	146	67	A	H
	*	2402	101.37	-	-	94.52	32.2	8.09	33.44	146	67	P	H
	*	2402	99.78	-	-	92.93	32.2	8.09	33.44	146	67	A	H
		2386.83	55.72	-18.28	74	47.58	33.5	8.09	33.45	382	111	P	V
		2388.26	45.14	-8.86	54	37	33.5	8.09	33.45	382	111	A	V
	*	2402	99.34	-	-	91.19	33.5	8.09	33.44	382	111	P	V
	*	2402	97.72	-	-	89.57	33.5	8.09	33.44	382	111	A	V
BLE CH 19 2440MHz		2381.76	55.1	-18.9	74	48.39	32.1	8.06	33.45	169	64	P	H
		2382.93	44.07	-9.93	54	37.31	32.15	8.06	33.45	169	64	A	H
		2489.74	53.94	-20.06	74	47.42	31.7	8.24	33.42	169	64	P	H
		2483.98	43.92	-10.08	54	37.33	31.8	8.22	33.43	169	64	A	H
	*	2440	101.8	-	-	95.07	32	8.16	33.43	169	64	P	H
	*	2440	100.4	-	-	93.67	32	8.16	33.43	169	64	A	H
		2381.89	55.48	-18.52	74	47.58	33.29	8.06	33.45	369	103	P	V
		2389.69	45.45	-8.55	54	37.31	33.5	8.09	33.45	369	103	A	V
		2499.58	55.12	-18.88	74	47.57	32.73	8.24	33.42	369	103	P	V
		2486.02	44.96	-9.04	54	37.3	32.86	8.22	33.42	369	103	A	V
	*	2440	98.66	-	-	90.82	33.11	8.16	33.43	369	103	P	V
	*	2440	97.23	-	-	89.39	33.11	8.16	33.43	369	103	A	V



BLE CH 39 2480MHz		2483.5	56.2	-17.8	74	49.61	31.8	8.22	33.43	157	236	P	H
		2483.5	50.29	-3.71	54	43.7	31.8	8.22	33.43	157	236	A	H
	*	2480	100.83	-	-	94.24	31.8	8.22	33.43	157	236	P	H
	*	2480	99.59	-	-	93	31.8	8.22	33.43	157	236	A	H
		2483.56	56.4	-17.6	74	48.75	32.86	8.22	33.43	353	103	P	V
		2483.5	48.49	-5.51	54	40.84	32.86	8.22	33.43	353	103	A	V
	*	2480	98.26	-	-	90.61	32.86	8.22	33.43	353	103	P	V
	*	2480	96.8	-	-	89.15	32.86	8.22	33.43	353	103	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4806	44.67	-29.33	74	59.37	34.96	11.51	61.17	300	0	P	H
		4806	45.03	-28.97	74	59.85	34.84	11.51	61.17	300	360	P	V
BLE CH 19 2440MHz		4878	44.61	-29.39	74	59.08	35.04	11.6	61.11	300	0	P	H
		7320	43.21	-30.79	74	52.73	36.86	14.69	61.07	300	0	P	H
		4878	44.02	-29.98	74	58.7	34.83	11.6	61.11	300	360	P	V
		7320	42.44	-31.56	74	52.42	36.4	14.69	61.07	300	360	P	V
BLE CH 39 2480MHz		4962	46.14	-27.86	74	60.33	35.14	11.71	61.04	300	0	P	H
		7440	42.48	-31.52	74	51.76	36.89	14.88	61.05	300	0	P	H
		4962	44.01	-29.99	74	58.53	34.81	11.71	61.04	300	360	P	V
		7440	42.2	-31.8	74	51.9	36.47	14.88	61.05	300	360	P	V
Remark	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	Path	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)
2.4GHz BLE LF		30	19.97	-20.03	40	26.79	25.3	0.58	32.7	-	-	P	H
		96.93	17.88	-25.62	43.5	33.39	15.68	1.59	32.78	-	-	P	H
		565.44	24.71	-21.29	46	28.06	25.35	3.87	32.57	-	-	P	H
		690.57	25.2	-20.8	46	27.01	26.7	4.27	32.78	-	-	P	H
		831.22	27.73	-18.27	46	26.75	28.84	4.7	32.56	185	65	P	H
		979.63	26.67	-27.33	54	23.47	30.28	5.1	32.18	-	-	P	H
		30.97	20.59	-19.41	40	28.66	24.04	0.59	32.7	120	36	P	V
		96.93	22.02	-21.48	43.5	36.74	16.47	1.59	32.78	-	-	P	V
		557.68	24.07	-21.93	46	27.86	24.95	3.84	32.58	-	-	P	V
		694.45	25.4	-20.6	46	29.08	24.83	4.28	32.79	-	-	P	V
		855.47	26.56	-19.44	46	27.95	26.43	4.77	32.59	-	-	P	V
		982.54	26.33	-27.67	54	26.17	27.23	5.1	32.17	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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	P eak or A verage
H/V	H orizontal or V ertical



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

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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)
BLE CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

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

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix C. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



Bluetooth LE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																										
ANT		BLE CH00 2402MHz																																																																										
1		Horizontal					Fundamental																																																																					
Peak	Site : 032005-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 2000.000kHz SRT Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2308.10</td><td>54.65</td><td>-19.35</td><td>74.00</td><td>48.03</td><td>32.05</td><td>8.02</td><td>33.45</td><td>146</td><td>68 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	dB	cm	deg			1	2308.10	54.65	-19.35	74.00	48.03	32.05	8.02	33.45	146	68 Peak	Site : 032005-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VBW 2000.000kHz SRT Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00</td><td>100.83</td><td>26.83</td><td>74.00</td><td>93.98</td><td>32.20</td><td>8.09</td><td>33.44</td><td>146</td><td>68 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	dB	cm	deg			1	2402.00	100.83	26.83	74.00	93.98	32.20	8.09	33.44	146	68 Peak
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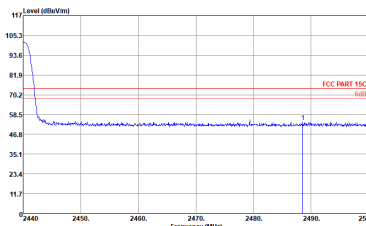
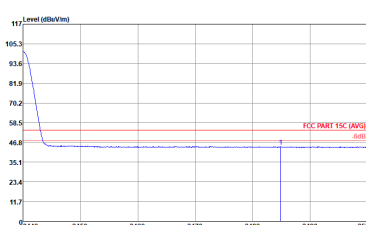


BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																								
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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																
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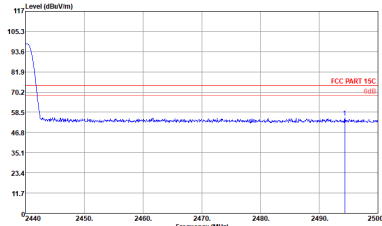
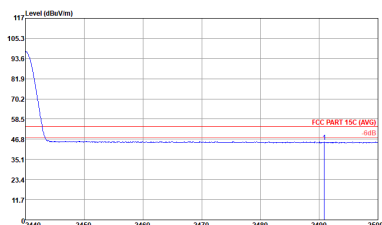


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Avg.	Site : 030906-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.000kHz SMT:Auto <table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.50</td><td>47.05</td><td>-6.95</td><td>54.00</td><td>40.46</td><td>31.80</td><td>8.22</td><td>33.43</td><td>107</td><td>62</td><td>Average</td><td>HORIZONTAL</td></tr></table>					Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg	1	2483.50	47.05	-6.95	54.00	40.46	31.80	8.22	33.43	107	62	Average	HORIZONTAL	Site : 030906-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL RBW:1000.000kHz VBW:2.000kHz SMT:Auto <table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>99.95</td><td>45.95</td><td>54.00</td><td>93.36</td><td>31.80</td><td>8.22</td><td>33.43</td><td>107</td><td>62</td><td>Average</td><td>HORIZONTAL</td></tr></table>					Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg	1	2480.00	99.95	45.95	54.00	93.36	31.80	8.22	33.43	107	62	Average	HORIZONTAL
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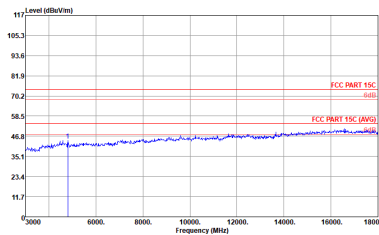
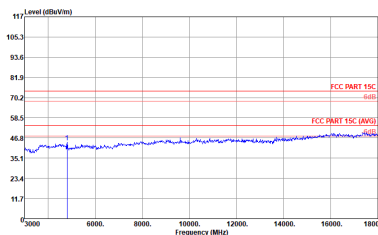


BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																	
ANT		BLE CH39 2480MHz																																																																	
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Peak	Site : 030906-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBuV</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2491.54</td><td>55.60</td><td>-18.40</td><td>74.00</td><td>48.05</td><td>32.73</td><td>8.24</td><td>33.42</td><td>353</td><td>100 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dBuV	cm	deg			1	2491.54	55.60	-18.40	74.00	48.05	32.73	8.24	33.42	353	100 Peak	VERTICAL	Site : 030906-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SFT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBuV</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>98.70</td><td>24.70</td><td>74.00</td><td>91.05</td><td>32.86</td><td>8.22</td><td>33.43</td><td>353</td><td>100 Peak</td><td>VERTICAL</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dBuV	cm	deg			1	2480.00	98.70	24.70	74.00	91.05	32.86	8.22	33.43	353	100 Peak	VERTICAL
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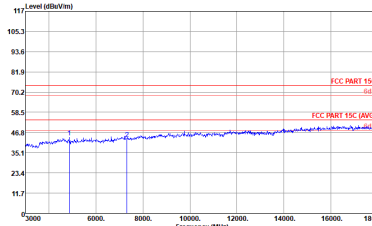
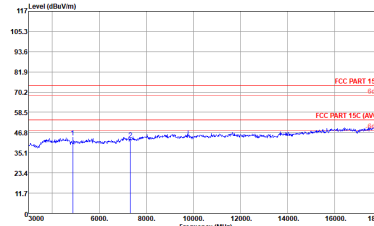


2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																													
ANT	BLE CH00 2402MHz																																																													
1	Horizontal	Vertical																																																												
Peak Avg.	 Site : 032004-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL FIR 1000 000000 Y00 3000 000000 SBT Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4806.00</td><td>44.38</td><td>-29.62</td><td>74.00</td><td>59.08</td><td>34.96</td><td>11.51</td><td>61.17</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dB	cm	deg			1	4806.00	44.38	-29.62	74.00	59.08	34.96	11.51	61.17	300	0 Peak	HORIZONTAL	 Site : 032004-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL FIR 1000 000000 Y00 3000 000000 SBT Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4806.00</td><td>44.43</td><td>-29.57</td><td>74.00</td><td>59.25</td><td>34.84</td><td>11.51</td><td>61.17</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dB	cm	deg			1	4806.00	44.43	-29.57	74.00	59.25	34.84	11.51	61.17	300	360 Peak	VERTICAL
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BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
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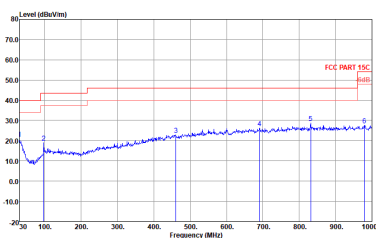
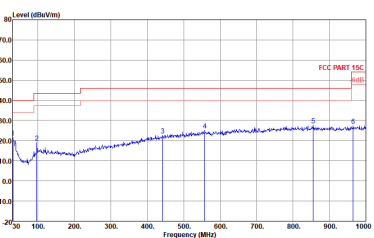


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MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dBm/100kHz	dB	cm	deg																																																																																						
1	4962.00	47.44	-26.56	74.00	61.63	35.14	11.71	61.04	300	0 Peak	HORIZONTAL																																																																																			
2	7440.00	43.22	-30.78	74.00	52.50	36.89	14.88	61.05	300	0 Peak	HORIZONTAL																																																																																			
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																				
MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dBm/100kHz	dB	cm	deg																																																																																						
1	4962.00	44.20	-29.70	74.00	58.82	34.81	11.71	61.04	300	360 Peak	VERTICAL																																																																																			
2	7440.00	42.85	-31.15	74.00	52.50	36.47	14.88	61.05	300	360 Peak	VERTICAL																																																																																			



Emission below 1GHz

2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz																																																																																																																																																																															
ANT	BLE LF																																																																																																																																																																															
1	Horizontal	Vertical																																																																																																																																																																														
QP / Peak	 Site : 032006-KS Condition : FCC PART 15C 3m GBL61110 SN9921 HORIZONTAL RSM 100.000000 VSW 300.000000 SRT Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>30.00</td><td>20.97</td><td>-19.03</td><td>40.00</td><td>27.79</td><td>25.30</td><td>0.58</td><td>32.70</td><td>--- Peak HORIZONTAL</td></tr><tr><td>2</td><td>46.93</td><td>18.88</td><td>-28.05</td><td>43.50</td><td>34.39</td><td>15.68</td><td>1.59</td><td>32.78</td><td>--- Peak HORIZONTAL</td></tr><tr><td>3</td><td>460.68</td><td>22.18</td><td>-23.22</td><td>46.00</td><td>28.70</td><td>23.31</td><td>3.45</td><td>32.72</td><td>--- Peak HORIZONTAL</td></tr><tr><td>4</td><td>495.57</td><td>26.30</td><td>-18.88</td><td>46.00</td><td>28.61</td><td>26.70</td><td>4.27</td><td>32.78</td><td>--- Peak HORIZONTAL</td></tr><tr><td>5</td><td>831.22</td><td>25.73</td><td>-17.27</td><td>46.00</td><td>27.75</td><td>28.86</td><td>6.70</td><td>32.56</td><td>203 --- Peak HORIZONTAL</td></tr><tr><td>6</td><td>976.63</td><td>27.67</td><td>-20.33</td><td>54.00</td><td>24.47</td><td>30.28</td><td>5.10</td><td>32.18</td><td>--- Peak HORIZONTAL</td></tr></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Level	Line	Level Factor	Loss Factor						dBuV/m	dBuV/m	dB	dB	cm	deg			1	30.00	20.97	-19.03	40.00	27.79	25.30	0.58	32.70	--- Peak HORIZONTAL	2	46.93	18.88	-28.05	43.50	34.39	15.68	1.59	32.78	--- Peak HORIZONTAL	3	460.68	22.18	-23.22	46.00	28.70	23.31	3.45	32.72	--- Peak HORIZONTAL	4	495.57	26.30	-18.88	46.00	28.61	26.70	4.27	32.78	--- Peak HORIZONTAL	5	831.22	25.73	-17.27	46.00	27.75	28.86	6.70	32.56	203 --- Peak HORIZONTAL	6	976.63	27.67	-20.33	54.00	24.47	30.28	5.10	32.18	--- Peak HORIZONTAL	 Site : 032006-KS Condition : FCC PART 15C 3m GBL61110 SN2182 VERTICAL RSM 100.000000 VSW 300.000000 SRT Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>30.97</td><td>21.59</td><td>-18.41</td><td>40.00</td><td>29.66</td><td>24.04</td><td>0.59</td><td>32.70</td><td>108 98 Peak VERTICAL</td></tr><tr><td>2</td><td>46.93</td><td>19.02</td><td>-27.91</td><td>43.00</td><td>33.74</td><td>16.47</td><td>1.59</td><td>32.78</td><td>--- Peak VERTICAL</td></tr><tr><td>3</td><td>442.25</td><td>22.73</td><td>-23.27</td><td>46.00</td><td>28.57</td><td>27.66</td><td>3.42</td><td>32.72</td><td>--- Peak VERTICAL</td></tr><tr><td>4</td><td>507.88</td><td>26.57</td><td>-20.93</td><td>46.00</td><td>28.86</td><td>26.76</td><td>3.84</td><td>32.58</td><td>--- Peak VERTICAL</td></tr><tr><td>5</td><td>855.47</td><td>27.54</td><td>-18.44</td><td>46.00</td><td>28.95</td><td>26.43</td><td>4.77</td><td>32.59</td><td>--- Peak VERTICAL</td></tr><tr><td>6</td><td>955.08</td><td>27.22</td><td>-20.78</td><td>54.00</td><td>27.35</td><td>27.05</td><td>5.06</td><td>32.24</td><td>--- Peak VERTICAL</td></tr></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Level	Line	Level Factor	Loss Factor						dBuV/m	dBuV/m	dB	dB	cm	deg			1	30.97	21.59	-18.41	40.00	29.66	24.04	0.59	32.70	108 98 Peak VERTICAL	2	46.93	19.02	-27.91	43.00	33.74	16.47	1.59	32.78	--- Peak VERTICAL	3	442.25	22.73	-23.27	46.00	28.57	27.66	3.42	32.72	--- Peak VERTICAL	4	507.88	26.57	-20.93	46.00	28.86	26.76	3.84	32.58	--- Peak VERTICAL	5	855.47	27.54	-18.44	46.00	28.95	26.43	4.77	32.59	--- Peak VERTICAL	6	955.08	27.22	-20.78	54.00	27.35	27.05	5.06	32.24	--- Peak VERTICAL
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																																																																							
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Bluetooth LE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

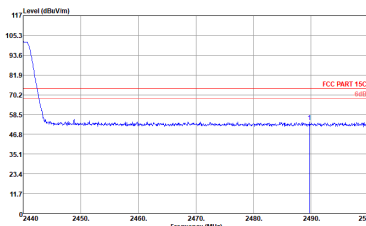
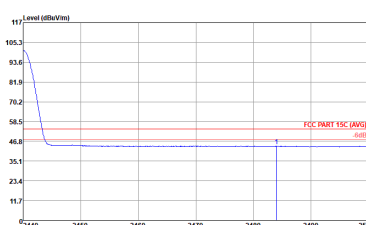
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																											
ANT	BLE CH00 2402MHz																																											
1	Horizontal	Fundamental																																										
Peak	Site : 032004-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VSW 3.000 SRT Auto <table><tr><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq Level Limit Line Level Factor Loss Factor</th><th>dB dBV/m</th><th>dB dBV</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2366.03 54.14 -19.86 74.00 47.47 32.10 8.02 33.45 146</td><td>67 Peak</td><td>HORIZONTAL</td><td></td><td></td><td></td></tr></table>	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq Level Limit Line Level Factor Loss Factor	dB dBV/m	dB dBV	cm	deg			1	2366.03 54.14 -19.86 74.00 47.47 32.10 8.02 33.45 146	67 Peak	HORIZONTAL				Site : 032004-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL RBW 1000.000kHz VSW 3.000 SRT Auto <table><tr><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq Level Limit Line Level Factor Loss Factor</th><th>dB dBV/m</th><th>dB dBV</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00 101.37 27.37 74.00 94.92 32.20 8.09 33.44 146</td><td>67 Peak</td><td>HORIZONTAL</td><td></td><td></td><td></td></tr></table>	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq Level Limit Line Level Factor Loss Factor	dB dBV/m	dB dBV	cm	deg			1	2402.00 101.37 27.37 74.00 94.92 32.20 8.09 33.44 146	67 Peak	HORIZONTAL			
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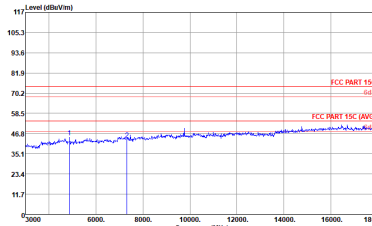
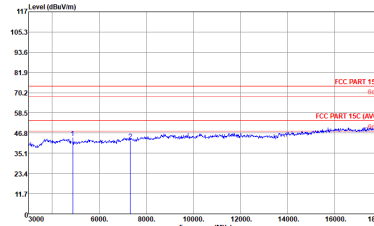


2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																							
ANT	BLE CH00 2402MHz																																																																							
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Peak Avg.	 Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 79957 HORIZONTAL RBW 1000 000kHz VSW 3000 000kHz SRT Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4878.00</td><td>44.61</td><td>-29.39</td><td>74.00</td><td>59.08</td><td>35.04</td><td>11.60</td><td>61.11</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7320.00</td><td>43.21</td><td>-30.79</td><td>74.00</td><td>52.73</td><td>36.86</td><td>14.89</td><td>61.07</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	cm	deg			1	4878.00	44.61	-29.39	74.00	59.08	35.04	11.60	61.11	0 Peak	HORIZONTAL	2	7320.00	43.21	-30.79	74.00	52.73	36.86	14.89	61.07	0 Peak	HORIZONTAL	 Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 79957 VERTICAL RBW 1000 000kHz VSW 3000 000kHz SRT Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4878.00</td><td>44.62</td><td>-29.38</td><td>74.00</td><td>58.70</td><td>34.83</td><td>11.60</td><td>61.11</td><td>300 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7320.00</td><td>42.44</td><td>-31.56</td><td>74.00</td><td>52.42</td><td>36.40</td><td>14.89</td><td>61.07</td><td>300 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	dBm/100kHz	cm	deg			1	4878.00	44.62	-29.38	74.00	58.70	34.83	11.60	61.11	300 Peak	VERTICAL	2	7320.00	42.44	-31.56	74.00	52.42	36.40	14.89	61.07	300 Peak	VERTICAL
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BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																					
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Emission below 1GHz

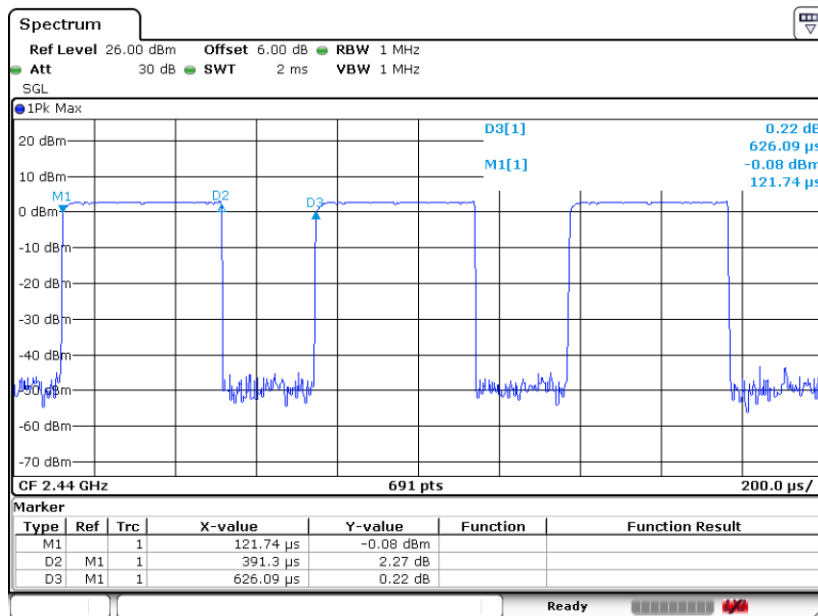
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz																																																																																																																																																																																																	
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QP / Peak	Site : 032005-KS Condition : FCC PART 15C 3m GBL61110 SN0921 HORIZONTAL R08 100.00000u V08 300.00000u SRT Auto <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>30.00</td><td>19.97</td><td>-20.03</td><td>40.00</td><td>26.79</td><td>25.30</td><td>0.58</td><td>32.70</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>66.93</td><td>17.88</td><td>-22.12</td><td>43.50</td><td>33.29</td><td>15.68</td><td>1.59</td><td>32.78</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>540.44</td><td>24.11</td><td>-15.89</td><td>46.00</td><td>28.56</td><td>25.35</td><td>3.21</td><td>32.57</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>696.57</td><td>25.30</td><td>-14.70</td><td>46.00</td><td>27.61</td><td>26.10</td><td>1.51</td><td>32.78</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>831.22</td><td>27.73</td><td>-12.27</td><td>46.00</td><td>26.75</td><td>28.84</td><td>4.70</td><td>32.56</td><td>185</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>979.63</td><td>26.67</td><td>-13.33</td><td>54.00</td><td>23.47</td><td>30.28</td><td>5.10</td><td>32.18</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr></tbody></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg			1	30.00	19.97	-20.03	40.00	26.79	25.30	0.58	32.70	---	Peak	HORIZONTAL	2	66.93	17.88	-22.12	43.50	33.29	15.68	1.59	32.78	---	Peak	HORIZONTAL	3	540.44	24.11	-15.89	46.00	28.56	25.35	3.21	32.57	---	Peak	HORIZONTAL	4	696.57	25.30	-14.70	46.00	27.61	26.10	1.51	32.78	---	Peak	HORIZONTAL	5	831.22	27.73	-12.27	46.00	26.75	28.84	4.70	32.56	185	Peak	HORIZONTAL	6	979.63	26.67	-13.33	54.00	23.47	30.28	5.10	32.18	---	Peak	HORIZONTAL	Site : 032005-KS Condition : FCC PART 15C 3m GBL61110 SN2182 VERTICAL R08 100.00000u V08 300.00000u SRT Auto <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>30.97</td><td>20.59</td><td>-19.41</td><td>40.00</td><td>28.66</td><td>24.04</td><td>0.59</td><td>32.70</td><td>120</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>66.93</td><td>22.07</td><td>-17.93</td><td>43.50</td><td>30.94</td><td>16.47</td><td>1.59</td><td>32.78</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>557.48</td><td>24.07</td><td>-15.93</td><td>46.00</td><td>27.86</td><td>26.95</td><td>3.84</td><td>32.58</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>696.45</td><td>25.40</td><td>-14.60</td><td>46.00</td><td>29.08</td><td>24.83</td><td>4.28</td><td>32.79</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>855.47</td><td>26.56</td><td>-13.44</td><td>46.00</td><td>27.95</td><td>26.43</td><td>4.77</td><td>32.59</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>982.04</td><td>26.33</td><td>-13.67</td><td>54.00</td><td>26.17</td><td>27.23</td><td>5.10</td><td>32.17</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr></tbody></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg			1	30.97	20.59	-19.41	40.00	28.66	24.04	0.59	32.70	120	Peak	VERTICAL	2	66.93	22.07	-17.93	43.50	30.94	16.47	1.59	32.78	---	Peak	VERTICAL	3	557.48	24.07	-15.93	46.00	27.86	26.95	3.84	32.58	---	Peak	VERTICAL	4	696.45	25.40	-14.60	46.00	29.08	24.83	4.28	32.79	---	Peak	VERTICAL	5	855.47	26.56	-13.44	46.00	27.95	26.43	4.77	32.59	---	Peak	VERTICAL	6	982.04	26.33	-13.67	54.00	26.17	27.23	5.10	32.17	---	Peak	VERTICAL
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Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	62.50	0.391	2.578	2.7KHz
Bluetooth LE 2Mbps	32.87	0.206	4.854	5.1KHz

Bluetooth LE 1Mbps





Bluetooth LE 2Mbps

