



# **FCC TEST REPORT**

**FCC ID: 2AY59-GSPS4**

On Behalf of

**CLD Distribution S.A.**

**Wireless Game Controller**

**Model No.: GSPS4-BK, GSPS4-WH, GSPS4-BL, GSPS4-RD**

Prepared for : CLD Distribution S.A.  
Address : Rue du Grand Champ 14, 5380 Fernelmont, Belgium

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.  
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,  
Shenzhen, Guangdong, China

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### TEST REPORT DECLARATION

Applicant : CLD Distribution S.A.  
 Address : Rue du Grand Champ 14, 5380 Fernelmont, Belgium  
 Manufacturer : Shenzhen CHT Technology Co., Ltd.  
 Address : Building L, Shengguang Industrial Park, No. 152 Shajing DongHuan Road, XinQiao Street, Bao'An District, Shenzhen, China  
 EUT Description : Wireless Game Controller  
 (A) Model No. : GSPS4-BK, GSPS4-WH, GSPS4-BL, GSPS4-RD  
 (B) Trademark : DRAGON WAR

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**  
**ANSI C63.10:2013**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang  
 Project Engineer 

Approved by (name + signature).....: Simple Guan  
 Project Manager 

Date of issue..... : March 02, 2021

**Revision History**

Revision	Issue Date	Revisions	Revised By
V0	March 02, 2021	Initial released Issue	Reak Yang

## 1. Summary Of Standards And Results

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

<b>Test Item</b>	<b>Standards Paragraph</b>	<b>Result</b>
Conducted Emission	FCC PART 15: 15.207 ANSI C63.10 :2013	P
6dB Bandwidth	FCC PART 15: 15.247 (a)(2) ANSI C63.10 :2013	P
Output Power	FCC PART 15: 15.247 (b)(3) ANSI C63.10 :2013	P
Radiated Spurious Emission	FCC PART 15: 15.247 (c) ANSI C63.10 :2013	P
Conducted Spurious & Band Edge Emission	FCC PART 15: 15.247 (d) ANSI C63.10 :2013	P
Power Spectral Density	FCC PART 15: 15.247 (e) ANSI C63.10 :2013	P
Radiated Band Edge Emission	FCC PART 15: 15.205 ANSI C63.10 :2013	P
Antenna Requirement	FCC PART 15: 15.203 ANSI C63.10 :2013	P
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.	

## 2. General Information

### 2.1. Description of Device (EUT)

EUT Description	: Wireless Game Controller
Trademark	: DRAGON WAR
Model Number	: GSPS4-BK, GSPS4-WH, GSPS4-BL, GSPS4-RD
DIFF.	: All models are the same, except the appearance color, the data in this report is based on model: GSPS4-BK.
Test Voltage	: DC 3.7V From Battery, DC 5V From USB Port

#### BT

Radio Technology	: Bluetooth (LE)
Operation frequency	: 2402-2480MHz
Channel No.	: 40 Channels
Modulation type	: GFSK
Antenna Type	: Internal antenna, Maximum Gain is 1dBi.
Software version	: V1.0
Hardware version	: V1.0

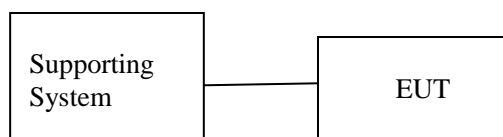
## 2.2. Accessories of Device (EUT)

Accessories1	:	N/A
Manufacturer	:	N/A
Model	:	N/A
Ratings	:	N/A

## 2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Notebook PC	DELL	Latitude 3490	--	SDOC

## 2.4. Block Diagram of connection between EUT and simulators



## 2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH0	2402
	Middle: CH19	2440
	High: CH39	2480

## 2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa



## 2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd  
 Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,  
 Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission  
 Registration Number: 293961  
 Designation Number: CN1236

July 15, 2019 Certificated by IC  
 Registration Number: CN0085

## 2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	$5.4 \times 10^{-8}$
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

## 2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2020.09.02	1 Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2020.09.02	1 Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2020.09.02	1 Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-10208 2-Wa	2020.09.02	1 Year
Receiver	R&S	ESCI	101165	2020.09.02	1 Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2 Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2 Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2019.09.07	2 Year
Cable	Resenberger	N/A	No.1	2020.09.02	1 Year
Cable	Resenberger	N/A	No.2	2020.09.02	1 Year
Cable	Resenberger	N/A	No.3	2020.09.02	1 Year
Pre-amplifier	HP	HP8347A	2834A00455	2020.09.02	1 Year
Pre-amplifier	Agilent	8449B	3008A02664	2020.09.02	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2020.09.02	1 Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2020.09.02	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2020.09.02	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2020.09.02	1 Year
Power Meter	Agilent	E9300A	MY41496625	2020.09.02	1 Year
Power Sensor	DARE	RPR3006W	15100041SNO91	2020.09.02	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-8 80	100631	2020.09.02	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2020.09.02	1 Year

### 3. Spurious Emission

#### 3.1. Test Limits

Frequencies (MHz)	Field Strength (micorvolts/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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

**NOTE:**

- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(uv/m)

#### 3.2. Test Procedure

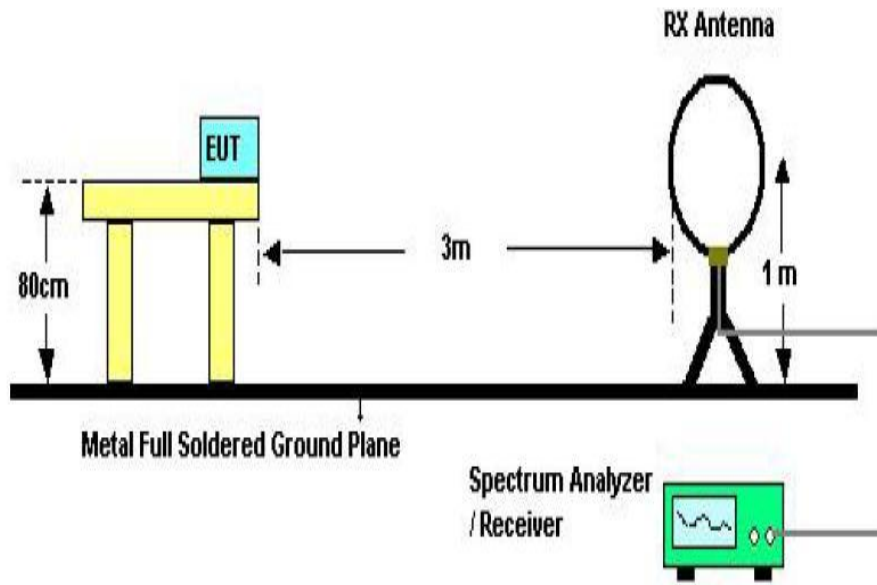
The measuring distance of 3m shall be used for measurements at frequency up to 1GH and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation

The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

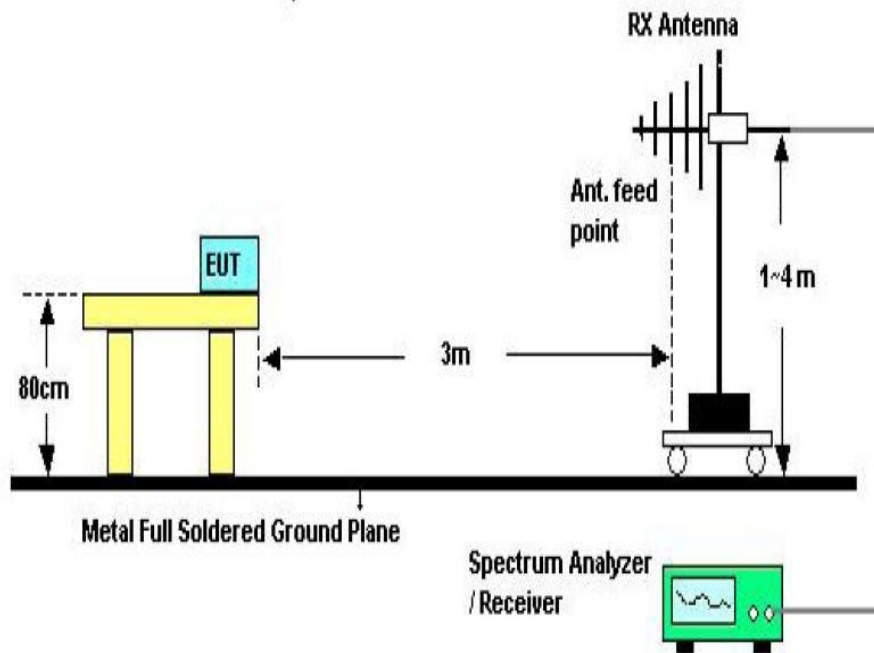
The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured

If Peak value comply with QP limit Below 1GHz.The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz. For the actual test configuration, please see the test setup photo.

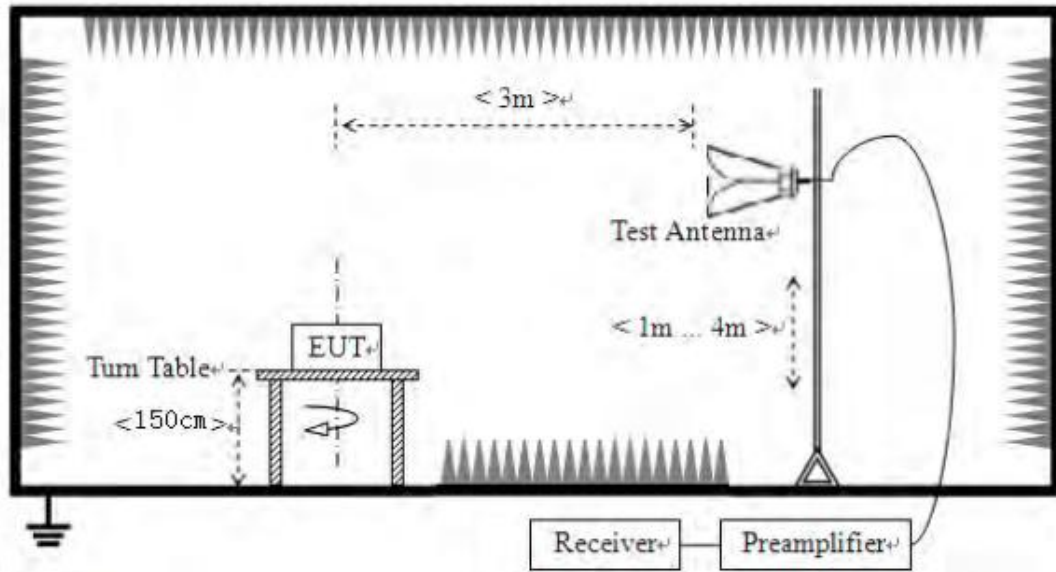
### 3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

### 3.4. Test Results

#### Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the 10th harmonic from 9 kHz to the EUT.

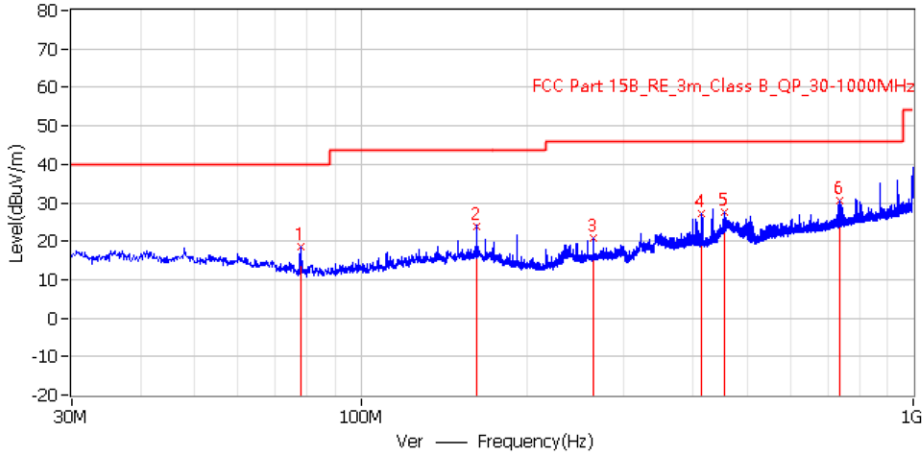
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

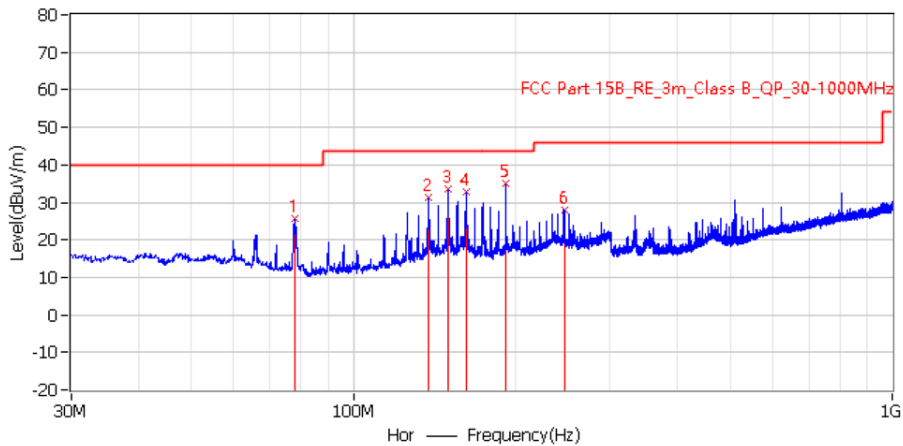
2. Only show the test data of the worst Channel in this report.

From 30MHz to 1000MHz: Conclusion: PASS			
<b>EUT Description</b>	Wireless Game Controller	<b>Model No.</b>	GSPS4-BK
<b>Temperature</b>	24°C	<b>Humidity</b>	56%
<b>Pol</b>	Vertical	<b>Test date</b>	2021/03/02
<b>Test Voltage</b>	DC 5V From USB Port	<b>Test mode</b>	GFSK (2480MHz)



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Factor dB/m	Detector
1*	77.772 MHz	40.0	18.5	-21.5	12.5	PK
2*	161.799 MHz	43.5	24.0	-19.5	16.6	PK
3*	264.012 MHz	46.0	20.9	-25.1	15.4	PK
4*	414.363 MHz	46.0	27.3	-18.7	17.5	PK
5*	455.709 MHz	46.0	27.6	-18.4	18.5	PK
6*	738.100 MHz	46.0	30.6	-15.4	24.2	PK

<b>Pol</b>	Horizontal
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No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Factor dB/m	Detector
1*	77.772 MHz	40.0	25.6	-14.4	12.5	PK
2*	137.791 MHz	43.5	31.4	-12.1	15.7	PK
3*	150.159 MHz	43.5	33.6	-9.9	16.6	PK
4*	161.799 MHz	43.5	32.8	-10.7	16.6	PK
5*	191.990 MHz	43.5	35.1	-8.4	13.6	PK
6*	246.189 MHz	46.0	28.1	-17.9	14.7	PK

\*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK (2480MHz) was listed in this report.

From 1G-25GHz

Test Mode: TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	43.86	V	33.95	10.18	34.26	53.73	74	-20.27	PK
4804	34.87	V	33.95	10.18	34.26	44.74	54	-9.26	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	42.50	H	33.95	10.18	34.26	52.37	74	-21.63	PK
4804	35.68	H	33.95	10.18	34.26	45.55	54	-8.45	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	45.56	V	33.93	10.2	34.29	55.40	74	-18.60	PK
4880	35.55	V	33.93	10.2	34.29	45.39	54	-8.61	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	44.34	H	33.93	10.2	34.29	54.18	74	-19.82	PK
4880	33.21	H	33.93	10.2	34.29	43.05	54	-10.95	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	43.68	V	33.98	10.22	34.25	53.63	74	-20.37	PK
4960	35.47	V	33.98	10.22	34.25	45.42	54	-8.58	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	46.45	H	33.98	10.22	34.25	56.40	74	-17.60	PK
4960	36.19	H	33.98	10.22	34.25	46.14	54	-7.86	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

## 4. Power Line Conducted Emission

### 4.1. Test Limits

Frequency MHz	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

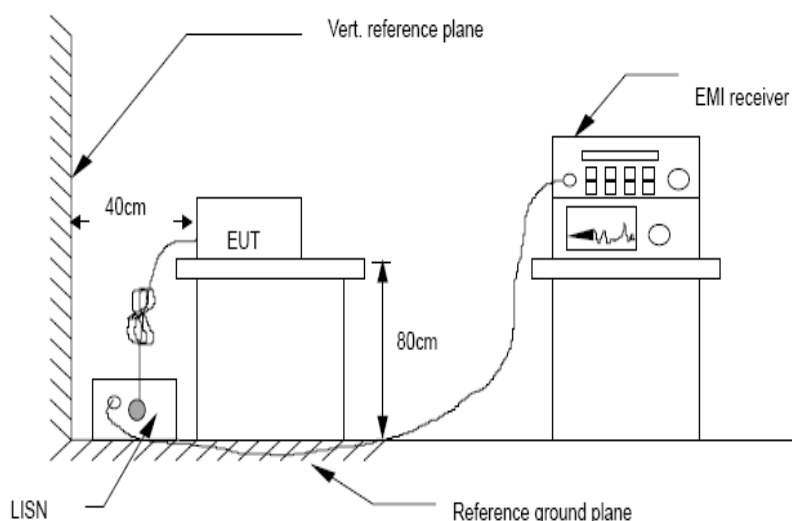
Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The lower limit shall apply at the transition frequencies.  
 3. The limit decreases in line with the logarithm of the frequency in rang of 0.15 to 0.50 MHz.

### 4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

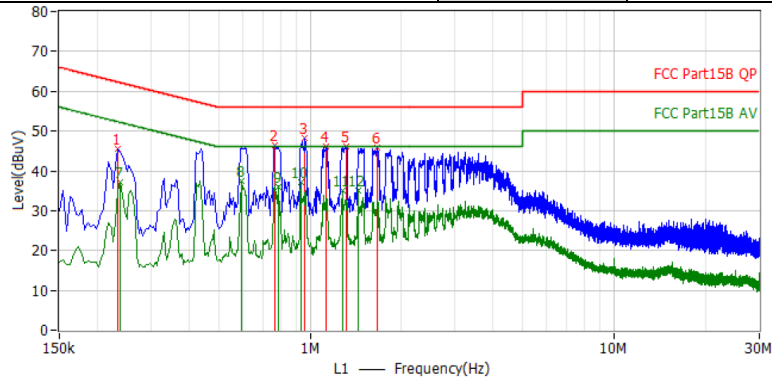
### 4.3. Test Setup



### 4.4. Test Results

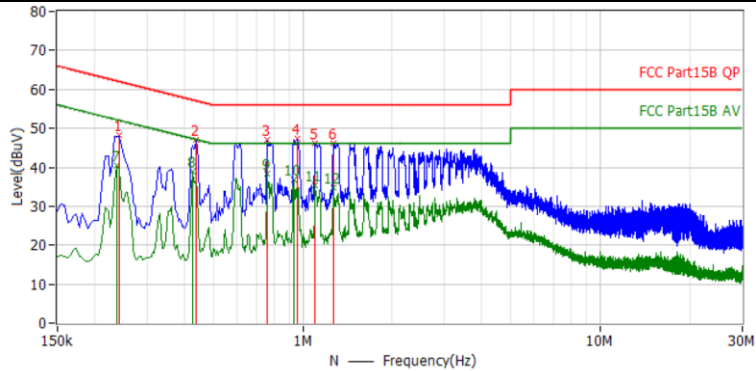


<b>EUT Description</b>	Wireless Game Controller	<b>Model No.</b>	GSPS4-BK
<b>Temperature</b>	24°C	<b>Humidity</b>	56%
<b>Pol</b>	Line	<b>Test date</b>	2021/02/03
<b>Test Voltage</b>	AC 120V/60Hz	<b>Test mode</b>	GFSK (2480MHz)



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector
1*	234.000 kHz	62.3	45.5	-16.8	9.7	PK
2*	766.000 kHz	56.0	46.4	-9.6	9.8	PK
3*	962.000 kHz	56.0	48.2	-7.8	9.8	PK
4*	1.134 MHz	56.0	46.1	-9.9	9.9	PK
5*	1.310 MHz	56.0	46.1	-9.9	9.9	PK
6*	1.666 MHz	56.0	45.7	-10.3	9.9	PK
7*	238.000 kHz	52.2	37.2	-15.0	9.7	AV
8*	598.000 kHz	46.0	37.5	-8.5	9.8	AV
9*	790.000 kHz	46.0	36.1	-9.9	9.8	AV
10*	934.000 kHz	46.0	37.2	-8.8	9.8	AV
11*	1.282 MHz	46.0	35.2	-10.8	9.9	AV
12*	1.442 MHz	46.0	35.2	-10.8	9.9	AV

<b>Pol</b>	Neutral
------------	---------



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector
1*	242.000 kHz	62.0	48.1	-14.0	9.7	PK
2*	438.000 kHz	57.1	47.0	-10.1	9.7	PK
3*	762.000 kHz	56.0	47.0	-9.0	9.7	PK
4*	962.000 kHz	56.0	47.3	-8.7	9.7	PK
5*	1.102 MHz	56.0	46.1	-9.9	9.8	PK
6*	1.274 MHz	56.0	46.1	-9.9	9.8	PK
7*	238.000 kHz	52.2	40.5	-11.7	9.7	AV
8*	426.000 kHz	47.3	38.9	-8.5	9.7	AV
9*	762.000 kHz	46.0	38.3	-7.7	9.7	AV
10*	934.000 kHz	46.0	36.9	-9.1	9.7	AV
11*	1.098 MHz	46.0	35.5	-10.5	9.8	AV
12*	1.270 MHz	46.0	34.9	-11.1	9.8	AV

\*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK (2480MHz) was listed in this report.

## 5. Conducted Maximum Output Power

### 5.1. Test limits

Please refer section RSS-247 & 15.247.

### 5.2. Test Procedure

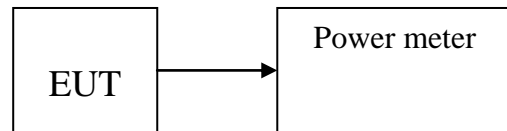
Details see the KDB558074 D01 Meas Guidance v05r02

5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Measure out each mode and each bands average output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

### 5.3. Test Setup



### 5.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Total	1.683	30	Pass
NVNT	BLE	2440	Total	3.83	30	Pass
NVNT	BLE	2480	Total	4.531	30	Pass

## 6. Power Spectral Density

### 6.1. Test limits

6.1.1 Please refer section RSS-247 & 15.247.

6.1.2 For direct sequence systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

### 6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

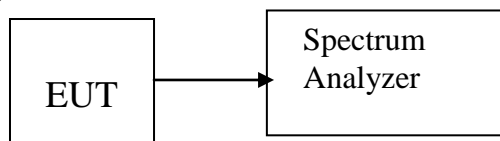
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Detector = RMS. Set the spectrum analyzer as RBW = 3kHz(Set the RBW to:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .), VBW = 10kHz(Set the VBW  $\geq 3 \times \text{RBW}$ ), span= $1.5 \times \text{DTS}$  bandwidth., detail see the test plot.

6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

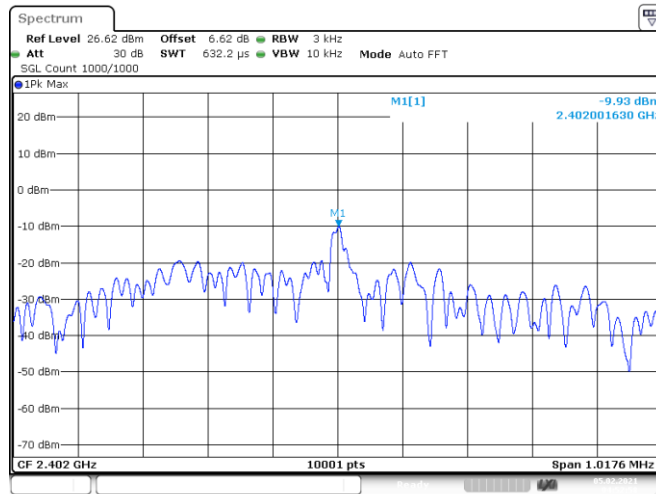
### 6.3. Test Setup



### 6.4. Test Results

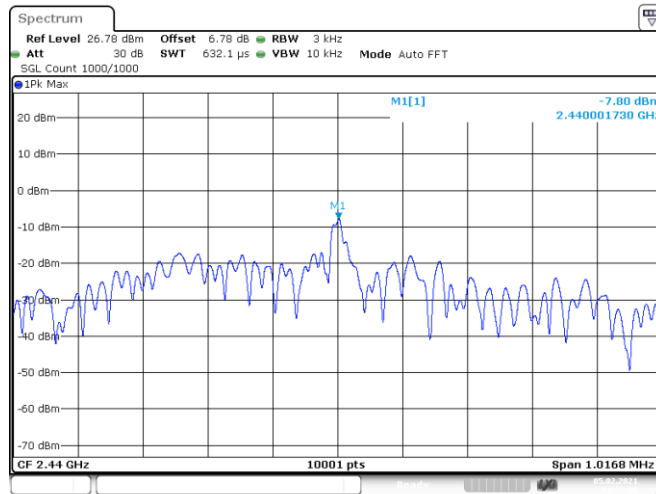
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Total	-9.927	8	Pass
NVNT	BLE	2440	Total	-7.8	8	Pass
NVNT	BLE	2480	Total	-6.946	8	Pass

### PSD NVNT BLE 2402MHz Ant1



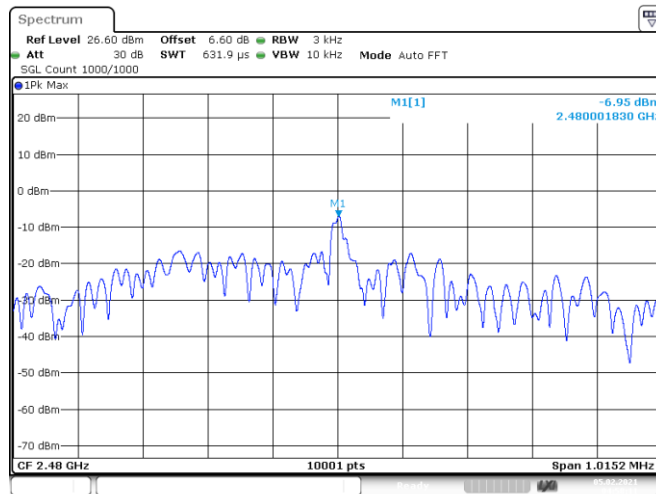
Date: 5.FEB.2021 04:52:58

### PSD NVNT BLE 2440MHz Ant1



Date: 5.FEB.2021 04:55:36

### PSD NVNT BLE 2480MHz Ant1



Date: 5.FEB.2021 04:59:11

## 7. Bandwidth

### 7.1. Test limits

Please refer section RSS-247 & 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

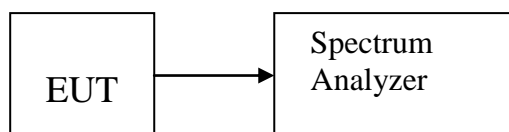
### 7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set  $RBW = 100\text{kHz}$ ,  $VBW \geq 3 * RBW = 300\text{kHz}$ , Sweep time set auto, detail see the test plot.

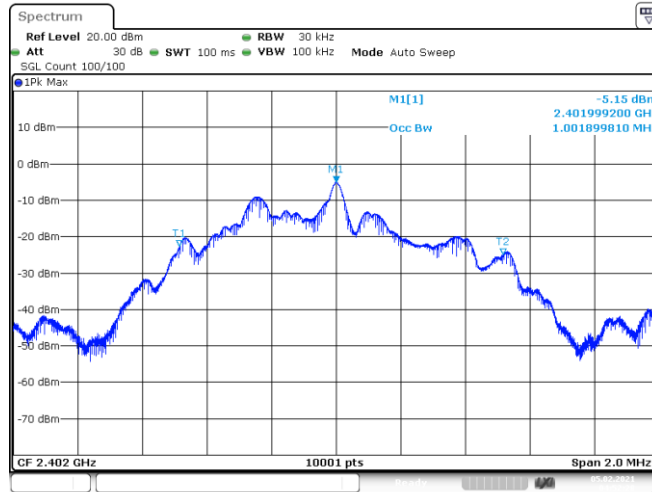
### 7.3. Test Setup



### 7.4. Test Results

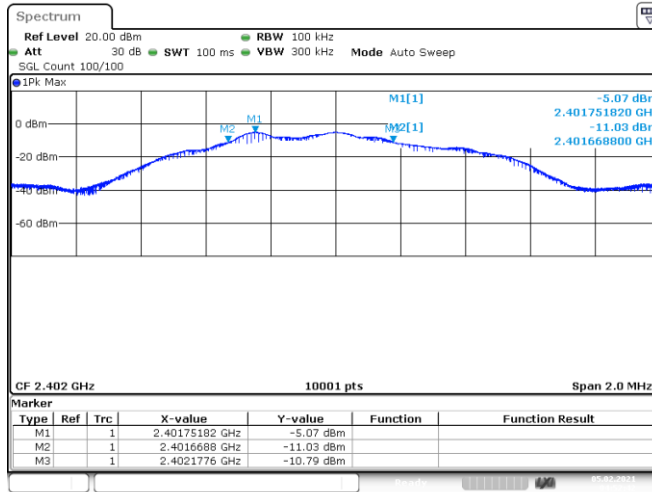
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	1.0019	0.5088	0.5	Pass
NVNT	BLE	2440	1.0005	0.5084	0.5	Pass
NVNT	BLE	2480	1.0029	0.5076	0.5	Pass

OBW NVNT BLE 2402MHz Ant1



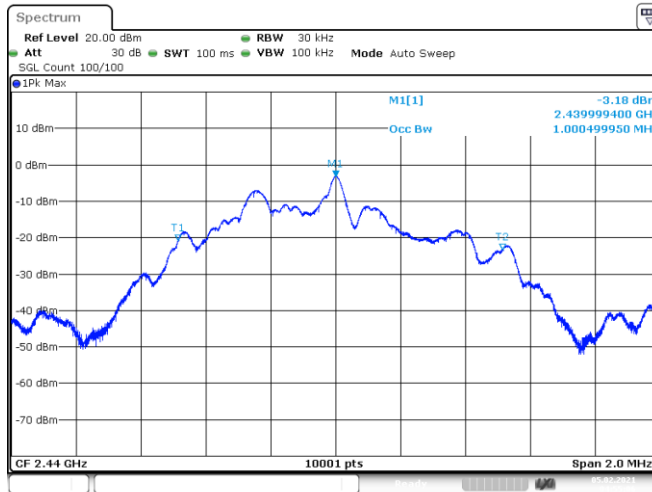
Date: 5.FEB.2021 04:52:28

-6 dB BW NVNT BLE 2402MHz Ant1



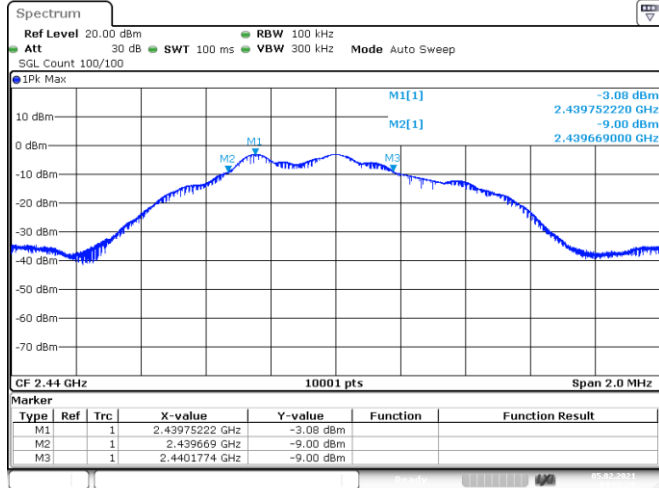
Date: 5.FEB.2021 04:52:41

OBW NVNT BLE 2440MHz Ant1



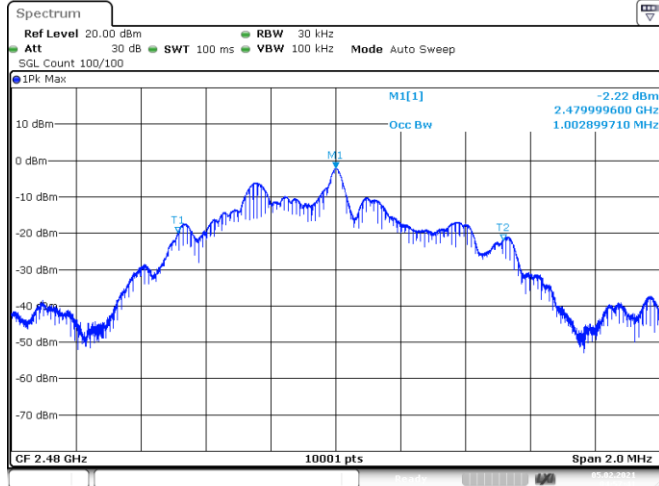
Date: 5.FEB.2021 04:55:06

-6 dB BW NVNT BLE 2440MHz Ant1



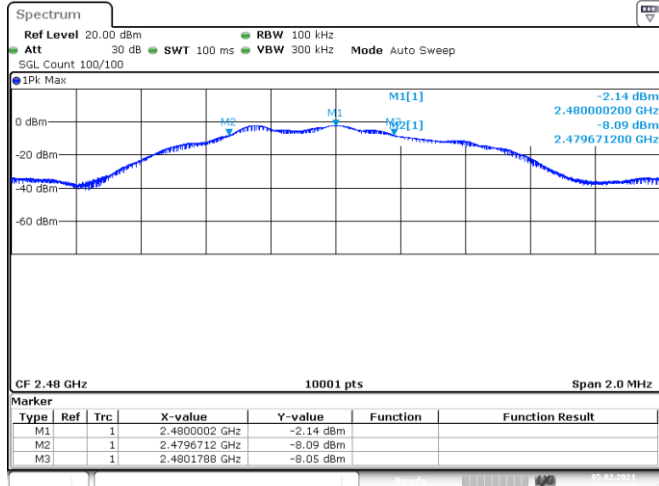
Date: 5.FEB.2021 04:55:20

OBW NVNT BLE 2480MHz Ant1



Date: 5.FEB.2021 04:57:42

-6 dB BW NVNT BLE 2480MHz Ant1



Date: 5.FEB.2021 04:57:55

## **8. Band Edge Check**

### **8.1. Test limits**

Please refer section RSS-GEN&15.247.

### **8.2. Test Procedure**

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

### **8.3. Test Setup**

Same as 5.2.2.

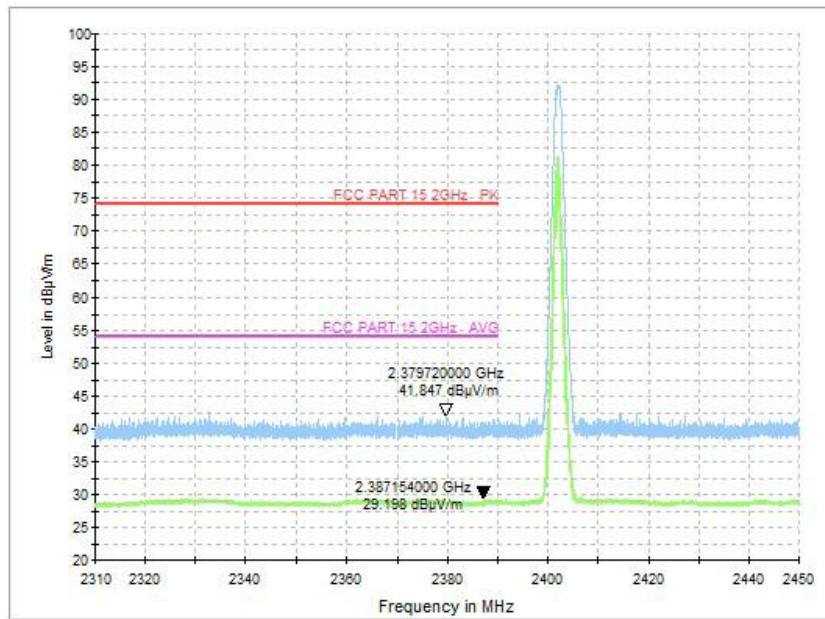
### **8.4. Test Results**



**Radiated Method:**

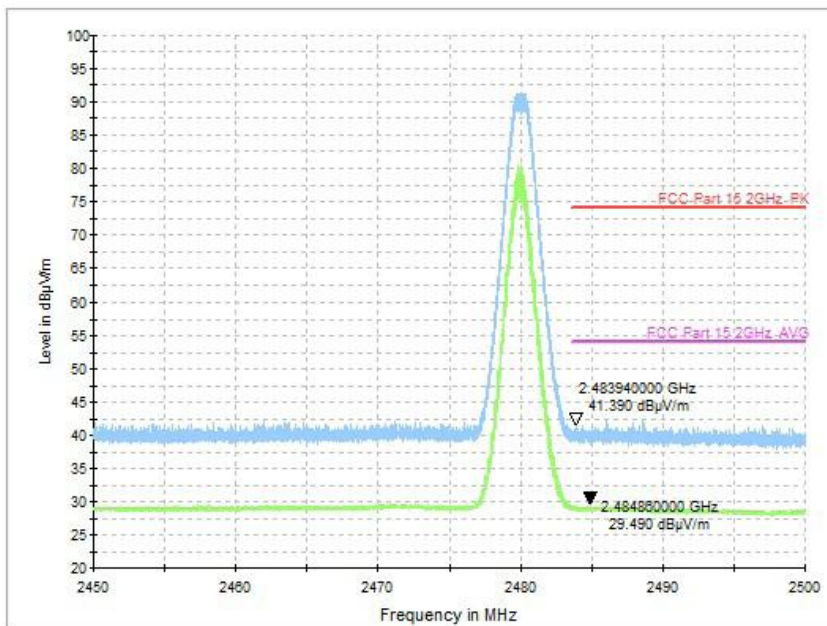
*Test Mode: Low*

*Polarization: Vertical & Horizontal*



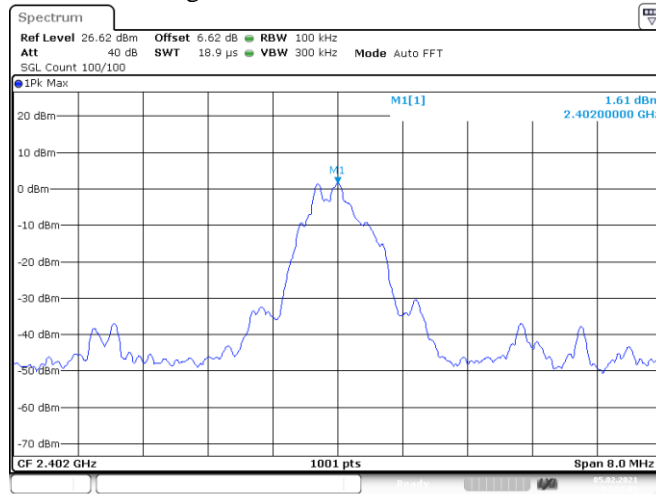
*Test Mode: High*

*Polarization: Vertical & Horizontal*



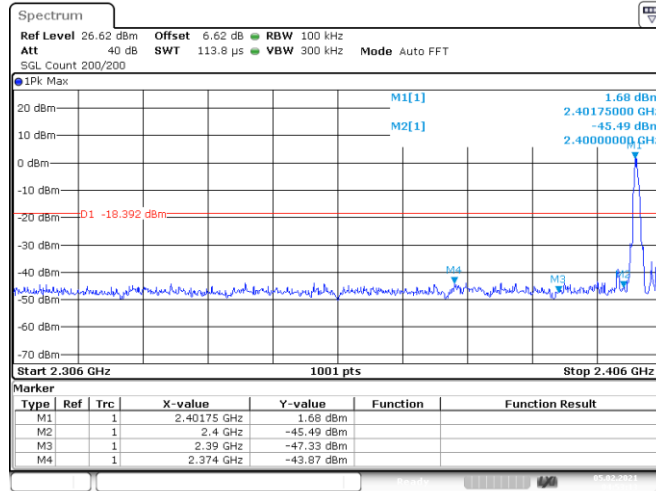
Conducted Method:

### Band Edge NVNT BLE 2402MHz Ant1 Ref



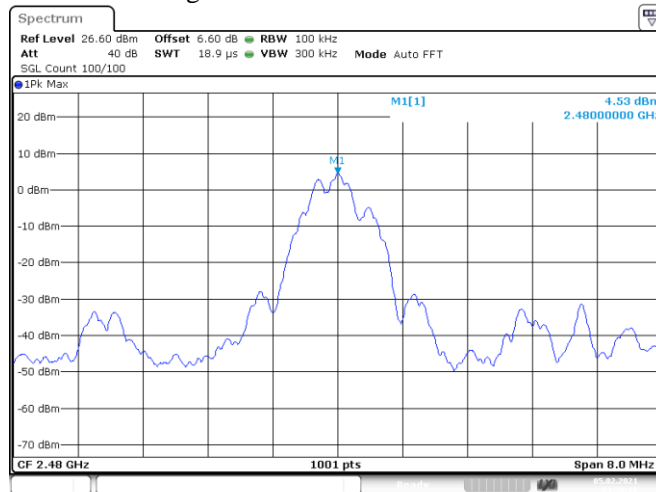
Date: 5.FEB.2021 04:53:05

### Band Edge NVNT BLE 2402MHz Ant1 Emission



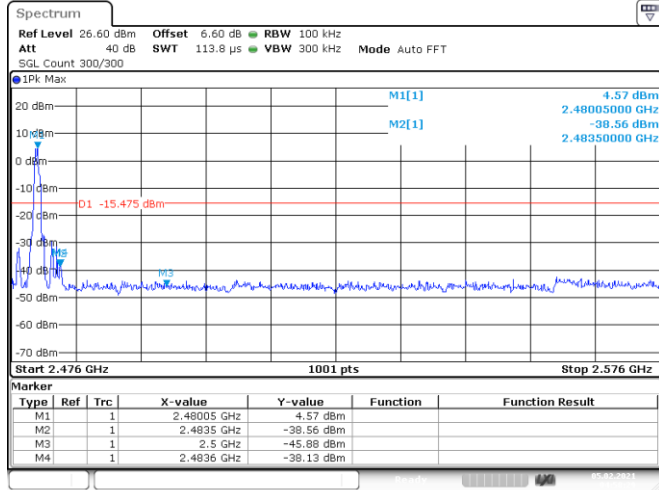
Date: 5.FEB.2021 04:53:13

### Band Edge NVNT BLE 2480MHz Ant1 Ref



Date: 5.FEB.2021 04:59:18

### Band Edge NVNT BLE 2480MHz Ant1 Emission



Date: 5.FEB.2021 04:58:29

## **9. Antenna Requirement**

### **9.1. Standard Requirement**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **9.2. Antenna Connected Construction**

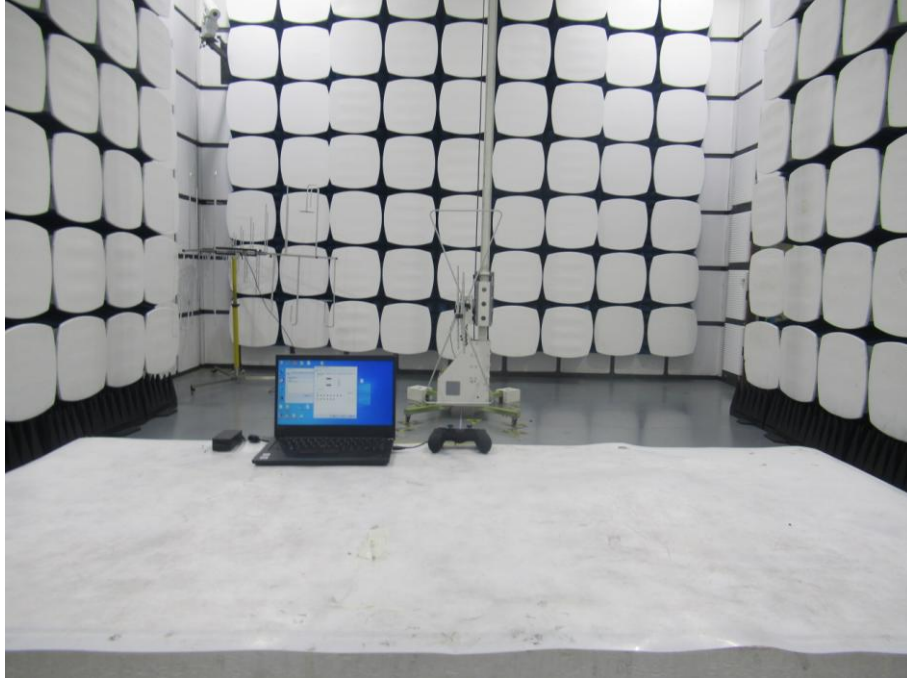
The antenna is PCB antenna and no consideration of replacement. Please see EUT photo for details.

### **9.3. Results**

The EUT antenna is internal antenna. It complies with the standard requirement.

## 10. Test Setup Photo

### 10.1. Photos of Radiated Emission Test (In Semi Anechoic Chamber 30MHz~1GHz)



### 10.2. Photos of Radiated Emission Test (In Full Anechoic Chamber above 1GHz)



10.3.Photos of Conducted disturbance at mains terminals test



## **11. Photographs Of The EUT**

Please refer to report A2101045-C01-R01.

**----- END OF REPORT-----**