



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 41)

성적서 번호 Report No.		ICRT-TR-E223287-0A	
신청자 Client	기관명 Name	Ltech Inc.	
	주 소 Address	RM.528.5FL, 229, Yangji-ro, Bucheon-si, Gyeonggi-do, S. Korea	
시험대상품목 Sample description		BLE Module	
모델명 Type designation		PLE-52	
정 격 Ratings		DC 3.3 V	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		11. Oct. 2022 ~ 14. Dec. 2022	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247	
시험결과 Test Results		Refer to 3. Test Summary	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name Eun-Hye, Gwak (Signature)	성 명 Name Tae-Yang, Yoon (Signature)	
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Contents

1. Applicant & Manufacturer & Test Laboratory Information.....	4
1.1 Applicant information.....	4
1.2 Manufacturer Information.....	4
1.3 Test Laboratory Information.....	4
2. Equipment under Test(EUT) Information.....	5
2.1 General Information	5
2.2 Additional Information	5
2.3 Mode of operation during the test.....	5
2.4 Modifications of EUT	5
3. Test Summary.....	6
3.1 Test standards and results	6
3.2 Purpose of the test.....	6
3.3 Test Methodology	6
3.4 Configuration of Test System	6
3.5 Antenna requirement.....	7
4. Used equipment on test	8
5. 6 dB Bandwidth.....	9
5.1 Operating environment	9
5.2 Measurement method.....	9
5.3 Test data	9
6. Maximum Conducted Output Power.....	14
6.1 Operating environment	14
6.2 Measurement method.....	14
6.3 Test data	14
7. Power Spectral Density	15
7.1 Operating environment	15
7.2 Measurement method.....	15
7.3 Test data	15
8. Conducted Spurious Emission	20
8.1 Operating environment	20
8.2 Measurement method.....	20
8.3 Test data	20
9. Radiated Spurious Emission	30
9.1 Operating environment	30
9.2 Measurement method.....	30
9.3 Test setup.....	30
9.4 Test data	32



Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E223287-0A	2022.12.14	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Ltech Inc.
Address	RM.528.5FL, 229, Yangji-ro, Bucheon-si, Gyonggi-do, S. Korea
Contact Person	Seungmun Lee
Telephone No.	+82-2-2619-9662
Fax No.	-
E-mail	Lee@L-tech.com

1.2 Manufacturer Information

Manufacturer	Ltech Inc.
Address	RM.528.5FL, 229, Yangji-ro, Bucheon-si, Gyonggi-do, S. Korea

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	BLE Module
Brand Name	-
Model Name	PLE-52
Additional Model Name	-
FCC ID	2A88K-PLE52
Power Supply	DC 3.3 V

2.2 Additional Information

Equipment Class	DTS-Digital Transmission System		
Device Type	Stand-alone		
Operating Frequency	Bluetooth LE (1/2 Mbps)	2 402 MHz ~ 2 480 MHz	
RF Output Power	Bluetooth LE (1/2 Mbps)	1 Mbps	-5.61 dBm
		2 Mbps	-5.62 dBm
Number of Channel	Bluetooth LE (1/2 Mbps)	40	
Modulation Type	GFSK		
Antenna Type	Chip Antenna		
Antenna Gain	0.5dBi		
Antenna Operating Mode	Single Antenna Equipment with only one antenna		
List of Each Oscillator or Crystal Frequency	32 MHz		

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.4 Modifications of EUT

- None



3. Test Summary

3.1 Test standards and results

FCC Part 15 Subpart C			
Clause	Test items	Applied	Results
§15.247 (a) (2)	6 dB Bandwidth	☒	PASS
§15.247 (b) (3)	Maximum Conducted Output Power	☒	PASS
§15.247 (e)	Power Spectral Density	☒	PASS
§15.247 (d)	Conducted Spurious Emission	☒	PASS
§15.247 (d) & §15.209 & §15.205	Radiated Spurious Emission	☒	PASS
§15.203	Antenna Requirement	☒	PASS

3.2 Purpose of the test

- To determine whether the equipment under test fulfills the requirements of the standards stated in FCC Part 15 Subpart C Section 15.247.

3.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

3.4 Configuration of Test System

3.4.1 Radiated emission test

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.



3.5 Antenna requirement

According to §15.203, 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.

And according to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.1 Result: Pass

The transmitter has a **Chip Antenna**. The directional gain of the antenna is **0.5 dBi**.

**4. Used equipment on test**

	Description	Model Name	Manufacturer	Serial Number	Next Cal. (cycle)
☒	Spectrum analyzer	FSW85	R&S	101306	2023-03-02
☒	Signal Generator	SMB100A	R&S	180607	2023-03-03
☒	DC Power Supply	XDL 35-5P	Sorensen	J00385373	2023-03-03
☒	10 dB Attenuator	WA54-10-11	Weinschel	-	2023-03-07
☒	Loop Antenna	HFH2-Z2	Rohde & Schwarz	100506	2023-07-05
☒	TRILOG BROADBAND ANTENNA	VULB9162	SCHWARZBECK	120	2022-12-15
☒	RF Pre Amplifier	SCU08	Rohde & Schwarz	100747	2023-04-13
☒	EMI Test Receiver	ESR7	Rohde & Schwarz	102034	2023-04-13
☒	Horn Antenna	HF907	Rohde & Schwarz	102556	2023-08-22
☒	RF Pre Amplifier	SCU18	Rohde & Schwarz	102342	2023-04-13
☒	EMI Test Receiver	ESR26	Rohde & Schwarz	101462	2023-04-13
☒	Horn Antenna	LB-42-10-C-KF	AIBFO Inc.	J202024625	2023-03-10
☒	PreAmplifier	AMF-4F-18265-35-8P-1	MITEQ	771846	2023-03-07

※ All test equipment used is calibration on a regular basis.



5. 6 dB Bandwidth

5.1 Operating environment

Temperature : 23.9 °C

Relative humidity : 47.2 %

5.2 Measurement method

Standard : §15.247 (a) (2)

5.3 Test data

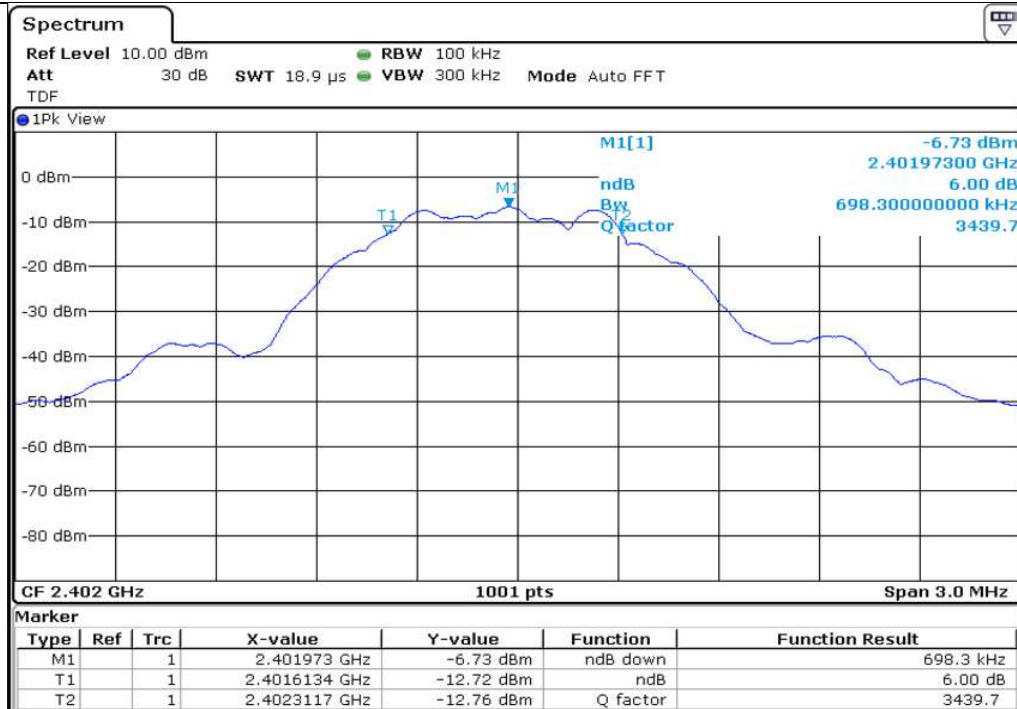
Operating mode : Transmit mode

Test Result : Pass

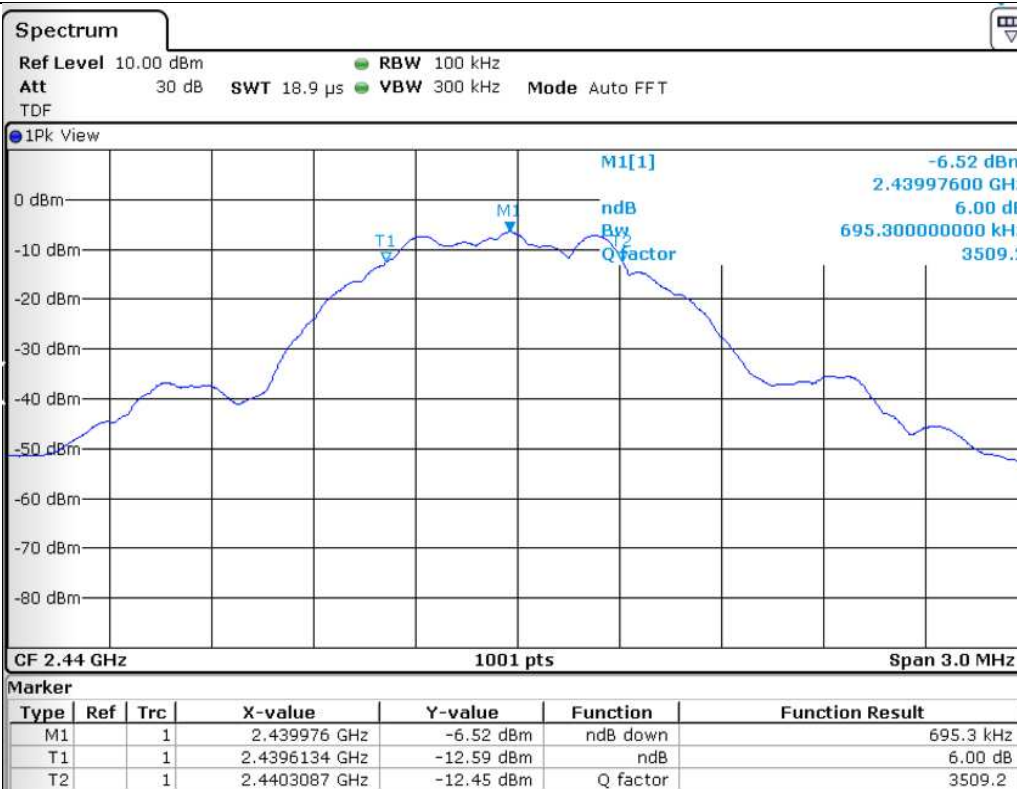
5.3.1 Measured Results

Modulation Type	Channel (Frequency)	Measured Value (KHz)	Limit (KHz)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	698.3	at least 500
	19 (2 440 MHz)	695.3	
	39 (2 480 MHz)	695.3	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	1 330.7	
	19 (2 440 MHz)	1 336.7	
	39 (2 480 MHz)	1 348.7	

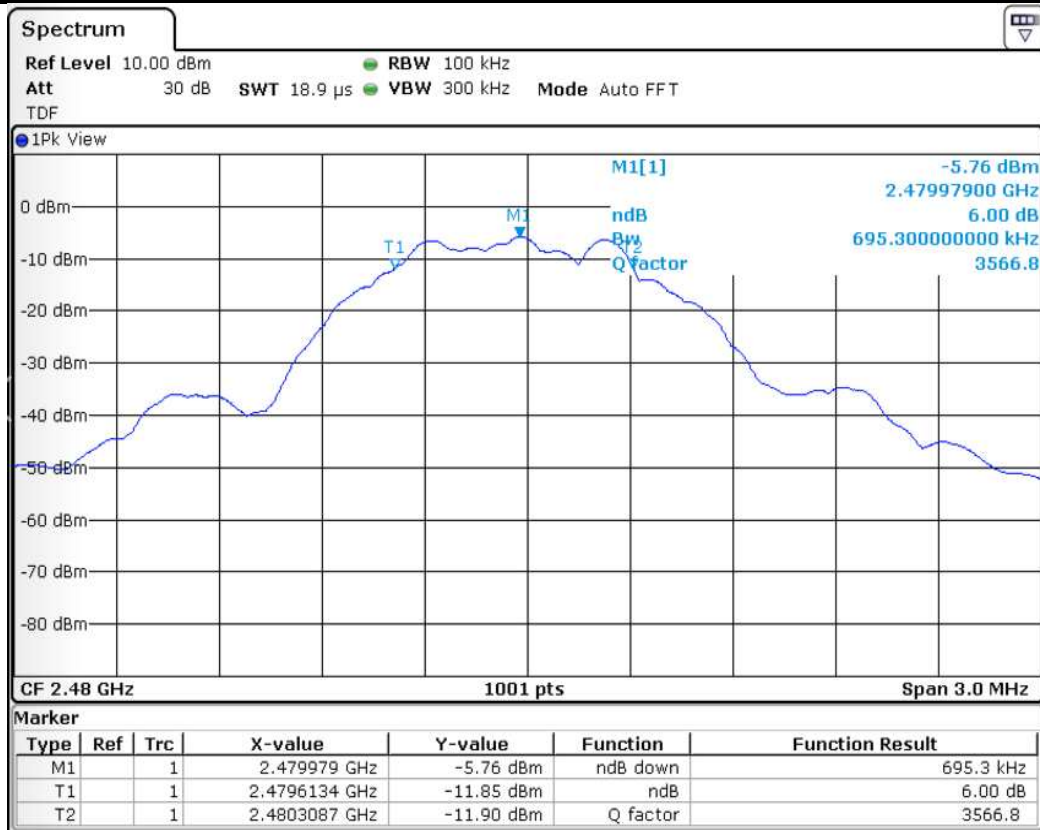
5.3.2 Measured Graph (6 dB Bandwidth)_ Bluetooth LE (1 Mbps)



Low CH

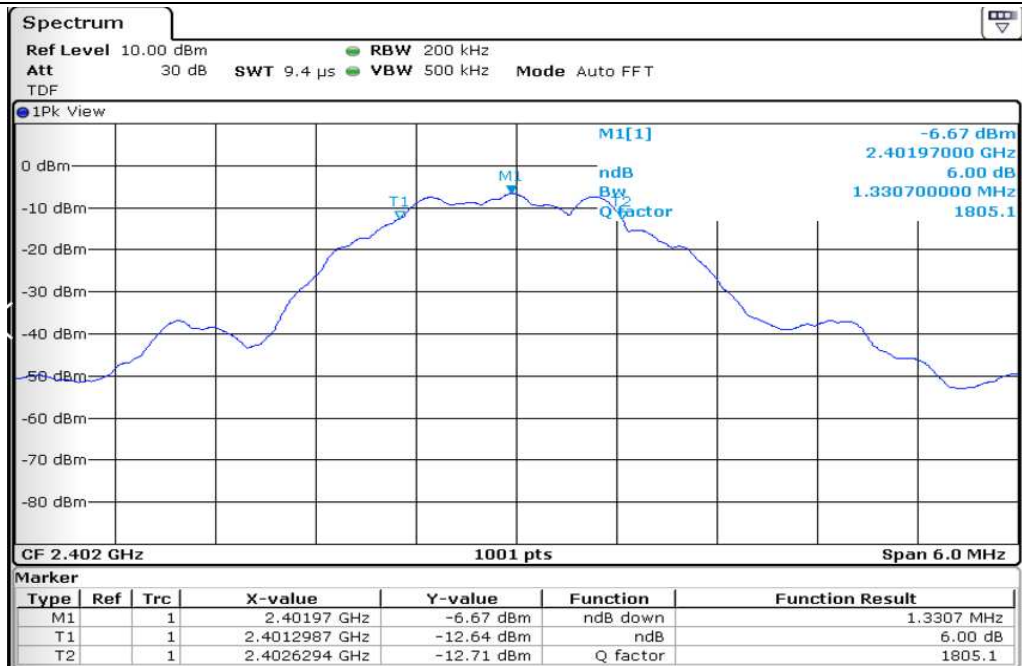


Mid CH

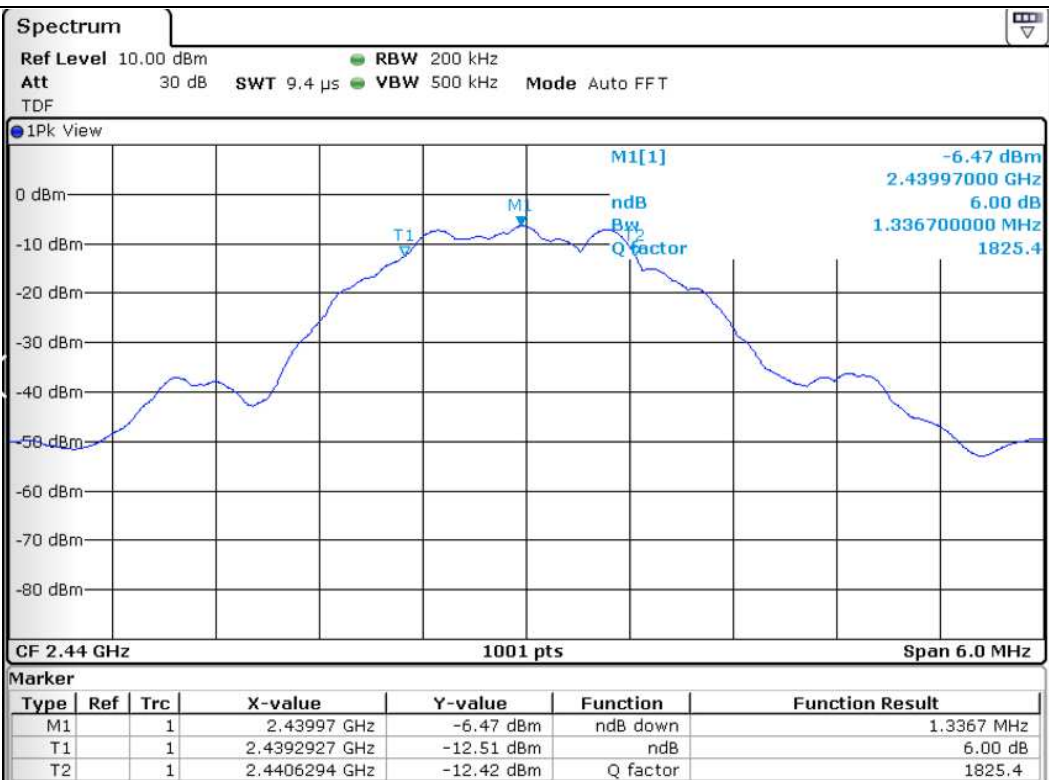


High CH

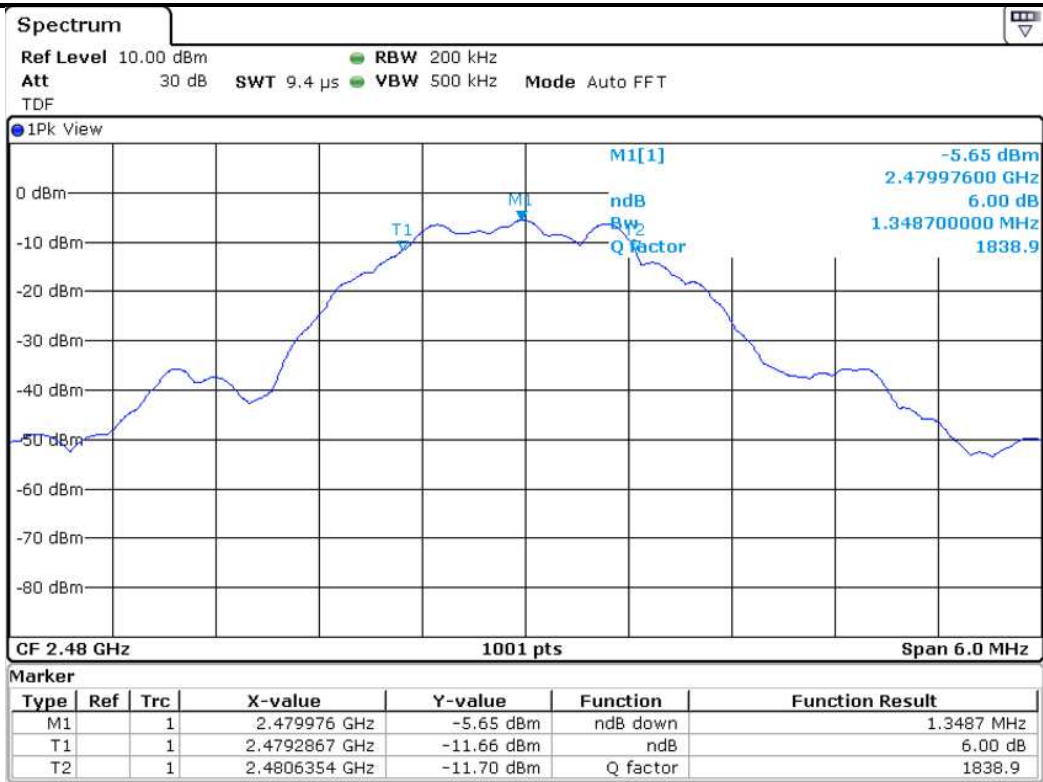
5.3.3 Measured Graph (6 dB Bandwidth)_ Bluetooth LE (2 Mbps)



Low CH



Mid CH



High CH



6. Maximum Conducted Output Power

6.1 Operating environment

Temperature : 23.9 °C

Relative humidity : 47.2 %

6.2 Measurement method

Standard : §15.247 (b) (3)

6.3 Test data

Operating mode : Transmit mode

Test Result : Pass

6.3.1 Measured Results

Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	-6.77	30 (1 Watt)
	19 (2 440 MHz)	-6.13	
	39 (2 480 MHz)	-5.61	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	-6.76	
	19 (2 440 MHz)	-6.12	
	39 (2 480 MHz)	-5.62	



7. Power Spectral Density

7.1 Operating environment

Temperature : 23.9 °C

Relative humidity : 47.2 %

7.2 Measurement method

Standard : §15.247 (e)

7.3 Test data

Operating mode : Transmit mode

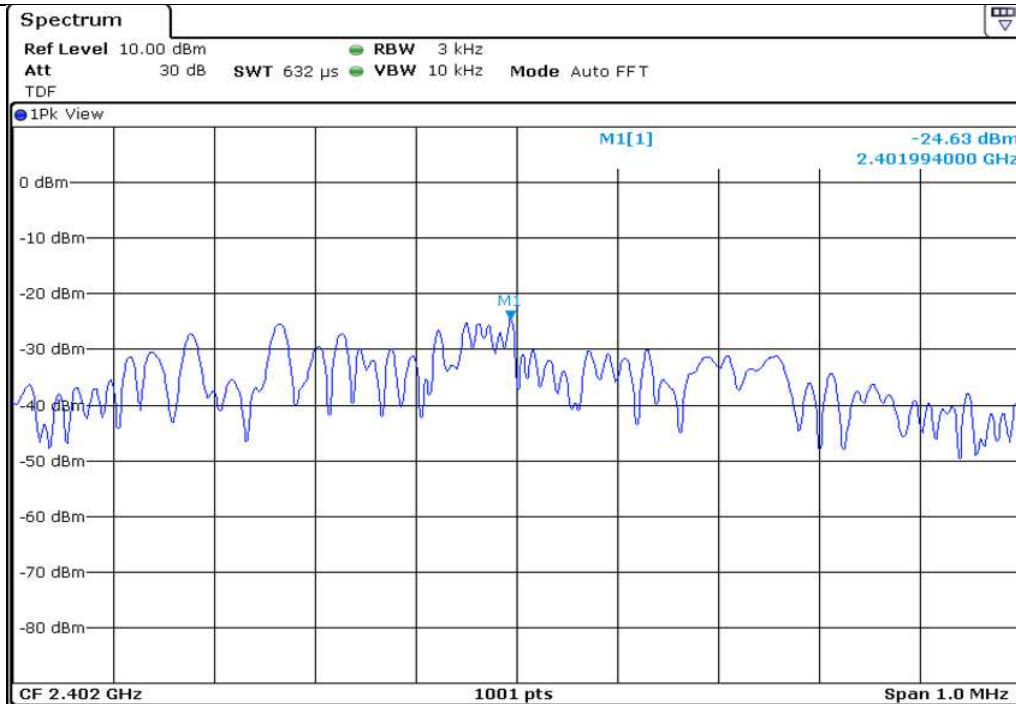
Test Result : Pass

7.3.1 Measured Results

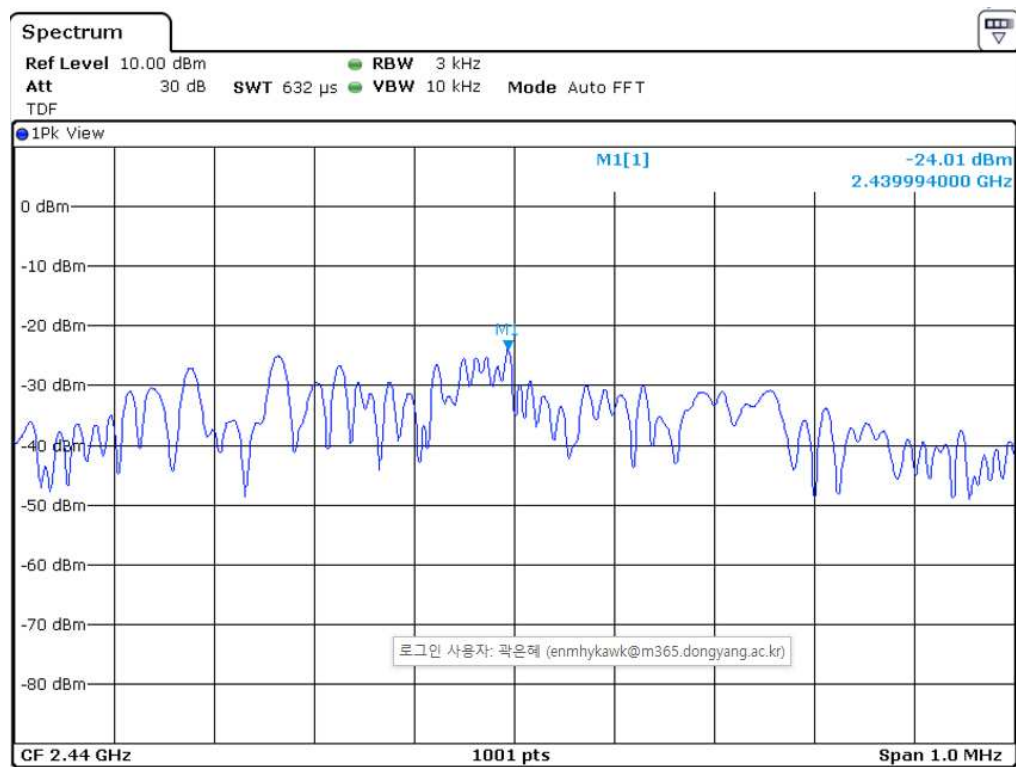
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm /3KHz)
Bluetooth LE (1 Mbps)	0 (2 402 MHz)	-24.63	8
	19 (2 440 MHz)	-24.01	
	39 (2 480 MHz)	-22.98	
Bluetooth LE (2 Mbps)	0 (2 402 MHz)	-26.38	
	19 (2 440 MHz)	-26.28	
	39 (2 480 MHz)	-25.56	



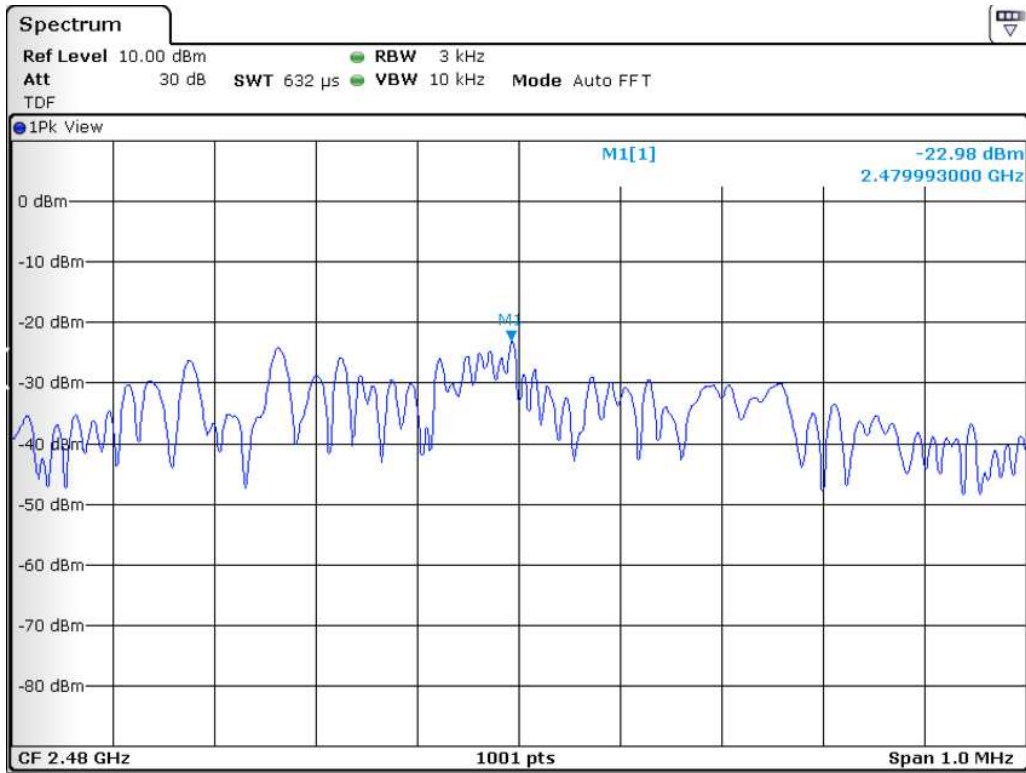
7.3.2 Measured Graph_Bluetooth LE (1 Mbps)



Low CH



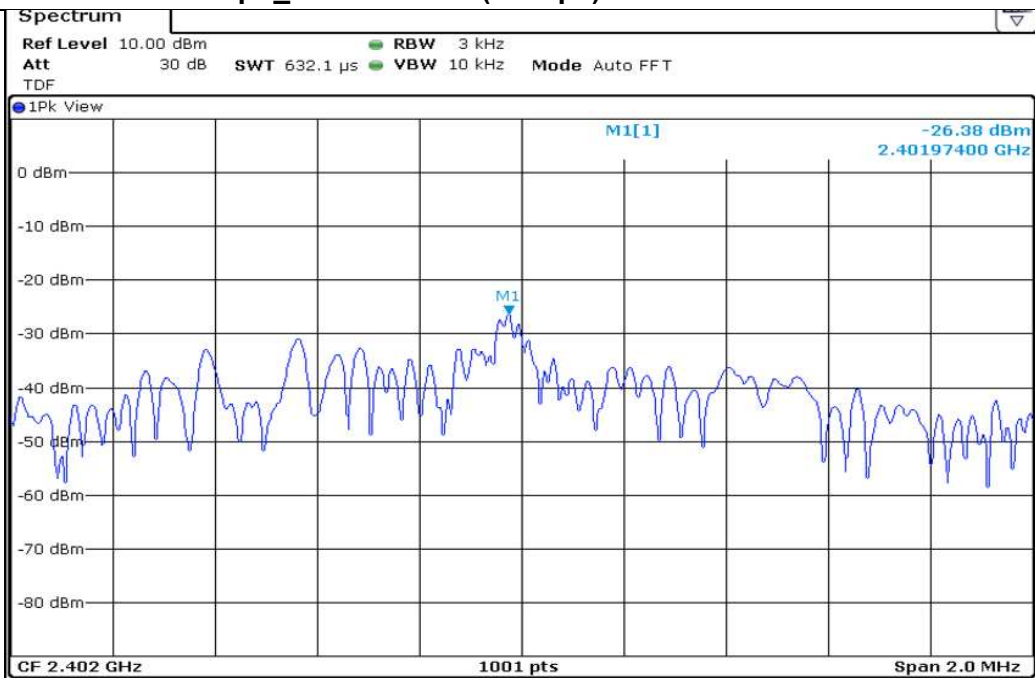
Mid CH



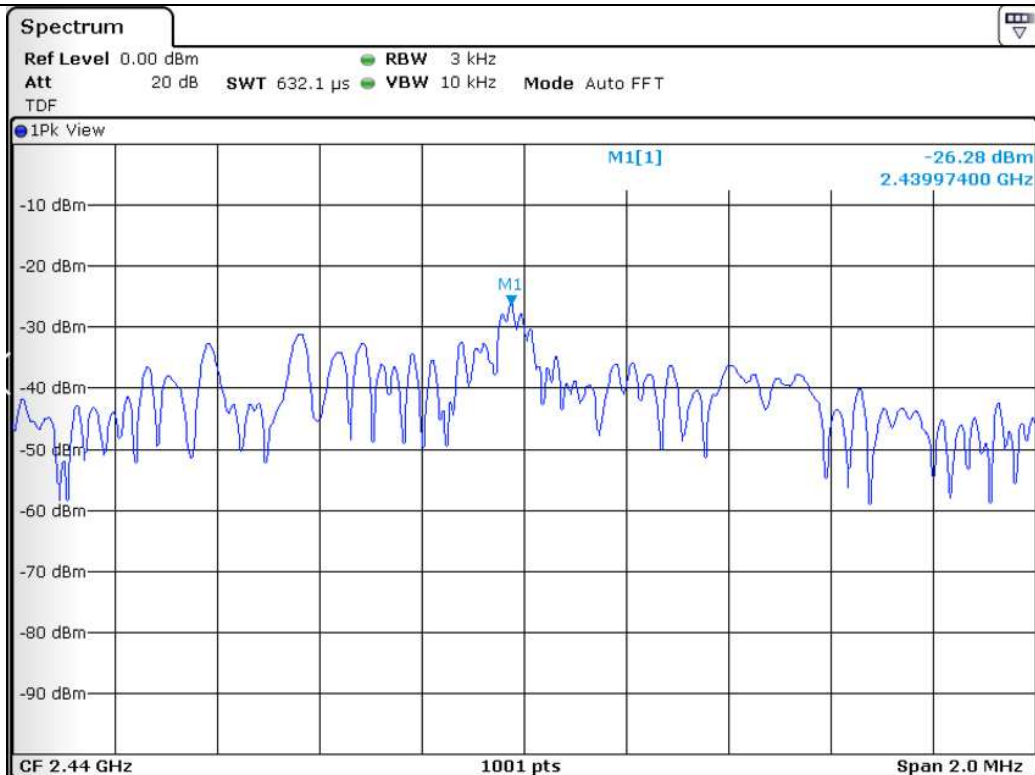
High CH



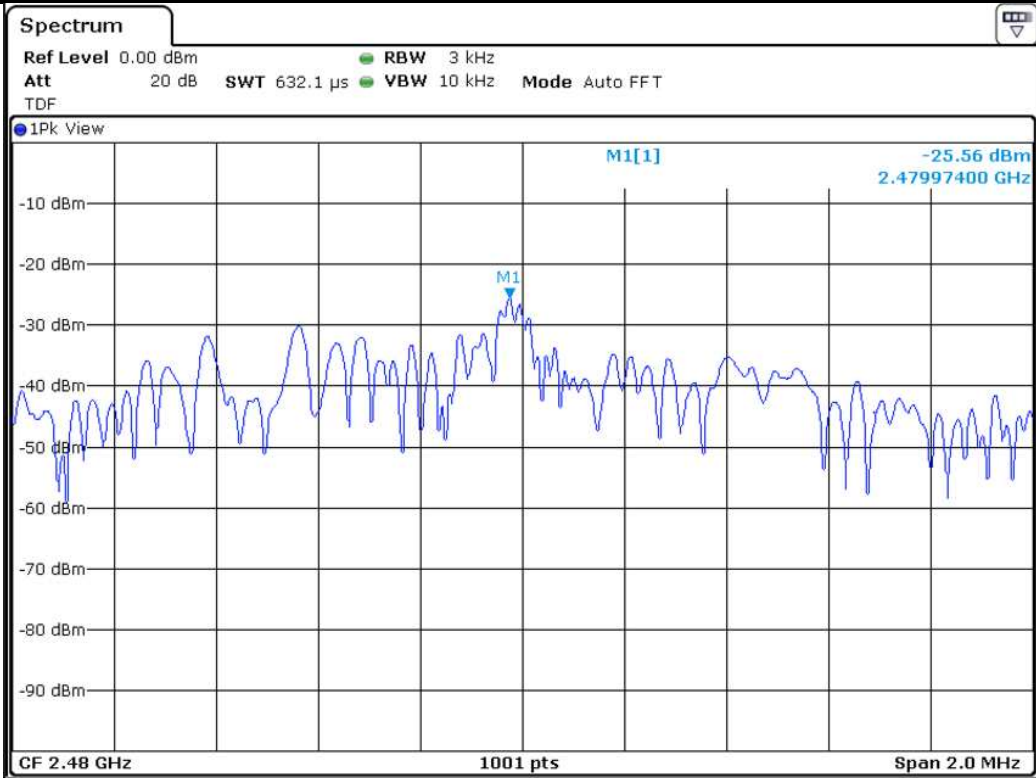
7.3.3 Measured Graph_Bluetooth LE (2 Mbps)



Low CH



Mid CH



High CH



8. Conducted Spurious Emission

8.1 Operating environment

Temperature : 23.9 °C
Relative humidity : 47.2 %

8.2 Measurement method

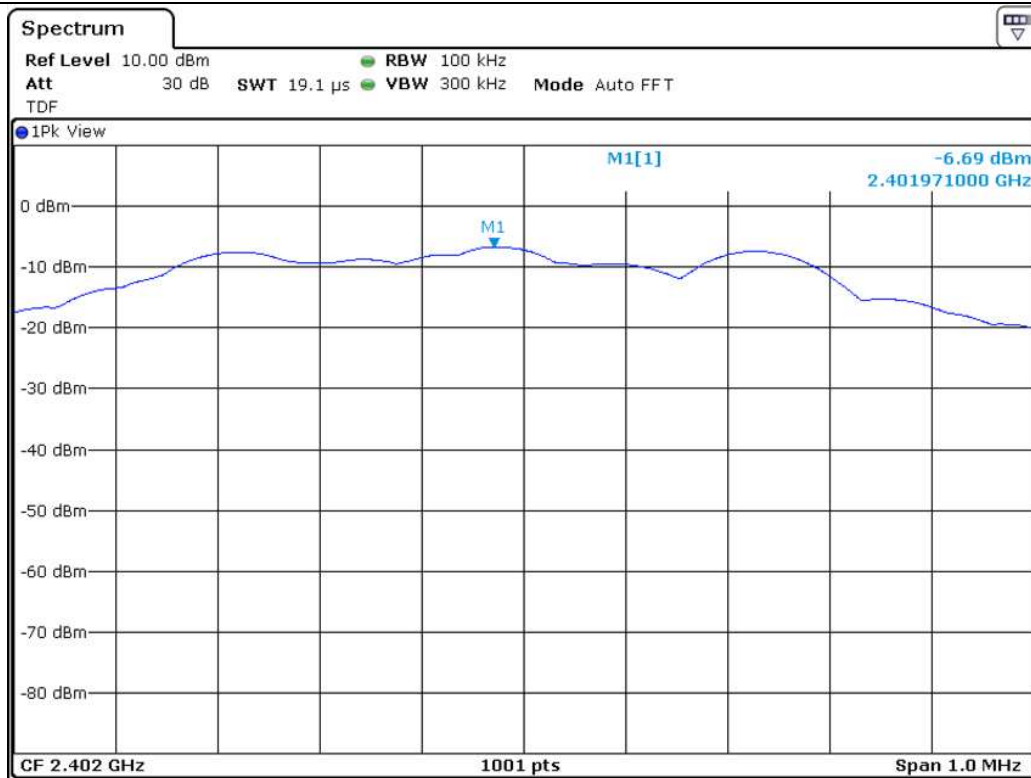
Standard : §15.247 (d)

8.3 Test data

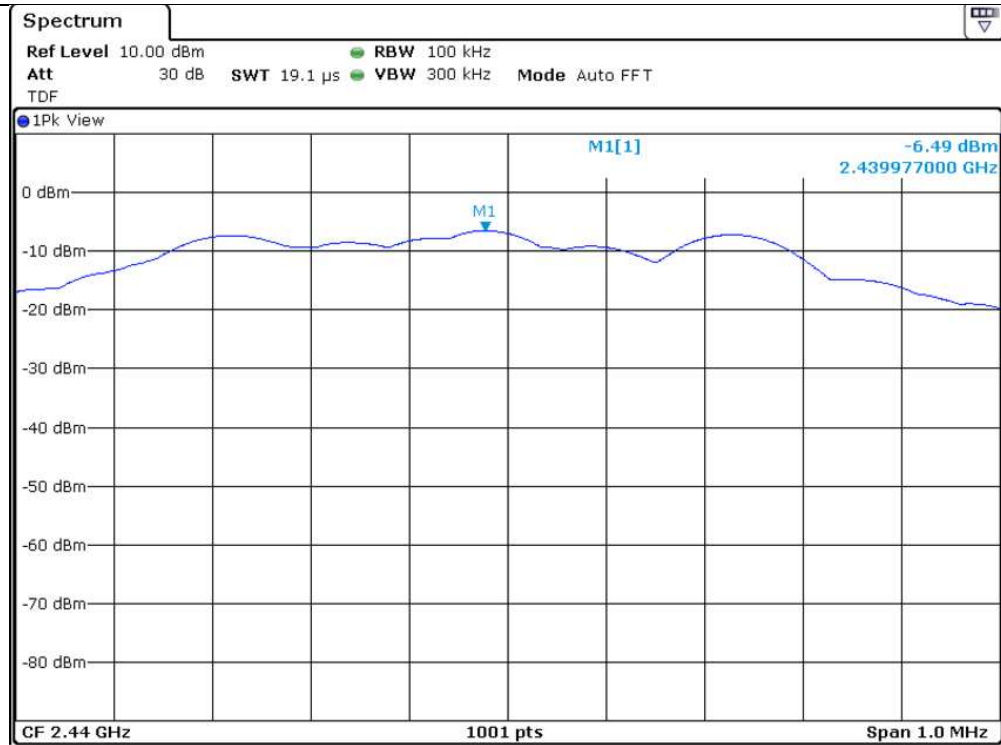
Operating mode : Transmit mode
Test Result : Pass

8.3.1 Measured Results

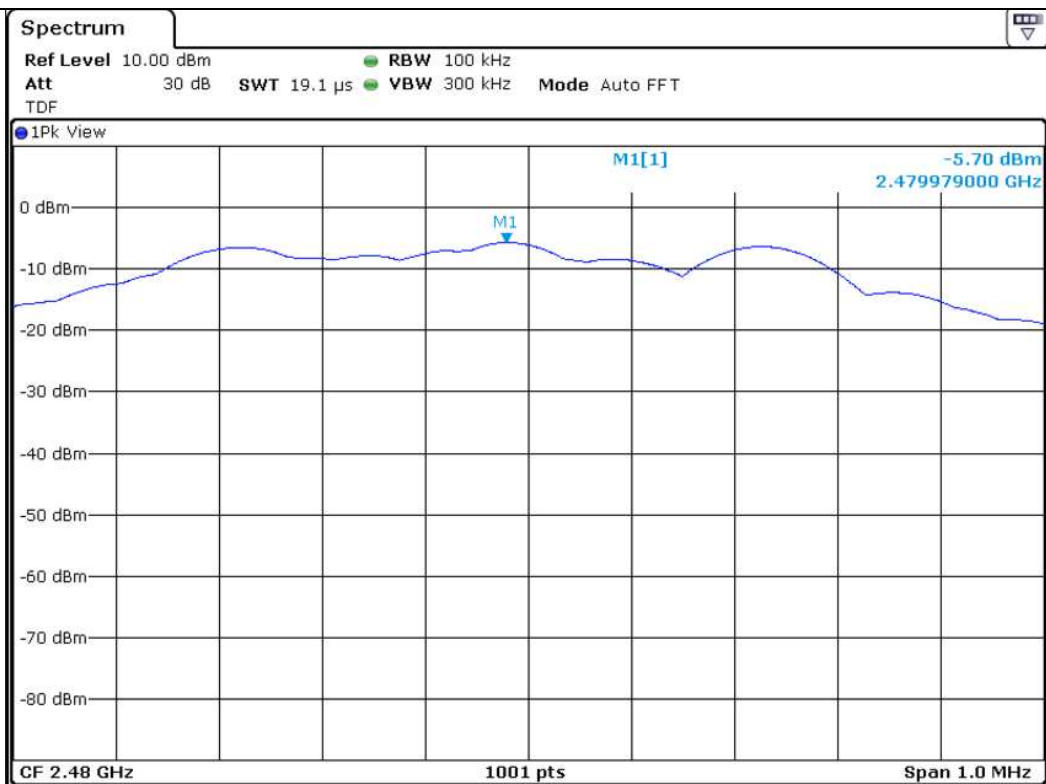
8.3.1.1 Signal level (dB m)_ Bluetooth LE (1 Mbps)



Low CH



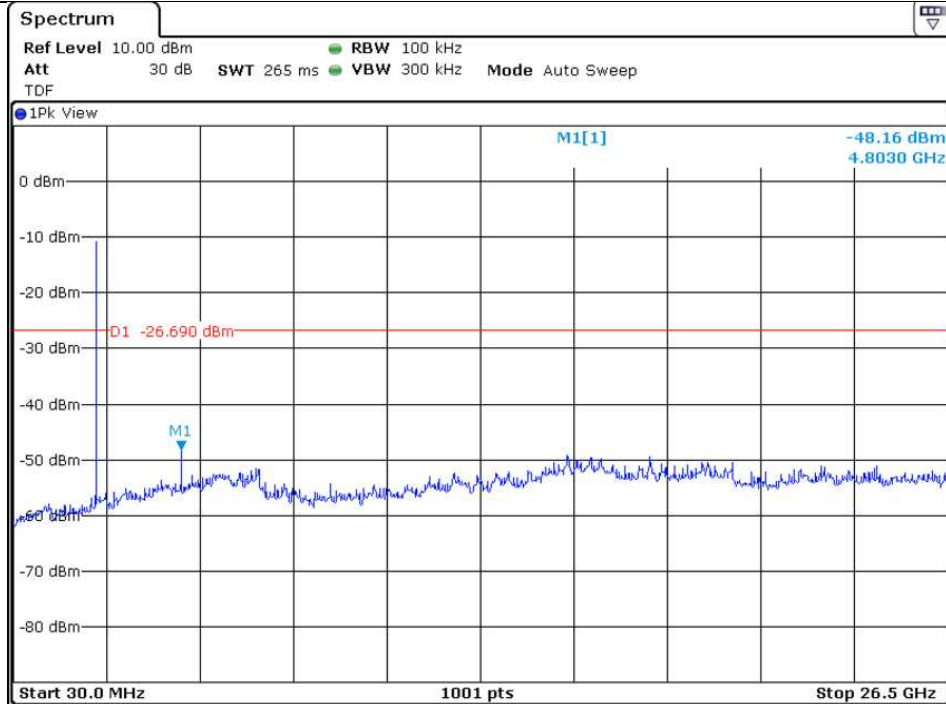
Mid CH



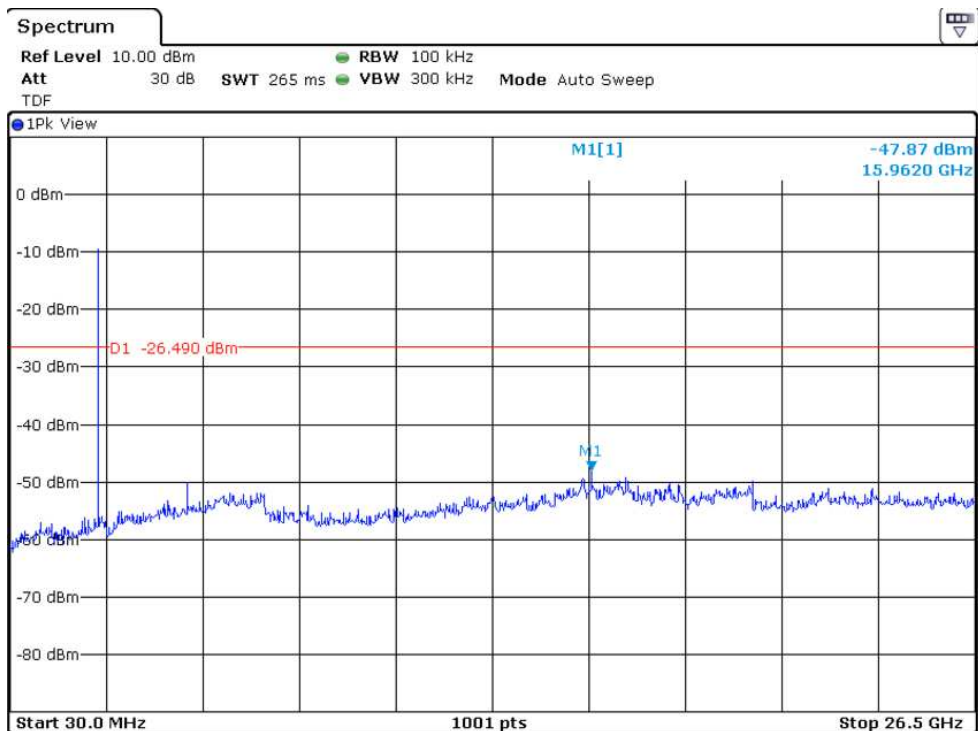
High CH



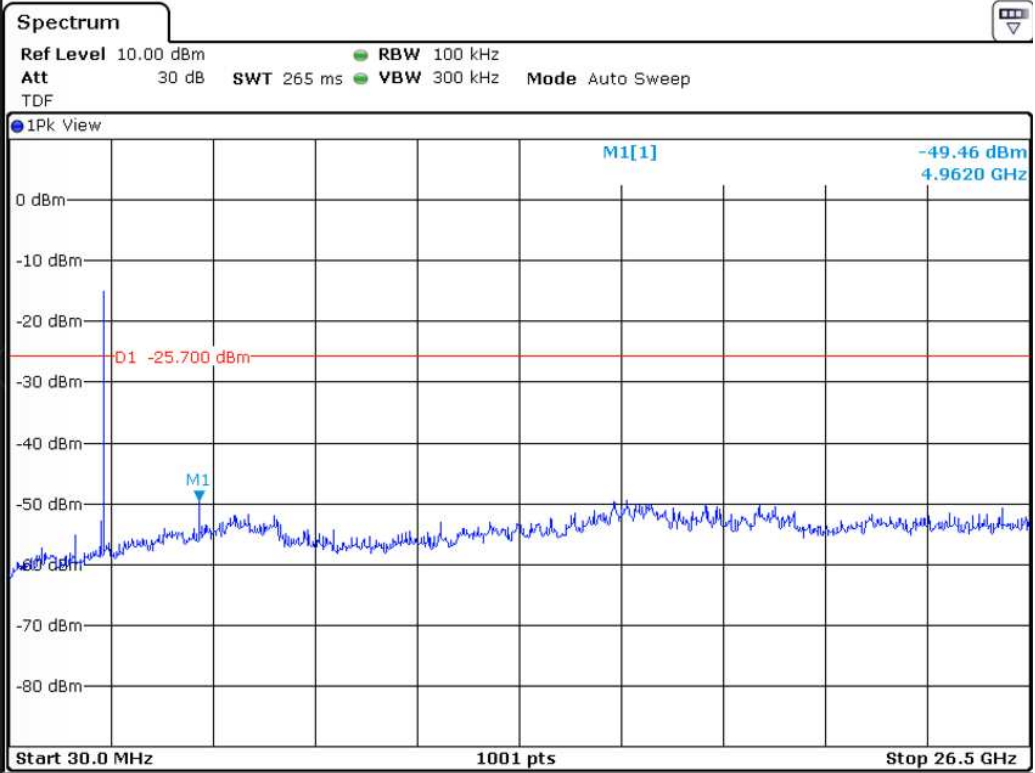
8.3.1.2 Unwanted Emissions In Non-Restricted Frequency Bands_Bluetooth LE (1 Mbps)



Low CH



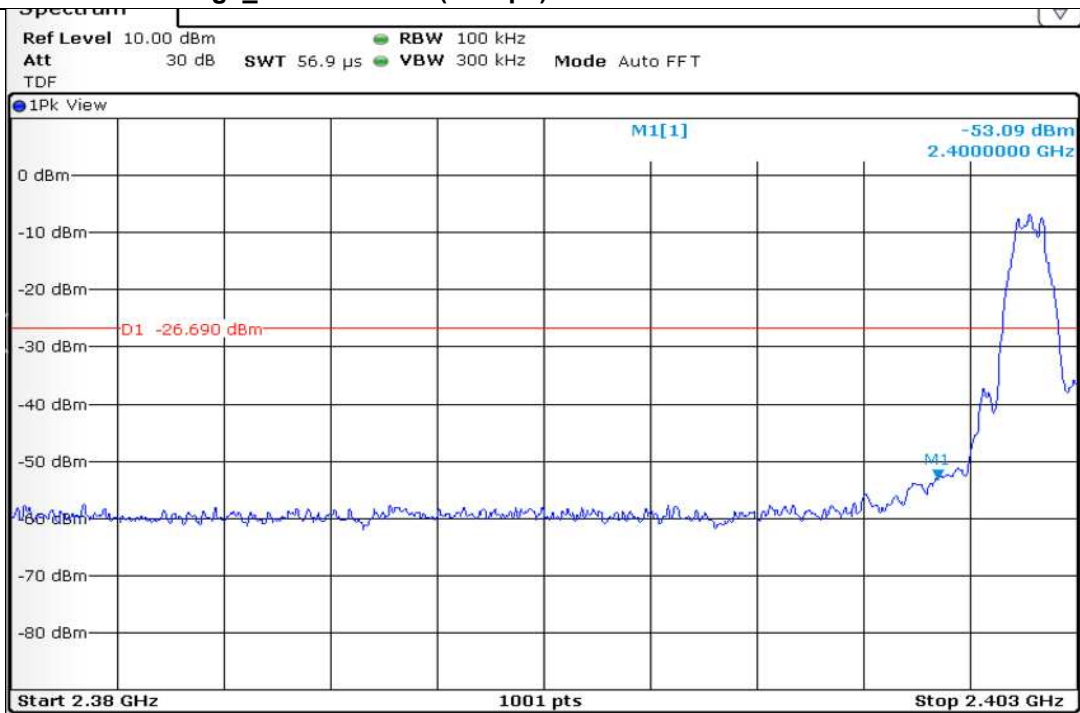
Mid CH



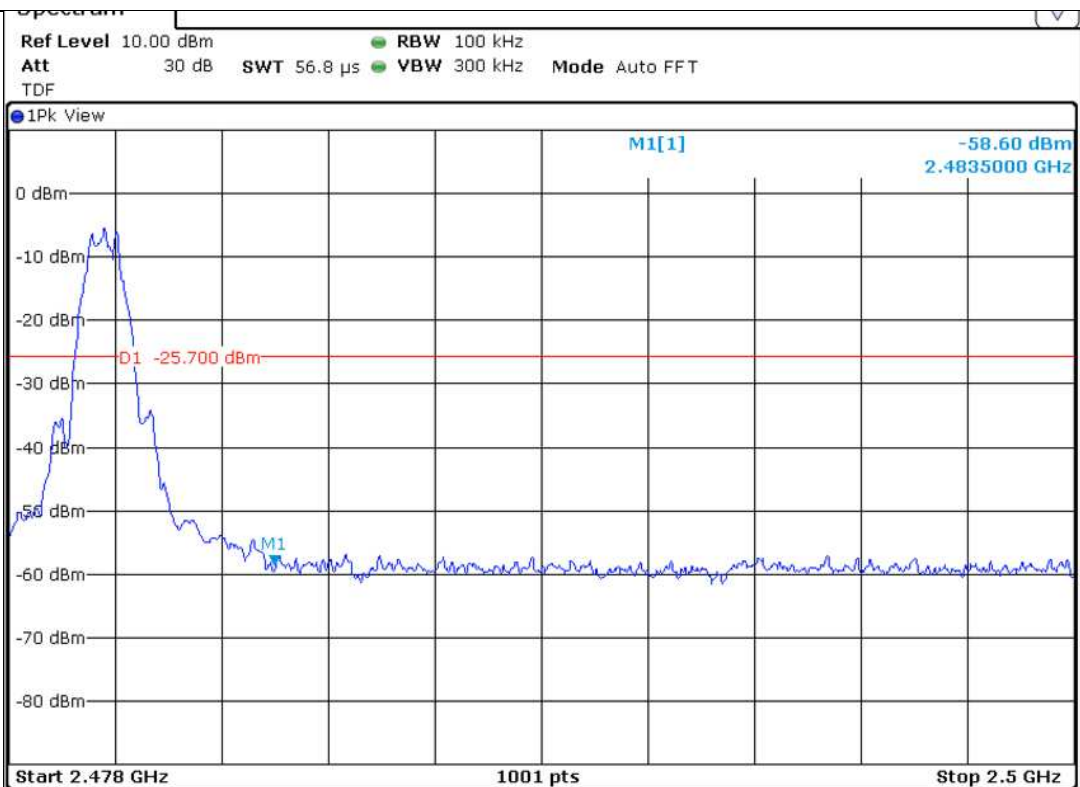
High CH



8.3.1.3 Band Edge_ Bluetooth LE (1 Mbps)

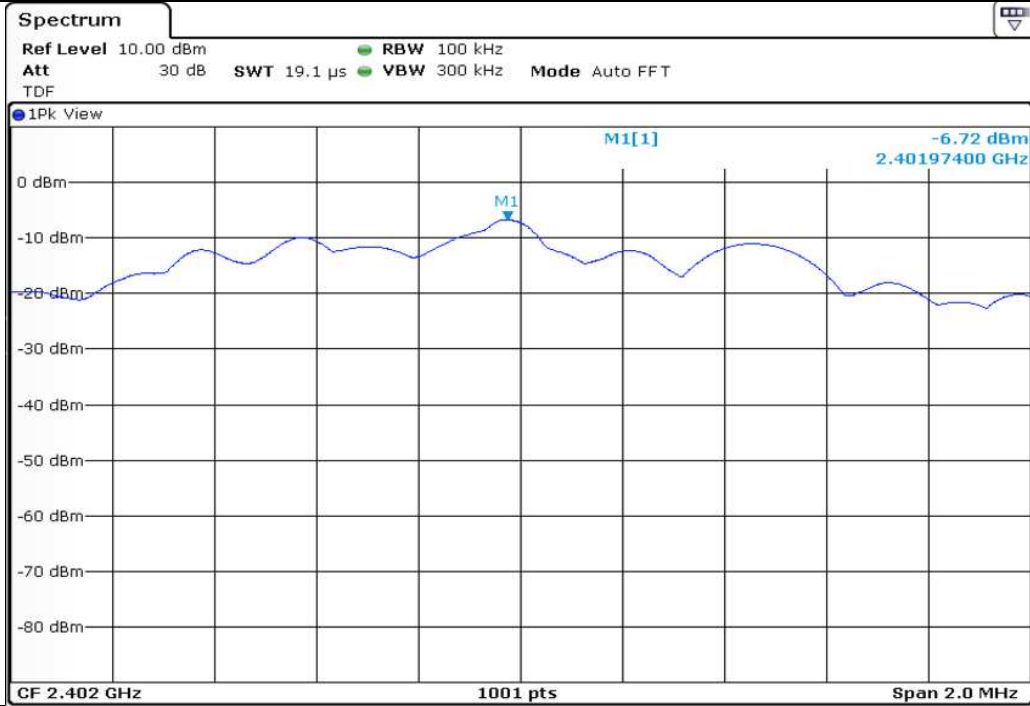


Low CH

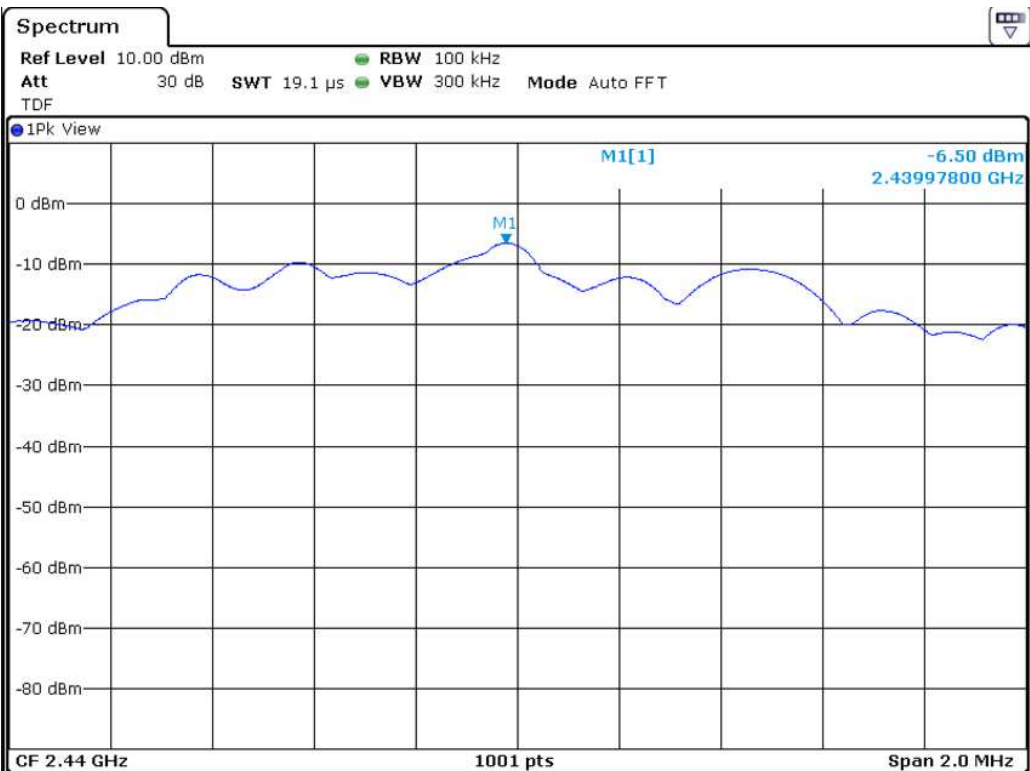


High CH

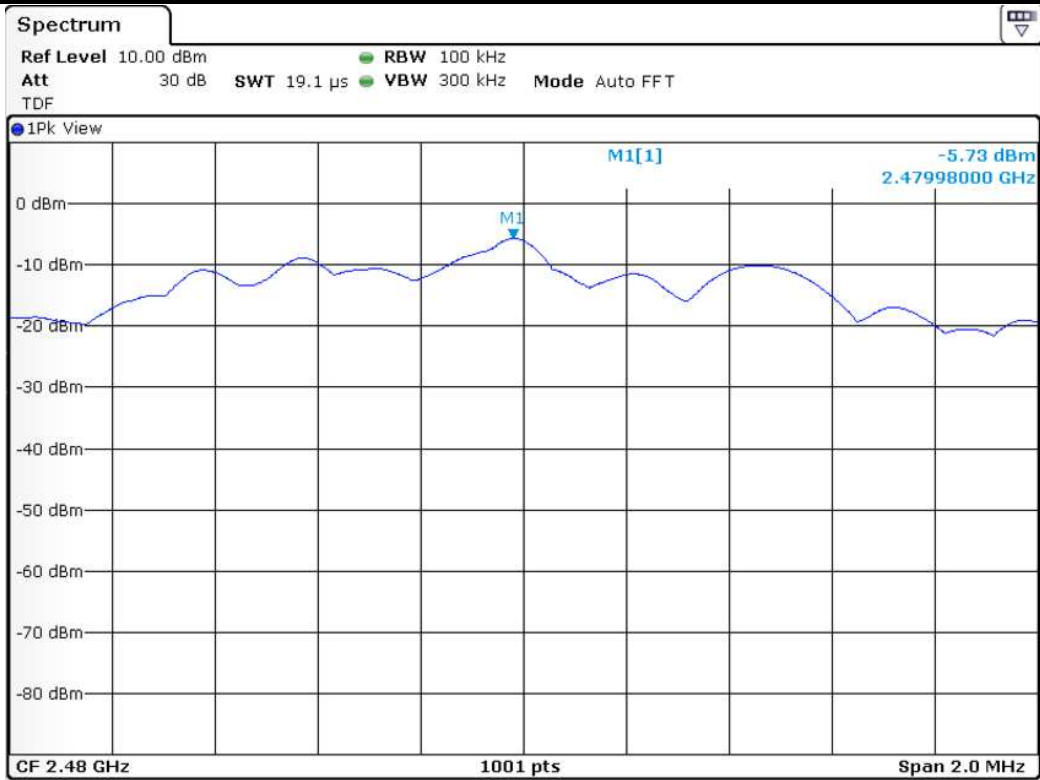
8.3.1.4 Signal level (dB m)_ Bluetooth LE (2 Mbps)



Low CH



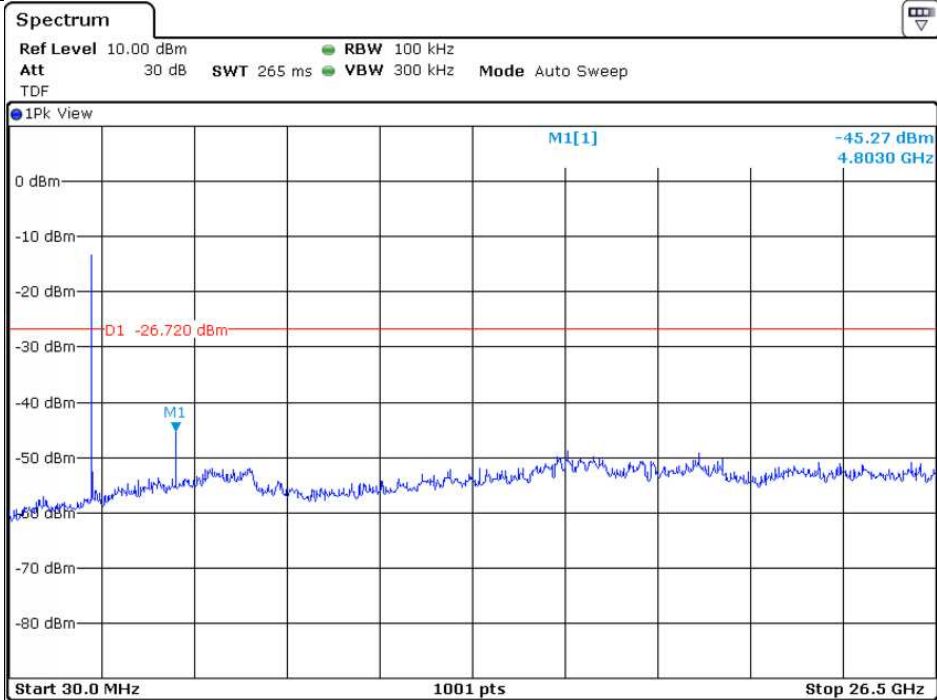
Mid CH



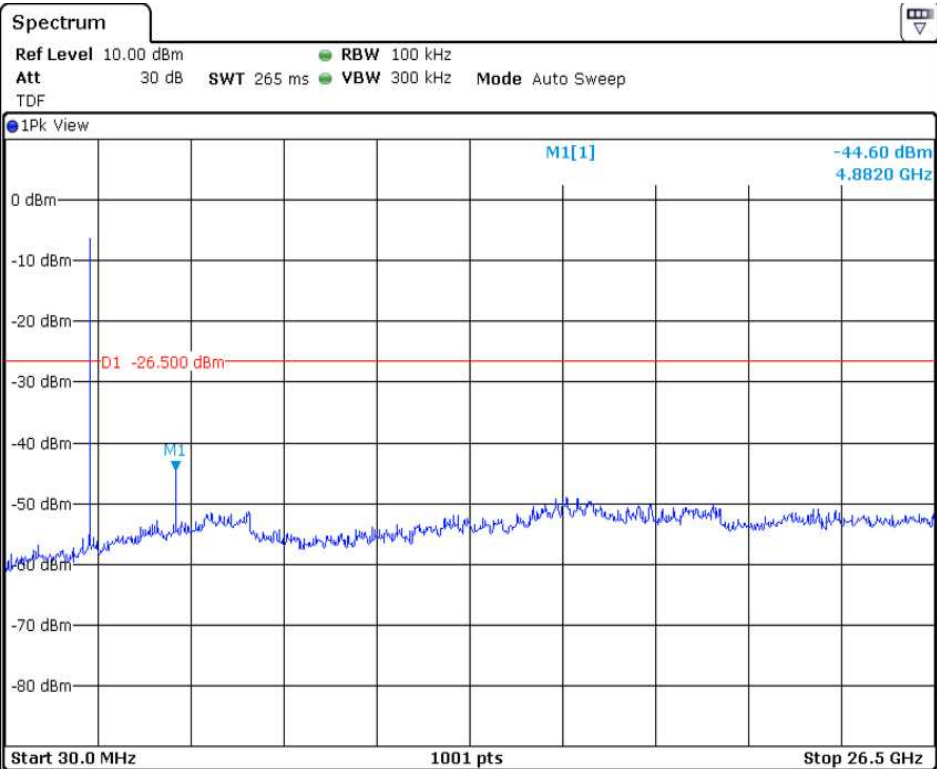
High CH



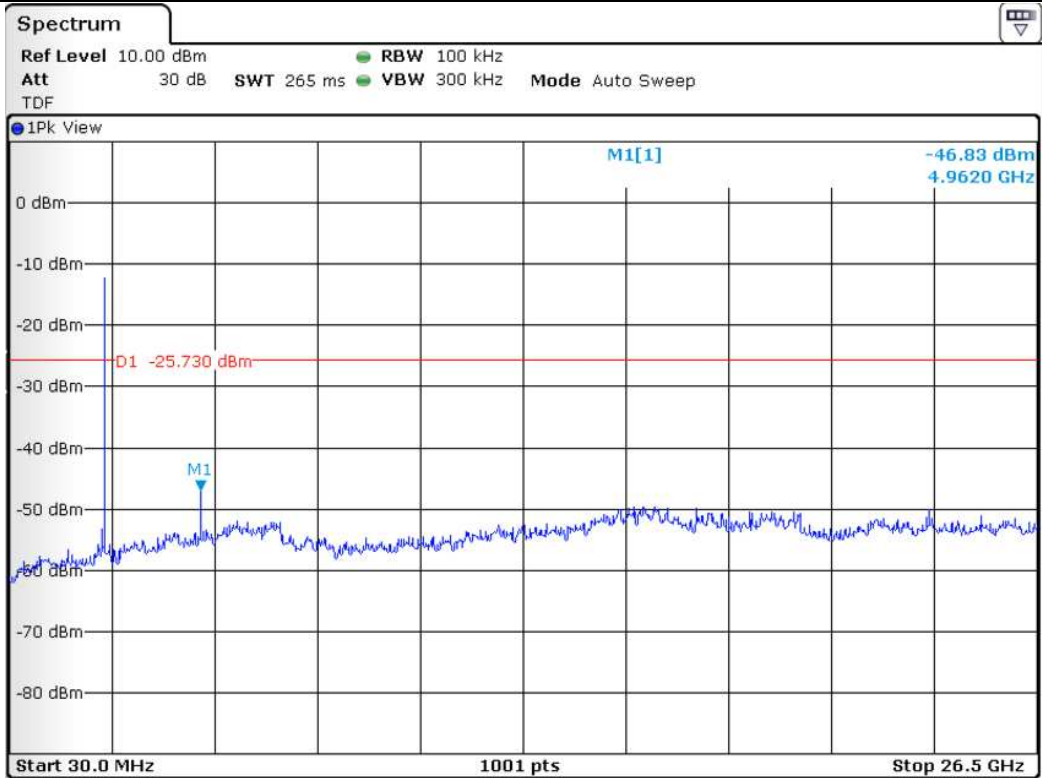
8.3.1.5 Unwanted Emissions In Non-Restricted Frequency Bands_Bluetooth LE (2 Mbps)



Low CH

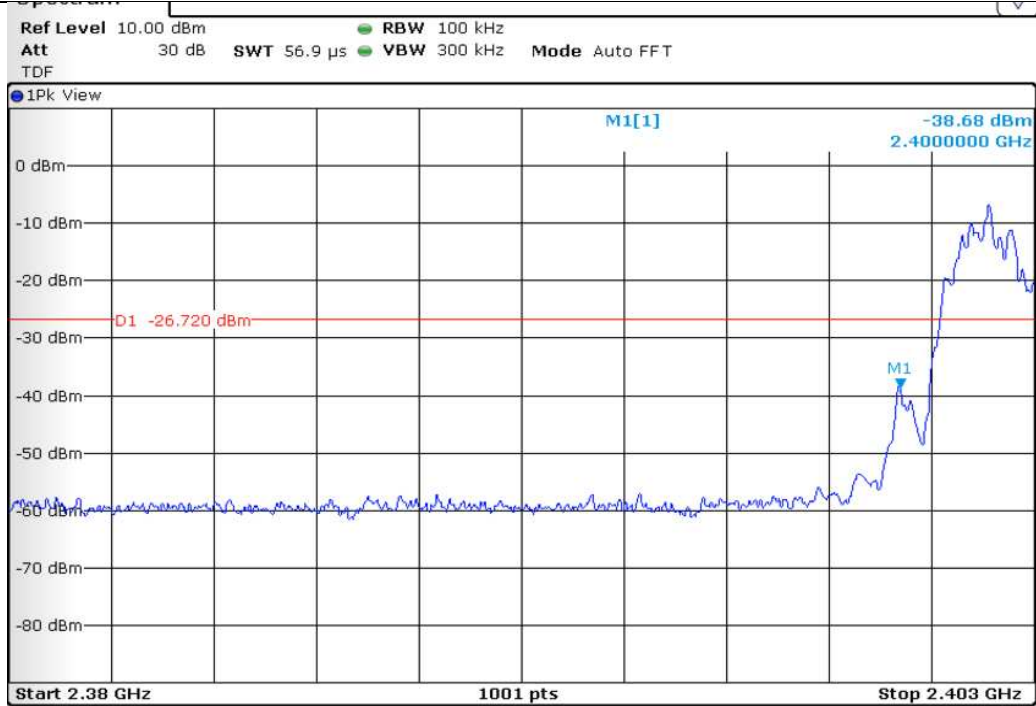


Mid CH

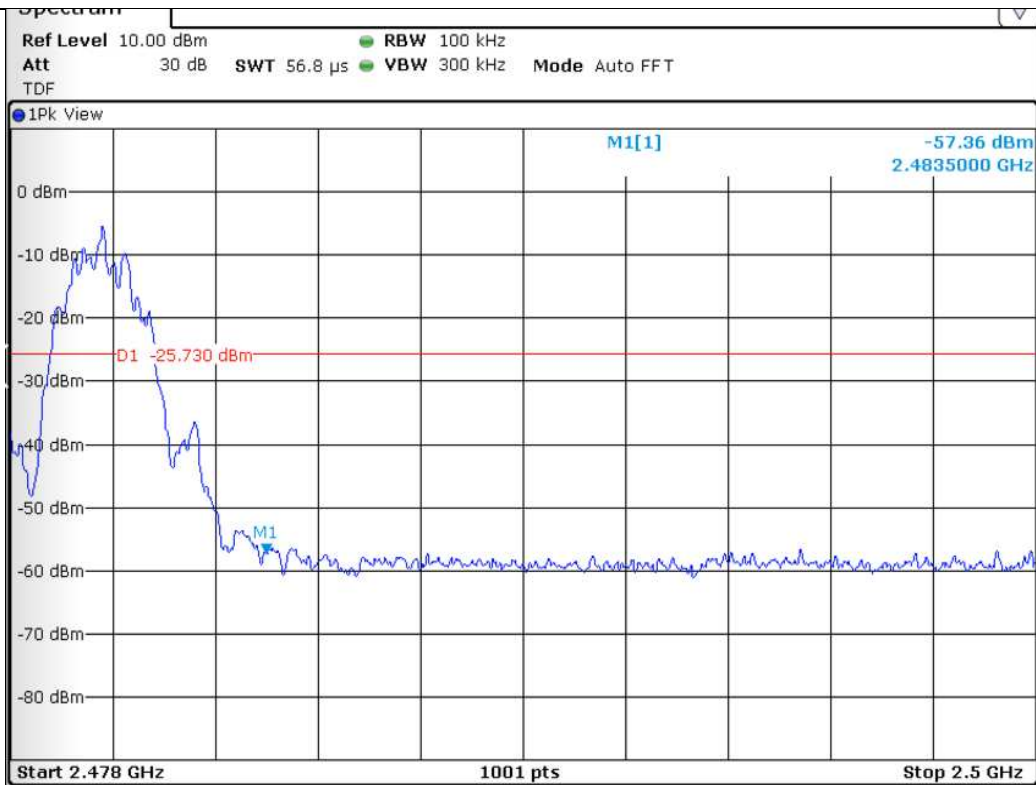


High CH

8.3.1.6 Band Edge_ Bluetooth LE (2 Mbps)



Low CH



High CH

9. Radiated Spurious Emission

9.1 Operating environment

Temperature : 24.2 °C
Relative humidity : 48.5 %

9.2 Measurement method

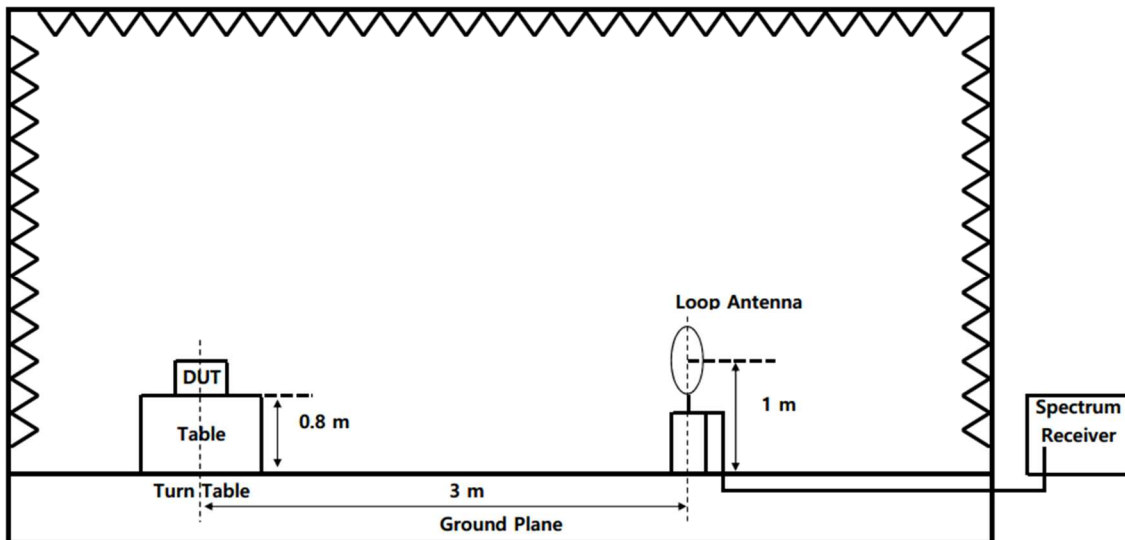
Standard : §15.247 (d), §15.209, §15.205

9.3 Test setup

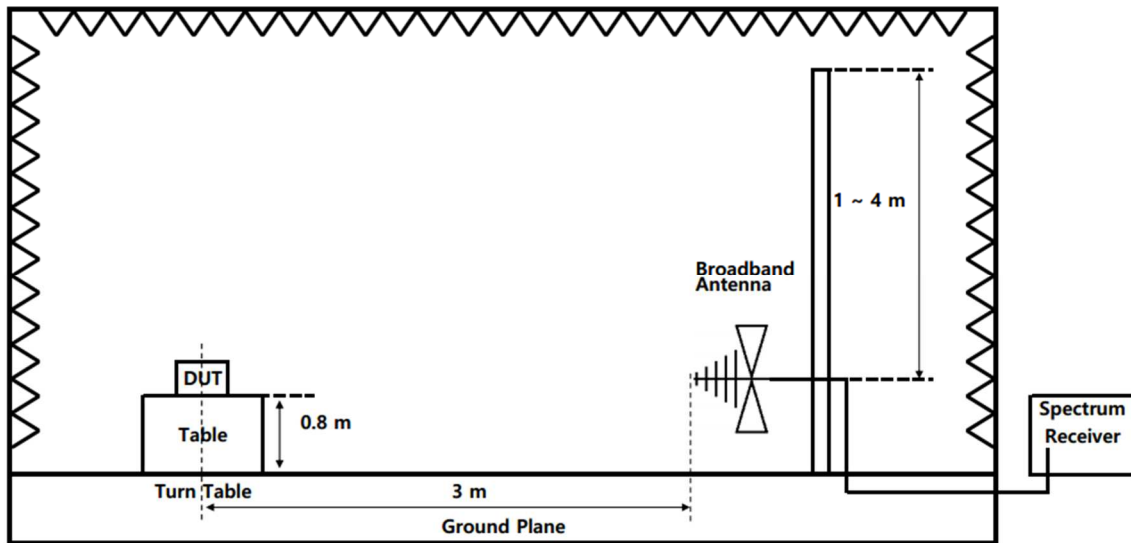
The radiated emissions measurements were performed on the 3 m, Semi-Anechoic Chamber. The EUT was placed on a non-conductive turntable above the ground plane.

The frequency spectrum from 9 kHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

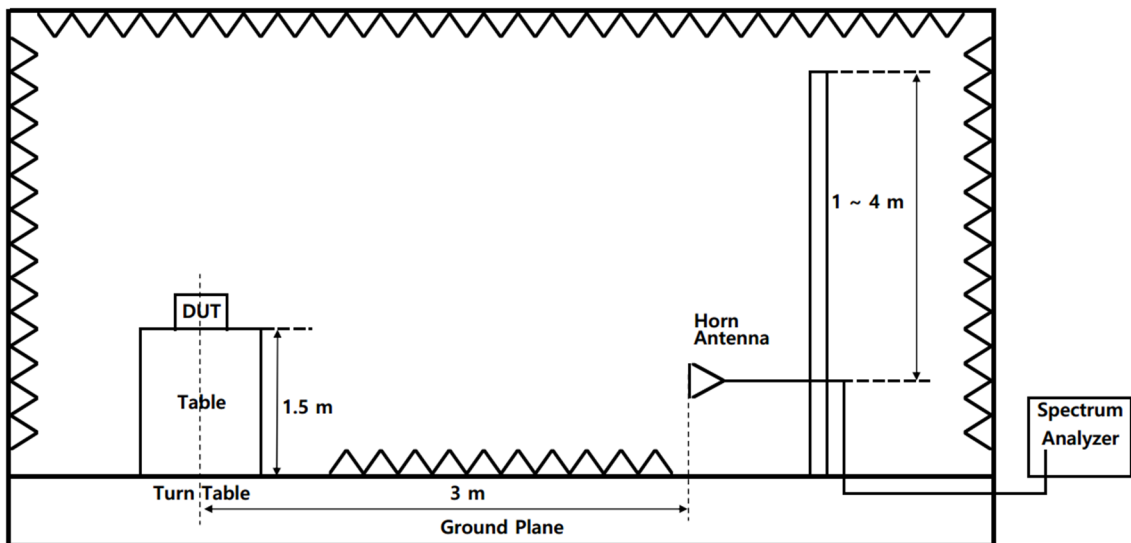
9.3.1 Below 30 MHz



9.3.2 30 MHz to 1 GHz



9.3.3 Above 1 GHz



**9.4 Test data**

Operating mode : Transmit mode

Test Result : Pass

9.4.1 Test data for Restricted band_ Bluetooth LE (1 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 317.032	50.42	Peak	H	-14.70	35.72	73.98	38.26
	36.97	Average	H		22.27	53.98	31.71
High CH							
2 484.062	57.16	Peak	V	-14.10	43.06	73.98	30.92
	35.70	Average	V		21.60	53.98	32.38

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.2 Test data for Spurious & Harmonic**9.4.2.1 Measurement Results for below 30 MHz_ Bluetooth LE (1 Mbps)**

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

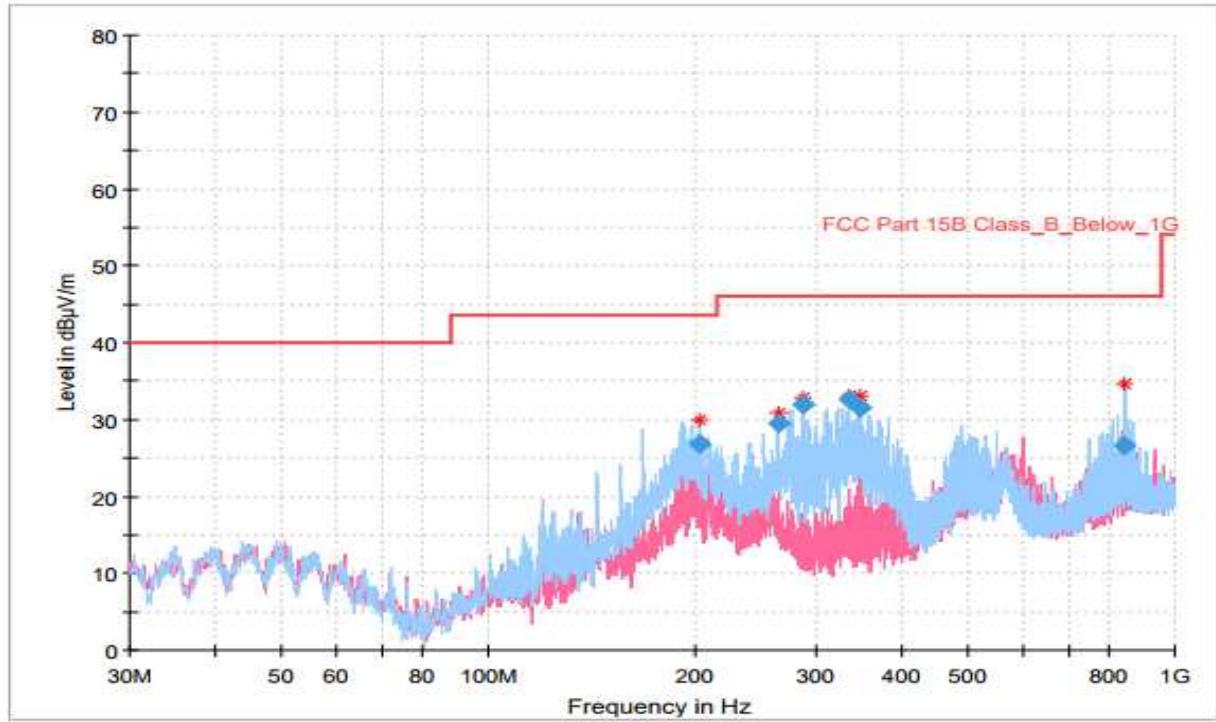
※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

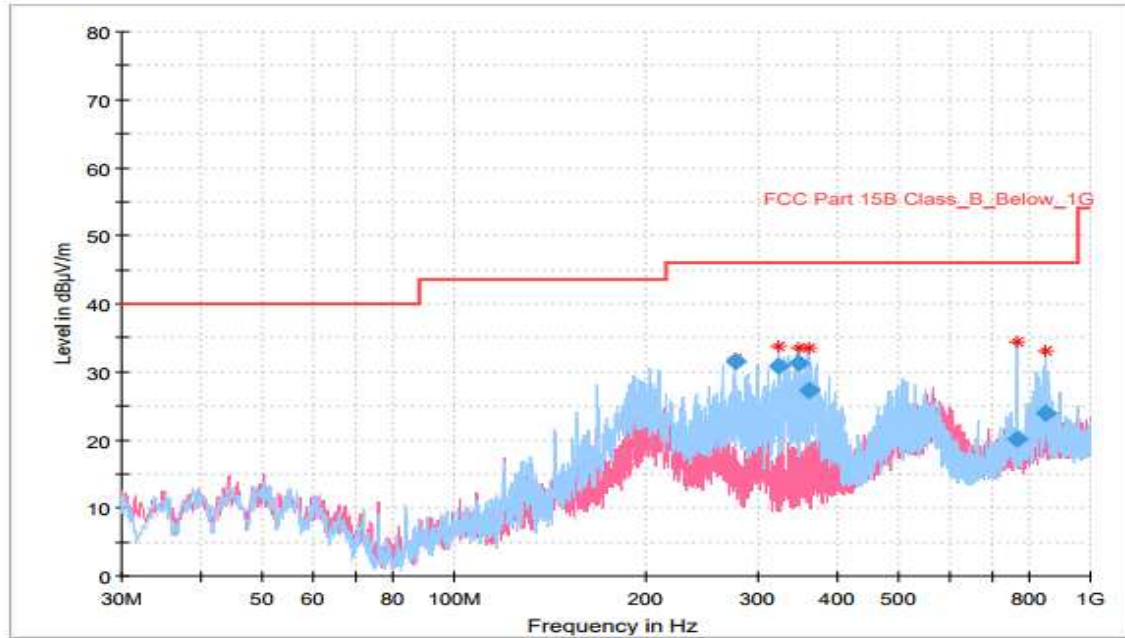
9.4.2.2 Measurement Results for below 1 GHz_ Bluetooth LE (1 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
203.048000	26.88	43.50	16.62	1000.0	120.000	100.1	H	67.0	-24.3
263.867000	29.58	46.00	16.42	1000.0	120.000	100.1	H	0.0	-21.9
288.020000	31.98	46.00	14.02	1000.0	120.000	100.1	H	0.0	-21.2
335.938000	32.54	46.00	13.46	1000.0	120.000	100.1	H	0.0	-19.4
347.772000	31.50	46.00	14.50	1000.0	120.000	100.1	H	0.0	-19.0
846.934000	26.53	46.00	19.47	1000.0	120.000	100.1	H	262.0	-9.8

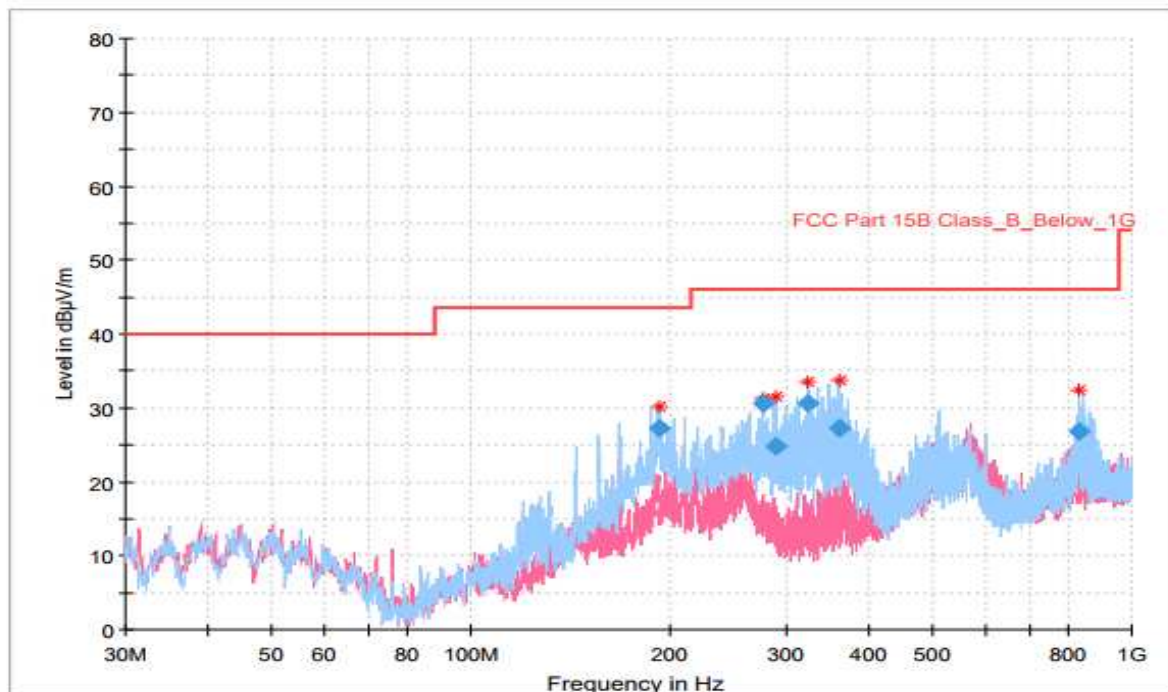
Low CH



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
275.895000	31.54	46.00	14.46	1000.0	120.000	99.9	H	0.0	-21.6
323.813000	30.73	46.00	15.27	1000.0	120.000	99.9	H	332.0	-20.1
347.966000	31.19	46.00	14.81	1000.0	120.000	99.9	H	0.0	-19.0
360.673000	27.26	46.00	18.74	1000.0	120.000	99.9	H	188.0	-19.6
765.163000	20.20	46.00	25.80	1000.0	120.000	99.9	H	267.0	-11.1
850.426000	24.00	46.00	22.00	1000.0	120.000	99.9	H	332.0	-9.8

Mid CH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
192.184000	27.23	43.50	16.27	1000.0	120.000	200.0	H	60.0	-24.7
276.186000	30.53	46.00	15.47	1000.0	120.000	100.0	H	0.0	-21.6
288.408000	24.75	46.00	21.25	1000.0	120.000	100.0	H	339.0	-21.2
324.104000	30.55	46.00	15.45	1000.0	120.000	100.0	H	0.0	-20.0
359.800000	27.34	46.00	18.66	1000.0	120.000	100.0	H	188.0	-19.6
833.063000	26.92	46.00	19.08	1000.0	120.000	100.0	H	243.0	-10.2

High CH



9.4.2.3 Measurement Results for Above 1 GHz Bluetooth LE (1 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 802.900	52.11	Peak	V	-4.00	48.11	73.98	25.87
	39.95	Average	V		35.95	53.98	18.03
7 205.000	48.28	Peak	V	0.70	48.98	73.98	25.00
	35.49	Average	V		36.19	53.98	17.79
Mid CH							
4 879.400	53.52	Peak	V	-3.40	50.12	73.98	23.86
	42.52	Average	V		39.12	53.98	14.86
7 320.600	44.28	Peak	V	0.70	44.98	73.98	29.00
	30.98	Average	V		31.68	53.98	22.30
High CH							
4 959.300	54.46	Peak	V	-3.20	51.26	73.98	22.72
	43.63	Average	V		40.43	53.98	13.55
7 441.300	42.76	Peak	H	1.00	43.76	73.98	30.22
	27.31	Average	H		28.31	53.98	25.67

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result



9.4.3 Test data for Restricted band_ Bluetooth LE (2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 320.288	49.32	Peak	H	-14.70	34.62	73.98	39.36
	36.06	Average	H		21.36	53.98	32.62
High CH							
2 484.211	59.07	Peak	V	-14.10	44.97	73.98	29.01
	37.53	Average	V		23.43	53.98	30.55

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.4 Test data for Spurious & Harmonic

9.4.4.1 Measurement Results for below 30 MHz_ Bluetooth LE (2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

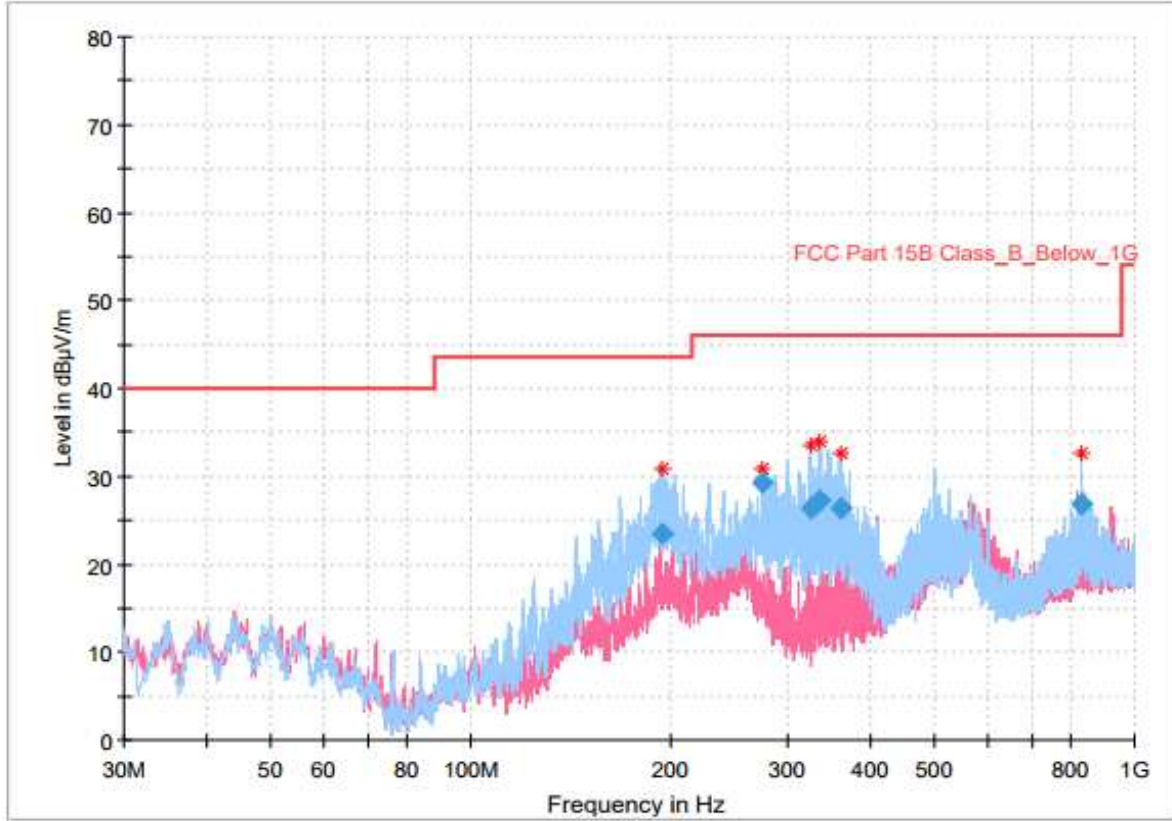
※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

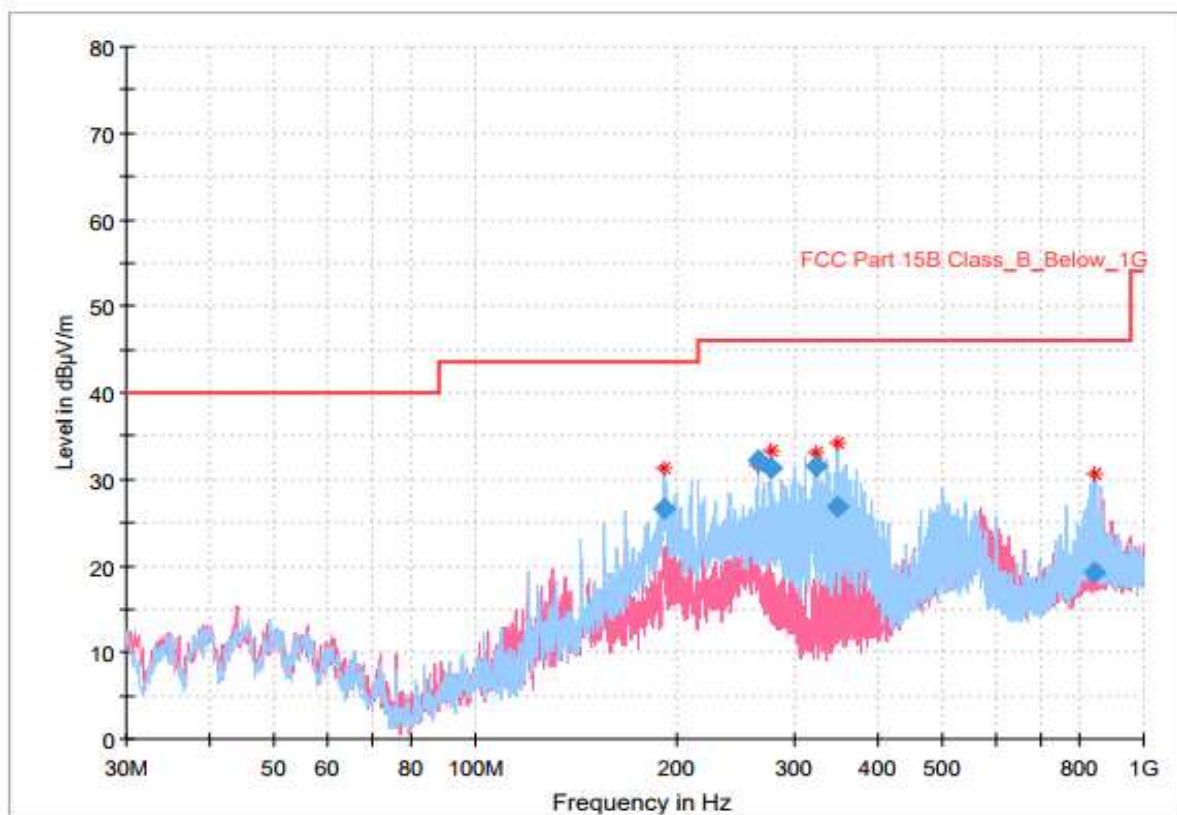
9.4.4.2 Measurement Results for below 1 GHz_ Bluetooth LE (2 Mbps)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
194.415000	23.53	43.50	19.97	1000.0	120.000	200.0	H	242.0	-24.2
275.701000	29.33	46.00	16.67	1000.0	120.000	99.9	H	19.0	-21.6
324.492000	26.43	46.00	19.57	1000.0	120.000	99.9	H	0.0	-20.0
336.520000	27.23	46.00	18.77	1000.0	120.000	99.9	H	2.0	-19.4
360.382000	26.33	46.00	19.67	1000.0	120.000	99.9	H	0.0	-19.6
831.705000	26.84	46.00	19.16	1000.0	120.000	99.9	H	278.0	-10.2

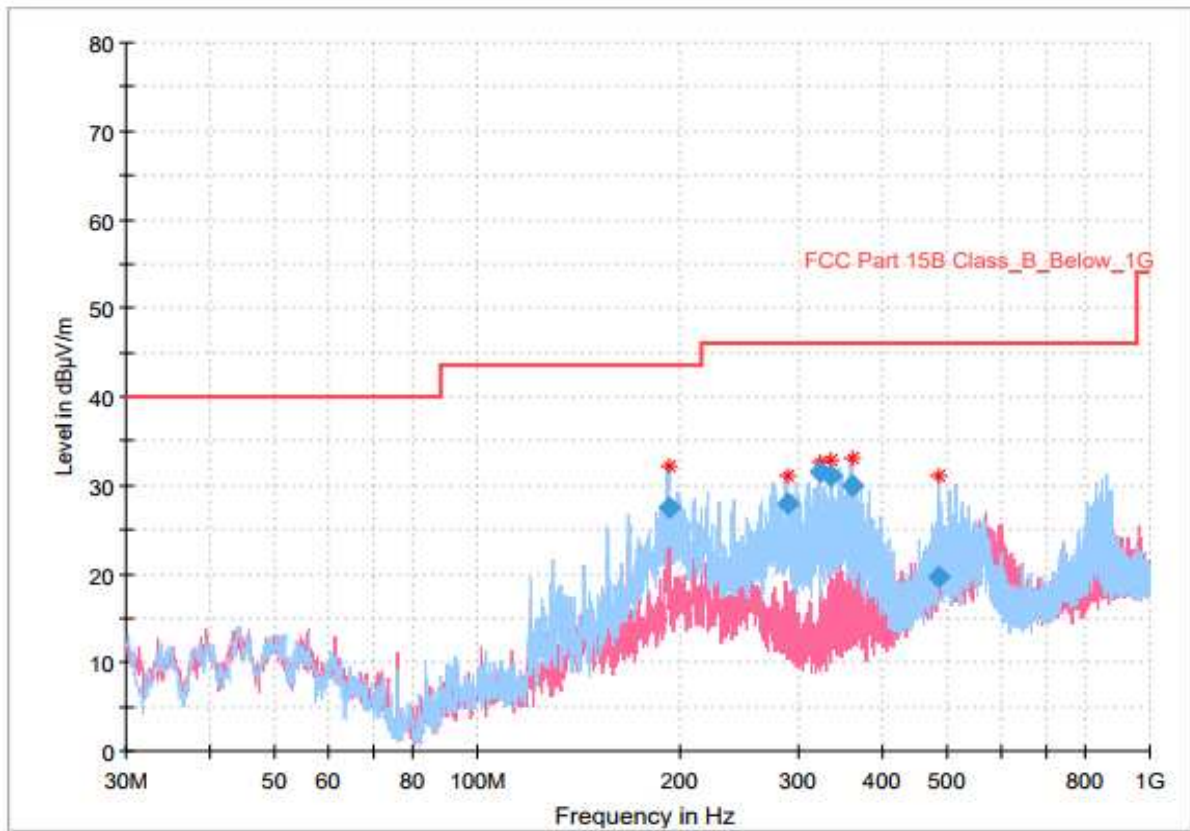
Low CH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
190.923000	26.69	43.50	16.81	1000.0	120.000	100.0	H	256.0	-24.8
263.964000	32.14	46.00	13.86	1000.0	120.000	100.0	H	256.0	-21.9
275.895000	31.27	46.00	14.73	1000.0	120.000	100.0	H	351.0	-21.6
323.619000	31.59	46.00	14.41	1000.0	120.000	100.0	H	358.0	-20.1
347.675000	26.89	46.00	19.11	1000.0	120.000	100.0	H	338.0	-19.0
843.054000	19.28	46.00	26.72	1000.0	120.000	100.0	H	157.0	-9.9

Mid CH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
192.184000	27.48	43.50	16.02	1000.0	120.000	100.0	H	230.0	-24.7
288.311000	27.95	46.00	18.05	1000.0	120.000	100.0	H	0.0	-21.2
323.619000	31.44	46.00	14.56	1000.0	120.000	100.0	H	356.0	-20.1
336.229000	31.16	46.00	14.84	1000.0	120.000	100.0	H	0.0	-19.4
359.800000	29.88	46.00	16.12	1000.0	120.000	100.0	H	336.0	-19.6
485.997000	19.67	46.00	26.33	1000.0	120.000	200.0	H	0.0	-16.0

High CH



9.4.4.3 Measurement Results for Above 1 GHz_ Bluetooth LE (2 Mbps)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 804.600	58.03	Peak	V	-3.90	54.13	73.98	19.85
	43.14	Average	V		39.24	53.98	14.74
7 213.500	41.61	Peak	V	0.70	42.31	73.98	31.67
	28.14	Average	V		28.84	53.98	25.14
Mid CH							
4 881.100	51.36	Peak	V	-3.40	47.96	73.98	26.02
	35.15	Average	V		31.75	53.98	22.23
7 334.200	42.13	Peak	V	0.70	42.83	73.98	31.15
	27.57	Average	V		28.27	53.98	25.71
High CH							
4 961.000	58.90	Peak	V	-3.20	55.70	73.98	18.28
	42.17	Average	V		38.97	53.98	15.01
7 437.900	40.59	Peak	V	1.00	41.59	73.98	32.39
	27.17	Average	V		28.17	53.98	25.81

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

- END -