

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Fengmi (Beijing) Technology Co., Ltd.

Bluetooth Remote Control

RC605

FCC ID: 2AO2D-RC605

Prepared for : Fengmi (Beijing) Technology Co., Ltd.

301, 3F, Building 3, No.10, Barracks South Street, Renhe
Town, Shunyi District, Beijing, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F21055

Date of Test : Feb.23~Mar.03, 2021

Date of Report : Mar.12, 2021

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	5
1.1. Description of Standards and Results	5
2. GENERAL INFORMATION.....	6
2.1. Description of Equipment Under Test	6
2.2. Feature of Equipment Under Test.....	7
2.3. Tested Supporting System Details	8
2.4. Block Diagram of connection between EUT and simulators.....	8
2.5. Test information	8
2.6. Test Facility	8
2.7. Measurement Uncertainty (95% confidence levels, k=2)	9
3. POWER LINE CONDUCTED EMISSION TEST	10
4. RADIATED EMISSION MEASUREMENT.....	11
4.1. Test Equipment	11
4.2. Block Diagram of Test Setup	12
4.3. Radiated Emission Limit Standard:	13
4.4. EUT Configuration on Test	13
4.5. Operating Condition of EUT.....	13
4.6. Test Procedure	13
4.7. Radiated Emission Test Results.....	14
5. CONDUCTED SPURIOUS EMISSIONS.....	35
5.1. Test Equipment	35
5.2. Block Diagram of Test Setup	35
5.3. Limit.....	35
5.4. Test Procedure	35
5.5. Test result.....	35
6. 6DB BANDWIDTH TEST.....	39
6.1. Test Equipment	39
6.2. Block Diagram of Test Setup	39
6.3. Limit.....	39
6.4. Test Procedure	39
6.5. Test Results.....	39
7. MAXIMUM PEAK OUTPUT POWER TEST.....	41
7.1. Test Equipment	41
7.2. Limit.....	41
7.3. Test Procedure	41
7.4. Test Results	41
8. BAND EDGE COMPLIANCE TEST	42
8.1. Test Equipment	42
8.2. Limit.....	42
8.3. Test Produce.....	42
8.4. Test Results	42
9. POWER SPECTRAL DENSITY TEST.....	51
9.1. Test Equipment	51
9.2. Block Diagram of Test Setup	51
9.3. Limit.....	51
9.4. Test Procedure	51
9.5. Test Results.....	52
10. ANTENNA REQUIREMENT.....	53

10.1. STANDARD APPLICABLE 53

10.2. ANTENNA CONNECTED CONSTRUCTION..... 53

11. DEVIATION TO TEST SPECIFICATIONS54

Appendix A. Photograph of Test

Appendix B. Photo of the EUT

TEST REPORT CERTIFICATION

Applicant : Fengmi (Beijing) Technology Co., Ltd.
Manufacturer : Fengmi (Beijing) Technology Co., Ltd.
Product : Bluetooth Remote Control
FCC ID : 2A02D-RC605
(A) Model No. : RC605
(B) Test Voltage : DC 3V

Tested for comply with:

FCC CFR47 Part 15 Subpart C
Test procedure used: ANSI C63.10: 2013;
KDB 558074 D01v05r02

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1074. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Feb.23~Mar.03, 2021 Report of date: Mar.12, 2021

Prepared by : Monica Liu Reviewed by : Sunny Lu
Monica Liu / Assistant Sunny Lu / Deputy Manager



信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Approved & Authorized Signer :

Signature: David Jin

David Jin / Deputy General Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2013	N/A
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.205 FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(2) ANSI C63.10 : 2013	N/A
6dB Bandwidth Test	FCC Part 15: 15.247(b)(3) ANSI C63.10 : 2013	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(e) ANSI C63.10 : 2013	PASS
Power Spectral Density Test	FCC Part 15: 15.207 ANSI C63.10 :2013	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
N/A is an abbreviation for not applicable. New batteries used during all test.		

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	Fengmi (Beijing) Technology Co., Ltd.
Applicant Address	301, 3F, Building 3, No.10, Barracks South Street, Renhe Town, Shunyi District, Beijing, China
Manufacturer	Fengmi (Beijing) Technology Co., Ltd.
Manufacturer Address	301, 3F, Building 3, No.10, Barracks South Street, Renhe Town, Shunyi District, Beijing, China
Product	Bluetooth Remote Control
Model No.	RC605
FCC ID	2AO2D-RC605
Sample Type	Prototype production
Date of Receipt	Jan.28, 2021
Date of Test	Feb.23~Mar.03, 2021

2.2.Feature of Equipment Under Test

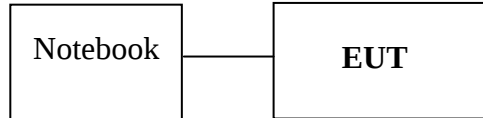
Product Feature & Specification		
Product	Bluetooth Remote Control	
Model No.	RC605	
Radio	BLE	
Power Source	☐ Commercial Power	AC 100 ~ 240V
	☐ External Power Source	DC V
	☐ Lithium battery	DC V, mAh
	☒ UM battery	DC 3V
Bluetooth		
Bluetooth Version	V4.2	
Frequency Range	2402-2480MHz	
Type of Modulation	GFSK	
Data Rate	1Mbps	
Quantity of Channels	40	
Channel Separation	2MHz	

Antenna System	
Type of Antenna	PIFA Antenna
Antenna Peak Gain	Bluetooth Peak Gain: -3.477dBi

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
	USB Cable: Shielded, Detachable, 1.0m				

2.4. Block Diagram of connection between EUT and simulators



(EUT: Bluetooth Remote Control)

2.5. Test information

A special software (RF Test Tool) was used to control EUT work in Continuous TX mode (GFSK modulation), and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH19	2440
	1	High: CH39	2480

2.6. Test Facility

Site Description

Name of Firm

Audix Technology (Shenzhen) Co., Ltd.
: No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab.

Certificated by Industry Canada
: Registration Number: IC 5183A-1
Valid Date: Mar.31, 2022

Accredited by NVLAP, USA
: NVLAP Code: 200372-0
Valid Date: Mar.31, 2022

Certificated by FCC USA.
: Designation No.: CN5022
Valid Date: Mar.31, 2022

2.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.6dB(30~200MHz, Polarization: H)
	4.0dB(30~200MHz, Polarization: V)
	3.6dB(200M~1GHz, Polarization: H)
	3.8dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	4.6dB(1~6GHz, Distance: 3m)
	4.6dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.7dB(30MHz~1000MHz)
	3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	0.1%
Uncertainty for test site temperature and humidity	0.6℃
	3%

Note: EMI uncertainty is evaluated by CISPR16-4-2.

The value of measurement uncertainty of EMI is less than U_{CISPR} .

The value is not calculated in the test results.

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (c) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(NSA)	AUDIX	N/A	N/A	May.03,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.12,20	1 Year
5.	Amplifier	HP	8447D	2648A04738	Apr.11,20	1 Year
6.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	710	Oct.19,20	1 Year
7.	Loop Antenna	Chase	HLA6120	1062	Apr.29,20	1 Year
8.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.11,20	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.11,20	1 Year
10.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

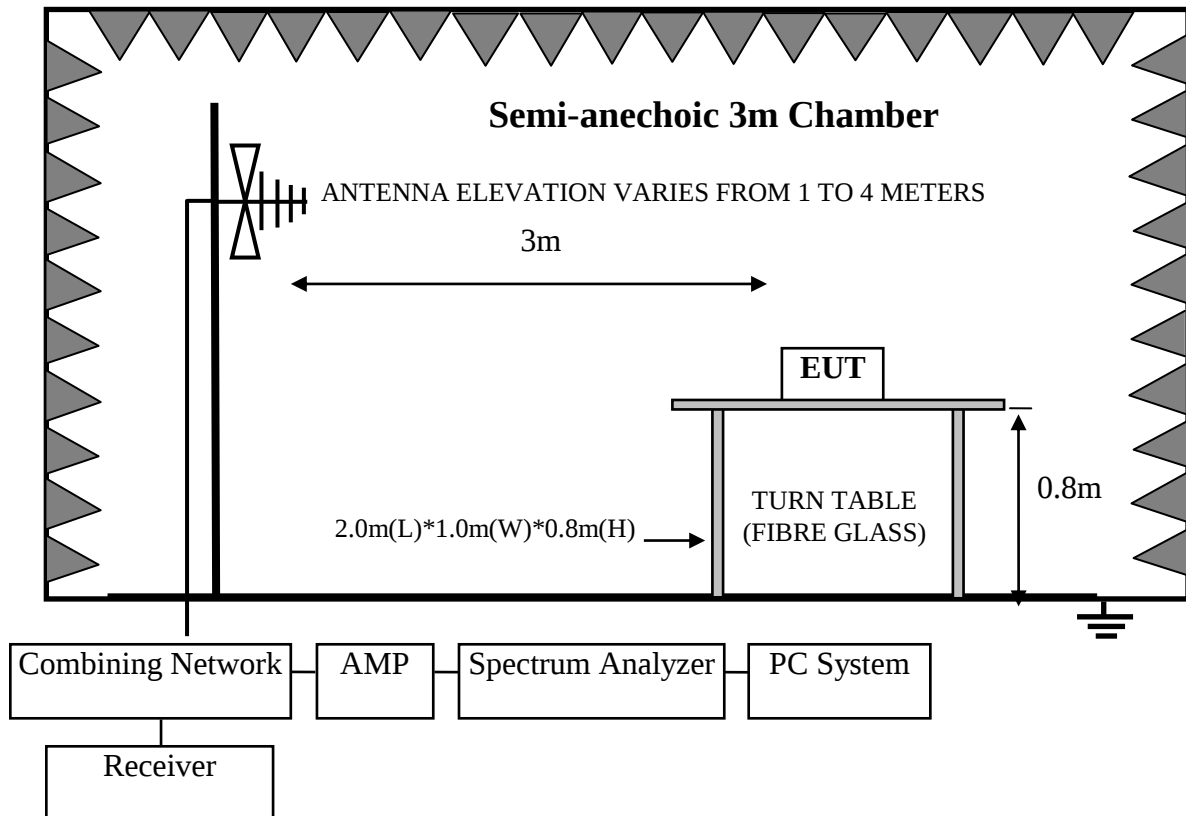
Note: N/A means Not applicable.

Frequency range: above 1000MHz

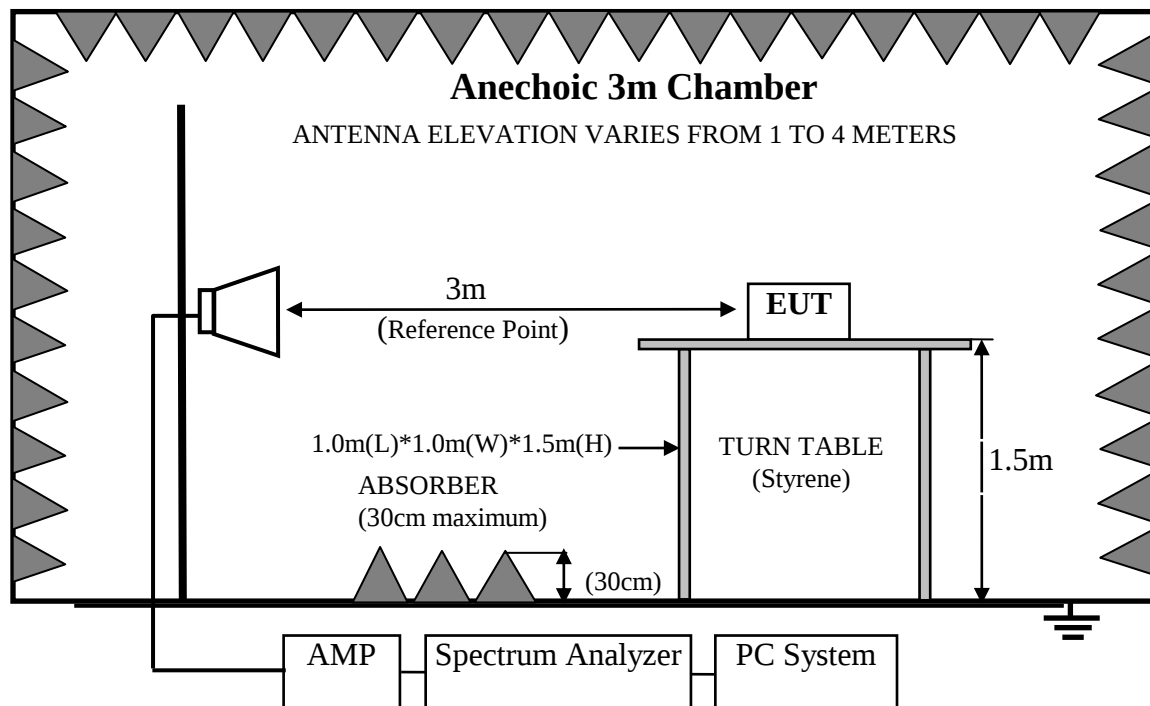
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Chamber(Svswr)	AUDIX	N/A	N/A	Apr.16,20	1 Year
2.	RF Chamber(SE)	AUDIX	N/A	N/A	Apr.16,19	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104051	Apr.12,20	1 Year
4.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
5.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.30,20	1 Year
6.	Horn Antenna	ETS	3116	00060089	Dec.09,20	1 Year
7.	Amplifier	HP	8449B	3008A00863	Apr.11,20	1 Year
8.	Amplifier	EMCI	EMC184040SE	980507	Apr.12,20	1 Year
9.	RF Cable	EMCI	EMC102-KM-KM-3500	170702	Apr.12,20	1 Year
10.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Bluetooth Remote Control (EUT)

Model Number : RC605

Serial Number : N/A

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in BLE Tx mode.

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

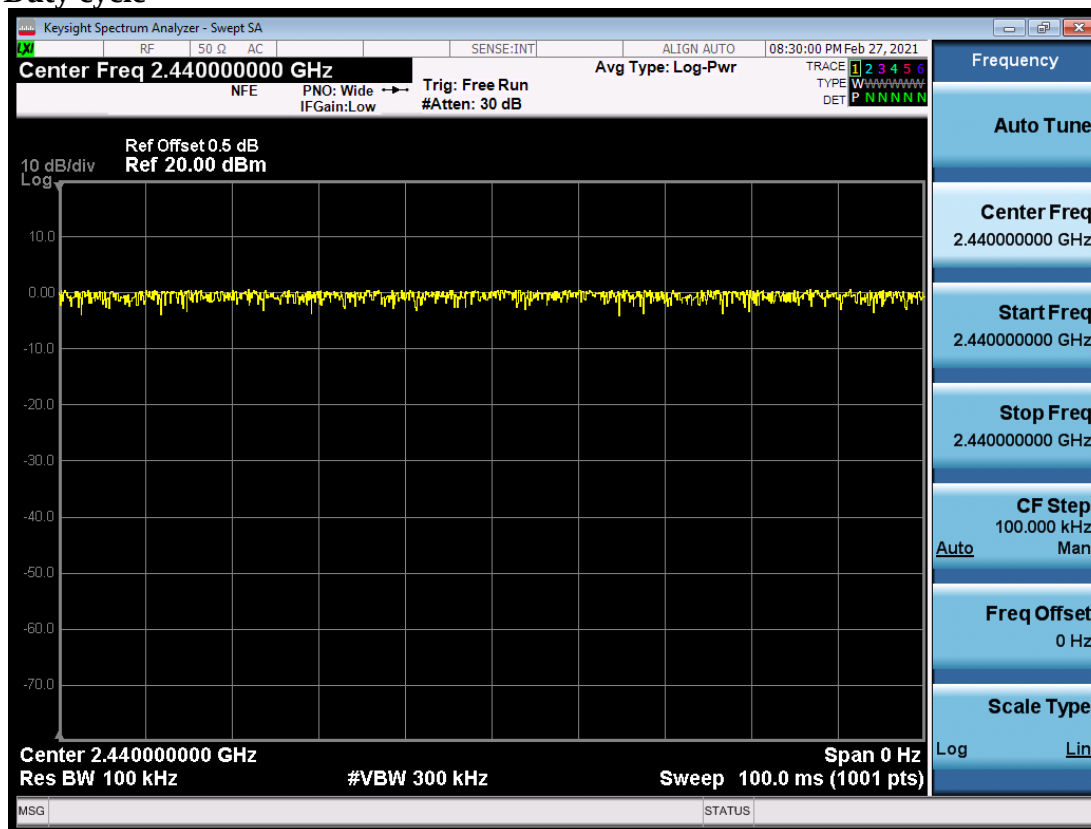
PASS.

All the emissions from 9kHz to 25GHz were comply with the 15.209 Limit.

Note 1: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Duty cycle



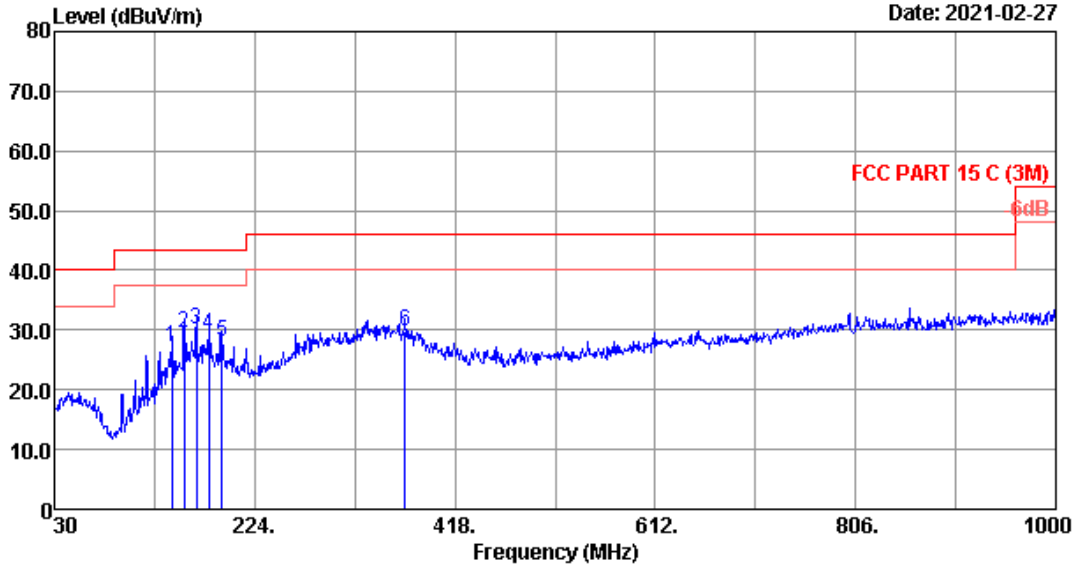
Note: The duty cycle of the test signal is 100%.

Frequency: 30MHz~1GHz

Data: 2

File: E:\2021 Report Data\峰米科技\A1Z2101188-RF.EM6 (2)

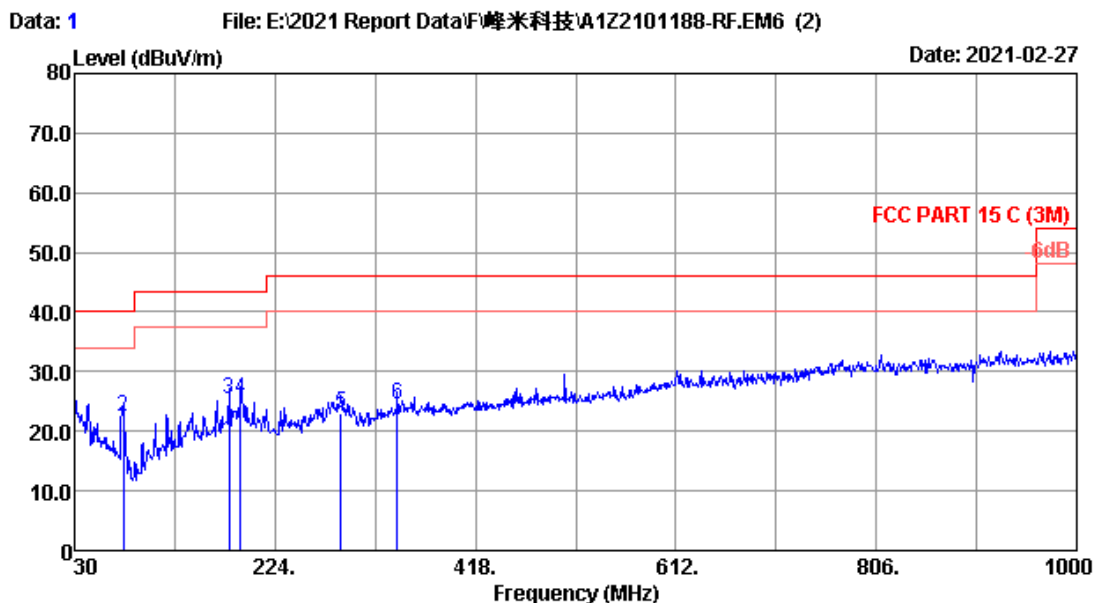
Date: 2021-02-27



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2020 VULB9168-710 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.6°C/52% Engineer : Hogrn
 EUT : Bluetooth Remote Control M/N:RC605
 Power rating : DC 3V
 Test Mode : BT TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	143.490	19.00	1.20	6.85	27.05	43.50	16.45	QP
2	156.100	19.20	1.26	8.93	29.39	43.50	14.11	QP
3	167.740	18.80	1.32	10.11	30.23	43.50	13.27	QP
4	179.380	17.60	1.38	10.16	29.14	43.50	14.36	QP
5	191.990	16.20	1.45	10.27	27.92	43.50	15.58	QP
6	369.500	20.48	1.94	7.39	29.81	46.00	16.19	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

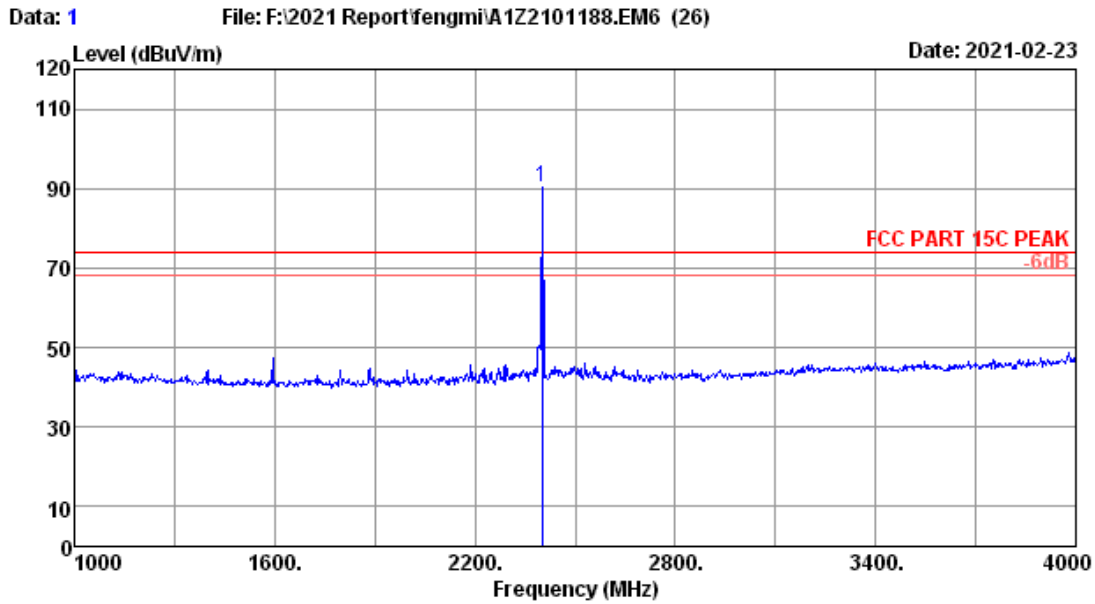


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2020 VULB9168-710 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.6°C/52% Engineer : Hogrn
 EUT : Bluetooth Remote Control M/N:RC605
 Power rating : DC 3V
 Test Mode : BT TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	18.30	0.63	6.50	25.43	40.00	14.57	QP
2	77.530	15.20	0.83	6.26	22.29	40.00	17.71	QP
3	179.380	17.60	1.38	6.29	25.27	43.50	18.23	QP
4	191.020	16.30	1.44	7.73	25.47	43.50	18.03	QP
5	288.020	18.82	1.70	2.48	23.00	46.00	23.00	QP
6	342.340	19.90	1.86	2.78	24.54	46.00	21.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

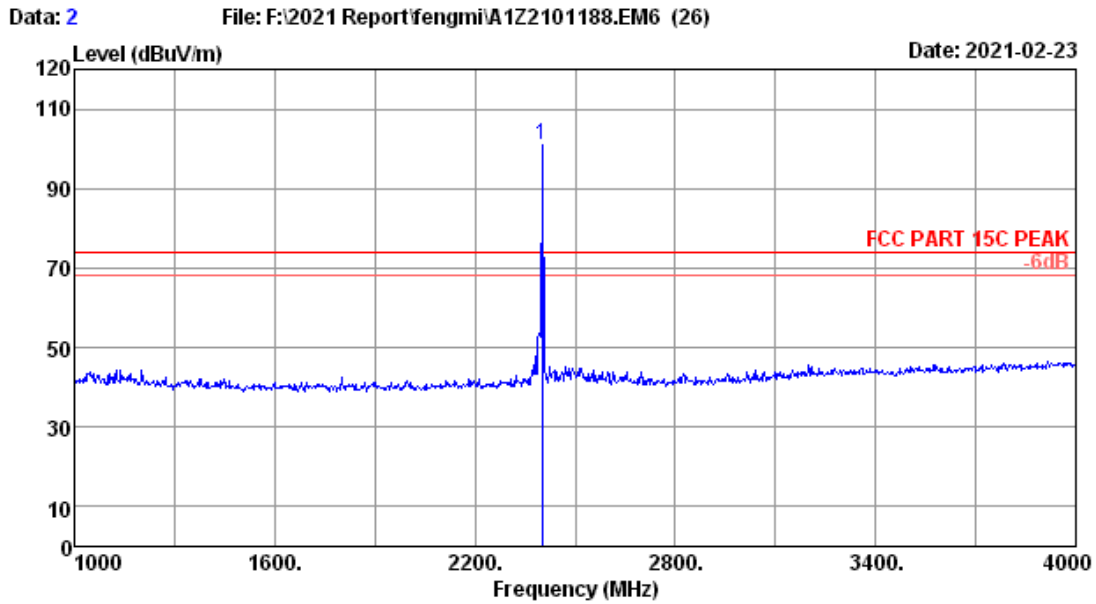
Frequency: 1GHz~18GHz



Site no. : RF Chamber Data no. : 1
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.01	5.98	89.83	33.48	90.34	-----	-----	Peak

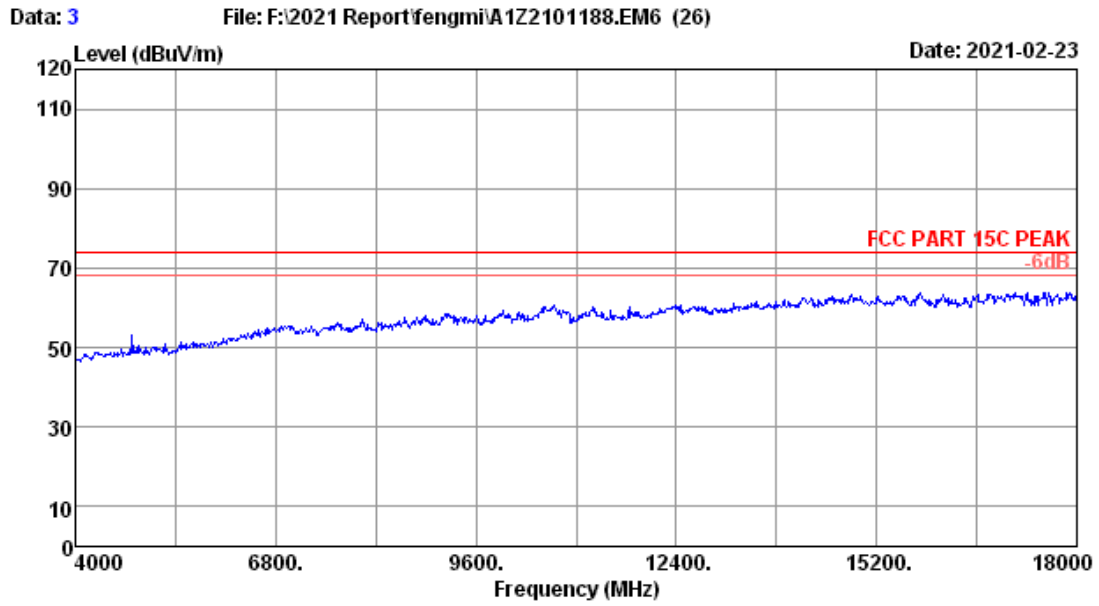
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



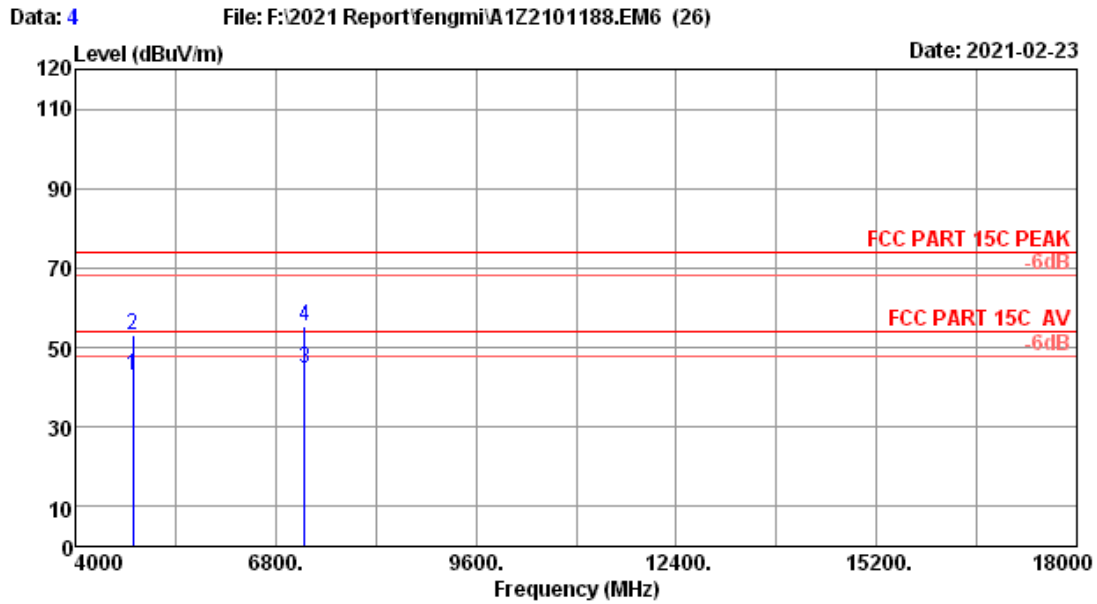
Site no. : RF Chamber Data no. : 2
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2402.00	28.01	5.98	100.66	33.48	101.17	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



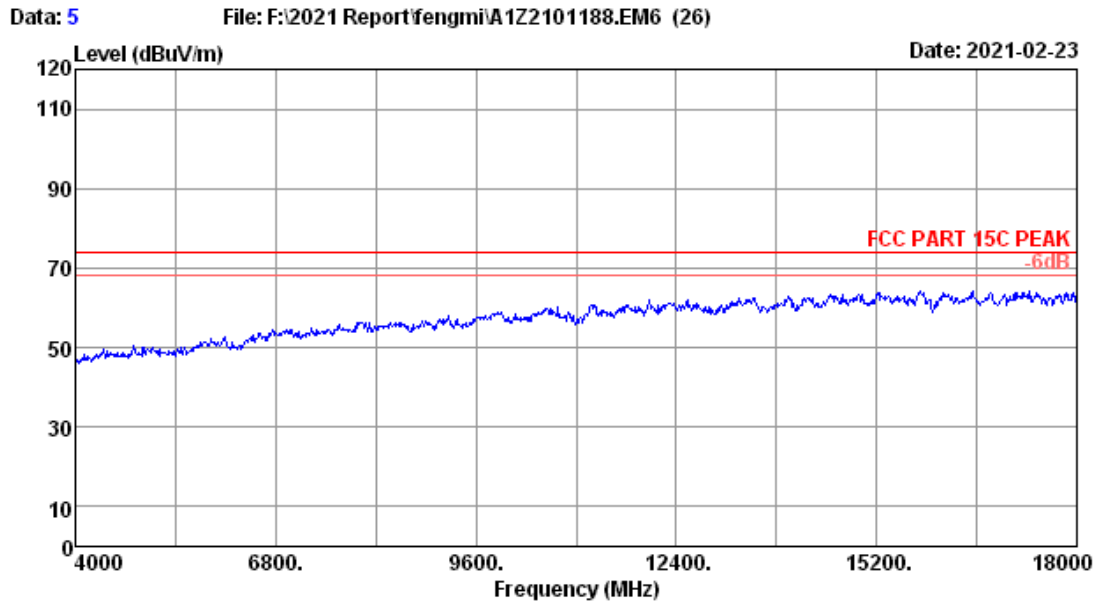
Site no.	: RF Chamber	Data no.	: 3
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2402MHz Tx Mode		



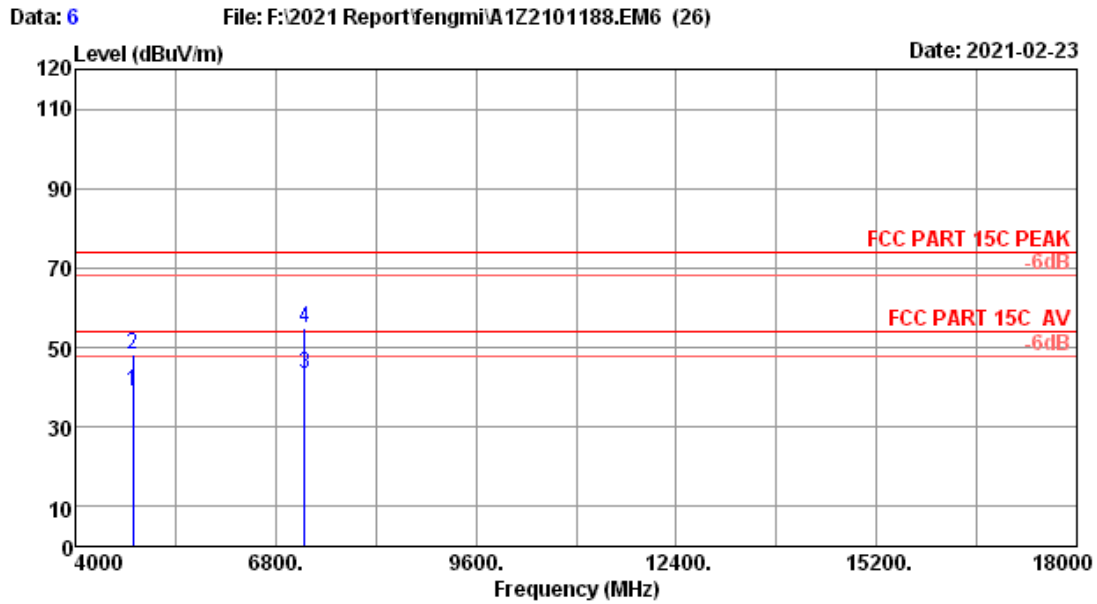
Site no. : RF Chamber Data no. : 4
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4804.00	32.61	7.40	36.19	33.18	43.02	54.00	10.98	Average
2	4804.00	32.61	7.40	46.36	33.18	53.19	74.00	20.81	Peak
3	7206.00	36.50	8.79	32.27	33.02	44.54	54.00	9.46	Average
4	7206.00	36.50	8.79	42.88	33.02	55.15	74.00	18.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



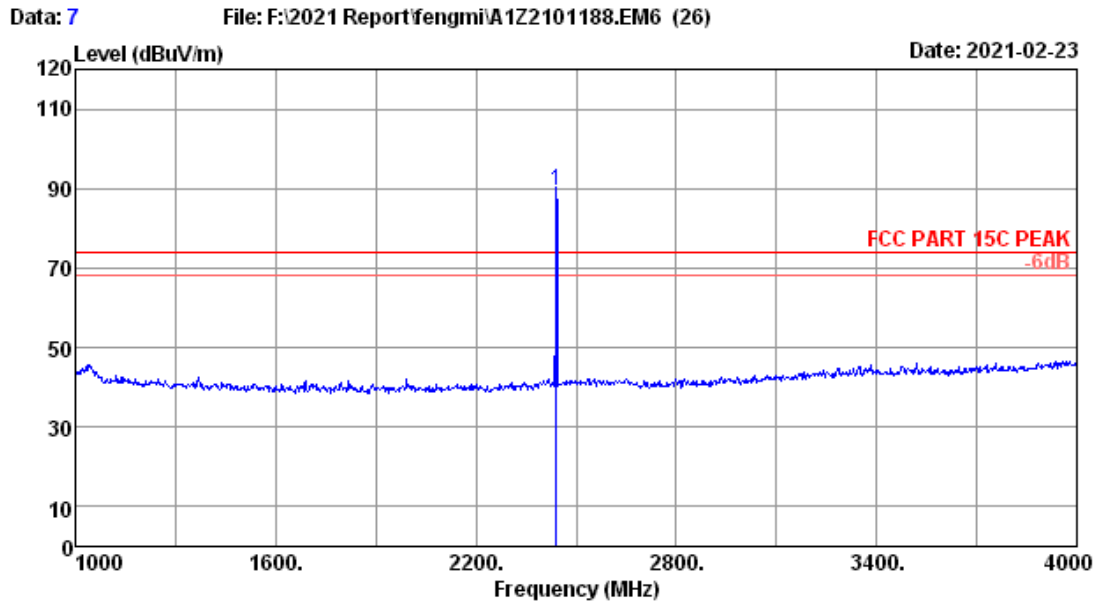
Site no.	: RF Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2402MHz Tx Mode		



Site no. : RF Chamber Data no. : 6
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4804.00	32.61	7.40	32.26	33.18	39.09	54.00	14.91	Average
2	4804.00	32.61	7.40	41.35	33.18	48.18	74.00	25.82	Peak
3	7206.00	36.50	8.79	31.22	33.02	43.49	54.00	10.51	Average
4	7206.00	36.50	8.79	42.78	33.02	55.05	74.00	18.95	Peak

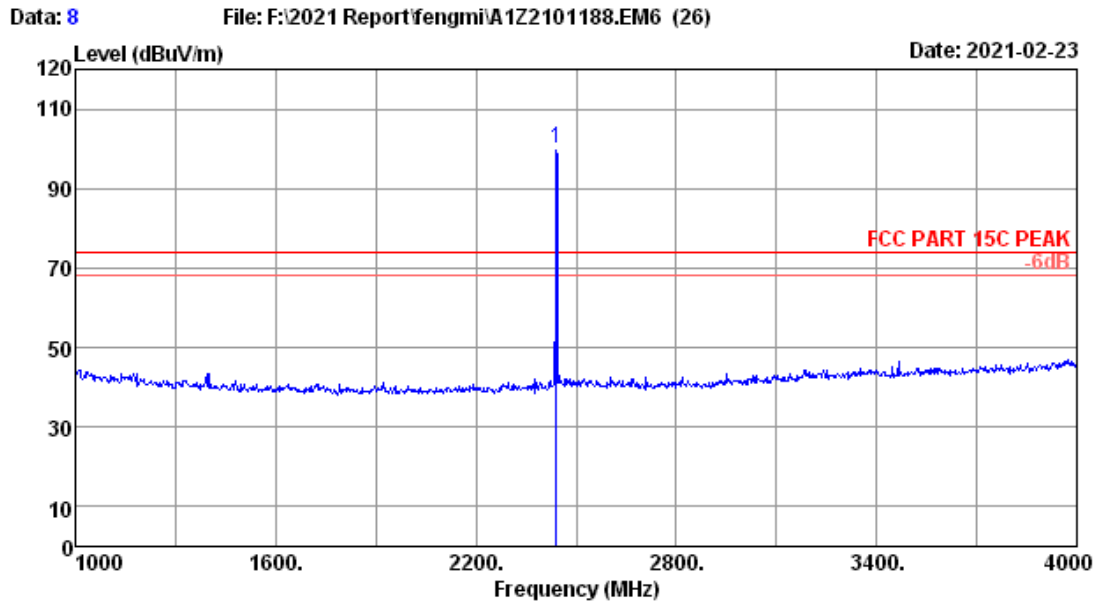
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 7
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2440.00	28.11	6.01	88.71	33.47	89.36	-----	-----	Peak

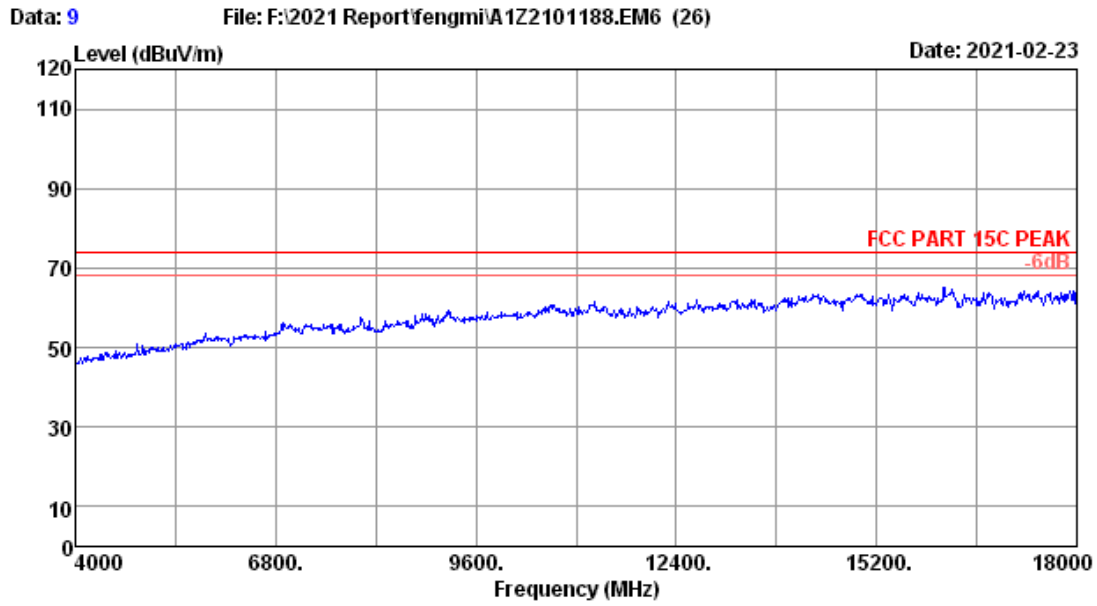
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



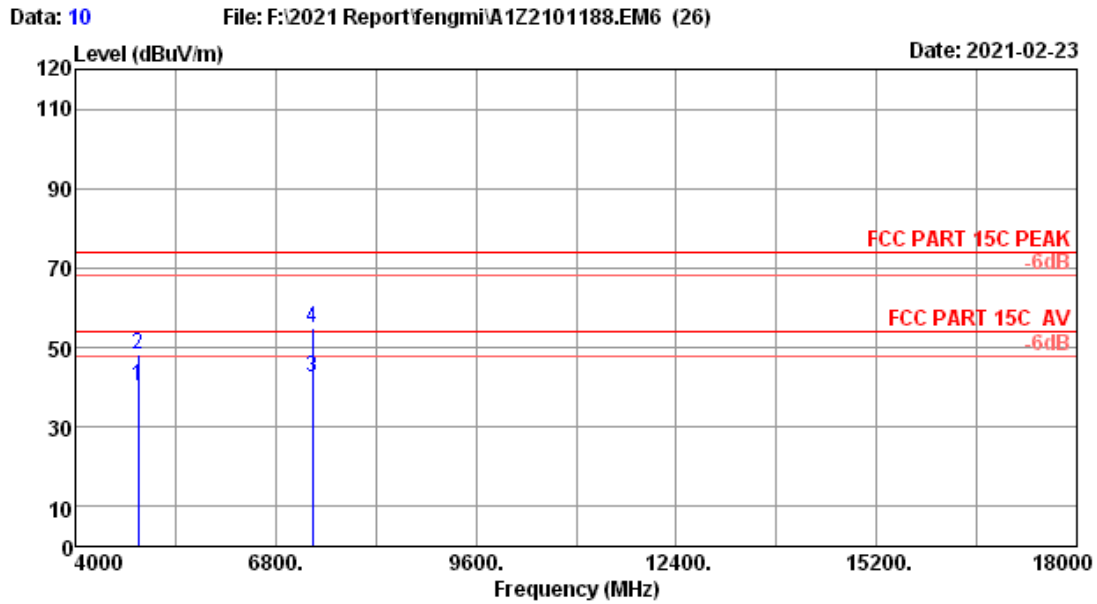
Site no. : RF Chamber Data no. : 8
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2440.00	28.11	6.01	99.58	33.47	100.23	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



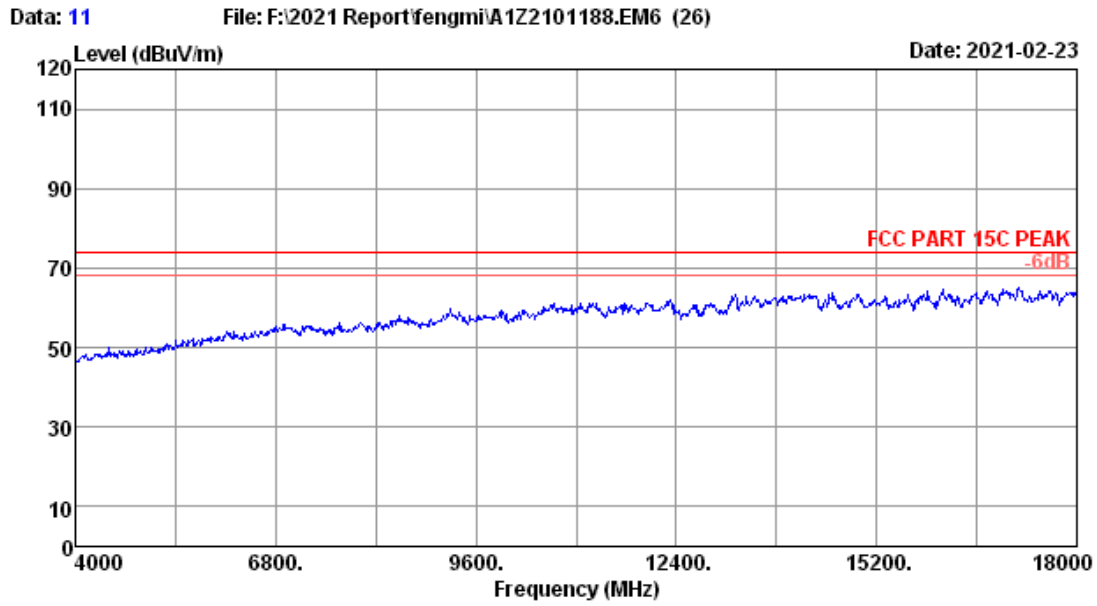
Site no.	: RF Chamber	Data no.	: 9
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2440MHz Tx Mode		



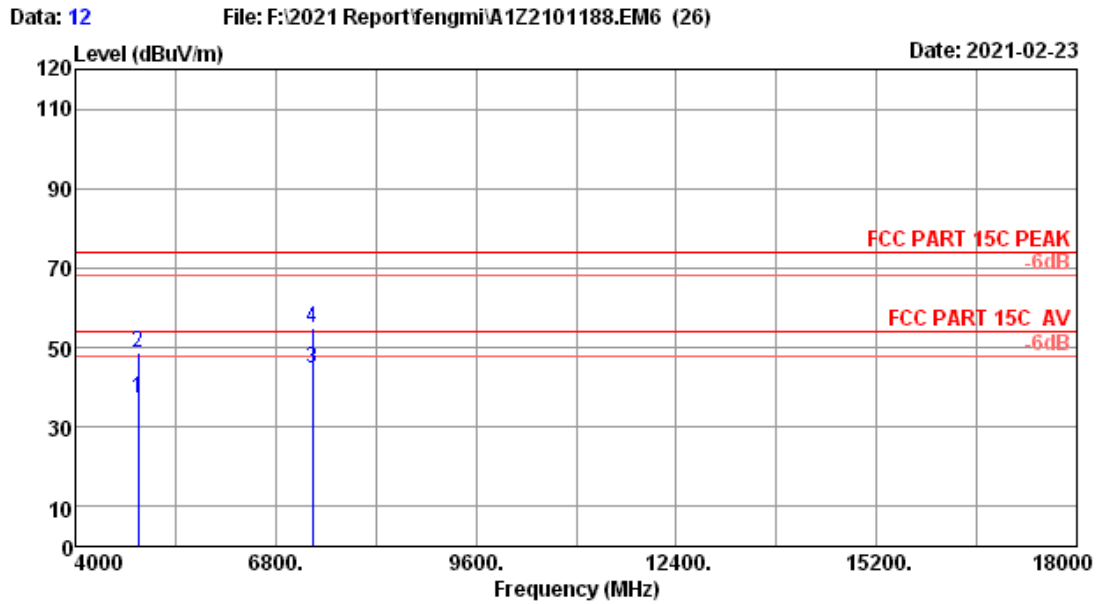
Site no. : RF Chamber Data no. : 10
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	32.68	7.44	33.57	33.19	40.50	54.00	13.50	Average
2	4880.00	32.68	7.44	41.34	33.19	48.27	74.00	25.73	Peak
3	7320.00	36.50	8.86	30.27	33.03	42.60	54.00	11.40	Average
4	7320.00	36.50	8.86	42.79	33.03	55.12	74.00	18.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



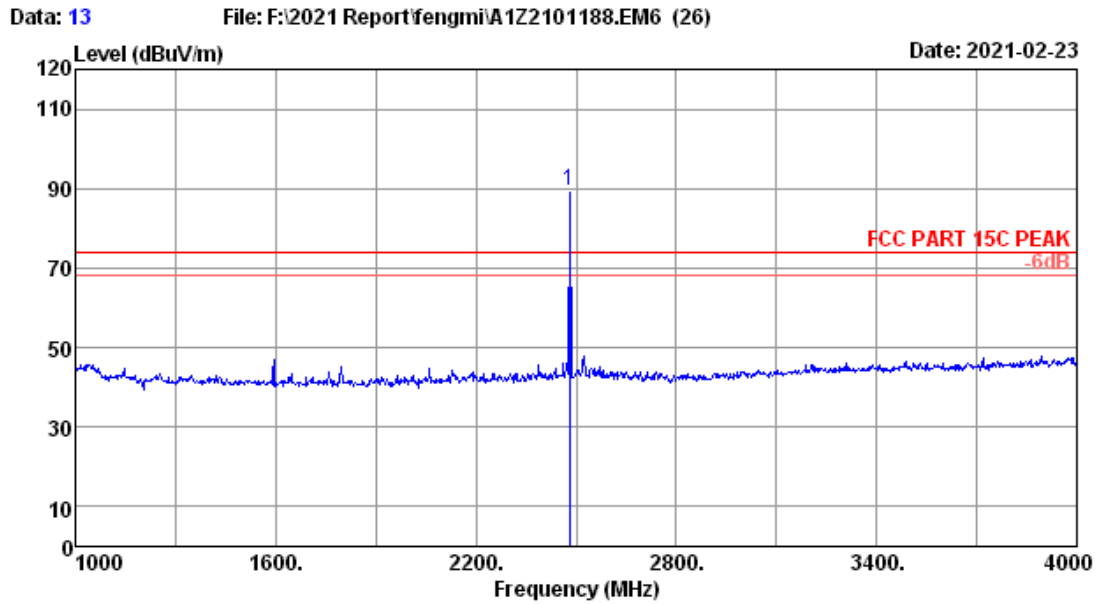
Site no.	: RF Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2440MHz Tx Mode		



Site no. : RF Chamber Data no. : 12
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4880.00	32.68	7.44	30.27	33.19	37.20	54.00	16.80	Average
2	4880.00	32.68	7.44	41.82	33.19	48.75	74.00	25.25	Peak
3	7320.00	36.50	8.86	32.27	33.03	44.60	54.00	9.40	Average
4	7320.00	36.50	8.86	42.41	33.03	54.74	74.00	19.26	Peak

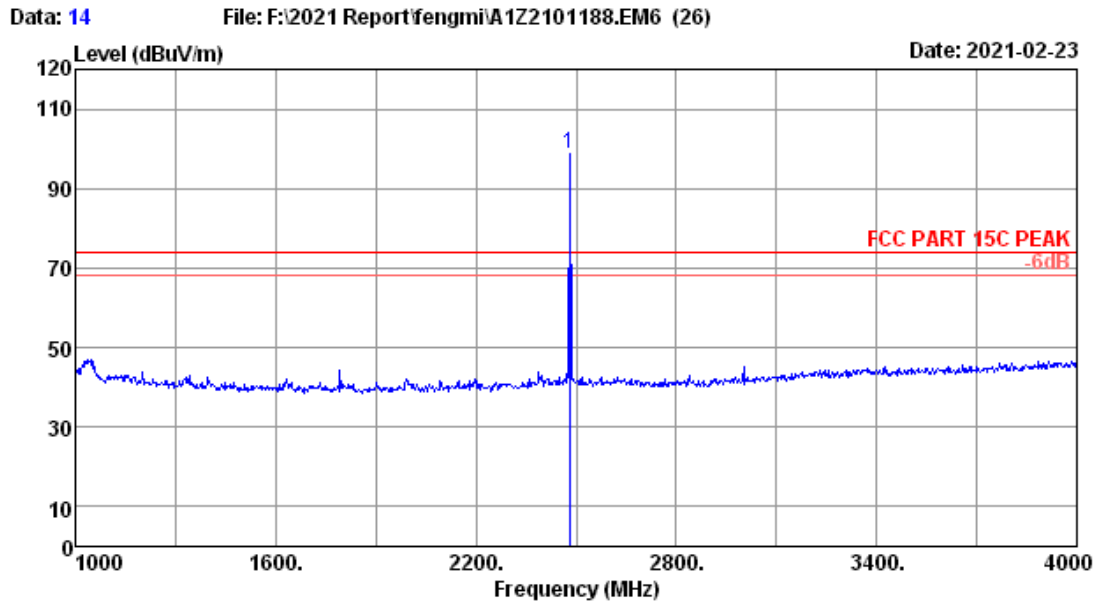
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no.	: RF Chamber	Data no.	: 13
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2480MHz Tx Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Amp factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	88.64	33.46	89.38	-----	-----	Peak

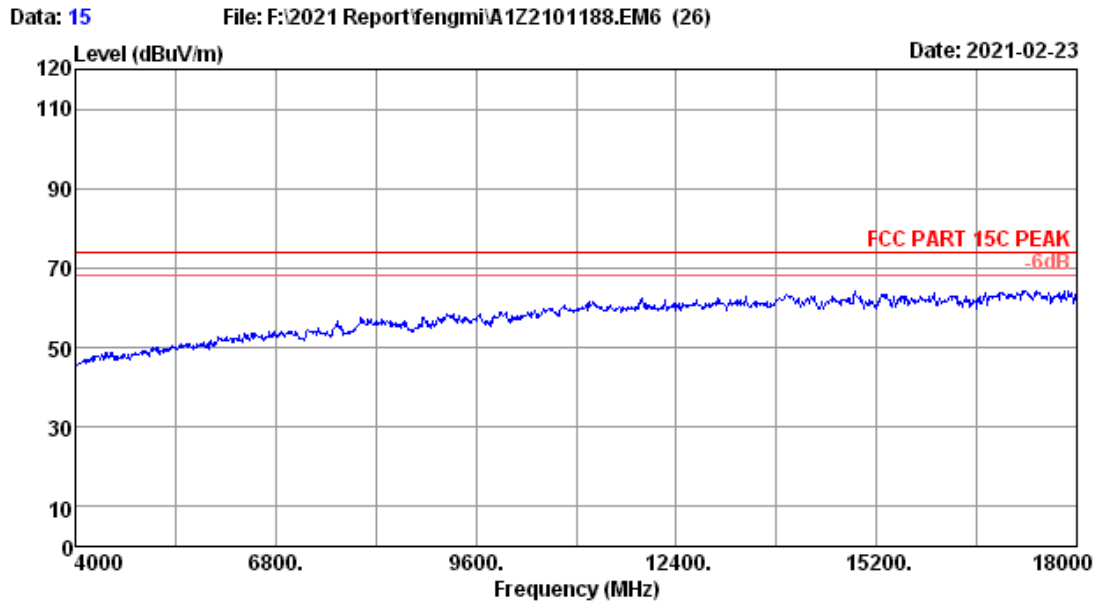
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



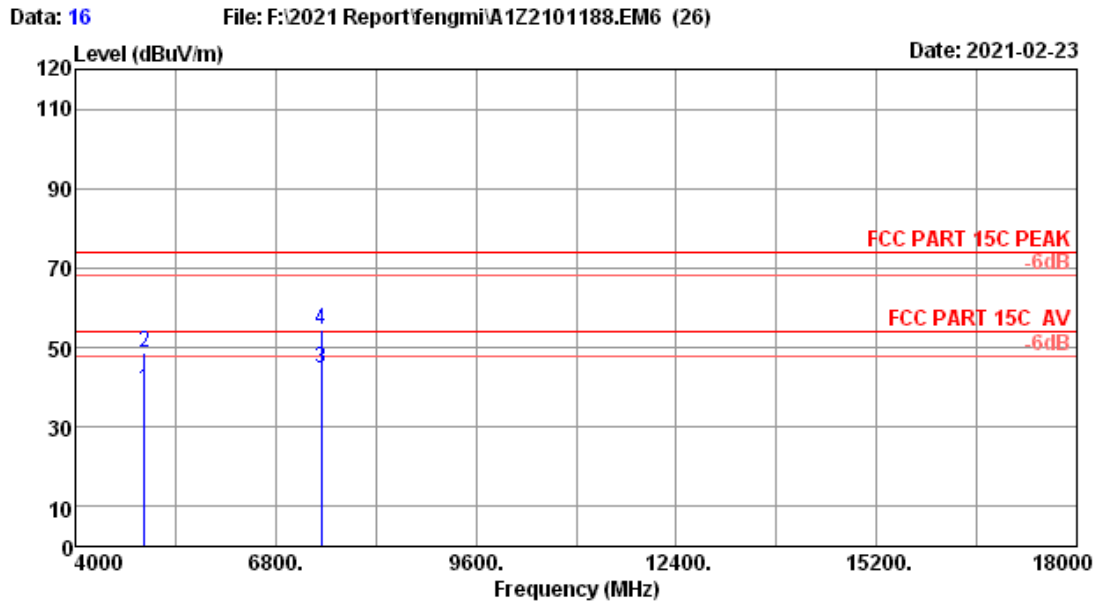
Site no. : RF Chamber Data no. : 14
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	98.10	33.46	98.84	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



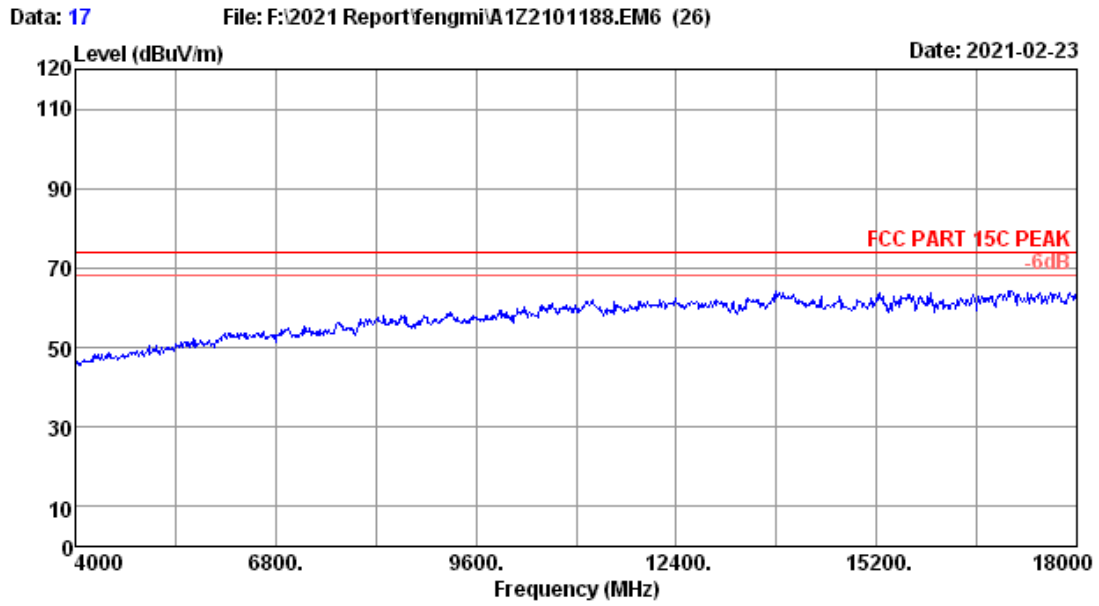
Site no.	: RF Chamber	Data no.	: 15
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2480MHz Tx Mode		



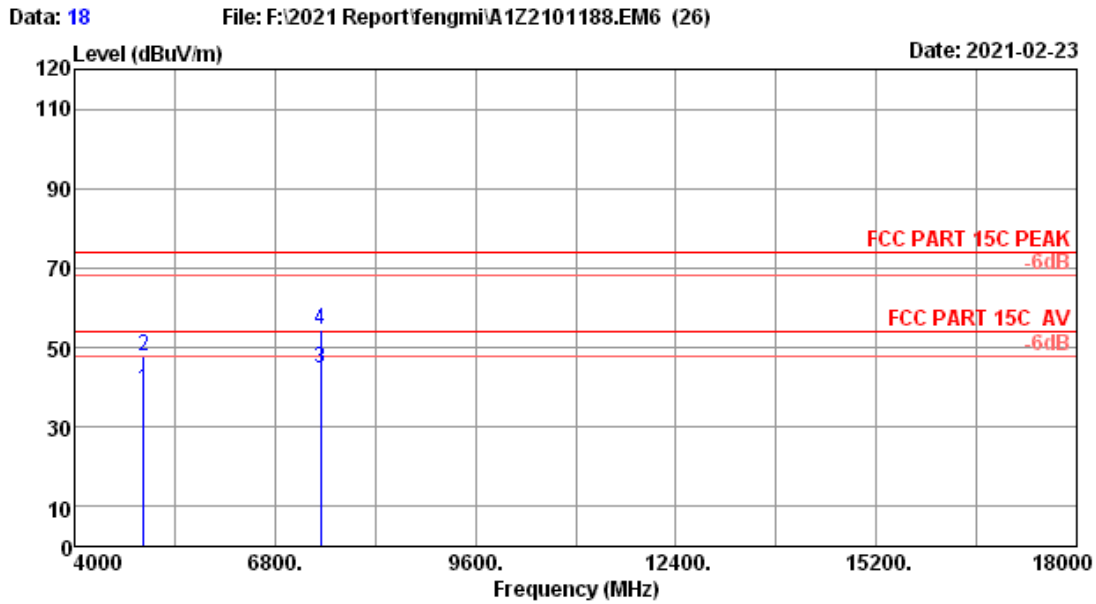
Site no. : RF Chamber Data no. : 16
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	7.49	32.47	33.20	39.53	54.00	14.47	Average
2	4960.00	32.77	7.49	41.57	33.20	48.63	74.00	25.37	Peak
3	7440.00	36.50	8.93	32.44	33.04	44.83	54.00	9.17	Average
4	7440.00	36.50	8.93	42.05	33.04	54.44	74.00	19.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no.	: RF Chamber	Data no.	: 17
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2480MHz Tx Mode		



Site no. : RF Chamber Data no. : 18
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	7.49	32.47	33.20	39.53	54.00	14.47	Average
2	4960.00	32.77	7.49	40.59	33.20	47.65	74.00	26.35	Peak
3	7440.00	36.50	8.93	32.45	33.04	44.84	54.00	9.16	Average
4	7440.00	36.50	8.93	42.07	33.04	54.46	74.00	19.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

5.2. Block Diagram of Test Setup

Please reference to section 2.4.

5.3. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.4. Test Procedure

Use the test method described in ANSI C63.10:

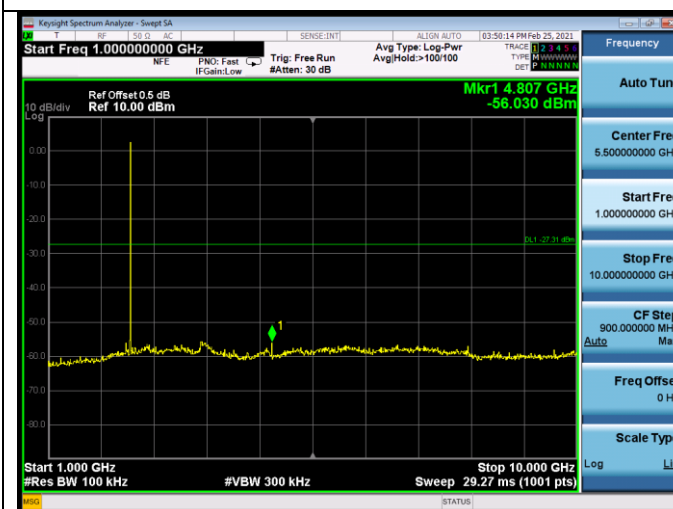
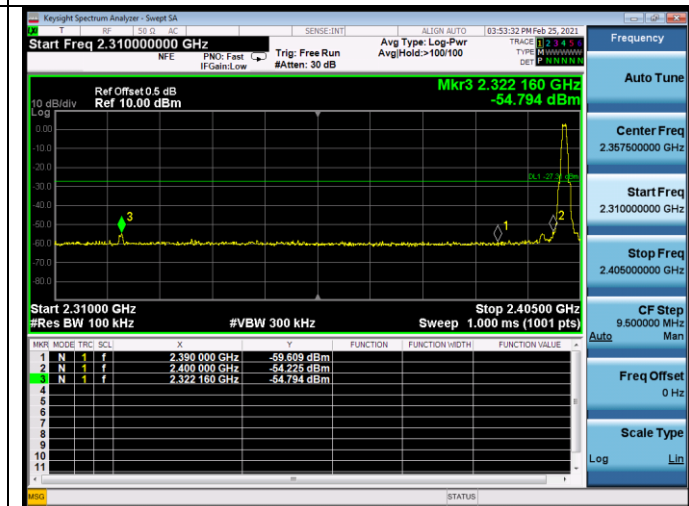
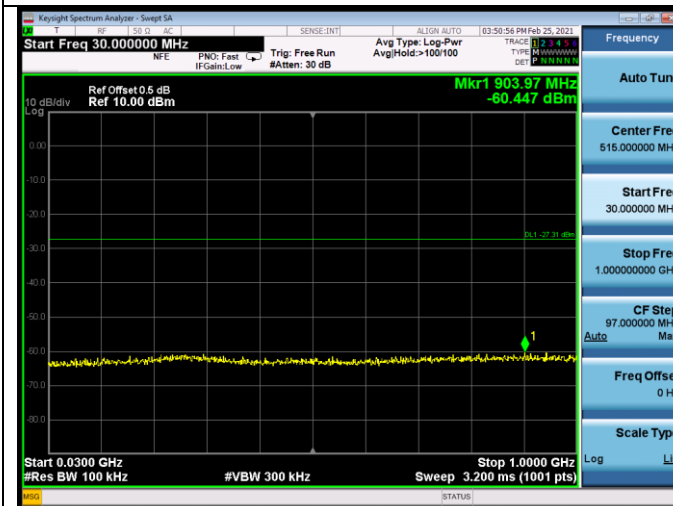
The transmitter output was connected to a spectrum analyzer, the resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

5.5. Test result

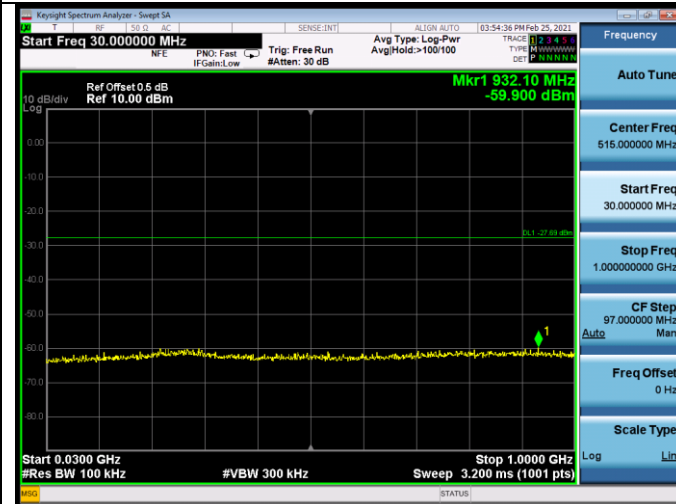
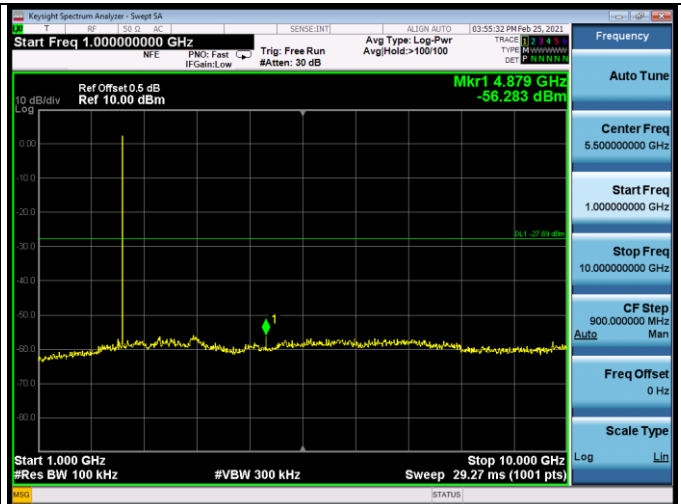
PASS (The testing data was attached in the next pages.)

EUT: Bluetooth Remote Control		
M/N: RC605		
Test date: 2021-02-25	Pressure: 102.1 ±1.0 kpa	Humidity: 51.1 ±3.0%
Tested by: Thomax	Test site: RF site	Temperature: 22.8 ±0.6 °C

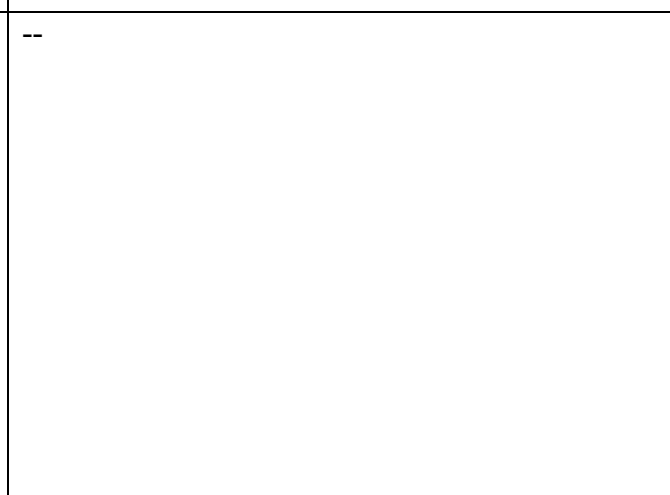
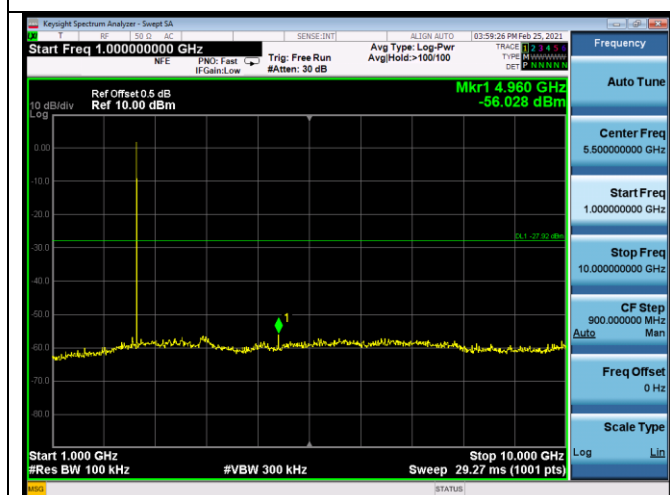
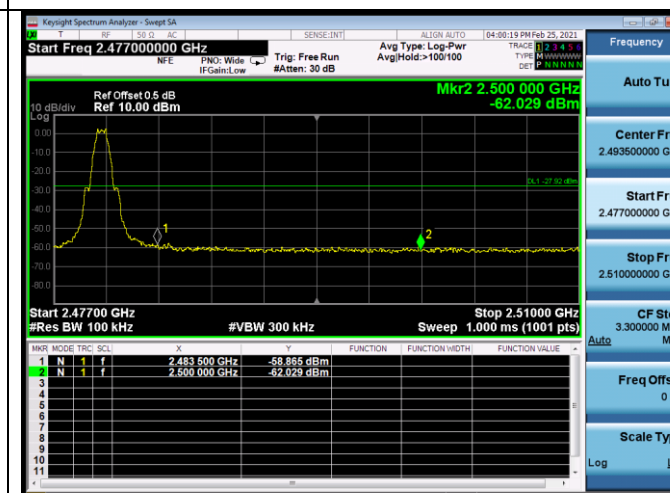
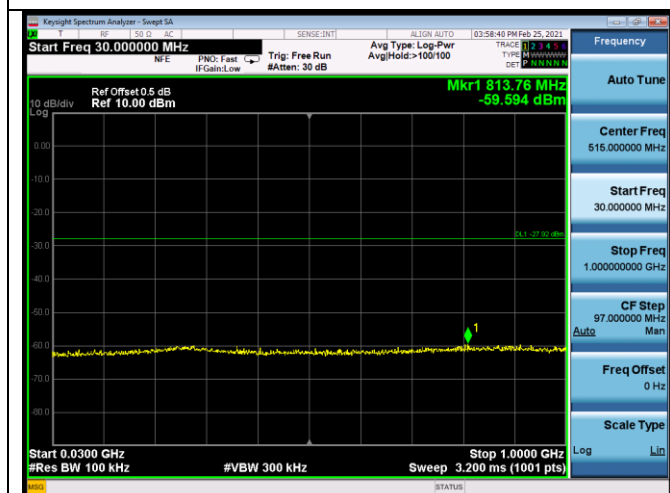
GFSK 2402MHz



2440MHz



2480MHz



6. 6DB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

6.2. Block Diagram of Test Setup

Please reference to section 2.4.

6.3. Limit

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

6.4. Test Procedure

Use the test method described in ANSI C63.10 clause 11.8.2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

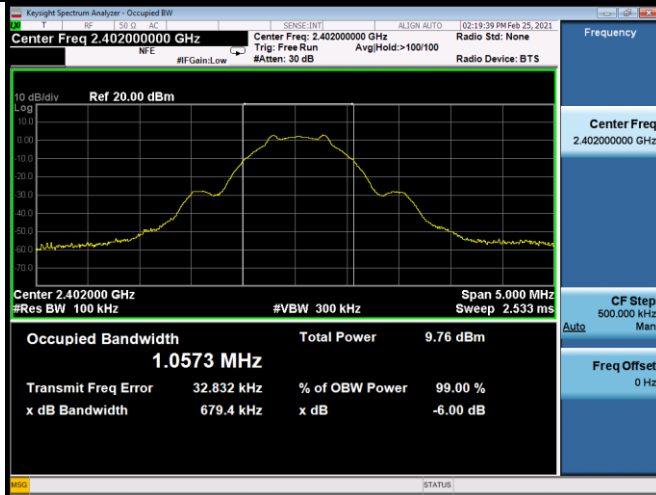
6.5. Test Results

EUT: Bluetooth Remote Control		
M/N: RC605		
Test date: 2021-02-25	Pressure: 102.5 $\pm$ 1.0 kpa	Humidity: 51.3 $\pm$ 3.0%
Tested by: Thomax	Test site: RF site	Temperature: 22.5 $\pm$ 0.6 °C

Test Mode	Frequency (MHz)	6 dB bandwidth (kHz)	Limit (KHz)
GFSK	2402	679.4	≥ 500
	2440	674.1	≥ 500
	2480	676.2	≥ 500

Conclusion : PASS

2402MHz



2480MHz



2440MHz



--

--

7. MAXIMUM PEAK OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.11,20	1 Year
3.	Power sensor	Anritsu	MA2491A	033005	Apr.11,20	1 Year
4.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
5.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

7.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm).

7.3. Test Procedure

Use the test method descried in ANSI C63.10 clause 11.9.1.3:

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

7.4. Test Results

EUT: Bluetooth Remote Control		
M/N: RC605		
Test Date:2021-2-25	Pressure: 102.5±1.0 kpa	Humidity: 51.3±3.0%
Tested By: THOMAX	Test site: RF site	Temperature:22.5±0.6 °C

Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	2.920	30
	2440	2.527	30
	2480	2.322	30
Conclusion: PASS			

8. BAND EDGE COMPLIANCE TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.11,20	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.30,20	1 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

8.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Produce

Use the test method described in ANSI C63.10 clause 6.10:

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

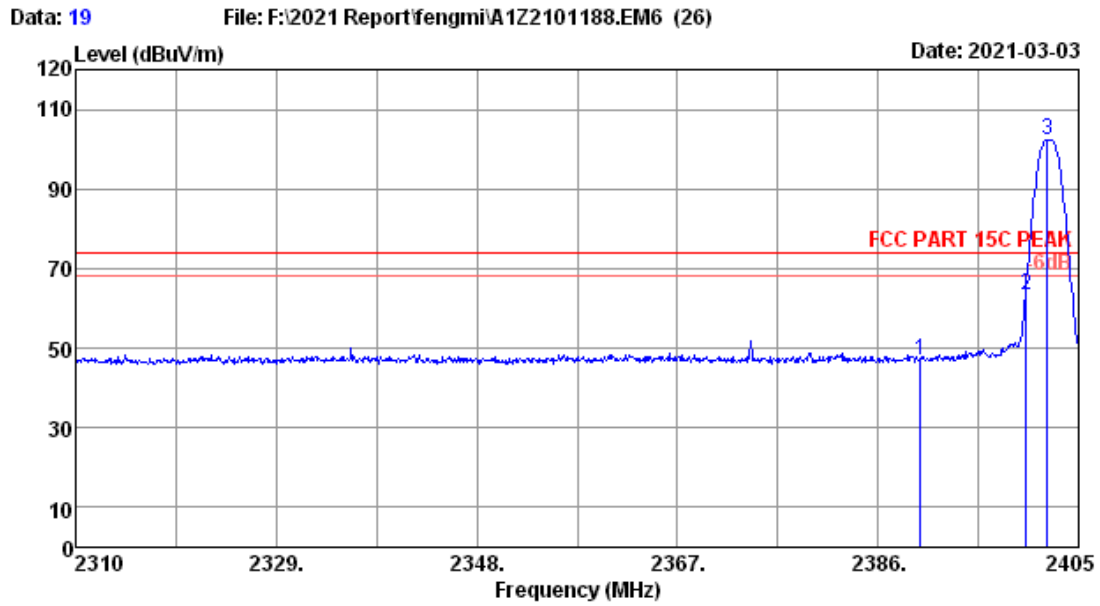
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) Average: RBW=1MHz, VBW=10Hz

8.4. Test Results

Pass (The testing data was attached in the next pages.)

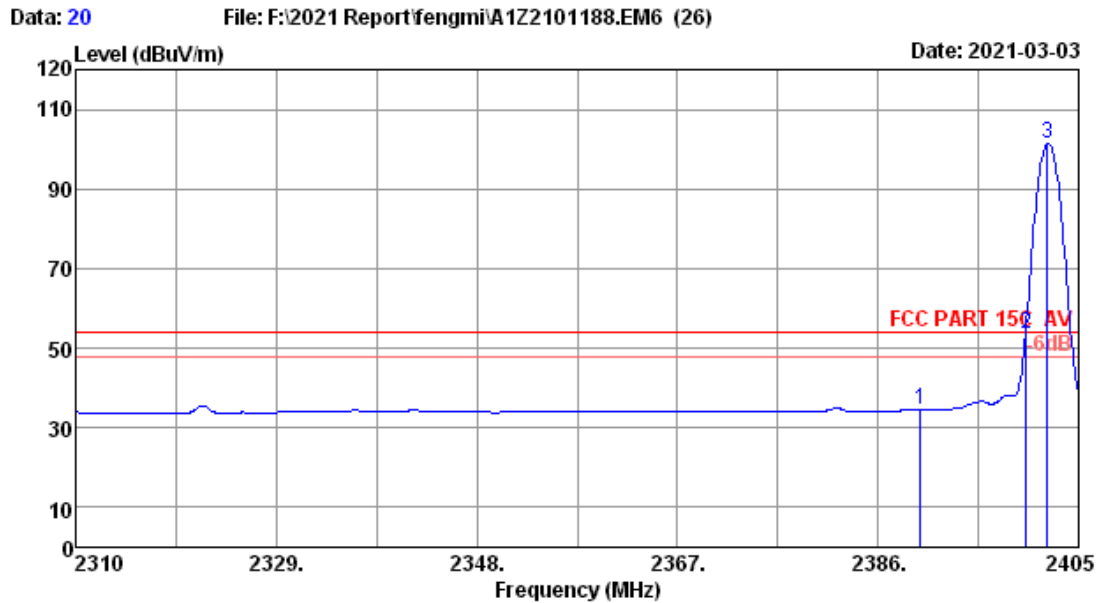
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : RF Chamber Data no. : 19
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	5.98	46.22	33.48	46.73	74.00	27.27	Peak
2	2400.00	28.01	5.98	63.03	33.48	63.54	74.00	10.46	Peak
3	2402.00	28.01	5.98	101.74	33.48	102.25	74.00	-28.25	Peak

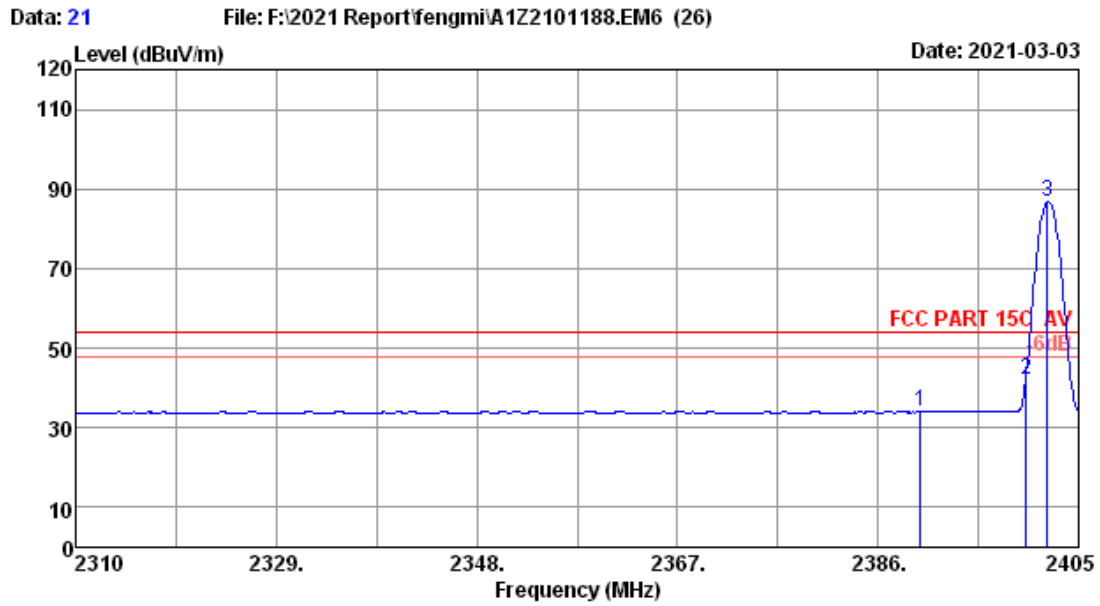
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 20
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	5.98	33.87	33.48	34.38	54.00	19.62	Average
2	2400.00	28.01	5.98	52.87	33.48	53.38	54.00	0.62	Average
3	2402.00	28.01	5.98	100.85	33.48	101.36	54.00	-47.36	Average

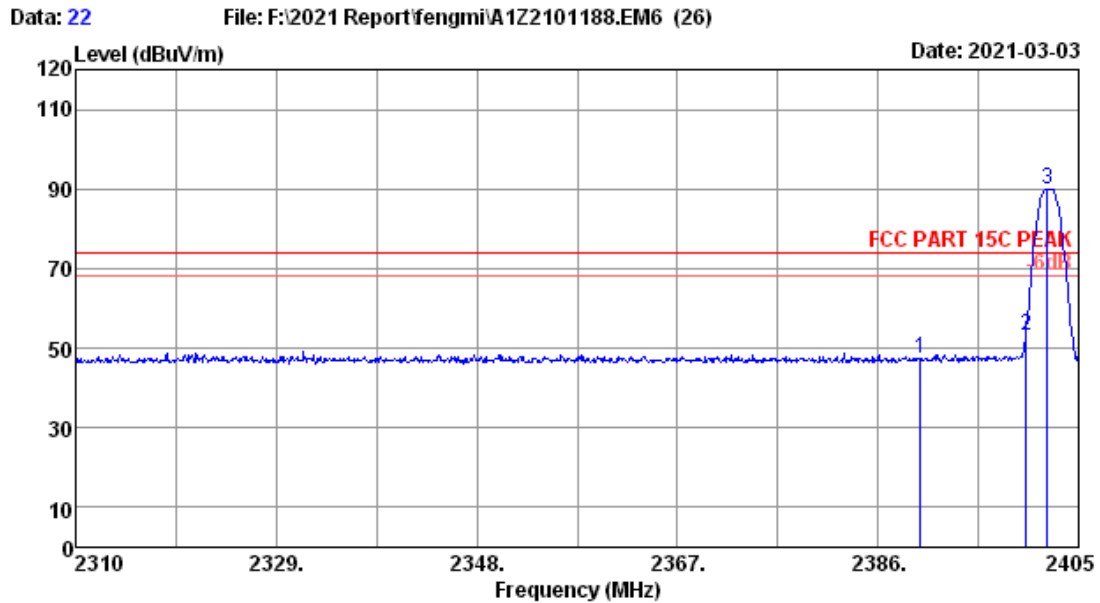
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 21
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	5.98	33.37	33.48	33.88	54.00	20.12	Average
2	2400.00	28.01	5.98	41.39	33.48	41.90	54.00	12.10	Average
3	2402.00	28.01	5.98	86.32	33.48	86.83	54.00	-32.83	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

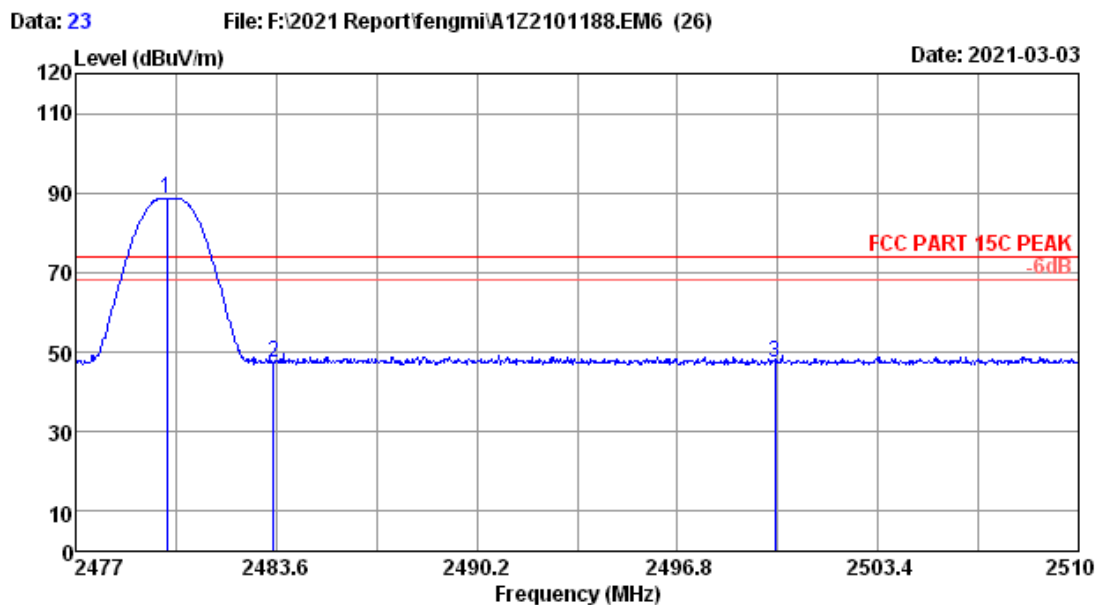


Site no.	: RF Chamber	Data no.	: 22
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Pressure	: 101.7kPa
Env. / Ins.	: 23.4°C/52.9%	Engineer	: THOMAX
Power rating	: DC 3V		
Test Mode	: BLE 2402MHz Tx Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	5.98	46.91	33.48	47.42	74.00	26.58	Peak
2	2400.00	28.01	5.98	52.51	33.48	53.02	74.00	20.98	Peak
3	2402.00	28.01	5.98	89.58	33.48	90.09	74.00	-16.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.

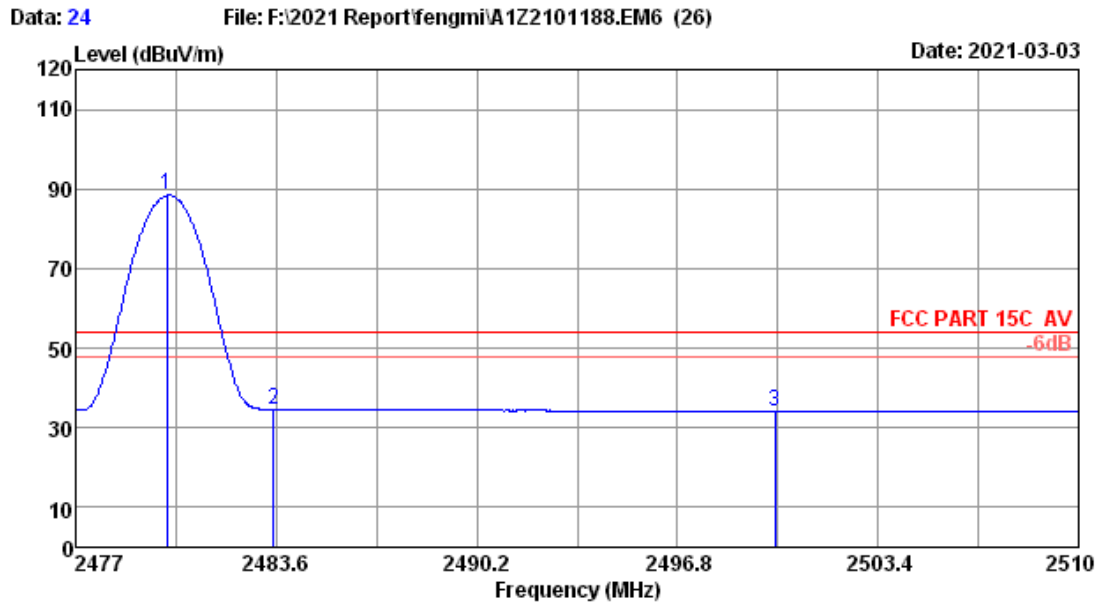
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : RF Chamber Data no. : 23
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	87.94	33.46	88.68	74.00	-14.68	Peak
2	2483.50	28.17	6.03	46.69	33.46	47.43	74.00	26.57	Peak
3	2500.00	28.20	6.04	46.64	33.45	47.43	74.00	26.57	Peak

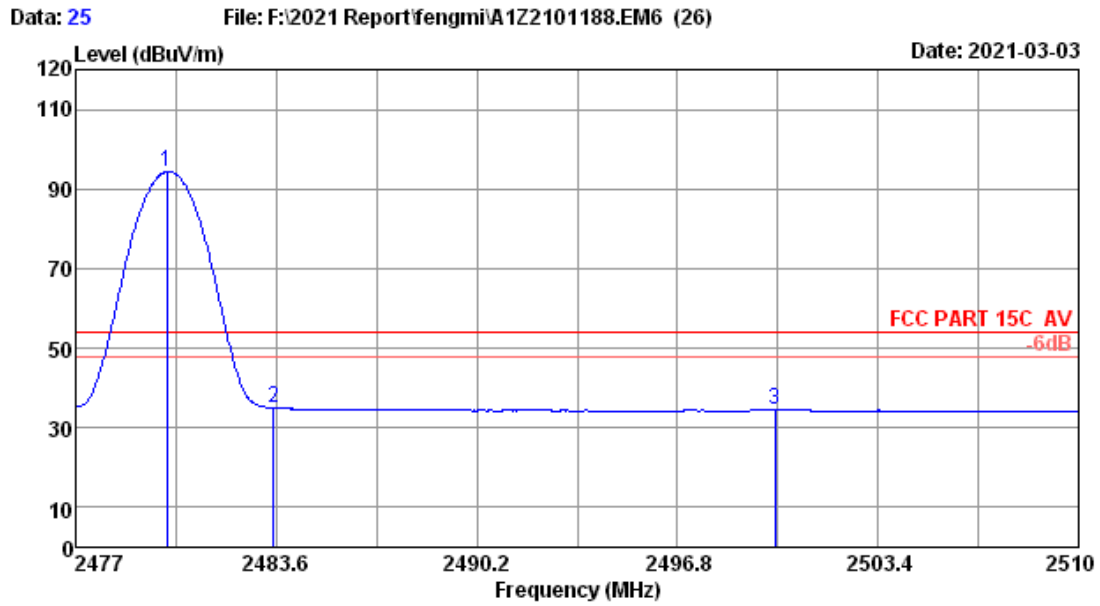
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 24
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	87.66	33.46	88.40	54.00	-34.40	Average
2	2483.50	28.17	6.03	33.75	33.46	34.49	54.00	19.51	Average
3	2500.00	28.20	6.04	33.42	33.45	34.21	54.00	19.79	Average

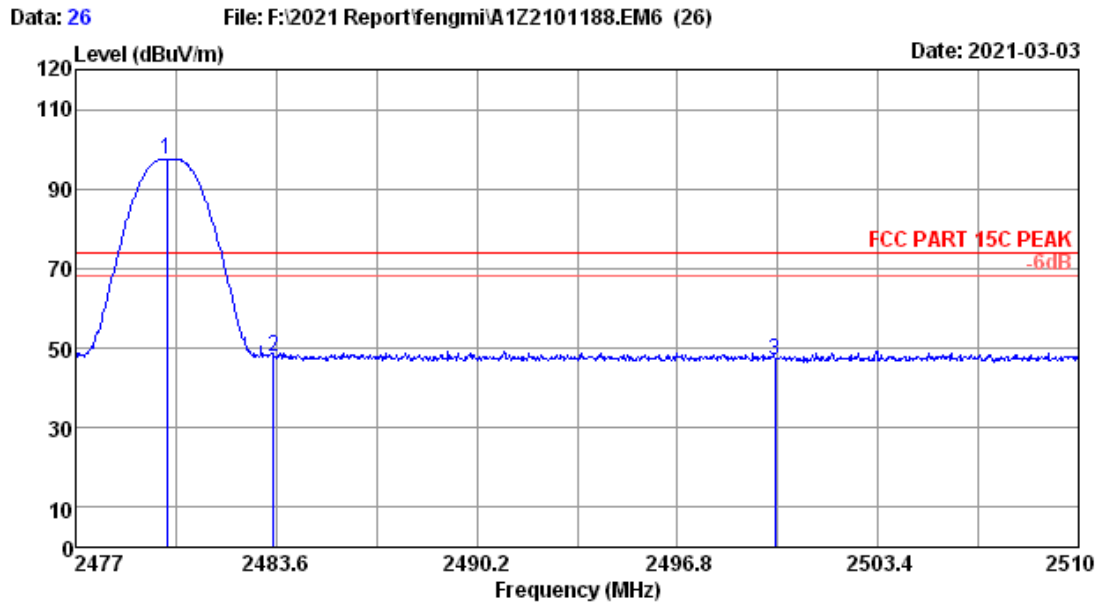
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 25
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	93.67	33.46	94.41	54.00	-40.41	Average
2	2483.50	28.17	6.03	34.23	33.46	34.97	54.00	19.03	Average
3	2500.00	28.20	6.04	33.74	33.45	34.53	54.00	19.47	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : RF Chamber Data no. : 26
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pressure : 101.7kPa
 Env. / Ins. : 23.4°C/52.9% Engineer : THOMAX
 Power rating : DC 3V
 Test Mode : BLE 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	6.03	96.67	33.46	97.41	74.00	-23.41	Peak
2	2483.50	28.17	6.03	47.27	33.46	48.01	74.00	25.99	Peak
3	2500.00	28.20	6.04	46.32	33.45	47.11	74.00	26.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

9.2. Block Diagram of Test Setup

Please reference to section 2.4.

9.3. Limit

For digitally modulated 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.

9.4. Test Procedure

Use the test method described in ANSI C63.10 clause 11.10.2:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

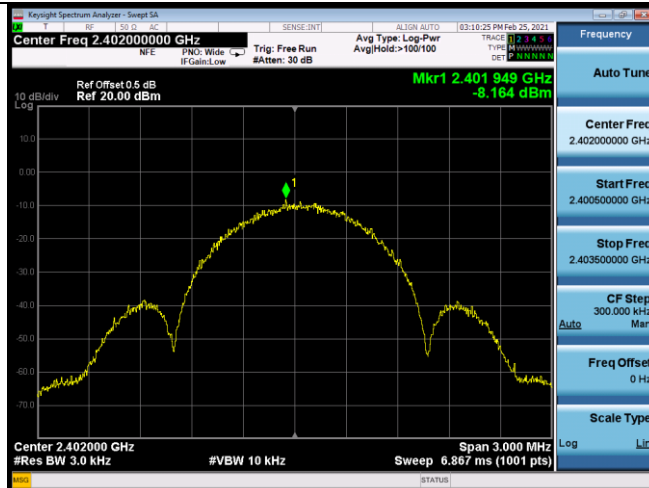
9.5. Test Results

EUT: Bluetooth Remote Control		
M/N: RC605		
Test Date:2021-2-25	Pressure: 102.5 ±1.0 kpa	Humidity: 51.3 ±3.0%
Tested By: THOMAX	Test site: RF site	Temperature:22.5 ±0.6 °C

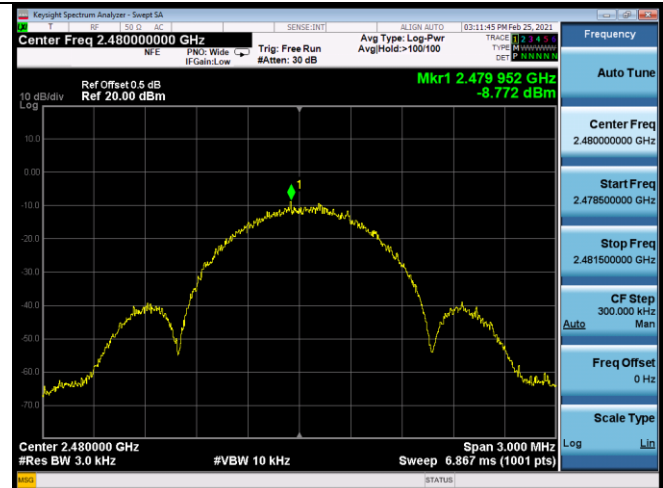
Test Mode	Frequency (MHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
GFSK	2402	-8.164	8
	2440	-8.486	8
	2480	-8.772	8

Conclusion : PASS			
-------------------	--	--	--

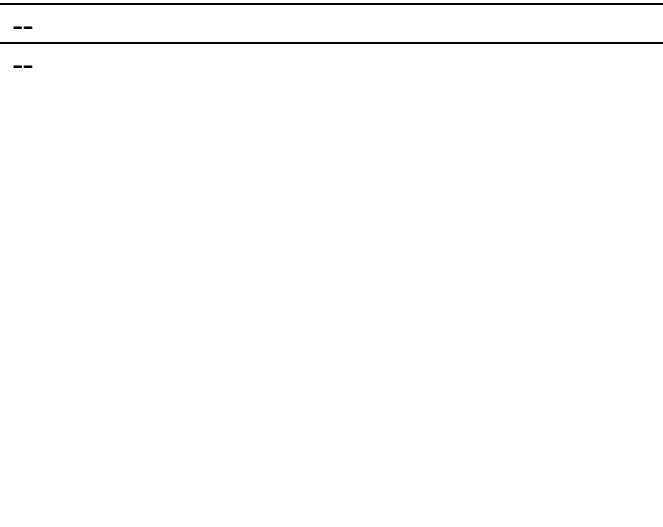
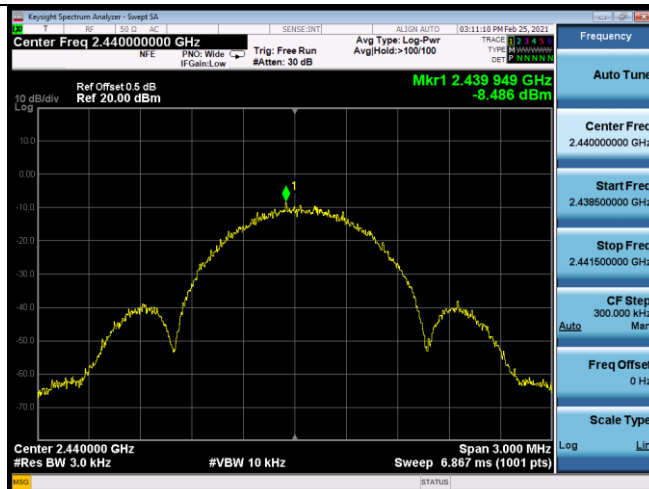
2402MHz



2480MHz



2440MHz



10.ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are PIFA antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -3.477dBi.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]

THE END