



FCC PART 15C TEST REPORT

BLUETOOTH LOW ENERGY (BLE) PART

No. I22Z00641-IOT04

for

Hytera Communications Corporation Limited

PoC Mobile Radio

Model Name: MNC360

with

Hardware Version: V1.0.01.000.01

Software Version: V1.0.06.000.01

FCC ID: YAMMNC360

IC: 8913A-MNC360

Issued Date: 2022-05-11

Note:

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1. Summary of Test Report

1.1. Test Items

Product Name	PoC Mobile Radio
Model Name	MNC360
Applicant's name	Hytera Communications Corporation Limited
Manufacturer's Name	Hytera Communications Corporation Limited

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013; RSS-247 Issue 2; RSS-Gen Issue 5.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

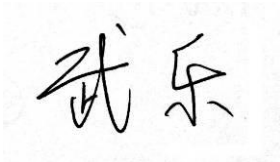
Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing,
P. R. China 100176

1.5. Project data

Testing Start Date:	2022-03-29
Testing End Date:	2022-05-11

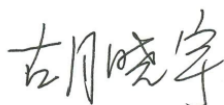
1.6. Signature



Wu Le
(Prepared this test report)



Sun Zhenyu
(Reviewed this test report)



Hu Xiaoyu
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Hytera Communications Corporation Limited
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Nanshan District, Shenzhen, P.R.C., P 518057
Contact Person Ruifen.Huang
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2.2. Manufacturer Information

Company Name: Hytera Communications Corporation Limited
Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,
Nanshan District, Shenzhen, P.R.C., P 518057
Contact Person Ruifen.Huang
E-Mail Ruifen.Huang@hytera.com
Telephone: 18925250460
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	PoC Mobile Radio
Model Name	MNC360
Frequency Range	2400MHz~2483.5MHz
Type of Modulation	GFSK
Number of Channels	40
Antenna Type	Integrated
Antenna Gain	0.20dBi
Power Supply	13.6V DC by external power supply
FCC ID	YAMMNC360
IC	8913A-MNC360
Condition of EUT as received	No abnormality in appearance
Product Marketing Name (PMN)	Hytera
Hardware Version ID.Number (FVIN)	MNC360
Software Version ID.Number (FVIN)	N/A
Host Marketing Name (HMN)	N/A

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT03aa	866346040178303	V1.0.01.000.01	V1.0.06.000.01	2022-03-28
UT11aa	866346040178394	V1.0.01.000.01	V1.0.06.000.01	2022-03-28

*EUT ID: is used to identify the test sample in the lab internally.

UT03aa is used for conduction test, UT11aa is used for radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	AE ID*				
AE1	GPS Antenna	/				
AE2	2G/3G/4G Antenna	/				
AE3	DC power supply	/				
AE4	Palm microphone	/				
AE1						
Model	DAMA1575AT41					
Manufacturer	ZHANGJIAGANG	FREE	TRADE	ZONE	CAIQIN	TECHNOLOGY
	CO.,LTD.					
AE2						
Model	AN1700W01					
Manufacturer	/					



AE3

Model	ZUP60-14
Manufacturer	/

AE4

Model	SM16A1
Manufacturer	Hytera Communications Corporation Limited

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of PoC Mobile Radio with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
RSS-247	Spectrum Management and Telecommunications Radio Standards Specification Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	Issue 2 February, 2017
RSS-Gen	Spectrum Management and Telecommunications Radio Standards Specification General Requirements for Compliance of Radio Apparatus	Issue 5 February, 2021 Amendment 2

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Sub-clause of IC	Verdict
0	Antenna Requirement	15.203	/	P
1	Maximum Peak Output Power	15.247 (b)	RSS-247 section 5.4	P
2	Peak Power Spectral Density	15.247 (e)	RSS-247 section 5.2	P
3	6dB Bandwidth	15.247 (a)	RSS-247 section 5.2	P
4	Band Edges Compliance	15.247 (d)	RSS-247 section 5.5	P
5	Transmitter Spurious Emission - Conducted	15.247 (d)	RSS-247 section 5.5/ RSS-Gen section 6.13	P
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	RSS-247 section 5.5/ RSS-Gen section 6.13	P
7	99% Occupied Bandwidth	/	RSS-Gen section 6.7	I

See **ANNEX A** for details.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisition	U2531A	TW55443507	Keysight	/	/
4	RF Control Unit	JS0806-2	21C8060398	Tonscend	2023-05-08	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Antenna	VULB9163	01176	Schwarzbeck	2022-11-15	1 year
2	Loop Antenna	HFH2-Z2	829324/007	Schwarzbeck	2022-12-22	1 year
3	Receiver	ESU26	100376	R&S	2022-09-15	1 year
4	Antenna	3117	00139065	ETS-Lindgren	2022-09-13	1 year

Test software

No.	Equipment	Manufacturer	Version
1	JS1120-3	Tonscend	2.6
2	EMC32	Rohde & Schwarz	V8.53.0

EUT is engineering software provided by the customer to control the transmitting signal.
The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Laboratory Environment

Semi/Full-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< $\pm$ 4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	$\leq$ 6 dB, from 1 to 18 GHz, 3 m distance

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω

8. Measurement Uncertainty

Test Name	Uncertainty ($k=2$)	
1. Maximum Peak Output Power	1.32dB	
2. Peak Power Spectral Density	2.32dB	
3. 6dB Bandwidth	4.56kHz	
4. Band Edges Compliance	1.92dB	
5. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	2.31dB
	$13\text{GHz} \leq f \leq 26\text{GHz}$	2.61dB
6. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f < 30\text{MHz}$	4.49dB
	$30\text{MHz} \leq f < 1\text{GHz}$	5.73dB
	$1\text{GHz} \leq f < 18\text{GHz}$	5.58dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37dB
7. 99% Occupied Bandwidth	4.56kHz	

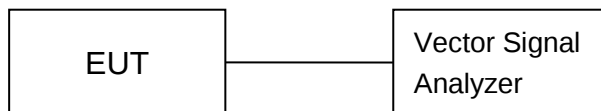
ANNEX A: Detailed Test Results

Test Configuration

The measurement is made according to ANSI C63.10.

1) Conducted Measurements

1. Connect the EUT to the test system correctly.
2. Set the EUT to the required work mode.
3. Set the EUT to the required channel.
4. Set the spectrum analyzer to start measurement.
5. Record the values.

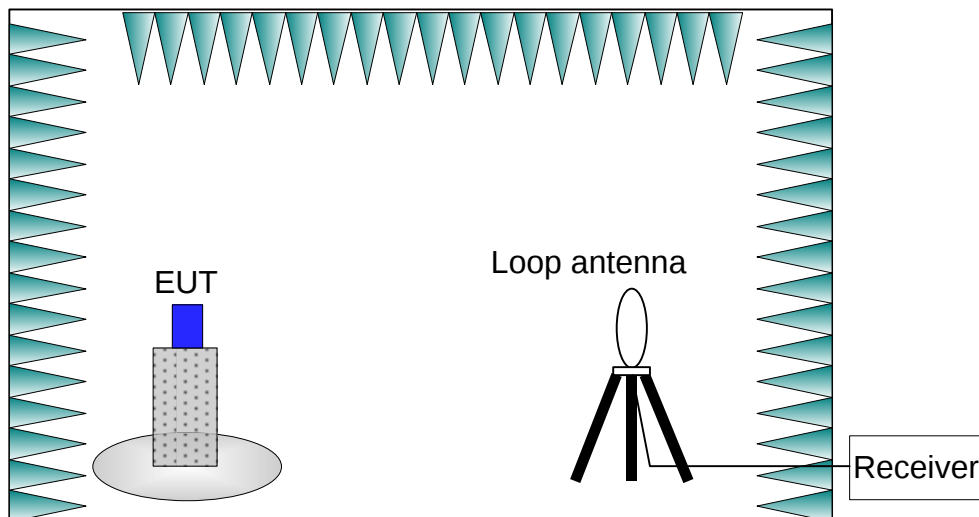


2) Radiated Measurements

Test setup:

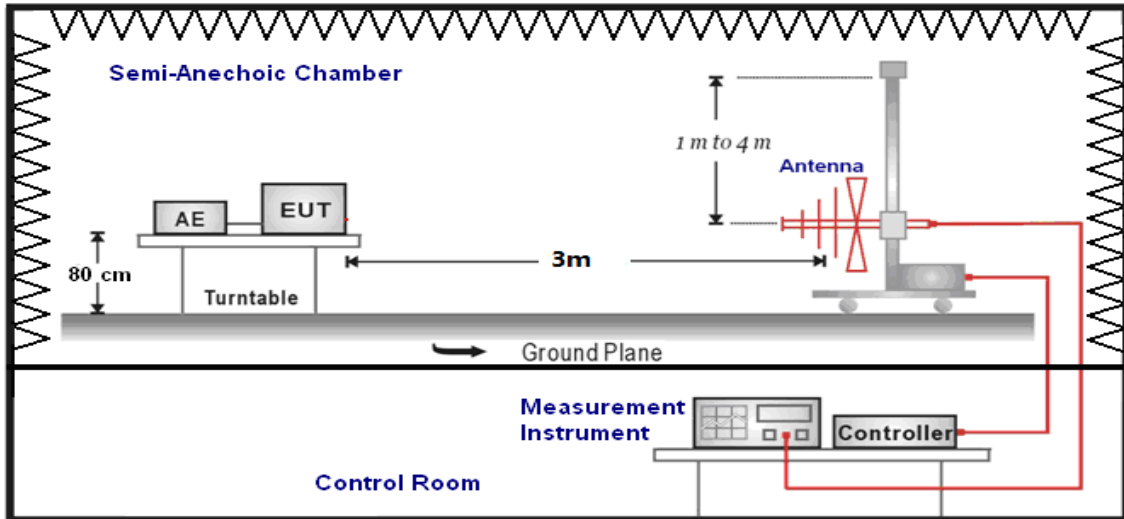
9kHz-30MHz:

The EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



30MHz-1GHz:

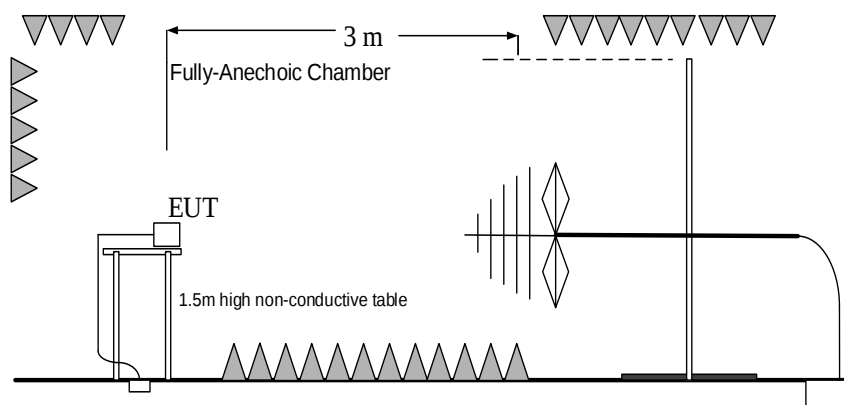
The EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

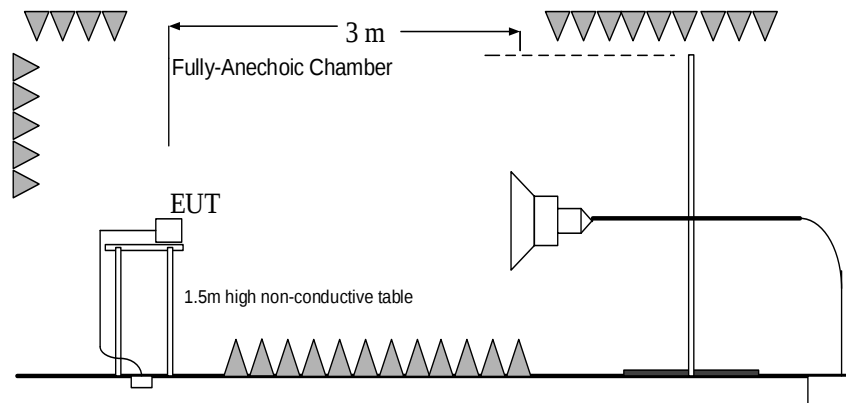


Above 1GHz:

EUT was placed on a 1.5 meter high non-conductive table at a 3 meter test distance from the receive antenna. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiving antenna polarization.

1GHz-3GHz:



3GHz-40GHz:

A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
FCC CRF Part 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is 0.20dBi.

The RF transmitter uses an integrate antenna without connector.

A.1 Maximum Peak Output Power

Method of Measurement: See ANSI C63.10-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

Measurement Limit:

Standard	Limit (dBm)	E.I.R.P Limit (dBm)
FCC 47 CRF Part 15.247(b) & RSS-247 section 5.4	< 30	< 36

Measurement Results:

Mode	Frequency (MHz)	Peak Conducted Output Power(dBm)	E.I.R.P (dBm)	Conclusion
LE 1M	2402(CH0)	-1.57	-1.37	P
	2440(CH19)	-0.65	-0.45	P
	2480(CH39)	-1.38	-1.18	P

Conclusion: Pass

A.2 Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-clause 11.10.2

Measurement Limit:

Standard	Limit
FCC 47 CRF Part 15.247(e) & RSS-247 section 5.2	< 8 dBm/3 kHz

Measurement Results:

Mode	Frequency (MHz)	Peak Power Spectral Density (dBm)		Conclusion
LE 1M	2402(CH0)	Fig.1	-13.37	P
	2440(CH19)	Fig.2	-12.55	P
	2480(CH39)	Fig.3	-13.30	P

See below for test graphs.

Conclusion: PASS

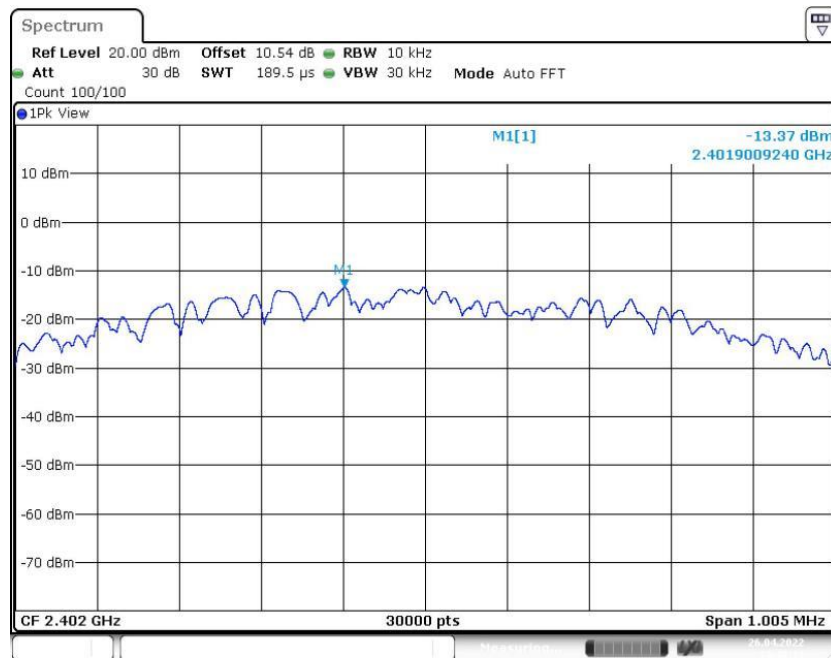


Fig.1 Power Spectral Density (CH0), LE 1M

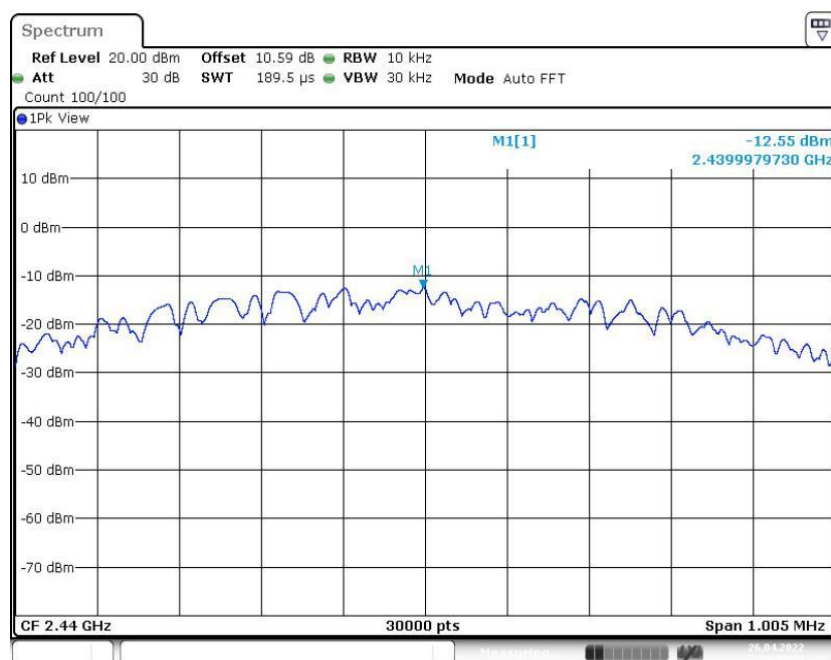


Fig.2 Power Spectral Density (CH19), LE 1M

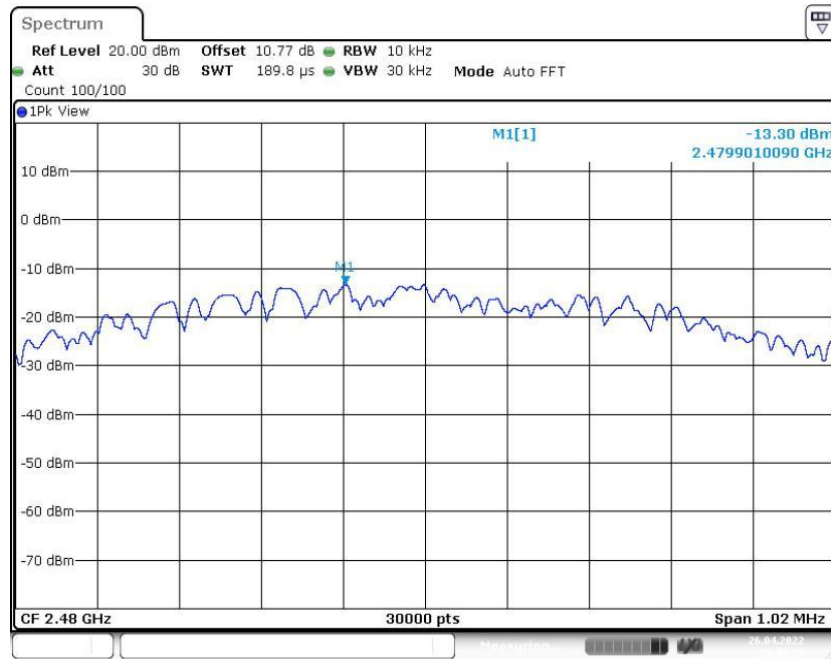


Fig.3 Power Spectral Density (CH39), LE 1M

A.3 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 section 5.2	≥ 500

Measurement Result:

Mode	Frequency (MHz)	Test Results (MHz)		Conclusion
LE 1M	2402(CH0)	Fig.4	0.67	P
	2440(CH19)	Fig.5	0.67	P
	2480(CH39)	Fig.6	0.68	P

See below for test graphs.

Conclusion: PASS

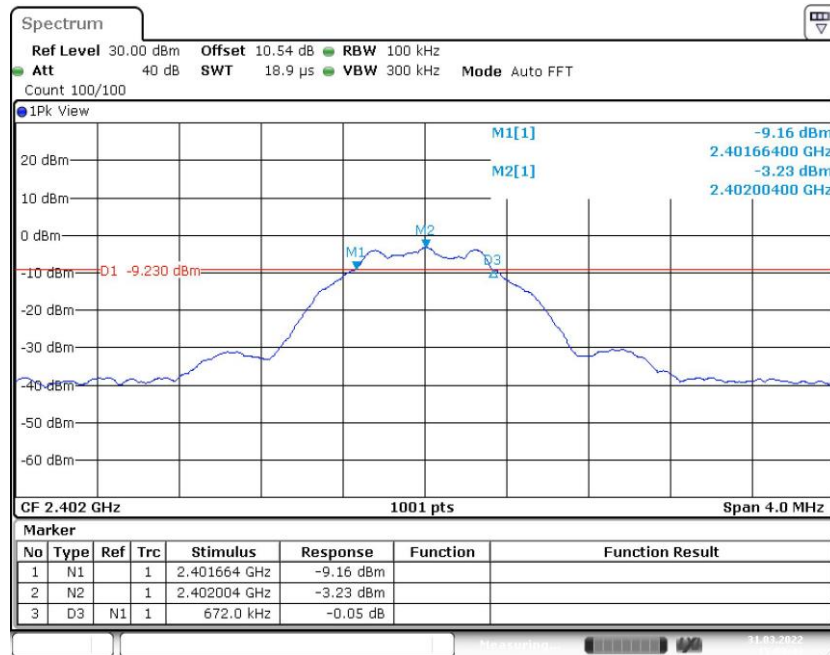


Fig.4 6dB Bandwidth (CH0), LE 1M

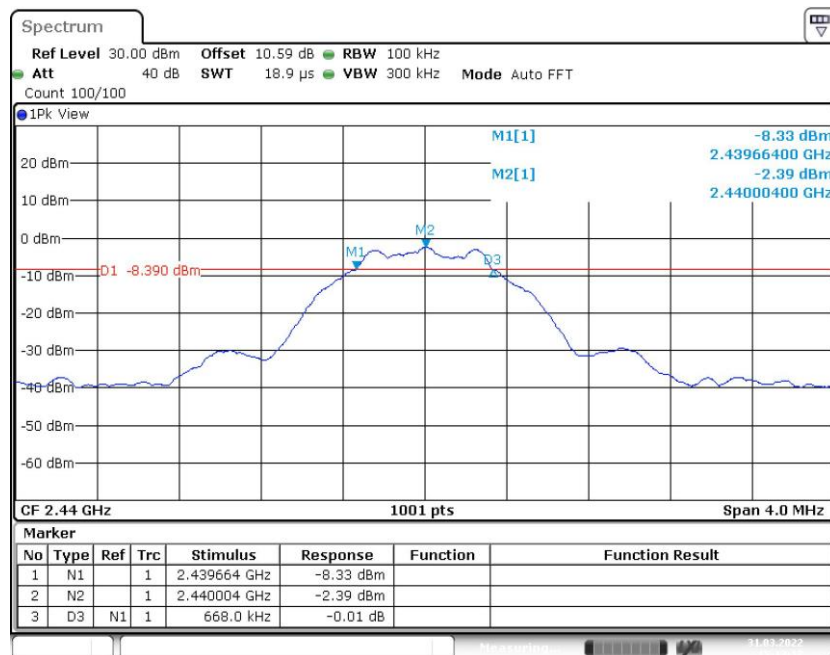


Fig.5 6dB Bandwidth (CH19), LE 1M

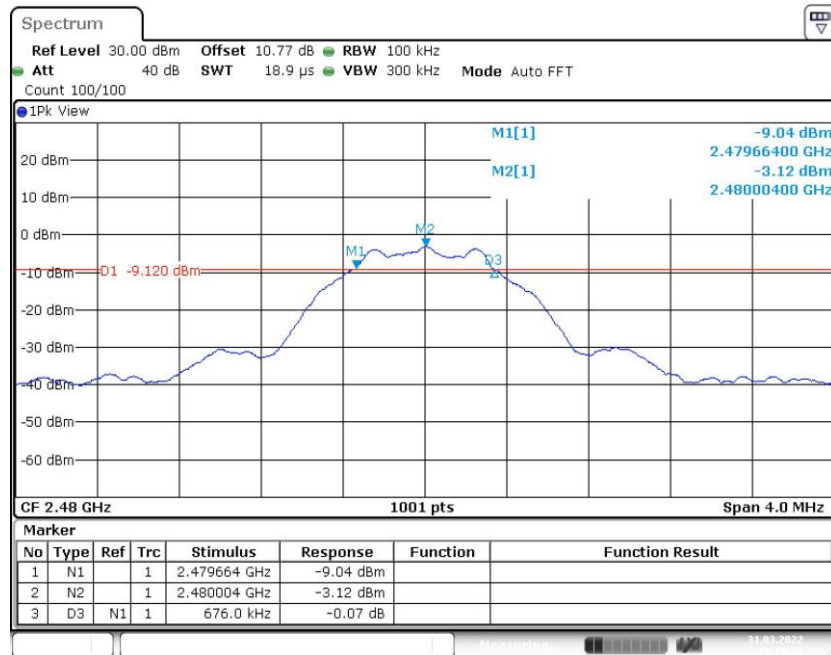


Fig.6 6dB Bandwidth (CH39), LE 1M

A.4 Band Edges Compliance

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFR Part 15.247 (d) & RSS-247 section 5.5	> 20

Measurement Result:

Mode	Frequency (MHz)	Test Results (dBm)		Conclusion
LE 1M	2402(CH0)	Fig.7	42.99	P
	2480(CH39)	Fig.8	42.75	P

See below for test graphs.

Conclusion: PASS

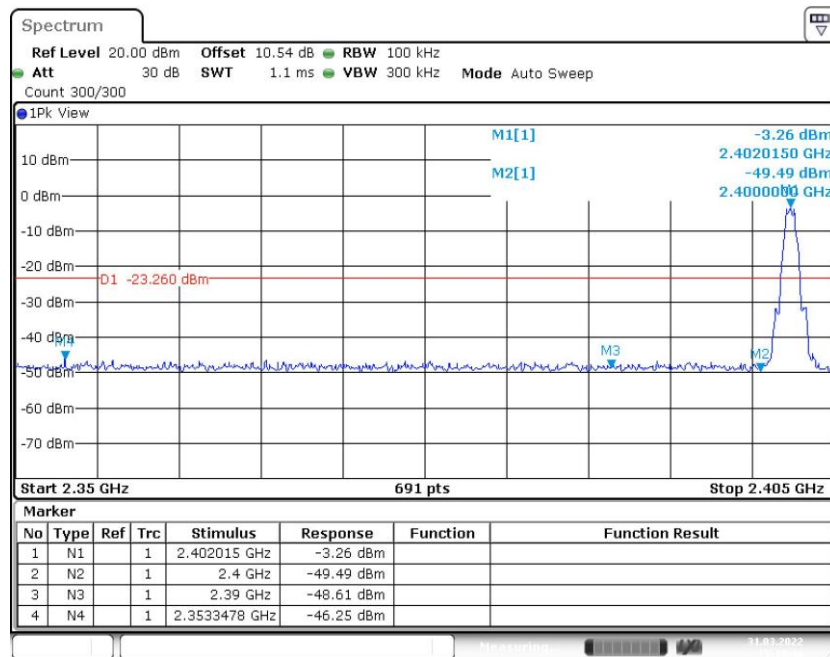


Fig.7 Band Edges (CH0), LE 1M

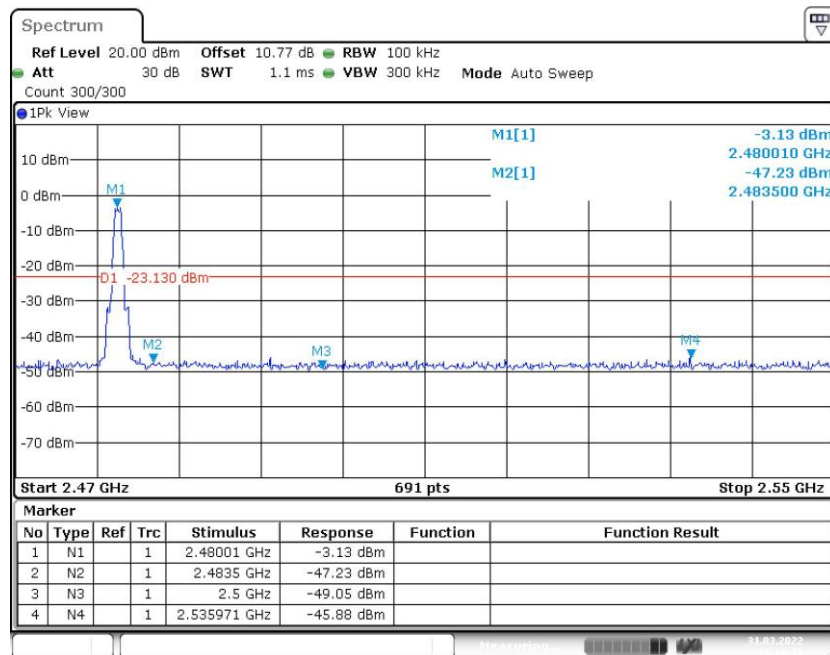


Fig.8 Band Edges (CH39), LE 1M

A.5 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d) & RSS-247 5.5/RSS-Gen section 6.13	20dB below peak output power in 100 kHz bandwidth

Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
LE 1M	0	2.402 GHz	Fig.9	P
		30MHz -1GHz	Fig.10	P
		1GHz-26.5GHz	Fig.11	P
	19	2.440 GHz	Fig.12	P
		30MHz -1GHz	Fig.13	P
		1GHz-26.5GHz	Fig.14	P
	39	2.480 GHz	Fig.15	P
		30MHz -1GHz	Fig.16	P
		1GHz-26.5GHz	Fig.17	P

See below for test graphs.

Conclusion: Pass



Fig.9 Conducted Spurious Emission (CH0, Center Frequency), LE 1M

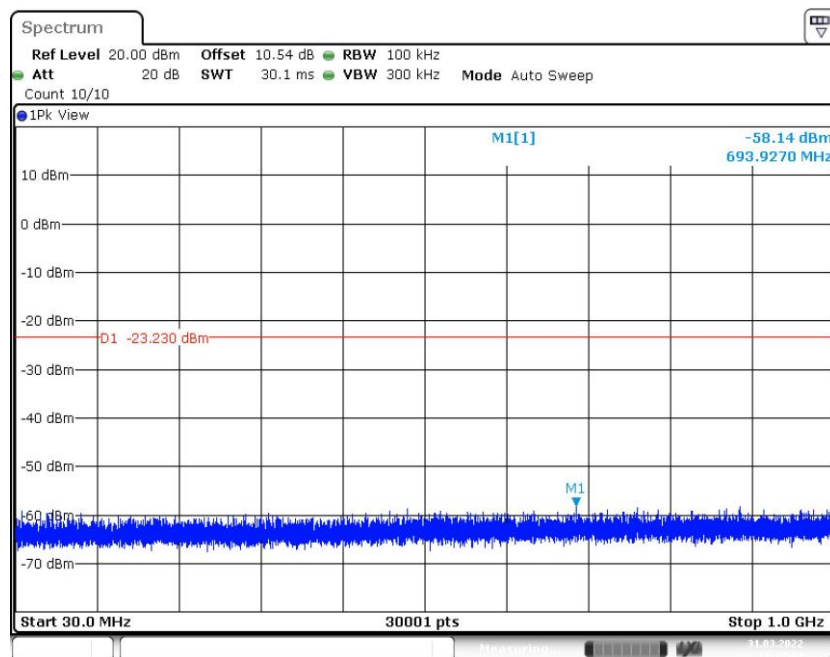


Fig.10 Conducted Spurious Emission (CH0, 30MHz -1GHz), LE 1M

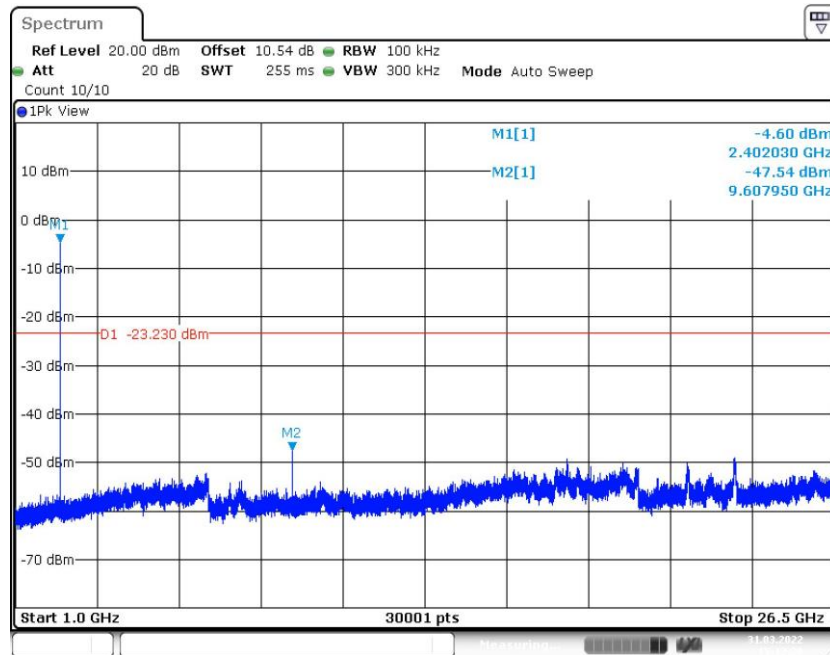


Fig.11 Conducted Spurious Emission (CH0, 1GHz-26.5GHz), LE 1M



Fig.12 Conducted Spurious Emission (CH19, Center Frequency), LE 1M

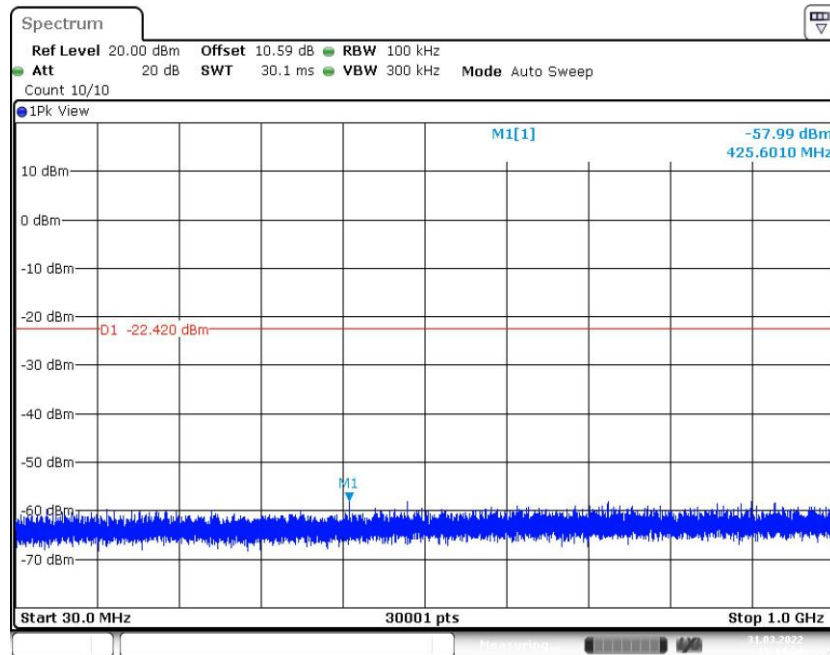


Fig.13 Conducted Spurious Emission (CH19, 30MHz -1GHz), LE 1M

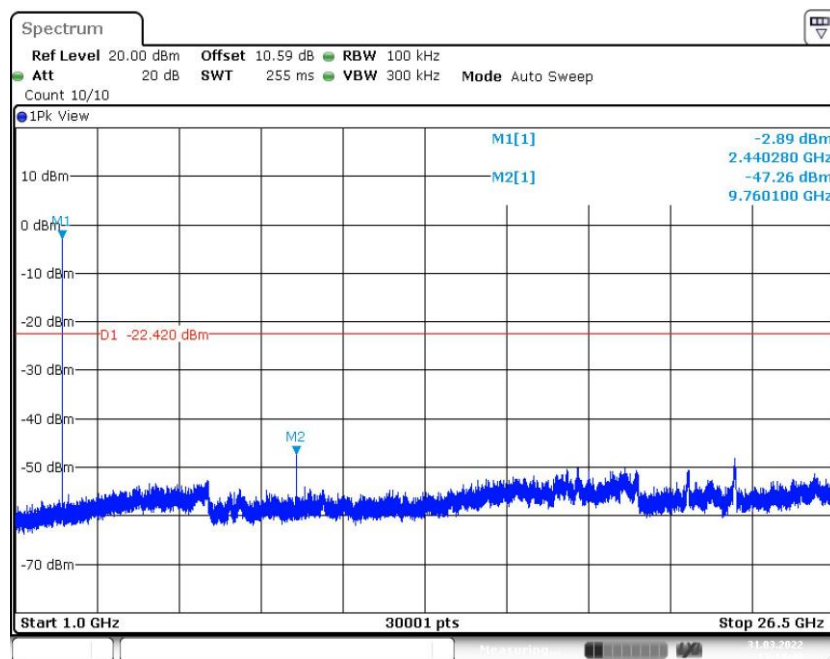


Fig.14 Conducted Spurious Emission (CH19, 1GHz-26.5GHz), LE 1M



Fig.15 Conducted Spurious Emission (CH39, Center Frequency), LE 1M

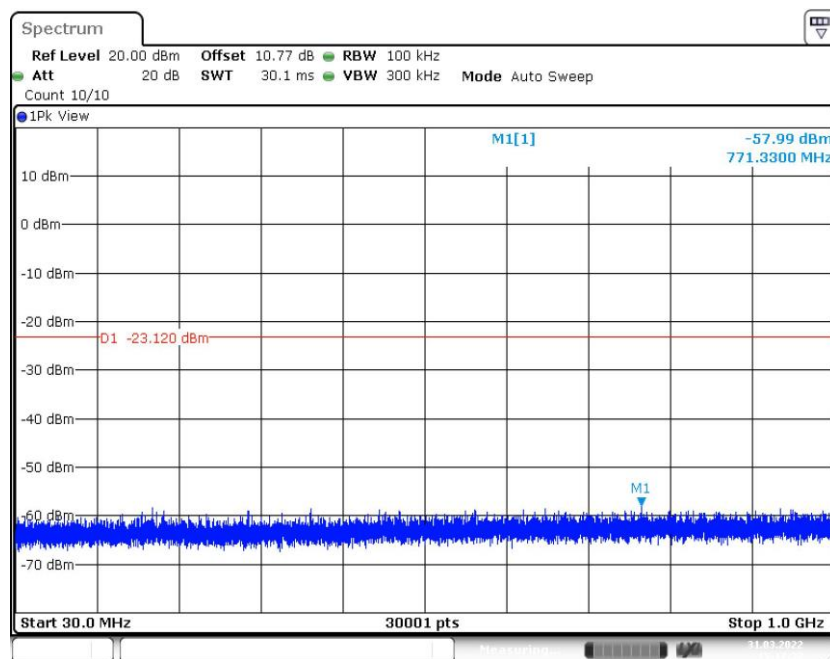


Fig.16 Conducted Spurious Emission (CH39, 30MHz -1GHz), LE 1M

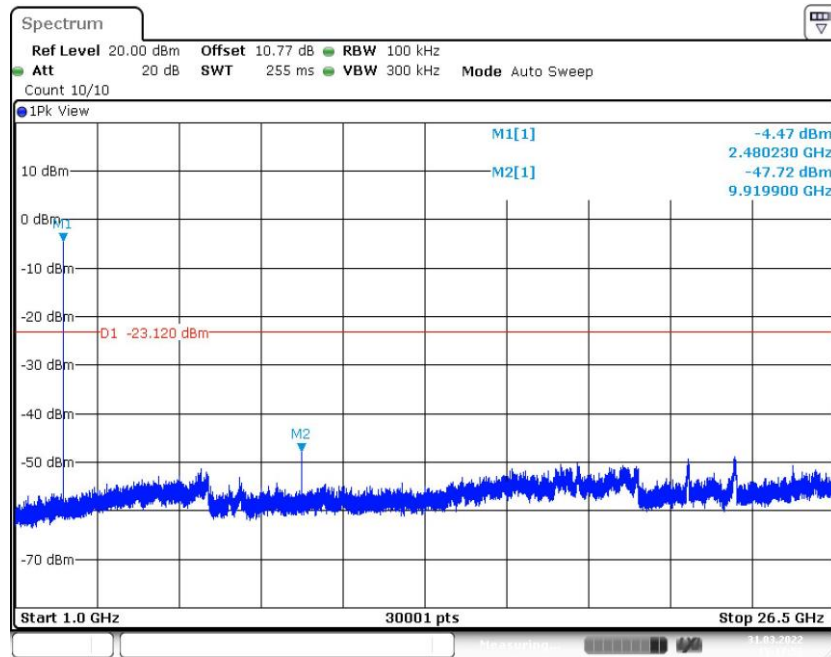


Fig.17 Conducted Spurious Emission (CH39, 1GHz-26.5GHz), LE 1M

A.6 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 & RSS-247 section 5.5/RSS-Gen section 6.13	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(μV/m)	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

Test Condition:

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note: According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
LE 1M	0	1 GHz ~18 GHz	Fig.18	P
	19	1 GHz ~18 GHz	Fig.19	P
	39	1 GHz ~18 GHz	Fig.20	P
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.21	P
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.22	P
	All channels	9 kHz ~30 MHz	Fig.23	P
		30 MHz ~1 GHz	Fig.24	P
		18 GHz ~ 26.5 GHz	Fig.25	P

Worst Case Result

LE 1M CH19 (1-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
9768.000000	45.36	74.00	28.64	H	7.5
10536.857143	46.77	74.00	27.23	V	8.8
12876.000000	49.19	74.00	24.81	H	11.0
14944.285714	49.45	74.00	24.55	H	12.9
16188.000000	50.67	74.00	23.33	H	14.7
17064.000000	55.13	74.00	18.87	V	18.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
9768.000000	40.39	54.00	13.61	H	7.5
10536.857143	34.76	54.00	19.24	V	8.8
12876.000000	36.97	54.00	17.03	H	11.0
14944.285714	38.48	54.00	15.52	H	12.9
16188.000000	39.89	54.00	14.11	H	14.7
17064.000000	42.43	54.00	11.57	V	18.5

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument. The measurement results are obtained as described below:

Result= P_{Mea} +Cable Loss +Antenna Factor-Gain of the preamplifier.

See below for test graphs.

Conclusion: Pass

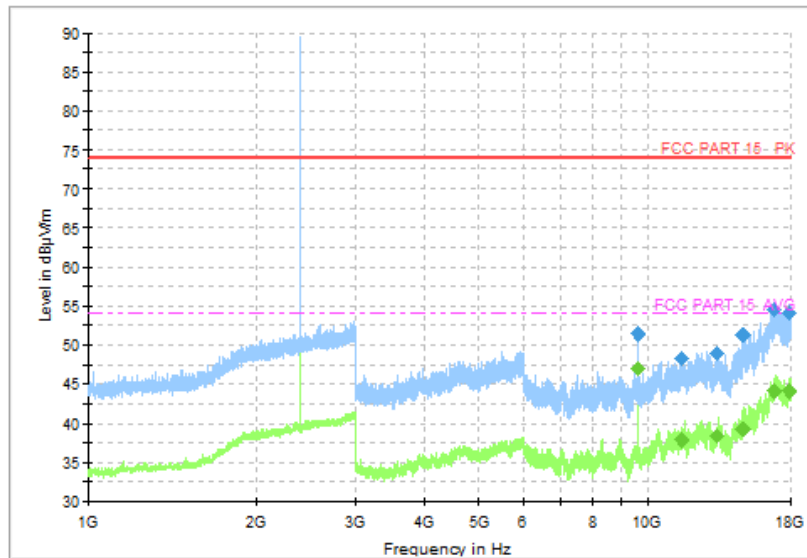


Fig.18 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~18 GHz), LE 1M

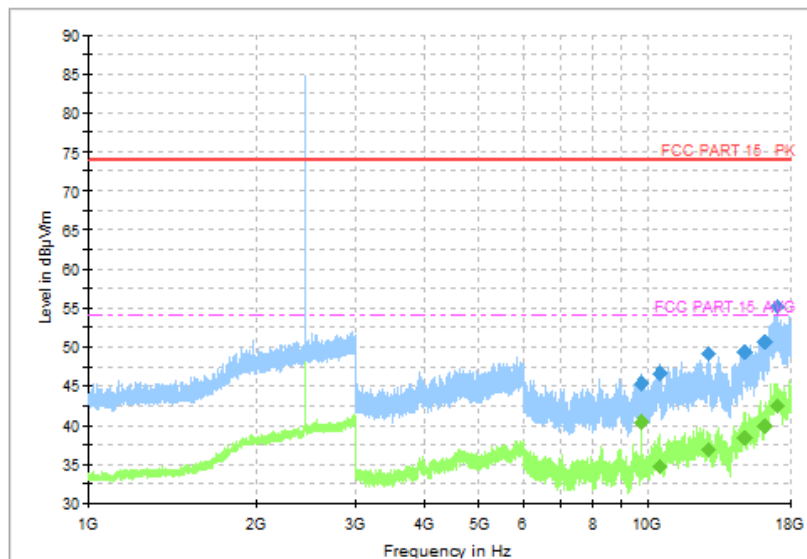


Fig.19 Radiated Spurious Emission (GFSK, Ch19, 1 GHz ~18 GHz), LE 1M

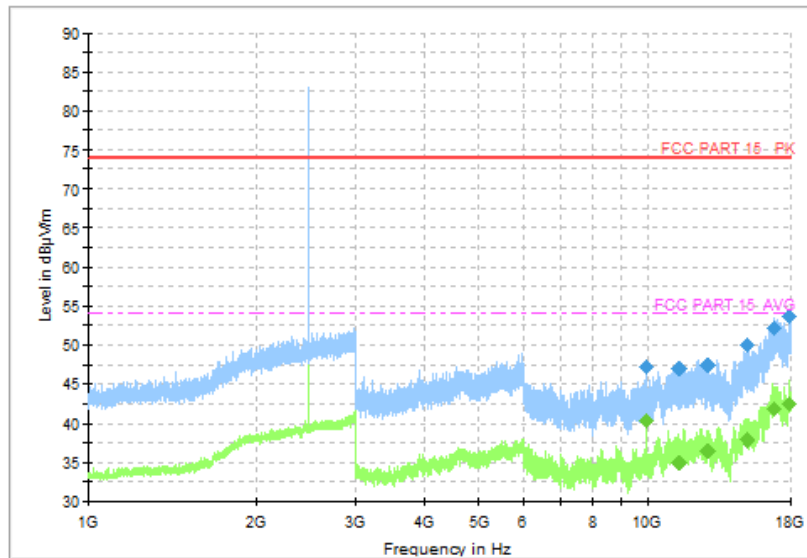


Fig.20 Radiated Spurious Emission (GFSK, Ch39, 1 GHz ~18 GHz), LE 1M

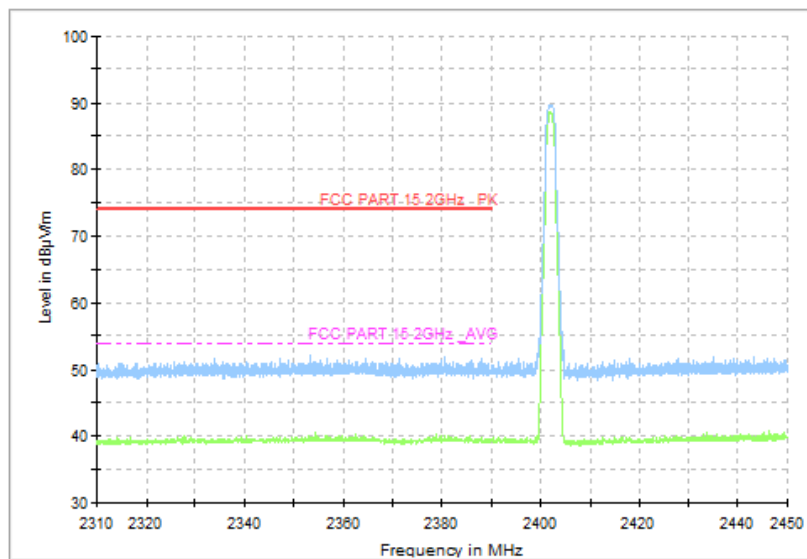


Fig.21 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz), LE 1M

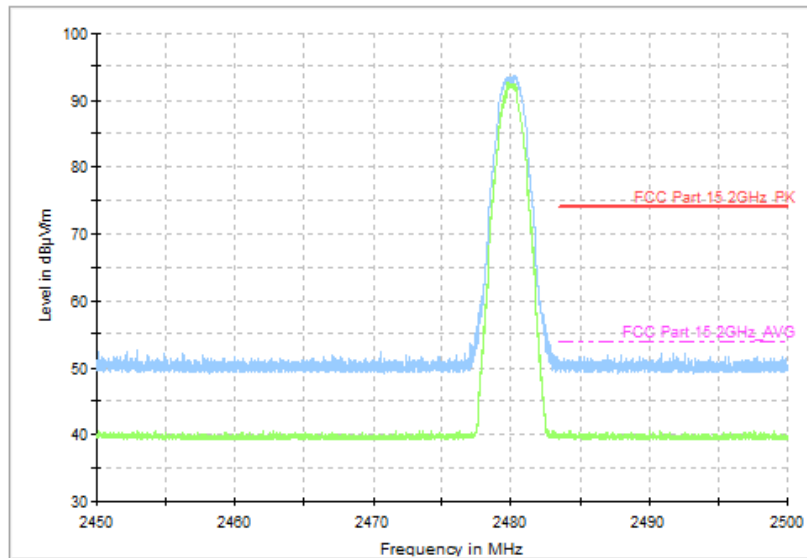


Fig.22 Radiated Band Edges (GFSK, Ch39, 2450GHz~2500GHz), LE 1M

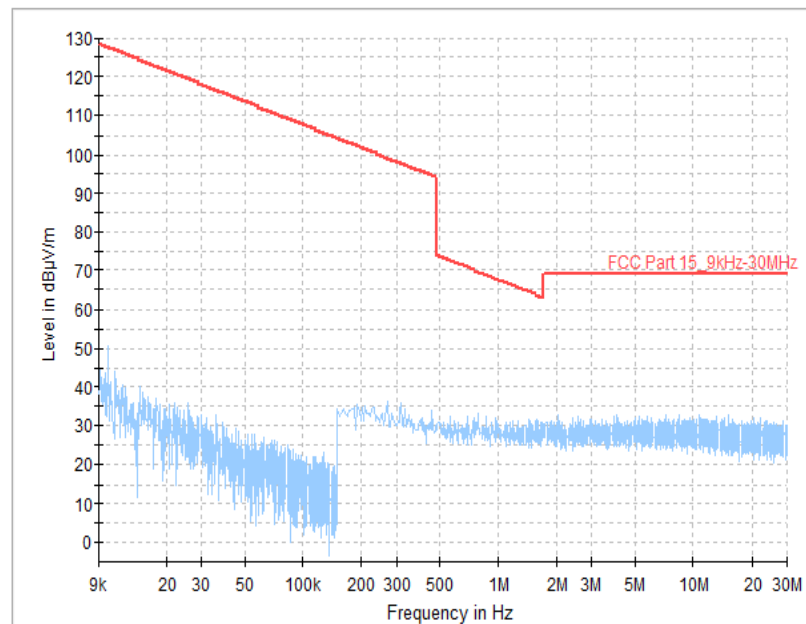


Fig.23 Radiated Spurious Emission (All Channels, 9 kHz-30 MHz), LE 1M

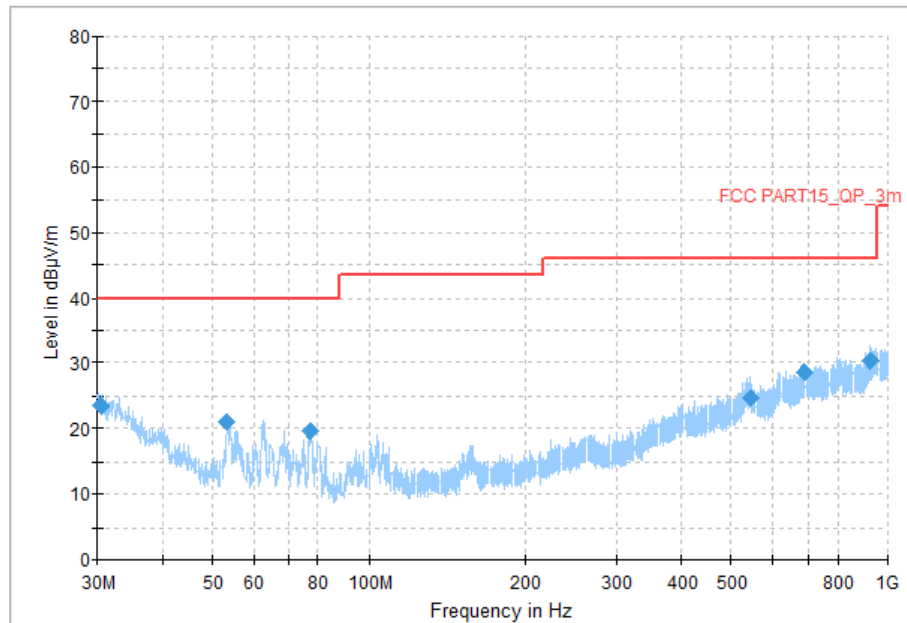


Fig.24 Radiated Spurious Emission (All Channels, 30 MHz-1 GHz), LE 1M

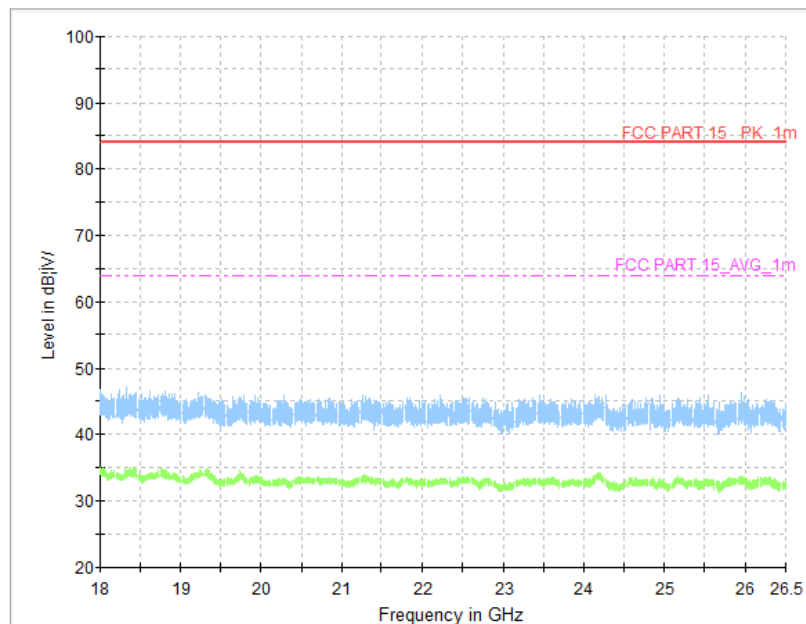


Fig.25 Radiated Spurious Emission (All Channels, 18 GHz-26.5 GHz), LE 1M

A.7 99% Occupied Bandwidth

Measurement Limit:

Standard	Limit (kHz)
RSS-Gen section 6.7	/

Measurement Result:

Mode	Frequency (MHz)	Test Results (kHz)		Conclusion
LE 1M	2402(CH0)	Fig.26	1095.00	/
	2440(CH19)	Fig.27	1091.00	/
	2480(CH39)	Fig.28	1095.00	/

See below for test graphs.

Conclusion: PASS

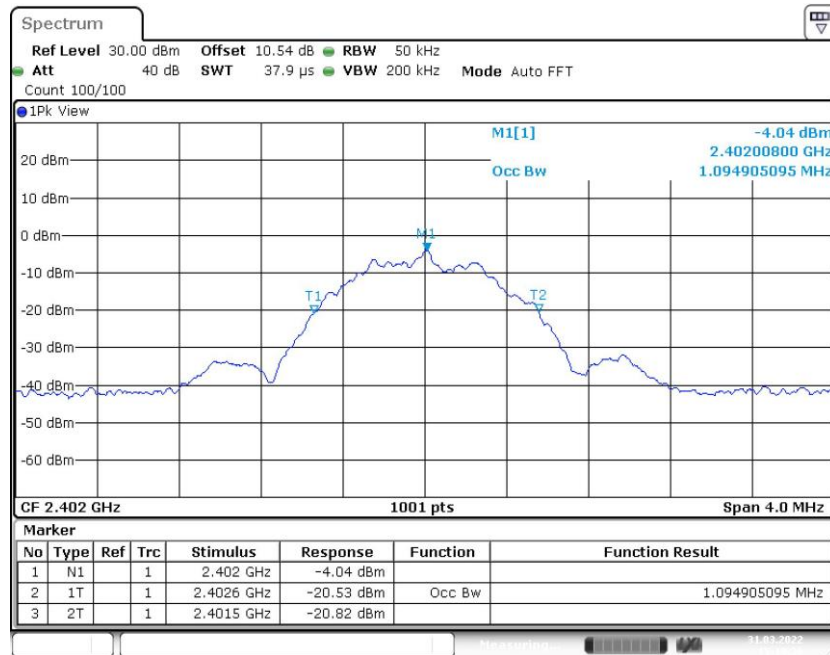


Fig.26 99% Occupied Bandwidth: GFSK, Channel 0, LE 1M

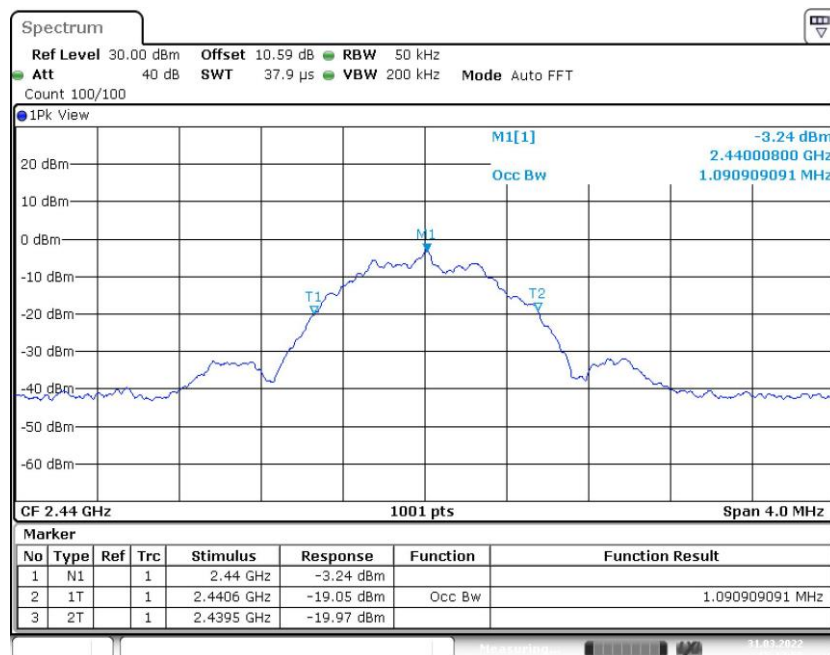


Fig.27 99% Occupied Bandwidth: GFSK, Channel 19, LE 1M

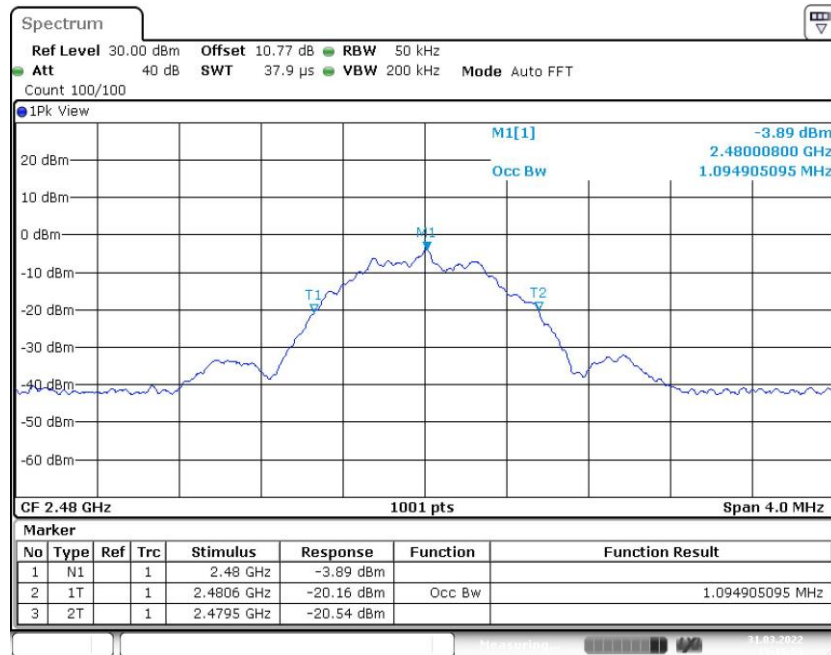


Fig.28 99% Occupied Bandwidth: GFSK, Channel 39, LE 1M

ANNEX B: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology NVLAP[®] 	
Certificate of Accreditation to ISO/IEC 17025:2017	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
2021-09-29 through 2022-09-30 <i>Effective Dates</i>	 DEPARTMENT OF COMMERCE UNITED STATES OF AMERICA  For the National Voluntary Laboratory Accreditation Program

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