



# TEST REPORT

No. I21N02614-BLE

for

**TCL Communication Ltd**

**MOVEAUDIO S108 TRUE WIRELESS IN-EAR HEADPHONES**

**Model Name: TW08**

with

**Hardware Version: YBFL1C2**

**Software Version: 1.0.0.0**

**FCC ID: 2ACCJB165**

**Issued Date: 2021-09-19**

**Designation Number: CN1210**

**ISED Assigned Code: 23289**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

**Test Laboratory:**

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## **CONTENTS**

<b>CONTENTS.....</b>	<b>2</b>
<b>1. SUMMARY OF TEST REPORT.....</b>	<b>3</b>
1.1. TEST ITEMS.....	3
1.2. TEST STANDARDS.....	3
1.3. TEST RESULT.....	3
1.4. TESTING LOCATION.....	3
1.5. PROJECT DATA.....	3
1.6. SIGNATURE.....	3
<b>2. CLIENT INFORMATION.....</b>	<b>4</b>
2.1. APPLICANT INFORMATION.....	4
2.2. MANUFACTURER INFORMATION.....	4
<b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE).....</b>	<b>5</b>
3.1. ABOUT EUT.....	5
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST.....	5
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	5
3.4. GENERAL DESCRIPTION.....	5
<b>4. REFERENCE DOCUMENTS.....</b>	<b>6</b>
4.1. DOCUMENTS SUPPLIED BY APPLICANT.....	6
4.2. REFERENCE DOCUMENTS FOR TESTING.....	6
<b>5. TEST RESULTS.....</b>	<b>7</b>
5.1. TESTING ENVIRONMENT.....	7
5.2. TEST RESULTS.....	7
5.3. STATEMENTS.....	7
<b>6. TEST EQUIPMENTS UTILIZED.....</b>	<b>8</b>
<b>7. LABORATORY ENVIRONMENT.....</b>	<b>9</b>
<b>8. MEASUREMENT UNCERTAINTY.....</b>	<b>10</b>
<b>ANNEX A: DETAILED TEST RESULTS.....</b>	<b>11</b>
TEST CONFIGURATION.....	11
A.0 ANTENNA REQUIREMENT.....	13
A.1 MAXIMUM PEAK OUTPUT POWER.....	14
A.2 PEAK POWER SPECTRAL DENSITY.....	15
A.3 6dB BANDWIDTH.....	17
A.4 BAND EDGES COMPLIANCE.....	19
A.5 TRANSMITTER SPURIOUS EMISSION - CONDUCTED.....	21
A.6 TRANSMITTER SPURIOUS EMISSION - RADIATED.....	26



## **1. Summary of Test Report**

### **1.1. Test Items**

Description	MOVEAUDIO S108 TRUE WIRELESS IN-EAR HEADPHONES
Model Name	TW08
Applicant's name	TCL Communication Ltd
Manufacturer's Name	TCL Communication Ltd

### **1.2. Test Standards**

FCC CFR 47, Part 15, Subpart C-2019

### **1.3. Test Result**

**Pass**

### **1.4. Testing Location**

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road,  
Futian District, Shenzhen, Guangdong, P. R. China

### **1.5. Project data**

Testing Start Date:	2021-08-21
Testing End Date:	2021-09-17

### **1.6. Signature**

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**Lin Zechuang**  
**(Prepared this test report)**

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**An Ran**  
**(Reviewed this test report)**

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**Zhang Bojun**  
**(Approved this test report)**



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd  
Address: 5/F Building 22E 22 Science Park East Avenue Hong Kong Science  
Park Shatin, NT, Hong Kong  
Contact Person: Gong Zhizhou  
E-Mail: Zhizhou.gong@tcl.com  
Telephone: 0086-755-36611722

### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd  
Address: 5/F Building 22E 22 Science Park East Avenue Hong Kong Science  
Park Shatin, NT, Hong Kong  
Contact Person: Gong Zhizhou  
E-Mail: Zhizhou.gong@tcl.com  
Telephone: 0086-755-36611722

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

#### **3.1. About EUT**

Description	MOVEAUDIO S108 TRUE WIRELESS IN-EAR NC HEADPHONES
Model Name	TW08
Frequency Range	2400MHz~2483.5MHz
Type of Modulation	GFSK
Number of Channels	40
Antenna Type	Integrated
Antenna Gain	-0.84dBi
Power Supply	3.7V DC by Battery
FCC ID	2ACCJB165
Condition of EUT as received	No abnormality in appearance

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
UT01aa	/	YBFL1C2	1.0.0.0	2021-08-20
UT02aa	/	YBFL1C2	1.0.0.0	2021-08-20

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

#### **3.3. Internal Identification of AE used during the test**

AE ID*	Description	AE ID*
AE1	Battery	/

\*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 MOVEAUDIO S108 TRUE WIRELESS IN-EAR HEADPHONES (the left headphone) with integrated antenna and battery.

It consists of normal options: Charger.

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.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
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

## 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	/	<b>P</b>
1	Maximum Peak Output Power	15.247 (b)	RSS-247 section 5.4	<b>P</b>
2	Peak Power Spectral Density	15.247 (e)	RSS-247 section 5.2	<b>P</b>
3	6dB Bandwidth	15.247 (a)	RSS-247 section 5.2	<b>P</b>
4	Band Edges Compliance	15.247 (d)	RSS-247 section 5.5	<b>P</b>
5	Transmitter Spurious Emission - Conducted	15.247 (d)	RSS-247 section 5.5/ RSS-Gen section 6.13	<b>P</b>
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	RSS-247 section 5.5/ RSS-Gen section 6.13	<b>P</b>
7	AC Power line Conducted Emission	15.107, 15.207	RSS-Gen section 8.8	<b>NA</b>

See **ANNEX A** for details.

**NA:** Because the device can not use Bluetooth function when charging, the conducted continuous disturbance test is not required.

### 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.

## 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	2021-12-30	1 year

### Radiated emission test system

NO.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 years
2	BiLog Antenna	3142E	00224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-02	3 years
4	Test Receiver	ESR7	101676	Rohde & Schwarz	2021-11-25	1 year
5	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2022-01-13	1 year
6	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years
7	Antenna	QSH-SL-18-26-S-20	17013	Q-par	2023-01-06	3 years

### Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

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-anechoic chambe**

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 $\Omega$
Ground system resistance	< 4 $\Omega$
Normalised site attenuation (NSA)	< $\pm 4$ dB, 3 m distance, from 30 to 1000 MHz

### **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 $\Omega$
Ground system resistance	< 4 $\Omega$

### **Fully-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 $\Omega$
Ground system resistance	< 4 $\Omega$
Voltage Standing Wave Ratio (VSWR)	$\leq 6$ dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

## 8. Measurement Uncertainty

Test Name	Uncertainty ( $k=2$ )	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4 Transmitter Spurious Emission - Conducted	30MHz ≤ f ≤ 1GHz	1.41dB
	1GHz ≤ f ≤ 7GHz	1.92dB
	7GHz ≤ f ≤ 13GHz	2.31dB
	13GHz ≤ f ≤ 26GHz	2.61dB
5. Transmitter Spurious Emission - Radiated	9kHz ≤ f ≤ 30MHz	1.74dB
	30MHz ≤ f ≤ 1GHz	4.84dB
	1GHz ≤ f ≤ 18GHz	4.68dB
	18GHz ≤ f ≤ 40GHz	3.76dB
6. AC Power line Conducted Emission	150kHz ≤ f ≤ 30MHz	3.00dB

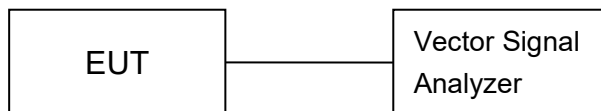
## **ANNEX A: Detailed Test Results**

### **Test Configuration**

The measurement is made according to ANSI C63.10.

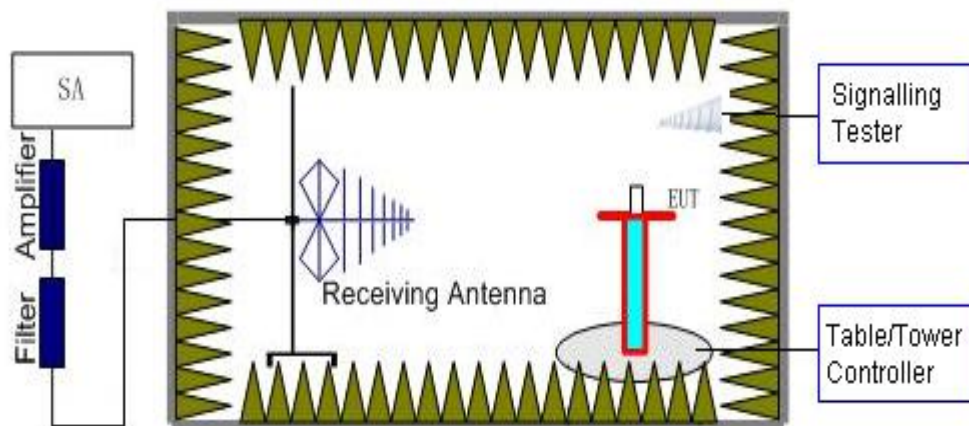
#### **1) Conducted Measurements**

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.



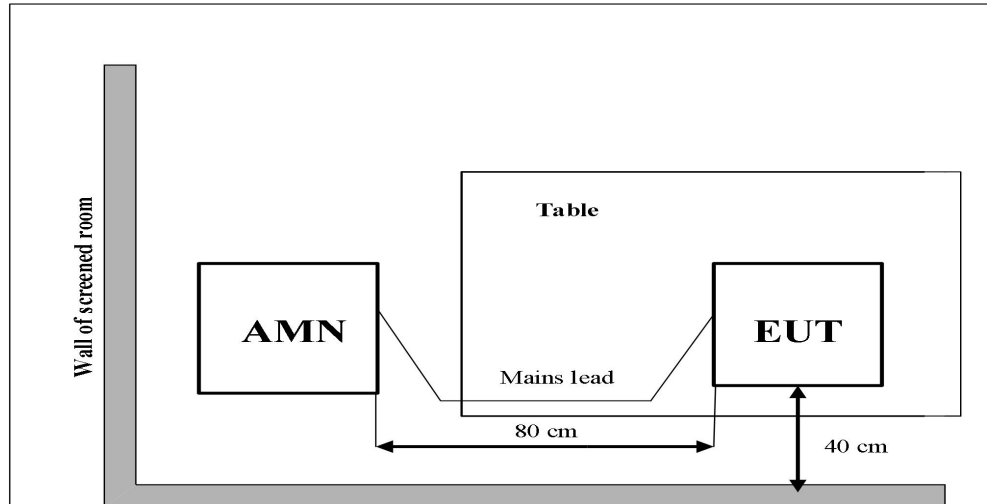
#### **2) Radiated Measurements**

**Test setup:** 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.



### 3) AC Power line Conducted Emission Measurement

For Bluetooth LE, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



## 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 -0.84 dBi.**

**The RF transmitter uses an integrate antenna without connector.**



## A.1 Maximum Peak Output Power

### Method of Measurement: See ANSI C63.10-clause 11.9.1.1

Use the following spectrum analyzer settings:

- a) Set the RBW = 1 MHz.
- b) Set VBW = 3 MHz.
- c) Set span = 3 MHz.
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

### 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)	3.46	2.62	<b>P</b>
	2440(CH19)	3.14	2.30	<b>P</b>
	2480(CH39)	2.17	1.33	<b>P</b>

**Note:** E.I.R.P value = Conducted values (with conducted samples) + Antenna Gain.

**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	-12.35
	2440(CH19)	Fig.2	-12.57
	2480(CH39)	Fig.3	-13.56

See below for test graphs.

Conclusion: PASS

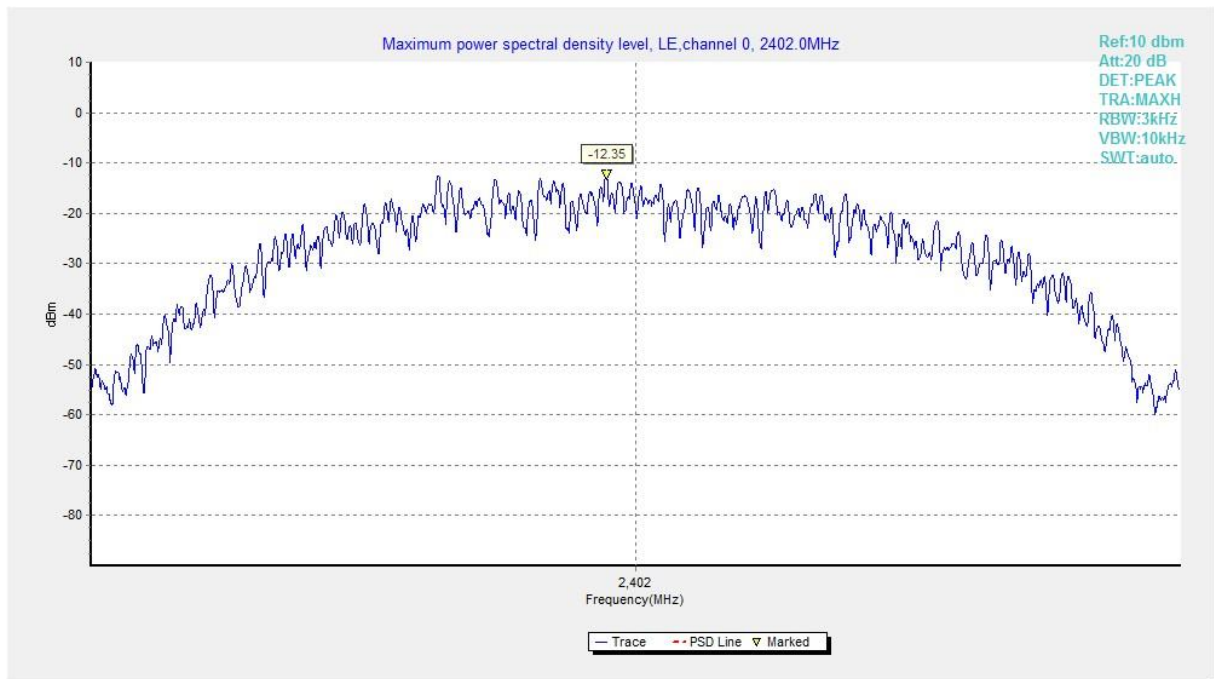
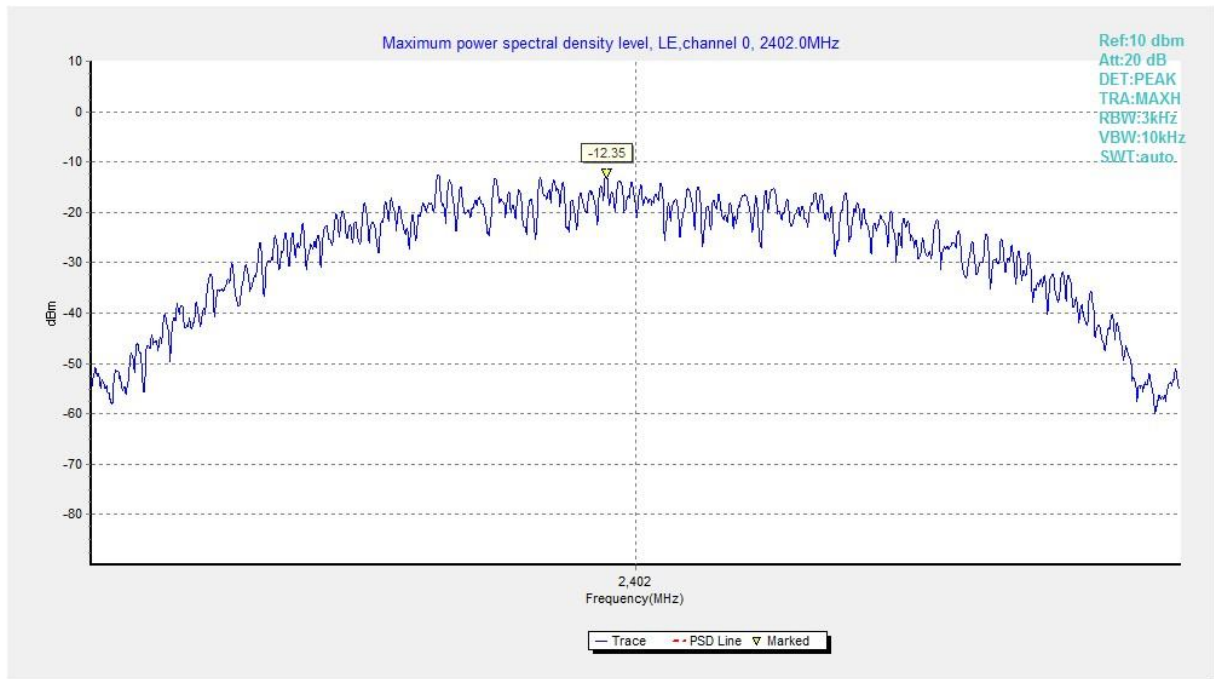
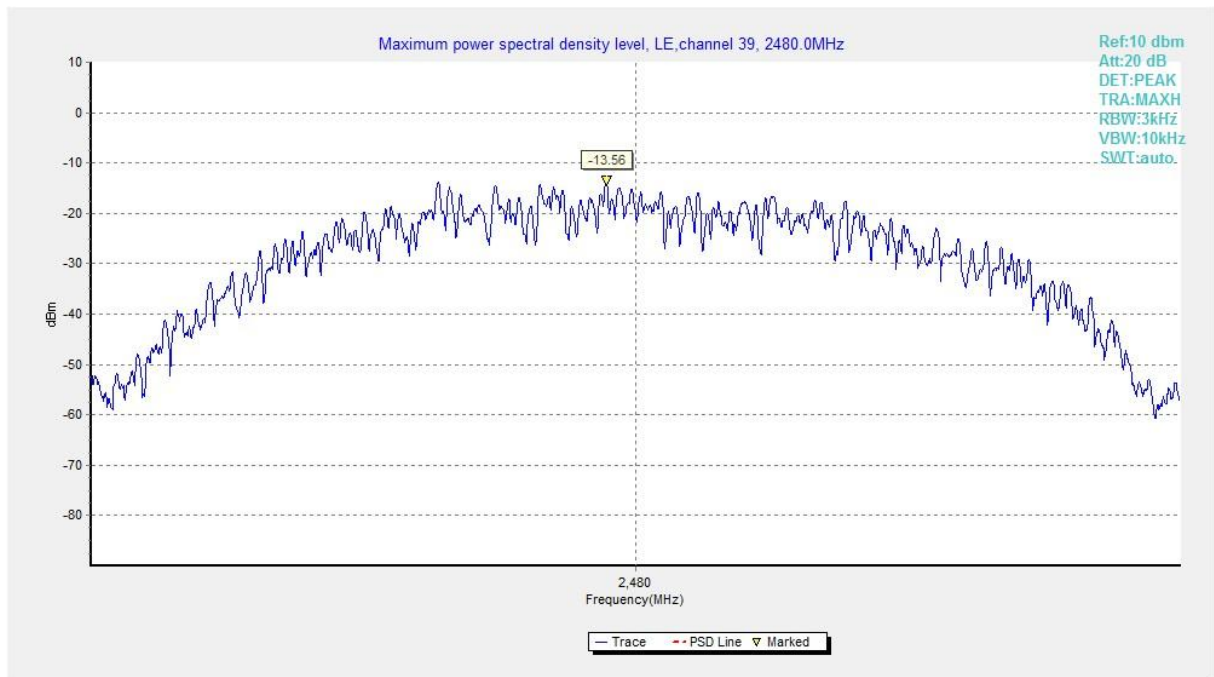


Fig.1 Power Spectral Density (Ch 0), LE 1M



**Fig.2 Power Spectral Density (Ch 19), LE 1M**



**Fig.3 Power Spectral Density (Ch 39), LE 1M**

### A.3 6dB Bandwidth

#### Measurement Limit:

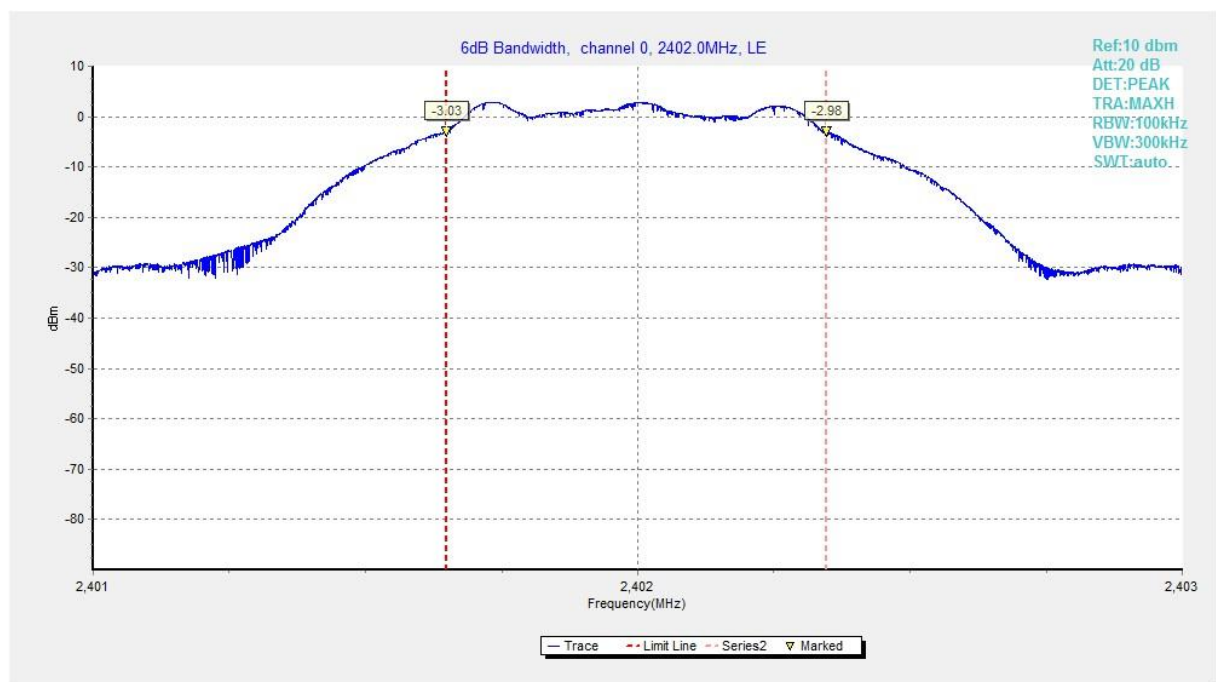
Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 section 5.2	$\geq 500$

#### Measurement Result:

Mode	Frequency (MHz)	Test Results ( kHz)		Conclusion
LE 1M	2402(CH0)	Fig.4	687.00	<b>P</b>
	2440(CH19)	Fig.5	698.50	<b>P</b>
	2480(CH39)	Fig.6	695.50	<b>P</b>

See below for test graphs.

Conclusion: **PASS**



**Fig.4 6dB Bandwidth (Ch 0), LE 1M**

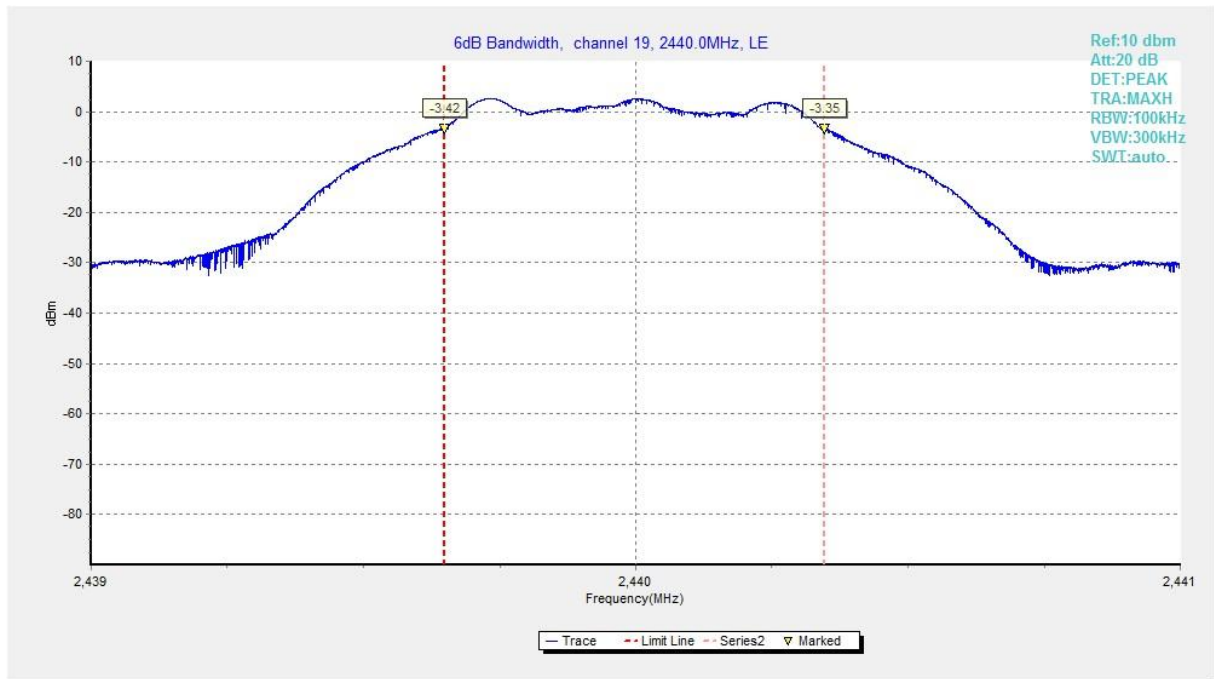


Fig.5 6dB Bandwidth (Ch 19), LE 1M

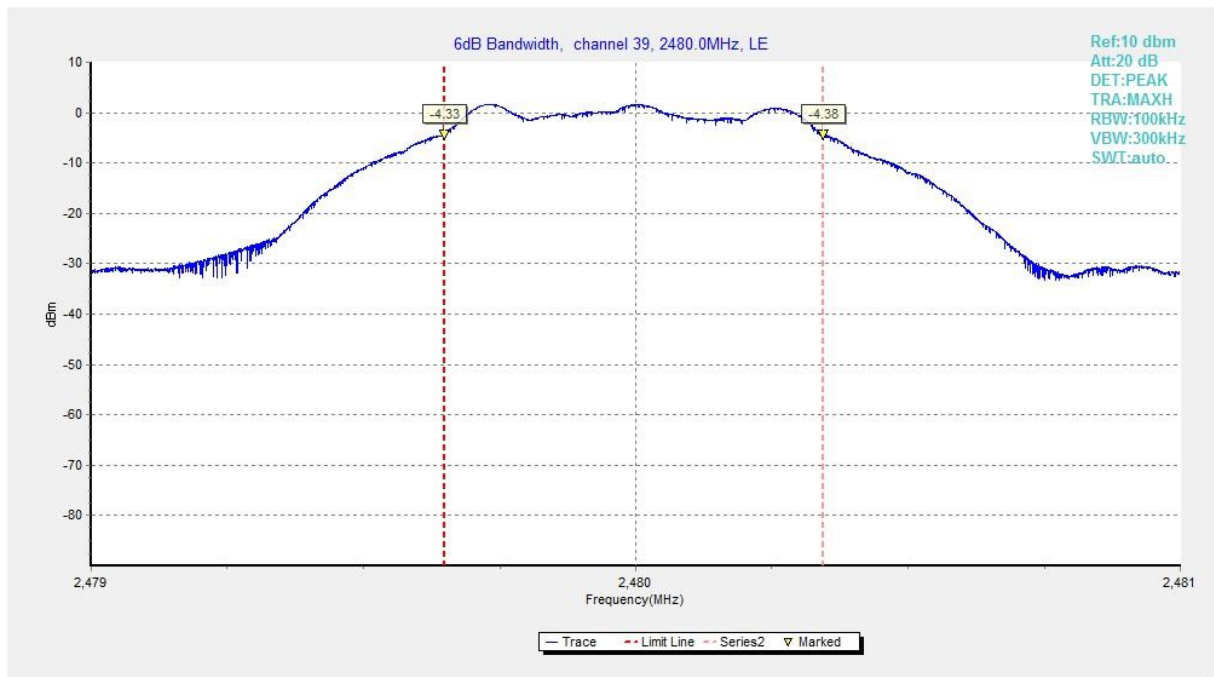


Fig.6 6dB Bandwidth (Ch 39), LE 1M

**A.4 Band Edges Compliance****Measurement Limit:**

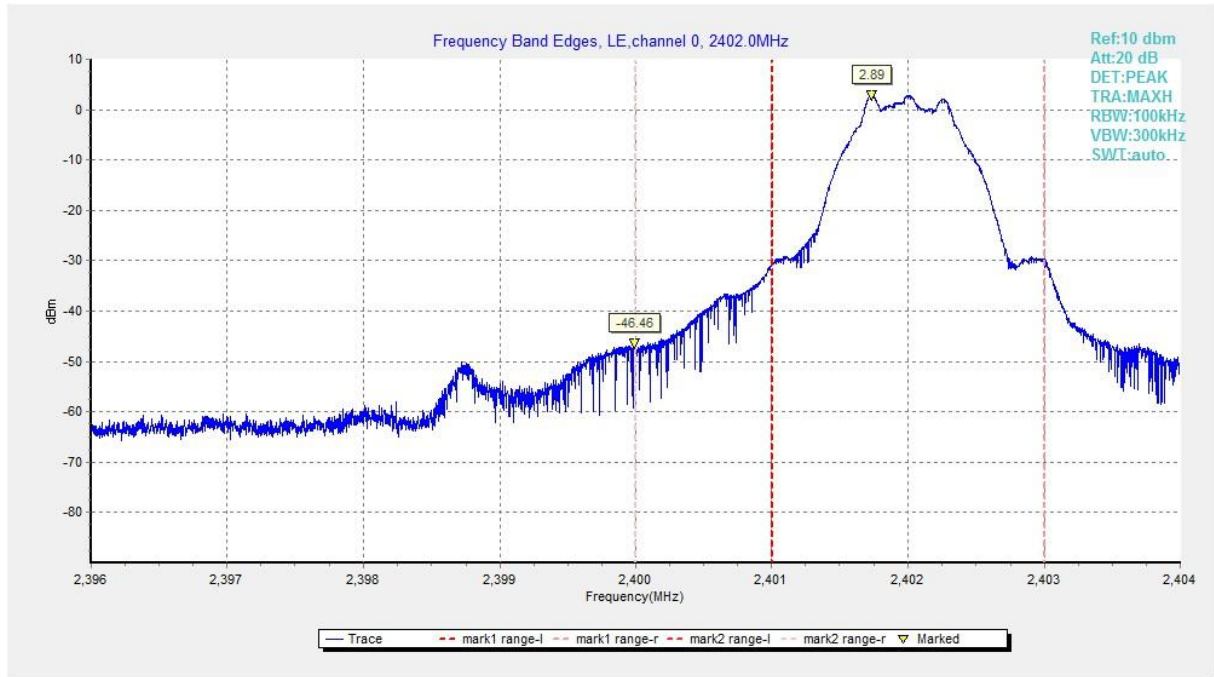
Standard	Limit (dB)
FCC 47 CFR Part 15.247 (d) & RSS-247 section 5.5	> 20

**Measurement Result:**

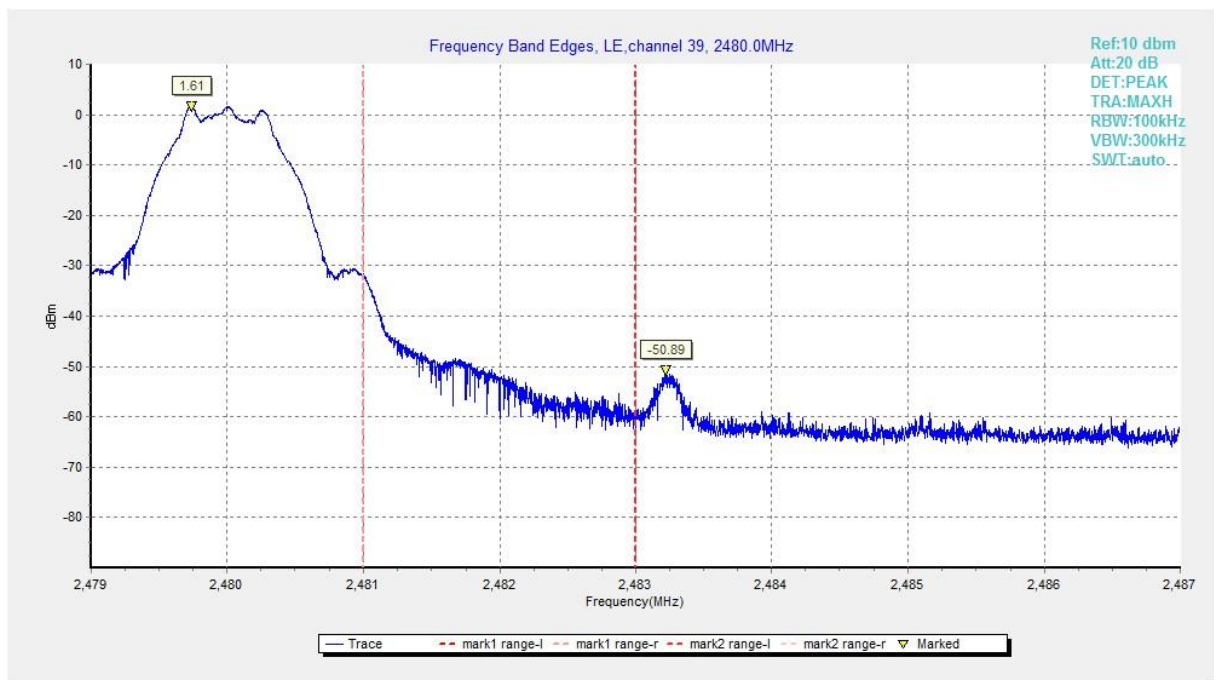
Mode	Frequency (MHz)	Test Results (dBc)		Conclusion
LE 1M	2402(CH0)	Fig.7	-49.35	<b>P</b>
	2480(CH39)	Fig.8	-52.50	<b>P</b>

See below for test graphs.

**Conclusion: PASS**



**Fig.7 Band Edges (Ch 0), LE 1M**



**Fig.8 Band Edges (Ch 39), LE 1M**

**A.5 Transmitter Spurious Emission - Conducted****Measurement Limit:**

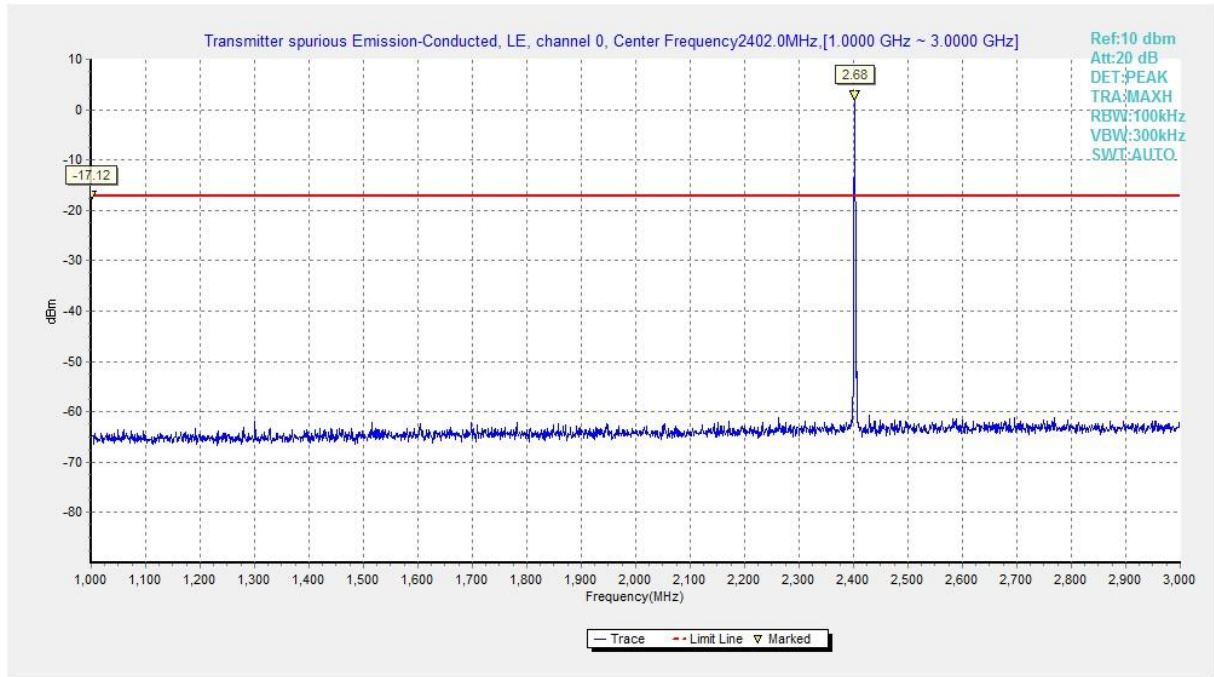
Standard	Limit
FCC 47 CFR Part 15.247 (d) & RSS-247 5.5/RSS-Gen section 6.13	20dB below peak output power in 100 kHz bandwidth

**Measurement Results:**

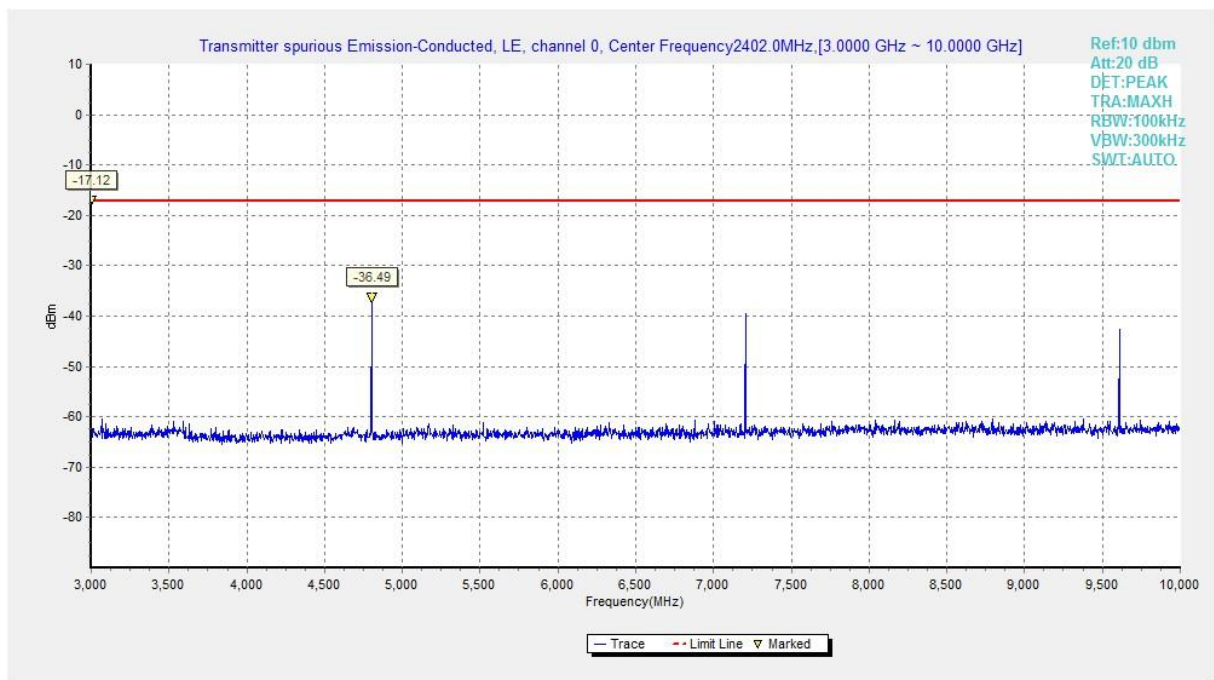
MODE	Channel	Frequency Range	Test Results	Conclusion
LE1M	0	1GHz -3GHz	Fig.9	<b>P</b>
		3GHz-10GHz	Fig.10	<b>P</b>
	19	1GHz -3GHz	Fig.11	<b>P</b>
		3GHz-10GHz	Fig.12	<b>P</b>
	39	1GHz -3GHz	Fig.13	<b>P</b>
		3GHz-10GHz	Fig.14	<b>P</b>
	All channels	30MHz-1GHz	Fig.15	<b>P</b>
		10GHz-26GHz	Fig.16	<b>P</b>

**See below for test graphs.**

**Conclusion: Pass**



**Fig.9 Conducted Spurious Emission (Ch0, 1 GHz-3 GHz), LE 1M**



**Fig.10 Conducted Spurious Emission (Ch0, 3 GHz-10 GHz), LE 1M**

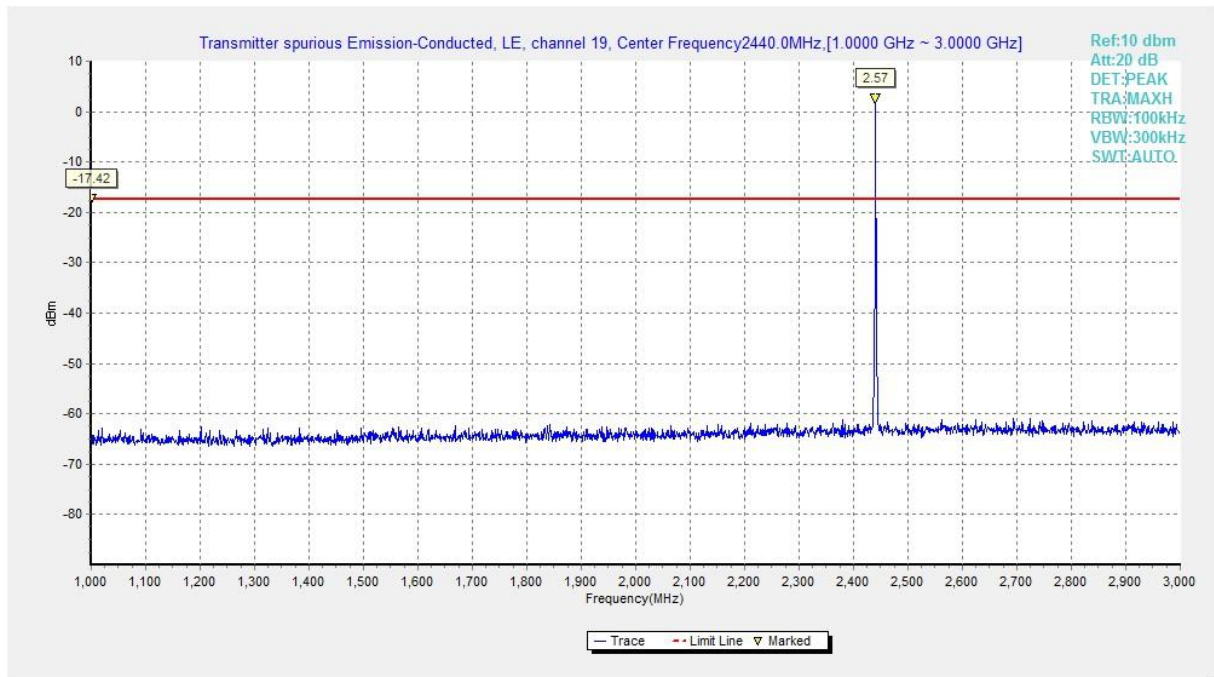


Fig.11 Conducted Spurious Emission (Ch19, 1 GHz-3 GHz), LE 1M

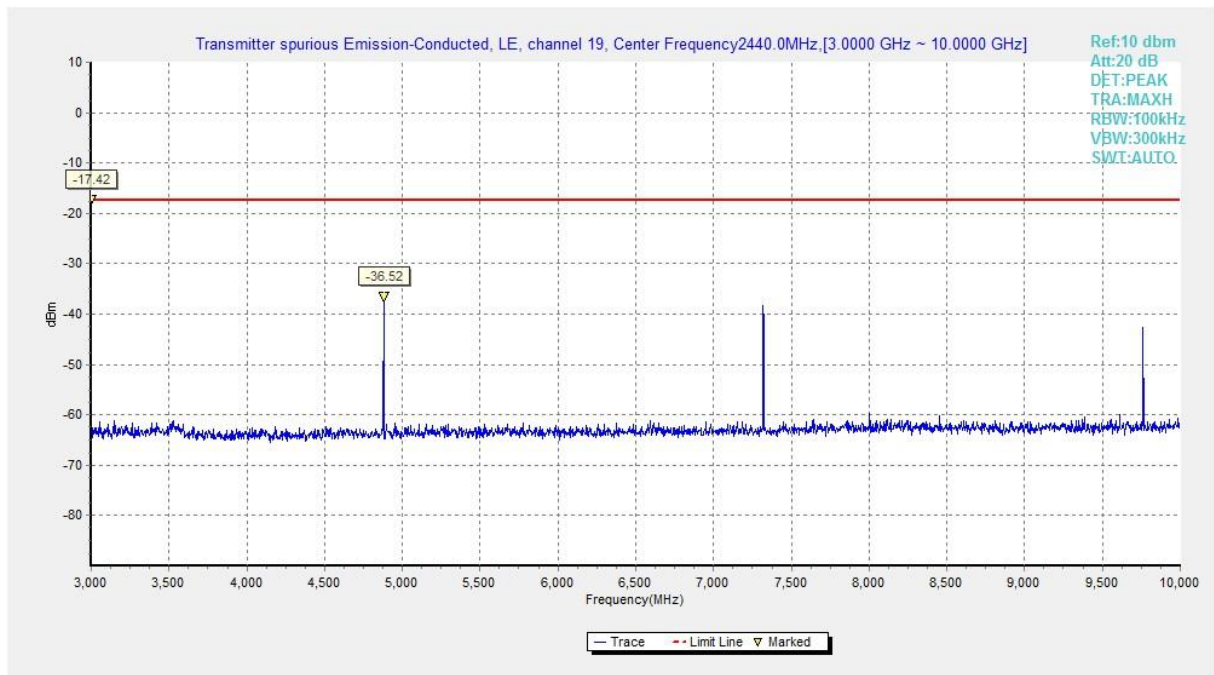
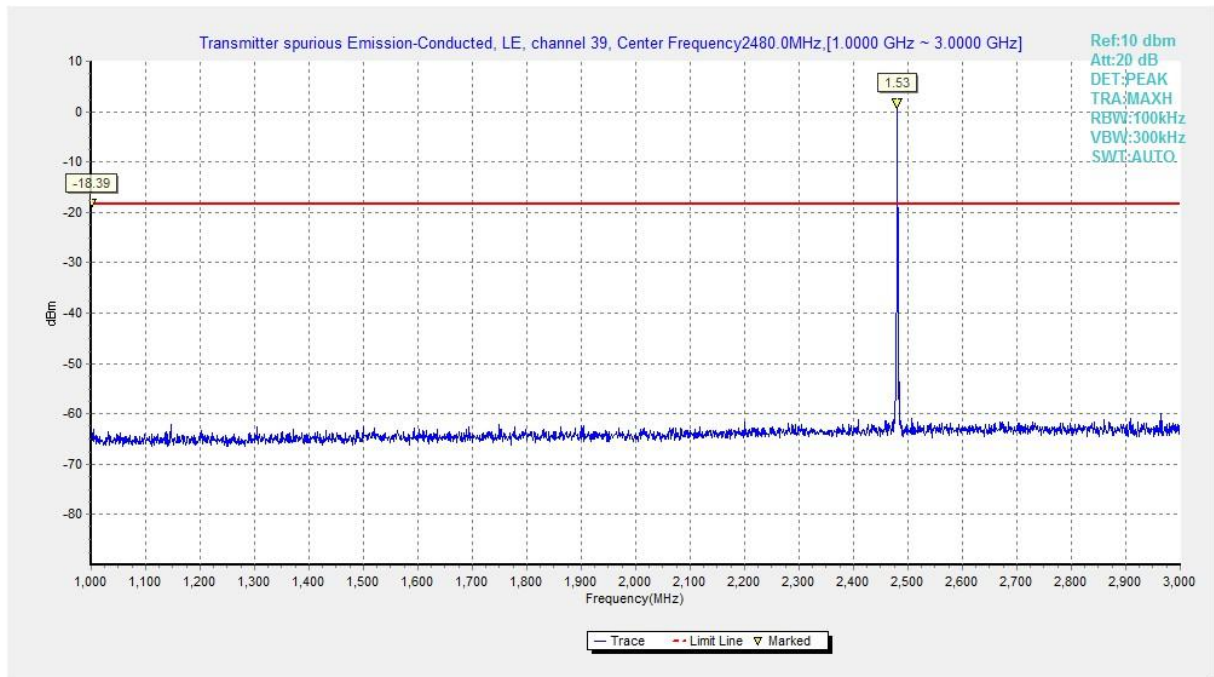
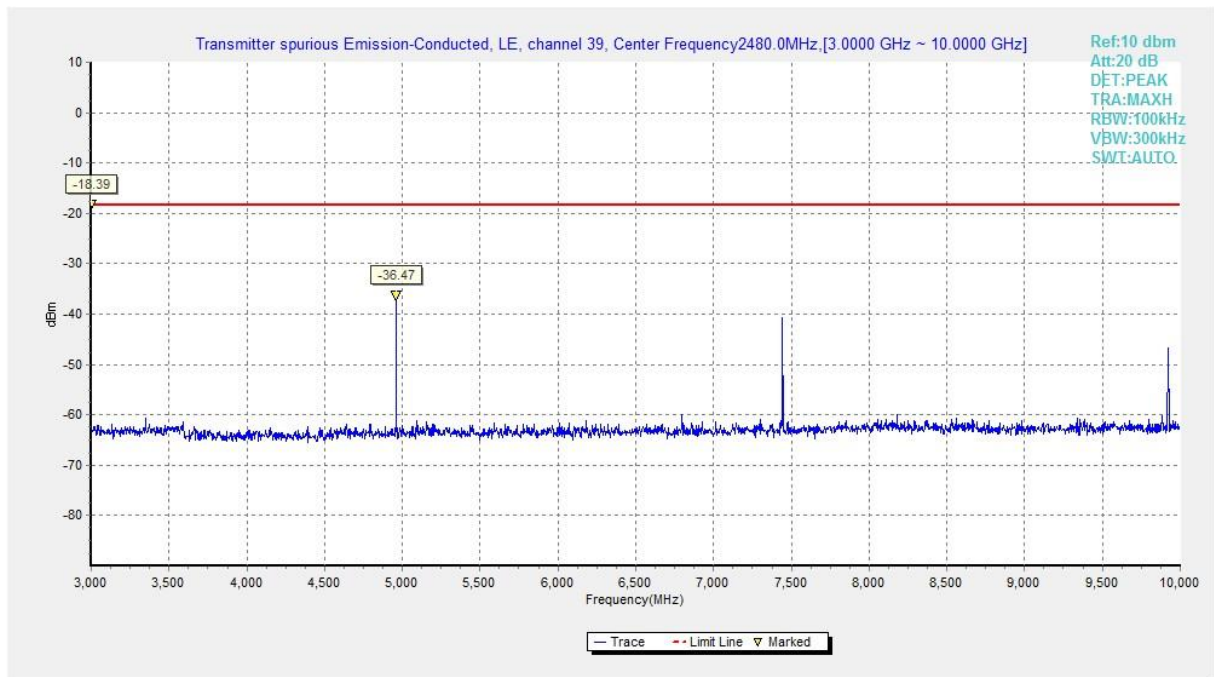


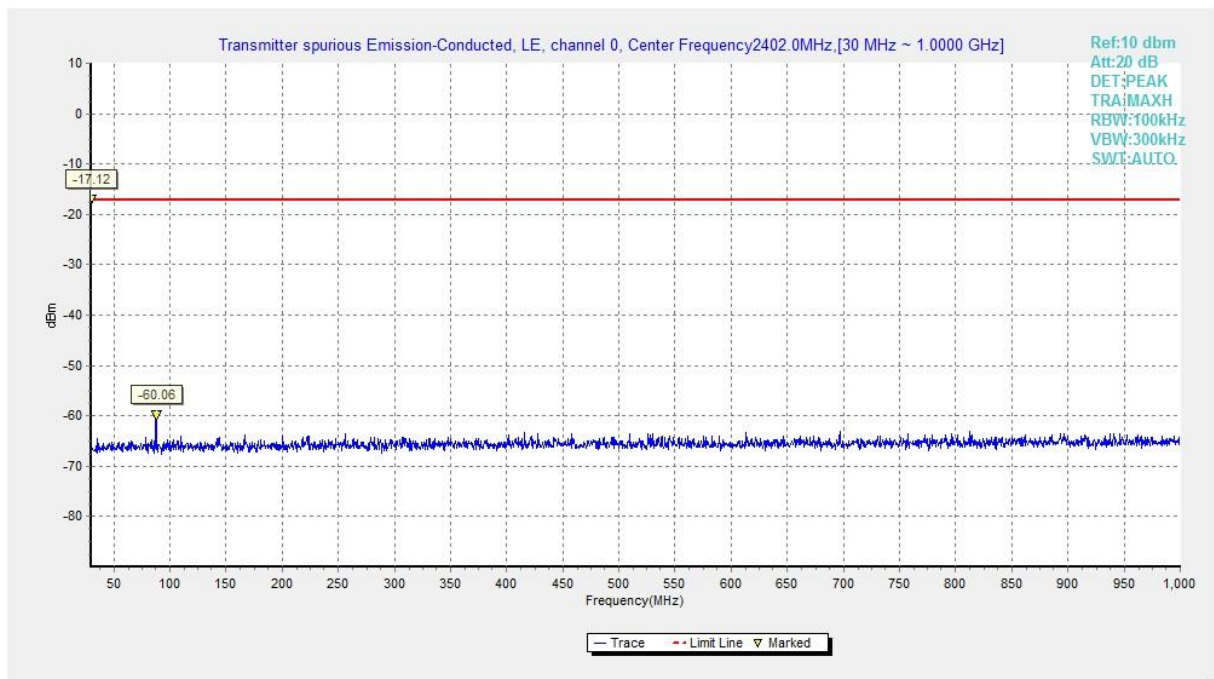
Fig.12 Conducted Spurious Emission (Ch19, 3 GHz-10 GHz), LE 1M



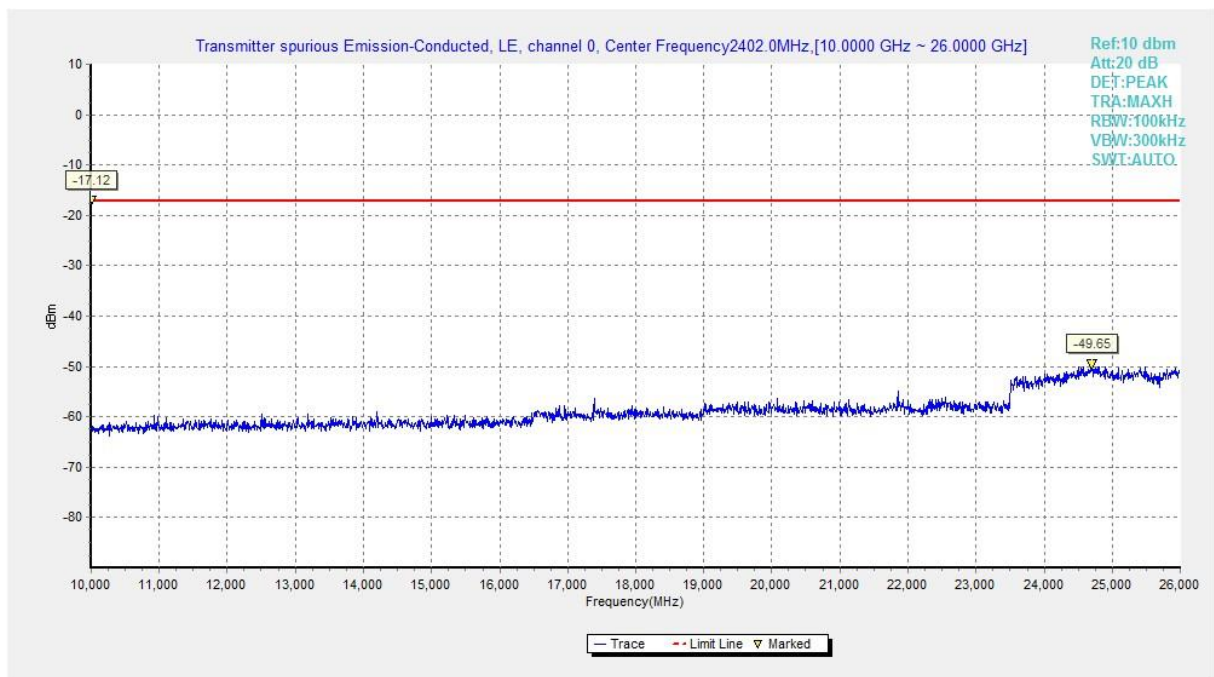
**Fig.13 Conducted Spurious Emission (Ch39, 1 GHz-3 GHz), LE 1M**



**Fig.14 Conducted Spurious Emission (Ch39, 3 GHz-10 GHz), LE 1M**



**Fig.15 Conducted Spurious Emission (All channels, 30 MHz-1 GHz), LE 1M**



**Fig.16 Conducted Spurious Emission (All channels, 10 GHz-26 GHz), 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( $\mu\text{V/m}$ )	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.17	<b>P</b>
	19	1 GHz ~18 GHz	Fig.18	<b>P</b>
	39	1 GHz ~18 GHz	Fig.19	<b>P</b>
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.20	<b>P</b>
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.21	<b>P</b>
	All channels	9 kHz ~30 MHz	Fig.22	<b>P</b>
		30 MHz ~1 GHz	Fig.23	<b>P</b>
		18 GHz ~ 26.5 GHz	Fig.24	<b>P</b>

See below for test graphs.

**Conclusion: Pass**

**GFSK CH0**

Frequency (MHz)	MaxPeak dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2602.295455	49.90	74.00	24.10	H	21
2998.272727	51.57	74.00	22.43	V	23
4803.250000	51.24	74.00	22.76	V	8
9608.125000	53.82	74.00	20.18	V	13
15559.000000	57.32	74.00	16.68	V	19
17890.000000	59.93	74.00	14.07	H	24

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2602.295455	36.74	54.00	17.26	H	21
2998.272727	38.48	54.00	15.52	V	23
4803.250000	38.63	54.00	15.37	V	8
9608.125000	43.69	54.00	10.31	V	13
15559.000000	44.35	54.00	9.65	V	19
17890.000000	46.73	54.00	7.27	H	24

**GFSK CH19**

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2574.659091	49.41	74.00	24.59	H	21
2990.068182	50.81	74.00	23.19	V	23
4883.750000	51.28	74.00	22.72	V	8
7933.125000	51.34	74.00	22.66	H	12
15636.500000	57.63	74.00	16.37	H	20
17892.750000	59.58	74.00	14.42	H	24

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2574.659091	36.31	54.00	17.69	H	21
2990.068182	37.99	54.00	16.01	V	23
4883.750000	42.71	54.00	11.29	V	8
7933.125000	38.16	54.00	15.84	H	12
15636.500000	44.98	54.00	9.02	H	20
17892.750000	46.65	54.00	7.35	H	24

**GFSK CH39**

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2633.818182	50.28	74.00	23.72	V	21
2972.795455	51.12	74.00	22.88	H	23
4960.250000	52.32	74.00	21.68	V	8
9920.312500	54.59	74.00	19.41	H	14
15669.750000	58.00	74.00	16.00	V	20
17914.750000	59.08	74.00	14.92	V	24

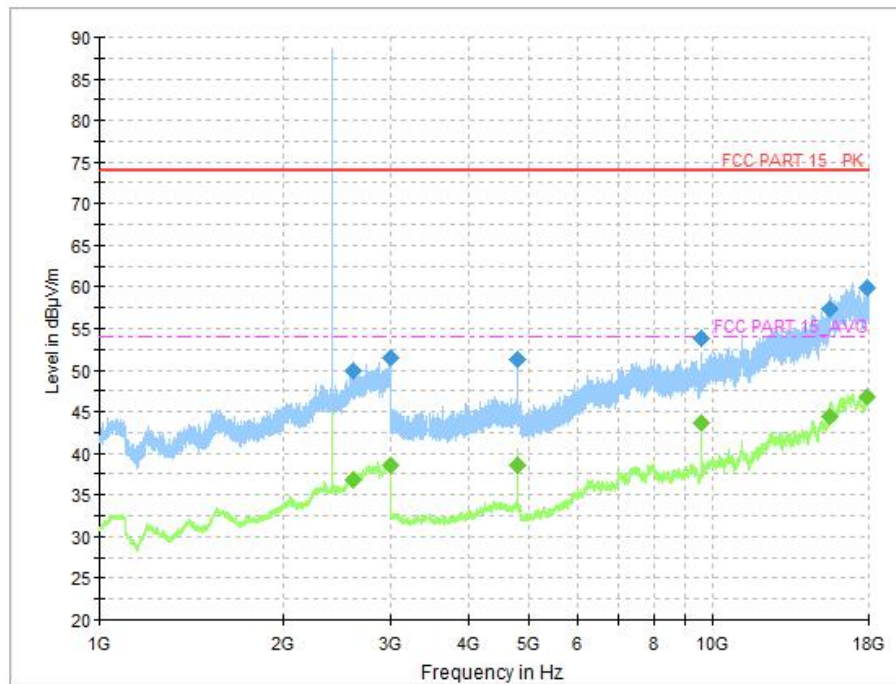
Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
2633.818182	36.98	54.00	17.02	V	21
2972.795455	38.13	54.00	15.87	H	23
4960.250000	41.48	54.00	12.52	V	8
9920.312500	44.23	54.00	9.77	H	14
15669.750000	45.34	54.00	8.66	V	20
17914.750000	46.41	54.00	7.59	V	24

**Note:**

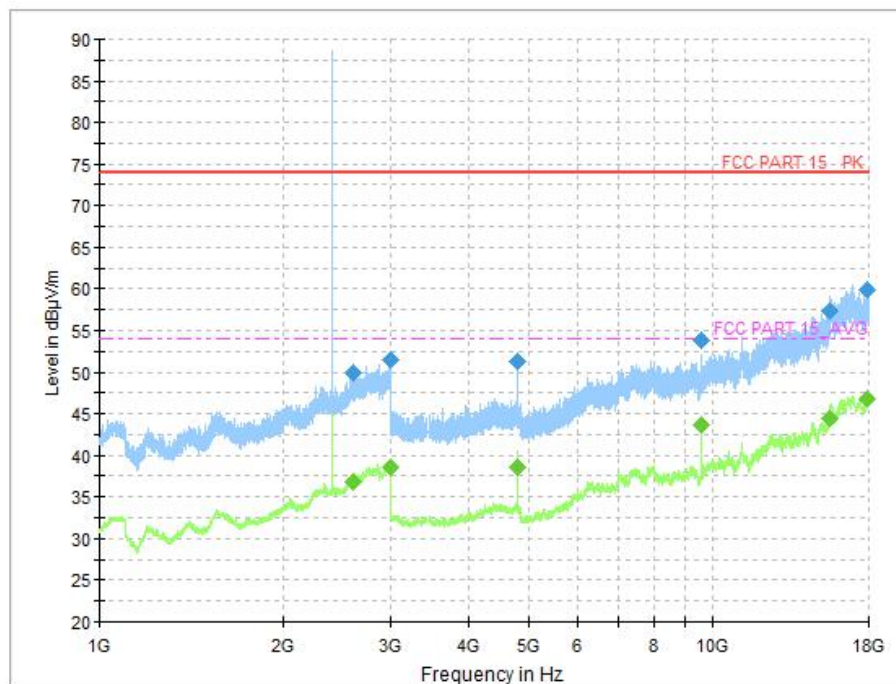
A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss.  $P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

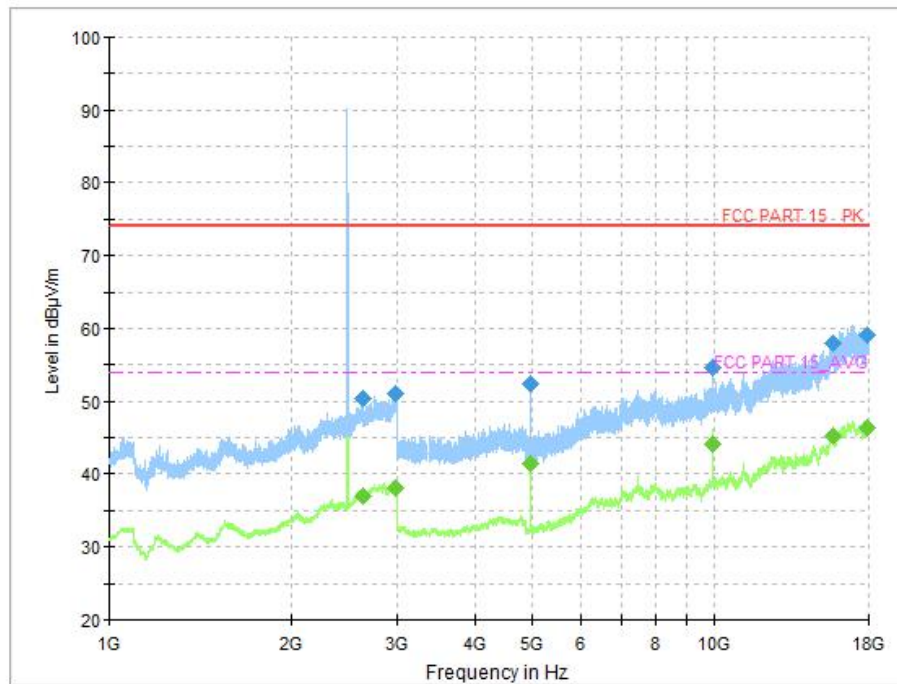
Result=  $P_{Mea}$  +Cable Loss +Antenna Factor-Gain of the preamplifier.



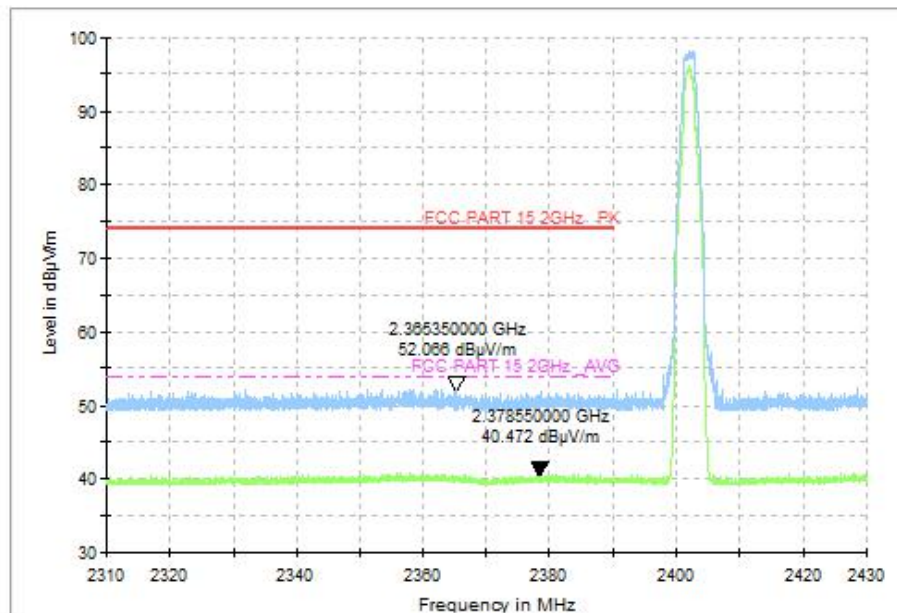
**Fig.17 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~18 GHz), LE 1M**



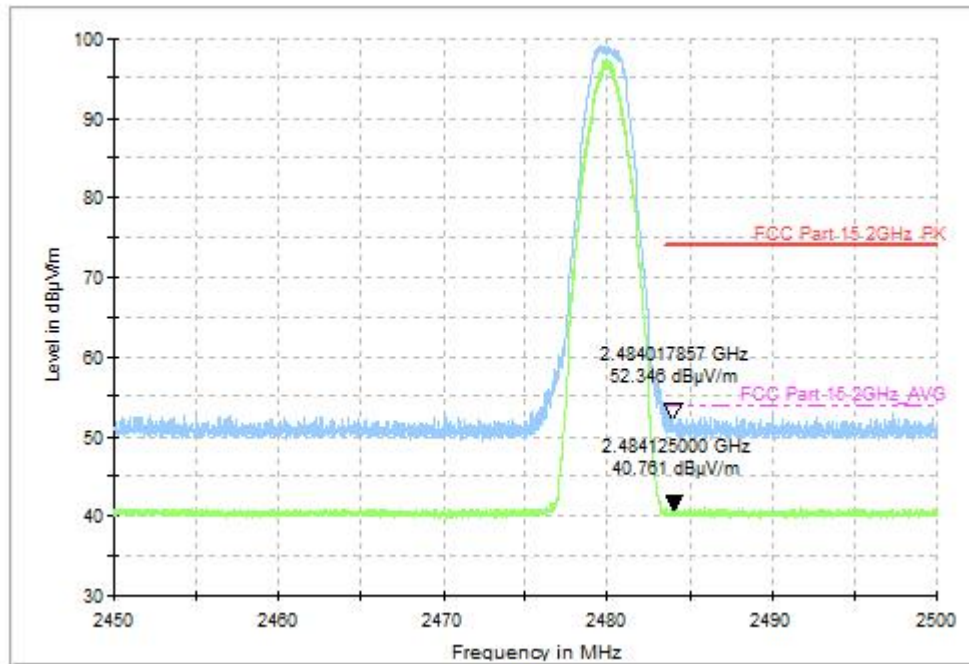
**Fig.18 Radiated Spurious Emission (GFSK, Ch19, 1 GHz ~18 GHz), LE 1M**



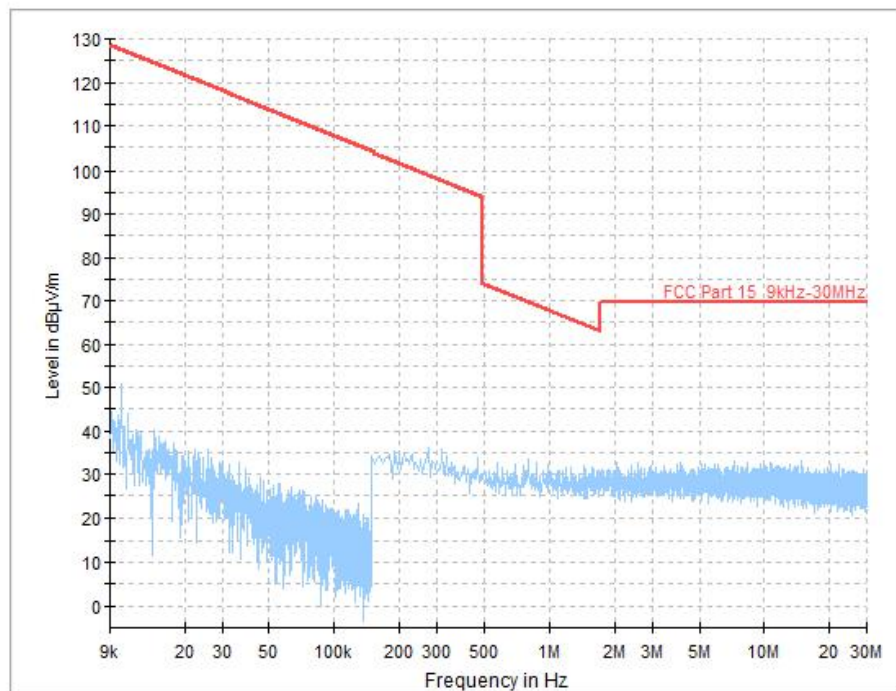
**Fig.19 Radiated Spurious Emission (GFSK, Ch39, 1 GHz ~18 GHz), LE 1M**



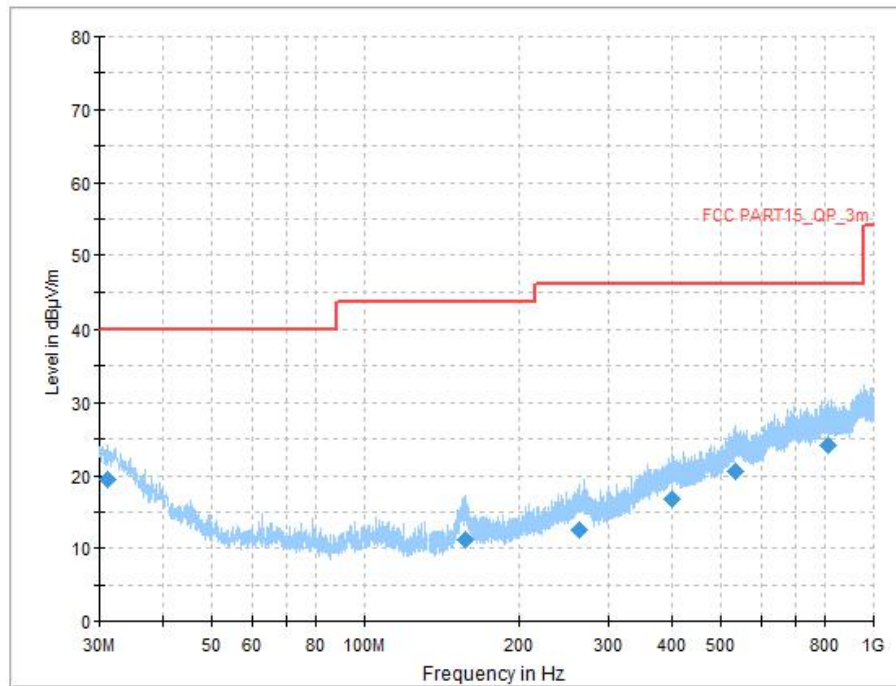
**Fig.20 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz), LE 1M**



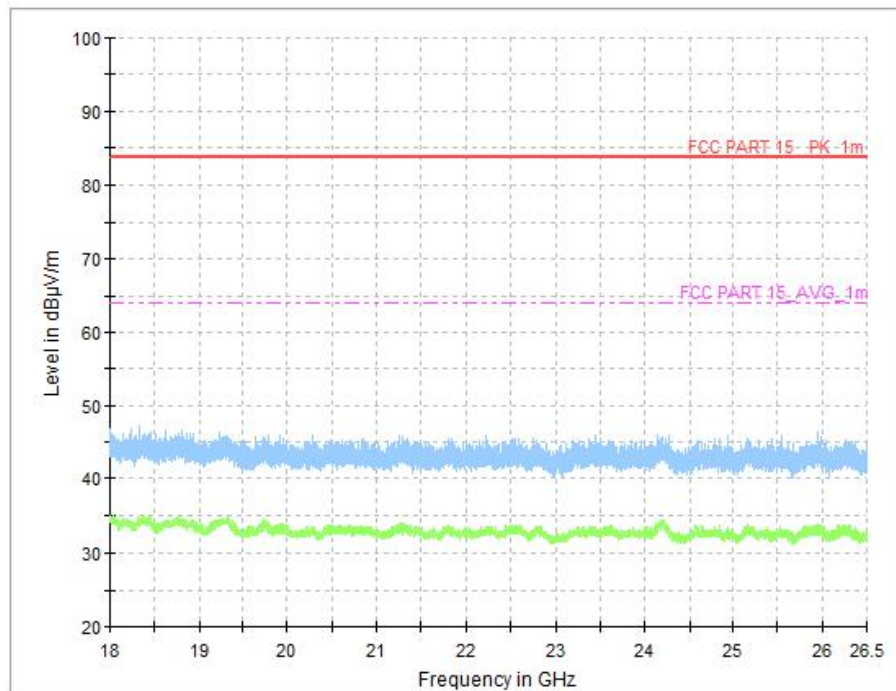
**Fig.21 Radiated Band Edges (GFSK, Ch39, 2450GHz~2500GHz), LE 1M**



**Fig.22 Radiated Spurious Emission (All Channels, 9 kHz-30 MHz), LE 1M**



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



**Fig.24 Radiated Spurious Emission (All Channels, 18 GHz-26.5 GHz), LE 1M**

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