

# TEST REPORT

Product Name : LED Luminaires  
Model Number : MXL1212S-14LED22K92750,  
RGD-FM2/14/22W/MK/MS/2R,  
FMBS14R16E92750,  
MXL1214S-13LED22K92750,  
RGD-FM2/13/22W/MK/MS/PC,  
FMRS13R14E92750  
FCC ID : 2AL76-121214

Prepared for : ZHEJIANG YANKON GROUP CO.,LTD  
Address : No.208 Tongjiang Middle Road Shangyu Economic  
Development Zone, SHAOXING Zhejiang China  
  
Prepared by : EMTEK (NINGBO) CO., LTD.  
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Report Number : ENB2412060172W00301R  
Date(s) of Tests : December 06, 2024 to December 30, 2024  
Date of Issue : January 18, 2025

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## 1 TEST RESULT CERTIFICATION

Applicant : ZHEJIANG YANKON GROUP CO.,LTD  
Address : No. 208 Tongjiang Middle Road Shangyu Economic Development Zone,  
SHAOXING Zhejiang China  
Manufacturer : ZHEJIANG YANKON GROUP CO.,LTD  
Address : No. 208 Tongjiang Middle Road Shangyu Economic Development Zone,  
SHAOXING Zhejiang China  
EUT : LED Luminaires  
Model Name : MXL1212S-14LED22K92750, RGD-FM2/14/22W/MK/MS/2R,  
FMBS14R16E92750, MXL1214S-13LED22K92750,  
RGD-FM2/13/22W/MK/MS/PC, FMRS13R14E92750  
Trademark : N/A

Measurement Procedure Used:


APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS

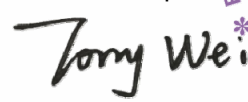
The above equipment was tested by EMTEK(NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.249

The test results of this report relate only to the tested sample identified in this report.

Date of Test : December 06, 2024 to December 30, 2024

Prepared by :   
WK Luo/Engineer

Reviewer :   
June Gao/Supervisor

Approved & Authorized Signer :   
Tony Wei/Manager

## Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENB2412060172W00301R	/	Original Report



## 2 EUT TECHNICAL DESCRIPTION

Product:	LED Luminaires
Model Number:	MXL1212S-14LED22K92750, RGD-FM2/14/22W/MK/MS/2R, FMBS14R16E92750, MXL1214S-13LED22K92750, RGD-FM2/13/22W/MK/MS/PC, FMRS13R14E92750 Note: Among them, MXL1212S-14LED22K92750, RGD-FM2/14/22W/MK/MS/2R and FMBS14R16E92750 are only different names, the test model is MXL1212S-14LED22K92750 MXL1214S-13LED22K92750, RGD-FM2/13/22W/MK/MS/PC and FMRS13R14E92750 are just different names, the test model is MXL1214S-13LED22K92750. MXL1212S-14LED22K92750 and MXL1214S-13LED22K92750 are only different in name and appearance, and the others are the same. We choose MXL1214S-13LED22K92750 for testing.
Sample Number:	ENB2412060172W003-1-1
Test Voltage:	AC 120V/60Hz
Modulation:	GFSK
Frequency Range:	5800±75 MHz
Max Transmit Power:	86.35 dBuV/m
Antenna:	PCB antenna
Antenna Gain:	2 dBi
Temperature Range:	-20°C ~ 70°C
Date of Received:	December 06, 2024

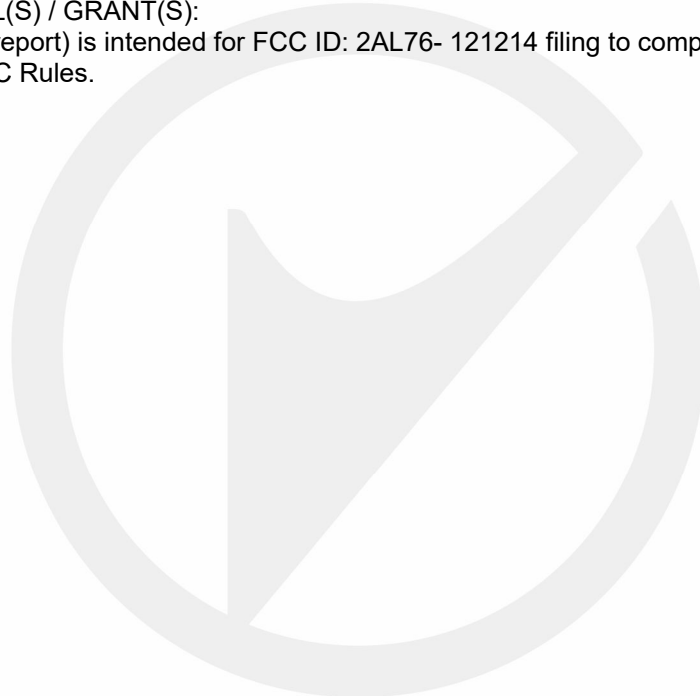
*Note: for more details, please refer to the user's manual of the EUT.*

### 3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.207	Conducted Emission	N/A	NOTE1
15.209	Radiated Emission	PASS	
15.249	Radiated Spurious Emission	PASS	
15.249	Band edge test	PASS	
15.249	20dB Bandwidth	PASS	
15.203	Antenna Requirement	PASS	
<p>NOTE1: N/A is an abbreviation for not applicable</p> <p>NOTE2: The report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.</p>			

#### RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AL76- 121214 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.



## 4 TEST METHODOLOGY

### 4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:  
 FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C

### 4.2 MEASUREMENT EQUIPMENT USED

#### 4.2.1 Conducted Emissions Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-001	EMI Test Receiver	R & S	ESCI	101108	Dec 28, 2024	1 Year
ENE-004	L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	July 02, 2024	1 Year
ENE-006	Pulse Limiter	MTS-systemtechnik	IMP-136	2611115-001-0033	July 02, 2024	1 Year
ENE-278	RF Switching Unit	HTEC	HRSU	222101	July 02, 2024	1 Year
ENE-083	RF Cable	Hubber Suhner/Swiss	CBL-RE-3	/	May 30, 2024	1 Year
ENE-162-2	RF Cable	TIMES	2M(N-N)	605236-0002	May 30, 2024	1 Year
ENE-149	Conduction Test Room 1#	SKET	11.5*5*4m	/	Oct. 29, 2024	3 Year

#### 4.2.2 Radiated Emission Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-185	EMI Test Receiver	R&S	ESR7	102480	Apr 25, 2024	1 Year
ENE-190	Antenna Multiple	Schwarzbeck	VULB 9163	01499	May 18, 2024	1 Year
ENE-195	Pre-Amplifier	JS Denki	PA09K03-40	JSPA21019	Apr 25, 2024	1 Year
ENE-204	Low Frequency Notch Filter RF Switching	JS Denki	JSDSW-F	JSDSW2211D02	Apr 25, 2024	1 Year
ENE-251	6dB Attenuator	Mini-Circuits	UNAT-6+	11542	July 02, 2024	1 Year
ENE-279-1	RF Cable	Rosenberger	L17-C001-7000	/	May 30, 2024	1 Year
ENE-279-2	RF Cable	Rosenberger	L17-C001-3500	/	May 30, 2024	1 Year
ENE-279-3	RF Cable	Rosenberger	L17-C001-1500	/	May 30, 2024	1 Year
ENE-279-4	RF Cable	Rosenberger	/	/	May 30, 2024	1 Year
ENE-279-5	RF Cable	Rosenberger	/	/	May 30, 2024	1 Year
ENE-279-6	RF Cable	Rosenberger	L08-C446-1500	/	May 30, 2024	1 Year

ENE-171	EXA Signal Analyzer	KEYSIGHT	N9010B	MY60242467	Oct. 28, 2024	1 Year
ENE-191	Horn Antenna	Schwarzbeck	BBHA 9120 D	02588	May 18, 2024	2 Year
ENE-198	Pre-Amplifier	JS Denki	PA0118-50	JSPA21022	Apr 25, 2024	1 Year
ENE-281-1	RF Cable	Rosenberger	LA2-C125-3500	/	May 30, 2024	1 Year
ENE-281-2	RF Cable	Rosenberger	LA2-C125-1500	/	May 30, 2024	1 Year
ENE-281-3	RF Cable	Rosenberger	LU7-C1511-1200	/	May 30, 2024	1 Year
ENE-285-1	RF Cable	Rosenberger	LA2-C199-6500	/	May 30, 2024	1 Year
ENE-206	High Frequency Notch FilterRf Switching	JS Denki	JSDSW-F	202083582	Apr 25, 2024	1 Year
ENE-144	3-Meter Anechoic Chamber 2#	SKET	9*6*6m	/	June 19, 2022	3 Year

#### 4.2.3 Radio Frequency Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-256	EXA Signal Analyzer	Keysight	N9010B	MY62060219	July 02, 2024	1 Year
ENE-172	RF Control Unit	Tonscend	JS0806-2(V.6E)	21L8060521	Feb. 27, 2024	1 Year



### 4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

The EUT has been tested under its typical operating condition so those modulation and channel were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5725	2	5800	3	5875
Note: N/A					

Test Frequency and Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5726	2	5800	3	5874
Note: N/A					

### 4.4 TEST SOFTWARE

Item	Software
Conducted Emission:	JSDEMC-CE(V 3.3)
Radiated Emission:	JSDEMC-RE(V 3.3)

## 5 FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

### 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

**Designation by FCC**

Designation Number: CN1354

Test Firm Registration Number: 427606

**Accredited by A2LA**

The Certificate Number is 4321.03.

The certificate is valid until May 31, 2025

**Designation by Industry Canada**

The Conformity Assessment Body Identifier is CN0114

Name of Firm

: EMTEK (NINGBO) CO., LTD.

Site Location

: No. 8, Building 8, Lane 216, Qingyi Road, Hi-Tech Zone, Ningbo, Zhejiang, China

## 6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

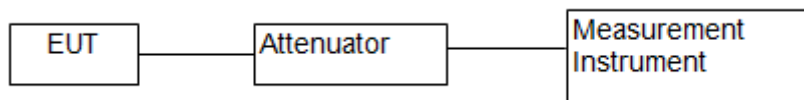
Measurement Uncertainty for a level of Confidence of 95%



## 7 SETUP OF EQUIPMENT UNDER TEST

### 7.1 RADIO FREQUENCY TEST SETUP 1

The EUT wireless component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



### 7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

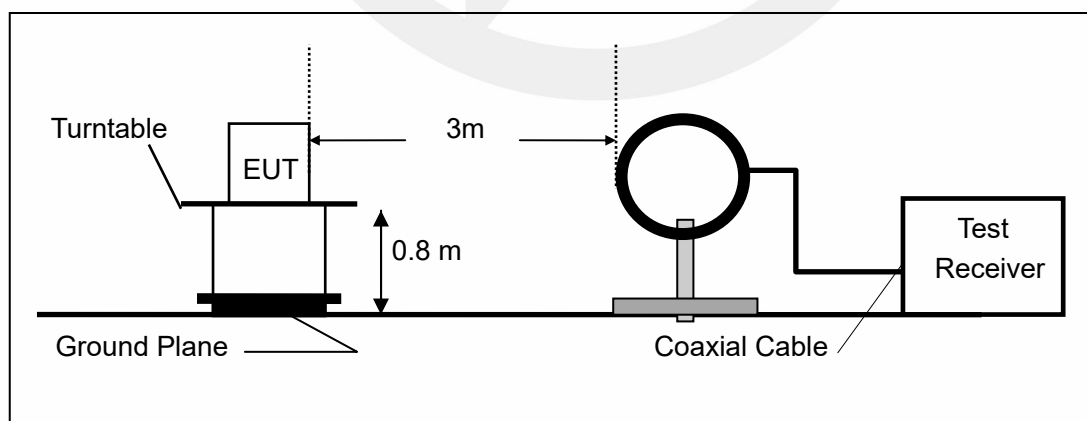
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

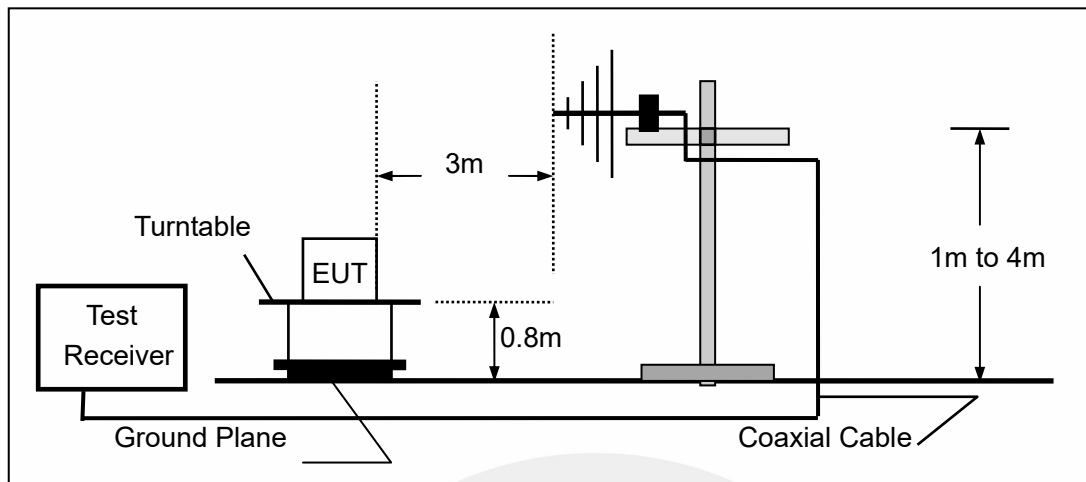
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

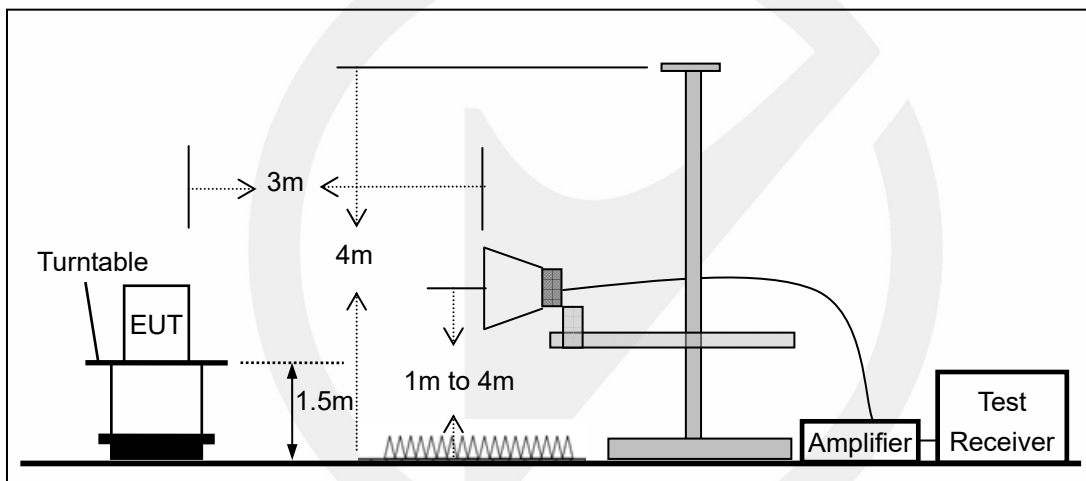
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 8 TEST REQUIREMENTS

### 8.1 BANDWIDTH TEST

#### 8.1.1 Applicable Standard

According to FCC Part 15.249

#### 8.1.2 Conformance Limit

N/A

#### 8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 8.1.4 Test Procedure

The EUT was operating in controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW  $\geq 1\%$  of the 20 dB bandwidth (100KHz)

Set the video bandwidth (VBW)  $\geq$  RBW (300KHz).

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

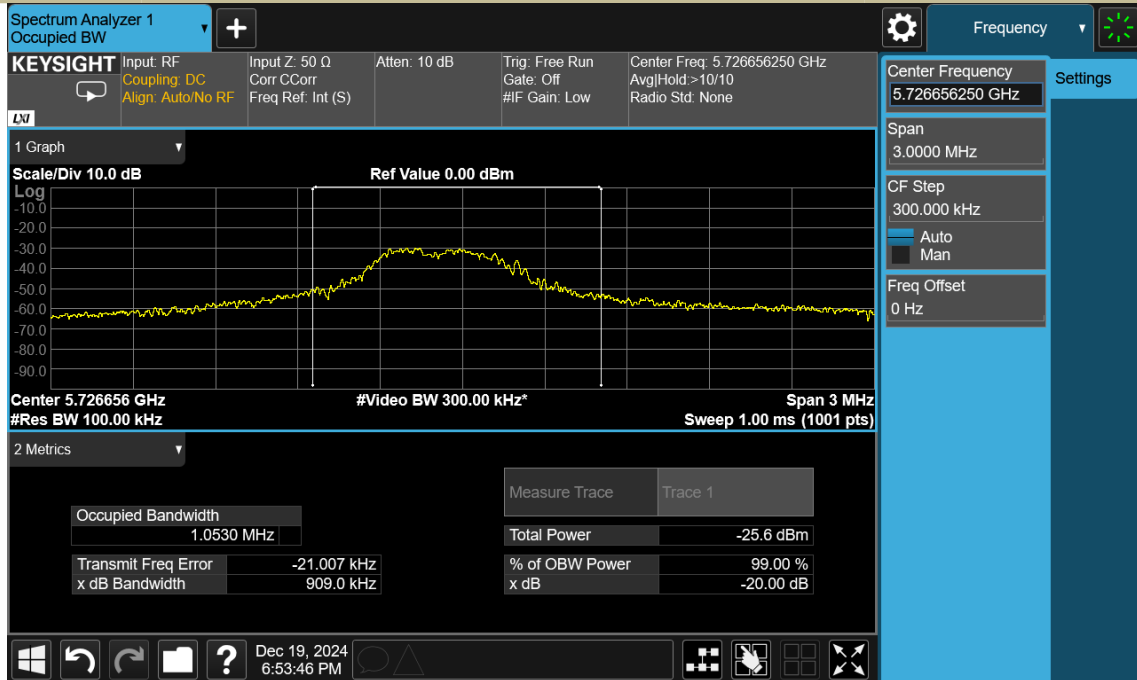
Measure and record the results in the test report.

#### Test Results

Temperature:	26° C
Relative Humidity:	43%
ATM Pressure:	1011 mbar

Operation Mode	Channel Frequency (MHz)	20db Measurement Bandwidth (kHz)	99% Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
GFSK	5726	909.0	1.2709	N/A	PASS
GFSK	5800	998.5	1.2099	N/A	PASS
GFSK	5874	940.9	1.2703	N/A	PASS
Note: N/A (Not Applicable).					

Test Model	-20dB Occupied Bandwidth Channel : 5726 MHz
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Test Model	-20dB Occupied Bandwidth Channel : 5800 MHz
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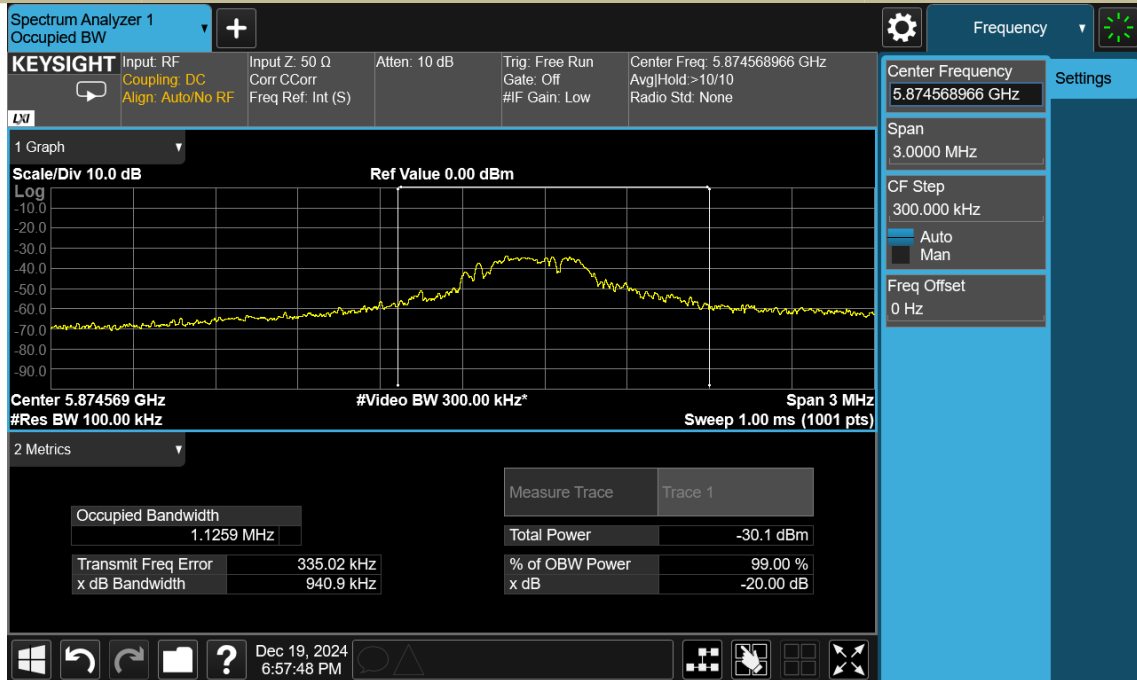




Test Model

-20dB Occupied Bandwidth

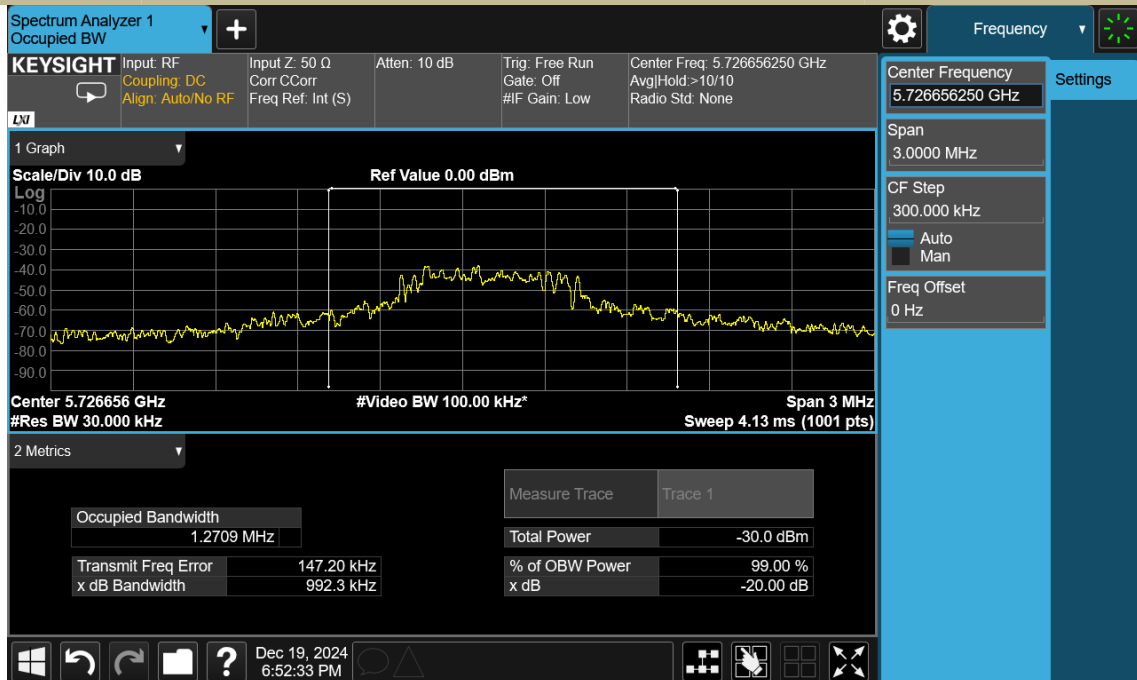
Channel : 5874 MHz



Test Model

99% Occupied Bandwidth

Channel : 5726 MHz



Test Model

99% Occupied Bandwidth

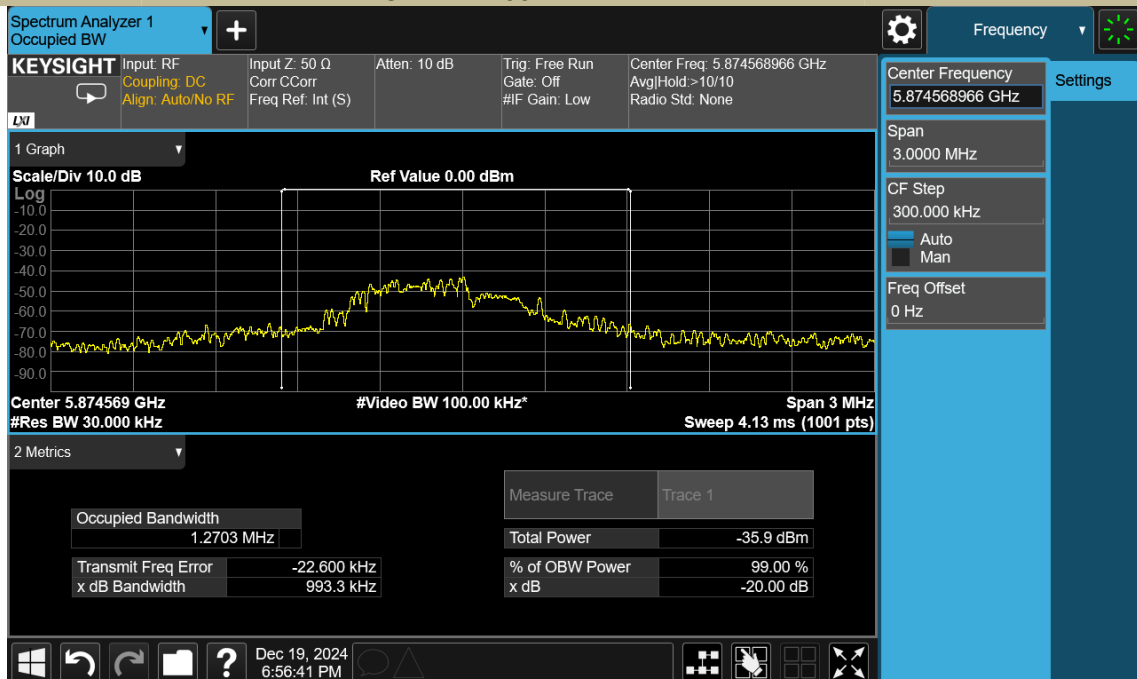
Channel : 5800 MHz



Test Model

99% Occupied Bandwidth

Channel : 5874 MHz



## 8.2 RADIATED SPURIOUS EMISSION

### 8.2.1 Applicable Standard

According to FCC Part 15.249 and 15.209

### 8.2.2 Conformance Limit

According to FCC Part 15.249: 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)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

Field strength of fundamental and Field strength of harmonics Limit:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50(94 dBV/m)	500(54 dBV/m)
2400-2483.5 MHz	50(94 dBV/m)	500(54 dBV/m)
5725-5875 MHz	50(94 dBV/m)	500(54 dBV/m)
24.0-24.25 GHz	250(108 dBV/m)	2500(68 dBV/m)

As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation

For this report

Fundamental Frequency	Field Strength Of Fundamental	Field Strength of Spurious Emissions
5725-5875 MHz	AV:94 dBuV/m at 3m distance	AV:54 dBuV/m at 3m distance
	PK:114 dBuV/m at 3m distance	PK:74 dBuV/m at 3m distance

### 8.2.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

### 8.2.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz(1GHz to 25GHz), 100 kHz for  $f < 1$  GHz(30MHz to 1GHz)

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{dwell time}/100 \text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

### 8.2.5 Test Results

Temperature:	19° C
Relative Humidity:	52%
ATM Pressure:	101 mbar

# Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =  $40\log(\text{Specific distance/ test distance})$  (dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

# Field Strength of the fundamental signal

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
5726.485	V	84.25	69.38	114	94	-29.75	-24.62
5726.485	H	70.44	55.93	114	94	-43.56	-38.07
5801.200	V	86.35	71.47	114	94	-27.65	-22.53
5800.660	H	77.91	63.15	114	94	-36.09	-30.85
5874.400	V	80.86	75.42	114	94	-33.14	-18.58
5875.160	H	69.84	51.73	114	94	-44.16	-42.27

Note: (1) Correct Factor= Antenna Factor +Cable Loss- Amplifier Gain

(2) Emission Level= Reading Level+Probe Factor +Cable Loss

# Out of Band Emissions

Test mode: GFSK

Frequency:

Channel : 5726 MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5722.486	H	42.15	74	29.37	54
5712.914	V	52.06	74	36.98	54

Test mode: GFSK

Frequency:

Channel : 5874 MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5885.383	H	42.46	74	27.58	54
5892.489	V	47.82	74	32.96	54

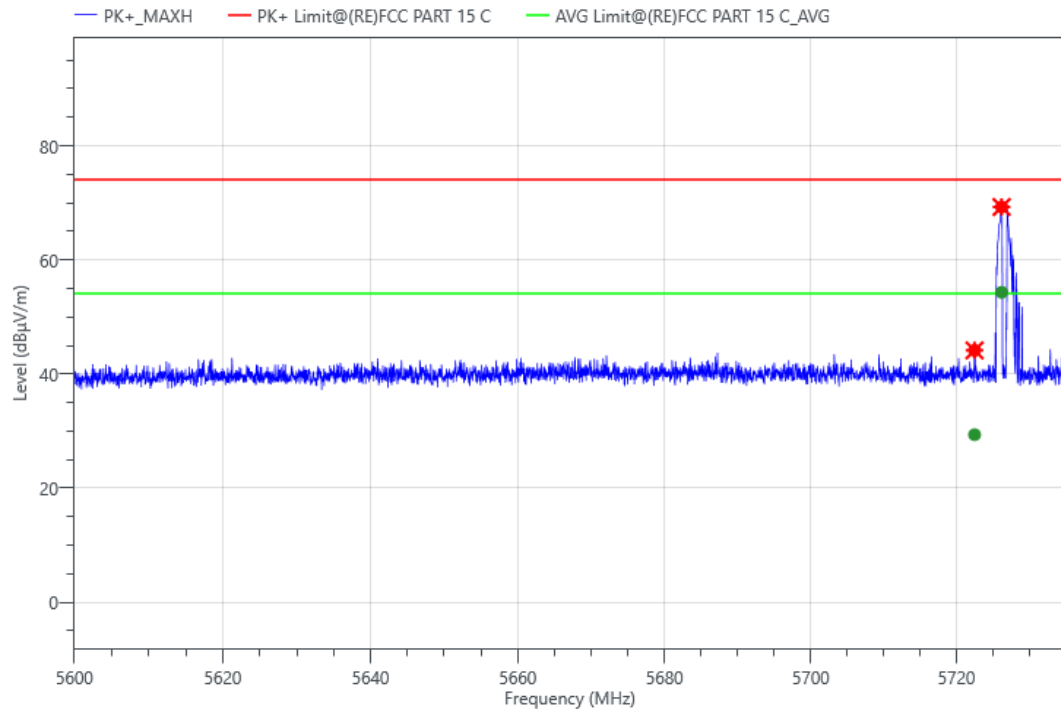
**Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

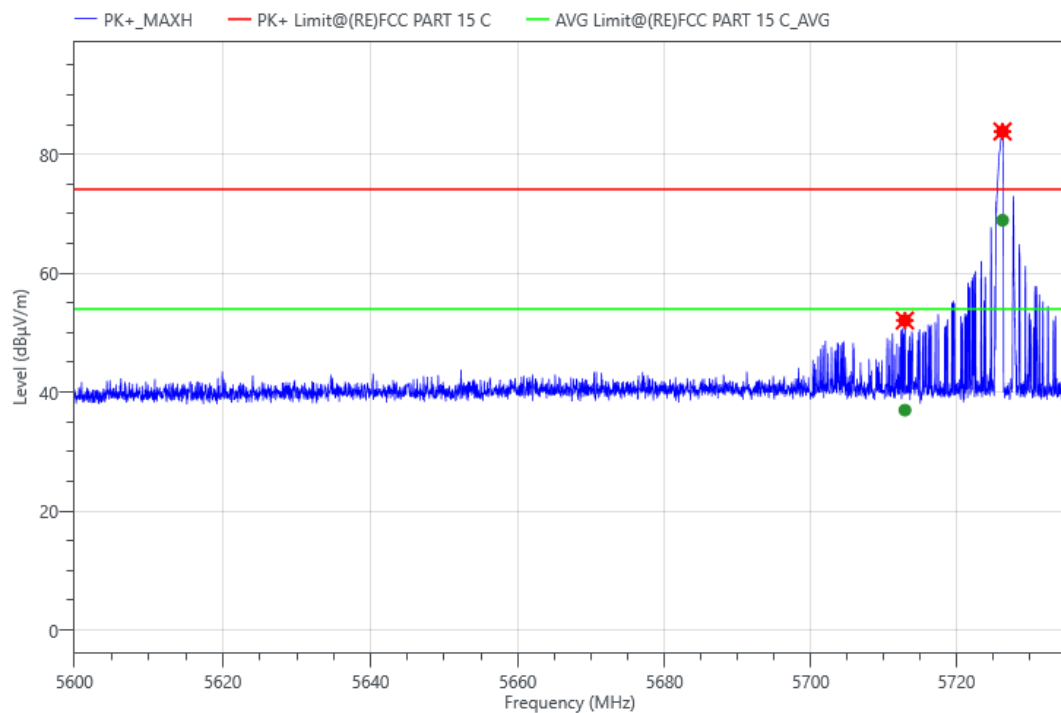
(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4)Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

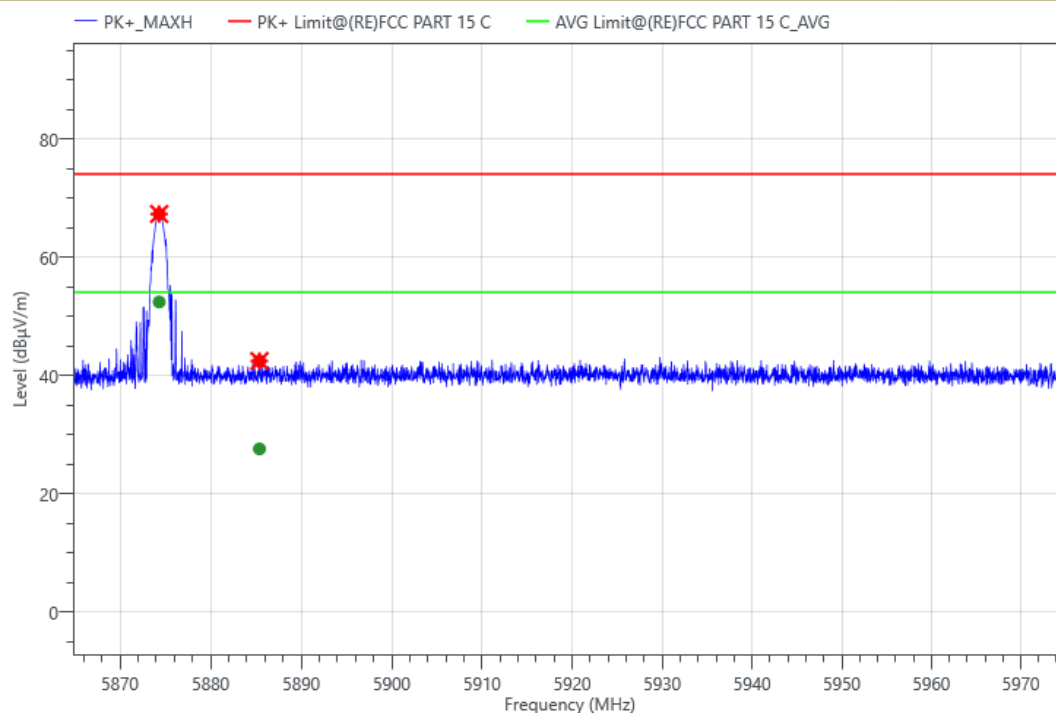
Spurious Emission in Restricted Band 5600-5735 MHz		
Test Model	Zigbee	
Channel: 5726 MHz		H



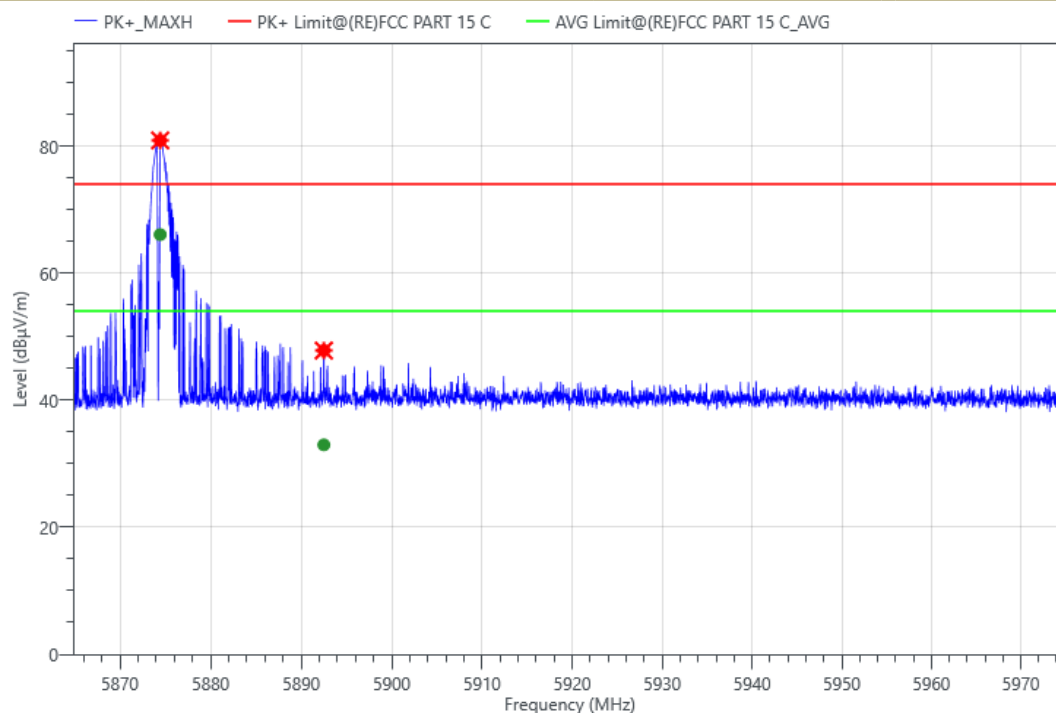
Spurious Emission in Restricted Band 5600-5735 MHz		
Test Model	Zigbee	
Channel: 5726 MHz		V



Spurious Emission in Restricted Band 5865-5975 MHz		
Test Model	Zigbee	
Channel: 5874 MHz		H

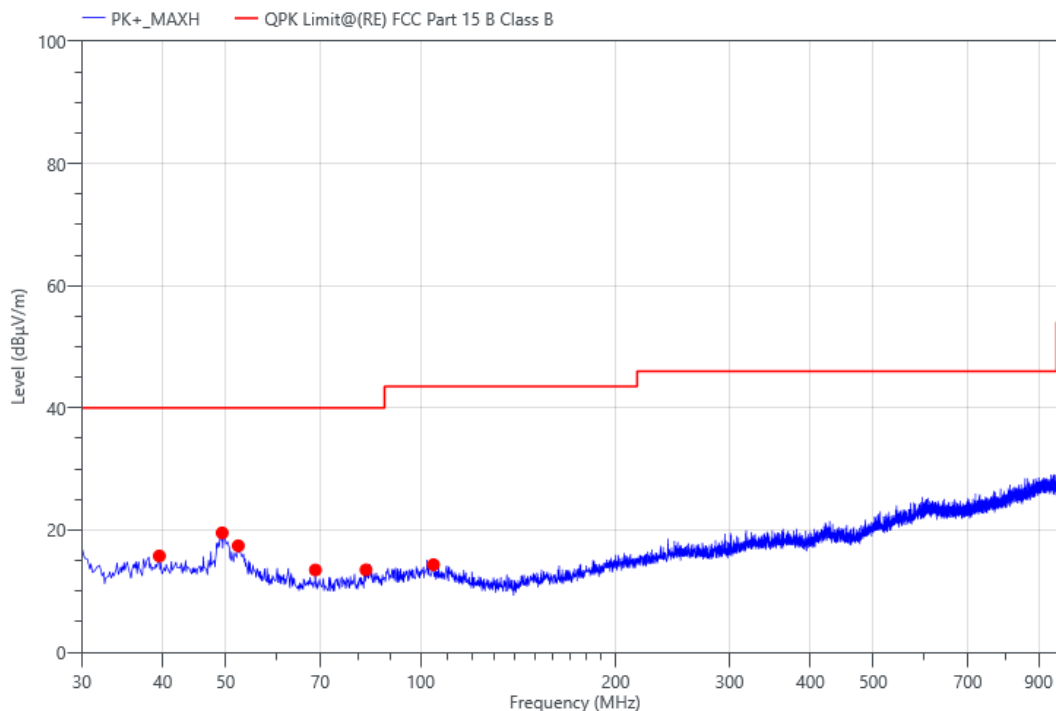


Spurious Emission in Restricted Band 5865-5975 MHz		
Test Model	Zigbee	
Channel: 5874 MHz		V



## ■ Spurious Emission below 1GHz (30MHz to 1GHz)

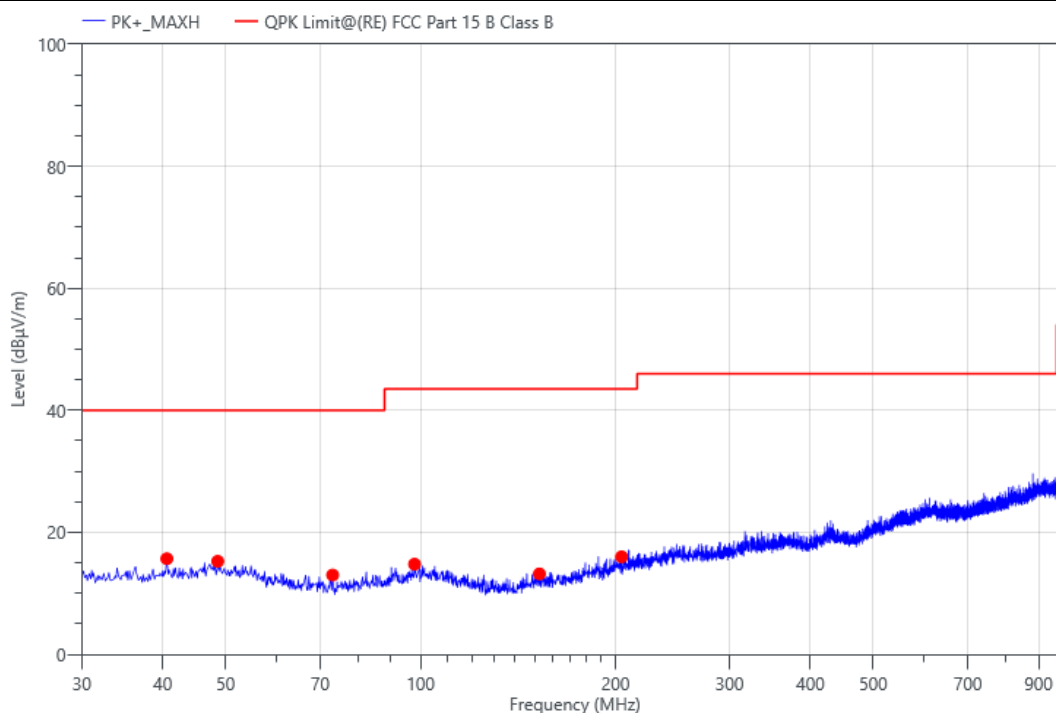
Project Information			
Mode:	TX5726	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	39.506	40.37	-24.6	15.77	40.00	24.23	QPK	100	V	301.5	PASS
2	49.400	43.70	-24.15	19.55	40.00	20.45	QPK	100	V	253.0	PASS
3	52.310	41.98	-24.55	17.43	40.00	22.57	QPK	100	V	165.0	PASS
4	68.800	40.38	-26.9	13.48	40.00	26.52	QPK	100	V	329.5	PASS
5	82.380	40.22	-26.72	13.50	40.00	26.50	QPK	100	V	65.5	PASS
6	104.690	39.98	-25.64	14.34	43.50	29.16	QPK	100	V	293.0	PASS

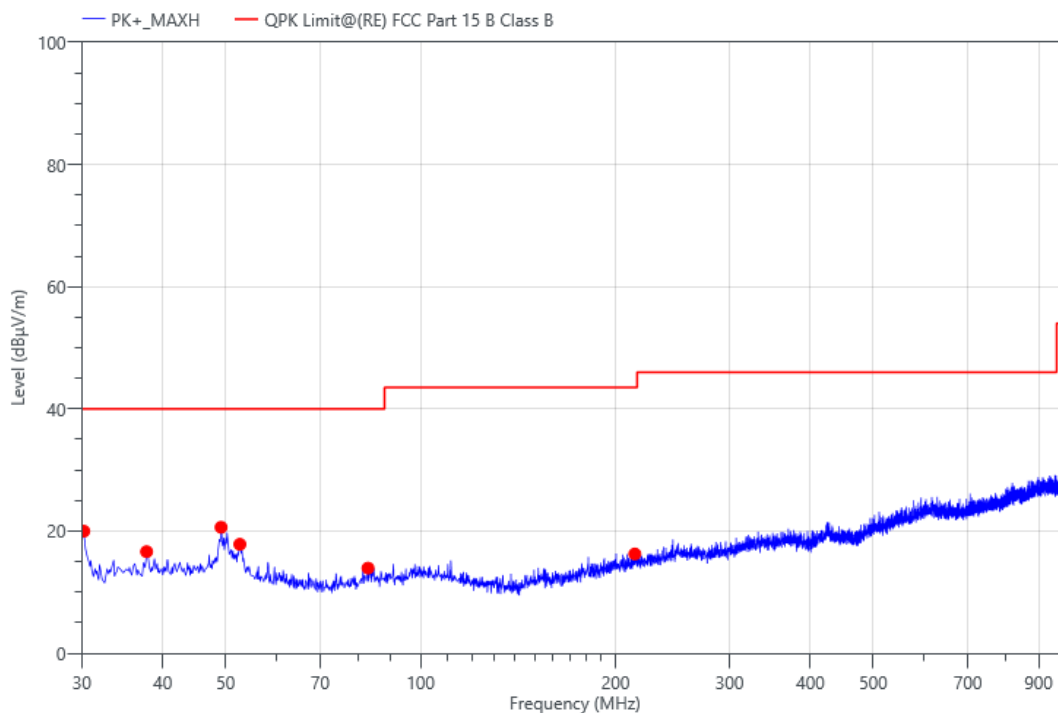


Project Information			
Mode:	TX5726	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



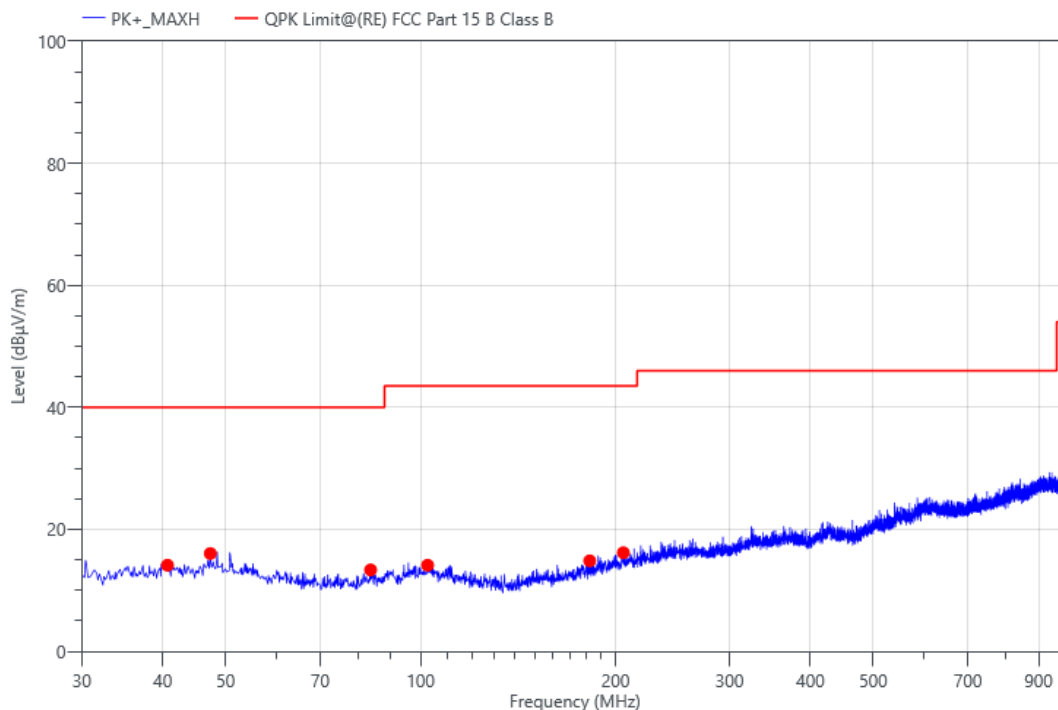
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	40.573	40.19	-24.5	15.69	40.00	24.31	QPK	100	H	307.5	PASS
2	48.624	39.39	-24.13	15.26	40.00	24.74	QPK	100	H	243.0	PASS
3	73.165	40.02	-27.01	13.01	40.00	26.99	QPK	100	H	230.5	PASS
4	97.900	40.24	-25.45	14.79	43.50	28.71	QPK	100	H	257.5	PASS
5	152.608	40.13	-26.93	13.20	43.50	30.30	QPK	100	H	239.0	PASS
6	204.406	40.55	-24.55	16.00	43.50	27.50	QPK	100	H	39.5	PASS

Project Information			
Mode:	TX5800	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



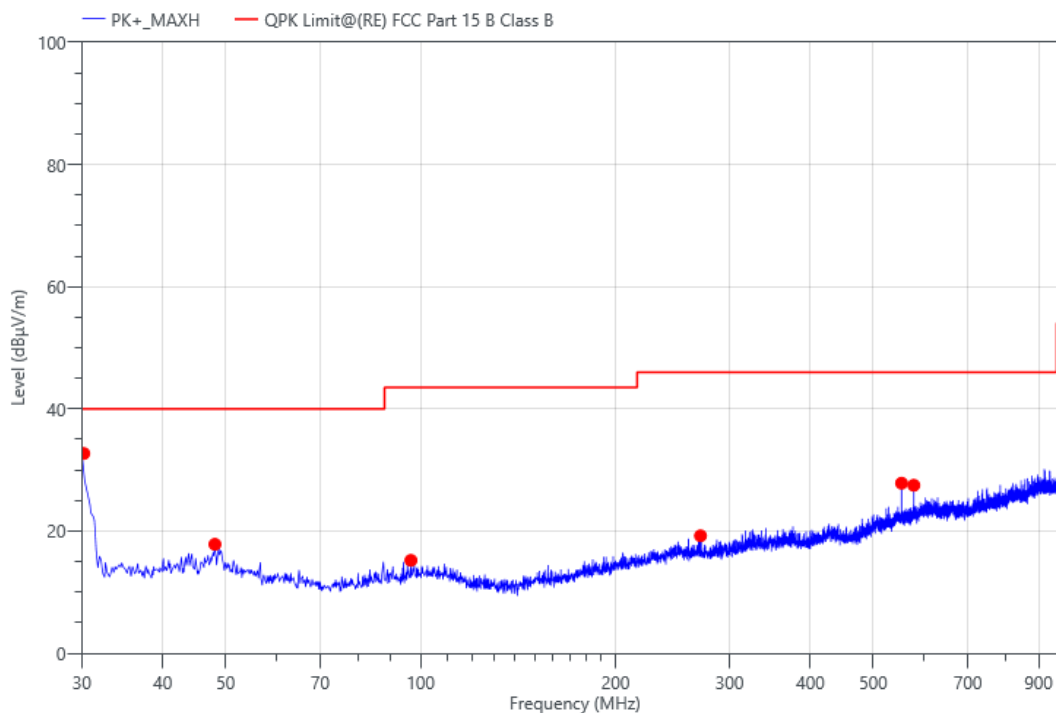
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	30.194	45.34	-25.35	19.99	40.00	20.01	QPK	100	V	246.9	PASS
2	37.760	41.38	-24.74	16.64	40.00	23.36	QPK	100	V	285.4	PASS
3	49.206	44.77	-24.14	20.63	40.00	19.37	QPK	100	V	255.4	PASS
4	52.601	42.44	-24.6	17.84	40.00	22.16	QPK	100	V	164.4	PASS
5	82.962	40.62	-26.67	13.95	40.00	26.05	QPK	100	V	331.9	PASS
6	214.203	40.54	-24.28	16.26	43.50	27.24	QPK	100	V	25.9	PASS

Project Information			
Mode:	TX5800	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



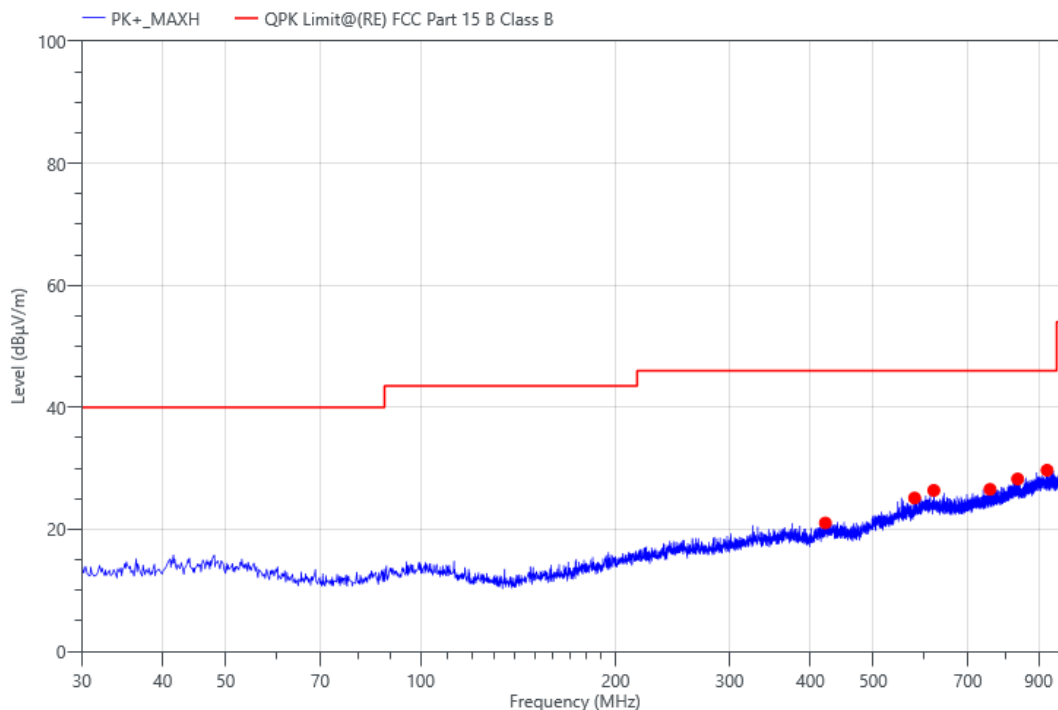
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	40.670	38.62	-24.49	14.13	40.00	25.87	QPK	100	H	342.6	PASS
2	47.363	40.14	-24.1	16.04	40.00	23.96	QPK	100	H	18.6	PASS
3	83.738	39.96	-26.61	13.35	40.00	26.65	QPK	100	H	311.6	PASS
4	102.556	39.59	-25.47	14.12	43.50	29.38	QPK	100	H	202.1	PASS
5	182.484	40.61	-25.76	14.85	43.50	28.65	QPK	100	H	16.1	PASS
6	205.667	40.69	-24.52	16.17	43.50	27.33	QPK	100	H	289.6	PASS

Project Information			
Mode:	TX5874	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	30.194	58.05	-25.35	32.70	40.00	7.30	QPK	100	V	17.8	PASS
2	48.139	41.96	-24.12	17.84	40.00	22.16	QPK	100	V	357.3	PASS
3	96.639	40.77	-25.55	15.22	43.50	28.28	QPK	100	V	314.8	PASS
4	270.560	42.02	-22.78	19.24	46.00	26.76	QPK	100	V	87.8	PASS
5	553.024	43.97	-16.13	27.84	46.00	18.16	QPK	100	V	355.8	PASS
6	577.565	43.20	-15.7	27.50	46.00	18.50	QPK	100	V	217.8	PASS

Project Information			
Mode:	TX5874	Voltage:	AC 120V/60Hz
Environment:	Temp: 20 °C; Humi:43 %	Engineer:	matteus



No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	421.686	40.17	-19.12	21.05	46.00	24.95	QPK	200	H	299.4	PASS
2	579.214	40.77	-15.63	25.14	46.00	20.86	QPK	100	H	335.6	PASS
3	620.148	41.28	-14.89	26.39	46.00	19.61	QPK	200	H	317.9	PASS
4	757.306	40.73	-14.17	26.56	46.00	19.44	QPK	200	H	302.4	PASS
5	835.391	41.05	-12.79	28.26	46.00	17.74	QPK	200	H	224.4	PASS
6	927.638	41.15	-11.46	29.69	46.00	16.31	QPK	200	H	49.4	PASS

# ■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Test mode: GFSK Frequency: Channel : 5726 MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
13936.00	V	54.61	39.24	74	54	-19.39	-14.76
16435.00	V	53.70	38.68	74	54	-20.30	-15.32
17897.50	V	56.84	41.72	74	54	-17.16	-12.28
14573.00	H	54.11	39.37	74	54	-19.89	-14.63
16540.50	H	53.32	38.17	74	54	-20.68	-15.83
17989.00	H	56.57	41.45	74	54	-17.43	-12.55

Test mode: GFSK Frequency: Channel : 5800 MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11007.00	V	51.51	36.49	74	54	-22.49	-17.51
14065.00	V	54.32	39.46	74	54	-19.68	-14.54
17971.00	V	57.55	43.52	74	54	-16.45	-10.48
11069.50	H	51.53	36.74	74	54	-22.47	-17.26
13927.00	H	54.01	39.12	74	54	-19.99	-14.88
17991.50	H	55.83	40.98	74	54	-18.17	-13.02

Test mode: GFSK Frequency: Channel : 5874 MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10976.00	V	52.39	37.42	74	54	-21.61	-16.58
14039.00	V	54.17	39.08	74	54	-19.83	-14.92
17896.00	V	56.01	41.10	74	54	-17.99	-12.90
13687.50	H	53.74	38.85	74	54	-20.26	-15.15
14725.00	H	53.99	38.94	74	54	-20.01	-15.06
17850.50	H	56.27	41.31	74	54	-17.73	-12.69

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).  
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.  
(3) Correct Factor= Ant\_F + Cab\_L - Preamp  
(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

### 8.3 CONDUCTED EMISSIONS TEST

#### 8.3.1 Applicable Standard

According to FCC Part 15.207(a)

#### 8.3.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 8.3.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

#### 8.3.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

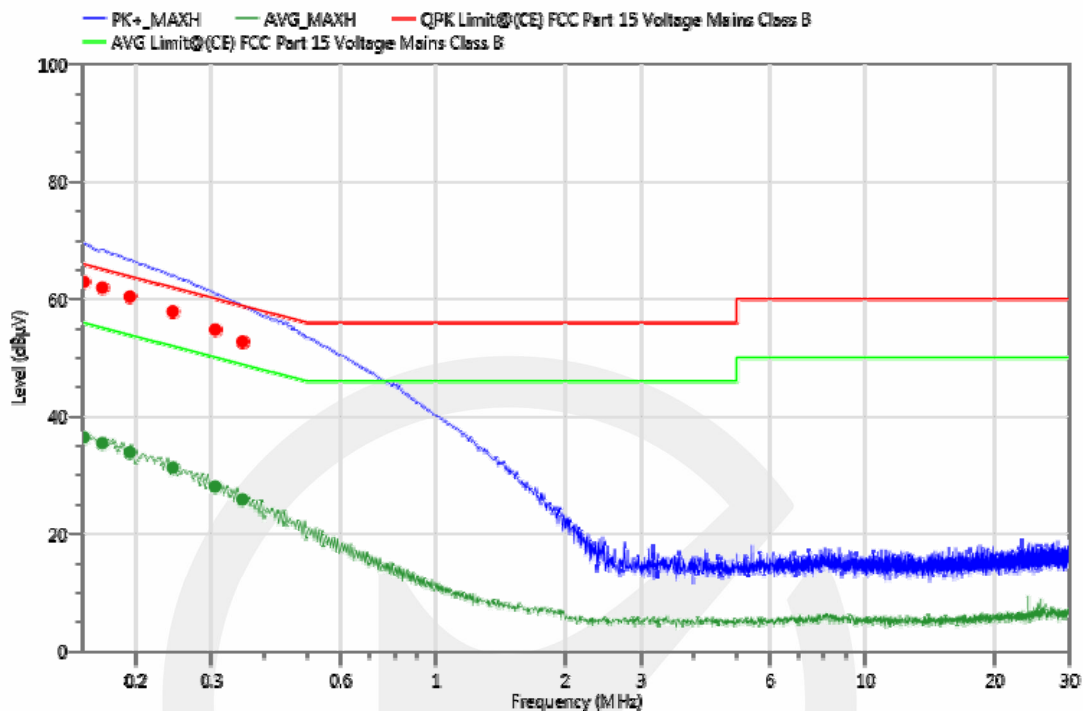
Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

#### 8.3.5 Test Results

**Pass**

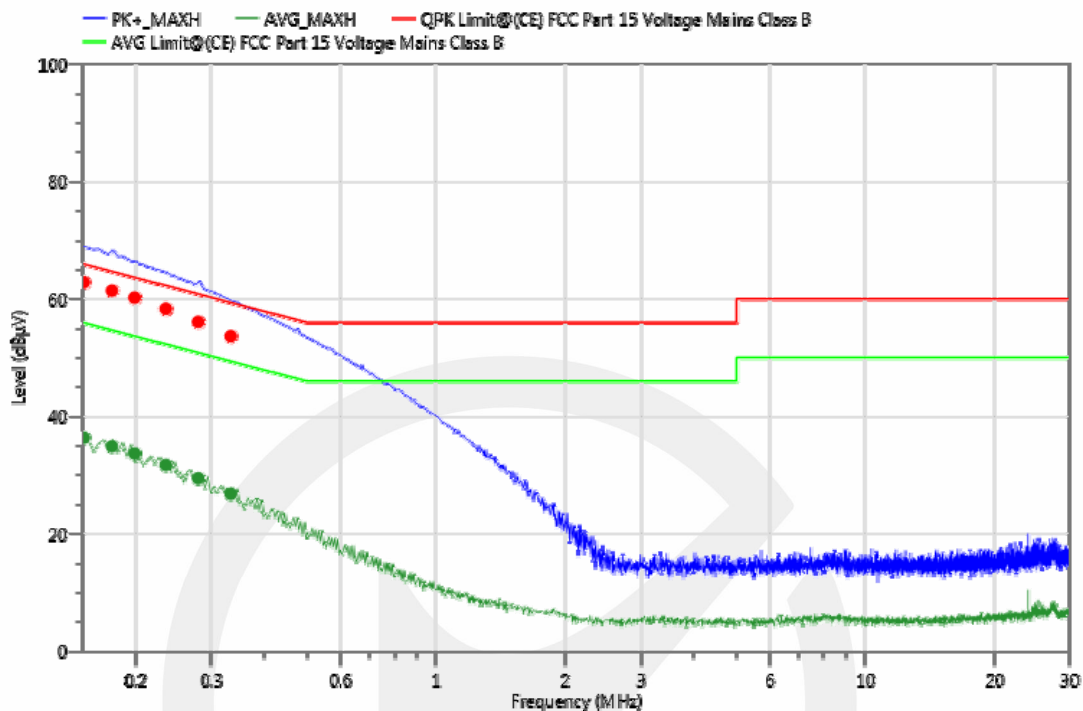
Project Information			
Mode:	TX5726	Voltage:	AC 120V/60Hz
Environment:	Temp: 23°C; Humi:60%	Engineer:	WK Luo



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.151	52.42	10.47	62.89	65.94	3.05	QPK	N	GND	PASS
2	0.151	25.93	10.47	36.40	55.94	19.54	AVG	N	GND	PASS
3	0.167	51.39	10.52	61.91	65.11	3.20	QPK	N	GND	PASS
4	0.167	24.90	10.52	35.42	55.11	19.69	AVG	N	GND	PASS
5	0.194	49.77	10.61	60.38	63.86	3.48	QPK	N	GND	PASS
6	0.194	23.25	10.61	33.86	53.86	20.00	AVG	N	GND	PASS
7	0.243	47.23	10.62	57.85	61.99	4.14	QPK	N	GND	PASS
8	0.243	20.60	10.62	31.22	51.99	20.77	AVG	N	GND	PASS
9	0.306	44.16	10.6	54.76	60.08	5.32	QPK	N	GND	PASS
10	0.306	17.41	10.6	28.01	50.08	22.07	AVG	N	GND	PASS
11	0.355	42.10	10.61	52.71	58.84	6.13	QPK	N	GND	PASS
12	0.355	15.21	10.61	25.82	48.84	23.02	AVG	N	GND	PASS

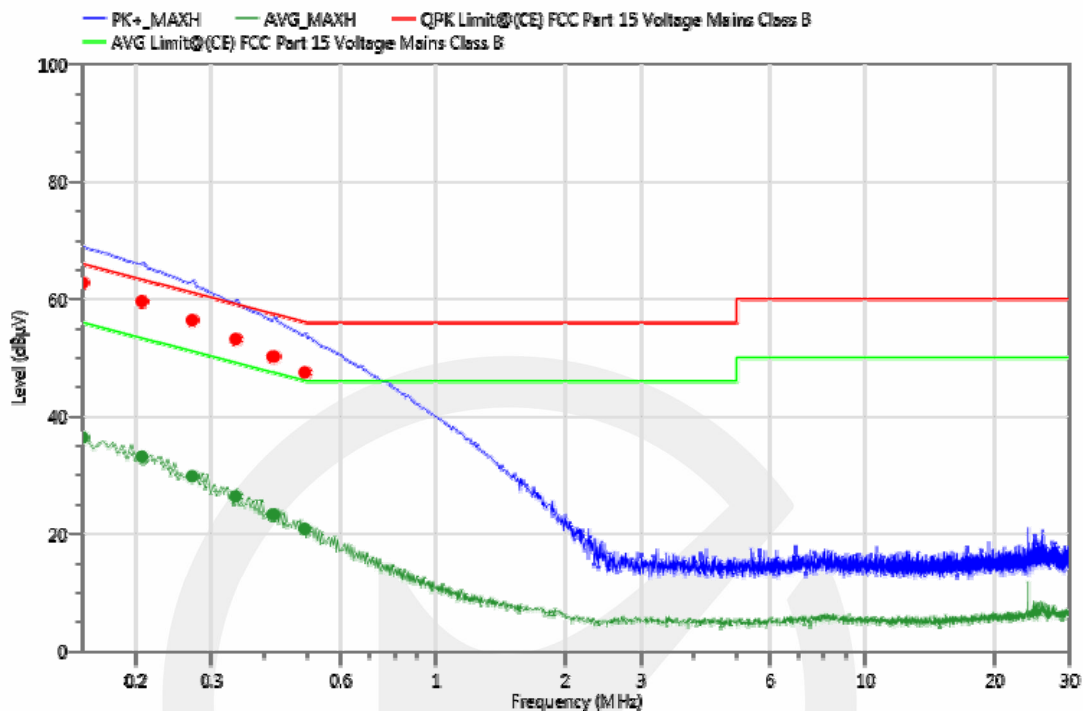


Project Information			
Mode:	TX5726	Voltage:	AC 120V/60Hz
Environment:	Temp: 23℃; Humi:60%	Engineer:	WK Luo



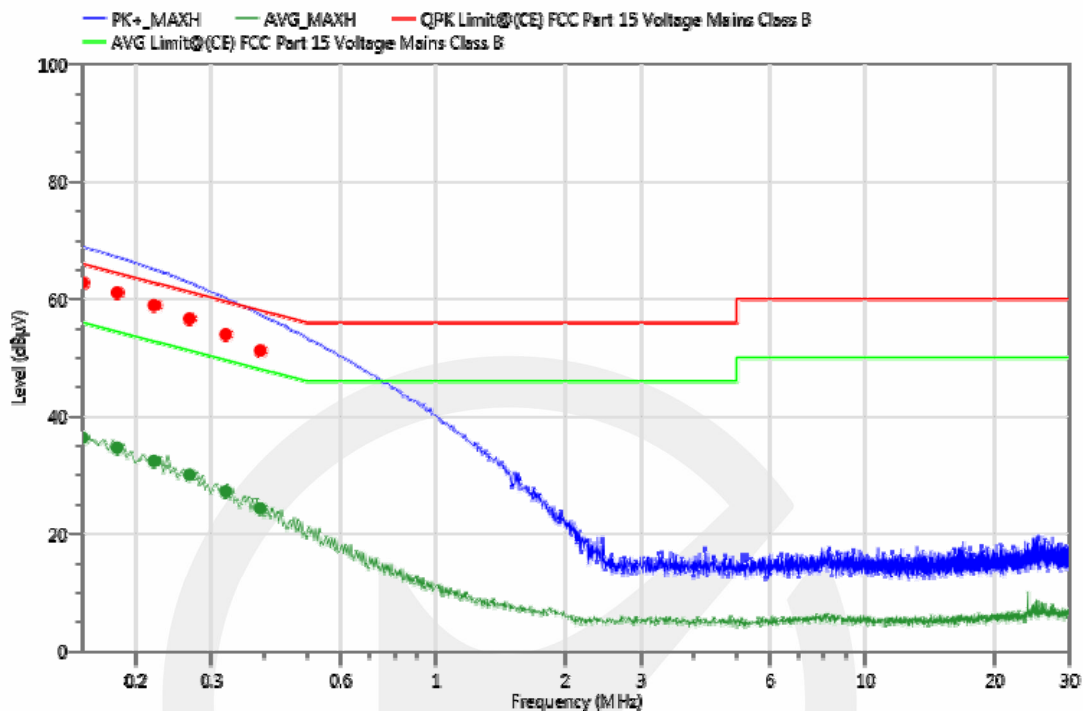
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.151	52.41	10.42	62.83	65.94	3.11	QPK	L1	GND	PASS
2	0.151	25.92	10.42	36.34	55.94	19.60	AVG	L1	GND	PASS
3	0.176	50.87	10.53	61.40	64.67	3.27	QPK	L1	GND	PASS
4	0.176	24.35	10.53	34.88	54.67	19.79	AVG	L1	GND	PASS
5	0.199	49.58	10.62	60.20	63.65	3.45	QPK	L1	GND	PASS
6	0.199	23.03	10.62	33.65	53.65	20.00	AVG	L1	GND	PASS
7	0.234	47.67	10.64	58.31	62.31	4.00	QPK	L1	GND	PASS
8	0.234	21.05	10.64	31.69	52.31	20.62	AVG	L1	GND	PASS
9	0.279	45.43	10.65	56.08	60.85	4.77	QPK	L1	GND	PASS
10	0.279	18.78	10.65	29.43	50.85	21.42	AVG	L1	GND	PASS
11	0.333	42.98	10.66	53.64	59.38	5.74	QPK	L1	GND	PASS
12	0.333	16.11	10.66	26.77	49.38	22.61	AVG	L1	GND	PASS

Project Information			
Mode:	TX5800	Voltage:	AC 120V/60Hz
Environment:	Temp: 23°C; Humi:60%	Engineer:	WK Luo



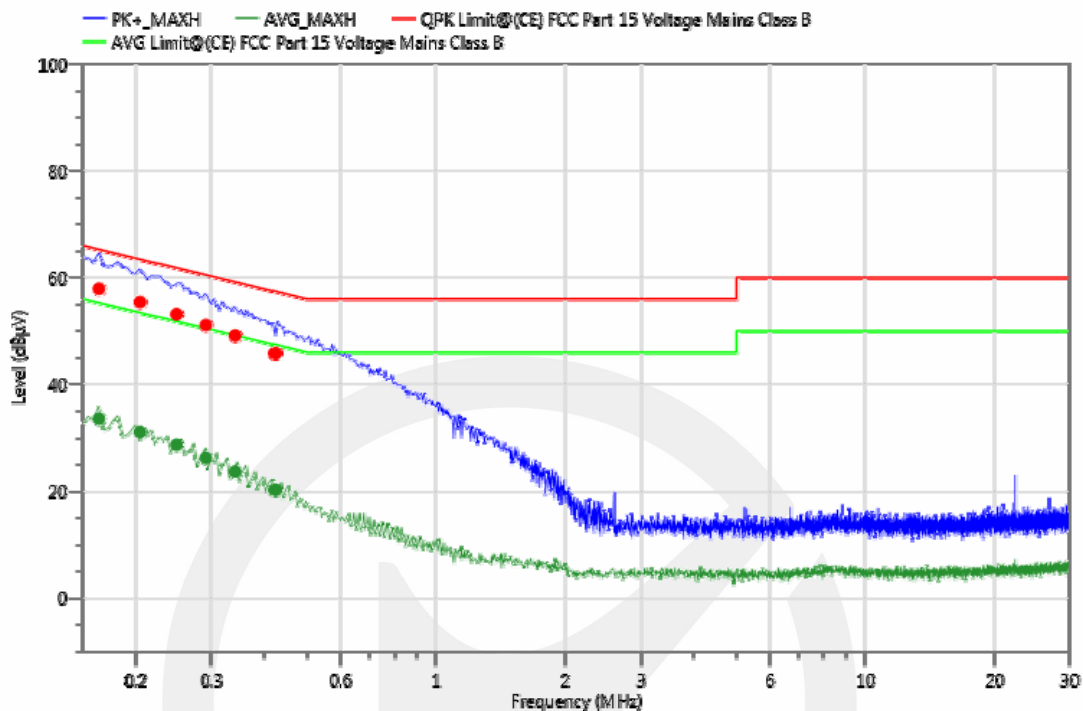
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.150	52.28	10.46	62.74	66.00	3.26	QPK	N	GND	PASS
2	0.150	25.90	10.46	36.36	56.00	19.64	AVG	N	GND	PASS
3	0.207	48.96	10.63	59.59	63.32	3.73	QPK	N	GND	PASS
4	0.207	22.49	10.63	33.12	53.32	20.20	AVG	N	GND	PASS
5	0.270	45.75	10.61	56.36	61.12	4.76	QPK	N	GND	PASS
6	0.270	19.16	10.61	29.77	51.12	21.35	AVG	N	GND	PASS
7	0.342	42.55	10.6	53.15	59.15	6.00	QPK	N	GND	PASS
8	0.342	15.73	10.6	26.33	49.15	22.82	AVG	N	GND	PASS
9	0.418	39.56	10.61	50.17	57.49	7.32	QPK	N	GND	PASS
10	0.418	12.64	10.61	23.25	47.49	24.24	AVG	N	GND	PASS
11	0.494	36.86	10.6	47.46	56.10	8.64	QPK	N	GND	PASS
12	0.494	10.19	10.6	20.79	46.10	25.31	AVG	N	GND	PASS

Project Information			
Mode:	TX5800	Voltage:	AC 120V/60Hz
Environment:	Temp: 23°C; Humi:60%	Engineer:	WK Luo



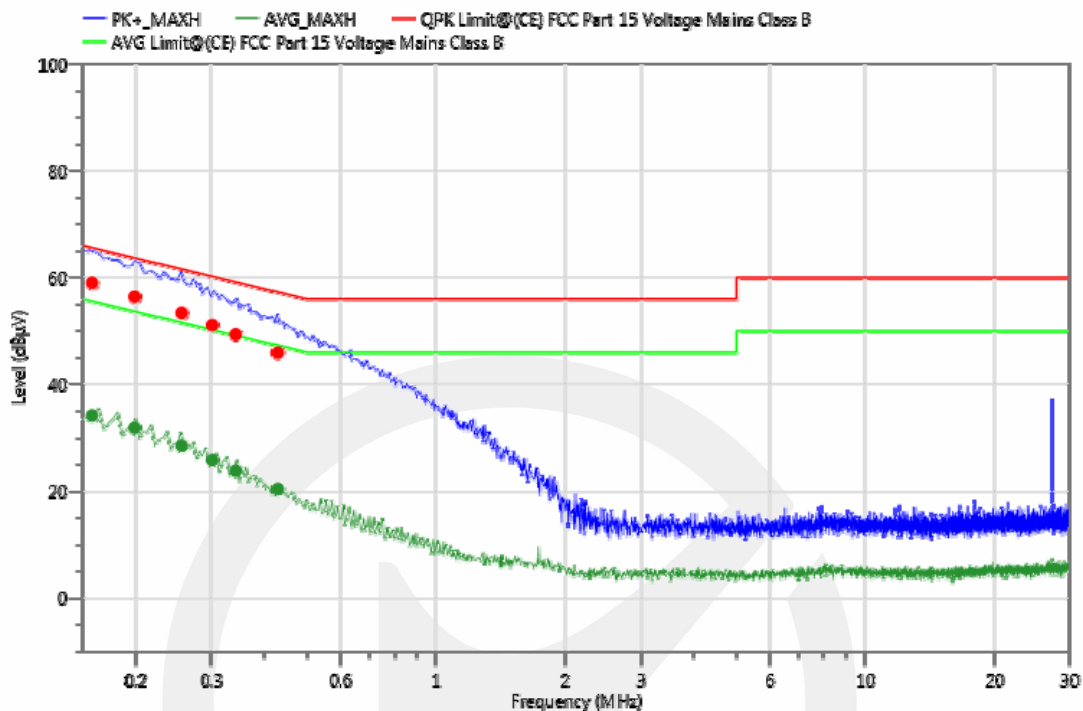
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.150	52.35	10.42	62.77	66.00	3.23	QPK	L1	GND	PASS
2	0.150	25.90	10.42	36.32	56.00	19.68	AVG	L1	GND	PASS
3	0.181	50.52	10.55	61.07	64.44	3.37	QPK	L1	GND	PASS
4	0.181	24.06	10.55	34.61	54.44	19.83	AVG	L1	GND	PASS
5	0.221	48.27	10.64	58.91	62.78	3.87	QPK	L1	GND	PASS
6	0.221	21.72	10.64	32.36	52.78	20.42	AVG	L1	GND	PASS
7	0.266	45.98	10.65	56.63	61.24	4.61	QPK	L1	GND	PASS
8	0.266	19.37	10.65	30.02	51.24	21.22	AVG	L1	GND	PASS
9	0.324	43.29	10.66	53.95	59.60	5.65	QPK	L1	GND	PASS
10	0.324	16.51	10.66	27.17	49.60	22.43	AVG	L1	GND	PASS
11	0.391	40.52	10.67	51.19	58.04	6.85	QPK	L1	GND	PASS
12	0.391	13.62	10.67	24.29	48.04	23.75	AVG	L1	GND	PASS

Project Information			
Mode:	TX5874	Voltage:	AC 120V/60Hz
Environment:	Temp: 23°C; Humi:60%	Engineer:	WK Luo



No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.164	47.79	10.1	57.89	65.26	7.37	QPK	N	GND	PASS
2	0.164	23.43	10.1	33.53	55.26	21.73	AVG	N	GND	PASS
3	0.205	45.29	10.1	55.39	63.41	8.02	QPK	N	GND	PASS
4	0.205	20.93	10.1	31.03	53.41	22.38	AVG	N	GND	PASS
5	0.248	43.02	10.09	53.11	61.82	8.71	QPK	N	GND	PASS
6	0.248	18.56	10.09	28.65	51.82	23.17	AVG	N	GND	PASS
7	0.291	41.02	10.08	51.10	60.50	9.40	QPK	N	GND	PASS
8	0.291	16.10	10.08	26.18	50.50	24.32	AVG	N	GND	PASS
9	0.341	39.06	10.07	49.13	59.18	10.05	QPK	N	GND	PASS
10	0.341	13.56	10.07	23.63	49.18	25.55	AVG	N	GND	PASS
11	0.422	35.74	10.06	45.80	57.41	11.61	QPK	N	GND	PASS
12	0.422	10.14	10.06	20.20	47.41	27.21	AVG	N	GND	PASS

Project Information			
Mode:	TX5874	Voltage:	AC 120V/60Hz
Environment:	Temp: 23°C; Humi:60%	Engineer:	WK Luo



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
1	0.158	48.89	10.11	59.00	65.57	6.57	QPK	L1	GND	PASS
2	0.158	24.01	10.11	34.12	55.57	21.45	AVG	L1	GND	PASS
3	0.199	46.31	10.1	56.41	63.65	7.24	QPK	L1	GND	PASS
4	0.199	21.73	10.1	31.83	53.65	21.82	AVG	L1	GND	PASS
5	0.255	43.27	10.09	53.36	61.59	8.23	QPK	L1	GND	PASS
6	0.255	18.40	10.09	28.49	51.59	23.10	AVG	L1	GND	PASS
7	0.301	41.00	10.08	51.08	60.22	9.14	QPK	L1	GND	PASS
8	0.301	15.70	10.08	25.78	50.22	24.44	AVG	L1	GND	PASS
9	0.342	39.26	10.08	49.34	59.15	9.81	QPK	L1	GND	PASS
10	0.342	13.70	10.08	23.78	49.15	25.37	AVG	L1	GND	PASS
11	0.427	35.85	10.06	45.91	57.31	11.40	QPK	L1	GND	PASS
12	0.427	10.29	10.06	20.35	47.31	26.96	AVG	L1	GND	PASS

## 8.4 ANTENNA APPLICATION

### 8.4.1 Antenna Requirement

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.

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.

### 8.4.2 Result

PASS.

Note: The EUT has 1 antenna: The PCB antenna gain is 2 dBi.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
  - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
  - ☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

\*\*\* End of Report \*\*\*

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Objections shall be raised within 20 days from the date receiving the report.