

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN24DT74 001</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	180278004	Seite 1 von 32 <i>Page 1 of 32</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2023.12.13		
<b>Auftraggeber:</b> <i>Client:</i>	NINGBO YUSING LIGHTING CO., LTD. No.1199, MINGGUANG RD.JIANGSHAN TOWN, NINGBO, 315195 Zhejiang P.R. China				
<b>Prüfgegenstand:</b> <i>Test item:</i>	LR411-C5X7-2M-RGB				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	CYTT-454				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	TÜV Rheinland – FCC Service				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC 47 CFR Part 15.203 FCC 47 CFR Part 15.247 FCC Part 15, Subpart B:2021				
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2023.12.13	Refer to Photo Documentation			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003623935-001				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2023.12.13 - 2024.02.02				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Refer to section 1.1				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>				
<b>geprüft von:</b> <i>tested by:</i>	<b>genehmigt von:</b> <i>authorized by:</i>				
<b>Datum:</b> <i>Date:</i> 2024.02.26	<i>Keda Zhou</i>	<b>Ausstelldatum:</b> <i>Issue date:</i> 2024.02.26	<i>Season Yang</i>		
<b>Stellung / Position:</b>	Keda Zhou/PE	<b>Stellung / Position:</b>	Season Yang/Authorizer		
<b>Sonstiges / Other:</b>	FCC ID: 2AHGM-2M-RGB				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
<b>* Legende:</b>	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut 2 = good P(ass) = passed a.m. test specification(s)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

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### Anmerkungen Remarks

Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.

Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.

*The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.*

*Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*

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Prüfklausel mit der Note \* wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.

*Test clauses with remark of \* are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*

Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.

*The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.*

## Test Summary

### 4.1.1 ANTENNA REQUIREMENT

*Result:*

*Pass*

### 4.1.2 6dB BANDWIDTH

*Result:*

*Pass*

*Pass*

### 4.1.3 MAXIMUM PEAK CONDUCTED OUTPUT POWER

*Result:*

*Pass*

### 4.1.4 PEAK POWER SPECTRAL DENSITY

*Result:*

*Pass*

### 4.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH

*Result:*

*Pass*

### 4.1.6 CONDUCTED EMISSION (AC POWER-LINE)

*Result:*

*Pass*

### 4.1.7 RADIATED EMISSION

*Result:*

*Pass*

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## 1. Test Sites

### 1.1 Test Facilities

**Laboratory: TÜV Rheinland /CCIC (Ningbo) Co., Ltd.**

**1st Floor, Building 11, Scholar Innovation Park, No.1188 Zhongguan Road, Zhenhai District, Ningbo 315200 P.R. China**

The tests were conducted by TÜV Rheinland/CCIC's engineer directly in the above laboratory.

### 1.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment, Laboratory**

Kind of Equipment	Type	Serial No.	Last cal. date	Cal. due date
EMI test receiver	ESR7	101929	2023.10.30	2024.10.29
Spectrum analyzer	FSV40	101412	2023.10.30	2024.10.29
Bilog Antenna	CBL6112D	49033	2021.03.15	2024.03.14
Horn antenna	HF907	102653	2023.07.20	2026.07.19
Broad-Band Horn Antenna	BBHA 9170	899	2021.01.11	2024.01.12
Pre-amplifier	SCU-18F	180051	2023.10.30	2024.10.29
Pre-amplifier	LNPA_1840G-50	SK2021040801	2023.10.30	2024.10.29
RF control Unit	JS0806-2	22G8060598	2023.11.03	2024.11.02
Mains control unit	JS0806-4ADC	21L8060536	2023.10.30	2024.10.29

### 1.3 Uncertainty of Measurement

**Table 2: Measurement Uncertainty**

Test Item	Expanded Measurement Uncertainty (k=2)
Conducted Emission (9-150kHz)	3.70dB
Conducted Emission (150k-30MHz)	3.30dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (30-1000MHz)	4.39dB
Radiated Emission (1-18GHz)	4.67dB

## 2. General Product Information

### 2.1 Product Function and Intended Use

The EUT (equipment under test) is a LR411-C5X7-2M-RGB operated at 2400-2483.5MHz.

For more detail information, refer to the user's manual.

### 2.2 Ratings and System Details

**Table 3: General Description of EUT**

General Description of EUT	
Input Voltage:	DC 5V
Protection Class:	Class III
Technical Specification of Bluetooth (BLE)	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Data Rate:	2Mbps
Channel:	0-39
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

**Table 4: Channel List**

Channel List for BR/EDR							
Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

## **2.3 Independent Operation Modes**

There are some modes:

Mode A: Transmitting continuously of BLE

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode B: Normal Working

Refer to the user's manual for further information.

## **2.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram for further information.

## **2.5 Submitted Documents**

Circuit diagram, label, user manual etc.

### 3. Test Set-up and Operation Modes

#### 3.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

#### 3.2 Test Operation and Test Software

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer. The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

All testing were performed according to the procedures in ANSI C63.10: 2013.

Test Software EMC32 V10.30 was used in the radiated emission test.

More details refer to the related paragraph of this report.

#### 3.3 Special Accessories and Auxiliary Equipment

Table 5: List of Auxiliary Equipment

Description	Manufacturer	Model No.
Adapter	HUIZHOU PUAN	UC3US

#### 3.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Circuit Diagram. No additional measures were employed to achieve compliance.



### 3.5 Test set-up

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

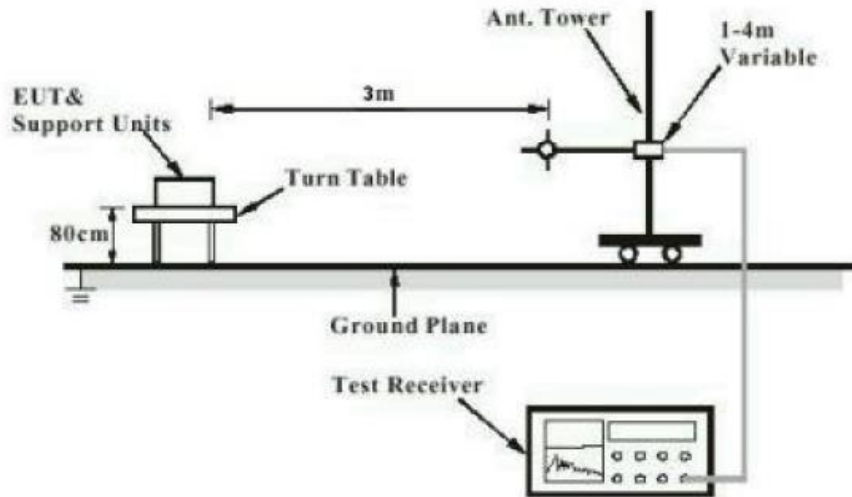


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

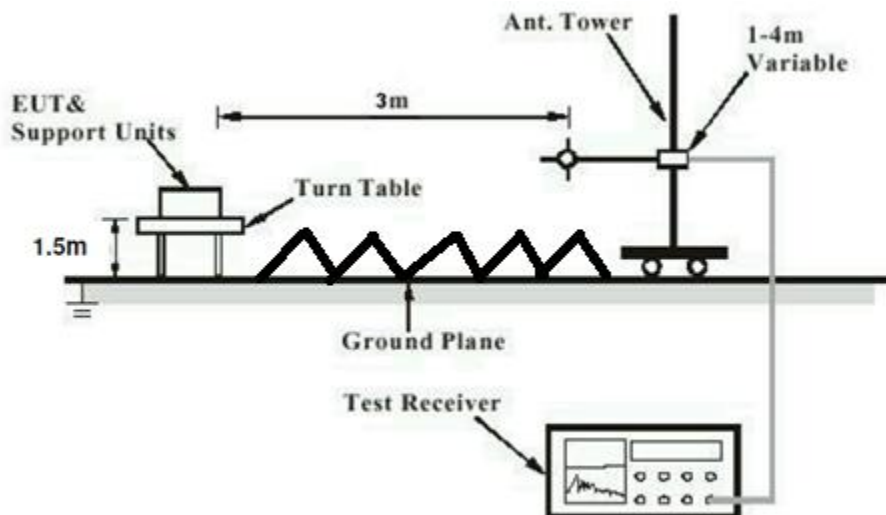
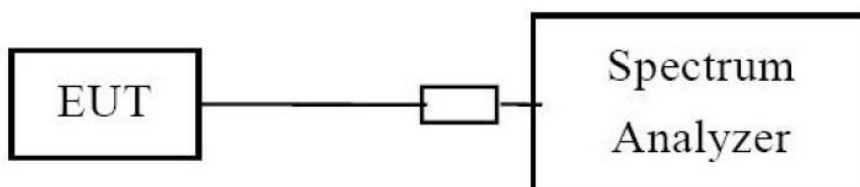


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 4. Test Results

### 4.1 Transmitter Requirement & Test Suites

#### 4.1.1 Antenna Requirement

**Result:****Pass**

Test Specification

Test standard : FCC 47 CFR Part 15.203

Limit : FCC: the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an integral antenna (PCB Antenna, Antenna Gain: 0dBi), and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

### 4.1.2 6dB Bandwidth

**Result:**
**Pass**

Test Specification

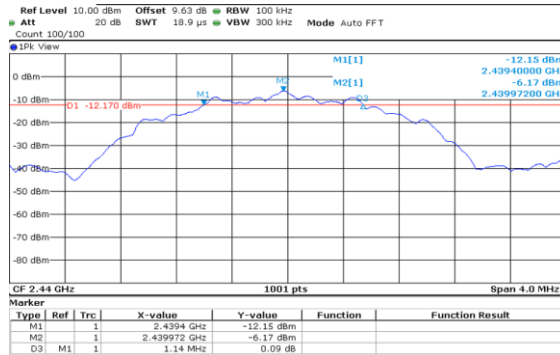
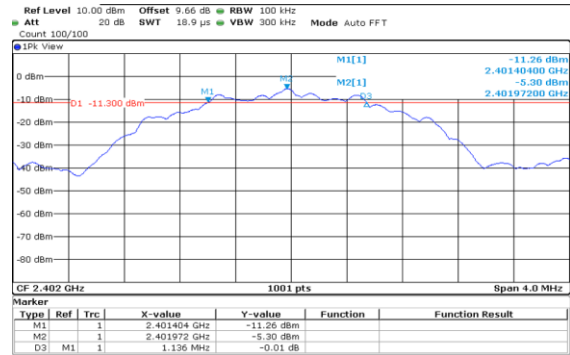
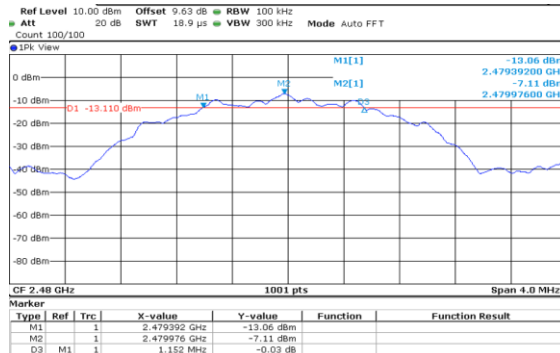
 Test standard : FCC 47 CFR Part 15.247 (a)(2)  
 Basic standard : ANSI C63.10: 2020  
 Limits : At least 500kHz  
 Kind of test site : Shielded Room

**Test Setup**

 Date of testing : 2024.02.01  
 Input voltage : DC 5V  
 Operational mode : A.1, A.2, A.3  
 Temperature : 23°C  
 Relative humidity : 56%  
 Atmospheric pressure : 101.2 kPa

**Table 6: Test result of 6dB Bandwidth**

Mode	Bandwidth (kHz)	Limit (kHz)	Verdict
A.1	1140	≥500	Pass
A.2	1140	≥500	Pass
A.3	1150	≥500	Pass

**Figure 1: 6dB Bandwidth Measurement**
**A.1**

**A.2**

**A.3**


### 4.1.3 Maximum Peak Conducted Output Power

**Result:**
**Pass**

Test Specification  
 Test standard : FCC 47 CFR Part 15.247 (b)(3)  
 Basic standard : ANSI C63.10: 2020  
 Limits : Not more than 1Watt(30dBm)  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024.02.01  
 Input voltage : DC 5V  
 Operational mode : A.1, A.2, A.3  
 Temperature : 23°C  
 Relative humidity : 56%  
 Atmospheric pressure : 101.2 kPa

**Table 7: Test result of Maximum Peak Output Power**

Mode	Peak Output Power (dBm)	Limit (dBm)	Verdict
A.1	-4.65	≤30	Pass
A.2	-5.50	≤30	Pass
A.3	-6.30	≤30	Pass

### 4.1.4 Peak Power Spectral Density

**Result:**
**Pass**

Test Specification

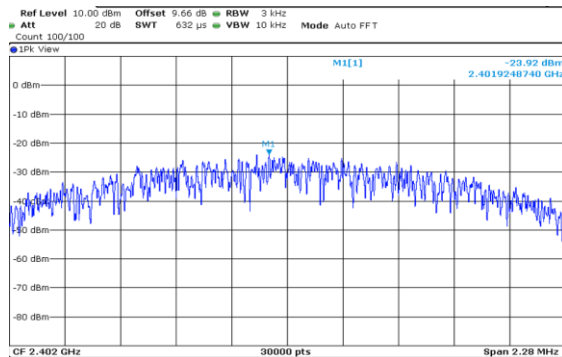
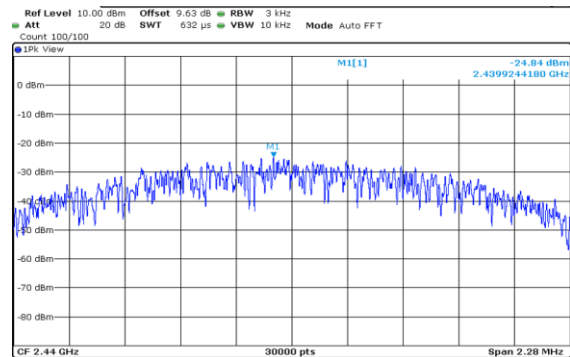
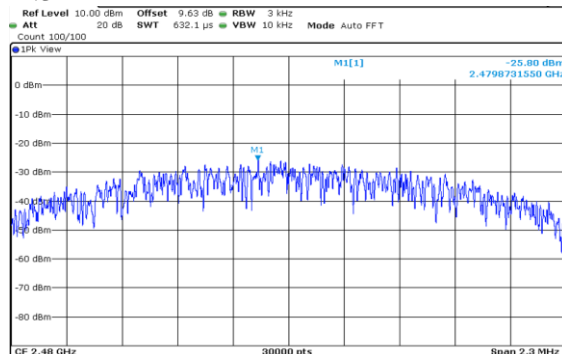
Test standard : FCC 47 CFR Part 15.247 (e)  
 Basic standard : ANSI C63.10: 2020  
 Limits : Not more than 8 dBm in any 3 kHz band  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024.02.01  
 Input voltage : DC 5V  
 Operational mode : A.1, A.2, A.3  
 Temperature : 23°C  
 Relative humidity : 56%  
 Atmospheric pressure : 101.2 kPa

**Table 8: Test result of Peak Power Spectral Density**

Mode	Peak PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
A.1	-23.92	≤8	Pass
A.2	-24.84	≤8	Pass
A.3	-25.80	≤8	Pass

**Figure 2: Peak Power Spectral Density Measurement**
**A.1**

**A.2**

**A.3**


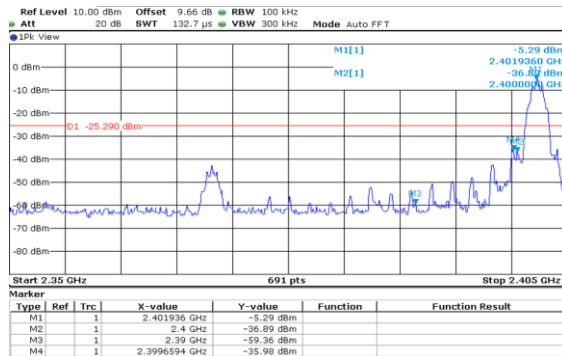
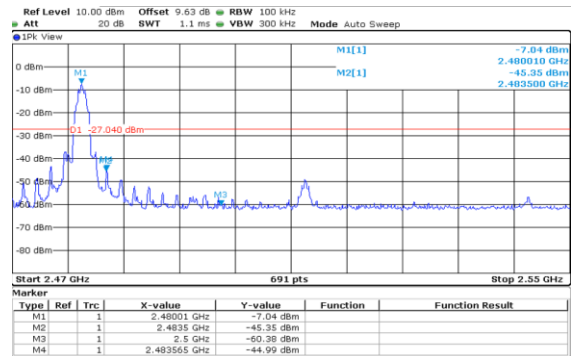
### 4.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

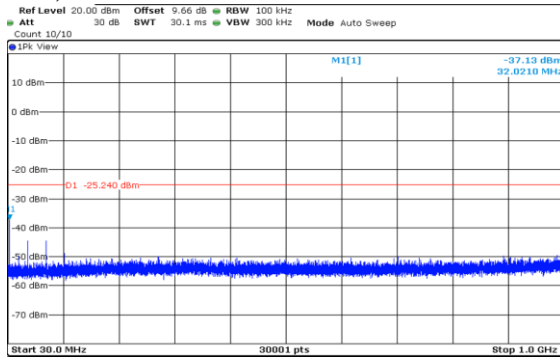
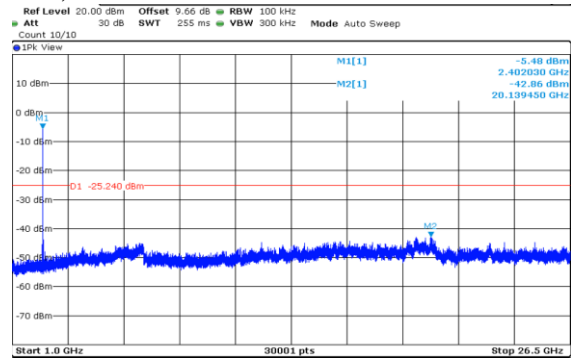
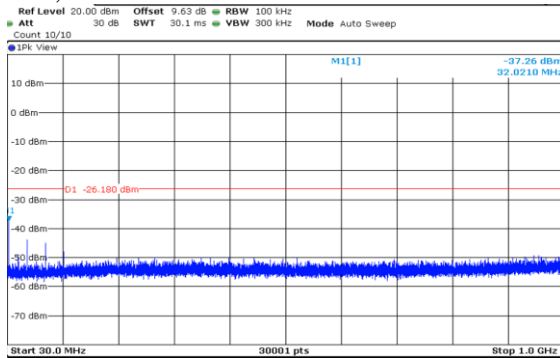
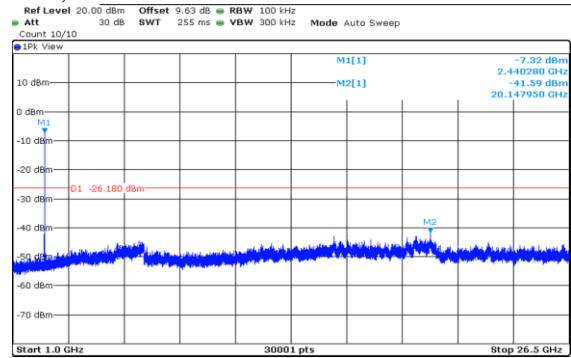
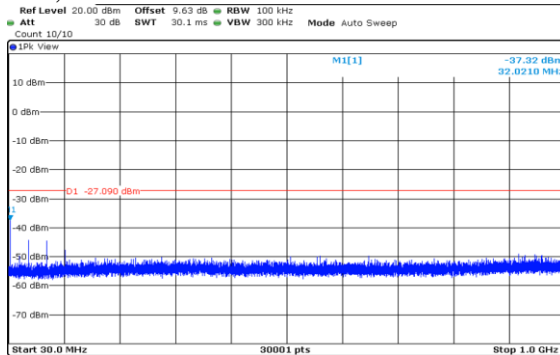
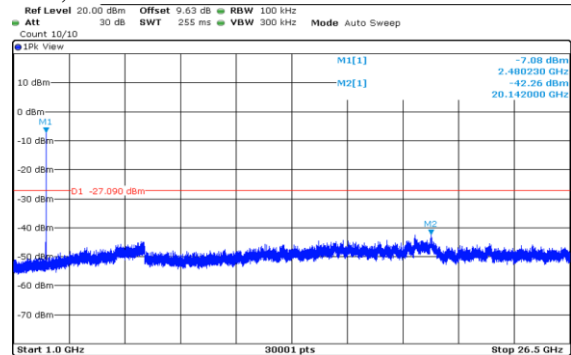
**Result:**
**Pass**
**Test Specification**

Test standard : FCC 47 CFR Part 15.247 (d)  
 Basic standard : ANSI C63.10: 2020  
 Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2024.02.01  
 Input voltage : DC 5V  
 Operational mode : A.1, A.2, A.3  
 Temperature : 23°C  
 Relative humidity : 56%  
 Atmospheric pressure : 101.2 kPa

**Figure 3: Band Edge**
**A.1**

**A.3**


**Figure 4: Conducted Spurious Emission**
**A.1, 30MHz-1000MHz**

**A.1, 1GHz-26.5GHz**

**A.2, 30MHz-1000MHz**

**A.2, 1GHz-26.5GHz**

**A.3, 30MHz-1000MHz**

**A.3, 1GHz-26.5GHz**


Remark: All emissions are more than 20dB below fundamental, compliance is achieved as well.

#### 4.1.6 Conducted Emission (AC power-line)

**Result:****Pass**

Test Specification	
Test standard	: CFR47 FCC Part 15.107 CFR47 FCC Part 15.207
Basic standard	: ANSI C63.10: 2020
Port	: Mains
Frequency range	: 0.15 – 30MHz
Limits	: CFR47 FCC Part 15.107 CFR47 FCC Part 15.207
Kind of test site	: Shielding Room

**Test Setup**

Date of testing	: 2024.01.25
Input voltage	: DC 5V
Operational mode	: B
Temperature	: 21°C
Relative humidity	: 63%
Atmospheric pressure	: 101.2 kPa

The measurement setup was made according to ANSI C63.4:2014 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with ANSI C63.4:2014 and CISPR 16-1 series standards.

The tested object was set-up on a wooden table. The EUT was set 0.8m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3m and 0.4m.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

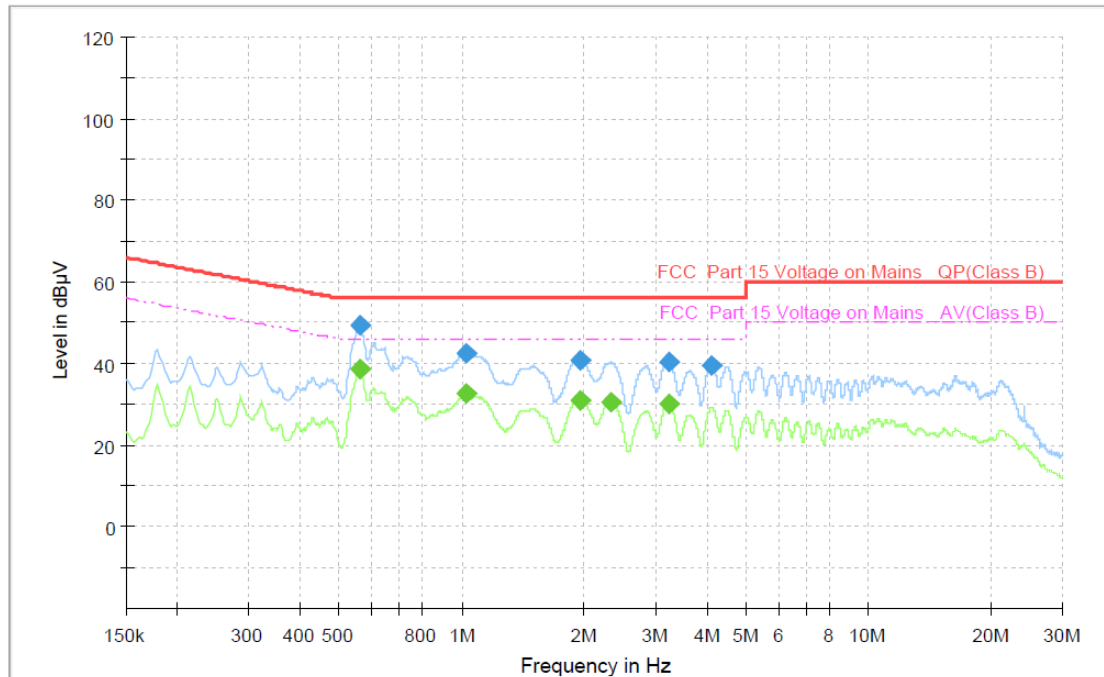
Before measurement, a survey was made to determine in which state the maximum disturbance was obtained. And the measurement was made in the state the maximum disturbance was obtained.

The following figures and tables were those measured by an automatic measuring system. Both Quasi Peak and Average Value were measured. Quasi-Peak and Average Value were measured and listed respectively where they had a maximum in previous scanning survey. In the Figures, “•” means Quasi-Peak Value and Average Value which were measured in final measurement.

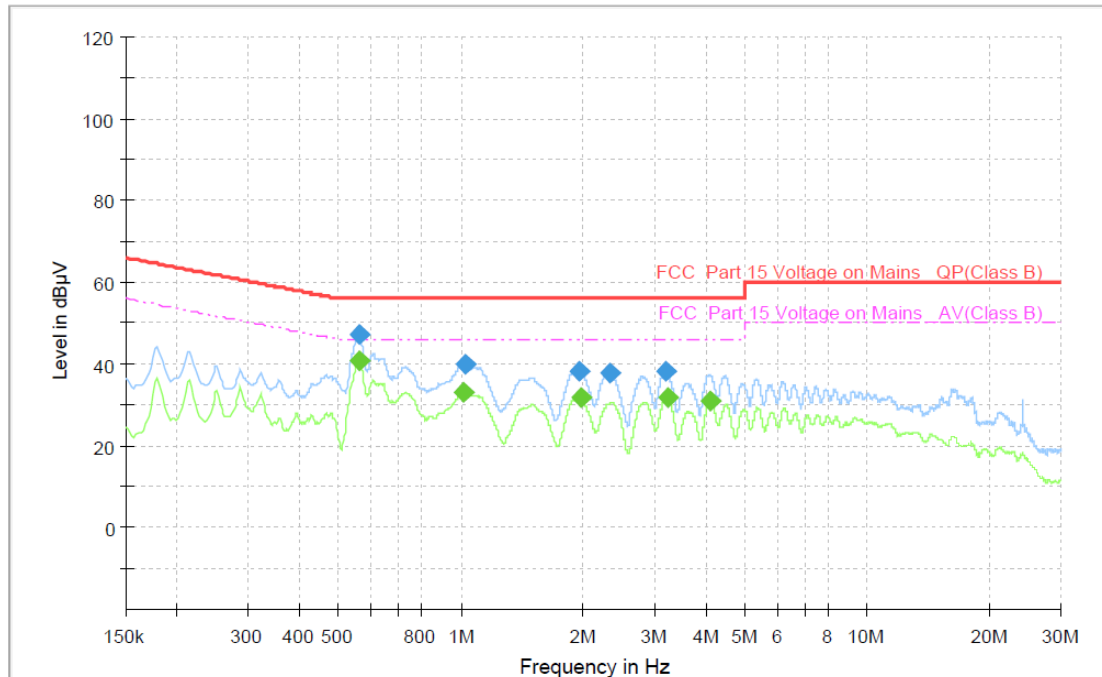
The measurement result is calculated based on the following formula by the test software:

Emission Level = Reading level + Correction (LISN factor + cable loss)



**Figure 5: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, L**

**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.561750	---	38.48	46.00	7.52	1000.0	9.000	L1	ON	9.6
0.561750	49.21	---	56.00	6.79	1000.0	9.000	L1	ON	9.6
1.020750	---	32.68	46.00	13.32	1000.0	9.000	L1	ON	9.6
1.023000	42.69	---	56.00	13.31	1000.0	9.000	L1	ON	9.6
1.954500	40.85	---	56.00	15.15	1000.0	9.000	L1	ON	9.7
1.954500	---	30.93	46.00	15.07	1000.0	9.000	L1	ON	9.7
2.337000	---	30.37	46.00	15.63	1000.0	9.000	L1	ON	9.7
3.225750	40.50	---	56.00	15.50	1000.0	9.000	L1	ON	9.7
3.228000	---	30.21	46.00	15.79	1000.0	9.000	L1	ON	9.7
4.089750	39.67	---	56.00	16.33	1000.0	9.000	L1	ON	9.8

**Figure 6: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, N**

**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.561750	---	40.96	46.00	5.04	1000.0	9.000	N	ON	9.6
0.561750	47.03	---	56.00	8.97	1000.0	9.000	N	ON	9.6
1.018500	---	33.27	46.00	12.73	1000.0	9.000	N	ON	9.6
1.023000	40.09	---	56.00	15.91	1000.0	9.000	N	ON	9.6
1.954500	38.30	---	56.00	17.70	1000.0	9.000	N	ON	9.7
1.965750	---	31.89	46.00	14.11	1000.0	9.000	N	ON	9.7
2.325750	37.70	---	56.00	18.30	1000.0	9.000	N	ON	9.7
3.187500	38.19	---	56.00	17.81	1000.0	9.000	N	ON	9.7
3.223500	---	31.84	46.00	14.16	1000.0	9.000	N	ON	9.7
4.116750	---	31.05	46.00	14.95	1000.0	9.000	N	ON	9.8

### 4.1.7 Radiated Emission

**Result:****Pass**

Test Specification	
Test standard	: CFR47 FCC Part 15.109 CFR47 FCC Part 15.209
Basic standard	: ANSI C63.10: 2020
Port	: Enclosure
Frequency range	: 30MHz-1000MHz for normal 30MHz-10 <sup>th</sup> Harmonic for intentional radiator
Limits	: CFR47 FCC Part 15.109 CFR47 FCC Part 15.205 CFR47 FCC Part 15.209
Kind of test site	: 3m Semi-anechoic Chamber

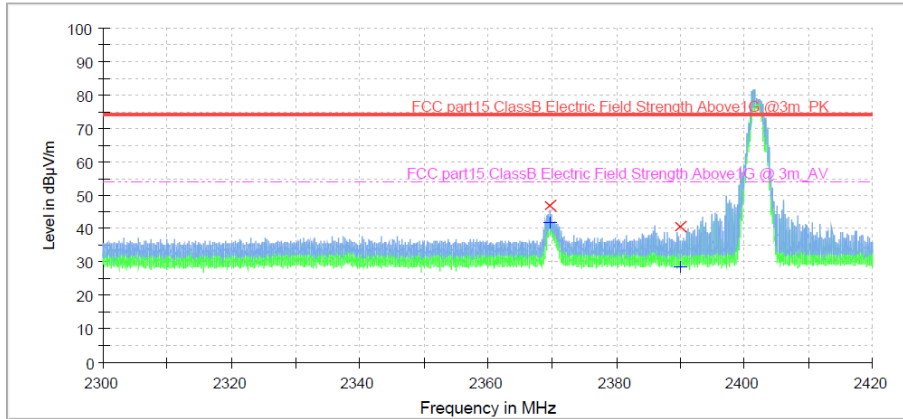
**Test Setup**

Date of testing	: 2024.01.29-2024.02.01
Input voltage	: DC 5V
Operational mode	: A.1, A.2, A.3, B
Temperature	: 21°C
Relative humidity	: 63%
Atmospheric pressure	: 101.2 kPa

The radiated measurement result is calculated based on the following formula by the test software: Emission Level = Reading level + Correction (Antenna factor + Cable loss Preamplifier)

**Figure 7: Spectral Diagrams, Restricted frequency bands, Mode A.1**

2310MHz-2390MHz, Horizontal

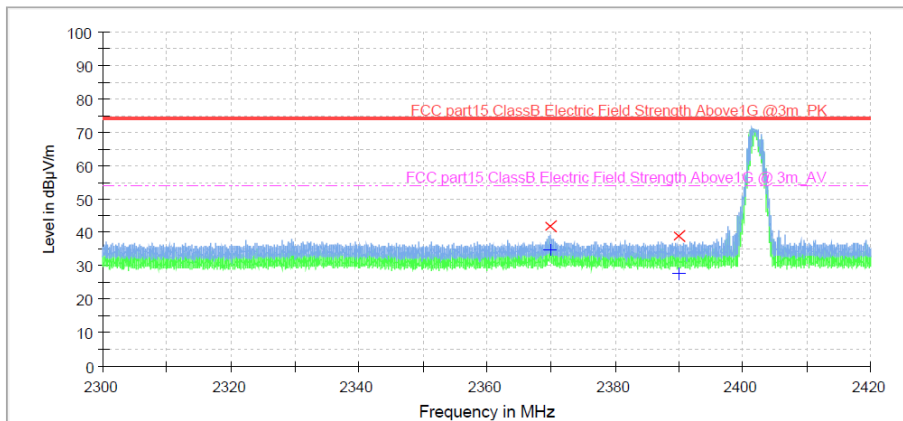

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2369.665000	46.8	1000.0	1000.000	200.0	H	0.0	-5.8	27.2	74.0
2390.000000	40.6	1000.0	1000.000	200.0	H	0.0	-5.7	33.4	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2369.665000	42.0	1000.0	1000.000	200.0	H	0.0	-5.8	12.0	54.0
2390.000000	28.4	1000.0	1000.000	200.0	H	0.0	-5.7	25.6	54.0

2310MHz-2390MHz, Vertical


**Limit and Margin-PK**

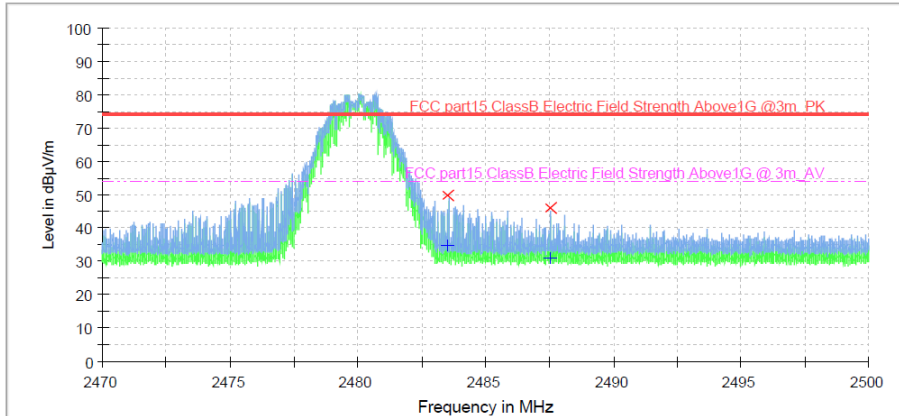
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2369.875000	41.9	1000.0	1000.000	200.0	V	0.0	-5.8	32.1	74.0
2390.000000	38.8	1000.0	1000.000	200.0	V	0.0	-5.7	35.2	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2369.875000	34.6	1000.0	1000.000	200.0	V	0.0	-5.8	19.4	54.0
2390.000000	27.7	1000.0	1000.000	200.0	V	0.0	-5.7	26.3	54.0

**Figure 8: Spectral Diagrams, Restricted frequency bands, Mode A.3**

2483.5MHz-2500MHz, Horizontal

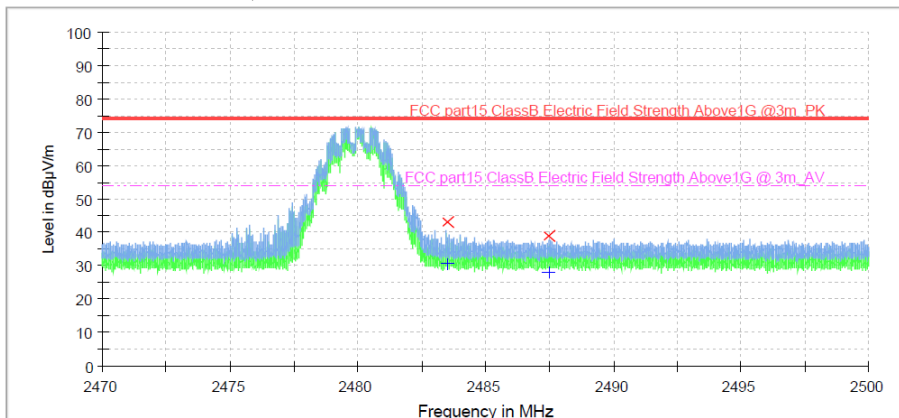

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2483.500000	49.8	1000.0	1000.000	200.0	H	0.0	-5.2	24.2	74.0
2487.555000	46.0	1000.0	1000.000	200.0	H	0.0	-5.2	28.0	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2483.500000	34.6	1000.0	1000.000	200.0	H	0.0	-5.2	19.4	54.0
2487.555000	30.9	1000.0	1000.000	200.0	H	0.0	-5.2	23.1	54.0

2483.5MHz-2500MHz, Vertical


**Limit and Margin-PK**

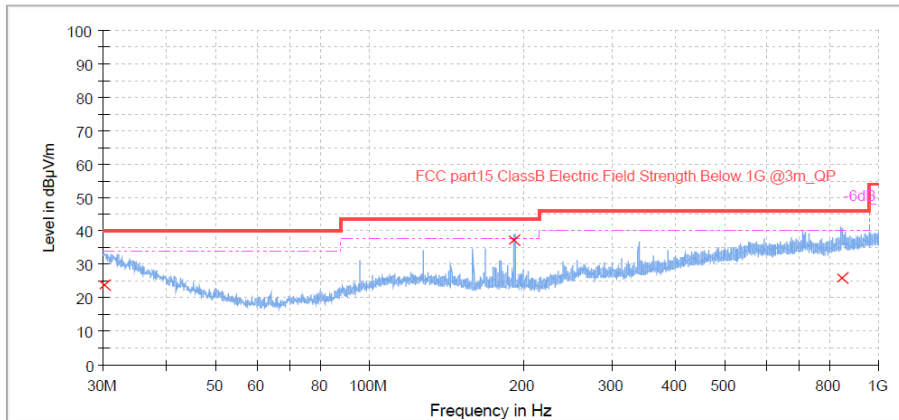
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2483.500000	43.2	1000.0	1000.000	200.0	V	0.0	-5.2	30.8	74.0
2487.455000	38.8	1000.0	1000.000	200.0	V	0.0	-5.2	35.2	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2483.500000	30.4	1000.0	1000.000	200.0	V	0.0	-5.2	23.6	54.0
2487.455000	28.1	1000.0	1000.000	200.0	V	0.0	-5.2	26.0	54.0

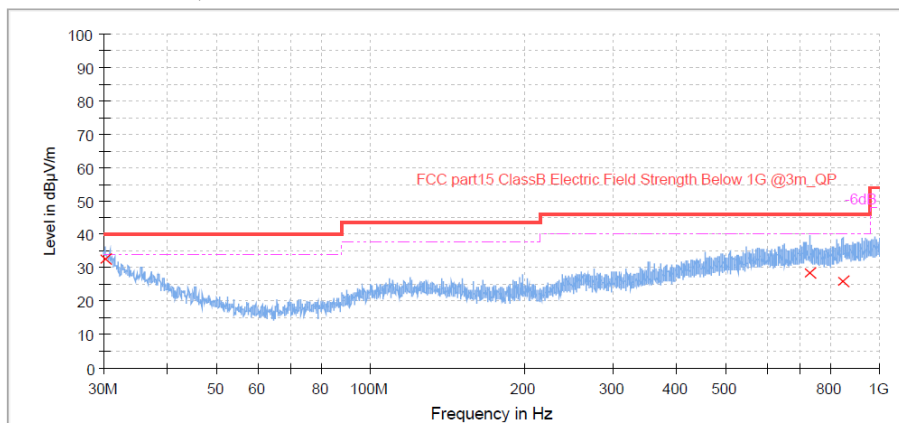
**Figure 9: Spectral Diagrams, Radiated Emission, Mode A.1**

30MHz-1000MHz, Horizontal

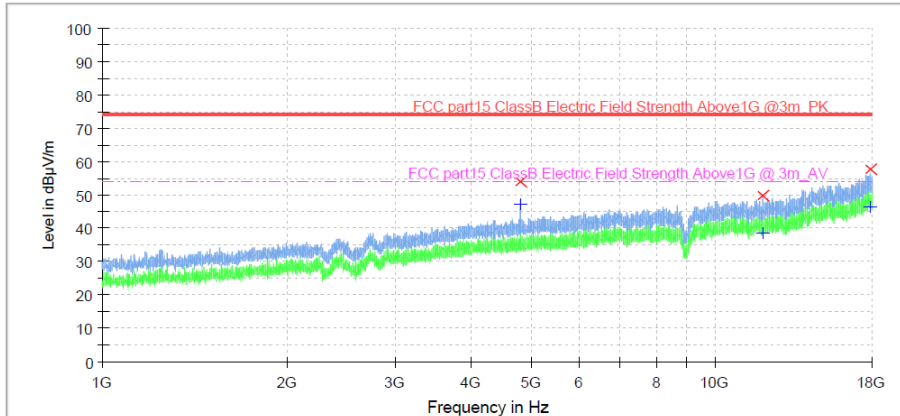

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.270000	23.8	1000.0	120.000	100.0	H	11.0	25.8	16.2	40.0
192.850000	37.2	1000.0	120.000	100.0	H	11.0	16.3	6.3	43.5
845.390000	26.0	1000.0	120.000	100.0	H	11.0	29.3	20.0	46.0

30MHz-1000MHz, Vertical


**Limit and Margin**

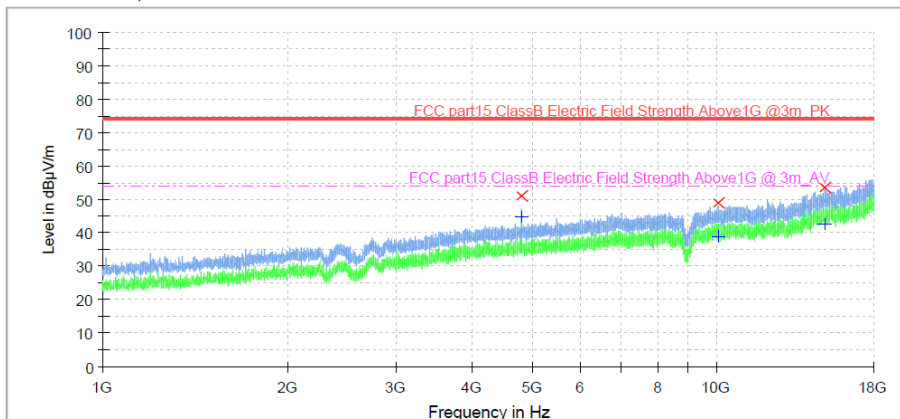
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.220000	32.5	1000.0	120.000	100.0	V	11.0	25.8	7.5	40.0
729.150000	28.3	1000.0	120.000	100.0	V	11.0	28.0	17.7	46.0
844.960000	26.1	1000.0	120.000	100.0	V	11.0	29.4	19.9	46.0

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4804.810000	54.1	1000.0	1000.000	200.0	H	335.0	3.0	19.9	74.0
11960.750000	49.8	1000.0	1000.000	200.0	H	335.0	11.8	24.3	74.0
17908.095000	57.7	1000.0	1000.000	200.0	H	335.0	21.7	16.3	74.0

**Limit and Margin-AV**

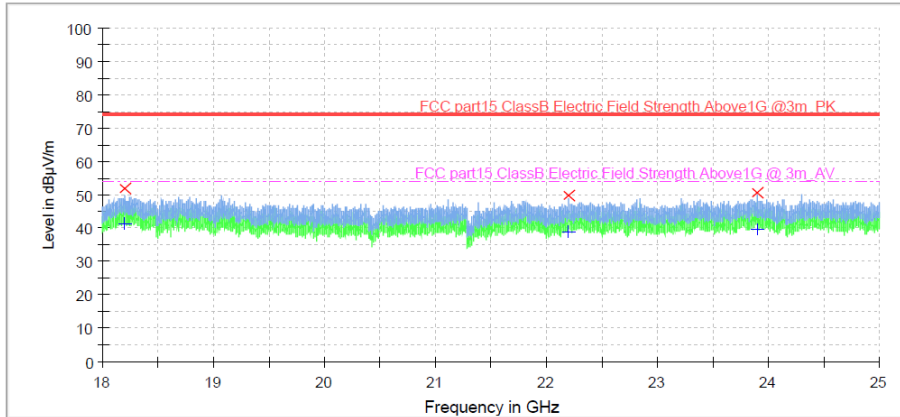
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4804.810000	47.4	1000.0	1000.000	200.0	H	335.0	3.0	6.6	54.0
11960.750000	38.6	1000.0	1000.000	200.0	H	335.0	11.8	15.4	54.0
17908.095000	46.4	1000.0	1000.000	200.0	H	335.0	21.7	7.7	54.0

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4803.220000	51.0	1000.0	1000.000	150.0	V	0.0	3.0	23.0	74.0
10025.935000	48.8	1000.0	1000.000	150.0	V	0.0	10.3	25.2	74.0
14994.720000	53.7	1000.0	1000.000	150.0	V	0.0	16.1	20.3	74.0

**Limit and Margin-AV**

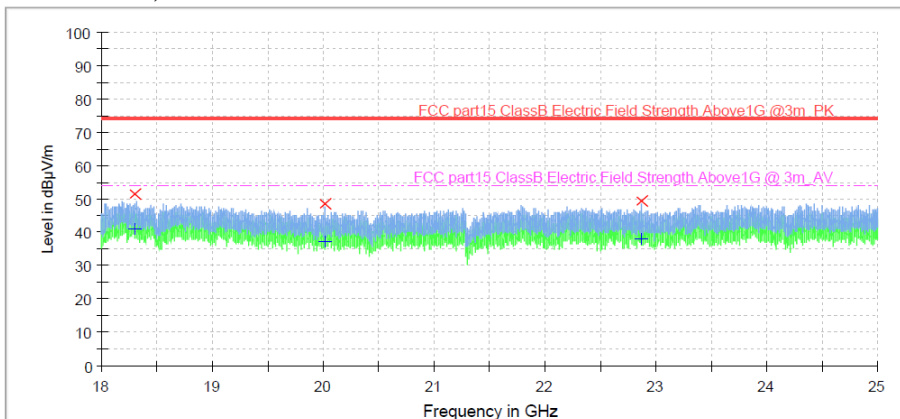
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4803.220000	44.7	1000.0	1000.000	150.0	V	0.0	3.0	9.3	54.0
10025.935000	39.0	1000.0	1000.000	150.0	V	0.0	10.3	15.1	54.0
14994.720000	42.8	1000.0	1000.000	150.0	V	0.0	16.1	11.2	54.0

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18200.595000	51.9	1000.0	1000.000	150.0	H	0.0	-6.4	22.1	74.0
22197.595000	49.9	1000.0	1000.000	150.0	H	0.0	-6.7	24.1	74.0
23899.250000	50.6	1000.0	1000.000	150.0	H	0.0	-5.0	23.4	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18200.595000	41.3	1000.0	1000.000	150.0	H	0.0	-6.4	12.7	54.0
22197.595000	38.9	1000.0	1000.000	150.0	H	0.0	-6.7	15.1	54.0
23899.250000	39.9	1000.0	1000.000	150.0	H	0.0	-5.0	14.1	54.0

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18296.185000	51.3	1000.0	1000.000	150.0	V	0.0	-6.7	22.7	74.0
20007.905000	48.4	1000.0	1000.000	150.0	V	0.0	-9.2	25.6	74.0
22865.435000	49.2	1000.0	1000.000	150.0	V	0.0	-5.5	24.8	74.0

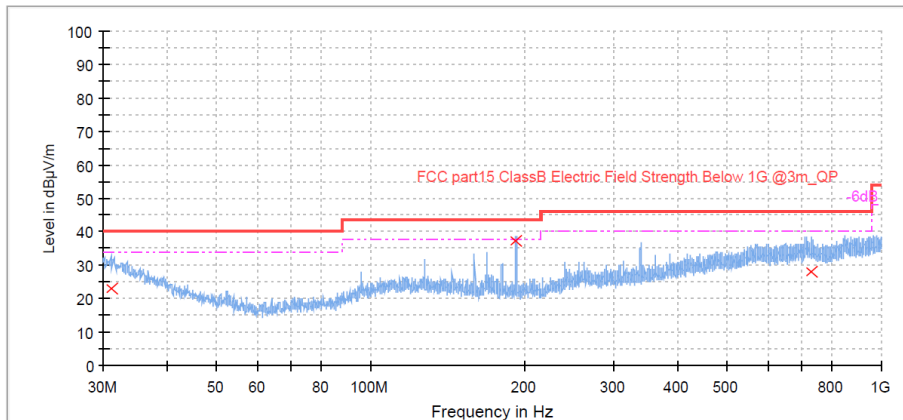
**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18296.185000	41.1	1000.0	1000.000	150.0	V	0.0	-6.7	12.9	54.0
20007.905000	37.2	1000.0	1000.000	150.0	V	0.0	-9.2	16.9	54.0
22865.435000	38.3	1000.0	1000.000	150.0	V	0.0	-5.5	15.7	54.0



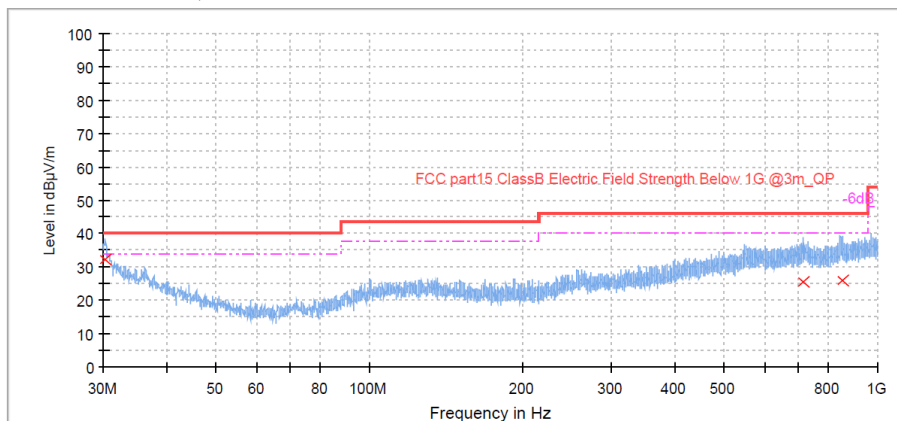
**Figure 10: Spectral Diagrams, Radiated Emission, Mode A.2**

30MHz-1000MHz, Horizontal

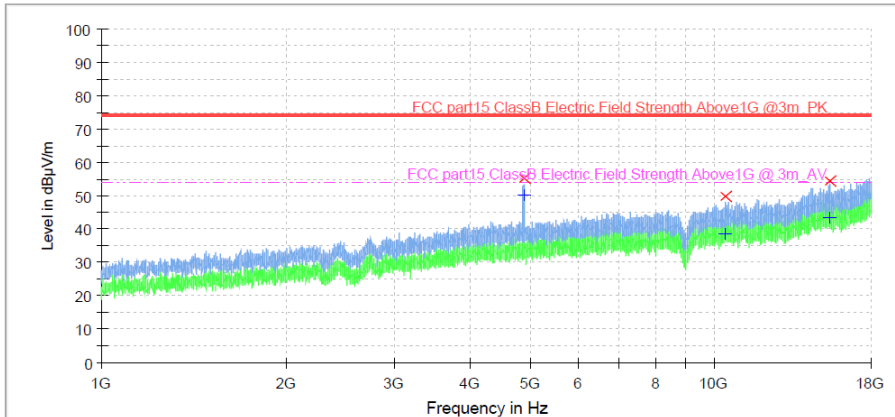

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.020000	22.9	1000.0	120.000	100.0	H	11.0	25.3	17.1	40.0
192.850000	37.2	1000.0	120.000	100.0	H	11.0	16.3	6.3	43.5
728.450000	28.2	1000.0	120.000	100.0	H	11.0	28.0	17.8	46.0

30MHz-1000MHz, Vertical


**Limit and Margin**

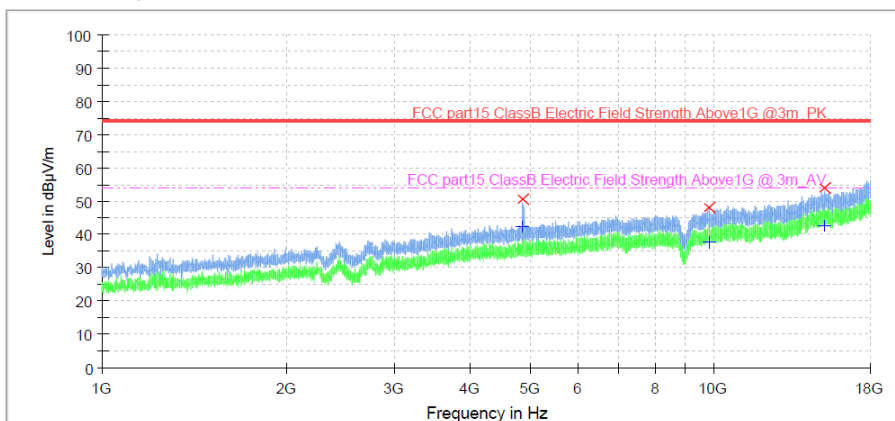
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.270000	32.4	1000.0	120.000	100.0	V	11.0	25.8	7.6	40.0
712.830000	25.7	1000.0	120.000	100.0	V	11.0	27.8	20.3	46.0
851.970000	26.1	1000.0	120.000	100.0	V	11.0	29.3	19.9	46.0

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4879.185000	55.3	1000.0	1000.000	200.0	H	0.0	3.2	18.7	74.0
10425.970000	49.8	1000.0	1000.000	200.0	H	0.0	10.9	24.3	74.0
15419.720000	54.3	1000.0	1000.000	200.0	H	0.0	16.2	19.7	74.0

**Limit and Margin-AV**

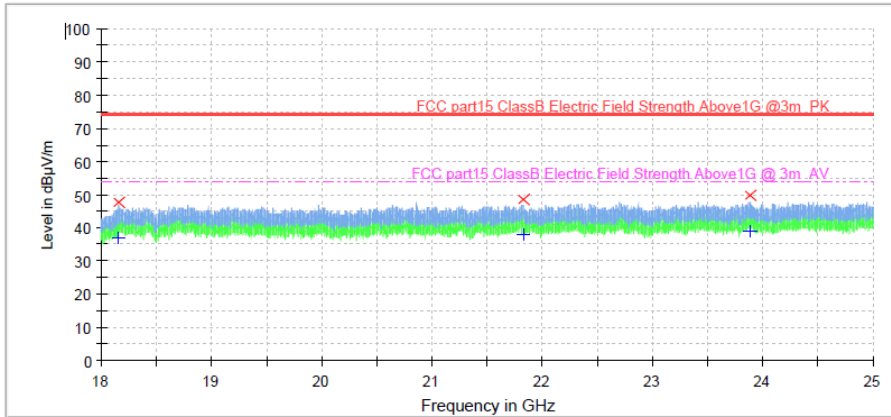
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4879.185000	50.4	1000.0	1000.000	200.0	H	0.0	3.2	3.6	54.0
10425.970000	38.6	1000.0	1000.000	200.0	H	0.0	10.9	15.4	54.0
15419.720000	43.5	1000.0	1000.000	200.0	H	0.0	16.2	10.5	54.0

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4878.655000	50.5	1000.0	1000.000	150.0	V	335.0	3.2	23.6	74.0
9817.155000	48.3	1000.0	1000.000	150.0	V	335.0	10.0	25.7	74.0
15104.685000	53.8	1000.0	1000.000	150.0	V	335.0	16.1	20.2	74.0

**Limit and Margin-AV**

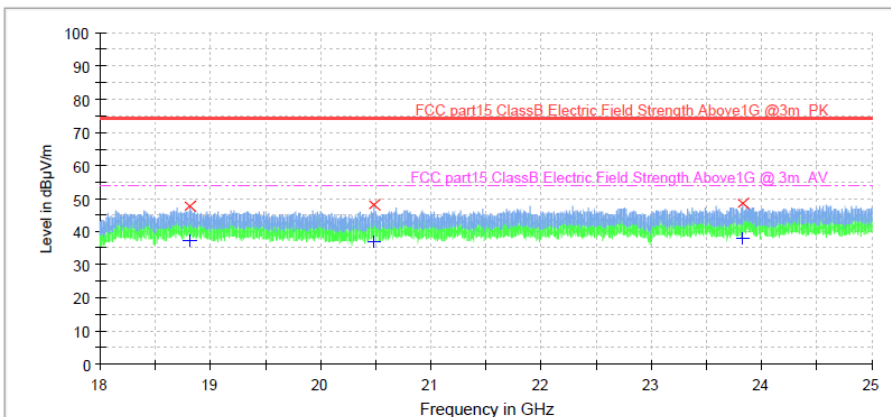
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4878.655000	42.1	1000.0	1000.000	150.0	V	335.0	3.2	23.6	74.0
9817.155000	37.6	1000.0	1000.000	150.0	V	335.0	10.0	25.7	74.0
15104.685000	42.9	1000.0	1000.000	150.0	V	335.0	16.1	20.2	74.0

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18160.560000	47.5	1000.0	1000.000	150.0	H	0.0	-9.9	26.5	74.0
21827.470000	48.5	1000.0	1000.000	150.0	H	0.0	-7.2	25.5	74.0
23882.845000	49.8	1000.0	1000.000	150.0	H	0.0	-5.2	24.2	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18160.560000	37.0	1000.0	1000.000	150.0	H	0.0	-9.9	17.1	54.0
21827.470000	37.9	1000.0	1000.000	150.0	H	0.0	-7.2	16.1	54.0
23882.845000	39.0	1000.0	1000.000	150.0	H	0.0	-5.2	15.0	54.0

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

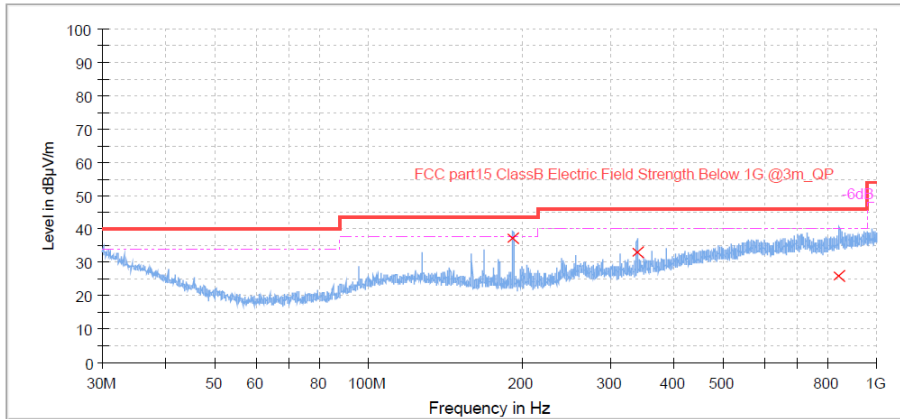
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18818.560000	47.8	1000.0	1000.000	150.0	V	0.0	-9.9	26.2	74.0
20485.000000	48.2	1000.0	1000.000	150.0	V	0.0	-9.0	25.8	74.0
23834.500000	48.7	1000.0	1000.000	150.0	V	0.0	-5.1	25.3	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18818.560000	37.1	1000.0	1000.000	150.0	V	0.0	-9.9	16.9	54.0
20485.000000	37.0	1000.0	1000.000	150.0	V	0.0	-9.0	17.1	54.0
23834.500000	38.3	1000.0	1000.000	150.0	V	0.0	-5.1	15.8	54.0

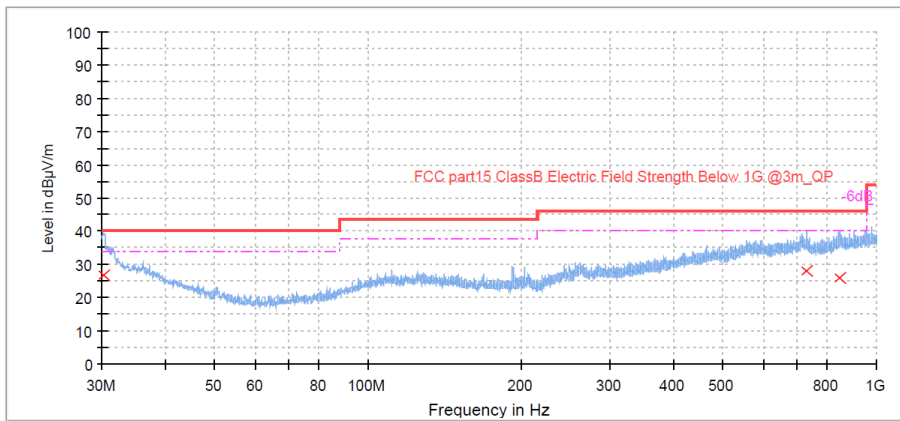
**Figure 11: Spectral Diagrams, Radiated Emission, Mode A.3**

30MHz-1000MHz, Horizontal

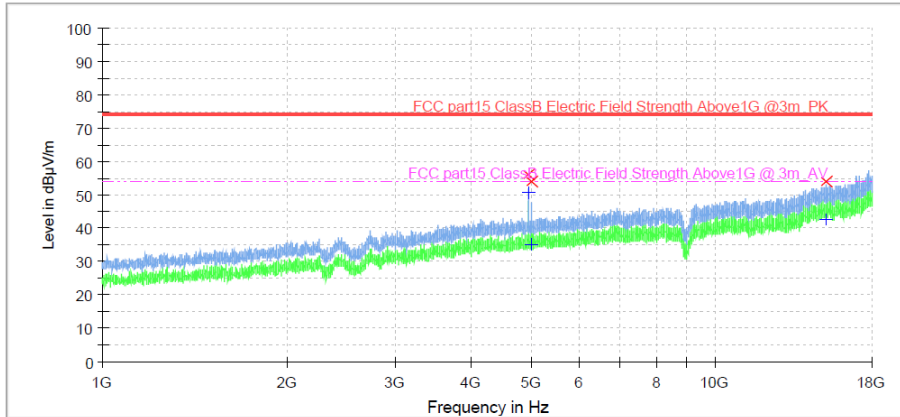

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
192.850000	37.1	1000.0	120.000	100.0	H	11.0	16.3	6.4	43.5
337.440000	32.9	1000.0	120.000	100.0	H	11.0	21.8	13.1	46.0
844.850000	26.2	1000.0	120.000	100.0	H	11.0	29.4	19.9	46.0

30MHz-1000MHz, Vertical


**Limit and Margin**

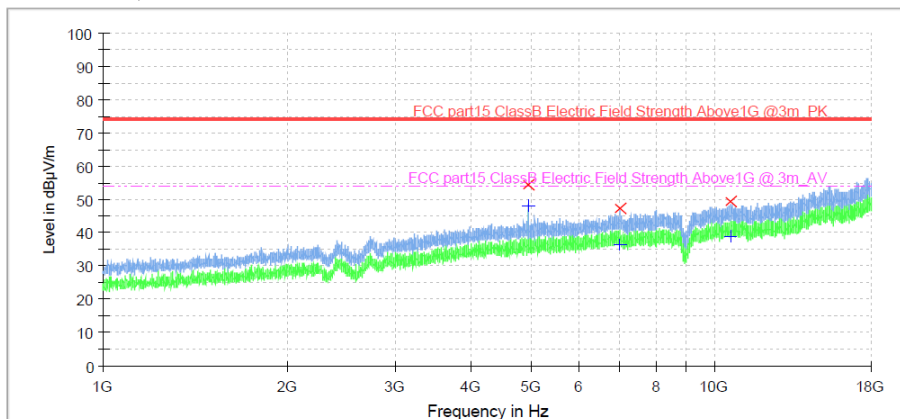
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.320000	26.8	1000.0	120.000	200.0	V	11.0	25.8	13.2	40.0
729.590000	28.2	1000.0	120.000	200.0	V	11.0	28.0	17.8	46.0
846.150000	26.1	1000.0	120.000	200.0	V	11.0	29.3	19.9	46.0

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4958.875000	56.1	1000.0	1000.000	200.0	H	0.0	3.4	17.9	74.0
5018.905000	54.2	1000.0	1000.000	200.0	H	0.0	3.6	19.9	74.0
15164.185000	54.1	1000.0	1000.000	200.0	H	0.0	16.2	20.0	74.0

**Limit and Margin-AV**

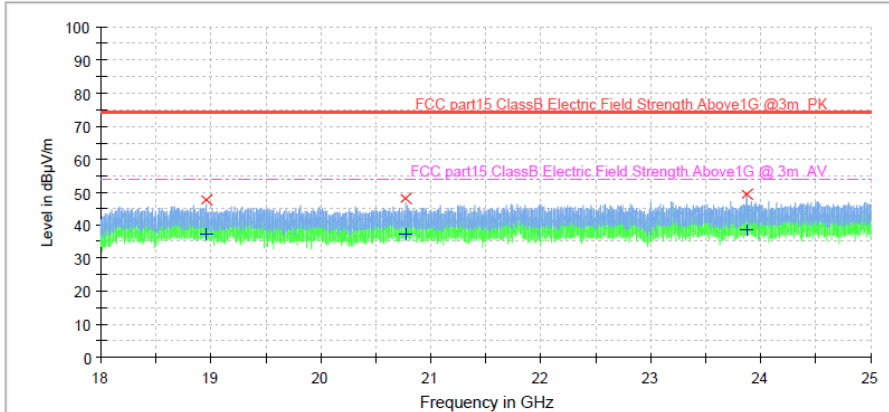
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4958.875000	50.4	1000.0	1000.000	200.0	H	0.0	3.4	3.6	54.0
5018.905000	35.1	1000.0	1000.000	200.0	H	0.0	3.6	18.9	54.0
15164.185000	42.8	1000.0	1000.000	200.0	H	0.0	16.2	11.3	54.0

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4958.875000	54.4	1000.0	1000.000	200.0	V	0.0	3.4	19.6	74.0
6974.435000	47.4	1000.0	1000.000	200.0	V	0.0	7.3	26.6	74.0
10602.345000	49.5	1000.0	1000.000	200.0	V	0.0	11.1	24.5	74.0

**Limit and Margin-AV**

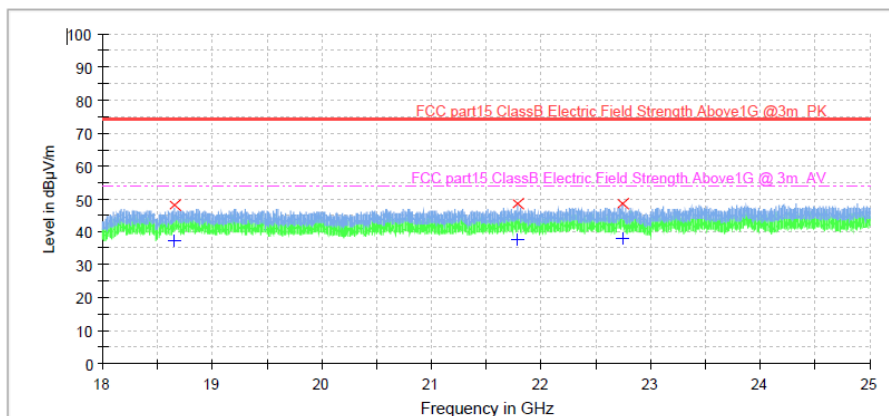
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
4958.875000	48.0	1000.0	1000.000	200.0	V	0.0	3.4	6.0	54.0
6974.435000	36.2	1000.0	1000.000	200.0	V	0.0	7.3	17.8	54.0
10602.345000	38.8	1000.0	1000.000	200.0	V	0.0	11.1	15.2	54.0

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18950.470000	47.7	1000.0	1000.000	150.0	H	0.0	-9.9	26.3	74.0
20774.625000	48.0	1000.0	1000.000	150.0	H	0.0	-8.6	26.0	74.0
23878.250000	49.5	1000.0	1000.000	150.0	H	0.0	-5.2	24.6	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18950.470000	37.1	1000.0	1000.000	150.0	H	0.0	-9.9	16.9	54.0
20774.625000	37.1	1000.0	1000.000	150.0	H	0.0	-8.6	17.0	54.0
23878.250000	38.7	1000.0	1000.000	150.0	H	0.0	-5.2	15.3	54.0

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

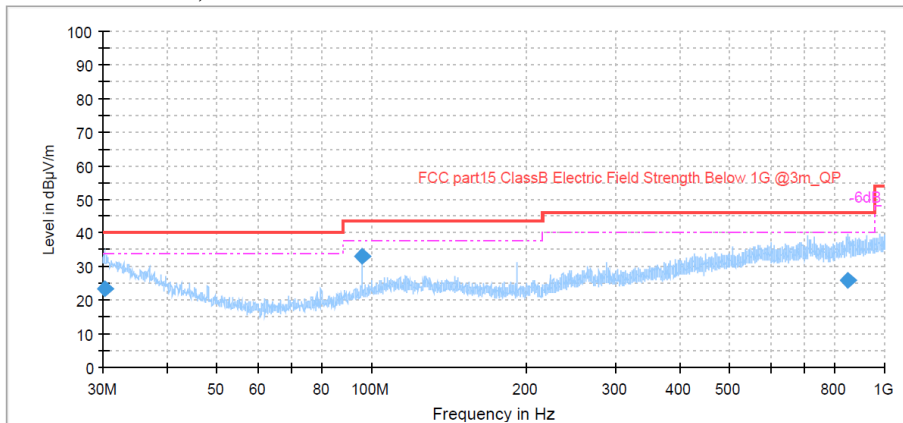
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18654.280000	48.0	1000.0	1000.000	150.0	V	0.0	-9.8	26.0	74.0
21785.685000	48.6	1000.0	1000.000	150.0	V	0.0	-7.2	25.5	74.0
22740.970000	48.7	1000.0	1000.000	150.0	V	0.0	-5.7	25.3	74.0

**Limit and Margin-AV**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
18654.280000	37.4	1000.0	1000.000	150.0	V	0.0	-9.8	16.6	54.0
21785.685000	37.9	1000.0	1000.000	150.0	V	0.0	-7.2	16.2	54.0
22740.970000	37.9	1000.0	1000.000	150.0	V	0.0	-5.7	16.1	54.0

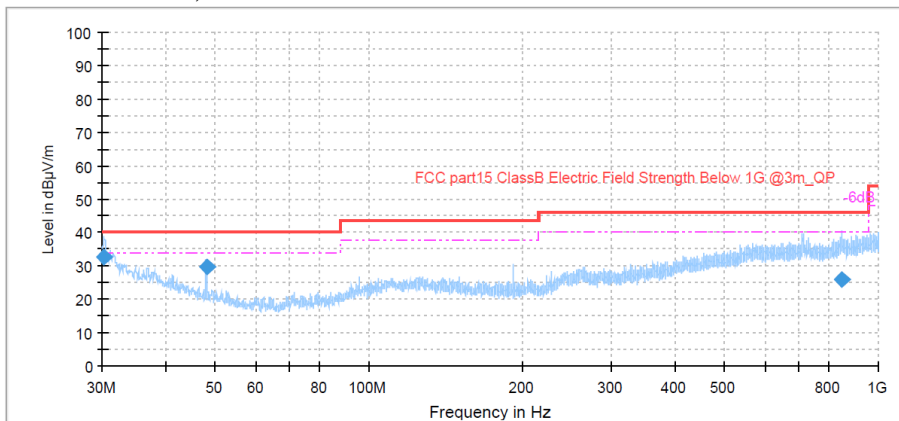
**Figure 12: Spectral Diagrams, Radiated Emission, Mode B**

30MHz-1000MHz, Horizontal


**Final Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
30.280000	23.48	40.00	16.52	1000.0	120.000	185.0	H	271.0	25.8
95.980000	32.93	43.50	10.57	1000.0	120.000	228.0	H	16.0	17.3
850.400000	26.10	46.00	19.90	1000.0	120.000	130.0	H	308.0	29.3

30MHz-1000MHz, Vertical


**Final Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB)
30.280000	32.47	40.00	7.53	1000.0	120.000	127.0	V	308.0	25.8
48.005000	29.60	40.00	10.40	1000.0	120.000	121.0	V	217.0	16.1
846.408889	26.04	46.00	19.96	1000.0	120.000	177.0	V	338.0	29.3

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