Prüfbericht-Nr.: *Test report no.*:	**CN25N81S 001**	**Auftrags-Nr.:** *Order no.*:	180314642	Seite 1 von 35 *Page 1 of 35*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2025.01.02	
Auftraggeber: *Client*:	Ningbo Dooya Mechanic & Electronic Technology Co., Ltd. No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo ZHEJIANG, China			
Prüfgegenstand: *Test item*:	BLE Module			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	DD6600-RF			
Auftrags-Inhalt: *Order content*:	TÜV Rheinland – FCC Service			
Prüfgrundlage: *Test specification*:	**FCC Part 15.203** **FCC Part 15.247**			

Wareneingangsdatum: *Date of sample receipt*:	2025.01.02	Refer to Photo Documentation
Prüfmuster-Nr.: *Test sample no:*	A003902463-001	
Prüfzeitraum: *Testing period*:	2025.01.02 - 2025.01.19	
Ort der Prüfung: *Place of testing*:	Refer to section 1.1	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.	
Prüfergebnis*: *Test result**:	**Pass**	

geprüft von: *tested by*:		**genehmigt von:** *authorized by*:	
Datum: *Date*: 2025.02.14	Keda Zhou	**Ausstelldatum:** *Issue date*: 2025.02.14	Chonghai Liang
Stellung / Position:	Keda Zhou/PE	**Stellung** / Position:	Chonghai Liang/Authorizer

Sonstiges / *Other*: FCC ID: VYYDD6600

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

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 descripted 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 Messergebnisen 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 bezueglich 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 CONDUCTED OUTPUT POWER
Result:
Pass
4.1.4 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

Contents

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	2024.10.23	2025.10.22
Spectrum analyzer	FSV40	101412	2024.10.23	2025.10.22
Bilog Antenna	CBL6112D	49033	2024.03.17	2027.03.16
Horn antenna	HF907	102653	2023.07.20	2026.07.19
Broad-Band Horn Antenna	BBHA 9170	899	2024.01.05	2027.01.04
Pre-amplifier	SCU-18F	180051	2024.10.23	2025.10.22
Pre-amplifier	LNPA_1840G-50	SK2021040801	2024.10.28	2025.10.27
RF control Unit	JS0806-2	22G8060598	2024.10.25	2025.10.24
Mains control unit	JS0806-4ADC	21L8060536	2024.10.23	2025.10.22

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 BLE Module 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 3.3V
Protection Class:	Class III
Technical Specification of Bluetooth (BLE)	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps, 2Mbps, 125Kbps, 500Kbps
Channel:	0-39
Antenna Type:	External Antenna with IPEX
Antenna Gain:	1dBi

Table 4: Channel List

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

2.3 Independent Operation Modes

There are some modes:
Mode A: Transmitting continuously of BLE 1Mbps
1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode B: Transmitting continuously of BLE 2Mbps
1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode C: Transmitting continuously of BLE 125Kbps
1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode D: Transmitting continuously of BLE 500Kbps
1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode E: 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: 2020.

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	KEJIESHENG	HGJI-1509T
Notebook	Lenovo	ThinkPad X380 Yoga

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)

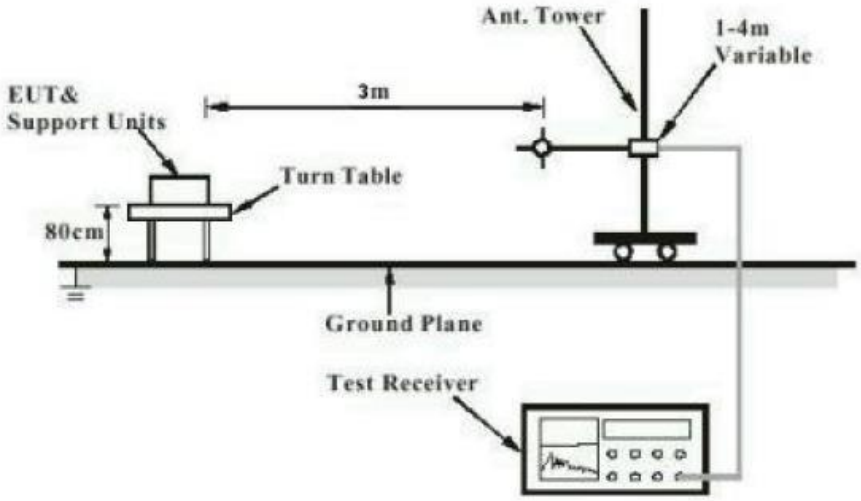


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

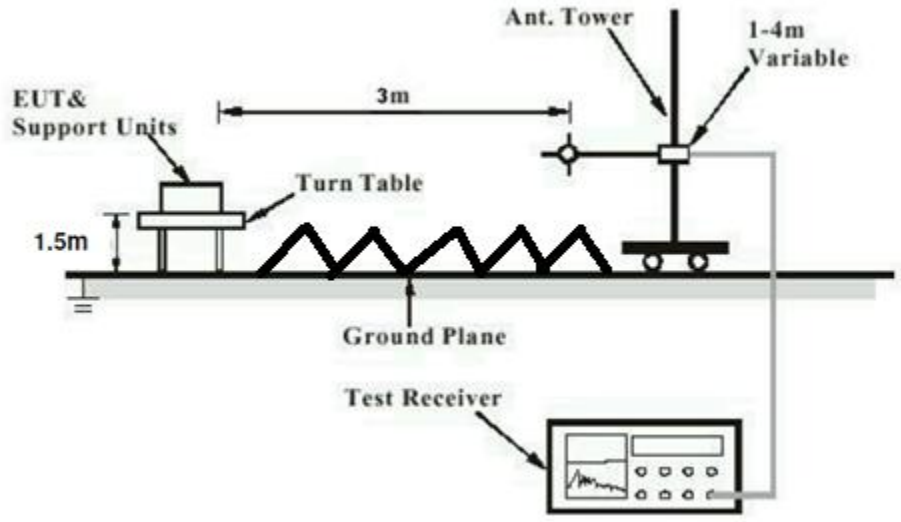
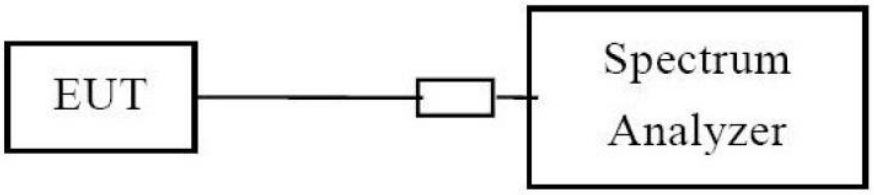


Diagram of Measurement Configuration for Conducted Transmitter Measurement



4. Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

Result: **Pass**

Test Specification
Test standard : FCC Part 15.203
Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an antenna with IPEX connector (Antenna Gain: 1dBi), 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 Part 15.247 (a)(2)
Basic standard	:	ANSI C63.10: 2020, Clause 11.8.1
Limits	:	At least 500kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025.01.19
Input voltage	:	DC 3.3V
Operational mode	:	A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.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	700	≥500	Pass
A.2	720	≥500	Pass
A.3	700	≥500	Pass
B.1	1130	≥500	Pass
B.2	1140	≥500	Pass
B.3	1130	≥500	Pass
C.1	610	≥500	Pass
C.2	610	≥500	Pass
C.3	610	≥500	Pass
D.1	690	≥500	Pass
D.2	700	≥500	Pass
D.3	710	≥500	Pass

4.1.3 Maximum Conducted Output Power

Result: **Pass**

Test Specification

Test standard	:	FCC Part 15.247 (b)(3)
Basic standard	:	ANSI C63.10: 2020, Clause 11.9.2.2
Limits	:	Not more than 1Watt(30dBm)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025.01.19
Input voltage	:	DC 3.3V
Operational mode	:	A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3
Temperature	:	23°C
Relative humidity	:	56%
Atmospheric pressure	:	101.2 kPa

Table 7: Test result of Maximum Conducted Output Power

Mode	Output Power (dBm)	Limit (dBm)	Verdict
A.1	5.76	≤30	Pass
A.2	5.66	≤30	Pass
A.3	5.33	≤30	Pass
B.1	5.71	≤30	Pass
B.2	5.66	≤30	Pass
B.3	5.32	≤30	Pass
C.1	5.71	≤30	Pass
C.2	5.67	≤30	Pass
C.3	5.33	≤30	Pass
D.1	5.68	≤30	Pass
D.2	5.63	≤30	Pass
D.3	5.31	≤30	Pass

4.1.4 Power Spectral Density

Result: **Pass**

Test Specification

Test standard	:	FCC Part 15.247 (e)
Basic standard	:	ANSI C63.10: 2020, Clause 11.10.3
Limits	:	Not more than 8 dBm in any 3 kHz band
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025.01.19
Input voltage	:	DC 3.3V
Operational mode	:	A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.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	-10.01	≤8	Pass
A.2	-10.08	≤8	Pass
A.3	-10.42	≤8	Pass
B.1	-12.45	≤8	Pass
B.2	-12.75	≤8	Pass
B.3	-13.04	≤8	Pass
C.1	-0.46	≤8	Pass
C.2	-0.44	≤8	Pass
C.3	-0.77	≤8	Pass
D.1	-0.68	≤8	Pass
D.2	-0.66	≤8	Pass
D.3	-0.99	≤8	Pass

4.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Result: **Pass**

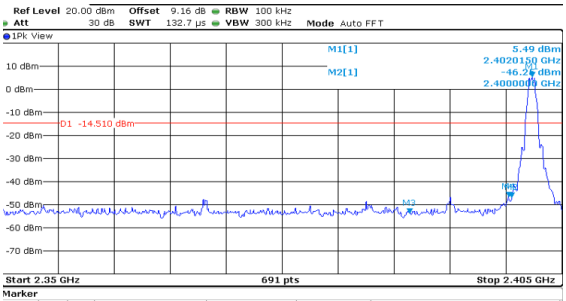
Test Specification		
Test standard	:	FCC Part 15.247 (d)
Basic standard	:	ANSI C63.10: 2020, Clause 11.11
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025.01.19
Input voltage	:	DC 3.3V
Operational mode	:	A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3
Temperature	:	23°C
Relative humidity	:	56%
Atmospheric pressure	:	101.2 kPa

Figure 1: Band Edge

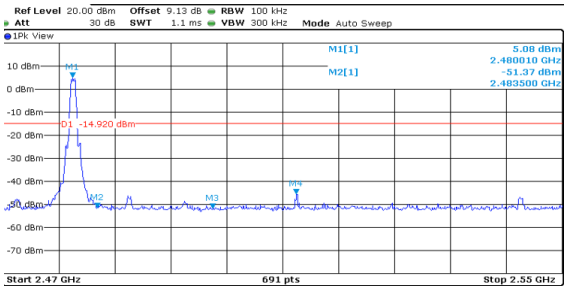
A.1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	5.49 dBm		
M2		1	2.4 GHz	-46.25 dBm		
M3		1	2.39 GHz	-53.67 dBm		
M4		1	2.3997391 GHz	-46.52 dBm		

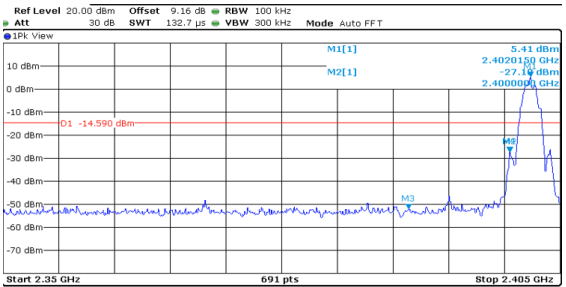
A.3



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.08 dBm		
M2		1	2.4835 GHz	-51.37 dBm		
M3		1	2.5 GHz	-51.85 dBm		
M4		1	2.511971 GHz	-45.31 dBm		

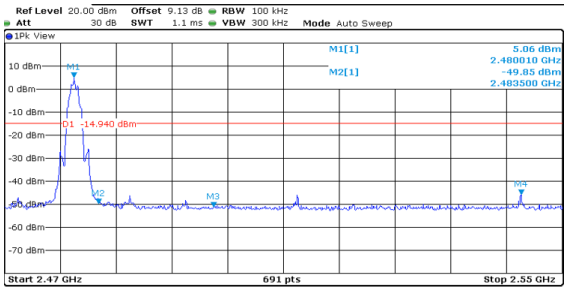
B.1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	5.41 dBm		
M2		1	2.4 GHz	-27.18 dBm		
M3		1	2.39 GHz	-51.95 dBm		
M4		1	2.3999783 GHz	-27.33 dBm		

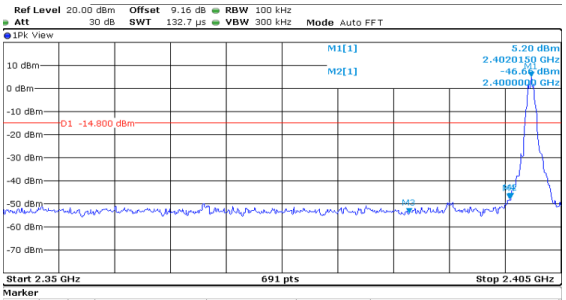
B.3



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.06 dBm		
M2		1	2.4835 GHz	-49.85 dBm		
M3		1	2.5 GHz	-51.06 dBm		
M4		1	2.544087 GHz	-45.73 dBm		

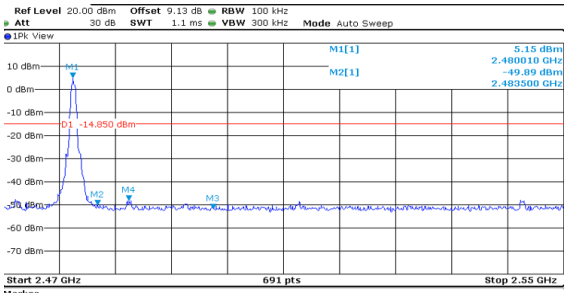
C.1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	5.20 dBm		
M2		1	2.4 GHz	-46.66 dBm		
M3		1	2.39 GHz	-53.95 dBm		
M4		1	2.3998986 GHz	-47.81 dBm		

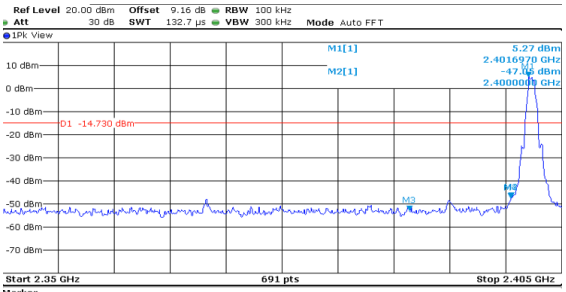
C.3



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.15 dBm		
M2		1	2.4835 GHz	-49.89 dBm		
M3		1	2.5 GHz	-51.84 dBm		
M4		1	2.487971 GHz	-48.14 dBm		

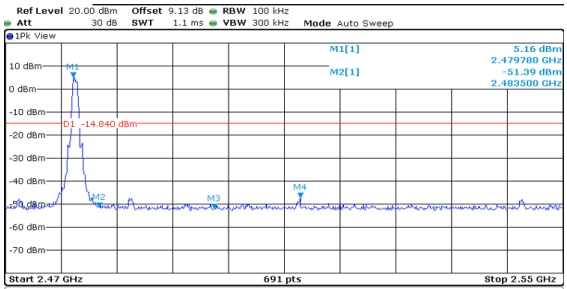
D.1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401697 GHz	5.27 dBm		
M2		1	2.4 GHz	-47.05 dBm		
M3		1	2.39 GHz	-52.85 dBm		
M4		1	2.3999783 GHz	-47.66 dBm		

D.3

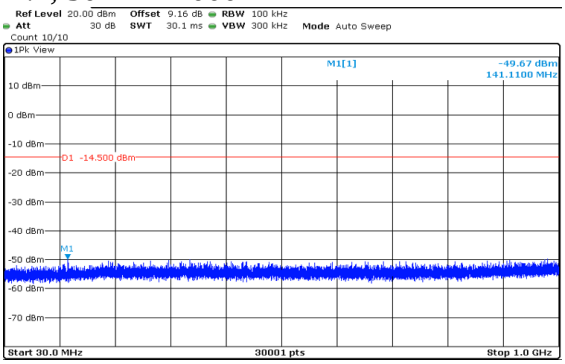


Marker

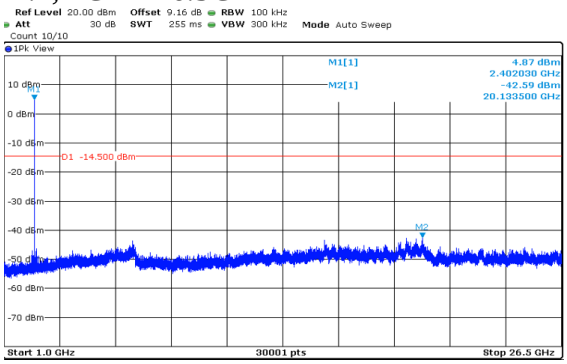
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47978 GHz	5.16 dBm		
M2		1	2.4835 GHz	-51.39 dBm		
M3		1	2.5 GHz	-52.09 dBm		
M4		1	2.512319 GHz	-47.16 dBm		

Figure 2: Conducted Spurious Emission

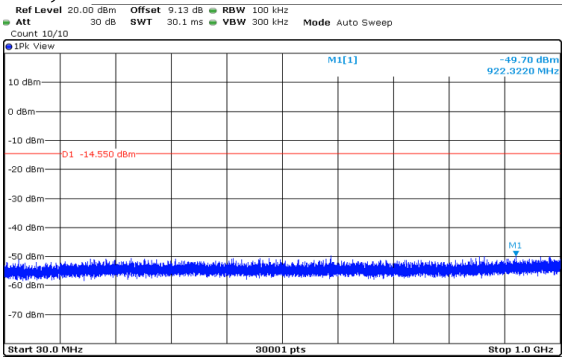
A.1, 30MHz-1000MHz



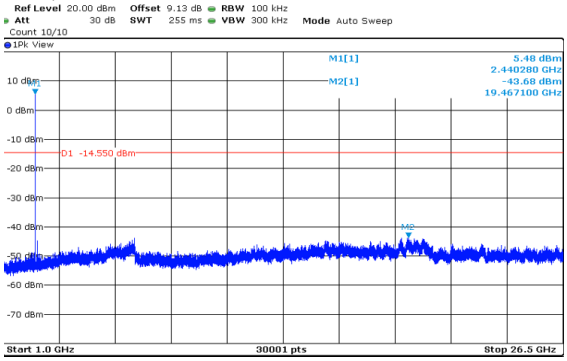
A.1, 1GHz-26.5GHz



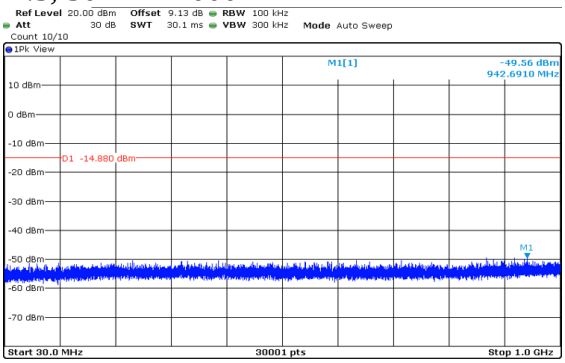
A.2, 30MHz-1000MHz



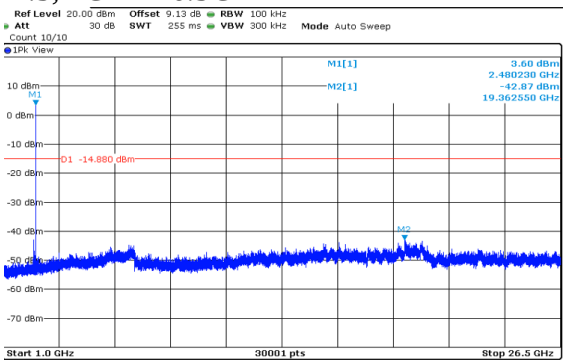
A.2, 1GHz-26.5GHz



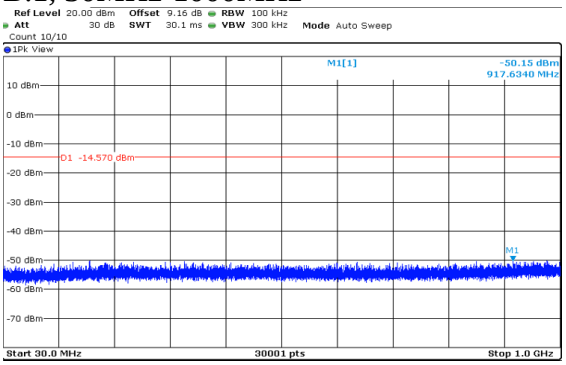
A.3, 30MHz-1000MHz



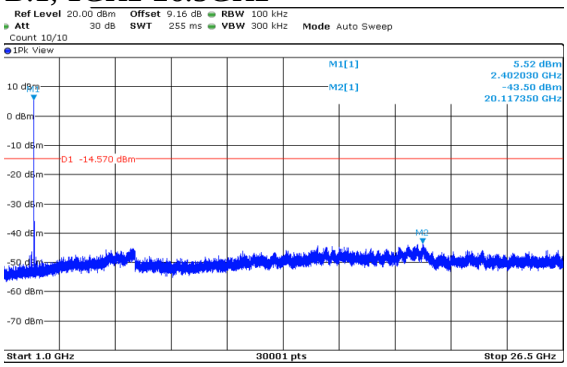
A.3, 1GHz-26.5GHz



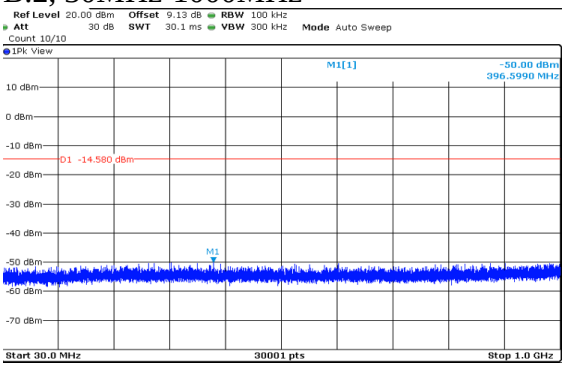
B.1, 30MHz-1000MHz



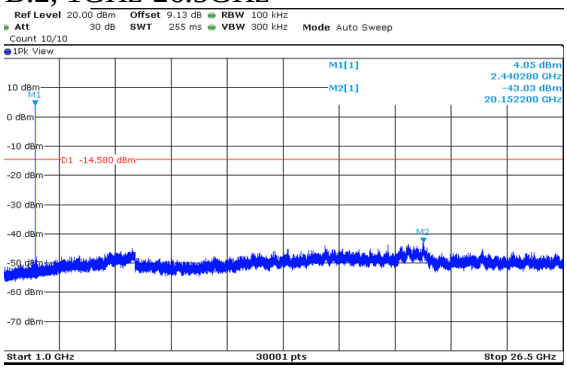
B.1, 1GHz-26.5GHz



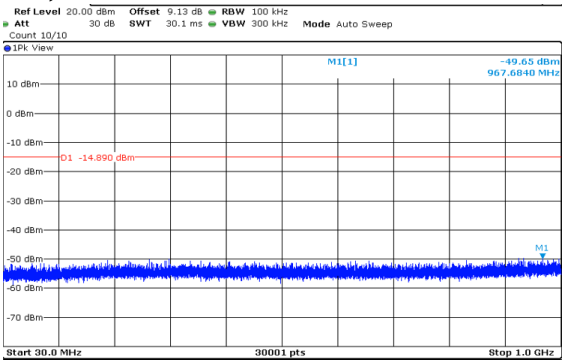
B.2, 30MHz-1000MHz



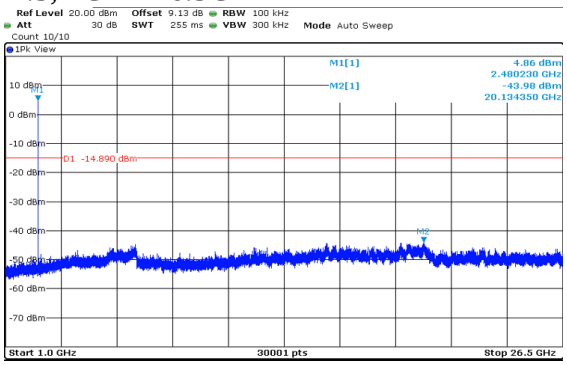
B.2, 1GHz-26.5GHz



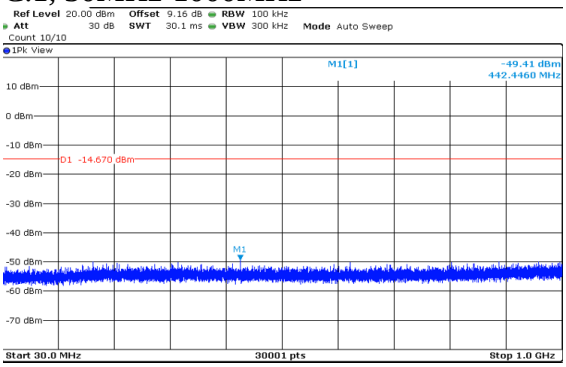
B.3, 30MHz-1000MHz



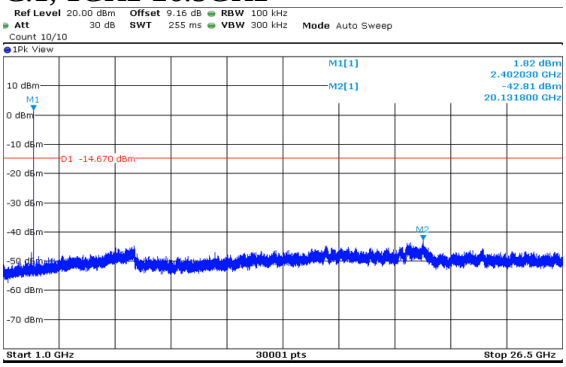
B.3, 1GHz-26.5GHz



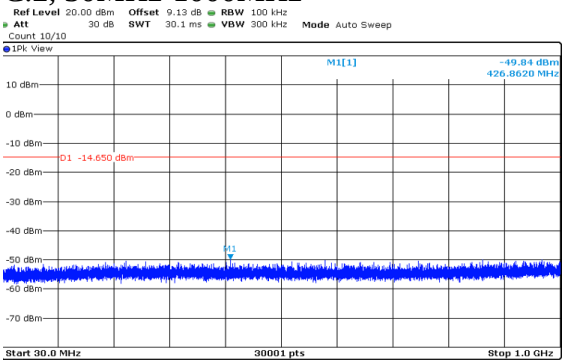
C.1, 30MHz-1000MHz



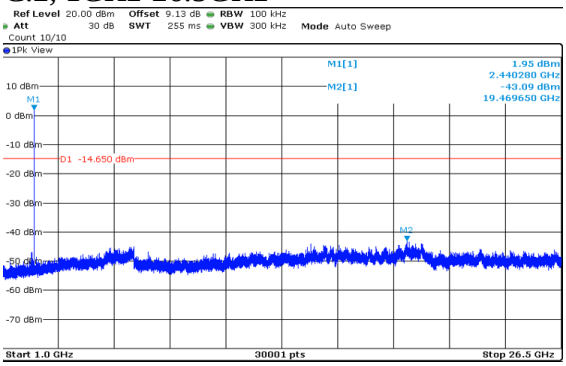
C.1, 1GHz-26.5GHz



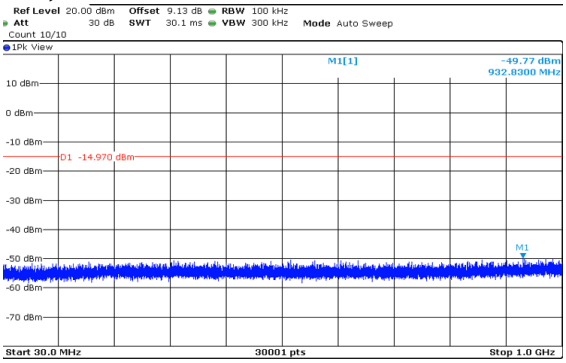
C.2, 30MHz-1000MHz



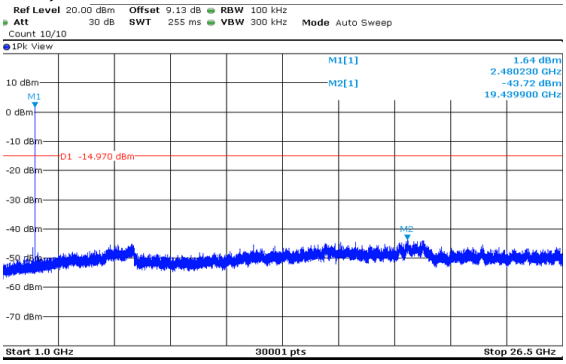
C.2, 1GHz-26.5GHz



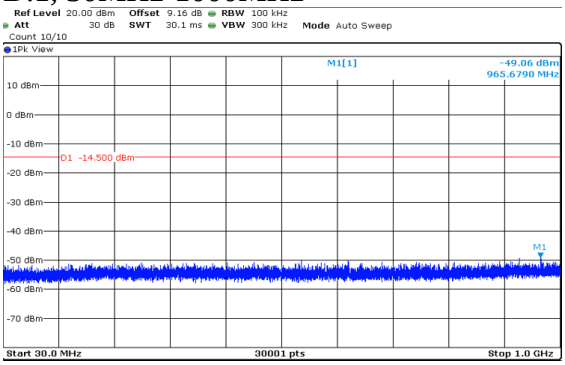
C.3, 30MHz-1000MHz



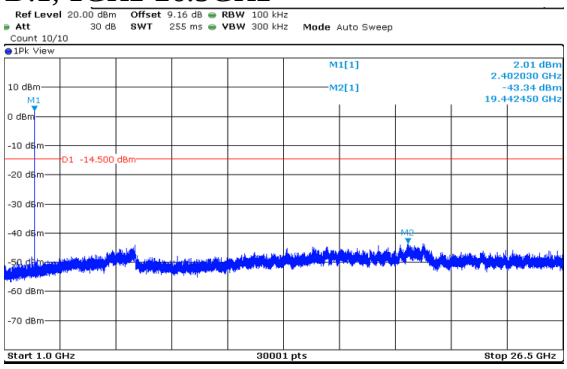
C.3, 1GHz-26.5GHz



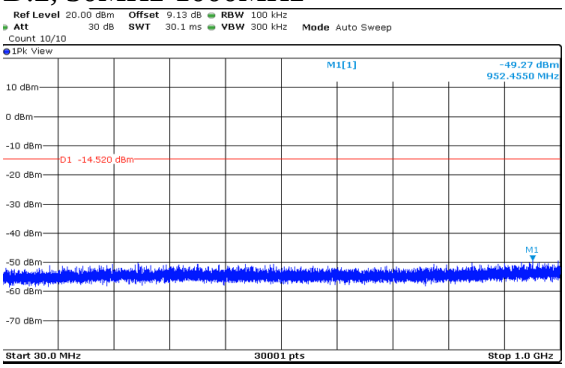
D.1, 30MHz-1000MHz



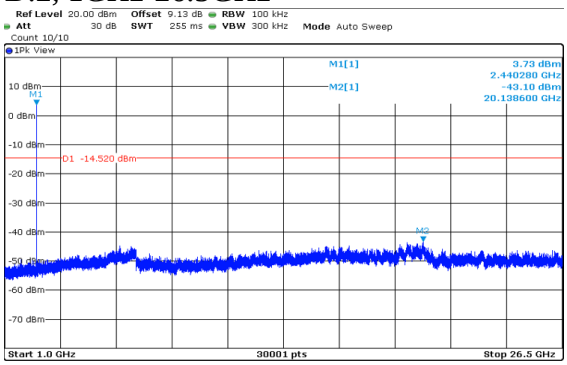
D.1, 1GHz-26.5GHz



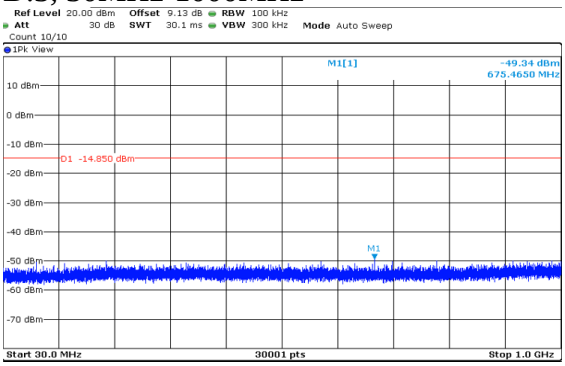
D.2, 30MHz-1000MHz



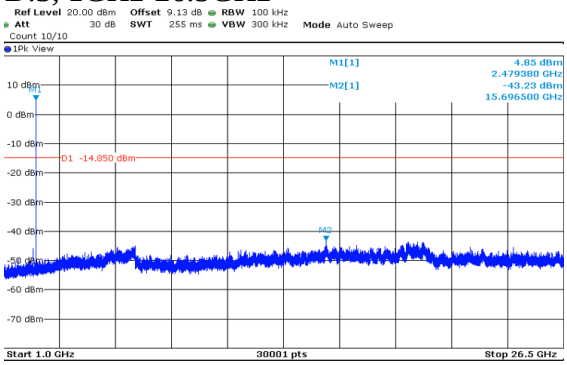
D.2, 1GHz-26.5GHz



D.3, 30MHz-1000MHz



D.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	:	FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2020, Clause 6.2
Port	:	Mains
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shielding Room

Test Setup

Date of testing	:	2025.01.19
Input voltage	:	AC 110V to DC 3.3V
Operational mode	:	E
Temperature	:	21°C
Relative humidity	:	63%
Atmospheric pressure	:	101.2 kPa

The measurement setup was made according to ANSI C63.10: 2020 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with ANSI C63.10: 2020 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.

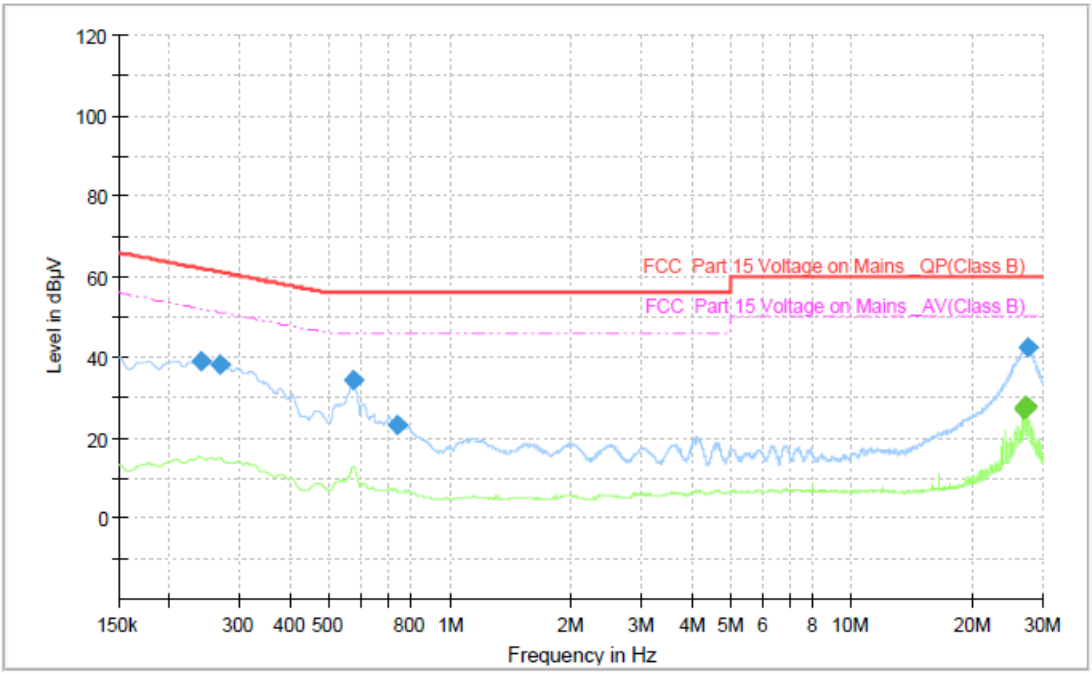
Before measurement, a survey was made to determine in which state the maximum disturbance was obtained. And the measurement was made in the state the maximum disturbance was obtained.

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)

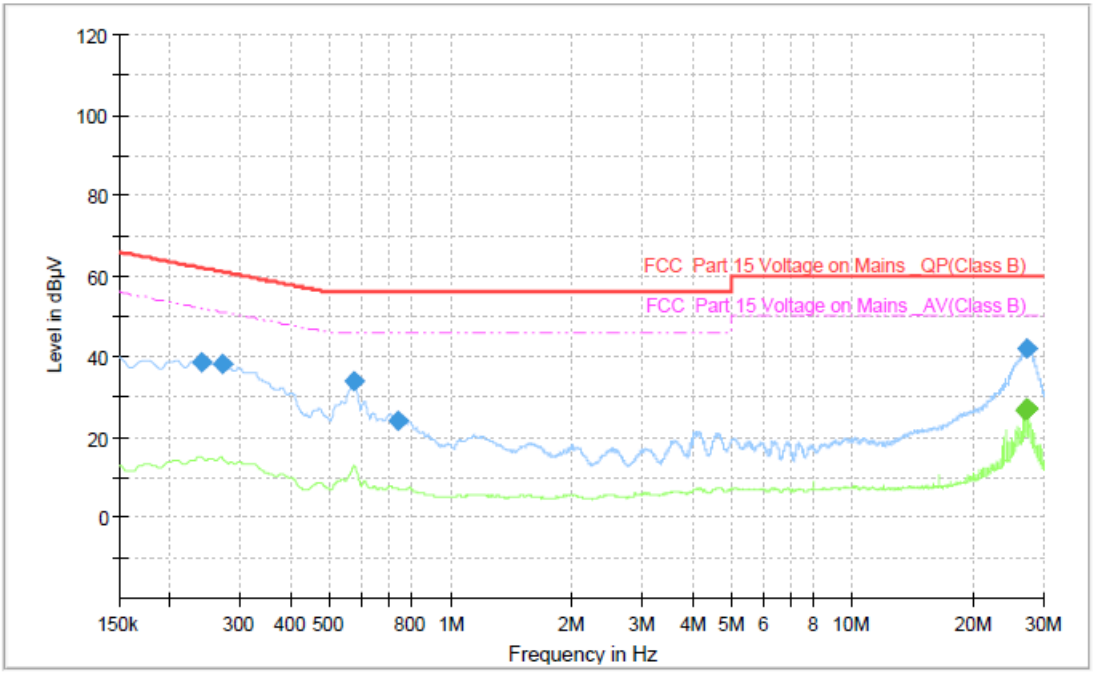
Figure 3: Spectral Diagrams, Conducted Emission, 150KHz - 30MHz, L



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.240000	39.24	---	62.10	22.85	1000.0	9.000	L1	ON	9.7
0.267000	38.43	---	61.21	22.78	1000.0	9.000	L1	ON	9.7
0.573000	34.18	---	56.00	21.82	1000.0	9.000	L1	ON	9.7
0.737250	23.24	---	56.00	32.76	1000.0	9.000	L1	ON	9.7
26.922750	---	27.27	50.00	22.73	1000.0	9.000	L1	ON	10.2
26.963250	---	27.45	50.00	22.55	1000.0	9.000	L1	ON	10.2
27.082500	---	27.63	50.00	22.37	1000.0	9.000	L1	ON	10.2
27.123000	---	27.78	50.00	22.22	1000.0	9.000	L1	ON	10.2
27.163500	---	27.75	50.00	22.25	1000.0	9.000	L1	ON	10.2
27.606750	42.40	---	60.00	17.60	1000.0	9.000	L1	ON	10.2

Figure 4: 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)
0.240000	38.79	---	62.10	23.31	1000.0	9.000	N	ON	9.6
0.269250	38.34	---	61.14	22.80	1000.0	9.000	N	ON	9.6
0.573000	33.99	---	56.00	22.01	1000.0	9.000	N	ON	9.6
0.737250	24.04	---	56.00	31.96	1000.0	9.000	N	ON	9.6
26.963250	---	26.82	50.00	23.18	1000.0	9.000	N	ON	10.2
27.044250	---	26.95	50.00	23.05	1000.0	9.000	N	ON	10.2
27.082500	---	26.98	50.00	23.02	1000.0	9.000	N	ON	10.2
27.123000	---	27.14	50.00	22.86	1000.0	9.000	N	ON	10.2
27.163500	---	27.12	50.00	22.88	1000.0	9.000	N	ON	10.2
27.204000	42.03	---	60.00	17.97	1000.0	9.000	N	ON	10.2

4.1.7 Radiated Emission

Result: **Pass**

Test Specification		
Test standard	:	FCC Part 15.209(a)
Basic standard	:	ANSI C63.10: 2020, Clause 11.12
Port	:	Enclosure
Frequency range	:	30MHz-10th Harmonic for intentional radiator
Limits	:	FCC Part 15.205(a) FCC Part 15.209(a)
Kind of test site	:	3m Semi-anechoic Chamber

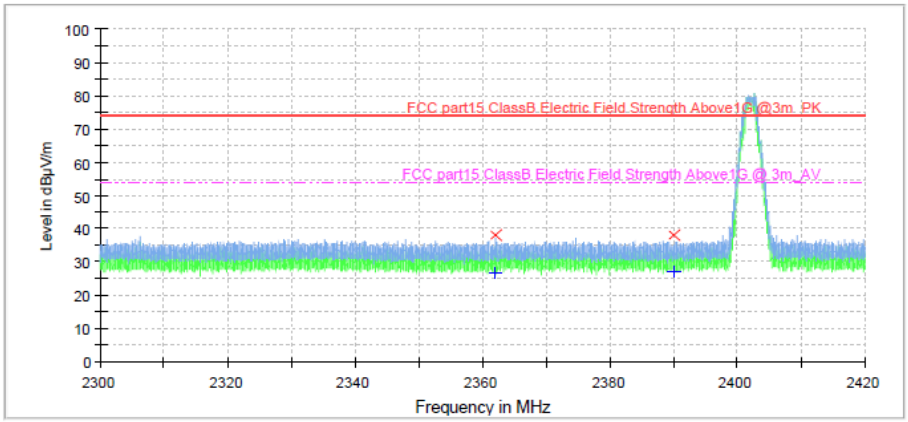
Test Setup

Date of testing	:	2025.01.02 - 2025.01.03
Input voltage	:	DC 3.3V
Operational mode	:	A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3
Temperature	:	21°C
Relative humidity	:	68%
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 5: Spectral Diagrams, Restricted frequency bands, Mode B.1

2310MHz-2390MHz, Horizontal



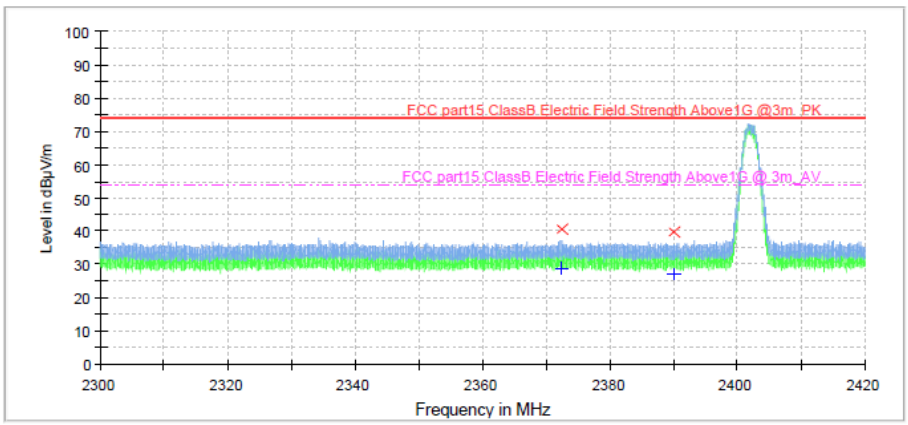
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2361.955000	38.1	1000.0	1000.000	150.0	H	0.0	-6.8	36.0	74.0
2390.000000	38.3	1000.0	1000.000	150.0	H	0.0	-6.6	35.8	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)
2361.955000	26.9	1000.0	1000.000	150.0	H	0.0	-6.8	27.1	54.0
2390.000000	27.0	1000.0	1000.000	150.0	H	0.0	-6.6	27.0	54.0

2310MHz-2390MHz, Vertical



Limit and Margin-PK

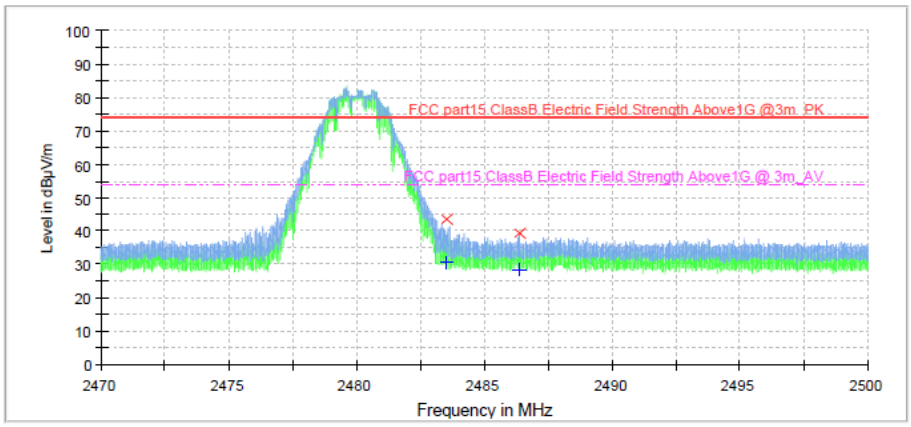
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2372.440000	40.7	1000.0	1000.000	150.0	V	0.0	-6.7	33.3	74.0
2390.000000	39.5	1000.0	1000.000	150.0	V	0.0	-6.6	34.5	74.0

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)
2372.440000	28.7	1000.0	1000.000	150.0	V	0.0	-6.7	25.3	54.0
2390.000000	27.3	1000.0	1000.000	150.0	V	0.0	-6.6	26.7	54.0

Figure 6: Spectral Diagrams, Restricted frequency bands, Mode B.3

2483.5MHz-2500MHz, Horizontal



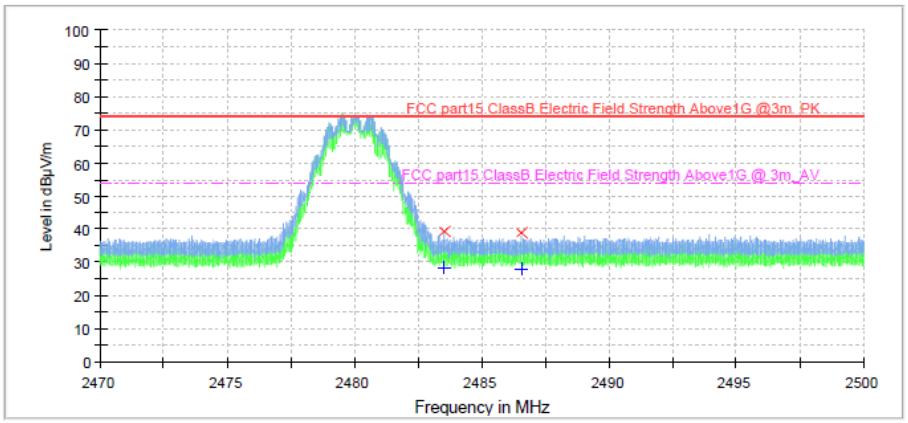
Limit and Margin-PK

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	43.7	1000.0	1000.000	150.0	H	0.0	-6.1	30.4	74.0
2486.375000	39.4	1000.0	1000.000	150.0	H	0.0	-6.1	34.6	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)
2483.500000	30.6	1000.0	1000.000	150.0	H	0.0	-6.1	23.4	54.0
2486.375000	28.3	1000.0	1000.000	150.0	H	0.0	-6.1	25.7	54.0

2483.5MHz-2500MHz, Vertical



Limit and Margin-PK

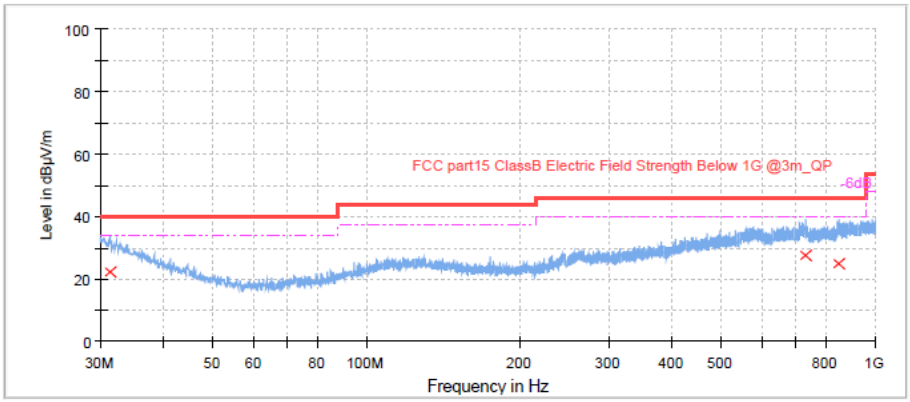
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2483.500000	39.2	1000.0	1000.000	150.0	V	0.0	-6.1	34.9	74.0
2486.535000	39.0	1000.0	1000.000	150.0	V	0.0	-6.1	35.1	74.0

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	28.5	1000.0	1000.000	150.0	V	0.0	-6.1	25.5	54.0
2486.535000	28.0	1000.0	1000.000	150.0	V	0.0	-6.1	26.0	54.0

Figure 7: Spectral Diagrams, Radiated Emission, Mode B.1

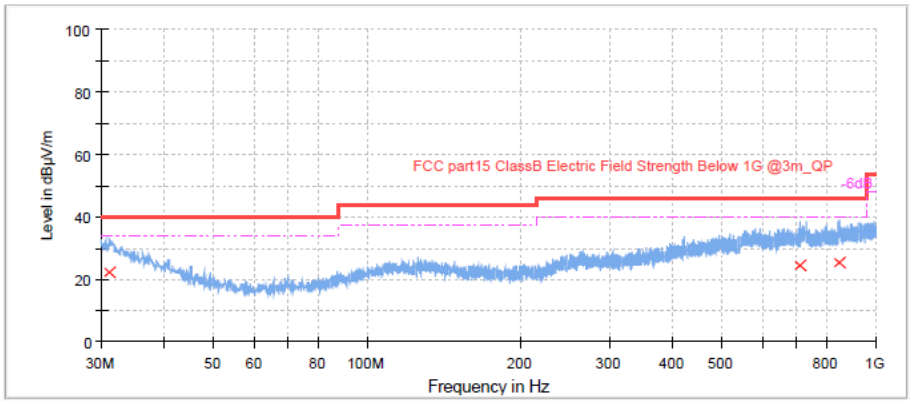
30MHz-1000MHz, Horizontal



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)
31.290000	22.2	1000.0	120.000	100.0	V	11.0	24.7	17.8	40.0
728.670000	27.6	1000.0	120.000	100.0	V	11.0	27.4	18.4	46.0
845.500000	25.0	1000.0	120.000	100.0	V	11.0	28.4	21.0	46.0

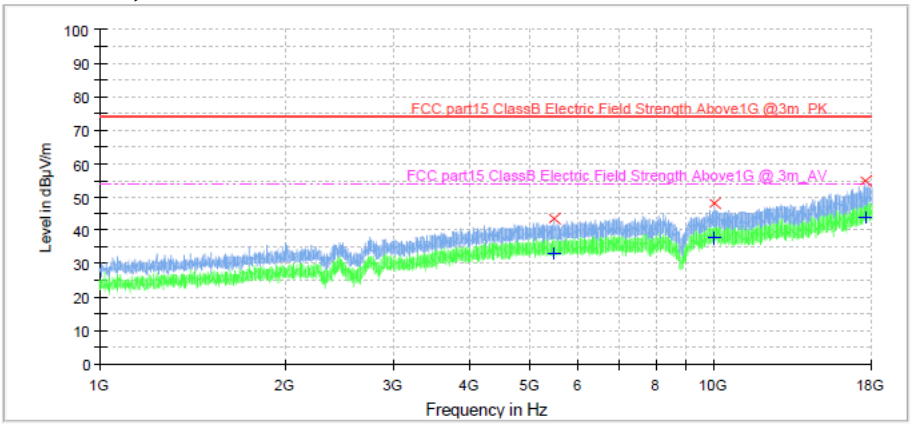
30MHz-1000MHz, Vertical



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)
31.190000	22.3	1000.0	120.000	100.0	V	11.0	24.8	17.7	40.0
710.400000	24.7	1000.0	120.000	100.0	V	11.0	27.0	21.3	46.0
846.090000	25.2	1000.0	120.000	100.0	V	11.0	28.4	20.9	46.0

1GHz-18GHz, Horizontal



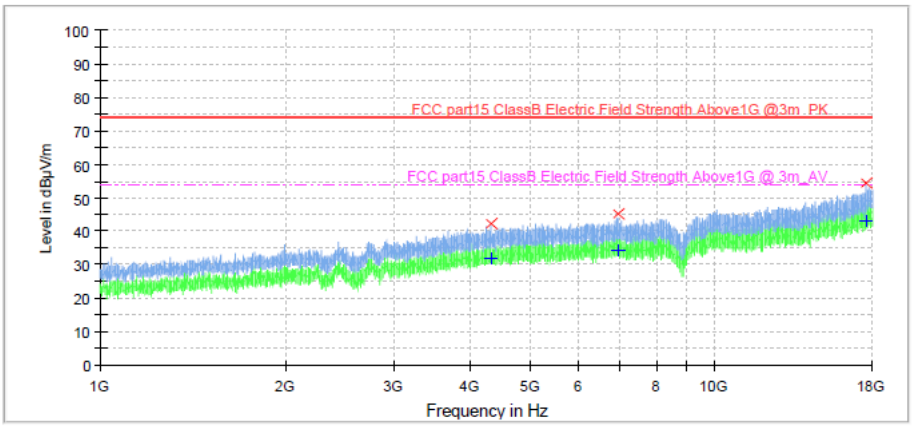
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
5478.435000	43.4	1000.0	1000.000	150.0	H	0.0	3.2	30.6	74.0
10000.435000	48.1	1000.0	1000.000	150.0	H	0.0	9.0	25.9	74.0
17589.875000	54.7	1000.0	1000.000	150.0	H	0.0	18.0	19.3	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)
5478.435000	32.9	1000.0	1000.000	150.0	H	0.0	3.2	21.1	54.0
10000.435000	37.5	1000.0	1000.000	150.0	H	0.0	9.0	16.6	54.0
17589.875000	43.9	1000.0	1000.000	150.0	H	0.0	18.0	10.1	54.0

1GHz-18GHz, Vertical



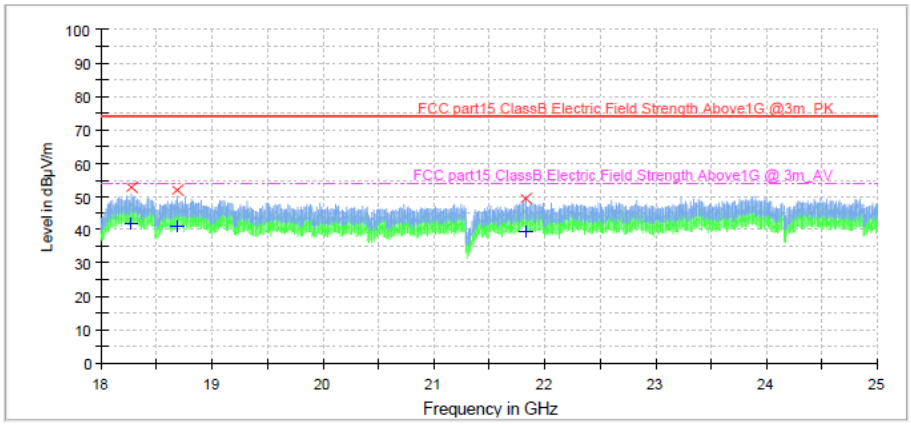
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4307.030000	42.4	1000.0	1000.000	150.0	V	0.0	0.5	31.6	74.0
6953.185000	45.1	1000.0	1000.000	150.0	V	0.0	5.2	28.9	74.0
17534.095000	54.5	1000.0	1000.000	150.0	V	0.0	17.9	19.5	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)
4307.030000	31.8	1000.0	1000.000	150.0	V	0.0	0.5	22.2	54.0
6953.185000	34.4	1000.0	1000.000	150.0	V	0.0	5.2	19.6	54.0
17534.095000	43.2	1000.0	1000.000	150.0	V	0.0	17.9	10.8	54.0

18GHz-25GHz, Horizontal



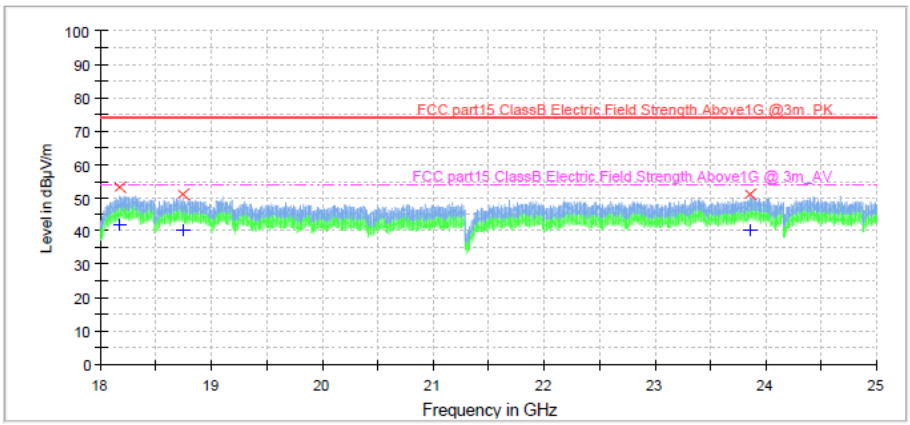
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18274.530000	52.9	1000.0	1000.000	150.0	H	0.0	-6.6	21.2	74.0
18683.810000	51.8	1000.0	1000.000	150.0	H	0.0	-7.6	22.2	74.0
21823.310000	49.5	1000.0	1000.000	150.0	H	0.0	-7.1	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)
18274.530000	41.9	1000.0	1000.000	150.0	H	0.0	-6.6	12.1	54.0
18683.810000	40.8	1000.0	1000.000	150.0	H	0.0	-7.6	13.2	54.0
21823.310000	39.3	1000.0	1000.000	150.0	H	0.0	-7.1	14.7	54.0

18GHz-25GHz, Vertical



Limit and Margin-PK

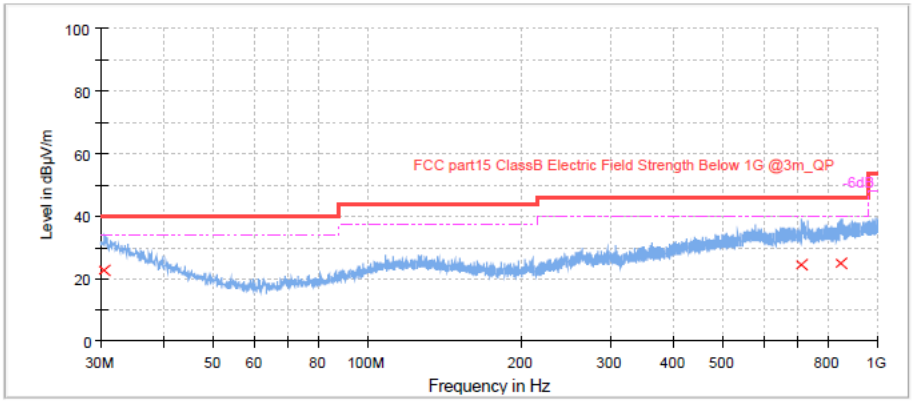
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18176.095000	53.2	1000.0	1000.000	150.0	V	0.0	-6.3	20.8	74.0
18742.220000	51.1	1000.0	1000.000	150.0	V	0.0	-7.7	22.9	74.0
23853.970000	51.1	1000.0	1000.000	150.0	V	0.0	-4.8	22.9	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)
18176.095000	42.0	1000.0	1000.000	150.0	V	0.0	-6.3	12.0	54.0
18742.220000	40.1	1000.0	1000.000	150.0	V	0.0	-7.7	13.9	54.0
23853.970000	40.0	1000.0	1000.000	150.0	V	0.0	-4.8	14.0	54.0

Figure 8: Spectral Diagrams, Radiated Emission, Mode B.2

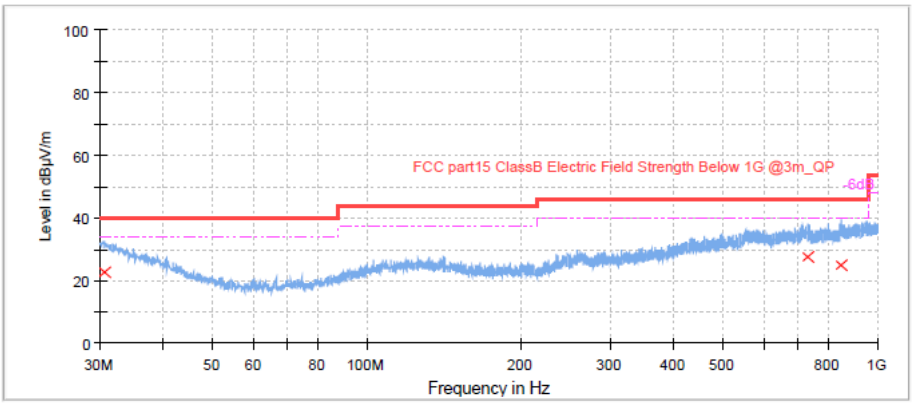
30MHz-1000MHz, Horizontal



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)
30.540000	22.6	1000.0	120.000	100.0	H	11.0	25.2	17.4	40.0
709.050000	24.6	1000.0	120.000	100.0	H	11.0	26.9	21.4	46.0
845.550000	25.0	1000.0	120.000	100.0	H	11.0	28.4	21.0	46.0

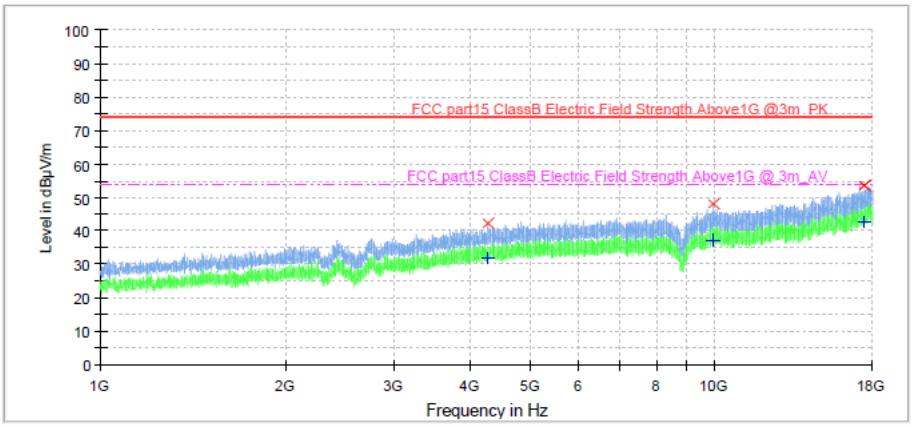
30MHz-1000MHz, Vertical



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)
30.590000	22.6	1000.0	120.000	100.0	V	11.0	25.1	17.4	40.0
728.670000	27.5	1000.0	120.000	100.0	V	11.0	27.4	18.5	46.0
845.500000	25.0	1000.0	120.000	100.0	V	11.0	28.4	21.0	46.0

1GHz-18GHz, Horizontal



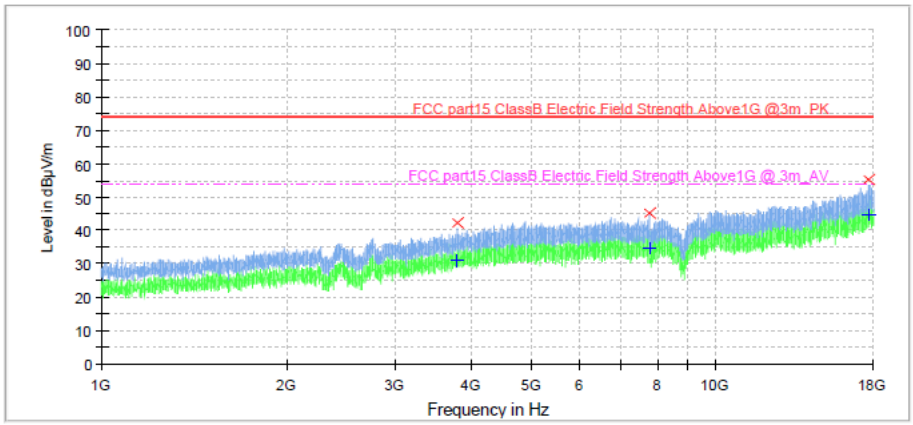
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4268.250000	42.4	1000.0	1000.000	150.0	H	0.0	0.4	31.6	74.0
9948.905000	48.0	1000.0	1000.000	150.0	H	0.0	8.8	26.0	74.0
17490.000000	53.8	1000.0	1000.000	150.0	H	0.0	17.7	20.2	74.0
17490.000000	53.8	1000.0	1000.000	150.0	H	0.0	17.7	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 - AVG (dB)	Limit - AVG (dBµV/m)
4268.250000	31.9	1000.0	1000.000	150.0	H	0.0	0.4	22.1	54.0
9948.905000	37.3	1000.0	1000.000	150.0	H	0.0	8.8	16.7	54.0
17490.000000	42.7	1000.0	1000.000	150.0	H	0.0	17.7	11.3	54.0
17490.000000	42.7	1000.0	1000.000	150.0	H	0.0	17.7	11.3	54.0

1GHz-18GHz, Vertical



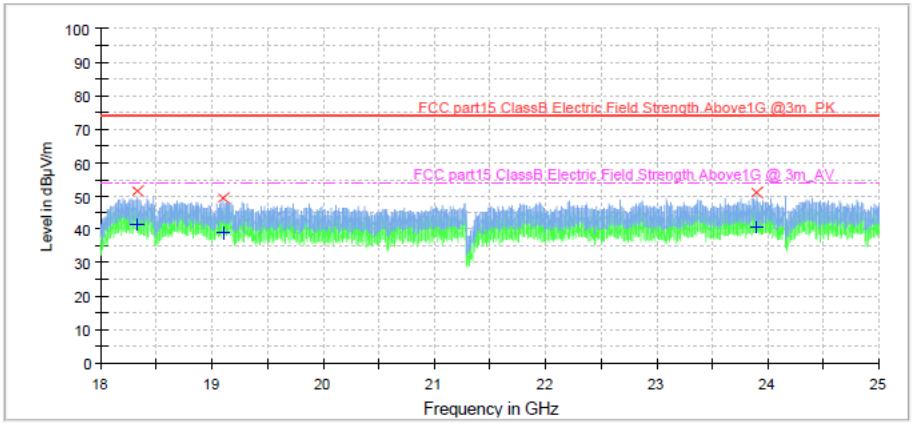
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
3799.155000	42.4	1000.0	1000.000	150.0	V	0.0	-0.7	31.6	74.0
7786.720000	45.2	1000.0	1000.000	150.0	V	0.0	6.0	28.8	74.0
17728.530000	55.2	1000.0	1000.000	150.0	V	0.0	18.5	18.8	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)
3799.155000	31.0	1000.0	1000.000	150.0	V	0.0	-0.7	23.0	54.0
7786.720000	34.7	1000.0	1000.000	150.0	V	0.0	6.0	19.3	54.0
17728.530000	44.7	1000.0	1000.000	150.0	V	0.0	18.5	9.3	54.0

18GHz-25GHz, Horizontal



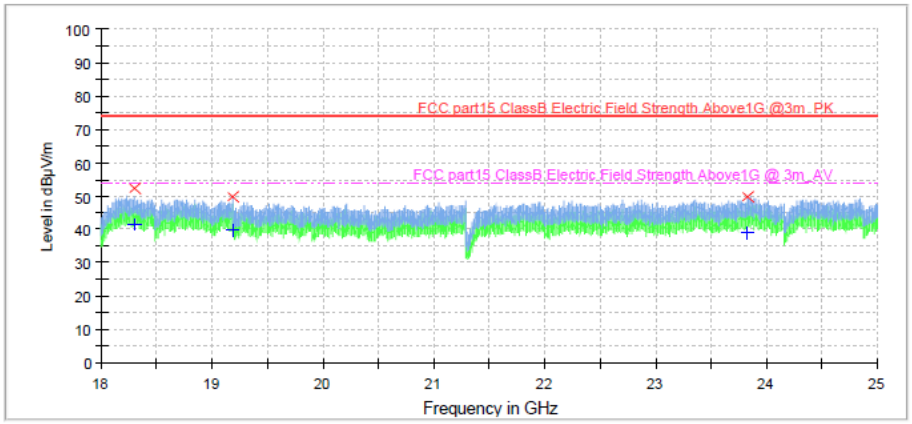
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18326.375000	51.7	1000.0	1000.000	150.0	H	0.0	-6.7	22.4	74.0
19093.970000	49.6	1000.0	1000.000	150.0	H	0.0	-8.4	24.5	74.0
23895.530000	51.2	1000.0	1000.000	150.0	H	0.0	-4.8	22.8	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)
18326.375000	41.2	1000.0	1000.000	150.0	H	0.0	-6.7	12.8	54.0
19093.970000	38.9	1000.0	1000.000	150.0	H	0.0	-8.4	15.1	54.0
23895.530000	40.4	1000.0	1000.000	150.0	H	0.0	-4.8	13.6	54.0

18GHz-25GHz, Vertical



Limit and Margin-PK

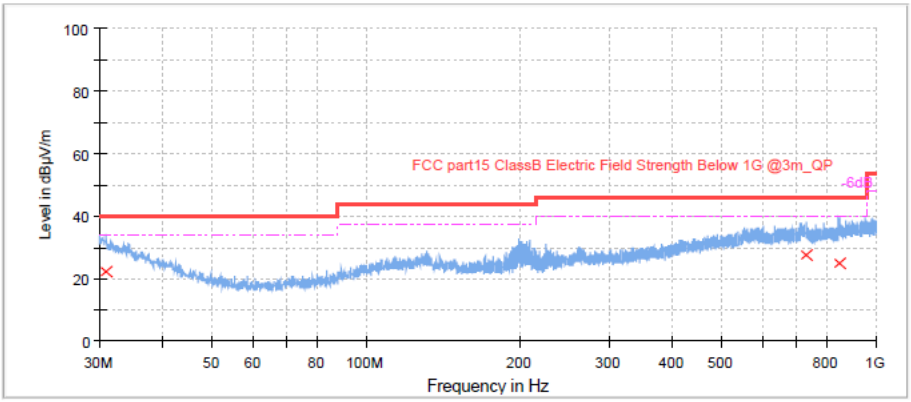
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18299.685000	52.3	1000.0	1000.000	150.0	V	0.0	-6.6	21.7	74.0
19188.470000	49.8	1000.0	1000.000	150.0	V	0.0	-8.6	24.3	74.0
23824.000000	50.0	1000.0	1000.000	150.0	V	0.0	-4.8	24.0	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)
18299.685000	41.4	1000.0	1000.000	150.0	V	0.0	-6.6	12.6	54.0
19188.470000	39.6	1000.0	1000.000	150.0	V	0.0	-8.6	14.4	54.0
23824.000000	39.0	1000.0	1000.000	150.0	V	0.0	-4.8	15.0	54.0

Figure 9: Spectral Diagrams, Radiated Emission, Mode B.3

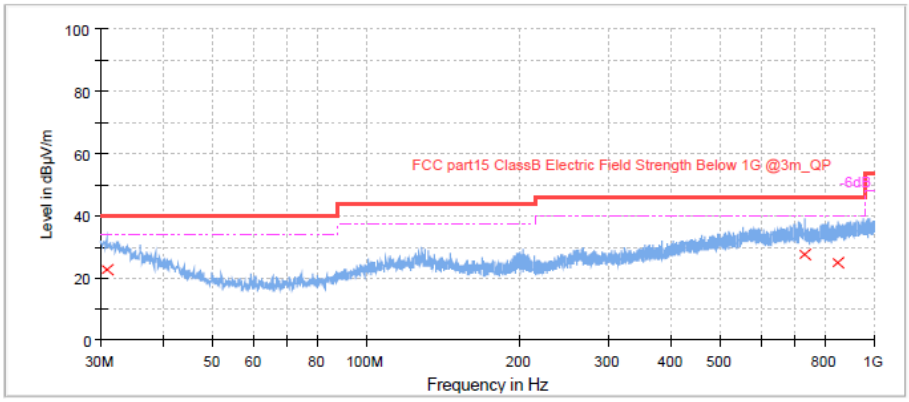
30MHz-1000MHz, Horizontal



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)
30.920000	22.4	1000.0	120.000	100.0	H	11.0	25.0	17.6	40.0
729.690000	27.5	1000.0	120.000	100.0	H	11.0	27.4	18.5	46.0
845.610000	25.0	1000.0	120.000	100.0	H	11.0	28.4	21.0	46.0

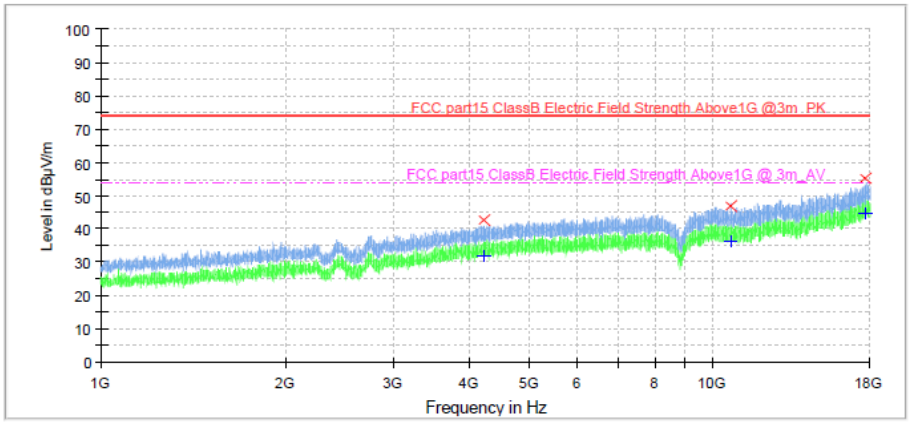
30MHz-1000MHz, Vertical



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)
30.810000	22.5	1000.0	120.000	100.0	V	11.0	25.0	17.5	40.0
728.720000	27.5	1000.0	120.000	100.0	V	11.0	27.4	18.5	46.0
849.870000	25.1	1000.0	120.000	100.0	V	11.0	28.5	20.9	46.0

1GHz-18GHz, Horizontal



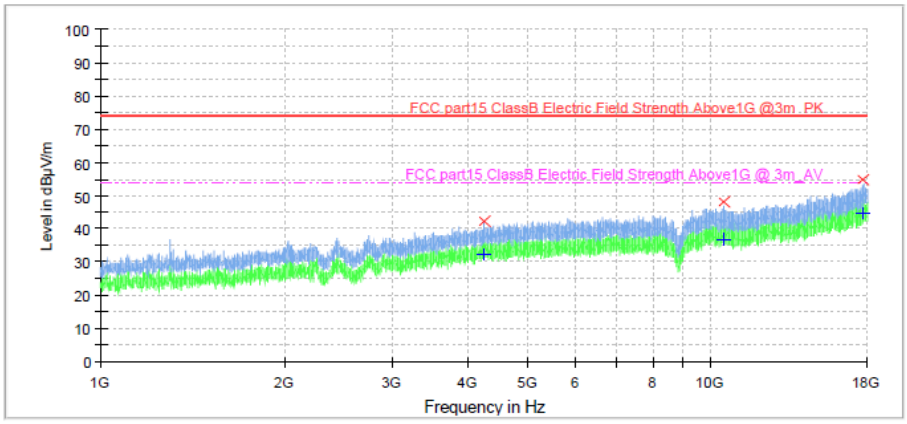
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4225.750000	42.9	1000.0	1000.000	150.0	H	0.0	0.3	31.1	74.0
10651.220000	47.0	1000.0	1000.000	150.0	H	0.0	8.7	27.0	74.0
17719.500000	55.2	1000.0	1000.000	150.0	H	0.0	18.4	18.8	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)
4225.750000	31.9	1000.0	1000.000	150.0	H	0.0	0.3	22.1	54.0
10651.220000	36.4	1000.0	1000.000	150.0	H	0.0	8.7	17.6	54.0
17719.500000	44.6	1000.0	1000.000	150.0	H	0.0	18.4	9.4	54.0

1GHz-18GHz, Vertical



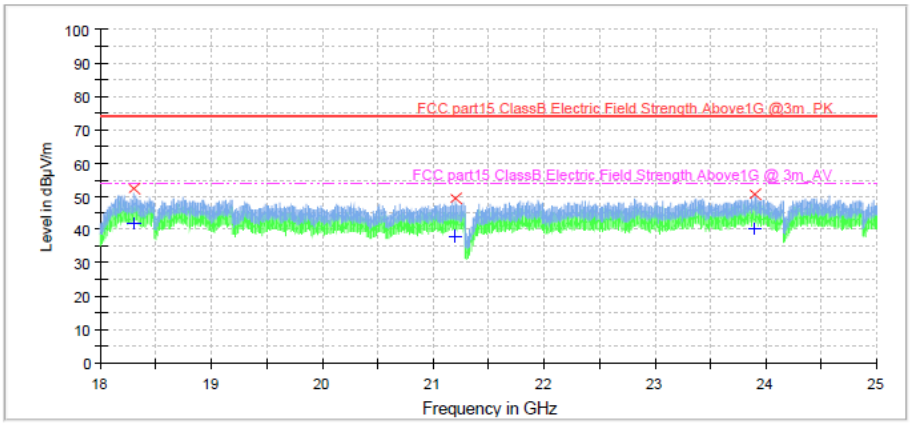
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
4244.345000	42.4	1000.0	1000.000	150.0	V	0.0	0.4	31.6	74.0
10488.655000	48.1	1000.0	1000.000	150.0	V	0.0	8.5	25.9	74.0
17715.250000	55.0	1000.0	1000.000	150.0	V	0.0	18.4	19.0	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)
4244.345000	32.0	1000.0	1000.000	150.0	V	0.0	0.4	22.0	54.0
10488.655000	36.8	1000.0	1000.000	150.0	V	0.0	8.5	17.2	54.0
17715.250000	44.6	1000.0	1000.000	150.0	V	0.0	18.4	9.4	54.0

18GHz-25GHz, Horizontal



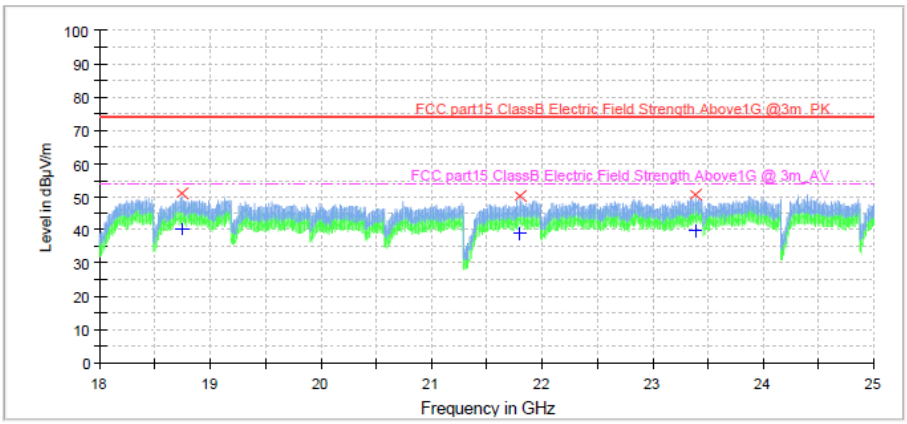
Limit and Margin-PK

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
18298.810000	52.3	1000.0	1000.000	150.0	H	0.0	-6.6	21.7	74.0
21201.625000	49.3	1000.0	1000.000	150.0	H	0.0	-7.9	24.7	74.0
23899.250000	50.7	1000.0	1000.000	150.0	H	0.0	-4.8	23.3	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)
18298.810000	41.7	1000.0	1000.000	150.0	H	0.0	-6.6	12.3	54.0
21201.625000	38.2	1000.0	1000.000	150.0	H	0.0	-7.9	15.8	54.0
23899.250000	40.3	1000.0	1000.000	150.0	H	0.0	-4.8	13.7	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)
18737.625000	50.9	1000.0	1000.000	150.0	V	0.0	-7.7	23.1	74.0
21798.810000	50.0	1000.0	1000.000	150.0	V	0.0	-7.1	24.0	74.0
23382.560000	50.5	1000.0	1000.000	150.0	V	0.0	-5.0	23.5	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)
18737.625000	40.1	1000.0	1000.000	150.0	V	0.0	-7.7	13.9	54.0
21798.810000	39.0	1000.0	1000.000	150.0	V	0.0	-7.1	15.0	54.0
23382.560000	39.6	1000.0	1000.000	150.0	V	0.0	-5.0	14.4	54.0

Remark: All the modes had been tested, but only the worst data was recorded in the report.

5. List of Tables

6. List of Figures

--The END --