

Prüfbericht-Nr.: Test report no.:	CN25PPX2 001	Auftrags-Nr.: Order no.:	170426383	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025.07.30	
Auftraggeber: Client:	Dee Van Enterprise Co., Ltd. No. 5, Pao-Kao Road, Hsin Tien, Taipei 231 Taiwan			
Prüfgegenstand: Test item:	LED fixed luminaires (NightWatcherProLED)			
Bezeichnung / Typ-Nr.: Identification / Type no.:	NW990-US, XCT-2420-YY ("X" and "Y" can be 0~9 or A~Z or a~z to denote the client code and product color for marketing purposes only) Trademark: DEEVAN , DVE , IQ America. Inc. (DEEVAN, DVE, IQ America, Inc.)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR Title 47, Part 15, Subpart C, Section 15.247 RSS-247 Issue 4 August 2025 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: Date of sample receipt:	2025.08.06	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A004061159-002/003			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-01-09	Ausstellungsdatum: Issue date:	2026-01-09	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2A3OYNW990 IC: 5674A-NW990 HVIN: NW990			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested				
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. 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.				

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Anmerkungen
Remarks

1	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. <i>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.</i> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
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3	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. <i>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.</i>
4	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. <i>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.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 AC CONDUCTED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of Test Set-up

Appendix B: Test Results of Wi-Fi 802.11 b/g/n

2 Test Sites

2.1 Test Facilities

Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

FCC Registration No.: CN1333

ISED wireless device testing laboratory: CN0136

TÜV Rheinland (Guangdong) Co., Ltd. subcontract all test to Shenzhen LGT Test Service Co., Ltd.
And all tests at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E225010004 9	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600- NMNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.5.0.16_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2025.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600- NMNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B- NMSM- 1M9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241- 05000KMS KMS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT- BS-D	SK20210930 08	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.5.0.16_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16

Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100-RFCB	MW220324L G-33	2025.03.06	2026.03.05
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC8305 3	2025.03.05	2026.03.04
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05
Testing Software	MTS8310_V2.0.0.0_MW				

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 3.2 \%$
RF Output Power, Conducted	$\pm 0.71\text{dB}$
Power Spectral Density, Conducted	$\pm 1.57 \text{ dB}$
Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
Conducted emission	$\pm 2.80\text{dB}$
All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
All Emissions, Radiated (30MHz-1GHz)	$\pm 4.40\text{dB}$
All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 2\%$
Duty Cycle	$\pm 2.3\%$

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2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen LGT Test Service Co., Ltd.. Test facility located at Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is LED fixed luminaires for indoor and outdoor use, constructed with one motion sensor, camera module and 2.4GHz Wi-Fi control module.

Model list:

NW990-US, XCT-2420-YY ("X" and "Y" can be 0~9 or A~Z or a~z to denote the client code and product color for marketing purposes only)

The model NW990-US has the same construction as XCT-2420-YY, except that the model's name and trademark.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	LED fixed luminaires (NightWatcherProLED)
Type Designation:	NW990-US
Name and address of factory:	Factory 1: Dee Van Electronics (Longchuan) Co., Ltd. Address: Meichun Industrial District, Longchuan County, Heyuan, 517300 Guangdong, P.R. China Factory 2: DEE VAN ENTERPRISE CO., LTD. NO.5 PAO KAO RD., XINDIAN DIST, NEW TAIPEI CITY 23144, TAIWAN Factory 3: Dee Van Electronics Vietnam Company Limited No.01, Lot CN-05, Cam Thinh Industrial Cluster, Cua Ong Ward, 01214 Quang Ninh Vietnam
FCC ID:	2A3OYNW990
IC:	5674A-NW990
HVIN:	NW990
Operating Voltage:	AC 100-240V 50/60Hz 0.5A
Testing Voltage	AC 120V/60Hz
Technical Specification of Wi-Fi 802.11 b/g/n	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
MIMO and SISO mode:	SISO for 802.11b/g/n
Antenna Type:	PCB Antenna
Antenna Gain:	Max gain 2.0dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi 802.11 b/g/n wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Wi-Fi 802.11 b/g/n connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|--------------------|-------------------------|
| - Application Form | - User Manual |
| - Block Diagram | - Operation Description |

4 Test Set-up and Operation Modes

4.1 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.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024.

According to clause 3.1, all tests were performed in this report.

Table 3: Test environments

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	24.6°C	DC 5.0V for conducted signal test AC 120V for Radiated test and AC power-line conducted emissions	Ambient

Table 4: Test channel and frequency

Mode	Test Channels
802.11b/g/n(HT20)	L: CH01, 2412MHz; M: CH06, 2437MHz; H: CH11, 2462MHz
802.11b/g/n(HT40)	L: CH03, 2422MHz; M: CH06, 2437MHz; H: CH09, 2452MHz

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T470s	N/A	N/A
Debug board	Waveshare	FT232	N/A	DC 5V

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

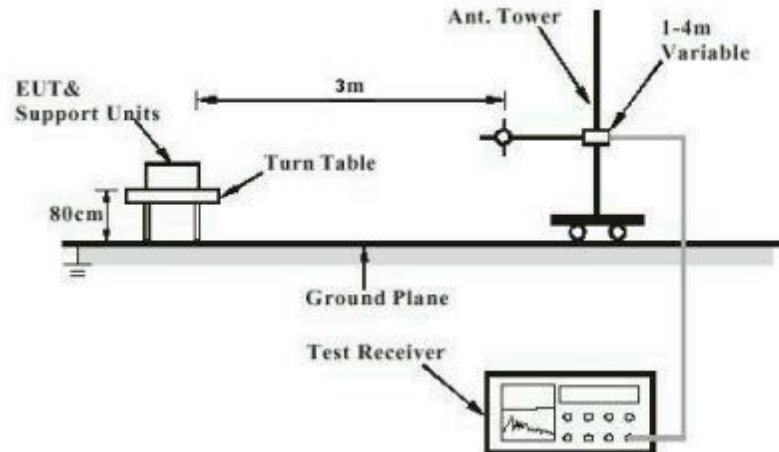


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

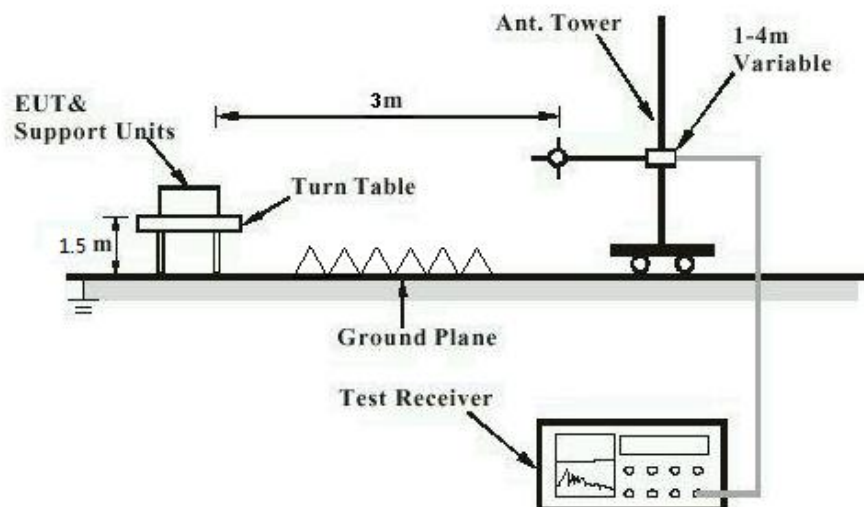
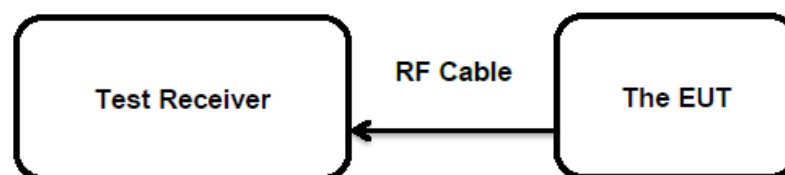


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has integral antennas with a unique connector, which is designed with permanent attachment and no consideration of replacement. The maximum antenna gain is 2.0 dBi.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(b)(3) RSS-247 Clause 6.3.2
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Limits	:	1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-09-22
Input voltage	:	DC 5.0V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Limits	:	< 8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-09-22
Input voltage	:	DC 5.0V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Limits	:	> 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-09-22
Input voltage	:	DC 5.0V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-09-22
Input voltage	:	DC 5.0V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Limits	: If the tested output power based on peak test: At least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the tested output power based on RMS averaging over a time interval: At least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-09-22
Input voltage	: DC 5.0V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.6 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 6.6
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2025-08-18 to 2025-10-13
Input voltage	:	120V AC
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst-case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.8 AC Conducted Emission

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.207(a) RSS-GEN clause 8.8
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+COR. 1:2023+C63.10A:2024
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-08-13
Input voltage	:	120V AC
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B .

All modes tested, only the worst-case reported.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard

: CFR47 FCC Part 2: Section 2.1091
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 D01 v06
RSS-102 Issue 6 December 2023

➤ **FCC requirements**

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

Power Density: $S_{(mW/cm^2)} = PG/4\pi R^2$ or $EIRP/4\pi R^2$

Where:

S = power density (mW/cm²)

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

The nominal maximum conducted output power specified:

Wi-Fi 802.11 b/g/n: 16.29 dBm

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (2.0 dBi for Wi-Fi 802.11 b/g/n), the RF power density can be calculated as below:

For Wi-Fi 802.11 b/g/n: $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.013 \text{ mW/cm}^2$

Limits for Maximum Permissible Exposure (MPE) according to FCC Part 1.1310:

1.0 mW/cm²

- **IC requirements:** The EUT shall comply with the requirement of RSS-102 section 6.6.

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

- RF exposure evaluation exempted power for Wi-Fi 802.11 b/g/n: 2.684 W

The nominal maximum conducted output power specified:

Wi-Fi 802.11 b/g/n: 16.29 dBm

Antenna Gain: 2.0 dBi for Wi-Fi 802.11 b/g/n

The Max. e.i.r.p. for Wi-Fi 802.11 b/g/n: 18.29 dBm = 0.067 W

So e.i.r.p. of Wi-Fi 802.11 b/g/n are less than the RF exposure evaluation exempted power.

“RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons.”

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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PHOTOGRAPH 2: SET-UP FOR RADIATED SPURIOUS EMISSION, 1GHz - 18GHz.....	2
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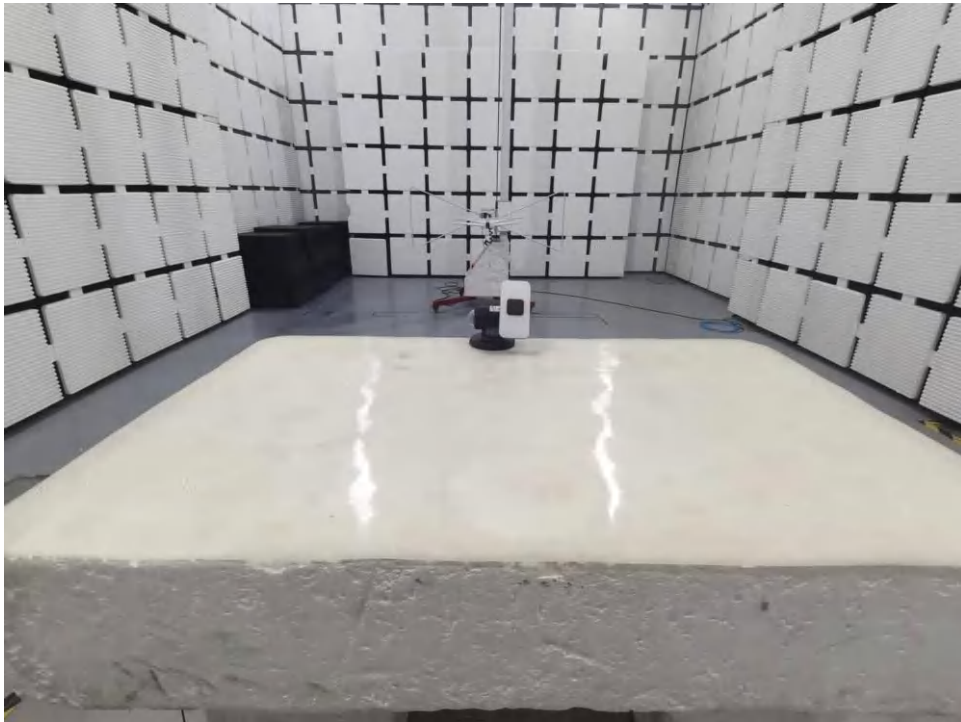
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Photograph 1: Set-up for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 2: Set-up for Radiated Spurious Emission, 1GHz - 18GHz



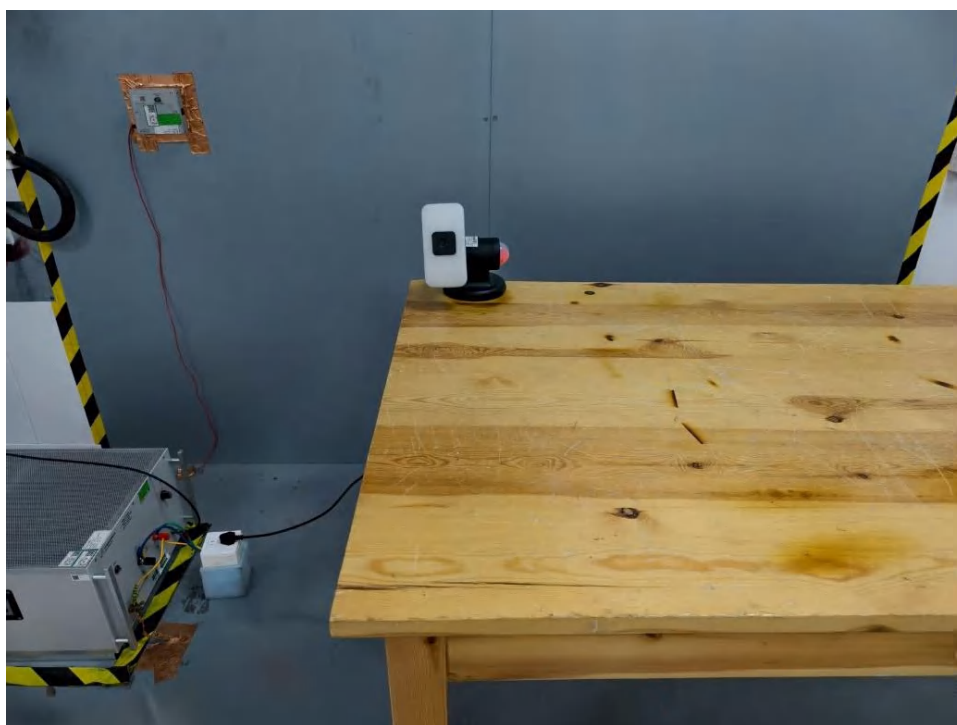
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Photograph 3: Set-up for Conducted Emission on AC Mains



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Appendix B: Test Results of 2.4GHz Wi-Fi

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Duty Cycle

Test Graphs
Duty Cycle NVNT b 2412MHz



Duty Cycle NVNT b 2437MHz



Duty Cycle NVNT b 2462MHz



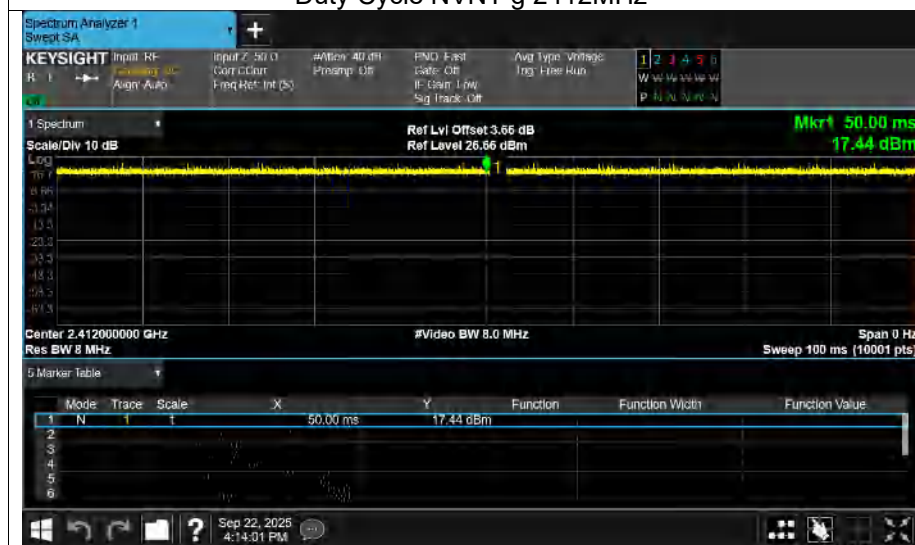
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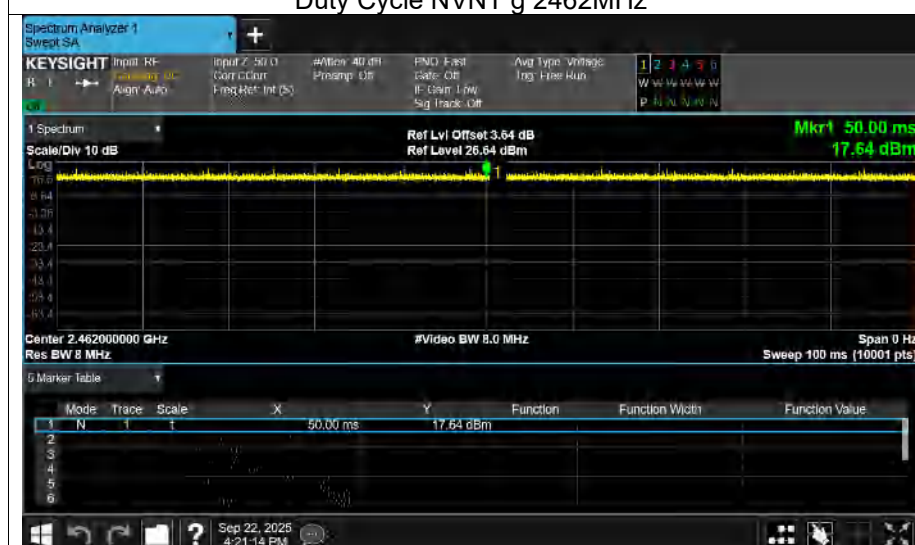
Duty Cycle NVNT g 2412MHz



Duty Cycle NVNT g 2437MHz



Duty Cycle NVNT g 2462MHz



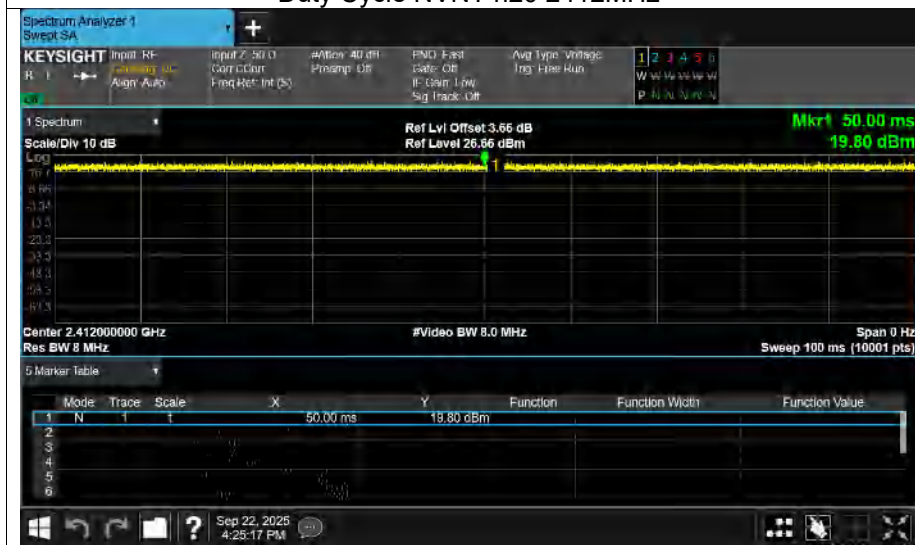
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Duty Cycle NVNT n20 2412MHz



Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz



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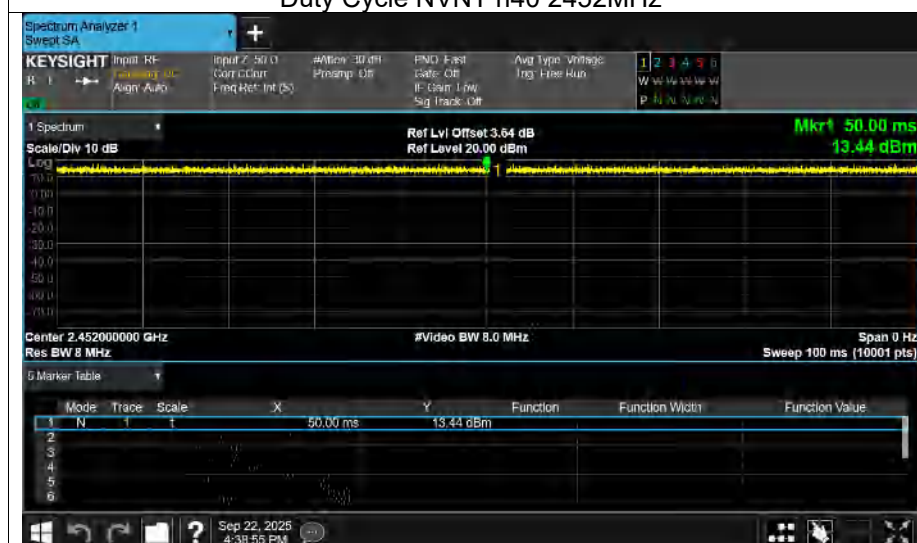
Duty Cycle NVNT n40 2422MHz



Duty Cycle NVNT n40 2437MHz



Duty Cycle NVNT n40 2452MHz



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Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	16.29	30	Pass
NVNT	b	2437	15.86	30	Pass
NVNT	b	2462	14.57	30	Pass
NVNT	g	2412	15.41	30	Pass
NVNT	g	2437	14.27	30	Pass
NVNT	g	2462	13.71	30	Pass
NVNT	n20	2412	15.22	30	Pass
NVNT	n20	2437	14.27	30	Pass
NVNT	n20	2462	13.30	30	Pass
NVNT	n40	2422	14.06	30	Pass
NVNT	n40	2437	13.46	30	Pass
NVNT	n40	2452	12.63	30	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) $e.i.r.p. = P_{(Peak\ power)} + G$, which is below the 4 W
- 3) The maximum Duty cycle is 100% and the duty cycle factor has been considered in results listed above.

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-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.052	0.5	Pass
NVNT	b	2437	9.034	0.5	Pass
NVNT	b	2462	9.03	0.5	Pass
NVNT	g	2412	16.493	0.5	Pass
NVNT	g	2437	16.502	0.5	Pass
NVNT	g	2462	16.538	0.5	Pass
NVNT	n20	2412	17.663	0.5	Pass
NVNT	n20	2437	17.707	0.5	Pass
NVNT	n20	2462	17.729	0.5	Pass
NVNT	n40	2422	35.393	0.5	Pass
NVNT	n40	2437	35.835	0.5	Pass
NVNT	n40	2452	36.201	0.5	Pass

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-6dB Bandwidth NVNT b 2412MHz



-6dB Bandwidth NVNT b 2437MHz



-6dB Bandwidth NVNT b 2462MHz



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-6dB Bandwidth NVNT g 2412MHz



-6dB Bandwidth NVNT g 2437MHz



-6dB Bandwidth NVNT g 2462MHz



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-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz



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-6dB Bandwidth NVNT n40 2422MHz



-6dB Bandwidth NVNT n40 2437MHz



-6dB Bandwidth NVNT n40 2452MHz



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Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	b	2412	13.213
NVNT	b	2437	13.258
NVNT	b	2462	13.278
NVNT	g	2412	16.489
NVNT	g	2437	16.528
NVNT	g	2462	16.554
NVNT	n20	2412	17.684
NVNT	n20	2437	17.678
NVNT	n20	2462	17.695
NVNT	n40	2422	36.147
NVNT	n40	2437	36.170
NVNT	n40	2452	36.162

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Test Graphs OBW NVNT b 2412MHz



OBW NVNT b 2437MHz



OBW NVNT b 2462MHz



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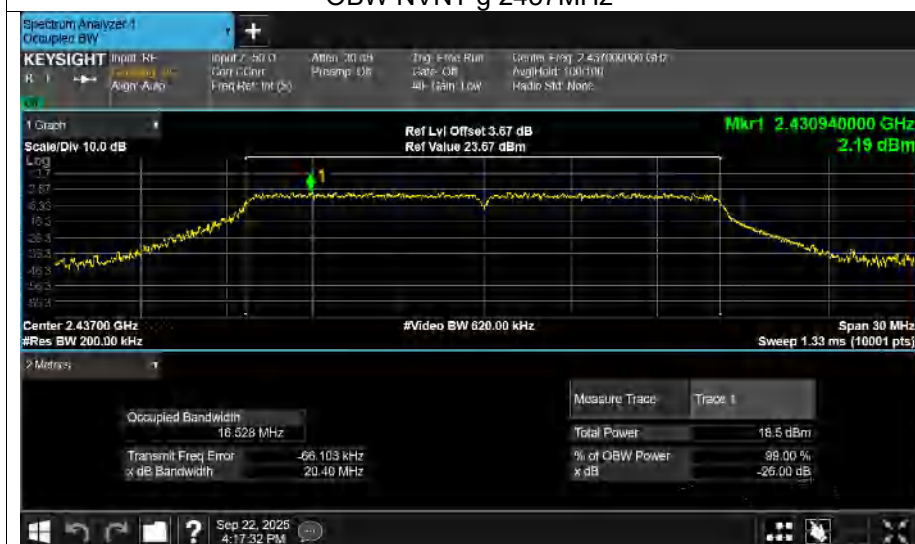
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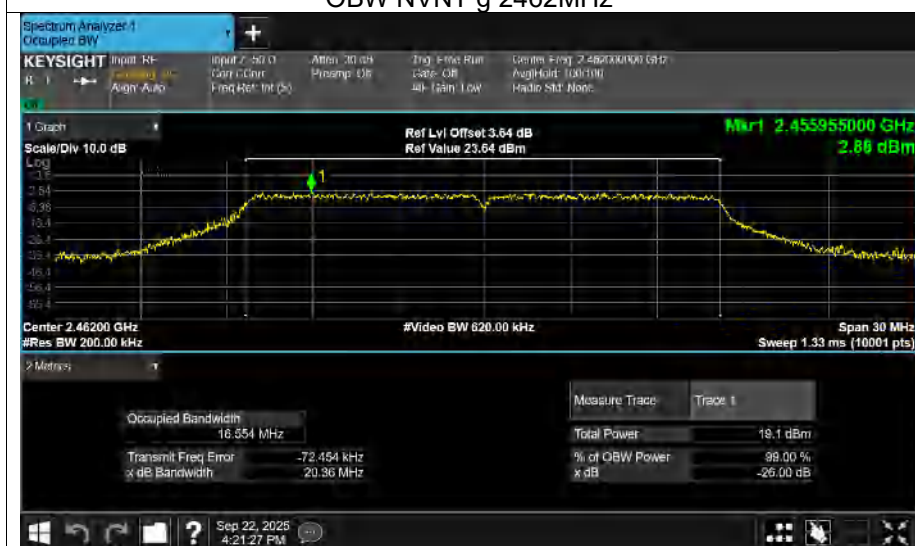
OBW NVNT g 2412MHz



OBW NVNT g 2437MHz



OBW NVNT g 2462MHz



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OBW NVNT n20 2412MHz



OBW NVNT n20 2437MHz



OBW NVNT n20 2462MHz



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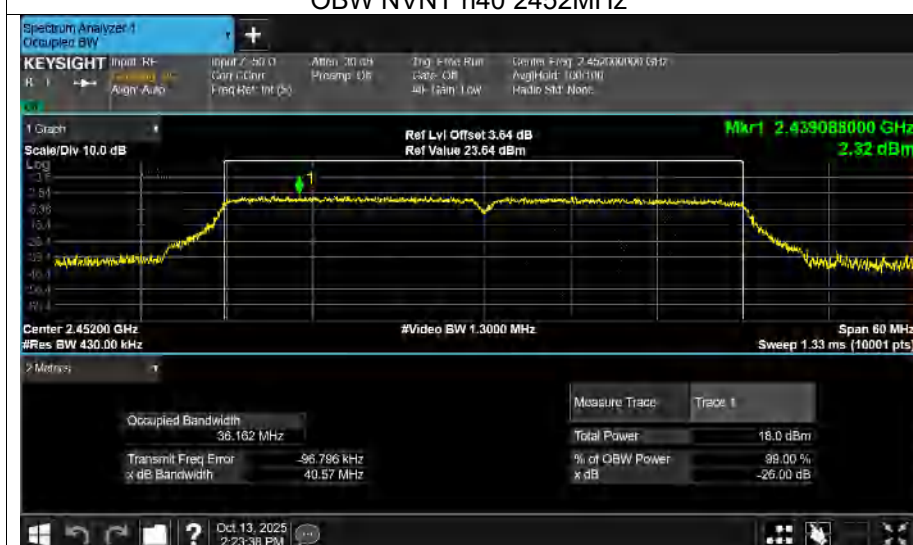
OBW NVNT n40 2422MHz



OBW NVNT n40 2437MHz



OBW NVNT n40 2452MHz



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Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-12.84	8	Pass
NVNT	b	2437	-13.61	8	Pass
NVNT	b	2462	-14.88	8	Pass
NVNT	g	2412	-14.23	8	Pass
NVNT	g	2437	-15.22	8	Pass
NVNT	g	2462	-15.05	8	Pass
NVNT	n20	2412	-12.33	8	Pass
NVNT	n20	2437	-13.13	8	Pass
NVNT	n20	2462	-14.22	8	Pass
NVNT	n40	2422	-14.33	8	Pass
NVNT	n40	2437	-15.4	8	Pass
NVNT	n40	2452	-15.75	8	Pass

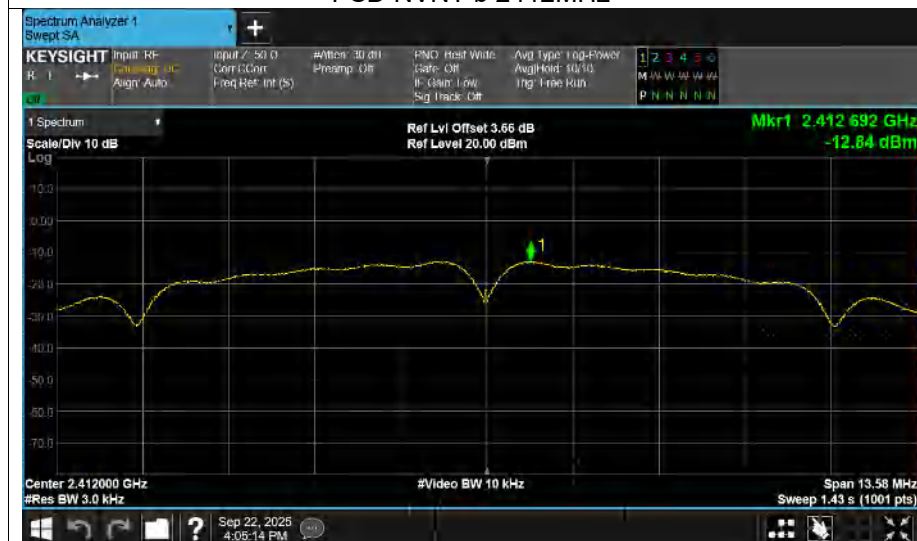
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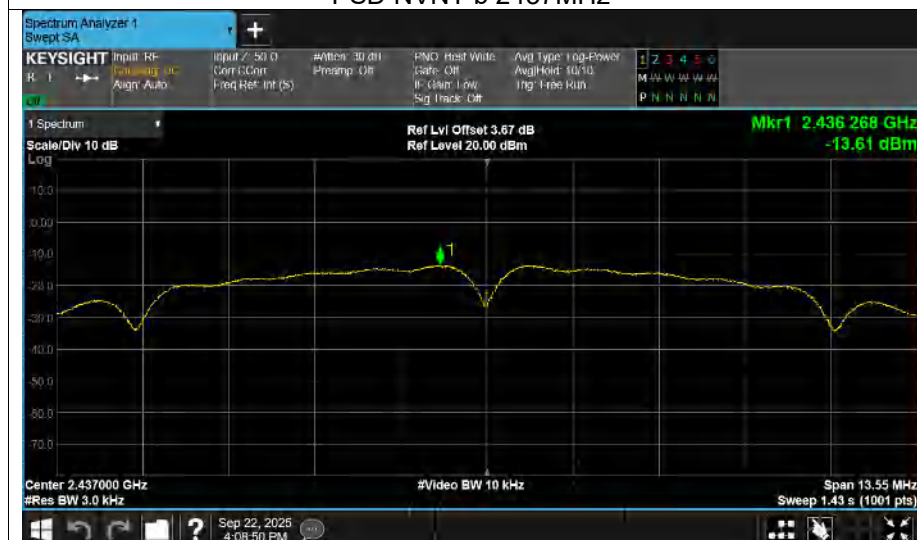
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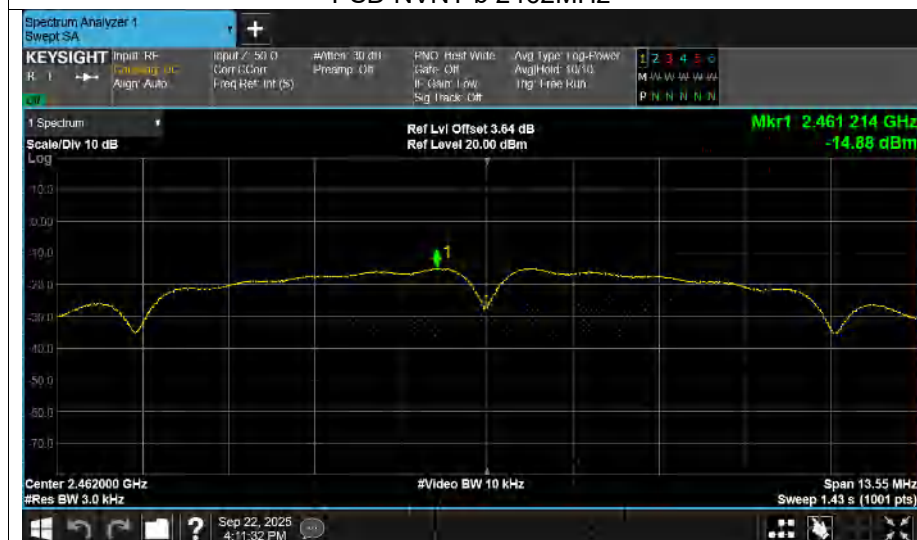
Test Graphs PSD NVNT b 2412MHz



PSD NVNT b 2437MHz



PSD NVNT b 2462MHz

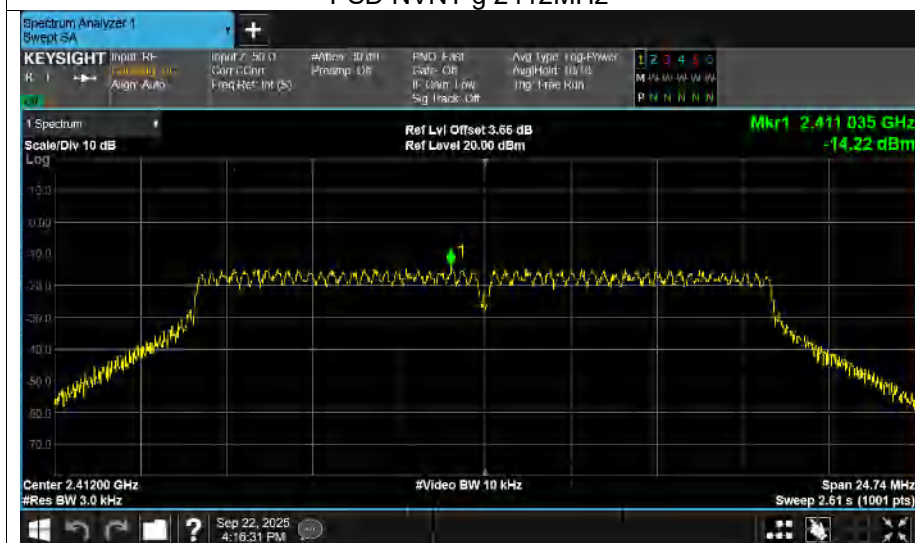


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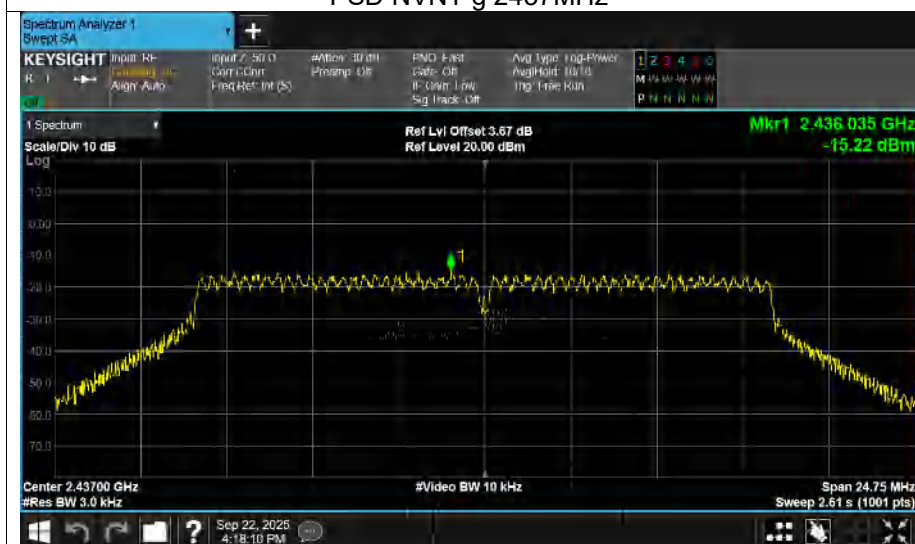
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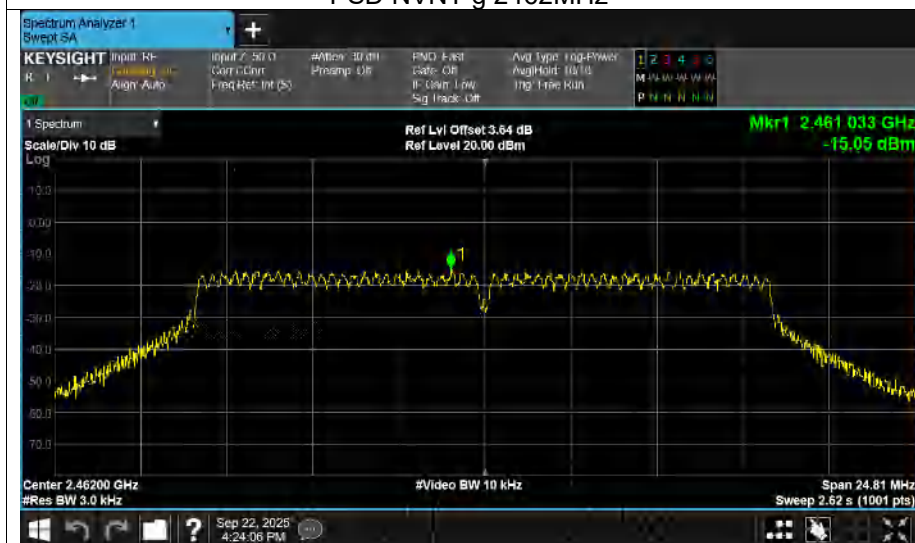
PSD NVNT g 2412MHz



PSD NVNT g 2437MHz



PSD NVNT g 2462MHz

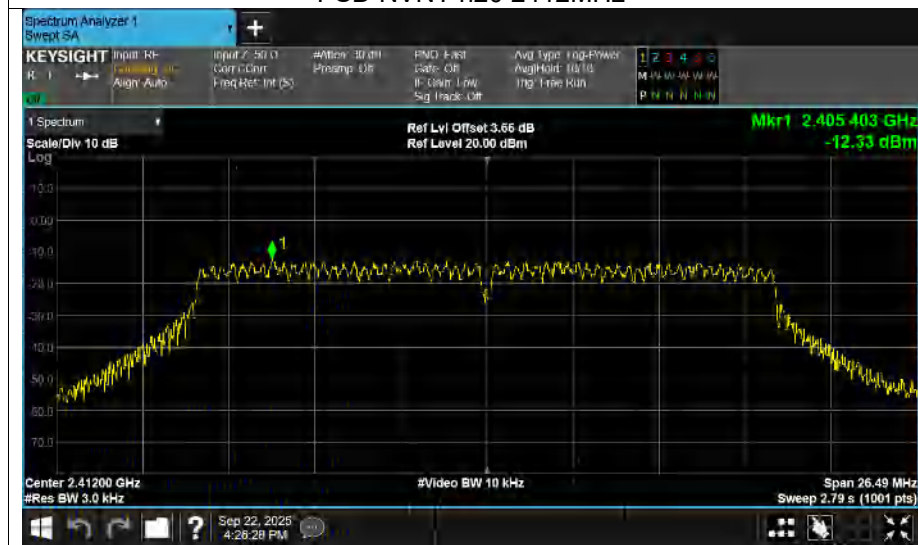


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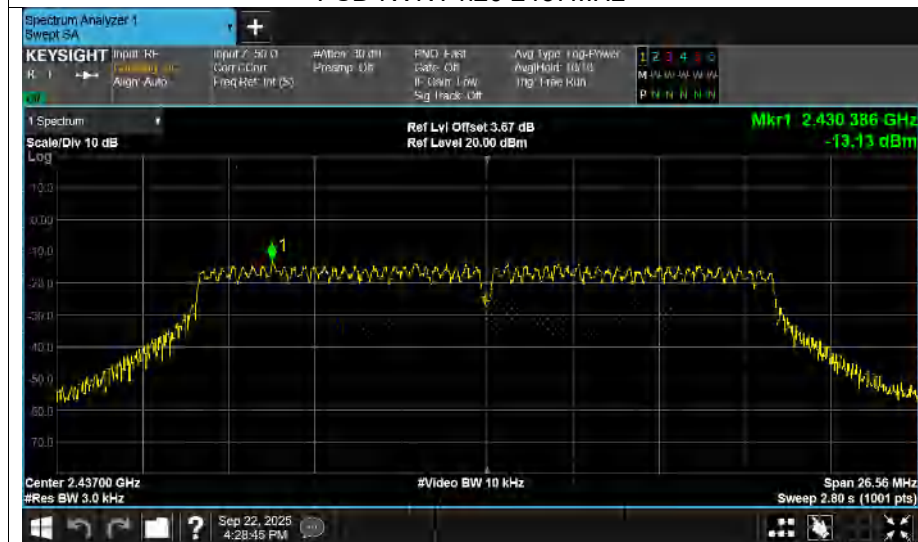
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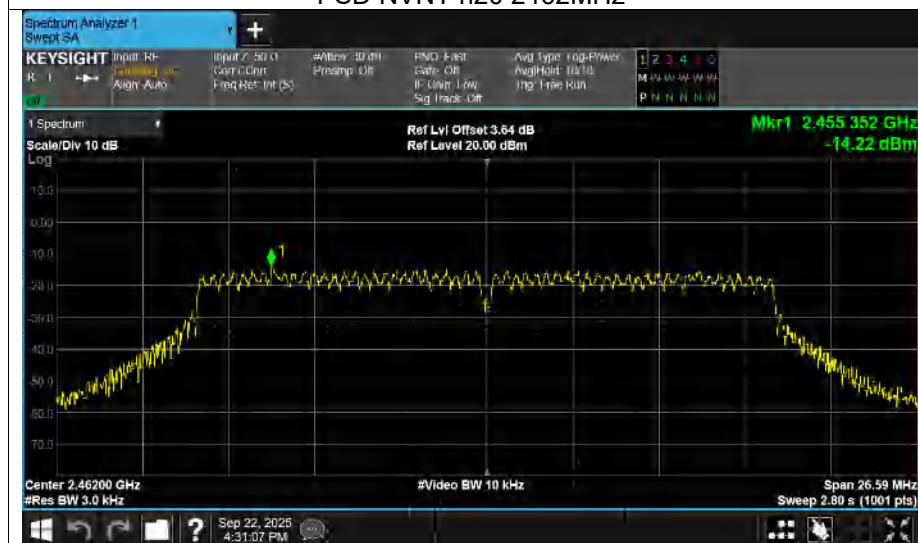
PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz



PSD NVNT n20 2462MHz



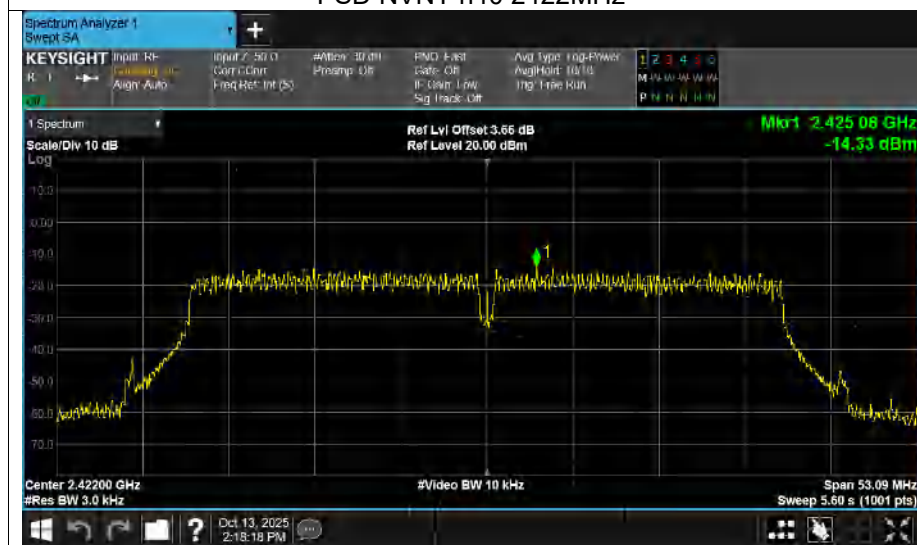
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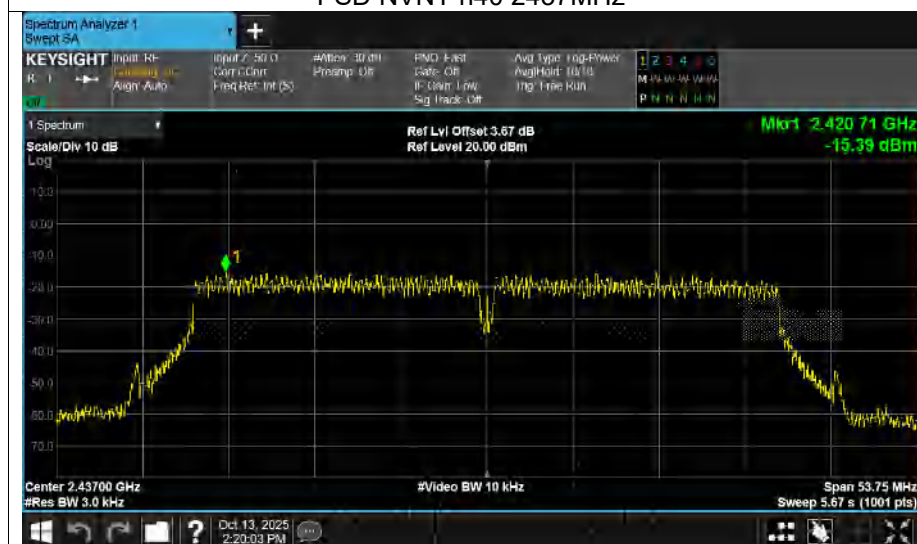
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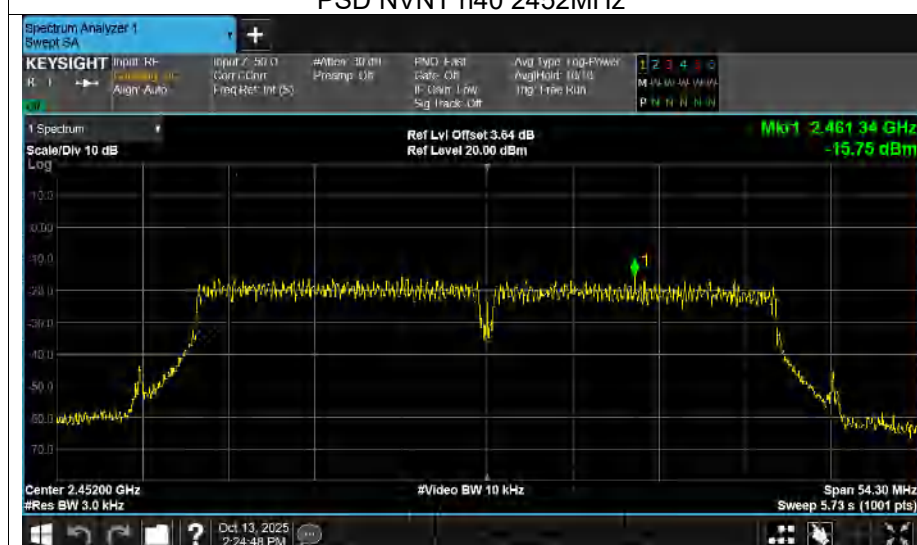
PSD NVNT n40 2422MHz



PSD NVNT n40 2437MHz



PSD NVNT n40 2452MHz



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Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-52.53	-20	Pass
NVNT	b	2462	-60.46	-20	Pass
NVNT	g	2412	-36.87	-20	Pass
NVNT	g	2462	-42.83	-20	Pass
NVNT	n20	2412	-34.92	-20	Pass
NVNT	n20	2462	-40.37	-20	Pass
NVNT	n40	2422	-34.67	-20	Pass
NVNT	n40	2452	-43	-20	Pass

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Band Edge NVNT b 2412MHz Ref



Band Edge NVNT b 2412MHz Emission



Band Edge NVNT b 2462MHz Ref



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Band Edge NVNT b 2462MHz Emission



Band Edge NVNT g 2412MHz Ref



Band Edge NVNT g 2412MHz Emission



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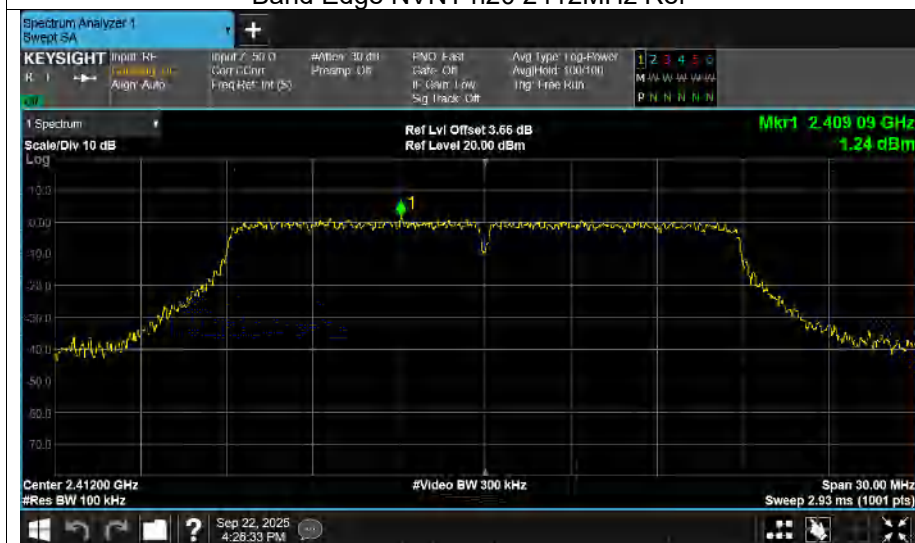
Band Edge NVNT g 2462MHz Ref



Band Edge NVNT g 2462MHz Emission



Band Edge NVNT n20 2412MHz Ref



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Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ref



Band Edge NVNT n20 2462MHz Emission



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Band Edge NVNT n40 2422MHz Ref



Band Edge NVNT n40 2422MHz Emission



Band Edge NVNT n40 2452MHz Ref



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Band Edge NVNT n40 2452MHz Emission



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Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-42.08	-20	Pass
NVNT	b	2437	-43.93	-20	Pass
NVNT	b	2462	-45.31	-20	Pass
NVNT	g	2412	-47.19	-20	Pass
NVNT	g	2437	-44.7	-20	Pass
NVNT	g	2462	-45.8	-20	Pass
NVNT	n20	2412	-47.9	-20	Pass
NVNT	n20	2437	-46.86	-20	Pass
NVNT	n20	2462	-44.92	-20	Pass
NVNT	n40	2422	-47.55	-20	Pass
NVNT	n40	2437	-46.08	-20	Pass
NVNT	n40	2452	-45.26	-20	Pass

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Test Graphs

Tx. Spurious NVNT b 2412MHz Ref



Tx. Spurious NVNT b 2412MHz Emission



Tx. Spurious NVNT b 2437MHz Ref



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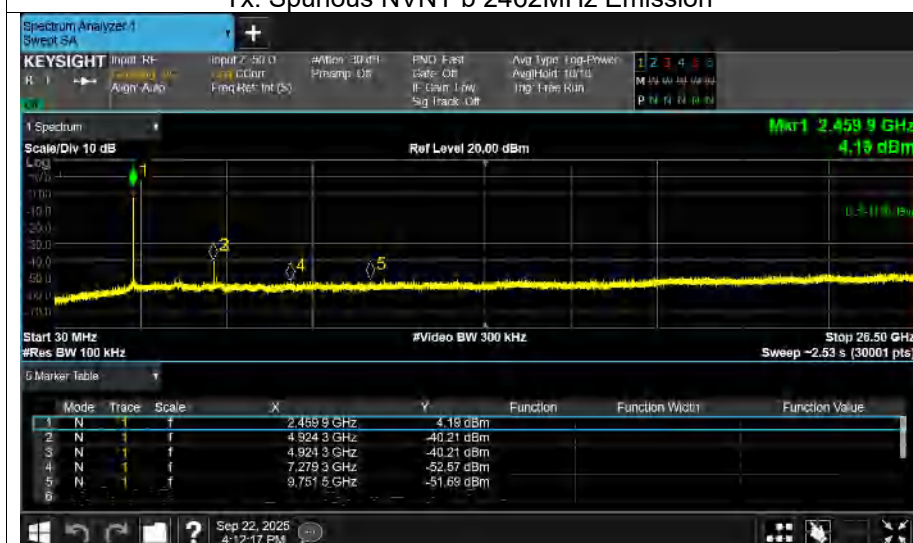
Tx. Spurious NVNT b 2437MHz Emission



Tx. Spurious NVNT b 2462MHz Ref



Tx. Spurious NVNT b 2462MHz Emission



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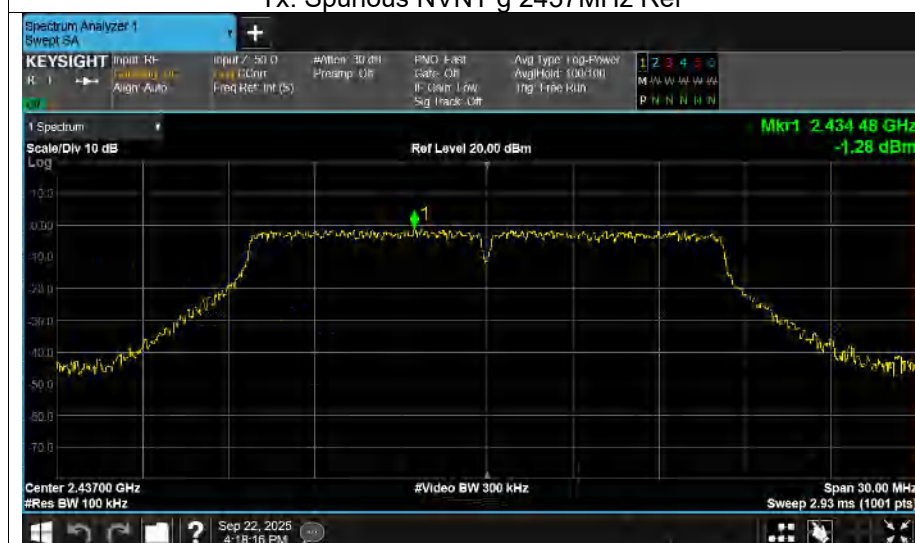
Tx. Spurious NVNT g 2412MHz Ref



Tx. Spurious NVNT g 2412MHz Emission



Tx. Spurious NVNT g 2437MHz Ref



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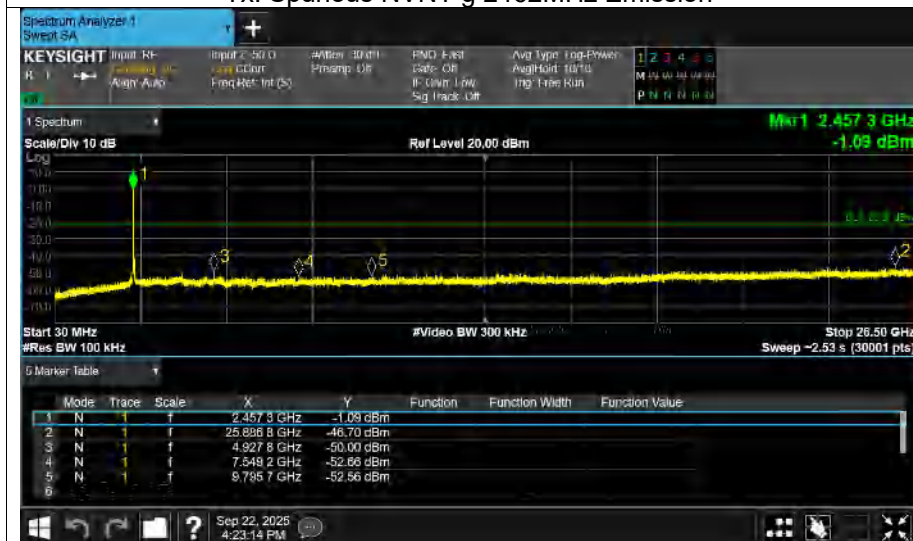
Tx. Spurious NVNT g 2437MHz Emission



Tx. Spurious NVNT g 2462MHz Ref



Tx. Spurious NVNT g 2462MHz Emission



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Tx. Spurious NVNT n20 2412MHz Ref



Tx. Spurious NVNT n20 2412MHz Emission



Tx. Spurious NVNT n20 2437MHz Ref



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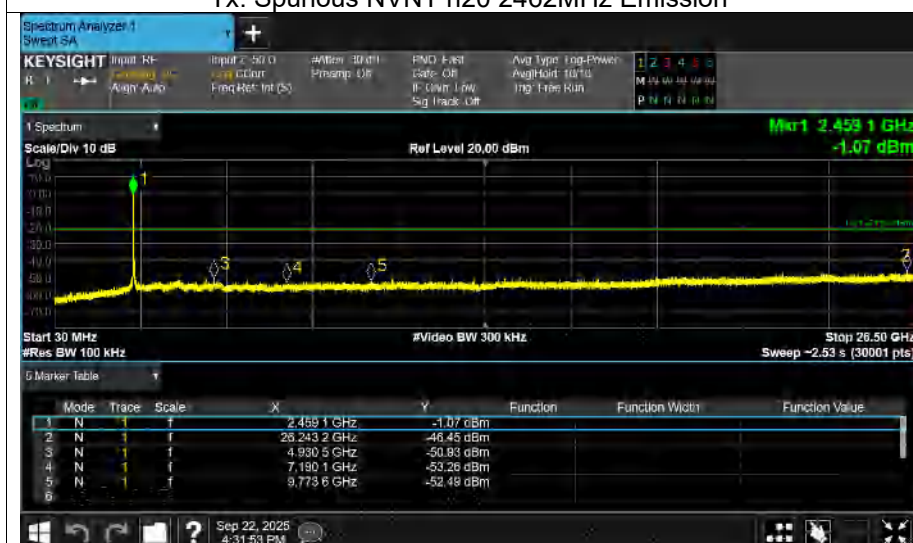
Tx. Spurious NVNT n20 2437MHz Emission



Tx. Spurious NVNT n20 2462MHz Ref



Tx. Spurious NVNT n20 2462MHz Emission



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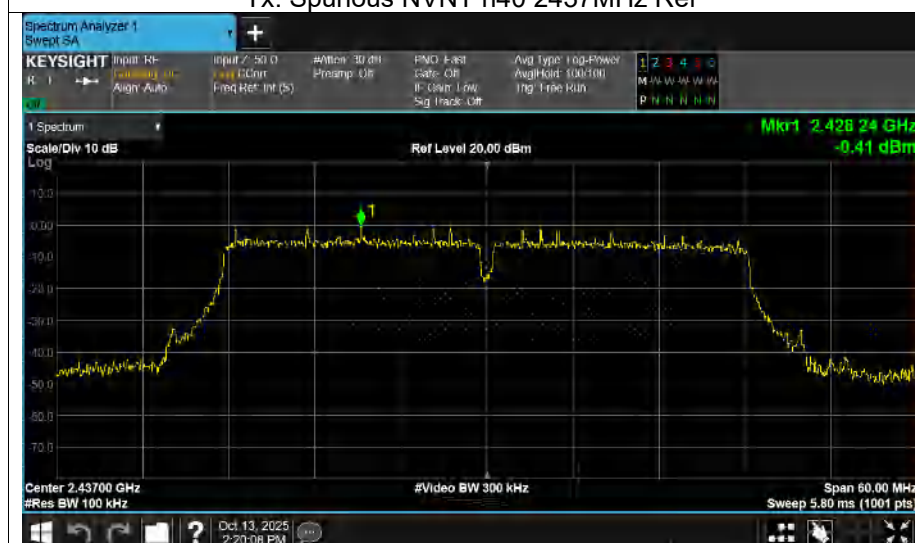
Tx. Spurious NVNT n40 2422MHz Ref



Tx. Spurious NVNT n40 2422MHz Emission



Tx. Spurious NVNT n40 2437MHz Ref



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Tx. Spurious NVNT n40 2437MHz Emission



Tx. Spurious NVNT n40 2452MHz Ref



Tx. Spurious NVNT n40 2452MHz Emission



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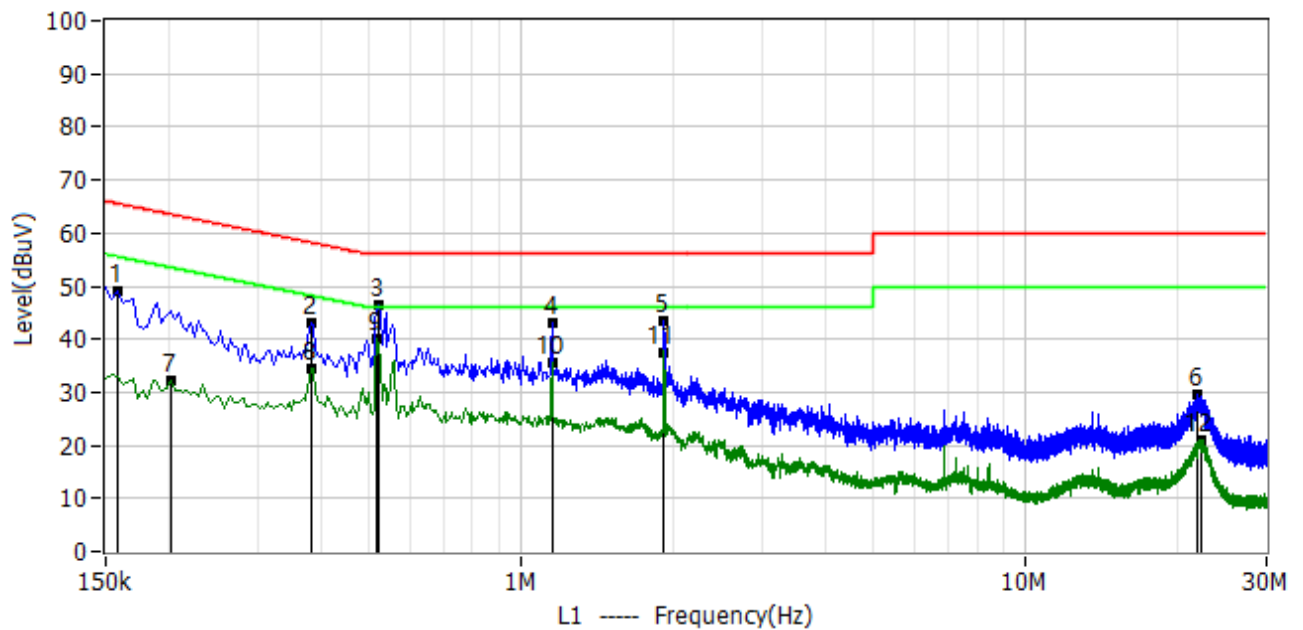
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CONDUCTED EMISSION MEASUREMENT

Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26.5°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-13
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.158	38.26	10.74	49.00	65.57	-16.57	QP	L1
2*	0.382	32.30	10.88	43.18	58.24	-15.06	QP	L1
3*	0.522	35.38	10.93	46.31	56.00	-9.69	QP	L1
4*	1.150	32.10	10.96	43.06	56.00	-12.94	QP	L1
5*	1.918	32.26	11.10	43.36	56.00	-12.64	QP	L1
6*	21.950	17.61	11.84	29.45	60.00	-30.55	QP	L1
7*	0.202	21.61	10.73	32.34	53.53	-21.19	AV	L1
8*	0.382	23.76	10.88	34.64	48.24	-13.59	AV	L1
9*	0.518	29.05	10.93	39.98	46.00	-6.02	AV	L1
10*	1.150	24.65	10.96	35.61	46.00	-10.39	AV	L1
11*	1.918	26.54	11.10	37.64	46.00	-8.36	AV	L1
12*	22.350	9.19	11.84	21.03	50.00	-28.97	AV	L1

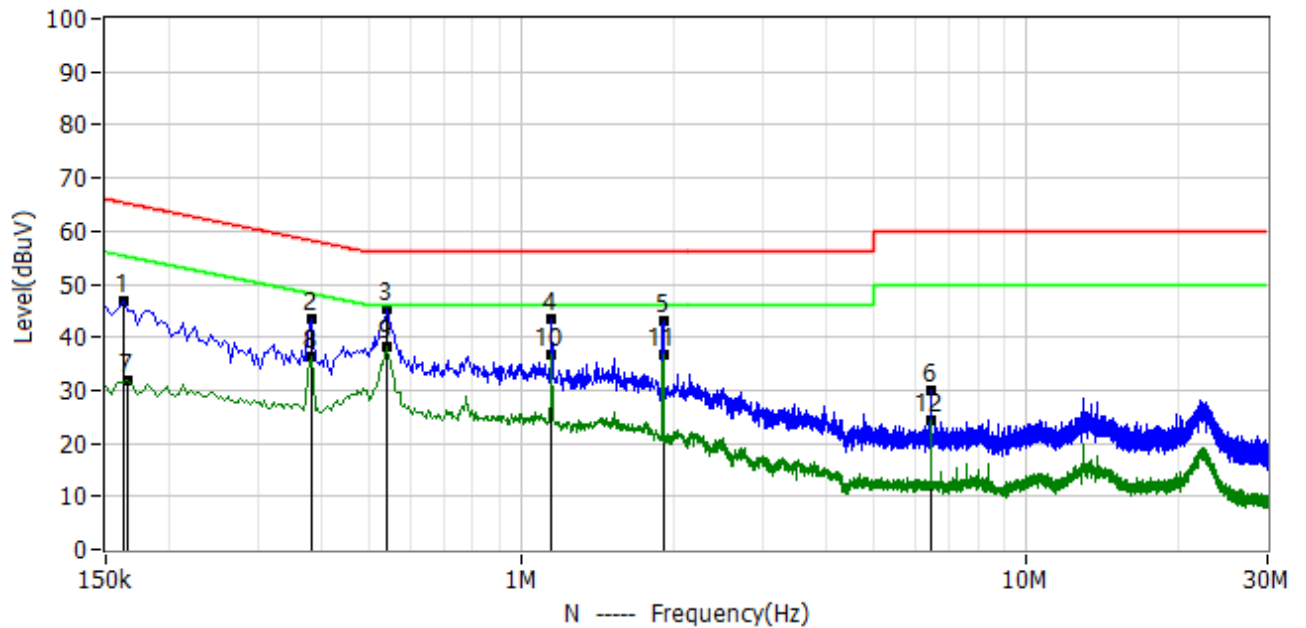
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26.5°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-13
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	36.07	10.66	46.73	65.36	-18.63	QP	N
2*	0.382	32.79	10.82	43.61	58.24	-14.63	QP	N
3*	0.542	34.29	10.85	45.14	56.00	-10.86	QP	N
4*	1.142	32.38	10.90	43.28	56.00	-12.72	QP	N
5*	1.906	32.06	11.13	43.19	56.00	-12.81	QP	N
6*	6.478	18.44	11.38	29.82	60.00	-30.18	QP	N
7*	0.166	21.32	10.64	31.96	55.16	-23.20	AV	N
8*	0.382	25.38	10.82	36.20	48.24	-12.04	AV	N
9*	0.538	27.30	10.85	38.15	46.00	-7.85	AV	N
10*	1.142	25.76	10.90	36.66	46.00	-9.34	AV	N
11*	1.906	25.39	11.13	36.52	46.00	-9.48	AV	N
12*	6.478	12.91	11.38	24.29	50.00	-25.71	AV	N

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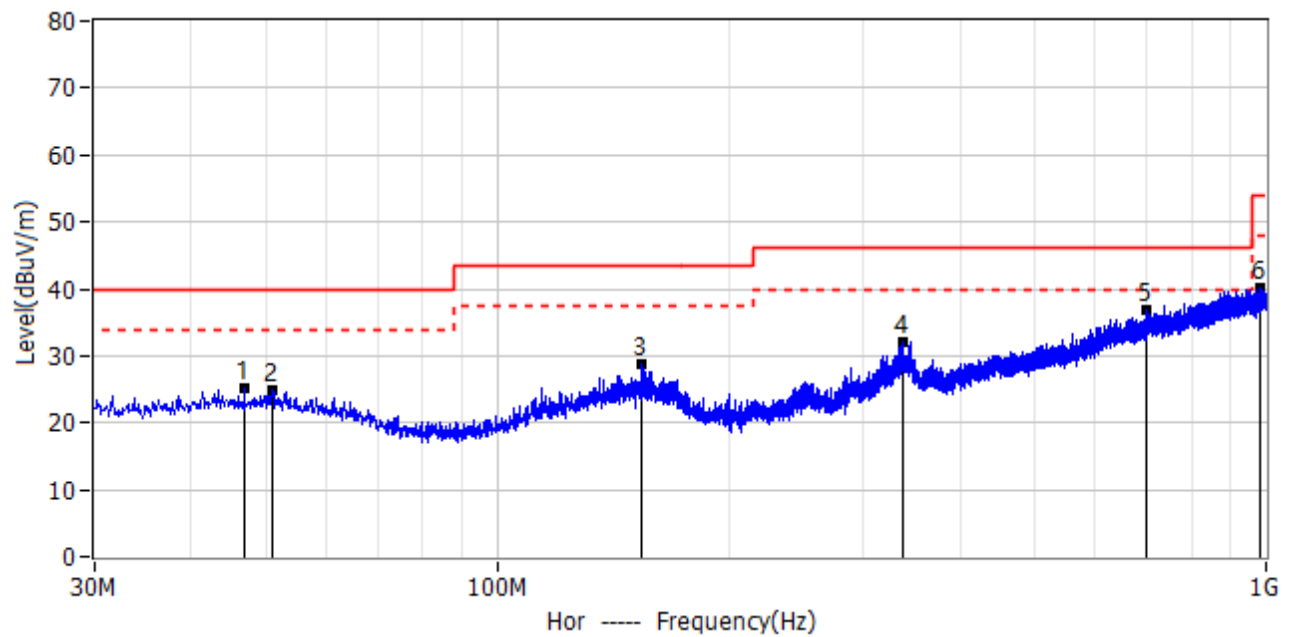
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Radiated Spurious Emission, 30MHz - 1GHz

Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 23.9°C
M/N: NW990-US	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-18
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	46.975	4.31	20.72	25.03	40.00	-14.97	QP	Hor
2*	50.976	4.01	20.95	24.96	40.00	-15.04	QP	Hor
3*	153.918	6.62	22.03	28.65	43.50	-14.85	QP	Hor
4*	337.005	8.66	23.47	32.13	46.00	-13.87	QP	Hor
5*	699.058	5.62	31.24	36.86	46.00	-9.14	QP	Hor
6*	982.298	4.81	35.29	40.10	54.00	-13.90	QP	Hor

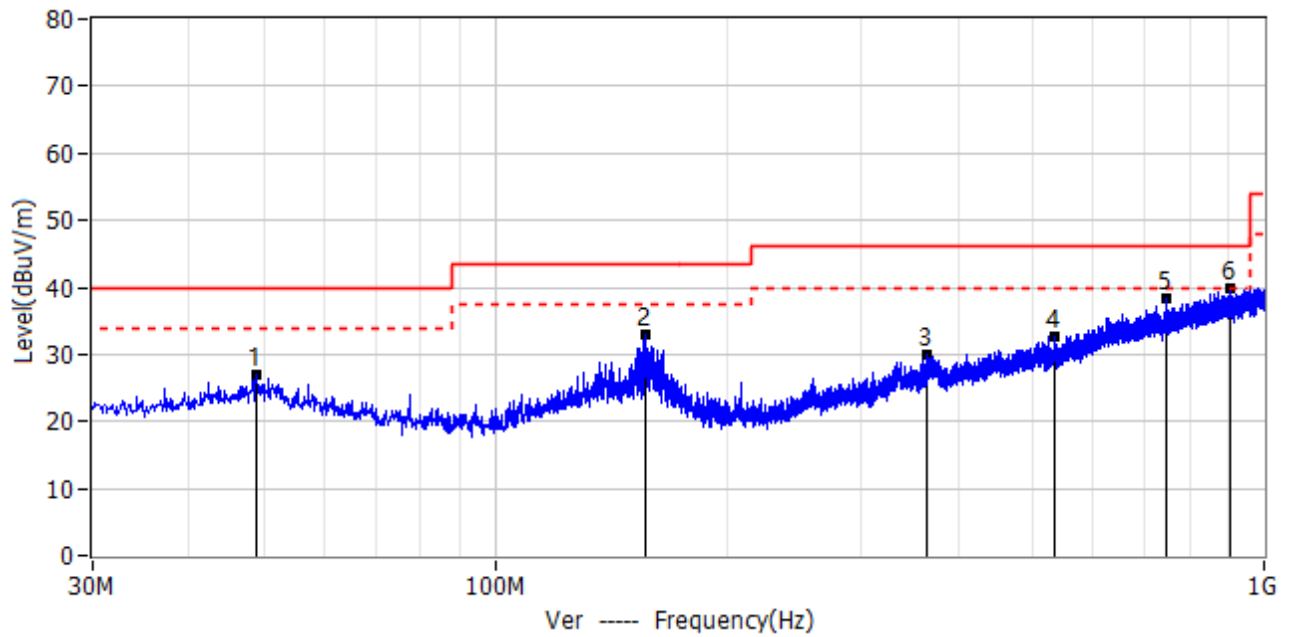
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 23.9°C
M/N: NW990-US	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-08-18
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	48.915	5.97	21.00	26.97	40.00	-13.03	QP	Ver
2*	156.706	10.63	22.28	32.91	43.50	-10.59	QP	Ver
3*	365.135	6.02	24.05	30.07	46.00	-15.93	QP	Ver
4*	532.945	4.50	28.10	32.60	46.00	-13.40	QP	Ver
5*	744.284	6.79	31.61	38.40	46.00	-7.60	QP	Ver
6*	904.698	5.63	34.37	40.00	46.00	-6.00	QP	Ver

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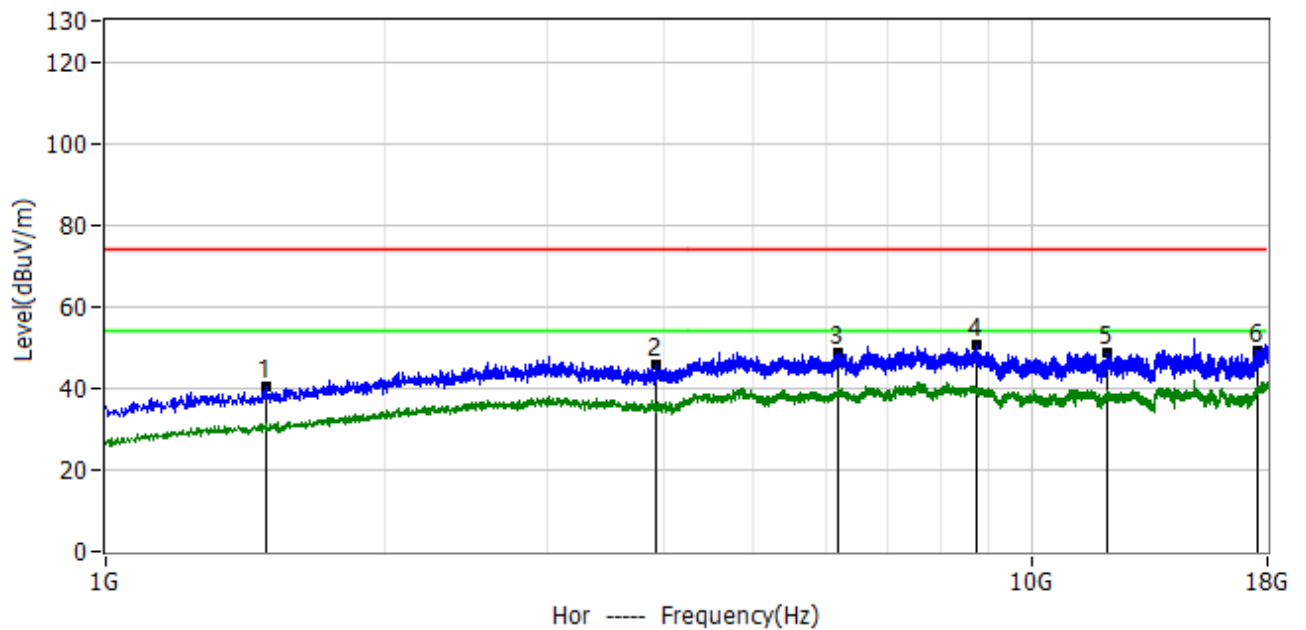
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Radiated Spurious Emission, 1GHz - 18GHz

Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1488.7000	60.79	-20.48	40.31	74.00	-33.69	PK	Hor
2*	3932.5000	53.31	-7.77	45.54	74.00	-28.46	PK	Hor
3*	6170.1000	56.30	-7.81	48.49	74.00	-25.51	PK	Hor
4*	8747.7000	57.75	-7.25	50.50	74.00	-23.50	PK	Hor
5*	12092.5000	53.65	-4.93	48.72	74.00	-25.28	PK	Hor
6*	17579.2000	53.13	-3.98	49.15	74.00	-24.85	PK	Hor

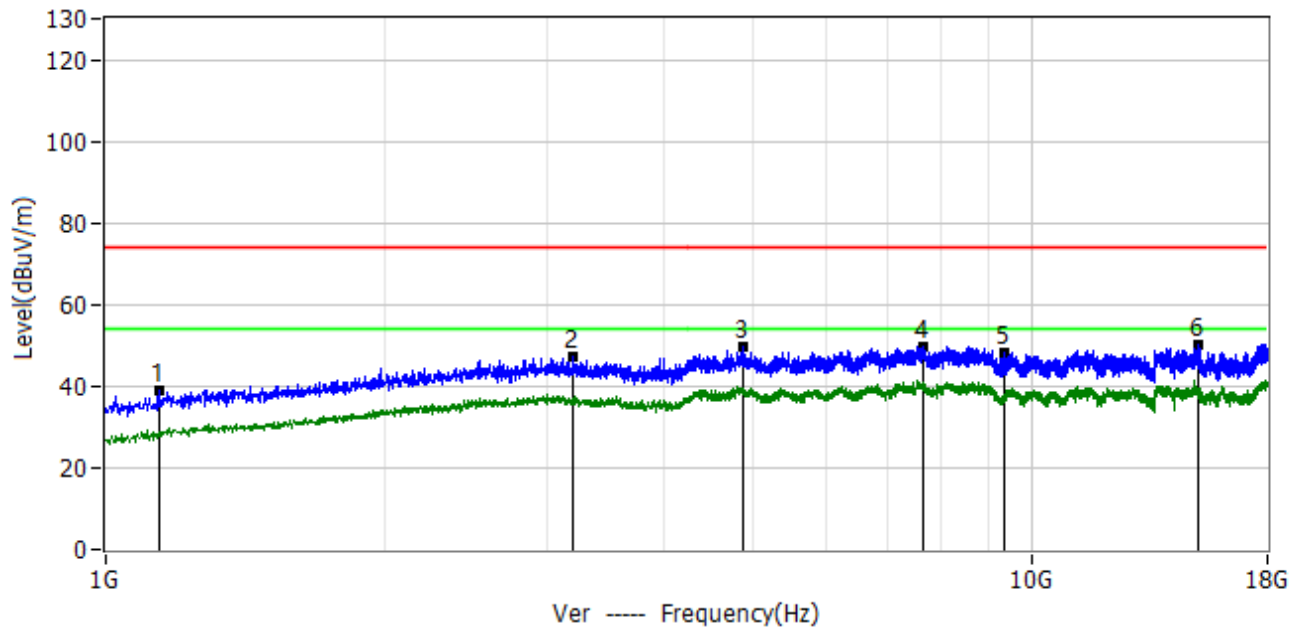
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1142.4000	62.51	-23.77	38.74	74.00	-35.26	PK	Ver
2*	3199.4000	55.38	-8.19	47.19	74.00	-26.81	PK	Ver
3*	4871.7000	55.44	-5.90	49.54	74.00	-24.46	PK	Ver
4*	7655.5000	56.93	-7.30	49.63	74.00	-24.37	PK	Ver
5*	9361.9000	55.41	-7.12	48.29	74.00	-25.71	PK	Ver
6*	15120.6000	53.67	-3.76	49.91	74.00	-24.09	PK	Ver

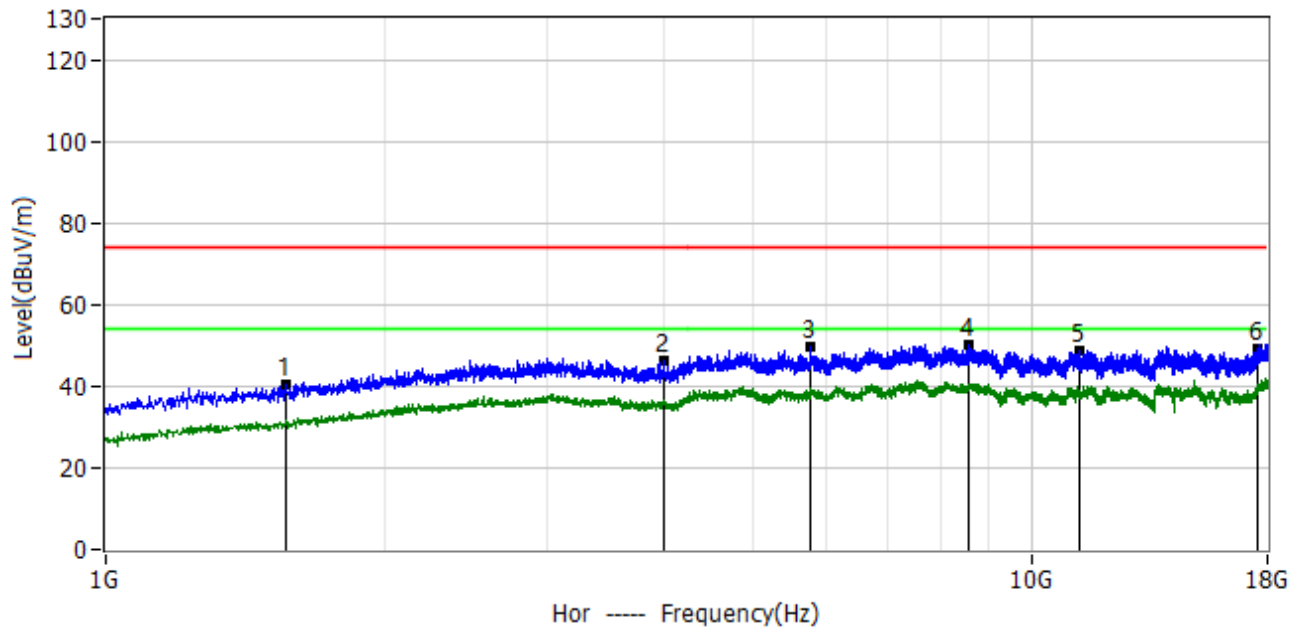
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11b 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1563.1000	60.49	-19.85	40.64	74.00	-33.36	PK	Hor
2*	4004.7000	54.00	-7.67	46.33	74.00	-27.67	PK	Hor
3*	5783.4000	57.52	-7.94	49.58	74.00	-24.42	PK	Hor
4*	8562.9000	57.74	-7.43	50.31	74.00	-23.69	PK	Hor
5*	11291.4000	53.74	-5.05	48.69	74.00	-25.31	PK	Hor
6*	17585.6000	53.16	-3.97	49.19	74.00	-24.81	PK	Hor

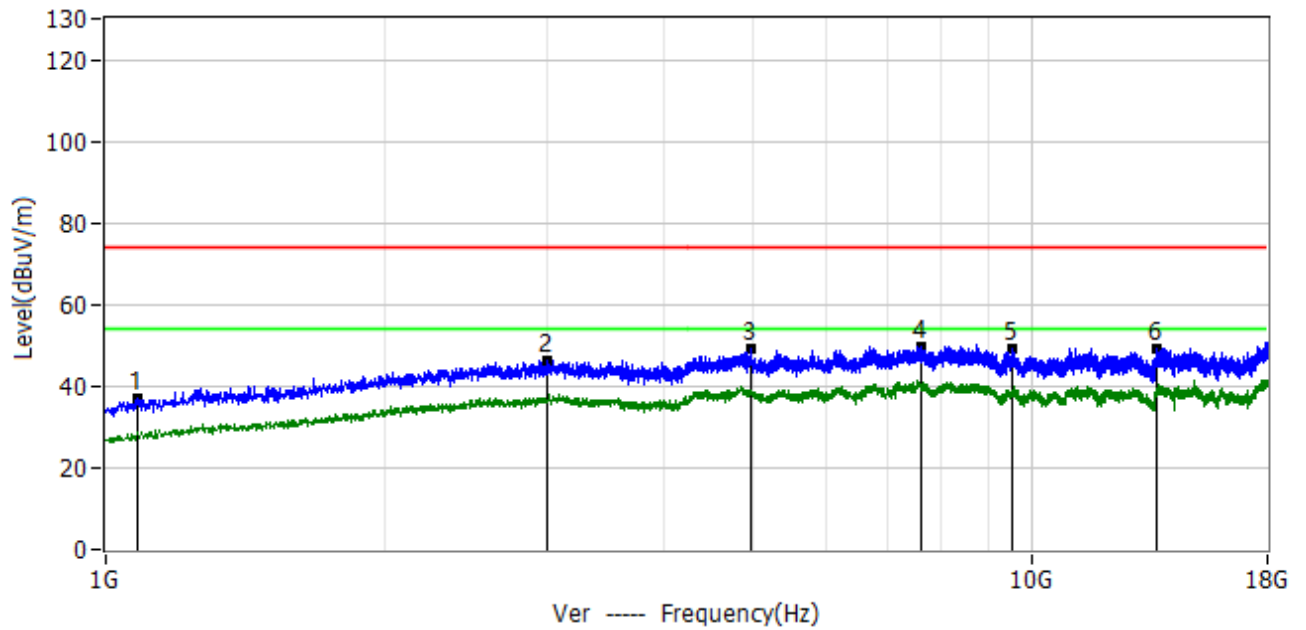
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11b 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1080.7000	61.42	-24.44	36.98	74.00	-37.02	PK	Ver
2*	3003.9000	54.53	-8.12	46.41	74.00	-27.59	PK	Ver
3*	4982.2000	55.16	-6.00	49.16	74.00	-24.84	PK	Ver
4*	7621.5000	57.01	-7.23	49.78	74.00	-24.22	PK	Ver
5*	9531.9000	56.14	-7.18	48.96	74.00	-25.04	PK	Ver
6*	13690.5000	54.45	-5.13	49.32	74.00	-24.68	PK	Ver

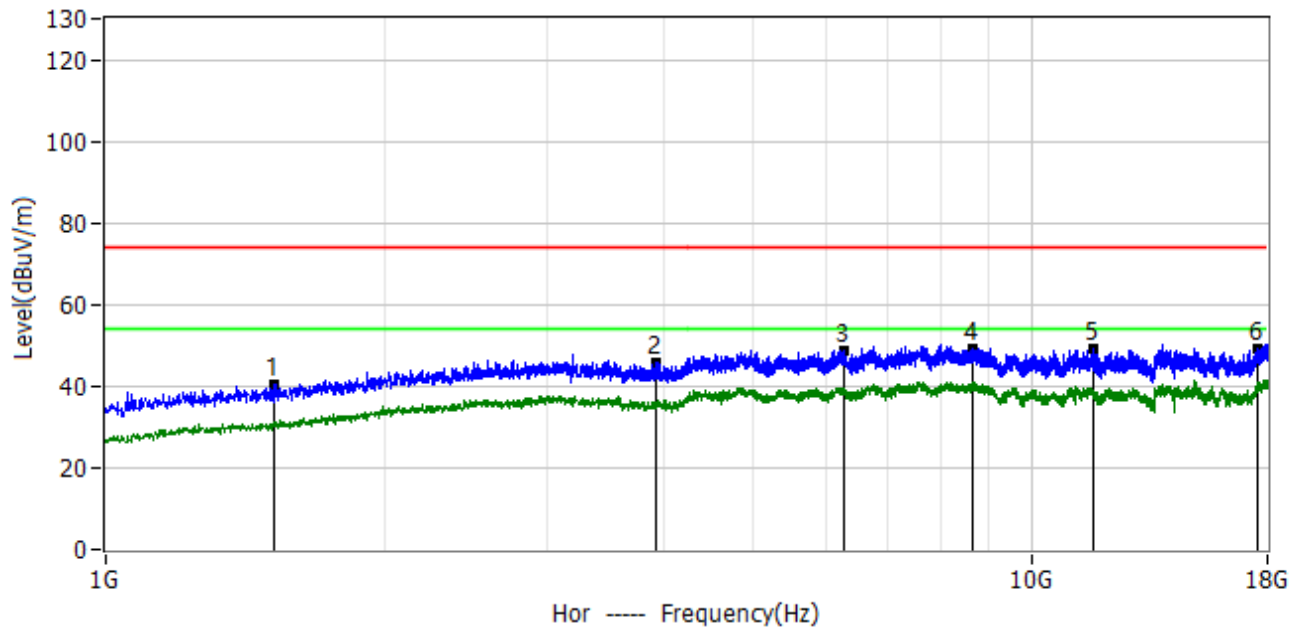
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1522.7000	60.64	-20.20	40.44	74.00	-33.56	PK	Hor
2*	3938.9000	53.54	-7.77	45.77	74.00	-28.23	PK	Hor
3*	6289.1000	56.31	-7.70	48.61	74.00	-25.39	PK	Hor
4*	8643.6000	56.50	-7.35	49.15	74.00	-24.85	PK	Hor
5*	11684.5000	53.94	-4.98	48.96	74.00	-25.04	PK	Hor
6*	17568.6000	53.14	-4.01	49.13	74.00	-24.87	PK	Hor

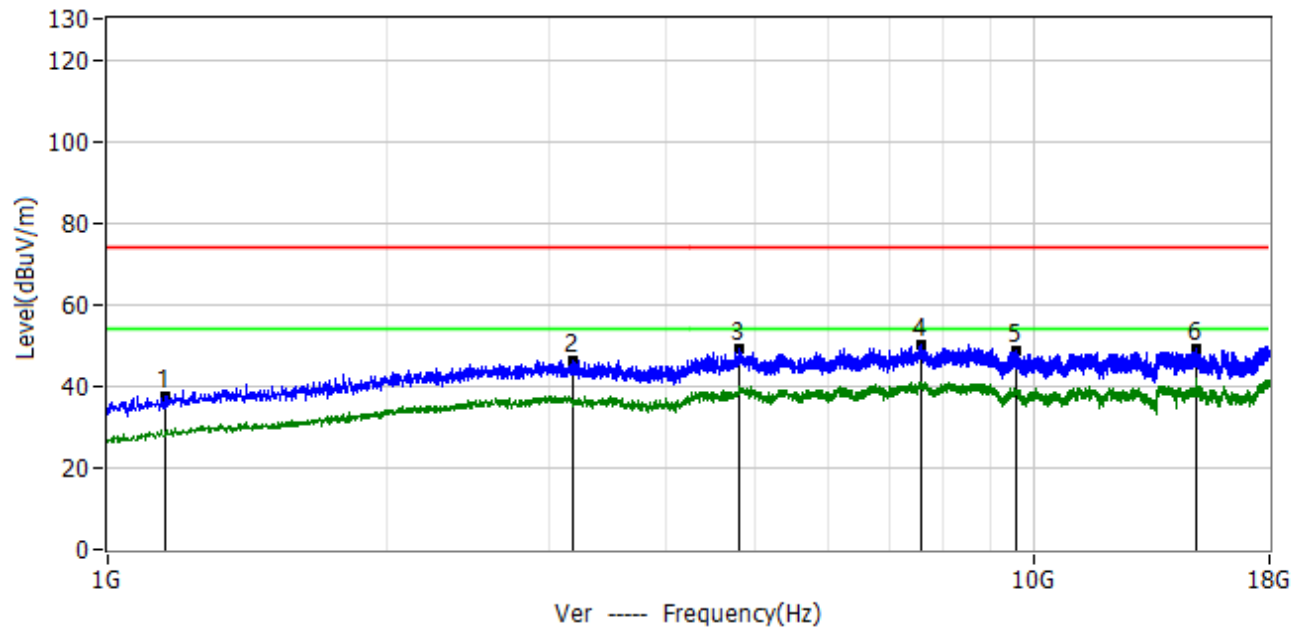
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1155.1000	61.20	-23.63	37.57	74.00	-36.43	PK	Ver
2*	3184.5000	54.54	-8.19	46.35	74.00	-27.65	PK	Ver
3*	4814.4000	54.91	-5.86	49.05	74.00	-24.95	PK	Ver
4*	7551.4000	57.39	-7.09	50.30	74.00	-23.70	PK	Ver
5*	9568.0000	56.07	-7.19	48.88	74.00	-25.12	PK	Ver
6*	14980.4000	52.84	-3.89	48.95	74.00	-25.05	PK	Ver

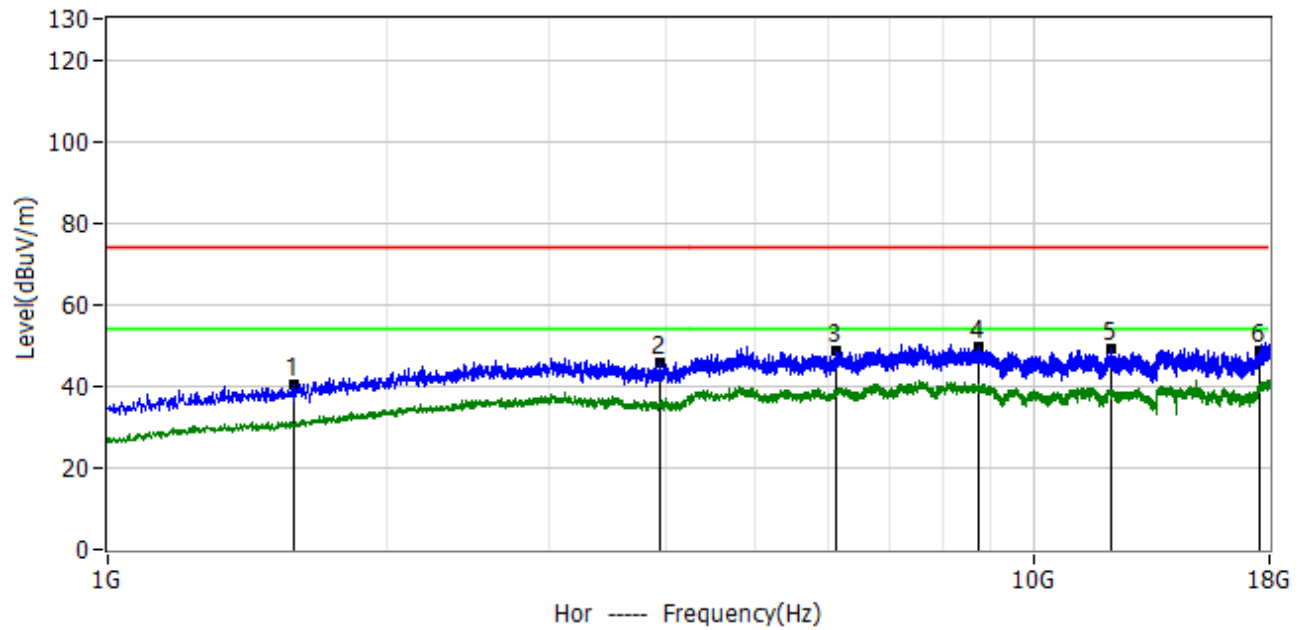
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1588.6000	60.14	-19.63	40.51	74.00	-33.49	PK	Hor
2*	3947.4000	53.42	-7.75	45.67	74.00	-28.33	PK	Hor
3*	6117.0000	56.56	-7.87	48.69	74.00	-25.31	PK	Hor
4*	8735.0000	56.84	-7.26	49.58	74.00	-24.42	PK	Hor
5*	12152.0000	54.06	-4.92	49.14	74.00	-24.86	PK	Hor
6*	17541.0000	53.01	-4.09	48.92	74.00	-25.08	PK	Hor

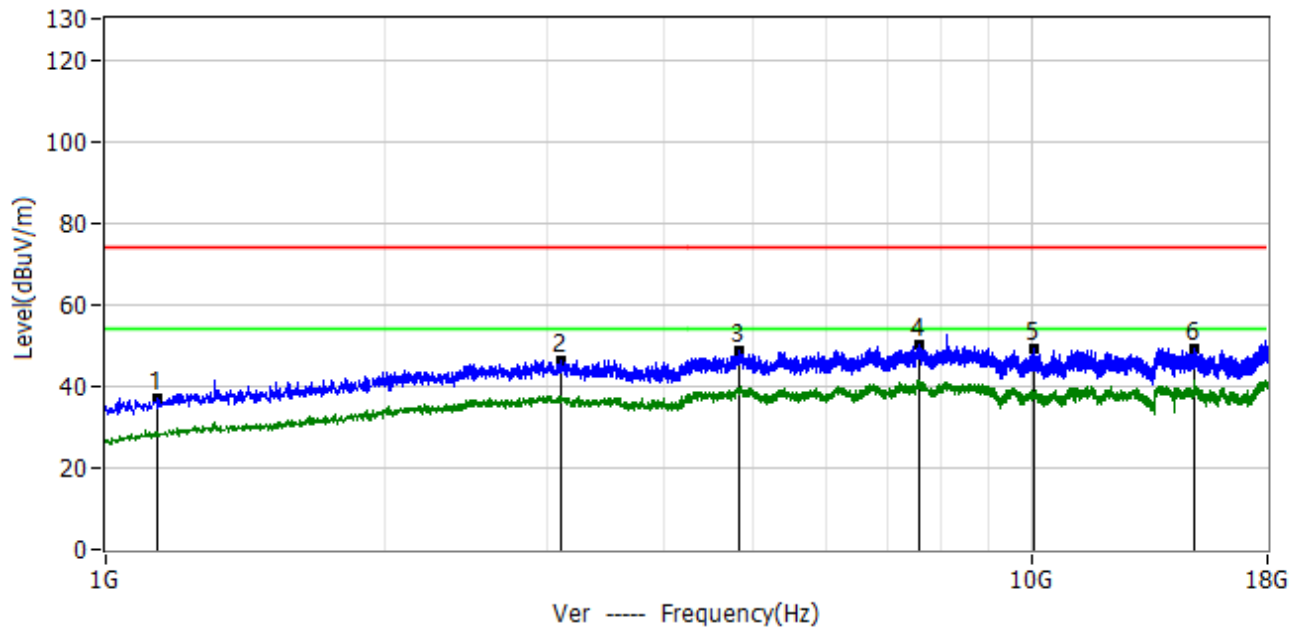
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1138.1000	60.86	-23.82	37.04	74.00	-36.96	PK	Ver
2*	3108.0000	54.50	-8.16	46.34	74.00	-27.66	PK	Ver
3*	4837.7000	54.64	-5.88	48.76	74.00	-25.24	PK	Ver
4*	7564.1000	57.43	-7.12	50.31	74.00	-23.69	PK	Ver
5*	10073.7000	56.18	-7.17	49.01	74.00	-24.99	PK	Ver
6*	14976.1000	53.13	-3.91	49.22	74.00	-24.78	PK	Ver

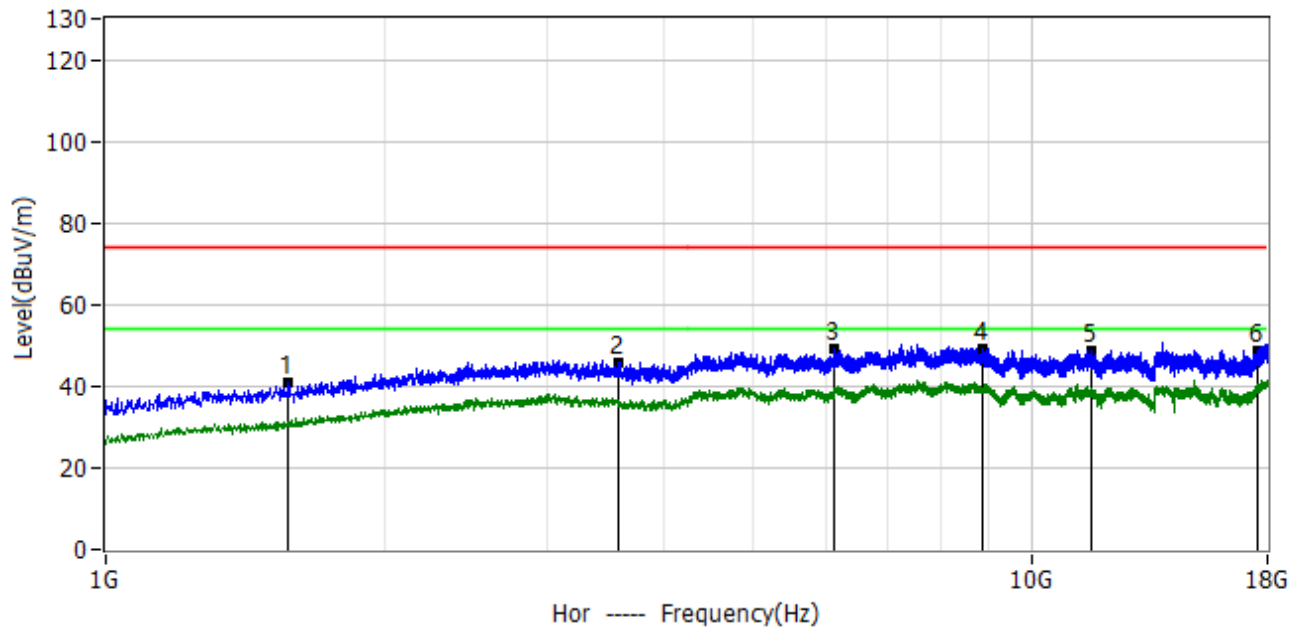
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1575.9000	60.44	-19.74	40.70	74.00	-33.30	PK	Hor
2*	3588.2000	54.18	-8.20	45.98	74.00	-28.02	PK	Hor
3*	6131.9000	56.88	-7.85	49.03	74.00	-24.97	PK	Hor
4*	8856.1000	56.42	-7.14	49.28	74.00	-24.72	PK	Hor
5*	11629.2000	53.73	-4.99	48.74	74.00	-25.26	PK	Hor
6*	17587.7000	52.83	-3.96	48.87	74.00	-25.13	PK	Hor

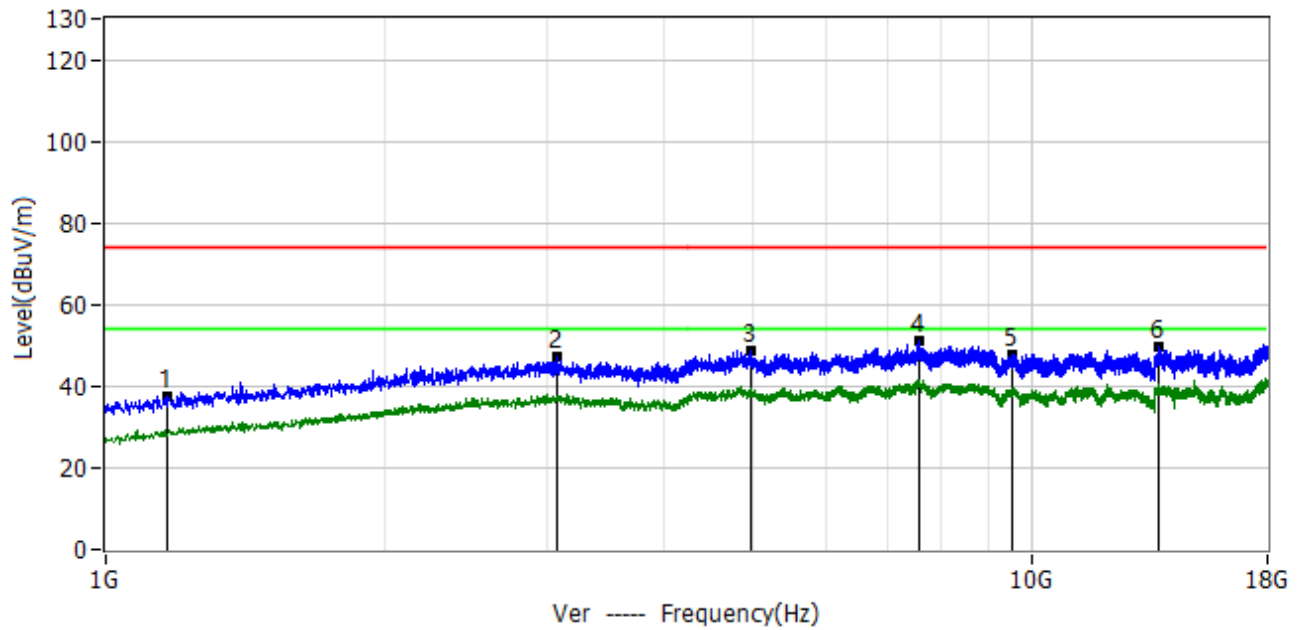
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1165.7000	61.24	-23.51	37.73	74.00	-36.27	PK	Ver
2*	3080.4000	55.45	-8.15	47.30	74.00	-26.70	PK	Ver
3*	4973.7000	54.87	-5.99	48.88	74.00	-25.12	PK	Ver
4*	7583.2000	58.32	-7.15	51.17	74.00	-22.83	PK	Ver
5*	9555.2000	55.11	-7.18	47.93	74.00	-26.07	PK	Ver
6*	13745.7000	54.33	-4.91	49.42	74.00	-24.58	PK	Ver

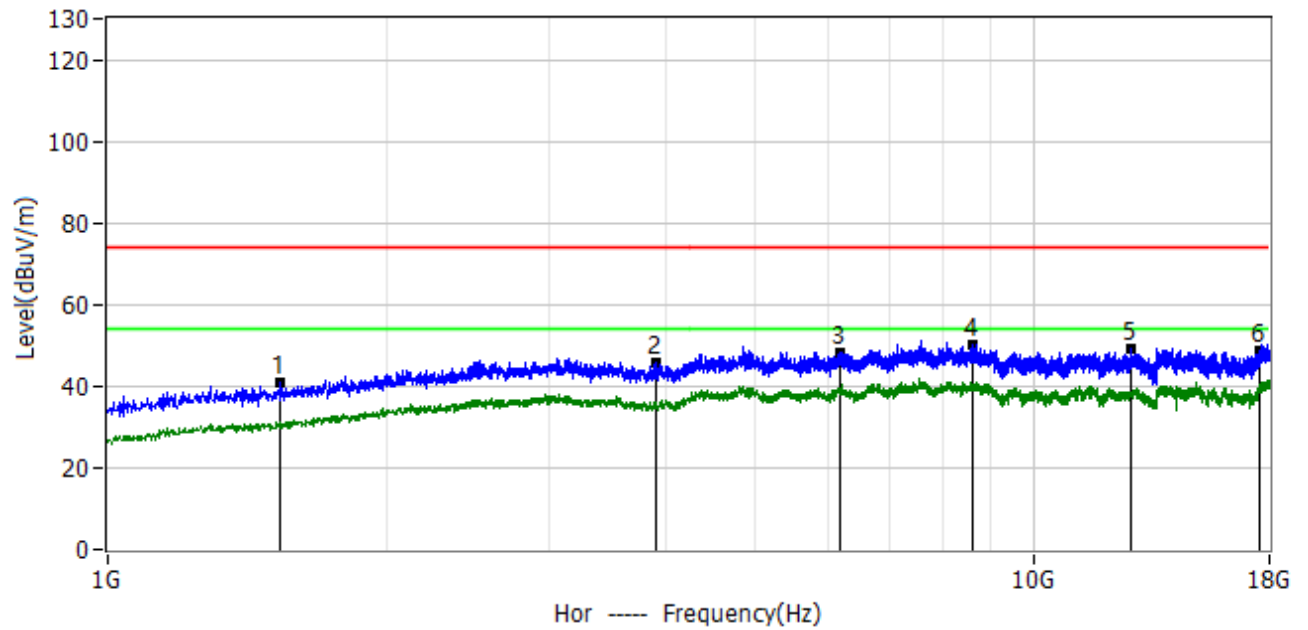
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1533.4000	61.14	-20.11	41.03	74.00	-32.97	PK	Hor
2*	3917.6000	53.77	-7.79	45.98	74.00	-28.02	PK	Hor
3*	6174.4000	56.05	-7.81	48.24	74.00	-25.76	PK	Hor
4*	8607.5000	57.50	-7.38	50.12	74.00	-23.88	PK	Hor
5*	12751.2000	53.86	-4.89	48.97	74.00	-25.03	PK	Hor
6*	17587.7000	52.66	-3.96	48.70	74.00	-25.30	PK	Hor

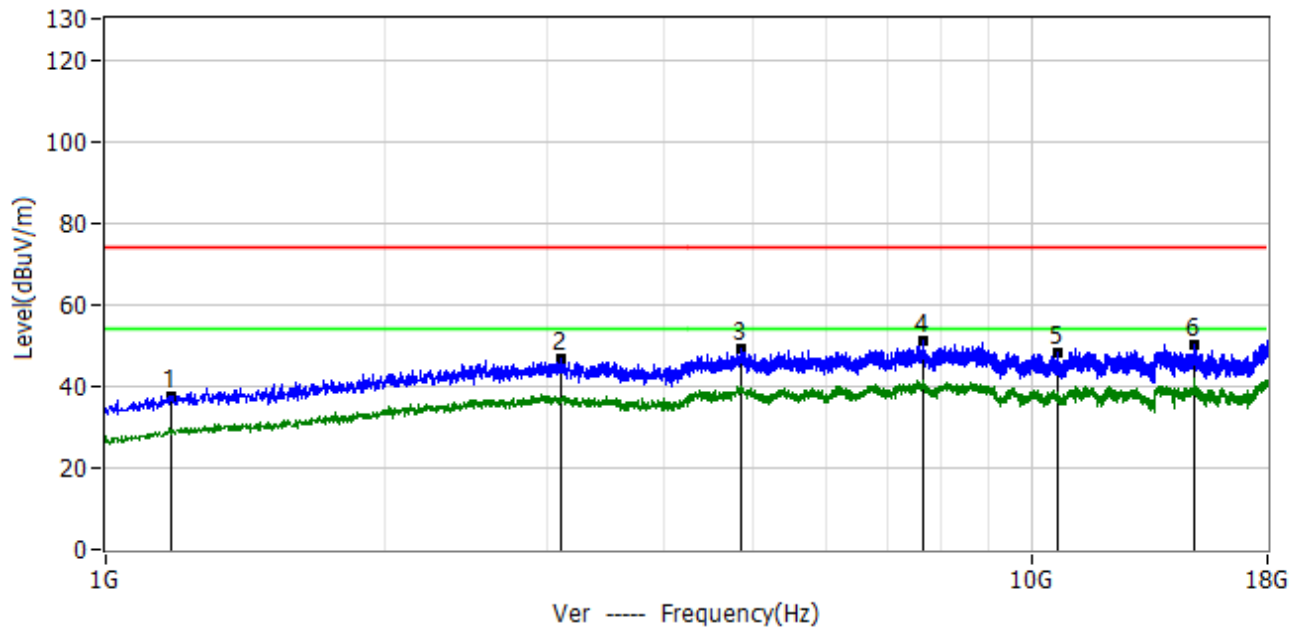
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11g 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1174.2000	61.00	-23.42	37.58	74.00	-36.42	PK	Ver
2*	3101.6000	54.98	-8.16	46.82	74.00	-27.18	PK	Ver
3*	4852.6000	55.12	-5.89	49.23	74.00	-24.77	PK	Ver
4*	7642.7000	58.51	-7.27	51.24	74.00	-22.76	PK	Ver
5*	10662.4000	54.02	-5.85	48.17	74.00	-25.83	PK	Ver
6*	14976.1000	54.04	-3.91	50.13	74.00	-23.87	PK	Ver

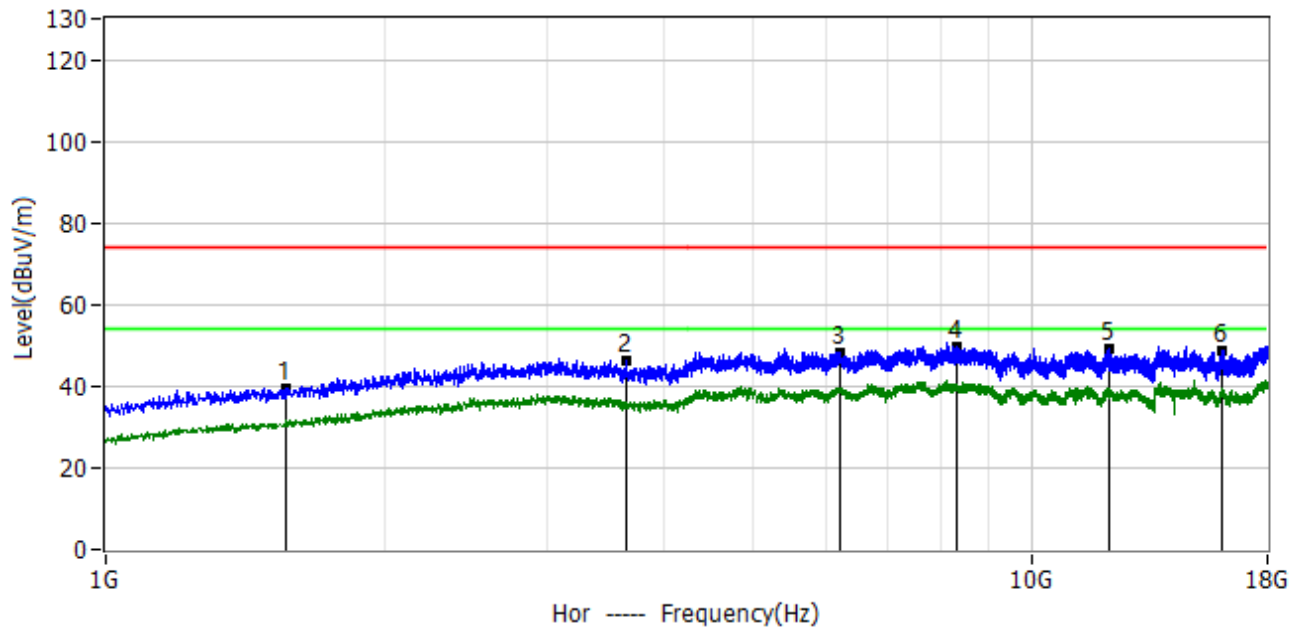
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1567.4000	59.42	-19.82	39.60	74.00	-34.40	PK	Hor
2*	3652.0000	54.21	-8.12	46.09	74.00	-27.91	PK	Hor
3*	6225.4000	56.19	-7.76	48.43	74.00	-25.57	PK	Hor
4*	8301.5000	57.12	-7.68	49.44	74.00	-24.56	PK	Hor
5*	12118.0000	54.10	-4.92	49.18	74.00	-24.82	PK	Hor
6*	16051.4000	52.60	-3.73	48.87	74.00	-25.13	PK	Hor

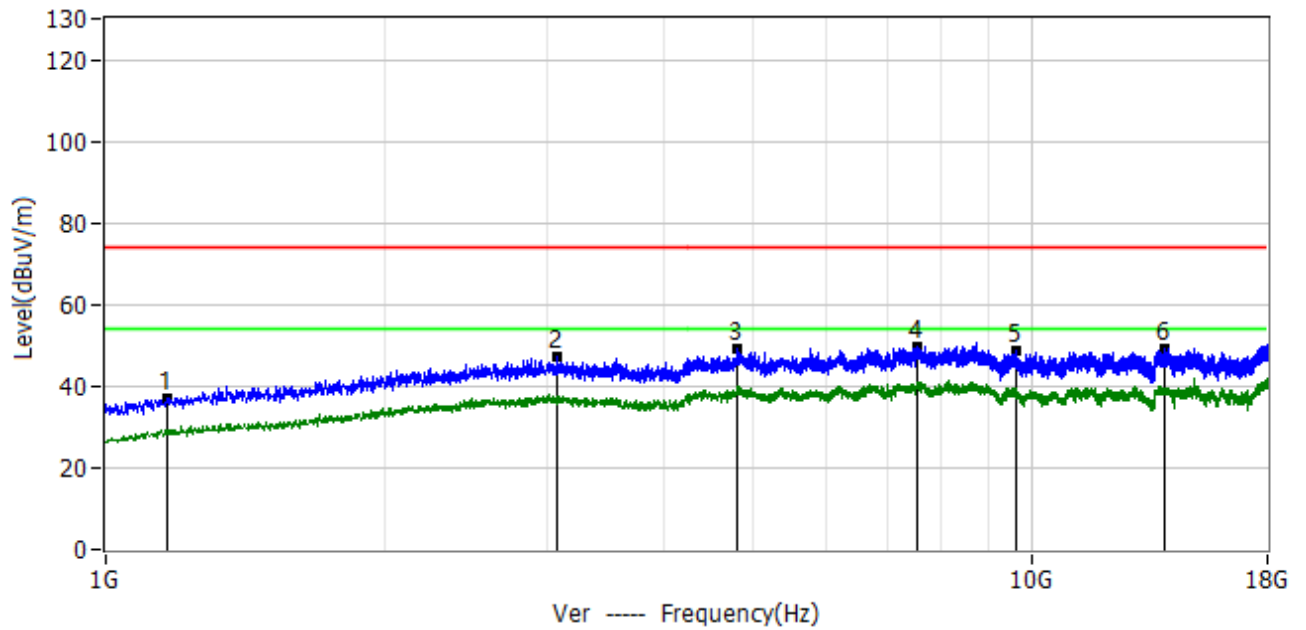
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1165.7000	60.32	-23.51	36.81	74.00	-37.19	PK	Ver
2*	3080.4000	55.37	-8.15	47.22	74.00	-26.78	PK	Ver
3*	4805.9000	55.07	-5.85	49.22	74.00	-24.78	PK	Ver
4*	7519.5000	56.83	-7.03	49.80	74.00	-24.20	PK	Ver
5*	9625.4000	55.80	-7.21	48.59	74.00	-25.41	PK	Ver
6*	13964.6000	53.39	-4.04	49.35	74.00	-24.65	PK	Ver

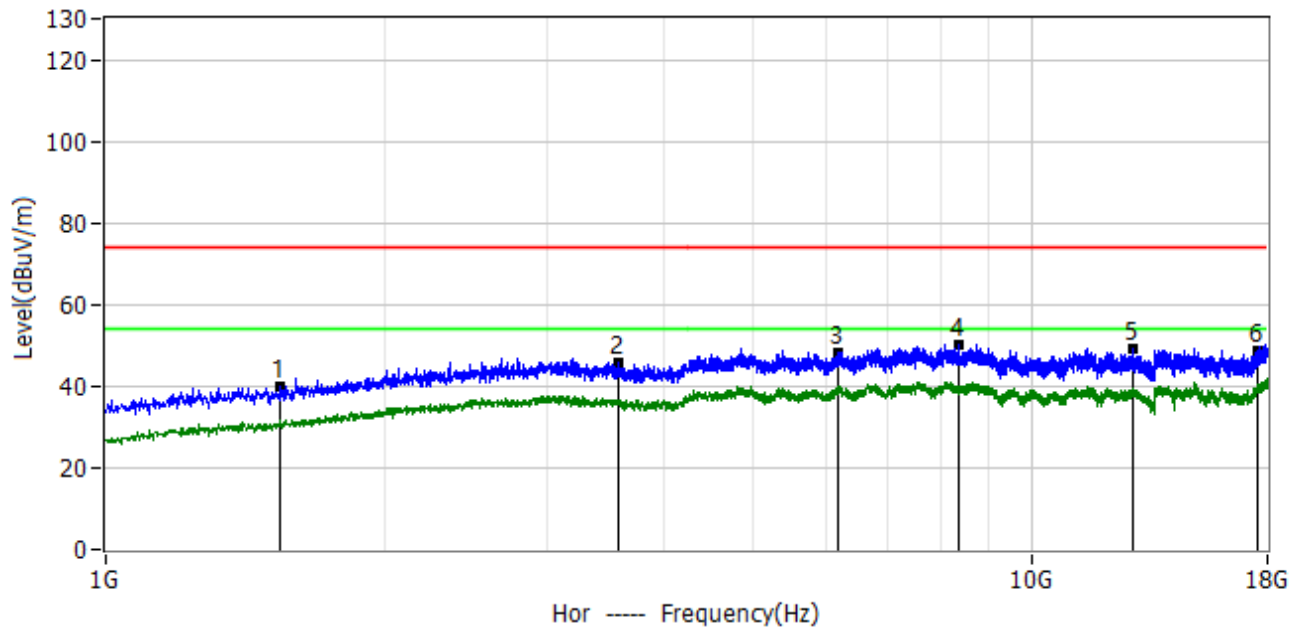
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1541.9000	59.99	-20.04	39.95	74.00	-34.05	PK	Hor
2*	3577.6000	54.09	-8.21	45.88	74.00	-28.12	PK	Hor
3*	6174.4000	56.18	-7.81	48.37	74.00	-25.63	PK	Hor
4*	8367.4000	57.87	-7.62	50.25	74.00	-23.75	PK	Hor
5*	12878.7000	53.90	-4.89	49.01	74.00	-24.99	PK	Hor
6*	17526.1000	52.96	-4.13	48.83	74.00	-25.17	PK	Hor

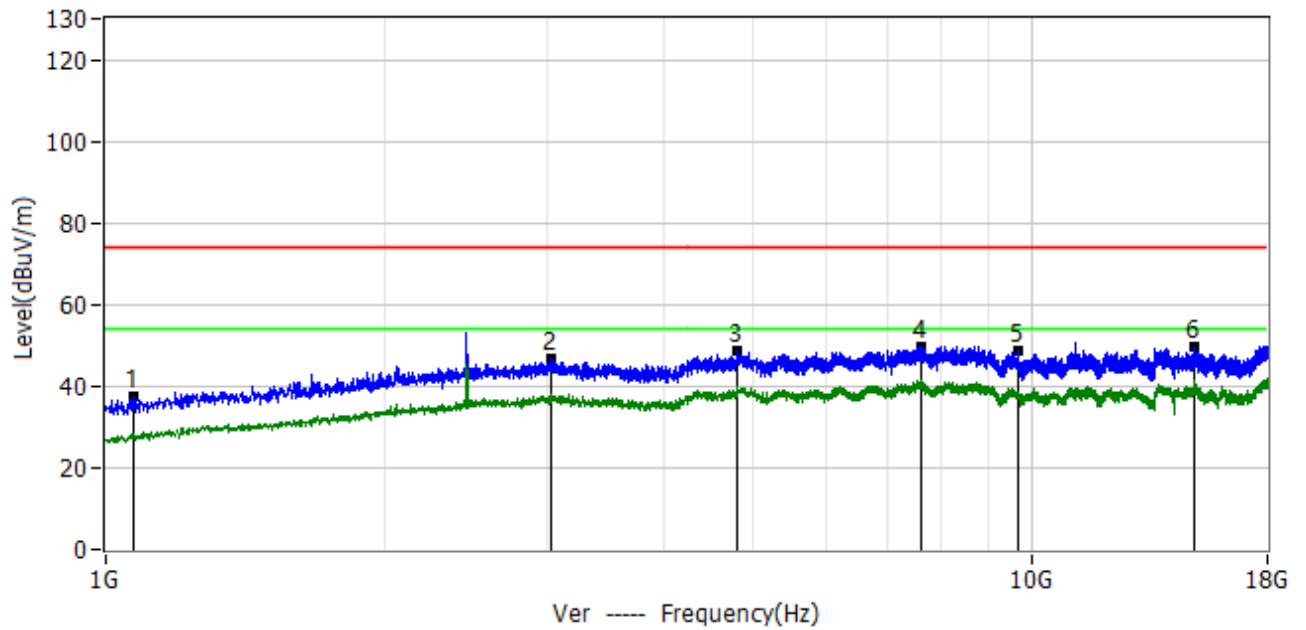
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1072.2000	62.15	-24.54	37.61	74.00	-36.39	PK	Ver
2*	3031.5000	54.64	-8.13	46.51	74.00	-27.49	PK	Ver
3*	4810.1000	54.48	-5.85	48.63	74.00	-25.37	PK	Ver
4*	7613.0000	56.95	-7.21	49.74	74.00	-24.26	PK	Ver
5*	9695.5000	56.00	-7.23	48.77	74.00	-25.23	PK	Ver
6*	14974.0000	53.64	-3.92	49.72	74.00	-24.28	PK	Ver

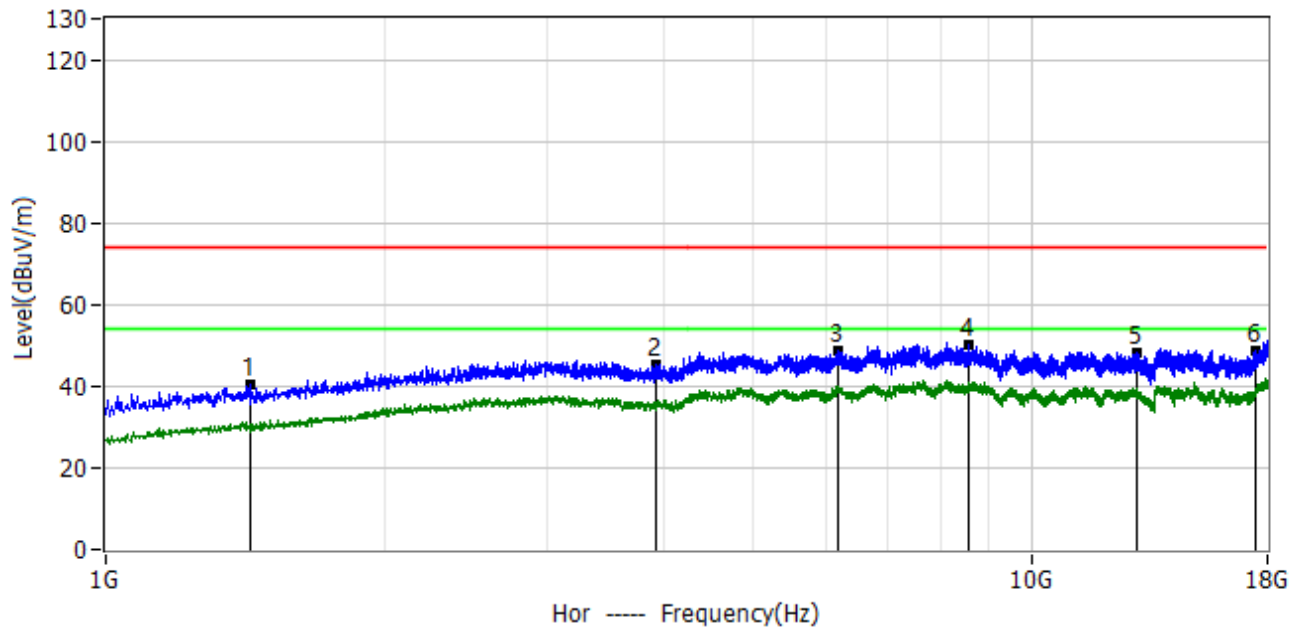
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1429.2000	61.36	-20.93	40.43	74.00	-33.57	PK	Hor
2*	3924.0000	53.24	-7.78	45.46	74.00	-28.54	PK	Hor
3*	6182.9000	56.30	-7.80	48.50	74.00	-25.50	PK	Hor
4*	8577.7000	57.34	-7.41	49.93	74.00	-24.07	PK	Hor
5*	12978.6000	53.15	-4.88	48.27	74.00	-25.73	PK	Hor
6*	17494.2000	52.92	-4.21	48.71	74.00	-25.29	PK	Hor

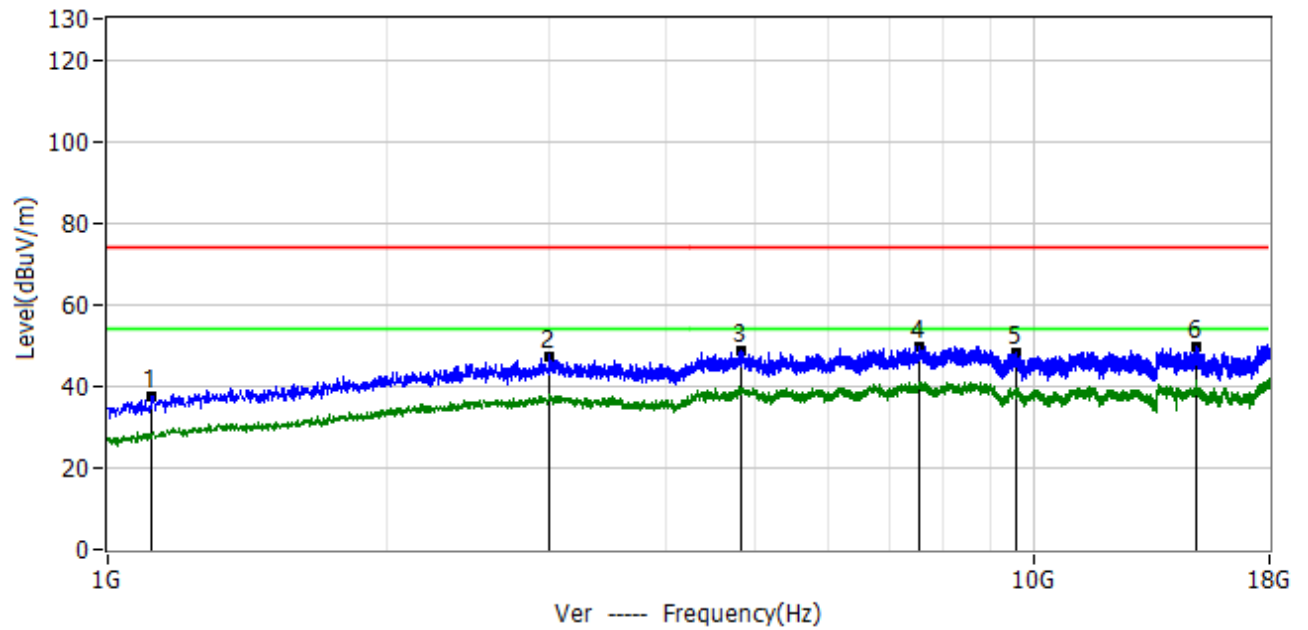
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n20 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1116.9000	61.48	-24.05	37.43	74.00	-36.57	PK	Ver
2*	3001.7000	55.59	-8.12	47.47	74.00	-26.53	PK	Ver
3*	4822.9000	54.43	-5.86	48.57	74.00	-25.43	PK	Ver
4*	7521.6000	56.89	-7.03	49.86	74.00	-24.14	PK	Ver
5*	9576.5000	55.36	-7.19	48.17	74.00	-25.83	PK	Ver
6*	14974.0000	53.52	-3.92	49.60	74.00	-24.40	PK	Ver

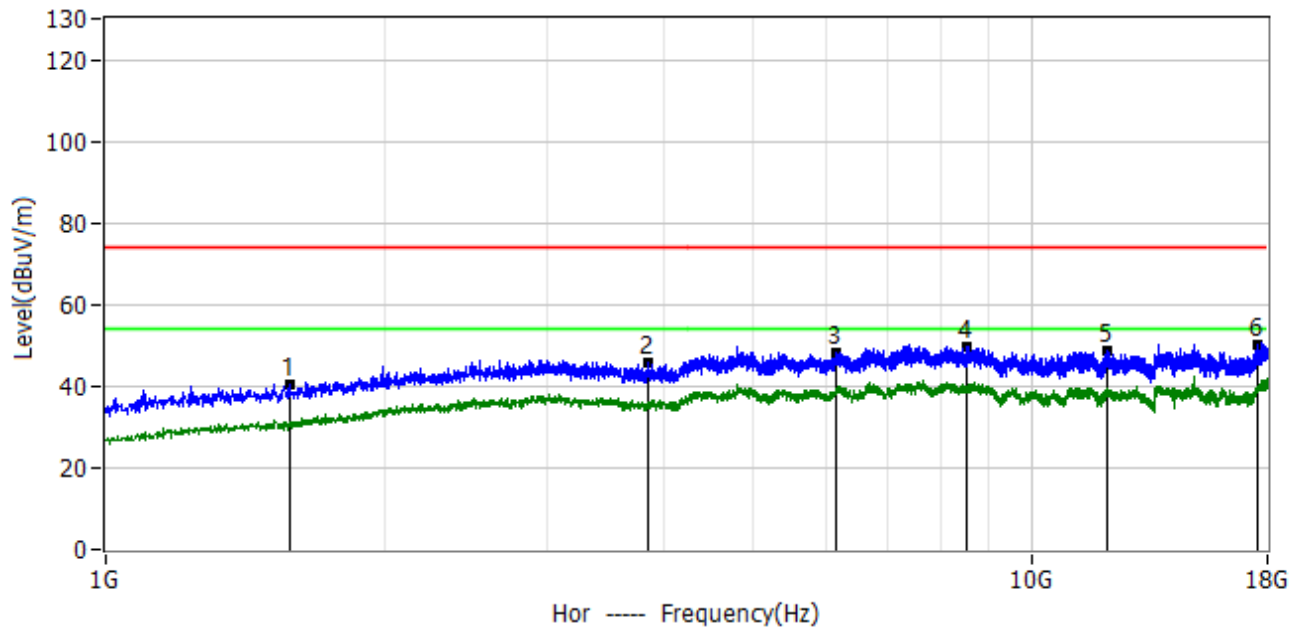
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2422	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1582.2000	60.22	-19.69	40.53	74.00	-33.47	PK	Hor
2*	3849.6000	53.68	-7.87	45.81	74.00	-28.19	PK	Hor
3*	6146.7000	56.19	-7.84	48.35	74.00	-25.65	PK	Hor
4*	8499.1000	57.07	-7.49	49.58	74.00	-24.42	PK	Hor
5*	12096.7000	53.56	-4.93	48.63	74.00	-25.37	PK	Hor
6*	17545.2000	54.02	-4.08	49.94	74.00	-24.06	PK	Hor

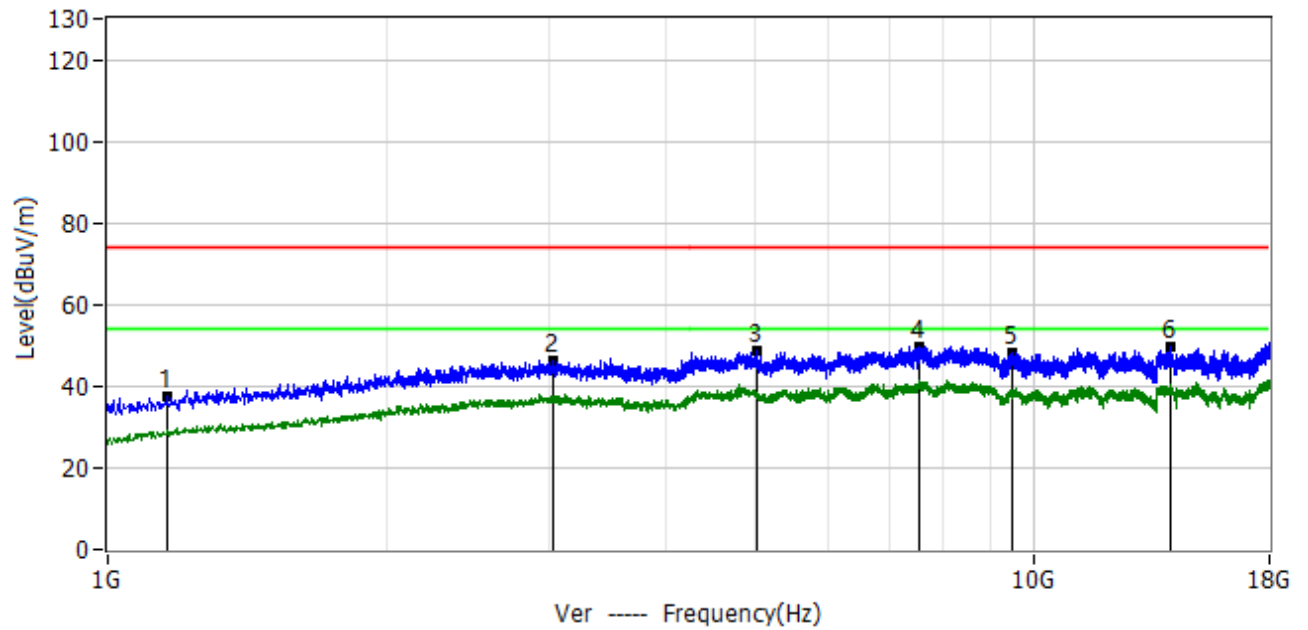
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2422	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1159.4000	61.25	-23.58	37.67	74.00	-36.33	PK	Ver
2*	3029.4000	54.40	-8.13	46.27	74.00	-27.73	PK	Ver
3*	5020.5000	54.57	-6.09	48.48	74.00	-25.52	PK	Ver
4*	7528.0000	56.86	-7.05	49.81	74.00	-24.19	PK	Ver
5*	9474.5000	55.36	-7.16	48.20	74.00	-25.80	PK	Ver
6*	14047.5000	53.73	-4.13	49.60	74.00	-24.40	PK	Ver

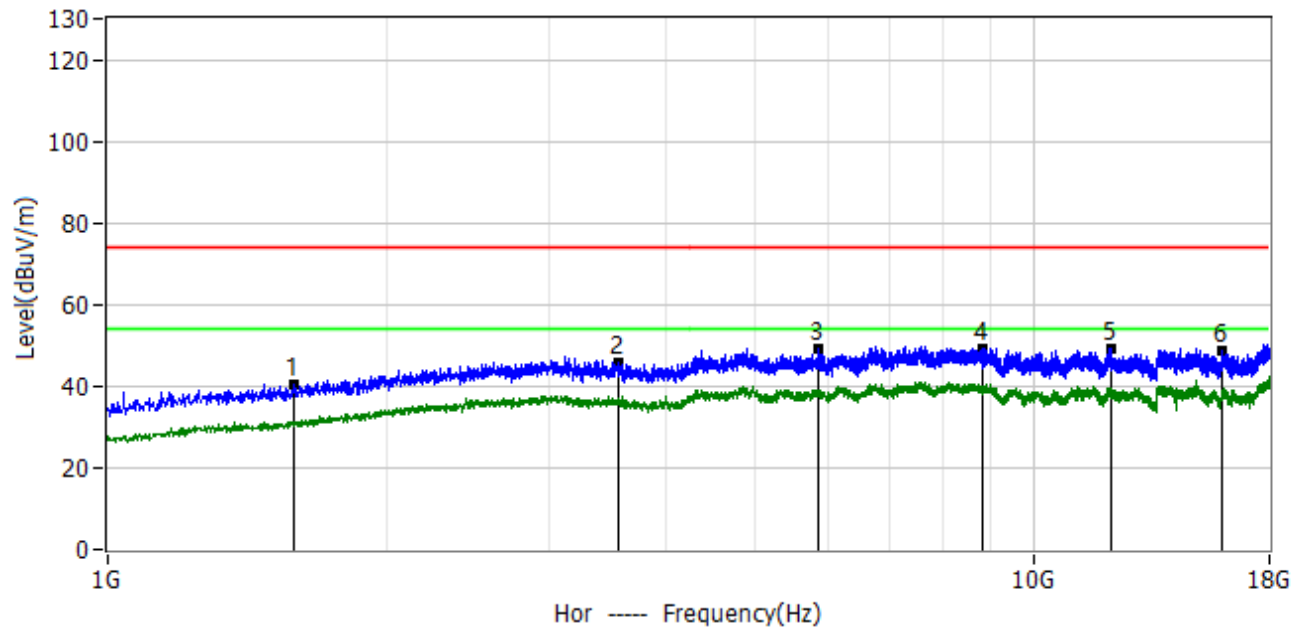
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1588.6000	60.08	-19.63	40.45	74.00	-33.55	PK	Hor
2*	3558.5000	53.95	-8.23	45.72	74.00	-28.28	PK	Hor
3*	5849.2000	56.98	-7.95	49.03	74.00	-24.97	PK	Hor
4*	8813.6000	56.42	-7.18	49.24	74.00	-24.76	PK	Hor
5*	12130.7000	53.91	-4.92	48.99	74.00	-25.01	PK	Hor
6*	16028.0000	52.28	-3.63	48.65	74.00	-25.35	PK	Hor

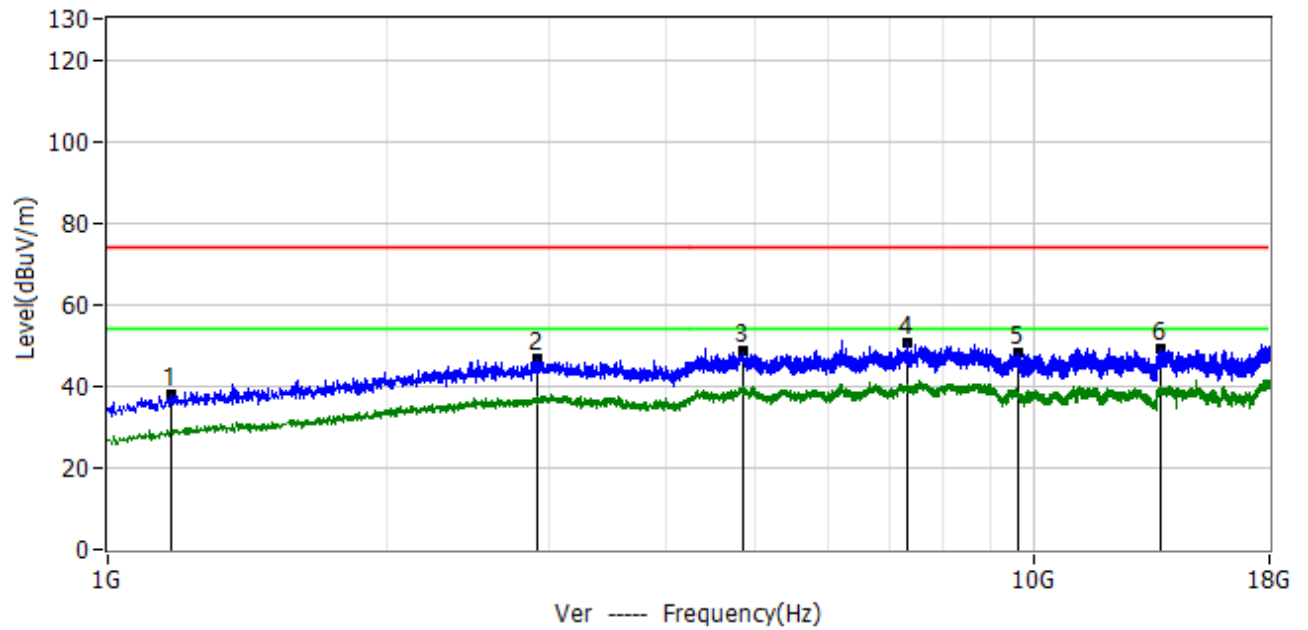
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2442	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1172.1000	61.21	-23.44	37.77	74.00	-36.23	PK	Ver
2*	2908.2000	55.14	-8.49	46.65	74.00	-27.35	PK	Ver
3*	4852.6000	54.34	-5.89	48.45	74.00	-25.55	PK	Ver
4*	7300.6000	57.56	-7.03	50.53	74.00	-23.47	PK	Ver
5*	9610.5000	55.33	-7.20	48.13	74.00	-25.87	PK	Ver
6*	13745.7000	54.32	-4.91	49.41	74.00	-24.59	PK	Ver

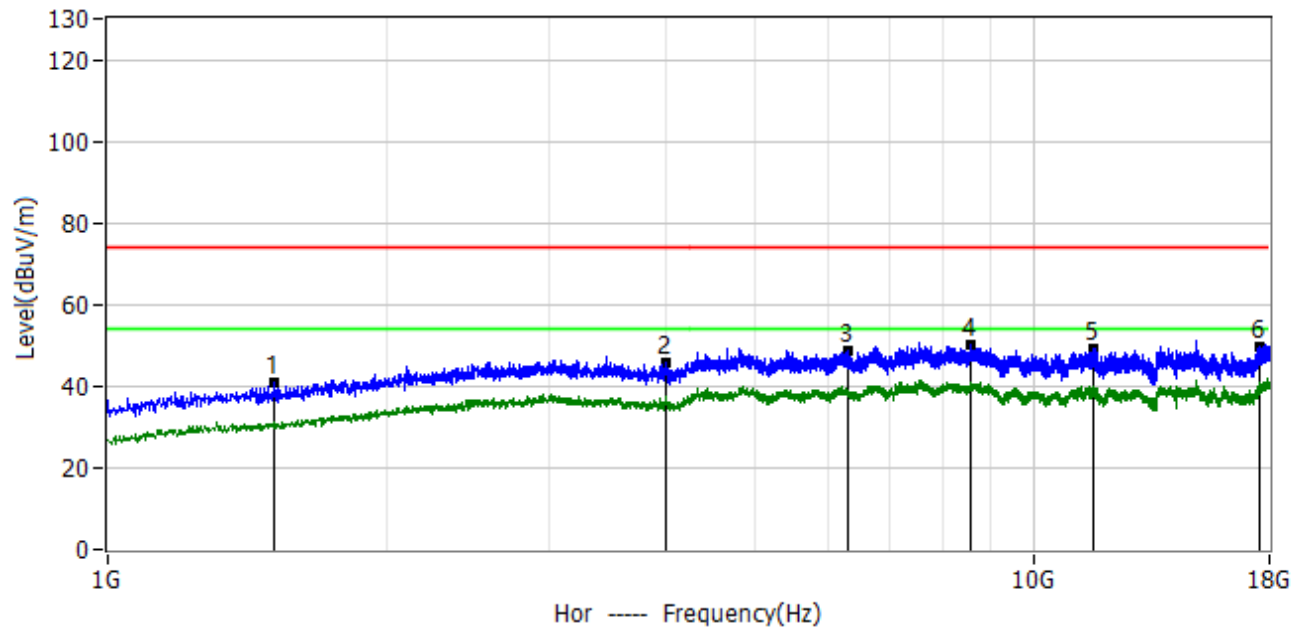
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2452	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1510.0000	61.23	-20.31	40.92	74.00	-33.08	PK	Hor
2*	4000.5000	53.22	-7.69	45.53	74.00	-28.47	PK	Hor
3*	6297.6000	56.46	-7.69	48.77	74.00	-25.23	PK	Hor
4*	8569.2000	57.80	-7.42	50.38	74.00	-23.62	PK	Hor
5*	11635.6000	54.02	-4.99	49.03	74.00	-24.97	PK	Hor
6*	17579.2000	53.41	-3.98	49.43	74.00	-24.57	PK	Hor

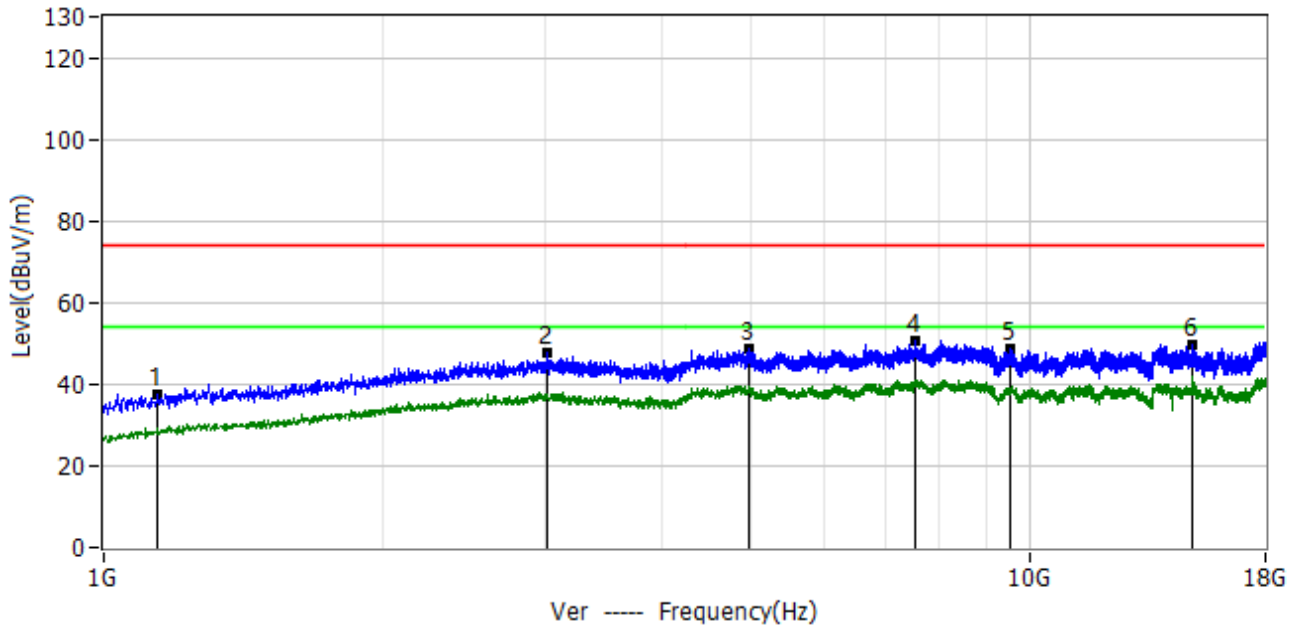
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-11
Test Mode: TX 802.11n40 2452	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1142.4000	61.41	-23.77	37.64	74.00	-36.36	PK	Ver
2*	3008.1000	55.67	-8.12	47.55	74.00	-26.45	PK	Ver
3*	4971.6000	54.81	-5.99	48.82	74.00	-25.18	PK	Ver
4*	7519.5000	57.57	-7.03	50.54	74.00	-23.46	PK	Ver
5*	9555.2000	55.73	-7.18	48.55	74.00	-25.45	PK	Ver
6*	14974.0000	53.66	-3.92	49.74	74.00	-24.26	PK	Ver

Note: Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions from 18 to 26.5GHz have been reported.

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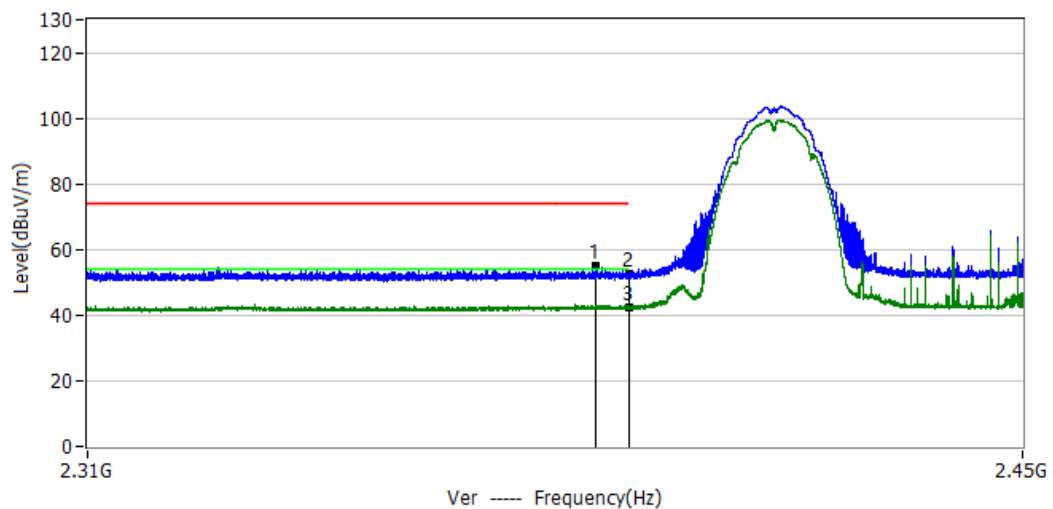
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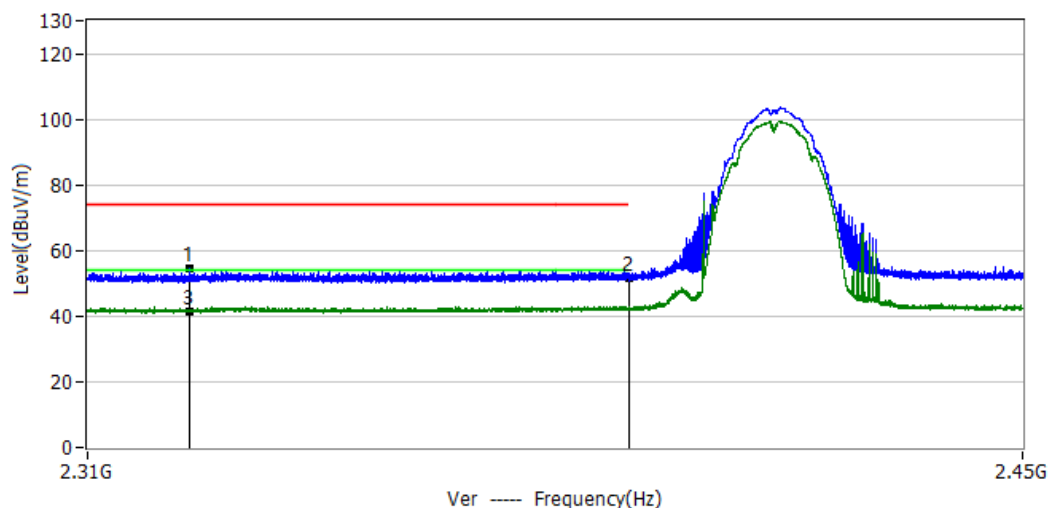
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Radiated Band Edge

Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: DC 5V	Test Data: 2025-10-11
Test Mode: 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2385.0000	18.37	36.43	54.80	74.00	-19.20	PK	Ver
2*	2390.0000	16.14	36.46	52.60	74.00	-21.40	PK	Ver
3*	2390.0000	5.84	36.46	42.30	54.00	-11.70	AV	Ver



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2324.9000	18.39	36.04	54.43	74.00	-19.57	PK	Ver
2*	2390.0000	14.94	36.46	51.40	74.00	-22.60	PK	Ver
3*	2324.9000	5.56	36.04	41.60	54.00	-12.40	AV	Ver

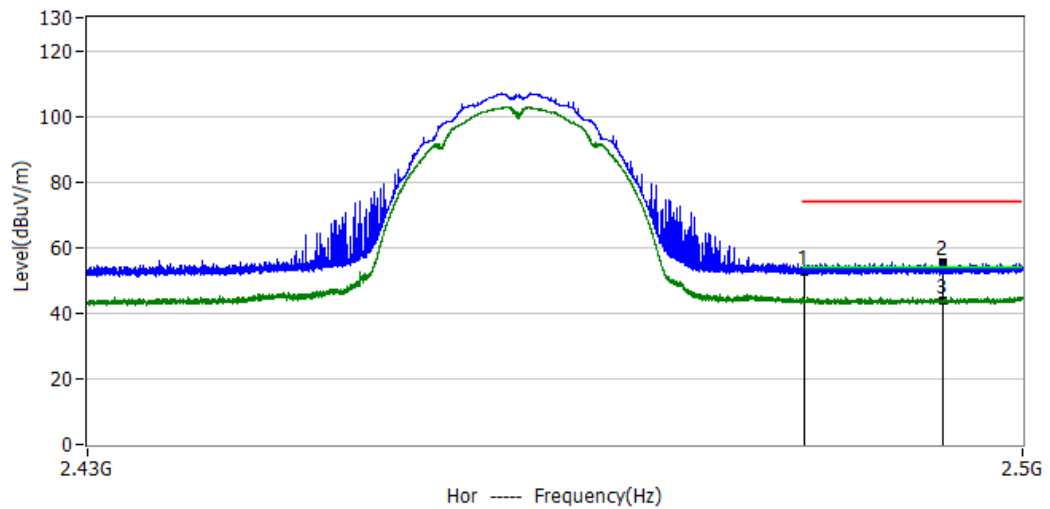
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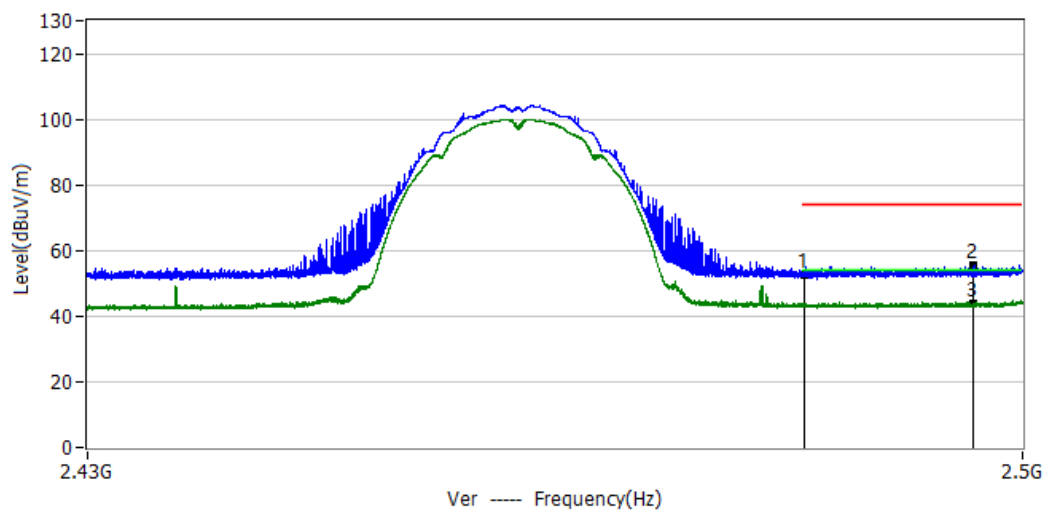
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: DC 5V	Test Data: 2025-10-11
Test Mode: 802.11b 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	15.50	37.20	52.70	74.00	-21.30	PK	Hor
2*	2494.0000	18.01	37.32	55.33	74.00	-18.67	PK	Hor
3*	2494.0000	6.48	37.32	43.80	54.00	-10.20	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	15.50	37.20	52.70	74.00	-21.30	PK	Ver
2*	2496.3000	18.18	37.35	55.53	74.00	-18.47	PK	Ver
3*	2496.3000	6.25	37.35	43.60	54.00	-10.40	AV	Ver

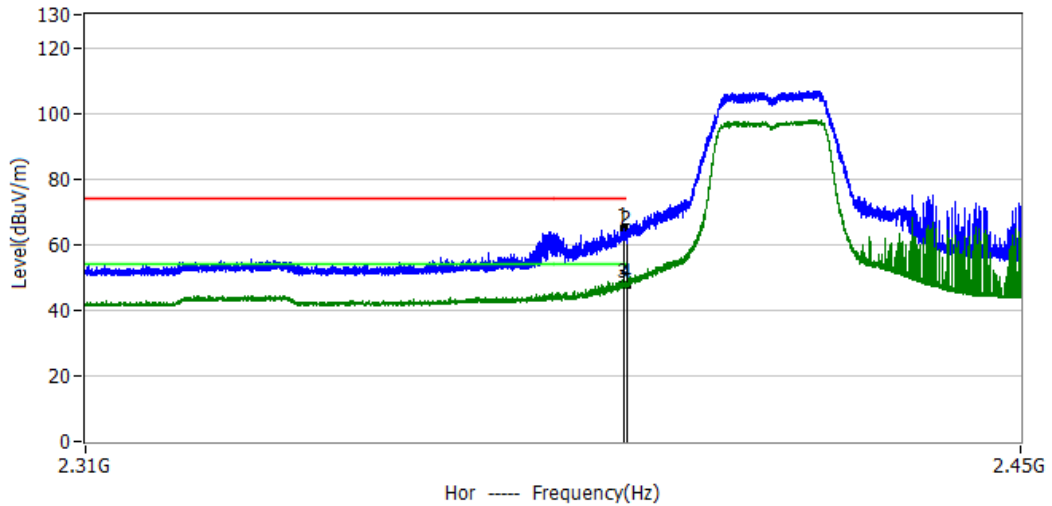
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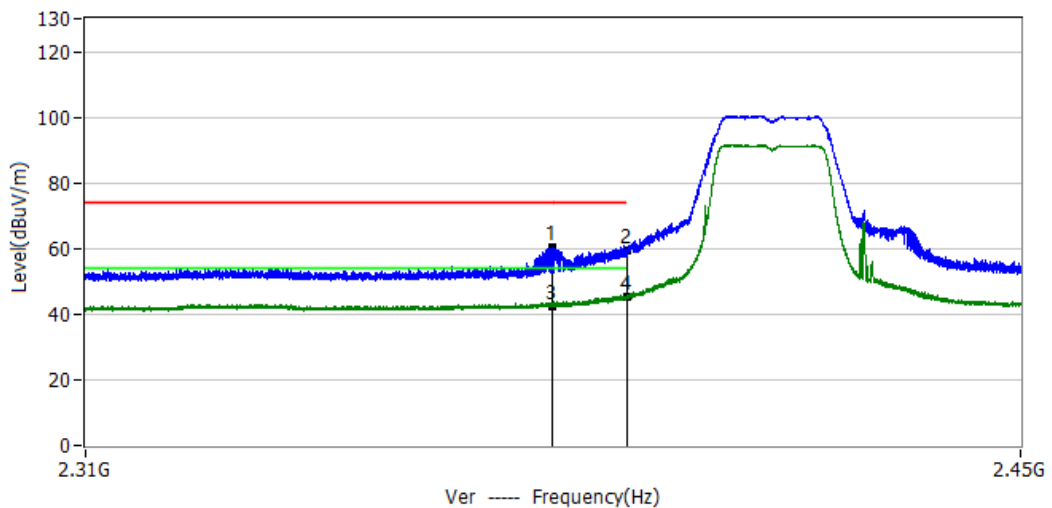
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: DC 5V	Test Data: 2025-10-11
Test Mode: 802.11g 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2389.7000	28.09	36.46	64.55	74.00	-9.45	PK	Hor
2*	2390.0000	27.44	36.46	63.90	74.00	-10.10	PK	Hor
3*	2389.7000	11.04	36.46	47.50	54.00	-6.50	AV	Hor
4*	2390.0000	11.24	36.46	47.70	54.00	-6.30	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2378.9000	23.85	36.40	60.25	74.00	-13.75	PK	Ver
2*	2390.0000	22.74	36.46	59.20	74.00	-14.80	PK	Ver
3*	2378.9000	6.10	36.40	42.50	54.00	-11.50	AV	Ver
4*	2390.0000	8.84	36.46	45.30	54.00	-8.70	AV	Ver

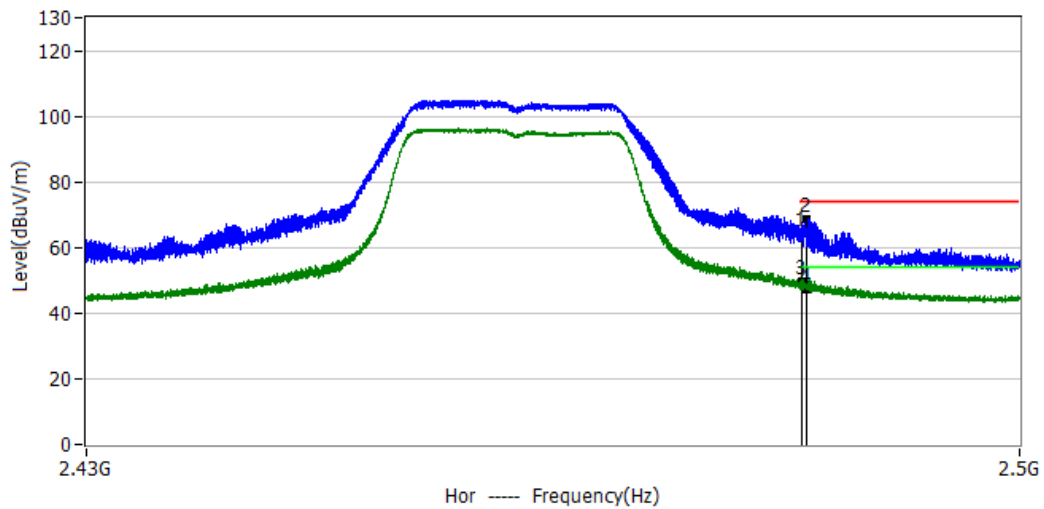
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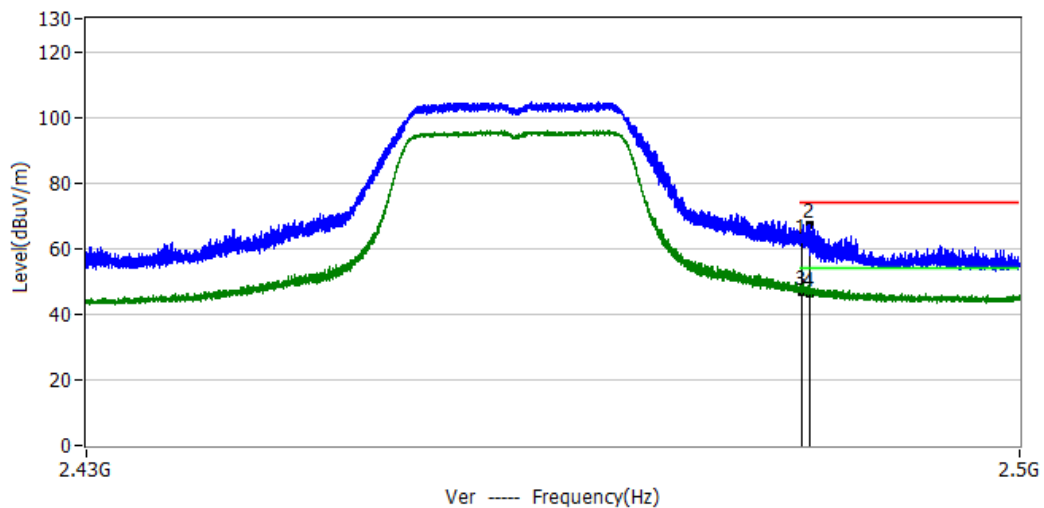
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: DC 5V	Test Data: 2025-10-11
Test Mode: 802.11g 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	27.20	37.20	64.40	74.00	-9.60	PK	Hor
2*	2483.9000	31.37	37.20	68.57	74.00	-5.43	PK	Hor
3*	2483.5000	12.50	37.20	49.70	54.00	-4.30	AV	Hor
4*	2483.9000	10.20	37.20	47.40	54.00	-6.60	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	24.90	37.20	62.10	74.00	-11.90	PK	Ver
2*	2484.1000	29.91	37.20	67.11	74.00	-6.89	PK	Ver
3*	2483.5000	9.60	37.20	46.80	54.00	-7.20	AV	Ver
4*	2484.1000	8.90	37.20	46.10	54.00	-7.90	AV	Ver

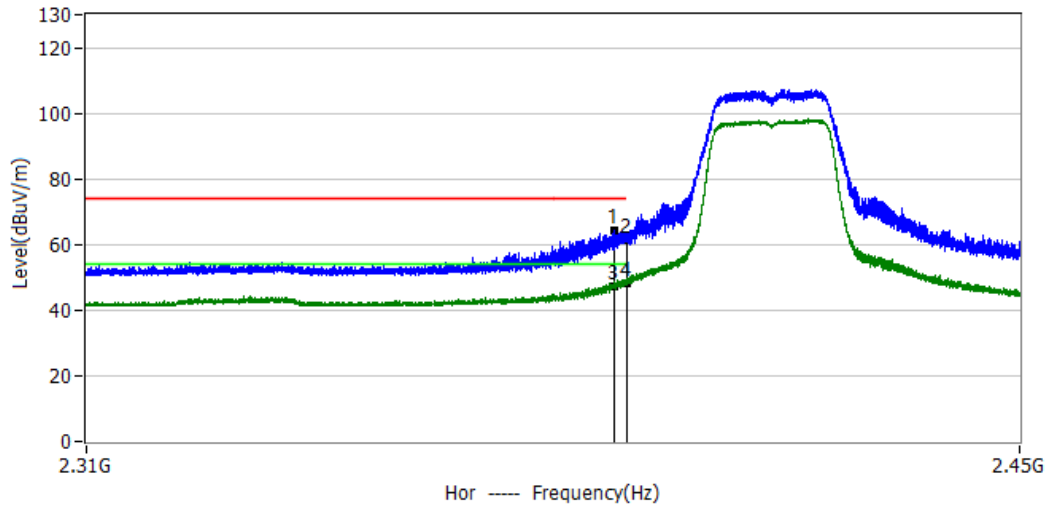
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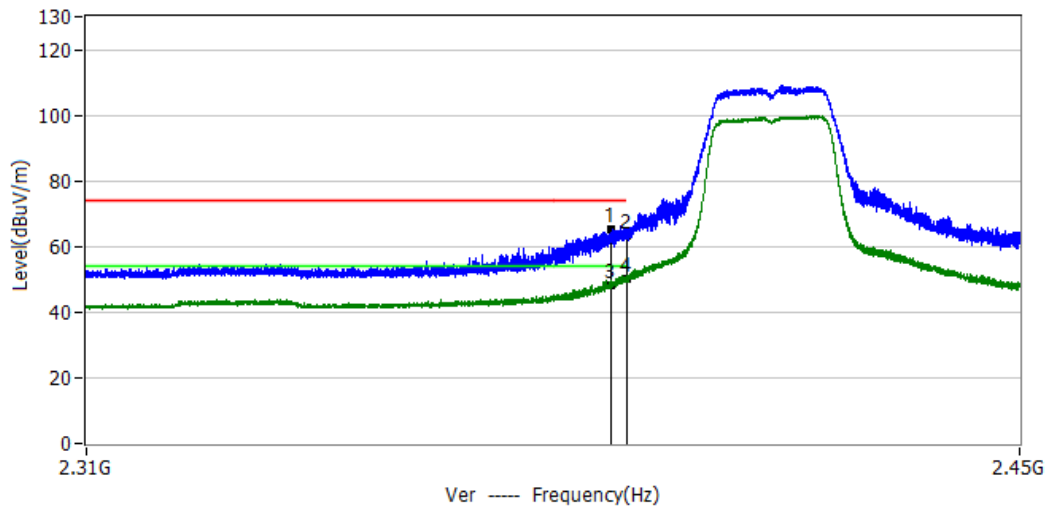
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 29.5°C
M/N: NW990-US	Humidity: 61%RH
Test Voltage: DC 5V	Test Data: 2025-10-13
Test Mode: 802.11n20 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2388.1000	27.65	36.45	64.10	74.00	-9.90	PK	Hor
2*	2390.0000	24.84	36.46	61.30	74.00	-12.70	PK	Hor
3*	2388.1000	10.75	36.45	47.20	54.00	-6.80	AV	Hor
4*	2390.0000	11.94	36.46	48.40	54.00	-5.60	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2387.8000	28.69	36.45	65.14	74.00	-8.86	PK	Ver
2*	2390.0000	27.04	36.46	63.50	74.00	-10.50	PK	Ver
3*	2387.8000	11.85	36.45	48.30	54.00	-5.70	AV	Ver
4*	2390.0000	13.84	36.46	50.30	54.00	-3.70	AV	Ver

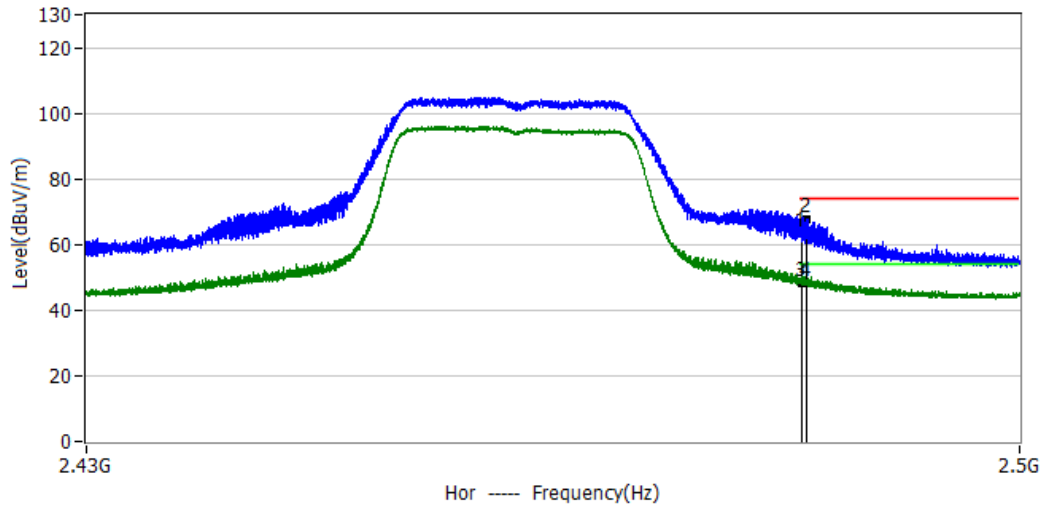
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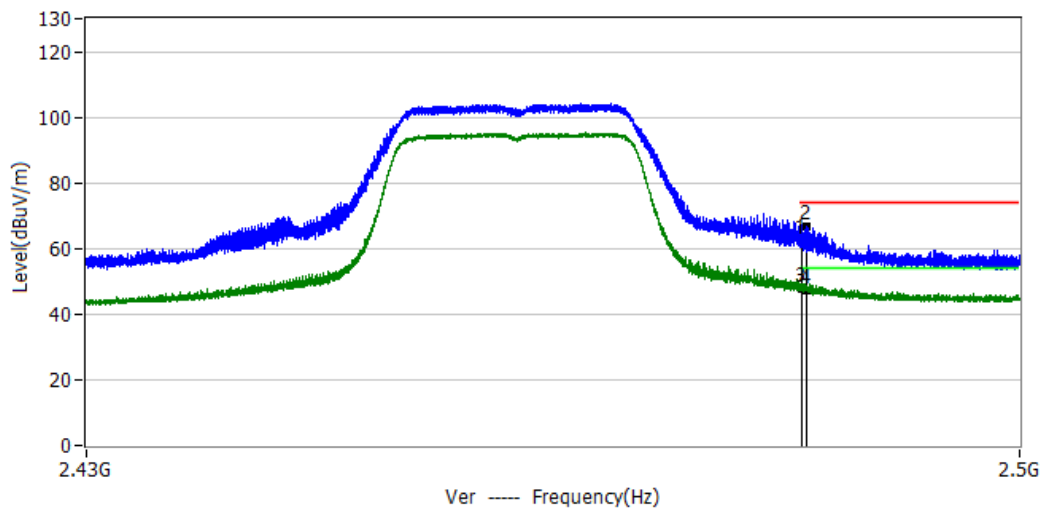
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 26°C
M/N: NW990-US	Humidity: 45%RH
Test Voltage: DC 5V	Test Data: 2025-10-11
Test Mode: 802.11n20 2462	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	26.00	37.20	63.20	74.00	-10.80	PK	Hor
2*	2483.8000	30.59	37.20	67.79	74.00	-6.21	PK	Hor
3*	2483.5000	11.10	37.20	48.30	54.00	-5.70	AV	Hor
4*	2483.8000	11.00	37.20	48.20	54.00	-5.80	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	25.30	37.20	62.50	74.00	-11.50	PK	Ver
2*	2483.9000	29.69	37.20	66.89	74.00	-7.11	PK	Ver
3*	2483.5000	10.30	37.20	47.50	54.00	-6.50	AV	Ver
4*	2483.9000	10.10	37.20	47.30	54.00	-6.70	AV	Ver

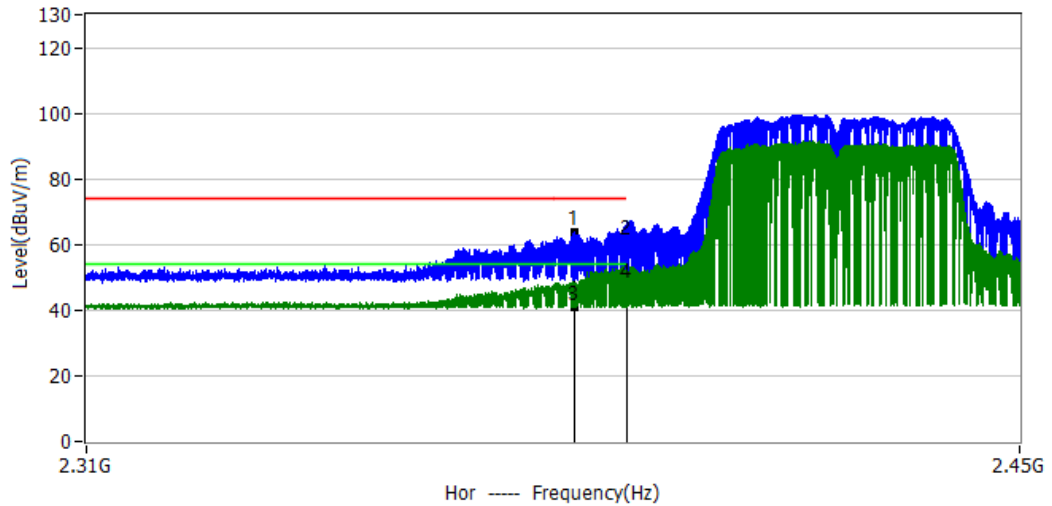
Appendix B

Produkte
Products

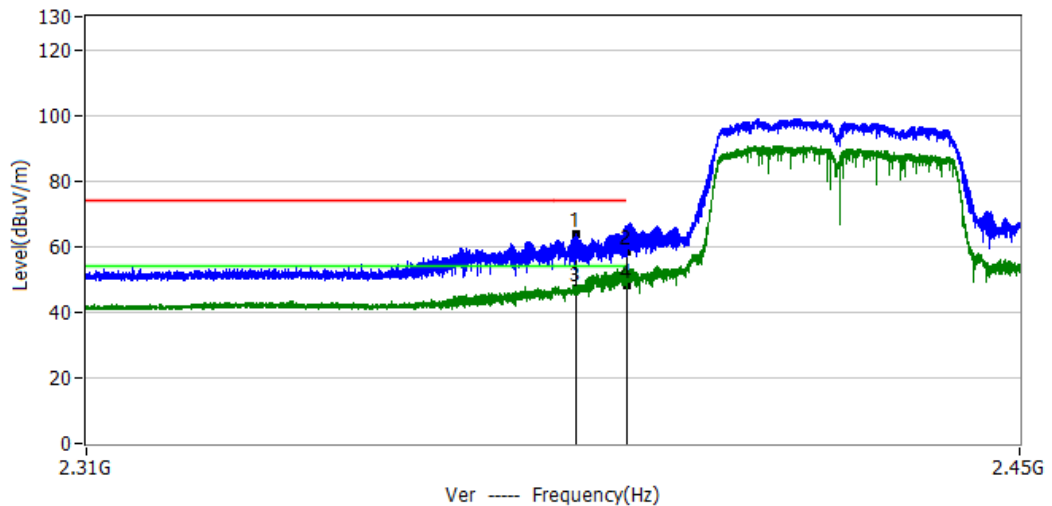
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 29.5°C
M/N: NW990-US	Humidity: 61%RH
Test Voltage: DC 5V	Test Data: 2025-10-13
Test Mode: 802.11n40 2422	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2382.1000	27.50	36.42	63.92	74.00	-10.08	PK	Hor
2*	2390.0000	24.34	36.46	60.80	74.00	-13.20	PK	Hor
3*	2382.1000	4.68	36.42	41.10	54.00	-12.90	AV	Hor
4*	2390.0000	11.34	36.46	47.80	54.00	-6.20	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2382.4000	27.24	36.42	63.66	74.00	-10.34	PK	Ver
2*	2390.0000	22.04	36.46	58.50	74.00	-15.50	PK	Ver
3*	2382.4000	10.78	36.42	47.20	54.00	-6.80	AV	Ver
4*	2390.0000	11.74	36.46	48.20	54.00	-5.80	AV	Ver

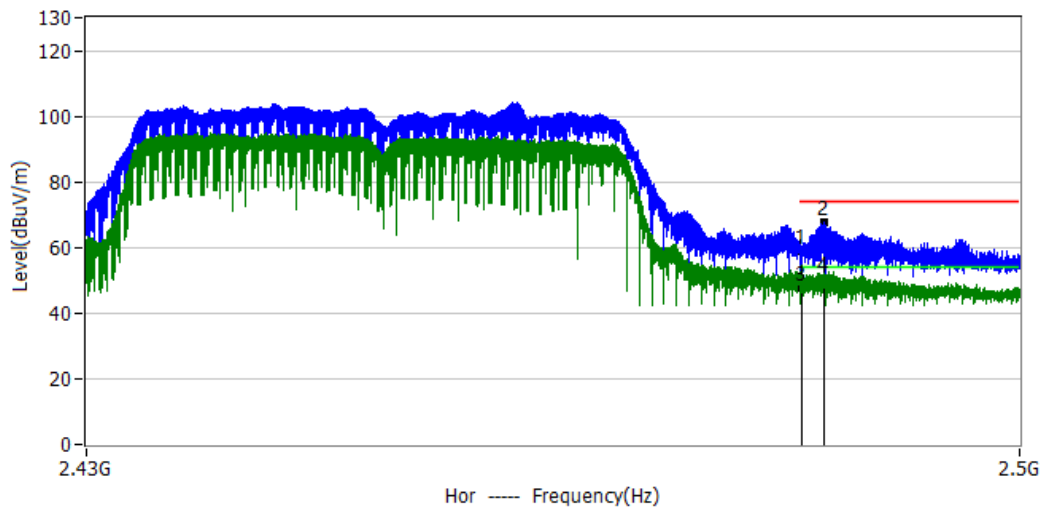
Appendix B

Produkte
Products

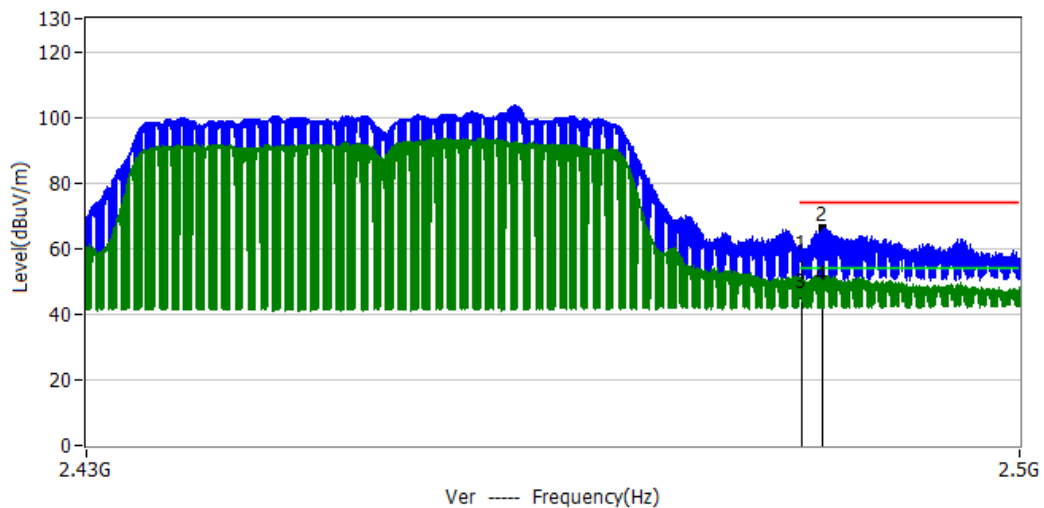
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Project: LGT25H086	Test Engineer: LiuH
EUT: LED fixed luminaire	Temperature: 29.5°C
M/N: NW990-US	Humidity: 61%RH
Test Voltage: DC 5V	Test Data: 2025-10-13
Test Mode: 802.11n40 2452	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	21.60	37.20	58.80	74.00	-15.20	PK	Hor
2*	2485.2000	30.25	37.22	67.47	74.00	-6.53	PK	Hor
3*	2483.5000	10.40	37.20	47.60	54.00	-6.40	AV	Hor
4*	2485.2000	13.28	37.22	50.50	54.00	-3.50	AV	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	20.10	37.20	57.30	74.00	-16.70	PK	Ver
2*	2485.1000	29.07	37.22	66.29	74.00	-7.71	PK	Ver
3*	2483.5000	8.50	37.20	45.70	54.00	-8.30	AV	Ver
4*	2485.1000	10.88	37.22	48.10	54.00	-5.90	AV	Ver