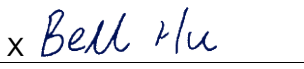


Prüfbericht-Nr.: Test report no.:	CN25WX6V 002	Auftrags-Nr.: Order no.:	168573267	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-08-21	
Auftraggeber: Client:	Aputure Imaging Industries Co., Ltd. Floor 2-4, Building 21, Longjun Industrial Zone, Longping District, Dalang Street, Longhua, Shenzhen, Guangdong 518110, China			
Prüfgegenstand: Test item:	LED Panel Video Light			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Nova II 2x1			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2025-08-22	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004077936-001			
Prüfzeitraum: Testing period:	2025-08-22 - 2025-09-24			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2025-09-26	Ausstellungsdatum: Issue date:		2025-09-26
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AABZ-NOVAII IC: 28850-NOVAII HVIN: NOVAII			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt 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
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. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüflabors 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. <i>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>
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3	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>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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 115:2023, 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>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 115:2023, 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>

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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 CONDUCTED EMISSION ON AC MAINS

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: Test Results of Bluetooth LE

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

A2LA Certificate Number: 5162.01

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2024-09-26	2025-09-25
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2024-09-26	2025-09-25
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2024-09-26	2025-09-25
DC power supply	Keysight	E3642A	MY61276100	2024-09-26	2025-09-25
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2024-09-26	2025-09-25
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2024-09-26	2025-09-25
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27

(30 MHz - 7 GHz)					
Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2026-06-18
Artificial Mains Network	R&S	ENV432	101546	2026-02-09
LISN ENV432-Receiver cable in SR2	Calibration frequency range: 9 kHz~30 MHz			2025-12-20
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

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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 (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 device is a LED Panel Video light, which supports Bluetooth low energy wireless technologies.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	LED Panel Video light
Type Designation:	Nova II 2x1
FCC ID:	2AABZ-NOVAII
IC:	28850-NOVAII
HVIN:	NOVAII
Operating Voltage:	AC 120V/60Hz
Operating Temperature Range:	-40 °C ~ +80 °C
Technical Specification of Bluetooth LE	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2 MHz
Data rate	1Mbps, 2Mbps
Antenna Type:	PIFA Antenna
Antenna Gain:	3.32 dBi

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, BLE Communicating
- 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
- FCC/IC Label and Location Info

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 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC.

Table 5: Test channel and frequency of Bluetooth LE

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 2402MHz, 2440MHz, 2480MHz	--

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A

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)

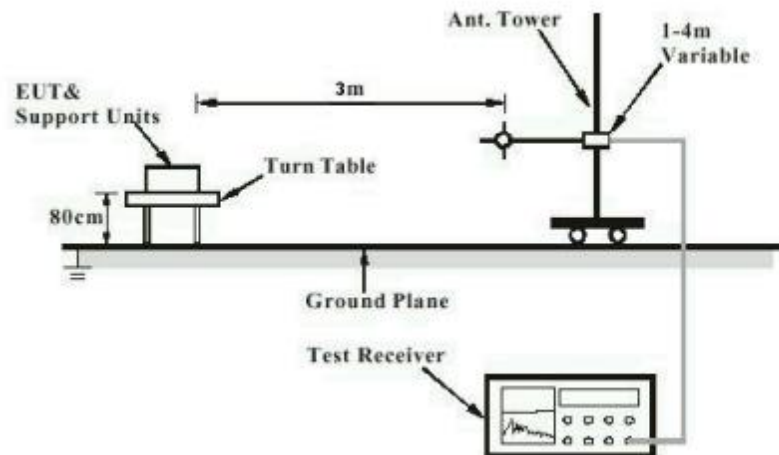


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

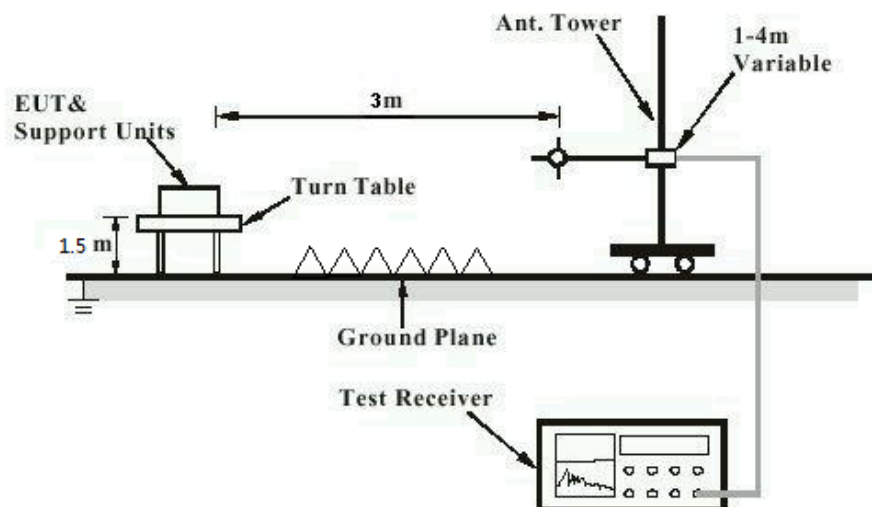


Diagram of Measurement Configuration for Mains Conduction Measurement

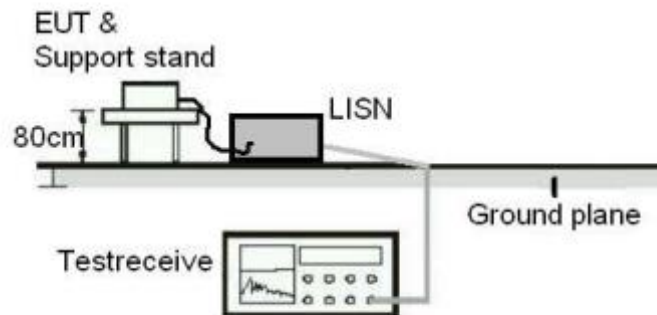
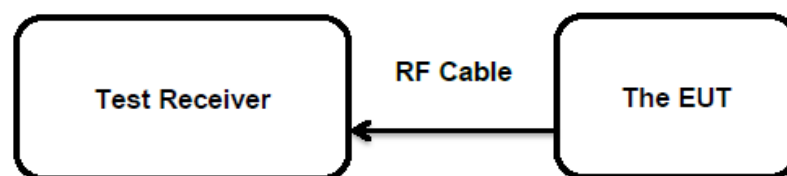


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has a PIFA antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

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

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	: FCC Part 15.247(b)(3) RSS-247 Section 5.4(d)
Basic standard	: ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-22 - 2025-09-26
Input voltage	: AC 120V/60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

Table 7: Test Result of Maximum Peak Conducted Output Power

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth (Low Energy)	1 Mbps	2402	4.1	0.0026	< 1.0
		2440	4.6	0.0029	
		2480	6.2	0.0042	
	2 Mbps	2402	4.4	0.0028	
		2440	4.5	0.0028	
		2480	6.2	0.0042	
Maximum Measured Value			6.2	0.0042	
Max. e.i.r.p.=6.2dBm+3.32dBi=9.52dBm, which is less than 36dBm=4W.					

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 3.32dBi

$$\text{e.i.r.p.} = P_{(\text{Peak power})} + G$$
, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC Part 15.247(e) RSS-247 Section 5.2(b)
Basic standard	: ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-22 - 2025-09-26
Input voltage	: AC 120V/60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

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

Test standard : FCC Part 15.247(a)(2)
RSS-247 Section 5.2(a)
Basic standard : ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Limits : > 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-22 - 2025-09-26
Input voltage : AC 120V/60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.6 °C
Relative humidity : 51 %
Atmospheric pressure : 101 kPa

DTS bandwidth setup:

RBW=In the range of 1%~5% of the OBW
but not less than 100KHz.

VBW=3RBW

Detector=Peak

Trace mode=Max-hold

Sweep= No faster than coupled(auto)time

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

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

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-22 - 2025-09-26
Input voltage : AC 120V/60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.6 °C
Relative humidity : 51 %
Atmospheric pressure : 101 kPa

DTS bandwidth setup:
RBW=In the range of 1%~5% of the OBW
but not less than 100KHz.
VBW=3RBW
Detector=Peak
Trace mode=Max-hold
Sweep= No faster than coupled(auto)time
For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN25WX6V 002**
Test Report No.:Seite 19 von 22
Page 19 of 22**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Section 5.5
Basic standard	: ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Limits	: 20dB (below that in the 100kHz 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	: 2025-08-22 - 2025-09-26
Input voltage	: AC 120V/60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 51 %
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 A.

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Section 3.3
Basic standard	: ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1- 2023 for IC
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-08-22 - 2025-09-26
Input voltage	: AC 120V/60Hz
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 A.

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5.1.8 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023 for IC
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-22 - 2025-09-26
Input voltage	: AC 120V/60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 24.3 °C
Relative humidity	: 52.8 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

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

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

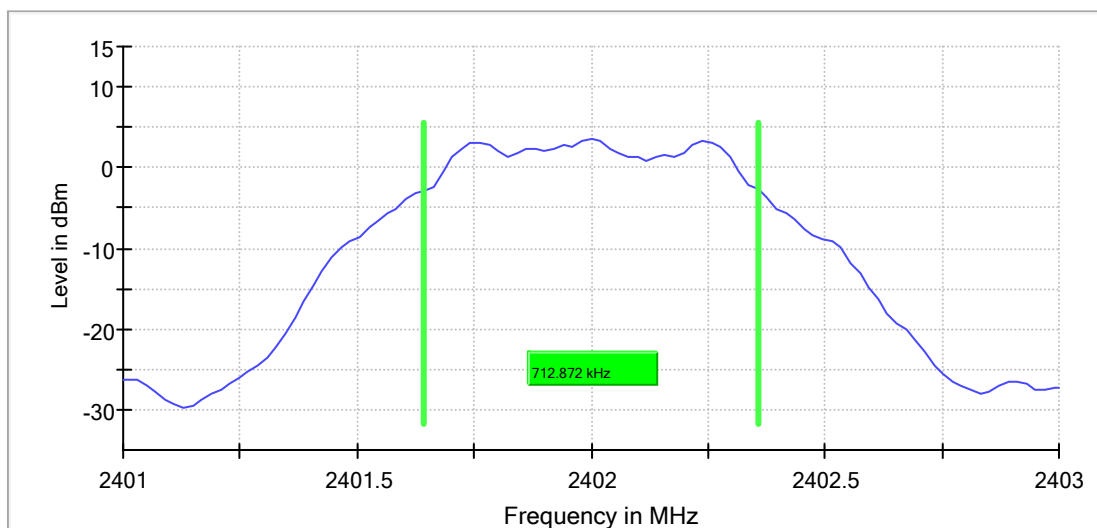
TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Limit Max (MHz)	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant1	2402	0.712872	0.500000	---	2401.643564	2402.356436	PASS
		2440	0.712872	0.500000	---	2439.643564	2440.356436	PASS
		2480	0.712872	0.500000	---	2479.643564	2480.356436	PASS
BLE_2M	Ant1	2402	1.188118	0.500000	---	2401.405941	2402.594059	PASS
		2440	1.188118	0.500000	---	2439.405941	2440.594059	PASS
		2480	1.188118	0.500000	---	2479.405941	2480.594059	PASS

Note:RBW=100KHz,VBW=300KHz

Test Graphs

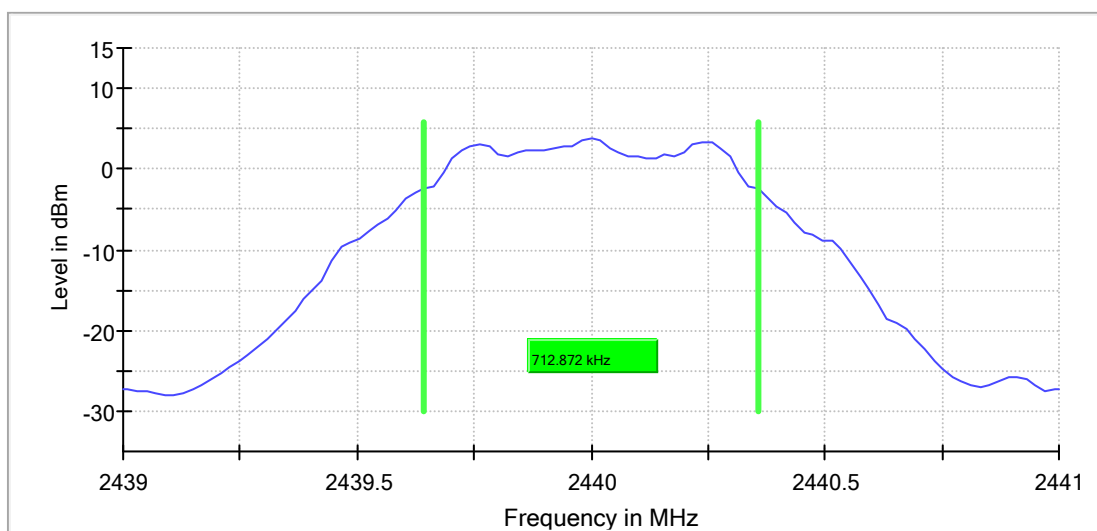
BLE_1M_Ant1_2402

6 dB Bandwidth



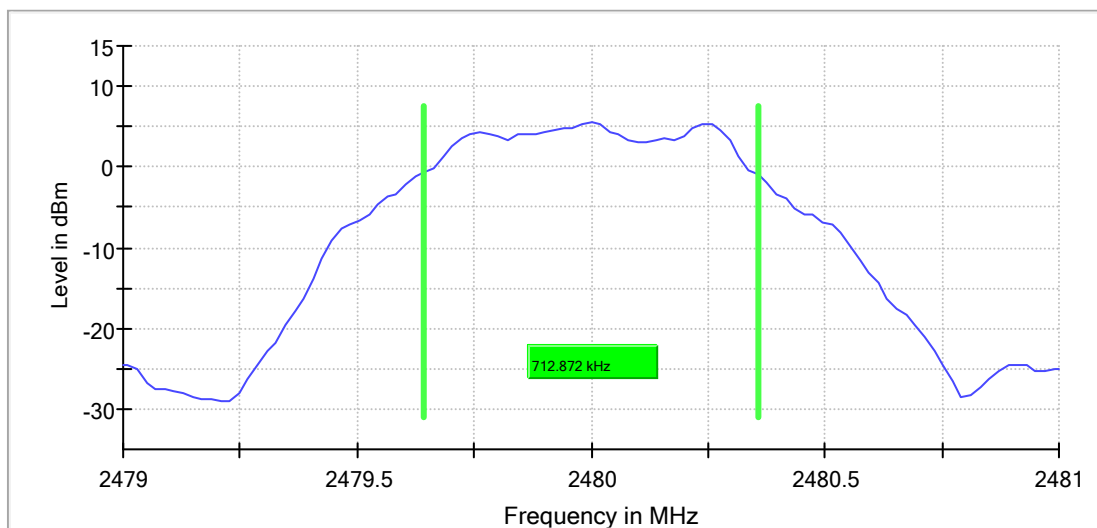
BLE_1M_Ant1_2440

6 dB Bandwidth



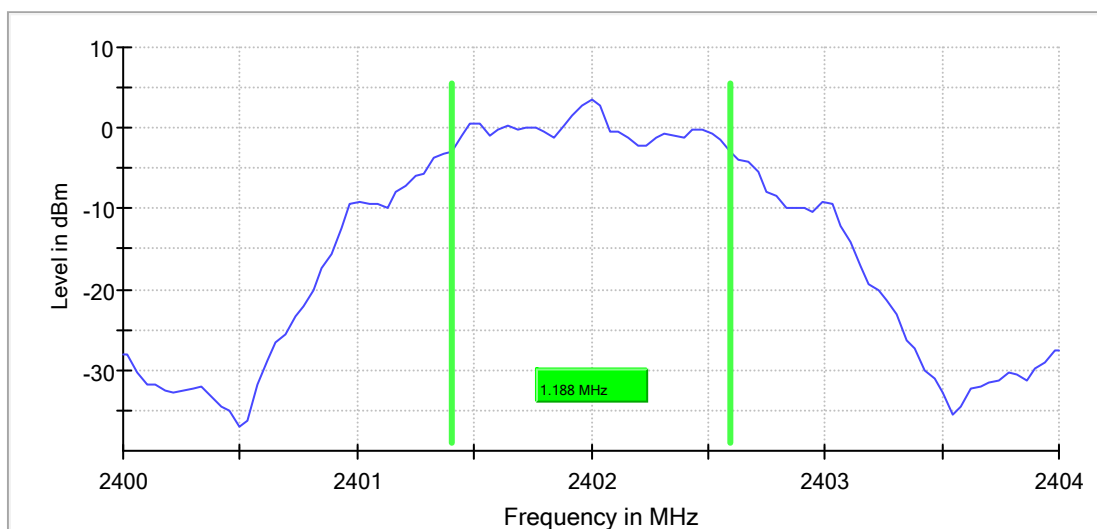
BLE_1M_Ant1_2480

6 dB Bandwidth



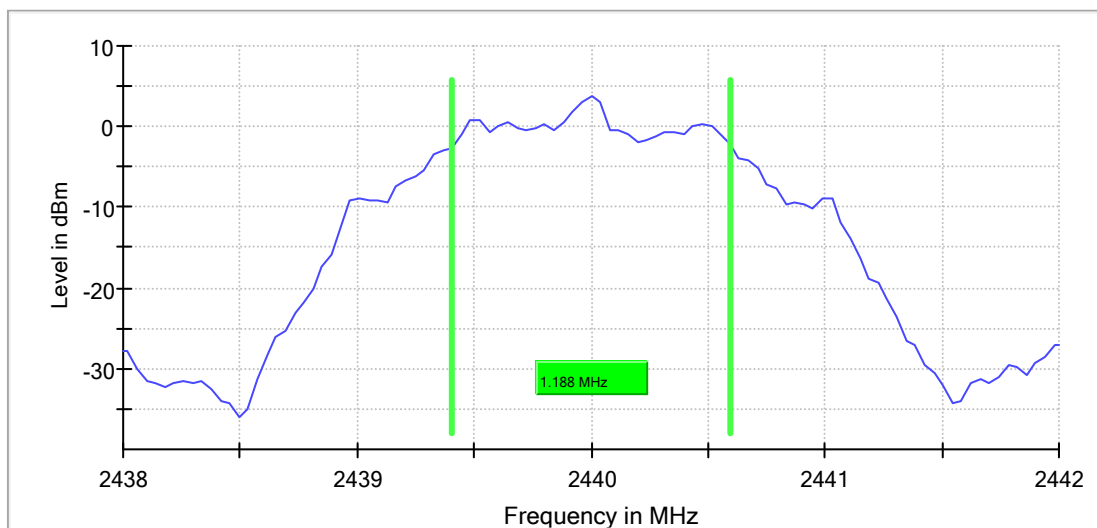
BLE_2M_Ant1_2402

6 dB Bandwidth



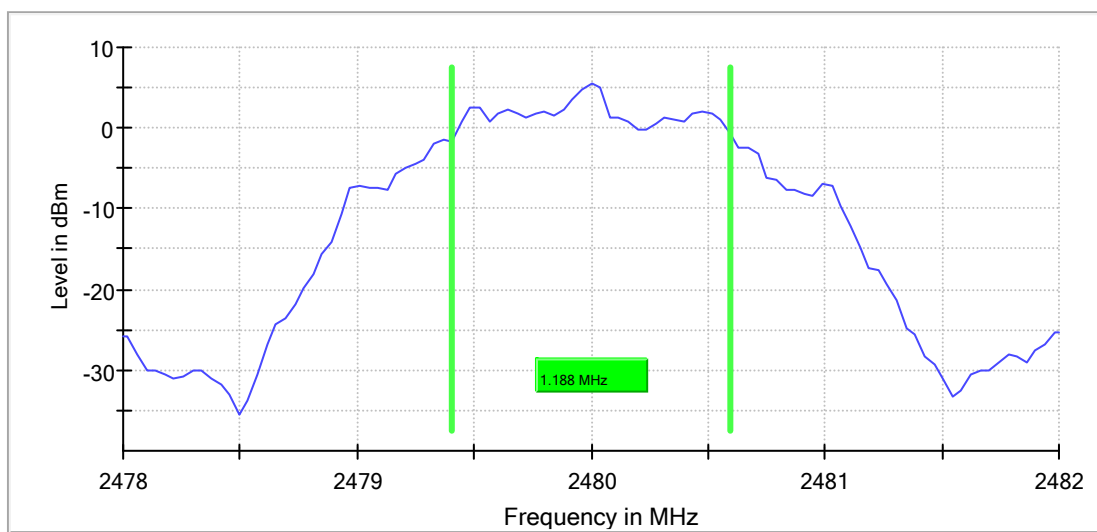
BLE 2M Ant1 2440

6 dB Bandwidth



BLE 2M Ant1 2480

6 dB Bandwidth



Appendix A.2: Test Results of 99% Bandwidth

Test Result

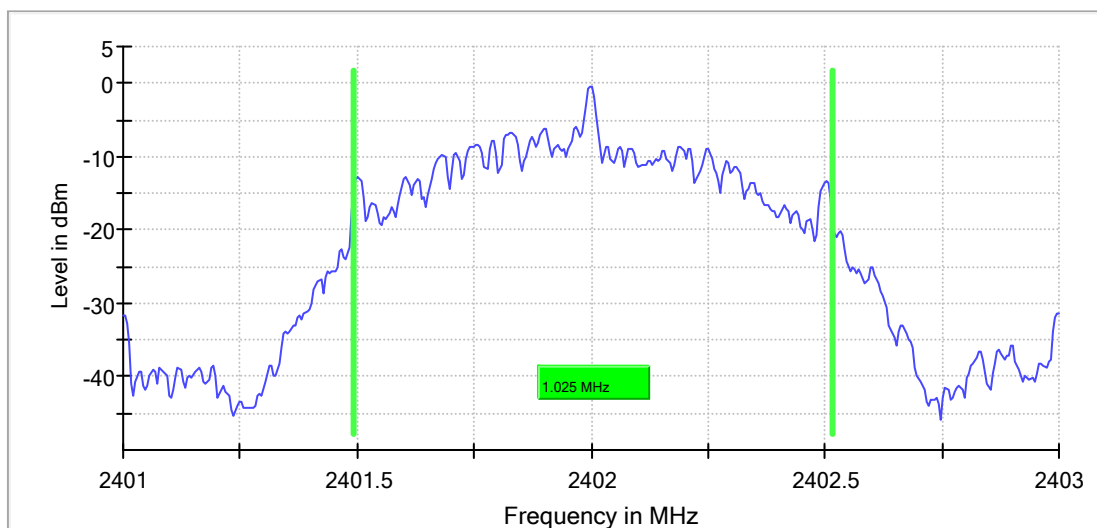
TestMode	Antenna	Channel	OCB [MHz]
BLE_1M	Ant1	2402	1.025000
		2440	1.025000
		2480	1.025000
BLE_2M	Ant1	2402	2.050000
		2440	2.050000
		2480	2.050000

Note:RBW=30KHz, VBW=100KHz

Test Graphs

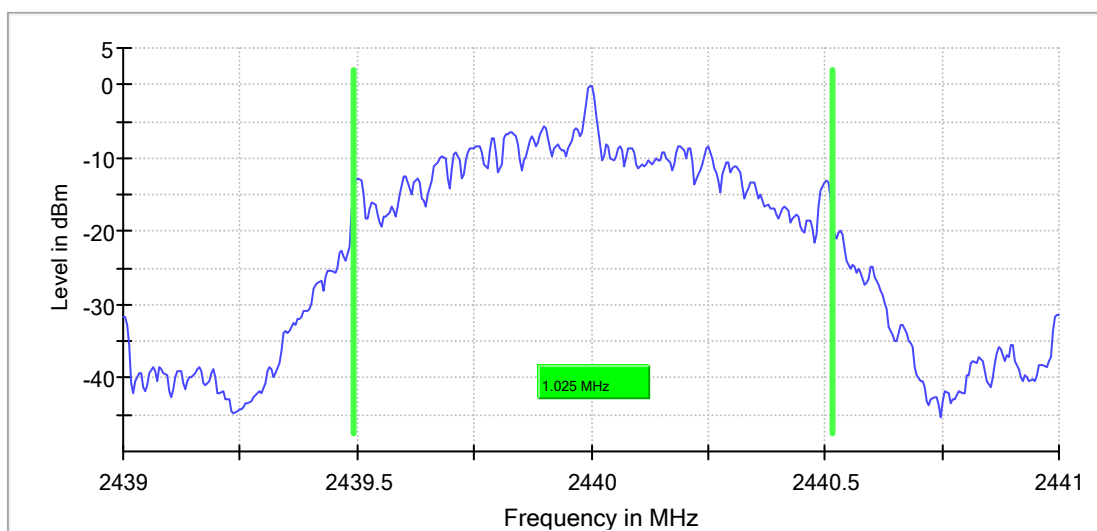
BLE_1M_Ant1_2402

99 % Bandwidth



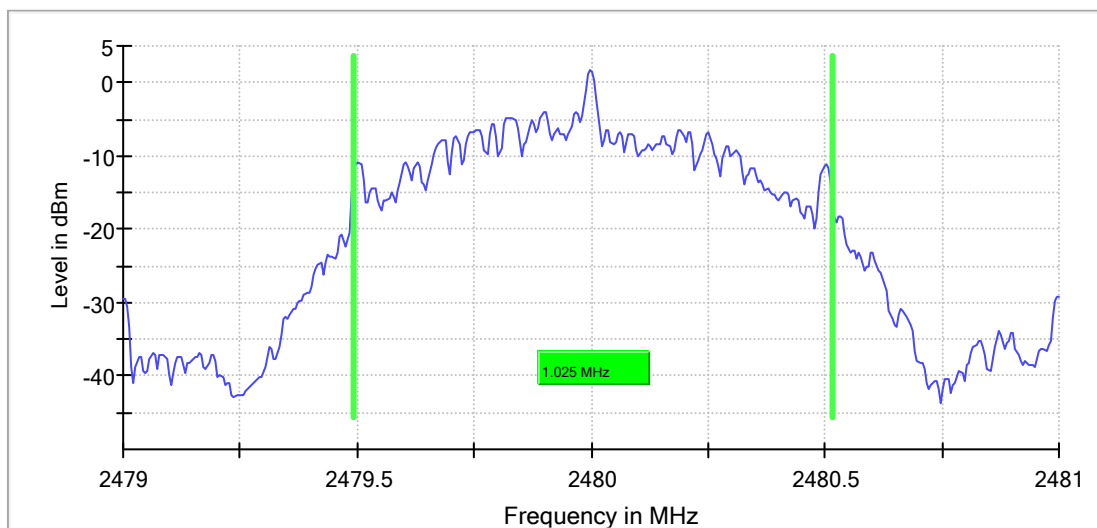
BLE_1M_Ant1_2440

99 % Bandwidth



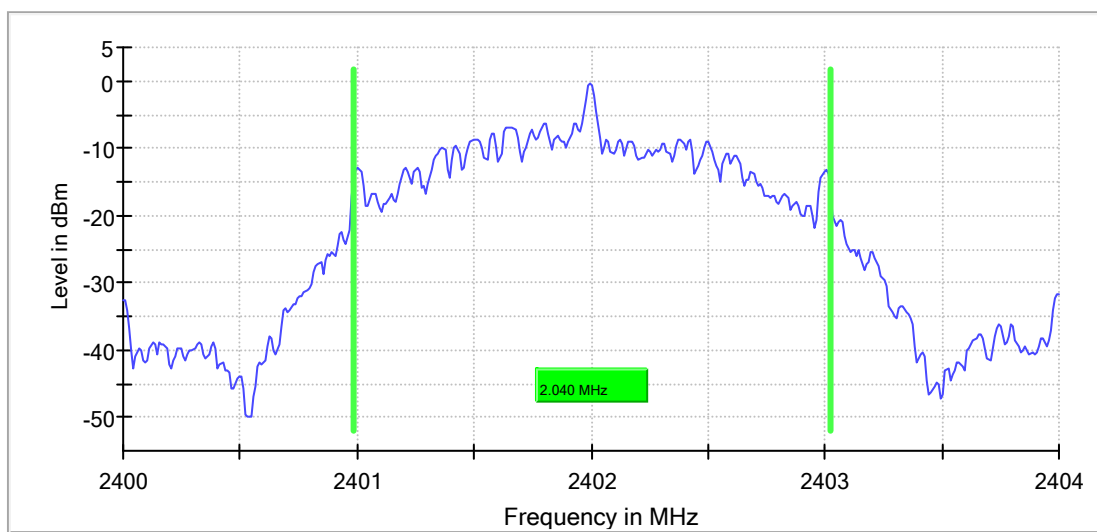
BLE_1M_Ant1_2480

99 % Bandwidth



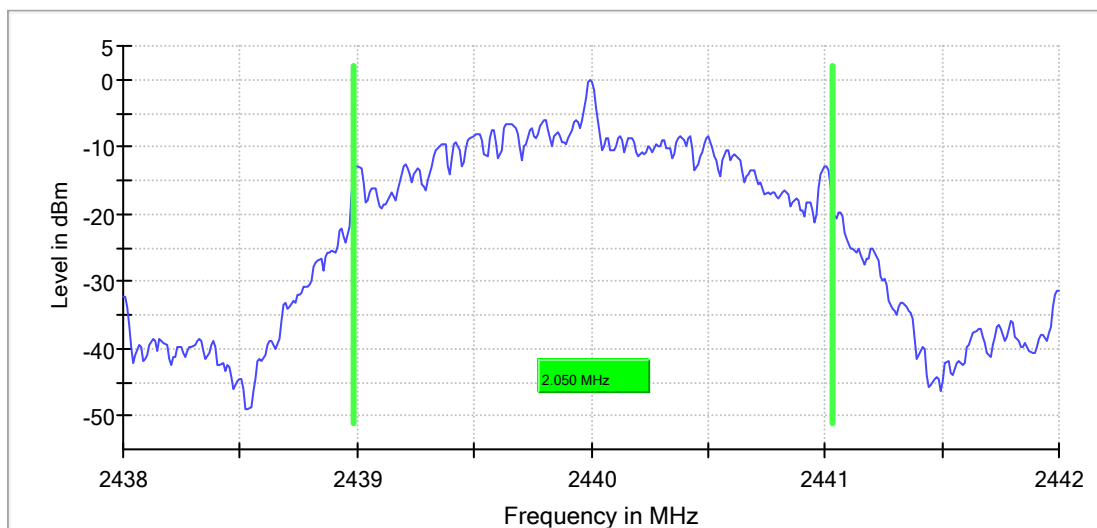
BLE_2M_Ant1_2402

99 % Bandwidth



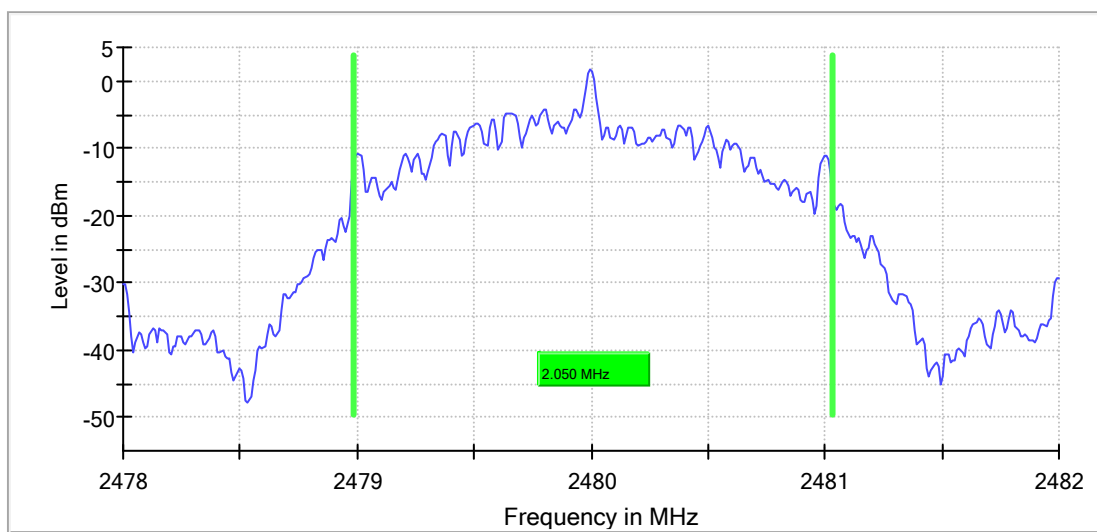
BLE_2M_Ant1_2440

99 % Bandwidth



BLE_2M_Ant1_2480

99 % Bandwidth

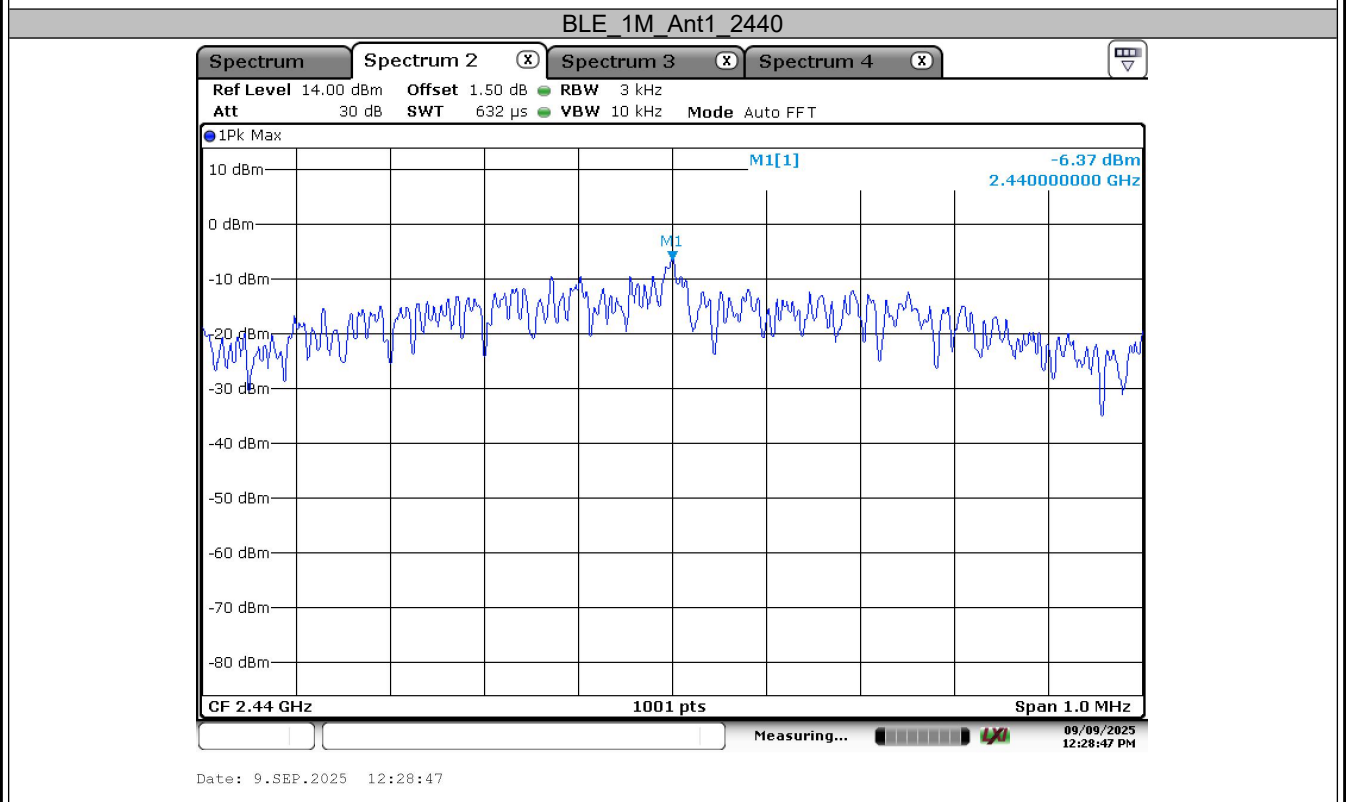
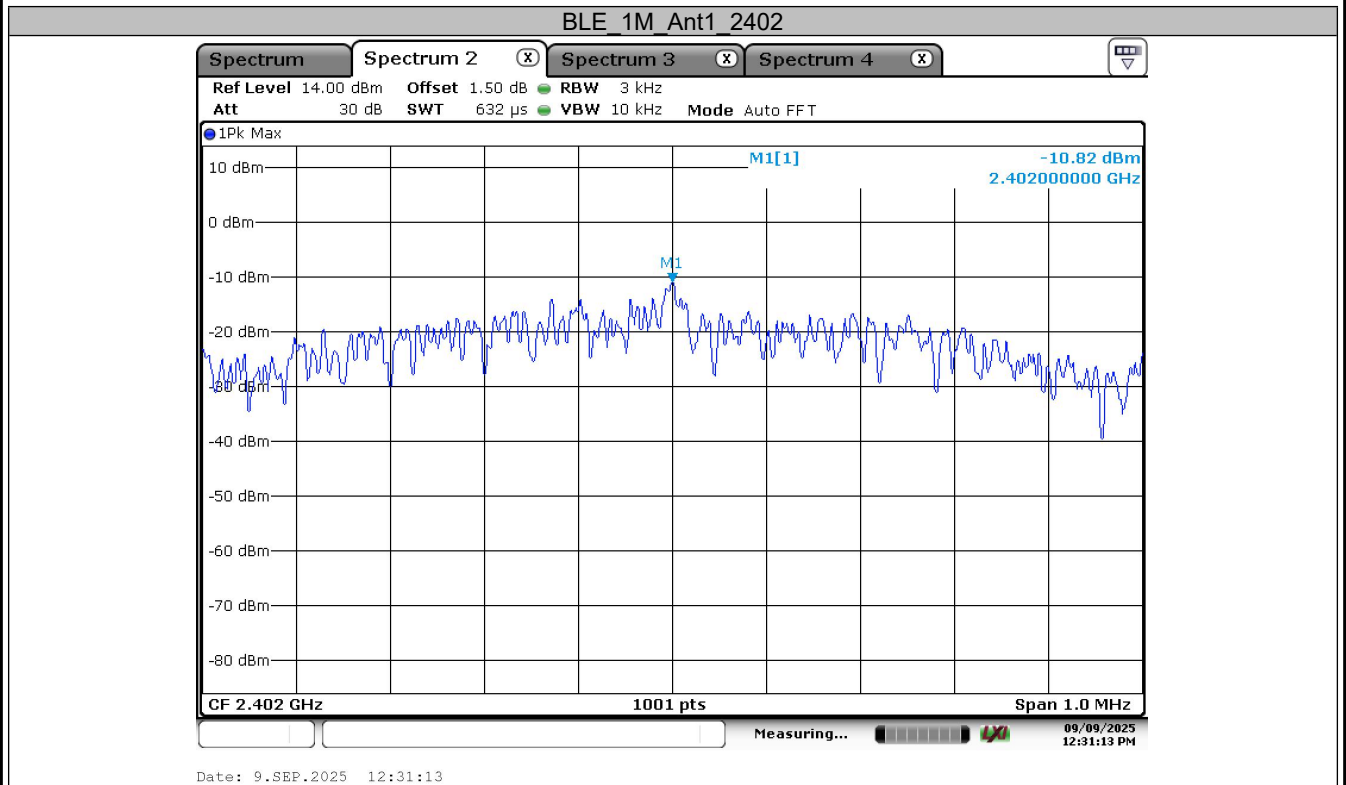


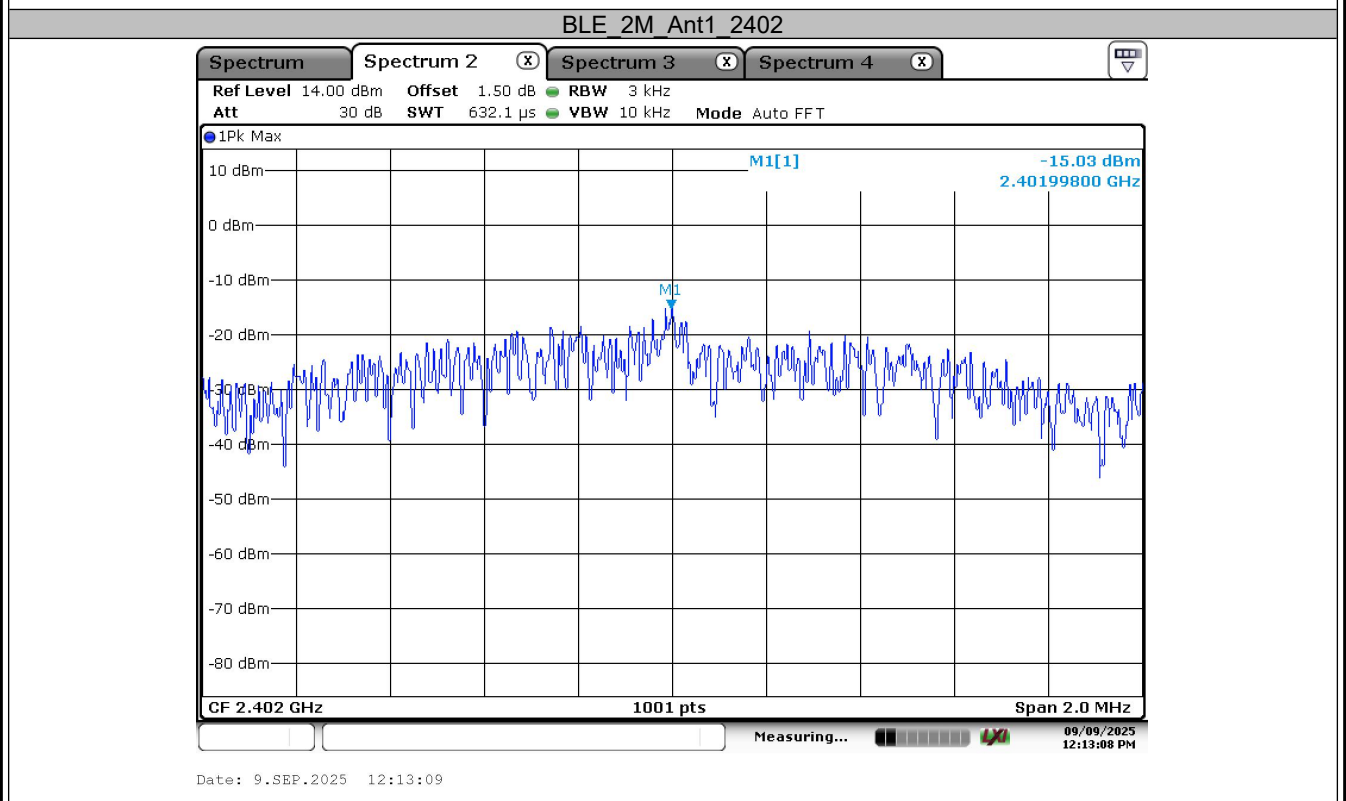
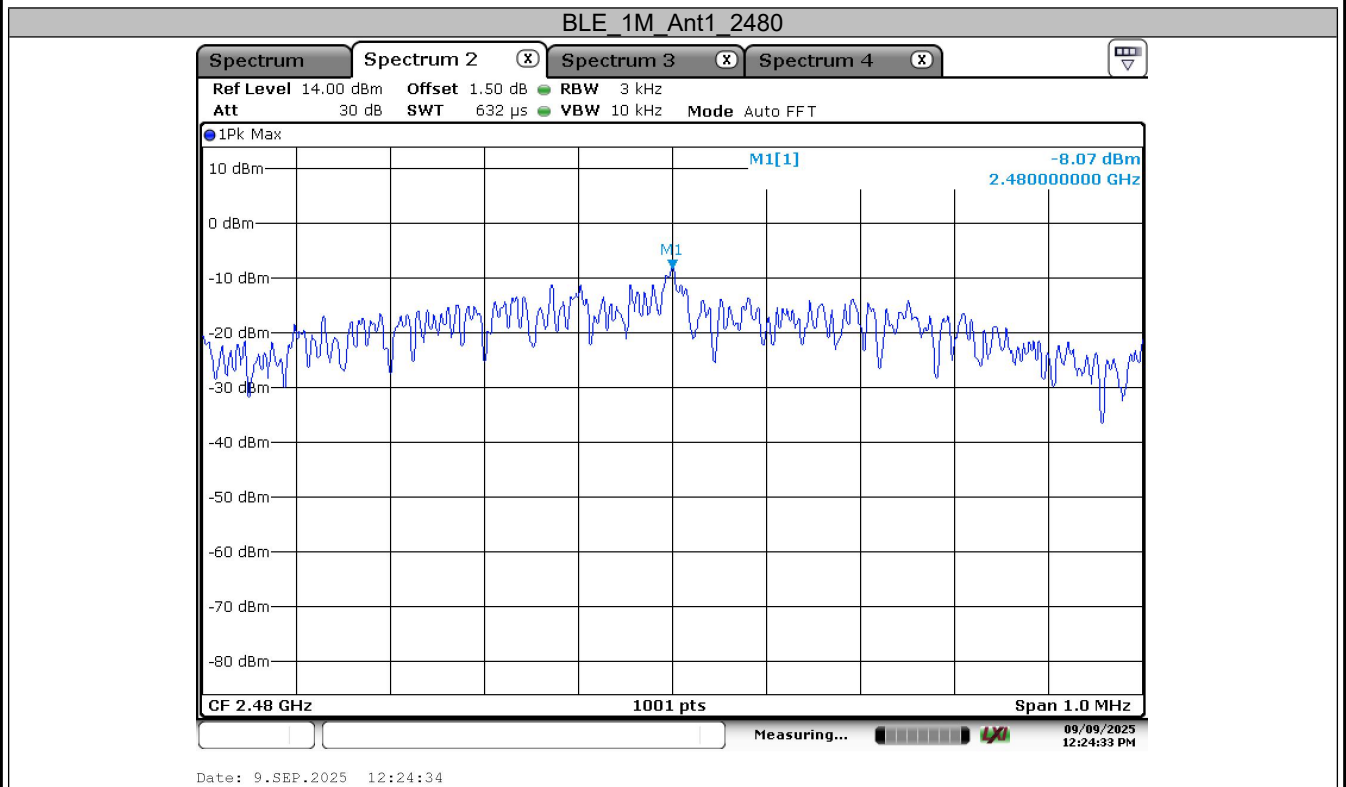
Appendix A.3: Test Results of Conducted Power Spectral Density

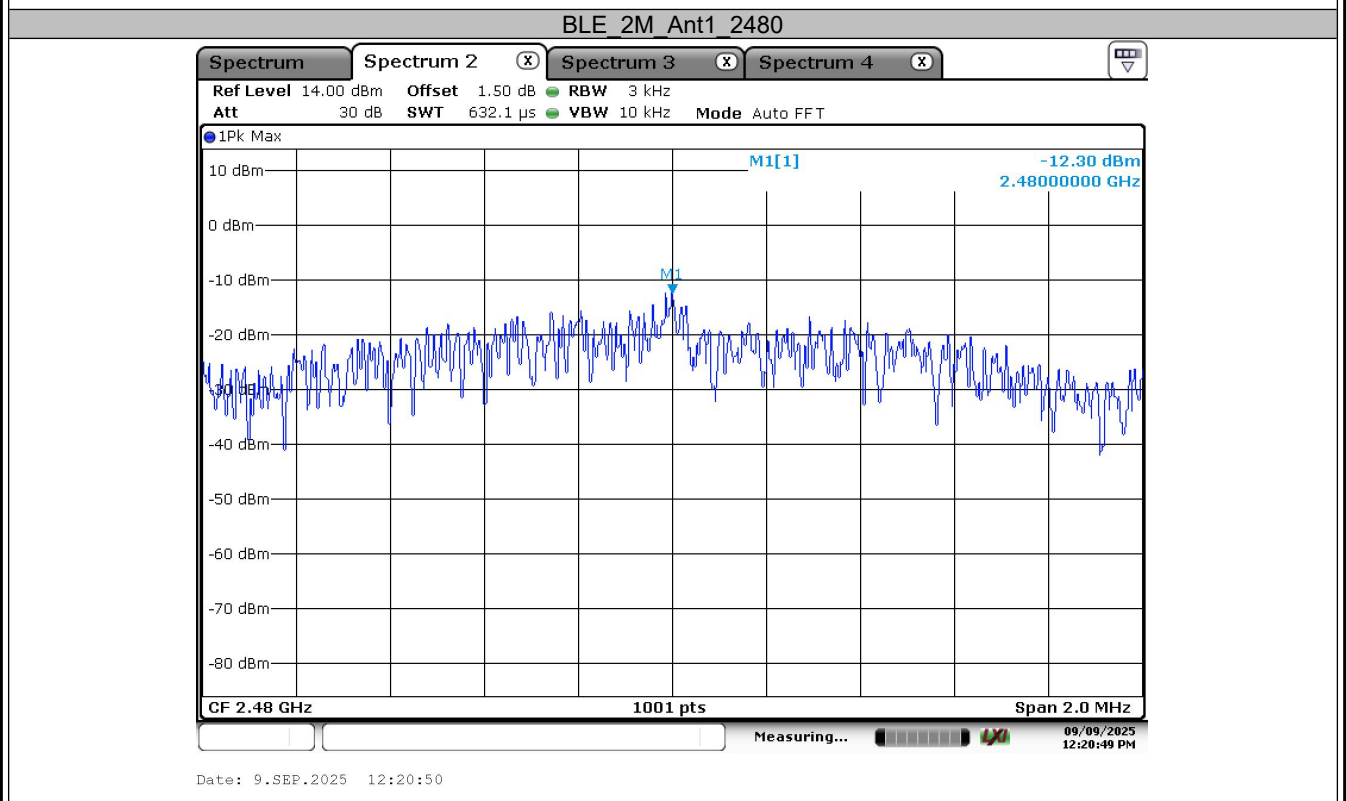
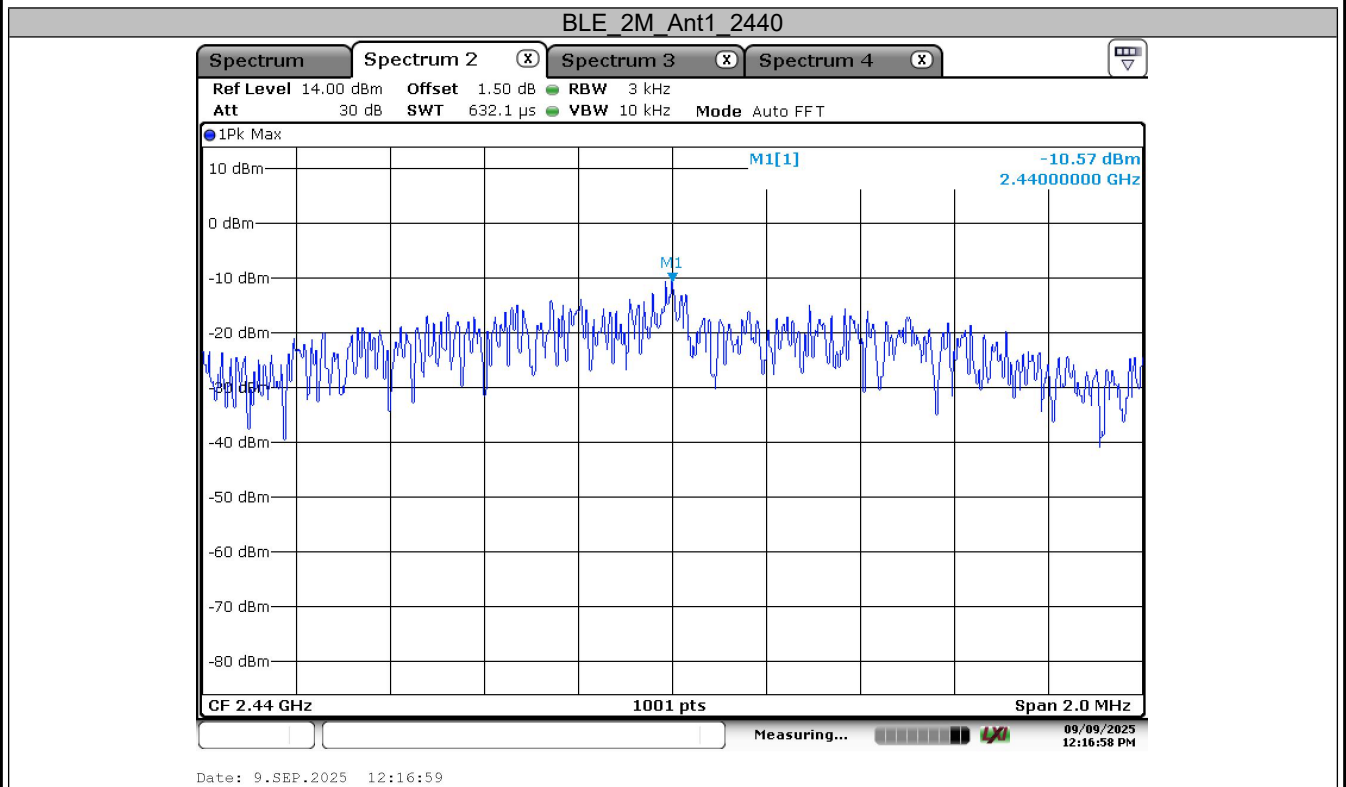
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.82	≤8.00	PASS
		2440	-6.37	≤8.00	PASS
		2480	-8.07	≤8.00	PASS
BLE_2M	Ant1	2402	-15.03	≤8.00	PASS
		2440	-10.57	≤8.00	PASS
		2480	-12.30	≤8.00	PASS

Test Graphs





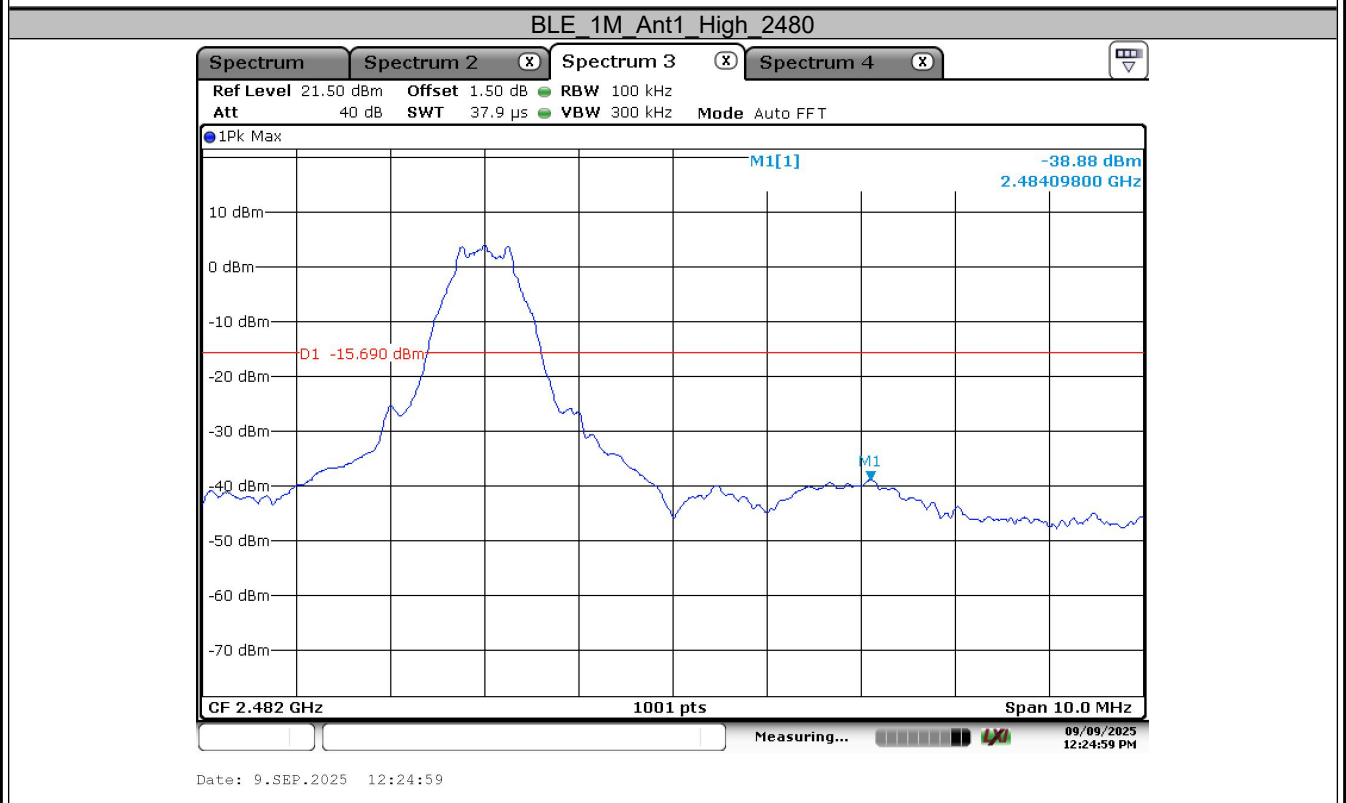
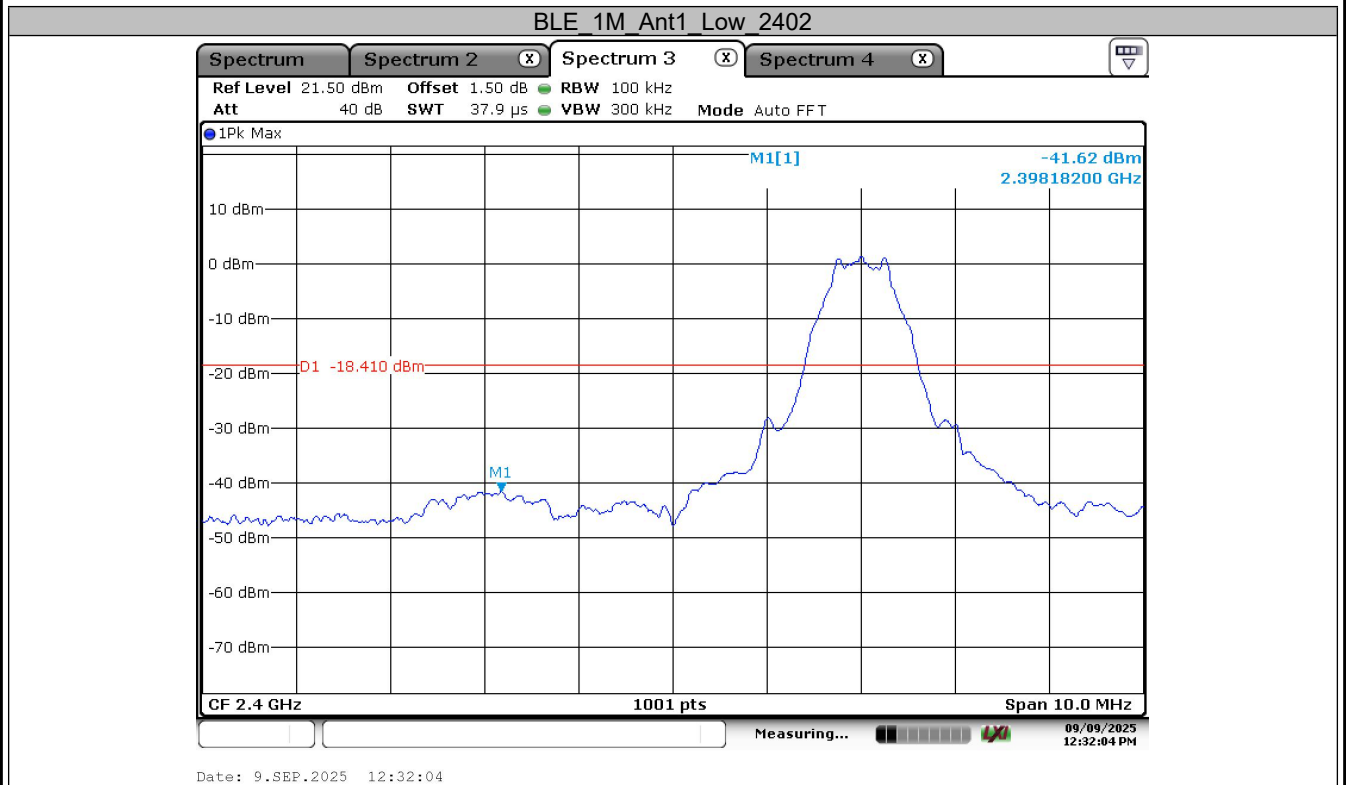


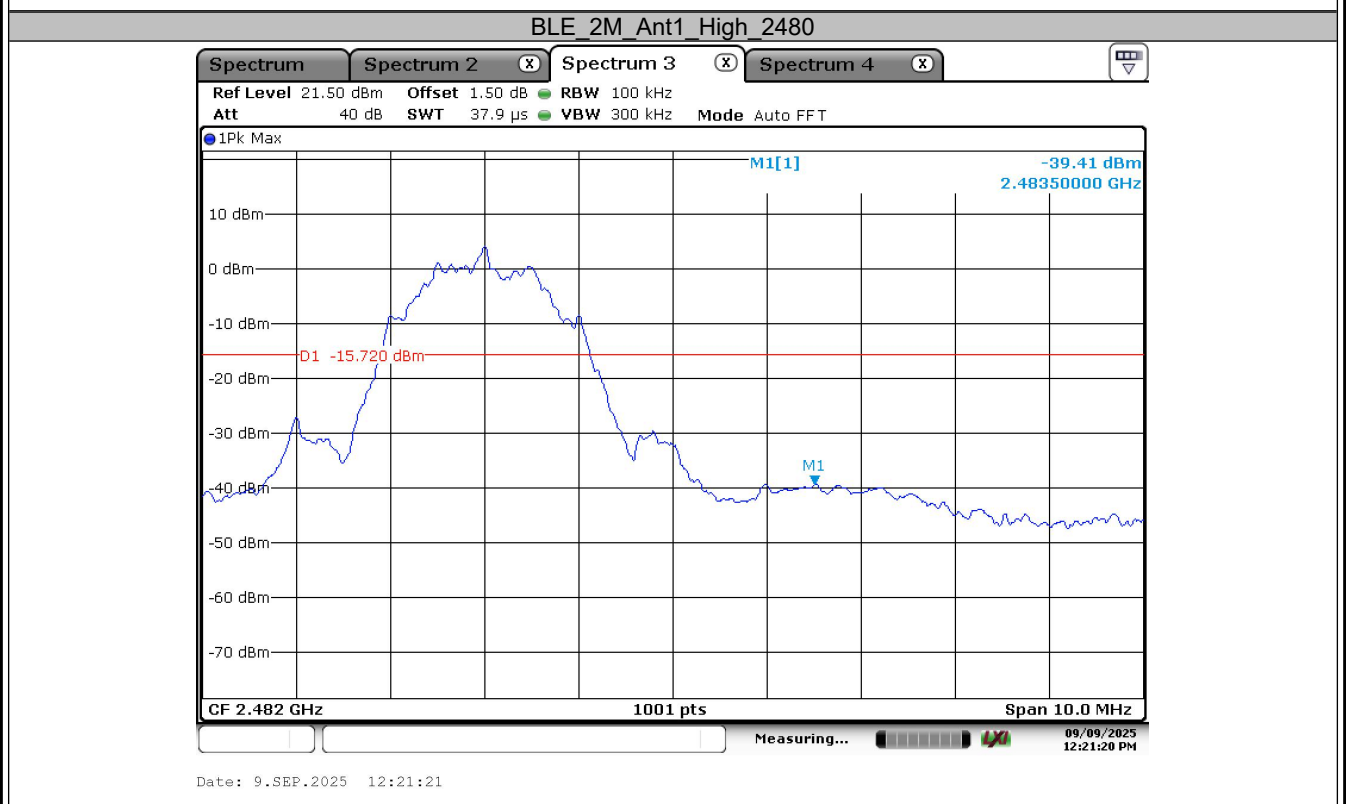
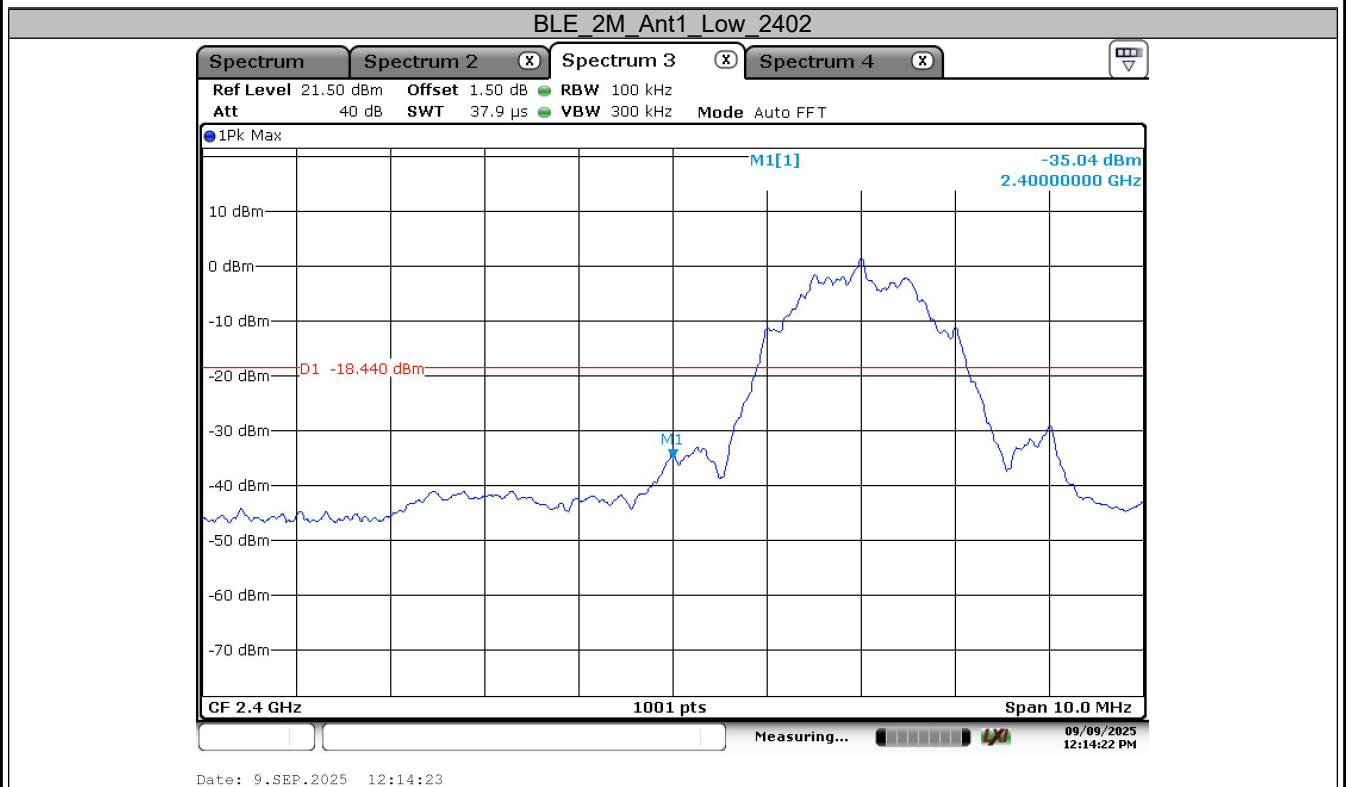
Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	Verdict
BLE_1M	Ant1	Low	2402	PASS
		High	2480	PASS
BLE_2M	Ant1	Low	2402	PASS
		High	2480	PASS

Test Graphs



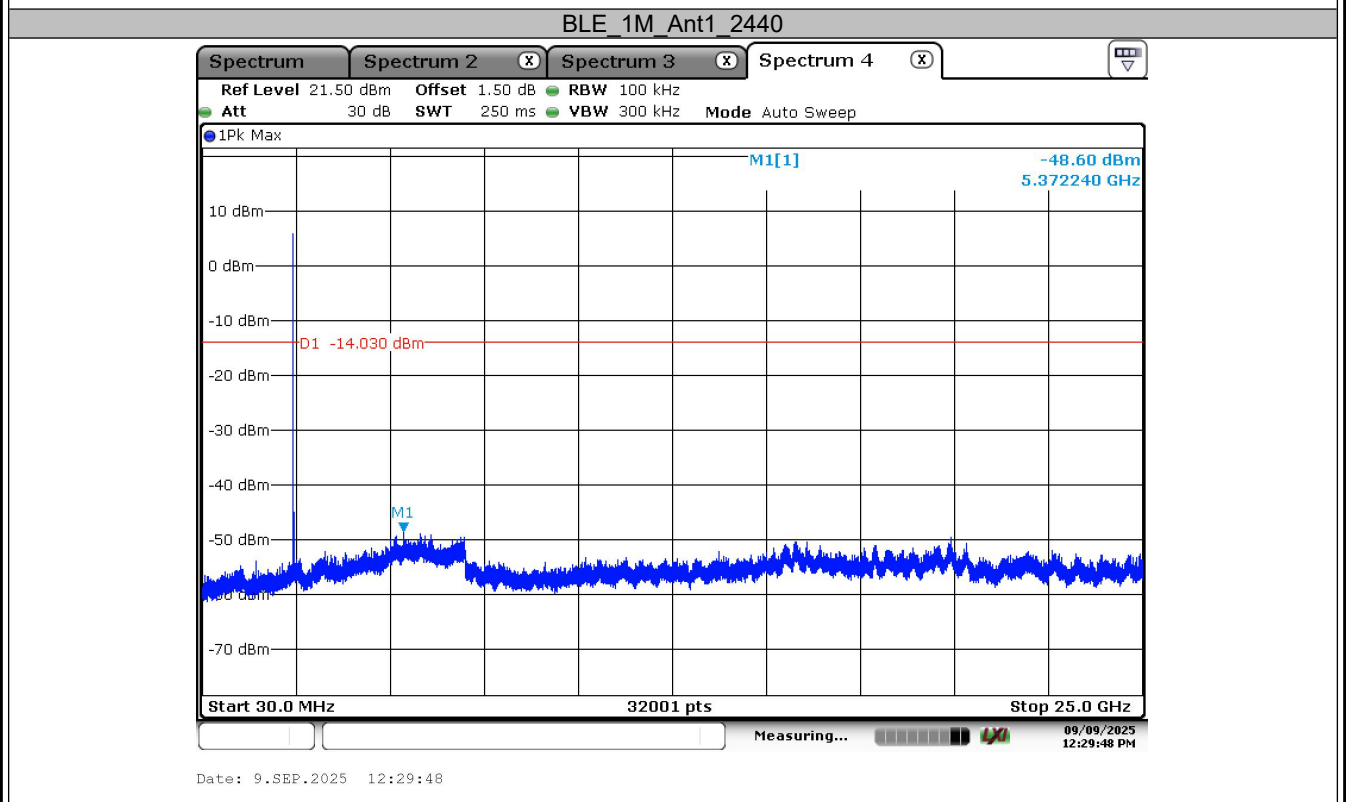
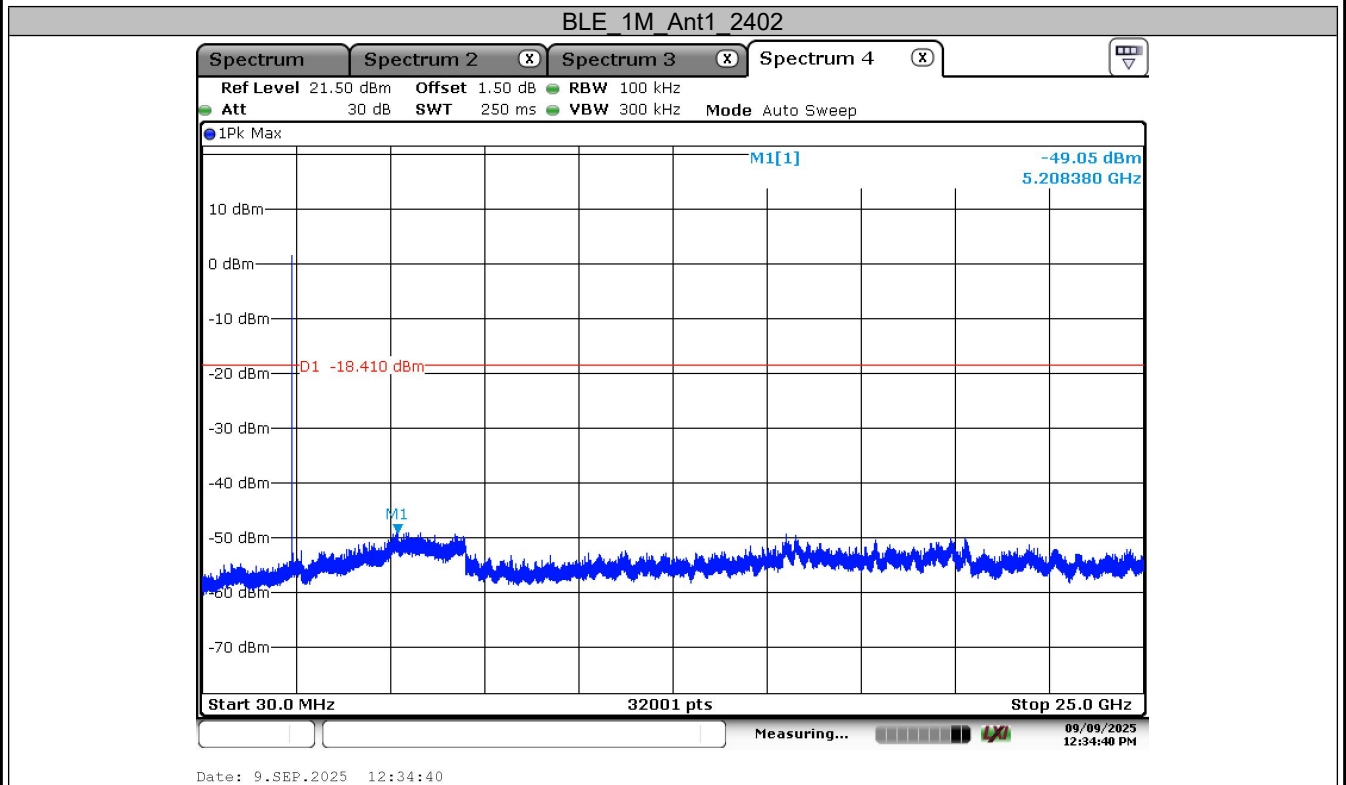


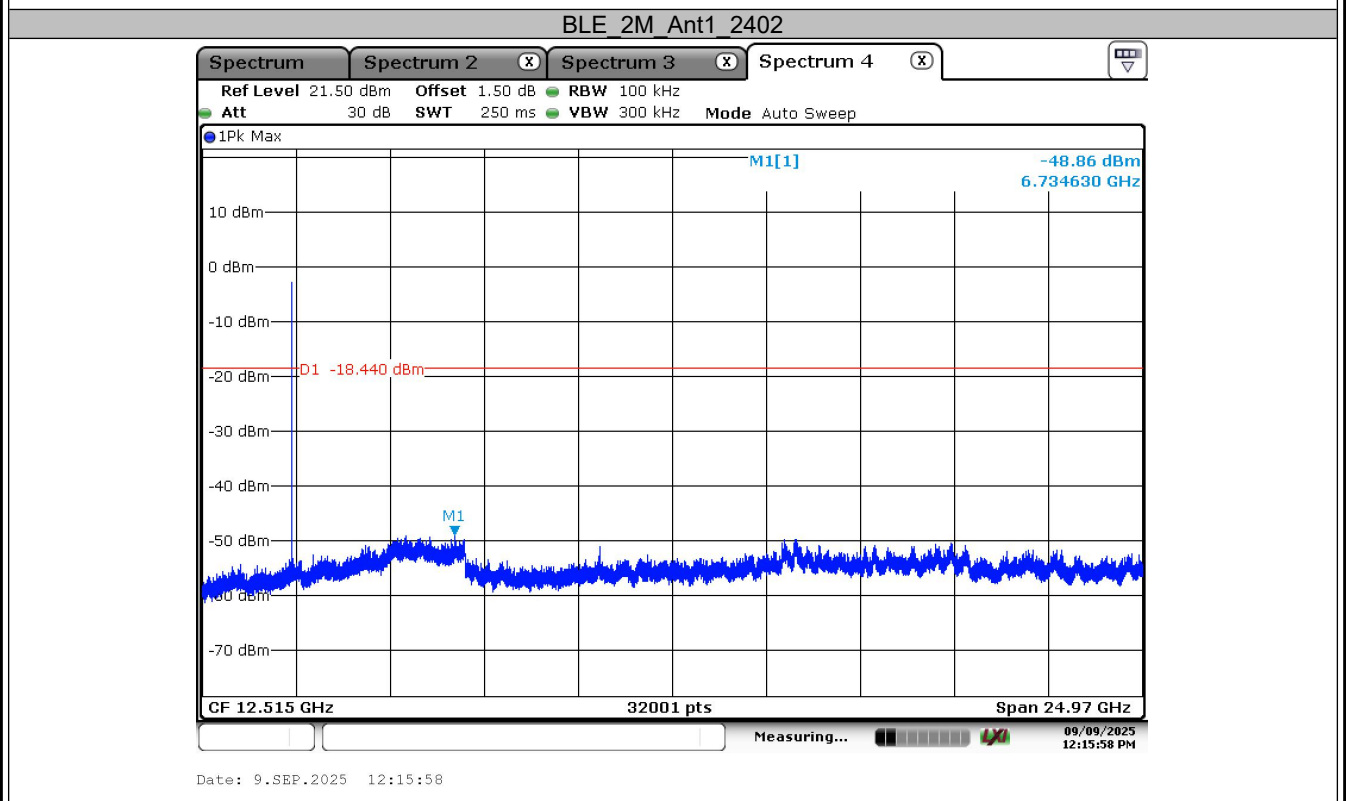
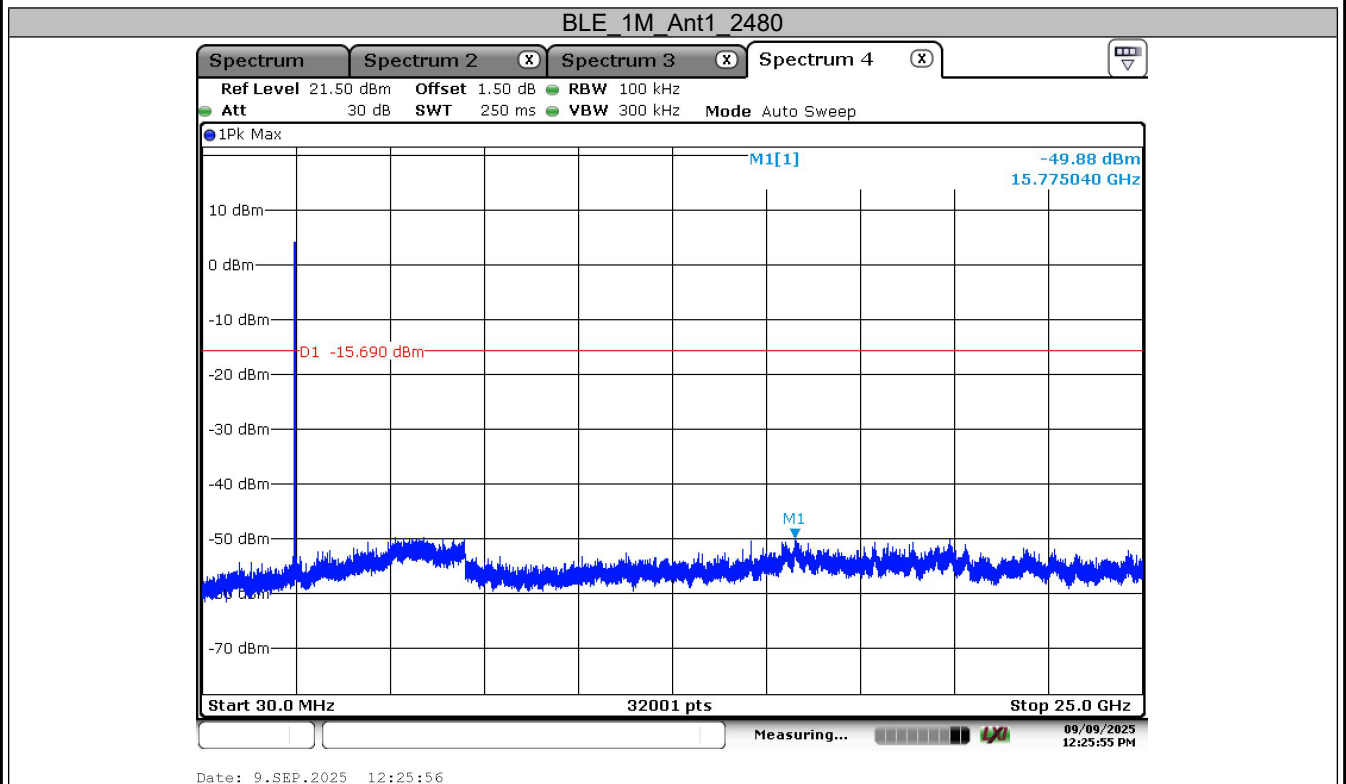
Appendix A.5: Test Results of Conducted Spurious Emission

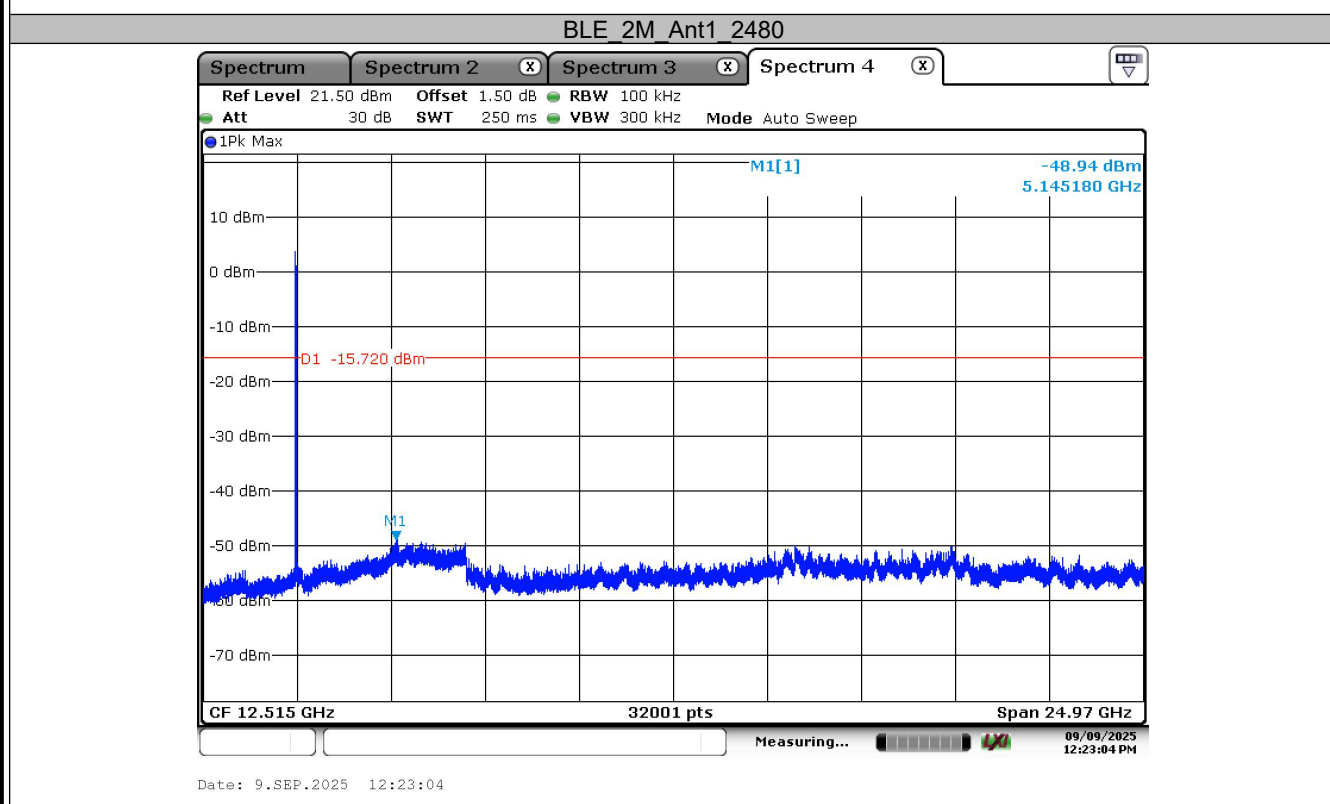
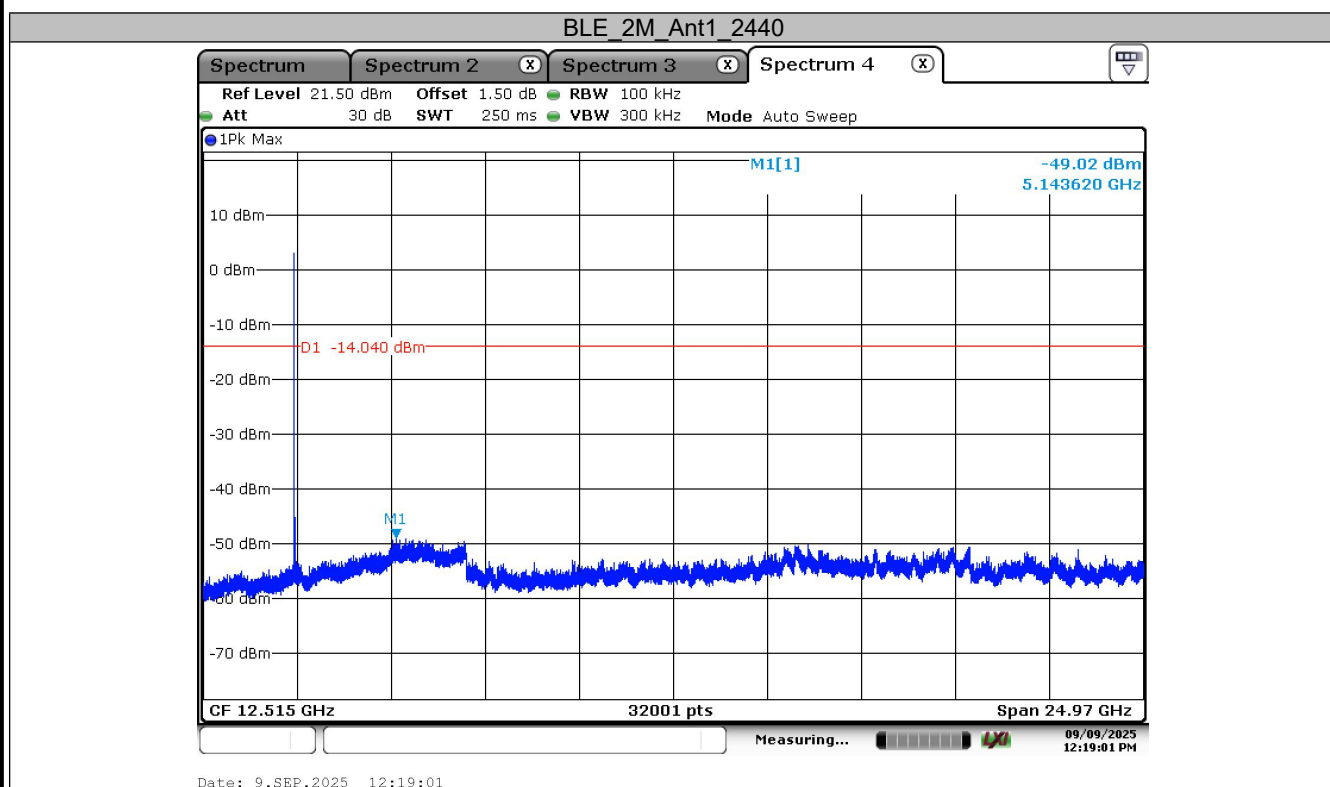
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	Verdict
BLE_1M	Ant1	2402	Reference	PASS
			30~1000	PASS
			1000~26500	PASS
		2440	Reference	PASS
			30~1000	PASS
			1000~26500	PASS
		2480	Reference	PASS
			30~1000	PASS
			1000~26500	PASS
BLE_2M	Ant1	2402	Reference	PASS
			30~1000	PASS
			1000~26500	PASS
		2440	Reference	PASS
			30~1000	PASS
			1000~26500	PASS
		2480	Reference	PASS
			30~1000	PASS
			1000~26500	PASS

Test Graphs







Appendix A.6: Test Results of Radiated Spurious Emissions

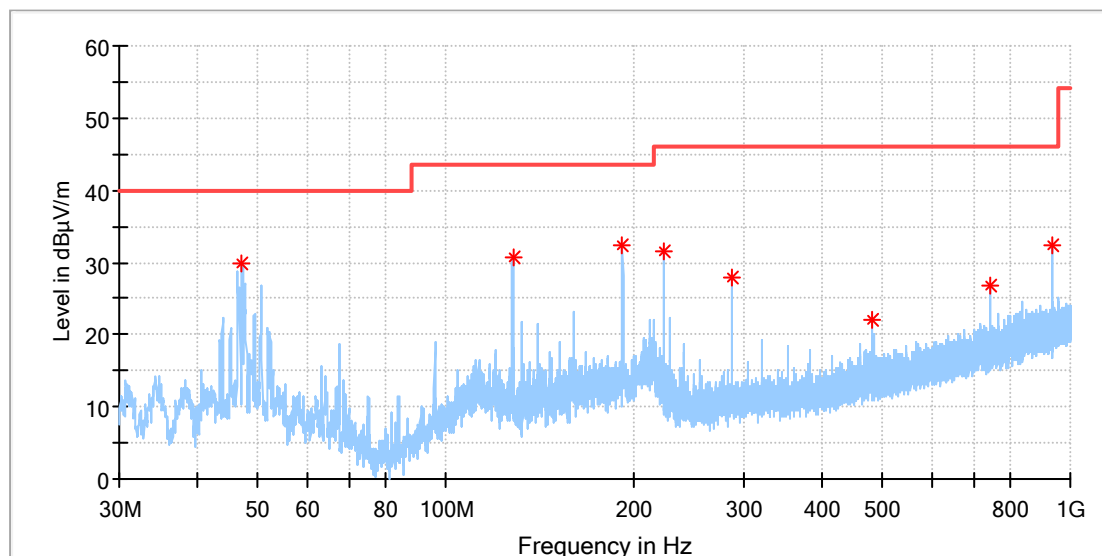
Note:

- 1) This testing was carried out on different modulations and Low/middle/high channels, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Test Report

EUT Information

EUT Name:	PHOTOGRAPHT LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.236154	29.72	40.00	10.28	100.0	H	278.0	-18.6
128.007308	30.66	43.50	12.84	100.0	H	236.0	-21.7
191.990000	32.36	43.50	11.14	100.0	H	319.0	-19.5
224.000000	31.67	46.00	14.33	100.0	H	236.0	-18.4
288.020000	28.04	46.00	17.96	100.0	H	58.0	-16.6
480.042692	21.94	46.00	24.06	100.0	H	74.0	-12.1
742.502308	26.77	46.00	19.23	100.0	H	236.0	-7.2
937.546923	32.31	46.00	13.69	100.0	H	226.0	-4.4

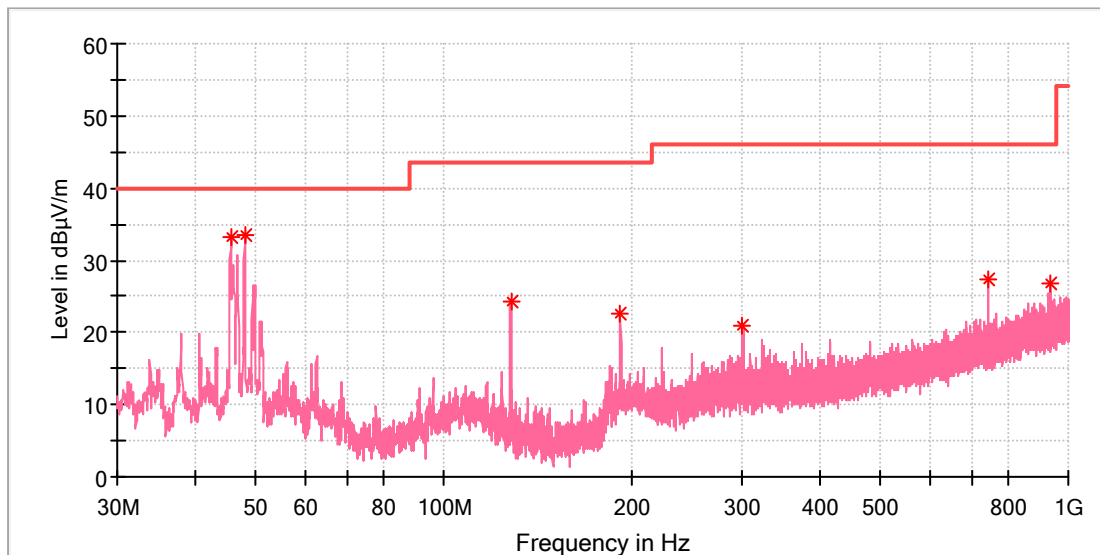
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPHT LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.631923	33.08	40.00	6.92	100.0	V	268.0	-18.8
48.019615	33.47	40.00	6.53	100.0	V	224.0	-18.5
128.007308	24.22	43.50	19.28	100.0	V	283.0	-21.7
191.990000	22.47	43.50	21.03	100.0	V	276.0	-19.5
301.301539	20.83	46.00	25.17	100.0	V	276.0	-16.2
742.502308	27.28	46.00	18.72	100.0	V	129.0	-7.2
937.546923	26.75	46.00	19.25	100.0	V	206.0	-4.4

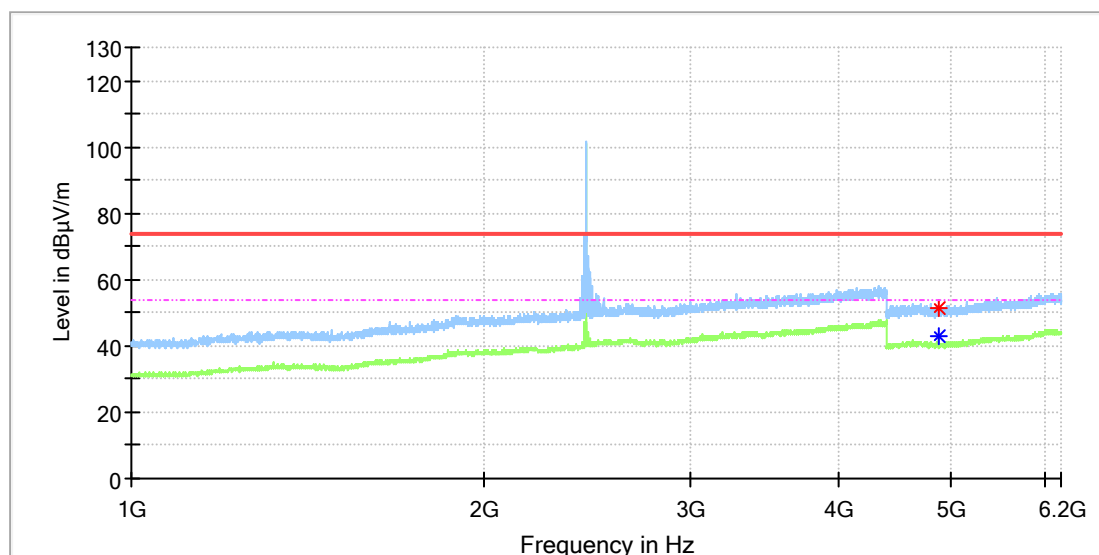
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	---	42.71	54.00	11.29	150.0	H	212.0	13.3
4887.000000	51.59	---	74.00	22.41	150.0	H	225.0	13.3

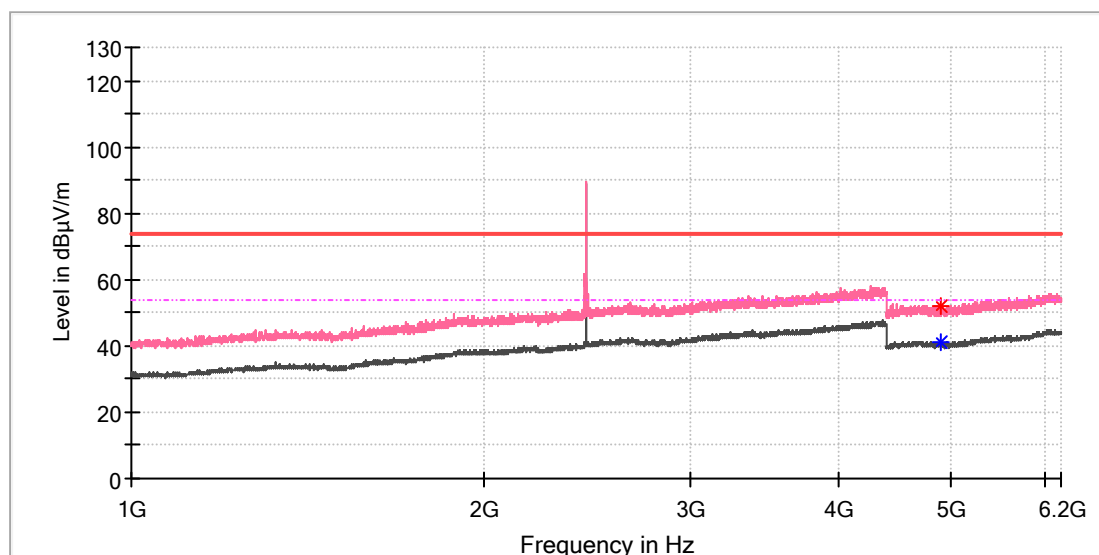
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4895.000000	51.90	---	74.00	22.10	150.0	V	106.0	13.3
4903.000000	---	40.85	54.00	13.15	150.0	V	289.0	13.3

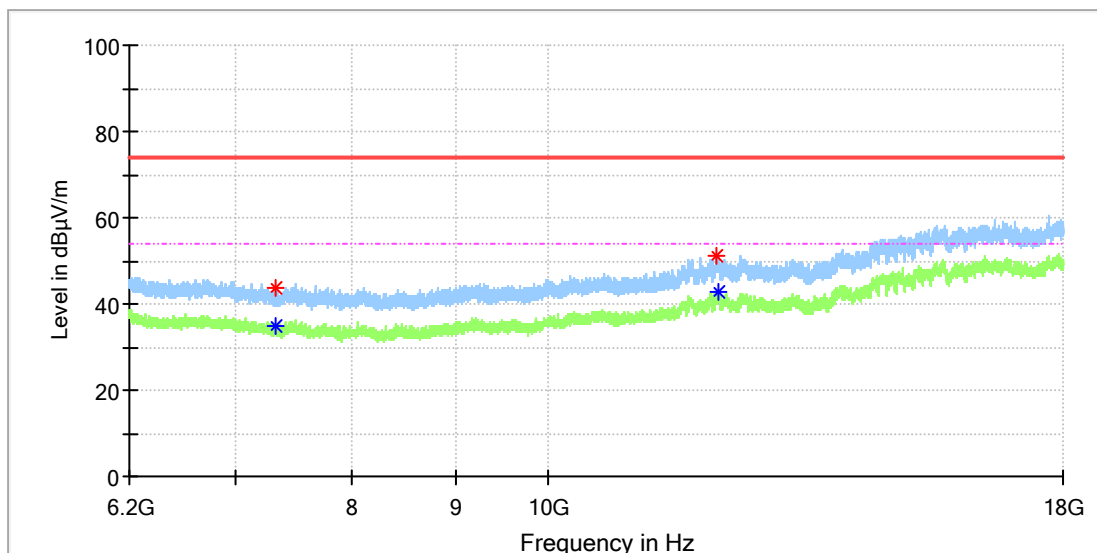
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7324.441667	43.52	---	74.00	30.48	150.0	H	0.0	8.2
7324.933333	---	34.96	54.00	19.04	150.0	H	221.0	8.2
12129.991667	51.02	---	74.00	22.98	150.0	H	287.0	16.2
12143.758333	---	42.57	54.00	11.43	150.0	H	197.0	16.6

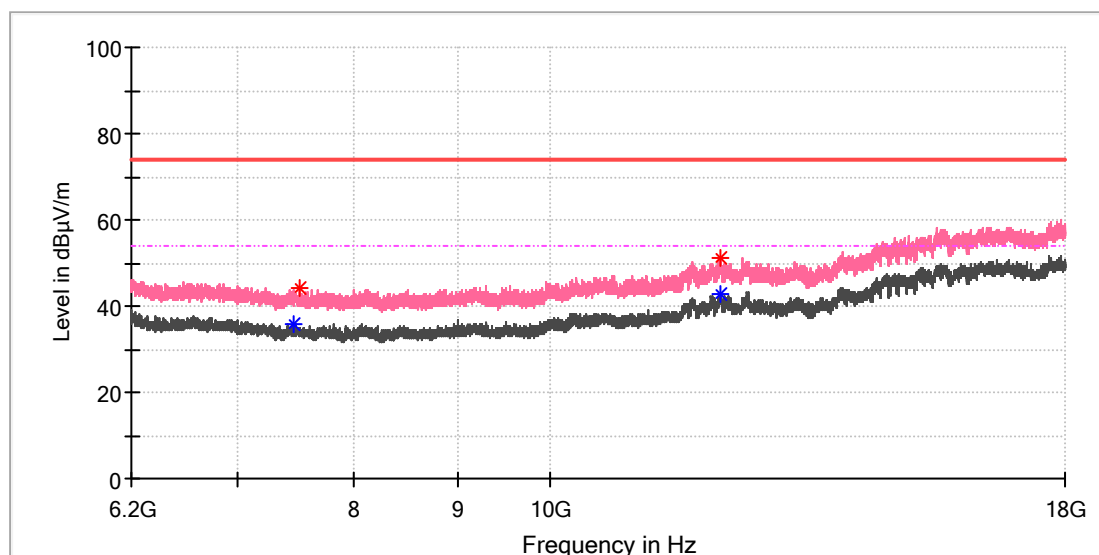
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7465.058333	---	35.84	54.00	18.16	150.0	V	14.0	8.6
7516.191667	44.25	---	74.00	29.75	150.0	V	324.0	8.7
12145.725000	---	42.76	54.00	11.24	150.0	V	176.0	16.6
12157.033333	51.07	---	74.00	22.93	150.0	V	150.0	16.4

Final Result

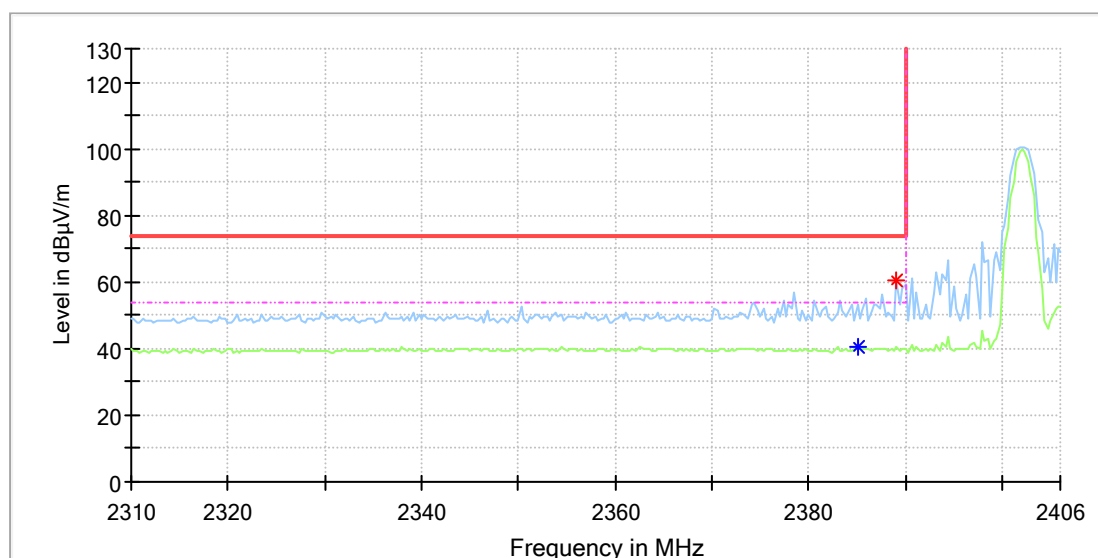
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	NOVA II 2X1
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.000000	---	40.37	54.00	13.63	150.0	H	73.0	8.5
2389.117647	60.23	---	74.00	13.77	150.0	H	50.0	8.5

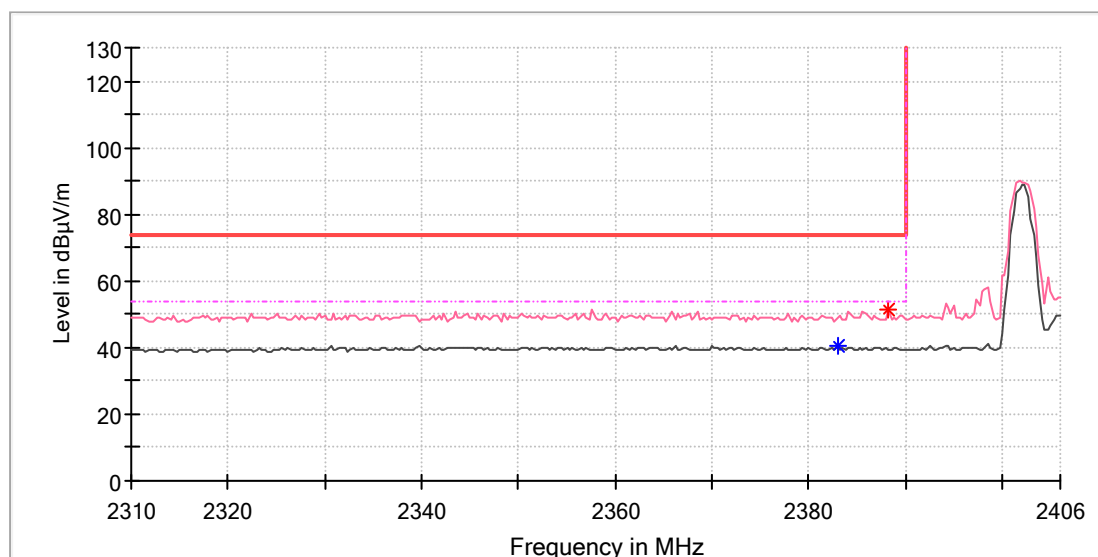
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	NOVA II 2X1
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.941177	---	40.44	54.00	13.56	150.0	V	0.0	8.5
2388.235294	51.24	---	74.00	22.76	150.0	V	239.0	8.5

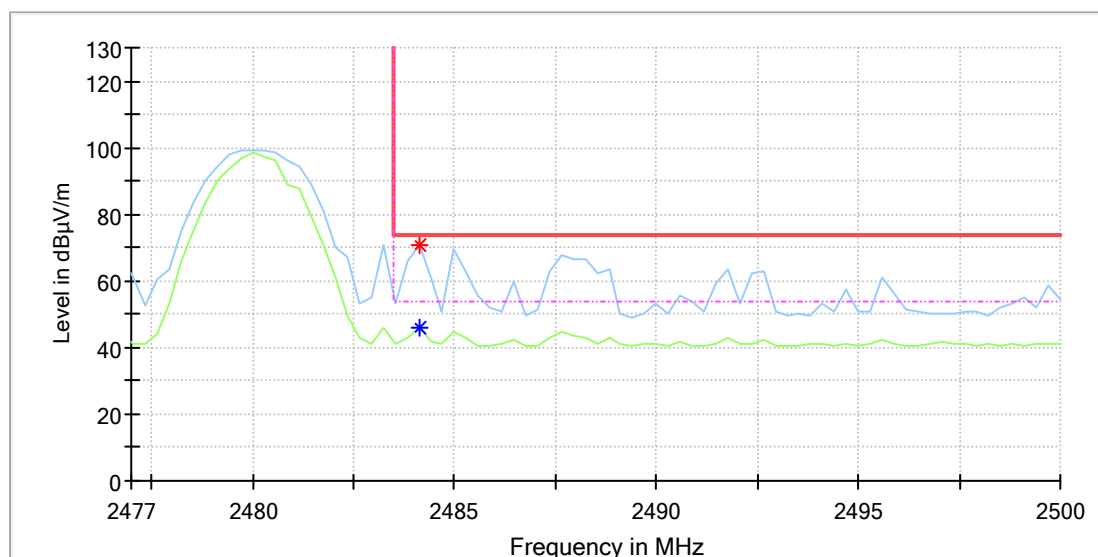
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	---	45.75	54.00	8.25	150.0	H	94.0	9.0
2484.117647	70.77	---	74.00	3.23	150.0	H	94.0	9.0

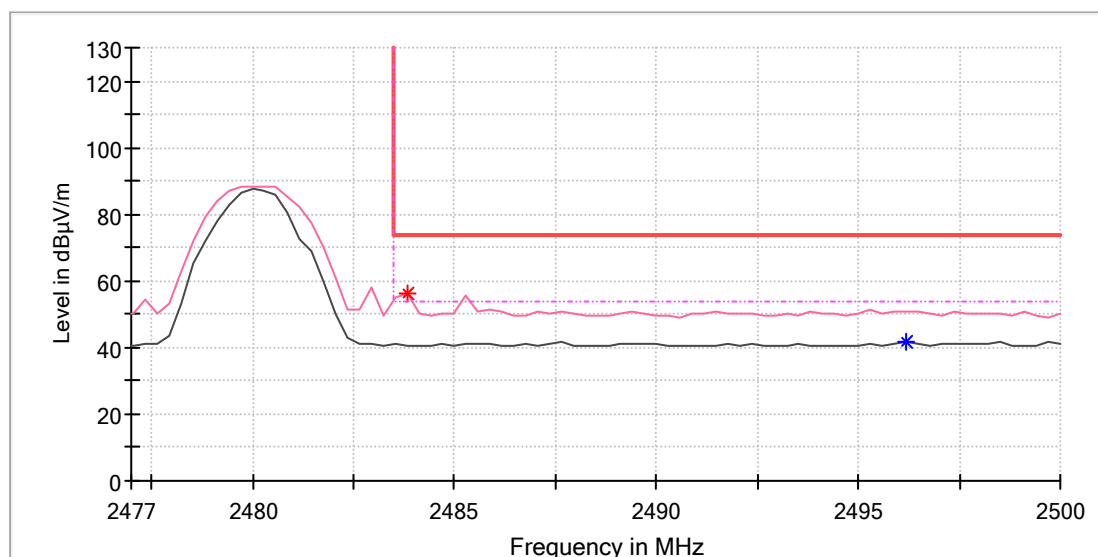
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	Nova II 2x1
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	56.29	---	74.00	17.71	150.0	V	247.0	9.0
2496.176471	---	41.67	54.00	12.33	150.0	V	15.0	9.0

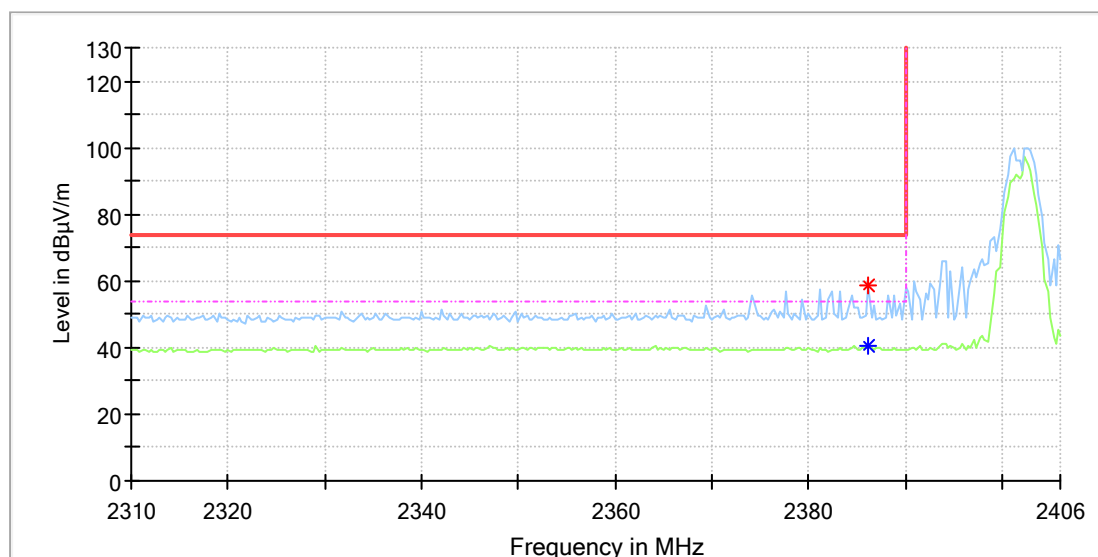
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	NOVA II 2X1
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.176471	---	40.59	54.00	13.41	150.0	H	68.0	8.5
2386.176471	58.49	---	74.00	15.51	150.0	H	68.0	8.5

Final Result

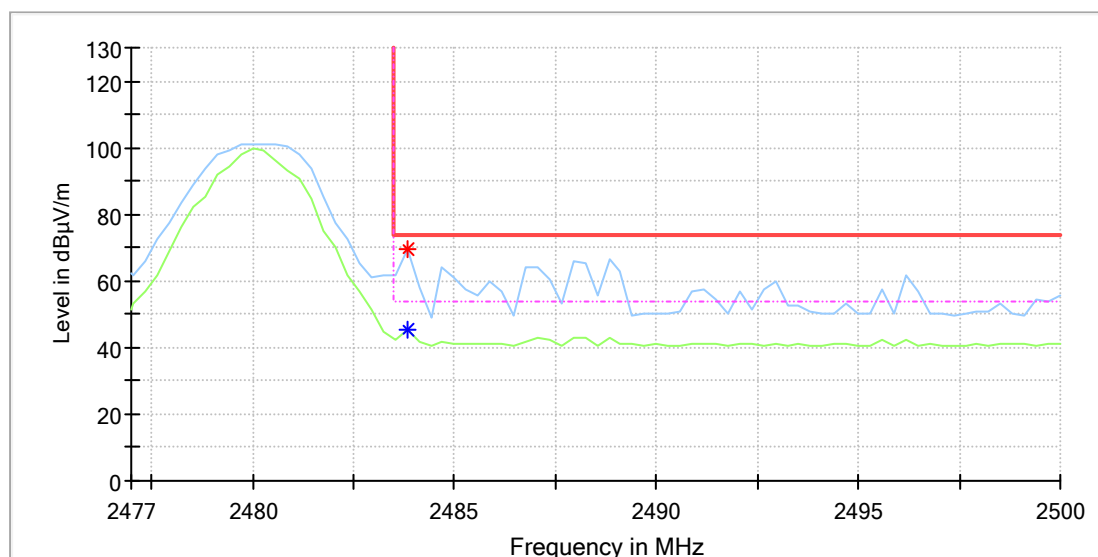
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	NOVA II 2X1
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	---	45.17	54.00	8.83	150.0	H	92.0	9.0
2483.823529	69.24	---	74.00	4.76	150.0	H	92.0	9.0

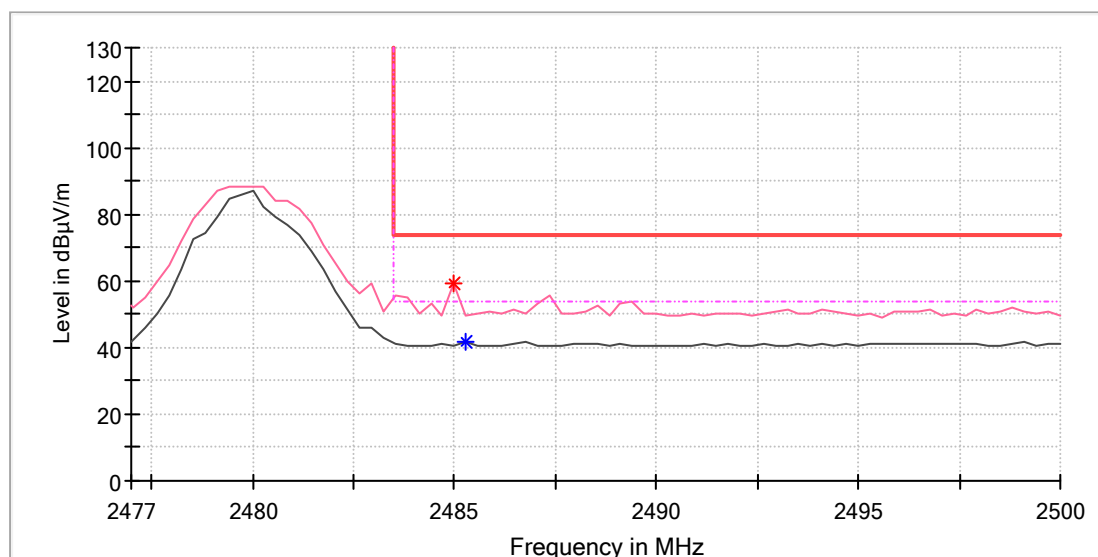
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000	100.000	100.000	100.000	100.000	100.000		100.000	100.000

Test Report

EUT Information

EUT Name:	PHOTOGRAPH LIGHT
Model:	NOVA II 2X1
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168573267/A004077936-001
Test Voltage::	AC 120V/60HZ
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.000000	59.13	---	74.00	14.87	150.0	V	178.0	9.0
2485.294118	---	41.84	54.00	12.16	150.0	V	209.0	9.0

Final Result

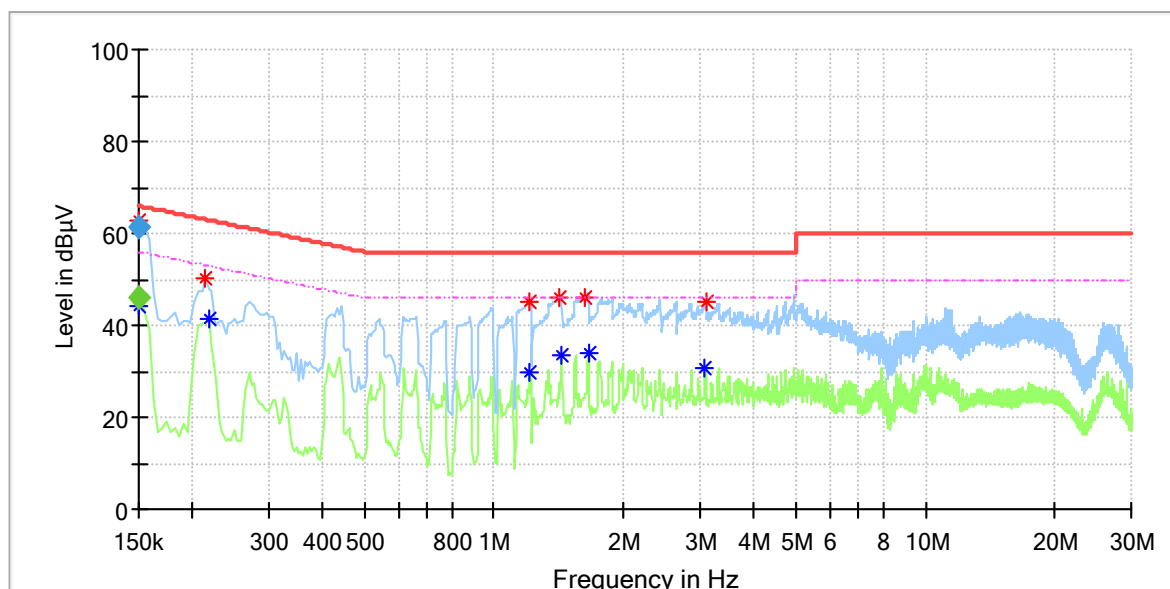
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

Appendix A.8: Test Results of Conducted Emission on AC Mains

Test Report

EUT Information

EUT Name: LED Panel Video Light
Order Number: 168573267
Model: Novall 2x1
Test Mode: Lighting+LAN+USB+DMX in/out+BT Connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Soloman Wu / Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	---	44.39	55.78	11.39	L1	10.24
0.15	62.90	---	66.00	3.10	L1	10.23
0.21	50.11	---	63.05	12.94	L1	10.24
0.22	---	41.25	52.90	11.65	L1	10.24
1.21	44.95	---	56.00	11.05	L1	10.28
1.21	---	29.72	46.00	16.28	L1	10.28
1.42	45.84	---	56.00	10.16	L1	10.29
1.43	---	33.27	46.00	12.73	L1	10.29
1.62	45.94	---	56.00	10.06	L1	10.30
1.65	---	33.80	46.00	12.20	L1	10.30
3.09	---	30.74	46.00	15.26	L1	10.35
3.09	44.97	---	56.00	11.03	L1	10.35

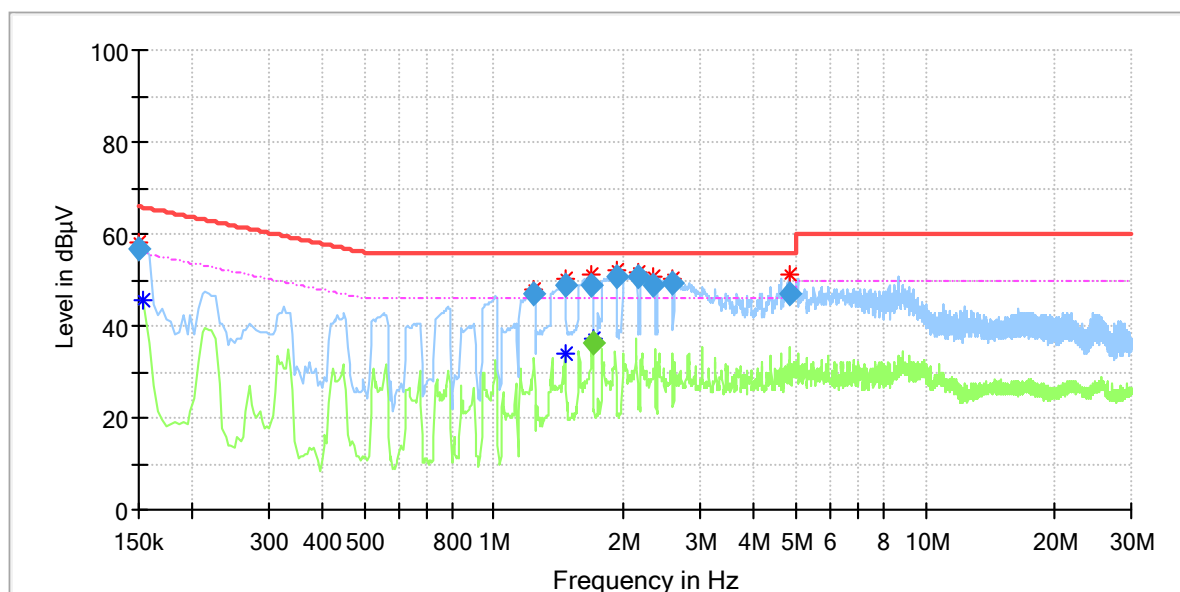
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	---	46.24	56.00	9.77	1000.00	9.00	L1	10.23
0.15	61.43	---	66.00	4.57	1000.00	9.00	L1	10.23

Test Report

EUT Information

EUT Name: LED Panel Video Light
 Order Number: 168573267
 Model: Novall 2x1
 Test Mode: Lighting+LAN+USB+DMX in/out+BT Connecting
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15B
 Test By./Review By: Soloman Wu / Murphy Chen
 Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
 Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	58.32	---	65.78	7.46	N	10.26
0.15	---	45.74	55.78	10.04	N	10.26
1.24	47.84	---	56.00	8.16	N	10.30
1.46	---	34.11	46.00	11.89	N	10.30
1.47	50.02	---	56.00	5.98	N	10.30
1.68	51.08	---	56.00	4.92	N	10.30
1.70	---	37.42	46.00	8.58	N	10.30
1.92	51.93	---	56.00	4.07	N	10.31
2.15	51.55	---	56.00	4.45	N	10.31
2.34	50.70	---	56.00	5.30	N	10.32
2.60	50.00	---	56.00	6.00	N	10.32
4.85	51.02	---	56.00	4.98	N	10.43

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	56.68	---	66.00	9.32	1000.00	9.00	N	10.25
1.24	46.93	---	56.00	9.07	1000.00	9.00	N	10.30
1.47	48.83	---	56.00	7.17	1000.00	9.00	N	10.30
1.68	48.92	---	56.00	7.08	1000.00	9.00	N	10.30
1.70	---	36.42	46.00	9.58	1000.00	9.00	N	10.30
1.92	50.87	---	56.00	5.13	1000.00	9.00	N	10.31
2.15	50.66	---	56.00	5.34	1000.00	9.00	N	10.31
2.34	48.71	---	56.00	7.29	1000.00	9.00	N	10.32
2.60	49.44	---	56.00	6.56	1000.00	9.00	N	10.32
4.85	46.96	---	56.00	9.04	1000.00	9.00	N	10.43