

Prüfbericht-Nr.: Test report no.:	CN24A2HE 001	Auftrags-Nr.: Order no.:	170395963	Seite 1 von 18 Page 1 of 18	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-12-10		
Auftraggeber: Client:	ONWARD BRANDS LLC 767 5TH AVE FL 37TH NEW YORK, NY 10153, USA				
Prüfgegenstand: Test item:	Dongle				
Bezeichnung / Typ-Nr.: Identification / Type no.:	OB1496				
Auftrags-Inhalt: Order content:	Test Report				
Prüfgrundlage: Test specification:	FCC CFR Title 47, Part 15, Subpart C, Section 15.249 RSS-210 Issue 11 June 2024 RSS-Gen Issue 5 March 2019				
Wareneingangsdatum: Date of sample receipt:	2025-03-04	Please refer to Photo Document			
Prüfmuster-Nr.: Test sample no:	LP24070228C11-S110				
Prüfzeitraum: Testing period:	2025-03-04 - 2025-03-08				
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:	2025-03-27		Ausstellungsdatum: Issue date:	2025-03-27	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2BCOY-OB1496 IC: 32736-OB1496 HVIN: OB1496				
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 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor 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. 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>
2	As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. <i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i>
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>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.4 BAND EDGE

RESULT: Pass

5.1.5 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: Photographs of the Test Set-up

Appendix B: Test Results

2 Test Sites

2.1 Test Facilities

Dongguan Lepont Testing Service Co., Ltd.

Room 102, Building 11, No.7, Houjie Science And Technology Avenue, Houjie, Dongguan, Guangdong, China

FCC Accreditation Designation No.: CN1351

ISED wireless device testing laboratory: 20133

TÜV Rheinland (Guangdong) Co., Ltd. subcontract all test to Dongguan Lepont Testing 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

Radio Spectrum Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum analyzer	Agilent	N9020A	MY49100060	Jan. 06, 2026
Vector source	Agilent	N5182A	MY47420382	Jan. 06, 2026
Analog signal source	Agilent	N5171B	MY51350292	Jan. 06, 2026
All instrument	Rohde & Schwarz	CMW 500	1201.002K50	Jan. 06, 2026
High and low temperature chamber	Math-mart	MT-1202-40	LEP-E041	Jan. 06, 2026
control unit	Tonscend	JS0806-2	10165	Jan. 06, 2026
Testing software	Tonscend	JSTS1120-3	Ver 2.6.77.0518	Jan. 06, 2026
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	Rohde & Schwarz	ESR 3	101849	Dec. 22, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	743	Nov. 19, 2025
Spectrum analyzer	Agilent	N9020A	MY49100060	Jan. 06, 2026
Horn antenna	Schwarzbeck	BBHA 9120D	01875	Jan. 23, 2025
Preamplifier	Schwarzbeck	BBN 9718B	00010	Nov. 16, 2025
Signal Amplifier	HP	8447D	1726A01222	Jan. 06, 2026
6dB Attenuator	RswTech	5W 6dB	LEP-E084	Jan. 06, 2026
966 Chamber 1	MR	MR-L02	LEP-E051	Nov. 16, 2025
Test software	EZ-EMC	Fala	EMEC-3A1	N/A
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	Rohde & Schwarz	ESHS30	8290501003	Dec. 23, 2025
Artificial Mains Network	Baluelec	LSN016	BL041122050121	Nov. 01, 2025
Shielded Room 1	MR	MR-L05	LEP-E053	Nov. 16, 2025
Test software	EZ-EMC	Fala	LEPONT-03A2	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	$\pm 1.06\text{dB}$
Occupied Channel Bandwidth	± 1.42
RF power density, conducted	$\pm 1.06\text{dB}$
Unwanted Emissions, conducted	$\pm 2.51\text{dB}$
All emissions, radiated	$\pm 3.70\text{dB}$
Conducted Emission 150kHz to 30MHz	$\pm 2.44\text{dB}$

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

Dongguan Lepont Testing Service Co., Ltd. Test facility located at Room 102, Building 11, No.7, Houjie Science And Technology Avenue, Houjie, Dongguan, Guangdong, 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 EUT is a USB dongle, which supports 2.4GHz 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:	Dongle
Type Designation:	OB1496
Trademark:	Incase
FCC ID:	2BCOY-OB1496
IC:	32736-OB1496
HVIN:	OB1496
Operating Voltage:	Supplied by PC USB Port (PC input voltage 120Vac, 60Hz)
Test Voltage:	DC 5V, supplied by PC USB Port
Operating Temperature Range:	-20 °C ~ +40 °C
Technical Specification of 2.4GHz	
Frequency Range:	2403 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	24 channels
Channel separation	2MHz
Antenna Type:	PCB Layout Antenna
Antenna Gain:	-4.56 dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. 2.4GHz transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, normal operation
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|-------------------------|
| - Application Form | - Block Diagram |
| - FCC/IC Label and Location Info | - Operation Description |
| - Schematics | - User Manual |

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: 2013.

Table 4: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	25°C±2°C	5.0Vdc	Ambient

Table 5: Test channel and frequency of 2.4GHz

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 2403MHz, 2444MHz, 2480MHz	--

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	Xiaoxin Pro IA5HR	PF490VB0	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)

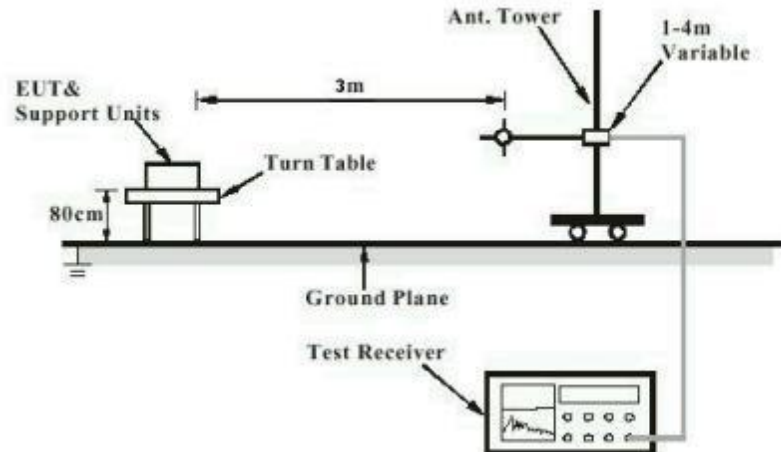


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

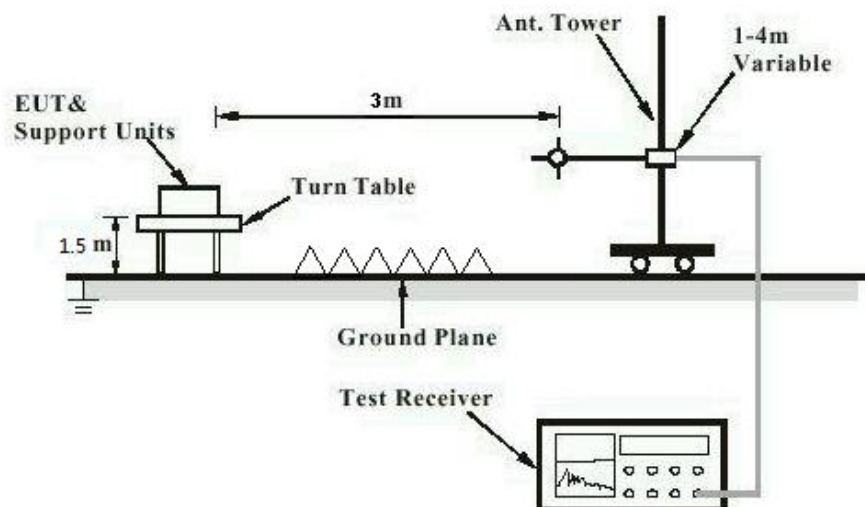


Diagram of Measurement Configuration for Mains Conduction Measurement

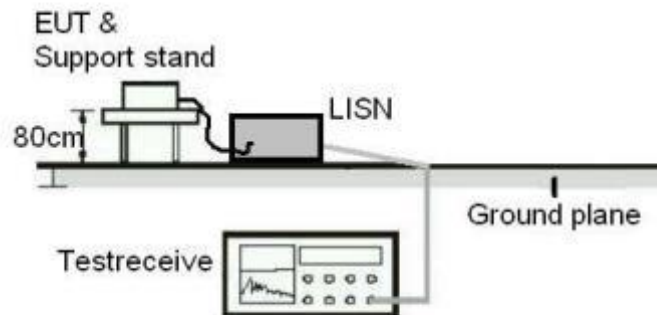
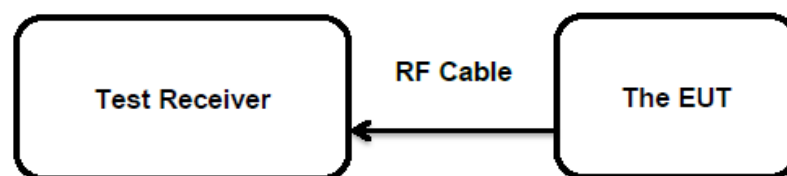


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a PCB antenna, the gain of antenna is -4.56 dBi, which that permanent attachment and no consideration of replacement.

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 Field strength of fundamental and harmonics

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

Test standard	: FCC Part 15.249(a) (d) (e) RSS-210 Section B.10
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249(a) (d) (e) & 15.209(a) RSS-210 Section B.10 (a) & (b) RSS-Gen Section 8.9
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-3-7
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

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

For the measurement records, refer to the appendix B.

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5.1.3 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen Section 6.7
Basic standard	: ANSI C63.10: 2013
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-3-8
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 22.2 °C
Relative humidity	: 51 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 Band Edge

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

Test standard	: FCC Part 15.249(a) (d) (e) & 15.209 & 15.205 RSS-210 Section B.10 (a) & (b) RSS-Gen Section 8.9 & 8.10
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249(a) (d) (e) & 15.209 & 15.205 RSS-Gen Table 5 & 7
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-3-7
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A
Test channel	: Low / Middle / High
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.

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5.1.5 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: 2013
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	: 2025-3-4
Input voltage	: Supplied by PC USB Port (PC input voltage 120Vac, 60Hz)
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 23.9 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

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

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Appendix B: Test Results of General 2.4GHz

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Appendix B.1: Fundamental



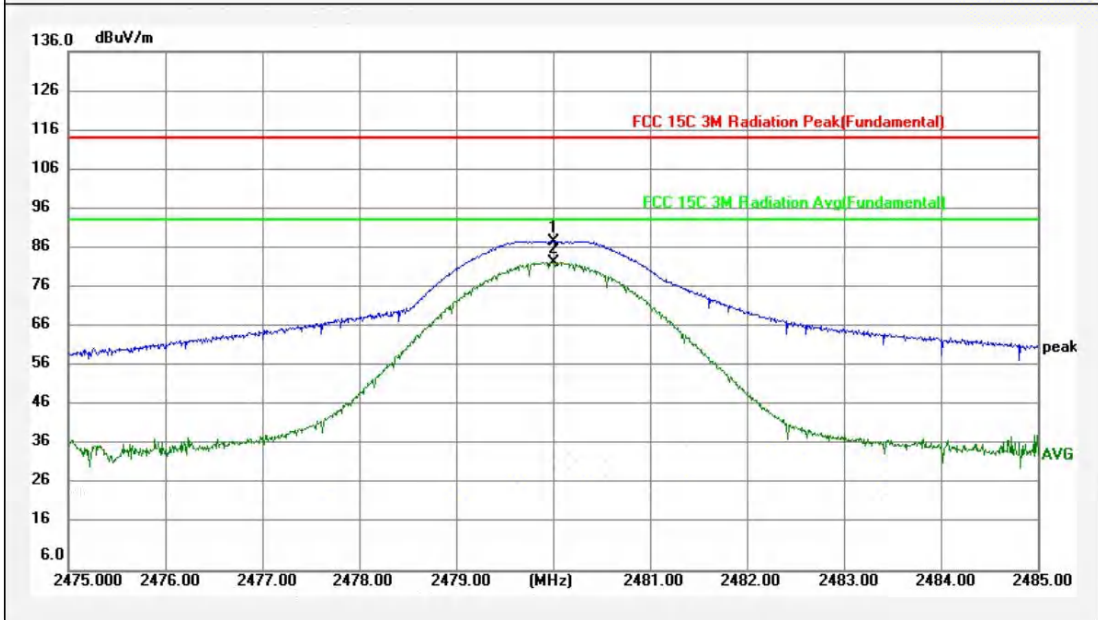
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2480.000	-4.48	92.96	88.48	114.00	-25.52	peak		
2	2480.000	-4.48	87.62	83.14	94.00	-10.86	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-FundamentalData :#6





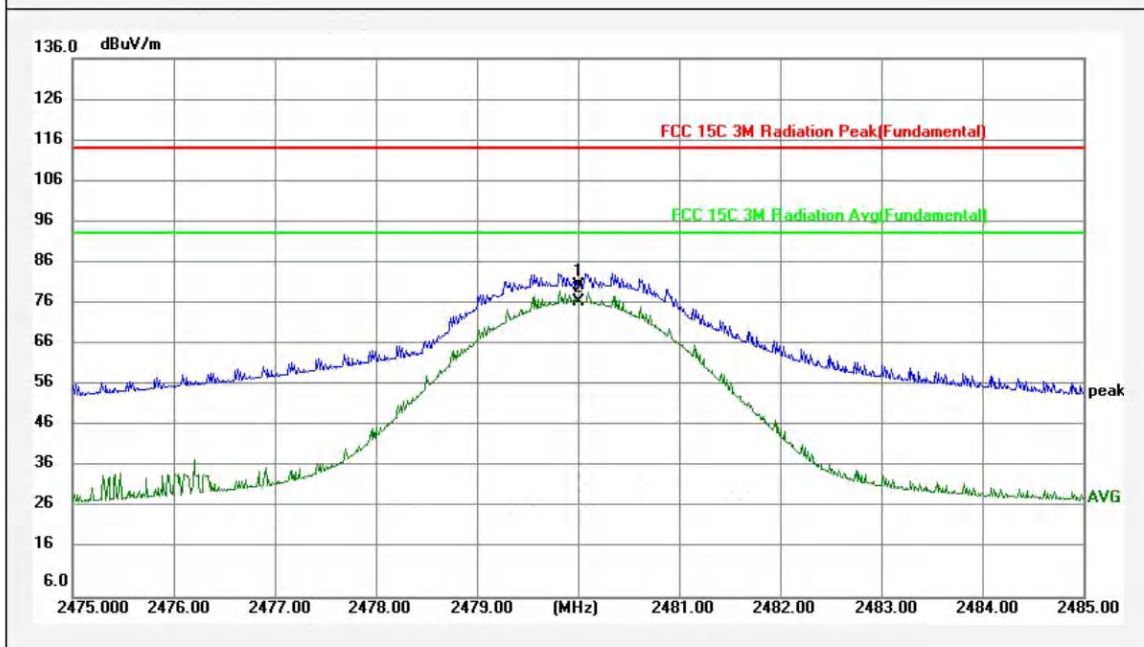
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2480.000	-4.48	85.60	81.12	114.00	-32.88	peak		
2	2480.000	-4.48	81.83	77.35	94.00	-16.65	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1496-Fundamental\Data :#5





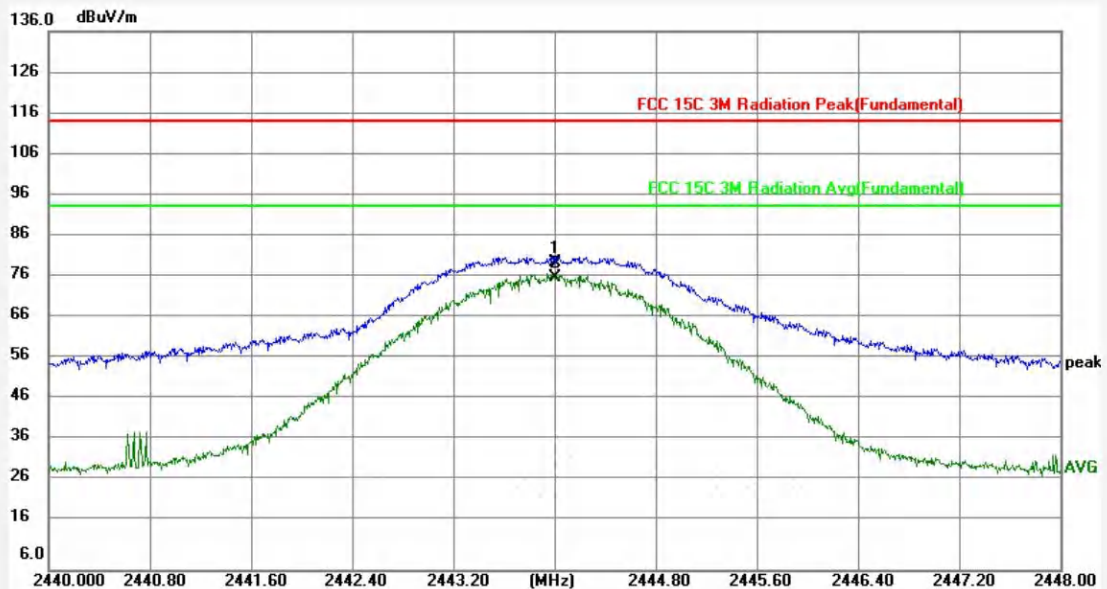
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2444MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2444.000	-4.62	84.90	80.28	114.00	-33.72	peak		
2	2444.000	-4.62	81.20	76.58	94.00	-17.42	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-Fundamental\Data :#4





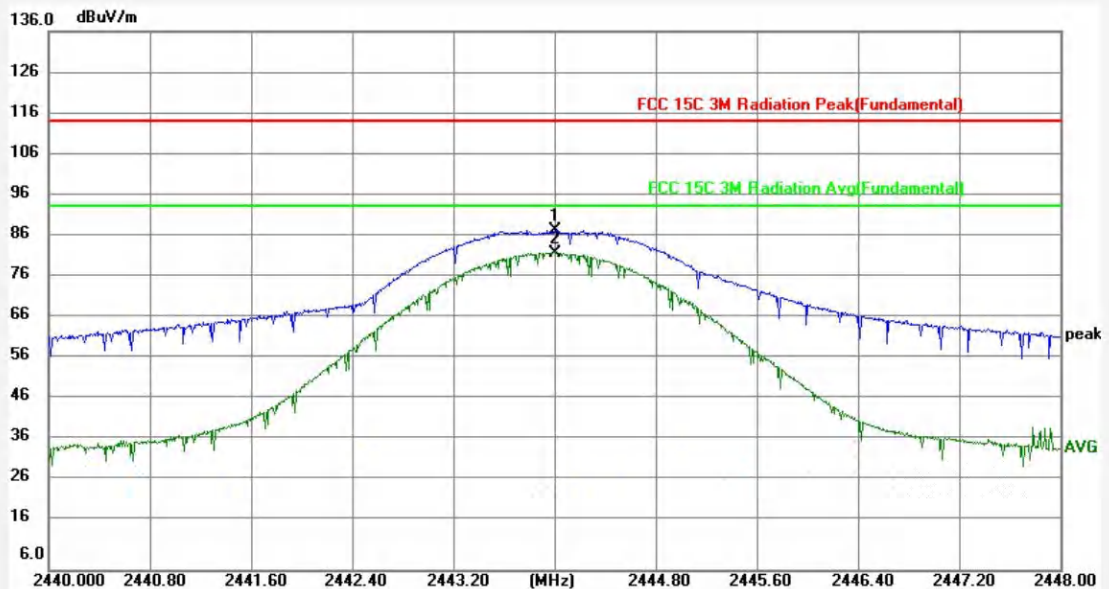
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2444MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2444.000	-4.62	92.80	88.18	114.00	-25.82	peak		
2	2444.000	-4.62	87.01	82.39	94.00	-11.61	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-FundamentalData :#3





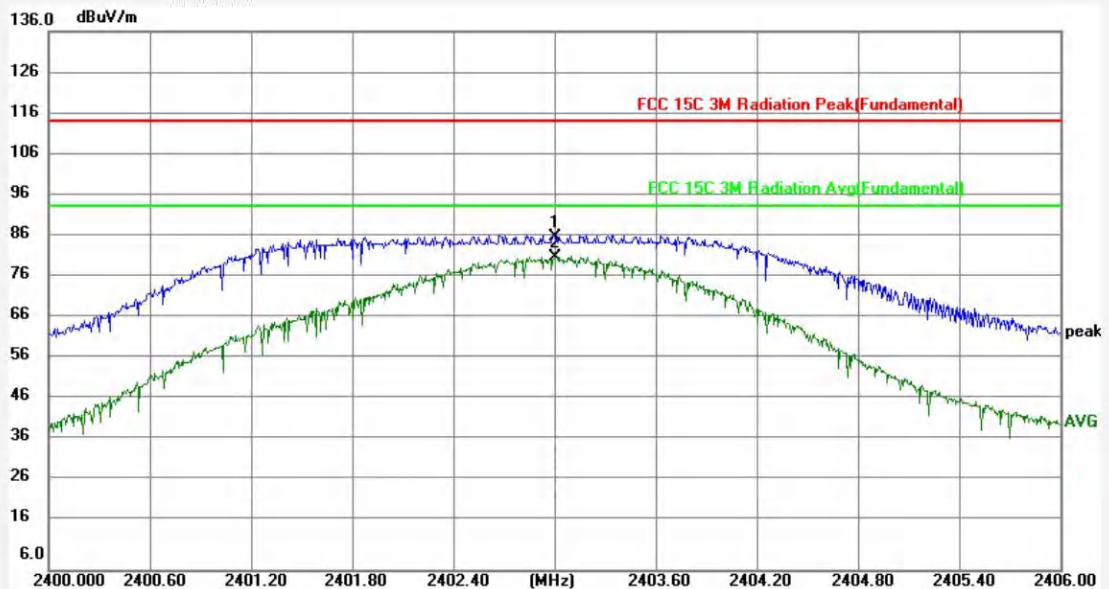
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2403.000	-4.78	91.13	86.35	114.00	-27.65	peak		
2	2403.000	-4.78	86.32	81.54	94.00	-12.46	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-Fundamental\Data :#2





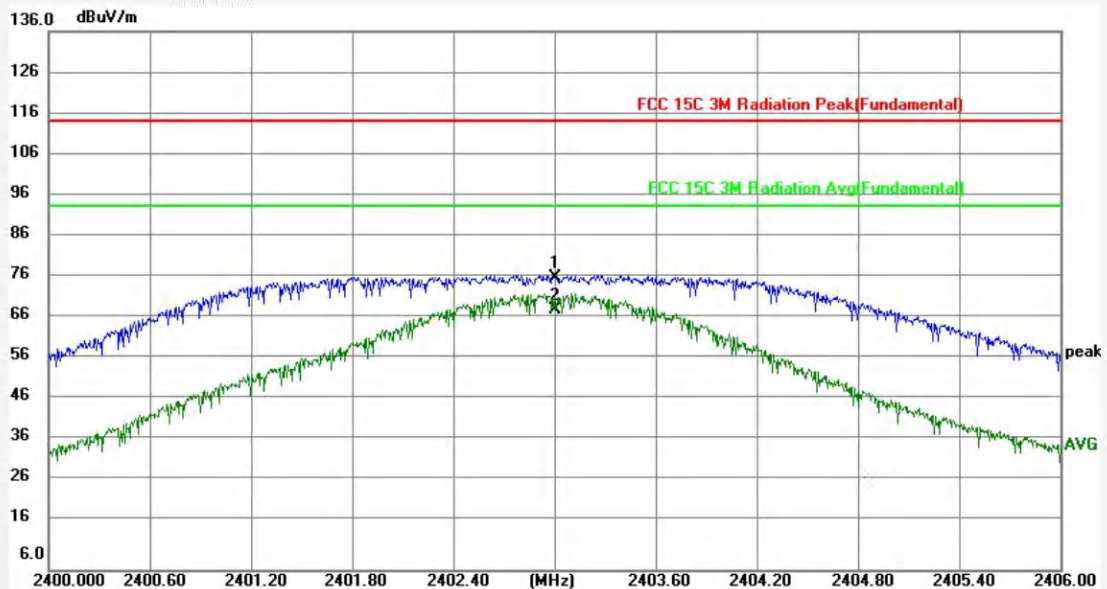
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC 15C 3M Radiation Peak(Fundamental)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2403.000	-4.78	81.42	76.64	114.00	-37.36	peak		
2	2403.000	-4.78	73.66	68.88	94.00	-25.12	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-Fundamental\Data :#1

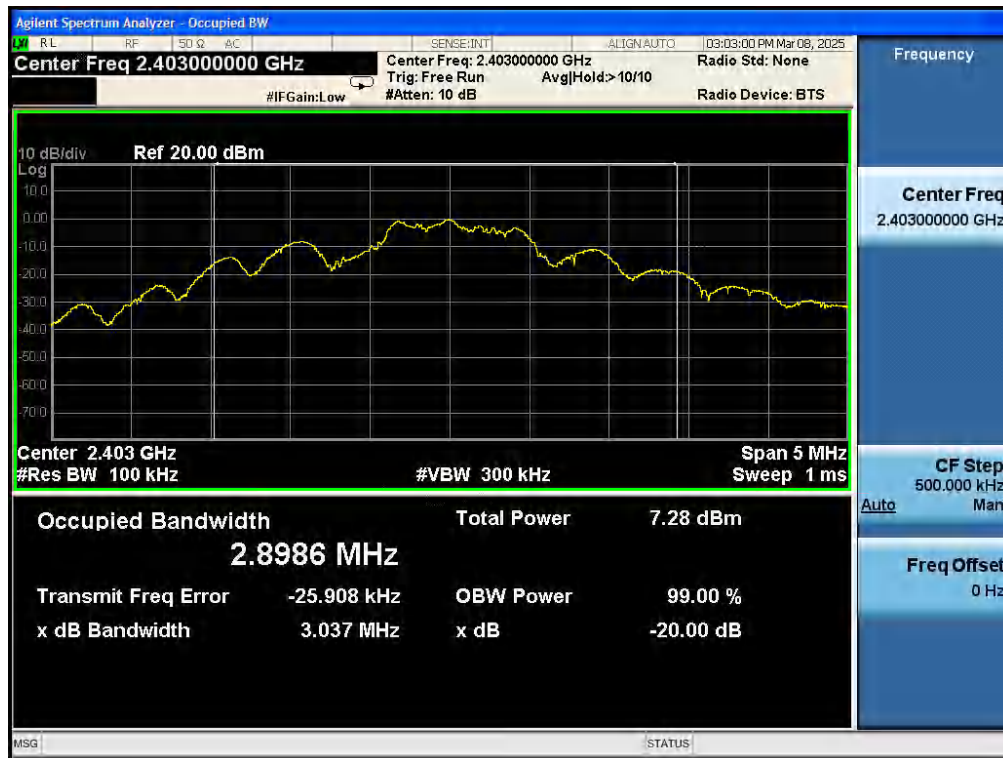


Appendix B.2: 20dB and 99% Bandwidth

Channel	Test Mode Test Channel (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (MHz)
Low Channel	2403	3037	2907.7	Within the assigned frequency band 2400~2483.5MHz
Middle Channel	2444	2364	2392.6	
High Channel	2480	1957	1815.4	
Maximum Measured Value	Maximum Measured Value	3037	2907.7	

Test Plot of 20dB Bandwidth

Low CH



Middle CH

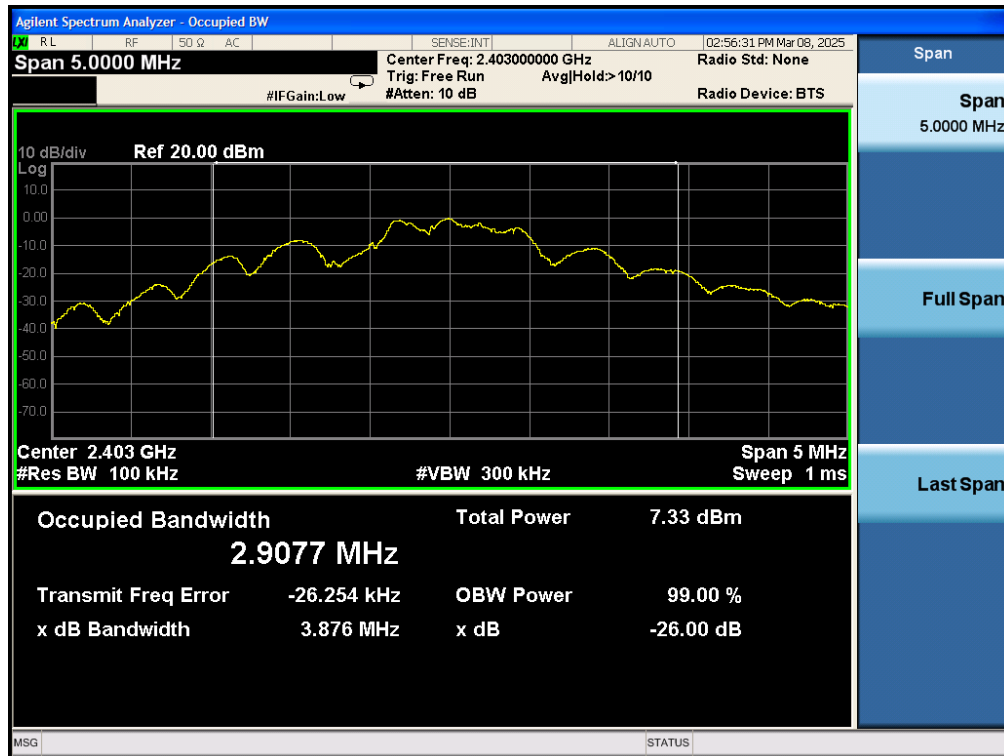


High CH

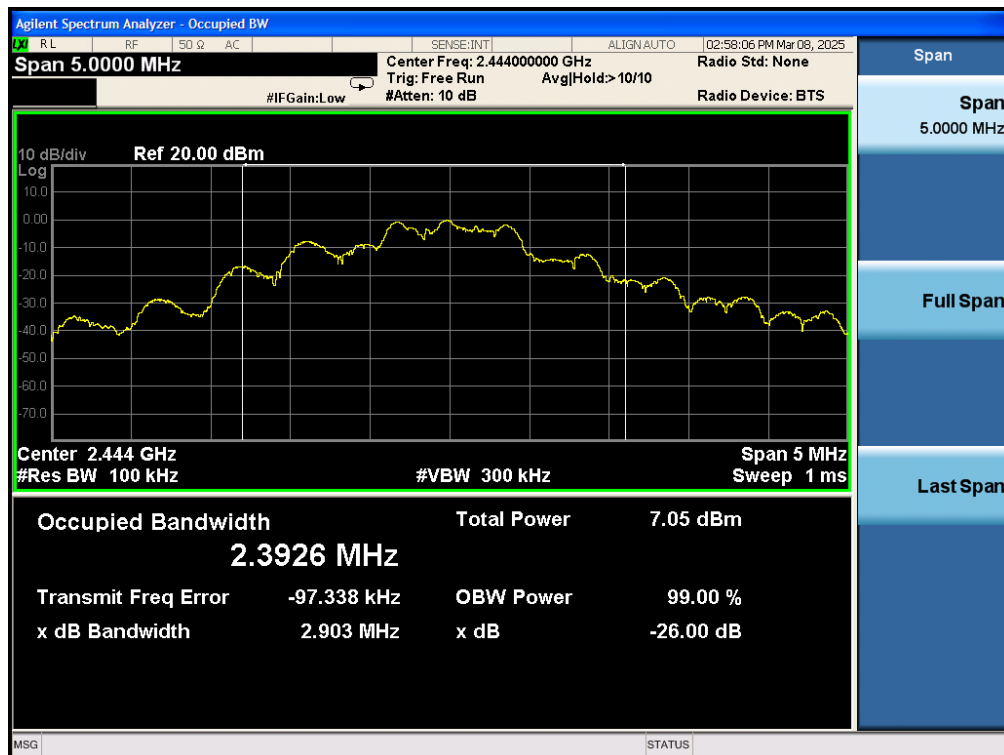


Test Plot of 99% Bandwidth

Low CH



Middle CH



High CH



Appendix B.3: Harmonics Radiated Emission

Note:

- 1) This testing was carried out on different modulations, 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.

30MHz - 1GHz



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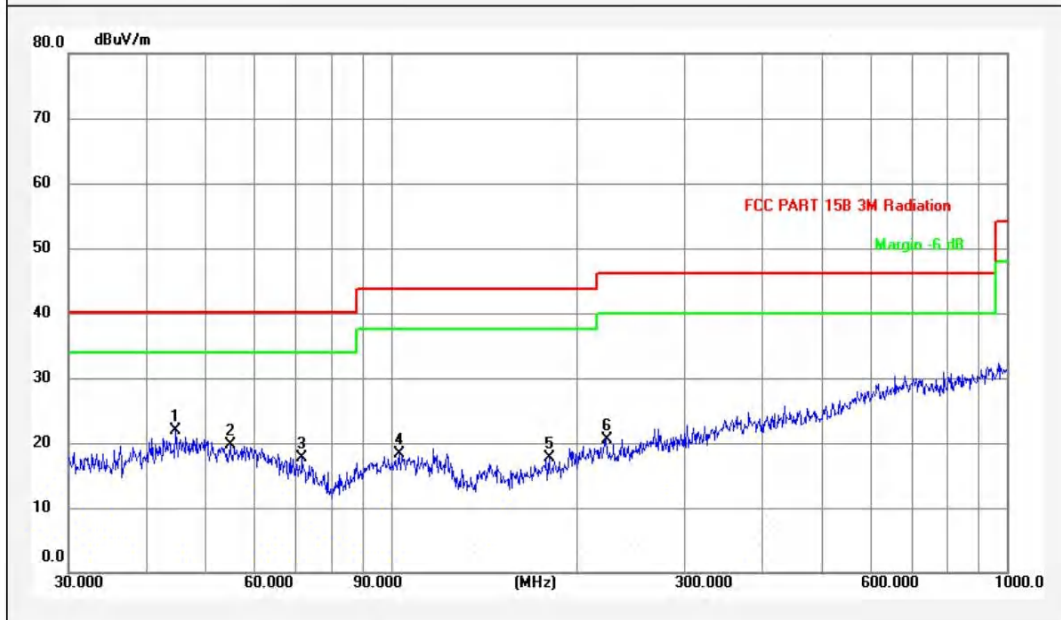
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Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1496	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2480MHZ		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	44.7433	12.70	9.25	21.95	40.00	-18.05	QP	*	
2	54.8348	11.91	7.78	19.69	40.00	-20.31	QP		
3	71.8320	8.44	9.31	17.75	40.00	-22.25	QP		
4	103.0800	10.40	7.93	18.33	43.50	-25.17	QP		
5	180.6488	9.01	8.60	17.61	43.50	-25.89	QP		
6	223.7334	11.00	9.60	20.60	46.00	-25.40	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1GData :#6





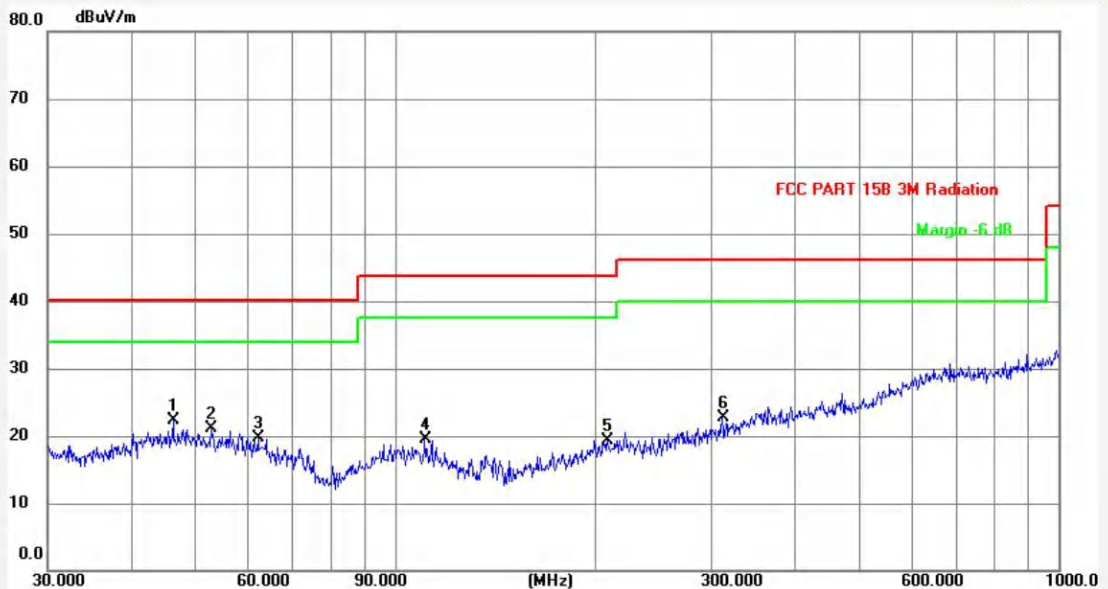
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Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1496	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2480MHZ		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.3402	12.67	9.59	22.26	40.00	-17.74	QP	*	
2	52.9453	12.10	9.03	21.13	40.00	-18.87	QP		
3	62.2128	10.85	8.83	19.68	40.00	-20.32	QP		
4	110.9571	9.89	9.68	19.57	43.50	-23.93	QP		
5	209.3129	10.87	8.39	19.26	43.50	-24.24	QP		
6	311.0867	12.91	9.70	22.61	46.00	-23.39	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1GData :#5





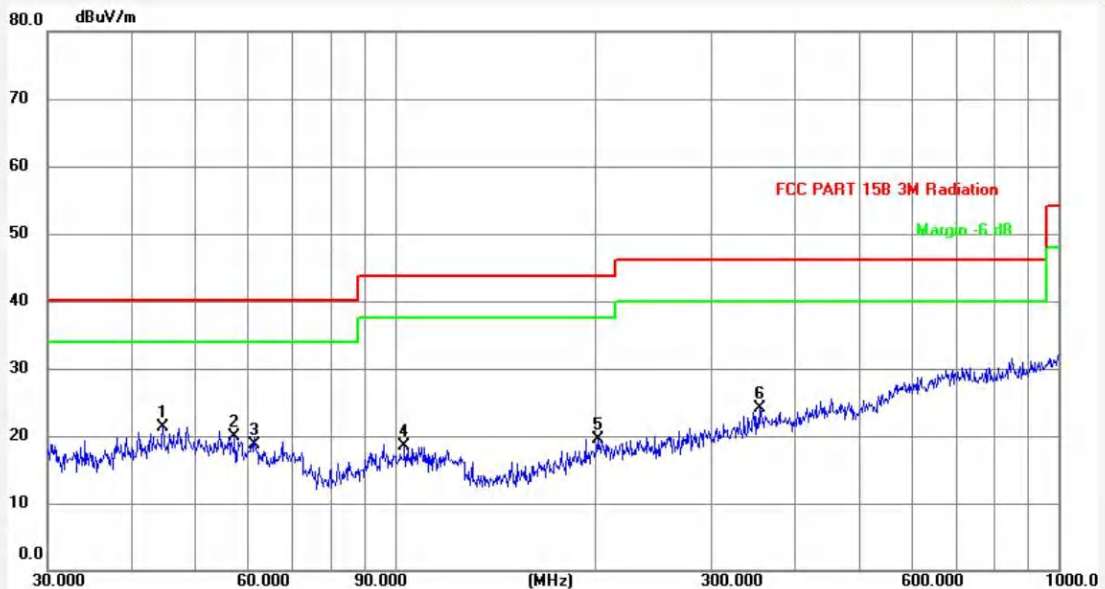
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Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:		Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2444MHZ		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	44.7433	12.70	8.69	21.39	40.00	-18.61	QP	*	
2	57.3923	11.65	8.19	19.84	40.00	-20.16	QP		
3	61.5618	11.00	7.72	18.72	40.00	-21.28	QP		
4	103.4421	10.38	8.16	18.54	43.50	-24.96	QP		
5	202.1005	10.82	8.70	19.52	43.50	-23.98	QP		
6	354.1831	14.56	9.49	24.05	46.00	-21.95	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1G\Data :#4





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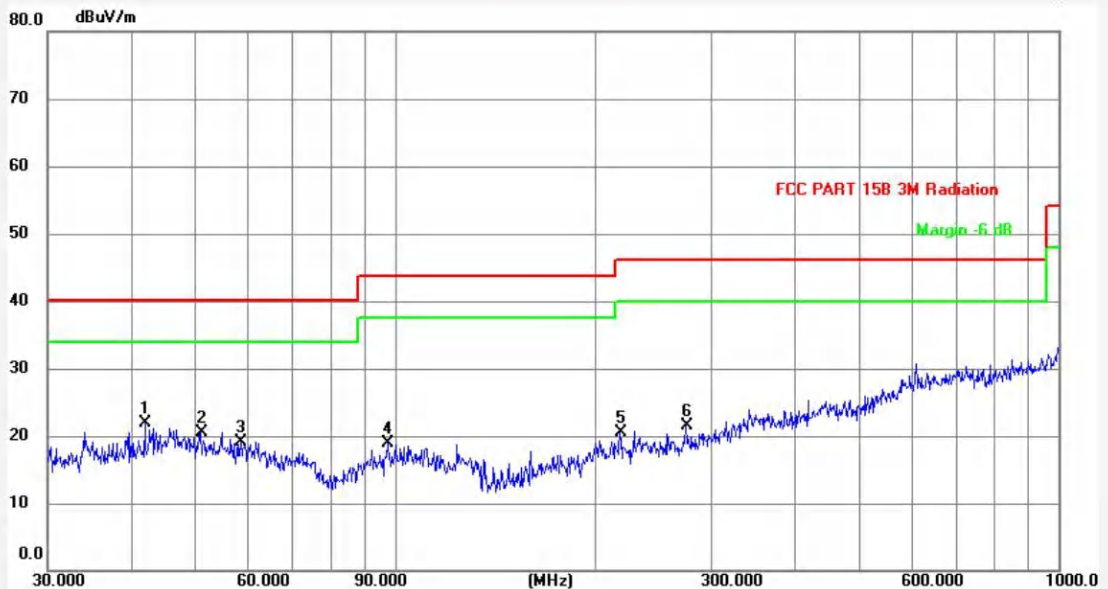
Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1496
Test Mode: TX
Remark 1: 2444MHZ

Temp: 24.2 (C) / 57 %RH/ 1013
Test Engineer: Kervin
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	42.0066	11.98	9.89	21.87	40.00	-18.13	QP	*	
2	50.9420	12.31	8.10	20.41	40.00	-19.59	QP		
3	58.6126	11.52	7.53	19.05	40.00	-20.95	QP		
4	97.4560	10.12	8.74	18.86	43.50	-24.64	QP		
5	218.3085	10.96	9.60	20.56	46.00	-25.44	QP		
6	274.1939	11.70	9.83	21.53	46.00	-24.47	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1GData :#3





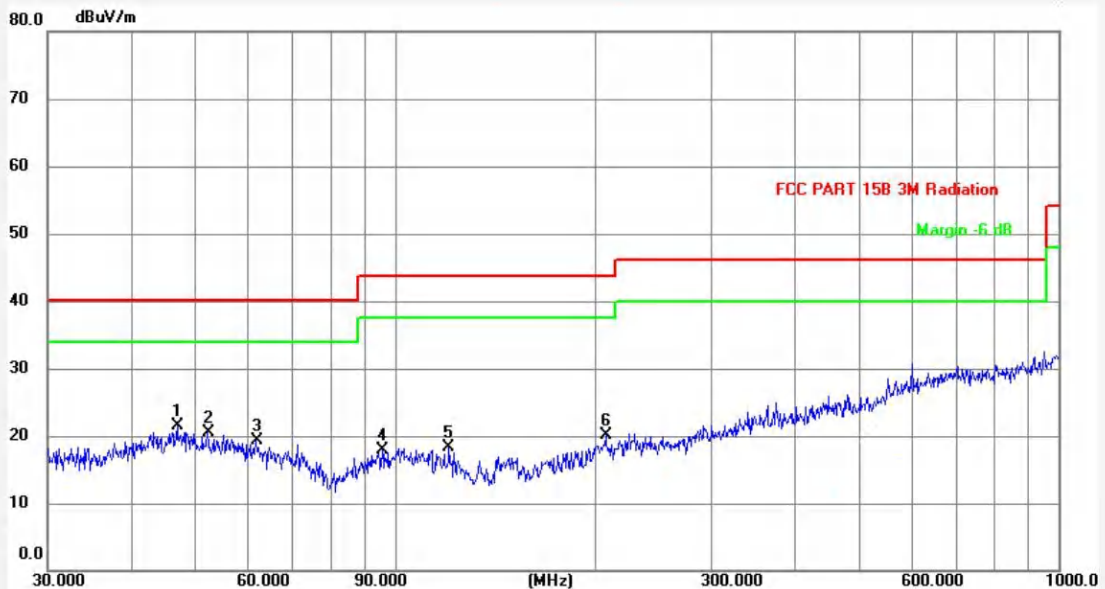
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Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1496	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2403MHZ		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.9948	12.62	8.85	21.47	40.00	-18.53	QP	*	
2	52.2079	12.18	8.41	20.59	40.00	-19.41	QP		
3	61.7781	10.95	8.30	19.25	40.00	-20.75	QP		
4	95.7622	9.81	8.12	17.93	43.50	-25.57	QP		
5	120.6991	9.18	9.12	18.30	43.50	-25.20	QP		
6	207.8501	10.86	9.16	20.02	43.50	-23.48	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1GData :#2





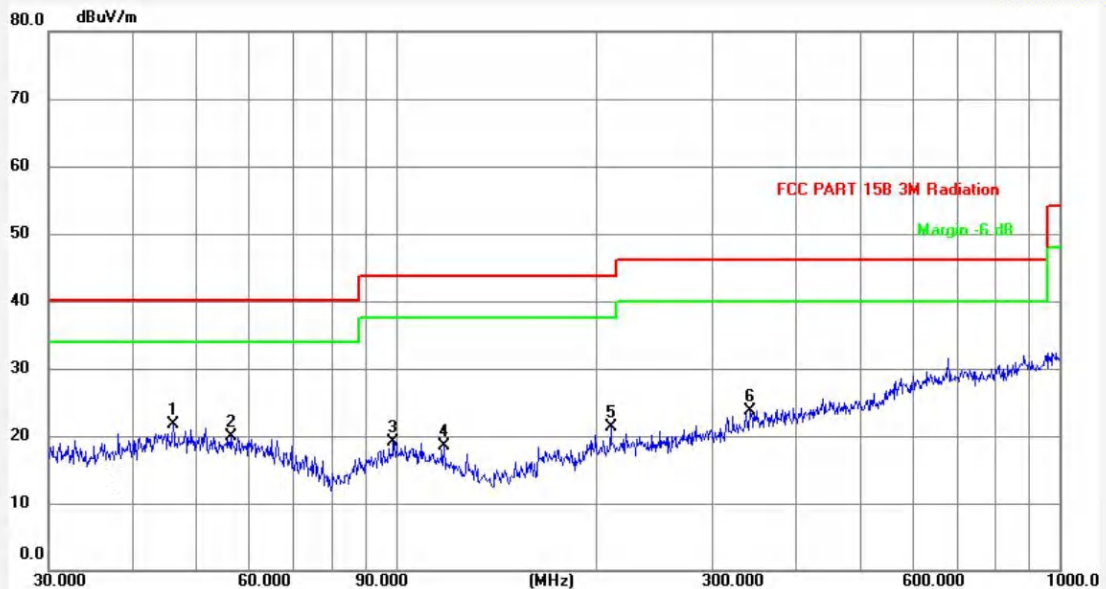
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Radiation Emission

Site: 966 Chamber 1

2025/3/8

Job No.:		Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2403MHZ		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.1779	12.69	8.98	21.67	40.00	-18.33	QP	*	
2	56.3948	11.75	8.21	19.96	40.00	-20.04	QP		
3	99.1797	10.44	8.64	19.08	43.50	-24.42	QP		
4	118.1862	9.42	9.14	18.56	43.50	-24.94	QP		
5	210.7860	10.89	10.39	21.28	43.50	-22.22	QP		
6	341.9786	14.21	9.43	23.64	46.00	-22.36	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-30-1G\Data :#1



1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Fundamental.



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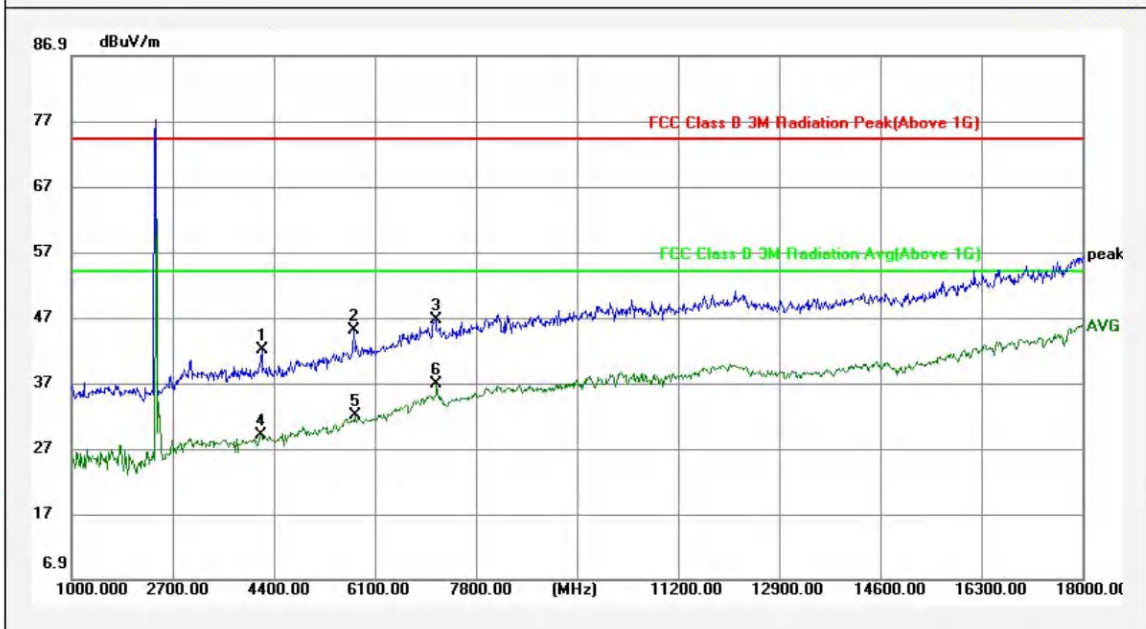
Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1496
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.7 (C) / 57 %RH/ 983 hpa
Test Engineer: Kervin
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4196.000	-0.92	42.84	41.92	74.00	-32.08	peak		
2	5743.000	1.75	43.24	44.99	74.00	-29.01	peak		
3	7120.000	5.72	40.84	46.56	74.00	-27.44	peak		
4	4179.000	-0.90	30.00	29.10	54.00	-24.90	AVG		
5	5760.000	1.80	30.28	32.08	54.00	-21.92	AVG		
6	7137.000	5.71	31.13	36.84	54.00	-17.16	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#6





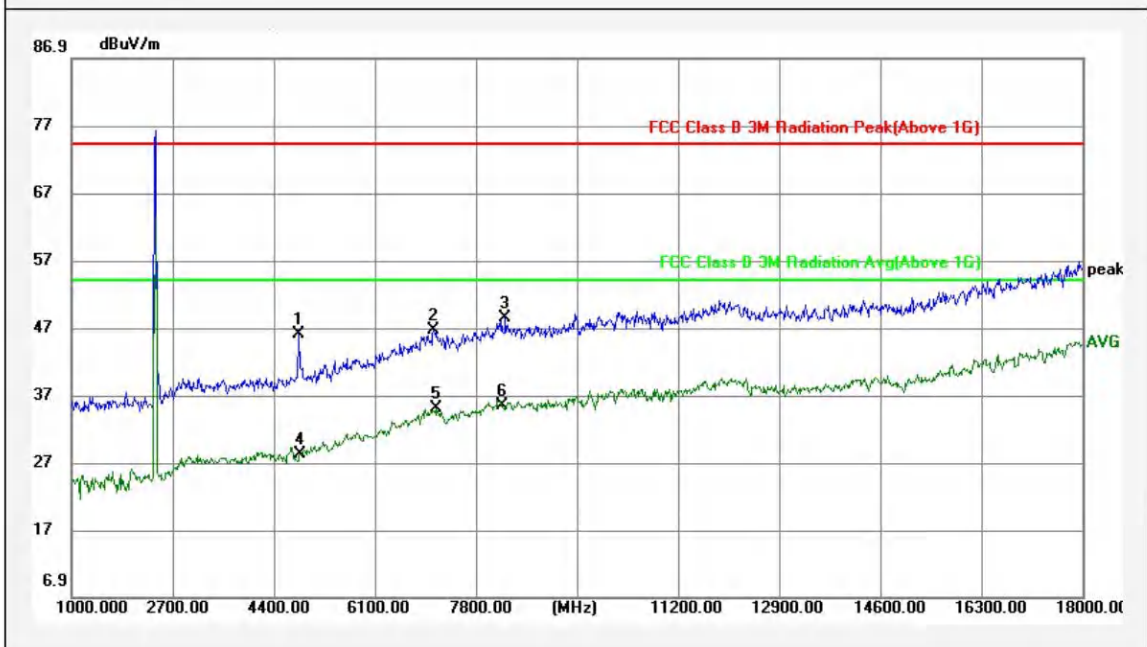
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4825.000	-1.02	46.98	45.96	74.00	-28.04	peak		
2	7086.000	5.73	40.90	46.63	74.00	-27.37	peak		
3	8293.000	5.74	42.67	48.41	74.00	-25.59	peak		
4	4842.000	-1.01	29.13	28.12	54.00	-25.88	AVG		
5	7120.000	5.72	29.19	34.91	54.00	-19.09	AVG		
6	8242.000	5.63	29.86	35.49	54.00	-18.51	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#5





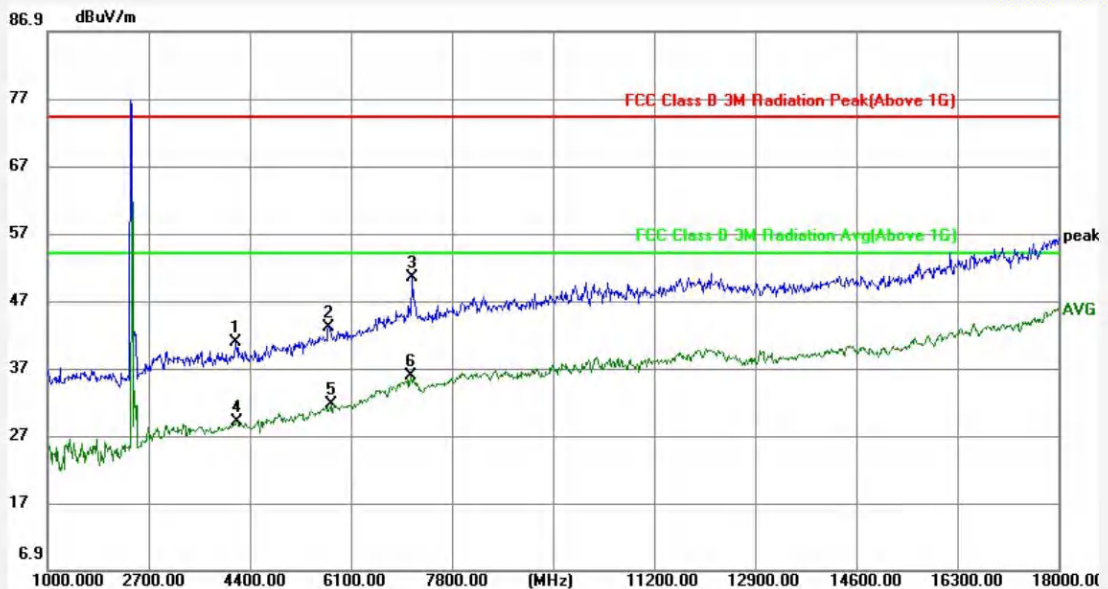
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2444MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4162.000	-0.90	41.69	40.79	74.00	-33.21	peak		
2	5726.000	1.69	41.37	43.06	74.00	-30.94	peak		
3	7137.000	5.71	44.79	50.50	74.00	-23.50	peak		
4	4179.000	-0.90	30.00	29.10	54.00	-24.90	AVG		
5	5760.000	1.80	29.78	31.58	54.00	-22.42	AVG		
6	7103.000	5.72	30.09	35.81	54.00	-18.19	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#4





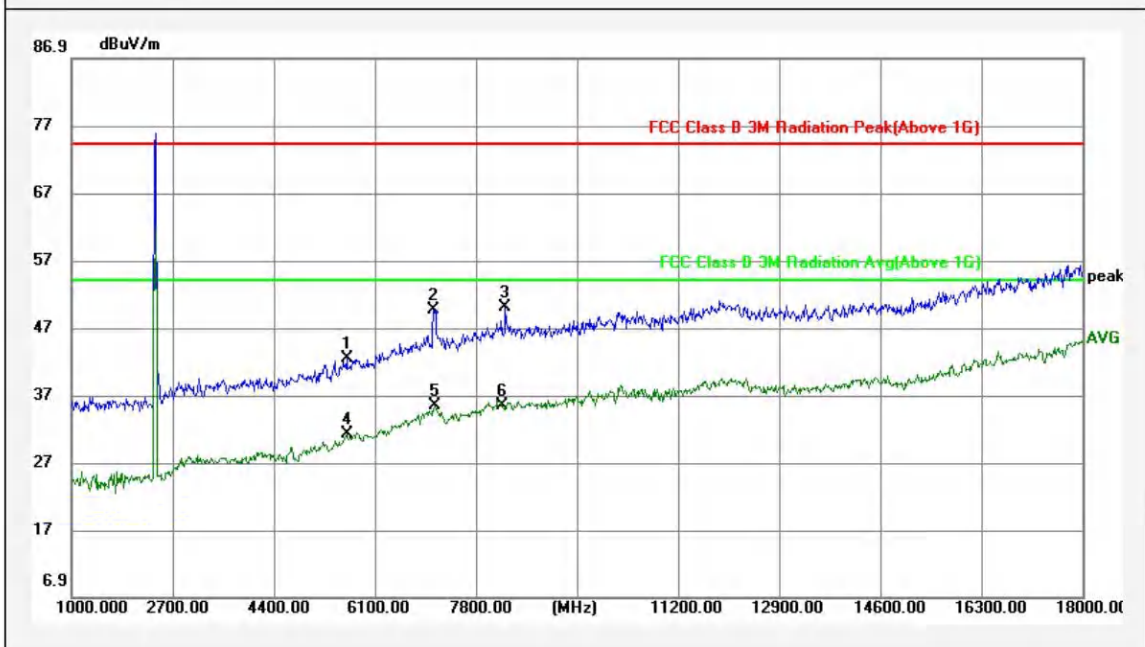
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2444MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	5624.000	1.34	41.04	42.38	74.00	-31.62	peak		
2	7086.000	5.73	43.90	49.63	74.00	-24.37	peak		
3	8293.000	5.74	44.17	49.91	74.00	-24.09	peak		
4	5624.000	1.34	29.91	31.25	54.00	-22.75	AVG		
5	7103.000	5.72	29.62	35.34	54.00	-18.66	AVG		
6	8242.000	5.63	29.86	35.49	54.00	-18.51	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#3





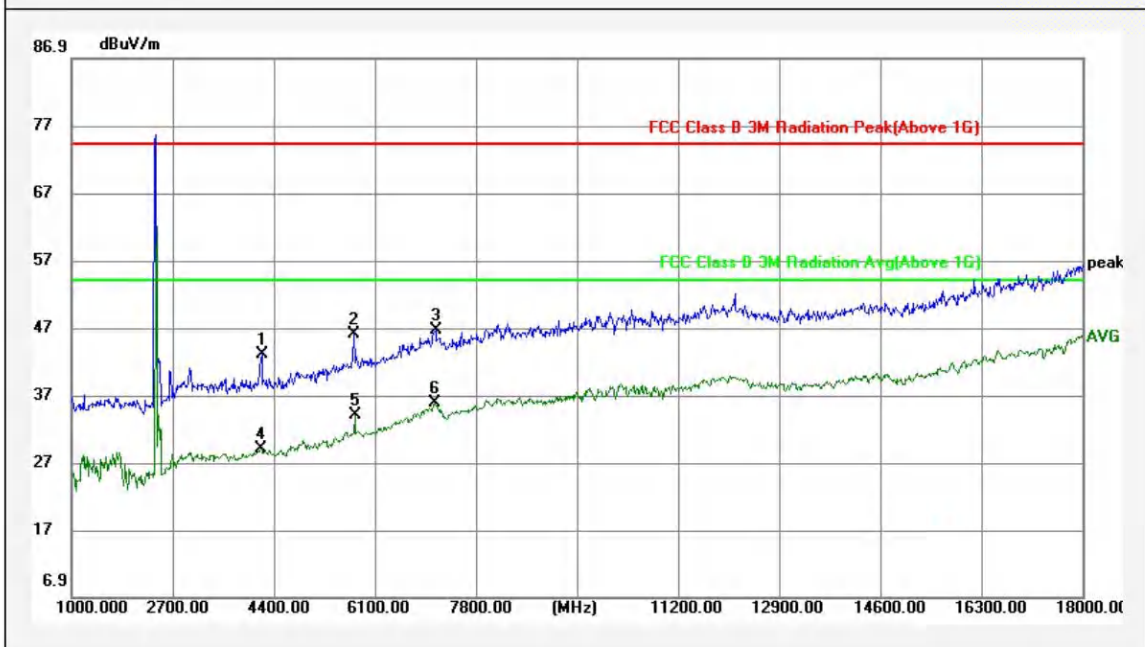
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4196.000	-0.92	43.84	42.92	74.00	-31.08	peak		
2	5743.000	1.75	44.24	45.99	74.00	-28.01	peak		
3	7120.000	5.72	40.84	46.56	74.00	-27.44	peak		
4	4179.000	-0.90	30.00	29.10	54.00	-24.90	AVG		
5	5760.000	1.80	32.28	34.08	54.00	-19.92	AVG		
6	7103.000	5.72	30.09	35.81	54.00	-18.19	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#2





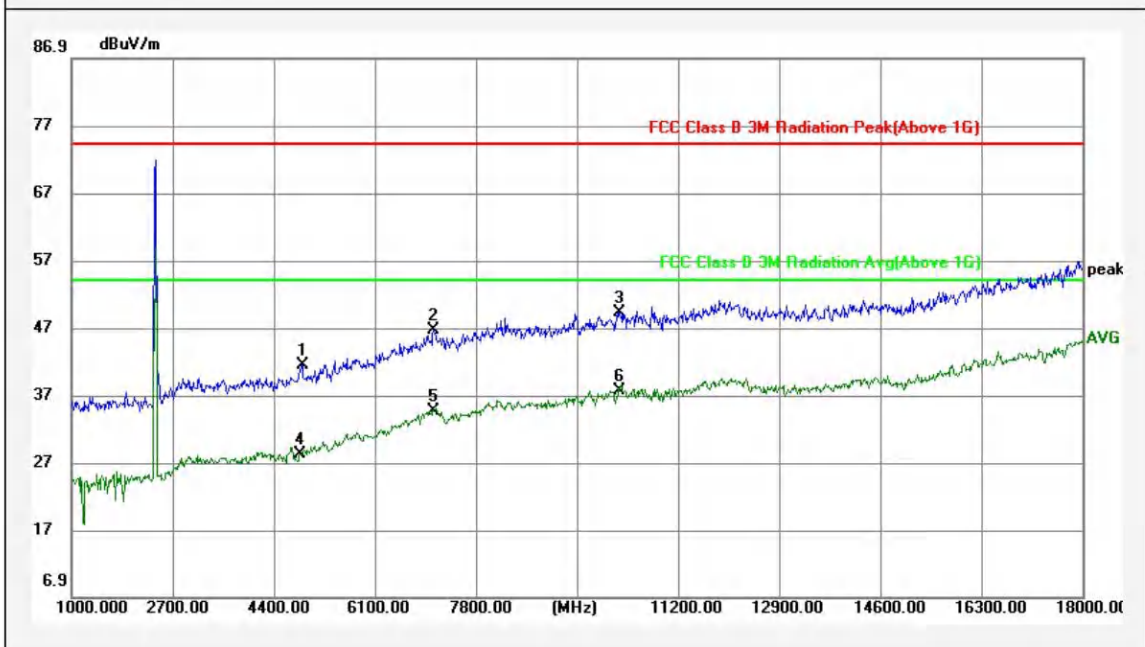
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4876.000	-1.01	42.43	41.42	74.00	-32.58	peak		
2	7086.000	5.73	40.90	46.63	74.00	-27.37	peak		
3	10214.000	8.19	41.04	49.23	74.00	-24.77	peak		
4	4842.000	-1.01	29.13	28.12	54.00	-25.88	AVG		
5	7086.000	5.73	28.88	34.61	54.00	-19.39	AVG		
6	10214.000	8.19	29.49	37.68	54.00	-16.32	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-RSE\Data :#1



Appendix B.4: Test Results of Radiated Emissions in Restricted Bands

Low channel



Dongguan Lepont Testing Service Co., Ltd.

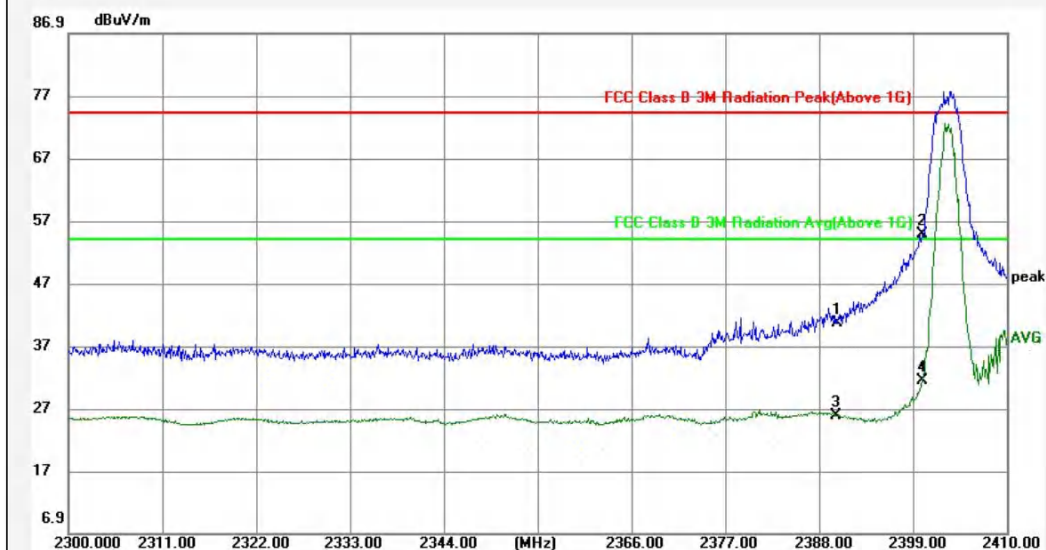
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-4.83	45.42	40.59	74.00	-33.41	peak		
2	2400.000	-4.79	59.67	54.88	74.00	-19.12	peak	*	
3	2389.980	-4.83	30.73	25.90	54.00	-28.10	AVG		
4	2400.100	-4.79	36.19	31.40	54.00	-22.60	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-BAND1Data :#2





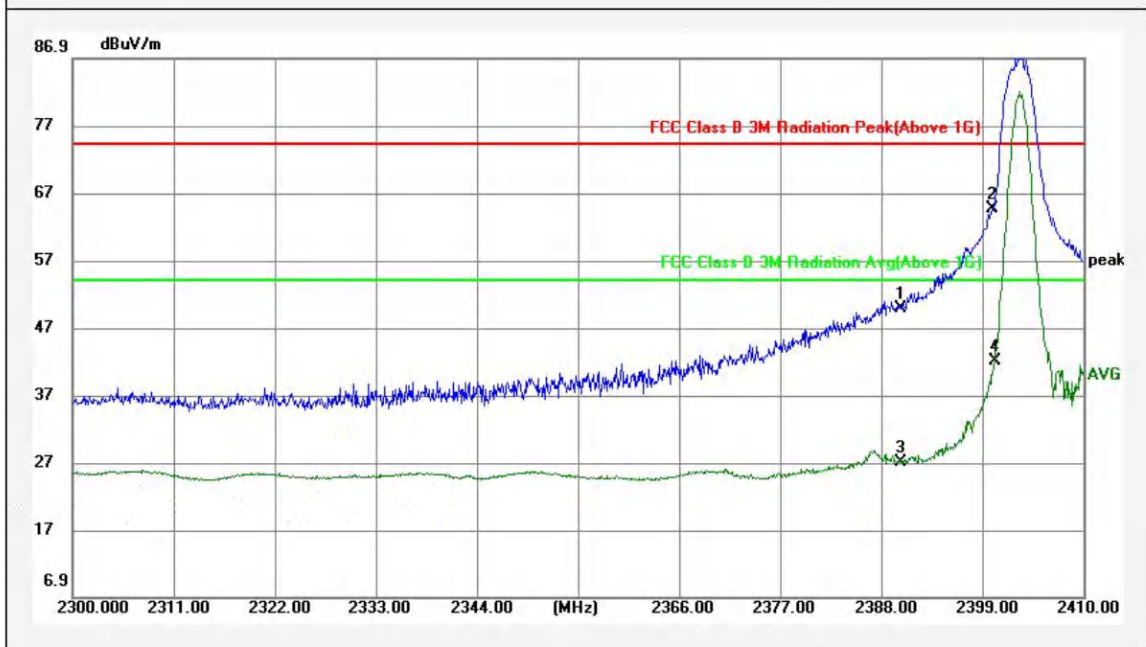
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1496	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2403MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-4.83	54.64	49.81	74.00	-24.19	peak		
2	2400.000	-4.79	69.40	64.61	74.00	-9.39	peak	*	
3	2390.090	-4.83	31.82	26.99	54.00	-27.01	AVG		
4	2400.320	-4.79	46.79	42.00	54.00	-12.00	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1496-BAND\Data :#1



High channel



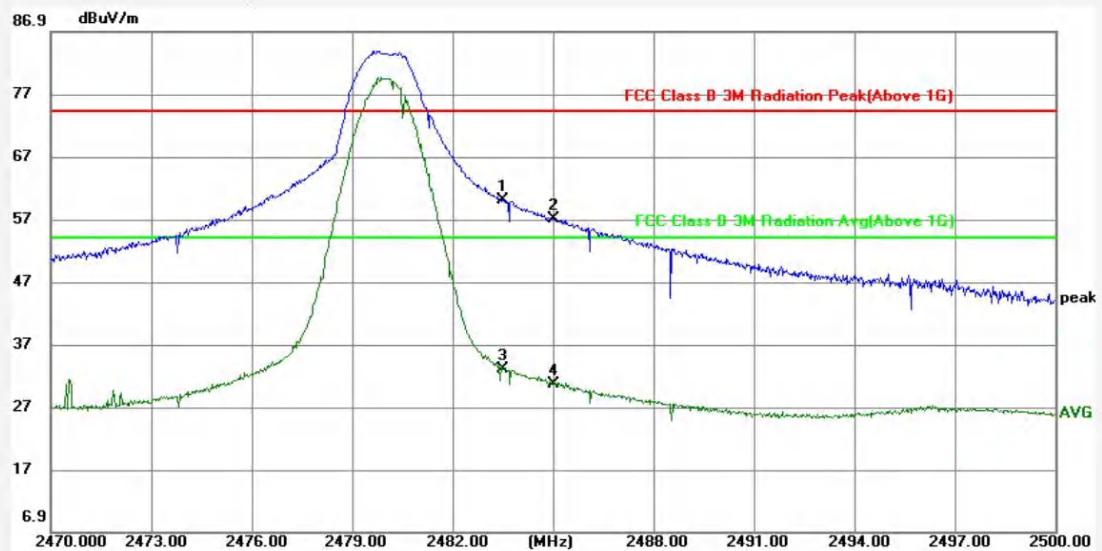
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Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:		Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1496	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-4.46	64.41	59.95	74.00	-14.05	peak	*	
2	2485.000	-4.46	61.48	57.02	74.00	-16.98	peak		
3	2483.500	-4.46	37.49	33.03	54.00	-20.97	AVG		
4	2485.000	-4.46	34.98	30.52	54.00	-23.48	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1496-BAND\Data :#4





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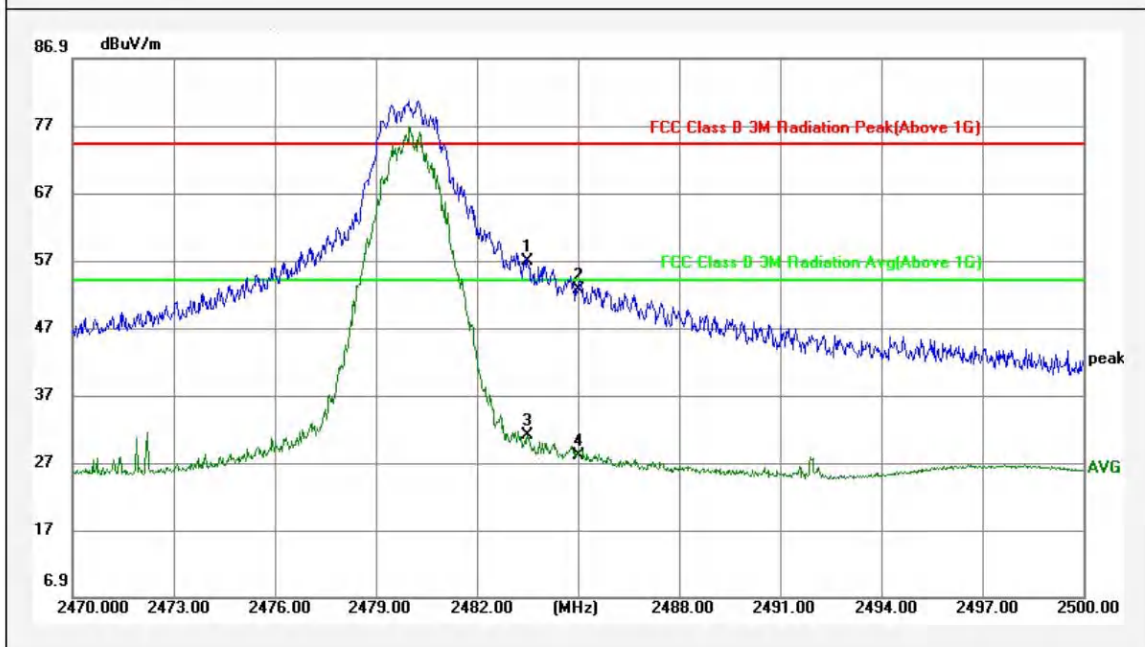
Radiation Emission

Site: 966 Chamber 1

2025/3/7

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1496
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.7 (C) / 57 %RH/ 983 hpa
Test Engineer: Kervin
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-4.46	61.18	56.72	74.00	-17.28	peak	*	
2	2485.000	-4.46	57.08	52.62	74.00	-21.38	peak		
3	2483.500	-4.46	35.41	30.95	54.00	-23.05	AVG		
4	2485.000	-4.46	32.48	28.02	54.00	-25.98	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1496-BAND\Data :#3





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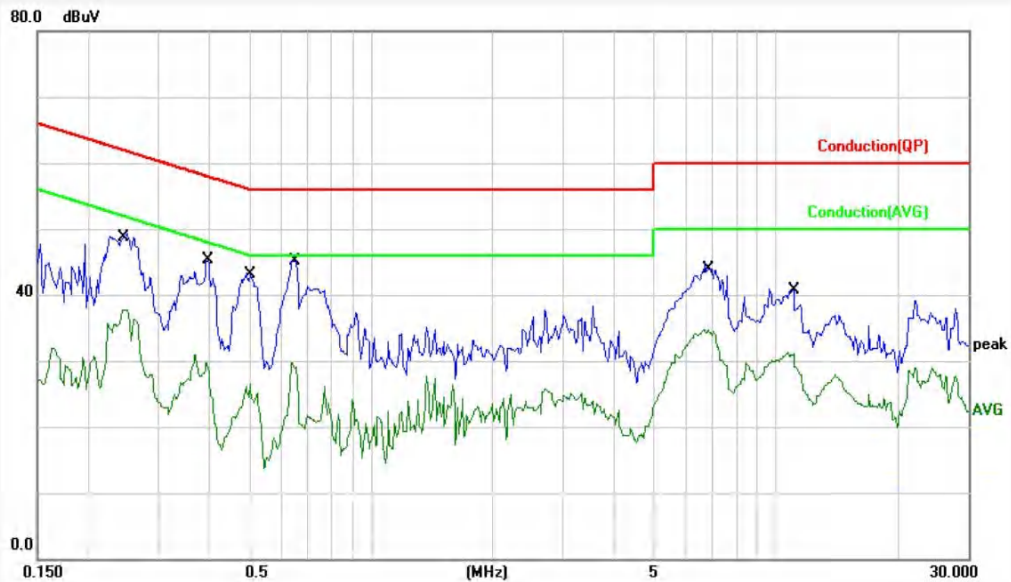
Conduction Emission

Site:Shielded Room 1

2025/3/4

Job No.:
Test Standard: Conduction(QP)
EUT: Incase Sculpt Ergonomic Keyboard
Model No.: OB1559, OB1558, OB1496
Test Mode: Working
Remark:

Temp: 23.9(C) / 56 % / 1013 hpa
Test Engineer: Lucas
Power Rating: DC 5V
Phase: L1



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2436	10.33	35.56	45.89	61.97	-16.08	QP	P	
2	0.2436	10.33	27.30	37.63	51.97	-14.34	AVG	P	
3	0.3930	10.37	32.02	42.39	58.00	-15.61	QP	P	
4	0.3930	10.37	19.28	29.65	48.00	-18.35	AVG	P	
5	0.5036	10.40	29.84	40.24	56.00	-15.76	QP	P	
6	0.5036	10.40	16.03	26.43	46.00	-19.57	AVG	P	
7	0.6393	10.45	31.69	42.14	56.00	-13.86	QP	P	
8	0.6393	10.45	19.26	29.71	46.00	-16.29	AVG	P	
9	6.8410	10.80	31.14	41.94	60.00	-18.06	QP	P	
10	6.8410	10.80	23.76	34.56	50.00	-15.44	AVG	P	
11	11.0211	10.98	26.71	37.69	60.00	-22.31	QP	P	
12	11.0211	10.98	19.99	30.97	50.00	-19.03	AVG	P	

Note: Level=Reading+Factor.

Margin=Level-Limit.

File:OB1559, OB1558, OB1496#2





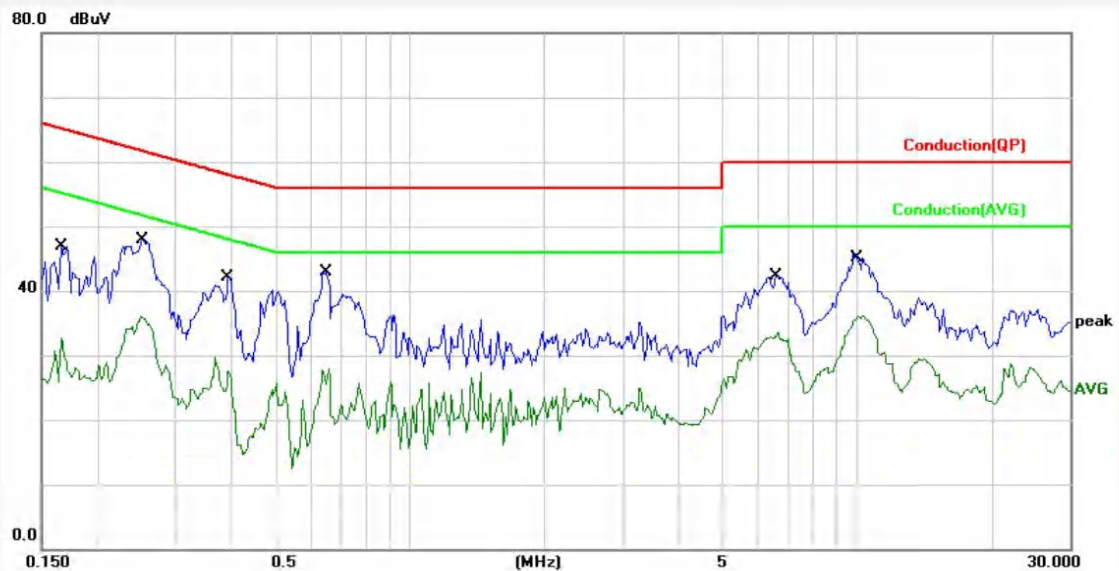
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Conduction Emission

Site:Shielded Room 1

2025/3/4

Job No.:		Temp:	23.9(C) / 56 % / 1013 hpa
Test Standard:	Conduction(QP)	Test Engineer:	Lucas
EUT:	Incase Sculpt Ergonomic Keyboard	Power Rating:	DC 5V
Model No.:	OB1559, OB1558, OB1496	Phase:	N
Test Mode:	Working		
Remark:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1663	10.35	33.64	43.99	65.14	-21.15	QP	P	
2	0.1663	10.35	22.40	32.75	55.14	-22.39	AVG	P	
3	0.2497	10.37	34.76	45.13	61.77	-16.64	QP	P	
4	0.2497	10.37	25.79	36.16	51.77	-15.61	AVG	P	
5	0.3930	10.41	28.78	39.19	58.00	-18.81	QP	P	
6	0.3930	10.41	17.00	27.41	48.00	-20.59	AVG	P	
7	0.6393	10.46	29.40	39.86	56.00	-16.14	QP	P	
8	0.6393	10.46	17.26	27.72	46.00	-18.28	AVG	P	
9	6.6554	10.77	28.60	39.37	60.00	-20.63	QP	P	
10	6.6554	10.77	22.82	33.59	50.00	-16.41	AVG	P	
11	10.0721	10.95	31.78	42.73	60.00	-17.27	QP	P	
12	10.0721	10.95	25.10	36.05	50.00	-13.95	AVG	P	

Note: Level=Reading+Factor.

Margin=Level-Limit.

File:OB1559, OB1558, OB1496\#1

