

Prüfbericht-Nr.: Test report no.:	CN247FNG 001	Auftrags-Nr.: Order no.:	170392032	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024.10.25	
Auftraggeber: Client:	ONWARD BRANDS LLC 767 5TH AVE FL 37TH NEW YORK, NY 10153, USA			
Prüfgegenstand: Test item:	Incase Compact Ergonomic Keyboard			
Bezeichnung / Typ-Nr.: Identification / Type no.:	OB1966			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR Title 47, Part 15, Subpart C, Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: Date of sample receipt:	2024.10.25	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	LP24070228C12-S083			
Prüfzeitraum: Testing period:	2025.01.07 to 2025.01.09			
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: 2025-02-10	Signed by: Amy Wang		Ausstellungsdatum: Issue date: 2025-02-10	Signed by: Storm Shu
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BCOY-OB1966 IC: 32736-OB1966 HVIN: OB1966			
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. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN247FNG 001
Test report no.:

Page 2 of 20
Seite 2 von 20

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>

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 3 von 20
Page 3 of 20

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

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	6
2.1	TEST FACILITIES	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY.....	7
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	9
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	9
3.5	SUBMITTED DOCUMENTS.....	9
4	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION	10
4.2	TEST OPERATION AND TEST SOFTWARE.....	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	10
4.5	TEST SETUP DIAGRAM	11
5	TEST RESULTS	13
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1	Antenna Requirement	13
5.1.2	Maximum Peak Conducted Output Power	14
5.1.3	Conducted Power Spectral Density	15
5.1.4	6dB Bandwidth	16
5.1.5	99% Bandwidth	17
5.1.6	Conducted Spurious Emissions Measured in 100 kHz Bandwidth	18
5.1.7	Radiated Spurious Emission	19
6	PHOTOGRAPHS OF THE TEST SET-UP	20
7	LIST OF TABLES.....	20

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 of Bluetooth Low energy

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. 25, 2025
Vector source	Agilent	N5182A	MY47420382	Jan. 25, 2025
Analog signal source	Agilent	N5171B	MY51350292	Jan. 25, 2025
All instrument	Rohde & Schwarz	CMW 500	1201.002K50	Jan. 25, 2025
High and low temperature chamber	Math-mart	MT-1202-40	LEP-E041	Jan. 25, 2025
control unit	Tonscend	JS0806-2	10165	Jan. 25, 2025
Testing software	Tonscend	JSTSN/A1120-3	Ver 2.6.77.0518	Jan. 25, 2025
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	RohdeDec.c22arz	ESR 3	101849	Jan. 30, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	743	Nov. 19, 2025
Jan. 06, 2026	Jan. 06, 2026	Jan. 06, 2026	1726A01222	Jan. 23, 2025
SpecJan. 06, 2026	Agilent	N9020A	MY49100060	Nov. 19, 2025
HoNovan19nna	Schwarzbeck	BBHA 9120D	01875	Jan. 23, 2025
Jan. 06, 2026	Jan. 06, 2026	BBN 9718B	00010	Jan. 06, 2026
Jan. 06, 2026	RswTech	5W 6dB	LEP-E084	Jan. 23, 2025
966 Chamber 1	MR	MR-L02	LEP-E051	Nov. 16, 2025
Test software	EZ-EMC	Fala	EMEC-3A1	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 Bluetooth mouse, which supports Bluetooth (Low Energy) wireless technology.

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:	Incase Compact Ergonomic Keyboard
Type Designation:	OB1966
FCC ID:	2BCOY-OB1966
IC:	32736-OB1966
HVIN:	OB1966A
Rated Input	DC 3V, 100mA
Operating Voltage:	DC 3V (supplied by "AA" battery x 2)
Testing Voltage:	DC 3V
Technical Specification of Bluetooth (Low Energy)	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1Mbps
Channel Separation:	2 MHz
Antenna Type:	PCB Layout antenna
Antenna Gain:	2.05 dBi

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

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Low Energy transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal Working with Bluetooth connected
- 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: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 5: 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)

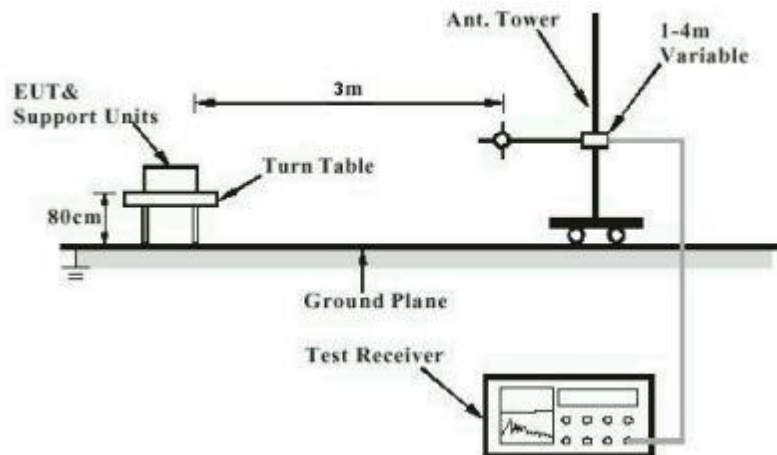


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

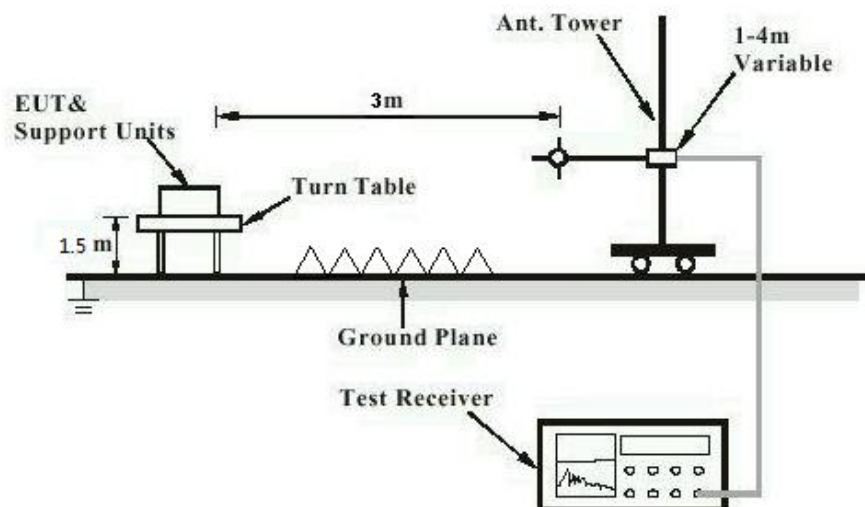


Diagram of Measurement Configuration for Mains Conduction Measurement

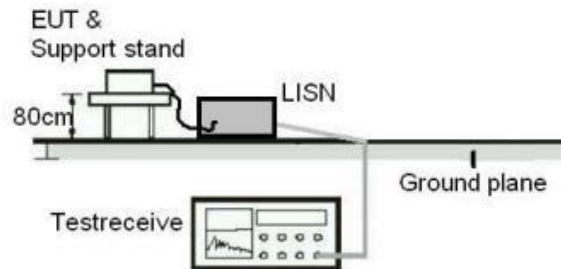
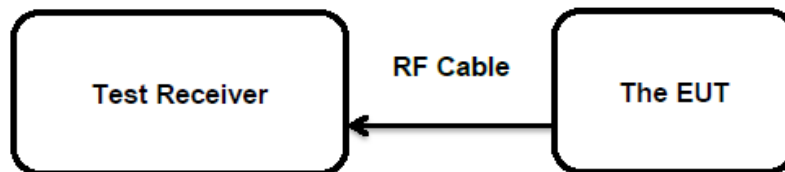


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

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

The EUT has an PCB antenna, the directional gain of antenna is 2.05 dBi, 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.

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 14 von 20
Page 14 of 20

5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(3)
RSS-247 Clause 5.4(d)
Basic standard : ANSI C63.10: 2013
Limits : 1.0 Watts
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-1-7
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.6 °C
Relative humidity : 49.2 %
Atmospheric pressure : 101 kPa

Table 6: 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)	1Mbps	2402	0.10	0.00102	< 1.0
		2440	-1.22	0.00076	
		2480	-0.65	0.00086	
Maximum Measured Value			0.10	0.00102	

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.05 dBi,
e.i.r.p.=P_(Peak power)+ G =2.15dBm ≈ 1.64 mW, which is far below the 4 W

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 15 von 20
Page 15 of 20

5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(b)
Basic standard : ANSI C63.10: 2013
Limits : < 8 dBm / 3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-1-7
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.6 °C
Relative humidity : 49.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 16 von 20
Page 16 of 20

5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(a)
Basic standard : ANSI C63.10: 2013
Limits : > 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-1-7
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.6 °C
Relative humidity : 49.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 17 von 20
Page 17 of 20

5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-1-7
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23.6 °C
Relative humidity : 49.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 18 von 20
Page 18 of 20

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 5.5
Basic standard	: ANSI C63.10: 2013
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	: 2025-1-7
Input voltage	: DC 3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 49.2 %
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.

Prüfbericht - Nr.: CN247FNG 001
Test Report No.:

Seite 19 von 20
Page 19 of 20

5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 3.3
Basic standard : ANSI C63.10: 2013
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 : 2025-1-9
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101.3 kPa

Remark:

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

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.

7 List of Tables

Table 1: List of Test and Measurement Equipment..... 6
 Table 2: Measurement Uncertainty 7
 Table 3: Technical Specification of EUT 8
 Table 4: RF Channel and Frequency of Bluetooth (Low Energy) 8
 Table 5: Auxiliary Equipment Used during Test 10
 Table 6: Test Result of Maximum Peak Conducted Output Power..... 14

APPENDIX B: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

APPENDIX B: TEST RESULTS OF BLUETOOTH (LOW ENERGY)	1
APPENDIX B.1: MAXIMUM CONDUCTED OUTPUT POWER.....	2
APPENDIX B.2: CONDUCTED POWER SPECTRAL DENSITY	5
APPENDIX B.3: 6dB BANDWIDTH.....	7
APPENDIX B.4: 99% BANDWIDTH	9
APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH.....	11
APPENDIX B.6: RADIATED SPURIOUS EMISSIONS	15
APPENDIX B.7: RADIATED EMISSIONS IN RESTRICTED BANDS	27

APPENDIX B.1: MAXIMUM CONDUCTED OUTPUT POWER**Test Result Peak**

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.10	≤30	2.15	≤36	PASS
		2440	-1.22	≤30	0.83	≤36	PASS
		2480	-0.65	≤30	1.40	≤36	PASS

Appendix B

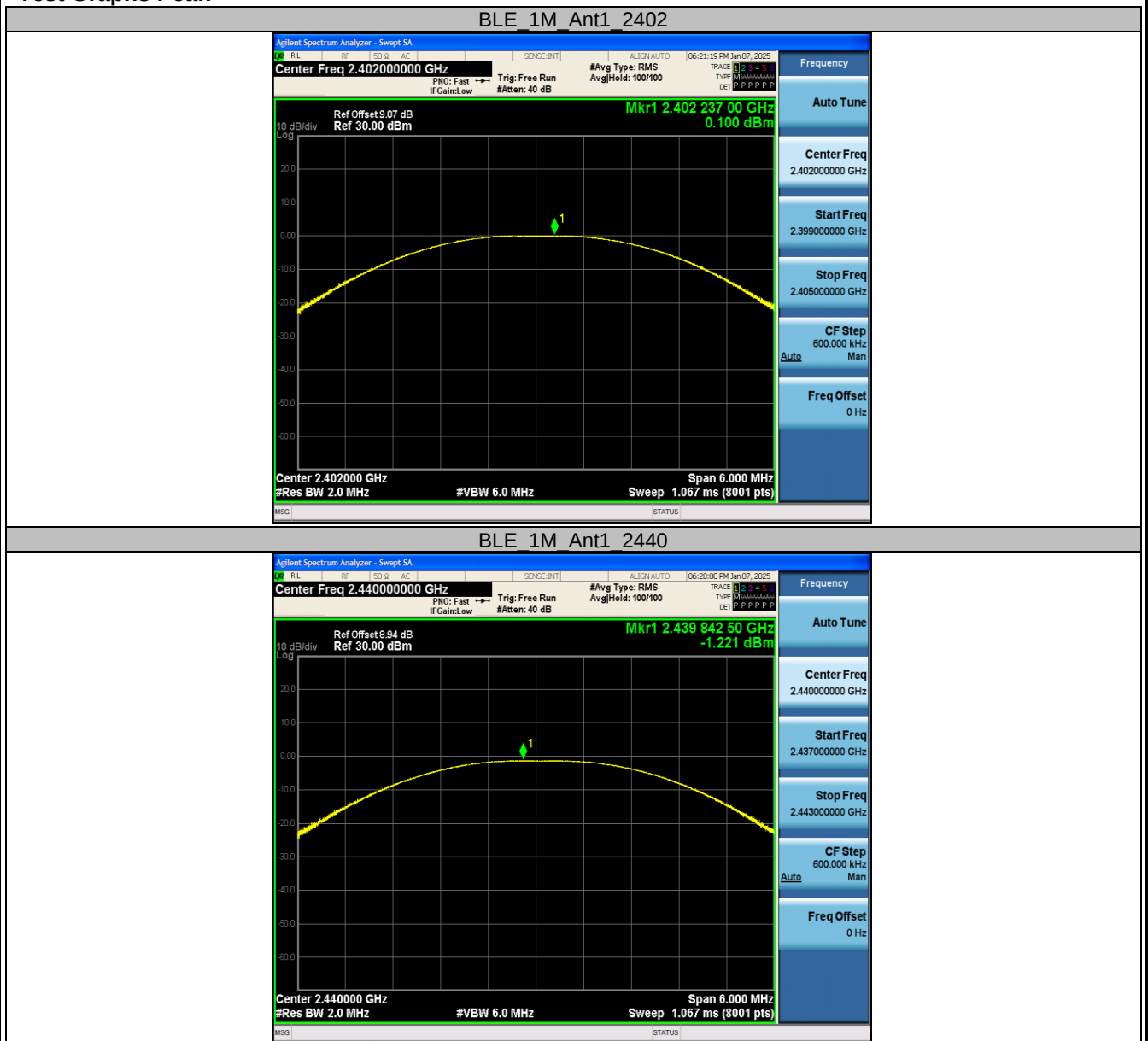
CN247FNG 001

Page 3 of 31

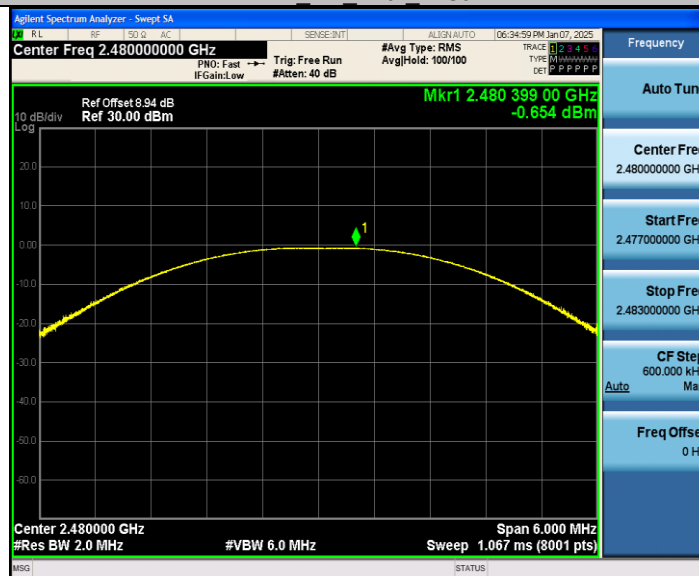


Produkte
Products

Test Graphs Peak

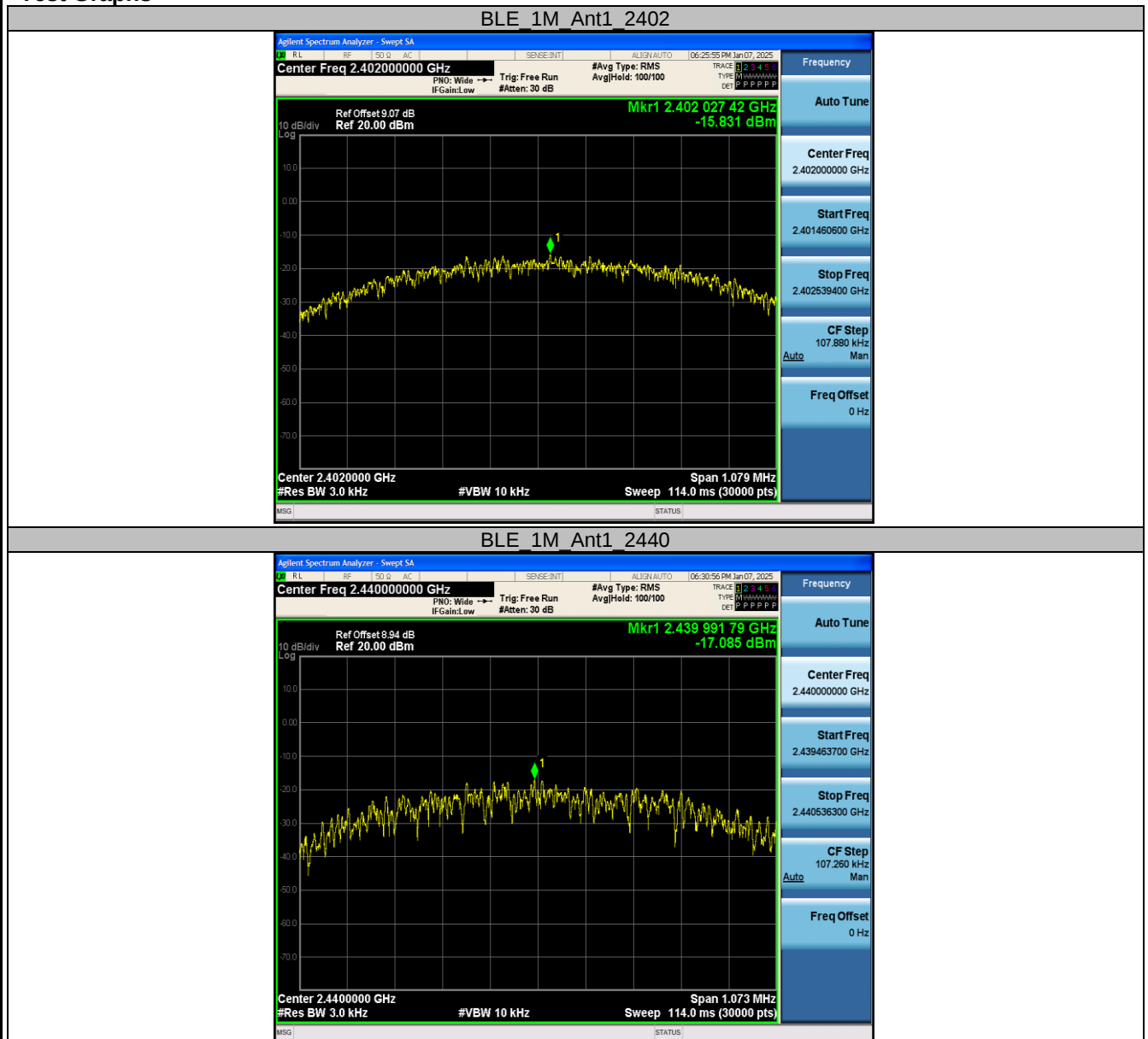


BLE 1M Ant1 2480

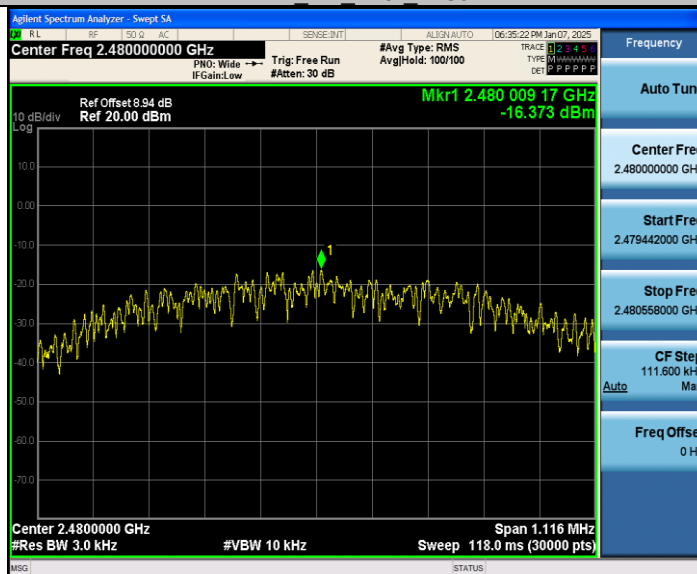


APPENDIX B.2: CONDUCTED POWER SPECTRAL DENSITY
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.83	≤8.00	PASS
		2440	-17.09	≤8.00	PASS
		2480	-16.37	≤8.00	PASS

Test Graphs

BLE 1M Ant1 2480



Appendix B

CN247FNG 001



Produkte
Products

Page 7 of 31

APPENDIX B.3: 6dB BANDWIDTH

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.680	2402.376	0.5	PASS
		2440	0.692	2439.684	2440.376	0.5	PASS
		2480	0.720	2479.656	2480.376	0.5	PASS

Test Graphs



Appendix B

CN247FNG 001

Page 9 of 31



Produkte
Products

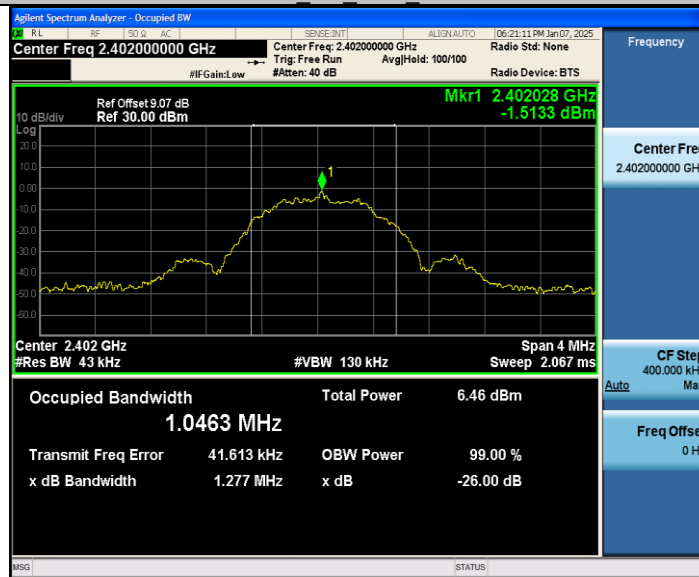
APPENDIX B.4: 99% BANDWIDTH

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0463	2401.5185	2402.5648	---	---
		2440	1.0626	2439.5023	2440.5649	---	---
		2480	1.0553	2479.5138	2480.5691	---	---

Test Graphs

BLE_1M Ant1 2402



BLE_1M Ant1 2440



BLE 1M Ant1 2480



APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH



Appendix B

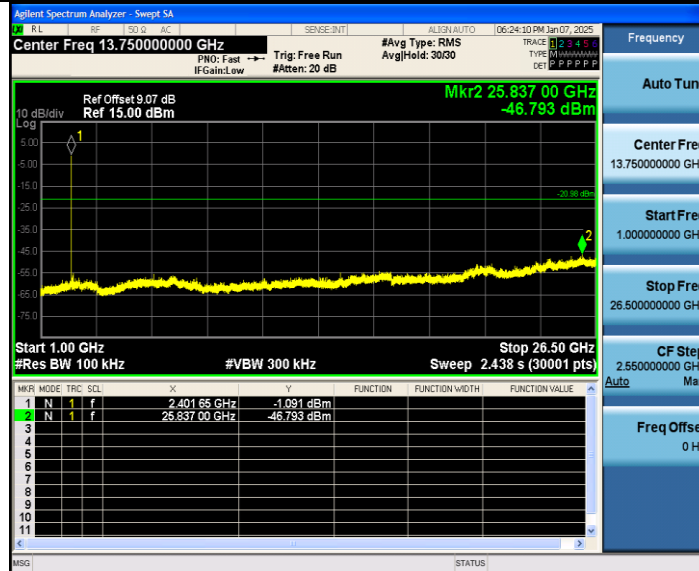
CN247FNG 001

Page 12 of 31



Produkte
Products

BLE 1M Ant1 2402 1000-26500



BLE 1M Ant1 2440 0-Reference



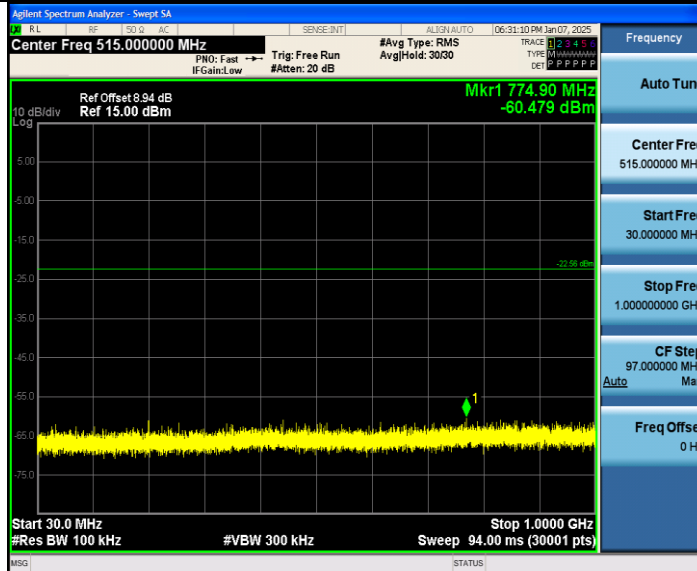
Appendix B

CN247FNG 001

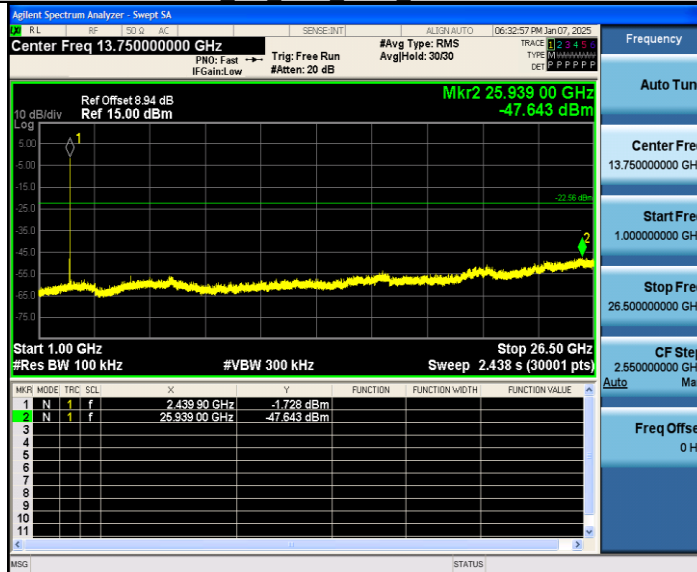
Page 13 of 31

Produkte
Products

BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



Appendix B

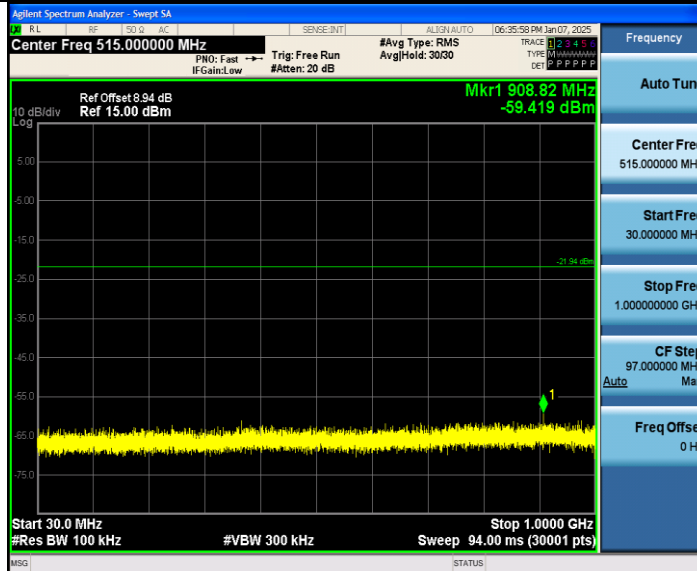
CN247FNG 001

Page 14 of 31

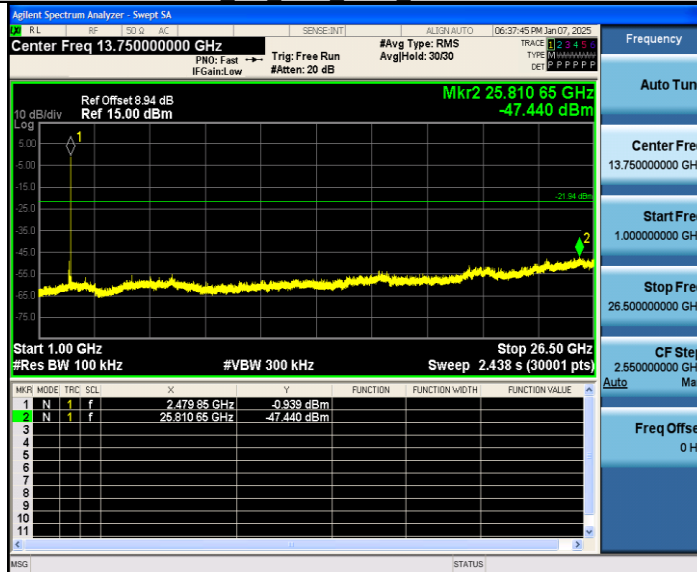


Produkte
Products

BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500



APPENDIX B.6: RADIATED SPURIOUS EMISSIONS

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.

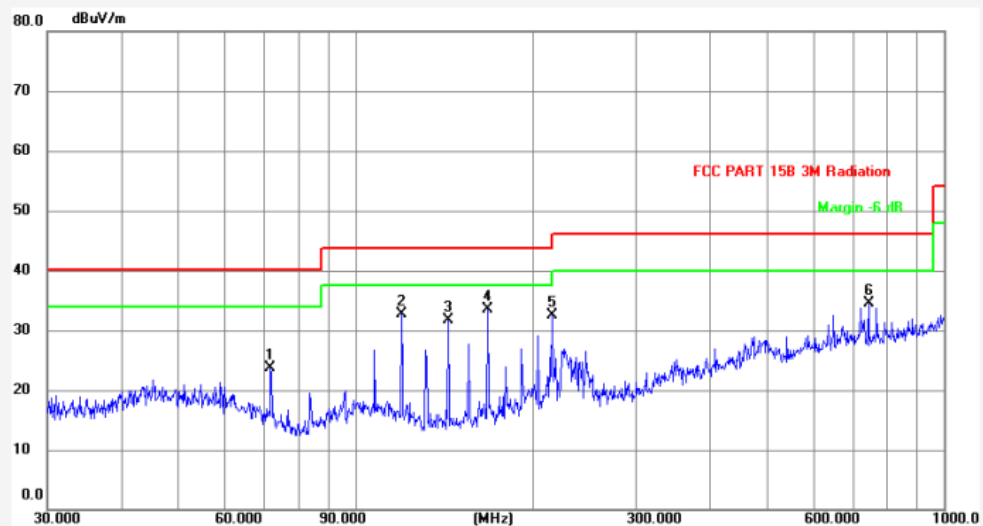
30 MHz to 1GHz

**Dongguan Lepont Testing Service Co., Ltd.**Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn**Radiation Emission**

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	71.8319	8.44	15.30	23.74	40.00	-16.26	QP		
2	119.8555	9.31	23.32	32.63	43.50	-10.87	QP		
3	143.8294	6.93	24.80	31.73	43.50	-11.77	QP		
4	167.8241	8.47	25.08	33.55	43.50	-9.95	QP	*	
5	216.0238	10.94	21.48	32.42	46.00	-13.58	QP		
6	744.8659	20.30	14.17	34.47	46.00	-11.53	QP		

Note: Level=Reading+Factor, Over=Level-Limit.

MK.: *Maximum data x: Over limit !: Over margin

File: 30-1G\Data :#1





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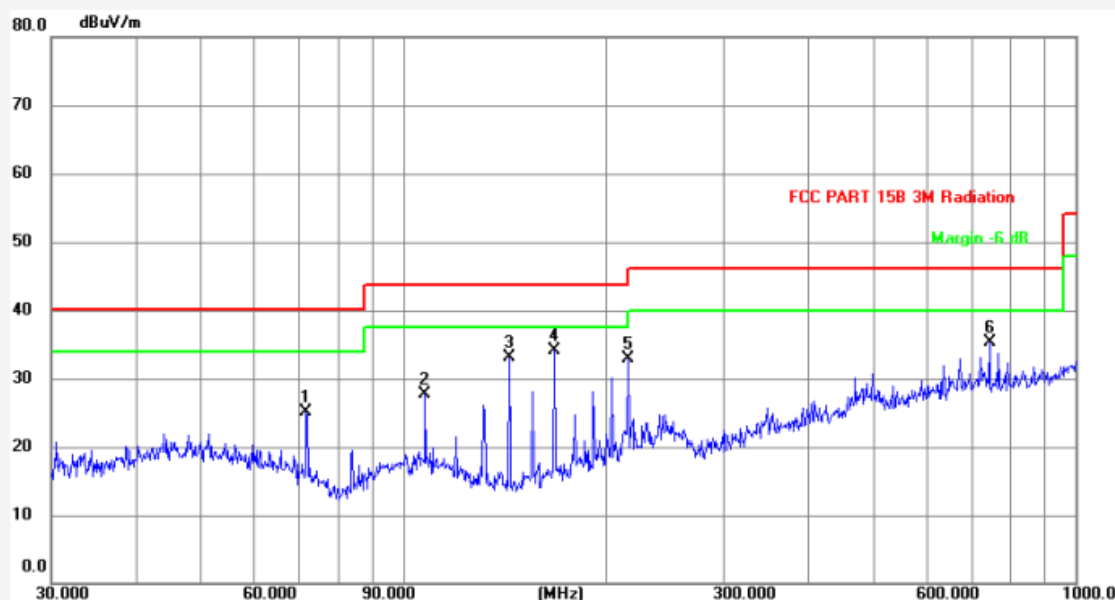
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	71.8319	8.44	16.67	25.11	40.00	-14.89	QP		
2	107.8876	10.09	17.65	27.74	43.50	-15.76	QP		
3	143.8294	6.93	26.21	33.14	43.50	-10.36	QP		
4	167.8241	8.47	25.66	34.13	43.50	-9.37	QP	*	
5	216.0238	10.94	21.93	32.87	46.00	-13.13	QP		
6	744.8659	20.30	14.97	35.27	46.00	-10.73	QP		

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:*Maximum data x:Over limit !:Over margin

File: 30-1G\data :#2





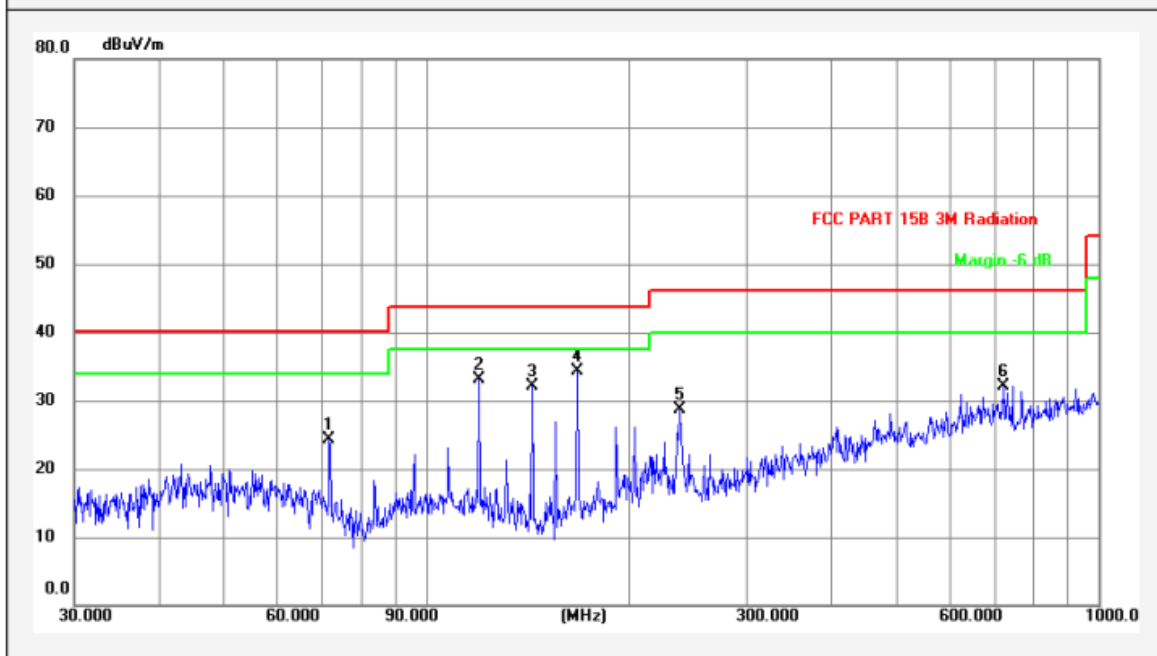
Dongguan Lepont Testing Service Co., Ltd.
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	71.8319	8.44	15.84	24.28	40.00	-15.72	QP		
2	119.8555	9.31	23.75	33.06	43.50	-10.44	QP		
3	143.8294	6.93	25.21	32.14	43.50	-11.36	QP		
4	167.8241	8.47	25.78	34.25	43.50	-9.25	QP	*	
5	238.3101	11.12	17.51	28.63	46.00	-17.37	QP		
6	721.7258	20.15	12.00	32.15	46.00	-13.85	QP		

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

File: 30-1GData :#3





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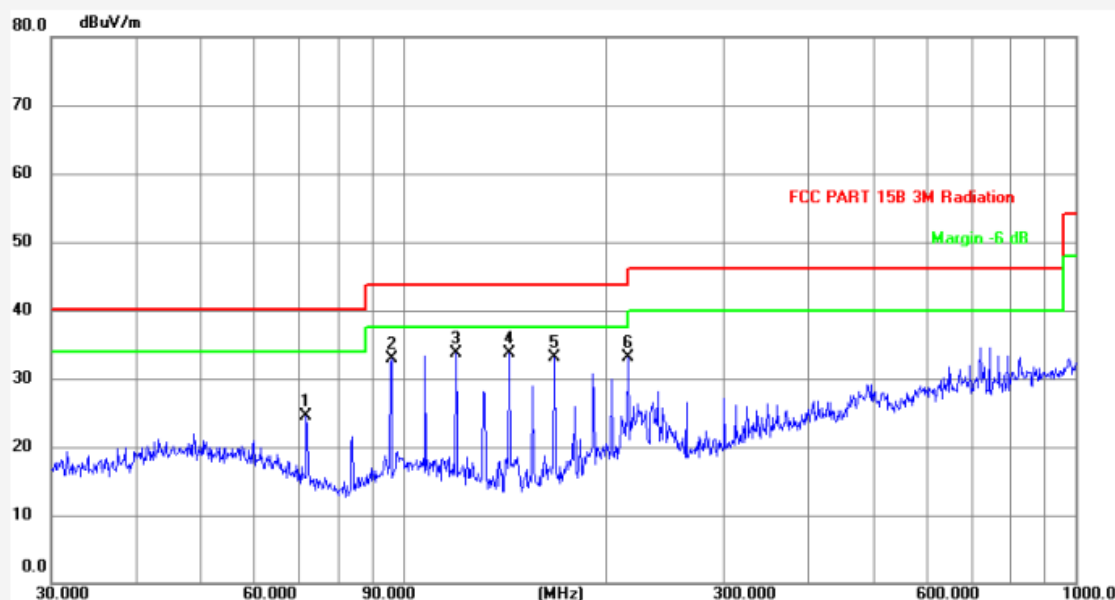
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	71.8319	8.44	16.03	24.47	40.00	-15.53	QP		
2	96.0985	9.87	23.12	32.99	43.50	-10.51	QP		
3	119.8555	9.31	24.41	33.72	43.50	-9.78	QP		
4	143.8293	6.93	26.84	33.77	43.50	-9.73	QP	*	
5	167.8240	8.47	24.67	33.14	43.50	-10.36	QP		
6	216.0237	10.94	22.14	33.08	46.00	-12.92	QP		

Note: Level=Reading+Factor, Over=Level-Limit.

MK.: *Maximum data x: Over limit !: Over margin

File: 30-1GData :#4





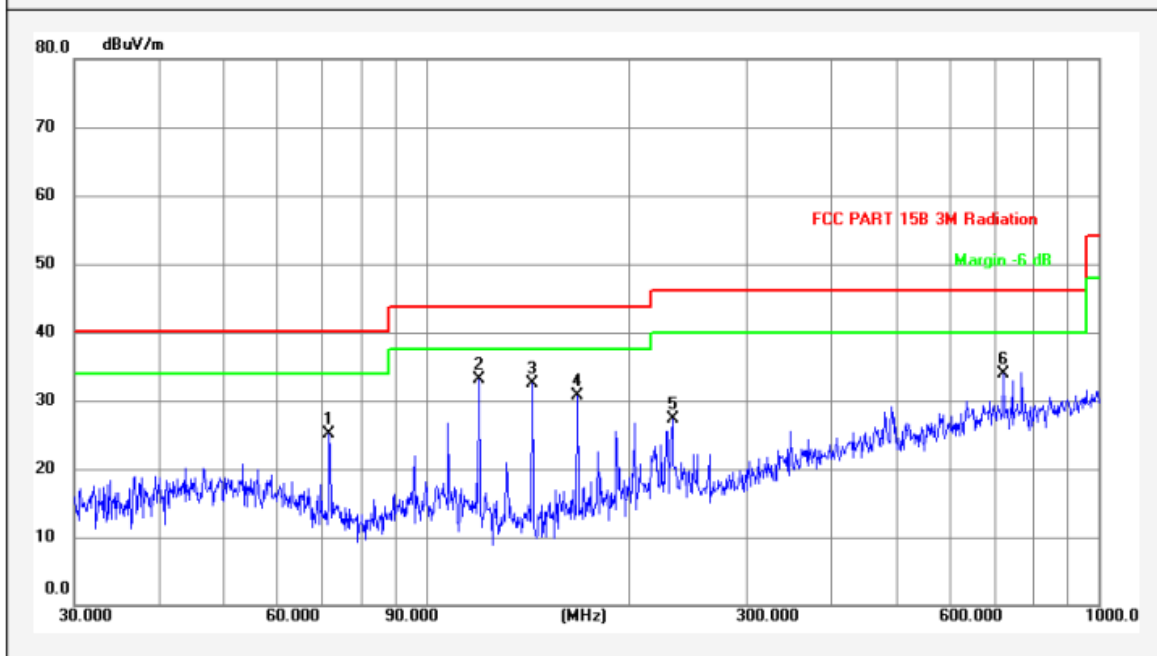
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	71.8319	8.44	16.63	25.07	40.00	-14.93	QP		
2	119.8555	9.31	23.88	33.19	43.50	-10.31	QP	*	
3	143.8294	6.93	25.48	32.41	43.50	-11.09	QP		
4	167.8241	8.47	22.19	30.66	43.50	-12.84	QP		
5	232.5318	11.07	16.31	27.38	46.00	-18.62	QP		
6	721.7258	20.15	13.73	33.88	46.00	-12.12	QP		

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

File: 30-1G\Data :#5





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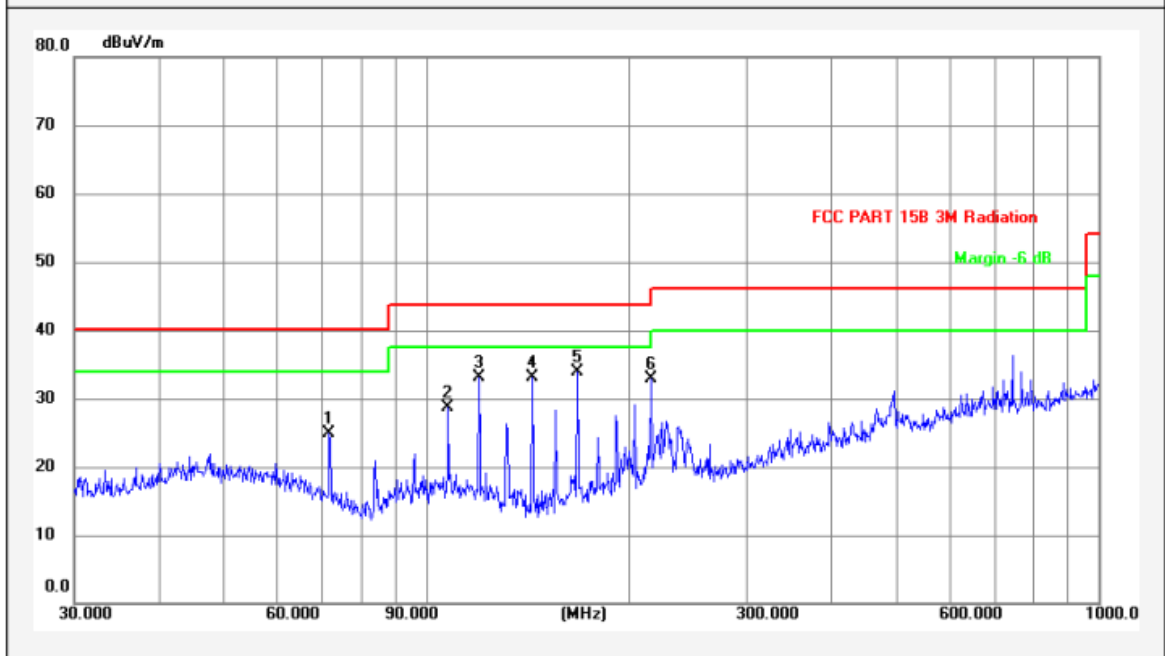
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	71.8320	8.44	16.46	24.90	40.00	-15.10	QP		
2	107.8877	10.09	18.62	28.71	43.50	-14.79	QP		
3	119.8556	9.31	23.76	33.07	43.50	-10.43	QP		
4	143.8295	6.93	26.19	33.12	43.50	-10.38	QP		
5	167.8242	8.47	25.35	33.82	43.50	-9.68	QP	*	
6	216.0239	10.94	22.01	32.95	46.00	-13.05	QP		

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:*Maximum data x:Over limit !:Over margin

File: 30-1G\data :#6



Appendix B



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Page 21 of 31

1GHz-18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.



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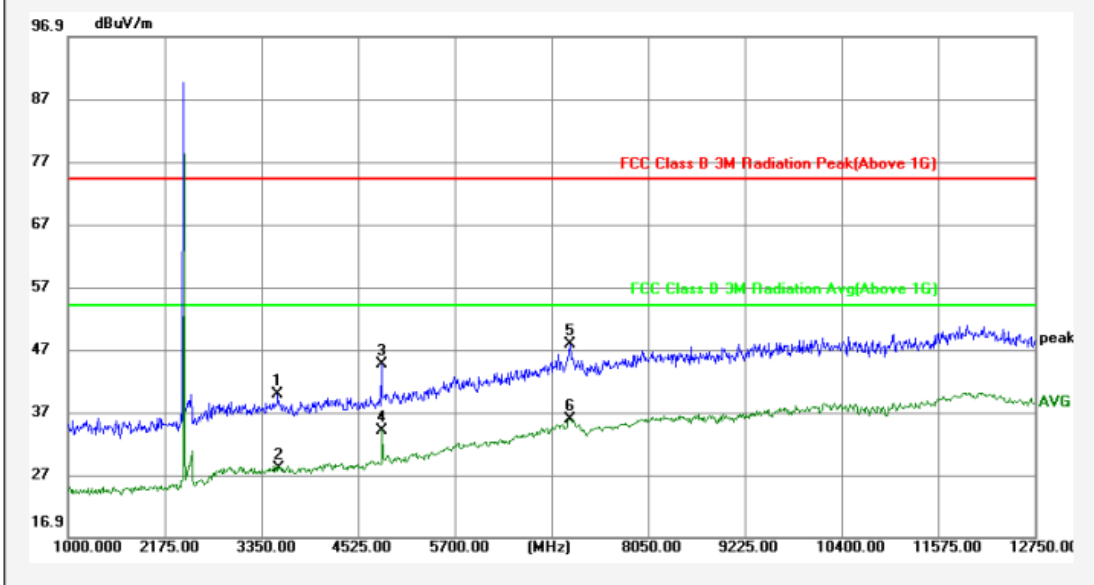
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	3549.750	-1.54	41.29	39.75	74.00	-34.25	peak		
2	3561.500	-1.53	29.59	28.06	54.00	-25.94	AVG		
3	4807.000	-1.02	45.64	44.62	74.00	-29.38	peak		
4	4818.750	-1.01	35.11	34.10	54.00	-19.90	AVG		
5	7098.250	5.73	42.11	47.84	74.00	-26.16	peak		
6	7098.250	5.73	30.16	35.89	54.00	-18.11	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-RSE\Data :#1





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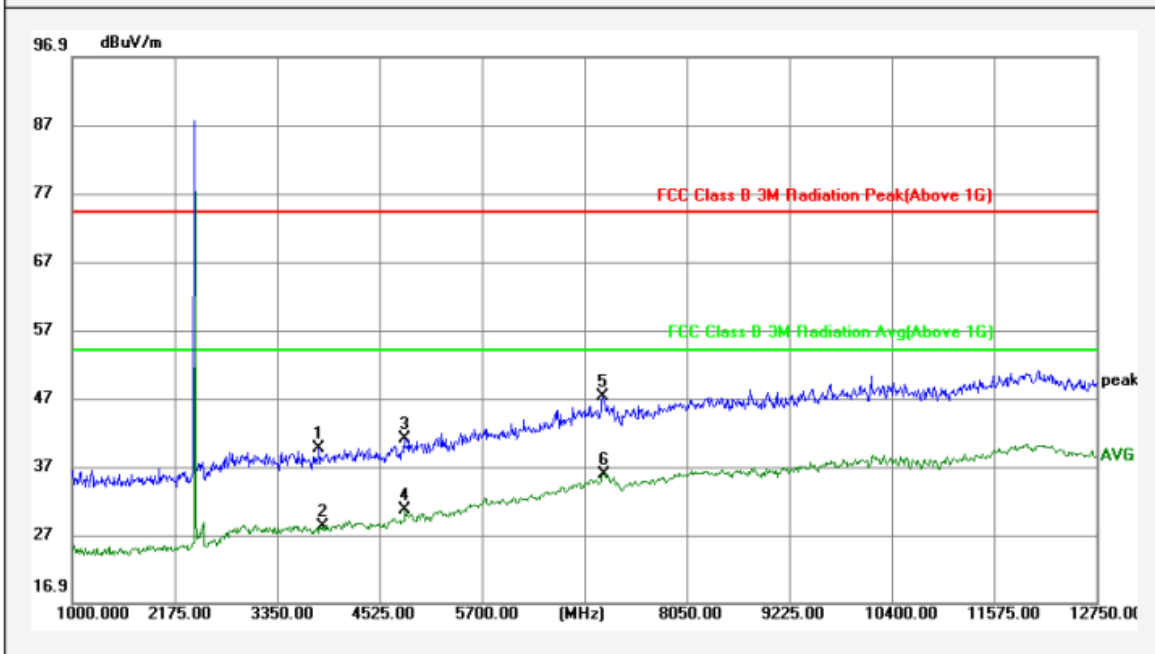
Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.: LP24070228C12-04
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Incase Compact Ergonomic Keyboard
Model No.: OB1966
Test Mode: TX
Remark 1: 2402MHz

Temp: 21.7 (C) / 47 %RH/ 1014
Test Engineer: Kervin
Power Rating: DC 3V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	3831.750	-1.10	40.62	39.52	74.00	-34.48	peak		
2	3867.000	-1.04	29.15	28.11	54.00	-25.89	AVG		
3	4807.000	-1.02	42.12	41.10	74.00	-32.90	peak		
4	4818.750	-1.01	31.65	30.64	54.00	-23.36	AVG		
5	7086.500	5.73	41.54	47.27	74.00	-26.73	peak		
6	7098.250	5.73	30.12	35.85	54.00	-18.15	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-RSE\Data :#2





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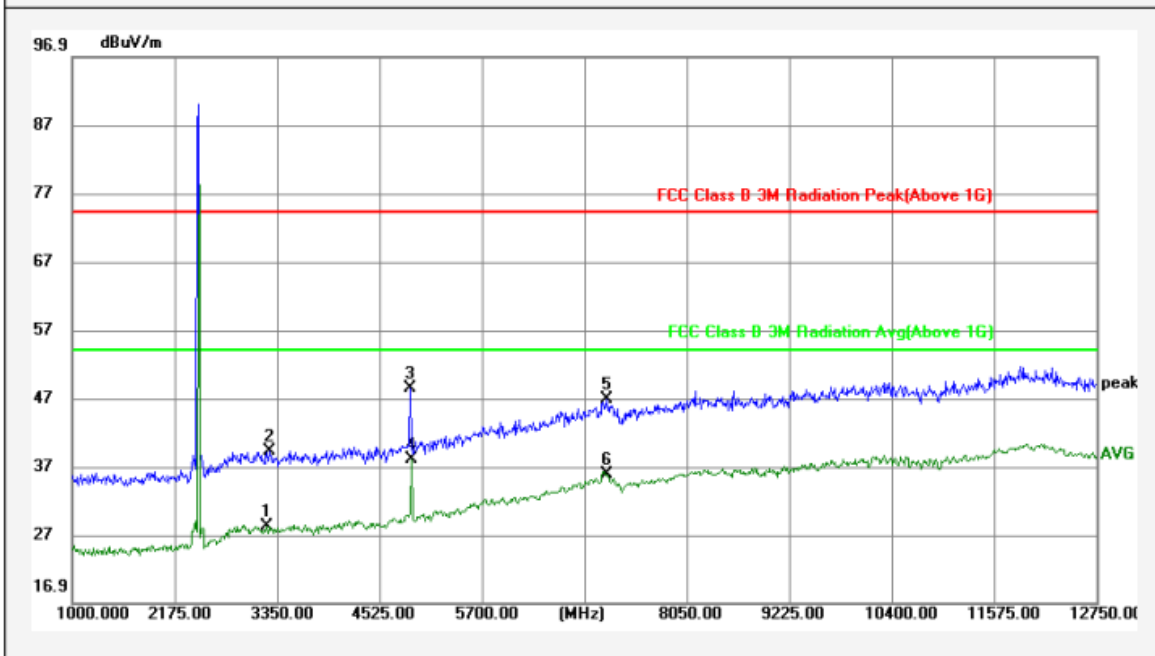
Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.: LP24070228C12-04
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Incase Compact Ergonomic Keyboard
Model No.: OB1966
Test Mode: TX
Remark 1: 2440MHz

Temp: 21.7 (C) / 47 %RH/ 1014
Test Engineer: Kervin
Power Rating: DC 3V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	3232.500	-2.10	30.24	28.14	54.00	-25.86	AVG		
2	3267.750	-2.04	41.21	39.17	74.00	-34.83	peak		
3	4877.500	-1.01	49.50	48.49	74.00	-25.51	peak		
4	4889.250	-1.01	38.97	37.96	54.00	-16.04	AVG	*	
5	7133.500	5.71	41.01	46.72	74.00	-27.28	peak		
6	7133.500	5.71	30.00	35.71	54.00	-18.29	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-RSE\Data :#3





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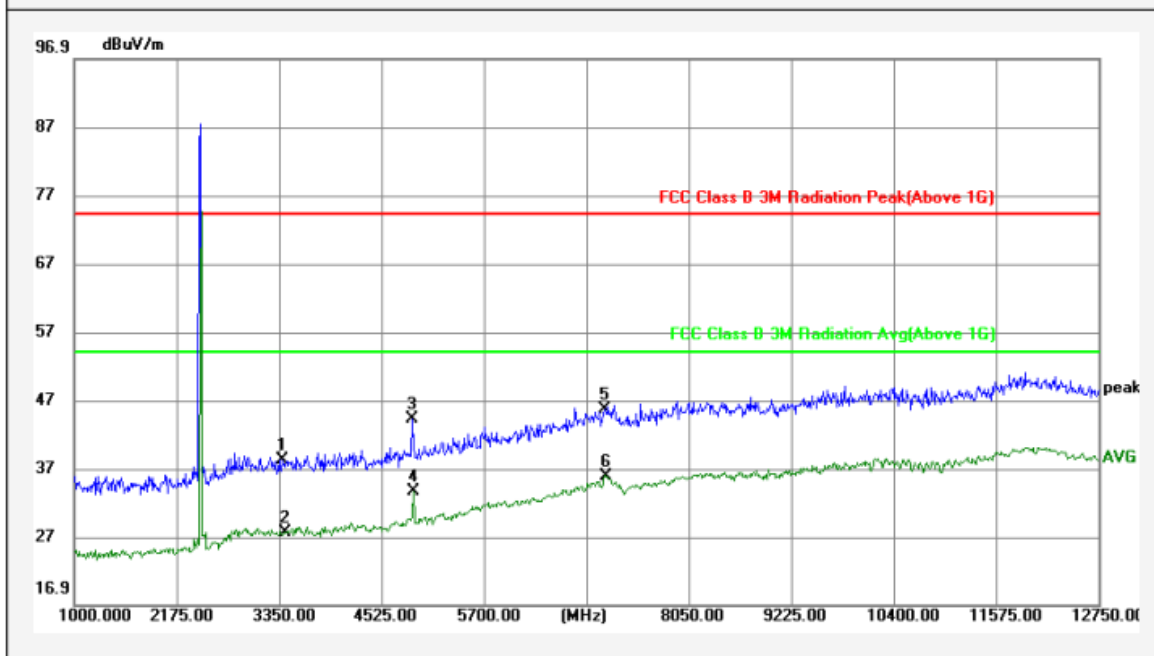
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	3385.250	-1.84	40.08	38.24	74.00	-35.76	peak		
2	3420.500	-1.77	29.44	27.67	54.00	-26.33	AVG		
3	4877.500	-1.01	45.24	44.23	74.00	-29.77	peak		
4	4889.250	-1.01	34.61	33.60	54.00	-20.40	AVG		
5	7086.500	5.73	39.81	45.54	74.00	-28.46	peak		
6	7098.250	5.73	30.06	35.79	54.00	-18.21	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-RSE\Data :#4





Dongguan Lepont Testing Service Co., Ltd.

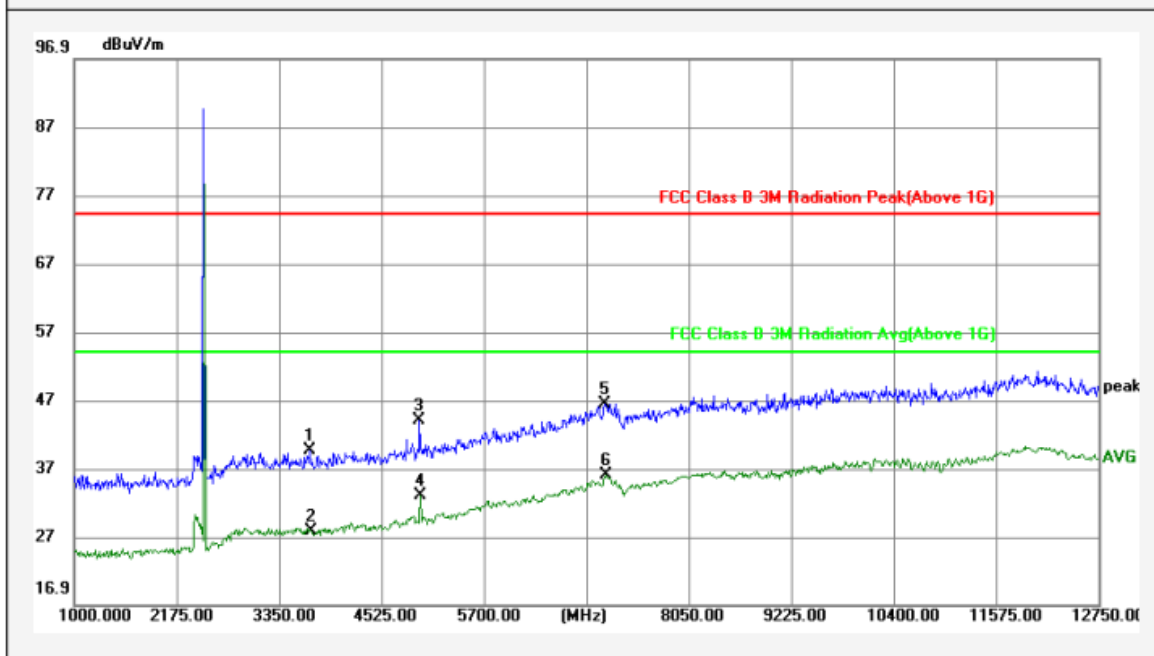
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	3702.500	-1.31	41.01	39.70	74.00	-34.30	peak		
2	3714.250	-1.28	29.13	27.85	54.00	-26.15	AVG		
3	4959.750	-1.00	44.96	43.96	74.00	-30.04	peak		
4	4971.500	-1.00	34.10	33.10	54.00	-20.90	AVG		
5	7086.500	5.73	40.68	46.41	74.00	-27.59	peak		
6	7098.250	5.73	30.22	35.95	54.00	-18.05	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-RSE\Data :#5





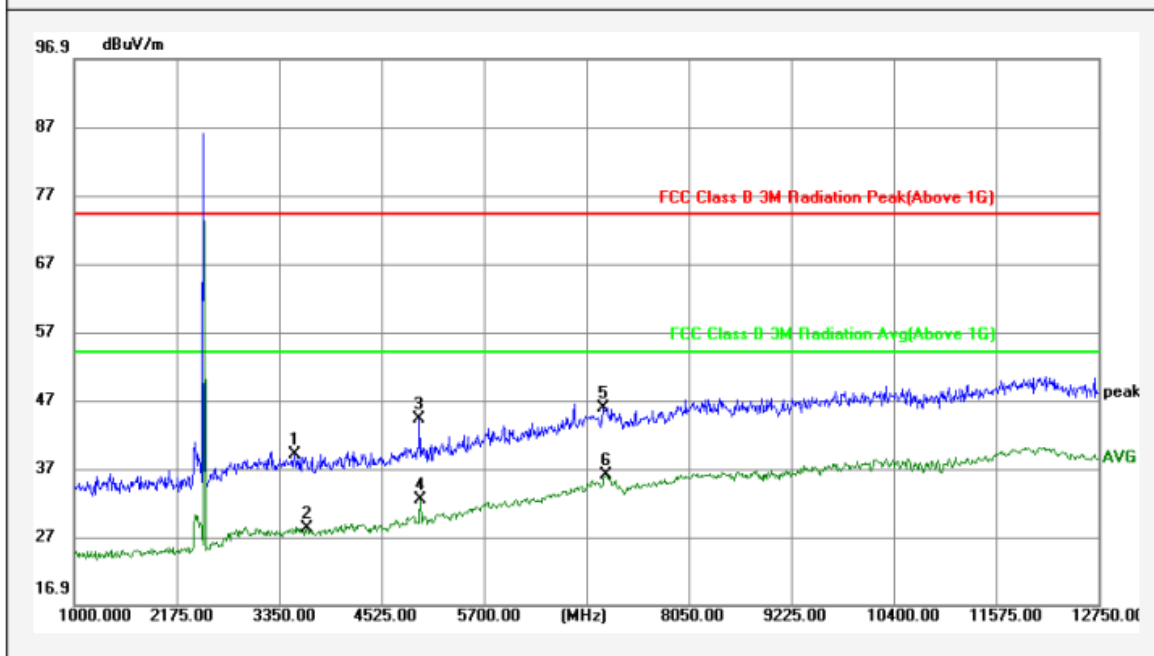
Dongguan Lepont Testing Service Co., Ltd.
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	3526.250	-1.59	40.65	39.06	74.00	-34.94	peak		
2	3667.250	-1.36	29.61	28.25	54.00	-25.75	AVG		
3	4959.750	-1.00	45.11	44.11	74.00	-29.89	peak		
4	4971.500	-1.00	33.44	32.44	54.00	-21.56	AVG		
5	7074.750	5.73	40.04	45.77	74.00	-28.23	peak		
6	7098.250	5.73	30.25	35.98	54.00	-18.02	AVG	*	

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

File: OB1966-RSE\Data :#6



Appendix B

CN247FNG 001

Page 27 of 31

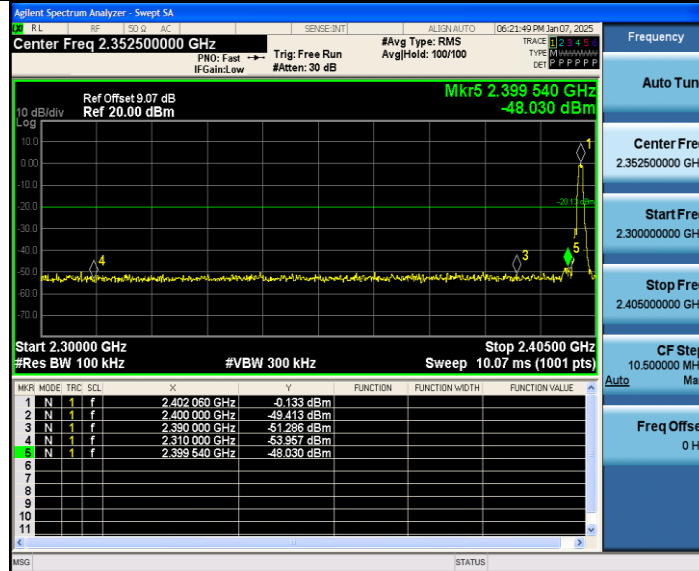


Produkte
Products

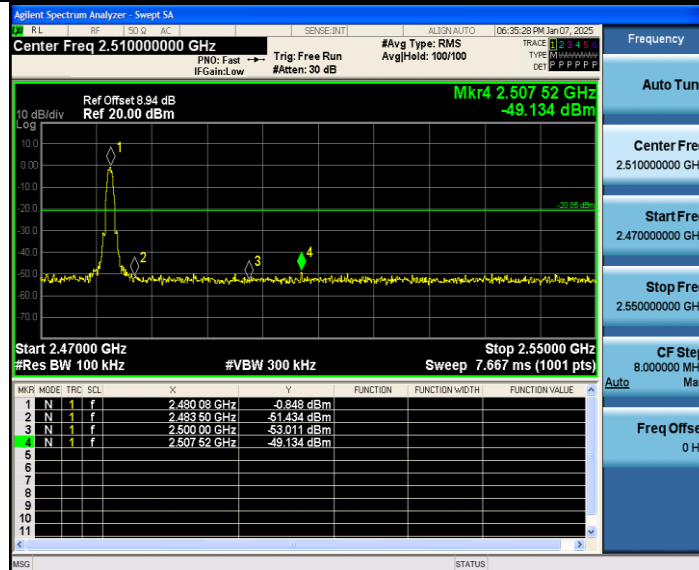
APPENDIX B.7: RADIATED EMISSIONS IN RESTRICTED BANDS

Conduction

BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480



Radiation



Dongguan Lepont Testing Service Co., Ltd.

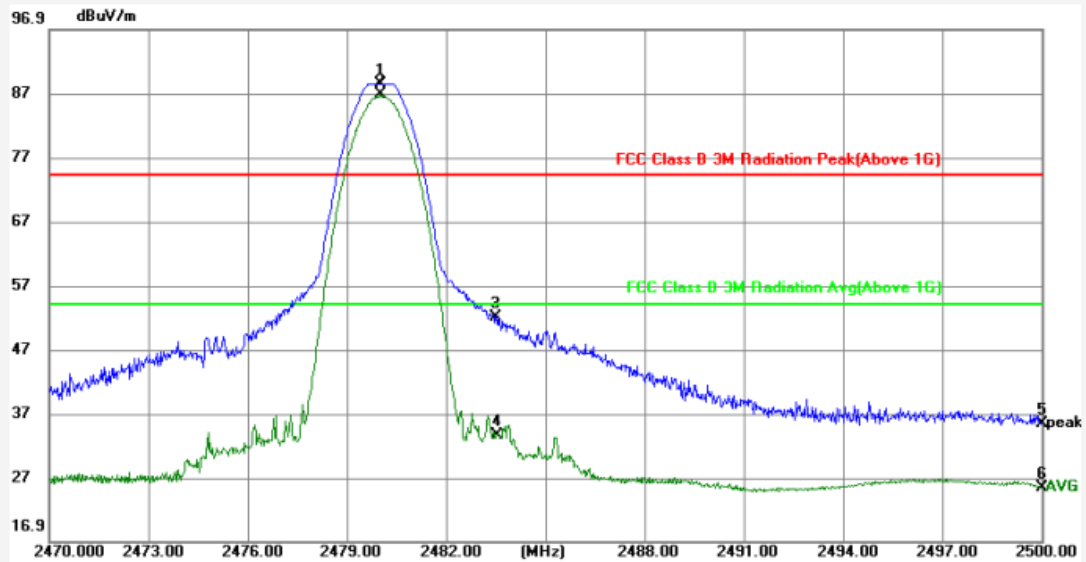
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	92.86	88.38	74.00	14.38	peak	X	
2	2480.020	-4.48	91.22	86.74	54.00	32.74	AVG	*	
3	2483.500	-4.46	56.56	52.10	74.00	-21.90	peak		
4	2483.530	-4.46	38.14	33.68	54.00	-20.32	AVG		
5	2500.000	-4.41	39.78	35.37	74.00	-38.63	peak		
6	2500.000	-4.41	29.80	25.39	54.00	-28.61	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:*:Maximum data x:Over limit !:Over margin

File: OB1966-BAND1Data :#1





Dongguan Lepont Testing Service Co., Ltd.

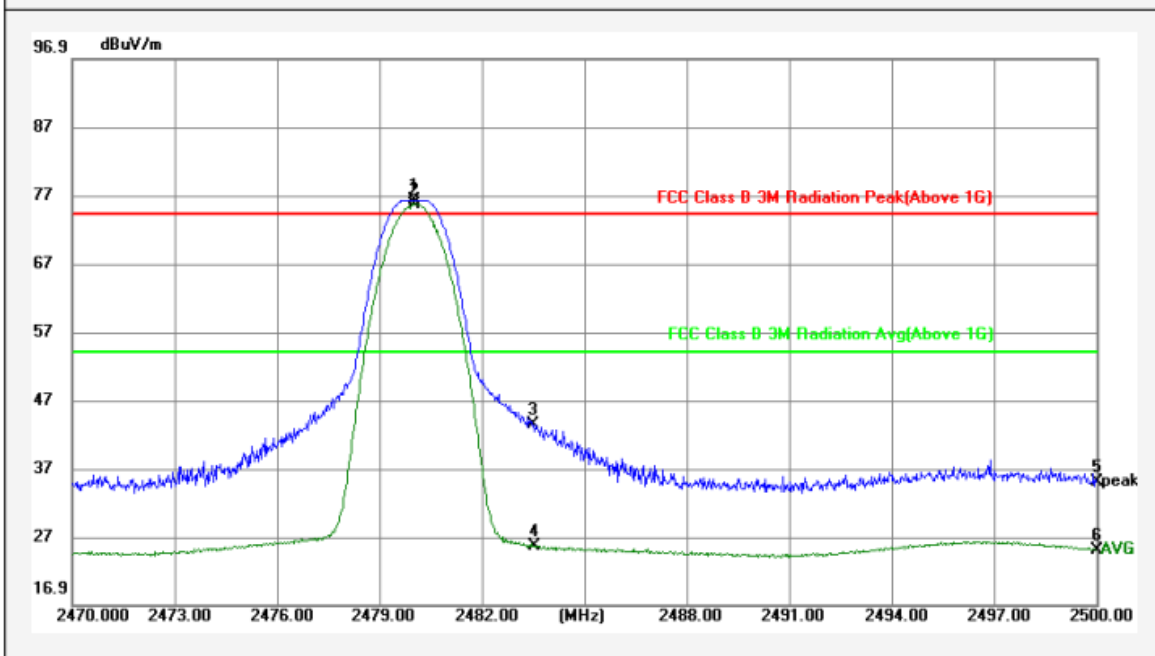
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	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	80.76	76.28	74.00	2.28	peak	X	
2	2480.020	-4.48	80.16	75.68	54.00	21.68	AVG	*	
3	2483.500	-4.46	47.95	43.49	74.00	-30.51	peak		
4	2483.530	-4.46	30.01	25.55	54.00	-28.45	AVG		
5	2500.000	-4.41	39.37	34.96	74.00	-39.04	peak		
6	2500.000	-4.41	29.45	25.04	54.00	-28.96	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:*:Maximum data x:Over limit !:Over margin

File: OB1966-BAND\Data :#2





Dongguan Lepont Testing Service Co., Ltd.

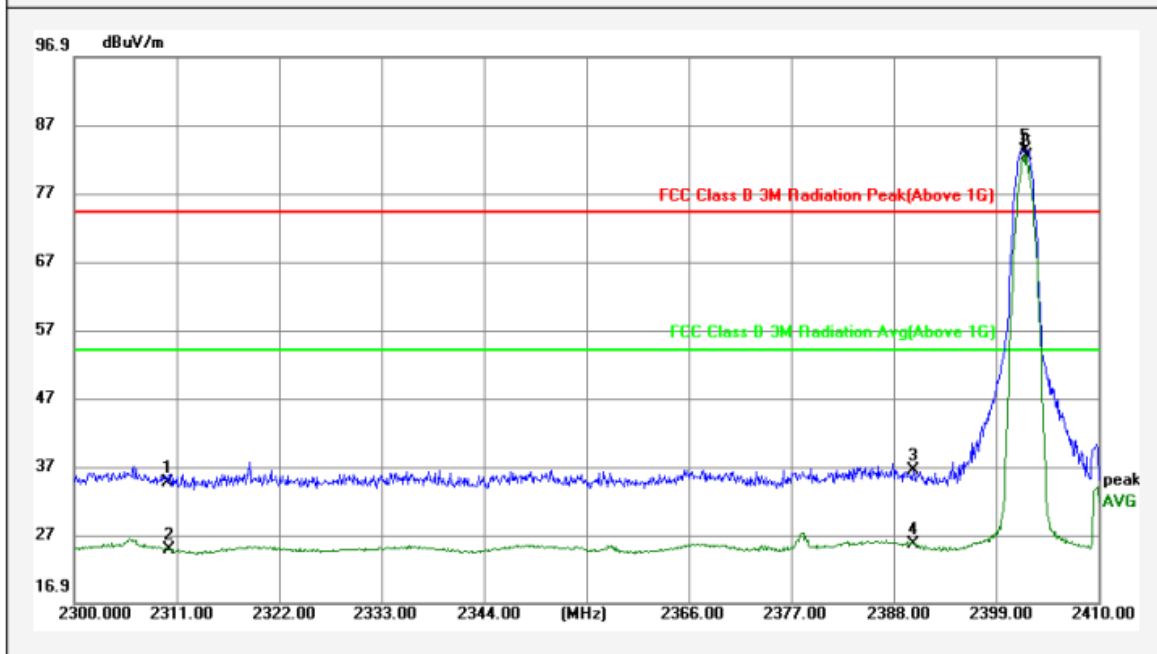
 Room 102, Building 11, No.7 Houjie Science And Technology
 Avenue, Houjie, Dongguan, Guangdong, China
 Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2310.000	-5.12	39.76	34.64	74.00	-39.36	peak		
2	2310.230	-5.12	29.98	24.86	54.00	-29.14	AVG		
3	2390.000	-4.83	41.15	36.32	74.00	-37.68	peak		
4	2390.090	-4.83	30.47	25.64	54.00	-28.36	AVG		
5	2402.000	-4.78	87.98	83.20	74.00	9.20	peak	X	
6	2402.300	-4.78	87.10	82.32	54.00	28.32	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1966-BAND\Data :#3



Appendix B

CN247FNG 001

Page 31 of 31



Produkte
Products



Dongguan Lepont Testing Service Co., Ltd.

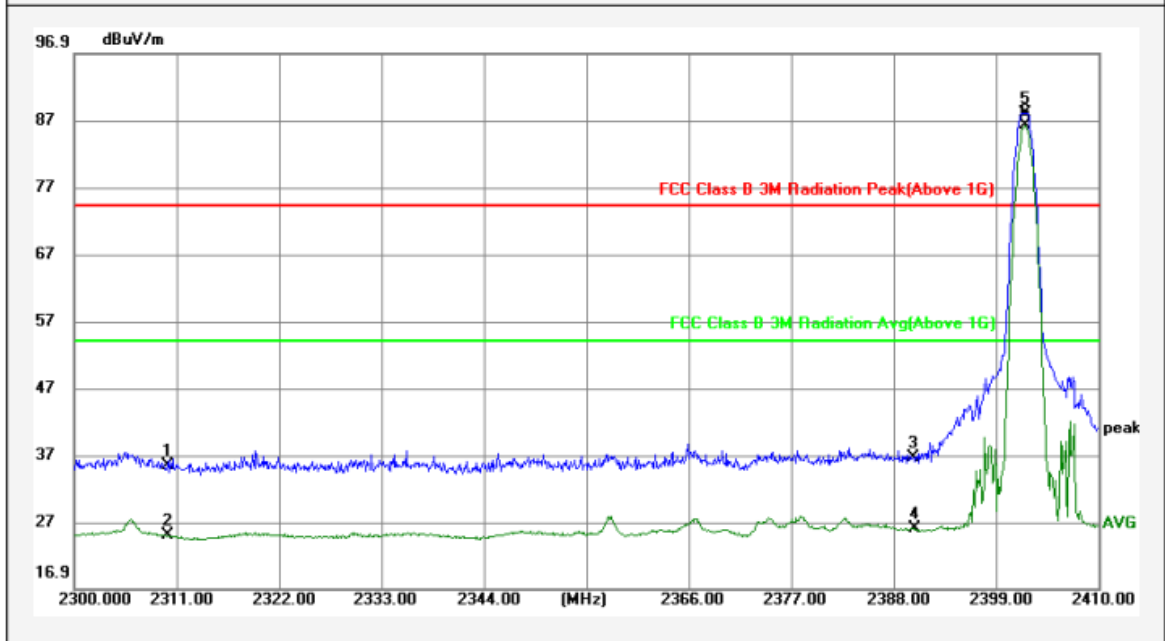
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2025/1/9

Job No.:	LP24070228C12-04	Temp:	21.7 (C) / 47 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Kervin
EUT:	Incase Compact Ergonomic Keyboard	Power Rating:	DC 3V
Model No.:	OB1966	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2310.000	-5.12	40.44	35.32	74.00	-38.68	peak		
2	2310.010	-5.12	30.10	24.98	54.00	-29.02	AVG		
3	2390.000	-4.83	41.43	36.60	74.00	-37.40	peak		
4	2390.200	-4.83	30.80	25.97	54.00	-28.03	AVG		
5	2402.000	-4.78	92.77	87.99	74.00	13.99	peak	X	
6	2402.190	-4.78	90.94	86.16	54.00	32.16	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:*Maximum data x:Over limit !:Over margin

File: OB1966-BAND\Data :#4

