
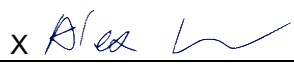


<b>Prüfbericht-Nr.:</b> Test report no.:	<b>CN25UWVP 002</b>	<b>Auftrags-Nr.:</b> Order no.:	168575688	<b>Page 1 of 22</b> Seite 1 von 22
<b>Kunden-Referenz-Nr.:</b> Client reference no.:	N/A	<b>Auftragsdatum:</b> Order date:	2025-09-30	
<b>Auftraggeber:</b> Client:	<b>Harman International Industries, Inc</b> 8500 Balboa Blvd, Northridge, California, 91329, United States			
<b>Prüfgegenstand:</b> Test item:	BLUETOOTH HEADSET			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type no.:	LIVE 680NC (Trademark: JBL)			
<b>Auftrags-Inhalt:</b> Order content:	Type test			
<b>Prüfgrundlage:</b> Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021	
<b>Wareneingangsdatum:</b> Date of sample receipt:	2025-09-30	Refer to photos document		
<b>Prüfmuster-Nr.:</b> Test sample no.:	A004105303			
<b>Prüfzeitraum:</b> Testing period:	2025-10-09 – 2025-10-24			
<b>Ort der Prüfung:</b> Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von:</b> tested by:	 Signed by: Harry W. C. Wu		<b>genehmigt von:</b> authorized by:	 Signed by: Alex Lan
<b>Datum:</b> Date:	2025-11-17		<b>Ausstellungsdatum:</b> Issue date:	2025-11-17
<b>Stellung / Position:</b>	Project Manager		<b>Stellung / Position:</b>	Authorizer
<b>Sonstiges /</b> <b>Other:</b>	FCC ID: APILIVE680NC IC: 6132A-LIVE680NC      HVIN: LIVE 680NC			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> 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
<b>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.</b> <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>				
TÜV Rheinland (Shenzhen) Co., Ltd., 1601-1604, 1801-1804, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P. R. China Mail: service-gc@tuv.com · Web: www.tuv.com				

Prüfbericht-Nr.: CN25UWVP 002  
Test report no.:

Page 2 of 22  
Seite 2 von 22

**Remarks**  
*Anmerkungen*

1	<p>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.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><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></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p>
2	<p>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.</p> <p><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></p>
3	<p>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.</p> <p><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></p>
4	<p>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.</p> <p><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></p>

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 3 von 22  
Page 3 of 22

## ***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 99%dB BANDWIDTH**

*RESULT: Pass*

**5.1.5 6dB BANDWIDTH**

*RESULT: Pass*

**5.1.6 FREQUENCY STABILITY**

*RESULT: Pass*

**5.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH**

*RESULT: Pass*

**5.1.8 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 4 von 22  
Page 4 of 22

## **Contents**

<b>1</b>	<b>GENERAL REMARKS .....</b>	<b>5</b>
<b>1.1</b>	<b>COMPLEMENTARY MATERIALS .....</b>	<b>5</b>
<b>2</b>	<b>TEST SITES .....</b>	<b>5</b>
<b>2.1</b>	<b>TEST FACILITIES .....</b>	<b>5</b>
<b>2.2</b>	<b>LIST OF TEST AND MEASUREMENT INSTRUMENTS.....</b>	<b>6</b>
<b>2.3</b>	<b>TRACEABILITY .....</b>	<b>7</b>
<b>2.4</b>	<b>CALIBRATION .....</b>	<b>7</b>
<b>2.5</b>	<b>MEASUREMENT UNCERTAINTY.....</b>	<b>7</b>
<b>2.6</b>	<b>LOCATION OF ORIGINAL DATA.....</b>	<b>7</b>
<b>2.7</b>	<b>STATUS OF FACILITY USED FOR TESTING.....</b>	<b>7</b>
<b>3</b>	<b>GENERAL PRODUCT INFORMATION .....</b>	<b>8</b>
<b>3.1</b>	<b>PRODUCT FUNCTION AND INTENDED USE.....</b>	<b>8</b>
<b>3.2</b>	<b>RATINGS AND SYSTEM DETAILS .....</b>	<b>8</b>
<b>3.3</b>	<b>INDEPENDENT OPERATION MODES .....</b>	<b>10</b>
<b>3.4</b>	<b>NOISE GENERATING AND NOISE SUPPRESSING PARTS.....</b>	<b>10</b>
<b>3.5</b>	<b>SUBMITTED DOCUMENTS.....</b>	<b>10</b>
<b>4</b>	<b>TEST SET-UP AND OPERATION MODES .....</b>	<b>11</b>
<b>4.1</b>	<b>PRINCIPLE OF CONFIGURATION SELECTION .....</b>	<b>11</b>
<b>4.2</b>	<b>TEST OPERATION AND TEST SOFTWARE.....</b>	<b>11</b>
<b>4.3</b>	<b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT .....</b>	<b>11</b>
<b>4.4</b>	<b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE .....</b>	<b>11</b>
<b>4.5</b>	<b>TEST SETUP DIAGRAM .....</b>	<b>12</b>
<b>5</b>	<b>TEST RESULTS .....</b>	<b>14</b>
<b>5.1</b>	<b>TRANSMITTER REQUIREMENT &amp; TEST SUITES .....</b>	<b>14</b>
<b>5.1.1</b>	<i>Antenna Requirement .....</i>	<i>14</i>
<b>5.1.2</b>	<i>Maximum Peak Conducted Output Power.....</i>	<i>15</i>
<b>5.1.3</b>	<i>Conducted Power Spectral Density .....</i>	<i>16</i>
<b>5.1.4</b>	<i>99%dB Bandwidth .....</i>	<i>17</i>
<b>5.1.5</b>	<i>6dB Bandwidth .....</i>	<i>18</i>
<b>5.1.6</b>	<i>Frequency stability .....</i>	<i>19</i>
<b>5.1.7</b>	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth .....</i>	<i>20</i>
<b>5.1.8</b>	<i>Radiated Spurious Emission .....</i>	<i>21</i>
<b>6</b>	<b>PHOTOGRAPHS OF THE TEST SET-UP .....</b>	<b>22</b>
<b>7</b>	<b>LIST OF TABLES.....</b>	<b>22</b>

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*Seite 5 von 22  
Page 5 of 22

# 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

**TÜV Rheinland (Shenzhen) Co., Ltd.**

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

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 6 von 22  
Page 6 of 22

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	22.09.2026
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	22.09.2026
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	22.09.2026
DC Power Supply	Keysight	E3642A	MY61276100	22.09.2026
Wireless Connectivity Tester	R&S	CMW270	102505	22.09.2026
Power Control Unit	Tonscend	JS0806-4ADC	N/A	22.09.2026
Automation Control Unit	Tonscend	JS0806-2	21C8060396	22.09.2026
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	24.02.2026
<b>Unwanted Emission Testing</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
EMI Test Receiver	R&S	ESR 7	102021	21.09.2026
Signal Analyzer	R&S	FSV 40	101439	21.09.2026
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.09.2026
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	21.09.2026
Amplifier	R&S	SCU-18F	180070	21.09.2026
Amplifier	R&S	SCU40A	100475	21.09.2026
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

## 2.3 Traceability

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

## 2.4 Calibration

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

## 2.5 Measurement Uncertainty

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

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 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 (Shenzhen) 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, People's Republic of 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 headset, and it supports Bluetooth dual mode technology, this headset has different color of enclosure.

The Classical Bluetooth and Bluetooth low energy can't transmit at the same time.

For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	BLUETOOTH HEADSET
Type Designation	LIVE 680NC
Trademark	JBL
FCC ID	APILIVE680NC
IC	6132A-LIVE680NC
HVIN	LIVE 680NC
Extreme Temperature Range	0°C to +45°C
Operating Voltage	DC 5V, 1A via Type C interface or DC 3.7V, 870mAh via built-in Li-ion battery
<b>Technical Specification of Classical Bluetooth</b>	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	FPC antenna
Antenna Gain	2.55 dBi (Provided by the Client)
<b>Technical Specification of Bluetooth Low Energy</b>	
Operating Frequency band	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	FPC antenna
Antenna Gain	2.55 dBi (Provided by the Client)



**Table 3: RF Channel and Frequency of Classic Bluetooth**

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	<b>78</b>	<b>2480.00</b>
19	2421.00	<b>39</b>	<b>2441.00</b>	59	2461.00	--	--

**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	<b>19</b>	<b>2440.00</b>	29	2460.00	<b>39</b>	<b>2480.00</b>

### 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, Bluetooth connecting mode
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

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

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

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

### 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 30MHz)

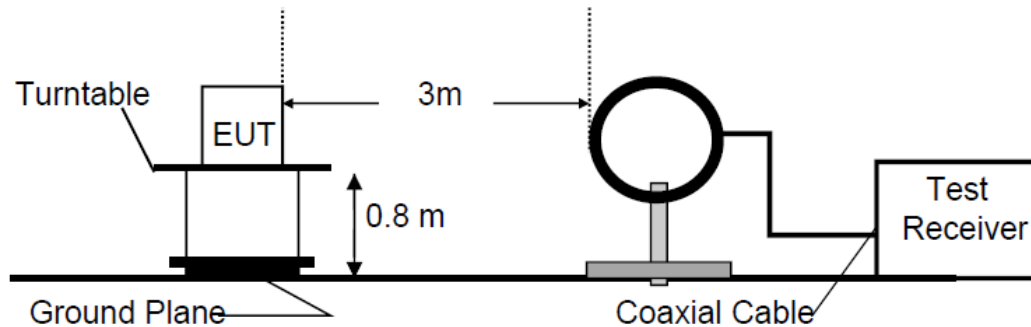


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

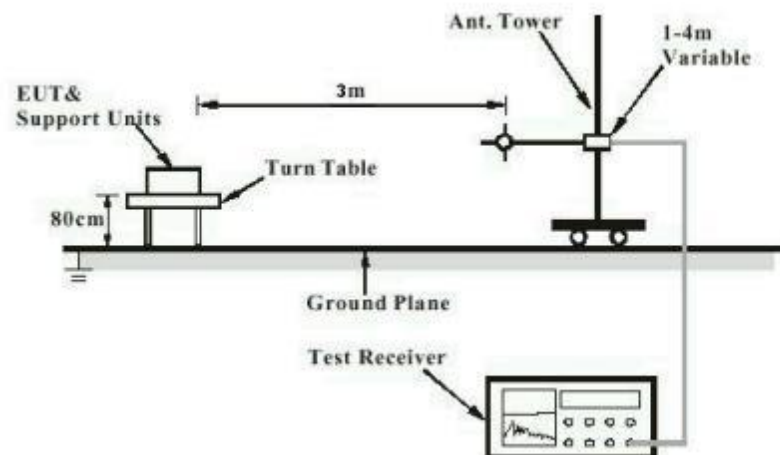
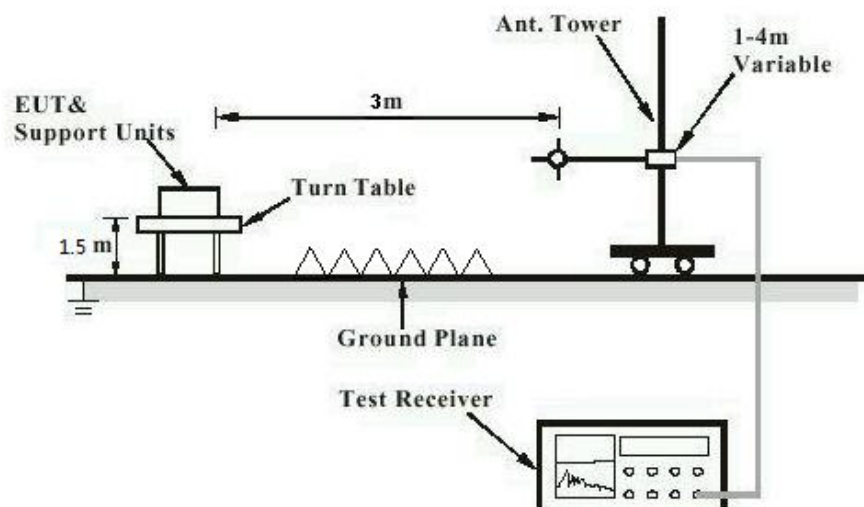
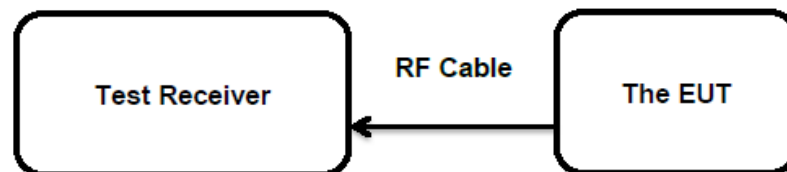


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



**Diagram of Measurement Configuration for Conducted Transmitter Measurement**



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

**Pass**

**Test Specification**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one FPC antenna, the directional gain of antennas is 2.55 dBi, and the antenna connector is designed with 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.: CN25UWVP 002**  
*Test report no.:*

Seite 15 von 22  
Page 15 of 22

## 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 C63.10-2020, ANSI C63.10-2020+Cor. 1-  
2023+C63.10a-2024  
Limits : < 1 Watt (Maximum Conducted Peak Power)  
e.i.r.p. <4W  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2025-10-09 to 2025-10-24  
Input voltage : DC 3.7V  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 24.8 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 6: Test Result of Maximum Peak Conducted Output Power**

Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
1 Mbps	2402	6.26	0.00423	< 1.0
	2440	6.35	0.00432	
	2480	6.11	0.00408	
2 Mbps	2402	6.23	0.00420	
	2440	6.33	0.00430	
	2480	6.11	0.00408	
Maximum Measured Value		6.35	0.00432	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 8.90dBm less than 4W (36 dBm).

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 16 von 22  
Page 16 of 22

### 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 C63.10-2020, ANSI C63.10-2020+Cor. 1-  
: 2023+C63.10a-2024  
Limits : 8 dBm / 3kHz  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2025-10-09 to 2025-10-24  
Input voltage : DC 3.7V  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 24.8 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

**Table 7: Test Result of Conducted Power Spectral Density**

Data Rate	Channel Frequency (MHz)	Measured Conducted Power Spectral Density	Limit
		(dBm / 3kHz)	
1 Mbps	2402	-9.21	8 dBm / 3kHz
	2440	-8.94	
	2480	-9.34	
2 Mbps	2402	-12.50	8 dBm / 3kHz
	2440	-12.23	
	2480	-12.66	



**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 17 von 22  
Page 17 of 22

### 5.1.4 99%dB Bandwidth

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

Test standard : RSS-Gen clause 6.7  
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2025-10-09 to 2025-10-24  
Input voltage : DC 3.7V  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 24.8 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

**Table 8: Test Result of 99% Bandwidth**

Data Rate	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
1 Mbps	2402	1.0340	/
	2440	1.0298	
	2480	1.0376	
2 Mbps	2402	2.0474	/
	2440	2.0437	
	2480	2.0391	

Note: The fundamental emissions stay within the allocated band 2400-2483.5MHz.

**Prüfbericht-Nr.: CN25UWVP 002**  
*Test report no.:*

Seite 18 von 22  
Page 18 of 22

### 5.1.5 6dB Bandwidth

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

Test standard : FCC Part 15.247(a)(2)  
RSS-247 Clause 5.2(a)  
Basic standard : ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-  
2023+C63.10a-2024  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2025-10-09 to 2025-10-24  
Input voltage : DC 3.7V  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 24.8 °C  
Relative humidity : 55 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

**Table 9: Test Result of 6dB Bandwidth, Left earbud**

Data Rate	Channel Frequency (MHz)	Measured 6dB Bandwidth	Limit
		(MHz)	
1 Mbps	2402	0.668	>500kHz
	2440	0.684	
	2480	0.672	
2 Mbps	2402	1.168	>500kHz
	2440	1.168	
	2480	1.136	

Prüfbericht-Nr.: **CN25UWVP 002**  
Test report no.:

Seite 19 von 22  
Page 19 of 22

### 5.1.6 Frequency stability

RESULT:

**Pass**

#### Test Specification

Test standard	: RSS-247 Clause 8.11
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: within at least the central 80% of its permitted operating frequency band (2400-2483.5MHz)
Kind of test site	: Shielded Room

#### Test Setup

Date of testing	: 2025-10-09 to 2025-10-24
Input voltage	: DC 3.7V
Operation mode	: B
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht-Nr.: **CN25UWVP 002**  
Test report no.:Seite 20 von 22  
Page 20 of 22**5.1.7 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 C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
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	: 2025-10-09 to 2025-10-24
Input voltage	: DC 3.7V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

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

For the measurement records, refer to the appendix B .

Prüfbericht-Nr.: **CN25UWVP 002**  
Test report no.:

Seite 21 von 22  
Page 21 of 22

## 5.1.8 Radiated Spurious Emission

### RESULT:

**Pass**

#### Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

#### Test Setup

Date of testing	: 2025-10-09 to 2025-10-24
Input voltage	: DC 3.7V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

#### Remark:

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

For the measurement records, refer to the appendix B.

## 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: Technical Specification of EUT .....	8
Table 3: RF Channel and Frequency of Classic Bluetooth.....	9
Table 4: RF Channel and Frequency of Bluetooth Low Energy .....	9
Table 5: List of Accessories and Auxiliary Equipment.....	11
Table 6: Test Result of Maximum Peak Conducted Output Power.....	15
Table 7: Test Result of Conducted Power Spectral Density.....	16
Table 8: Test Result of 99% Bandwidth .....	17
Table 9: Test Result of 6dB Bandwidth, Left earbud .....	18

## Appendix B: Test Results of Bluetooth Low Energy

APPENDIX B: TEST RESULTS OF BLUETOOTH LOW ENERGY .....	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY .....	2
APPENDIX B.2: TEST RESULTS OF 6dB BANDWIDTH .....	5
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH .....	8
APPENDIX B.4: TEST RESULTS OF FREQUENCY STABILITY .....	11
APPENDIX B.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH .....	13
<i>Conducted Spurious Emission</i> .....	13
<i>Band edge measurements</i> .....	19
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....	22
30 MHz - 1GHz .....	22
1GHz - 18GHz .....	24
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS .....	36

## Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.21	≤8.00	PASS
		2440	-8.94	≤8.00	PASS
		2480	-9.34	≤8.00	PASS
BLE_2M	Ant1	2402	-12.50	≤8.00	PASS
		2440	-12.23	≤8.00	PASS
		2480	-12.66	≤8.00	PASS

BLE 1M Ant1 2402



BLE 1M Ant1 2440





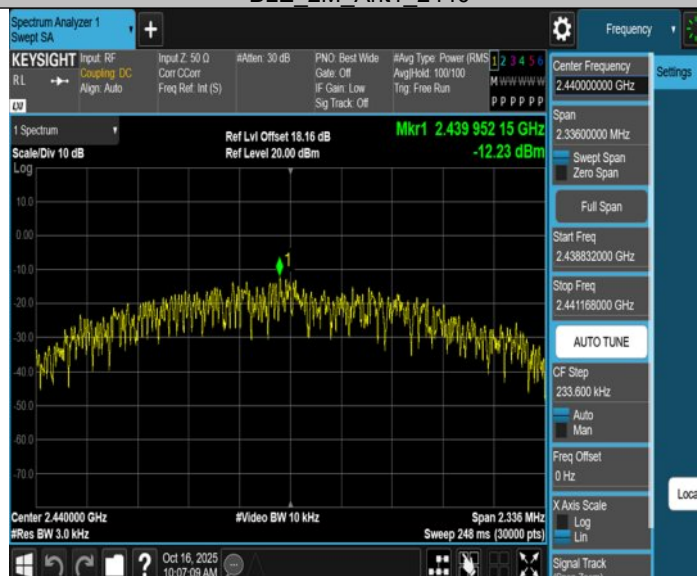
BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440





## Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.656	2402.324	0.5	PASS
		2440	0.684	2439.648	2440.332	0.5	PASS
		2480	0.672	2479.656	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.168	2401.416	2402.584	0.5	PASS
		2440	1.168	2439.412	2440.580	0.5	PASS
		2480	1.136	2479.420	2480.556	0.5	PASS

BLE\_1M Ant1 2402



BLE\_1M Ant1 2440



# Appendix B CN25UWVP 002



Prüfbericht - Produkte  
Test Report - Products

Page 6 of 43

BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440







### Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0340	2401.4879	2402.5219	---	---
		2440	1.0298	2439.4902	2440.5200	---	---
		2480	1.0376	2479.4856	2480.5232	---	---
BLE_2M	Ant1	2402	2.0474	2400.9913	2403.0387	---	---
		2440	2.0437	2438.9920	2441.0357	---	---
		2480	2.0391	2478.9906	2481.0297	---	---

BLE\_1M Ant1 2402



BLE\_1M Ant1 2440



Appendix B  
CN25UWVP 002

Prüfbericht - Produkte  
Test Report - Products

Page 9 of 43

BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440







## Appendix B.4: Test Results of Frequency stability

Test Channel (MHz)	2402
-----------------------	------

### Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2401.9957	-4.3	-1.79	10
DC 3.33V	2401.9962	-3.8	-1.58	
DC 4.07V	2401.9949	-5.1	-2.12	

### Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.9929	-7.1	-2.96	10
-20	2401.9930	-7	-2.91	
-10	2401.9931	-6.9	-2.87	
0	2401.9935	-6.5	-2.71	
10	2401.9937	-6.3	-2.62	
20	2401.9942	-5.8	-2.41	
30	2401.9946	-5.4	-2.25	
40	2401.9949	-5.1	-2.12	
50	2401.9952	-4.8	-2.00	
55	2401.9957	-4.3	-1.79	

Test Channel (MHz)	2440
-----------------------	------

### Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2439.9957	-4.3	-1.76	10
DC 3.33V	2439.9965	-3.5	-1.43	
DC 4.07V	2439.9947	-5.3	-2.17	

### Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2439.9927	-7.3	-2.99	10
-20	2439.9930	-7	-2.87	
-10	2439.9938	-6.2	-2.54	
0	2439.9941	-5.9	-2.42	
10	2439.9947	-5.3	-2.17	
20	2439.9952	-4.8	-1.97	
30	2439.9955	-4.5	-1.84	
40	2439.9957	-4.3	-1.76	
50	2439.9965	-3.5	-1.43	
55	2439.9971	-2.9	-1.19	

Test Channel (MHz)	2480
-----------------------	------

**Test result of frequency tolerance of voltage variation**

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.7V	2479.9957	-4.3	-1.73	10
DC 3.33V	2479.9966	-3.4	-1.37	
DC 4.07V	2479.9952	-4.8	-1.94	

**Test result of frequency tolerance of temperature variation**

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.9930	-7	-2.82	10
-20	2479.9935	-6.5	-2.62	
-10	2479.9937	-6.3	-2.54	
0	2479.9943	-5.7	-2.30	
10	2479.9945	-5.5	-2.22	
20	2479.9947	-5.3	-2.14	
30	2479.9953	-4.7	-1.90	
40	2479.9958	-4.2	-1.69	
50	2479.9961	-3.9	-1.57	
55	2479.9967	-3.3	-1.33	

## Appendix B.5: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.47	5.47	---	PASS
			30~1000	5.47	-62.42	≤-14.53	PASS
			1000~26500	5.47	-53.06	≤-14.53	PASS
		2440	Reference	5.70	5.70	---	PASS
			30~1000	5.70	-61.41	≤-14.3	PASS
			1000~26500	5.70	-53.17	≤-14.3	PASS
		2480	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-62.02	≤-14.71	PASS
			1000~26500	5.29	-52.73	≤-14.71	PASS
BLE_2M	Ant1	2402	Reference	5.39	5.39	---	PASS
			30~1000	5.39	-61.07	≤-14.61	PASS
			1000~26500	5.39	-52.43	≤-14.61	PASS
		2440	Reference	5.34	5.34	---	PASS
			30~1000	5.34	-62.28	≤-14.66	PASS
			1000~26500	5.34	-53.04	≤-14.66	PASS
		2480	Reference	5.18	5.18	---	PASS
			30~1000	5.18	-61.23	≤-14.82	PASS
			1000~26500	5.18	-52.91	≤-14.82	PASS

BLE 1M Ant1 2402 0~Reference



BLE 1M Ant1 2402 30~1000



BLE 1M Ant1 2402 1000~26500



BLE 1M Ant1 2440 0~Reference



BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



BLE 1M Ant1 2480 1000~26500



BLE 2M Ant1 2402 0~Reference





BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500



BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



BLE 2M Ant1 2440 1000~26500



BLE 2M Ant1 2480 0~Reference







## Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.14	-44.40	≤-14.86	PASS
		High	2480	5.42	-44.61	≤-14.58	PASS
BLE_2M	Ant1	Low	2402	5.42	-38.78	≤-14.58	PASS
		High	2480	5.23	-44.84	≤-14.77	PASS

# Appendix B CN25UWVP 002



Prüfbericht - Produkte  
Test Report - Products

Page 20 of 43





## Appendix B.6: Test Results of Radiated Spurious Emissions

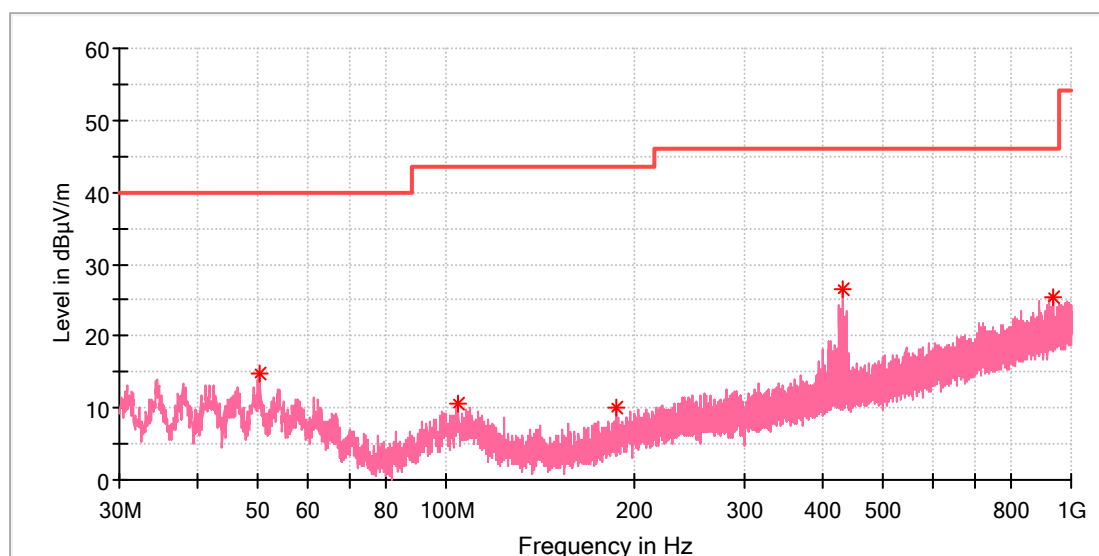
Note:

- 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 - 1GHz

### EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

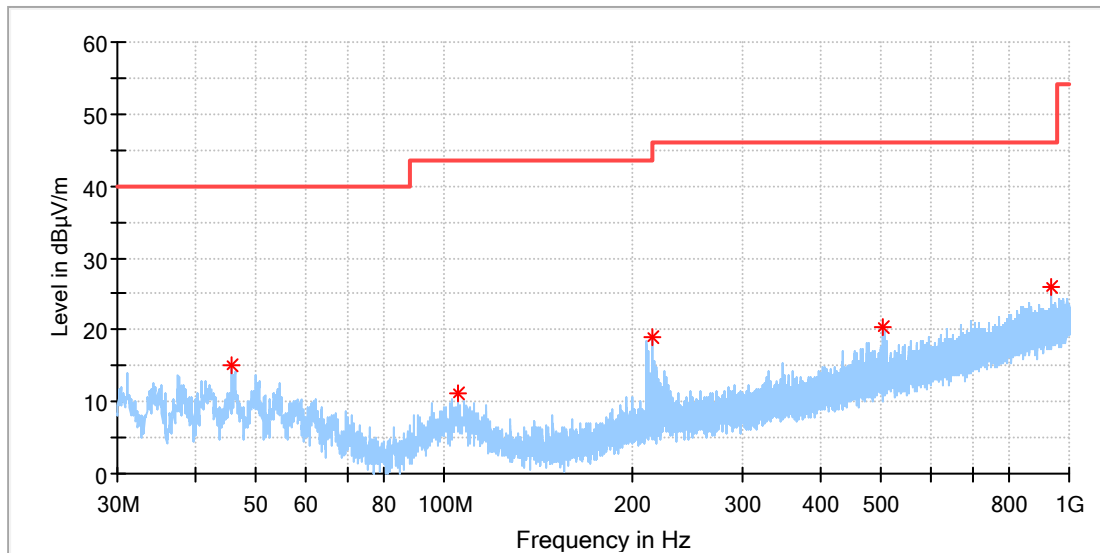


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.220769	14.86	40.00	25.14	100.0	V	159.0	-18.4
104.391539	10.58	43.50	32.92	100.0	V	6.0	-18.9
186.804231	10.04	43.50	33.46	100.0	V	296.0	-19.9
431.990385	26.50	46.00	19.50	100.0	V	35.0	-13.1
938.442308	25.30	46.00	20.70	100.0	V	0.0	-4.4

## EUT Information

EUT Name: BLUETOOTH HEADSET  
Model: LIVE 680NC  
Test Mode: BLE 1M\_Mid channel  
Order No/Sample No: 168575688/A004105303-022  
Test Voltage:: Battery  
Remark: Temp 23 Humi:56%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

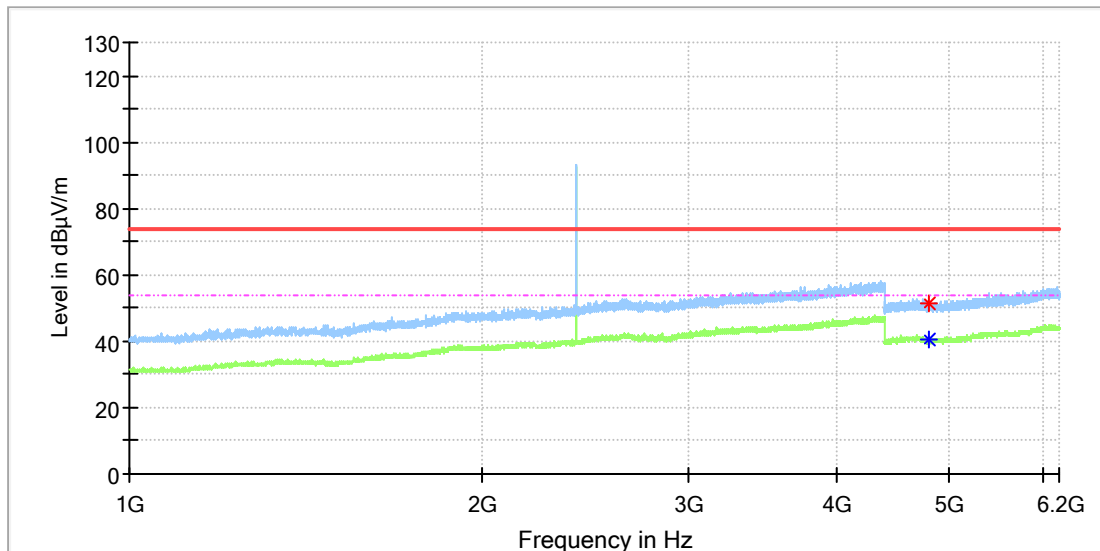
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.669231	15.02	40.00	24.98	100.0	H	343.0	-18.8
104.951154	11.13	43.50	32.37	100.0	H	79.0	-18.9
215.419231	19.06	43.50	24.44	100.0	H	143.0	-18.7
504.031539	20.30	46.00	25.70	100.0	H	113.0	-11.8
938.405000	25.98	46.00	20.02	100.0	H	298.0	-4.4

1GHz - 18GHz

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

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

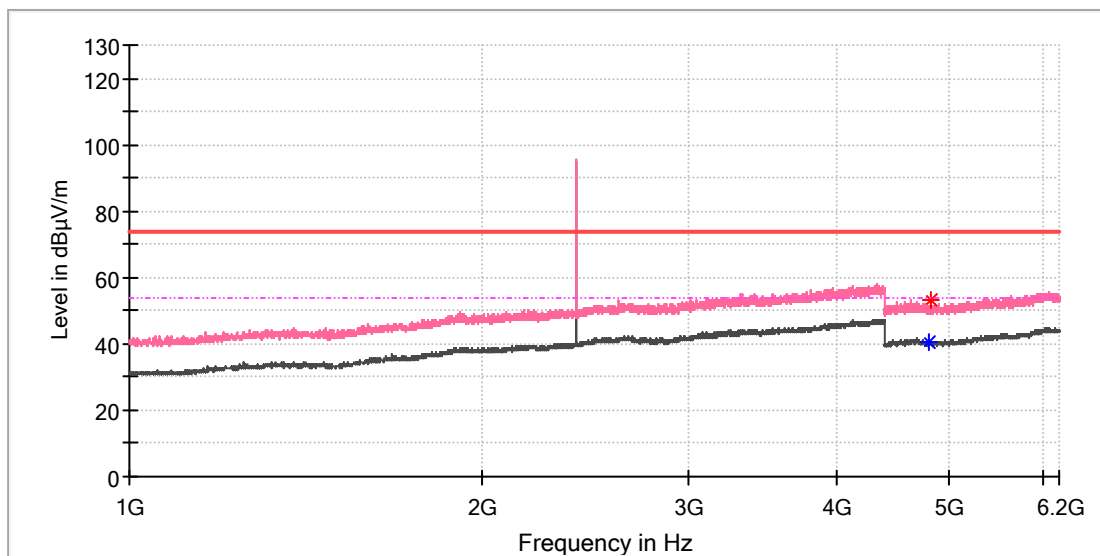


## Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	51.55	---	74.00	22.45	150.0	H	231.0	13.3
4804.000000	---	40.80	54.00	13.20	150.0	H	231.0	13.3

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

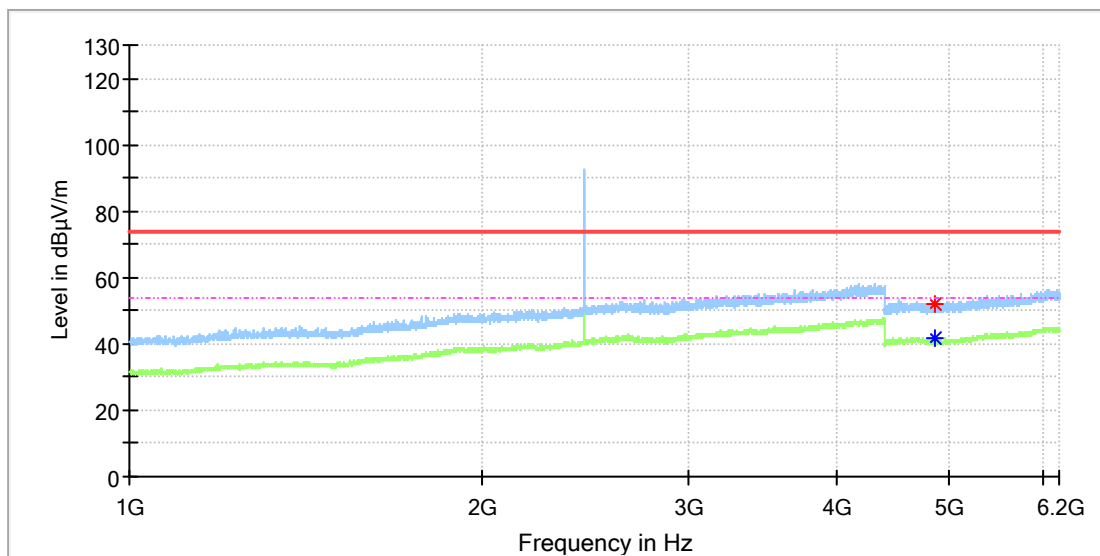


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4810.000000	---	40.81	54.00	13.19	150.0	V	326.0	13.3
4819.000000	53.01	---	74.00	20.99	150.0	V	296.0	13.3

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



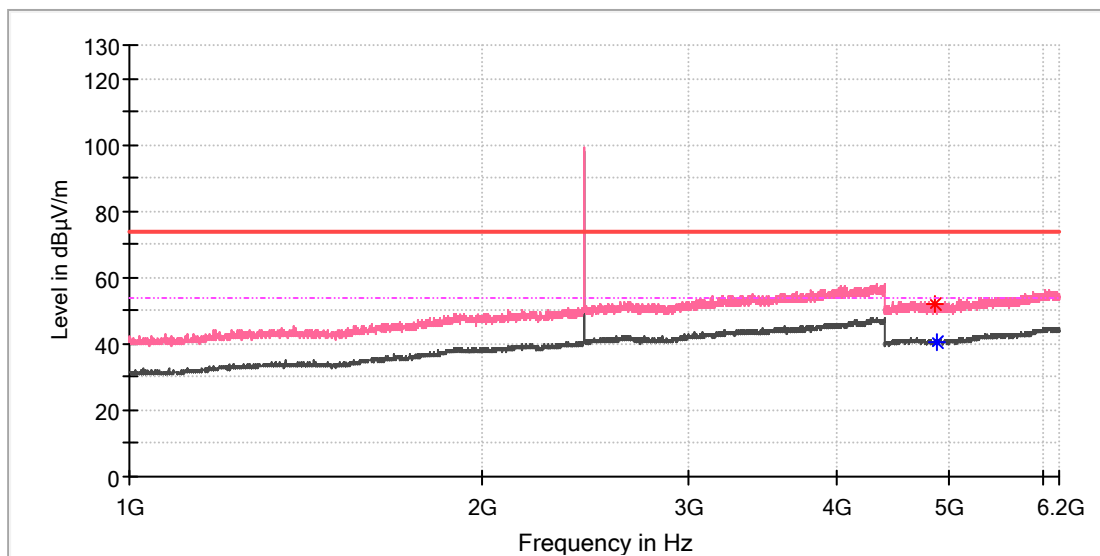
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.000000	52.10	---	74.00	21.90	150.0	H	13.0	13.3
4862.000000	---	41.56	54.00	12.44	150.0	H	19.0	13.3



## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

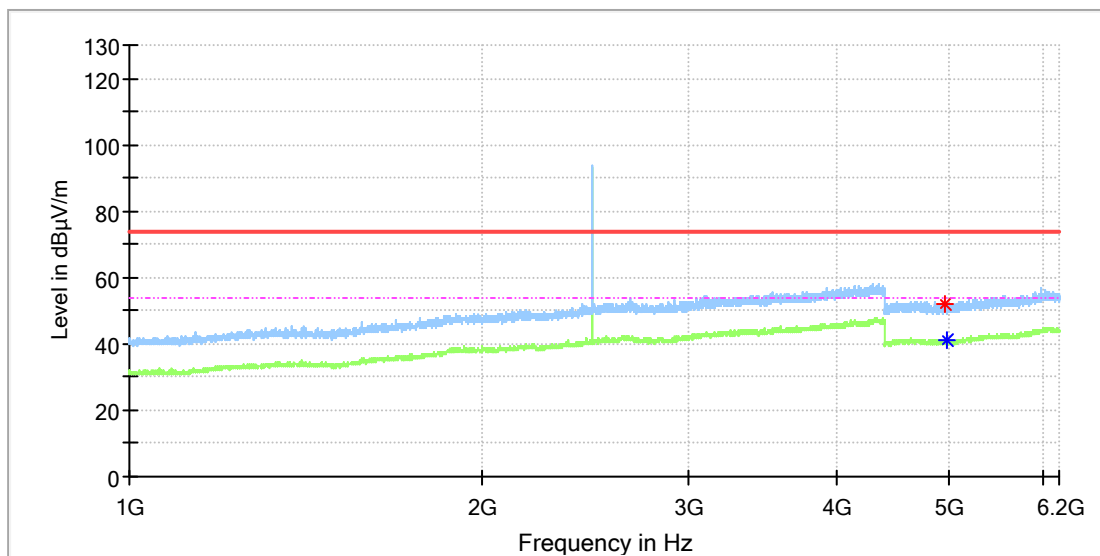


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4862.500000	52.13	---	74.00	21.87	150.0	V	18.0	13.3
4870.000000	---	40.78	54.00	13.22	150.0	V	24.0	13.3

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

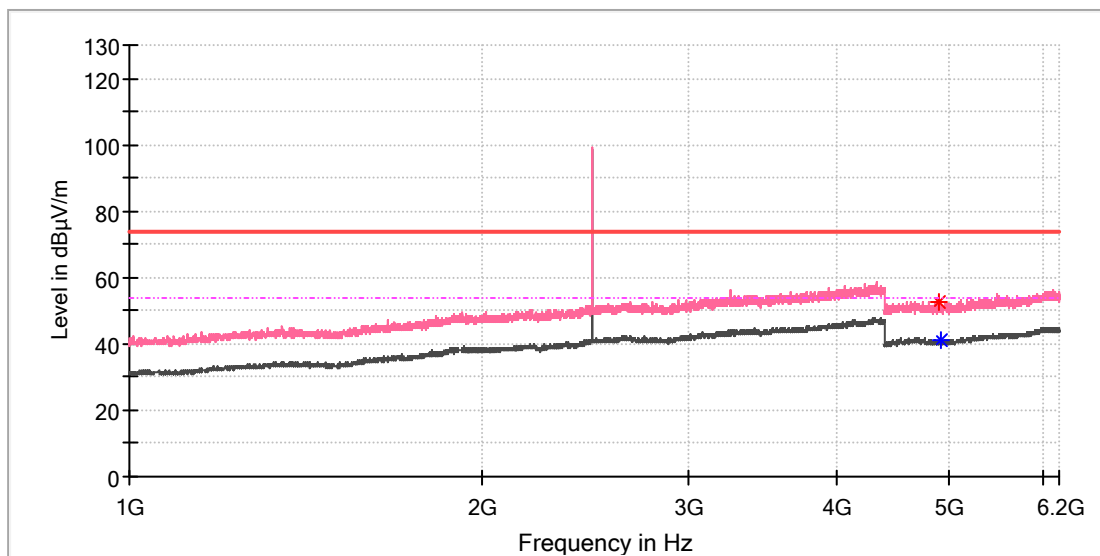


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.500000	52.00	---	74.00	22.00	150.0	H	134.0	13.3
4967.000000	---	40.97	54.00	13.03	150.0	H	238.0	13.3

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

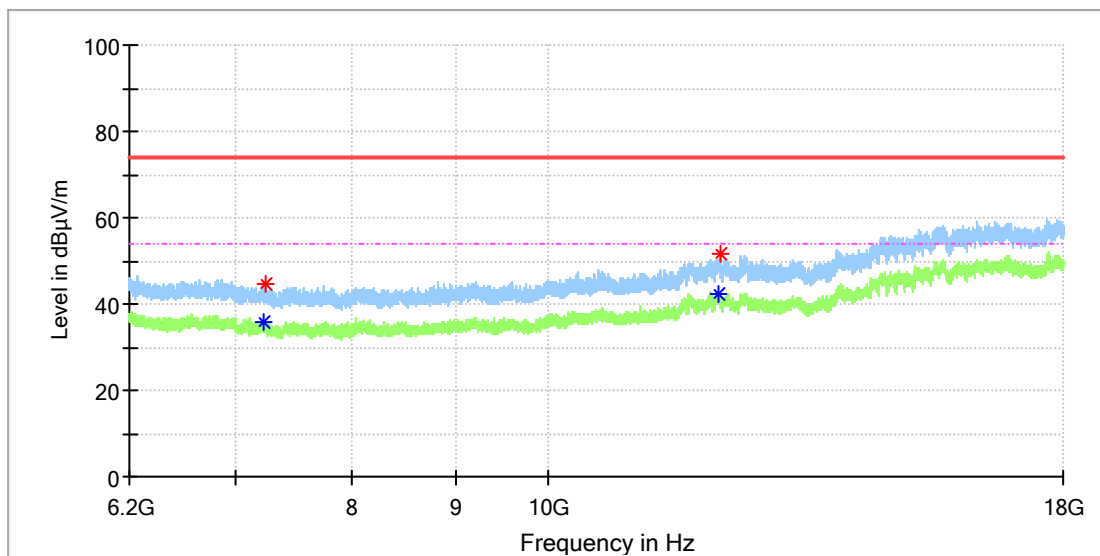


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4905.000000	52.58	---	74.00	21.42	150.0	V	340.0	13.3
4917.000000	---	40.90	54.00	13.10	150.0	V	117.0	13.3

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

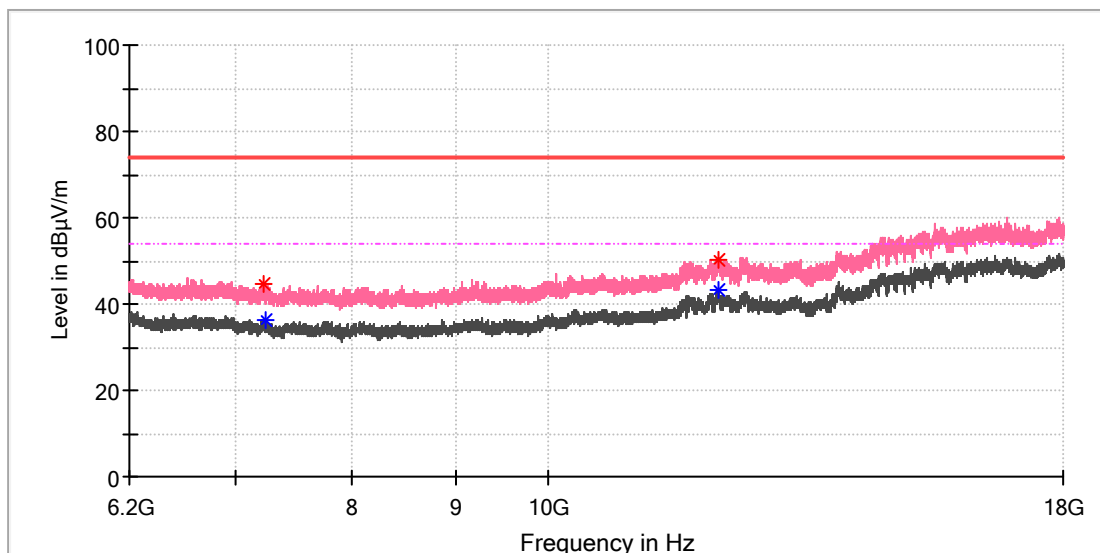


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7219.716667	---	35.85	54.00	18.15	150.0	H	145.0	8.7
7251.183333	44.61	---	74.00	29.39	150.0	H	308.0	8.5
12145.233333	---	42.41	54.00	11.59	150.0	H	4.0	16.6
12175.225000	51.52	---	74.00	22.48	150.0	H	29.0	15.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

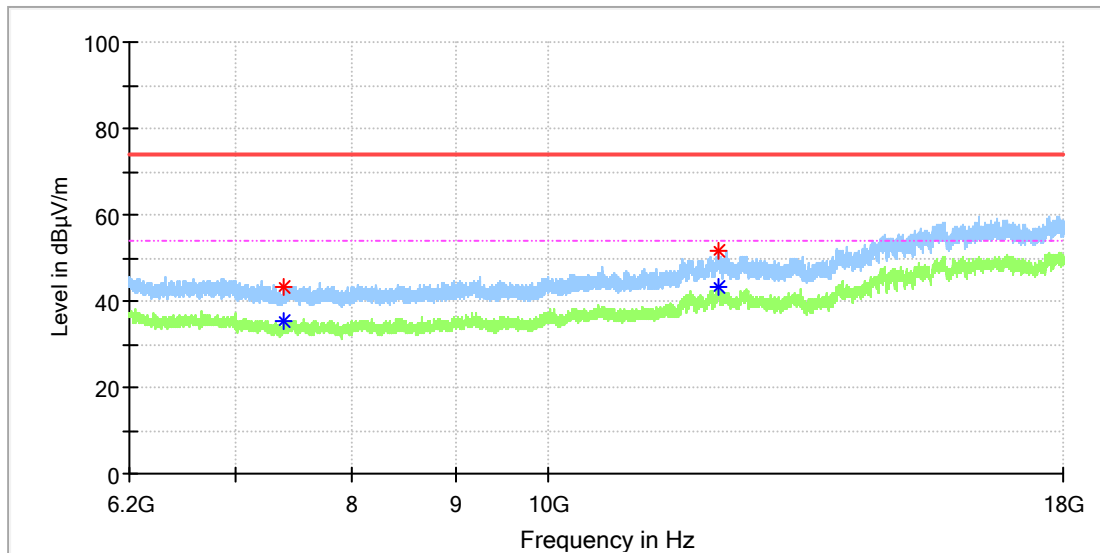


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7231.025000	44.43	---	74.00	29.57	150.0	V	24.0	8.6
7241.841667	---	36.41	54.00	17.59	150.0	V	318.0	8.6
12137.858333	50.46	---	74.00	23.54	150.0	V	4.0	16.4
12147.200000	---	43.12	54.00	10.88	150.0	V	57.0	16.7

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

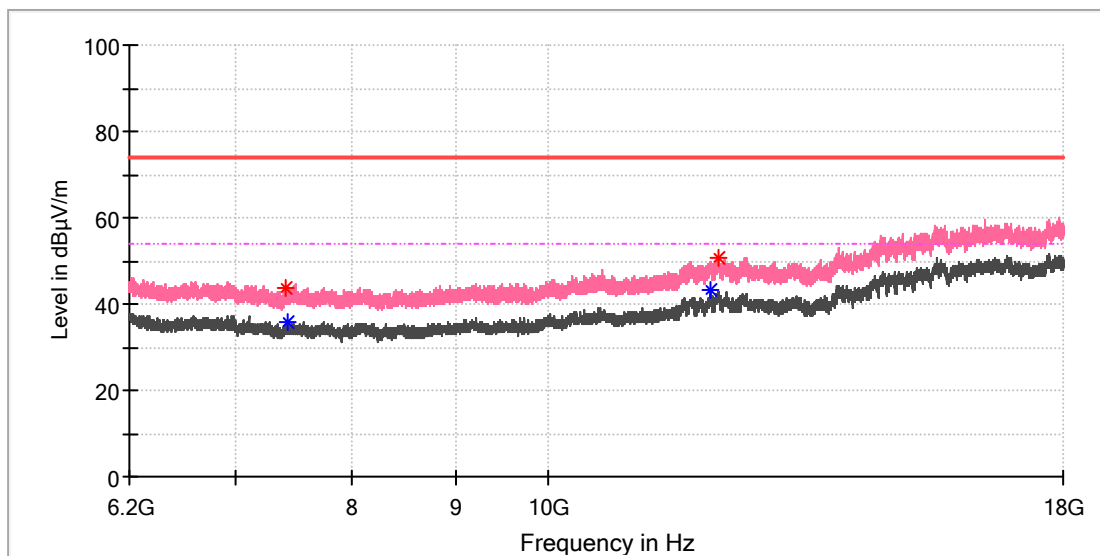


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7396.225000	43.36	---	74.00	30.64	150.0	H	259.0	8.3
7398.191667	---	35.42	54.00	18.58	150.0	H	0.0	8.3
12150.150000	51.66	---	74.00	22.34	150.0	H	178.0	16.7
12150.150000	---	43.35	54.00	10.65	150.0	H	178.0	16.7

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

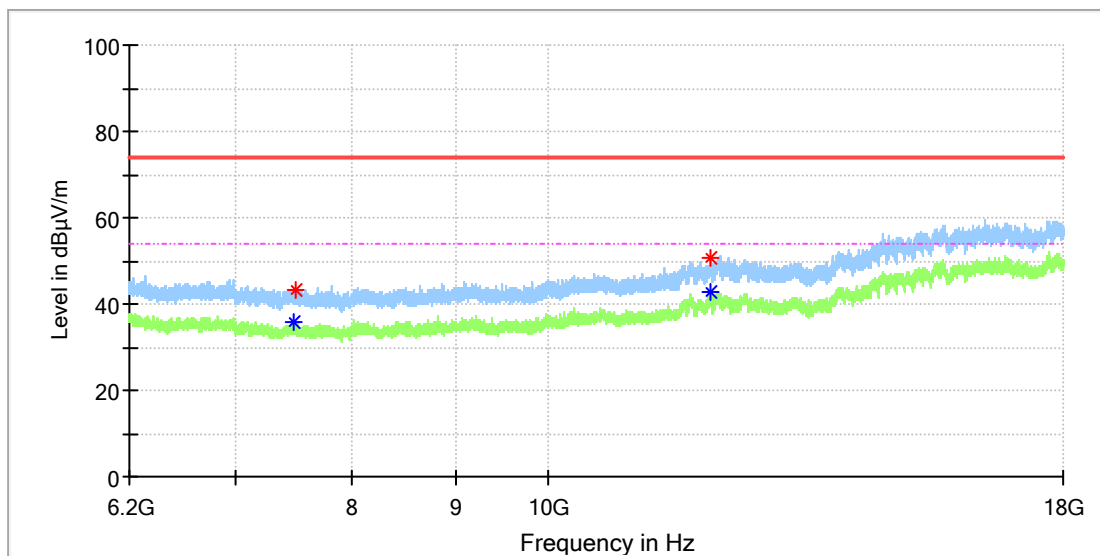


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7402.616667	43.91	---	74.00	30.09	150.0	V	105.0	8.3
7419.825000	---	35.65	54.00	18.35	150.0	V	14.0	8.4
12047.883333	---	43.24	54.00	10.76	150.0	V	14.0	16.4
12154.575000	50.86	---	74.00	23.14	150.0	V	5.0	16.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



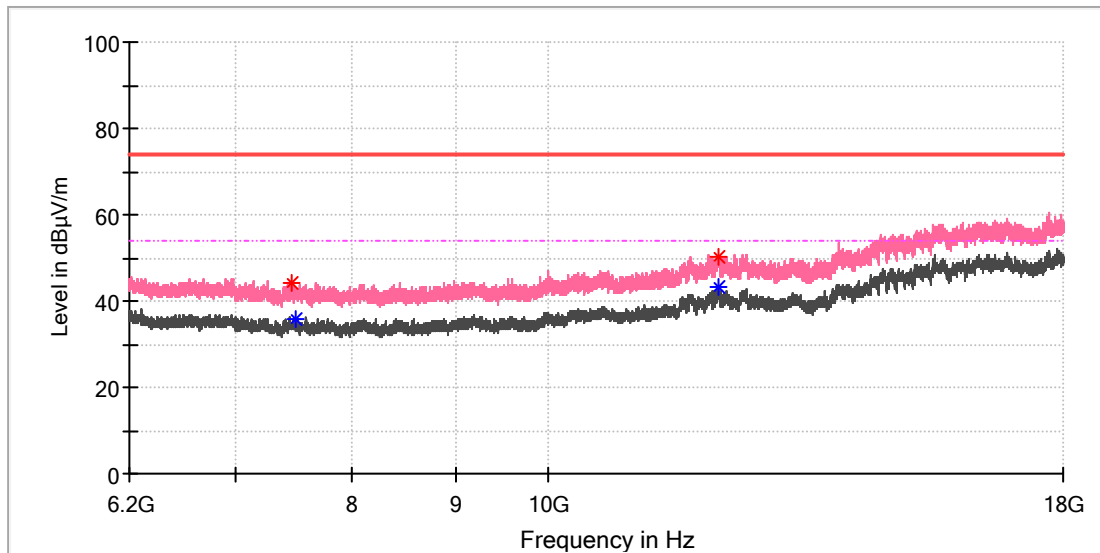
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7483.741667	---	35.78	54.00	18.22	150.0	H	345.0	8.7
7494.558333	43.07	---	74.00	30.93	150.0	H	309.0	8.7
12023.300000	50.92	---	74.00	23.08	150.0	H	198.0	15.8
12042.475000	---	43.02	54.00	10.98	150.0	H	120.0	16.2



## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



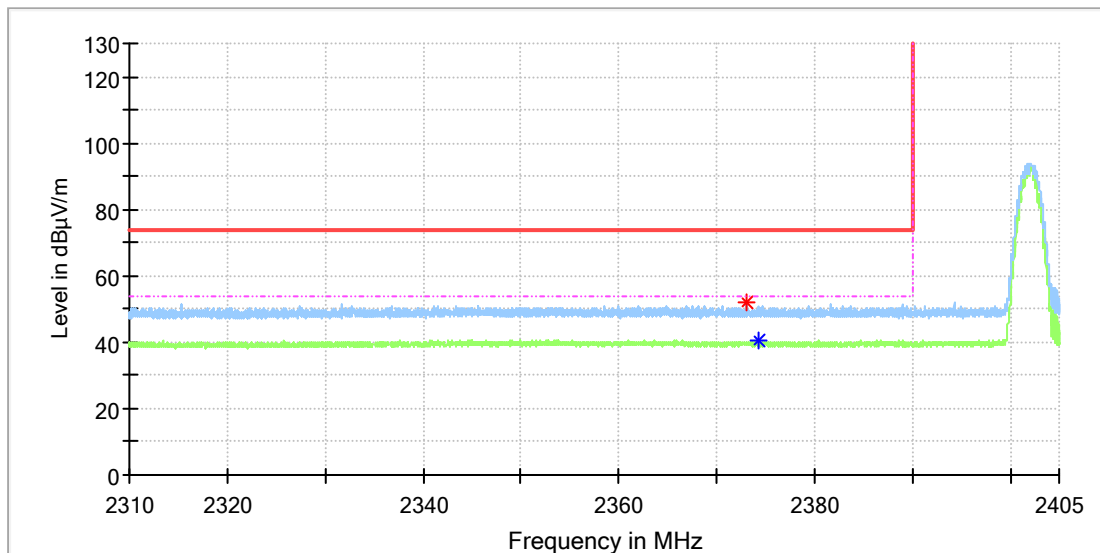
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7468.008333	44.13	---	74.00	29.87	150.0	V	240.0	8.6
7504.391667	---	35.90	54.00	18.10	150.0	V	162.0	8.7
12144.250000	---	43.18	54.00	10.82	150.0	V	140.0	16.6
12155.558333	50.26	---	74.00	23.74	150.0	V	287.0	16.4

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

### EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

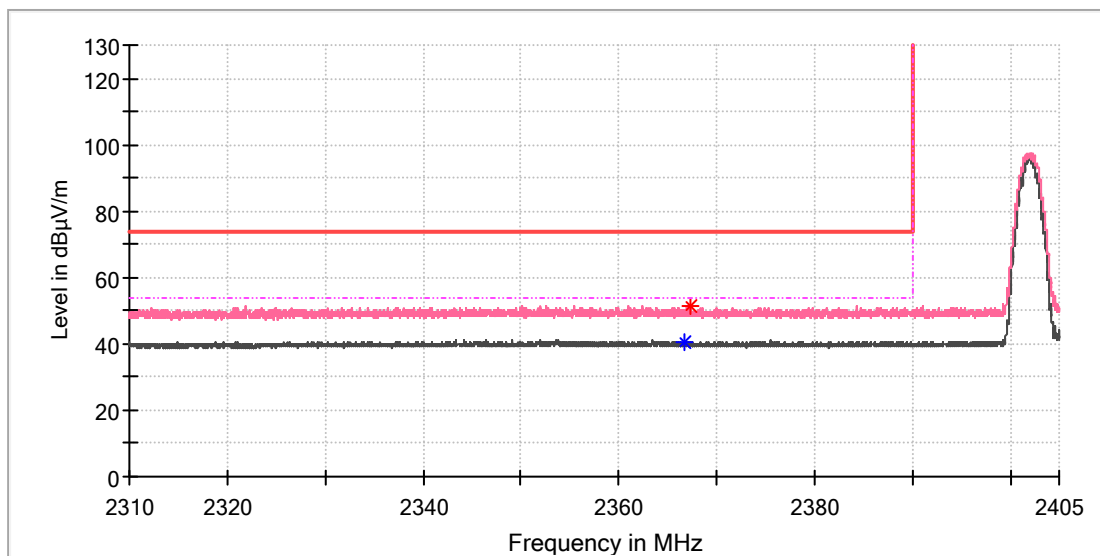


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2372.992941	51.86	---	74.00	22.14	150.0	H	32.0	8.5
2374.362353	---	40.57	54.00	13.43	150.0	H	328.0	8.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

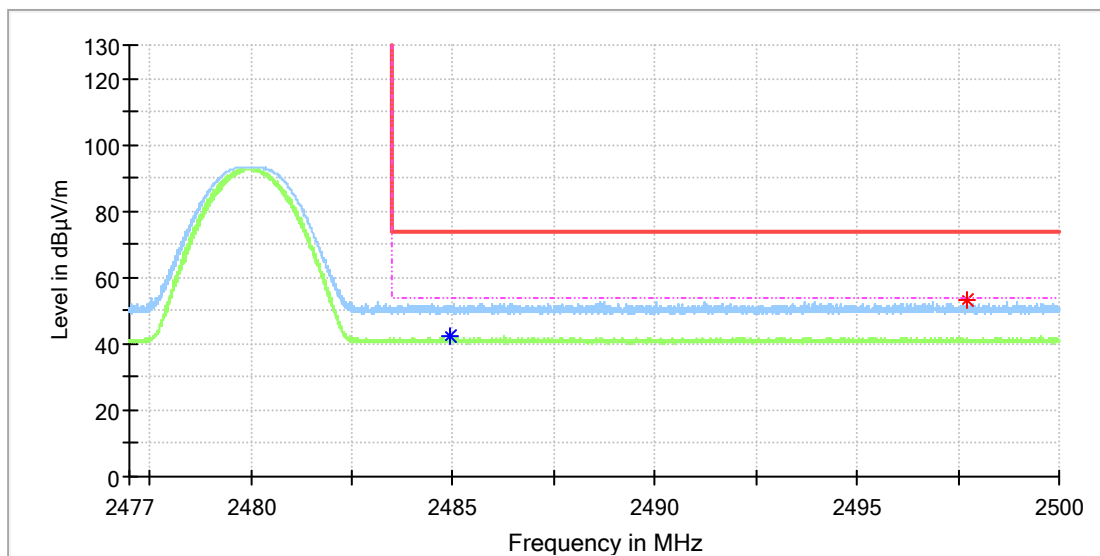


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2366.752941	---	40.49	54.00	13.51	150.0	V	60.0	8.5
2367.289412	51.53	---	74.00	22.47	150.0	V	30.0	8.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

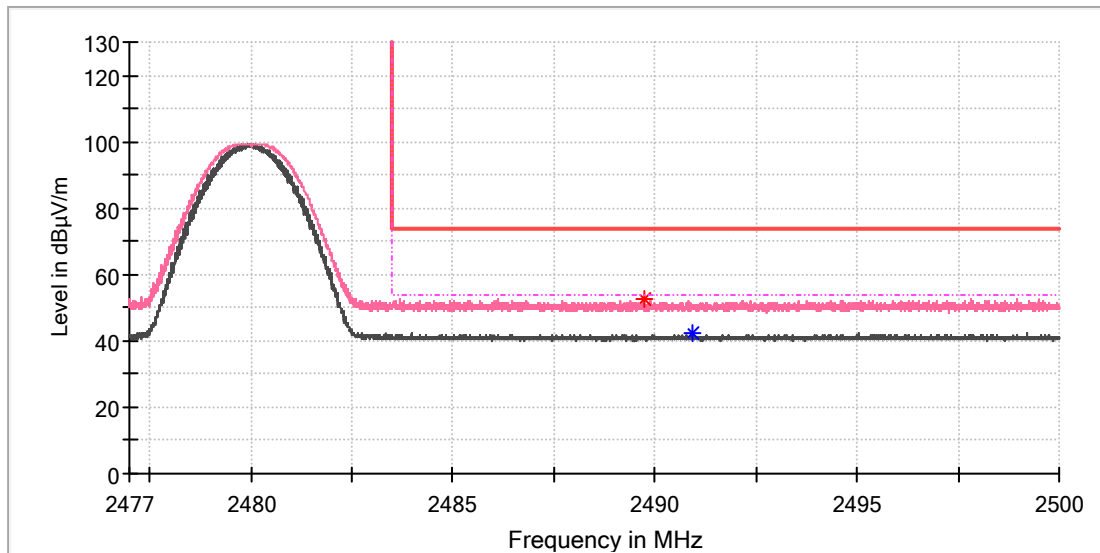


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.921471	---	42.44	54.00	11.56	150.0	H	182.0	9.0
2497.727059	53.23	---	74.00	20.77	150.0	H	258.0	9.0

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

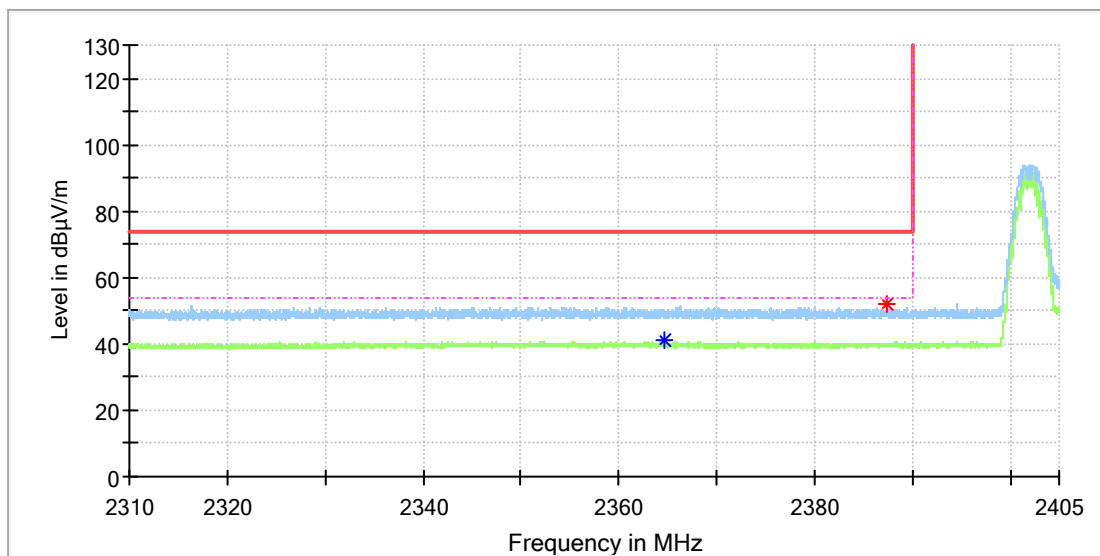


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2489.717647	52.84	---	74.00	21.16	150.0	V	341.0	9.0
2490.945441	---	42.23	54.00	11.77	150.0	V	66.0	9.0

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

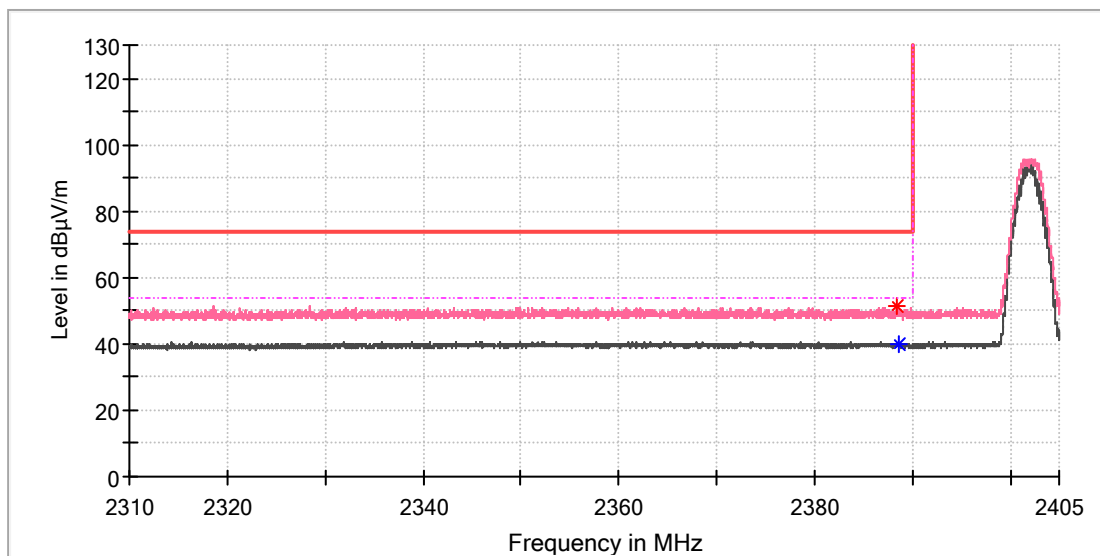


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2364.691765	---	40.82	54.00	13.18	150.0	H	5.0	8.5
2387.336471	51.86	---	74.00	22.14	150.0	H	101.0	8.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

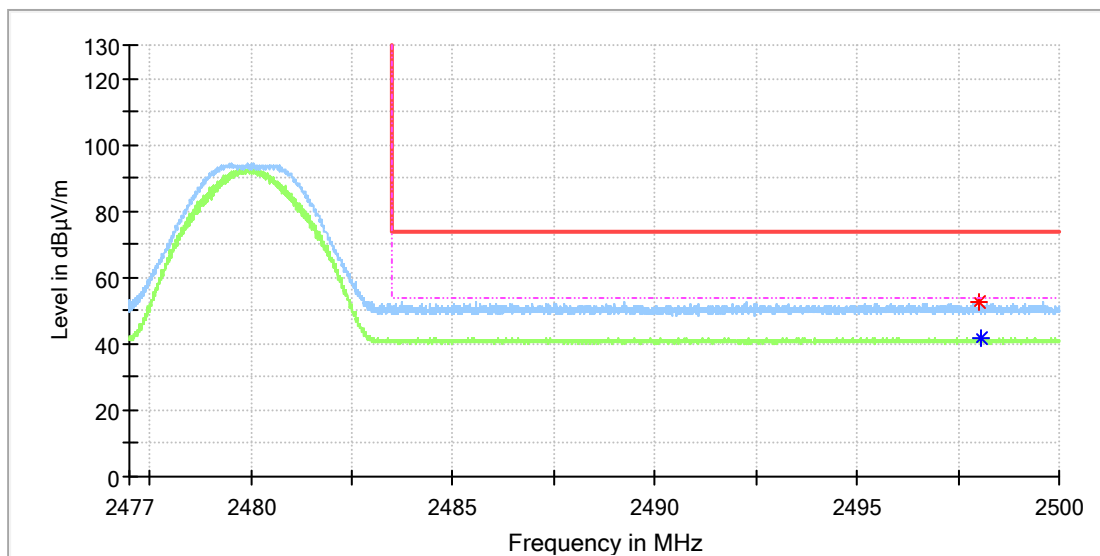


## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.409412	51.42	---	74.00	22.58	150.0	V	134.0	8.5
2388.578824	---	40.06	54.00	13.94	150.0	V	1.0	8.5

## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



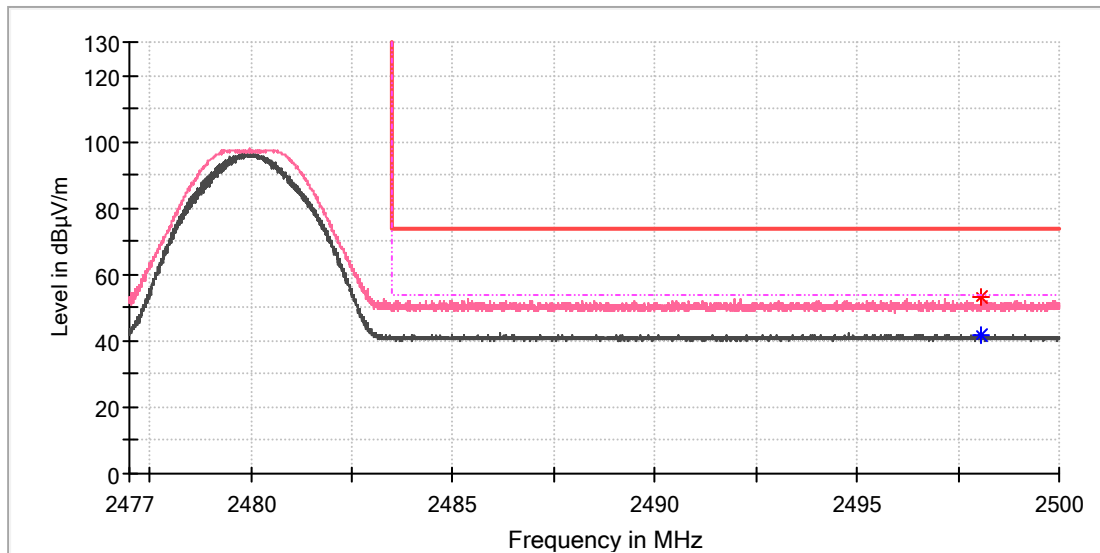
## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2498.031471	52.83	---	74.00	21.17	150.0	H	0.0	9.0
2498.075441	---	41.70	54.00	12.30	150.0	H	119.0	9.0



## EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	LIVE 680NC
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168575688/A004105303-022
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
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)
2498.051765	---	41.96	54.00	12.04	150.0	V	316.0	9.0
2498.051765	53.25	---	74.00	20.75	150.0	V	316.0	9.0