Prüfbericht-Nr.: *Test report no.*:	**CN250W4O 001**	**Auftrags-Nr.:** *Order no.*:	168518141	**Page 1 of 24** *Seite 1 von 24*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2024-12-10	
Auftraggeber: *Client*:	**Harman International Industries, Inc** 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: *Test item*:	BLUETOOTH HEADSET			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	SENSE LITE (Trademark: JBL)			
Auftrags-Inhalt: *Order content*:	Type test			
Prüfgrundlage: *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 March 2019	

Wareneingangsdatum: *Date of sample receipt*:	2024-12-10	Refer to photos document
Prüfmuster-Nr.: *Test sample no:*	A003880376	
Prüfzeitraum: *Testing period*:	2024-12-10 – 2024-12-20	
Ort der Prüfung: *Place of testing*:	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result**:	Pass	

geprüft von: tested by:	x Signed by: Harry W. C. Wu	**genehmigt von:** *authorized by*:	x Signed by: Alex Lan
Datum: *Date:* 2025-02-28		**Ausstellungsdatum:** *Issue date:* 2025-02-28	
Stellung / Position:	Project Manager	**Stellung** / Position:	Authorizer

Sonstiges / *Other*: FCC ID: APIJBLSLITE
IC: 6132A-JBLSLITE HVIN: SENSE LITE

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Remarks
Anmerkungen

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. *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.* *Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.*
2	As contractually agreed, this document has been signed digitally only. TUV 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, TUV 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. *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.*
3	Test clauses with remark of * are subcontracted to qualified subcontractors and descripted 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. *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.*
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. *Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen 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 bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.*

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 99% BANDWIDTH
RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.6 20DB BANDWIDTH
RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.8 FREQUENCY STABILITY
RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.10 TIME OF OCCUPANCY
RESULT: Pass

Contents

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 Classical Bluetooth_Left Earbud

Appendix C: Test Results of Classical Bluetooth_Right Earbud

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110

FCC Registration No.: 694916

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	25.09.2025
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	25.09.2025
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	25.09.2025
DC Power Supply	Keysight	E3642A	MY61276100	25.09.2025
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025
Power Control Unit	Tonscend	JS0806-4ADC	N/A	25.09.2025
Automation Control Unit	Tonscend	JS0806-2	21C8060396	25.09.2025
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	28.02.2025
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
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 basics 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 & C 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 No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110 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 EUTs are Bluetooth earbuds, the left & right earbuds support Bluetooth dual mode technology. The Bluetooth earbuds have five colors of enclosures (Black, White, Deige, Blue, Purple).

There is no difference except the PCB layout of left and right earbuds.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	BLUETOOTH HEADSET
Type Designation	SENSE LITE
Trademark	JBL
FCC ID	APIJBLSLITE
IC	6132A-JBLSLITE
HVIN	SENSE LITE
Extreme Temperature Range	0ºC to +45ºC
Operating Voltage	Input: 5V DC Li-ion polymer cell: 3.85V, 55mAh
Technical Specification of Classical Bluetooth	
Bluetooth Core Version	Bluetooth 5.4
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, π/4DQPSK, 8DPSK
Antenna Type	FPC antenna
Antenna Gain	-3.31 dBi for left earbud -4.43 dBi for right earbud (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.4
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	-3.31 dBi for left earbud -4.43 dBi for right earbud (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	**78**	**2480.00**
19	2421.00	**39**	**2441.00**	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	**19**	**2440.00**	29	2460.00	**39**	**2480.00**

3.3 Independent Operation Modes

The basic operation modes are:

A. On
   1. Bluetooth transmitting mode (BR & EDR mode)
      a) Low Channel
      b) Middle Channel
      c) High Channel

B. On, Transmitting on Hopping channel

C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

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)

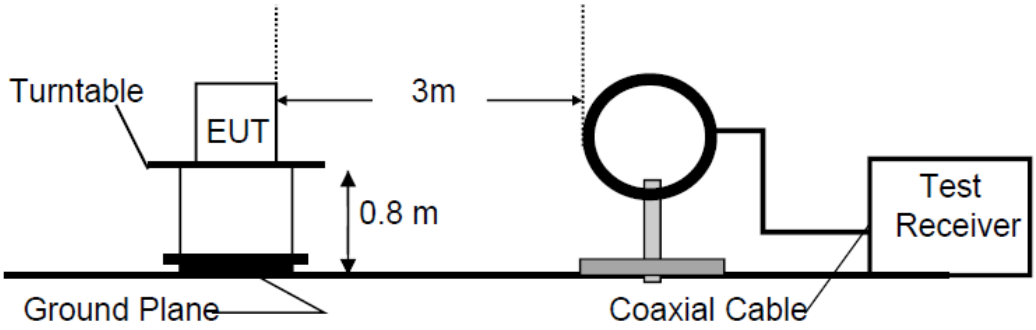


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

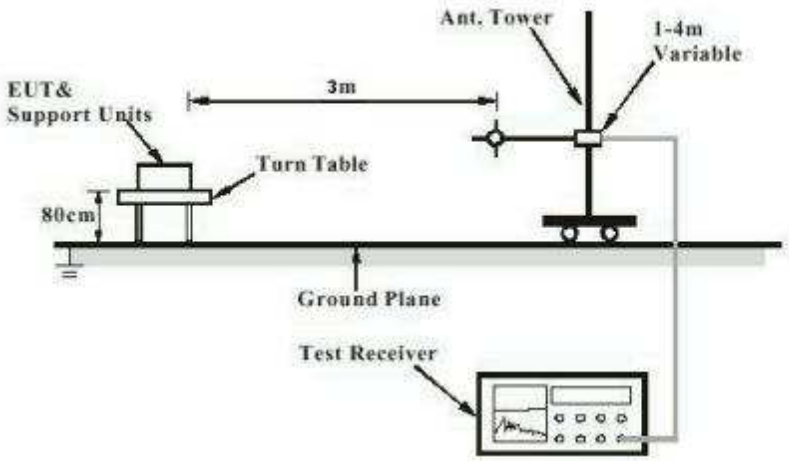


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

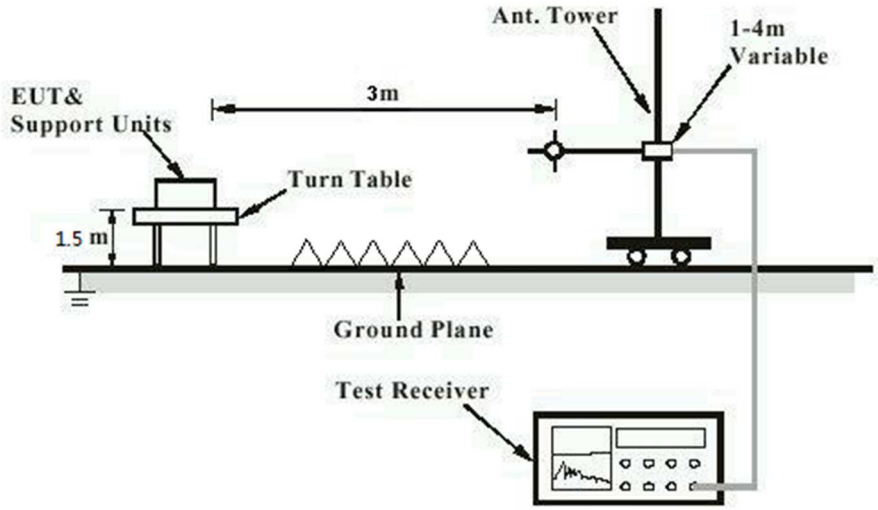
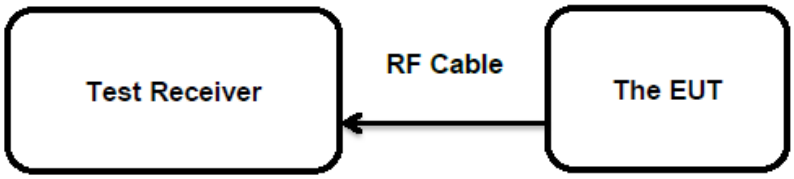


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 8.3

According to the manufacturer declared, the EUT has two FPC antennas, the directional gain of antennas: Left earbuds: -3.31dBi, Right earbuds: -4.43dBi, 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.

5.1.2 Maximum Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(b)
Basic standard	ANSI C63.10: 2013
Limits	FHSS<0.125W(Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	Shielded Room

Test Setup

Date of testing	2024-12-10 to 2024-12-20
Input voltage	DC 3.85V for left and right earbud
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	20.8 ℃
Relative humidity	48.2 %
Atmospheric pressure	101 kPa

Table 6: Test Result of Maximum Conducted Output Power

Left Earbud:

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	11.10	0.01288	< 0.125
	2441	10.75	0.01189	
	2480	10.49	0.01119	
EDR	2402	11.01	0.01262	
	2441	10.73	0.01183	
	2480	10.40	0.01096	
Maximum Measured Value		11.10	0.01288	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 7.79dBm less than 4W(36dBm).

Right Earbud:

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	11.48	0.01406	< 0.125
	2441	11.28	0.01343	
	2480	11.02	0.01265	
EDR	2402	11.34	0.01361	
	2441	11.19	0.01315	
	2480	11.07	0.01279	
Maximum Measured Value		11.48	0.01406	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 7.05dBm less than 4W(36dBm).

5.1.3 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	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

Table 7: Test Result of 99% Bandwidth

Left Earbud:

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Limit
BR	2402	0.89916	/
	2441	0.89591	
	2480	0.89314	
EDR	2402	1.1868	/
	2441	1.1975	
	2480	1.1767	

Right Earbud:

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Limit
BR	2402	0.86820	/
	2441	0.89518	
	2480	0.85544	
EDR	2402	1.1796	/
	2441	1.1615	
	2480	1.1994	

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

5.1.4 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);
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

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

For the measurement records, refer to the appendix B&C.

5.1.5 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 Table 6 & Table 7
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix B&C.

5.1.6 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

Table 8: Test Result of -20dB Bandwidth

Left Earbud:

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (MHz)	Limit (MHz)
BR	2402	0.948	0.632	/
	2441	1.035	0.690	
	2480	1.020	0.680	
EDR	2402	1.302	0.868	/
	2441	1.236	0.824	
	2480	1.254	0.836	

Right Earbud:

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (MHz)	Limit (MHz)
BR	2402	1.014	0.676	/
	2441	1.014	0.676	
	2480	0.981	0.654	
EDR	2402	1.308	0.872	/
	2441	1.239	0.826	
	2480	1.191	0.794	

5.1.7 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

Table 9: Test Result of Carrier Frequency Separation

Left Earbud:

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.976	≥0.690	PASS
3DH5	Ant1	Hop	1.126	≥0.868	PASS

Right Earbud:

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.946	≥0.676	PASS
3DH5	Ant1	Hop	1.180	≥0.872	PASS

5.1.8 Frequency stability

RESULT: **Pass**

Test Specification

Test standard	:	RSS-247 Clause 8.11
Basic standard	:	ANSI C63.10: 2013
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	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	B
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

5.1.9 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	B
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

Table 10: Test Result of Number of Hopping Frequency

Left earbud:

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Right earbud:

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

5.1.10 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-12-10 to 2024-12-20
Input voltage	:	DC 3.85V for left and right earbud
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	20.8 ℃
Relative humidity	:	48.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B&C.

6 Photographs of the Test Set-Up

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

7 List of Tables

Appendix B: Test Results of Classical Bluetooth_Left Earbud

Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89916	2401.5472	2402.4464	---	---
		2441	0.89591	2440.5368	2441.4327	---	---
		2480	0.89314	2479.5198	2480.4130	---	---
3DH5	Ant1	2402	1.1868	2401.3956	2402.5824	---	---
		2441	1.1975	2440.3875	2441.5850	---	---
		2480	1.1767	2479.4029	2480.5796	---	---

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.472	2402.420	---	---
		2441	1.035	2440.472	2441.507	---	---
		2480	1.020	2479.493	2480.513	---	---
3DH5	Ant1	2402	1.302	2401.340	2402.642	---	---
		2441	1.236	2440.361	2441.597	---	---
		2480	1.254	2479.352	2480.606	---	---

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Appendix B.3: 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 3.85V	2401.990	-10	-4.16	10
DC 3.47V	2401.990	-10	-4.16	
DC 4.24V	2401.992	-8	-3.33	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.986	-14	-5.83	10
-20	2401.989	-11	-4.58	
-10	2401.990	-10	-4.16	
0	2401.990	-10	-4.16	
10	2401.991	-9	-3.75	
20	2401.990	-10	-4.16	
30	2401.991	-9	-3.75	
40	2401.992	-8	-3.33	
50	2401.992	-8	-3.33	
55	2401.991	-9	-3.75	

Test Channel (MHz)	2441

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.85V	2440.993	-7	-2.87	10
DC 3.47V	2440.993	-7	-2.87	
DC 4.24V	2440.993	-7	-2.87	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.991	-9	-3.69	10
-20	2440.992	-8	-3.28	
-10	2440.991	-9	-3.69	
0	2440.992	-8	-3.28	
10	2440.992	-8	-3.28	
20	2440.993	-7	-2.87	
30	2440.993	-7	-2.87	
40	2440.993	-7	-2.87	
50	2440.992	-8	-3.28	
55	2440.992	-8	-3.28	

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 3.85V	2479.992	-8	-3.23	10
DC 3.47V	2479.993	-7	-2.82	
DC 4.24V	2479.993	-7	-2.82	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.987	-13	-5.24	10
-20	2479.987	-13	-5.24	
-10	2479.988	-12	-4.84	
0	2479.989	-11	-4.44	
10	2479.990	-10	-4.03	
20	2479.991	-9	-3.63	
30	2479.991	-9	-3.63	
40	2479.991	-9	-3.63	
50	2479.992	-8	-3.23	
55	2479.991	-9	-3.63	

Appendix B.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.976	≥0.690	PASS
3DH5	Ant1	Hop	1.126	≥0.868	PASS

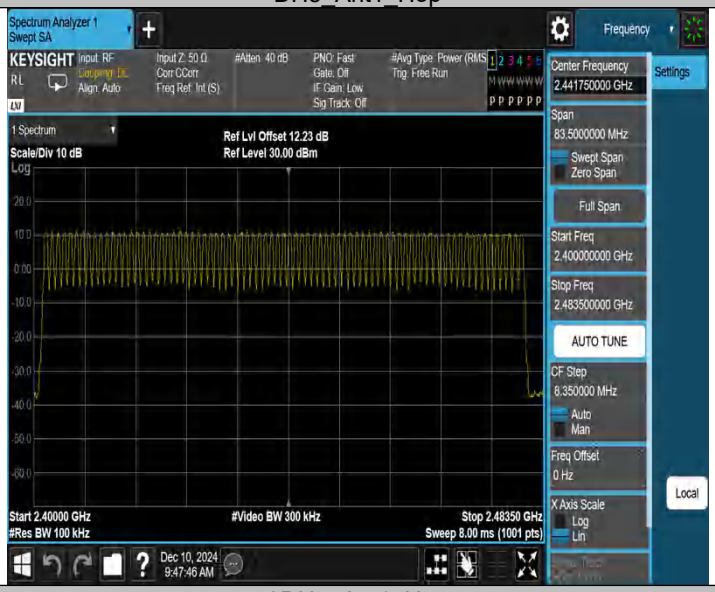
DH5_Ant1_Hop

3DH5_Ant1_Hop

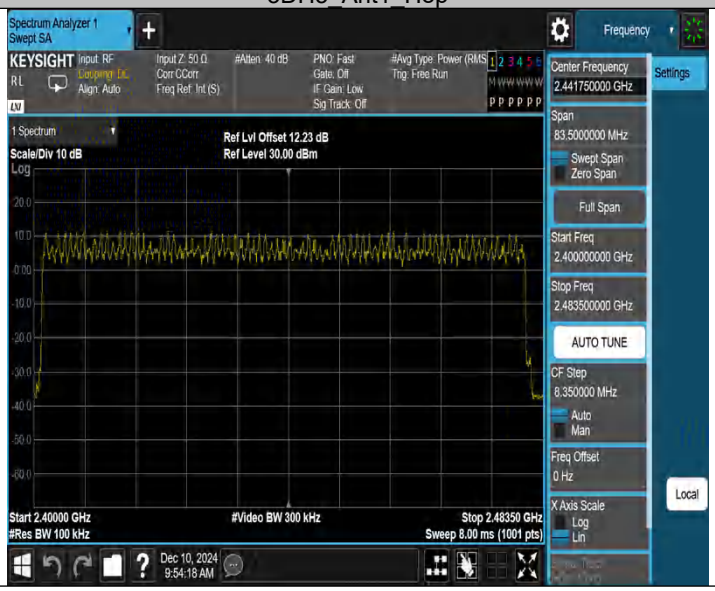
Appendix B.5: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



3DH5_Ant1_Hop



Appendix B.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.377	162	0.061	≤0.4	PASS
DH3	Ant1	Hop	1.633	101	0.165	≤0.4	PASS
DH5	Ant1	Hop	2.882	75	0.216	≤0.4	PASS
3DH1	Ant1	Hop	0.388	158	0.061	≤0.4	PASS
3DH3	Ant1	Hop	1.638	102	0.167	≤0.4	PASS
3DH5	Ant1	Hop	2.888	84	0.243	≤0.4	PASS

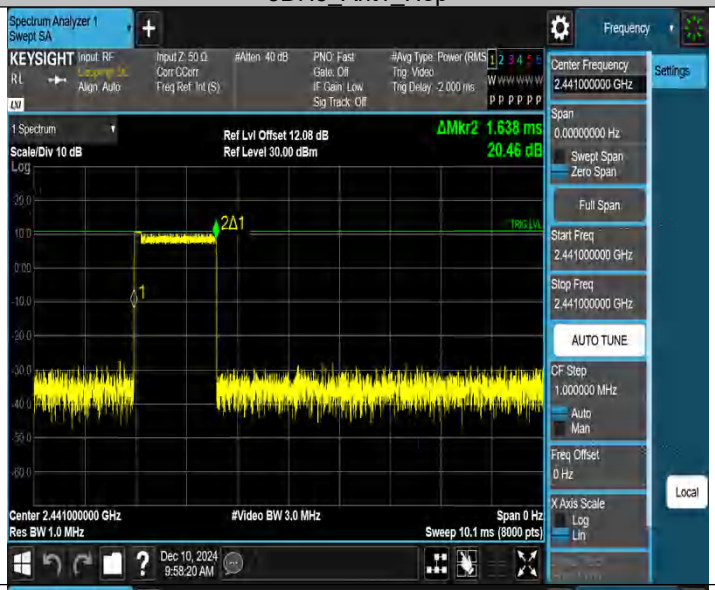
DH1_Ant1_Hop

DH3_Ant1_Hop

DH5_Ant1_Hop

3DH1_Ant1_Hop

3DH3_Ant1_Hop



3DH5_Ant1_Hop


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: 0.000 s
Align: Auto
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 12.08 dB
Ref Level 30.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Dec 10, 2024
9:55:10 AM
Frequency
Center Frequency
2.441000000 GHz
Settings
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

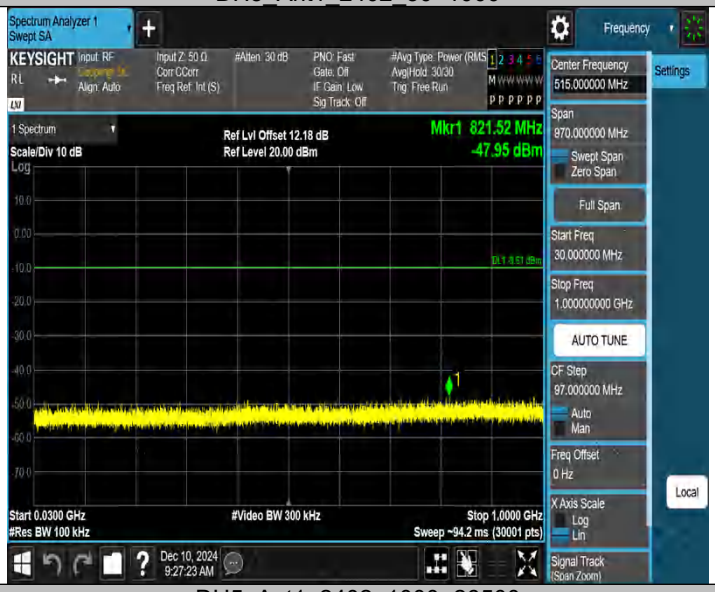
Appendix B.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	10.39	10.39	---	PASS
			30~1000	10.39	-47.96	≤-9.61	PASS
			1000~26500	10.39	-38.47	≤-9.61	PASS
		2441	Reference	10.54	10.54	---	PASS
			30~1000	10.54	-47.82	≤-9.46	PASS
			1000~26500	10.54	-38.87	≤-9.46	PASS
		2480	Reference	10.13	10.13	---	PASS
			30~1000	10.13	-48.02	≤-9.87	PASS
			1000~26500	10.13	-38.37	≤-9.87	PASS
3DH5	Ant1	2402	Reference	10.32	10.32	---	PASS
			30~1000	10.32	-47.95	≤-9.68	PASS
			1000~26500	10.32	-38.11	≤-9.68	PASS
		2441	Reference	10.94	10.94	---	PASS
			30~1000	10.94	-47.85	≤-9.06	PASS
			1000~26500	10.94	-38.54	≤-9.06	PASS
		2480	Reference	5.42	5.42	---	PASS
			30~1000	5.42	-47.56	≤-14.58	PASS
			1000~26500	5.42	-38.27	≤-14.58	PASS

DH5_Ant1_2402_0~Reference

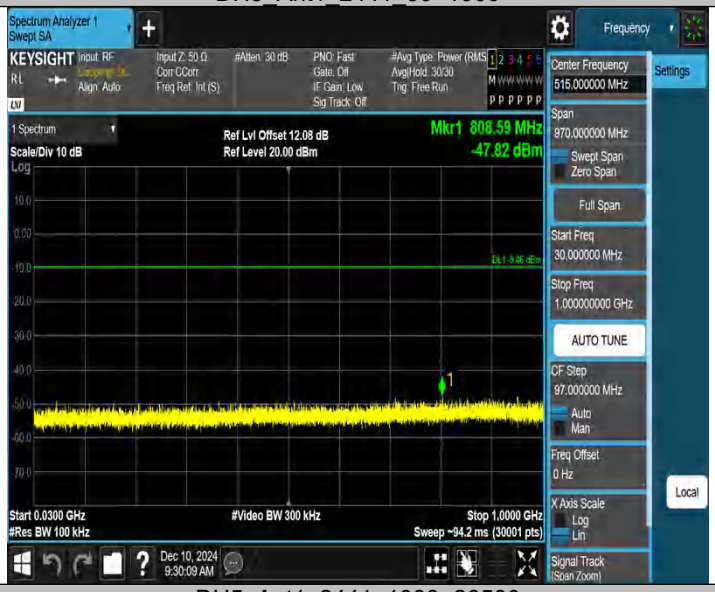
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

DH5_Ant1_2441_0~Reference

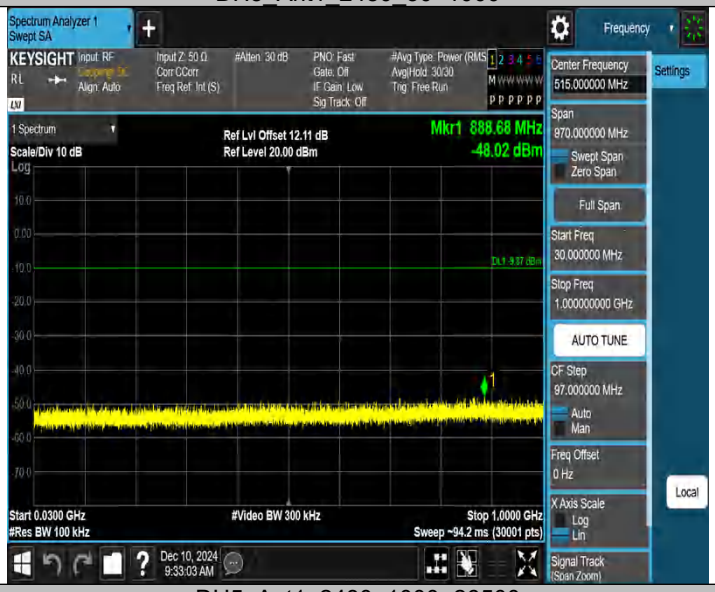
DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

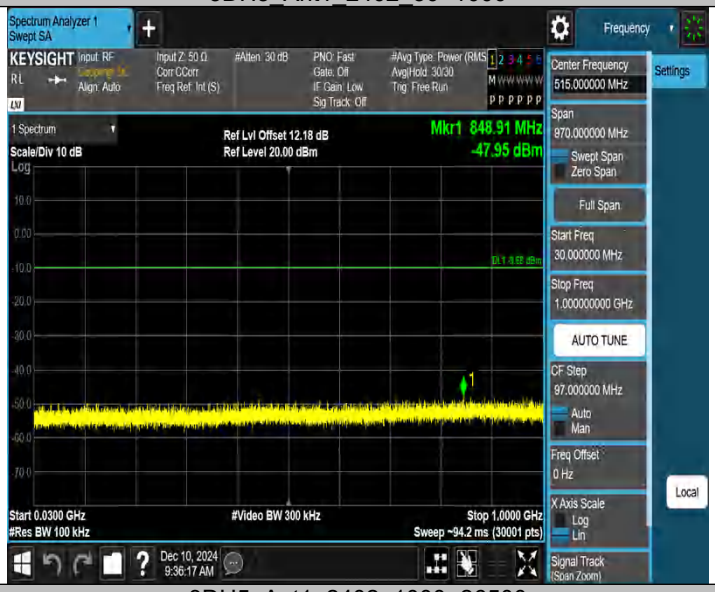
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

3DH5_Ant1_2402_0~Reference

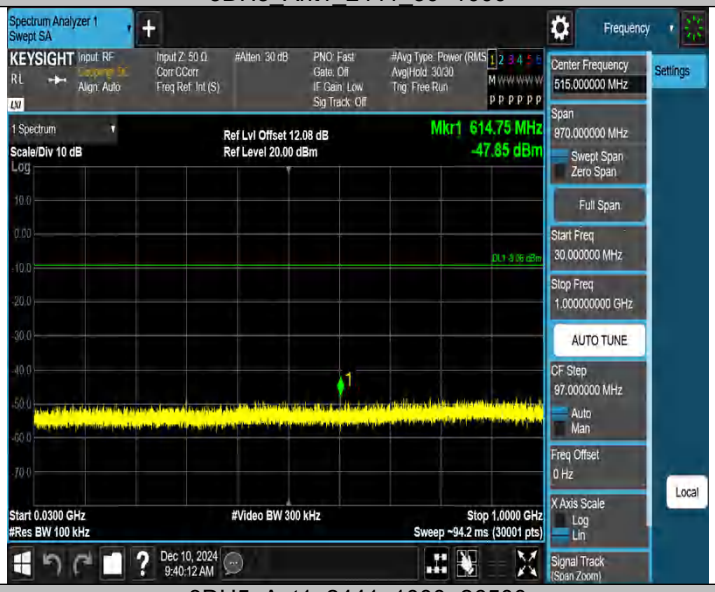
3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

3DH5_Ant1_2441_0~Reference

3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000

3DH5_Ant1_2480_1000~26500

Band edge measurements.

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.14	-48.90	≤-8.86	PASS
		High	2480	10.41	-49.03	≤-9.59	PASS
3DH5	Ant1	Low	2402	11.04	-44.67	≤-8.96	PASS
		High	2480	9.44	-48.95	≤-10.56	PASS
DH5	Ant1	Hopping	2402	10.18	-46.80	≤-9.83	PASS
		Hopping	2480	10.31	-49.13	≤-9.69	PASS
3DH5	Ant1	Hopping	2402	5.33	-48.43	≤-14.67	PASS
		Hopping	2480	5.42	-48.88	≤-14.58	PASS

DH5_Ant1_Low_2402

DH5_Ant1_High_2480

3DH5_Ant1_Low_2402

3DH5_Ant1_High_2480

DH5_Ant1_Hopping_2402

DH5_Ant1_Hopping_2480

3DH5_Ant1_Hopping_2402

3DH5_Ant1_Hopping_2480

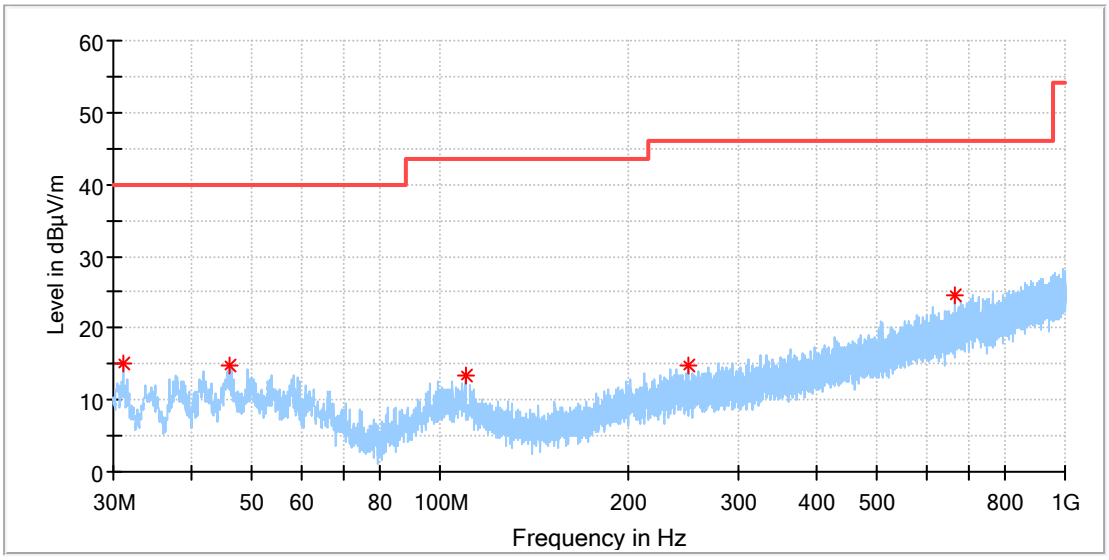
Appendix B.8: Test Results of Radiated Spurious Emissions

Note: 1. 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. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

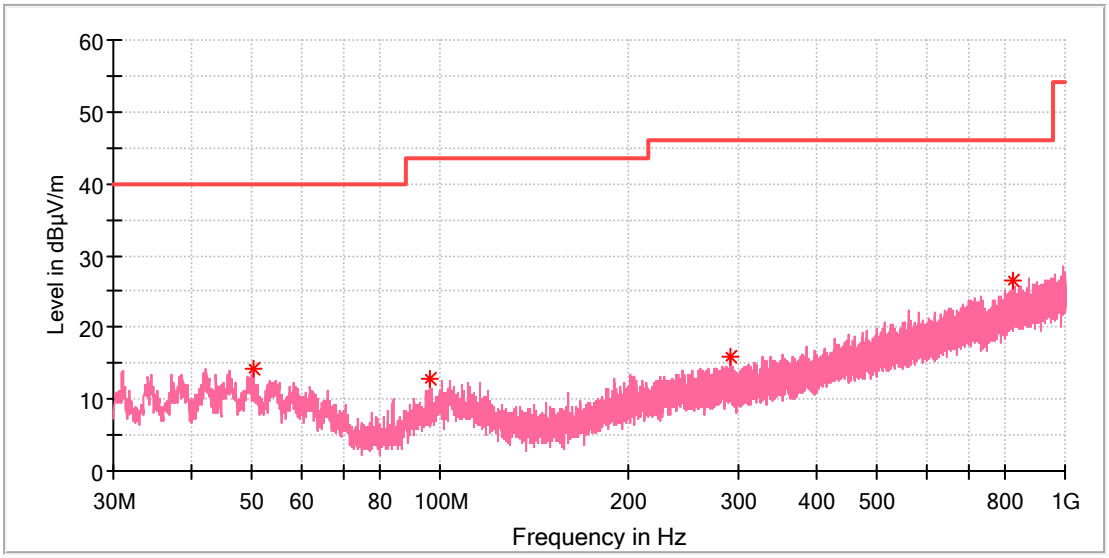


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.119231	14.97	40.00	25.03	100.0	H	0.0	-22.9
46.005000	14.76	40.00	25.24	100.0	H	181.0	-18.8
109.651923	13.50	43.50	30.00	100.0	H	117.0	-19.2
249.145385	14.84	46.00	31.16	100.0	H	270.0	-17.4
666.282692	24.56	46.00	21.44	100.0	H	197.0	-8.6

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

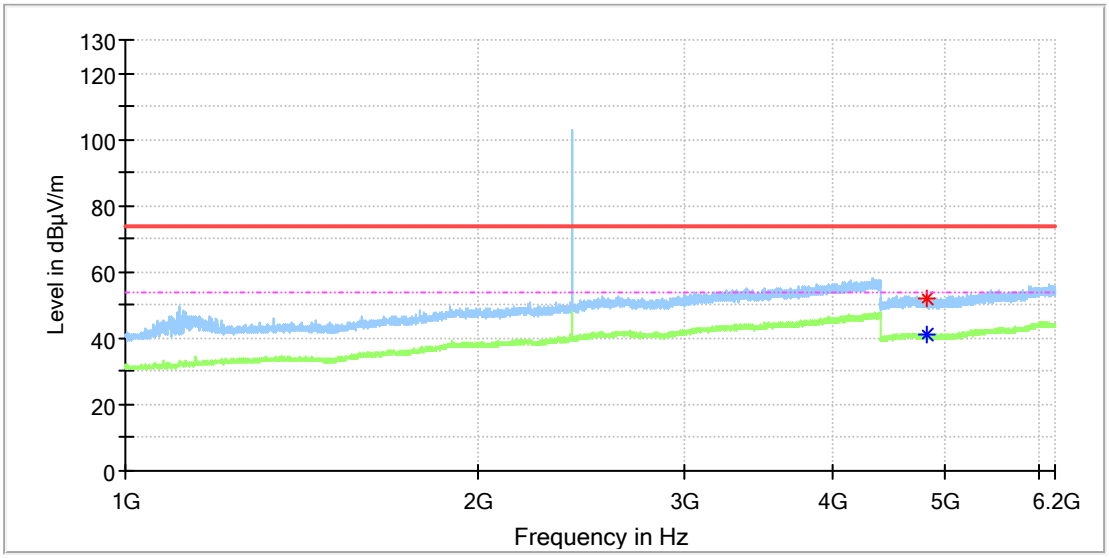
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.332692	14.29	40.00	25.71	100.0	V	232.0	-18.4
96.370385	12.97	43.50	30.53	100.0	V	263.0	-19.6
291.638846	16.04	46.00	29.96	100.0	V	223.0	-16.5
825.026923	26.64	46.00	19.36	100.0	V	52.0	-5.7

1GHz - 18GHz

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

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

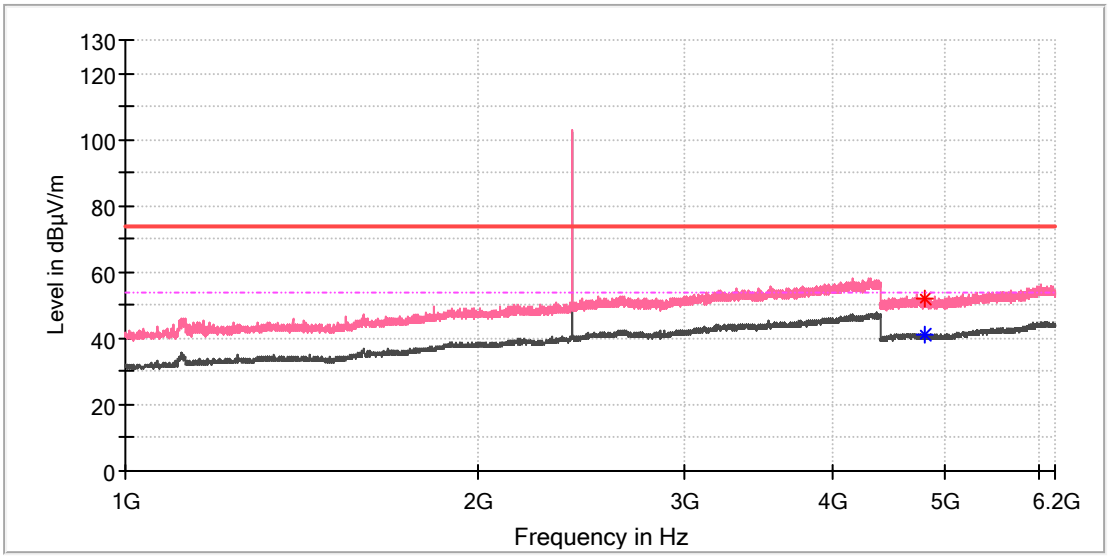


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4815.500000	51.97	---	74.00	22.03	150.0	H	190.0	13.3
4818.000000	---	41.26	54.00	12.74	150.0	H	293.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

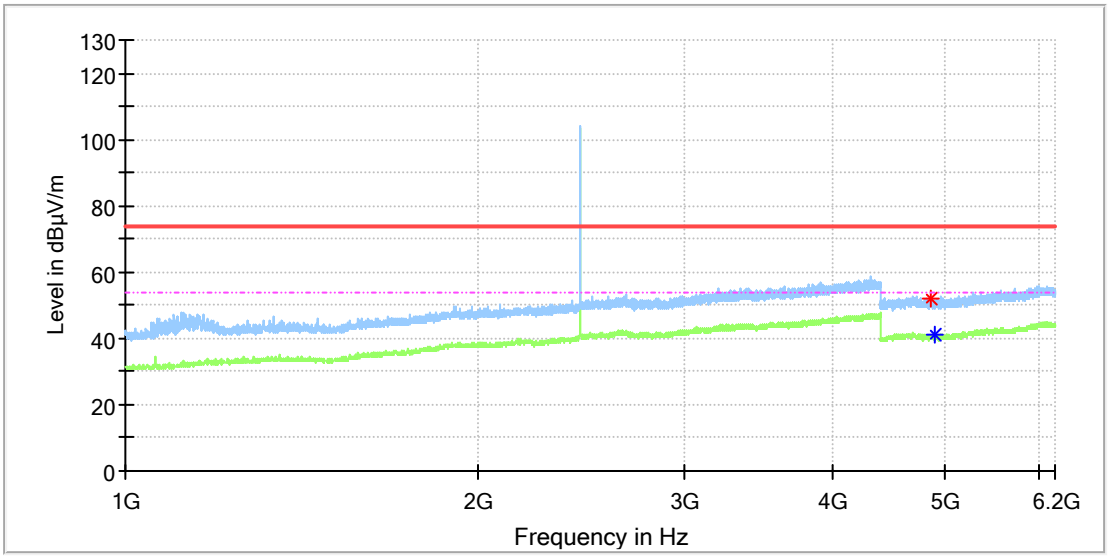


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.000000	52.09	---	74.00	21.91	150.0	V	205.0	13.3
4810.000000	---	40.90	54.00	13.10	150.0	V	192.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

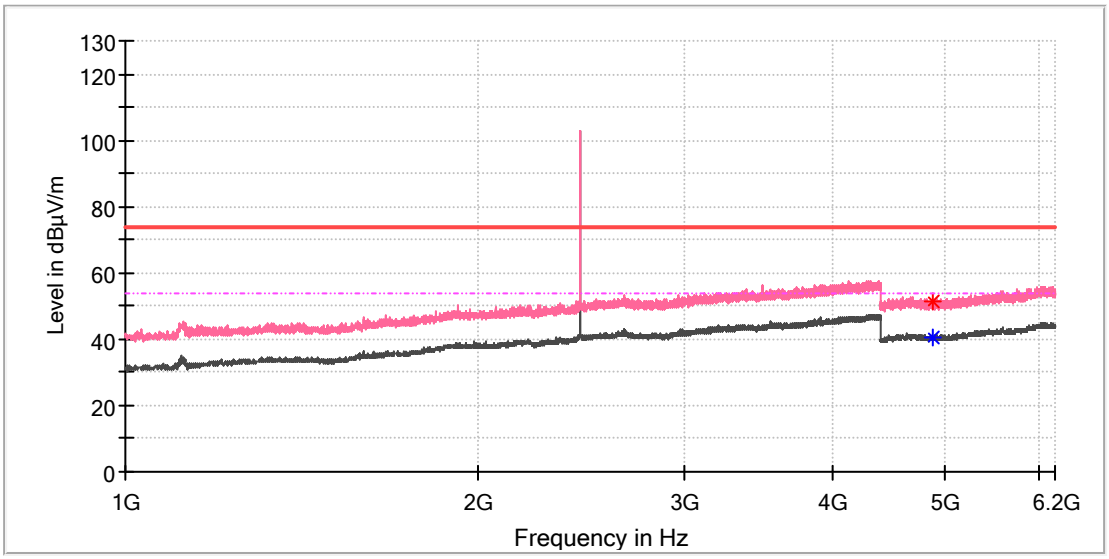


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4861.500000	51.87	---	74.00	22.13	150.0	H	157.0	13.3
4898.000000	---	40.83	54.00	13.17	150.0	H	213.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

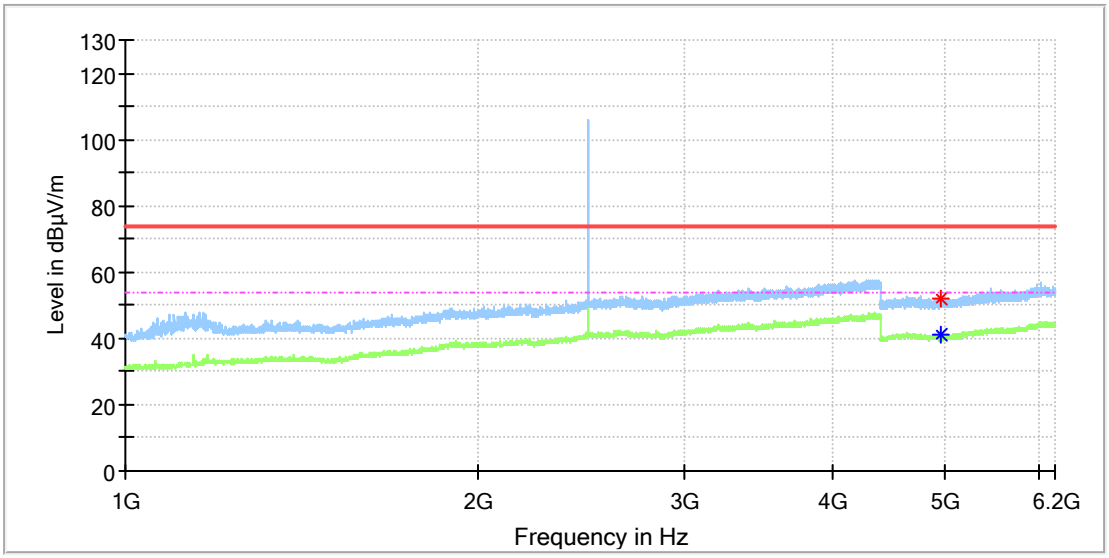


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	51.39	---	74.00	22.61	150.0	V	242.0	13.3
4881.500000	---	40.71	54.00	13.29	150.0	V	242.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

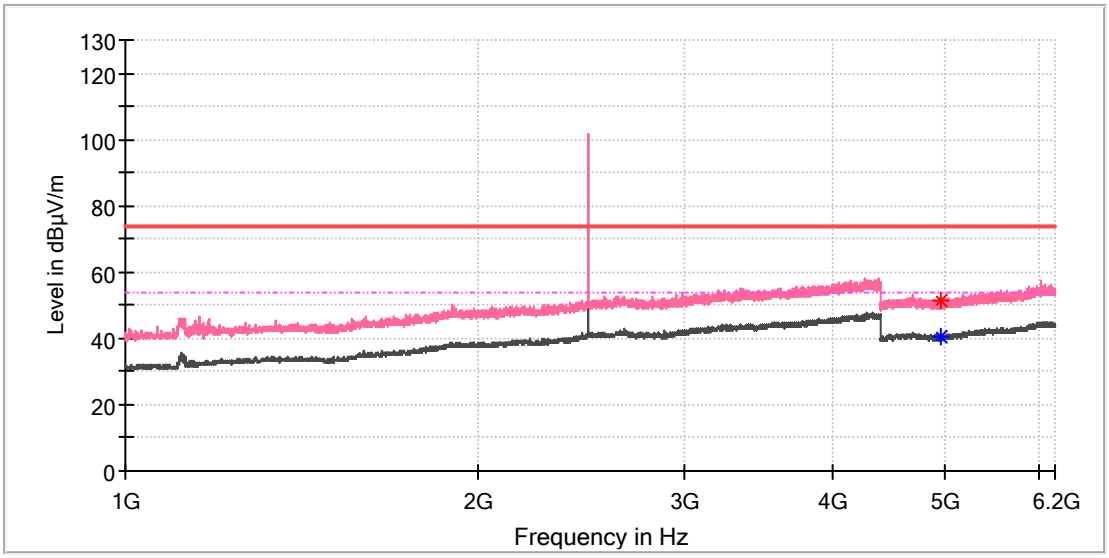


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.500000	51.76	---	74.00	22.24	150.0	H	108.0	13.3
4957.000000	---	40.90	54.00	13.10	150.0	H	297.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

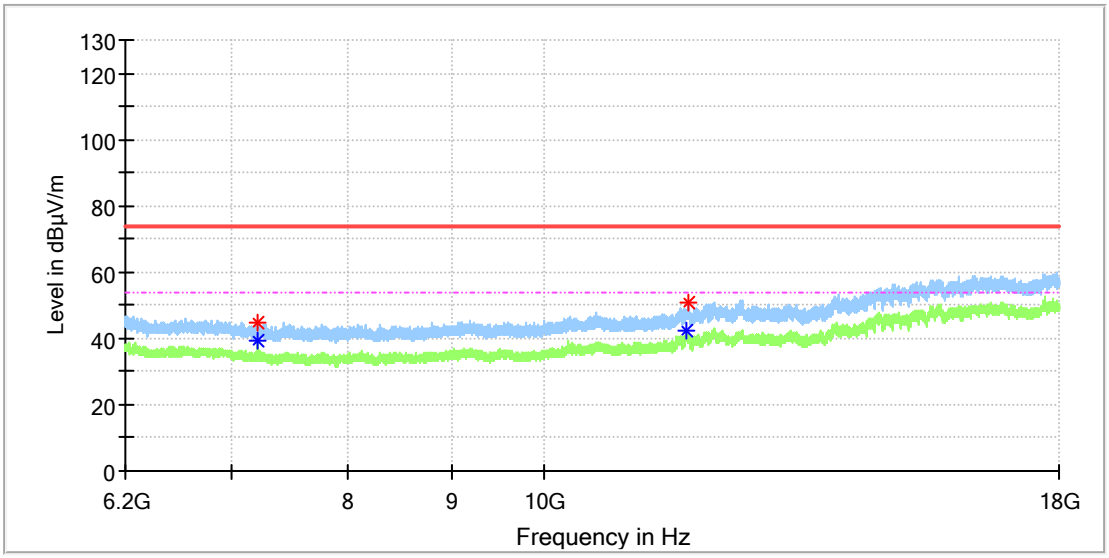


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.000000	51.47	---	74.00	22.53	150.0	V	85.0	13.3
4948.500000	---	40.69	54.00	13.31	150.0	V	0.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

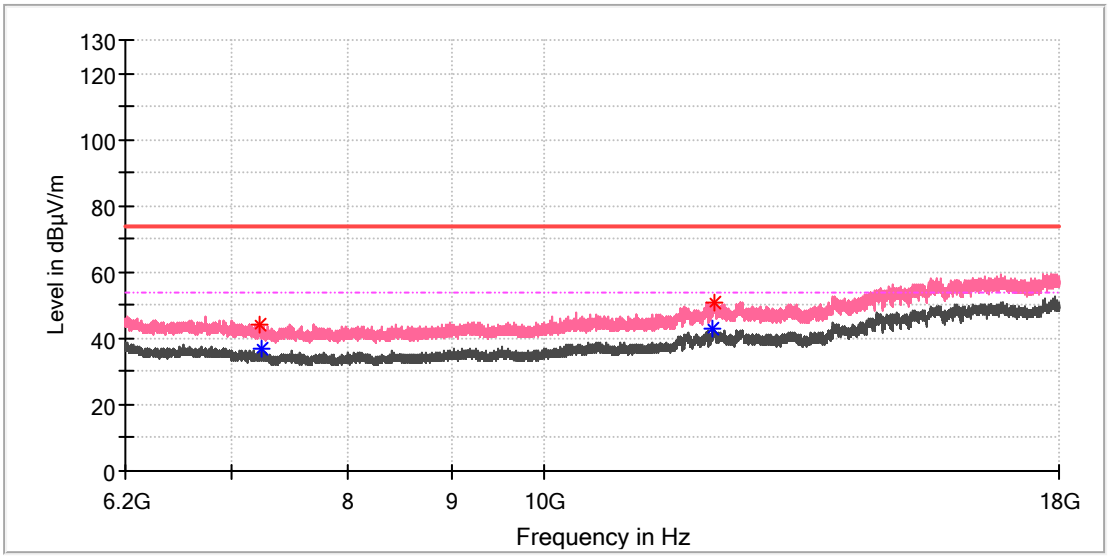


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	39.23	54.00	14.77	150.0	H	114.0	8.8
7206.441667	44.49	---	74.00	29.51	150.0	H	243.0	8.8
11761.241667	---	42.07	54.00	11.93	150.0	H	266.0	15.4
11776.975000	50.52	---	74.00	23.48	150.0	H	289.0	15.2

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

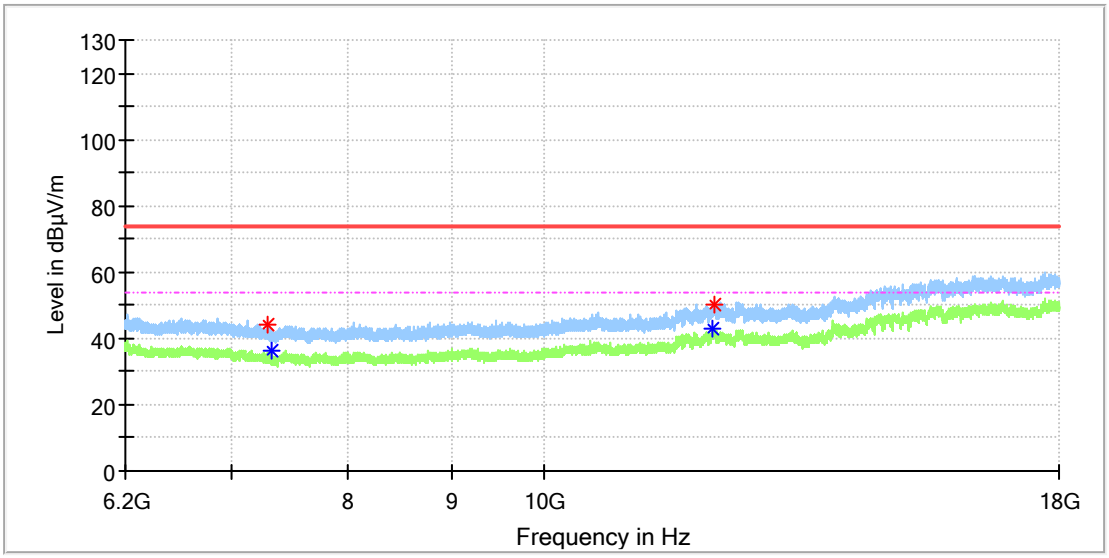


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7233.975000	44.36	---	74.00	29.64	150.0	V	118.0	8.6
7236.433333	---	36.64	54.00	17.36	150.0	V	96.0	8.6
12127.533333	---	42.93	54.00	11.07	150.0	V	63.0	16.1
12141.300000	50.80	---	74.00	23.20	150.0	V	74.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

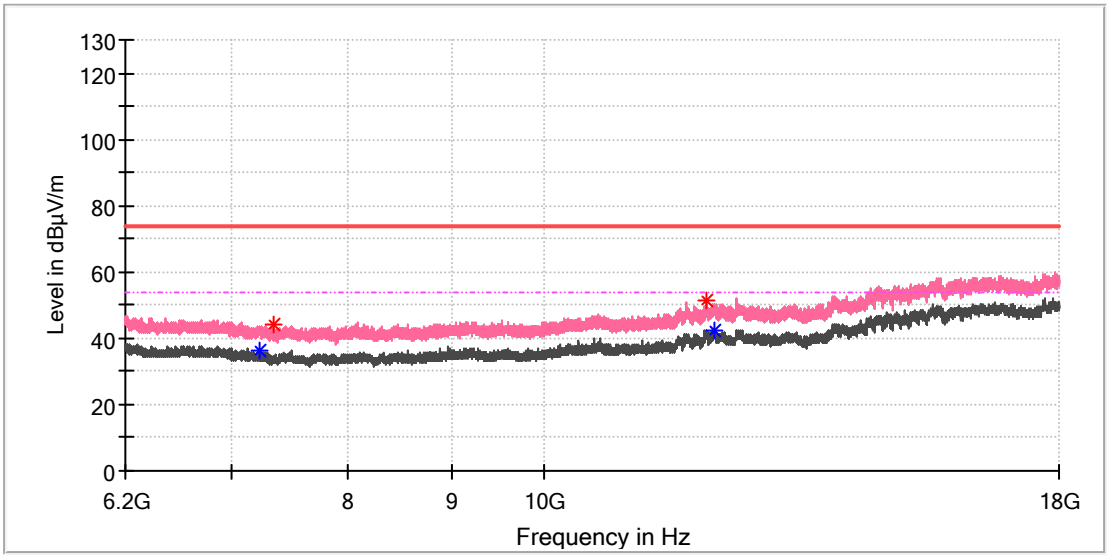


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7289.533333	44.25	---	74.00	29.75	150.0	H	150.0	8.4
7322.475000	---	36.02	54.00	17.98	150.0	H	118.0	8.2
12130.975000	---	43.18	54.00	10.82	150.0	H	63.0	16.2
12142.775000	50.39	---	74.00	23.61	150.0	H	208.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

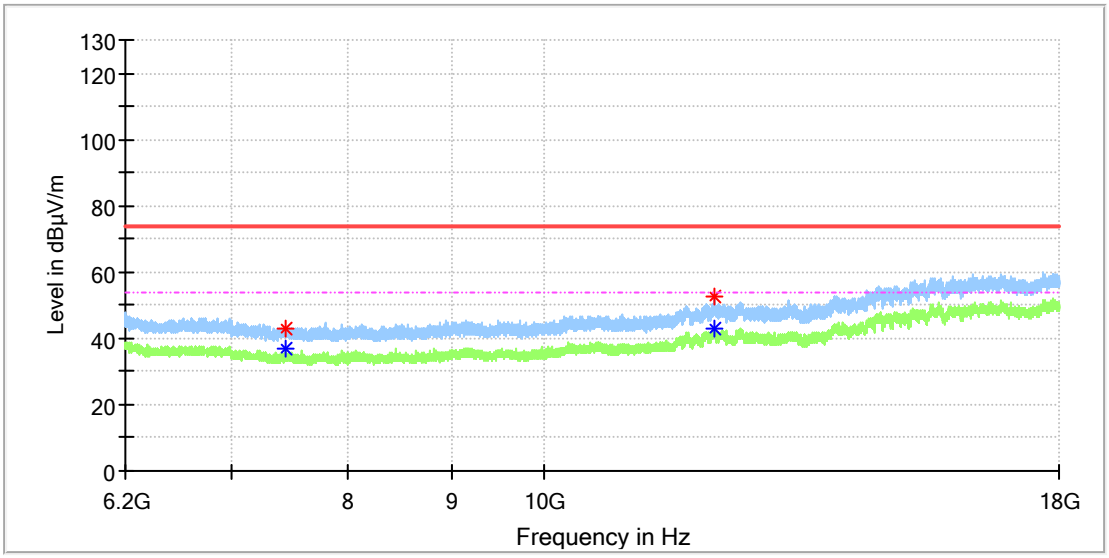


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.991667	---	36.47	54.00	17.53	150.0	V	248.0	8.6
7348.533333	43.84	---	74.00	30.16	150.0	V	189.0	8.1
12045.425000	51.18	---	74.00	22.82	150.0	V	236.0	16.3
12142.283333	---	42.59	54.00	11.41	150.0	V	292.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

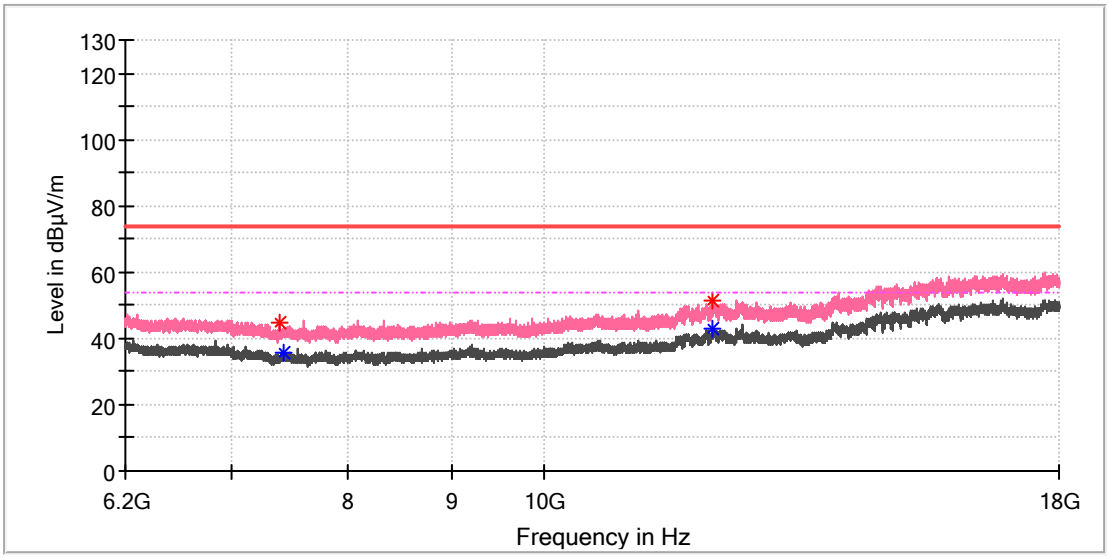


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	43.09	---	74.00	30.91	150.0	H	151.0	8.4
7439.983333	---	36.75	54.00	17.25	150.0	H	151.0	8.4
12147.691667	52.87	---	74.00	21.13	150.0	H	292.0	16.7
12154.575000	---	42.76	54.00	11.24	150.0	H	0.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



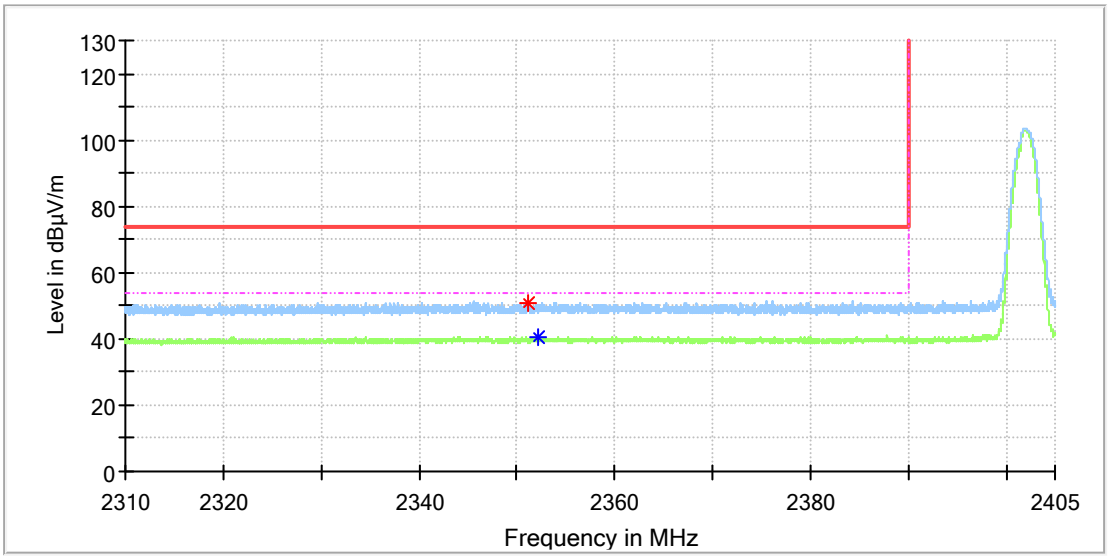
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7401.633333	44.75	---	74.00	29.25	150.0	V	25.0	8.3
7425.233333	---	35.95	54.00	18.05	150.0	V	0.0	8.4
12123.108333	---	43.06	54.00	10.94	150.0	V	216.0	16.0
12128.516667	51.15	---	74.00	22.85	150.0	V	111.0	16.2

Appendix B.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

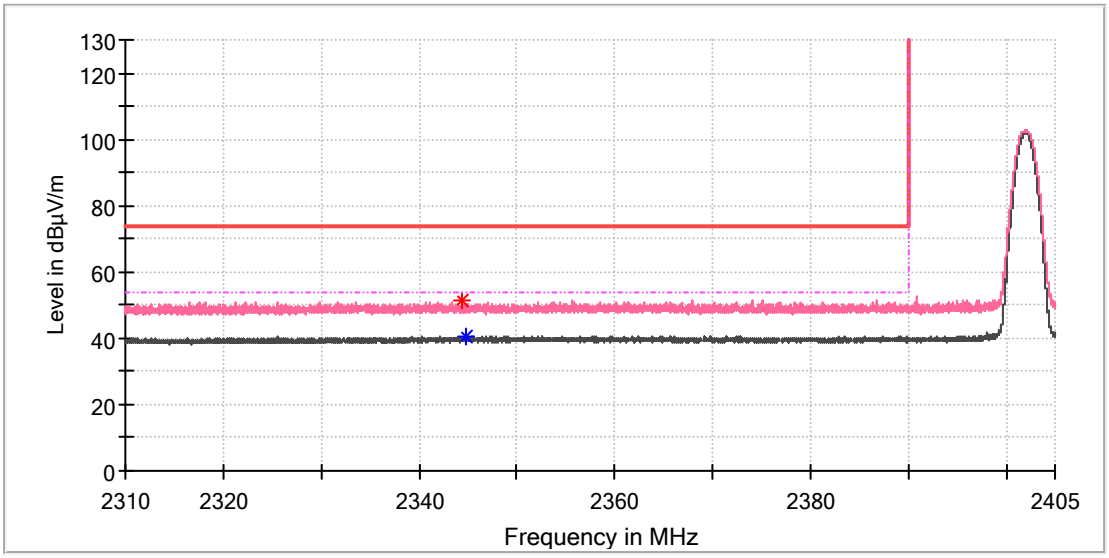


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.157353	51.05	---	74.00	22.95	150.0	H	105.0	8.5
2352.093382	---	40.44	54.00	13.56	150.0	H	126.0	8.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

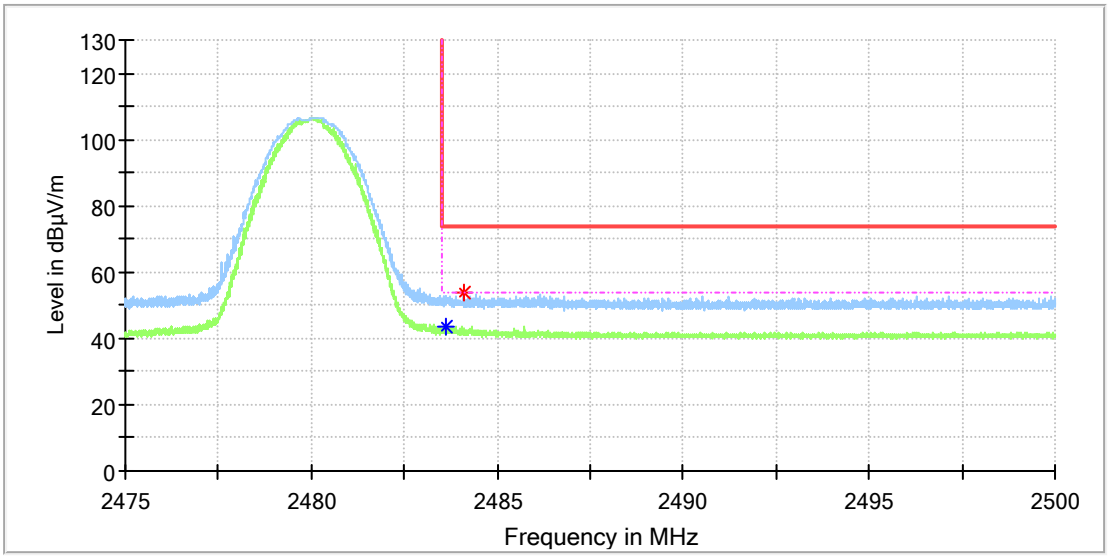


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2344.423530	51.50	---	74.00	22.50	150.0	V	320.0	8.4
2344.898530	---	40.62	54.00	13.38	150.0	V	251.0	8.4

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

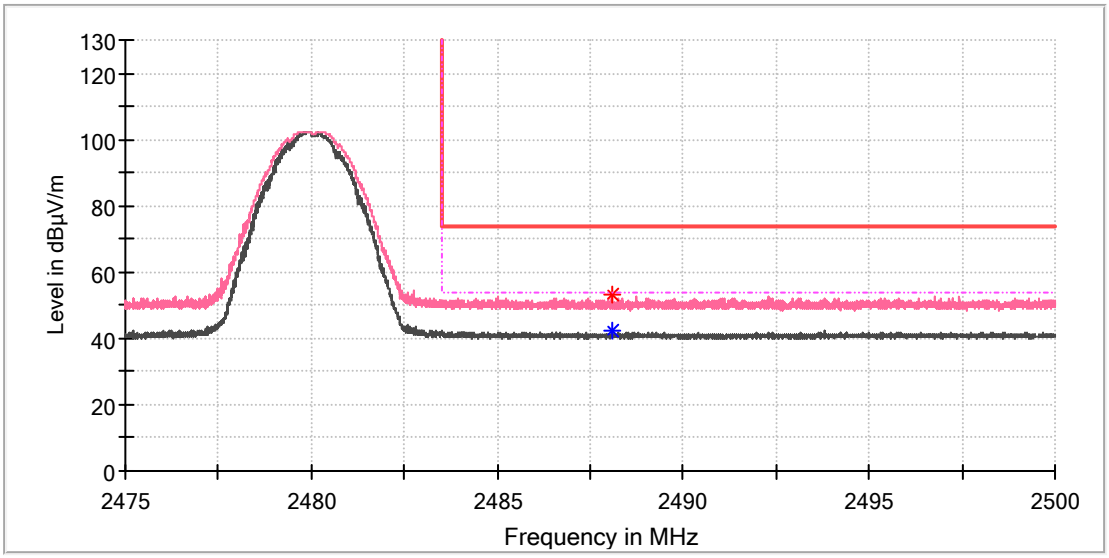


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.632353	---	43.70	54.00	10.30	150.0	H	289.0	9.0
2484.080882	53.70	---	74.00	20.30	150.0	H	318.0	9.0

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:58%
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)
2488.066177	53.33	---	74.00	20.67	150.0	V	183.0	9.0
2488.069853	---	42.15	54.00	11.85	150.0	V	0.0	9.0

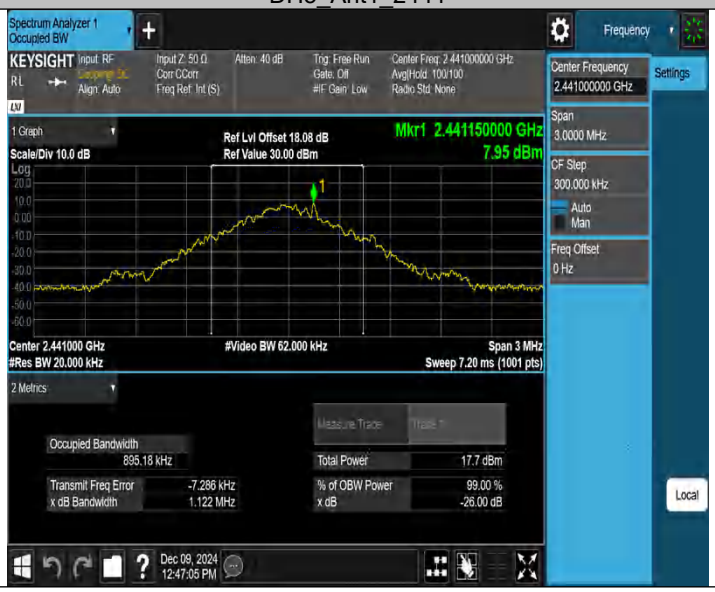
Appendix C: Test Results of Classical Bluetooth_Right Earbud

Appendix C.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86820	2401.5540	2402.4222	---	---
		2441	0.89518	2440.5451	2441.4403	---	---
		2480	0.85544	2479.5514	2480.4068	---	---
3DH5	Ant1	2402	1.1796	2401.3949	2402.5745	---	---
		2441	1.1615	2440.4105	2441.5720	---	---
		2480	1.1994	2479.3861	2480.5855	---	---

DH5_Ant1_2402

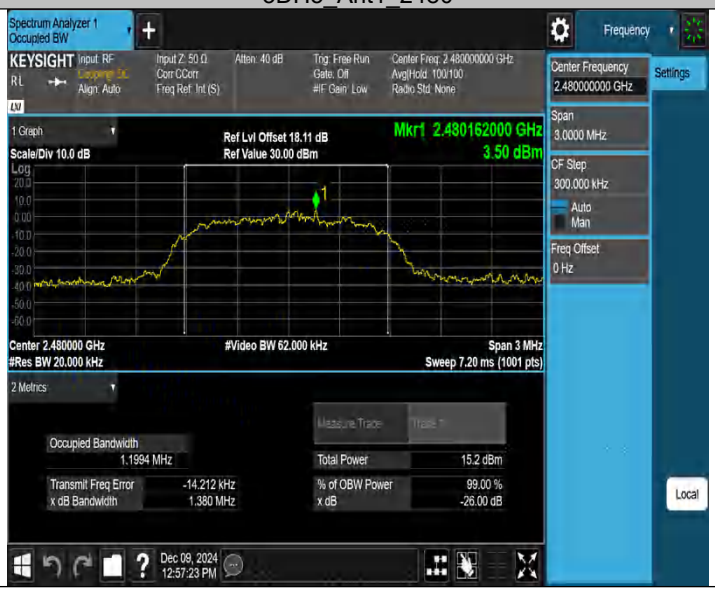
DH5_Ant1_2441



DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Appendix C.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.014	2401.472	2402.486	---	---
		2441	1.014	2440.478	2441.492	---	---
		2480	0.981	2479.481	2480.462	---	---
3DH5	Ant1	2402	1.308	2401.334	2402.642	---	---
		2441	1.239	2440.358	2441.597	---	---
		2480	1.191	2479.403	2480.594	---	---

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

3DH5_Ant1_2402

3DH5_Ant1_2441

3DH5_Ant1_2480


Appendix C.3: 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 3.85V	2401.992	-8	-3.33	10
DC 3.47V	2401.992	-8	-3.33	
DC 4.24V	2401.993	-7	-2.91	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.990	-10	-4.16	10
-20	2401.989	-11	-4.58	
-10	2401.991	-9	-3.75	
0	2401.991	-9	-3.75	
10	2401.992	-8	-3.33	
20	2401.993	-7	-2.91	
30	2401.991	-9	-3.75	
40	2401.991	-9	-3.75	
50	2401.993	-7	-2.91	
55	2401.991	-9	-3.75	

Test Channel (MHz)	2441

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
DC 3.85V	2440.994	-6	-2.46	10
DC 3.47V	2440.993	-7	-2.87	
DC 4.24V	2440.994	-6	-2.46	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.992	-8	-3.28	10
-20	2440.994	-6	-2.46	
-10	2440.993	-7	-2.87	
0	2440.993	-7	-2.87	
10	2440.994	-6	-2.46	
20	2440.992	-8	-3.28	
30	2440.994	-6	-2.46	
40	2440.993	-7	-2.87	
50	2440.992	-8	-3.28	
55	2440.991	-9	-3.69	

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 3.85V	2479.995	-5	-2.02	10
DC 3.47V	2479.994	-6	-2.42	
DC 4.24V	2479.996	-4	-1.61	

Test result of frequency tolerance of temperature variation

Temperature (℃)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.989	-11	-4.44	10
-20	2479.990	-10	-4.03	
-10	2479.991	-9	-3.63	
0	2479.990	-10	-4.03	
10	2479.992	-8	-3.23	
20	2479.993	-7	-2.82	
30	2479.992	-8	-3.23	
40	2479.993	-7	-2.82	
50	2479.991	-9	-3.63	
55	2479.992	-8	-3.23	

Appendix C.4: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.946	≥0.676	PASS
3DH5	Ant1	Hop	1.180	≥0.872	PASS

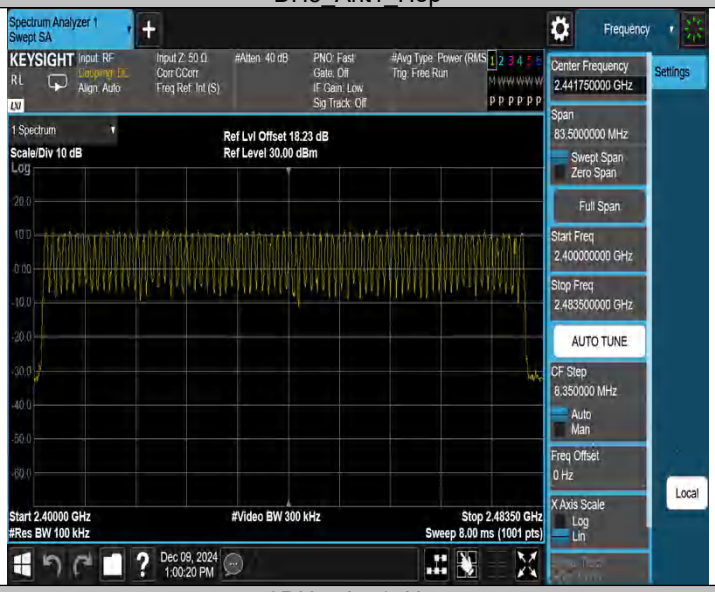
DH5_Ant1_Hop

3DH5_Ant1_Hop

Appendix C.5: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

DH5_Ant1_Hop



3DH5_Ant1_Hop

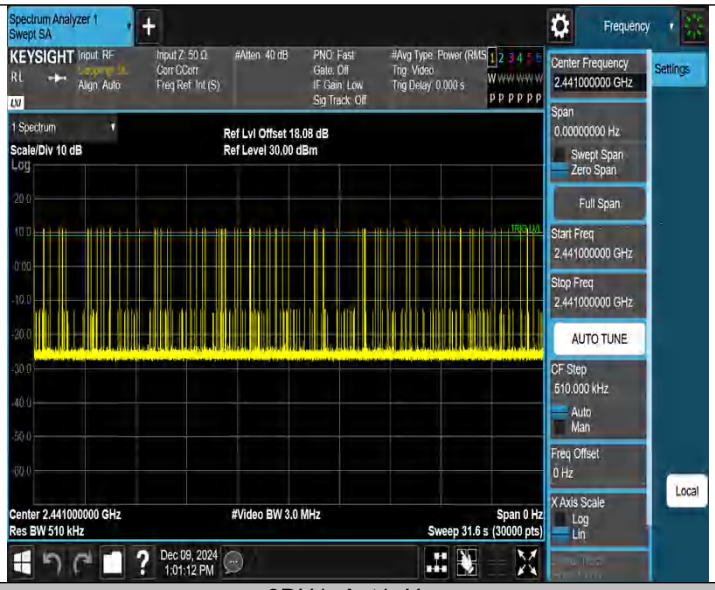
Appendix C.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.377	163	0.061	≤0.4	PASS
DH3	Ant1	Hop	1.633	116	0.189	≤0.4	PASS
DH5	Ant1	Hop	2.880	80	0.23	≤0.4	PASS
3DH1	Ant1	Hop	0.386	159	0.061	≤0.4	PASS
3DH3	Ant1	Hop	1.637	103	0.169	≤0.4	PASS
3DH5	Ant1	Hop	2.888	77	0.222	≤0.4	PASS

DH1_Ant1_Hop

DH3_Ant1_Hop

DH5_Ant1_Hop



3DH1_Ant1_Hop

3DH3_Ant1_Hop


3DH5_Ant1_Hop



Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Trig: Video
Trig Delay: 0.000 s
Align: Auto
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 18.08 dB
Ref Level 30.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 31.6 s (30000 pts)
Dec 09, 2024
1:06:20 PM
Frequency
Center Frequency
2.441000000 GHz
Settings
Span
0.00000000 Hz
Swept Span
Zero Span
Full Span
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
AUTO TUNE
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Local

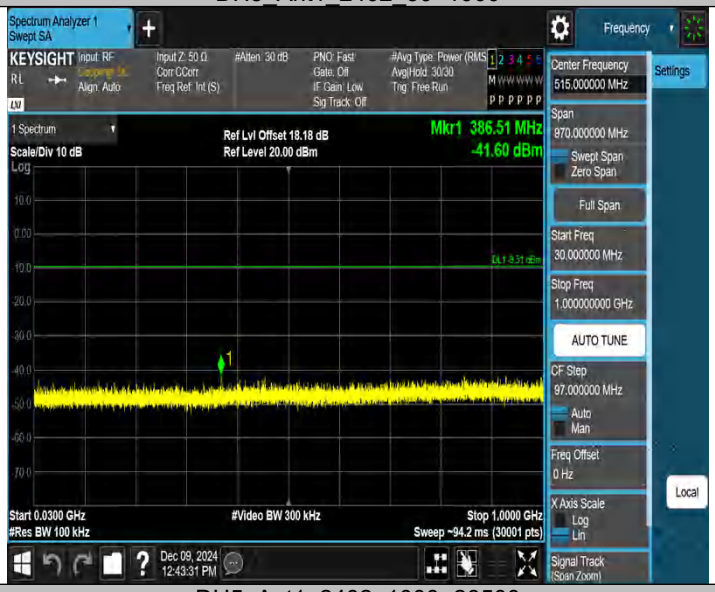
Appendix C.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	10.49	10.49	---	PASS
			30~1000	10.49	-41.6	≤-9.51	PASS
			1000~26500	10.49	-32.6	≤-9.51	PASS
		2441	Reference	10.69	10.69	---	PASS
			30~1000	10.69	-42.01	≤-9.31	PASS
			1000~26500	10.69	-32.72	≤-9.31	PASS
		2480	Reference	10.38	10.38	---	PASS
			30~1000	10.38	-41.49	≤-9.62	PASS
			1000~26500	10.38	-32.41	≤-9.62	PASS
3DH5	Ant1	2402	Reference	6.52	6.52	---	PASS
			30~1000	6.52	-42.3	≤-13.48	PASS
			1000~26500	6.52	-31.62	≤-13.48	PASS
		2441	Reference	5.66	5.66	---	PASS
			30~1000	5.66	-42.18	≤-14.34	PASS
			1000~26500	5.66	-32.32	≤-14.34	PASS
		2480	Reference	9.67	9.67	---	PASS
			30~1000	9.67	-41.6	≤-10.33	PASS
			1000~26500	9.67	-32.17	≤-10.33	PASS

DH5_Ant1_2402_0~Reference

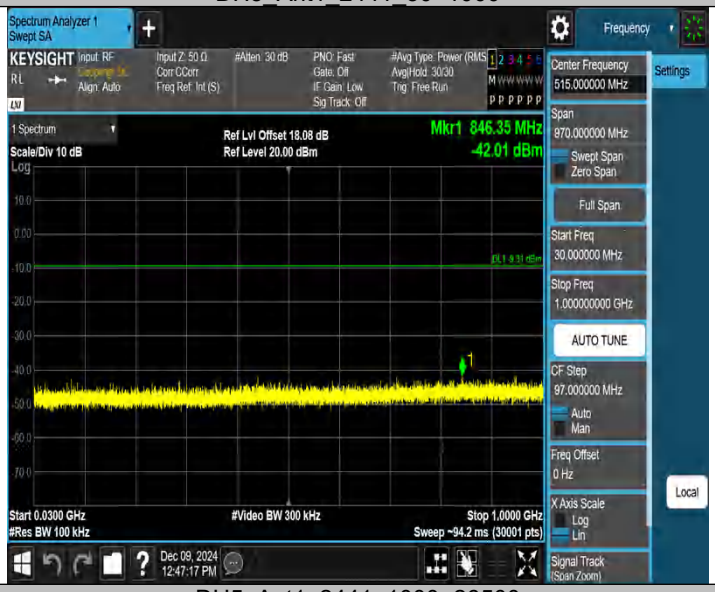
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

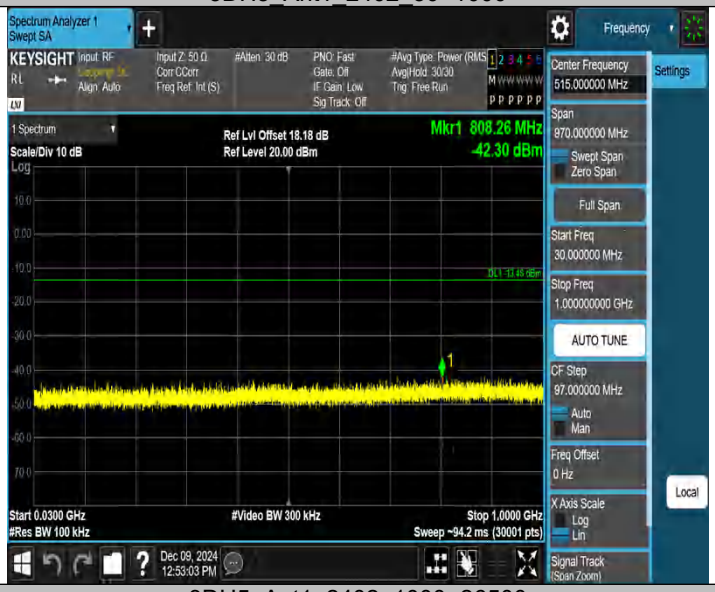
DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000

DH5_Ant1_2480_1000~26500

3DH5_Ant1_2402_0~Reference

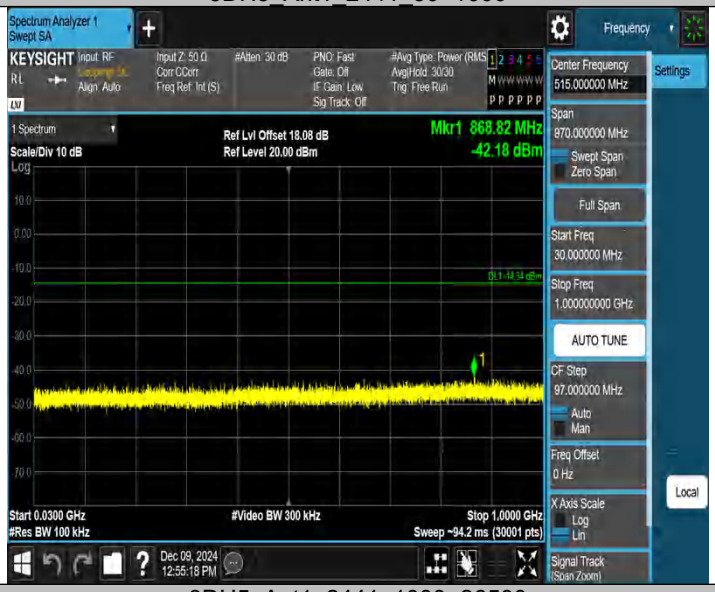
3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

3DH5_Ant1_2441_0~Reference

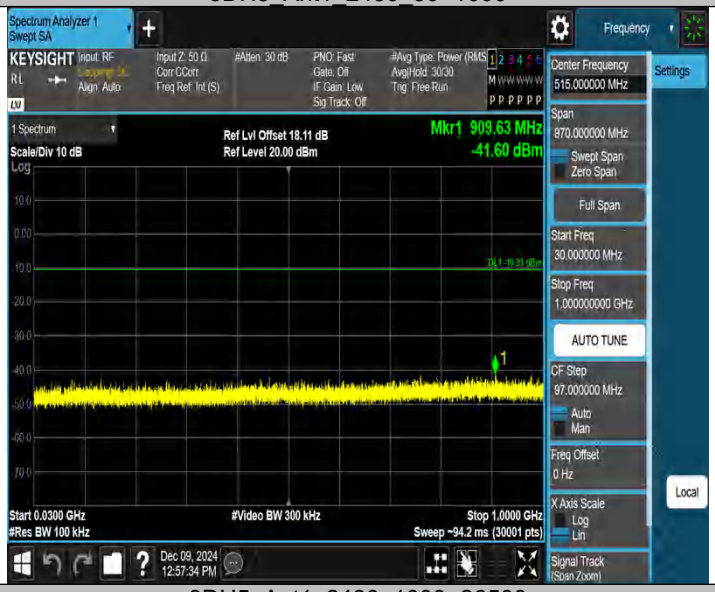
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

3DH5_Ant1_2480_0~Reference

3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

Band edge measurements.

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.24	-41.75	≤-8.76	PASS
		High	2480	10.81	-43.58	≤-9.19	PASS
3DH5	Ant1	Low	2402	11.29	-41.01	≤-8.71	PASS
		High	2480	9.80	-43.51	≤-10.20	PASS
DH5	Ant1	Hopping	2402	9.89	-44.44	≤-10.11	PASS
		Hopping	2480	9.53	-44.06	≤-10.47	PASS
3DH5	Ant1	Hopping	2402	9.74	-43.01	≤-10.26	PASS
		Hopping	2480	8.21	-44.17	≤-11.79	PASS

DH5_Ant1_Low_2402

DH5_Ant1_High_2480

3DH5_Ant1_Low_2402

3DH5_Ant1_High_2480

DH5_Ant1_Hopping_2402

DH5_Ant1_Hopping_2480

3DH5_Ant1_Hopping_2402

3DH5_Ant1_Hopping_2480

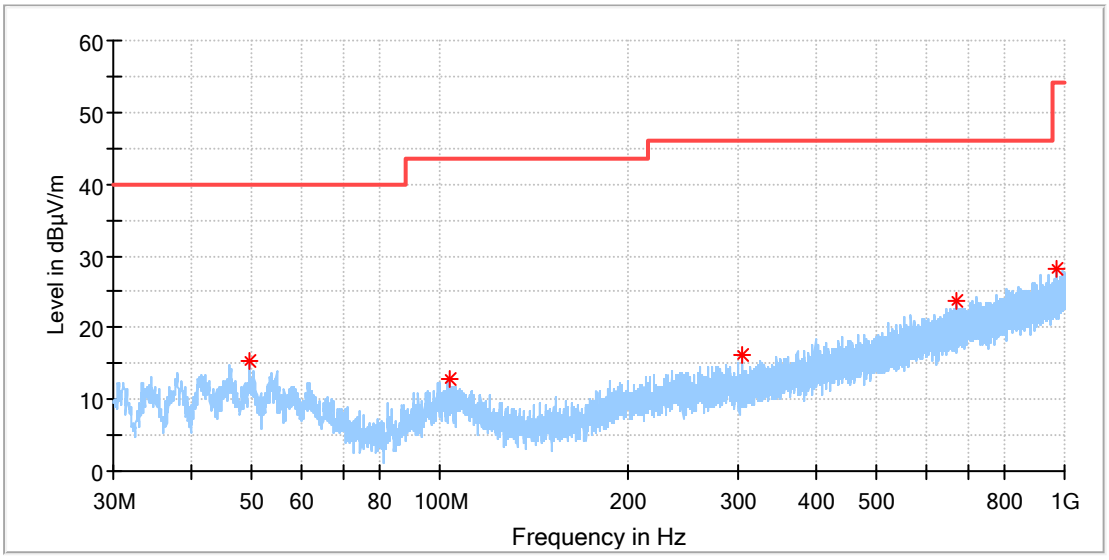
Appendix C.8: Test Results of Radiated Spurious Emissions

Note: 1. 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. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

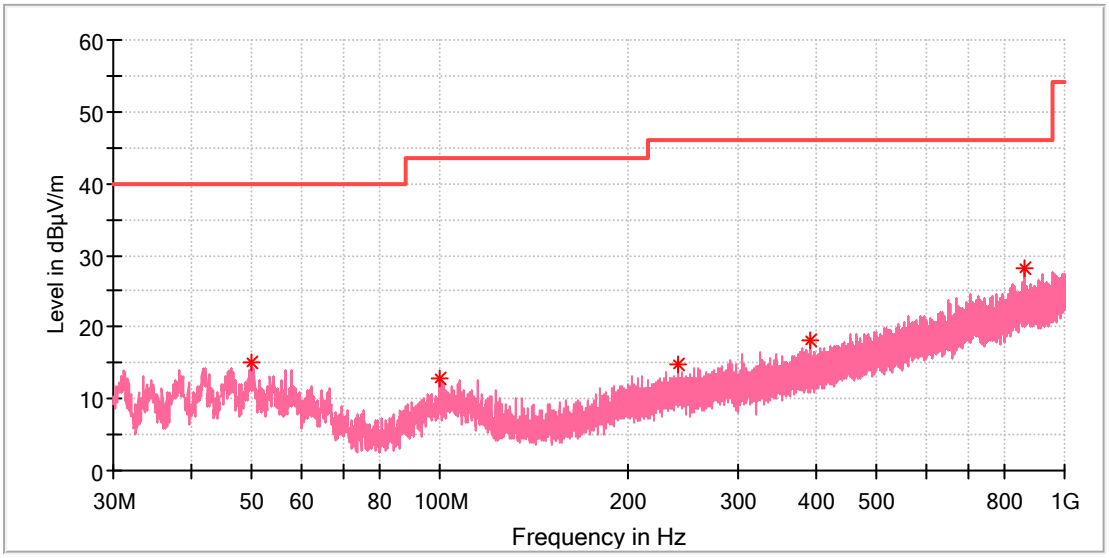


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.623846	15.29	40.00	24.71	100.0	H	83.0	-18.4
103.943846	12.81	43.50	30.69	100.0	H	319.0	-18.9
305.330769	16.15	46.00	29.85	100.0	H	5.0	-16.1
670.311923	23.75	46.00	22.25	100.0	H	326.0	-8.5
973.996539	28.19	54.00	25.81	100.0	H	136.0	-3.9

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



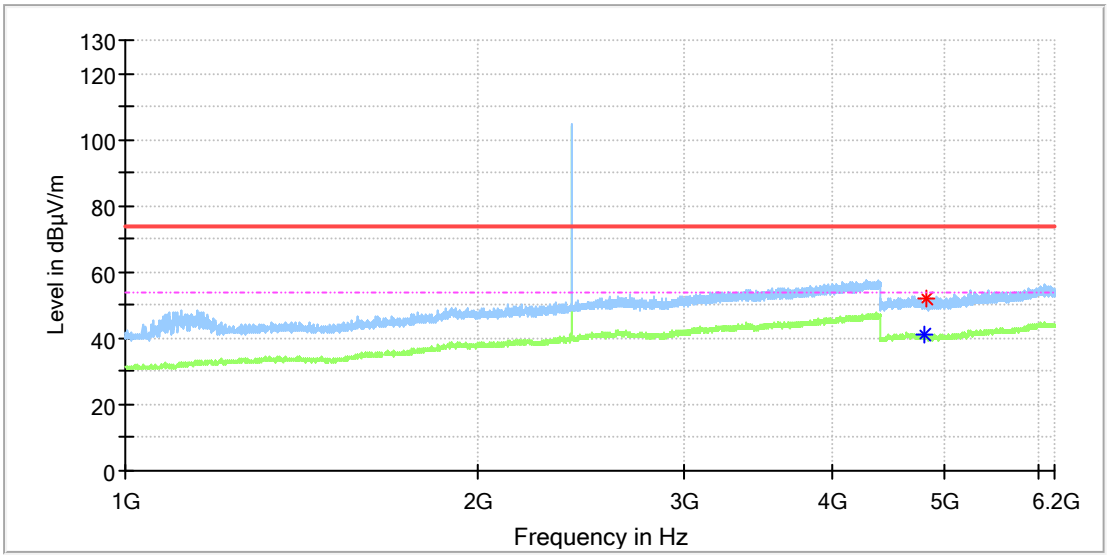
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	15.15	40.00	24.85	100.0	V	209.0	-18.4
100.175769	12.81	43.50	30.69	100.0	V	72.0	-19.1
241.012308	14.73	46.00	31.27	100.0	V	344.0	-17.7
390.541539	18.22	46.00	27.78	100.0	V	200.0	-14.0
862.110769	28.17	46.00	17.83	100.0	V	31.0	-5.2

1GHz - 18GHz
Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

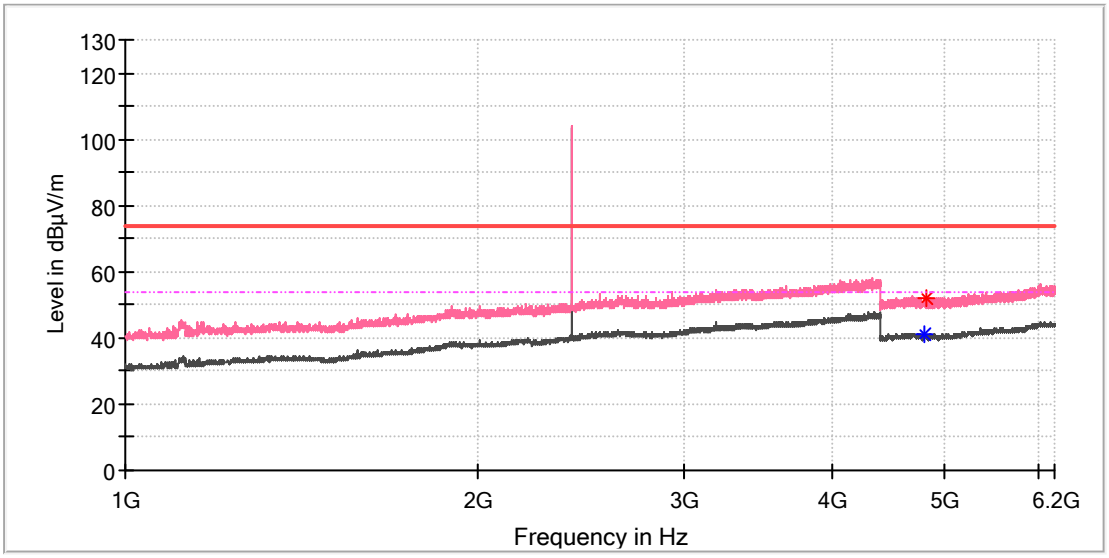


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	40.91	54.00	13.09	150.0	H	10.0	13.3
4828.500000	52.03	---	74.00	21.97	150.0	H	97.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

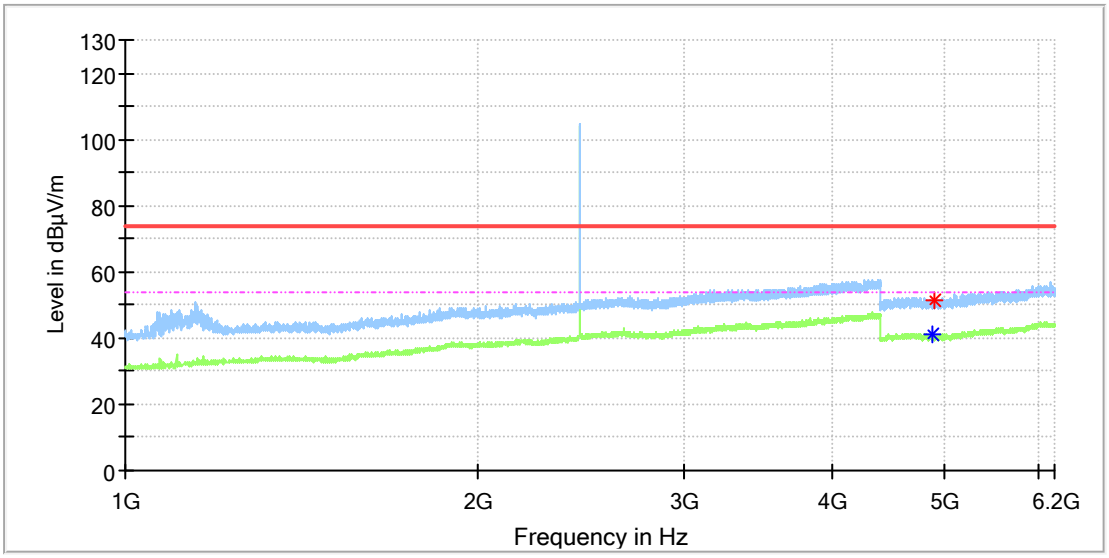


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	---	40.88	54.00	13.12	150.0	V	60.0	13.3
4822.500000	52.23	---	74.00	21.77	150.0	V	139.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

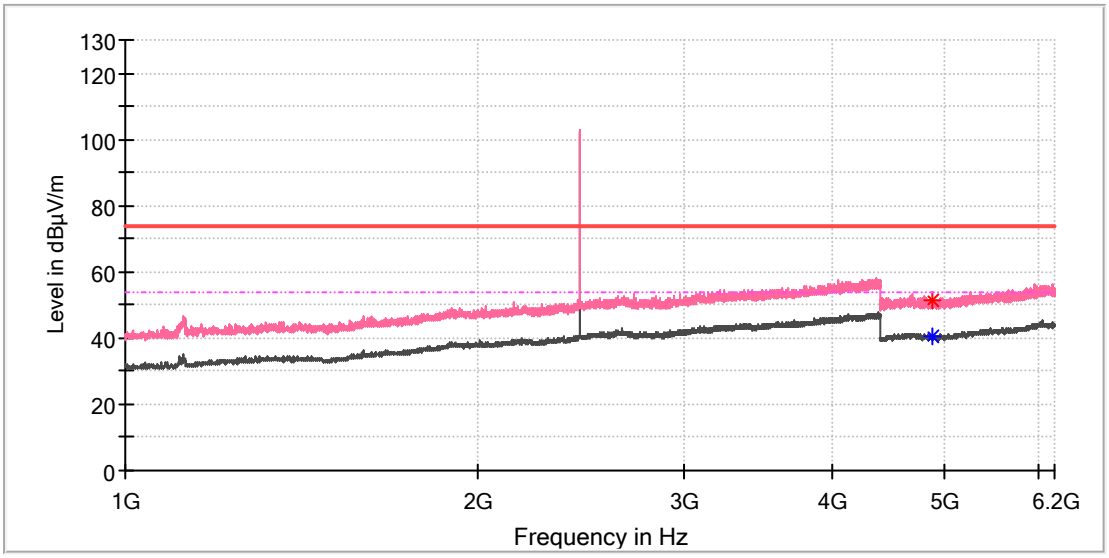


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	---	41.33	54.00	12.67	150.0	H	129.0	13.3
4901.500000	51.36	---	74.00	22.64	150.0	H	148.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

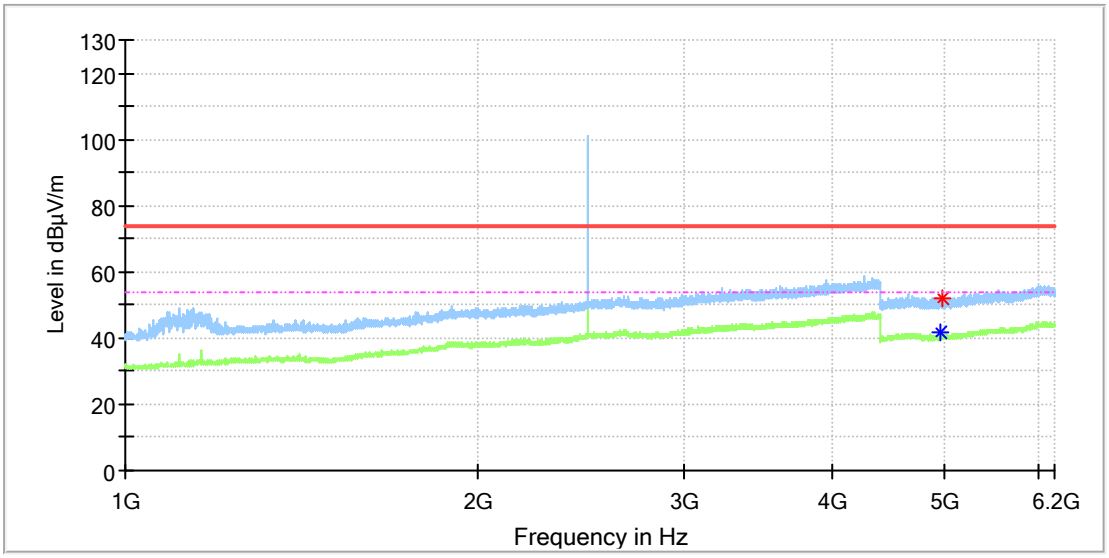


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4871.500000	51.60	---	74.00	22.40	150.0	V	146.0	13.3
4872.000000	---	40.69	54.00	13.31	150.0	V	58.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

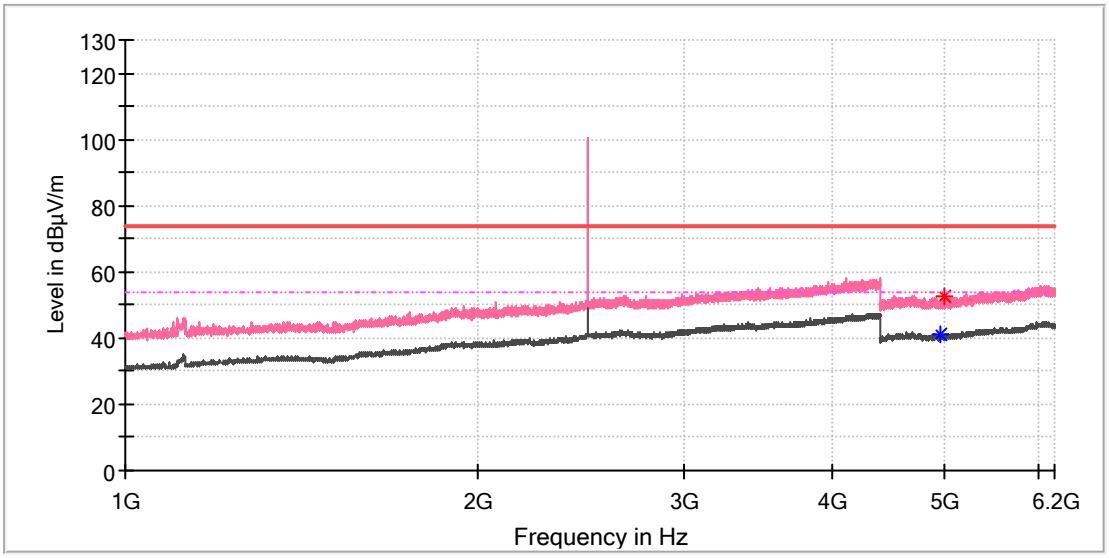


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	---	41.94	54.00	12.06	150.0	H	160.0	13.3
4973.000000	52.20	---	74.00	21.80	150.0	H	45.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

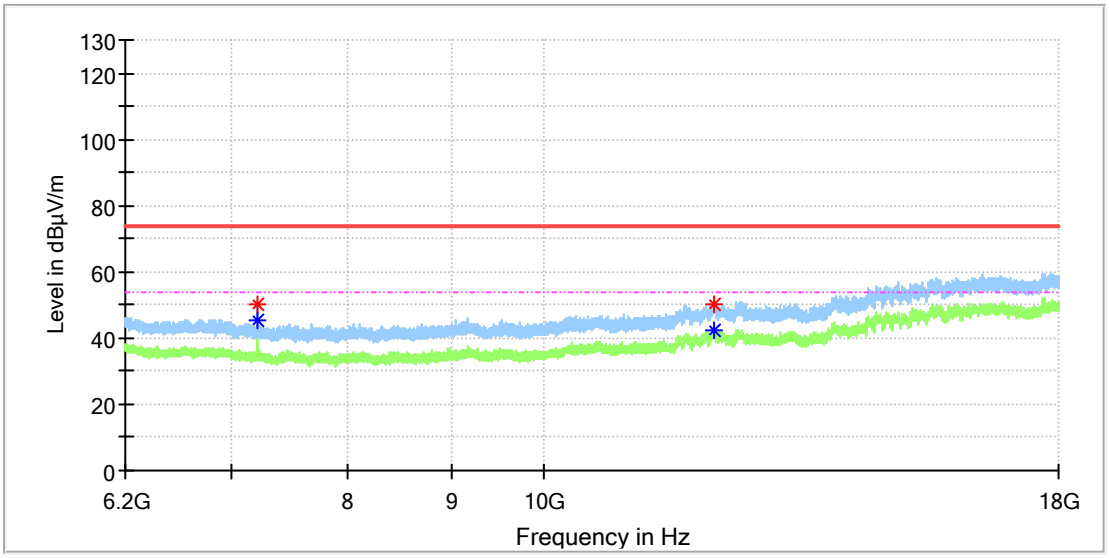


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	41.08	54.00	12.92	150.0	V	267.0	13.3
4998.500000	52.45	---	74.00	21.55	150.0	V	229.0	13.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

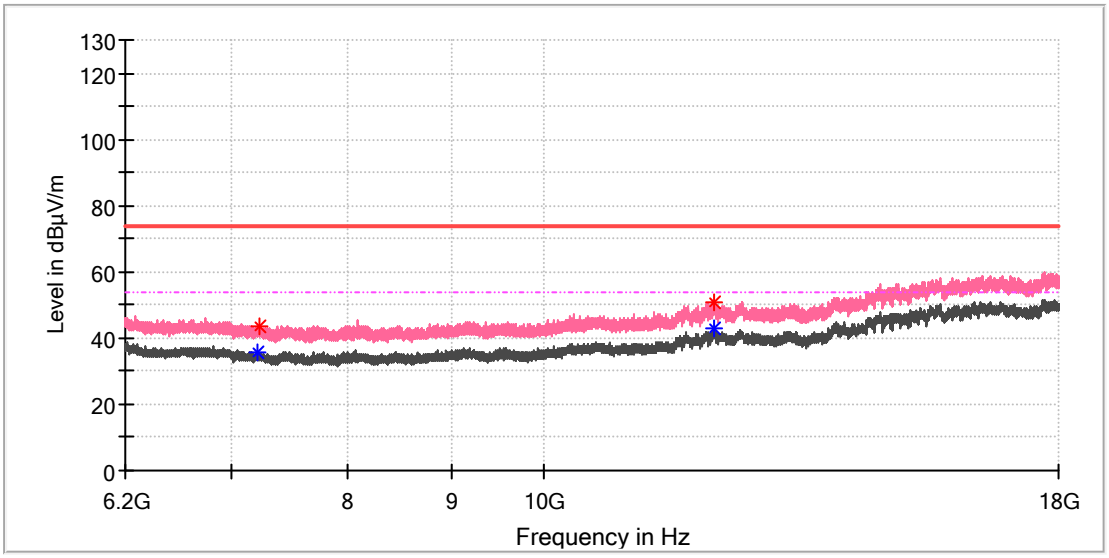


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	45.58	54.00	8.42	150.0	H	240.0	8.8
7205.950000	49.99	---	74.00	24.01	150.0	H	240.0	8.8
12135.400000	---	42.59	54.00	11.41	150.0	H	240.0	16.3
12139.333333	50.37	---	74.00	23.63	150.0	H	252.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

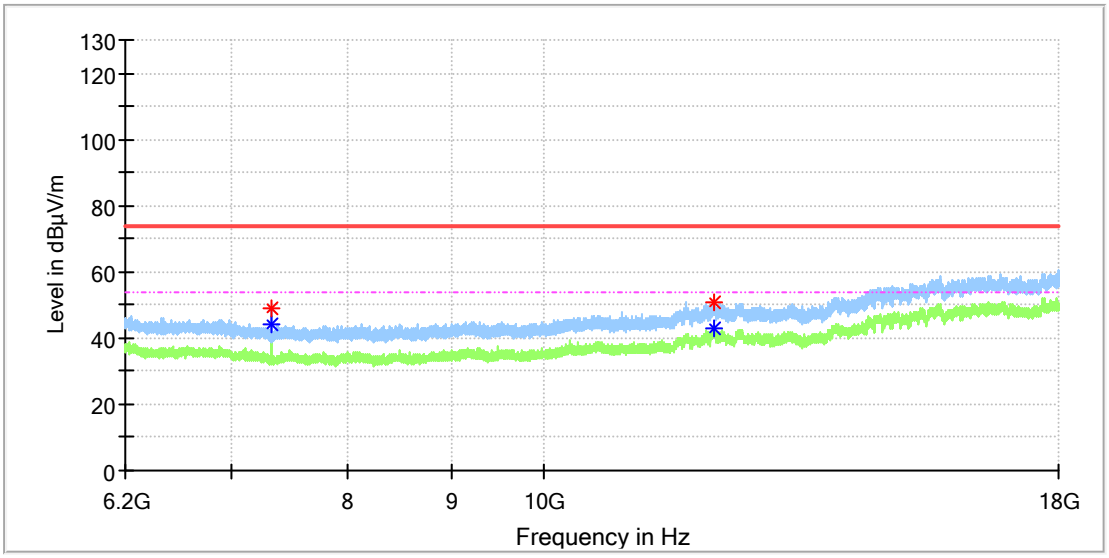


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	---	35.81	54.00	18.19	150.0	V	27.0	8.8
7232.008333	43.42	---	74.00	30.58	150.0	V	308.0	8.6
12139.333333	---	43.23	54.00	10.77	150.0	V	205.0	16.5
12152.608333	50.76	---	74.00	23.24	150.0	V	226.0	16.6

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

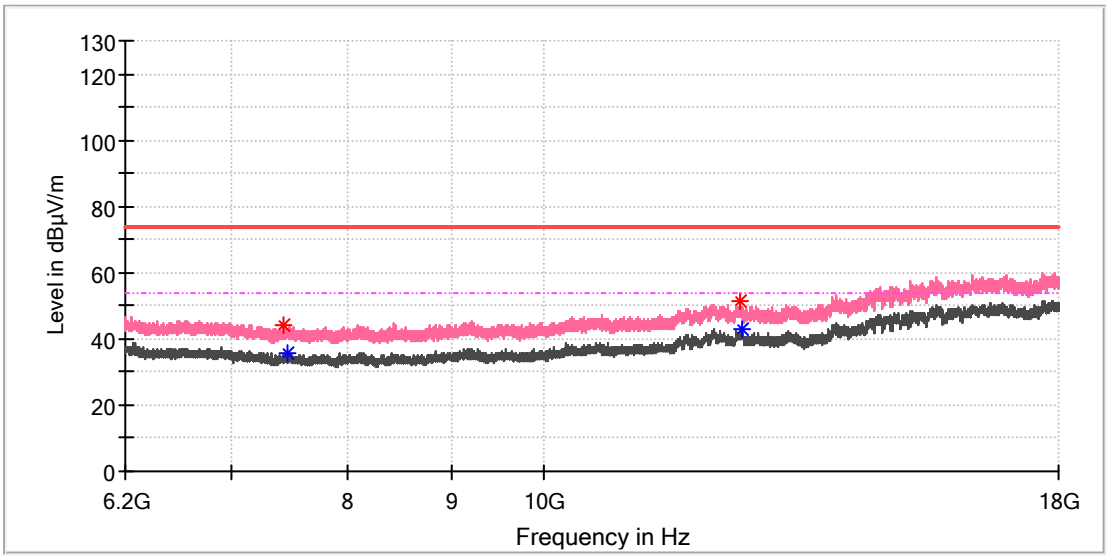


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	48.69	---	74.00	25.31	150.0	H	142.0	8.2
7322.966667	---	44.07	54.00	9.93	150.0	H	142.0	8.2
12151.625000	---	42.89	54.00	11.11	150.0	H	289.0	16.6
12157.033333	50.52	---	74.00	23.48	150.0	H	0.0	16.4

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

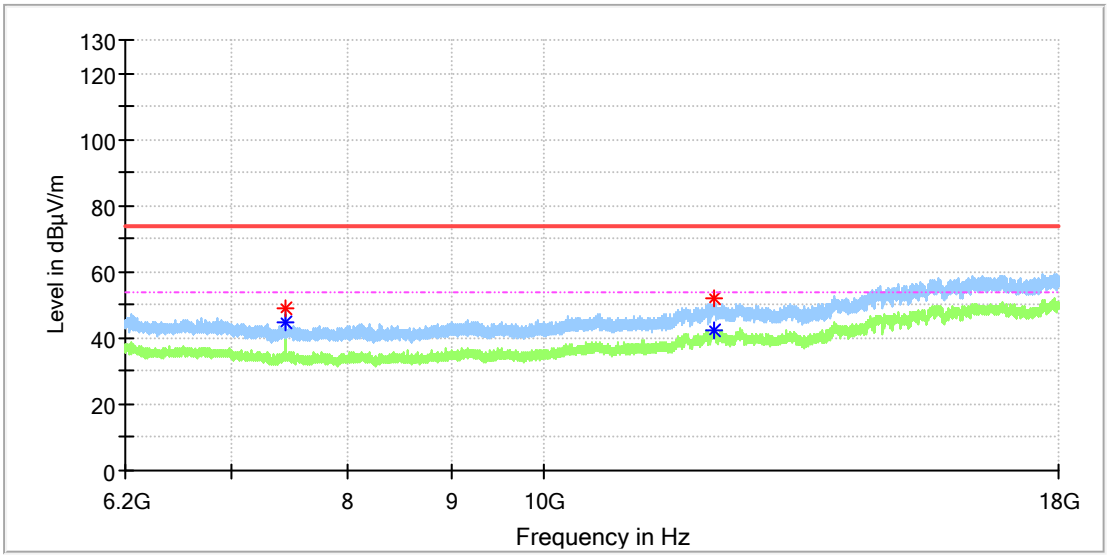


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7432.608333	44.32	---	74.00	29.68	150.0	V	227.0	8.4
7454.733333	---	35.82	54.00	18.18	150.0	V	94.0	8.5
12510.050000	51.28	---	74.00	22.72	150.0	V	300.0	16.1
12544.466667	---	43.17	54.00	10.83	150.0	V	324.0	16.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

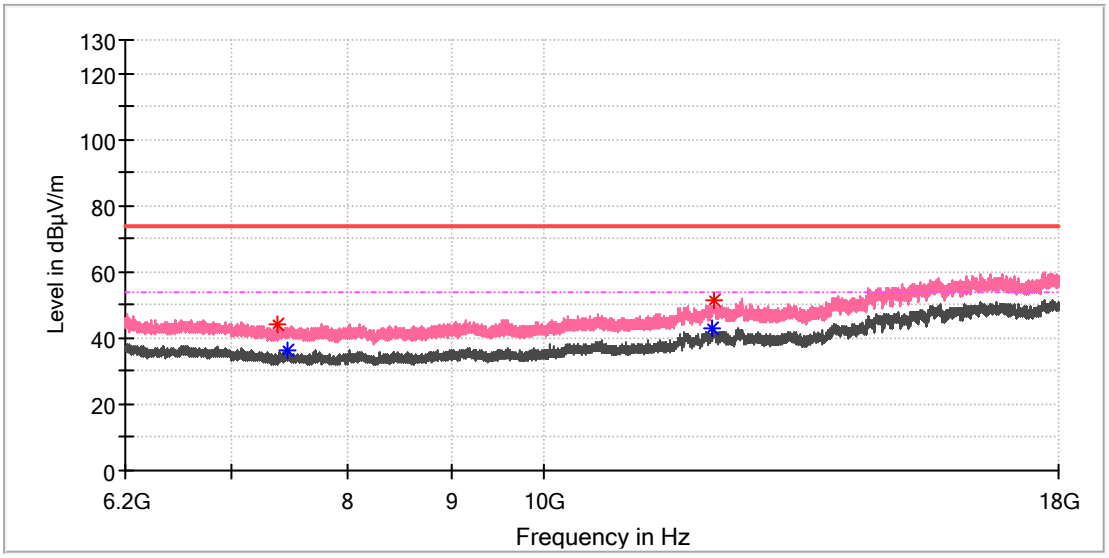


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	48.95	---	74.00	25.05	150.0	H	145.0	8.4
7439.983333	---	44.81	54.00	9.19	150.0	H	145.0	8.4
12146.708333	---	42.62	54.00	11.38	150.0	H	65.0	16.6
12148.675000	52.16	---	74.00	21.84	150.0	H	201.0	16.7

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



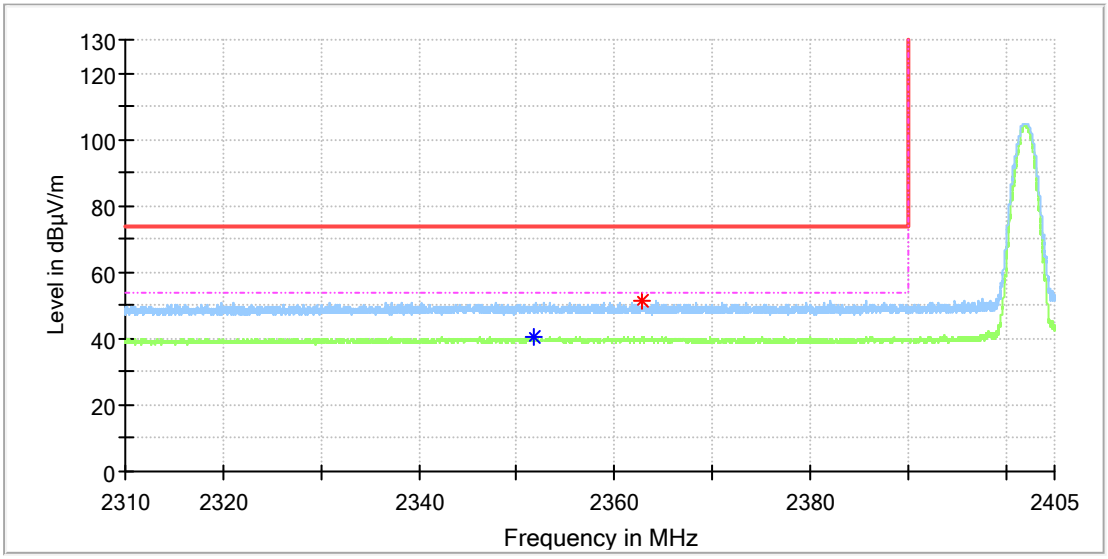
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7385.408333	43.91	---	74.00	30.09	150.0	V	331.0	8.2
7459.158333	---	36.03	54.00	17.97	150.0	V	253.0	8.5
12130.975000	---	43.00	54.00	11.00	150.0	V	117.0	16.2
12139.825000	51.62	---	74.00	22.38	150.0	V	57.0	16.5

Appendix C.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

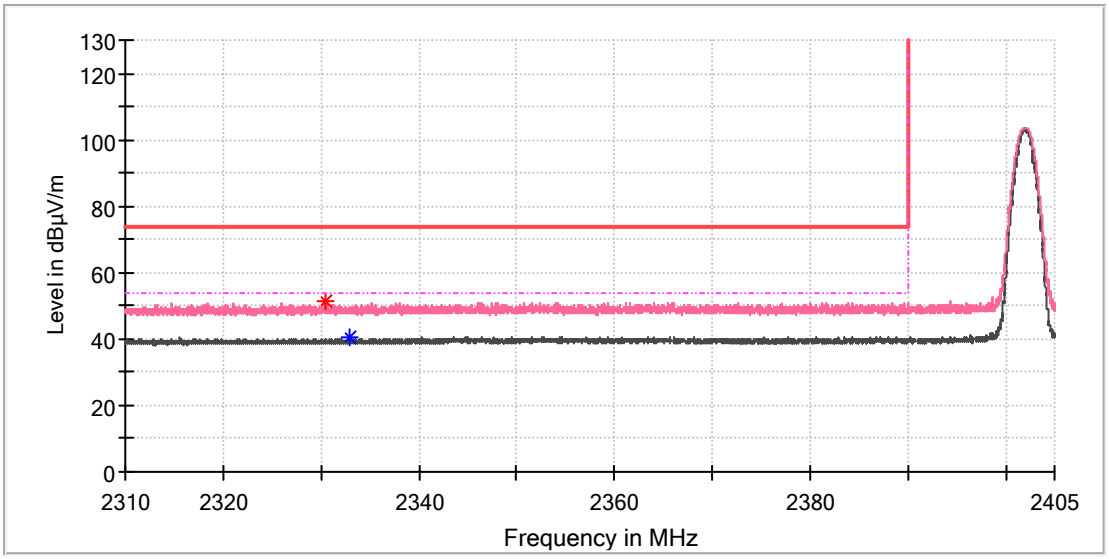


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.813971	---	40.78	54.00	13.22	150.0	H	52.0	8.5
2362.766912	51.36	---	74.00	22.64	150.0	H	248.0	8.5

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

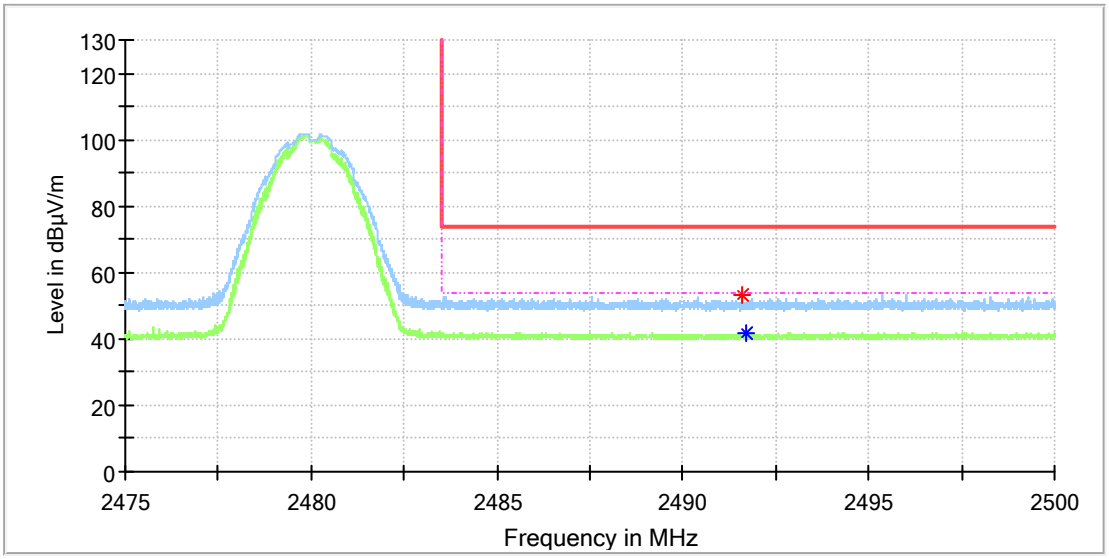


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2330.536765	51.22	---	74.00	22.78	150.0	V	330.0	8.3
2332.939706	---	40.44	54.00	13.56	150.0	V	250.0	8.3

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

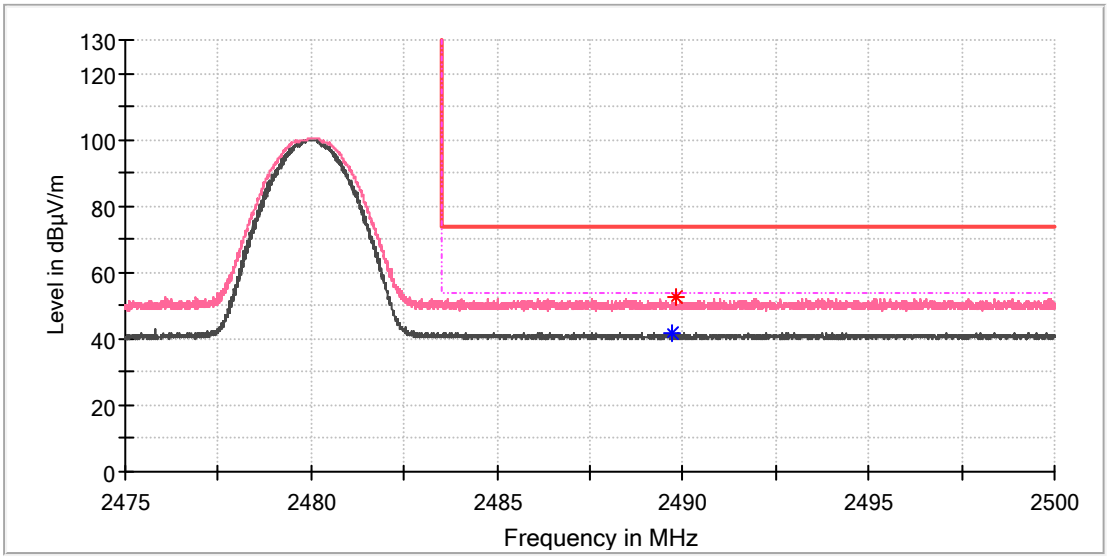


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.577206	53.43	---	74.00	20.57	150.0	H	0.0	9.0
2491.716912	---	41.61	54.00	12.39	150.0	H	358.0	9.0

EUT Information

EUT Name:	BLUETOOTH HEADSET
Model:	SENSE LITE
Test Mode:	BR_DH5_High channel
Order No/Sample No:	A003880376-012
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
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)
2489.702206	---	41.50	54.00	12.50	150.0	V	279.0	9.0
2489.830882	52.36	---	74.00	21.64	150.0	V	0.0	9.0