Prüfbericht-Nr.: *Test report no.:*	**CN25YH62 001**	**Auftrags-Nr.:** *Order no.:*	168585865	Seite 1 von 29 *Page 1 of 29*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2025-11-26	
Auftraggeber: *Client:*	**Edifier International Limited** P.O. Box 6264 General Post Office, Hong Kong			
Prüfgegenstand: *Test item:*	THX Spatial Audio Quad-mode Gaming Headset, 2.4GHz recevier			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	THX Spatial Audio Quad-mode Gaming Headset: EDF700088 2.4GHz recevier: EDF700083 （Trademark: EDIFIER, HECATE）			
Auftrags-Inhalt: *Order content:*	Type test			
Prüfgrundlage: *Test specification:*	EN 62479:2010 EN 300 328 V2.2.2 (2019-07)		BS EN 62479:2010 ETSI EN 300 328 V2.2.2 (2019-07)	

Wareneingangsdatum: *Date of sample receipt:*	2025-11-27
Prüfmuster-Nr.: *Test sample no.:*	A004147965
Prüfzeitraum: *Testing period:*	2025-11-27 - 2025-12-19
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:* 2026-02-03		**Ausstellungsdatum:** *Issue date:* 2026-02-03	
Stellung / Position	Project Manager	**Stellung** / Position	Authorizer

Sonstiges / *Other:* This report is for Article 3.2 Radio Spectrum and Article 3.1a Health requirements of THX Spatial Audio Quad-mode Gaming Headset: EDF700088..

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

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

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

Anmerkungen
Remarks

1	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. *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.*
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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 RF OUTPUT POWER
RESULT: Pass

5.1.2 POWER SPECTRAL DENSITY
RESULT: Pass

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP
RESULT: Not applicable

5.1.4 ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE
RESULT: Pass

5.1.5 HOPPING FREQUENCY SEPARATION
RESULT: Pass

5.1.6 MEDIUM UTILISATION (MU) FACTOR
RESULT: Not applicable

5.1.7 ADAPTIVITY
RESULT: Not applicable

5.1.8 OCCUPIED CHANNEL BANDWIDTH
RESULT: Pass

5.1.9 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN
RESULT: Pass

5.1.10 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN
RESULT: Pass

5.2.1 RECEIVER SPURIOUS EMISSIONS
RESULT: Pass

5.2.2 RECEIVER BLOCKING
RESULT: Pass

5.2.3 GEO-LOCATION CAPABILITY
RESULT: Not applicable

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Classic Bluetooth.

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

CNAS No.: L3080

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
Wireless Connectivity Tester	R&S	CMW270	101375	22.09.2026
Signal Analyzer	R&S	FSV 40	101441	22.09.2026
Vector Signal Generator	R&S	SMBV100A	263301	29.10.2026
Signal Generator	R&S	SMB100A	115186	22.09.2026
OSP	R&S	OSP 150	101017	29.10.2026
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	29.10.2026
Power Sensor	R&S	NRP-Z81	105677	22.09.2026
High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	22.09.2026
Shielding Room	Albatross	SR1	APC17151-SR1	13.09.2027

Unwanted Emission Testing				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
Signal Generator	R&S	SMB100A	180840	21.09.2026
Wideband Radio Communication Tester	R&S	CMW500	165339	21.09.2026
Signal Analyzer	R&S	FSV 40	101440	21.09.2026
System Controller Interface	R&S	SCI-100	S10010036	N/A
Filterbank	R&S	GSM	100811	21.09.2026
OSP	R&S	OSP 120	102041	N/A
OSP	R&S	OSP 150	101385	27.10.2026
Pre-amplifier	R&S	SCU08F1	08320030	21.09.2026
Amplifier	R&S	SCU-18F	180079	21.09.2026
Amplifier	R&S	SCU40A	100450	21.09.2026
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	06.10.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	06.10.2026
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	06.10.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19066	06.10.2026
Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	06.10.2026

Double Ridged Broadband Horn Antenna (1 – 18 GHz)	Schwarzbeck	BBHA 9120 D	01760	06.10.2026
Broadband Horn Antenna (15 – 40 GHz)	Schwarzbeck	BBHA 9170	00862	06.10.2026
Test Software	R&S	EMC32 (V10.50.40)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NW9P2	N/A
3m Fully Anechoic Chamber	Albatross	FAC-3m	APC17151-FAC	13.09.2027

2.3 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

Table 2: Maximum Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 3.68 dB

3 General Product Information

3.1 Product Function and Intended Use

The product is a Bluetooth headset which consist of a headset and a Dongle, the headset supports Bluetooth dual mode technology and the Dongle support Bluetooth BLE technology.

Manufacturer: Beijing Edifier Technology Co., Ltd.
Address: 815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China

Factory: Dongguan Edifier Technology Co., Ltd.
Address: No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, 523808 Guangdong, P.R. China
For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	THX Spatial Audio Quad-mode Gaming Headset
Type Designation	EDF700088
Trade Mark	EDIFIER, HECATE
Extreme Temperature Range	-20°C - +55°C
Operating Voltage	5Vdc; Li-ion cell: 3.7Vdc, 2000mAh
Technical Specification of Bluetooth (BDR & EDR)	
Operating Frequency Channel	2402 – 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, π/4DQPSK
Antenna Type	FPC antenna
Antenna Gain	1.5 dBi (Provide by the Client)
Technical Specification of Bluetooth (Bluetooth Low Energy)	
Operating Frequency Channel	2402 – 2480 MHz
Data rate	1Mbps, 2Mbps
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Antenna Type	FPC antenna
Antenna Gain	1.5 dBi (Provide by the Client)

Table 4: RF Channel and Frequency of Classical Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402.00**	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	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 5: RF Channel and Frequency of Bluetooth Low Energy

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

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth mode (BDR & EDR & BLE)
   1. Transmitting mode
      a. Low channel
      b. Middle channel
      c. High channel
   2. Receiving mode
      a. Low channel
      d. Middle channel
      b. High channel

B. On, Bluetooth playing

C. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Block Diagram
- Schematics
- User Manual
- Rating Label

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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.

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.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 7.

According to clause 3.1, all test were applied on model EDF700088.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	Lenovo	ThinkPad X2502	2014AP6082

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.

5 Test Results ERM

5.1 Transmitter Requirement & Test Suites

5.1.1 RF Output Power

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.2 of EN 300 328
		Clause 4.3.2.2 of EN 300 328
Limit	:	Clause 4.3.1.2.3 of EN 300 328
		Clause 4.3.2.2.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal and extreme temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

Table 7: Test Result of RF Output Power

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)
GFSK (BR)	Normal	+23.2 °C	6.96
	Extreme	-20 °C	7.04
		+55 °C	6.91
	Maximum Measured Value		7.04
Limit			**≤ 100mW (20dBm)**

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)
π/4DQPSK (BDR)	Normal	+23.2 °C	5.59
	Extreme	-20 °C	5.64
		+55 °C	5.49
	Maximum Measured Value		5.64
Limit			**≤ 100mW (20dBm)**

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)		
			2402MHz	2440MHz	2480MHz
Bluetooth LE (1 Mbps)	Normal	+23.2 °C	6.83	6.54	6.20
	Extreme	-20 °C	6.92	6.63	6.29
		+55 °C	6.72	6.43	6.09
	Maximum Measured Value		6.92		
Limit			**≤ 100mW (20dBm)**		

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)		
			2402MHz	2440MHz	2480MHz
Bluetooth LE (2 Mbps)	Normal	+23.1 °C	6.72	6.45	6.07
	Extreme	0 °C	6.82	6.55	6.17
		+45 °C	6.60	6.33	5.95
	Maximum Measured Value		6.82		
Limit			**≤ 100mW (20dBm)**		

NOTE:
The RF Output Power (E.I.R.P.) should be calculated using the formula below:
The RF Output Power (E.I.R.P.)=$A_{(RMS\ power)}$+ G+ Y
Antenna gain(G): 1.5 dBi, and Y=0dBi.

5.1.2 Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.3 of EN 300 328
Limit	:	Clause 4.3.2.3.3 of EN 300 328
Test suites	:	Clause 5.4.3 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix B.

5.1.3 Duty Cycle, TX-sequence, TX-gap

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.3 of EN 300 328
Limit	:	Clause 4.3.1.3.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Exemption Condition(s):

☒ These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.4 Accumulated Transmit Time, Frequency Occupation and Hopping Sequence

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.4 of EN 300 328
Limit	:	Clause 4.3.1.4.3 of EN 300 328
Test suites	:	Clause 5.4.4 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.5 Hopping Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.5 of EN 300 328
Limit	:	Clause 4.3.1.5.3 of EN 300 328
Test suites	:	Clause 5.4.5 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.6 Medium Utilisation (MU) Factor

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.6 of EN 300 328
		Clause 4.3.2.5 of EN 300 328
Limit	:	Clause 4.3.1.6.3 of EN 300 328
		Clause 4.3.2.5.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Exemption Condition(s):
☒ These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:
The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.7 Adaptivity

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.7.2 of EN 300 328
		Clause 4.3.2.6.3 of EN 300 328
Limit	:	Clause 4.3.1.7.2.2 of EN 300 328
		Clause 4.3.2.6.3.2 of EN 300 328
Test suites	:	Clause 5.4.6 of EN 300 328

Exemption Conditions:

☒ These requirements do not apply for equipment with a maximum declared RF Output power of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Conclusion:

The maximum declared RF output power is less than 10dBm e.i.r.p., hence this requirement is not applicable.

5.1.8 Occupied Channel Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.8 of EN 300 328
		Clause 4.3.2.7 of EN 300 328
Limit	:	Clause 4.3.1.8.3 of EN 300 328
		Clause 4.3.2.7.3 of EN 300 328
Test suites	:	Clause 5.4.7 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

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

5.1.9 Transmitter Unwanted Emissions in the Out-of-band Domain

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.9 of EN 300 328
		Clause 4.3.2.8 of EN 300 328
Limit	:	Clause 4.3.1.9.3 of EN 300 328
		Clause 4.3.2.8.3 of EN 300 328
Test suites	:	Clause 5.4.8 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

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

5.1.10 Transmitter Unwanted Emissions in the Spurious Domain

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.10 of EN 300 328 Clause 4.3.2.9 of EN 300 328
Limit	:	Clause 4.3.1.10.3 of EN 300 328 Clause 4.3.2.9.3 of EN 300 328
Test suites	:	Clause 5.4.9 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.1
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A & B

5.2 Receiver Requirement & Test Suites

5.2.1 Receiver Spurious Emissions

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.11 of EN 300 328 Clause 4.3.2.10 of EN 300 328
Limit	:	Clause 4.3.1.11.3 of EN 300 328 Clause 4.3.2.10.3 of EN 300 328
Test suites	:	Clause 5.4.10 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.2
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	101.4 kPa

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

5.2.2 Receiver Blocking

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.12 of EN 300 328
		Clause 4.3.2.11 of EN 300 328
Limit	:	Clause 4.3.1.12.4 of EN 300 328
		Clause 4.3.2.11.3 of EN 300 328
Test suites	:	Clause 5.4.11 of EN 300 328

Test Setup

Date of testing	:	2025-11-27 to 2025-12-19
Test voltage	:	DC3.7V
Test environment	:	Normal temperature
Operation mode	:	A.2
Ambient temperature	:	23.2 ℃
Relative humidity	:	44.6 %
Atmospheric pressure	:	101.4 kPa

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

For Bluetooth-BDR: the maximum RF output power is 7.04dBm.
For Bluetooth-BLE: the maximum RF output power is 6.92dBm.

Hence according to the 4.2.3.2, the Bluetooth-BDR and Bluetooth-BLE of EUT is belong category 2 receiver.

5.2.3 Geo-location Capability

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.1.13 of EN 300 328 Clause 4.3.2.12 of EN 300 328

Exemption Conditions:
This requirement only applies to equipment with geo-location capability as defined in clause 4.3.1.13.2 and 4.3.2.12.2.

Conclusion:

The EUT is adaptive equipment and does not support geo-location capability, hence this requirement is not applicable.

6 Safety Human Exposure

6.1 Human Exposure to Electromagnetic Fields 10MHz-300GHz

6.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

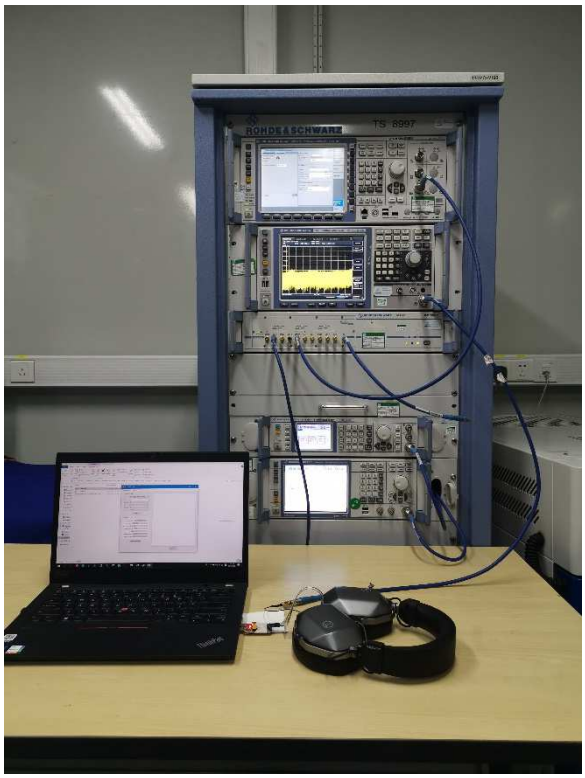
Test standard : EN 62479: 2010

The maximum measured peak power of EUT is only 7.04 dBm (5.058mW).

According to EN 62479:2010 clause 4.2, if the average total radiated power emitted by apparatus operating in the frequency range 10MHz-300GHz is less than or equal to 13.01dBm(20mW), then the apparatus is deemed to comply with the basic restrictions without testing.

7 Photographs of the Test Set-Up

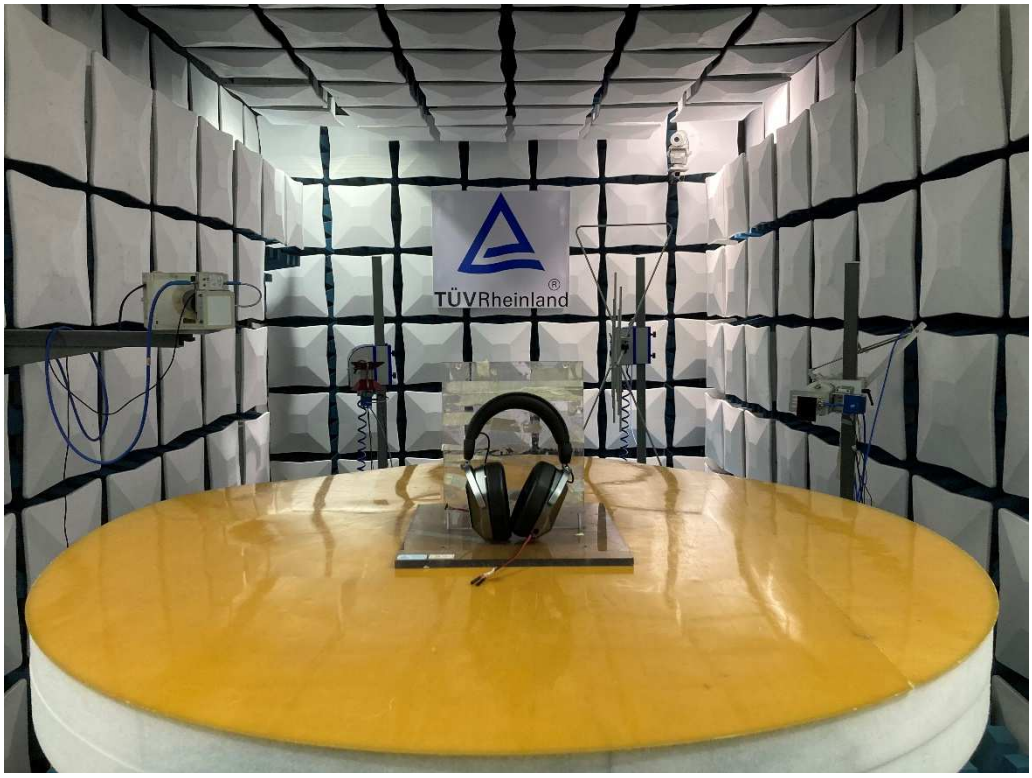
Photograph 1: Set-up for Radio Spectrum Testing, Normal temperature



Photograph 2: Set-up for Radio Spectrum Testing, extreme temperature



Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions



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APPENDIX A: TEST RESULTS OF CLASSIC BLUETOOTH

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APPENDIX A.1. ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

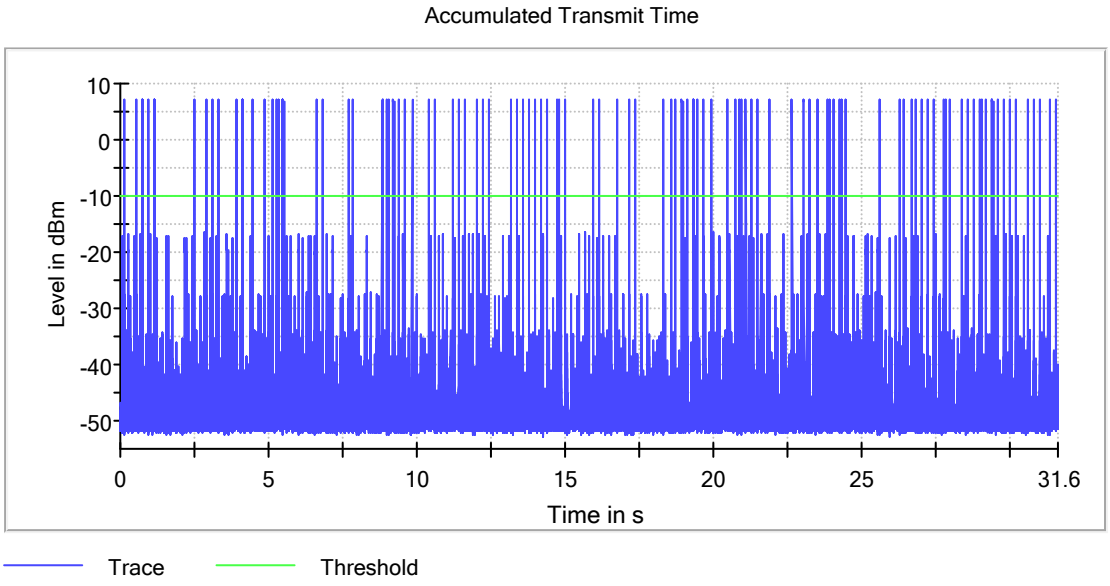
GFSK Mode

Accumulated Transmit Time (2402 MHz; 10dBm; 1 MHz)

Definition: The Accumulated Transmit Time is the total of the transmitter 'on' times, during an observation period, on a particular hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2402.000000	PASS	324.72	400.000	---	-10.0



Measurement

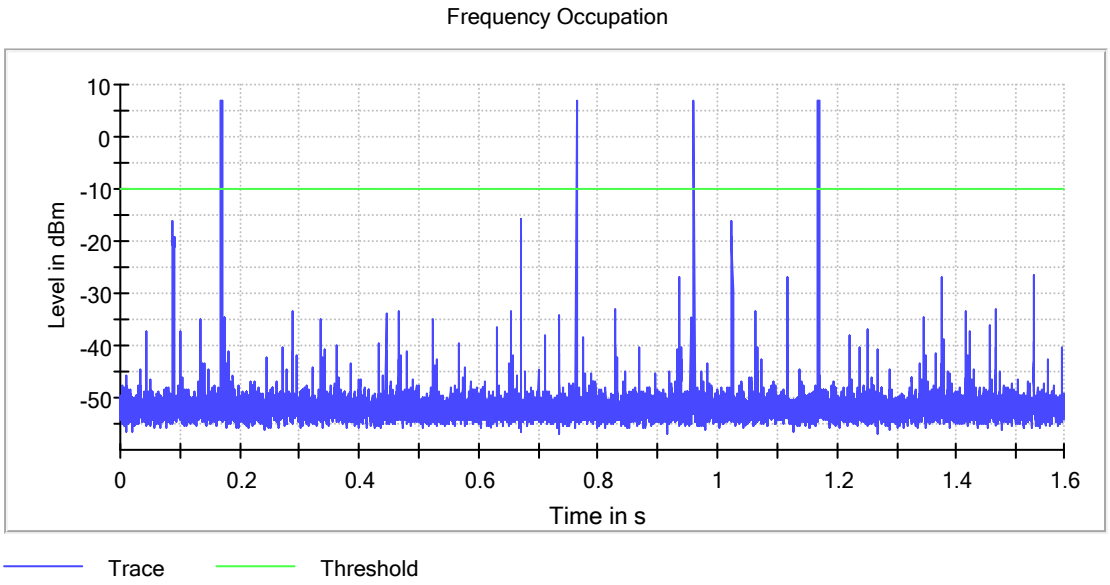
Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	30001	~ 30001
Sweeptime	1.185 s	1.185 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Frequency Occupation (2402 MHz; 10dBm; 1 MHz)

Definition: The Frequency Occupation is the number of times that each hopping frequency is occupied within a given period. A hopping frequency is considered to be occupied when the equipment selects that frequency from the hopping sequence. The equipment may be transmitting, receiving or stay idle during the Dwell Time spent on that hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2402.000000	PASS	11.561	---	0.000	-10.0



Measurement

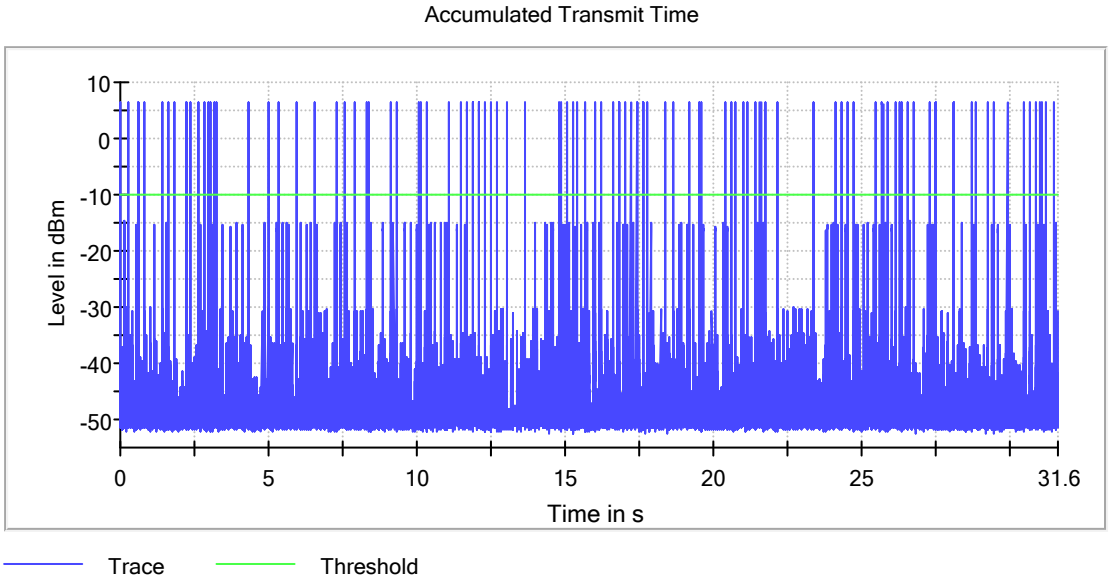
Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	1.580 s	1.580 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Accumulated Transmit Time (2480 MHz; 10dBm; 1 MHz)

Definition: The Accumulated Transmit Time is the total of the transmitter 'on' times, during an observation period, on a particular hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2480.000000	PASS	307.29	400.000	---	-10.0



Measurement

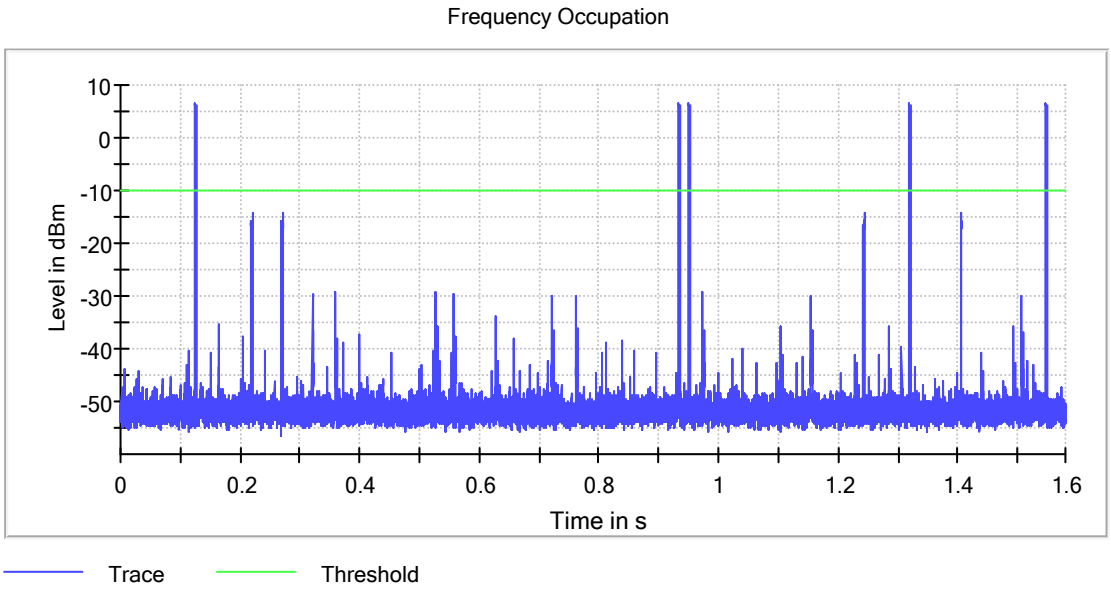
Setting	Instrument Value	Target Value
Center Frequency	2.48000 GHz	2.48000 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	30001	~ 30001
Sweeptime	1.185 s	1.185 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Frequency Occupation (2480 MHz; 10dBm; 1 MHz)

Definition: The Frequency Occupation is the number of times that each hopping frequency is occupied within a given period. A hopping frequency is considered to be occupied when the equipment selects that frequency from the hopping sequence. The equipment may be transmitting, receiving or stay idle during the Dwell Time spent on that hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2480.000000	PASS	14.450	---	0.000	-10.0



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48000 GHz	2.48000 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	1.580 s	1.580 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Hopping Sequence (frequency independent; 10dBm; 1 MHz)

Definition: The Hopping Sequence of a frequency hopping equipment is the unrepeated pattern of the hopping frequencies used by the equipment.

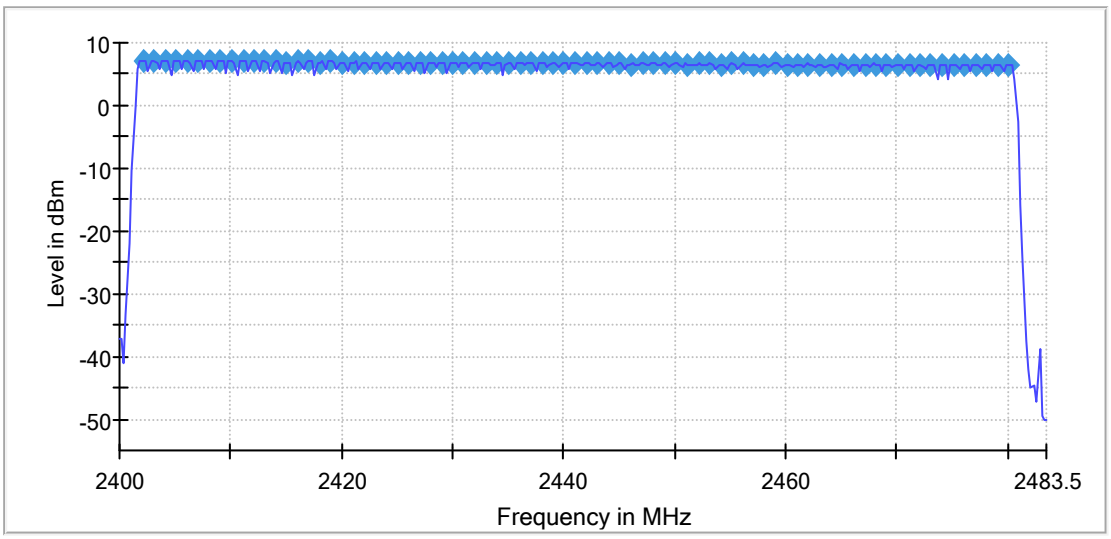
Hopping Frequencies

Hopping Frequencies	Limit Min	Limit Max	Result
79	15	---	PASS

Band Allocation

Band Allocation (MHz)	Band Allocation Low Frequency (MHz)	Band Allocation High Frequency (MHz)	Limit Min	Limit Max	Result
79.761194	2401.121642	2480.882836	---	---	PASS

Sequence



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	500.000 kHz	>= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	335	~ 335
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	19 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.56 dB	1.00 dB

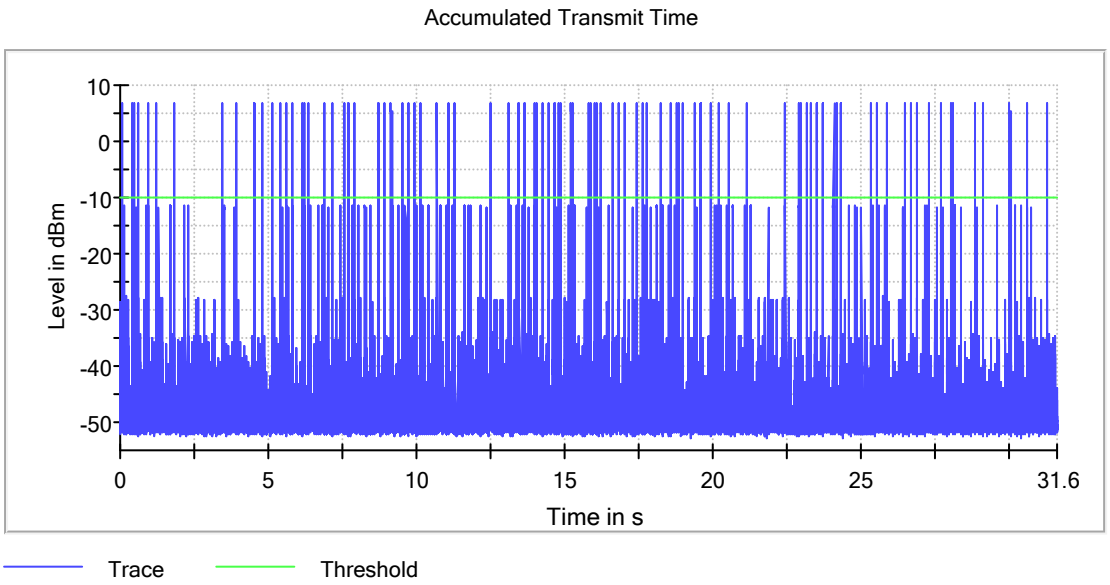
π/4DQPSK

Accumulated Transmit Time (2402 MHz; 10dBm; 1 MHz)

Definition: The Accumulated Transmit Time is the total of the transmitter 'on' times, during an observation period, on a particular hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2402.000000	PASS	299.40	400.000	---	-10.0



Measurement

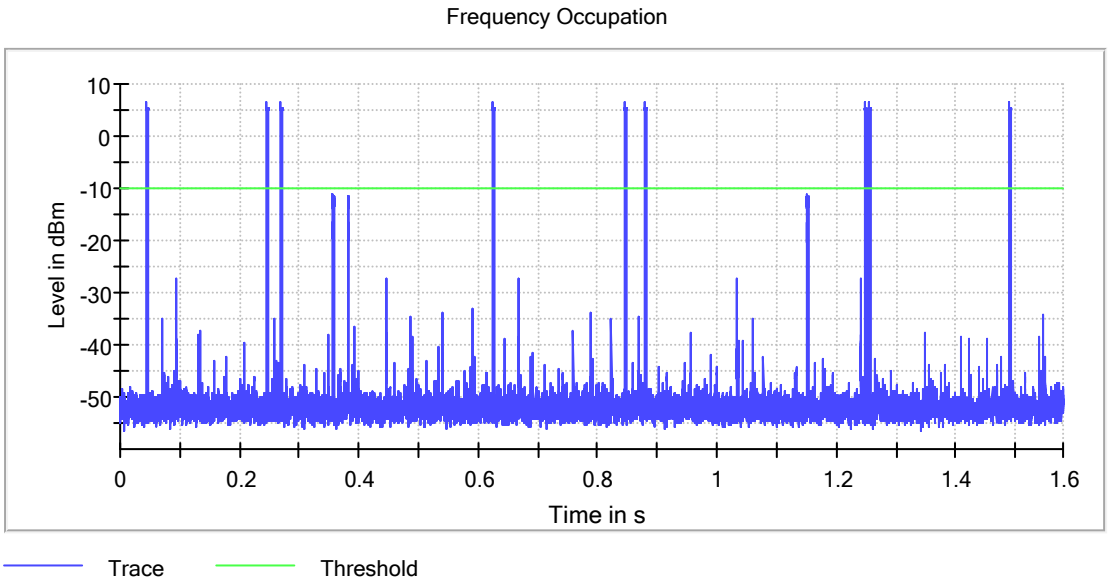
Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	30001	~ 30001
Sweeptime	1.185 s	1.185 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Frequency Occupation (2402 MHz; 10dBm; 1 MHz)

Definition: The Frequency Occupation is the number of times that each hopping frequency is occupied within a given period. A hopping frequency is considered to be occupied when the equipment selects that frequency from the hopping sequence. The equipment may be transmitting, receiving or stay idle during the Dwell Time spent on that hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2402.000000	PASS	26.082	---	0.000	-10.0



Measurement

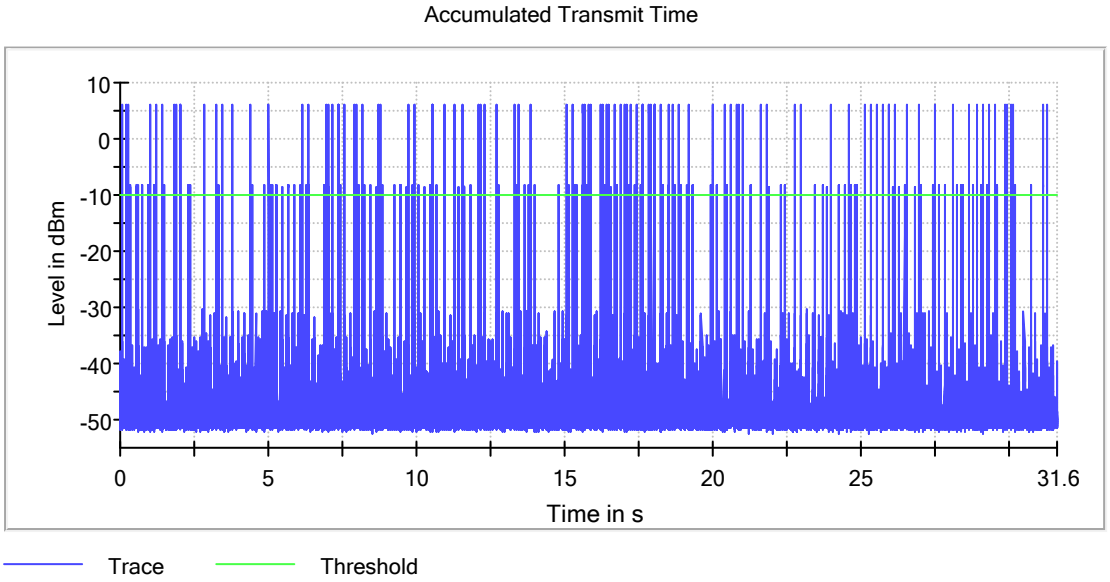
Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	1.580 s	1.580 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Accumulated Transmit Time (2480 MHz; 10dBm; 1 MHz)

Definition: The Accumulated Transmit Time is the total of the transmitter 'on' times, during an observation period, on a particular hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2480.000000	PASS	314.73	400.000	---	-10.0



Measurement

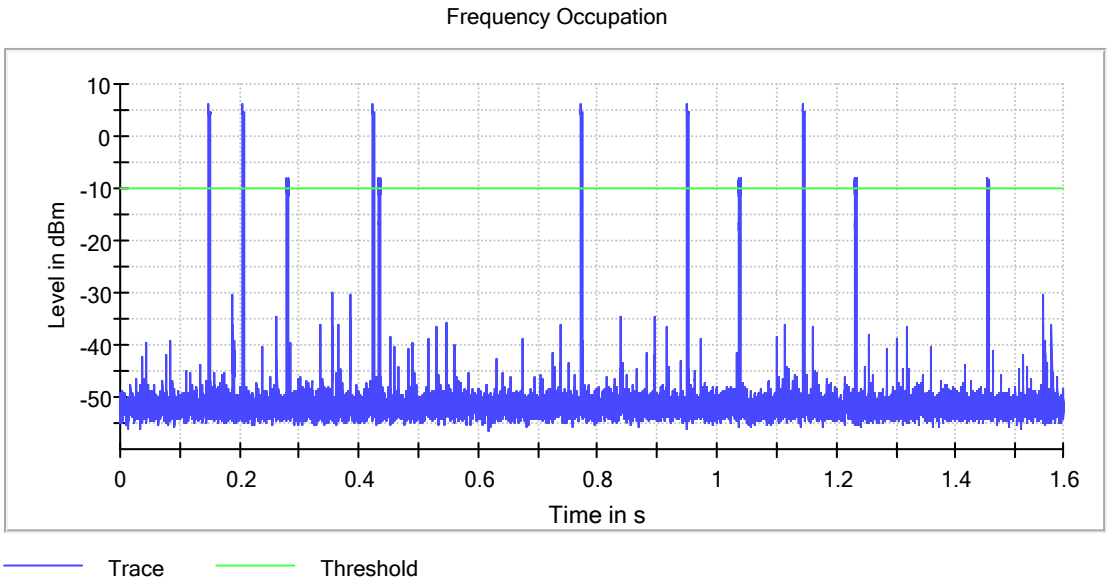
Setting	Instrument Value	Target Value
Center Frequency	2.48000 GHz	2.48000 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	30001	~ 30001
Sweeptime	1.185 s	1.185 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Frequency Occupation (2480 MHz; 10dBm; 1 MHz)

Definition: The Frequency Occupation is the number of times that each hopping frequency is occupied within a given period. A hopping frequency is considered to be occupied when the equipment selects that frequency from the hopping sequence. The equipment may be transmitting, receiving or stay idle during the Dwell Time spent on that hopping frequency.

Result

DUT Frequency (MHz)	Result	Time (ms)	Limit Max (ms)	Limit Min (ms)	Threshold (dBm)
2480.000000	PASS	17.937	---	0.000	-10.0



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48000 GHz	2.48000 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	1.580 s	1.580 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Hopping Sequence (frequency independent; 10dBm; 1 MHz)

Definition: The Hopping Sequence of a frequency hopping equipment is the unrepeated pattern of the hopping frequencies used by the equipment.

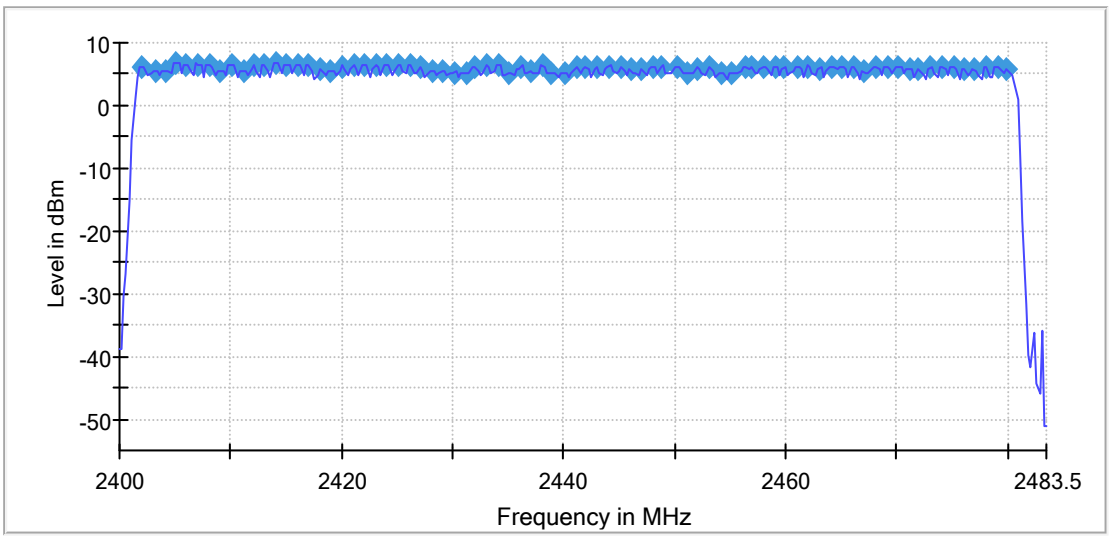
Hopping Frequencies

Hopping Frequencies	Limit Min	Limit Max	Result
79	15	---	PASS

Band Allocation

Band Allocation (MHz)	Band Allocation Low Frequency (MHz)	Band Allocation High Frequency (MHz)	Limit Min	Limit Max	Result
80.010448	2401.121642	2481.132090	---	---	PASS

Sequence



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	500.000 kHz	>= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	335	~ 335
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO

APPENDIX A.2. HOPPING FREQUENCY SEPARATION

GFSK

Hopping Frequency Separation (2402 MHz; 10dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

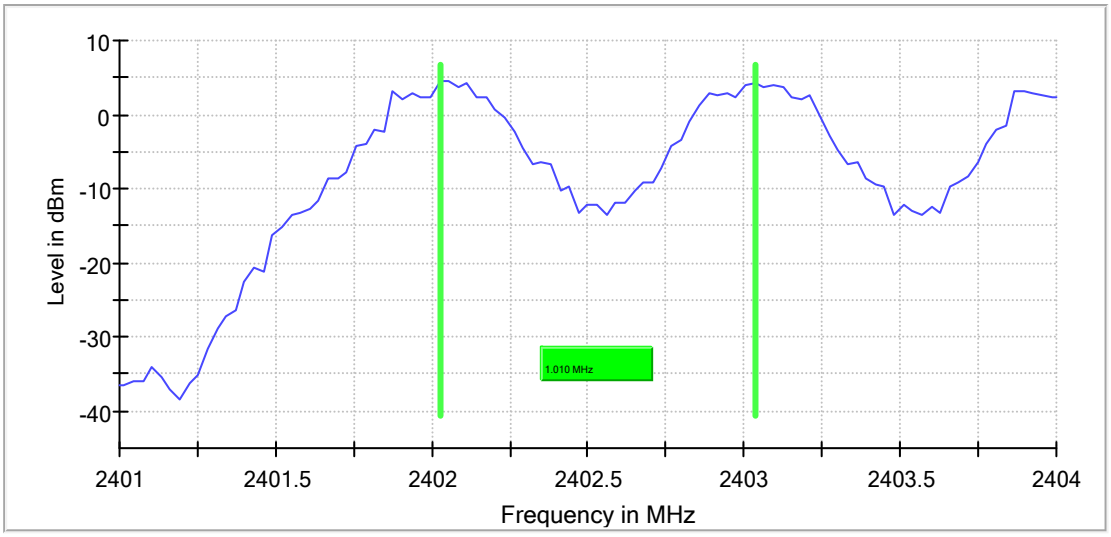
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009901	0.100000	---	2402.024752	2403.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

Hopping Frequency Separation (2441 MHz; 10dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

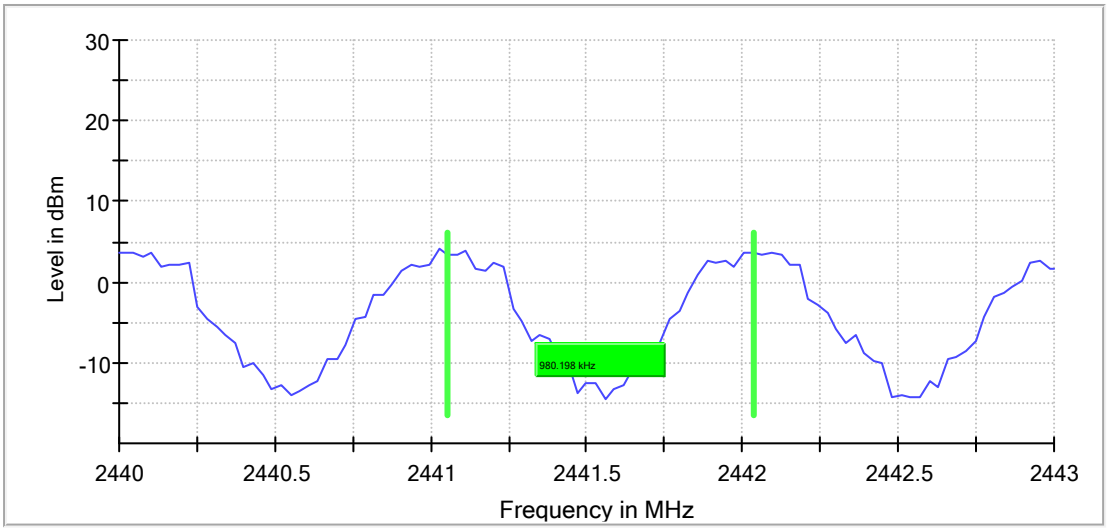
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	0.980198	0.100000	---	2441.054455	2442.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

Hopping Frequency Separation (2479 MHz; 10dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

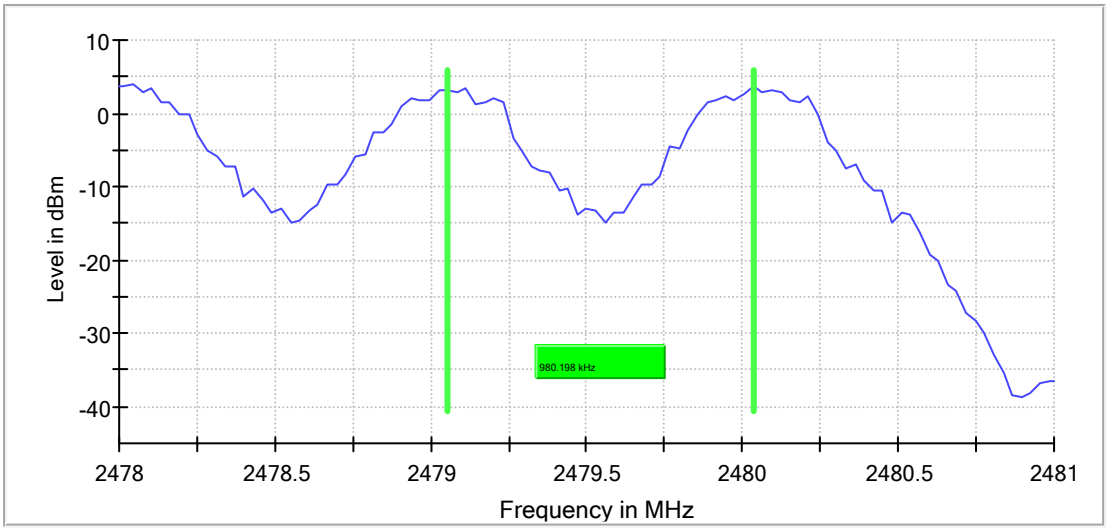
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2479.000000	0.980198	0.100000	---	2479.054455	2480.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2479.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

π/4DQPSK

Hopping Frequency Separation (2402 MHz; 10dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

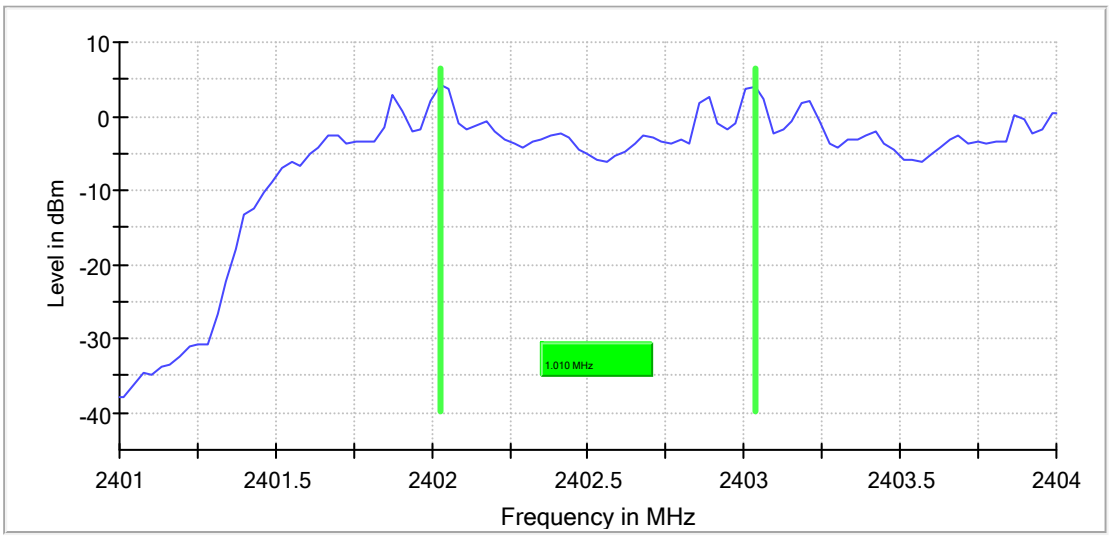
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009901	0.100000	---	2402.024752	2403.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

Hopping Frequency Separation (2441 MHz; 10.000 dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

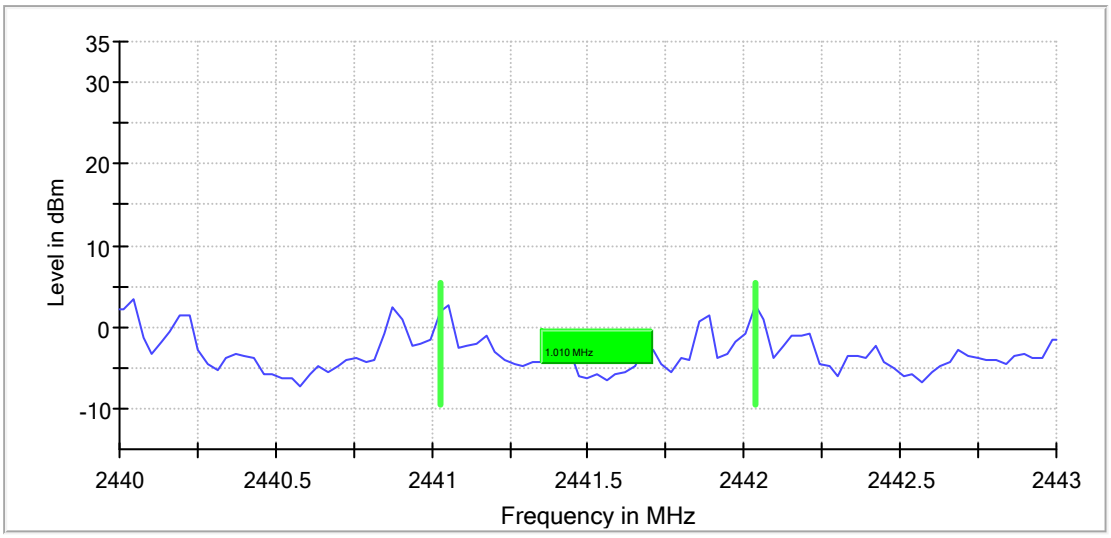
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009901	0.100000	---	2441.024752	2442.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

Hopping Frequency Separation (2479 MHz; 10dBm; 1 MHz)

Definition: The Hopping Frequency Separation is the frequency separation between two adjacent hopping frequencies.

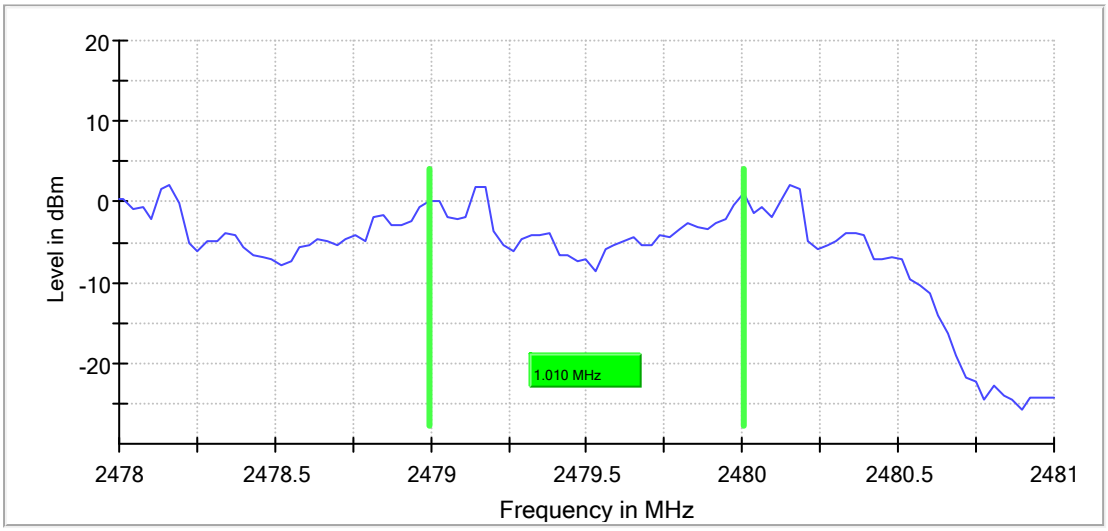
Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2479.000000	1.009900	0.100000	---	2478.995050	2480.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2479.000000	PASS

HFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	63.207 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	2000	2000
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO

APPENDIX A.3. OCCUPIED CHANNEL BANDWIDTH

GFSK

Occupied Channel Bandwidth (2402 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

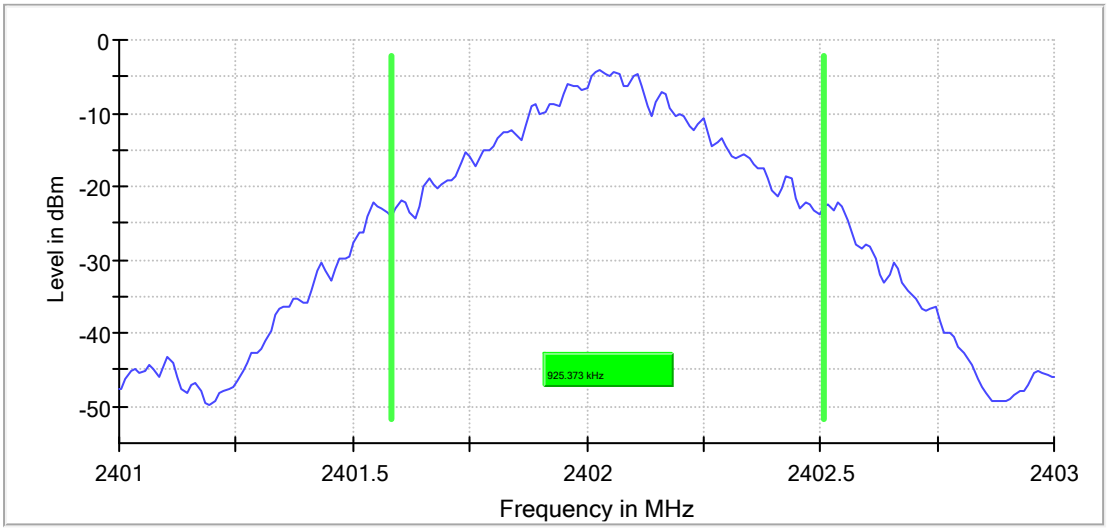
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	0.925373	---	---	2401.582090	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2402.507463	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.33 dB	0.50 dB

Occupied Channel Bandwidth (2441 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

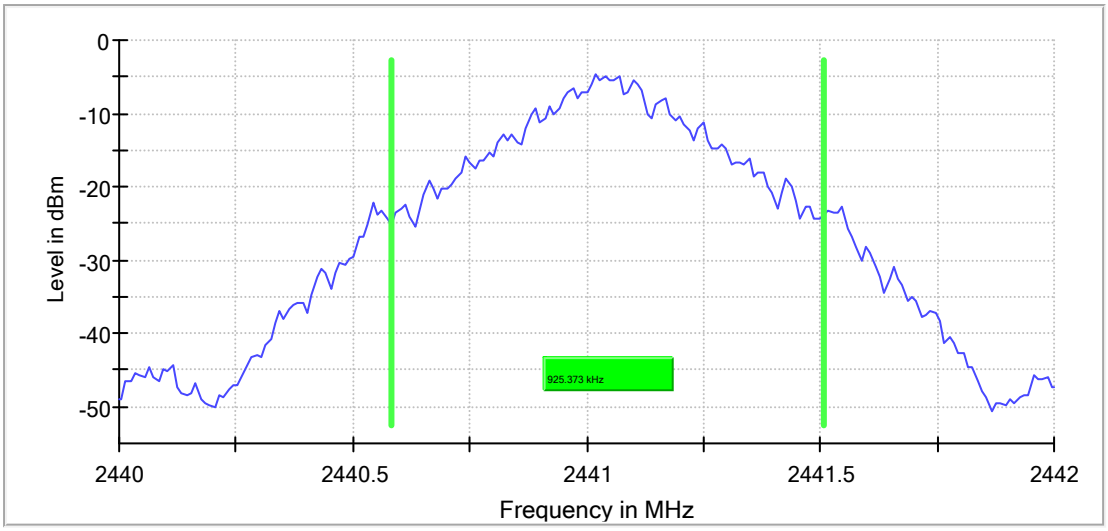
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2441.000000	0.925373	---	---	2440.582090	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2441.000000	2441.507463	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

Occupied Channel Bandwidth (2480 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

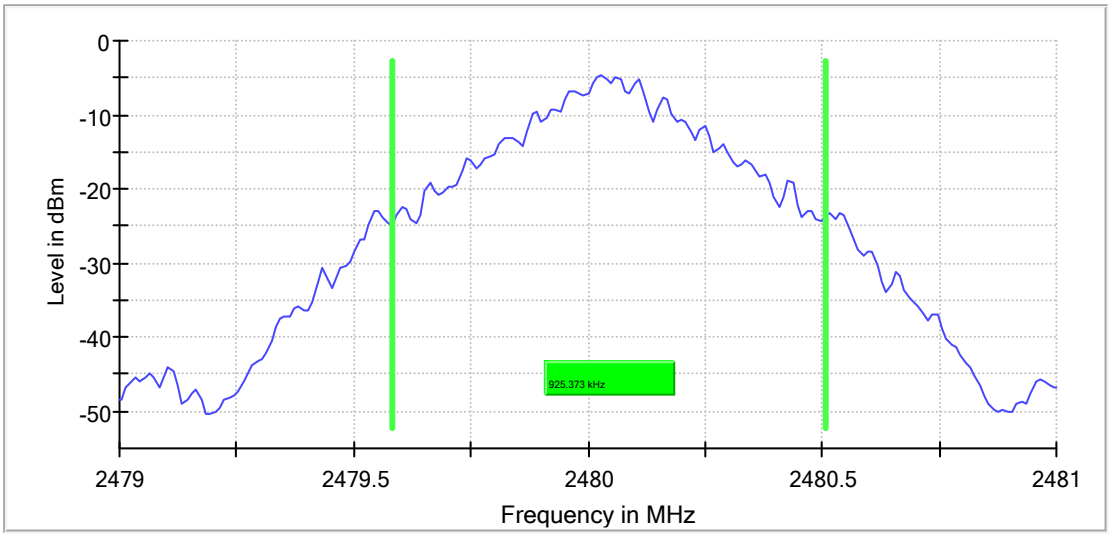
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	0.925373	---	---	2479.582090	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2480.507463	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.19 dB	0.50 dB

π/4DQPSK

Occupied Channel Bandwidth (2402 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

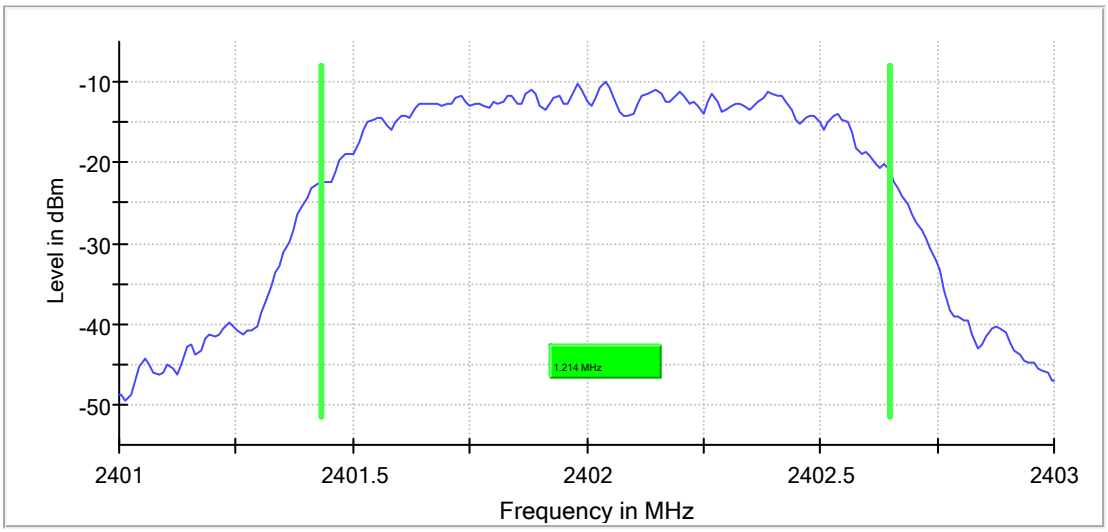
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	1.213930	---	---	2401.432836	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2402.646766	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

Occupied Channel Bandwidth (2441 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

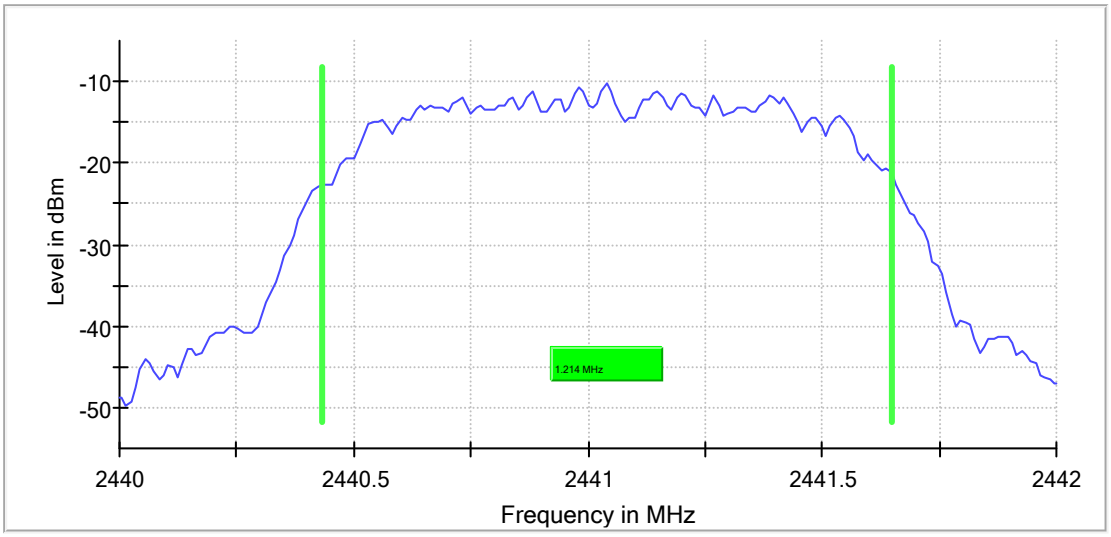
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2441.000000	1.213930	---	---	2440.432836	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2441.000000	2441.646766	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.10 dB	0.50 dB

Occupied Channel Bandwidth (2480 MHz; 10dBm; 1 MHz; Test Mode)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

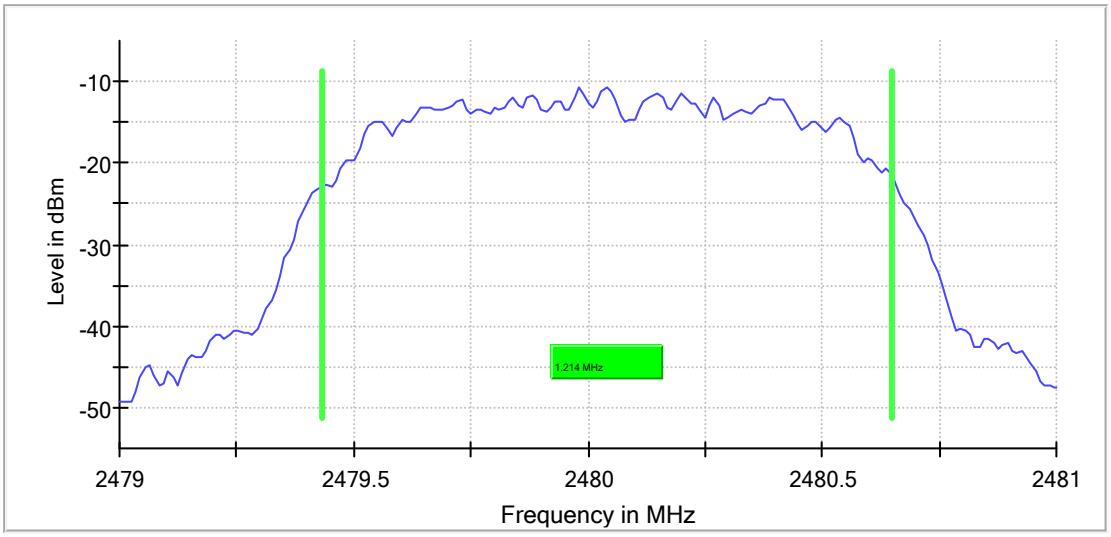
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	1.213930	---	---	2479.432836	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2480.646766	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.50 dB

APPENDIX A.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

GFSK

Tx unwanted emissions in the out-of-band domain (frequency independent; 10dBm; 1 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

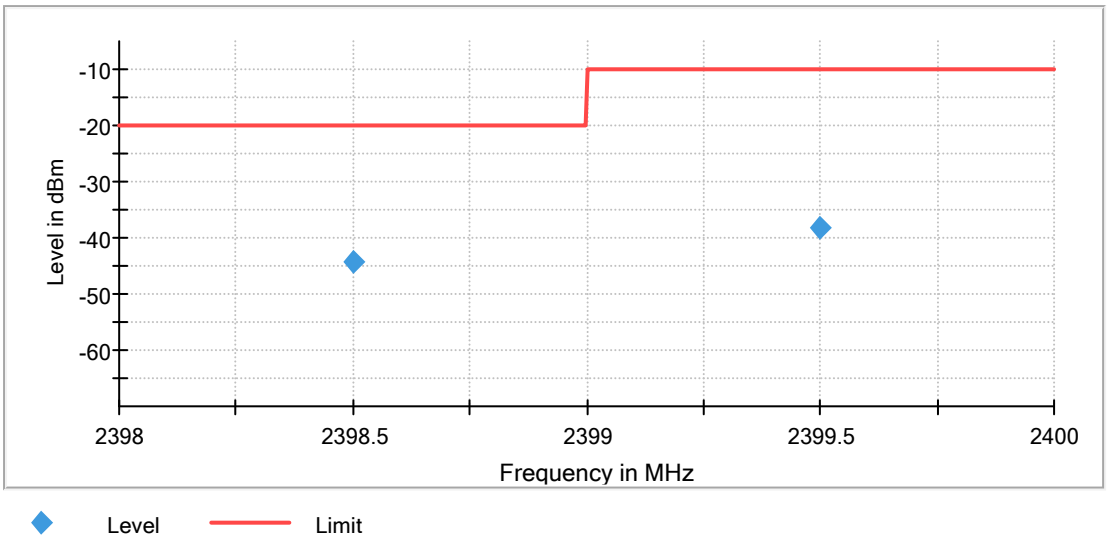
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
hopping	0	4	PASS

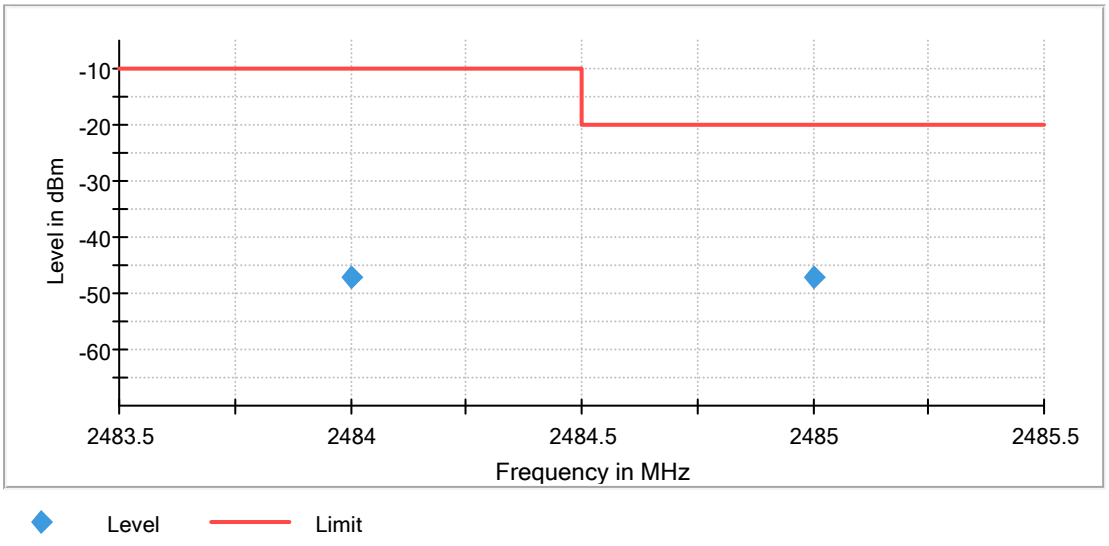
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2398.500000	-44.2	-20.0	PASS
2399.500000	-38.1	-10.0	PASS
2484.000000	-47.3	-10.0	PASS
2485.000000	-47.2	-20.0	PASS

Out of band low



Out of band high



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48500 GHz	2.48500 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	6338	~ 6338
Sweeptime	6.338 ms	6.338 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	44.000 %	-1.000 %
Trigger Offset	3.169 ms	3.169 ms

π/4DQPSK

Tx unwanted emissions in the out-of-band domain (frequency independent; 10dBm; 1 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

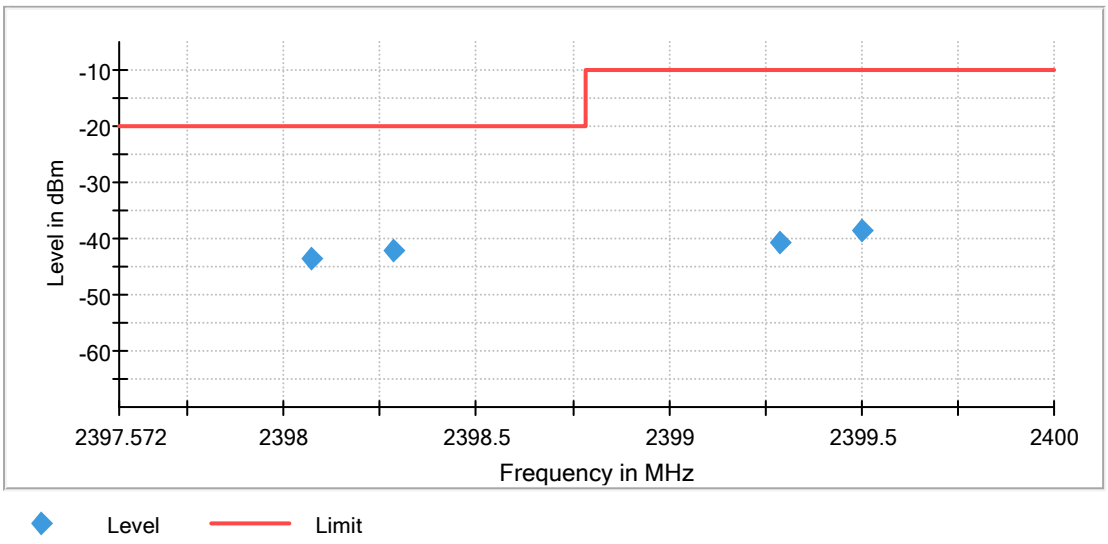
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
hopping	0	8	PASS

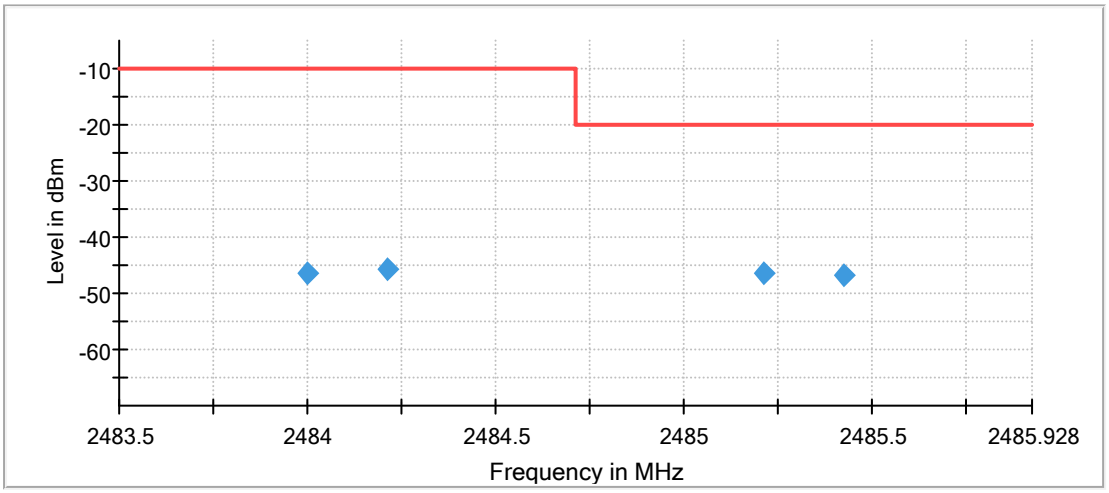
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2398.072140	-43.4	-20.0	PASS
2398.286070	-42.2	-20.0	PASS
2399.286070	-40.6	-10.0	PASS
2399.500000	-38.4	-10.0	PASS
2484.000000	-46.3	-10.0	PASS
2484.213930	-45.6	-10.0	PASS
2485.213930	-46.3	-20.0	PASS
2485.427860	-46.6	-20.0	PASS

Out of band low



Out of band high



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48555 GHz	2.48555 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	6345	~ 6345
Sweeptime	6.345 ms	6.345 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	48.000 %	-1.000 %
Trigger Offset	3.172 ms	3.172 ms

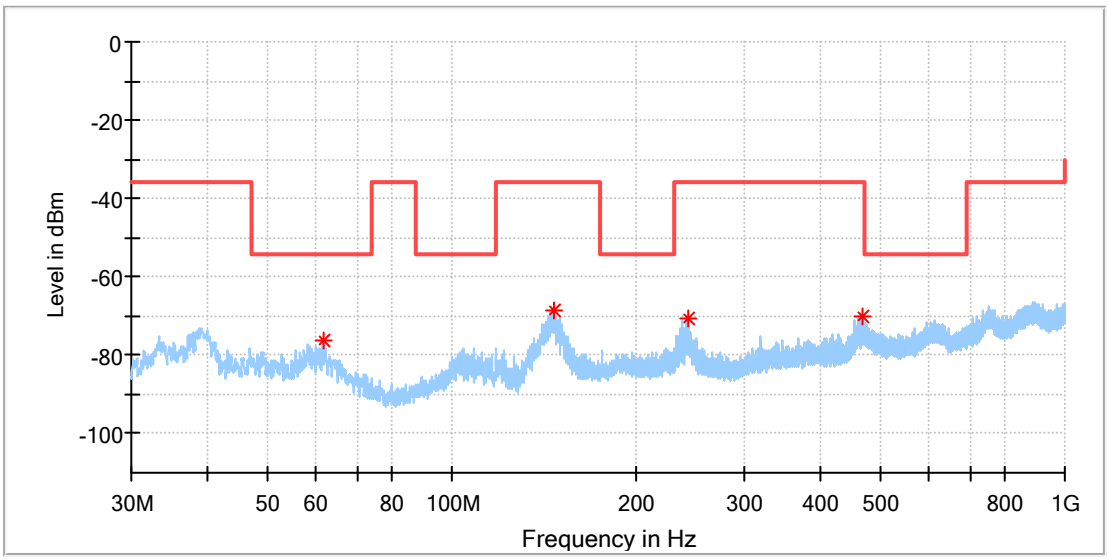
APPENDIX A.5. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Note: 1. This testing was carried out on different modes, but only the worst case was presented in this report.
2. The highest waveform in the figure is Bluetooth Fundamental.
3. Emissions far below the limits are not recorded.

Below 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

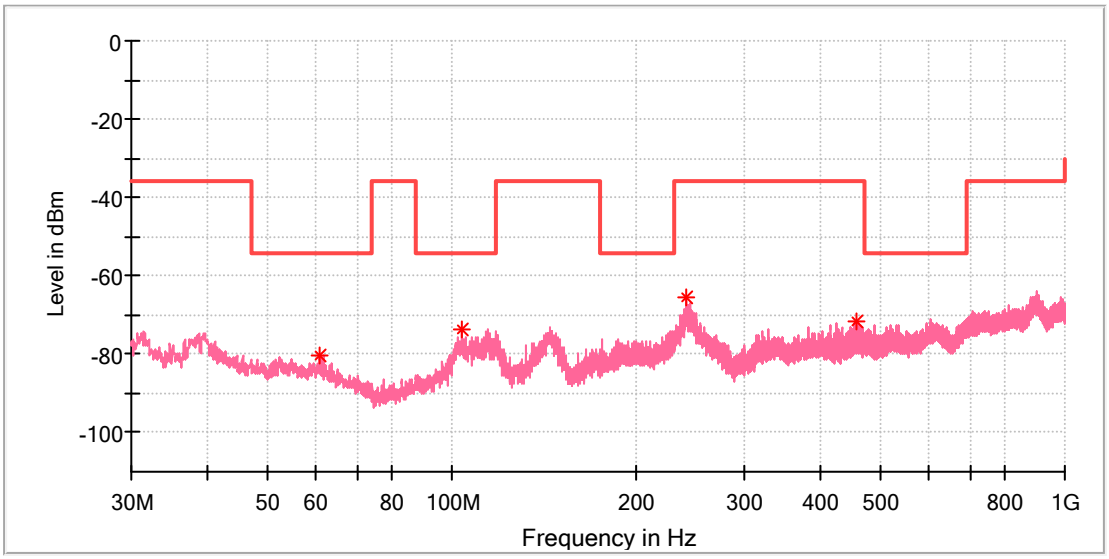


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.622000	-76.34	-54.00	22.34	150.0	H	243.0	-119.3
146.836500	-68.59	-36.00	32.59	150.0	H	354.0	-124.2
242.769500	-70.35	-36.00	34.35	150.0	H	83.0	-117.2
466.160500	-69.99	-36.00	33.99	150.0	H	156.0	-110.7

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



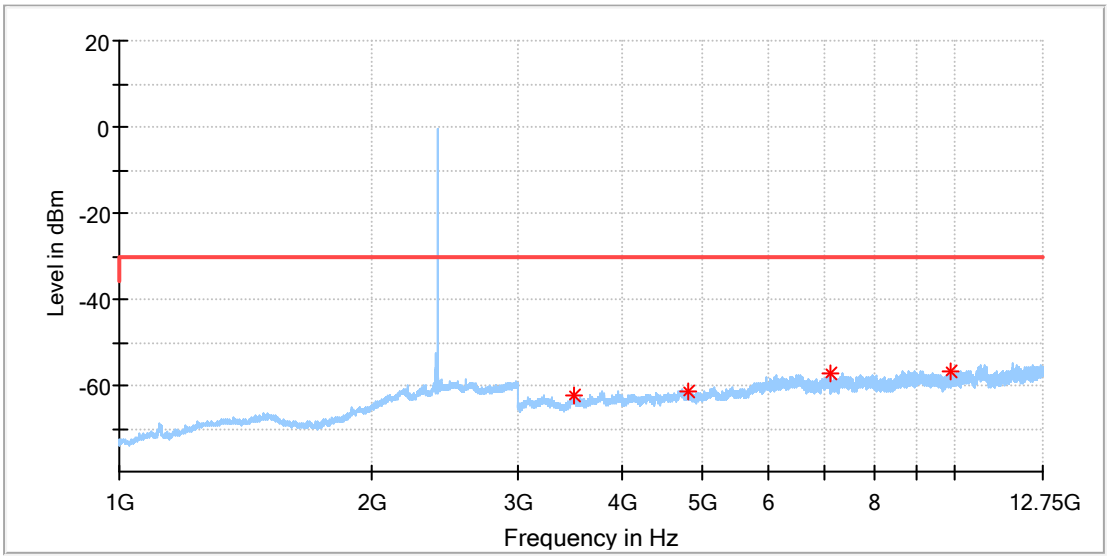
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.894500	-80.46	-54.00	26.46	150.0	V	186.0	-119.5
103.768500	-73.66	-54.00	19.66	150.0	V	99.0	-120.9
241.411500	-65.73	-36.00	29.73	150.0	V	186.0	-117.5
458.303500	-71.39	-36.00	35.39	150.0	V	175.0	-113.5

Above 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

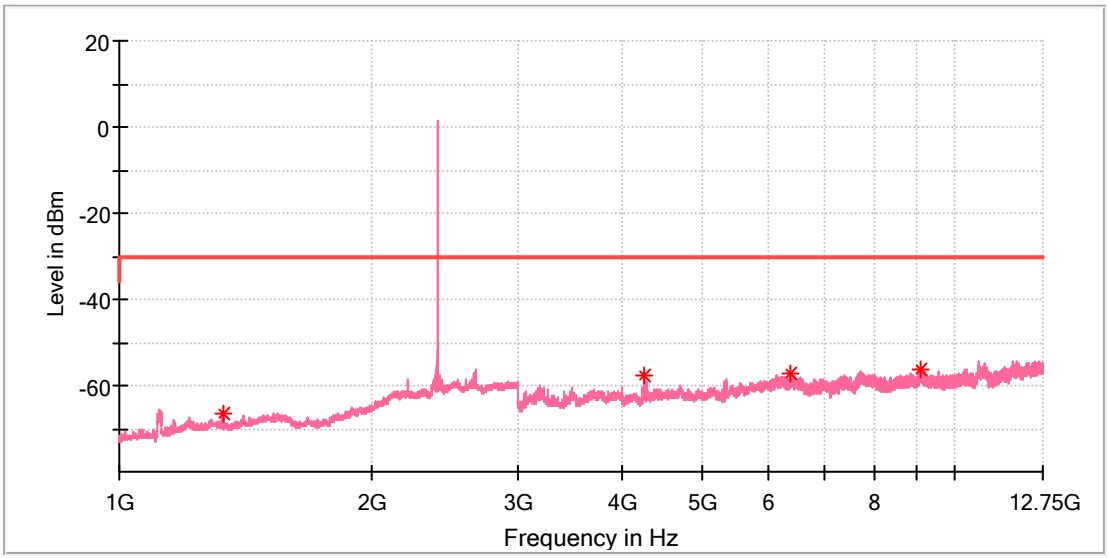


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3500.000000	-62.49	-30.00	32.49	150.0	H	66.0	-95.0
4792.500000	-61.21	-30.00	31.21	150.0	H	66.0	-92.8
7086.750000	-57.16	-30.00	27.16	150.0	H	359.0	-88.3
9905.839286	-56.66	-30.00	26.66	150.0	H	225.0	-87.8

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

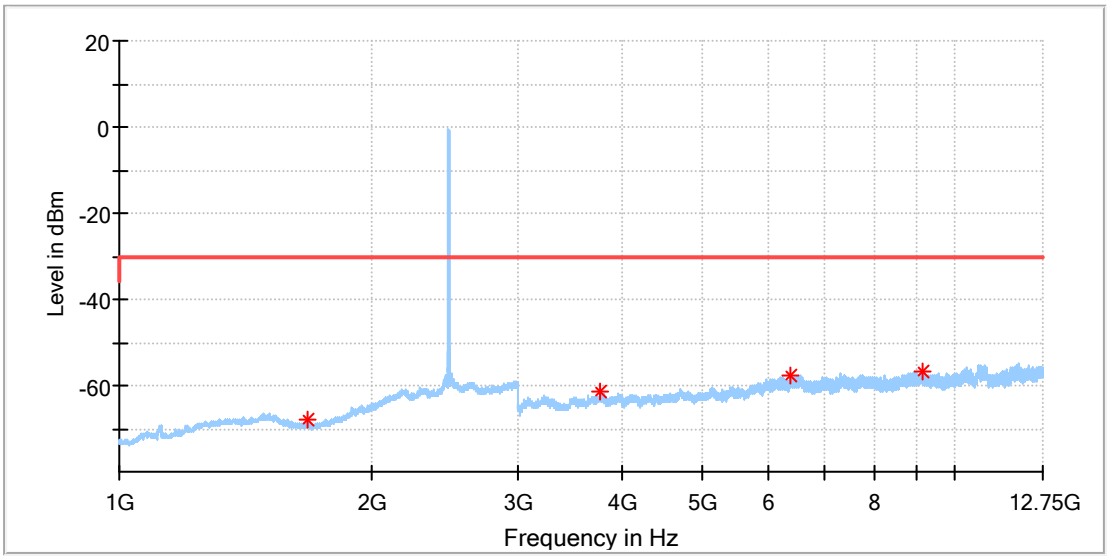


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1329.000000	-66.68	-30.00	36.68	150.0	V	174.0	-101.1
4260.500000	-57.84	-30.00	27.84	150.0	V	43.0	-94.6
6375.107143	-57.42	-30.00	27.42	150.0	V	213.0	-89.7
9105.482143	-56.27	-30.00	26.27	150.0	V	163.0	-87.1

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 H CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

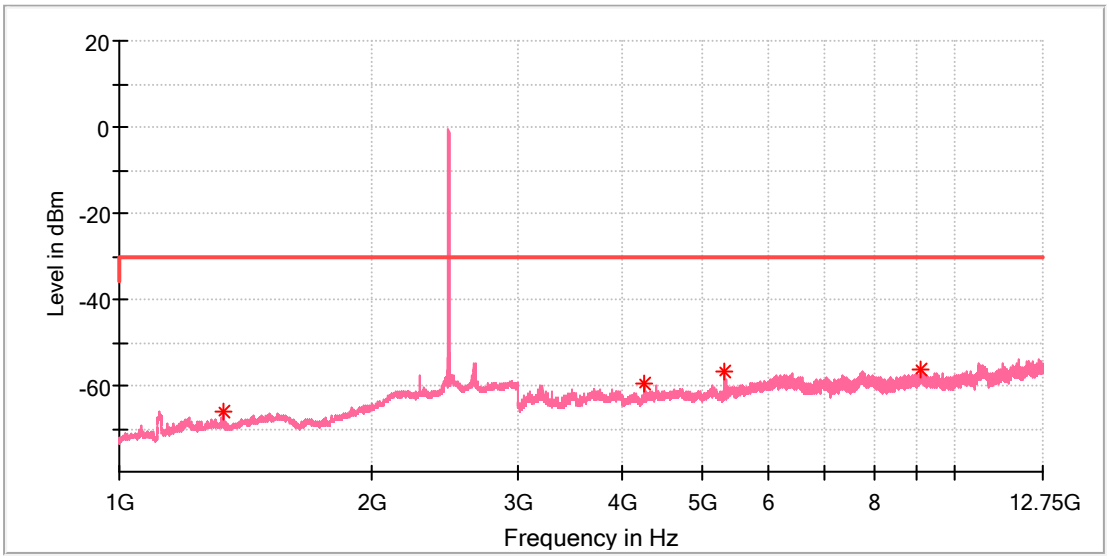


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1681.500000	-67.93	-30.00	37.93	150.0	H	46.0	-98.5
3759.000000	-61.35	-30.00	31.35	150.0	H	143.0	-94.3
6359.678572	-57.58	-30.00	27.58	150.0	H	301.0	-89.6
9164.785714	-56.58	-30.00	26.58	150.0	H	358.0	-87.9

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_DH5 H CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1333.000000	-66.11	-30.00	36.11	150.0	V	200.0	-101.2
4255.000000	-59.35	-30.00	29.35	150.0	V	236.0	-94.6
5308.500000	-56.73	-30.00	26.73	150.0	V	279.0	-92.2
9103.553572	-56.13	-30.00	26.13	150.0	V	77.0	-87.1

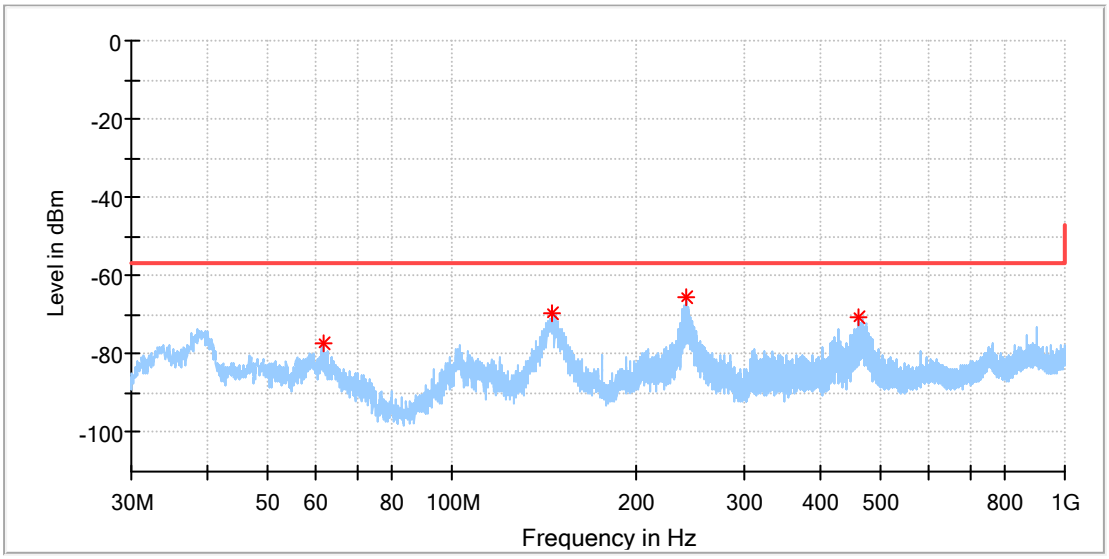
APPENDIX A.6. RECEIVER SPURIOUS EMISSIONS

Note: 1. This testing was carried out on different modes, but only the worst case was presented in this report.
2. Emissions far below the limits are not recorded.

Below 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

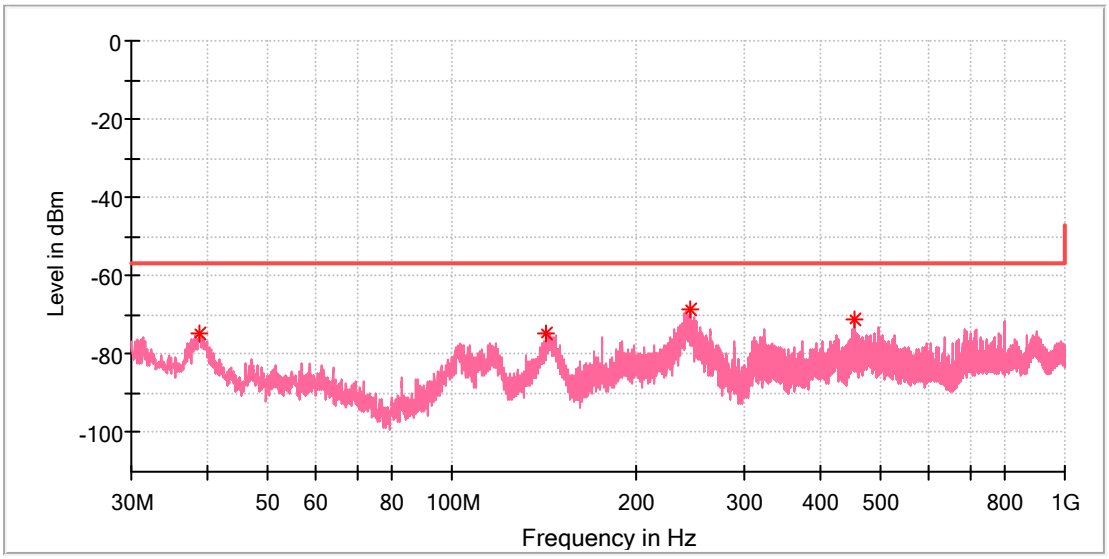


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.961500	-77.29	-57.00	20.29	150.0	H	197.0	-119.5
145.575500	-69.75	-57.00	12.75	150.0	H	0.0	-124.1
241.896500	-65.49	-57.00	8.49	150.0	H	121.0	-117.2
460.437500	-70.49	-57.00	13.49	150.0	H	136.0	-111.2

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



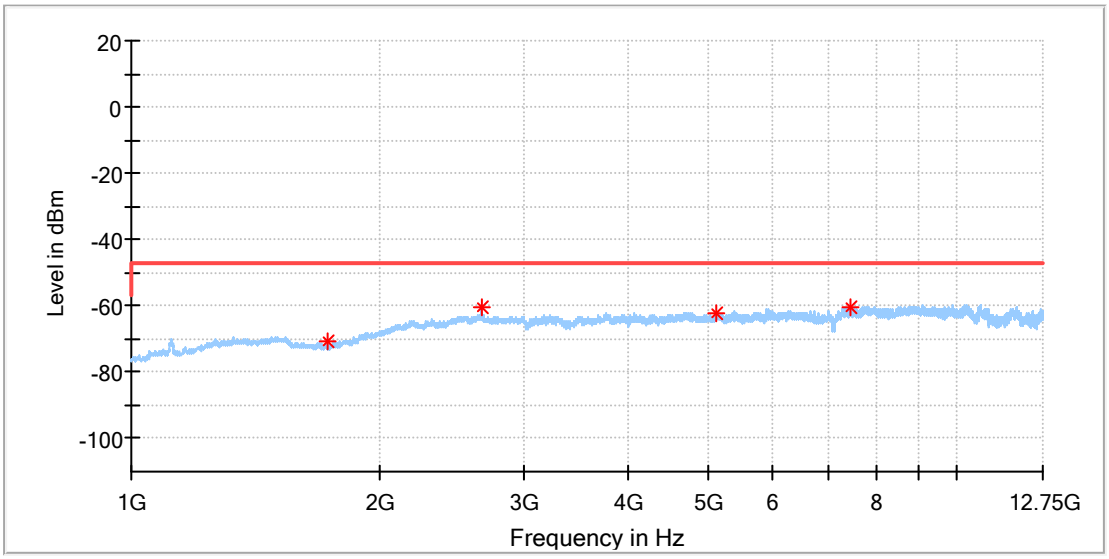
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.778500	-74.52	-57.00	17.52	150.0	V	230.0	-118.4
142.374500	-74.74	-57.00	17.74	150.0	V	242.0	-123.6
244.467000	-68.70	-57.00	11.70	150.0	V	352.0	-117.4
455.345000	-70.95	-57.00	13.95	150.0	V	204.0	-113.6

Above 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

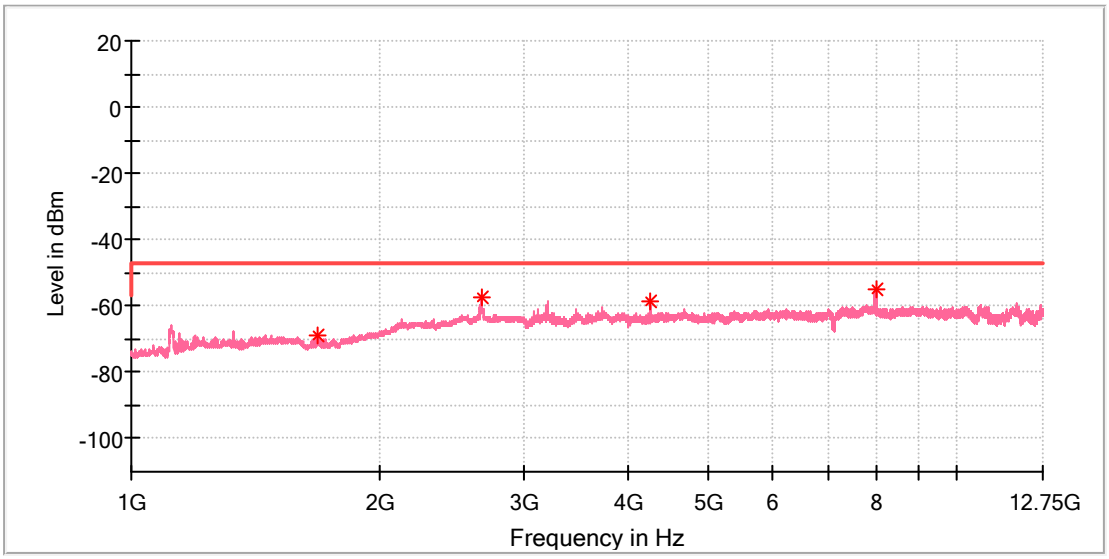


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1727.500000	-70.95	-47.00	23.95	150.0	H	256.0	-98.1
2665.500000	-60.62	-47.00	13.62	150.0	H	200.0	-92.2
5135.791667	-62.16	-47.00	15.16	150.0	H	217.0	-91.8
7439.500000	-60.68	-47.00	13.68	150.0	H	7.0	-88.7

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_DH5 L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1684.500000	-69.03	-47.00	22.03	150.0	V	205.0	-97.7
2666.000000	-57.23	-47.00	10.23	150.0	V	121.0	-91.7
4250.166667	-58.76	-47.00	11.76	150.0	V	134.0	-94.6
7999.041667	-54.79	-47.00	7.79	150.0	V	328.0	-88.8

APPENDIX A.7. RECEIVER BLOCKING

GFSK

Receiver Blocking (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

Definition: Receiver blocking is a measure of the ability of the equipment to receive a wanted signal on its operating channel without exceeding a given degradation in the presence of an unwanted signal (blocking signal) on frequencies other than those of the operating band.

Summary

DUT Frequency (MHz)	Receiver Category	Companion RMS burst power (dBm)	Result
2402.000000	2	---	PASS

Measurement Overview

Blocking Frequency (MHz)	Result no Offset	Result
2380.000000	PASS	PASS
2300.000000	PASS	PASS

Measurements

#	Blocking Frequency (MHz)	Blocking Frequency Offset (MHz)	Generator Frequency (MHz)	Blocking Level at DUT (dBm)	Generator Level (dBm)	Attenuation Generator to DUT (dB)
1	2380.000000	0.000000	2380.000000	-35.4	-0.6	34.8
2	2380.000000	1.014926	---	---	---	---
3	2380.000000	-1.014926	---	---	---	---
4	2300.000000	0.000000	2300.000000	-35.4	-0.9	34.5
5	2300.000000	1.014926	---	---	---	---
6	2300.000000	-1.014926	---	---	---	---

(continuation of the "Measurements" table from column 7 ...)

#	Level of Wanted Signal at DUT (dBm)	Wanted Level Offset (dB)	Attenuation Companion to DUT (dB)	Result
1	-70.3	0.0	47.2	PASS
2	-70.3	0.0	47.2	PASS

DUT Monitoring

#	Blocking Frequency (MHz)	Blocking Frequency Offset (MHz)	Name	Value	Limit Min	Limit Max	Result
1	2380.000000	0.000000	PER	0.000	---	10.000	PASS
2	2300.000000	0.000000	PER	0.199	---	10.000	PASS

Receiver Blocking (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

Definition: Receiver blocking is a measure of the ability of the equipment to receive a wanted signal on its operating channel without exceeding a given degradation in the presence of an unwanted signal (blocking signal) on frequencies other than those of the operating band.

Summary

DUT Frequency (MHz)	Receiver Category	Companion RMS burst power (dBm)	Result
2480.000000	2	---	PASS

Measurement Overview

Blocking Frequency (MHz)	Result no Offset	Result
2504.000000	PASS	PASS
2584.000000	PASS	PASS

Measurements

#	Blocking Frequency (MHz)	Blocking Frequency Offset (MHz)	Generator Frequency (MHz)	Blocking Level at DUT (dBm)	Generator Level (dBm)	Attenuation Generator to DUT (dB)
1	2504.000000	0.000000	2504.000000	-31.3	4.2	35.5
2	2504.000000	1.014926	---	---	---	---
3	2504.000000	-1.014926	---	---	---	---
4	2584.000000	0.000000	2584.000000	-31.3	3.7	35.0
5	2584.000000	1.014926	---	---	---	---
6	2584.000000	-1.014926	---	---	---	---

(continuation of the "Measurements" table from column 7 ...)

#	Level of Wanted Signal at DUT (dBm)	Wanted Level Offset (dB)	Attenuation Companion to DUT (dB)	Result
1	-66.2	0.0	48.3	PASS
2	-66.2	0.0	48.3	PASS

DUT Monitoring

#	Blocking Frequency (MHz)	Blocking Frequency Offset (MHz)	Name	Value	Limit Min	Limit Max	Result
1	2504.000000	0.000000	PER	0.100	---	10.000	PASS
2	2584.000000	0.000000	PER	0.298	---	10.000	PASS

Appendix B: Test Results of Bluetooth Low Energy

APPENDIX B: TEST RESULTS OF BLUETOOTH LOW ENERGY 1

APPENDIX B.1: POWER SPECTRAL DENSITY 2
APPENDIX B.2: OCCUPIED CHANNEL BANDWIDTH 8
APPENDIX B.3: TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN 14
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APPENDIX B.5: RECEIVER SPURIOUS EMISSIONS 28
APPENDIX B.6: RECEIVER BLOCKING 32

APPENDIX B.1: POWER SPECTRAL DENSITY

Power Spectral Density (2402 MHz; 10.000 dBm; 1 MHz)

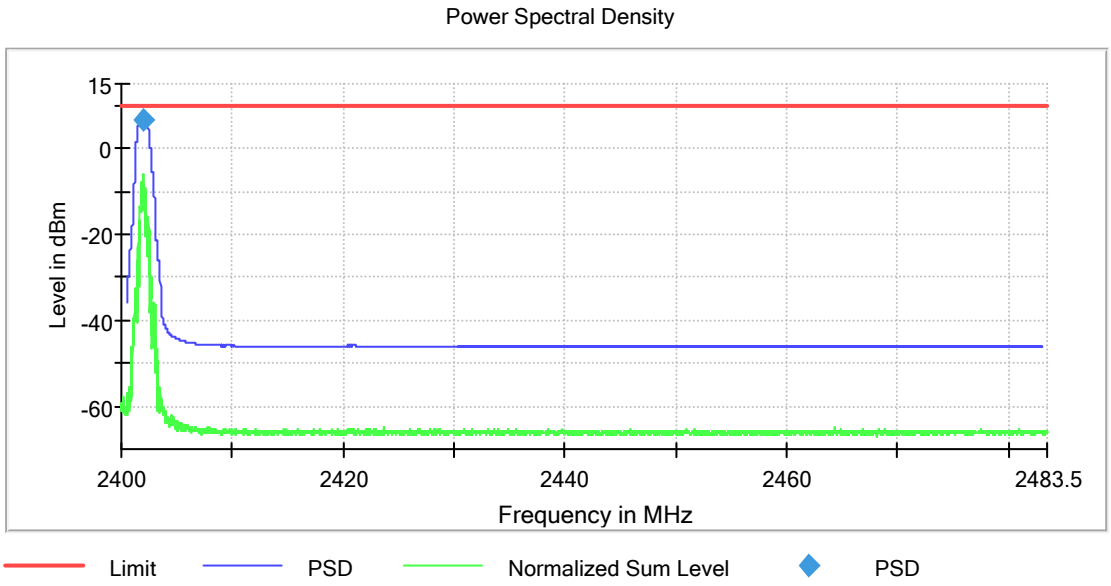
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.074752	6.766	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Power Spectral Density (2440 MHz; 10.000 dBm; 1 MHz)

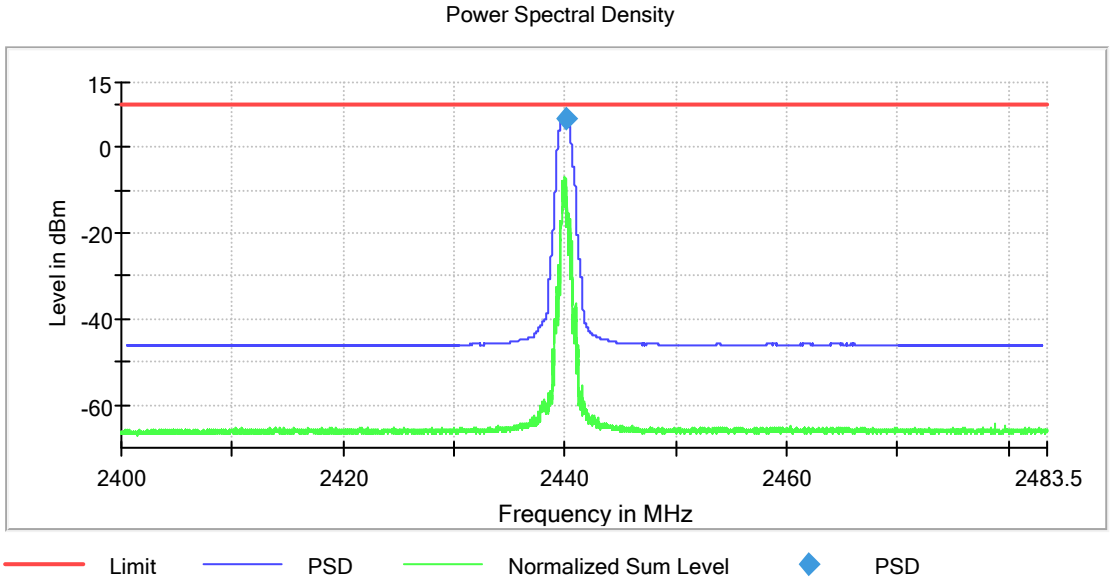
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.060202	6.469	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Power Spectral Density (2480 MHz; 10.000 dBm; 1 MHz)

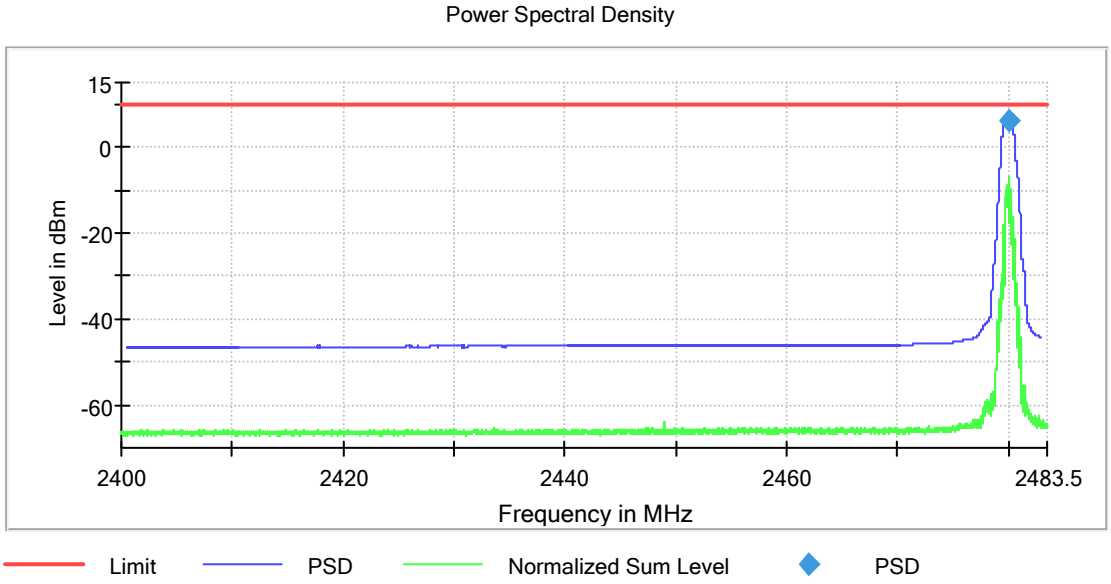
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.045414	6.133	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Power Spectral Density (2402 MHz; 10.000 dBm; 2 MHz)

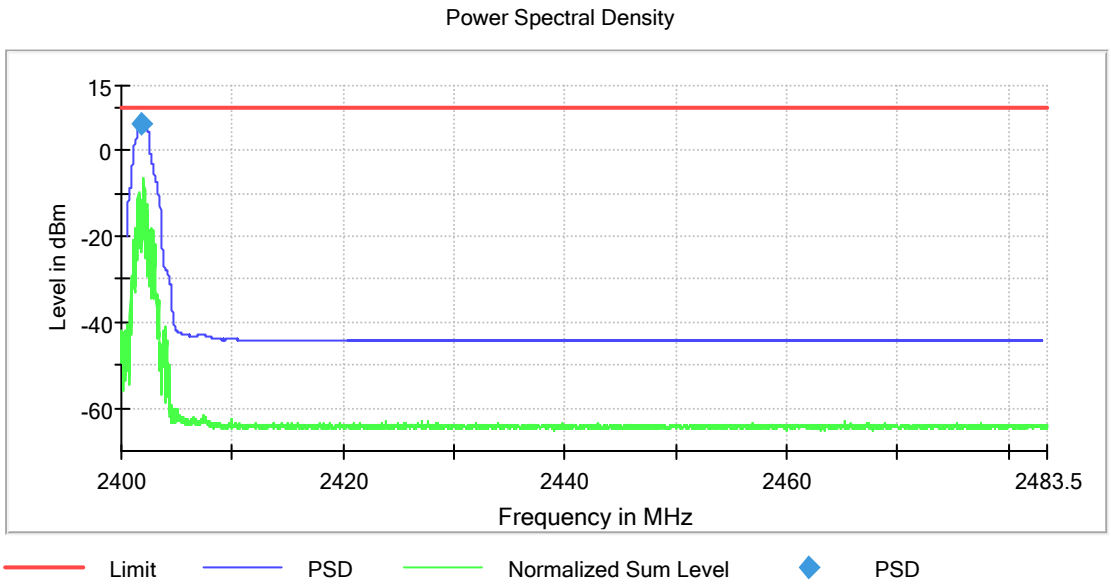
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.874775	6.201	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Power Spectral Density (2440 MHz; 10.000 dBm; 2 MHz)

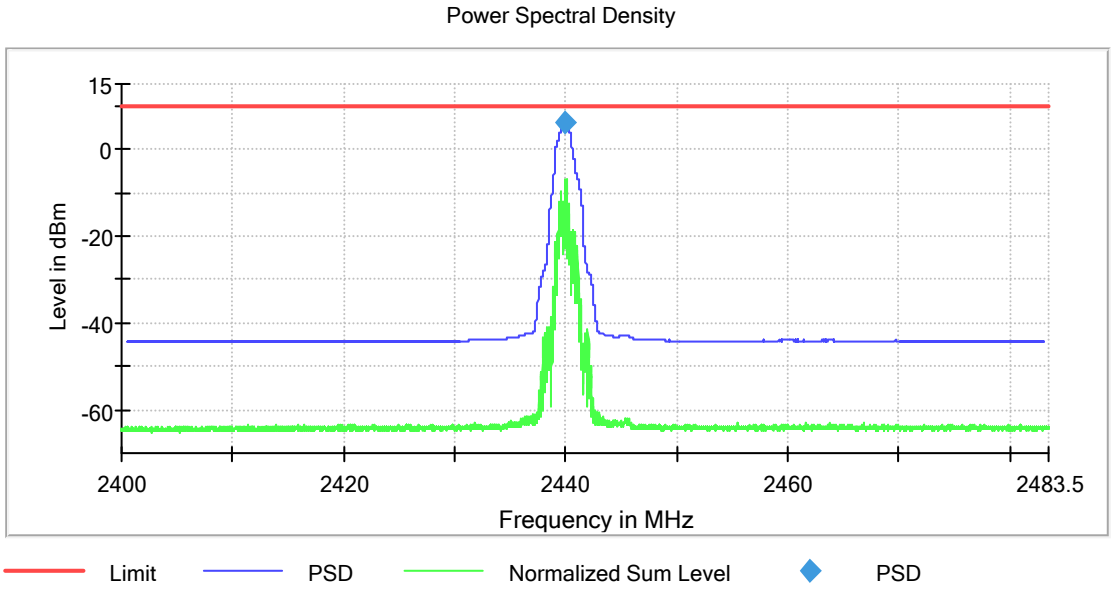
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.920219	5.932	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Power Spectral Density (2480 MHz; 10.000 dBm; 2 MHz)

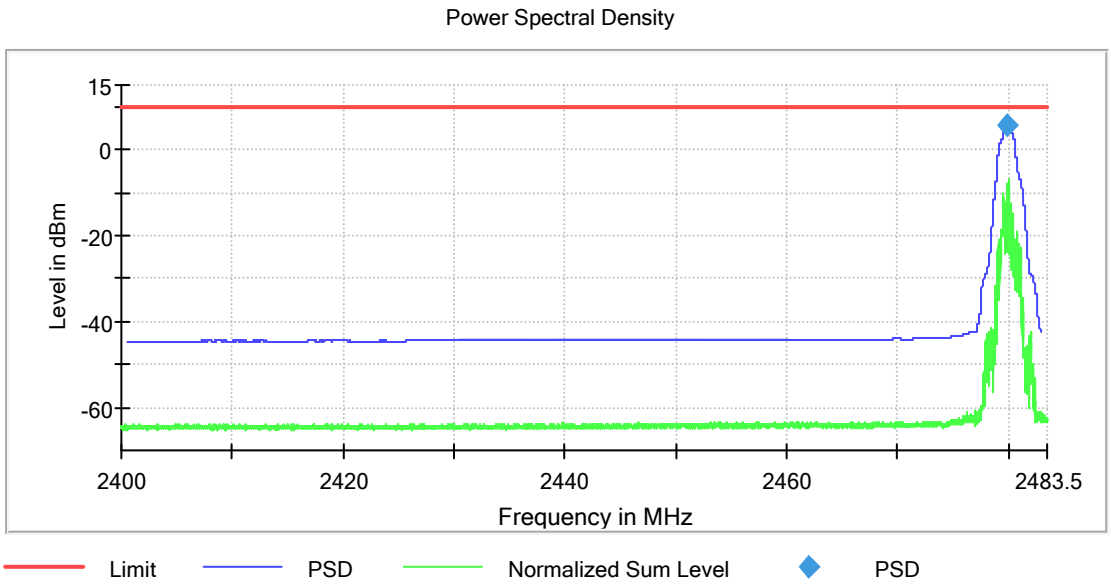
Definition: The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.915429	5.554	10.0	PASS

Ports

Port	State
1	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	8351	~ 8351
Sweeptime	168.000 s	167.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	2	2
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

APPENDIX B.2: OCCUPIED CHANNEL BANDWIDTH

Occupied Channel Bandwidth (2402 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

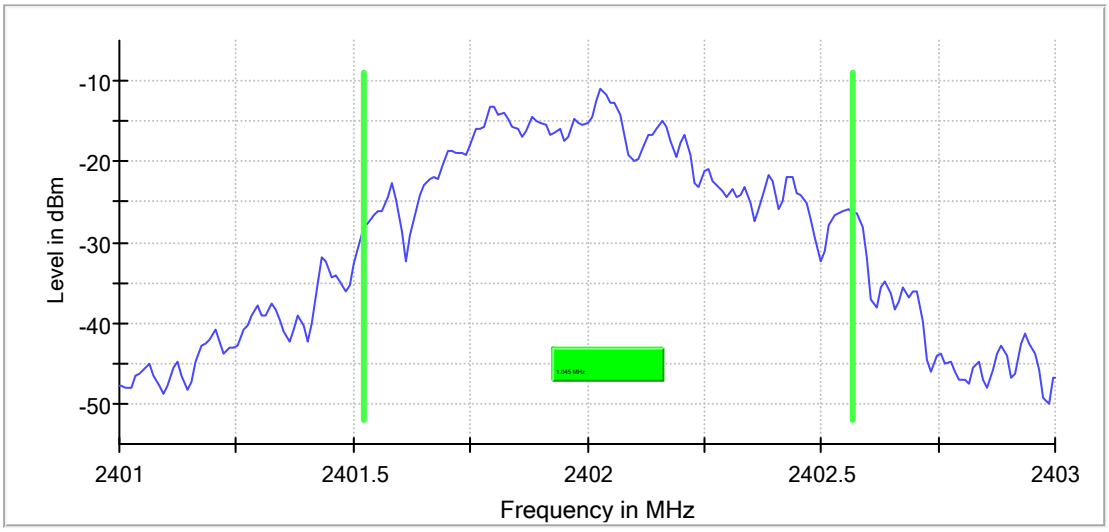
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	1.044776	---	---	2401.522388	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2402.567164	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.02 dB	0.50 dB

Occupied Channel Bandwidth (2440 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

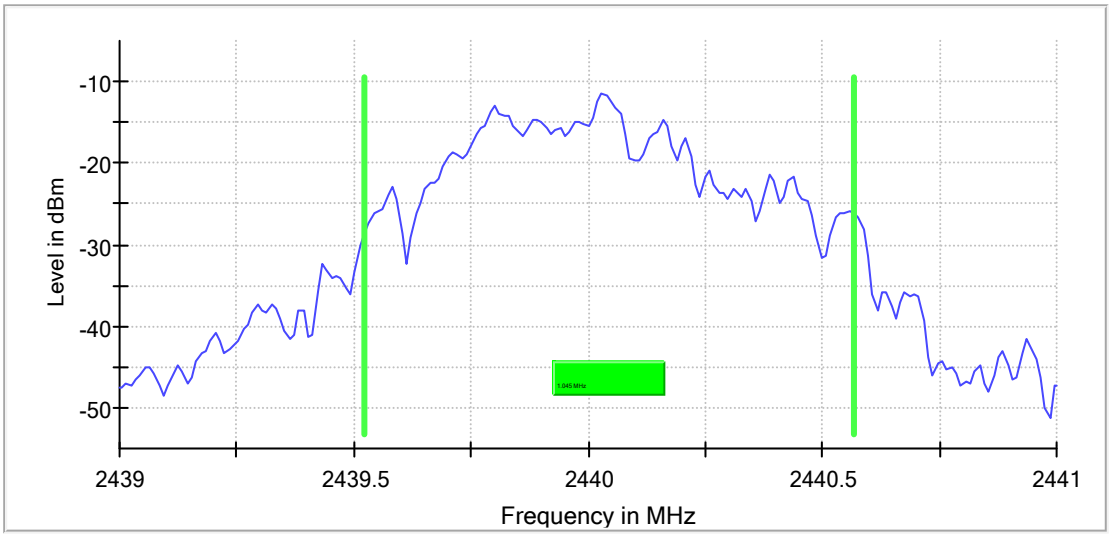
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2440.000000	1.044776	---	---	2439.522388	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2440.000000	2440.567164	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.16 dB	0.50 dB

Occupied Channel Bandwidth (2480 MHz; 10.000 dBm; 1 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

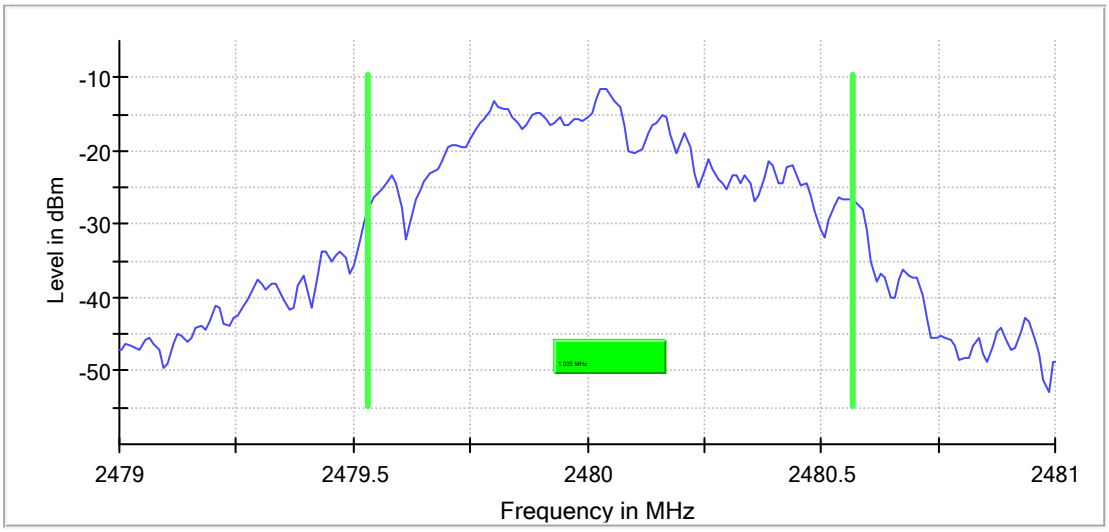
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	1.034826	---	---	2479.532338	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2480.567164	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	201	~ 201
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.50 dB

Occupied Channel Bandwidth (2402 MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

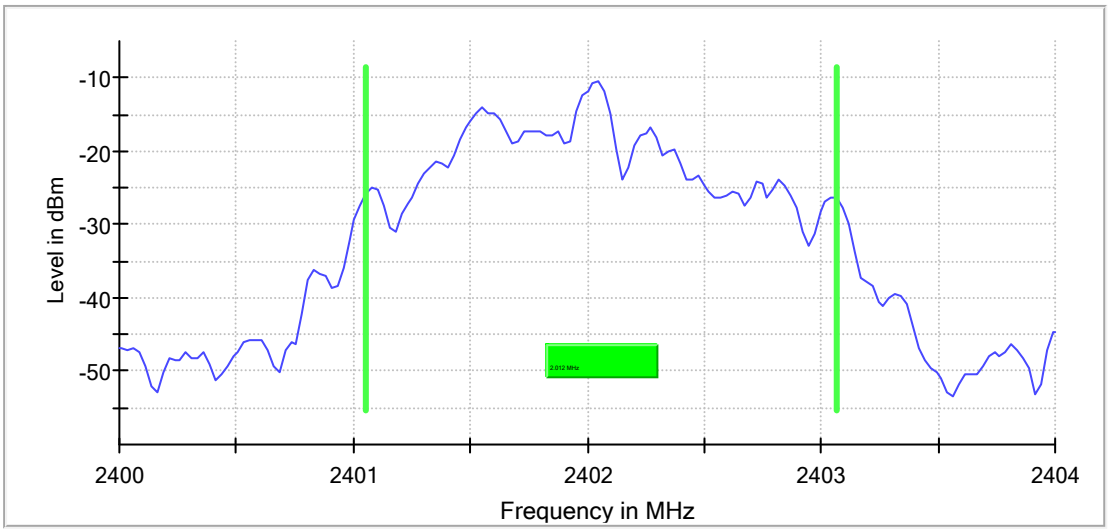
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2402.000000	2.012422	---	---	2401.055901	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2402.000000	2403.068323	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.40600 GHz	2.40600 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.50 dB

Occupied Channel Bandwidth (2440 MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

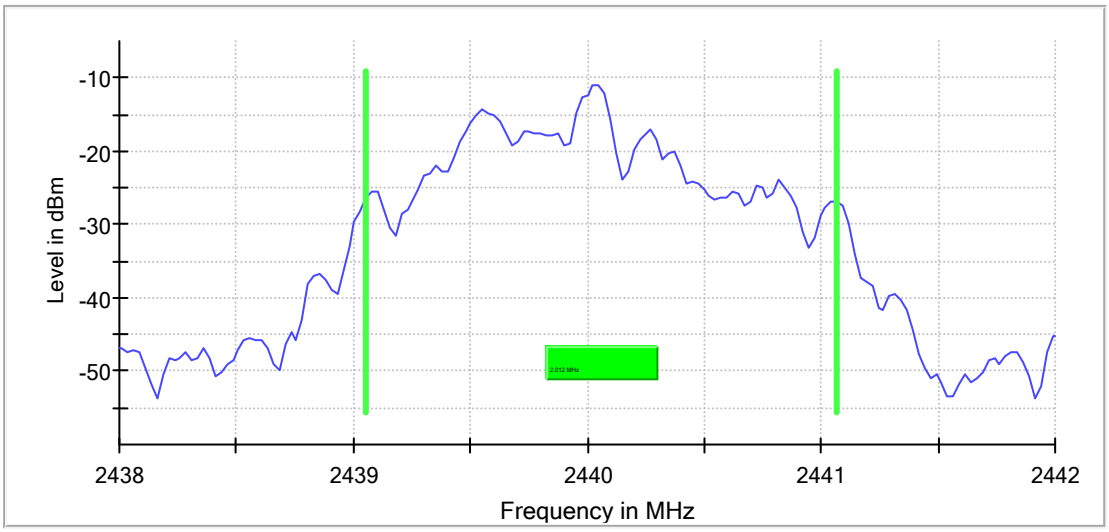
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2440.000000	2.012422	---	---	2439.055901	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2440.000000	2441.068323	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.50 dB

Occupied Channel Bandwidth (2480MHz; 10.000 dBm; 2 MHz)

Definition: The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

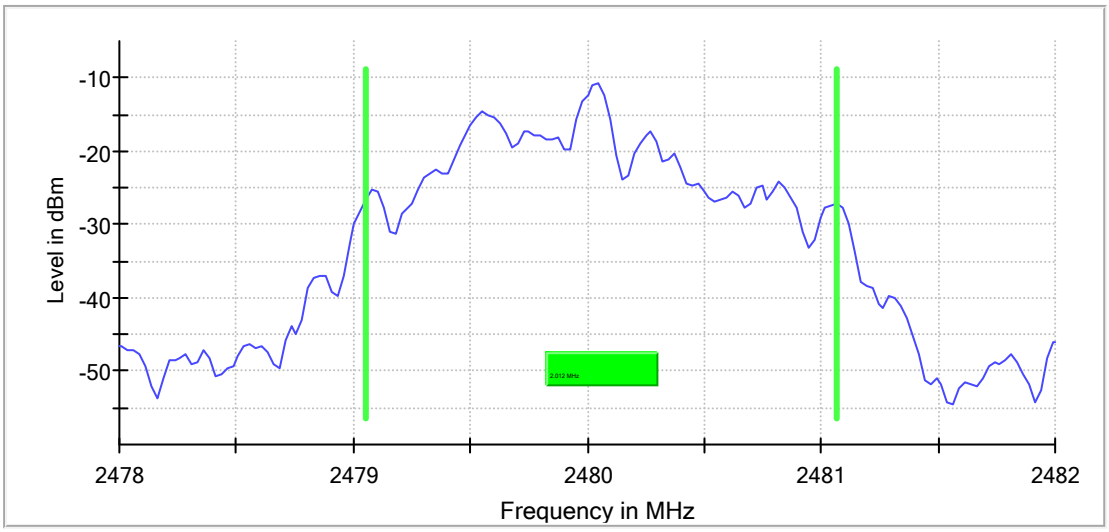
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
2480.000000	2.012422	---	---	2479.055901	2400.000000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
2480.000000	2481.068323	2483.500000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47600 GHz	2.47600 GHz
Stop Frequency	2.48000 GHz	2.48000 GHz
Span	4.000 MHz	4.000 MHz
RBW	50.000 kHz	>= 40.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	161	~ 161
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.50 dB

APPENDIX B.3: TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Tx unwanted emissions in the out-of-band domain (2402 MHz; 10.000 dBm; 1 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

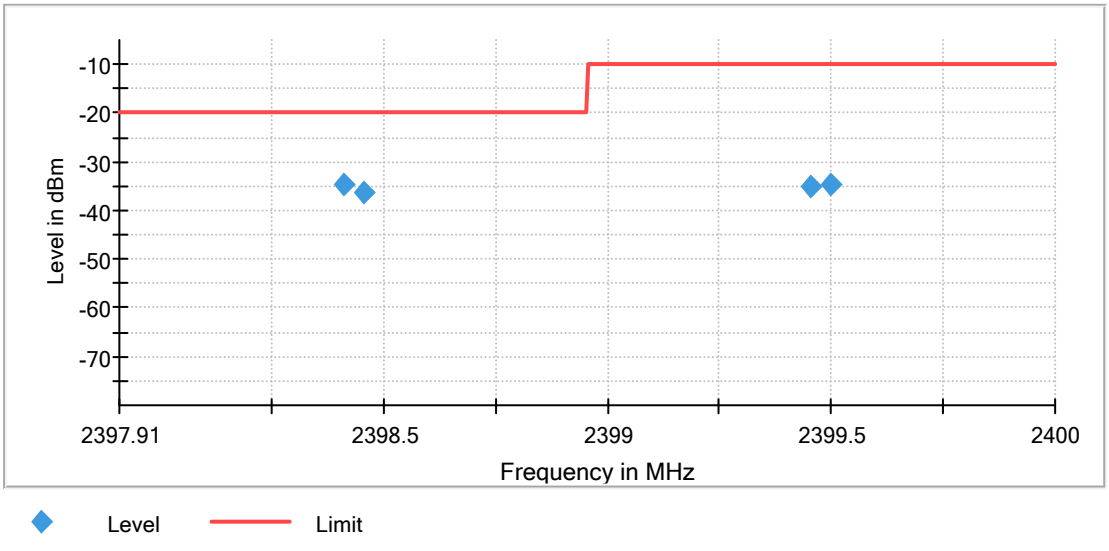
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
2402.000000	0	8	PASS

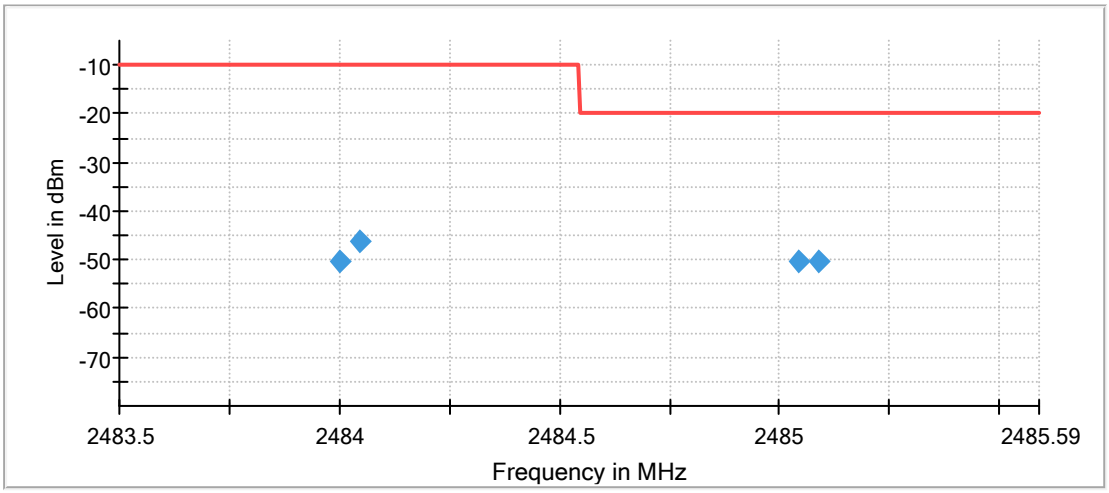
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2398.410448	-34.6	-20.0	PASS
2398.455224	-36.1	-20.0	PASS
2399.455224	-35.0	-10.0	PASS
2399.500000	-34.7	-10.0	PASS
2484.000000	-50.4	-10.0	PASS
2484.044776	-46.4	-10.0	PASS
2485.044776	-50.5	-20.0	PASS
2485.089552	-50.4	-20.0	PASS

Out of band low



Out of band high



Level Limit

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48509 GHz	2.48509 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	5000	~ 5000
Sweeptime	866.800 µs	866.800 µs
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	45.000 %	-1.000 %
Trigger Offset	433.400 µs	433.400 µs

Tx unwanted emissions in the out-of-band domain (2480 MHz; 10.000 dBm; 1 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

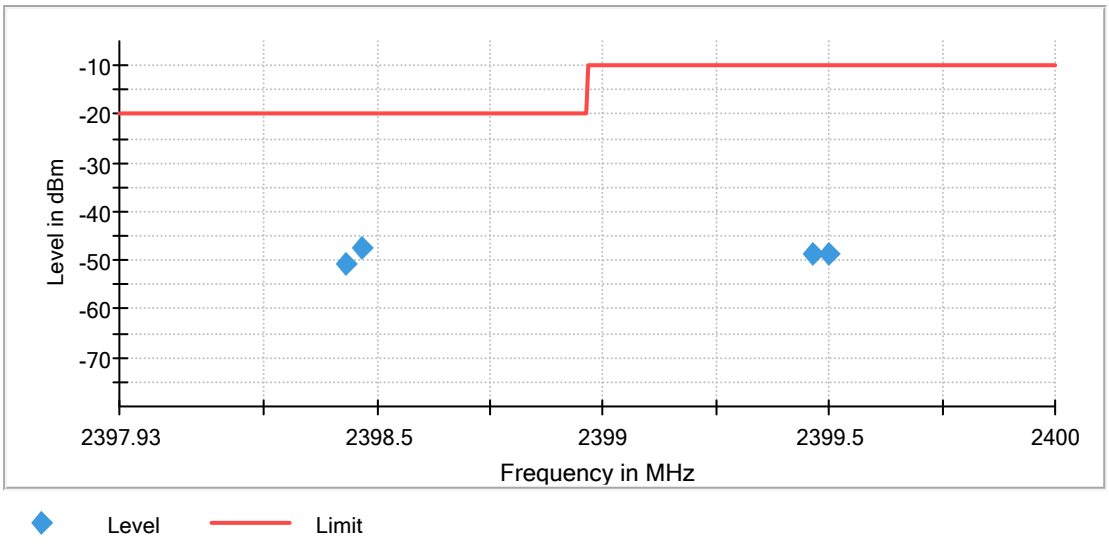
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
2480.000000	0	8	PASS

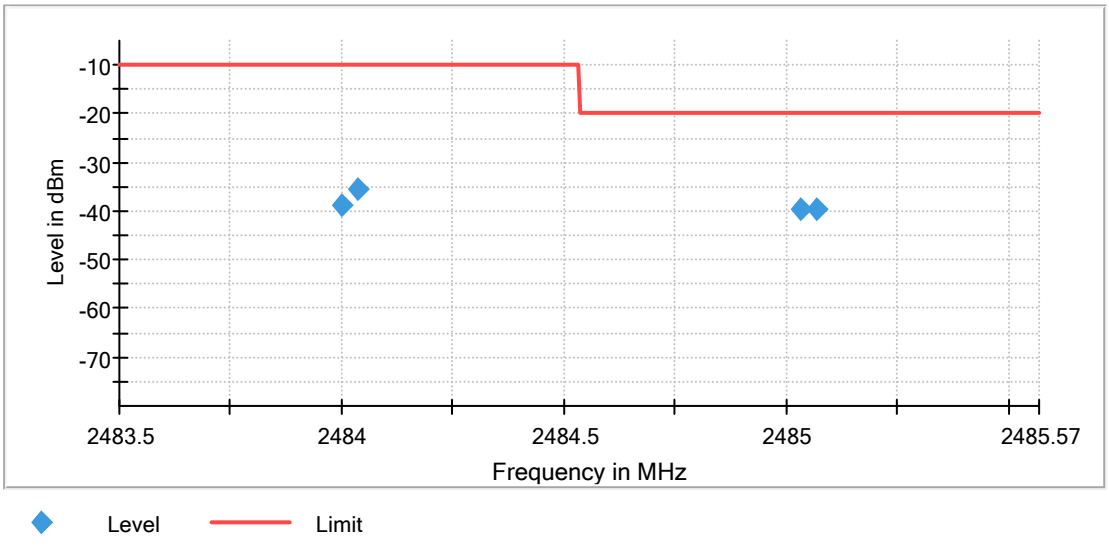
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2398.430348	-50.6	-20.0	PASS
2398.465174	-47.6	-20.0	PASS
2399.465174	-48.7	-10.0	PASS
2399.500000	-48.6	-10.0	PASS
2484.000000	-38.8	-10.0	PASS
2484.034826	-35.5	-10.0	PASS
2485.034826	-39.7	-20.0	PASS
2485.069652	-39.7	-20.0	PASS

Out of band low



Out of band high



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48507 GHz	2.48507 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	5000	~ 5000
Sweeptime	866.800 µs	866.800 µs
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	45.000 %	-1.000 %
Trigger Offset	433.400 µs	433.400 µs

Tx unwanted emissions in the out-of-band domain (2402 MHz; 10.000 dBm; 2 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

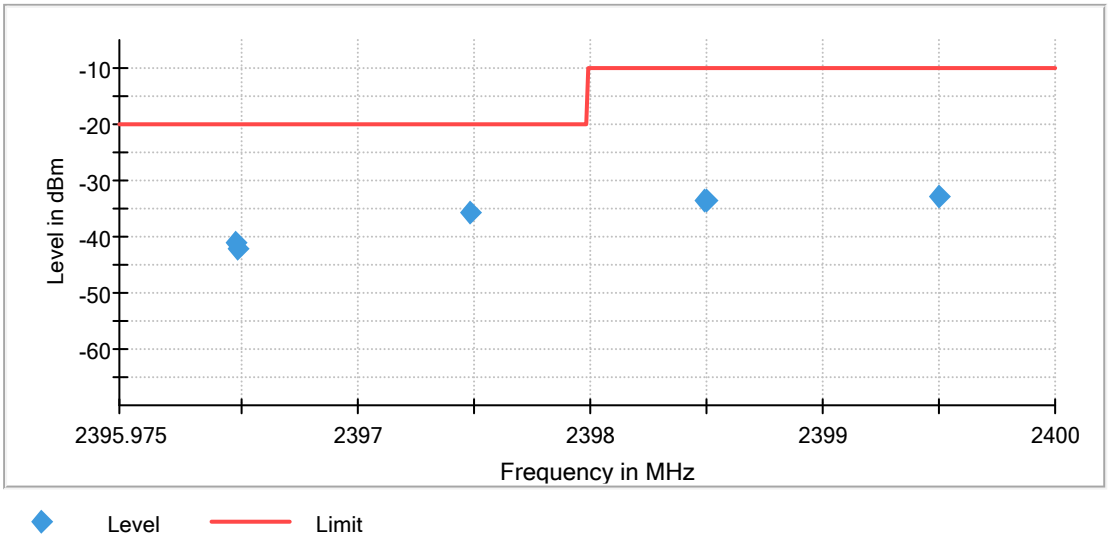
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
2402.000000	0	12	PASS

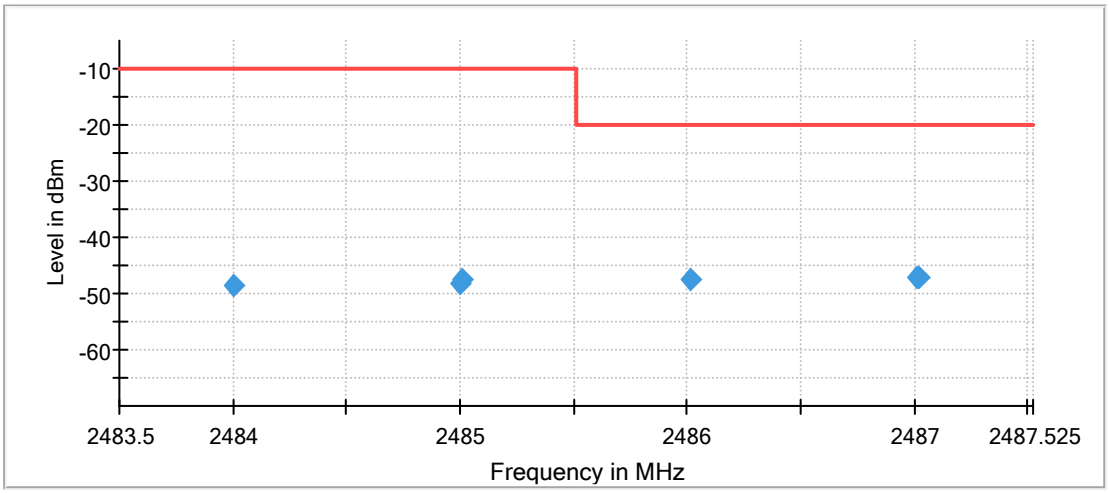
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2396.475156	-41.1	-20.0	PASS
2396.487578	-42.1	-20.0	PASS
2397.487578	-35.6	-20.0	PASS
2398.487578	-33.6	-10.0	PASS
2398.500000	-33.5	-10.0	PASS
2399.500000	-32.8	-10.0	PASS
2484.000000	-48.5	-10.0	PASS
2485.000000	-48.1	-10.0	PASS
2485.012422	-47.5	-10.0	PASS
2486.012422	-47.5	-20.0	PASS
2487.012422	-47.1	-20.0	PASS
2487.024844	-47.1	-20.0	PASS

Out of band low



Out of band high



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48707 GHz	2.48707 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	5000	~ 5000
Sweeptime	431.200 µs	431.200 µs
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	44.000 %	-1.000 %
Trigger Offset	215.600 µs	215.600 µs

Tx unwanted emissions in the out-of-band domain (2480 MHz; 10.000 dBm; 2 MHz)

Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

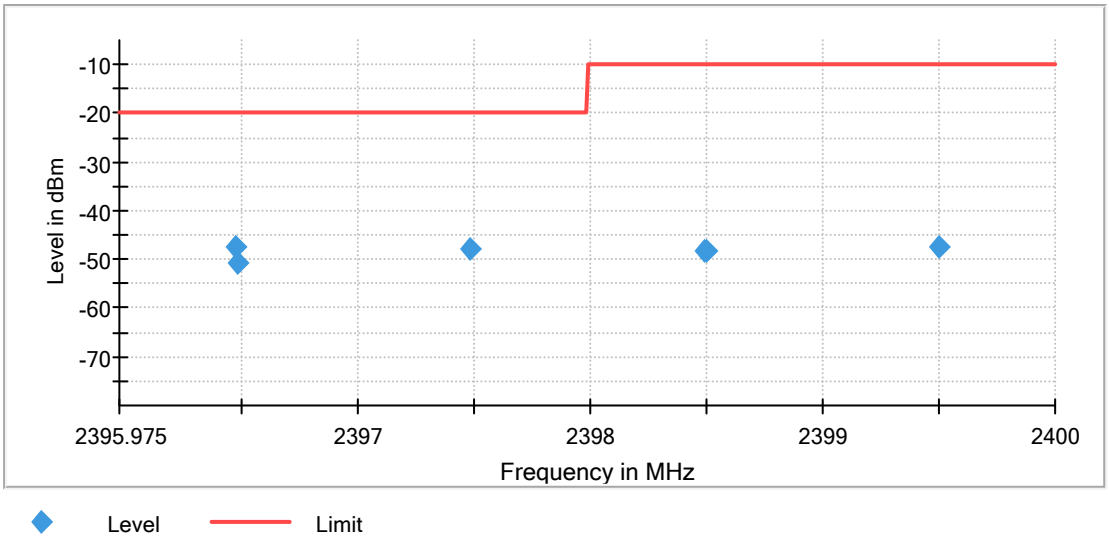
Summary

DUT Frequency (MHz)	FAIL	PASS	Result
2480.000000	0	12	PASS

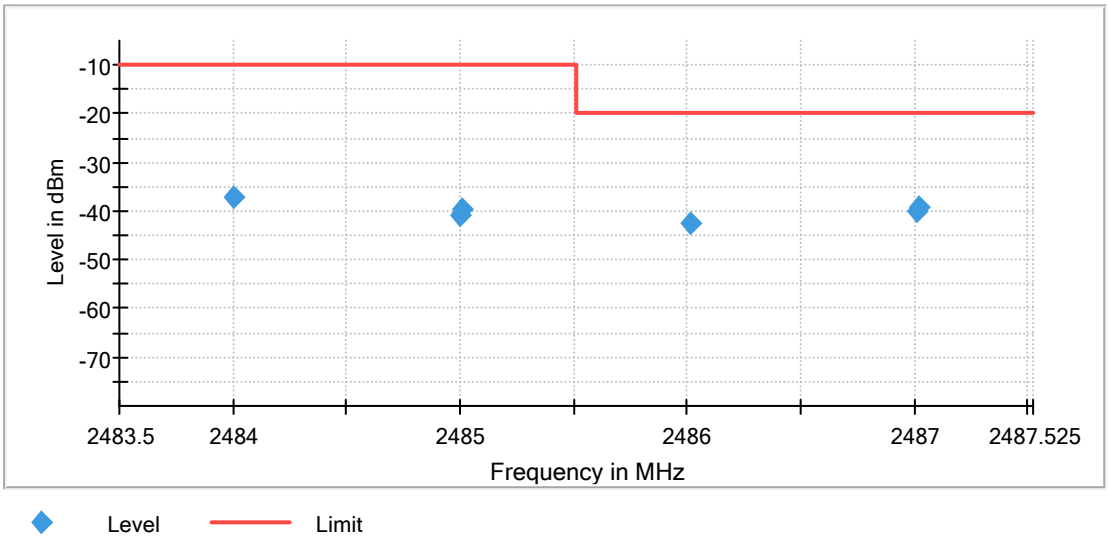
Measurements

Frequency (MHz)	level (dBm)	Limit (dBm)	Result
2396.475156	-47.4	-20.0	PASS
2396.487578	-50.8	-20.0	PASS
2397.487578	-47.9	-20.0	PASS
2398.487578	-48.4	-10.0	PASS
2398.500000	-48.2	-10.0	PASS
2399.500000	-47.4	-10.0	PASS
2484.000000	-37.0	-10.0	PASS
2485.000000	-40.9	-10.0	PASS
2485.012422	-39.6	-10.0	PASS
2486.012422	-42.7	-20.0	PASS
2487.012422	-40.1	-20.0	PASS

Out of band low



Out of band high



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.48707 GHz	2.48707 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	5000	~ 5000
Sweeptime	431.200 µs	431.200 µs
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	up	up
Trigger Level	44.000 %	-1.000 %
Trigger Offset	215.600 µs	215.600 µs

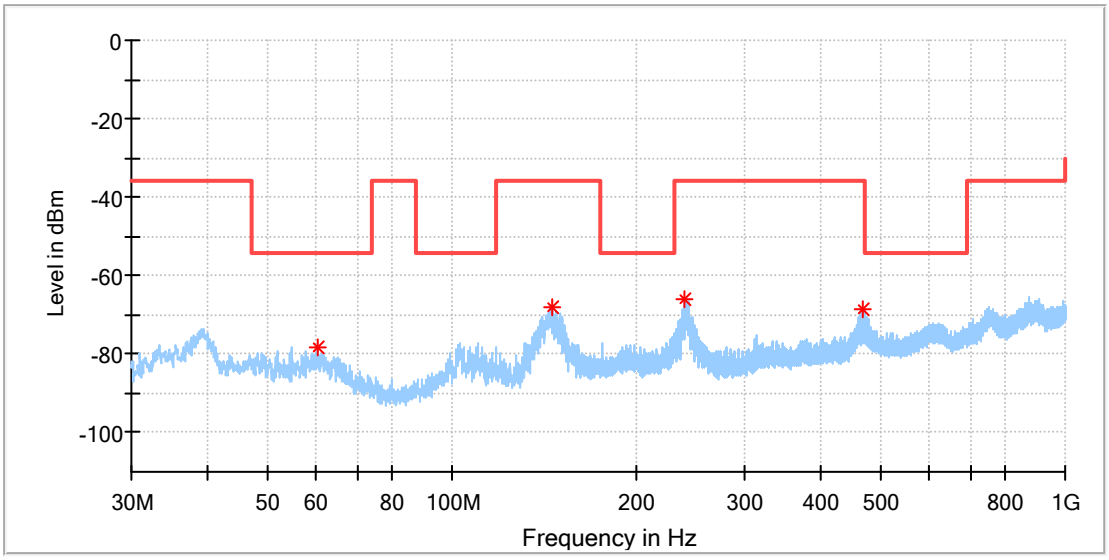
APPENDIX B.4: TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Note: 1. This testing was carried out on different modes, but only the worst case was presented in this report.
2. The highest waveform in the figure is Bluetooth Fundamental.
3. Emissions far below the limits are not recorded.

Below 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

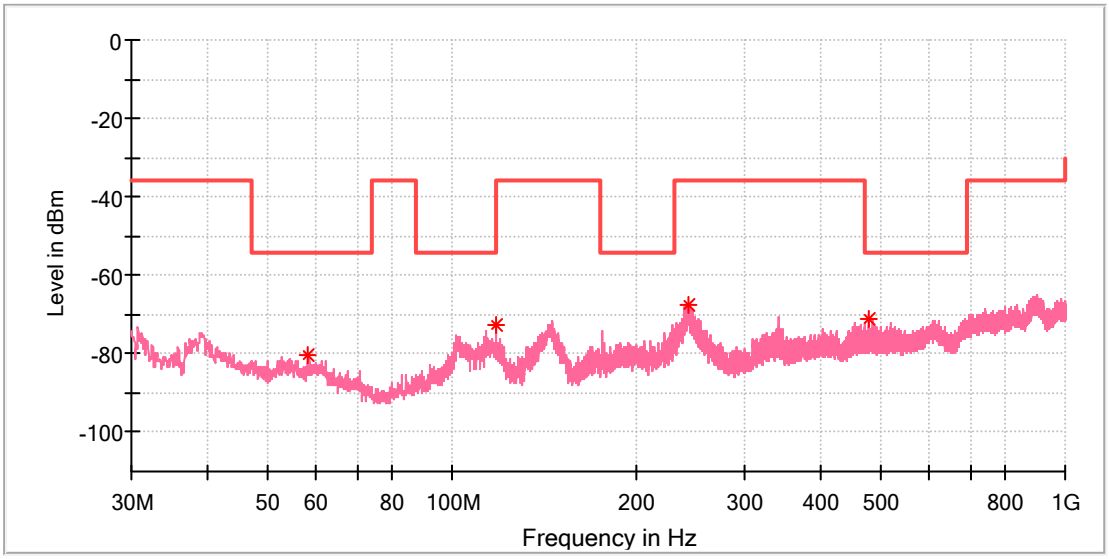


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.361000	-78.18	-54.00	24.18	150.0	H	261.0	-118.7
145.236000	-68.29	-36.00	32.29	150.0	H	0.0	-124.0
240.102000	-66.10	-36.00	30.10	150.0	H	96.0	-117.2
467.033500	-68.45	-36.00	32.45	150.0	H	64.0	-110.7

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



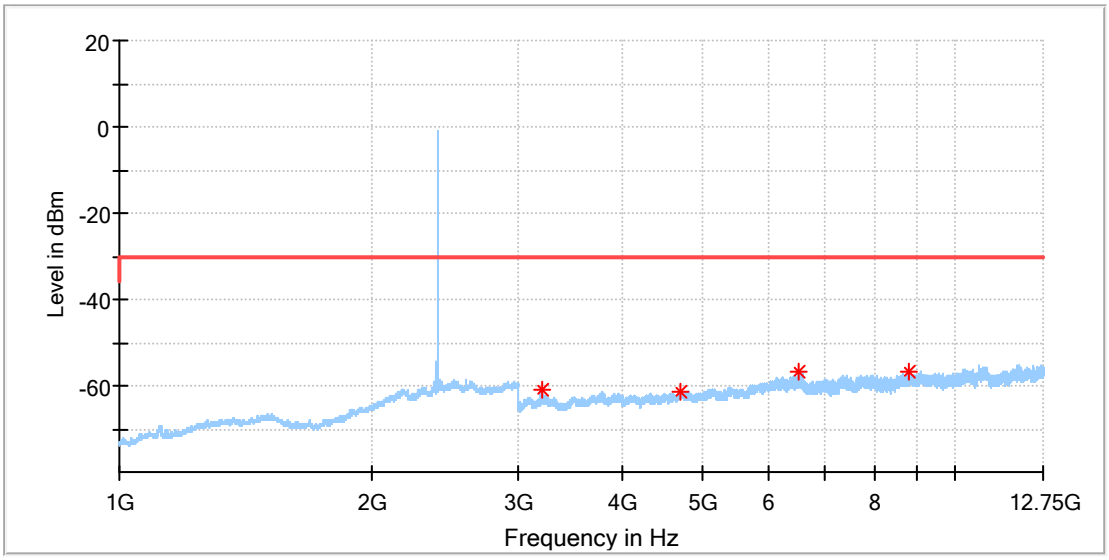
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
58.372500	-80.41	-54.00	26.41	150.0	V	22.0	-119.7
118.027500	-72.66	-36.00	36.66	150.0	V	350.0	-121.2
243.545500	-67.53	-36.00	31.53	150.0	V	350.0	-117.4
476.927500	-71.27	-54.00	17.27	150.0	V	194.0	-113.6

Above 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

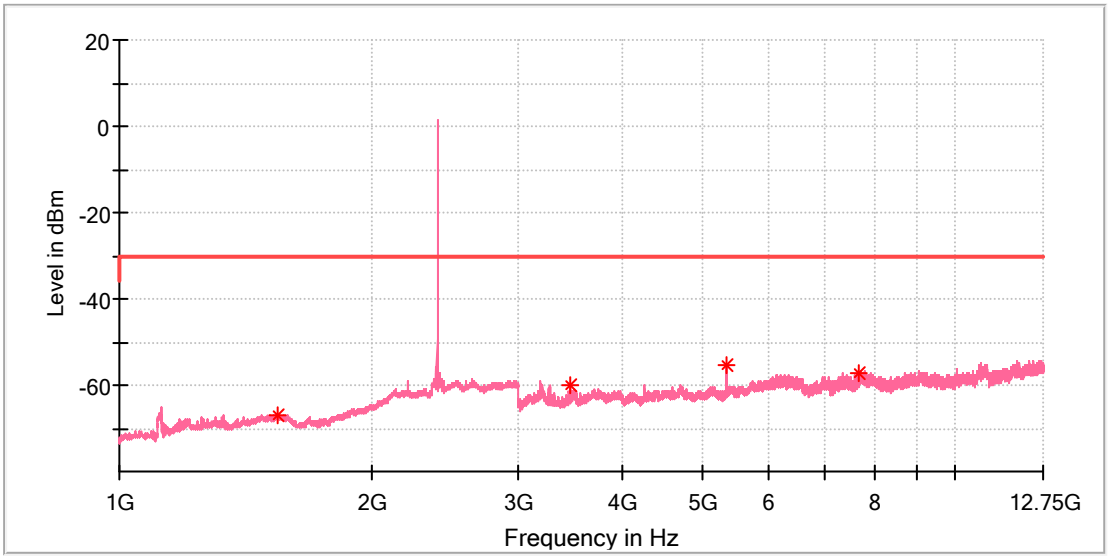


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3198.500000	-60.74	-30.00	30.74	150.0	H	242.0	-95.1
4695.000000	-61.26	-30.00	31.26	150.0	H	108.0	-92.9
6515.410714	-56.76	-30.00	26.76	150.0	H	358.0	-89.1
8808.000000	-56.62	-30.00	26.62	150.0	H	278.0	-88.1

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

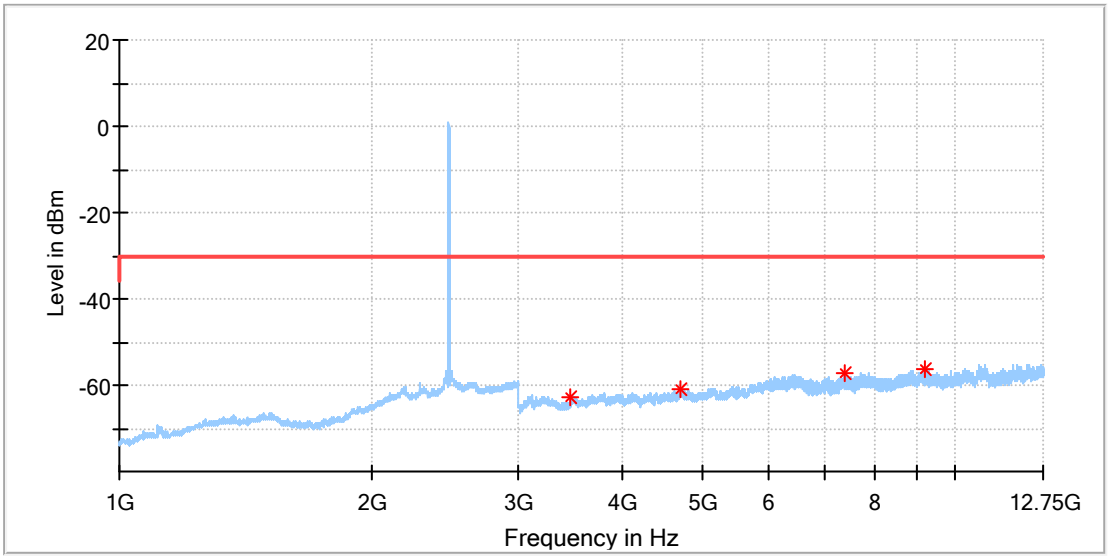


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1549.000000	-66.99	-30.00	36.99	150.0	V	169.0	-98.5
3455.500000	-60.18	-30.00	30.18	150.0	V	3.0	-95.0
5327.500000	-55.58	-30.00	25.58	150.0	V	276.0	-92.1
7691.839286	-57.00	-30.00	27.00	150.0	V	286.0	-88.9

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

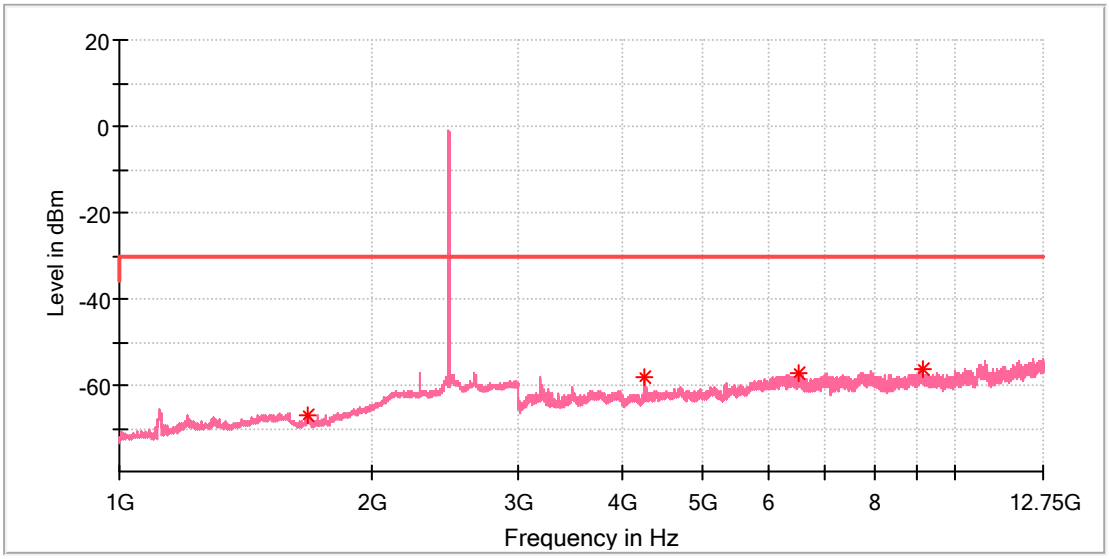


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3469.500000	-62.57	-30.00	32.57	150.0	H	225.0	-95.3
4690.500000	-60.90	-30.00	30.90	150.0	H	86.0	-92.9
7360.607143	-57.26	-30.00	27.26	150.0	H	127.0	-88.3
9180.696429	-56.41	-30.00	26.41	150.0	H	5.0	-88.1

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	TX_BLE H CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1684.500000	-66.88	-30.00	36.88	150.0	V	183.0	-97.7
4253.000000	-58.37	-30.00	28.37	150.0	V	339.0	-94.6
6508.660714	-57.43	-30.00	27.43	150.0	V	3.0	-89.7
9161.410714	-56.30	-30.00	26.30	150.0	V	26.0	-87.9

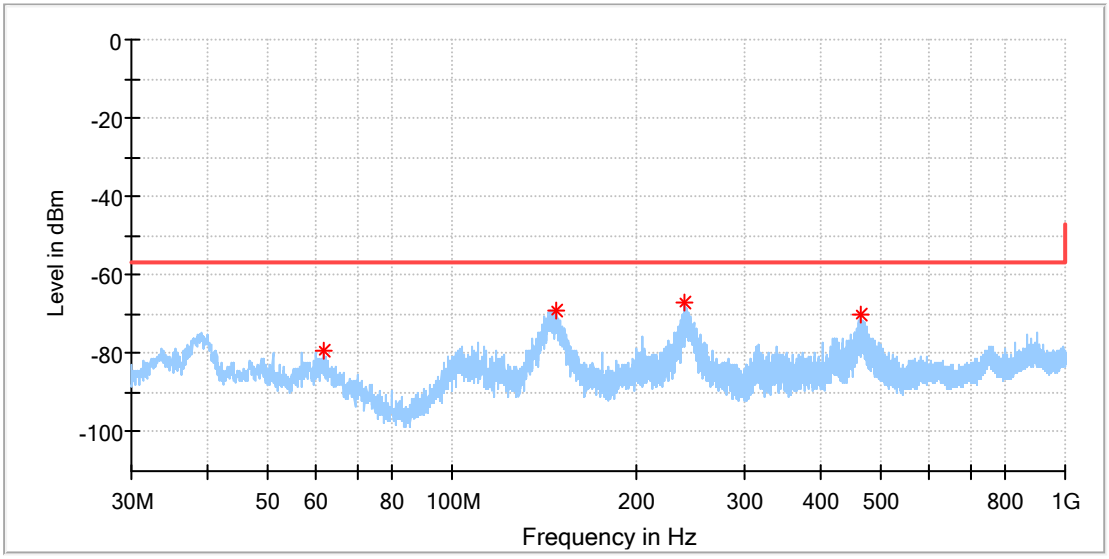
APPENDIX B.5: RECEIVER SPURIOUS EMISSIONS

Note: 1. This testing was carried out on different modes, but only the worst case was presented in this report.
2. Emissions far below the limits are not recorded.

Below 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

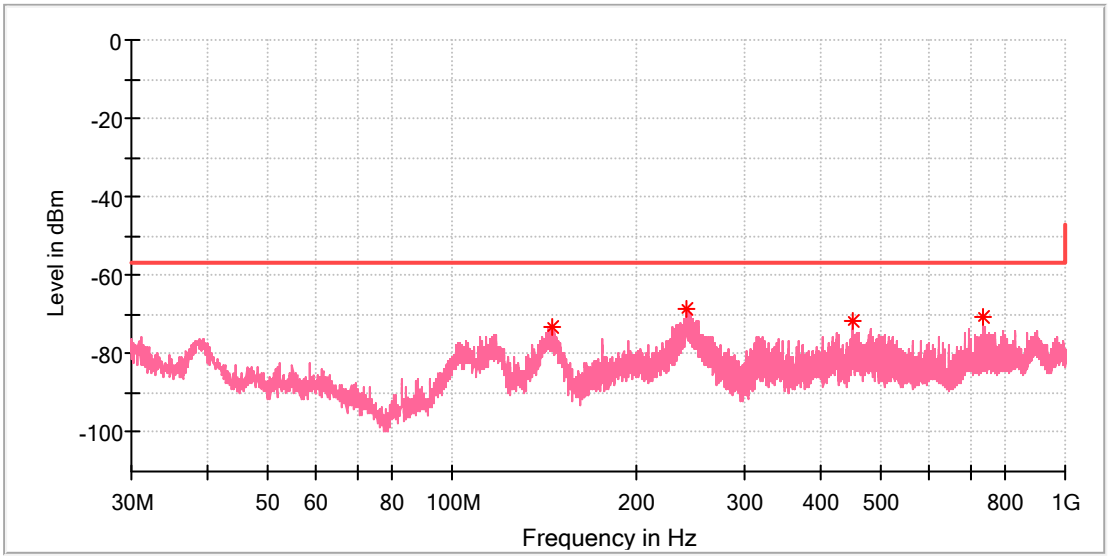


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.622000	-79.36	-57.00	22.36	150.0	H	245.0	-119.3
147.612500	-69.18	-57.00	12.18	150.0	H	0.0	-124.2
239.035000	-66.87	-57.00	9.87	150.0	H	118.0	-117.3
465.578500	-70.29	-57.00	13.29	150.0	H	55.0	-110.7

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



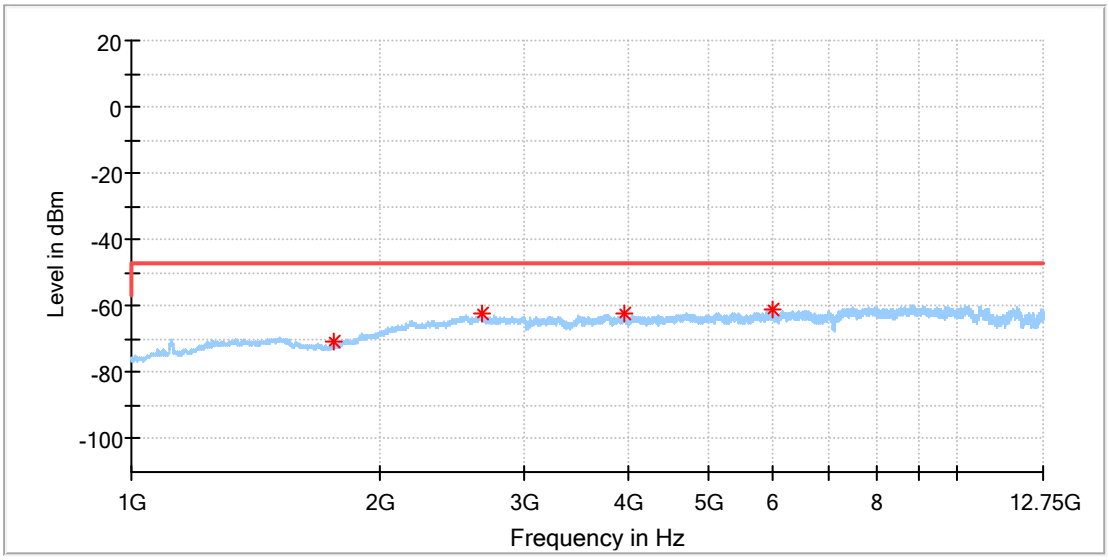
Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
145.575500	-73.35	-57.00	16.35	150.0	V	212.0	-124.1
241.363000	-68.54	-57.00	11.54	150.0	V	2.0	-117.5
449.816000	-71.67	-57.00	14.67	150.0	V	183.0	-113.9
732.862000	-70.49	-57.00	13.49	150.0	V	193.0	-107.0

Above 1GHz

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin

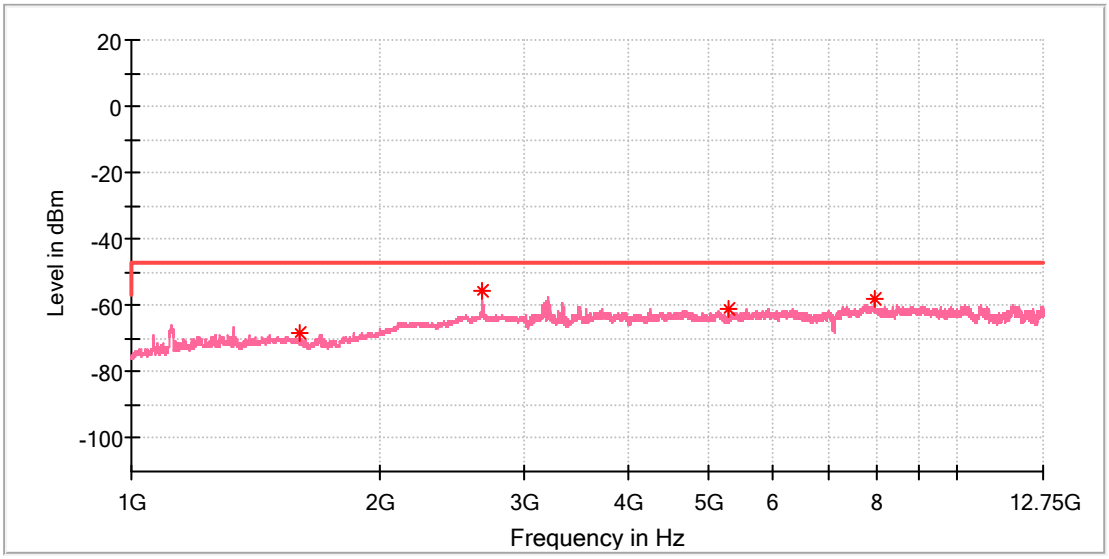


Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1760.500000	-70.45	-47.00	23.45	150.0	H	0.0	-99.7
2655.500000	-62.05	-47.00	15.05	150.0	H	277.0	-92.0
3966.875000	-62.37	-47.00	15.37	150.0	H	1.0	-94.5
5981.875000	-61.30	-47.00	14.30	150.0	H	0.0	-90.0

EUT Information

EUT Name:	THX Spatial Audio Quad-mode Gaming Headset
Model:	EDF700088
Sample No:	A004147965-002
Test Mode:	RX_BLE L CH
Test Voltage:	Battery
Remark:	Temp:23.2;Humi:50%
Test standard:	EN 300328
Tested By:	Lich Chen
Reviewed by	Terry Yin



Critical_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1596.500000	-68.39	-47.00	21.39	150.0	V	352.0	-98.3
2664.000000	-55.82	-47.00	8.82	150.0	V	109.0	-91.7
5300.458333	-61.30	-47.00	14.30	150.0	V	266.0	-92.3
7979.000000	-57.78	-47.00	10.78	150.0	V	124.0	-88.7

APPENDIX B.6: RECEIVER BLOCKING

Receiver Category 2

Wanted Signal Mean Power from Companion Device (dBm)	Test Channel (MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power (dBm)	Type of Blocking Signal	PER	Pass/ Fail
-57.31	2402.00	2380.00	-32.5	CW	4.50%	Pass
-57.35	2480.00	2504.00			3.60%	Pass
-57.31	2402.00	2300.00			2.80%	Pass
-57.35	2480.00	2584.00			3.00%	Pass