Prüfbericht-Nr.: *Test report no.:*	**CN24OMQR 001**	**Auftrags-Nr.:** *Order no.:*	168511891	Seite 1 von 27 *Page 1 of 27*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2024-10-31	
Auftraggeber: *Client:*	**Edifier International Limited** P.O. Box 6264 General Post Office Hong Kong			
Prüfgegenstand: *Test item:*	2.0 Gaming Speakers			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	EDF701010 (Trademark: HECATE, EDIFIER)			
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:*	2024-11-20			
Prüfmuster-Nr.: *Test sample no.:*	S24110601-001			
Prüfzeitraum: *Testing period:*	2024-11-20 - 2024-12-30			
Ort der Prüfung: *Place of testing:*	Guangdong Dongdian Testing Service Co.,Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			



geprüft von: *tested by:*	x	**genehmigt von:** *authorized by:*	x
Datum: *Date:* 2025-03-18	Signed by: Harry W. C. Wu	**Ausstellungsdatum:** *Issue date:* 2025-03-18	Signed by: Alex Lan
Stellung / Position	Project Manager	**Stellung** / Position	Authorizer

Sonstiges / *Other:*

This report is for Article 3.2 Radio Spectrum and Article 3.1a Health requirements.

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

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

5.1.4 HOPPING FREQUENCY SEPARATION
RESULT: Pass

5.1.5 MEDIUM UTILISATION (MU) FACTOR
RESULT: Not applicable

5.1.6 ADAPTIVITY
RESULT: Not applicable

5.1.7 OCCUPIED CHANNEL BANDWIDTH
RESULT: Pass

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

5.1.9 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.

2 Test Sites

2.1 Test Facilities

Guangdong Dongdian Testing Service Co.,Ltd.
Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

CNAS No.: L6451

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☒ RF Connected Test (RF Measurement System 1#)					
SIGNAL ANALYZER	R&S	FSQ26	101272	2025/03/31	1 Year
Wideband Radio Communication Tester	R&S	CMW500	120259	2025/07/08	1 Year
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2025/03/31	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2025/03/31	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	2025/03/31	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31	1 Year
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31	1 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11	2 Year
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18	2 Year
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31	1 Year

2.3 Uncertainty of Measurement

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

Table 2: Maximum Measurement Uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 ℃
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a 2.0 Gaming Speakers and it supports Bluetooth function used for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band.

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

Factory1: Dongguan Edifier Technology Co., Ltd.
Address: No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, 523808 Guangdong, P.R. China
Factory2: Ganzhou Ouxiang Electronics Co., Ltd.
Address: No.66, baokuang Road, Shangou Industrial Park, Yudu Country, Ganzhou City, Jiangxi Province, 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	2.0 Gaming Speakers
Type Designation	EDF701010
Trade Mark	HECATE, EDIFIER
Extreme Temperature Range	0°C - +35°C
Operating Voltage	DC 15V, 4A via AC/DC Adapter
AC/DC Adapter	Model:MX65Z1-1504000 Rated input: AC 100-240V, 50/60Hz, 2A Rated output: DC 15V, 4A, 60W
Technical Specification of Bluetooth (BDR & EDR)	
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	5.4
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, π/4DQPSK, 8DPSK
Antenna Type	PCB Layout antenna
Antenna Gain	-0.58 dBi (Provide by the Client)

Table 4: RF Channel and Frequency of Bluetooth (BDR & EDR)

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		

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth mode (BDR & EDR)
   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. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Block Diagram
- Schematics
- Rating Label
- User Manual

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.

4.3 Special Accessories and Auxiliary Equipment

Table 5: 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
Limit	:	Clause 4.3.1.2.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal and extreme temperature
Operation mode	:	A1
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.2 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 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.

5.1.3 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	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A1
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.4 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	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A1
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.5 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
Limit	:	Clause 4.3.1.6.3 of EN 300 328
Test suites	:	Clause 5.4.2 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.

5.1.6 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
Limit	:	Clause 4.3.1.7.2.2 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.

5.1.7 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
Limit	:	Clause 4.3.1.8.3 of EN 300 328
Test suites	:	Clause 5.4.7 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A1
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.8 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
Limit	:	Clause 4.3.1.9.3 of EN 300 328
Test suites	:	Clause 5.4.8 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A1
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.9 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
Limit	:	Clause 4.3.1.10.3 of EN 300 328
Test suites	:	Clause 5.4.9 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A1
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	Refer to test data

For the measurement records, refer to the appendix A.

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
Limit	:	Clause 4.3.1.11.3 of EN 300 328
Test suites	:	Clause 5.4.10 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A2
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	Refer to test data

For the measurement records, refer to the appendix A.

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
Limit	:	Clause 4.3.1.12.4 of EN 300 328
Test suites	:	Clause 5.4.11 of EN 300 328

Test Setup

Date of testing	:	2024-11-20 to 2024-12-30
Test voltage	:	USB 5V
Test environment	:	Normal temperature
Operation mode	:	A2
Ambient temperature	:	24.3 ℃
Relative humidity	:	44.3 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

For Bluetooth-BDR: the maximum RF output power is 7.57dBm.
For Bluetooth-EDR: the maximum RF output power is 7.70dBm.

Hence according to the 4.2.3.2, the Bluetooth-BDR/EDR 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

Exemption Conditions:

This requirement only applies to equipment with geo-location capability as defined in clause 4.3.1.13.2.

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 7.70 dBm (5.888mW).

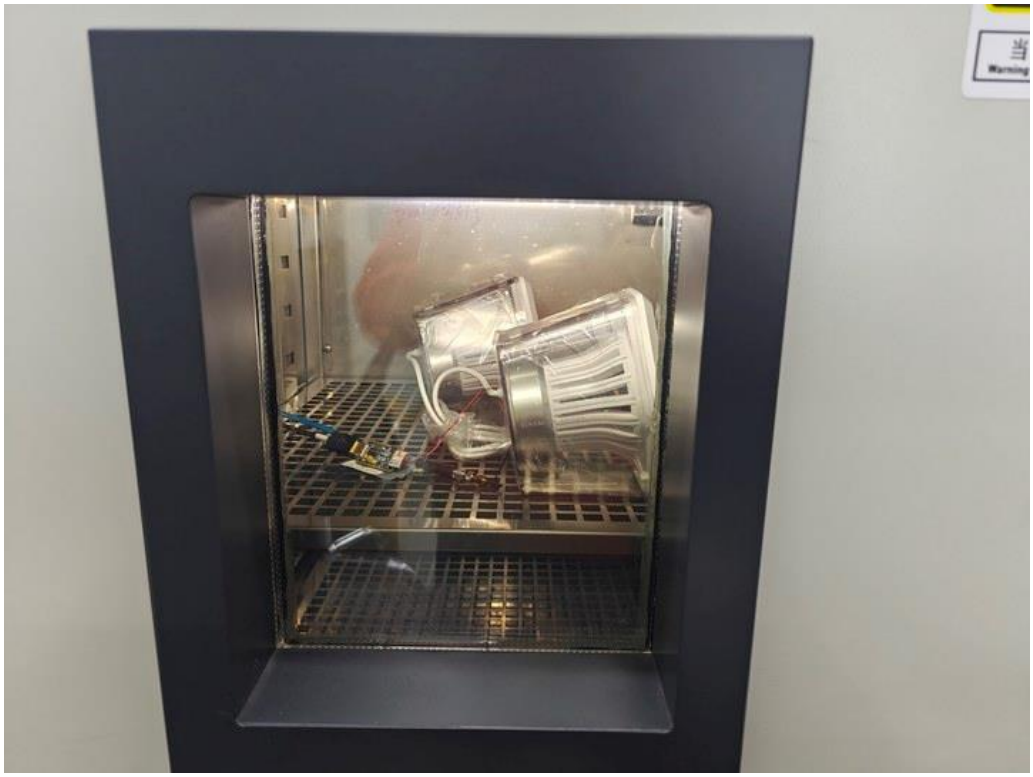
According to EN 62479:2010 clause 4.2, if the average total radiated power emitted by apparatus operating in the frequency range 10MHz-300GHz is less than or equal to 13.01dBm(20mW), then the apparatus is deemed to comply with the basic restrictions without testing.

7 Photographs of the Test Set-Up

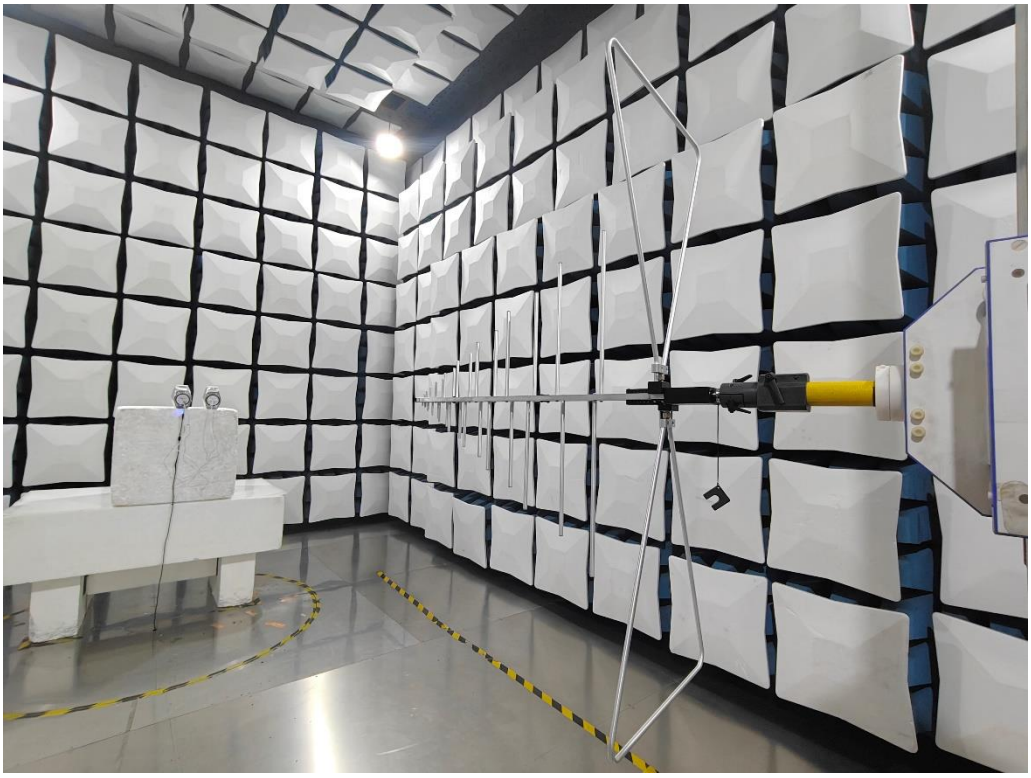
Photograph 1: Set-up for Radio Spectrum Testing, Normal Condition



Photograph 2: Set-up for Radio Spectrum Testing, Extreme Condition



Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions, below 1GHz



Photograph 4: Set-up for Transmitter & Receiver Spurious Emissions, above 1GHz



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Appendix A

Test Results of Classical Bluetooth

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1 Appendix A.1 : RF output power

The RF output power is the mean equivalent isotropically radiated power (EIRP) during a transmission burst. Only the worst case for all test modes reported.

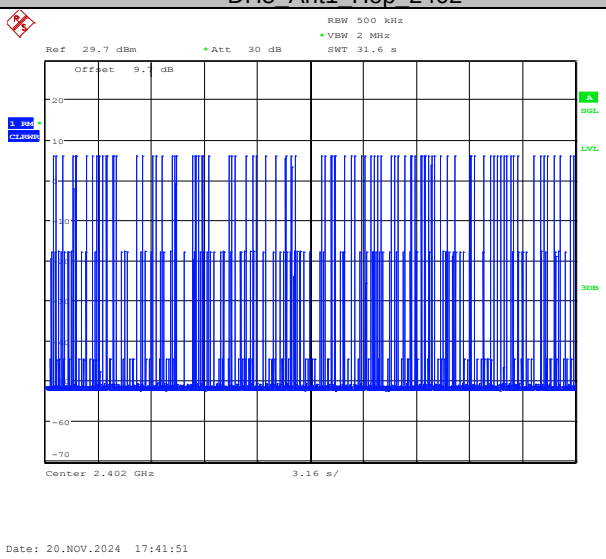
Test Condition	Test Mode	Antenna	Frequency [MHz]	Burst Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
NTNV	DH1	Ant1	Hop	8.12	7.54	20	PASS
	DH5	Ant1	Hop	8.08	7.50	20	PASS
	2DH1	Ant1	Hop	7.27	6.69	20	PASS
	2DH5	Ant1	Hop	6.81	6.23	20	PASS
	3DH1	Ant1	Hop	7.44	6.86	20	PASS
	3DH5	Ant1	Hop	6.77	6.19	20	PASS
LTNV	DH1	Ant1	Hop	8.00	7.42	20	PASS
	DH5	Ant1	Hop	8.08	7.50	20	PASS
	2DH1	Ant1	Hop	8.28	7.70	20	PASS
	2DH5	Ant1	Hop	8.11	7.53	20	PASS
	3DH1	Ant1	Hop	7.38	6.80	20	PASS
	3DH5	Ant1	Hop	6.82	6.24	20	PASS
HTNV	DH1	Ant1	Hop	8.07	7.49	20	PASS
	DH5	Ant1	Hop	8.15	7.57	20	PASS
	2DH1	Ant1	Hop	7.43	6.85	20	PASS
	2DH5	Ant1	Hop	6.94	6.36	20	PASS
	3DH1	Ant1	Hop	7.43	6.85	20	PASS
	3DH5	Ant1	Hop	8.02	7.44	20	PASS

Note: EIRP = Measured Highest Pburst Values + Antenna Gain

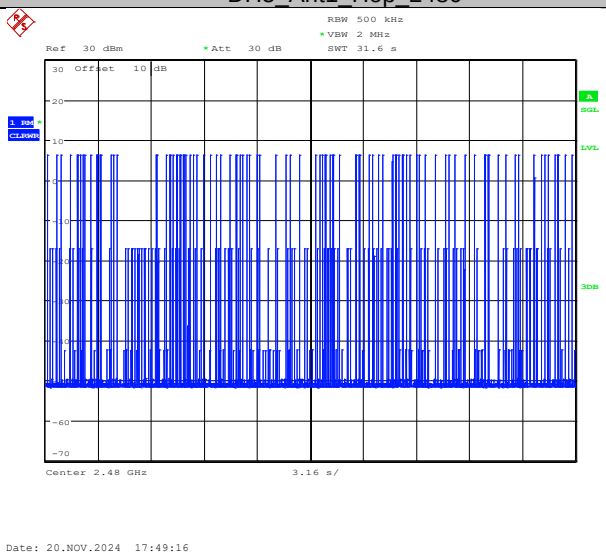
2 Appendix A.2 : Accumulated Transmit Time

Test Mode	Antenna	Channel	Result [ms]	Limit [ms]	Verdict
DH5	Ant1	Hop_2402	308.617	400	PASS
		Hop_2480	287.551	400	PASS
2DH5	Ant1	Hop_2402	333.896	400	PASS
		Hop_2480	288.604	400	PASS
3DH5	Ant1	Hop_2402	277.018	400	PASS
		Hop_2480	268.592	400	PASS

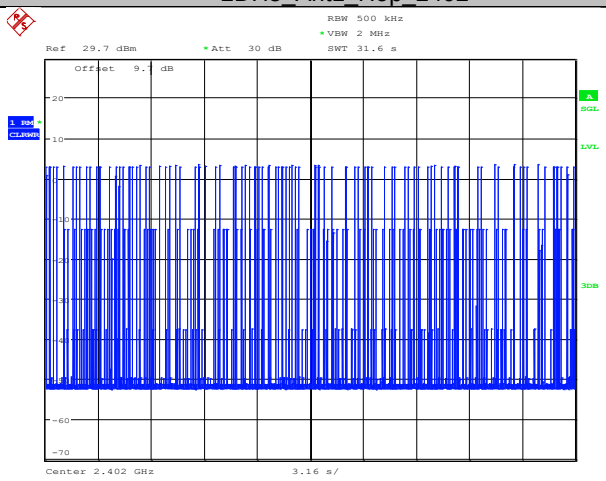
DH5_Ant1_Hop_2402



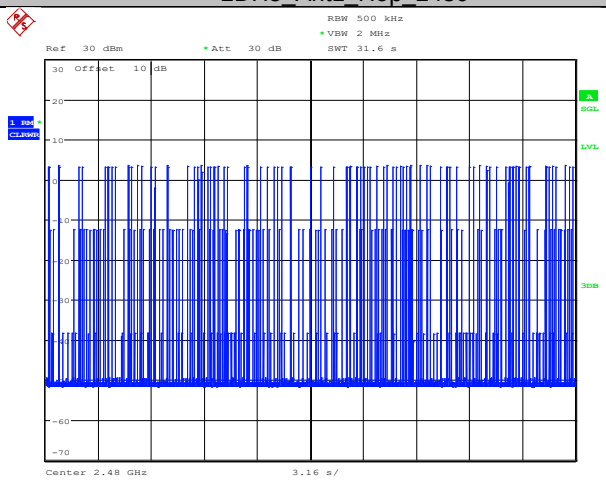
DH5_Ant1_Hop_2480



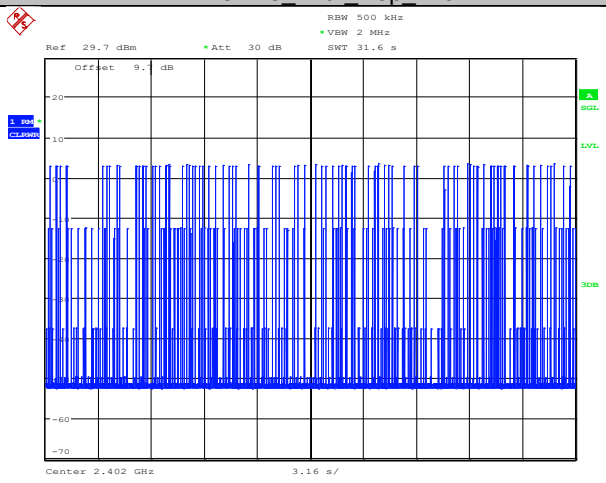
2DH5_Ant1_Hop_2402



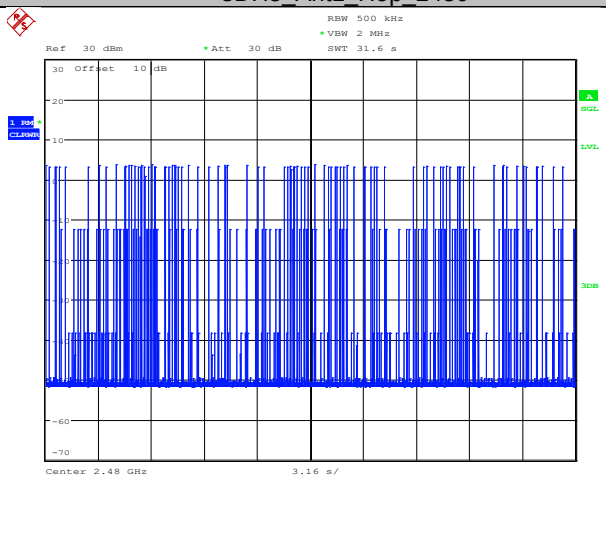
2DH5_Ant1_Hop_2480



3DH5_Ant1_Hop_2402



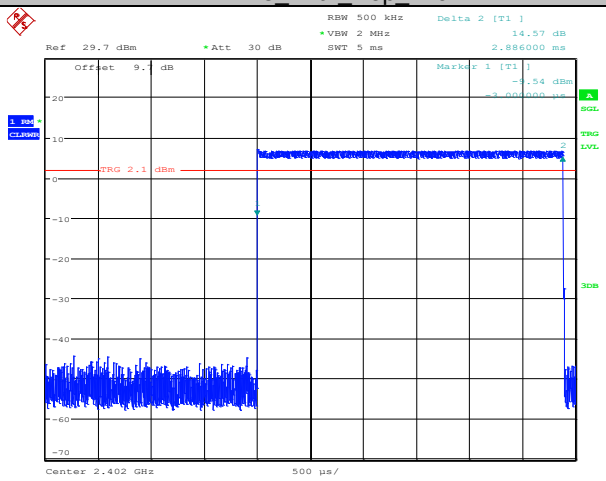
3DH5_Ant1_Hop_2480

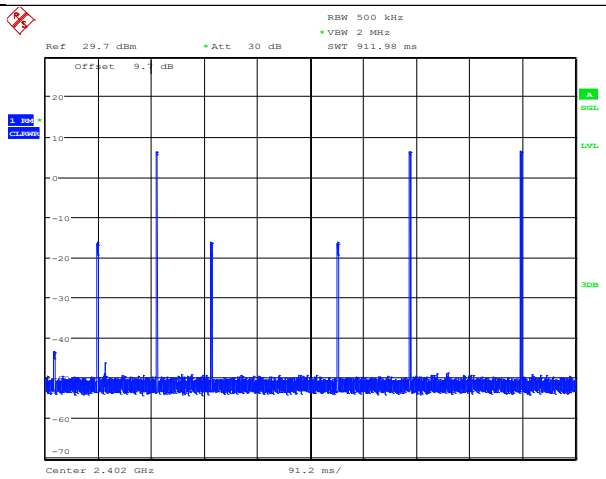


3 Appendix A.3 : Frequency Occupation

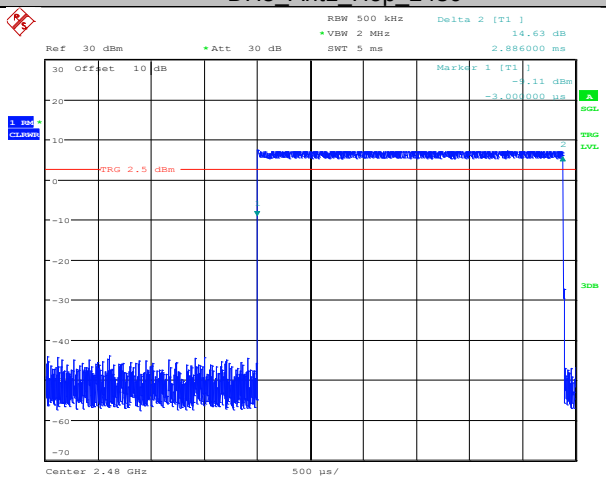
Test Mode	Antenna	Channel	Result [Num.]	Limit [Num.]	Verdict
DH5	Ant1	Hop_2402	3	1	PASS
		Hop_2480	1	1	PASS
2DH5	Ant1	Hop_2402	5	1	PASS
		Hop_2480	2	1	PASS
3DH5	Ant1	Hop_2402	1	1	PASS
		Hop_2480	3	1	PASS

DH5_Ant1_Hop_2402

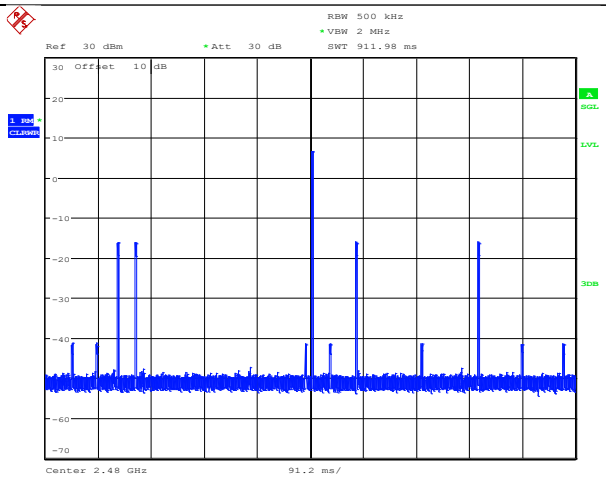




DH5_Ant1_Hop_2480

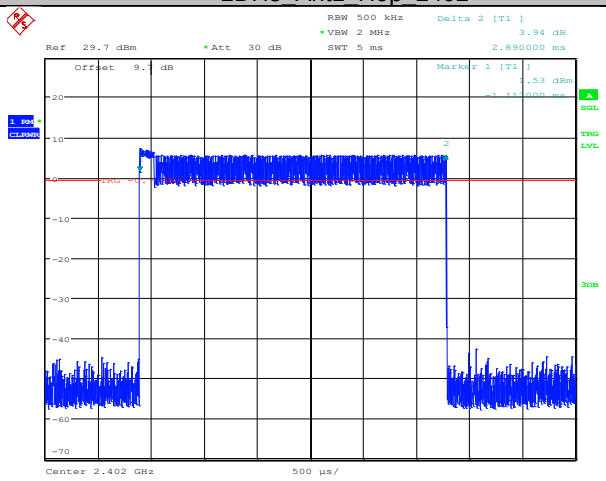


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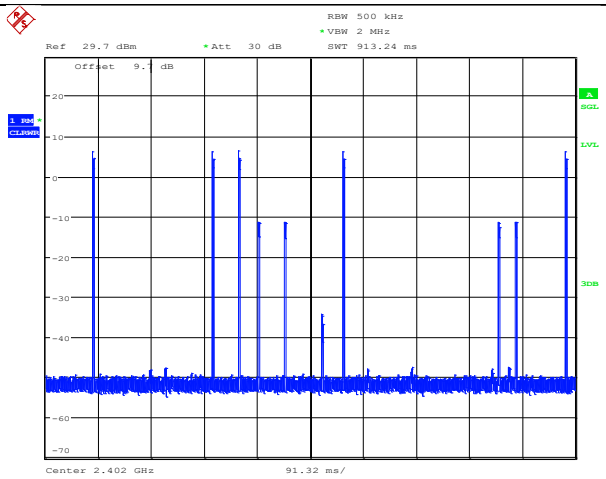


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2DH5_Ant1_Hop_2402

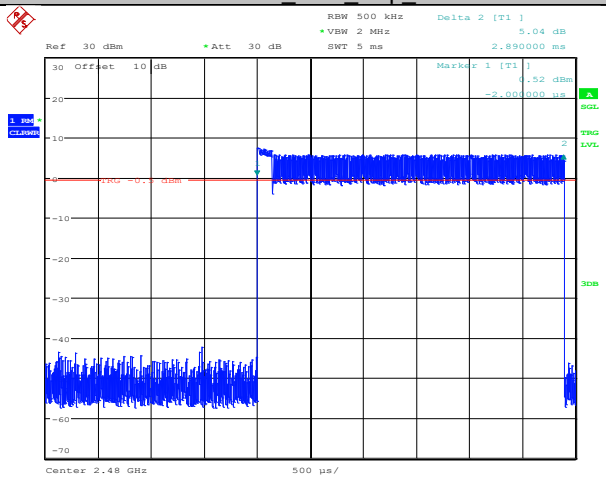


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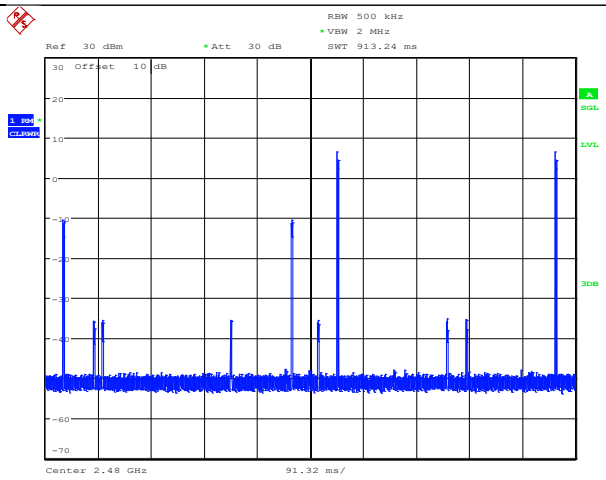


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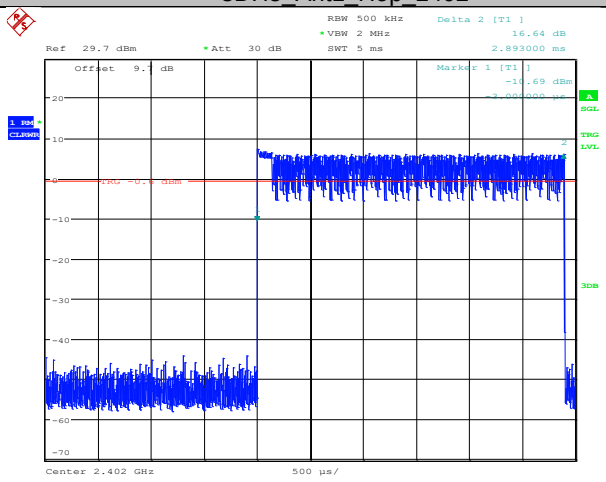


Date: 20.NOV.2024 18:05:31

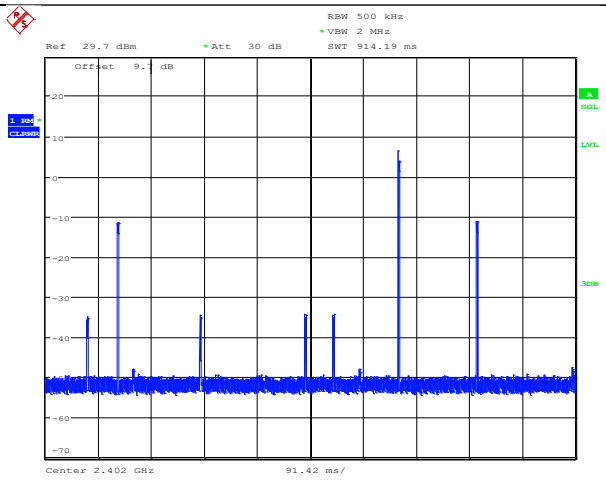


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3DH5_Ant1_Hop_2402

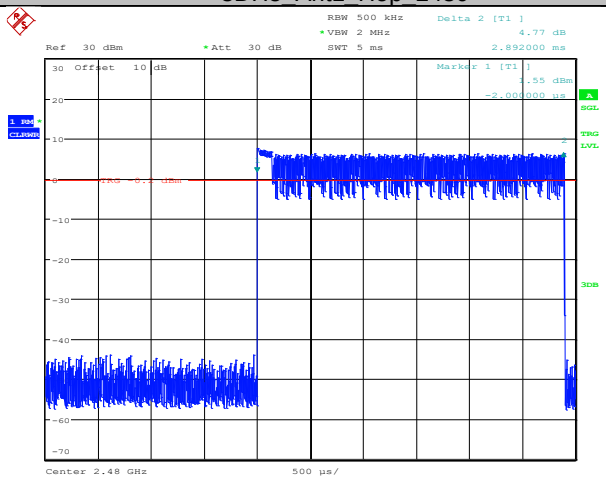


Date: 20.NOV.2024 18:16:08

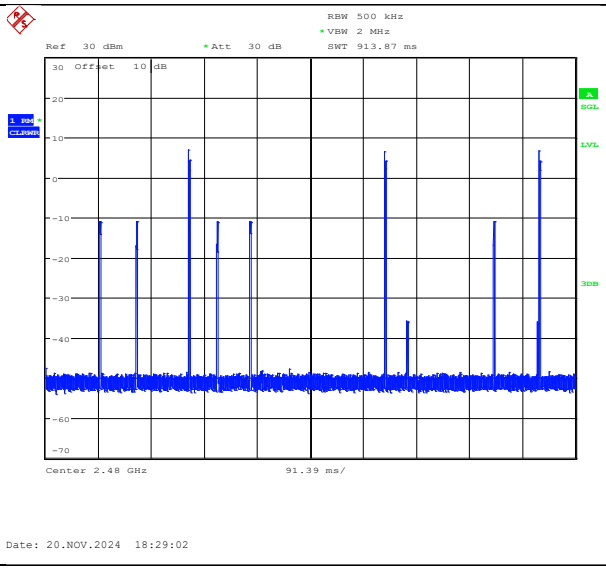


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3DH5_Ant1_Hop_2480



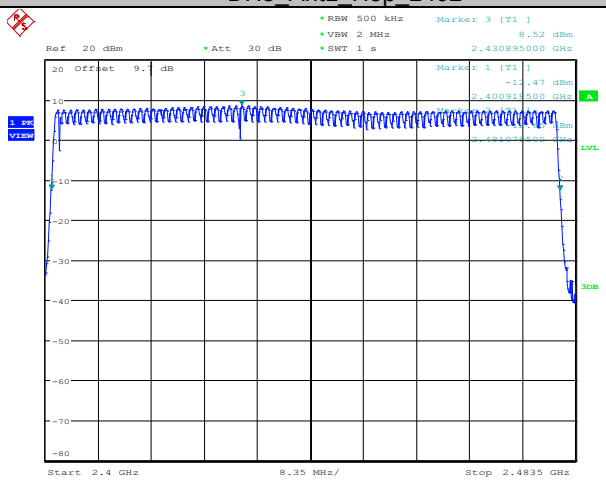
Date: 20.NOV.2024 18:28:58


RBW 500 kHz
VBW 2 MHz
Ref 30 dBm
Att 30 dB
SWT 913.87 ms
Offset 10 dB
30
20
10
0
-10
-20
-30
-40
-60
-70
1 RM
CLRWR
A
SGL
LVL
3DB
Center 2.48 GHz
91.39 ms/
Date: 20.NOV.2024 18:29:02

4 Appendix A.4 : Hopping Sequence

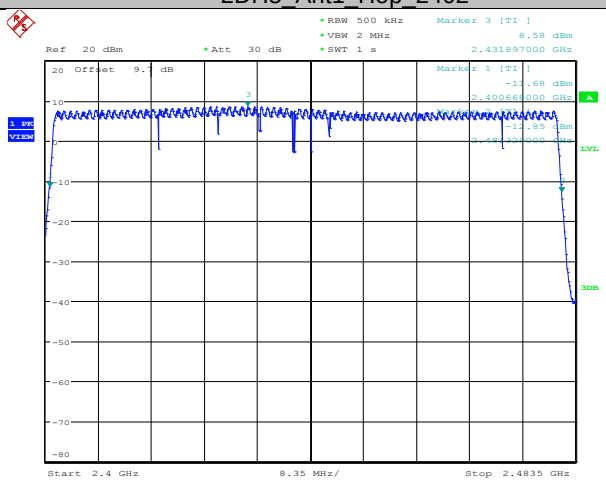
Test Mode	Antenna	Channel	Hop. [Num.]	Limit [Num.]	Band Use [%]	Limit [%]	Verdict
DH5	Ant1	Hop_2402	79	15	96.00	70	PASS
2DH5	Ant1	Hop_2402	79	15	96.60	70	PASS
3DH5	Ant1	Hop_2402	79	15	96.60	70	PASS

DH5_Ant1_Hop_2402



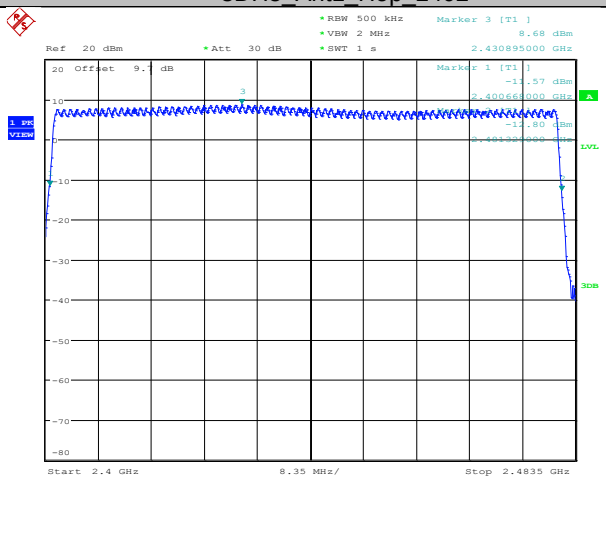
Date: 20.NOV.2024 17:48:26

2DH5_Ant1_Hop_2402



Date: 20.NOV.2024 18:04:24

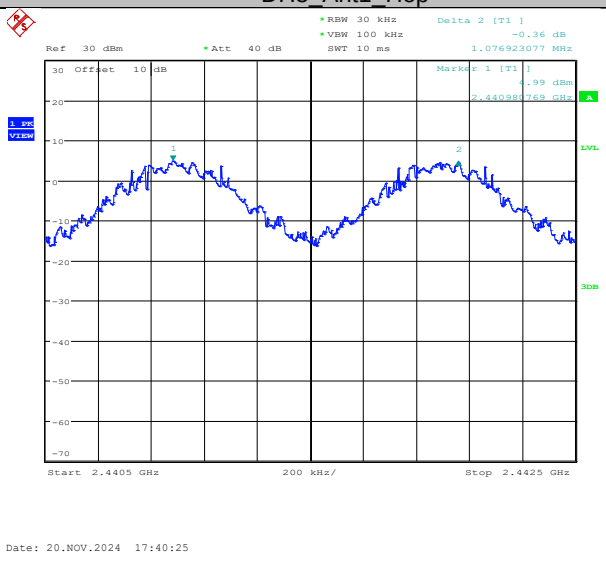
3DH5_Ant1_Hop_2402



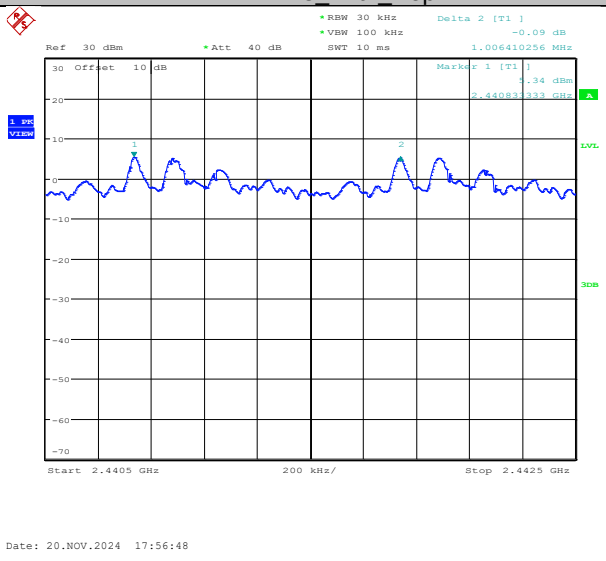
5 Appendix A.5: Hopping Frequency Separation

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.077	0.100	PASS
2DH5	Ant1	Hop	1.006	0.100	PASS
3DH5	Ant1	Hop	1.006	0.100	PASS

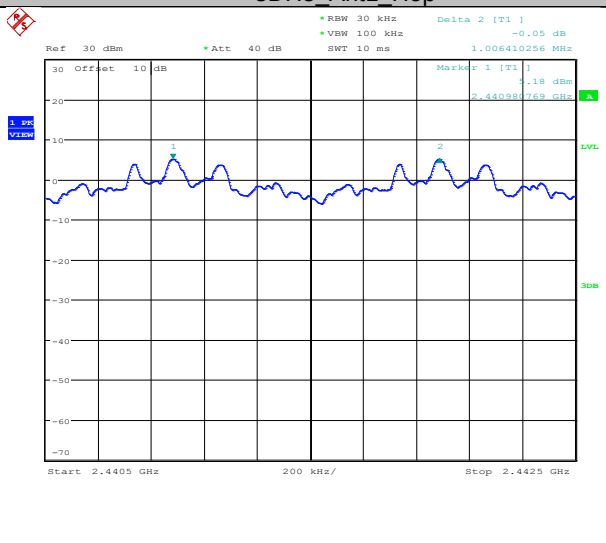
DH5_Ant1_Hop



2DH5_Ant1_Hop



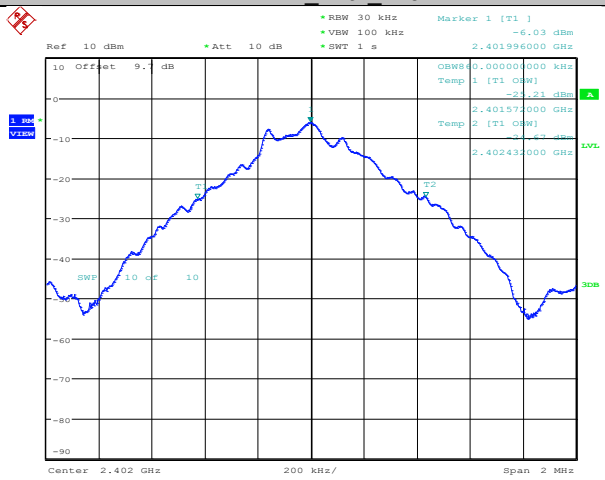
3DH5_Ant1_Hop



6 Appendix A.6: Occupied Channel Bandwidth

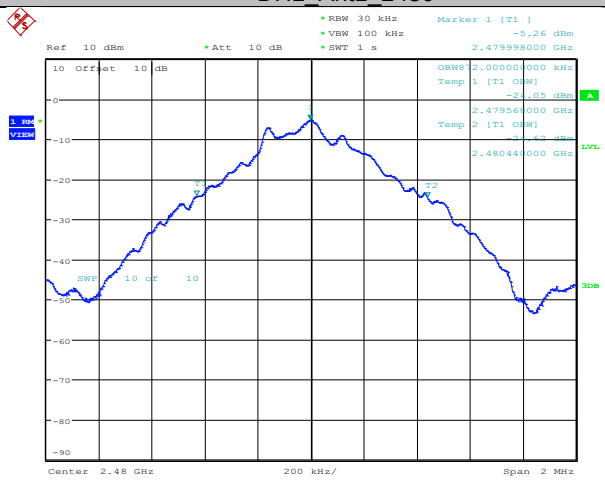
Test Mode	Antenna	Channel	OCB[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH1	Ant1	2402	0.860	2401.5720	2402.4320	2400 to 2483.5	PASS
		2480	0.872	2479.5680	2480.4400	2400 to 2483.5	PASS
DH5	Ant1	2402	0.890	2401.5520	2402.4420	2400 to 2483.5	PASS
		2480	0.896	2479.5520	2480.4480	2400 to 2483.5	PASS
2DH1	Ant1	2402	1.178	2401.4000	2402.5780	2400 to 2483.5	PASS
		2480	1.170	2479.4040	2480.5740	2400 to 2483.5	PASS
2DH5	Ant1	2402	1.228	2401.3900	2402.6180	2400 to 2483.5	PASS
		2480	1.216	2479.3960	2480.6120	2400 to 2483.5	PASS
3DH1	Ant1	2402	1.174	2401.4240	2402.5980	2400 to 2483.5	PASS
		2480	1.170	2479.4240	2480.5940	2400 to 2483.5	PASS
3DH5	Ant1	2402	1.236	2401.3780	2402.6140	2400 to 2483.5	PASS
		2480	1.224	2479.3840	2480.6080	2400 to 2483.5	PASS

DH1_Ant1_2402



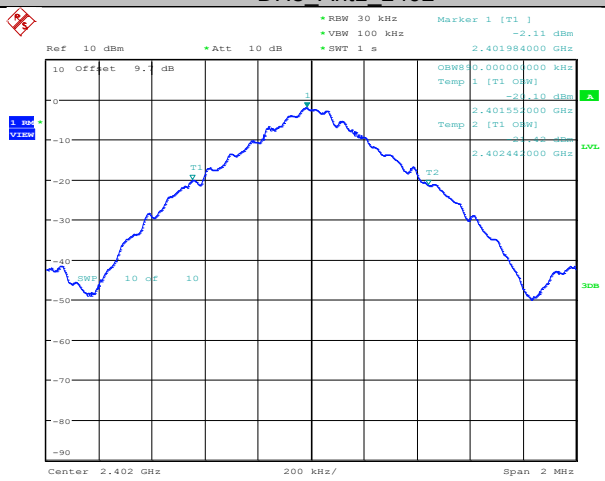
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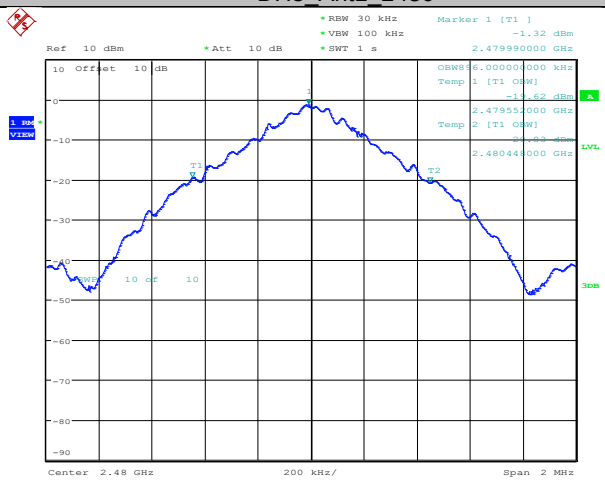
Date: 20.NOV.2024 17:30:25

DH5_Ant1_2402



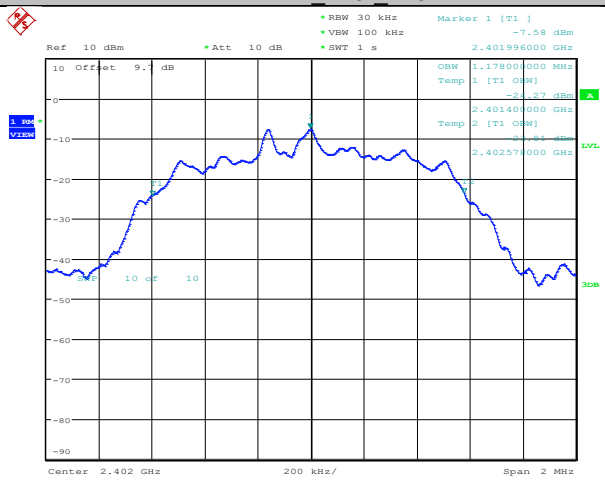
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DH5_Ant1_2480



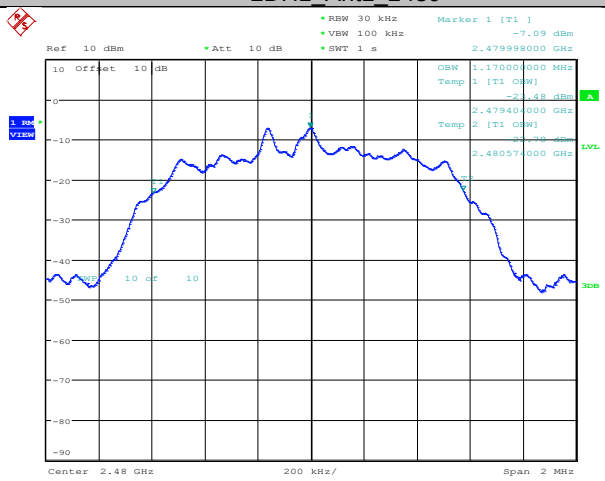
Date: 20.NOV.2024 17:30:57

2DH1_Ant1_2402



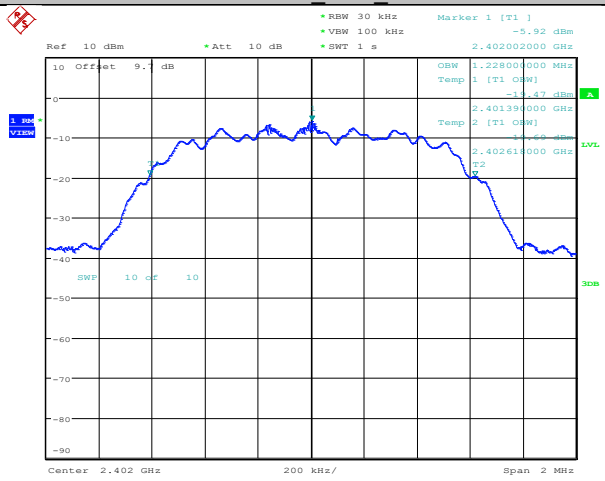
Date: 20.NOV.2024 17:27:19

2DH1_Ant1_2480



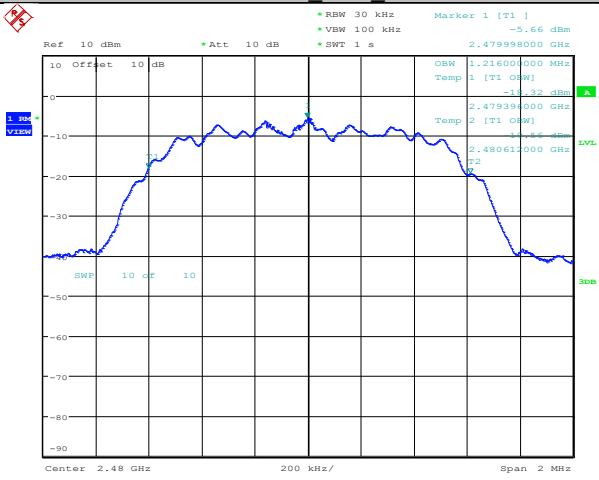
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2DH5_Ant1_2402



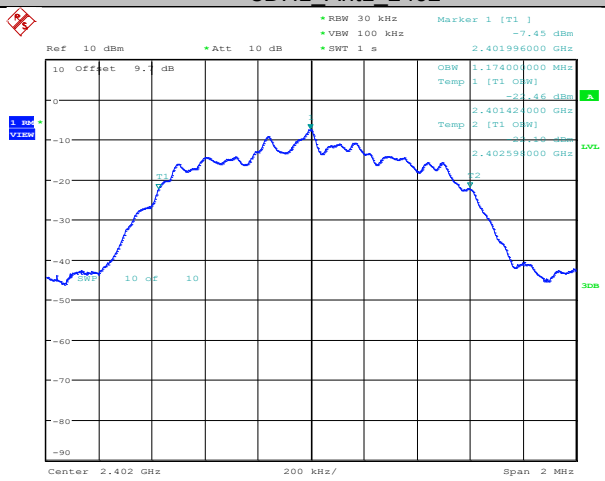
Date: 20.NOV.2024 17:28:04

2DH5_Ant1_2480



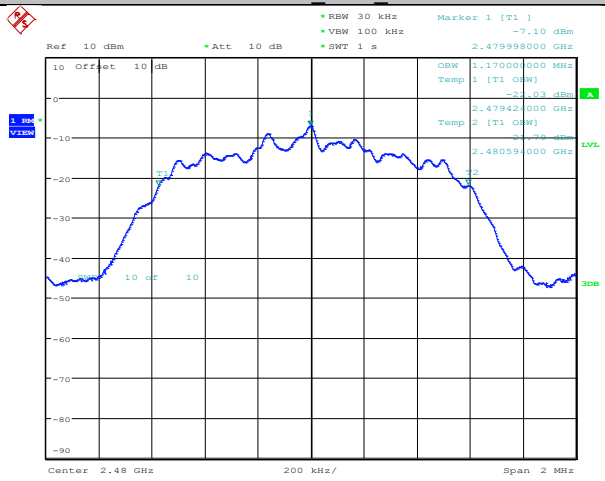
Date: 20.NOV.2024 17:32:16

3DH1_Ant1_2402



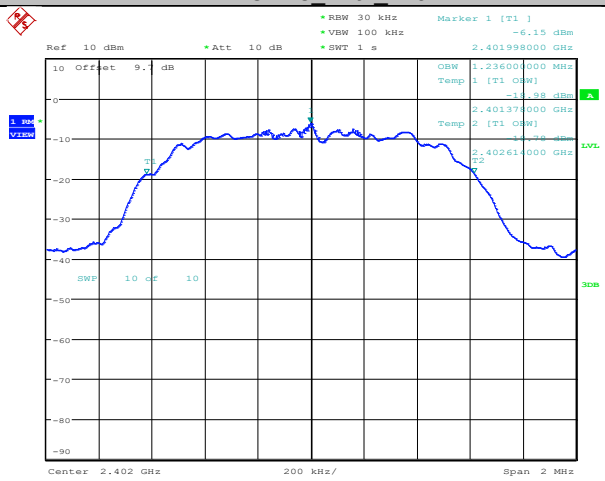
Date: 20.NOV.2024 17:28:51

3DH1_Ant1_2480



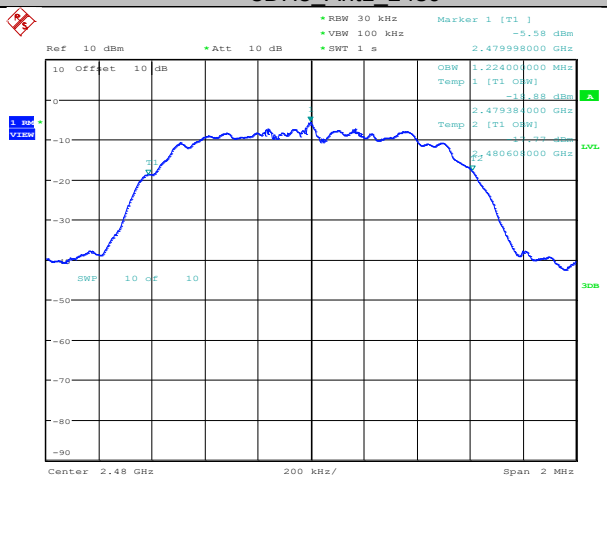
Date: 20.NOV.2024 17:32:44

3DH5_Ant1_2402



Date: 20.NOV.2024 17:29:41

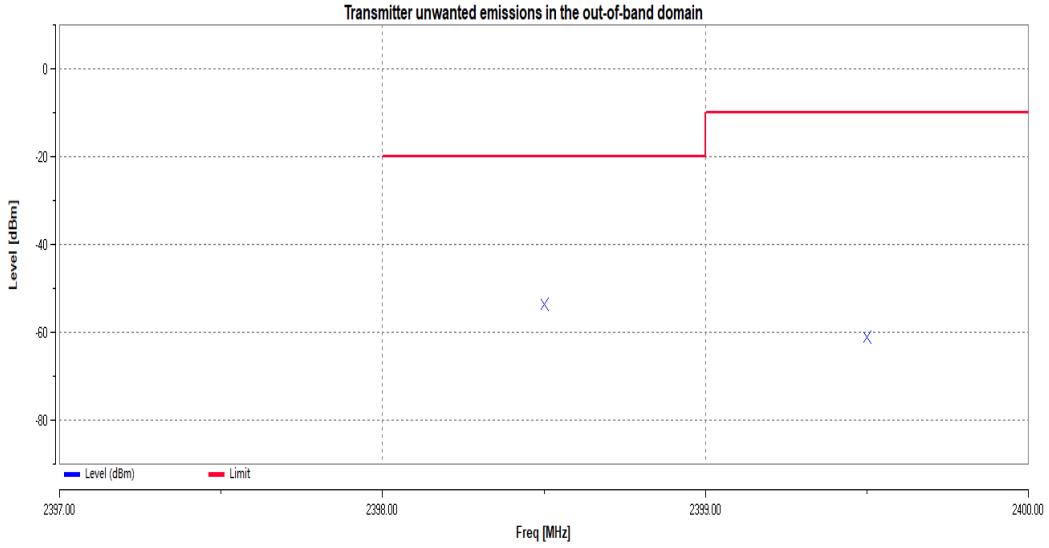
3DH5_Ant1_2480



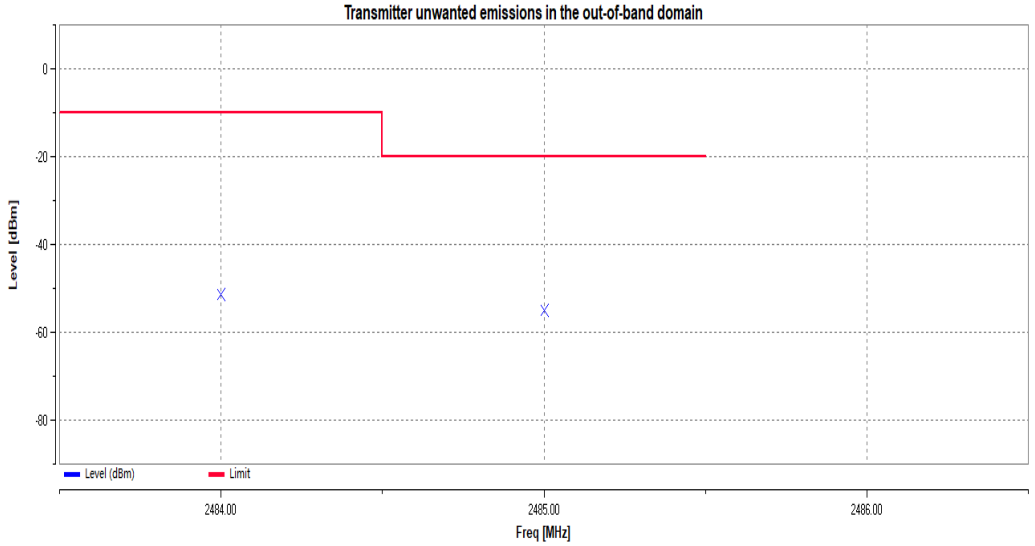
7 Appendix A.7 : Tx unwanted emissions in the out-of-band domain

Test Mode	Antenna	Channel	Freq. [MHz]	Level [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Hop	2398.500	-53.71	-20.00	PASS
			2399.500	-61.16	-10.00	PASS
			2484.000	-51.39	-10.00	PASS
			2485.000	-55.10	-20.00	PASS
2DH5	Ant1	Hop	2398.044	-51.25	-20.00	PASS
			2398.272	-49.55	-20.00	PASS
			2399.272	-40.54	-10.00	PASS
			2399.500	-56.01	-10.00	PASS
			2484.000	-50.00	-10.00	PASS
			2484.228	-50.22	-10.00	PASS
			2485.228	-50.18	-20.00	PASS
			2485.456	-50.42	-20.00	PASS
3DH5	Ant1	Hop	2398.028	-49.72	-20.00	PASS
			2398.264	-50.78	-20.00	PASS
			2399.264	-49.35	-10.00	PASS
			2399.500	-55.86	-10.00	PASS
			2484.000	-49.94	-10.00	PASS
			2484.236	-50.06	-10.00	PASS
			2485.236	-49.56	-20.00	PASS
			2485.472	-50.35	-20.00	PASS

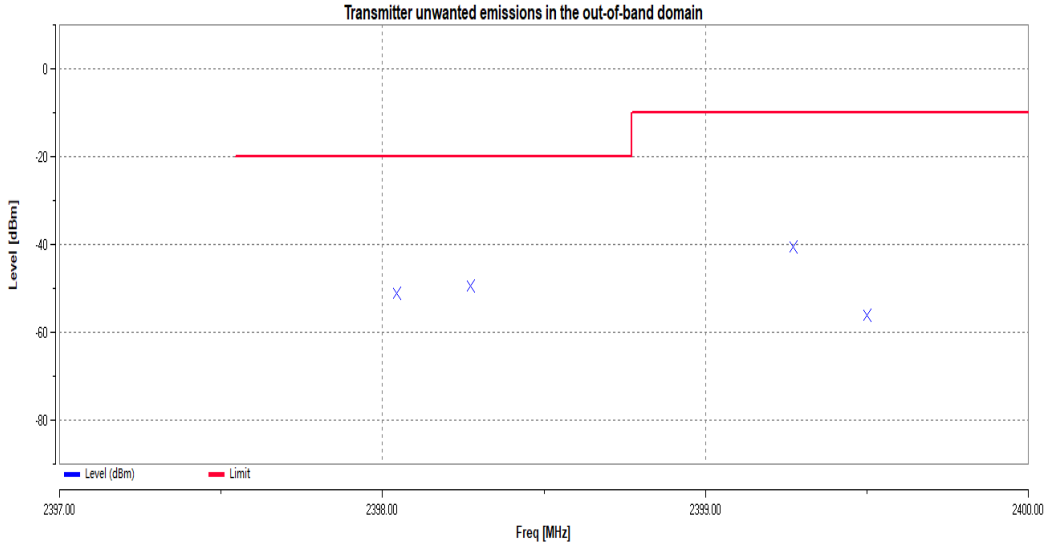
DH5_Ant1_Hop_2400MHz-2BW to 2400MHz



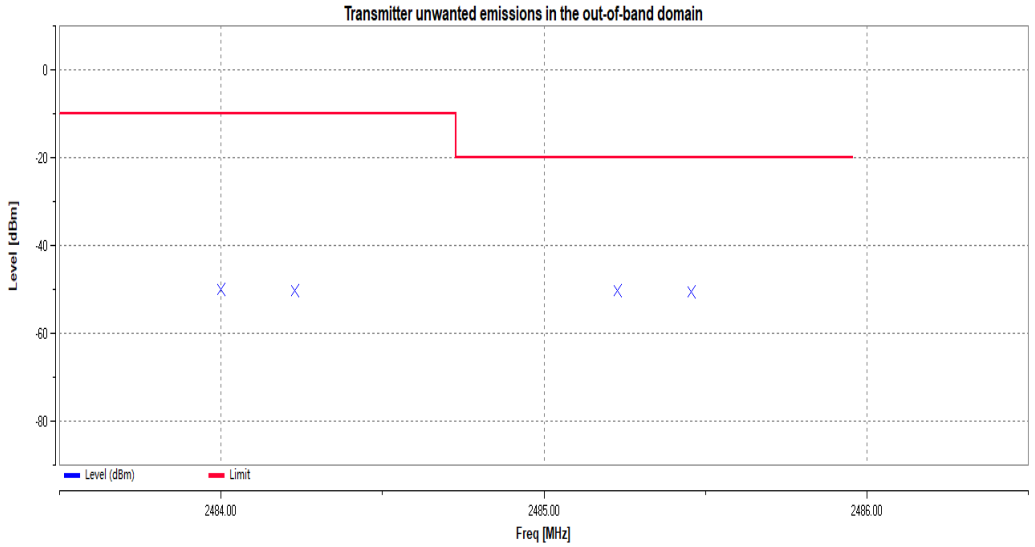
DH5_Ant1_Hop_2483.5MHz to 2483.5MHz+2BW



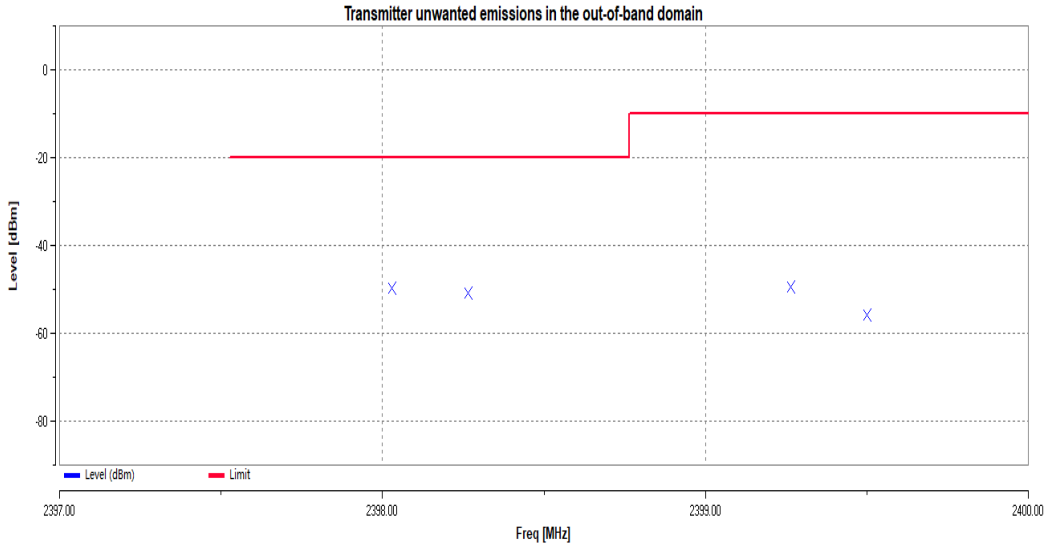
2DH5_Ant1_Hop_2400MHz-2BW to 2400MHz



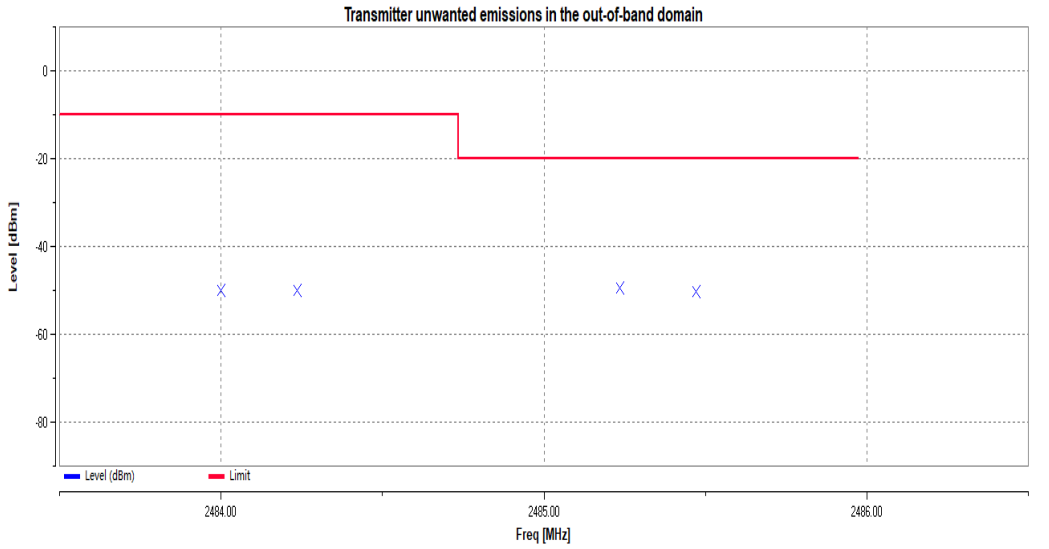
2DH5_Ant1_Hop_2483.5MHz to 2483.5MHz+2BW



3DH5_Ant1_Hop_2400MHz-2BW to 2400MHz



3DH5_Ant1_Hop_2483.5MHz to 2483.5MHz+2BW

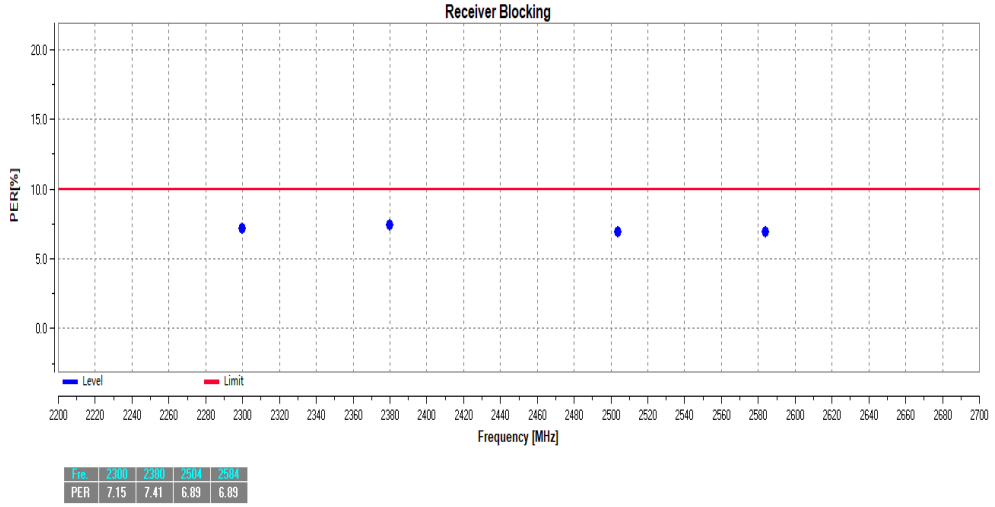


8 Appendix A.8: Receiver Blocking

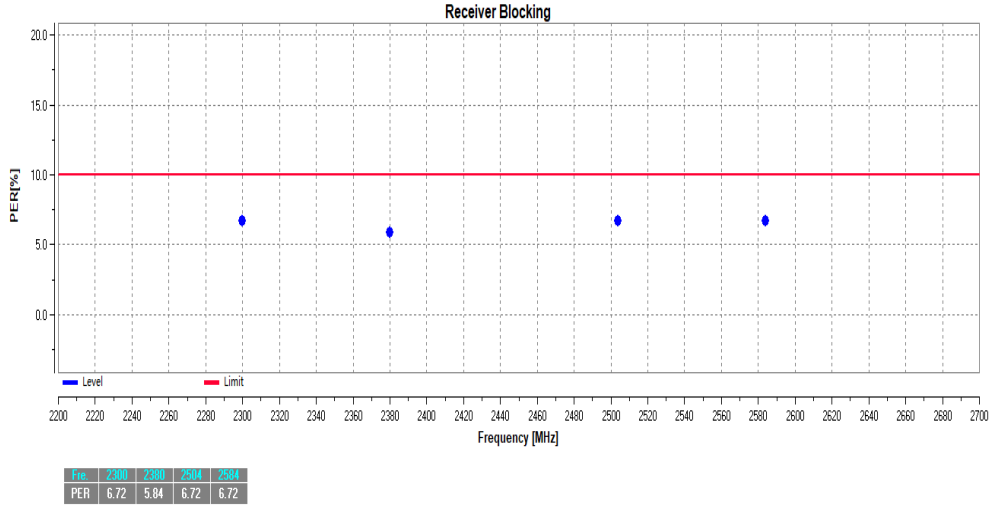
Note: The EUT is category 2 receiver.

Test Mode	Antenna	Channel	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
DH1	Ant1	Hop	---	-70.17	2300	-34.58	7.15	≤10	PASS
			---	-70.17	2380	-34.58	7.41	≤10	PASS
			---	-70.17	2504	-34.58	6.89	≤10	PASS
			---	-70.17	2584	-34.58	6.89	≤10	PASS
2DH1	Ant1	Hop	---	-68.87	2300	-34.58	6.72	≤10	PASS
			---	-68.87	2380	-34.58	5.84	≤10	PASS
			---	-68.87	2504	-34.58	6.72	≤10	PASS
			---	-68.87	2584	-34.58	6.72	≤10	PASS
3DH1	Ant1	Hop	---	-68.88	2300	-34.58	8.51	≤10	PASS
			---	-68.88	2380	-34.58	9.09	≤10	PASS
			---	-68.88	2504	-34.58	9.58	≤10	PASS
			---	-68.88	2584	-34.58	8.09	≤10	PASS

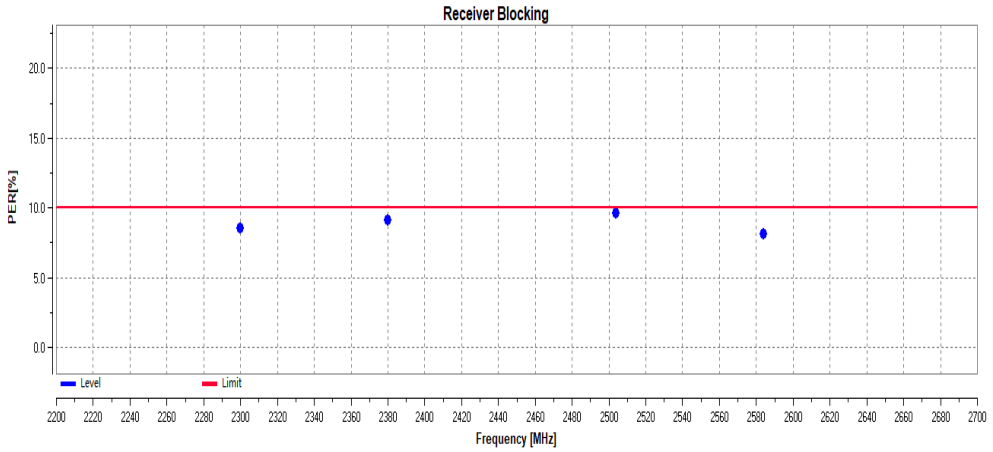
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



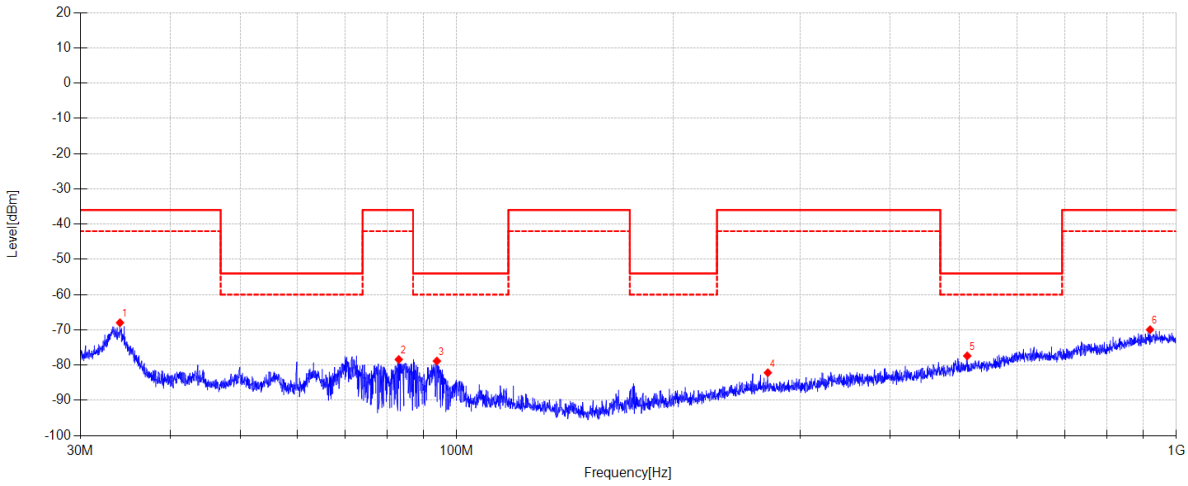
Fre.	2300	2380	2504	2584
PER	8.51	9.09	9.58	8.09

9 Appendix A.9: Test Plots of Transmitter Unwanted Emission in the spurious domain

Note: The EUT without antenna connector.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\8		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



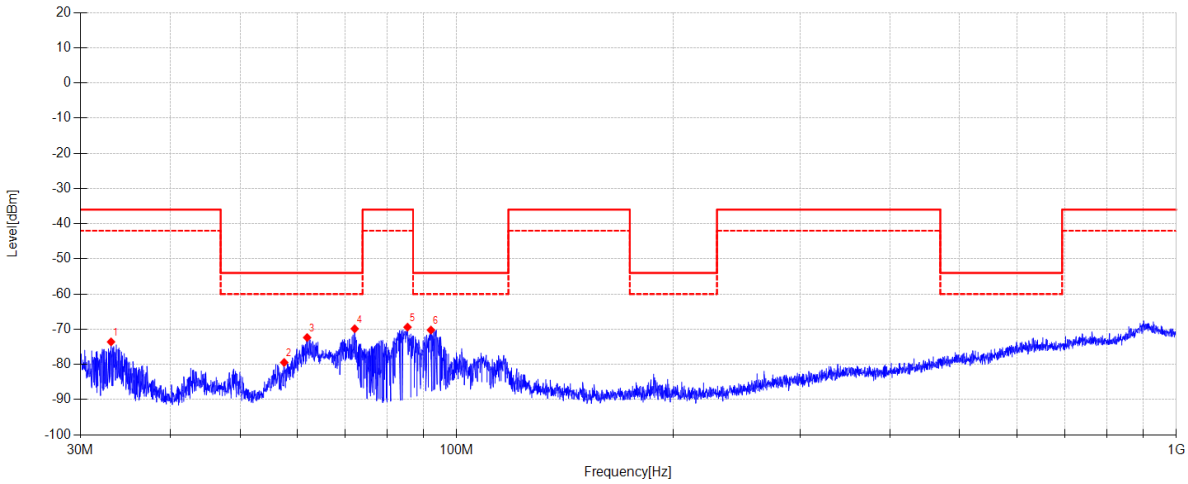
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	34.060	44.41	-112.38	-67.97	-36.00	31.97	PK	Horizontal	ERP
2	83.096	38.83	-117.23	-78.40	-36.00	42.40	PK	Horizontal	ERP
3	93.879	37.26	-116.11	-78.85	-54.00	24.85	PK	Horizontal	ERP
4	270.635	29.25	-111.40	-82.15	-36.00	46.15	PK	Horizontal	ERP
5	512.263	28.74	-106.12	-77.38	-54.00	23.38	PK	Horizontal	ERP
6	919.302	28.37	-98.32	-69.95	-36.00	33.95	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\9		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



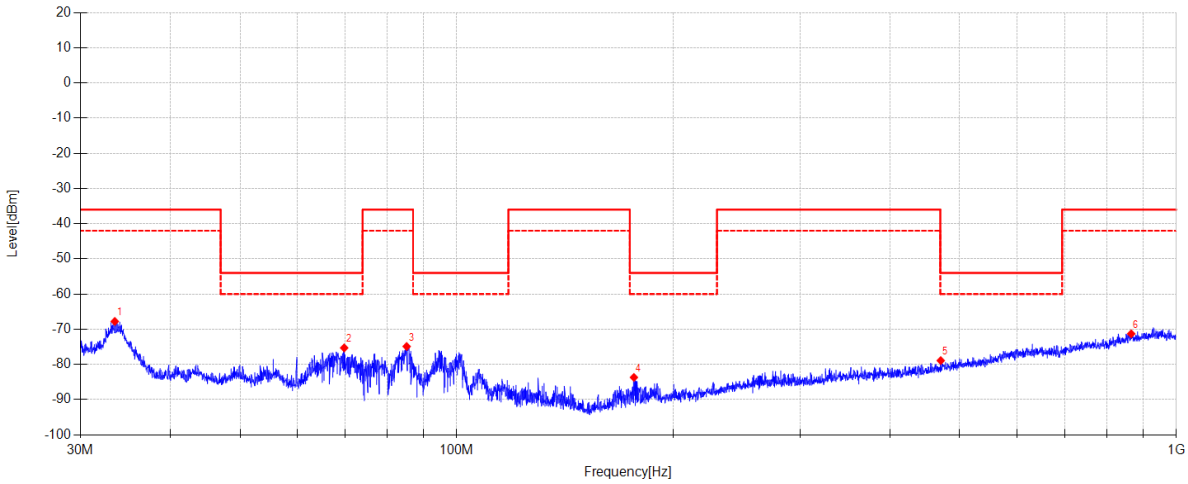
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.094	42.79	-116.38	-73.59	-36.00	37.59	PK	Vertical	ERP
2	57.586	35.32	-114.76	-79.44	-54.00	25.44	PK	Vertical	ERP
3	61.986	42.98	-115.34	-72.36	-54.00	18.36	PK	Vertical	ERP
4	72.173	47.61	-117.47	-69.86	-54.00	15.86	PK	Vertical	ERP
5	85.460	44.62	-114.02	-69.40	-36.00	33.40	PK	Vertical	ERP
6	92.118	41.35	-111.58	-70.23	-54.00	16.23	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\10		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



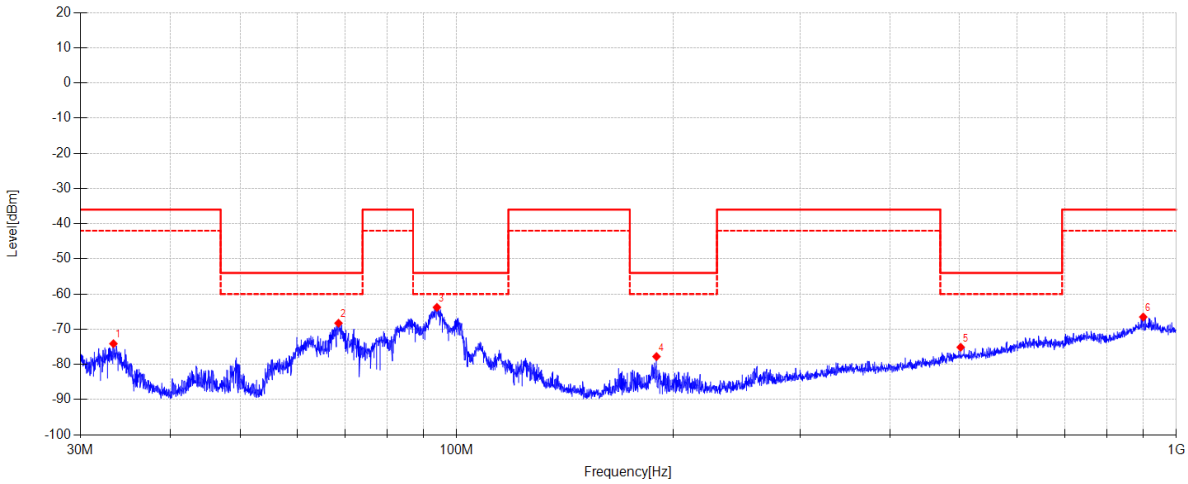
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.491	44.71	-112.48	-67.77	-36.00	31.77	PK	Horizontal	ERP
2	69.784	42.10	-117.39	-75.29	-54.00	21.29	PK	Horizontal	ERP
3	85.220	42.20	-117.09	-74.89	-36.00	38.89	PK	Horizontal	ERP
4	176.330	32.96	-116.65	-83.69	-54.00	29.69	PK	Horizontal	ERP
5	470.594	28.32	-107.22	-78.90	-54.00	24.90	PK	Horizontal	ERP
6	865.506	28.21	-99.50	-71.29	-36.00	35.29	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\11		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



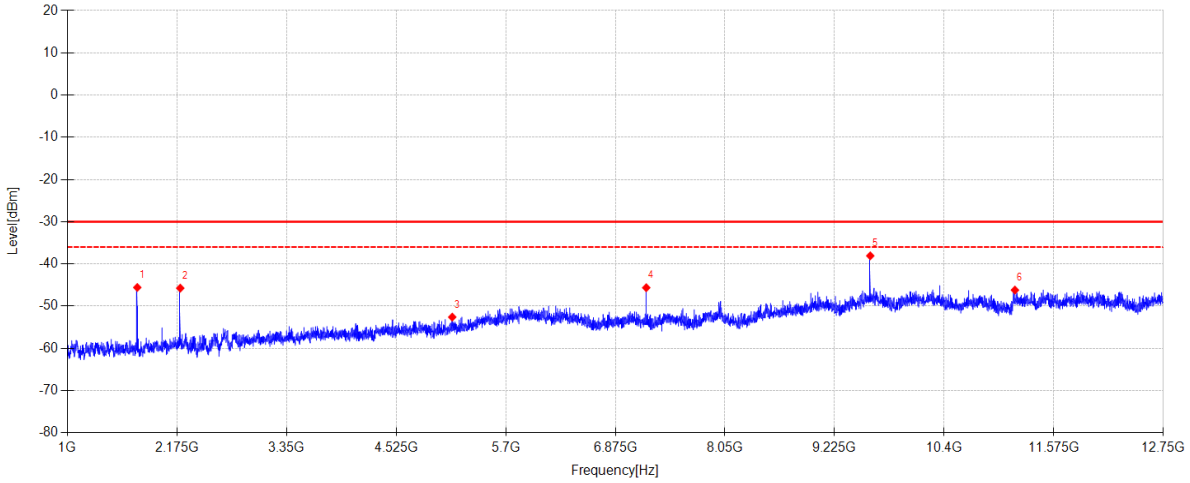
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.351	42.26	-116.36	-74.10	-36.00	38.10	PK	Vertical	ERP
2	68.524	49.04	-117.31	-68.27	-54.00	14.27	PK	Vertical	ERP
3	93.879	47.46	-111.24	-63.78	-54.00	9.78	PK	Vertical	ERP
4	189.536	35.80	-113.56	-77.76	-54.00	23.76	PK	Vertical	ERP
5	501.600	28.72	-103.84	-75.12	-54.00	21.12	PK	Vertical	ERP
6	899.535	28.62	-95.13	-66.51	-36.00	30.51	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\9		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



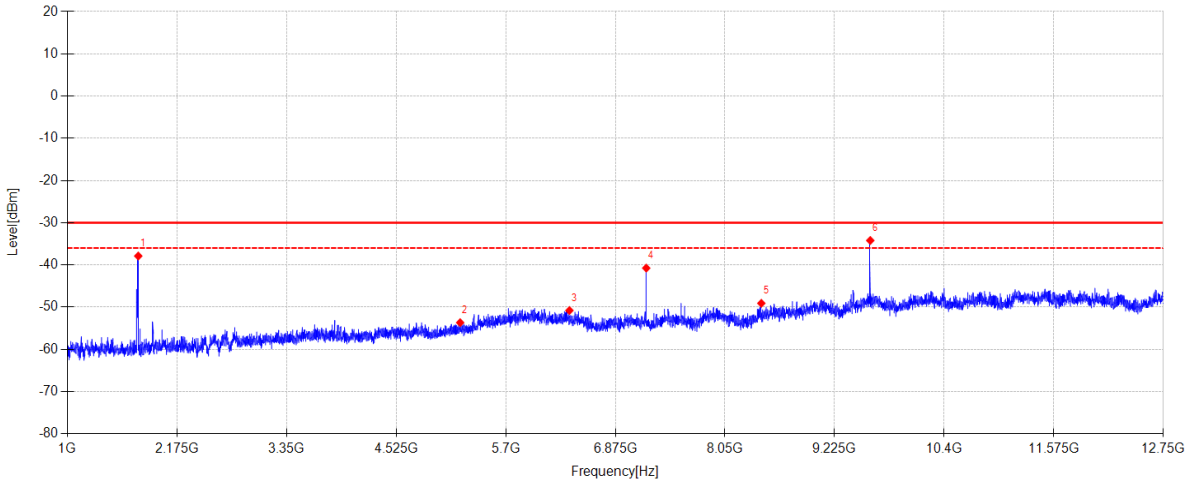
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1749.650	58.10	-103.67	-45.57	**-30.00**	15.57	PK	Horizontal	EIRP
2	2210.250	57.41	-103.15	-45.74	**-30.00**	15.74	PK	Horizontal	EIRP
3	5126.600	44.62	-97.21	-52.59	**-30.00**	22.59	PK	Horizontal	EIRP
4	7206.350	48.87	-94.50	-45.63	**-30.00**	15.63	PK	Horizontal	EIRP
5	9608.050	50.46	-88.54	-38.08	**-30.00**	8.08	PK	Horizontal	EIRP
6	11159.050	41.86	-88.05	-46.19	**-30.00**	16.19	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\10		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1760.225	65.47	-103.36	-37.89	**-30.00**	7.89	PK	Vertical	EIRP
2	5211.200	43.58	-97.25	-53.67	**-30.00**	23.67	PK	Vertical	EIRP
3	6382.675	43.35	-94.14	-50.79	**-30.00**	20.79	PK	Vertical	EIRP
4	7206.350	53.79	-94.54	-40.75	**-30.00**	10.75	PK	Vertical	EIRP
5	8440.100	42.09	-91.17	-49.08	**-30.00**	19.08	PK	Vertical	EIRP
6	9608.050	54.76	-88.97	-34.21	**-30.00**	4.21	PK	Vertical	EIRP

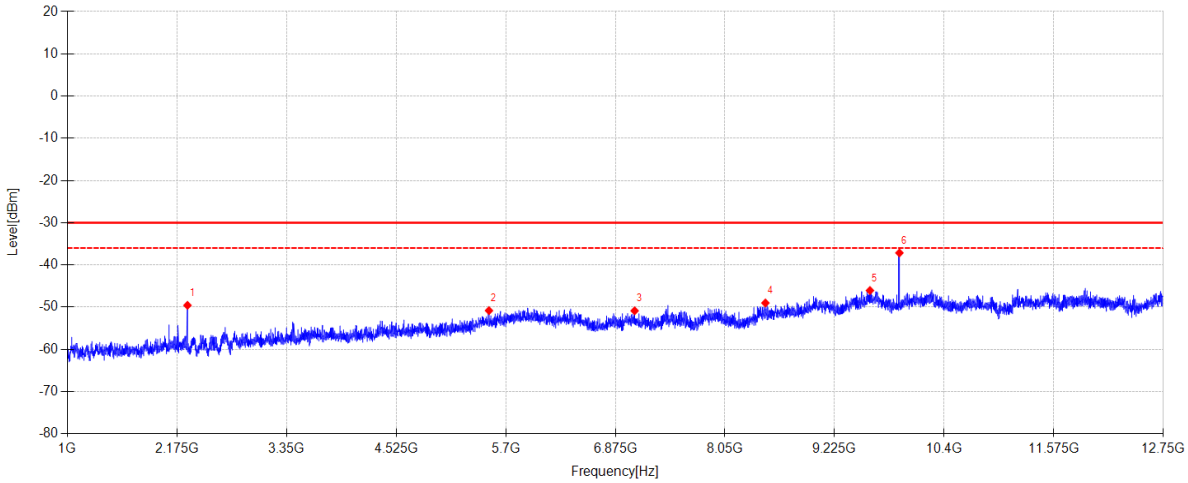
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	RMS Value [dBm]	RMS Limit [dBm]	RMS Margin [dB]	Detector	Polarity	Type
1	9608.059	53.78	-88.97	-35.19	-30.00	5.19	RMS	Vertical	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\11		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



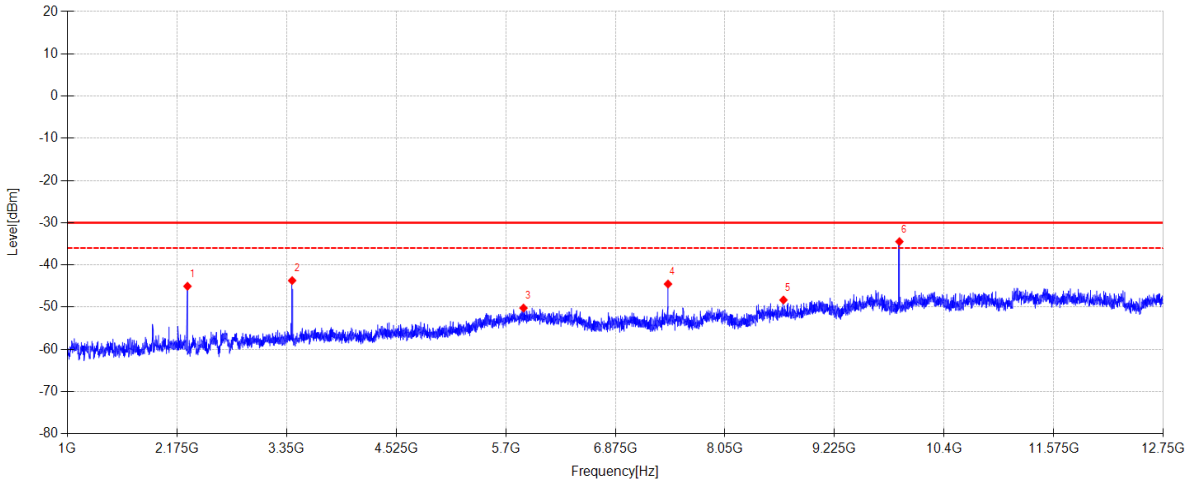
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	2287.800	53.47	-103.04	-49.57	**-30.00**	19.57	PK	Horizontal	EIRP
2	5520.225	44.74	-95.56	-50.82	**-30.00**	20.82	PK	Horizontal	EIRP
3	7081.800	43.93	-94.79	-50.86	**-30.00**	20.86	PK	Horizontal	EIRP
4	8483.575	42.09	-91.10	-49.01	**-30.00**	19.01	PK	Horizontal	EIRP
5	9604.525	42.48	-88.53	-46.05	**-30.00**	16.05	PK	Horizontal	EIRP
6	9920.600	50.97	-88.12	-37.15	**-30.00**	7.15	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz TX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\12		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	2287.800	57.79	-102.84	-45.05	**-30.00**	15.05	PK	Vertical	EIRP
2	3409.925	57.73	-101.43	-43.70	**-30.00**	13.70	PK	Vertical	EIRP
3	5890.350	43.83	-94.04	-50.21	**-30.00**	20.21	PK	Vertical	EIRP
4	7440.175	49.37	-93.89	-44.52	**-30.00**	14.52	PK	Vertical	EIRP
5	8677.450	42.24	-90.55	-48.31	**-30.00**	18.31	PK	Vertical	EIRP
6	9920.600	54.12	-88.60	-34.48	**-30.00**	4.48	PK	Vertical	EIRP

Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	RMS Value [dBm]	RMS Limit [dBm]	RMS Margin [dB]	Detector	Polarity	Type
1	9920.600	52.18	-88.60	-36.42	-30.00	6.42	RMS	Vertical	EIRP

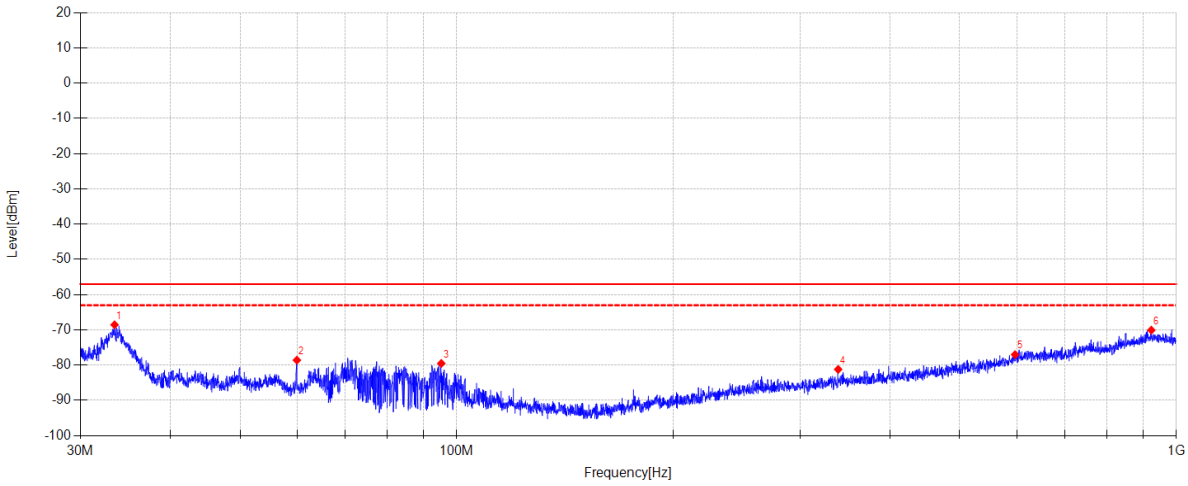
Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

10 Appendix A.10: Test Plots of Receiver Spurious Emission

Note: The EUT without antenna connector.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\12		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



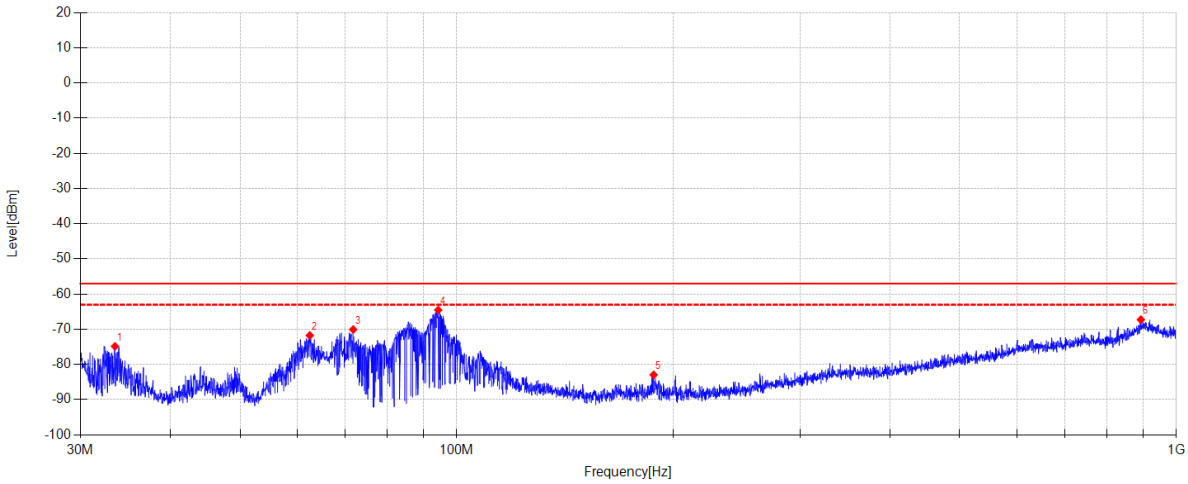
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.468	43.94	-112.49	-68.55	-57.00	11.55	PK	Horizontal	ERP
2	59.977	33.87	-112.46	-78.59	-57.00	21.59	PK	Horizontal	ERP
3	95.204	36.36	-115.88	-79.52	-57.00	22.52	PK	Horizontal	ERP
4	338.948	28.40	-109.62	-81.22	-57.00	24.22	PK	Horizontal	ERP
5	596.866	26.66	-103.68	-77.02	-57.00	20.02	PK	Horizontal	ERP
6	923.178	28.14	-98.21	-70.07	-57.00	13.07	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\13		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



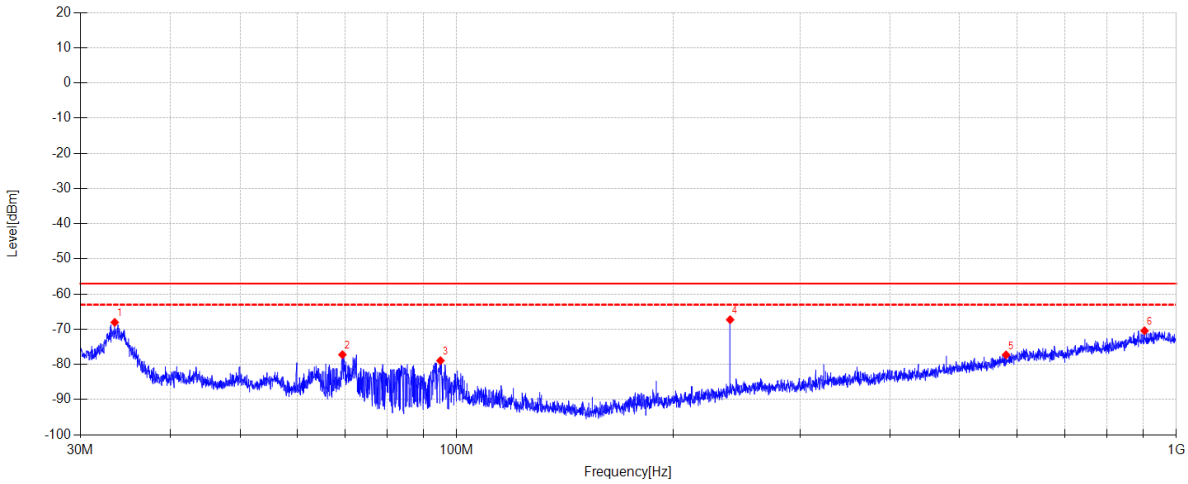
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.515	41.49	-116.34	-74.85	-57.00	17.85	PK	Vertical	ERP
2	62.510	43.73	-115.49	-71.76	-57.00	14.76	PK	Vertical	ERP
3	71.819	47.44	-117.52	-70.08	-57.00	13.08	PK	Vertical	ERP
4	94.274	46.64	-111.17	-64.53	-57.00	7.53	PK	Vertical	ERP
5	187.816	30.61	-113.57	-82.96	-57.00	25.96	PK	Vertical	ERP
6	892.624	28.29	-95.56	-67.27	-57.00	10.27	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\14		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



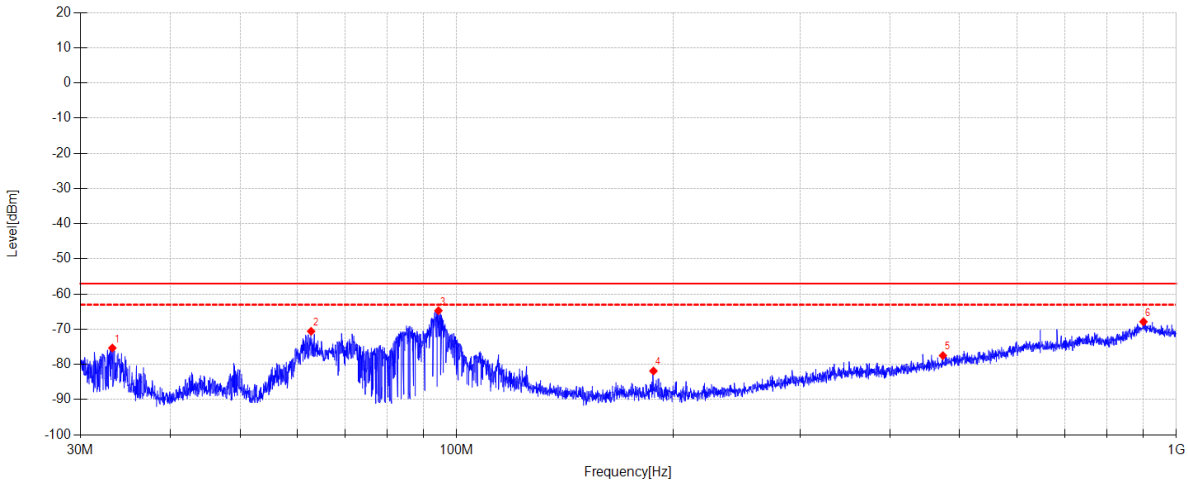
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.491	44.45	-112.48	-68.03	-57.00	11.03	PK	Horizontal	ERP
2	69.394	39.96	-117.19	-77.23	-57.00	20.23	PK	Horizontal	ERP
3	94.938	37.02	-115.94	-78.92	-57.00	21.92	PK	Horizontal	ERP
4	239.888	45.22	-112.51	-67.29	-57.00	10.29	PK	Horizontal	ERP
5	579.952	27.20	-104.47	-77.27	-57.00	20.27	PK	Horizontal	ERP
6	903.328	28.33	-98.76	-70.43	-57.00	13.43	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-29	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE BELOW1G\15		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



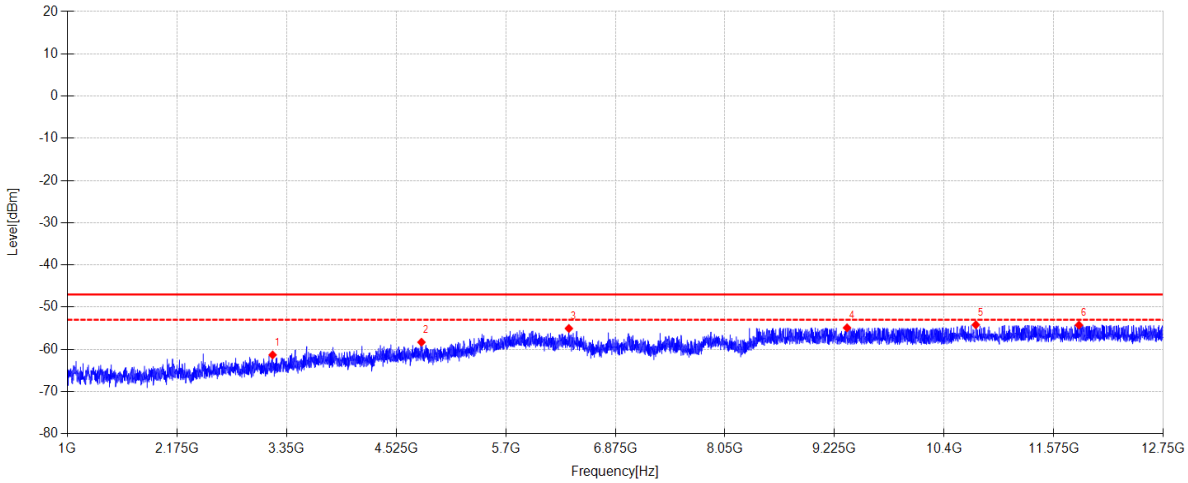
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	33.234	41.03	-116.37	-75.34	-57.00	18.34	PK	Vertical	ERP
2	62.773	44.99	-115.57	-70.58	-57.00	13.58	PK	Vertical	ERP
3	94.341	46.45	-111.16	-64.71	-57.00	7.71	PK	Vertical	ERP
4	187.684	31.71	-113.57	-81.86	-57.00	24.86	PK	Vertical	ERP
5	473.905	27.42	-104.91	-77.49	-57.00	20.49	PK	Vertical	ERP
6	900.166	27.23	-95.10	-67.87	-57.00	10.87	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\13		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



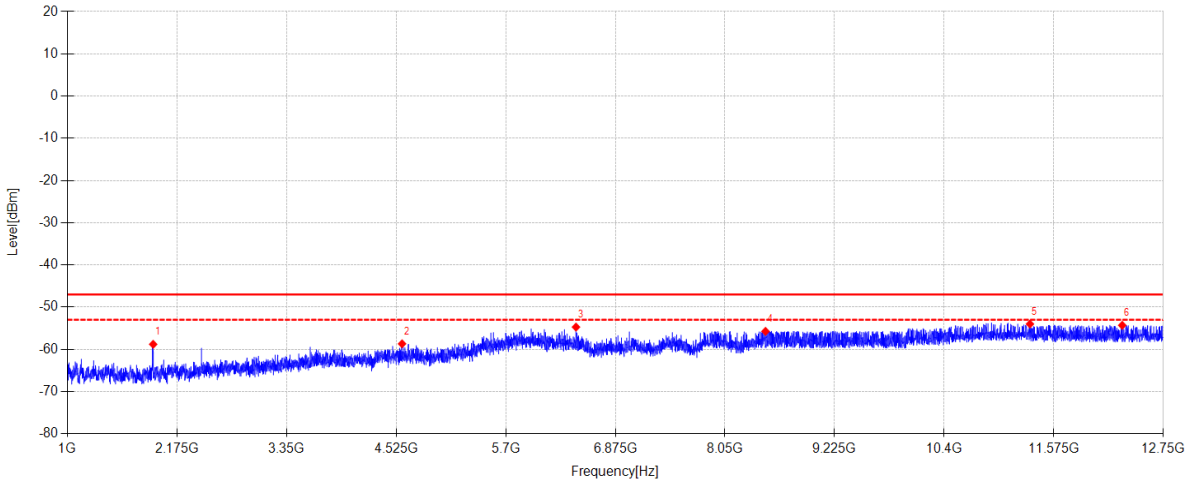
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	3200.775	41.59	-102.91	-61.32	**-47.00**	14.32	PK	Horizontal	EIRP
2	4796.425	40.49	-98.80	-58.31	**-47.00**	11.31	PK	Horizontal	EIRP
3	6376.800	39.45	-94.50	-55.05	**-47.00**	8.05	PK	Horizontal	EIRP
4	9358.950	34.38	-89.27	-54.89	**-47.00**	7.89	PK	Horizontal	EIRP
5	10739.575	34.58	-88.76	-54.18	**-47.00**	7.18	PK	Horizontal	EIRP
6	11845.250	34.45	-88.69	-54.24	**-47.00**	7.24	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2480MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\14		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



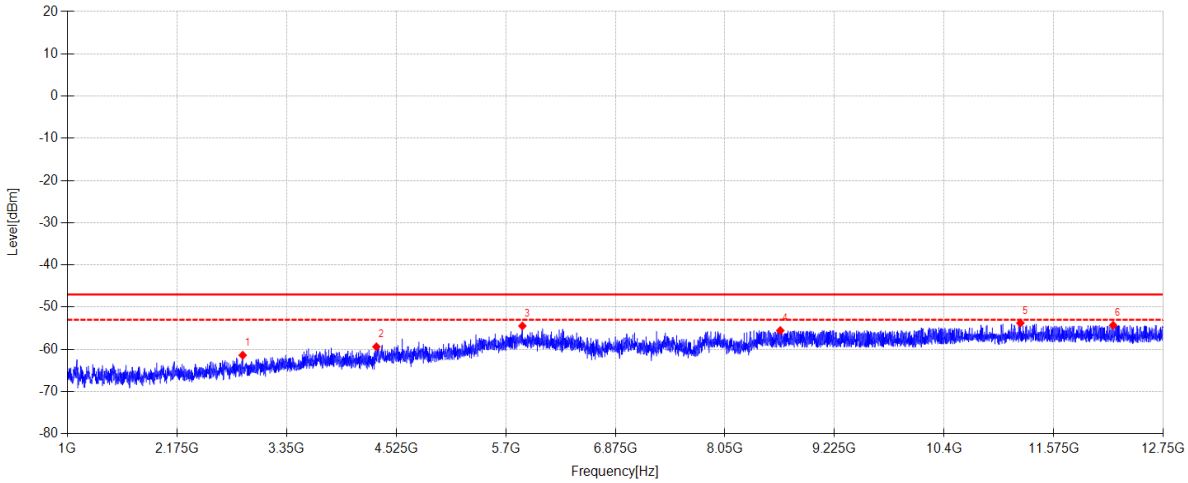
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1920.025	45.62	-104.42	-58.80	**-47.00**	11.80	PK	Vertical	EIRP
2	4588.450	41.03	-99.71	-58.68	**-47.00**	11.68	PK	Vertical	EIRP
3	6453.175	39.94	-94.66	-54.72	**-47.00**	7.72	PK	Vertical	EIRP
4	8484.750	35.67	-91.40	-55.73	**-47.00**	8.73	PK	Vertical	EIRP
5	11320.025	33.68	-87.67	-53.99	**-47.00**	6.99	PK	Vertical	EIRP
6	12309.375	33.98	-88.28	-54.30	**-47.00**	7.30	PK	Vertical	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\15		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



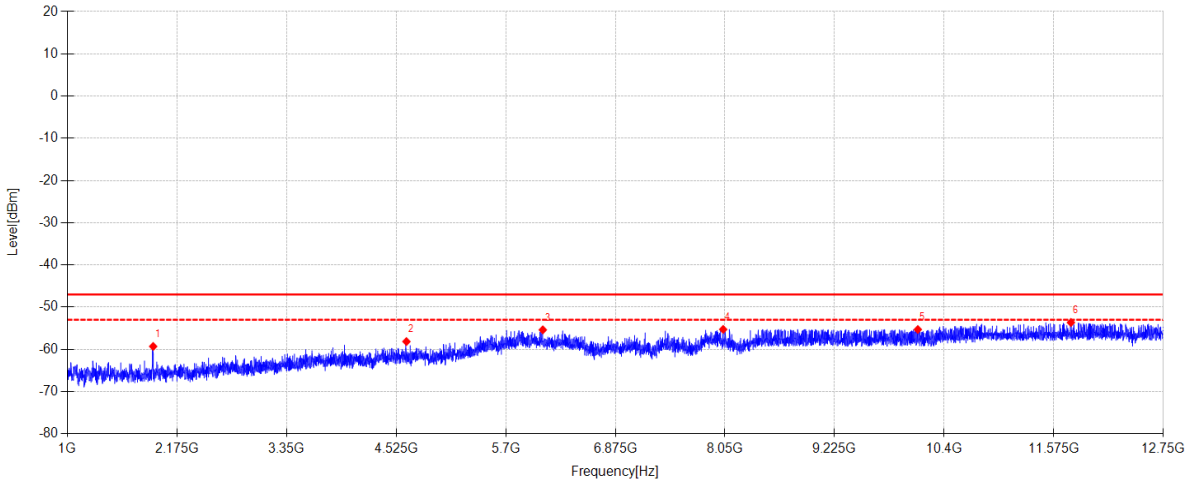
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	2880.000	42.13	-103.52	-61.39	**-47.00**	14.39	PK	Horizontal	EIRP
2	4313.500	40.81	-100.20	-59.39	**-47.00**	12.39	PK	Horizontal	EIRP
3	5878.600	39.96	-94.41	-54.45	**-47.00**	7.45	PK	Horizontal	EIRP
4	8643.375	35.34	-90.88	-55.54	**-47.00**	8.54	PK	Horizontal	EIRP
5	11217.800	35.03	-88.80	-53.77	**-47.00**	6.77	PK	Horizontal	EIRP
6	12211.850	34.39	-88.69	-54.30	**-47.00**	7.30	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2024-11-23	**Tested By**:	Zhong Nan
EUT:	2.0 Gaming Speakers	**Model Number**:	EDF701010
Test Mode:	DH5 2402MHz RX Mode	**Power Supply**:	USB 5V
Condition:	Temp:24.5°C;Humi:47.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24110601-1E\CE ABOVE1G\16		
Memo:	Sample NumberS24110601-001 Power Setting:8		

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	1920.025	45.12	-104.42	-59.30	**-47.00**	12.30	PK	Vertical	EIRP
2	4635.450	41.45	-99.60	-58.15	**-47.00**	11.15	PK	Vertical	EIRP
3	6097.150	38.65	-94.03	-55.38	**-47.00**	8.38	PK	Vertical	EIRP
4	8031.200	37.35	-92.62	-55.27	**-47.00**	8.27	PK	Vertical	EIRP
5	10118.000	33.59	-88.88	-55.29	**-47.00**	8.29	PK	Vertical	EIRP
6	11759.475	34.33	-87.97	-53.64	**-47.00**	6.64	PK	Vertical	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.