



Test report No:

25B0571R.701B

TEST REPORT

Product Name	Bali
Trademark	N/A
Model and /or type reference	LB30001
FCC ID	2A7MGLB30001
Applicant's name / address	hearX USA Inc. 2140 South DuPont Highway Camden, Kent County, DE 19934
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2026-04-12
Report Version	V1.0
Report template No.	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Facility	A2LA (Certificate No. 3235.01) CNAS (Certificate No. L5313) FCC - Designation Number: CN1199 Test Firm Registration Number: 566524 ISED - CAB identifier: CN0040 IC#: 4075B
Date(receive sample)	Feb. 20, 2025
Date (start test)	Mar. 12, 2025
Date (finish test)	Nov. 15, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
25B0571R.701B	V1.0	Initial issue of report.	2026-04-12

TEST SUMMARY

Requirement – Test Item	Standard(s)	Verdict	Remark
20dB Emission Bandwidth	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix
Maximum conducted output power	FCC 15.247(b)(1)	PASS	Test data please refer to Appendix
Carrier Frequency Separation	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix
Time of Occupancy (Dwell Time)	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix
Number of Hopping Frequencies	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix
Band edge measurements	FCC 15.247(d)	PASS	Test data please refer to Appendix
Conducted Spurious Emission	FCC 15.247(d) FCC 15.209	PASS	Test data please refer to Appendix
Duty Cycle	ANSI C63.10	PASS	Test data please refer to Appendix
Emissions in Restricted Bands	FCC 15.247(b)(3)	PASS	Test data please refer to Appendix
AC Power Line Conducted Emission	FCC 15.207	PASS	Test data please refer to Appendix
Antenna Requirement	FCC 15.203	PASS	---
Notes: The radiation measurement is pre tested under X, Y, and Z axis positioning to find the worst placement for final testing.			

USED EQUIPMENT

Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.04.23	2025.04.22
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.02.23	2025.02.22
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2025.03.15	2026.03.14
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2024.05.11	2025.05.10
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.06.17	2026.06.16
MAX Signal Analyzer	Agilent	N9020A	MY49100159	2024.09.23	2025.09.22
MAX Signal Analyzer	Agilent	N9020A	MY49100159	2025.10.13	2026.10.14
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25
Vector Signal Genertor	R&S	SMM 100A	101853	2024.08.13	2025.08.12
Vector Signal Genertor	R&S	SMM 100A	101853	2025.09.20	2026.09.19
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.04.22	2025.04.21
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2025.05.10	2026.05.09
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A

Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Anechoic chamber	Quietek	9m*6m*6m	AC2	2024.07.07	2027.07.06
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.02.10	2025.02.09
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2025.03.24	2026.03.23
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.03.15	2025.03.14
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2025.04.30	2026.04.29
Dekra test software	Dekra	N/A	N/A	N/A	N/A

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Shielding room	Quietek	4.9m*4m*3m	TR1	2023.03.04	2028.03.03
EMI Test Receiver	R&S	ESR7	102086	2025.01.11	2026.01.10
Two-Line V-Network	R&S	ENV216	101189	2024.03.14	2025.03.13
Two-Line V-Network	R&S	ENV216	101189	2025.05.10	2026.05.09
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2024.02.25	2025.02.24
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2025.03.16	2026.03.15
Temperature/Humidity Meter	RTS	RTS-1909	THM-012	2024.04.12	2025.04.11
Temperature/Humidity Meter	RTS	RTS-1909	THM-012	2025.04.30	2026.04.29
Dekra test software	Dekra	N/A	N/A	N/A	N/A

Radiated Emission Band Edge(1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Anechoic chamber	Quietek	9m*6m*6m	AC5	2024.07.07	2027.07.06
DRG Horn Antenna	ETS-Lindgren	3117	167055	2024.07.10	2025.07.09
DRG Horn Antenna	ETS-Lindgren	3117	167055	2025.08.14	2026.08.13
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2024.05.12	2025.05.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2025.06.22	2026.06.21
MXA Signal Analyzer	Keysight	N9020B	MY60112218	2024.08.13	2025.08.12
MXA Signal Analyzer	Keysight	N9020B	MY60112218	2025.09.20	2026.09.19
Pre-Amplifier	XH	LNA1845	LNA23040284	2024.03.23	2025.03.22
Pre-Amplifier	XH	LNA1845	LNA23040284	2025.05.17	2026.05.16
Pre-Amplifier	CY	EMC184045SE	980263	2024.04.20	2025.04.19
Pre-Amplifier	CY	EMC184045SE	980263	2025.05.10	2026.05.09
Filter Switch Box	MVE	MSW-F196	C070001S	2024.02.21	2025.02.20
Filter Switch Box	MVE	MSW-F196	C070001S	2025.03.15	2026.03.14
Temperature/Humidity Meter	RTS	RTS-1909	THM-001	2024.07.30	2025.07.29
Temperature/Humidity Meter	RTS	RTS-1909	THM-001	2025.08.22	2026.08.21
Temperature/Humidity Meter	RTS	RTS-1909	THM-024	2024.04.25	2025.04.24
Temperature/Humidity Meter	RTS	RTS-1909	THM-024	2025.04.30	2026.04.29
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.04.23	2025.04.22
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09
Test Software	Tonscend	JS1120	JS36-RE	N/A	N/A

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test item Test Location	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.5 dB 300MHz~1GHz: 3.6 dB Vertical: 30MHz~200MHz: 3.6 dB 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.0 dB Vertical: 1GHz~18GHz: 4.8 dB Horizontal: 18GHz~26.5GHz: 5.3 dB Vertical: 18GHz~26.5GHz: 4.9 dB
RF antenna conducted test	± 1.3 dB
Carrier Frequency Separation	± 1.0 kHz
Number of Hopping Frequencies	± 1.0 kHz
Time of Occupancy (Dwell Time)	± 0.10 us
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

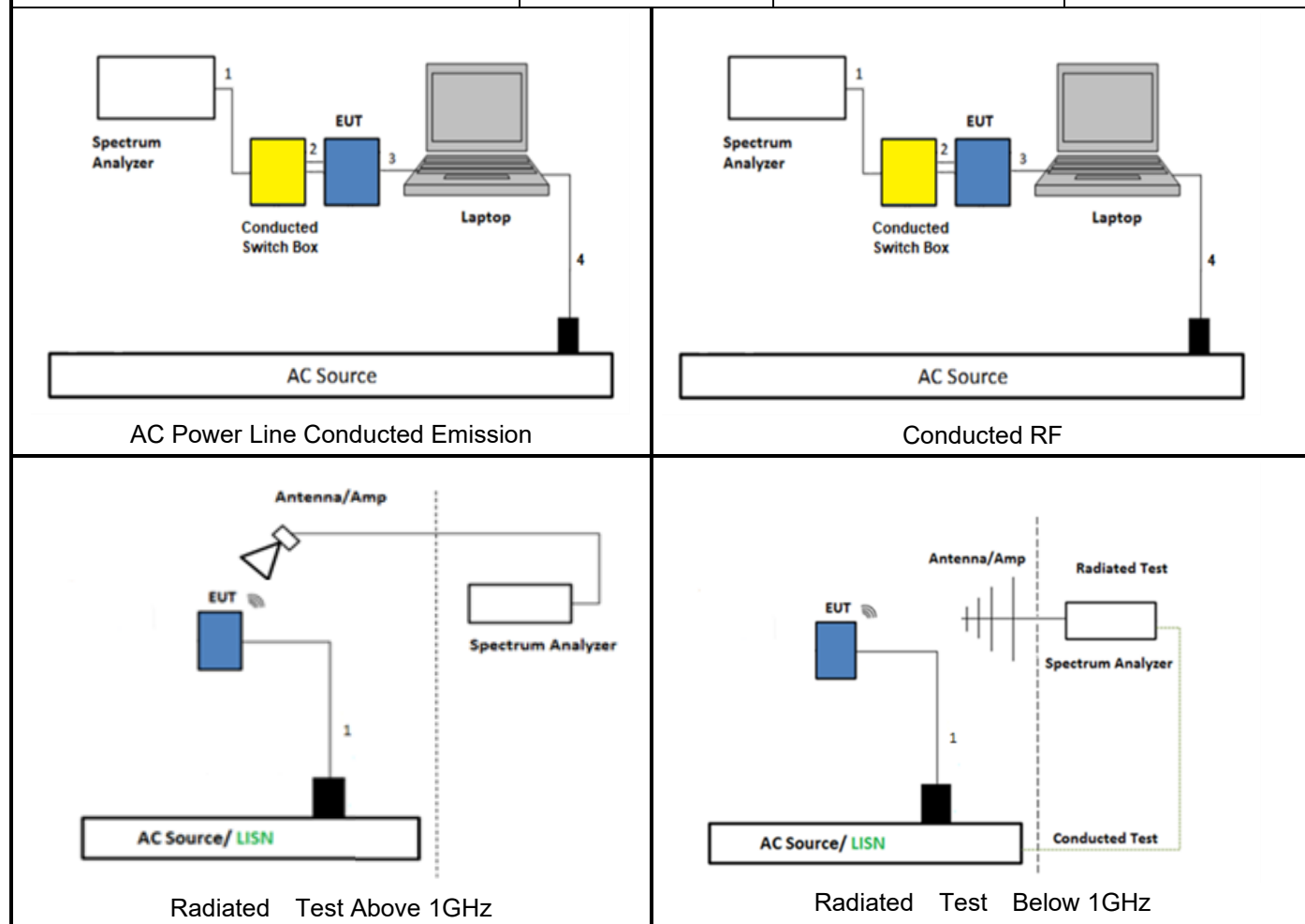
Product Name	Bali
Model Name	LB30001
Trademark.	N/A
FCC ID.....	2A7MGLB30001
Power Supply	3.85 Vdc, EUT is equipped with an adapter to power it via AC/DC.
Hardware Version.....	V4.00
Software Version	1.2.0.5
Manufacturer	Orka Health Co.,Ltd
Manufacturer Address	Room 01B101, Building 2, No. 118 Rongke Road, Shanghai, China
Wireless specification	Bluetooth
Operating frequency range(s)	2402~2480MHz
Type of modulation	GFSK
Number of channels	79
Data Rate	GFSK 1Mbit/s, Pi/4 DQPSK 1Mbit/s, 8DPSK 3Mbit/s
Antenna type	PIFA
Antenna Gain	-1.70 dBi
Remark: As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

Power setting in test

Mode	Power setting
BR / EDR	Default

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) Ethernet cable	N/A	N/A	N/A
(3) Ethernet cable	N/A	N/A	N/A
Software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A



Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2) Ethernet cable	1	☒	☒
(3) Ethernet cable	8	☒	☒

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2020	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

4 TEST RESULTS

4.1 AC Power Line Conducted Emission

VERDICT: PASS

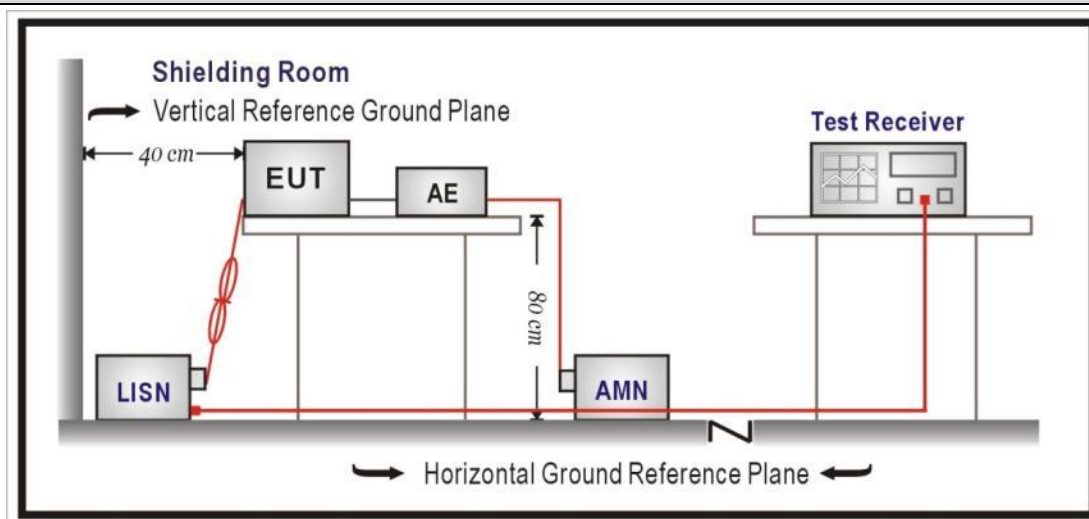
4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.2 Emissions in restricted frequency bands**VERDICT: PASS****4.2.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.205; 15.209
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Restricted Bands of operation for FCC

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	Above 38.6
13.36 – 13.41	--	--	--

Restricted Band Emissions Limit

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 ^(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 ^(Note 1)
1.705 - 30	30	29.5	30 ^(Note 1)
30 - 88	100	40	3 ^(Note 2)
88 - 216	150	43.5	3 ^(Note 2)
216 - 960	200	46	3 ^(Note 2)
Above 960	500	54	3 ^(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

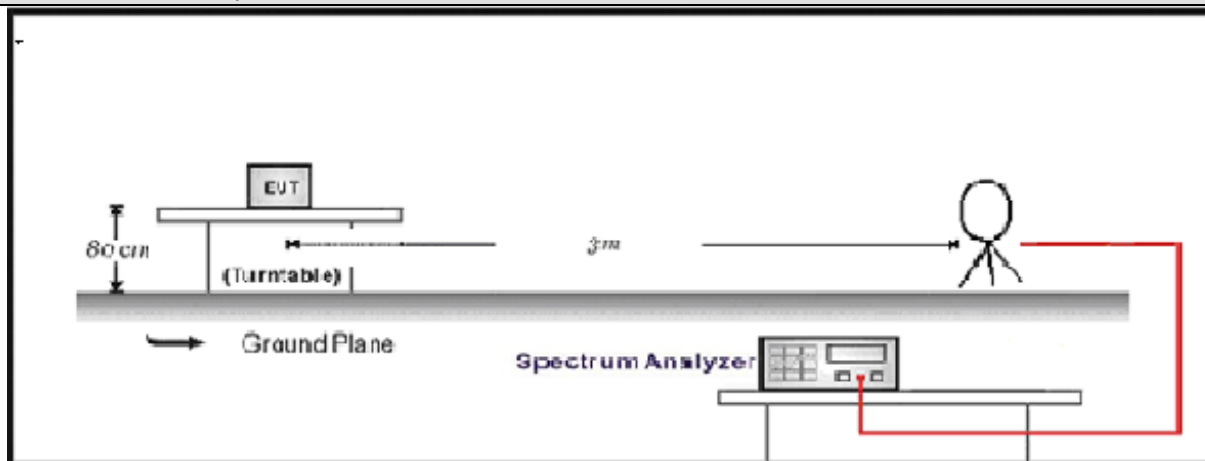
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment.

Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20

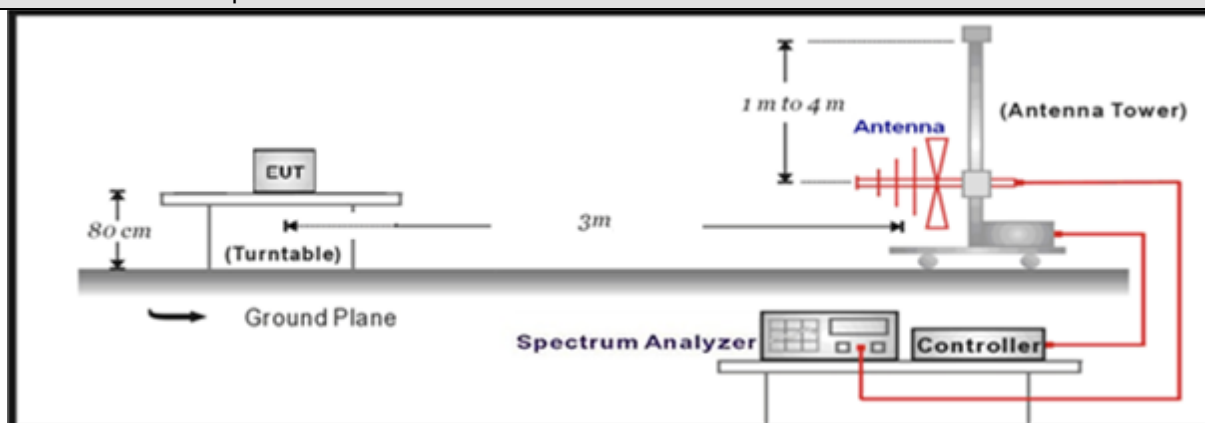
dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

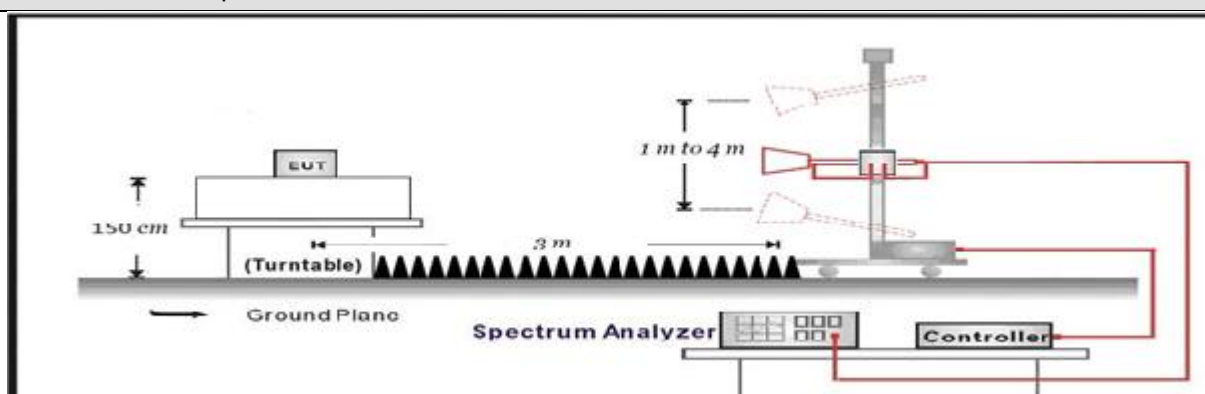
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

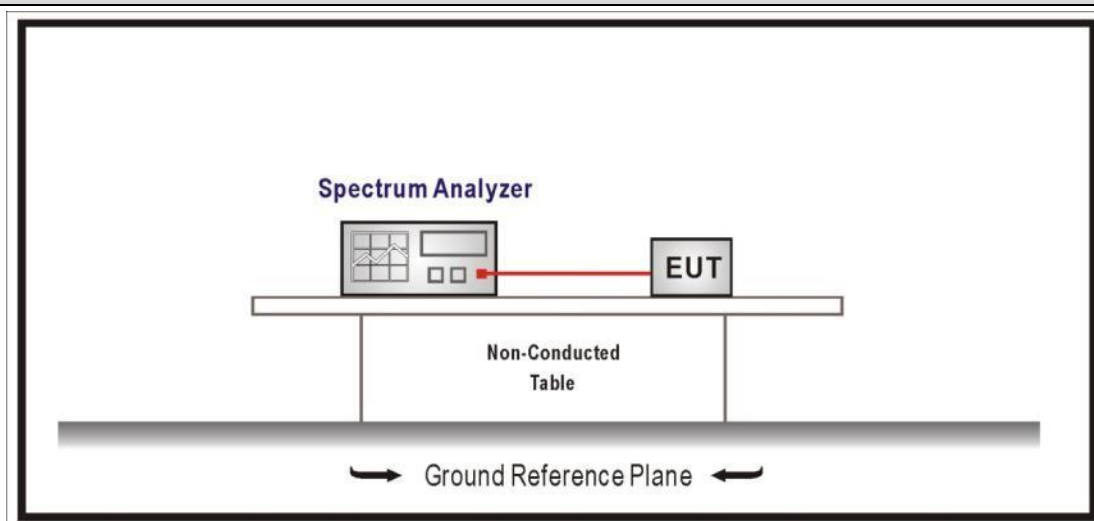
	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	6.3	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Emissions in non-restricted frequency band**VERDICT: PASS****4.3.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

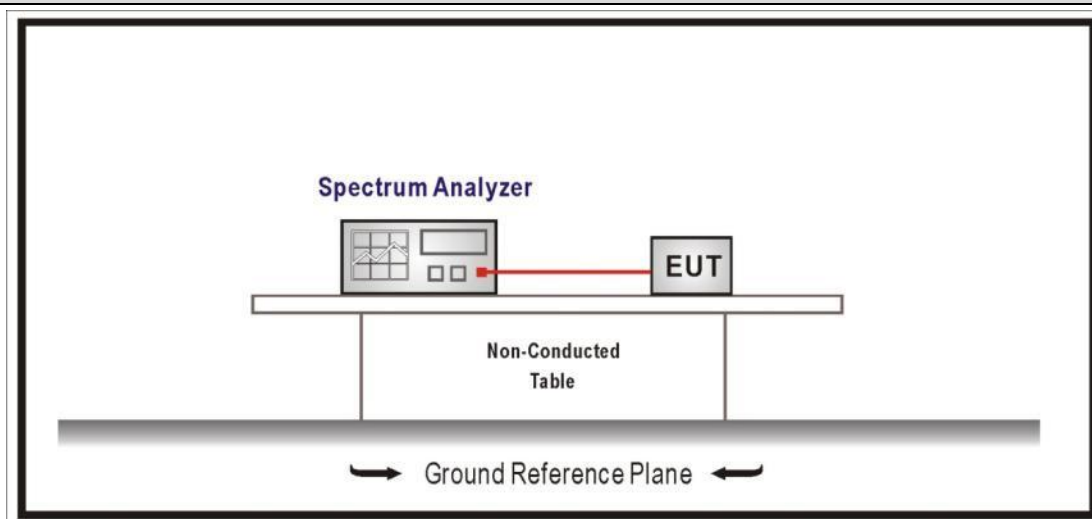
Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.3.2 Test Setup**4.3.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	7.8.7	Conducted spurious emissions test methodology
☒	ANSI C63.10	7.8.7.1	General
☒	ANSI C63.10	7.8.7.2	Band-edges

4.4 Duty cycle**VERDICT: PASS****4.4.1 Limit**

N/A

4.4.2 Test Setup**4.4.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

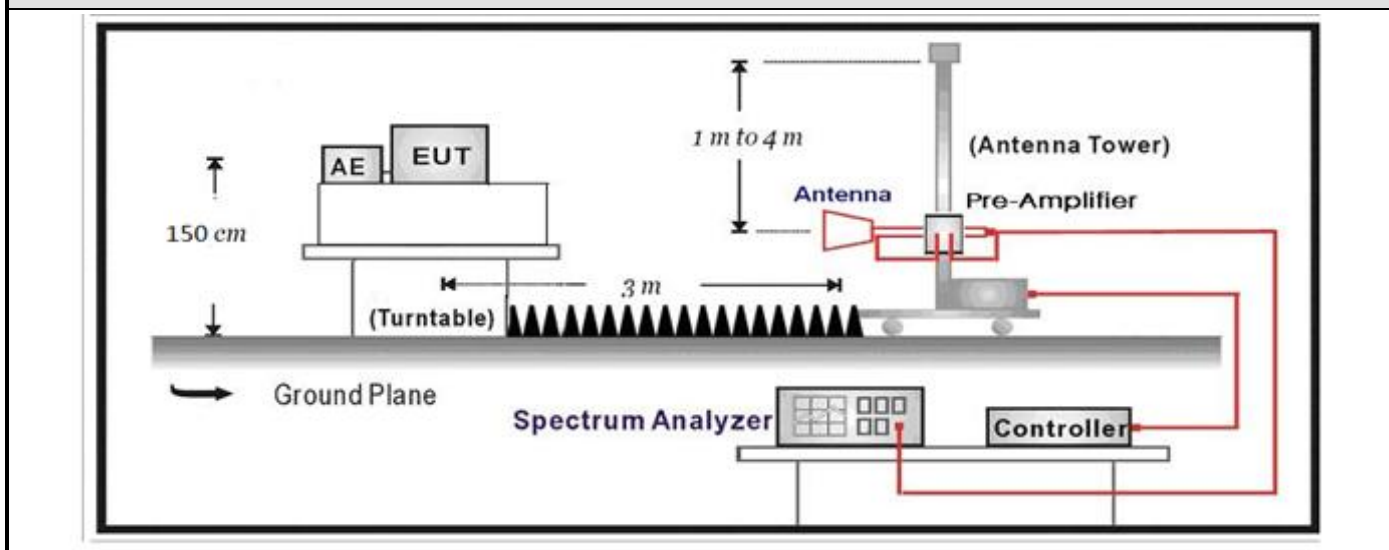
4.5 Radiated Emission Band Edge**VERDICT: PASS****4.5.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.205, 15.209		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.5.2 Test Setup

Above 1GHz Test Setup:

**4.5.3 Test Procedure**

	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.8	Band-edge testing

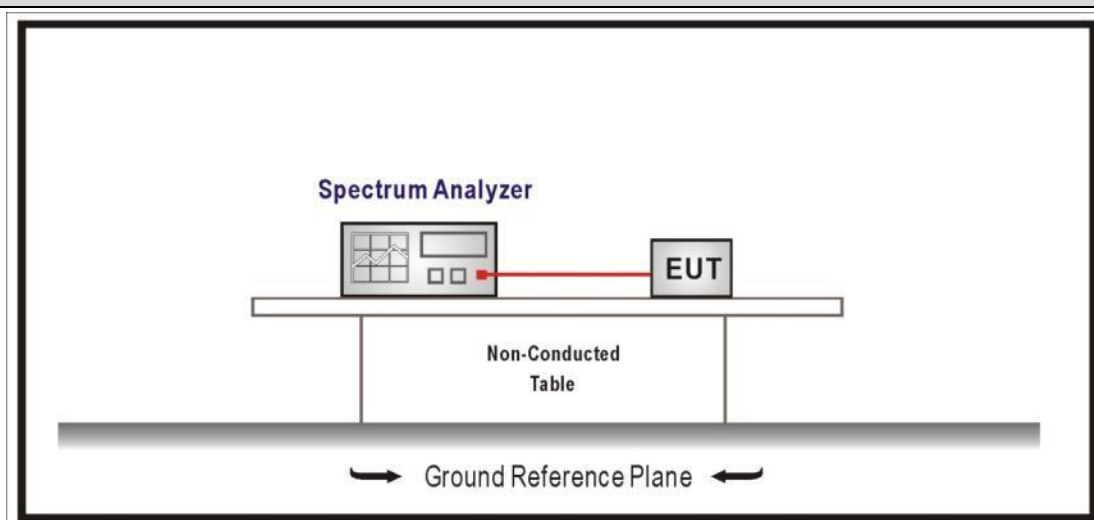
4.6 20dB Emission Bandwidth**VERDICT: PASS****4.6.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
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Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

Standard	ANSI C63.10 Paragraph 6.7
-----------------	---------------------------

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should be within the required frequency range.

4.6.2 Test Setup**4.6.3 Test Procedure**

	Reference Rule	Chapter	Description
☒	ANSI C63.10	7.8.6	Occupied bandwidth

4.7 Fundamental emission output power

VERDICT: PASS

4.7.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
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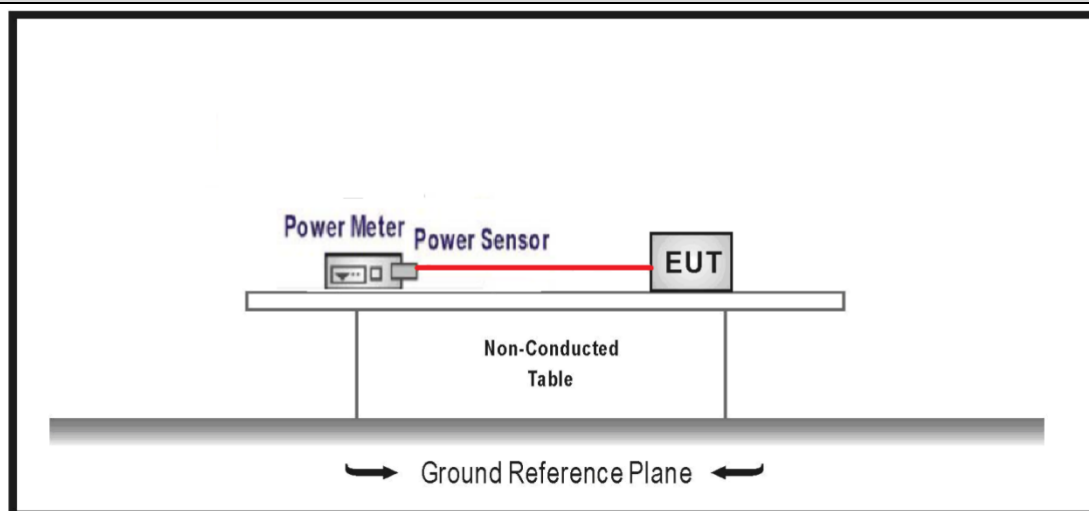
Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.7.2 Test Setup



4.7.3 Test Procedure

	References Rule			Chapter	Description
☒	ANSI C63.10			11.9	Fundamental emission output power
	☒	ANSI C63.10		11.9.1	Maximum peak conducted output power
		☐	ANSI C63.10	11.9.1.1	RBW $\geq$ DTS bandwidth
		☒	ANSI C63.10	11.9.1.2	PKPM1 Peak power meter method

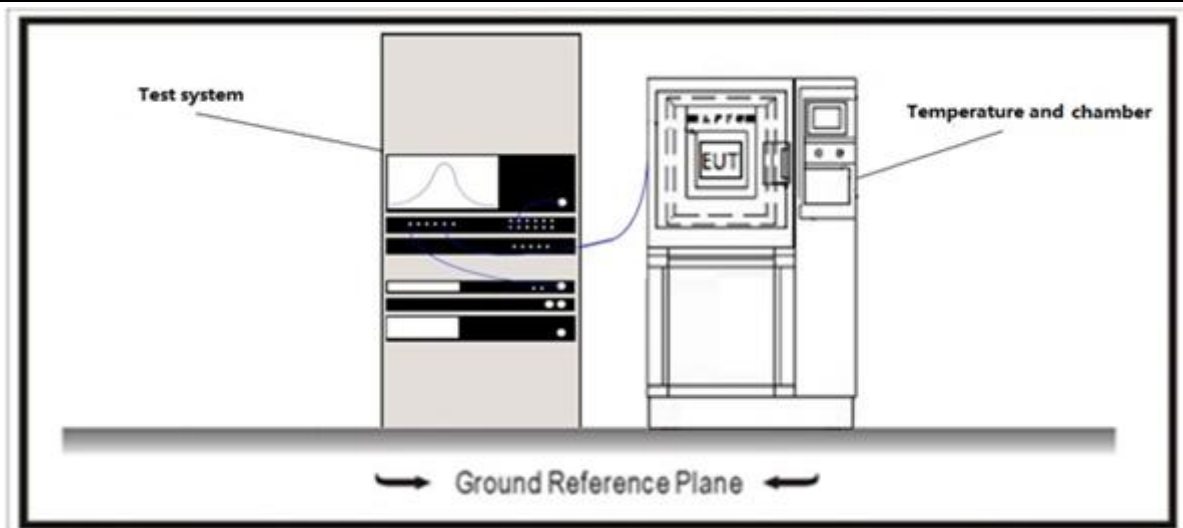
4.8 Carrier Frequency Separation

VERDICT: PASS

4.8.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☐	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel.
☐	The 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;
☐	The 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

4.8.2 Test Setup

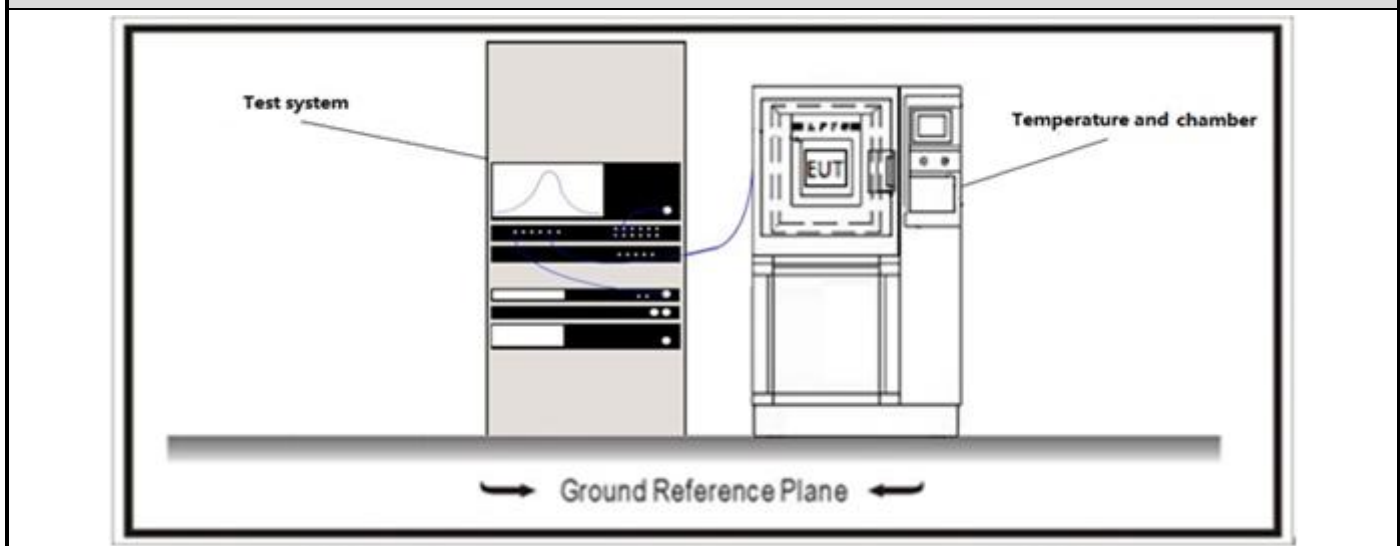


4.9.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.2	Carrier frequency separation

4.9 Time of Occupancy**VERDICT: PASS****4.9.1 Limit**

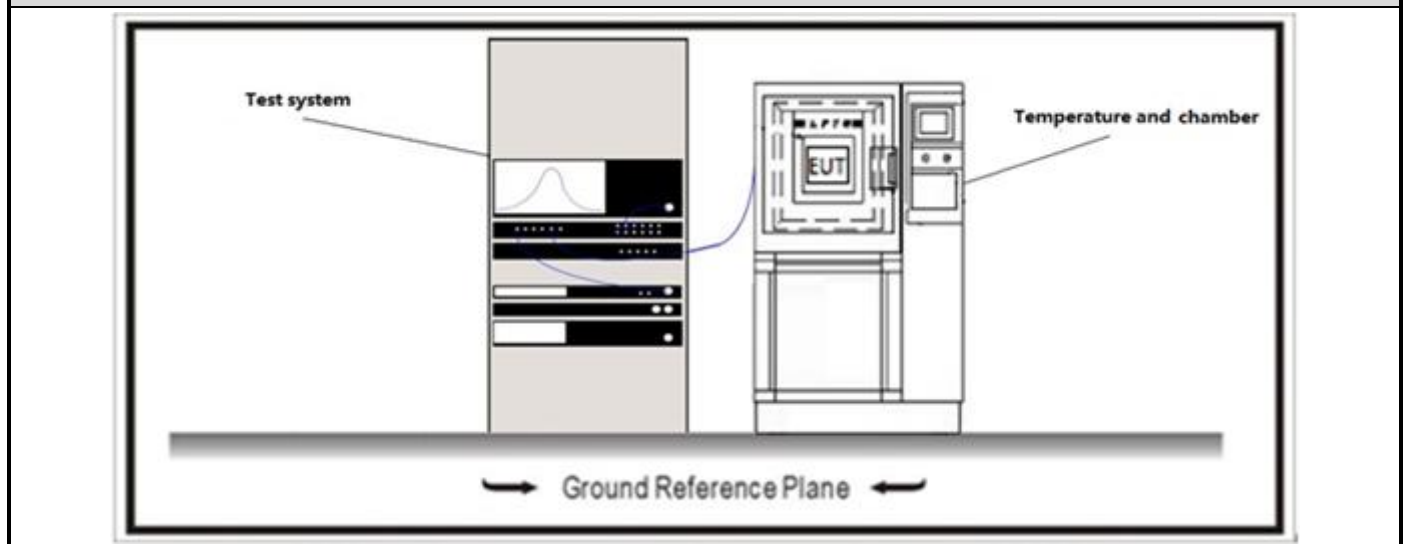
Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

4.9.2 Test Setup**4.9.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.4	Time of occupancy (dwell time)

4.10 Number of hopping Frequencies**VERDICT: PASS****4.10.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
☐	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

4.10.2 Test Setup**4.10.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8.	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.3	Number of Hopping Frequencies

4.11 Antenna Requirement**VERDICT: PASS****4.11.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

4.11.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☒ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

Appendix

Maximum conducted output power

Left Ear					
Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Verdict
DH5	00	2402	1.39	≤30	Pass
	39	2441	1.82	≤30	Pass
	79	2480	2.47	≤30	Pass
2DH5	00	2402	1.34	≤30	Pass
	39	2441	1.70	≤30	Pass
	79	2480	2.42	≤30	Pass
3DH5	00	2402	1.20	≤30	Pass
	39	2441	1.68	≤30	Pass
	79	2480	2.35	≤30	Pass

Right Ear					
Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Verdict
DH5	00	2402	2.58	≤30	Pass
	39	2441	3.37	≤30	Pass
	79	2480	3.69	≤30	Pass
2DH5	00	2402	2.48	≤30	Pass
	39	2441	3.32	≤30	Pass
	79	2480	3.70	≤30	Pass
3DH5	00	2402	2.47	≤30	Pass
	39	2441	3.32	≤30	Pass
	79	2480	3.68	≤30	Pass

20dB Emission Bandwidth Test Result

Left Ear

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.526	2402.471	N/A	PASS
DH5	Ant1	2441	0.954	2440.538	2441.492	N/A	PASS
DH5	Ant1	2480	1.041	2479.475	2480.516	N/A	PASS
2DH5	Ant1	2402	1.209	2401.385	2402.594	N/A	PASS
2DH5	Ant1	2441	1.236	2440.364	2441.600	N/A	PASS
2DH5	Ant1	2480	1.215	2479.376	2480.591	N/A	PASS
3DH5	Ant1	2402	1.281	2401.340	2402.621	N/A	PASS
3DH5	Ant1	2441	1.272	2440.346	2441.618	N/A	PASS
3DH5	Ant1	2480	1.254	2479.352	2480.606	N/A	PASS

Right Ear

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.059	2401.463	2402.522	N/A	PASS
DH5	Ant1	2441	0.984	2440.532	2441.516	N/A	PASS
DH5	Ant1	2480	1.044	2479.475	2480.519	N/A	PASS
2DH5	Ant1	2402	1.335	2401.325	2402.660	N/A	PASS
2DH5	Ant1	2441	1.263	2440.370	2441.633	N/A	PASS
2DH5	Ant1	2480	1.233	2479.367	2480.600	N/A	PASS
3DH5	Ant1	2402	1.308	2401.340	2402.648	N/A	PASS
3DH5	Ant1	2441	1.296	2440.352	2441.648	N/A	PASS
3DH5	Ant1	2480	1.293	2479.340	2480.633	N/A	PASS

Test Graphs

Left Ear





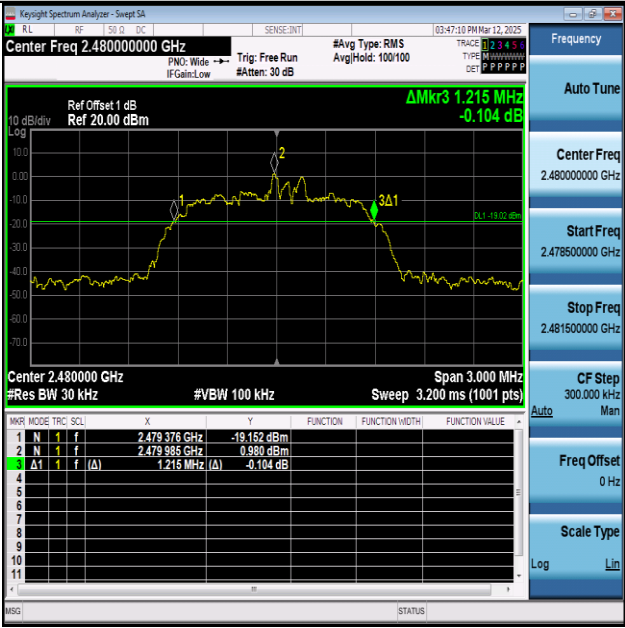
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

Right Ear





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



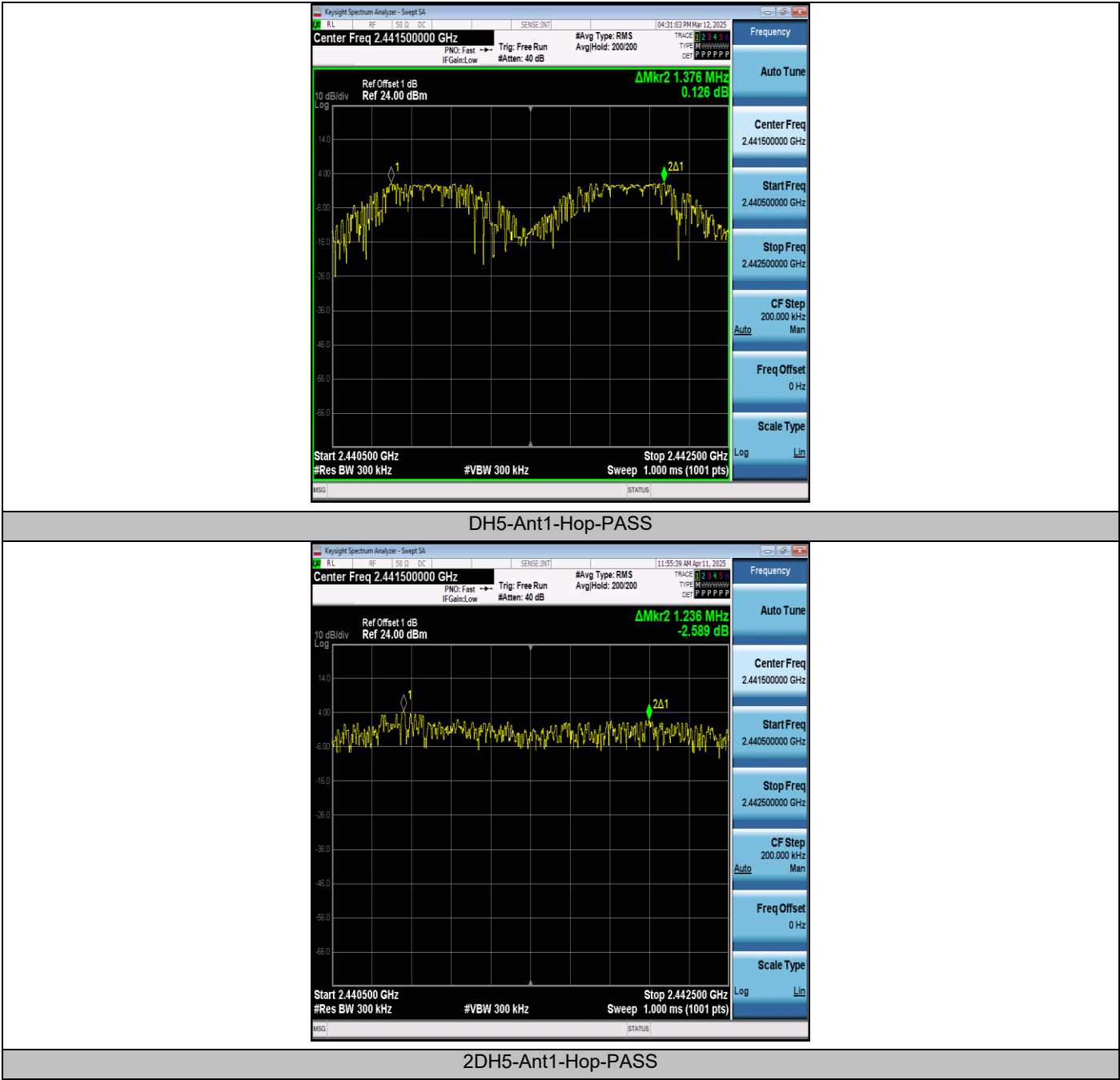
3DH5-Ant1-2480

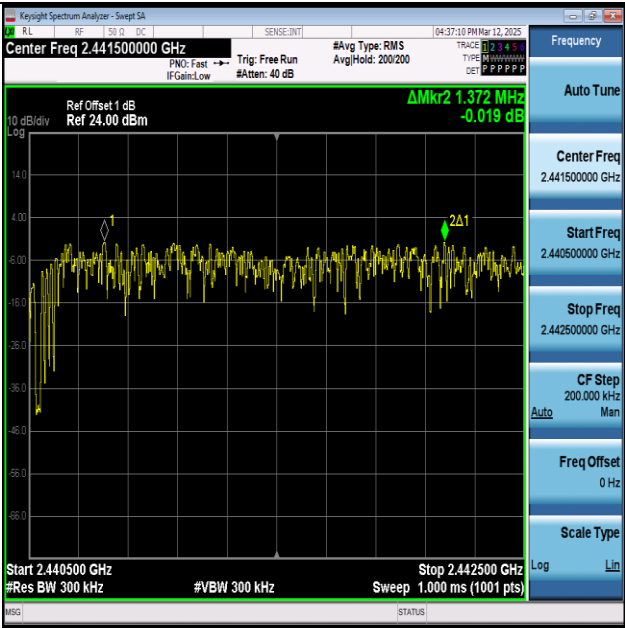
Carrier frequency separation Test Result

Test Mode	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5 (Left Ear)	Hop	1.376	≥ 0.63	PASS
2DH5 (Left Ear)	Hop	1.236	≥ 0.81	PASS
3DH5 (Left Ear)	Hop	1.372	≥ 0.83	PASS
DH5 (Right Ear)	Hop	1.334	≥ 0.65	PASS
2DH5 (Right Ear)	Hop	1.378	≥ 0.82	PASS
3DH5 (Right Ear)	Hop	1.372	≥ 0.86	PASS

Test Graphs

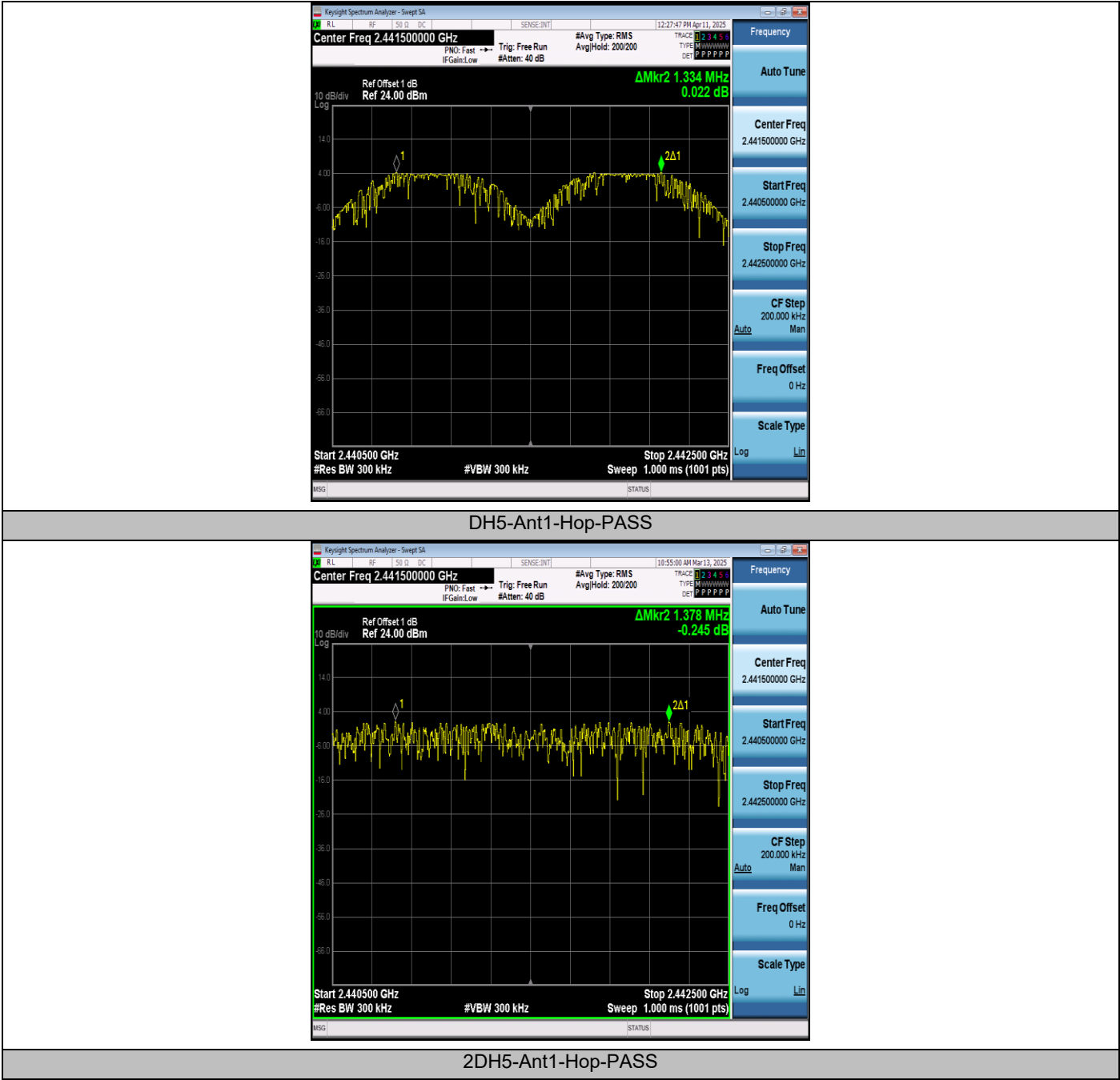
Left Ear

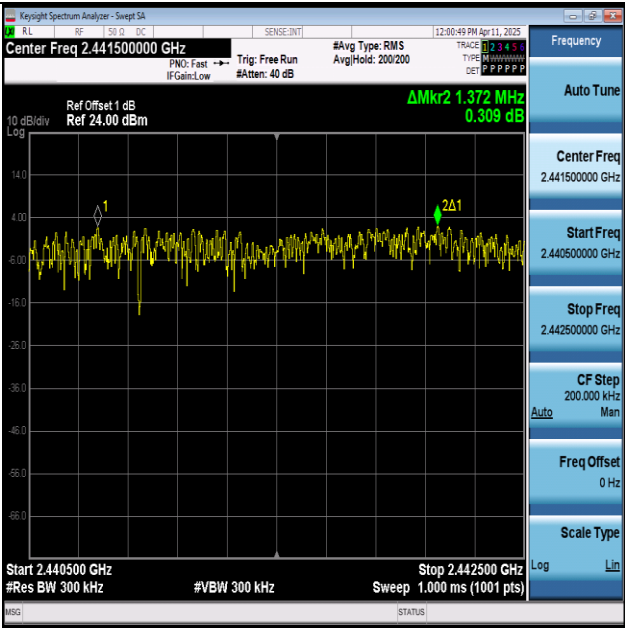




3DH5-Ant1-Hop-PASS

Right Ear





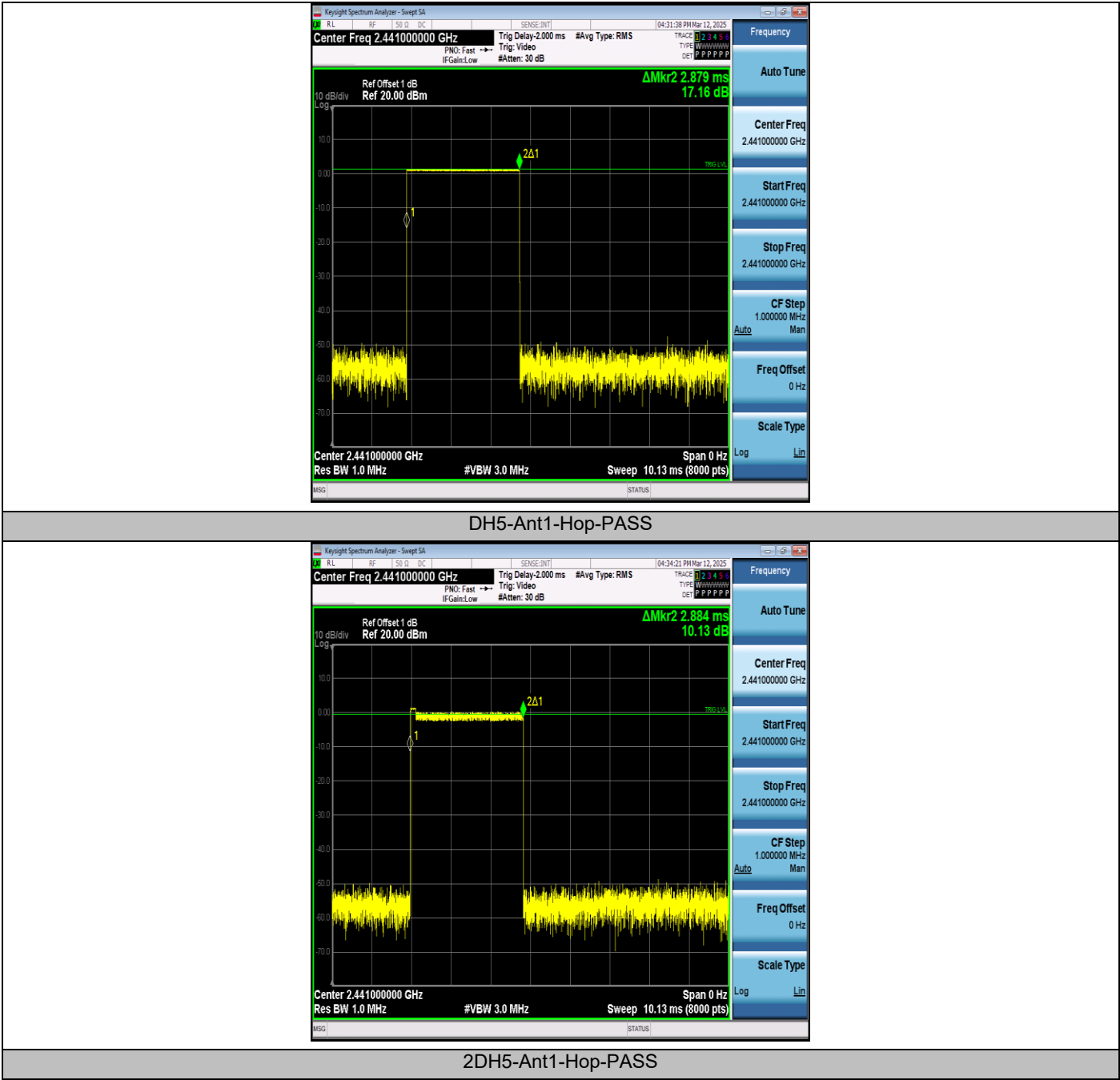
3DH5-Ant1-Hop-PASS

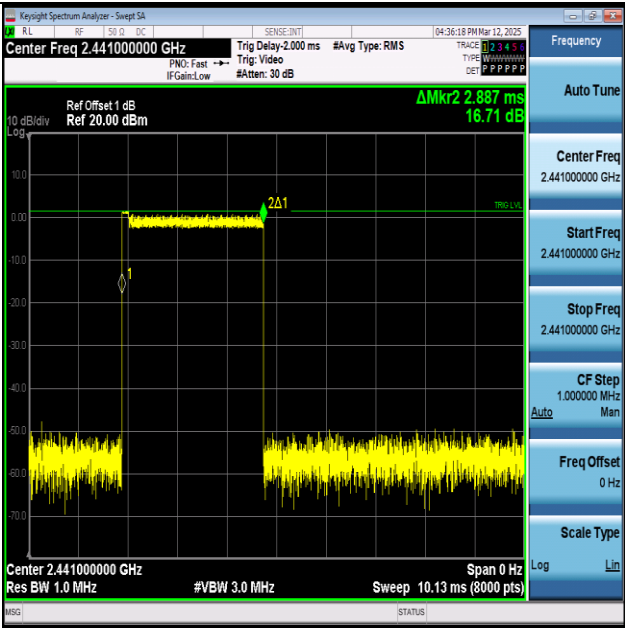
Time of occupancy Test Result

Test Mode	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5 (Left Ear)	Hop	2.879	107	0.307	≤0.4	PASS
2DH5 (Left Ear)	Hop	2.884	107	0.308	≤0.4	PASS
3DH5 (Left Ear)	Hop	2.887	107	0.308	≤0.4	PASS
DH5 (Right Ear)	Hop	2.880	107	0.307	≤0.4	PASS
2DH5 (Right Ear)	Hop	2.885	107	0.308	≤0.4	PASS
3DH5 (Right Ear)	Hop	2.885	107	0.308	≤0.4	PASS

Test Graphs

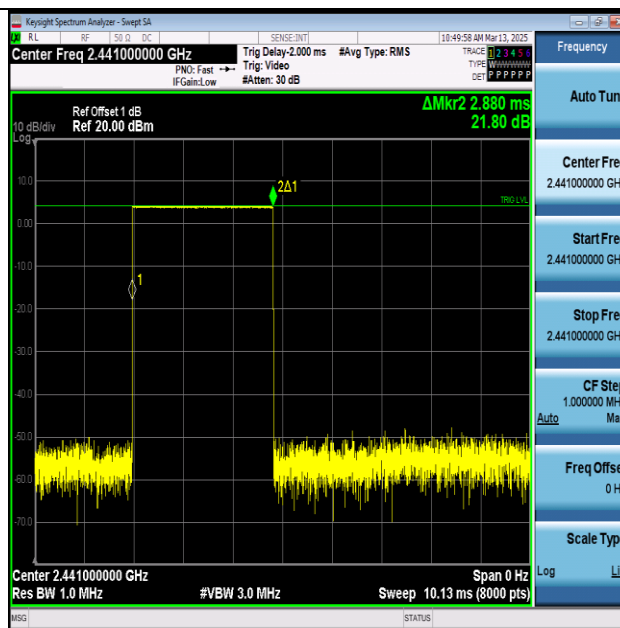
Left Ear



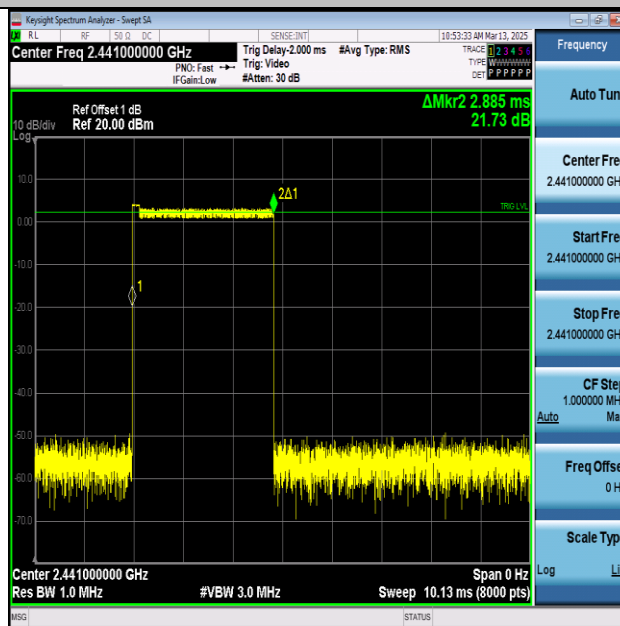


3DH5-Ant1-Hop-PASS

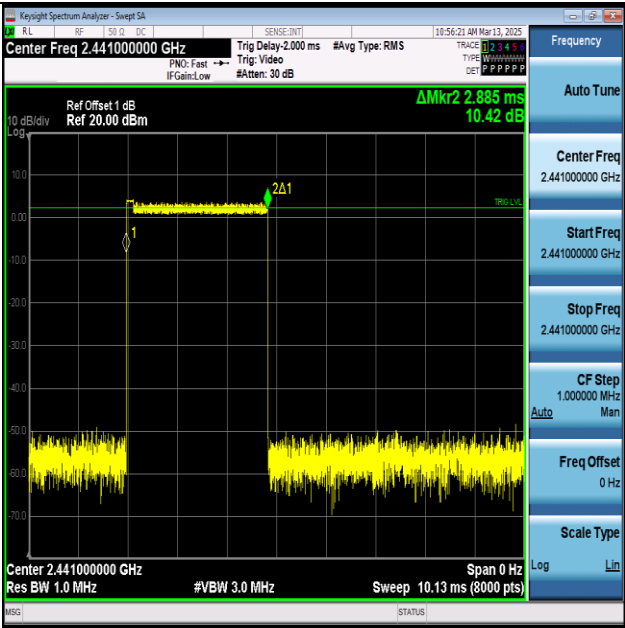
Right Ear



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



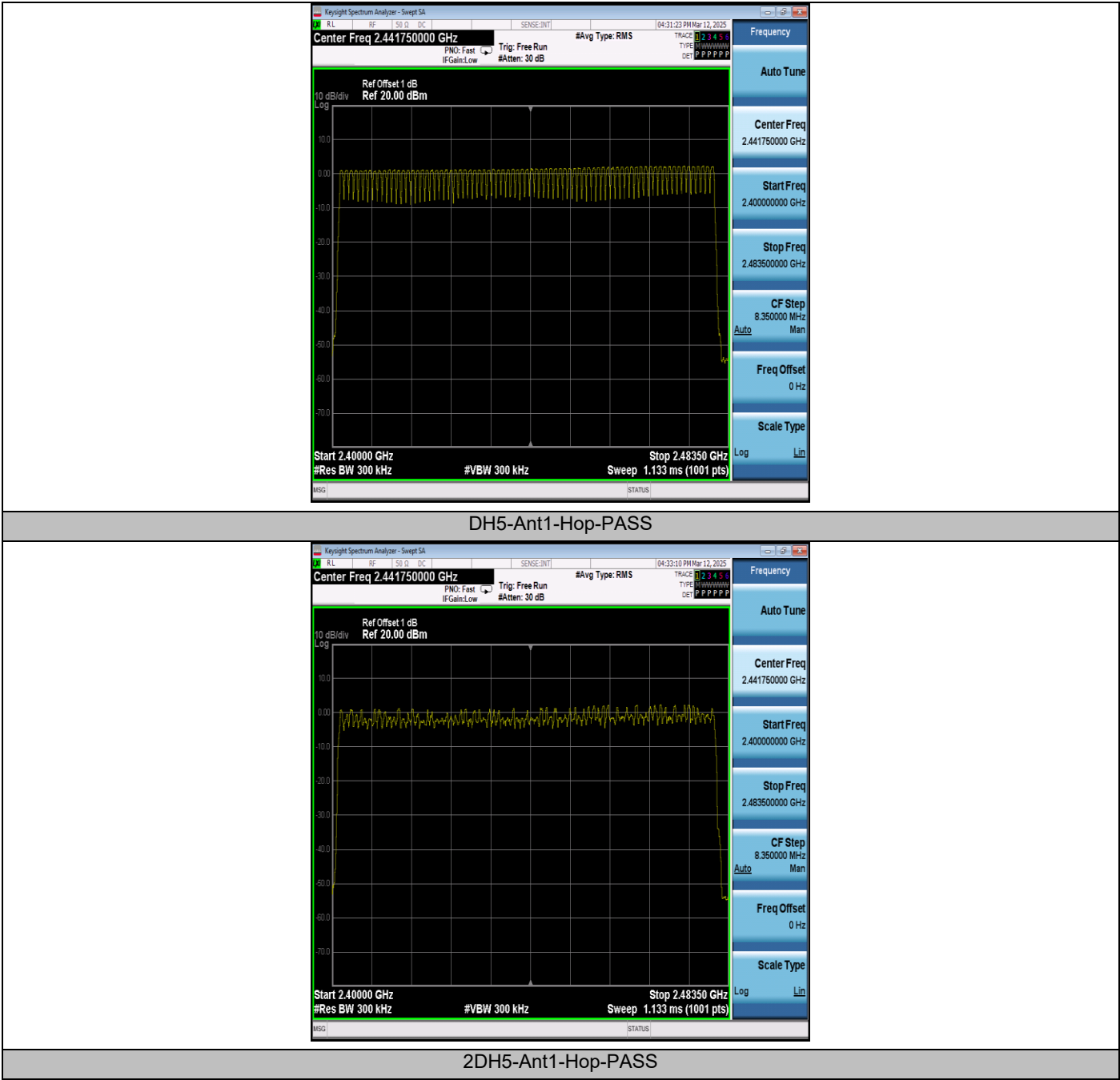
3DH5-Ant1-Hop-PASS

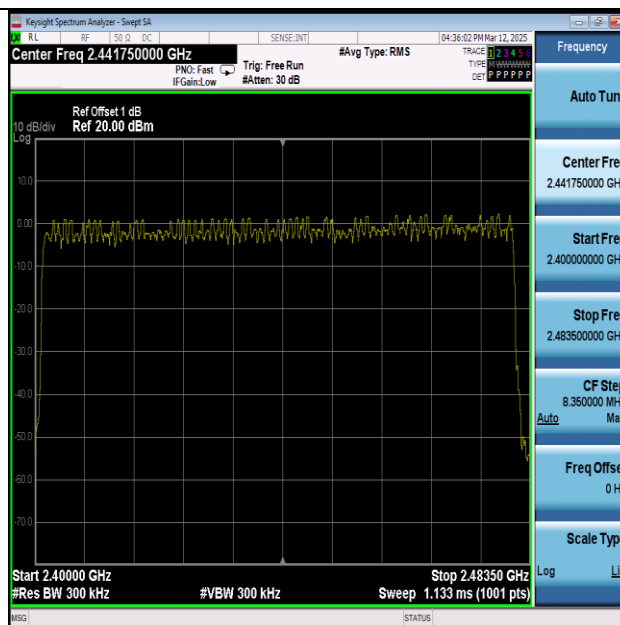
Number of hopping channels**Test Result**

Test Mode	Frequency [MHz]	Result[Num]	Limit[Num]	Verdict
DH5 (Left Ear)	Hop	79	≥15	PASS
2DH5 (Left Ear)	Hop	79	≥15	PASS
3DH5 (Left Ear)	Hop	79	≥15	PASS
DH5 (Right Ear)	Hop	79	≥15	PASS
2DH5 (Right Ear)	Hop	79	≥15	PASS
3DH5 (Right Ear)	Hop	79	≥15	PASS

Test Graphs

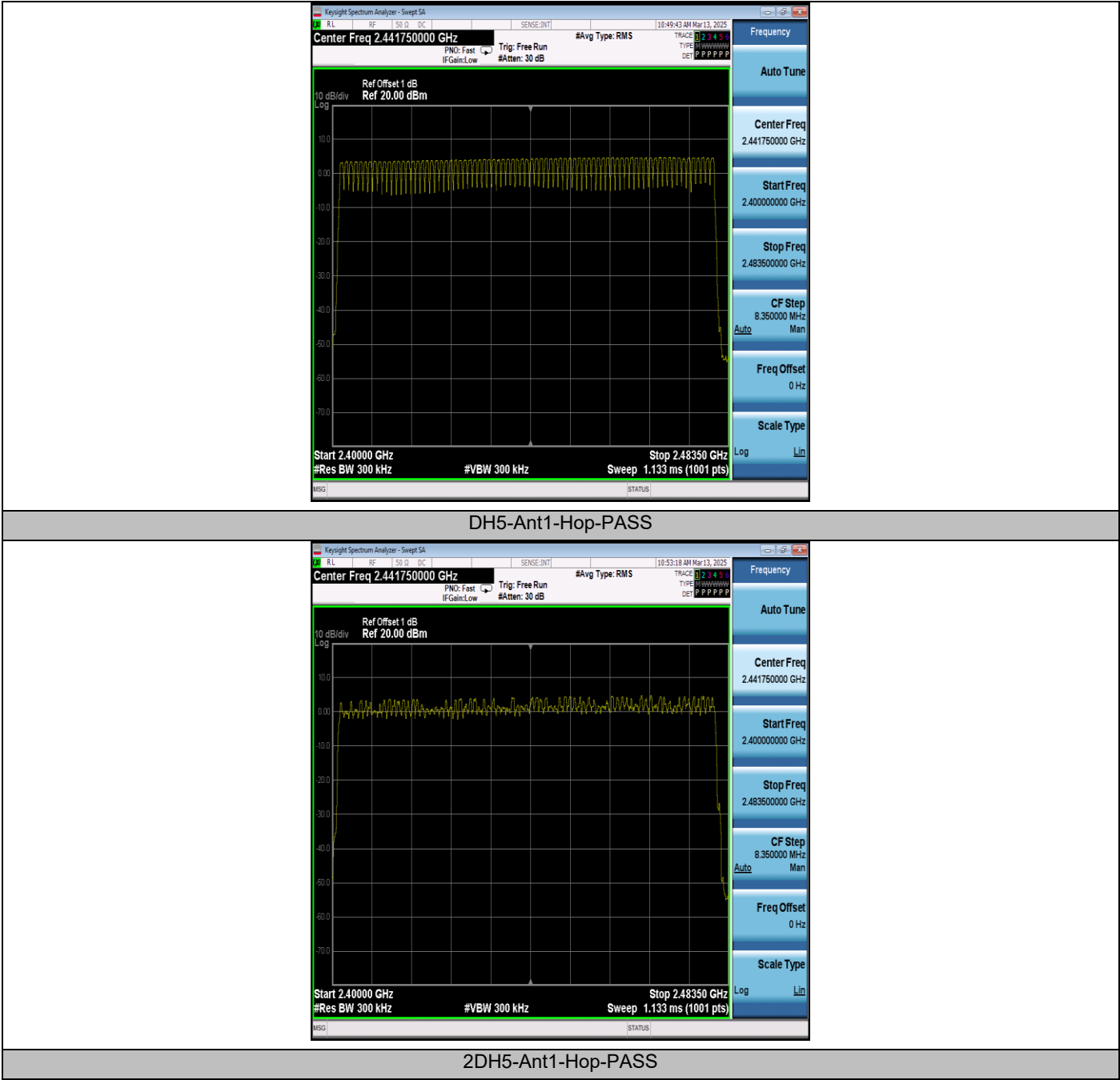
Left Ear

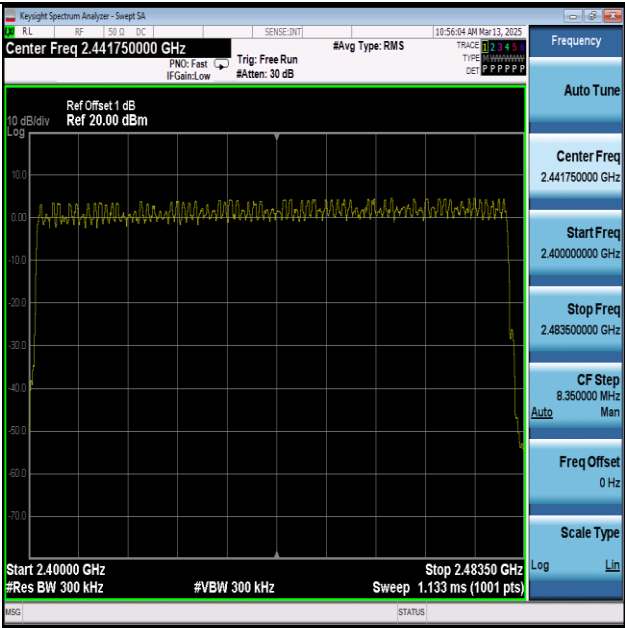




3DH5-Ant1-Hop-PASS

Right Ear



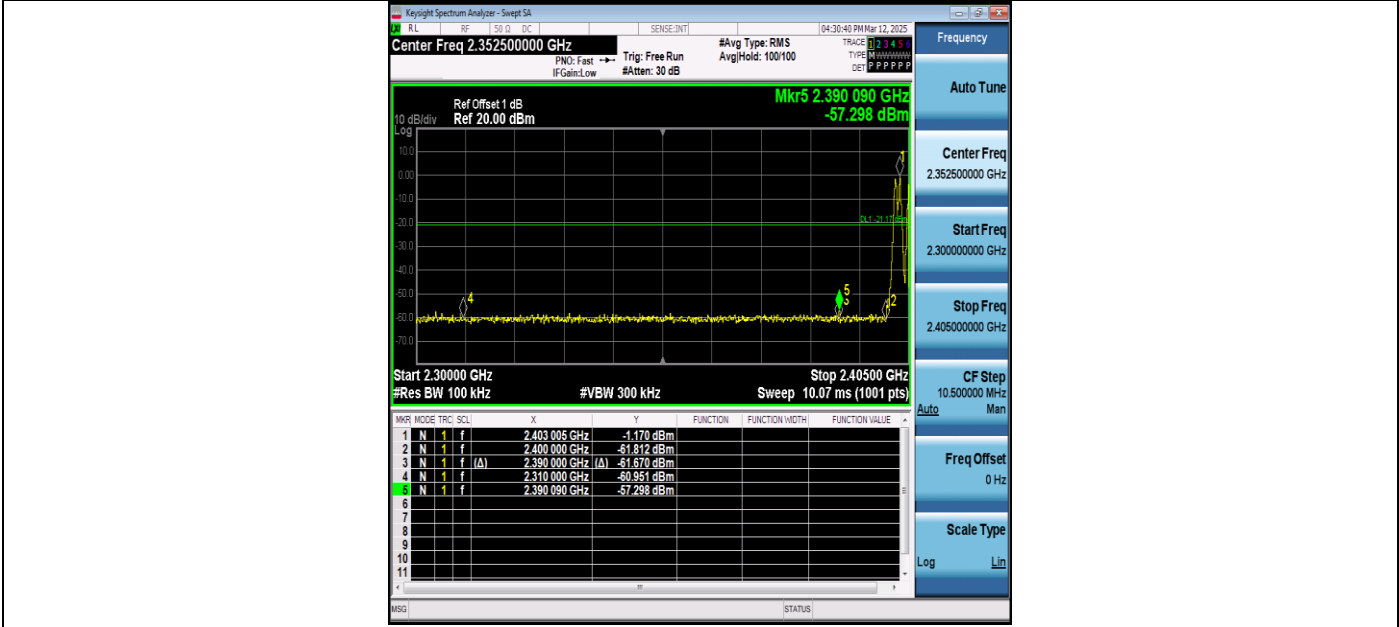


3DH5-Ant1-Hop-PASS

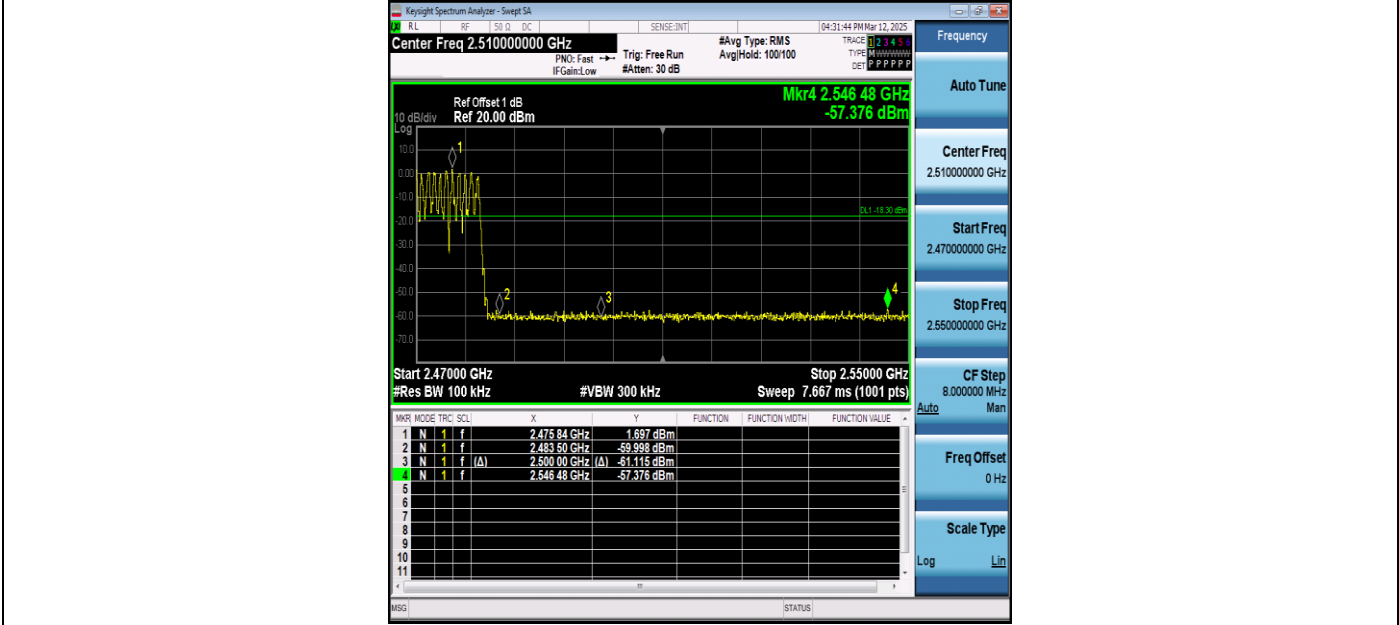
Conducted Band edge measurements
Test Graphs

Left Ear:

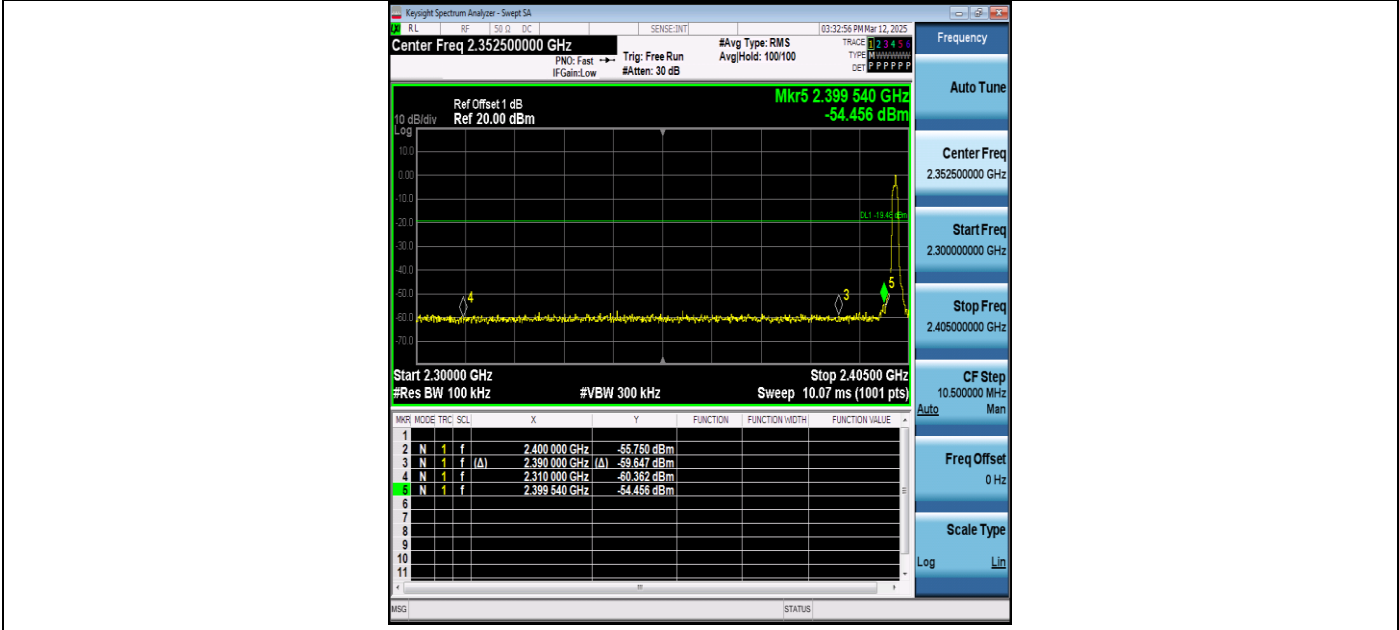




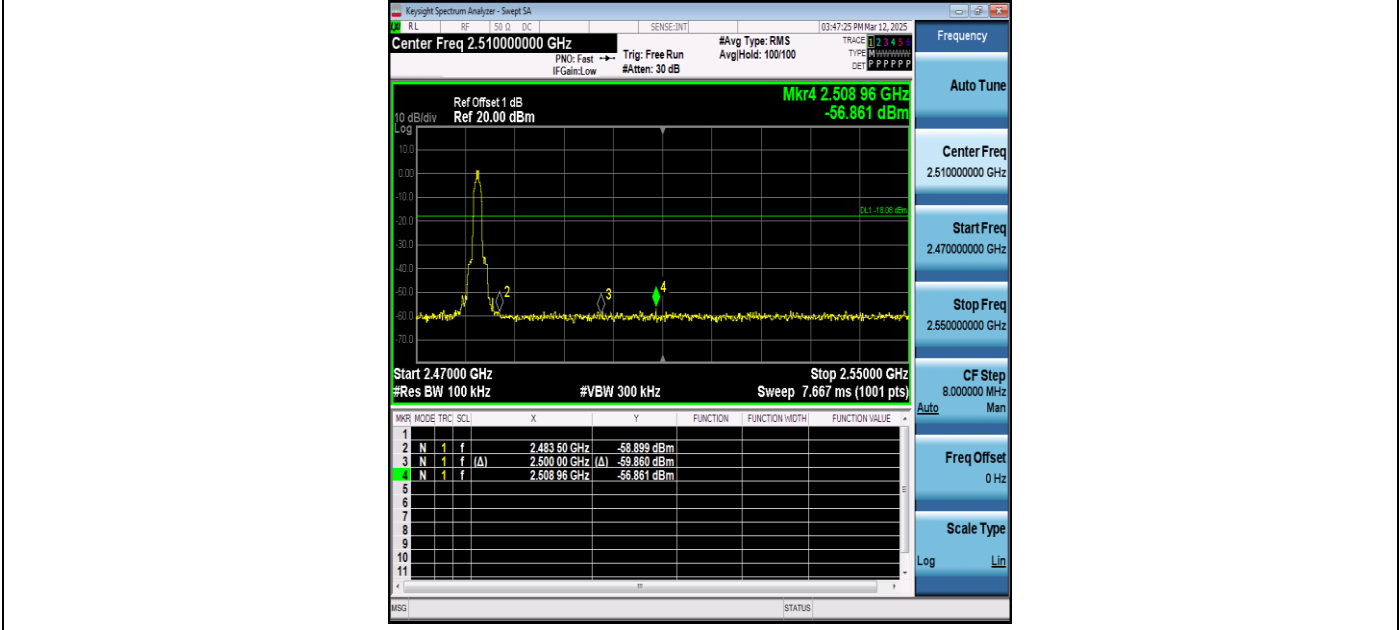
DH5-Ant1-Hop_2402-PASS



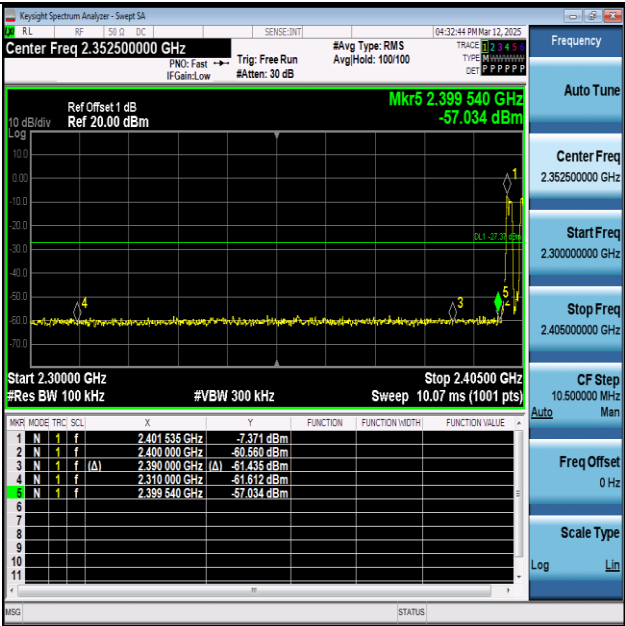
DH5-Ant1-Hop_2480-PASS



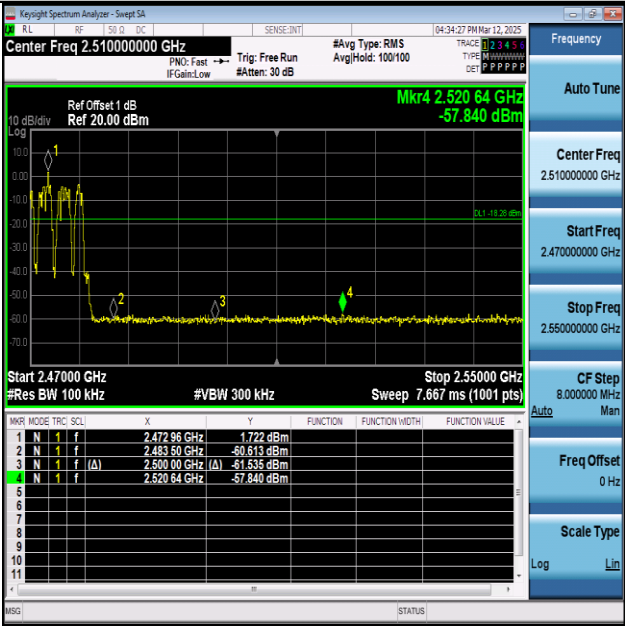
2DH5-Ant1-2402-PASS



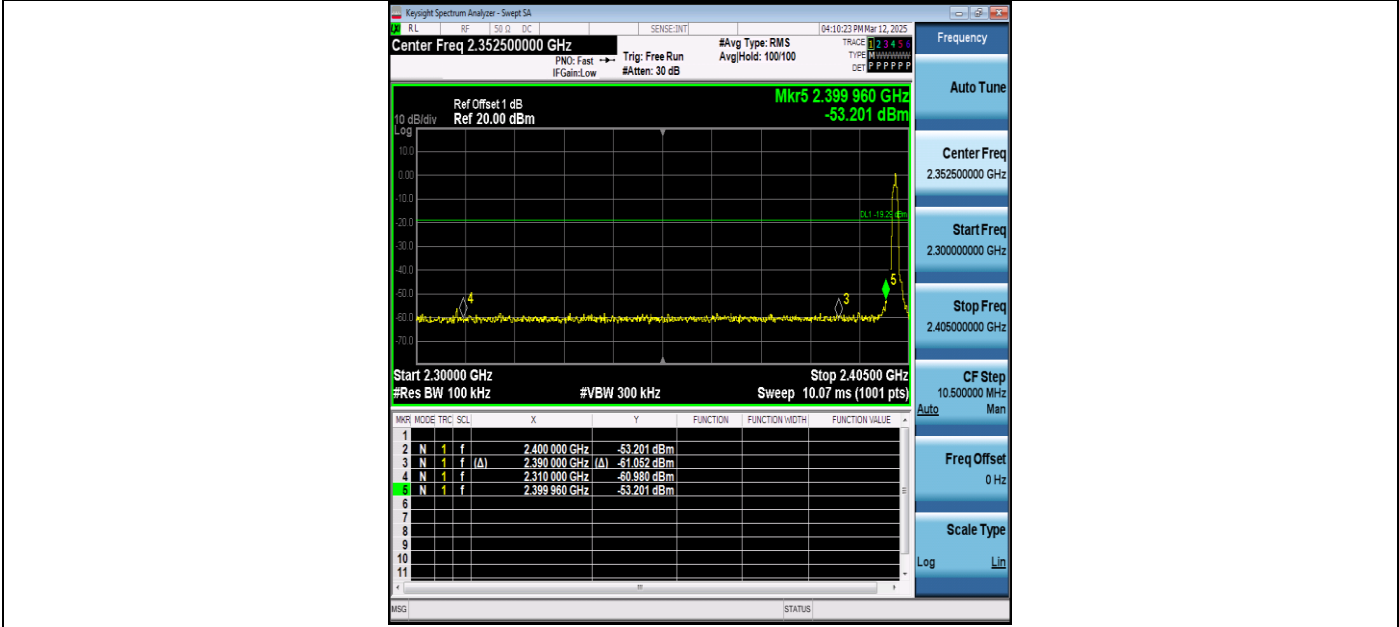
2DH5-Ant1-2480-PASS



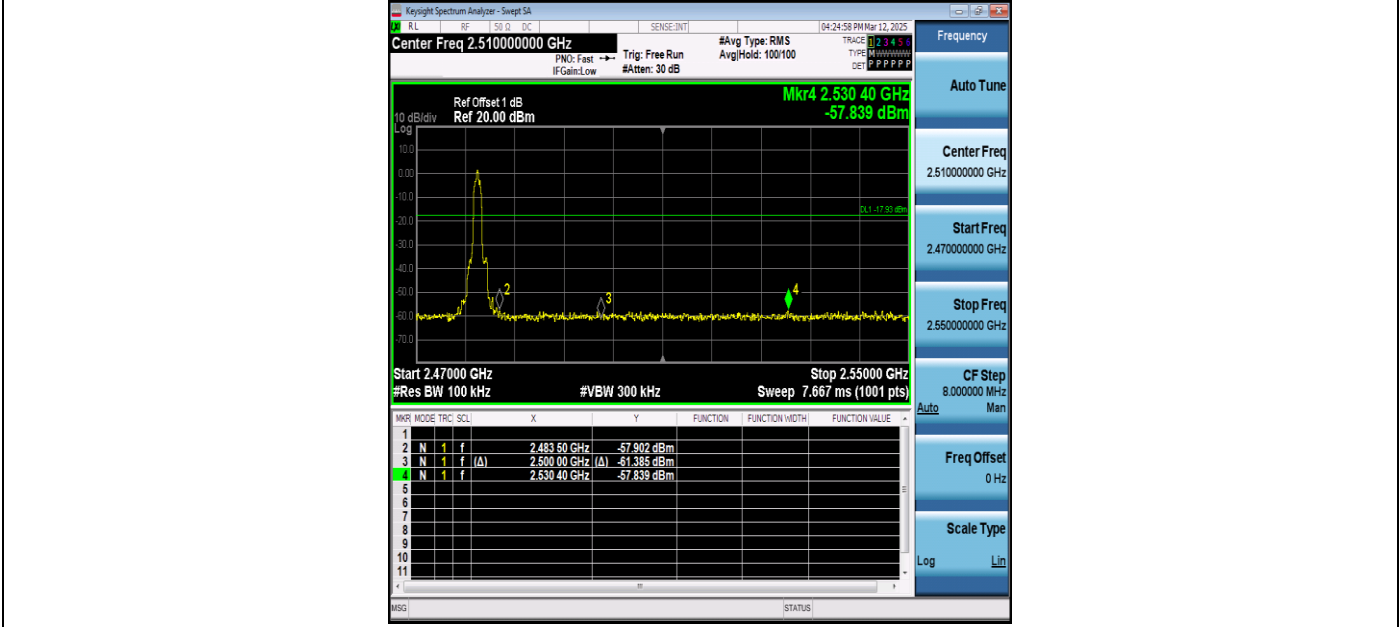
2DH5-Ant1-Hop_2402-PASS



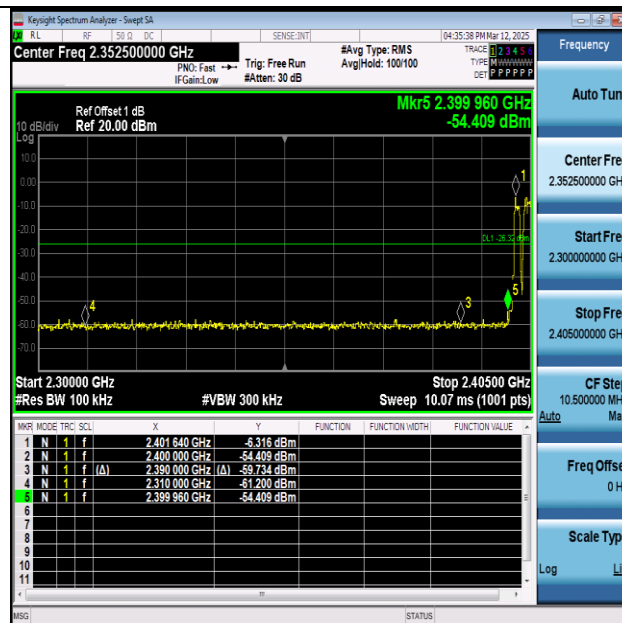
2DH5-Ant1-Hop_2480-PASS



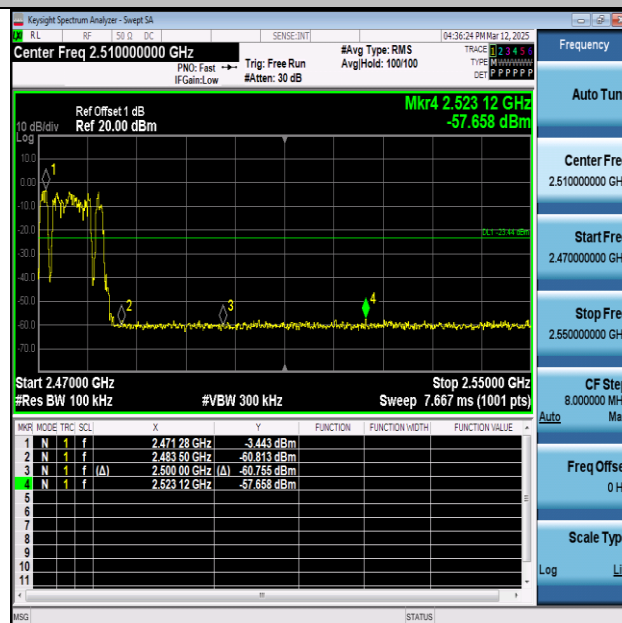
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



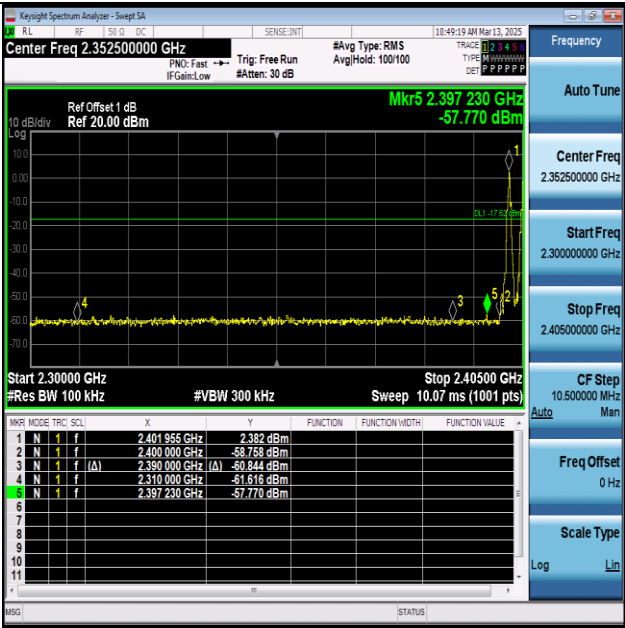
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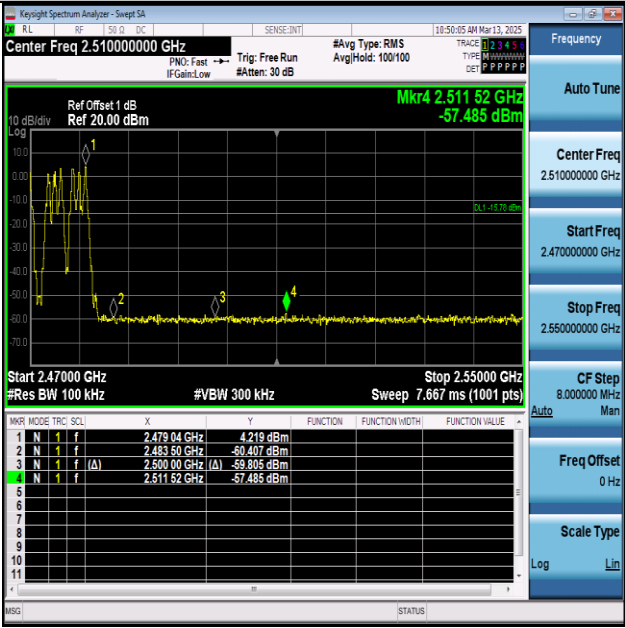
3DH5-Ant1-Hop_2480-PASS

Right Ear:





DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS