

FCC RF Test Report

(Bluetooth)

Applicant: ZDEER TECHNOLOGY(HENAN) CO.,LTD.

Address of Applicant: East of Wei Wu Road and south of Qin Gong East Road,
Toubao Village Committee, Laotown Town, Changge City,
Xuchang City, Henan Province, P.R. China

Product Name: Bone Conduction Hearing Aid

Model No.: G45160 (More models are listed in Section 2.2)

Brand Name: /

FCC ID: 2BRTX-G45160

Test Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: Feb. 03, 2026

Date of Test: Feb. 04 to Mar. 20, 2026

Date of Report Issue:

Mar. 23, 2026

Prepared By:

Shenzhen Acote Technology Co., Ltd.

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Report Revision History

Rev.	Issue Date	Description
V00	Mar. 23, 2026	Initial Release



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1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Main Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
Address of Satellite Laboratory:	101, F1, building 15, zhongda 365, Xincheng Road No.9, Songshanhu, Dongguan, Guangdong, China.
Website:	www.acotelabs.com
Email:	info@acotelabs.com
Tel.:	+86-0755-2788 9963

1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Applicant:	East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge City, Xuchang City, Henan Province, P.R. China
Manufacturer:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Manufacturer:	East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge City, Xuchang City, Henan Province, P.R. China
Factory:	ZDEER TECHNOLOGY(HENAN) CO.,LTD.
Address of Factory:	Building 1, EIC Park, East of Wei Wu Road and south of Qin Gong East Road, Toubao Village Committee, Laotown Town, Changge, Xuchang City, Henan Province, P.R. China

2.2 Product Information

Product Name:	Bone Conduction Hearing Aid
Model No.:	G45160
Models of Product Family:	G41157, G41158, G41159, G41160; G42151, G42152, G42153, G42154, G42155, G42156, G42157, G42158, G42159, G42160; G43151, G43152, G43153, G43154, G43155, G43156; G45151, G45152, G45153, G45154, G45155, G45156, G45157, G45158, G45159; G46151, G46152, G46153, G46154, G46155, G46156, G46157, G46158
Description of Model Differentiation:	The device is a bone conduction wireless headphone designed to transmit audio through bone conduction technology. It integrates wireless communication capability (BT5.2 technology) to connect with external devices such as mobile phones for audio streaming and control functions. There are 38 models in this product family. All models share identical RF design, including same RF chipset, identical RF circuit design, identical PCB layout, same antenna type and antenna location, therefore, all models have identical RF characteristics and compliance performance. The differences between the models are limited to cosmetic appearance and mechanical design, including different housing appearance, different button design or button location, enclosure material (metal or plastic) and different audio processing or performance configurations, these differences do not affect the RF circuitry, antenna design, operating frequency, or RF output power. The model numbers differ only by cosmetic or configuration variations and do not represent differences in RF design.

2.3 EUT Technical Parameters

Operation Frequency:	2402 MHz ~ 2480 MHz
Modulation Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	☒ GFSK ☒ $\pi/4$ -DQPSK ☒ 8DPSK
Data Speed:	☒ 1 Mbps ☒ 2 Mbps ☒ 3 Mbps
Channel Numbers:	79
Antenna Type:	Ceramic Antenna
Antenna Gain:	4.75 dBi (declared by applicant)
Power Supply:	Rechargeable Li-ion Battery 3.85Vdc, 230mAh
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- FCC CFR Title 47 Part 2
- FCC CFR Title 47 Part 15C (§15.247)
- ANSI C63.10:2020
- KDB 558074 D01 15.247 Meas Guidance v05r02

3.2 Test Result Summary

Report Section	Test Items	Standard Clause	Test Result
5.1	Antenna Requirement	§15.203 §15.247 (b)(4)	Pass
5.2	AC Power Line Conducted Emission	§15.207	N/A
5.3	20dB Emission Bandwidth and 99% Occupied Bandwidth	§15.247 (a)(1)	Pass ^{Note 1}
5.4	Conducted Output Power	§15.247 (b)(1)	Pass ^{Note 1}
5.5	Carrier Frequencies Separation	§15.247 (a)(1)	Pass ^{Note 1}
5.6	Hopping Channel Number	§15.247 (a)(1)(iii)	Pass ^{Note 1}
5.7	Dwell Time	§15.247 (a)(1)(iii)	Pass ^{Note 1}
5.8	Band-edge Emission	§15.247 (d)	Pass ^{Note 1}
5.9	Conduction Spurious Emission	§15.247 (d)	Pass ^{Note 1}
5.10	Emissions in Restricted Frequency Bands	§15.205 §15.247 (d)	Pass ^{Note 2}
5.11	Emissions in Non-restricted Frequency Bands	§15.209 §15.247(d)	Pass ^{Note 2}
Remark: a) Pass: The EUT complies with the essential requirements in the standard. b) N/A: Not applicable. c) The test cable insertion loss used by "RF Output Power" and other conduction measurement items is provided by the customer. Note 1: This test item was performed at the main laboratory. Note 2: This test item was performed at the satellite laboratory.			

3.3 Environment of test site

Temperature:	20 ~ 24°C
Humidity:	50 ~ 60% RH
Atmospheric Pressure:	1010 mbar

3.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radio Frequency	$\pm 2 \times 10^{-8}$
RF Power, Conducted	± 0.66 dB
Spurious emission, Conducted	± 2.28 dB
Bandwidth, Conducted	$\pm 4\%$
Temperature	± 0.3 °C
Voltage	± 0.1 %
Humidity	± 2 %
Conducted Emission (9kHz ~ 150kHz)	± 3.02 dB
Conducted Emission (30MHz ~ 1000MHz)	± 2.52 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	± 4.78 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	± 5.16 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	± 5.48 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	± 5.48 dB
Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.5 Description of Support Units

Description	Model	Manufacturer	Serial Number
Laptop	ThinkPad X1 Carbon 7th	Lenovo	PF-28E6G9 20/08

3.6 Additions to, Deviations, or Exclusions from the Method

None

3.7 Test Instruments List

Radiated Emission(3m SAC)				
Test Equipment	Manufacturer	Model	Serial No.	Cal Due
3m SAC	YiHeng	9m*6m*6m	20250422	2028/05/28
EMI Test Receiver	Rohde & Schwarz	ESR7	101542	2026/08/31
TRILOG Broad Band Antenna (30MHz – 1000MHz)	Schwarzbeck	VULB 9168	9168-771	2026/09/08
6dB Attenuator	SRTechnology Corporate	N-ATTENUATOR(6dB)	311248	2026/08/31
Preamplifier (30MHz – 1000MHz)	TESTEK	TK-PA06S	190014-L	2026/08/31
Broadband Horn Antenna (1GHz – 18GHz)	Gwave Technology	GHA0118A-11	20251014010	2026/11/16
Preamplifier (1GHz – 18GHz)	Gwave Technology	GWLAN008018-50	20251014010	2026/10/23
Broadband Horn Antenna (18GHz – 40GHz)	Gwave Technology	GHA180400-292F-20	20251014010	2026/11/16
Preamplifier (18GHz – 40GHz)	Gwave Technology	GWLAN018040-45	20251014010	2026/10/23
RF Cable (9kHz – 18GHz)	REBES	SF104/10000MM	805225/4	2026/08/31
RF Cable (9kHz – 18GHz)	REBES	SF104/10000MM	805226/4	2026/08/31
RF Cable (18GHz – 40GHz)	MWRFTTest	UCA400-2.92M2092M-1.5M	004	2026/10/23
RF Cable (18GHz – 40GHz)	Gwave Technology	GAU3-292M292M-3000A1	20251021001-01-01	2026/10/23
RF Cable (18GHz – 40GHz)	Gwave Technology	GAU3-292M292M-600A1	20251021001-01-01	2026/10/23
High-pass filter (1GHz – 18GHz)	K&L MICROWAVE	11SH10-2000/U1800-O/O	350	2026/10/23
High-pass filter (3GHz – 18GHz)	UIY	UIYHPF3025A4T18SF	DL0019131	2026/10/23
High-pass filter (7GHz – 18GHz)	Narda	F4036A	1572	2026/10/23
Spectrum Analyzer	Rohde & Schwarz	FSP40	102129	2026/07/04
Test Software	AUDIX	E3-6.100614a	N/A	N/A

RF Conducted Measurement				
Test Equipment	Manufacturer	Model	Serial No.	Cal Due
Spectrum Analyzer	Keysight	N9020A	MY56060179	2026/11/13
Vector Signal Generator	Agilent	N5182A	MY49060467	2026/11/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	123351	2026/11/13
Automatic control unit (including power sensor)	MWRFTTest	MW100-RFCB	MW250722AKT-59	2026/11/13
BT/WiFi automated testing software	MWRFTTest	MTS8310	Version: 2.0.0.0	N/A



4 Test Configuration of EUT

4.1 Channels Selected to Perform the Tests

Channels	Channel No.	Frequency (MHz)
Lowest	0	2402
Middle	39	2441
Highest	78	2480

4.2 Test Mode

TM 1:	Keep the EUT in continuously transmitting mode
TM 2:	Keep the EUT in hopping mode

4.3 Worst-case Configuration

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. The details are as follows:

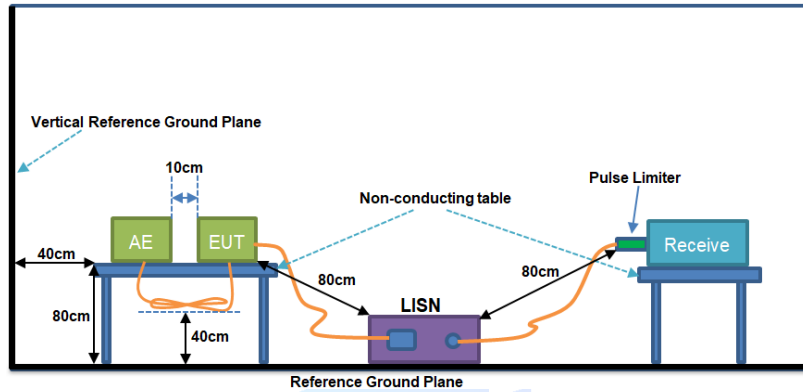
Report Section	Test Channel	Test Mode	Modulation Type
5.3	L, M, H	TM 1	1-DH5, 2-DH5, 3-DH5
5.4	L, M, H	TM 1	
5.5	Hopping	TM 2	
5.6	Hopping	TM 2	
5.7	Hopping	TM 2	1-DH1, 1-DH3, 1-DH5 2-DH1, 2-DH3, 2-DH5 3-DH1, 3-DH3, 3-DH5
5.8	L, H	TM 1	1-DH5, 2-DH5, 3-DH5
	Hopping	TM 2	
5.9	L, M, H	TM 1	
5.10	L, H	TM 1	
5.11	L, M, H	TM 1	

Note:

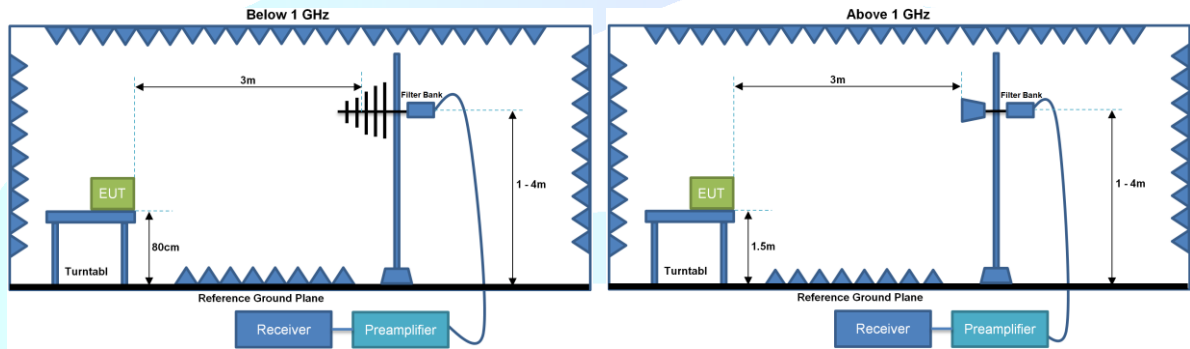
- 1) The EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that Y was the worst-case of radiated field strength.
- 2) For the 30MHz - 1000MHz range in Section 5.11, only the channel with the highest output power was tested.
- 3) For above 1 GHz in section 5.11, test frequency range up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

4.4 Test Setup Block

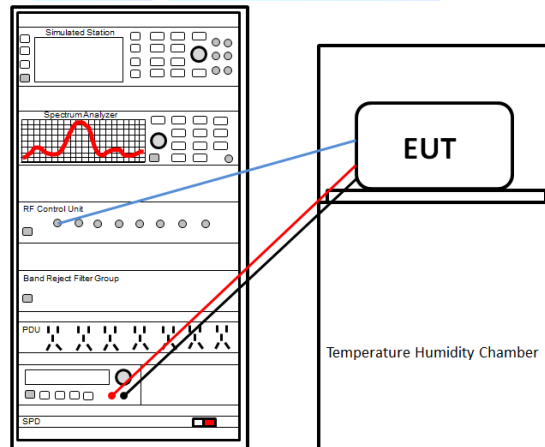
Setup 1 (Conducted Emission):



Setup 2 (Radiated Emission):



Setup 3 (MTS8310 Testing System):



5 Technical requirements specification

5.1 Antenna Requirement

5.1.1 Requirement

15.203 Requirement:

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, 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.

15.247(b) (4) Requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1.2 Results

Pass.

The Bluetooth antenna is an Ceramic Antenna which permanently attached, and the best case gain of the antenna is 4.75 dBi. See product internal photos for details.

5.2 AC Power Line Conducted Emission

5.2.1 Limits

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5 – 5	56	46
5 – 30	60	50
Note 1: The limit level in dB μ V decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.		

5.2.2 Test Procedure

- The EUT was placed on a non-conductive table, 40 cm from the vertical ground plane and 80 cm from the horizontal ground plane. The EUT was arranged in accordance with ANSI C63.10.
- The EUT was configured to operate in TM 1 mode as specified in Section 4.2. The test channels and modulation types of the EUT are described in Section 4.3.
- The phase of the LISN was set to L1.
- Open the EZ-EMC test software, load the FCC conducted emission test script, or create a new conducted emission test script, and configure the test parameters, including the test frequency range, RBW = 9kHz, VBW = 30kHz, test standard, LISN, receiver, and other related settings.
- The test script was executed, the measurement was performed. Save the test data.
- The phase of the LISN was set to N, and steps d) and e) were repeated.

5.2.3 Test Setup

See setup 1 in section 4.4.

5.2.4 Test Instruments

Refer to section 3.7.

5.2.5 Test Results

N/A.

The EUT is not designed to be directly connected to the public AC mains supply.

5.3 20dB Emission Bandwidth and 99% Occupied Bandwidth

5.3.1 Limits

N/A. Within authorization band.

5.3.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.3.3 Test Setup

See setup 3 in section 4.4.

5.3.4 Test Instruments

Refer to section 3.7.

5.3.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.4 Conducted Output Power

5.4.1 Limits

For 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.

5.4.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.4.3 Test Setup

See setup 3 in section 4.4.

5.4.4 Test Instruments

Refer to section 3.7.

5.4.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.5 Carrier Frequencies Separation

5.5.1 Limits

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.

5.5.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.5.3 Test Setup

See setup 3 in section 4.4.

5.5.4 Test Instruments

Refer to section 3.7.

5.5.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.6 Hopping Channel Number

5.6.1 Limits

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

5.6.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.6.3 Test Setup

See setup 3 in section 4.4.

5.6.4 Test Instruments

Refer to section 3.7.

5.6.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.7 Dwell Time

5.7.1 Limits

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.

5.7.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.7.3 Test Setup

See setup 3 in section 4.4.

5.7.4 Test Instruments

Refer to section 3.7.

5.7.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.8 Band-edge Emission

5.8.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.8.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 1 and TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.8.3 Test Setup

See setup 3 in section 4.4.

5.8.4 Test Instruments

Refer to section 3.7.

5.8.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.9 Conduction Spurious Emission

5.9.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.9.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the MTS8310 test software, load the FCC BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.9.3 Test Setup

See setup 3 in section 4.4.

5.9.4 Test Instruments

Refer to section 3.7.

5.9.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.10 Emissions in Restricted Frequency Bands

5.10.1 Limits

Frequency (MHz)	Limits (dB μ V/m) at 3m	Detector
30 - 88	40.0	Quasi-peak
88 - 216	43.5	Quasi-peak
216 - 960	46.0	Quasi-peak
960 - 1000	54.0	Quasi-peak
Note: The more stringent limits applies at transition frequencies.		
Frequency (MHz)	Limits (dB μ V/m) at 3m	
	Average	Peake
Above 1GHz	54.0	74.

5.10.2 Test Procedure

- The EUT is placed on a non-conducting table of the 3m SAC turntable, 80 cm above the ground plane for measurement below 1GHz, 1.5 m above the ground plane for measurement above 1GHz. The measurement receiving antenna to EUT distance is 3 meters. The EUT was arranged in accordance with ANSI C63.10.
- The EUT is operated in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the EZ-EMC test software, load the FCC radiated emissions test script, or create a new radiated emissions test script, and configure the test parameters, including the test frequency range, RBW = 100kHz (for below 1GHz) or 1MHz (for above 1GHz), VBW = 300kHz (for below 1GHz) or 3MHz (for above 1GHz), test standard, test antenna, spectrum analyzer, and other related settings.
- The test script was executed, the measurement was performed.
- The turntable rotates 360 degrees, and the test antenna is raised and lowered within a range of 1 to 4 meters.
- Use the spectrum analyzer's Max Hold function to record the maximum test trace. For frequencies below 1 GHz, mark the maximum Quasi-peak value. For frequencies above 1 GHz, mark the maximum Peak and Average values. Save the test data.
- Both vertical and horizontal polarizations of the test antenna need to be tested.

5.10.3 Test Setup

See setup 2 in section 4.4.

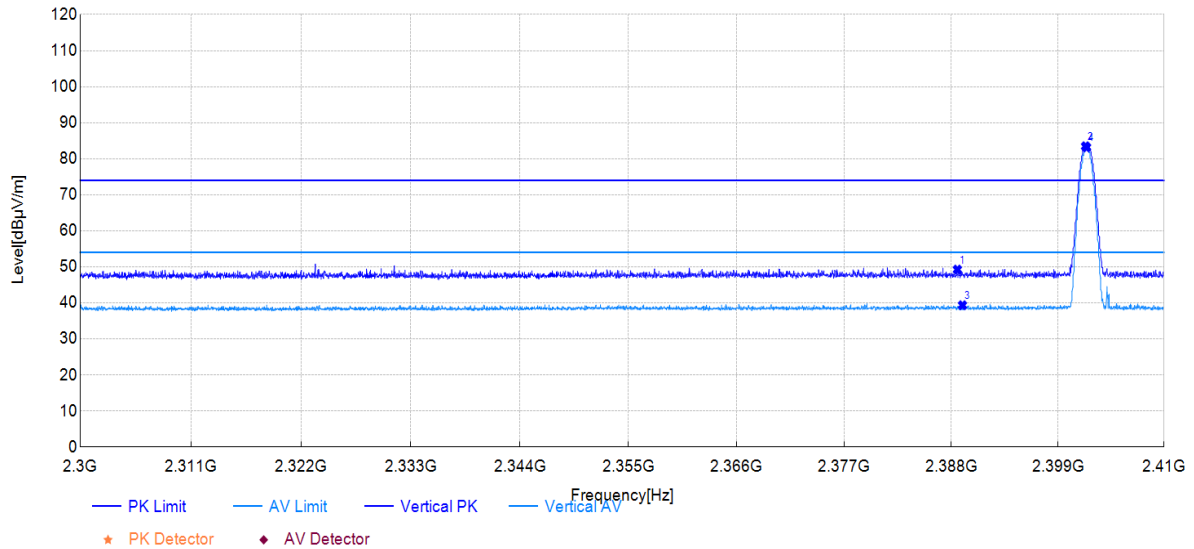
5.10.4 Test Instruments

Refer to section 3.7.

5.10.5 Test Results

Pass.

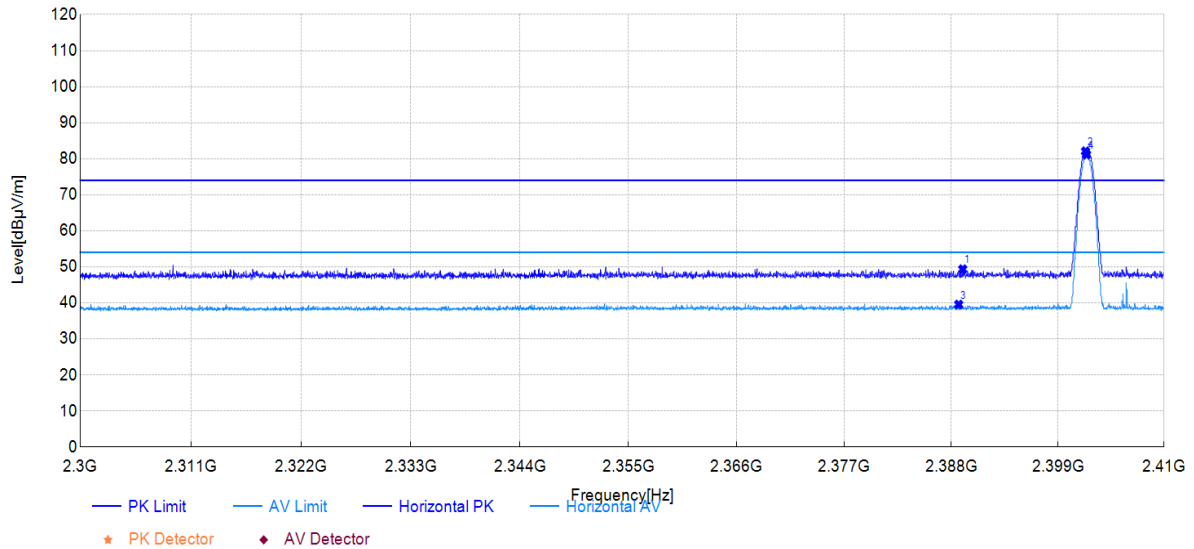
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (1-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.63	13.89	49.24	35.35	74.00	24.76	150	24	PK	Vertical	PASS
2	2401.86	48.13	83.46	35.33	/	/	150	65	PK	Vertical	PASS
3	2389.15	4.00	39.35	35.35	54.00	14.65	150	53	AV	Vertical	PASS
4	2401.97	47.83	83.16	35.33	/	/	150	65	AV	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

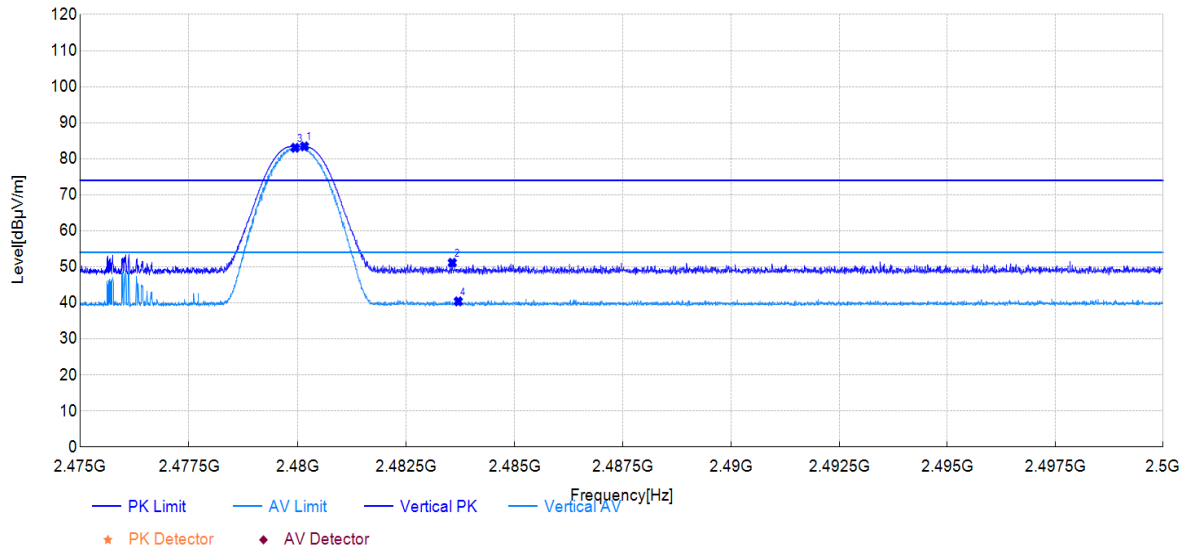
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (1-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.18	14.04	49.33	35.29	74.00	24.67	150	36	PK	Horizontal	PASS
2	2401.86	46.78	82.05	35.27	/	/	150	71	PK	Horizontal	PASS
3	2388.76	4.24	39.53	35.29	54.00	14.47	150	129	AV	Horizontal	PASS
4	2401.97	45.89	81.16	35.27	/	/	150	66	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

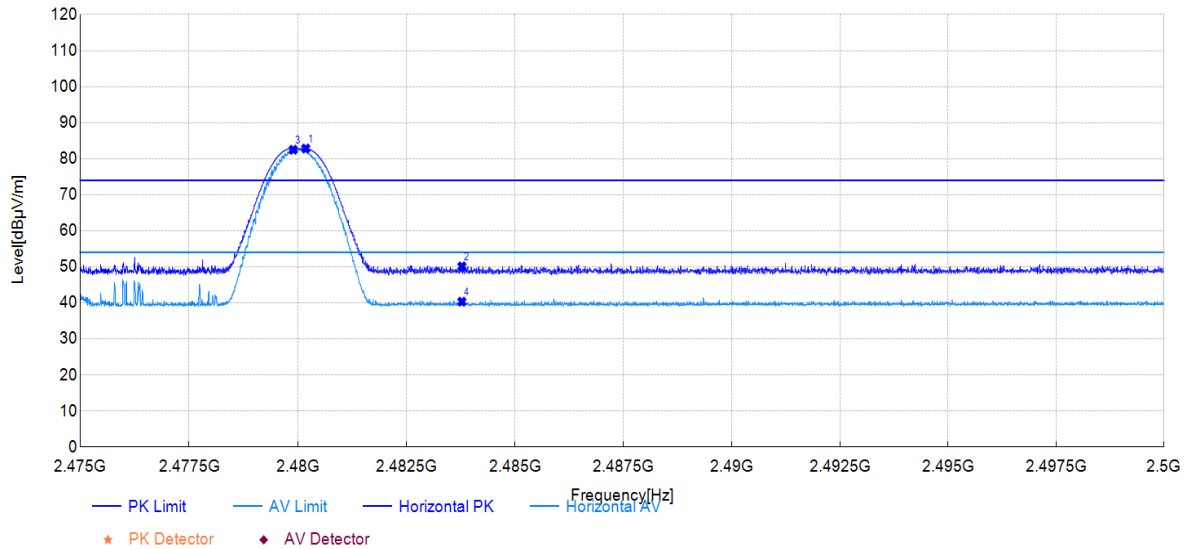
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (1-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.16	47.36	83.43	36.07	/	/	150	67	PK	Vertical	PASS
2	2483.56	15.02	51.13	36.11	74.00	22.87	150	0	PK	Vertical	PASS
3	2479.94	46.97	83.04	36.07	/	/	150	67	AV	Vertical	PASS
4	2483.70	4.31	40.42	36.11	54.00	13.58	150	0	AV	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

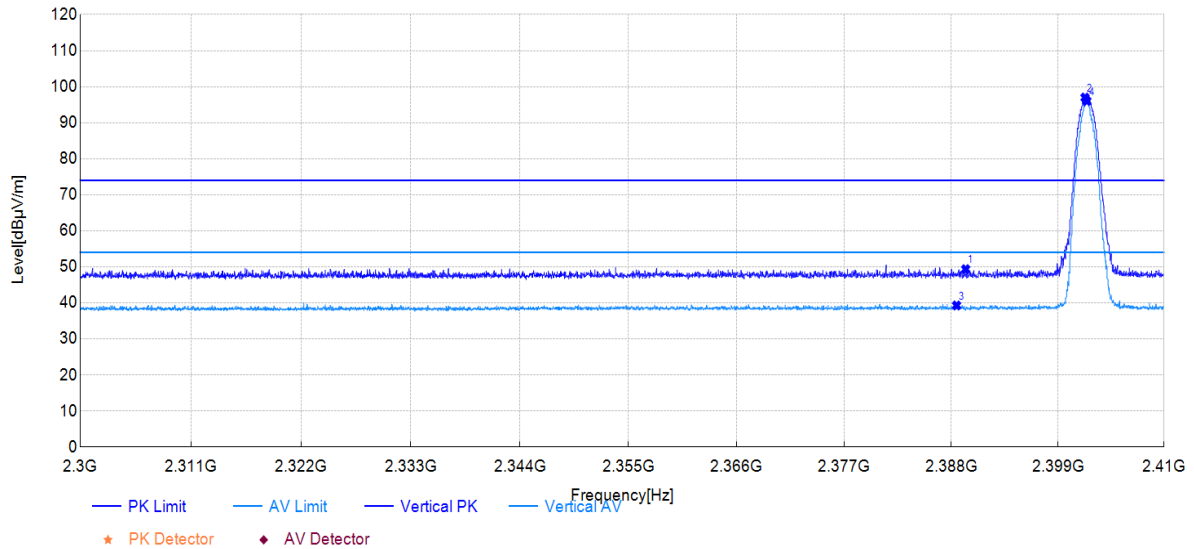
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (1-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2480.18	46.86	82.84	35.98	/	/	150	94	PK	Horizontal	PASS
2	2483.78	14.10	50.12	36.02	74.00	23.88	150	343	PK	Horizontal	PASS
3	2479.89	46.52	82.50	35.98	/	/	150	89	AV	Horizontal	PASS
4	2483.78	4.32	40.34	36.02	54.00	13.66	150	60	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

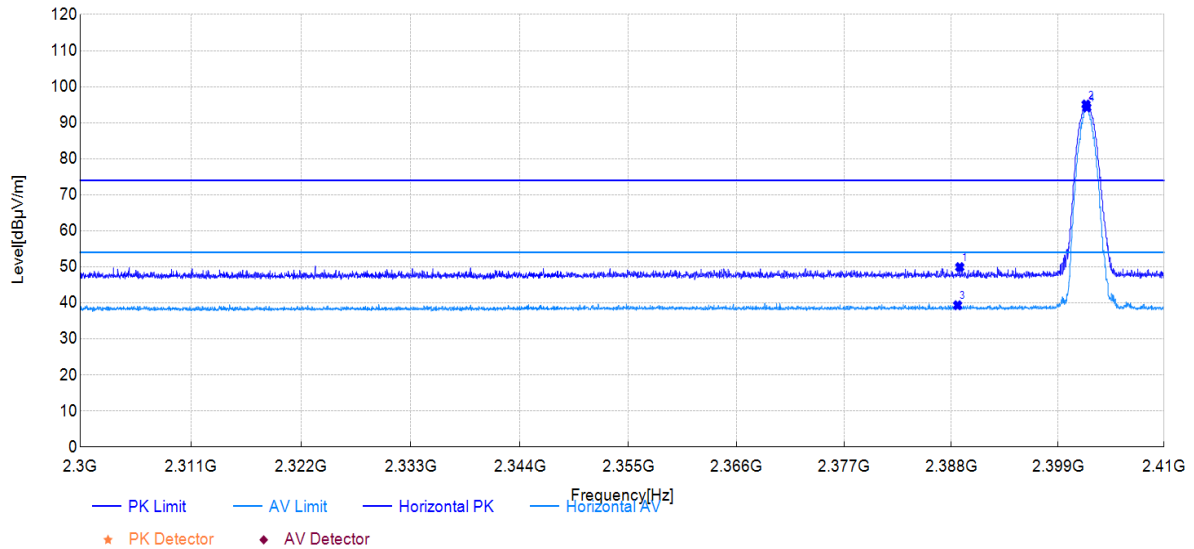
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (2-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2389.48	14.00	49.35	35.35	74.00	24.65	150	231	PK	Vertical	PASS
2	2401.80	61.65	96.98	35.33	/	/	150	63	PK	Vertical	PASS
3	2388.54	3.94	39.29	35.35	54.00	14.71	150	193	AV	Vertical	PASS
4	2402.00	60.68	96.02	35.34	/	/	150	63	AV	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

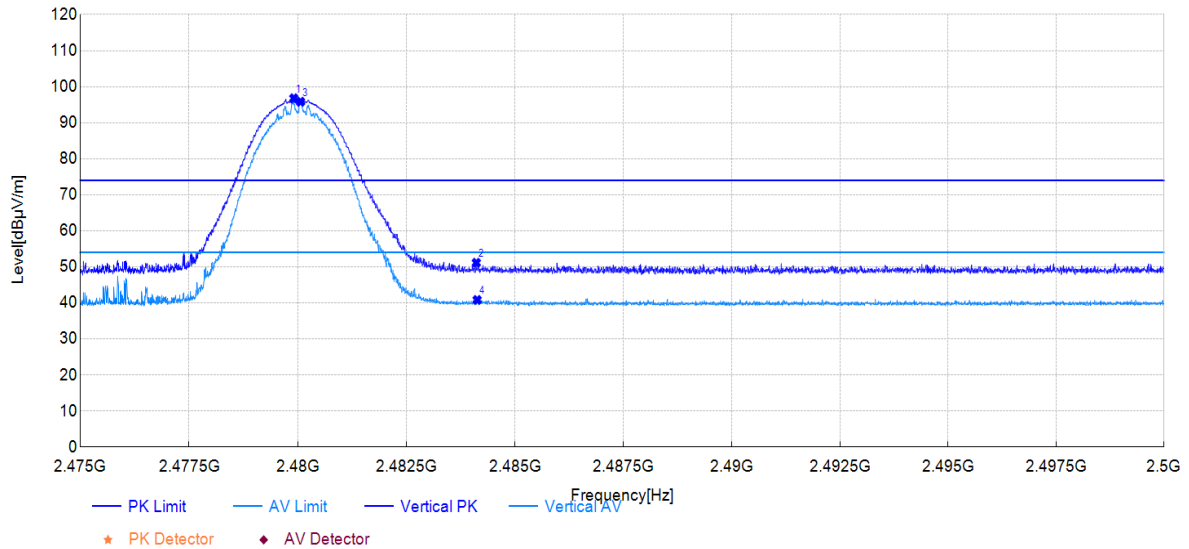
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (2-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.87	14.63	49.92	35.29	74.00	24.08	150	322	PK	Horizontal	PASS
2	2401.91	59.78	95.05	35.27	/	/	150	66	PK	Horizontal	PASS
3	2388.65	4.05	39.34	35.29	54.00	14.66	150	28	AV	Horizontal	PASS
4	2402.00	58.94	94.22	35.28	/	/	150	66	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

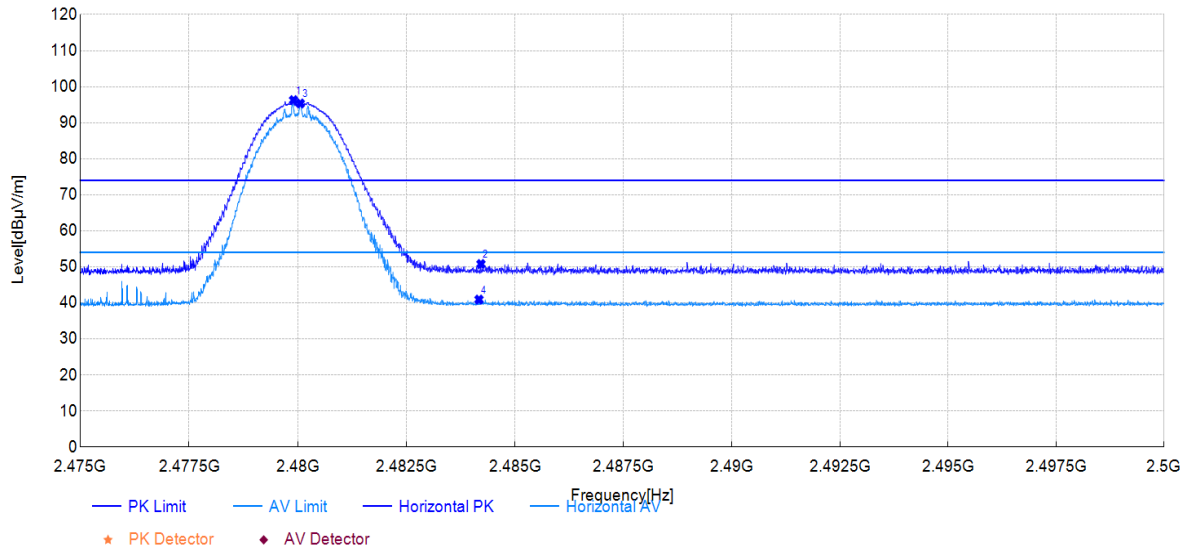
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (2-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.91	60.70	96.77	36.07	/	/	150	67	PK	Vertical	PASS
2	2484.11	15.02	51.13	36.11	74.00	22.87	150	75	PK	Vertical	PASS
3	2480.06	59.74	95.81	36.07	/	/	150	67	AV	Vertical	PASS
4	2484.13	4.70	40.81	36.11	54.00	13.19	150	136	AV	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

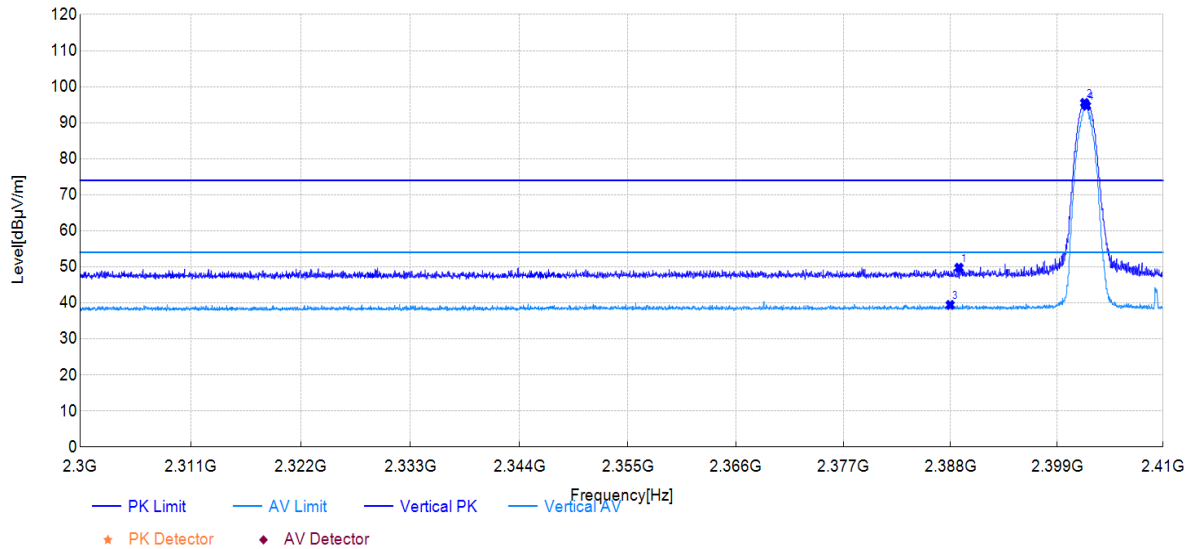
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (2-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.90	60.28	96.26	35.98	/	/	150	93	PK	Horizontal	PASS
2	2484.21	14.77	50.79	36.02	74.00	23.21	150	268	PK	Horizontal	PASS
3	2480.06	59.36	95.34	35.98	/	/	150	93	AV	Horizontal	PASS
4	2484.17	4.90	40.92	36.02	54.00	13.08	150	144	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

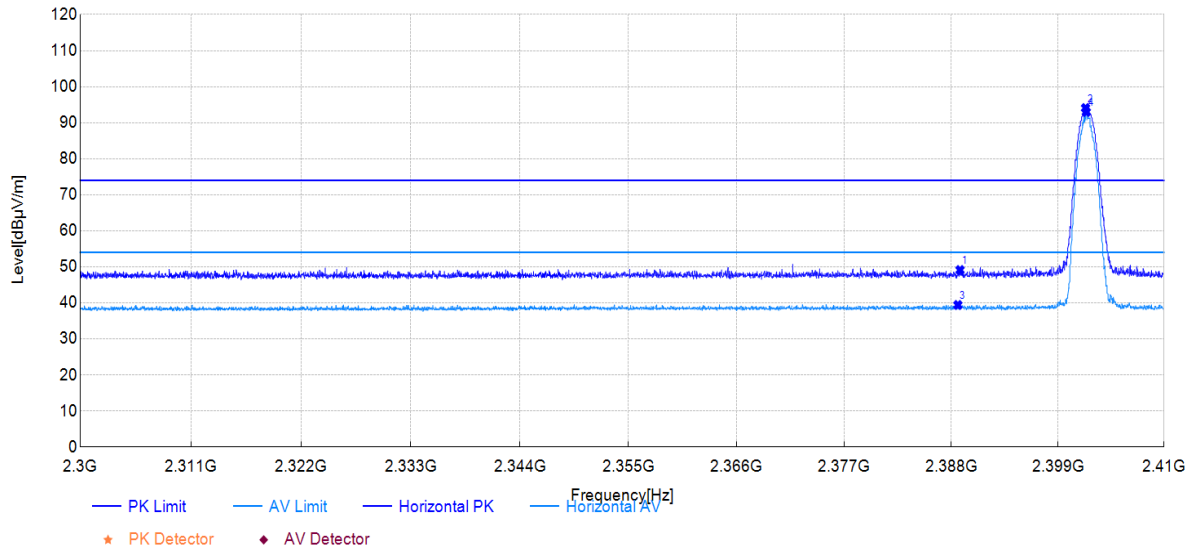
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (3-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.87	14.41	49.76	35.35	74.00	24.24	150	2388.8	PK	Vertica	PASS
2	2401.86	60.16	95.49	35.33	/	/	150	2401.8	PK	Vertica	PASS
3	2387.97	4.08	39.44	35.36	54.00	14.56	150	2387.9	AV	Vertica	PASS
4	2402.05	59.35	94.69	35.34	/	/	150	2402.0	AV	Vertica	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Lowest channel (3-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		

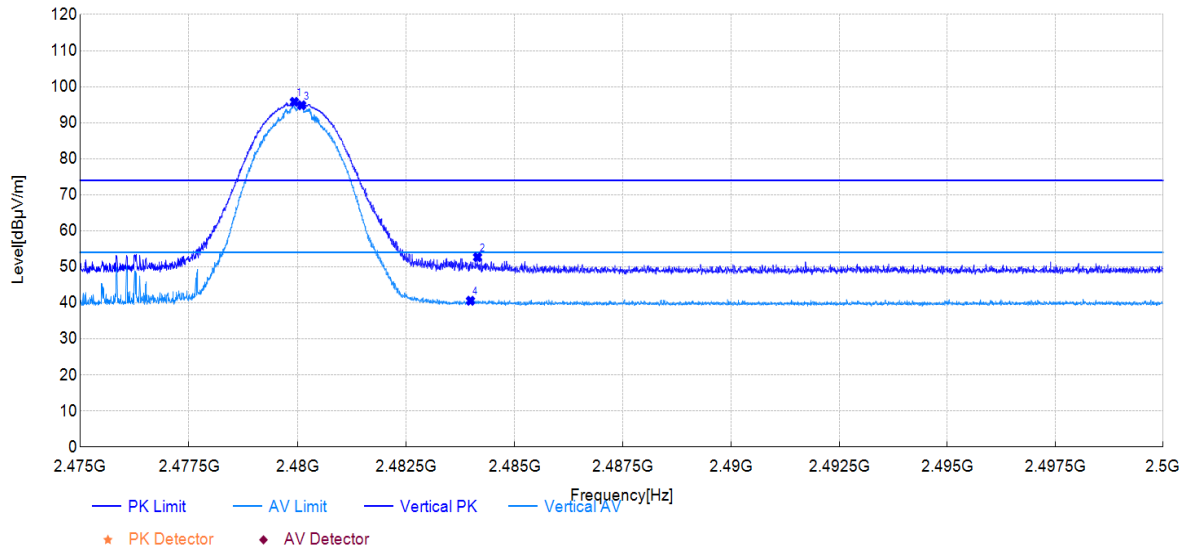


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2388.90	13.83	49.12	35.29	74.00	24.88	150	349	PK	Horizontal	PASS
2	2401.86	58.80	94.07	35.27	/	/	150	68	PK	Horizontal	PASS
3	2388.68	4.13	39.42	35.29	54.00	14.58	150	55	AV	Horizontal	PASS
4	2401.94	57.70	92.97	35.27	/	/	150	68	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

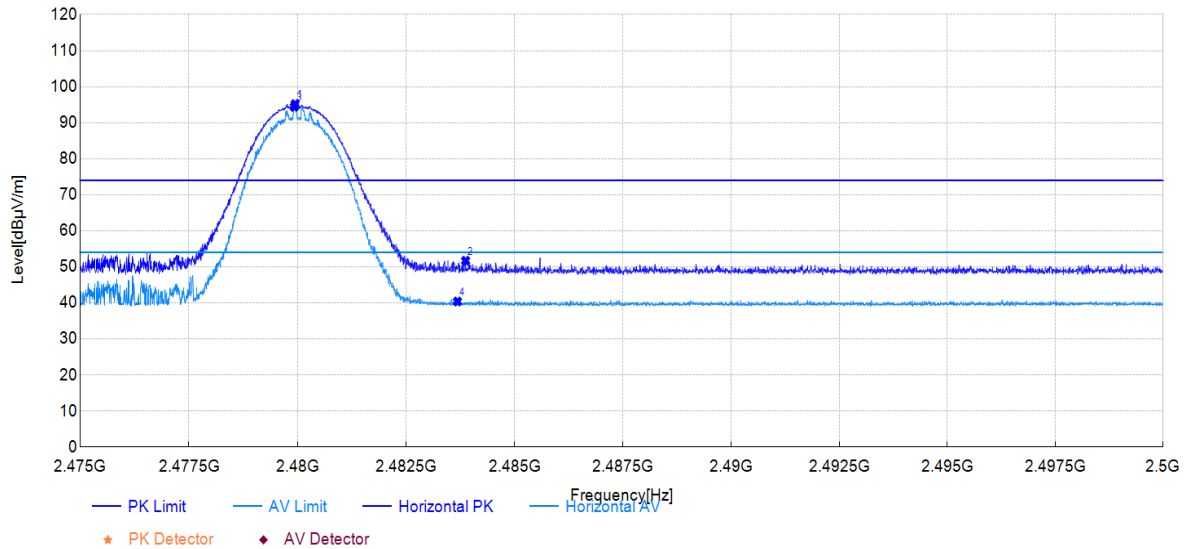
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (3-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.93	59.71	95.78	36.07	/	/	150	67	PK	Vertical	PASS
2	2484.15	16.57	52.68	36.11	74.00	21.32	150	67	PK	Vertical	PASS
3	2480.10	58.77	94.84	36.07	/	/	150	67	AV	Vertical	PASS
4	2483.98	4.48	40.59	36.11	54.00	13.41	150	75	AV	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Channel:	Highest channel (3-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	2479.94	59.16	95.14	35.98	/	/	150	93	PK	Horizontal	PASS
2	2483.87	15.68	51.70	36.02	74.00	22.30	150	88	PK	Horizontal	PASS
3	2479.93	58.41	94.39	35.98	/	/	150	93	AV	Horizontal	PASS
4	2483.68	4.36	40.38	36.02	54.00	13.62	150	285	AV	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

5.11 Emissions in Non-restricted Frequency Bands

5.11.1 Limits

Frequency (MHz)	Limits (dB μ V/m) at 3m	Detector
30 - 88	40.0	Quasi-peak
88 - 216	43.5	Quasi-peak
216 - 960	46.0	Quasi-peak
960 - 1000	54.0	Quasi-peak
Note: The more stringent limits applies at transition frequencies.		
Frequency (MHz)	Limits (dB μ V/m) at 3m	
	Average	Peake
Above 1GHz	54.0	74.

5.11.2 Test Procedure

- The EUT is placed on a non-conducting table of the 3m SAC turntable, 80 cm above the ground plane for measurement below 1GHz, 1.5 m above the ground plane for measurement above 1GHz. The measurement receiving antenna to EUT distance is 3 meters. The EUT was arranged in accordance with ANSI C63.10.
- The EUT is operated in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the EZ-EMC test software, load the FCC radiated emissions test script, or create a new radiated emissions test script, and configure the test parameters, including the test frequency range, RBW = 100kHz (for below 1GHz) or 1MHz (for above 1GHz), VBW = 300kHz (for below 1GHz) or 3MHz (for above 1GHz), test standard, test antenna, spectrum analyzer, and other related settings.
- The test script was executed, the measurement was performed.
- The turntable rotates 360 degrees, and the test antenna is raised and lowered within a range of 1 to 4 meters.
- Use the spectrum analyzer's Max Hold function to record the maximum test trace. For frequencies below 1 GHz, mark the maximum Quasi-peak value. For frequencies above 1 GHz, mark the maximum Peak and Average values. Save the test data.
- Both vertical and horizontal polarizations of the test antenna need to be tested.

5.11.3 Test Setup

See setup 2 in section 4.4.

5.11.4 Test Instruments

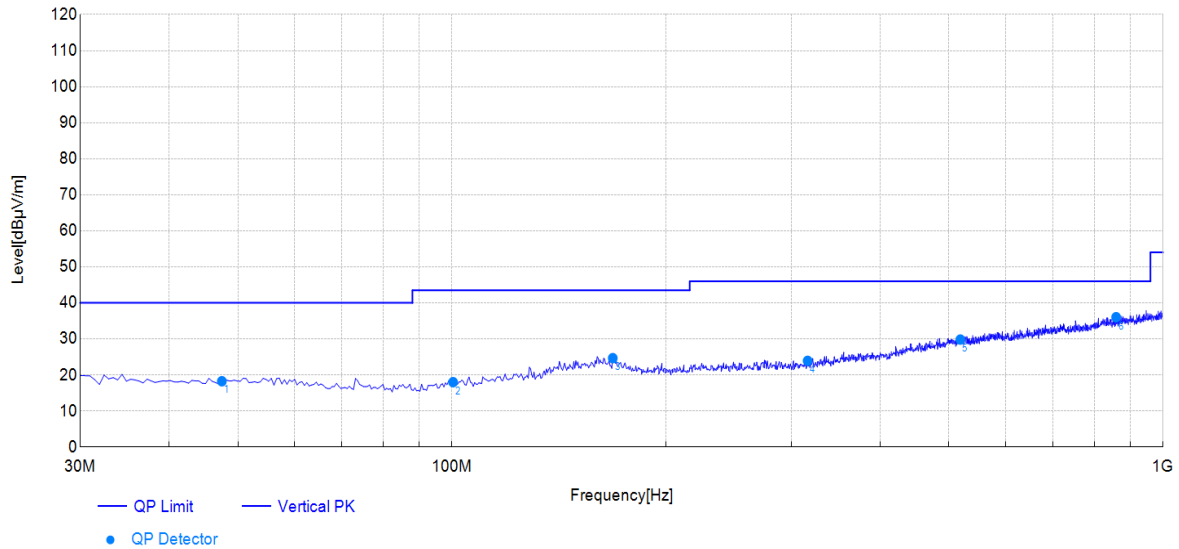
Refer to section 3.7.

5.11.5 Test Results

Pass.

1) Test Frequency Range: Below 1GHz

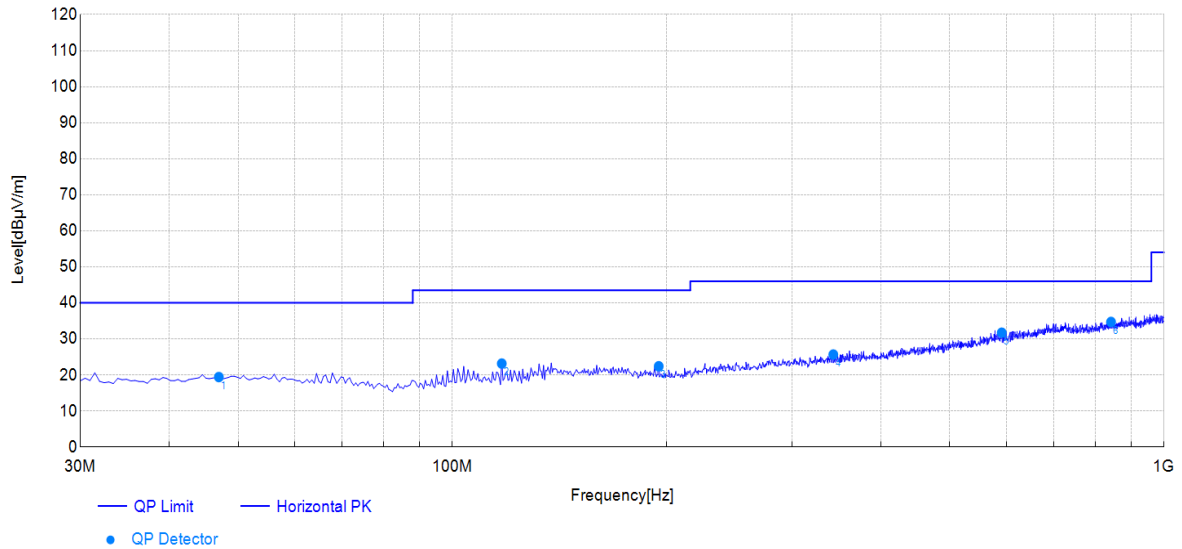
Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Frequency:	30MHz ~ 1GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V		



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	47.47	13.26	5.01	18.27	40.00	21.73	150	179	Vertical	PASS
2	100.36	12.35	5.66	18.01	43.50	25.49	150	35	Vertical	PASS
3	168.29	17.63	7.04	24.67	43.50	18.83	150	337	Vertical	PASS
4	316.29	17.01	6.92	23.93	46.00	22.07	150	32	Vertical	PASS
5	518.64	22.40	7.43	29.83	46.00	16.17	150	320	Vertical	PASS
6	858.79	27.42	8.61	36.03	46.00	9.97	150	207	Vertical	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Bone Conduction Hearing Aid	Model No.:	G45160
Test By:	Albers	Test mode:	TM 1
Test Frequency:	30MHz ~ 1GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	46.98	14.01	5.42	19.43	40.00	20.57	150	267	Horizontal	PASS
2	117.34	13.01	10.16	23.17	43.50	20.33	150	195	Horizontal	PASS
3	194.98	14.50	7.92	22.42	43.50	21.08	150	167	Horizontal	PASS
4	342.98	18.12	7.56	25.68	46.00	20.32	150	249	Horizontal	PASS
5	591.43	23.19	8.55	31.74	46.00	14.26	150	99	Horizontal	PASS
6	842.30	26.46	8.26	34.72	46.00	11.28	150	51	Horizontal	PASS

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

2) Test Frequency Range: Above 1GHz

Modulation Type: 1-DH5 Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	56.12	-8.25	47.87	74.00	26.13	Peak	Vertical
	35.81	-8.25	27.56	54.00	26.44	Average	
	56.35	-8.25	48.10	74.00	25.90	Peak	Horizontal
	36.41	-8.25	28.16	54.00	25.84	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	57.25	-8.06	49.19	74.00	24.81	Peak	Vertical
	36.25	-8.06	28.19	54.00	25.81	Average	
	56.12	-8.06	48.06	74.00	25.94	Peak	Horizontal
	36.41	-8.06	28.35	54.00	25.65	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	56.21	-8.29	47.92	74.00	26.08	Peak	Vertical
	35.24	-8.29	26.95	54.00	27.05	Average	
	56.33	-8.29	48.04	74.00	25.96	Peak	Horizontal
	37.20	-8.29	28.91	54.00	25.09	Average	

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Modulation Type: 2-DH5							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	56.98	-8.25	48.73	74.00	25.27	Peak	Vertical
	35.24	-8.25	26.99	54.00	27.01	Average	
	56.44	-8.25	48.19	74.00	25.81	Peak	Horizontal
	36.41	-8.25	28.16	54.00	25.84	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	56.87	-8.06	48.81	74.00	25.19	Peak	Vertical
	36.21	-8.06	28.15	54.00	25.85	Average	
	56.41	-8.06	48.35	74.00	25.65	Peak	Horizontal
	36.17	-8.06	28.11	54.00	25.89	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	56.87	-8.29	48.58	74.00	25.42	Peak	Vertical
	36.45	-8.29	28.16	54.00	25.84	Average	
	56.98	-8.29	48.69	74.00	25.31	Peak	Horizontal
	36.01	-8.29	27.72	54.00	26.28	Average	

Modulation Type: 3-DH5							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	56.77	-8.25	48.52	74.00	25.48	Peak	Vertical
	35.41	-8.25	27.16	54.00	26.84	Average	
	56.99	-8.25	48.74	74.00	25.26	Peak	Horizontal
	36.41	-8.25	28.16	54.00	25.84	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	56.87	-8.06	48.81	74.00	25.19	Peak	Vertical
	35.98	-8.06	27.92	54.00	26.08	Average	
	56.92	-8.06	48.86	74.00	25.14	Peak	Horizontal
	36.28	-8.06	28.22	54.00	25.78	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	57.01	-8.29	48.72	74.00	25.28	Peak	Vertical
	36.11	-8.29	27.82	54.00	26.18	Average	
	56.91	-8.29	48.62	74.00	25.38	Peak	Horizontal
	36.74	-8.29	28.45	54.00	25.55	Average	

----- End of report -----