

HAC Volume Control Test Report

Report No. : HFBCUN-WTW-P25020520-2

Applicant : Askey Computer Corporation

Address : 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY, TAIWAN

Product : Mobile Computer

FCC ID : H8NPCTE020

Brand : Askey

Model No. : RC40

FCC Rule Part : CFR §20.19

Standards : ANSI C63.19-2019, ANSI/TIA-5050-2018, KDB 285076 D01 v06r04, KDB 285076 D03 v01r06, KDB 285076 D05 v01

Sample Received Date : Mar. 11, 2025

Date of Testing : May 20, 2025 ~ Jun. 26, 2025

Lab Address : No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location : No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City, Taiwan

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's HAC characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

Prepared By :



Gina Liu / Specialist

Approved By :



Gordon Lin / Manager

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Release Control Record

Report No.	Reason for Change	Date Issued
HFBCUN-WTW-P25020520-2	Initial release	Jul. 04, 2025

HAC Volume Control Test Report

1. Summary of Test Results

Applicant Name	Askey Computer Corporation
FCC ID	H8NPCTE020
Model Name	RC40
Applicable Standards	FCC 47 CFR § 20.19 ANSI C63.19-2019 ANSI/TIA-5050 2018
Conversational gain with hearing aids	2N : 11.50dB
Conversational gain without hearing aids	8N : 18.01dB

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2. Description of Equipment Under Test

EUT Type	Mobile Computer
FCC ID	H8NPCTE020
Brand Name	Askey
Model Name	RC40
Tx Frequency Bands (Unit: MHz)	WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850 ~ 1900 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 4 : 1710 ~ 1755 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 5 : 824 ~ 849 (BW: 1.4M, 3M, 5M, 10M) LTE Band 12 : 699 ~ 716 (BW: 1.4M, 3M, 5M, 10M) LTE Band 13 : 777 ~ 787 (BW: 5M, 10M) LTE Band 14 : 788 ~ 798 (BW: 5M, 10M) LTE Band 17 : 704 ~ 716 (BW: 5M, 10M) LTE Band 25 : 1850 ~ 1915 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 26 : 814 ~ 849 (BW: 1.4M, 3M, 5M, 10M, 15M) LTE Band 30 : 2305 ~ 2315 (BW: 5M, 10M) LTE Band 38 : 2570 ~ 2620 (BW: 5M, 10M, 15M, 20M) LTE Band 41 : 2496 ~ 2690 (BW: 5M, 10M, 15M, 20M) LTE Band 42 : 3450 ~ 3600 (BW: 5M, 10M, 15M, 20M) LTE Band 43 : 3600 ~ 3700 (BW: 5M, 10M, 15M, 20M) LTE Band 48 : 3550 ~ 3700 (BW: 5M, 10M, 15M, 20M) LTE Band 53 : 2483.5 ~ 2495 (BW: 1.4M, 3M, 5M, 10M) LTE Band 66 : 1710 ~ 1780 (BW: 1.4M, 3M, 5M, 10M, 15M, 20M) LTE Band 70 : 1695 ~ 1710 (BW: 5M, 10M, 15M) LTE Band 71 : 663 ~ 698 (BW: 5M, 10M, 15M, 20M) 5G NR-n2 : 1850 ~ 1910 (BW: 5M, 10M, 15M, 20M) 5G NR-n5 : 824 ~ 849 (BW: 5M, 10M, 15M, 20M) 5G NR-n7 : 2500 ~ 2570 (BW: 5M, 10M, 15M, 20M) 5G NR-n12 : 699 ~ 716 (BW: 5M, 10M, 15M) 5G NR-n13 : 777 ~ 787 (BW: 5M, 10M) 5G NR-n14 : 788 ~ 798 (BW: 5M, 10M) 5G NR-n25 : 1850 ~ 1915 (BW: 5M, 10M, 15M, 20M) 5G NR-n26 : 814 ~ 849 (BW: 5M, 10M, 15M, 20M) 5G NR-n30 : 2305 ~ 2315 (BW: 10M) 5G NR-n38 : 2570 ~ 2620 (BW: 15M, 20M, 30M, 40M) 5G NR-n41 : 2496 ~ 2690 (BW: 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M) 5G NR-n48 : 3550 ~ 3700 (BW: 20M, 40M) 5G NR-n53 : 2483.5 ~ 2495 (BW: 10M) 5G NR-n66 : 1710 ~ 1780 (BW: 5M, 10M, 15M, 20M) 5G NR-n70 : 1695 ~ 1710 (BW: 15M) 5G NR-n71 : 663 ~ 698 (BW: 5M, 10M, 15M, 20M) 5G NR-n77 : 3450 ~ 3550, 3700 ~ 3980 (BW: 20M, 30M, 40M, 60M, 80M, 100M) 5G NR-n78 : 3450 ~ 3550, 3700 ~ 3800 (BW: 20M, 30M, 40M, 60M, 80M, 100M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825, 5955 ~ 6415, 6435 ~ 6515, 6535 ~ 6855, 6875 ~ 7115 Bluetooth : 2402 ~ 2480 NFC : 13.56

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Uplink Modulations	WCDMA : QPSK LTE : QPSK, 16QAM, 64QAM, 256QAM 5G NR: Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM 802.11ax : OFDMA Bluetooth : GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type	PIFA Antenna
EUT Stage	Engineering Sample

Note:

- The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

Report Issue History Record:

Battery	Brand Name	Askey
	Model Name	RC40-BR-SBL500
	Nominal Voltage	3.85V
	Nominal Capacity	5000mAh 19.25Wh
	Rated Capacity	4900mAh 18.865Wh
	Limited Charging Voltage	4.4V

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Air Interface	Bands	Transport Type	ANSI C63.19 Tested	Simultaneous But Not Tested	Name of Voice Service	Power Reduction				
WCDMA	II	VO	YES	WLAN, BT	CMRS Voice	No				
	IV					No				
	V					No				
	HSPA	VD	YES		Google Meet ⁽¹⁾	No				
FDD-LTE	2	VD	YES		WLAN, BT	VoLTE Google Meet ⁽¹⁾	No			
	4						No			
	5						No			
	12						No			
	13						No			
	14						No			
	17						No			
	25						No			
	26						No			
	30						No			
	66						No			
	70						No			
	71						No			
	TDD-LTE						38	VD	YES	WLAN, BT
41		No								
42		No								
43		No								
48		No								
53		DT	No			N/A	No			
FDD-5G FR1	2	DT	No			WLAN, BT	N/A	No		
	5							No		
	7							No		
	12							No		
	13							No		
	14							No		
	25							No		
	26							No		
	30							No		
	48							No		
	66							No		
	70							No		
TDD-5G FR1	38	DT	No				WLAN, BT	N/A	No	
	41								No	
	48								No	
	53								No	
	77								No	
	78								No	
WLAN	2.4G	DT	No					WWAN, BT	N/A	
	5.2G	DT	No	N/A					No	
	5.3G								No	
	5.6G								No	
	5.8G								No	
	6G (UNII 5 ~ 8)	DT	No	WWAN, BT	N/A			No		
Bluetooth	2.4G	DT	No	WWAN, WLAN	N/A			No		
Transport Type VO = Legacy Cellular Voice Service DT = Digital Transport Only (No Voice) VD = IP Voice Service over Digital Transport CMRS: Commercial Mobile Radio Service BT: Bluetooth			Note 1. Not required to comply with Volume Control standard. (Waiver DA 23-914)							

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3. HAC Volume Control Measurement

3.1 General Procedures ANSI/TIA-5050 for All Technologies

The general test arrangement is shown in Figure 1. The call box passes the voice channel stream to the DUT without modification. There is no gain or loss in the voice channel stream due to the call box interface. The following requirements shall be met for at least one volume control setting for the narrowband transmission mode and the wideband transmission mode.

Quiet room is a room with background noise no greater than 40 dBA.

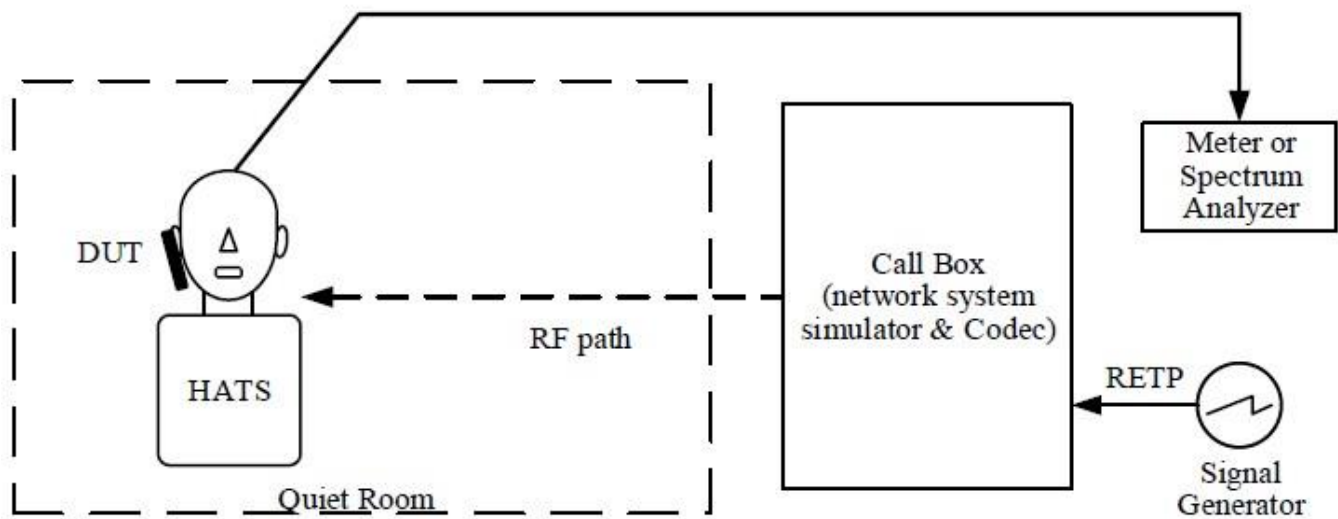


Figure 1 Test Arrangement

3.2 Receive Volume Control Performance

3.2.1 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test.
2. Set the DUT volume control to the maximum setting.
3. If the DUT has an adjustable tone control feature, a tone control setting that meets the frequency response requirements in section 5.3.1 shall be used.
4. Apply the real speech test signal at a level of -20 dBm0 at the RETP and measure the acoustic output at the Drum Reference Point (DRP) over one complete sequence of the test signal.
5. Translate the measurement made at the DRP to the Free Field (FF) using the translation data in Annex B.
6. Over the applicable frequency band, determine the ASL in dBSPL for the resulting sound pressure level in accordance with Method B of ITU-T Recommendation P.56 :
 - a. Narrowband 100 Hz through 4000 Hz.
 - b. Wideband 100 Hz through 7720 Hz.
7. Calculate the Conversational Gain by subtracting 70 dB from the measured dBSPL. [Conversational Gain = (Measured dBSPL Level – 70 dBSPL) dB]
8. Measure the output distortion per clause 5.2. If a distortion failure occurs at the maximum volume control setting, reduce the volume control setting and repeat the measurement to determine if a setting can be found for which the conversational gain requirement is met without a distortion failure.
9. Repeat steps 2-8 with a mounting force of 2N.

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3.3 Receive Distortion and Noise Performance

Receive distortion is specified in terms of Signal-to-Distortion-and-Noise Ratio (SDNR) using a Pulsed Noise (PN) test signal. PN-SDNR is the ratio of the signal power to the total A-weighted distortion and noise power of the signal output expressed in dB. It is measured using a pulsed 1/3 octave pink noise input signal as described in TIA-5050 2018 Annex A.

3.3.1 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1.
2. Receive distortion and noise is measured using the PN-SDNR procedure as described in Annex A.
3. To ensure DUT activation, apply the real speech test signal at a level of -20 dBm0 followed immediately by the initial 1/3 octave center frequency PN test signal in Table A.1 based on the narrowband or wideband operating mode. Measure the acoustic output at the DRP over the complete sequence of the PN test signal.
4. Translate the measurement made at the DRP to the FF using the translation data in Annex B.
5. Calculate the acoustic output unweighted total signal power of the stimulus measurement band as described in A.2.
6. Calculate the notched A-weighting distortion and noise components as described in A.3.
7. Calculate the ratio of the signal power to the total A-weighted distortion and noise power using Eq A-1.
8. Repeat for each of the remaining 1/3 octave center frequencies in Table A.1 based on the narrowband or wideband operating mode.

Repeat steps 2-8 with a mounting force of 2N.

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3.4 Receive Acoustic Frequency Response Performance

For the volume control settings determined in 5.1.1 with a mounting force of 8N and 2N, the receive frequency response shall be measured at the DRP in 1/12 octave bands. After translation to the FF or DF, it shall fall between the applicable upper and lower limits.

The exact limit values at any 1/12 octave band center frequency falling between two consecutive points specified in the table may be calculated using the formula given in equation below:

$$X_f = X_1 + (X_2 - X_1) * \left(\frac{\log_{10} f - \log_{10} f_1}{\log_{10} f_2 - \log_{10} f_1} \right)$$

3.4.1 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1.
2. If the DUT has an adjustable tone control feature the initial measurement is to be performed with the default tone control setting.
3. Apply the real speech test signal with a level of -20 dBm0 at the RETP.
4. Capture the frequency spectrum at the DRP of the HATS using real-time analysis with 1/12 octave bands over the frequency range from 100 Hz to 4000 Hz for narrowband measurements, or over the frequency range from 100 Hz to 8000 Hz for wideband measurements, averaged over the entire duration of the test signal.
5. Transform the DRP frequency spectrum measurement to the FF or DF (see Annex B).
6. Divide the 1/12 octave measurement data by the 1/12 octave frequency spectrum of the test signal at the RETP and present the measurement in terms of dB(Pa/V).
7. Apply the applicable frequency response limits to determine compliance.
8. If the default tone control setting does not meet the requirement, repeat the above steps for other tone control settings to determine a tone control setting that meets the requirements.
9. Repeat with a mounting force of 2N.

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4. Receive Volume Control Requirements

4.1 Receive Volume Control

1. With a mounting force of 8N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 18 dB with the output distortion and the frequency response meeting the requirements in clause 5.2.1 & 5.3.1 respectively.
2. With a mounting force of 2N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 6 dB with the output distortion and the frequency response meeting the requirements in clause 5.2.1 & 5.3.1 respectively.

4.2 Receive Distortion and Noise

With a mounting force of 8N and 2N, the ratio of the stimulus signal power to the 100 Hz to 8000 Hz total A- weighted distortion and noise power shall be ≥ 20 dB when tested over the range of 1/3 octave band center frequencies.

4.3 Receive Acoustic Frequency Response

The results for each 1/12 octave band measurement are to be evaluated against the upper and lower limit values only at the center frequency point for that band (i.e., not the entire width of the band). For graphical purposes, the individual 1/12 octave band measurement results are plotted as points on a linear dB scale (y-axis) versus the band's center frequency on a logarithmic frequency scale (x-axis). The frequency response limits are floating or "best fit" (i.e., the maximum and minimum deviations from the upper and lower limits should be equidistant from those limits).

1. Narrowband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table 1 and shown in Figure 2.

Table 1 – Narrowband Receive Frequency Response Limits

Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
300	-6	100	+6
3400	-6	4000	+6

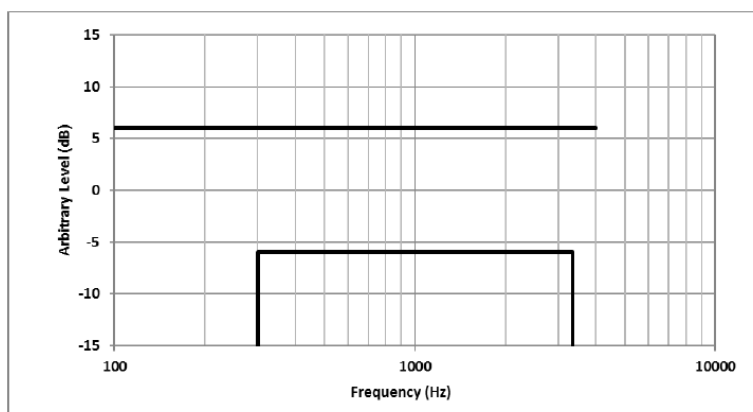


Figure 2 – Narrowband Receive Frequency Response Limits

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2. Wideband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table 2 and shown in Figure 3.

Table 2 – Wideband Receive Frequency Response Limits

Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
200	-10	100	+6
300	-6	1000	+6
5000	-6	2000	+8
6300	-12	8000	+8

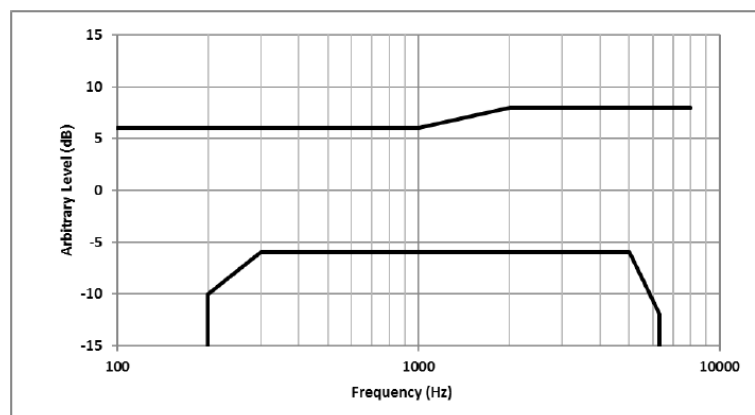


Figure 3 – Wideband Receive Frequency Response Limits

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4.4 HAC Compliance under Waiver DA 23-914

The technical testing guidance addresses the technical testing requirements for the conversational gain, distortion, and frequency response tests that amends KDB 285076 D04 Volume Control under the conditions of the limited-term waiver DA 23-914.

- a. Under the waiver, only CMRS narrowband and CMRS wideband voice codecs are required to comply with the volume control requirements of the TIA 5050-2018 Volume Control Standard as amended as follows:
 1. For the 2N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which it operates using one codec bit rate of the applicant's choosing.
 2. For the 8N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate but is not required to meet or exceed the full 18 dB of conversational gain specified in section 5.1.1 of the TIA 5050 Volume Control Standard using one codec bit rate of the applicant's choosing.
- b. For all other narrowband and wideband codecs not evaluated in **a.** above, TIA 5050-2018 Receive Distortion and Noise Performance and Receive Acoustic Frequency Response Performance evaluations are not required; however, these codecs shall be assessed for conversational gain and documented in the test report at the 2N and 8N levels with a gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate. The handset volume setting used to comply with **a.** shall be used for these other CMRS codec evaluations.
- c. Any other codec for voice services embedded in the handset, not identified in **a.** and **b.** above, is not required to comply or demonstrate in the test reports for conversational gain.

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5. HAC Volume Control Test Results

CMRS NB/WB Codecs and bitrate; AMR-NB 4.75 kbit/s and AMR-NB 7.4 kbit/s ; AMR-WB 6.60 kbit/s and AMR-WB 15.85 kbit/s ; EVS-NB 5.9 kbit/s and EVS-NB 24.4 kbit/s ; EVS-WB 5.9 kbit/s and EVS-WB 24.4 kbit/s ; EVS-SWB 9.6 kbit/s and EVS-SWB128 kbit/s as defined in the ANSI TIA-5050. All Volume Control measurements were performed with volume max-2 level.

Device Support Codec					
WCDMA Codec/bitrate investigation					
Codec	AMR NB	AMR WB			
Bitrate	4.75kbps	6.60kbps			
	5.15kbps	8.85kbps			
	5.9kbps	12.65kbps			
	6.7kbps	14.25kbps			
	7.4kbps	15.85kbps			

Device Support Codec					
VoLTE Codec/bitrate investigation					
Codec	AMR NB	AMR WB	EVS NB	EVS WB	EVS SWB
Bitrate	4.75kbps	6.60kbps	5.9kbps	5.9kbps	9.6kbps
	5.15kbps	8.85kbps	7.2kbps	7.2kbps	13.2kbps
	5.9kbps	12.65kbps	8kbps	8kbps	16.4kbps
	6.7kbps	14.25kbps	9.6kbps	9.6kbps	24.4kbps
	7.4kbps	15.85kbps	13.2kbps	13.2kbps	32kbps
			16.4kbps	16.4kbps	48kbps
			24.4kbps	24.4kbps	64kbps
					96kbps
					128kbps

Refer to Appendix B.

Test Engineer : Ainsley Yang, and Vic Ko

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6. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
Universal Radio Communication Tester	R&S	CMW500	168045	Mar. 11, 2025	1 Year
Head and Torso Simulator (HATS)	B&K	4128C	2757226	Apr. 15, 2025	1 Year

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7. Measurement Uncertainty

Uncertainty Component	Uncertainty (±%)	Prob. Dist.	Div.	c _i	Std. Uncertainty (±%)
Measurement Accuracy Parameters					
Electrical Signal Power of LabCORE Analog Inputs	2.33	Rectangular	1.732	1	1.34
Sound Pressure	2.33	Rectangular	1.732	1	1.34
Time	0.00000225	Rectangular	1.732	1	0.0000013
Frequency	0.00000225	Rectangular	1.732	1	0.0000013
Clock	0.00000225	Rectangular	1.732	1	0.0000013
Signal Generation Accuracy					
Tolerance Range of Sound Pressure Level at MRP	12.20	Rectangular	1.732	1	7.04
Electrical Excitation Level of LabCORE analog Output	1.16	Rectangular	1.732	1	0.67
Frequency Generation	0.00000225	Rectangular	1.732	1	0.0000013
Test Sample Related					
Receive Volume Control Performance	0.06	Normal	1	1	0.06
Receive Distortion and Noise Performance	0.19	Normal	1	1	0.19
Receive Acoustic Frequency Response Performance	1.24	Normal	1	1	1.24
Combined Standard Uncertainty U _c =		Expanded Uncertainty			
Receive Volume Control Performance	7.33	Receive Volume Control Performance			14.66
Receive Distortion and Noise Performance	7.33	Receive Distortion and Noise Performance			14.66
Receive Acoustic Frequency Response Performance	7.43	Receive Acoustic Frequency Response Performance			14.86
Note : Expanded Std. Uncertainty Power, Coverage Factor = 2, > 95% Confidence					

Uncertainty Budget for HAC Volume Control

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8. Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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