



RF MEASUREMENT REPORT

FCC ID: HD5-CT70VDWL
Applicant: Honeywell International Inc
Product: Vehicle Dock
Model No.: CT70-VD-WL
Brand Name: Honeywell
FCC Classification: Part 15 Low Power Transmitter Below 1705 kHz (DCD)
FCC Rule Part(s): Part15 Subpart C (Section 15.209)
Result: Complies
Received Date: 2025-11-26
Test Date: 2025-11-28 ~ 2025-12-02

Reviewed By:

Denise Zhou

Denise Zhou

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1024112-U203	V01	Initial Report	2025-12-09	Invalid
R25S1024112-U203	V02	Correct WPT specification and test mode	2025-12-17	Valid

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1. General Information

1.1. Applicant

Honeywell International Inc
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551
	FCC: CN1166 ISED: CN0001
☐	Test Site - MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551
	FCC: CN1284 ISED: CN0105
☐	Test Site - MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261
	FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	Vehicle Dock
Model No.	CT70-VD-WL
Brand Name	Honeywell
Serial No.	25311B1825
Bluetooth Specification	Dual mode, (BR/EDR& BLE 1M)
WPT Specification	110.1 ~ 148 kHz
Antenna Specification	Refer to Section 1.5
Operating Temp.	-20 ~ 50 °C
Power Type	Battery (12 VDC & 24 VDC)
Notes: 1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer. 2. There is no difference between product in 12 V supply and in 24 V supply; after evaluating, we select 12 V supply to test.	

1.5. Radio Specification under Test

Frequency Range	110.1 ~ 148 kHz
Modulation	ASK & FSK
Antenna Type	Coil Antenna

2. Test Configuration

2.1. Test Mode

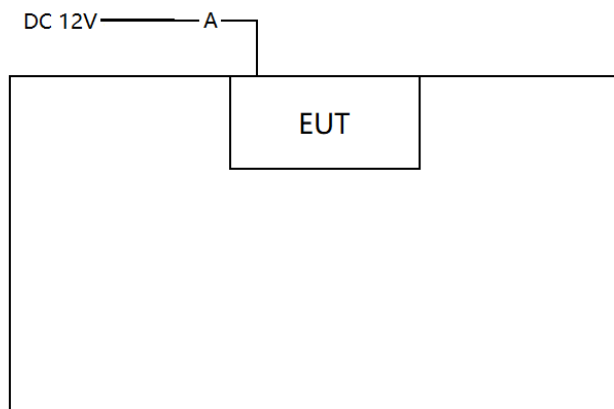
Mode 1: Standby Mode at Frequency 110.1 ~ 148 kHz.

Mode 2: Charge the Mobile Phone at Frequency 110.1 ~ 148 kHz.

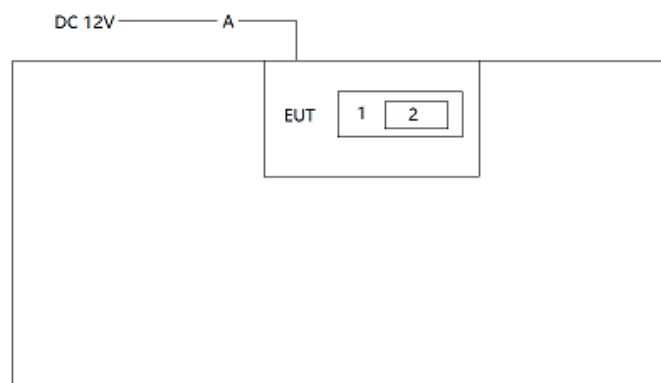
2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10:2020 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Mode 1



Mode 2



Cable Type		Cable Description	Length
A	DC Power Cable	Non-Shielded	1.5m
Product		Manufacturer	Model No.
1	Mobile Phone	Honeywell	CT70-L0
2	Rechargeable Li-ion Battery Pack	Honeywell	CT70-BTWC

2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.209
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2026-10-16	SIP-AC3
Signal Generator	Keysight	N5182B	MRTSUE06605	1 year	2026-08-31	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2026-07-03	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2025-12-20	SIP-AC3
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2026-01-21	SIP-AC3
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2025-12-05	SIP-AC3
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07075	1 year	2026-11-18	SIP-AC3
Cable	HUBER+SUHNER	SF106	MRTSUE06873	1 year	2025-12-19	SIP-AC3

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802BS	1.02	RE Antenna & Turntable

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
9 kHz ~ 150 kHz:	3.58 dB
150 kHz ~ 30 MHz:	3.20 dB
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9 kHz ~ 30 MHz: 2.35 dB
Coplanar:	9 kHz ~ 30 MHz: 2.37 dB
Horizontal:	30 MHz ~ 200 MHz: 3.47 dB
	200 MHz ~ 1 GHz: 4.17 dB
	1 GHz ~ 40 GHz: 4.97 dB
Vertical:	30 MHz ~ 200 MHz: 4.07 dB
	200 MHz ~ 1 GHz: 5.28 dB
	1 GHz ~ 40 GHz: 4.84 dB

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.215 (c)	20 dB Bandwidth	Radiated	Pass
15.209	General Field Strength Limits		Pass
15.207	AC Conducted Emissions 150 kHz – 30 MHz	Line Conducted	N/A

Note: “N/A” means that this item is not applicable, and the detail information refer to relevant section.

6.2. 20 dB Bandwidth Measurement

6.2.1. Test Limit

N/A

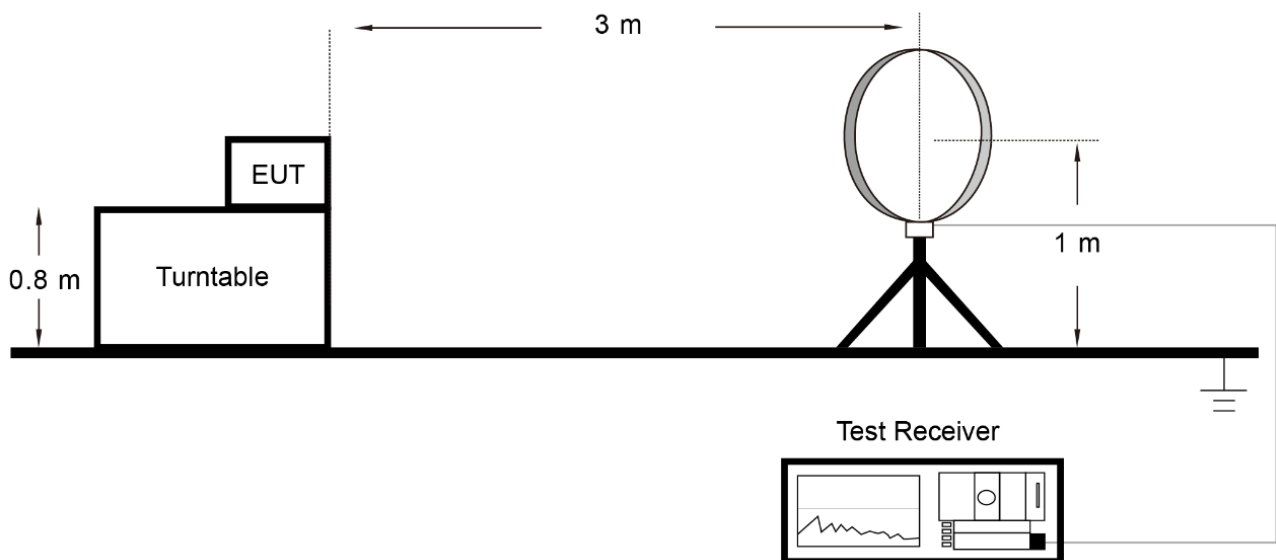
6.2.2. Test Procedure

ANSI C63.10-2020 Clause 6.9.2

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 20$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. The span range shall be between two times and five times the OBW
3. Set RBW = approximately half of the OBW
4. $VBW \geq 3 \times RBW$
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. Allow the trace to stabilize.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. General Field Strength Measurement

6.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.3.2. Test Procedure

ANSI C63.10 - 2020 - Section 6.3 (General Requirements)

ANSI C63.10 - 2020 - Section 6.4 (Standard test method below 30 MHz)

ANSI C63.10 - 2020 - Section 6.5 (Standard test method above 30 MHz to 1 GHz)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz

Peak Measurements below 30 MHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = Peak
5. Sweep time = auto couple

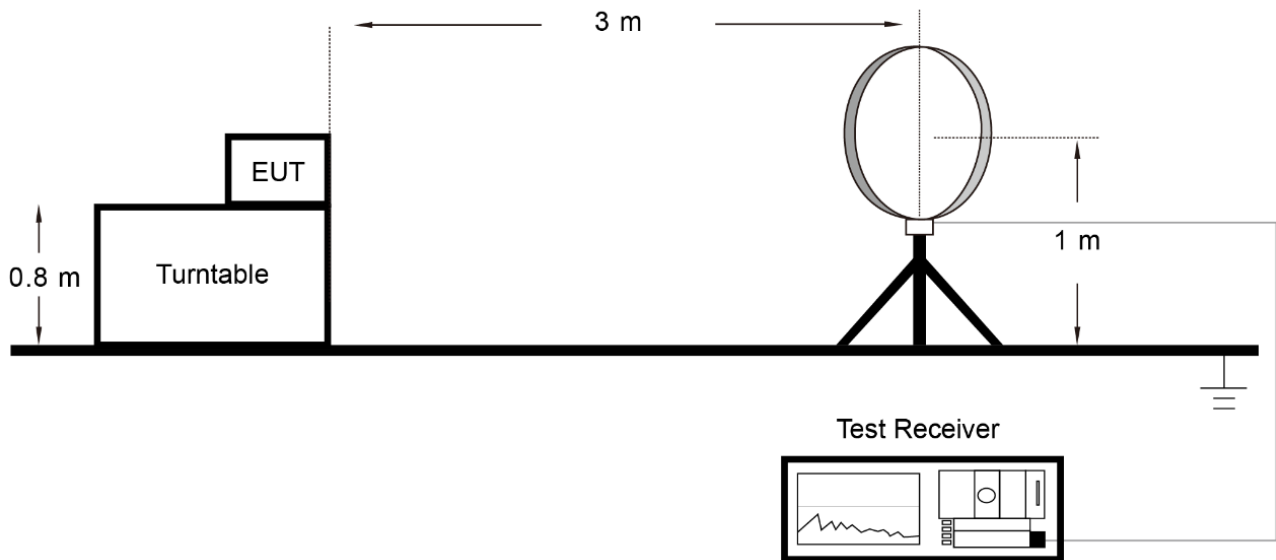
6. Trace was allowed to stabilize

Quasi-Peak Measurements below 1 GHz

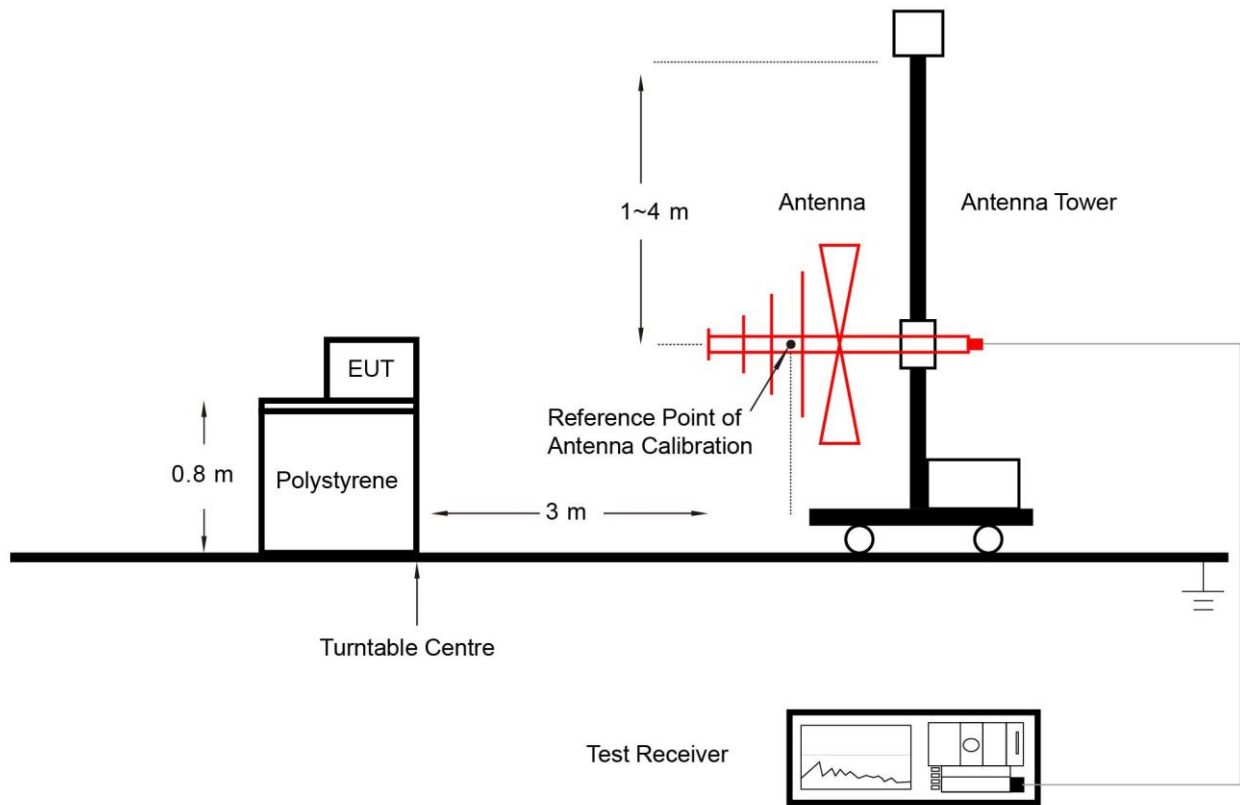
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

6.3.4. Test Setup

Below 30 MHz Test Setup:



30 MHz ~ 1 GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. AC Conducted Emissions Measurement

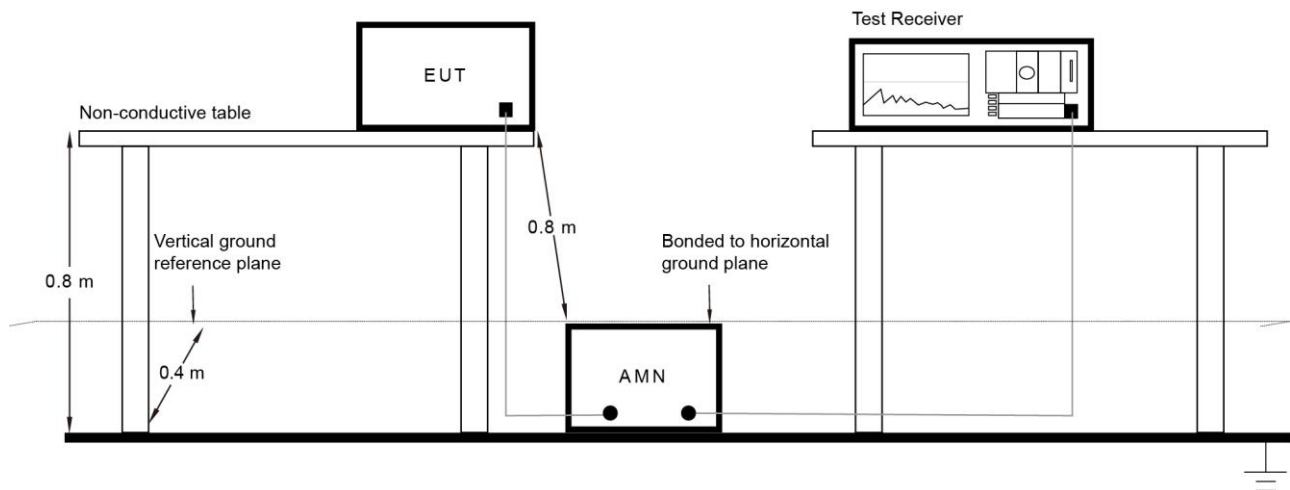
6.4.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

6.4.2. Test Setup



6.4.3. Assessment Result

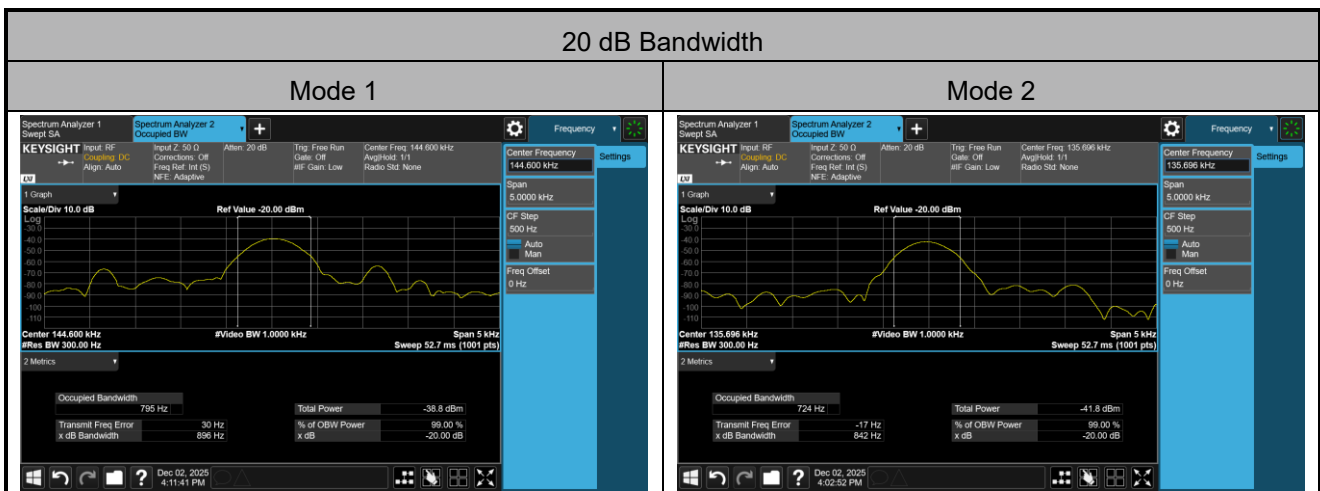
This device is powered by battery, so the item is not applicable.

Appendix A - Test Result

A.1 20 dB Bandwidth Test Result

Test Site	SIP-AC3	Test Engineer	Chase Zhu
Test Date	2025-12-02		

Test Mode	20dB Bandwidth (Hz)
Mode 1	896
Mode 2	842



Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

A.2 General Field Strength Test Result

Test Site	SIP-AC3	Test Engineer	Chase Zhu
Test Date	2025-11-28 ~ 2025-12-02	Test Mode	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Fundamental Radiated Emission							
0.145	67.94	19.75	87.69	104.38	-16.69	Peak	Coaxial
0.145	64.18	19.75	83.93	104.38	-20.45	Peak	Coplanar
Radiated Spurious Emission							
0.02	29.60	19.73	49.33	121.44	-72.11	Peak	Coaxial
0.033	17.44	19.64	37.08	117.20	-80.12	Peak	Coaxial
0.041	16.01	19.63	35.64	115.41	-79.77	Peak	Coaxial
0.063	13.77	19.42	33.19	111.60	-78.41	Peak	Coaxial
0.11	44.85	19.40	64.25	106.76	-42.51	Peak	Coaxial
0.145	64.46	19.40	83.86	104.40	-20.54	Peak	Coaxial
0.15	51.09	19.40	70.49	104.08	-33.59	Peak	Coaxial
0.287	46.40	19.33	65.73	98.46	-32.73	Peak	Coaxial
0.434	42.62	19.32	61.94	94.86	-32.92	Peak	Coaxial
0.579	33.76	19.30	53.06	72.36	-19.30	Peak	Coaxial
0.722	33.00	19.32	52.32	70.44	-18.12	Peak	Coaxial
0.866	28.71	19.31	48.02	68.87	-20.85	Peak	Coaxial
1.013	27.28	19.31	46.59	67.51	-20.92	Peak	Coaxial
0.01	34.77	20.43	55.20	127.58	-72.38	Peak	Coplanar
0.02	30.07	19.72	49.79	121.42	-71.63	Peak	Coplanar
0.05	17.00	19.52	36.52	113.61	-77.09	Peak	Coplanar
0.086	11.53	19.39	30.92	108.88	-77.96	Peak	Coplanar
0.11	41.16	19.40	60.56	106.76	-46.20	Peak	Coplanar
0.144	60.82	19.40	80.22	104.40	-24.18	Peak	Coplanar
0.15	47.03	19.40	66.43	104.08	-37.65	Peak	Coplanar
0.162	42.73	19.39	62.12	103.43	-41.31	Peak	Coplanar
0.293	41.78	19.33	61.11	98.27	-37.16	Peak	Coplanar
0.433	38.52	19.32	57.84	94.87	-37.03	Peak	Coplanar
0.723	30.84	19.32	50.16	70.43	-20.27	Peak	Coplanar
1.014	25.07	19.32	44.39	67.50	-23.11	Peak	Coplanar
1.301	22.71	19.34	42.05	65.34	-23.29	Peak	Coplanar
33.002	-3.10	17.04	13.94	40.00	-26.06	QP	Horizontal

43.567	-3.10	18.10	15.00	40.00	-25.00	QP	Horizontal
78.661	-4.90	14.37	9.47	40.00	-30.53	QP	Horizontal
590.767	-9.00	25.70	16.70	46.00	-29.30	QP	Horizontal
742.78	-9.20	28.53	19.33	46.00	-26.67	QP	Horizontal
918.32	-8.80	30.27	21.47	46.00	-24.53	QP	Horizontal
32.795	13.40	17.03	30.43	40.00	-9.57	QP	Vertical
43.582	14.70	18.10	32.80	40.00	-7.20	QP	Vertical
45.232	9.90	18.20	28.10	40.00	-11.90	QP	Vertical
47.759	10.40	18.31	28.71	40.00	-11.29	QP	Vertical
50.374	9.20	18.34	27.54	40.00	-12.46	QP	Vertical
54.299	6.80	18.16	24.96	40.00	-15.04	QP	Vertical
Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m)							

Test Site	SIP-AC3	Test Engineer	Chase Zhu
Test Date	2025-11-28 ~ 2025-12-02	Test Mode	Mode 2

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Fundamental Radiated Emission							
0.136	65.07	19.75	84.82	104.93	-20.11	Peak	Coaxial
0.134	61.87	19.75	81.62	105.06	-23.44	Peak	Coplanar
Radiated Spurious Emission							
0.081	20.23	19.40	39.63	109.45	-69.82	Peak	Coaxial
0.089	21.82	19.39	41.21	108.57	-67.36	Peak	Coaxial
0.097	25.20	19.39	44.59	107.86	-63.27	Peak	Coaxial
0.101	25.22	19.40	44.62	107.51	-62.89	Peak	Coaxial
0.105	23.82	19.40	43.22	107.17	-63.95	Peak	Coaxial
0.135	60.75	19.41	80.16	104.97	-24.81	Peak	Coaxial
0.27	24.39	19.34	43.73	98.98	-55.25	Peak	Coaxial
0.406	42.21	19.30	61.51	95.43	-33.92	Peak	Coaxial
0.676	32.95	19.31	52.26	71.01	-18.75	Peak	Coaxial
0.946	27.58	19.31	46.89	68.11	-21.22	Peak	Coaxial
1.217	23.10	19.33	42.43	65.92	-23.49	Peak	Coaxial
1.487	20.63	19.36	39.99	64.19	-24.20	Peak	Coaxial
0.01	33.30	20.43	53.73	127.57	-73.84	Peak	Coplanar
0.02	28.48	19.73	48.21	121.47	-73.26	Peak	Coplanar
0.093	20.13	19.39	39.52	108.19	-68.67	Peak	Coplanar
0.097	20.49	19.39	39.88	107.83	-67.95	Peak	Coplanar
0.101	20.78	19.40	40.18	107.48	-67.30	Peak	Coplanar
0.135	57.09	19.41	76.50	104.98	-28.48	Peak	Coplanar
0.405	38.26	19.29	57.55	95.45	-37.90	Peak	Coplanar
0.674	29.61	19.31	48.92	71.04	-22.12	Peak	Coplanar
0.947	24.27	19.31	43.58	68.09	-24.51	Peak	Coplanar
1.215	20.39	19.33	39.72	65.94	-26.22	Peak	Coplanar
2.004	19.13	19.41	38.54	69.50	-30.96	Peak	Coplanar
6.977	19.88	19.56	39.44	69.50	-30.06	Peak	Coplanar
32.968	2.90	17.04	19.94	40.00	-20.06	QP	Horizontal
45.328	-3.50	18.20	14.70	40.00	-25.30	QP	Horizontal
51.409	-2.80	18.33	15.53	40.00	-24.47	QP	Horizontal
72.034	-2.00	15.58	13.58	40.00	-26.42	QP	Horizontal

745.65	-9.20	28.66	19.46	46.00	-26.54	QP	Horizontal
933.58	-8.60	30.67	22.07	46.00	-23.93	QP	Horizontal
33.141	12.20	17.05	29.25	40.00	-10.75	QP	Vertical
43.659	14.90	18.11	33.01	40.00	-6.99	QP	Vertical
47.86	13.10	18.31	31.41	40.00	-8.59	QP	Vertical
50.356	13.80	18.34	32.14	40.00	-7.86	QP	Vertical
51.989	14.00	18.31	32.31	40.00	-7.69	QP	Vertical
528.987	-9.00	24.16	15.16	46.00	-30.84	QP	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							

Appendix B - Test Setup Photograph

Refer to "R25S1024112-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1024112-UE" file.

_____ The End _____