



RF MEASUREMENT REPORT

FCC ID: HD5-CT40L0N

Applicant: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Product: DOLPHIN CT40

Model No.: CT40-L0N

Brand Name: Honeywell

FCC Classification: Part 15 Low Power Communication Device Transmitter (DXX)

FCC Rule Part(s): Part 15 Subpart C (Section 15.225)

Result: Complies

Test Date: 2022-06-07 ~ 2022-06-24

Reviewed By:

Jame Yuan

Approved By:

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 and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the 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
2205RSU061-U1	Rev. 01	Initial Report	2022-06-25	Valid

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1.1. Applicant

1.2. Manufacturer

1.3. Testing Facility

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1.4. Product Information

Product Name	DOLPHIN CT40
Model No.	CT40-L0N
EUT Identification No.	20220525Sample#01
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.0 dual mode
SRD Specification	NFC 13.56MHz
Accessories	
USB Adapter	Model No.: ADS-12B-06 05010E Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A Output Power: 5VDC 2.0A
Snap-on Adapter	Model No.: CT40-SN
Battery	Model No.: CT50-BTSC Capacitance: 15.5Wh, 4090mAh Rated Voltage: 3.8V Limit Charge Voltage: 4.36V
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Frequency Range	13.56MHz
Channel Number	1
Type of modulation	ASK
Antenna Type	Loop Antenna

Note: For other features of this EUT, test report will be issued separately.

2. Test Configuration

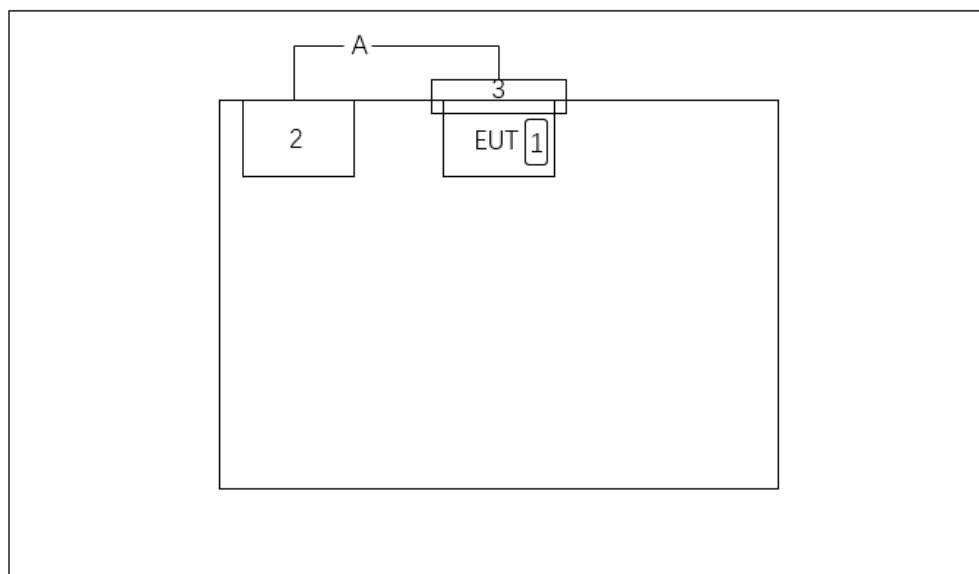
2.1. Test Mode

Mode 1: Make the EUT read the tag via NFC

2.2. Test Configuration and Software

The device was tested per the guidance ANSI C63.10-2013 that was used to reference the appropriate EUT setup for radiated spurious emissions and AC line conducted emission testing.

Mode 1



Cable Type		Cable Description	
A	USB Cable	Shielded, 1.2 m	
Product		Manufacturer	Model No.
1	NFC card	N/A	N/A
2	USB Adapter	SHENZHEN HONOR ELECTRONIC CO., LTD	ADS-12B-06 05010E
3	Snap-on Adapter	Honeywell	CT40-SN

2.3. Applied Standards

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

- FCC Part 15.225
- ANSI C63.10-2013

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 this 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 Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2023-06-04	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	N/A	N/A	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2023-06-06	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2022-11-01	WZ-SR2
Thermohygrometer	testo	Testo 608-H1	MRTSUE11039	1 year	2022/11/11	WZ-AC1
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022-12-29	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022-08-05	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2023-04-21	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2023-06-06	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022-12-29	WZ-AC1
Thermohygrometer	testo	Testo 608-H1	MRTSUE11039	1 year	2022-11-11	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022-10-28	WZ-AC1
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2022-10-10	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2023-06-06	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022-12-29	WZ-TR3

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software

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
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): Horizontal: 9kHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 9kHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB

6. Test Result

6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result	Reference
15.225 (a), (b), (c)	In-Band Emission	Radiated	Pass	Section 6.2
15.225(d)	Out-Band Emission		Pass	Section 6.3
15.215(c)	20dB Bandwidth		Pass	Section 6.4
15.225(e)	Frequency Stability Tolerance		Pass	Section 6.5
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass	Section 6.6

Note: For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. In-band Emission Measurement

6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.225		
Frequency (MHz)	Distance (m)	Level (μV/m)
13.553 ~13.567	30	15848
13.410 ~13.553, 13.567 ~13.710	30	334
13.110 ~13.410, 13.710 ~14.010	30	106
Note 1: The lower limit shall apply at the transition frequency. Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. Note 3: E field strength (dBμV/m) = 20 log E field strength (μV/m)		

6.2.2. Test Procedure

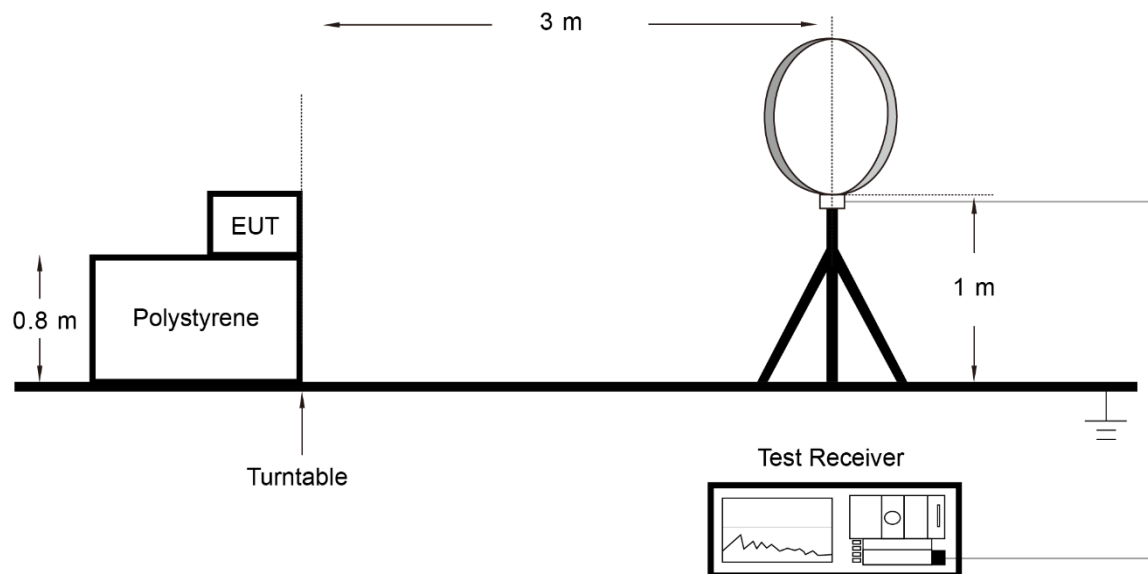
ANSI C63.10-2013 - Section 6.4.7

6.2.3. Test Setting

1. RBW = 9kHz
2. VBW = 3 * RBW
3. Detector = Peak
4. Trace mode = Max hold
5. Sweep = Auto couple
6. Allow the trace to stabilize

6.2.4. Test Setup

9kHz ~ 30MHz Test Setup:



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Out-band Emission Measurement

6.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (μ V/m)
0.009 - 0.490	300	2400/F (kHz)
0.490 - 1.705	30	24000/F (kHz)
1.705 - 30	30	30
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
Above 960	3	500

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

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)

6.3.2. Test Procedure

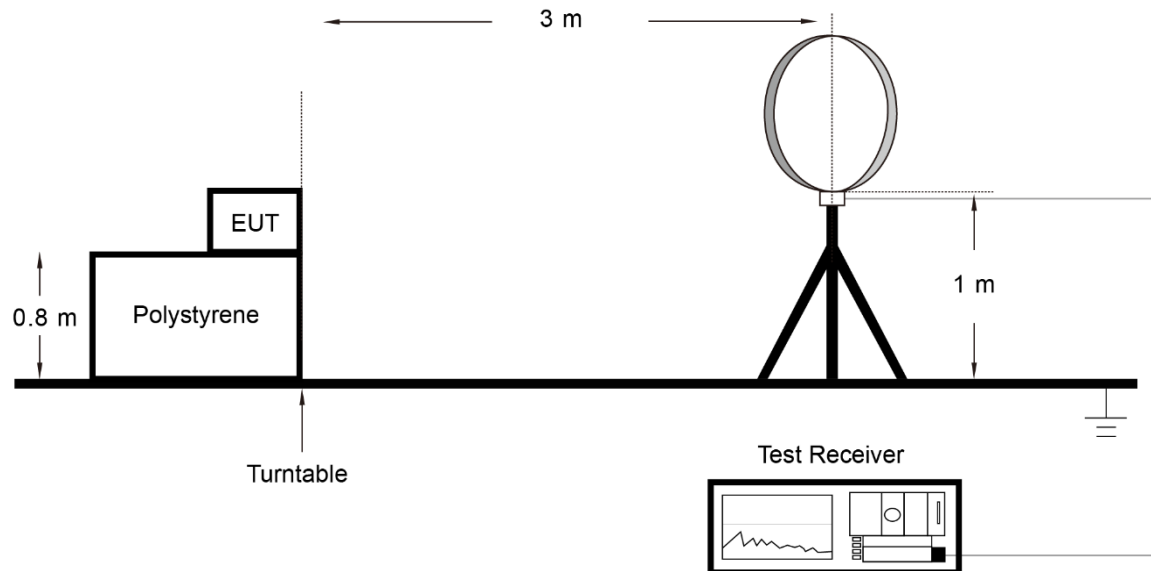
ANSI C63.10-2013 - Section 6.5.4

6.3.3. Test Setting

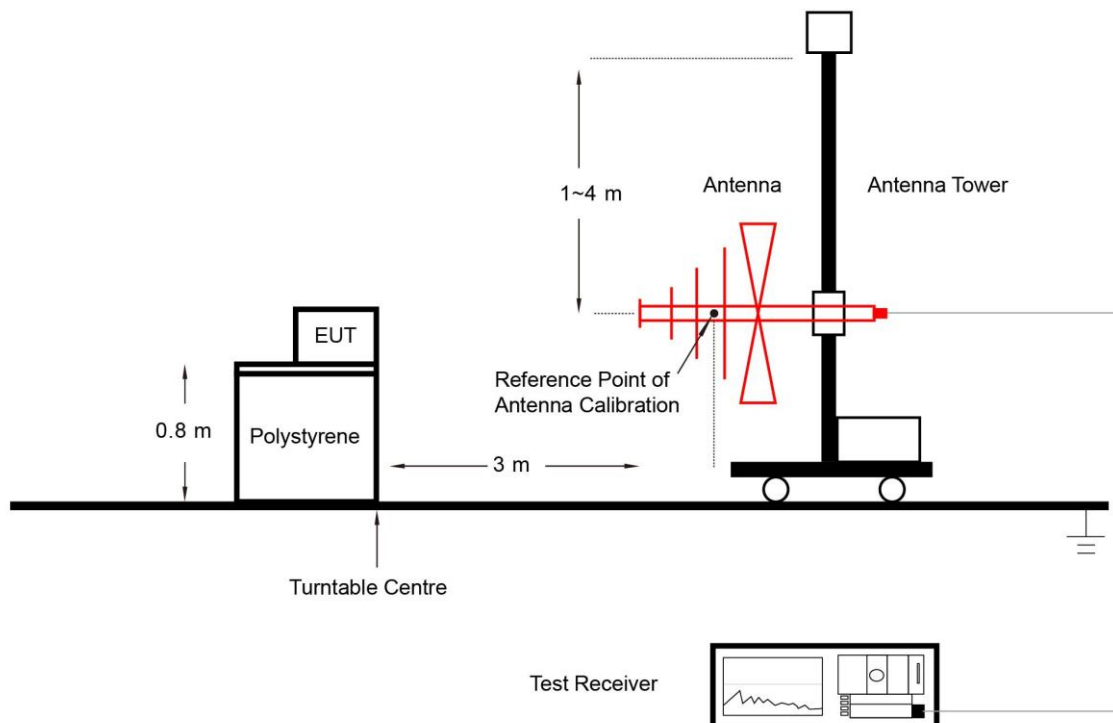
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 9kHz for emission below 30MHz and 100kHz for emission between 30MHz and 1GHz
3. VBW = 3 * RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.3.4. Test Setup

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Occupied Bandwidth Measurement

6.4.1. Test Limit

The occupied bandwidth is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency.

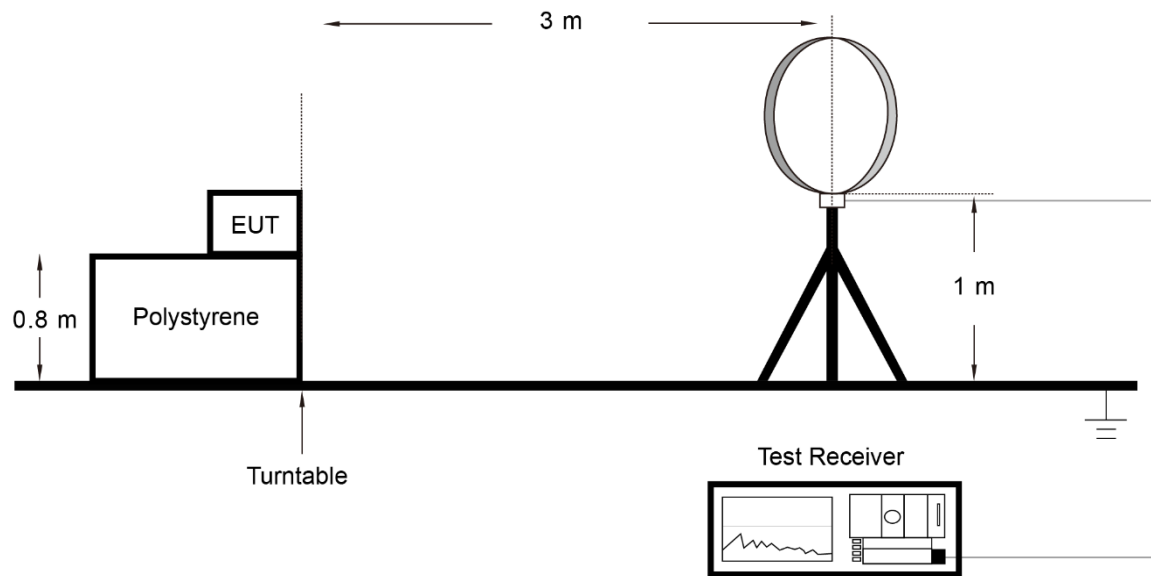
6.4.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.2

6.4.3. Test Setting

1. Set RBW $\geq$ 1% to 5% of the 20dB bandwidth
2. VBW = approximately three times RBW
3. Span = approximately 2 to 5 times the 20dB bandwidth
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Frequency Tolerance Measurement

6.5.1. Test Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 6.8

6.5.3. Test Setting

Frequency Stability Under Temperature Variations:

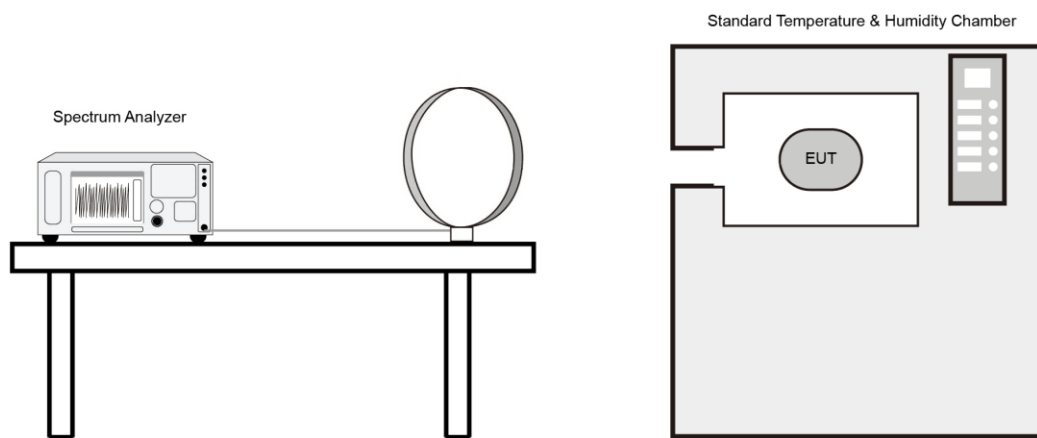
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change. For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

6.6. AC Conducted Emissions Measurement

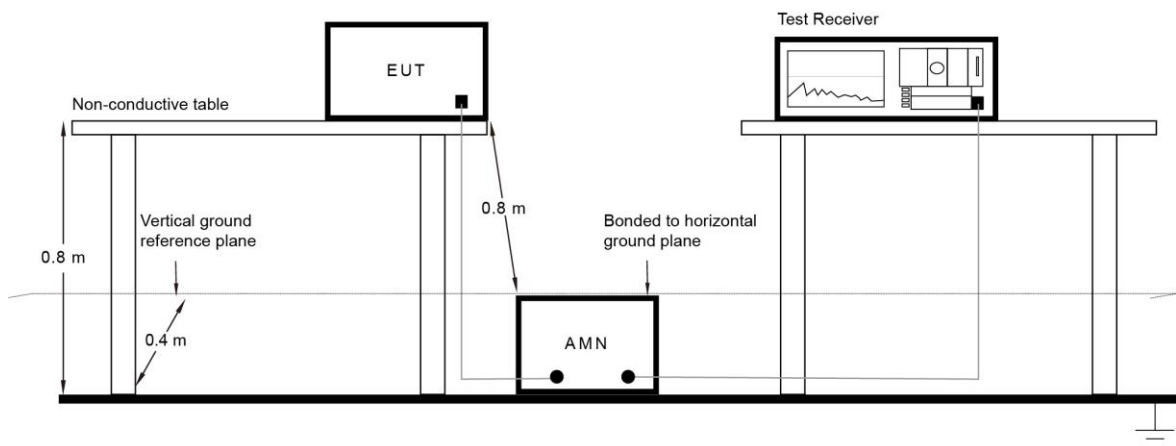
6.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
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 0.15MHz to 0.5MHz.

6.6.2. Test Setup



6.6.3. Test Result

Refer to Appendix A.5.

Appendix A - Test Result

A.1 In-band Emission Test Result

Test Engineer	Hyde Yu	Test Date	2022/06/07
Test Mode	Mode 1	Test Site	WZ-AC1

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (@3m) (dBμV/m)	Margin [dB]
Coaxial					
13.349	12.521	17.038	29.559	80.506	-50.947
13.453	14.827	17.036	31.863	90.488	-58.625
13.561	31.450	17.034	48.484	123.999	-75.515
13.660	16.544	17.032	33.576	90.488	-56.912
13.771	15.777	17.030	32.807	80.506	-47.699
Coplanar					
13.283	10.391	17.039	27.430	80.506	-53.076
13.465	12.244	17.036	29.280	90.488	-61.208
13.560	27.928	17.034	44.962	123.999	-79.037
13.676	13.427	17.031	30.458	90.488	-60.030
13.773	13.586	17.030	30.616	80.506	-49.890

Note

1. All measurements were performed using a loop antenna. The antenna was positioned in two orthogonal (coaxial and coplanar) and the position with the highest emission level was recorded.
2. Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

$$\text{Extrapolation Factor} = 20 \cdot \log(30/3)^2 = 40 \text{ dB}$$

$$\text{For example, Limit (@3m)} = 20 \cdot \log(106) + 40 = 80.506 \text{ dB}\mu\text{V/m}$$
3. All measurements were recorded using an EMI test receiver employing a peak detector.

A.2 Out-Band Emission Test Result

Test Engineer	Hyde Yu	Test Date	2022/06/07
Test Mode	Mode 1	Test Site	WZ-AC1

Out-Band Emission Below 30MHz						
Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit(@3m) (dBμV/m)	Margin (dB)	Detector
Coaxial						
1.150	15.713	17.501	33.214	66.390	-33.176	Peak
Coplanar						
1.090	17.107	17.502	34.609	66.856	-32.247	Peak

Out-Band Emission Above 30MHz							
Polarization	Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
H	40.670	1.370	17.803	19.173	40.000	-20.827	Peak
H	53.765	0.619	18.288	18.907	40.000	-21.093	Peak
H	67.345	0.992	16.468	17.460	40.000	-22.540	Peak
H	80.440	0.816	13.390	14.206	40.000	-25.794	Peak
H	107.115	-0.881	14.044	13.163	43.500	-30.337	Peak
H	121.180	-1.546	15.451	13.905	43.500	-29.595	Peak
V	40.670	11.261	17.803	29.064	40.000	-10.936	Peak
V	53.765	3.533	18.288	21.821	40.000	-18.179	Peak
V	67.345	4.789	16.468	21.257	40.000	-18.743	Peak
V	94.505	1.160	12.274	13.434	43.500	-30.066	Peak
V	117.785	-0.071	15.123	15.052	43.500	-28.448	Peak
V	131.850	-0.823	16.543	15.720	43.500	-27.780	Peak

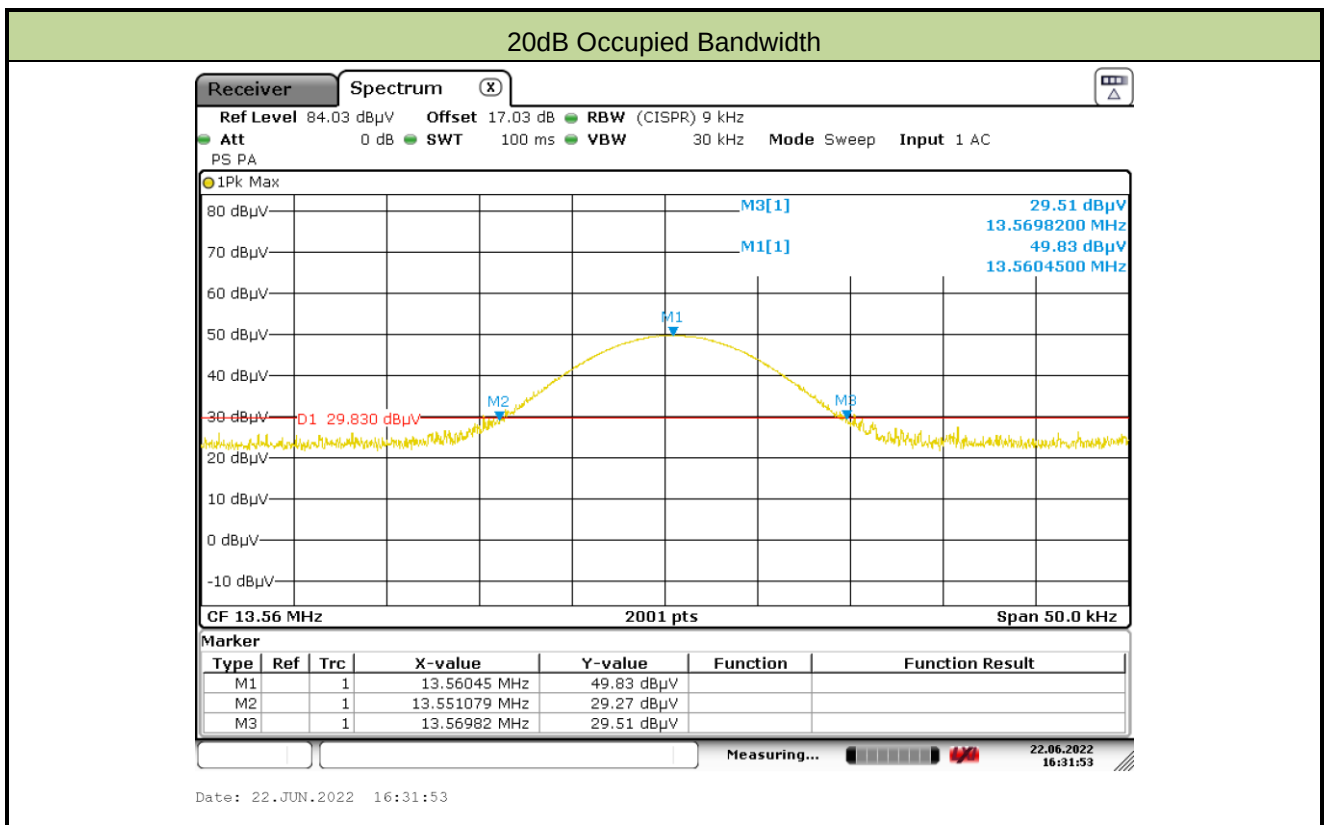
Note

- Below 30MHz measurement was performed using a loop antenna. The antenna was positioned in two orthogonal (coaxial and coplanar) and the position with the highest emission level was recorded.
- Measurements were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).
Extrapolation Factor = $40 \times \log(30/3)^2 = 40$ dB
For example, Limit (@3m) = $20 \times \log(20.87) + 40 = 66.390$ dBμV/m
- All measurements were recorded using an EMI test receiver employing a peak detector.

A.3 Occupied Bandwidth Test Result

Test Engineer	Hyde Yu	Test Date	2022/06/22
Test Mode	Mode 1	Test Site	WZ-AC1

Frequency (MHz)	20dB Occupied Bandwidth (kHz)
13.56	18.741



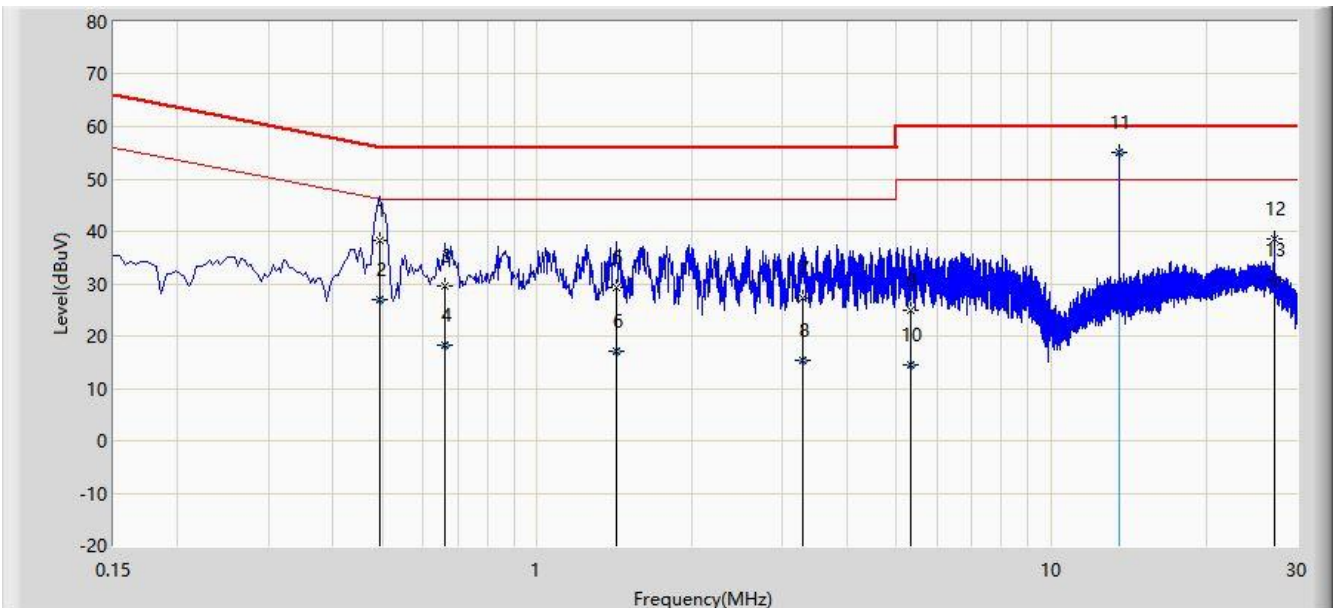
A.4 Frequency Stability Tolerance Test Result

Test Engineer	Hyde Yu	Test Date	2022/06/07
Test Mode	Mode1	Test Site	WZ-TR3

Reference Voltage: 3.80V			
Deviation Limit: +/- 0.01% = +/- 1356Hz			
Voltage (%)	Power Battery	Temp (°C)	Frequency Deviation (Hz)
100	3.80V	-20	-368
		-10	-467
		0	366
		+10	466
		+20	261
		+30	865
		+40	799
		+50	564
Battery Upper	3.50V	+ 20	364
Battery End Point	4.30V	+ 20	825

A.5 AC Conducted Emissions Test Result

Site: WZ-SR2	Time: 2022/06/15 - 11:25
Temperature: 22°C	Humidity: 54.7%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Alin Zhou
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: DOLPHIN CT40	Power: AC 120V/60Hz
Test Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.494	38.340	28.421	-17.760	56.100	9.919	QP
2		0.494	26.924	17.005	-19.176	46.100	9.919	AV
3		0.662	29.705	19.778	-26.295	56.000	9.927	QP
4		0.662	18.216	8.289	-27.784	46.000	9.927	AV
5		1.426	29.231	19.273	-26.769	56.000	9.958	QP
6		1.426	17.136	7.178	-28.864	46.000	9.958	AV
7		3.290	27.136	16.929	-28.864	56.000	10.207	QP
8		3.290	15.377	5.170	-30.623	46.000	10.207	AV
9		5.330	24.884	14.344	-35.116	60.000	10.540	QP
10		5.330	14.568	4.027	-35.432	50.000	10.540	AV
11		13.558	55.059	44.104	NaN	NaN	10.955	PK
12		27.122	38.547	26.604	-21.453	60.000	11.943	QP
13		27.122	30.736	18.793	-19.264	50.000	11.943	AV

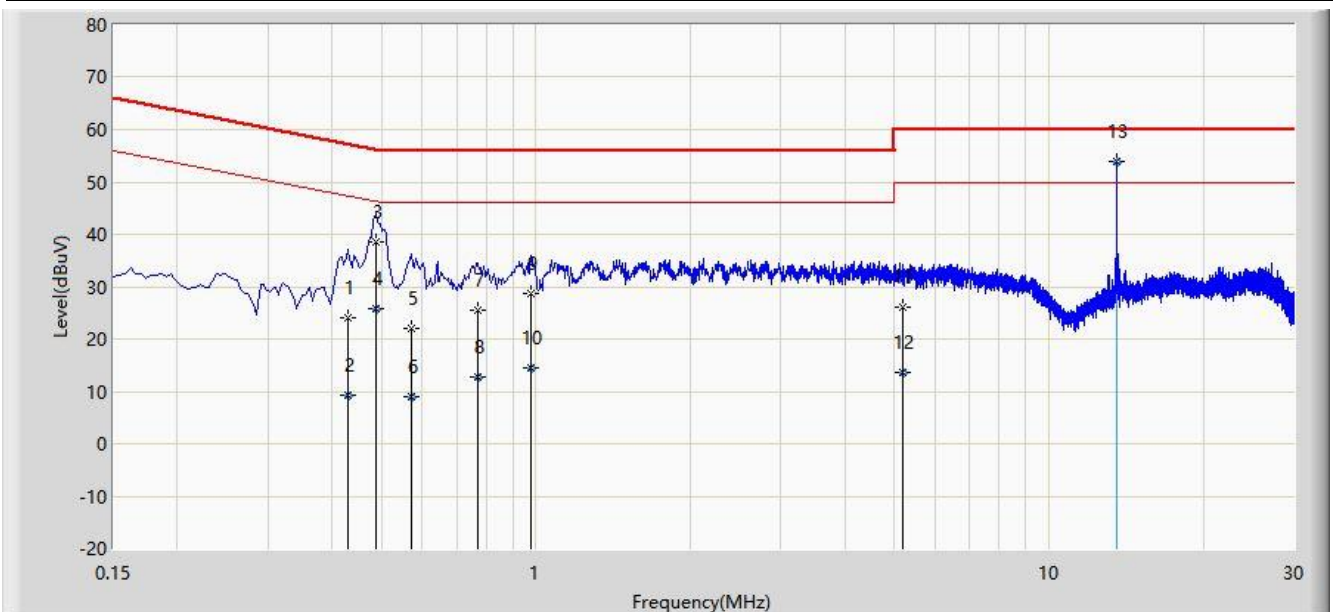
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Note 4: It is authenticated that the point (11) is NFC signal, so we can't take it as a reference.

Site: WZ-SR2	Time: 2022/06/15 - 11:46
Temperature: 22°C	Humidity: 54.7%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Alin Zhou
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: DOLPHIN CT40	Power: AC 120V/60Hz
Test Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.430	24.036	14.110	-33.217	57.253	9.925	QP
2		0.430	9.414	-0.511	-37.838	47.253	9.925	AV
3	*	0.486	38.576	28.647	-17.660	56.236	9.929	QP
4		0.486	25.789	15.860	-20.447	46.236	9.929	AV
5		0.570	22.102	12.165	-33.898	56.000	9.936	QP
6		0.570	8.918	-1.018	-37.082	46.000	9.936	AV
7		0.770	25.410	15.460	-30.590	56.000	9.951	QP
8		0.770	12.879	2.928	-33.121	46.000	9.951	AV
9		0.978	28.574	18.615	-27.426	56.000	9.959	QP
10		0.978	14.425	4.466	-31.575	46.000	9.959	AV
11		5.186	26.206	15.664	-33.794	60.000	10.542	QP
12		5.186	13.598	3.056	-36.402	50.000	10.542	AV
13		13.562	53.802	42.837	NaN	NaN	10.965	PK

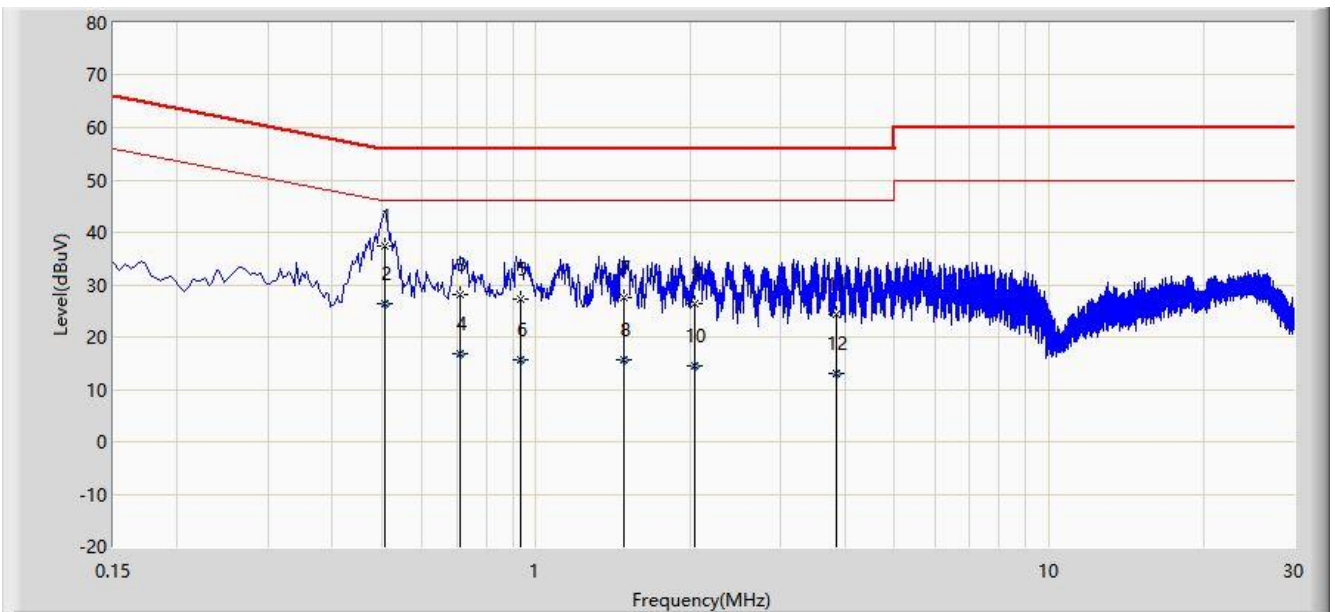
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Note 4: It is authenticated that the point (13) is NFC signal, so we can't take it as a reference.

Site: WZ-SR2	Time: 2022/06/24 - 14:38
Temperature: 21°C	Humidity: 66.2%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Alin Zhou
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: DOLPHIN CT40	Power: AC 120V/60Hz
Note: NFC Antenna port terminated	



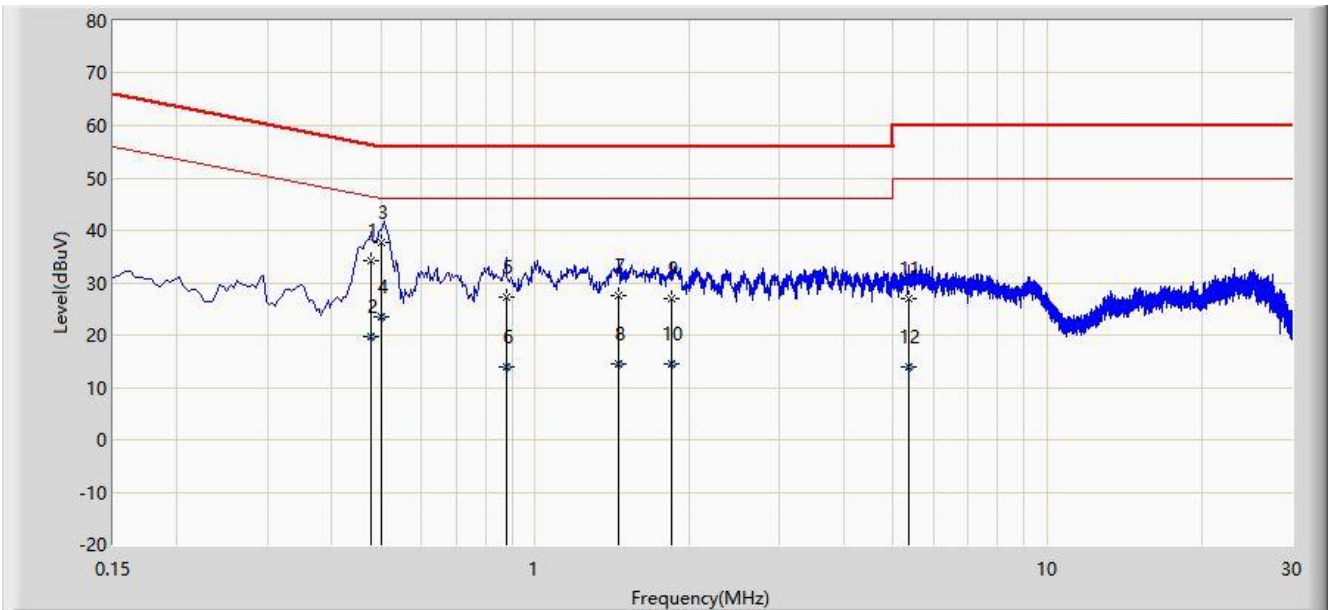
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.506	37.413	27.492	-18.587	56.000	9.920	QP
2		0.506	26.415	16.494	-19.585	46.000	9.920	AV
3		0.710	27.997	18.068	-28.003	56.000	9.928	QP
4		0.710	16.837	6.909	-29.163	46.000	9.928	AV
5		0.934	27.181	17.235	-28.819	56.000	9.946	QP
6		0.934	15.592	5.646	-30.408	46.000	9.946	AV
7		1.482	27.482	17.522	-28.518	56.000	9.960	QP
8		1.482	15.731	5.771	-30.269	46.000	9.960	AV
9		2.034	26.357	16.381	-29.643	56.000	9.977	QP
10		2.034	14.587	4.610	-31.413	46.000	9.977	AV
11		3.858	24.227	13.916	-31.773	56.000	10.311	QP
12		3.858	13.047	2.736	-32.953	46.000	10.311	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Time: 2022/06/24 - 14:43
Temperature: 21°C	Humidity: 66.2%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Alin Zhou
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: DOLPHIN CT40	Power: AC 120V/60Hz
Note: NFC Antenna port terminated	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.478	34.265	24.337	-22.108	56.374	9.928	QP
2		0.478	19.786	9.858	-26.588	46.374	9.928	AV
3	*	0.502	37.758	27.828	-18.242	56.000	9.930	QP
4		0.502	23.563	13.632	-22.437	46.000	9.930	AV
5		0.878	27.129	17.174	-28.871	56.000	9.955	QP
6		0.878	13.860	3.905	-32.140	46.000	9.955	AV
7		1.454	27.523	17.550	-28.477	56.000	9.973	QP
8		1.454	14.403	4.430	-31.597	46.000	9.973	AV
9		1.850	27.082	17.096	-28.918	56.000	9.985	QP
10		1.850	14.609	4.624	-31.391	46.000	9.985	AV
11		5.354	26.869	16.316	-33.131	60.000	10.552	QP
12		5.354	13.865	3.313	-36.135	50.000	10.552	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Appendix B - Test Setup Photograph

Refer to “2205RSU061-UT” file.

Appendix C - EUT Photograph

Refer to “2205RSU061-UE” file.

_____ The End _____