



RF MEASUREMENT REPORT

FCC ID: HD5-CK62X00

Applicant: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Product: Mobile Computer

Model No.: CK62H00

Brand Name: Honeywell

FCC Classification: Digital Transmission System (DTS) Clause 15.247(b)(3)
& 15.247(e) & 15.205, 15.209

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Result: Complies

Received Date: 2024-06-04

Test Date: 2024-07-04 ~ 2025-10-29

Reviewed By:

Ada Zhang

Ada Zhang

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
R25S1042095-U203	V01	Initial Report	2025-11-12	Valid

Note: This report is a FCC Class II Permissive Change report based on the original report “2406RSU006-U3”.

The product has been updated to include a handheld version, incorporating the following modifications:

1. Replacement of the standard back cover with an integrated pistol grip cover.
2. Minor modifications to the antennas.

Relevant test specifications are provided in Section 6.1.

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1. General Information

1.1. Applicant

Honeywell International Inc

Honeywell Safety and Productivity Solutions

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

1.2. Manufacturer

Honeywell International Inc

Honeywell Safety and Productivity Solutions

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	Mobile Computer
Model No.	CK62H00
Brand Name	Honeywell
EUT Identification No.	20240604Sample#11 (Conducted) 251017S#02 (Radiated)
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Bluetooth Specification	V5.3 dual mode
Antenna Information	Refer to Section 1.7
Power Type	By Battery
Accessory	
Rechargeable Li-ion Battery	Model No.: CK65-BTSC Nominal Voltage: 3.6 V Rated Capacity: 6800 mAh Nominal Capacity: 7000 mAh/25.2 Wh
Note: 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.	

1.5. Radio Specification under Test

Frequency Range	2400 ~ 2483.5 MHz	
Channel Number	802.11b/g/n-HT20/ax-HE20: 11 VHT20: 11 802.11n-HT40/ax-HE40: 7 VHT40: 7	
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM VHT: OFDM 802.11ax: OFDMA	
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300 Mbps 802.11ax: up to 573.6 Mbps VHT: up to 400 Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☒ Partial RU

1.6. Working Frequencies

802.11b/g/n-HT20/ax-HE20/VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40/ax-HE40/VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		Directional Gain (dBi)	
		Ant 2	Ant 3	Uncorrelated (For Power)	Correlated (For PSD)
Wi-Fi Antennas					
PIFA	2400 ~ 2500	2.55	2.28	2.55	5.56
	5150 ~ 5350	4.00	2.41	4.00	7.01
	5470 ~ 5725	4.16	3.97	4.16	7.17
	5725 ~ 5850	4.99	3.49	4.99	8.00
	5925 ~ 6425	5.88	2.50	5.88	8.89
	6425 ~ 6525	2.55	1.80	2.55	5.56
	6525 ~ 6875	1.46	2.14	2.14	5.15
	6875 ~ 7125	1.46	3.02	3.02	6.03

Note:

The EUT supports Cyclic Delay Diversity (CDD) mode, For CDD transmissions, directional gain is calculated as follows.

Directional gain = $G_{ANT\ Max}$ + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

$$\text{Array Gain} = 10 \log (N_{ANT/NSS}) \text{ dB};$$

- For power measurements on IEEE 802.11 devices,

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

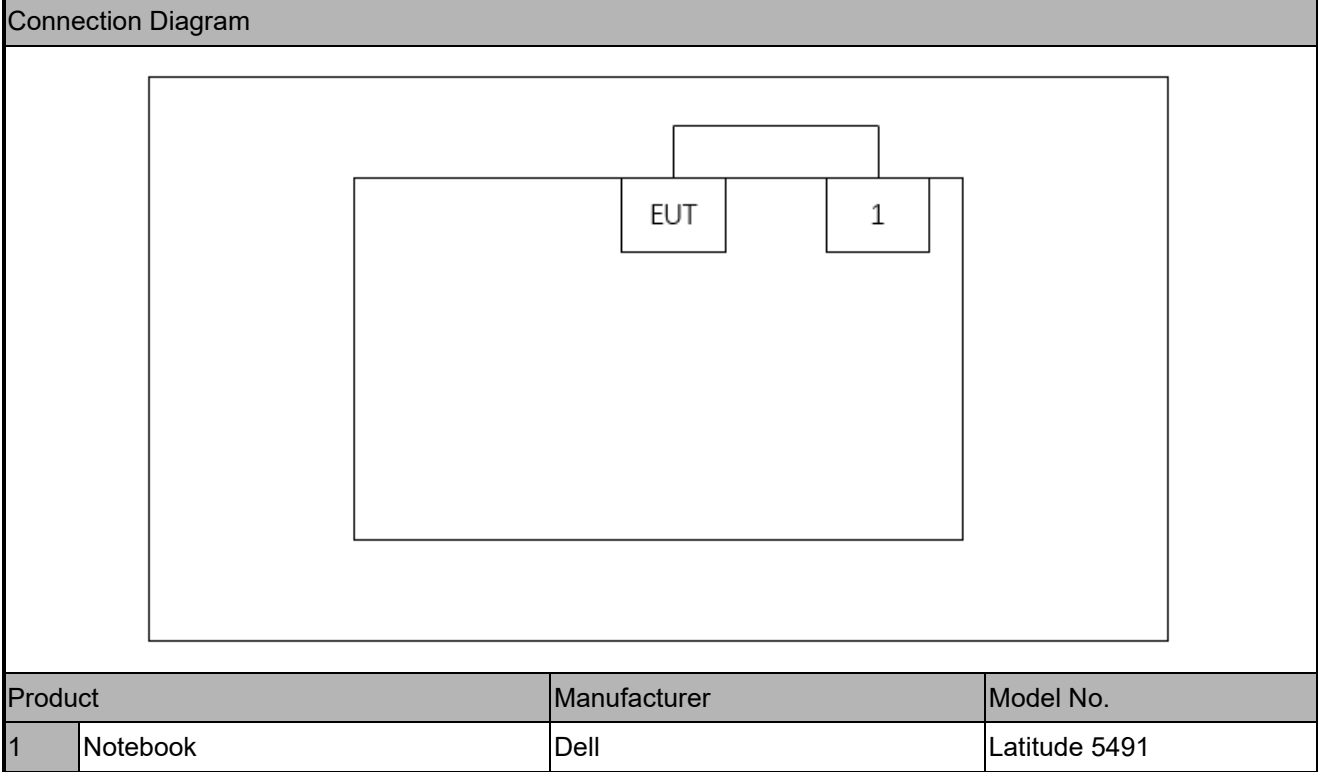
2. Test Configuration

2.1. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b (1 Mbps)
Mode 2: Transmit by 802.11g (6 Mbps)
Mode 3: Transmit by 802.11n-HT20 _N _{SS} =1 (MCS0)
Mode 4: Transmit by 802.11n-HT40 _N _{SS} =1 (MCS0)
Mode 5: Transmit by 802.11ax-HE20 _N _{SS} =1 (MCS0)
Mode 6: Transmit by 802.11ax-HE40 _N _{SS} =1 (MCS0)
Mode 7: Transmit by VHT20 _N _{SS} =1 (MCS0)
Mode 8: Transmit by VHT40 _N _{SS} =1 (MCS0)
Notes: 1. All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate. 2. For CDD mode, this device supports 2N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=1. 3. For 802.11ax, the EUT supports 26/52/106/242/484-tone RU, The PSD of the partial RU has been minimized to be less than full RU. 4. The 242-tone RU is covered by 20 MHz channel and 484-tone RU is covered by 40 MHz channel.

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.



2.3. Test Software

The test utility software used during testing was “QRCT”, and the version was 4.0.211.0.

Final power setting please refer to operational description.

2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01 v05r02
- KDB 662911 D01 v02r01
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

2.5. 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 of original tests

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Signal Generator	R&S	SMU200A	MRTSUE06490	1 year	2025-02-03	WZ-SR5
Signal Generator	R&S	SMBV100B	MRTSUE07095	1 year	2025-04-09	WZ-SR5
Bluetooth Test Set	Anritsu	MT8852B	MRTSUE06389	1 year	2025-05-08	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2025-02-03	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Signal Generator	Agilent	E4438C	MRTSUE06081	1 year	2025-02-03	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5

Software	Version	Function
BenchVue Power Meter	2018.1	Power

Instrument of new tests

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2026-04-26	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2026-09-12	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2026-10-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2025-12-05	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2026-05-11	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2026-10-08	WZ-AC1

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable
Controller_MF 7802	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 $k = 2$.

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
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.5 dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(3)	Output Power	Conducted	Pass
15.247(e)	Power Spectral Density		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emissions)	Radiated	Pass

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. To address the product modifications, the following tests were updated: the Output Power and Power Spectral Density limits were re-calculated using the new antenna gain; and worst-case spot checks were performed for General Field Strength (Restricted Bands and Radiated Emissions).

6.2. Output Power Measurement

6.2.1. Test Limit

The maximum output power shall be less 1 Watt (30 dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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 FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.2.2. Test Procedure

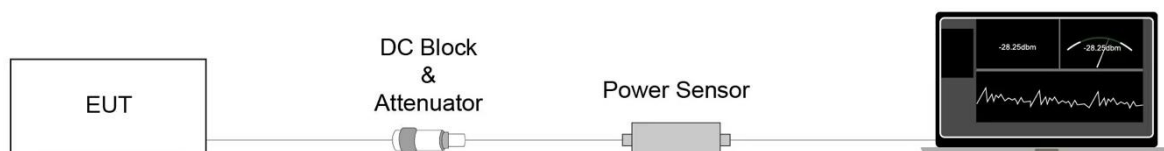
ANSI C63.10-2020 - Section 11.9.2.3.2

6.2.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Power Spectral Density Measurement

6.3.1. Test Limit

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

6.3.2. Test Procedure

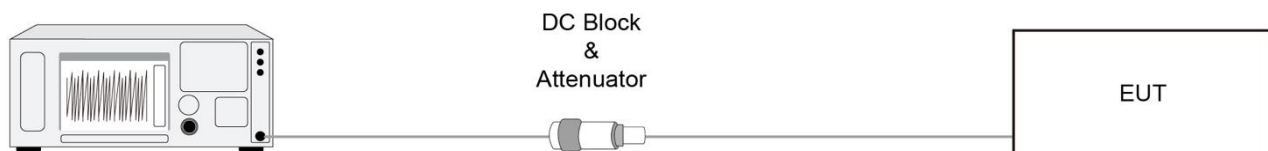
ANSI C63.10-2020 - Section 11.10.5

6.3.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal
2. Set instrument center frequency to DTS channel center frequency
3. Span > 1.5 times the OBW
4. RBW = 10 kHz
5. VBW $\geq 3 \times$ RBW
6. Detector = RMS
7. Ensure that the number of measurement points in the sweep $\geq 2 \times$ Span/RBW
8. Sweep time = Auto couple
9. Don't use sweep triggering; Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces
11. Use the peak marker function to determine the maximum amplitude level
12. If duty cycle < 98%, add $10\log(1/x)$, where x is the duty cycle measured in step 1, to the measured PSD to compute the average PSD during the actual transmission time. If duty cycle $\geq 98\%$, no need to add $10\log(1/x)$.
13. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

6.3.4. Test Setup

Spectrum Analyzer



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Radiated Spurious Emissions Measurement

6.4.1. 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

6.4.2. Test Procedure

ANSI C63.10-2020 - Section 11.11 & 11.12

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)

ANSI C63.10-2020 - Section 6.6 (Standard test method above 1 GHz)

6.4.3. 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
> 1000 MHz	1 MHz

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 1 MHz
3. RBW = as specified in Table 1
4. $VBW \geq 3 \times RBW$
5. Detector = CISPR quasi-peak
6. Sweep time = Auto couple
7. Trace was allowed to stabilize

Peak Measurements above 1 GHz

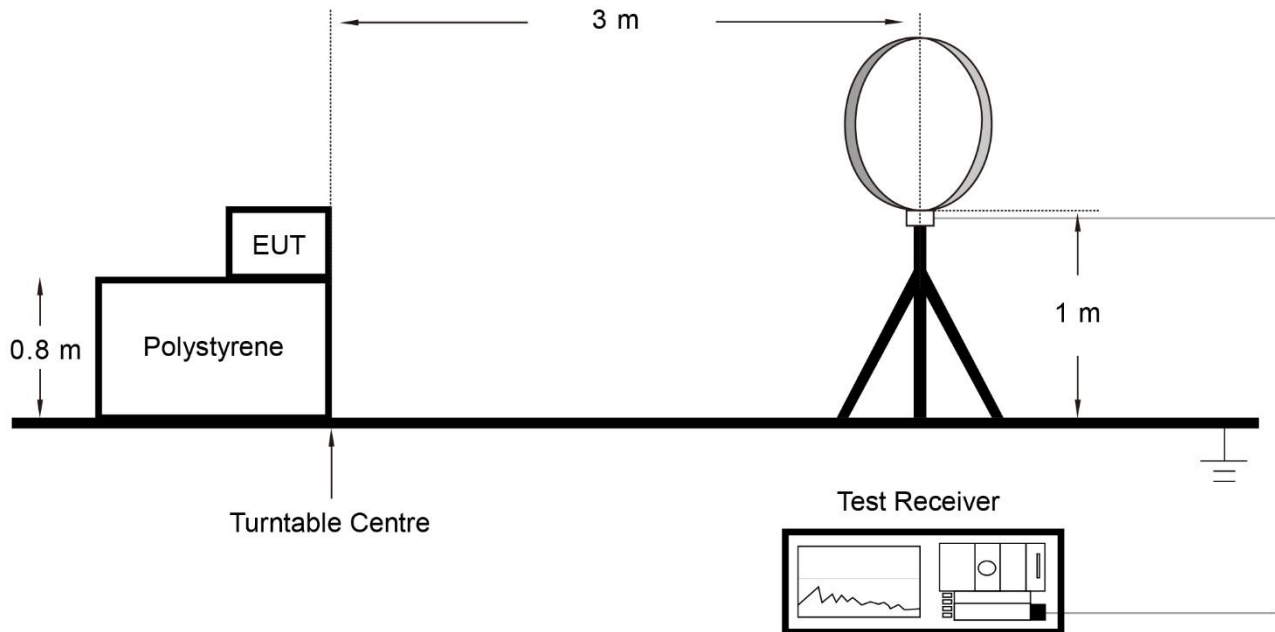
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1 GHz (Method VB)

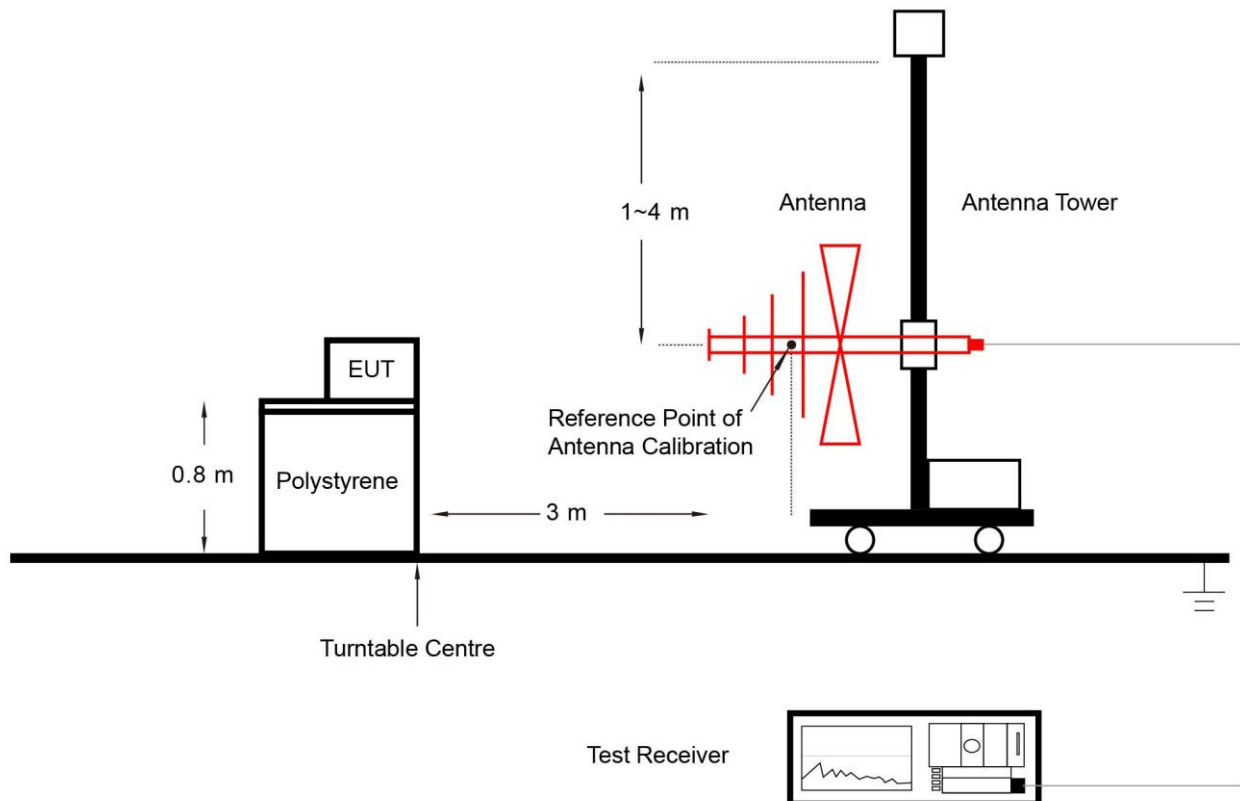
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup

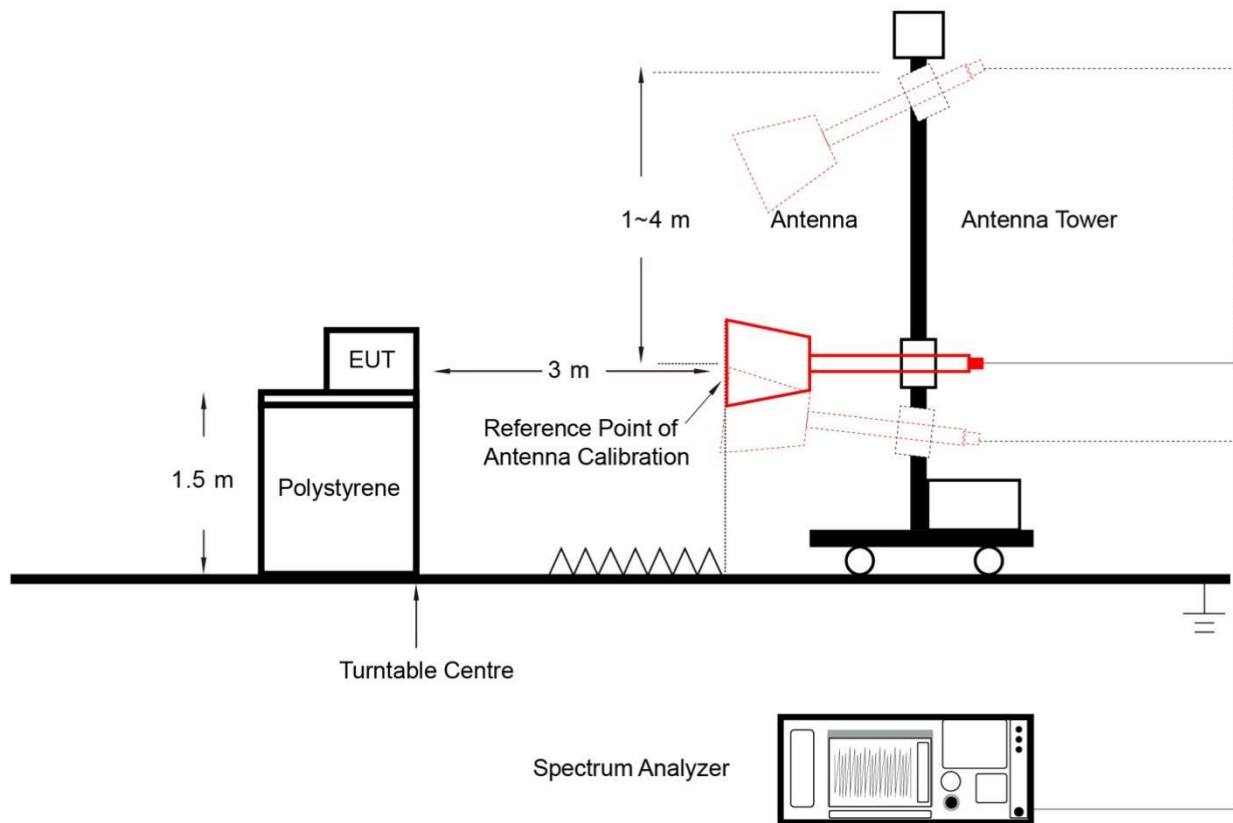
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Radiated Restricted Band Edge Measurement

6.5.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

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

6.5.2. Test Procedure

ANSI C63.10-2020 - Section 6.3 & 6.6 & 11.12

6.5.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

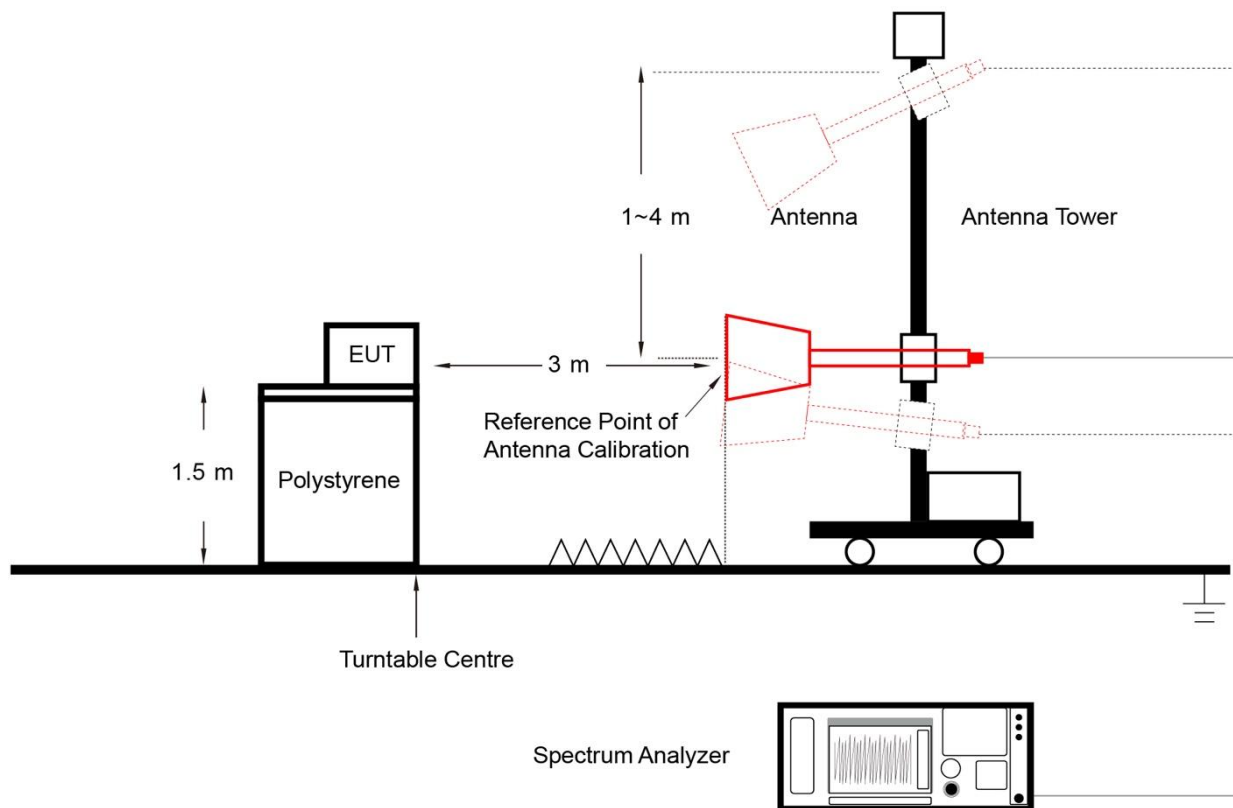
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

Appendix A - Test Result

A.1 Output Power Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-13		

Test Mode	Data Rate	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 3	Ant 2		
11b	1Mbps	01	2412	17.83	18.50	21.19	≤ 30.00
11b	1Mbps	06	2437	17.32	17.95	20.66	≤ 30.00
11b	1Mbps	11	2462	17.93	17.95	20.95	≤ 30.00
11g	6Mbps	01	2412	15.72	16.64	19.21	≤ 30.00
11g	6Mbps	06	2437	16.31	16.86	19.60	≤ 30.00
11g	6Mbps	11	2462	16.07	16.93	19.53	≤ 30.00
11n-HT20	MCS0	01	2412	15.68	16.69	19.22	≤ 30.00
11n-HT20	MCS0	06	2437	16.28	16.86	19.59	≤ 30.00
11n-HT20	MCS0	11	2462	16.07	16.83	19.48	≤ 30.00
11n-HT40	MCS0	03	2422	16.74	16.98	19.87	≤ 30.00
11n-HT40	MCS0	06	2437	16.16	16.93	19.57	≤ 30.00
11n-HT40	MCS0	09	2452	16.07	16.73	19.42	≤ 30.00
11ax-HE20	MCS0	01	2412	15.63	16.63	19.17	≤ 30.00
11ax-HE20	MCS0	06	2437	16.21	16.85	19.55	≤ 30.00
11ax-HE20	MCS0	11	2462	16.01	16.81	19.44	≤ 30.00
11ax-HE40	MCS0	03	2422	16.62	16.86	19.75	≤ 30.00
11ax-HE40	MCS0	06	2437	16.07	16.89	19.51	≤ 30.00
11ax-HE40	MCS0	09	2452	15.87	16.54	19.23	≤ 30.00
VHT20	MCS0	01	2412	15.63	16.64	19.17	≤ 30.00
VHT20	MCS0	06	2437	16.04	16.78	19.44	≤ 30.00
VHT20	MCS0	11	2462	16.05	16.84	19.47	≤ 30.00
VHT40	MCS0	03	2422	16.73	16.92	19.84	≤ 30.00
VHT40	MCS0	06	2437	16.23	16.91	19.59	≤ 30.00
VHT40	MCS0	09	2452	16.11	16.73	19.44	≤ 30.00

Note: Total Average Power (dBm) = $10 \times \log \{10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ (dBm).

Partial RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-10 ~ 2024-07-19		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	RU size/ index	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
					Ant 3	Ant 2		
11ax-HE20	MCS0	01	2412	RU26/0	6.59	5.89	9.26	≤ 30.00
				RU52/37	9.59	8.59	12.13	≤ 30.00
				RU106/53	12.60	11.65	15.16	≤ 30.00
		06	2437	RU26/4	6.75	6.36	9.57	≤ 30.00
				RU52/38	8.58	8.93	11.77	≤ 30.00
				RU106/53	12.11	12.09	15.11	≤ 30.00
		11	2462	RU26/8	6.69	5.36	9.09	≤ 30.00
				RU52/40	8.68	8.20	11.46	≤ 30.00
				RU106/54	11.77	11.25	14.53	≤ 30.00
ax-HE40	MCS0	03	2422	RU242/61	13.13	12.73	15.94	≤ 30.00
		06	2437	RU242/61	12.53	12.56	15.56	≤ 30.00
		09	2452	RU242/62	12.36	12.38	15.38	≤ 30.00

Note: Total Average Power (dBm) = $10 \times \log \{10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$ (dBm).

A.2 Power Spectral Density Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-04 ~ 2024-07-05		

Test Mode	Data Rate	Channel No.	Freq. (MHz)	PSD (dBm/10 kHz)		Duty Cycle (%)	Total PSD (dBm/10 kHz)	Limit (dBm/3 kHz)
				Ant 3	Ant 2			
11b	1Mbps	01	2412	-6.244	-5.020	98.14	-2.579	≤ 8.00
11b	1Mbps	06	2437	-5.472	-5.455	98.14	-2.453	≤ 8.00
11b	1Mbps	11	2462	-5.926	-5.223	98.14	-2.550	≤ 8.00
11g	6Mbps	01	2412	-13.561	-12.636	99.29	-10.064	≤ 8.00
11g	6Mbps	06	2437	-13.159	-12.532	99.29	-9.824	≤ 8.00
11g	6Mbps	11	2462	-13.167	-12.454	99.29	-9.786	≤ 8.00
11n-HT20	MCS0	01	2412	-12.137	-10.977	99.00	-8.508	≤ 8.00
11n-HT20	MCS0	06	2437	-12.324	-11.148	99.00	-8.686	≤ 8.00
11n-HT20	MCS0	11	2462	-12.248	-11.213	99.00	-8.689	≤ 8.00
11n-HT40	MCS0	03	2422	-15.094	-13.755	98.12	-11.363	≤ 8.00
11n-HT40	MCS0	06	2437	-15.052	-14.158	98.12	-11.572	≤ 8.00
11n-HT40	MCS0	09	2452	-15.193	-14.467	98.12	-11.805	≤ 8.00
11ax-HE20	MCS0	01	2412	-14.372	-13.500	99.73	-10.904	≤ 8.00
11ax-HE20	MCS0	06	2437	-14.085	-12.914	99.73	-10.450	≤ 8.00
11ax-HE20	MCS0	11	2462	-14.521	-13.261	99.73	-10.835	≤ 8.00
11ax-HE40	MCS0	03	2422	-16.249	-15.147	99.74	-12.653	≤ 8.00
11ax-HE40	MCS0	06	2437	-16.646	-16.219	99.74	-13.417	≤ 8.00
11ax-HE40	MCS0	09	2452	-16.719	-16.046	99.74	-13.359	≤ 8.00
VHT20	MCS0	01	2412	-12.530	-11.955	99.69	-9.223	≤ 8.00
VHT20	MCS0	06	2437	-12.872	-12.097	99.69	-9.457	≤ 8.00
VHT20	MCS0	11	2462	-13.404	-12.216	99.69	-9.759	≤ 8.00
VHT40	MCS0	03	2422	-15.766	-14.904	99.72	-12.303	≤ 8.00
VHT40	MCS0	06	2437	-16.058	-15.287	99.72	-12.645	≤ 8.00
VHT40	MCS0	09	2452	-15.796	-15.480	99.72	-12.625	≤ 8.00

Note: When EUT duty cycle ≥ 98%, Total PSD (dBm/10 kHz) = $10 \times \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/10 kHz).

Partial RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-09 ~ 2024-07-19		

Test Mode	Data Rate /MCS	Channel No.	Freq. (MHz)	RU size/ index	PSD (dBm/10 kHz)		Duty Cycle (%)	Total PSD (dBm/10 kHz)	Limit (dBm/3 kHz)
					Ant 3	Ant 2			
11ax-HE20	MCS0	01	2412	RU26/0	-14.138	-14.864	99.73	-11.476	≤ 8.00
				RU52/37	-14.068	-14.890	99.73	-11.449	≤ 8.00
				RU106/53	-13.648	-14.733	99.73	-11.146	≤ 8.00
		06	2437	RU26/4	-13.775	-14.066	99.73	-10.908	≤ 8.00
				RU52/38	-14.351	-13.650	99.73	-10.976	≤ 8.00
				RU106/53	-14.339	-14.377	99.73	-11.348	≤ 8.00
		11	2462	RU26/8	-13.402	-15.027	99.73	-11.129	≤ 8.00
				RU52/40	-13.861	-14.919	99.73	-11.348	≤ 8.00
				RU106/54	-14.176	-14.958	99.73	-11.539	≤ 8.00
11ax-HE40	MCS0	03	2422	RU242/61	-16.013	-16.382	99.74	-13.183	≤ 8.00
		06	2437	RU242/61	-17.134	-16.179	99.74	-13.620	≤ 8.00
		09	2452	RU242/62	-16.539	-16.390	99.74	-13.454	≤ 8.00

Note: When EUT duty cycle ≥ 98%, Total PSD (dBm/10 kHz) = $10 \times \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/10 kHz).

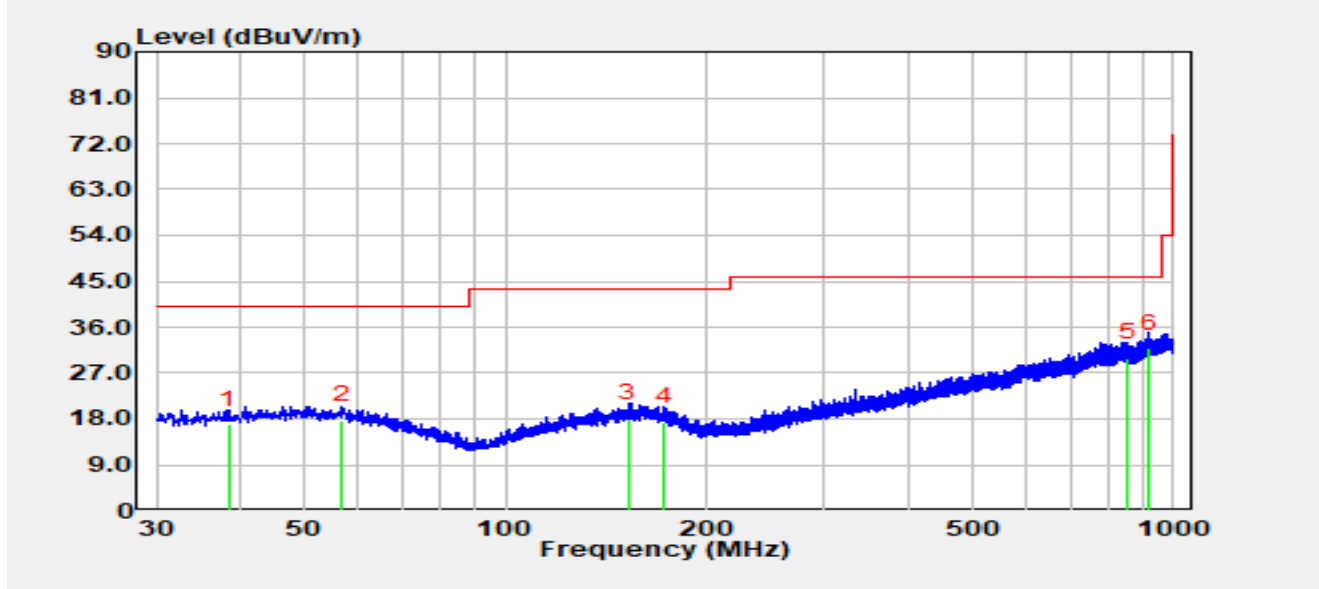
A.3 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Jerry Lu
Test Date	2025-10-29	Test Mode	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20 dB below limit line within 1-18 GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
06	9398.00	33.34	14.13	47.47	74.00	-26.53	Peak	Horizontal
	10929.70	31.58	17.75	49.33	74.00	-24.67	Peak	Horizontal
	18000.00	12.36	31.72	44.08	54.00	-9.92	Average	Horizontal
	18000.00	27.96	31.72	59.68	74.00	-14.32	Peak	Horizontal
	9454.10	32.85	13.92	46.77	74.00	-27.23	Peak	Vertical
	11523.00	31.95	18.08	50.03	74.00	-23.97	Peak	Vertical
	17972.80	13.32	29.91	43.23	54.00	-10.77	Average	Vertical
	17972.80	30.21	29.91	60.12	74.00	-13.88	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

The Result of Radiated Emission below 1 GHz:

Site	WZ-AC1	Test Date	2025-10-28
Temperature	24.4 °C	Humidity	40.3%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Dick Shen
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11b at 2412 MHz		

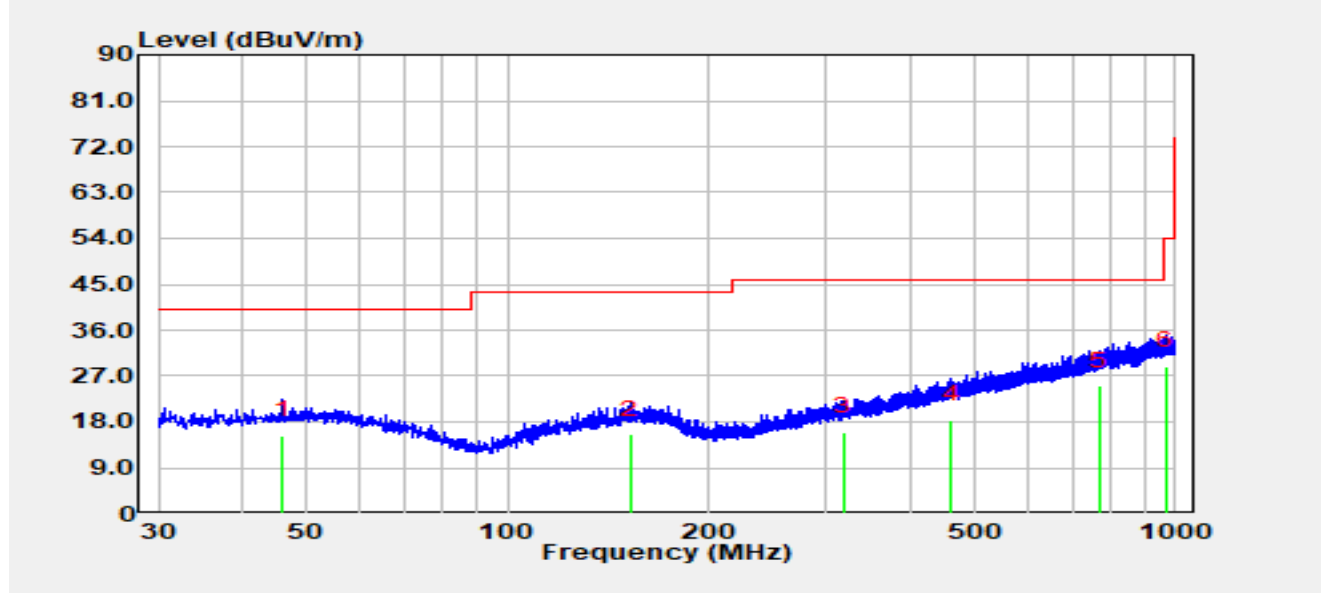


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		38.44	-0.80	17.64	16.84	-23.16	40.00	QP
2		56.77	-0.38	18.05	17.67	-22.33	40.00	QP
3		152.80	-0.14	18.16	18.02	-25.48	43.50	QP
4		173.17	-0.31	17.78	17.47	-26.03	43.50	QP
5		853.43	0.94	29.10	30.04	-15.96	46.00	QP
6	*	918.13	1.69	30.12	31.81	-14.19	46.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9 kHz to 30 MHz and 18 GHz to 25 GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site	WZ-AC1	Test Date	2025-10-28
Temperature	24.4 °C	Humidity	40.3%
Limit	FCC_Part 15.209_RSE (3 m)	Test Engineer	Dick Shen
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11b at 2412 MHz		



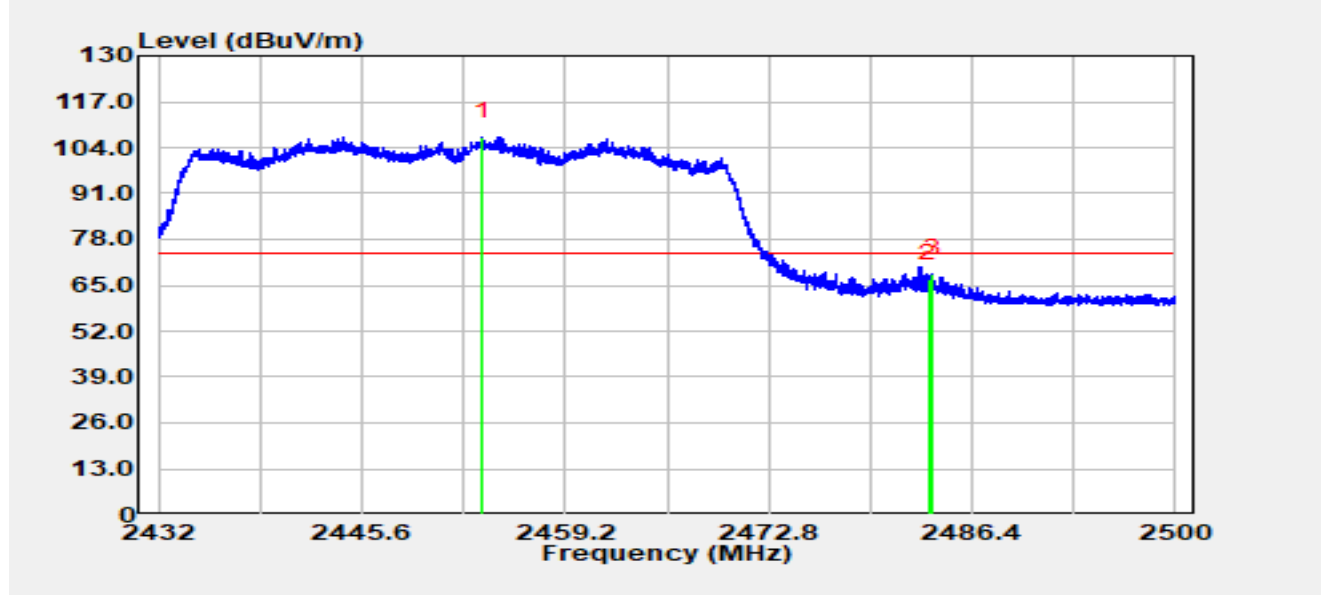
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		46.10	-2.86	18.26	15.40	-24.60	40.00	QP
2		152.32	-2.55	18.15	15.61	-27.89	43.50	QP
3		317.90	-3.25	19.29	16.04	-29.96	46.00	QP
4		460.87	-4.37	22.79	18.41	-27.59	46.00	QP
5	*	768.07	-3.58	28.55	24.96	-21.04	46.00	QP
6		967.12	-1.87	30.83	28.96	-25.04	54.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The amplitude of radiated emissions (frequency range from 9 kHz to 30 MHz and 18 GHz to 25 GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.4 Radiated Restricted Band Edge Test Result

Site	WZ-AC2	Test Date	2025-10-27
Temperature	25.2 °C	Humidity	43.3%
Limit	FCC_2.4G_RE (3 m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT40 at 2452 MHz		

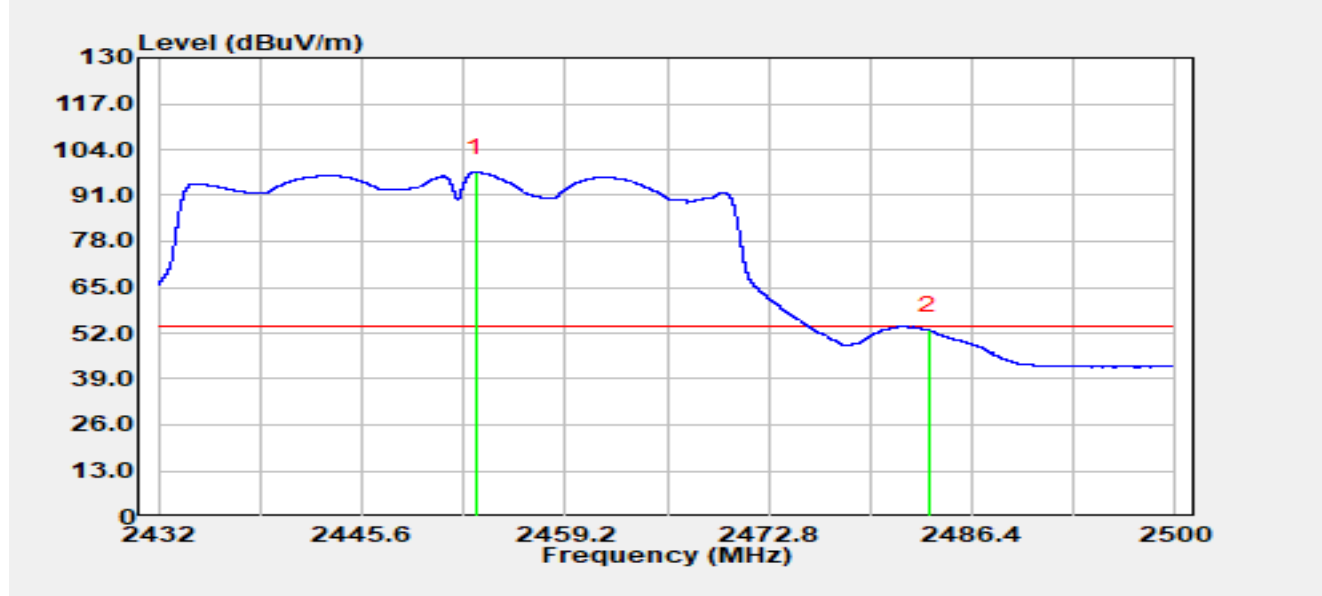


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2453.67	74.12	32.85	106.97	N/A	N/A	Peak
2		2483.50	34.10	32.77	66.86	-7.14	74.00	Peak
3	*	2483.76	35.54	32.77	68.31	-5.69	74.00	Peak

Notes:

1. " *" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2025-10-27
Temperature	25.2 °C	Humidity	43.3%
Limit	FCC_2.4G_RE (3 m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Horizontal
Test Mode	Transmit by 802.11n-HT40 at 2452 MHz		

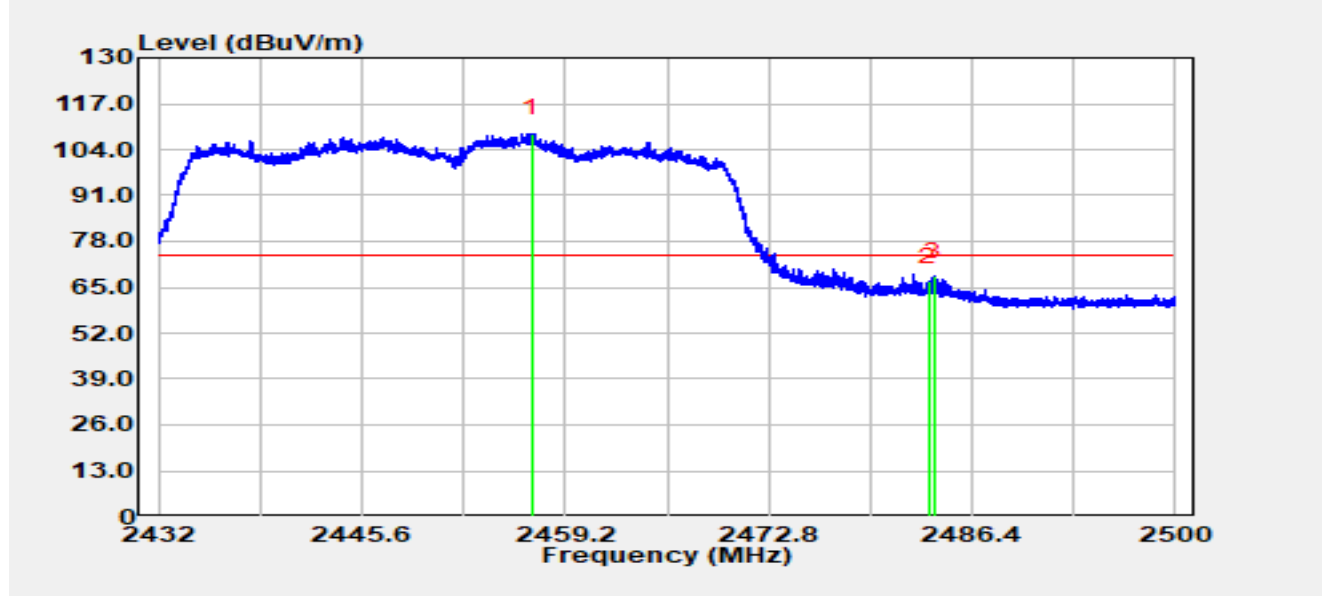


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2453.20	64.68	32.85	97.54	N/A	N/A	Average
2	*	2483.50	19.97	32.77	52.74	-1.26	54.00	Average

Notes:

1. " *" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2025-10-27
Temperature	25.2 °C	Humidity	43.3%
Limit	FCC_2.4G_RE (3 m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT40 at 2452 MHz		

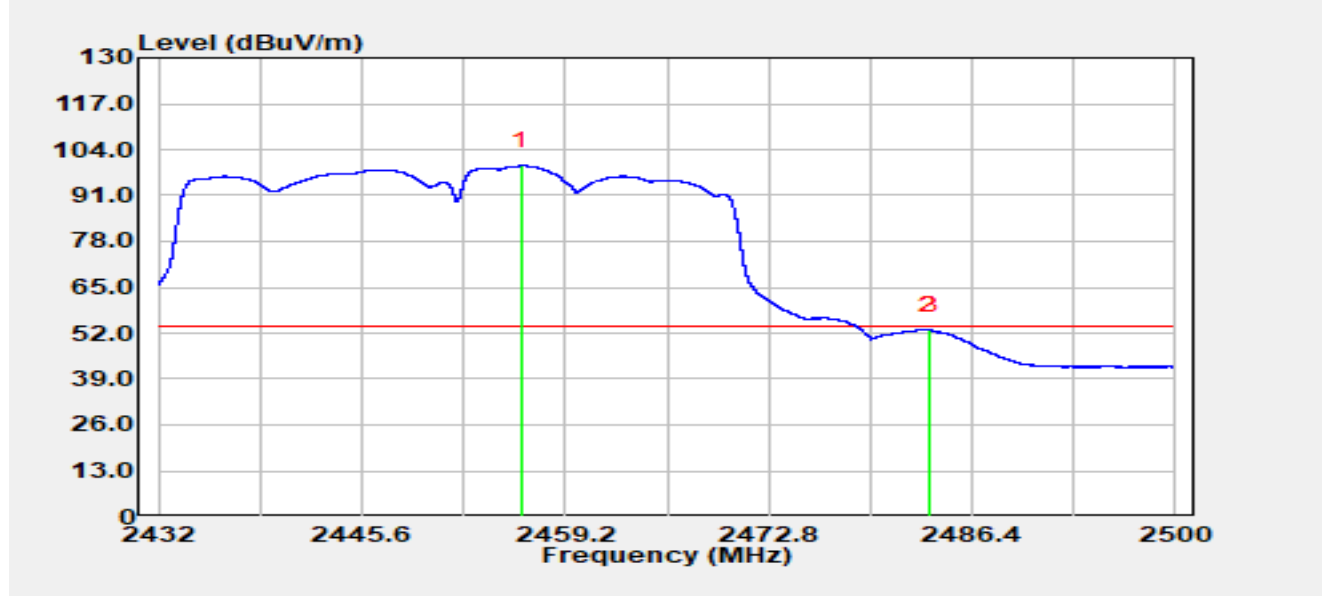


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2456.95	75.76	32.84	108.60	N/A	N/A	Peak
2		2483.50	33.79	32.77	66.56	-7.44	74.00	Peak
3	*	2483.82	35.24	32.77	68.01	-5.99	74.00	Peak

Notes:

1. " *" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2025-10-27
Temperature	25.2 °C	Humidity	43.3%
Limit	FCC_2.4G_RE (3 m)	Test Engineer	Lucas Wang
Test Voltage	By Battery	Polarity	Vertical
Test Mode	Transmit by 802.11n-HT40 at 2452 MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2456.23	66.53	32.84	99.38	N/A	N/A	Average
2		2483.50	19.97	32.77	52.74	-1.26	54.00	Average
3	*	2483.63	20.02	32.77	52.79	-1.21	54.00	Average

Notes:

1. " *" indicates the worst-case emission level observed during the measurement.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Appendix B - Test Setup Photograph

Refer to "R25S1042095-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1042095-UE" file.

_____ The End _____