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Report No.: R25S1068112-C202
Report Version: V01
Issue Date: 2025-12-29

RF MEASUREMENT REPORT

IC: 32876-WR3602BE
Applicant: TP-Link Systems Inc.
Product: BE3600 Wi-Fi 7 Portable Router
Model No.: TL-WR3602BE
Brand Name: tp-link
ISED Rule(s): RSS-247 Issue 4, RSS-GEN Issue 5
Result: Complies
Received Date: 2025-12-01
Test Date: 2025-12-05 ~ 2025-12-08

Reviewed By:

Yuri Li

Yuri Li

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.

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Revision History

Report No.	Version	Description	Issue Date	Note
R25S1068112-C202	V01	Initial Report	2025-12-29	Valid

Note: This report is conducted as a C2PC based on the original MRT report (Report No.: 2502TW0125-C2). In this C2PC, upgrade the standard to Issue 4, open weather frequency band: 5600-5650 MHz, change the 5G FEM pin to pin connection, 5G FEM has new alternative materials and satisfy pin to pin, but there will be no adjustment to the RF traces. After evaluation, this report only includes full testing of “Output Power”, worst-case evaluation of “Radiated Spurious Emissions” & “Radiated Restricted Band Edge” and weather frequency bands testing of DFS.

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1. General Information

1.1. Applicant

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.2. Manufacturer

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

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	BE3600 Wi-Fi 7 Portable Router
Model No.	TL-WR3602BE
EUT Identification No.	20251201Sample#05 (Conducted) 20251201Sample#08 (Radiated)
Wi-Fi Specification	8802.11a/b/g/n/ac/ax/be
Antenna Specification	Refer to clause 1.7
Power Type	AC/DC Adapter
Operating Environment	Indoor use
Accessory(ies)	
AC/DC Adapter	Model No.: ICP20-050-3000D Input: 100-240 V ~ 50/60 Hz, 0.6 A Output: 5.0 V = 3.0 A, 36.0 W
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	UNII-1: 5150 ~ 5250 MHz UNII-2A: 5250 ~ 5350 MHz UNII-2C: 5470 ~ 5725 MHz UNII-3: 5725 ~ 5850 MHz	
Type of Modulation	802.11a/n/ac: OFDM 802.11ax/be: OFDMA	
TPC Function	☒ Support	☐ Not Support
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1732 Mbps 802.11ax: up to 2402 Mbps 802.11be: up to 2882 Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80/ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

802.11ac-VHT160/ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Tx Paths	Nss	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
						For Power	For PSD
Dipole	2400 ~ 2500	2	1	1.87	4.90	1.87	4.90
	5150 ~ 5250	2	1	2.53	5.52	2.53	5.52
	5250 ~ 5350	2	1	2.64	5.63	2.64	5.63
	5470 ~ 5725	2	1	2.55	5.54	2.55	5.54
	5725 ~ 5850	2	1	2.62	5.62	2.62	5.62

Remark:

1. The device supports CDD Mode and Beamforming mode, details refer to the table as below.

2. CDD signals are correlated, the directional gain as follows,

When Nss=1, for power measurements: the max directional gain (each angle) = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$

For power spectral density (PSD) measurements: the max directional gain (each angle) = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$

3. Beamforming signals are correlated, the directional gain as follows, the max directional gain (each angle) = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$

4. The information as above is from the antenna report.

Test Mode	Tx Paths	CDD Mode	Beamforming Mode
802.11a/b/g/n	2	√	X
802.11ax/be	2	√	√

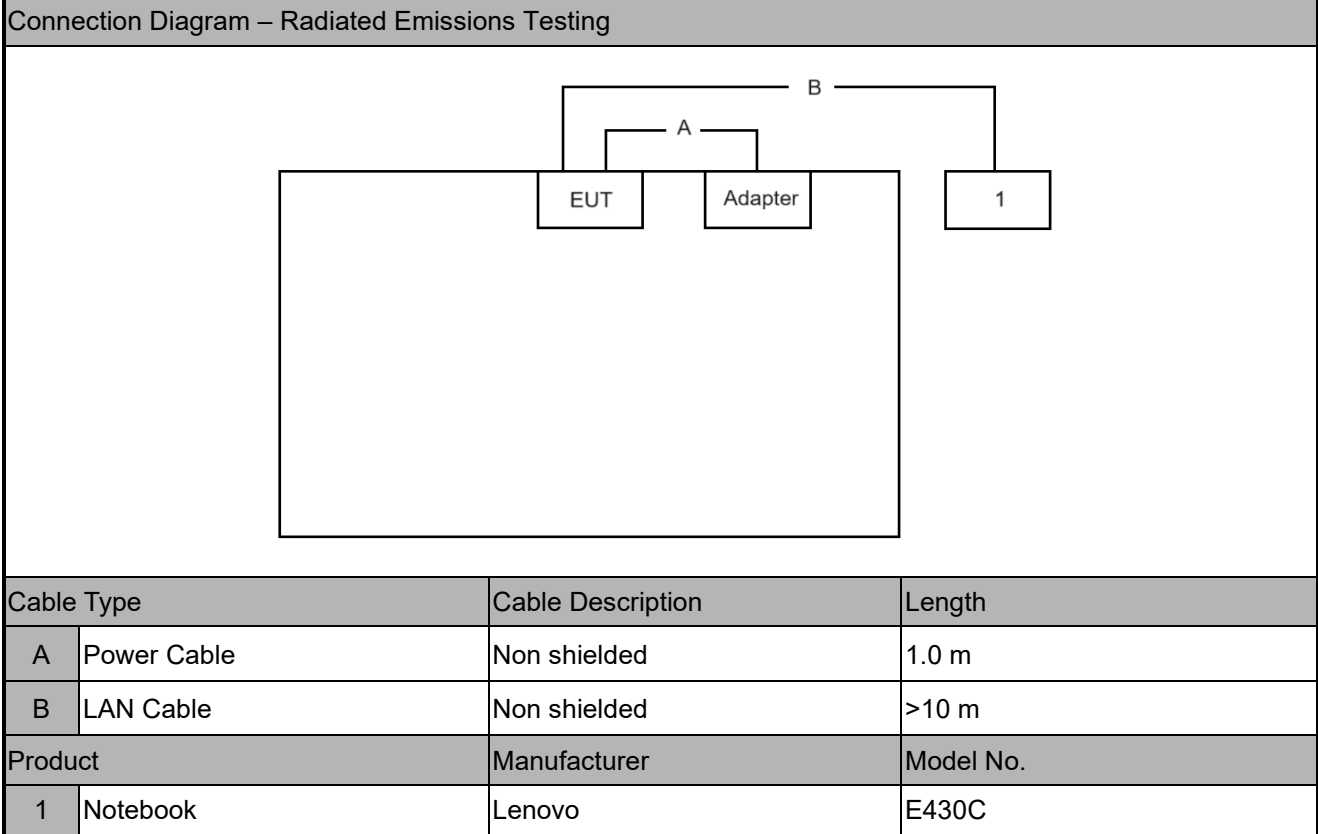
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a (6 Mbps)
Mode 2: Transmit by 802.11ac-VHT20 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80 (MCS0)
Mode 5: Transmit by 802.11ac-VHT160 (MCS0)
Mode 6: Transmit by 802.11ax-HE20 (MCS0)
Mode 7: Transmit by 802.11ax-HE40 (MCS0)
Mode 8: Transmit by 802.11ax-HE80 (MCS0)
Mode 9: Transmit by 802.11ax-HE160 (MCS0)
Mode 10: Transmit by 802.11be-EHT20 (MCS0)
Mode 11: Transmit by 802.11be-EHT40 (MCS0)
Mode 12: Transmit by 802.11be-EHT80 (MCS0)
Mode 13: Transmit by 802.11be-EHT160 (MCS0)
Note 1: 802.11n and 802.11ac have same modulation type and same power value declared by the manufacturer, and the data rate of 802.11n is covered by 802.11ac, so all tests were performed based on 802.11ac in this report. Note 2: All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate. Note 3: For beamforming operation, manufacturer automatically backs power down based on a $10\log(N_{\text{ANT}})$ factor based on CDD power. Therefore, only the CDD mode was evaluated in this report.

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 “accessMTool” and the version was “3_3_0_1”

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:

- RSS-247 Issue 4
- RSS-Gen Issue 5
- KDB 789033 D02 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. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2026-10-08	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
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
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2026-09-28	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2026-09-12	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11091	1 year	2026-06-02	WZ-SR5
RF Cable	UCwave	UCE500	MRTSUE07373	1 year	2026-07-20	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2026-04-26	WZ-SR5

Software	Version	Function
e3	230711	RE & CE
BenchVue Power Meter	2018.1	Power
Controller_MF 7802	1.02	RE Antenna & Turntable

4. Decision Rules and Measurement Uncertainty

4.1. 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.)

4.2. 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	

5. Test Result

5.1. Summary

RSS Section(s)	Test Description	Test Condition	Verdict
RSS-Gen [6.7], [7.3.1.3] [c]	99% Bandwidth	Conducted	NP
RSS-247 [7.3.4.2]	6 dB Bandwidth		NP
RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Output Power & EIRP		Pass
RSS-247 [7.3.2.2], [7.3.3.2]	Transmit Power Control		Note 5
RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Power Spectral Density		NP
RSS-247 [7.3.6]	Dynamic Frequency Selection (DFS)		Pass ^{Note 3}
RSS-Gen [8.11]	Frequency Stability		NP
RSS-247 [7.3.1.3], [7.3.2.3], [7.3.3.3], [7.3.4.4] RSS-Gen [8.9], [8.10]	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
RSS-Gen [8.8]	AC Conducted Emissions 150 kHz - 30 MHz	Line Conducted	NP

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. 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.
3. DFS report refer to R25S1068112-C203.
4. "NP" means not performed, please refer to the original approval.
5. As the EIRP is below 27 dBm, TPC is not applicable.

5.2. Output Power & EIRP Measurement

5.2.1. Test Limit

For the band 5.15-5.25 GHz, the maximum EIRP shall not exceed 200 mW (23.01 dBm) or $10 + 10\log(B)$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98 dBm) or $11 + 10\log(B)$, dBm, whichever power is less. The maximum EIRP shall not exceed 1 W (30 dBm) or $17 + 10\log(B)$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W (30 dBm). If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.2.2. Test Procedure

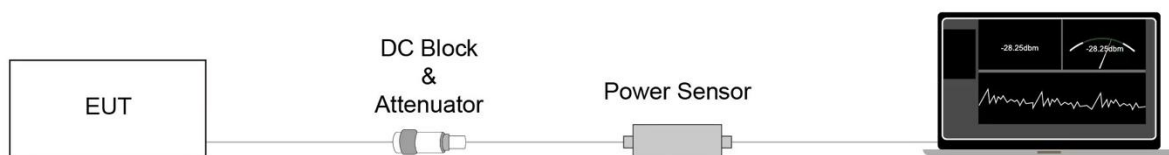
KDB 789033 D02 v02r01 - Section II - E.3.b (Method PM-G)

5.2.3. 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.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Radiated Spurious Emissions Measurement

5.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen Issue 5 must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [$\mu\text{A/m}$]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Unwanted Emission in 5250 MHz ~ 5350 MHz Band (RSS-247 Issue 4 section 7.3.1.3)

Any unwanted emissions that falls between the upper edge of the 26 dB bandwidth and 5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1% and 5% of the occupied bandwidth.

5.3.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - G

5.3.3. 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
> 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

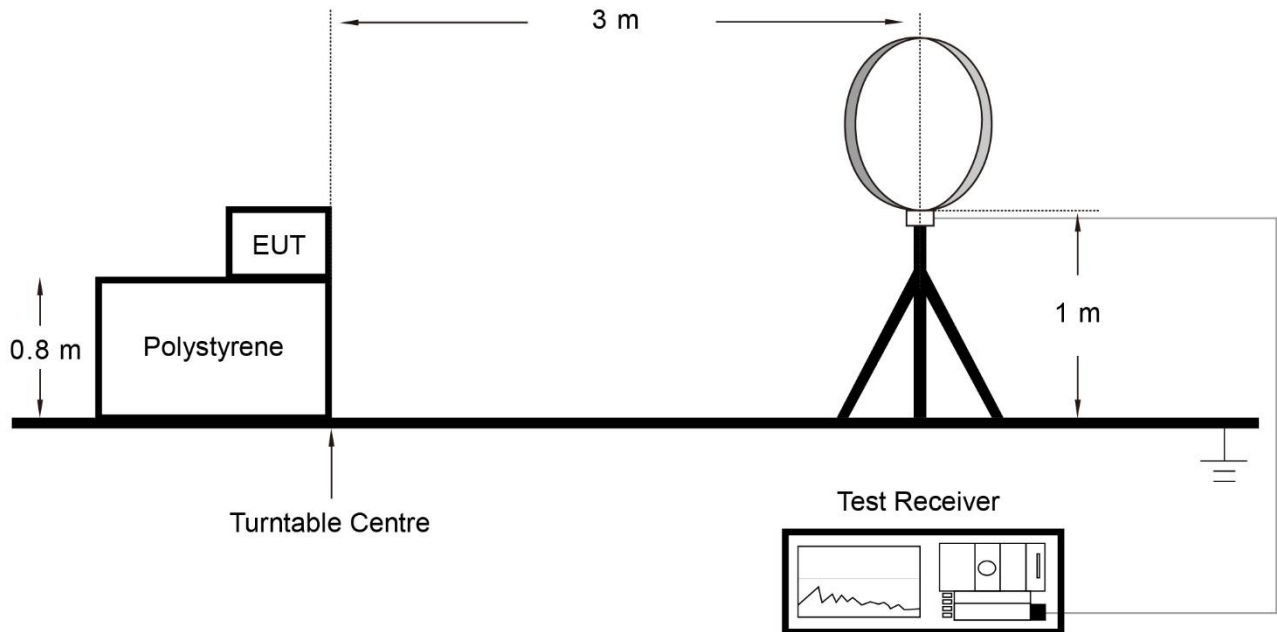
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1 GHz (Method VB)

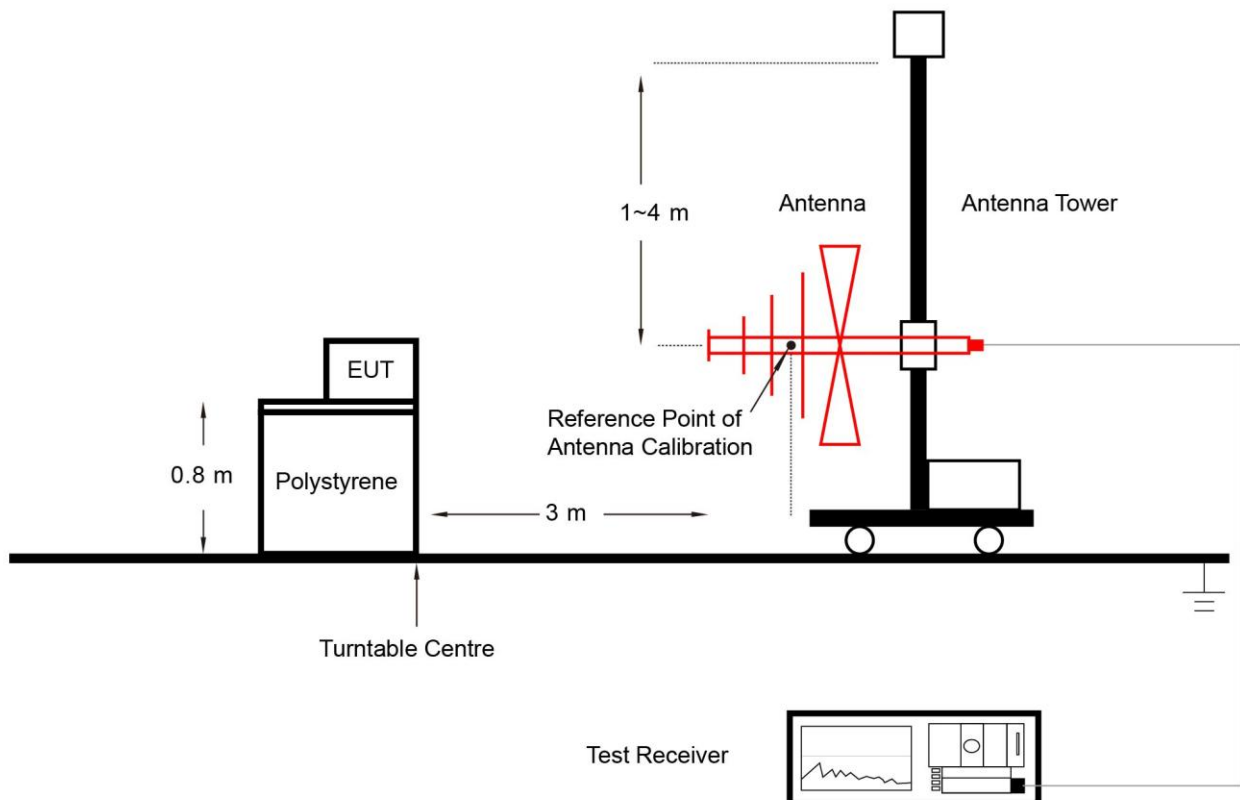
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. 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

5.3.4. Test Setup

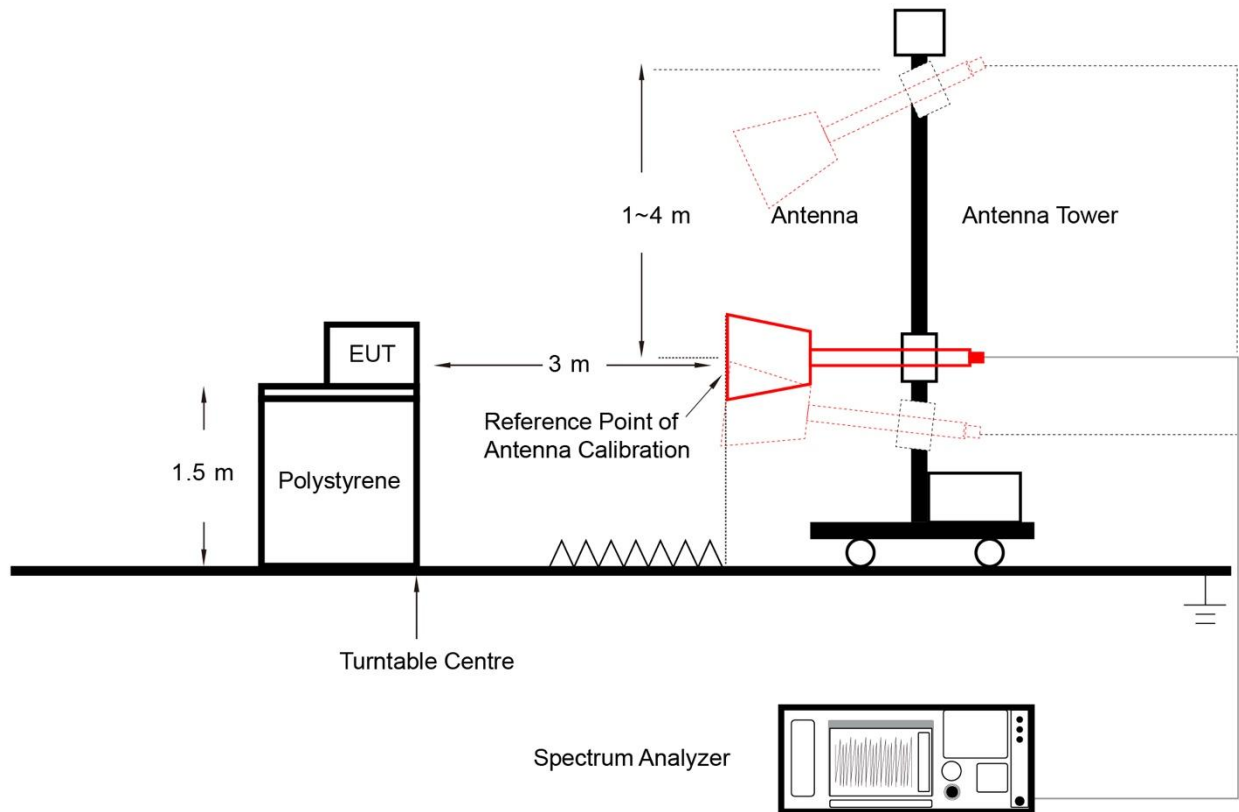
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz Test Setup:



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Radiated Restricted Band Edge Measurement

5.4.1. Test Limit

For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for license exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

For transmitters operating in the band 5150-5250 MHz:

All emissions outside the band 5150-5350 MHz shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the band 5250-5350 MHz:

All emissions outside the band 5250-5350 MHz shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the band 5470-5725 MHz:

Emissions outside the band 5470-5725 MHz shall not exceed an EIRP -27 dBm/MHz. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz EIRP at 5850 MHz instead of 5725 MHz.

For transmitters operating in the band 5725-5850 MHz:

shall comply with the following EIRP spectral density limits:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- 27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9		
Frequency [MHz]	Field Strength [μA/m]	Measured Distance [Meters]
0.009 - 0.490	6.37/F (kHz)	300
0.490 - 1.705	63.7/F (kHz)	30
1.705 - 30	0.08	30
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

5.4.2. Test Procedure

KDB 789033 D02 v02r01 - Section II - G

5.4.3. Test Setting

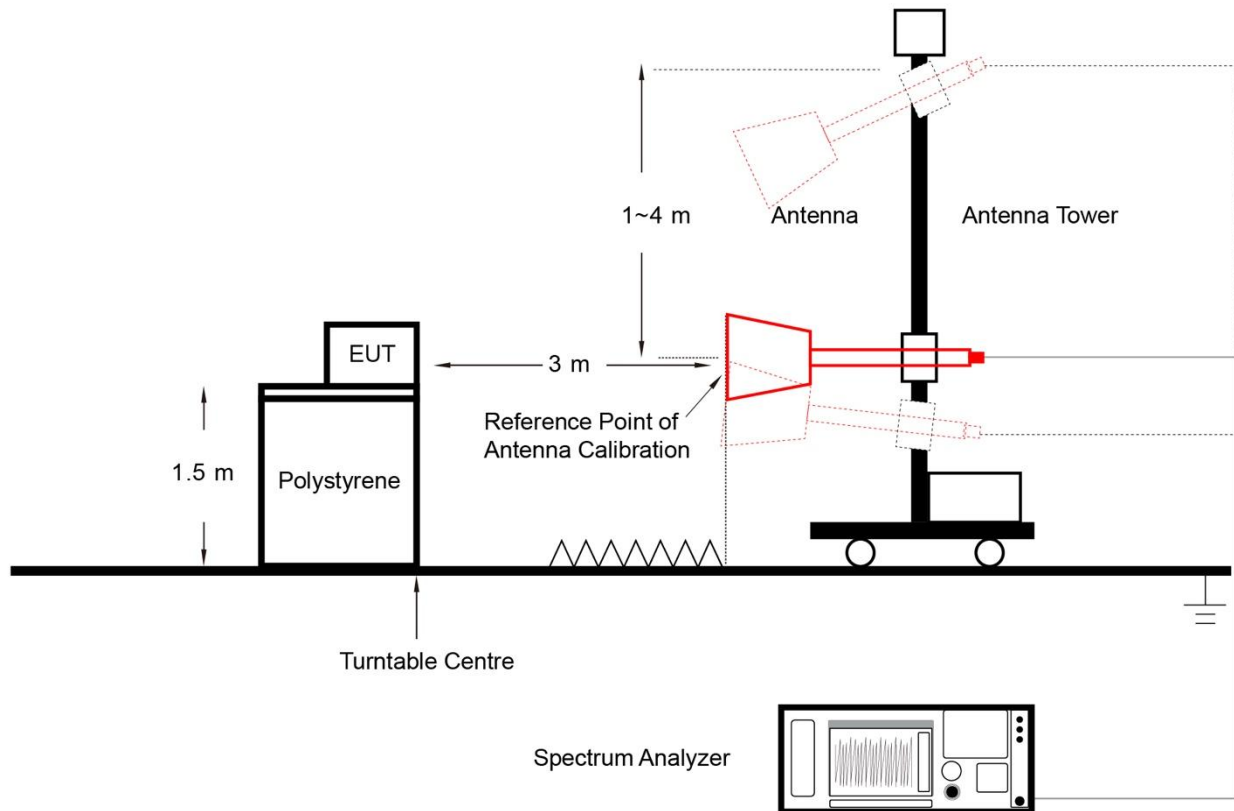
Peak Measurements above 1 GHz

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

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

Appendix A - Test Result

A.1 Output Power & EIRP Test Result

Test Site	WZ-SR5	Test Engineer	Herman Liu
Test Date	2025-12-05		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total AV Power (dBm)	AV Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11a	6 Mbps	36	5180	12.10	13.56	15.90	--	18.43	≤ 22.21
11a	6 Mbps	44	5220	12.24	13.62	15.99	--	18.52	≤ 22.24
11a	6 Mbps	48	5240	12.19	13.48	15.89	--	18.42	≤ 22.22
11a	6 Mbps	52	5260	19.36	19.64	22.51	≤ 23.22	25.15	≤ 29.22
11a	6 Mbps	60	5300	19.17	19.21	22.20	≤ 23.21	24.84	≤ 29.21
11a	6 Mbps	64	5320	18.89	18.76	21.84	≤ 23.22	24.48	≤ 29.22
11a	6 Mbps	100	5500	18.71	18.59	21.66	≤ 23.23	24.21	≤ 29.23
11a	6 Mbps	116	5580	18.53	18.87	21.71	≤ 23.23	24.26	≤ 29.23
11a	6 Mbps	140	5700	16.45	16.74	19.61	≤ 23.22	22.16	≤ 29.22
11a	6 Mbps	144	5720	17.76	18.29	21.04	≤ 22.25	23.59	≤ 28.25
11a	6 Mbps	149	5745	24.72	25.23	27.99	≤ 30.00	--	--
11a	6 Mbps	157	5785	24.76	25.21	28.00	≤ 30.00	--	--
11a	6 Mbps	165	5825	24.79	25.20	28.01	≤ 30.00	--	--
11ac-VHT20	MCS0	36	5180	13.39	13.74	16.58	--	19.11	≤ 22.51
11ac-VHT20	MCS0	44	5220	13.22	13.74	16.50	--	19.03	≤ 22.60
11ac-VHT20	MCS0	48	5240	13.19	13.67	16.45	--	18.98	≤ 22.57
11ac-VHT20	MCS0	52	5260	19.56	19.84	22.71	≤ 23.50	25.35	≤ 29.50
11ac-VHT20	MCS0	60	5300	19.37	19.49	22.44	≤ 23.52	25.08	≤ 29.52
11ac-VHT20	MCS0	64	5320	19.45	19.52	22.50	≤ 23.51	25.14	≤ 29.51
11ac-VHT20	MCS0	100	5500	19.56	19.63	22.61	≤ 23.51	25.16	≤ 29.51
11ac-VHT20	MCS0	116	5580	19.89	20.23	23.07	≤ 23.52	25.62	≤ 29.52
11ac-VHT20	MCS0	140	5700	16.88	17.16	20.03	≤ 23.53	22.58	≤ 29.53
11ac-VHT20	MCS0	144	5720	18.95	19.37	22.18	≤ 22.44	24.73	≤ 28.44
11ac-VHT20	MCS0	149	5745	24.71	25.39	28.07	≤ 30.00	--	--
11ac-VHT20	MCS0	157	5785	24.89	25.58	28.26	≤ 30.00	--	--
11ac-VHT20	MCS0	165	5825	24.79	25.23	28.03	≤ 30.00	--	--

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total AV Power (dBm)	AV Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11ac-VHT40	MCS0	38	5190	15.89	16.63	19.29	--	21.82	≤ 23.01
11ac-VHT40	MCS0	46	5230	15.93	16.58	19.28	--	21.81	≤ 23.01
11ac-VHT40	MCS0	54	5270	19.79	20.15	22.98	≤ 23.98	25.62	≤ 30.00
11ac-VHT40	MCS0	62	5310	18.35	18.22	21.30	≤ 23.98	23.94	≤ 30.00
11ac-VHT40	MCS0	102	5510	16.92	16.84	19.89	≤ 23.98	22.44	≤ 30.00
11ac-VHT40	MCS0	110	5550	20.24	19.64	22.96	≤ 23.98	25.51	≤ 30.00
11ac-VHT40	MCS0	134	5670	20.02	19.53	22.79	≤ 23.98	25.34	≤ 30.00
11ac-VHT40	MCS0	142	5710	20.31	19.72	23.04	≤ 23.98	25.59	≤ 30.00
11ac-VHT40	MCS0	151	5755	22.95	23.80	26.41	≤ 30.00	--	--
11ac-VHT40	MCS0	159	5795	23.85	24.67	27.29	≤ 30.00	--	--
11ac-VHT80	MCS0	42	5210	16.71	17.32	20.04	--	22.57	≤ 23.01
11ac-VHT80	MCS0	58	5290	18.42	18.93	21.69	≤ 23.98	24.33	≤ 30.00
11ac-VHT80	MCS0	106	5530	16.82	17.37	20.11	≤ 23.98	22.66	≤ 30.00
11ac-VHT80	MCS0	122	5610	18.96	19.04	22.01	≤ 23.98	24.56	≤ 30.00
11ac-VHT80	MCS0	138	5690	19.72	19.23	22.49	≤ 23.98	25.04	≤ 30.00
11ac-VHT80	MCS0	155	5775	21.53	21.55	24.55	≤ 30.00	--	--
11ac-VHT160	MCS0	50	5250	16.54	17.42	20.01	--	22.65	≤ 23.01
11ac-VHT160	MCS0	114	5570	16.51	16.67	19.60	≤ 23.98	22.15	≤ 30.00
11ax-HE20	MCS0	36	5180	13.37	14.04	16.73	--	19.26	≤ 22.79
11ax-HE20	MCS0	44	5220	13.45	13.79	16.63	--	19.16	≤ 22.86
11ax-HE20	MCS0	48	5240	13.28	13.69	16.50	--	19.03	≤ 22.84
11ax-HE20	MCS0	52	5260	19.72	19.94	22.84	≤ 23.80	25.48	≤ 29.80
11ax-HE20	MCS0	60	5300	19.83	20.07	22.96	≤ 23.80	25.60	≤ 29.80
11ax-HE20	MCS0	64	5320	19.79	20.12	22.97	≤ 23.79	25.61	≤ 29.79
11ax-HE20	MCS0	100	5500	19.65	19.85	22.76	≤ 23.80	25.31	≤ 29.80
11ax-HE20	MCS0	116	5580	19.83	19.40	22.63	≤ 23.81	25.18	≤ 29.81
11ax-HE20	MCS0	140	5700	16.04	15.28	18.69	≤ 23.80	21.24	≤ 29.80
11ax-HE20	MCS0	144	5720	18.73	18.08	21.43	≤ 22.63	23.98	≤ 28.63
11ax-HE20	MCS0	149	5745	24.22	24.56	27.40	≤ 30.00	--	--
11ax-HE20	MCS0	157	5785	24.45	24.79	27.63	≤ 30.00	--	--
11ax-HE20	MCS0	165	5825	24.39	24.63	27.52	≤ 30.00	--	--

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total AV Power (dBm)	AV Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11ax-HE40	MCS0	38	5190	15.87	16.75	19.34	--	21.87	≤ 23.01
11ax-HE40	MCS0	46	5230	15.43	16.71	19.13	--	21.66	≤ 23.01
11ax-HE40	MCS0	54	5270	20.03	20.12	23.09	≤ 23.98	25.73	≤ 30.00
11ax-HE40	MCS0	62	5310	18.82	18.69	21.77	≤ 23.98	24.41	≤ 30.00
11ax-HE40	MCS0	102	5510	17.26	17.31	20.30	≤ 23.98	22.85	≤ 30.00
11ax-HE40	MCS0	110	5550	20.05	19.75	22.91	≤ 23.98	25.46	≤ 30.00
11ax-HE40	MCS0	134	5670	19.43	19.10	22.28	≤ 23.98	24.83	≤ 30.00
11ax-HE40	MCS0	142	5710	20.03	19.41	22.74	≤ 23.98	25.29	≤ 30.00
11ax-HE40	MCS0	151	5755	22.28	23.04	25.69	≤ 30.00	--	--
11ax-HE40	MCS0	159	5795	23.91	24.88	27.43	≤ 30.00	--	--
11ax-HE80	MCS0	42	5210	16.86	17.31	20.10	--	22.63	≤ 23.01
11ax-HE80	MCS0	58	5290	17.63	17.82	20.74	≤ 23.98	23.38	≤ 30.00
11ax-HE80	MCS0	106	5530	15.27	15.93	18.62	≤ 23.98	21.17	≤ 30.00
11ax-HE80	MCS0	122	5610	19.92	19.19	22.58	≤ 23.98	25.13	≤ 30.00
11ax-HE80	MCS0	138	5690	19.86	19.31	22.60	≤ 23.98	25.15	≤ 30.00
11ax-HE80	MCS0	155	5775	20.71	20.68	23.71	≤ 30.00	--	--
11ax-HE160	MCS0	50	5250	16.45	17.21	19.86	--	22.50	≤ 23.01
11ax-HE160	MCS0	114	5570	16.59	17.48	20.07	≤ 23.98	22.62	≤ 30.00
11be-EHT20	MCS0	36	5180	13.03	14.09	16.60	--	19.13	≤ 22.79
11be-EHT20	MCS0	44	5220	13.12	14.15	16.68	--	19.21	≤ 22.83
11be-EHT20	MCS0	48	5240	13.23	13.68	16.47	--	19.00	≤ 22.85
11be-EHT20	MCS0	52	5260	19.85	20.06	22.97	≤ 23.82	25.61	≤ 29.82
11be-EHT20	MCS0	60	5300	19.97	20.12	23.06	≤ 23.80	25.70	≤ 29.80
11be-EHT20	MCS0	64	5320	19.88	20.03	22.97	≤ 23.79	25.61	≤ 29.79
11be-EHT20	MCS0	100	5500	18.84	18.82	21.84	≤ 23.81	24.39	≤ 29.81
11be-EHT20	MCS0	116	5580	19.83	19.91	22.88	≤ 23.82	25.43	≤ 29.82
11be-EHT20	MCS0	140	5700	16.02	16.10	19.07	≤ 23.81	21.62	≤ 29.81
11be-EHT20	MCS0	144	5720	18.61	18.34	21.49	≤ 22.62	24.04	≤ 28.62
11be-EHT20	MCS0	149	5745	24.52	24.65	27.60	≤ 30.00	--	--
11be-EHT20	MCS0	157	5785	24.11	24.07	27.10	≤ 30.00	--	--
11be-EHT20	MCS0	165	5825	24.12	23.98	27.06	≤ 30.00	--	--

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Average Power (dBm)		Total AV Power (dBm)	AV Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11be-EHT40	MCS0	38	5190	15.96	16.85	19.44	--	21.97	≤ 23.01
11be-EHT40	MCS0	46	5230	15.91	16.73	19.35	--	21.88	≤ 23.01
11be-EHT40	MCS0	54	5270	20.12	20.42	23.28	≤ 23.98	25.92	≤ 30.00
11be-EHT40	MCS0	62	5310	17.91	18.19	21.06	≤ 23.98	23.70	≤ 30.00
11be-EHT40	MCS0	102	5510	17.21	17.32	20.28	≤ 23.98	22.83	≤ 30.00
11be-EHT40	MCS0	110	5550	20.27	20.51	23.40	≤ 23.98	25.95	≤ 30.00
11be-EHT40	MCS0	134	5670	18.93	18.61	21.78	≤ 23.98	24.33	≤ 30.00
11be-EHT40	MCS0	142	5710	20.33	20.49	23.42	≤ 23.98	25.97	≤ 30.00
11be-EHT40	MCS0	151	5755	23.72	24.14	26.95	≤ 30.00	--	--
11be-EHT40	MCS0	159	5795	24.78	25.38	28.10	≤ 30.00	--	--
11be-EHT80	MCS0	42	5210	16.89	17.50	20.22	--	22.75	≤ 23.01
11be-EHT80	MCS0	58	5290	17.35	18.04	20.72	≤ 23.98	23.36	≤ 30.00
11be-EHT80	MCS0	106	5530	15.37	15.85	18.63	≤ 23.98	21.18	≤ 30.00
11be-EHT80	MCS0	122	5610	19.89	19.41	22.67	≤ 23.98	25.22	≤ 30.00
11be-EHT80	MCS0	138	5690	19.74	19.53	22.65	≤ 23.98	25.20	≤ 30.00
11be-EHT80	MCS0	155	5775	20.43	19.96	23.21	≤ 30.00	--	--
11be-EHT160	MCS0	50	5250	16.39	17.14	19.79	--	22.43	≤ 23.01
11be-EHT160	MCS0	114	5570	16.54	17.18	19.88	≤ 30.00	22.43	≤ 30.00

Note 1: Total Average Power (dBm) = $10 \times \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: For Band-Crossing channel, Average Power Limit = 23.98 dBm or $11 + 10 \times \log_{10} \text{EBW}_{2C}$, which is less.

Note 3: EIRP (dBm) = Total Average Power (dBm) + Directional Gain for Power (dBi).

A.2 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-12-05	Test Mode	802.11a - Channel 157
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10045.70	33.21	14.21	47.42	68.20	-20.78	Peak	Horizontal
	12274.40	31.71	18.52	50.23	74.00	-23.77	Peak	Horizontal
*	16963.00	30.21	22.30	52.51	68.20	-15.69	Peak	Horizontal
	18000.00	12.95	31.72	44.67	54.00	-9.33	Average	Horizontal
	18000.00	29.15	31.72	60.87	74.00	-13.13	Peak	Horizontal
*	10088.20	33.00	14.28	47.28	68.20	-20.92	Peak	Vertical
	11353.00	32.16	17.56	49.72	74.00	-24.28	Peak	Vertical
*	16883.10	30.29	22.51	52.80	68.20	-15.40	Peak	Vertical
	17960.90	13.48	30.60	44.08	54.00	-9.92	Average	Vertical
	17960.90	29.87	30.60	60.47	74.00	-13.53	Peak	Vertical

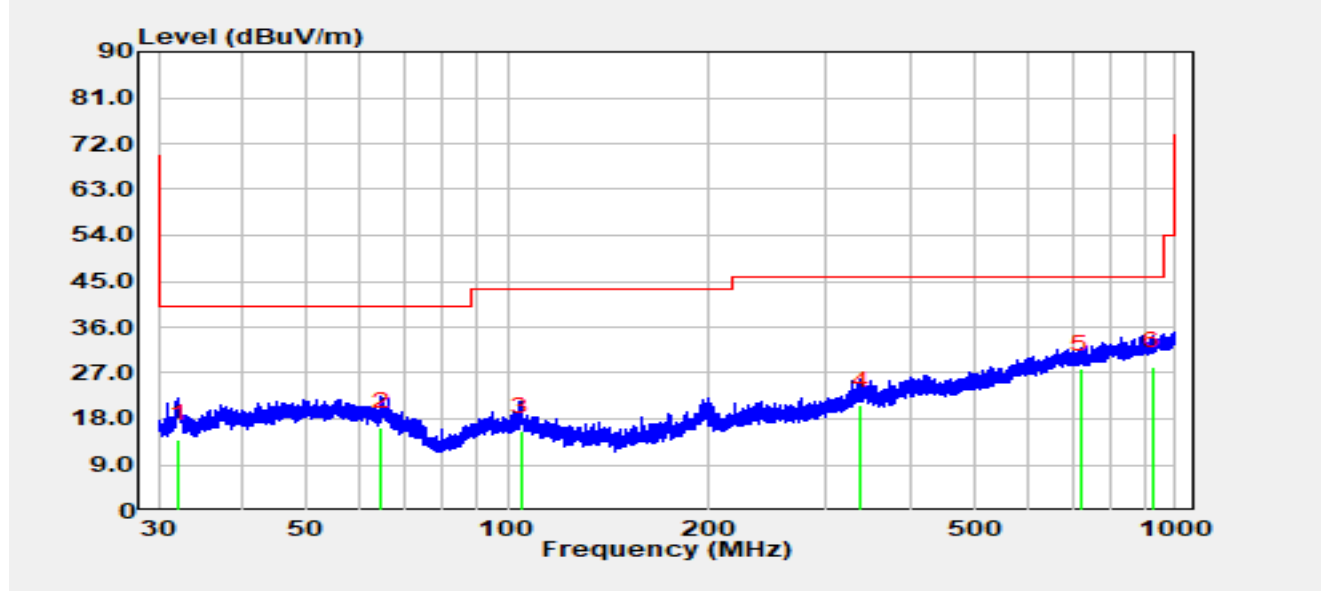
Note 1: “*” is not in restricted band.

Note 2: 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-AC2	Test Date	2025-12-08
Temperature	22.0 °C	Humidity	31.9%
Limit	RSS-Gen_RE (3m)	Test Engineer	Dick Shen
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmiy by 802.11a at 5785 MHz		

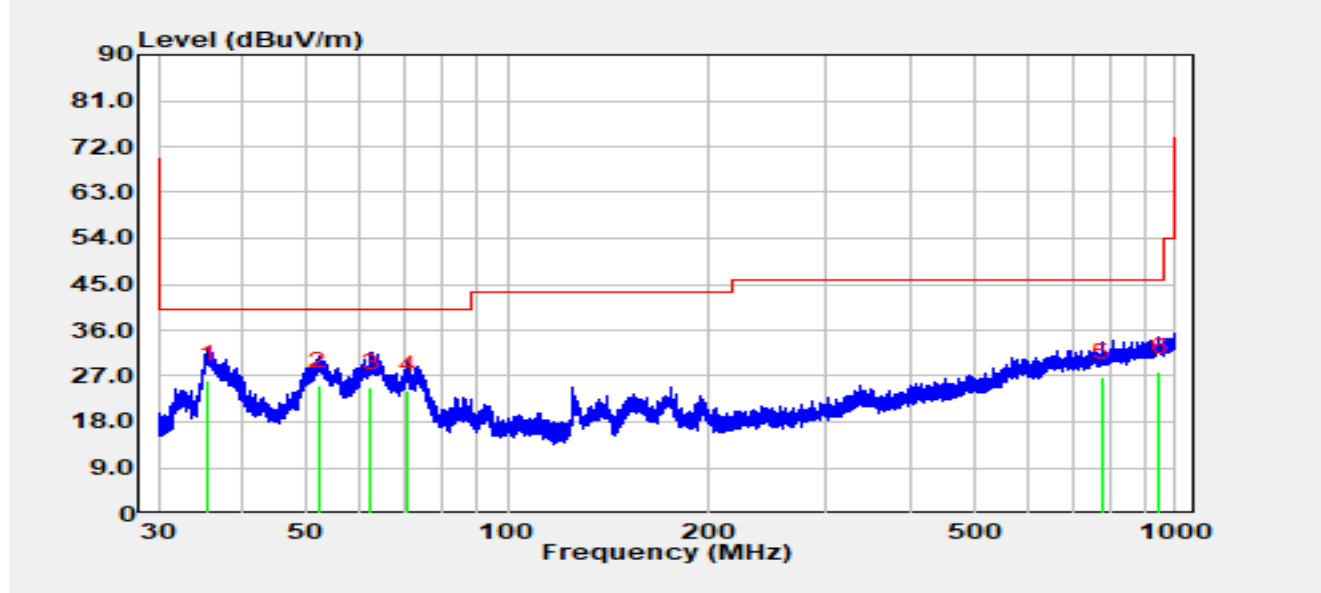


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		32.25	-2.87	16.87	14.00	-26.00	40.00	QP
2		64.77	-1.98	18.32	16.34	-23.66	40.00	QP
3		104.61	-3.35	18.87	15.52	-27.98	43.50	QP
4		338.52	-1.82	22.52	20.70	-25.30	46.00	QP
5		722.23	-1.27	29.06	27.79	-18.21	46.00	QP
6	*	921.87	-3.44	31.74	28.30	-17.70	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 the radiated emissions in the frequency range from 9 kHz to 30 MHz and 18 GHz to 40 GHz is close to the ambient noise level, and all emissions are at least 20 dB below the applicable limit. Therefore, the data is not presented in this report.

Site	WZ-AC2	Test Date	2025-12-08
Temperature	22.0 °C	Humidity	31.9%
Limit	RSS-Gen_RE (3m)	Test Engineer	Dick Shen
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmiy by 802.11a at 5785 MHz		



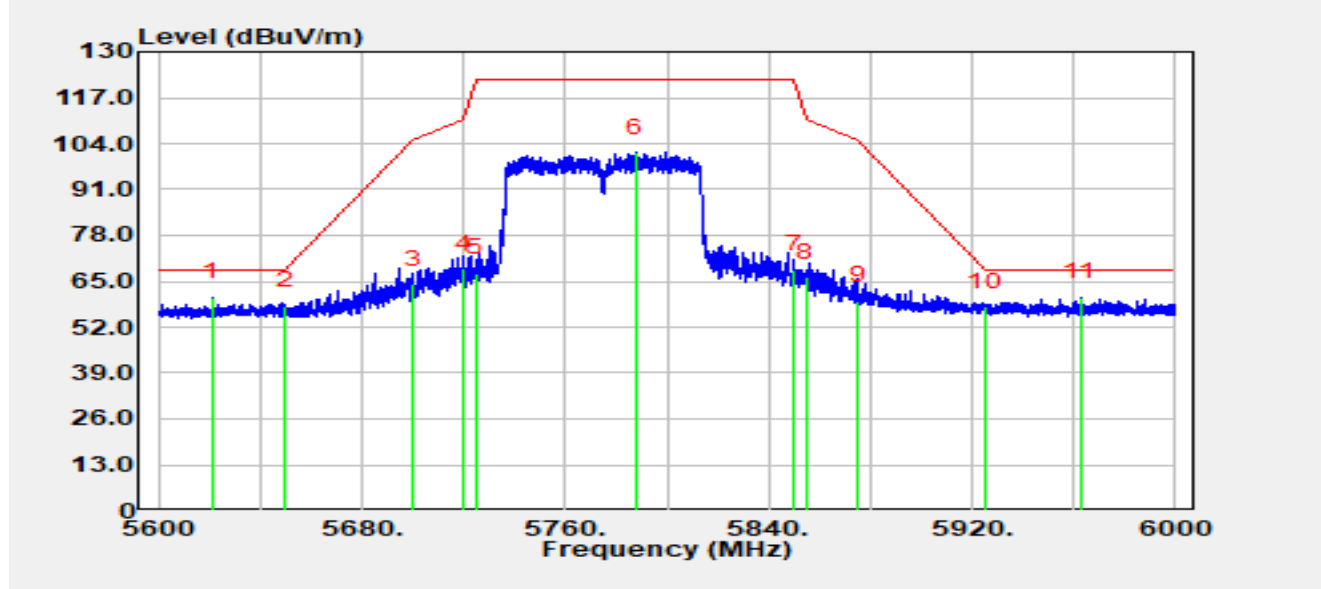
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	35.57	8.45	17.87	26.32	-13.68	40.00	QP
2		52.10	4.57	20.48	25.04	-14.96	40.00	QP
3		62.43	5.69	18.94	24.63	-15.37	40.00	QP
4		70.76	7.85	16.29	24.14	-15.86	40.00	QP
5		776.88	-3.47	30.22	26.75	-19.25	46.00	QP
6		945.44	-4.32	32.07	27.75	-18.25	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 the radiated emissions in the frequency range from 9 kHz to 30 MHz and 18 GHz to 40 GHz is close to the ambient noise level, and all emissions are at least 20 dB below the applicable limit. Therefore, the data is not presented in this report.

A.3 Radiated Restricted Band Edge Test Result

Site	WZ-AC2	Test Date	2025-12-05
Temperature	21.3 °C	Humidity	42.6%
Limit	RSS-Gen_RE (3m)	Test Engineer	Dick Shen
Test Voltage	AC 120 V/60 Hz	Polarity	Horizontal
Test Mode	Transmiy by 802.11ac-VHT80 at 5775 MHz		

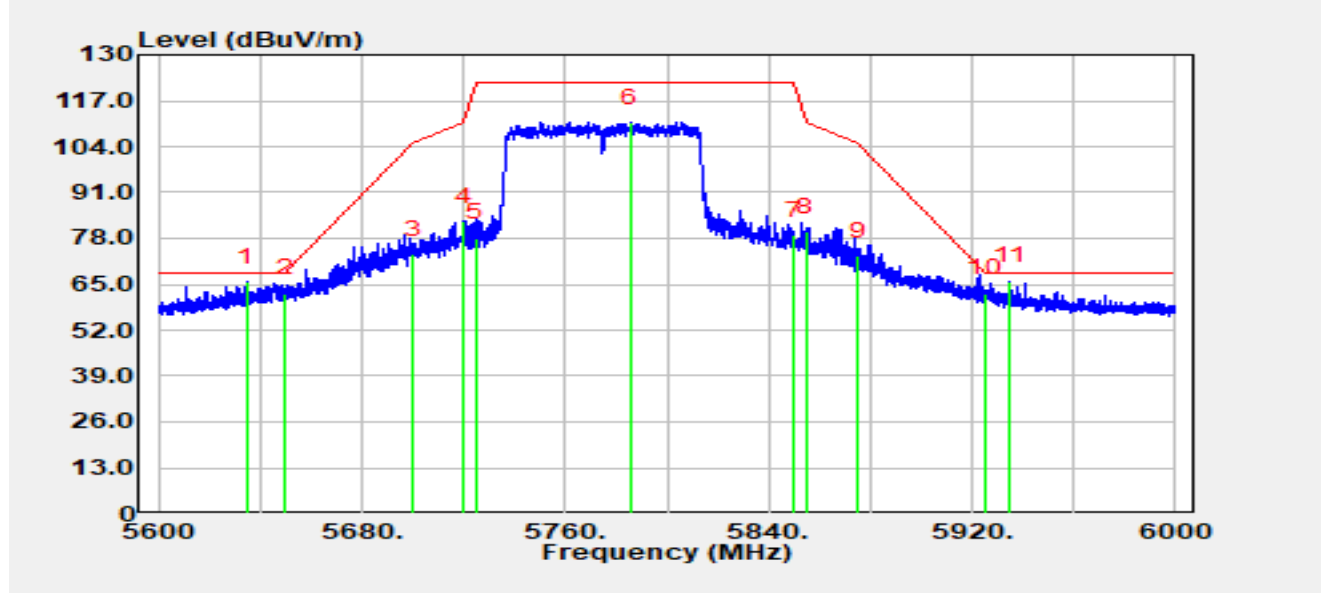


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5621.16	39.94	20.42	60.37	-7.83	68.20	Peak
2		5650.00	37.91	20.18	58.09	-10.11	68.20	Peak
3		5700.00	43.62	20.59	64.21	-40.99	105.20	Peak
4		5720.00	47.73	20.84	68.57	-42.23	110.80	Peak
5		5725.00	46.57	20.82	67.39	-54.81	122.20	Peak
6		5787.64	80.44	21.02	101.46	N/A	N/A	Peak
7		5850.00	47.67	20.75	68.41	-53.79	122.20	Peak
8		5855.00	45.35	20.76	66.10	-44.70	110.80	Peak
9		5875.00	38.46	21.09	59.55	-45.65	105.20	Peak
10		5925.00	36.65	21.04	57.69	-10.51	68.20	Peak
11	*	5962.76	39.19	21.29	60.47	-7.73	68.20	Peak

Notes:

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

Site	WZ-AC2	Test Date	2025-12-05
Temperature	21.3 °C	Humidity	42.6%
Limit	RSS-Gen_RE (3m)	Test Engineer	Dick Shen
Test Voltage	AC 120 V/60 Hz	Polarity	Vertical
Test Mode	Transmiy by 802.11ac-VHT80 at 5775 MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		5634.52	45.05	20.48	65.52	-2.68	68.20	Peak
2		5650.00	42.25	20.18	62.43	-5.77	68.20	Peak
3		5700.00	52.90	20.59	73.49	-31.71	105.20	Peak
4		5720.00	61.96	20.84	82.80	-28.00	110.80	Peak
5		5725.00	57.40	20.82	78.22	-43.98	122.20	Peak
6		5785.68	89.76	20.98	110.74	N/A	N/A	Peak
7		5850.00	58.09	20.75	78.84	-43.36	122.20	Peak
8		5855.00	59.19	20.76	79.95	-30.85	110.80	Peak
9		5875.00	51.80	21.09	72.89	-32.31	105.20	Peak
10		5925.00	41.31	21.04	62.36	-5.84	68.20	Peak
11	*	5935.04	44.81	21.04	65.85	-2.35	68.20	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) + Attenuation (dB) - AMP (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Appendix B - Test Setup Photograph

Refer to "R25S1068112-CT" file.

Appendix C - EUT Photograph

Refer to "R25S1068112-CE" file.

_____ The End _____