

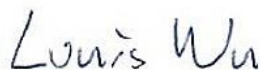


FCC RADIO TEST REPORT

FCC ID : HD5-CT37X0N
Equipment : mobile computer
Brand Name : Honeywell
Model Name : CT37X0N
Marketing Name : CT37
Applicant : Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707
Manufacturer : Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 05, 2024 and testing was performed from Jul. 18, 2024 to Aug. 01, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

| Report No. | Version | Description | Issue Date |
|------------|---------|---|---------------|
| FR470534 | 01 | Initial issue of report | Jul. 26, 2024 |
| FR470534 | 02 | Revise Section 2.1.6 This report is an updated version, replacing the report issued on Jul. 26, 2024. | Jul. 30, 2024 |
| FR470534 | 03 | Revise Section 2.2.4, 2.2.5 and List of Measuring Equipment This report is an updated version, replacing the report issued on Jul. 30, 2024. | Aug. 01, 2024 |
| FR470534 | 04 | Revise Equipment Name and Product Feature This report is an updated version, replacing the report issued on Aug. 01, 2024. | Aug. 06, 2024 |
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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|--|---|--------------------|--------|
| 2.1 | 15.407 KDB 987594 D02 Section II. L. | Standard Client Proper Power Adjustment Measurement | Pass | - |
| 2.2 | 15.407 KDB 987594 D02 Section II. K. | Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP | Pass | - |

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | |
|-----------------|---|
| General Specs | Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax and NFC |
| Antenna Type | WLAN: <Ant. 6>: LDS Antenna <Ant. 7>: LDS Antenna Bluetooth: FPC Antenna NFC: FPC Antenna |
| SW Version | 514 03.00.0273-N-DEBUG- FIMG |

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

| | |
|--------------------|---|
| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. DF02-HY |

FCC designation No.: TW1190

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Result

2.1 Standard Client Proper Power Adjustment Measurement

2.1.1 Limit of Standard Client Proper Power Adjustment

15.407 KDB 987594 D02 Section II. L. Power limits for standard client devices

c) The maximum power limits shall remain at least 6 dB below the power levels authorized for the associated standard-power access point

2.1.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section L. Proper Power Adjustment

2.1.3 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test procedure to show that the client device can lower its power accordingly.

2.1.4 Test Procedure:

1. Connect equipment as shown in Figure 7 below.
2. Adjust Atten 1 to Std Power AP so as to facilitate error free communication with the Client but protect the Client receiver from overload or damage.
3. Configure the Client and AP so that they associate and start sending data (stream data). The AP should be configured such that its registered power is 36 dBm EIRP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Use this power, along with its antenna gain, to calculate the Client EIRP.
6. The Client EIRP should be minimally 6 dB lower than that of the AP.
7. Repeat Steps 2 through 5 at two other selected measurement points – the first at the midpoint and the second at the lowest rated power of the client as declared by the manufacturer.

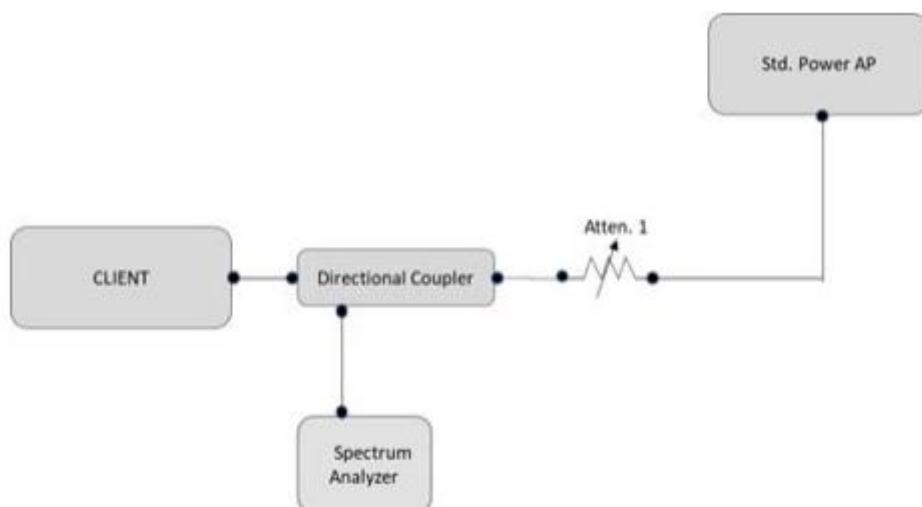


Figure 7. Test setup for conducted testing

2.1.5 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

802.11ax 20MHz bandwidth

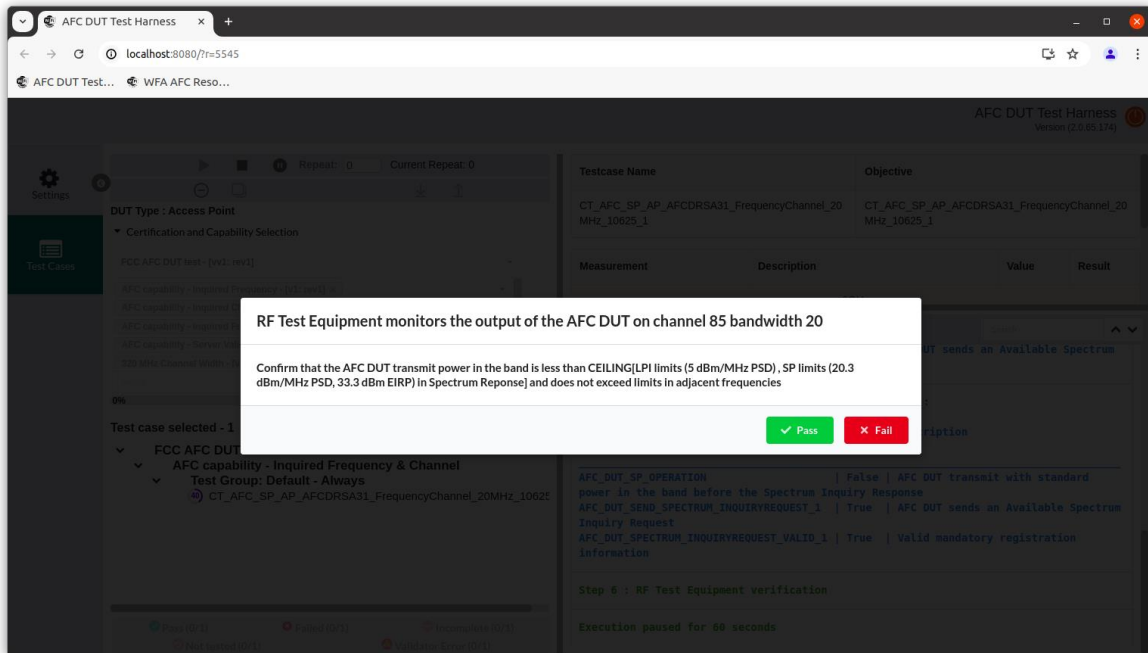
Test channel 85

| | Client MIMO conducted Power (dBm) | Client MIMO EIRP (dBm) | AP EIRP (dBm) | AP to client EIRP Delta (dB) |
|----------------------|---|------------------------------|------------------|------------------------------------|
| Maximum EIRP | 16.56 | 17.16 | 33.30 | 16.14 |
| Midpoint EIRP | 15.33 | 15.93 | 23.80 | 7.87 |
| Lowest EIRP | 13.43 | 14.03 | 21.40 | 7.37 |
| Requirement | | | | At least 6 dB |
| Result | | | | Pass |

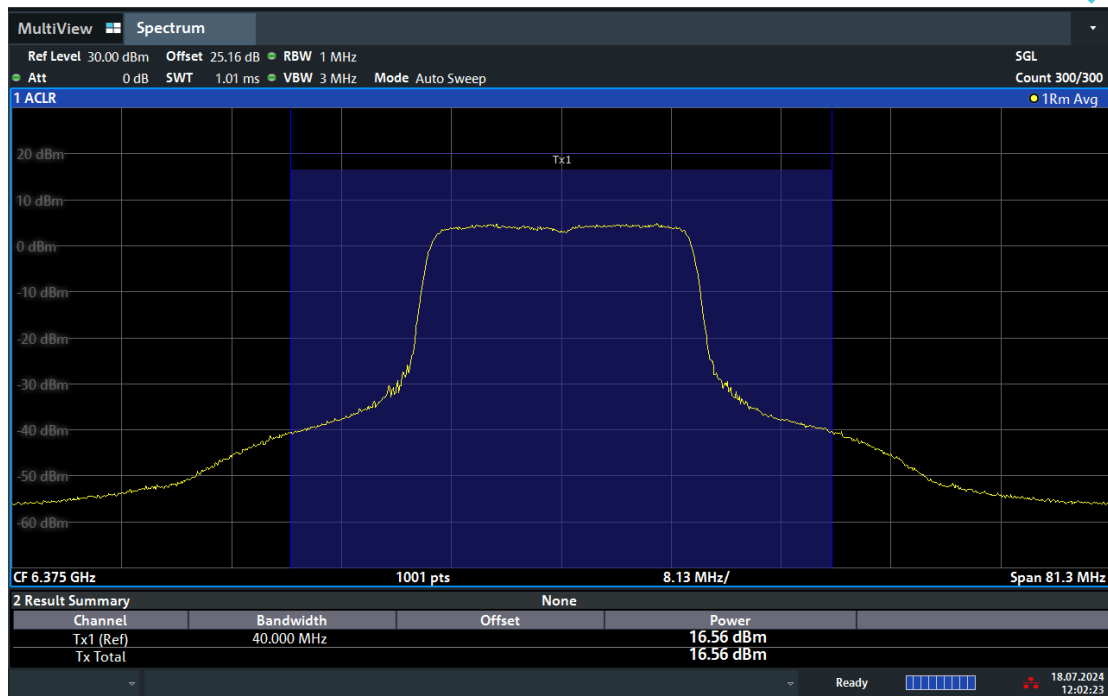
Note: Client EIRP = Client conducted power + antenna gain 0.6dBi

2.1.6 Test Result Plot

AP EIRP 33.30dBm

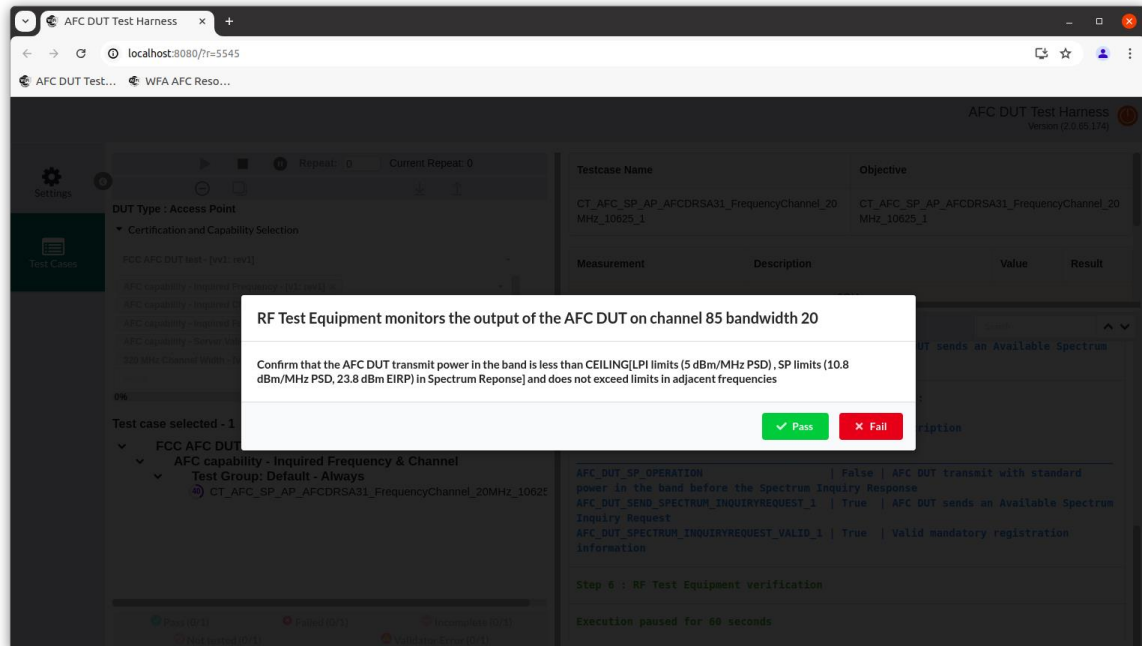


Measured highest power Client conducted power 16.56dBm

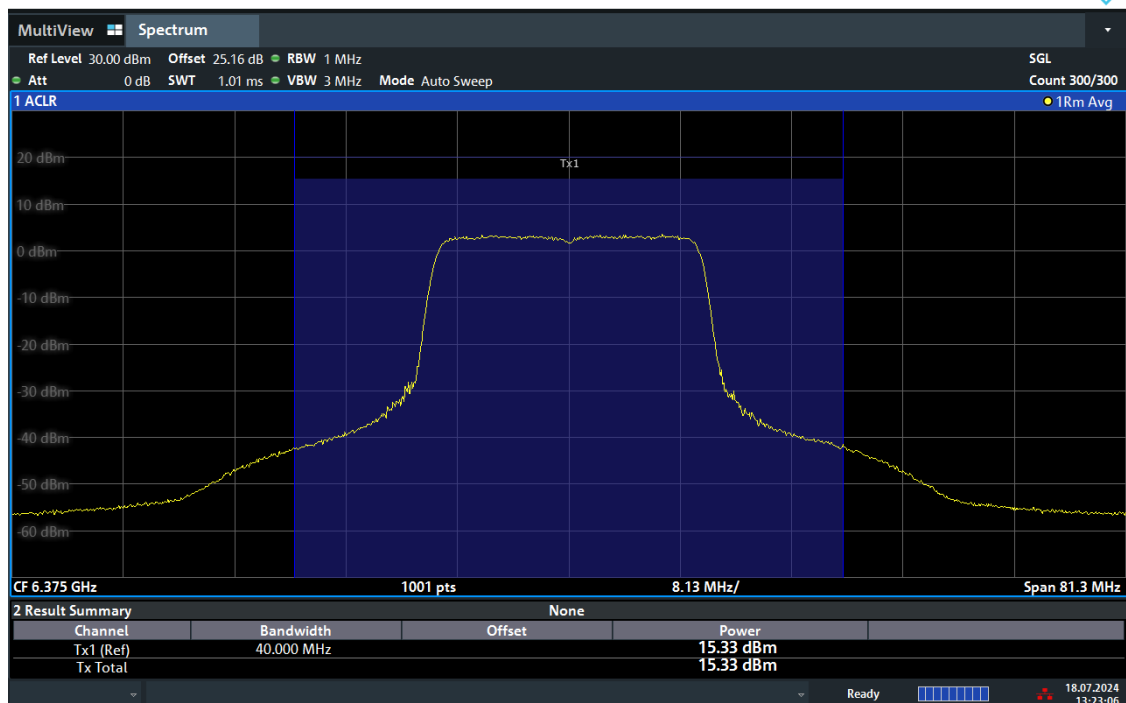




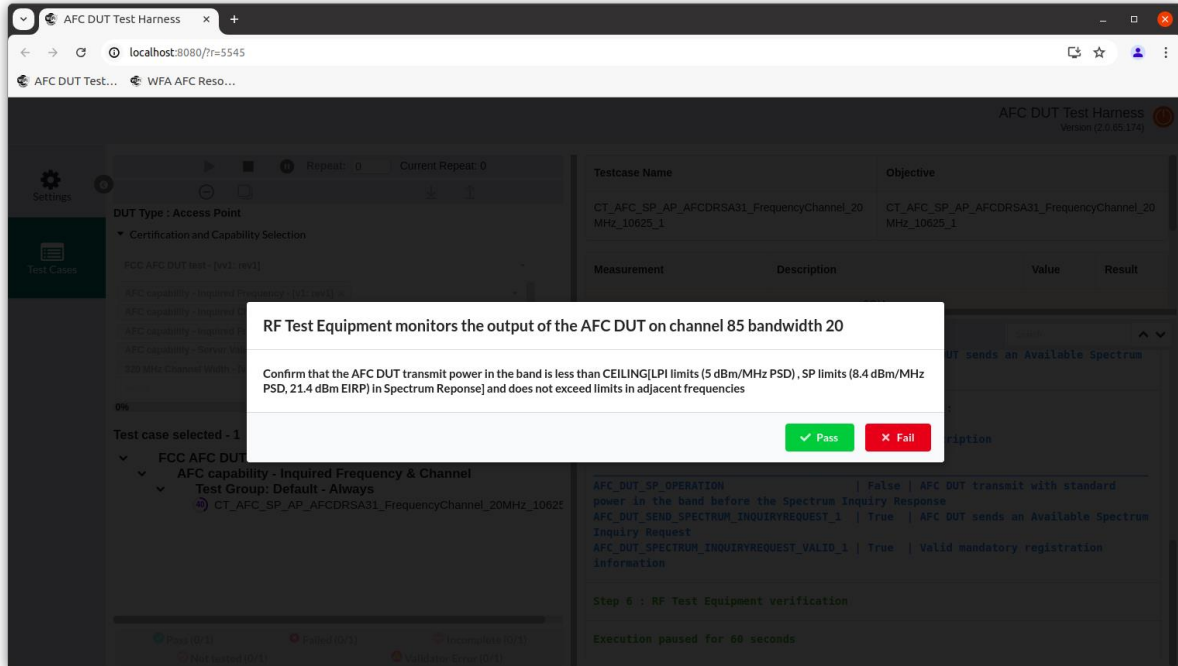
AP EIRP 23.80dBm



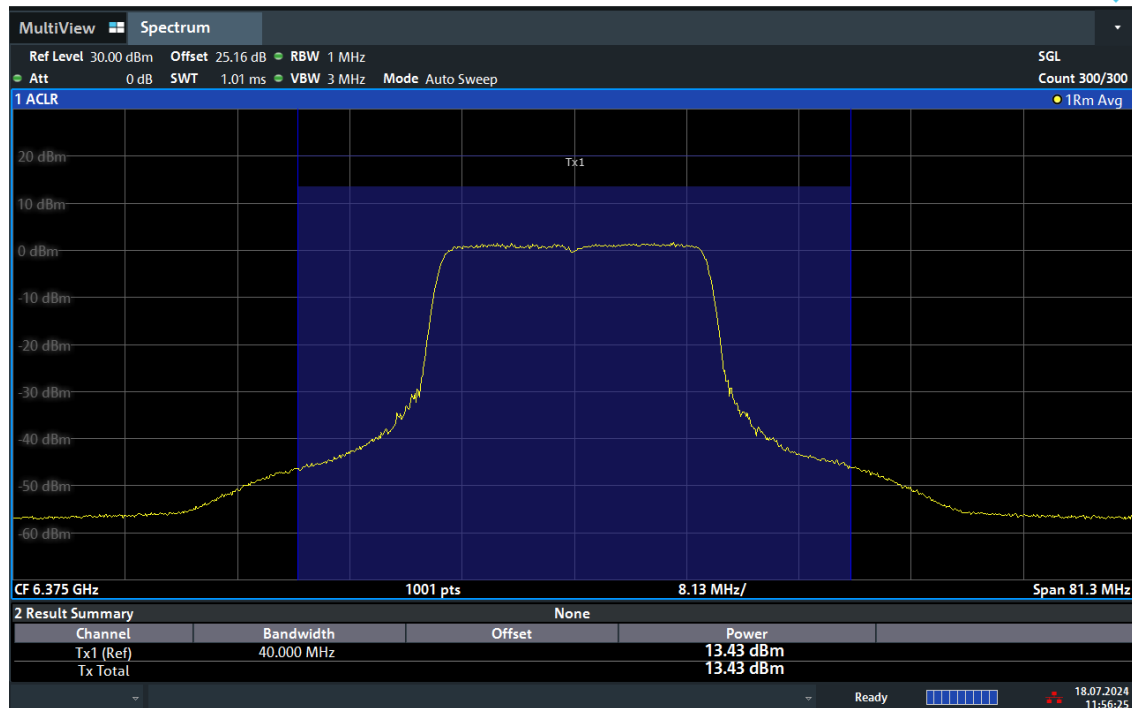
Measured mid-point power
Client conducted power 15.33dBm



AP EIRP 21.40dBm



Measured lowest power Client conducted power 13.43dBm



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2.2 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

2.2.1 Limit of Proper Power Adjustment

15.407 KDB 987594 D02 Section II. K. Power limits for standard client devices

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP.

2.2.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section K. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

2.2.3 Test Procedure:

1. Connect equipment as shown in Figure 6 below..
2. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP)
3. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indoor AP.
6. Verify transmission between Client and Low Power AP.
7. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP

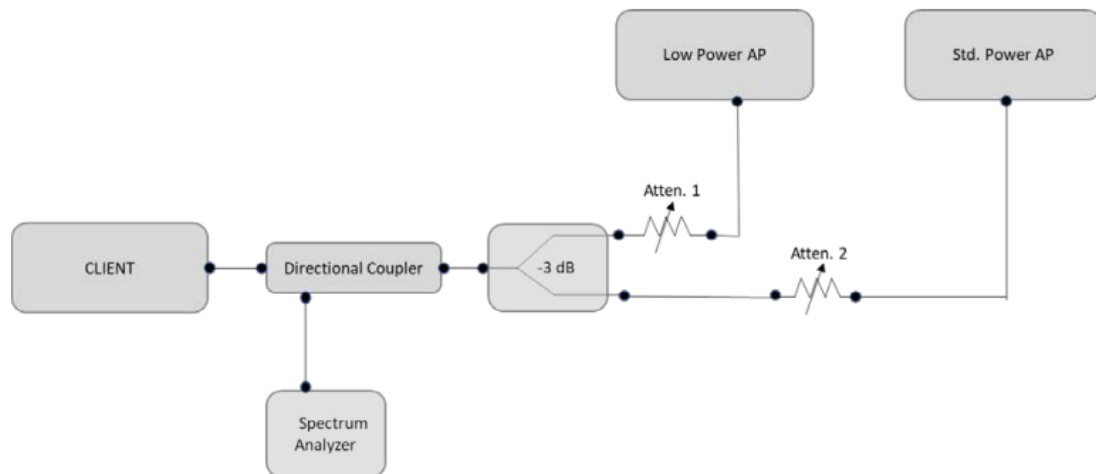


Figure 6. Test setup for conducted testing

2.2.4 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

Companion Indoor Power AP: Brand name: ASUS, Model name: GT-AXE11000

802.11ax 20MHz bandwidth

Test channel 49

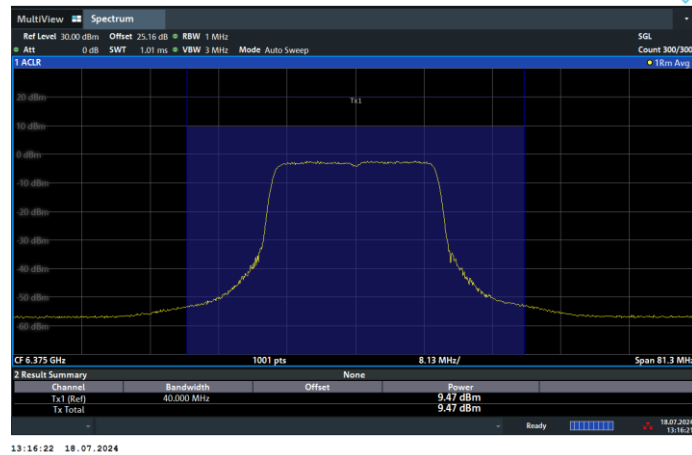
| | Client MIMO conducted Power (dBm) | Client MIMO EIRP (dBm) | Limit EIRP (dBm) | Result |
|---------------|---|------------------------------|---------------------|--------|
| Indoor EIRP | 9.47 | 10.07 | 24 | Pass |
| Standard EIRP | 16.35 | 16.95 | 30 | Pass |

Note: Client EIRP = Client conducted power + antenna gain 0.6 dBi

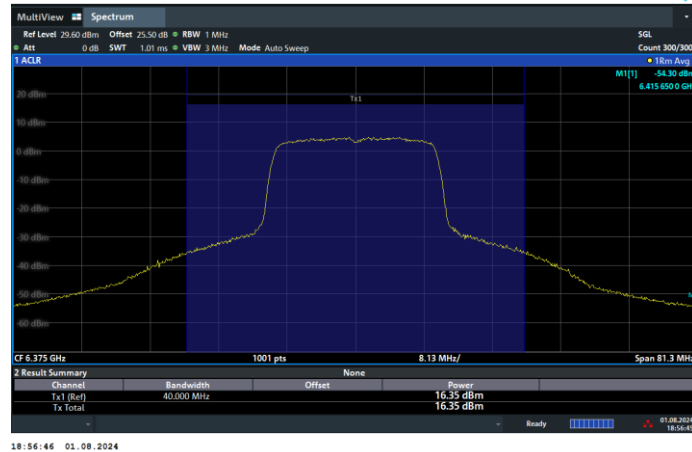


2.2.5 Test Result Plot

Measured Indoor power
Client conducted power 9.47dBm



Measured Standard power
Client conducted power 16.35dBm





3 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|-----------------|-----------|------------|-----------------|------------------|---------------------------------|---------------|------------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV3013 | 101549 | 10Hz~13.6GHz | Jan. 30, 2024 | Jul. 18, 2024~ Aug. 01, 2024 | Jan. 29, 2025 | AFC (DF02-HY) |

————THE END————