

TEST REPORT

Application No.: SZCR2506002740AT
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Name: Tablet Computer
Model No.: 25091RP04G
Trade Mark: Xiaomi
FCC ID: 2AFZZRP04G
Standards: 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-07-21
Date of Test: 2025-07-29 to 2025-09-26
Date of Issue: 2025-09-26

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-08-27		Original
02		2025-09-26		Updated setup diagram, supported unit, test equipment and test data.

Authorized for issue by:				
		Kevin Lan		
		Kevin Lan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Test Requirements	Test Result	Result
Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	15.407 KDB 987594 D02 Section II. K.	The EUT can distinguish between the Standard Power AP and Low Power indoor AP configurations and then control the power levels accordingly.	Clause 5.1	PASS
Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)	15.407 KDB 987594 D02 Section II. L.	The EUT that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power AP's authorized transmit power.	Clause 5.2	PASS



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4 General Information

4.1 General Description of EUT

EUT Description:	Tablet Computer	
Model No.:	25091RP04G	
Trade Mark:	Xiaomi	
Hardware Version:	135100P81	
Software Version:	Xiaomi HyperOS 3.0	
Power Supply:	DC 3.91V from internal rechargeable battery which can be charge by AC/DC adapter	
IEEE 802.11 WLAN Mode Supported:	☒ 802.11a (20 MHz channel bandwidth) ☒ 802.11ax/be (20 MHz channel bandwidth) ☒ 802.11ax/be (40 MHz channel bandwidth) ☒ 802.11ax/be (80 MHz channel bandwidth) ☒ 802.11ax/be (160 MHz channel bandwidth) ☒ 802.11be (320 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 a/ax/be (HE20/40/80/160/ EHT 320): 5925 MHz ~ 6425 MHz IEEE 802.11 a/ax/be (HE20/40/80/160/ EHT 320): 6425 MHz ~ 6525 MHz IEEE 802.11 a/ax/be (HE20/40/80/160/ EHT 320): 6525 MHz ~ 6875 MHz IEEE 802.11 a/ax/be (HE20/40/80/160/ EHT 320): 6875 MHz ~ 7125 MHz	
Type of Modulation:	OFDM/OFDMA	
FCC Classification:	Dual Client(6CD)	
Antenna Type:	Ant0: PIFA Antenna Ant1: Resonant cavity Antenna	
Smart System:	☒ SISO	802.11a/ax/be
	☒ MIMO	802.11ax/be: 2Tx & 2Rx
	☒ Diversity	802.11a: 2Tx & 2Rx
Antenna Gain:	Ant0:UNII-5:0.75 dBi; UNII-6:0.8dBi; UNII-7:0.92dBi; UNII-8:-1.1dBi; Ant1:UNII-5:1.4dBi; UNII-6:0.8dBi; UNII-7:0.9dBi; UNII-8:1dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2.2dB	
Remark: 1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



4.2 Test Environment

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	40.7-51.7 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22.4~27.3	3.91
Remark: NV: Normal Voltage NT: Normal Temperature		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L13	R9-12EBNA
Router	TP-LINK	Deco BE65-Outdoor	Deco-A23E8

4.4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Maximum Conducted output power	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Cal Due Date
Spectrum Analyzer	Keysight	N9020A	SEM004-19	2025/03/04	2026/03/03



5 Test results and Measurement Data

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

Test Requirement:	47 CFR Part 15, Subpart E
Test Method:	KDB 987594 D02 Section II. K.
Limit:	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.
Test Procedure:	1. Connect equipment as shown in Figure below. 2. Adjust Standard Power AP to facilitate error-free communication with the Client. 3. Configure the Client and APs to associate and send data (stream data). The client must be configured to transmit at its highest power level. Initially, the Client will only associate with the Std Power AP. 4. Verify transmission between the Client and the Standard 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. Change the AP to Low-Power AP mode to communicate with the client. This simulates the Client moving from outdoors to indoors. At some level of attenuation, the Client should associate with the Low-Power indoor AP. Verify transmission between the Client and the Low-Power AP. 6. 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.
Test Setup:	
Test Results:	Pass



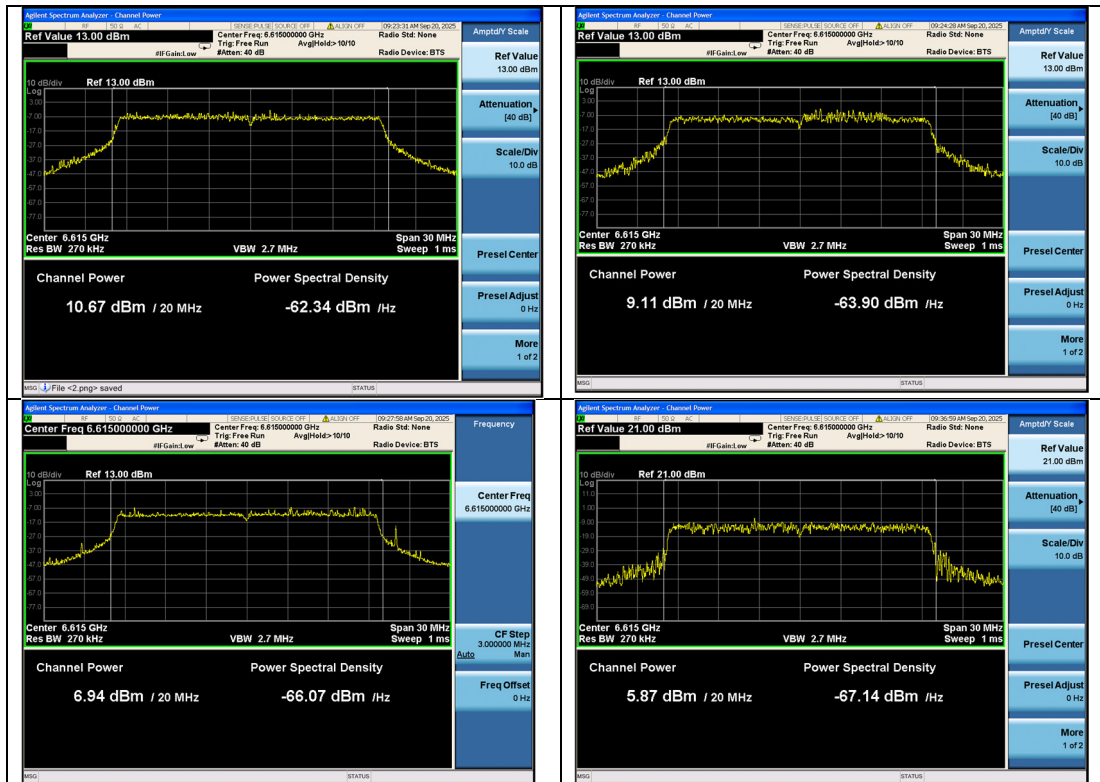
Measurement Data:

Companion Standard Power AP and Low Power indoor AP: Brand name: TP-LINK, Model name: Deco BE65-Outdoor
802.11ax 20MHz bandwidth
Test frequency: 6615MHz

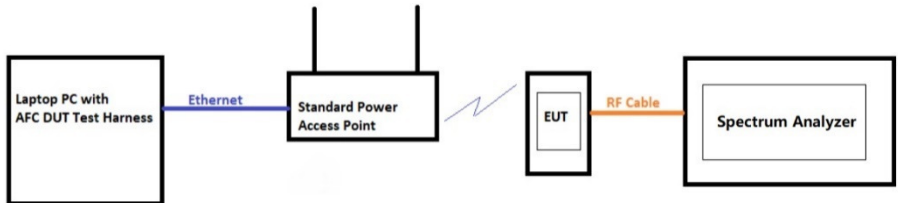
	Client Conducted Power(dBm)			Client EIRP(dBm)			Limit EIRP(dBm)	Result
	Ant0	Ant1	MIMO	Ant0	Ant1	MIMO		
Standard Power EIRP	10.67	9.11	12.97	11.59	10.01	13.88	30	Pass
Low Power Indoor EIRP	6.94	5.87	9.45	7.86	6.77	10.36	24	Pass

Antenna gain: Ant0:0.92dBi, Ant1:0.9dBi

Test Plots:



5.2 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)

Test Requirement:	47 CFR Part 15, Subpart E
Test Method:	KDB 987594 D02 Section II. L.
Limit:	The maximum power limits shall remain at least 6 dB below the power levels authorized for the associated standard-power access point.
Test Procedure:	1. Connect equipment as shown in Figure below. 2. The Std Power AP can be configured adequately to demonstrate proper client power adjustment. 3. Adjust Std Power AP to facilitate error-free communication with the Client but protect the Client receiver from overload or damage. 4. Configure the Client and AP to associate and send data (stream data). The AP should be configured so its registered power is 36 dBm EIRP. 5. Verify transmission between the Client and the Standard 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. Use this power and its antenna gain to calculate the Client EIRP. 6. The Client EIRP should be minimally 6 dB lower than the APs. 7. Repeat Steps 2 through 5 at two other selected measurement points—the first at the midpoint and the second at the client's lowest rated power, as declared by the manufacturer.
Test Setup:	 <pre> graph LR Laptop[Laptop PC with AFC DUT Test Harness] -- Ethernet --- AP[Standard Power Access Point] AP --- EUT[EUT] AP -- RF Cable --- SA[Spectrum Analyzer] </pre>
Test Results:	Pass



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Measurement Data

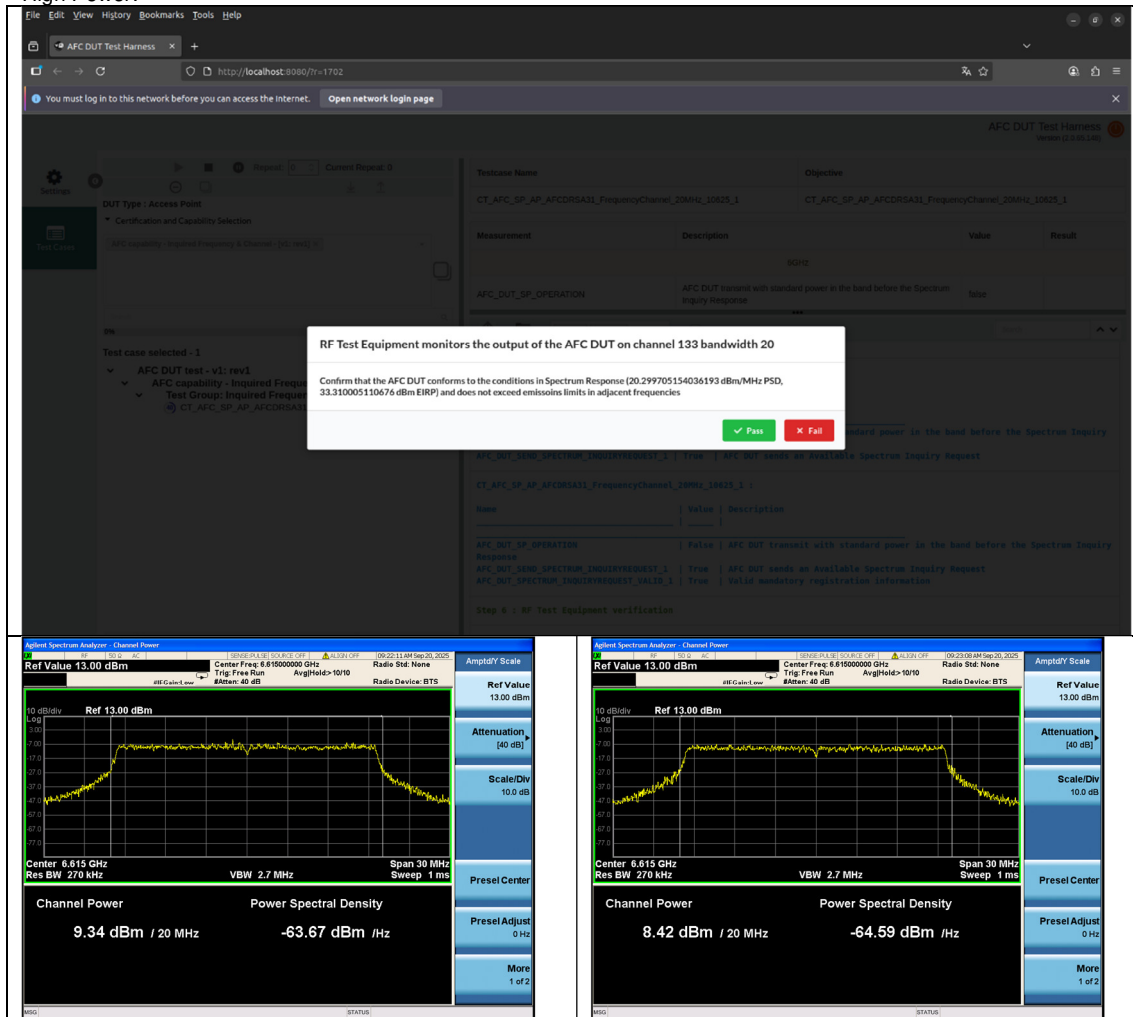
Companion Standard Power AP and Low Power indoor AP: Brand name: TP-LINK, Model name: Deco BE65-Outdoor
802.11ax 20MHz bandwidth

Test Frequency	AP EIRP(dBm)	Conducted Power(dBm)	Client EIRP(dBm)	MIMO(dBm)	Delta(dB)	Requirement	Result
6615MHz	33.31	Ant0: 9.34	Ant0: 10.26	12.83	20.48	At least 6 dB	Pass
		Ant1: 8.42	Ant1: 9.32				
	25.72	Ant0: 8.72	Ant0: 9.64	12.33	13.39		
		Ant1: 8.08	Ant1: 8.98				
	22.93	Ant0: 8.11	Ant0: 9.03	11.61	11.32		
		Ant1: 7.23	Ant1: 8.13				

Antenna gain: Ant0:0.92dBi, Ant1:0.9dBi

Test Plots:

High Power:



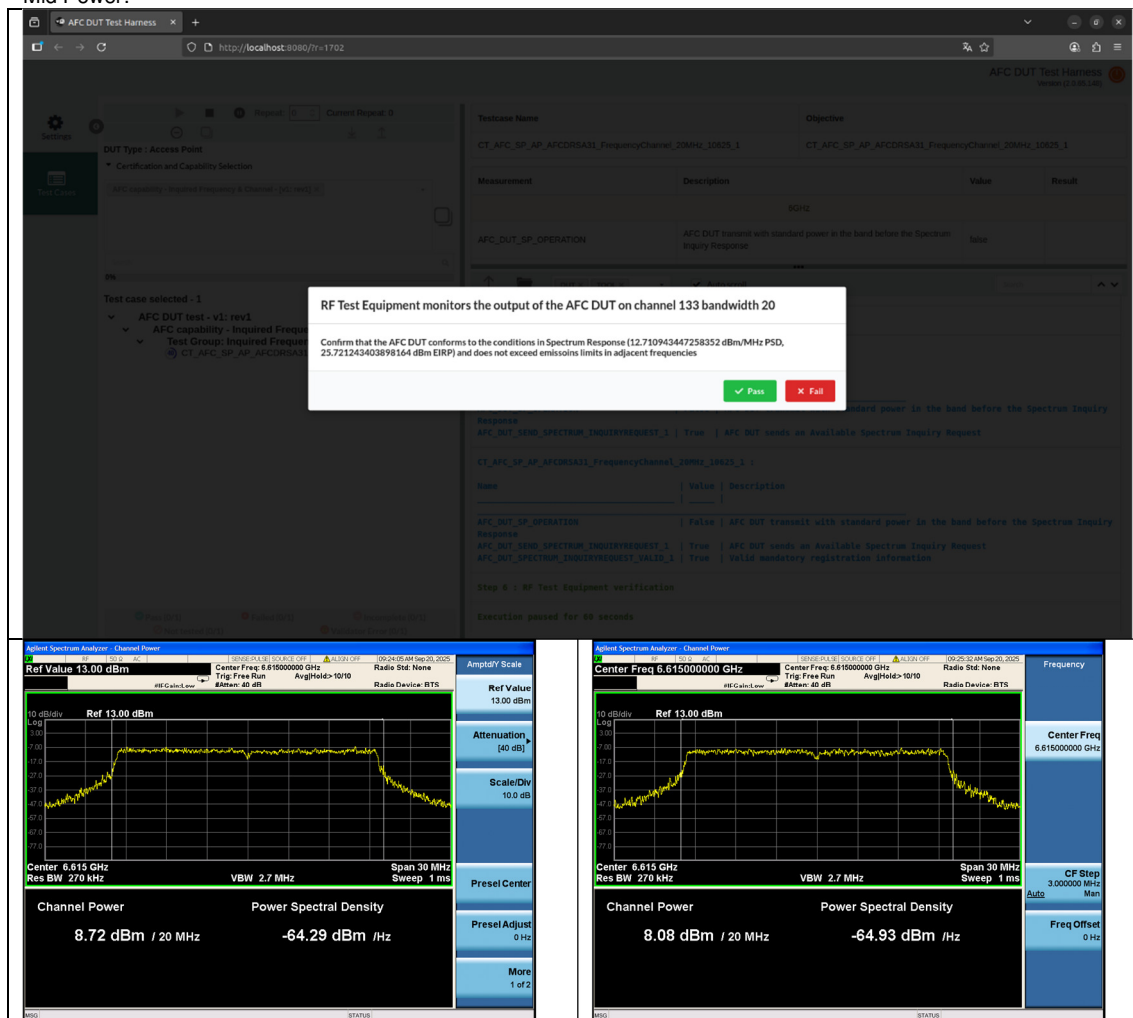
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Mid Power:



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Shenzhen Branch Testing Center EEC Laboratory.

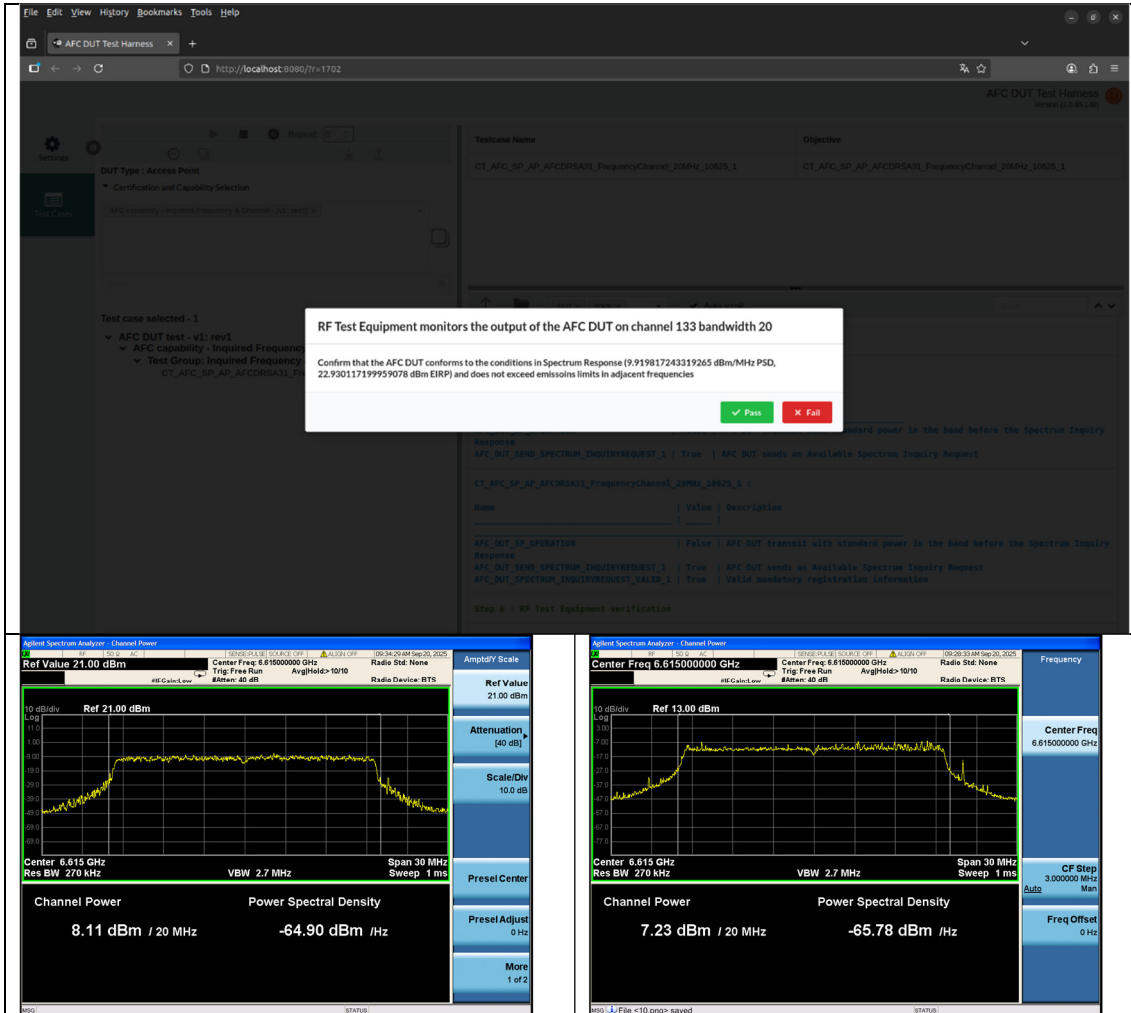
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Low Power:



6 Test Setup Photo

Please refer to SZCR2506002740AT Appendix_Setup Photo

7 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2506002740AT

---End of Report---

