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TEST REPORT CBSD-SAS Interoperability

Applicant Name:

Eridan Communications, Inc
400 W California Ave.
Sunnyvale, CA 94086
United States

Date of Testing:

9/18/2025 – 10/1/2025

Test Report Issue Date:

11/18/2025

Test Site/Location:

Element lab. Columbia, MD, USA

Test Report Serial No.:

1M2508040072-02-R1.2BR8Z

FCC ID:

2BR8Z-ER2035A

APPLICANT:

Eridan Communications, Inc.

Application Type:

Certification

Model:

ER2035

EUT Type:

Small Cell Radio Unit

Frequency Range:

3550 – 3700 MHz

FCC Classification:

Citizens Band Category A and B Devices (CBD)

FCC Rule Part(s):

Part 96

Test Procedure(s):

WINNF-TS-0122-V1.0.2, CBRSA-TS-9001 V.1.0.0

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 the test procedures listed above. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2508040072-02-R1.2BR8Z) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.


RJ Ortanez
Executive Vice President



FCC ID: 2BR8Z-ER2035A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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TEST REPORT REVISION HISTORY

Rev. No.	Report S/N	Description	Issue Date
-	1M2508040072-02.2BR8Z	Initial Release	11/5/2025
R1	1M2508040072-02-R1.2BR8Z	Addressed comment from TCB	11/18/2025

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of compliance with the technical rules and regulations of the Federal Communications Commission.

1.2 Element Test Location

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element is a CBRS Alliance (OnGo) Approved Test Lab
- Element is a WInnForum Approved Test Lab
- Element is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for CBRS Alliance Certification Test Plan and WInnForum Conformance and Performance Test Technical Standard.
- Element is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISCED Standards (RSS).
- Element Washington DC LLC facility is a registered test laboratory with the site description on file with ISCED (Wireless Test Lab number 2451B) and FCC (Designation Number US1113).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISCED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreement.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Eridan Small Cell Radio Unit FCC ID: 2BR8Z-ER2035A**. The test data contained in this report pertains only to CBSD-SAS interoperability. The EUT operates as a Category B CBSD. The EUT is not a domain proxy.

Test Device Serial Number(s): S619345965

Test Device Hardware Version: PCS01

Test Device Software Version: 25A

2.2 Device Capabilities

This device contains the following capabilities:

5G NR n48 (20MHz and 40MHz BWs)

This device supports the following conditional features:

	Conditional Test Case Definitions	Supported
C1	Mandatory for UUT which supports multi-step registration message	☒
C2	Mandatory for UUT which supports single-step registration with no CPI-signed data in the registration message. By definition, this is a subset of Category A devices which determine all registration information, including location, without CPI intervention.	☐
C3	Mandatory for UUT which supports single-step registration containing CPI-signed data in the registration message.	☐
C4	Mandatory for UUT which supports RECEIVED_POWER_WITHOUT_GRANT measurement report type.	☐
C5	Mandatory for UUT which supports RECEIVED_POWER_WITH_GRANT measurement report type.	☐
C6	Mandatory for UUT which supports parameter change being made at the UUT and prior to sending a deregistration	☐

Table 2-1. Conditional Features

2.3 Test Configuration

The EUT was connected to the SAS Test Harness developed by WINNF WG4-CBSD. The SAS Test Harness (V1.0.0.2) provided by CBRS Alliance was used. The SAS Test Harness is synchronized to UTC time. The full WINNF-TS-0122 test scope was performed on NR.

2.4 Modifications

No modifications were made to EUT during testing.

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3.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Keysight	N9030A	PXA Signal Analyzer	6/6/2025	Annual	6/6/2026	MY52350166
Dell	Latitude 5580	Test Harness Laptop	N/A	N/A	N/A	N/A
-	WL40-1	Conducted Cable Set (40GHz)	2/25/2025	Annual	2/25/2026	WL40-1

Table 3-1 Annual Test Equipment Calibration Schedule

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4.0 ENVIRONMENTAL CONDITIONS

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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5.0 EVALUATION PROCEDURE

The measurement procedure described in KDB 940660 D01 v03 and WINNF-TS-0122-V1.0.2 was used in the measurement of the EUT.

Deviation from measurement procedure.....None

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6.0 TEST SUMMARY

6.1 Summary

Company Name: Eridan
FCC ID: 2BR8Z-ER2035A

FCC Part Section(s)	KDB940660 D01 Section 3.3 a)	Test Case Description	WinnForum Test Case	Test Result
96.39 (c)	1	Confirm that the device will only transmit after it receives authorization from a SAS	WINNF.FT.C.REG.1 WINNF.FT.C.REG.8 WINNF.FT.C.REG.10 WINNF.FT.C.REG.12 WINNF.FT.C.REG.14 WINNF.FT.C.REG.16 WINNF.FT.C.REG.18 WINNF.FT.C.GRA.1 WINNF.FT.C.GRA.2 WINNF.FT.C.HBT.5	Pass
96.39 (c)	2	Check the device registration and authorization with the SAS – determine if the device behaves appropriately for successful and unsuccessful registrations. The device should not be transmitting without authorization from the SAS.	WINNF.FT.C.REG.1 WINNF.FT.C.REG.8 WINNF.FT.C.REG.10 WINNF.FT.C.REG.12 WINNF.FT.C.REG.14 WINNF.FT.C.REG.16 WINNF.FT.C.REG.18	Pass
96.39(c)(1)	3	Confirm that the device changes its operating power and/or channel in response to a command from the SAS.	WINNF.FT.C.HBT.1	Pass
96.39	4	Confirm that the device correctly configures based on the different license classes	N/A	Pass
96.39(c)(1)	5	Confirm that the device transmits at a power level less than or equal to the maximum power level approved by the SAS.	WINNF.PT.C.HBT.1	Pass
96.39(b)(c)	6	Confirm that the device transmits with a bandwidth less than or equal to the SAS specified bandwidth.	WINNF.FT.C.HBT.1	Pass
96.39(c)(2)	7	Confirm that the device transmits on the SAS specified frequency.	WINNF.FT.C.HBT.1	Pass
96.39(c)(2)	8	Confirm that the device stops transmission in response to a command from the SAS, within a period as required by Part 96.	WINNF.FT.C.HBT.3 WINNF.FT.C.HBT.4 WINNF.FT.C.HBT.6 WINNF.FT.C.HBT.7 WINNF.FT.C.HBT.10 WINNF.FT.C.RLQ.1 WINNF.FT.C.DRG.1	Pass

Table 6-1. Summary of Test Results

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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96.39 (d)	9	Confirm that the device sends measurements data in response to the command from the SAS.	See Notes	Pass
96.39(a)	10	For devices with geo-location, confirm that it notifies the SAS of a new location when it is beyond the required distance parameter (± 50 m) within the required time frame.	N/A	N/A
96.39 (d)	11	Confirm that the device is capable of reporting the signal level (measurement data) and frequency to SAS.	N/A	N/A
96 E	12	When CBSDs communicate through a management system, confirm compliance with all requirements.	N/A	Pass
96.39	13	When communication between the CBSD and SAS is lost: i) Describe how the CBSD would react if the communications between the device and the SAS is lost. Confirm that the CBSD stops transmission once it loses the link to the SAS. ii) Describe the process for re-establishment of the communications and confirm that the CBSD acts accordingly. iii) Confirm power-on restart process for registration (re-registration) occurs as expected. iv) Confirm the process for de-registration occurs as expected.	WINNF.FT.C.HBT.9 WINNF.FT.C.HBT.10	Pass
96.39(f)	KDB940660 D01 Section 4	SAS and Device Security Requirements	WINNF.FT.C.SCS.1 WINNF.FT.C.SCS.2 WINNF.FT.C.SCS.3 WINNF.FT.C.SCS.4 WINNF.FT.C.SCS.5	Pass
96.39(e)	N/A	The CBSD must report to the SAS which available channels of frequencies it will use	WINNF.PT.C.HBT.1 WINNF.FT.C.HBT.1 WINNF.FT.C.HBT.3 WINNF.FT.C.HBT.4 WINNF.FT.C.HBT.5 WINNF.FT.C.HBT.7 WINNF.FT.C.HBT.9 WINNF.FT.C.HBT.10 WINNF.FT.C.RLQ.1 WINNF.FT.C.DRG.1	Pass

Notes:

- Test cases denoted as “N/A” in the table above are not applicable to the EUT and are either Optional or Conditional per Section 6 of WINNF-TS-0122.
- Please see Appendices for test data.
- Compliance with received power reporting requirements is met by measurements taken by the CPI and directly reported to the SAS provider.

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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Eridan Small Cell Radio Unit FCC ID: 2BR8Z-ER2035A** has been tested to show compliance with Part 96 and WINNF-TS-0122.

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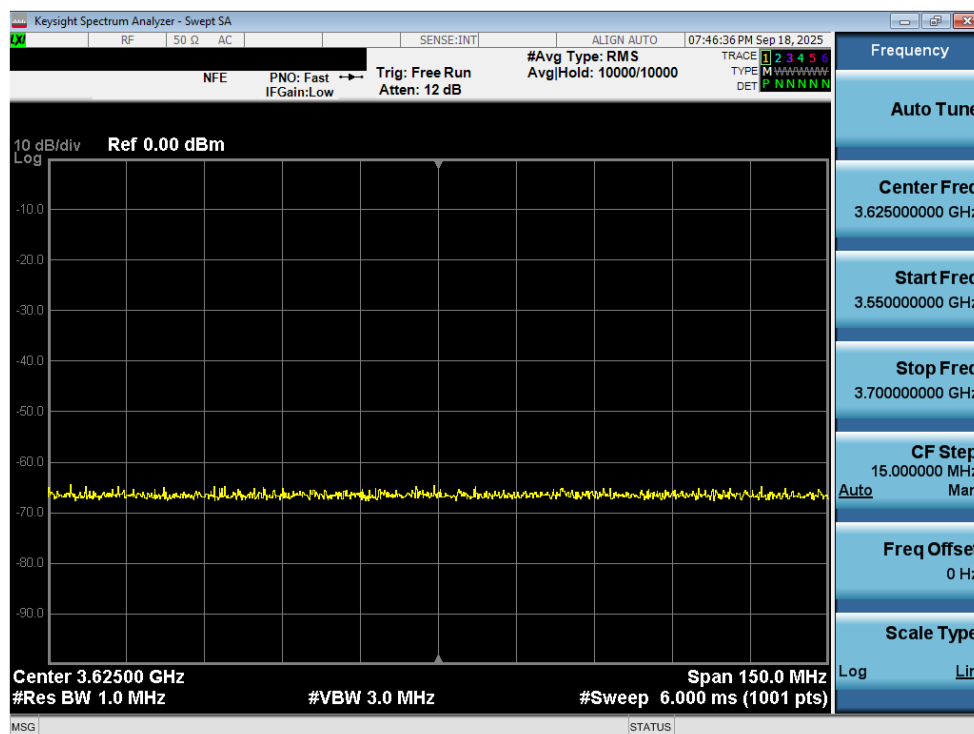
APPENDIX A – TEST RESULT AND DATA

A1 [WINNF.FT.C.REG.1] Multi-Step registration

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness • UUT is in the Unregistered state CBSD sends correct Registration request information, as specified in [n.5], to the SAS Test Harness:	--	--
2	• The required userId, fcId and cbsdSerialNumber registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges. • Any REG-conditional or optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges. Note: It is outside the scope of this document to test the Registration information that is supplied via another means.	☒	☐
3	• SAS Test Harness sends a CBSD Registration Response as follows: - cbsdId = Ci - measReportConfig shall not be included - responseCode = 0	--	--
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

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Test Plots:



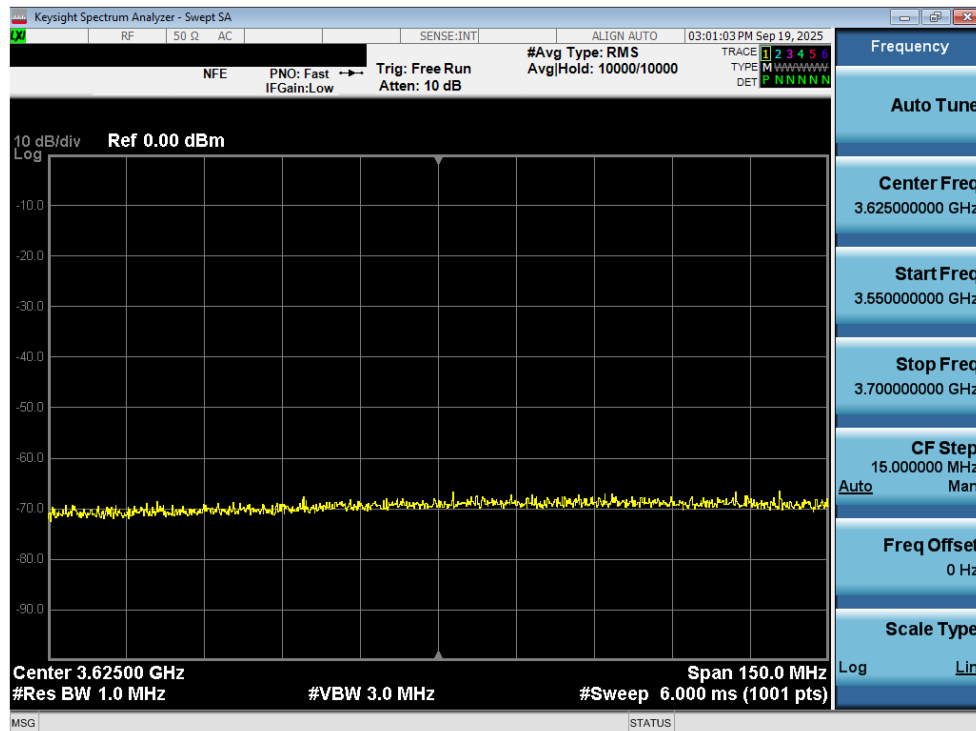
Plot 1. Conducted Measurement – No RF transmission in entire band for 60s of elapsed time (WINNF.FT.C.REG.1)

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A4 [WINNF.FT.C.REG.12] Invalid parameter (responseCode 103)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness • UUT is in the Unregistered state	--	--
2	CBSD sends a Registration request to SAS Test Harness.	--	--
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdId - responseCode = R	--	--
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



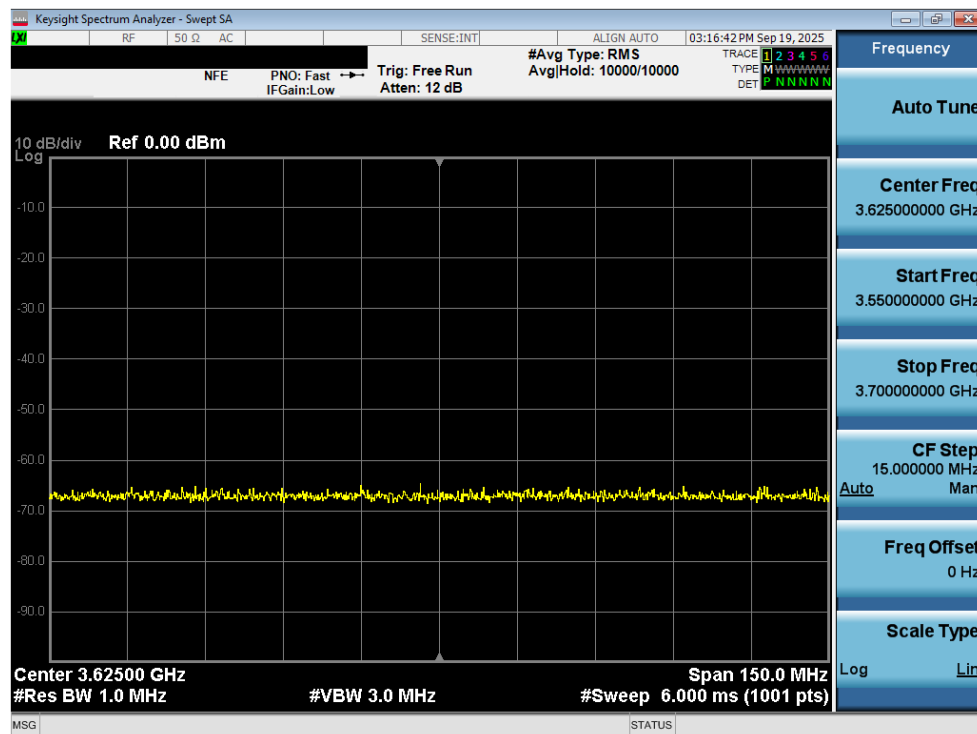
Plot 4. Conducted Measurement – No RF transmission in entire band for 60s of elapsed time (WINNF.FT.C.REG.12)

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A6 [WINNF.FT.C.REG.16] Unsupported SAS protocol version (responseCode 100)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness • UUT is in the Unregistered state	--	--
2	CBSD sends a Registration request to SAS Test Harness.	--	--
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include cbsdId - responseCode = R	--	--
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



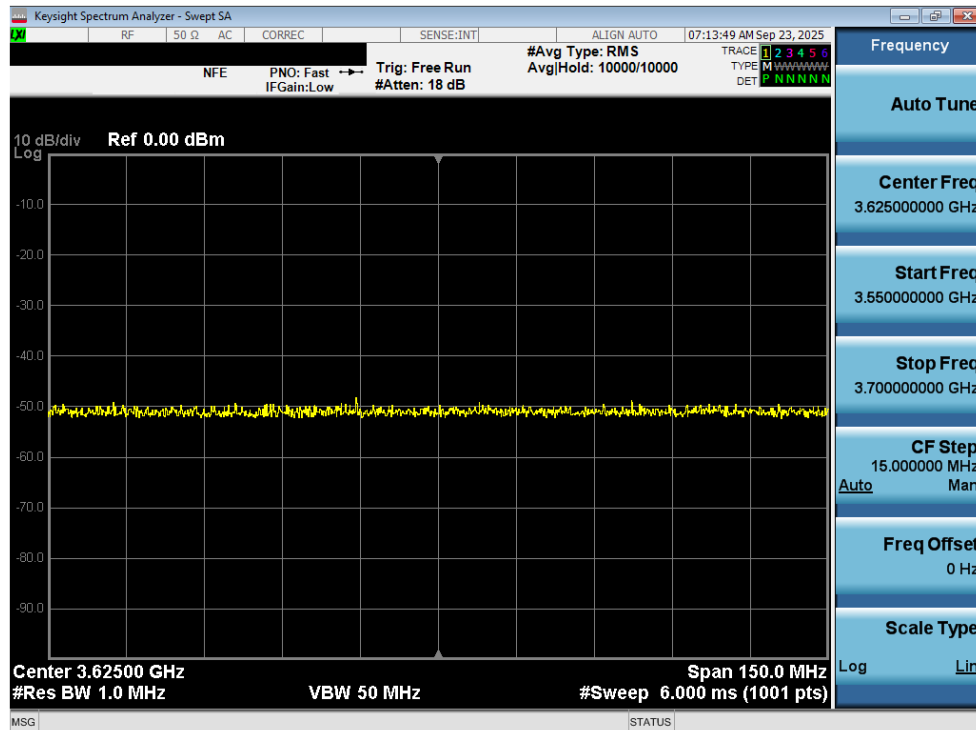
Plot 6. Conducted Measurement – No RF transmission in entire band for 60s of elapsed time (WINNF.FT.C.REG.16)

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A8 [WINNF.FT.C.GRA.1] Unsuccessful Grant responseCode=400 (INTERFERENCE)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness, with cbsdId = C	--	--
2	UUT sends valid Grant Request.	--	--
3	SAS Test Harness sends a Grant Response message, including • cbsdId=C • responseCode = R	--	--
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



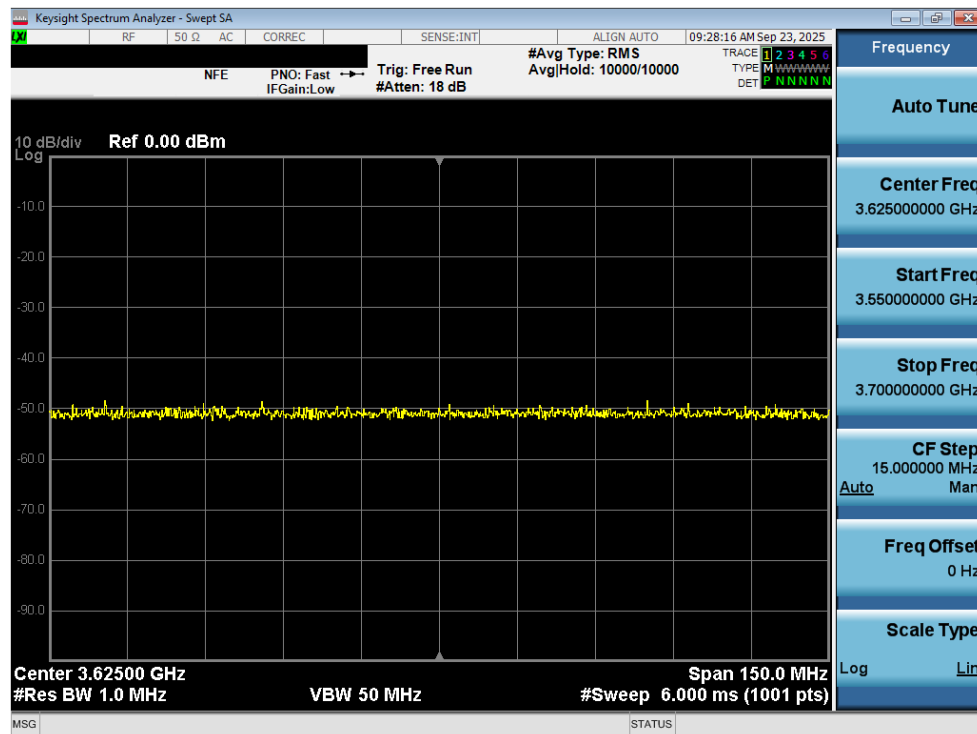
Plot 8. Conducted Measurement – No RF transmission in entire band for 60s of elapsed time (WINNF.FT.C.GRA.1)

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A9 [WINNF.FT.C.GRA.2] Unsuccessful Grant responseCode=401 (GRANT_CONFLICT)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness, with cbsdId = C	--	--
2	UUT sends valid Grant Request.	--	--
3	SAS Test Harness sends a Grant Response message, including • cbsdId=C • responseCode = R	--	--
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



Plot 9. Conducted Measurement – No RF transmission in entire band for 60s of elapsed time (WINNF.FT.C.GRA.2)

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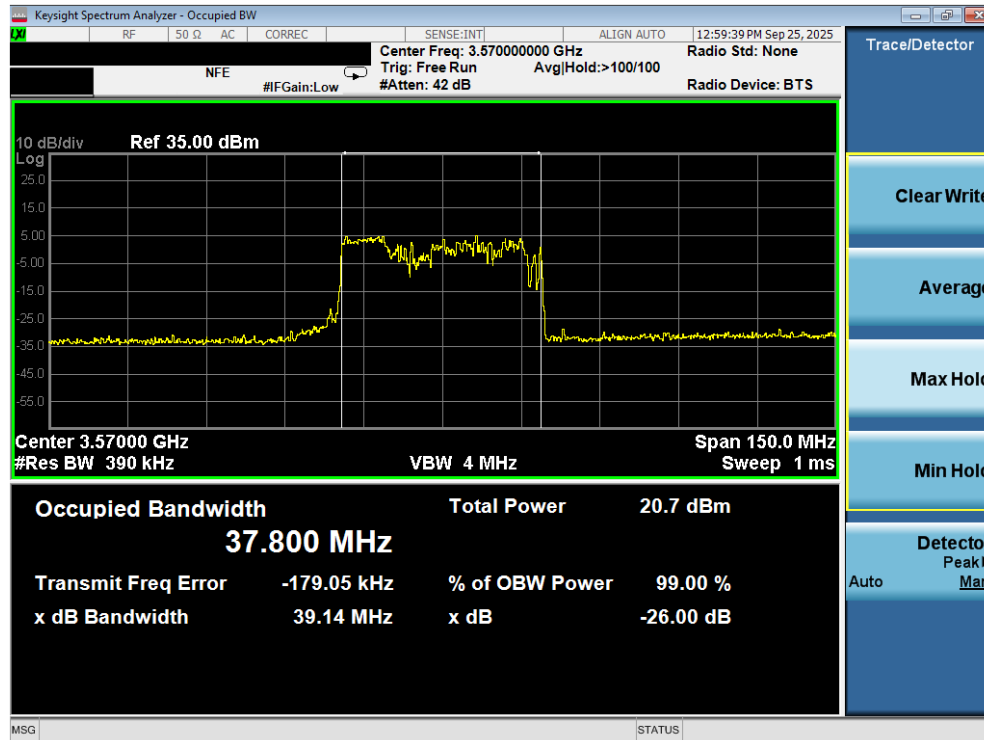
A10 [WINNF.FT.C.HBT.1] Heartbeat Success Case (first Heartbeat Response)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness, with cbsdId = C	--	--
2	UUT sends a message: • If message is type Spectrum Inquiry Request, go to step 3, or • If message is type Grant Request, go to step 5	--	--
3	UUT sends Spectrum Inquiry Request. Validate: • cbsdId = C • List of frequencyRange objects sent by UUT are within the CBRS frequency range	☒	☐
4	SAS Test Harness sends a Spectrum Inquiry Response message, including the following parameters: • cbsdId = C • availableChannel is an array of availableChannel objects • responseCode = 0	--	--
5	UUT sends Grant Request message. Validate: • cbsdId = C • maxEIRP is at or below the limit appropriate for CBSD category as defined by Part 96 • operationFrequencyRange, F, sent by UUT is a valid range within the CBRS band	☒	☐
6	SAS Test Harness sends a Grant Response message, including the parameters: • cbsdId = C • grantId = G = a valid grant ID • grantExpireTime = UTC time greater than duration of the test • responseCode = 0	--	--
7	UUT sends a first Heartbeat Request message. Verify Heartbeat Request message is formatted correctly, including: • cbsdId = C • grantId = G • operationState = "GRANTED"	☒	☐
8	SAS Test Harness sends a Heartbeat Response message, with the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = current UTC time + 200 seconds • responseCode = 0	--	--
9	For further Heartbeat Request messages sent from UUT after completion of step 8, validate message is sent within latest specified heartbeatInterval, and: • cbsdId = C • grantId = G • operationState = "AUTHORIZED" and SAS Test Harness responds with a Heartbeat Response message including the following parameters: • cbsdId = C	☒	☐

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[illegible]

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Plot 11. Conducted Measurement Occupied Bandwidth for 40MHz (WINNF.FT.C.HBT.1) – NR

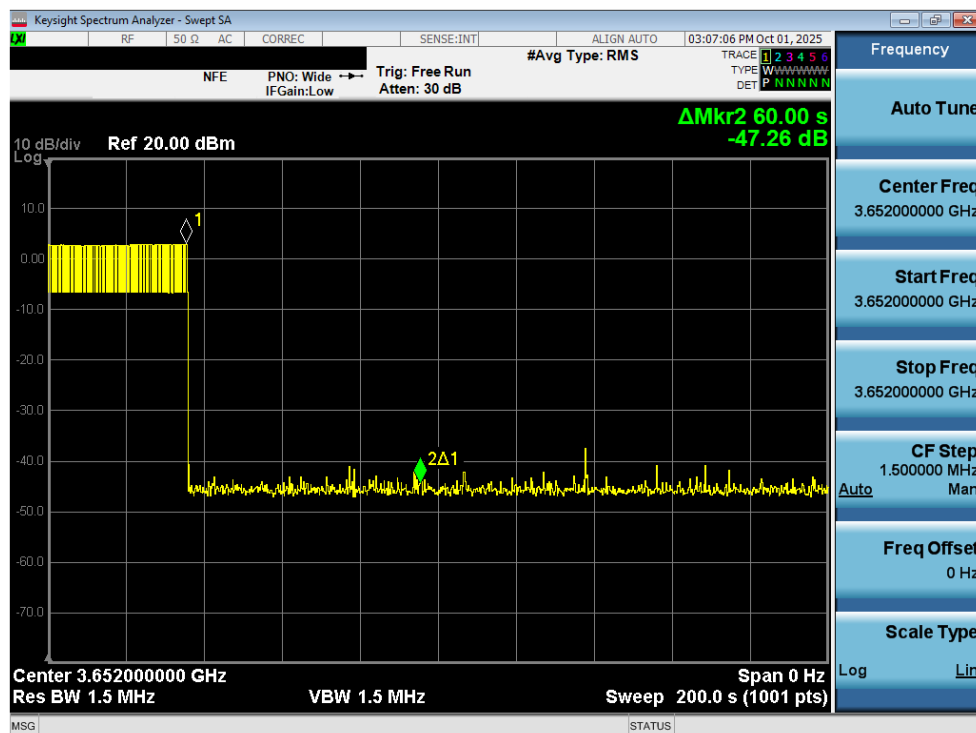
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A11 [WINNF.FT.C.HBT.3] Heartbeat responseCode=105 (DEREGISTER)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdId = C • grantId = G • operationState = "AUTHORIZED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = T = Current UTC time • responseCode = 105 (DEREGISTER)	--	--
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.	--	--
5	Monitor the RF output of the UUT. Verify: • UUT shall stop transmission within (T + 60 seconds) of completion of step 3	☒	☐

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Plots:



Plot 11. Conducted Measurement – RF transmission stops within 60s of SAS heartbeat response (Marker 1) (WINNF.FT.C.HBT.3)

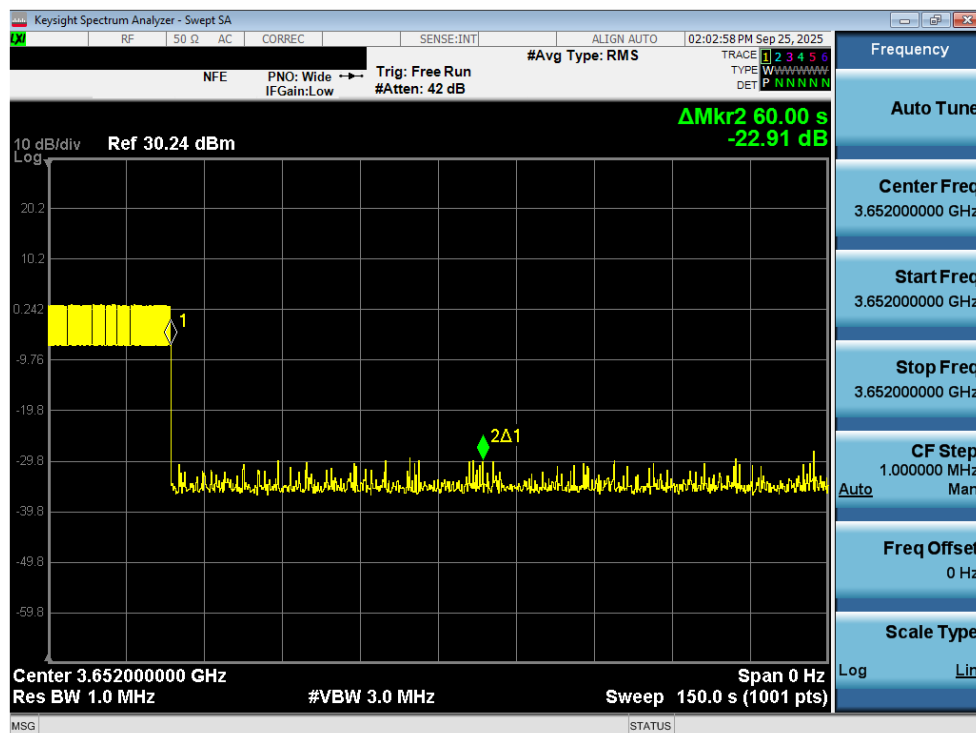
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 26 of 59

A12 [WINNF.FT.C.HBT.4] Heartbeat responseCode=500 (TERMINATED_GRANT)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdId = C • grantId = G • operationState = "AUTHORIZED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = T = Current UTC time • responseCode = 500 (TERMINATED_GRANT)	--	--
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.	--	--
5	Monitor the RF output of the UUT. Verify: • UUT shall stop transmission within (T + 60 seconds) of completion of step 3	☒	☐

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Test Plots:



Plot 12. Conducted Measurement – RF transmission stops within 60s of SAS heartbeat response (Marker 1) (WINNF.FT.C.HBT.4)

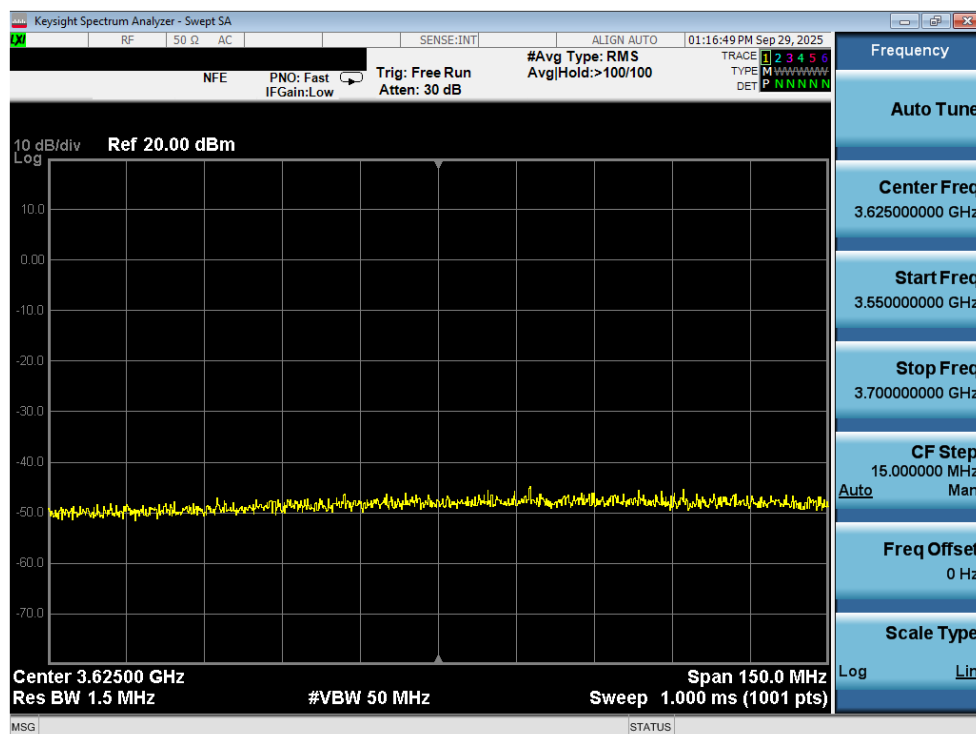
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A13 [WINNF.FT.C.HBT.5] Heartbeat responseCode=501 (SUSPENDED_GRANT) in First Heartbeat Response

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdId = C • grantId = G • operationState = "GRANTED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = T = Current UTC time • responseCode = 501 (SUSPENDED_GRANT)	--	--
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.	--	--
5	Monitor the SAS-CBSD interface. Verify either A OR B occurs: A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters: • cbsdId = C • grantId = G • operationState = "GRANTED" B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: • cbsdId = C • grantId = G Monitor the RF output of the UUT. Verify: • UUT does not transmit at any time	☒	☐

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Test Plots:



Plot 13. Conducted Measurement – No RF transmission in entire band at any time (WINNF.FT.C.HBT.5)

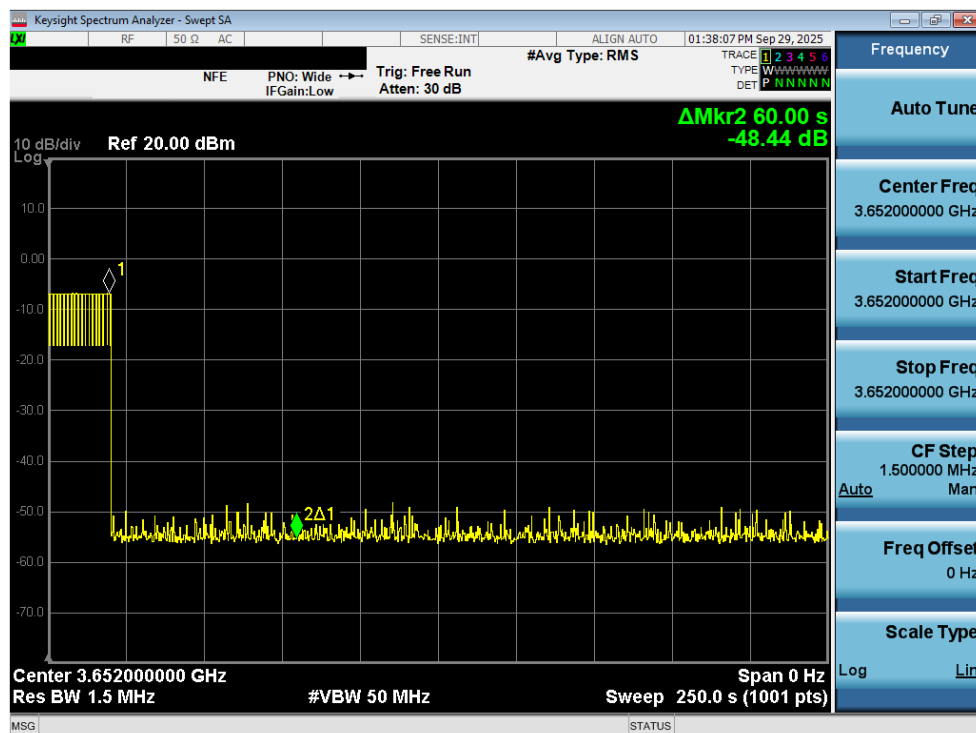
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A14 [WINNF.FT.C.HBT.6] Heartbeat responseCode=501 (SUSPENDED_GRANT) in Subsequent Heartbeat Response

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdId = C • grantId = G • operationState = "AUTHORIZED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = T = Current UTC time • responseCode = 501 (SUSPENDED_GRANT)	--	--
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.	--	--
5	Monitor the SAS-CBSD interface. Verify either A OR B occurs: A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters: • cbsdId = C • grantId = G • operationState = "GRANTED" B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: • cbsdId = C • grantId = G Monitor the RF output of the UUT. Verify: • UUT shall stop transmission within (T + 60 seconds) of completion of step 3	☒	☐

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Plot 14. Conducted Measurement – RF transmission stops within 60s of SAS heartbeat response (Marker 1) (WINNF.FT.C.HBT.6)

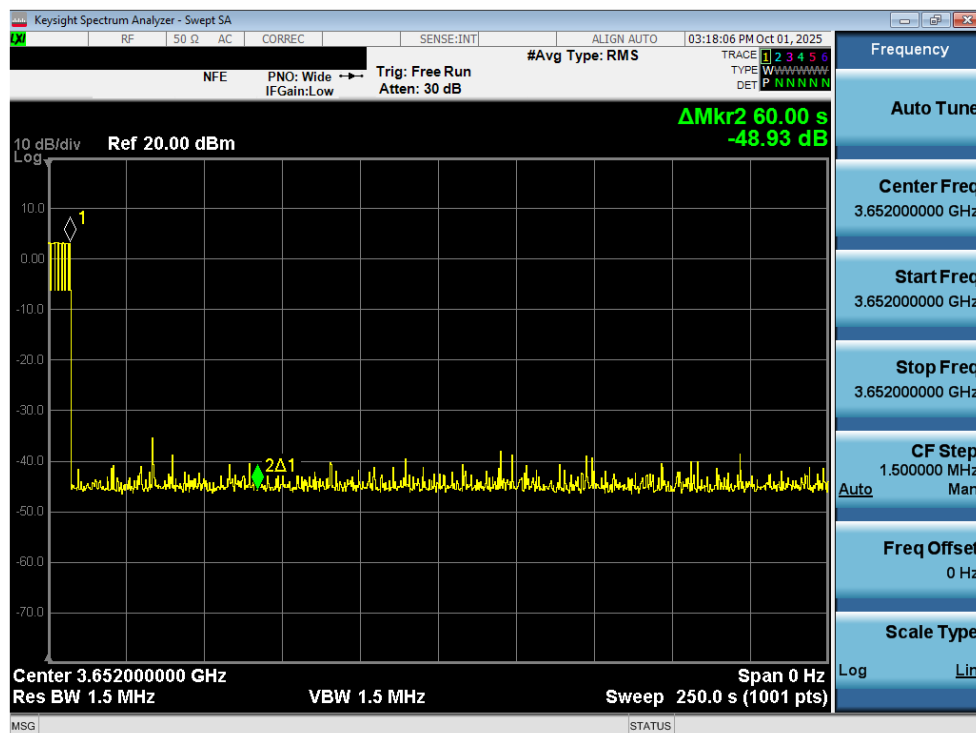
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A15 [WINNF.FT.C.HBT.7] Heartbeat responseCode=502 (UNSYNC_OP_PARAM)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including: • cbsdId = C • grantId = G • operationState = "AUTHORIZED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = T = Current UTC time • responseCode = 502 (UNSYNC_OP_PARAM)	--	--
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.	--	--
5	Monitor the SAS-CBSD interface. Verify: • UUT sends a Grant Relinquishment Request message. Verify message is correctly formatted with parameters: - o cbsdId = C - o grantId = G Monitor the RF output of the UUT. Verify: • UUT shall stop transmission within (T+60) seconds of completion of step 3.	☒	☐

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Plot 15. Conducted Measurement – RF transmission stops within 60s of SAS heartbeat response (Marker 1) (WINNF.FT.C.HBT.7)

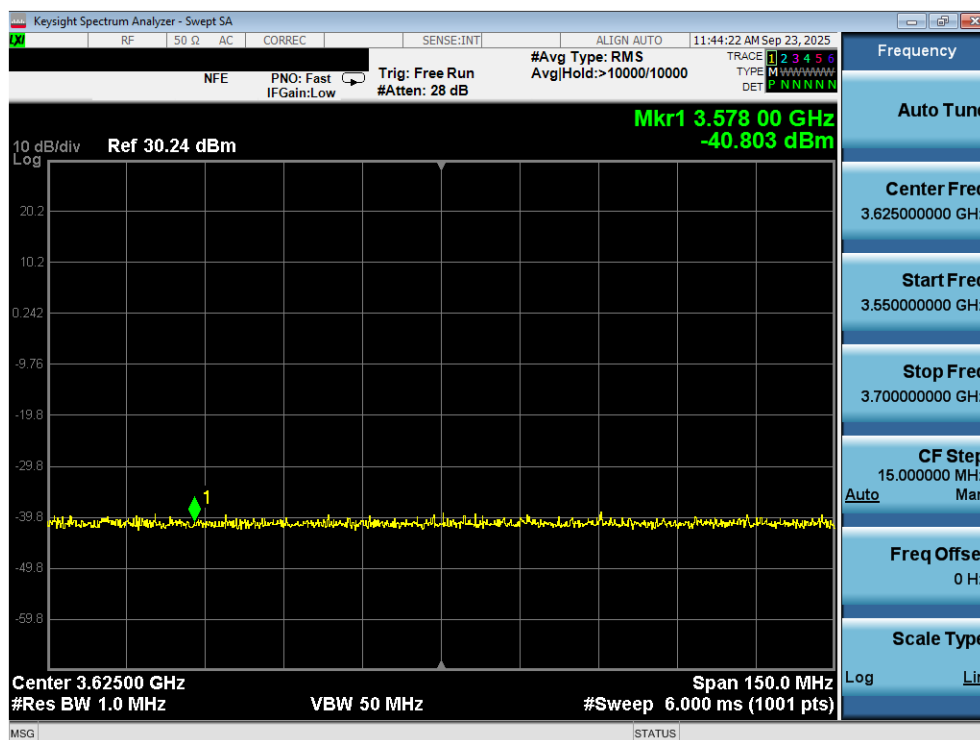
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A16 [WINNF.FT.C.HBT.9] Heartbeat Response Absent (First Heartbeat)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in GRANTED, but not AUTHORIZED state (i.e. has not performed its first Heartbeat Request)	--	--
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdId = C • grantId = G • operationState = "GRANTED"	☒	☐
3	After completion of Step 2, SAS Test Harness does not respond to any further messages from UUT to simulate loss of network connection	--	--
4	Monitor the RF output of the UUT from start of test to 60 seconds after step 3. Verify: • At any time during the test, UUT shall not transmit on RF interface	☒	☐

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Test Plots:



Plot 16. Conducted Measurement – No RF transmission in entire band at anytime (WINNF.FT.C.HBT.9)

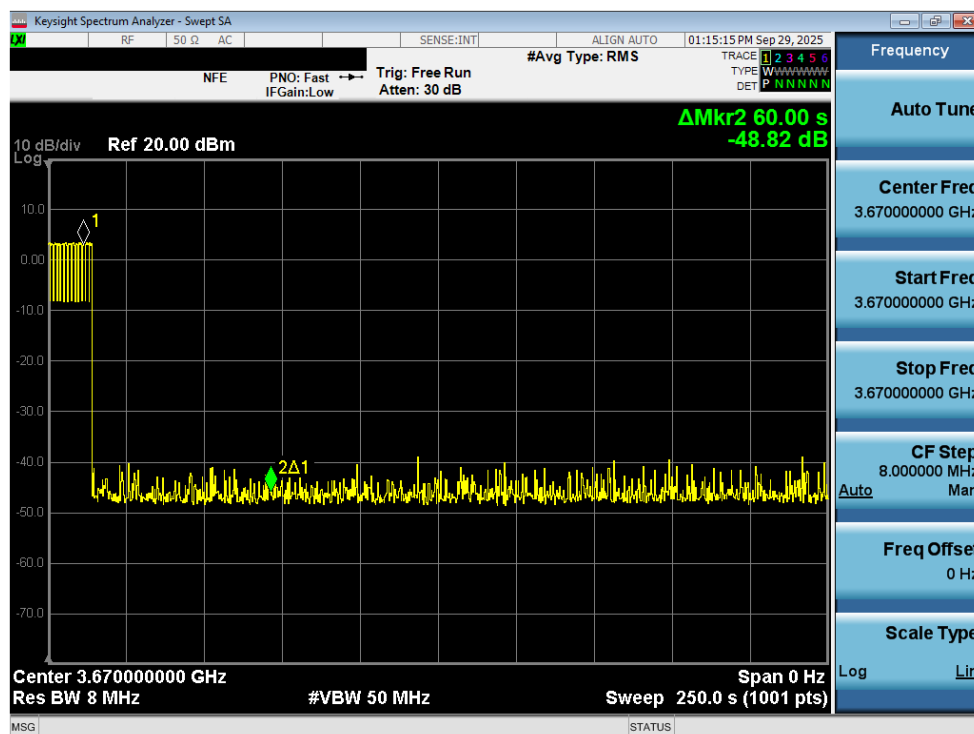
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A17 [WINNF.FT.C.HBT.10] Heartbeat Response Absent (Subsequent Heartbeat)

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has registered successfully with SAS Test Harness • UUT has a valid single grant as follows: - o valid cbsdId = C - o valid grantId = G - o grant is for frequency range F, power P - o grantExpireTime = UTC time greater than duration of the test • UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface	--	--
2	UUT sends a Heartbeat Request message. Verify Heartbeat Request message is sent within the latest specified heartbeatInterval, and is formatted correctly, including: • cbsdId = C • grantId = G • operationState = "AUTHORIZED"	☒	☐
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdId = C • grantId = G • transmitExpireTime = current UTC time + 200 seconds • responseCode = 0	--	--
4	After completion of Step 3, SAS Test Harness does not respond to any further messages from UUT	--	--
5	Monitor the RF output of the UUT. Verify: • UUT shall stop all transmission on RF interface within (transmitExpireTime + 60 seconds), using the transmitExpireTime sent in Step 3.	☒	☐

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Plot 17. Conducted Measurement - RF transmission stops within 60s of SAS heartbeat response (Marker 1) (WINNF.FT.C.HBT.10)

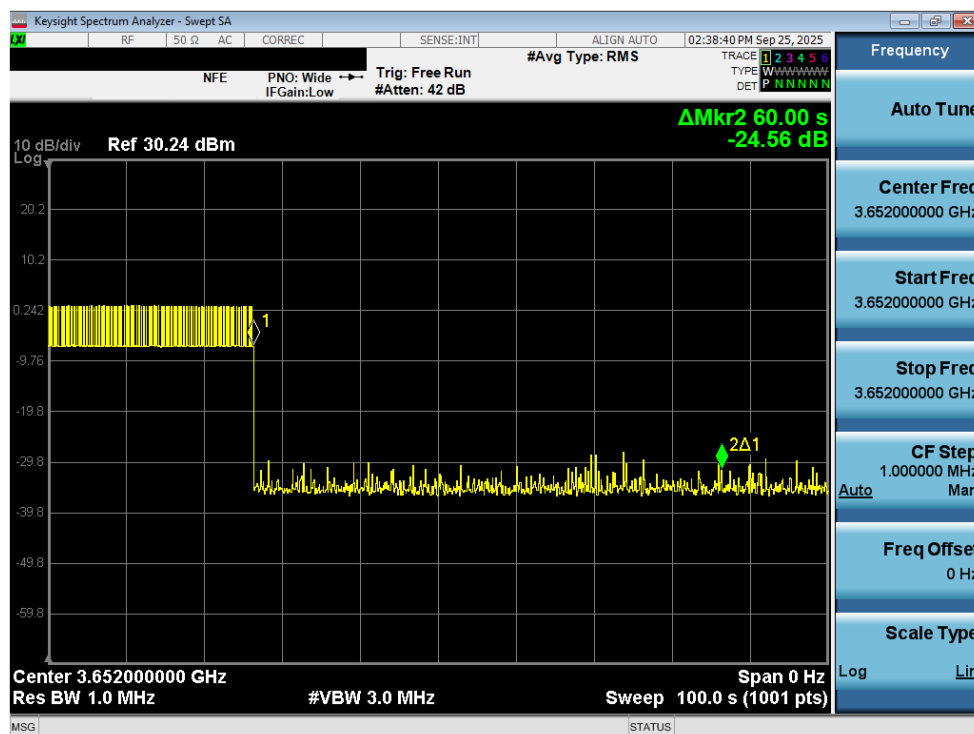
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A18 [WINNF.FT.C.RLQ.1] Successful Relinquishment

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness • UUT has successfully registered with SAS Test Harness, with cbsdId=C • UUT has received a valid grant with grantId = G • UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant. Invoke trigger to relinquish UUT Grant from the SAS Test Harness	--	--
2	UUT sends a Relinquishment Request message. Verify message contains all required parameters properly formatted, and specifically: • cbsdId = C • grantId = G	☒	☐
3	SAS Test Harness shall approve the request with a Relinquishment Response message with parameters: • cbsdId = C • grantId = G • responseCode = 0	--	--
4	After completion of step 3, SAS Test Harness will not provide any additional positive response (responseCode=0) to further request messages from the UUT.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall stop RF transmission at any time between triggering the relinquishment and UUT sending the relinquishment request	☒	☐

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Plot 18. Conducted Measurement – RF transmission stops within 60s of SAS RLQ response (Marker 1) (WINNF.FT.C.RLQ.1)

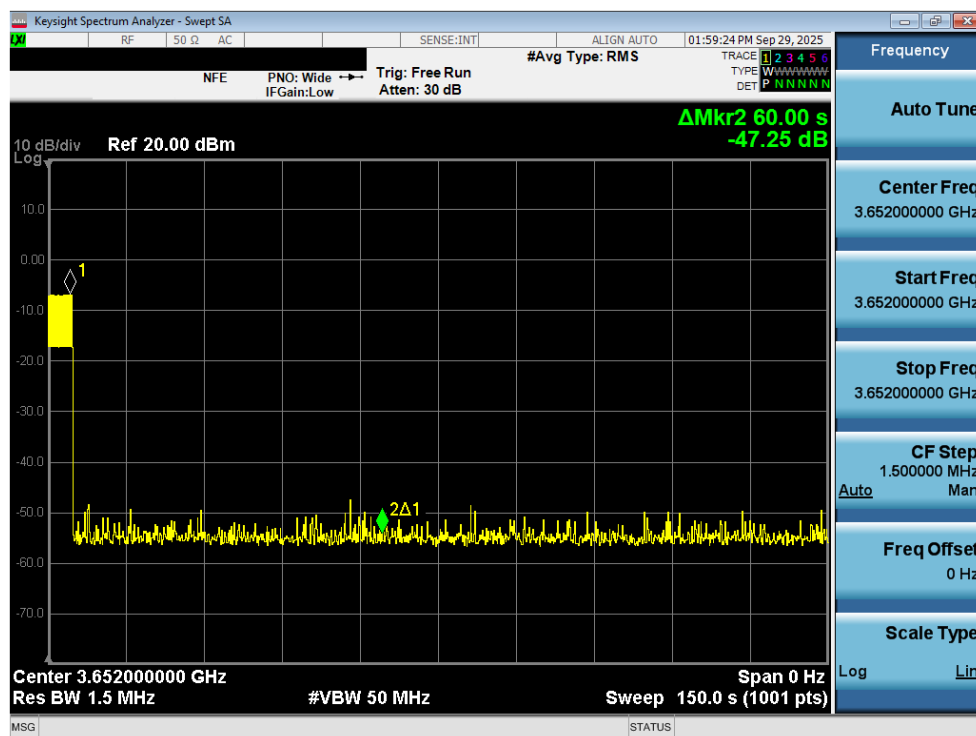
FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A19 [WINNF.FT.C.DRG.1] Successful Deregistration

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness • UUT has successfully registered with SAS Test Harness, with cbsdId=C • UUT has received a valid grant with grantId = G • UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant. Invoke trigger to deregister UUT from the SAS Test Harness	--	--
2	UUT sends a Relinquishment request and receives Relinquishment response with responseCode=0	--	--
3	UUT sends Deregistration Request to SAS Test Harness with cbsdId = C.	☒	☐
4	SAS Test Harness shall approve the request with a Deregistration Response message with parameters: • cbsdId = C • responseCode = 0	--	--
5	After completion of step 3, SAS Test Harness will not provide any additional positive response (responseCode=0) to further request messages from the UUT	--	--
6	Monitor the RF output of the UUT from start of test until 60 seconds after Step 4 is complete. This is the end of the test. Verify: • UUT stopped RF transmission at any time between triggering the deregistration and either A OR B occurs: A. UUT sending a Registration Request message, as this is not mandatory B. UUT sending a Deregistration Request message	☒	☐

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Plot 19. Conducted Measurement – RF transmission stops within 60s of SAS DRG response (Marker 1) (WINNF.FT.C.DRG.1)

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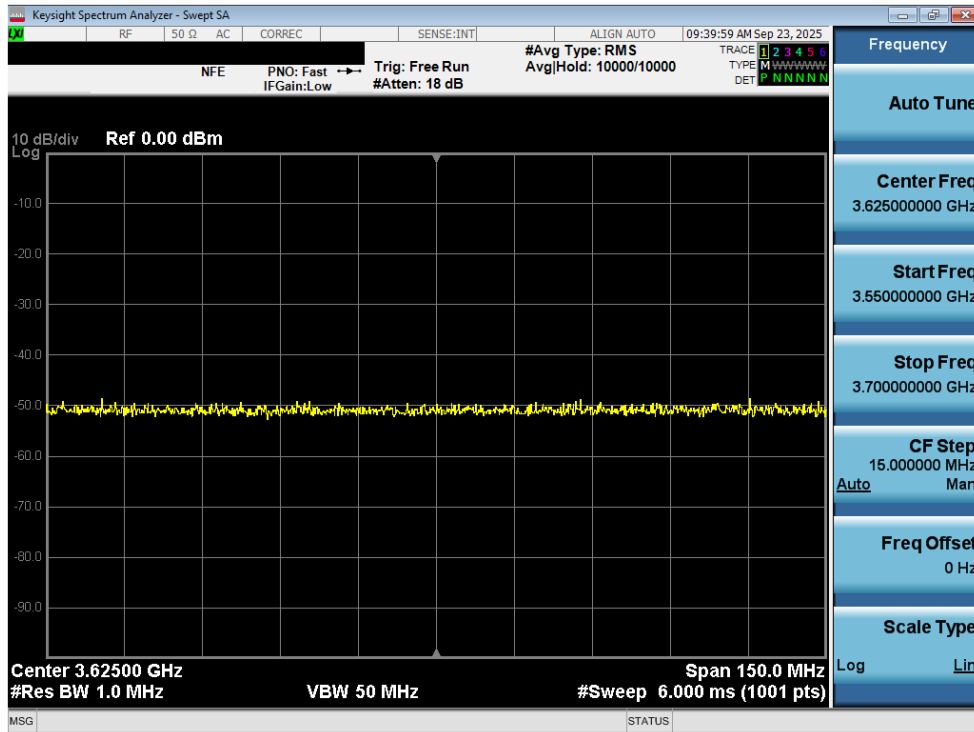
A20 [WINNF.FT.C.SCS.1] Successful TLS connection between UUT and SAS Test Harness

	Test Execution Steps	PASS	FAIL
1	• UUT shall start CBSD-SAS communication with the security procedure • The UUT shall establish a TLS handshake with the SAS Test Harness using configured certificate. • Configure the SAS Test Harness to accept the security procedure and establish the connection	☒	☐
2	• Make sure that Mutual authentication happens between UUT and the SAS Test Harness. • Make sure that UUT uses TLS v1.2 • Make sure that cipher suites from one of the following is selected, • TLS_RSA_WITH_AES_128_GCM_SHA256 • TLS_RSA_WITH_AES_256_GCM_SHA384 • TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 • TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 • TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	☒	☐
3	A successful registration is accomplished using one of the test cases described in section 6.1.4.1, depending on CBSD capability. • UUT sends a registration request to the SAS Test Harness and the SAS Test Harness sends a Registration Response with responseCode = 0 and cbsdId.	☒	☐
4	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

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Plot 20. Conducted Measurement – No Transmission at any time (WINNF.FT.C.SCS.1)

No.	Source	Info	Time	Destination	Protocol	Length
555	173.67.7.85	46980 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1272558945 TSecr=0 WS=512	2025-09-23 16:05:00.294656	173.59.230.213	TCP	
556	173.59.230.213	443 → 46980 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1	2025-09-23 16:05:00.294800	173.67.7.85	TCP	
557	173.67.7.85	46980 → 443 [ACK] Seq=1 Ack=1 Win=29696 Len=0	2025-09-23 16:05:00.302646	173.59.230.213	TCP	
558	173.67.7.85	Client Hello	2025-09-23 16:05:00.302646	173.59.230.213	TLSv1.2	
559	173.59.230.213	Server Hello, Certificate, Certificate Request, Server Hello Done	2025-09-23 16:05:00.303450	173.67.7.85	TLSv1.2	
560	173.67.7.85	46980 → 443 [ACK] Seq=518 Ack=2952 Win=35328 Len=0 [TCP segment of a reassembled PDU]	2025-09-23 16:05:00.310761	173.59.230.213	TCP	
561	173.67.7.85	46980 → 443 [ACK] Seq=518 Ack=2952 Win=35328 Len=1460 [TCP segment of a reassembled PDU]	2025-09-23 16:05:00.310762	173.59.230.213	TCP	
562	173.67.7.85	46980 → 443 [ACK] Seq=1978 Ack=2952 Win=35328 Len=1460 [TCP segment of a reassembled PDU]	2025-09-23 16:05:00.310763	173.59.230.213	TCP	
563	173.67.7.85	Certificate	2025-09-23 16:05:00.310764	173.59.230.213	TLSv1.2	
564	173.59.230.213	443 → 46980 [ACK] Seq=2952 Ack=4778 Win=262656 Len=0	2025-09-23 16:05:00.310800	173.67.7.85	TCP	
565	173.67.7.85	Client Key Exchange, Certificate Verify, Change Cipher Spec, Encrypted Handshake Message	2025-09-23 16:05:00.314384	173.59.230.213	TLSv1.2	
566	173.59.230.213	443 → 46980 [ACK] Seq=2952 Ack=5365 Win=262144 Len=0	2025-09-23 16:05:00.314443	173.67.7.85	TCP	
567	173.59.230.213	Change Cipher Spec, Encrypted Handshake Message	2025-09-23 16:05:00.331606	173.67.7.85	TLSv1.2	
568	173.67.7.85	Application Data	2025-09-23 16:05:00.342016	173.59.230.213	TLSv1.2	
569	173.67.7.85	Application Data	2025-09-23 16:05:00.342016	173.59.230.213	TLSv1.2	
570	173.59.230.213	443 → 46980 [ACK] Seq=3003 Ack=5719 Win=261632 Len=0	2025-09-23 16:05:00.342878	173.67.7.85	TCP	
571	173.59.230.213	Application Data	2025-09-23 16:05:00.349015	173.67.7.85	TLSv1.2	
573	173.67.7.85	46980 → 443 [ACK] Seq=5719 Ack=3852 Win=35328 Len=0	2025-09-23 16:05:00.402548	173.59.230.213	TCP	
574	173.59.230.213	Application Data, Application Data, Application Data, Application Data, Application Data, Application Data	2025-09-23 16:05:00.402615	173.67.7.85	TLSv1.2	
575	173.67.7.85	46980 → 443 [ACK] Seq=5719 Ack=3984 Win=30400 Len=0	2025-09-23 16:05:00.410498	173.59.230.213	TCP	
576	173.67.7.85	46990 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1272557859 TSecr=0 WS=512	2025-09-23 16:05:00.410499	173.59.230.213	TCP	

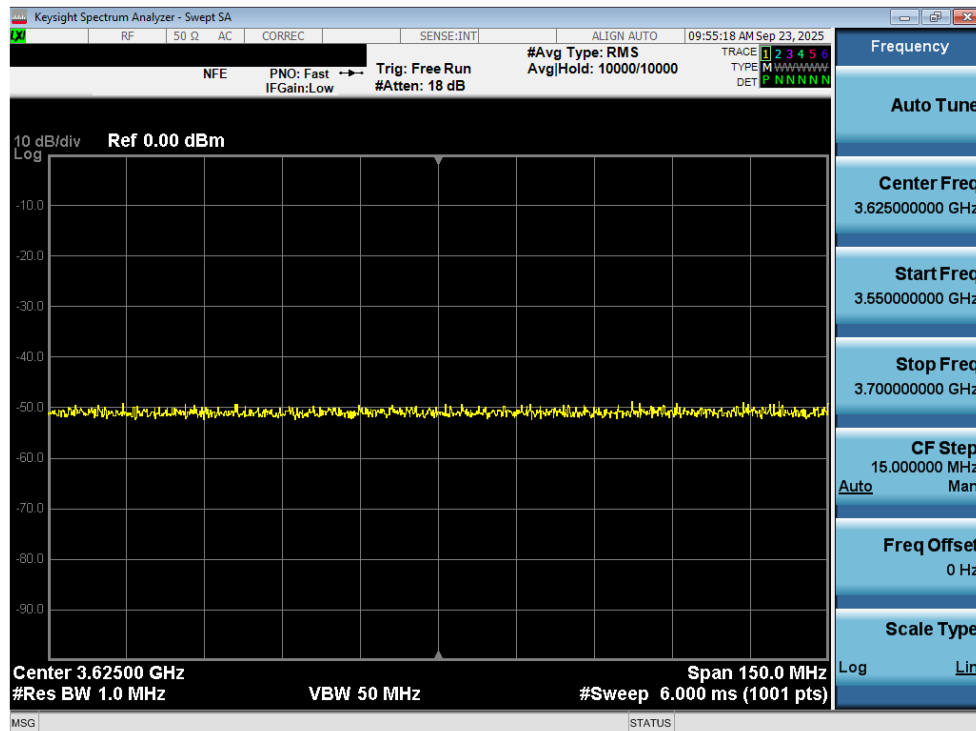
Plot 21. WireShark Screenshot – Successful Handshake (WINNF.FT.C.SCS.1)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 44 of 59

A21 [WINNF.FT.C.SCS.2] TLS failure due to revoked certificate

	Test Execution Steps	PASS	FAIL
1	• UUT shall start CBSD-SAS communication with the security procedure	☒	☐
2	• Make sure that UUT uses TLS v1.2 for security establishment. • Make sure UUT selects the correct cipher suite. • UUT shall use CRL or OCSP to verify the validity of the server certificate. • Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness	☒	☐
3	UUT may retry for the security procedure which shall fail	☒	☐
4	SAS Test-Harness shall not receive any Registration request or any application data.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



Plot 22. Conducted Measurement – No Transmission at any time (WINNF.FT.C.SCS.2)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 45 of 59



No.	Source	Info	Time	Destination	Protocol	Length
121	173.67.7.85	33378 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1273487745 TSecr=0 WS=512	2025-09-23 16:20:39.088746	173.59.230.213	TCP	74
122	173.59.230.213	443 → 33378 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1	2025-09-23 16:20:39.088895	173.67.7.85	TCP	66
123	173.67.7.85	33378 → 443 [ACK] Seq=1 Ack=1 Win=29696 Len=0	2025-09-23 16:20:39.090866	173.59.230.213	TCP	60
124	173.67.7.85	Client Hello	2025-09-23 16:20:39.100899	173.59.230.213	TLShv1.2	571
125	173.59.230.213	Server Hello, Certificate, Certificate Request, Server Hello Done	2025-09-23 16:20:39.101202	173.67.7.85	TLShv1.2	3009
126	173.67.7.85	33378 → 443 [ACK] Seq=518 Ack=2956 Win=35328 Len=0	2025-09-23 16:20:39.100863	173.59.230.213	TCP	60
127	173.67.7.85	Alert (Level: Fatal, Description: Unknown CA)	2025-09-23 16:20:39.100864	173.59.230.213	TLShv1.2	81
128	173.67.7.85	33378 → 443 [RST, ACK] Seq=523 Ack=2956 Win=35328 Len=0	2025-09-23 16:20:39.100865	173.59.230.213	TCP	74

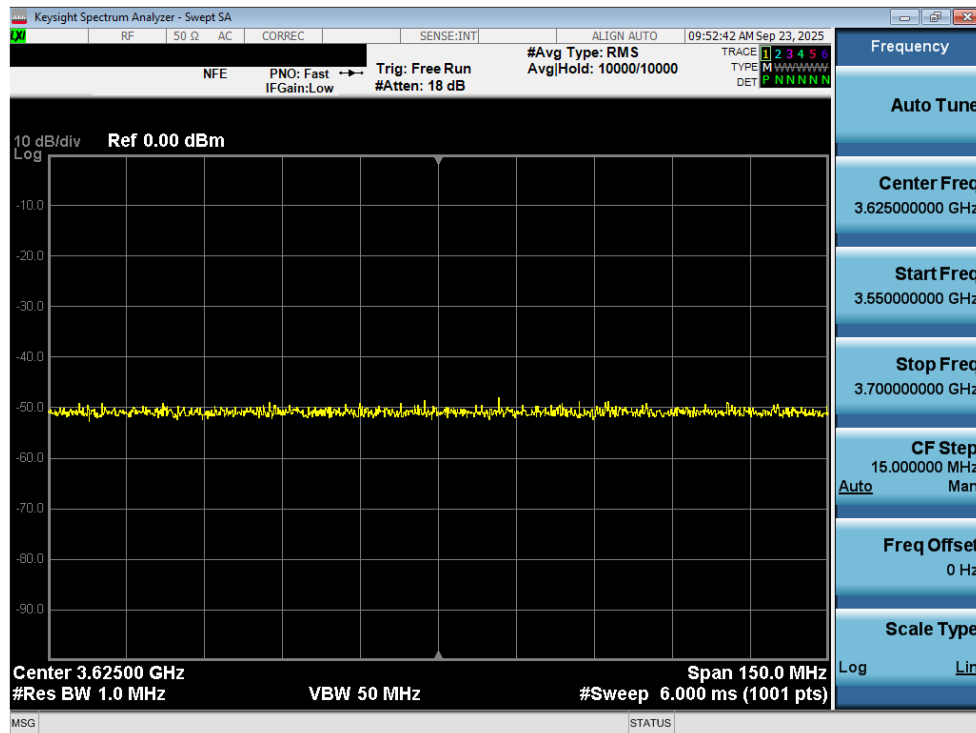
Plot 23.WireShark Screenshot 1 - Failed Handshake (WINNF.FT.C.SCS.2)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 46 of 59

A22 [WINNF.FT.C.SCS.3] TLS failure due to expired server certificate

	Test Execution Steps	PASS	FAIL
1	• UUT shall start CBSD-SAS communication with the security procedure	☒	☐
2	• Make sure that UUT uses TLS v1.2 for security establishment. • Make sure UUT selects the correct cipher suite. • UUT shall use CRL or OCSP to verify the validity of the server certificate. • Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.	☒	☐
3	UUT may retry for the security procedure which shall fail	☒	☐
4	SAS Test-Harness shall not receive any Registration request or any application data.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



Plot 24. Conducted Measurement – No Transmission at any time (WINNF.FT.C.SCS.3)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 47 of 59



No.	Source	Info	Time	Destination	Protocol	Length
882	173.67.7.85	56798 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1273367705 TSecr=0 WS=512	2025-09-23 16:18:39.842783	173.59.230.213	TCP	74
883	173.59.230.213	443 → 56798 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1	2025-09-23 16:18:39.842899	173.67.7.85	TCP	66
884	173.67.7.85	56798 → 443 [ACK] Seq=1 Ack=1 Win=29696 Len=0	2025-09-23 16:18:39.846474	173.59.230.213	TCP	60
885	173.67.7.85	Client Hello	2025-09-23 16:18:39.858016	173.59.230.213	TLSv1.2	571
886	173.59.230.213	Server Hello, Certificate, Certificate Request, Server Hello Done	2025-09-23 16:18:39.851072	173.67.7.85	TLSv1.2	3805
887	173.67.7.85	56798 → 443 [ACK] Seq=518 Ack=2952 Win=35328 Len=0	2025-09-23 16:18:39.858768	173.59.230.213	TCP	60
888	173.67.7.85	Alert (Level: Fatal, Description: Certificate Expired)	2025-09-23 16:18:39.858768	173.59.230.213	TLSv1.2	61
889	173.67.7.85	56798 → 443 [RST, ACK] Seq=529 Ack=2952 Win=35328 Len=0	2025-09-23 16:18:39.858769	173.59.230.213	TCP	60

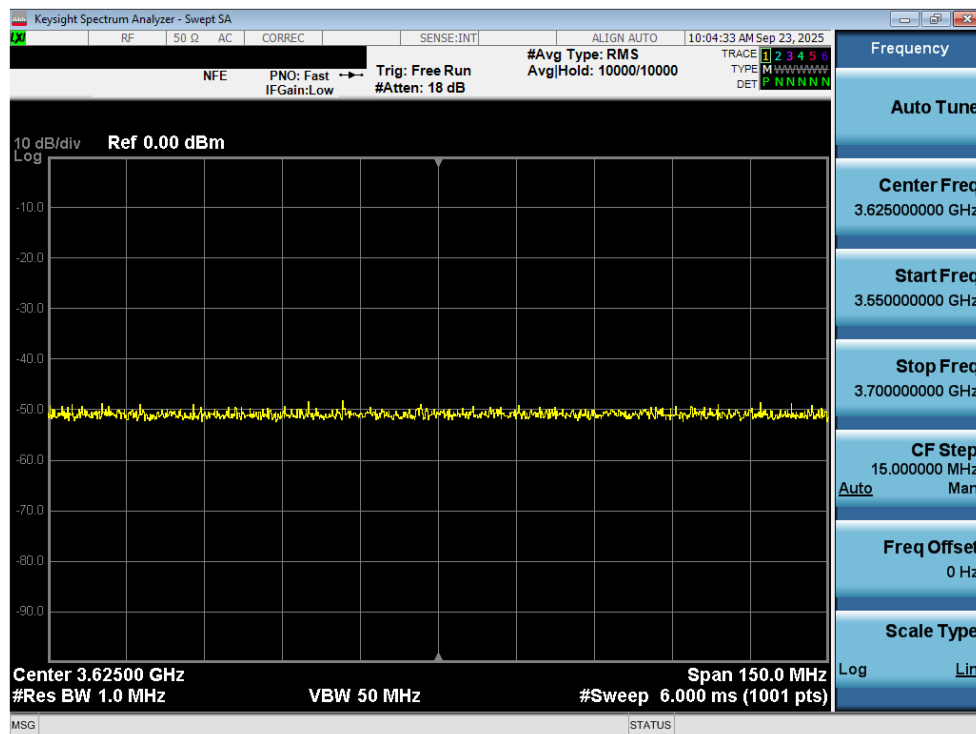
Plot 25.WireShark Screenshot - Failed Handshake (WINNF.FT.C.SCS.3)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 48 of 59

A23 [WINNF.FT.C.SCS.4] TLS failure when SAS Test Harness certificate is issued by an unknown CA

	Test Execution Steps	PASS	FAIL
1	• UUT shall start CBSD-SAS communication with the security procedure	☒	☐
2	• Make sure that UUT uses TLS v1.2 for security establishment. • Make sure UUT selects the correct cipher suite. • UUT shall use CRL or OCSP to verify the validity of the server certificate. • Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.	☒	☐
3	UUT may retry for the security procedure which shall fail	☒	☐
4	SAS Test-Harness shall not receive any Registration request or any application data.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



Plot 26. Conducted Measurement – No Transmission at any time (WINNF.FT.C.SCS.4)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 49 of 59



No.	Source	Info	Time	Destination	Protocol	Length
236	173.67.7.85	37462 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1273607799 TSecr=0 WS=512	2025-09-23 16:22:39.139223	173.59.230.213	TCP	74
237	173.59.230.213	443 → 37462 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1	2025-09-23 16:22:39.139355	173.67.7.85	TCP	66
238	173.67.7.85	37462 → 443 [ACK] Seq=1 Ack=1 Win=29696 Len=0	2025-09-23 16:22:39.140310	173.59.230.213	TCP	60
239	173.67.7.85	Client Hello	2025-09-23 16:22:39.152711	173.59.230.213	TLSh1.2	571
240	173.59.230.213	Server Hello, Certificate, Certificate Request, Server Hello Done	2025-09-23 16:22:39.152992	173.67.7.85	TLSh1.2	3009
241	173.67.7.85	37462 → 443 [ACK] Seq=518 Ack=2956 Win=35328 Len=0	2025-09-23 16:22:39.159315	173.59.230.213	TCP	60
242	173.67.7.85	Alert (Level: Fatal, Description: Unknown CA)	2025-09-23 16:22:39.159316	173.59.230.213	TLSh1.2	81
243	173.67.7.85	37462 → 443 [ACK] Seq=529 Ack=2956 Win=35328 Len=0	2025-09-23 16:22:39.159316	173.59.230.213	TCP	60

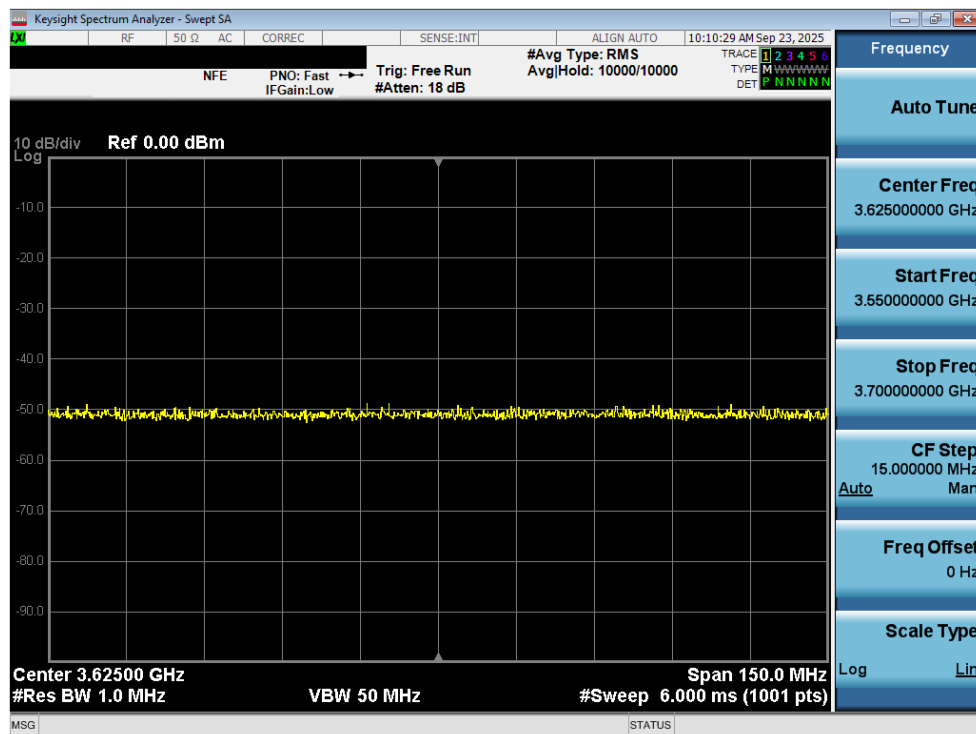
Plot 27. WireShark Screenshot - Failed Handshake (WINNF.FT.C.SCS.4)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 50 of 59

A24 [WINNF.FT.C.SCS.5] TLS failure when certificate at the SAS Test Harness is corrupted

	Test Execution Steps	PASS	FAIL
1	• UUT shall start CBSD-SAS communication with the security procedure	☒	☐
2	• Make sure that UUT uses TLS v1.2 for security establishment. • Make sure UUT selects the correct cipher suite. • UUT shall use CRL or OCSP to verify the validity of the server certificate. • Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.	☒	☐
3	UUT may retry for the security procedure which shall fail	☒	☐
4	SAS Test-Harness shall not receive any Registration request or any application data.	--	--
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	☒	☐

Test Plots:



Plot 28. Conducted Measurement – No Transmission at any time (WINNF.FT.C.SCS.5)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 51 of 59



No.	Source	Info	Time	Destination	Protocol	Length
316	173.67.7.85	51722 → 443 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1273727833 TSecr=0 WS=512	2025-09-23 16:24:39.169047	173.59.230.213	TCP	78
317	173.59.230.213	443 → 51722 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1	2025-09-23 16:24:39.169248	173.67.7.85	TCP	66
318	173.67.7.85	51722 → 443 [ACK] Seq=1 Ack=1 Win=29696 Len=0	2025-09-23 16:24:39.180193	173.59.230.213	TCP	60
319	173.67.7.85	Client Hello	2025-09-23 16:24:39.180195	173.59.230.213	TLSv1.2	571
320	173.59.230.213	Server Hello, Certificate, Certificate Request, Server Hello Done	2025-09-23 16:24:39.181043	173.67.7.85	TLSv1.2	3005
321	173.67.7.85	51722 → 443 [ACK] Seq=518 Ack=2952 Win=35328 Len=0	2025-09-23 16:24:39.187576	173.59.230.213	TCP	60
322	173.67.7.85	Alert (Level: Fatal, Description: Decrypt Error)	2025-09-23 16:24:39.187577	173.59.230.213	TLSv1.2	61
323	173.67.7.85	51722 → 443 [RST, ACK] Seq=525 Ack=2952 Win=35328 Len=0	2025-09-23 16:24:39.187578	173.59.230.213	TCP	60

Plot 29.WireShark Screenshot - Failed Handshake (WINNF.FT.C.SCS.5)

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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A25 [WINNF.PT.C.HBT.1] UUT RF Transmit Power Measurement

	Test Execution Steps	PASS	FAIL
1	Ensure the following conditions are met for test entry: • UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness • UUT has registered with the SAS, with CBSID = C • UUT has a single valid grant G with parameters {lowFrequency = FL, highFrequency = FH, maxEirp = Pi}, with grant in AUTHORIZED state, and grantExpireTime set to a value far past the duration of this test case <i>Note: in order for the UUT to request a grant with the parameters {lowFrequency, highFrequency, maxEirp}, the SAS Test Harness may need to provide appropriate guidance in the availableChannel object of the spectrumInquiry response message, and the operationParam object of the grant response message. Alternately, the UUT vendor may provide the ability to set those parameters on the UUT so that the UUT will request a grant with those parameters.</i>	--	--
2	UUT and SAS Test Harness perform a series of Heartbeat Request/Response cycles, which continues until the other test steps are complete. Messaging for each cycle is as follows: • UUT sends Heartbeat Request, including: - o cbsId = C - o grantId = G • SAS Test Harness responds with Heartbeat Response, including: - o cbsId = C - o grantId = G - o transmitExpireTime = current UTC time + 200 seconds - o responseCode = 0	--	--
3	Tester performs power measurement on RF interface(s) of UUT, and verifies it complies with the maxEirp setting, Pi. The RF measurement method is out of scope of this document, but may include additional configuration of the UUT, as required, to fulfil the requirements of the power measurement method. <i>Note: it may be required for the vendor to provide a method or configuration to bring the UUT to a mode which is required by the measurement methodology. Any such mode is vendor-specific and depends upon UUT behavior and the measurement methodology.</i>	☒	☐

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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RF Power Measurements:

Testing is performed per KDB 971168 D01 and across the transmit dynamic range of 18dBm/MHz to 16dBm/MHz for 20MHz Bandwidth.

MIMO conducted PSD was found by measuring the output of both ports and summing the results

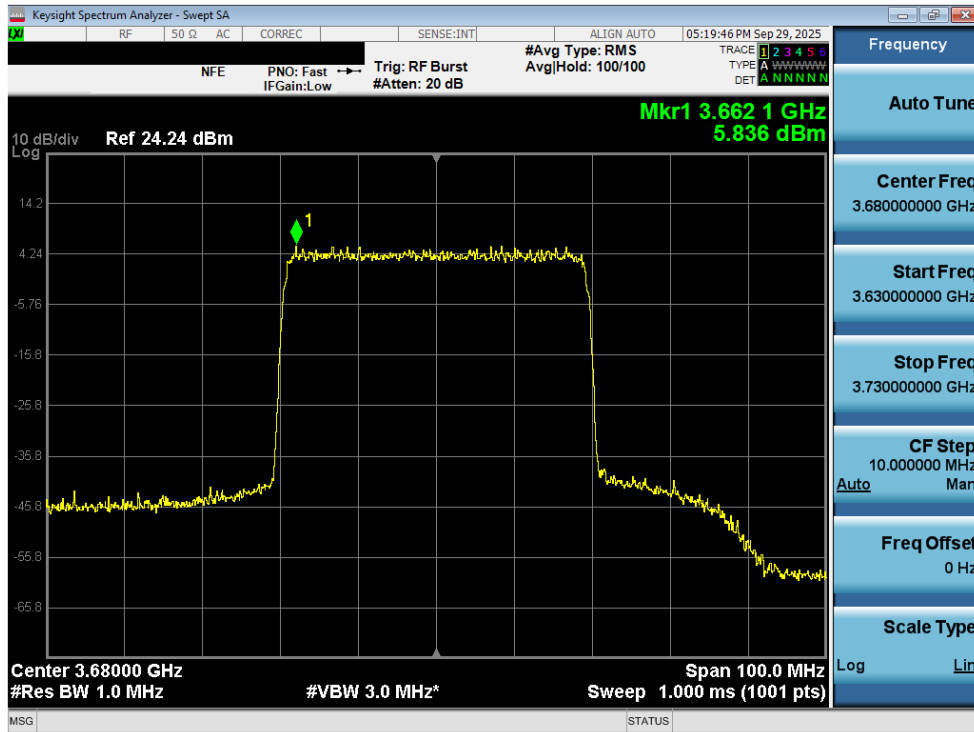
The outputs of the UUT are cross polarized. EIRP PSD is found by adding the directional antenna gain supplied by the manufacturer (8dBi) to the conducted PSD level.

Frequency [MHz]	ANT1 Conducted PSD [dBm/MHz]	ANT2 Conducted PSD [dBm/MHz]	MIMO Conducted PSD [dBm/MHz]	Directional Antenna Gain [dBi]	EIRP PSD [dBm/MHz]	Granted EIRP [dBm/MHz]	Margin [dB]
3680	5.84	6.22	9.04	8.00	17.04	18.00	-0.96
	5.95	5.57	8.78	8.00	16.78	17.00	-0.22
	4.90	4.20	7.58	8.00	15.58	16.00	-0.42

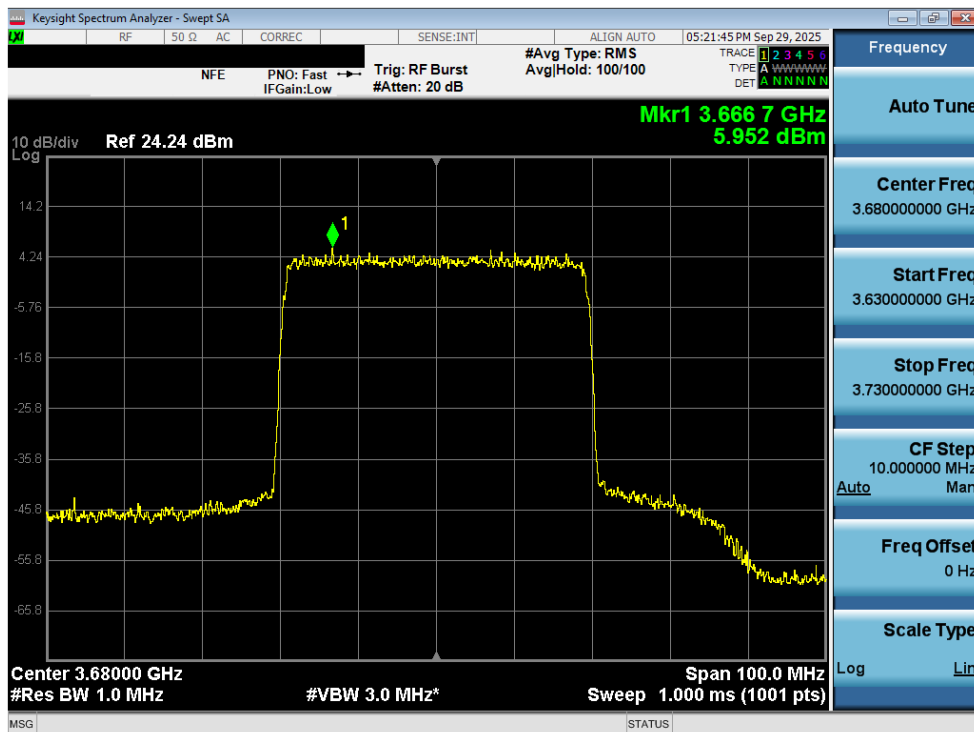
Table 7-1 RF Output Power Measurements (WINNF.PT.C.HBT.1) – NR

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Plots:

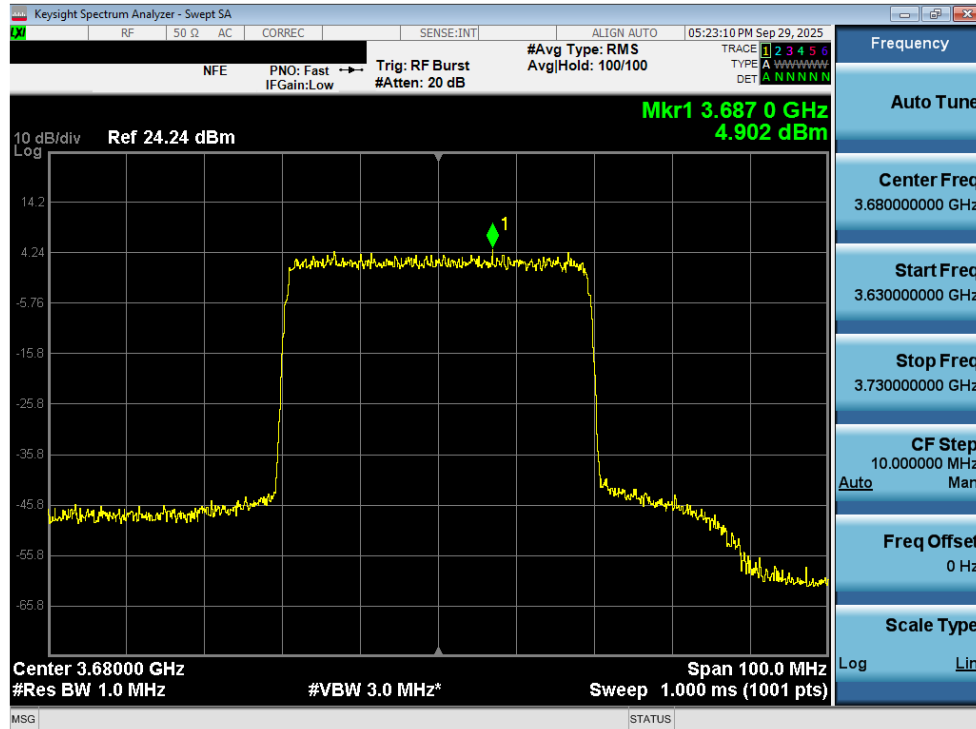


Plot 30. Conducted PSD, SAS Granted maxEIRP 18 – NR ANT1

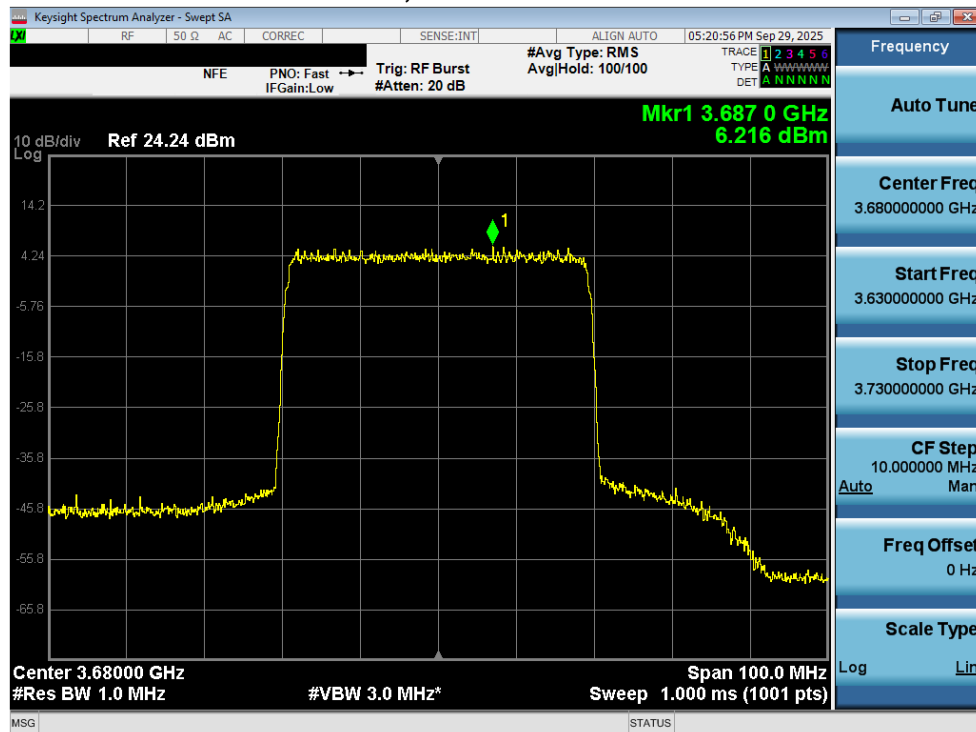


Plot 31. Conducted PSD, SAS Granted maxEIRP 17 – NR ANT1

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 55 of 59

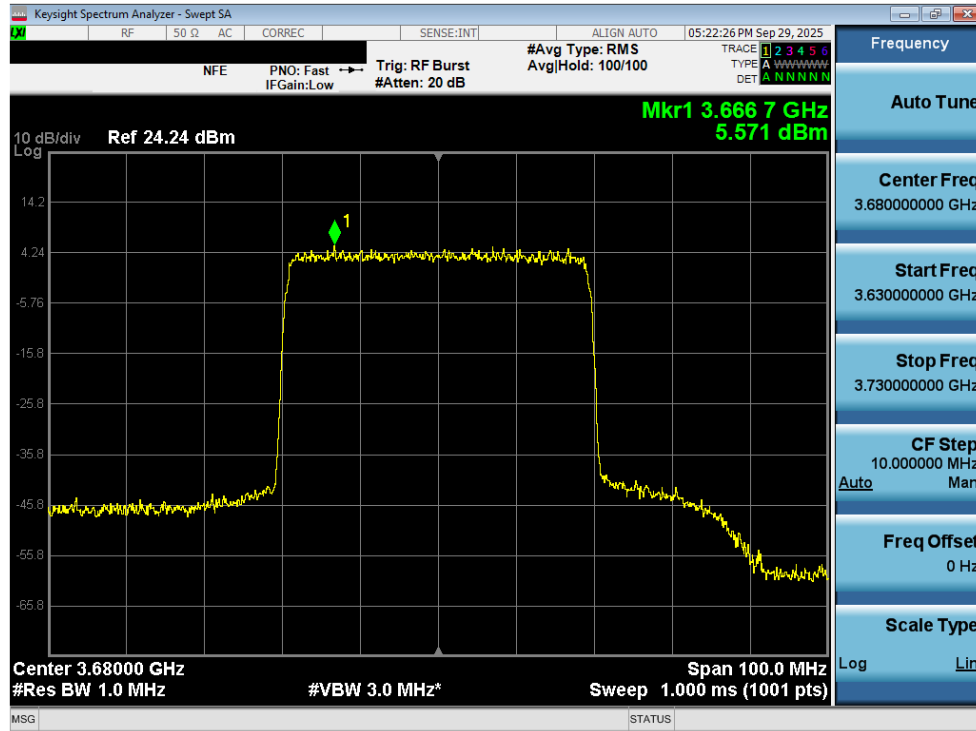


Plot 32. Conducted PSD, SAS Granted maxEIRP 16 – NR ANT1

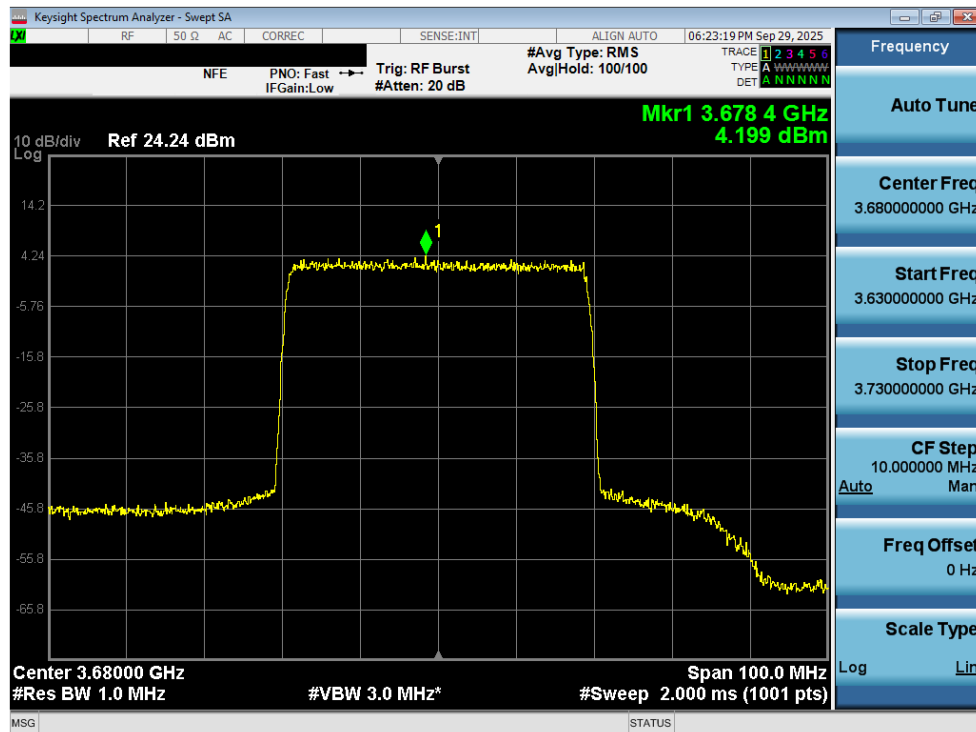


Plot 33. Conducted PSD, SAS Granted maxEIRP 18 – NR ANT2

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 56 of 59



Plot 34. Conducted PSD, SAS Granted maxEIRP 17 – NR ANT2



Plot 35. Conducted PSD, SAS Granted maxEIRP 16 – NR ANT2

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 57 of 59

APPENDIX B – TEST LOGS

Logs are available upon request

- END OF TEST REPORT -

FCC ID: 2BR8Z-ER2035A	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508040072-02-R1.2BR8Z	Test Dates: 9/18/2025 – 10/1/2025	EUT Type: Small Cell Radio Unit	Page 58 of 59