

CBSD Test Report

Report No.: RFBEIH-WTW-P24110374

FCC ID: P27-SCE5172N48

Test Model: SCE5172-n48

Received Date: Nov. 19, 2024

Test Date: Nov. 28, 2024 ~ Dec. 25, 2024

Issued Date: Mar. 07, 2025

Applicant: Sercomm Corp.

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FCC Registration/

Designation Number: 788550 / TW0003





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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P24110374	Original release	Mar. 07, 2025



1 Certificate of Conformity

Product: Moso Canopy 5GID2, QuadBridge mini

Brand: Mosolabs, Moso Networks, Sercomm

Test Model: SCE5172-n48

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Nov. 28, 2024 ~ Dec. 25, 2024

Standards: WINNF-TS-0122 V1.0.2

ONGO-TS-9001 V1.3.0

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :	101.10	_ , Date:	Mar. 07, 2025
	Pettie Chen / Senior Specialist		

Jeremy Lin / Project Engineer

Detre Chen



2 Summary of Test Results

WINNF-TS-0122			
Classes	Test Case Items	Pass Items	Pass Rate (%)
FT(CBSD, DP/CBSD)	27	27	100
PT(CBSD, DP/CBSD)	1	1	100
Total	28	28	100

Note:

- 1. Functional Test (FT): Test to validate the conformance of the Protocols and functionalities implemented in the CBSD/DP UUT to the requirements developed by WInnForum and supporting FCC/DoD requirements.
- 2. Field/Performance Test (PT): Test to check the capability of the CBSD/DP UUT to support various traffic models and actual operations in the field.

Supported Features in details:

cupported i catalice in detaile.				
	WINNF-TS-0122 Test Case			
Definitions	Test Case ID	Supported		
C1	WINNF.FT.C.REG.1 Yes			
C2	2 WINNF.FT.C.REG.3 Yes			
C3	WINNF.FT.C.REG.5 Yes			
C4	NA	No		
C5	NA	No		
C6	NA	No		



WINNF-TS-0122 Test Case			
Section	Test Case ID	Test Case Title	Test Result
6.1.4.1.1	WINNF.FT.C.REG.1	Multi-Step registration	Pass
6.1.4.1.2	WINNF.FT.D.REG.2	Domain Proxy Multi-Step registration	NA
6.1.4.1.3	WINNF.FT.C.REG.3	Single-Step registration for Category A CBSD	Pass
6.1.4.1.4	WINNF.FT.D.REG.4	Domain Proxy Single-Step registration for Cat A CBSD	NA
6.1.4.1.5	WINNF.FT.C.REG.5	Single-Step registration for CBSD with CPI signed data	Pass
6.1.4.1.6	WINNF.FT.D.REG.6	Domain Proxy Single-Step registration for CBSD with CPI signed data	NA
6.1.4.1.7	WINNF.FT.C.REG.7	Registration due to change of an installation parameter	NA
6.1.4.2.1	WINNF.FT.C.REG.8	Missing Required parameters (responseCode 102)	Pass
6.1.4.2.2	WINNF.FT.D.REG.9	Domain Proxy Missing Required parameters (responseCode 102)	NA
6.1.4.2.3	WINNF.FT.C.REG.10	Pending registration (responseCode 200)	Pass
6.1.4.2.4	WINNF.FT.D.REG.11	Domain Proxy Pending registration (responseCode 200)	NA
6.1.4.2.5	WINNF.FT.C.REG.12	Invalid parameter (responseCode 103)	Pass
6.1.4.2.6	WINNF.FT.D.REG.13	Domain Proxy Invalid parameters (responseCode 103)	NA
6.1.4.2.7	WINNF.FT.C.REG.14	Blacklisted CBSD (responseCode 101)	Pass
6.1.4.2.8	WINNF.FT.D.REG.15	Domain Proxy Blacklisted CBSD (responseCode 101)	NA
6.1.4.2.9	WINNF.FT.C.REG.16	Unsupported SAS protocol version (responseCode 100)	Pass
6.1.4.2.10	WINNF.FT.D.REG.17	Domain Proxy Unsupported SAS protocol version responseCode 100)	NA
6.1.4.2.11	WINNF.FT.C.REG.18	Group Error (responseCode 201)	Pass
6.1.4.2.12	WINNF.FT.D.REG.19	Domain Proxy Group Error (responseCode 201)	NA
6.1.4.3.1	WINNF.FT.C.REG.20	Category A CBSD location update	Pass



WINNF-TS-0122 Test Case			
Section	Test Case ID	Test Case Title	Test Result
6.3.4.2.1	WINNF.FT.D.GRA.1	Unsuccessful Grant responseCode=400 (INTERFERENCE)	Pass
6.3.4.2.2	WINNF.FT.C.GRA.2	Unsuccessful Grant responseCode=401 (GRANT_CONFLICT)	Pass
6.4.4.1.1	WINNF.FT.C.HBT.1	Heartbeat Success Case (first Heartbeat Response)	Pass
6.4.4.1.2	WINNF.FT.D.HBT.2	Domain Proxy Heartbeat Success Case (first Heartbeat Response)	NA
6.4.4.2.1	WINNF.FT.C.HBT.3	Heartbeat responseCode=105 (DEREGISTER)	Pass
6.4.4.2.2	WINNF.FT.C.HBT.4	Heartbeat responseCode=500 (TERMINATED_GRANT)	Pass
6.4.4.2.3	WINNF.FT.C.HBT.5	Heartbeat responseCode=501 (SUSPENDED_GRANT) in First Heartbeat Response	Pass
6.4.4.2.4	WINNF.FT.C.HBT.6	Heartbeat responseCode=501 (SUSPENDED_GRANT) in Subsequent Heartbeat Response	Pass
6.4.4.2.5	WINNF.FT.C.HBT.7	Heartbeat responseCode=502 (UNSYNC_OP_PARAM)	Pass
6.4.4.2.6	WINNF.FT.D.HBT.8	Domain Proxy Heartbeat responseCode=500 (TEMINATED_GRANT)	NA
6.4.4.3.1	WINNF.FT.C.HBT.9	Heartbeat Response Absent (First Heartbeat)	Pass
6.4.4.3.2	WINNF.FT.C.HBT.10	Heartbeat Response Absent (Subsequent Heartbeat)	Pass
6.4.4.4.1	WINNF.FT.C.HBT.11	Successful Grant Renewal in Heartbeat Test Case	NA
6.5.4.2.1	WINNF.FT.C.MES.1	Registration Response contains measReportConfig	NA
6.5.4.2.2	WINNF.FT.D.MES.2	Domain Proxy Registration Response contains measReportConfig	NA
6.5.4.2.3	WINNF.FT.C.MES.3	Grant Response contains measReportConfig	NA
6.5.4.2.4	WINNF.FT.C.MES.4	Heartbeat Response contains measReportConfig	NA
6.5.4.2.5	WINNF.FT.D.MES.5	Domain Proxy Heartbeat Response contains measReportConfig	NA



WINNF-TS-0122 Test Case			
Section	Test Case ID	Test Case Title	Test Result
6.6.4.1.1	WINNF.FT.C.RLQ.1	Successful Relinquishment	Pass
6.6.4.1.2	WINNF.FT.D.RLQ.2	Domain Proxy Successful Relinquishment	NA
6.6.4.2.1	WINNF.FT.C.RLQ.3	Unsuccessful Relinquishment, responseCode=102	NA
6.6.4.2.2	WINNF.FT.D.RLQ.4	Domain Proxy Unsuccessful Relinquishment, responseCode=102	NA
6.6.4.3.1	WINNF.FT.C.RLQ.5	Unsuccessful Relinquishment, responseCode=103	NA
6.6.4.3.2	WINNF.FT.D.RLQ.6	Domain Proxy Unsuccessful Relinquishment, responseCode=103	NA
6.7.4.1.1	WINNF.FT.C.DRG.1	Successful Deregistration	Pass
6.7.4.1.2	WINNF.FT.D.DRG.2	Domain Proxy Successful Deregistration	NA
6.7.4.2.1	WINNF.FT.C.DRG.3	Deregistration responseCode=102	NA
6.7.4.2.2	WINNF.FT.D.DRG.4	Domain Proxy Deregistration responseCode=102	NA
6.7.4.3.1	WINNF.FT.C.DRG.5	Deregistration responseCode=103	NA
6.8.4.1.1	WINNF.FT.C.SCS.1	Successful TLS connection between UUT and SAS Test Harness	Pass
6.8.4.2.1	WINNF.FT.C.SCS.2	TLS failure due to revoked certificate	Pass
6.8.4.2.2	WINNF.FT.C.SCS.3	TLS failure due to expired server certificate	Pass
6.8.4.2.3	WINNF.FT.C.SCS.4	TLS failure when SAS Test Harness certificate is issue by unknown CA	Pass
6.8.4.2.4	WINNF.FT.C.SCS.5	TLS failure when certificate at the SAS Test Harness is corrupted	Pass
7.1.4.1.1	WINNF.PT.C.HBT	UUT RF Transmit Power Measurement	Pass

Note: Section as per WINNF-TS-0122 If the product as tested complies with the specification, the UUT is deemed to comply with the standard and is deemed a "Pass" grade. If not "Fail" grade is issued. Where "NA" is stated this means the test case is not applicable.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the UUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions above 1 GHz	1GHz ~ 18GHz	1 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Moso Canopy 5GID2, QuadBridge mini	
Brand	Mosolabs, Moso Networks, Sercomm	
Test Model	SCE5172-n48	
Hardware Version	B00	
Firmware Version DG6607@2409292105		
Status of EUT Engineering sample		
Data Cable Supplied	NA NA	

Note:

1. List of Accessory and Support Unit:

		
POE (Accessory)	Brand	Delta
	Model	ADH-90AR N
	AC Input	100-240Vac, 50/60Hz, 2A
	DC Output	56Vdc, 1.61A
	DC Output Cable	shielded cable (Cat. 6A and above)
AC Adapter (Support Unit)	Brand	Mass Power Electronics Inc.
	Model	NBS100A120600M2
	AC Input	100-240Vac, 50/60Hz, 1.6A
	DC Output	12.0V, 6.0A, 72.0W
	DC Output Cable	1.5m non-shielded cable without core

3.2 General Description of Applied Standards

The UUT is a BTS-CBSD product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC 47 CFR Part 96

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 940660 D01 Part 96 CBRS Eqpt v03

All test items have been performed as a reference to the above KDB test guidance.



4 Measurement

4.1 CBSD Measurement

The CBSD shall validate and ensure that the Conformance and Performance Test results from compliance with SAS functional requirements.

4.2 CBSD Test Procedure

- a. Connect the UUT to SAS Test Harness system and RF Test instruments via the CBSD interface and RF components. The highest level is set to test configuration.
- b. UUT shall be UTC time synchronized
- c. The frequency band is granted and set as UUT supported Modulation and Channels, transmitted power of the UUT according to it granted parameters from the SAS Test Harness.
- d. Each test case results were recorded and validated by SAS Test Harness system and RF instruments test cases was recorded test results from SAS Test Harness system.

4.3 Test Environment

Test Harness Version	V1.0.0.3
Operating System	Microsoft Windows 10
TLS Version	1.2
Python	2.7.13



4.4 Test Environment

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
WINNF-TS-0122	25deg. C, 65%RH	120Vac, 60Hz	Matthew Yang

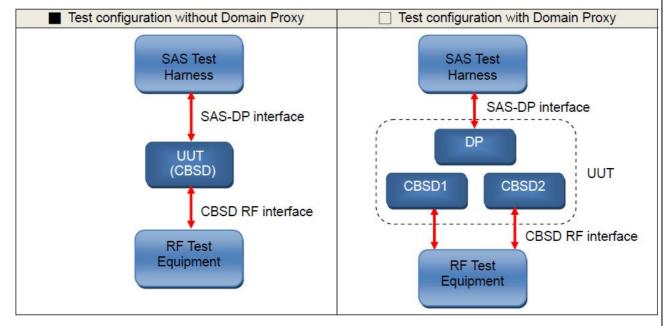
4.5 Test Equipment

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until
ROHDE & SCHWARZ Signal Analyzer	FSV	E2-010642	May 29, 2024	May 28, 2025
Temperature & Humidity	TEA 452040	F2 040002	Dec. 14, 2023	Dec. 13, 2024
Chamber TERCHY	TFA 452019	E2-010883	Dec. 13, 2024	Dec. 12, 2025
Laptop Lenovo	P137G	P137G001	NA	NA

Note:

- 1. The test was performed in InfoSec Test Room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6 Test Setup





4.7 Test Results

4.7.1 CBSD Registration Process

4.7.1.1 WINNF.FT.C.REG.1

■Test Case ID : WINNF.FT.C.REG.1	□NA
	,,

#	Test Execution Steps	Res	sults
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 		
2	CBSD sends correct Registration request information, as specified in [n.5], to the SAS Test Harness: • The required userId, fccId 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.	■ Pass	□ Fail
3	SAS Test Harness sends a CBSD Registration Response as follows: • cbsdld = C • measReportConfig shall not be included • responseCode = 0	I	ŀ
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	■ Pass	□ Fail



4.7.1.2 WINNF.FT.C.REG.3

■Test Case ID: WINNF.FT.C.REG.3

	est Case ID: WINNE, FT. C.REG.3NA		14 .
#	Test Execution Steps	Res	sults
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 		
2	CBSD sends Registration request to SAS Test Harness: all required and REG-Conditional parameter included (userId, fccId, cbsdSerialNumber, cbsdCategory, airInterface, installationParam, measCapability) for a Category A CBSD. The required userId, fccId and cbsdSerialNumber and REG-Conditional cbsdCategory, airInterface, installationParam, and measCapability registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges. Any optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges.	■ Pass	□ Fail
3	 SAS Test Harness sends a CBSD Registration Response as follows: cbsdld = C 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	■ Pass	☐ Fail



4.7.1.3 WINNF.FT.C.REG.5

■Test Case ID: WINNF.FT.C.REG.5	□NA

#	Test Execution Steps	Res	sults
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 All of the required and REG-Conditional parameters shall be configured and CPI signature provided 		-
2	 CBSD sends Registration request to the SAS Test Harness: The required userId, fccId and cbsdSerialNumber and REG-Conditional cbsdCategory, airInterface, measCapability and cpiSignatureData registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges. Any optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges. 	■ Pass	□ Fail
3	 SAS Test Harness sends a CBSD Registration Response as follows: cbsdld = C 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.	Pass	☐ Fail
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		



4.7.1.4 WINNF.FT.C.REG.8

■Test Case ID : WINNF.FT.C.REG.8 □NA

#	Test Execution Steps	Res	sults
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 	I	I
2	CBSD sends a Registration request to SAS Test Harness.	1	I
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include <i>cbsdld</i> - <i>responseCode</i> = R = 102	1	1
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	■ Pass	□ Fail



4.7.1.5 WINNF.FT.C.REG.10

■Test Case ID : WINNF.FT.C.REG.10 □NA

#	Test Execution Steps	Res	sults
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 	I	I
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 <i>cbsdld</i> - <i>responseCode</i> = R = 200	1	1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=200) to further request messages from the UUT.	1	-1-
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	■ Pass	☐ Fail



4.7.1.6 WINNF.FT.C.REG.12

■Test Case ID : WINNF.FT.C.REG.12 □NA

#	Test Execution Steps	Res	sults
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 	I	1
2	CBSD sends a Registration request to SAS Test Harness.	1	1
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: - SAS response does not include <i>cbsdld</i> - <i>responseCode</i> = R = 103	1	1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=103) to further request messages from the UUT.	-1	1
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	■ Pass	□ Fail



4.7.1.7 WINNF.FT.C.REG.14

■Test Case ID : WINNF.FT.C.REG.14 □NA

#	Test Execution Steps	Res	sults
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 cbsdld responseCode = R = 101		1
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	■ Pass	☐ Fail



4.7.1.8 WINNF.FT.C.REG.16

■Test Case ID : WINNF.FT.C.REG.16 □NA

#	Test Execution Steps	Res	sults
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 		I
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 cbsdld • responseCode = R = 100		1
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		-1-
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	■ Pass	☐ Fail



4.7.1.9 WINNF.FT.C.REG.18

■Test Case ID : WINNF.FT.C.REG.18 □NA

#	Test Execution Steps	Res	sults
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 cbsdld responseCode = R = 201		-1
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	■ Pass	□ Fail

4.7.1.10 WINNF.FT.C.REG.20

The test case ID is provided as a means to ensure that evidence is provided showing compliance to this requirement.



4.7.2 CBSD Spectrum Grant Process

4.7.2.1 WINNF.FT.C.GRA.1

Test Case ID : WINNF.FT.C.GRA.1	□NA
Test case id . Winner L.C.GRA. i	INA

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = C 		
2	UUT sends valid Grant Request.		
3	SAS Test Harness sends a Grant Response message, including cbsdld=C responseCode = R = 400		
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	■ Pass	☐ Fail



4.7.2.2 WINNF.FT.C.GRA.2

■Test Case ID : WINNF.FT.C.GRA.2

#	Test Execution Steps	Res	sults
1	 Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = C 		
2	UUT sends valid Grant Request.		
3	SAS Test Harness sends a Grant Response message, including cbsdld=C responseCode = R = 401		1
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	■ Pass	□ Fail



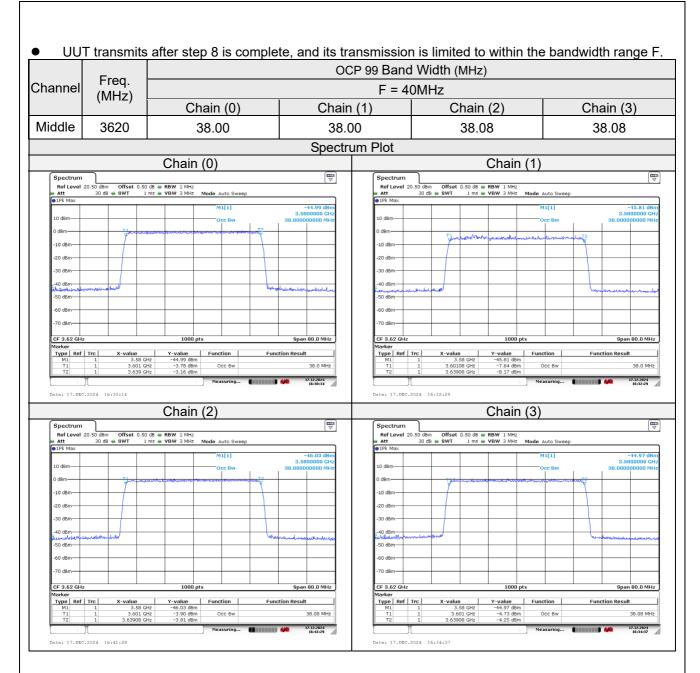
4.7.3 CBSD Heart Beat Process

4.7.3.1 WINNF.FT.C.HBT.1

■Test Case ID : WINNF.FT.C.HBT.1

#	Test Execution Steps	Res	sults
1	Ensure the following conditions are met for test entry: UUT has registered successfully with SAS Test Harness, with cbsdld = 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: cbsdld = C List of frequencyRange objects sent by UUT are within the CBRS frequency range 	■ Pass	☐ Fail
4	SAS Test Harness sends a Spectrum Inquiry Response message, including the following parameters: • cbsdld = C • availableChannel is an array of availableChannel objects • responseCode = 0		
5	UUT sends Grant Request message. Validate:	■ Pass	□ Fail
6	SAS Test Harness sends a Grant Response message, including the parameters: • cbsdld = 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: • cbsdld = C • grantld = G • operationState = "GRANTED"	■ Pass	☐ Fail
8	SAS Test Harness sends a Heartbeat Response message, with the following parameters: • cbsdld = 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: • cbsdld = C • grantId = G • operationState = "AUTHORIZED" and SAS Test Harness responds with a Heartbeat Response message including the following parameters: • cbsdld = C • grantId = G • transmitExpireTime = current UTC time + 200 seconds • responseCode = 0	■ Pass	□ Fail
10	Monitor the RF output of the UUT from start of test until UUT transmission commences. Verify: UUT does not transmit at any time prior to completion of the first heartbeat response UUT transmits after step 8 is complete, and its transmission is limited to within the bandwidth range F.	■ Pass	□ Fail







4.7.3.2 WINNF.FT.C.HBT.3

■Test Case ID : WINNF.FT.C.HBT.3 □NA

#	Test Execution Steps	Res	sults
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: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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: • cbsdld = C • grantld = G • operationState = "AUTHORIZED"		
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = 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	■ Pass	☐ Fail



4.7.3.3 WINNF.FT.C.HBT.4

■Test Case ID : WINNF.FT.C.HBT.4 □NA

#	Test Execution Steps	Res	sults
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: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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 latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = 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	■ Pass	☐ Fail



4.7.3.4 WINNF.FT.C.HBT.5

■Test Case ID: WINNF.FT.C.HBT.5

#	Test Execution Steps	Res	sults
#	Ensure the following conditions are met for test entry:	1103	Suito
1	 UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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. Verify Heartbeat Request message is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "GRANTED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = 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: cbsdld = C grantId = G B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: cbdsld = C grantId = G Monitor the RF output of the UUT. Verify: UUT does not transmit at any time 	■ Pass	□ Fail



4.7.3.5 WINNF.FT.C.HBT.6

■Test Case ID: WINNF.FT.C.HBT.6

#	Test Execution Steps	Res	sults
#	Ensure the following conditions are met for test entry:	Nes	Suits
1	 UUT has registered successfully with SAS Test Harness UUT has a valid single grant as follows: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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 latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = 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: • cbsdld = C • grantId = G • operationState = "GRANTED" B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: • cbdsld = C • grantId = G Monitor the RF output of the UUT. Verify: • UUT shall stop transmission within (T+60) seconds of completion of step 3	■ Pass	□ Fail



4.7.3.6 WINNF.FT.C.HBT.7

■Test Case ID : WINNF.FT.C.HBT.7

	est Case ID: WINNF.FT.C.HBT./		
#	Test Execution Steps	Res	sults
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: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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 latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = G • transmitExpireTime = T = current UTC time • responseCode = 502 (UNSYNC_OP_PARAM)	I	
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: ○ cbsdld = C ○ grantId = G Monitor the RF output of the UUT. Verify: ■ UUT shall stop transmission within (T+60) seconds of completion of step 3	■ Pass	□ Fail



4.7.3.7 WINNF.FT.C.HBT.9

■Test Case ID: WINNF.FT.C.HBT.9

#	Test Execution Steps	Res	sults
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: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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) 	-1	
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "GRANTED"	■ Pass	□ Fail
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	■ Pass	☐ Fail



4.7.3.8 WINNF.FT.C.HBT.10

■Test Case ID : WINNF.FT.C.HBT.10 □NA

#	Test Execution Steps	Res	sults
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: valid cbsdld = C valid grantld = G grant is for frequency range F, power P 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 latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	■ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: • cbsdld = C • grantld = G • transmitExpireTime = T = current UTC time + 200 seconds • responseCode = 0		
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 all transmission on RF interface within (transmitExpireTime + 60 seconds), using the transmitExpireTime sent in Step 3.	■ Pass	☐ Fail



4.7.4 CBSD Relinquishment Process

4.7.4.1 WINNF.FT.C.RLQ.1

Toot Coop ID	: WINNF.FT.C.RLQ.1	□NA
Test Case IL	7. WIININF.F I.C.KLQ. I	I INA

#	Test Execution Steps	Res	sults
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 cbsdld=C UUT has received a valid grant with grantld = 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		1
2	UUT sends a Relinquishment Request message. Verify message contains all required parameters properly formatted, and specifically: cbsdld = C grantId = G 	Pass	☐ Fail
3	SAS Test Harness shall approve the request with a Relinquishment Response message with parameters: - cbsdld = C - grantld = G - responseCode = 0		-
4	After completion of step 3, SAS Test Harness will not provide any additional positive response (<i>responseCode</i> =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	■ Pass	☐ Fail



4.7.5 CBSD Deregistration Process

4.7.5.1 WINNF.FT.C.DRG.1

■Test Case ID : WINNF.FT.C.DRG.1 □NA

#	Test Execution Steps	Res	sults
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 <i>cbsdld</i>=C UUT has received a valid grant with <i>grantld</i> = 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 <i>cbsdld</i> = C.	■ Pass	☐ Fail
4	SAS Test Harness shall approve the request with a Deregistration Response message with parameters: • cbsdld = C • responseCode = 0		
5	After completion of step 3, SAS Test Harness will not provide any additional positive response (<i>responseCode</i> =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 	■ Pass	□ Fail



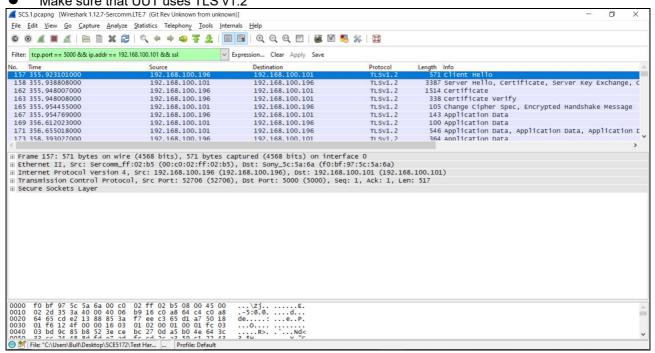
4.7.6 CBSD Security Validation

4.7.6.1 WINNF.FT.C.SCS.1

■Test Case ID : WINNF.FT.C.SCS.1 □NA

#	Test Execution Steps	Res	sults
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 	■ Pass	□ Fail
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 	■ Pass	□ Fail
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 cbsdld.	■ Pass	☐ Fail
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	■ Pass	☐ Fail

Wireshark Capture Example for Test Case:

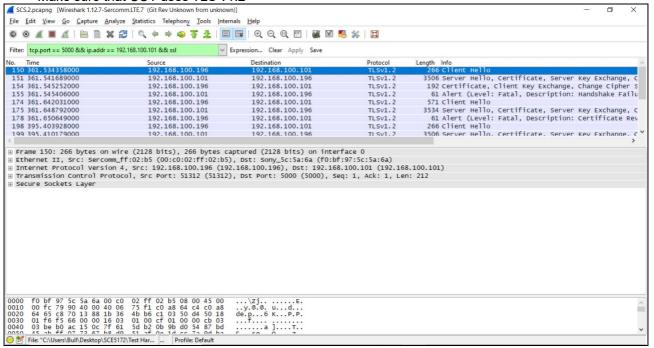




4.7.6.2 WINNF.FT.C.SCS.2

#	Test Execution Steps	Res	sults
1	UUT shall start CBSD-SAS communication with the security procedures		
'		Pass	Fail
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. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	☐ Fail
4	SAS Test-Harness shall not receive any Registration request or any application data.	1	
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	■ Pass	☐ Fail

Wireshark Capture Example for Test Case:



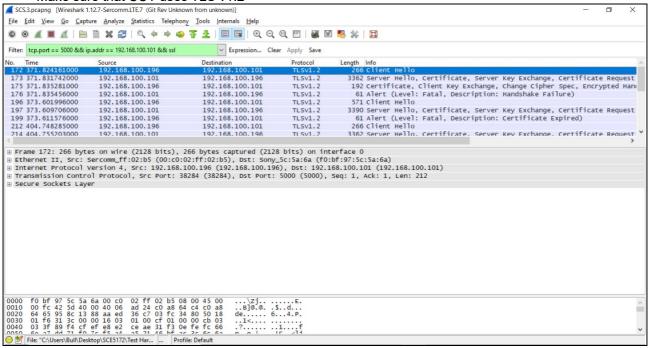


4.7.6.3 WINNF.FT.C.SCS.3

■Test Case ID: WINNF.FT.C.SCS.3

#	Test Execution Steps	Res	sults
4	UUT shall start CBSD-SAS communication with the security procedures		
'		Pass	Fail
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. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	Pass	☐ 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	■ Pass	□ Fail

Wireshark Capture Example for Test Case:

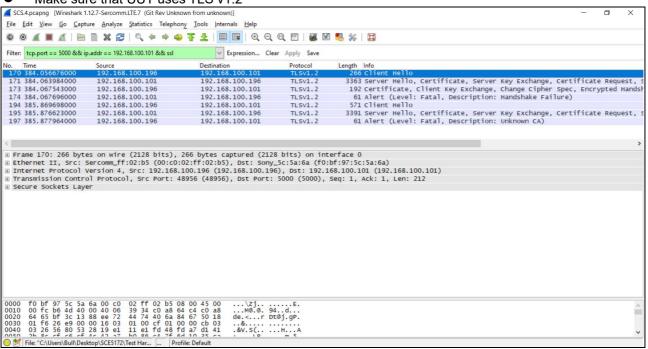




4.7.6.4 WINNF.FT.C.SCS.4

#	Test Execution Steps	Res	sults
1	UUT shall start CBSD-SAS communication with the security procedures		
_ '		Pass	Fail
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. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	 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	■ Pass	☐ Fail

Wireshark Capture Example for Test Case:



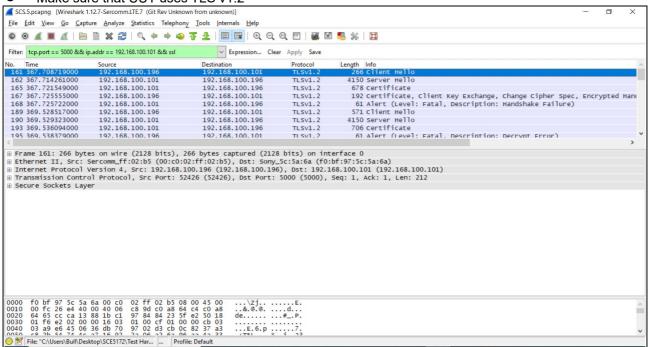


4.7.6.5 WINNF.FT.C.SCS.5

■Test Case ID: WINNF.FT.C.SCS.5

#	Test Execution Steps	Res	sults
4	UUT shall start CBSD-SAS communication with the security procedures		
'		Pass	Fail
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. 	■ Pass	□ Fail
3	UUT may retry for the security procedure which shall fail.	■ Pass	☐ 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	■ Pass	☐ Fail

Wireshark Capture Example for Test Case:





4.7.7 CBSD RF Power Measurement

4.7.7.1 WINNF.PT.C.HBT.1

#	Test Execution Steps	Res	sults
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 CBSD ID = 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 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 		
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: □ cbsdld = C □ grantld = G □ sAS Test Harness responds with Heartbeat Response, including: □ cbsdld = C □ grantld = G □ transmitExpireTime = current UTC time + 200 seconds □ responseCode = 0		1
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 fulfill the requirements of the power measurement method. 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.	■ Pass	□ Fail



RF measurement plot for Test Case:

• 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 fulfill the requirements of the power measurement method.

Channel	Freq. (MHz)	40MHz						Limit	
		Conducted Power Density (dBm/MHz)				Gain(dBi)	5.46	Limit	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3	EIRP (dBm/MHz)		maxEirp(dBm)=Pi	
Middle	3620	-11.15	-11.97	-11.74	-11.38	-0.05		0	Pass
Middle	3620	-1.27	-2.00	-1.88	-1.36	9.86		10.0	Pass
Middle	3620	8.54	8.12	7.97	8.50	19.77		20.0	Pass

