Test Report

As per

FCC Part 96 SAS requirements (CBRS Test Plan)



Add value. Inspire trust.

on the Cradlepoint Cellular Access point A2415 Outdoor High-Power Unit FCC ID: UXX-S1A415A

Issued by: **TÜV SÜD Canada Inc.** 1280 Teron Rd, Ottawa, ON K2K 2C1 Canada

Scott Drysdale. Test Personnel

Nour El Masri Report Reviewer Testing produced for

Cradlepoint (Ericsson Enterprise Wireless Solutions)

See Appendix A for full client & EUT details.



Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

Report Scope

This report addresses the EMC verification testing and test results of the **Cradlepoint (Ericsson Enterprise Wireless Solutions) A2415 Outdoor High-Power Unit** herein referred to as EUT (Equipment Under Test). The EUT was tested for compliance against the following standards:

FCC Part 96 SAS requirements (CBRS Test Plan), C2PC requirements for adding domain proxy functionality.

Test procedures, results, justifications, and engineering considerations, if any, follow later in this report.

For a more detailed list of the standards and the revision used, see the "Applicable Standards, Specifications and Methods" section of this report.

This report does not imply product endorsement by any government, accreditation agency, or TÜV SÜD Canada Inc.

Opinions or interpretations expressed in this report, if any, are outside the scope of TÜV SÜD Canada Inc accreditations. Any opinions expressed do not necessarily reflect the opinions of TÜV SÜD Canada Inc, unless otherwise stated.

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

Summary

The results contained in this report relate only to the item(s) tested.

Equipment Under Test (EUT)	A2415 Outdoor High-Power Unit
EUT passed all tests performed	Yes
Tests conducted by	Scott Drysdale

For testing dates, see 'Testing Environmental Conditions and Dates'.

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

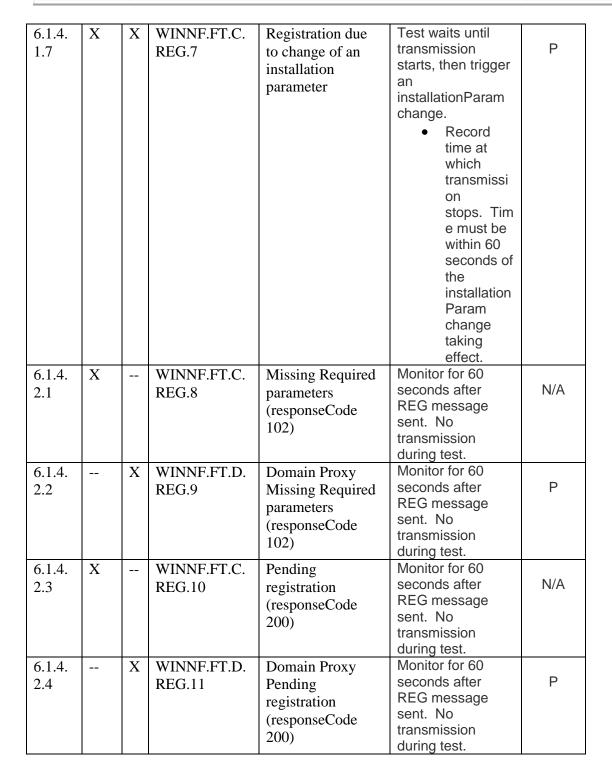
Test Results Summary

Section as per Working Document WINNF-TS-0122

Sectio	CB	D	Test Case ID	Test Case Title	RF Measurement	Pass /
n	SD	P			Requirement	Fail
6.1.4.	X		WINNF.FT.C. REG.1	Multi-Step registration	Monitor for 60 seconds after REG message sent. No transmission during test.	N/A
6.1.4.		X	WINNF.FT.D. REG.2	Domain Proxy Multi-Step registration	Monitor for 60 seconds after REG message sent. No transmission during test.	Р
6.1.4.	X		WINNF.FT.C. REG.3	Single-Step registration for Category A CBSD	Monitor for 60 seconds after REG message sent. No transmission during test.	N/A
6.1.4.		X	WINNF.FT.D. REG.4	Domain Proxy Single-Step registration for Cat A CBSD (Note: Mandatory for without CPI, if EUT will always have signed CPI – asked for email waiver)	Monitor for 60 seconds after REG message sent. No transmission during test.	N/A
6.1.4. 1.5	X		WINNF.FT.C. REG.5	Single-Step registration for CBSD with CPI signed data	Monitor for 60 seconds after REG message sent. No transmission during test.	N/A
6.1.4. 1.6		X	WINNF.FT.D. REG.6	Domain Proxy Single-Step registration for CBSD with CPI signed data	Monitor for 60 seconds after REG message sent. No transmission during test.	Р

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Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canad

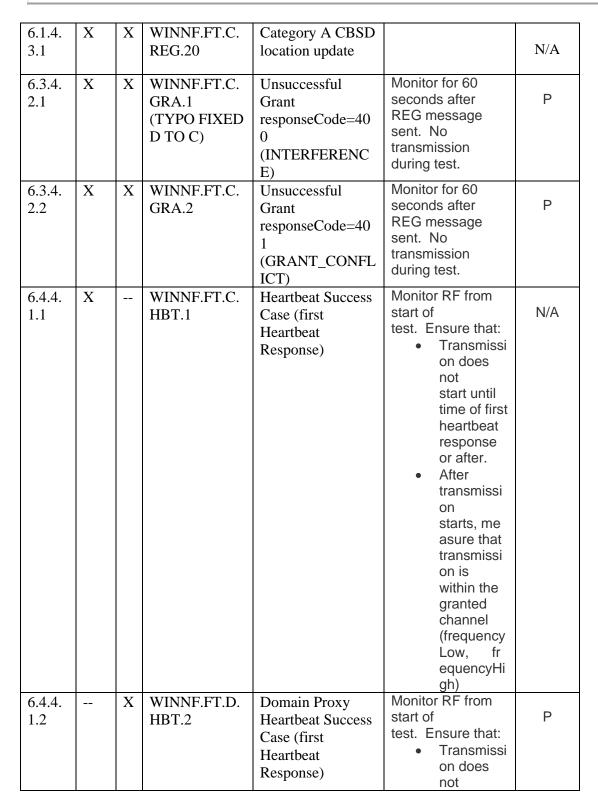


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2.5 6.1.4 2.6	2	X	WINNF.FT.C. REG.12 WINNF.FT.D. REG.13	Invalid parameter (responseCode 103) Domain Proxy Invalid parameters	Monitor for 60 seconds after REG message sent. No transmission during test. Monitor for 60	N/A
6.1.4 2.6 - 6.1.4. >		X	WINNF.FT.D.	Domain Proxy	sent. No transmission during test. Monitor for 60	
2.6 6.1.4. X				Domain Proxy	transmission during test. Monitor for 60	
2.6 6.1.4. X					during test. Monitor for 60	
2.6 6.1.4. X					Monitor for 60	
2.6 6.1.4. X						
6.1.4. X	X -		REG.13	Invalid parameters	accorde offer	
	X -				seconds after	Р
	X -			(responseCode	REG message	
	X -			103)	sent. No	
	X -				transmission	
	X -	1	WDDIE EE G	D1 11' 1 CD CD	during test.	
2.7			WINNF.FT.C.	Blacklisted CBSD	Monitor for 60	N1/A
			REG.14	(responseCode	seconds after	N/A
				101)	REG message	
					sent. No transmission	
6.1.4		X	WINNF.FT.D.	Domain Provv	during test. Monitor for 60	
2.8	4		REG.15	Domain Proxy Blacklisted CBSD	seconds after	Р
2.8			KEU.13		REG message	'
				(responseCode	sent. No	
				101)	transmission	
					during test.	
6.1.4. X	X -		WINNF.FT.C.	Unsupported SAS	Monitor for 60	
2.9			REG.16	protocol version	seconds after	N/A
2.5			1120.10	(responseCode	REG message	
				100)	sent. No	
				100)	transmission	
					during test.	
0.1.1.	2		WINNF.FT.D.	Domain Proxy	Monitor for 60	
2.10			REG.17	Unsupported SAS	seconds after	Р
				protocol version	REG message	
				responseCode	sent. No	
				100)	transmission	
(14)	37	_		,	during test.	
	X -		WINNF.FT.C.	Group Error	Monitor for 60 seconds after	N/A
2.11			REG.18	(responseCode	REG message	IN/A
				201)	sent. No	
					transmission	
					during test.	
614 -		X	WINNE ET D	Domain Provv	Monitor for 60	
						Р
2.12			NEO.17			•
				` *	sent. No	
	1			201)	transmission	
6.1.4. -]		WINNF.FT.D. REG.19	Domain Proxy Group Error (responseCode	seconds after REG message	Р

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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜN
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canad



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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)		
Product	A2415 Outdoor High-Power Unit		
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Car	



					start until time of first heartbeat	
					response or after. • After	
					transmissi on	
					starts, me asure that	
					transmissi on is	
					within the granted	
					channel (frequency	
					Low, fr equencyHi gh)	
6.4.4. 2.1	X	X	WINNF.FT.C. HBT.3	Heartbeat responseCode=10	Monitor RF transmission. Ens ure that:	N/A
				5 (DEREGISTER)	• CBSD	
					stops transmissi	
					on within 60	
					seconds of the	
					heartbeat Response	
					which contains	
					responseC ode	
6.4.4.	X		WINNF.FT.C.	Heartbeat	= 105	
2.2			HBT.4	responseCode=50		N/A
				(TERMINATED_ GRANT)		
6.4.4. 2.3	X	X	WINNF.FT.C. HBT.5	Heartbeat responseCode=50	Monitor RF transmission from	N/A
				1 (SUSPENDED_G	start of test. Ensure there	
				RANT) in First	is no transmission during the test	

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				Heartbeat		
6.4.4. 2.4	X	X	WINNF.FT.C. HBT.6	Response Heartbeat responseCode=50 1 (SUSPENDED_G RANT) in Subsequent Heartbeat Response	Monitor RF transmission. Ens ure: CBSD stops transmissi on within 60 seconds of heartbeat Response which contains responseC ode=501	N/A
6.4.4.	X	X	WINNF.FT.C. HBT.7	Heartbeat responseCode=50 2 (UNSYNC_OP_P ARAM)	Monitor RF transmission. Ens ure: • CBSD stops transmissi on within 60 seconds of heartbeat Response which contains responseC ode=502	N/A
6.4.4.		X	WINNF.FT.D. HBT.8	Domain Proxy Heartbeat responseCode=50 0 (TEMINATED_G RANT)	Monitor RF transmission. CB SDs will have different behavior:	Р

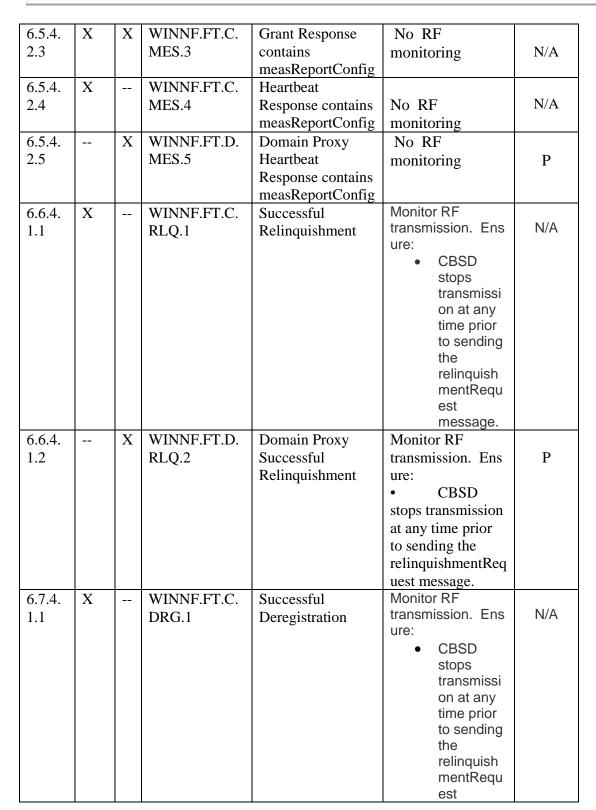
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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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					CBSD2:	
					must stop	
					transmissi	
					on within	
					60	
					seconds of	
					being sent	
					heartbeat	
					Response	
					with	
					responseC	
					ode = 500	
C 1 1	37	37	MAINIE ET C	TT 41 4	Monitor RF from	
6.4.4.	X	X	WINNF.FT.C.	Heartbeat		NI/A
3.1			HBT.9	Response Absent	start of test to 60	N/A
				(First Heartbeat)	seconds after last	
					heartbeatRespons	
					e message was	
					sent. CBSD	
					should not	
					transmit at any	
					time during test	
6.4.4.	X	X	WINNF.FT.C.	Heartbeat	Monitor RF	
3.2			HBT.10	Response Absent	transmission. Veri	N/A
				(Subsequent	fy:	
				Heartbeat)	 CBSD 	
				,	must stop	
					transmissi	
					on within	
					transmitEx	
					pireTime+	
					60	
					seconds,	
					where	
					transmitEx	
					pireTime is	
					from last	
					successful	
					heartbeat	
					Response	
					message	
6.5.4.	X		WINNF.FT.C.	Registration	No RF	
2.1			MES.1	Response contains	monitoring	N/A
				measReportConfig		- "
6.5.4.		X	WINNF.FT.D.	Domain Proxy		
2.2		* *	MES.2	Registration	No RF	P
2.2			171110.2	_		•
				Response contains	monitoring	
İ		1		measReportConfig		

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Product	A2415 Outdoor High-Power Unit	TÜ
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Cana



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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	I
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					message or deregist rationRequ est message (whichever is sent first)	
6.7.4.		X	WINNF.FT.D. DRG.2	Domain Proxy Successful Deregistration	Monitor RF transmission. Ens ure:	P
6.8.4.	X	X	WINNF.FT.C. SCS.1	Successful TLS connection between UUT and SAS Test Harness	No RF transmission during test Check the tcpdump for the TLS information	N/A
6.8.4.	X	X	WINNF.FT.C. SCS.2	TLS failure due to revoked certificate	No RF transmission during test Check the tcpdump for the TLS information	N/A
6.8.4.	X	X	WINNF.FT.C. SCS.3	TLS failure due to expired server certificate	No RF transmission during test Check the tcpdump for the TLS information	N/A
6.8.4.	X	X	WINNF.FT.C. SCS.4	TLS failure when SAS Test Harness certificate is issue by unknown CA	No RF transmission during test	N/A

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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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					Check the tcpdump for the TLS information	
6.8.4. 2.4	X	X	WINNF.FT.C. SCS.5	TLS failure when certificate at the SAS Test Harness is corrupted	No RF transmission during test Check the tcpdump for the TLS information	N/A
7.1.4.	X	X	WINNF.PT.C. HBT	UUT RF Transmit Power Measurement	Power Spectral Density test case. Assume we use 1 carrier bandwidth (say, 5 or 10 MHz), one frequency (say middle channel in band) for test. Measure at max transmit power, and reduce in steps of 3 dB to minimum declared transmit power.	N/A

If the product as tested complies with the specification, the EUT is deemed to comply with the standard and is deemed a 'PASS' or 'P' grade. If not 'FAIL' grade is issued. Where 'N/A' is stated this means the test case is not applicable, and see Notes, Justifications or Deviations Section for details.

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Notes, Justifications, or Deviations

The following notes, justifications for tests not performed or deviations from the above listed specifications apply:

A later revision of the standard may have been substituted in place of the previous dated referenced revision. The year of the specification used is listed under applicable standards. Using the later revision accomplishes the goal of ensuring compliance to the intent of the previous specification, while allowing the laboratory to incorporate the extensions and clarifications made available by a later revision.

For the N/A test cases, the following justifications apply:

- a. EUT is a CBSD with Domain Proxy functionality being added only, previous testing was not deemed to be affected
- b. Conditional functionality from WINNF-TS-0122-V1.0.0, Table 6-2:
 - i. C1 Multi-step registration (WINNF.FT.D.REG.2)
 - ii. C3 Single step registration containing CPI-signed data in the registration message (WINNF.FT.D.REG.6)
 - iii. C4 RECEIVED_POWER_WITHOUT_GRANT measurement report (WINNF.FT.D.MES.2)
 - iv. C5 RECEIVED_POWER_WITH_GRANT measurement report (WINNF.FT.D.MES.3, WINNF.FT.D.MES.5)
 - v. C6 UUT supports installation parameter change (WINNF.FT.C.REG.7)
- c. Optional test cases were not performed

The device does not use single-step registration (as defined in condition C2 in WINNF-TS-0122-V1.0.0, Table 6-2), therefore test cases 6.1.4.1.4, and 6.1.4.3.1 are not applicable as per WINNF-TS-0122-V1.0.0, Table 6-3 and therefore not required or performed.

Note, where graph sweeps are incomplete, this was used to set the time stamp of when the events occurred. This can be accomplished by determining the time at which the graph was captured and subtracting the remaining time. For example if there was a 30 second sweep, and 9 out of 10 is complete, that means the end occurred at the 27 second market. If the time on the graph was 12:03:35, this means the graph started at 12:03:08. This allows us to co-ordinate graph with timing provided in the logs.

Logs are kept on file.

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Applicable Standards, Specifications and Methods

ANSI C63.26:2015 American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

CFR47 FCC Part 96 Code of Federal Regulations – Citizens Broadband Radio Service

WINNF-TS-0122 Conformance and Performance Test Technical Specification;

Version V1.0.2 CBSD/DP as Unit Under Test (UUT)

25 November 2020 Working Document

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration

laboratories

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Document Revision Status

7169014474 000: March 7, 2025 – Draft Release.

7169014474 001: March 9, 2025 – Signed. First issue.

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Definitions and Acronyms

The following definitions and acronyms are applicable in this report. See also ANSI C63.14.

AE – Auxiliary Equipment. A digital accessory that feeds data into or receives data from another device (host) that in turn, controls its operation.

AM – Amplitude Modulation

Class A device – A device that is marketed for use in a commercial, industrial or business environment. A 'Class A' device should not be marketed for use by the general public and the instructions for use accompanying the product shall contain the following text:

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Class B device – A device that is marketed for use in a residential environment and may also be used in a commercial, business or industrial environments.

EMC – Electro-Magnetic Compatibility. The ability of an equipment or system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

EMI – Electro-Magnetic Immunity. The ability to maintain a specified performance when the equipment is subjected to disturbance (unwanted) signals of specified levels.

Enclosure Port – Physical boundary of equipment through which electromagnetic fields may radiate or impinge.

EUT – Equipment Under Test. A device or system being evaluated for compliance that is representative of a product to be marketed.

LISN – Line Impedance Stabilization Network

NCR – No Calibration Required

NSA – Normalized Site Attenuation

RF – Radio Frequency

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EMC Test Plan – An EMC test plan established prior to testing. See 'Appendix A – EUT & Client Provided Details'.

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Testing Facility

Testing for EMC on the EUT was carried out at customer location as described in Appendix A.

Calibrations and Accreditations

TÜV SÜD Canada Inc is accredited to ISO/IEC 17025 by A2LA with Testing Certificate #2955.19. The laboratory's current scope of accreditation listing can be found as listed on the A2LA website. All measuring equipment is calibrated on an annual or bi-annual basis as listed for each respective test.

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Testing Environmental Conditions and Dates

Following environmental conditions were recorded in the facility during time of testing

Date	Test	Initials	Temperature (°C)	Humidity (%)	Pressure (kPa)
Feb 24, 2025	All	SD	20-23	40-55	101.4

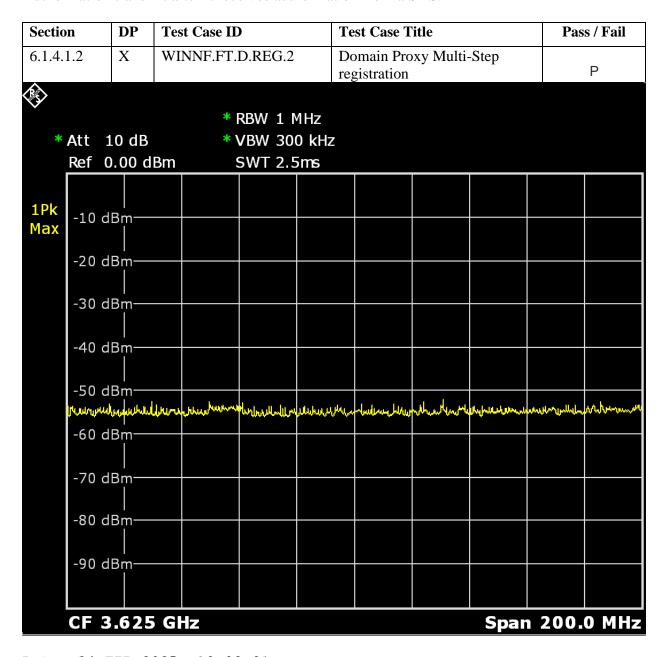
Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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Detailed Test Results Section

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

D.REG

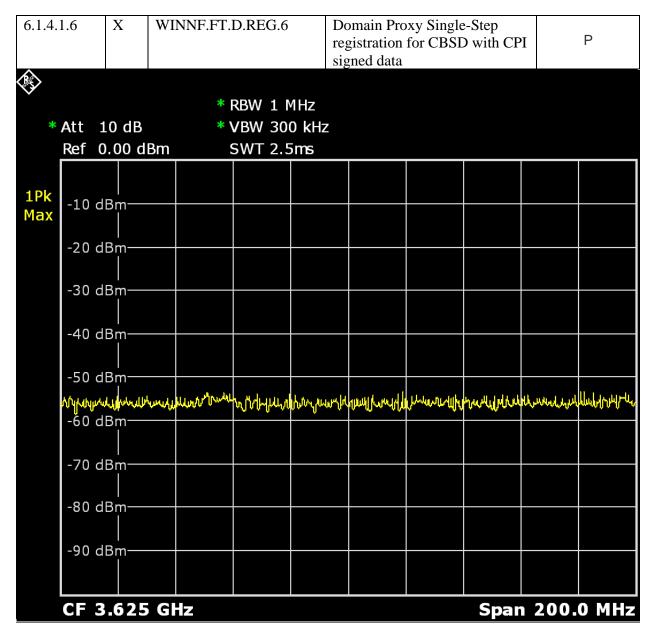
Authorization transmit after it receives authorization from a SAS.



Date: 24.FEB.2025 10:02:01

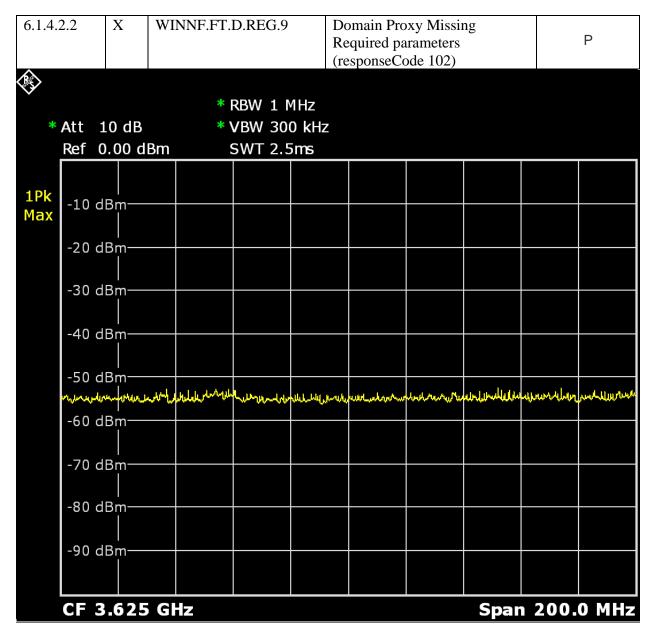
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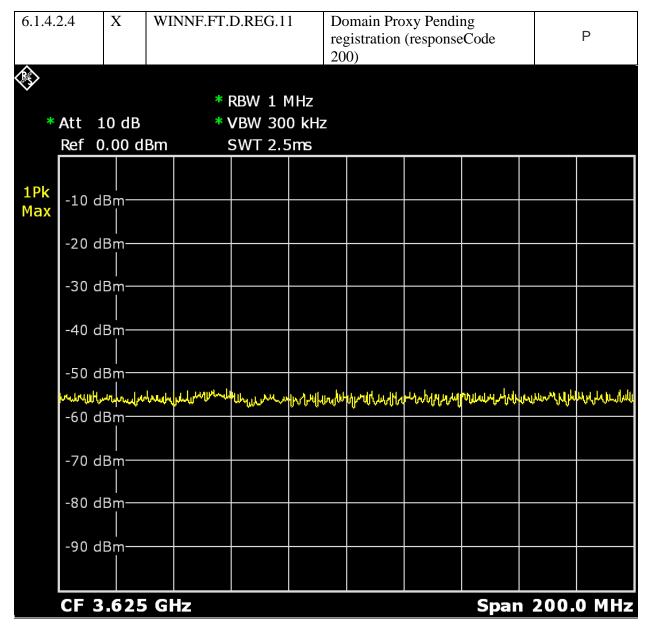
Date: 24.FEB.2025 10:03:09

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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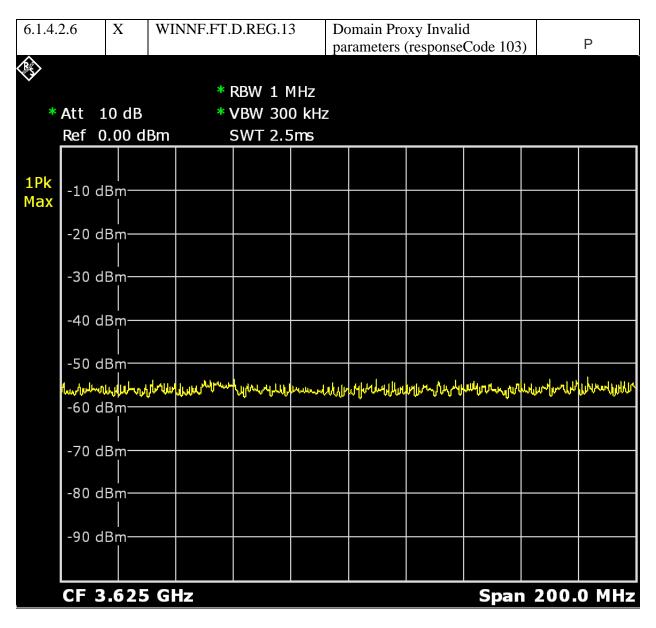
Date: 24.FEB.2025 10:08:18

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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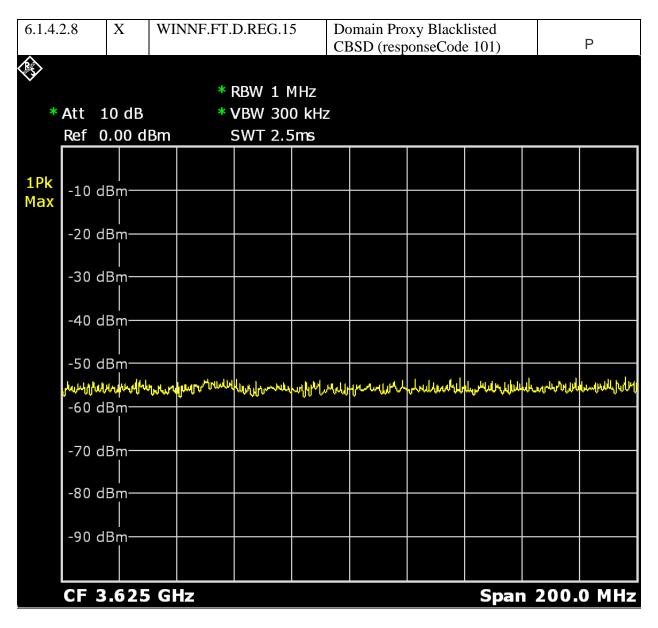
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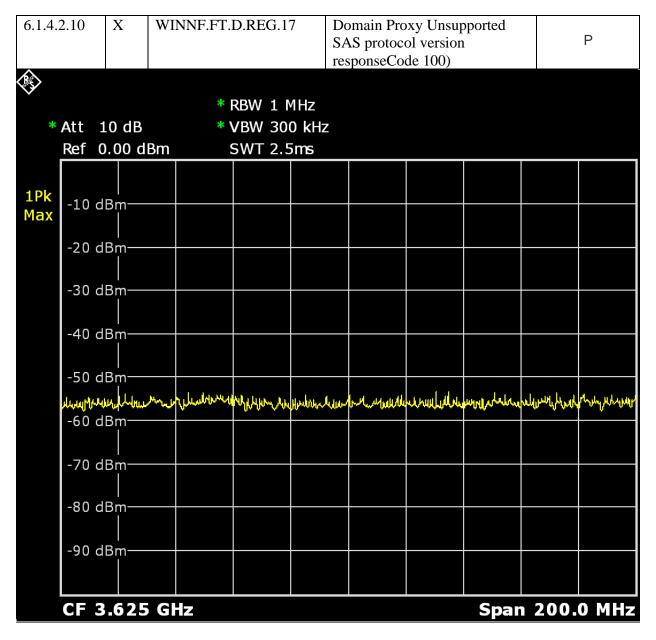
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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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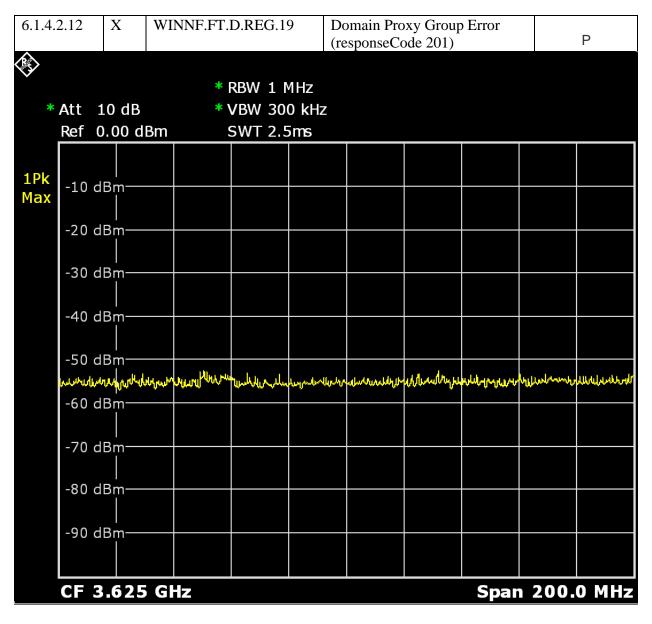
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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
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Date: 24.FEB.2025 10:14:31

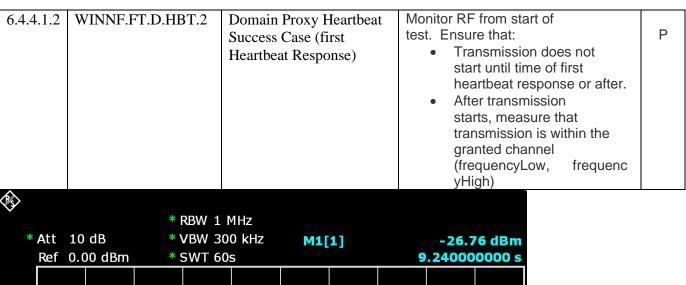
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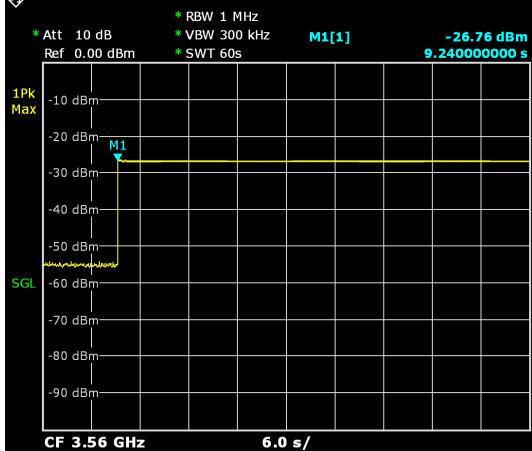


Date: 24.FEB.2025 10:16:45

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
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D.HBT



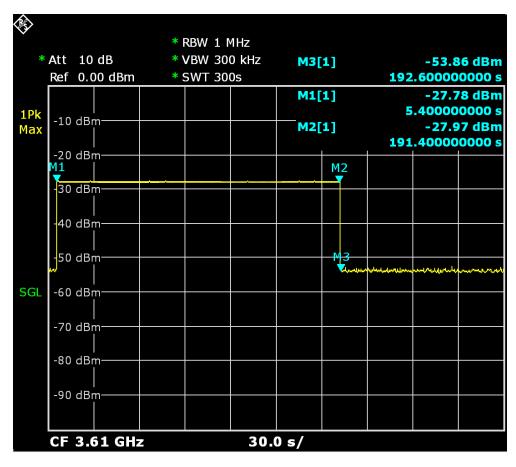


Date: 24.FEB.2025 10:25:30

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6.4.4.	2	X	WINNF.FT.D.H	Domain Proxy	Monitor RF	
6			BT.8	Heartbeat responseCode=500 (TEMINATED_GR ANT)	transmission. CBSDs will have different behavior: CBSD1: will continue to transmit to end of test (this is not a pass/fail criteria, but check) CBSD2: must stop transmission within 60 seconds of being sent heartbeatResponse with responseCode = 500	Р



Date: 24.FEB.2025 11:26:58

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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

6.5.4.2.2	WINNF.FT.D.MES.2	Domain Proxy Registration Response contains	No RF monitoring	P
		measReportConfig		

Pass. "measreportconfig" in logs.

All other requirements verified.

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

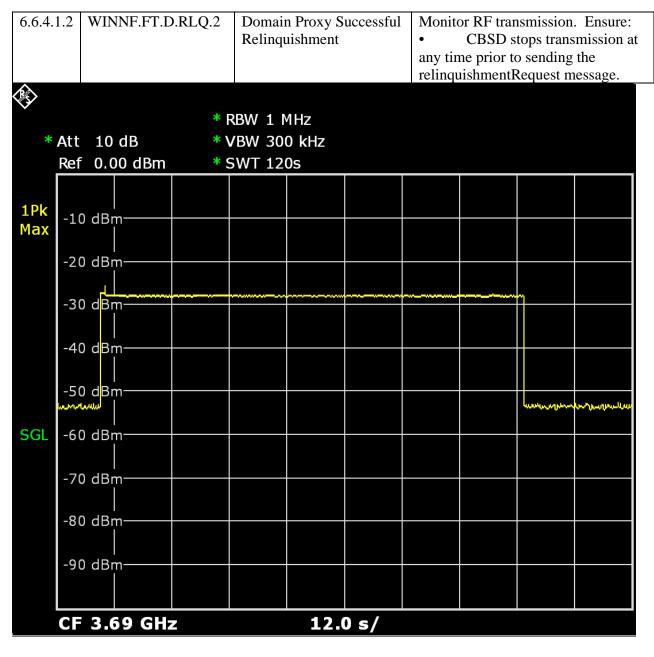
6.5.4.2.5	WINNF.FT.D.MES.5	Domain Proxy Heartbeat	No RF monitoring	
		Response contains		P
		measReportConfig		

All other requirements verified.

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

P

D.RLQ



Date: 24.FEB.2025 12:37:42

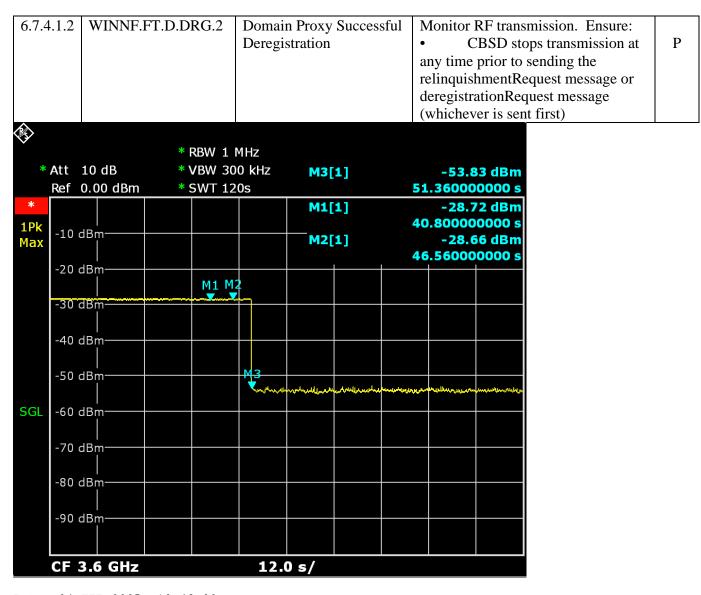
Test Harness logs and timing on graph was verified, the EUT passed the requirement.

Shutdown time taken from Domain Proxy logs, and shutdown confirmed by RF monitoring.

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Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	SUD
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

D.DRG



Date: 24.FEB.2025 12:48:00

Test Harness logs and timing on graph was verified, the EUT passed the requirement.

Shutdown time taken from Domain Proxy logs, and shutdown confirmed by RF monitoring.

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

Test Equipment

device-no.	name	manufacturer	type	last calibration	valid until
'FRGE06006	Spectrum Analyzer	Rohde & Schwarz	FSL6	17.04.2024	17.04.2025

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

Appendix A – EUT & Client Provided Details

Client	Cradlepoint (Ericsson Enterprise Wireless Solutions)	
Product	A2415 Outdoor High-Power Unit	TÜV
Standard(s)	FCC Part 96 SAS requirements (CBRS Test Plan)	Canada

General EUT Description

A2415 units used for testing:

CBSD 1.

S/N number: 1202000240218LY0170

FCC-ID: UXX-S1A415A Mac: 48:bf:74:1f:f0:2d

CBSD 2.

S/N number: 1202000240218LY0131

FCC-ID: UXX-S1A415A Mac: 48:bf:74:1f:f0:06

A2415 Sw version: **A2415.GA.25.30.1**Domain Proxy Build number: **1.325.1722**

Client Address and test location: CradlePoint (Ericsson Enterprise Wireless Solutions) 2755 Augustine Drive, Building C 95054 Santa Clara, USA

Phone: +1 (408) 750-5000