



Test Report

Prepared for General Motors LLC

This report presents detailed information on
NAR VCUNH1

Prepared by

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Engineer II

Approved by

Jason Kanakry
Automotive Lab Manager

Issue date : 09/01/2023

Report No.: J23159 MUS_GM_2302 TR1 v1

This test result relates only to the described test object.

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The test is traceable to national standard or related international standard

Contents

Contents 2

- Test Request Information 3
- Test Laboratory Information 4
- Test Summary..... 5
- Test Sample Information 6
- Test Setup Pictures 7
- Test Equipment Used 8
- Test Results 9
- Document Revisions..... 29

- **Test Request Information**

Test Request #:	4301692748
Test requested by:	Shashank Lakshmikanth GM Milford Proving Grounds Building 40 3300 GM Road, Milford MI, 48380
Approved Test Plan Number:	MY24_High_RFRV_EIRP_Freq_Stab_Test Plan_VCU_1_0 - BV_0525
Test Plan Revision:	1.0
Test Method:	FCC CFR 15.215c
Deviations from Test Plan:	None
Date test started:	08/19/2023
Date test finished:	09/01/2023

Test Item Information

Test item description:	RF2.6 Frequency Stability
Sample Number(s):	J23159-NAR#3
Part Number(s):	7511.401.147-08
Hardware Version of DUT:	N/A
Software Version:	N/A
Component Category of DUT:	N/A
Date test sample received:	08/03/2023

- **Test Laboratory Information**

Location of Test Lab:	The radiated and conducted emissions test sites are located at Bureau Veritas 815 N. Opdyke Rd #100, Auburn Hills, MI 48326, Phone: +1-248-836-4700
Key Contact:	Jason Kanakry (General Manager) Jason.Kanakry@BureauVeritas.com Phone: +1-248-836-4747
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	5678.01
FCC Test Site Number:	US1278 (242530)
IC Test Site Number:	US0229 (26240)

- **Test Summary**

The following is a summary of the test results.

The detailed test results can be found in the appropriate sections of this report:

Test Item	Sample #	Result
RF2.6 Frequency Stability	J23159-NAR#3	Test Data Provided

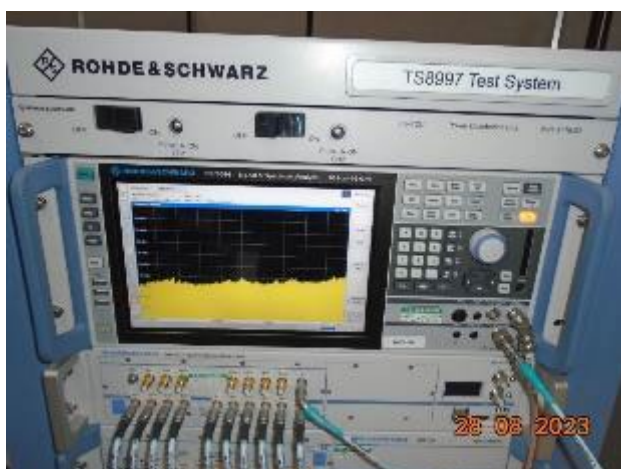
- **Test Sample Information**

J23159-NAR#3



- **Test Setup Pictures**

Frequency Stability Setup Pictures



- **Test Equipment Used**

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0414	Temperature Chamber	ESPEC	EPZ-2H	0142398B	6/16/2025
BVD0305	DC power supply 1-15VDC 60A 110/220 11.5A max input	BK Precision	1693	257C19123	N/A
BVD0226	Spectrum Analyzer 10Hz-44GHz	Rohde & Schwarz	FSV3044	101018	4/14/2024
BVD0299	Laptop	Lenovo	E480	PF185FS3	N/A
BVD0430	Multimeter	Fluke	117	49710262SV	11/11/2023

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Cable Harness	GM	N/A	1002151265 A	N/A
N/A	USB to Ethernet Dongle	D-link	DUB-E100	S7291GC000740	N/A
N/A	vcu_wlan_rta_tool_v3_0	N/A	N/A	N/A	2_9_5
N/A	BTcli Tooling_bt_rta_tool_v0_3	N/A	N/A	N/A	0_3

• Test Results

1. RF2.6 Frequency Stability

1.1 Test Data

Test Mode	DUT Operation Mode	Temperature Condition	Frequency Stability (GHz)		
			11.5V	13.5V	15V
3	Continuous transmitting on 2412 MHz 802.11 b-mode 2Mbps	-40°C	2.4120322320	2.4120321990	2.4120314990
	Continuous transmitting on 2412 MHz 802.11 b-mode 2Mbps	20°C	2.4120063000	2.4120066000	2.4120086330
	Continuous transmitting on 2412 MHz 802.11 b-mode 2Mbps	50°C	2.4119800000	2.4119796340	2.4119795670
4	Continuous transmitting on 2437 MHz 802.11 b-mode 2Mbps	-40°C	2.4370325990	2.3470325650	2.4370325990
	Continuous transmitting on 2437 MHz 802.11 b-mode 2Mbps	20°C	2.4370061330	2.4370059990	2.4370058660
	Continuous transmitting on 2437 MHz 802.11 b-mode 2Mbps	50°C	2.4369792670	2.4369792670	2.4369793340
5	Continuous transmitting on 2462 MHz 802.11 b-mode 2Mbps	-40°C	2.4620329660	2.4620329990	2.4620329320
	Continuous transmitting on 2462 MHz 802.11 b-mode 2Mbps	20°C	2.4620056660	2.4620057660	2.4620059000
	Continuous transmitting on 2462 MHz 802.11 b-mode 2Mbps	50°C	2.4619794670	2.4619794670	2.4619790000
	Continuous transmitting on 2412 MHz 802.11 g-mode 24Mbps	-40°C	2.4120320990	2.4120319990	2.4120319660

6	Continuous transmitting on 2412 MHz 802.11 g-mode 24Mbps	20°C	2.4120056000	2.4120055660	2.4120055660
	Continuous transmitting on 2412 MHz 802.11 g-mode 24Mbps	50°C	2.4119793670	2.4119794000	2.4119795670
7	Continuous transmitting on 2437 MHz 802.11 g-mode 24Mbps	-40°C	2.4370325990	2.4370325320	2.4370324320
	Continuous transmitting on 2437 MHz 802.11 g-mode 24Mbps	20°C	2.4370055330	2.4370055660	2.4370056660
	Continuous transmitting on 2437 MHz 802.11 g-mode 24Mbps	50°C	2.4369792010	2.4369791670	2.4369791000
8	Continuous transmitting on 2462 MHz 802.11 g-mode 24Mbps	-40°C	2.4620327990	2.4620326650	2.4620326650
	Continuous transmitting on 2462 MHz 802.11 g-mode 24Mbps	20°C	2.4620056000	2.4620055330	2.4620055330
	Continuous transmitting on 2462 MHz 802.11 g-mode 24Mbps	50°C	2.4619788670	2.4619788670	2.4619789340
9	Continuous transmitting on 2412 MHz 802.11 n20-mode MCS2	-40°C	2.4120320320	2.4120319990	2.4120319320
	Continuous transmitting on 2412 MHz 802.11 n20-mode MCS2	20°C	2.4120053660	2.4120053660	2.4120054660
	Continuous transmitting on 2412 MHz 802.11 n20-mode MCS2	50°C	2.4119792680	2.4119792680	2.4119792680
	Continuous transmitting on 2437 MHz 802.11 n20-mode MCS2	-40°C	2.4370324990	2.4370326320	2.4370327660

10	Continuous transmitting on 2437 MHz 802.11 n20-mode MCS2	20°C	2.4370053660	2.4370053000	2.4370052330
	Continuous transmitting on 2437 MHz 802.11 n20-mode MCS2	50°C	2.4369790340	2.4369790670	2.4369790670
11	Continuous transmitting on 2462 MHz 802.11 n20-mode MCS2	-40°C	2.4620326990	2.4620328990	2.4620326650
	Continuous transmitting on 2462 MHz 802.11 n20-mode MCS2	20°C	2.4620053660	2.4620053660	2.4620053660
	Continuous transmitting on 2462 MHz 802.11 n20-mode MCS2	50°C	2.4619788340	2.4619788340	2.4619788340
12	Continuous transmitting on 2412 MHz 802.11 ax20-mode MCS0	-40°C	2.4120320320	2.4120320320	2.4120318990
	Continuous transmitting on 2412 MHz,802.11 ax20-mode	20°C	2.4120056000	2.4120055330	2.4120055330
	Continuous transmitting on 2412 MHz 802.11 ax20-mode MCS0	50°C	2.4119793010	2.4119793010	2.4119799010
13	Continuous transmitting on 2437 MHz 802.11 ax20-mode MCS0	-40°C	2.4370322320	2.4370326990	2.4370326650
	Continuous transmitting on 2437 MHz 802.11 ax20-mode MCS0	20°C	2.4370048670	2.4370049330	2.4370052000
	Continuous transmitting on 2437 MHz 802.11 ax20-mode MCS0	50°C	2.4369790680	2.4369789340	2.4369788680
	Continuous transmitting on 2462 MHz 802.11 ax20-mode MCS0	-40°C	2.4620326990	2.4620327320	2.4620327320

14	Continuous transmitting on 2462 MHz 802.11 ax20-mode MCS0	20°C	2.4620055330	2.4620055000	2.4620054000
	Continuous transmitting on 2462 MHz 802.11 ax20-mode MCS0	50°C	2.4619788000	2.4619787670	2.4619787670
15	Continuous transmitting on 5180MHz 802.11 a-mode 24Mbps	-40°C	5.1800572320	5.1800568990	5.1800543990
	Continuous transmitting on 5180MHz 802.11 a-mode 24Mbps	20°C	5.1800102660	5.1800083000	5.1800081000
	Continuous transmitting on 5180MHz 802.11 a-mode 24Mbps	50°C	5.1799547680	5.1799543350	5.1799542680
16	Continuous transmitting on 5200 MHz 802.11 a-mode 24Mbps	-40°C	5.2000576980	5.2000579310	5.2000580980
	Continuous transmitting on 5200 MHz 802.11 a-mode 24Mbps	20°C	5.2000079000	5.2000079000	5.2000079000
	Continuous transmitting on 5200 MHz 802.11 a-mode 24Mbps	50°C	5.1999539350	5.1999539680	5.1999540020
17	Continuous transmitting on 5240 MHz 802.11 a-mode 24Mbps	-40°C	5.2400589980	5.2400583980	5.2400578650
	Continuous transmitting on 5240 MHz 802.11 a-mode 24Mbps	20°C	5.240025000	5.2400074660	5.2400074330
	Continuous transmitting on 5240 MHz 802.11 a-mode 24Mbps	50°C	5.2399534350	5.2399534350	5.2399535680
18	Continuous transmitting on 5745 MHz 802.11 a-mode 24Mbps	-40°C	5.7450637640	5.7450655980	5.7450657310

	Continuous transmitting on 5745 MHz 802.11 a-mode 24Mbps	20°C	5.7450054000	5.7450054000	5.745023000
	Continuous transmitting on 5745 MHz 802.11 a-mode 24Mbps	50°C	5.7449487850	5.7449484180	5.7449483180
19	Continuous transmitting on 5785 MHz 802.11 a-mode 24Mbps	-40°C	5.7850662000	5.7850662000	5.7850662000
	Continuous transmitting on 5785 MHz 802.11 a-mode 24Mbps	20°C	5.7850050330	5.7850054000	5.7850054330
	Continuous transmitting on 5785 MHz, 802.11 a-mode 24Mbps	50°C	5.7849477350	5.7849477690	5.7849477690
20	Continuous transmitting on 5825 MHz 802.11 a-mode 24Mbps	-40°C	5.8250676640	5.8250676640	5.8250686310
	Continuous transmitting on 5825 MHz 802.11 a-mode 24Mbps	20°C	5.8250047330	5.8250049000	5.8250053330
	Continuous transmitting on 5825 MHz 802.11 a-mode 24Mbps	50°C	5.8249473350	5.8249472680	5.8249472350
21	Continuous transmitting on 5180MHz 802.11 n20-mode MCS6	-40°C	5.1800565650	5.1800579320	5.1800579980
	Continuous transmitting on 5180MHz 802.11 n20-mode MCS6	20°C	5.1800054330	5.1800061000	5.1800061330
	Continuous transmitting on 5180MHz 802.11 n20-mode MCS6	50°C	5.1799536690	5.1799536020	5.1799536020
22	Continuous transmitting on 5200 MHz 802.11 n20-mode MCS6	-40°C	5.2000585310	5.2000584640	5.2000580310

	Continuous transmitting on 5200 MHz 802.11 n20-mode MCS6	20°C	5.2000063660	5.2000062660	5.200021000
	Continuous transmitting on 5200 MHz 802.11 n20-mode MCS6	50°C	5.1999535680	5.1999535680	5.1999535680
23	Continuous transmitting on 5240 MHz 802.11 n20-mode MCS6	-40°C	5.2400585980	5.2400588980	5.2400590310
	Continuous transmitting on 5240 MHz 802.11 n20-mode	20°C	5.2400067000	5.2400065330	5.2400065000
	Continuous transmitting on 5240 MHz, 802.11 n20-mode MCS6	50°C	5.2399532350	5.2399532020	5.2399533020
24	Continuous transmitting on 5745 MHz 802.11 n20-mode MCS0	-40°C	5.7450674640	5.7450674310	5.7450653310
	Continuous transmitting on 5745 MHz 802.11 n20-mode MCS0	20°C	5.7450041000	5.7450045670	5.7450066330
	Continuous transmitting on 5745 MHz 802.11 n20-mode MCS0	50°C	5.7449488350	5.7449484680	5.7449483350
25	Continuous transmitting on 5785 MHz 802.11 n20-mode MCS0	-40°C	5.7850676310	5.7850675980	5.7850675650
	Continuous transmitting on 5785 MHz 802.11 n20-mode MCS0	20°C	5.7850040000	5.7850037000	5.7850035670
	Continuous transmitting on 5785 MHz 802.11 n20-mode MCS0	50°C	5.7849478020	5.7849478020	5.7849478690
26	Continuous transmitting on 5825 MHz 802.11 n20-mode MCS0	-40°C	5.8250688970	5.8250687970	5.8250684310

	Continuous transmitting on 5825 MHz 802.11 n20-mode MCS0	20°C	5.8250027000	5.8250029000	5.8250034670
	Continuous transmitting on 5825 MHz 802.11 n20-mode MCS0	50°C	5.8249472690	5.8249472690	5.8249474020
27	Continuous transmitting on 5190 MHz 802.11 n40-mode MCS5	-40°C	5.1900596310	5.1900594310	5.1900583980
	Continuous transmitting on 5190 MHz 802.11 n40-mode MCS5	20°C	5.1900054660	5.1900054000	5.1900051000
	Continuous transmitting on 5190 MHz 802.11 n40-mode MCS5	50°C	5.1899533690	5.1899533690	5.1899531690
28	Continuous transmitting on 5230 MHz 802.11 n40-mode MCS5	-40°C	5.2300596650	5.2300602650	5.2300603650
	Continuous transmitting on 5230 MHz 802.11 n40-mode MCS5	20°C	5.2300057330	5.2300057330	5.2300056000
	Continuous transmitting on 5230 MHz 802.11 n40-mode MCS5	50°C	5.2299531020	5.2299531020	5.2299531350
29	Continuous transmitting on 5755 MHz 802.11 n40-mode MCS0	-40°C	5.7550680310	5.7550679650	5.7550677310
	Continuous transmitting on 5755 MHz 802.11 n40-mode MCS0	20°C	5.7550055000	5.7550055330	5.7550059660
	Continuous transmitting on 5755 MHz 802.11 n40-mode MCS0	50°C	5.7549483680	5.7549483350	5.7549481680
30	Continuous transmitting on 5795 MHz 802.11 n40-mode MCS0	-40°C	5.7950683310	5.7950683310	5.7950683650

	Continuous transmitting on 5795 MHz 802.11 n40-mode MCS0	20°C	5.7950056660	5.7950056660	5.7950056660
	Continuous transmitting on 5795 MHz 802.11 n40-mode MCS0	50°C	5.7949477020	5.7949477690	5.7949477690
31	Continuous transmitting on 5180MHz 802.11 ac20-mode MCS8	-40°C	5.1800583320	5.1800583980	5.1800577650
	Continuous transmitting on 5180MHz 802.11 ac20-mode MCS8	20°C	5.1800054000	5.1800058000	5.1800060330
	Continuous transmitting on 5180MHz 802.11 ac20-mode MCS8	50°C	5.1799538690	5.1799537020	5.1799537350
32	Continuous transmitting on 5200 MHz 802.11 ac20-mode MCS8	-40°C	5.2000561640	5.2000573310	5.2000576980
	Continuous transmitting on 5200 MHz, 802.11 ac20-mode MCS8	20°C	5.2000063660	5.2000063000	5.2000062000
	Continuous transmitting on 5200 MHz 802.11 ac20-mode MCS8	50°C	5.1999535680	5.1999535680	5.1999536350
33	Continuous transmitting on 5240 MHz 802.11 ac20-mode MCS8	-40°C	5.2400586650	5.2400585320	5.2400580980
	Continuous transmitting on 5240 MHz 802.11 ac20-mode MCS8	20°C	5.2400066000	5.2400065660	5.2400066000
	Continuous transmitting on 5240 MHz 802.11 ac20-mode MCS8	50°C	5.2399533350	5.2399532680	5.2399532350
34	Continuous transmitting on 5745 MHz 802.11 ac20-mode MCS5	-40°C	5.7450668640	5.7450668640	5.7450660980

	Continuous transmitting on 5745 MHz 802.11 ac20-mode MCS5	20°C	5.7450070330	5.7450060660	5.7450058330
	Continuous transmitting on 5745 MHz 802.11 ac20-mode MCS5	50°C	5.7449482350	5.7449484350	5.7449495020
35	Continuous transmitting on 5785 MHz 802.11 ac20-mode MCS5	-40°C	5.7850673310	5.7850673970	5.7850674310
	Continuous transmitting on 5785 MHz 802.11 ac20-mode MCS5	20°C	5.7850054660	5.7850055000	5.7850058330
	Continuous transmitting on 5785 MHz 802.11 ac20-mode MCS5	50°C	5.7849479020	5.7849478350	5.7849478020
36	Continuous transmitting on 5825 MHz 802.11 ac20-mode MCS5	-40°C	5.8250681640	5.8250681310	5.8250680310
	Continuous transmitting on 5825 MHz 802.11 ac20-mode MCS5	20°C	5.8250053000	5.8250048330	5.8250046000
	Continuous transmitting on 5825 MHz 802.11 ac20-mode MCS5	50°C	5.8249473350	5.8249472680	5.8249472680
37	Continuous transmitting on 5190 MHz 802.11 ac40-mode MCS4	-40°C	5.1900581310	5.1900590310	5.1900591980
	Continuous transmitting on 5190 MHz 802.11 ac40-mode MCS4	20°C	5.1900056000	5.1900055660	5.1900054000
	Continuous transmitting on 5190 MHz 802.11 ac40-mode MCS4	50°C	5.1899534350	5.1899535020	5.1899536020
38	Continuous transmitting on 5230 MHz 802.11 ac40-mode MCS4	-40°C	5.2300604650	5.2300602980	5.2300596310

	Continuous transmitting on 5230 MHz 802.11 ac40-mode MCS4	20°C	5.2300057330	5.2300059000	5.2300059000
	Continuous transmitting on 5230 MHz 802.11 ac40-mode MCS4	50°C	5.2299533350	5.2299532680	5.2299532680
39	Continuous transmitting on 5755 MHz 802.11 ac40-mode MCS1	-40°C	5.7550659650	5.7550673650	5.7550676310
	Continuous transmitting on 5755 MHz 802.11 ac40-mode MCS1	20°C	5.7550061330	5.7550055000	5.7550052330
	Continuous transmitting on 5755 MHz 802.11 ac40-mode MCS1	50°C	5.7549485690	5.7549483020	5.7549482350
40	Continuous transmitting on 5795 MHz 802.11 ac40-mode MCS1	-40°C	5.7950681640	5.7950681640	5.7950680980
	Continuous transmitting on 5795 MHz 802.11 ac40-mode MCS1	20°C	5.7950049330	5.7950051000	5.7950053000
	Continuous transmitting on 5795 MHz 802.11 ac40-mode MCS1	50°C	5.7949478020	5.7949478350	5.7949478690
41	Continuous transmitting on 5210 MHz 802.11 ac80-mode MCS7	-40°C	5.210017000	5.210017000	5.210018000
	Continuous transmitting on 5210 MHz 802.11 ac80-mode MCS7	20°C	5.2100049000	5.2100051000	5.2100052000
	Continuous transmitting on 5210 MHz 802.11 ac80-mode MCS7	50°C	5.2099534350	5.2099534350	5.2099534350
42	Continuous transmitting on 5775 MHz 802.11 ac80-mode MCS7	-40°C	5.7750685310	5.7750685310	5.7750678310

	Continuous transmitting on 5775 MHz 802.11 ac80-mode MCS7	20°C	5.7750052330	5.7750052660	5.7750057000
	Continuous transmitting on 5775 MHz 802.11 ac80-mode MCS7	50°C	5.7749481690	5.7749482020	5.7749481690
43	Continuous transmitting on 5180MHz 802.11 ax20-mode MCS0	-40°C	5.1800567320	5.1800578980	5.1800579980
	Continuous transmitting on 5180MHz 802.11 ax20-mode MCS0	20°C	5.1800058330	5.1800057000	5.1800054660
	Continuous transmitting on 5180MHz 802.11 ax20-mode MCS0	50°C	5.1799536350	5.1799536020	5.1799534020
44	Continuous transmitting on 5200 MHz 802.11 ax20-mode MCS0	-40°C	5.2000585980	5.2000583640	5.2000578980
	Continuous transmitting on 5200 MHz 802.11 ax20-mode MCS0	20°C	5.2000060660	5.2000059660	5.2000060330
	Continuous transmitting on 5200 MHz 802.11 ax20-mode MCS0	50°C	5.1999536020	5.1999535690	5.1999535350
45	Continuous transmitting on 5240 MHz 802.11 ax20-mode MCS0	-40°C	5.2400587320	5.2400590650	5.2400592320
	Continuous transmitting on 5240 MHz 802.11 ax20-mode MCS0	20°C	5.2400062000	5.2400061660	5.2400062660
	Continuous transmitting on 5240 MHz 802.11 ax20-mode MCS0	50°C	5.2399532350	5.2399532680	5.2399532680
46	Continuous transmitting on 5745 MHz 802.11 ax20-mode MCS2	-40°C	5.7450638310	5.7450666310	5.7450667650

	Continuous transmitting on 5745 MHz 802.11 ax20-mode MCS2	20°C	5.7450062330	5.7450053000	5.7450051660
	Continuous transmitting on 5745 MHz 802.11 ax20-mode MCS2	50°C	5.7449484690	5.7449483690	5.7449480350
47	Continuous transmitting on 5785 MHz 802.11 ax20-mode MCS2	-40°C	5.7850674980	5.7850674980	5.7850674310
	Continuous transmitting on 5785 MHz 802.11 ax20-mode MCS2	20°C	5.7850047670	5.7850050660	5.7850052330
	Continuous transmitting on 5785 MHz 802.11 ax20-mode MCS2	50°C	5.8249470010	5.8249470680	5.8249472680
48	Continuous transmitting on 5825 MHz 802.11 ax20-mode MCS2	-40°C	5.8250683980	5.8250686980	5.8250686980
	Continuous transmitting on 5825 MHz 802.11 ax20-mode MCS2	20°C	5.8250050660	5.8250049000	5.8250050000
	Continuous transmitting on 5825 MHz 802.11 ax20-mode MCS2	50°C	5.8249470010	5.8249469340	5.8249469010
49	Continuous transmitting on 5190 MHz 802.11 ax40-mode MCS0	-40°C	5.1900593980	5.1900591310	5.1900580650
	Continuous transmitting on 5190 MHz 802.11 ax40-mode MCS0	20°C	5.1900052000	5.1900054330	5.1900055330
	Continuous transmitting on 5190 MHz 802.11 ax40-mode MCS0	50°C	5.1899534690	5.1899536350	5.1899536690
50	Continuous transmitting on 5230 MHz 802.11 ax40-mode MCS0	-40°C	5.2300594980	5.2300601650	5.2300605320

	Continuous transmitting on 5230 MHz 802.11 ax40-mode MCS0	20°C	5.2300056660	5.2300056330	5.230017000
	Continuous transmitting on 5230 MHz 802.11 ax40-mode MCS0	50°C	5.2299533350	5.2299533010	5.2299533680
51	Continuous transmitting on 5755 MHz 802.11 ax40-mode MCS0	-40°C	5.7550674310	5.7550678650	5.7550679310
	Continuous transmitting on 5755 MHz 802.11 ax40-mode MCS0	20°C	5.7550059000	5.7550052000	5.7550051000
	Continuous transmitting on 5755 MHz 802.11 ax40-mode MCS0	50°C	5.7549484690	5.7549482690	5.7549482690
52	Continuous transmitting on 5795 MHz 802.11 ax40-mode MCS0	-40°C	5.7950682650	5.7950681310	5.7950682310
	Continuous transmitting on 5795 MHz 802.11 ax40-mode MCS0	20°C	5.7950050000	5.7950050000	5.7950051660
	Continuous transmitting on 5795 MHz 802.11 ax40-mode MCS0	50°C	5.7949478350	5.7949478350	5.7949479350
53	Continuous transmitting on 5210 MHz 802.11 ax80-mode MCS2	-40°C	5.2100603310	5.2100600980	5.2100591310
	Continuous transmitting on 5210 MHz 802.11 ax80-mode MCS2	20°C	5.2100050660	5.2100050660	5.2100046000
	Continuous transmitting on 5210 MHz 802.11 ax80-mode MCS2	50°C	5.2099536350	5.2099534680	5.2099534350
54	Continuous transmitting on 5775 MHz 802.11 ax80-mode MCS2	-40°C	5.7750680980	5.7750686980	5.7750687310

	Continuous transmitting on 5775 MHz 802.11 ax80-mode MCS2	20°C	5.7750081660	5.7750050000	5.7750047670
	Continuous transmitting on 5775 MHz 802.11 ax80-mode MCS2	50°C	5.7749481680	5.7749481680	5.7749483350
55	Continuous transmitting on 2402 MHz, BT 5.2 DM1	-40°C	2.402017393	2.402020342	2.40202017
	Continuous transmitting on 2402 MHz, BT 5.2 DM1	20°C	2.402005092	2.402003872	2.402006297
	Continuous transmitting on 2402 MHz, BT 5.2 DM1	50°C	2.401976945	2.401977342	2.40197751
56	Continuous transmitting on 2441 MHz, BT 5.2 DM1	-40°C	2.441019798	2.441020028	2.441019823
	Continuous transmitting on 2441 MHz, BT 5.2 DM1	20°C	2.441006228	2.441005874	2.44100589
	Continuous transmitting on 2441 MHz, BT 5.2 DM1	50°C	2.440977101	2.440976969	2.44097702
57	Continuous transmitting on 2480 MHz, BT 5.2 DM1	-40°C	2.480020165	2.480020246	2.480020976
	Continuous transmitting on 2480 MHz, BT 5.2 DM1	20°C	2.480006132	2.480005883	2.480005622
	Continuous transmitting on 2480 MHz, BT 5.2 DM1	50°C	2.479975953	2.479976308	2.479976235
58	Continuous transmitting on 2402 MHz, BT 5.2 2-DH1	-40°C	2.402016097	2.402015908	2.402015765

	Continuous transmitting on 2402 MHz, BT 5.2 2-DH1	20°C	2.402001992	2.402001979	2.402001974
	Continuous transmitting on 2402 MHz, BT 5.2 2-DH1	50°C	2.401973336	2.401973221	2.401973225
59	Continuous transmitting on 2441 MHz, BT 5.2 2-DH1	-40°C	2.441016288	2.44101628	2.441016318
	Continuous transmitting on 2441 MHz, BT 5.2 2-DH1	20°C	2.441002356	2.441002055	2.441002142
	Continuous transmitting on 2441 MHz, BT 5.2 2-DH1	50°C	2.440972703	2.440972767	2.440972825
60	Continuous transmitting on 2480 MHz, BT 5.2 2-DH1	-40°C	2.480016455	2.480016601	2.480016542
	Continuous transmitting on 2480 MHz, BT 5.2 2-DH1	20°C	2.480002392	2.480002163	2.480002211
	Continuous transmitting on 2480 MHz, BT 5.2 2-DH1	50°C	2.479972691	2.479972902	2.479972701
61	Continuous transmitting on 2402 MHz, BT 5.2 3-DH5	-40°C	2.40201535	2.402015393	2.402015303
	Continuous transmitting on 2402 MHz, BT 5.2 3-DH5	20°C	2.402001335	2.402001395	2.402001336
	Continuous transmitting on 2402 MHz, BT 5.2 3-DH5	50°C	2.401972355	2.401972288	2.401972234
62	Continuous transmitting on 2441 MHz, BT 5.2 3-DH5	-40°C	2.441016383	2.441016255	2.4410165

	Continuous transmitting on 2441 MHz, BT 5.2 3-DH5	20°C	2.441002159	2.441002032	2.441001898
	Continuous transmitting on 2441 MHz, BT 5.2 3-DH5	50°C	2.440972237	2.44097242	2.440972181
63	Continuous transmitting on 2480 MHz, BT 5.2 3-DH5	-40°C	2.48001669	2.480016882	2.480016565
	Continuous transmitting on 2480 MHz, BT 5.2 3-DH5	20°C	2.48000184	2.480001872	2.480001871
	Continuous transmitting on 2480 MHz, BT 5.2 3-DH5	50°C	2.47997172	2.479971778	2.479971823
64	Hopping on all channels, BT 5.2	-40°C	N/A		
	Hopping on all channels, BT 5.2	20°C	N/A		
	Hopping on all channels, BT 5.2	50°C	N/A		
65	Hopping on all channels, BT 5.2	-40°C	N/A		
	Hopping on all channels, BT 5.2	20°C	N/A		
	Hopping on all channels, BT 5.2	50°C	N/A		
66	Hopping on all channels, BT 5.2	-40°C	N/A		

	Hopping on all channels, BT 5.2	20°C	N/A		
	Hopping on all channels, BT 5.2	50°C	N/A		
67	Continuous transmitting on 2402 MHz, BT LE 1MHz	-40°C	2.402023906	2.402024034	2.402024057
	Continuous transmitting on 2402 MHz, BT LE 1MHz	20°C	2.402009819	2.402009735	2.402009995
	Continuous transmitting on 2402 MHz, BT LE 1MHz	50°C	2.401980802	2.401980794	2.401980717
68	Continuous transmitting on 2440 MHz, BT LE 1MHz	-40°C	2.440024407	2.440024388	2.440024218
	Continuous transmitting on 2440 MHz, BT LE 1MHz	20°C	2.440009962	2.44000989	2.440009915
	Continuous transmitting on 2440 MHz, BT LE 1MHz	50°C	2.439980619	2.439980717	2.439980529
69	Continuous transmitting on 2480 MHz, BT LE 1MHz	-40°C	2.48002369	2.480023584	2.480023565
	Continuous transmitting on 2480 MHz, BT LE 1MHz	20°C	2.480009621	2.480009625	2.480009883
	Continuous transmitting on 2480 MHz, BT LE 1MHz	50°C	2.479980111	2.479979961	2.479980048
70	Continuous transmitting on 2402 MHz, BT LE 2MHz	-40°C	2.402031644	2.40203152	2.402031463

	Continuous transmitting on 2402 MHz, BT LE 2MHz	20°C	2.402017923	2.402017897	2.402017891
	Continuous transmitting on 2402 MHz, BT LE 2MHz	50°C	2.401988713	2.401988756	2.401988805
71	Continuous transmitting on 2440 MHz, BT LE 2MHz	-40°C	2.440031556	2.440031664	2.440031368
	Continuous transmitting on 2440 MHz, BT LE 2MHz	20°C	2.440017377	2.44001736	2.440017462
	Continuous transmitting on 2440 MHz, BT LE 2MHz	50°C	2.439987772	2.439987579	2.439987585
72	Continuous transmitting on 2480 MHz, BT LE 2MHz	-40°C	2.480031308	2.480031429	2.480031453
	Continuous transmitting on 2480 MHz, BT LE 2MHz	20°C	2.480016823	2.480016274	2.480017041
	Continuous transmitting on 2480 MHz, BT LE 2MHz	50°C	2.479987078	2.479987097	2.479987129
73	Continuous transmitting on 5745 MHz, 802.11 ax20 RU-mode MCS2	-40°C	5.745011885	5.745013425	5.745015681
	Continuous transmitting on 5745 MHz, 802.11 ax20 RU-mode MCS2	20°C	5.745085236	5.745069213	5.7450818
	Continuous transmitting on 5745 MHz, 802.11 ax20 RU-mode MCS2	50°C	5.745009645	5.745006879	5.745018427
74	Continuous transmitting on 5785 MHz, 802.11 ax20 RU-mode MCS2	-40°C	5.785094983	5.78511702	5.785113104

	Continuous transmitting on 5785 MHz, 802.11 ax20 RU-mode MCS2	20°C	5.785191415	5.785193817	5.785178636
	Continuous transmitting on 5785 MHz, 802.11 ax20 RU-mode MCS2	50°C	5.785120295	5.785047448	5.785151396
75	Continuous transmitting on 5825 MHz, 802.11 ax20 RU-mode MCS2	-40°C	5.825007748	5.824992445	5.825036006
	Continuous transmitting on 5825 MHz, 802.11 ax20 RU-mode MCS2	20°C	5.825110858	5.825104407	5.825121009
	Continuous transmitting on 5825 MHz, 802.11 ax20 RU-mode MCS2	50°C	5.825042264	5.825042264	5.825032558
76	Continuous transmitting on 5755 MHz, 802.11 ax40 RU242-mode MCS0	-40°C	5.75442989	5.75446642	5.754460054
	Continuous transmitting on 5755 MHz, 802.11 ax40 RU242-mode MCS0	20°C	5.754405919	5.754409222	5.754413417
	Continuous transmitting on 5755 MHz, 802.11 ax40 RU242-mode MCS0	50°C	5.754364648	5.75436031	5.754385507
77	Continuous transmitting on 5795 MHz, 802.11 ax40 RU242-mode MCS0	-40°C	5.795773528	5.795693375	5.795693012
	Continuous transmitting on 5795 MHz, 802.11 ax40 RU242-mode MCS0	20°C	5.795635944	5.795644018	7.79564103
	Continuous transmitting on 5795 MHz, 802.11 ax40 RU242-mode	50°C	5.795580413	5.795599284	5.795573535

	MCS0				
78	Continuous transmitting on 5755 MHz, 802.11 ax40 RU484-mode MCS0	-40°C	5.755148863	5.755167733	5.755177801
	Continuous transmitting on 5755 MHz, 802.11 ax40 RU484-mode MCS0	20°C	5.755107554	5.755114291	5.755115128
	Continuous transmitting on 5755 MHz, 802.11 ax40 RU484-mode MCS0	50°C	5.755027639	5.75500179	5.755024242
79	Continuous transmitting on 5795 MHz, 802.11 ax40 RU484-mode MCS0	-40°C	5.79512148	5.795166022	5.795176609
	Continuous transmitting on 5795 MHz, 802.11 ax40 RU484-mode MCS0	20°C	5.795100994	5.795154064	5.795092548
	Continuous transmitting on 5795 MHz, 802.11 ax40 RU484-mode MCS0	50°C	5.794985589	5.794990285	5.794964422
80	Continuous transmitting on 5775 MHz, 802.11 ax80 RU484-mode MCS2	-40°C	5.775108815	5.775104635	5.775114929
	Continuous transmitting on 5775 MHz, 802.11 ax80 RU484-mode MCS2	20°C	5.775040469	5.77502552	5.775048622
	Continuous transmitting on 5775 MHz, 802.11 ax80 RU484-mode MCS2	50°C	5.775003628	5.77500753	5.775004983

- **Document Revisions**

Version	Date	Modifier	Changes
1.0	09/01/2023	Aravind Buddana	• Initial Release

End of Report