



1. Original General Descriptions of EUT

Equipment		Referenced Device	Model Variant Device
FCC ID		UDX-60079010	UDX-60079011
FCC Granted Date		04/22/2019 (for NII) 01/18/2019 (for DTS)	TBD
Product		4x4 802.11a/b/g/n/ac/ax Access Point	4x4 Wi-Fi 6 Access Point
Brand		Cisco	Cisco
Applicant		Cisco Systems, Inc.	Cisco Systems, Inc.
Test Model		MR45-HW	MR46-HW
RF characteristics		WLAN 2.4GHz 2412 – 2462 MHz	WLAN 2.4GHz 2412 – 2462 MHz
		WLAN 5GHz 5180.0 - 5240.0 MHz 5260.0 - 5320.0 MHz 5500.0 - 5720.0 MHz 5745.0 - 5825.0 MHz	WLAN 5GHz 5180.0 - 5240.0 MHz 5260.0 - 5320.0 MHz 5500.0 - 5720.0 MHz 5745.0 - 5825.0 MHz
		BT LE 2402 – 2480 MHz	BT LE 2402 – 2480 MHz
Hardware	Difference	N.A.	1. TI TPS23751PWPR re-layout to MPS MP8009GV: (no affect PoE function.) 2. TI TLV62569DBVR adding 2nd source change (DC-DC Pin to Pin) 3. BT chip change: from EFR32MG13 to EFR32MG21 within the device (non-Pin to Pin)

Note:

UDX-60079010 Original Report No.: RF180704E03D-1, SA180704E03D, 12659283-E1V2, RF180704E03, RF180704E03-1, RF180704E03-2, RF180704E03-3, SA180704E03.

And there is C1PC report (Report No.: RF180704E03H, RF180704E03H-1, RF180704E03H-2) for adding change name MR46HW, change product name to 4x4 Wi-Fi 6 Access Point, Gen2 chip revise Gen1 chip's bug and added one new POE.

Modifications did not affect radio components and did not degrade the characteristics reported in original filing.

Due to above, it radio result reference to UDX-60079010 Original report (Report No.: RF180704E03D-1, SA180704E03D, 12659283-E1V2, RF180704E03, RF180704E03-1, RF180704E03-2, RF180704E03-3, SA180704E03.)



2. Referencing test items

Part 15C

FCC Clause	Test Items	Referenced Test Data	Note
15.247(b)	Conducted Output Power	Y	Only for Wi-Fi 2.4G, BLE is re-test.
15.207	AC Power Line Conducted Emission	Y	
15.205/ 15.209/ 15.247(d)	Radiated Emissions and Band Edge Measurement	Y	
15.247(d)	Antenna Port Emission	Y	
15.247(a)(2)	6dB bandwidth	Y	
15.247(e)	Power Density	Y	

Part 15E

FCC Clause	Test Items	Referenced Test Data	Note
15.407(a)(1/2/3)	Conducted Output Power	Y	
15.207	AC Power Line Conducted Emission	Y	
15.407(b) (1/2/3/4 (i/ii))	Radiated Emissions and Band Edge Measurement	Y	
15.407(a)(1/2/3)	26dBc bandwidth	Y	
-	99% Occupied bandwidth	Y	
15.407(e)	6dB bandwidth	Y	
15.407(a)(1/2/3)	Power Density	Y	
15.407(g)	Frequency Stability	Y	
15.407(h)	DFS	Y	

3. Spot- Check Test Plan

Amount of test samples: 1 sample

Equipment Class	FCC Rule Part	Test Items	Frequency Band	Test Modes	Test Channel
DTS	Part 15C	Conducted output power/ Radiated emission – Band edge and Harmonics	2412-2462 MHz	802.11 b	CH 6 (Worse power Mode)
NII	Part 15E	Conducted output power/ Radiated emission – Band edge and Harmonics	5180-5240MHz, 5260-5320MHz, 5500-5720MHz 5745-5825MHz	802.11 ax 20MHz,	CH 149 (Worse power Mode)
		DFS		DFS Detection Threshold Channel Availability Check Time Channel Move Time Channel Closing Transmission Time	CH100/CH106



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				Non-Occupancy Period U-NII Detection Bandwidth and Statistical Performance Check	
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Note1: RF Conducted output power were confirmed and the same as Referenced Device (FCC ID: UDX-60079010)

Note2: DFS FW change as below, and the change was not affect the DFS function in the new Firmware. It also had spot check for the DFS.

Original FW	New FW	Different
T-201903052123-G2b2dfdd5 -L630F066d-samrat-brook	29-20231121832-G86bba517-rel- apar tment	Add support for new PHY chip, AQR115C-B1-C Add support for new BLE chip, EFR32MG21 Upgrade Linux kernel to 4.4.302Upgrade QCA wlan to SPF 11.3 CS SBA26 The rest would be features and bug fixes.