



1 Introduction Section

The original model: AP5660W-RoHS (FCC ID: H8NAP5660W) and the variant model: GRYPHON AX (FCC ID: H8NGRYPHONAX) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi. Based on their similarity, the FCC Part 15C & 15E (equipment class: DTS, NII) test data issued for original model also apply for the variant model.

The applicant takes full responsibility that the test data as referenced in section 3 below represent compliance for this FCC ID (FCC ID: H8NGRYPHONAX).



2 Difference Section

The original model : AP5660W-RoHS(FCC ID: H8NAP5660W) and the variant model : GRYPHON AX (FCC ID: H8NGRYPHONAX) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi. The details of similarity and difference can be found in the Operating Description.

The product specification is outlined in the following table:

FCC ID		H8NGRYPHONAX	
Wireless Tech	Mode	Frequency (MHz)	
Wi-Fi	11b, 11g, 11n(HT20/40), VHT20/40, 11ax(HEW20/40)	2412-2462	2412-2462
	11a, 11n(HT20/40), 11ac(VHT20/40/80), 11ax(HEW20/40/80)	5180-5240 5745-5825	5180-5240 5745-5825
Bluetooth	BR/EDR/LE	NA	2402-2480



3 Spot Check Verification Data Section

Summary of the spot check:

Test Item	Mode	H8NAP5660W Worst Result	H8NGRYPHONAX Worst Result	Deviation (dB)
Average Conducted Power (dBm)	Non-Beamforming Mode: 802.11ax EW40_Nss1,(MCS0)_2TX	20.96	20.95	0.01
	Beamforming Mode 802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.58	20.57	0.01
	Non-Beamforming Mode: 802.11ax HEW80_Nss1,(MCS0)_4TX	24.84	24.83	0.01
	Beamforming Mode 802.11ax HEW40-BF_Nss1,(MCS0)_4TX	24.51	24.50	0.01

Peak Radiated Spurious Emission (Band Edge) (dBuV/m)	Non-Beamforming Mode: 802.11ax EW40_Nss1,(MCS0)_2TX	58.36	59.89	-1.53
	Beamforming Mode 802.11ax HEW20-BF_Nss1,(MCS0)_2TX	71.92	71.65	0.27
	Non-Beamforming Mode: 802.11ax HEW80_Nss1,(MCS0)_4TX	65.77	64.93	0.84
	Beamforming Mode 802.11ax HEW40-BF_Nss1,(MCS0)_4TX	72.57	72.47	0.10



Referencing Test Data Comparison Table

Test Item	Mode	H8NAP5660W Worst Result	H8NGRYPHONAX Worst Result	Deviation (dB)
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	Non-Beamforming Mode: 802.11ax HEW40_Nss1,(MCS0)_2TX	53.68	53.70	-0.02
	Beamforming Mode 802.11ax HEW20-BF_Nss1,(MCS0)_2TX	47.94	49.94	-2.00
	Non-Beamforming Mode: 802.11ax HEW80_Nss1,(MCS0)_4TX	53.62	53.54	0.08
	Beamforming Mode 802.11ax HEW40-BF_Nss1,(MCS0)_4TX	50.41	49.73	0.68



Conclusion:

WLAN Radiated spurious emission test against the variant model for non-cellular part based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model.

The unwanted, harmonics, radiated spurious emission is reported peak measurement only due to spurious lower than 20dB than the limit.

The detail test results can be found in this document, original report Appendix A~B, hereafter.