

12/13/2023

To Whom It May Concern:

Samsung Electronics Co Ltd

Here by apply for Class II Permission Change to the approved product under FCC ID:

A3LWCD940M, when applied in the Wi-Fi/BT Transceiver due to the design of the platform resulting in greater than 20 cm distance to the human body.

Full testing was performed by scope 1 changes and radiated emission testing was additionally performed by scope 2 changes, due to the following:

- The product with FCC ID: A3LWCD940M module was assessed as compliant to radiated emission limits per 15.247 and 15.407 in its initial FCC approval.
- The change file under this application is:

Scope 1: Add 6G WIFI Bands

	Operation frequency	FVIN
Original	2402 MHz ~ 2480 MHz 2412 MHz ~ 24172 MHz UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz	FC 4
New	2402 MHz ~ 2480 MHz 2412 MHz ~ 24172 MHz UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz UNII-5: 5925 MHz ~ 6425 MHz UNII-6: 6425 MHz ~ 6525 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6875 MHz ~ 7125 MHz	*.0.*

Scope 2: Changed in antenna matching circuit:

	Operation frequency	Component parameters on circuit diagram
Original	2402 MHz ~ 2480 MHz 2412 MHz ~ 24172 MHz UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz	ANT0: C208:3.6nH; C307:0.5pF; L505:100pF; C306:68nH;  ANT1: C399:100nH; L501:0.5pF; C303:68nH; C304:0.2pF;  BT0: L213:1.5pF; C212:68nH;  BT1: C216:3.3nH; C215:4.3nH.
New	2402 MHz ~ 2480 MHz	ANT0:

2412 MHz ~ 24172 MHz UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz UNII-5: 5925 MHz ~ 6425 MHz UNII-6: 6425 MHz ~ 6525 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6875 MHz ~ 7125 MHz	C208:1.5nH; C307:NC; L505:0.7pF; C306:27nH;  ANT1: C399:NC; L501:1pF; C303:NC; C304:0.3pF;  BT0: L213:1.8pF; C212:2.2pF;  BT1: C216:5.6nH; C215:NC.
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For Scope 1, The additional frequencies UNII-5: 5925 MHz ~ 6425 MHz, UNII-6: 6425 MHz ~ 6525 MHz, UNII-7: 6525 MHz ~ 6875 MHz, and UNII-8: 6875 MHz ~ 7125 MHz need to be tested.

For Scope 2, Based on the conducted test point from module, the new ANT Matching will not impact the conducted test result, so there is only retest for Radiates Spurious Emission on DTS, DSS, UNII-1: 5150 MHz ~ 5250 MHz, UNII-2A: 5250 MHz ~ 5350 MHz, UNII-2C: 5470 MHz ~ 5725 MHz, UNII-3: 5725 MHz ~ 5850 MHz, refer to the retest result, those modifications in the equipment which do not degrade the characteristics, so C1PC has been used for modification, for the test items, please refer to the original test report.

Please kindly review the application documents submitted and grant approval for this Permissive Change application.

Sincerely yours,



(Signature)

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