APPENDIX J: RU SAR EXCLUSION

J.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax/be can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T, 996T and 996Tx2, and for WIFI 6E additionally 996Tx4.

Per FCC Guidance, 802.11ax/be was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

J.2 RU Target Powers

J.2.1 2.4 GHz 802.11ax/be RU WLAN Output Power

The table below is applicable in the following conditions:

Pmax, DSI=0 (Body-worn, Hotspot, or Phablet), DSI=1 (Head)

		IEEE 802.11ax/be RU (in dBm)											
Mode		SISO Ant H (in dBm)				SISO Ant J (in dBm)				Antenna 1 & Antenna 2 in MIMO			
		26T	52T	106T	242T	26T	52T	106T	242T	26T	52T	106T	242T
2.4 GHz WIFI		15	16	17	17	15	16	17	17	15	16	17	17
	Maximum	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0	ch. 12: 6.0
		ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0	ch. 13: 0.0
		14	15	16	16	14	15	16	16	14	15	16	16
	Nominal	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0	ch. 12: 5.0
		ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0	ch. 13: -1.0

J.2.2 5 GHz 802.11ax/be RU WLAN Output Power

The table below is applicable in the following conditions:

The table below is applicable in the following conditions:

DSI=1 (Head)

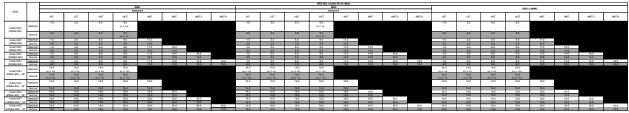


FCC ID: A3LSMS928B	SAR EVALUATION REPORT	Approved by:	
		Technical Manager	
DUT Type: Portable Handset		APPENDIX J: Page 1 of 2	

J.2.3 6 GHz 802.11ax/be RU WLAN Output Power

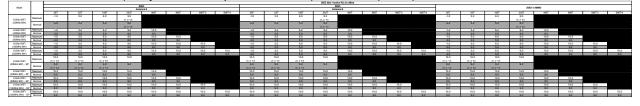
The table below is applicable in the following conditions:

• Pmax



The table below is applicable in the following conditions:

DSI=0 (Body-worn, Hotspot, or Phablet) or DSI=1 (Head)



FCC ID: A3LSMS928B	SAR EVALUATION REPORT	Approved by:	
		Technical Manager	
DUT Type: Portable Handset	APPENDIX J: Page 2 of 2		