

APPENDIX I: RU SAR EXCLUSION

I.1 IEEE 802.11ax/be 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, 52T+26T, 106T, 106+26T, 242T, 484T, 484+242T, 996T, 996+484T, 996T+484T+242T, and 996Tx2 and for WIFI 6E additionally 996T*2+484T, 996T*3, 996T*3+484T, 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/be 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. Please refer to 1M2504070040-06, 08, 10, 12 for IEEE 802.11ax/be RU powers.

I.2 IEEE 802.11ax/be RU Target Powers

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

The table below is applicable in the following conditions:

- Pmax
- DSI=0 (F/O Body)
- DSI = 1 (F/C Body)
- DSI = 2 (F/O Head)
- DSI = 3 (F/C Head)

Band		IEEE 802.11ax/be RU (in dBm)											
		SISO Ant H (in dBm)				SISO Ant F (in dBm)				Antenna H & Antenna F in MIMO			
		26T	52T, 52T + 26T	106T, 106T + 26T	242T	26T	52T, 52T + 26T	106T, 106T + 26T	242T	26T	52T, 52T + 26T	106T, 106T + 26T	242T
2.45 GHz	Maximum	14	15	16	18 ch. 11: 17.5	14	15	16	18 ch. 11: 17.5	14	15	16	18 ch. 11: 17.5
	Nominal	13	14	15	17 ch. 11: 16.5	13	14	15	17 ch. 11: 16.5	13	14	15	17 ch. 11: 16.5

FCC ID A3LSMF966JPN	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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I.2.2 5 GHz WLAN 802.11ax/be RU WLAN Output Power

The table below is applicable in the following conditions:

- Pmax
- DSI = 2 (F/O Head)
- DSI = 3 (F/C Head)

Mode	Band	IEEE 802.11a (n dBm)														IEEE 802.11b (n dBm)														Antenna F & Antenna E in MIMO													
		Antenna F							Antenna E							Antenna F							Antenna E							Antenna F & Antenna E in MIMO													
		26T	SUT, S2T + 26T	100T, 100T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T, 968T + 484T + 242T	596T/2	26T	SUT, S2T + 26T	100T, 100T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T, 968T + 484T + 242T	596T/2	26T	SUT, S2T + 26T	100T, 100T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T, 968T + 484T + 242T	596T/2	26T	SUT, S2T + 26T	100T, 100T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T, 968T + 484T + 242T	596T/2														
S GHz Wi-Fi (20MHz BW)	UNI-1	10.0	13.0	16.0		18.0		10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0																	
	UNI-2A	10.0	13.0	16.0	ch. 36	18.0		10.0	13.0	16.0	ch. 36	18.0			10.0	13.0	16.0	ch. 36	18.0			10.0	13.0	16.0	ch. 36	18.0																	
	UNI-2C	10.0	13.0	16.0	ch. 54	18.0		10.0	13.0	16.0	ch. 54	18.0			10.0	13.0	16.0	ch. 54	18.0			10.0	13.0	16.0	ch. 54	18.0																	
	UNI-3	10.0	13.0	16.0	ch. 100	18.0	15.5	10.0	13.0	16.0	ch. 100	18.0	15.5	10.0	13.0	16.0	ch. 100	18.0	15.5	10.0	13.0	16.0	ch. 100	18.0	15.5	10.0	13.0	16.0	ch. 100	18.0	15.5												
	UNI-4	10.0	13.0	16.0		18.0		10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0																	
	UNI-1	9.0	12.0	15.0	ch. 36	17.0		9.0	12.0	15.0	ch. 36	17.0			9.0	12.0	15.0	ch. 36	17.0			9.0	12.0	15.0	ch. 36	17.0																	
	UNI-2A	9.0	12.0	15.0	ch. 54	17.0		9.0	12.0	15.0	ch. 54	17.0			9.0	12.0	15.0	ch. 54	17.0			9.0	12.0	15.0	ch. 54	17.0																	
	UNI-2C	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												
	UNI-3	9.0	12.0	15.0		17.0		9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0																	
	UNI-4	9.0	12.0	15.0	ch. 36	17.0	15.5	9.0	12.0	15.0	ch. 36	17.0	15.5	9.0	12.0	15.0	ch. 36	17.0	15.5	9.0	12.0	15.0	ch. 36	17.0	15.5	9.0	12.0	15.0	ch. 36	17.0	15.5												
S GHz Wi-Fi (40MHz BW)	UNI-1	10.0	13.0	16.0	ch. 52	18.0	15.0	10.0	13.0	16.0	ch. 52	18.0	15.0	10.0	13.0	16.0	ch. 52	18.0	15.0	10.0	13.0	16.0	ch. 52	18.0	15.0	10.0	13.0	16.0	ch. 52	18.0	15.0												
	UNI-2A	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0												
	UNI-2C	10.0	13.0	16.0	ch. 156	18.0	15.0	10.0	13.0	16.0	ch. 156	18.0	15.0	10.0	13.0	16.0	ch. 156	18.0	15.0	10.0	13.0	16.0	ch. 156	18.0	15.0	10.0	13.0	16.0	ch. 156	18.0	15.0												
	UNI-3	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0												
	UNI-4	10.0	13.0	16.0		18.0		10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0																	
	UNI-1	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5												
	UNI-2A	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												
	UNI-2C	9.0	12.0	15.0	ch. 156	17.0	15.5	9.0	12.0	15.0	ch. 156	17.0	15.5	9.0	12.0	15.0	ch. 156	17.0	15.5	9.0	12.0	15.0	ch. 156	17.0	15.5	9.0	12.0	15.0	ch. 156	17.0	15.5												
	UNI-3	9.0	12.0	15.0		17.0		9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0																	
	UNI-4	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5	9.0	12.0	15.0	ch. 52	17.0	15.5												
S GHz Wi-Fi (80MHz BW)	UNI-1	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0												
	UNI-2A	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0												
	UNI-2C	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0												
	UNI-3	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0												
	UNI-4	10.0	13.0	16.0		18.0		10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0																	
	UNI-1	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												
	UNI-2A	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5												
	UNI-2C	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5												
	UNI-3	9.0	12.0	15.0		17.0		9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0																	
	UNI-4	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												
S GHz Wi-Fi (160MHz BW)	UNI-1	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0	10.0	13.0	16.0	ch. 100	18.0	15.0												
	UNI-2A	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0	10.0	13.0	16.0	ch. 204	18.0	15.0												
	UNI-2C	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0	10.0	13.0	16.0	ch. 308	18.0	15.0												
	UNI-3	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0	10.0	13.0	16.0	ch. 412	18.0	15.0												
	UNI-4	10.0	13.0	16.0		18.0		10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0			10.0	13.0	16.0		18.0																	
	UNI-1	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												
	UNI-2A	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5	9.0	12.0	15.0	ch. 204	17.0	15.5												
	UNI-2C	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5	9.0	12.0	15.0	ch. 308	17.0	15.5												
	UNI-3	9.0	12.0	15.0		17.0		9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0			9.0	12.0	15.0		17.0																	
	UNI-4	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5	9.0	12.0	15.0	ch. 100	17.0	15.5												

The table below is applicable in the following conditions:

- DSI=0 (F/O Body)
- DSI = 1 (F/C Body)

Mode	Band	IEEE 802.11n RU (in dBm)																		Antenna A & Antenna E in MIMO									
		SSB									SSB									Antenna A & Antenna E in MIMO									
		Antenna S									Antenna S									Antenna A & Antenna E in MIMO									
		26T	52T, 52T + 26T	104T, 104T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T 998T + 484T + 242T	998T?	26T	52T, 52T + 26T	104T, 104T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T 998T + 484T + 242T	998T?	26T	52T, 52T + 26T	104T, 104T + 26T	242T	484T, 484T + 242T	968T, 968T + 484T 998T + 484T + 242T	998T?							
S GHz WIF (20MHz BW)	Low	Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
S GHz WIF (40MHz BW)	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
S GHz WIF (80MHz BW)	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
S GHz WIF (160MHz BW)	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								
	Low	13.0	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0		Low	13.0	16.0	18.0	20.0	22.0								

FCC ID A3LSMF966JPN	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 2 of 3

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

The table below is applicable in the following conditions:

- Pmax
- DSI = 2 (F/O Head)
- DSI = 3 (F/C Head)

[illegible]

The table below is applicable in the following conditions:

- DSI=0 (F/O Body)
- DSI = 1 (F/C Body)

[illegible]

FCC ID A3LSMF966JPN	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 3 of 3