

APPENDIX H: IEEE 802.11 RU SAR EXCLUSION

H.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, 106T+26T, 242T, 484T, 484T+242T, 996T, 996T+484T, 996T+484T+242T, 996T*2, 996T+484, and 996+484+242.

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 1M2601220004-05, 07, 09, 11 for IEEE 802.11ax/be RU powers.

H.2 IEEE 802.11ax/be RU Target Powers

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

Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)							
		Antenna 1							
		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.45 GHz		10.0	9.0	13.0	12.0	15.0	14.0	17.0 ch. 1: 14.0 ch. 11: 14.0	16.0 13.0 13.0

H.2.2 2.4 GHz WLAN Reduced 802.11ax/be RU WLAN Output Power

Mode	Band	IEEE 802.11ax/be RU Modulated/Frame Output Power (in dBm)							
		Antenna 1							
		26T		52T, 52T+26T		106T, 106T+26T		242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.45 GHz		10.0	9.0	12.0	11.0	12.0	11.0	12.0	11.0

H.2.3 5 GHz WLAN Maximum 802.11ax/be RU WLAN Output Power

Mode	Band	IEEE 802.11ax/be RU Modulated Output Power (in dBm)											
		Antenna 1											
		26T		52T, 52T+26T		106T, 106T+26T		242T		996T, 996T+484T, 996T+484T+242T		996T*2, 996T+484T, 996T+484T+242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-2A	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-2C	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-3	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-4	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
5 GHz WIFI (40MHz BW)	UNII-1	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-2A	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-2C	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-3	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
	UNII-4	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0				
5 GHz WIFI (80MHz BW)	UNII-1	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0		
	UNII-2A	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0		
	UNII-2C	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0		
	UNII-3	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0		
	UNII-4	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0		
5 GHz WIFI (160MHz BW)	UNII-1/2A	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-2C	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-3/4	7.0	6.0	11.0	10.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0

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H.2.4 5 GHz WLAN Reduced 802.11ax/be RU WLAN Output Power

Mode	Band	IEEE 802.11ax/be RU Modulated Output Power (in dBm)											
		Antenna 1											
		26T		52T, 52T+26T		106T, 106T+26T		242T		996T, 996T+484T, 996T+484T+242T		996T*2, 996T+484T, 996T+484T+242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-2A	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-2C	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-3	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-4	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
5 GHz WIFI (40MHz BW)	UNII-1	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-2A	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-2C	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-3	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
	UNII-4	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0				
5 GHz WIFI (80MHz BW)	UNII-1	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0		
	UNII-2A	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0		
	UNII-2C	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0		
	UNII-3	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0		
	UNII-4	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0		
5 GHz WIFI (160MHz BW)	UNII-1/2A	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-2C	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-3/4	7.0	6.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0

H.2.5 6 GHz WLAN Maximum 802.11ax/be RU WLAN Output Power

Mode	Band	IEEE 802.11ax/be RU Modulated Output Power (in dBm)													
		Antenna 1													
		26T		52T, 52T+26T		106T, 106T+26T		242T		484T, 484T+242T		996T, 996T+484T, 996T+484T+242T		996T*2, 996T+484T, 996T+484T+242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0						
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0						
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0						
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0						
6 GHz WiFi (40MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0				
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0				
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0				
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0				
6 GHz WiFi (80MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0		
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0		
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0		
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0		
6 GHz WiFi (160MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	9.0	8.0	12.0	11.0	12.0	11.0	12.0	11.0
IEEE 802.11ax/be RU Modulated Output Power (in dBm)															
Mode	Band	Antenna 1													
		26T		52T, 52T+26T		106T, 106T+26T		242T		484T, 484T+242T		996T, 996T+484T		996T*2, 996T+484T, 996T+484T+242T	
		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
6 GHz WiFi (40MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
6 GHz WiFi (80MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
6 GHz WiFi (160MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0

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H.2.6 6 GHz WLAN Reduced 802.11ax/be RU WLAN Output Power

Mode	Band	IEEE 802.11ax/be RU Modulated Output Power (in dBm)													
		Antenna 1													
		26T		52T, 52T+26T		106T, 106T+26T		242T		484T, 484T+242T		996T, 996T+484T, 996T+484T+242T		996T*2, 996T+484T, 996T+484T+242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0						
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0						
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0						
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0						
6 GHz WIFI (40MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0				
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0				
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0				
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0				
6 GHz WIFI (80MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0		
6 GHz WIFI (160MHz BW) - LPI	UNII-5	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-6	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-7	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-8	-1.0	-2.0	2.0	1.0	5.0	4.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
Mode	Band	IEEE 802.11ax/be RU Modulated Output Power (in dBm)													
		Antenna 1													
		26T		52T, 52T+26T		106T, 106T+26T		242T		484T, 484T+242T		996T, 484T+242T		996T*2, 996T+484T, 996T+484T+242T	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0						
6 GHz WIFI (40MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0				
6 GHz WIFI (80MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0		
6 GHz WIFI (160MHz BW) - VLP	UNII-5	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-6	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-7	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-8	-2.0	-3.0	1.0	0.0	4.0	3.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0

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