

APPENDIX I: IEEE 802.11AX RU SAR EXCLUSION

I.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax 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 and 996T.

Per FCC Guidance, 802.11ax 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.

I.2 IEEE 802.11ax RU Target Powers

I.2.1 Maximum 802.11ax RU WLAN Output Power

IEEE 802.11ax RU (in dBm)																
Tones	SISO								MIMO							
	Antenna 2								2.4GHz							
	2.4GHz				2.4GHz				2.4GHz				2.4GHz			
	Nominal				Maximum				Nominal				Maximum			
26T	10.5				11.5				13.5				14.5			
	Ch. 12: 5.0				Ch. 12: 6.0				Ch. 12: 8.0				Ch. 12: 9.0			
	Ch. 13: -1.0				Ch. 13: 0.0				Ch. 13: 2.0				Ch. 13: 3.0			
52T	13.5				14.5				16.5				17.5			
	Ch. 12: 5.0				Ch. 12: 6.0				Ch. 12: 8.0				Ch. 12: 9.0			
	Ch. 13: -1.0				Ch. 13: 0.0				Ch. 13: 2.0				Ch. 13: 3.0			
106T	15.0				16.0				18.0				19.0			
	Ch. 12: 5.0				Ch. 12: 6.0				Ch. 12: 8.0				Ch. 12: 9.0			
	Ch. 13: -1.0				Ch. 13: 0.0				Ch. 13: 2.0				Ch. 13: 3.0			
242T	15.0				16.0				18.0				19.0			
	Ch. 1: 13.5				Ch. 1: 14.5				Ch. 1: 16.5				Ch. 1: 17.5			
	Ch. 2: 13.5				Ch. 2: 14.5				Ch. 2: 16.5				Ch. 2: 17.5			
	Ch. 10: 13.5				Ch. 10: 14.5				Ch. 10: 16.5				Ch. 10: 17.5			
	Ch. 11: 13.5				Ch. 11: 14.5				Ch. 11: 16.5				Ch. 11: 17.5			
	Ch. 12: 5.0				Ch. 12: 6.0				Ch. 12: 8.0				Ch. 12: 9.0			
	Ch. 13: -1.0				Ch. 13: 0.0				Ch. 13: 2.0				Ch. 13: 3.0			

IEEE 802.11ax RU (in dBm)																
Tones	SISO Antenna 1								MIMO							
	5GHz 20MHz				5GHz 40MHz				5GHz 80MHz				5GHz 160MHz			
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
52T	12.5	13.5	12.5	13.5	12.5	13.5	12.5	13.5	15.5	16.5	15.5	16.5	15.5	16.5	15.5	16.5
106T	15.5	16.5	15.5	16.5	15.5	16.5	15.5	16.5	18.5	19.5	18.5	19.5	18.5	19.5	18.5	19.5
242T	16.0	17.0	14.0	15.0	13.0	14.0	13.0	14.0	19.0	20.0	17.0	18.0	16.0	17.0	16.0	17.0
484T			14.0	15.0	13.0	14.0	13.0	14.0			17.0	18.0	16.0	17.0	16.0	17.0
996T			Ch. 102: 13.5	Ch. 102: 14.5							Ch. 102: 16.5	Ch. 102: 17.5				

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I.2.2 Reduced 802.11ax RU WLAN Output Power

The below table is applicable in the following conditions:

- Simultaneous conditions with 5 GHz WLAN
- RCV Active
- RCV Active during simultaneous conditions with 5 GHz WLAN

IEEE 802.11ax RU (in dBm)				
Tones	SISO Antenna 2		MIMO	
	2.4GHz		2.4GHz	
	Nominal	Maximum	Nominal	Maximum
26T	10.5	11.5	13.5	14.5
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
52T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
106T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
242T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0

The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN
- RCV Active
- RCV Active during simultaneous conditions with 2.4 GHz WLAN

IEEE 802.11ax RU (in dBm)																
Tones	SISO Antenna 1								MIMO							
	5GHz 20MHz		5GHz 40MHz		5GHz 80MHz		5GHz 160MHz		5GHz 20MHz		5GHz 40MHz		5GHz 80MHz		5GHz 160MHz	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
52T	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
106T	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
242T	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
484T			10.0	11.0	10.0	11.0	10.0	11.0			13.0	14.0	13.0	14.0	13.0	14.0
996T					10.0	11.0	10.0	11.0					13.0	14.0	13.0	14.0

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I.3 IEEE 802.11ax Measured Powers

Table I-1
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 2

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	11.37	2412	1	52T	37	14.49
			4	11.03				38	14.12
			8	11.31				40	14.25
2437	6	26T	0	11.27	2437	6	52T	37	14.39
			4	11.32				38	14.21
			8	11.49				40	14.36
2462	11	26T	0	11.42	2462	11	52T	37	14.22
			4	11.01				38	14.17
			8	11.15				40	14.39
Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.65	2412	1	242T	61	14.44
			54	15.84	2417	2	242T	61	14.39
2437	6	106T	53	15.45	2422	3	242T	61	15.62
			54	15.34	2437	6	242T	61	15.98
2462	11	106T	53	15.75	2452	9	242T	61	15.87
			54	15.52	2457	10	242T	61	14.02
					2462	11	242T	61	14.32

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Table I-2
Maximum 2.4 GHz 802.11ax RU Output Power – MIMO

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	14.21	2412	1	52T	37	17.42
			4	14.07				38	17.26
			8	14.27				40	17.16
2437	6	26T	0	14.38	2437	6	52T	37	17.23
			4	14.21				38	17.27
			8	14.32				40	17.41
2462	11	26T	0	14.38	2462	11	52T	37	17.28
			4	14.04				38	17.30
			8	14.10				40	17.45
Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
					2412	1	242T	61	17.38
2412	1	106T	53	18.83	2417	2	242T	61	17.30
			54	18.77	2422	3	242T	61	18.74
2437	6	106T	53	18.56	2437	6	242T	61	18.93
			54	18.55	2452	9	242T	61	18.78
2462	11	106T	53	18.67	2457	10	242T	61	17.16
			54	18.67	2462	11	242T	61	17.37

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Table I-3
Maximum 5 GHz 802.11ax RU Output Power – Ant 1

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
	1	5180	36	26T	10.96	10.61	10.93
20MHz BW	1	5200	40	26T	10.90	10.52	10.80
		5240	48	26T	10.97	10.63	10.64
		5260	52	26T	10.93	10.71	10.99
	2A	5280	56	26T	10.83	10.92	10.82
		5320	64	26T	10.96	10.71	10.66
		5500	100	26T	10.97	10.46	10.91
	2C	5600	120	26T	10.64	10.83	10.76
		5720	144	26T	10.82	10.63	10.54
		5745	149	26T	10.98	10.73	10.72
	3	5785	157	26T	10.54	10.82	10.73
		5825	165	26T	10.88	10.73	10.76
		5845	169	26T	10.84	10.94	10.85
	4	5865	173	26T	10.68	10.66	10.77
		5885	177	26T	10.67	10.65	10.65
20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
	1	5180	36	52T	13.12	13.45	13.04
		5200	40	52T	13.28	13.47	13.25
		5240	48	52T	13.06	13.44	13.23
	2A	5260	52	52T	13.34	13.46	13.36
		5280	56	52T	13.49	13.27	13.48
		5320	64	52T	13.28	13.13	13.28
	2C	5500	100	52T	13.24	13.37	13.24
		5600	120	52T	13.25	13.07	13.27
		5720	144	52T	13.48	13.40	13.32
	3	5745	149	52T	13.32	13.27	13.41
		5785	157	52T	13.48	13.29	13.47
		5825	165	52T	13.09	13.40	13.13
	4	5845	169	52T	13.07	13.05	13.22
		5865	173	52T	13.14	12.95	13.18
		5885	177	52T	13.30	13.20	13.41

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)	
					RU Index	
					53	54
	1	5180	36	106T	16.04	16.00
20MHz BW	1	5200	40	106T	16.17	16.11
		5240	48	106T	16.46	15.93
		5260	52	106T	15.97	16.06
	2A	5280	56	106T	16.23	16.25
		5320	64	106T	16.43	16.46
		5500	100	106T	16.03	15.91
	2C	5600	120	106T	16.42	16.39
		5720	144	106T	16.11	16.30
		5745	149	106T	16.34	16.45
	3	5785	157	106T	16.40	16.44
		5825	165	106T	16.14	16.25
		5845	169	106T	16.35	16.46
	4	5865	173	106T	16.34	16.34
		5885	177	106T	16.38	16.46
20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)	
					RU Index	
					61	
	1	5180	36	242T	16.95	
		5200	40	242T	16.99	
		5240	48	242T	16.78	
	2A	5260	52	242T	16.64	
		5280	56	242T	16.76	
		5320	64	242T	16.97	
	2C	5500	100	242T	16.73	
		5600	120	242T	16.83	
		5720	144	242T	16.81	
	3	5745	149	242T	16.99	
		5785	157	242T	16.80	
		5825	165	242T	16.61	
	4	5845	169	242T	16.90	
		5865	173	242T	16.66	
		5885	177	242T	16.99	

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Table I-4
Maximum 5 GHz 802.11ax RU Output Power – Ant 1 Cont.

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	8	17						37	40	44
1	5190	38	26T	10.87	10.61	10.83	1	5190	38	52T	13.31	12.98	13.16		
	5230	46	26T	10.73	10.69	10.98		5230	46	52T	13.09	13.04	13.36		
2A	5270	54	26T	10.68	10.48	10.71	2A	5270	54	52T	13.38	13.43	13.22		
	5310	62	26T	10.98	10.95	10.65		5310	62	52T	13.18	13.16	13.44		
2C	5510	102	26T	10.50	10.86	10.94	2C	5510	102	52T	13.29	13.11	13.23		
	5590	118	26T	10.52	10.66	10.77		5590	118	52T	13.38	13.43	13.09		
	5710	142	26T	10.92	10.85	10.75		5710	142	52T	13.11	13.17	13.47		
3	5755	151	26T	10.57	10.95	10.85	3	5755	151	52T	13.25	13.27	13.31		
	5795	159	26T	10.64	10.53	10.94		5795	159	52T	13.11	13.31	13.21		
4	5835	167	26T	10.88	10.94	10.84	4	5835	167	52T	13.05	13.48	12.95		
	5875	175	26T	10.96	10.90	10.87		5875	175	52T	13.22	13.18	13.22		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)	
					RU Index								RU Index	
					53	54	56						61	62
1	5190	38	106T	16.36	16.14	16.19	1	5190	38	242T	14.62	14.79		
	5230	46	106T	16.20	16.09	16.39		5230	46	242T	14.89	14.99		
2A	5270	54	106T	16.28	16.46	16.20	2A	5270	54	242T	14.67	14.74		
	5310	62	106T	16.31	16.22	16.38		5310	62	242T	14.57	14.64		
2C	5510	102	106T	16.45	16.34	16.43	2C	5510	102	242T	14.94	14.98		
	5590	118	106T	16.19	16.41	16.40		5590	118	242T	14.95	14.94		
	5710	142	106T	16.47	16.38	16.34		5710	142	242T	14.96	14.71		
3	5755	151	106T	16.26	16.21	16.40	3	5755	151	242T	14.94	14.79		
	5795	159	106T	16.27	16.42	16.47		5795	159	242T	14.72	14.85		
4	5835	167	106T	16.09	16.49	16.38	4	5835	167	242T	14.75	14.85		
	5875	175	106T	16.26	16.12	16.42		5875	175	242T	14.87	14.87		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)
					RU Index
					65
1	5190	38	484T	14.61	
	5230	46	484T	14.93	
	5270	54	484T	14.69	
2A	5310	62	484T	14.58	
	5510	102	484T	14.02	
2C	5590	118	484T	14.92	
	5710	142	484T	14.94	
	5755	151	484T	14.96	
3	5795	159	484T	14.73	
	5835	167	484T	14.77	
4	5875	175	484T	14.84	

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Table I-5
Maximum 5 GHz 802.11ax RU Output Power – Ant 1 Cont.

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	18	36
80MHz BW	1	5210	42	26T	10.63	10.64	10.57
	2A	5290	58	26T	10.59	10.89	10.81
	2C	5530	106	26T	10.70	10.77	10.98
		5610	122	26T	10.72	10.82	10.67
		5690	138	26T	10.92	10.76	10.96
	3	5775	155	26T	10.96	10.93	10.93
	4	5855	171	26T	10.94	10.95	10.93
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
80MHz BW	1	5210	42	106T	16.23	16.38	16.23
	2A	5290	58	106T	16.24	16.03	16.47
	2C	5530	106	106T	16.41	16.19	16.32
		5610	122	106T	15.99	16.43	16.27
		5690	138	106T	16.25	16.41	16.41
	3	5775	155	106T	16.42	16.05	16.44
	4	5855	171	106T	16.46	15.86	16.43
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	66	
80MHz BW	1	5210	42	484T	13.87	13.66	
	2A	5290	58	484T	13.88	13.97	
	2C	5530	106	484T	13.86	13.98	
		5610	122	484T	13.87	13.99	
		5690	138	484T	13.84	13.99	
	3	5775	155	484T	13.35	13.58	
	4	5855	171	484T	13.87	13.46	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67		
80MHz BW	1	5210	42	996T	13.96		
	2A	5290	58	996T	13.83		
	2C	5530	106	996T	13.79		
		5610	122	996T	13.87		
		5690	138	996T	13.84		
	3	5775	155	996T	13.36		
	4	5855	171	996T	13.85		

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Table I-6
Maximum 5 GHz 802.11ax RU Lower Block Output Power– Ant 1

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
					1	5250	50						26T	10.82	10.81
2C	5570	114	26T	10.57	10.58	10.59	13.43	13.25	13.40						
4	5815	163	26T	10.84	10.84	10.87	13.04	13.05	13.04						

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	56	60						61	62	64
					1	5250	50						106T	16.16	16.12
2C	5570	114	106T	16.36	16.35	16.34	13.75	13.61	13.34						
4	5815	163	106T	16.10	16.09	16.09	13.67	13.79	13.84						

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)
					RU Index							RU Index
					65	66						
					1	5250						50
2C	5570	114	484T	13.53	13.33	13.99						
4	5815	163	484T	13.55	13.72	13.51						

Table I-7
Maximum 5 GHz 802.11ax RU Upper Block Output Power– Ant 1

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
	1	5250	50	26T	10.59	10.63	10.65	13.43	13.43	13.44					
2C	5570	114	26T	10.60	10.65	10.64	13.37	13.36	13.36						
4	5815	163	26T	10.62	10.62	10.64	13.42	13.40	13.42						

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	56	60						61	62	64
	1	5250	50	106T	16.24	16.23	16.22	13.66	13.78	13.47					
2C	5570	114	106T	16.16	16.24	16.20	13.42	13.55	13.93						
4	5815	163	106T	16.15	16.16	16.15	13.97	13.84	13.62						

160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		160MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)
					RU Index							RU Index
					65	66						
	1	5250	50	484T	13.52	13.88	13.54					
2C	5570	114	484T	13.33	13.71	13.38						
4	5815	163	484T	13.93	13.96	13.98						

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Table I-8
Maximum 5 GHz 802.11ax RU Output Power – MIMO

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 4	RU Index: 8
					MIMO	MIMO	MIMO
20MHz BW	1	5180	36	26T	13.94	13.68	13.84
		5200	40	26T	13.93	13.62	13.72
		5240	48	26T	13.86	13.79	13.78
	2A	5260	52	26T	13.85	13.77	13.95
		5280	56	26T	13.74	13.88	13.77
		5320	64	26T	13.81	13.76	13.69
	2C	5500	100	26T	13.96	13.70	13.88
		5600	120	26T	13.57	13.78	13.68
		5720	144	26T	13.80	13.70	13.75
	3	5745	149	26T	13.96	13.86	13.60
		5785	157	26T	13.54	13.76	13.74
		5825	165	26T	13.88	13.86	13.86
	4	5845	169	26T	13.78	13.86	13.80
		5865	173	26T	13.70	13.71	13.71
		5885	177	26T	13.81	13.83	13.77
20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 39	RU Index: 40
					MIMO	MIMO	MIMO
	1	5180	36	52T	16.05	16.22	16.14
		5200	40	52T	16.22	16.34	16.33
		5240	48	52T	16.06	16.25	16.26
	2A	5260	52	52T	16.38	16.33	16.19
		5280	56	52T	16.41	16.20	16.41
		5320	64	52T	16.17	16.22	16.11
	2C	5500	100	52T	16.35	16.26	16.29
		5600	120	52T	16.19	16.00	16.19
		5720	144	52T	16.43	16.33	16.21
	3	5745	149	52T	16.34	16.32	16.27
		5785	157	52T	16.43	16.28	16.46
		5825	165	52T	16.27	16.32	16.06
	4	5845	169	52T	16.15	16.22	16.23
		5865	173	52T	16.21	15.98	16.16
		5885	177	52T	16.38	16.24	16.41

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 53	RU Index: 54
					MIMO	MIMO
20MHz BW	1	5180	36	106T	19.18	19.05
		5200	40	106T	19.19	19.18
		5240	48	106T	19.33	19.11
	2A	5260	52	106T	19.09	19.17
		5280	56	106T	19.02	19.25
		5320	64	106T	19.20	19.43
	2C	5500	100	106T	19.02	19.02
		5600	120	106T	19.40	19.38
		5720	144	106T	19.17	19.37
	3	5745	149	106T	19.17	19.33
		5785	157	106T	19.34	19.36
		5825	165	106T	19.22	19.35
	4	5845	169	106T	19.11	19.28
		5865	173	106T	19.40	19.42
		5885	177	106T	19.42	19.43

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 61	
					MIMO	
20MHz BW	1	5180	36	242T	19.79	
		5200	40	242T	19.80	
		5240	48	242T	19.89	
	2A	5260	52	242T	19.78	
		5280	56	242T	19.82	
		5320	64	242T	19.89	
	2C	5500	100	242T	19.76	
		5600	120	242T	19.72	
		5720	144	242T	19.86	
	3	5745	149	242T	19.85	
		5785	157	242T	19.79	
		5825	165	242T	19.67	
	4	5845	169	242T	19.81	
		5865	173	242T	19.66	
		5885	177	242T	19.98	

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Table I-9
Maximum 5 GHz 802.11ax RU Output Power – MIMO Cont.

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 8	RU Index: 17						RU Index: 37	RU Index: 40	RU Index: 44
					MIMO	MIMO	MIMO						MIMO	MIMO	MIMO
1	5190	38	26T	13.76	13.79	13.87	1	5190	38	52T	16.14	16.03	16.31		
	5230	46	26T	13.79	13.77	13.89		5230	46	52T	15.99	16.05	16.44		
2A	5270	54	26T	13.58	13.72	13.68	2A	5270	54	52T	16.41	16.35	16.37		
	5310	62	26T	13.71	13.70	13.60		5310	62	52T	16.14	16.08	16.36		
2C	5510	102	26T	13.57	13.76	13.81	2C	5510	102	52T	16.33	16.08	16.16		
	5590	118	26T	13.58	13.78	13.70		5590	118	52T	16.24	16.41	16.04		
	5710	142	26T	13.88	13.75	13.84		5710	142	52T	16.27	16.25	16.33		
3	5755	151	26T	13.64	13.83	13.91	3	5755	151	52T	16.35	16.34	16.27		
	5795	159	26T	13.71	13.72	13.86		5795	159	52T	16.30	16.34	16.16		
4	5835	167	26T	13.78	13.74	13.92	4	5835	167	52T	16.04	16.45	16.07		
	5875	175	26T	13.73	13.76	13.93		5875	175	52T	16.32	16.15	16.24		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 53	RU Index: 54	RU Index: 56						RU Index: 61	RU Index: 62
					MIMO	MIMO	MIMO						MIMO	MIMO
1	5190	38	106T	19.43	19.32	19.34	1	5190	38	242T	17.71	17.83		
	5230	46	106T	19.32	19.26	19.31		5230	46	242T	17.86	17.79		
2A	5270	54	106T	19.37	19.41	19.33	2A	5270	54	242T	17.81	17.74		
	5310	62	106T	19.40	19.29	19.43		5310	62	242T	17.74	17.77		
2C	5510	102	106T	19.47	19.30	19.34	2C	5510	102	242T	17.96	17.99		
	5590	118	106T	19.31	19.31	19.35		5590	118	242T	17.92	17.92		
	5710	142	106T	19.34	19.42	19.42		5710	142	242T	17.86	17.78		
3	5755	151	106T	19.37	19.36	19.45	3	5755	151	242T	17.76	17.79		
	5795	159	106T	19.30	19.28	19.42		5795	159	242T	17.85	17.81		
4	5835	167	106T	19.17	19.33	19.41	4	5835	167	242T	17.75	17.81		
	5875	175	106T	19.35	19.17	19.38		5875	175	242T	17.83	17.81		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 65
					MIMO
1	5190	38	484T	17.79	
	5230	46	484T	17.91	
	5270	54	484T	17.85	
2A	5310	62	484T	17.80	
	5510	102	484T	17.03	
	5590	118	484T	17.90	
2C	5710	142	484T	17.85	
	5755	151	484T	17.83	
	5795	159	484T	17.68	
3	5835	167	484T	17.75	
	5875	175	484T	17.79	

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Table I-10
Maximum 5 GHz 802.11ax RU Output Power – MIMO Cont.

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
80MHz BW	1	5210	42	26T	13.63	13.81	13.55
	2A	5290	58	26T	13.60	13.92	13.77
	2C	5530	106	26T	13.81	13.88	13.84
		5610	122	26T	13.78	13.72	13.72
		5690	138	26T	13.95	13.86	13.81
	3	5775	155	26T	13.71	13.79	13.97
	4	5855	171	26T	13.80	13.74	13.77
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
80MHz BW	1	5210	42	106T	19.32	19.21	19.35
	2A	5290	58	106T	19.37	19.20	19.30
	2C	5530	106	106T	19.39	19.25	19.37
		5610	122	106T	19.16	19.21	19.32
		5690	138	106T	19.32	19.40	19.44
	3	5775	155	106T	19.31	19.12	19.36
	4	5855	171	106T	19.39	19.12	19.41
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
80MHz BW	1	5210	42	242T	16.97	16.73	16.88
	2A	5290	58	242T	16.74	16.97	16.53
	2C	5530	106	242T	16.95	16.87	16.56
		5610	122	242T	16.69	16.84	16.91
		5690	138	242T	16.93	16.90	16.51
	3	5775	155	242T	16.70	16.64	16.80
	4	5855	171	242T	16.81	16.81	16.71
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		Average Conducted Power (dBm)
					RU Index: 65	RU Index: 66	
					MIMO	MIMO	
80MHz BW	1	5210	42	484T	16.87	16.71	16.72
	2A	5290	58	484T	16.92	16.73	
	2C	5530	106	484T	16.82	16.95	
		5610	122	484T	16.76	16.82	
		5690	138	484T	16.81	16.96	
	3	5775	155	484T	16.54	16.54	
	4	5855	171	484T	16.70	16.53	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		Average Conducted Power (dBm)
					RU Index: 67	RU Index: 68	
					MIMO	MIMO	
80MHz BW	1	5210	42	996T	16.72	16.86	16.80
	2A	5290	58	996T	16.86	16.80	
	2C	5530	106	996T	16.80	16.80	
		5610	122	996T	16.76	16.76	
		5690	138	996T	16.84	16.84	
	3	5775	155	996T	16.66	16.66	
	4	5855	171	996T	16.80	16.80	

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Table I-11
Maximum 5 GHz 802.11ax RU Lower Block Output Power– MIMO

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36						RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO						MIMO	MIMO	MIMO
	1	5250	50	26T	13.88	13.89	13.89		1	5250	50	52T	16.30	16.33	16.34
	2C	5570	114	26T	13.69	13.66	13.67		2C	5570	114	52T	16.32	16.21	16.29
	4	5815	163	26T	13.90	13.92	13.94		4	5815	163	52T	16.10	16.07	16.05

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60						RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO						MIMO	MIMO	MIMO
	1	5250	50	106T	19.29	19.30	19.31		1	5250	50	242T	16.66	16.53	16.64
	2C	5570	114	106T	19.39	19.43	19.43		2C	5570	114	242T	16.81	16.71	16.50
	4	5815	163	106T	19.10	19.11	19.11		4	5815	163	242T	16.80	16.88	16.88

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 65	RU Index: 66						RU Index: 67
					MIMO	MIMO						MIMO
	1	5250	50	484T	16.86	16.80		1	5250	50	996T	16.85
	2C	5570	114	484T	16.60	16.44		2C	5570	114	996T	16.74
	4	5815	163	484T	16.68	16.79		4	5815	163	996T	16.61

Table I-12
Maximum 5 GHz 802.11ax RU Upper Block Output Power– MIMO

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36						RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO						MIMO	MIMO	MIMO
	1	5250	50	26T	13.79	13.64	13.68		1	5250	50	52T	16.45	16.44	16.47
	2C	5570	114	26T	13.78	13.82	13.82		2C	5570	114	52T	16.36	16.37	16.35
	4	5815	163	26T	13.71	13.69	13.67		4	5815	163	52T	16.30	16.29	16.29

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60						RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO						MIMO	MIMO	MIMO
	1	5250	50	106T	19.32	19.32	19.31		1	5250	50	242T	16.83	16.60	16.63
	2C	5570	114	106T	19.22	19.26	19.23		2C	5570	114	242T	16.56	16.69	16.81
	4	5815	163	106T	19.20	19.18	19.18		4	5815	163	242T	16.85	16.78	16.72

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 65	RU Index: 66						RU Index: 67
					MIMO	MIMO						MIMO
	1	5250	50	484T	16.73	16.76		1	5250	50	996T	16.74
	2C	5570	114	484T	16.41	16.78		2C	5570	114	996T	16.52
	4	5815	163	484T	16.79	16.87		4	5815	163	996T	16.90

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