

APPENDIX H: IEEE 802.11AX RU SAR EXCLUSION

1.1 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.

1.2 IEEE 802.11ax RU Target Powers

1.2.1 Maximum 802.11ax RU WLAN Output Power

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	14	10	9	9	14	10	9	9
		ch. 12: 9.0 ch. 13: 4.0				ch. 12: 9.0 ch. 13: 4.0			
	Nominal	13	9	8	8	13	9	8	8
		ch. 12: 8.0 ch. 13: 3.0				ch. 12: 8.0 ch. 13: 3.0			
52T	Maximum	16	12	11	10	16	12	11	10
		ch. 12: 9.0 ch. 13: 4.0				ch. 12: 9.0 ch. 13: 4.0			
	Nominal	15	11	10	9	15	11	10	9
		ch. 12: 8.0 ch. 13: 3.0				ch. 12: 8.0 ch. 13: 3.0			
106T	Maximum	18	15	12	12	18	15	12	12
		ch. 12: 9.0 ch. 13: 4.0				ch. 12: 9.0 ch. 13: 4.0			
	Nominal	17	14	11	11	17	14	11	11
		ch. 12: 8.0 ch. 13: 3.0				ch. 12: 8.0 ch. 13: 3.0			
242T	Maximum	18	17	15	15.5	18	17	15	15.5
		ch. 1: 16.5 ch. 11: 14.5 ch. 12: 9.0 ch. 13: 4.0				ch. 1: 16.5 ch. 11: 14.5 ch. 12: 9.0 ch. 13: 4.0			
	Nominal	17	16	14	14.5	17	16	14	14.5
		ch. 1: 15.5 ch. 11: 13.5 ch. 12: 8.0 ch. 13: 3.0				ch. 1: 15.5 ch. 11: 13.5 ch. 12: 8.0 ch. 13: 3.0			
484T	Maximum			16	15			16	15
				ch. 62: 15.0				ch. 62: 15.0	
	Nominal			15	14			15	14
				ch. 62: 14.0				ch. 62: 14.0	
996T	Maximum				15				15
	Nominal				14				14

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1.2.2 Reduced 802.11ax RU WLAN Output Power – Receiver Active

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	14	10	9	9	14	10	9	9
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	13	9	8	8	13	9	8	8
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
52T	Maximum	16	12	11	10	16	12	11	10
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	15	11	10	9	15	11	10	9
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
106T	Maximum	16	13	12	12	16	14	12	12
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	15	12	11	11	15	13	11	11
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
242T	Maximum	16	13	13	13	16	14	14	14
		ch. 11: 14.5 ch. 12: 9.0 ch. 13: 4.0				ch. 11: 14.5 ch. 12: 9.0 ch. 13: 4.0			
	Nominal	15	12	12	12	15	13	13	13
		ch. 11: 13.5 ch. 12: 8.0 ch. 13: 3.0				ch. 11: 13.5 ch. 12: 8.0 ch. 13: 3.0			
484T	Maximum			13	13			14	14
	Nominal			12	12			13	13
996T	Maximum				13				14
	Nominal				12				13

1.2.3 Maximum 802.11ax RU WLAN Output Power During Conditions with Receiver Active and/or Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

Tones		SISO (ANT1/2) /in dBm				MIMO (ALL) /in dBm			
		2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz	2.4GHz	5GHz/20MHz	5GHz/40MHz	5GHz/80MHz
26T	Maximum	13	10	9	9	14	10	9	9
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	12	9	8	8	13	9	8	8
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
52T	Maximum	13	12	11	10	16	12	11	10
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	12	11	10	9	15	11	10	9
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
106T	Maximum	13	13	12	12	16	14	12	12
		ch 12: 9.0 ch 13: 4.0				ch 12: 9.0 ch 13: 4.0			
	Nominal	12	12	11	11	15	13	11	11
		ch 12: 8.0 ch 13: 3.0				ch 12: 8.0 ch 13: 3.0			
242T	Maximum	13	13	13	13	16	14	14	14
		ch. 12: 9.0 ch. 13: 4.0				ch. 11: 14.5 ch. 12: 9.0 ch. 13: 4.0			
	Nominal	12	12	12	12	15	13	13	13
		ch. 12: 8.0 ch. 13: 3.0				ch. 11: 13.5 ch. 12: 8.0 ch. 13: 3.0			
484T	Maximum			13	13			14	14
	Nominal			12	12			13	13
996T	Maximum				13				14
	Nominal				12				13

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1.3 IEEE 802.11ax Measured Powers

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

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	13.37	2412	1	52T	37	15.38
			4	13.86				38	15.94
			8	13.30				40	15.01
2437	6	26T	0	13.99	2437	6	52T	37	15.99
			4	13.58				38	15.20
			8	13.09				40	15.40
2462	11	26T	0	13.70	2462	11	52T	37	15.16
			4	13.62				38	15.33
			8	13.52				40	15.71
Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)					
2412	1	106T	53	17.93	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
			54	17.95					
2437	6	106T	53	17.29	2412	1	242T	61	15.65
			54	17.07					
2462	11	106T	53	17.65	2437	6	242T	61	17.57
			54	17.33					

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Table 2
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	13.77	2412	1	52T	37	15.24
			4	13.76				38	15.99
			8	13.42				40	15.59
2437	6	26T	0	13.79	2437	6	52T	37	15.99
			4	13.54				38	15.11
			8	13.49				40	15.47
2462	11	26T	0	13.04	2462	11	52T	37	15.35
			4	13.31				38	15.72
			8	13.67				40	15.01
Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)					
2412	1	106T	53	17.54	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
			54	17.48					
2437	6	106T	53	17.52	2412	1	242T	61	15.81
			54	17.75	2437	6	242T	61	17.38
2462	11	106T	53	17.15	2462	11	242T	61	13.93
			54	17.54					

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

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	4	8						37	39	40
	1	5180	36	26T	9.62	9.95	9.86		1	5180	36	52T	11.63	11.83	11.82
		5200	40	26T	9.66	9.98	9.86		5200	40	52T	11.80	11.92	11.80	
		5240	48	26T	9.77	9.08	9.92		5240	48	52T	11.78	11.12	11.94	
	2A	5260	52	26T	9.46	9.85	9.57		5260	52	52T	11.75	11.94	11.76	
		5280	56	26T	9.60	9.95	9.70		5280	56	52T	11.74	11.96	11.84	
		5320	64	26T	9.73	9.99	9.78		5320	64	52T	11.88	11.99	11.87	
	2C	5500	100	26T	9.90	9.30	9.99		5500	100	52T	11.84	11.99	11.86	
		5600	120	26T	9.09	9.37	9.10		5600	120	52T	11.10	11.20	11.99	
		5720	144	26T	9.62	9.81	9.50		5720	144	52T	11.60	11.70	11.55	
	3	5745	149	26T	9.97	9.20	9.76		5745	149	52T	11.99	11.99	11.79	
		5785	157	26T	9.66	9.14	9.68		5785	157	52T	11.70	11.96	11.73	
		5825	165	26T	9.24	9.64	9.21		5825	165	52T	11.29	11.56	11.31	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	N/A						61	N/A	N/A
	1	5180	36	106T	14.73	14.80			1	5180	36	242T	16.48		
		5200	40	106T	14.70	14.82			5200	40	242T	16.48			
		5240	48	106T	14.82	14.91			5240	48	242T	16.46			
	2A	5260	52	106T	14.63	14.62			5260	52	242T	16.37			
		5280	56	106T	14.66	14.68			5280	56	242T	16.40			
		5320	64	106T	14.70	14.74			5320	64	242T	16.62			
	2C	5500	100	106T	14.70	14.79			5500	100	242T	16.30			
		5600	120	106T	14.90	14.82			5600	120	242T	16.47			
		5720	144	106T	14.41	14.34			5720	144	242T	16.99			
	3	5745	149	106T	14.94	14.82			5745	149	242T	16.66			
		5785	157	106T	14.70	14.66			5785	157	242T	16.48			
		5825	165	106T	14.26	14.27			5825	165	242T	16.32			

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	8.06	8.23	8.17		1	5190	38	52T	10.23	10.32	10.33
		5230	46	26T	8.11	8.26	8.32		5230	46	52T	10.32	10.34	10.49	
	2A	5270	54	26T	8.98	8.96	8.96		5270	54	52T	10.26	10.06	10.34	
		5310	62	26T	8.99	8.13	8.99		5310	62	52T	10.35	10.16	10.26	
		5510	102	26T	8.34	8.47	8.53		5510	102	52T	10.51	10.39	10.73	
	2C	5590	118	26T	8.42	8.38	8.34		5590	118	52T	10.61	10.36	10.58	
		5710	142	26T	8.20	8.03	8.95		5710	142	52T	10.36	10.09	10.18	
		5755	151	26T	8.42	8.43	8.32		5755	151	52T	10.79	10.34	10.60	
	3	5795	159	26T	8.71	8.21	8.54		3	5795	159	52T	10.99	10.15	10.93

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	N/A
	1	5190	38	106T	11.52	11.34	11.56		1	5190	38	242T	14.64	14.65	
		5230	46	106T	11.65	11.36	11.65		5230	46	242T	14.73	14.63		
	2A	5270	54	106T	11.39	11.98	11.45		5270	54	242T	14.54	14.53		
		5310	62	106T	11.44	11.99	11.41		5310	62	242T	14.62	14.57		
		5510	102	106T	11.49	11.23	11.71		5510	102	242T	14.43	14.56		
	2C	5590	118	106T	11.61	11.25	11.58		5590	118	242T	14.49	14.58		
		5710	142	106T	11.36	11.74	11.25		5710	142	242T	14.18	14.12		
		5755	151	106T	11.86	11.26	11.81		5755	151	242T	14.65	14.65		
	3	5795	159	106T	11.27	11.90	11.21		3	5795	159	242T	14.24	14.18	

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40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
1		5190	38	484T	15.42		
		5230	46	484T	15.57		
2A		5270	54	484T	15.30		
		5310	62	484T	14.68		
2C		5510	102	484T	15.58		
		5590	118	484T	15.49		
		5710	142	484T	15.17		
3		5755	151	484T	15.48		
		5795	159	484T	15.14		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
	1	5210	42	26T	8.19	8.94	8.42	1	5210	42	52T	9.36	9.86	9.50	
2A	5290	58	26T	8.98	8.83	8.12	2A	5290	58	52T	9.21	9.73	9.36		
2C	5530	106	26T	8.48	8.21	8.52	2C	5530	106	52T	9.59	9.96	9.78		
	5610	122	26T	8.55	8.13	8.36		5610	122	52T	9.61	9.91	9.41		
	5690	138	26T	8.45	8.94	8.96		5690	138	52T	9.53	9.65	9.96		
3	5775	155	26T	8.43	8.99	8.09	3	5775	155	52T	9.67	9.89	9.34		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	56	60						61	62	64
	1	5210	42	106T	11.53	11.82	11.61	1	5210	42	242T	15.37	15.49	15.33	
2A	5290	58	106T	11.37	11.71	11.46	2A	5290	58	242T	15.18	15.24	15.21		
2C	5530	106	106T	11.57	11.83	11.59	2C	5530	106	242T	15.08	15.11	15.08		
	5610	122	106T	11.57	11.79	11.61		5610	122	242T	14.70	14.86	14.71		
	5690	138	106T	11.49	11.54	11.07		5690	138	242T	14.69	14.84	15.39		
3	5775	155	106T	11.78	11.83	11.38	3	5775	155	242T	14.71	14.88	15.29		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					65	66	N/A						67	N/A	N/A
	1	5210	42	484T	14.50	14.63		1	5210	42	996T	14.51			
2A	5290	58	484T	14.32	14.38		2A	5290	58	996T	14.63				
2C	5530	106	484T	14.53	14.81		2C	5530	106	996T	14.60				
	5610	122	484T	14.60	14.62			5610	122	996T	14.47				
	5690	138	484T	14.40	14.32			5690	138	996T	14.27				
3	5775	155	484T	14.60	14.64		3	5775	155	996T	14.36				

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Table 4
Maximum 5 GHz 802.11ax RU Output Power – Ant 2

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	4	8						37	39	40
	1	5180	36	26T	9.82	9.23	9.21	11.92	11.25	11.20					
	5200	40	26T	9.80	9.13	9.11	11.84	11.16	11.13						
	5240	48	26T	9.72	9.11	9.99	11.81	11.13	11.05						
2A	5260	52	26T	9.70	9.03	9.99	11.73	11.17	11.18						
	5280	56	26T	9.74	9.02	9.01	11.77	11.25	11.16						
	5320	64	26T	9.75	9.03	9.98	11.82	11.18	11.99						
2C	5500	100	26T	9.94	9.18	9.04	11.91	11.35	11.98						
	5600	120	26T	9.97	9.13	9.99	11.97	11.44	11.96						
	5720	144	26T	9.96	9.21	9.01	11.95	11.29	11.99						
3	5745	149	26T	9.89	9.34	9.94	11.99	11.15	11.98						
	5785	157	26T	9.98	9.48	9.23	11.99	11.37	11.12						
	5825	165	26T	9.80	9.44	9.12	11.97	11.26	11.01						

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	N/A						61	N/A	N/A
	1	5180	36	106T	14.88	14.18		16.74							
	5200	40	106T	14.79	14.97		16.76								
	5240	48	106T	14.71	14.98		16.99								
2A	5260	52	106T	14.67	14.97		16.67								
	5280	56	106T	14.77	14.97		16.64								
	5320	64	106T	14.75	14.88		16.98								
2C	5500	100	106T	14.99	14.97		16.75								
	5600	120	106T	14.99	14.98		16.72								
	5720	144	106T	14.95	14.94		16.76								
3	5745	149	106T	14.70	14.65		16.44								
	5785	157	106T	14.78	14.88		16.59								
	5825	165	106T	14.67	14.79		16.49								

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	8.28	8.67	8.39	10.47	10.63	10.54					
	5230	46	26T	8.18	8.53	8.35	10.45	10.52	10.59						
2A	5270	54	26T	8.12	8.30	8.31	10.38	10.54	10.54						
	5310	62	26T	8.07	8.19	8.12	10.30	10.46	10.34						
2C	5510	102	26T	8.32	8.26	8.56	10.52	10.57	10.63						
	5590	118	26T	8.23	8.21	8.32	10.29	10.38	10.43						
	5710	142	26T	8.34	8.45	8.52	10.51	10.58	10.64						
3	5755	151	26T	8.35	8.58	8.64	10.54	10.50	10.82						
	5795	159	26T	8.94	8.78	8.22	10.18	10.61	10.41						

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	N/A
	1	5190	38	106T	11.65	11.58	11.64	14.98	14.87						
	5230	46	106T	11.53	11.50	11.65	14.88	14.79							
2A	5270	54	106T	11.48	11.45	11.50	14.74	14.76							
	5310	62	106T	11.44	11.34	11.43	14.72	14.62							
2C	5510	102	106T	11.70	11.30	11.89	14.63	14.70							
	5590	118	106T	11.64	11.13	11.58	14.46	14.56							
	5710	142	106T	11.67	11.27	11.77	14.57	14.65							
3	5755	151	106T	11.49	11.35	11.67	14.57	14.76							
	5795	159	106T	11.27	11.40	11.50	14.56	14.70							

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40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
	1	5190	38	484T	15.56		
		5230	46	484T	15.70		
	2A	5270	54	484T	15.60		
		5310	62	484T	14.67		
	2C	5510	102	484T	15.77		
		5590	118	484T	15.79		
		5710	142	484T	15.91		
	3	5755	151	484T	15.78		
		5795	159	484T	15.75		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
	1	5210	42	26T	8.22	8.99	8.33		1	5210	42	52T	9.46	9.99	9.52
	2A	5290	58	26T	8.02	8.66	8.03		2A	5290	58	52T	9.21	9.76	9.28
2C	5530	106	26T	8.26	8.82	8.21	2C	5530	106	52T	9.50	9.80	9.42		
	5610	122	26T	8.18	8.65	8.10		5610	122	52T	9.31	9.56	9.24		
	5690	138	26T	8.28	8.86	8.23		5690	138	52T	9.39	9.65	9.32		
3	5775	155	26T	8.26	8.17	8.47	3	5775	155	52T	9.37	9.87	9.63		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	56	60						61	62	64
	1	5210	42	106T	11.53	11.93	11.52		1	5210	42	242T	14.87	15.49	14.69
	2A	5290	58	106T	11.30	11.72	11.30		2A	5290	58	242T	14.62	14.93	15.38
	2C	5530	106	106T	11.55	11.77	11.52		2C	5530	106	242T	14.93	15.49	14.92
		5610	122	106T	11.40	11.70	11.38			5610	122	242T	15.43	15.25	15.49
		5690	138	106T	11.49	11.61	11.44			5690	138	242T	15.49	15.49	15.47
	3	5775	155	106T	11.23	11.50	11.45		3	5775	155	242T	15.38	15.48	15.49

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					65	66	N/A						67	N/A	N/A
	1	5210	42	484T	14.66	14.62			1	5210	42	996T	14.71		
	2A	5290	58	484T	14.41	14.47			2A	5290	58	996T	14.69		
	2C	5530	106	484T	14.68	14.75			2C	5530	106	996T	14.31		
5610		122	484T	14.54	14.70			5610		122	996T	14.13			
5690		138	484T	14.58	14.83			5690		138	996T	14.99			
	3	5775	155	484T	14.40	14.64			3	5775	155	996T	14.95		

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