

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	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10
52T	Maximum	15	13	12	11	15	13	12	11
	Nominal	14	12	11	10	14	12	11	10
106T	Maximum	16	15	13	12	16	15	13	12
	Nominal	15	14	12	11	15	14	12	11
242T	Maximum	17	16	14	13	17	16	14	13
	Nominal	16	15	13	12	16	15	13	12
484T	Maximum			14	13			14	13
	Nominal			13	12			13	12
996T	Maximum				13				13
	Nominal				12				12

1.2.2 Reduced 802.11ax RU WLAN Output Power (Table 1)

The below table is applicable in the following conditions:

- RCV active
- Simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Simultaneous conditions with 5G NR and 2.4 GHz WLAN and/or 5 GHz WLAN
- RCV active during simultaneous conditions with 5G NR

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	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10
52T	Maximum	15	13	12	11	15	13	12	11
	Nominal	14	12	11	10	14	12	11	10
106T	Maximum	16	14	13	12	16	15	13	12
	Nominal	15	13	12	11	15	14	12	11
242T	Maximum	17	14	14	13	17	16	14	13
	Nominal	16	13	13	12	16	15	13	12
484T	Maximum			14	13			14	13
	Nominal			13	12			13	12
996T	Maximum				13				13
	Nominal				12				12

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 1 of 10

1.2.3 Reduced 802.11ax RU WLAN Output Power (Table 2)

The below table is applicable in the following conditions:

- RCV active during simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- RCV active during simultaneous conditions with 5G NR and 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	14	11	11	11	14	11	11	11
	Nominal	13	10	10	10	13	10	10	10
52T	Maximum	14	13	12	11	15	13	12	11
	Nominal	13	12	11	10	14	12	11	10
106T	Maximum	14	14	13	12	16	15	13	12
	Nominal	13	13	12	11	15	14	12	11
242T	Maximum	14	14	14	13	17	16	14	13
	Nominal	13	13	13	12	16	15	13	12
484T	Maximum			14	13			14	13
	Nominal			13	12			13	12
996T	Maximum				13				13
	Nominal				12				12

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset	APPENDIX H: Page 2 of 10

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)
2412	1	26T	0	13.11
			4	13.37
			8	13.90
2437	6	26T	0	13.83
			4	13.18
			8	13.88
2462	11	26T	0	13.33
			4	13.33
			8	13.74

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	52T	37	14.54
			38	14.01
			40	14.42
2437	6	52T	37	14.82
			38	14.41
			40	14.24
2462	11	52T	37	14.52
			38	14.55
			40	14.31

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.97
			54	15.16
2437	6	106T	53	15.46
			54	15.60
2462	11	106T	53	15.11
			54	15.29

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	242T	61	16.90
2437	6	242T	61	16.40
2462	11	242T	61	16.43

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 3 of 10

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

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	13.24
			4	13.71
			8	13.94
2437	6	26T	0	13.20
			4	13.77
			8	13.04
2462	11	26T	0	13.06
			4	13.86
			8	13.85

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	52T	37	14.92
			38	14.36
			40	14.01
2437	6	52T	37	14.99
			38	14.46
			40	14.48
2462	11	52T	37	14.76
			38	14.32
			40	14.17

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	15.22
			54	15.30
2437	6	106T	53	15.17
			54	15.98
2462	11	106T	53	15.97
			54	15.53

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	242T	61	16.99
2437	6	242T	61	16.99
2462	11	242T	61	16.26

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 4 of 10

Table 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	10.65	10.07	10.01
		5200	40	26T	10.76	10.11	10.94
		5240	48	26T	10.70	10.30	10.09
2A		5260	52	26T	10.79	10.06	10.96
		5280	56	26T	10.84	10.22	10.99
		5320	64	26T	10.99	10.17	10.08
2C		5500	100	26T	10.89	10.31	10.09
		5600	120	26T	10.43	10.73	10.53
		5720	144	26T	10.96	10.18	10.92
3		5745	149	26T	10.03	10.32	10.99
		5785	157	26T	10.93	10.45	10.99
		5825	165	26T	10.96	10.26	10.04

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
1		5180	36	52T	12.74	12.15	12.03
		5200	40	52T	12.77	12.18	12.99
		5240	48	52T	12.86	12.23	12.23
2A		5260	52	52T	12.86	12.21	12.13
		5280	56	52T	12.86	12.28	12.30
		5320	64	52T	12.23	12.34	12.31
2C		5500	100	52T	12.83	12.29	12.16
		5600	120	52T	12.33	12.56	12.40
		5720	144	52T	12.96	12.05	12.89
3		5745	149	52T	12.16	12.18	12.13
		5785	157	52T	12.98	12.40	12.16
		5825	165	52T	12.92	12.26	12.98

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	N/A
1		5180	36	106T	14.90	14.15	
		5200	40	106T	14.76	14.99	
		5240	48	106T	14.96	14.20	
2A		5260	52	106T	14.74	14.92	
		5280	56	106T	14.92	14.20	
		5320	64	106T	14.99	14.99	
2C		5500	100	106T	14.78	14.99	
		5600	120	106T	14.44	14.36	
		5720	144	106T	14.79	14.75	
3		5745	149	106T	14.15	14.10	
		5785	157	106T	14.14	14.21	
		5825	165	106T	14.98	14.08	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	N/A	N/A
1		5180	36	242T	15.99		
		5200	40	242T	15.99		
		5240	48	242T	15.07		
2A		5260	52	242T	15.90		
		5280	56	242T	15.99		
		5320	64	242T	15.01		
2C		5500	100	242T	15.65		
		5600	120	242T	15.40		
		5720	144	242T	15.56		
3		5745	149	242T	15.99		
		5785	157	242T	15.99		
		5825	165	242T	15.90		

FCC ID: A3LSMN981W	 PCTEST Proud to be part of  hewlett-packard	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 5 of 10

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	8	17
1		5190	38	26T	10.15	10.50	10.36
		5230	46	26T	10.25	10.64	10.53
2A		5270	54	26T	10.35	10.42	10.54
		5310	62	26T	10.39	10.57	10.48
2C		5510	102	26T	10.42	10.72	10.78
		5590	118	26T	10.25	10.26	10.24
		5710	142	26T	10.48	10.42	10.54
		5755	151	26T	10.65	10.71	10.81
3		5795	159	26T	10.12	10.67	10.16

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	40	44
1		5190	38	52T	11.52	11.56	11.64
		5230	46	52T	11.57	11.66	11.79
2A		5270	54	52T	11.67	11.45	11.84
		5310	62	52T	11.67	11.58	11.76
2C		5510	102	52T	11.70	11.74	11.96
		5590	118	52T	11.45	11.28	11.35
		5710	142	52T	11.64	11.50	11.69
		5755	151	52T	11.98	11.69	11.93
3		5795	159	52T	11.46	11.72	11.52

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	56
1		5190	38	106T	12.78	12.59	12.97
		5230	46	106T	12.80	12.55	12.93
2A		5270	54	106T	12.80	12.52	12.96
		5310	62	106T	12.97	12.64	12.91
2C		5510	102	106T	12.96	12.60	12.26
		5590	118	106T	12.55	12.12	12.54
		5710	142	106T	12.79	12.34	12.84
		5755	151	106T	12.22	12.69	12.36
3		5795	159	106T	12.62	12.67	12.76

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	N/A
1		5190	38	242T	13.15	13.03	
		5230	46	242T	13.21	13.14	
2A		5270	54	242T	13.14	13.31	
		5310	62	242T	13.37	13.18	
2C		5510	102	242T	13.18	13.38	
		5590	118	242T	13.64	13.84	
		5710	142	242T	13.90	13.97	
		5755	151	242T	13.30	13.38	
3		5795	159	242T	13.08	13.15	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
1		5190	38	484T	13.66		
		5230	46	484T	13.92		
2A		5270	54	484T	13.95		
		5310	62	484T	13.84		
2C		5510	102	484T	13.45		
		5590	118	484T	13.46		
		5710	142	484T	13.66		
		5755	151	484T	13.01		
3		5795	159	484T	13.89		

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 6 of 10

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	18	36
1	2A	5210	42	26T	10.21	10.87	10.50
		5290	58	26T	10.80	10.51	10.90
2C		5530	106	26T	10.44	10.93	10.30
		5610	122	26T	10.24	10.72	10.30
		5690	138	26T	10.40	10.94	10.36
3		5775	155	26T	10.54	10.39	10.58

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	44	52
1	2A	5210	42	52T	10.44	10.94	10.59
		5290	58	52T	10.98	10.48	10.09
2C		5530	106	52T	10.55	10.85	10.43
		5610	122	52T	10.44	10.77	10.40
		5690	138	52T	10.60	10.88	10.52
3		5775	155	52T	10.72	10.25	10.75

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
1	2A	5210	42	106T	11.40	11.90	11.72
		5290	58	106T	11.26	11.70	11.26
2C		5530	106	106T	11.60	11.95	11.64
		5610	122	106T	11.52	11.78	11.50
		5690	138	106T	11.65	11.94	11.67
3		5775	155	106T	11.94	11.27	11.98

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	64
1	2A	5210	42	242T	12.79	12.99	12.98
		5290	58	242T	12.41	12.63	12.44
2C		5530	106	242T	12.83	12.96	12.90
		5610	122	242T	12.64	12.86	12.74
		5690	138	242T	12.74	12.98	12.79
3		5775	155	242T	12.24	12.41	12.23

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	66	N/A
1	2A	5210	42	484T	12.59	12.78	
		5290	58	484T	12.24	12.30	
2C		5530	106	484T	12.58	12.75	
		5610	122	484T	12.44	12.67	
		5690	138	484T	12.62	12.79	
3		5775	155	484T	12.89	12.06	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	N/A	N/A
1	2A	5210	42	996T	12.64		
		5290	58	996T	12.37		
2C		5530	106	996T	12.61		
		5610	122	996T	12.54		
		5690	138	996T	12.68		
3		5775	155	996T	12.94		

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Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 7 of 10

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

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	4	8
1		5180	36	26T	10.34	10.61	10.37
		5200	40	26T	10.32	10.58	10.40
		5240	48	26T	10.37	10.68	10.43
2A		5260	52	26T	10.36	10.65	10.36
		5280	56	26T	10.37	10.62	10.42
		5320	64	26T	10.36	10.65	10.44
2C		5500	100	26T	10.75	10.91	10.50
		5600	120	26T	10.95	10.99	10.71
		5720	144	26T	10.12	10.17	10.84
3		5745	149	26T	10.65	10.75	10.41
		5785	157	26T	10.74	10.93	10.55
		5825	165	26T	10.59	10.96	10.57

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	39	40
1		5180	36	52T	12.36	12.60	12.50
		5200	40	52T	12.50	12.70	12.56
		5240	48	52T	12.57	12.76	12.58
2A		5260	52	52T	12.45	12.60	12.44
		5280	56	52T	12.54	12.63	12.54
		5320	64	52T	12.52	12.64	12.48
2C		5500	100	52T	12.84	12.86	12.70
		5600	120	52T	12.99	12.99	12.87
		5720	144	52T	12.09	12.16	12.99
3		5745	149	52T	12.45	12.50	12.27
		5785	157	52T	12.52	12.71	12.44
		5825	165	52T	12.36	12.61	12.30

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	N/A
1		5180	36	106T	14.33	14.39	
		5200	40	106T	14.37	14.47	
		5240	48	106T	14.47	14.49	
2A		5260	52	106T	14.25	14.28	
		5280	56	106T	14.33	14.38	
		5320	64	106T	14.41	14.34	
2C		5500	100	106T	14.70	14.65	
		5600	120	106T	14.84	14.73	
		5720	144	106T	14.99	14.84	
3		5745	149	106T	14.30	14.16	
		5785	157	106T	14.38	14.37	
		5825	165	106T	14.23	14.18	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	N/A	N/A
1		5180	36	242T	15.37		
		5200	40	242T	15.40		
		5240	48	242T	15.51		
2A		5260	52	242T	15.25		
		5280	56	242T	15.34		
		5320	64	242T	15.39		
2C		5500	100	242T	15.45		
		5600	120	242T	15.61		
		5720	144	242T	15.76		
3		5745	149	242T	15.96		
		5785	157	242T	15.99		
		5825	165	242T	15.90		

FCC ID: A3LSMN981W	 PCTEST Proud to be part of  himax	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 8 of 10

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	8	17
1		5190	38	26T	10.61	10.74	10.61
		5230	46	26T	10.70	10.80	10.70
2A		5270	54	26T	10.57	10.52	10.59
		5310	62	26T	10.66	10.68	10.50
2C		5510	102	26T	10.20	10.90	10.20
		5590	118	26T	10.20	10.98	10.02
		5710	142	26T	10.53	10.27	10.42
3		5755	151	26T	10.11	10.14	10.21
		5795	159	26T	10.60	10.24	10.70

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	40	44
1		5190	38	52T	11.87	11.76	11.84
		5230	46	52T	11.95	11.84	11.96
2A		5270	54	52T	11.97	11.65	11.89
		5310	62	52T	11.94	11.73	11.94
2C		5510	102	52T	11.43	11.99	11.42
		5590	118	52T	11.30	11.99	11.28
		5710	142	52T	11.65	11.31	11.61
3		5755	151	52T	11.23	11.93	11.24
		5795	159	52T	11.53	11.78	11.58

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	54	56
1		5190	38	106T	12.11	12.64	12.09
		5230	46	106T	12.19	12.87	12.27
2A		5270	54	106T	12.17	12.68	12.98
		5310	62	106T	12.31	12.74	12.98
2C		5510	102	106T	12.66	12.99	12.71
		5590	118	106T	12.65	12.01	12.65
		5710	142	106T	12.99	12.20	12.93
3		5755	151	106T	12.44	12.87	12.40
		5795	159	106T	12.68	12.57	12.73

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	N/A
1		5190	38	242T	13.42	13.41	
		5230	46	242T	13.45	13.41	
2A		5270	54	242T	13.28	13.30	
		5310	62	242T	13.32	13.21	
2C		5510	102	242T	13.77	13.97	
		5590	118	242T	13.78	13.81	
		5710	142	242T	13.97	13.27	
3		5755	151	242T	13.40	13.49	
		5795	159	242T	13.96	13.21	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
1		5190	38	484T	13.24		
		5230	46	484T	13.34		
2A		5270	54	484T	13.23		
		5310	62	484T	13.21		
2C		5510	102	484T	13.77		
		5590	118	484T	13.65		
		5710	142	484T	13.95		
3		5755	151	484T	13.31		
		5795	159	484T	13.86		

FCC ID: A3LSMN981W	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset			APPENDIX H: Page 9 of 10

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					0	18	36
1	2A	5210	42	26T	10.41	10.24	10.57
		5290	58	26T	10.34	10.99	10.35
2C	2C	5530	106	26T	10.22	10.67	10.99
		5610	122	26T	10.14	10.60	10.98
		5690	138	26T	10.48	10.85	10.31
3	3	5775	155	26T	10.80	10.54	10.84

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					37	44	52
1	2A	5210	42	52T	10.68	10.99	10.73
		5290	58	52T	10.47	10.97	10.49
2C	2C	5530	106	52T	10.40	10.55	10.16
		5610	122	52T	10.40	10.50	10.22
		5690	138	52T	10.67	10.66	10.44
3	3	5775	155	52T	10.95	10.38	10.98

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
1	2A	5210	42	106T	11.91	11.21	11.99
		5290	58	106T	11.71	11.07	11.84
2C	2C	5530	106	106T	11.44	11.60	11.33
		5610	122	106T	11.45	11.66	11.40
		5690	138	106T	11.64	11.70	11.51
3	3	5775	155	106T	11.98	11.30	11.19

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	64
1	2A	5210	42	242T	12.12	12.25	12.18
		5290	58	242T	12.97	12.24	12.90
2C	2C	5530	106	242T	12.75	12.78	12.83
		5610	122	242T	12.79	12.77	12.86
		5690	138	242T	12.93	12.88	12.99
3	3	5775	155	242T	12.21	12.39	12.43

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	66	N/A
1	2A	5210	42	484T	12.90	12.99	
		5290	58	484T	12.99	12.13	
2C	2C	5530	106	484T	12.44	12.61	
		5610	122	484T	12.44	12.58	
		5690	138	484T	12.65	12.79	
3	3	5775	155	484T	12.99	12.29	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					67	N/A	N/A
1	2A	5210	42	996T	12.74		
		5290	58	996T	12.68		
2C	2C	5530	106	996T	12.04		
		5610	122	996T	12.01		
		5690	138	996T	12.22		
3	3	5775	155	996T	12.58		

FCC ID: A3LSMN981W	 PCTEST Proud to be part of  eSolutions	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 06/03/20 - 07/13/20	DUT Type: Portable Handset		APPENDIX H: Page 10 of 10