

Appendix A. Test Data

Duty cycle							
Mode	Frequency (MHz)	Single RU	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ax HE20	5180	26	20.000	20.000	100.000	0.000	0.010
802.11ax HE20	5180	52	20.000	20.000	100.000	0.000	0.010
802.11ax HE20	5180	106	20.000	20.000	100.000	0.000	0.010

RF power setting in Test SW									
Mode	CH	Frequency (MHz)	Single RU	Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Test SW Version
802.11ax HE20	36	5180	26 0	3.5	3.5	-	-	-	QRCT
	48	5240	26 8	4	4	-	-	-	
	52	5260	26 0	4	4	-	-	-	
	64	5320	26 8	2.5	2.5	-	-	-	
	100	5500	26 0	0.5	0.5	-	-	-	
	140	5700	26 8	0.5	0.5	-	-	-	
	149	5745	26 0	3.5	3.5	-	-	-	
	165	5825	26 8	3.5	3.5	-	-	-	
	36	5180	52 37	6	6	-	-	-	QRCT
	48	5240	52 40	6.5	6.5	-	-	-	
	52	5260	52 37	7	7	-	-	-	
	64	5320	52 40	5.5	5.5	-	-	-	
	100	5500	52 37	3	3	-	-	-	
	140	5700	52 40	3	3	-	-	-	
	149	5745	52 37	6.5	6.5	-	-	-	
	165	5825	52 40	6.5	6.5	-	-	-	
	36	5180	106 53	9	9	-	-	-	QRCT
	48	5240	106 54	9.5	9.5	-	-	-	
	52	5260	106 53	9.5	9.5	-	-	-	
	64	5320	106 54	8.5	8.5	-	-	-	
	100	5500	106 53	6	6	-	-	-	
	140	5700	106 54	6	6	-	-	-	
	149	5745	106 53	9.5	9.5	-	-	-	
	165	5825	106 54	9.5	9.5	-	-	-	

Maximum Conducted Output Power Measurement										
Mode	CH	Frequency (MHz)	Single RU	Average power						Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Ant-4	Total	
				dBm	dBm	dBm	dBm	dBm	dBm	
802.11ax HE20	36	5180	26 0	1.86	2.84	-	-	-	5.39	24.00
	48	5240	26 8	2.89	4.22	-	-	-	6.62	24.00
	52	5260	26 0	3.23	3.73	-	-	-	6.50	24.00
	64	5320	26 8	0.22	2.51	-	-	-	4.52	24.00
	100	5500	26 0	-0.28	-0.23	-	-	-	2.76	24.00
	140	5700	26 8	-1.07	-1.16	-	-	-	1.90	24.00
	149	5745	26 0	2.29	2.95	-	-	-	5.64	30.00
	165	5825	26 8	3.25	3.84	-	-	-	6.57	30.00
	36	5180	52 37	4.21	5.25	-	-	-	7.77	24.00
	48	5240	52 40	5.11	6.51	-	-	-	8.88	24.00
	52	5260	52 37	5.87	6.69	-	-	-	9.31	24.00
	64	5320	52 40	2.96	5.38	-	-	-	7.35	24.00
	100	5500	52 37	1.98	4.04	-	-	-	6.14	24.00
	140	5700	52 40	1.71	2.91	-	-	-	5.36	24.00
	149	5745	52 37	5.06	5.89	-	-	-	8.51	30.00
	165	5825	52 40	5.97	6.77	-	-	-	9.40	30.00
	36	5180	106 53	7.29	8.37	-	-	-	10.87	24.00
	48	5240	106 54	8.44	9.58	-	-	-	12.06	24.00
	52	5260	106 53	8.53	9.27	-	-	-	11.93	24.00
	64	5320	106 54	6.04	8.24	-	-	-	10.29	24.00
	100	5500	106 53	4.61	7.27	-	-	-	9.15	24.00
	140	5700	106 54	4.54	5.79	-	-	-	8.22	24.00
	149	5745	106 53	8.35	8.98	-	-	-	11.69	30.00
	165	5825	106 54	8.99	9.78	-	-	-	12.41	30.00

Note: The conducted power limit is the lesser of 24 dBm or (11 dBm + 10log10(B)), where B is the 26 dB EBW in MHz.

Power Spectral Density Measurement											
Mode	CH	Frequency (MHz)	Single RU	Measurement					Duty Factor	Calculated	Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Ant-4		Total	
				dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11ax HE20	36	5180	26 0	-1.026	-0.154	-	-	-	0.000	2.442	11.000
	48	5240	26 8	-0.108	1.038	-	-	-	0.000	3.513	11.000
	52	5260	26 0	0.322	0.740	-	-	-	0.000	3.546	11.000
	64	5320	26 8	-2.759	-0.397	-	-	-	0.000	1.591	11.000
	100	5500	26 0	-2.907	-2.886	-	-	-	0.000	0.114	11.000
802.11ax HE20	140	5700	26 8	-4.141	-4.493	-	-	-	0.000	-1.303	11.000
	36	5180	52 37	-1.195	-0.365	-	-	-	0.000	2.250	11.000
	48	5240	52 40	-0.337	0.875	-	-	-	0.000	3.321	11.000
	52	5260	52 37	0.258	0.826	-	-	-	0.000	3.562	11.000
	64	5320	52 40	-2.745	-0.279	-	-	-	0.000	1.671	11.000
802.11ax HE20	100	5500	52 37	-3.811	-1.391	-	-	-	0.000	0.576	11.000
	140	5700	52 40	-4.025	-2.790	-	-	-	0.000	-0.353	11.000
	36	5180	106 53	-1.112	-0.080	-	-	-	0.000	2.445	11.000
	48	5240	106 54	-0.124	1.039	-	-	-	0.000	3.507	11.000
	52	5260	106 53	0.245	0.713	-	-	-	0.000	3.496	11.000
802.11ax HE20	64	5320	106 54	-2.665	-0.372	-	-	-	0.000	1.641	11.000
	100	5500	106 53	-3.901	-1.227	-	-	-	0.000	0.649	11.000
	140	5700	106 54	-4.300	-2.804	-	-	-	0.000	-0.478	11.000

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Band III _ Power Spectral Density Measurement																
Mode	CH	Frequency (MHz)	Single RU	Measurement										Calculated	Limit	PASS/FAIL
				Ant-0		Ant-1		Ant-2		Ant-3		Ant-4		Total		
				dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/100 kHz	dBm/500 kHz	dBm/500 kHz	dBm/500 kHz	
802.11ax HE20	149	5745	26 0	-10.170	-3.180	-9.837	-2.847	-	-	-	-	-	-	0.000	30.00	PASS
	165	5825	26 8	-9.714	-2.724	-9.138	-2.148	-	-	-	-	-	-	0.584	30.00	PASS
	149	5745	52 37	-10.247	-3.257	-9.590	-2.600	-	-	-	-	-	-	0.094	30.00	PASS
	165	5825	52 40	-9.872	-2.882	-8.936	-1.946	-	-	-	-	-	-	0.621	30.00	PASS
	149	5745	106 53	-10.033	-3.043	-9.307	-2.317	-	-	-	-	-	-	0.345	30.00	PASS
	165	5825	106 54	-9.730	-2.740	-9.014	-2.024	-	-	-	-	-	-	0.643	30.00	PASS

Note: Power Density (dBm/500kHz) = Measured result (dBm /100 kHz) + duty factor(dB) + Conversion ratio (dB) .
Conversion ratio = 10*Log(500 k/100 k)