

Appendix A. Test Data

Duty cycle						
Band	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	5260	2.057	2.102	97.859	0.094	0.486
802.11ac VHT20	5260	5.010	5.040	99.405	0.026	0.010
802.11ac VHT40	5270	2.426	2.478	97.902	0.092	0.412
802.11ac VHT80	5290	1.155	1.195	96.653	0.148	0.866

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11a	52	5260	10.5	10.5	10.5	10.5	QSPR 5.0-00188
	56	5280	10.5	10.5	10.5	10.5	
	60	5300	10.5	10.5	10.5	10.5	
	64	5320	11	11	11	11	
	100	5500	10.5	10.5	10.5	10.5	
	112	5560	10	10	10	10	
	116	5580	10	10	10	10	
	132	5660	10	10	10	10	
	140	5700	10	10	10	10	
802.11n HT20	52	5260	15.5	15.5	15.5	15.5	QSPR 5.0-00188
	56	5280	16	16	16	16	
	60	5300	16	16	16	16	
	64	5320	16	16	16	16	
	100	5500	16.5	16.5	16.5	16.5	
	112	5560	16	16	16	16	
	116	5580	16	16	16	16	
	132	5660	16	16	16	16	
	140	5700	16	16	16	16	
802.11n HT40	54	5270	17.5	17.5	17.5	17.5	QSPR 5.0-00188
	62	5310	14.5	14.5	14.5	14.5	
	102	5510	15.5	15.5	15.5	15.5	
	110	5550	17.5	17.5	17.5	17.5	
	134	5670	17	17	17	17	
Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11ac VHT20	52	5260	15.5	15.5	15.5	15.5	QSPR 5.0-00188
	56	5280	16	16	16	16	
	60	5300	16	16	16	16	
	64	5320	16	16	16	16	
	100	5500	16.5	16.5	16.5	16.5	
	112	5560	16	16	16	16	
	116	5580	16	16	16	16	
	132	5660	16	16	16	16	
	140	5700	16	16	16	16	
802.11ac VHT40	54	5270	17.5	17.5	17.5	17.5	QSPR 5.0-00188
	62	5310	14.5	14.5	14.5	14.5	
	102	5510	15.5	15.5	15.5	15.5	
	110	5550	17.5	17.5	17.5	17.5	
	134	5670	17	17	17	17	
802.11ac VHT80	58	5290	11.5	11.5	11.5	11.5	QSPR 5.0-00188
	106	5530	11	11	11	11	

Maximum Conducted Output Power Measurement									
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	dBm
802.11a	6M	52	5260	11.67	11.33	11.21	11.30	17.40	23.90
		56	5280	11.50	11.36	11.26	11.12	17.33	23.90
		60	5300	11.45	11.30	11.24	11.09	17.29	23.90
		64	5320	11.75	11.88	11.91	11.18	17.71	23.90
		100	5500	11.08	10.99	10.78	10.57	16.88	23.93
		112	5560	10.87	10.75	10.72	10.40	16.71	23.93
		116	5580	10.85	10.74	10.68	10.38	16.69	23.93
		132	5660	10.82	10.70	10.67	10.35	16.66	23.93
		140	5700	11.21	10.87	10.83	10.86	16.97	23.93
802.11n HT20	26M	52	5260	16.32	15.88	15.68	15.62	21.90	24.00
		56	5280	16.49	16.43	16.36	16.29	22.41	24.00
		60	5300	16.45	16.35	16.35	16.15	22.35	24.00
		64	5320	16.27	16.52	16.34	15.65	22.23	24.00
		100	5500	16.70	16.56	16.45	16.31	22.53	24.00
		112	5560	16.63	16.55	16.29	15.97	22.39	24.00
		116	5580	16.55	16.47	16.27	15.95	22.34	24.00
		132	5660	16.48	16.45	16.13	15.91	22.27	24.00
		140	5700	16.84	16.48	16.48	16.45	22.59	24.00
802.11n HT40	54M	54	5270	17.92	17.76	17.48	17.32	23.65	24.00
		62	5310	14.68	14.73	14.45	14.13	20.52	24.00
		102	5510	15.45	15.27	15.00	14.91	21.18	24.00
		110	5550	17.67	17.70	17.40	17.11	23.50	24.00
		134	5670	17.45	17.49	17.28	17.12	23.36	24.00
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	dBm
802.11ac VHT20	26M	52	5260	16.46	16.11	15.94	15.91	22.13	24.00
		56	5280	16.78	16.68	16.53	16.40	22.62	24.00
		60	5300	16.75	16.62	16.50	16.36	22.58	24.00
		64	5320	16.47	16.62	16.50	15.79	22.38	24.00
		100	5500	16.82	16.80	16.64	16.45	22.70	24.00
		112	5560	16.77	16.68	16.42	16.22	22.55	24.00
		116	5580	16.71	16.65	16.39	16.20	22.51	24.00
		132	5660	16.68	16.61	16.35	16.17	22.48	24.00
		140	5700	16.98	16.74	16.77	16.71	22.82	24.00
802.11ac VHT40	54M	54	5270	18.20	17.95	17.73	17.51	23.88	24.00
		62	5310	14.81	14.94	14.64	14.28	20.70	24.00
		102	5510	15.66	15.56	15.25	15.14	21.43	24.00
		110	5550	17.79	17.87	17.54	17.32	23.66	24.00
		134	5670	17.71	17.73	17.57	17.26	23.59	24.00
802.11ac VHT80	117.2M	58	5290	12.41	12.41	12.04	11.99	18.24	24.00
		106	5530	11.56	11.60	11.20	11.12	17.40	24.00

Maximum Conducted Output Power Measurement_Transmit power control												
Band	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	E.I.R.P		EIRP Power Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total		Gain	Calculated Results	
				dBm	dBm	dBm	dBm	dBm		dB	dBm	
802.11a	6M	52	5260	5.67	5.33	5.21	5.30	11.40	-	4.61	16.01	24.00
		56	5280	5.50	5.36	5.26	5.12	11.33	-	4.61	15.94	24.00
		60	5300	5.45	5.30	5.24	5.09	11.29	-	4.61	15.90	24.00
		64	5320	5.75	5.88	5.91	5.18	11.71	-	4.61	16.32	24.00
		100	5500	5.08	4.99	4.78	4.57	10.88	-	5.84	16.72	24.00
		112	5560	4.87	4.75	4.72	4.40	10.71	-	5.84	16.55	24.00
		116	5580	4.85	4.74	4.68	4.38	10.69	-	5.84	16.53	24.00
		132	5660	4.82	4.70	4.67	4.35	10.66	-	5.84	16.50	24.00
802.11n HT20	26M	52	5260	10.32	9.88	9.68	9.62	15.90	-	4.61	20.51	24.00
		56	5280	10.49	10.43	10.36	10.29	16.41	-	4.61	21.02	24.00
		60	5300	10.45	10.35	10.35	10.15	16.35	-	4.61	20.96	24.00
		64	5320	10.27	10.52	10.34	9.65	16.23	-	4.61	20.84	24.00
		100	5500	10.70	10.56	10.45	10.31	16.53	-	5.84	22.37	24.00
		112	5560	10.63	10.55	10.29	9.97	16.39	-	5.84	22.23	24.00
		116	5580	10.55	10.47	10.27	9.95	16.34	-	5.84	22.18	24.00
		132	5660	10.48	10.45	10.13	9.91	16.27	-	5.84	22.11	24.00
802.11n HT40	54M	54	5270	11.92	11.76	11.48	11.32	17.65	-	4.61	22.26	24.00
		62	5310	8.68	8.73	8.45	8.13	14.52	-	4.61	19.13	24.00
		102	5510	9.45	9.27	9.00	8.91	15.18	-	5.84	21.02	24.00
		110	5550	11.67	11.70	11.40	11.11	17.50	-	5.84	23.34	24.00
		134	5670	11.45	11.49	11.28	11.12	17.36	-	5.84	23.20	24.00

Band	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	E.I.R.P		EIRP Power Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total		Gain	Calculated Results	
				dBm	dBm	dBm	dBm	dBm		dB	dBm	
802.11ac VHT20	MCS 0	52	5260	10.46	10.11	9.94	9.91	16.13	-	4.61	20.74	24.00
		56	5280	10.78	10.68	10.53	10.40	16.62	-	4.61	21.23	24.00
		60	5300	10.75	10.62	10.50	10.36	16.58	-	4.61	21.19	24.00
		64	5320	10.47	10.62	10.50	9.79	16.38	-	4.61	20.99	24.00
		100	5500	10.82	10.80	10.64	10.45	16.70	-	5.84	22.54	24.00
		112	5560	10.77	10.68	10.42	10.22	16.55	-	5.84	22.39	24.00
		116	5580	10.71	10.65	10.39	10.20	16.51	-	5.84	22.35	24.00
		132	5660	10.68	10.61	10.35	10.17	16.48	-	5.84	22.32	24.00
802.11ac VHT40	MCS 0	54	5270	12.20	11.95	11.73	11.51	17.88	-	4.61	22.49	24.00
		62	5310	8.81	8.94	8.64	8.28	14.70	-	4.61	19.31	24.00
		102	5510	9.66	9.56	9.25	9.14	15.43	-	5.84	21.27	24.00
		110	5550	11.79	11.87	11.54	11.32	17.66	-	5.84	23.50	24.00
		134	5670	11.71	11.73	11.57	11.26	17.59	-	5.84	23.43	24.00
802.11ac VHT80	MCS 0	58	5290	6.41	6.41	6.04	5.99	12.24	-	4.61	16.85	24.00
		106	5530	5.56	5.60	5.20	5.12	11.40	-	5.84	17.24	24.00

26 dB & 99 % RF Bandwidth Measurement

Band	CH	Freq. (MHz)	99 % Bandwidth				26 dB Bandwidth			
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-0	Ant-1	Ant-2	Ant-3
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
802.11a	52	5260	16.557	16.510	16.553	16.489	20.230	19.580	19.730	19.570
	56	5280	16.550	16.520	16.517	16.520	19.850	19.810	19.770	19.520
	64	5320	16.552	16.536	16.538	16.549	19.870	20.240	20.100	19.720
	100	5500	16.555	16.570	16.571	16.528	20.150	20.080	19.730	19.640
	112	5560	16.548	16.555	16.538	16.555	20.260	19.790	19.850	19.640
	140	5700	16.563	16.542	16.538	16.573	20.300	19.690	19.940	20.120
802.11ac VHT20	52	5260	17.701	17.699	17.689	17.639	21.170	20.750	20.630	20.440
	56	5280	17.737	17.713	17.691	17.696	21.340	20.580	20.720	20.580
	64	5320	17.738	17.703	17.721	17.698	20.860	20.480	20.670	20.700
	100	5500	17.710	17.727	17.707	17.693	21.320	20.710	20.660	20.630
	112	5560	17.721	17.713	17.721	17.743	20.690	20.780	20.650	20.590
	140	5700	17.704	17.695	17.697	17.722	21.200	20.540	20.860	20.650
802.11ac VHT40	54	5270	36.068	36.077	36.034	36.053	40.130	40.190	39.940	39.740
	62	5310	36.063	36.027	36.016	36.003	40.430	40.070	40.000	39.690
	102	5510	36.099	36.035	35.973	36.028	40.090	39.980	40.010	39.800
	110	5550	36.094	36.061	36.025	36.020	40.160	40.370	39.850	39.780
	134	5670	36.106	36.094	36.035	35.971	40.390	40.030	40.140	39.760
802.11ac VHT80	58	5290	75.973	76.026	75.859	75.812	84.110	83.930	84.070	84.010
	106	5530	76.009	75.971	75.926	75.810	83.940	84.000	82.710	83.970

Power Spectral Density Measurement									
Band	CH	Frequency (MHz)	Measurement				Duty Factor	Calculated	Limit
			Ant-0	Ant-1	Ant-2	Ant-3		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11a	52	5260	0.167	0.151	0.157	0.152	0.094	6.271	6.590
	56	5280	0.159	0.123	0.113	0.151	0.094	6.251	6.590
	64	5320	0.120	0.162	0.159	-0.025	0.094	6.219	6.590
	100	5500	-0.774	-0.729	-0.736	-0.746	0.094	5.368	5.700
	112	5560	-0.788	-0.754	-0.662	-0.963	0.094	5.324	5.700
	140	5700	-0.697	-0.673	-0.694	-0.775	0.094	5.405	5.700
802.11ac VHT20	52	5260	4.739	4.687	4.669	4.601	0.026	10.721	11.000
	56	5280	4.727	4.701	4.710	4.633	0.026	10.739	11.000
	64	5320	4.729	4.700	4.715	4.390	0.026	10.682	11.000
	100	5500	4.707	4.720	4.714	4.545	0.026	10.719	11.000
	112	5560	4.718	4.679	4.706	4.421	0.026	10.679	11.000
	140	5700	4.725	4.705	4.771	4.594	0.026	10.746	11.000
802.11ac VHT40	54	5270	4.007	3.458	3.210	3.351	0.092	9.630	11.000
	62	5310	0.120	0.425	0.044	-0.024	0.092	6.257	11.000
	102	5510	0.804	0.674	0.727	0.337	0.092	6.752	11.000
	110	5550	3.293	3.440	3.315	2.964	0.092	9.369	11.000
	134	5670	3.251	3.007	2.745	2.532	0.092	9.005	11.000
802.11ac VHT80	58	5290	-5.838	-5.657	-6.011	-5.684	0.148	0.373	11.000
	106	5530	-6.556	-6.539	-6.873	-6.909	0.148	-0.547	11.000

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

Beamforming on

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11n HT20	52	5260	9.5	9.5	9.5	9.5	QSPR 5.0-00188
	56	5280	10	10	10	10	
	60	5300	10	10	10	10	
	64	5320	10	10	10	10	
	100	5500	10.5	10.5	10.5	10.5	
	112	5560	10	10	10	10	
	116	5580	10	10	10	10	
	132	5660	10	10	10	10	
	140	5700	10	10	10	10	
802.11n HT40	54	5270	11.5	11.5	11.5	11.5	QSPR 5.0-00188
	62	5310	8.5	8.5	8.5	8.5	
	102	5510	9.5	9.5	9.5	9.5	
	110	5550	11.5	11.5	11.5	11.5	
	134	5670	11	11	11	11	
Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11ac VHT20	52	5260	9.5	9.5	9.5	9.5	QSPR 5.0-00188
	56	5280	10	10	10	10	
	60	5300	10	10	10	10	
	64	5320	10	10	10	10	
	100	5500	10.5	10.5	10.5	10.5	
	112	5560	10	10	10	10	
	116	5580	10	10	10	10	
	132	5660	10	10	10	10	
	140	5700	10	10	10	10	
802.11ac VHT40	54	5270	11.5	11.5	11.5	11.5	QSPR 5.0-00188
	62	5310	8.5	8.5	8.5	8.5	
	102	5510	9.5	9.5	9.5	9.5	
	110	5550	11.5	11.5	11.5	11.5	
	134	5670	11	11	11	11	
802.11ac VHT80	58	5290	5.5	5.5	5.5	5.5	QSPR 5.0-00188
	106	5530	5	5	5	5	

Maximum Conducted Output Power Measurement

Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11n HT20	26M	52	5260	10.15	9.77	9.53	9.55	15.78	19.59
		56	5280	10.31	10.29	10.12	9.87	16.17	19.59
		60	5300	10.29	10.18	10.09	9.83	16.12	19.59
		64	5320	10.15	10.19	10.25	9.55	16.06	19.59
		100	5500	10.39	10.51	10.36	10.02	16.34	18.70
		112	5560	10.17	10.21	10.30	9.86	16.16	18.70
		116	5580	10.14	10.14	10.17	9.84	16.10	18.70
		132	5660	10.10	10.15	10.25	9.78	16.09	18.70
		140	5700	10.66	10.37	10.18	10.36	16.42	18.70
802.11n HT40	54M	54	5270	11.82	11.52	11.21	11.35	17.50	19.59
		62	5310	8.39	8.58	8.13	8.05	14.31	19.59
		102	5510	9.26	9.12	8.91	8.86	15.06	18.70
		110	5550	11.42	11.64	11.10	10.84	17.28	18.70
		134	5670	11.55	11.51	11.03	10.73	17.24	18.70
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11ac VHT20	26M	52	5260	10.25	9.93	9.82	9.81	15.98	19.59
		56	5280	10.60	10.44	10.34	10.15	16.41	19.59
		60	5300	10.56	10.40	10.30	10.10	16.36	19.59
		64	5320	10.35	10.40	10.50	9.77	16.28	19.59
		100	5500	10.68	10.63	10.48	10.15	16.51	18.70
		112	5560	10.45	10.44	10.45	10.03	16.37	18.70
		116	5580	10.42	10.40	10.44	10.00	16.34	18.70
		132	5660	10.40	10.36	10.39	9.95	16.30	18.70
		140	5700	10.82	10.58	10.43	10.50	16.61	18.70
802.11ac VHT40	54M	54	5270	12.01	11.82	11.44	11.56	17.73	19.59
		62	5310	8.64	8.76	8.24	8.24	14.50	19.59
		102	5510	9.39	9.36	9.07	9.04	15.24	18.70
		110	5550	11.65	11.76	11.37	11.05	17.49	18.70
		134	5670	11.72	11.68	11.29	10.97	17.45	18.70
802.11ac VHT80	117.2M	58	5290	5.93	6.18	5.75	5.57	11.88	19.59
		106	5530	5.38	5.52	4.98	4.81	11.20	18.70

Maximum Conducted Output Power Measurement_Transmit power control												
Band	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	E.I.R.P		EIRP Power Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total		Gain	Calculated Results	
				dBm	dBm	dBm	dBm	dBm		dB	dBm	
802.11n HT20	26M	52	5260	4.15	3.77	3.53	3.55	9.78	-	10.41	20.19	24.00
		56	5280	4.31	4.29	4.12	3.87	10.17	-	10.41	20.58	24.00
		60	5300	4.29	4.18	4.09	3.83	10.12	-	10.41	20.53	24.00
		64	5320	4.15	4.19	4.25	3.55	10.06	-	10.41	20.47	24.00
		100	5500	4.39	4.51	4.36	4.02	10.34	-	11.30	21.64	24.00
		112	5560	4.17	4.21	4.30	3.86	10.16	-	11.30	21.46	24.00
		116	5580	4.14	4.14	4.17	3.84	10.10	-	11.30	21.40	24.00
		132	5660	4.10	4.15	4.25	3.78	10.09	-	11.30	21.39	24.00
		140	5700	4.66	4.37	4.18	4.36	10.42	-	11.30	21.72	24.00
802.11n HT40	54M	54	5270	5.82	5.52	5.21	5.35	11.50	-	10.41	21.91	24.00
		62	5310	2.39	2.58	2.13	2.05	8.31	-	10.41	18.72	24.00
		102	5510	3.26	3.12	2.91	2.86	9.06	-	11.30	20.36	24.00
		110	5550	5.42	5.64	5.10	4.84	11.28	-	11.30	22.58	24.00
		134	5670	5.55	5.51	5.03	4.73	11.24	-	11.30	22.54	24.00

Band	Data Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit	E.I.R.P		EIRP Power Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total		Gain	Calculated Results	
				dBm	dBm	dBm	dBm	dBm		dB	dBm	
802.11ac VHT20	MCS 0	52	5260	4.25	3.93	3.82	3.81	9.98	-	10.41	20.39	24.00
		56	5280	4.60	4.44	4.34	4.15	10.41	-	10.41	20.82	24.00
		60	5300	4.56	4.40	4.30	4.10	10.36	-	10.41	20.77	24.00
		64	5320	4.35	4.40	4.50	3.77	10.28	-	10.41	20.69	24.00
		100	5500	4.68	4.63	4.48	4.15	10.51	-	11.30	21.81	24.00
		112	5560	4.45	4.44	4.45	4.03	10.37	-	11.30	21.67	24.00
		116	5580	4.42	4.40	4.44	4.00	10.34	-	11.30	21.64	24.00
		132	5660	4.40	4.36	4.39	3.95	10.30	-	11.30	21.60	24.00
		140	5700	4.82	4.58	4.43	4.50	10.61	-	11.30	21.91	24.00
802.11ac VHT40	MCS 0	54	5270	6.01	5.82	5.44	5.56	11.73	-	10.41	22.14	24.00
		62	5310	2.64	2.76	2.24	2.24	8.50	-	10.41	18.91	24.00
		102	5510	3.39	3.36	3.07	3.04	9.24	-	11.30	20.54	24.00
		110	5550	5.65	5.76	5.37	5.05	11.49	-	11.30	22.79	24.00
		134	5670	5.72	5.68	5.29	4.97	11.45	-	11.30	22.75	24.00
802.11ac VHT80	MCS 0	58	5290	-0.07	0.18	-0.25	-0.43	5.88	-	10.41	16.29	24.00
		106	5530	-0.62	-0.48	-1.02	-1.19	5.20	-	11.30	16.50	24.00

QCA9889

Duty cycle						
Band	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	5260	2.048	2.104	97.338	0.117	0.488
802.11ac VHT20	5260	1.920	1.968	97.561	0.107	0.521
802.11ac VHT40	5270	0.945	1.005	94.030	0.267	1.058
802.11ac VHT80	5290	0.462	0.522	88.506	0.530	2.165

RF power setting in Test SW

Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11a	52	5260	8	-	-	-	QSPR 5.0-00188
	56	5280	8	-	-	-	
	60	5300	8	-	-	-	
	64	5320	8	-	-	-	
	100	5500	8	-	-	-	
	112	5560	8	-	-	-	
	116	5580	8	-	-	-	
	132	5660	8	-	-	-	
	140	5700	8	-	-	-	
802.11n HT20	52	5260	8	-	-	-	QSPR 5.0-00188
	56	5280	8	-	-	-	
	60	5300	8	-	-	-	
	64	5320	8	-	-	-	
	100	5500	8	-	-	-	
	112	5560	8	-	-	-	
	116	5580	8	-	-	-	
	132	5660	8	-	-	-	
	140	5700	8	-	-	-	
802.11n HT40	54	5270	8	-	-	-	QSPR 5.0-00188
	62	5310	8	-	-	-	
	102	5510	8	-	-	-	
	110	5550	8	-	-	-	
	134	5670	8	-	-	-	
Mode	CH	Frequency (MHz)	Ant-0	Ant-1	Ant-2	Ant-3	Test SW Version
802.11ac VHT20	52	5260	8	-	-	-	QSPR 5.0-00188
	56	5280	8	-	-	-	
	60	5300	8	-	-	-	
	64	5320	8	-	-	-	
	100	5500	8	-	-	-	
	112	5560	8	-	-	-	
	116	5580	8	-	-	-	
	132	5660	8	-	-	-	
	140	5700	8	-	-	-	
802.11ac VHT40	54	5270	8	-	-	-	QSPR 5.0-00188
	62	5310	8	-	-	-	
	102	5510	8	-	-	-	
	110	5550	8	-	-	-	
	134	5670	8	-	-	-	
802.11ac VHT80	58	5290	8	-	-	-	QSPR 5.0-00188
	106	5530	8	-	-	-	

Maximum Conducted Output Power Measurement									
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11a	6M	52	5260	8.28	-	-	-	-	24.00
		56	5280	8.56	-	-	-	-	24.00
		60	5300	8.50	-	-	-	-	24.00
		64	5320	8.81	-	-	-	-	24.00
		100	5500	10.41	-	-	-	-	24.00
		112	5560	9.74	-	-	-	-	24.00
		116	5580	9.70	-	-	-	-	24.00
		132	5660	9.72	-	-	-	-	24.00
		140	5700	10.28	-	-	-	-	24.00
802.11n HT20	6.5M	52	5260	7.92	-	-	-	-	24.00
		56	5280	8.34	-	-	-	-	24.00
		60	5300	8.24	-	-	-	-	24.00
		64	5320	8.39	-	-	-	-	24.00
		100	5500	10.18	-	-	-	-	24.00
		112	5560	9.52	-	-	-	-	24.00
		116	5580	9.46	-	-	-	-	24.00
		132	5660	9.38	-	-	-	-	24.00
		140	5700	9.95	-	-	-	-	24.00
802.11n HT40	13.5M	54	5270	7.92	-	-	-	-	24.00
		62	5310	8.26	-	-	-	-	24.00
		102	5510	9.61	-	-	-	-	24.00
		110	5550	9.16	-	-	-	-	24.00
		134	5670	9.30	-	-	-	-	24.00
Band	Date Rate or Sub-test	CH	Frequency (MHz)	Average power					Limit
				Ant-0	Ant-1	Ant-2	Ant-3	Total	
				dBm	dBm	dBm	dBm	dBm	
802.11ac VHT20	6.5M	52	5260	8.16	-	-	-	-	24.00
		56	5280	8.46	-	-	-	-	24.00
		60	5300	8.45	-	-	-	-	24.00
		64	5320	8.67	-	-	-	-	24.00
		100	5500	10.28	-	-	-	-	24.00
		112	5560	9.66	-	-	-	-	24.00
		116	5580	9.65	-	-	-	-	24.00
		132	5660	9.64	-	-	-	-	24.00
		140	5700	10.19	-	-	-	-	24.00
802.11ac VHT40	13.5M	54	5270	8.05	-	-	-	-	24.00
		62	5310	8.46	-	-	-	-	24.00
		102	5510	9.75	-	-	-	-	24.00
		110	5550	9.42	-	-	-	-	24.00
		134	5670	9.55	-	-	-	-	24.00
802.11ac VHT80	29.3M	58	5290	8.10	-	-	-	-	24.00
		106	5530	9.26	-	-	-	-	24.00

26 dB & 99 % RF Bandwidth Measurement

Band	CH	Freq. (MHz)	99 % Bandwidth				26 dB Bandwidth			
			Ant-0	Ant-1	Ant-2	Ant-3	Ant-0	Ant-1	Ant-2	Ant-3
			MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
802.11a	52	5260	17.334	-	-	-	25.850	-	-	-
	56	5280	17.342	-	-	-	26.000	-	-	-
	64	5320	17.490	-	-	-	26.390	-	-	-
	100	5500	17.602	-	-	-	27.830	-	-	-
	112	5560	17.454	-	-	-	26.290	-	-	-
	140	5700	17.454	-	-	-	26.230	-	-	-
802.11ac VHT20	52	5260	18.398	-	-	-	26.220	-	-	-
	56	5280	18.429	-	-	-	25.470	-	-	-
	64	5320	18.498	-	-	-	27.370	-	-	-
	100	5500	18.589	-	-	-	27.810	-	-	-
	112	5560	18.594	-	-	-	27.230	-	-	-
	140	5700	18.463	-	-	-	27.690	-	-	-
802.11ac VHT40	54	5270	37.270	-	-	-	48.910	-	-	-
	62	5310	37.344	-	-	-	51.840	-	-	-
	102	5510	37.467	-	-	-	51.770	-	-	-
	110	5550	37.346	-	-	-	53.410	-	-	-
	134	5670	37.406	-	-	-	53.130	-	-	-
802.11ac VHT80	58	5290	76.909	-	-	-	103.400	-	-	-
	106	5530	77.161	-	-	-	106.400	-	-	-

Power Spectral Density Measurement									
Band	CH	Frequency (MHz)	Measurement				Duty Factor	Calculated	Limit
			Ant-0	Ant-1	Ant-2	Ant-3		Total	
			dBm/MHz	dBm/MHz	dBm/MHz	dBm/MHz		dBm/MHz	
802.11a	52	5260	-2.748	-	-	-	0.117	-2.631	11.000
	56	5280	-2.726	-	-	-	0.117	-2.609	11.000
	64	5320	-2.683	-	-	-	0.117	-2.566	11.000
	100	5500	-1.419	-	-	-	0.117	-1.302	11.000
	112	5560	-1.792	-	-	-	0.117	-1.675	11.000
	140	5700	-1.486	-	-	-	0.117	-1.369	11.000
802.11ac VHT20	52	5260	-3.222	-	-	-	0.107	-3.115	11.000
	56	5280	-2.973	-	-	-	0.107	-2.866	11.000
	64	5320	-3.238	-	-	-	0.107	-3.131	11.000
	100	5500	-1.673	-	-	-	0.107	-1.566	11.000
	112	5560	-2.048	-	-	-	0.107	-1.941	11.000
	140	5700	-1.868	-	-	-	0.107	-1.761	11.000
802.11ac VHT40	54	5270	-6.210	-	-	-	0.267	-5.943	11.000
	62	5310	-6.254	-	-	-	0.267	-5.987	11.000
	102	5510	-5.370	-	-	-	0.267	-5.103	11.000
	110	5550	-5.459	-	-	-	0.267	-5.192	11.000
	134	5670	-5.493	-	-	-	0.267	-5.226	11.000
802.11ac VHT80	58	5290	-9.054	-	-	-	0.530	-8.524	11.000
	106	5530	-8.734	-	-	-	0.530	-8.204	11.000

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