

A.3 6dB OCCUPIED BANDWIDTH

Test Date	2019/09/19 ~ 25	Temp./Hum.	24~25°C/50~54%
Cable Loss	0.5dB	Tested By	Martin Chen
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

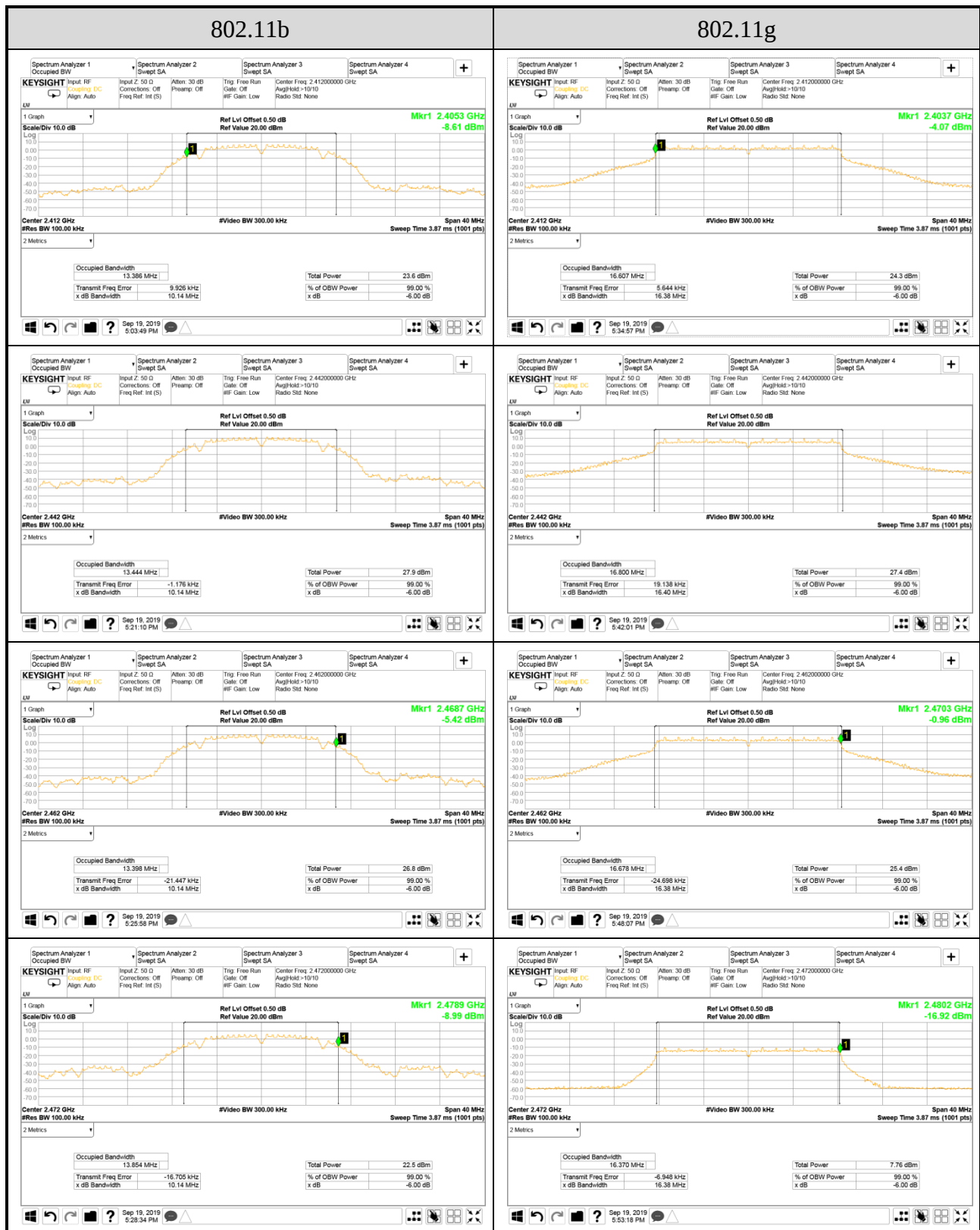
A.3.1 Emission Bandwidth Result

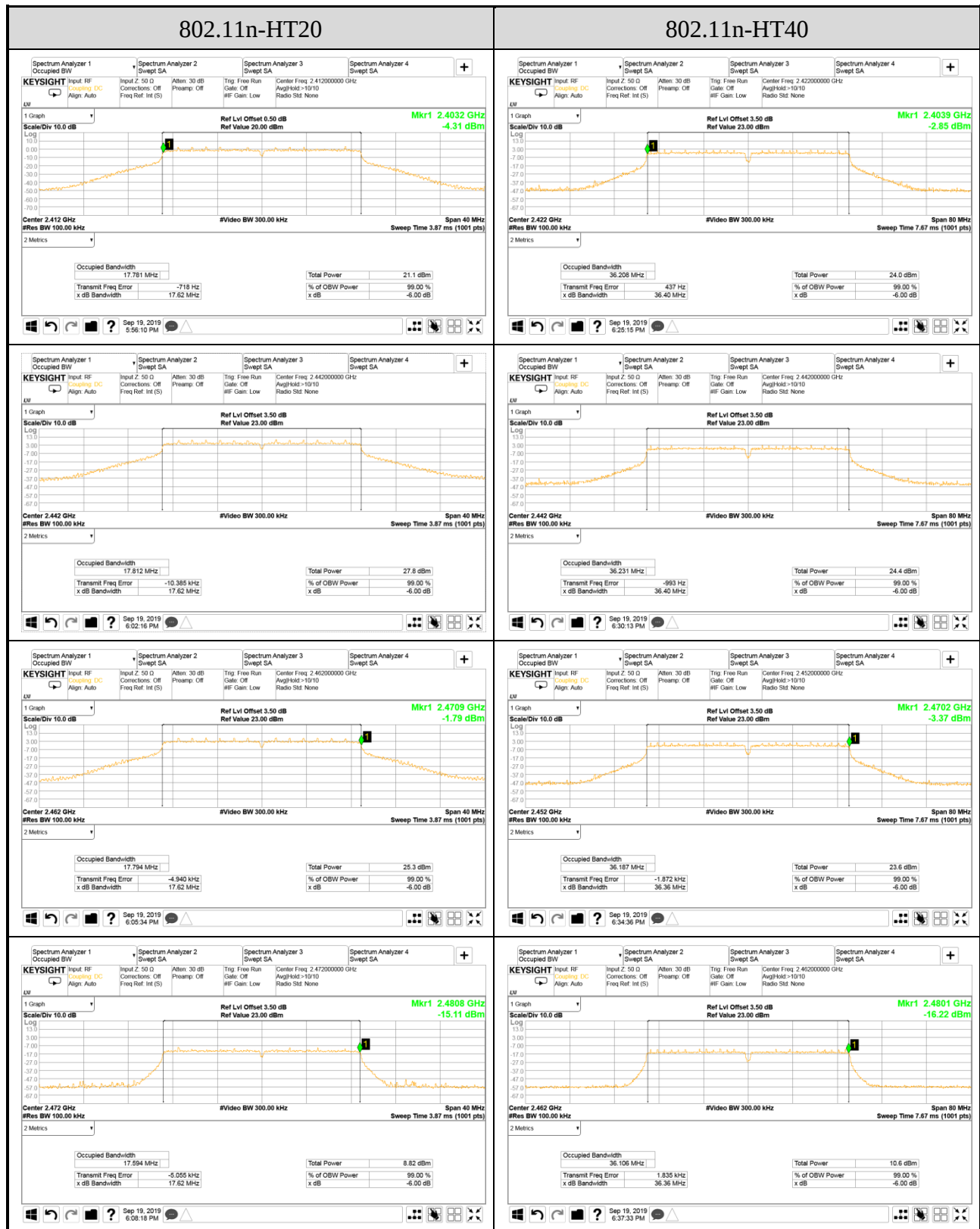
Mode	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
802.11b	2412	10.14	13.386	>500kHz
	2442	10.14	13.444	
	2462	10.14	13.398	
	2472	10.14	13.854	
802.11g	2412	16.38	16.607	
	2442	16.40	16.800	
	2462	16.38	16.678	
	2472	16.38	16.370	
802.11n-HT20	2412	17.62	17.781	
	2442	17.62	17.812	
	2462	17.62	17.794	
	2472	17.62	17.594	
802.11n-HT40	2422	36.40	36.208	
	2442	36.40	36.231	
	2452	36.36	36.187	
	2462	36.36	36.106	
802.11ax-HE20	2412	18.98	18.978	
	2442	18.85	18.988	
	2462	18.85	19.011	
	2472	18.63	18.708	
802.11ax-HE40	2422	38.01	37.753	
	2442	38.02	37.729	
	2452	38.03	37.740	
	2462	37.77	37.474	

Mode	RU Configuration	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
802.11ax-HE20	26/0	2412	2.063	18.272	>500kHz
	52/37		14.48	18.129	
	106/53		17.19	18.198	
	26/8	2472	2.032	18.036	
	52/40		16.96	17.940	
	106/54		17.04	17.965	
802.11ax-HE40	242/61	2422	18.88	18.740	
	242/62	2462	18.58	18.513	

Mode	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
BLE	2402	0.6760	1.0648	>500kHz
	2440	0.6844	1.0613	
	2480	0.6956	1.0633	

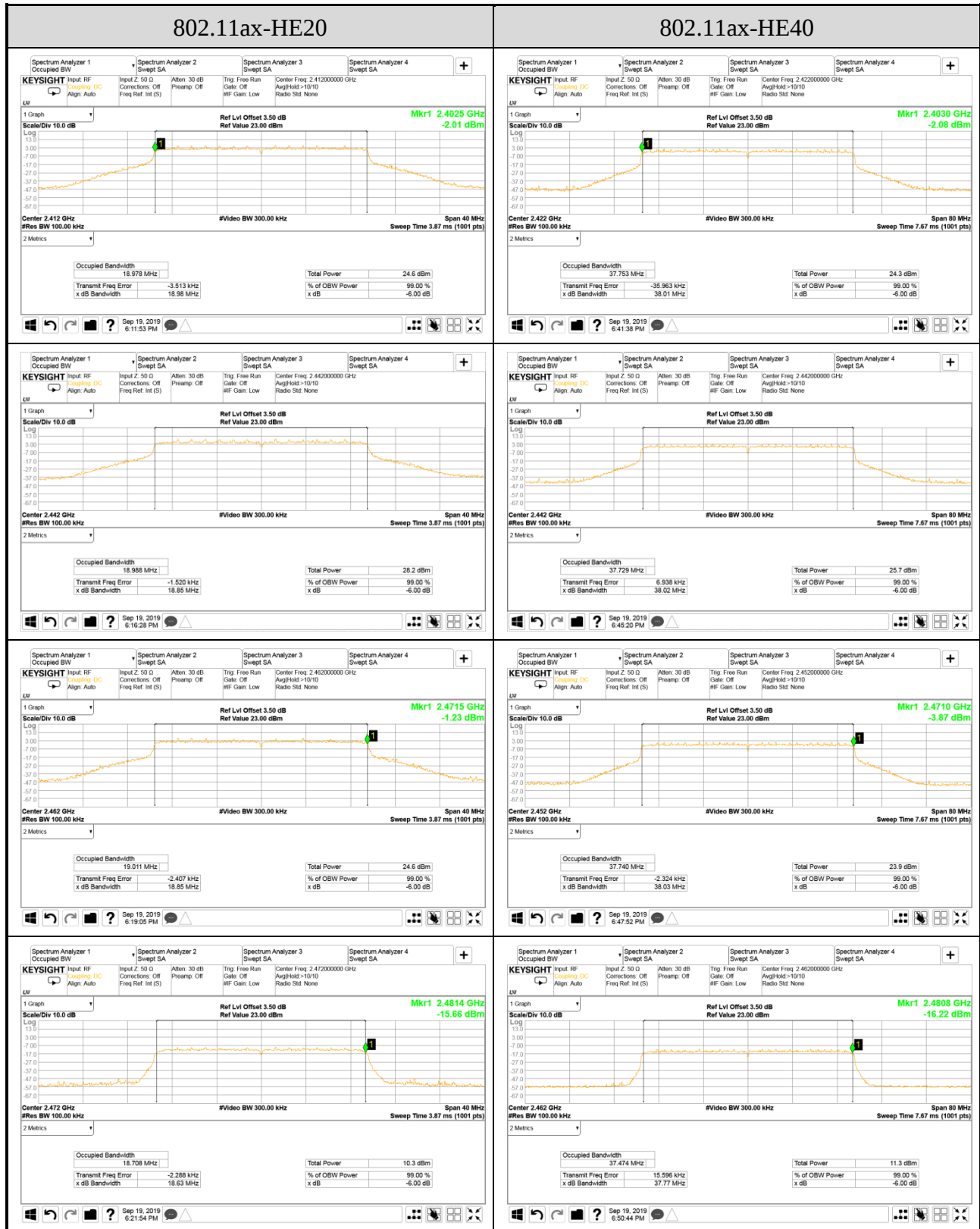
A.3.2 Measurement Plots





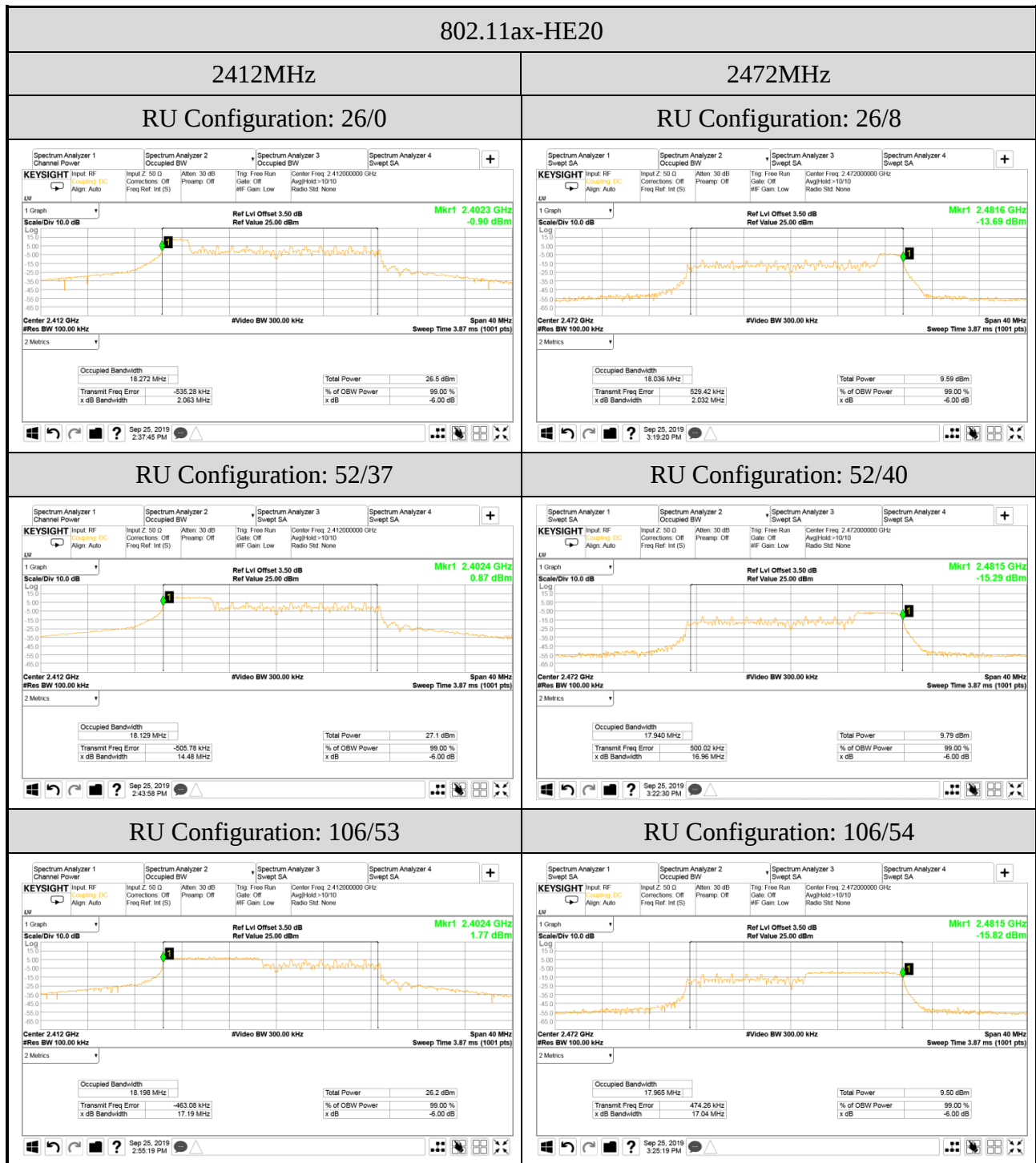
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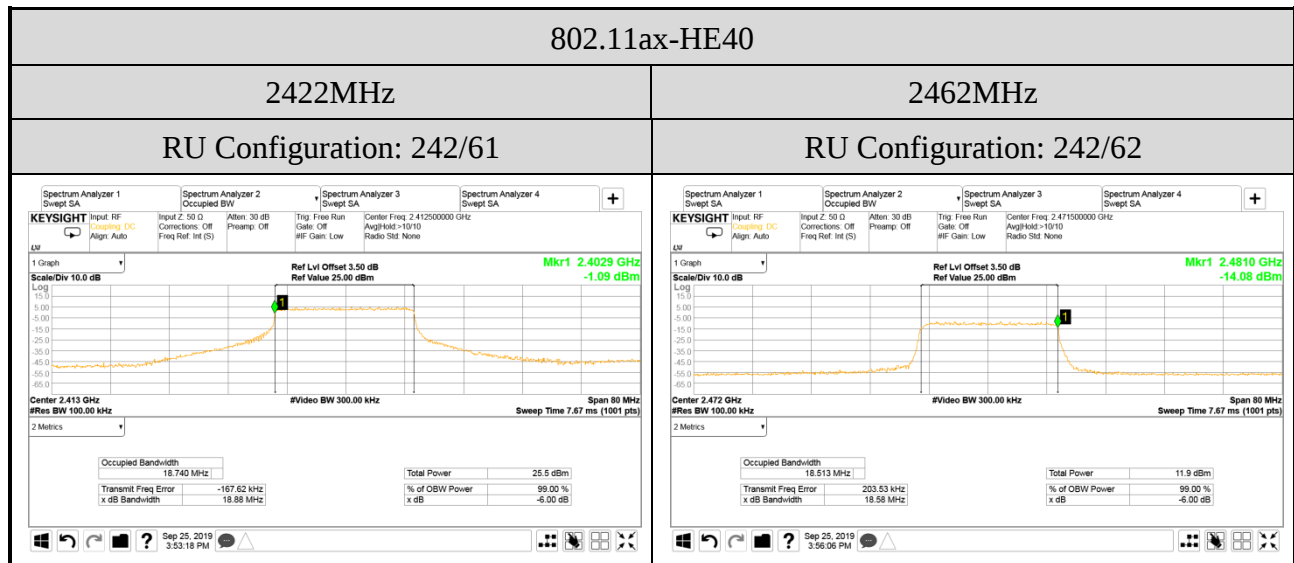
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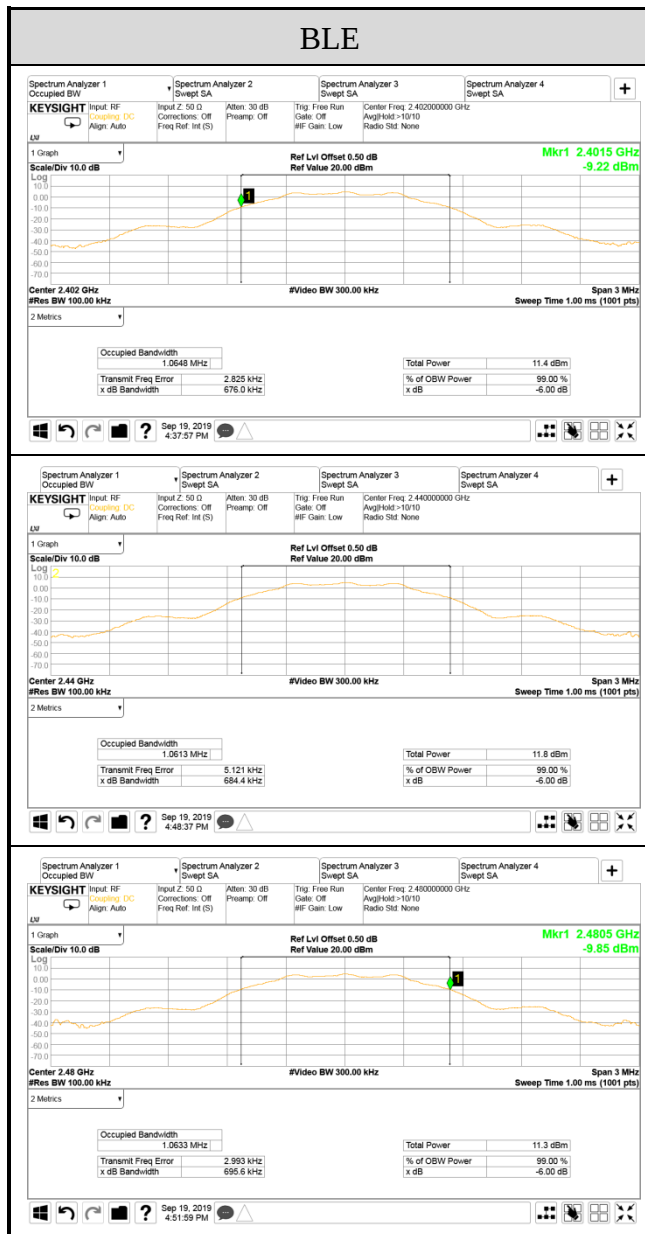
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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2019/09/19 ~ 25, 2021/06/29	Temp./Hum.	24~25°C/50~54%, 23°C/52%
Cable Loss	0.5dB	Tested By	Sean Wang/Kuper Hsu
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.4.1 Peak Output Power

SPOT CHECK

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11b	2412	21.3	21.65	21.65	0.146
	2417	21.91	22.36	22.36	0.172
	2442	22.45	21.93	22.45	0.176
	2457	22.21	22.02	22.21	0.166
	2462	21.56	21.38	21.56	0.143
	2467	20.6	19.84	20.60	0.115
	2472	15.46	15.46	15.46	0.035

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11g	2412	21.48	21.37	21.48	0.141
	2417	22.32	22.46	22.46	0.176
	2442	23.4	23.51	23.51	0.224
	2457	22.57	22.3	22.57	0.181
	2462	21.77	21.94	21.94	0.156
	2467	19.73	19.23	19.73	0.094
	2472	12.56	11.71	12.56	0.018

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

SPOT CHECK

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11n-HT20	2412	18.64	19.08	21.88	0.154
	2417	19.91	19.98	22.96	0.198
	2442	22.21	21.33	24.80	0.302
	2457	20.34	20.28	23.32	0.215
	2462	19.29	19.33	22.32	0.171
	2467	16.94	16.9	19.93	0.098
	2472	10.11	9.48	12.82	0.019

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11n-HT40	2422	19.15	19.14	22.16	0.164
	2427	17.47	18.35	20.94	0.124
	2442	19.57	19.98	22.79	0.190
	2447	19.69	19.5	22.61	0.182
	2452	18.81	18.44	21.64	0.146
	2457	15.25	14.94	18.11	0.065
	2462	11.72	10.77	14.28	0.027

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11ax-HE20	2412	18.81	18.86	21.85	0.153
	2417	20.07	19.99	23.04	0.201
	2442	21.76	22.07	24.93	0.311
	2457	20.02	20.22	23.13	0.206
	2462	19.77	19.23	22.52	0.179
	2467	17.04	16.69	19.88	0.097
	2472	10.05	9.8	12.94	0.020

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

SPOT CHECK

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
802.11ax-HE40	2422	18.63	19.25	21.96	0.157
	2427	17.61	17.78	20.71	0.118
	2442	19.55	19.57	22.57	0.181
	2447	20.03	19.33	22.70	0.186
	2452	18.53	17.92	21.25	0.133
	2457	14.93	14.51	17.74	0.059
	2462	11.65	10.63	14.18	0.026

Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
			Chain 0	Chain 1	(dBm)	(W)
802.11ax-HE20	26/0	2412	23.33	23.43	26.39	0.436
	52/37		23.22	23.57	26.41	0.438
	106/53		23.19	23.56	26.39	0.436
	26/8	2472	10.13	9.88	13.02	0.020
	52/40		10.25	10.01	13.14	0.021
	106/54		10.54	9.93	13.26	0.021

Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power	
			Chain 0	Chain 1	(dBm)	(W)
802.11ax-HE40	242/61	2422	20.85	20.06	23.48	0.223
	242/62	2467	14.77	12.47	16.78	0.048

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

SPOT CHECK

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power	
		Chain 0	Chain 1	(dBm)	(W)
BLE (1M)	2402	4.43	---	4.43	0.0028
	2440	4.94	---	4.94	0.0031
	2480	5.57	---	5.57	0.0036
BLE (2M)	2402	4.62	---	4.62	0.0028
	2440	4.97	---	4.97	0.0031
	2480	5.38	---	5.38	0.0036
BLE (PHY Coded S2)	2402	4.54	---	4.54	0.0028
	2440	4.96	---	4.96	0.0031
	2480	5.65	---	5.65	0.0036
BLE (PHY Coded S8)	2402	4.64	---	4.64	0.0028
	2440	4.95	---	4.95	0.0031
	2480	4.54	---	4.54	0.0036

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

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Test SKU: SKU #1

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	21.72	21.89	21.89	0.155	5.0	26.89	0.489	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	22.40	22.43	22.43	0.175		27.43	0.553	
	2442	22.53	22.52	22.53	0.179		27.53	0.566	
	2457	22.52	22.41	22.52	0.179		27.52	0.565	
	2462	21.61	21.55	21.61	0.145		26.61	0.458	
	2467	20.72	20.65	20.72	0.118		25.72	0.373	
	2472	15.64	15.56	15.64	0.037		20.64	0.116	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11g	2412	21.59	21.78	21.78	0.151	5.0	26.78	0.476	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	22.49	22.46	22.49	0.177		27.49	0.561	
	2442	23.71	23.81	23.81	0.240		28.81	0.760	
	2457	22.77	22.64	22.77	0.189		27.77	0.598	
	2462	22.14	22.05	22.14	0.164		27.14	0.518	
	2467	19.81	19.79	19.81	0.096		24.81	0.303	
	2472	12.92	12.29	12.92	0.020		17.92	0.062	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	19.04	19.25	22.16	0.164	5.0	27.16	0.520	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.21	20.11	23.17	0.207		28.17	0.656	
	2442	22.01	21.96	25.00	0.316		30.00	1.000	
	2457	20.38	20.34	23.37	0.217		28.37	0.687	
	2462	19.65	19.51	22.59	0.182		27.59	0.574	
	2467	17.11	17.01	20.07	0.102		25.07	0.321	
	2472	10.01	9.81	12.92	0.020		17.92	0.062	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	19.32	19.22	22.28	0.169	5.0	27.28	0.535	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	18.22	18.17	21.21	0.132		26.21	0.418	
	2442	19.96	19.82	22.90	0.195		27.90	0.617	
	2447	19.98	19.93	22.97	0.198		27.97	0.627	
	2452	18.69	18.64	21.68	0.147		26.68	0.466	
	2457	15.36	15.14	18.26	0.067		23.26	0.212	
	2462	12.02	11.02	14.56	0.029		19.56	0.090	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	18.98	19.22	22.11	0.163	5.0	27.11	0.514	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.23	20.17	23.21	0.209		28.21	0.662	
	2442	21.93	21.95	24.95	0.313		29.95	0.989	
	2457	20.40	20.21	23.32	0.215		28.32	0.679	
	2462	19.63	19.53	22.59	0.182		27.59	0.574	
	2467	16.98	17.04	20.02	0.100		25.02	0.318	
	2472	10.21	9.91	13.07	0.020		18.07	0.064	

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	2422	19.08	19.13	22.12	0.163	5.0	27.12	0.515	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	18.02	17.94	20.99	0.126		25.99	0.397	
	2442	19.84	19.79	22.83	0.192		27.83	0.607	
	2447	19.81	19.73	22.78	0.190		27.78	0.600	
	2452	18.35	18.41	21.39	0.138		26.39	0.436	
	2457	15.11	14.94	18.04	0.064		23.04	0.201	
	2462	11.93	10.60	14.33	0.027		19.33	0.086	

Note: The results have been included cable loss.

Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	26/0	2412	23.52	23.65	26.60	0.457	5.0	31.60	1.445	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	52/37		23.55	23.62	26.60	0.457		31.60	1.445	
	106/53		23.42	23.67	26.56	0.453		31.56	1.432	
	26/8	2472	10.74	10.07	13.43	0.022		18.43	0.070	
	52/40		10.93	10.11	13.55	0.023		18.55	0.072	
	106/54		10.97	10.24	13.63	0.023		18.63	0.073	

Note: The results have been included cable loss.

Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	242/61	2422	23.44	23.65	26.56	0.453	5.0	31.56	1.432	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	242/62	2467	14.18	14.08	17.14	0.052		22.14	0.164	

Note: The results have been included cable loss.

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		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
BLE (1M)	2402	4.85	---	4.85	0.0031	5.0	9.85	0.0097	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2440	5.37	---	5.37	0.0034		10.37	0.0109	
	2480	4.66	---	4.66	0.0029		9.66	0.0092	
BLE (2M)	2402	4.84	---	4.84	0.0030		9.84	0.0096	
	2440	5.37	---	5.37	0.0034		10.37	0.0109	
	2480	4.66	---	4.66	0.0029		9.66	0.0092	
BLE (PHY Coded S2)	2402	4.82	---	4.82	0.0030		9.82	0.0096	
	2440	5.36	---	5.36	0.0034		10.36	0.0109	
	2480	4.65	---	4.65	0.0029		9.65	0.0092	
BLE (PHY Coded S8)	2402	4.82	---	4.82	0.0030		9.82	0.0096	
	2440	5.36	---	5.36	0.0034		10.36	0.0109	
	2480	4.65	---	4.65	0.0029		9.65	0.0092	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	21.72	21.89	21.89	0.155	1.8	23.69	0.234	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	22.40	22.43	22.43	0.175		24.23	0.265	
	2442	22.53	22.52	22.53	0.179		24.33	0.271	
	2457	22.52	22.41	22.52	0.179		24.32	0.270	
	2462	21.61	21.55	21.61	0.145		23.41	0.219	
	2467	20.72	20.65	20.72	0.118		22.52	0.179	
	2472	15.64	15.56	15.64	0.037		17.44	0.055	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11g	2412	21.59	21.78	21.78	0.151	1.8	23.58	0.228	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	22.49	22.46	22.49	0.177		24.29	0.269	
	2442	23.71	23.81	23.81	0.240		25.61	0.364	
	2457	22.77	22.64	22.77	0.189		24.57	0.286	
	2462	22.14	22.05	22.14	0.164		23.94	0.248	
	2467	19.81	19.79	19.81	0.096		21.61	0.145	
	2472	12.92	12.29	12.92	0.020		14.72	0.030	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	19.04	19.25	22.16	0.164	1.8	23.96	0.249	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.21	20.11	23.17	0.207		24.97	0.314	
	2442	22.01	21.96	25.00	0.316		26.80	0.479	
	2457	20.38	20.34	23.37	0.217		25.17	0.329	
	2462	19.65	19.51	22.59	0.182		24.39	0.275	
	2467	17.11	17.01	20.07	0.102		21.87	0.154	
	2472	10.01	9.81	12.92	0.020		14.72	0.030	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	19.32	19.22	22.28	0.169	1.8	24.08	0.256	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	18.22	18.17	21.21	0.132		23.01	0.200	
	2442	19.96	19.82	22.90	0.195		24.70	0.295	
	2447	19.98	19.93	22.97	0.198		24.77	0.300	
	2452	18.69	18.64	21.68	0.147		23.48	0.223	
	2457	15.36	15.14	18.26	0.067		20.06	0.101	
	2462	12.02	11.02	14.56	0.029		16.36	0.043	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	18.98	19.22	22.11	0.163	1.8	23.91	0.246	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.23	20.17	23.21	0.209		25.01	0.317	
	2442	21.93	21.95	24.95	0.313		26.75	0.473	
	2457	20.40	20.21	23.32	0.215		25.12	0.325	
	2462	19.63	19.53	22.59	0.182		24.39	0.275	
	2467	16.98	17.04	20.02	0.100		21.82	0.152	
	2472	10.21	9.91	13.07	0.020		14.87	0.031	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	2422	19.08	19.13	22.12	0.163	1.8	23.92	0.247	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	18.02	17.94	20.99	0.126		22.79	0.190	
	2442	19.84	19.79	22.83	0.192		24.63	0.290	
	2447	19.81	19.73	22.78	0.190		24.58	0.287	
	2452	18.35	18.41	21.39	0.138		23.19	0.208	
	2457	15.11	14.94	18.04	0.064		19.84	0.096	
	2462	11.93	10.60	14.33	0.027		16.13	0.041	

Note: The results have been included cable loss.

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Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	26/0	2412	23.52	23.65	26.60	0.457	1.8	28.40	0.692	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	52/37		23.55	23.62	26.60	0.457		28.40	0.692	
	106/53		23.42	23.67	26.56	0.453		28.36	0.685	
	26/8	2472	10.74	10.07	13.43	0.022		15.23	0.033	
	52/40		10.93	10.11	13.55	0.023		15.35	0.034	
	106/54		10.97	10.24	13.63	0.023		15.43	0.035	

Note: The results have been included cable loss.

Mode	RU Configuration	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	242/61	2422	23.44	13.65	23.87	0.244	1.8	25.67	0.369	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	242/62	2467	14.18	14.08	17.14	0.052		18.94	0.078	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max. Peak Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
BLE (1M)	2402	4.85	---	4.85	0.0031	1.8	6.65	0.0046	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2440	5.37	---	5.37	0.0034		7.17	0.0052	
	2480	4.66	---	4.66	0.0029		6.46	0.0044	
BLE (2M)	2402	4.84	---	4.84	0.0030		6.64	0.0046	
	2440	5.37	---	5.37	0.0034		7.17	0.0052	
	2480	4.66	---	4.66	0.0029		6.46	0.0044	
BLE (PHY Coded S2)	2402	4.82	---	4.82	0.0030		6.62	0.0046	
	2440	5.36	---	5.36	0.0034		7.16	0.0052	
	2480	4.65	---	4.65	0.0029		6.45	0.0044	
BLE (PHY Coded S8)	2402	4.82	---	4.82	0.0030		6.62	0.0046	
	2440	5.36	---	5.36	0.0034		7.16	0.0052	
	2480	4.65	---	4.65	0.0029		6.45	0.0044	

Note: The results have been included cable loss.

A.4.2 Average Output Power (Reporting only)

SPOT CHECK

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11b	2412	18.88	19.21	0	19.21	0.083
	2417	19.57	19.82		19.82	0.096
	2442	19.47	19.91		19.91	0.098
	2457	19.35	19.74		19.74	0.094
	2462	18.94	18.65		18.94	0.078
	2467	17.4	17.99		17.99	0.063
	2472	11.99	12.91		12.91	0.020

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11g	2412	16.47	16.51	0	16.51	0.045
	2417	17.77	17.74		17.77	0.060
	2442	19.23	19.36		19.36	0.086
	2457	18.08	18.02		18.08	0.064
	2462	17.03	17.23		17.23	0.053
	2467	14.59	14.63		14.63	0.029
	2472	1.31	1.03		1.31	0.001

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11n-HT20	2412	13.80	13.82	0	16.82	0.048
	2417	15.43	15.35		18.40	0.069
	2442	17.32	16.98		20.17	0.104
	2457	15.68	15.30		18.51	0.071
	2462	14.44	14.33		17.39	0.055
	2467	11.77	11.61		14.70	0.030
	2472	-0.01	-0.94		2.56	0.002

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11n-HT40	2422	13.56	13.60	0	16.59	0.046
	2427	12.70	12.51		15.62	0.036
	2442	14.11	14.60		17.37	0.055
	2447	14.07	14.57		17.34	0.054
	2452	13.03	12.91		15.98	0.040
	2457	9.28	9.13		12.22	0.017
	2462	0.95	0.22		3.61	0.002

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11ax-HE20	2412	13.58	13.68	0	16.64	0.046
	2417	14.90	14.93		17.93	0.062
	2442	16.66	16.79		19.74	0.094
	2457	15.40	15.18		18.30	0.068
	2462	14.63	14.34		17.50	0.056
	2467	11.48	11.52		14.51	0.028
	2472	-0.11	-1.19		2.39	0.002

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
		Chain 0	Chain 1		(dBm)	(W)
802.11ax-HE40	2422	13.58	13.40	0	16.50	0.045
	2427	12.28	12.15		15.22	0.033
	2442	14.45	14.36		17.42	0.055
	2447	14.39	14.36		17.39	0.055
	2452	12.94	12.95		15.95	0.039
	2457	9.17	9.18		12.18	0.017
	2462	0.74	-0.15		3.32	0.002

Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
			Chain 0	Chain 1		(dBm)	(W)
802.11ax-HE20	26/0	2412	13.59	14.37	0	17.01	0.050
	52/37		13.76	14.13		16.96	0.050
	106/53		13.97	14.01		17.00	0.050
	26/8	2472	-2.08	-2.46		0.74	0.001
	52/40		-1.76	-1.83		1.22	0.001
	106/54		-1.71	-1.6		1.36	0.001

Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power	
			Chain 0	Chain 1		(dBm)	(W)
802.11ax-HE40	242/61	2422	13.69	13.51	0	16.61	0.046
	242/62	2467	1.68	-0.07		3.90	0.002

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.

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Test SKU: SKU #1

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	19.16	19.35	0	19.35	0.086	5.0	24.35	0.272	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	19.91	19.96		19.96	0.099		24.96	0.313	
	2442	20.04	20.02		20.04	0.101		25.04	0.319	
	2457	20.02	19.95		20.02	0.100		25.02	0.318	
	2462	19.08	18.91		19.08	0.081		24.08	0.256	
	2467	18.18	18.08		18.18	0.066		23.18	0.208	
	2472	13.08	13.05		13.08	0.020		18.08	0.064	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11g	2412	16.72	16.91	0	16.91	0.049	5.0	21.91	0.155	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	17.94	17.90		17.94	0.062		22.94	0.197	
	2442	19.63	19.74		19.74	0.094		24.74	0.298	
	2457	18.21	18.05		18.21	0.066		23.21	0.209	
	2462	17.47	17.37		17.47	0.056		22.47	0.177	
	2467	14.79	14.78		14.79	0.030		19.79	0.095	
	2472	1.52	1.28		1.52	0.001		6.52	0.004	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	14.01	14.23	0	17.13	0.052	5.0	22.13	0.163	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.45	15.38		18.43	0.070		23.43	0.220	
	2442	17.15	17.13		20.15	0.104		25.15	0.327	
	2457	15.63	15.55		18.60	0.072		23.60	0.229	
	2462	14.83	14.63		17.74	0.059		22.74	0.188	
	2467	11.95	11.84		14.91	0.031		19.91	0.098	
	2472	-0.04	-0.86		2.58	0.002		7.58	0.006	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	13.83	13.81	0	16.83	0.048	5.0	21.83	0.152	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	12.8	12.73		15.78	0.038		20.78	0.120	
	2442	14.65	14.59		17.63	0.058		22.63	0.183	
	2447	14.78	14.73		17.77	0.060		22.77	0.189	
	2452	13.14	13.22		16.19	0.042		21.19	0.132	
	2457	9.53	9.42		12.49	0.018		17.49	0.056	
	2462	1.41	0.54		4.01	0.003		9.01	0.008	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	13.92	14.12	0	17.03	0.050	5.0	22.03	0.160	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.28	15.22		18.26	0.067		23.26	0.212	
	2442	17.03	17.05		20.05	0.101		25.05	0.320	
	2457	15.56	15.39		18.49	0.071		23.49	0.223	
	2462	14.68	14.58		17.64	0.058		22.64	0.184	
	2467	11.78	11.79		14.80	0.030		19.80	0.095	
	2472	-0.11	-0.95		2.50	0.002		7.50	0.006	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	2422	13.66	13.7	0	16.69	0.047	5.0	21.69	0.148	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	12.61	12.49		15.56	0.036		20.56	0.114	
	2442	14.47	14.42		17.46	0.056		22.46	0.176	
	2447	14.58	14.55		17.58	0.057		22.58	0.181	
	2452	12.96	13.00		15.99	0.040		20.99	0.126	
	2457	9.28	9.24		12.27	0.017		17.27	0.053	
	2462	1.06	0.14		3.63	0.002		8.63	0.007	

Note: The results have been included cable loss.

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Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	26/0	2412	14.13	14.45	0	17.30	0.054	5.0	22.30	0.170	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	52/37		14.26	14.43		17.36	0.054		22.36	0.172	
	106/53		14.28	14.48		17.39	0.055		22.39	0.173	
	26/8	2472	-1.36	-2.57		1.09	0.001		6.09	0.004	
	52/40		-1.13	-2.29		1.34	0.001		6.34	0.004	
	106/54		-1.02	-2.05		1.51	0.001		6.51	0.004	

Note: The results have been included cable loss.

Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	242/61	2422	13.85	14.08	0	16.98	0.050	5.0	21.98	0.158	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	242/62	2467	1.27	1.17		4.23	0.003		9.23	0.008	

Note: The results have been included cable loss.

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	19.16	19.35	0	19.35	0.086	1.8	21.15	0.130	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	19.91	19.96		19.96	0.099		21.76	0.150	
	2442	20.04	20.02		20.04	0.101		21.84	0.153	
	2457	20.02	19.95		20.02	0.100		21.82	0.152	
	2462	19.08	18.91		19.08	0.081		20.88	0.122	
	2467	18.18	18.08		18.18	0.066		19.98	0.100	
	2472	13.08	13.05		13.08	0.020		14.88	0.031	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11g	2412	16.72	16.91	0	16.91	0.049	1.8	18.71	0.074	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	17.94	17.9		17.94	0.062		19.74	0.094	
	2442	19.63	19.74		19.74	0.094		21.54	0.143	
	2457	18.21	18.05		18.21	0.066		20.01	0.100	
	2462	17.47	17.37		17.47	0.056		19.27	0.085	
	2467	14.79	14.78		14.79	0.030		16.59	0.046	
	2472	1.52	1.28		1.52	0.001		3.32	0.002	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	14.01	14.23	0	17.13	0.052	1.8	18.93	0.078	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.45	15.38		18.43	0.070		20.23	0.105	
	2442	17.15	17.13		20.15	0.104		21.95	0.157	
	2457	15.63	15.55		18.60	0.072		20.40	0.110	
	2462	14.83	14.63		17.74	0.059		19.54	0.090	
	2467	11.95	11.84		14.91	0.031		16.71	0.047	
	2472	-0.04	-0.86		2.58	0.002		4.38	0.003	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	13.83	13.81	0	16.83	0.048	1.8	18.63	0.073	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	12.8	12.73		15.78	0.038		17.58	0.057	
	2442	14.65	14.59		17.63	0.058		19.43	0.088	
	2447	14.78	14.73		17.77	0.060		19.57	0.091	
	2452	13.14	13.22		16.19	0.042		17.99	0.063	
	2457	9.53	9.42		12.49	0.018		14.29	0.027	
	2462	1.41	0.54		4.01	0.003		5.81	0.004	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Total Average Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	2412	13.92	14.12	17.03	0.050	1.8	18.83	0.076	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.28	15.22	18.26	0.067		20.06	0.101	
	2442	17.03	17.05	20.05	0.101		21.85	0.153	
	2457	15.56	15.39	18.49	0.071		20.29	0.107	
	2462	14.68	14.58	17.64	0.058		19.44	0.088	
	2467	11.78	11.79	14.80	0.030		16.60	0.046	
	2472	-0.11	-0.95	2.50	0.002		4.30	0.003	

Note: The results have been included cable loss.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Total Average Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	2422	13.66	13.7	16.69	0.047	1.8	18.49	0.071	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	12.61	12.49	15.56	0.036		17.36	0.054	
	2442	14.47	14.42	17.46	0.056		19.26	0.084	
	2447	14.58	14.55	17.58	0.057		19.38	0.087	
	2452	12.96	13	15.99	0.040		17.79	0.060	
	2457	9.28	9.24	12.27	0.017		14.07	0.026	
	2462	1.06	0.14	3.63	0.002		5.43	0.003	

Note: The results have been included cable loss.

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Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE20	26/0	2412	14.13	14.45	0	17.30	0.054	1.8	19.10	0.081	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	52/37		14.26	14.43		17.36	0.054		19.16	0.082	
	106/53		14.28	14.48		17.39	0.055		19.19	0.083	
	26/8	2472	-1.36	-2.57		1.09	0.001		2.89	0.002	
	52/40		-1.13	-2.29		1.34	0.001		3.14	0.002	
	106/54		-1.02	-2.05		1.51	0.001		3.31	0.002	

Note: The results have been included cable loss.

Mode	RU Config	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
			Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)	
802.11ax-HE40	242/61	2422	13.85	14.08	0	16.98	0.050	1.8	18.78	0.076	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	242/62	2467	1.27	1.17		4.23	0.003		6.03	0.004	

Note: The results have been included cable loss.

A.4.3 Measurement Plots

