

Appendix D

Peak & MIMO power

2.4G RF-Avg

Main(TX0)				Aux(TX1)			
802.11b		Average Power Output (dBm)		802.11b		Average Power Output (dBm)	
CH	Frequency (MHz)	Data Rate (Mbps)		CH	Frequency (MHz)	Data Rate (Mbps)	
		1				1	
1	2412	17.96		1	2412	18.00	
6	2437	17.99		6	2437	18.00	
11	2462	18.00		11	2462	17.96	
12	2467	17.89		12	2467	17.88	
13	2472	15.71		13	2472	16.70	
802.11g		Average Power Output(dBm)		802.11g		Average Power Output(dBm)	
CH	Frequency (MHz)	Data Rate (Mbps)		CH	Frequency (MHz)	Data Rate (Mbps)	
		6				6	
1	2412	17.80		1	2412	17.95	
6	2437	17.75		6	2437	17.87	
11	2462	17.89		11	2462	17.77	
12	2467	14.92		12	2467	14.65	
13	2472	11.66		13	2472	11.87	
802.11n HT20		Average Power Output(dBm)		802.11n HT20		Average Power Output(dBm)	
CH	Frequency (MHz)	Data Rate (Mbps)		CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0				MCS0	
1	2412	17.84		1	2412	17.76	
6	2437	17.90		6	2437	17.78	
11	2462	17.89		11	2462	17.92	
12	2467	14.90		12	2467	14.57	
13	2472	11.64		13	2472	11.93	
802.11n HT40		Average Power Output(dBm)		802.11n HT40		Average Power Output(dBm)	
CH	Frequency (MHz)	Data Rate (Mbps)		CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0				MCS0	
3	2422	15.36		3	2422	15.68	
6	2437	17.35		6	2437	17.65	
9	2452	15.34		9	2452	16.76	
10	2457	12.05		10	2457	12.33	
11	2462	9.60		11	2462	10.65	
802.11ax HE20		Average Power Output(dBm)		802.11ax HE20		Average Power Output(dBm)	
CH	Frequency (MHz)	RU Config	Data Rate (Mbps)	CH	Frequency (MHz)	RU Config	Data Rate (Mbps)
			MCS0				MCS0
1	2412	full	17.84	1	2412	full	17.89
6	2437	full	17.84	6	2437	full	17.92
11	2462	full	17.94	11	2462	full	17.76
12	2467	full	14.80	12	2467	full	14.63
13	2472	full	11.58	13	2472	full	11.77
802.11ax HE40		Average Power Output(dBm)		802.11ax HE40		Average Power Output(dBm)	
CH	Frequency (MHz)	RU Config	Data Rate (Mbps)	CH	Frequency (MHz)	RU Config	Data Rate (Mbps)
			MCS0				MCS0
3	2422	full	15.38	3	2422	full	15.67
6	2437	full	17.31	6	2437	full	17.51
9	2452	full	15.43	9	2452	full	16.87
10	2457	full	12.16	10	2457	full	12.29
11	2462	full	9.55	11	2462	full	10.67

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2.4G RF-Peak

Main(TX0)

802.11b		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		1
1	2412	21.82
2	2417	21.68
6	2437	21.71
10	2457	21.65
11	2462	21.72
12	2467	21.66
13	2472	19.21

Aux(TX1)

802.11b		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		1
1	2412	21.73
2	2417	21.67
6	2437	21.81
10	2457	21.62
11	2462	21.65
12	2467	21.77
13	2472	20.35

MIMO

802.11g		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		6
1	2412	22.33
2	2417	22.26
6	2437	22.32
10	2457	22.28
11	2462	22.41
12	2467	19.82
13	2472	17.13

802.11g		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		6
1	2412	22.53
2	2417	22.41
6	2437	22.47
10	2457	22.39
11	2462	22.43
12	2467	19.36
13	2472	17.34

802.11n HT20		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		MCS0
1	2412	22.41
2	2417	22.38
6	2437	22.56
10	2457	22.34
11	2462	22.53
12	2467	19.81
13	2472	17.28

802.11n HT20		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		MCS0
1	2412	22.42
2	2417	22.36
6	2437	22.46
10	2457	22.38
11	2462	22.55
12	2467	19.37
13	2472	17.55

802.11n HT20		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		MCS8		
		ch 0	ch 1	ch 0+1
1	2412	22.28	22.35	25.33
2	2417	22.10	22.06	25.09
6	2437	22.28	22.18	25.24
10	2457	22.23	22.22	25.24
11	2462	22.48	22.31	25.41
12	2467	19.66	19.06	22.38
13	2472	16.95	17.22	20.10

802.11n HT40		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		MCS0
3	2422	21.16
6	2437	23.03
9	2452	21.37
10	2457	17.96
11	2462	15.93

802.11n HT40		Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)
		MCS0
3	2422	21.66
6	2437	23.18
9	2452	22.71
10	2457	18.03
11	2462	16.96

802.11n HT40		Peak Power Output(dBm)		
CH	Frequency (MHz)	Data Rate (Mbps)		
		MCS8		
		ch 0	ch 1	ch 0+1
3	2422	20.83	21.41	24.14
6	2437	22.78	23.09	25.95
9	2452	21.10	22.65	24.95
10	2457	17.71	17.98	20.86
11	2462	15.86	16.69	19.31

802.11ax HE20		RU Config	Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0	
1	2412	full	22.48
6	2437	full	22.64
11	2462	full	22.52
12	2467	full	19.72
13	2472	full	17.59

802.11ax HE20		RU Config	Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0	
1	2412	full	22.59
6	2437	full	22.61
11	2462	full	22.55
12	2467	full	19.54
13	2472	full	17.82

802.11 ax (20M)		RU Config	Peak Power Output(dBm)		
CH	Frequency (MHz)		Data Rate (Mbps)		
			MCS0		
			ch 0	ch 1	ch 0+1
1	2412	full	22.28	22.45	25.38
6	2437	full	22.53	22.34	25.45
11	2462	full	22.18	22.32	25.26
12	2467	full	19.64	19.26	22.46
13	2472	full	17.42	17.53	20.49

802.11ax HE40		RU Config	Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0	
3	2422	full	21.13
6	2437	full	22.99
9	2452	full	21.45
10	2457	full	17.89
11	2462	full	15.95

802.11ax HE40		RU Config	Peak Power Output(dBm)
CH	Frequency (MHz)	Data Rate (Mbps)	
		MCS0	
3	2422	full	21.70
6	2437	full	23.21
9	2452	full	22.83
10	2457	full	18.02
11	2462	full	16.98

802.11 ax (40M)		RU Config	Peak Power Output(dBm)		
CH	Frequency (MHz)		Data Rate (Mbps)		
			MCS0		
			ch 0	ch 1	ch 0+1
3	2422	full	20.82	21.47	24.17
6	2437	full	22.94	22.89	25.93
9	2452	full	21.34	22.63	25.04
10	2457	full	17.78	17.88	20.84
11	2462	full	15.83	16.88	19.40

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		<i>by power meter</i>		<i>unit: dBm</i>
1M		2402	2441	2480
<i>Avg</i>		9.12	9.22	9.55
<i>Peak</i>		9.53	9.65	9.77
2M		2402	2441	2480
<i>Avg</i>		6.90	6.94	6.99
<i>Peak</i>		8.41	8.55	8.62
3M		2402	2441	2480
<i>Avg</i>		6.88	6.82	6.93
<i>Peak</i>		8.44	8.58	8.64

		<i>by power meter</i>		<i>unit: dBm</i>
BLE 1M		2402	2440	2480
<i>Avg</i>		6.78	6.82	6.87
<i>Peak</i>		7.67	7.72	7.79

		<i>by power meter</i>		<i>unit: dBm</i>
BLE 2M		2402	2440	2480
<i>Avg</i>		6.21	6.35	6.28
<i>Peak</i>		7.95	8.03	8.11

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RF_Avg_MIMO

Main(TX0)

802.11a		Average Power Output(dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	6
36	5180	12.85
44	5220	12.86
48	5240	12.88
52	5260	13.27
60	5300	13.35
64	5320	13.30
100	5500	14.39
116	5580	14.38
140	5700	14.47
149	5745	14.95
157	5785	14.85
165	5825	14.85
169	5845	14.79
173	5865	14.83
177	5885	14.88

Aux(TX1)

802.11a		Average Power Output(dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	6
36	5180	12.82
44	5220	12.93
48	5240	12.86
52	5260	12.86
60	5300	12.94
64	5320	12.79
100	5500	13.33
116	5580	13.44
140	5700	13.39
149	5745	13.32
157	5785	13.40
165	5825	13.33
169	5845	13.41
173	5865	13.28
177	5885	13.31

MIMO

802.11n HT20		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS 0
36	5180	12.84
44	5220	12.80
48	5240	12.89
52	5260	13.28
60	5300	13.45
64	5320	13.47
100	5500	14.38
116	5580	14.43
140	5700	14.27
144	5720	14.22
149	5745	14.96
157	5785	14.78
165	5825	14.94
169	5845	14.82
173	5865	14.91
177	5885	14.82

802.11n HT20		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS 0
36	5180	12.86
44	5220	12.77
48	5240	12.90
52	5260	12.84
60	5300	12.90
64	5320	12.97
100	5500	13.31
116	5580	13.38
140	5700	13.29
144	5720	13.21
149	5745	13.46
157	5785	13.33
165	5825	13.39
169	5845	13.29
173	5865	13.33
177	5885	13.41

802.11 n(20M)		Average Power Output(dBm)	Average Power + factor(dBm)	
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)	
CH	Frequency (MHz)	MCS 8		Ch 0+1
		Ch0	Ch1	
36	5180	12.18	12.11	15.16
44	5220	11.98	12.25	15.13
48	5240	12.25	12.31	15.29
52	5260	13.12	12.77	15.96
60	5300	13.34	12.69	16.04
64	5320	13.32	12.89	16.12
100	5500	14.29	13.24	16.81
116	5580	14.31	13.23	16.81
140	5700	14.20	13.20	16.74
144	5720	14.05	13.11	16.62
149	5745	14.74	13.39	17.13
157	5785	14.57	13.23	16.96
165	5825	14.77	13.20	17.07
169	5845	14.74	13.20	17.05
173	5865	14.81	13.25	17.11
177	5885	14.77	13.38	17.14

802.11n HT40		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS 0
38	5190	12.83
46	5230	12.83
54	5270	13.29
62	5310	13.31
102	5510	14.42
110	5550	14.35
134	5670	14.39
142	5710	14.34
151	5755	14.90
159	5795	14.88
167	5835	14.78
175	5875	14.83

802.11n HT40		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS 0
38	5190	12.82
46	5230	12.80
54	5270	12.80
62	5310	12.85
102	5510	13.28
110	5550	13.46
134	5670	13.41
142	5710	13.40
151	5755	13.36
159	5795	13.39
167	5835	13.36
175	5875	13.38

802.11 n(40M)		Average Power Output(dBm)	Average Power + factor(dBm)	
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)	
CH	Frequency (MHz)	MCS 8		Ch 0+1
		Ch0	Ch1	
38	5190	12.63	12.75	15.70
46	5230	12.69	12.75	15.73
54	5270	13.24	12.74	16.01
62	5310	13.25	12.65	15.97
102	5510	14.28	13.21	16.79
110	5550	14.25	13.38	16.85
134	5670	14.27	13.33	16.84
142	5710	14.20	13.24	16.76
151	5755	14.85	13.24	17.13
159	5795	14.73	13.21	17.05
167	5835	14.75	13.27	17.08
175	5875	14.80	13.35	17.15

802.11ac VHT80		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS0
		42
58	5290	13.49
106	5530	14.48
122	5610	14.43
138	5690	14.47
155	5775	15
171	5855	14.83

802.11ac VHT80		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	MCS0
		42
58	5290	12.94
106	5530	13.48
122	5610	13.48
138	5690	13.50
155	5775	13.46
171	5855	13.44

802.11ac VHT80		Average Power Output(dBm)	Average Power + factor(dBm)	
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)	
CH	Frequency (MHz)	MCS0		Ch 0+1
		Ch0	Ch1	
42	5210	12.77	12.59	15.69
58	5290	13.39	12.89	16.16
106	5530	12.92	12.75	15.85
122	5610	14.22	13.21	16.75
138	5690	14.29	13.26	16.82
155	5775	14.80	13.36	17.15
171	5855	14.75	13.34	17.11

802.11ac VHT160		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	VHT0
		50
114	5570	14.50
163	5815	14.41

802.11ac VHT160		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		Data Rate (Mbps)
CH	Frequency (MHz)	VHT0
		50
114	5570	13.50
163	5815	13.41

802.11ac VHT160		Average Power Output(dBm)	Average Power + factor(dBm)	
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)	
CH	Frequency (MHz)	MCS0		Ch 0+1
		Ch0	Ch1	
50	5250	12.78	12.76	15.78
114	5570	14.37	13.42	16.93
163	5815	14.29	13.33	16.85

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802.11ax 20		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
36	5180	12.92
44	5220	12.83
48	5240	12.88
52	5260	13.34
60	5300	13.46
64	5320	13.46
100	5500	14.28
116	5580	14.38
140	5700	14.39
144	5720	14.27
149	5745	14.92
157	5785	14.96
165	5825	14.89
169	5845	14.77
173	5865	14.85
177	5885	14.90

802.11ax 20		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
36	5180	12.85
44	5220	12.77
48	5240	12.82
52	5260	12.91
60	5300	12.80
64	5320	12.79
100	5500	13.28
116	5580	13.41
140	5700	13.45
144	5720	13.38
149	5745	13.33
157	5785	13.42
165	5825	13.38
169	5845	13.35
173	5865	13.38
177	5885	13.41

802.11ax 20		Average Power Output (dBm)	Average Power + factor (dBm)
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)
CH	Frequency (MHz)	MCS0	
36	5180	12.17	12.29
44	5220	12.25	12.14
48	5240	12.37	12.25
52	5260	13.20	12.80
60	5300	13.31	12.58
64	5320	13.31	12.58
100	5500	14.10	13.16
116	5580	14.33	13.23
140	5700	14.17	13.32
144	5720	14.15	13.27
149	5745	14.72	13.18
157	5785	14.93	13.32
165	5825	14.79	13.35
169	5845	14.66	13.27
173	5865	14.83	13.28
177	5885	14.78	13.33

802.11ax 40		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
38	5190	12.98
46	5230	12.93
54	5270	13.34
62	5310	13.45
102	5510	14.31
110	5550	14.43
134	5670	14.45
142	5710	14.44
151	5755	14.94
159	5795	14.79
167	5835	14.78
175	5875	14.82

802.11ax 40		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
38	5190	12.93
46	5230	12.82
54	5270	12.81
62	5310	12.78
102	5510	13.33
110	5550	13.42
134	5670	13.39
142	5710	13.32
151	5755	13.39
159	5795	13.38
167	5835	13.35
175	5875	13.33

802.11ax 40		Average Power Output (dBm)	Average Power + factor (dBm)
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)
CH	Frequency (MHz)	MCS0	
38	5190	12.83	12.76
46	5230	12.72	12.76
54	5270	13.23	12.61
62	5310	13.29	12.69
102	5510	14.15	13.22
110	5550	14.21	13.29
134	5670	14.23	13.23
142	5710	14.34	13.20
151	5755	14.79	13.32
159	5795	14.68	13.24
167	5835	14.74	13.31
175	5875	14.74	13.25

802.11ax 80		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
42	5210	12.94
58	5290	13.40
106	5530	14.29
122	5610	14.27
138	5690	14.36
155	5775	14.90
171	5855	14.87

802.11ax 80		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
42	5210	12.87
58	5290	12.83
106	5530	13.43
122	5610	13.39
138	5690	13.30
155	5775	13.39
171	5855	13.33

802.11ax 80		Average Power Output (dBm)	Average Power + factor (dBm)
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)
CH	Frequency (MHz)	MCS0	
42	5210	12.77	12.74
58	5290	13.19	12.75
106	5530	12.64	12.48
122	5610	14.15	13.29
138	5690	14.32	13.23
155	5775	14.85	13.35
171	5855	14.82	13.27

802.11ax 160		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
50	5250	12.86
114	5570	14.22
163	5815	12.89

802.11ax 160		Average Power Output (dBm)
5.2G/5.5G/5.8G/5.9G		
CH	Frequency (MHz)	Data Rate (Mbps)
50	5250	12.96
114	5570	13.18
163	5815	13.35

802.11ax 160		Average Power Output (dBm)	Average Power + factor (dBm)
5.2/5.3/5.6/5.8G		Data Rate (Mbps)	Data Rate (Mbps)
CH	Frequency (MHz)	MCS0	
50	5250	12.73	12.93
114	5570	14.11	13.12
163	5815	12.85	13.31

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WLAN MIMO						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	4.59	
		45	6175		4.61	
		93	6415		4.66	
	802.11ax40-HE0	3	5985	MCS0	7.46	
		43	6165		7.38	
		91	6405		7.28	
	802.11ax80-HE0	7	5985	MCS0	9.99	
		39	6145		9.85	
		87	6385		10.01	
	802.11ax160-HE0	15	6025	MCS0	12.71	
		79	6345		13.07	
	U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	4.74
105			6475	4.56		
113			6515	4.61		
802.11ax40-HE0		99	6445	MCS0	7.81	
		107	6485		7.85	
802.11ax80-HE0		103	6465	MCS0	10.13	
		119	6545		10.07	
802.11ax160-HE0		111	6505	MCS0	12.86	
U-NII-7 6.7GHz		802.11ax20-HE0	117	6535	MCS0	4.43
			149	6695		4.78
	181		6855	4.60		
	802.11ax40-HE0	115	6525	MCS0	7.91	
		147	6685		7.67	
		179	6845		7.50	
	802.11ax80-HE0	135	6625	MCS0	10.00	
		167	6785		10.05	
	802.11ax160-HE0	143	6665	MCS0	12.83	
	802.11ax20-HE0	185	6875	MCS0	4.43	
209		6995	4.87			
233		7115	1.13			
802.11ax40-HE0	187	6885	MCS0	7.63		
	227	7085		7.74		
802.11ax80-HE0	183	6865	MCS0	9.88		
	199	6945		10.17		
	215	7025		10.13		
802.11ax160-HE0	207	6985	MCS0	12.68		

- End of report -

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