



## **Annex A**

### **Power and Power Spectral Density Results**

**U-NII-2A 5250-5350 MHz**

**U-NII-2C 5470-5725 MHz**



## Unii 2A

### 4 dBi Omni antenna

#### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	18.8	24	-5.2
10	ac	5300	vt0	18	19.6	24	-4.5
10	ac	5340	vt0	10	6.7	24	-17.3
20	ac	5260	vt0	23	20.9	24	-3.1
20	ac	5300	vt0	23	21.6	24	-2.4
20	ac	5335	vt0	10	6.6	24	-17.5
30	ac	5265	vt0	23	21.0	24	-3.0
30	ac	5300	vt0	18	19.5	24	-4.6
30	ac	5330	vt0	2	3.4	24	-20.6
40	ac	5270	vf0	22	20.5	24	-3.5
40	ac	5300	vf0	18	17.8	24	-6.2
40	ac	5325	vfo	3	3.9	24	-20.1
50	ac	5275	vf0	19	18.5	24	-5.5
50	ac	5300	vf0	16	16.1	24	-7.9
50	ac	5320	vfo	2	2.8	24	-21.2
60	ac	5280	vf0	17	17.7	24	-6.3
60	ac	5300	vf0	13	13.2	24	-10.8
60	ac	5315	vfo	3	3.8	24	-20.2
80	ac	5290	ve	13	13.7	24	-10.3
80	ac	5300	ve	9	8.7	24	-15.3
80	ac	5305	ve	4	4.0	24	-20.0



**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	10.1	11	-0.9
10	ac	5300	vt0	18	10.9	11	-0.1
10	ac	5340	vt0	10	-1.8	11	-12.8
20	ac	5260	vt0	23	8.0	11	-3.0
20	ac	5300	vt0	23	10.3	11	-0.7
20	ac	5335	vt0	10	-4.6	11	-15.6
30	ac	5265	vt0	23	8.1	11	-2.9
30	ac	5300	vt0	18	6.5	11	-4.5
30	ac	5330	vt0	2	-9.6	11	-20.6
40	ac	5270	vf0	22	6.4	11	-4.6
40	ac	5300	vf0	18	3.6	11	-7.4
40	ac	5325	vfo	3	-10.2	11	-21.2
50	ac	5275	vf0	19	3.2	11	-7.8
50	ac	5300	vf0	16	0.9	11	-10.1
50	ac	5320	vfo	2	-12.4	11	-23.4
60	ac	5280	vf0	17	1.9	11	-9.1
60	ac	5300	vf0	13	-2.5	11	-13.5
60	ac	5315	vfo	3	-12.1	11	-23.1
80	ac	5290	ve	13	-3.6	11	-14.6
80	ac	5300	ve	9	-8.5	11	-19.5
80	ac	5305	ve	4	-13.3	11	-24.3



## 13 dBi Omni antenna

### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	11.82	17	-5.2
10	ac	5300	vt0	18	12.55	17	-4.5
10	ac	5340	vt0	10	-0.27	17	-17.3
20	ac	5260	vt0	23	13.9	17	-3.1
20	ac	5300	vt0	23	14.6	17	-2.4
20	ac	5335	vt0	10	-0.45	17	-17.5
30	ac	5265	vt0	23	14.02	17	-3.0
30	ac	5300	vt0	18	12.45	17	-4.6
30	ac	5330	vt0	2	-3.62	17	-20.6
40	ac	5270	vf0	22	13.52	17	-3.5
40	ac	5300	vf0	18	10.78	17	-6.2
40	ac	5325	vfo	3	-3.12	17	-20.1
50	ac	5275	vf0	19	11.46	17	-5.5
50	ac	5300	vf0	16	9.08	17	-7.9
50	ac	5320	vfo	2	-4.24	17	-21.2
60	ac	5280	vf0	17	10.66	17	-6.3
60	ac	5300	vf0	13	6.21	17	-10.8
60	ac	5315	vfo	3	-3.23	17	-20.2
80	ac	5290	ve	13	6.68	17	-10.3
80	ac	5300	ve	9	1.69	17	-15.3
80	ac	5305	ve	4	-3.01	17	-20.0



**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	3.13	4	-0.9
10	ac	5300	vt0	18	3.87	4	-0.1
10	ac	5340	vt0	10	-8.8	4	-12.8
20	ac	5260	vt0	23	0.98	4	-3.0
20	ac	5300	vt0	23	3.32	4	-0.7
20	ac	5335	vt0	10	-11.64	4	-15.6
30	ac	5265	vt0	23	1.1	4	-2.9
30	ac	5300	vt0	18	-0.47	4	-4.5
30	ac	5330	vt0	2	-16.62	4	-20.6
40	ac	5270	vf0	22	-0.63	4	-4.6
40	ac	5300	vf0	18	-3.38	4	-7.4
40	ac	5325	vfo	3	-17.22	4	-21.2
50	ac	5275	vf0	19	-3.8	4	-7.8
50	ac	5300	vf0	16	-6.11	4	-10.1
50	ac	5320	vfo	2	-19.35	4	-23.4
60	ac	5280	vf0	17	-5.1	4	-9.1
60	ac	5300	vf0	13	-9.53	4	-13.5
60	ac	5315	vfo	3	-19.11	4	-23.1
80	ac	5290	ve	13	-10.64	4	-14.6
80	ac	5300	ve	9	-15.47	4	-19.5
80	ac	5305	ve	4	-20.34	4	-24.3



## 22 dBi Sector antenna

### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	2.82	8	-5.2
10	ac	5300	vt0	18	3.55	8	-4.5
10	ac	5340	vt0	10	-9.27	8	-17.3
20	ac	5260	vt0	23	4.9	8	-3.1
20	ac	5300	vt0	23	5.6	8	-2.4
20	ac	5335	vt0	10	-9.45	8	-17.5
30	ac	5265	vt0	23	5.02	8	-3.0
30	ac	5300	vt0	18	3.45	8	-4.6
30	ac	5330	vt0	2	-12.62	8	-20.6
40	ac	5270	vf0	22	4.52	8	-3.5
40	ac	5300	vf0	18	1.78	8	-6.2
40	ac	5325	vfo	3	-12.12	8	-20.1
50	ac	5275	vf0	19	2.46	8	-5.5
50	ac	5300	vf0	16	0.08	8	-7.9
50	ac	5320	vfo	2	-13.24	8	-21.2
60	ac	5280	vf0	17	1.66	8	-6.3
60	ac	5300	vf0	13	-2.79	8	-10.8
60	ac	5315	vfo	3	-12.23	8	-20.2
80	ac	5290	ve	13	-2.32	8	-10.3
80	ac	5300	ve	9	-7.31	8	-15.3
80	ac	5305	ve	4	-12.01	8	-20.0



**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	-5.87	-5	-0.9
10	ac	5300	vt0	18	-5.13	-5	-0.1
10	ac	5340	vt0	10	-17.8	-5	-12.8
20	ac	5260	vt0	23	-8.02	-5	-3.0
20	ac	5300	vt0	23	-5.68	-5	-0.7
20	ac	5335	vt0	10	-20.64	-5	-15.6
30	ac	5265	vt0	23	-7.9	-5	-2.9
30	ac	5300	vt0	18	-9.47	-5	-4.5
30	ac	5330	vt0	2	-25.62	-5	-20.6
40	ac	5270	vf0	22	-9.63	-5	-4.6
40	ac	5300	vf0	18	-12.38	-5	-7.4
40	ac	5325	vfo	3	-26.22	-5	-21.2
50	ac	5275	vf0	19	-12.8	-5	-7.8
50	ac	5300	vf0	16	-15.11	-5	-10.1
50	ac	5320	vfo	2	-28.35	-5	-23.4
60	ac	5280	vf0	17	-14.1	-5	-9.1
60	ac	5300	vf0	13	-18.53	-5	-13.5
60	ac	5315	vfo	3	-28.11	-5	-23.1
80	ac	5290	ve	13	-19.64	-5	-14.6
80	ac	5300	ve	9	-24.47	-5	-19.5
80	ac	5305	ve	4	-29.34	-5	-24.3



### 34 dBi Dish antenna

#### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	-11.18	-4	-7.2
10	ac	5300	vt0	18	-10.45	-4	-6.5
10	ac	5340	vt0	10	-23.27	-4	-19.3
20	ac	5260	vt0	23	-9.1	-4	-5.1
20	ac	5300	vt0	23	-8.4	-4	-4.4
20	ac	5335	vt0	10	-23.45	-4	-19.5
30	ac	5265	vt0	23	-8.98	-4	-5.0
30	ac	5300	vt0	18	-10.55	-4	-6.6
30	ac	5330	vt0	2	-26.62	-4	-22.6
40	ac	5270	vf0	22	-9.48	-4	-5.5
40	ac	5300	vf0	18	-12.22	-4	-8.2
40	ac	5325	vfo	3	-26.12	-4	-22.1
50	ac	5275	vf0	19	-11.54	-4	-7.5
50	ac	5300	vf0	16	-13.92	-4	-9.9
50	ac	5320	vfo	2	-27.24	-4	-23.2
60	ac	5280	vf0	17	-12.34	-4	-8.3
60	ac	5300	vf0	13	-16.79	-4	-12.8
60	ac	5315	vfo	3	-26.23	-4	-22.2
80	ac	5290	ve	13	-16.32	-4	-12.3
80	ac	5300	ve	9	-21.31	-4	-17.3
80	ac	5205	ve	4	-26.01	-4	-22.0





**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5255	vt0	19	-19.87	-17	-2.9
10	ac	5300	vt0	18	-19.13	-17	-2.1
10	ac	5340	vt0	10	-31.8	-17	-14.8
20	ac	5260	vt0	23	-22.02	-17	-5.0
20	ac	5300	vt0	23	-19.68	-17	-2.7
20	ac	5335	vt0	10	-34.64	-17	-17.6
30	ac	5265	vt0	23	-21.9	-17	-4.9
30	ac	5300	vt0	18	-23.47	-17	-6.5
30	ac	5330	vt0	2	-39.62	-17	-22.6
40	ac	5270	vf0	22	-23.63	-17	-6.6
40	ac	5300	vf0	18	-26.38	-17	-9.4
40	ac	5325	vfo	3	-40.22	-17	-23.2
50	ac	5275	vf0	19	-26.8	-17	-9.8
50	ac	5300	vf0	16	-29.11	-17	-12.1
50	ac	5320	vfo	2	-42.35	-17	-25.4
60	ac	5280	vf0	17	-28.1	-17	-11.1
60	ac	5300	vf0	13	-32.53	-17	-15.5
60	ac	5315	vfo	3	-42.11	-17	-25.1
80	ac	5290	ve	13	-33.64	-17	-16.6
80	ac	5300	ve	9	-38.47	-17	-21.5
80	ac	5205	ve	4	-43.34	-17	-26.3



## Unii 2C

### 4 dBi Omni antenna

#### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	18.0	24	-6.0
10	ac	5600	vt0	18	19.6	24	-4.4
10	ac	5715	vt0	18	18.4	24	-5.6
20	ac	5485	vt0	16	16.7	24	-7.4
20	ac	5600	vt0	24	22.2	24	-1.8
20	ac	5710	vt0	18	18.4	24	-5.6
30	ac	5490	vt0	14	13.5	24	-10.5
30	ac	5600	vt0	24	22.1	24	-1.9
30	ac	5705	vt0	17	17.7	24	-6.4
40	ac	5495	vf0	14	18.7	24	-5.3
40	ac	5600	vf0	24	21.6	24	-2.4
40	ac	5700	vfo	22	20.8	24	-3.3
50	ac	5500	vf0	14	18.9	24	-5.2
50	ac	5600	vf0	24	21.7	24	-2.3
50	ac	5695	vfo	20	19.5	24	-4.5
60	ac	5505	vf0	13	12.5	24	-11.6
60	ac	5600	vf0	24	21.6	24	-2.4
60	ac	5690	vfo	20	19.3	24	-4.7
80	ac	5515	ve	13	12.0	24	-12.1
80	ac	5600	ve	20	18.6	24	-5.4
80	ac	5680	ve	20	18.9	24	-5.1



**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	9.4	11	-1.6
10	ac	5600	vt0	18	10.5	11	-0.5
10	ac	5715	vt0	18	9.8	11	-1.3
20	ac	5485	vt0	16	5.7	11	-5.3
20	ac	5600	vt0	24	10.9	11	-0.1
20	ac	5710	vt0	18	7.0	11	-4.0
30	ac	5490	vt0	14	2.2	11	-8.8
30	ac	5600	vt0	24	9.1	11	-1.9
30	ac	5705	vt0	17	4.8	11	-6.2
40	ac	5495	vf0	14	-1.2	11	-12.2
40	ac	5600	vf0	24	7.3	11	-3.7
40	ac	5700	vfo	22	6.5	11	-4.5
50	ac	5500	vf0	14	-1.8	11	-12.8
50	ac	5600	vf0	24	6.3	11	-4.7
50	ac	5695	vfo	20	4.5	11	-6.5
60	ac	5505	vf0	13	1.1	11	-9.9
60	ac	5600	vf0	24	5.8	11	-5.3
60	ac	5690	vfo	20	3.5	11	-7.5
80	ac	5515	ve	13	-6.2	11	-17.2
80	ac	5600	ve	20	1.5	11	-9.5
80	ac	5680	ve	20	1.8	11	-17.2



## 13 dBi Omni antenna

### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	11.02	17	-6.0
10	ac	5600	vt0	18	12.6	17	-4.4
10	ac	5715	vt0	18	11.38	17	-5.6
20	ac	5485	vt0	16	9.65	17	-7.4
20	ac	5600	vt0	24	15.2	17	-1.8
20	ac	5710	vt0	18	11.42	17	-5.6
30	ac	5490	vt0	14	6.53	17	-10.5
30	ac	5600	vt0	24	15.07	17	-1.9
30	ac	5705	vt0	17	10.65	17	-6.4
40	ac	5495	vf0	14	11.71	17	-5.3
40	ac	5600	vf0	24	14.58	17	-2.4
40	ac	5700	vfo	22	13.75	17	-3.3
50	ac	5500	vf0	14	11.85	17	-5.2
50	ac	5600	vf0	24	14.71	17	-2.3
50	ac	5695	vfo	20	12.51	17	-4.5
60	ac	5505	vf0	13	5.45	17	-11.6
60	ac	5600	vf0	24	14.57	17	-2.4
60	ac	5690	vfo	20	12.26	17	-4.7
80	ac	5515	ve	13	4.95	17	-12.1
80	ac	5600	ve	20	11.61	17	-5.4
80	ac	5680	ve	20	11.93	17	-5.1



**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	2.42	4	-1.6
10	ac	5600	vt0	18	3.5	4	-0.5
10	ac	5715	vt0	18	2.75	4	-1.3
20	ac	5485	vt0	16	-1.26	4	-5.3
20	ac	5600	vt0	24	3.87	4	-0.1
20	ac	5710	vt0	18	-0.04	4	-4.0
30	ac	5490	vt0	14	-4.82	4	-8.8
30	ac	5600	vt0	24	2.1	4	-1.9
30	ac	5705	vt0	17	-2.2	4	-6.2
40	ac	5495	vf0	14	-8.2	4	-12.2
40	ac	5600	vf0	24	0.31	4	-3.7
40	ac	5700	vfo	22	-0.47	4	-4.5
50	ac	5500	vf0	14	-8.8	4	-12.8
50	ac	5600	vf0	24	-0.68	4	-4.7
50	ac	5695	vfo	20	-2.46	4	-6.5
60	ac	5505	vf0	13	-5.9	4	-9.9
60	ac	5600	vf0	24	-1.25	4	-5.3
60	ac	5690	vfo	20	-3.48	4	-7.5
80	ac	5515	ve	13	-13.2	4	-17.2
80	ac	5600	ve	20	-5.53	4	-9.5
80	ac	5680	ve	20	-5.22	4	-17.2



## 22 dBi Omni antenna

### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	2.02	8	-6.0
10	ac	5600	vt0	18	3.6	8	-4.4
10	ac	5715	vt0	18	2.38	8	-5.6
20	ac	5485	vt0	16	0.65	8	-7.4
20	ac	5600	vt0	24	6.2	8	-1.8
20	ac	5710	vt0	18	2.42	8	-5.6
30	ac	5490	vt0	14	-2.47	8	-10.5
30	ac	5600	vt0	24	6.07	8	-1.9
30	ac	5705	vt0	17	1.65	8	-6.4
40	ac	5495	vf0	14	2.71	8	-5.3
40	ac	5600	vf0	24	5.58	8	-2.4
40	ac	5700	vfo	22	4.75	8	-3.3
50	ac	5500	vf0	14	2.85	8	-5.2
50	ac	5600	vf0	24	5.71	8	-2.3
50	ac	5695	vfo	20	3.51	8	-4.5
60	ac	5505	vf0	13	-3.55	8	-11.6
60	ac	5600	vf0	24	5.57	8	-2.4
60	ac	5690	vfo	20	3.26	8	-4.7
80	ac	5515	ve	13	-4.05	8	-12.1
80	ac	5600	ve	20	2.61	8	-5.4
80	ac	5680	ve	20	2.93	8	-5.1



### Conducted Power Spectral Density

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	-6.58	-5	-1.6
10	ac	5600	vt0	18	-5.5	-5	-0.5
10	ac	5715	vt0	18	-6.25	-5	-1.3
20	ac	5485	vt0	16	-10.26	-5	-5.3
20	ac	5600	vt0	24	-5.13	-5	-0.1
20	ac	5710	vt0	18	-9.04	-5	-4.0
30	ac	5490	vt0	14	-13.82	-5	-8.8
30	ac	5600	vt0	24	-6.9	-5	-1.9
30	ac	5705	vt0	17	-11.2	-5	-6.2
40	ac	5495	vf0	14	-17.2	-5	-12.2
40	ac	5600	vf0	24	-8.69	-5	-3.7
40	ac	5700	vfo	22	-9.47	-5	-4.5
50	ac	5500	vf0	14	-17.8	-5	-12.8
50	ac	5600	vf0	24	-9.68	-5	-4.7
50	ac	5695	vfo	20	-11.46	-5	-6.5
60	ac	5505	vf0	13	-14.9	-5	-9.9
60	ac	5600	vf0	24	-10.25	-5	-5.3
60	ac	5690	vfo	20	-12.48	-5	-7.5
80	ac	5515	ve	13	-22.2	-5	-17.2
80	ac	5600	ve	20	-14.53	-5	-9.5
80	ac	5680	ve	20	-14.22	-5	-17.2



## 34 dBi Dish antenna

### Conducted Power

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	-12	-4	-8.0
10	ac	5600	vt0	18	-10.4	-4	-6.4
10	ac	5715	vt0	18	-11.6	-4	-7.6
20	ac	5485	vt0	16	-13.4	-4	-9.4
20	ac	5600	vt0	24	-7.8	-4	-3.8
20	ac	5710	vt0	18	-11.6	-4	-7.6
30	ac	5490	vt0	14	-16.5	-4	-12.5
30	ac	5600	vt0	24	-7.93	-4	-3.9
30	ac	5705	vt0	17	-12.4	-4	-8.4
40	ac	5495	vf0	14	-11.3	-4	-7.3
40	ac	5600	vf0	24	-8.42	-4	-4.4
40	ac	5700	vfo	22	-9.25	-4	-5.3
50	ac	5500	vf0	14	-11.2	-4	-7.2
50	ac	5600	vf0	24	-8.29	-4	-4.3
50	ac	5695	vfo	20	-10.5	-4	-6.5
60	ac	5505	vf0	13	-17.6	-4	-13.6
60	ac	5600	vf0	24	-8.43	-4	-4.4
60	ac	5690	vfo	20	-10.7	-4	-6.7
80	ac	5515	ve	13	-18.1	-4	-14.1
80	ac	5600	ve	20	-11.4	-4	-7.4
80	ac	5680	ve	20	-11.1	-4	-7.1





**Conducted Power Spectral Density**

Band Width	Mode	Frequency	Data Rate	TP	Port 1	Limit	Margin
MHz	ac	MHz			dBm	dBm	dB
10	ac	5480	vt0	17	-20.58	-17	-3.6
10	ac	5600	vt0	18	-19.5	-17	-2.5
10	ac	5715	vt0	18	-20.25	-17	-3.3
20	ac	5485	vt0	16	-24.26	-17	-7.3
20	ac	5600	vt0	24	-19.13	-17	-2.1
20	ac	5710	vt0	18	-23.04	-17	-6.0
30	ac	5490	vt0	14	-27.82	-17	-10.8
30	ac	5600	vt0	24	-20.9	-17	-3.9
30	ac	5705	vt0	17	-25.2	-17	-8.2
40	ac	5495	vf0	14	-31.2	-17	-14.2
40	ac	5600	vf0	24	-22.69	-17	-5.7
40	ac	5700	vfo	22	-23.47	-17	-6.5
50	ac	5500	vf0	14	-31.8	-17	-14.8
50	ac	5600	vf0	24	-23.68	-17	-6.7
50	ac	5695	vfo	20	-25.46	-17	-8.5
60	ac	5505	vf0	13	-28.9	-17	-11.9
60	ac	5600	vf0	24	-24.25	-17	-7.3
60	ac	5690	vfo	20	-26.48	-17	-9.5
80	ac	5515	ve	13	-36.2	-17	-19.2
80	ac	5600	ve	20	-28.53	-17	-11.5
80	ac	5680	ve	20	-28.22	-17	-19.2