

A.4 MAXIMUM PEAK OUTPUT POWER

| | | | |
|--------------|--------------------------------|------------|----------------|
| Test Date | 2020/09/28~29 | Temp./Hum. | 23~24°C/51~52% |
| Cable Loss | 0.60dB | Tested By | Brian Hsieh |
| Test Voltage | AC 120V, 60Hz (via AC Adapter) | | |

A.4.1 Peak Output Power

Test SKU #1 [with AWAN Antenna]

| 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 | 22.43 | 22.01 | 22.43 | 0.175 | 0.66 | 23.09 | 0.204 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 23.41 | 23.46 | 23.46 | 0.222 | | 24.12 | 0.258 | |
| | 2462 | 21.81 | 22.00 | 22.00 | 0.158 | | 22.66 | 0.185 | |
| | 2467 | 20.52 | 19.47 | 20.52 | 0.113 | | 21.18 | 0.131 | |
| | 2472 | 17.85 | 17.41 | 17.85 | 0.061 | | 18.51 | 0.071 | |

| 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 | 21.93 | 21.99 | 21.99 | 0.158 | 0.66 | 22.65 | 0.184 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 24.24 | 24.19 | 24.24 | 0.265 | | 24.90 | 0.309 | |
| | 2462 | 20.31 | 20.03 | 20.31 | 0.107 | | 20.97 | 0.125 | |
| | 2467 | 18.54 | 18.42 | 18.54 | 0.071 | | 19.20 | 0.083 | |
| | 2472 | 21.57 | 21.45 | 21.57 | 0.144 | | 22.23 | 0.167 | |

| 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 | 20.66 | 20.62 | 23.65 | 0.232 | 0.66 | 24.31 | 0.270 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 23.24 | 23.48 | 26.37 | 0.434 | | 27.03 | 0.505 | |
| | 2462 | 19.44 | 19.50 | 22.48 | 0.177 | | 23.14 | 0.206 | |
| | 2467 | 17.32 | 17.56 | 20.45 | 0.111 | | 21.11 | 0.129 | |
| | 2472 | 18.88 | 17.82 | 21.39 | 0.138 | | 22.05 | 0.160 | |

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-HT40 | 2422 | 20.41 | 19.23 | 22.87 | 0.194 | 0.66 | 23.53 | 0.225 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.57 | 19.98 | 23.30 | 0.214 | | 23.96 | 0.249 | |
| | 2452 | 20.21 | 20.49 | 23.36 | 0.217 | | 24.02 | 0.252 | |
| | 2457 | 13.38 | 13.46 | 16.43 | 0.044 | | 17.09 | 0.051 | |
| | 2462 | 20.30 | 20.34 | 23.33 | 0.215 | | 23.99 | 0.251 | |

| 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 | 21.00 | 20.97 | 24.00 | 0.251 | 0.66 | 24.66 | 0.292 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 21.57 | 21.92 | 24.76 | 0.299 | | 25.42 | 0.348 | |
| | 2462 | 19.44 | 19.52 | 22.49 | 0.177 | | 23.15 | 0.207 | |
| | 2467 | 17.18 | 15.85 | 19.58 | 0.091 | | 20.24 | 0.106 | |
| | 2472 | 19.11 | 19.14 | 22.14 | 0.164 | | 22.80 | 0.191 | |

| 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 | 21.51 | 19.55 | 23.65 | 0.232 | 0.66 | 24.31 | 0.270 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.66 | 20.41 | 23.55 | 0.226 | | 24.21 | 0.264 | |
| | 2452 | 20.05 | 20.23 | 23.15 | 0.207 | | 23.81 | 0.240 | |
| | 2457 | 12.95 | 13.19 | 16.08 | 0.041 | | 16.74 | 0.047 | |
| | 2462 | 19.97 | 22.11 | 24.18 | 0.262 | | 24.84 | 0.305 | |

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 | 22.02 | 21.95 | 25.00 | 0.316 | 0.66 | 25.66 | 0.368 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 52/37 | | 21.08 | 21.23 | 24.17 | 0.261 | | 24.83 | 0.304 | |
| | 106/53 | | 20.55 | 20.42 | 23.50 | 0.224 | | 24.16 | 0.261 | |
| | 26/8 | 2472 | 13.84 | 14.03 | 16.95 | 0.050 | | 17.61 | 0.058 | |
| | 52/40 | | 16.29 | 15.74 | 19.03 | 0.080 | | 19.69 | 0.093 | |
| | 106/54 | | 18.87 | 18.92 | 21.91 | 0.155 | | 22.57 | 0.181 | |

| 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 | 20.95 | 19.71 | 23.38 | 0.218 | 0.66 | 24.04 | 0.254 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 242/62 | 2467 | 20.74 | 20.04 | 23.41 | 0.219 | | 24.07 | 0.255 | |

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) | |
| BLE (1M) | 2402 | 7.76 | --- | 7.76 | 0.0060 | -0.15 | 7.61 | 0.0058 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2440 | 7.85 | --- | 7.85 | 0.0061 | | 7.70 | 0.0059 | |
| | 2480 | 7.93 | --- | 7.93 | 0.0062 | | 7.78 | 0.0060 | |
| BLE (2M) | 2402 | 7.75 | --- | 7.75 | 0.0060 | | 7.60 | 0.0058 | |
| | 2440 | 7.87 | --- | 7.87 | 0.0061 | | 7.72 | 0.0059 | |
| | 2480 | 7.94 | --- | 7.94 | 0.0062 | | 7.79 | 0.0060 | |
| BLE (PHY Coded S2) | 2402 | 7.74 | --- | 7.74 | 0.0059 | | 7.59 | 0.0057 | |
| | 2440 | 7.84 | --- | 7.84 | 0.0061 | | 7.69 | 0.0059 | |
| | 2480 | 7.92 | --- | 7.92 | 0.0062 | | 7.77 | 0.0060 | |
| BLE (PHY Coded S8) | 2402 | 7.73 | --- | 7.73 | 0.0059 | | 7.58 | 0.0057 | |
| | 2440 | 7.83 | --- | 7.83 | 0.0061 | | 7.68 | 0.0059 | |
| | 2480 | 7.91 | --- | 7.91 | 0.0062 | | 7.76 | 0.0060 | |

Note: The results have been included cable loss.

Test SKU #2 [with Speed Antenna]

| 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 | 22.43 | 22.01 | 22.43 | 0.175 | 1.60 | 24.03 | 0.253 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 23.41 | 23.46 | 23.46 | 0.222 | | 25.06 | 0.321 | |
| | 2462 | 21.81 | 22.00 | 22.00 | 0.158 | | 23.60 | 0.229 | |
| | 2467 | 20.52 | 19.47 | 20.52 | 0.113 | | 22.12 | 0.163 | |
| | 2472 | 17.85 | 17.41 | 17.85 | 0.061 | | 19.45 | 0.088 | |

| 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 | 21.93 | 21.99 | 21.99 | 0.158 | 1.60 | 23.59 | 0.229 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 24.24 | 24.19 | 24.24 | 0.265 | | 25.84 | 0.384 | |
| | 2462 | 20.31 | 20.03 | 20.31 | 0.107 | | 21.91 | 0.155 | |
| | 2467 | 18.54 | 18.42 | 18.54 | 0.071 | | 20.14 | 0.103 | |
| | 2472 | 21.57 | 21.45 | 21.57 | 0.144 | | 23.17 | 0.207 | |

| 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 | 20.66 | 20.62 | 23.65 | 0.232 | 1.60 | 25.25 | 0.335 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 23.24 | 23.48 | 26.37 | 0.434 | | 27.97 | 0.627 | |
| | 2462 | 19.44 | 19.50 | 22.48 | 0.177 | | 24.08 | 0.256 | |
| | 2467 | 17.32 | 17.56 | 20.45 | 0.111 | | 22.05 | 0.160 | |
| | 2472 | 18.88 | 17.82 | 21.39 | 0.138 | | 22.99 | 0.199 | |

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-HT40 | 2422 | 20.41 | 19.23 | 22.87 | 0.194 | 1.60 | 24.47 | 0.280 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.57 | 19.98 | 23.30 | 0.214 | | 24.90 | 0.309 | |
| | 2452 | 20.21 | 20.49 | 23.36 | 0.217 | | 24.96 | 0.313 | |
| | 2457 | 13.38 | 13.46 | 16.43 | 0.044 | | 18.03 | 0.064 | |
| | 2462 | 20.30 | 20.34 | 23.33 | 0.215 | | 24.93 | 0.311 | |

| 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 | 21.00 | 20.97 | 24.00 | 0.251 | 1.60 | 25.60 | 0.363 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 21.57 | 21.92 | 24.76 | 0.299 | | 26.36 | 0.433 | |
| | 2462 | 19.44 | 19.52 | 22.49 | 0.177 | | 24.09 | 0.256 | |
| | 2467 | 17.18 | 15.85 | 19.58 | 0.091 | | 21.18 | 0.131 | |
| | 2472 | 19.11 | 19.14 | 22.14 | 0.164 | | 23.74 | 0.237 | |

| 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 | 21.51 | 19.55 | 23.65 | 0.232 | 1.60 | 25.25 | 0.335 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.66 | 20.41 | 23.55 | 0.226 | | 25.15 | 0.327 | |
| | 2452 | 20.05 | 20.23 | 23.15 | 0.207 | | 24.75 | 0.299 | |
| | 2457 | 12.95 | 13.19 | 16.08 | 0.041 | | 17.68 | 0.059 | |
| | 2462 | 19.97 | 22.11 | 24.18 | 0.262 | | 25.78 | 0.378 | |

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 | 22.02 | 21.95 | 25.00 | 0.316 | 1.60 | 26.60 | 0.457 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 52/37 | | 21.08 | 21.23 | 24.17 | 0.261 | | 25.77 | 0.378 | |
| | 106/53 | | 20.55 | 20.42 | 23.50 | 0.224 | | 25.10 | 0.324 | |
| | 26/8 | 2472 | 13.84 | 14.03 | 16.95 | 0.050 | | 18.55 | 0.072 | |
| | 52/40 | | 16.29 | 15.74 | 19.03 | 0.080 | | 20.63 | 0.116 | |
| | 106/54 | | 18.87 | 18.92 | 21.91 | 0.155 | | 23.51 | 0.224 | |

| 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 | 20.95 | 19.71 | 23.38 | 0.218 | 1.60 | 24.98 | 0.315 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 242/62 | 2467 | 20.74 | 20.04 | 23.41 | 0.219 | | 25.01 | 0.317 | |

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) | |
| BLE (1M) | 2402 | 7.76 | --- | 7.76 | 0.0060 | 1.51 | 9.27 | 0.0085 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2440 | 7.85 | --- | 7.85 | 0.0061 | | 9.36 | 0.0086 | |
| | 2480 | 7.93 | --- | 7.93 | 0.0062 | | 9.44 | 0.0088 | |
| BLE (2M) | 2402 | 7.75 | --- | 7.75 | 0.0060 | | 9.26 | 0.0084 | |
| | 2440 | 7.87 | --- | 7.87 | 0.0061 | | 9.38 | 0.0087 | |
| | 2480 | 7.94 | --- | 7.94 | 0.0062 | | 9.45 | 0.0088 | |
| BLE (PHY Coded S2) | 2402 | 7.74 | --- | 7.74 | 0.0059 | | 9.25 | 0.0084 | |
| | 2440 | 7.84 | --- | 7.84 | 0.0061 | | 9.35 | 0.0086 | |
| | 2480 | 7.92 | --- | 7.92 | 0.0062 | | 9.43 | 0.0088 | |
| BLE (PHY Coded S8) | 2402 | 7.73 | --- | 7.73 | 0.0059 | | 9.24 | 0.0084 | |
| | 2440 | 7.83 | --- | 7.83 | 0.0061 | | 9.34 | 0.0086 | |
| | 2480 | 7.91 | --- | 7.91 | 0.0062 | | 9.42 | 0.0087 | |

Note: The results have been included cable loss.

A.4.2 Average Output Power (Reporting only)

Test SKU #1 [with AWAN Antenna]

| 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 | 19.87 | 19.40 | 0 | 19.87 | 0.097 | 0.66 | 20.53 | 0.113 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 21.12 | 21.25 | | 21.25 | 0.133 | | 21.91 | 0.155 | |
| | 2462 | 19.22 | 19.37 | | 19.37 | 0.086 | | 20.03 | 0.101 | |
| | 2467 | 17.97 | 17.14 | | 17.97 | 0.063 | | 18.63 | 0.073 | |
| | 2472 | 15.19 | 14.74 | | 15.19 | 0.033 | | 15.85 | 0.038 | |

| 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 | 17.09 | 17.09 | 0 | 17.09 | 0.051 | 0.66 | 17.75 | 0.060 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.61 | 20.52 | | 20.61 | 0.115 | | 21.27 | 0.134 | |
| | 2462 | 15.27 | 15.04 | | 15.27 | 0.034 | | 15.93 | 0.039 | |
| | 2467 | 13.65 | 13.58 | | 13.65 | 0.023 | | 14.31 | 0.027 | |
| | 2472 | 11.81 | 11.74 | | 11.81 | 0.015 | | 12.47 | 0.018 | |

| 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 | 15.72 | 15.71 | 0 | 18.73 | 0.075 | 0.66 | 19.39 | 0.087 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 18.89 | 19.11 | | 22.01 | 0.159 | | 22.67 | 0.185 | |
| | 2462 | 14.37 | 14.41 | | 17.40 | 0.055 | | 18.06 | 0.064 | |
| | 2467 | 12.15 | 12.24 | | 15.21 | 0.033 | | 15.87 | 0.039 | |
| | 2472 | 8.56 | 7.44 | | 11.05 | 0.013 | | 11.71 | 0.015 | |

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 | 15.12 | 13.76 | 0 | 17.50 | 0.056 | 0.66 | 18.16 | 0.065 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 15.17 | 14.58 | | 17.90 | 0.062 | | 18.56 | 0.072 | |
| | 2452 | 14.62 | 15.03 | | 17.84 | 0.061 | | 18.50 | 0.071 | |
| | 2457 | 7.92 | 7.96 | | 10.95 | 0.012 | | 11.61 | 0.014 | |
| | 2462 | 10.26 | 10.28 | | 13.28 | 0.021 | | 13.94 | 0.025 | |

| 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 | 15.84 | 15.89 | 0 | 18.88 | 0.077 | 0.66 | 19.54 | 0.090 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 16.37 | 16.82 | | 19.61 | 0.091 | | 20.27 | 0.106 | |
| | 2462 | 14.15 | 14.41 | | 17.29 | 0.054 | | 17.95 | 0.062 | |
| | 2467 | 11.86 | 10.50 | | 14.24 | 0.027 | | 14.90 | 0.031 | |
| | 2472 | 7.97 | 8.45 | | 11.23 | 0.013 | | 11.89 | 0.015 | |

| 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 | 15.94 | 13.97 | 0 | 18.08 | 0.064 | 0.66 | 18.74 | 0.075 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 15.19 | 14.95 | | 18.08 | 0.064 | | 18.74 | 0.075 | |
| | 2452 | 14.56 | 14.71 | | 17.65 | 0.058 | | 18.31 | 0.068 | |
| | 2457 | 7.32 | 7.50 | | 10.42 | 0.011 | | 11.08 | 0.013 | |
| | 2462 | 10.08 | 12.91 | | 14.73 | 0.030 | | 15.39 | 0.035 | |

Note: The results have been included cable loss.

| Mode | RU Configuration | 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 | 17.36 | 17.21 | 0 | 20.30 | 0.107 | 0.66 | 20.96 | 0.125 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 52/37 | | 16.58 | 16.62 | | 19.61 | 0.091 | | 20.27 | 0.106 | |
| | 106/53 | | 16.06 | 15.92 | | 19.00 | 0.079 | | 19.66 | 0.092 | |
| | 26/8 | 2472 | 0.24 | 0.47 | | 3.37 | 0.002 | | 4.03 | 0.003 | |
| | 52/40 | | 3.11 | 3.07 | | 6.10 | 0.004 | | 6.76 | 0.005 | |
| | 106/54 | | 6.12 | 6.23 | | 9.19 | 0.008 | | 9.85 | 0.010 | |

| Mode | RU Configuration | 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 | 15.96 | 14.63 | 0 | 18.36 | 0.069 | 0.66 | 19.02 | 0.080 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 242/62 | 2467 | 8.56 | 7.57 | | 11.10 | 0.013 | | 11.76 | 0.015 | |

Note: The results have been included cable loss.

Test SKU #2 [with Speed Antenna]

| 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 | 19.87 | 19.40 | 0 | 19.87 | 0.097 | 1.60 | 21.47 | 0.140 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 21.12 | 21.25 | | 21.25 | 0.133 | | 22.85 | 0.193 | |
| | 2462 | 19.22 | 19.37 | | 19.37 | 0.086 | | 20.97 | 0.125 | |
| | 2467 | 17.97 | 17.14 | | 17.97 | 0.063 | | 19.57 | 0.091 | |
| | 2472 | 15.19 | 14.74 | | 15.19 | 0.033 | | 16.79 | 0.048 | |

| 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 | 17.09 | 17.09 | 0 | 17.09 | 0.051 | 1.60 | 18.69 | 0.074 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 20.61 | 20.52 | | 20.61 | 0.115 | | 22.21 | 0.166 | |
| | 2462 | 15.27 | 15.04 | | 15.27 | 0.034 | | 16.87 | 0.049 | |
| | 2467 | 13.65 | 13.58 | | 13.65 | 0.023 | | 15.25 | 0.033 | |
| | 2472 | 11.81 | 11.74 | | 11.81 | 0.015 | | 13.41 | 0.022 | |

| 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 | 15.72 | 15.71 | 0 | 18.73 | 0.075 | 1.60 | 20.33 | 0.108 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 18.89 | 19.11 | | 22.01 | 0.159 | | 23.61 | 0.230 | |
| | 2462 | 14.37 | 14.41 | | 17.40 | 0.055 | | 19.00 | 0.079 | |
| | 2467 | 12.15 | 12.24 | | 15.21 | 0.033 | | 16.81 | 0.048 | |
| | 2472 | 8.56 | 7.44 | | 11.05 | 0.013 | | 12.65 | 0.018 | |

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 | 15.12 | 13.76 | 0 | 17.50 | 0.056 | 1.60 | 19.10 | 0.081 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 15.17 | 14.58 | | 17.90 | 0.062 | | 19.50 | 0.089 | |
| | 2452 | 14.62 | 15.03 | | 17.84 | 0.061 | | 19.44 | 0.088 | |
| | 2457 | 7.92 | 7.96 | | 10.95 | 0.012 | | 12.55 | 0.018 | |
| | 2462 | 10.26 | 10.28 | | 13.28 | 0.021 | | 14.88 | 0.031 | |

| 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 | 15.84 | 15.89 | 0 | 18.88 | 0.077 | 1.60 | 20.48 | 0.112 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 16.37 | 16.82 | | 19.61 | 0.091 | | 21.21 | 0.132 | |
| | 2462 | 14.15 | 14.41 | | 17.29 | 0.054 | | 18.89 | 0.077 | |
| | 2467 | 11.86 | 10.50 | | 14.24 | 0.027 | | 15.84 | 0.038 | |
| | 2472 | 7.97 | 8.45 | | 11.23 | 0.013 | | 12.83 | 0.019 | |

| 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 | 15.94 | 13.97 | 0 | 18.08 | 0.064 | 1.60 | 19.68 | 0.093 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 2442 | 15.19 | 14.95 | | 18.08 | 0.064 | | 19.68 | 0.093 | |
| | 2452 | 14.56 | 14.71 | | 17.65 | 0.058 | | 19.25 | 0.084 | |
| | 2457 | 7.32 | 7.50 | | 10.42 | 0.011 | | 12.02 | 0.016 | |
| | 2462 | 10.08 | 12.91 | | 14.73 | 0.030 | | 16.33 | 0.043 | |

Note: The results have been included cable loss.

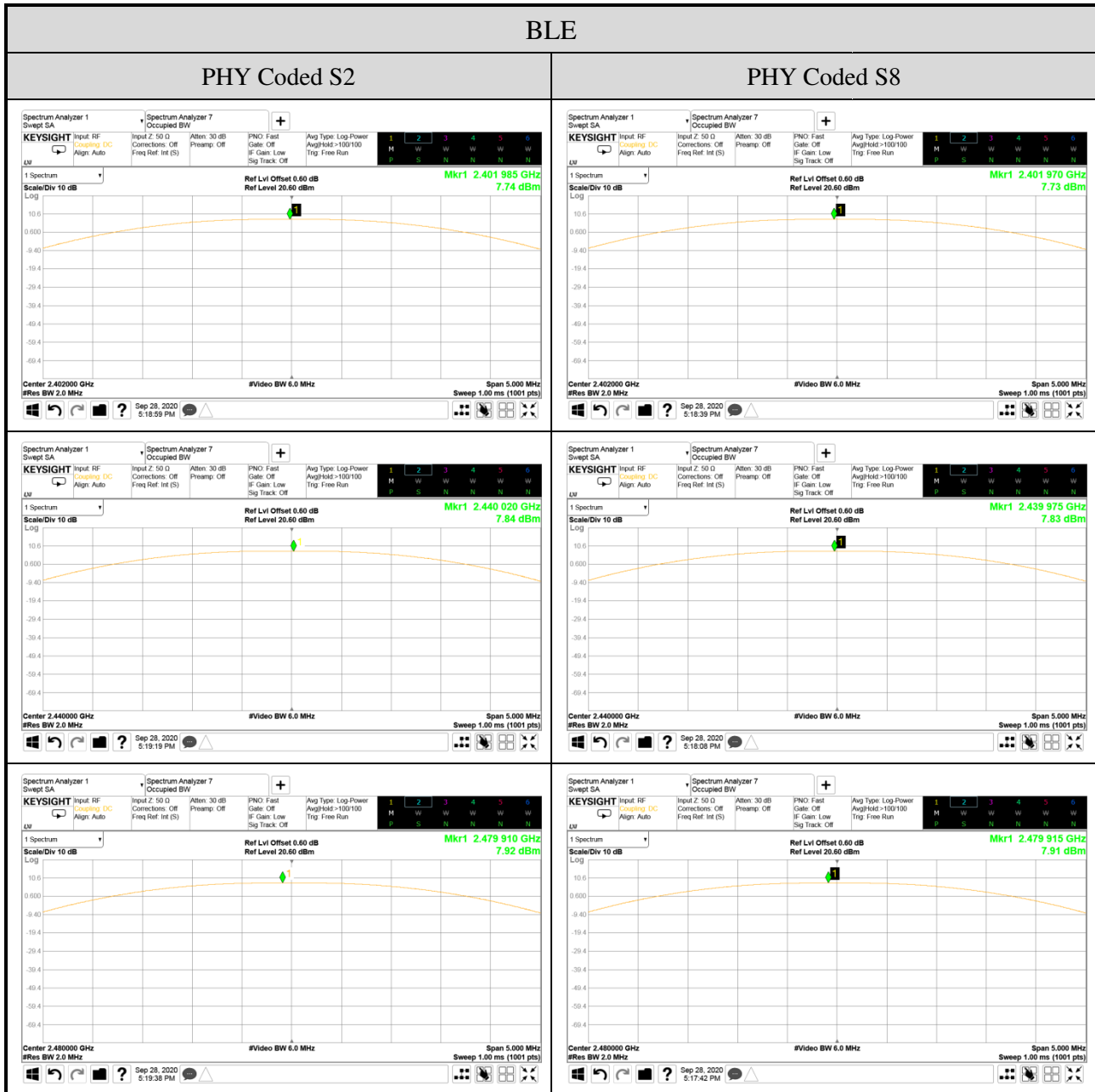
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|---------------|------------------|------------------------|----------------------------|---------|-------------|----------------------------|-------|--------------------|---------------------------------|-------|---|
| | | | Chain 0 | Chain 1 | | (dBm) | (W) | | (dBm) | (W) | |
| 802.11ax-HE20 | 26/0 | 2412 | 17.36 | 17.21 | 0 | 20.30 | 0.107 | 1.60 | 21.90 | 0.155 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 52/37 | | 16.58 | 16.62 | | 19.61 | 0.091 | | 21.21 | 0.132 | |
| | 106/53 | | 16.06 | 15.92 | | 19.00 | 0.079 | | 20.60 | 0.115 | |
| | 26/8 | 2472 | 0.24 | 0.47 | | 3.37 | 0.002 | | 4.97 | 0.003 | |
| | 52/40 | | 3.11 | 3.07 | | 6.10 | 0.004 | | 7.70 | 0.006 | |
| | 106/54 | | 6.12 | 6.23 | | 9.19 | 0.008 | | 10.79 | 0.012 | |

| Mode | RU Configuration | 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 | 15.96 | 14.63 | 0 | 18.36 | 0.069 | 1.60 | 19.96 | 0.099 | <30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P) |
| | 242/62 | 2467 | 8.56 | 7.57 | | 11.10 | 0.013 | | 12.70 | 0.019 | |

Note: The results have been included cable loss.

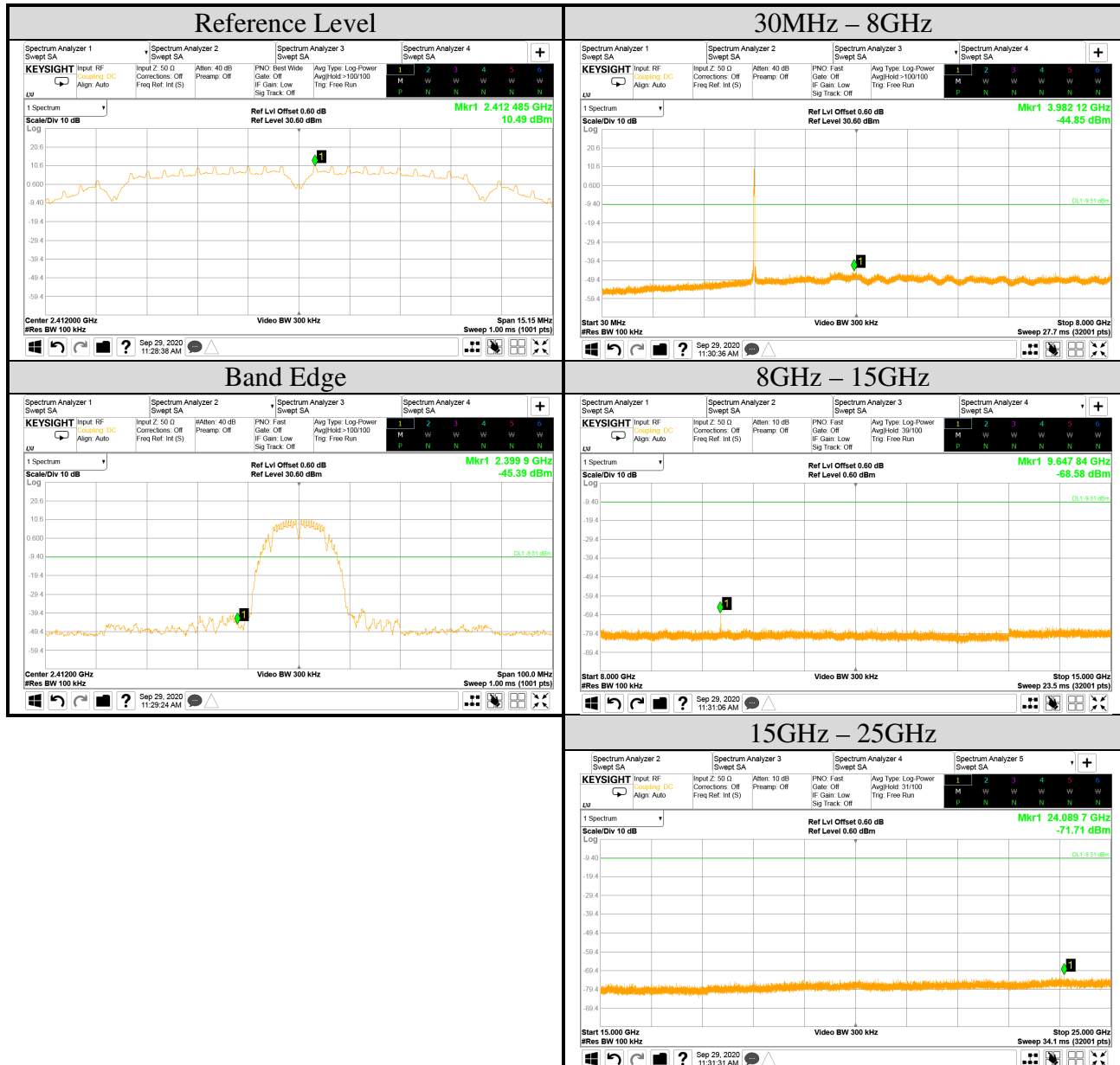
A.4.3 Measurement Plots





A.5 EMISSION LIMITATIONS

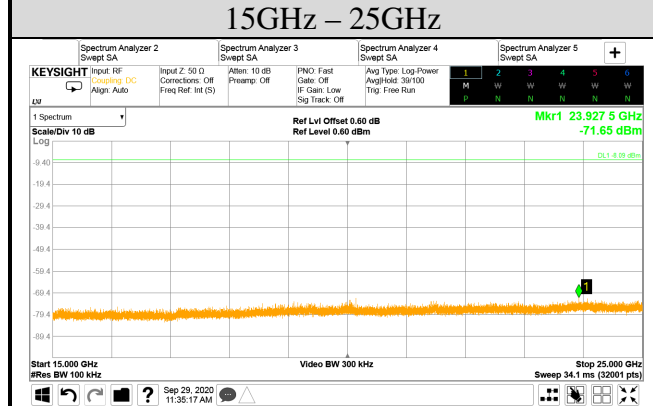
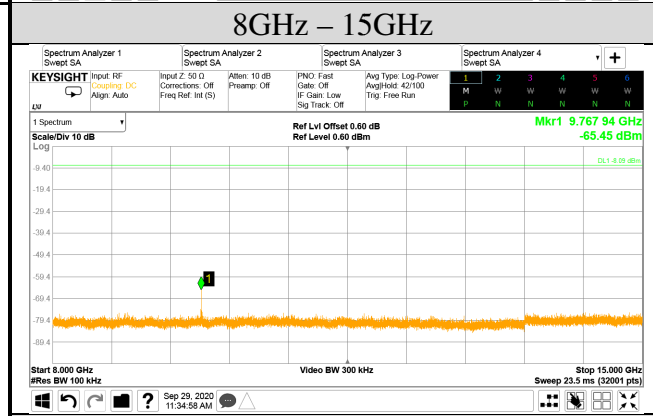
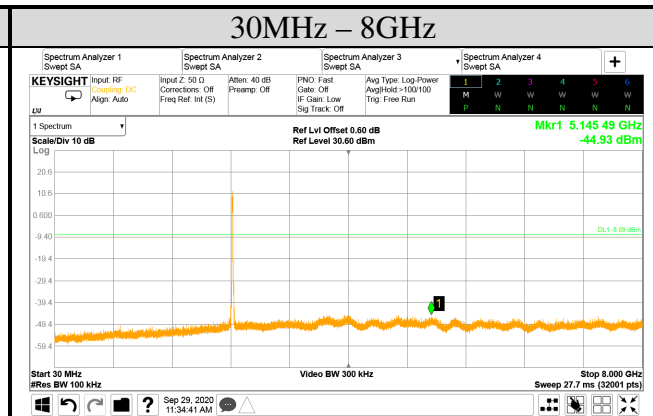
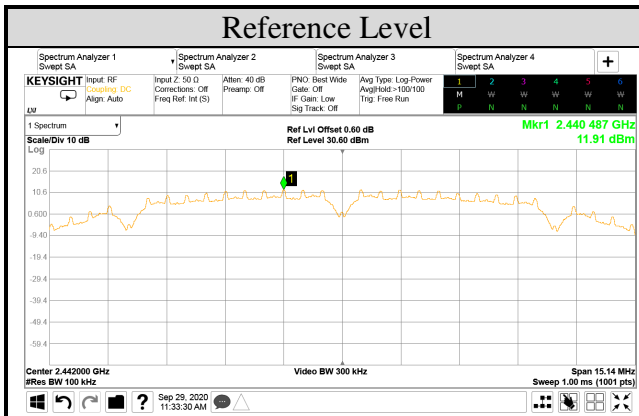
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|---|------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11b | Tested By | Brian Hsieh |
| Frequency | TX 2412MHz | | |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0dB |



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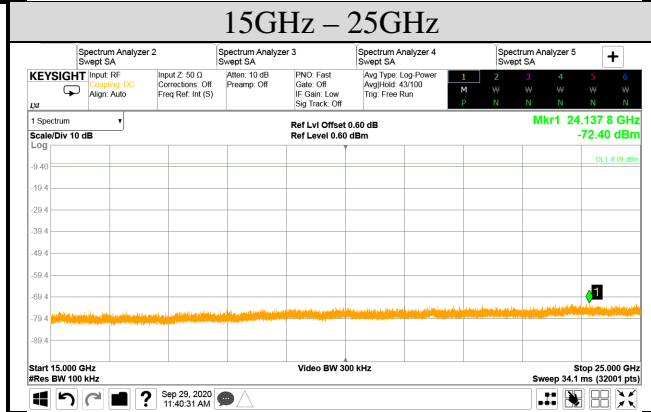
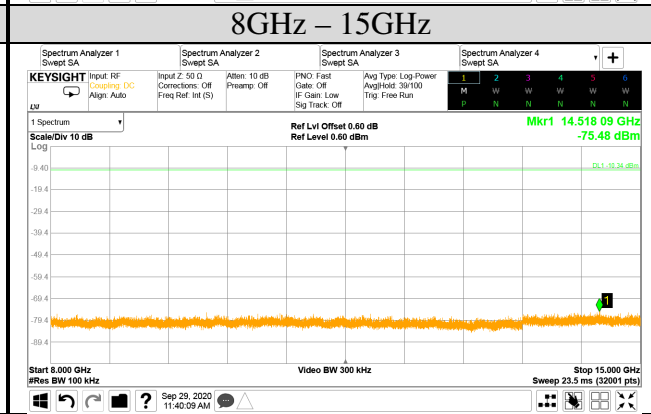
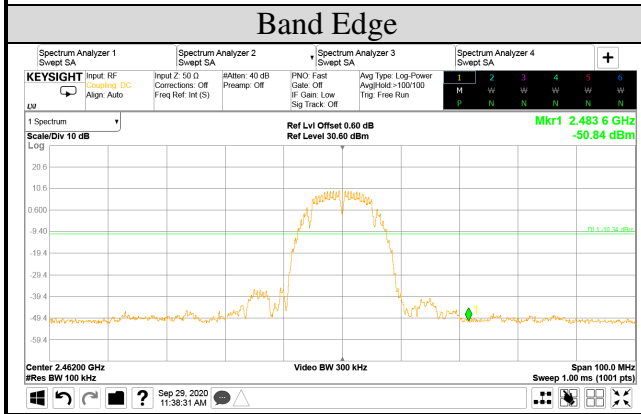
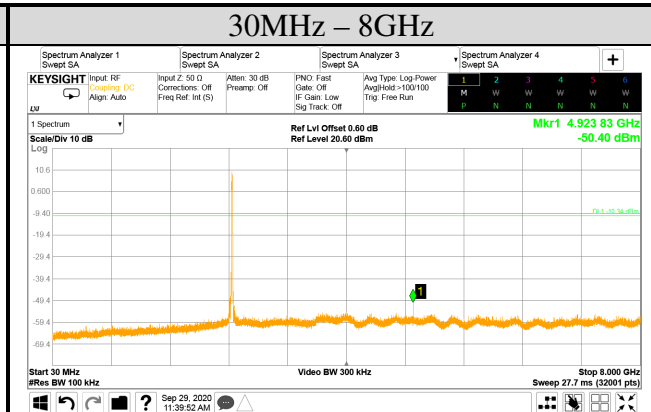
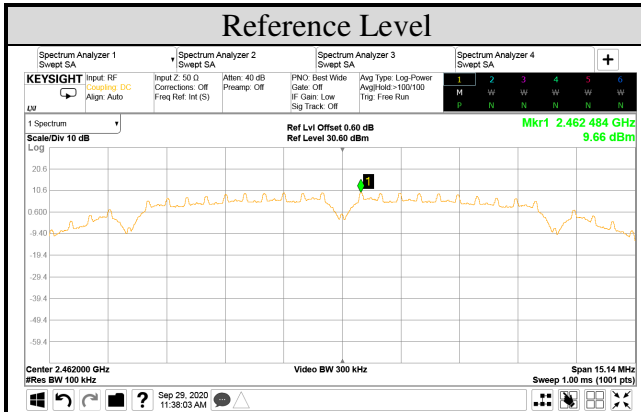
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|--|------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11b | Tested By | Brian Hsieh |
| Frequency | TX 2442MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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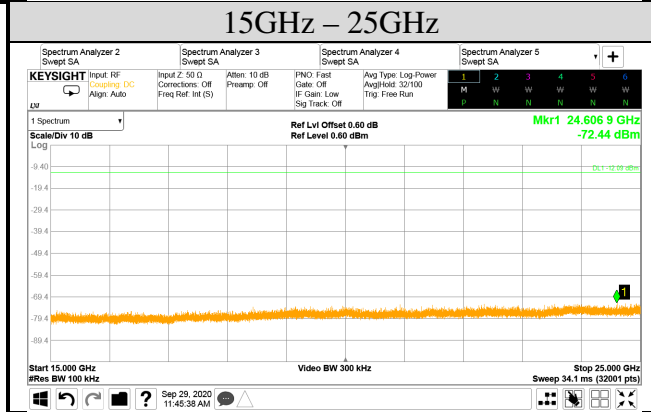
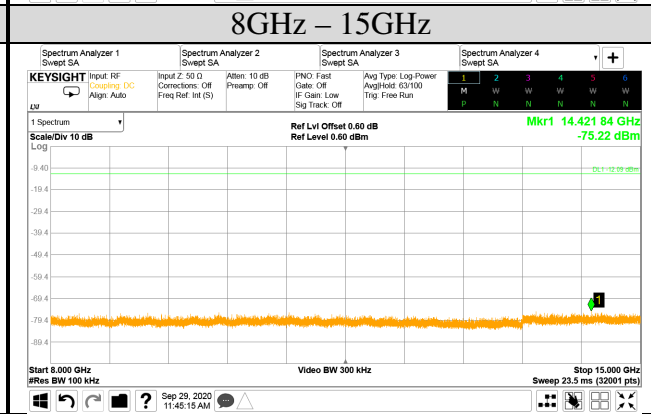
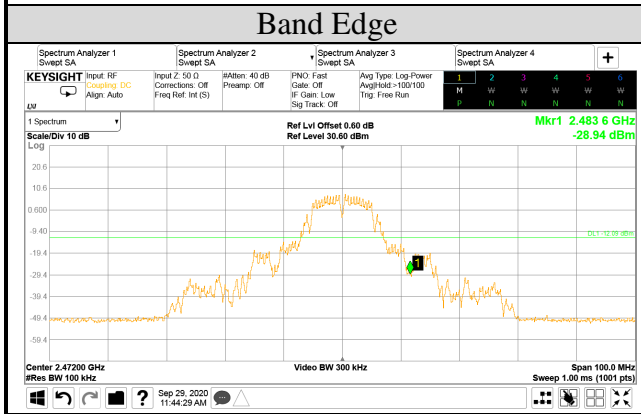
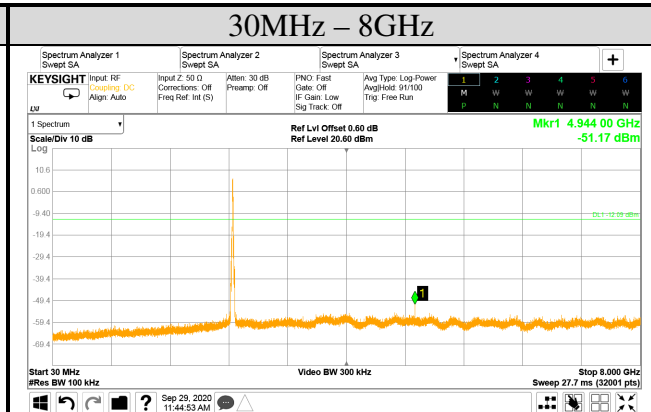
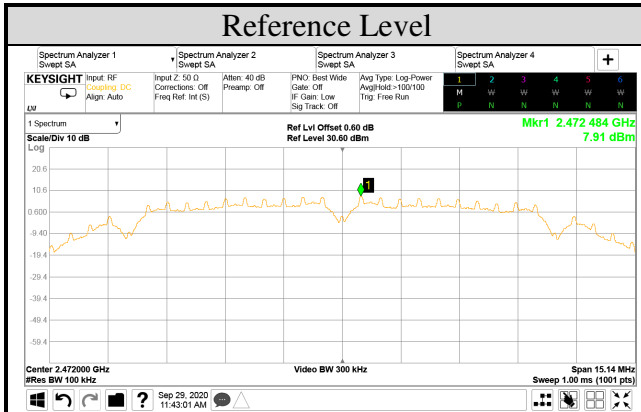
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|--|------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11b | Tested By | Brian Hsieh |
| Frequency | TX 2462MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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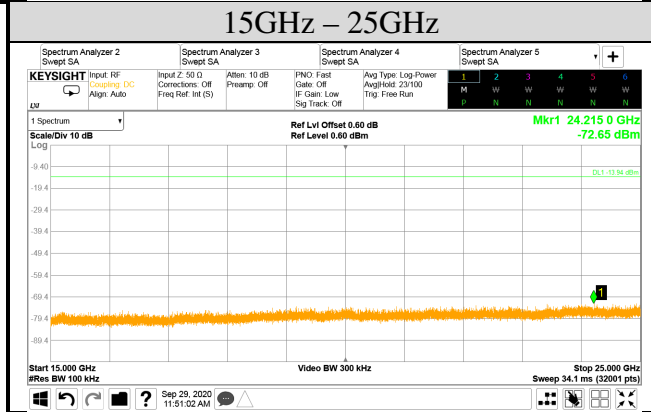
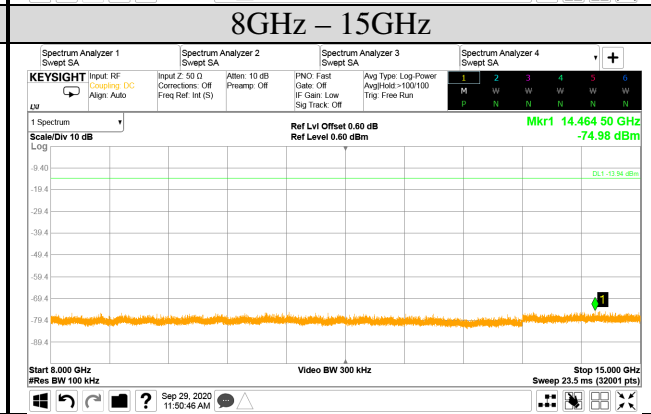
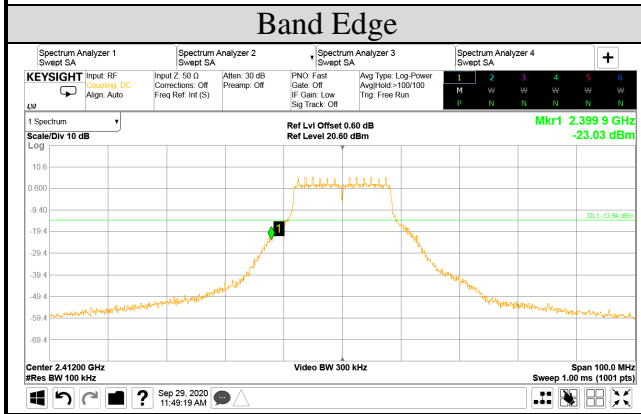
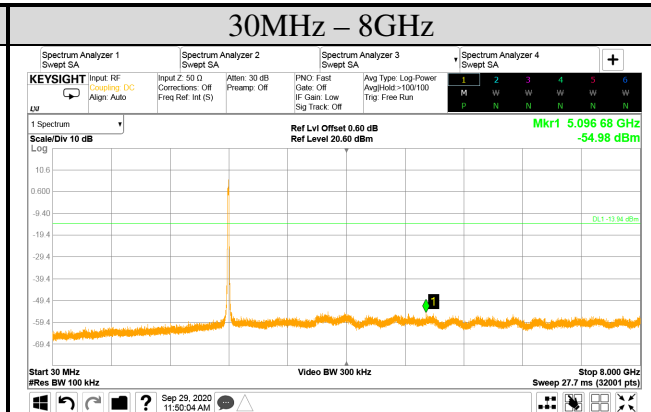
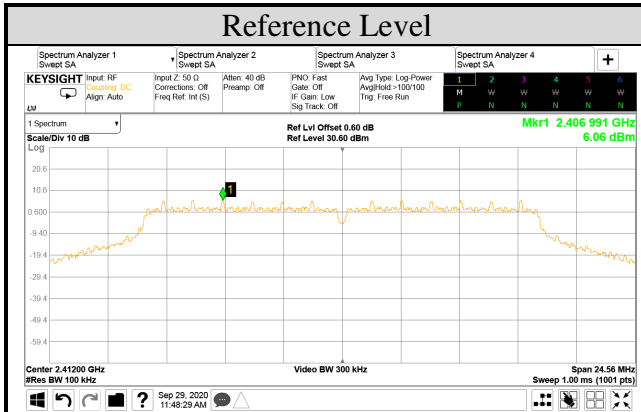
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|--|------------|--------------|--------------------------------|
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| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11b | Tested By | Brian Hsieh |
| Frequency | TX 2472MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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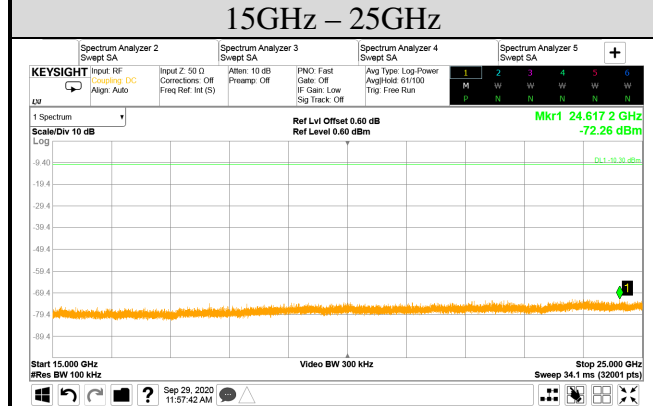
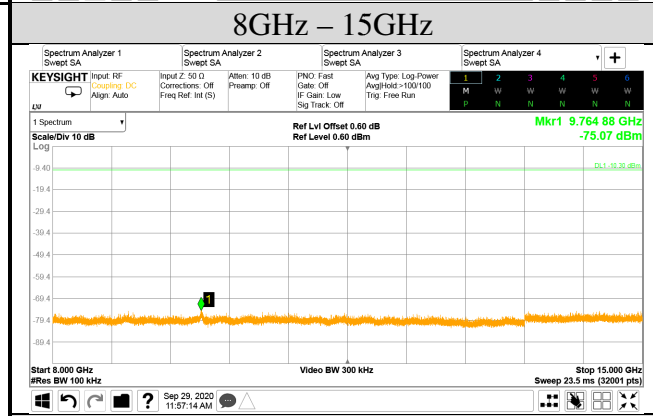
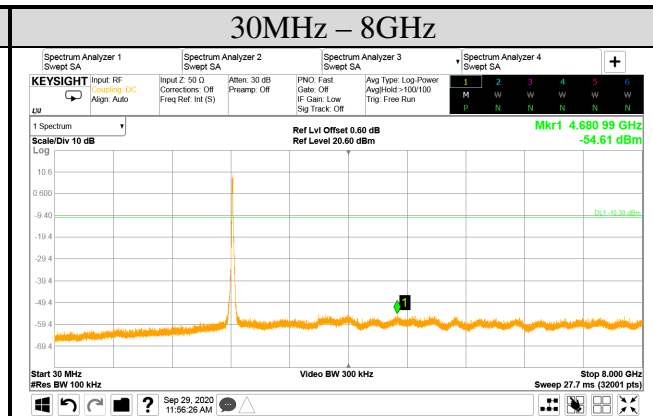
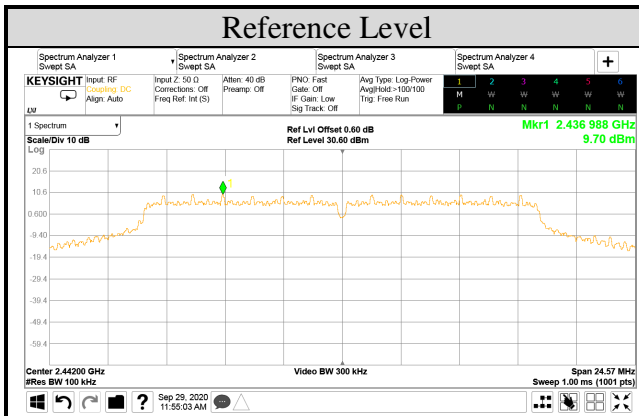
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|--|------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11g | Tested By | Brian Hsieh |
| Frequency | TX 2412MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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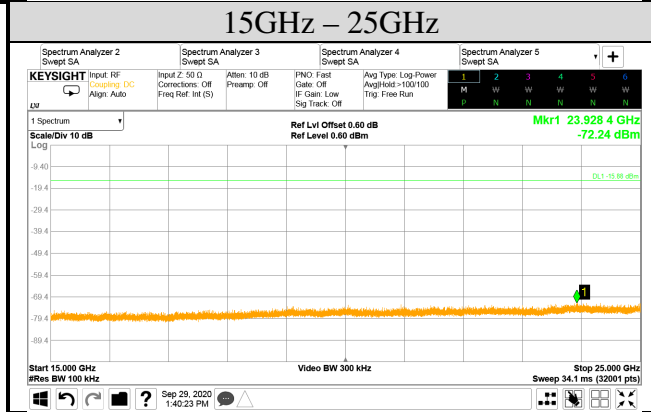
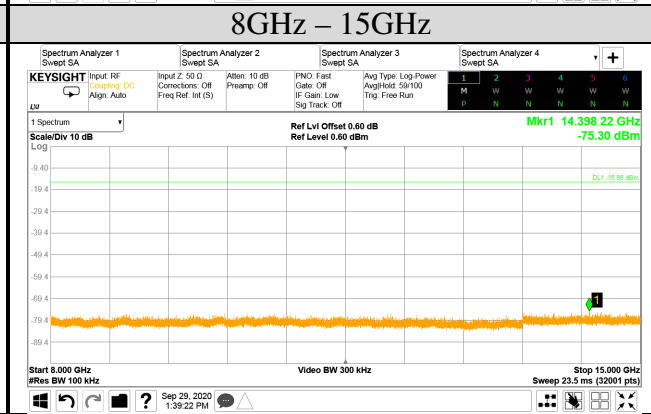
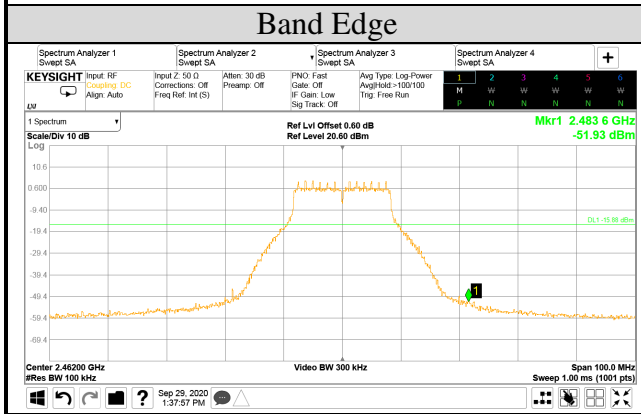
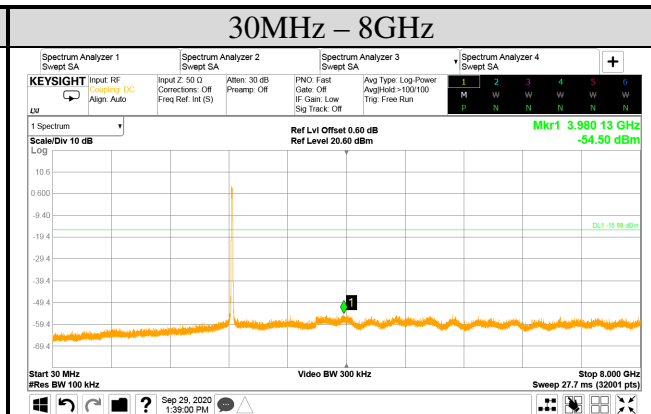
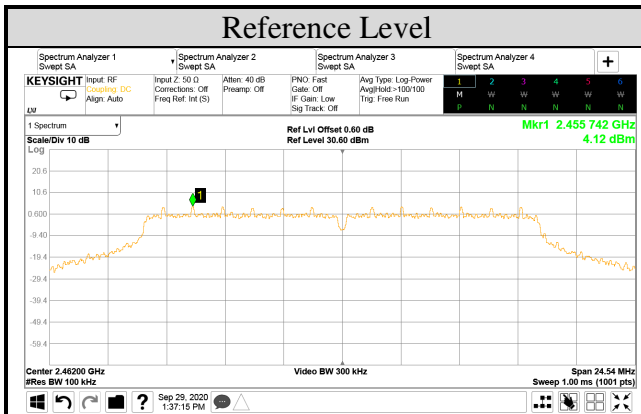
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| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11g | Tested By | Brian Hsieh |
| Frequency | TX 2442MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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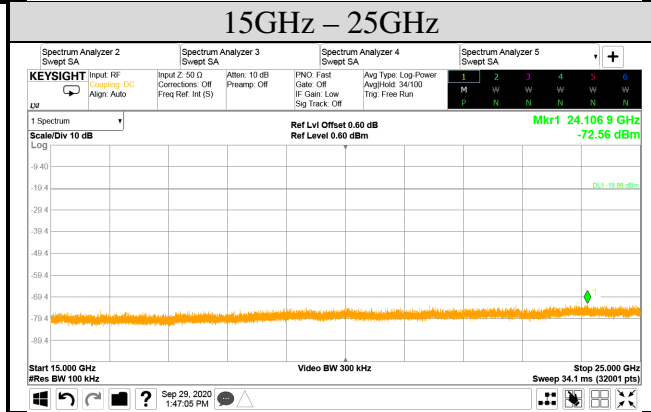
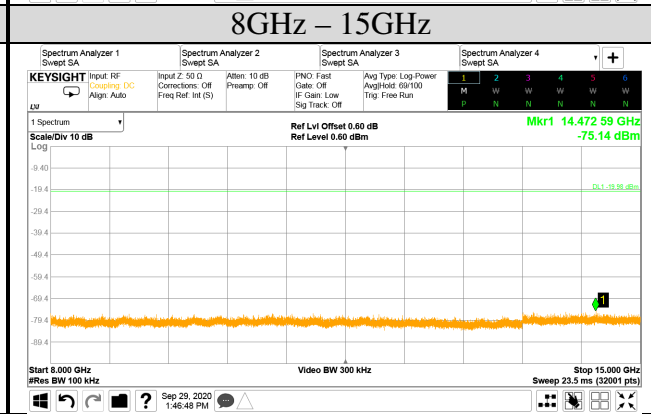
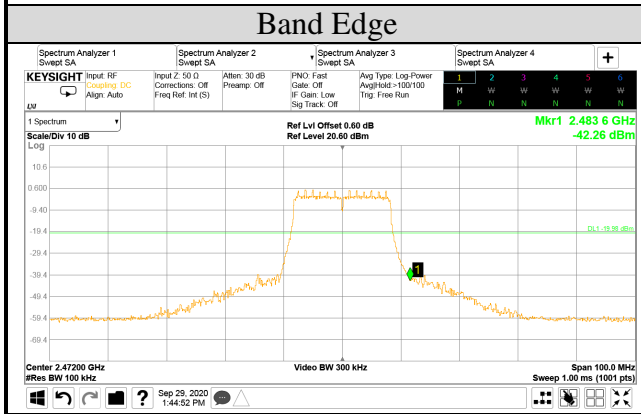
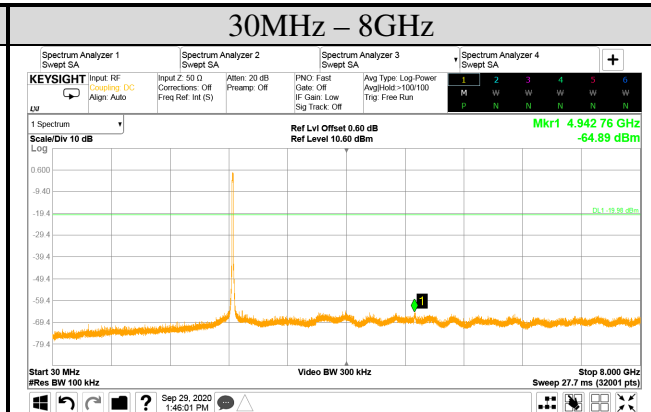
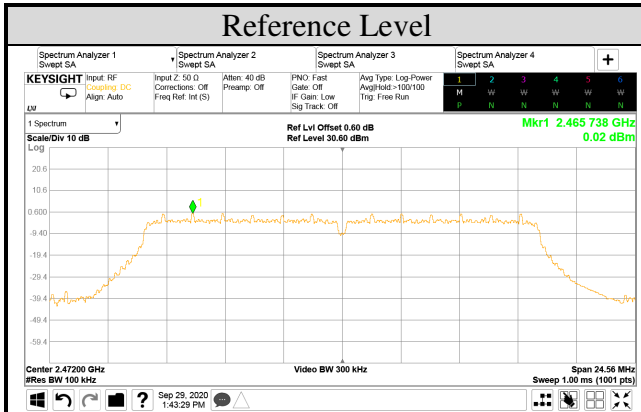
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| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11g | Tested By | Brian Hsieh |
| Frequency | TX 2462MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 0dB |



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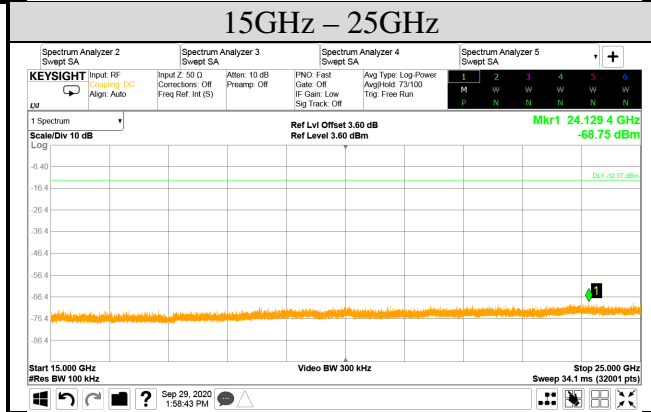
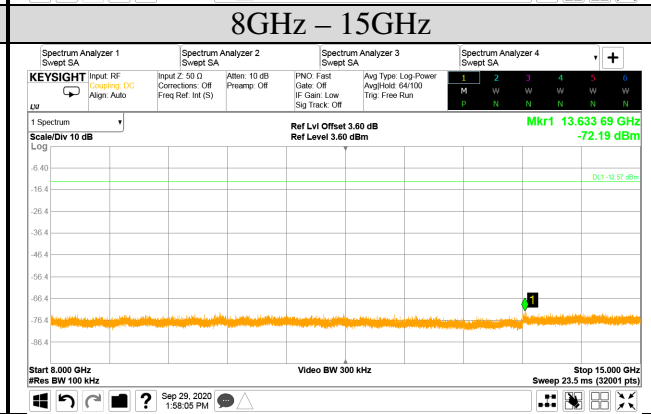
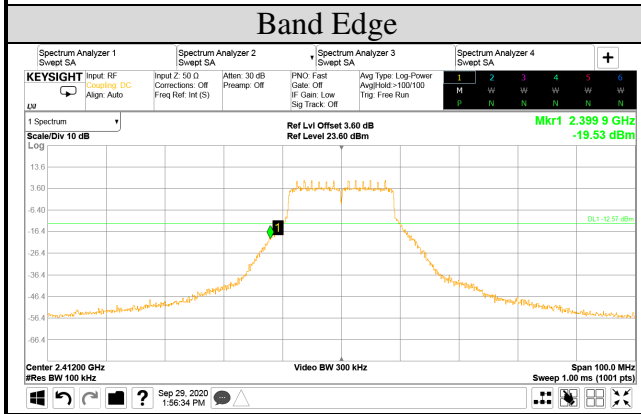
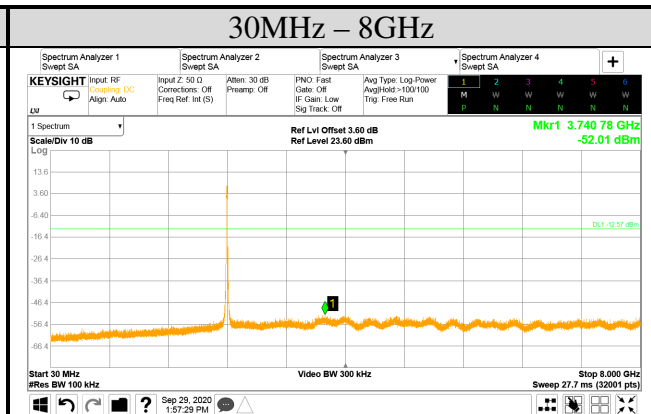
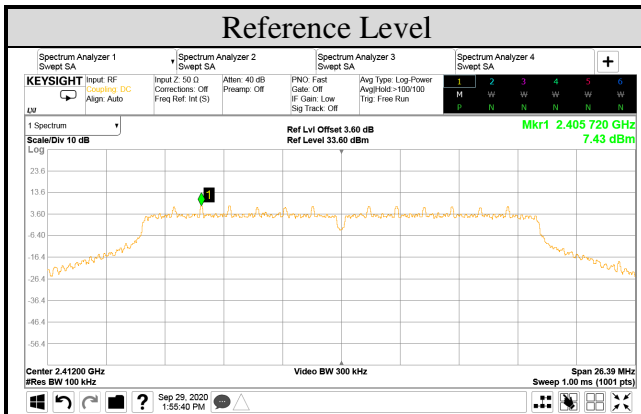
| | | | |
|---|------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11g | Tested By | Brian Hsieh |
| Frequency | TX 2472MHz | | |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0dB |



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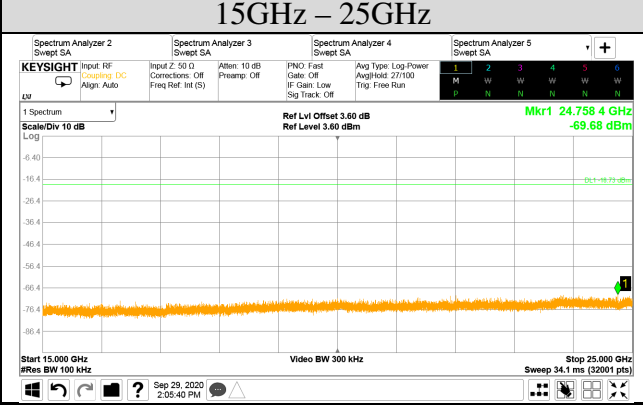
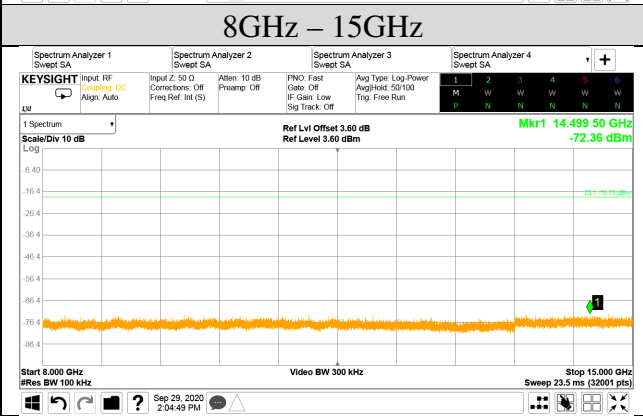
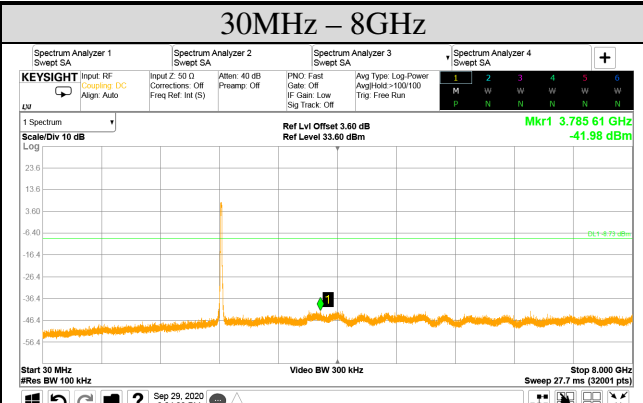
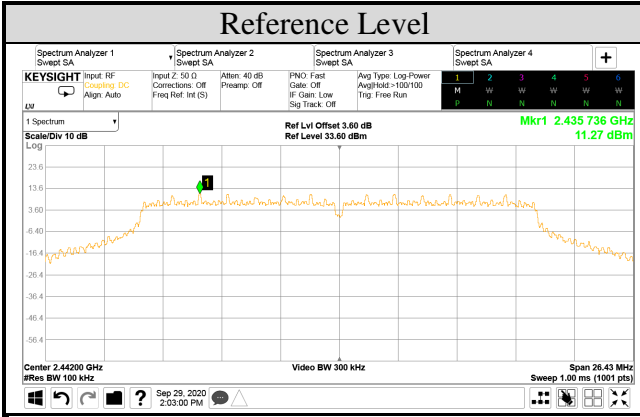
| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT20 | Tested By | Brian Hsieh |
| Frequency | TX 2412MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |



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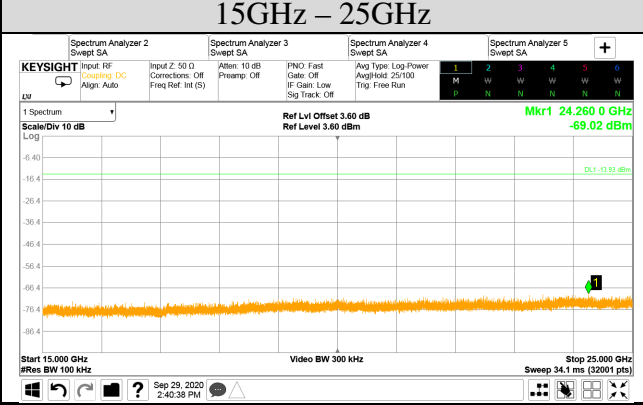
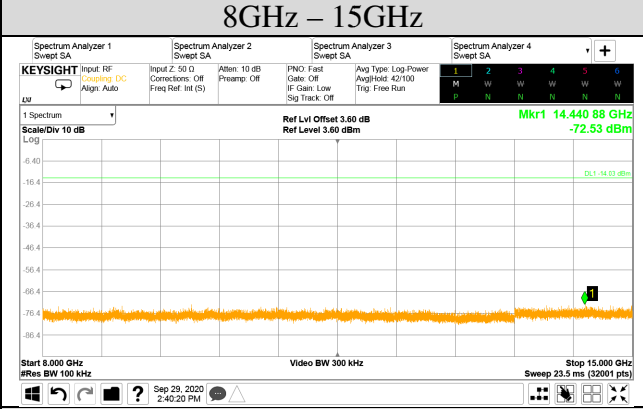
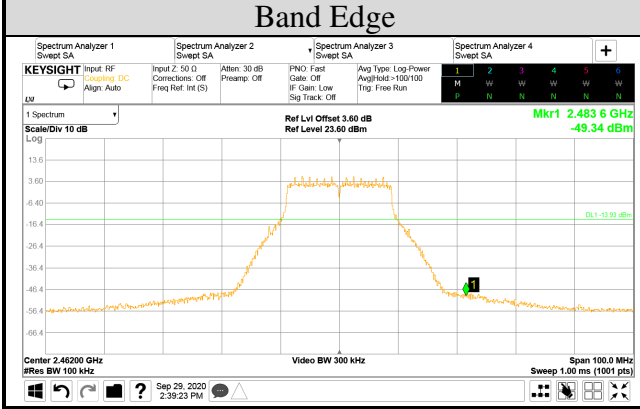
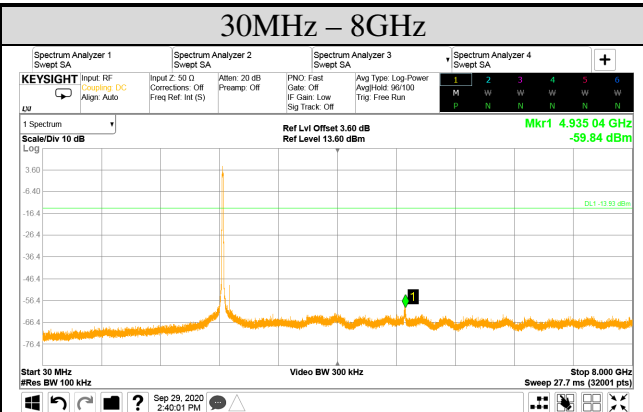
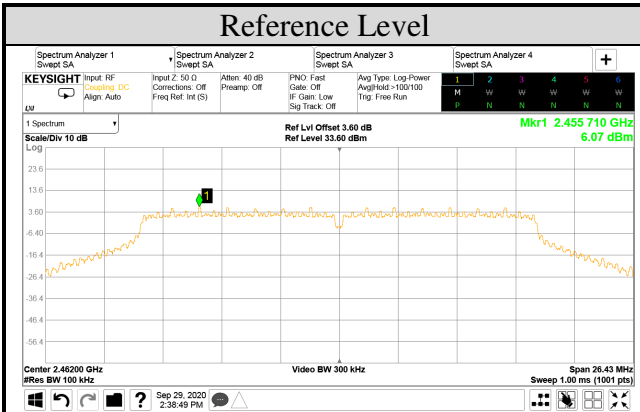
| | | | |
|---|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT20 | Tested By | Brian Hsieh |
| Frequency | TX 2442MHz | | |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 3dB |



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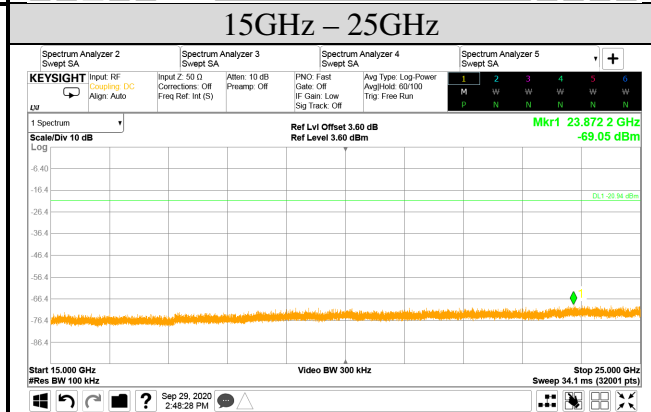
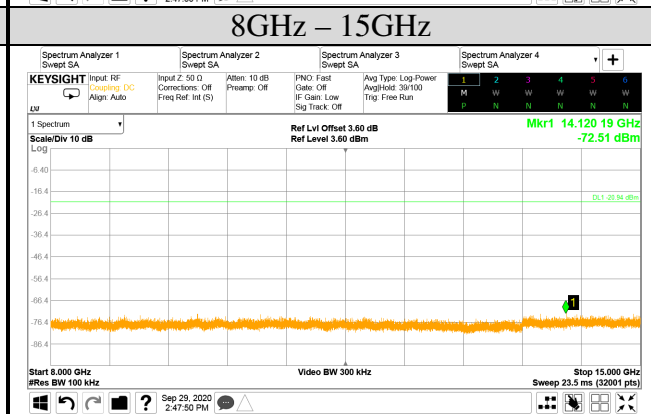
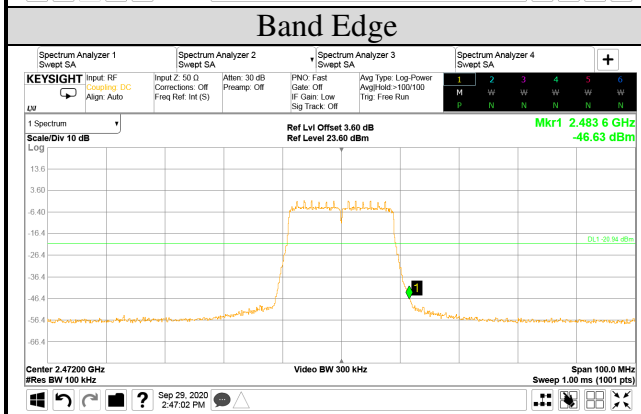
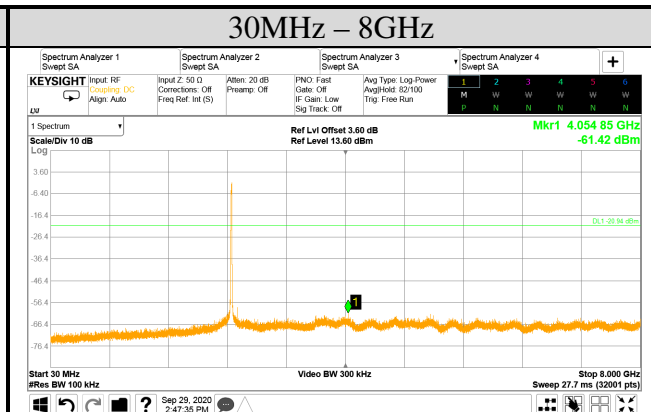
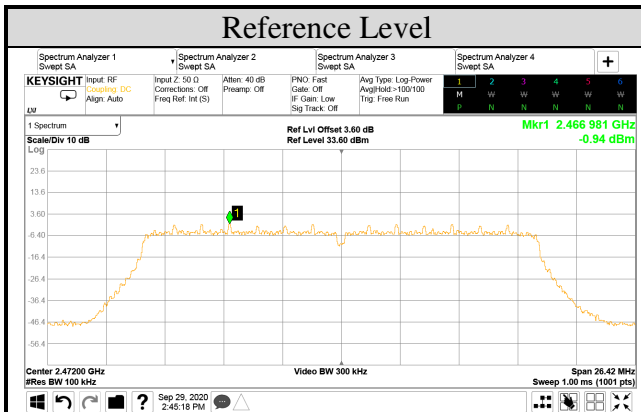
| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT20 | Tested By | Brian Hsieh |
| Frequency | TX 2462MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |



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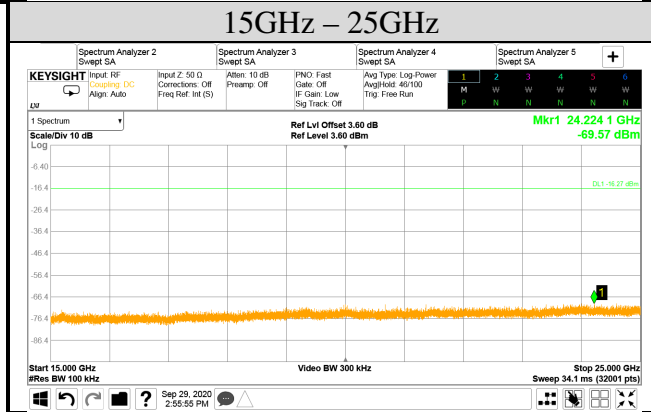
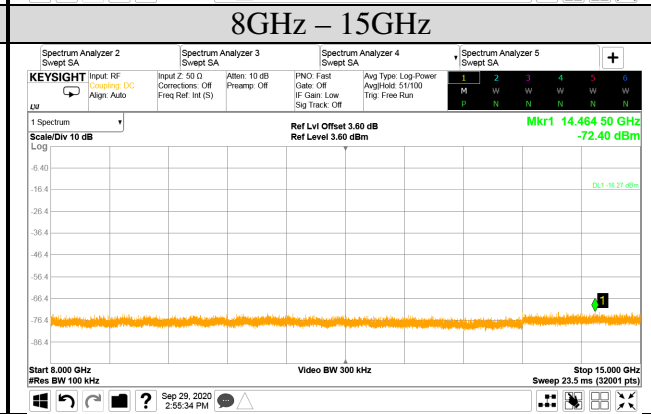
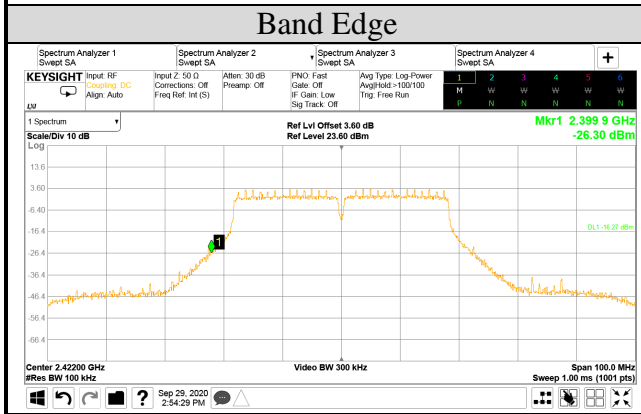
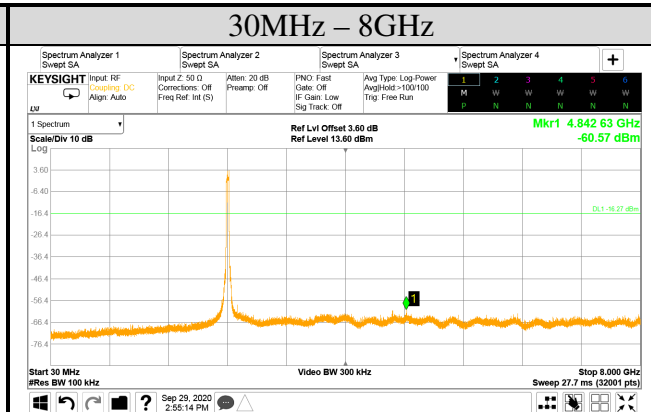
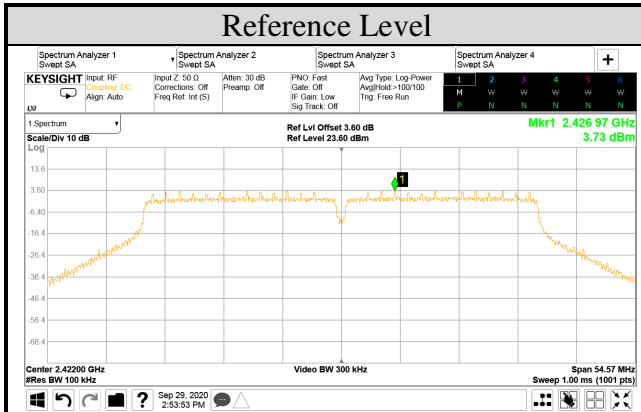
| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT20 | Tested By | Brian Hsieh |
| Frequency | TX 2472MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |



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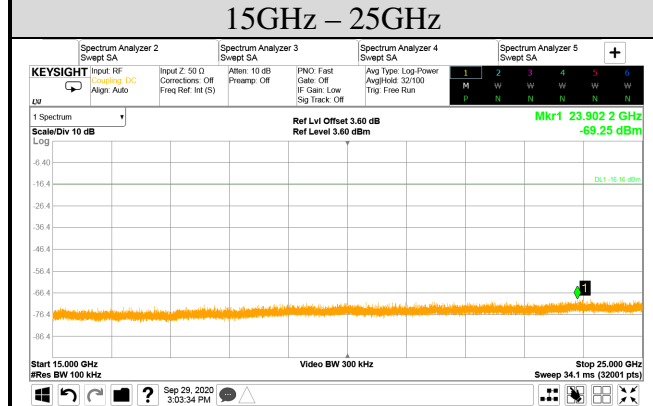
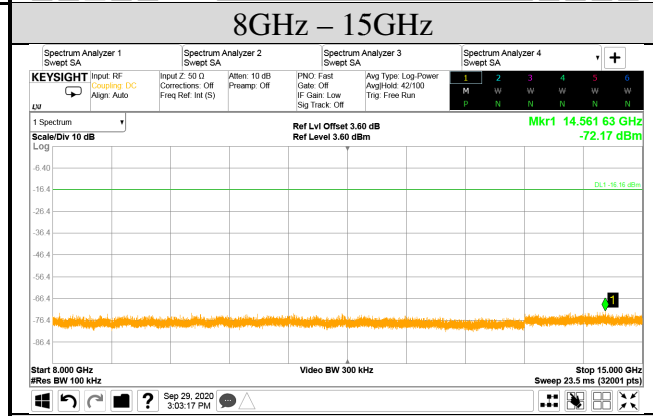
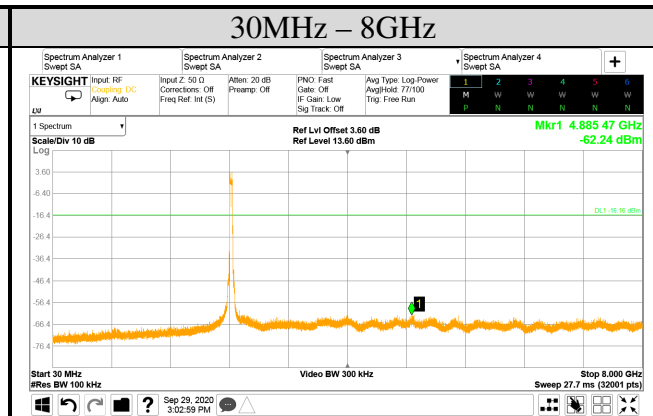
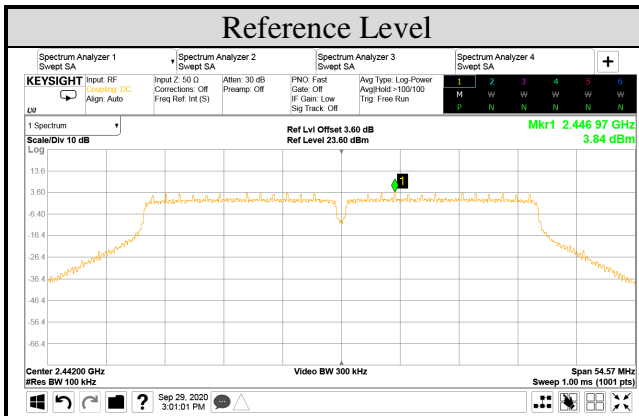
| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT40 | Tested By | Brian Hsieh |
| Frequency | TX 2422MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |



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| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT40 | Tested By | Brian Hsieh |
| Frequency | TX 2442MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |



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| | | | |
|--|--------------|--------------|--------------------------------|
| Test Date | 2020/09/29 | Temp./Hum. | 24°C/52% |
| Cable Loss | 0.60dB | Test Voltage | AC 120V, 60Hz (via AC Adapter) |
| Mode | 802.11n-HT40 | Tested By | Brian Hsieh |
| Frequency | TX 2452MHz | | |
| Simultaneous Factor10 log(n) (Note: "n" is antenna number) | | | 3dB |

