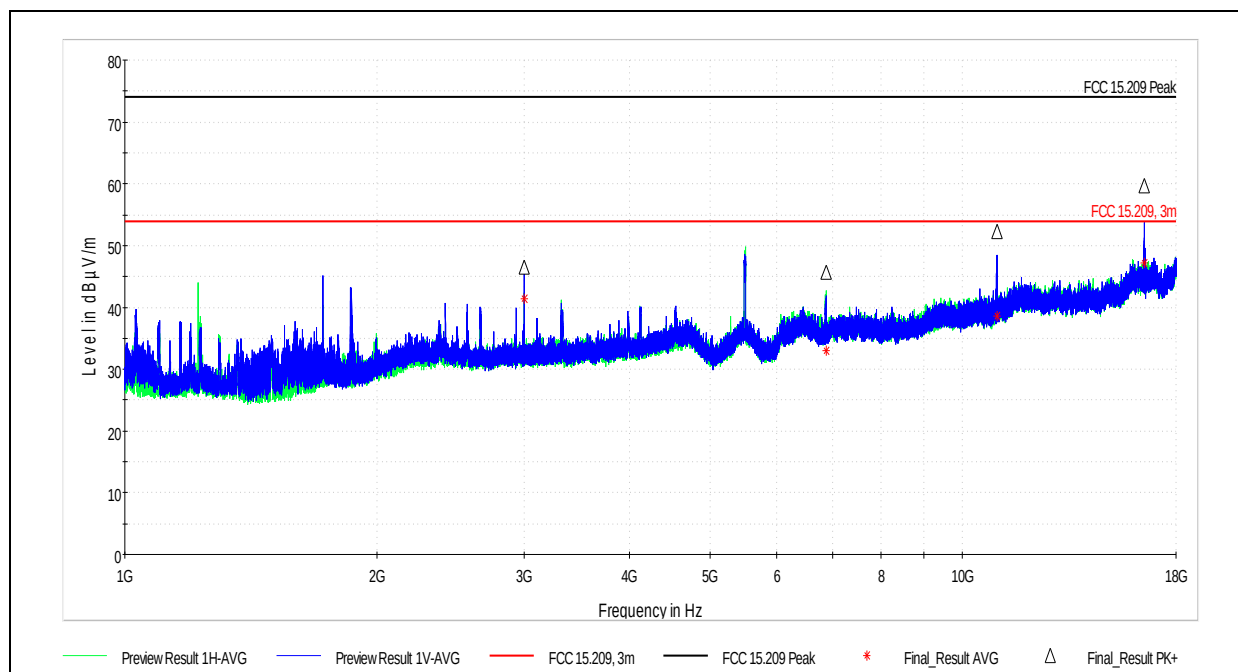


U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-2C, Ch100, 5500MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2999.839500	46.55	74.00	27.45	1000.000	200.0	V	26.0	4.8
6878.282000	45.72	74.00	28.28	1000.000	171.0	V	50.0	10.0
11001.322000	52.31	74.00	21.69	1000.000	100.0	V	23.0	15.2
16497.930500	59.71	74.00	14.29	1000.000	166.0	V	-10.0	21.0

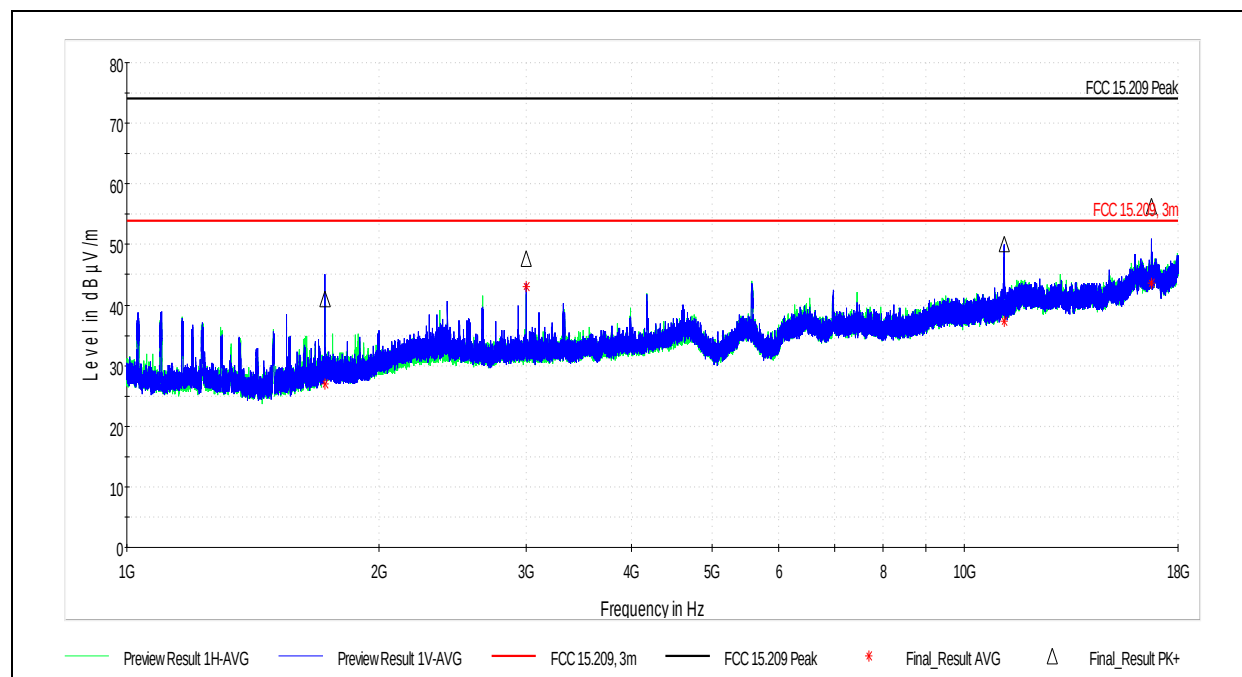
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2999.839500	41.40	54.00	12.60	1000.000	200.0	V	26.0	4.8
6878.282000	32.94	54.00	21.06	1000.000	171.0	V	50.0	10.0
11001.322000	38.57	54.00	15.43	1000.000	100.0	V	23.0	15.2
16497.930500	47.16	54.00	6.84	1000.000	166.0	V	-10.0	21.0

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-2C, Ch116, 5580MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.922000	40.98	74.00	33.02	1000.000	200.0	V	25.0	-0.2
2999.845000	47.75	74.00	26.25	1000.000	200.0	V	21.0	4.8
11167.157500	50.12	74.00	23.88	1000.000	135.0	V	28.0	15.5
16734.976500	56.38	74.00	17.62	1000.000	126.0	V	30.0	21.4

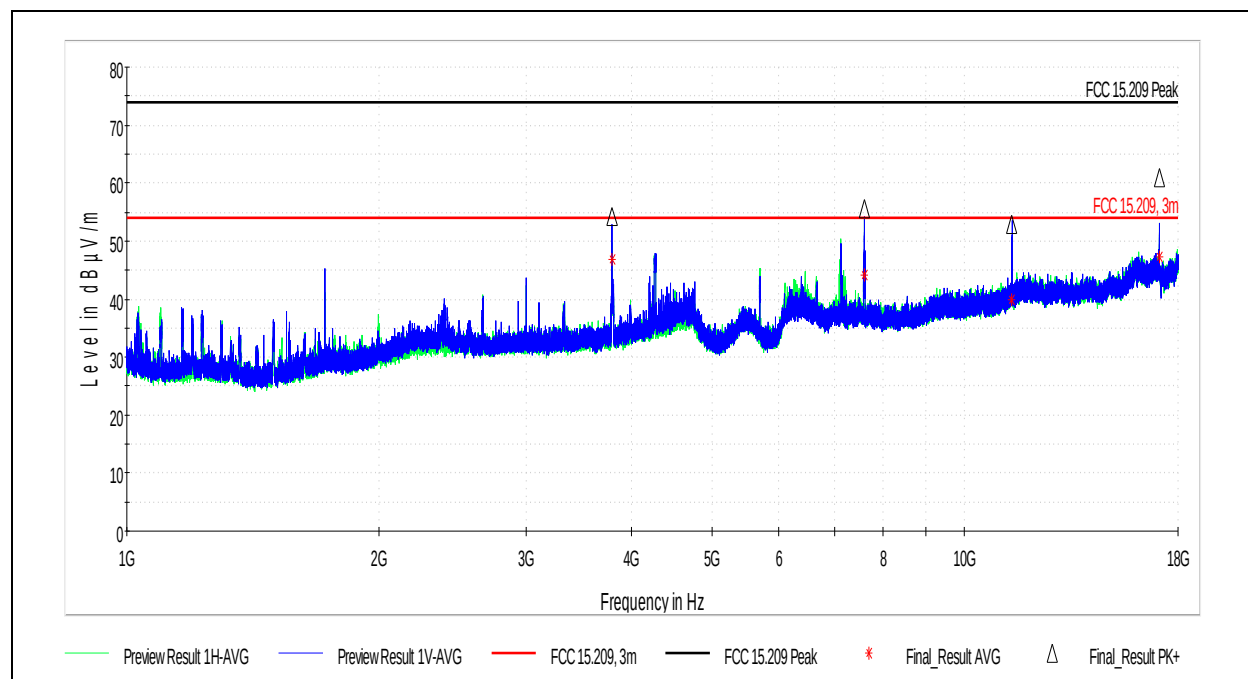
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.922000	27.04	54.00	26.96	1000.000	200.0	V	25.0	-0.2
2999.845000	43.12	54.00	10.88	1000.000	200.0	V	21.0	4.8
11167.157500	37.28	54.00	16.72	1000.000	135.0	V	28.0	15.5
16734.976500	43.56	54.00	10.44	1000.000	126.0	V	30.0	21.4

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-2C, Ch140, 5700MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3799.970000	54.22	74.00	19.78	1000.000	135.0	H	22.0	6.0
7600.075000	55.63	74.00	18.37	1000.000	100.0	V	50.0	10.8
11398.083500	52.83	74.00	21.17	1000.000	149.0	V	12.0	15.7
17102.180000	60.89	74.00	13.11	1000.000	137.0	H	50.0	21.2

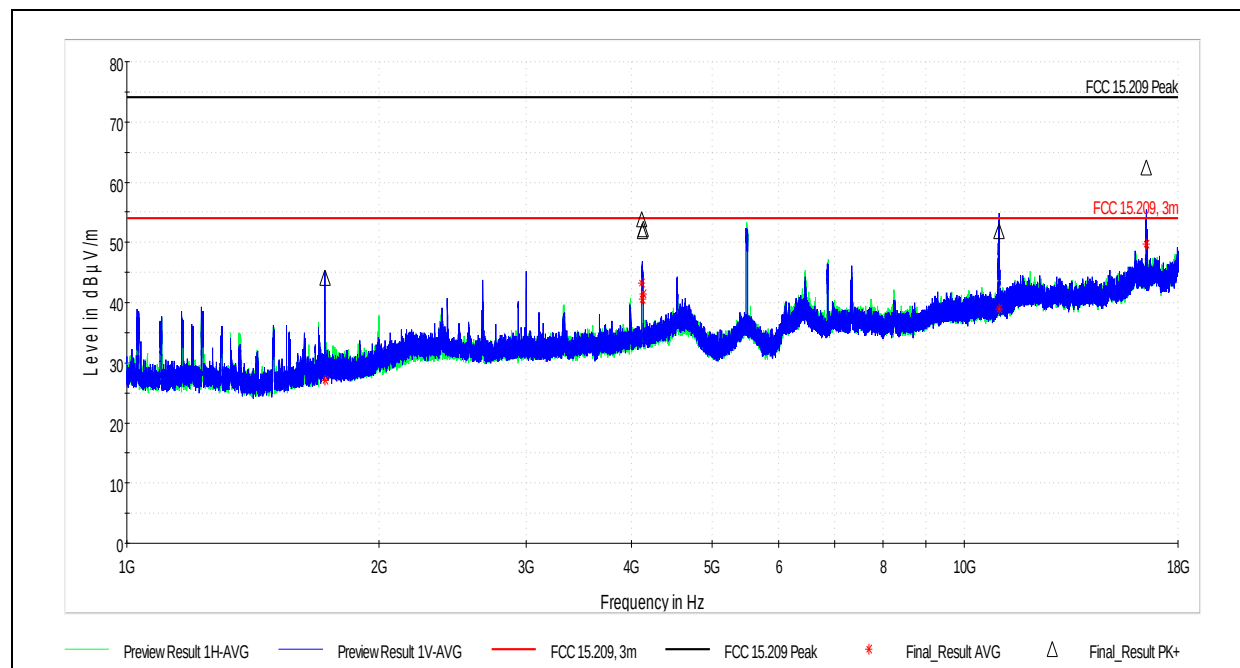
Final_Result_AVG

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3799.970000	46.89	54.00	7.11	1000.000	135.0	H	22.0	6.0
7600.075000	44.05	54.00	9.95	1000.000	100.0	V	50.0	10.8
11398.083500	39.93	54.00	14.07	1000.000	149.0	V	12.0	15.7
17102.180000	47.35	54.00	6.65	1000.000	137.0	H	50.0	21.2

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT20), U-NII-2C, Ch100, 5500MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.701000	44.05	74.00	29.95	1000.000	174.0	H	30.0	-0.2
4123.336000	53.78	74.00	20.22	1000.000	133.0	V	50.0	6.3
4127.632000	51.88	74.00	22.12	1000.000	141.0	V	179.0	6.3
4132.645000	52.11	74.00	21.89	1000.000	162.0	H	50.0	6.3
11003.672000	51.79	74.00	22.21	1000.000	177.0	V	23.0	15.2
16499.253500	62.44	74.00	11.56	1000.000	176.0	V	-10.0	21.0

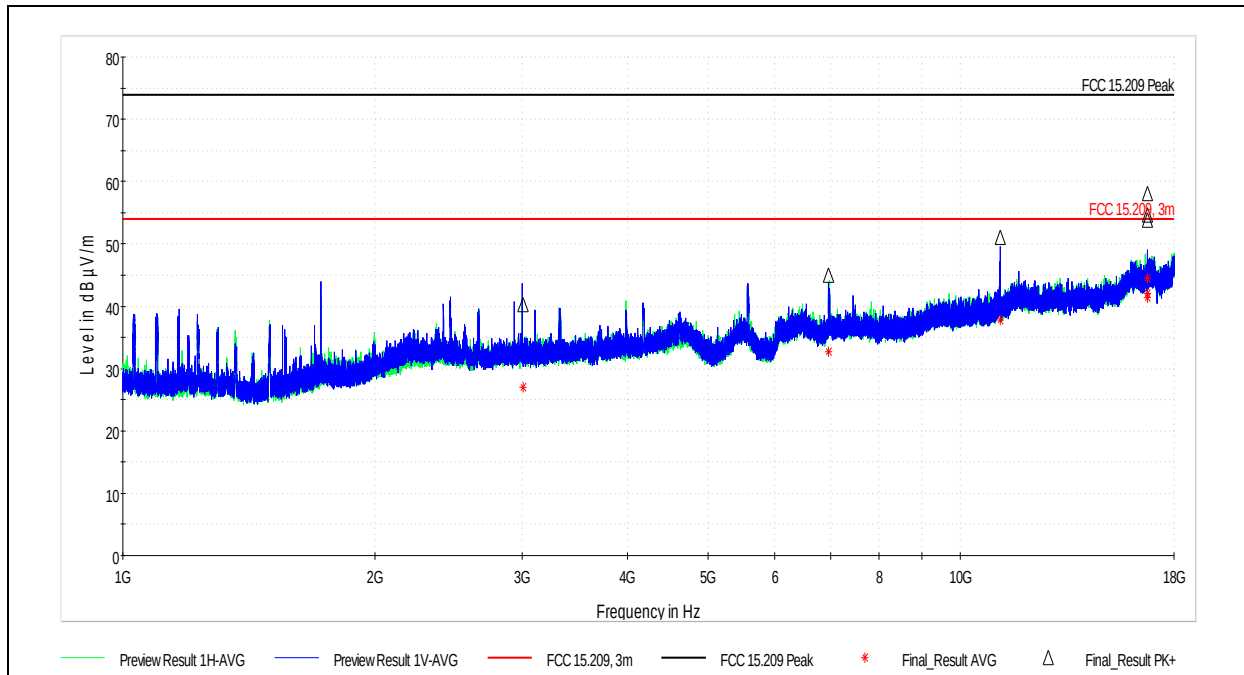
Final_Result_AVG

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.701000	27.17	54.00	26.83	1000.000	174.0	H	30.0	-0.2
4123.336000	43.27	54.00	10.73	1000.000	133.0	V	50.0	6.3
4127.632000	40.52	54.00	13.48	1000.000	141.0	V	179.0	6.3
4132.645000	41.36	54.00	12.64	1000.000	162.0	H	50.0	6.3
11003.672000	38.89	54.00	15.11	1000.000	177.0	V	23.0	15.2
16499.253500	49.74	54.00	4.26	1000.000	176.0	V	-10.0	21.0

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT20), U-NII-2C, Ch116, 5580MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3004.352500	40.25	74.00	33.75	1000.000	200.0	H	50.0	4.8
6961.520000	44.98	74.00	29.02	1000.000	200.0	V	23.0	10.1
11159.039000	51.10	74.00	22.90	1000.000	133.0	V	0.0	15.5
16737.096500	54.65	74.00	19.35	1000.000	134.0	V	48.0	21.4
16740.477500	58.09	74.00	15.91	1000.000	179.0	V	37.0	21.4
16746.008000	53.78	74.00	20.22	1000.000	128.0	H	22.0	21.4

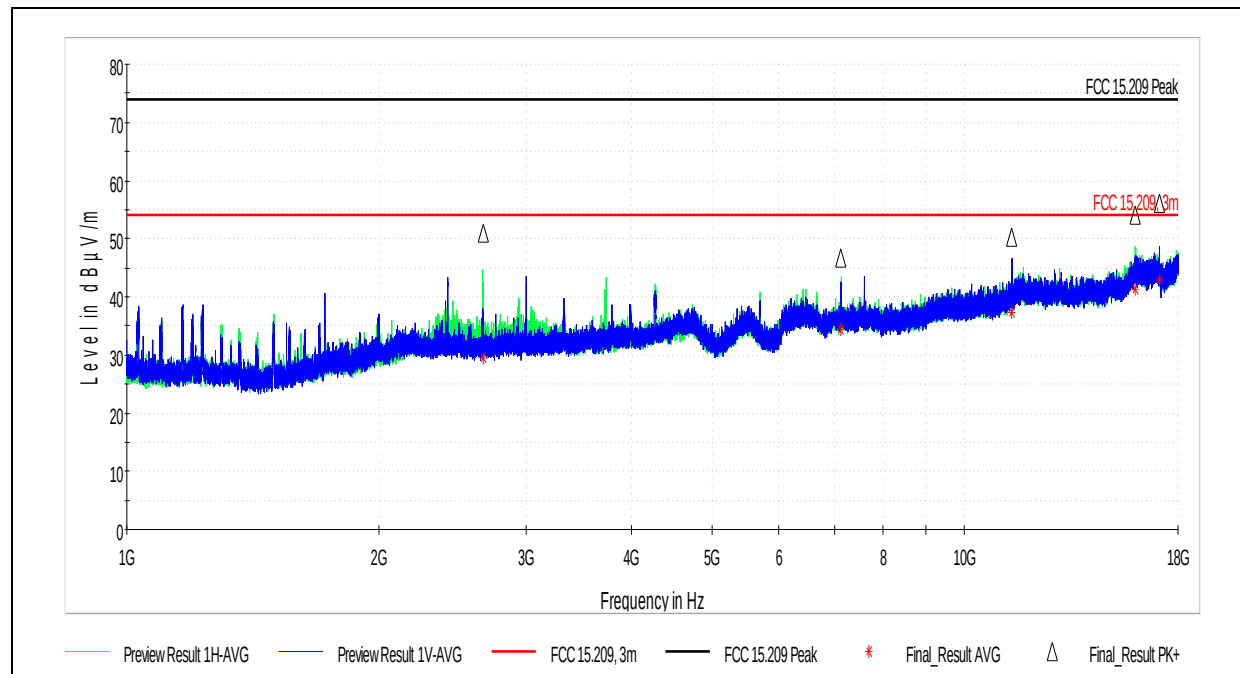
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3004.352500	26.99	54.00	27.01	1000.000	200.0	H	50.0	4.8
6961.520000	32.74	54.00	21.26	1000.000	200.0	V	23.0	10.1
11159.039000	37.87	54.00	16.13	1000.000	133.0	V	0.0	15.5
16737.096500	42.03	54.00	11.97	1000.000	134.0	V	48.0	21.4
16740.477500	44.45	54.00	9.55	1000.000	179.0	V	37.0	21.4
16746.008000	41.46	54.00	12.54	1000.000	128.0	H	22.0	21.4

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT20), U-NII-2C, Ch140, 5700MHz



Final Result PK+

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2663.878500	50.94	74.00	23.06	1000.000	161.0	H	0.0	4.0
7121.980000	46.76	74.00	27.24	1000.000	129.0	H	50.0	10.2
11398.283000	50.23	74.00	23.77	1000.000	152.0	V	50.0	15.7
15985.111500	54.11	74.00	19.89	1000.000	164.0	V	0.0	20.7
17104.921000	56.09	74.00	17.91	1000.000	127.0	H	40.0	21.2

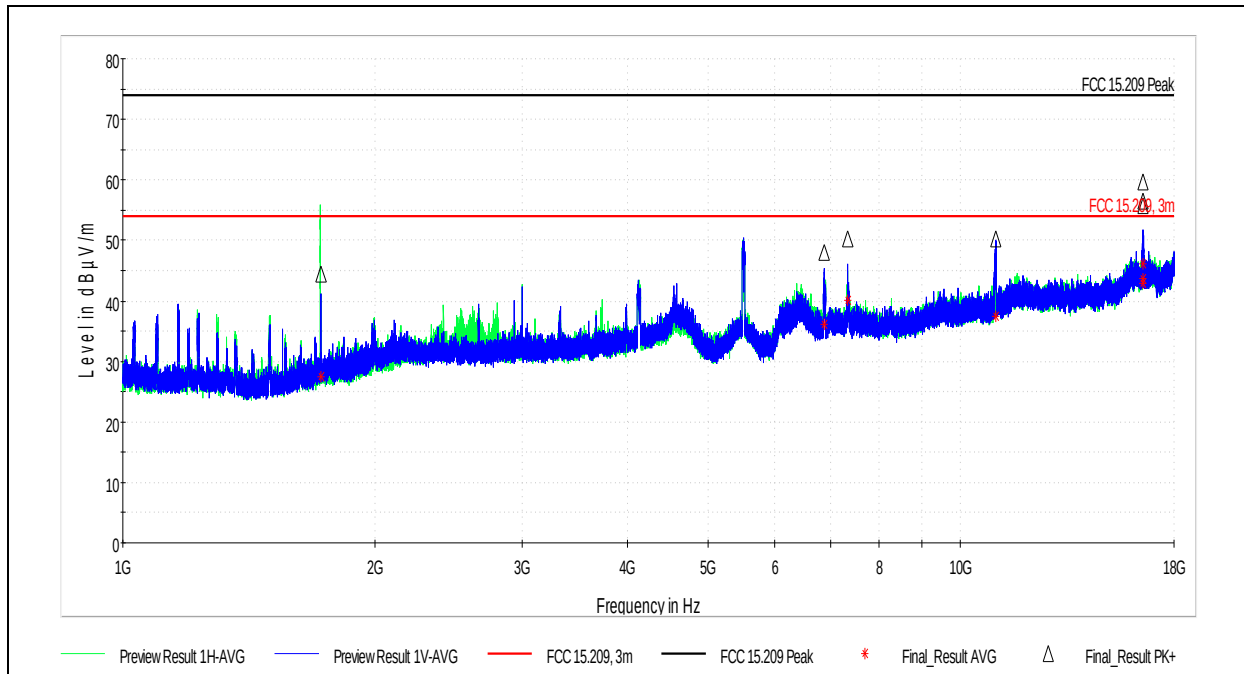
Final Result AVG

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2663.878500	29.58	54.00	24.42	1000.000	161.0	H	0.0	4.0
7121.980000	34.36	54.00	19.64	1000.000	129.0	H	50.0	10.2
11398.283000	37.23	54.00	16.77	1000.000	152.0	V	50.0	15.7
15985.111500	41.28	54.00	12.72	1000.000	164.0	V	0.0	20.7
17104.921000	42.92	54.00	11.08	1000.000	127.0	H	40.0	21.2

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT40), U-NII-2C, Ch102, 5510MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1725.165500	44.37	74.00	29.63	1000.000	177.0	H	-10.0	-0.2
6881.052000	48.07	74.00	25.93	1000.000	200.0	V	38.0	10.0
7346.873500	50.27	74.00	23.73	1000.000	200.0	H	-10.0	10.5
11018.189000	50.19	74.00	23.81	1000.000	176.0	V	24.0	15.3
16517.829500	59.72	74.00	14.28	1000.000	171.0	V	-10.0	20.9
16528.029500	56.50	74.00	17.50	1000.000	250.0	V	206.0	20.9
16529.913500	55.71	74.00	18.29	1000.000	135.0	H	0.0	20.9

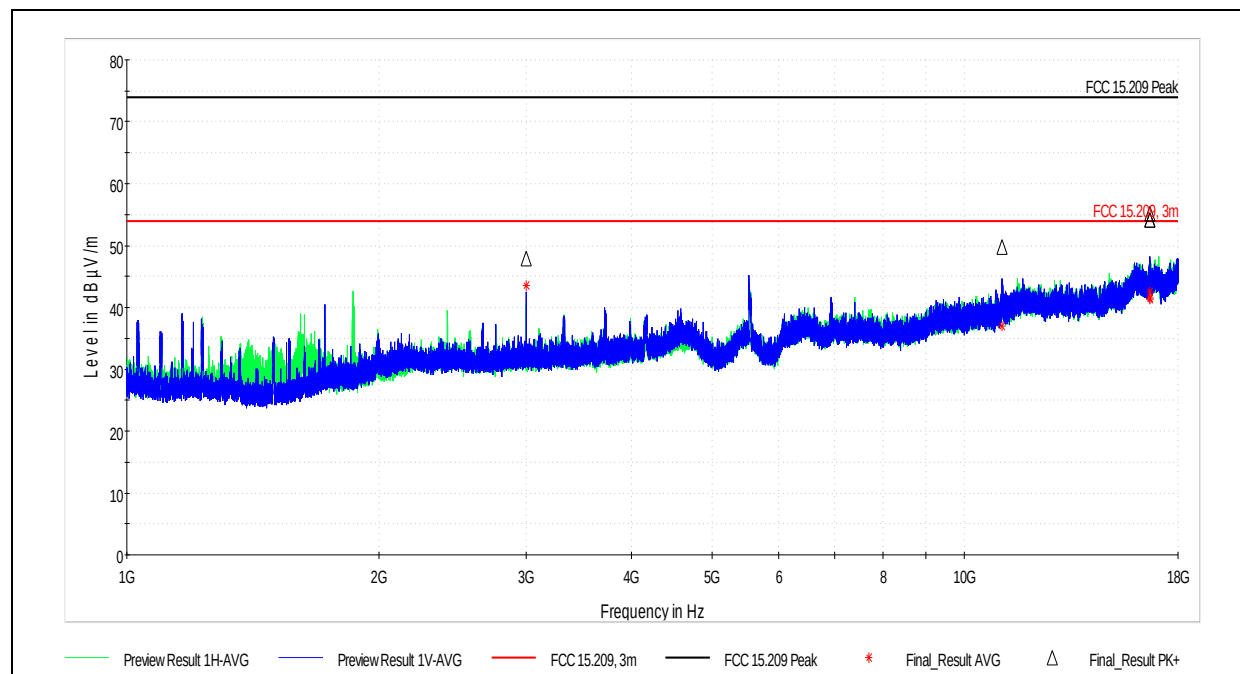
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1725.165500	27.55	54.00	26.45	1000.000	177.0	H	-10.0	-0.2
6881.052000	36.14	54.00	17.86	1000.000	200.0	V	38.0	10.0
7346.873500	40.02	54.00	13.98	1000.000	200.0	H	-10.0	10.5
11018.189000	37.44	54.00	16.56	1000.000	176.0	V	24.0	15.3
16517.829500	46.13	54.00	7.87	1000.000	171.0	V	-10.0	20.9
16528.029500	43.66	54.00	10.34	1000.000	250.0	V	206.0	20.9
16529.913500	42.91	54.00	11.09	1000.000	135.0	H	0.0	20.9

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT40), U-NII-2C, Ch110, 5550MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3000.009000	47.98	74.00	26.02	1000.000	200.0	V	21.0	4.8
11099.699000	49.79	74.00	24.21	1000.000	179.0	V	0.0	15.4
16649.936000	54.19	74.00	19.81	1000.000	130.0	H	22.0	21.6
16651.643000	54.20	74.00	19.80	1000.000	154.0	V	90.0	21.5
16662.018500	55.11	74.00	18.89	1000.000	144.0	V	29.0	21.5

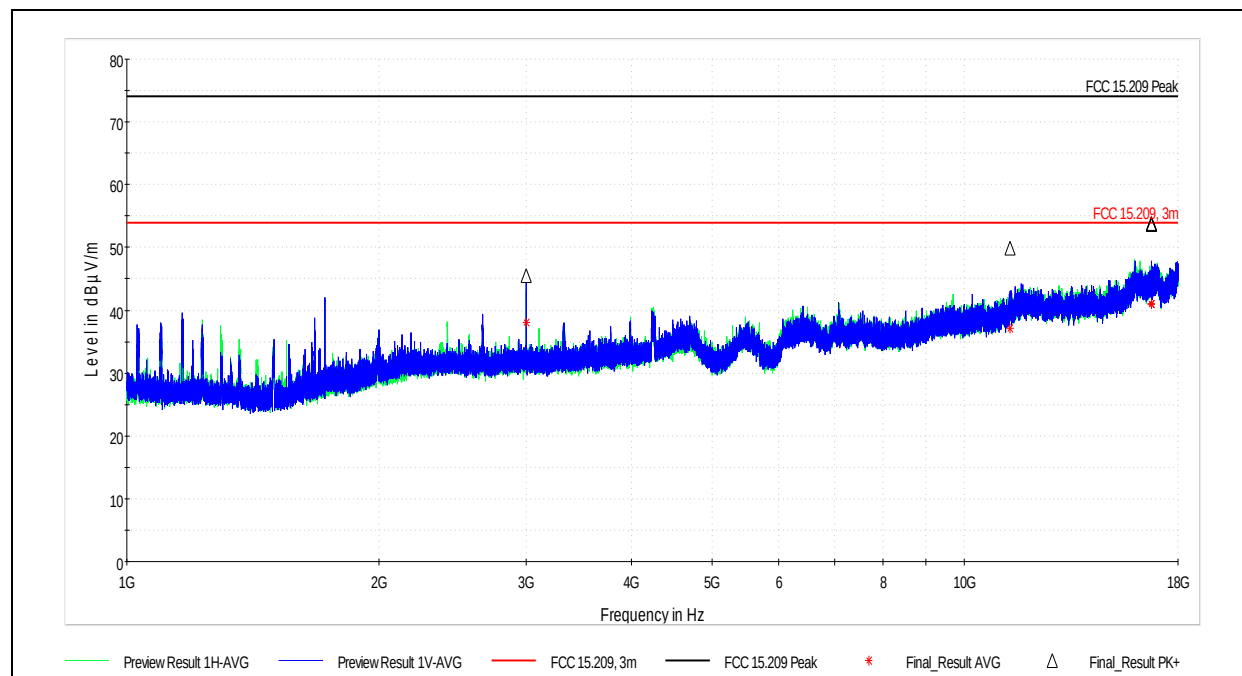
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3000.009000	43.45	54.00	10.55	1000.000	200.0	V	21.0	4.8
11099.699000	36.97	54.00	17.03	1000.000	179.0	V	0.0	15.4
16649.936000	41.30	54.00	12.70	1000.000	130.0	H	22.0	21.6
16651.643000	41.43	54.00	12.57	1000.000	154.0	V	90.0	21.5
16662.018500	42.53	54.00	11.47	1000.000	144.0	V	29.0	21.5

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11n(HT40), U-NII-2C, Ch134, 5670MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2999.909000	45.51	74.00	28.49	1000.000	200.0	H	27.0	4.8
11346.483000	49.93	74.00	24.07	1000.000	134.0	V	38.0	15.5
16730.103000	53.87	74.00	20.13	1000.000	187.0	V	50.0	21.4
16736.382000	53.63	74.00	20.37	1000.000	176.0	V	50.0	21.4
16742.124000	53.62	74.00	20.38	1000.000	200.0	H	50.0	21.4

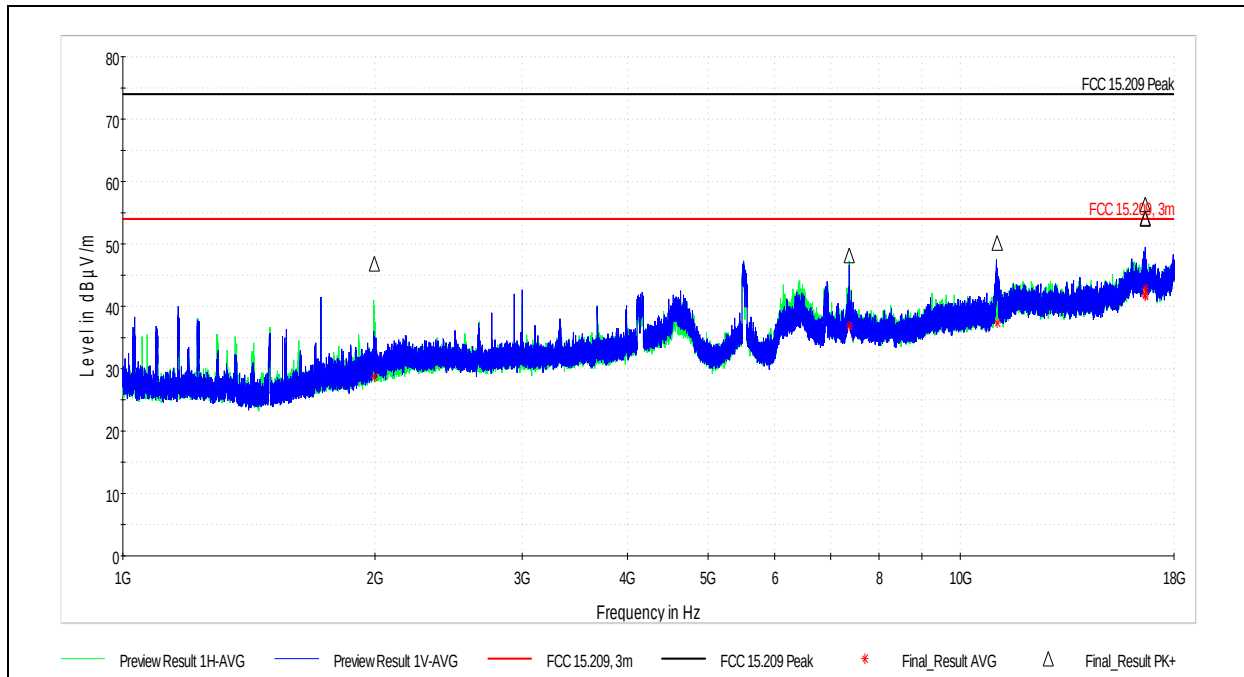
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2999.909000	38.05	54.00	15.95	1000.000	200.0	H	27.0	4.8
11346.483000	37.11	54.00	16.89	1000.000	134.0	V	38.0	15.5
16730.103000	41.06	54.00	12.94	1000.000	187.0	V	50.0	21.4
16736.382000	41.05	54.00	12.95	1000.000	176.0	V	50.0	21.4
16742.124000	41.02	54.00	12.98	1000.000	200.0	H	50.0	21.4

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11ac(VHT80), U-NII-2C, Ch106, 5530MHz



Final Result PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1995.916666	46.89	74.00	27.11	1000.000	189.0	H	50.0	1.8
7373.552000	48.15	74.00	25.85	1000.000	162.0	V	50.0	10.6
11059.513500	50.20	74.00	23.80	1000.000	172.0	V	17.0	15.4
16618.195500	53.93	74.00	20.07	1000.000	157.0	H	18.0	21.5
16619.125500	56.40	74.00	17.60	1000.000	161.0	V	0.0	21.5
16623.577500	54.17	74.00	19.83	1000.000	161.0	V	57.0	21.6

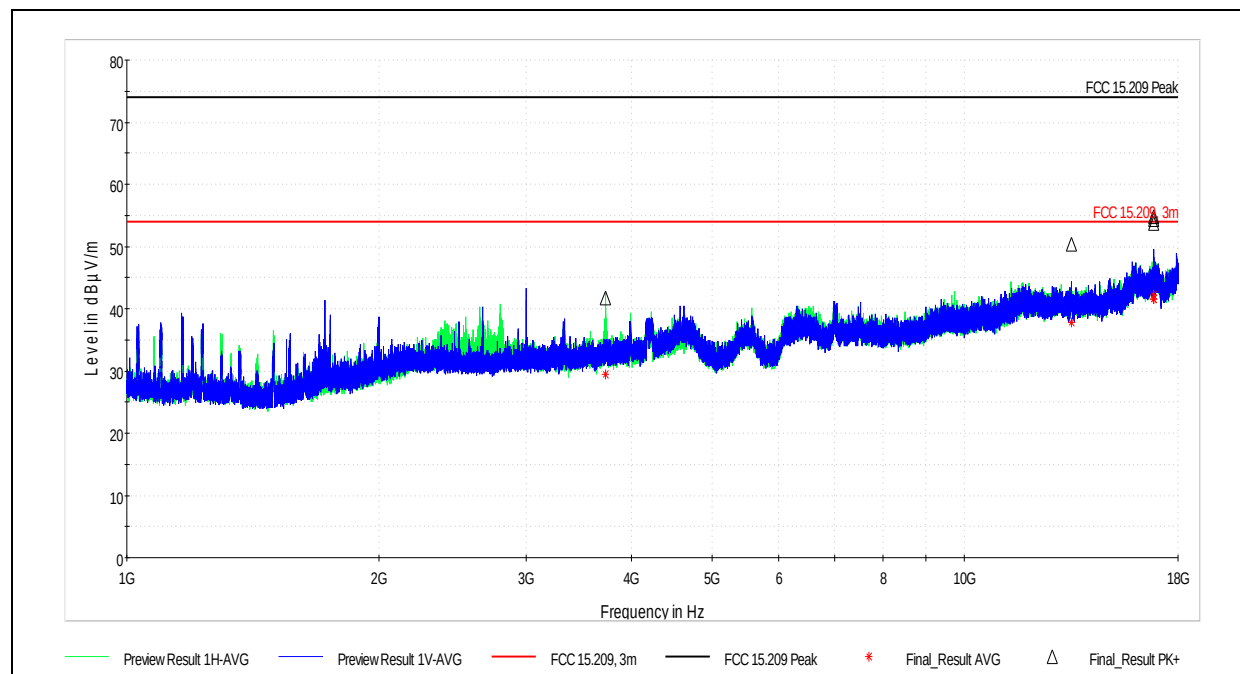
Final Result AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1995.916666	28.66	54.00	25.34	1000.000	189.0	H	50.0	1.8
7373.552000	36.81	54.00	17.19	1000.000	162.0	V	50.0	10.6
11059.513500	37.39	54.00	16.61	1000.000	172.0	V	17.0	15.4
16618.195500	41.64	54.00	12.36	1000.000	157.0	H	18.0	21.5
16619.125500	42.79	54.00	11.21	1000.000	161.0	V	0.0	21.5
16623.577500	41.82	54.00	12.18	1000.000	161.0	V	57.0	21.6

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11ac(VHT80), U-NII-2C, Ch122, 5610MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3725.430500	41.75	74.00	32.25	1000.000	200.0	V	50.0	5.8
13426.717500	50.35	74.00	23.65	1000.000	180.0	H	0.0	16.8
16827.016000	54.84	74.00	19.16	1000.000	250.0	V	171.0	21.6
16829.375500	53.76	74.00	20.24	1000.000	135.0	H	22.0	21.6
16834.159000	54.35	74.00	19.65	1000.000	133.0	V	14.0	21.6

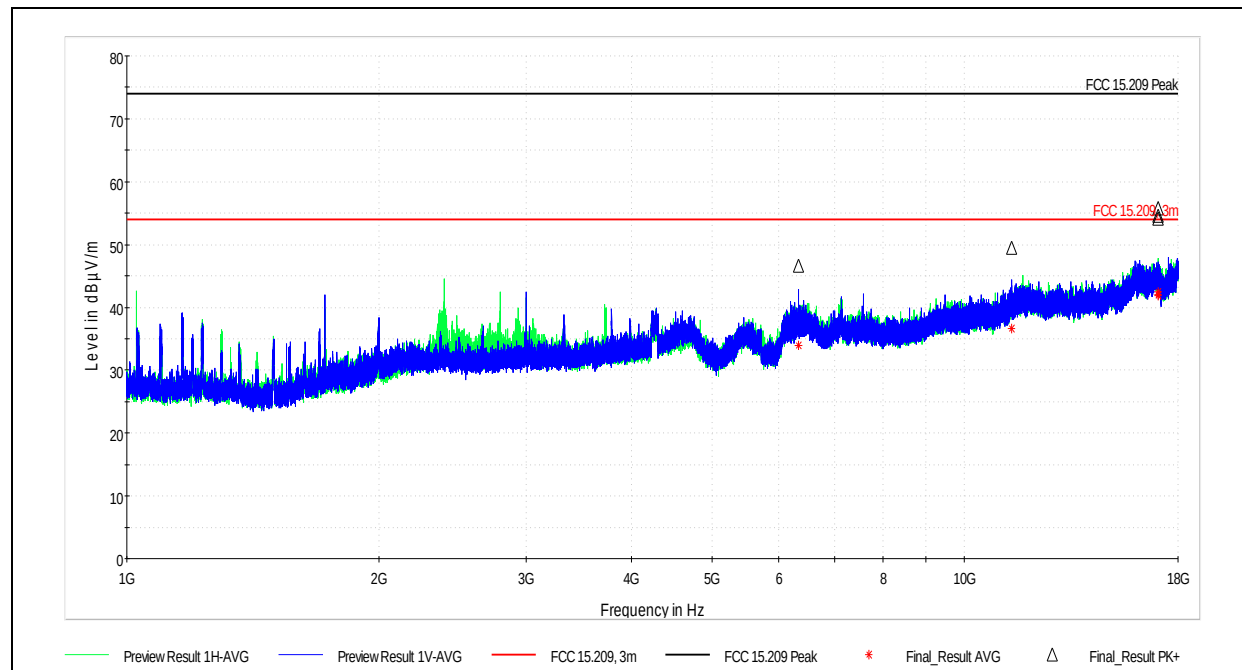
Final_Result_AVG

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3725.430500	29.40	54.00	24.60	1000.000	200.0	V	50.0	5.8
13426.717500	37.83	54.00	16.17	1000.000	180.0	H	0.0	16.8
16827.016000	42.19	54.00	11.81	1000.000	250.0	V	171.0	21.6
16829.375500	41.56	54.00	12.44	1000.000	135.0	H	22.0	21.6
16834.159000	41.56	54.00	12.44	1000.000	133.0	V	14.0	21.6

U-NII-2C Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11ac(VHT80), U-NII-2C, Ch138, 5690MHz



Final Result_PK+

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6345.492000	46.71	74.00	27.29	1000.000	133.0	H	28.0	10.0
11396.986000	49.44	74.00	24.56	1000.000	131.0	V	50.0	15.7
17048.998000	54.16	74.00	19.84	1000.000	164.0	H	50.0	21.4
17053.558000	55.85	74.00	18.15	1000.000	200.0	V	35.0	21.4
17054.471500	54.63	74.00	19.37	1000.000	250.0	H	284.0	21.4

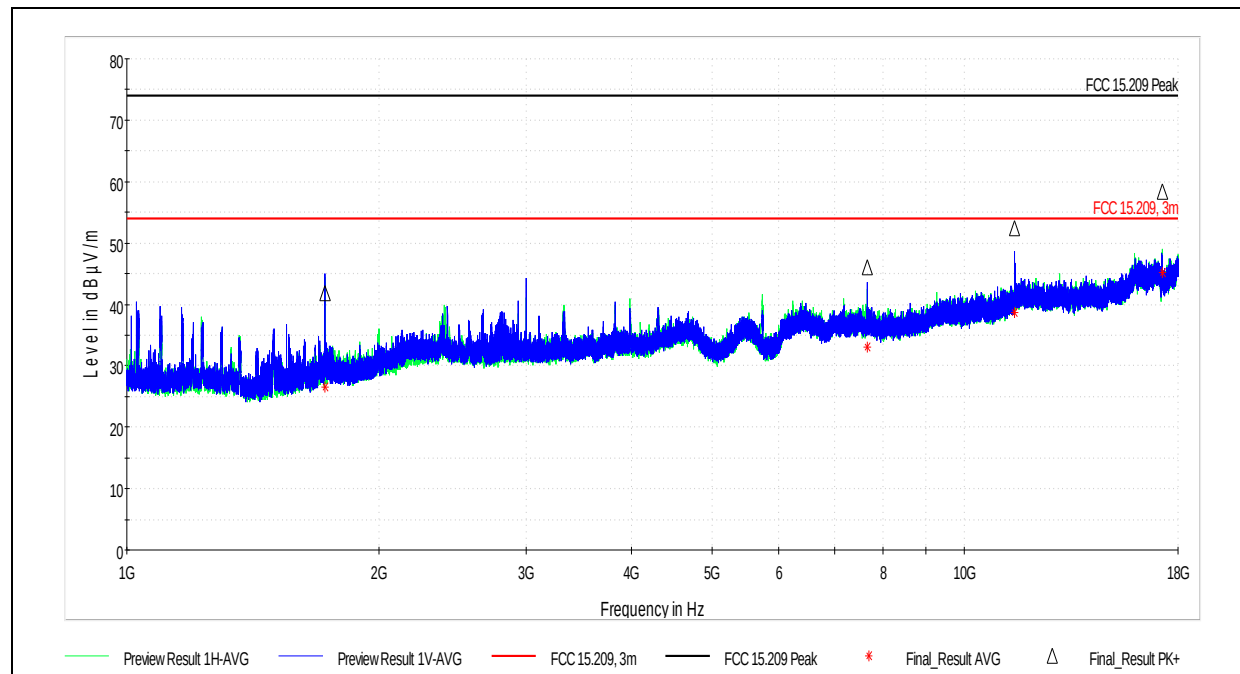
Final Result_AVG

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6345.492000	33.97	54.00	20.03	1000.000	133.0	H	28.0	10.0
11396.986000	36.57	54.00	17.43	1000.000	131.0	V	50.0	15.7
17048.998000	41.87	54.00	12.13	1000.000	164.0	H	50.0	21.4
17053.558000	42.54	54.00	11.46	1000.000	200.0	V	35.0	21.4
17054.471500	41.97	54.00	12.03	1000.000	250.0	H	284.0	21.4

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-3, Ch149, 5745MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.901500	41.76	74.00	32.24	1000.000	200.0	V	50.0	-0.2
7664.872500	46.15	74.00	27.85	1000.000	152.0	V	50.0	10.8
11492.048000	52.33	74.00	21.67	1000.000	172.0	V	13.0	15.9
17235.444000	58.45	74.00	15.55	1000.000	127.0	H	40.0	21.0

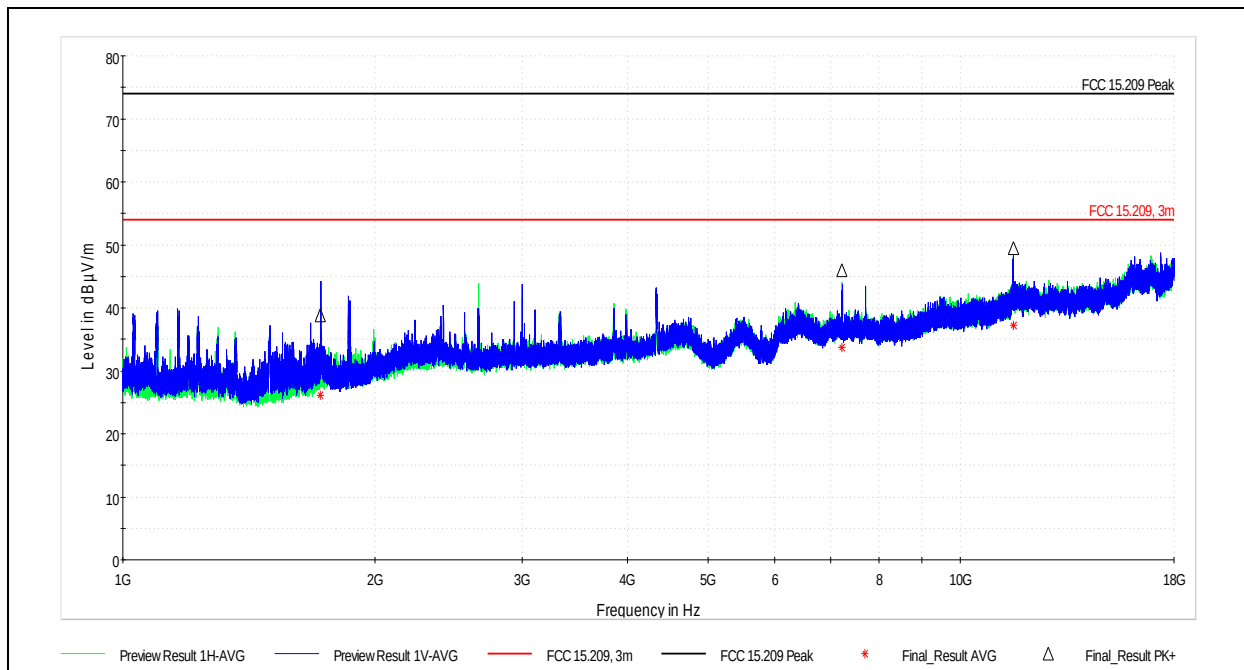
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.901500	26.63	54.00	27.37	1000.000	200.0	V	50.0	-0.2
7664.872500	33.14	54.00	20.86	1000.000	152.0	V	50.0	10.8
11492.048000	38.65	54.00	15.35	1000.000	172.0	V	13.0	15.9
17235.444000	45.11	54.00	8.89	1000.000	127.0	H	40.0	21.0

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-3, Ch157



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1720.645000	38.83	74.00	35.17	1000.000	175.0	V	29.0	-0.2
7226.973500	46.05	74.00	27.95	1000.000	159.0	V	50.0	10.4
11576.421000	49.55	74.00	24.45	1000.000	165.0	V	50.0	16.2

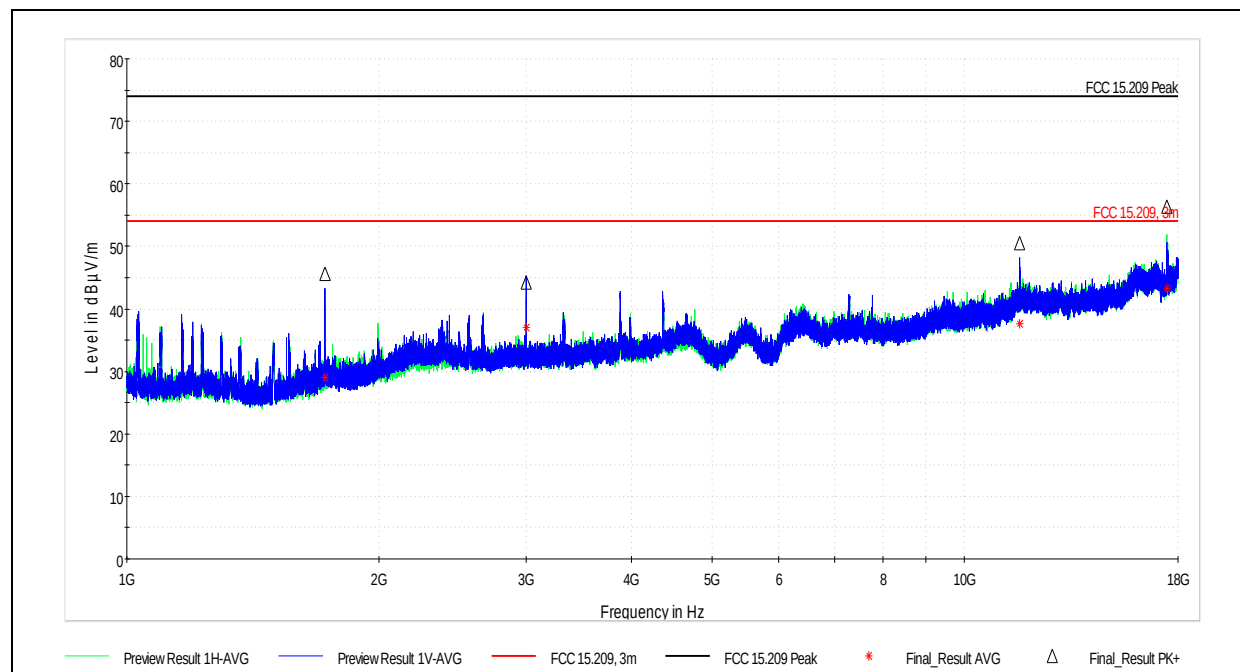
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1720.645000	26.06	54.00	27.94	1000.000	175.0	V	29.0	-0.2
7226.973500	33.76	54.00	20.24	1000.000	159.0	V	50.0	10.4
11576.421000	37.25	54.00	16.75	1000.000	165.0	V	50.0	16.2

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/13/2017
 Temp/Humidity/Pressure: 25.1C/48.2%/985.4mbar
 Comment: 802.11a, U-NII-3, Ch165, 5825MHz



Final Result PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.958000	45.65	74.00	28.35	1000.000	200.0	V	12.0	-0.2
2999.791000	44.19	74.00	29.81	1000.000	174.0	V	0.0	4.8
11645.900000	50.50	74.00	23.50	1000.000	177.0	V	23.0	16.4
17471.789500	56.36	74.00	17.64	1000.000	136.0	H	22.0	20.6

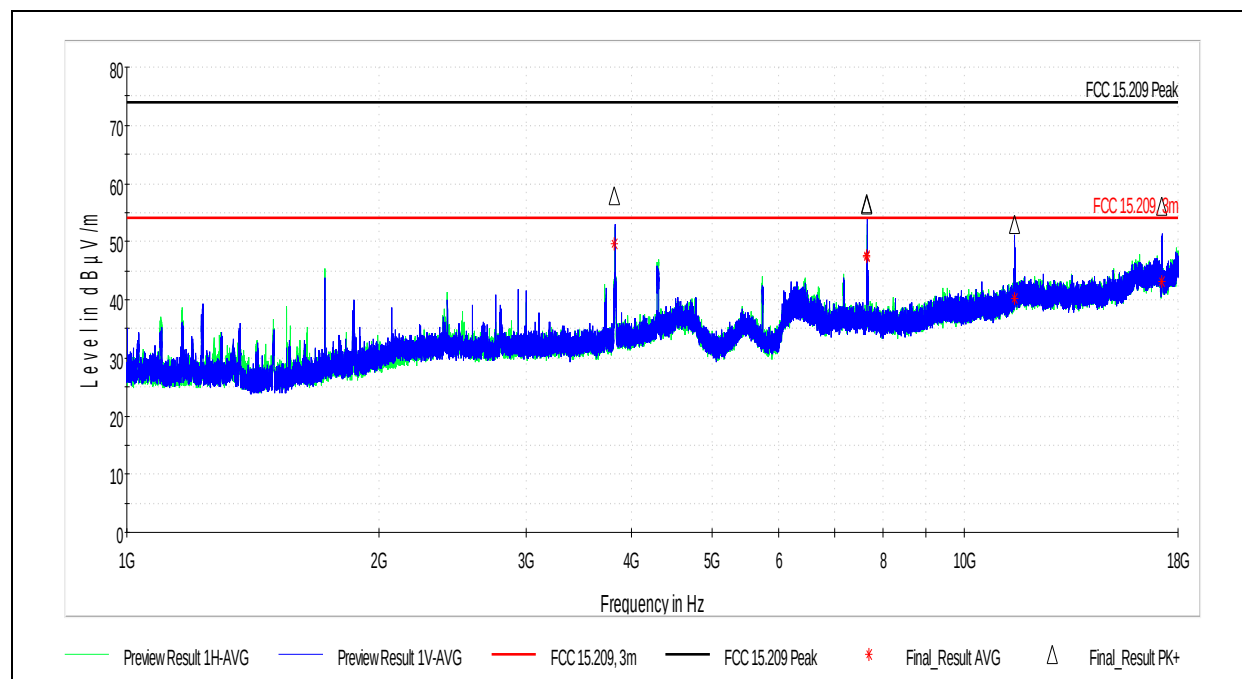
Final Result AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.958000	29.06	54.00	24.94	1000.000	200.0	V	12.0	-0.2
2999.791000	36.98	54.00	17.02	1000.000	174.0	V	0.0	4.8
11645.900000	37.67	54.00	16.33	1000.000	177.0	V	23.0	16.4
17471.789500	43.23	54.00	10.77	1000.000	136.0	H	22.0	20.6

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11n(HT20), U-NII-3, Ch149, 5745MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3824.542500	57.96	74.00	16.04	1000.000	178.0	H	28.0	6.0
7648.141500	56.28	74.00	17.72	1000.000	173.0	H	50.0	10.8
7648.422000	56.49	74.00	17.51	1000.000	173.0	H	50.0	10.8
11476.332500	53.04	74.00	20.96	1000.000	170.0	V	0.0	15.8
17221.397500	56.07	74.00	17.93	1000.000	128.0	H	38.0	21.0

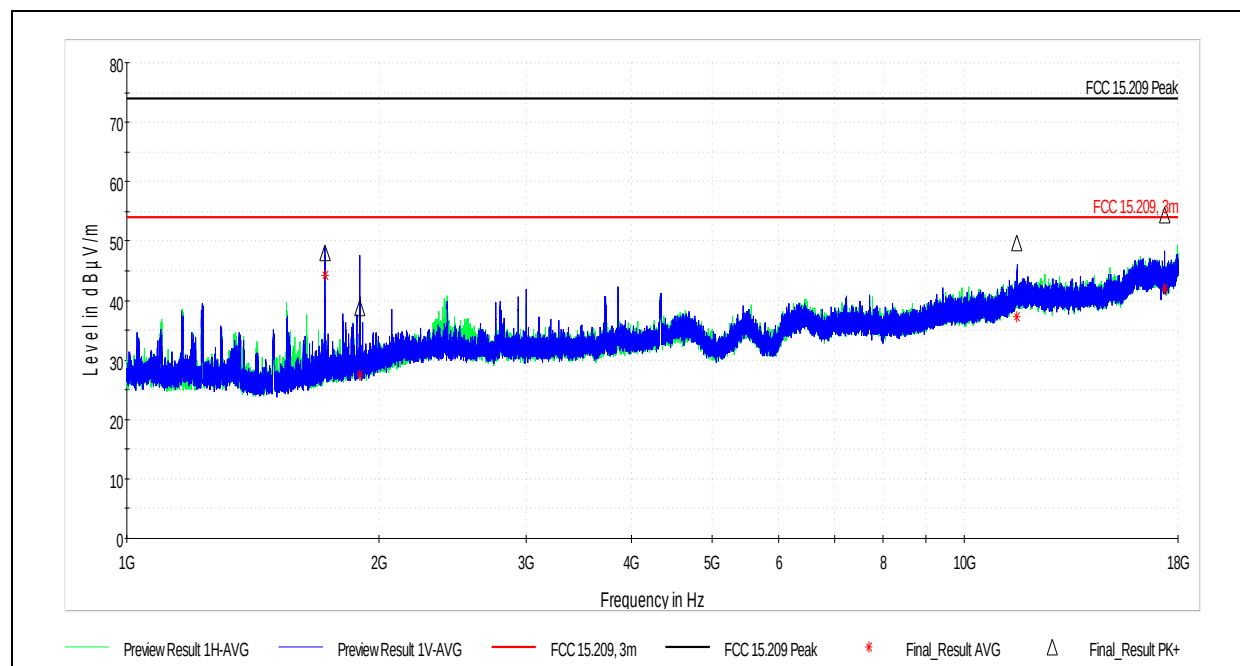
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3824.542500	49.59	54.00	4.41	1000.000	178.0	H	28.0	6.0
7648.141500	47.57	54.00	6.43	1000.000	173.0	H	50.0	10.8
7648.422000	47.33	54.00	6.67	1000.000	173.0	H	50.0	10.8
11476.332500	40.15	54.00	13.85	1000.000	170.0	V	0.0	15.8
17221.397500	43.20	54.00	10.80	1000.000	128.0	H	38.0	21.0

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11n(HT20), U-NII-3, Ch157, 5785MHz



Final Result PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.812500	48.02	74.00	25.98	1000.000	178.0	H	0.0	-0.2
1897.433000	38.77	74.00	35.23	1000.000	161.0	H	-10.0	1.1
11563.653500	49.71	74.00	24.29	1000.000	136.0	V	32.0	16.1
17354.919000	54.42	74.00	19.58	1000.000	100.0	H	50.0	20.6

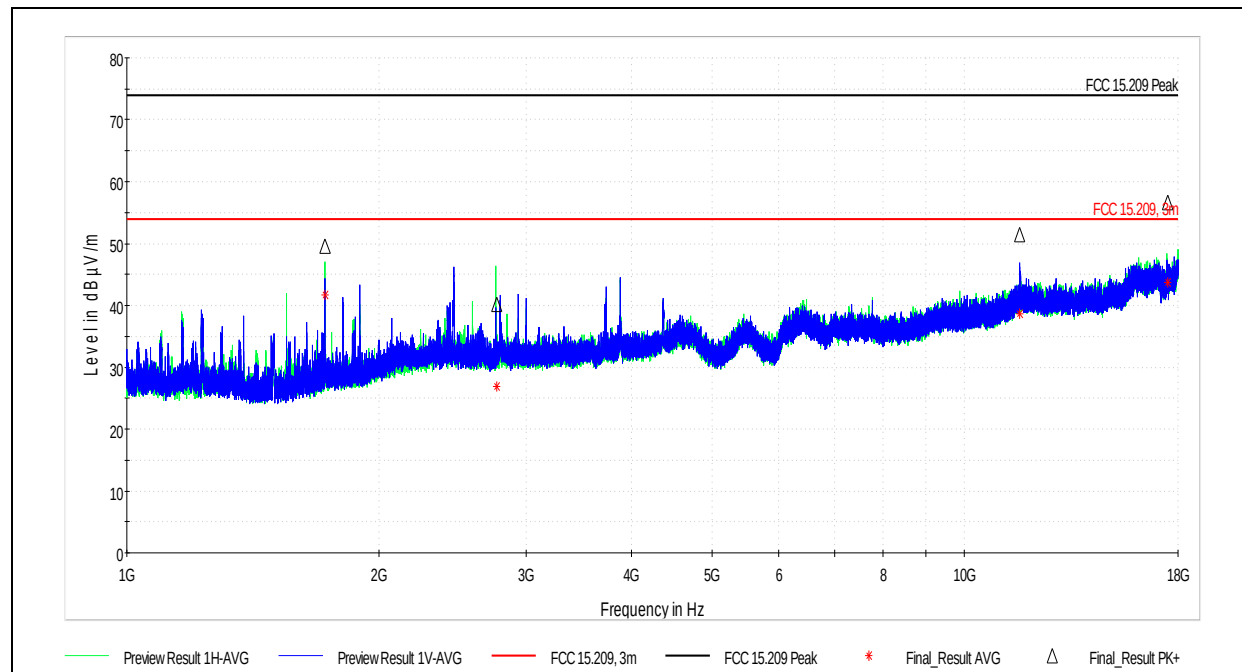
Final Result AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.812500	44.16	54.00	9.84	1000.000	178.0	H	0.0	-0.2
1897.433000	27.53	54.00	26.47	1000.000	161.0	H	-10.0	1.1
11563.653500	37.20	54.00	16.80	1000.000	136.0	V	32.0	16.1
17354.919000	41.99	54.00	12.01	1000.000	100.0	H	50.0	20.6

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11n(HT20), U-NII-3, Ch165, 5825MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.992000	49.50	74.00	24.50	1000.000	166.0	H	26.0	-0.2
2764.763000	40.12	74.00	33.88	1000.000	148.0	H	34.0	4.2
11652.012500	51.35	74.00	22.65	1000.000	175.0	V	50.0	16.5
17478.419500	56.69	74.00	17.31	1000.000	140.0	H	38.0	20.6

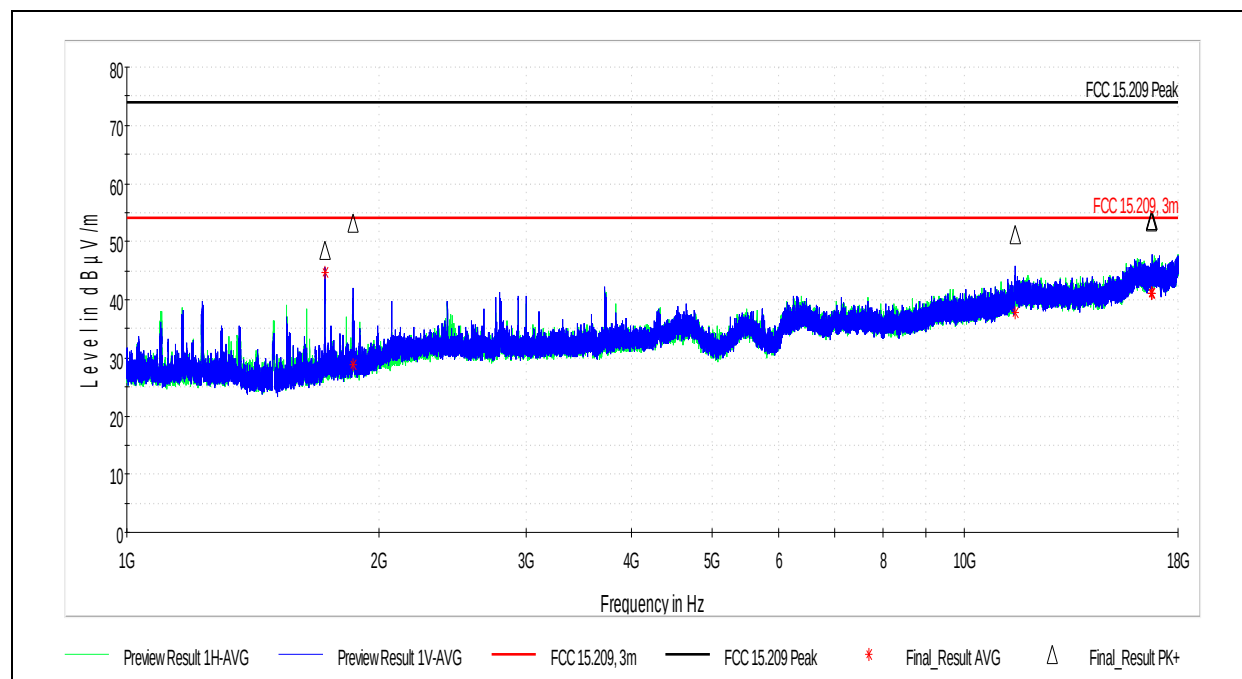
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.992000	41.65	54.00	12.35	1000.000	166.0	H	26.0	-0.2
2764.763000	26.82	54.00	27.18	1000.000	148.0	H	34.0	4.2
11652.012500	38.67	54.00	15.33	1000.000	175.0	V	50.0	16.5
17478.419500	43.62	54.00	10.38	1000.000	140.0	H	38.0	20.6

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11n(HT40), U-NII-3, Ch151, 5755MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1725.077000	48.54	74.00	25.46	1000.000	174.0	V	50.0	-0.2
1863.539000	53.22	74.00	20.78	1000.000	187.0	H	39.0	0.9
11509.999000	51.14	74.00	22.86	1000.000	169.0	V	28.0	15.9
16740.669000	53.49	74.00	20.51	1000.000	217.0	V	288.0	21.4
16741.653000	53.61	74.00	20.39	1000.000	130.0	V	23.0	21.4
16746.289500	53.56	74.00	20.44	1000.000	174.0	H	50.0	21.4

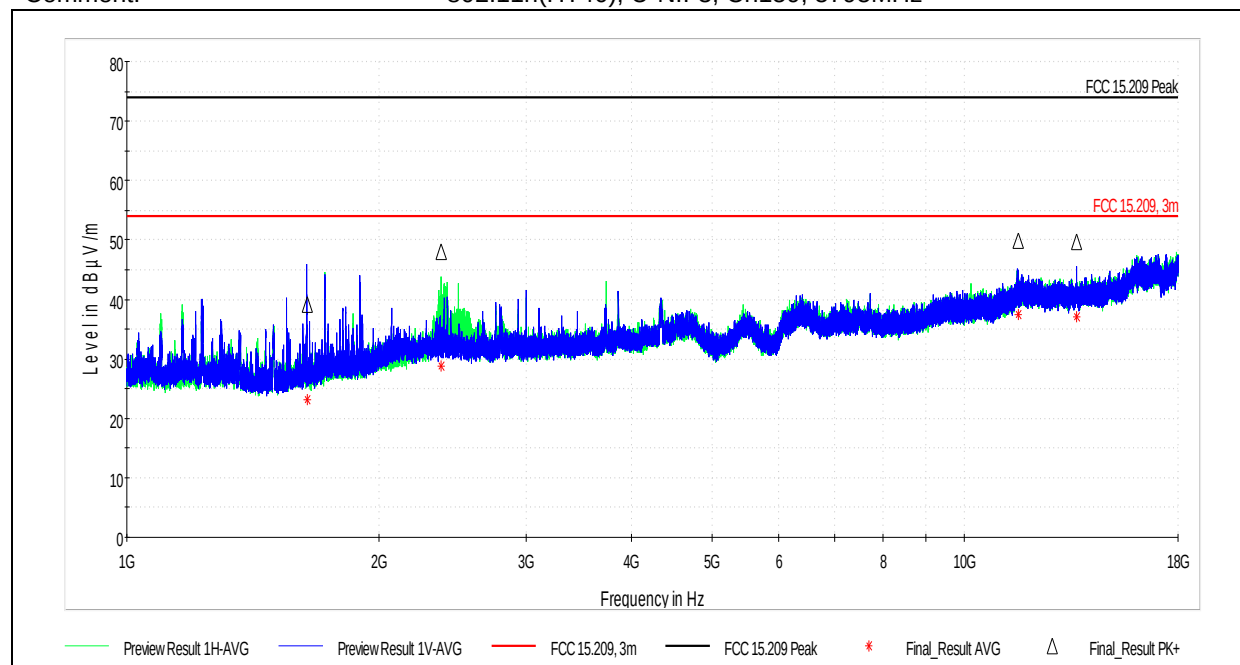
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1725.077000	44.70	54.00	9.30	1000.000	174.0	V	50.0	-0.2
1863.539000	28.86	54.00	25.14	1000.000	187.0	H	39.0	0.9
11509.999000	37.78	54.00	16.22	1000.000	169.0	V	28.0	15.9
16740.669000	41.08	54.00	12.92	1000.000	217.0	V	288.0	21.4
16741.653000	41.06	54.00	12.94	1000.000	130.0	V	23.0	21.4
16746.289500	41.09	54.00	12.91	1000.000	174.0	H	50.0	21.4

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11n(HT40), U-NII-3, Ch159, 5795MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1644.229500	39.21	74.00	34.79	1000.000	200.0	H	50.0	-0.9
2375.725500	48.01	74.00	25.99	1000.000	182.0	H	37.0	3.8
11589.108500	49.90	74.00	24.10	1000.000	200.0	V	50.0	16.2
13628.810500	49.67	74.00	24.33	1000.000	159.0	H	24.0	16.6

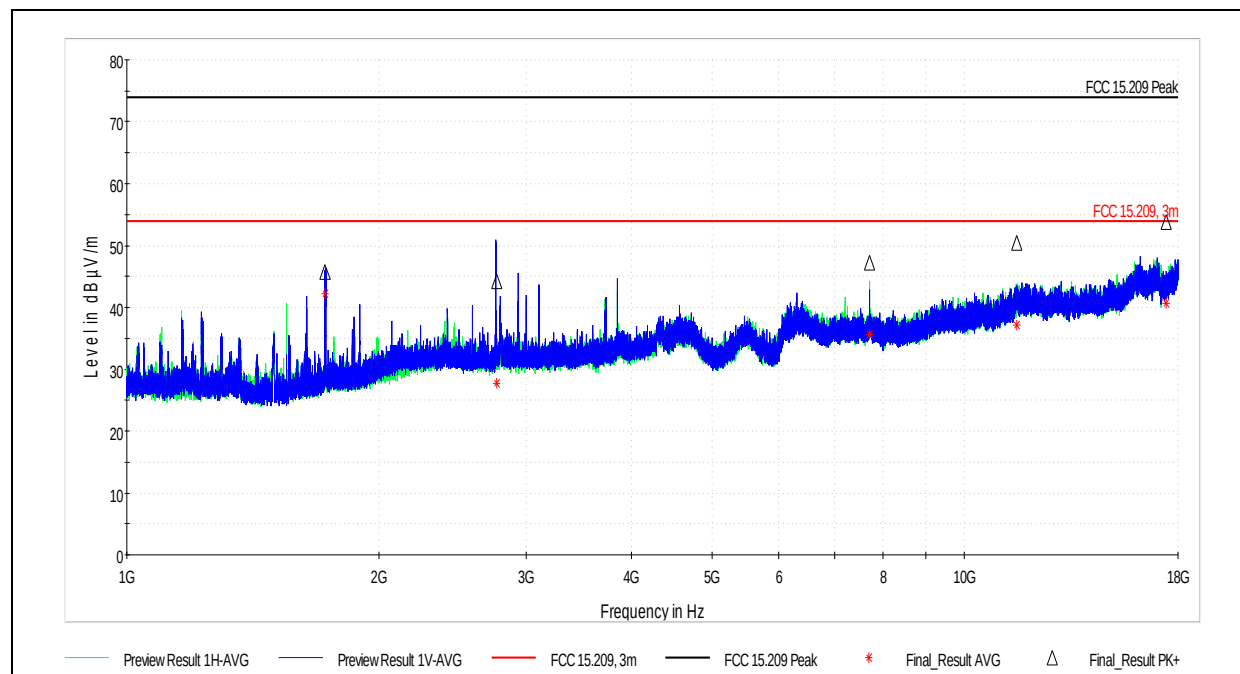
Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1644.229500	23.19	54.00	30.81	1000.000	200.0	H	50.0	-0.9
2375.725500	28.71	54.00	25.29	1000.000	182.0	H	37.0	3.8
11589.108500	37.53	54.00	16.47	1000.000	200.0	V	50.0	16.2
13628.810500	37.02	54.00	16.98	1000.000	159.0	H	24.0	16.6

U-NII-3 Radiated Emission Results

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/16/2017
 Temp/Humidity/Pressure: 22.1C/42.1%/983.4mbar
 Comment: 802.11ac(VHT80), U-NII-3, Ch155, 5775MHz



Final_Result_PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.883500	45.67	74.00	28.33	1000.000	169.0	H	24.0	-0.2
2766.266500	44.15	74.00	29.85	1000.000	200.0	V	50.0	4.2
7700.212000	47.25	74.00	26.75	1000.000	200.0	V	40.0	11.0
11557.365000	50.39	74.00	23.61	1000.000	158.0	V	34.0	16.1
17418.446500	53.76	74.00	20.24	1000.000	169.0	H	50.0	20.5

Final_Result_AVG

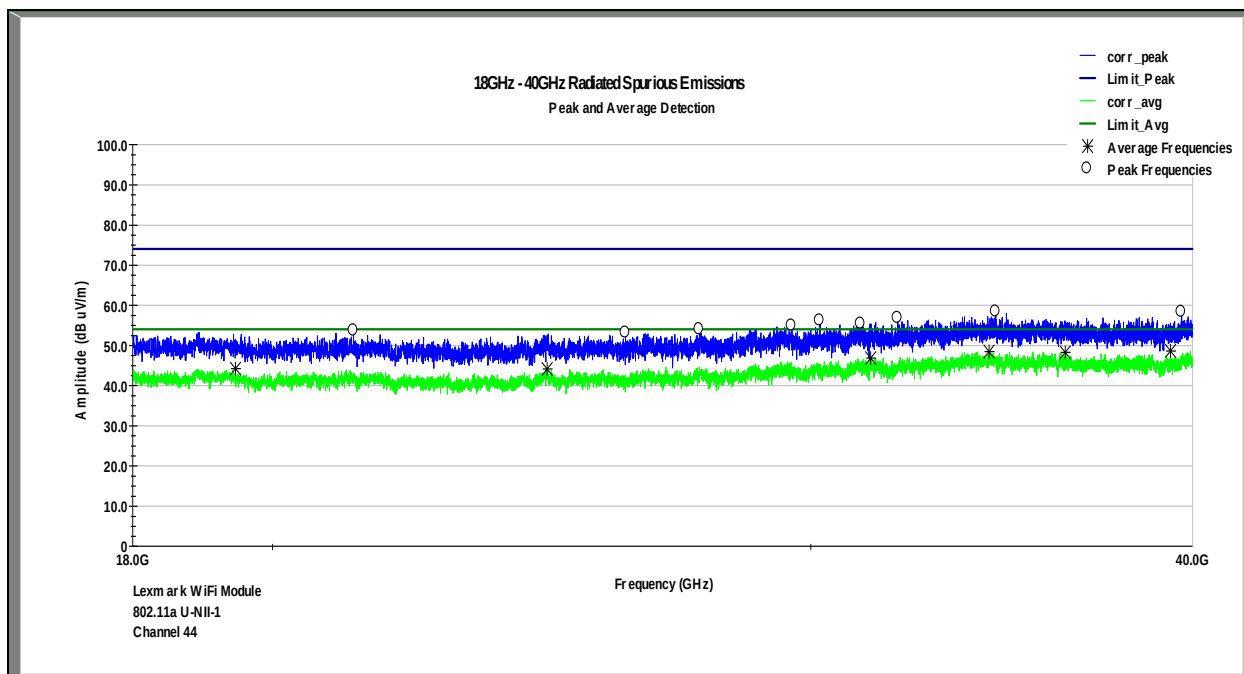
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1724.883500	42.16	54.00	11.84	1000.000	169.0	H	24.0	-0.2
2766.266500	27.73	54.00	26.27	1000.000	200.0	V	50.0	4.2
7700.212000	35.62	54.00	18.38	1000.000	200.0	V	40.0	11.0
11557.365000	37.09	54.00	16.91	1000.000	158.0	V	34.0	16.1
17418.446500	40.61	54.00	13.39	1000.000	169.0	H	50.0	20.5

18 – 40GHz Radiated Emission Results

(Representative of all TX Modes)

EUT Information

EUT Name: Lexmark WiFi Module
 Manufacturer: Lexmark
 Test Engineer: Bryan Taylor
 Date: 10/19/2017
 Temp/Humidity/Pressure: 22.4C/44.9%/995.6mbar
 Comment: 802.11a, U-NII-1, Ch44, 5220MHz



Final_Result_PK+

Frequency (GHz)	Peak (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
21.258 GHz	53.64	74.00	20.36
26.094 GHz	53.07	74.00	20.93
27.588 GHz	53.92	74.00	20.08
29.574 GHz	54.85	74.00	19.15
30.210 GHz	56.12	74.00	17.88
31.156 GHz	55.29	74.00	18.71
32.034 GHz	56.78	74.00	17.22
34.489 GHz	58.36	74.00	15.64
39.670 GHz	58.25	74.00	15.75

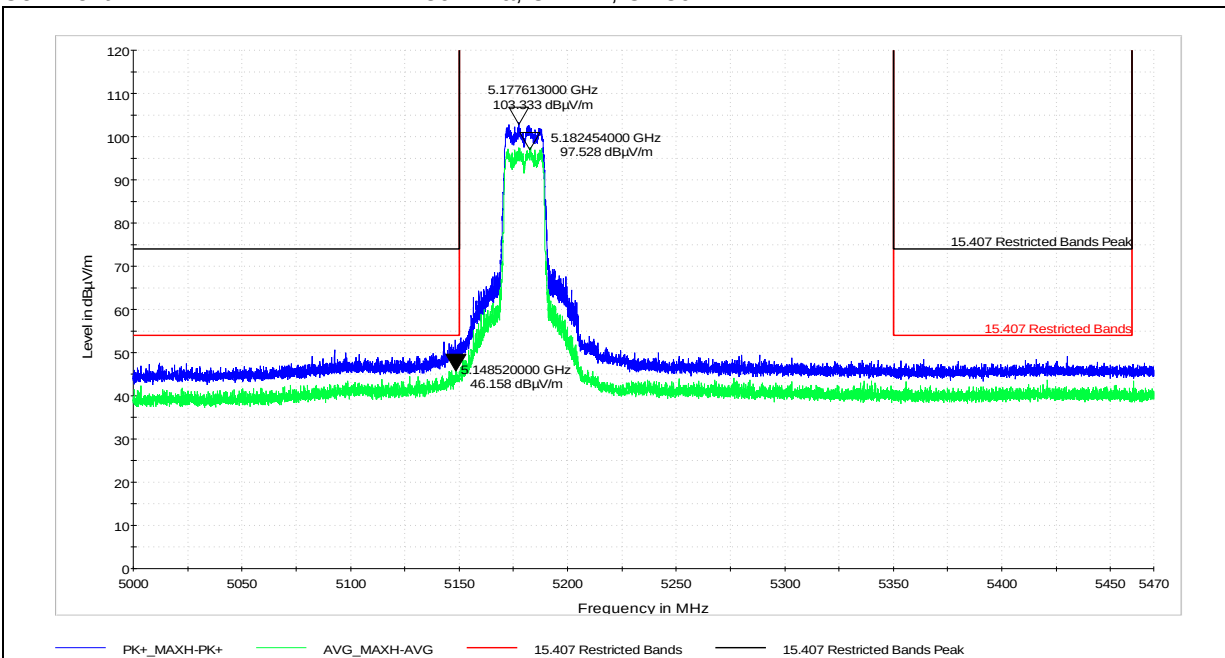
Final_Result_AVG

Frequency (GHz)	Average (dBuV/m)	Limit (dBuV/m)	Average Margin (dB)
19.448 GHz	44.24	54.00	29.76
24.596 GHz	44.15	54.00	29.85
31.387 GHz	46.86	54.00	27.14
34.313 GHz	48.51	54.00	25.49
36.339 GHz	48.30	54.00	25.70
39.340 GHz	48.63	54.00	25.37

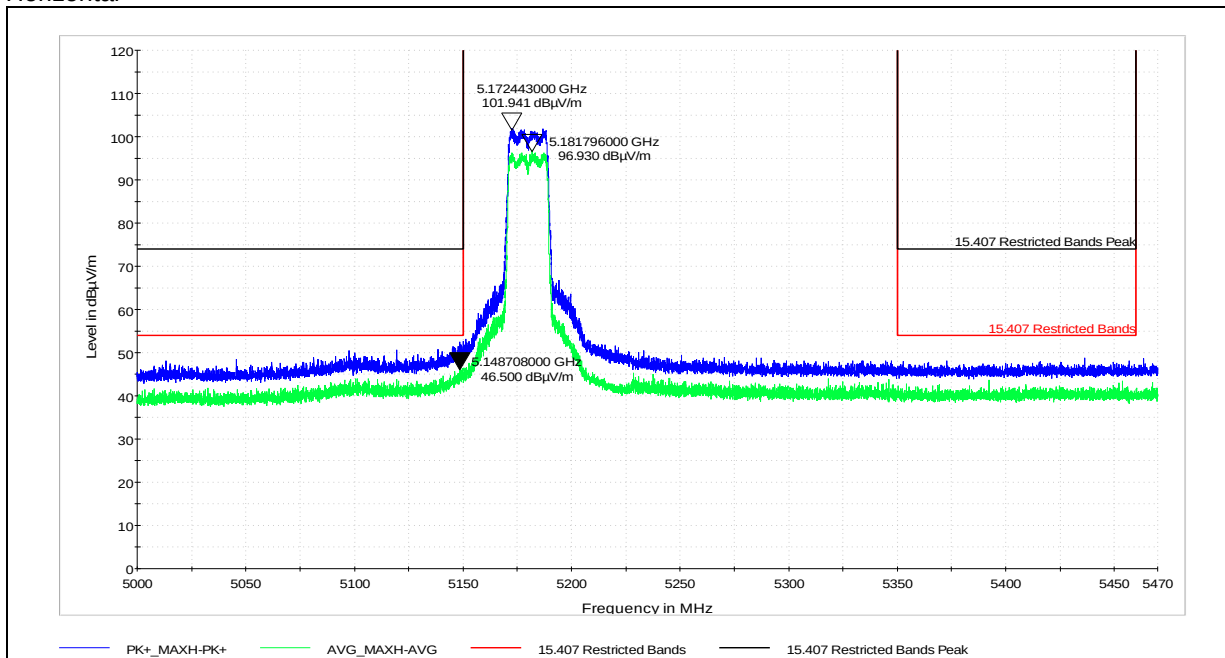
U-NII-1 Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11a, U-NII-1, Ch 36



Horizontal

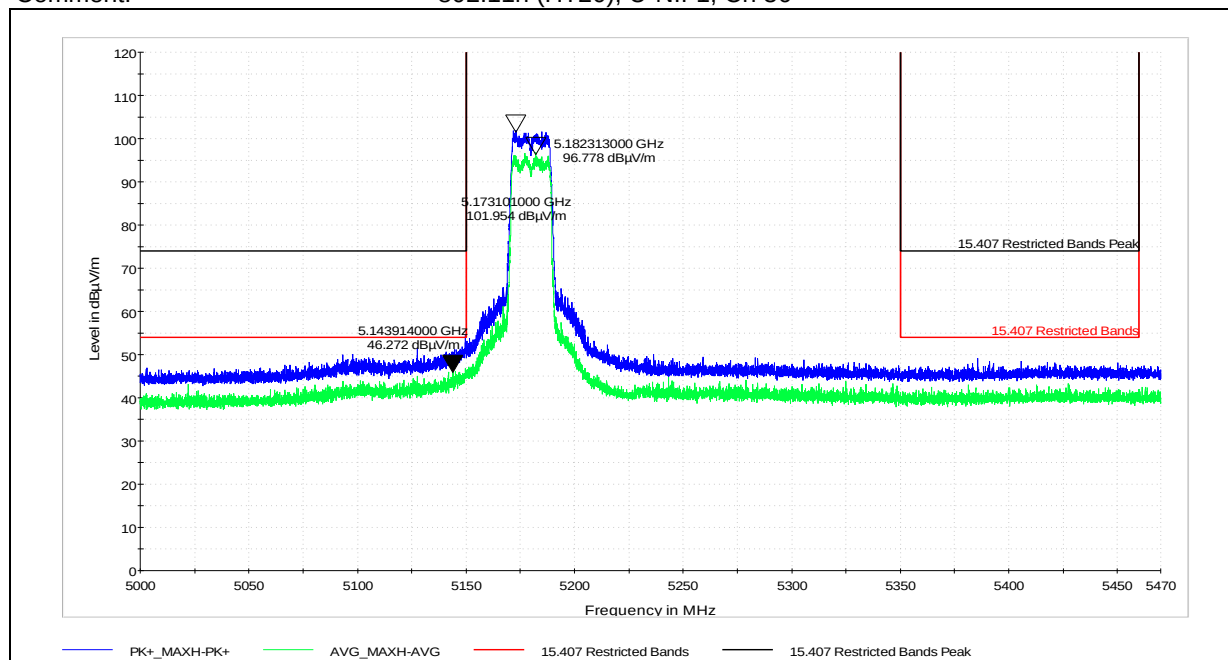


Vertical

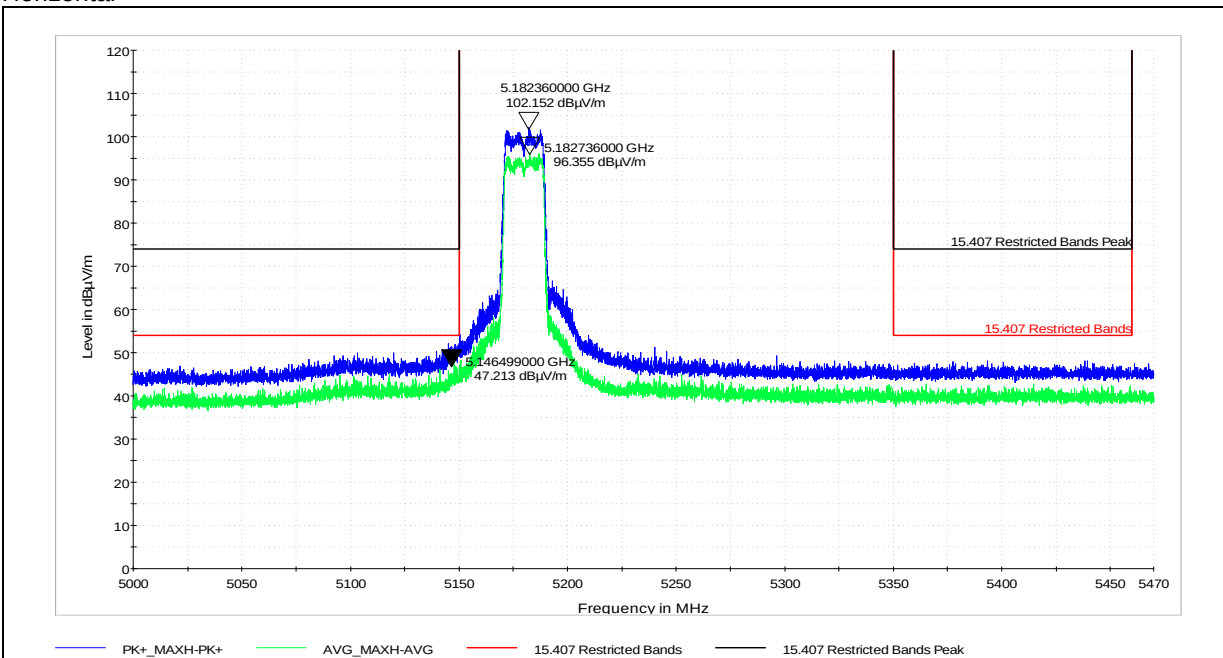
U-NII-1 Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11n (HT20), U-NII-1, Ch 36



Horizontal

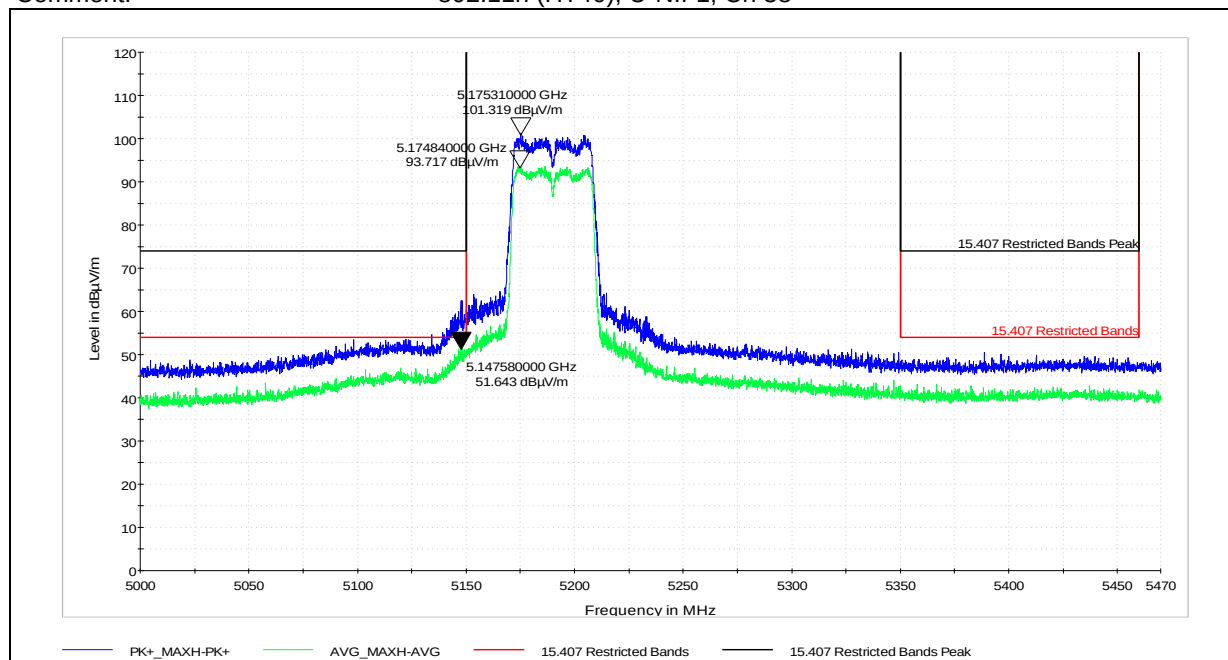


Vertical

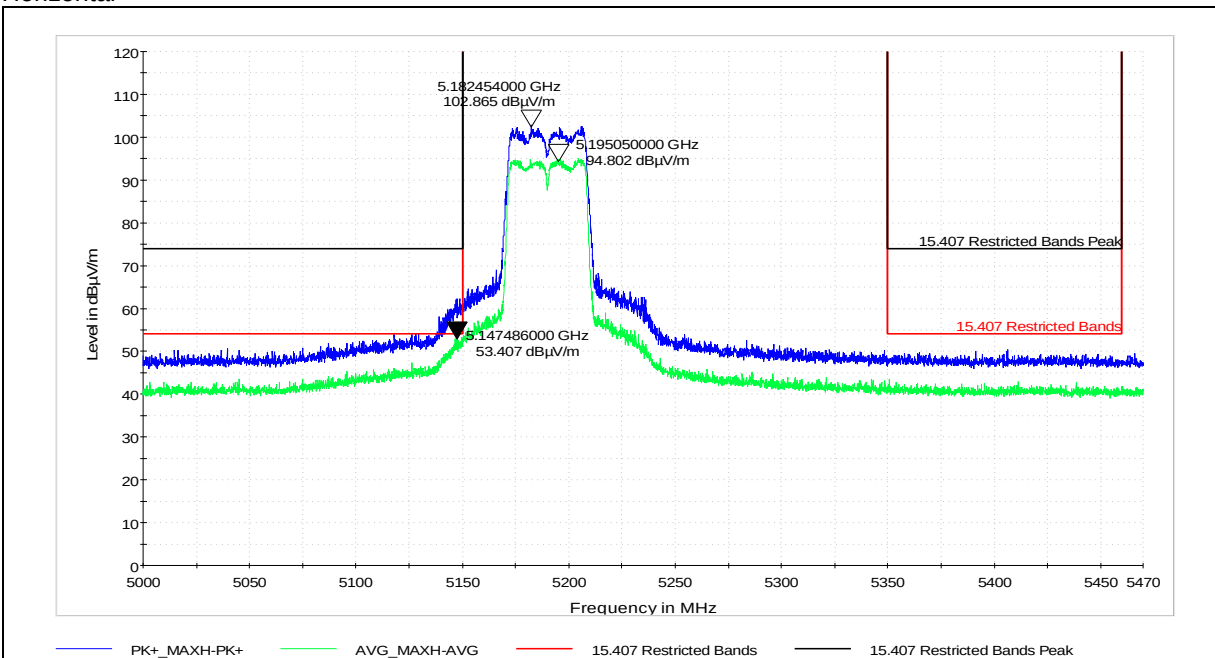
U-NII-1 Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11n (HT40), U-NII-1, Ch 38



Horizontal

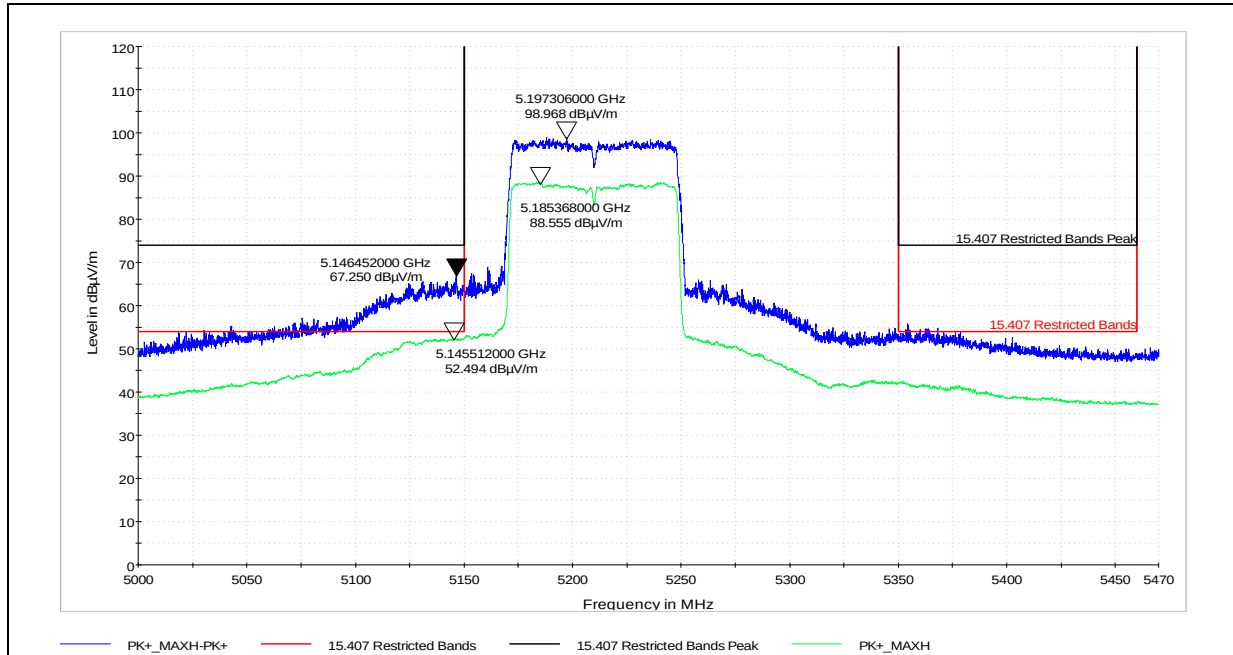


Vertical

U-NII-1 Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11ac (VHT80), U-NII-1, Ch 42

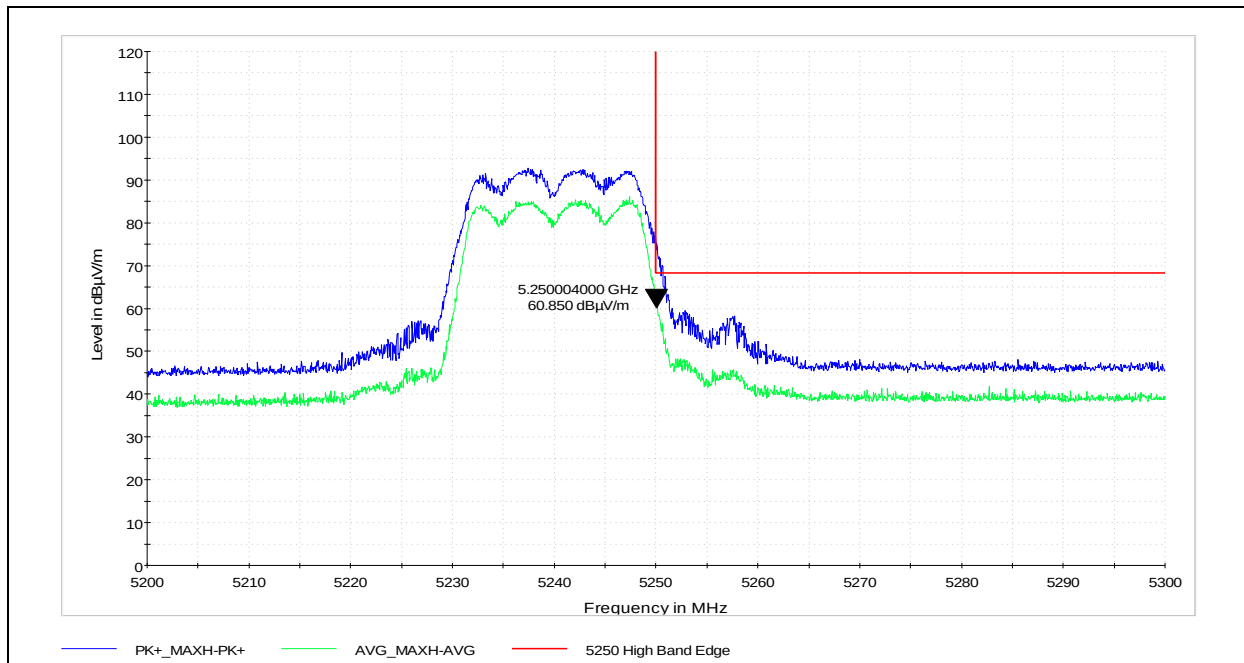


Vertical and Horizontal Data

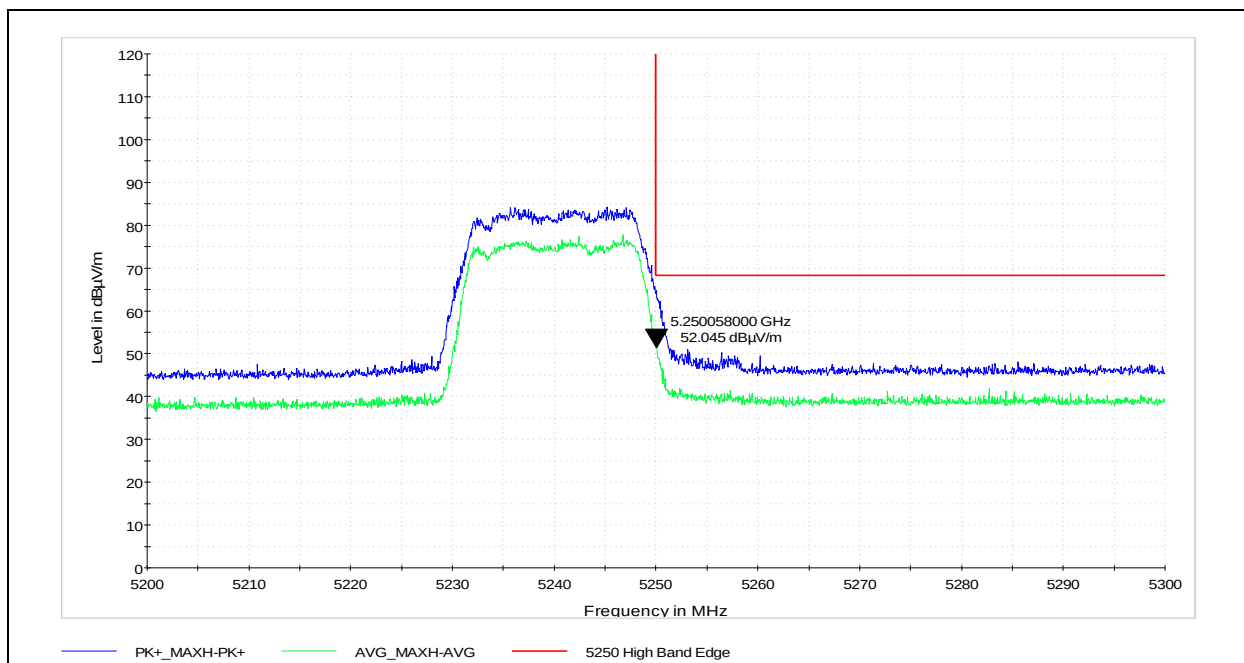
U-NII-1 Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: B. Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 20.4C/25.4%/985.4mbar
Comment: 802.11a, U-NII-1, Ch 48



Horizontal

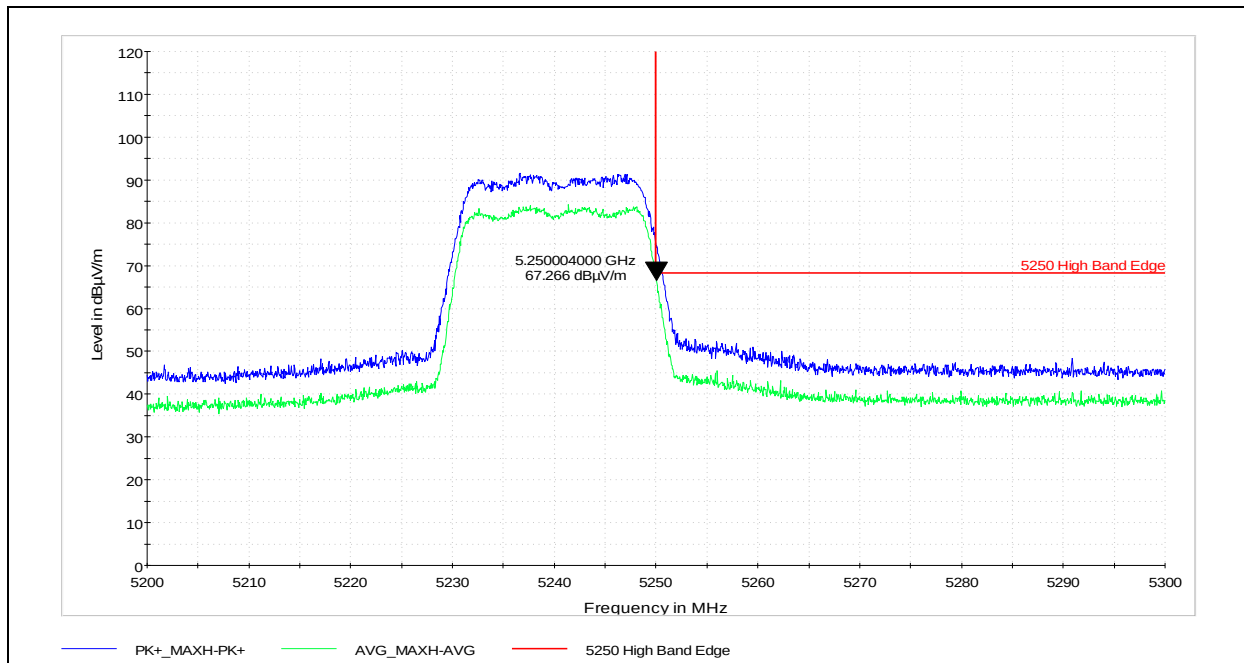


Vertical

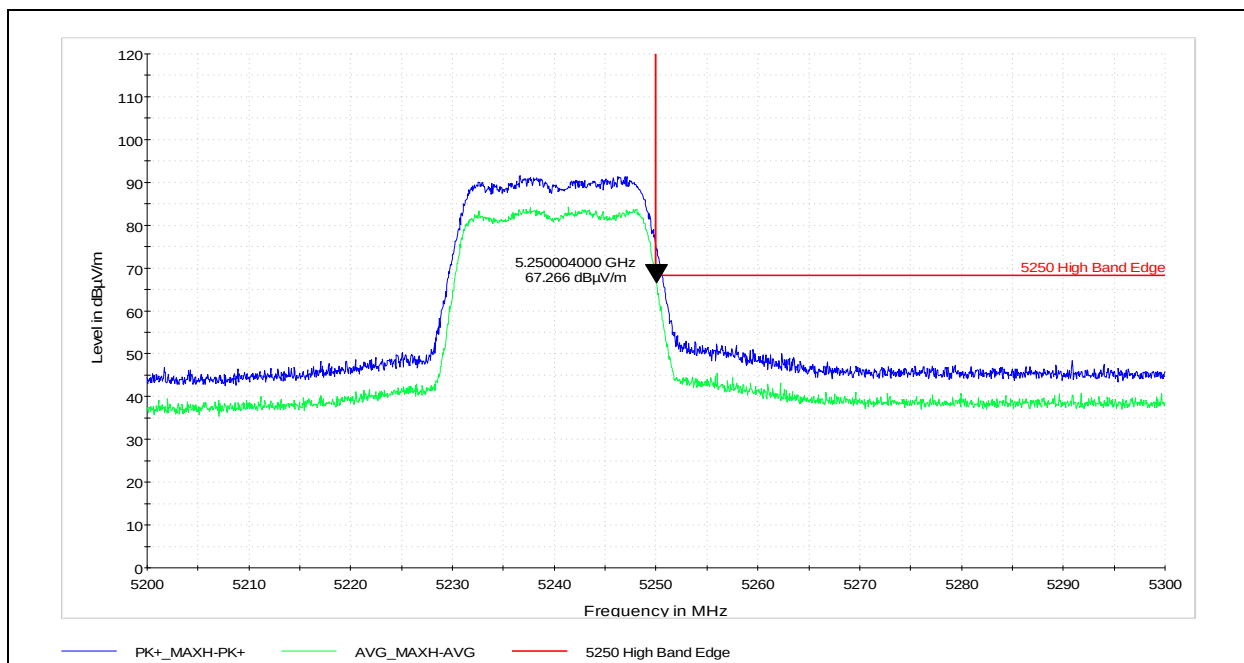
U-NII-1 Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: B. Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 20.4C/25.4%/985.4mbar
Comment: 802.11n (HT20), U-NII-1, Ch 48



Horizontal

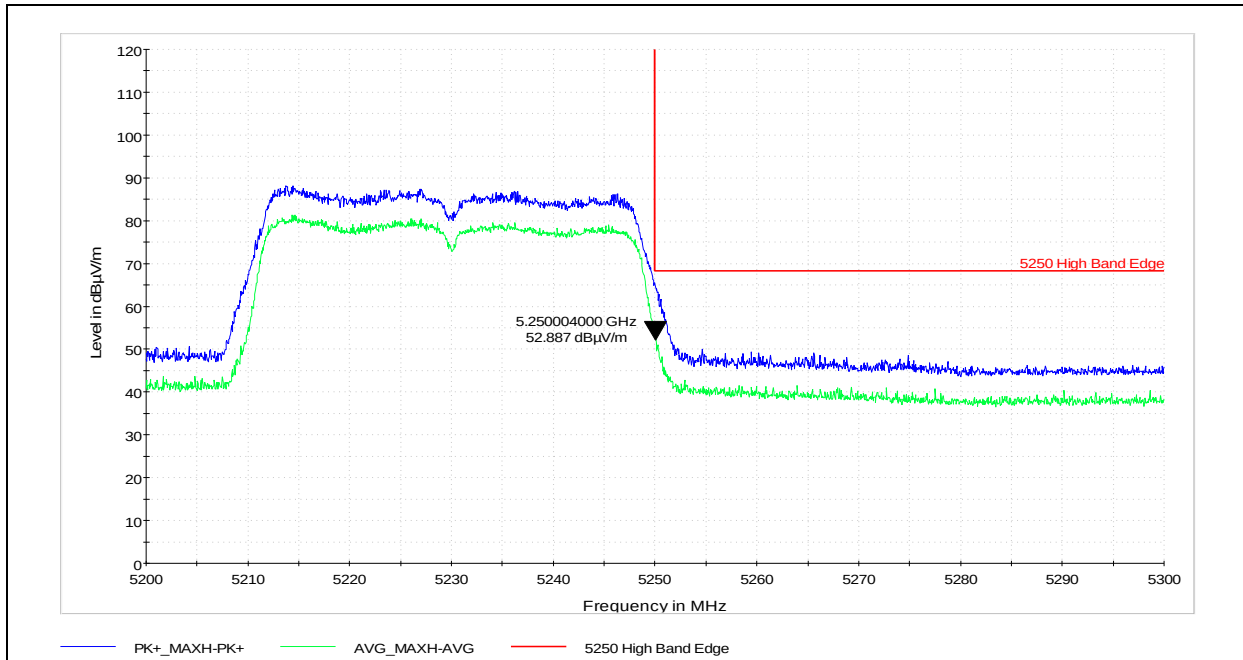


Vertical

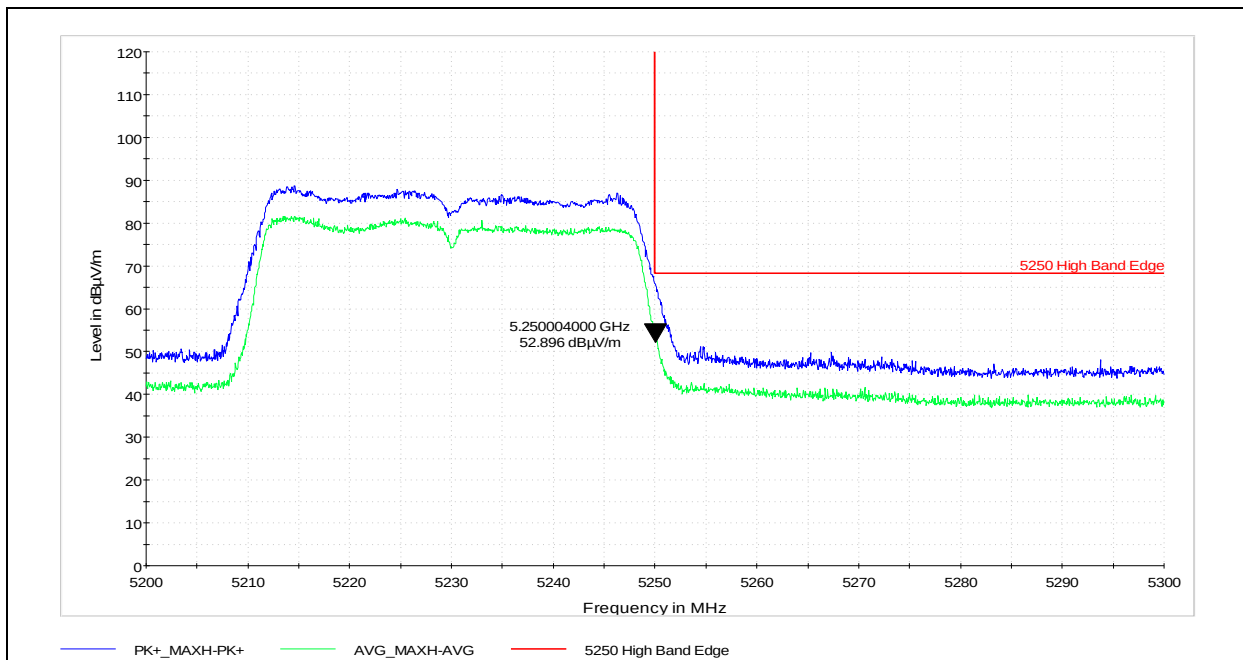
U-NII-1 Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: B. Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 20.4C/25.4%/985.4mbar
Comment: 802.11n (HT40), U-NII-1, Ch 46



Horizontal

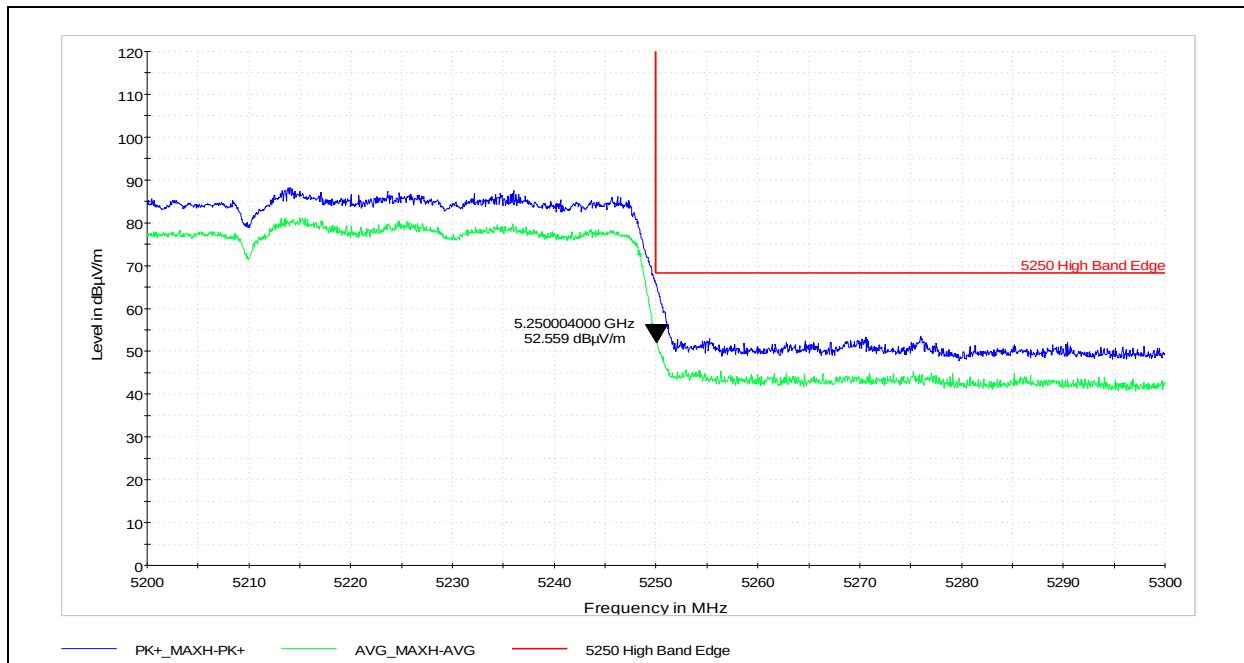


Vertical

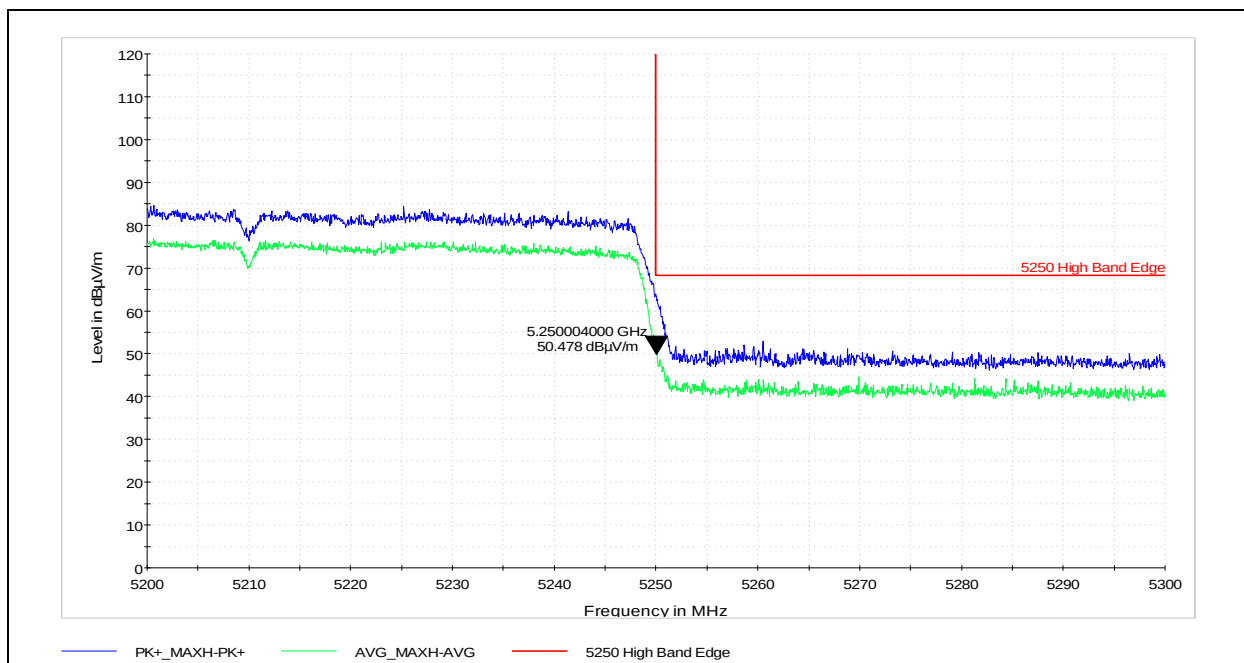
U-NII-1 Authorized Band Edge

EUT Information

EUT Name:	LEX-M07-001
Manufacturer:	Lexmark
Test Engineer:	B. Taylor
Date:	11/14/2017
Temp/Humidity/Pressure:	20.4C/25.4%/985.4mbar
Comment:	802.11ac (VHT80), U-NII-1, Ch 42



Horizontal

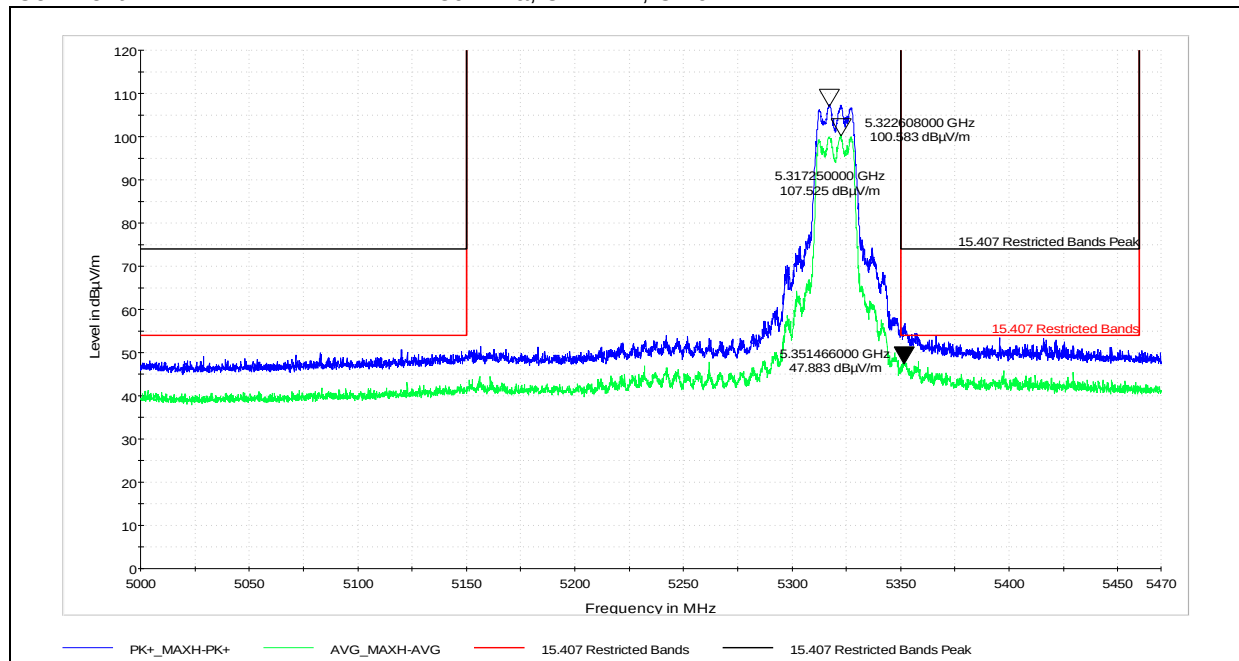


Vertical

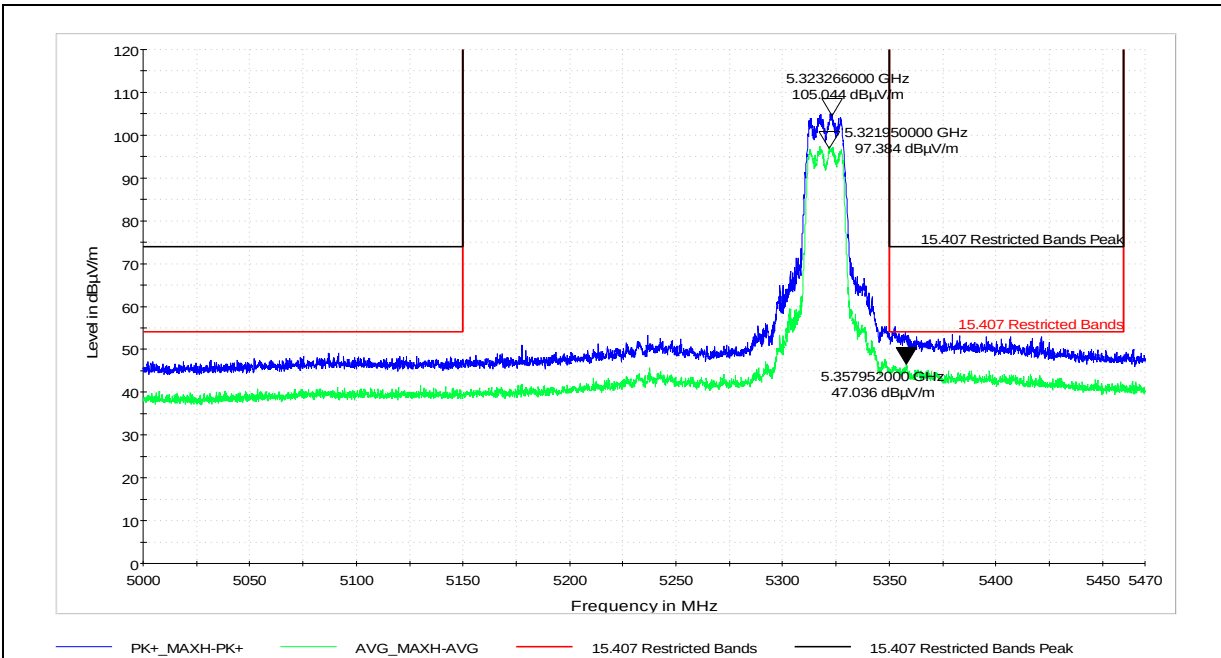
U-NII-2A Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11a, U-NII-2A, Ch 64



Vertical

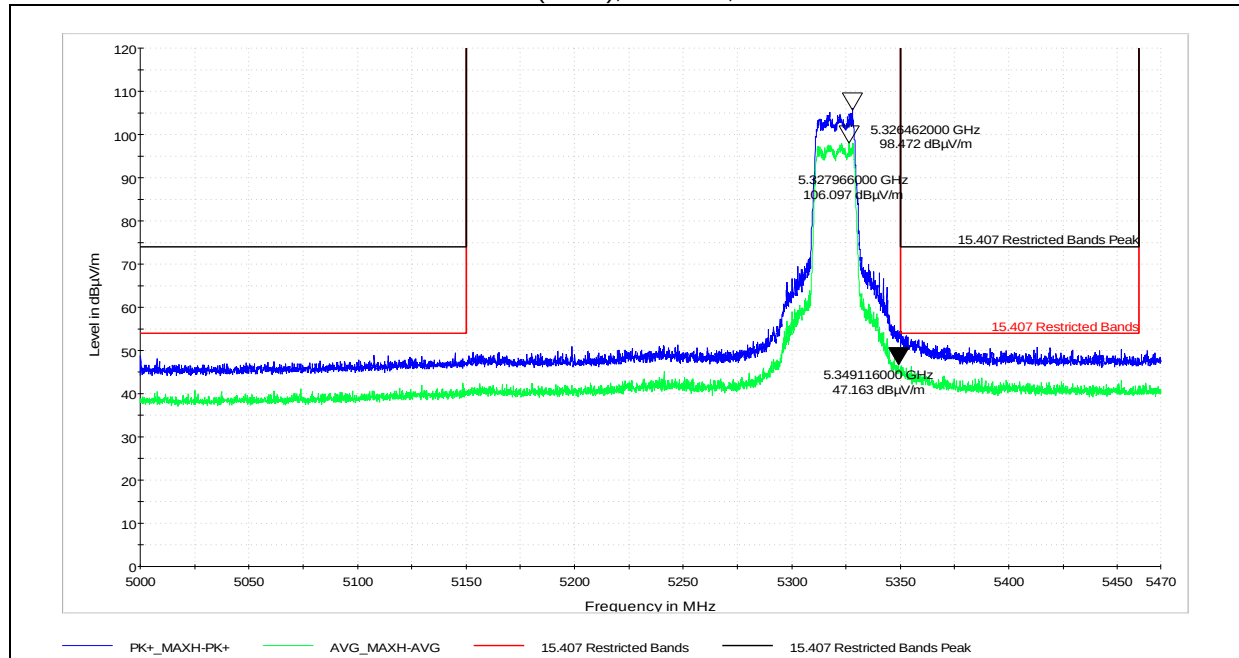


Horizontal

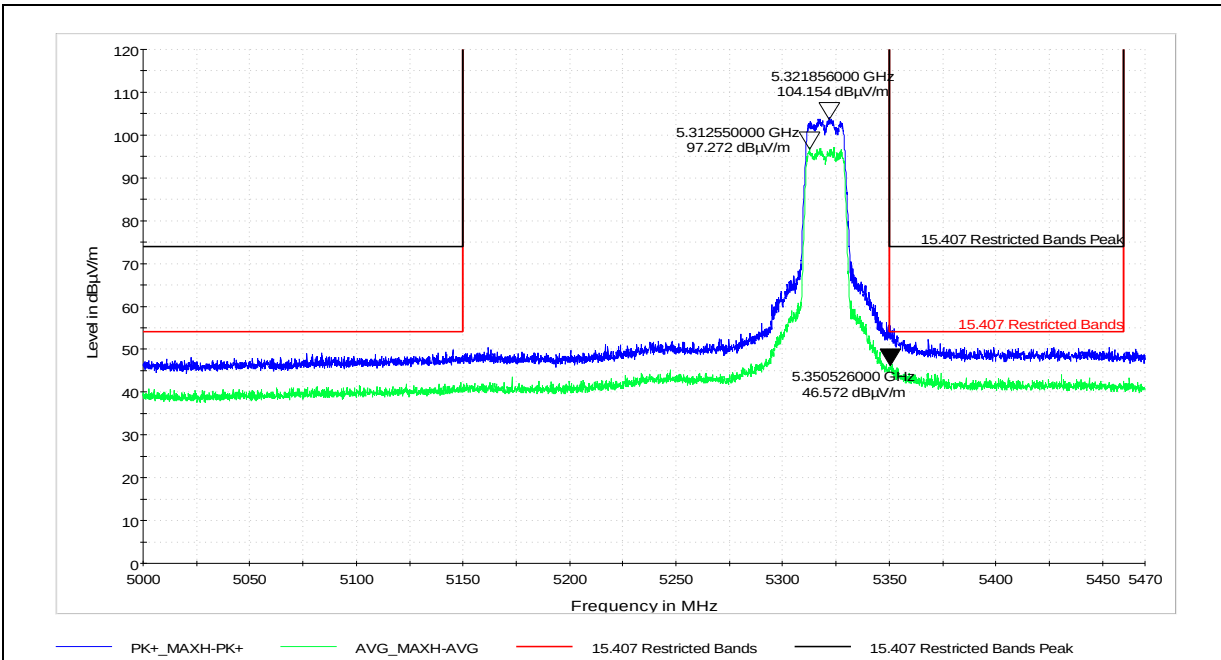
U-NII-2A Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11n (HT20), U-NII-2A, Ch 64



Horizontal

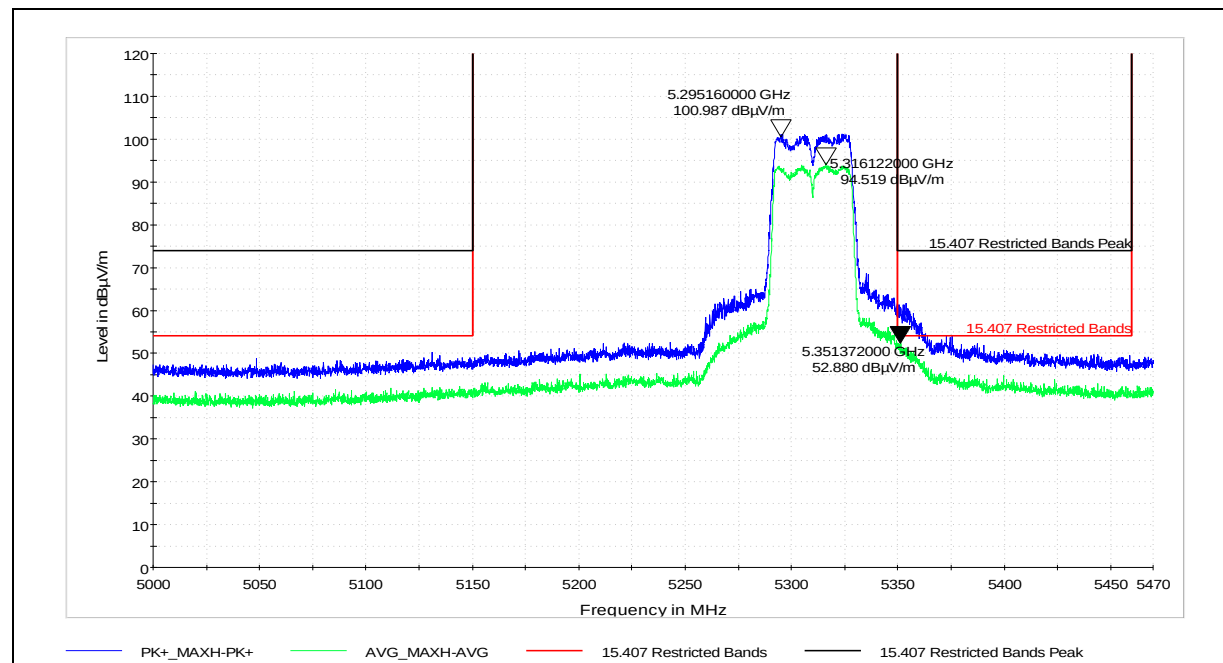


Vertical

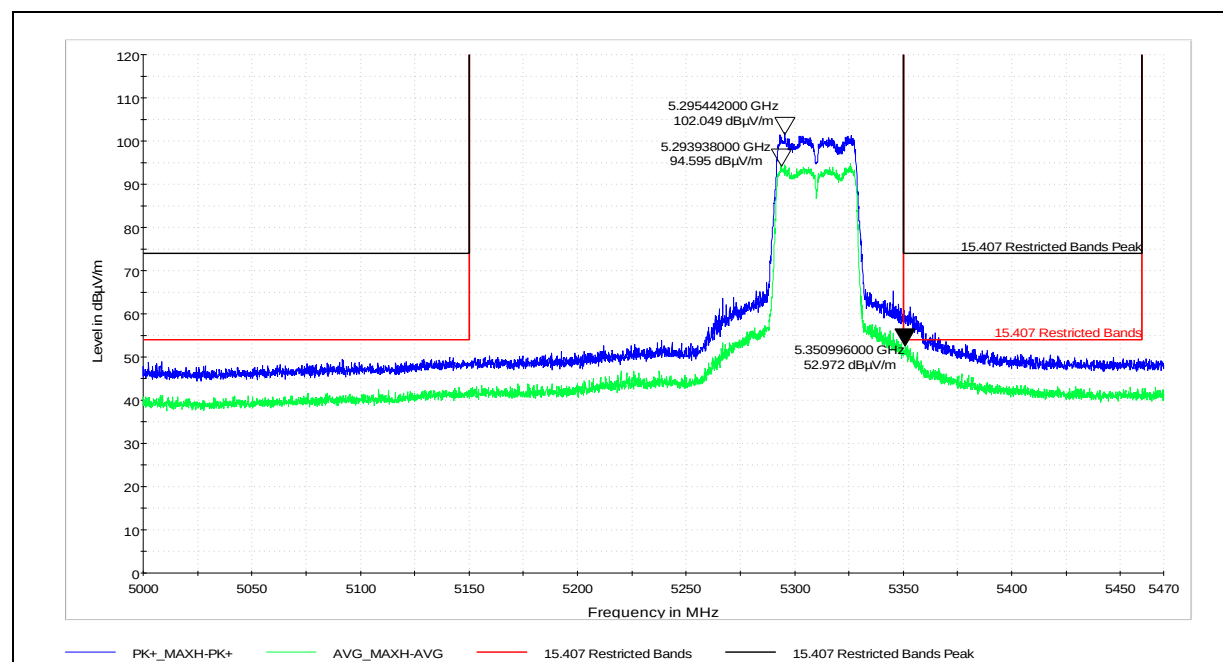
U-NII-2A Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11n (HT40), U-NII-2A, Ch 62



Horizontal

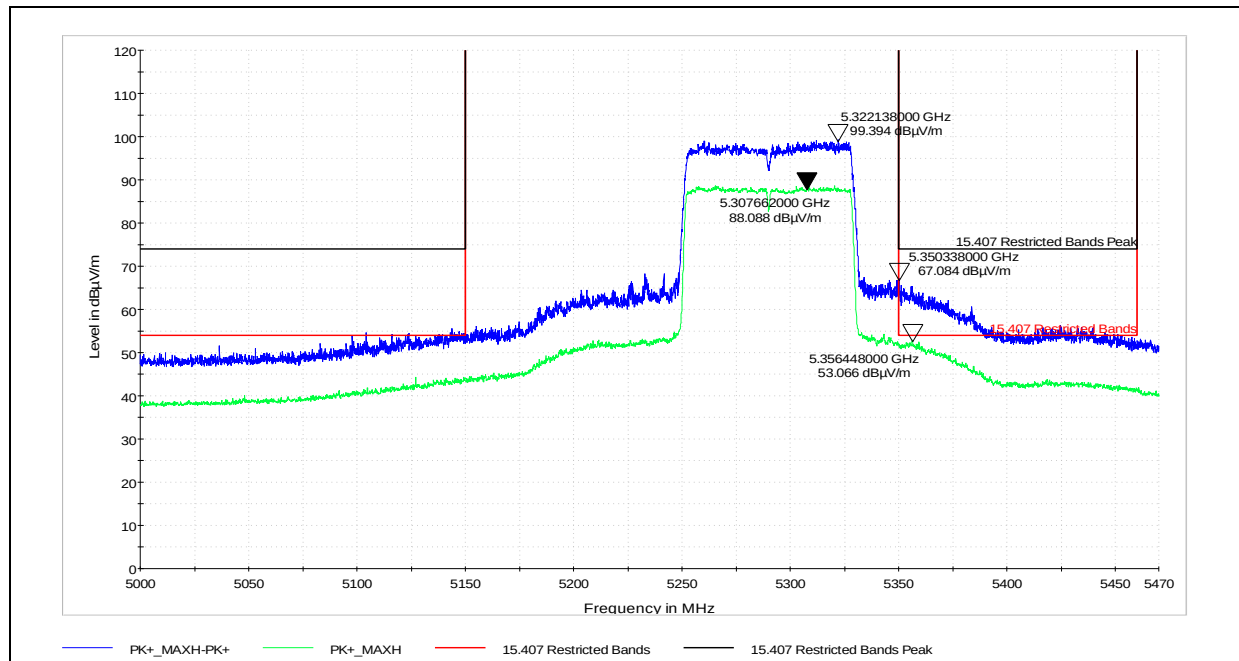


Vertical

U-NII-2A Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 10/26/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11ac (VHT80), U-NII-2A, Ch 58

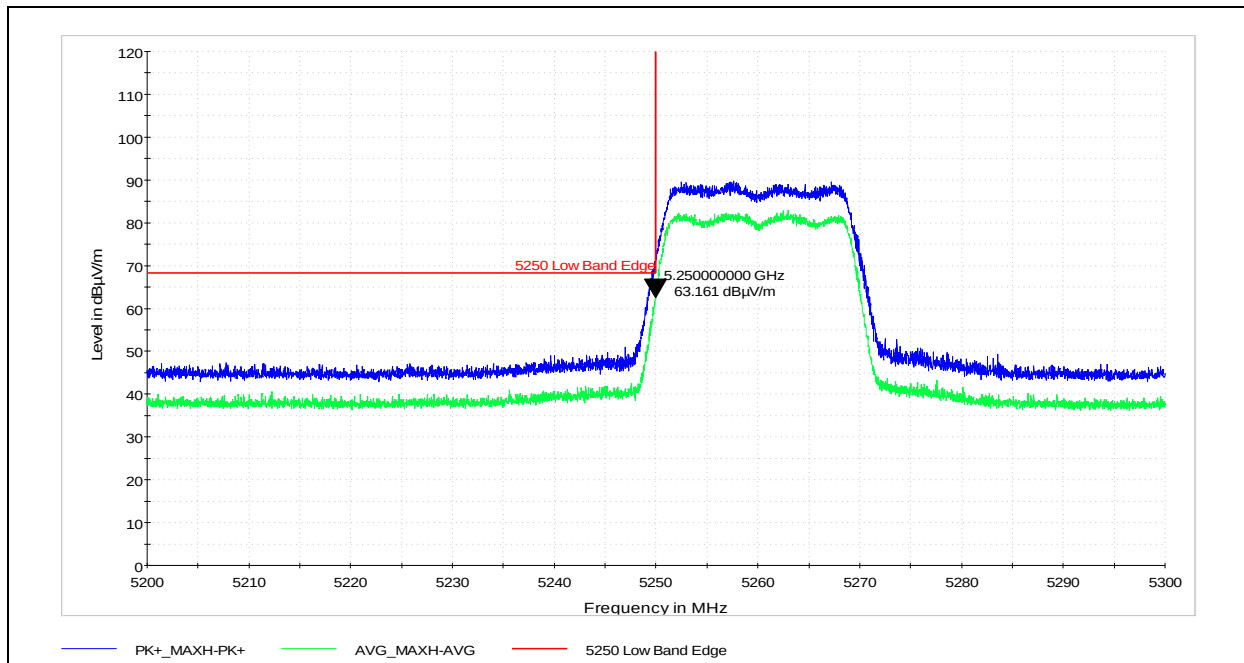


Peak and Average Measurements (Worst Case Horizontal and Vertical)

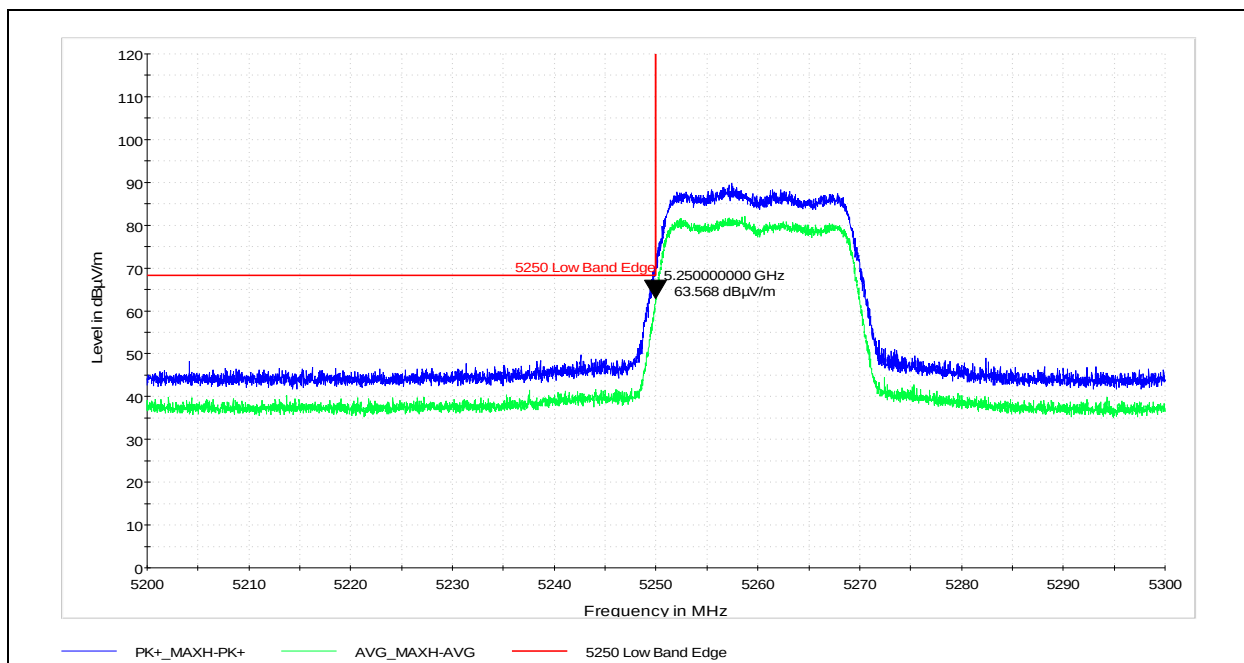
U-NII-2A Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11a, U-NII-2A, Ch 52



Horizontal

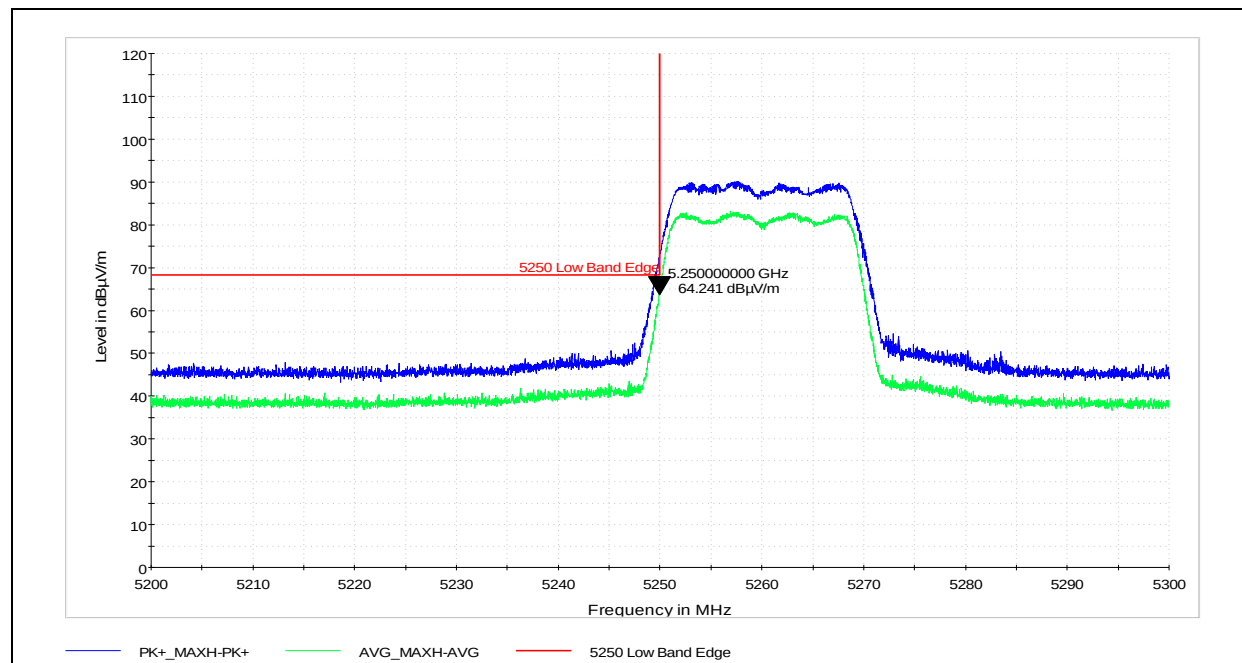


Vertical

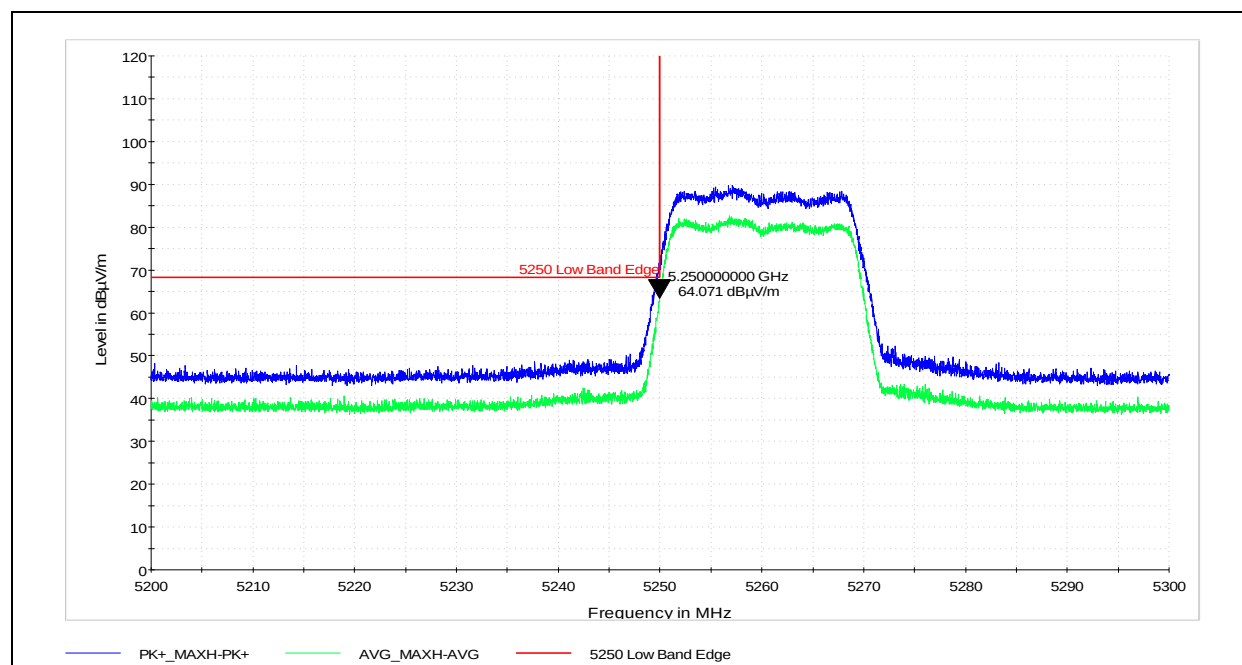
U-NII-2A Authorized Band Edge

EUT Information

EUT Name:	LEX-M07-001
Manufacturer:	Lexmark
Test Engineer:	Bryan Taylor
Date:	11/14/2017
Temp/Humidity/Pressure:	21C/39%/978.6mbar
Comment:	802.11n (HT20), U-NII-2A, Ch 52



Horizontal

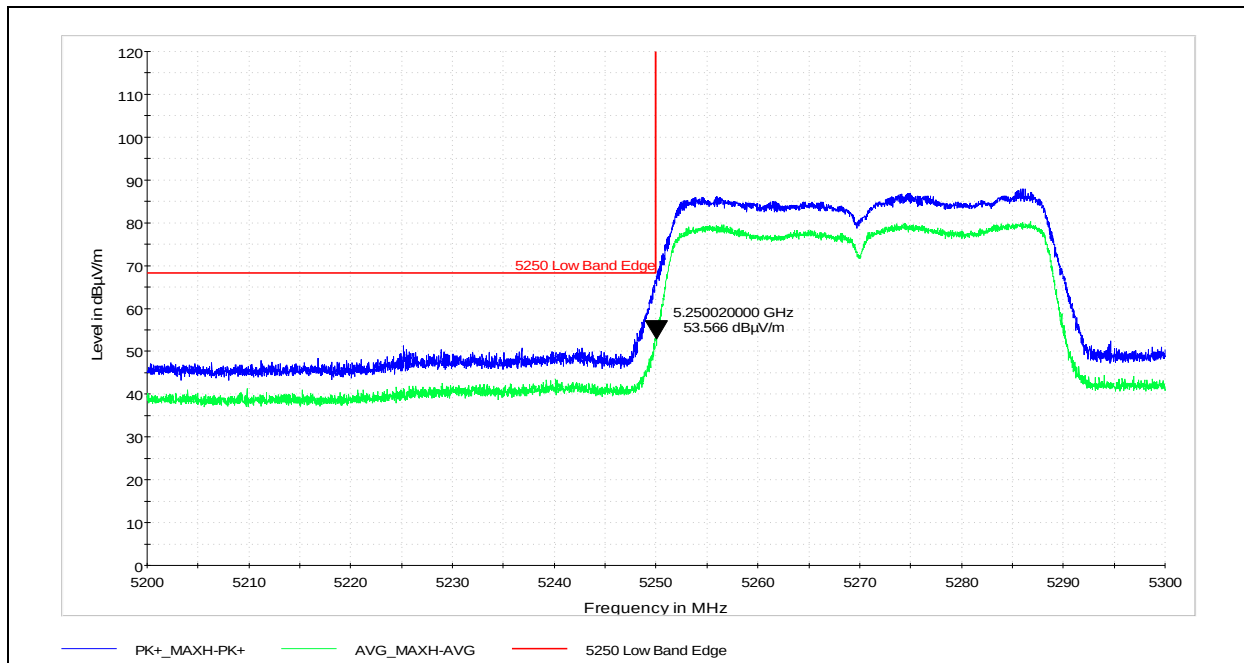


Vertical

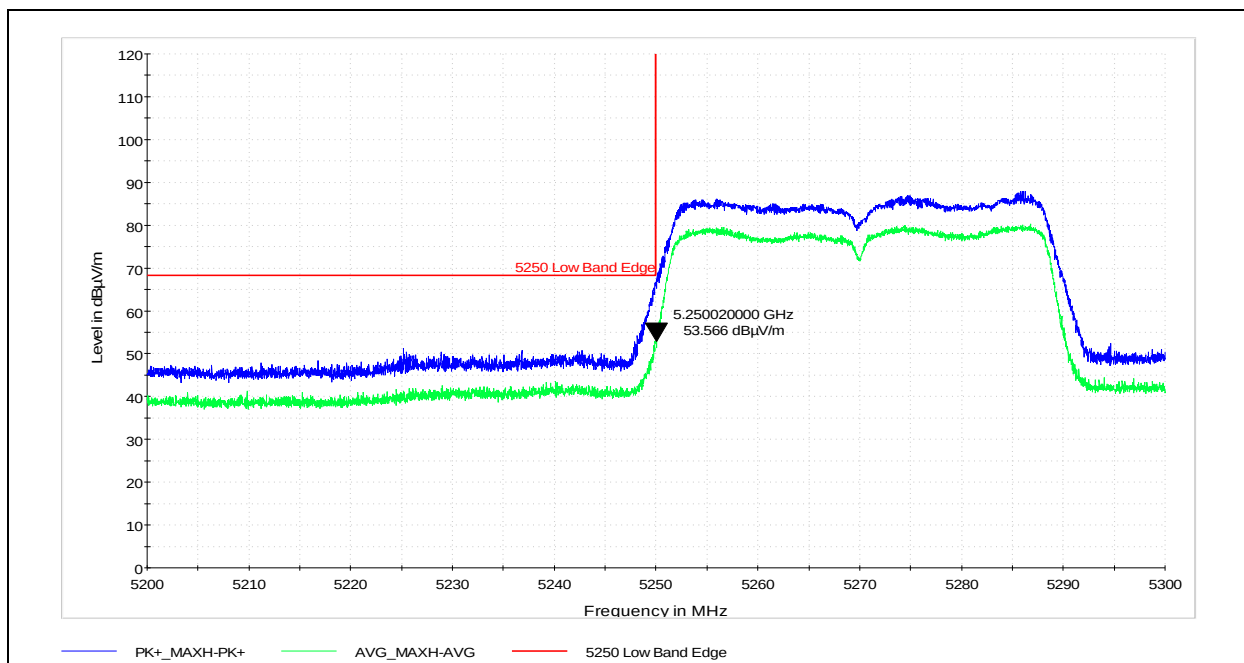
U-NII-2A Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11n (HT40), U-NII-2A, Ch 54



Horizontal

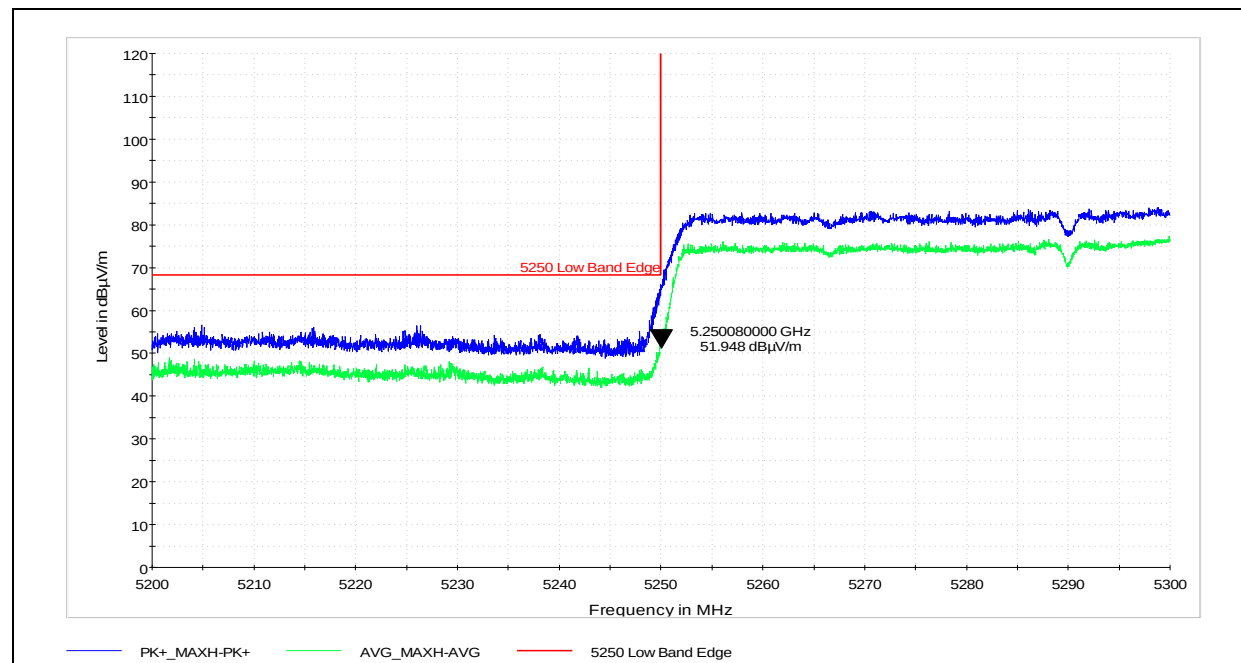


Vertical

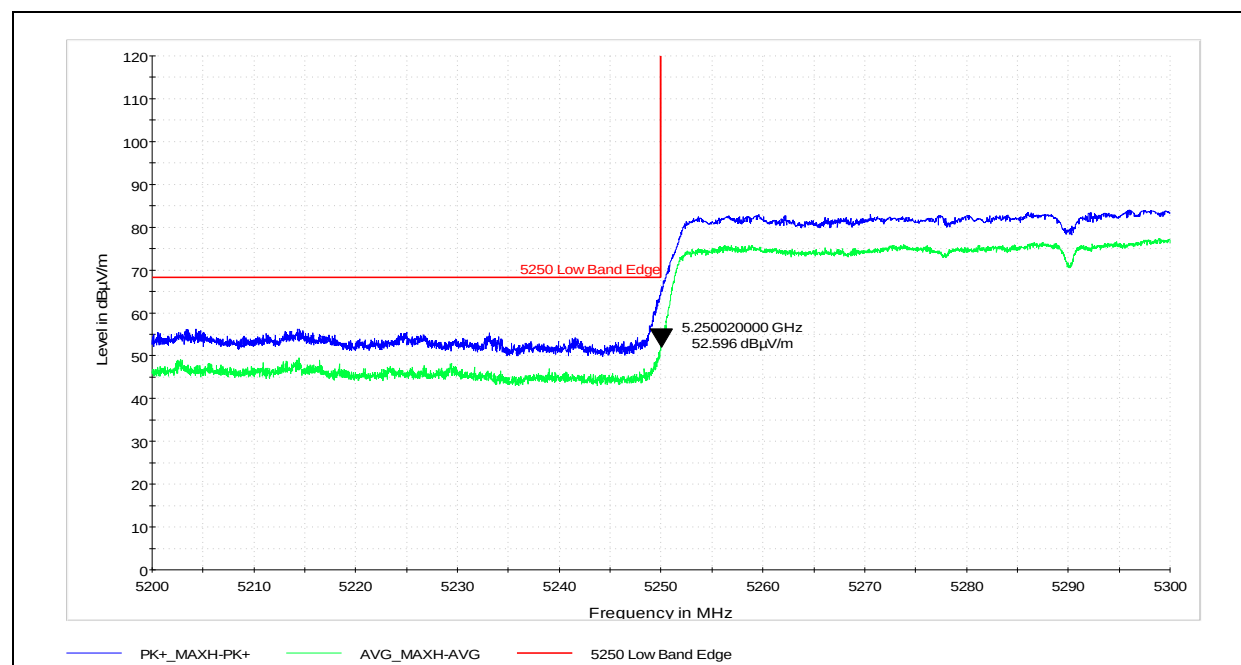
U-NII-2A Authorized Band Edge

EUT Information

EUT Name:	LEX-M07-001
Manufacturer:	Lexmark
Test Engineer:	Bryan Taylor
Date:	11/14/2017
Temp/Humidity/Pressure:	21C/39%/978.6mbar
Comment:	802.11ac (VHT80), U-NII-2A, Ch 58



Horizontal

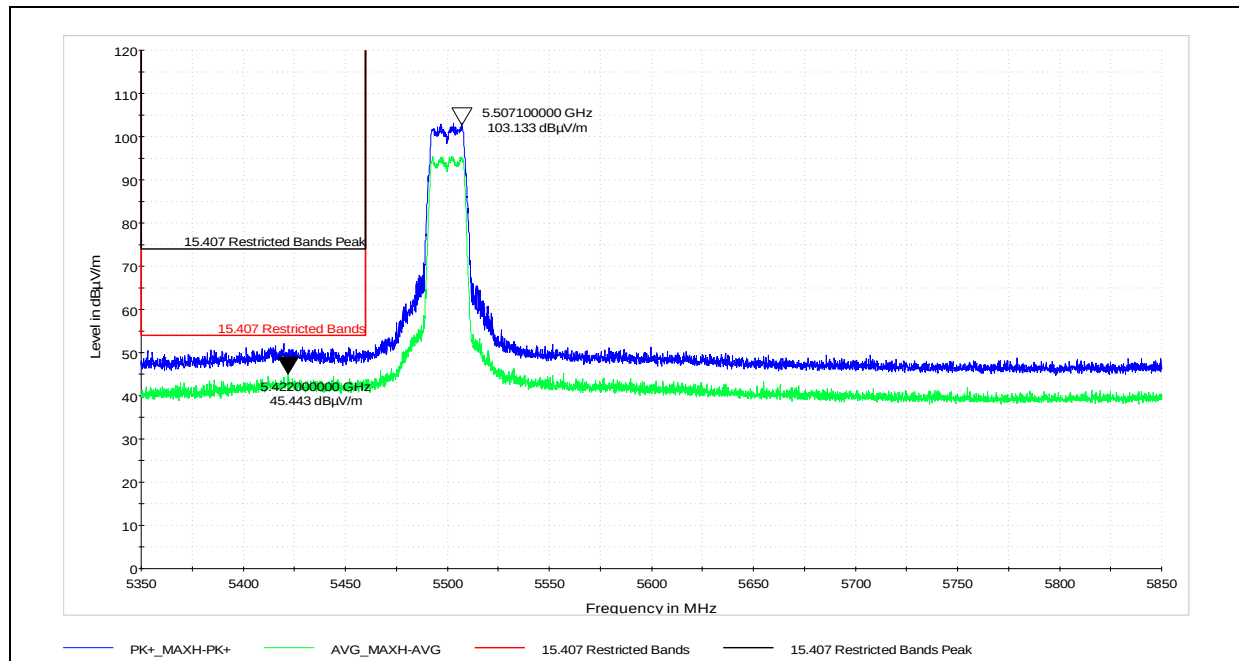


Vertical

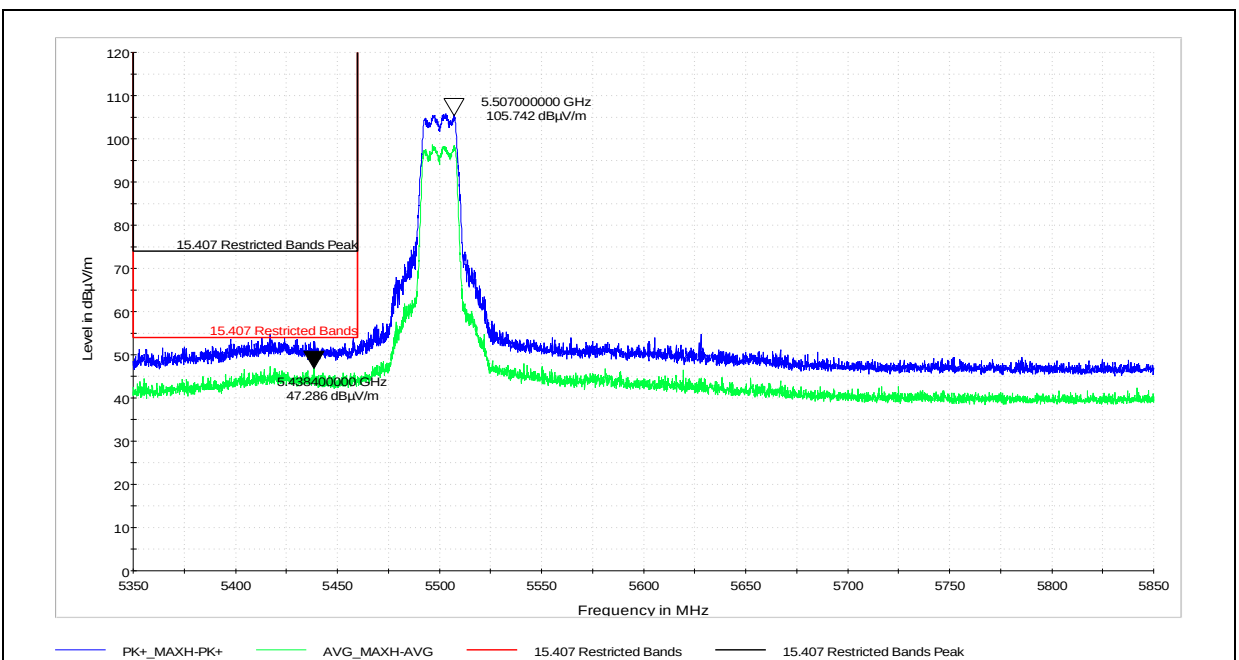
U-NII-2C Restricted Band Edge

EUT Information

EUT Name:	LEX-M07-001
Manufacturer:	Lexmark
Test Engineer:	Bryan Taylor
Date:	11/9/2017
Temp/Humidity/Pressure:	20.9C/45.2%/985.4mbar
Comment:	802.11a, U-NII-2C, Ch 100



Vertical

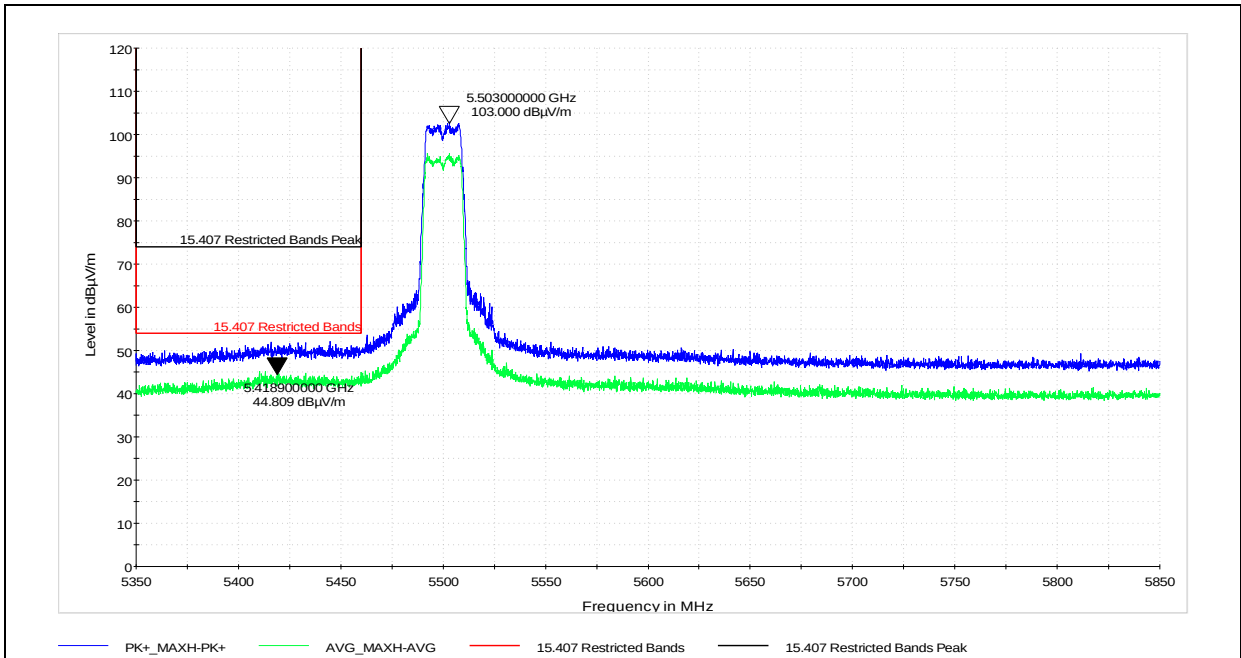


Horizontal

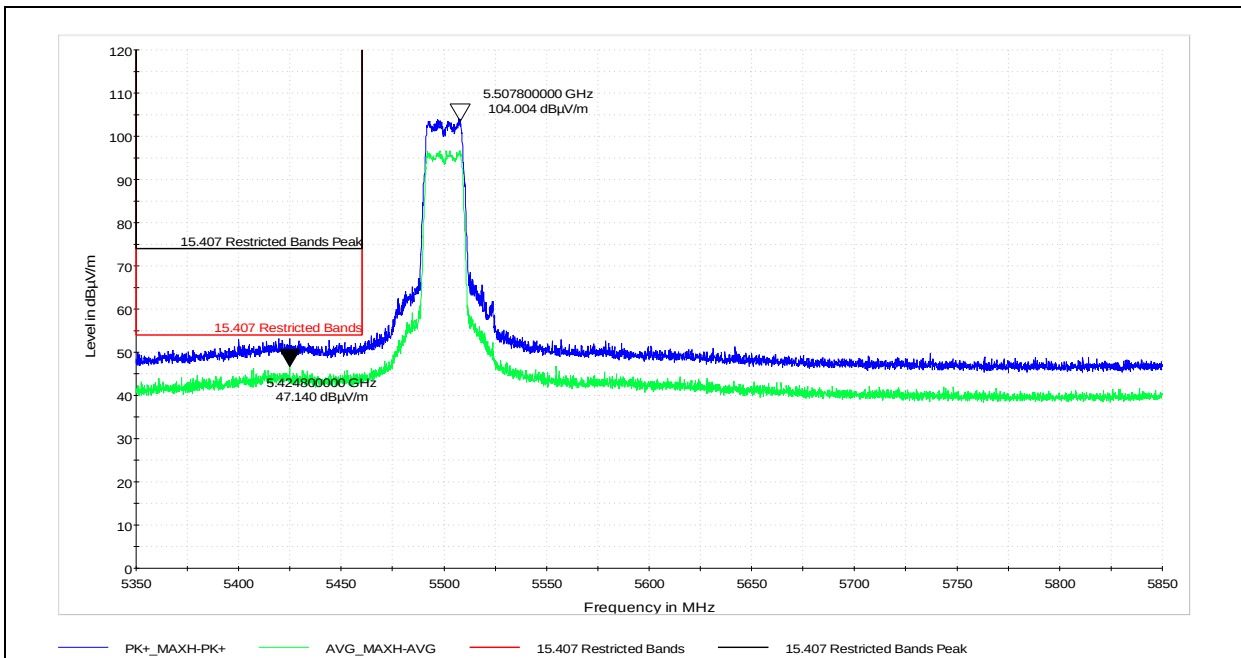
U-NII-2C Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n(HT20), U-NII-2C, Ch 100



Vertical

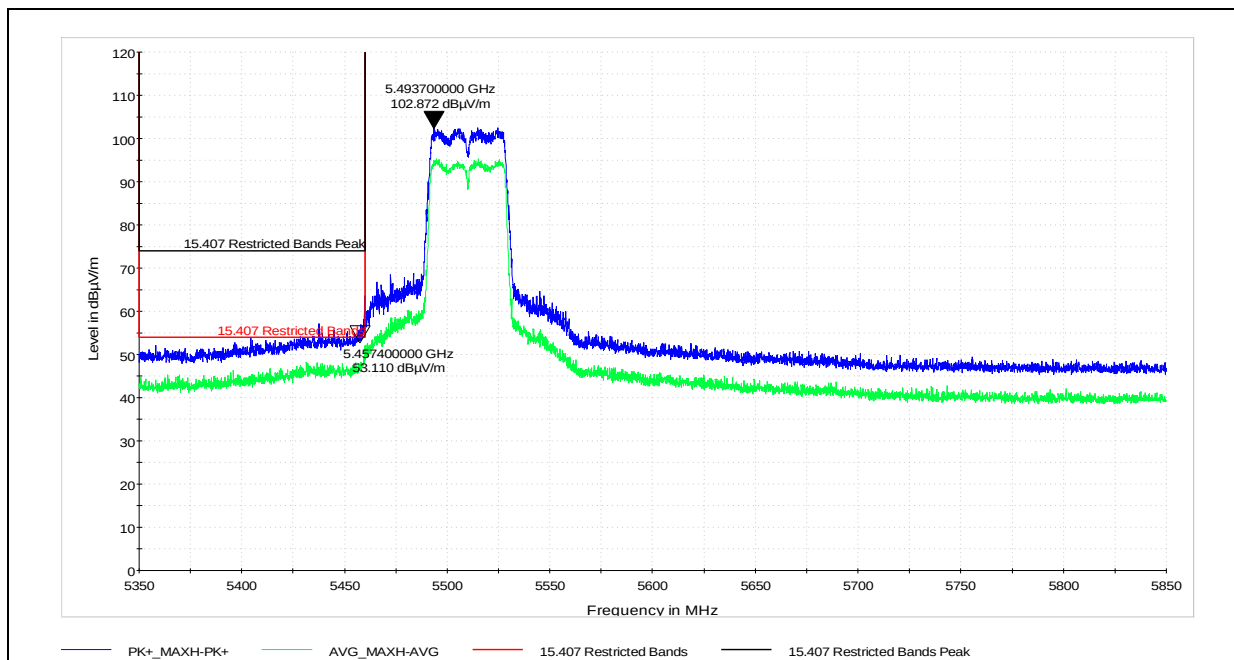


Horizontal

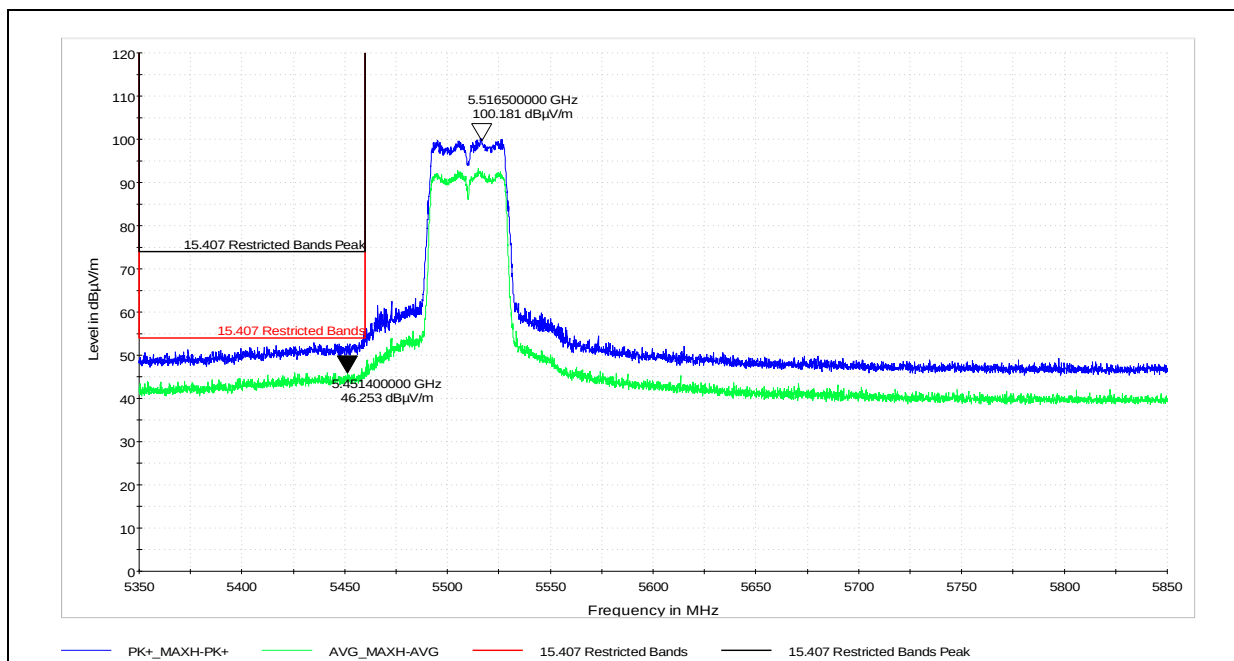
U-NII-2C Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n(HT40), U-NII-2C, Ch 102



Horizontal

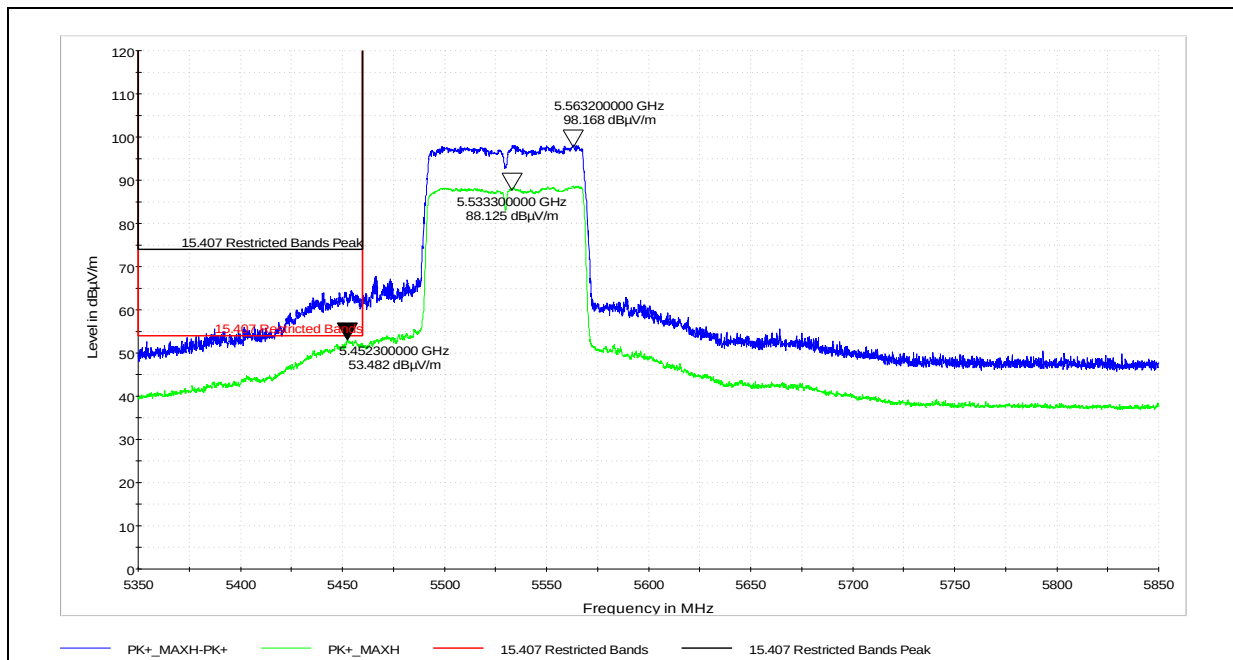


Vertical

U-NII-2C Restricted Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11ac(VHT80), U-NII-2C, Ch 106
Output Power Setting = 10

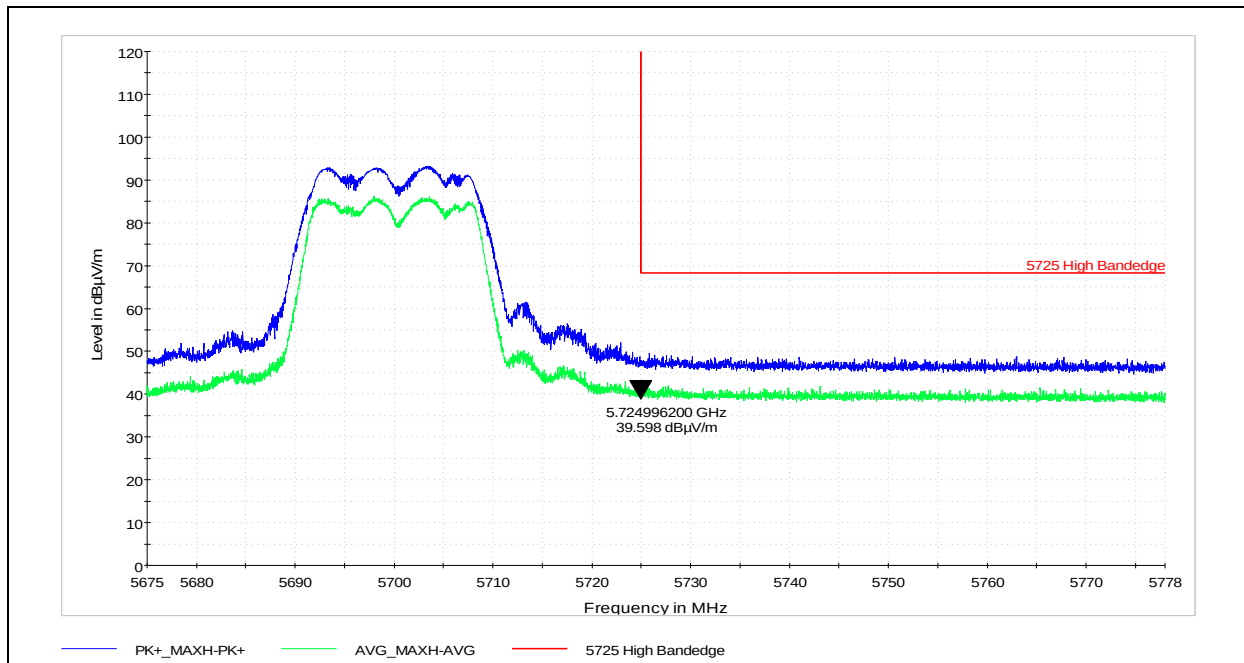


Worst Case Vertical And Horizontal (Max Hold)

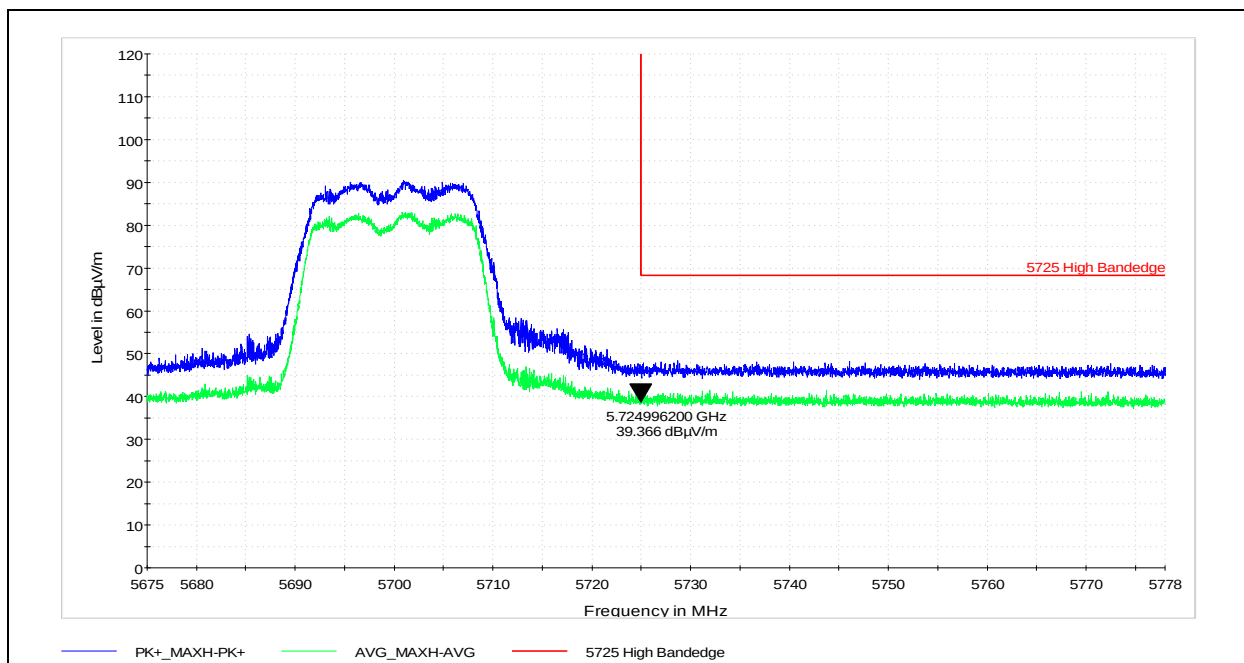
U-NII-2C Authorized Band Edge

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/14/2017
Temp/Humidity/Pressure: 21C/39%/978.6mbar
Comment: 802.11a, U-NII-2C, Ch 140



Horizontal

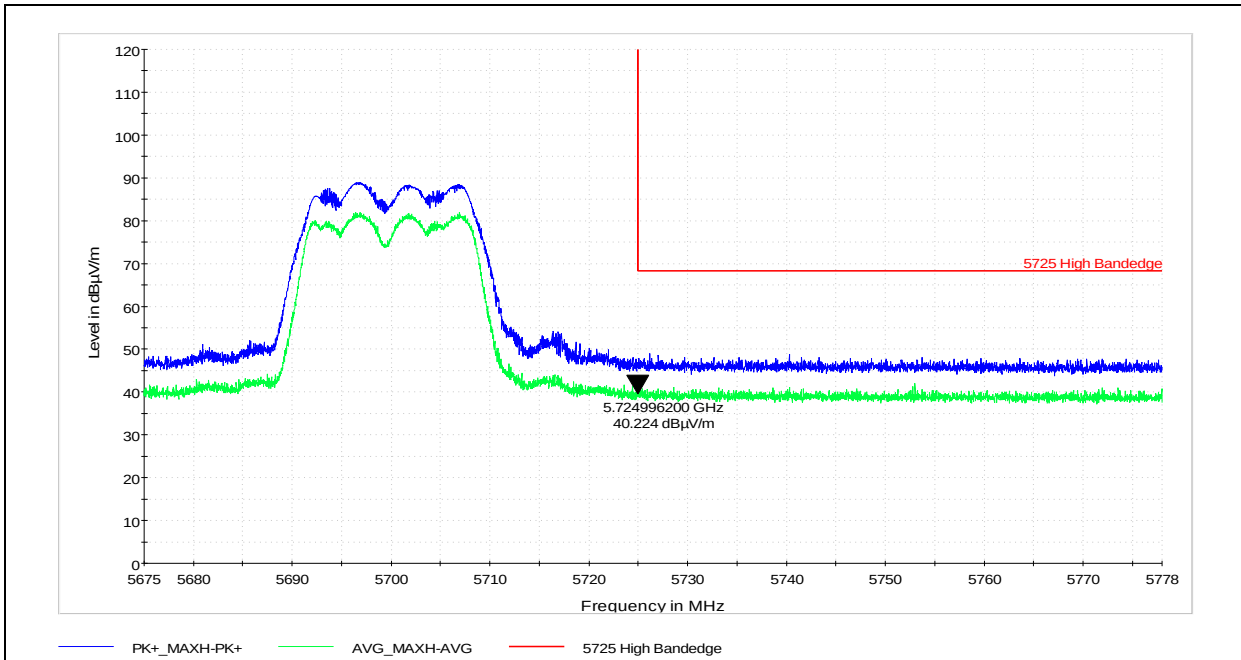


Vertical

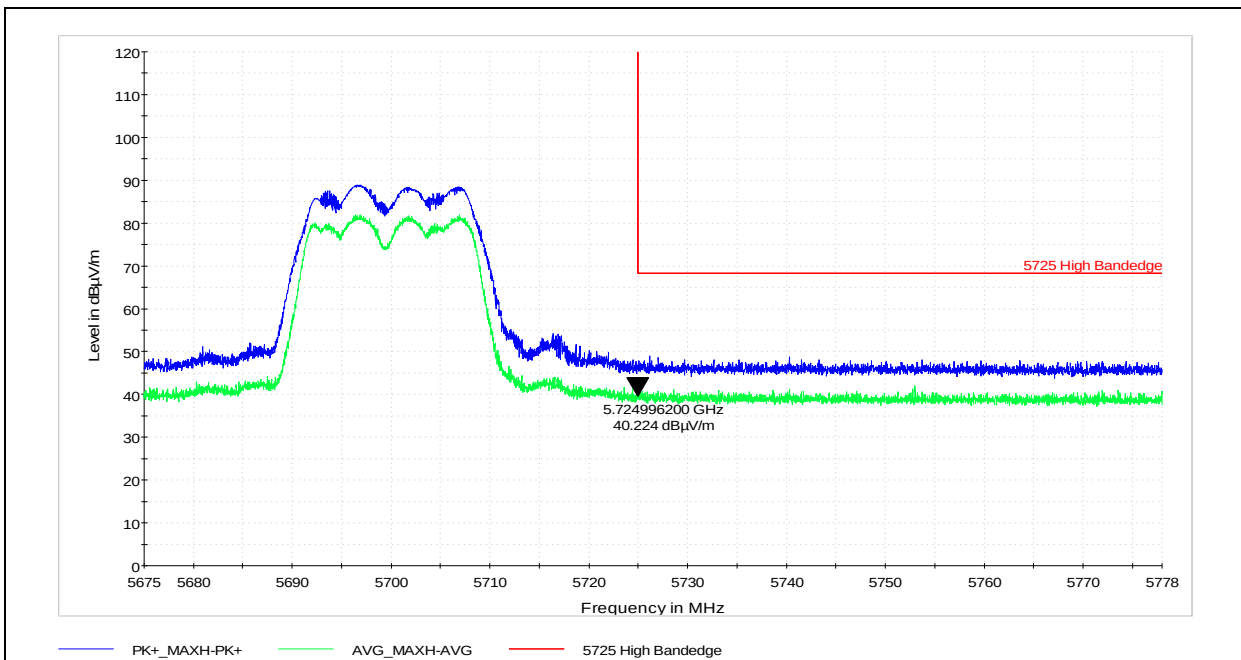
U-NII-2C Authorized Band Edge

EUT Information

EUT Name:	LEX-M07-001
Manufacturer:	Lexmark
Test Engineer:	Bryan Taylor
Date:	11/14/2017
Temp/Humidity/Pressure:	21C/39%/978.6mbar
Comment:	802.11n20, U-NII-2C, Ch 140



Horizontal

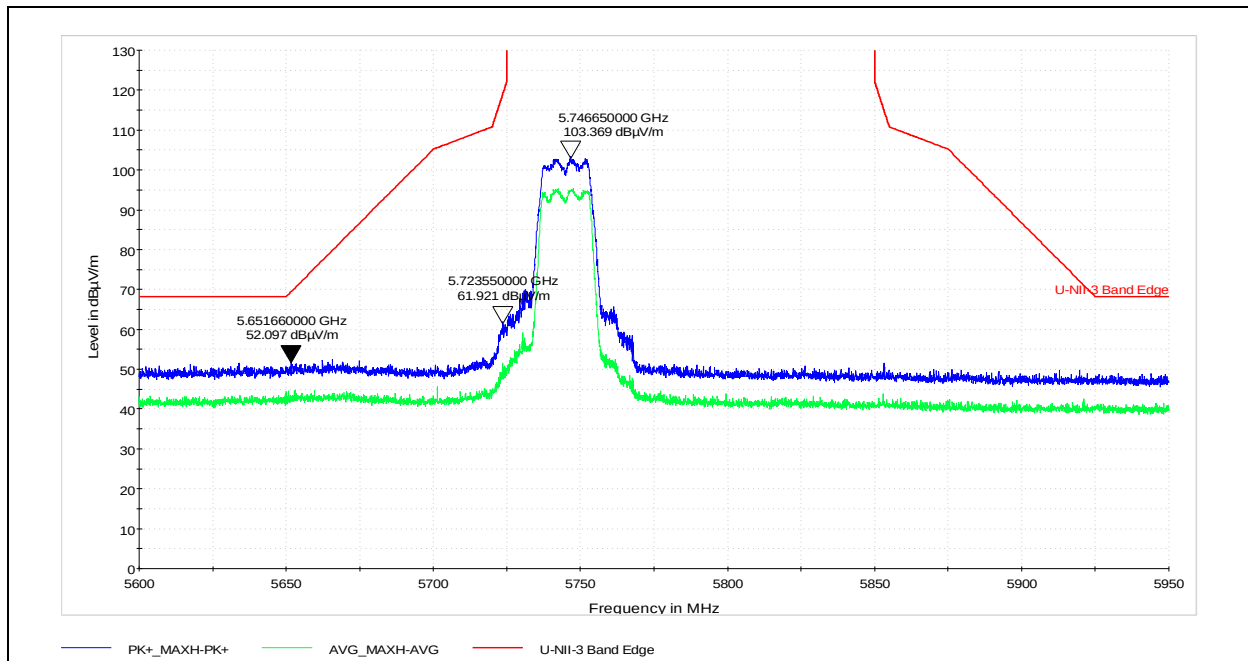


Vertical

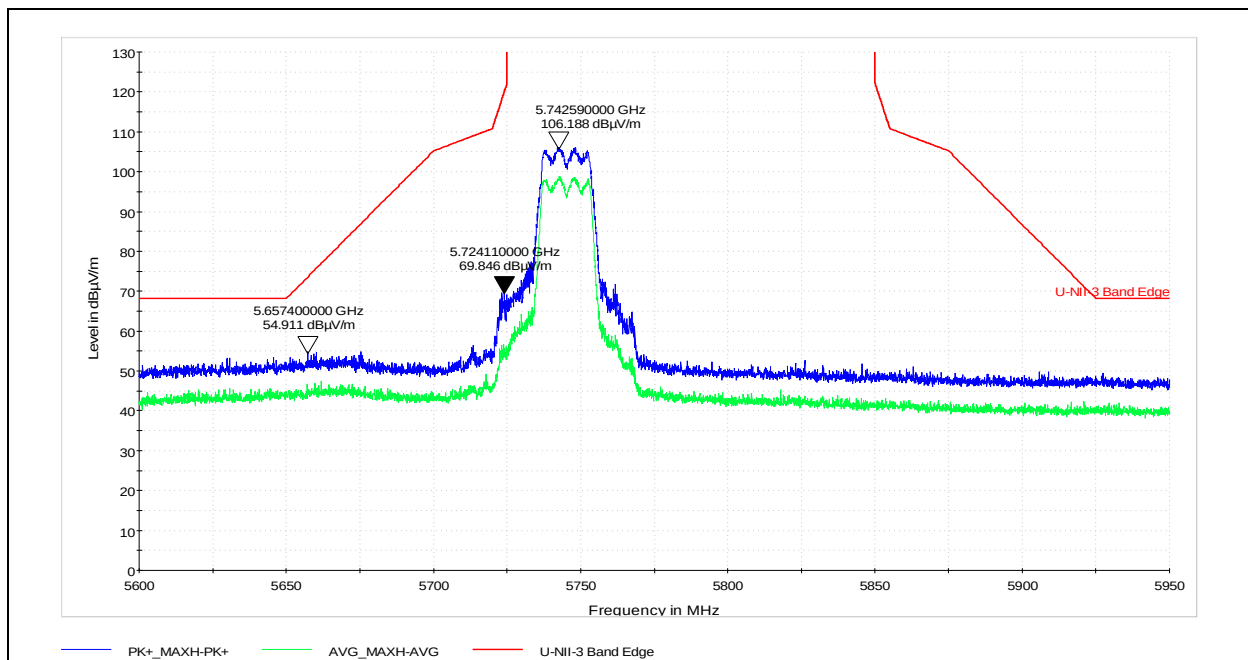
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11a, U-NII-3, Ch 149



Vertical

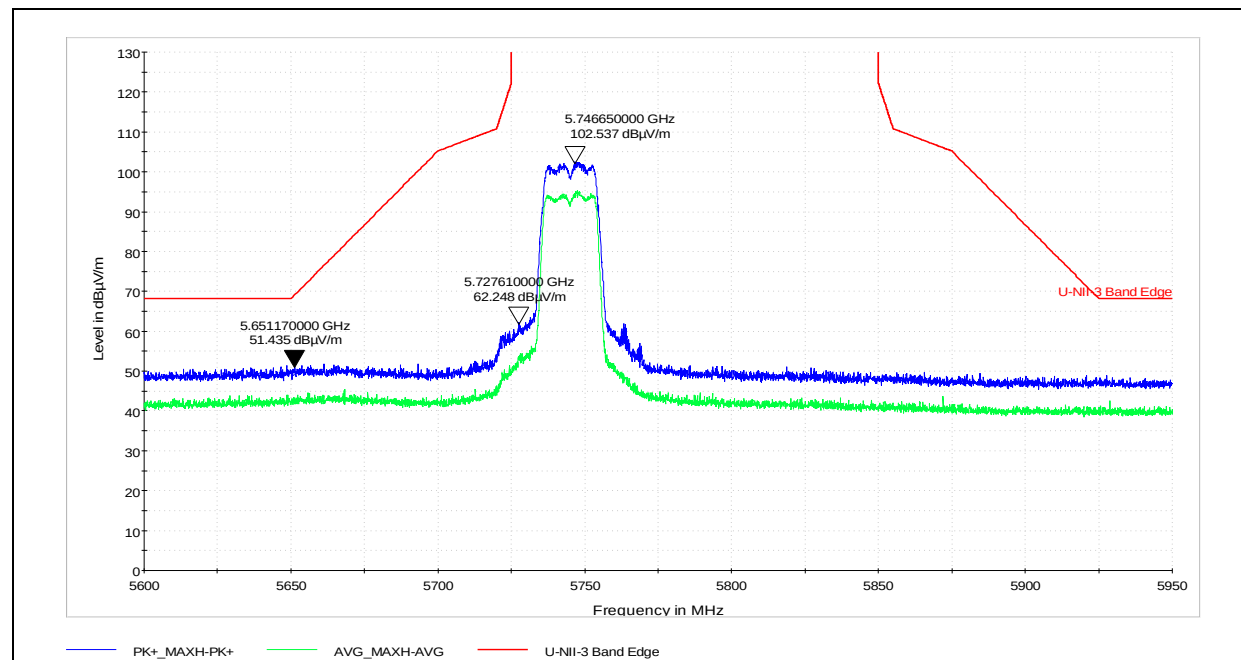


Horizontal

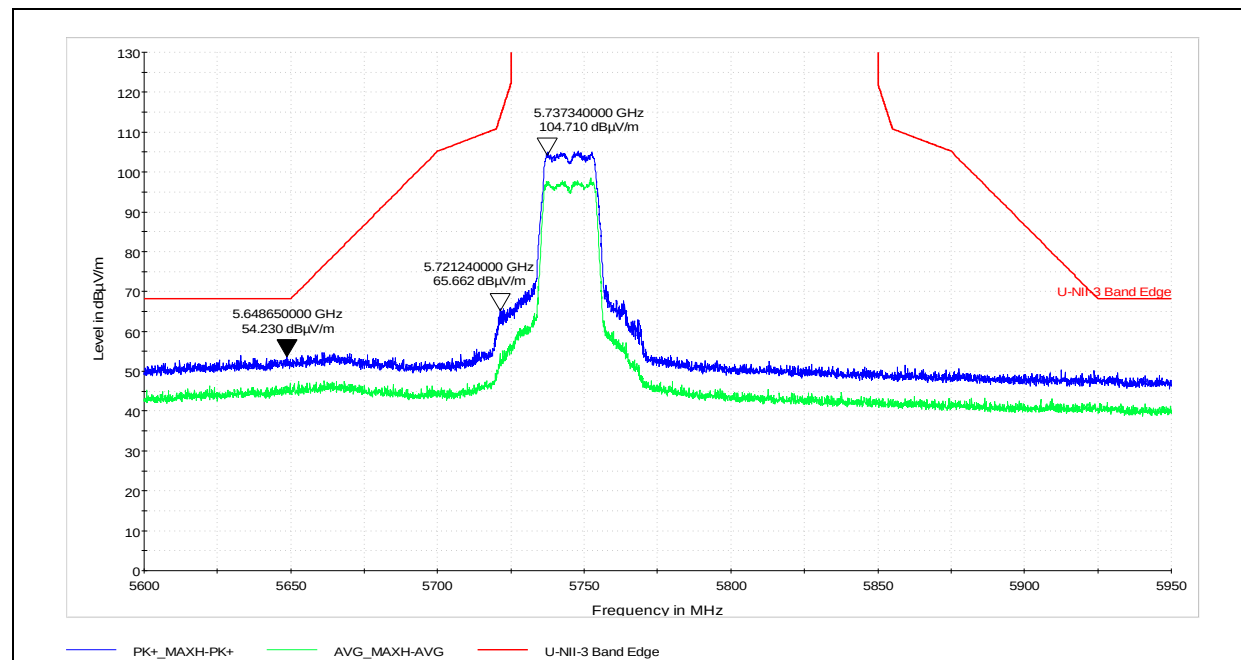
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n (HT20), U-NII-3, Ch 149



Vertical

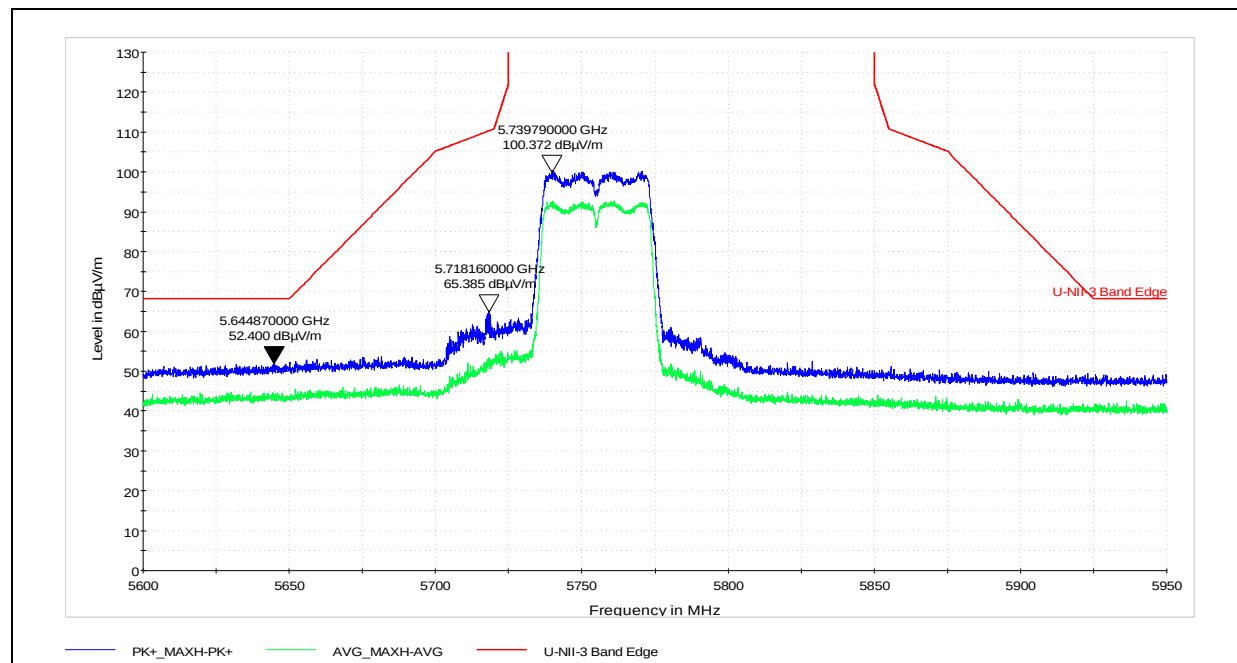


Horizontal

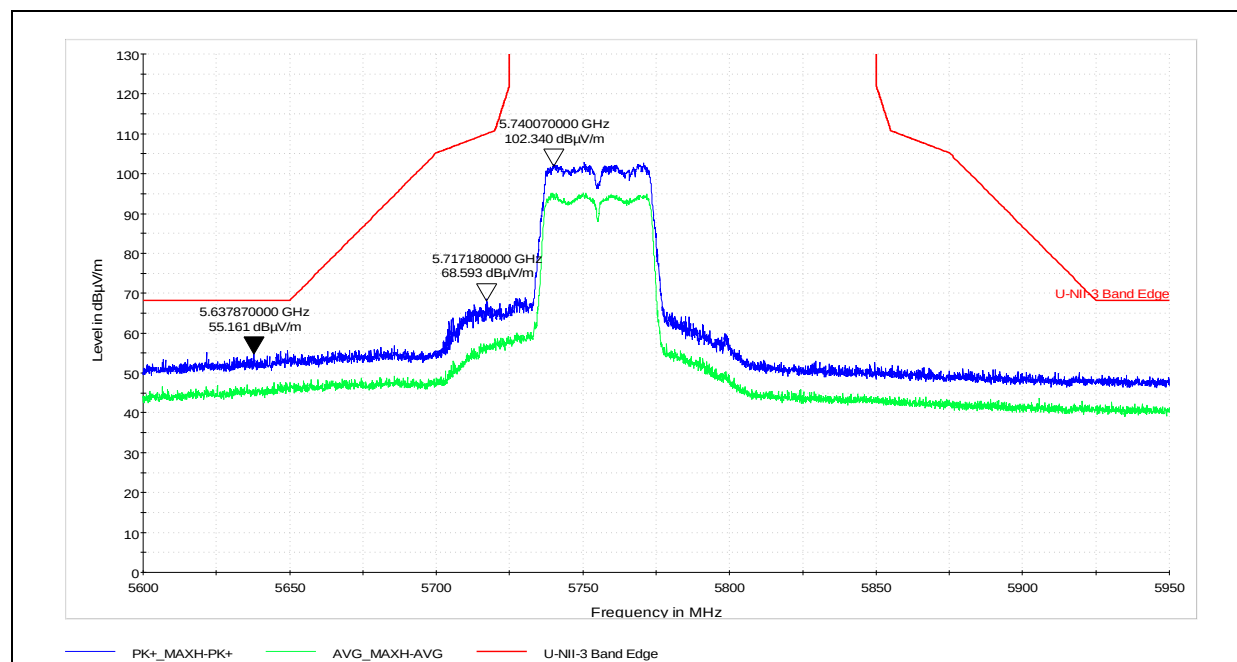
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n (HT40), U-NII-3, Ch 151



Vertical

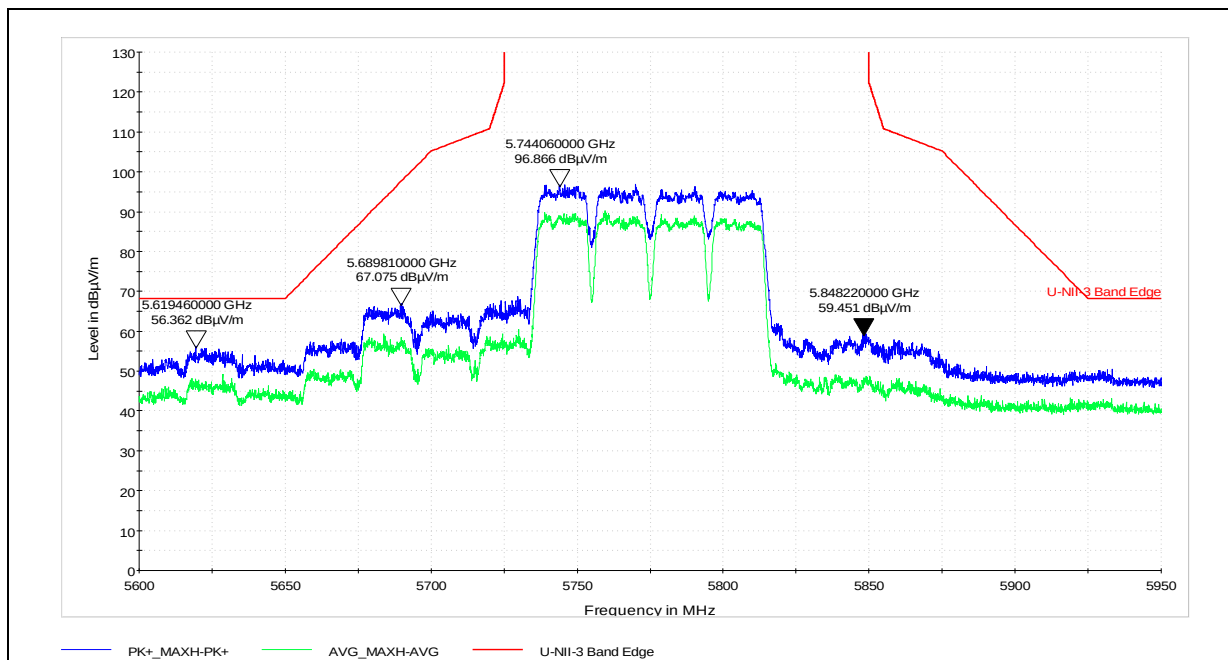


Horizontal

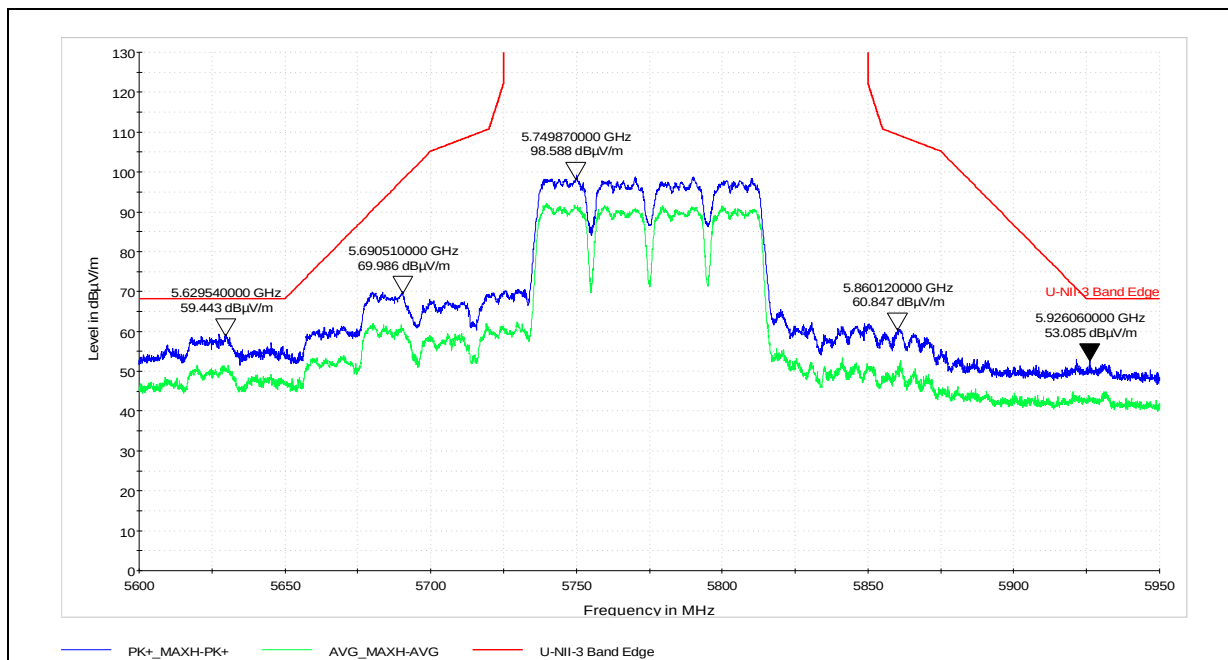
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11ac(VHT80), U-NII-3, Ch 155



Vertical

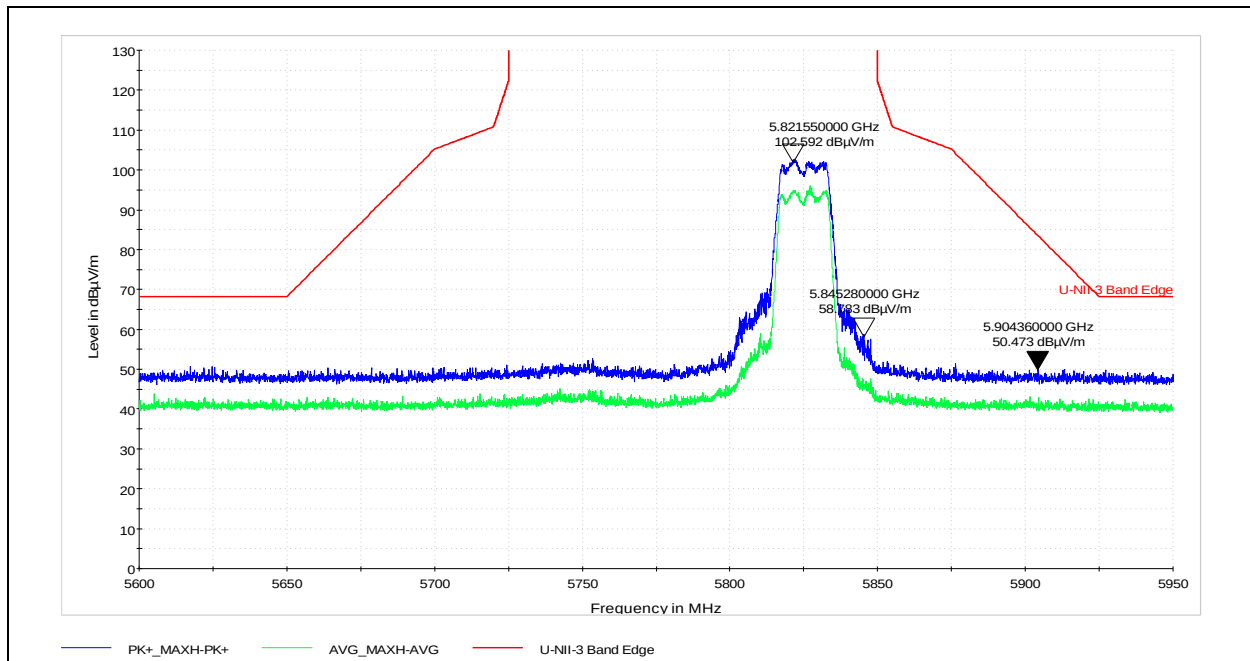


Horizontal

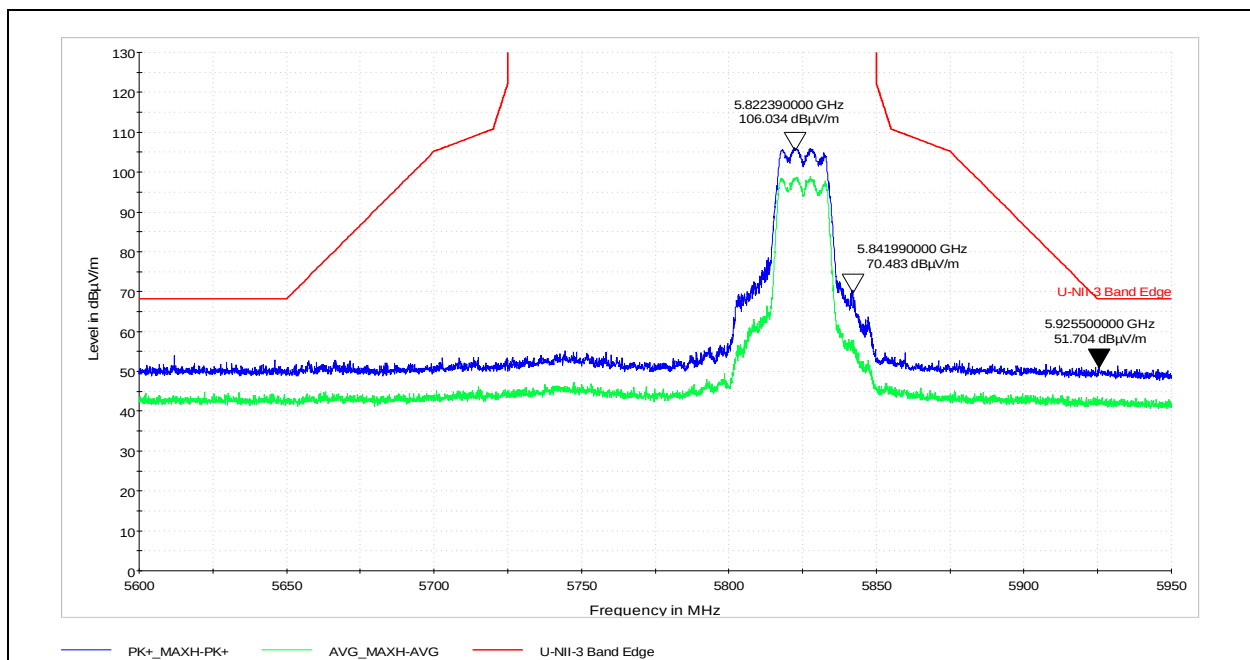
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11a, U-NII-3, Ch 165



Vertical

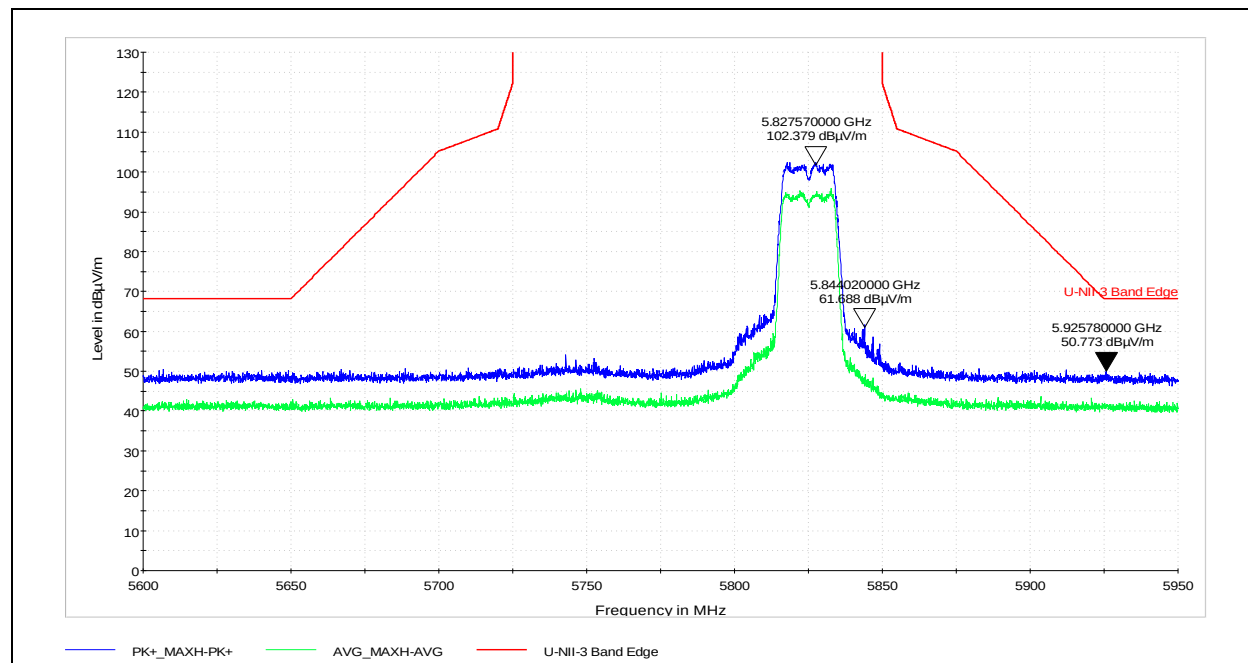


Horizontal

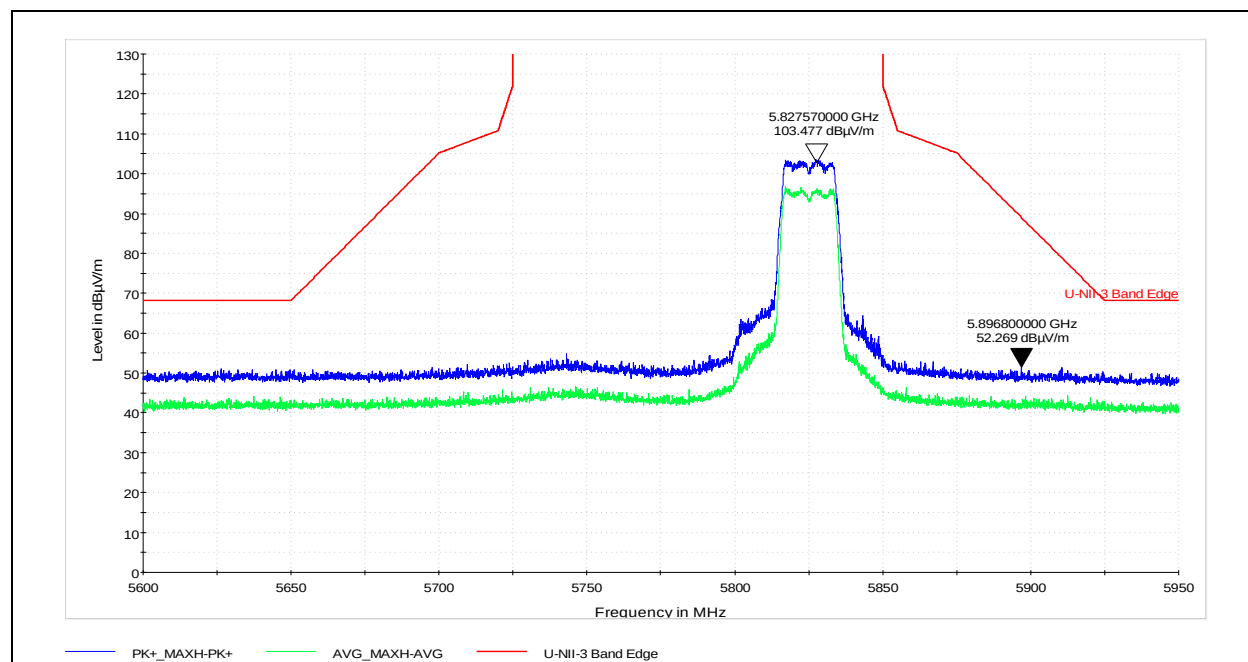
U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n (HT20), U-NII-3, Ch 165



Vertical

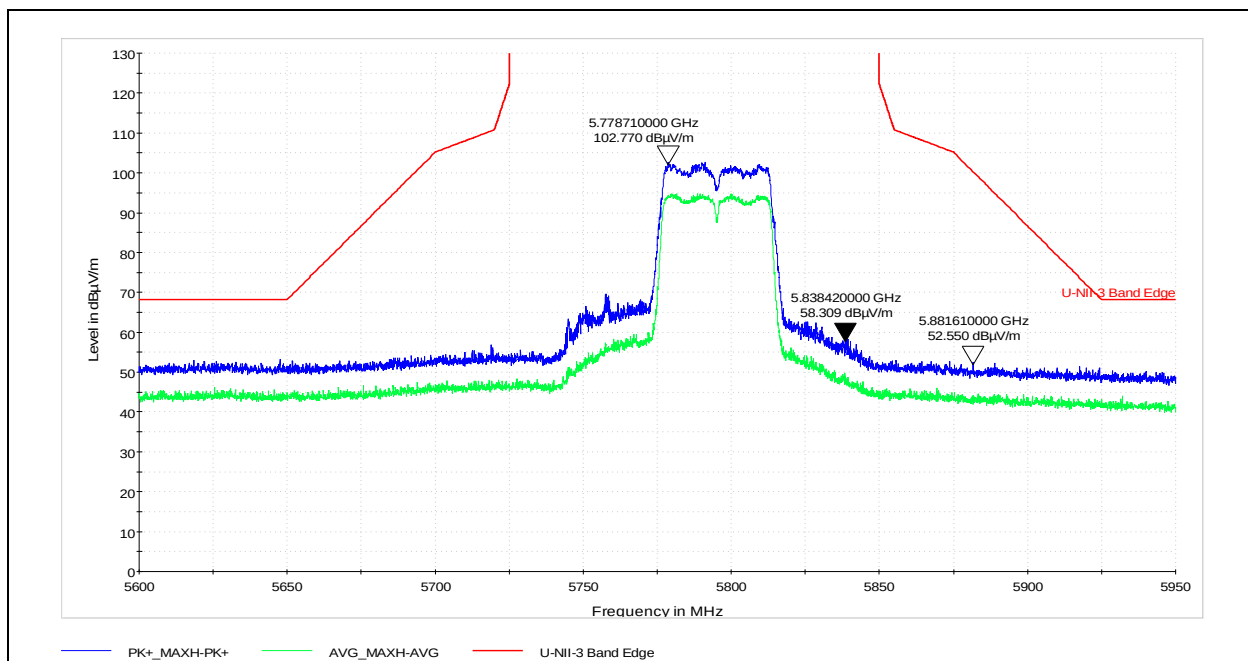
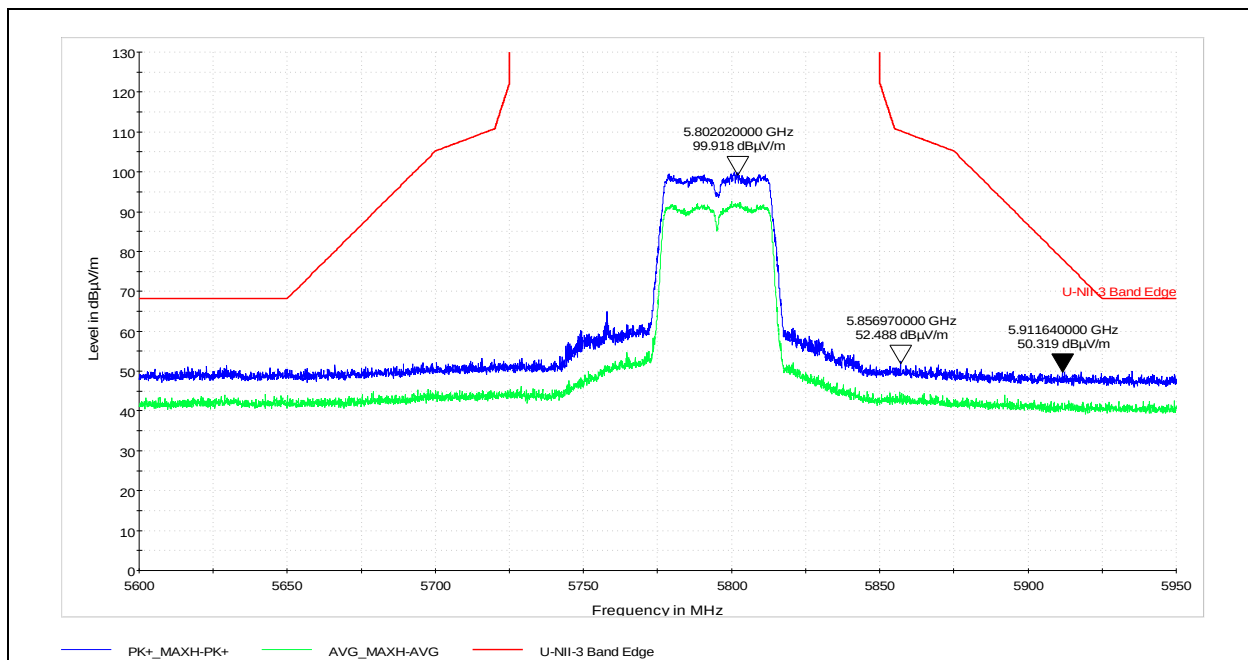


Horizontal

U-NII-3 Band Edge / Emission Mask

EUT Information

EUT Name: LEX-M07-001
Manufacturer: Lexmark
Test Engineer: Bryan Taylor
Date: 11/9/2017
Temp/Humidity/Pressure: 20.9C/45.2%/985.4mbar
Comment: 802.11n (HT40), U-NII-3, Ch 159



Horizontal

9 Radiated Spurious Emissions (Receiver)

9.1 Test Limits:

§ 15.109: Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

RSS-Gen (7.1.2): Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 5x the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz. Spurious emissions from receivers shall not exceed the radiated limits shown below:

Frequency of emission (MHz)	Field strength (microvolts/meter)	Field strength (dBuV/m)
30–88	100	40
88–216	150	43.5
216–960	200	46
Above 960	500	54

9.2 Test Procedure:

ANSI C63.4: 2014

9.3 Example of Field Strength Calculation Method:

The measured field strength was calculated by summing the readings taken from the spectrum analyzer with the appropriate correction factors associated with the antenna losses and cable losses. The calculation formula and sample calculations are listed below:

Formula:

$$FS = RA + AF + CF$$

FS = Field Strength in dBμV/m

RA = Receiver Amplitude in dBμV

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB (Including preamplifier and filter attenuation)

Example Calculation:

RA = 19.48 dBμV

AF = 18.52 dB

CF = 0.78 dB

$$FS = 19.48 + 18.52 + 0.78 = 38.78 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(38.78 \text{ dB}\mu\text{V/m})/20] = 86.89 \mu\text{V/m}$$

9.4 Test Equipment Used:

Description	Serial Number	Manufacturer	Model	Cal. Date	Cal. Due
EMI Test Receiver	1302.6005.40	Rohde & Schwarz	ESU40	10/12/2017	10/12/2018
Preamplifier	122005	Rohde&Schwarz	TS-PR18	11/17/2016	11/17/2017
Biconnilog Antenna	00051864	ETS	3142C	4/6/2017	4/6/2018
Horn Antenna	154521	ETS	3117	11/14/2016	11/14/2017
System Controller	121701-1	Sunol Sciences	SC99V	Verify at Time of Use	Verify at Time of Use
3m Cable Antenna→Preamp	3074			11/17/2016	11/17/2017
3m Cable Preamp→Chamber	2588			11/17/2016	11/17/2017
3m Cable Chamber→Control Room	2593			11/17/2016	11/17/2017
3m Cable Control Room→Receiver	2592			11/17/2016	11/17/2017
10m Cable Antenna→Preamp	3339			11/17/2016	11/17/2017
10m Cable Preamp→Chamber	3172			11/17/2016	11/17/2017
10m Cable Chamber→Control Room	2590			11/17/2016	11/17/2017
10m Cable Control Room→Receiver	2589			11/17/2016	11/17/2017

9.5 Test Results:

The device was found to be **compliant**. All spurious emissions with the test sample in receive mode were below the limits specified in Part 15.109 for a class B digital device and RSS-GEN Section 6.1.

9.6 Test Conditions:

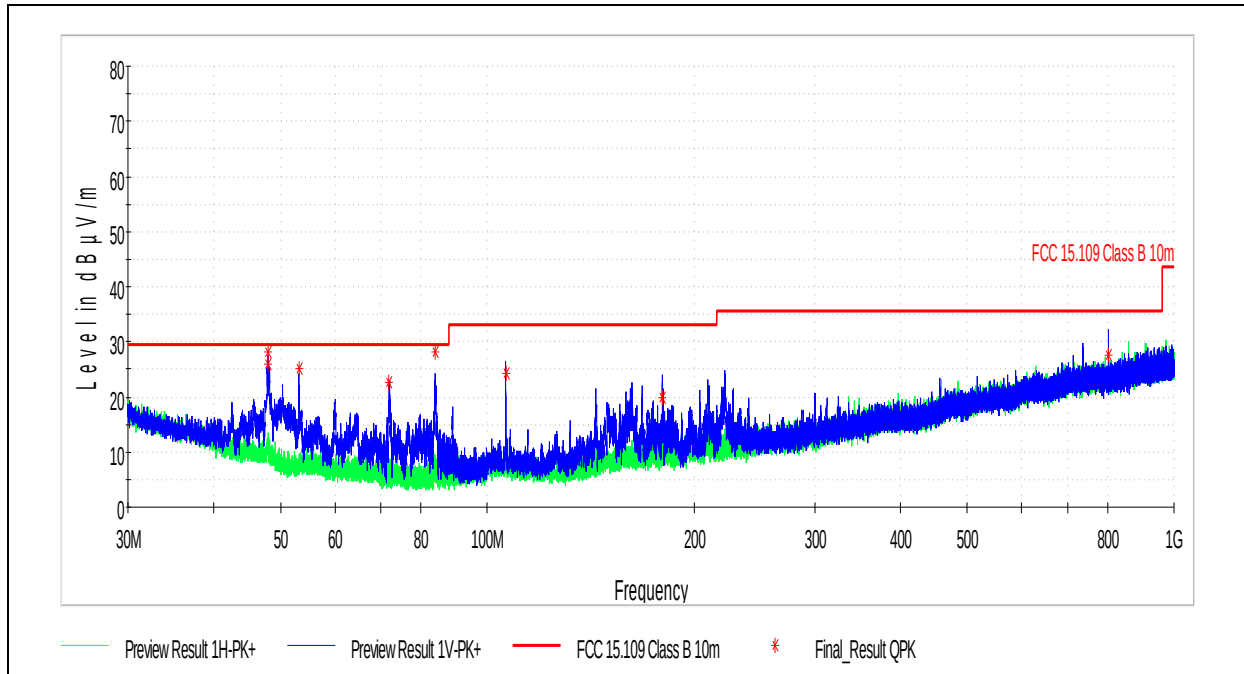
Test Personnel: Carmen Davis
 Supervising/Reviewing Engineer:
 (Where Applicable) NA
 Input Voltage: 5VDC via USB

Test Date: 10/24/2017
 Ambient Temperature: 22.4C
 Relative Humidity: 44.9%
 Atmospheric Pressure: 995.6mbar

9.7 Test Data:

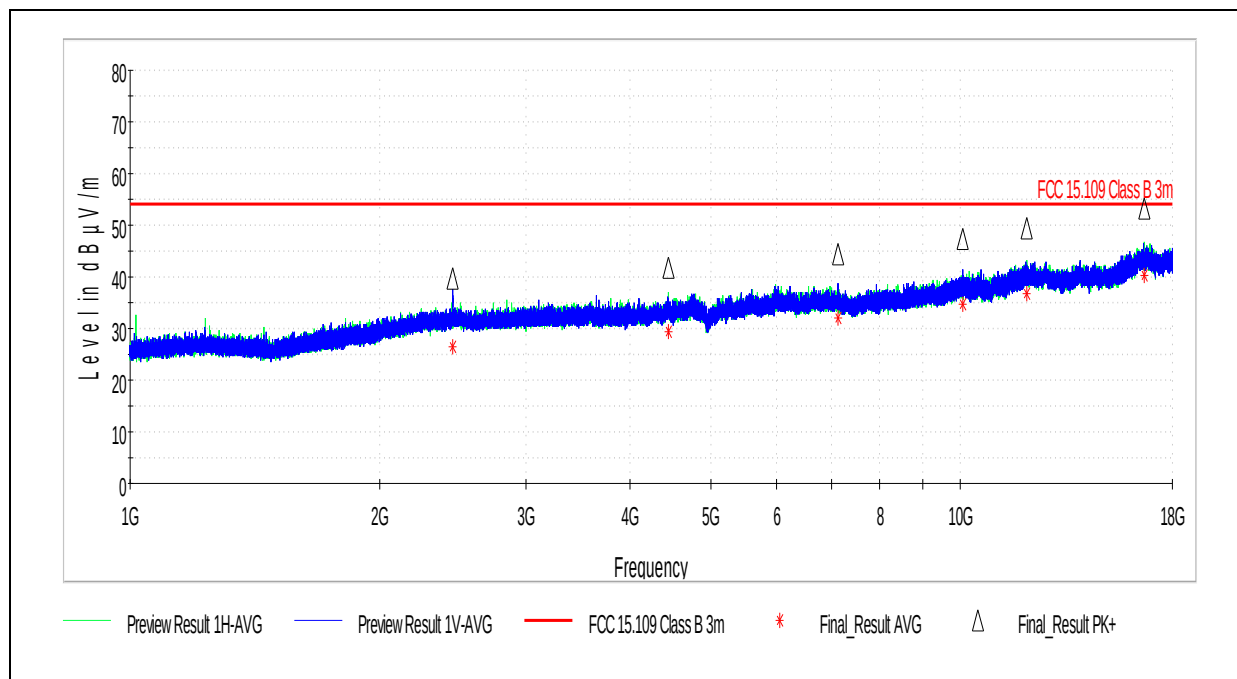
The worst case test data is shown below. Note that emissions were investigated with the test sample in its worst operating position across 3 orthogonal axes.

9.7.1 Receive / Idle Mode, Bilog:



Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
48.001600	28.26	29.55	1.29	120.000	343.8	V	0.0	-10.8
48.012300	26.03	29.55	3.52	120.000	337.0	V	94.0	-10.8
53.193700	25.01	29.55	4.54	120.000	100.5	V	244.0	-11.8
71.986100	22.64	29.55	6.91	120.000	181.9	V	0.0	-13.0
83.989200	28.16	29.55	1.39	120.000	139.4	V	0.0	-13.1
106.533600	24.34	33.10	8.76	120.000	99.6	V	0.0	-11.9
179.994000	19.99	33.10	13.11	120.000	104.9	V	60.0	-9.1
801.822000	27.71	35.55	7.84	120.000	110.2	V	274.0	6.5

9.7.2 Receive / Idle Mode, Horn:



Final Result PK+

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2447.233000	39.66	74.00	34.34	1000.000	166.0	V	50.0	3.9
4450.298000	41.86	74.00	32.14	1000.000	200.0	V	50.0	7.2
7122.561500	44.46	74.00	29.54	1000.000	177.0	V	19.0	10.2
10067.851000	47.45	74.00	26.55	1000.000	165.0	V	20.0	14.4
12028.892500	49.42	74.00	24.58	1000.000	135.0	V	50.0	17.4
16650.824000	53.21	74.00	20.79	1000.000	200.0	H	50.0	21.5

Final Result AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2447.233000	26.48	54.00	27.52	1000.000	166.0	V	50.0	3.9
4450.298000	29.32	54.00	24.68	1000.000	200.0	V	50.0	7.2
7122.561500	32.02	54.00	21.98	1000.000	177.0	V	19.0	10.2
10067.851000	34.56	54.00	19.44	1000.000	165.0	V	20.0	14.4
12028.892500	36.89	54.00	17.11	1000.000	135.0	V	50.0	17.4
16650.824000	40.36	54.00	13.64	1000.000	200.0	H	50.0	21.5

10 AC Powerline Conducted Emissions

10.1 Test Limits:

§ 15.107(e): Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

RSS-Gen (8.8): A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits in Table 3. Unless the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The more stringent limit applies at the frequency range boundaries.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

10.2 Test Procedure:

ANSI C63.4: 2014

10.3 Test Equipment Used:

Description	Serial Number	Manufacturer	Model	Cal. Date	Cal. Due
EMI Test Receiver	1302.6005.40	Rohde & Schwarz	ESU40	10/12/2017	10/12/2018
LISN	3333	Teseq	NNB52	6/15/2017	6/15/2018
3m Cable Antenna→ Bulkhead	3074			11/17/2016	11/17/2017
3m Cable Bulkhead→ Chamber	2588			11/17/2016	11/17/2017
3m Cable Chamber→ Control Room	2593			11/17/2016	11/17/2017
3m Cable Control Room→Receiver	2592			11/17/2016	11/17/2017

10.4 Test Results:

The device was found to be **compliant**.

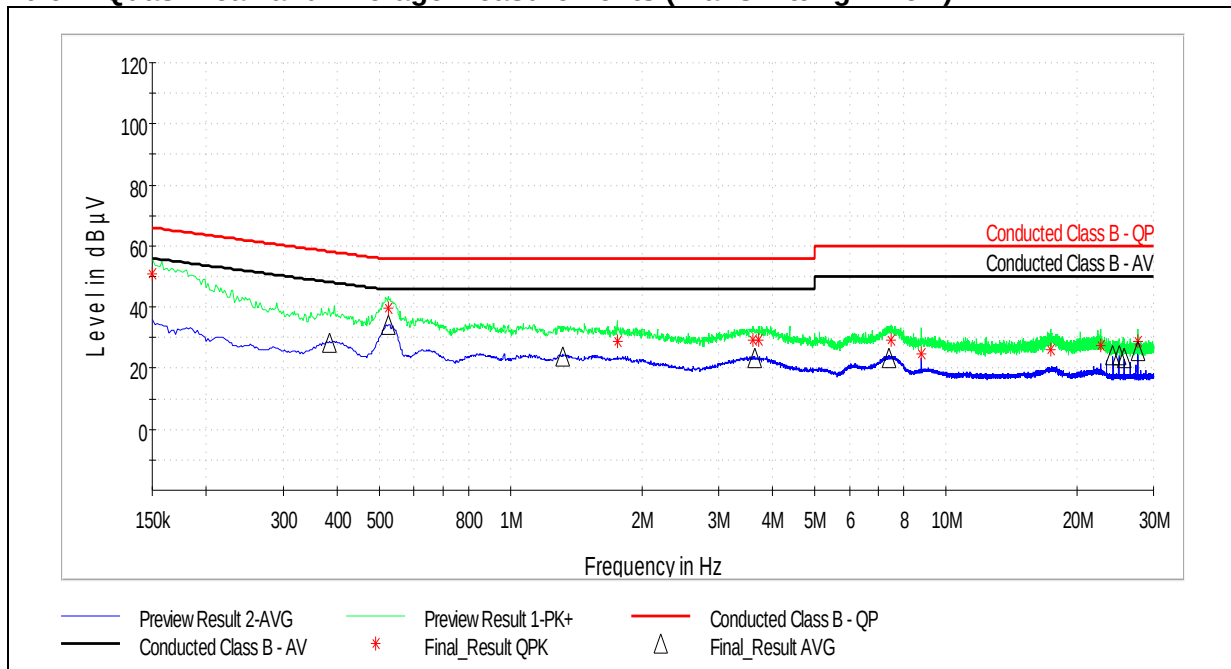
10.5 Test Conditions:

Test Personnel: Carmen Davis
 Supervising/Reviewing Engineer:
 (Where Applicable) NA
 120VAC Input to
 Input Voltage: Laptop

Test Date: 10/24/2017
 Ambient Temperature: 22.4C
 Relative Humidity: 44.9%
 Atmospheric Pressure: 995.6mbar

10.6 Test Data:

10.6.1 Quasi-Peak and Average Measurements (Transmitting Line 1):



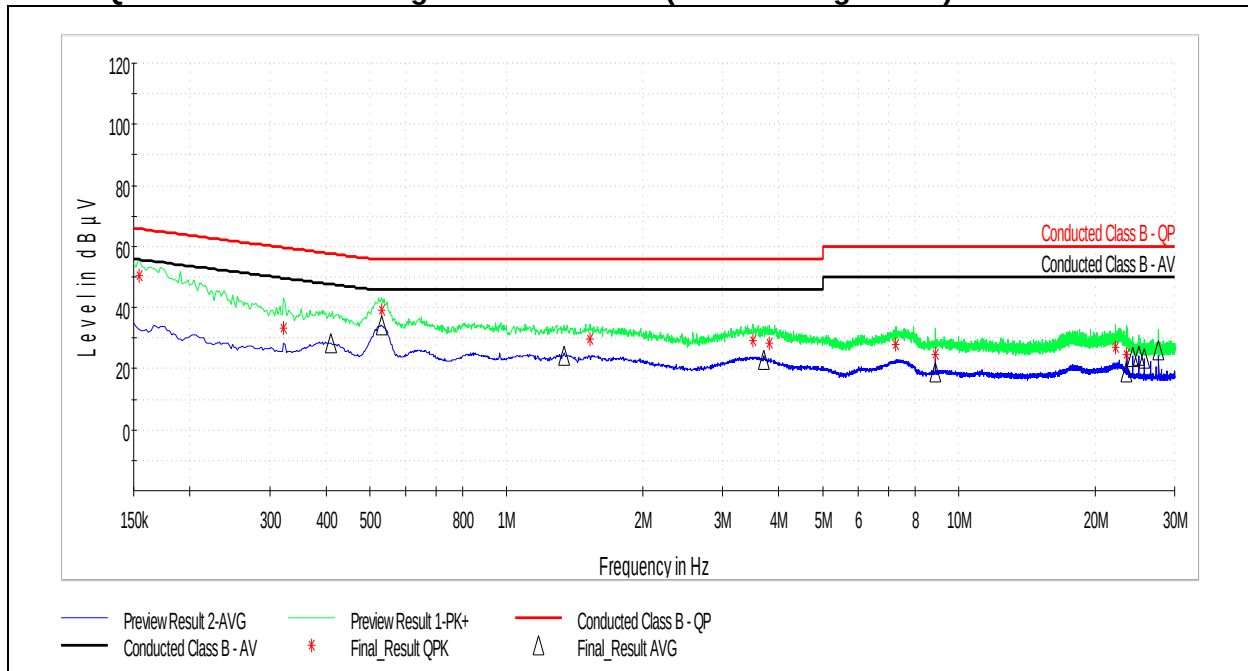
Final_Result_QPK

Frequency (MHz)	QuasiPeak (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)
0.150000	51.00	66.00	15.00	9.000
0.522000	39.46	56.00	16.54	9.000
1.756000	28.97	56.00	27.03	9.000
3.596000	29.24	56.00	26.76	9.000
3.720000	29.30	56.00	26.70	9.000
7.484000	29.42	60.00	30.58	9.000
8.792000	24.75	60.00	35.25	9.000
17.388000	26.29	60.00	33.71	9.000
22.656000	27.28	60.00	32.72	9.000
27.648000	28.66	60.00	31.34	9.000

Final_Result_AVG

Frequency (MHz)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)
0.384000	28.22	48.19	19.97	9.000
0.524000	34.11	46.00	11.89	9.000
1.316000	24.02	46.00	21.98	9.000
3.628000	23.24	46.00	22.76	9.000
7.384000	23.52	50.00	26.48	9.000
24.192000	24.32	50.00	25.68	9.000
24.960000	24.40	50.00	25.60	9.000
25.728000	23.34	50.00	26.66	9.000
27.648000	25.82	50.00	24.18	9.000

10.6.2 Quasi-Peak and Average Measurements (Transmitting Line 2):

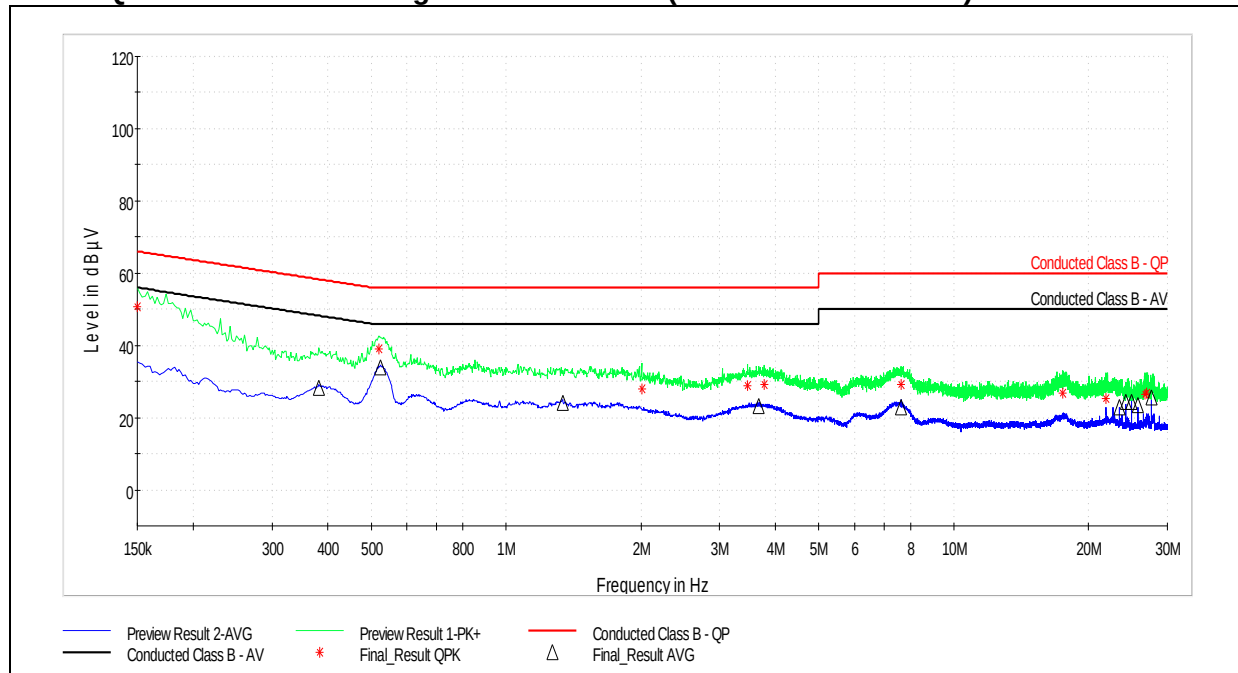


Final Result QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)
0.154000	50.52	65.78	15.26	9.000
0.322000	33.17	59.66	26.49	9.000
0.530000	39.34	56.00	16.66	9.000
1.532000	29.61	56.00	26.39	9.000
3.504000	29.13	56.00	26.87	9.000
3.812000	28.51	56.00	27.49	9.000
7.244000	27.95	60.00	32.05	9.000
8.872000	24.90	60.00	35.10	9.000
22.196000	26.77	60.00	33.23	9.000
23.500000	24.70	60.00	35.30	9.000

Final Result AVG

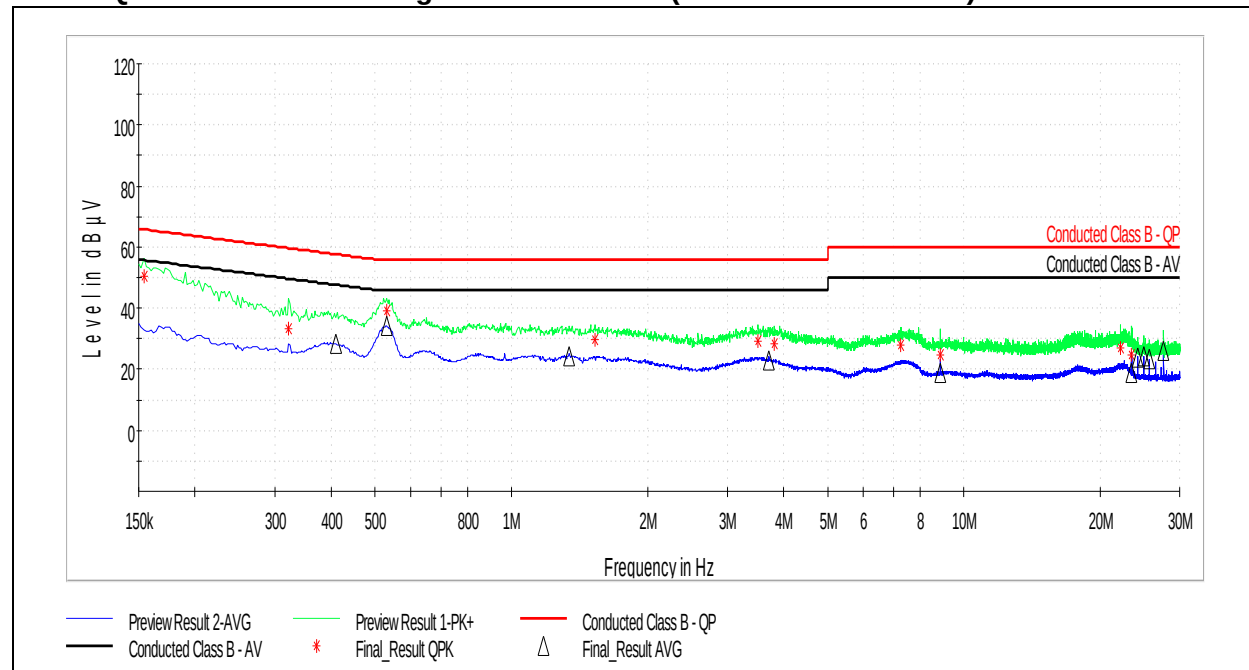
Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)
0.410000	28.26	47.65	19.39	9.000
0.530000	34.01	46.00	11.99	9.000
1.340000	24.28	46.00	21.72	9.000
3.712000	23.03	46.00	22.97	9.000
8.872000	18.76	50.00	31.24	9.000
23.500000	18.82	50.00	31.18	9.000
24.192000	24.03	50.00	25.97	9.000
24.960000	24.14	50.00	25.86	9.000
25.728000	23.15	50.00	26.85	9.000
27.648000	26.29	50.00	23.71	9.000

10.6.3 Quasi-Peak and Average Measurements (Receive Mode Line 1):**Final_Result_QPK**

Frequency (MHz)	QuasiPeak (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)
0.150000	50.78	66.00	15.22	9.000
0.520000	39.08	56.00	16.92	9.000
2.008000	28.10	56.00	27.90	9.000
3.460000	28.82	56.00	27.18	9.000
3.768000	29.25	56.00	26.75	9.000
7.612000	29.25	60.00	30.75	9.000
17.504000	26.86	60.00	33.14	9.000
21.896000	25.35	60.00	34.65	9.000
26.712000	26.35	60.00	33.65	9.000
26.944000	26.76	60.00	33.24	9.000

Final_Result_AVG

Frequency (MHz)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)
0.382000	28.16	48.24	20.08	9.000
0.524000	34.05	46.00	11.95	9.000
1.336000	24.11	46.00	21.89	9.000
3.668000	23.26	46.00	22.74	9.000
7.628000	23.01	50.00	26.99	9.000
23.424000	22.88	50.00	27.12	9.000
24.192000	24.29	50.00	25.71	9.000
24.960000	24.38	50.00	25.62	9.000
25.728000	23.43	50.00	26.57	9.000
27.648000	25.52	50.00	24.48	9.000

10.6.4 Quasi-Peak and Average Measurements (Receive Mode Line 2):**Final Result QPK**

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)
0.154000	50.52	65.78	15.26	9.000
0.322000	33.17	59.66	26.49	9.000
0.530000	39.34	56.00	16.66	9.000
1.532000	29.61	56.00	26.39	9.000
3.504000	29.13	56.00	26.87	9.000
3.812000	28.51	56.00	27.49	9.000
7.244000	27.95	60.00	32.05	9.000
8.872000	24.90	60.00	35.10	9.000
22.196000	26.77	60.00	33.23	9.000
23.500000	24.70	60.00	35.30	9.000

Final Result AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)
0.410000	28.26	47.65	19.39	9.000
0.530000	34.01	46.00	11.99	9.000
1.340000	24.28	46.00	21.72	9.000
3.712000	23.03	46.00	22.97	9.000
8.872000	18.76	50.00	31.24	9.000
23.500000	18.82	50.00	31.18	9.000
24.192000	24.03	50.00	25.97	9.000
24.960000	24.14	50.00	25.86	9.000
25.728000	23.15	50.00	26.85	9.000
27.648000	26.29	50.00	23.71	9.000

11 Antenna Requirement per FCC Part 15.203

11.1 Test Limits:

§ 15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

RSS-Gen (8.3): Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. 8 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

11.2 Test Results:

The device was found to be **compliant**. The sample tested met the antenna requirement. The antenna used was permanently attached and internal to the unit.

11.3 Test Conditions:

Test Personnel: Brian Lackey
Supervising/Reviewing
Engineer:
(Where Applicable) NA
Input Voltage: 5VDC via USB

Test Date: 10/24/2017
Ambient Temperature: 22.4C
Relative Humidity: 44.9%
Atmospheric Pressure: 995.6mbar

12 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements.

The measurement uncertainty figures were calculated and correspond to a coverage factor of $k = 2$, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Measurement uncertainty Table

Parameter	Uncertainty	Notes
Radiated emissions, 30 to 1000 MHz	$\pm 3.9\text{dB}$	
Radiated emissions, 1 to 18 GHz	$\pm 4.2\text{dB}$	
Radiated emissions, 18 to 40 GHz	$\pm 4.3\text{dB}$	
Power Port Conducted emissions, 150kHz to 30 MHz	$\pm 2.8\text{dB}$	

13 Revision History

Revision Level	Date	Report Number	Notes
0	1/10/2018	103264009LEX-002	Original Issue