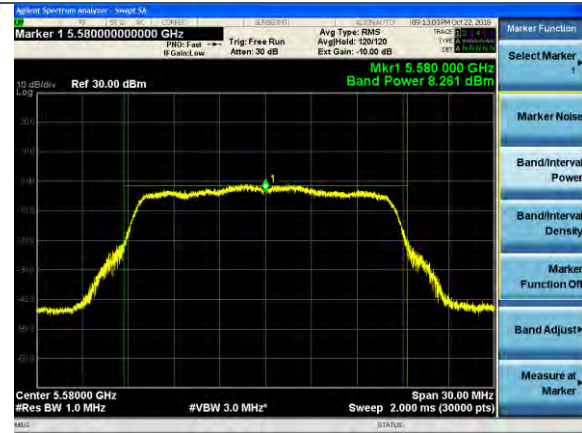




Low Channel

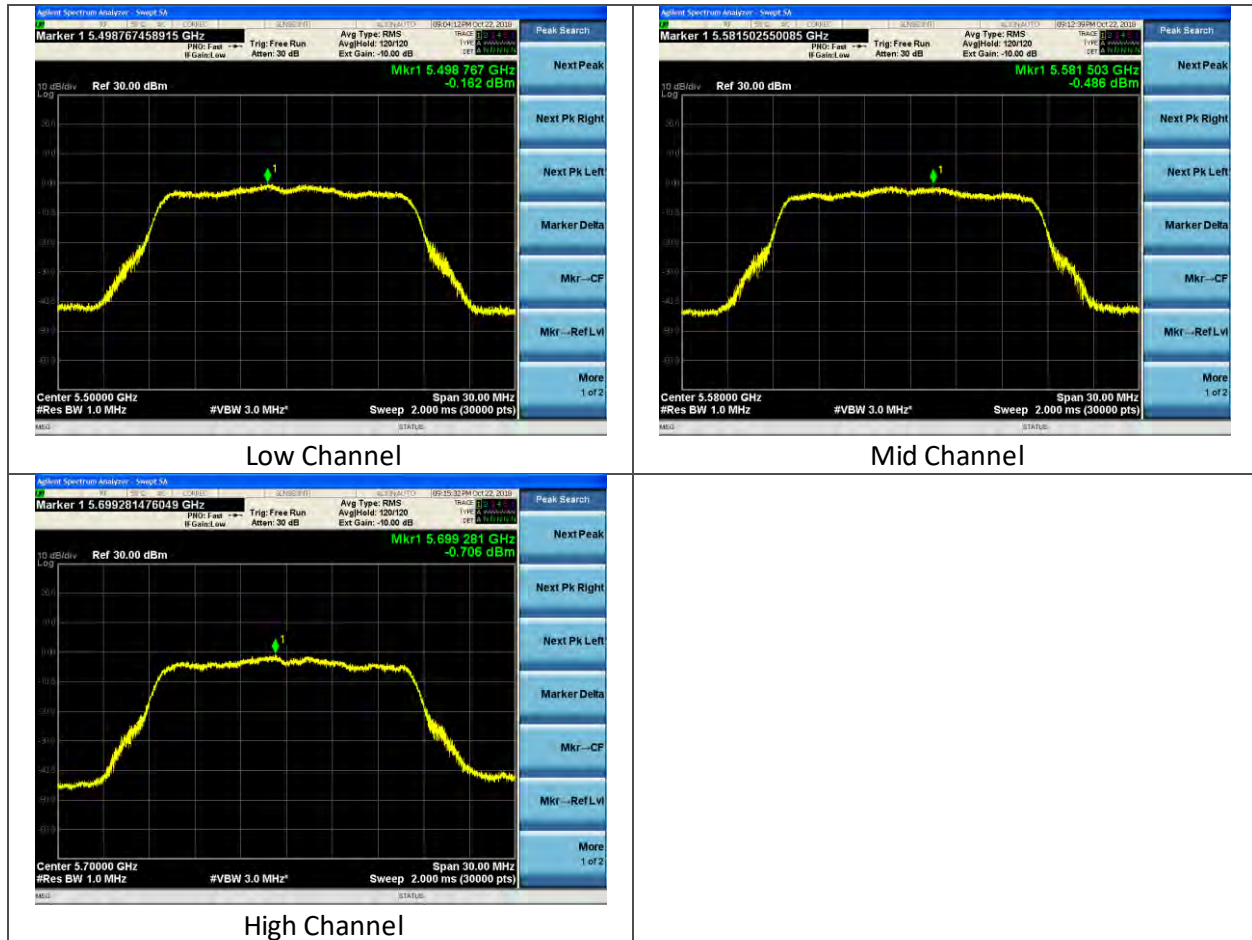


Mid Channel



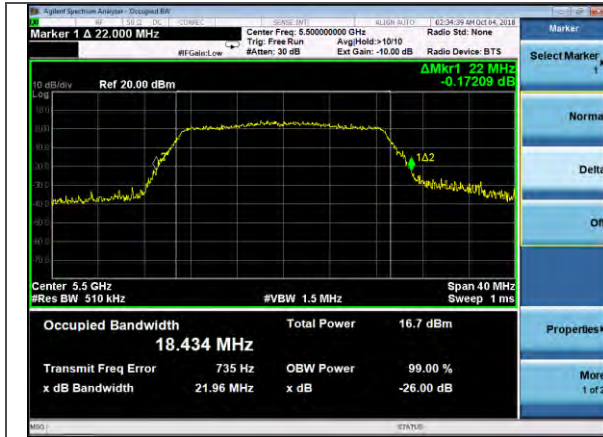
High Channel

Peak Power Spectral Density

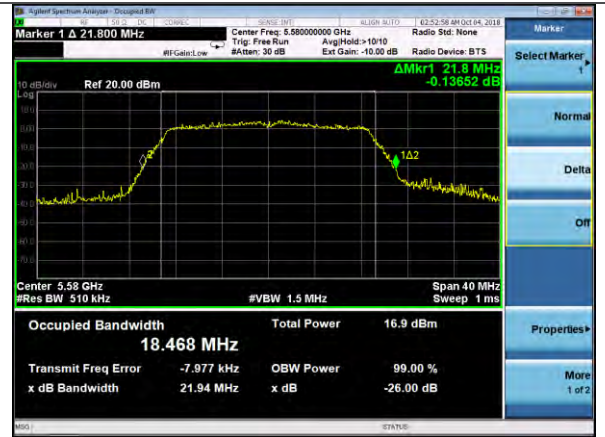


802.11n MCS0 - 20 MHz

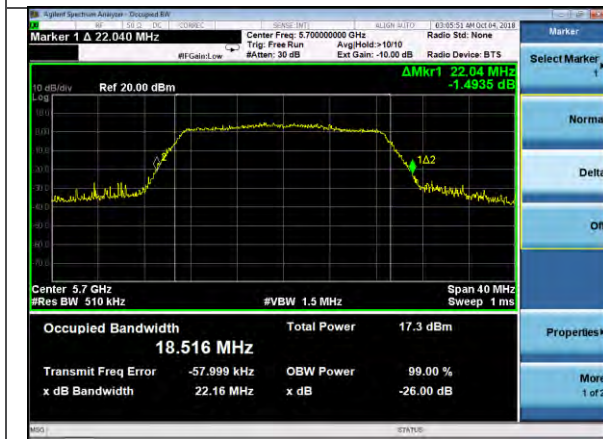
Bandwidth



Low Channel

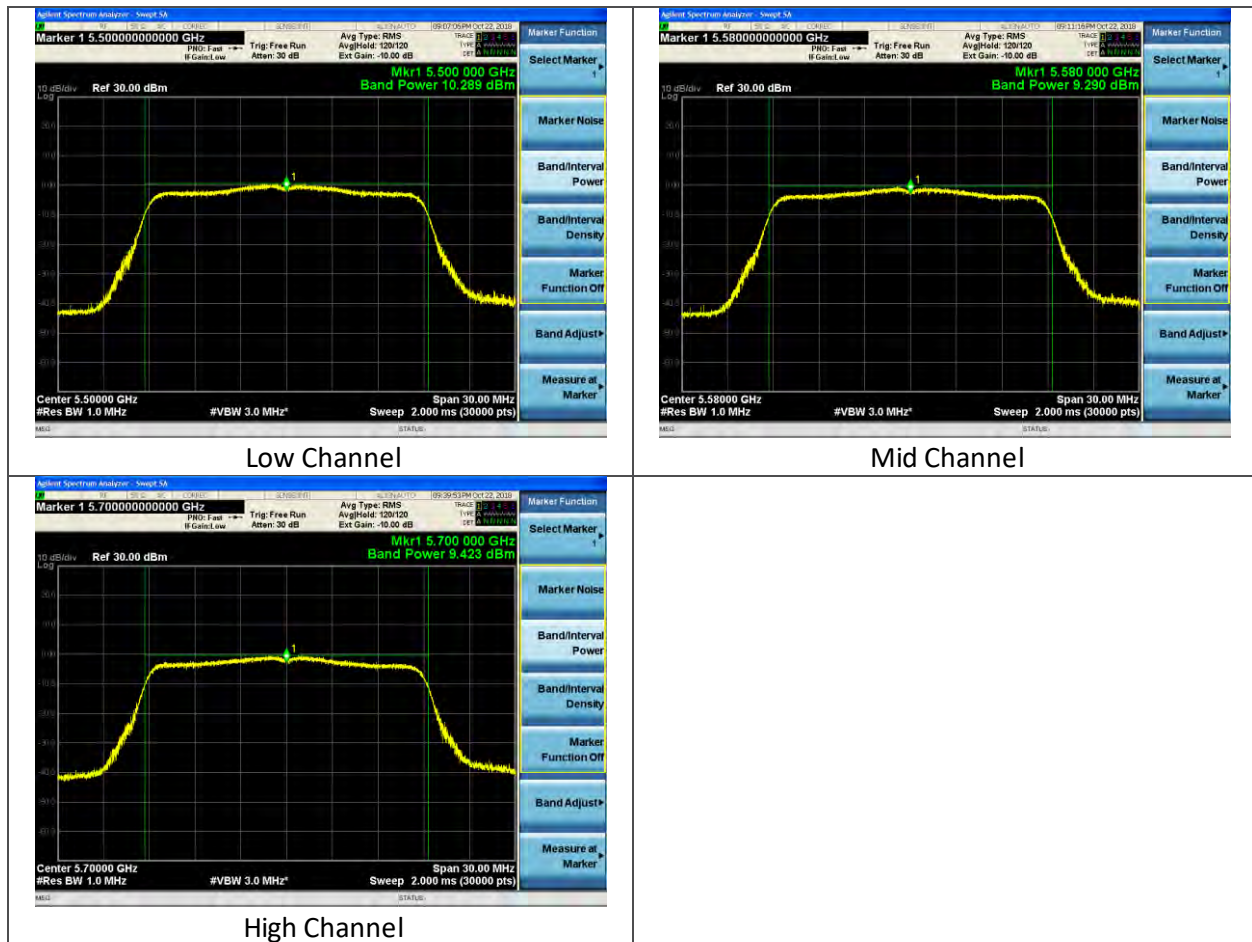


Mid Channel

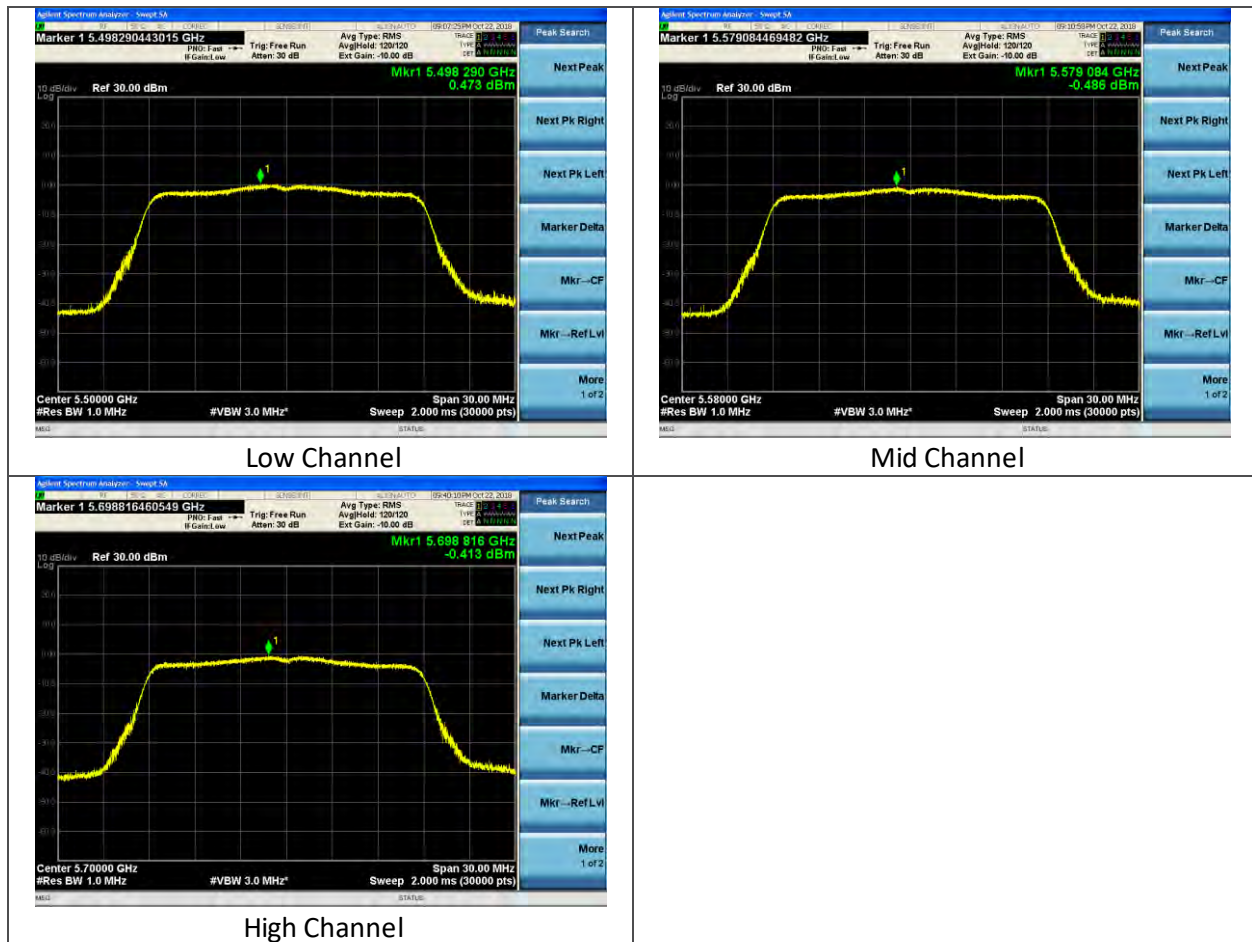


High Channel

Conducted Output Power

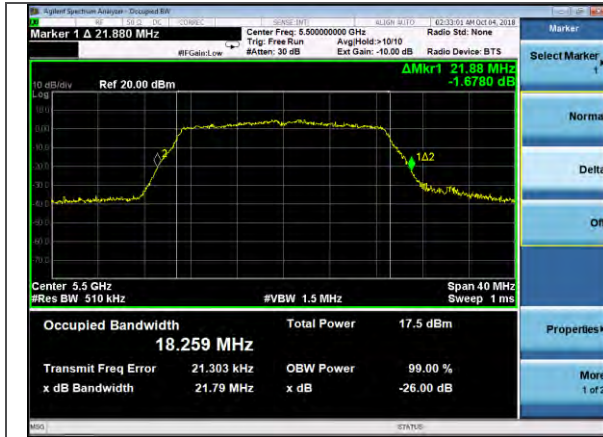


Peak Power Spectral Density

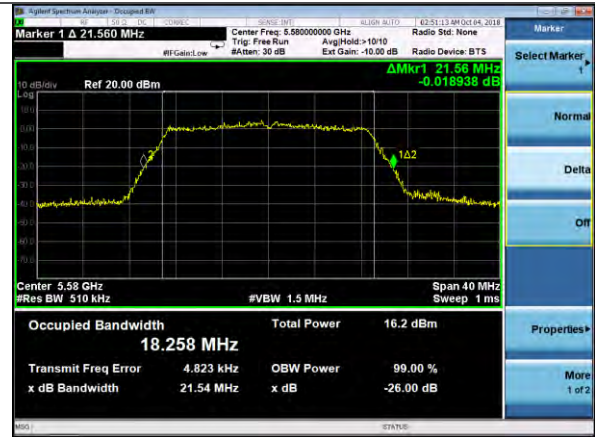


802.11n MCS7 - 20 MHz

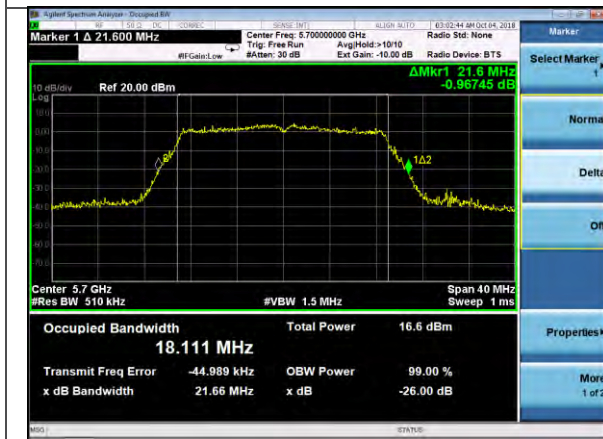
Bandwidth



Low Channel

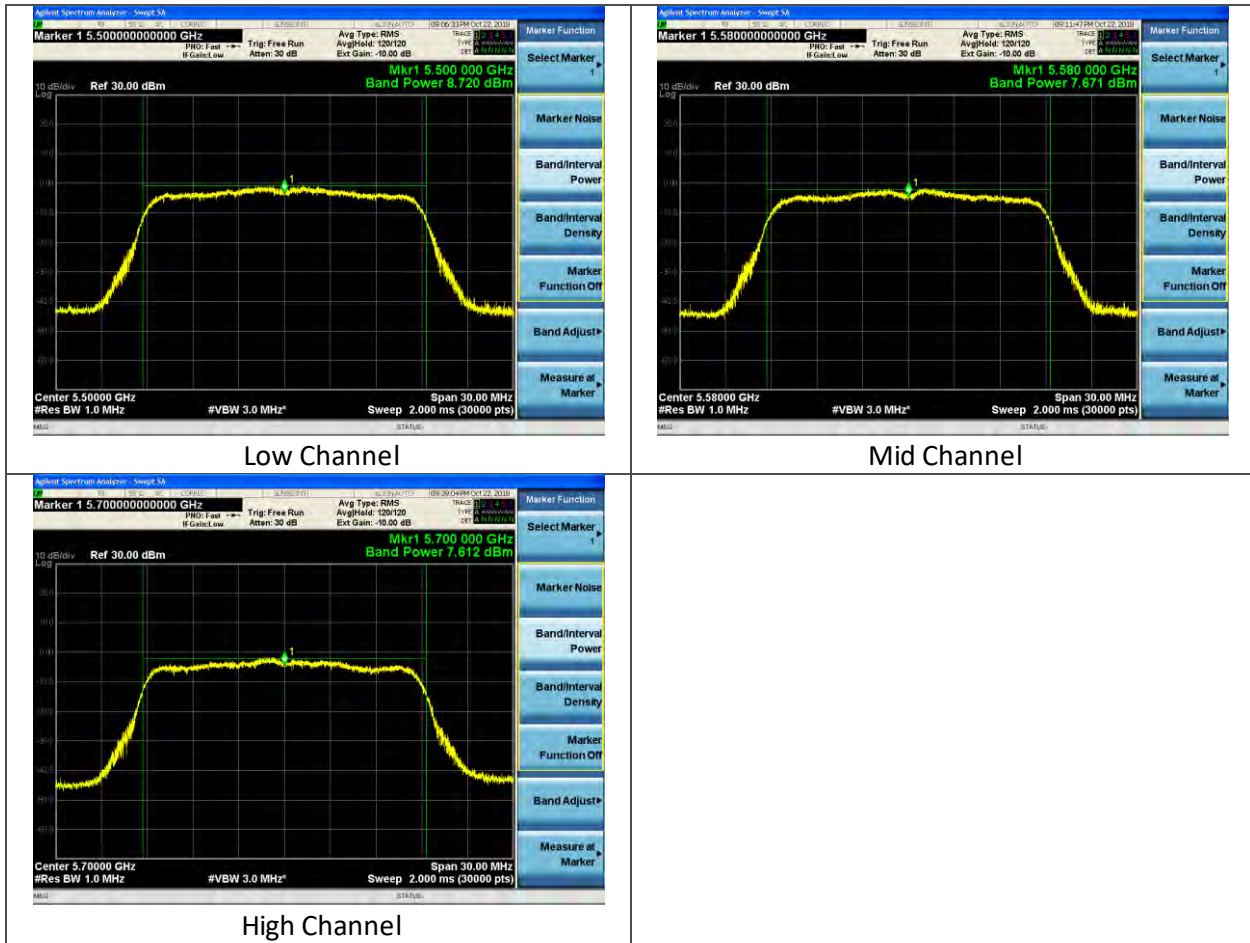


Mid Channel

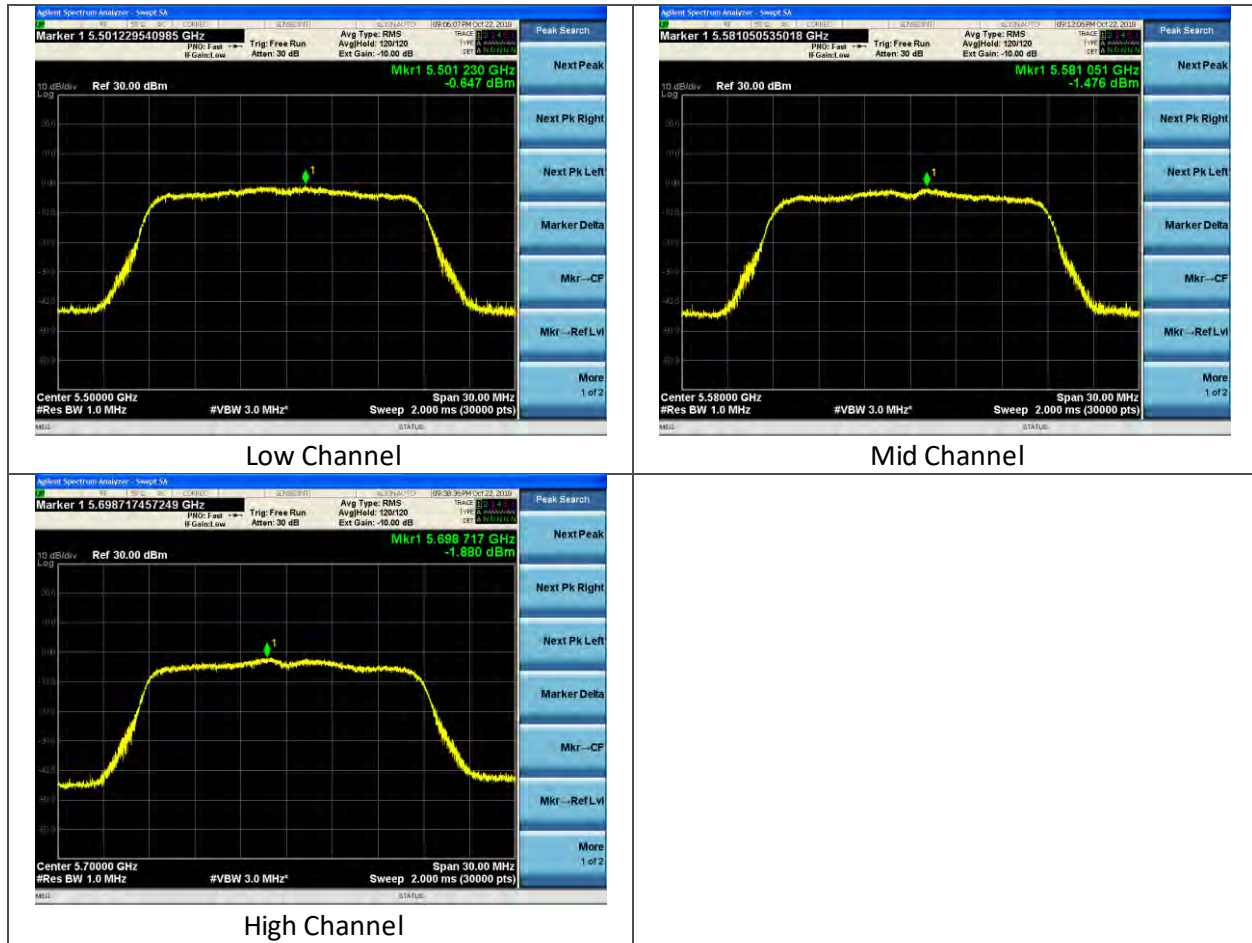


High Channel

Conducted Output Power

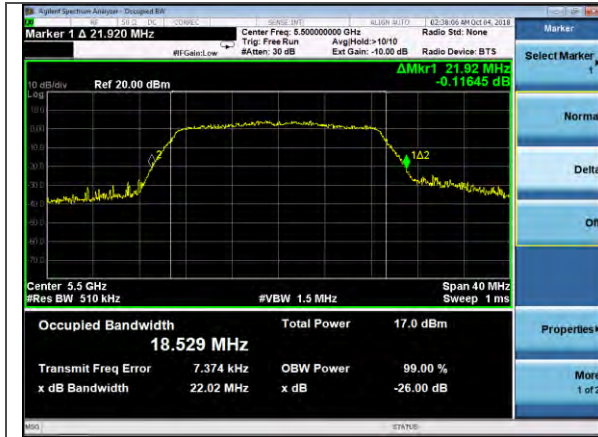


Peak Power Spectral Density

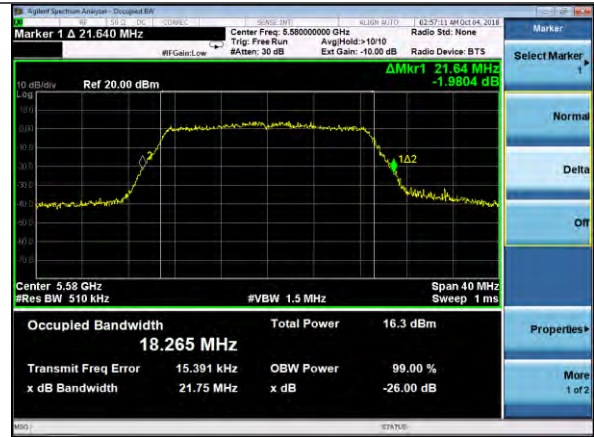


802.11ac MCS8 - 20 MHz

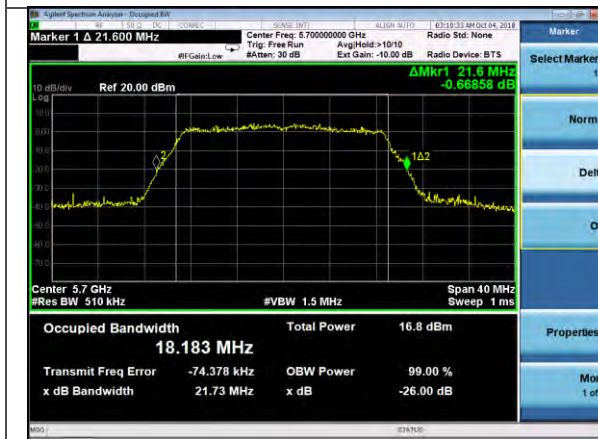
Bandwidth



Low Channel



Mid Channel



High Channel

Conducted Output Power

Company: Philips North America LLC	Page 95 of 228	Name: PHC-11AC1-A
Report: 317347 A		Model: PHC-11AC1-A
Job: C-3013		Serial: Engineering Samples



Low Channel



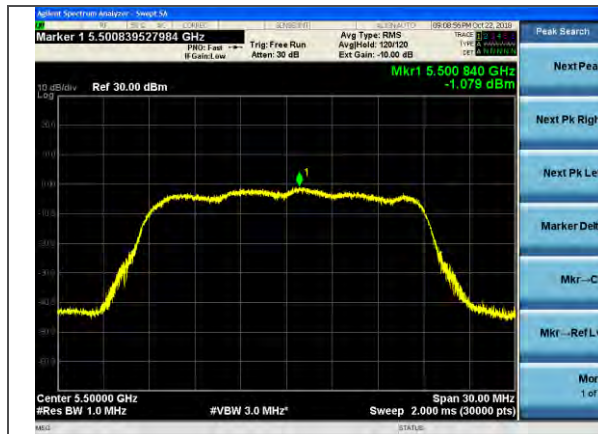
Mid Channel



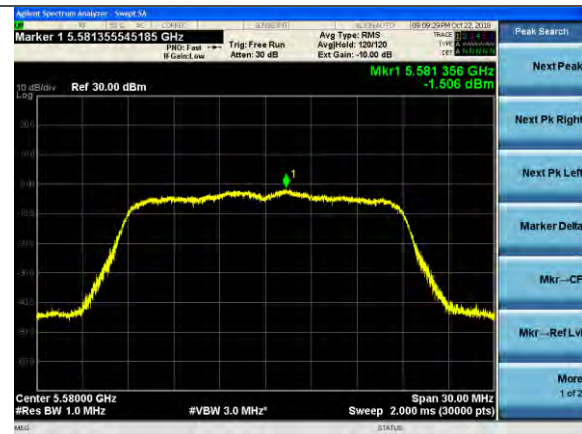
High Channel

Peak Power Spectral Density

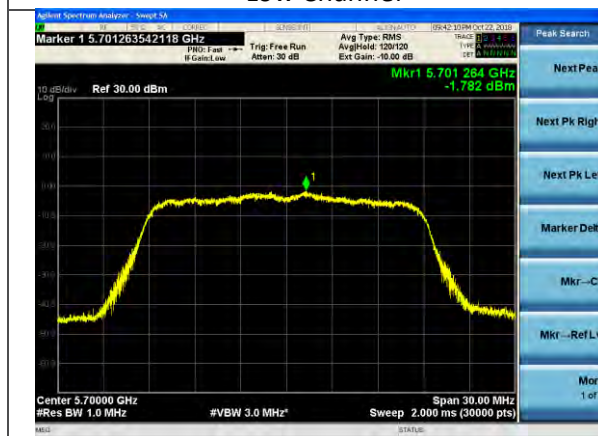
Company: Philips North America LLC	Page 96 of 228	Name: PHC-11AC1-A
Report: 317347 A		Model: PHC-11AC1-A
Job: C-3013		Serial: Engineering Samples



Low Channel



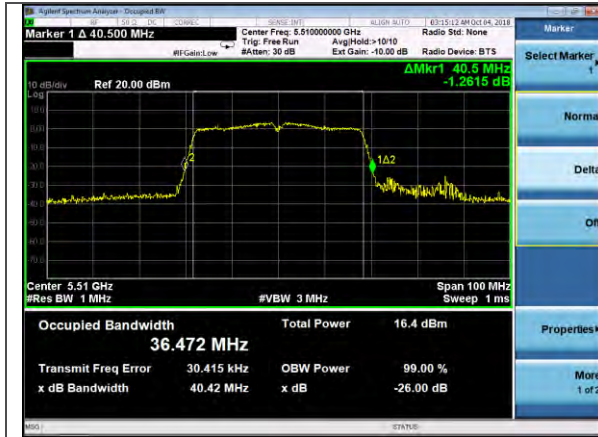
Mid Channel



High Channel

802.11ac MCS0 - 40 MHz

Bandwidth



Low Channel

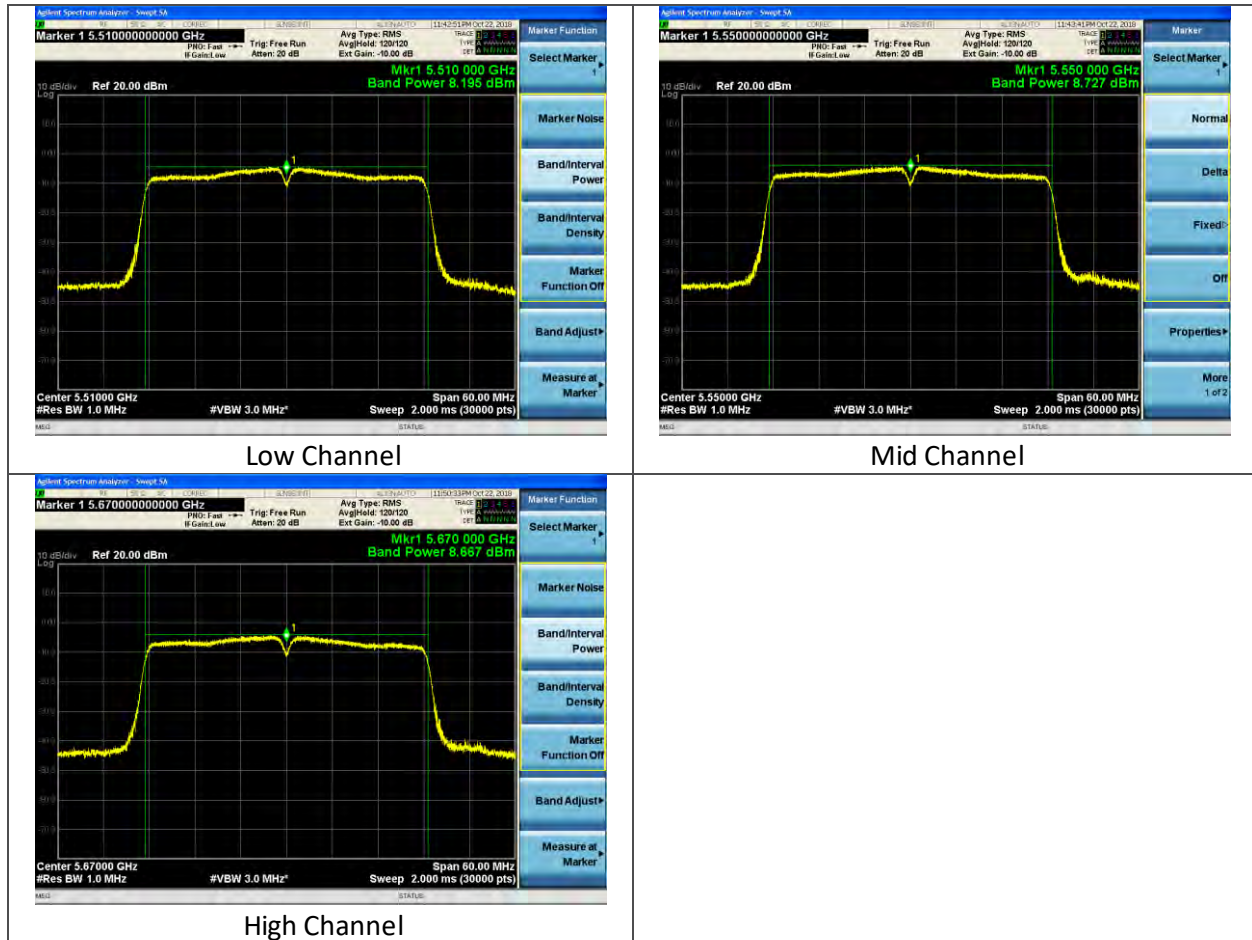


Mid Channel

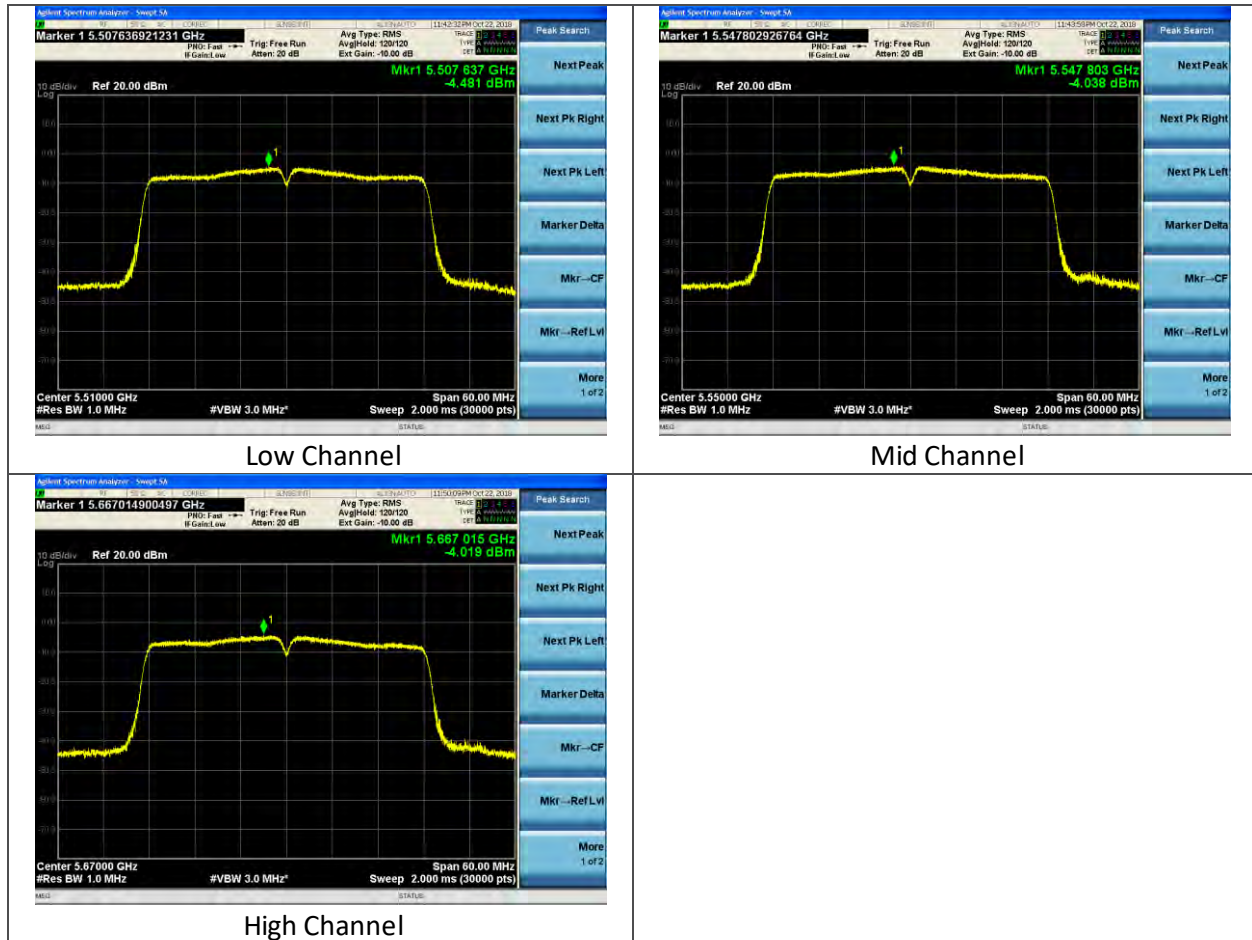


High Channel

Conducted Output Power

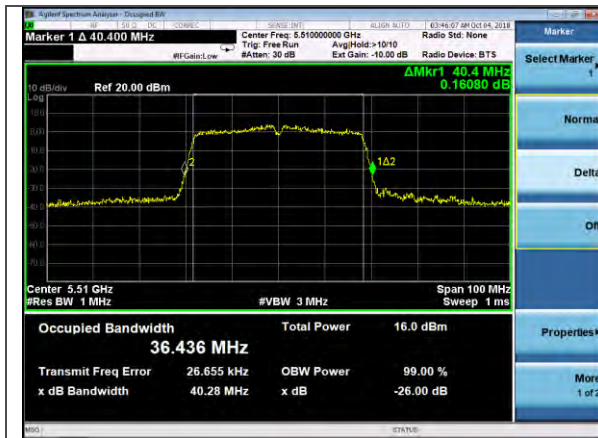


Peak Power Spectral Density



802.11ac MCS7 - 40 MHz

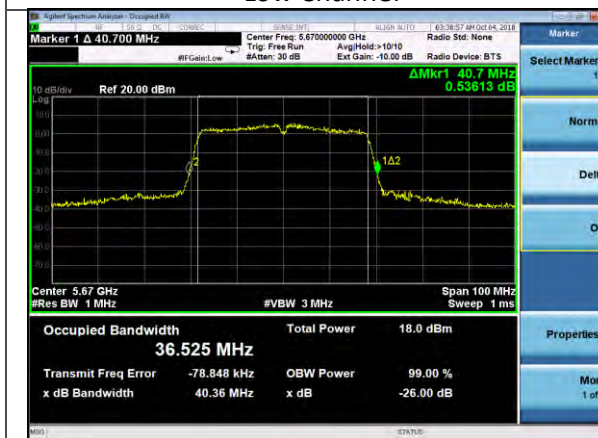
Bandwidth



Low Channel

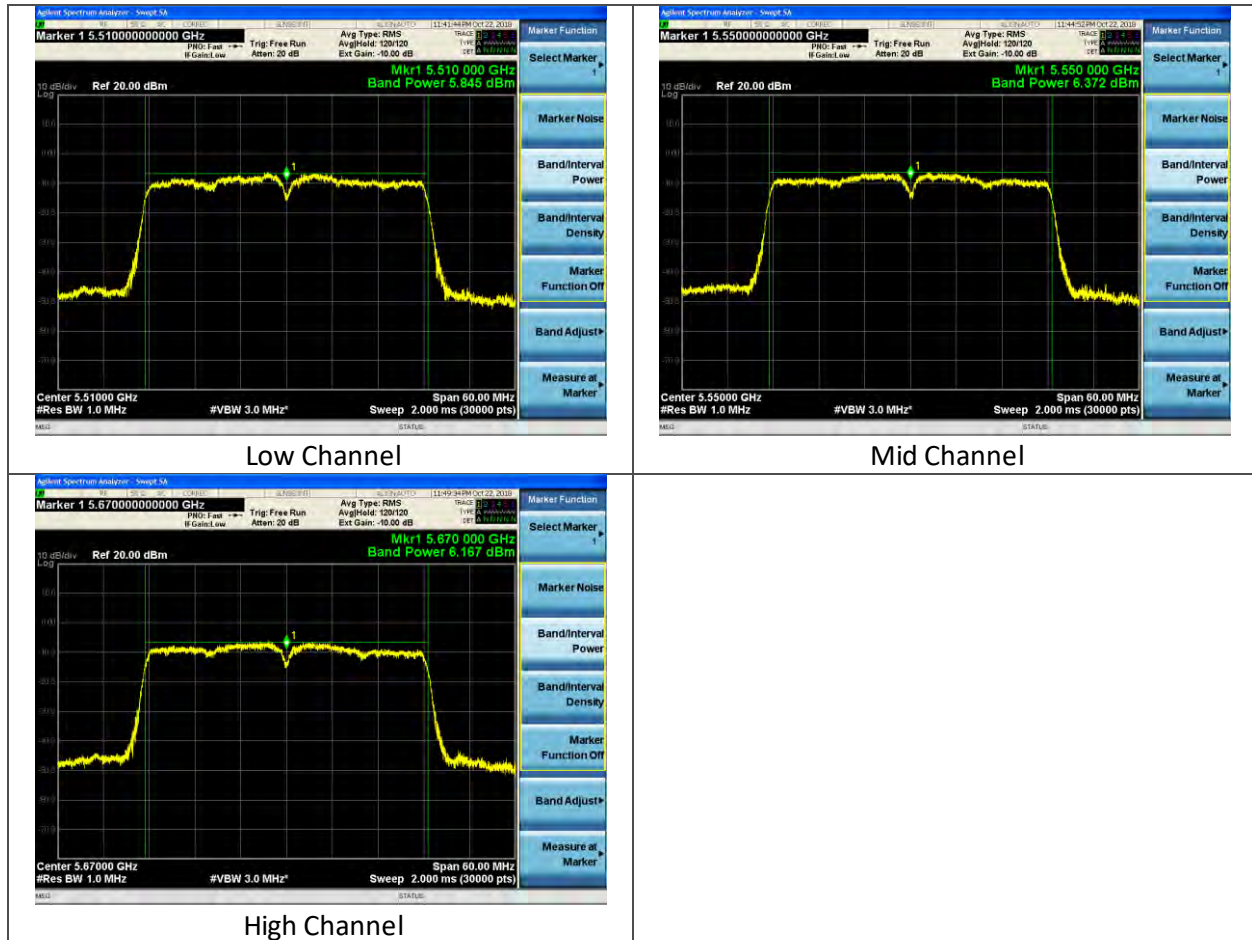


Mid Channel

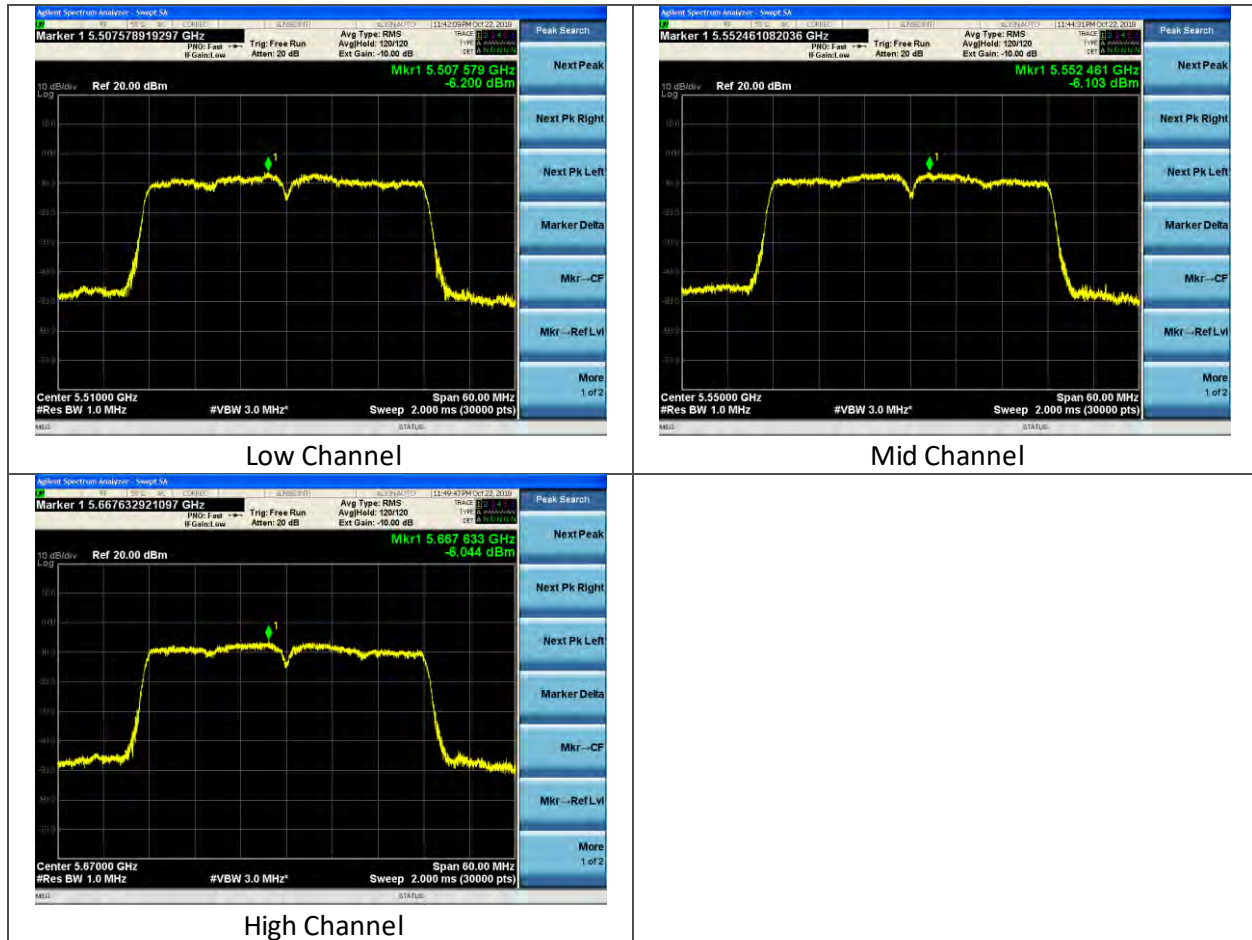


High Channel

Conducted Output Power

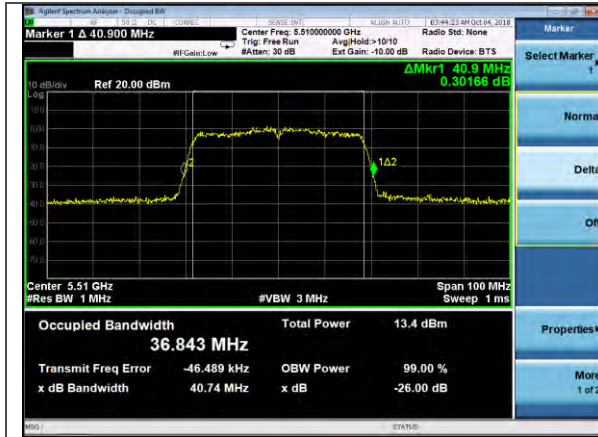


Peak Power Spectral Density



802.11ac MCS9 - 40 MHz

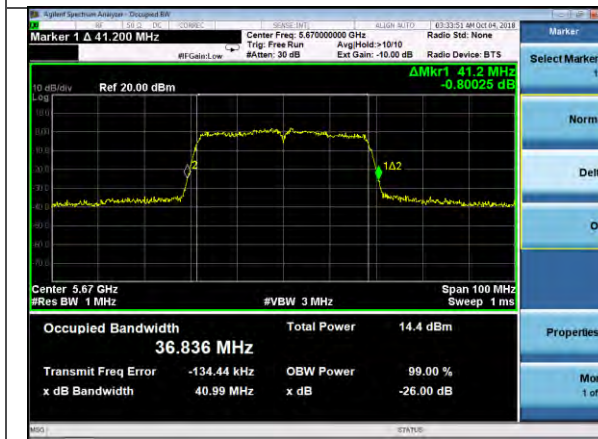
Bandwidth



Low Channel

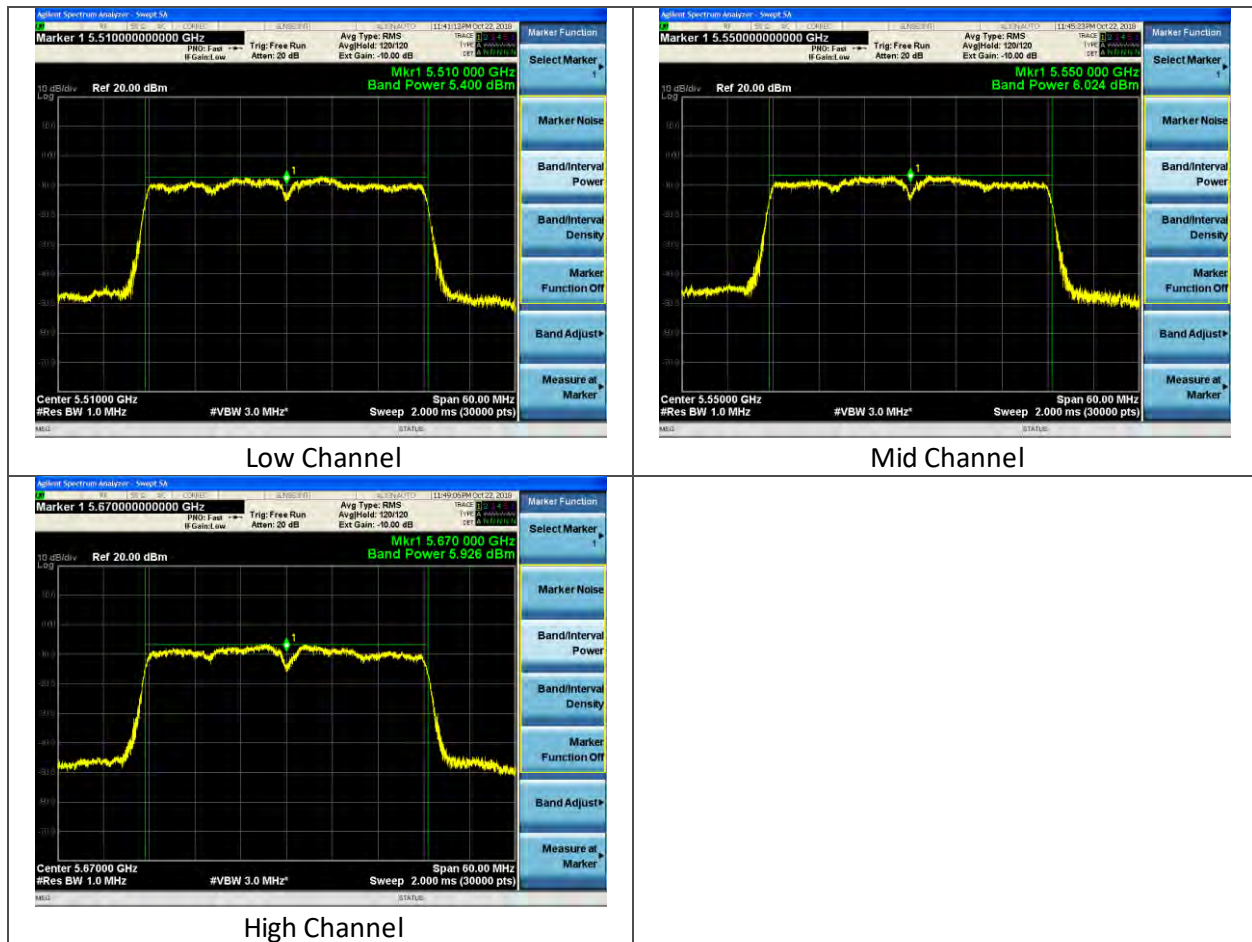


Mid Channel

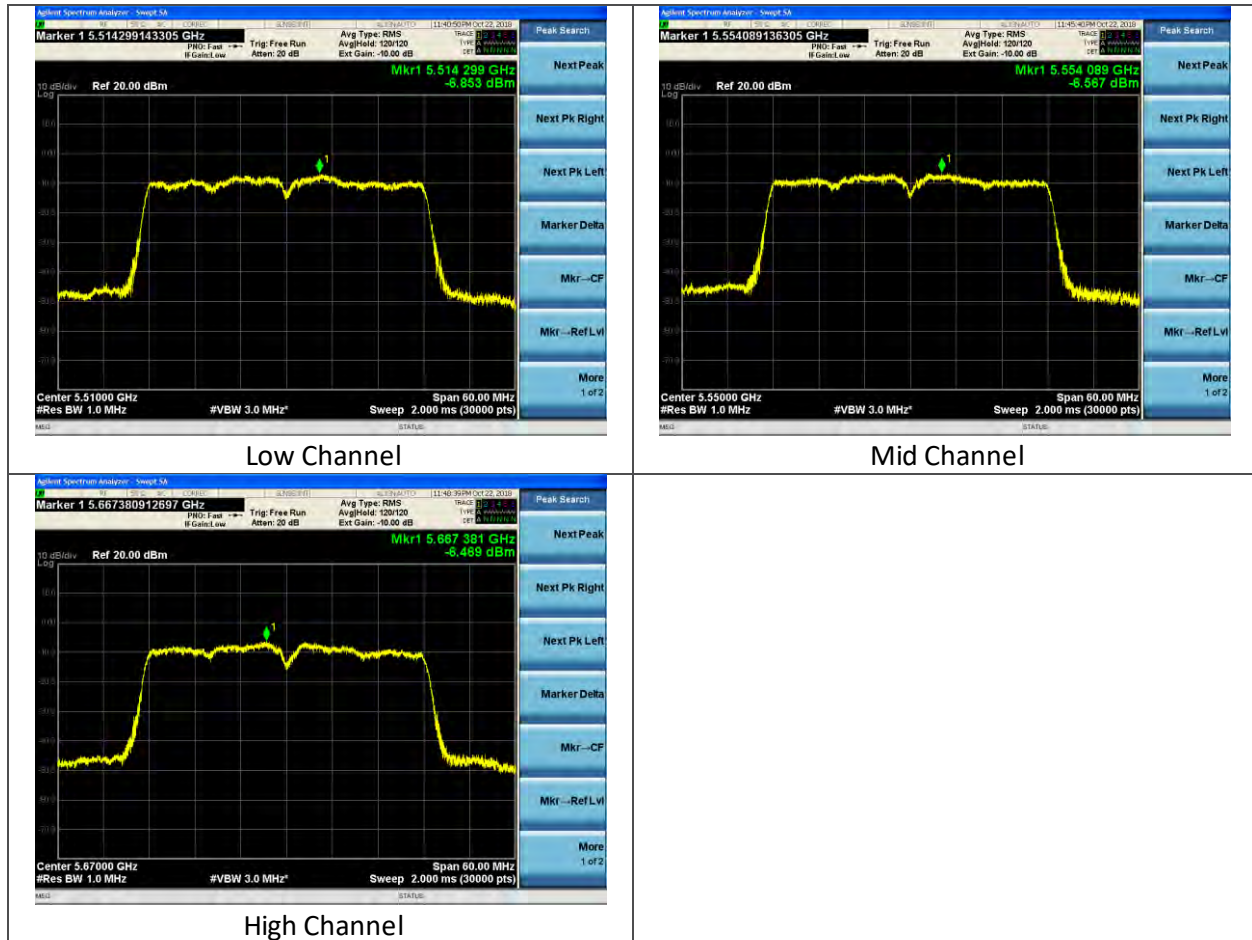


High Channel

Conducted Output Power

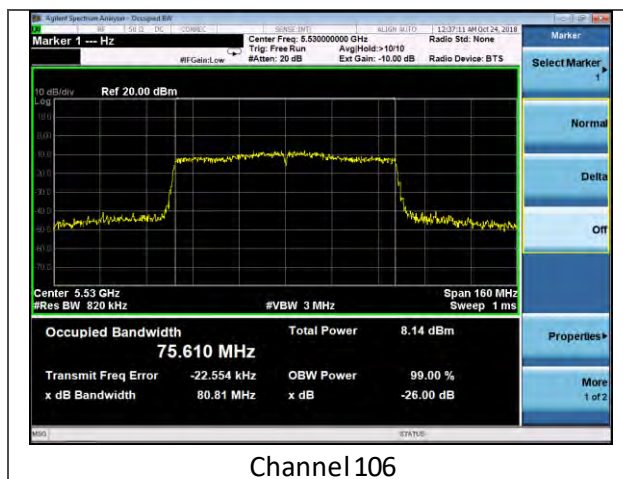


Peak Power Spectral Density

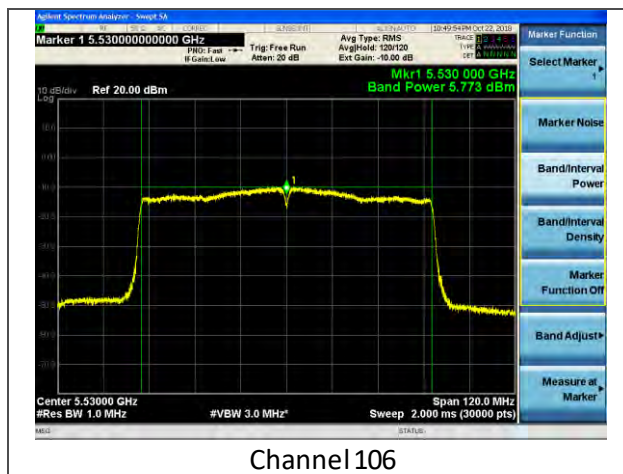


802.11ac MCS0 - 80 MHz

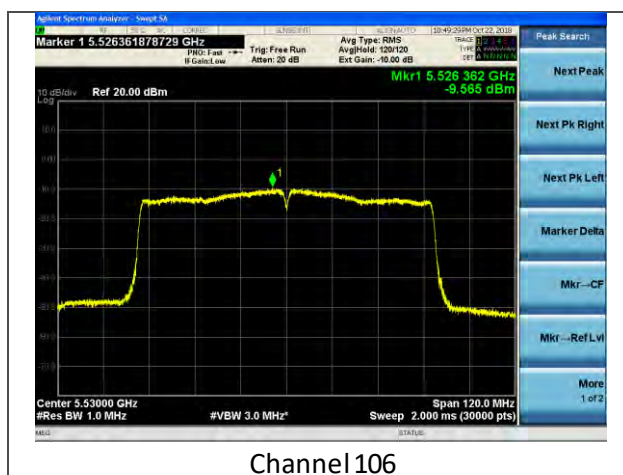
Bandwidth



Conducted Output Power

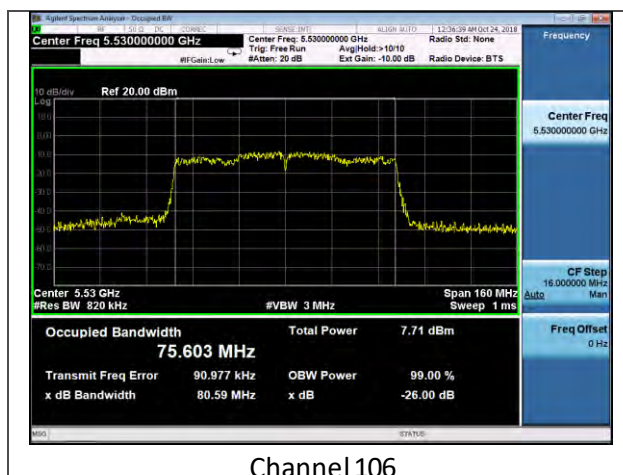


Peak Power Spectral Density

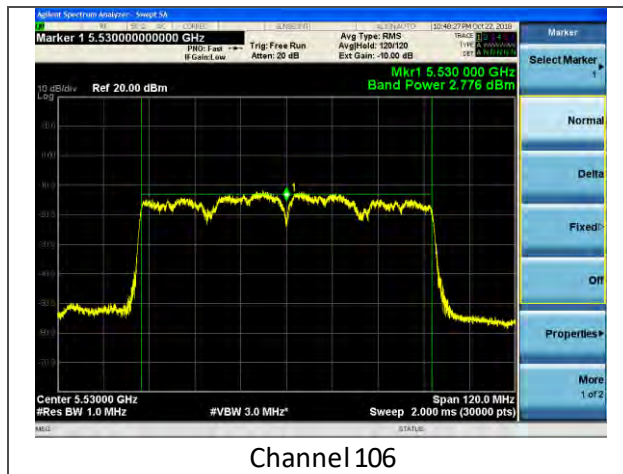


802.11ac MCS9 - 80 MHz

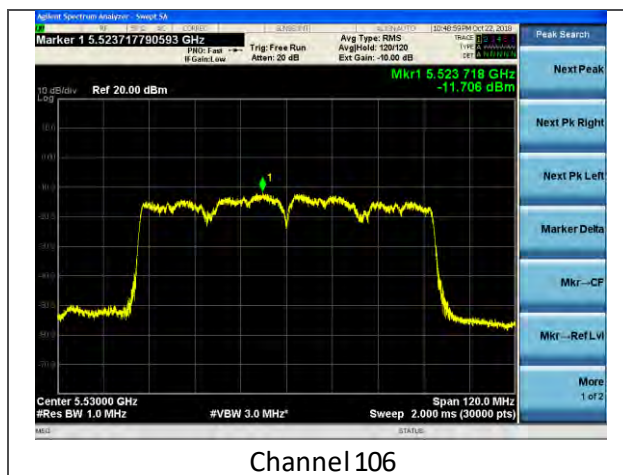
Bandwidth



Conducted Output Power



Peak Power Spectral Density



5.1.5 Antenna Port Conducted Emissions – UNII 3

Data

Bandwidth

Rate	Channel	26 dB BW (MHz)	99% BW (MHz)
6 Mbps	149	22.0	17.9
6 Mbps	157	21.3	17.4
6 Mbps	165	21.9	17.3
54 Mbps	149	21.3	16.9
54 Mbps	157	21.3	16.9
54 Mbps	165	21.5	16.8
MCS0 – HT20	149	21.9	18.3
MCS0 – HT20	157	21.9	18.2
MCS0 – HT20	165	21.9	18.1
MCS7 – HT20	149	21.6	18.0
MCS7 – HT20	157	21.7	18.0
MCS7 – HT20	165	21.7	18.1
MCS8 – HT20	149	21.7	18.1
MCS8 – HT20	157	21.5	18.0
MCS8 – HT20	165	21.5	18.2
MCS0 - 40 MHz	151	39.0	36.2
MCS0 - 40 MHz	159	39.4	36.2
MCS7 - 40 MHz	151	38.9	36.1
MCS7 - 40 MHz	159	39.0	36.1
MCS9 - 40 MHz	151	39.7	36.2
MCS9 - 40 MHz	159	39.7	36.4
MCS0 - 80 MHz	155	80.7	75.6

MCS9 - 80 155 80.4 75.7
MHz

Conducted Output Power

Rate	Channel	Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Pout (dBm)	Limit (dBm)	Margin (dB)
6 Mbps	149	10.4	0.3	10.7	30.0	19.3
6 Mbps	157	10.1	0.3	10.4	30.0	19.6
6 Mbps	165	10.4	0.3	10.7	30.0	19.3
54 Mbps	149	8.6	1.9	10.5	30.0	19.5
54 Mbps	157	8.5	1.9	10.4	30.0	19.6
54 Mbps	165	8.6	1.9	10.5	30.0	19.5
MCS0 – HT20	149	9.9	0.3	10.2	30.0	19.8
MCS0 – HT20	157	9.3	0.3	9.6	30.0	20.4
MCS0 – HT20	165	9.9	0.3	10.2	30.0	19.8
MCS7 – HT20	149	8.3	2.1	10.4	30.0	19.6
MCS7 – HT20	157	8.0	2.1	10.1	30.0	19.9
MCS7 – HT20	165	8.3	2.1	10.4	30.0	19.6
MCS8 – HT20	149	8.1	2.2	10.3	30.0	19.7
MCS8 – HT20	157	7.7	2.2	9.9	30.0	20.1
MCS8 – HT20	165	8.0	2.2	10.2	30.0	19.8
MCS0 - 40 MHz	151	7.9	0.6	8.5	30.0	21.5
MCS0 - 40 MHz	159	8.0	0.6	8.6	30.0	21.4
MCS7 - 40 MHz	151	5.6	3.0	8.6	30.0	22.4
MCS7 - 40 MHz	159	5.5	3.0	8.5	30.0	22.5
MCS9 - 40 MHz	151	5.3	3.3	8.6	30.0	21.4
MCS9 - 40 MHz	159	5.2	3.3	8.5	30.0	21.5

MCS0 - 80 MHz	155	7.4	1.1	8.5	30.0	21.5
MCS9 - 80 MHz	155	4.3	4.0	8.3	30.0	23.7

Peak Power Spectral Density

Rate	Channel	PSD (dBm/MHz)	Duty Cycle Correction (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
6 Mbps	149	1.0	0.3	1.3	30.0	28.7
6 Mbps	157	0.8	0.3	1.1	30.0	28.9
6 Mbps	165	1.0	0.3	1.3	30.0	28.7
54 Mbps	149	-0.6	1.9	1.3	30.0	28.7
54 Mbps	157	-0.8	1.9	1.1	30.0	28.9
54 Mbps	165	-0.6	1.9	1.3	30.0	28.7
MCS0	149	0.1	0.3	0.4	30.0	29.6
MCS0	157	-0.3	0.3	0.0	30.0	30.0
MCS0	165	0.2	0.3	0.5	30.0	29.5
MCS7	149	-1.1	2.1	1.0	30.0	29.0
MCS7	157	-1.2	2.1	0.9	30.0	29.1
MCS7	165	-1.1	2.1	1.0	30.0	29.0
MCS8	149	-1.2	2.2	1.0	30.0	29.0
MCS8	157	-1.6	2.2	0.6	30.0	29.4
MCS8	165	-1.5	2.2	0.7	30.0	29.3
MCS0 - 40 MHz	151	-4.7	0.6	-4.1	30.0	34.1
MCS0 - 40 MHz	159	-4.7	0.6	-4.1	30.0	34.1
MCS7 - 40 MHz	151	-6.7	3.0	-3.7	30.0	33.7
MCS7 - 40 MHz	159	-7.1	3.0	-4.1	30.0	34.1
MCS9 - 40 MHz	151	-7.1	3.3	-3.8	30.0	33.8
MCS9 - 40 MHz	159	-7.5	3.3	-4.2	30.0	34.2
MCS0 - 80 MHz	155	-8.5	1.1	-7.4	30.0	37.4
MCS9 - 80 MHz	155	-10.7	4.0	-6.7	30.0	36.7

Conducted Tx Spurious – All Data Rates

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3830.05	149	6 MBPS	-53.0	5.0	-48.0	-27.0	21.0
11482.7	149	6 MBPS	-47.2	5.0	-42.2	-27.0	15.2
3856.83	157	6 MBPS	-51.8	5.0	-46.8	-27.0	19.8
11569.2	157	6 MBPS	-46.3	5.0	-41.3	-27.0	14.3
3883.45	165	6 MBPS	-51.8	5.0	-46.8	-27.0	19.8
11652.5	165	6 MBPS	-48.0	5.0	-43.0	-27.0	16.0
3830.21	149	54 MBPS	-53.0	5.0	-48.0	-27.0	21.0
11490.6	149	54 MBPS	-48.3	5.0	-43.3	-27.0	16.3
3856.99	157	54 MBPS	-53.4	5.0	-48.4	-27.0	21.4
11576.0	157	54 MBPS	-49.3	5.0	-44.3	-27.0	17.3
3883.45	165	54 MBPS	-52.5	5.0	-47.5	-27.0	20.2
11648.9	165	54 MBPS	-50.2	5.0	-45.0	-27.0	18.0
3830.21	149	MCS0 -20 MHz	-52.0	5.0	-47.0	-27.0	20.0
11488.4	149	MCS0 -20 MHz	-46.8	5.0	-41.8	-27.0	14.8
3856.83	157	MCS0 -20 MHz	-51.8	5.0	-46.8	-27.0	19.8
11566.9	157	MCS0 -20 MHz	-46.7	5.0	-41.7	-27.0	14.7
3883.61	165	MCS0 -20 MHz	-51.6	5.0	-46.6	-27.0	19.6
11647.7	165	MCS0 -20 MHz	-48.9	5.0	-43.9	-27.0	16.9
3830.05	149	MCS7 -20 MHz	-53.5	5.0	-48.5	-27.0	21.5
11489.5	149	MCS7 -20 MHz	-48.1	5.0	-43.1	-27.0	16.1
3856.83	157	MCS7 -20 MHz	-52.6	5.0	-47.6	-27.0	20.6
11566.9	157	MCS7 -20 MHz	-48.0	5.0	-43.0	-27.0	16.0
3883.45	165	MCS7 -20 MHz	-53.1	5.0	-48.1	-27.0	21.1
11644.3	165	MCS7 -20 MHz	-50.1	5.0	-45.1	-27.0	18.1
3830.21	149	MCS8 – 20 MHz	-53.7	5.0	-48.7	-27.0	21.7
11486.1	149	MCS8 – 20 MHz	-49.0	5.0	-45.0	-27.0	18.0
3856.83	157	MCS8 – 20 MHz	-53.5	5.0	-48.5	-27.0	21.5
11573.7	157	MCS8 – 20 MHz	-48.9	5.0	-43.9	-27.0	16.9
3883.29	165	MCS8 – 20 MHz	-52.5	5.0	-47.5	-27.0	20.5
11651.1	165	MCS8 – 20 MHz	-49.5	5.0	-44.5	-27.0	17.5
3836.98	151	MCS0 -40 MHz	-52.9	5.0	-47.9	-27.0	20.9
11520.2	151	MCS0 -40 MHz	-50.5	5.0	-45.5	-27.0	18.5
3863.60	159	MCS0 -40 MHz	-51.4	5.0	-46.4	-27.0	19.4
11584.0	159	MCS0 -40 MHz	-48.8	5.0	-43.8	-27.0	16.8
3836.83	151	MCS7 -40 MHz	-53.4	5.0	-48.4	-27.0	21.4
11505.4	151	MCS7 -40 MHz	-52.5	5.0	-47.5	-27.0	20.5

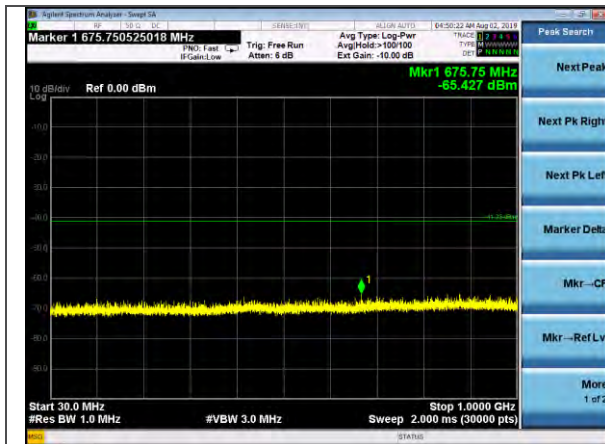
3863.60	159	MCS7 -40 MHz	-52.5	5.0	-47.5	-27.0	20.5
11596.5	159	MCS7 -40 MHz	-50.4	5.0	-45.4	-27.0	18.4
3836.71	151	MCS9 -40 MHz	-53.8	5.0	-48.8	-27.0	11.8
11510.0	151	MCS9 -40 MHz	-50.6	5.0	-45.6	-27.0	18.6
3863.60	159	MCS9 -40 MHz	-53.0	5.0	-48.0	-27.0	21.0
11589.7	159	MCS9 -40 MHz	-50.5	5.0	-45.5	-27.0	18.5
3830.21	155	MCS0 -80 MHz	-53.7	5.0	-48.7	-27.0	21.7
11490.6	155	MCS0 -80 MHz	-48.6	5.0	-43.6	-27.0	16.6
3830.21	155	MCS9 -80 MHz	-53.5	5.0	-48.5	-27.0	21.5
11491.8	155	MCS9 -80 MHz	-49.5	5.0	-44.5	-27.0	17.5

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3830.06	149	6 MBPS	-55.6	0.3	5.0	-50.3	-41.2	9.1
11486.51	149	6 MBPS	-53.7	0.3	5.0	-48.4	-41.2	7.2
3856.64	157	6 MBPS	-55.1	0.3	5.0	-49.8	-41.2	8.6
11570.67	157	6 MBPS	-53.4	0.3	5.0	-48.1	-41.2	6.9
3883.26	165	6 MBPS	-54.0	0.3	5.0	-48.7	-41.2	7.5
11652.47	165	6 MBPS	-55.1	0.3	5.0	-49.8	-41.2	8.6
3829.95	149	54 MBPS	-57.8	1.9	5.0	-50.9	-41.2	9.7
11489.97	149	54 MBPS	-56.0	1.9	5.0	-49.1	-41.2	7.9
3856.59	157	54 MBPS	-56.5	1.9	5.0	-49.6	-41.2	8.4
11569.97	157	54 MBPS	-56.9	1.9	5.0	-50.0	-41.2	8.8
3883.33	165	54 MBPS	-55.9	1.9	5.0	-49.0	-41.2	7.8
11652.56	165	54 MBPS	-58.3	1.9	5.0	-51.4	-41.2	10.2
3829.99	149	MCS0 -20 MHz	-55.3	0.3	5.0	-50.0	-41.2	8.8
11489.66	149	MCS0 -20 MHz	-55.2	0.3	5.0	-49.9	-41.2	8.7
3856.59	157	MCS0 -20 MHz	-54.3	0.3	5.0	-49.0	-41.2	7.8
11569.61	157	MCS0 -20 MHz	-55.0	0.3	5.0	-49.7	-41.2	8.5
3883.30	165	MCS0 -20 MHz	-53.6	0.3	5.0	-48.3	-41.2	7.1
11649.40	165	MCS0 -20 MHz	-56.5	0.3	5.0	-51.2	-41.2	10.0
3829.95	149	MCS7 -20 MHz	-57.4	2.1	5.0	-50.3	-41.2	9.1
11488.41	149	MCS7 -20 MHz	-57.6	2.1	5.0	-50.5	-41.2	9.3
3856.69	157	MCS7 -20 MHz	-56.0	2.1	5.0	-48.9	-41.2	7.7
11570.75	157	MCS7 -20 MHz	-57.5	2.1	5.0	-50.4	-41.2	9.2
3883.38	165	MCS7 -20 MHz	-55.6	2.1	5.0	-48.5	-41.2	7.3

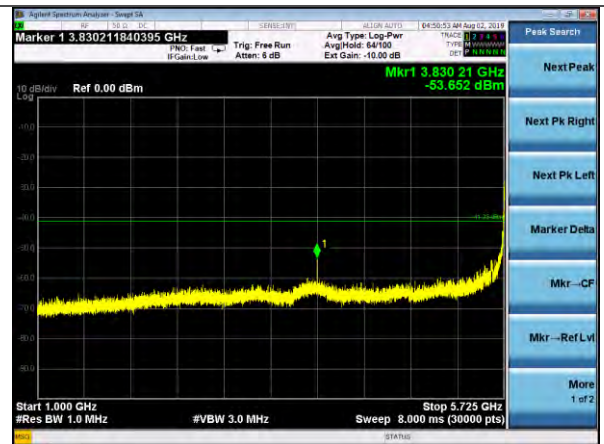
11650.85	165	MCS7 -20 MHz	-59.4	2.1	5.0	-52.3	-41.2	11.1
3829.96	149	MCS8	-57.3	2.2	5.0	-50.1	-41.2	8.9
11491.90	149	MCS8	-57.8	2.2	5.0	-50.6	-41.2	9.4
3856.74	157	MCS8	-56.8	2.2	5.0	-49.6	-41.2	8.4
11568.81	157	MCS8	-57.5	2.2	5.0	-50.3	-41.2	9.1
3883.35	165	MCS8	-56.0	2.2	5.0	-47.8	-41.2	6.6
11651.35	165	MCS8	-59.1	2.2	5.0	-51.9	-41.2	10.7
3836.58	151	MCS0 -40 MHz	-55.2	0.6	5.0	-49.6	-41.2	8.4
11509.68	151	MCS0 -40 MHz	-58.3	0.6	5.0	-52.7	-41.2	11.5
3863.37	159	MCS0 -40 MHz	-54.1	0.6	5.0	-48.5	-41.2	7.3
11589.40	159	MCS0 -40 MHz	-58.2	0.6	5.0	-52.6	-41.2	11.4
3836.77	151	MCS7 -40 MHz	-56.9	3.0	5.0	-48.9	-41.2	7.7
11511.37	151	MCS7 -40 MHz	-61.1	3.0	5.0	-53.1	-41.2	11.9
3863.48	159	MCS7 -40 MHz	-56.7	3.0	5.0	-48.7	-41.2	7.5
11591.45	159	MCS7 -40 MHz	-60.4	3.0	5.0	-52.4	-41.2	11.2
3836.71	151	MCS9 -40 MHz	-57.2	3.3	5.0	-48.9	-41.2	7.7
11508.49	151	MCS9 -40 MHz	-60.7	3.3	5.0	-53.4	-41.2	12.2
3863.33	159	MCS9 -40 MHz	-56.2	3.3	5.0	-47.9	-41.2	6.7
11591.51	159	MCS9 -40 MHz	-60.0	3.3	5.0	-51.7	-41.2	10.5
3829.79	155	MCS0 -80 MHz	-57.6	1.1	5.0	-51.5	-41.2	10.2
11488.77	155	MCS0 -80 MHz	-57.6	1.1	5.0	-51.5	-41.2	10.2
3830.11	155	MCS9 -80 MHz	-57.3	4.0	5.0	-48.3	-41.2	7.1
11488.46	155	MCS9 -80 MHz	-57.8	4.0	5.0	-48.8	-41.2	7.6

Plots

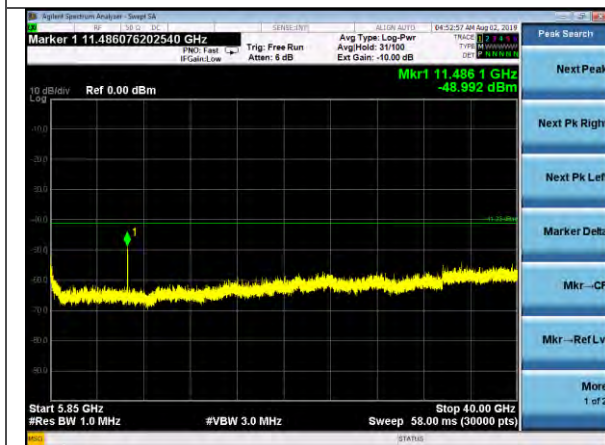
Conducted Tx Spurious (Worst Case Shown – MCS8 – 20 MHz)



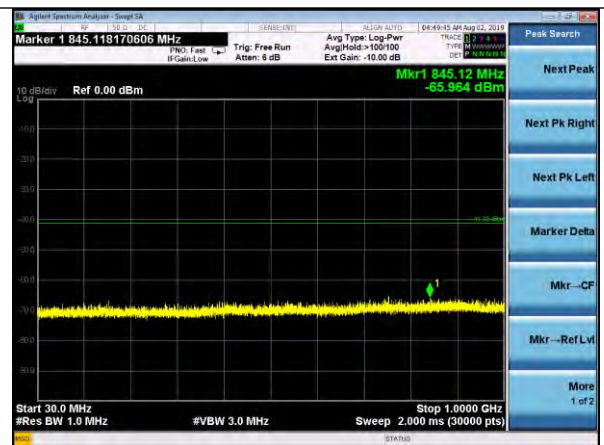
30 – 1000 MHz Low Channel



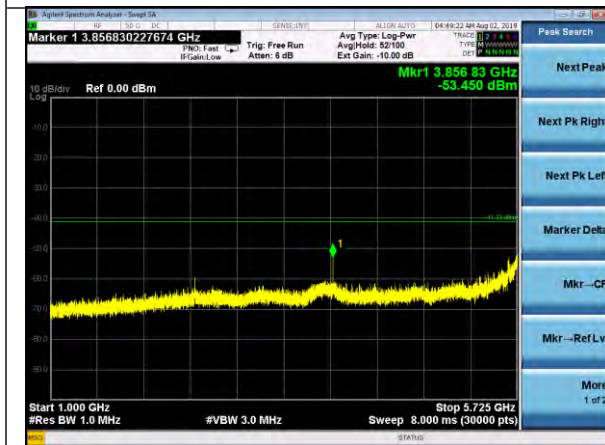
1- 5.725 GHz Low Channel



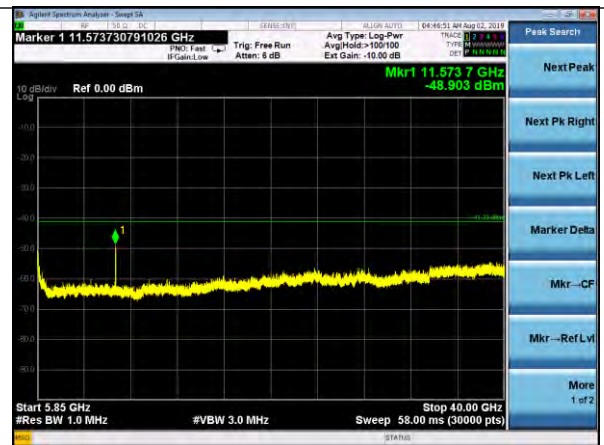
5.85 – 40 GHz Low Channel



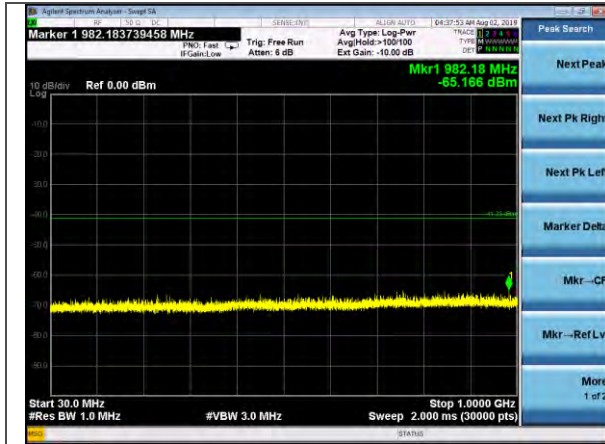
30-1000 MHz Mid Channel



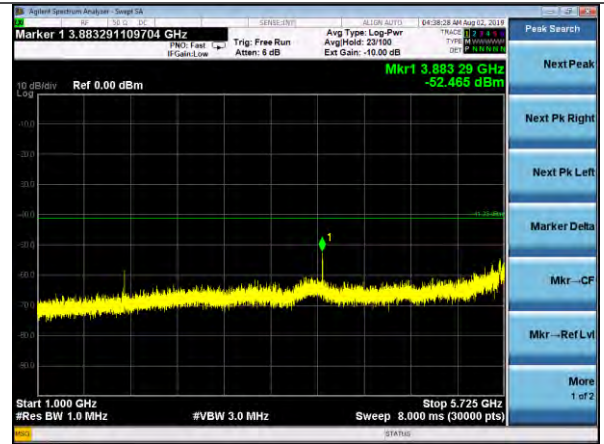
1-5.725 GHz Mid Channel



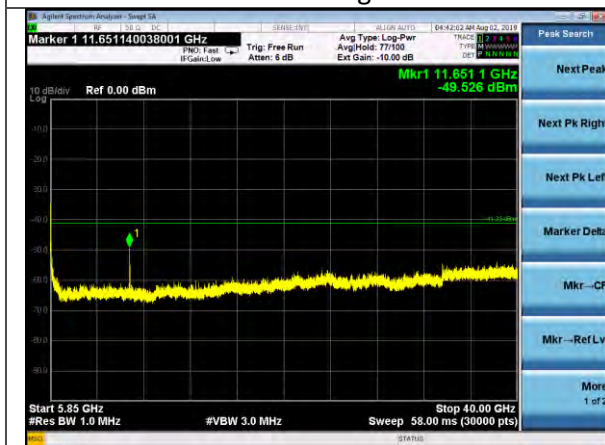
5.85 – 40 GHz Mid Channel



30 - 1000 MHz High Channel



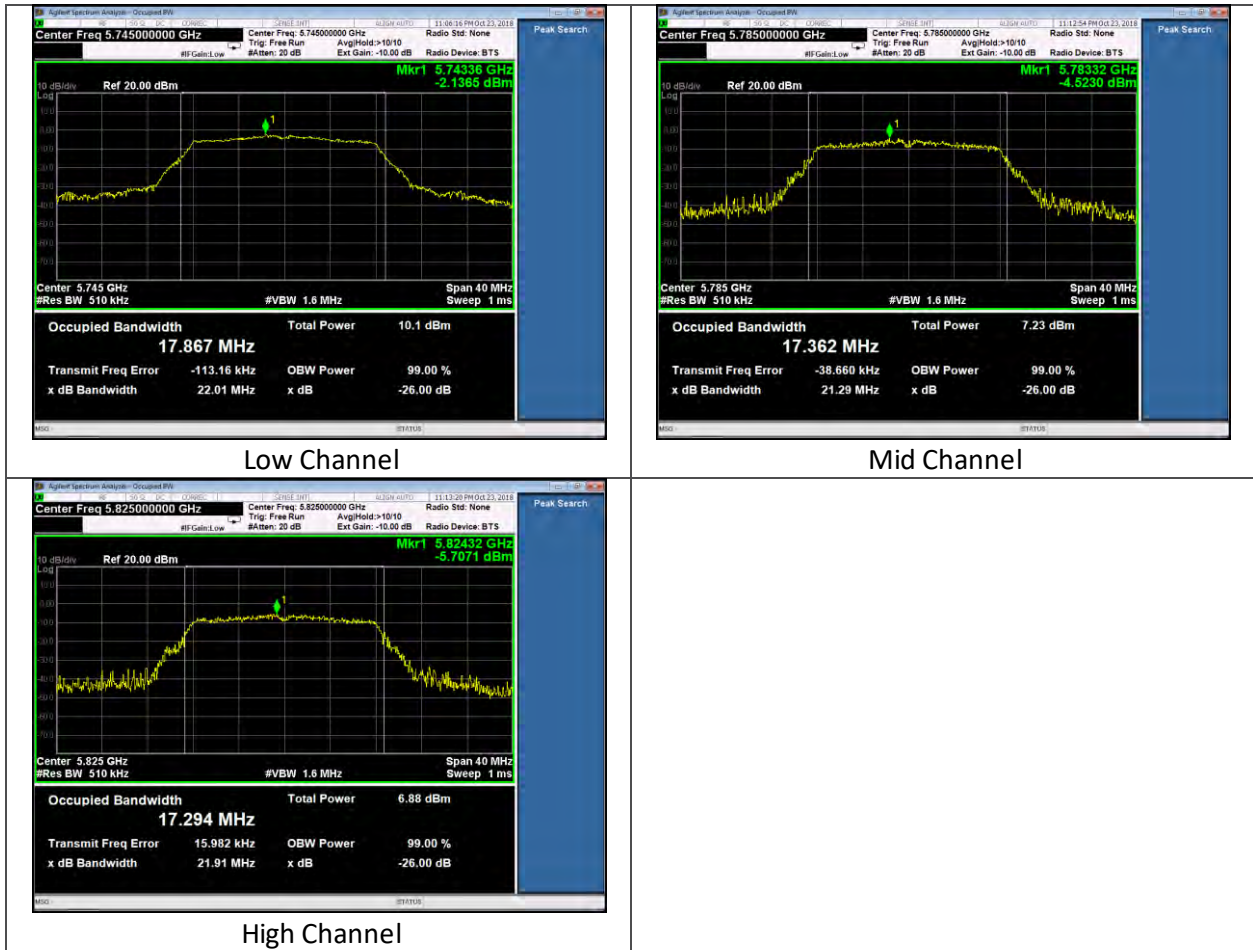
1- 5.725 GHz High Channel



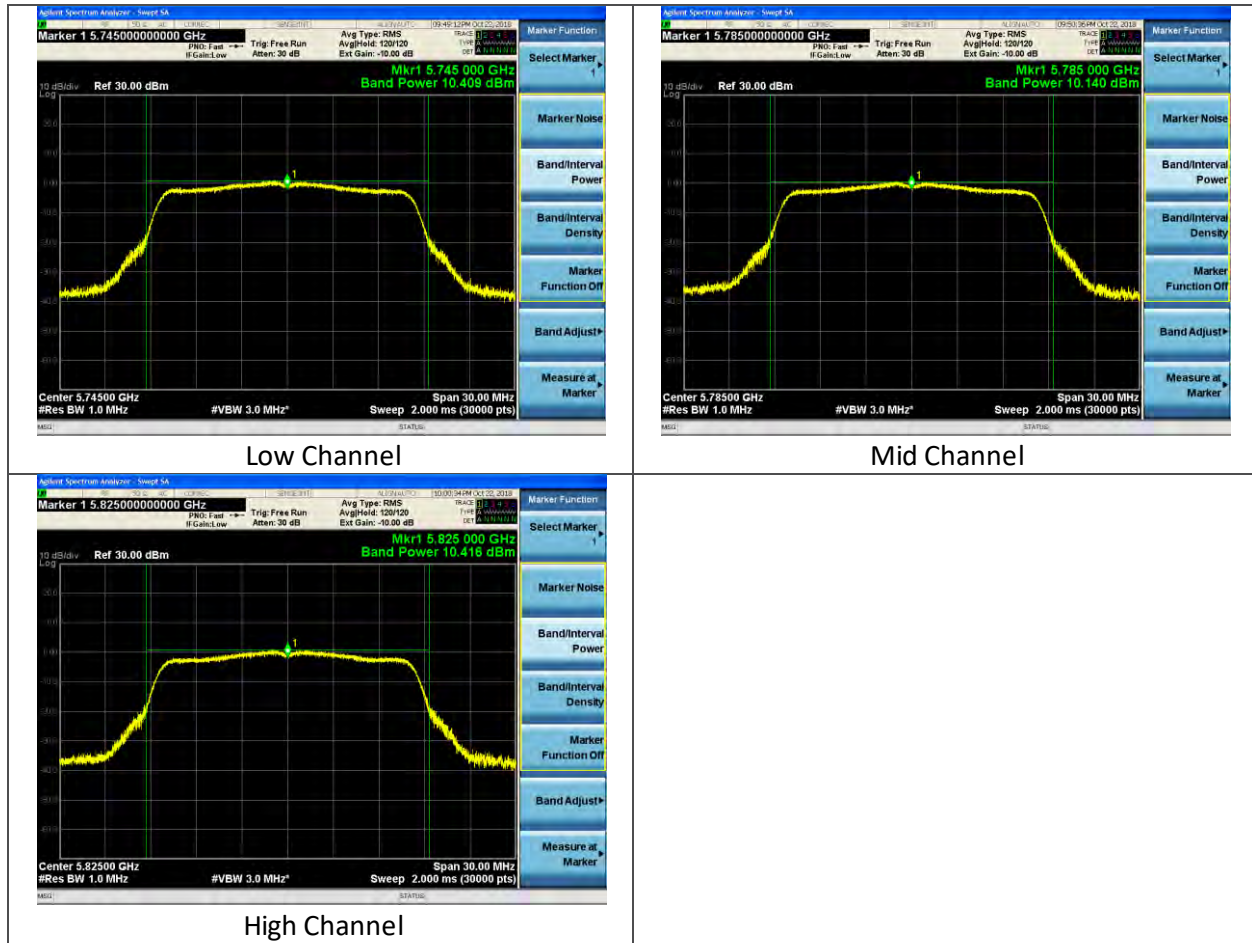
5.85 - 40 GHz High Channel

802.11a 6 MBPS - 20 MHz

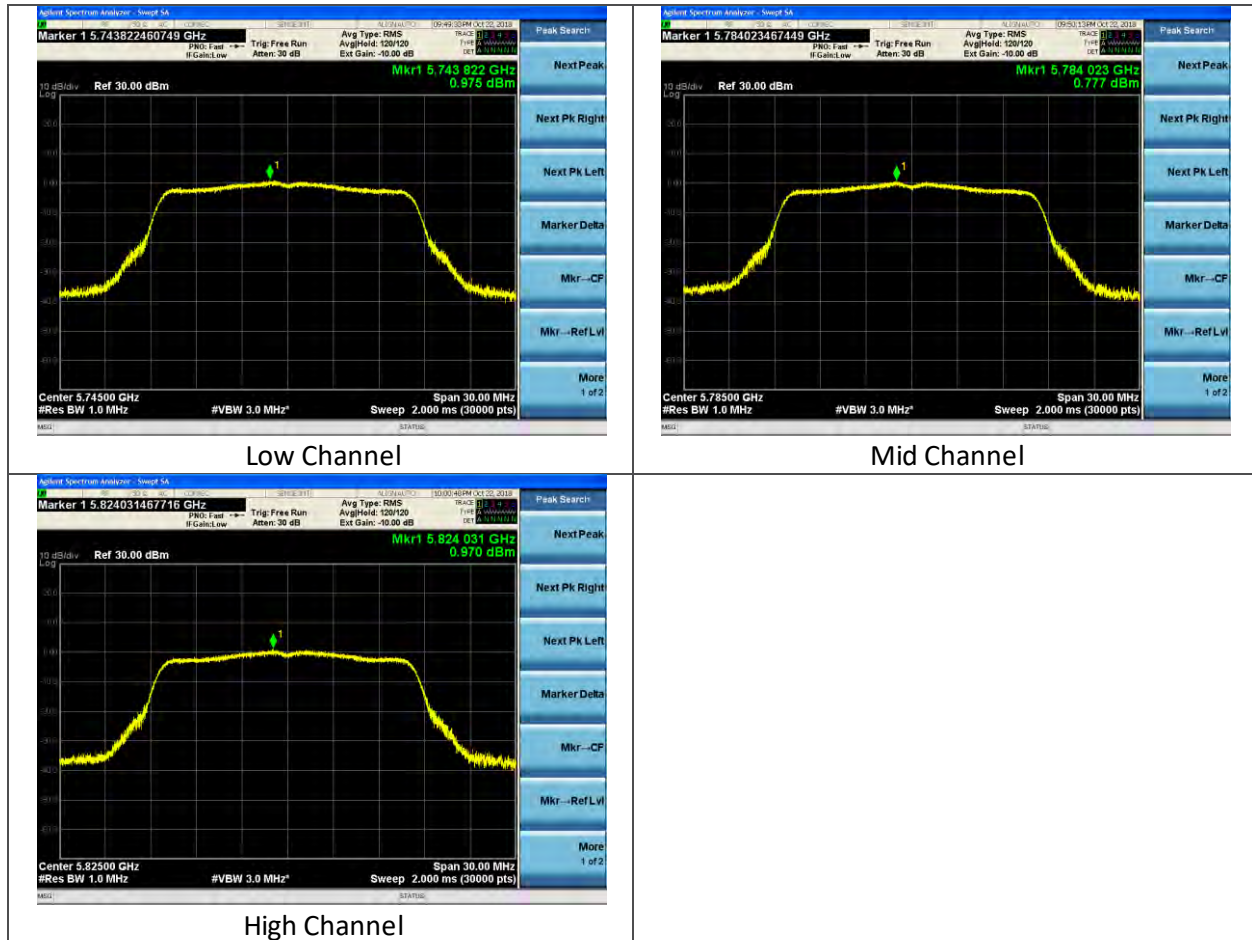
Bandwidth



Conducted Output Power

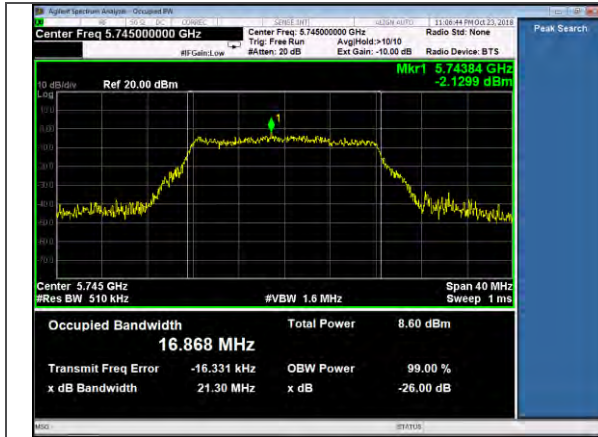


Peak Power Spectral Density

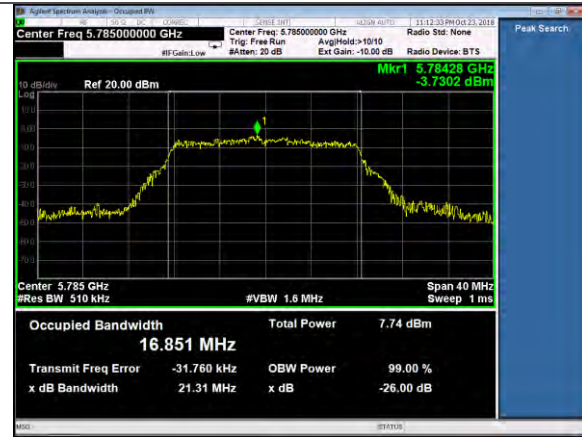


802.11a 54 MBPS - 20 MHz

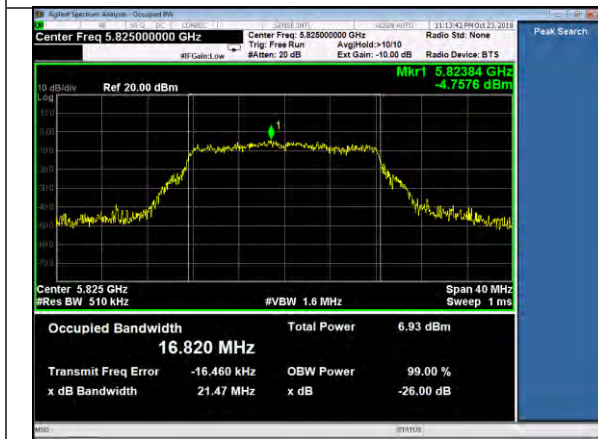
Bandwidth



Low Channel

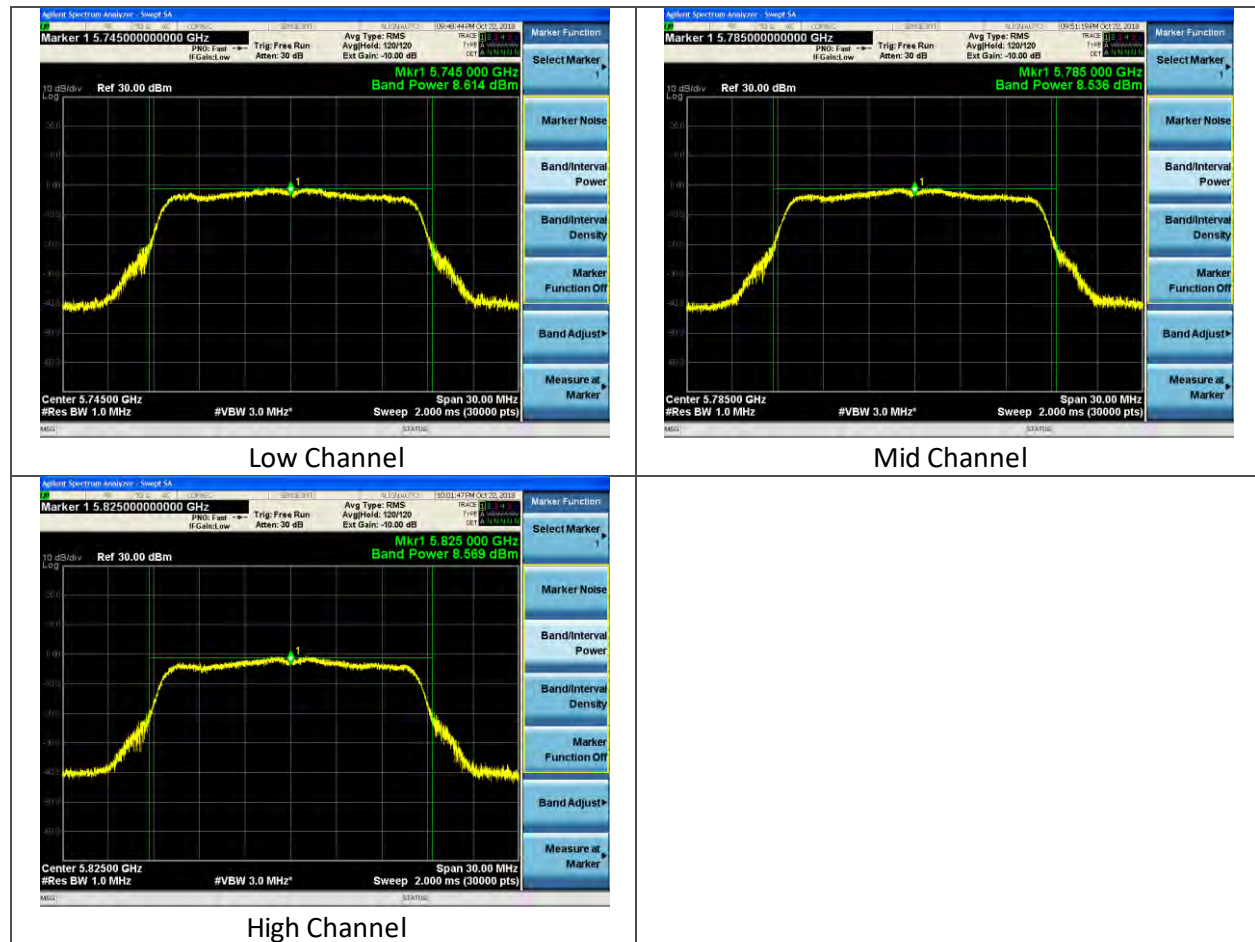


Mid Channel

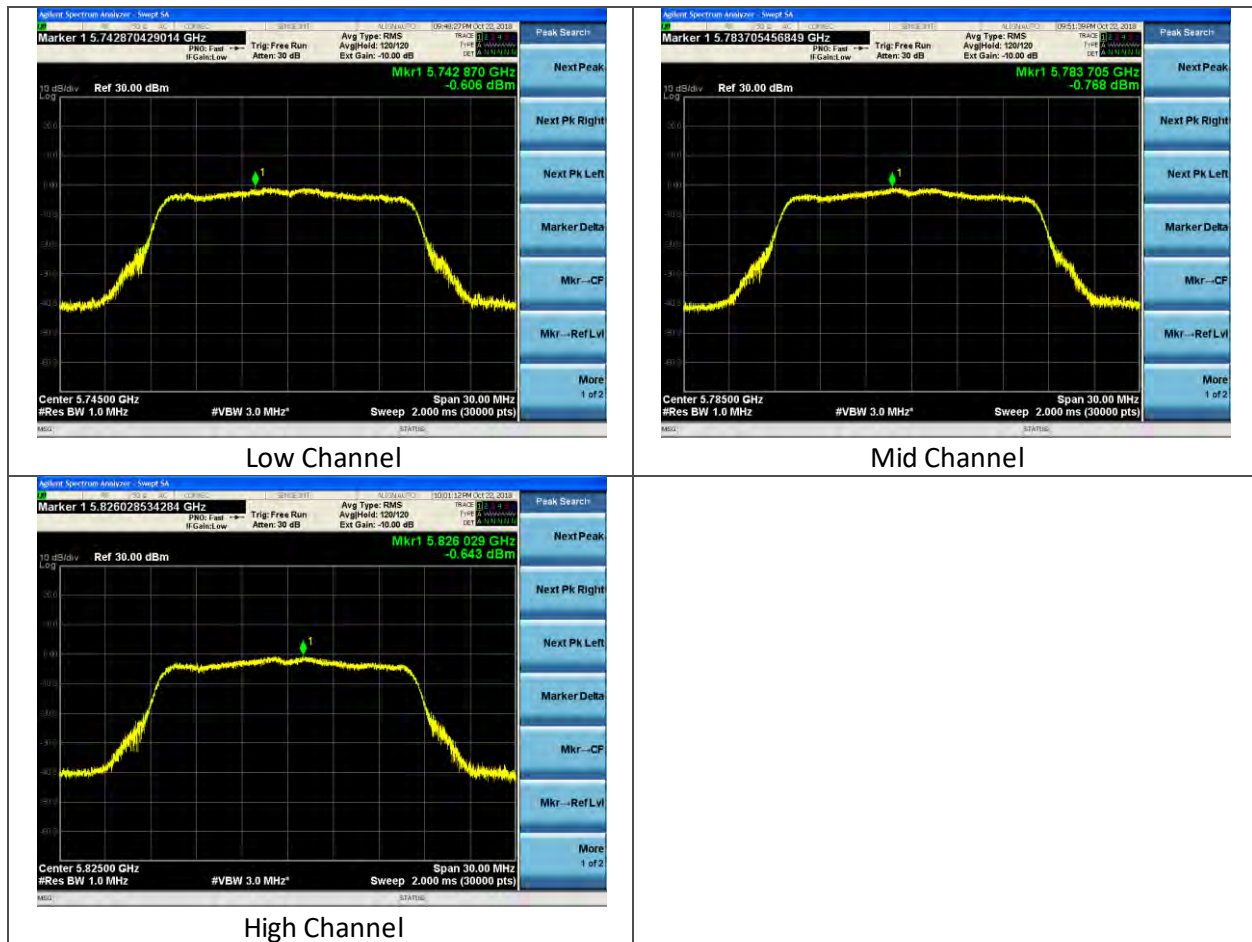


High Channel

Conducted Output Power

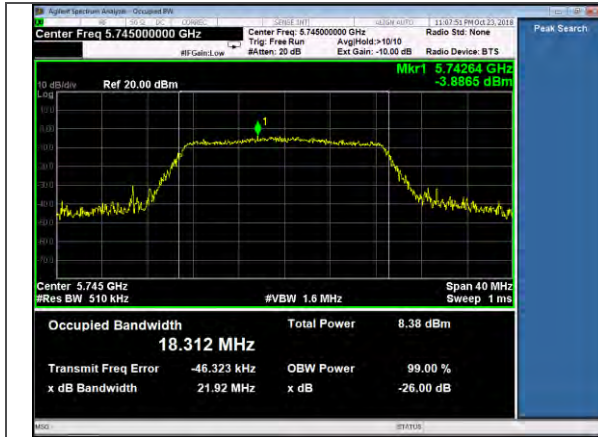


Peak Power Spectral Density

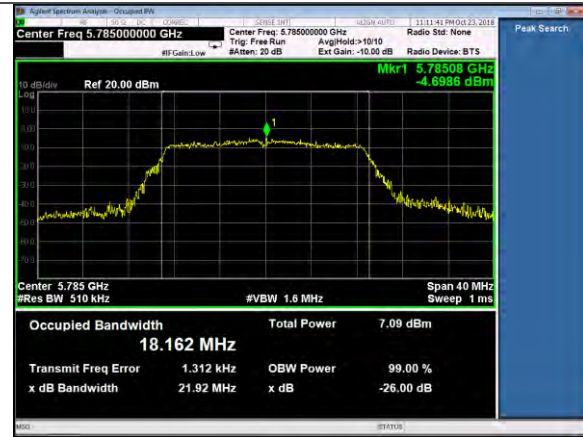


802.11n MCS0 - 20 MHz

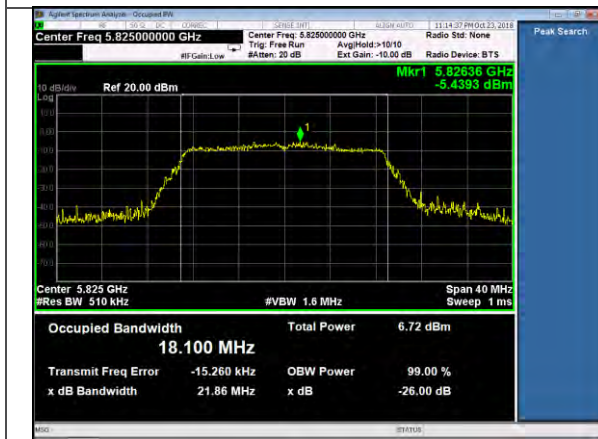
Bandwidth



Low Channel

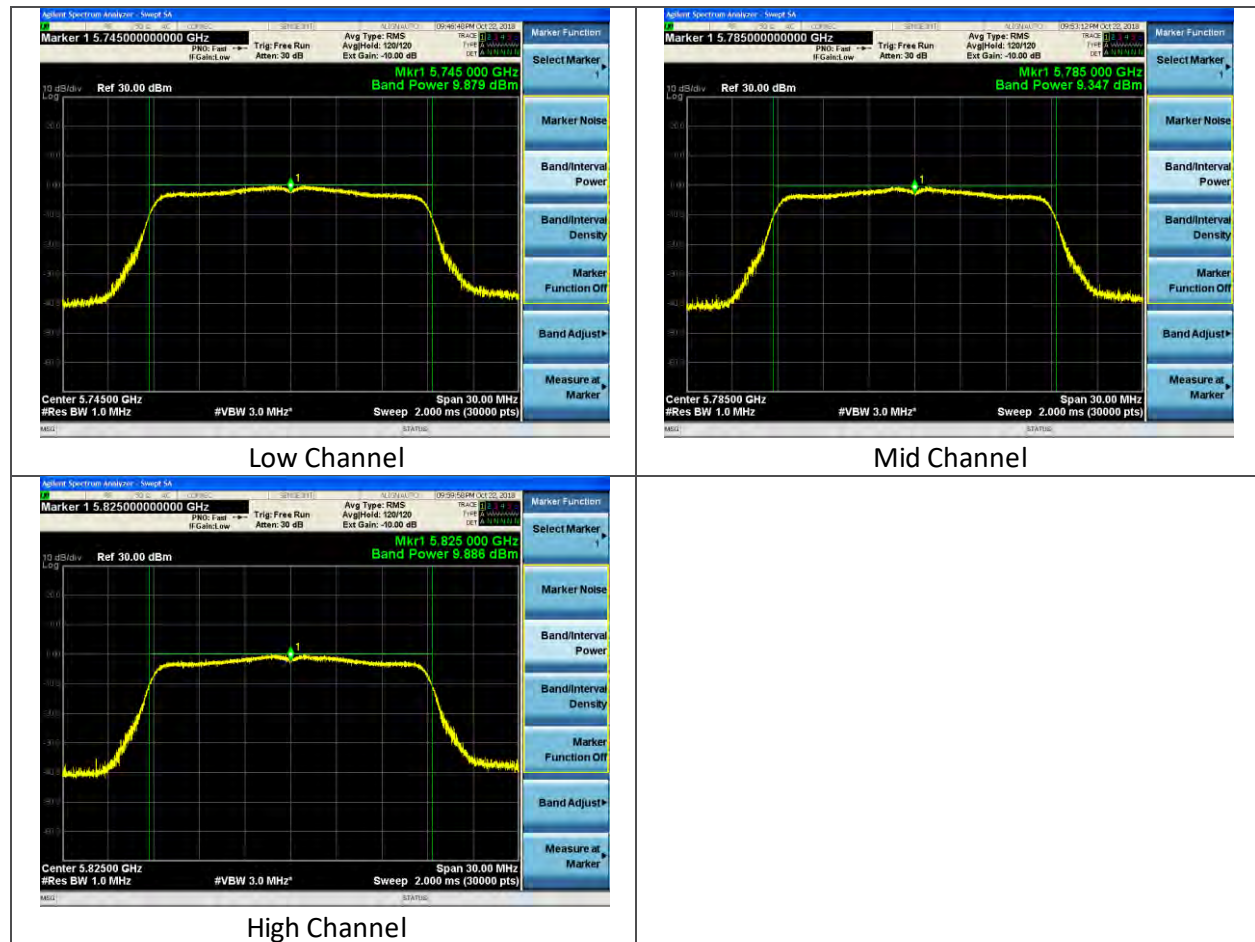


Mid Channel

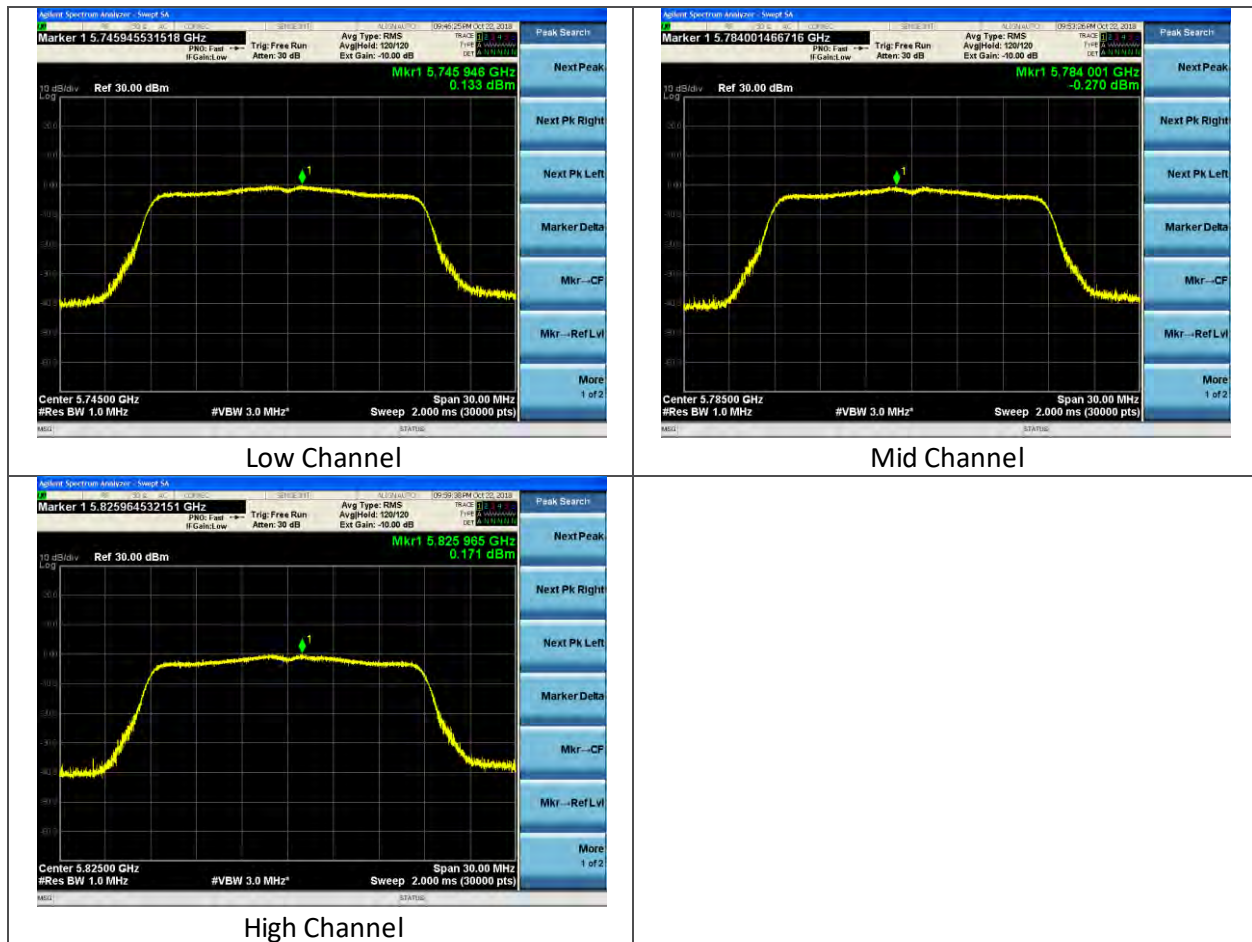


High Channel

Conducted Output Power

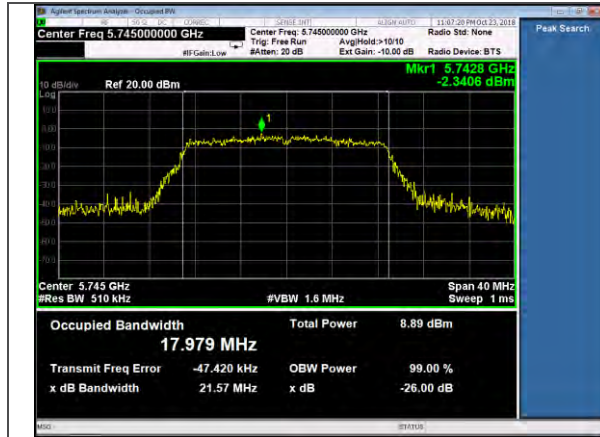


Peak Power Spectral Density

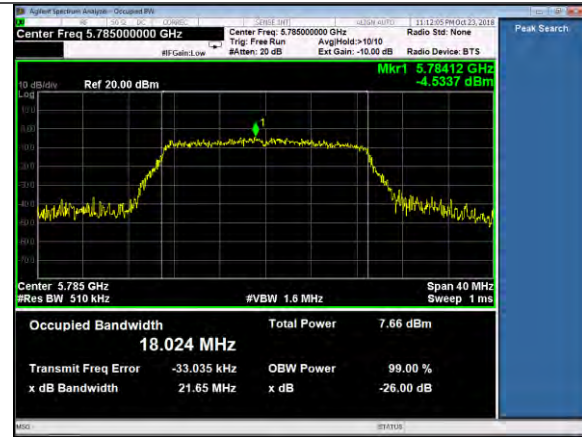


802.11n MCS7 - 20 MHz

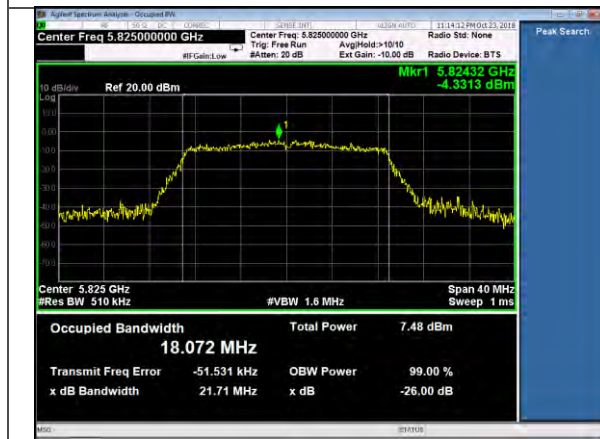
Bandwidth



Low Channel

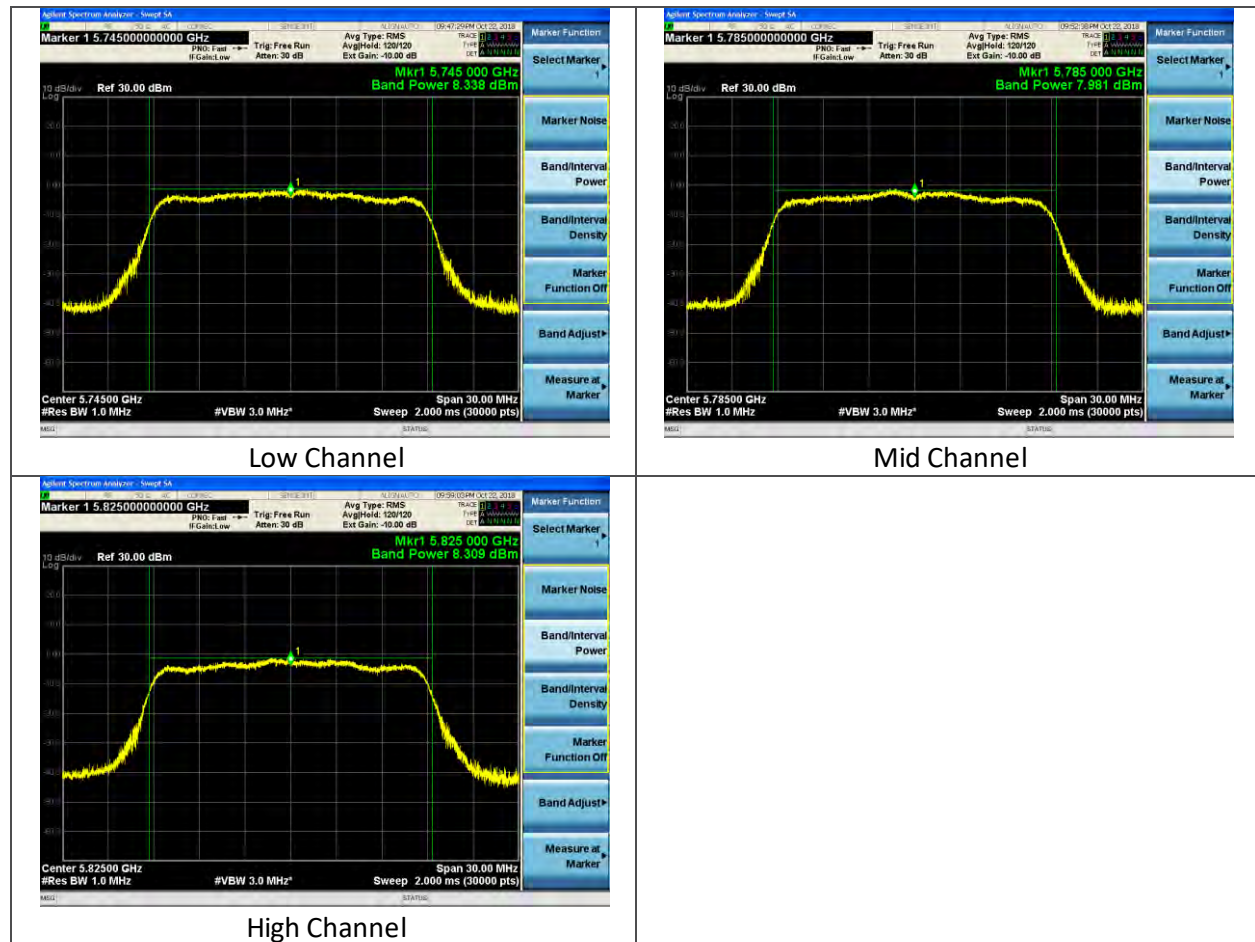


Mid Channel

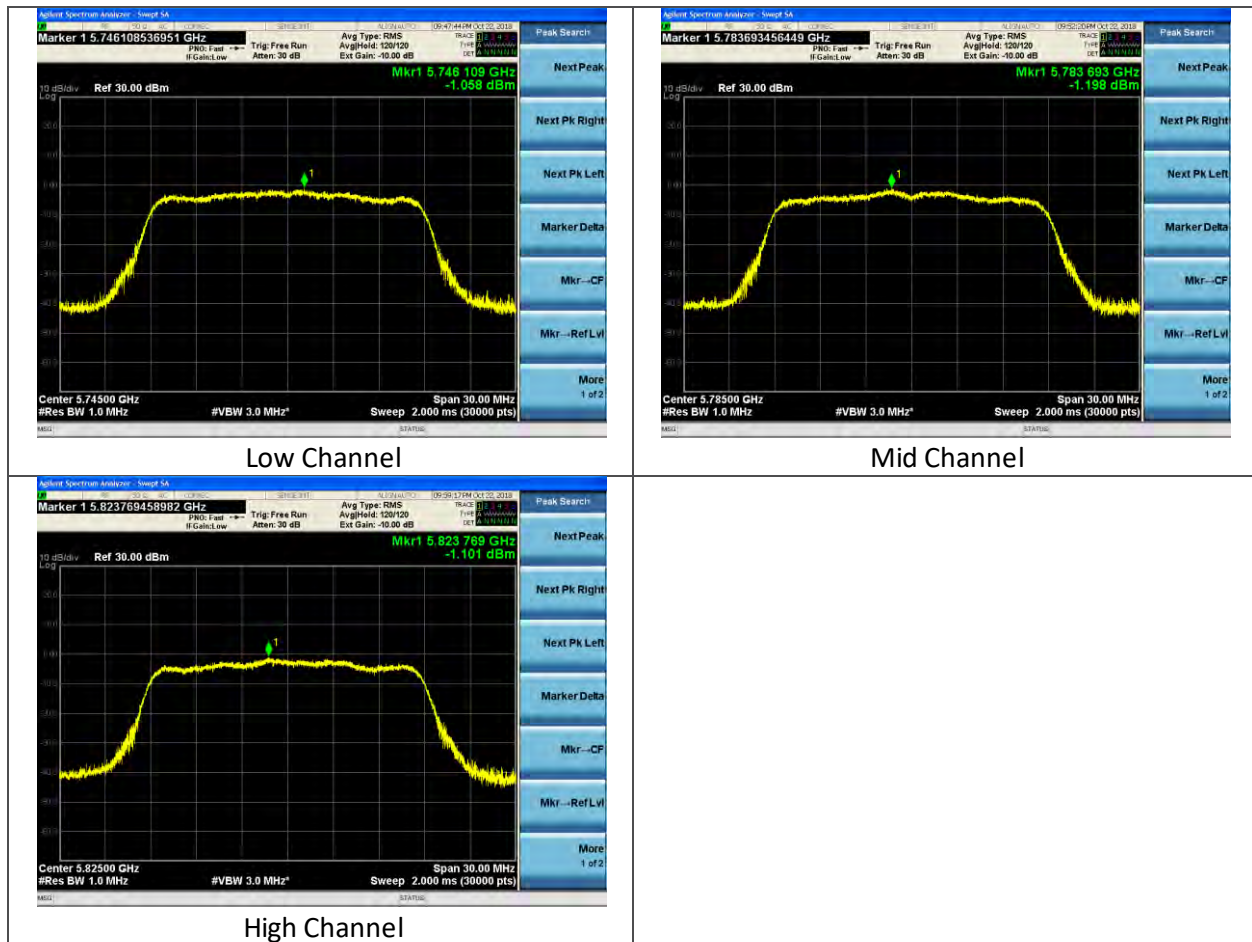


High Channel

Conducted Output Power

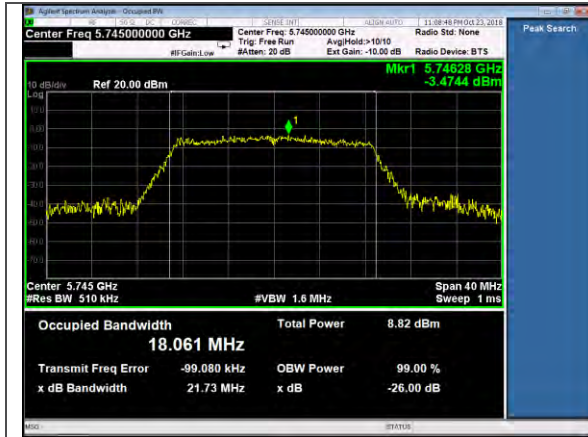


Peak Power Spectral Density

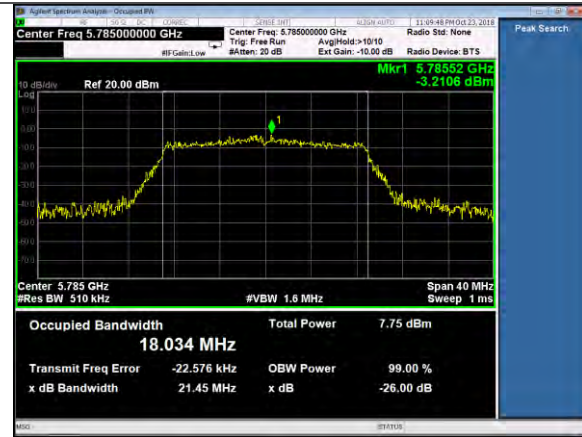


802.11ac MCS8 - 20 MHz

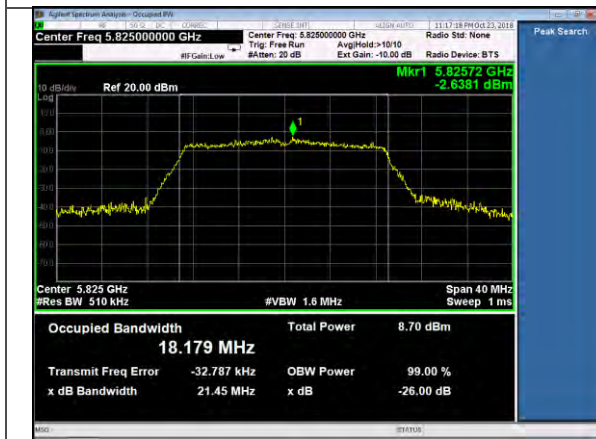
Bandwidth



Low Channel

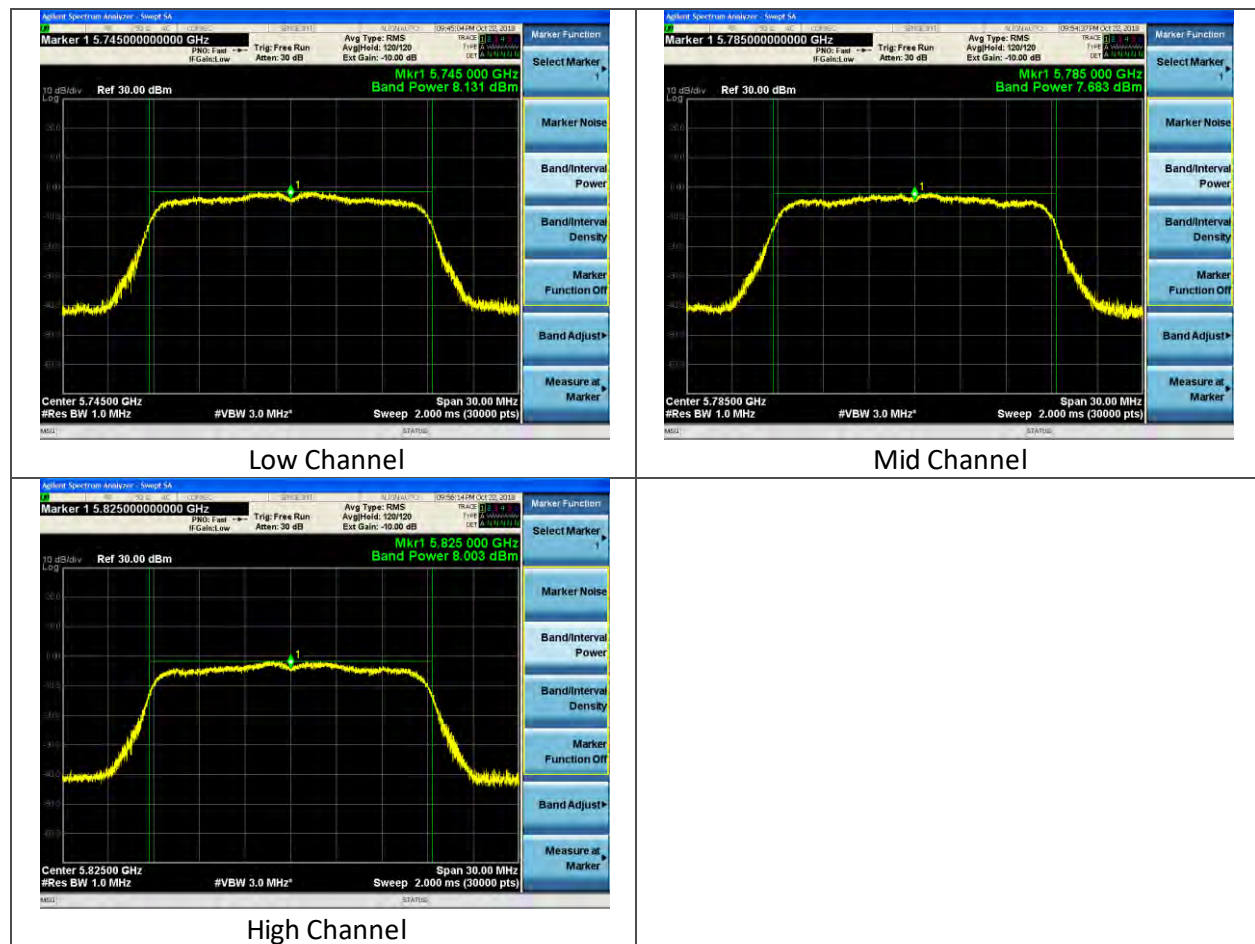


Mid Channel

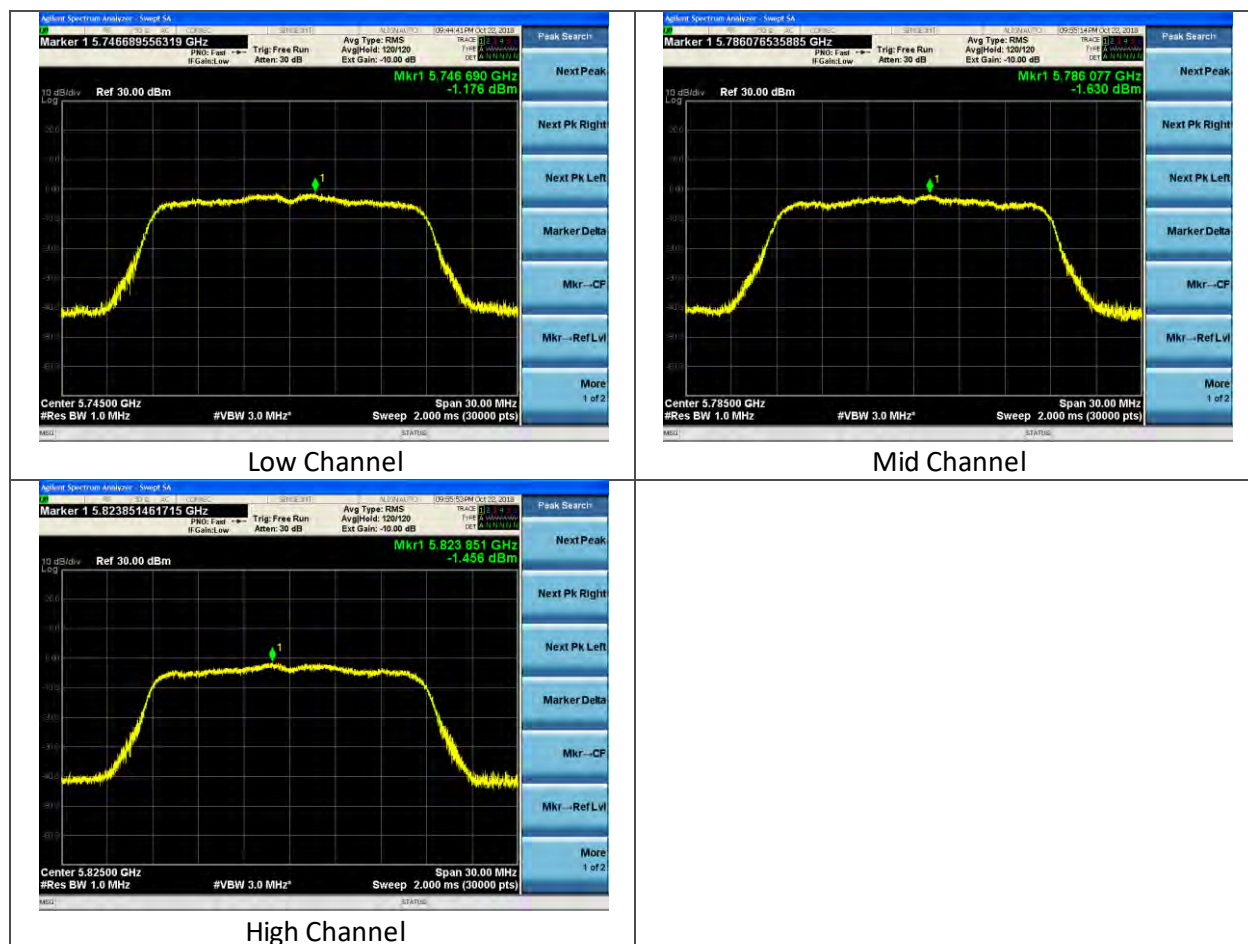


High Channel

Conducted Output Power

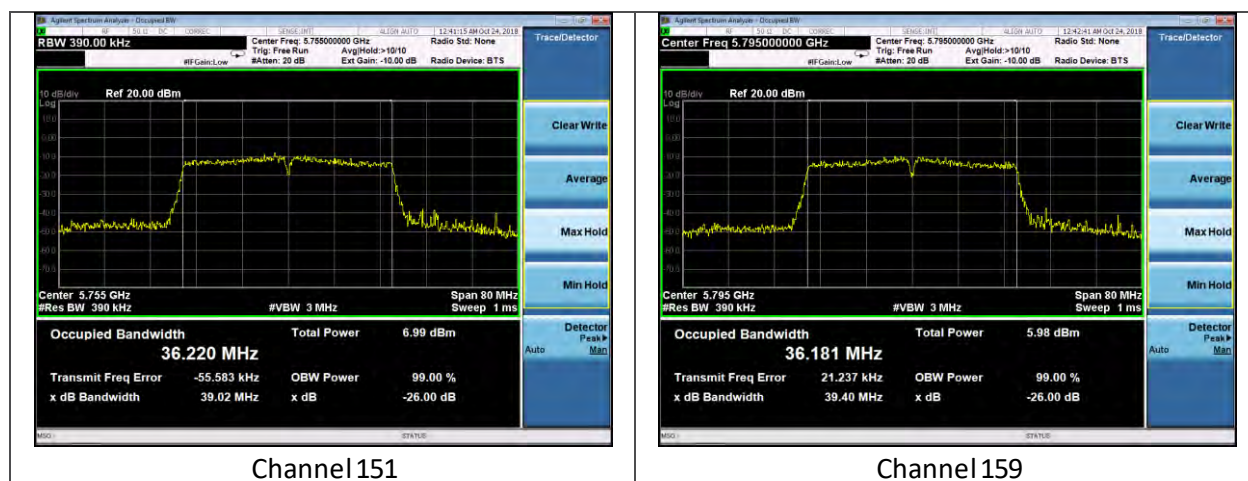


Peak Power Spectral Density



802.11ac MCS0 - 40 MHz

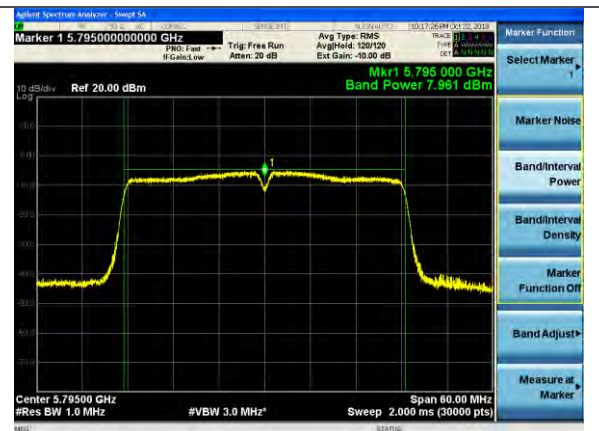
Bandwidth



Conducted Output Power



Channel 151



Channel 159

Peak Power Spectral Density



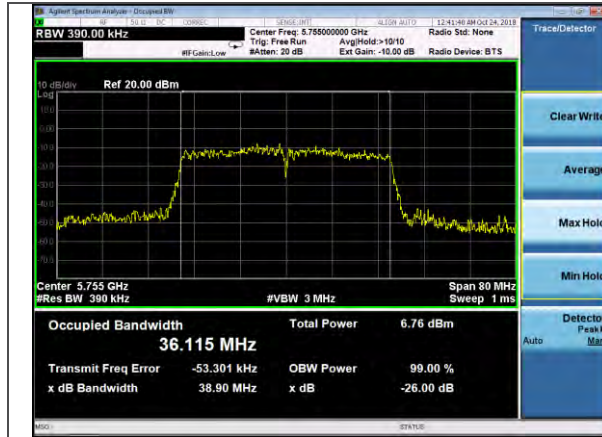
Channel 151



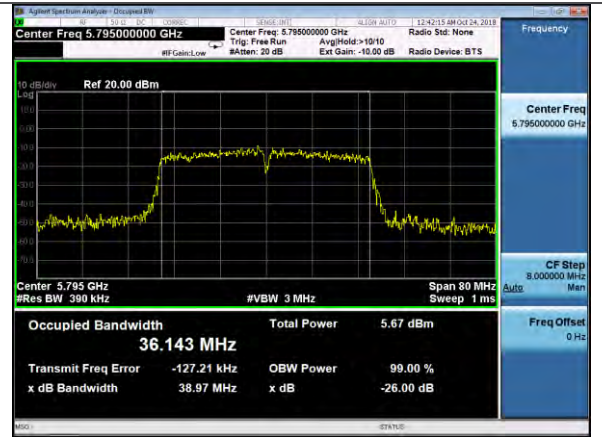
Channel 159

802.11ac MCS7 - 40 MHz

Bandwidth



Channel 151



Channel 159

Conducted Output Power

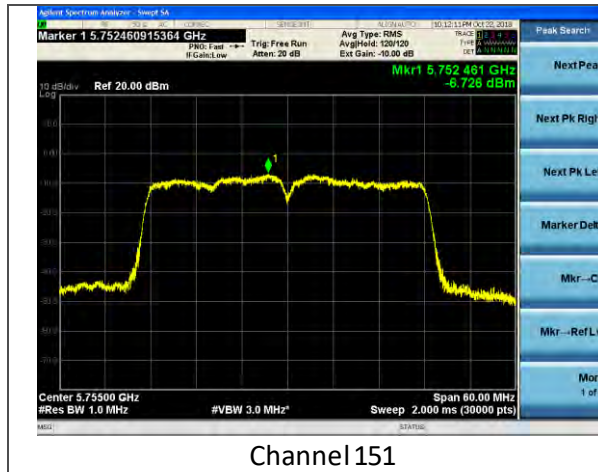


Channel 151



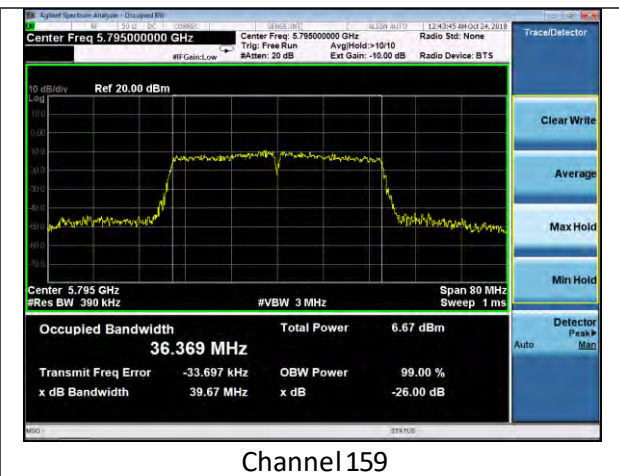
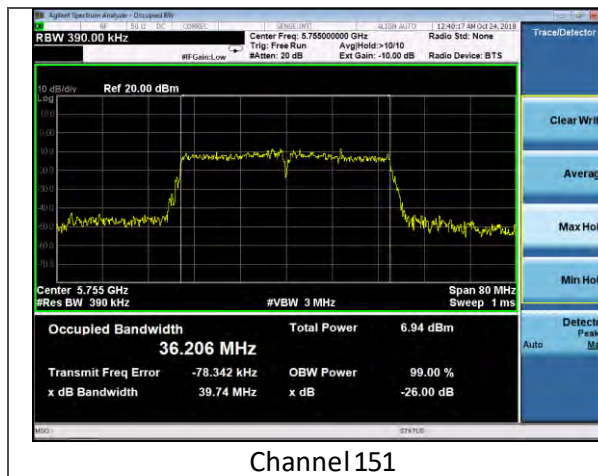
Channel 159

Peak Power Spectral Density

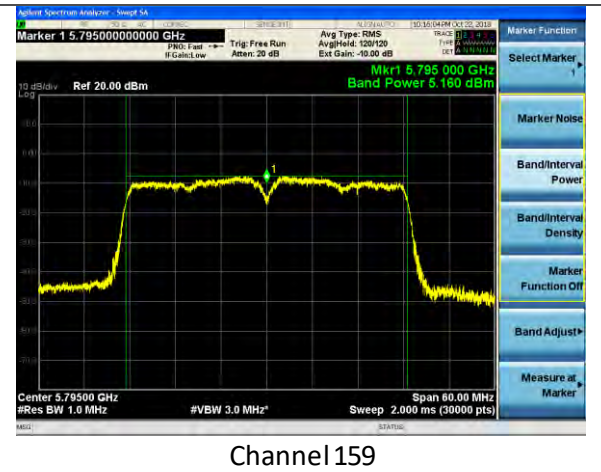
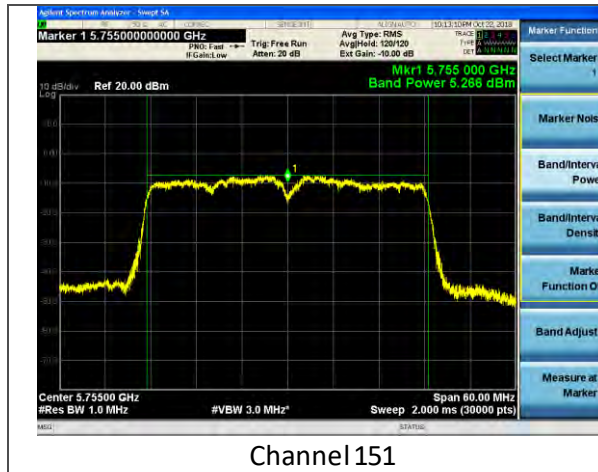


802.11ac MCS9 - 40 MHz

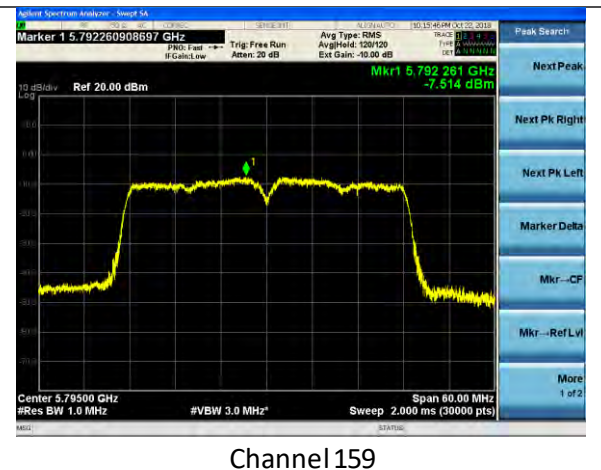
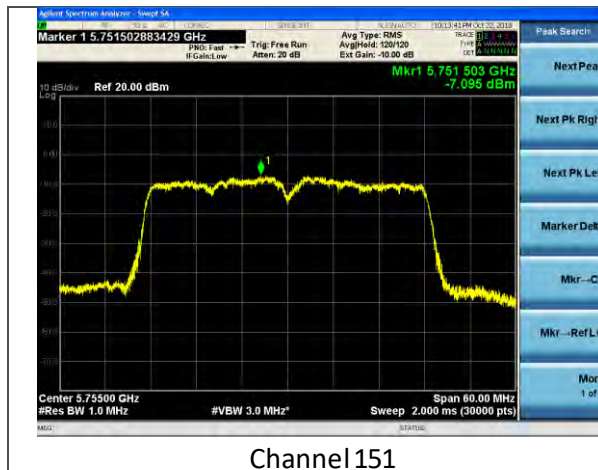
Bandwidth



Conducted Output Power

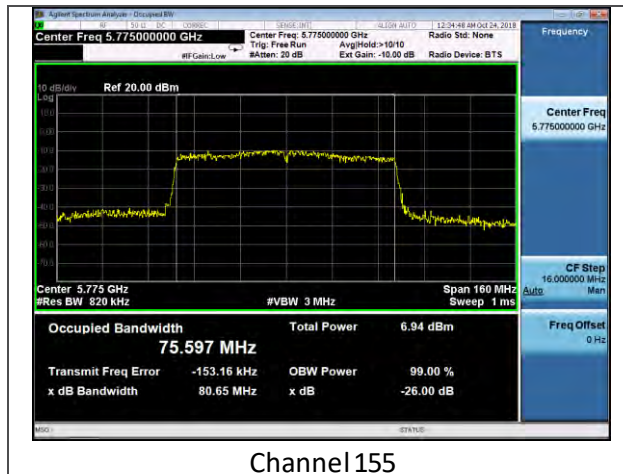


Peak Power Spectral Density

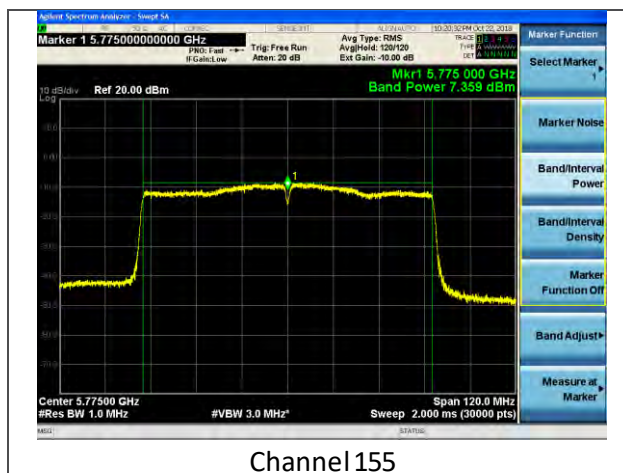


802.11ac MCS0 - 80 MHz

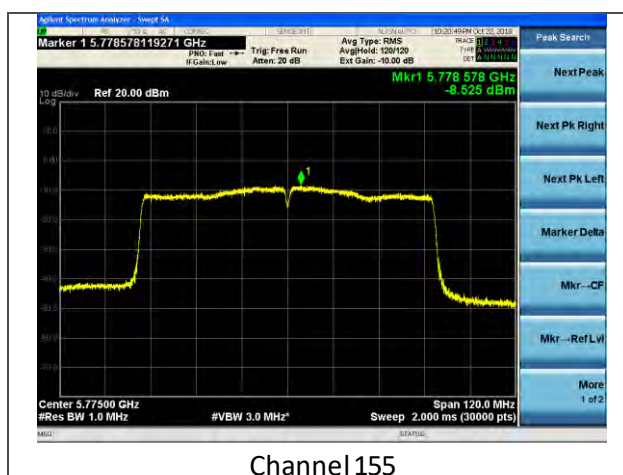
Bandwidth



Conducted Output Power

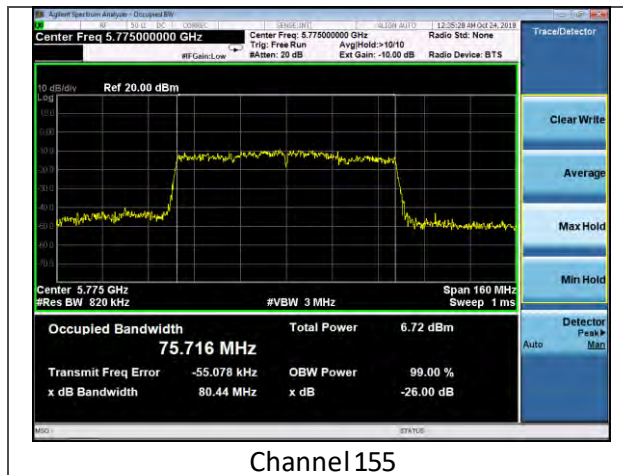


Peak Power Spectral Density

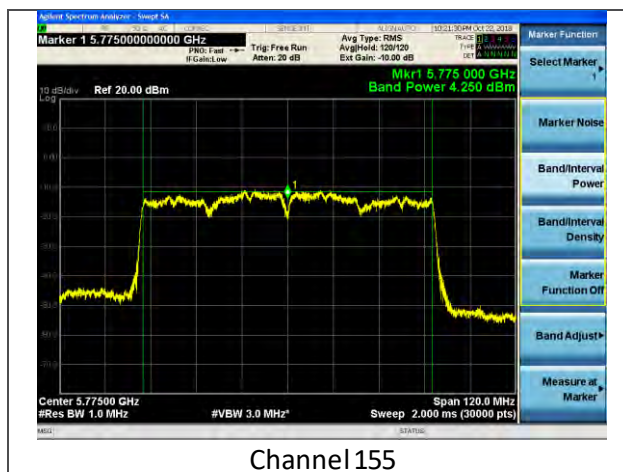


802.11ac MCS9 - 80 MHz

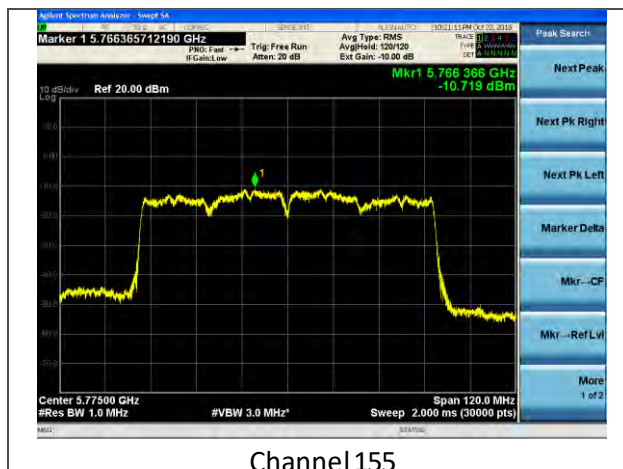
Bandwidth



Conducted Output Power



Peak Power Spectral Density



5.1.6 Antenna Port Conducted Emissions – Band Edges

Table

UNII 1 – 20 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5146.9	36	6 Mbps	-38.0	5.0	-33.0	-27.0	6.0
5387.6	48	6 Mbps	-52.3	5.0	-47.3	-27.0	16.3
5147.1	36	54 Mbps	-36.8	5.0	-31.8	-27.0	4.8
5396.5	48	54 Mbps	-53.4	5.0	-48.4	-27.0	21.4
5145.9	36	MCS0	-37.9	5.0	-32.9	-27.0	5.9
5390.2	48	MCS0	-52.6	5.0	-47.6	-27.0	20.6
5145.6	36	MCS7	-34.6	5.0	-29.6	-27.0	2.6
5388.1	48	MCS7	-50.4	5.0	-45.4	-27.0	18.4
5144.5	36	MCS8	-34.3	5.0	-29.3	-27.0	2.3
5394.1	48	MCS8	-53.0	5.0	-48.0	-27.0	21.0

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5149.7	36	6 Mbps	-49.9	0.3	5.0	-44.9	-41.2	3.7
5426.3	48	6 Mbps	-62.0	0.3	5.0	-57.0	-41.2	15.8
5149.2	36	54 Mbps	-49.9	1.9	5.0	-44.9	-41.2	3.7
5388.8	48	54 Mbps	-63.4	1.9	5.0	-58.4	-41.2	17.1
5147.3	36	MCS0	-52.5	0.3	5.0	-47.2	-41.2	6.0
5390.2	48	MCS0	-61.6	0.3	5.0	-56.3	-41.2	14.9
5146.5	36	MCS7	-52.4	2.1	5.0	-45.3	-41.2	4.1
5388.0	48	MCS7	-60.6	2.1	5.0	-53.5	-41.2	12.3
5146.0	36	MCS8	-53.5	2.2	5.0	-48.5	-41.2	7.3
5388.6	48	MCS8	-62.9	2.2	5.0	-57.9	-41.2	16.7

UNII 1 – 40 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5147.7	38	MCS0	-38.9	5.0	-33.9	-27.0	6.9
5351.8	46	MCS0	-50.7	5.0	-45.7	-27.0	18.7
5146.3	38	MCS7	-39.3	5.0	-34.3	-27.0	7.3
5372.0	46	MCS7	-50.9	5.0	-45.9	-27.0	18.9
5145.8	38	MCS9	-39.8	5.0	-34.8	-27.0	7.8
5352.4	46	MCS9	-50.2	5.0	-45.2	-27.0	18.2

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5148.7	38	MCS0	-50.6	0.6	5.0	-45.1	-41.2	4.3
5381.6	46	MCS0	-60.8	0.6	5.0	-55.2	-41.2	13.9
5149.4	38	MCS7	-53.9	3.0	5.0	-45.9	-41.2	4.7
5351.1	46	MCS7	-61.9	3.0	5.0	-53.9	-41.2	12.7
5146.6	38	MCS9	-53.2	3.3	5.0	-48.2	-41.2	7.0
5352.3	46	MCS9	-61.8	3.3	5.0	-56.8	-41.2	15.6

UNII 1 – 80 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5146.6	42	MCS0	-38.2	5.0	-33.2	-27.0	6.2
5371.9	42	MCS0	-51.6	5.0	-46.6	-27.0	19.6
5149.2	42	MCS9	-41.5	5.0	-36.5	-27.0	9.5
5361.5	42	MCS9	-50.4	5.0	-45.4	-27.0	18.4

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5149.9	42	MCS0	-50.1	1.1	5.0	-44.0	-41.2	2.8
5356.3	42	MCS0	-61.1	1.1	5.0	-55.0	-41.2	13.8
5143.2	42	MCS9	-54.9	4.0	5.0	-45.9	-41.2	4.7
5364.1	42	MCS9	-63.0	4.0	5.0	-54.0	-41.2	12.8

UNII 1 – 5250-5350 MHz Band (ISED-Only Requirement)

Data Rate	Channel	Power Setting	Frequency (MHz)	Peak Spurious Reading (dBm)	Antenna Gain (dBi)	Peak Spurious Total (dBm)	Pout (dBm)	Pout Correction Factor (dB)	ERP (dBm)	Peak Margin (dB)
6 MBPS	44.0	13.5	5250.0	-49.3	5.0	-44.3	11.7	0.3	12.0	56.3
54 MBPS	44.0	13.5	5255.1	-49.3	5.0	-44.3	9.7	1.9	11.6	55.8
HT20 MCS0	44.0	14.0	5251.4	-46.4	5.0	-41.4	11.5	0.3	11.8	53.2
HT20 MCS7	44.0	14.0	5251.0	-48.8	5.0	-43.8	9.0	2.1	11.1	54.9
HT20 MCS8	44.0	14.0	5250.4	-49.2	5.0	-44.2	8.9	2.2	11.1	55.3
HT40 MCS0	46.0	11.5	5250.2	-26.3	5.0	-21.3	8.9	0.6	9.5	30.8
HT40 MCS7	46.0	11.5	5250.7	-27.3	5.0	-22.3	6.4	3.0	9.4	31.6
HT40 MCS9	46.0	11.5	5250.1	-26.3	5.0	-21.3	6.5	3.3	9.8	31.0
HT80 MCS0	42.0	10.5	5250.0	-24.3	5.0	-19.3	7.1	1.2	8.3	27.6
HT80 MCS9	42	10.5	5250.2	-24.3	5.0	-19.3	4.0	4.0	8.0	27.3

UNII 2A – 20 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5109.42	52	6 MBPS	-54.3	5.0	-49.3	-27.0	22.3
5350.77	64	6 MBPS	-34.2	5.0	-29.2	-27.0	2.2
5149.78	52	54 MBPS	-54.2	5.0	-49.2	-27.0	22.2
5354.02	64	54 MBPS	-34.8	5.0	-29.8	-27.0	2.8
5114.86	52	MCS0	-55.6	5.0	-50.6	-27.0	23.6
5351.79	64	MCS0	-34.2	5.0	-29.2	-27.0	2.2
5149.46	52	MCS7	-55.3	5.0	-50.3	-27.0	23.3
5350.18	64	MCS7	-34.8	5.0	-29.8	-27.0	2.8
5137.13	52	MCS8	-55.6	5.0	-50.6	-27.0	23.6
5351.26	64	MCS8	-36.2	5.0	-31.2	-27.0	4.2

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5112.32	52	6 MBPS	-64.0	0.3	5.0	-58.7	-41.2	17.5
5351.26	64	6 MBPS	-48.2	0.3	5.0	-42.9	-41.2	1.7
5109.11	52	54 MBPS	-65.1	1.9	5.0	-58.2	-41.2	17.0
5353.17	64	54 MBPS	-50.6	1.9	5.0	-43.7	-41.2	2.5
5111.84	52	MCS0	-64.2	0.3	5.0	-58.9	-41.2	17.7
5350.31	64	MCS0	-53.5	0.3	5.0	-48.2	-41.2	7.0
5118.17	52	MCS7	-65.8	2.1	5.0	-58.7	-41.2	17.5
5350.54	64	MCS7	-54.9	2.1	5.0	-47.8	-41.2	6.6
5072.63	52	MCS8	-65.8	2.2	5.0	-58.6	-41.2	17.4
5352.50	64	MCS8	-53.3	2.2	5.0	-46.1	-41.2	4.9

UNII 2A – 40 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5143.11	54	MCS0	-53.6	5.0	-48.6	-27.0	21.6
5358.50	62	MCS0	-35.2	5.0	-30.2	-27.0	3.2
5146.49	54	MCS7	-53.7	5.0	-48.7	-27.0	21.7
5354.26	62	MCS7	-39.6	5.0	-34.6	-27.0	7.6
5149.59	54	MCS9	-51.0	5.0	-46.0	-27.0	19.0
5350.35	62	MCS9	-36.6	5.0	-31.6	-27.0	4.6

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
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5148.48	54	MCS0	-60.7	0.6	5.0	-55.1	-41.2	13.9
5350.84	62	MCS0	-51.0	0.6	5.0	-45.4	-41.2	4.2
5149.89	54	MCS7	-64.2	3.0	5.0	-56.2	-41.2	15.0
5350.55	62	MCS7	-54.8	3.0	5.0	-46.8	-41.2	5.6
5143.93	54	MCS9	-64.2	3.3	5.0	-55.9	-41.2	14.7
5350.42	62	MCS9	-55.3	3.3	5.0	-47.0	-41.2	5.8

UNII 2A – 80 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5146.84	58	MCS0	-49.9	5.0	-45.9	-27.0	18.9
5355.82	58	MCS0	-36.0	5.0	-31.0	-27.0	4.0
5147.64	58	MCS9	-50.0	5.0	-45.0	-27.0	18.0
5358.24	58	MCS9	-53.6	5.0	-48.6	-27.0	21.6

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5148.77	58	MCS0	-59.6	1.1	5.0	-53.5	-41.2	12.3
5351.19	58	MCS0	-48.7	1.1	5.0	-42.6	-41.2	1.4
5144.76	58	MCS9	-61.5	4.0	5.0	-52.5	-41.2	11.3
5358.24	58	MCS9	-53.6	4.0	5.0	-42.6	-41.2	1.4

UNII 2C – 20 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5469.94	100	6 MBPS	-34.8	5.0	-29.8	-27.0	2.8
5469.95	100	54 MBPS	-37.9	5.0	-32.9	-27.0	5.9
5467.60	100	MCS0	-37.5	5.0	-32.5	-27.0	5.5
5469.26	100	MCS7	-37.9	5.0	-32.9	-27.0	5.9
5469.41	100	MCS8	-36.2	5.0	-31.2	-27.0	4.2

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5459.18	100	6 MBPS	-52.4	0.3	5.0	-47.1	-41.2	5.9
5458.17	100	54 MBPS	-54.4	1.9	5.0	-47.5	-41.2	6.3
5459.58	100	MCS0	-53.6	0.3	5.0	-48.3	-41.2	7.1
5456.23	100	MCS7	-55.8	2.1	5.0	-48.7	-41.2	7.5
5459.78	100	MCS8	-54.9	2.2	5.0	-47.7	-41.2	6.5

UNII 2C – 40 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5468.60	102	MCS0	-39.9	5.0	-29.8	-27.0	2.8
5467.89	102	MCS7	-40.0	5.0	-32.9	-27.0	5.9
5469.90	102	MCS9	-44.7	5.0	-32.5	-27.0	5.5

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5469.90	102	MCS0	-53.9	0.6	5.0	-48.3	-41.2	7.1
5458.82	102	MCS7	-59.4	3.0	5.0	-51.4	-41.2	10.2
5458.31	102	MCS9	-59.2	3.3	5.0	-50.9	-41.2	9.7

UNII 2C – 80 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5465.98	106	MCS0	-38.1	5.0	-33.1	-27.0	6.1
5466.18	106	MCS9	-39.5	5.0	-34.5	-27.0	7.5

Frequency (MHz)	Channel	Data Rate	Average Measurement (dBm)	Duty Cycle Correction (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5459.45	106	MCS0	-49.0	1.1	5.0	-42.9	-41.2	1.7
5458.72	106	MCS9	-52.4	4.0	5.0	-43.4	-41.2	2.2

UNII 3 – 20 MHz

Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5651.0	149	6 MBPS	-36.2	5.0	-31.2	-26.3	4.9
5614.6	153	6 MBPS	-43.5	5.0	-38.5	-27.0	11.5
5972.9	165	6 MBPS	-44.2	5.0	-39.2	-27.0	12.2
5952.7	161	6 MBPS	-44.2	5.0	-39.2	-27.0	12.2
5976.3	165	54 MBPS	-44.2	5.0	-39.2	-27.0	12.2
5957.1	161	54 MBPS	-44.4	5.0	-39.4	-27.0	12.4
5634.1	149	54 MBPS	-38.4	5.0	-33.4	-27.0	6.4
5652.1	153	54 MBPS	-40.6	5.0	-35.6	-25.5	10.1
5647.1	149	MCS0	-34.4	5.0	-29.4	-27.0	2.4

5645.6	153	MCS0	-38.8	5.0	-33.8	-27.0	6.8
5976.7	165	MCS0	-44.8	5.0	-39.8	-27.0	12.8
5953.0	161	MCS0	-44.2	5.0	-39.2	-27.0	12.2
5649.0	149	MCS8	-34.5	5.0	-29.5	-27.0	2.5
5645.2	153	MCS8	-37.0	5.0	-32.0	-27.0	5.0
5978.2	165	MCS8	-43.9	5.0	-38.9	-27.0	11.9
5957.9	161	MCS8	-43.4	5.0	-38.4	-27.0	11.4

UNII 3 – 40 MHz

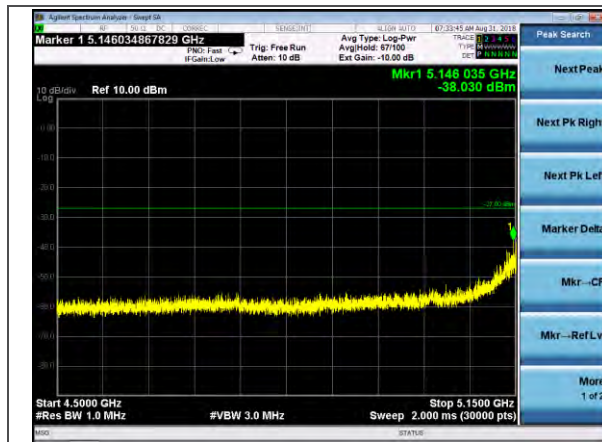
Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5650.7	151	MCS0	-35.5	5.0	-30.5	-26.4	4.1
5927.2	159	MCS0	-40.4	5.0	-35.4	-27.0	8.4
5647.2	159	MCS7	-34.9	5.0	-29.9	-27.0	2.9
5920.7	159	MCS7	-37.2	5.0	-32.2	-27.0	5.2
5646.2	151	MCS9	-34.4	5.0	-29.4	-27.0	2.4
5925.6	159	MCS9	-38.9	5.0	-33.9	-27.0	6.9

UNII 3 – 80 MHz

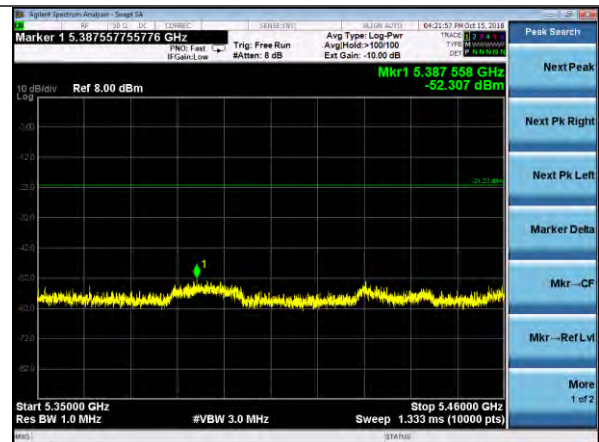
Frequency (MHz)	Channel	Data Rate	Peak Measurement (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5652.2	155	MCS0	-34.7	5.0	-29.7	-27.0	2.7
5642.4	155	MCS9	-34.9	5.0	-29.9	-27.0	2.9
5930.3	155	MCS0	-42.1	5.0	-37.1	-27.0	10.1
5930.1	155	MCS9	-40.8	5.0	-35.8	-27.0	8.8

Band Edge Screenshots

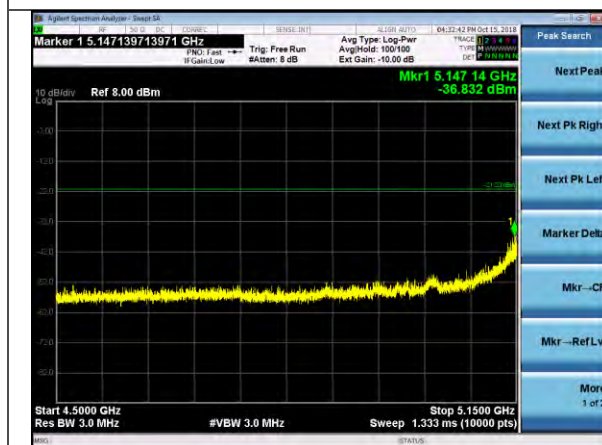
UNII 1 – 20 MHz Peak



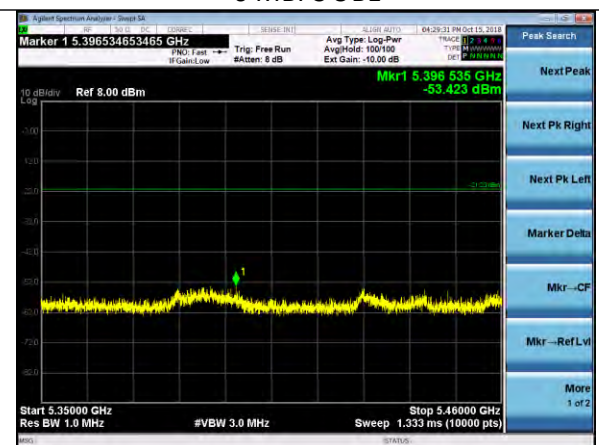
6 MBPS LBE



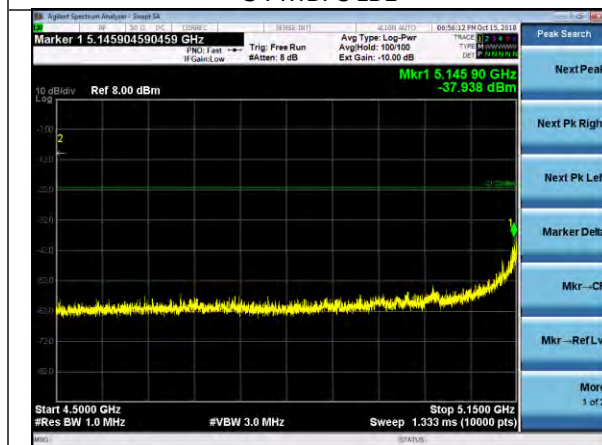
6 MBPS UBE



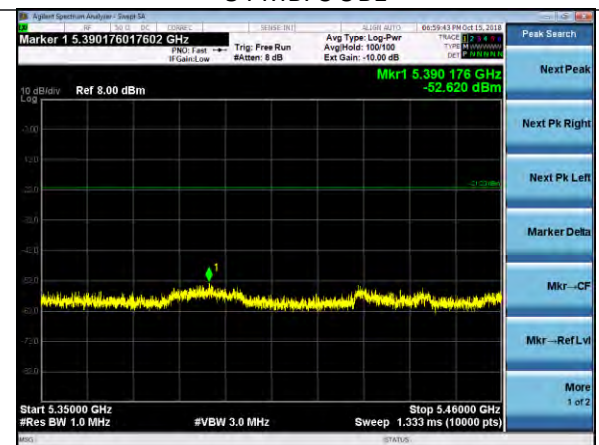
54 MBPS LBE



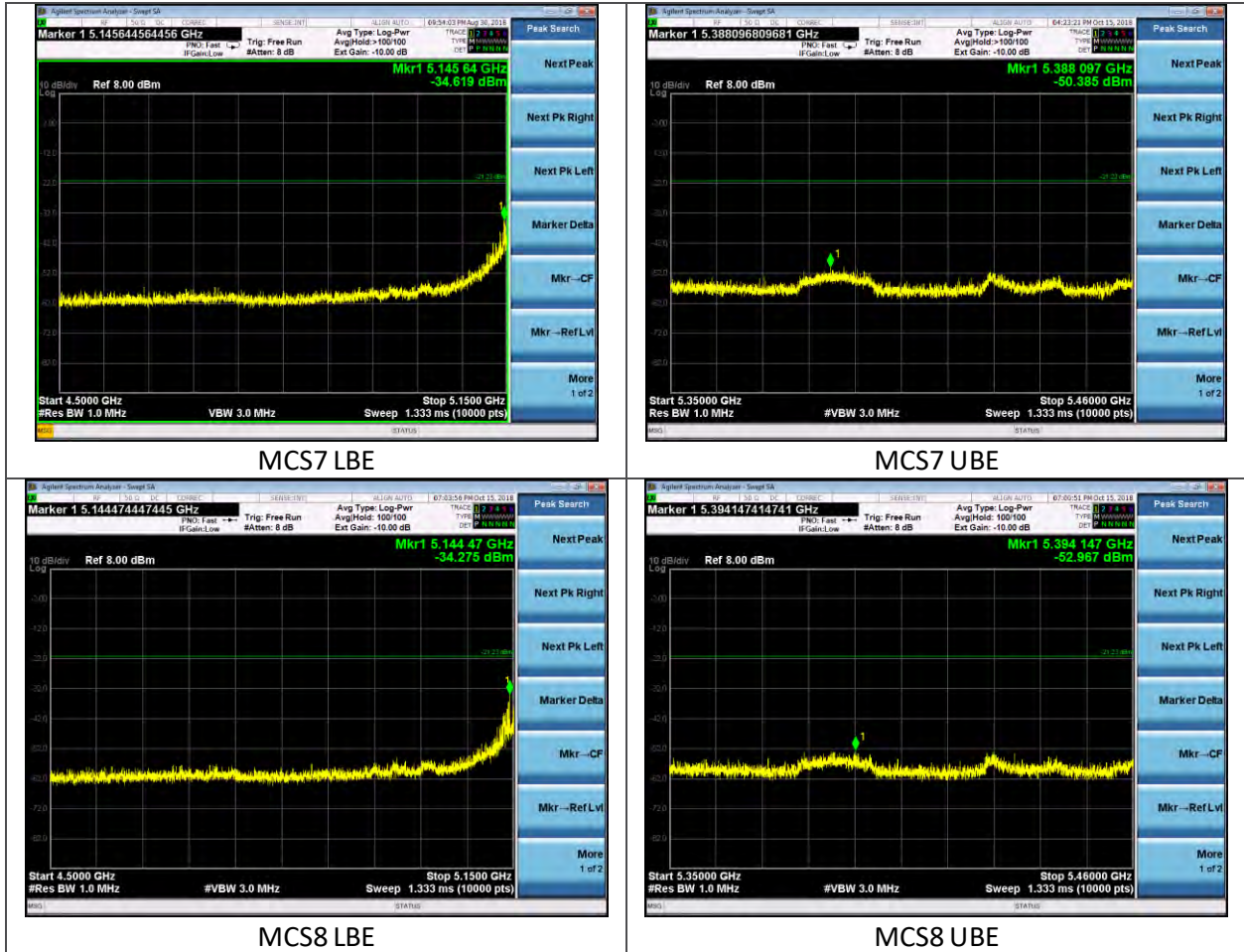
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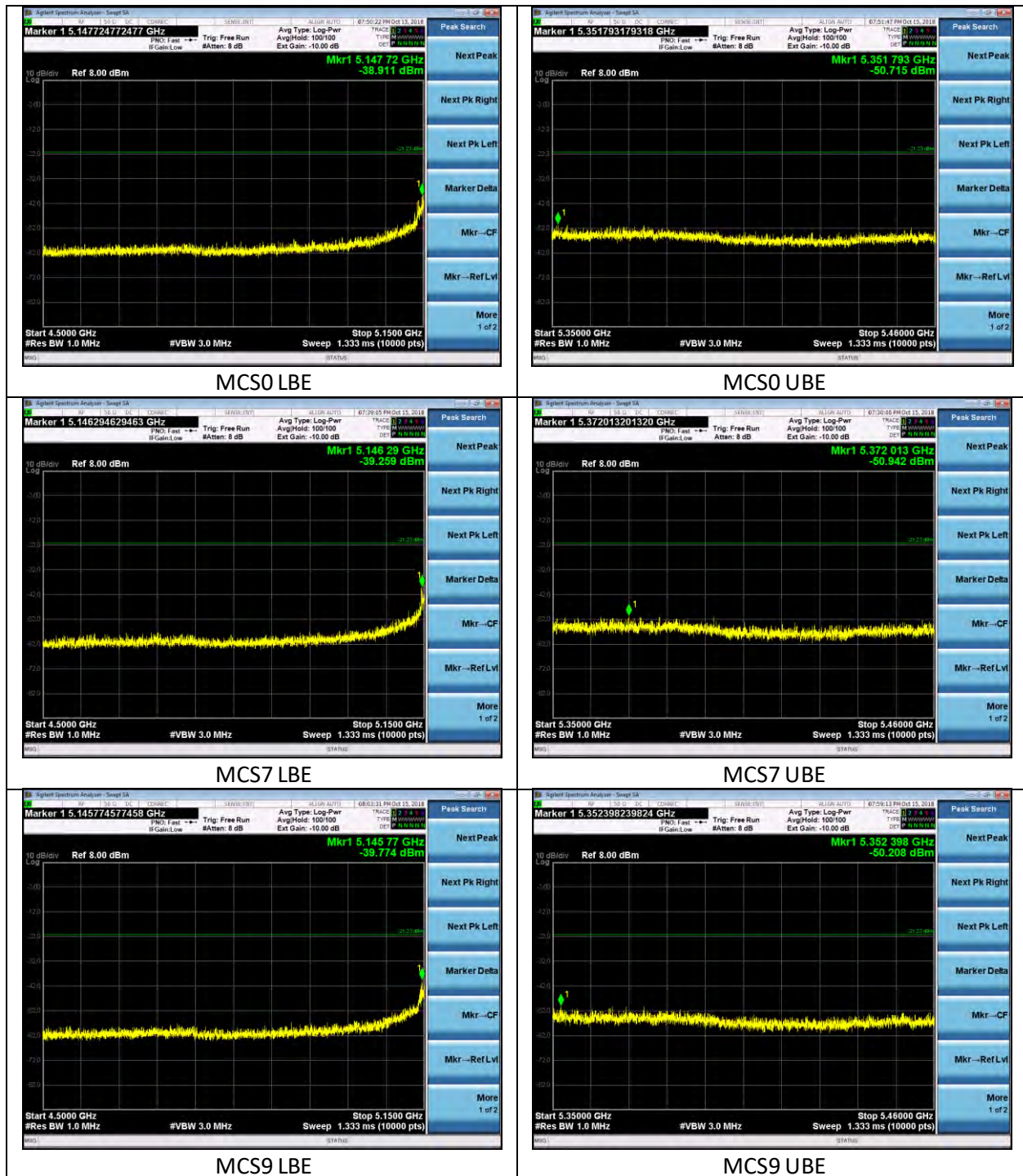
MCS0 LBE



MCS0 UBE

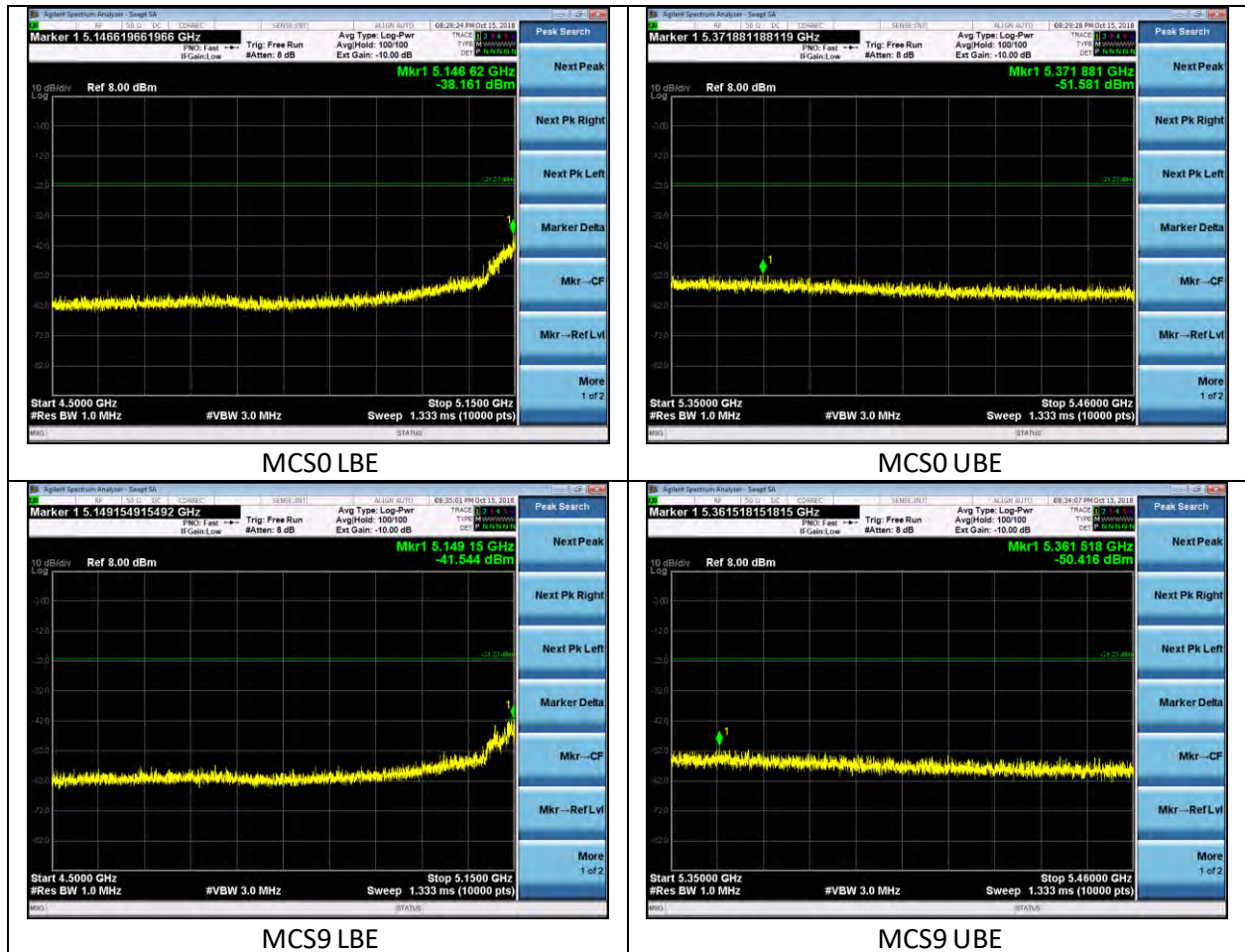


UNII 1 – 40 MHz Peak

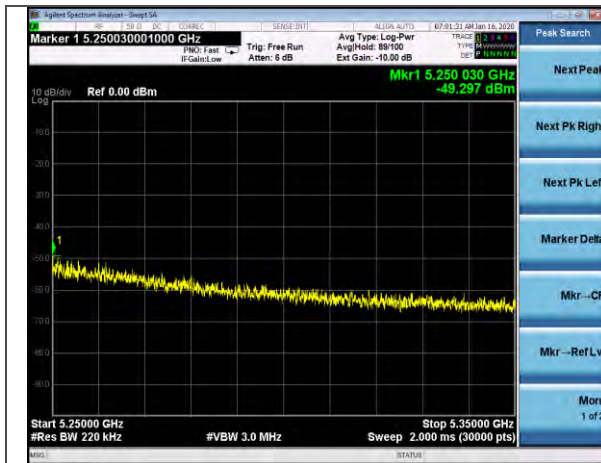


UNII 1 – 80 MHz Peak

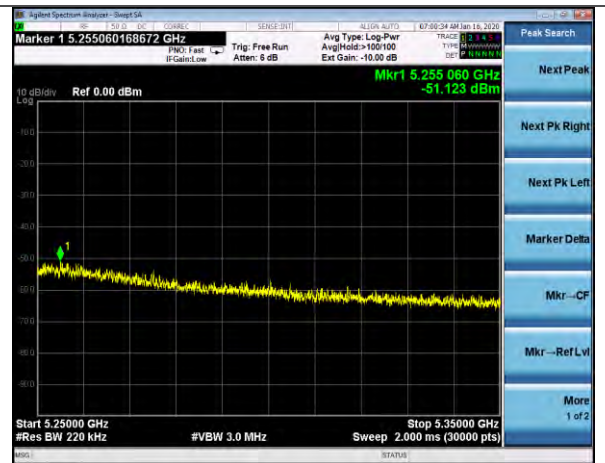
Company: Philips North America LLC	Page 147 of 228	Name: PHC-11AC1-A
Report: 317347A		Model: PHC-11AC1-A
Job: C-3013		Serial: Engineering Samples



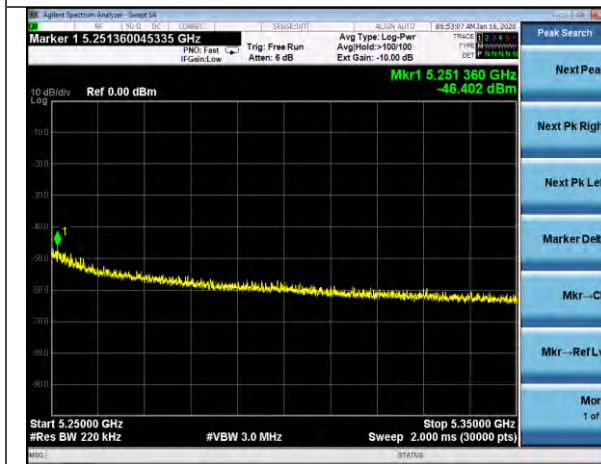
UNII 1 – 5250-5350 Band (Peak) – Worst Case Shown



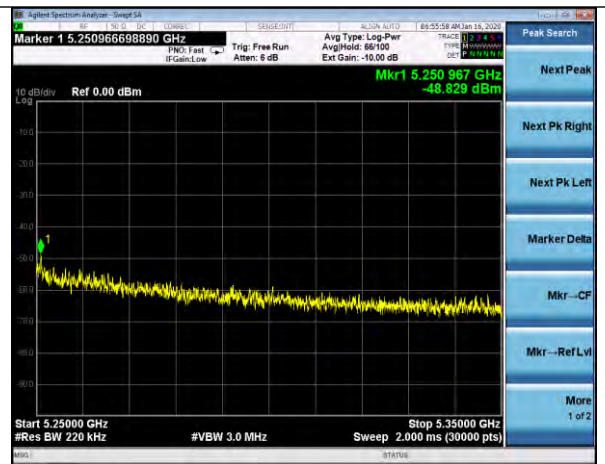
6 MBPS 5250-5350 MHz Channel 44



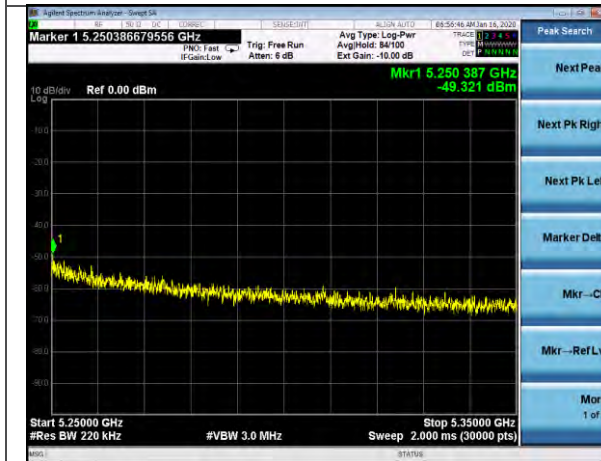
54 MBPS 5250-5350 MHz Channel 44



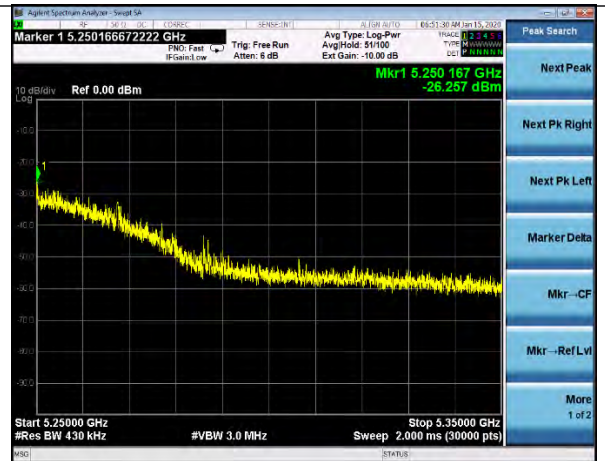
MCS0 HT20 5250-5350 MHz Channel 44



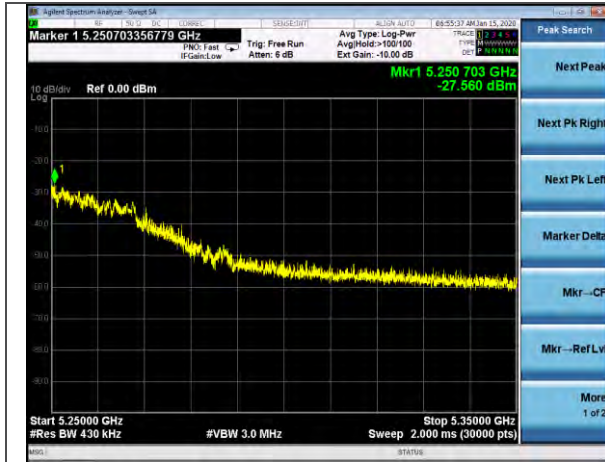
MCS7 HT20 5250-5350 MHz Channel 44



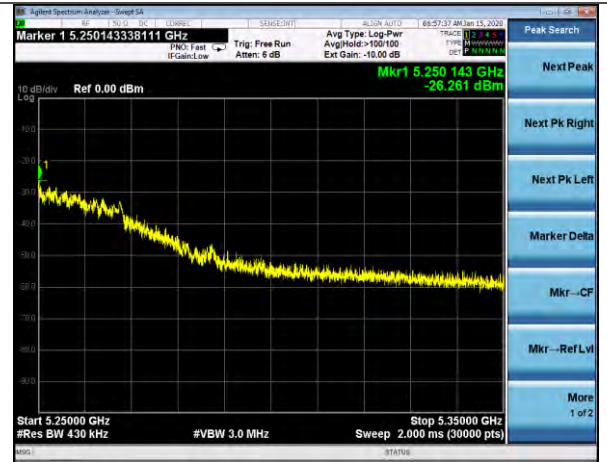
MCS8 HT20 5250-5350 MHz Channel 44



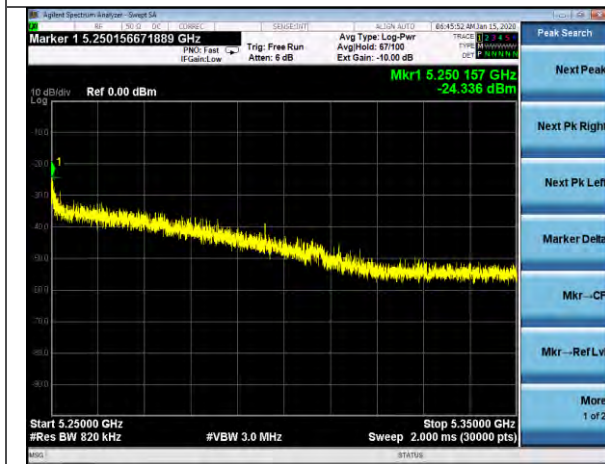
MCS0 HT40 5250-5350 MHz Channel 46



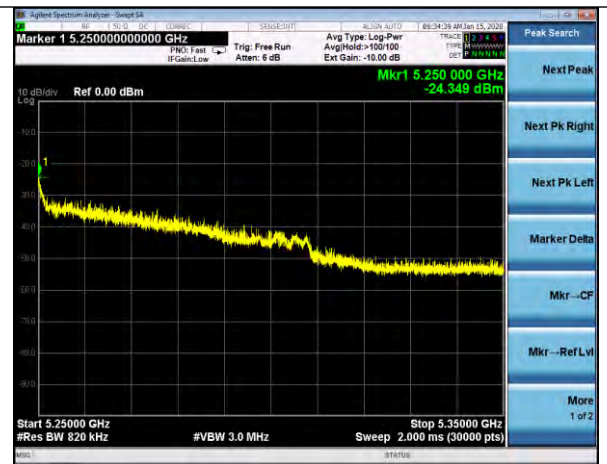
MCS7 HT40 5250-5350 MHz Channel 46



MCS9 HT40 5250-5350 MHz Channel 46



MCS0 HT80 5250-5350 MHz Channel 42



MCS9 HT80 5250-5350 MHz Channel 42

UNII 1 – 20 MHz Average

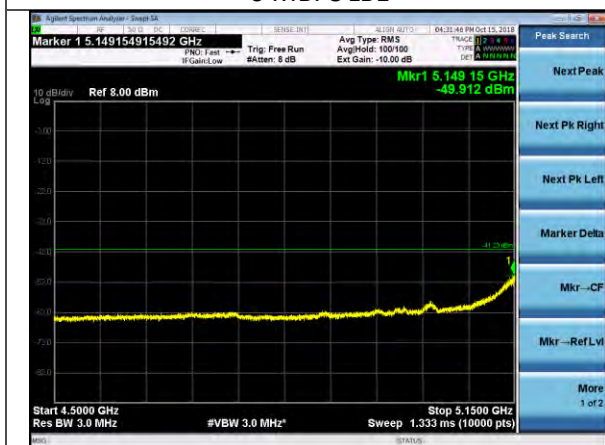
Company: Philips North America LLC	Page 151 of 228	Name: PHC-11AC1-A
Report: 317347 A		Model: PHC-11AC1-A
Job: C-3013		Serial: Engineering Samples



6 MBPS LBE



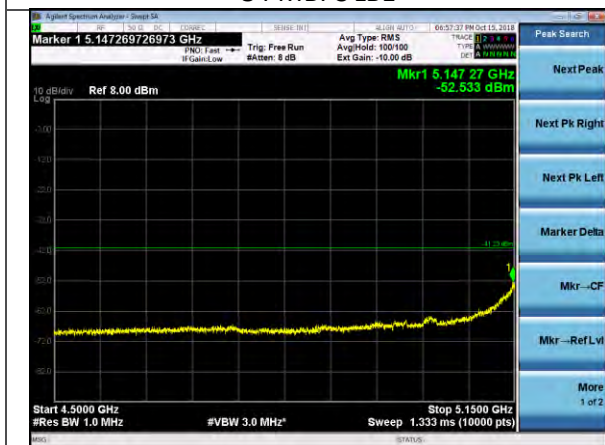
6 MBPS UBE



54 MBPS LBE



54 MBPS UBE



MCS0 LBE



MCS0 UBE



MCS7 LBE



MCS7 UBE

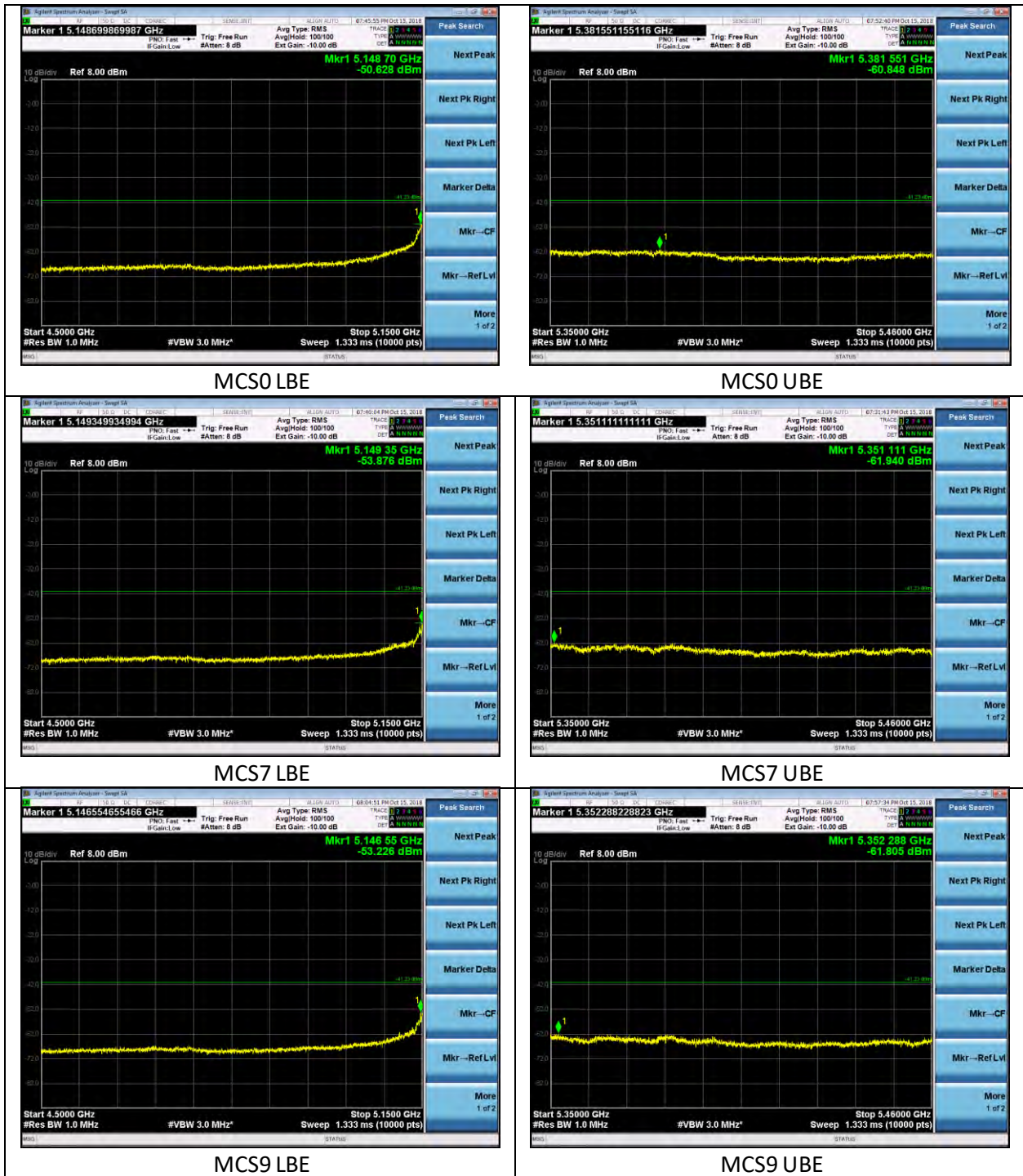


MCS8 LBE

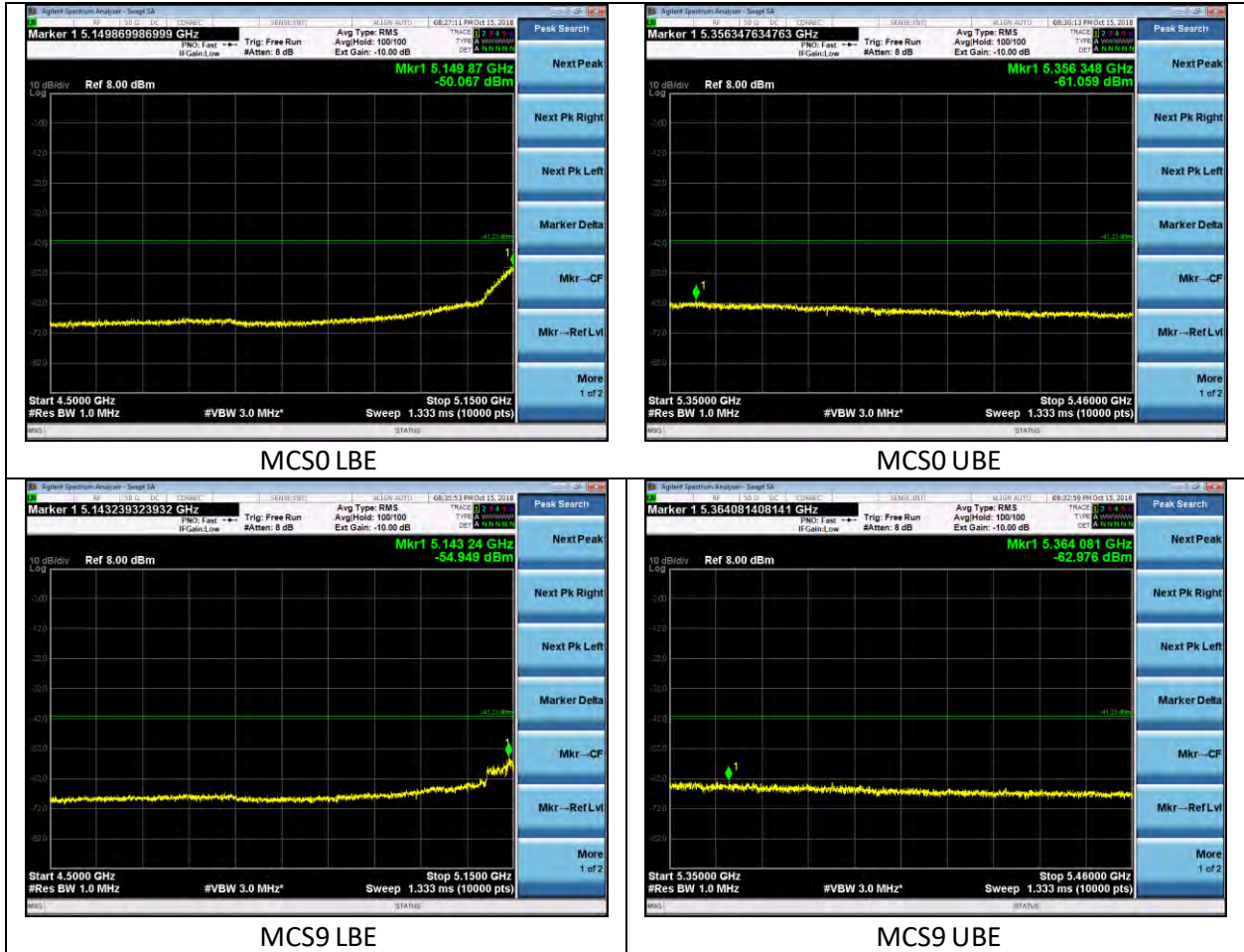


MCS8 UBE

UNII 1 – 40 MHz Average

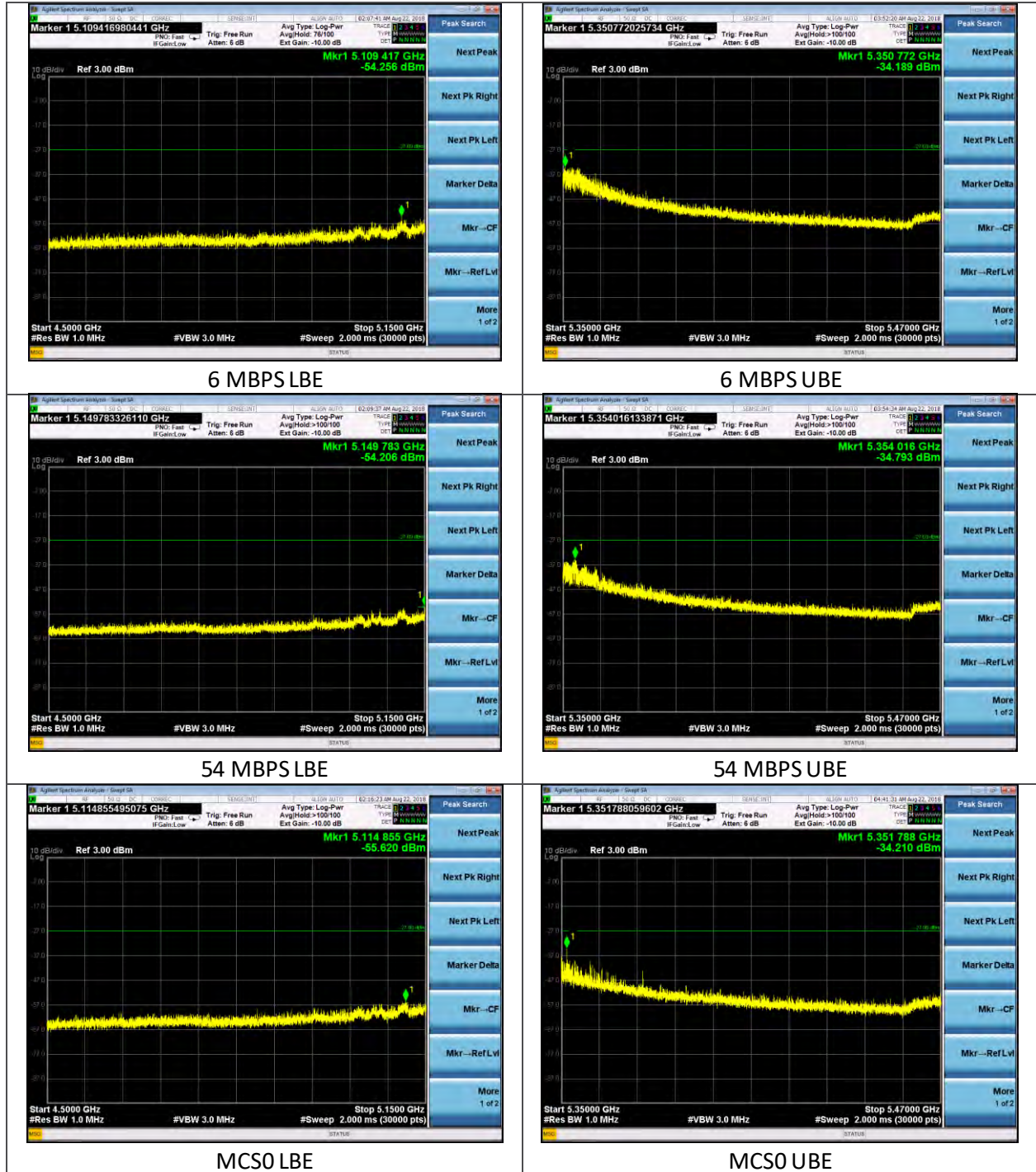


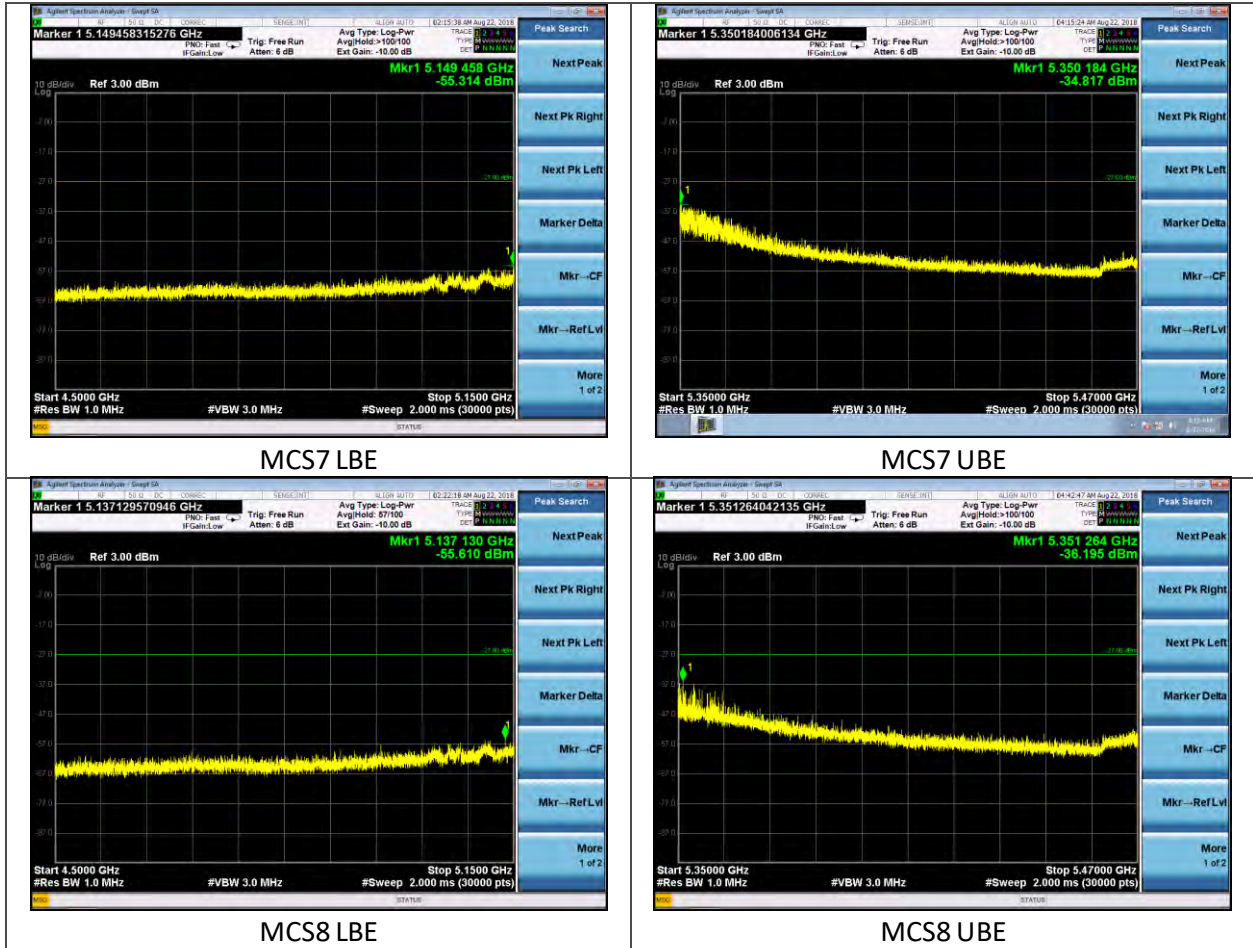
UNII 1 – 80 MHz Average



UNII 2A – 20 MHz Peak

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UNII 2A – 40 MHz Peak