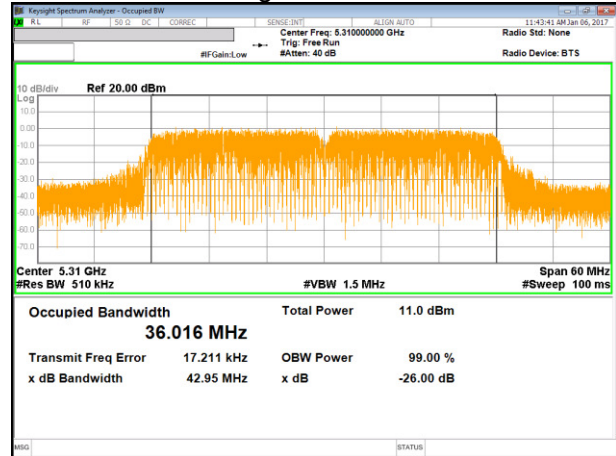


UNII 5.3 GHz IEEE 802.11n HT40 mode

11n HT40 Mode Low Channel

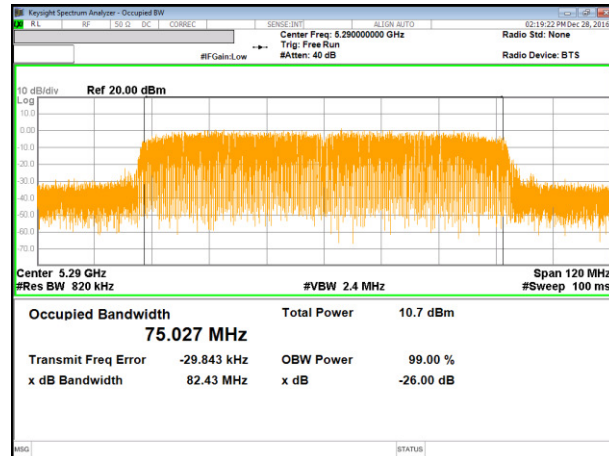


11n HT40 Mode High Channel



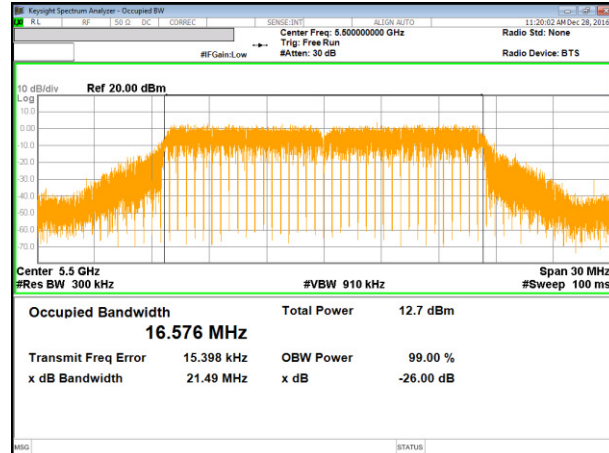
UNII 5.3 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel

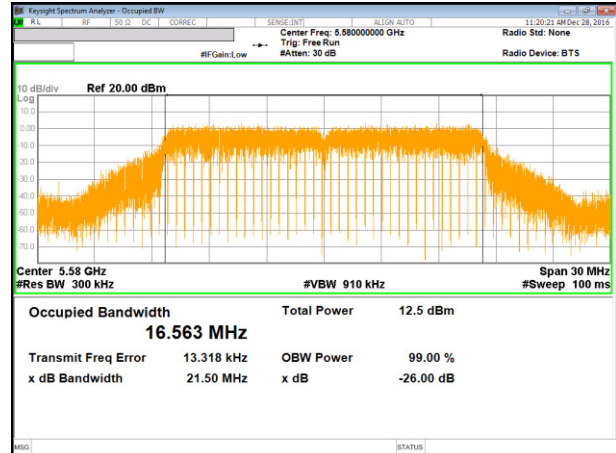


UNII 5.5 GHz IEEE 802.11a mode

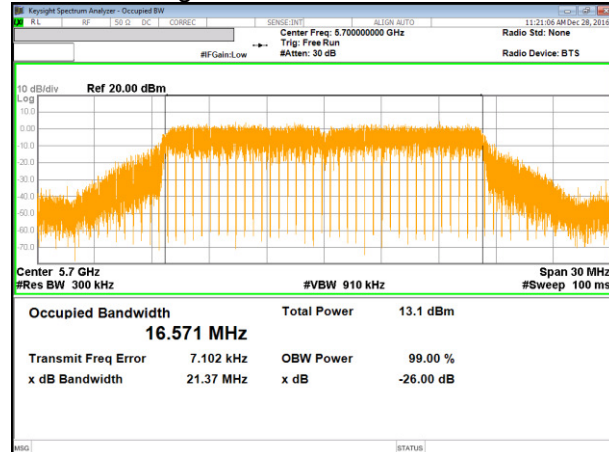
11a Mode Low Channel



11a Mode Middle Channel

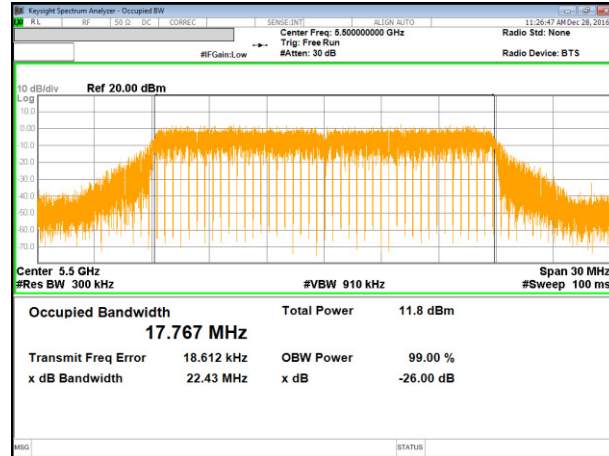


11a Mode High Channel

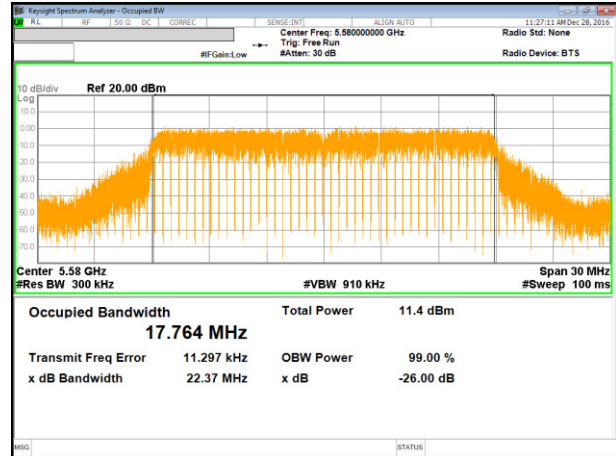


UNII 5.5 GHz IEEE 802.11n HT20 mode

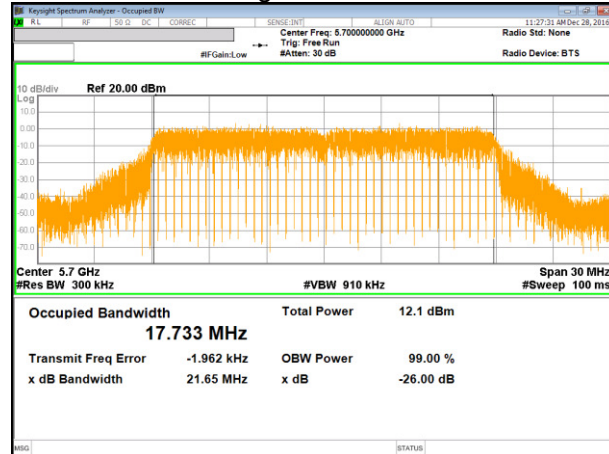
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

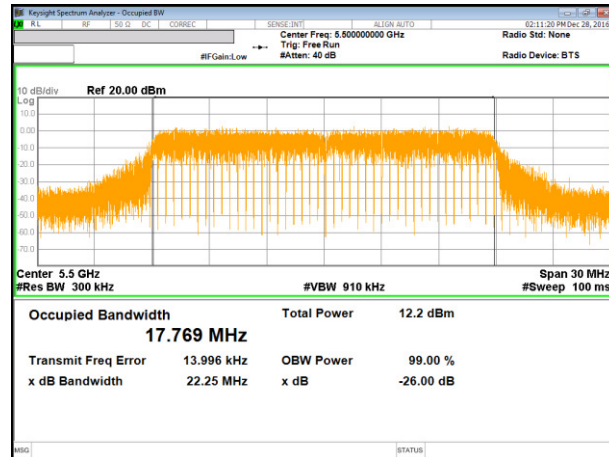


11n HT20 Mode High Channel

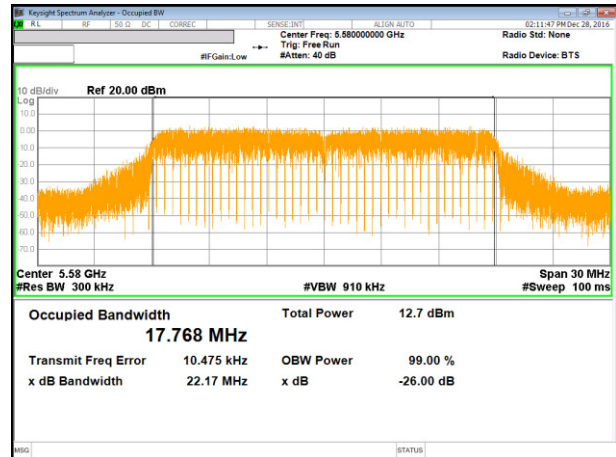


UNII 5.5 GHz IEEE 802.11ac VHT20 mode

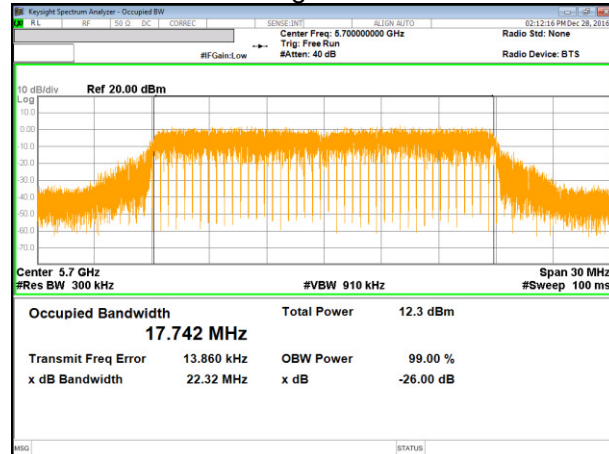
11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel

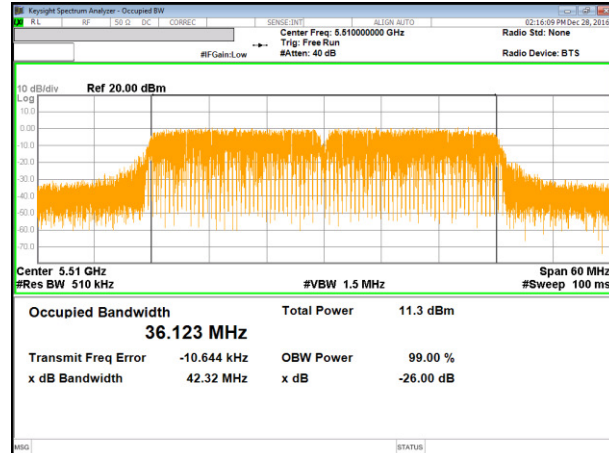


11ac VHT20 Mode High Channel



UNII 5.5 GHz IEEE 802.11n HT40 mode

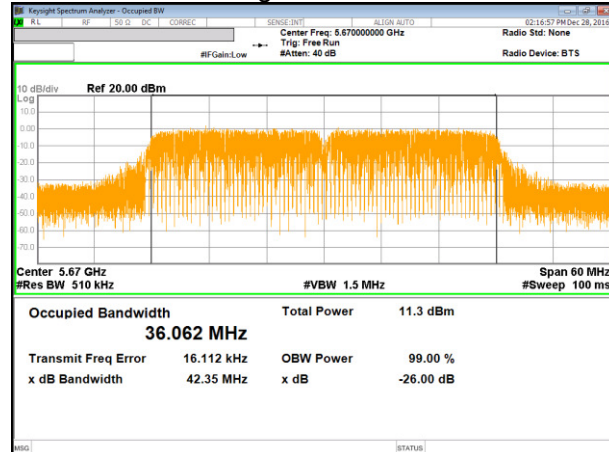
11n HT40 Mode Low Channel



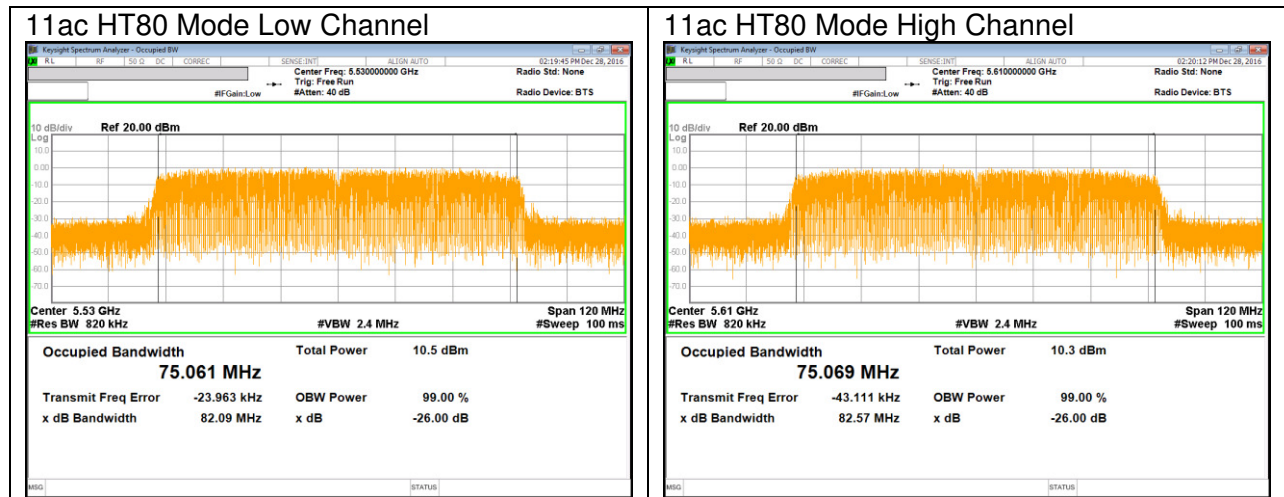
11n HT40 Mode Middle Channel



11n HT40 Mode High Channel

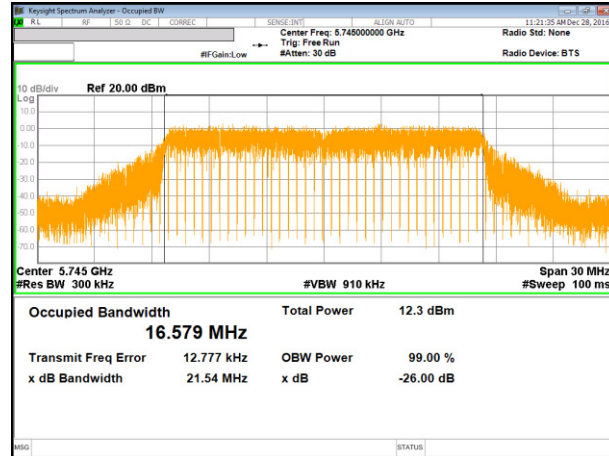


UNII 5.5 GHz IEEE 802.11ac VHT80 mode

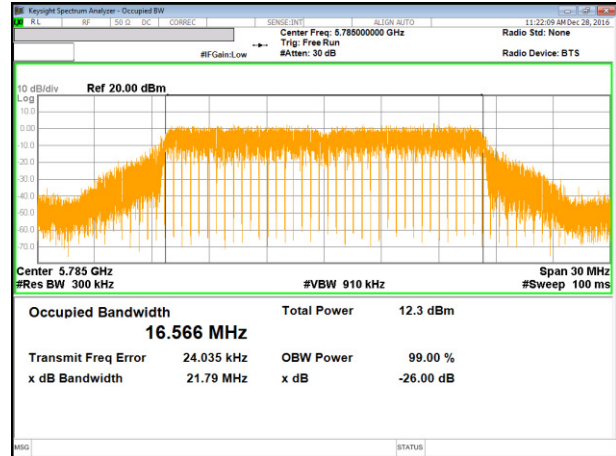


UNII 5.8 GHz IEEE 802.11a mode

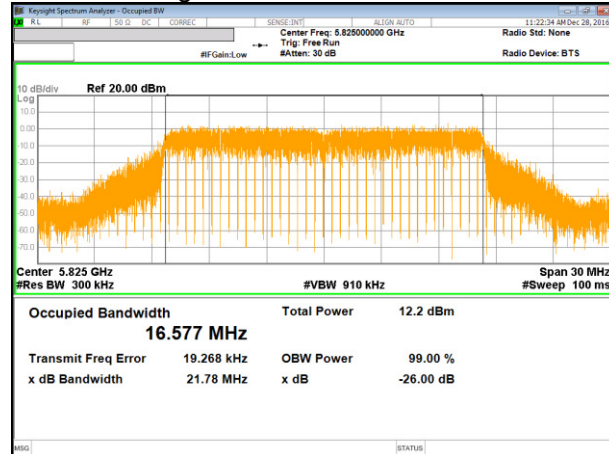
11a Mode Low Channel



11a Mode Middle Channel

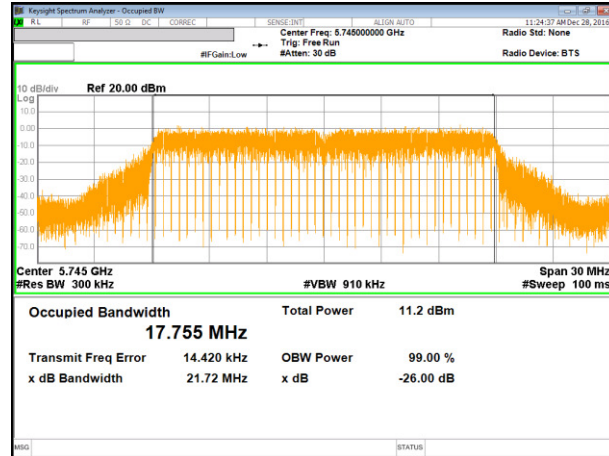


11a Mode High Channel

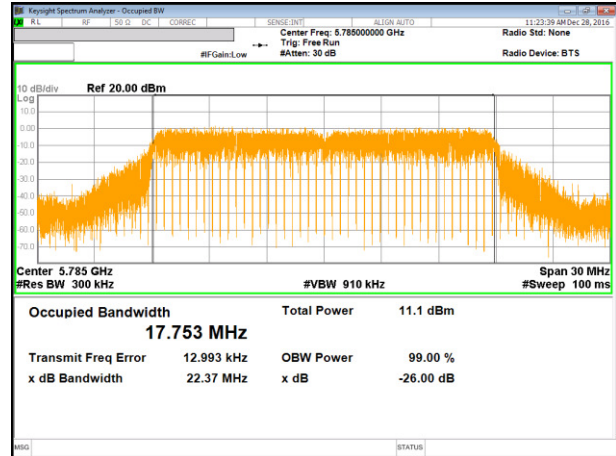


UNII 5.8 GHz IEEE 802.11n HT20 mode

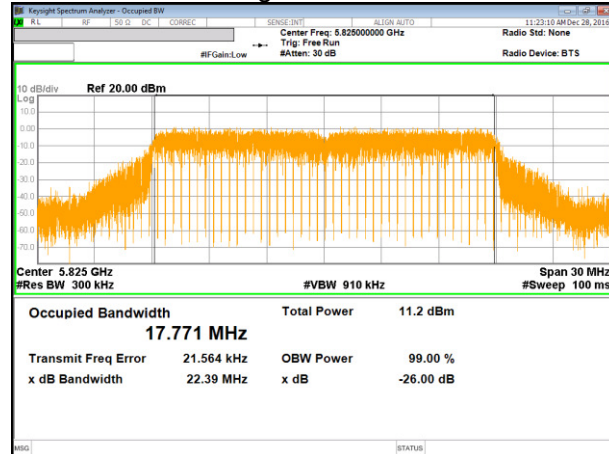
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

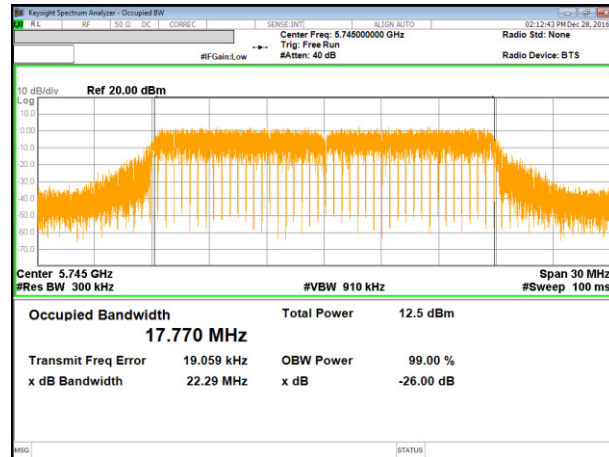


11n HT20 Mode High Channel

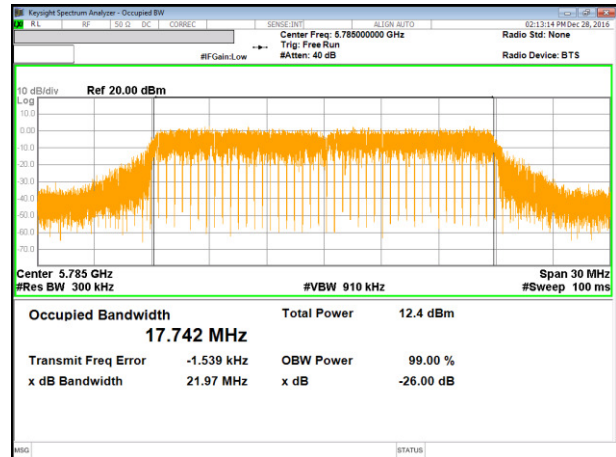


UNII 5.8 GHz IEEE 802.11ac VHT20 mode

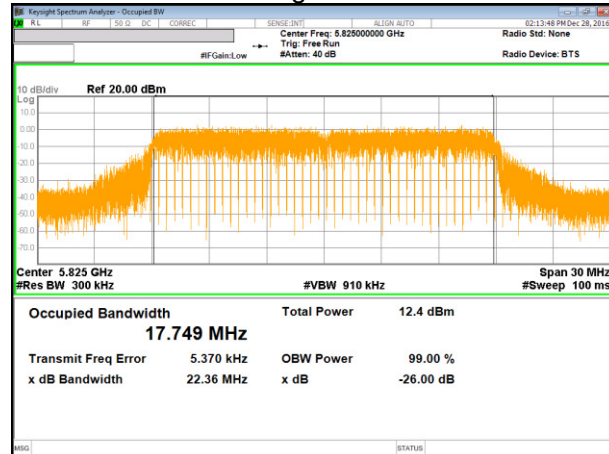
11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel

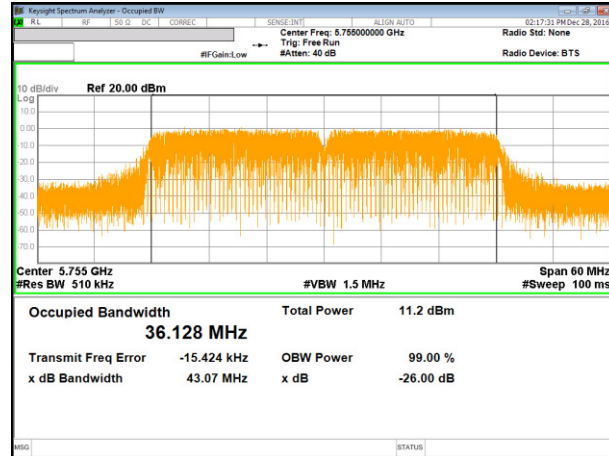


11ac VHT20 Mode High Channel

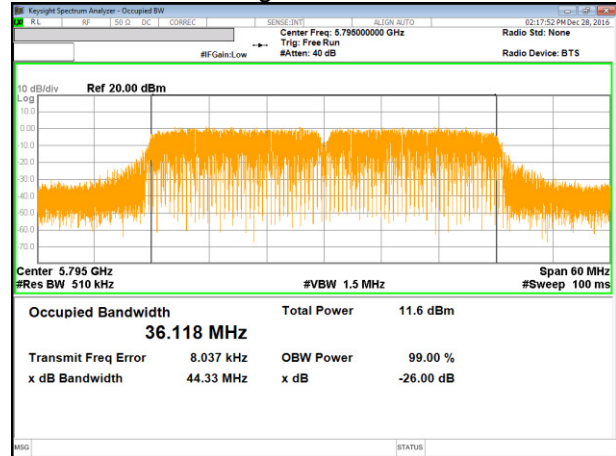


UNII 5.8 GHz IEEE 802.11n HT40 mode

11n HT40 Mode Low Channel

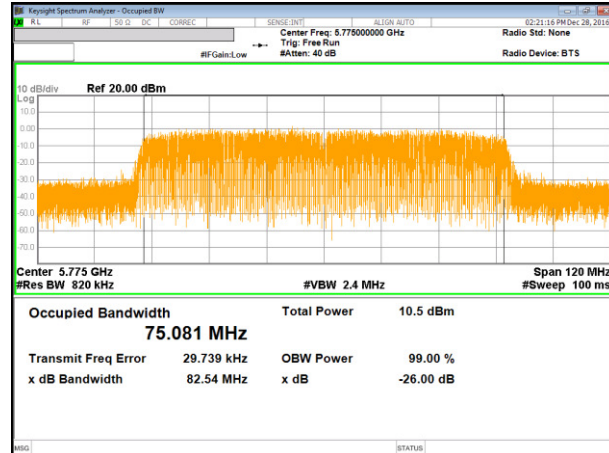


11n HT40 Mode High Channel



UNII 5.8 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel



10.4. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1) (2) (3)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

5 GHz

Frequency Band	Antenna Gain
[MHz]	[dBi]
5150 - 5250	2.87
5250 - 5350	2.83
5470 - 5725	2.72
5725 - 5850	1.69

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	21.19	16.55	2.87	2.87
Mid	5200	21.43	16.57	2.87	2.87
High	5240	21.75	16.57	2.87	2.87

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	24.00	11.00	11.00
Mid	5200	24.00	24.00	11.00	11.00
High	5240	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	12.70	13.00	24.00	-11.00
Mid	5200	12.94	13.24	24.00	-10.76
High	5240	13.16	13.46	24.00	-10.54

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	2.31	2.61	11.00	-8.39
Mid	5200	2.33	2.62	11.00	-8.38
High	5240	2.79	3.08	11.00	-7.92

10.4.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5180	21.97	17.73	2.87	2.87
Mid	5200	21.65	17.76	2.87	2.87
High	5240	22.02	17.77	2.87	2.87

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5180	24.00	24.00	11.00	11.00
Mid	5200	24.00	24.00	11.00	11.00
High	5240	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	11.88	12.20	24.00	-11.80
Mid	5200	11.97	12.29	24.00	-11.71
High	5240	12.15	12.46	24.00	-11.54

PPSP Results

Channel	Frequency [MHz]	Meas PPSP [dBm]	Total PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5180	1.23	1.55	11.00	-9.45
Mid	5200	1.31	1.62	11.00	-9.38
High	5240	0.94	1.26	11.00	-9.74

10.4.3. 802.11ac VHT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5180	21.88	17.74	2.87	2.87
Mid	5200	21.67	17.78	2.87	2.87
High	5240	21.81	17.73	2.87	2.87

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	24.00	24.00	11.00	11.00
Mid	5200	24.00	24.00	11.00	11.00
High	5240	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	12.49	12.81	24.00	-11.19
Mid	5200	12.90	13.22	24.00	-10.78
High	5240	13.14	13.46	24.00	-10.54

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	2.03	2.35	11.00	-8.65
Mid	5200	2.00	2.32	11.00	-8.68
High	5240	2.46	2.78	11.00	-8.22

10.4.4. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5190	42.42	36.11	2.87	2.87
High	5230	43.31	36.11	2.87	2.87

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5190	24.00	24.00	11.00	11.00
High	5230	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.63	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5190	11.71	12.35	24.00	-11.65
High	5230	11.17	11.80	24.00	-12.20

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5190	-1.90	-1.27	11.00	-12.27
High	5230	-2.19	-1.56	11.00	-12.56

10.4.5. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Middle	5210	83.53	74.91	2.87	2.87

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	PPSP Limit [dBm]
Middle	5210	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	1.48	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5210	10.646	12.12	24.00	-11.88

PPSP Results

Channel	Frequency [MHz]	Meas PPSP [dBm]	Total PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Middle	5210	-5.49	-4.01	11.00	-15.01

10.4.6. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.64	16.57	2.83	2.83
Mid	5300	21.31	16.56	2.83	2.83
High	5320	21.69	16.57	2.83	2.83

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	24.00	11.00	11.00
Mid	5300	24.00	24.00	11.00	11.00
High	5320	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	13.18	13.47	24.00	-10.53
Mid	5300	13.05	13.35	24.00	-10.65
High	5320	13.14	13.44	24.00	-10.56

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	2.42	2.72	11.00	-8.28
Mid	5300	2.59	2.89	11.00	-8.11
High	5320	2.52	2.81	11.00	-8.19

10.4.7. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.86	17.74	2.83	2.83
Mid	5300	21.69	17.74	2.83	2.83
High	5320	22.15	17.77	2.83	2.83

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	24.00	11.00	11.00
Mid	5300	24.00	24.00	11.00	11.00
High	5320	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	12.11	12.42	24.00	-11.58
Mid	5300	12.07	12.38	24.00	-11.62
High	5320	12.13	12.45	24.00	-11.55

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	1.45	1.77	11.00	-9.23
Mid	5300	1.30	1.62	11.00	-9.38
High	5320	1.21	1.53	11.00	-9.47

10.4.8. 802.11ac VHT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	21.74	17.76	2.83	2.83
Mid	5300	21.99	17.74	2.83	2.83
High	5320	21.77	17.74	2.83	2.83

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	24.00	24.00	11.00	11.00
Mid	5300	24.00	24.00	11.00	11.00
High	5320	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	12.34	12.66	24.00	-11.34
Mid	5300	13.04	13.36	24.00	-10.64
High	5320	12.28	12.60	24.00	-11.40

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	1.59	1.91	11.00	-9.09
Mid	5300	2.25	2.57	11.00	-8.43
High	5320	1.58	1.90	11.00	-9.10

10.4.9. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5270	42.17	36.09	2.83	2.83
High	5310	43.03	36.02	2.83	2.83

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5270	24.00	24.00	11.00	11.00
High	5310	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.63	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5270	11.42	12.05	24.00	-11.95
High	5310	11.35	11.99	24.00	-12.01

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5270	-2.19	-1.56	11.00	-12.56
High	5310	-2.19	-1.56	11.00	-12.56

10.4.10. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5290	83.99	75.03	2.83	2.83

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Middle	5290	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	1.48	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5290	10.82	12.29	24.00	-11.71

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5290	-5.90	-4.43	11.00	-15.43

10.4.11. 802.11a MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	21.20	16.58	2.72	2.72
Mid	5580	21.45	16.56	2.72	2.72
High	5700	21.47	16.57	2.72	2.72

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	24.00	11.00	11.00
Mid	5580	24.00	24.00	11.00	11.00
High	5700	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	13.18	13.48	24.00	-10.52
Mid	5580	12.83	13.13	24.00	-10.87
High	5700	13.15	13.45	24.00	-10.55

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	2.91	3.21	11.00	-7.79
Mid	5580	2.27	2.57	11.00	-8.43
High	5700	2.29	2.58	11.00	-8.42

10.4.12. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	21.71	17.77	2.72	2.72
Mid	5580	22.01	17.76	2.72	2.72
High	5700	21.73	17.73	2.72	2.72

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	24.00	11.00	11.00
Mid	5580	24.00	24.00	11.00	11.00
High	5700	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	12.13	12.44	24.00	-11.56
Mid	5580	11.54	11.85	24.00	-12.15
High	5700	12.17	12.49	24.00	-11.51

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	1.22	1.54	11.00	-9.46
Mid	5580	0.69	1.00	11.00	-10.00
High	5700	1.32	1.64	11.00	-9.36

10.4.13. 802.11ac VHT20 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5500	22.17	17.77	2.72	2.72
Mid	5580	21.59	17.77	2.72	2.72
High	5700	21.69	17.74	2.72	2.72

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	24.00	24.00	11.00	11.00
Mid	5580	24.00	24.00	11.00	11.00
High	5700	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	12.23	12.55	24.00	-11.45
Mid	5580	12.73	13.05	24.00	-10.96
High	5700	12.24	12.56	24.00	-11.44

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	1.49	1.81	11.00	-9.19
Mid	5580	1.90	2.22	11.00	-8.78
High	5700	1.40	1.72	11.00	-9.28

10.4.14. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5510	43.58	36.12	2.72	2.72
Mid	5590	43.45	36.08	2.72	2.72
High	5670	42.77	36.06	2.72	2.72

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5510	24.00	24.00	11.00	11.00
Mid	5590	24.00	24.00	11.00	11.00
High	5670	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	0.63	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5510	11.60	12.23	24.00	-11.77
Mid	5590	11.47	12.11	24.00	-11.89
High	5670	11.83	12.46	24.00	-11.54

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5510	-1.84	-1.20	11.00	-12.20
Mid	5590	-2.12	-1.49	11.00	-12.49
High	5670	-1.90	-1.26	11.00	-12.26

10.4.15. 802.11ac VHT80 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSP [dBi]
Low	5530	84.67	75.06	2.72	2.72
High	5610	83.99	75.07	2.72	2.72

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSP Limit [dBm]	PPSP Limit [dBm]
Low	5530	24.00	24.00	11.00	11.00
High	5610	24.00	24.00	11.00	11.00

Duty Cycle CF [dB]	1.48	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5530	10.50	11.97	24.00	-12.03
High	5610	10.19	11.67	24.00	-12.33

PPSP Results

Channel	Frequency [MHz]	Meas PPSP [dBm]	Total PPSP [dBm]	PPSP Limit [dBm]	PPSP Margin [dB]
Low	5530	-5.93	-4.45	11.00	-15.45
High	5610	-5.85	-4.37	11.00	-15.37

10.4.16. 802.11a MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	21.29	16.58	1.69	1.69
Mid	5785	21.17	16.57	1.69	1.69
High	5825	21.74	16.58	1.69	1.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	30.00	30.00	30.00	30.00
Mid	5785	30.00	30.00	30.00	30.00
High	5825	30.00	30.00	30.00	30.00

Duty Cycle CF [dB]	0.30	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	12.50	12.80	30.00	-17.20
Mid	5785	12.62	12.92	30.00	-17.08
High	5825	12.49	12.79	30.00	-17.21

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	-1.10	-0.81	30.00	-30.81
Mid	5785	-0.97	-0.67	30.00	-30.67
High	5825	-1.10	-0.80	30.00	-30.80

10.4.17. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	22.00	17.76	1.69	1.69
Mid	5785	21.79	17.75	1.69	1.69
High	5825	21.95	17.77	1.69	1.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	30.00	30.00	30.00	30.00
Mid	5785	30.00	30.00	30.00	30.00
High	5825	30.00	30.00	30.00	30.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	11.13	11.45	30.00	-18.55
Mid	5785	11.36	11.68	30.00	-18.32
High	5825	11.36	11.68	30.00	-18.32

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	-2.79	-2.47	30.00	-32.47
Mid	5785	-2.46	-2.14	30.00	-32.14
High	5825	-2.55	-2.24	30.00	-32.24

10.4.18. 802.11ac VHT20 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5745	21.97	17.77	1.69	1.69
Mid	5785	21.73	17.74	1.69	1.69
High	5825	22.06	17.75	1.69	1.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	30.00	30.00	30.00	30.00
Mid	5785	30.00	30.00	30.00	30.00
High	5825	30.00	30.00	30.00	30.00

Duty Cycle CF [dB]	0.32	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	12.37	12.69	30.00	-17.31
Mid	5785	12.37	12.69	30.00	-17.31
High	5825	12.45	12.77	30.00	-17.23

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	-1.56	-1.24	30.00	-31.24
Mid	5785	-1.45	-1.13	30.00	-31.13
High	5825	-1.23	-0.91	30.00	-30.91

10.4.19. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5755	43.00	36.13	1.69	1.69
High	5795	42.71	36.12	1.69	1.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Low	5755	30.00	30.00	30.00	30.00
High	5795	30.00	30.00	30.00	30.00

Duty Cycle CF [dB]	0.63	Included in Calculations of Corr'd Power & PPSP
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5755	11.50	12.13	30.00	-17.87
High	5795	11.74	12.37	30.00	-17.63

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5755	-5.10	-4.47	30.00	-34.47
High	5795	-4.89	-4.25	30.00	-34.25

10.4.20. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Middle	5775	83.11	75.08	1.69	1.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	PPSD Limit [dBm]
Middle	5775	30.00	30.00	30.00	30.00

Duty Cycle CF [dB]	1.48	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Total Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Middle	5775	9.96	11.44	30.00	-18.56

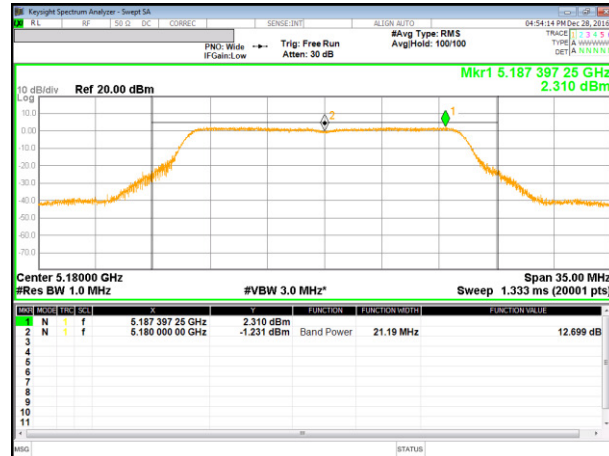
PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	Total PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Middle	5775	-9.48	-8.00	30.00	-38.00

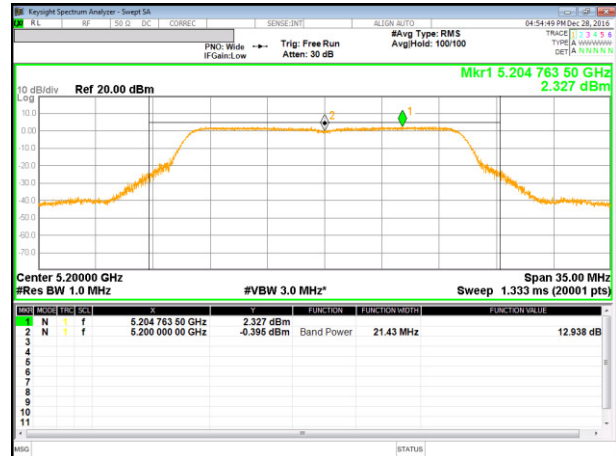
10.4.21. OUTPUT POWER AND PPSD PLOTS

UNII 5.2 GHz IEEE 802.11a mode

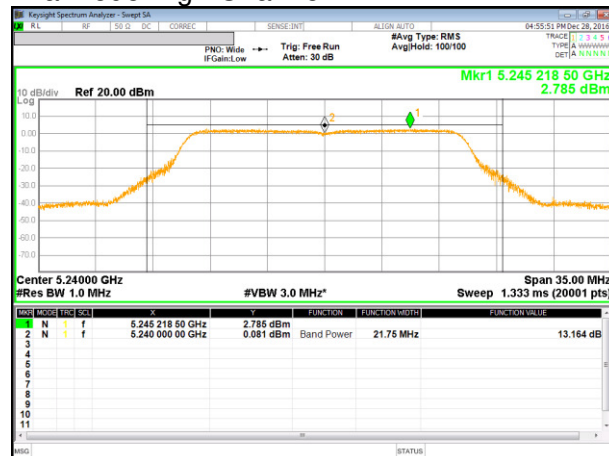
11a Mode Low Channel



11a Mode Middle Channel

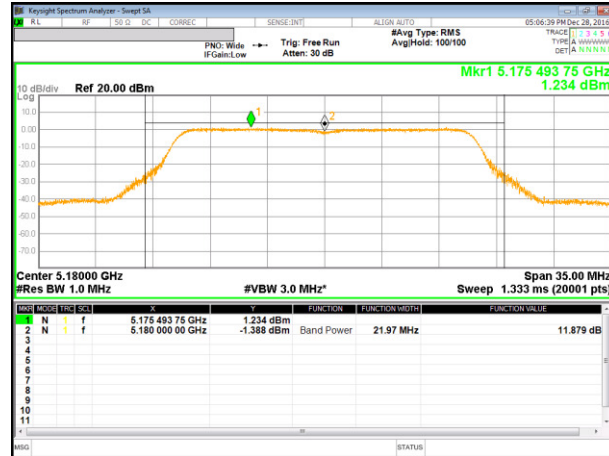


11a Mode High Channel

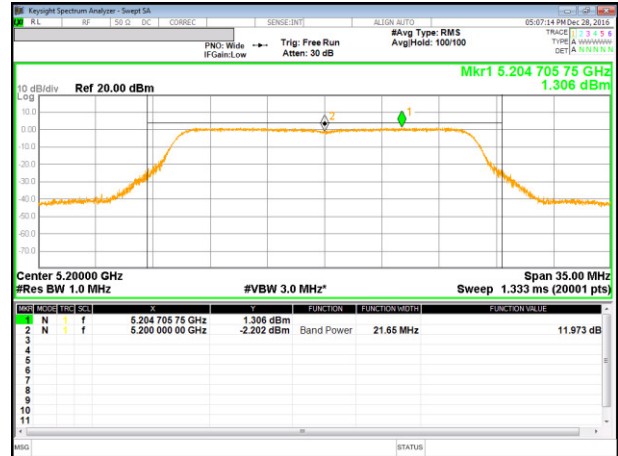


UNII 5.2 GHz IEEE 802.11n HT20 mode

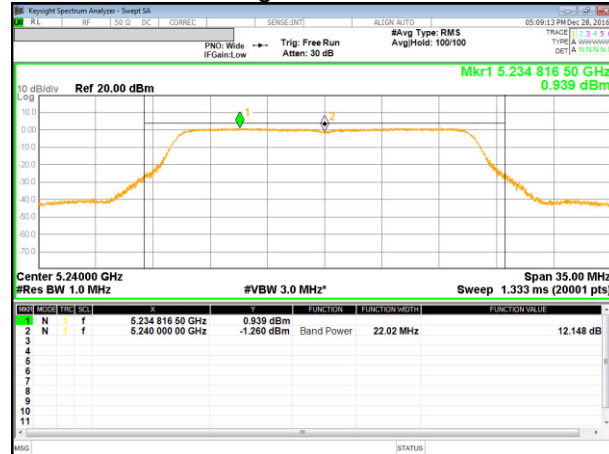
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

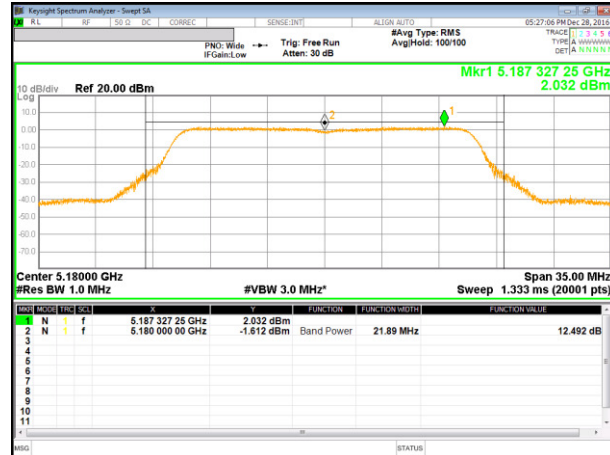


11n HT20 Mode High Channel

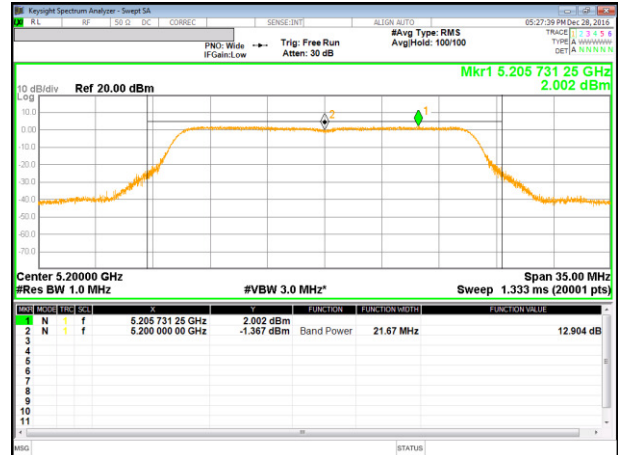


UNII 5.2 GHz IEEE 802.11ac VHT20 mode

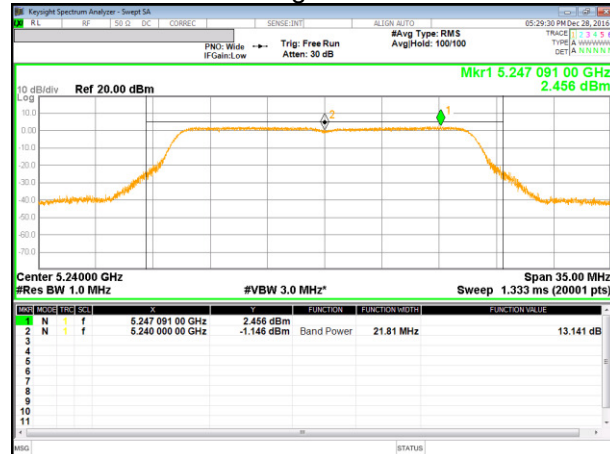
11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel

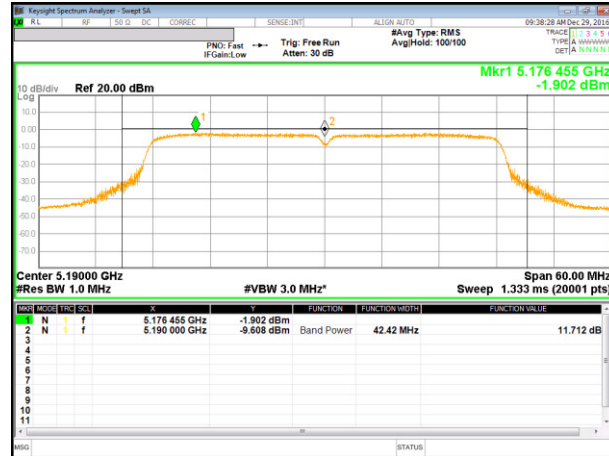


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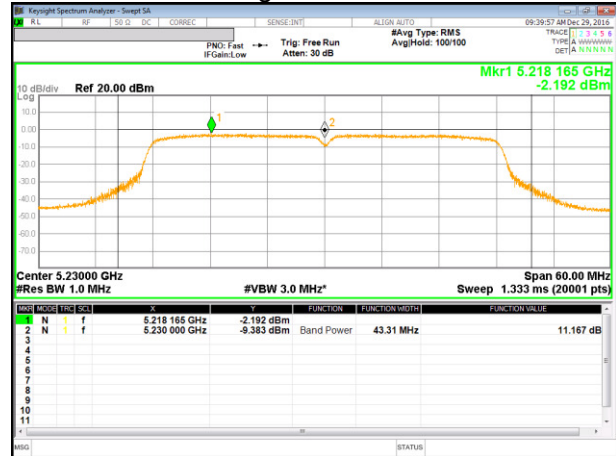


UNII 5.2 GHz IEEE 802.11n HT40 mode

11n HT40 Mode Low Channel

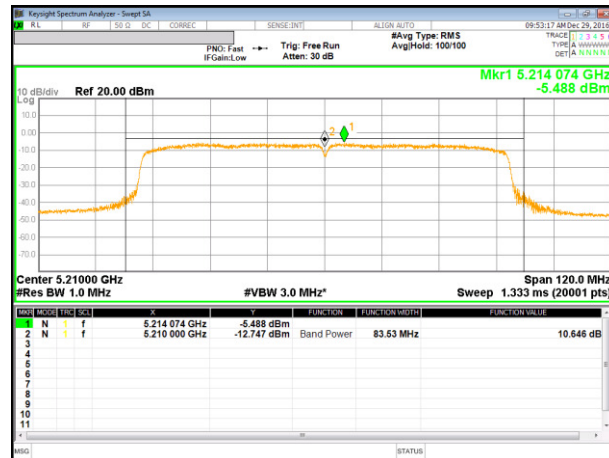


11n HT40 Mode High Channel



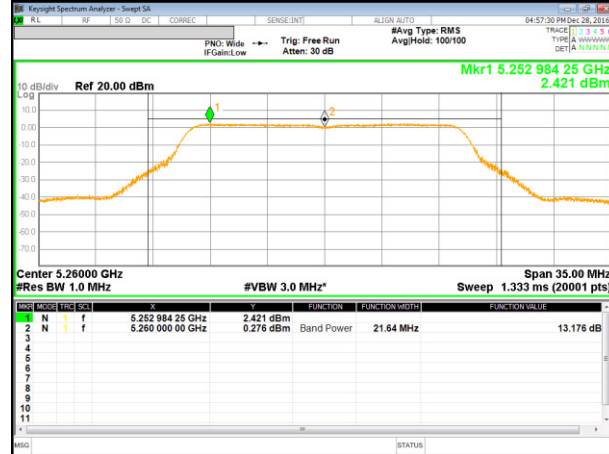
UNII 5.2 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel

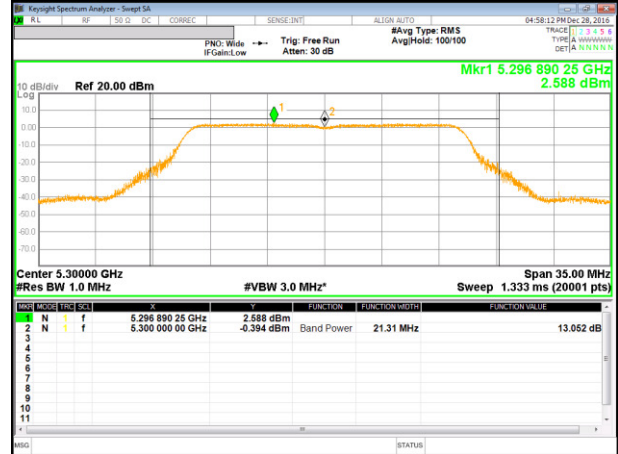


UNII 5.3 GHz IEEE 802.11a mode

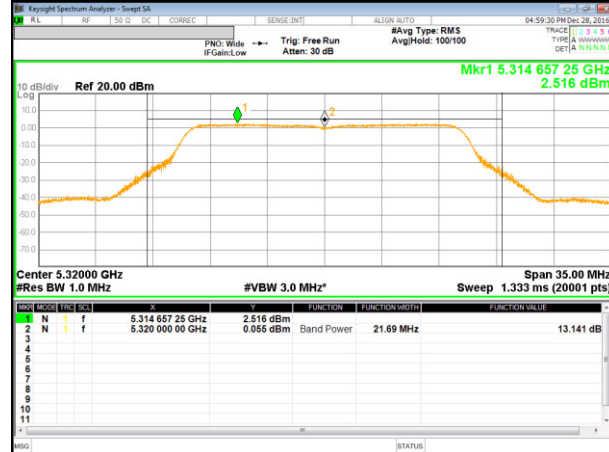
11a Mode Low Channel Primary



11a Mode Middle Channel Secondary

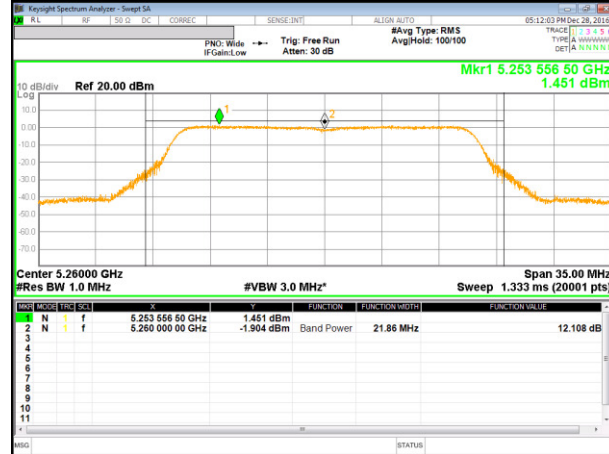


11a Mode High Channel Primary

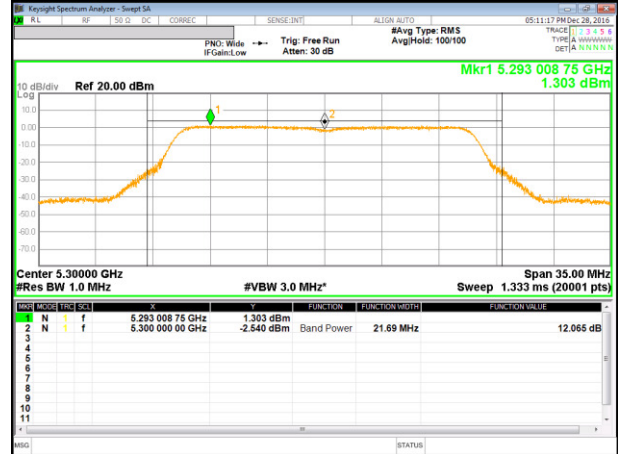


UNII 5.3 GHz IEEE 802.11n HT20 mode

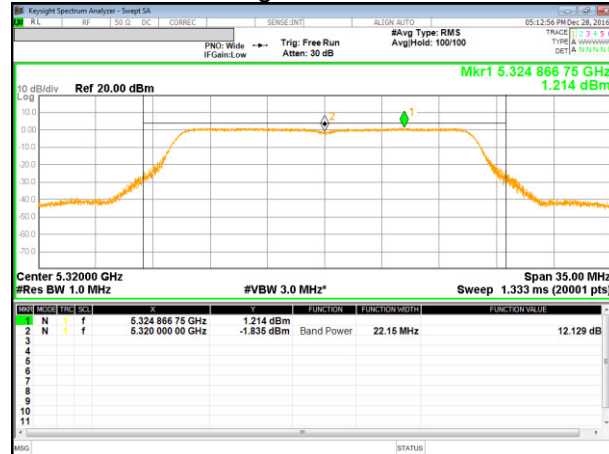
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

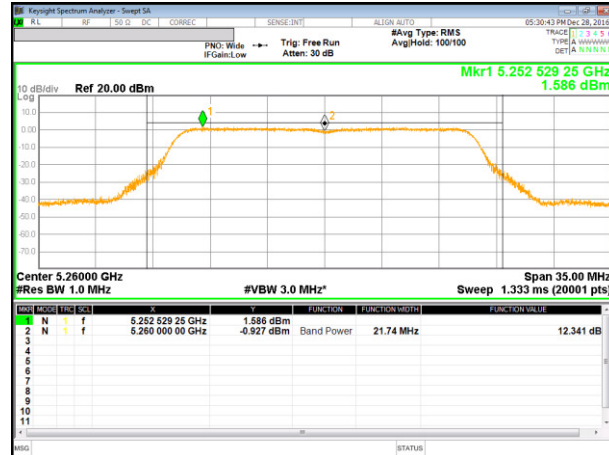


11n HT20 Mode High Channel

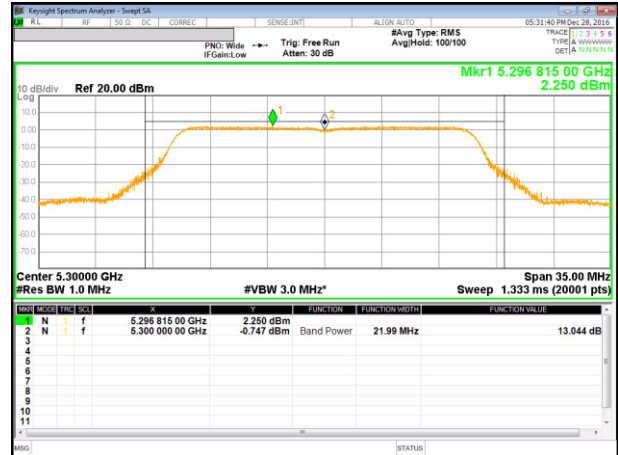


UNII 5.3 GHz IEEE 802.11ac VHT20 mode

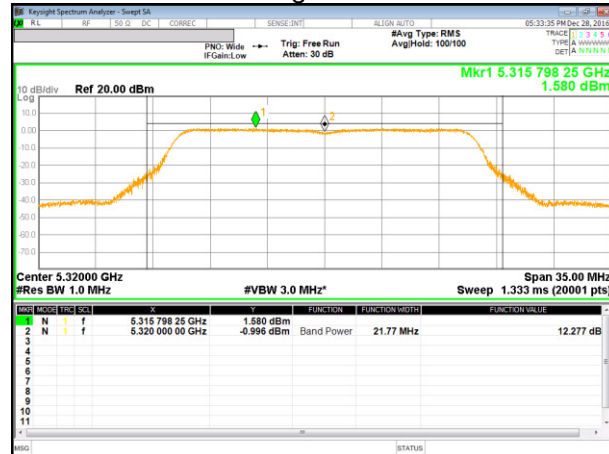
11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel

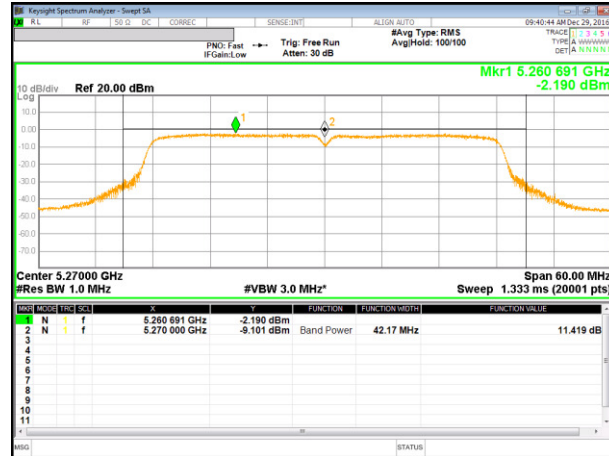


11ac VHT20 Mode High Channel

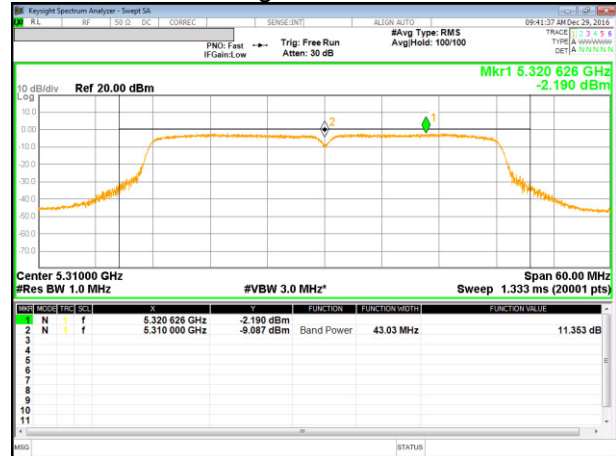


UNII 5.3 GHz IEEE 802.11n HT40 mode

11n HT40 Mode Low Channel

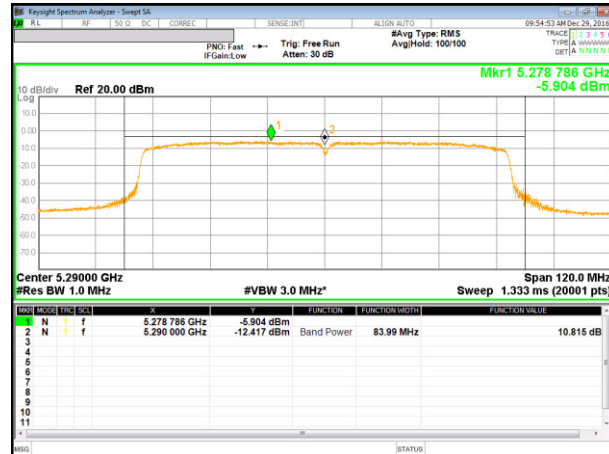


11n HT40 Mode High Channel



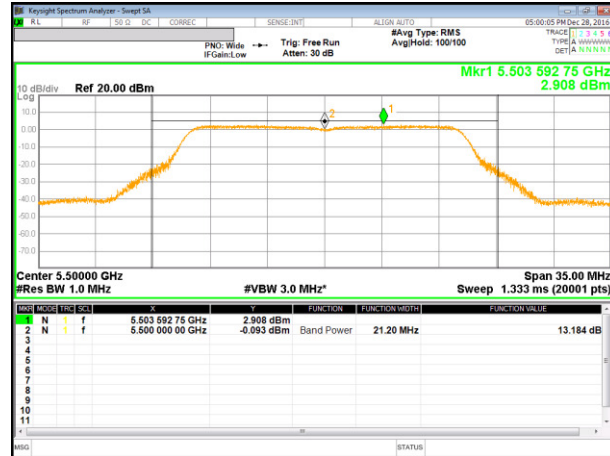
UNII 5.3 GHz IEEE 802.11ac VHT80 mode

11ac HT80 Mode Middle Channel

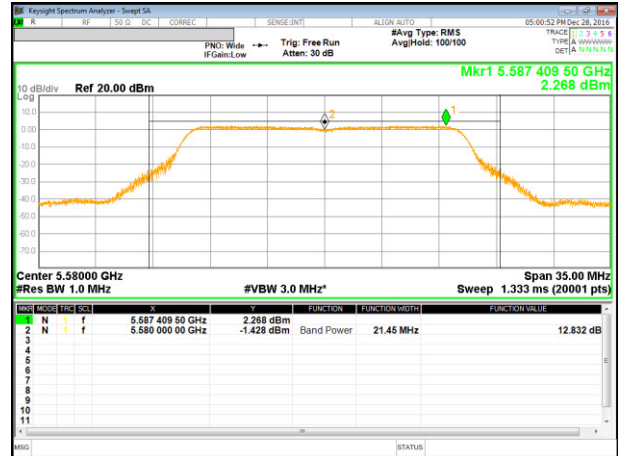


UNII 5.5 GHz IEEE 802.11a mode

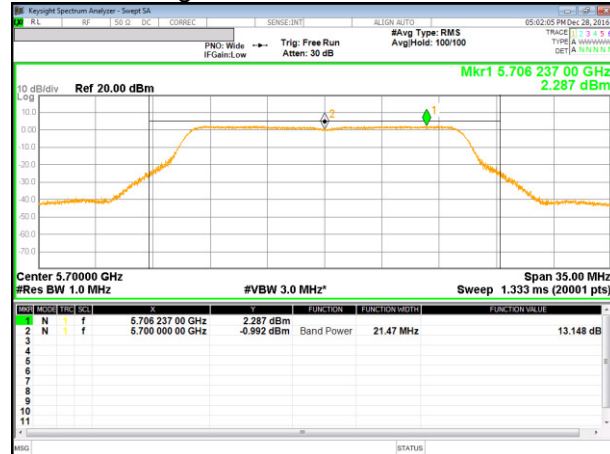
11a Mode Low Channel



11a Mode Middle Channel

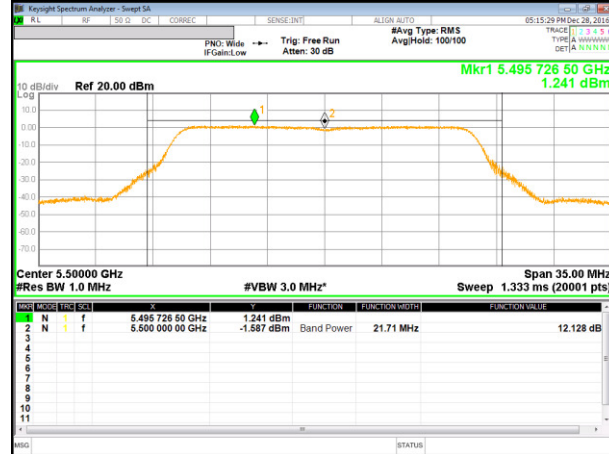


11a Mode High Channel

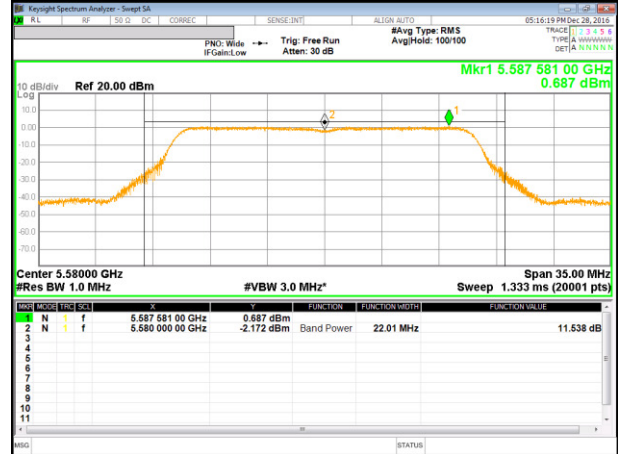


UNII 5.5 GHz IEEE 802.11n HT20 mode

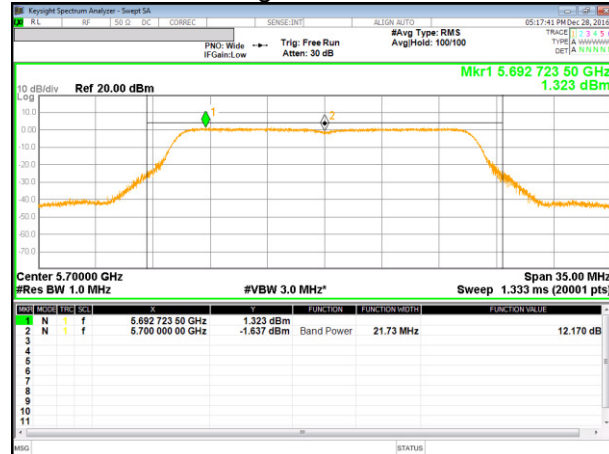
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

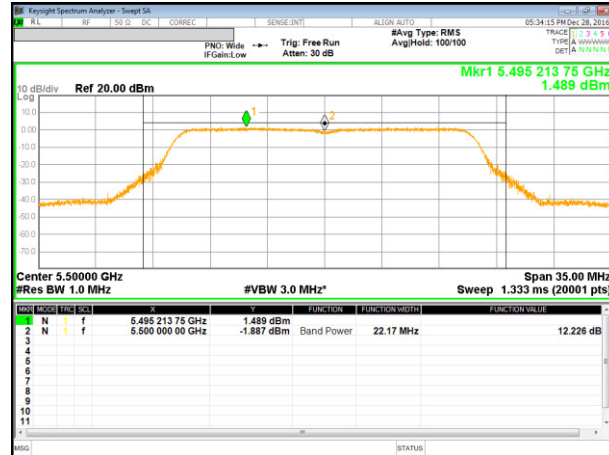


11n HT20 Mode High Channel

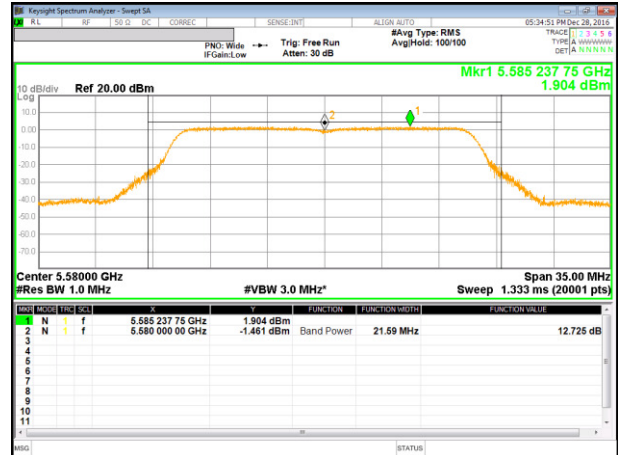


UNII 5.5 GHz IEEE 802.11ac VHT20 mode

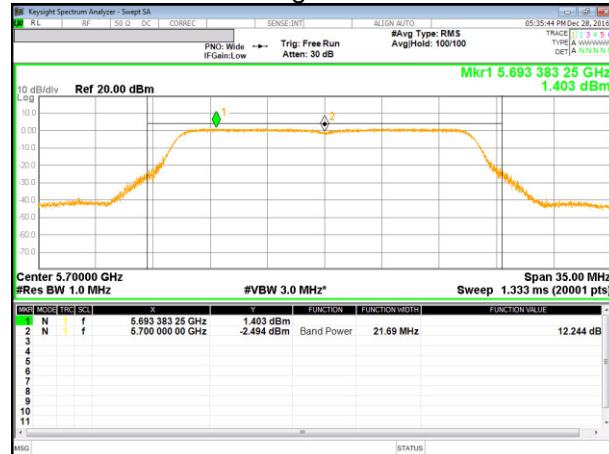
11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel

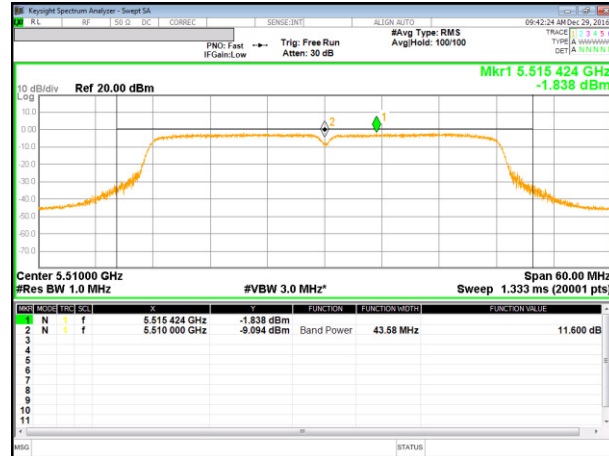


11ac VHT20 Mode High Channel

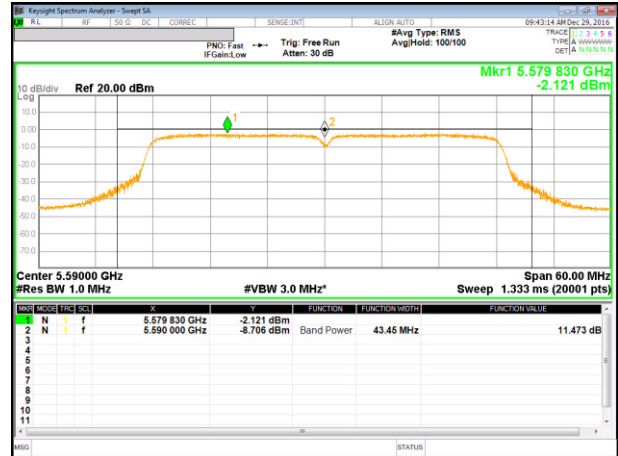


UNII 5.5 GHz IEEE 802.11n HT40 mode

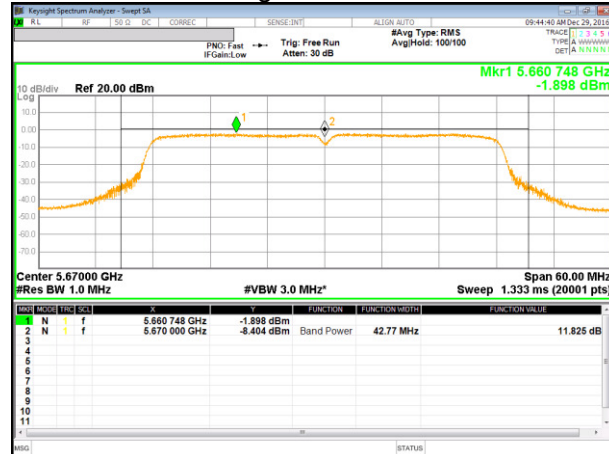
11n HT40 Mode Low Channel



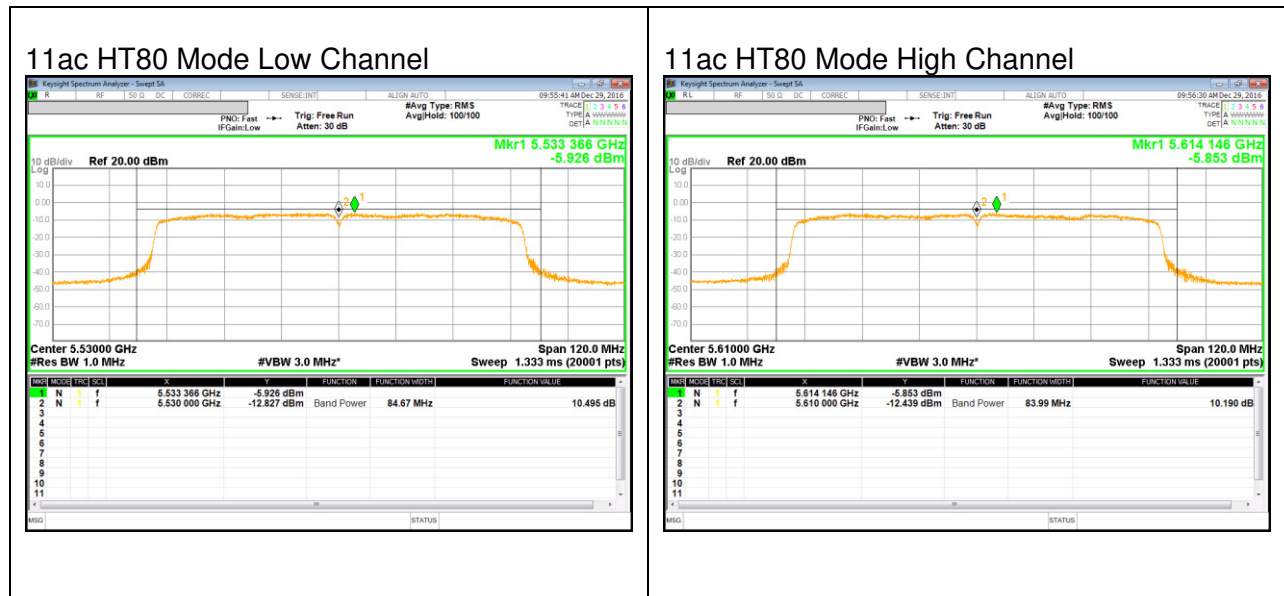
11n HT40 Mode Middle Channel



11n HT40 Mode High Channel

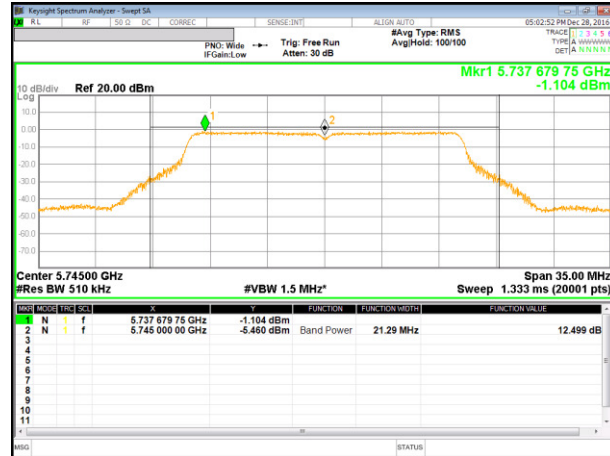


UNII 5.5 GHz IEEE 802.11ac VHT80 mode

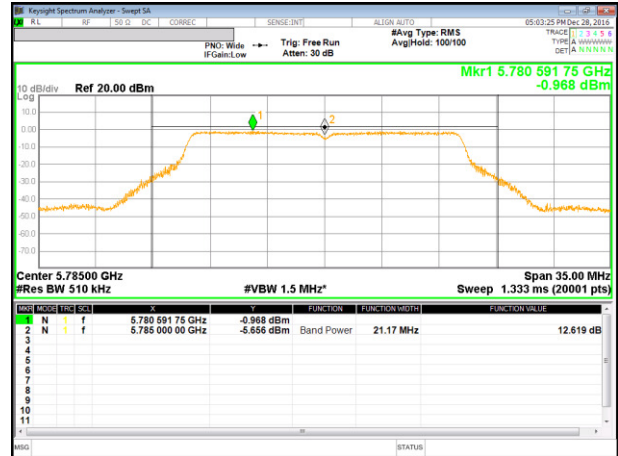


UNII 5.8 GHz IEEE 802.11a mode

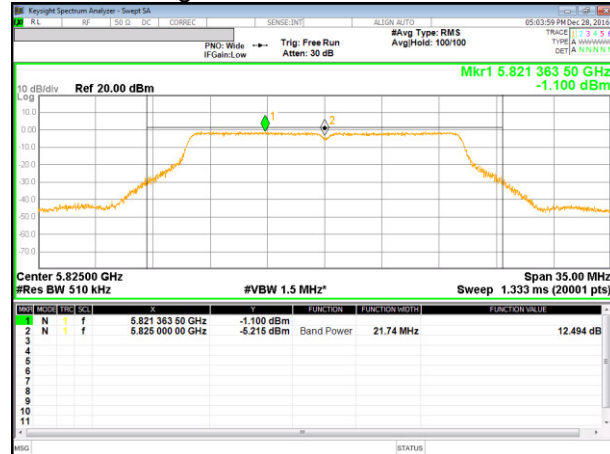
11a Mode Low Channel



11a Mode Middle Channel

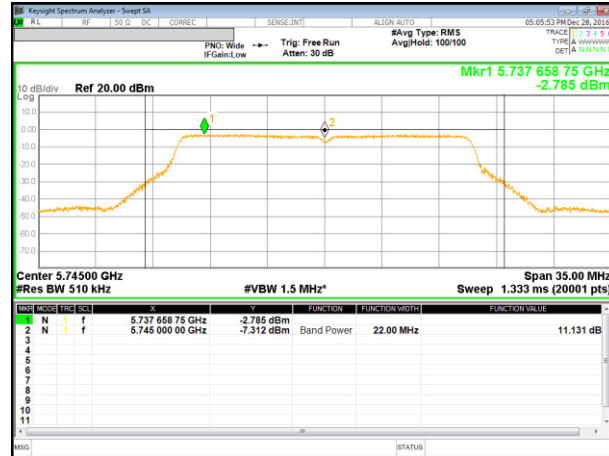


11a Mode High Channel

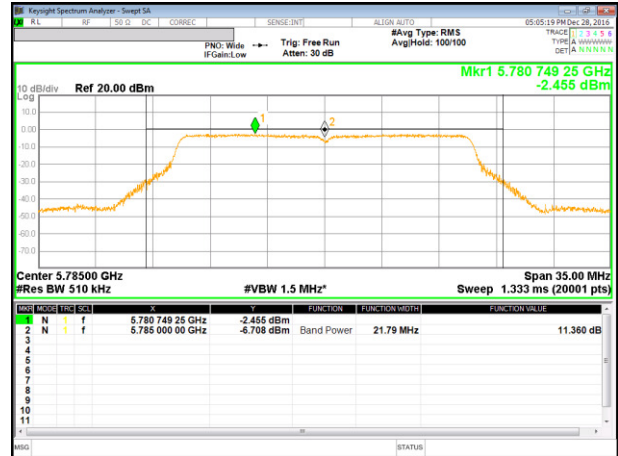


UNII 5.8 GHz IEEE 802.11n HT20 mode

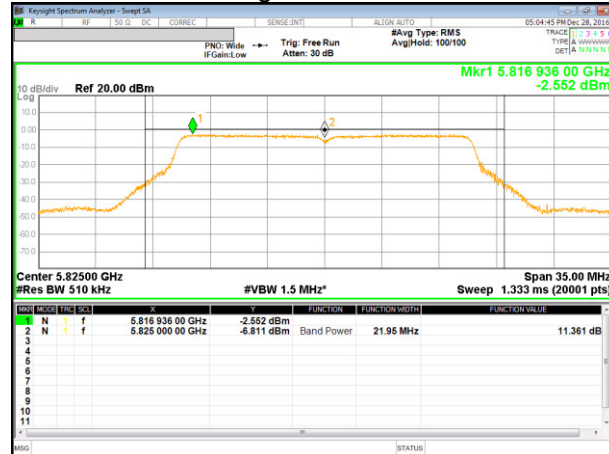
11n HT20 Mode Low Channel



11n HT20 Mode Middle Channel

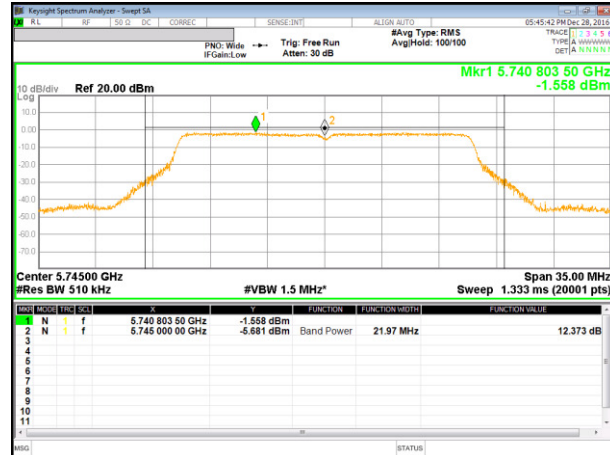


11n HT20 Mode High Channel

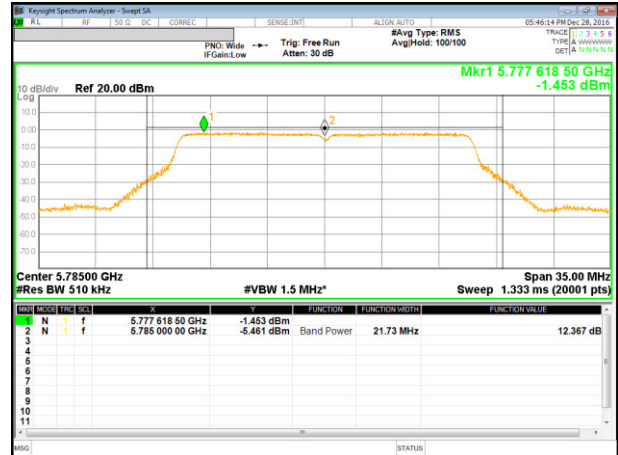


UNII 5.8 GHz IEEE 802.11ac VHT20 mode

11ac VHT20 Mode Low Channel



11ac VHT20 Mode Middle Channel



11ac VHT20 Mode High Channel

