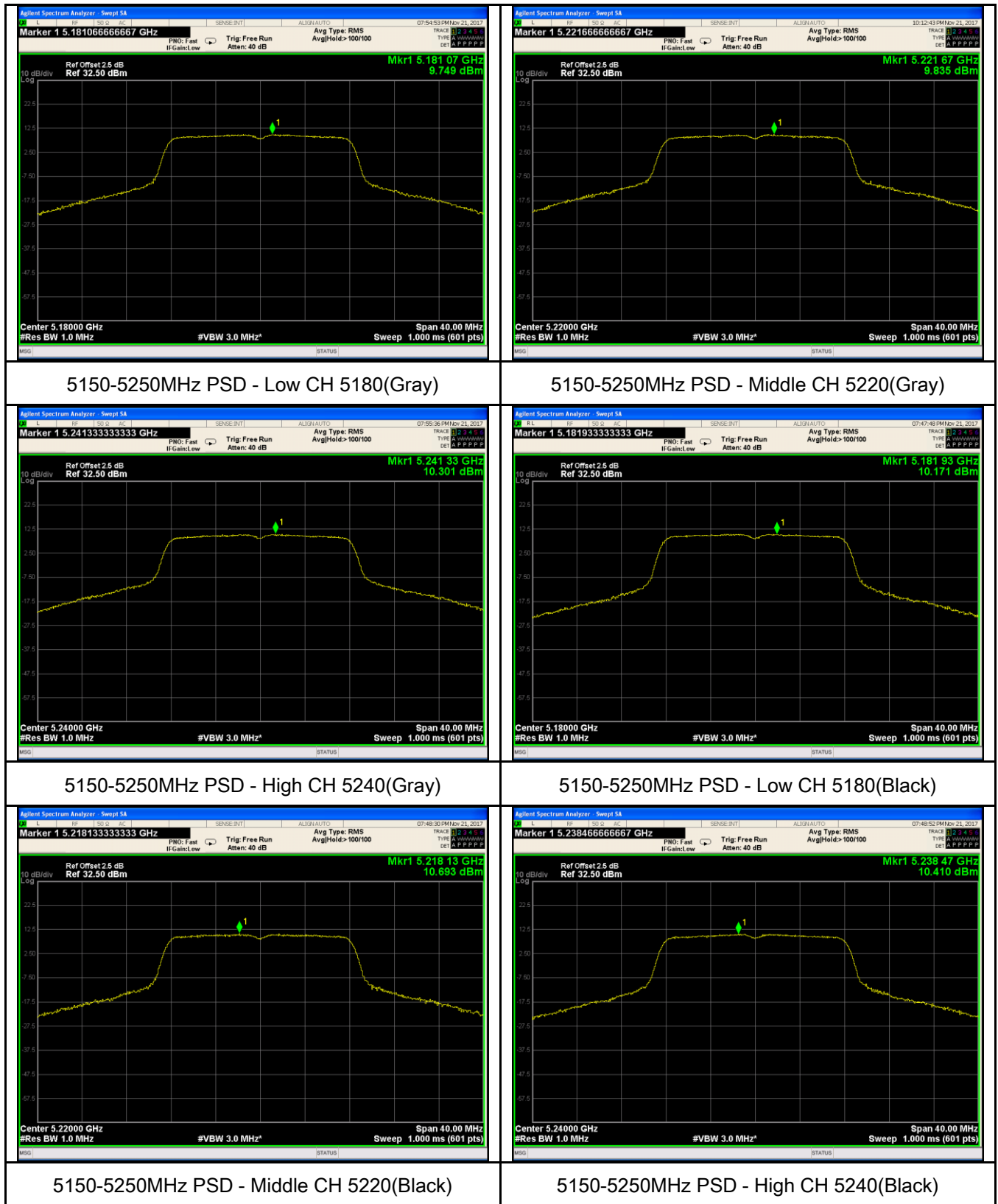
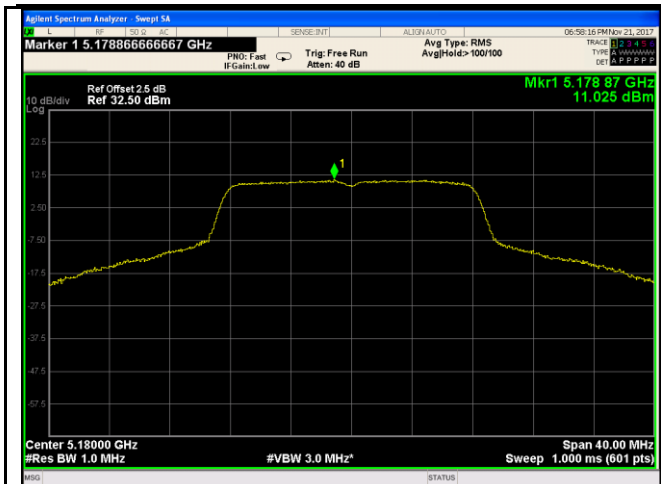


Test Plots

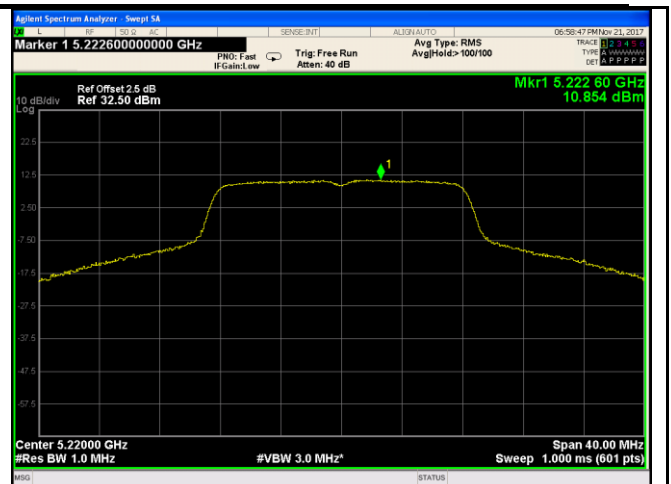
Power Spectral Density measurement result Test Plots

802.11a

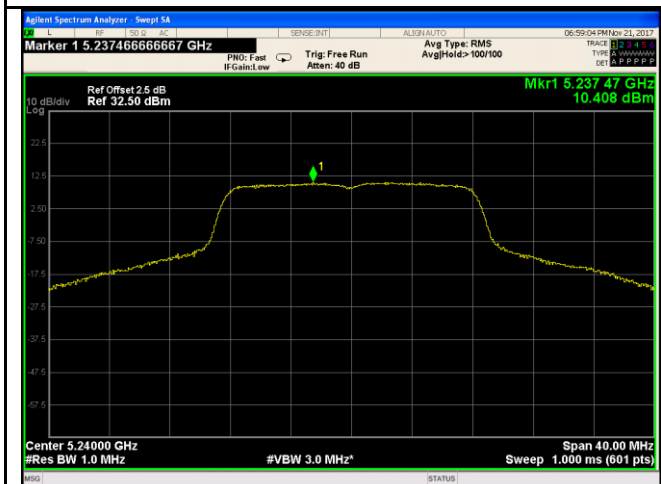




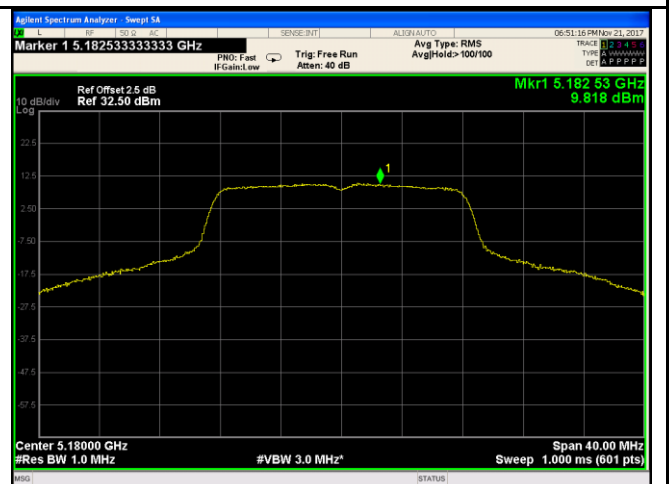
5150-5250MHz PSD - Low CH 5180(Blue)



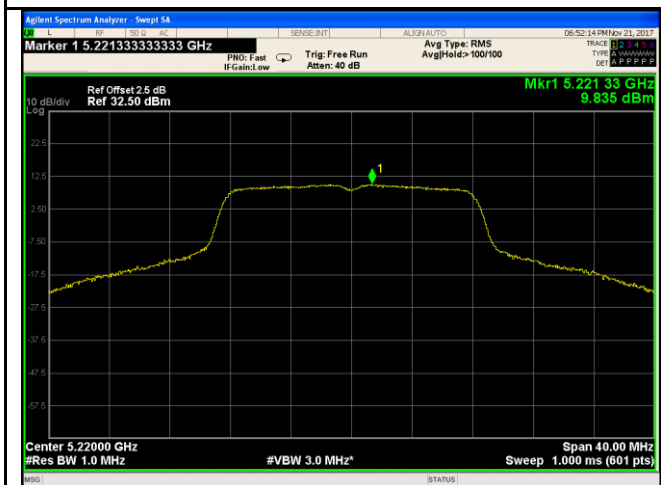
5150-5250MHz PSD - Middle CH 5220(Blue)



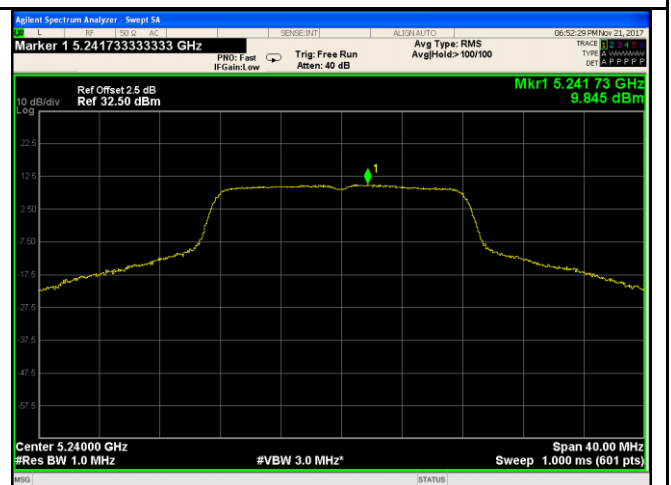
5150-5250MHz PSD - High CH 5240(Blue)



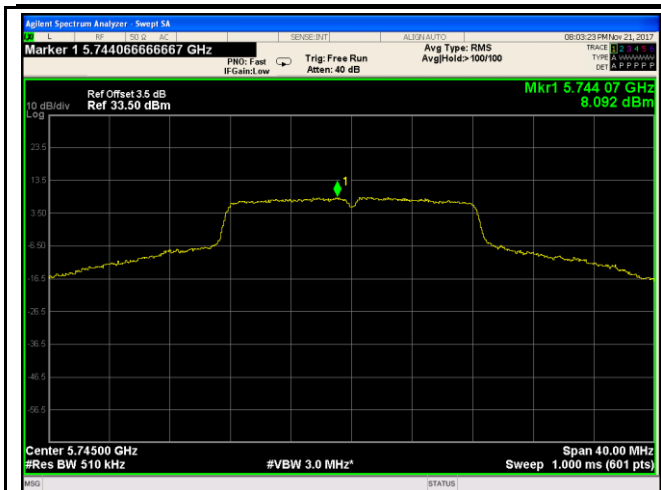
5150-5250MHz PSD - Low CH 5180(White)



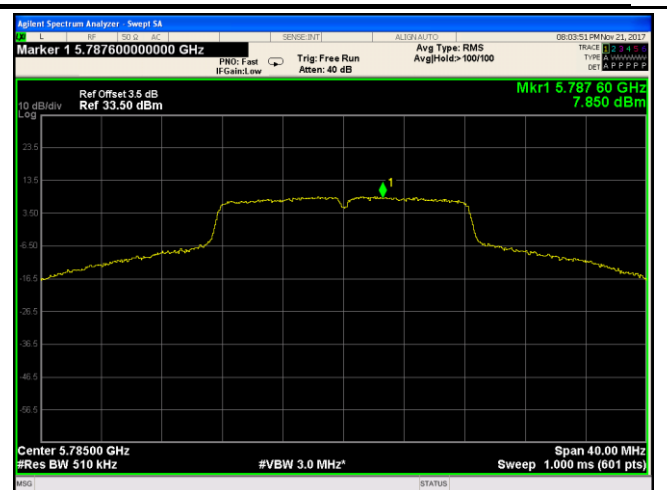
5150-5250MHz PSD - Middle CH 5220(White)



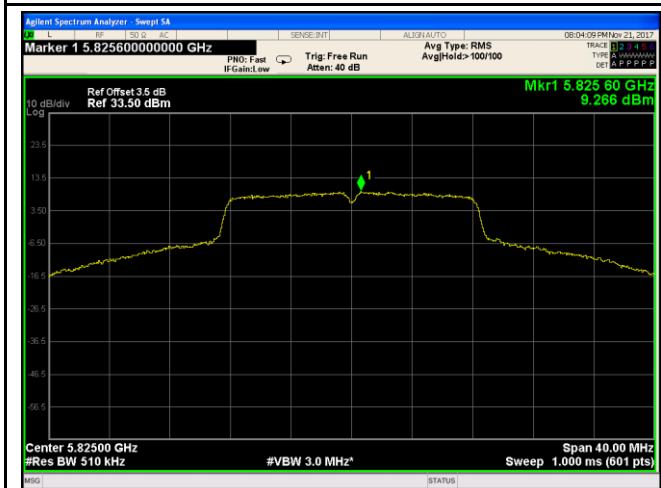
5150-5250MHz PSD - High CH 5240(White)



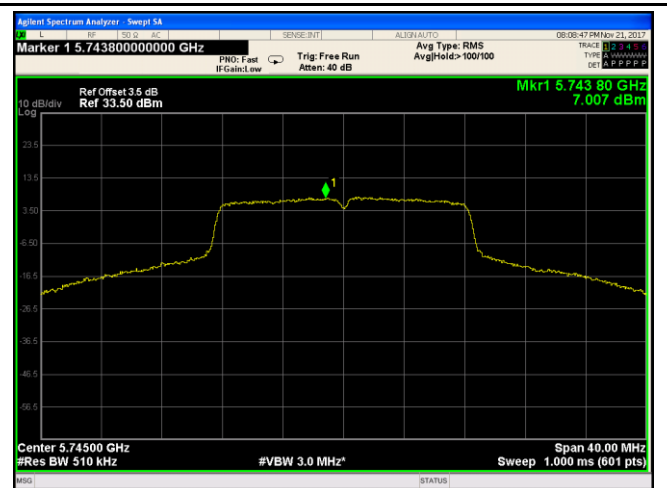
5725-5825MHz PSD - Low CH 5745(Gray)



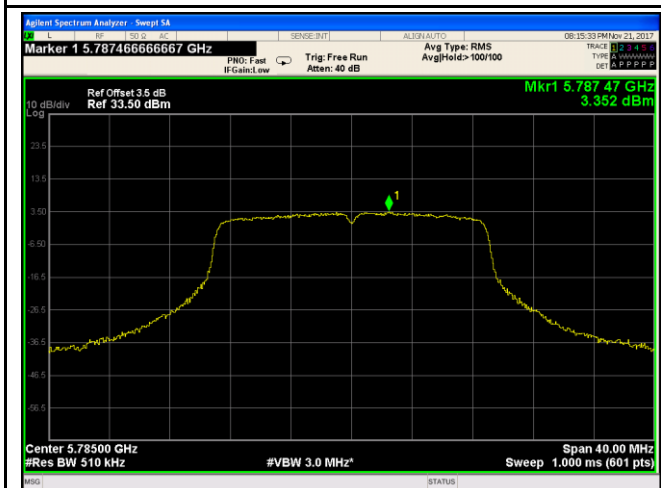
5725-5825MHz PSD - Mid CH 5785(Gray)



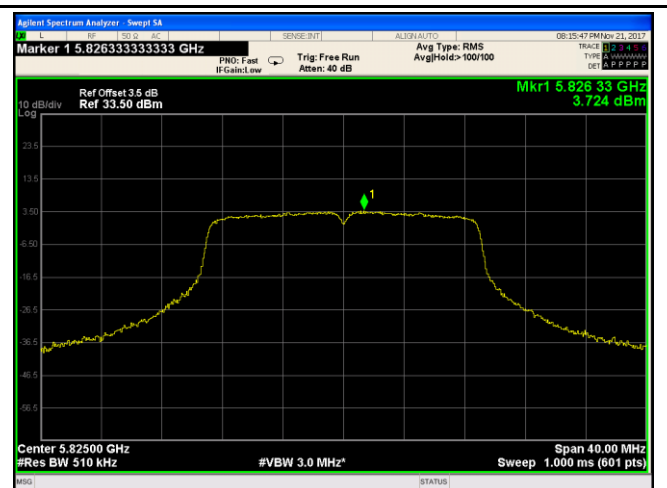
5725-5825MHz PSD - High CH 5825(Gray)



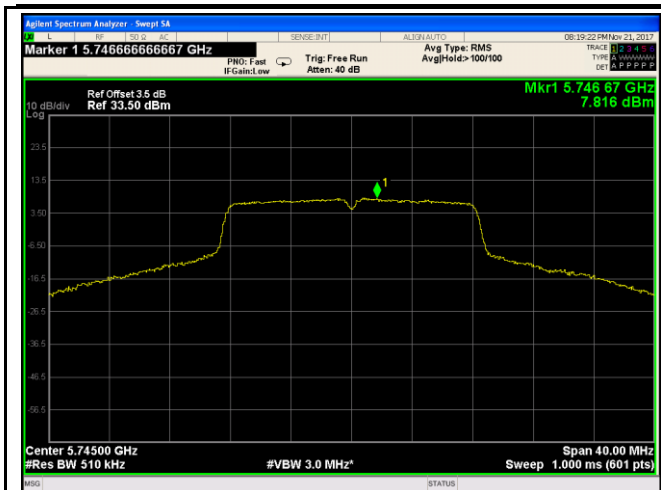
5725-5825MHz PSD - Low CH 5745(Black)



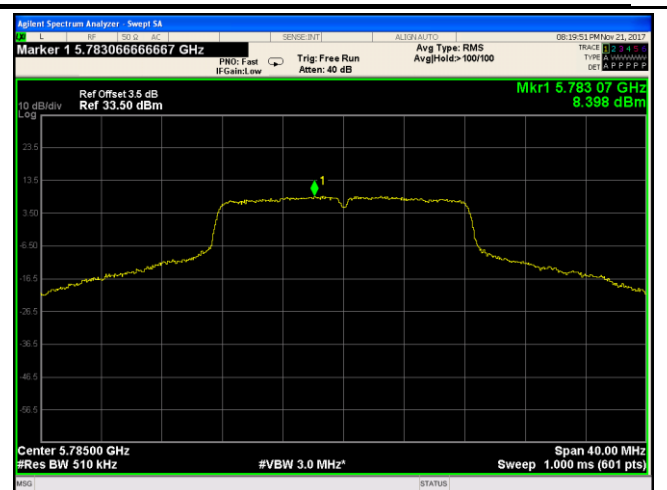
5725-5825MHz PSD - Mid CH 5785(Black)



5725-5825MHz PSD - High CH 5825(Black)



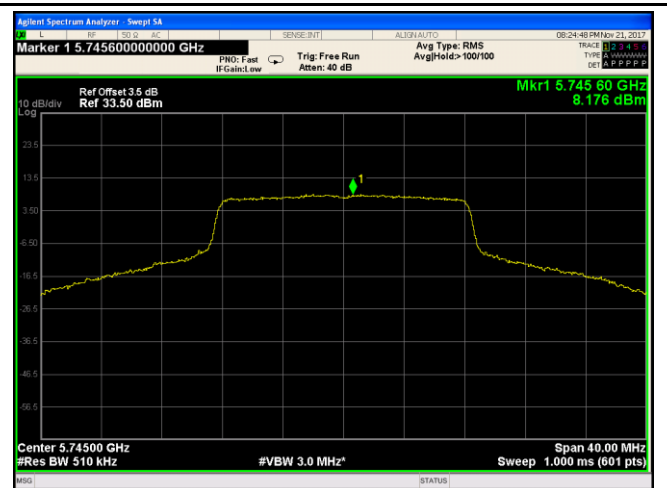
5725-5825MHz PSD - Low CH 5745(Blue)



5725-5825MHz PSD - Mid CH 5785(Blue)



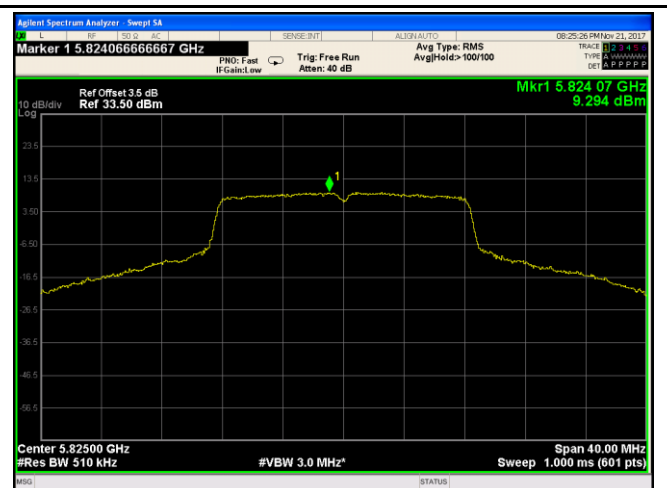
5725-5825MHz PSD - High CH 5825(Blue)



5725-5825MHz PSD - Low CH 5745(White)

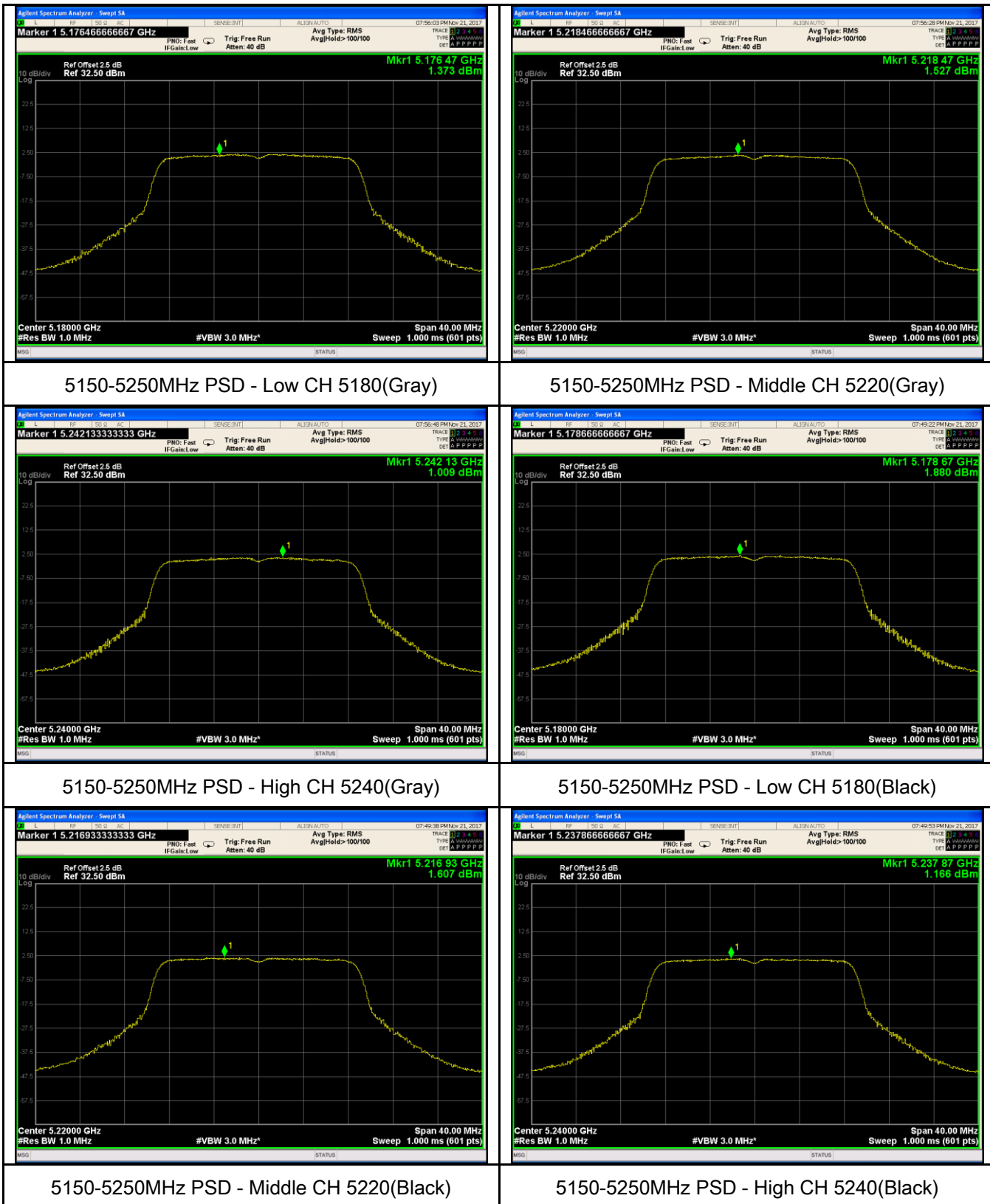


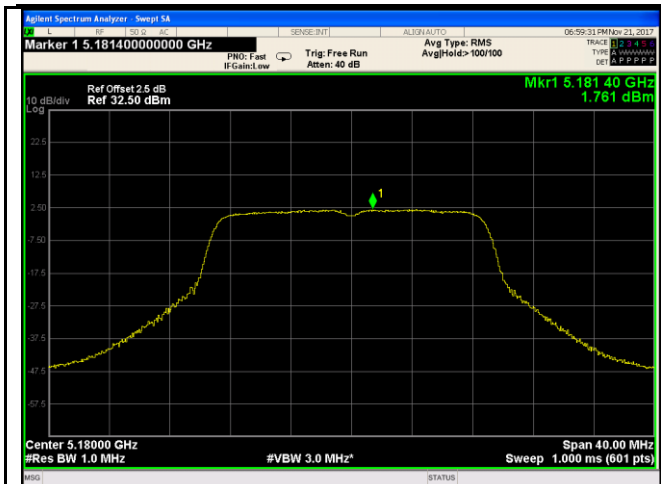
5725-5825MHz PSD - Mid CH 5785(White)



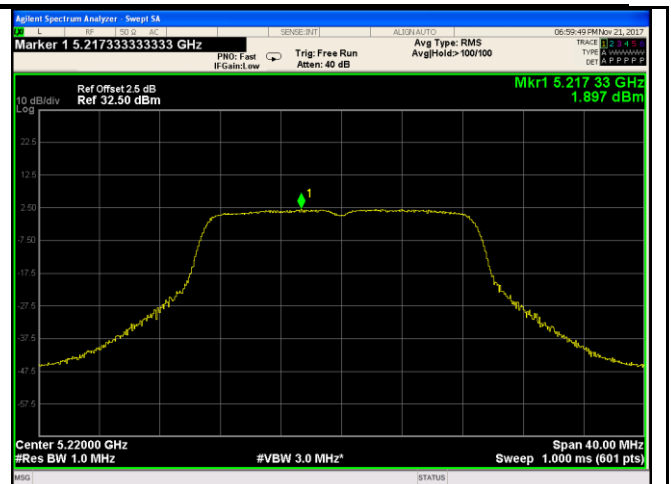
5725-5825MHz PSD - High CH 5825(White)

802.11n (20M)

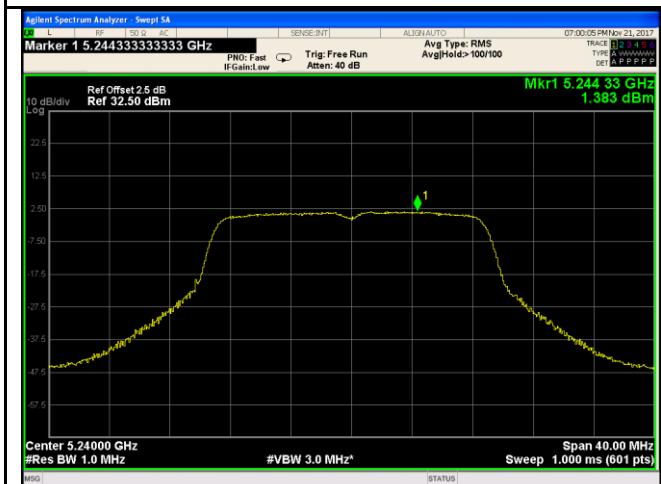




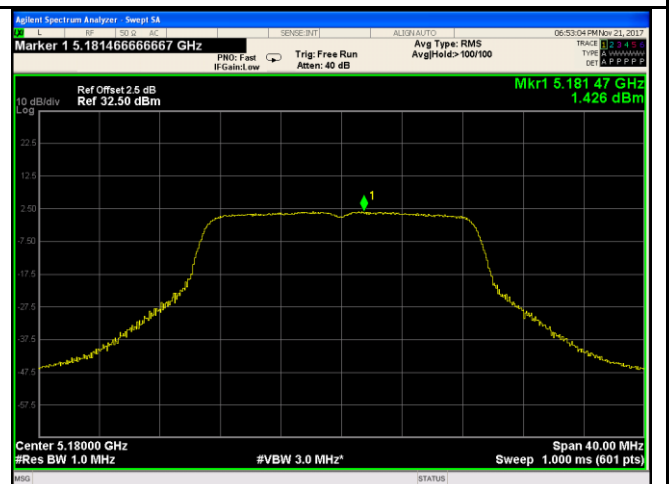
5150-5250MHz PSD - Low CH 5180(Blue)



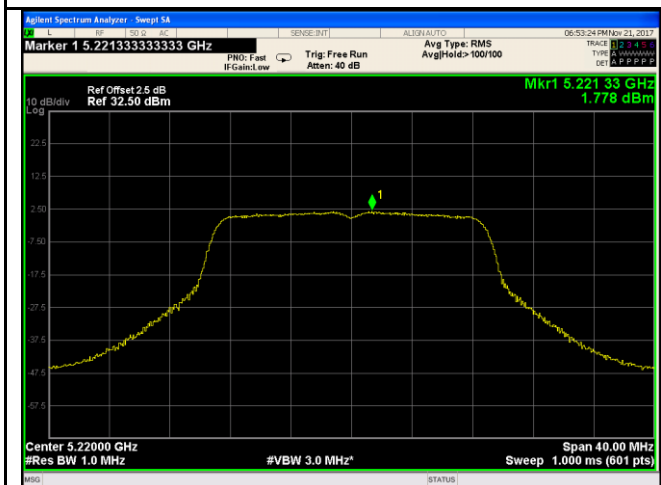
5150-5250MHz PSD - Middle CH 5220(Blue)



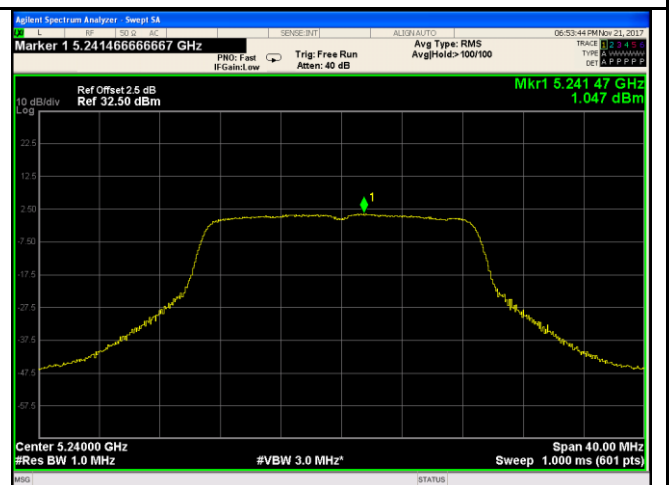
5150-5250MHz PSD - High CH 5240(Blue)



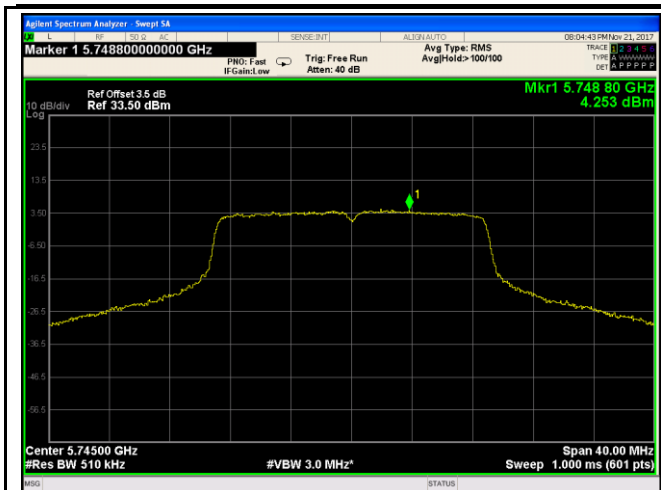
5150-5250MHz PSD - Low CH 5180(White)



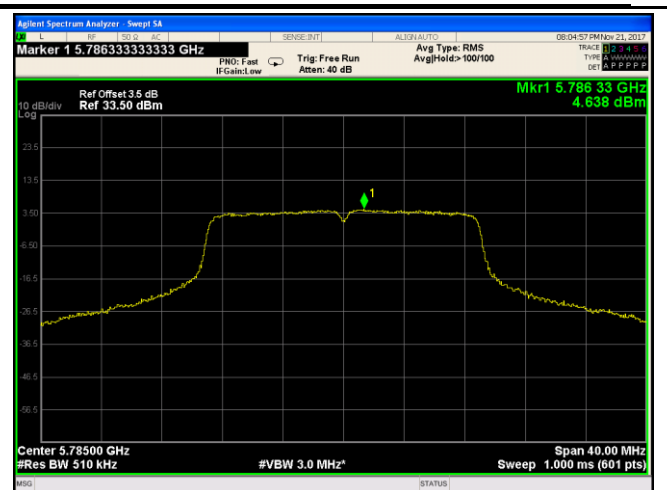
5150-5250MHz PSD - Middle CH 5220(White)



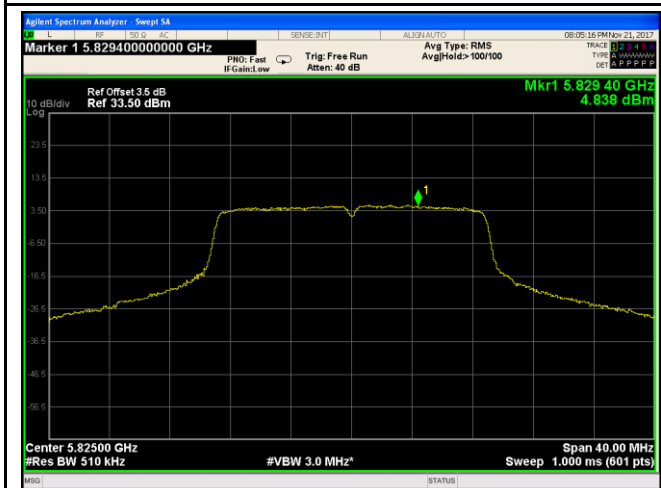
5150-5250MHz PSD - High CH 5240(White)



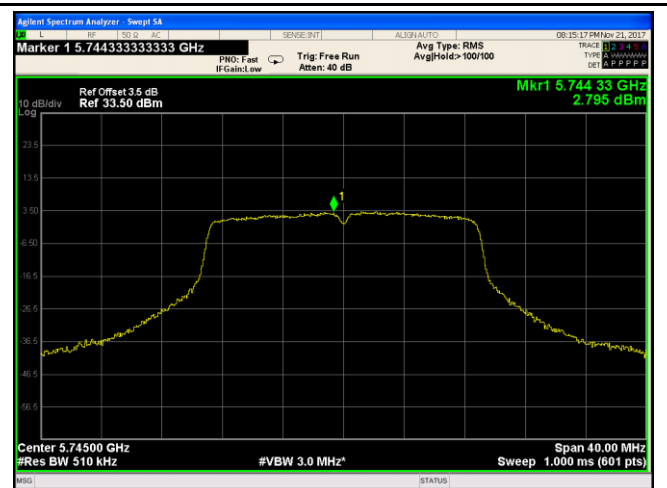
5725-5825MHz PSD - Low CH 5745(Gray)



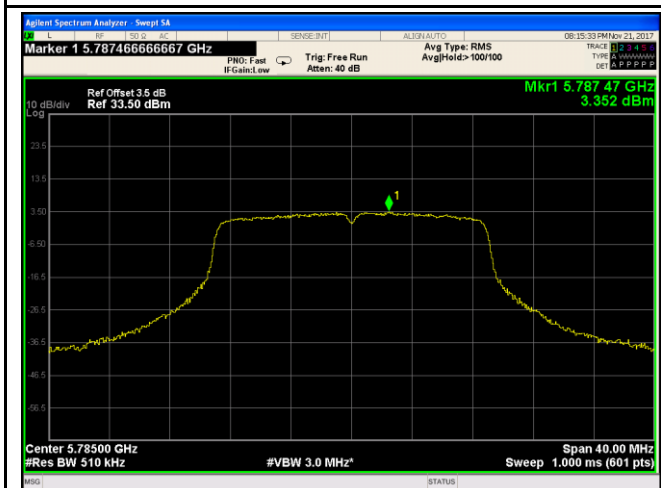
5725-5825MHz PSD - Mid CH 5785(Gray)



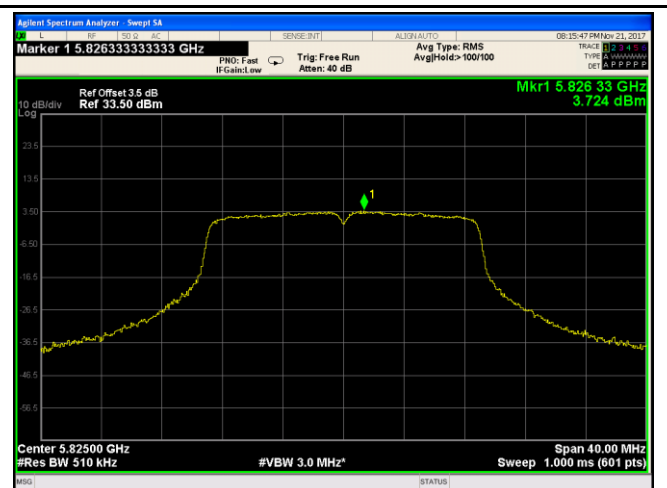
5725-5825MHz PSD - High CH 5825(Gray)



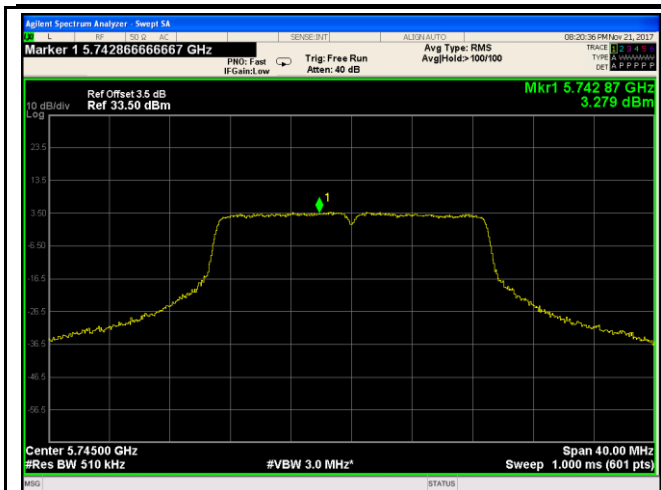
5725-5825MHz PSD - Low CH 5745(Black)



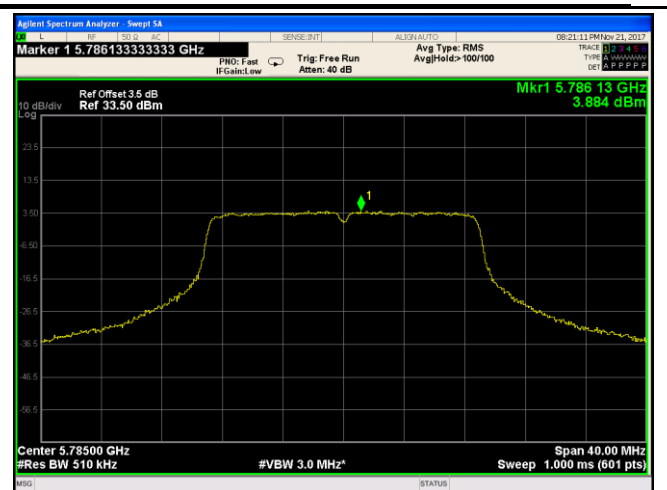
5725-5825MHz PSD - Mid CH 5785(Black)



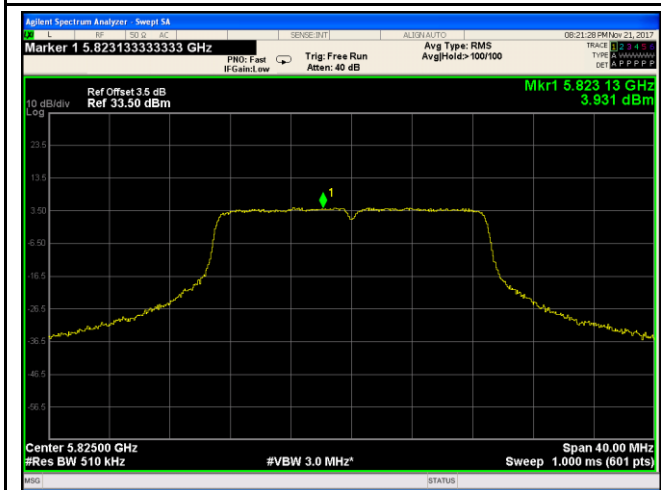
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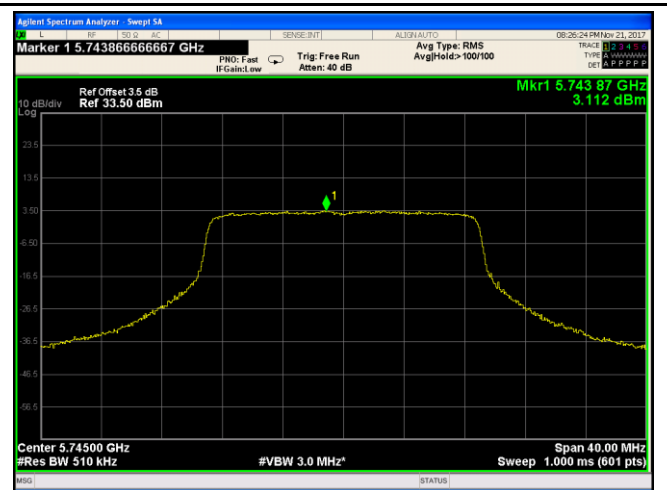
5725-5825MHz PSD - Low CH 5745(Blue)



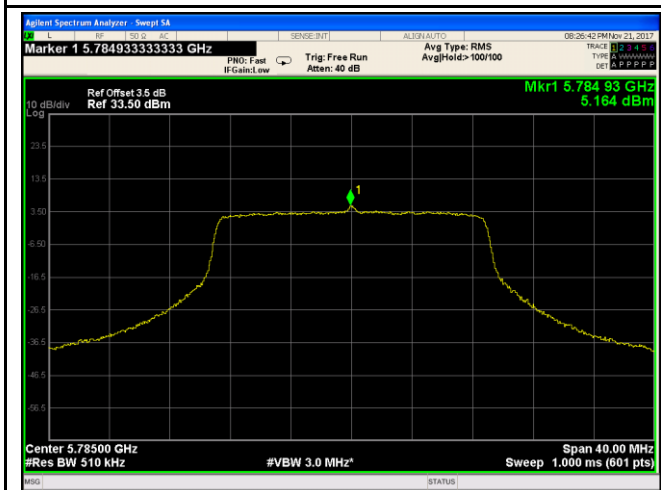
5725-5825MHz PSD - Mid CH 5785(Blue)



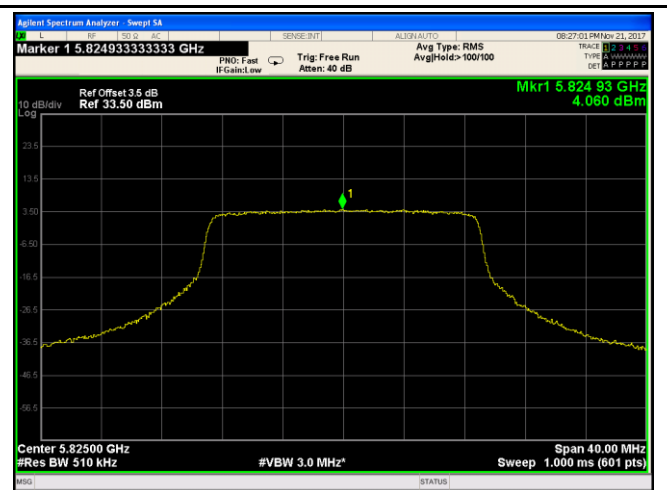
5725-5825MHz PSD - High CH 5825(Blue)



5725-5825MHz PSD - Low CH 5745(White)

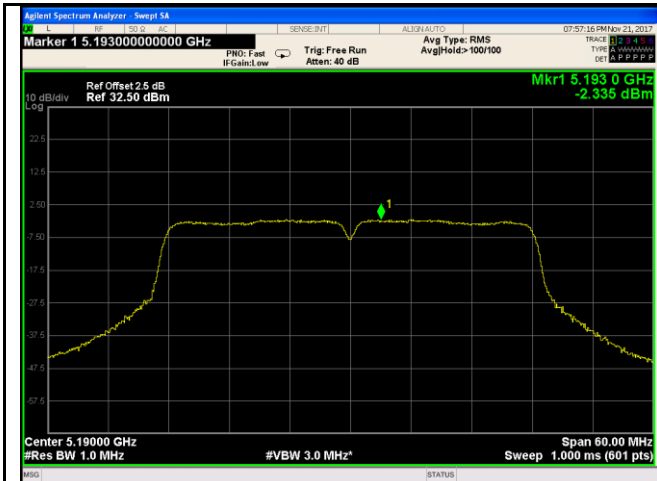


5725-5825MHz PSD - Mid CH 5785(White)

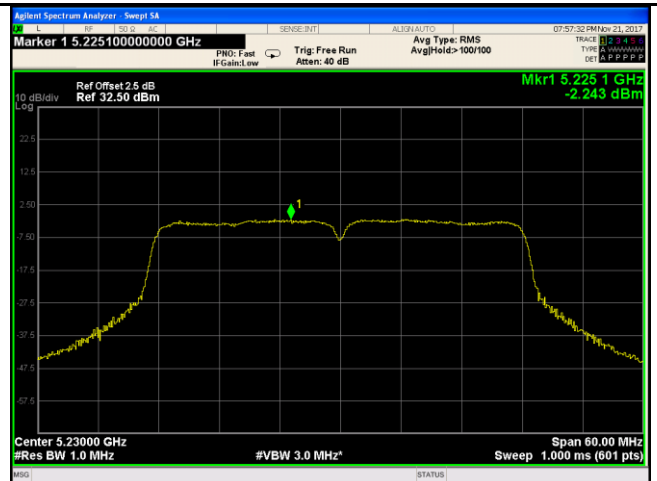


5725-5825MHz PSD - High CH 5825(White)

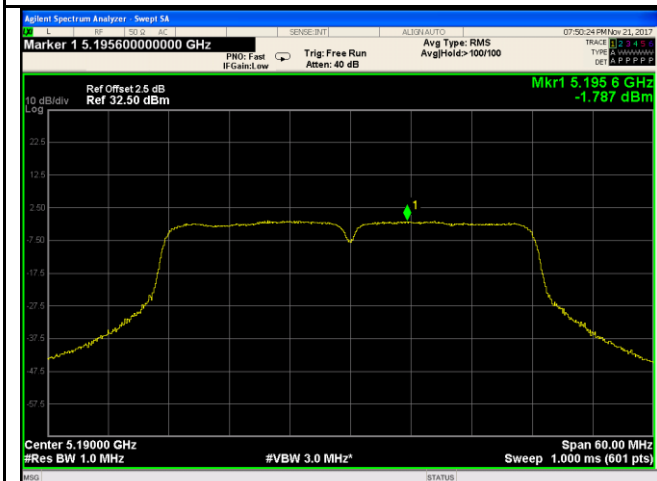
802.11n (40M)



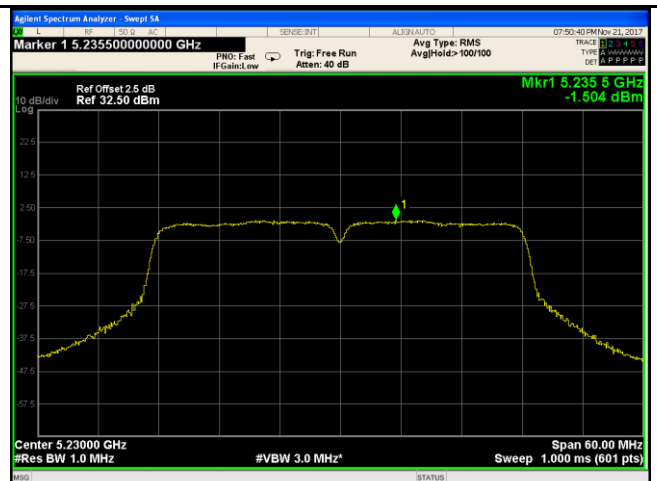
5150-5250MHz PSD - Low CH 5190(Gray)



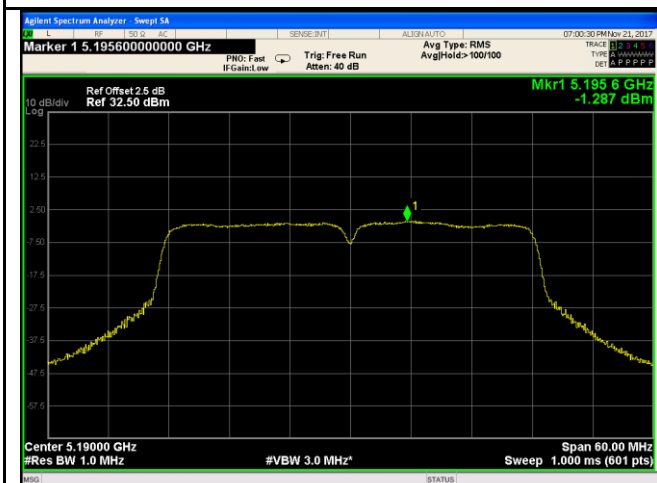
5150-5250MHz PSD - High CH 5230(Gray)



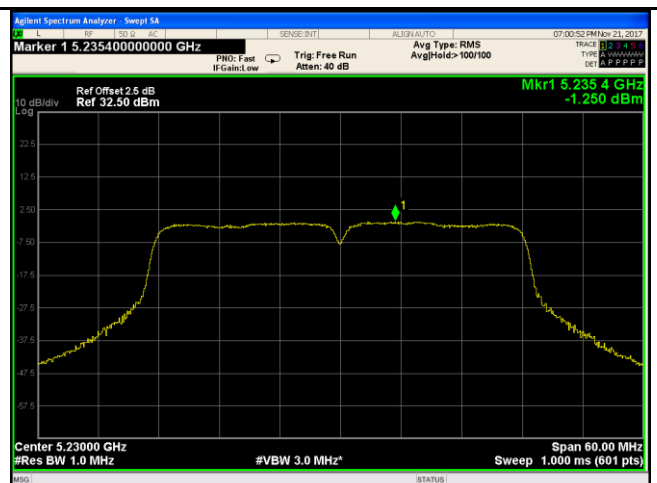
5150-5250MHz PSD - Low CH 5190(Black)



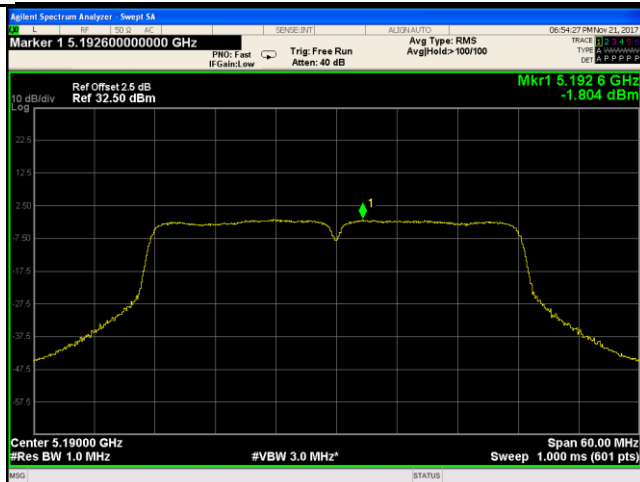
5150-5250MHz PSD - High CH 5230(Black)



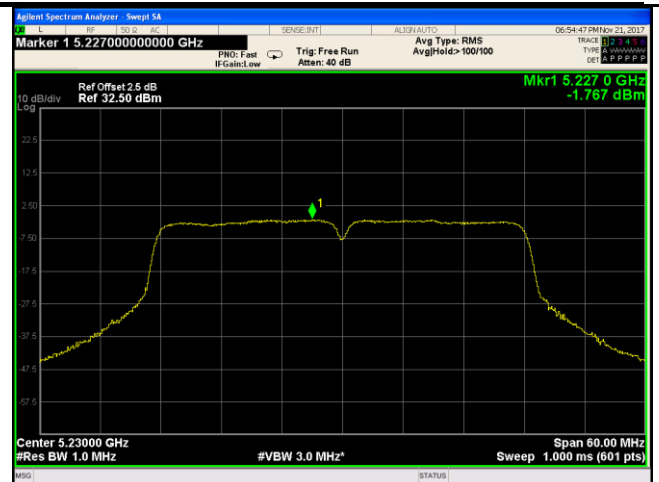
5150-5250MHz PSD - Low CH 5190(Blue)



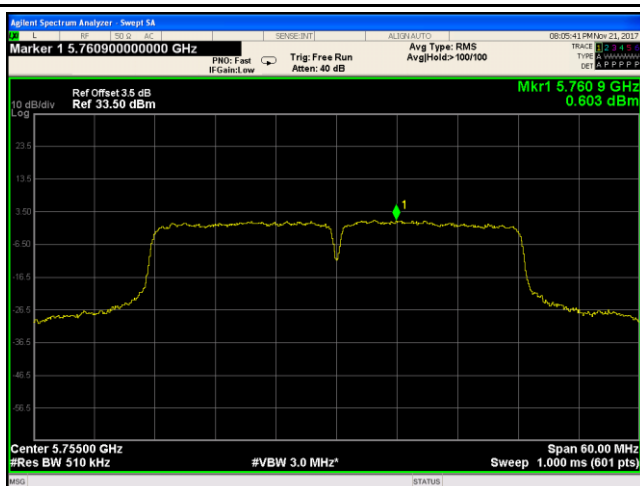
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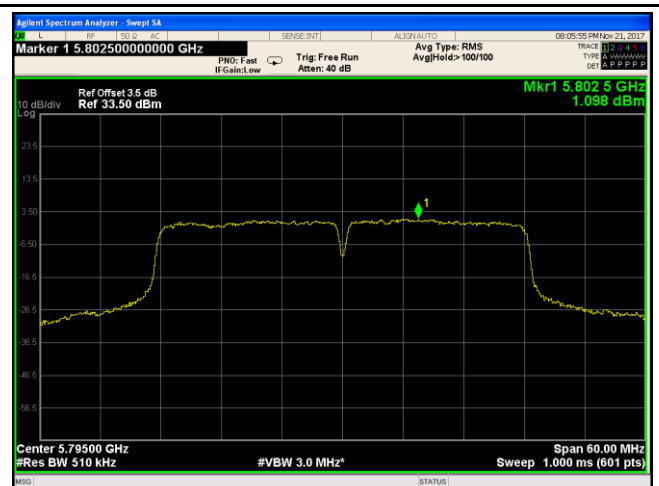
5150-5250MHz PSD - Low CH 5190(White)



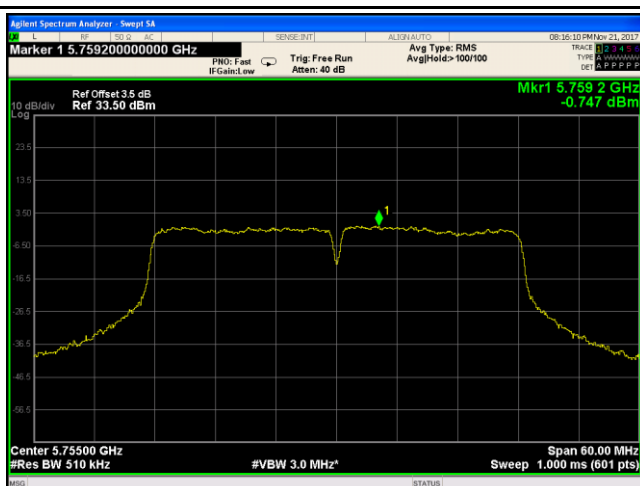
5150-5250MHz PSD - High CH 5230(White)



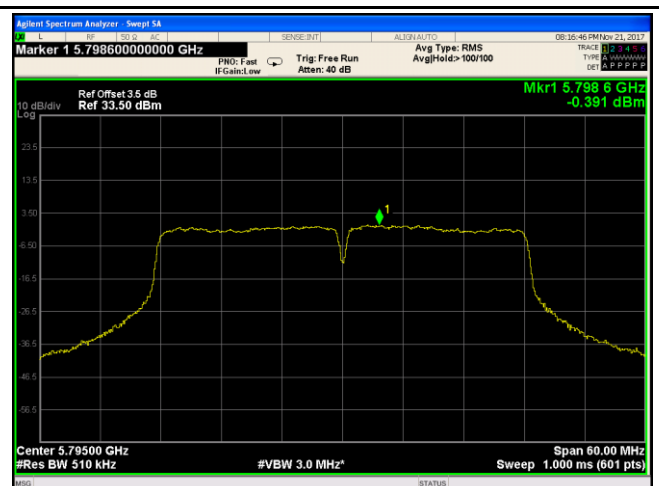
5725-5825MHz PSD - Low CH 5755(Gray)



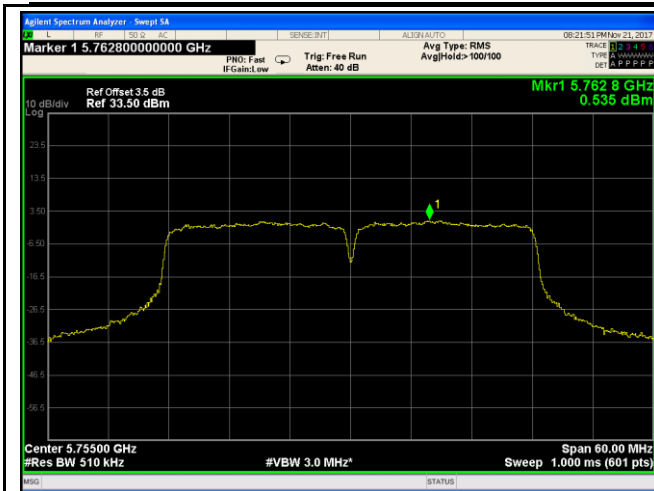
5725-5825MHz PSD - High CH 5795(Gray)



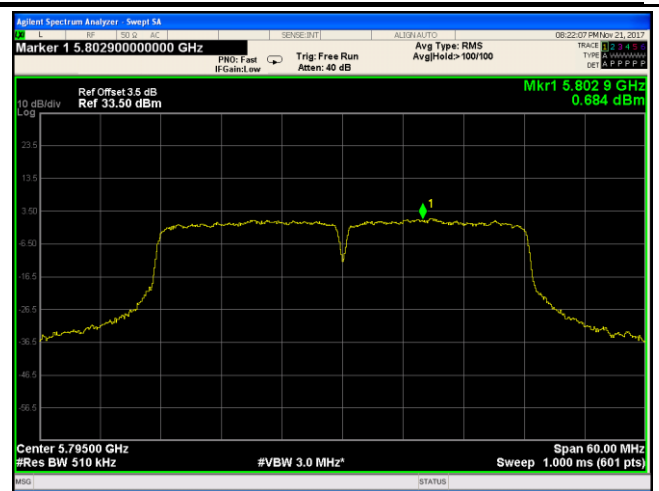
5725-5825MHz PSD - Low CH 5755(Black)



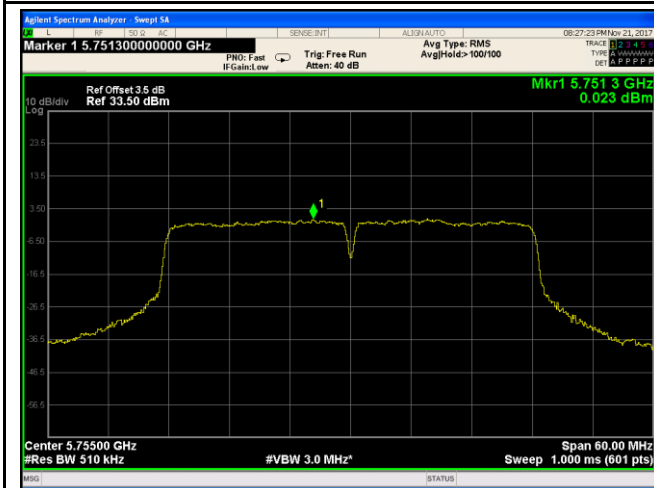
5725-5825MHz PSD - High CH 5795(Black)



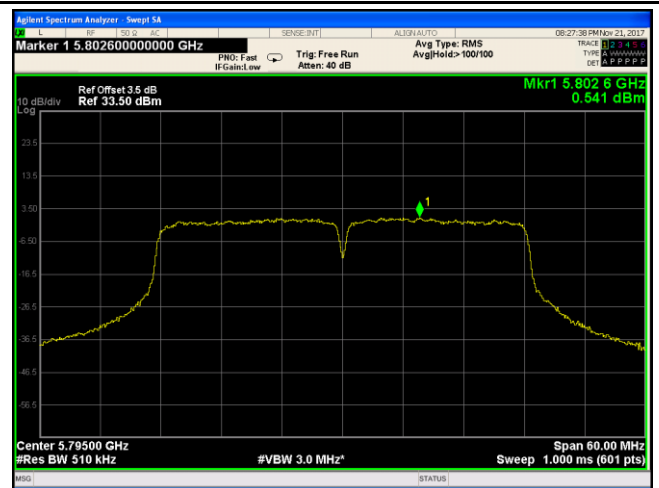
5725-5825MHz PSD - Low CH 5755(Blue)



5725-5825MHz PSD - High CH 5795(Blue)

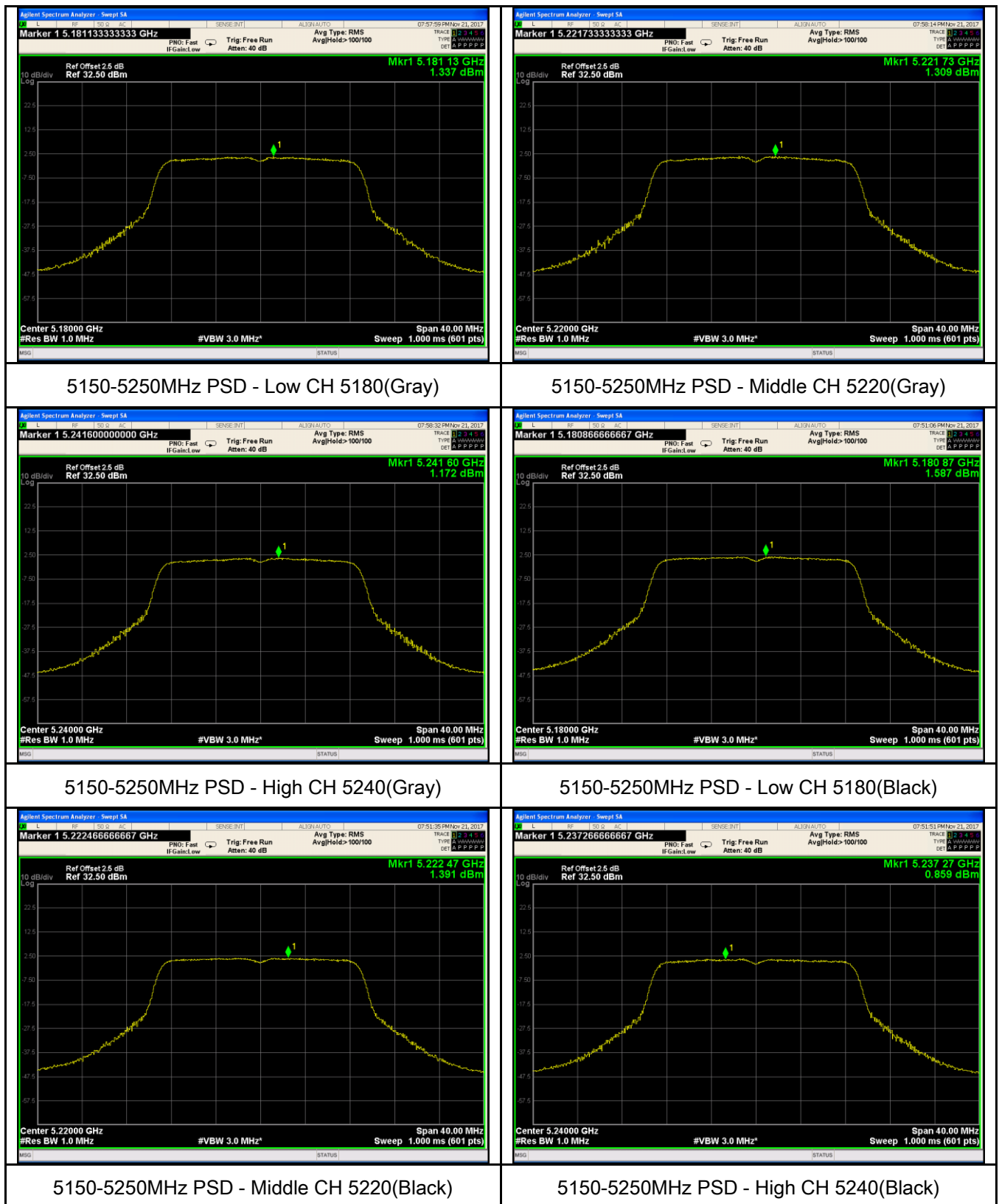


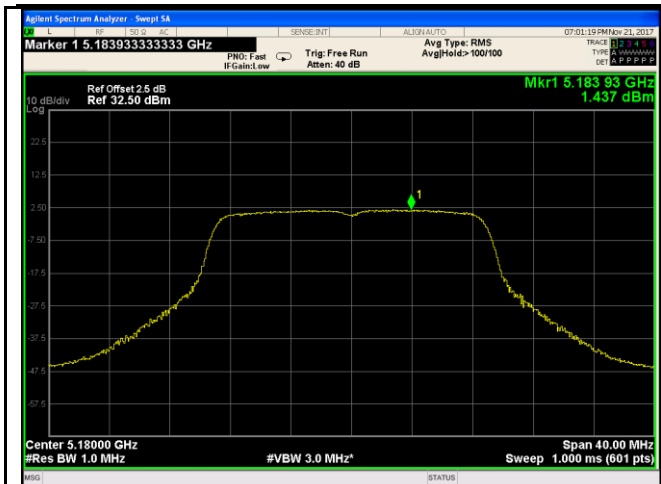
5725-5825MHz PSD - Low CH 5755(White)



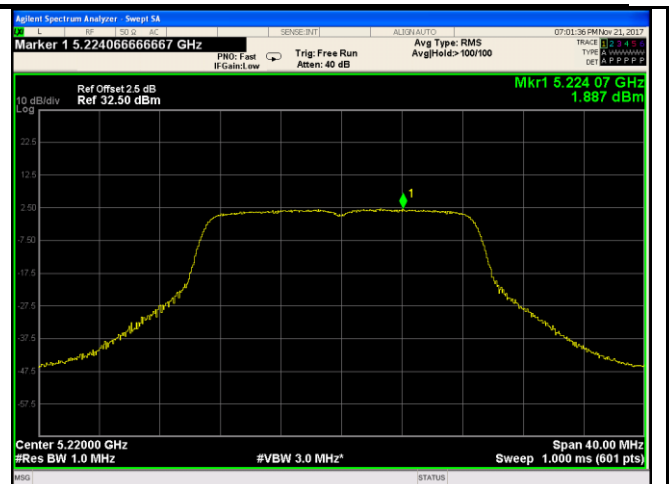
5725-5825MHz PSD - High CH 5795(White)

802.11ac (20M)

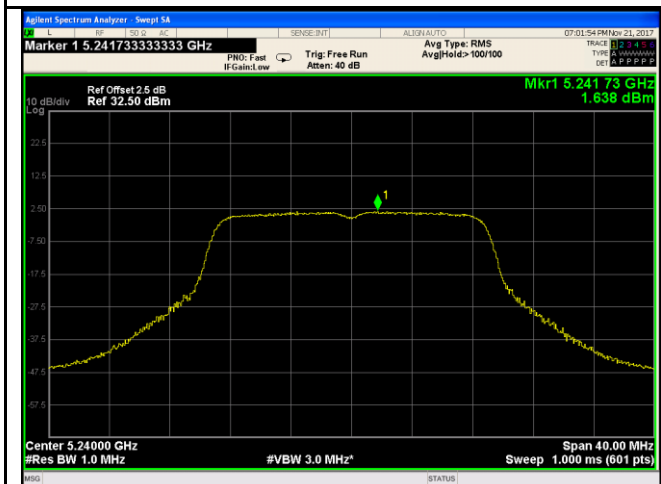




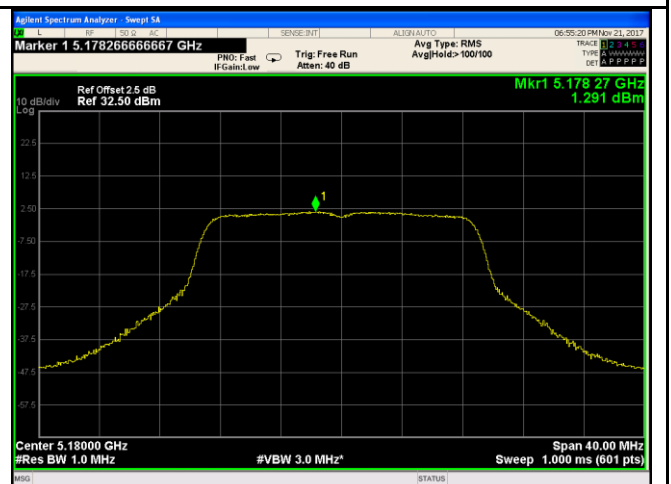
5150-5250MHz PSD - Low CH 5180(Blue)



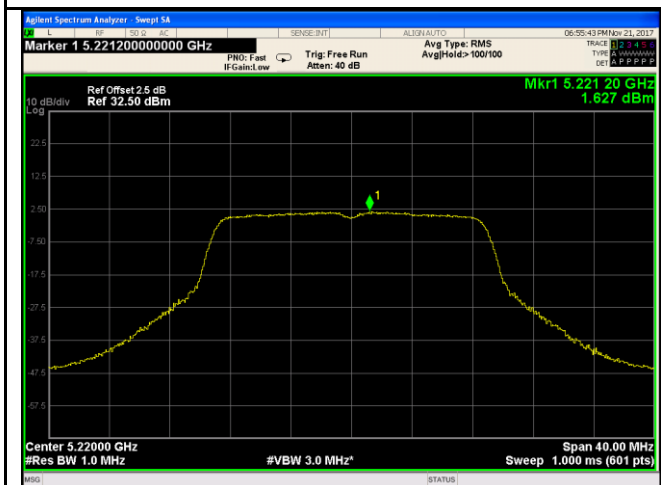
5150-5250MHz PSD - Middle CH 5220(Blue)



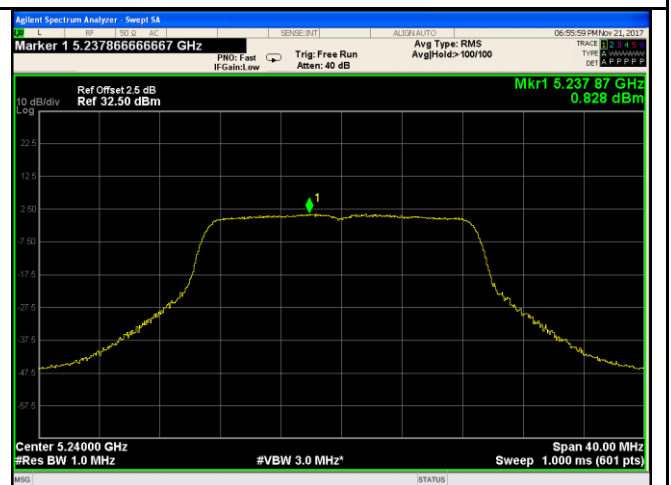
5150-5250MHz PSD - High CH 5240(Blue)



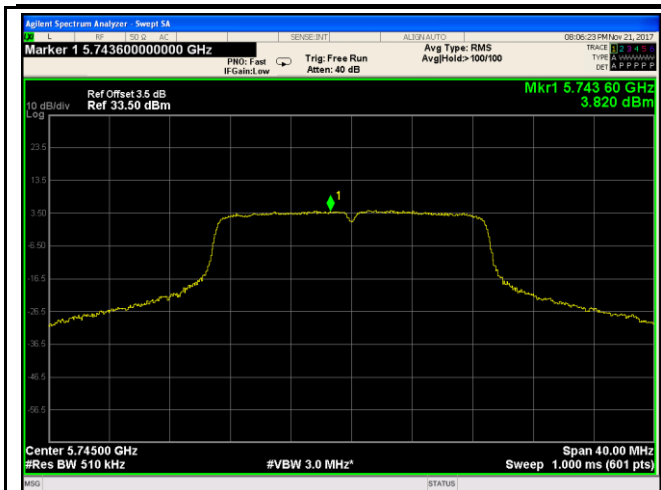
5150-5250MHz PSD - Low CH 5180(White)



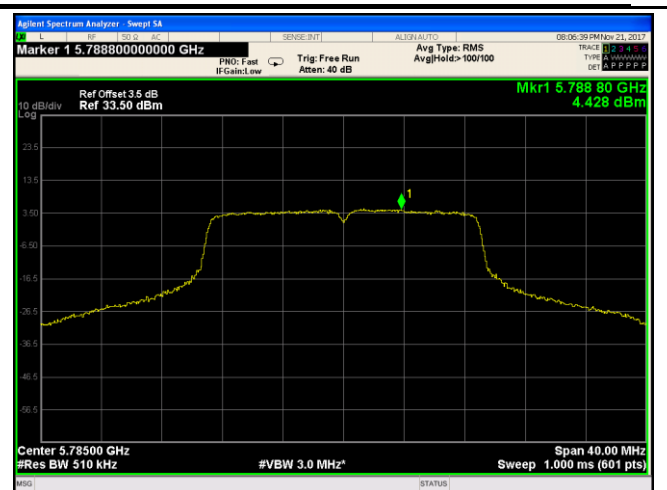
5150-5250MHz PSD - Middle CH 5220(White)



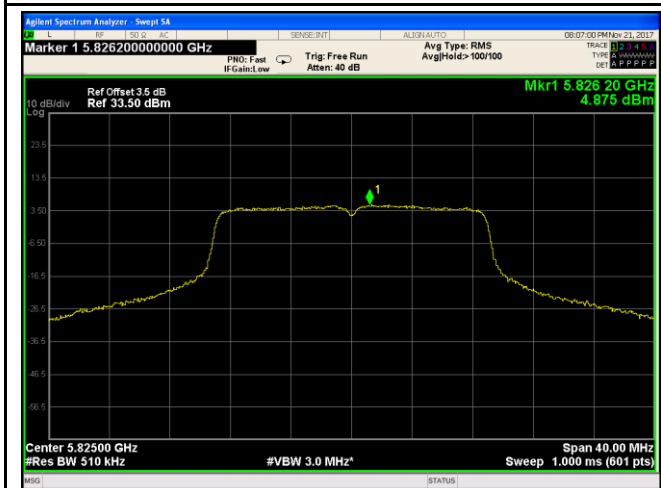
5150-5250MHz PSD - High CH 5240(White)



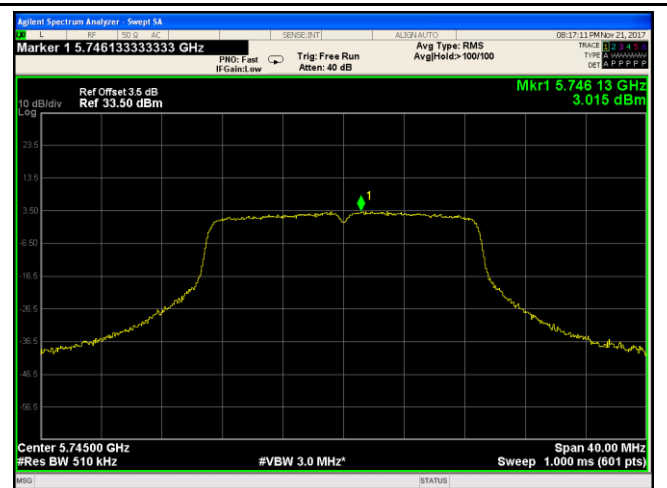
5725-5825MHz PSD - Low CH 5745(Gray)



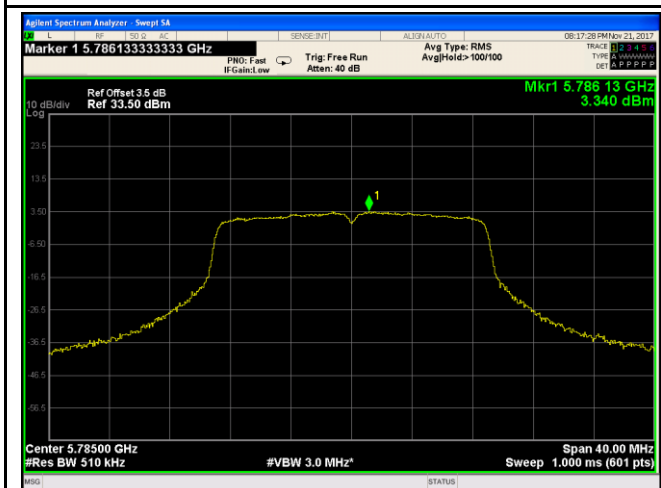
5725-5825MHz PSD - Mid CH 5785(Gray)



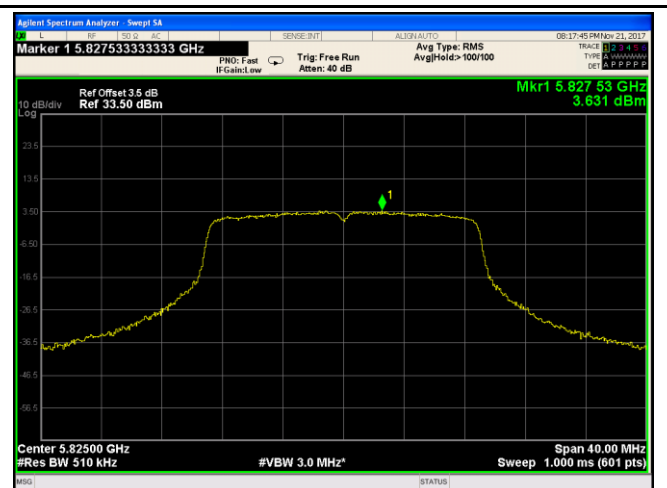
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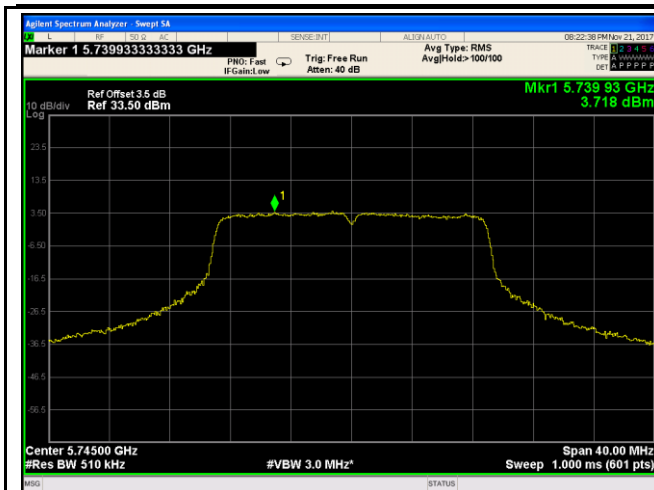
5725-5825MHz PSD - Low CH 5745(Black)



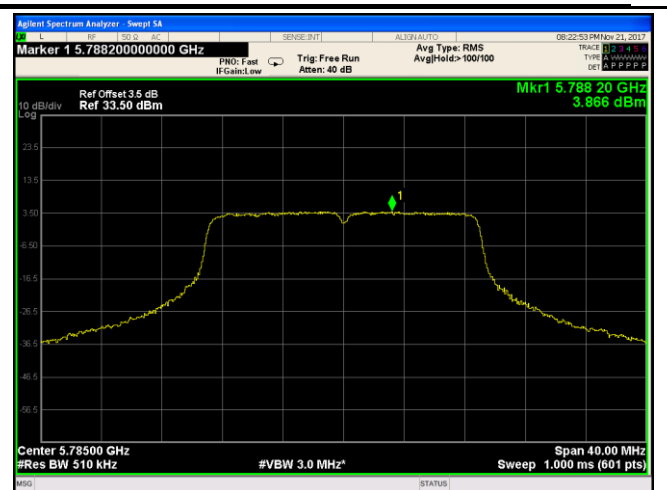
5725-5825MHz PSD - Mid CH 5785(Black)



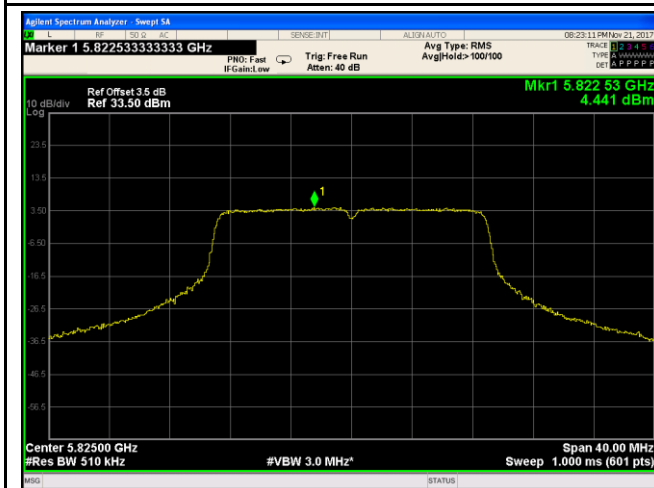
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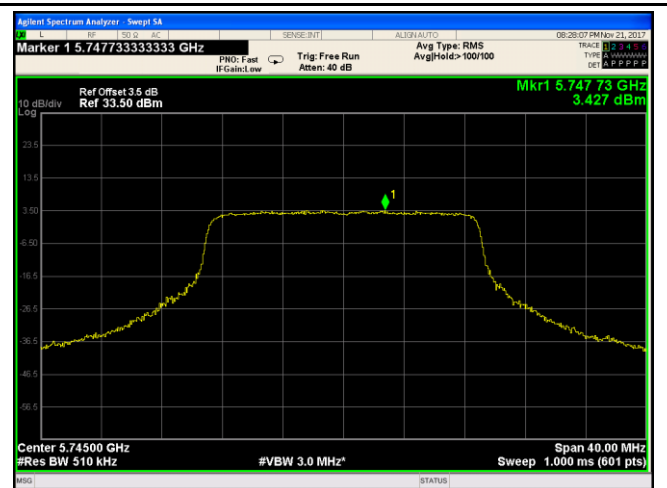
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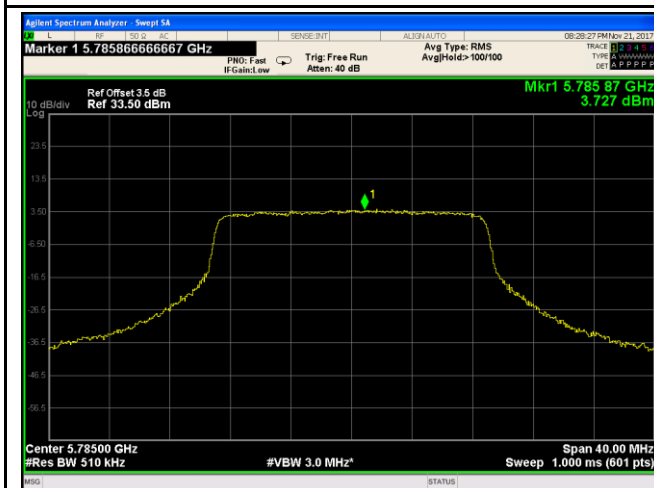
5725-5825MHz PSD - Mid CH 5785(Blue)



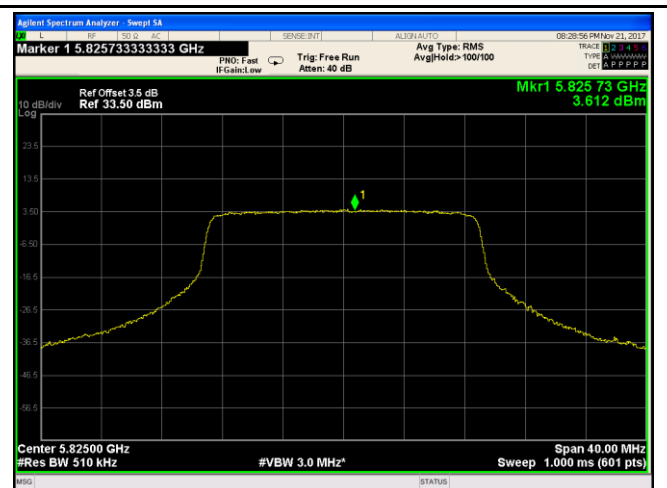
5725-5825MHz PSD - High CH 5825(Blue)



5725-5825MHz PSD - Low CH 5745(White)

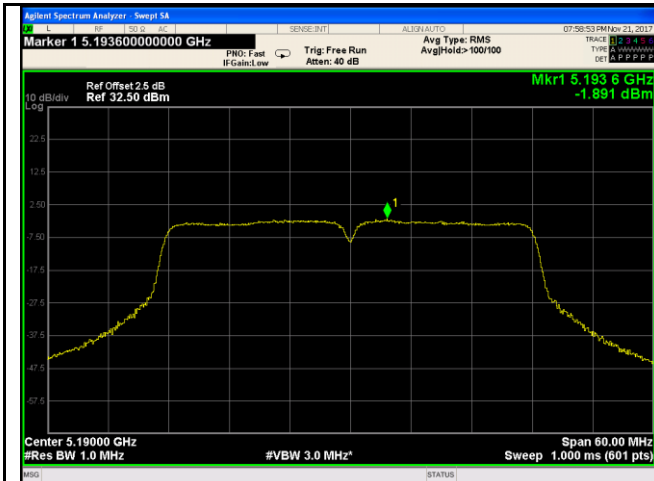


5725-5825MHz PSD - Mid CH 5785(White)

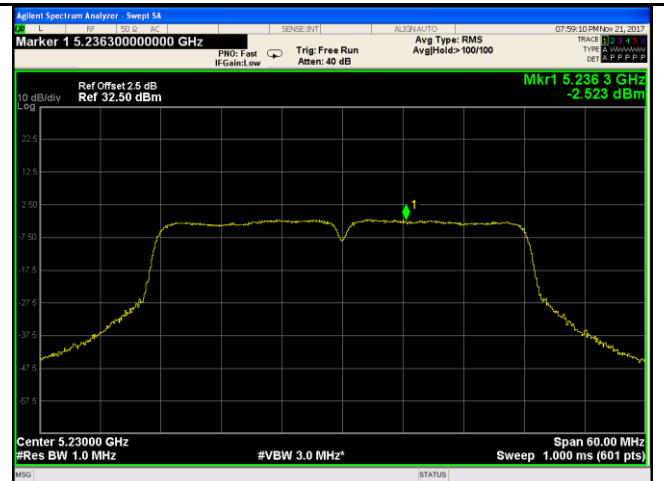


5725-5825MHz PSD - High CH 5825(White)

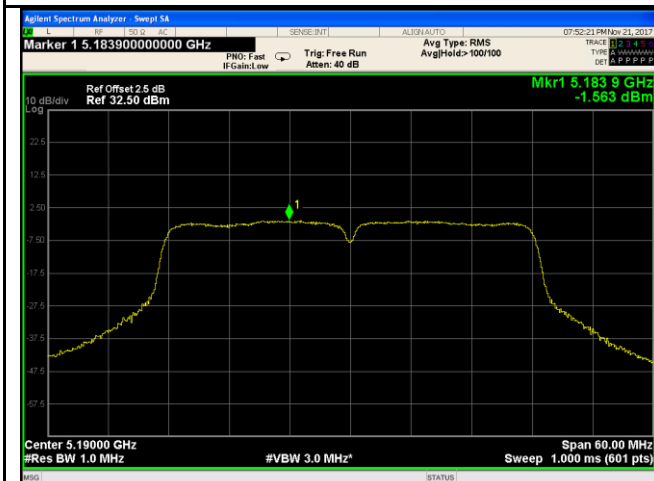
802.11ac (40M)



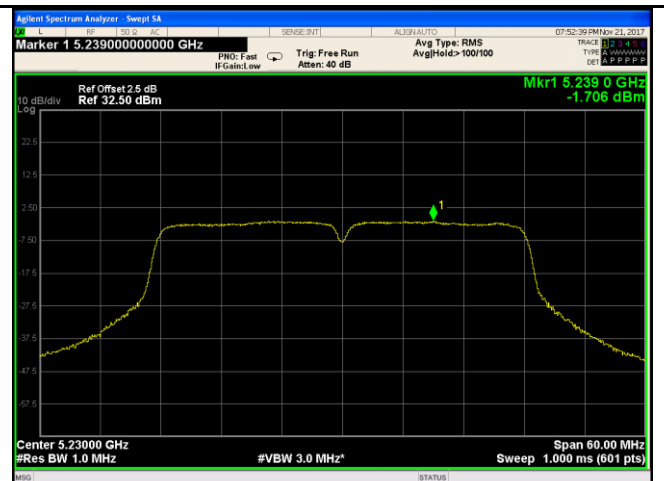
5150-5250MHz PSD - Low CH 5190(Gray)



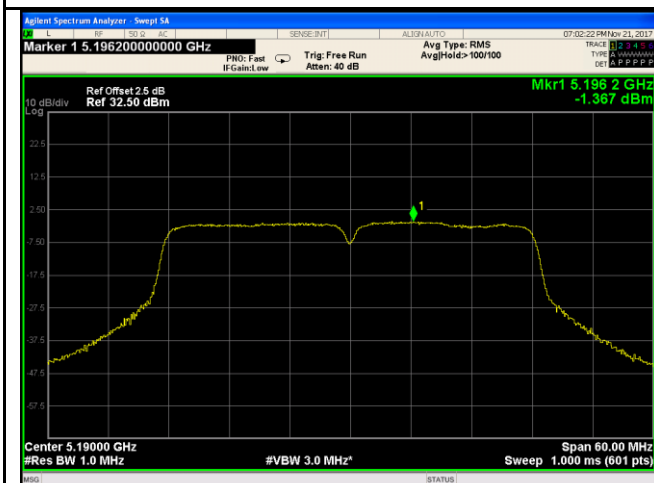
5150-5250MHz PSD - High CH 5230(Gray)



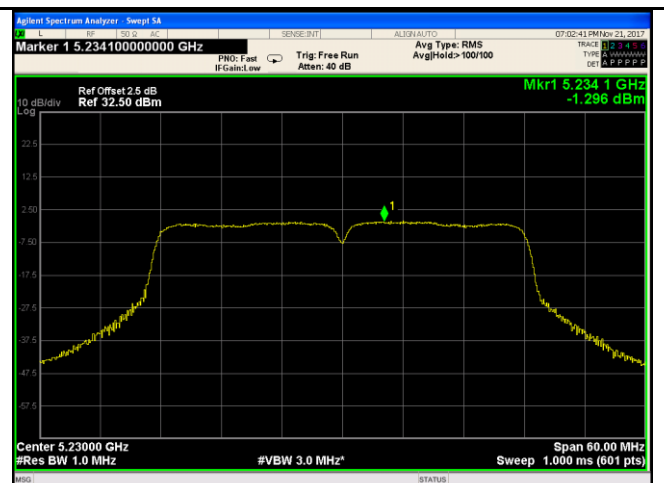
5150-5250MHz PSD - Low CH 5190(Black)



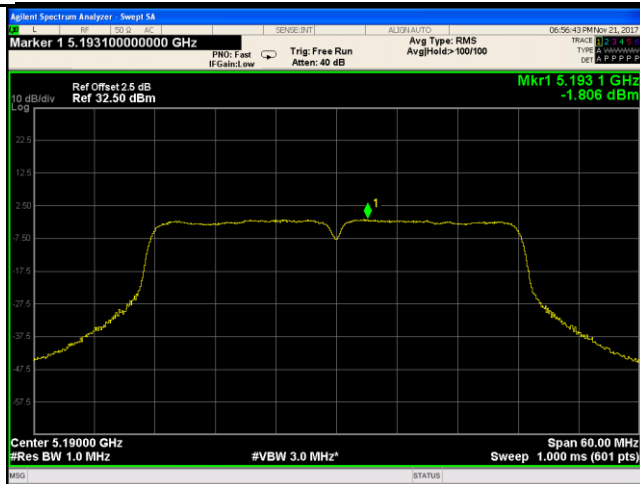
5150-5250MHz PSD - High CH 5230(Black)



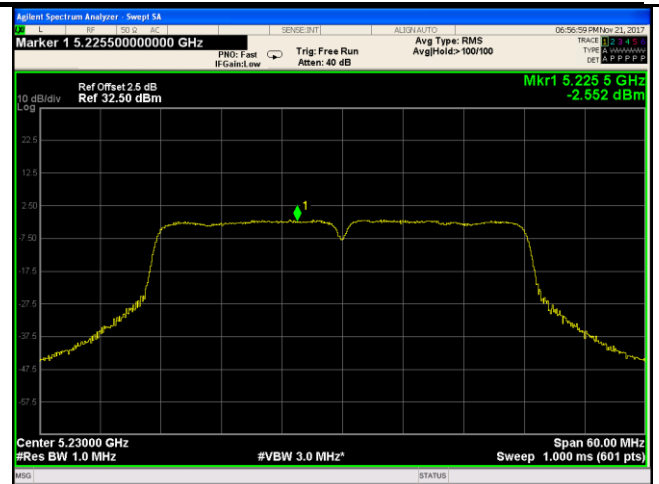
5150-5250MHz PSD - Low CH 5190(Blue)



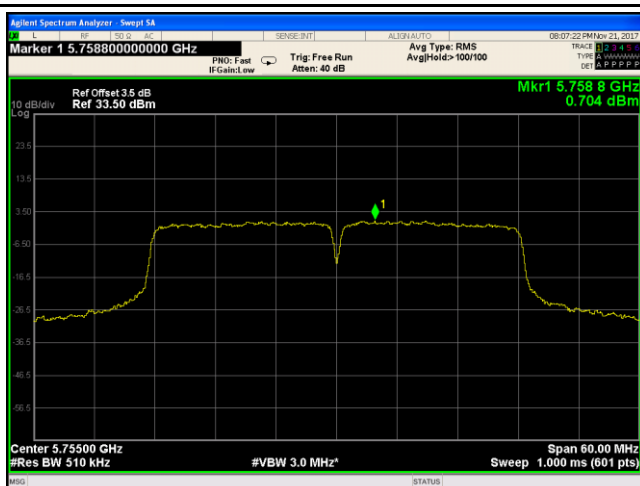
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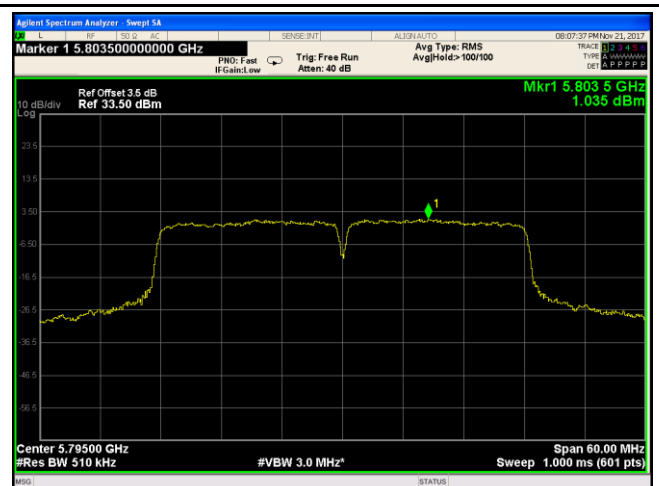
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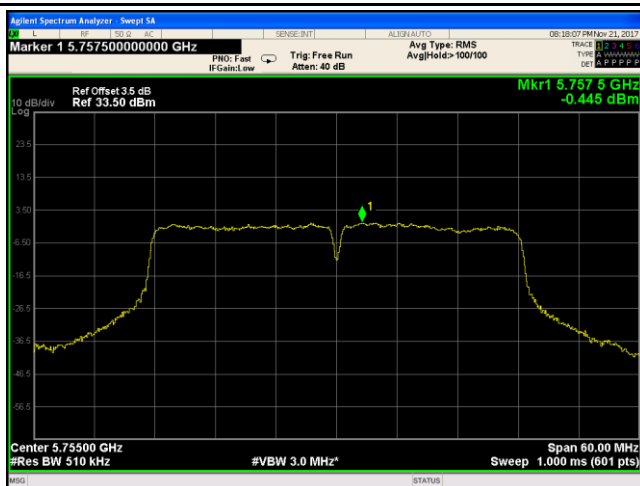
5150-5250MHz PSD - High CH 5230(White)



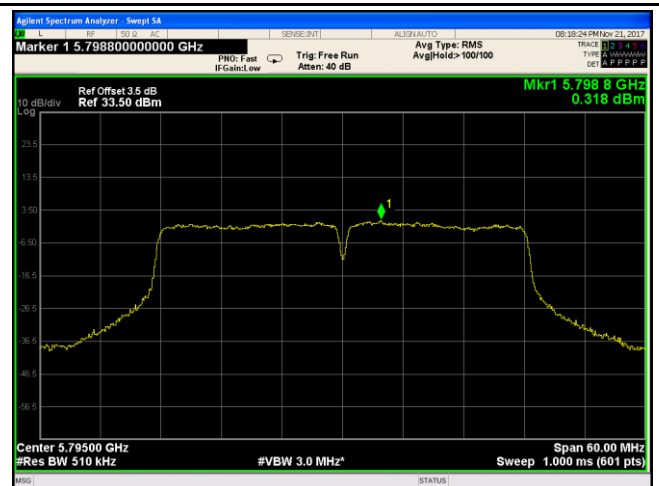
5725-5825MHz PSD - Low CH 5755(Gray)



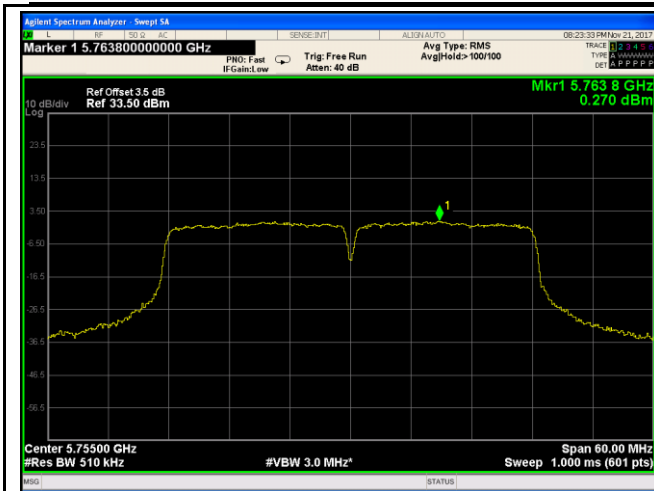
5725-5825MHz PSD - High CH 5795(Gray)



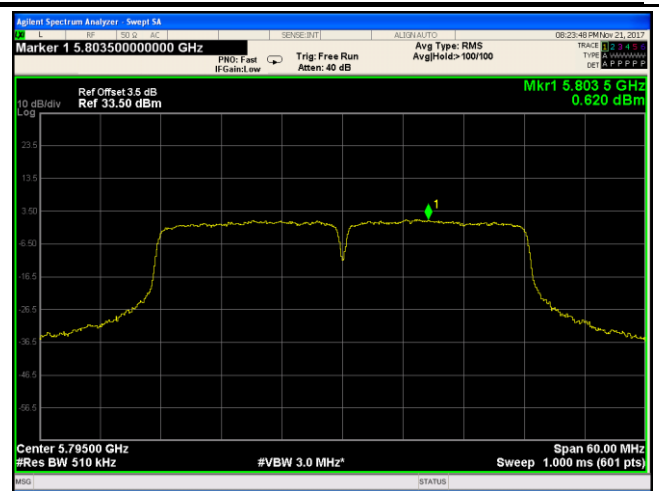
5725-5825MHz PSD - Low CH 5755(Black)



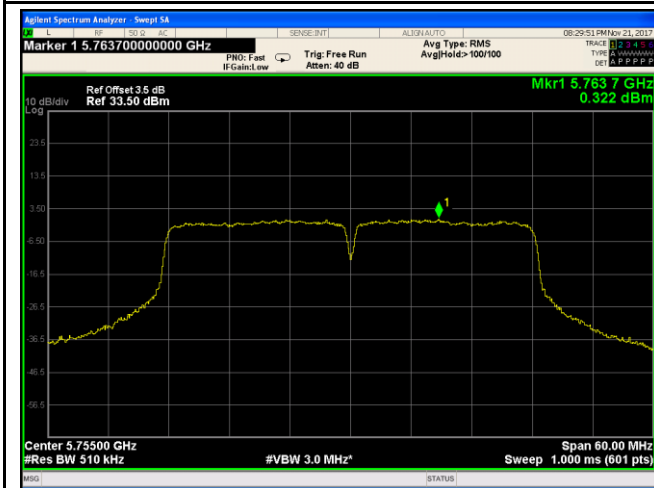
5725-5825MHz PSD - High CH 5795(Black)



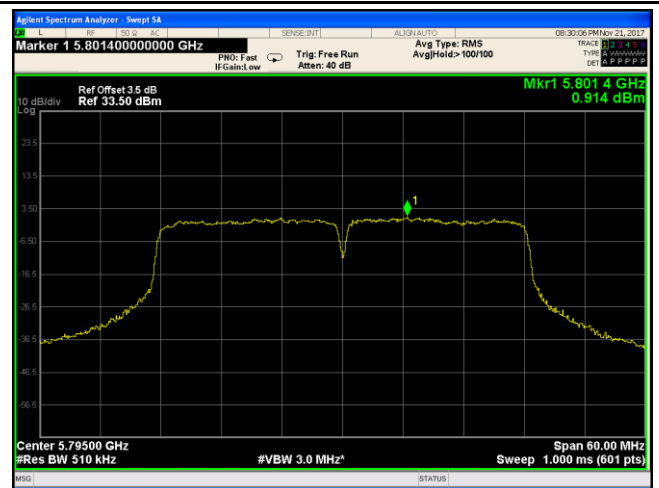
5725-5825MHz PSD - Low CH 5755(Blue)



5725-5825MHz PSD - High CH 5795(Blue)

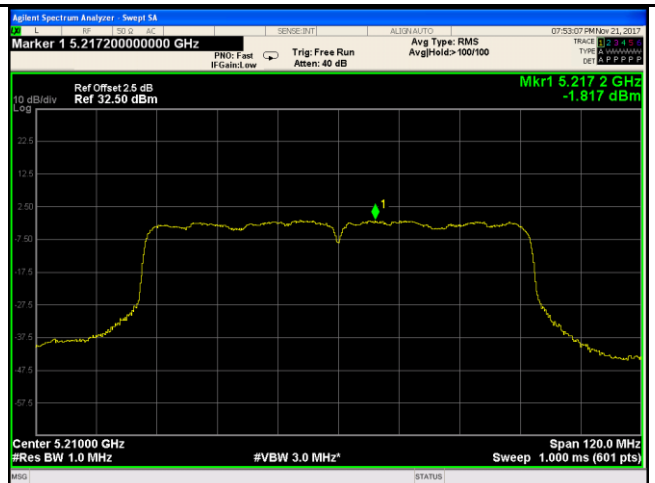
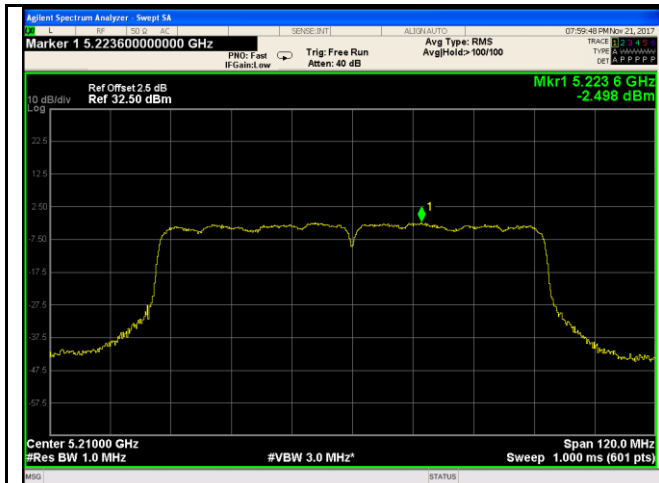


5725-5825MHz PSD - Low CH 5755(White)

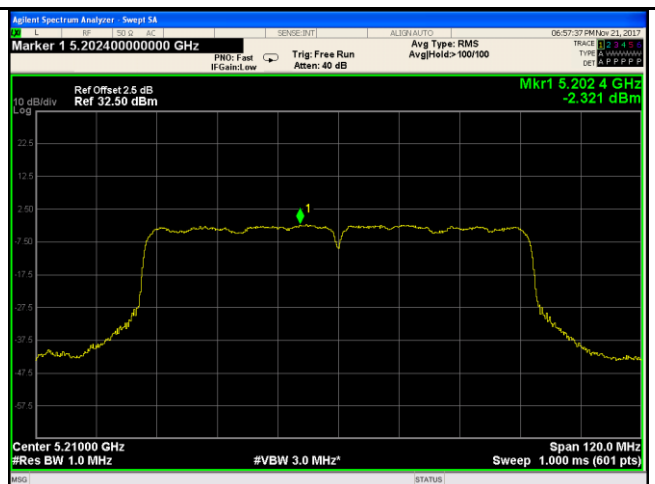
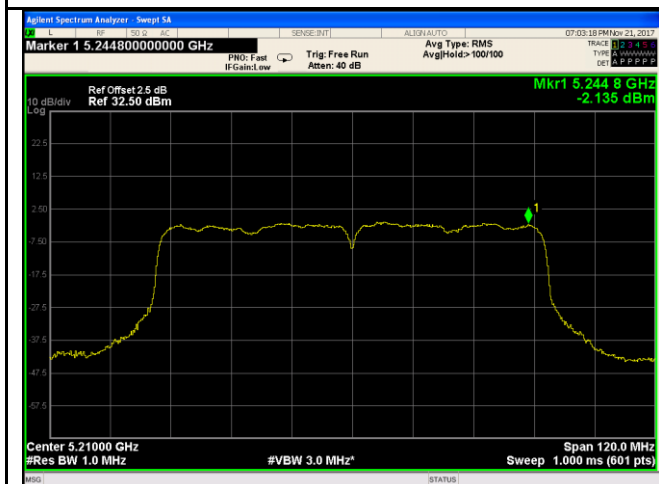


5725-5825MHz PSD - High CH 5795(White)

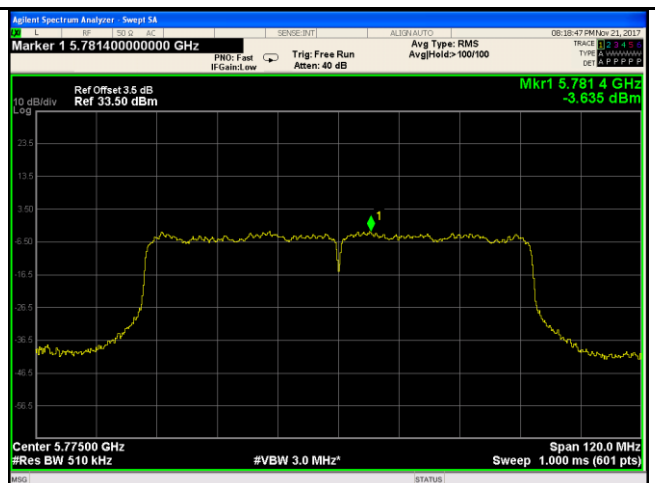
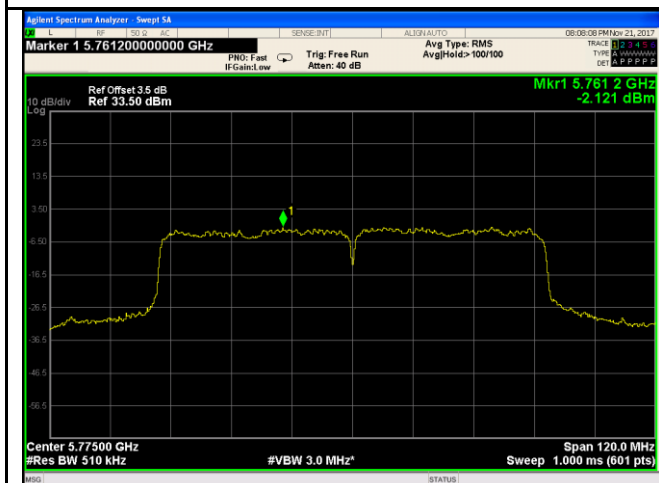
802.11ac (80M)



5150-5250MHz PSD - One CH 5210(Gray)

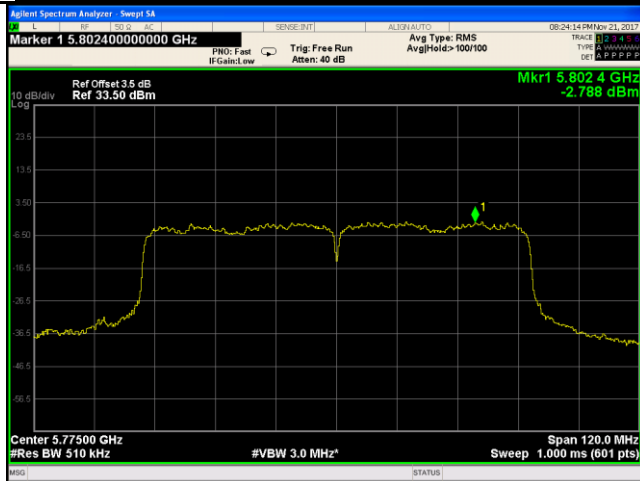


5150-5250MHz PSD - One CH 5210(Blue)

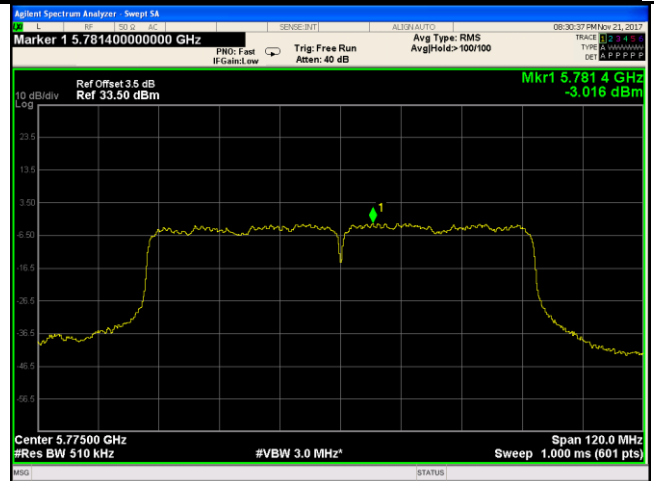


5725-5825MHz PSD - One CH 5775(Gray)

5725-5825MHz PSD - One CH 5775(Black)



5725-5825MHz PSD - One CH 5775(Blue)



5725-5825MHz PSD - One CH 5775(White)

6.6 §15.407(1) and b(4) Band-Edge

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2.	Environmental Conditions	Temperature	25°C
		Relative Humidity	55%
		Atmospheric Pressure	1017mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.

4. Test date : November 23&December 15, 2017

Tested By : Aaron Liang

Standard Requirement:

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz .

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz .

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz .

(4) For transmitters operating in the 5.725-5.85 GHz band:

Procedures:

Measurement Procedure Band edge:

Bandedge are measured by setting the analyzer as follows:

- (i) RBW = 1 MHz.
- (ii) VBW $\geq$ 3 MHz.
- (iii) Detector = Peak.
- (iv) Sweep time = auto.
- (v) Trace mode = max hold.
- (vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

(i) Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge..

(ii) Integration Method •

For maximum emissions measurements, follow the procedures described in section II.G.5., “ Procedures for Unwanted Maximum Emissions Measurements above 1000 MHz” , except for the following changes:

- Set RBW = 100 kHz

- Set $VBW \geq 3 \cdot RBW$
- Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured. CAUTION: You must ensure that the spectrum analyzer or EMI

receiver is set for peak-detection and max-hold for this measurement.

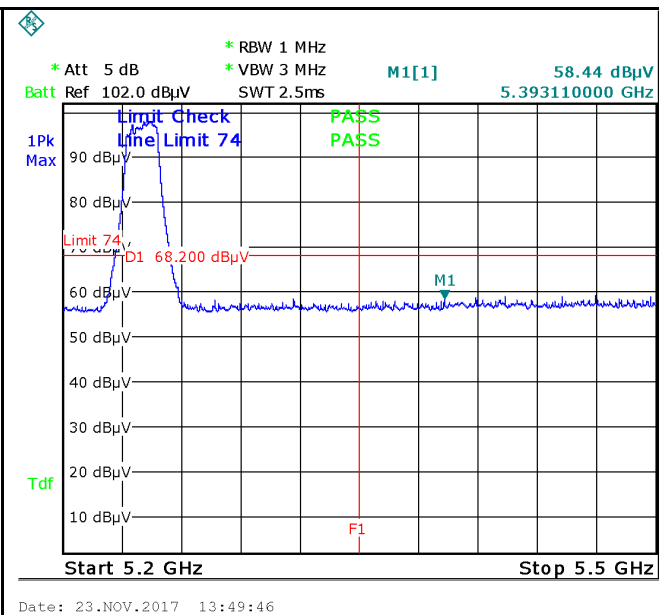
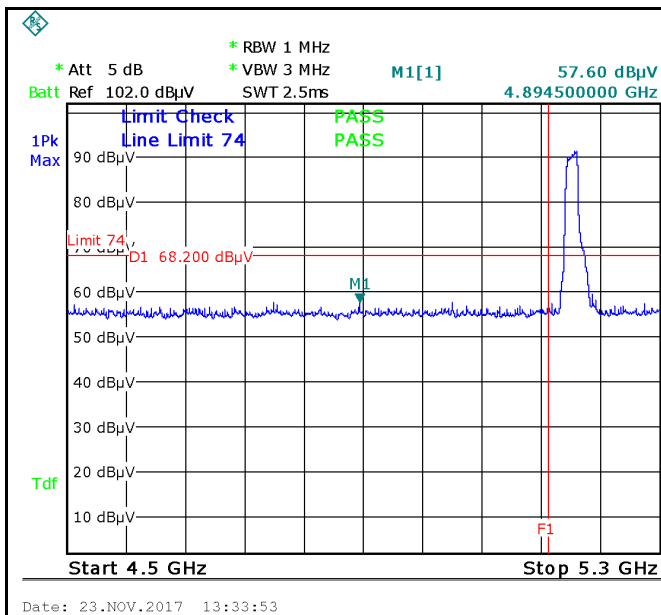
- For average emissions measurements, follow the procedures described in section II.G.6., “Procedures for Average Unwanted Emissions Measurements above 1000 MHz”, except for the following changes:
 - Set $RBW = 100 \text{ kHz}$
 - Set $VBW \geq 3 \cdot RBW$
 - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.

Test Result: Pass.

Please refer to the following tables and plots.

Band edge measurement result

5150-5250MHz

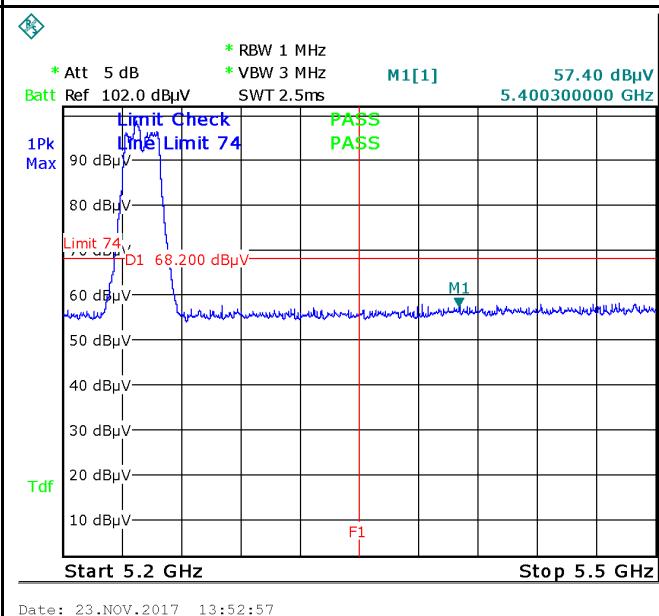
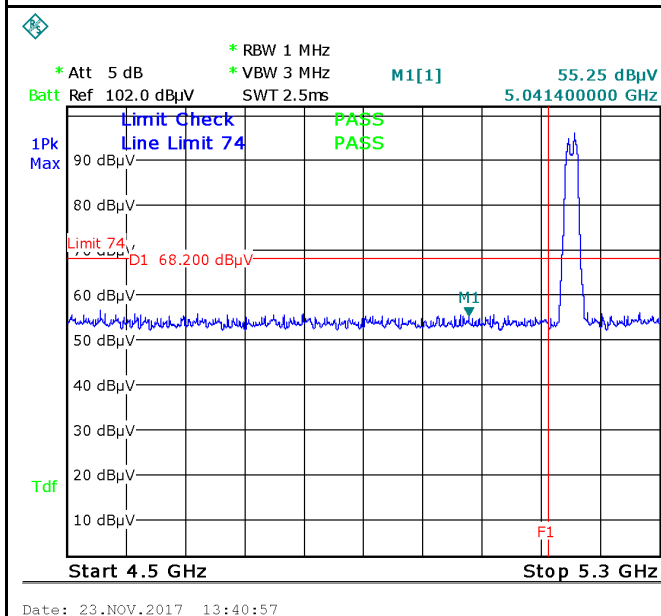


Band Edge, Left Side (Peak) - a

Note: F1 is frequency 4500MHz;

Band Edge, Right Side (Peak) - a

Note: F1 is frequency 5200MHz

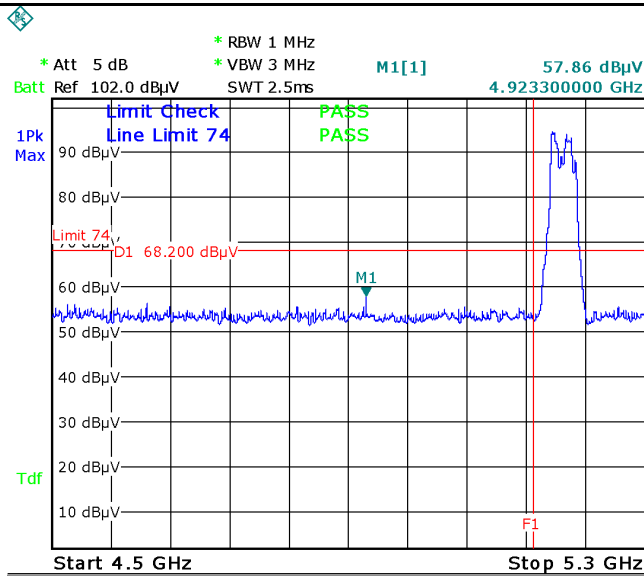


Band Edge, Left Side (Peak) - ac20

Note: F1 is frequency 4500MHz;

Band Edge, Right Side (Peak) - ac20

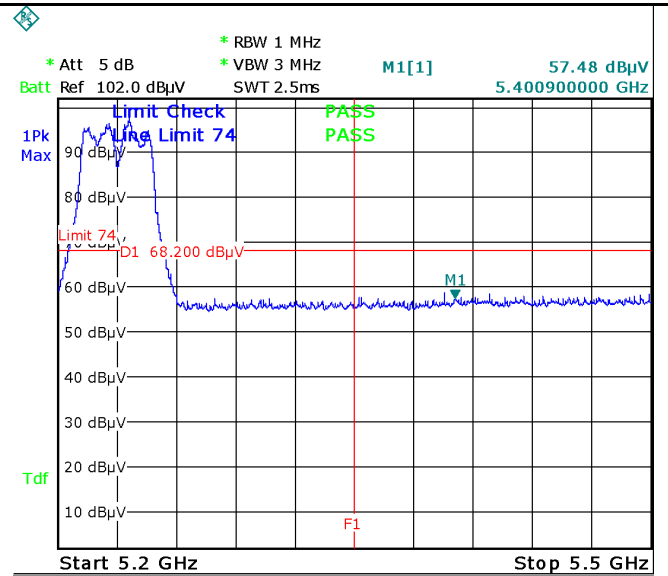
Note: F1 is frequency 5200MHz



Date: 23.NOV.2017 13:41:41

Band Edge, Left Side (Peak) - ac40

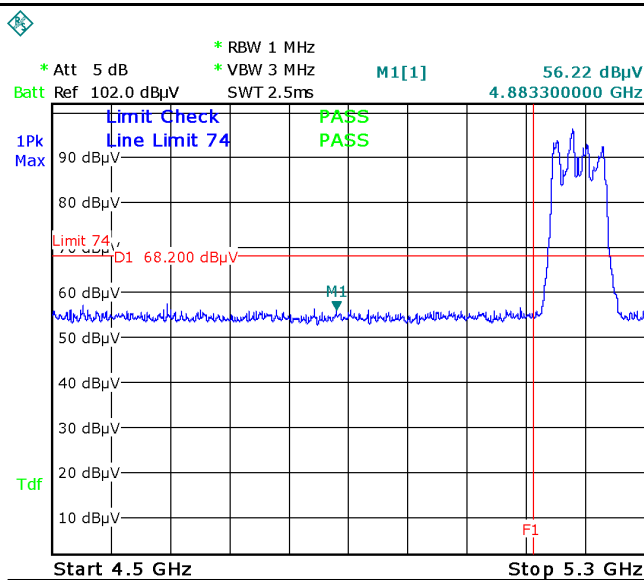
Note: F1 is frequency 4500MHz;



Date: 23.NOV.2017 13:53:53

Band Edge, Right Side (Peak) - ac40

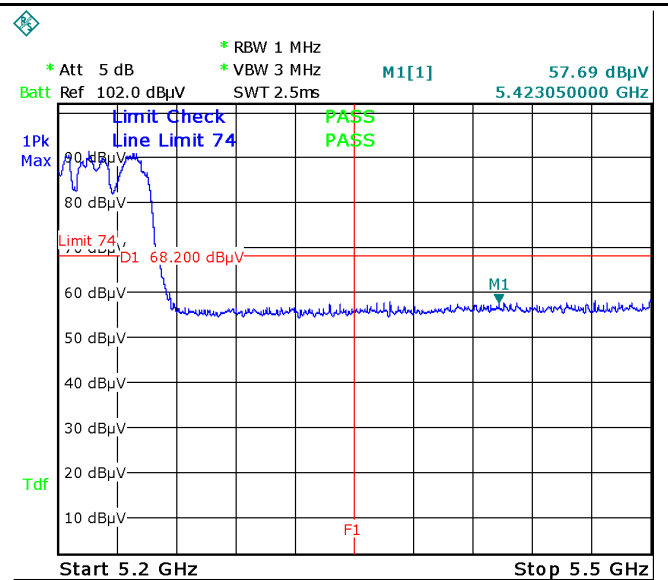
Note: F1 is frequency 5200MHz



Date: 23.NOV.2017 13:42:40

Band Edge, Left Side (Peak) - ac80

Note: F1 is frequency 4500MHz;



Date: 23.NOV.2017 13:55:10

Band Edge, Right Side (Peak) - ac80

Note: F1 is frequency 5200MHz