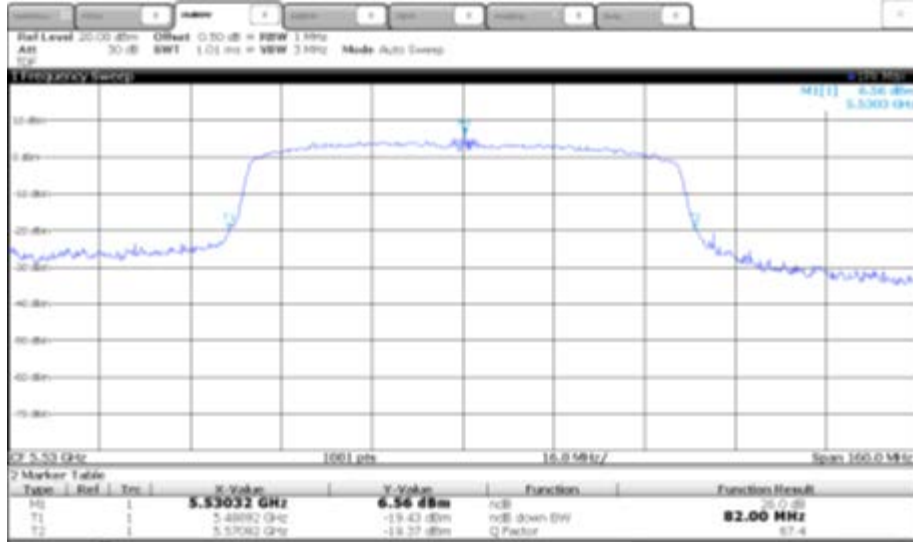


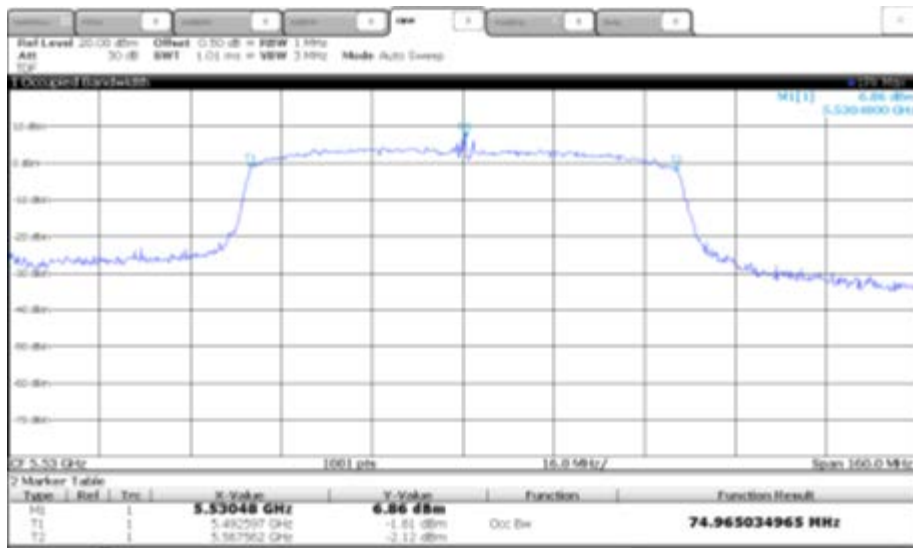
* 802.11ac HT80_5 470 Band (26 dB Bandwidth)

-5 530 MHz

EBW



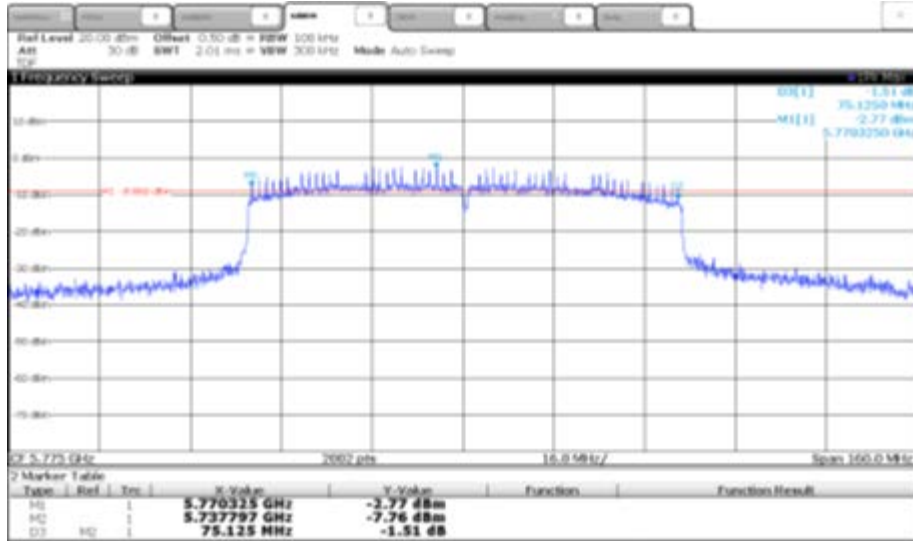
OBW



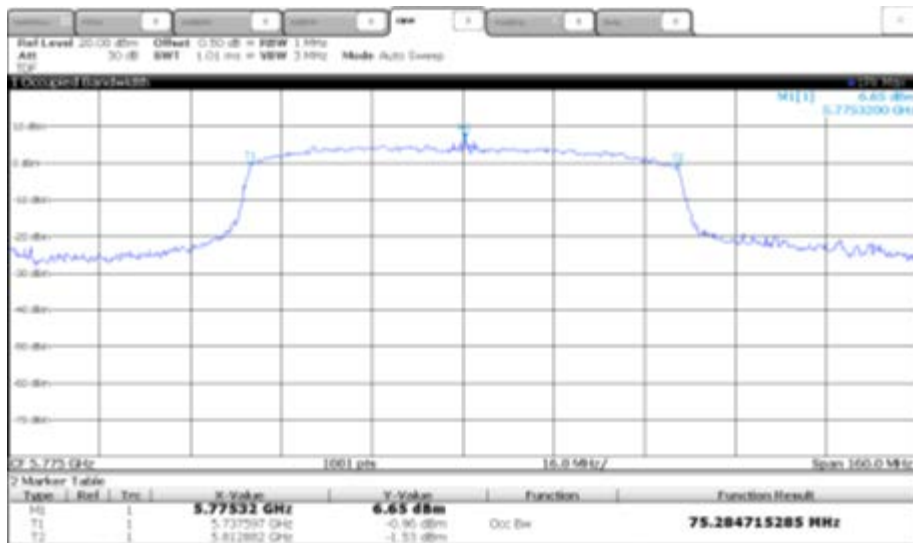
* 802.11ac HT80_5 725 Band (6 dB Bandwidth)

-5 775 MHz

6 dB Bandwidth



OBW



5.4 Peak Power Spectral Density

5.4.1 Regulation

According to §15.407(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

According to §15.407(a) (2) 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.

According to §15.407(a) (3) 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. 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.4.2 Measurement Procedure

These test measurement settings are specified in section F of 789033 D02 General UNII Test Procedures New Rules v01.

5.4.2.1 Maximum power spectral density (PSD)

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
 - c) Set $VBW \geq 3$ RBW.
 - d) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - e) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - f) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

5.4.3 Test Result

-Complied

* 802.11a

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 180	2.91	0.33	3.24	11.00	7.76
5 200	2.33	0.33	2.66	11.00	8.34
5 240	2.53	0.33	2.86	11.00	8.14

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 260	1.60	0.33	1.93	11.00	9.07
5 280	2.51	0.33	2.84	11.00	8.16
5 320	1.59	0.33	1.92	11.00	9.08

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 500	2.13	0.33	2.46	11.00	8.54
5 580	2.16	0.33	2.49	11.00	8.51
5 700	3.03	0.33	3.36	11.00	7.64

5 725 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 745	3.58	0.33	3.91	30.00	26.09
5 765	3.63	0.33	3.96	30.00	26.04
5 805	4.29	0.33	4.62	30.00	25.38

* 802.11n HT20

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 180	2.83	0.31	3.14	11.00	7.86
5 200	2.81	0.31	3.12	11.00	7.88
5 240	2.56	0.31	2.87	11.00	8.13

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 260	2.00	0.31	2.31	11.00	8.69
5 280	2.61	0.31	2.92	11.00	8.08
5 320	2.03	0.31	2.34	11.00	8.66

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 500	2.76	0.31	3.07	11.00	7.93
5 580	2.19	0.31	2.50	11.00	8.50
5 700	3.88	0.31	4.19	11.00	6.81

5 725 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 745	3.98	0.31	4.29	30.00	25.71
5 765	3.97	0.31	4.28	30.00	25.72
5 805	3.89	0.31	4.20	30.00	25.80

* 802.11n HT40

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 190	0.13	0.65	0.78	11.00	10.22
5 230	0.10	0.65	0.75	11.00	10.25

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 270	-0.87	0.65	-0.22	11.00	11.22
5 310	-0.32	0.65	0.33	11.00	10.67

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 510	-0.42	0.65	0.23	11.00	10.77
5 550	-0.73	0.65	-0.08	11.00	11.08
5 670	-0.67	0.65	-0.02	11.00	11.02

5 725 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 755	0.38	0.65	1.03	30.00	28.97
5 795	0.76	0.65	1.41	30.00	28.59

* 802.11ac VHT20

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 180	2.45	0.33	2.78	11.00	8.22
5 200	2.38	0.33	2.71	11.00	8.29
5 240	3.12	0.33	3.45	11.00	7.55

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 260	1.88	0.33	2.21	11.00	8.79
5 280	2.48	0.33	2.81	11.00	8.19
5 320	2.05	0.33	2.38	11.00	8.62

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 500	2.18	0.33	2.51	11.00	8.49
5 580	2.62	0.33	2.95	11.00	8.05
5 700	3.18	0.33	3.51	11.00	7.49

5 725 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 745	3.33	0.33	3.66	30.00	26.34
5 765	3.47	0.33	3.80	30.00	26.20
5 805	3.68	0.33	4.01	30.00	25.99

* 802.11ac VHT40

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 190	-0.22	0.66	0.44	11.00	10.56
5 230	-0.17	0.66	0.49	11.00	10.51

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 270	-0.72	0.66	-0.06	11.00	11.06
5 310	-0.32	0.66	0.34	11.00	10.66

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 510	-0.36	0.66	0.30	11.00	10.70
5 550	-0.92	0.66	-0.26	11.00	11.26
5 670	0.04	0.66	0.70	11.00	10.30

5 725 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 755	0.33	0.66	0.99	30.00	29.01
5 795	0.30	0.66	0.96	30.00	29.04

* 802.11ac HT80

5 150 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 210	-3.24	1.38	-1.86	11.00	12.86

5 250 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 290	-3.88	1.38	-2.50	11.00	13.50

5 470 Band

Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 530	-3.82	1.38	-2.44	11.00	13.44

5 725 Band

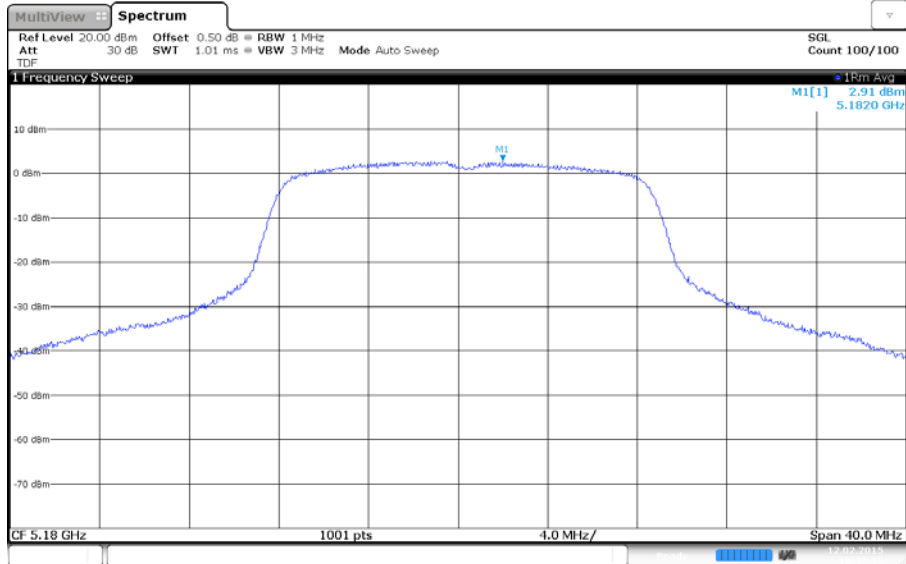
Frequency [MHz]	Reading [dBm]	Duty Cycle [dB]	Total result [dBm]	Limit [dBm]	Margin [dB]
5 775	-2.15	1.38	-0.77	30.00	30.77

5.4.4 Test Plot

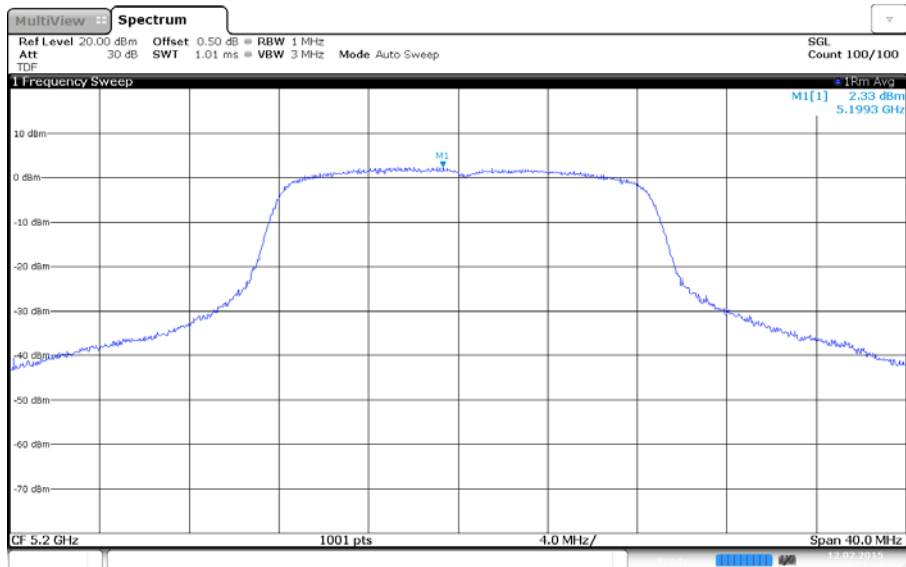
Figure 2. Plot of the Power Spectral Density

* 802.11a_5 150 Band

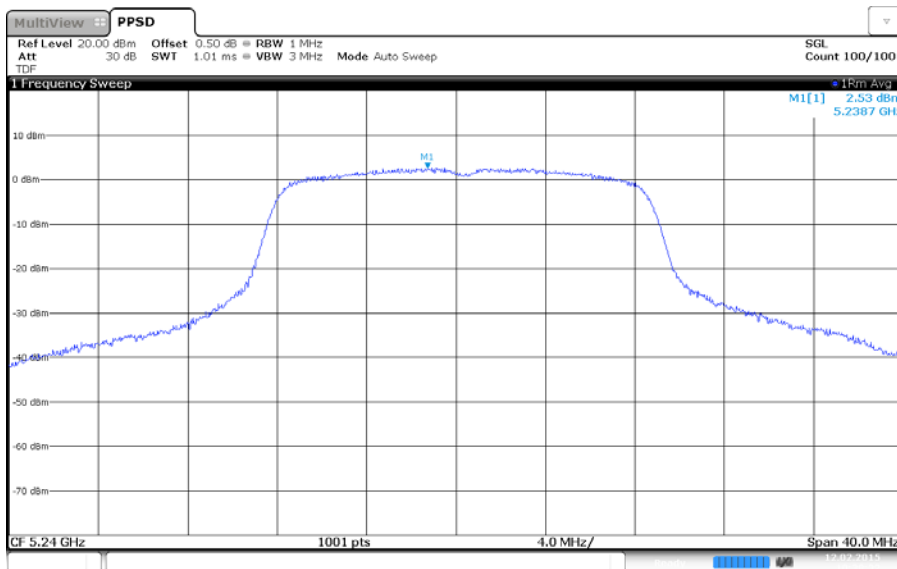
-5 180 MHz



-5 200 MHz

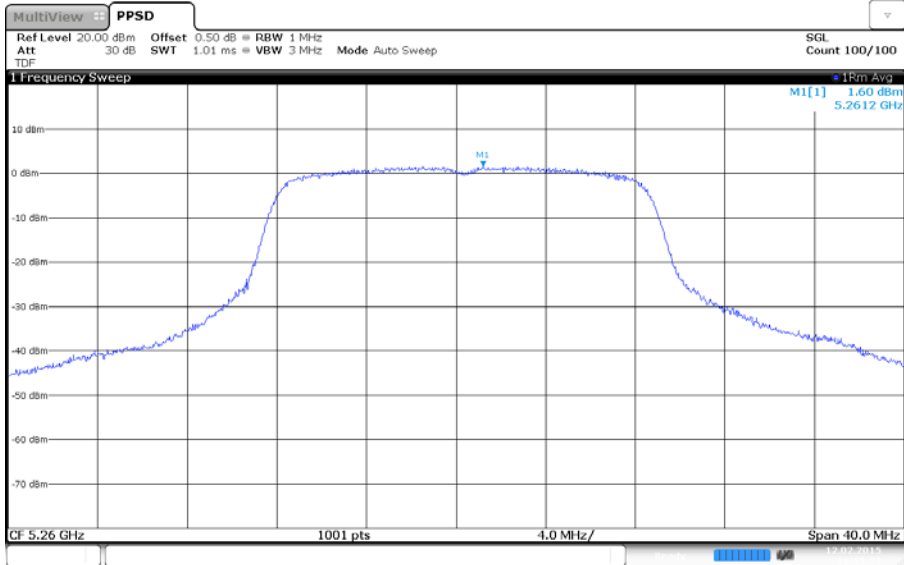


-5 240 MHz

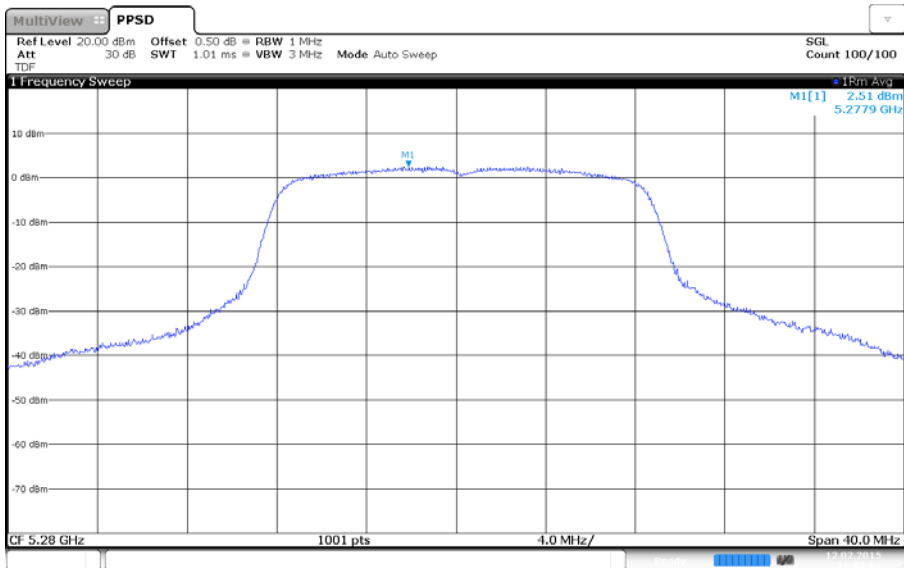


* 802.11a_5 250 Band

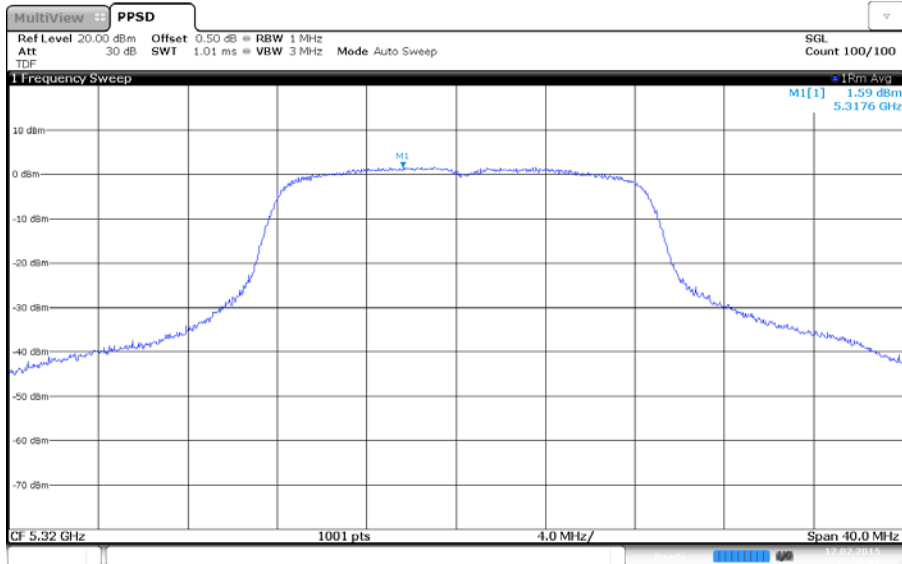
-5 260 MHz



-5 280 MHz

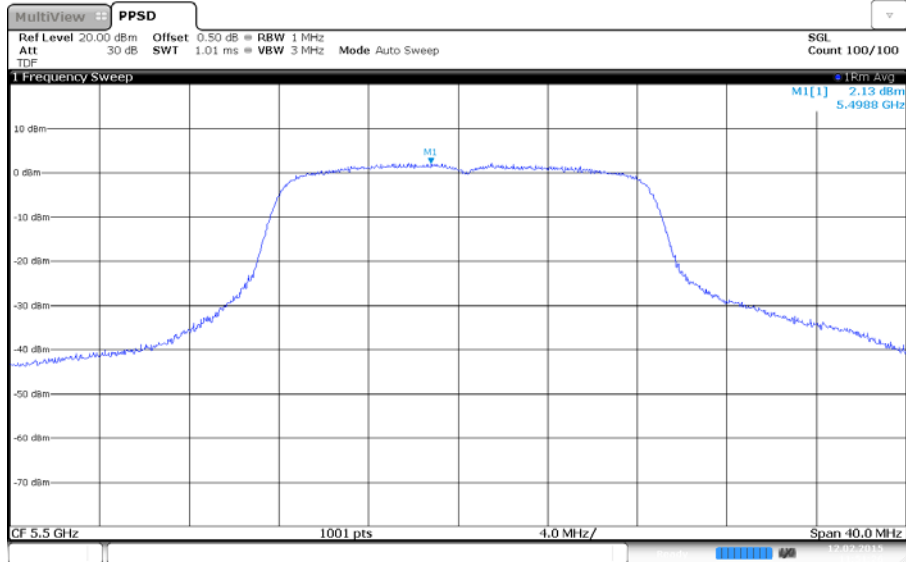


-5 320 MHz

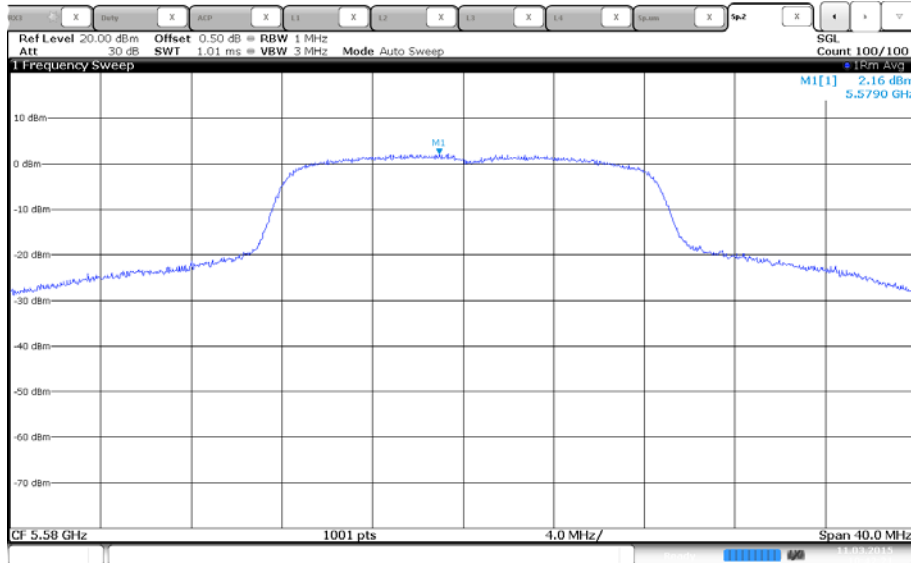


* 802.11a_5 470 Band

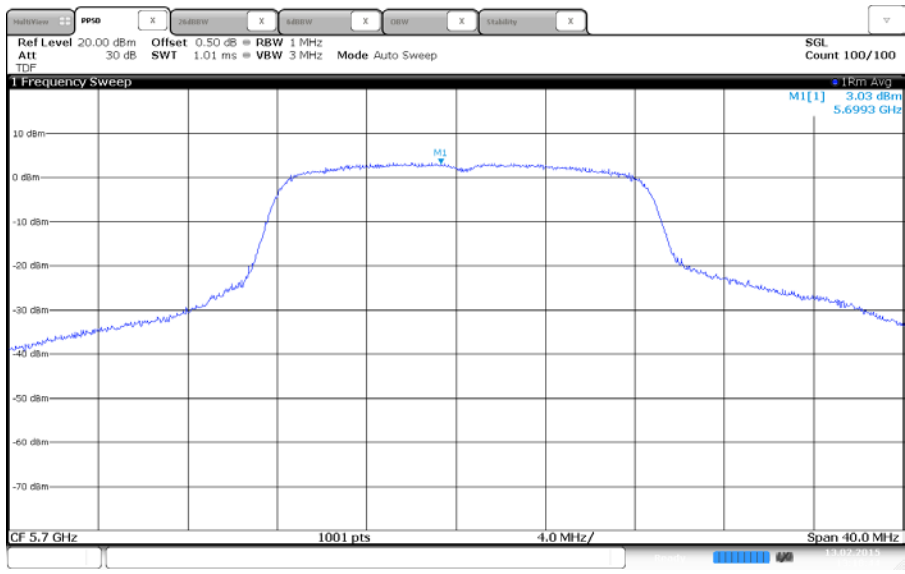
-5 500 MHz



-5 580 MHz

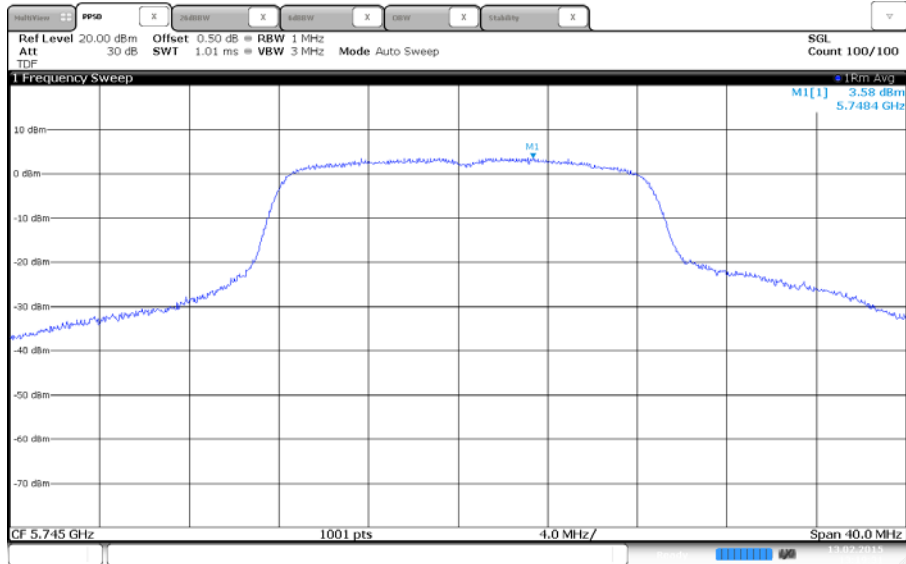


-5 700 MHz

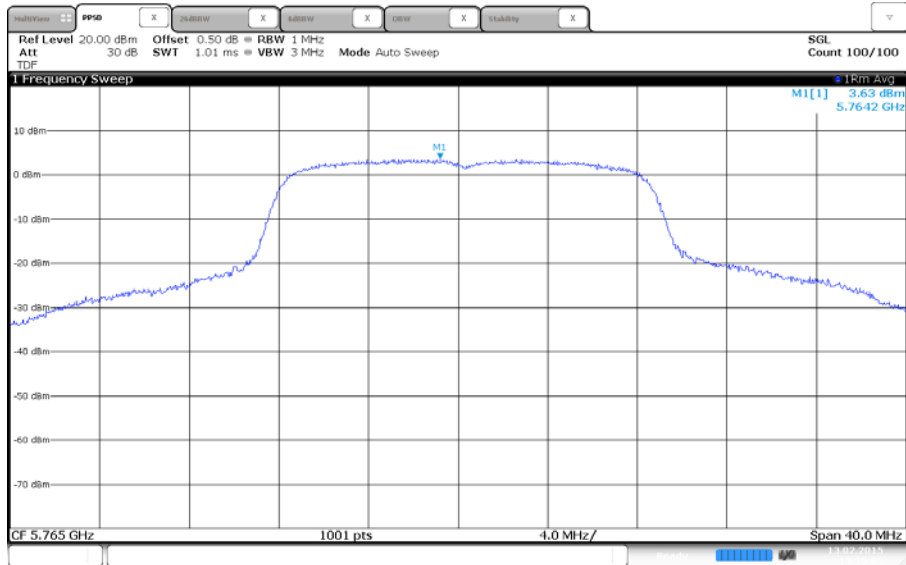


* 802.11a_5 725 Band

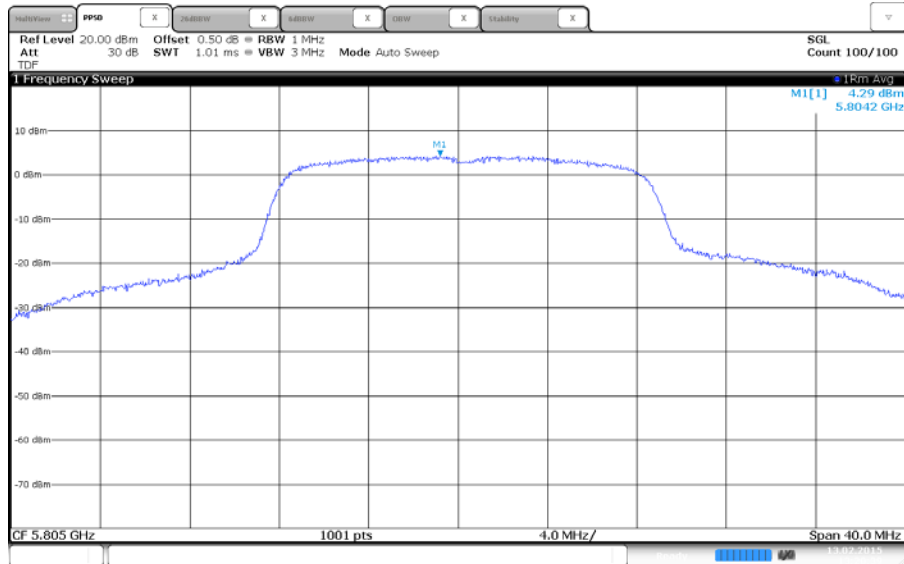
-5 745 MHz



-5 765 MHz

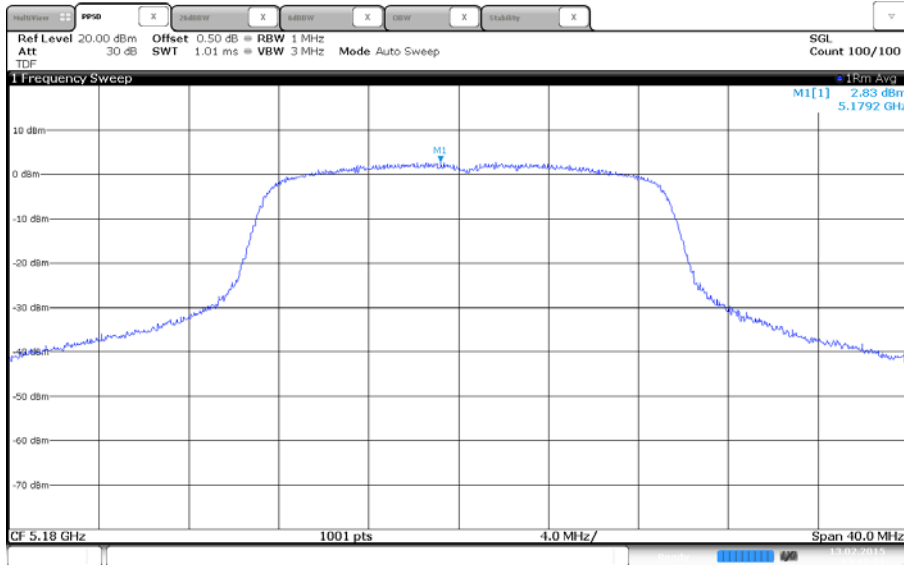


-5 805 MHz

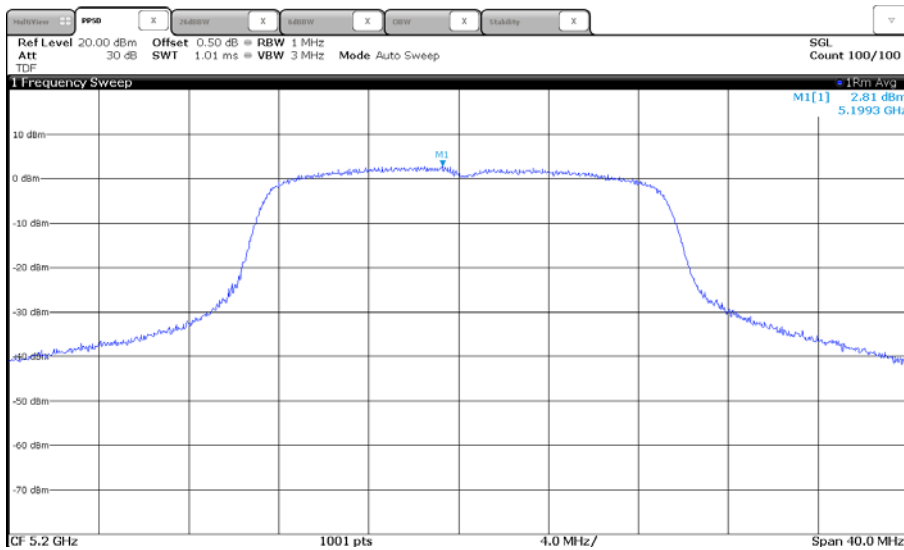


* 802.11n HT20_5 150 Band

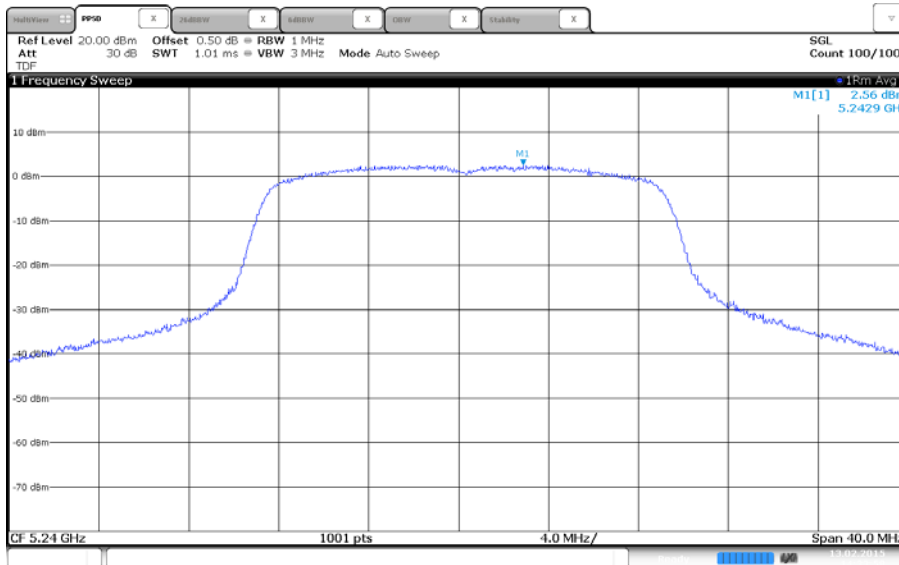
-5 180 MHz



-5 200 MHz

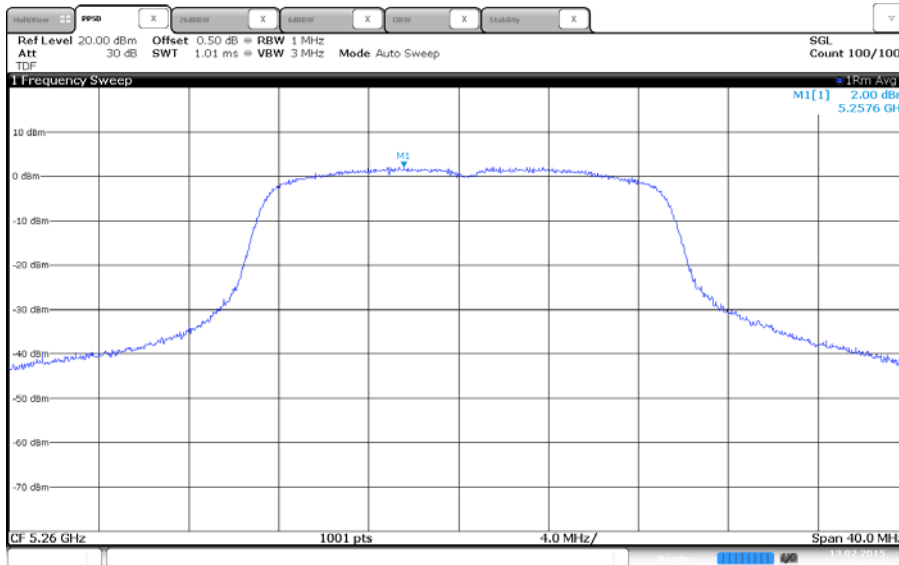


-5 240 MHz

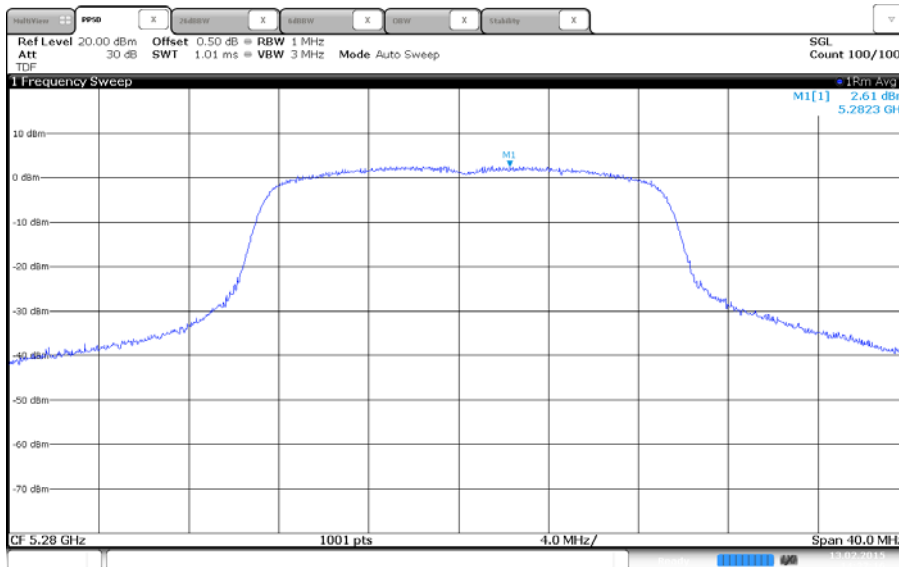


* 802.11n HT20_5 250 Band

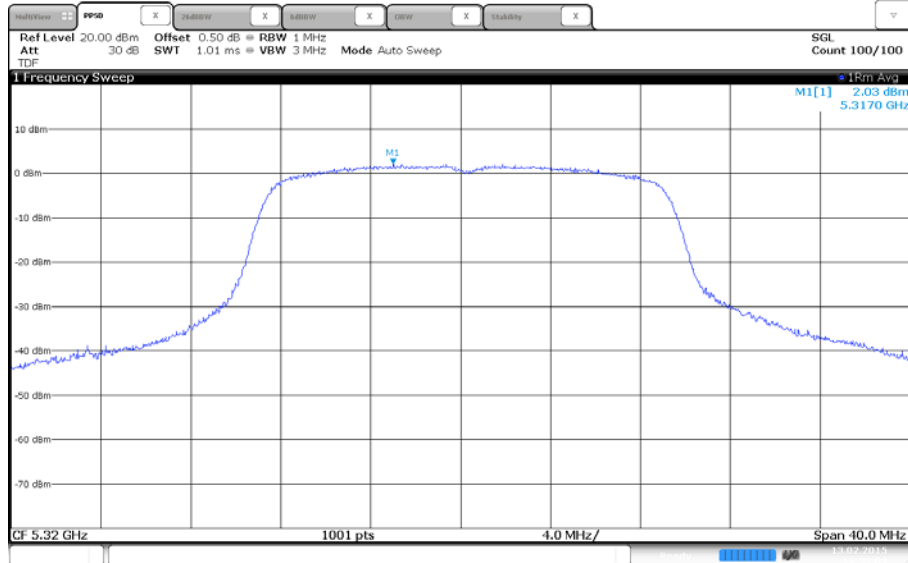
-5 260 MHz



-5 280 MHz

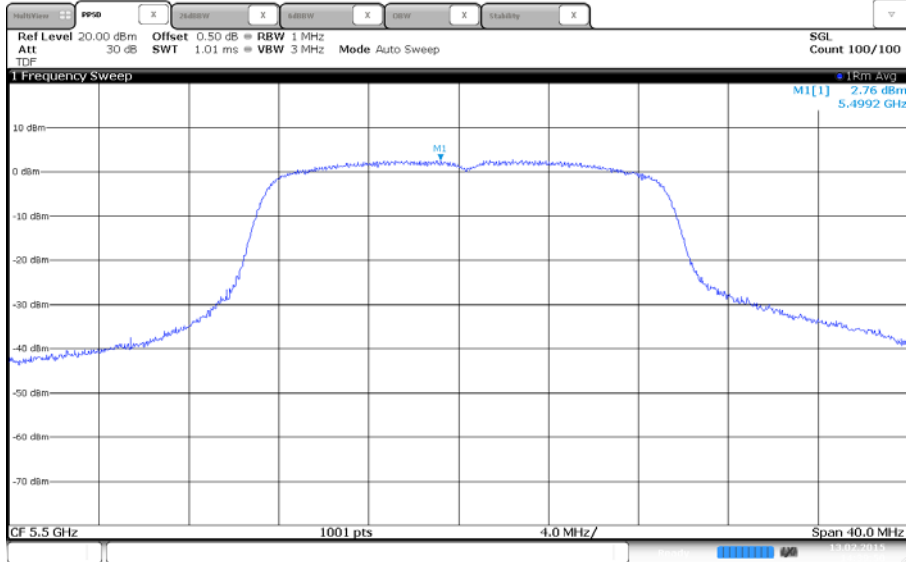


-5 320 MHz

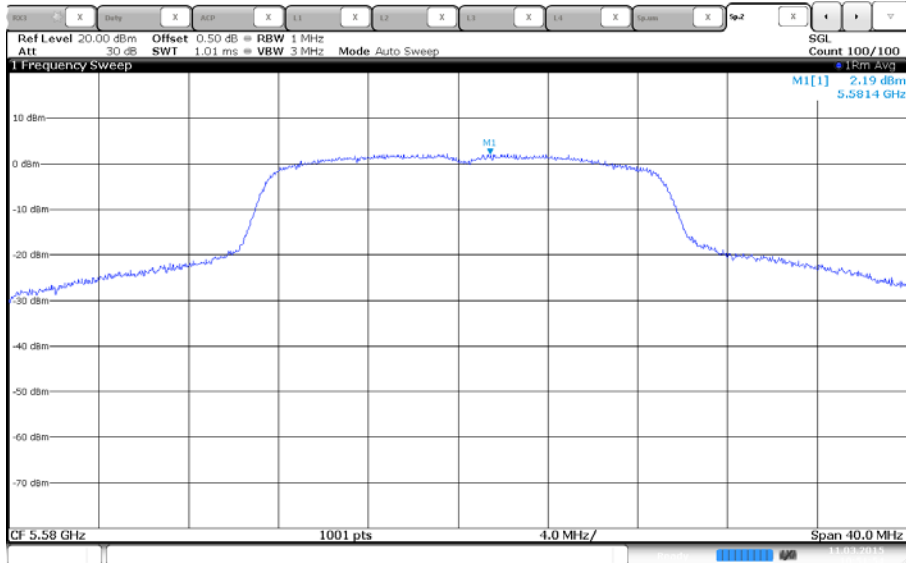


* 802.11n HT20_5 470 Band

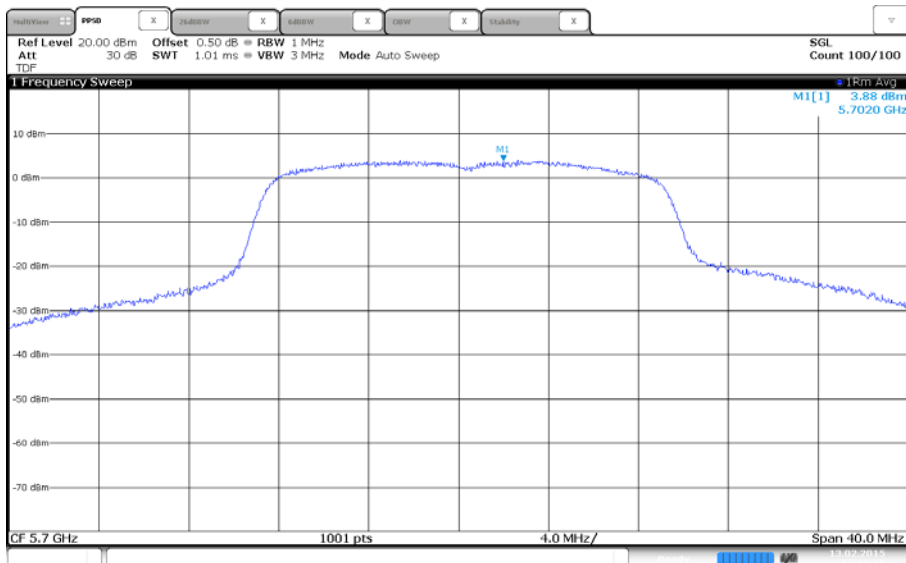
-5 500 MHz



-5 580 MHz

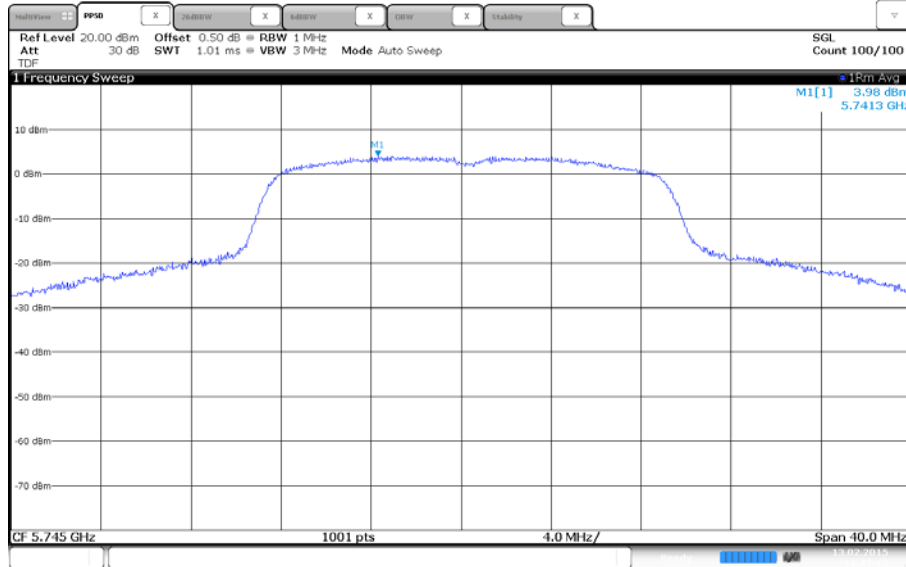


-5 700 MHz

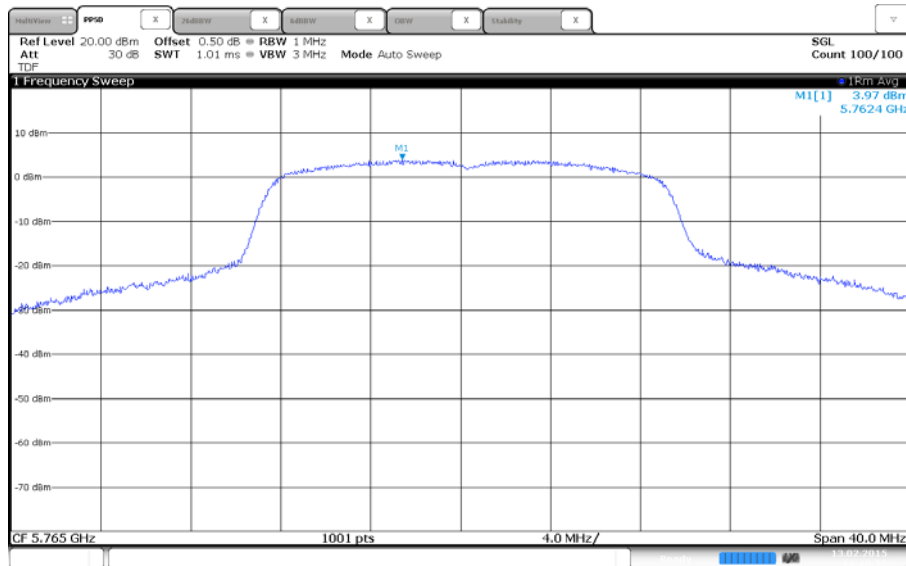


* 802.11n HT20_5 725 Band

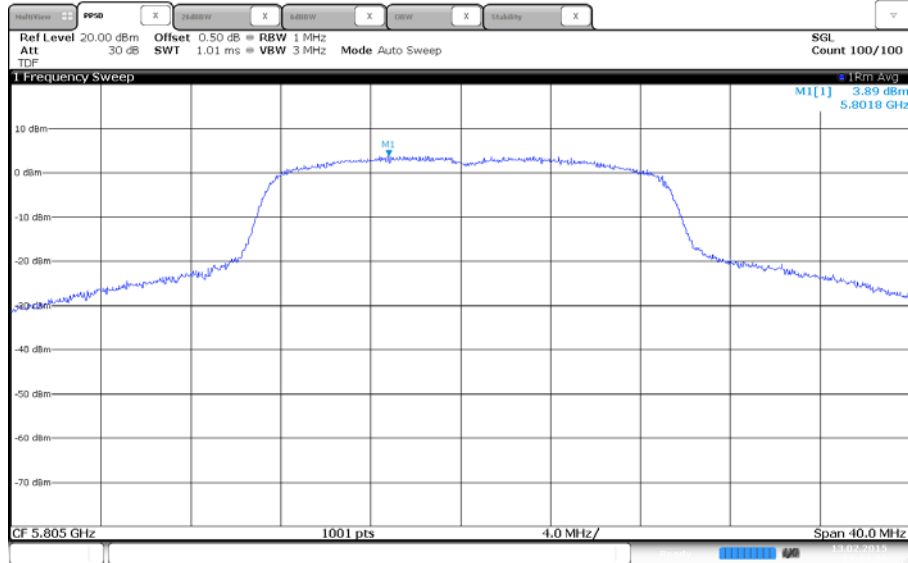
-5 745 MHz



-5 765 MHz

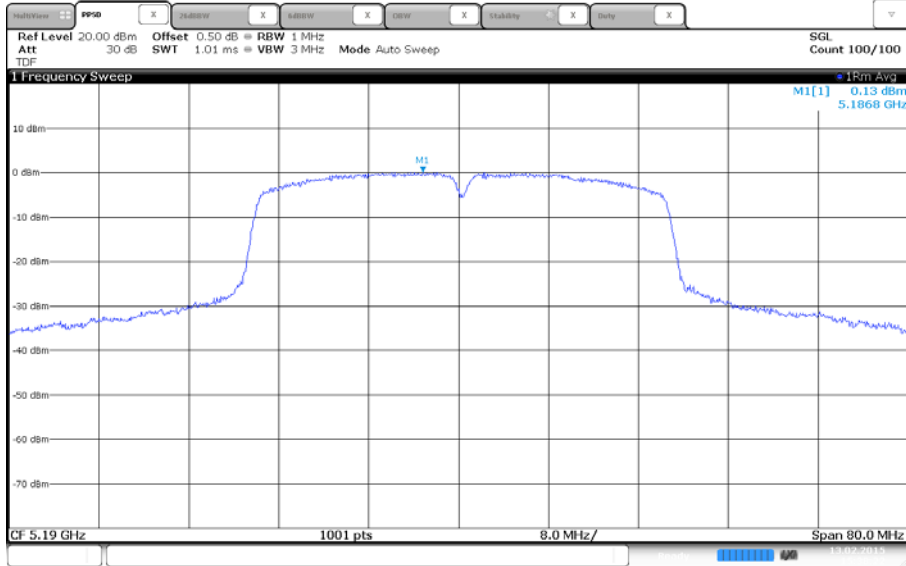


-5 805 MHz

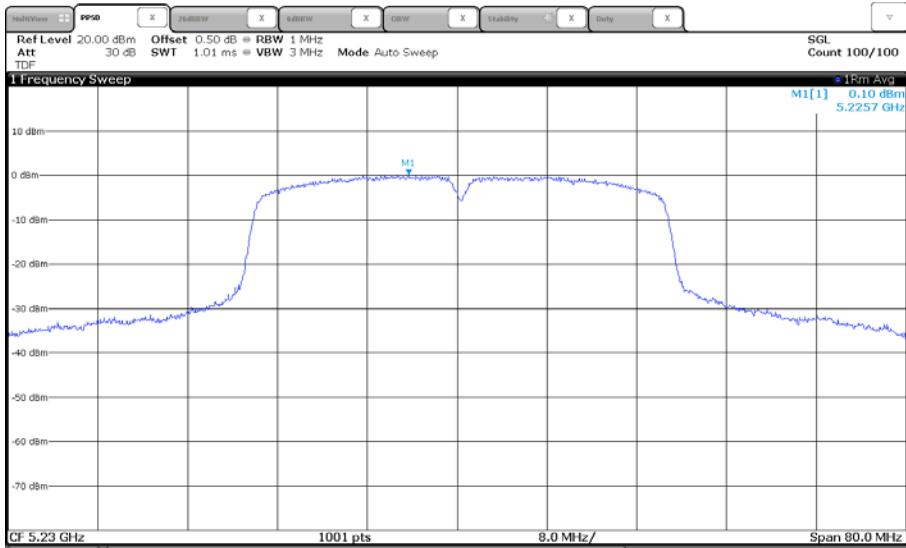


* 802.11n HT40_5 150 Band

-5 190 MHz

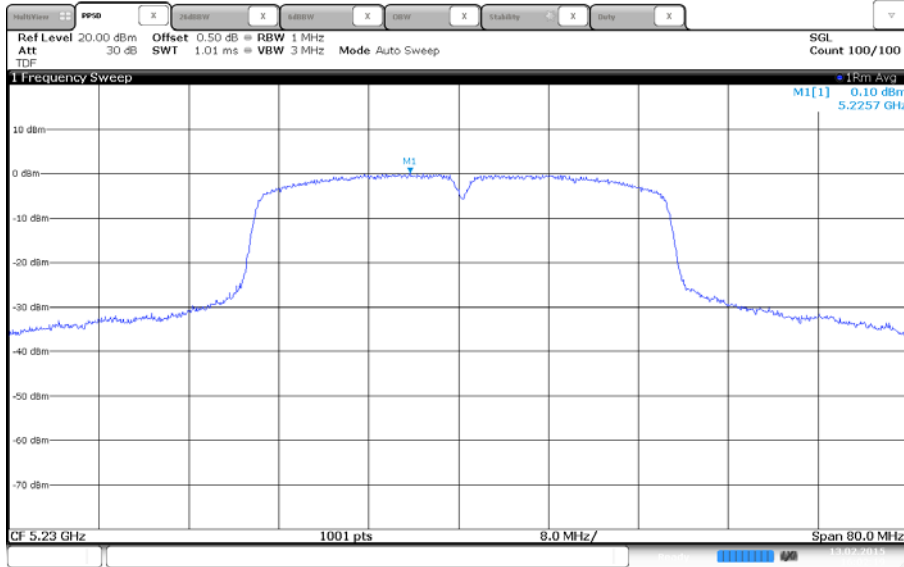


-5 230 MHz

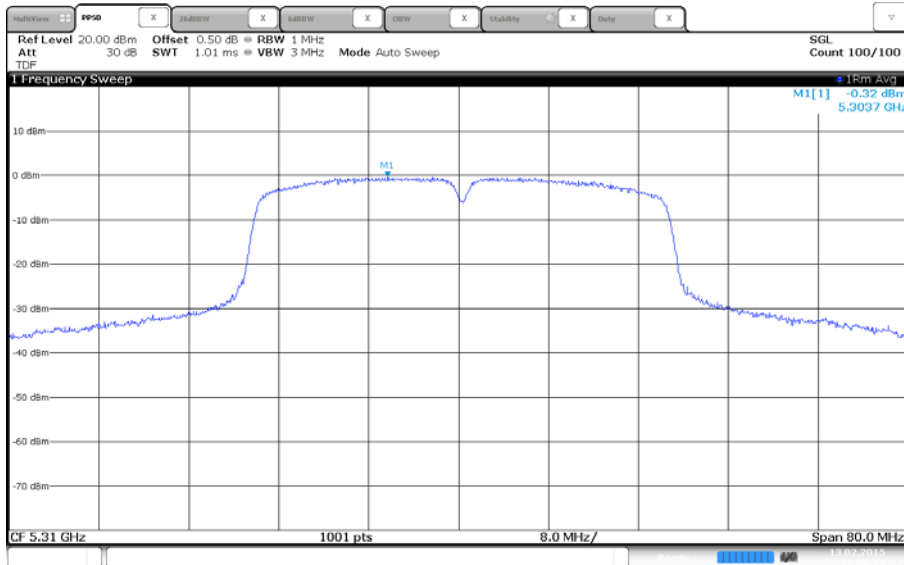


* 802.11n HT40_5 250 Band

-5 270 MHz

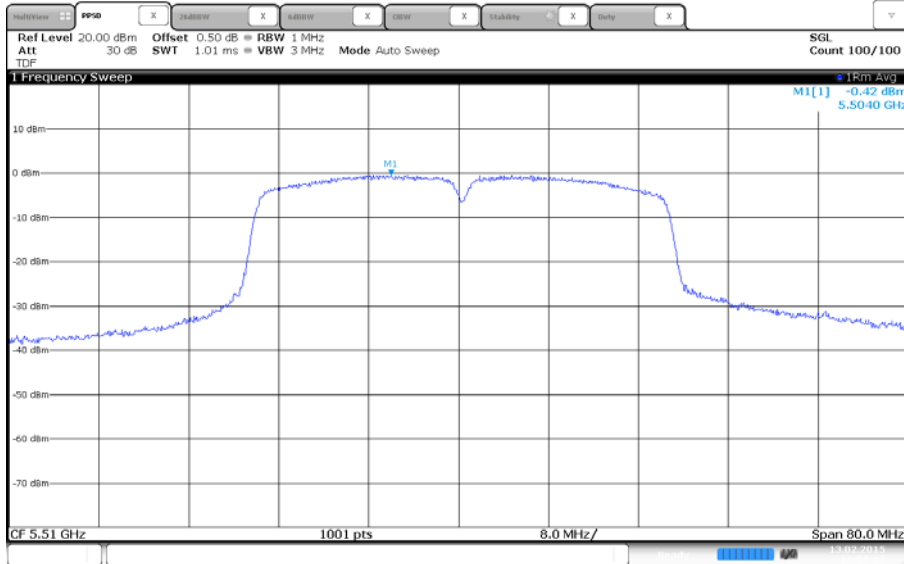


-5 310 MHz

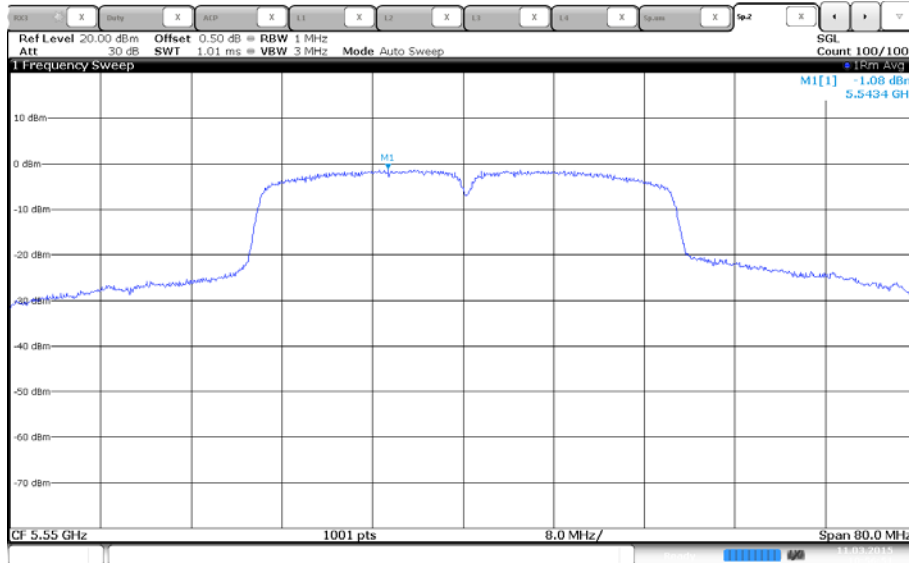


* 802.11n HT40_5 470 Band

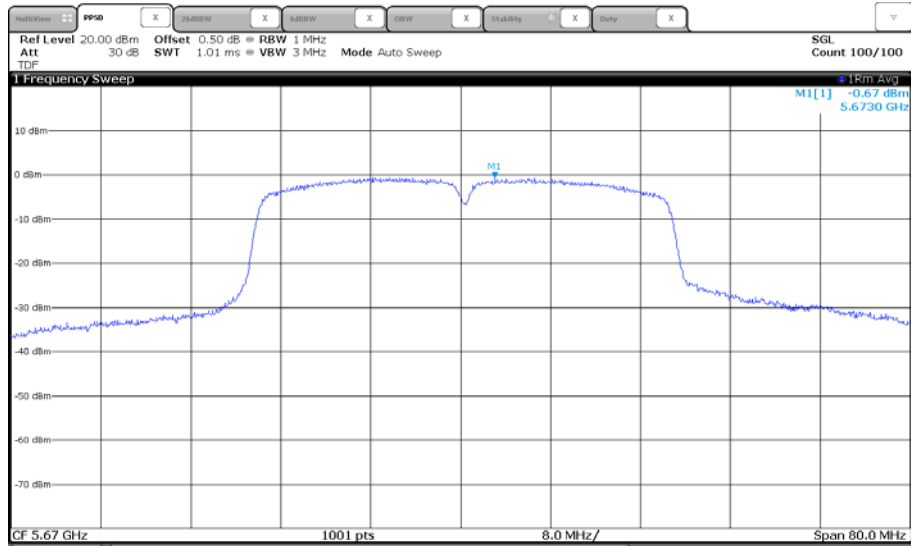
-5 510 MHz



-5 550 MHz

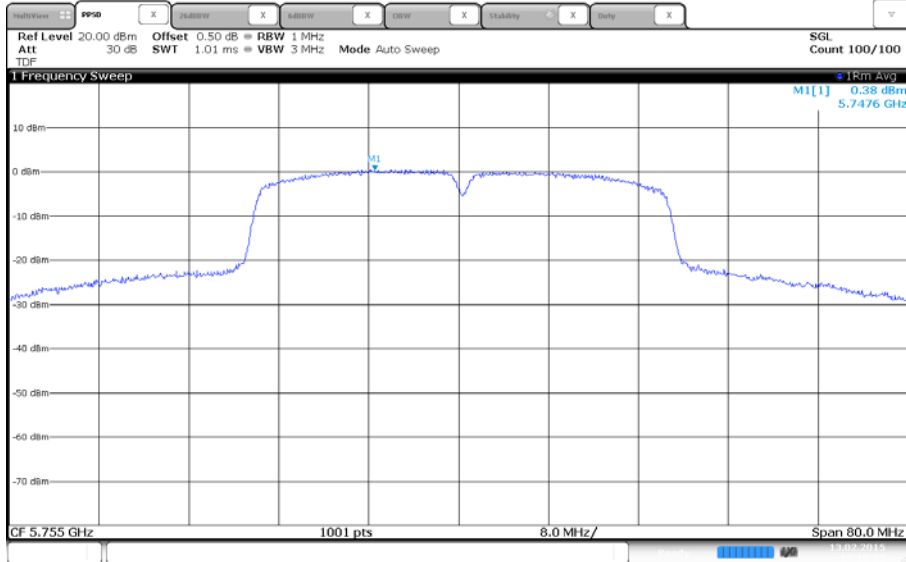


-5 670 MHz

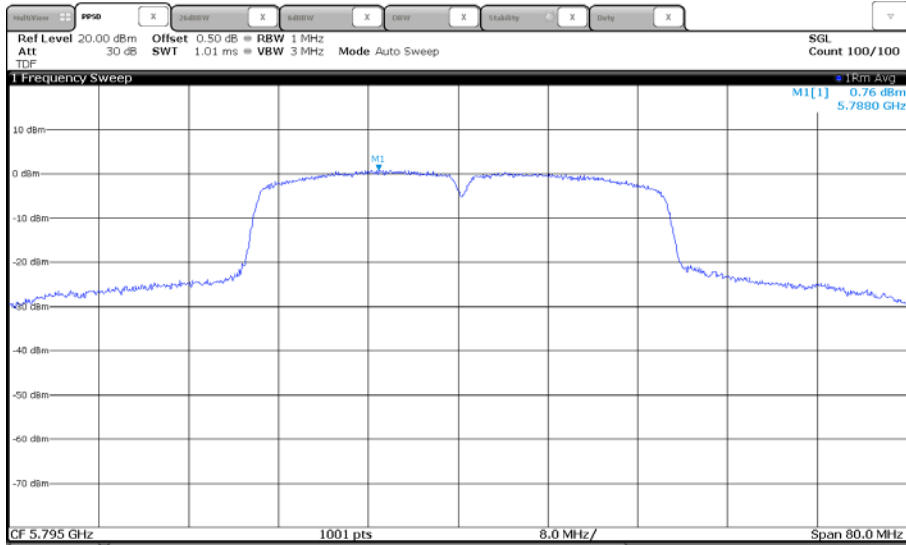


* 802.11n HT40_5 725 Band

-5 755 MHz

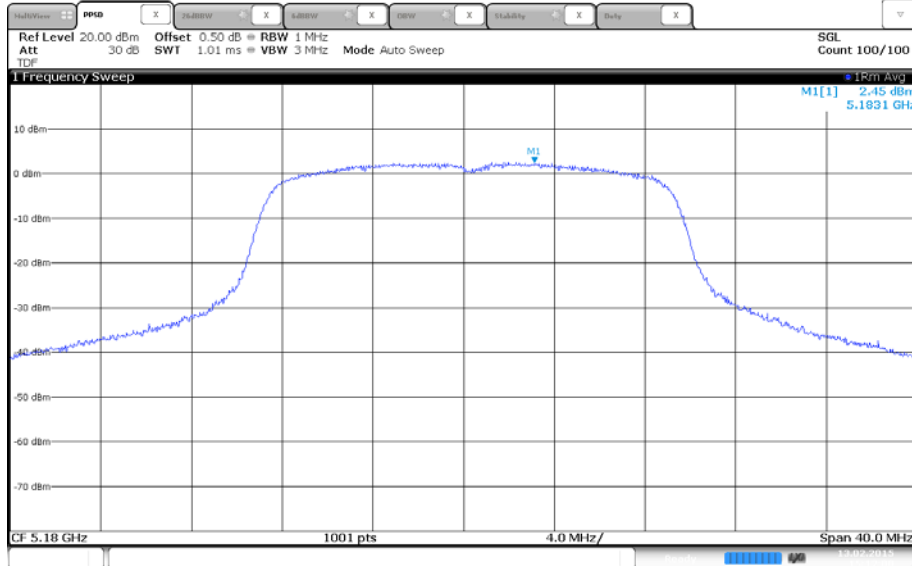


-5 795 MHz

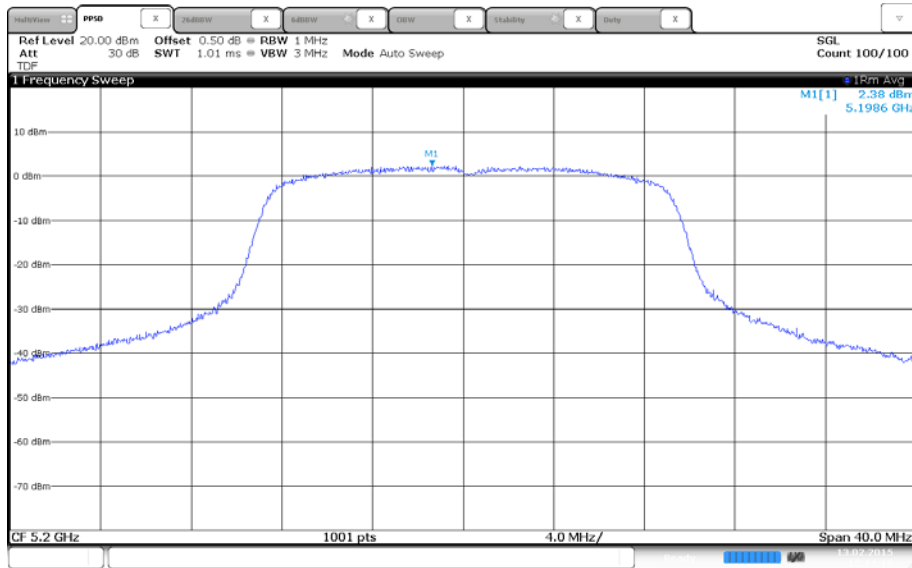


* 802.11ac VHT20_5 150 Band

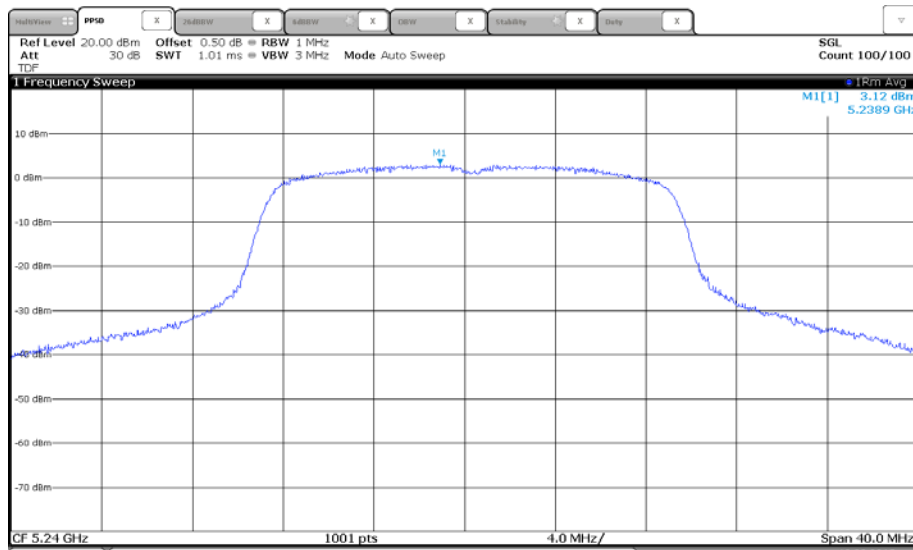
-5 180 MHz



-5 200 MHz

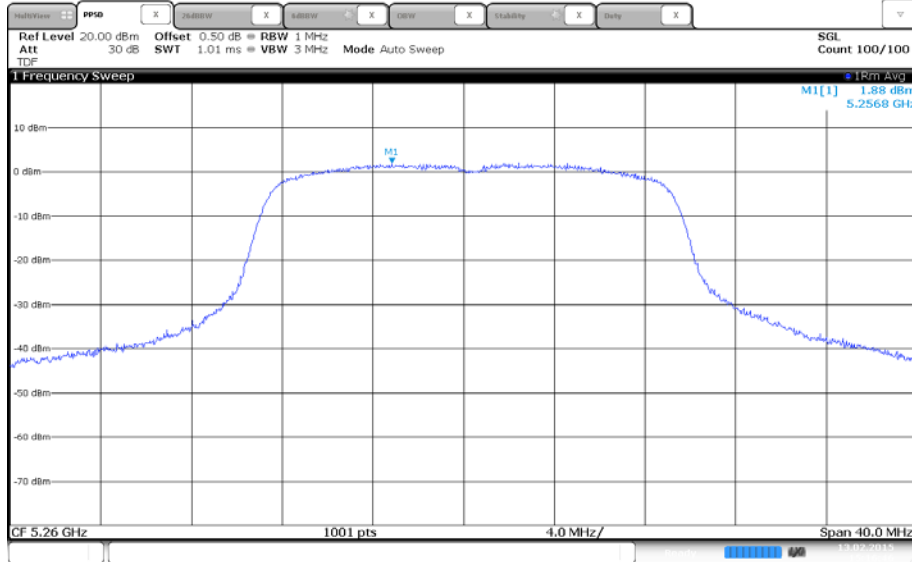


-5 240 MHz

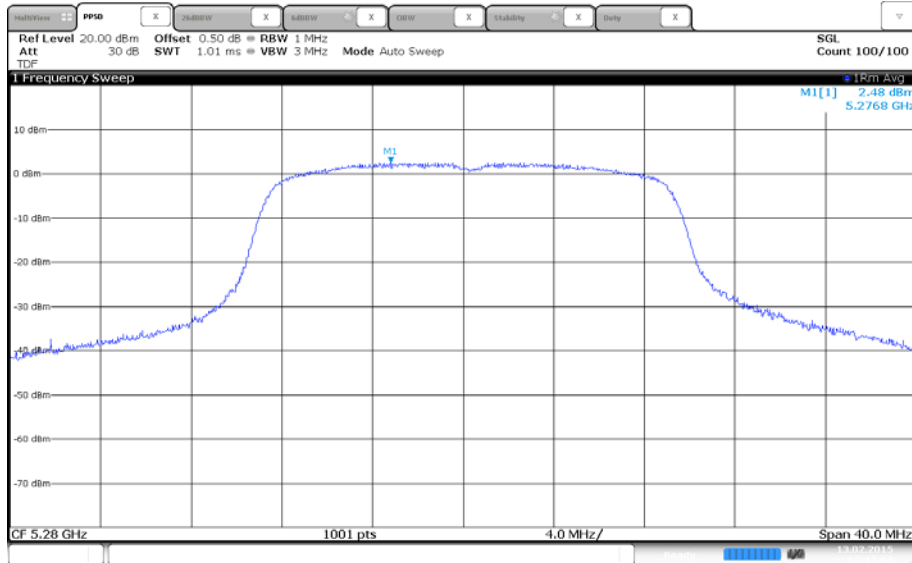


* 802.11ac VHT20_5 250 Band

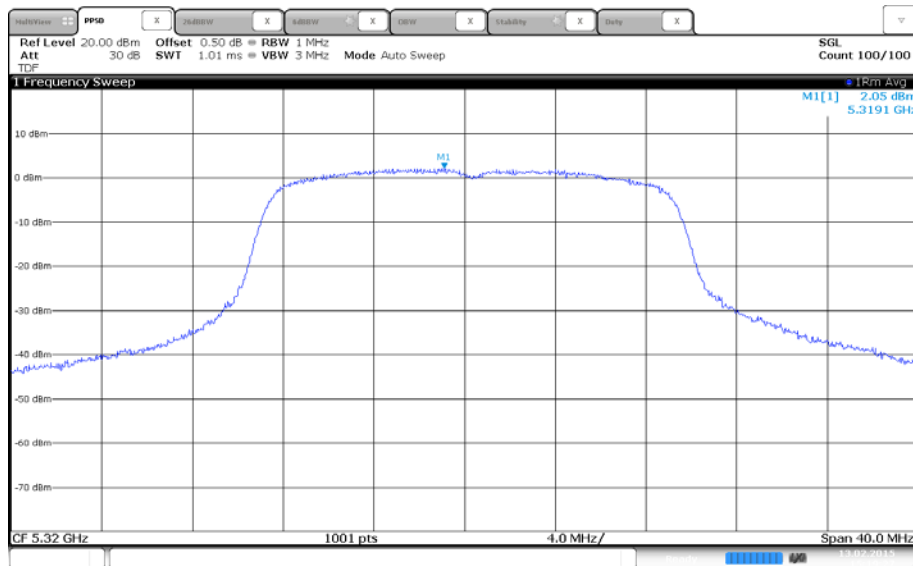
-5 260 MHz



-5 280 MHz

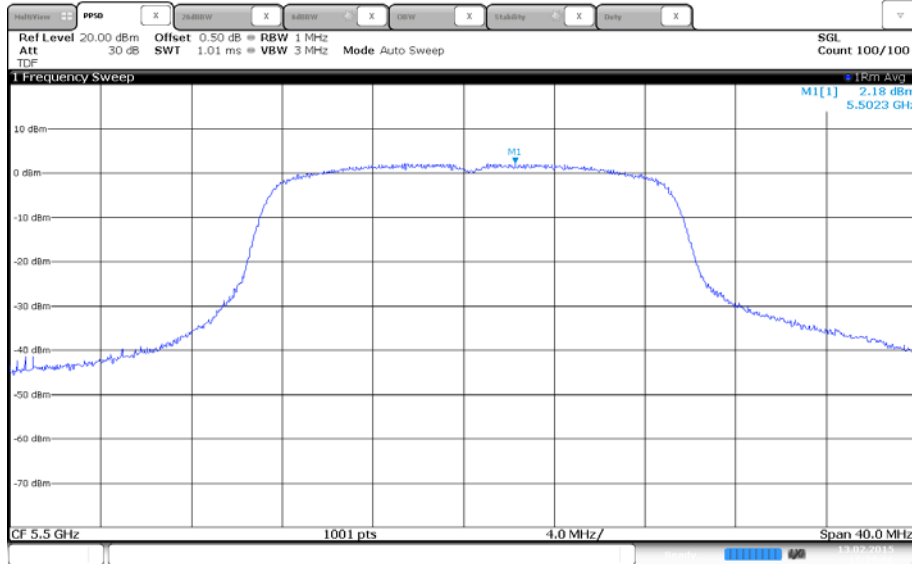


-5 320 MHz

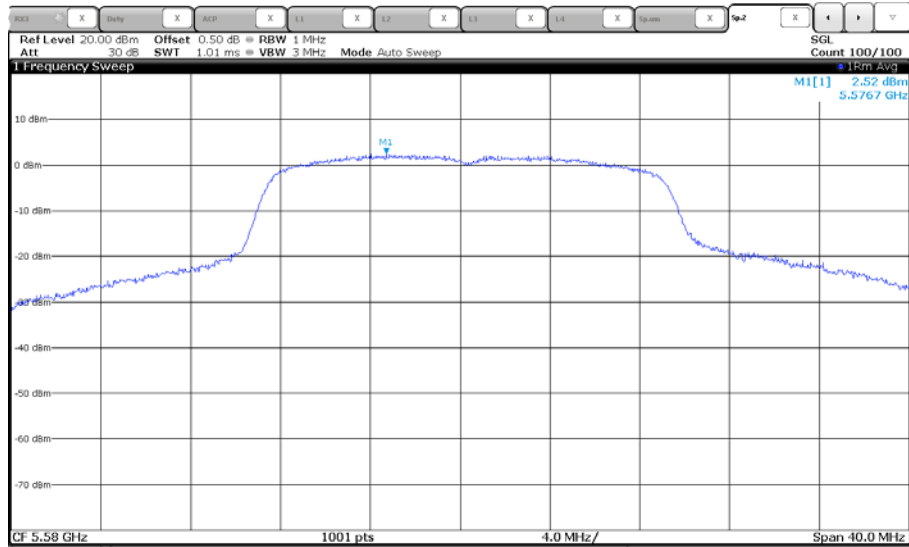


* 802.11ac VHT20_5 470 Band

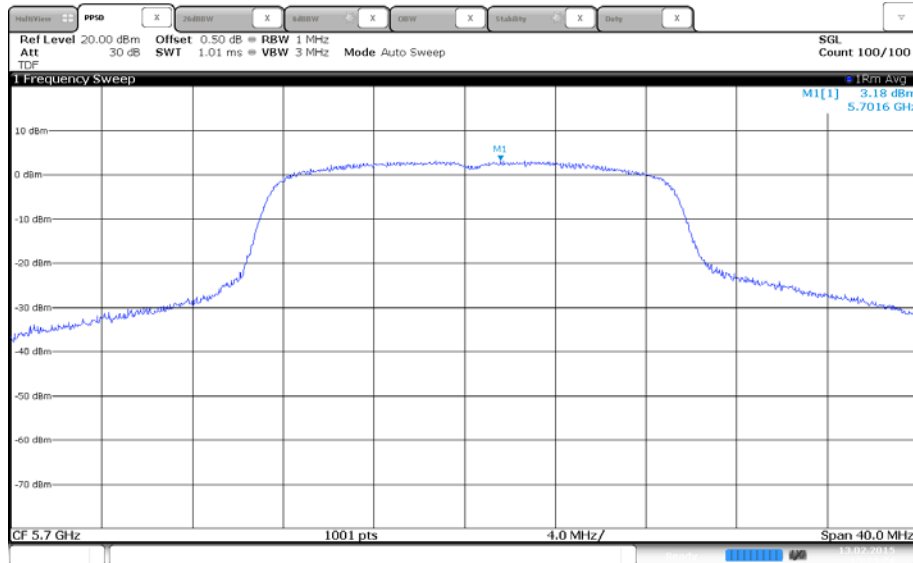
-5 500 MHz



-5 580 MHz

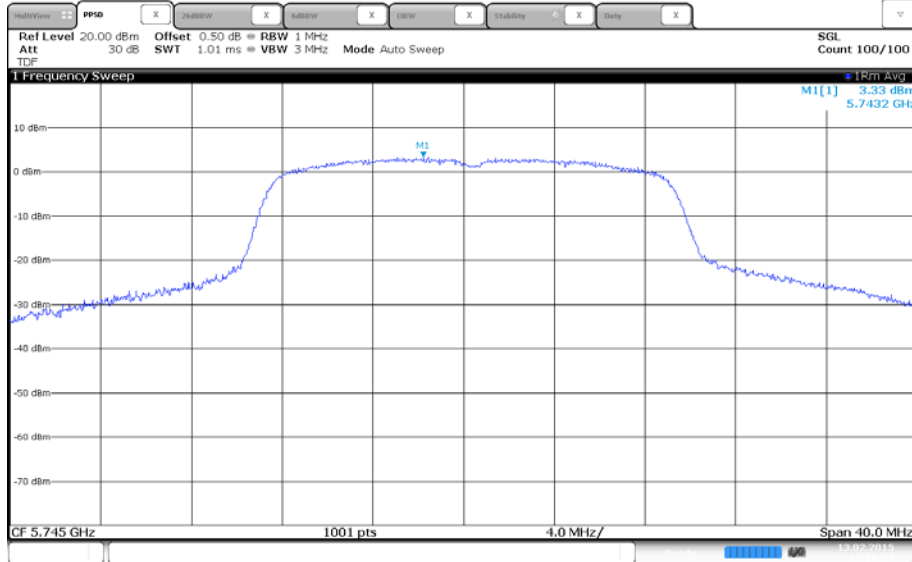


-5 700 MHz

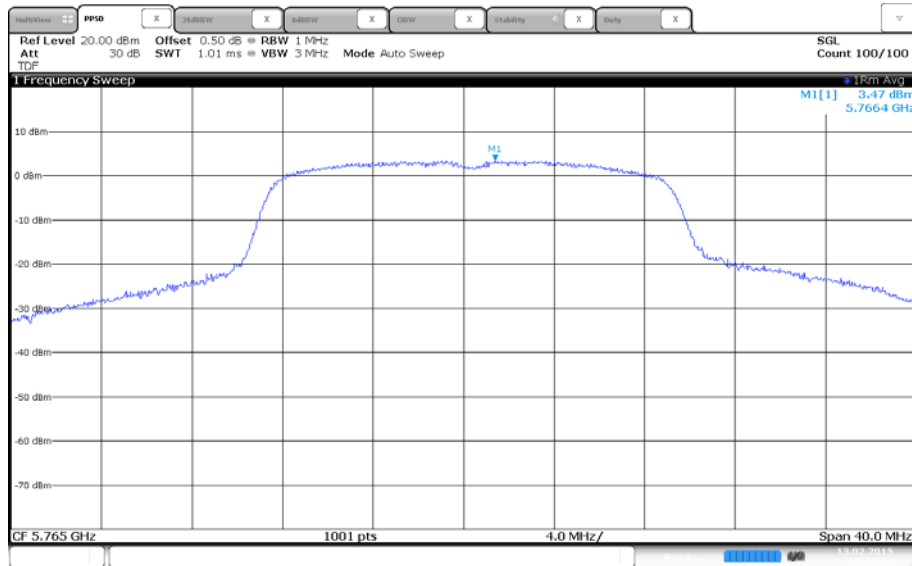


* 802.11ac VHT20_5 725 Band

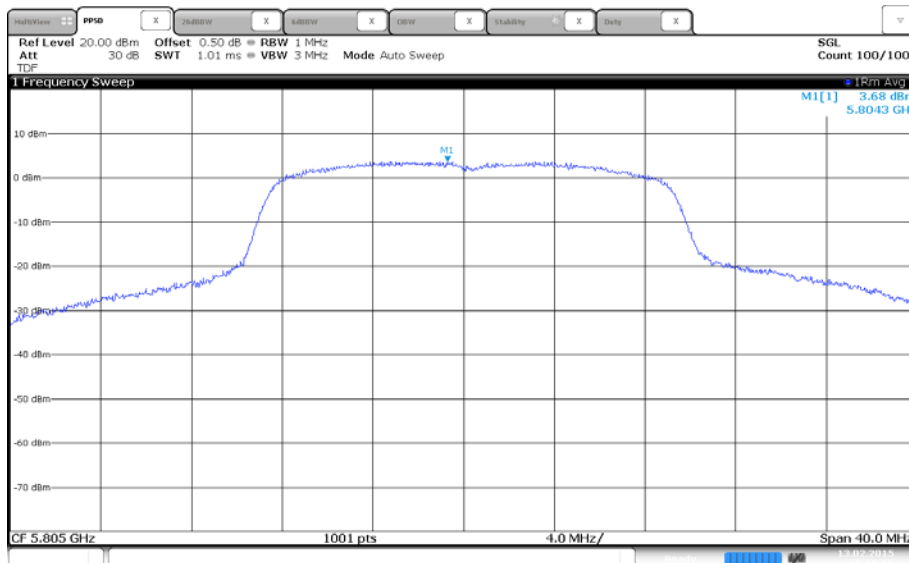
-5 745 MHz



-5 765 MHz

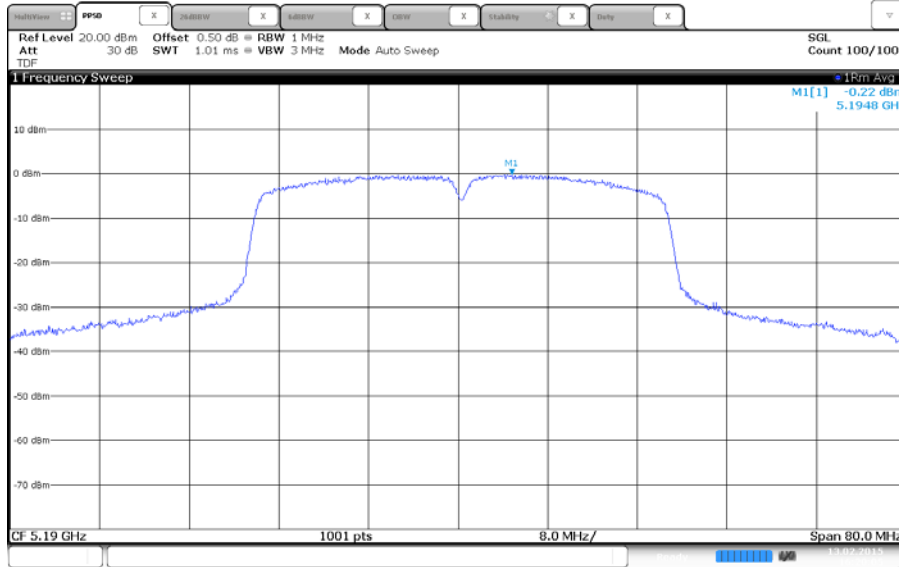


-5 805 MHz

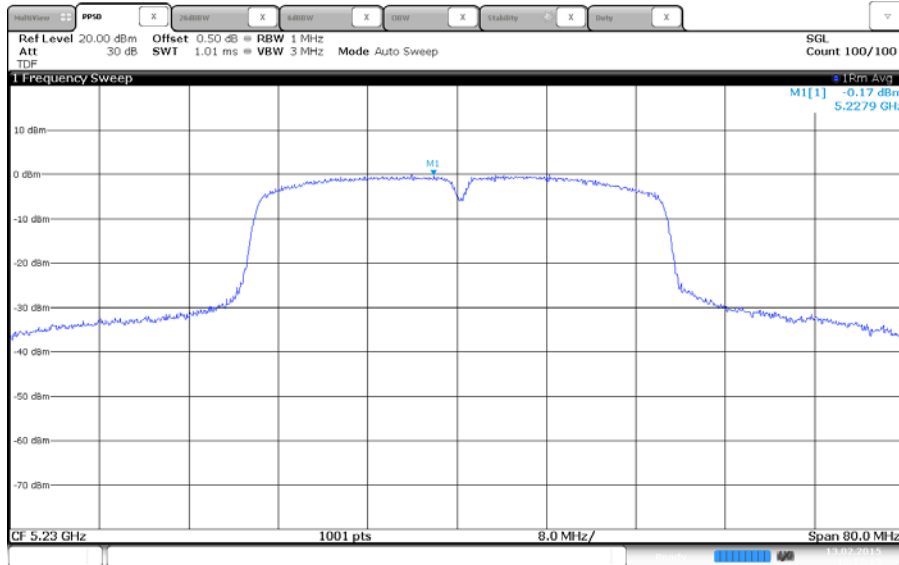


* 802.11ac VHT40_5 150 Band

-5 190 MHz

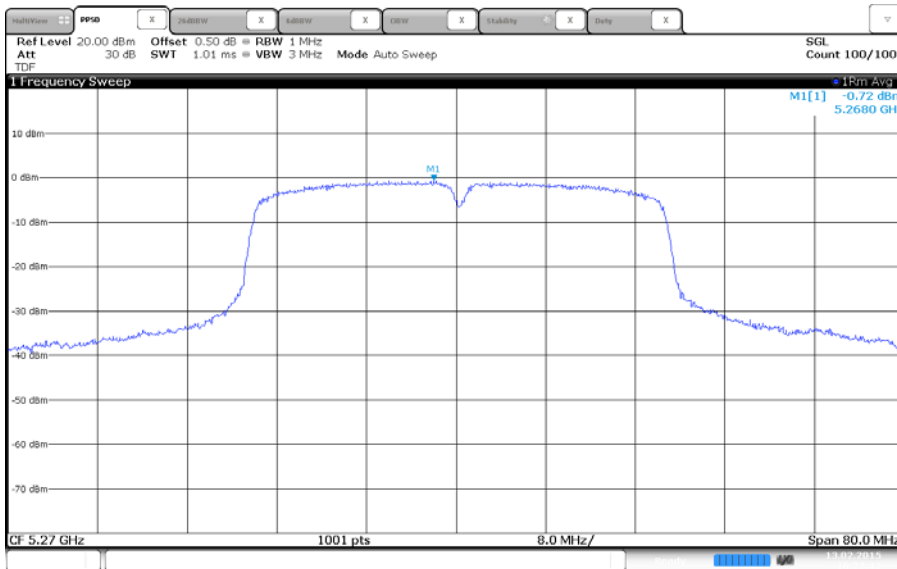


-5 230 MHz

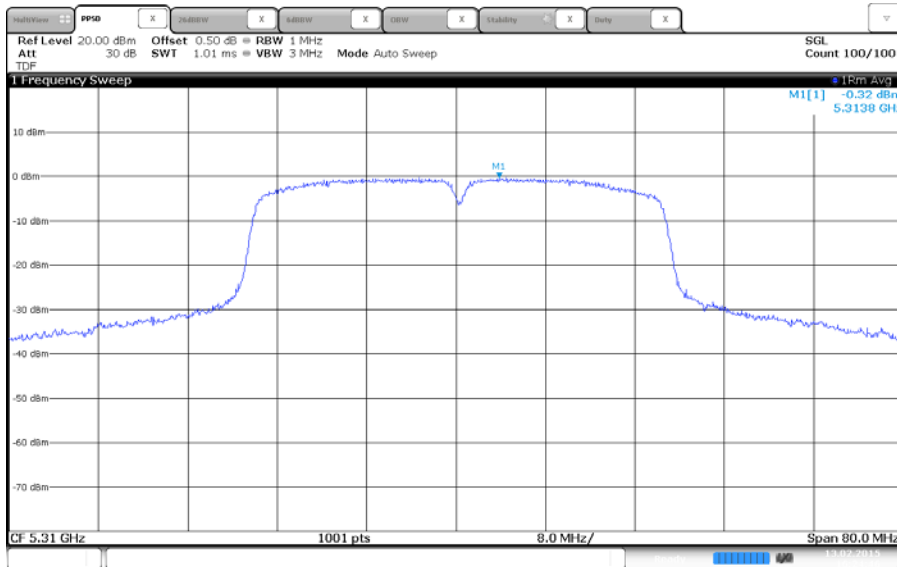


* 802.11ac VHT40_5 250 Band

-5 270 MHz

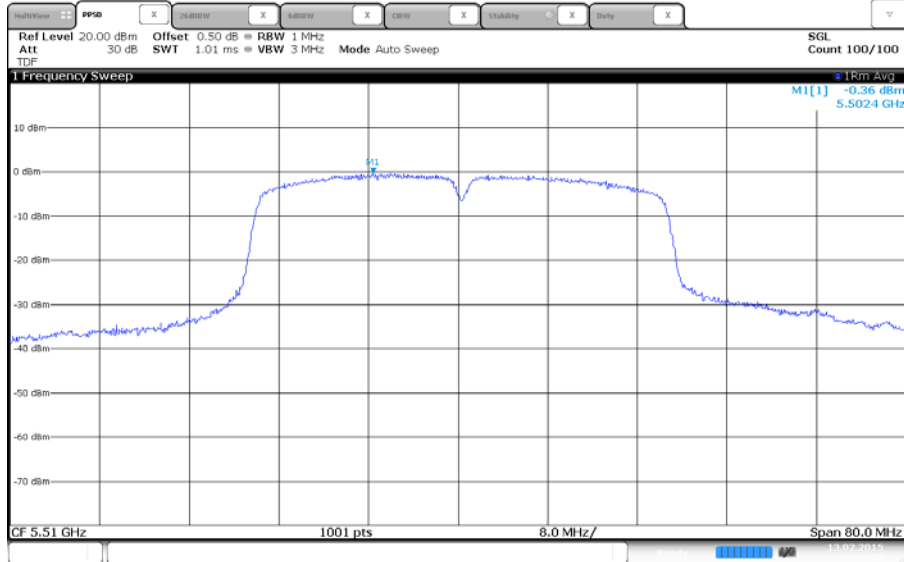


-5 310 MHz

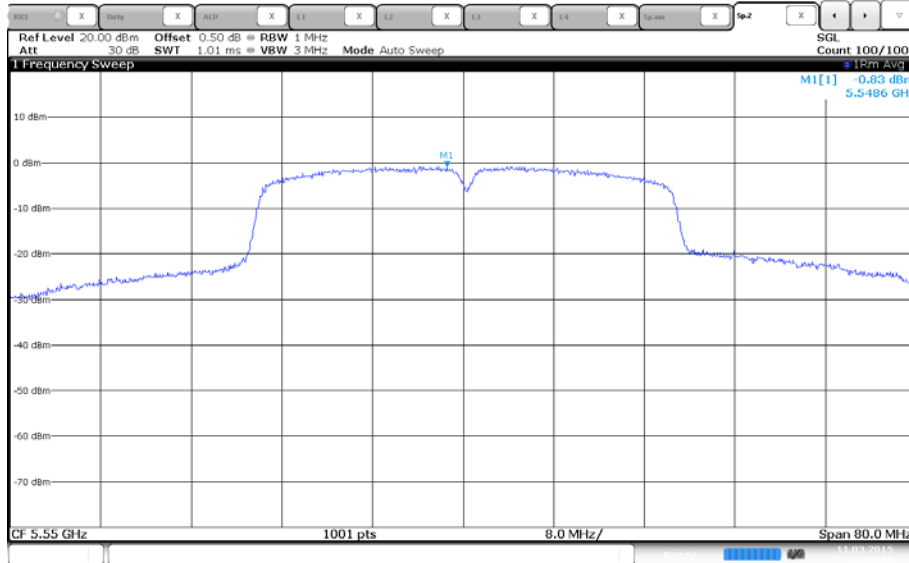


* 802.11ac VHT40_5 470 Band

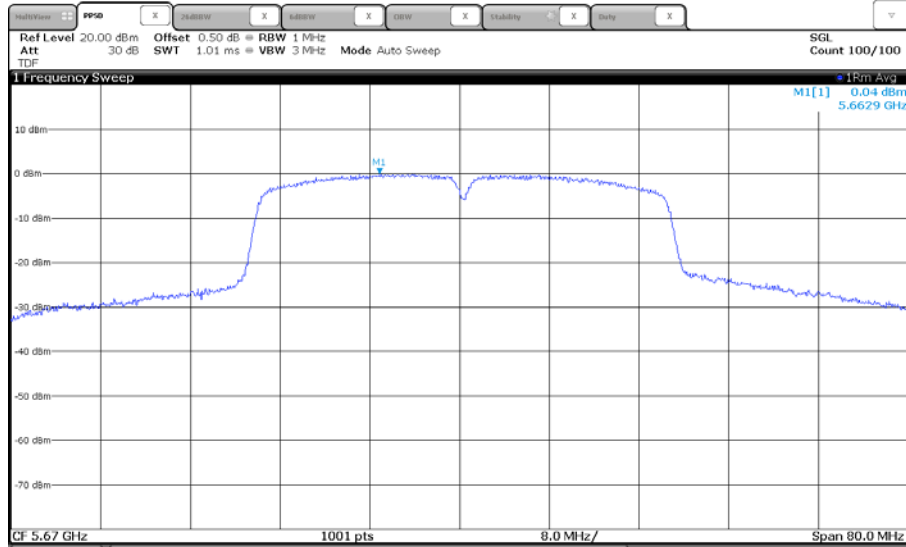
-5 510 MHz



-5 550 MHz

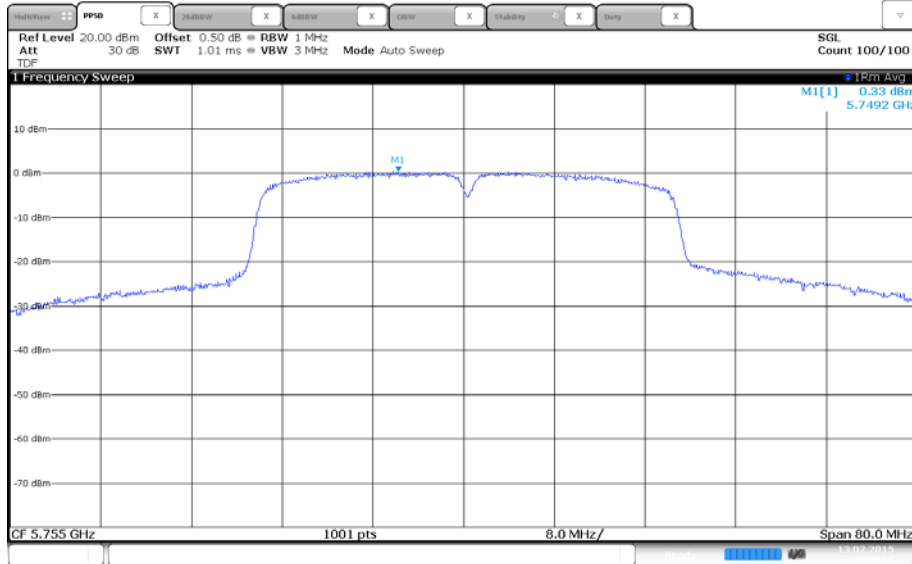


-5 670 MHz

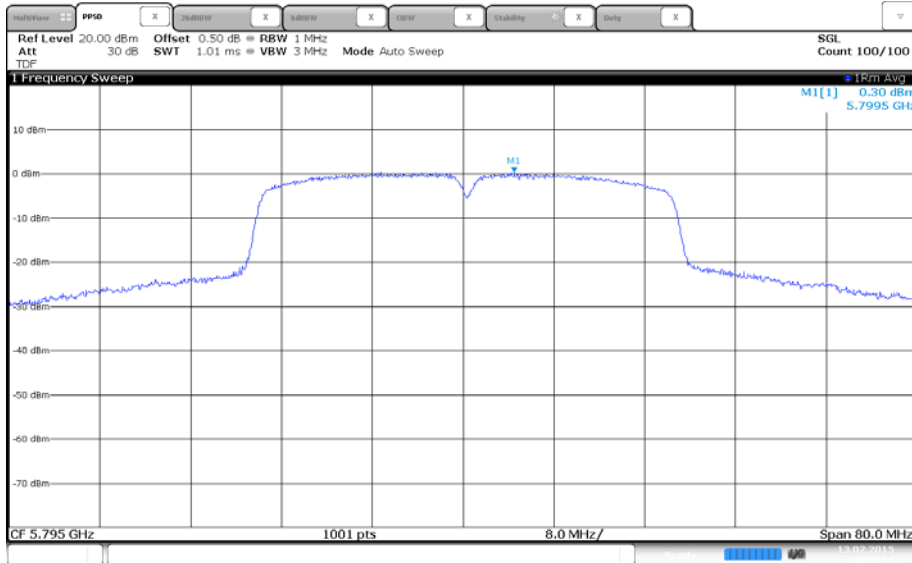


* 802.11ac VHT40_5 725 Band

-5 755 MHz

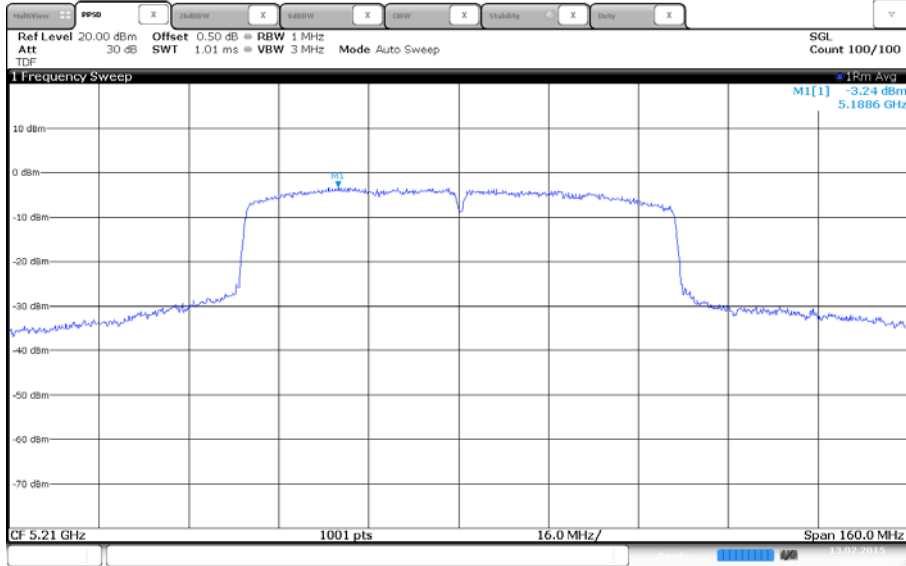


-5 795 MHz



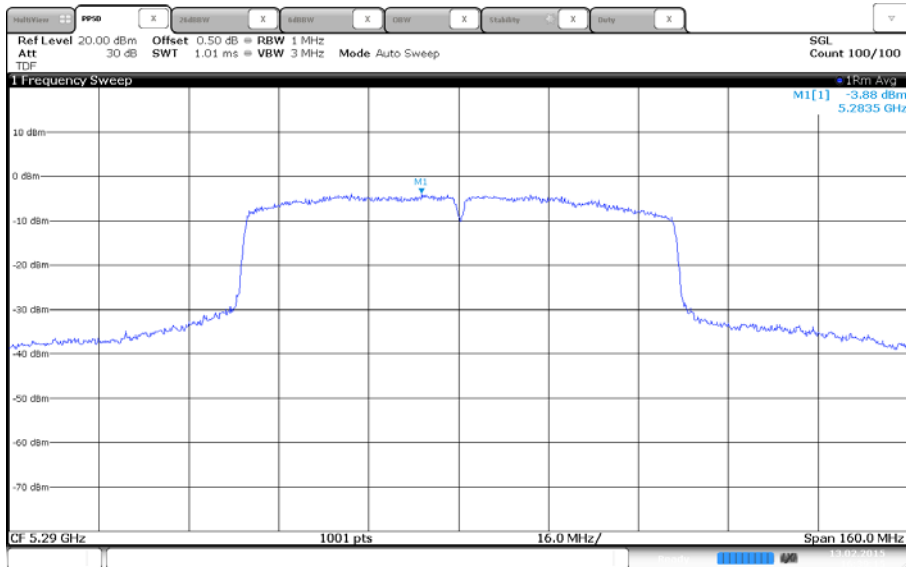
* 802.11ac VHT80_5 150 Band

-5 210 MHz



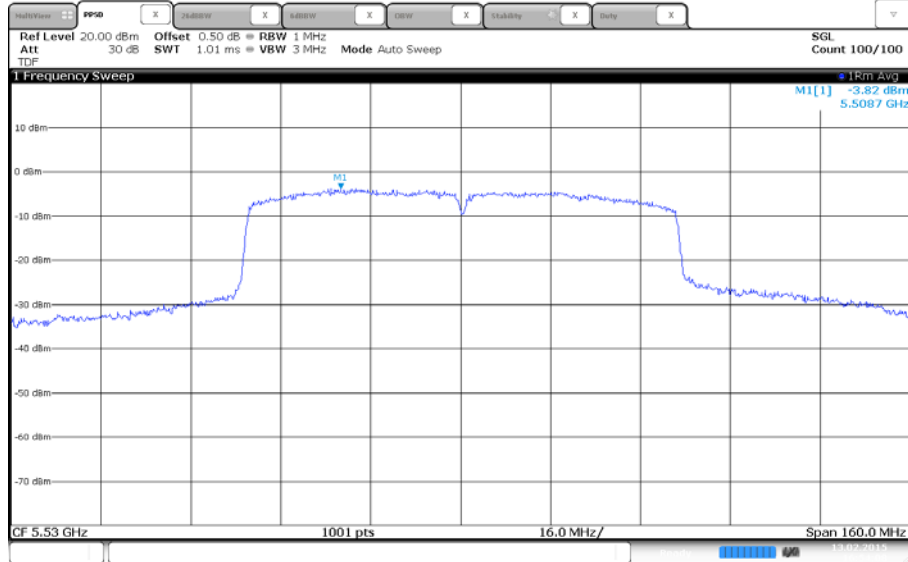
* 802.11ac VHT80_5 250 Band

-5 290 MHz



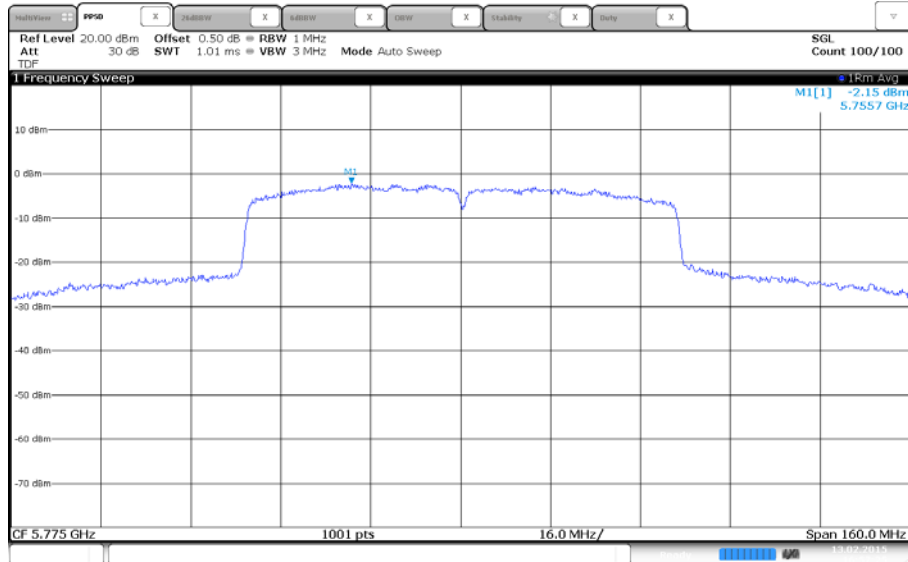
* 802.11ac VHT80_5 470 Band

-5 530 MHz



* 802.11ac VHT80_5 725 Band

-5 775 MHz



5.6 Spurious Emission, Band Edge And Restricted Bands

5.6.1 Regulation

According to §15.407(b)(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 EIRP of -27 dBm/MHz.

According to §15.407(b) (2) For transmitters operating in the 5.25-5.35 GHzband: All emissions outside of the 5.15-5.35 GHzband shall not exceed an e.i.r.p. of -27 dBm/MHz.

According to §15.407(b) For transmitters operating in the 5.47-5.725 GHzband: All emissions outside of the 5.47-5.725 GHzband shall not exceed an e.i.r.p. of -27 dBm/MHz.

According to §15.407(b) (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

According to §15.407(b)(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

According to §15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 -1.705	24000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

** The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector and above 1000 MHz are based on the average value of measured emissions.

According to §15.407(b)(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

5.6.2 Measurement Procedure

These test measurement settings are specified in section G of 789033 D02 General UNII Test Procedures New Rules v01.

For all radiated emissions tests, measurements must correspond to the direction of maximum emission level for each measured emission (see ANSI C63.10 for guidance).

5.6.2.1 Unwanted Emissions in the Restricted Bands & Outside of the Restricted Bands

- (1) For all measurements, follow the requirements in section II.G.3., “General Requirements for Unwanted Emissions Measurements”.
- (2) At frequencies below 1000 MHz, use the procedure described in section II.G.4., “Procedure for Unwanted Emissions Measurements Below 1000 MHz”.
- (3) At frequencies above 1000 MHz, measurements performed using the peak and average measurement procedures described in sections II.G.5. and II.G.6, respectively, must satisfy the respective peak and average limits. If all peak measurements satisfy the average limit, then average measurements are not required.

(4) Unwanted Emissions that fall Outside of the Restricted Bands

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)).

However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

a) If radiated measurements are performed, field strength is then converted to EIRP as follows:

(i) $EIRP = ((E \cdot d)^2) / 30$

where: • E is the field strength in V/m; • d is the measurement distance in meters;
• EIRP is the equivalent isotropically radiated power in watts.

(ii) Working in dB units, the above equation is equivalent to:

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$$

(iii) Or, if d is 3 meters:

$$EIRP[dBm] = E[dB\mu V/m] - 95.2$$

5.6.2.2 Spurious Radiated Emissions:

1. The preliminary and final radiated measurements were performed to determine the frequency producing the maximum emissions in at a 10m anechoic chamber. The EUT was tested at a distance 3 meters.
2. The EUT was placed on the top of the 0.8-meter height, 1 × 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
3. The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, and from 30 to 1000 MHz using the TRILOG broadband antenna, and from 1 000 MHz to 40 000 MHz using the horn antenna.
4. Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

Note

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz.
The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz ($\geq 1/T$) for Average detection (AV) at frequency above 1 GHz. (where T = pulse width)

5.6.3 Test Result

-complied

1. Band-edge & Conducted Spurious Emissions was shown in figure 3.
Note: We took the insertion loss of the cable into consideration within the measuring instrument.
2. Measured value of the Field strength of spurious Emissions (Radiated)
3. It tested x,y and z – 3 axis each, mentioned only worst case data at this report.

*** Below 1 GHz data (Worst-case: 5 725 Band_Low channel)**

802.11ac_VHT80

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Quasi-Peak DATA. Emissions below 30 MHz (3m Distance)							
below 30.00	Not Detected	-	-	-	-	-	-
Quasi-Peak DATA. Emissions below 1 GHz							
99.48	120	H	49.00	-10.60	38.40	43.50	5.10
199.87	120	H	49.70	-9.70	40.00	43.50	3.50
299.90	120	H	41.60	-6.80	34.80	46.00	11.20
696.63	120	H	35.50	0.00	35.50	46.00	10.50
Above 1 000.00	Not Detected	-	-	-	-	-	-

*** Above 1 GHz data_5 150 Band**

802.11a (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 4 807.50	1 000	V	43.00	7.40	50.40	74.00	23.60
Above 5 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 4 807.50	1 000	V	34.70	7.40	42.10	54.00	11.90
Above 5 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11a (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11a (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 149.38	1 000	V	43.80	8.10	51.90	74.00	22.10
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 149.38	1 000	V	36.00	8.10	44.10	54.00	9.90
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11n HT20 (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT40 (5 190 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 150.00	1 000	V	51.00	8.10	59.10	74.00	14.90
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 150.00	1 000	V	42.80	8.10	50.90	54.00	3.10
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11n HT40 (5 230 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT20 (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 099.38	1 000	V	42.40	8.00	50.40	74.00	23.60
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 099.38	1 000	V	36.00	8.00	44.00	54.00	10.00
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11ac VHT20 (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT20 (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT40 (5 190 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 146.88	1 000	V	48.20	8.10	56.30	74.00	17.70
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 146.88	1 000	V	42.60	8.10	50.70	54.00	3.30
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11ac VHT40 (5 230 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT80 (5 210 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 141.25	1 000	V	48.60	8.00	56.60	74.00	17.40
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 141.25	1 000	V	42.90	8.00	50.90	54.00	3.10
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

*** Above 1 GHz data_5 250 Band**

802.11a (5 260 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11a (5 280 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11a (5 320 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 350.00	1 000	V	43.00	8.30	51.30	74.00	22.70
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 350.00	1 000	V	36.00	8.30	44.30	54.00	9.70
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11n HT20 (5 260 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 280 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 320 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 350.63	1 000	V	42.70	8.30	51.00	74.00	23.00
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 350.63	1 000	V	37.80	8.30	46.10	54.00	7.90
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11n HT40 (5 270 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT40 (5 310 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 357.50	1 000	V	46.30	8.30	54.60	74.00	19.40
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 357.50	1 000	V	42.60	8.30	50.90	54.00	3.10
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11ac VHT20 (5 260 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 280 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 320 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 359.38	1 000	V	42.30	8.30	50.60	74.00	23.40
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 359.38	1 000	V	37.50	8.30	45.80	54.00	8.20
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11ac VHT40 (5 270 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT40 (5 310 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 351.25	1 000	V	47.90	8.30	56.20	74.00	17.80
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 351.25	1 000	V	41.50	8.30	49.80	54.00	4.20
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

802.11ac VHT80 (5 290 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
* 5 361.88	1 000	V	49.70	8.30	58.00	74.00	16.00
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
* 5 361.88	1 000	V	42.40	8.30	50.70	54.00	3.30
Above 6 000.00	Not Detected	-	-	-	-	-	-

* Asterisks mean restricted band.

*** Above 1 GHz data_5 470 Band**

802.11a (5 500 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 465.00	1 000	V	49.70	8.50	58.20	68.20	10.00
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11a (5 580 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11a (5 700 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 735.00	1 000	V	41.60	9.10	50.70	68.20	17.50
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT20 (5 500 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 461.25	1 000	V	45.60	8.50	54.10	68.20	14.10
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT20 (5 580 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 700 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
5 725.00	1 000	V	47.00	9.10	56.10	68.20	12.10
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT40 (5 510 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 463.13	1 000	V	49.10	8.50	57.60	68.20	10.60
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT40 (5 590 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT40 (5 670 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 728.75	1 000	V	43.10	9.10	52.20	68.20	16.00
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT20 (5 500 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 460.63	1 000	V	50.90	8.50	59.40	68.20	8.80
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT20 (5 580 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT20 (5 700 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 732.50	1 000	V	43.40	9.10	52.50	68.20	15.70
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT40 (5 510 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 468.13	1 000	V	48.50	8.50	57.00	68.20	11.20
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT40 (5 590 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT40 (5 670 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 726.25	1 000	V	41.10	9.10	50.20	68.20	18.00
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT80 (5 530 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 467.50	1 000	V	53.20	8.50	61.70	68.20	6.50
# 5 725.63	1 000	V	41.60	9.10	50.70	68.20	17.50
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

*** Above 1 GHz data_5 725 Band**

802.11a (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 725.00	1 000	V	50.40	9.10	59.50	78.20	18.70
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11a (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11a (5 805 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 851.25	1 000	V	41.90	9.50	51.40	78.20	26.80
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT20 (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 723.13	1 000	V	45.60	9.10	54.70	78.20	23.50
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT20 (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11n HT20 (5 805 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 850.00	1 000	V	42.40	9.50	51.90	78.20	26.30
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT40 (5 755 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 719.38	1 000	V	51.20	9.10	60.30	78.20	17.90
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11n HT40 (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 852.50	1 000	V	43.30	9.50	52.80	78.20	25.40
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT20 (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 718.13	1 000	V	50.30	9.10	59.40	78.20	18.80
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT20 (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

802.11ac VHT20 (5 805 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 850.63	1 000	V	46.40	9.50	55.90	78.20	22.30
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT40 (5 755 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 719.38	1 000	V	52.00	9.10	61.10	78.20	17.10
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT40 (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 854.38	1 000	V	42.50	9.50	52.00	78.20	26.20
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

802.11ac VHT80 (5 775 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz							
# 5 724.38	1 000	V	55.10	9.10	64.20	78.20	14.00
# 5 853.13	1 000	V	51.50	9.50	61.00	78.20	17.20
Above 6 000.00	Not Detected	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz							
-	Not Detected	-	-	-	-	-	-

This hash means out of band.

5.7 Frequency Stability

5.7.1 Regulation

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

5.7.2 Measurement Procedure

The frequency stability of the carrier frequency of the intentional radiator shall be maintained all conditions of normal operation as specified in the users manual. The frequency stability shall be maintained over a temperature variation of specified in the users manual at normal supply voltage, and over a variation in the primary supply voltage of specified in the users manual of the rated supply voltage at a temperature of 20 °C. For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage.

1. The EUT was placed inside the environmental test chamber.
2. The temperature was incremented by 10 °C intervals from lowest temperature.
3. Each increase step of temperature measured the frequency.
4. The test temperature was set 20°C and the supply voltage was then adjusted on the EUT from 85 % to 115% and the frequency record.

5.7.3 Test Result

-Complied

* 5 150 Band

-802.11a/n_HT20/ac_VHT20

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5180019174	19174	0.0004
100		10	5180011678	11678	0.0002
100		20	5179999966	-34	0.0000
100		30	5179988820	-11180	-0.0002
100		40	5179989616	-10384	-0.0002
100		50	5179993271	-6729	-0.0001
100		60	5180011004	11004	0.0002
100		70	5180043475	43475	0.0008
100		20	5179988611	-11389	-0.0002
85	2.81	20	5179989672	-10328	-0.0002
115	3.80	20	5179987763	-12237	-0.0002

-802.11n_HT40/ac_VHT40

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5190020074	20074	0.0004
100		10	5190010636	10636	0.0002
100		20	5189997526	-2474	0.0000
100		30	5189988775	-11225	-0.0002
100		40	5189989861	-10139	-0.0002
100		50	5189993648	-6352	-0.0001
100		60	5190008946	8946	0.0002
100		70	5190043860	43860	0.0008
100		20	5189990849	-9151	-0.0002
85	2.81	20	5189991736	-8264	-0.0002
115	3.80	20	5189988596	-11404	-0.0002

-802.11ac_VHT80

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5210018959	18959	0.0004
100		10	5210009825	9825	0.0002
100		20	5209997395	-2605	-0.0001
100		30	5209989375	-10625	-0.0002
100		40	5209989932	-10068	-0.0002
100		50	5209993771	-6229	-0.0001
100		60	5210012613	12613	0.0002
100		70	5210048600	48600	0.0009
100		20	5209990964	-9036	-0.0002
85		2.81	20	5209996026	-3974
115	3.80	20	5209988104	-11896	-0.0002

* 5 250 Band

-802.11a/n_HT20/ac_VHT20

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5260019933	19933	0.0004
100		10	5260011893	11893	0.0002
100		20	5259997771	-2229	0.0000
100		30	5259989242	-10758	-0.0002
100		40	5259989852	-10148	-0.0002
100		50	5259993422	-6578	-0.0001
100		60	5260010729	10729	0.0002
100		70	5260043796	43796	0.0008
100		20	5259990122	-9878	-0.0002
85		2.81	20	5259988086	-11914
115	3.80	20	5259987151	-12849	-0.0002

-802.11n_HT40/ac_VHT40

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5270019572	19572	0.0004
100		10	5270011883	11883	0.0002
100		20	5269998049	-1951	0.0000
100		30	5269989236	-10764	-0.0002
100		40	5269989868	-10132	-0.0002
100		50	5269993602	-6398	-0.0001
100		60	5270010573	10573	0.0002
100		70	5270045429	45429	0.0009
100		20	5269990679	-9321	-0.0002
85		2.81	20	5269990478	-9522
115	3.80	20	5269988013	-11987	-0.0002

-802.11ac_VHT80

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5290020301	20301	0.0004
100		10	5290011319	11319	0.0002
100		20	5289997845	-2155	0.0000
100		30	5289988858	-11142	-0.0002
100		40	5289990084	-9916	-0.0002
100		50	5289993583	-6417	-0.0001
100		60	5290012164	12164	0.0002
100		70	5290048387	48387	0.0009
100		20	5289990384	-9616	-0.0002
85		2.81	20	5289989611	-10389
115	3.80	20	5289987939	-12061	-0.0002

* 5 470 Band

-802.11a/n_HT20/ac_VHT20

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5500022286	22286	0.0004
100		10	5500011102	11102	0.0002
100		20	5499999607	-393	0.0000
100		30	5499988567	-11433	-0.0002
100		40	5499989451	-10549	-0.0002
100		50	5499993230	-6770	-0.0001
100		60	5500009710	9710	0.0002
100		70	5500044763	44763	0.0008
100		20	5499990021	-9979	-0.0002
85		2.81	20	5499994851	-5149
115	3.80	20	5499987311	-12689	-0.0002

-802.11n_HT40/ac_VHT40

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.30	0	5510021982	21982	0.0004
100		10	5510012012	12012	0.0002
100		20	5509999570	-430	0.0000
100		30	5509988723	-11277	-0.0002
100		40	5509989706	-10294	-0.0002
100		50	5509992726	-7274	-0.0001
100		60	5510010616	10616	0.0002
100		70	5510046978	46978	0.0009
100		20	5509990524	-9476	-0.0002
85		2.81	20	5509996033	-3967
115	3.80	20	5509988246	-11754	-0.0002

-802.11ac_VHT80

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.3	0	5530023170	23170	0.0004
100		10	5530010415	10415	0.0002
100		20	5530002097	2097	0.0000
100		30	5529988697	-11303	-0.0002
100		40	5529989374	-10626	-0.0002
100		50	5529992514	-7486	-0.0001
100		60	5530009797	9797	0.0002
100		70	5530041532	41532	0.0008
100		20	5529990482	-9518	-0.0002
85		2.81	20	5529989124	-10876
115	3.8	20	5529987790	-12210	-0.0002

* 5 470 Band

-802.11a/n_HT20/ac_VHT20

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.3	0	5745023868	23868	0.0004
100		10	5745010881	10881	0.0002
100		20	5745001404	1404	0.0000
100		30	5744987397	-12603	-0.0002
100		40	5744990155	-9845	-0.0002
100		50	5744992218	-7782	-0.0001
100		60	5745010770	10770	0.0002
100		70	5745044682	44682	0.0008
100		20	5744989761	-10239	-0.0002
85		2.81	20	5744996053	-3947
115	3.8	20	5744989242	-10758	-0.0002

-802.11n_HT40/ac_VHT40

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.3	0	5755024178	24178	0.0004
100		10	5755015004	15004	0.0003
100		20	5755001356	1356	0.0000
100		30	5754987611	-12389	-0.0002
100		40	5754989645	-10355	-0.0002
100		50	5754992394	-7606	-0.0001
100		60	5755009468	9468	0.0002
100		70	5755045987	45987	0.0008
100		20	5754991363	-8637	-0.0002
85		2.81	20	5754989876	-10124
115	3.8	20	5754987522	-12478	-0.0002

-802.11ac_VHT80

Voltage (%)	Power (V _{DC})	Temp. (°C)	Reading Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)
100	3.3	0	5775023229	23229	0.0004
100		10	5775010905	10905	0.0002
100		20	5775002730	2730	0.0000
100		30	5774987717	-12283	-0.0002
100		40	5774990244	-9756	-0.0002
100		50	5774991822	-8178	-0.0001
100		60	5775009704	9704	0.0002
100		70	5775047150	47150	0.0008
100		20	5774992507	-7493	-0.0001
85		2.81	20	5774994148	-5852
115	3.8	20	5774987668	-12332	-0.0002

5.8 DFS(Dynamic Frequency Selection)

5.8.1 Regulation

Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS).

(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

(i) Operational Modes. The DFS requirement applies to the following operational modes:

(A) The requirement for channel availability check time applies in the master operational mode.

(B) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

(i) Device Security. All U-NII devices must contain security features to protect against modification of software by unauthorized parties.

5.8.2 Measurement Procedure

The following table from FCC 06-96 lists the applicable requirements for the DFS testing.

The device evaluated in this report is considered a client device without radar detection capability.

5.8.3 Test Result

The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

The highest power level within these bands is 13.91 dBm (24.60 mW) EIRP in the 5 250 ~ 5 350 MHz band and 14.47dBm (27.98 mW) EIRP in the 5 470 ~ 5 650 MHz band.

The gain antenna assembly utilized with the master has a gain of 2.86 dBi.

The calibrated conducted DFS detection threshold level is set to 60.14dBm. $((-64 + 1 + 2.86) = -60.14)$

Channel Move Time

Frequency (MHz)	Channel Move Time (s)	Limit (s)
5 320	0.067	10
5 550	0.046	10
5 310	0.084	10
5 510	0.038	10
5 290	0.116	10
5 530	0.132	10

Channel Closing Time

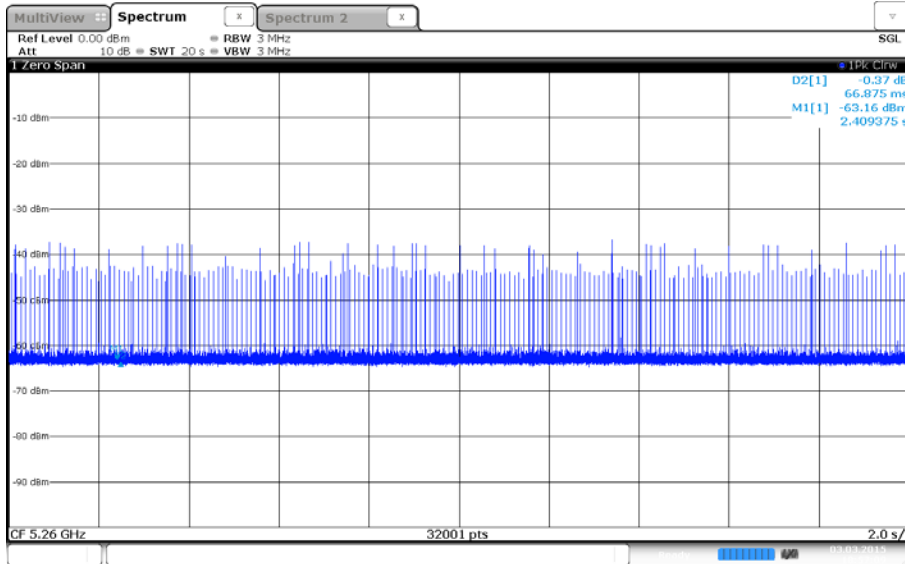
Frequency (MHz)	1 Signal	The Number	Channel Move Time (ms)	Limit (ms)
5 260	0.667	0	0	60
5 560	0.667	0	0	60
5 270	0.667	0	0	60
5 670	0.667	0	0	60
5 290	0.667	0	0	60
5 530	0.667	0	0	60

Note. Channel Move Time = 1Signal x The Number

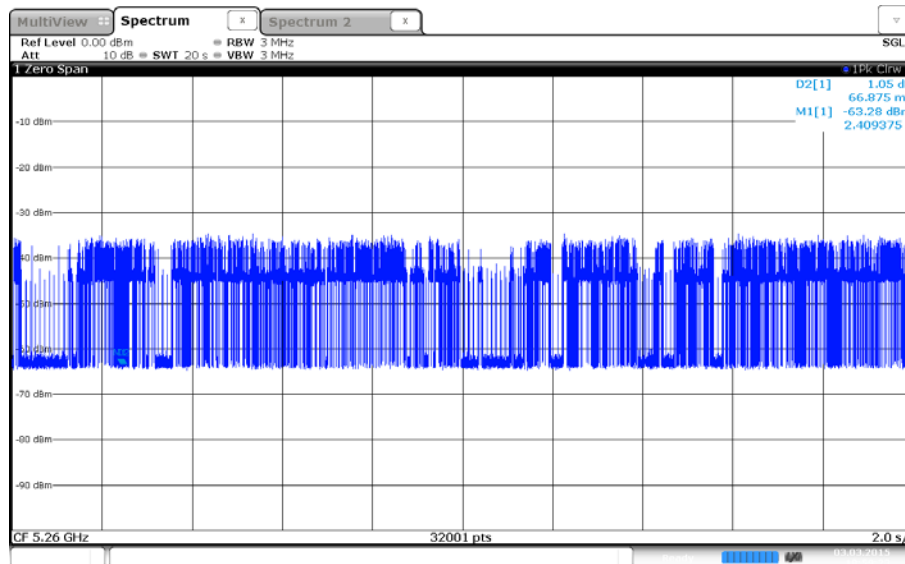
5.8.4 Test Plot

Figure 3. Plot of the DFS

No traffic signal(master signal)

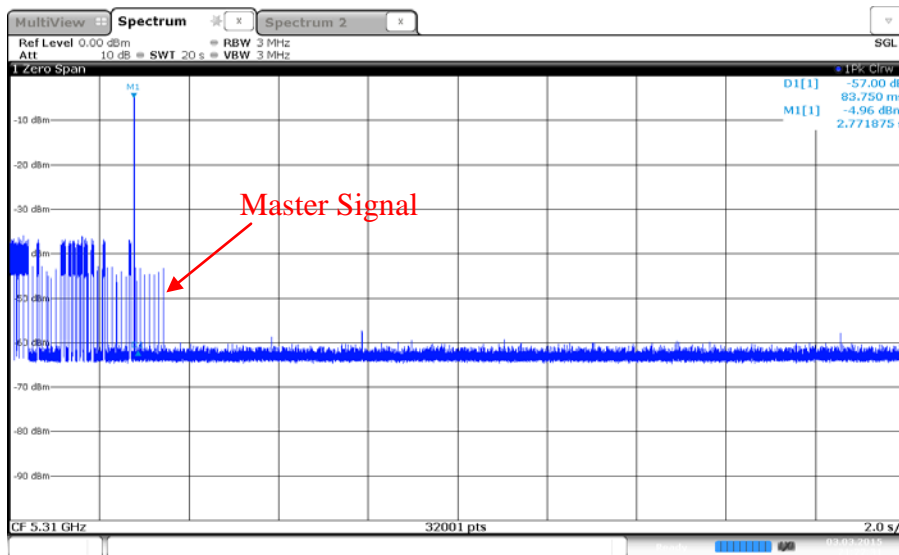


Client(EUT) Data Traffic Signal



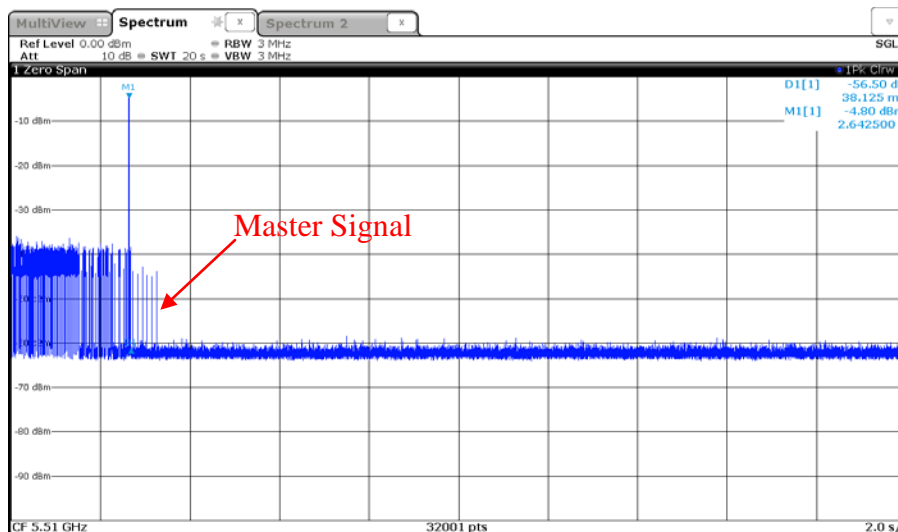
* 40 MHz BW

- 5 310 MHz



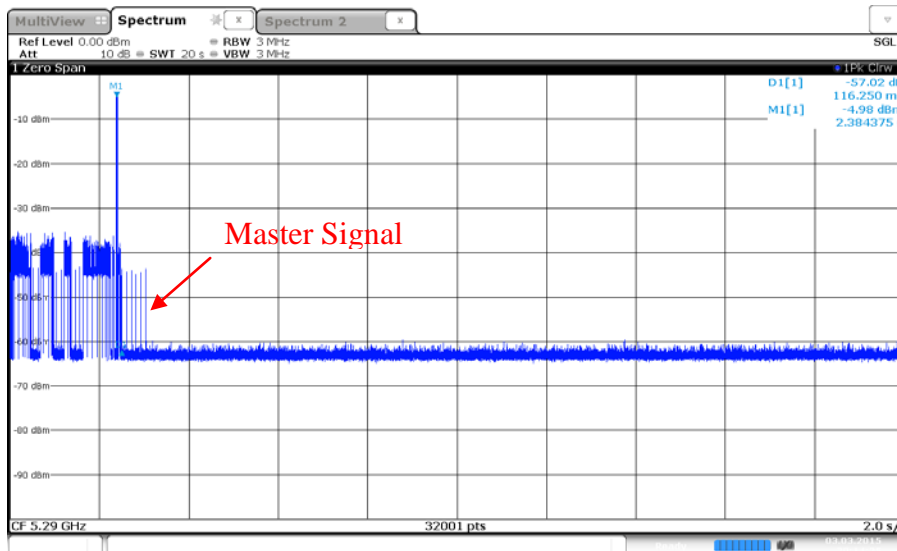
* 40 MHz BW

- 5 510 MHz



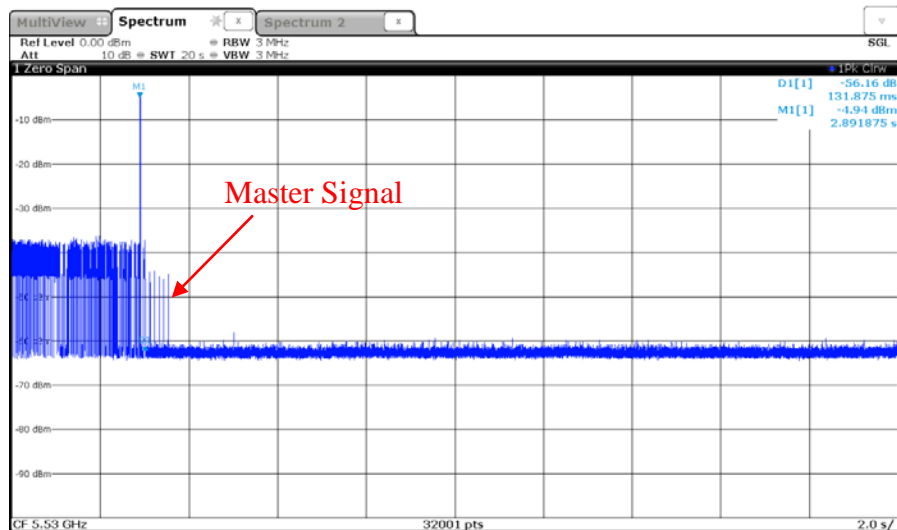
* 80 MHz BW

- 5 290 MHz



* 80 MHz BW

- 5 530 MHz



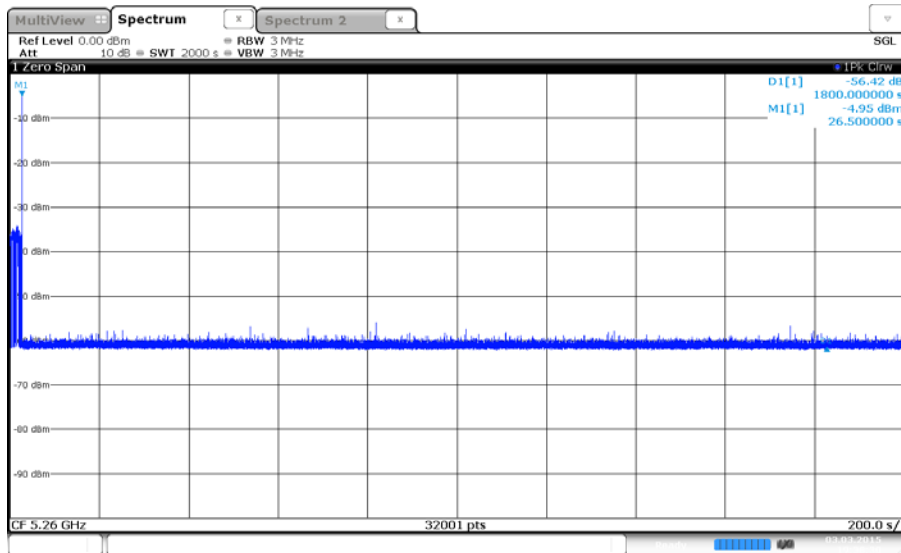
Non-Occupancy Period

Frequency (MHz)	Non-Occupancy Period (min)	Limit (min)
5 260	Over 30	> 30
5 560	Over 30	> 30
5 270	Over 30	> 30
5 670	Over 30	> 30
5 290	Over 30	> 30
5 530	Over 30	> 30

Non-Occupancy Period

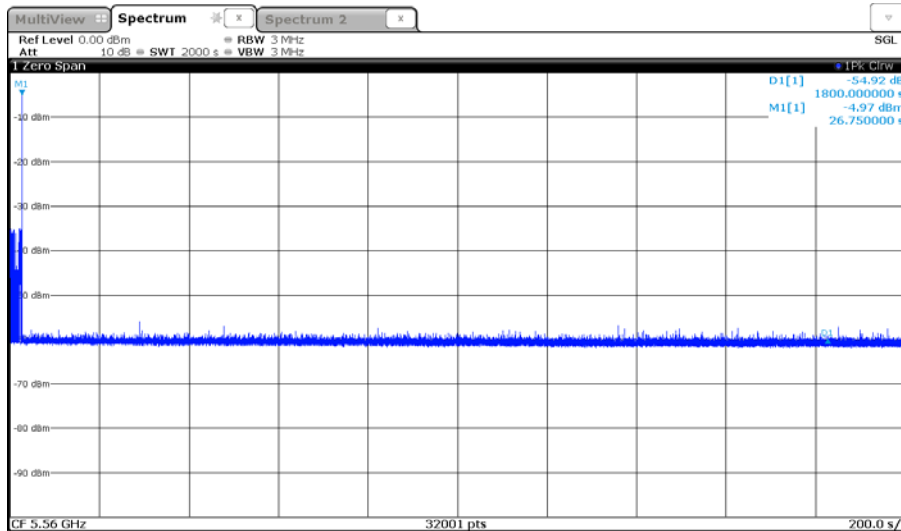
* 20 MHz BW

- 5 260 MHz



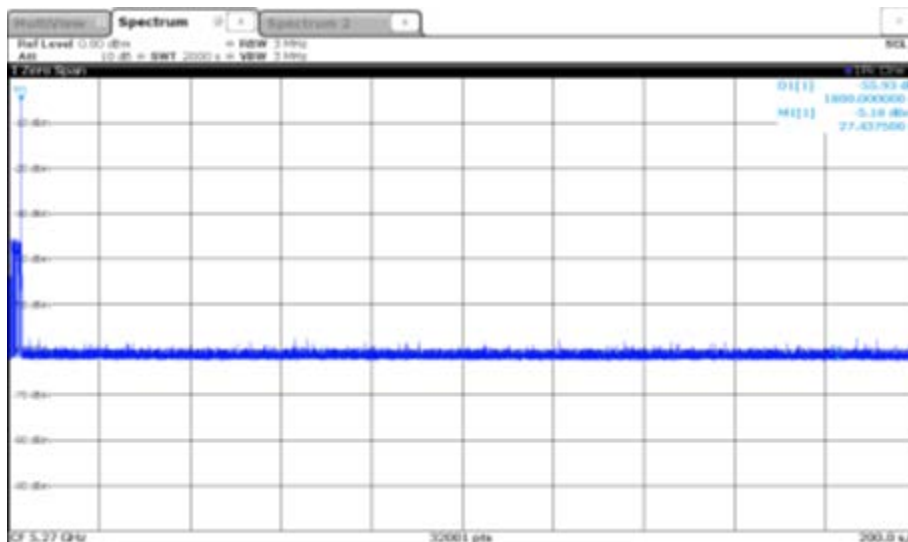
* 20 MHz BW

- 5 560 MHz



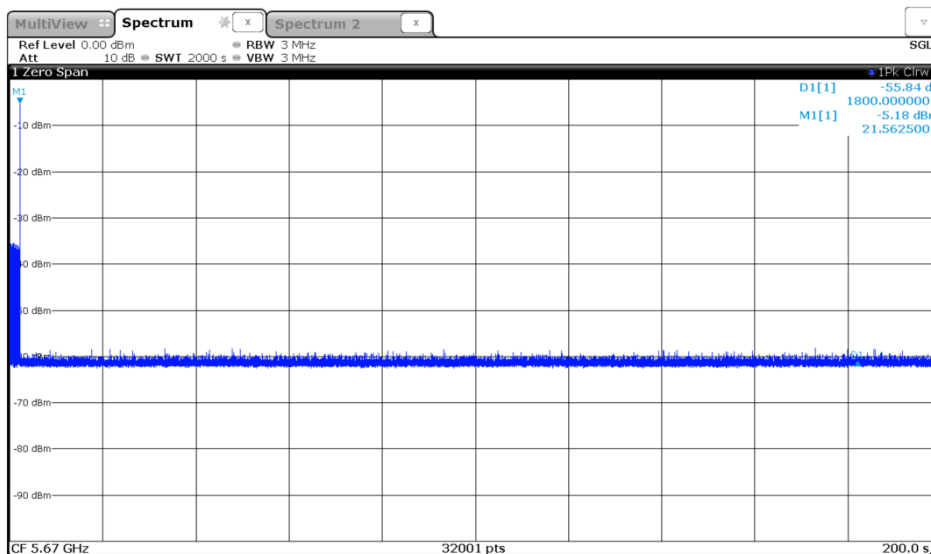
* 40 MHz BW

- 5 270 MHz



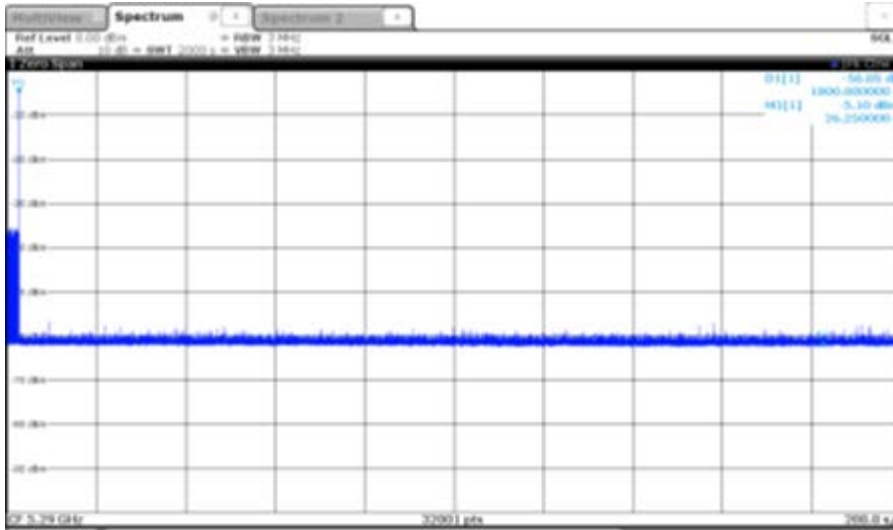
* 40 MHz BW

- 5 670 MHz



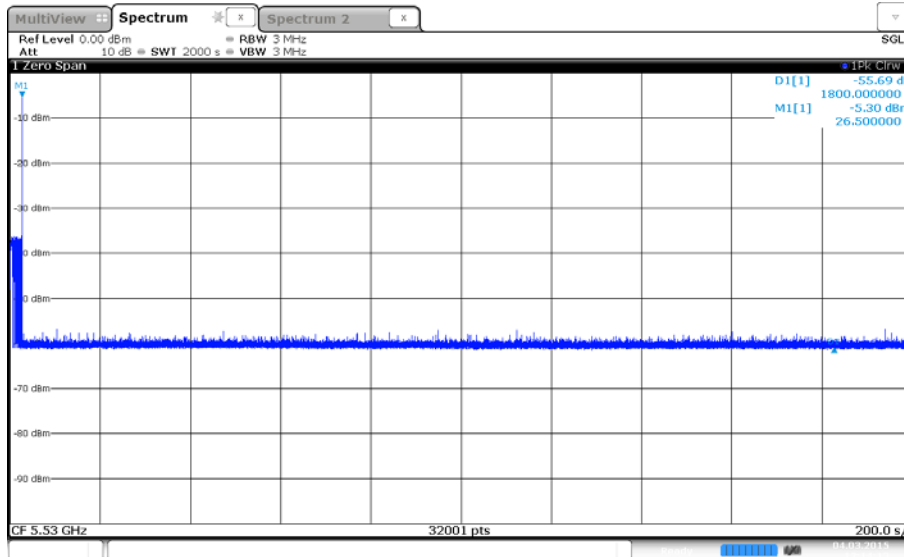
* 80 MHz BW

- 5 290 MHz



* 80 MHz BW

- 5 530 MHz



5.9 Conducted Emission

5.9.1 Regulation

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

* Decreases with the logarithm of the frequency.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

5.9.2 Measurement Procedure

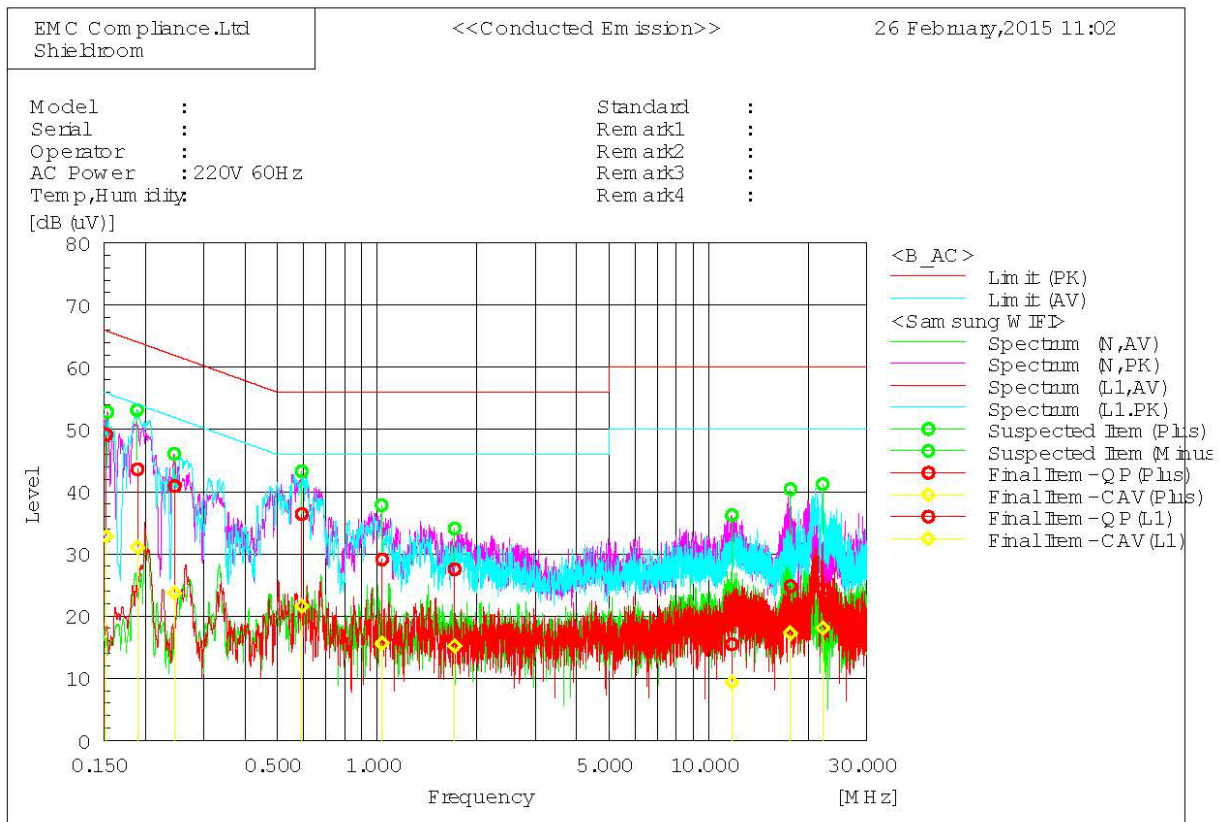
- 1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
- 2) Each current-carrying conductor of the EUT power cord was individually connected through a 50Ω/50μH LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.
- 3) Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
- 5) The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASI-PEAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

5.9.3 Test Result

- Complied

Figure 4. Plot of Conducted Emission

*Conducted worst-case data : 802.11ac VHT80_Low Channel (5 775 MHz)



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB (uV)]	Reading CAV [dB (uV)]	c.f [dB]	Result QP [dB (uV)]	Result CAV [dB (uV)]	Limit QP [dB (uV)]	Limit AV [dB (uV)]	Margin QP [dB]	Margin CAV [dB]	Remark
1	0.15273	39.7	23.3	9.5	49.2	32.8	65.9	55.9	16.7	23.1	
2	0.2451	31.5	14.4	9.3	40.8	23.7	61.9	51.9	21.1	28.2	
3	0.59295	26.8	12.0	9.6	36.4	21.6	56.0	46.0	19.6	24.4	
4	1.0351	19.6	6.1	9.5	29.1	15.6	56.0	46.0	26.9	30.4	
5	1.71142	18.0	5.7	9.5	27.5	15.2	56.0	46.0	28.5	30.8	
6	11.75147	5.6	-0.4	9.8	15.4	9.4	60.0	50.0	44.6	40.6	
7	17.62794	14.9	7.3	9.9	24.8	17.2	60.0	50.0	35.2	32.8	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB (uV)]	Reading CAV [dB (uV)]	c.f [dB]	Result QP [dB (uV)]	Result CAV [dB (uV)]	Limit QP [dB (uV)]	Limit AV [dB (uV)]	Margin QP [dB]	Margin CAV [dB]	Remark
1	0.18962	34.0	21.5	9.6	43.6	31.1	64.1	54.1	20.5	23.0	
2	22.06005	14.5	8.3	9.8	24.3	18.1	60.0	50.0	35.7	31.9	

6. Test equipment used for test

	Description	Manufacturer	Model No.	Serial No.	Next Cal Date.
■	Wideband Power Sensor	R & S	NRP-Z81	100677	15.05.28
■	Attenuator	HP	8491A	18591	15.05.08
■	Spectrum Analyzer	R&S	FSW26	101353	15.07.11
■	DC Power Supply	AGILENT	E3632A	MY400088000	15.12.11
■	Signal generator	R & S	SMR40	100007	15.06.10
■	Vector Signal Generator	R & S	SMBV100A	257566	16.01.06
■	Spectrum Analyzer	R & S	FSV30	100914	15.08.05
■	DC Power Supply	AGILENT	E3632A	MY51220373	15.12.11
■	Amplifier	HP	8447D	2944A07626	16.01.19
■	Turn Table	Innco Systems	DT2000S-1t	79	-
■	Antenna Mast	Innco Systems	MA4000-EP	303	-
■	Loop Antenna	R & S	HFH2-Z2	100355	15.06.19
■	Bi-Log Antenna	Schwarzbeck	VULB9163	552	16.05.14
■	Horn Antenna	ETS-LINDGREN	3117	155787	16.02.05
■	Horn Antenna	ETS-LINDGREN	3116	86632	15.10.20
■	Broadband Preamplifier	SCHWARZBECK	BBV9718	216	15.04.22
■	Broadband Preamplifier	SCHWARZBECK	BBV9721	2	15.05.09
■	Attenuator	HP	9419A	MY52460424	15.07.23
■	Highpass Filter	Wainwright Instruments GmbH	WHKX3.0 /18G-12SS	44	16.02.02
■	Highpass Filter	Wainwright Instruments GmbH	WHKX6.5 /18G-8SS	2	15.06.19
■	EMI Test Receiver	R & S	ESR7	101078	16.02.24
■	Two-Line-V-Network	R & S	ENV216	101358	15.10.04
■	Power Divider	Aeroflex/ Weinschel,Inc	1580-1	RM986	15.04.08
■	Power Divider	Aeroflex/ Weinschel,Inc	1580-1	RM987	15.04.08