

- 802.11n HT20

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 180	-2.46	0.16	-2.30	17.00	19.30
5 200	-2.03	0.16	-1.87	17.00	18.87
5 240	-2.23	0.16	-2.07	17.00	19.07

- 802.11n HT40

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 180	-7.66	0.31	-7.35	17.00	24.35
5 240	-7.63	0.31	-7.32	17.00	24.32

- MIMO (ANT 1+2)

- 802.11n HT20

Frequency [MHz]	Result_ ANT 1 [dBm/MHz]	Result_ ANT 2 [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 180	-1.03	-1.17	0.30	2.21	17.45	15.24
5 200	-0.83	-1.08	0.30	2.36	17.45	15.09
5 240	-0.20	-1.19	0.30	2.64	17.45	14.81

- 802.11n HT40

Frequency [MHz]	Result_ ANT 1 [dBm/MHz]	Result_ ANT 2 [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 190	-6.60	-7.63	0.57	-3.50	17.45	20.95
5 230	-6.24	-7.87	0.57	-3.40	17.45	20.85

- 5 725 Band

- Ant 1

- 802.11a

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 745	-2.22	0.15	-2.07	30.00	32.07
5 785	-2.90	0.15	-2.75	30.00	32.75
5 825	-3.53	0.15	-3.38	30.00	33.38

- 802.11n HT20

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 745	-4.35	0.16	-4.19	30.00	34.19
5 785	-5.26	0.16	-5.10	30.00	35.10
5 825	-5.62	0.16	-5.46	30.00	35.46

- 802.11n HT40

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 755	-8.37	0.31	-8.06	30.00	38.06
5 795	-9.30	0.31	-8.99	30.00	38.99

- Ant 2

- 802.11a

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 745	-0.78	0.15	-0.63	30.00	30.63
5 785	-1.34	0.15	-1.19	30.00	31.19
5 825	-1.50	0.15	-1.35	30.00	31.35

- 802.11n HT20

Frequency [MHz]	Result [dBm/MHz] Ant1	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 745	-3.15	0.16	-2.99	30.00	32.99
5 785	-3.71	0.16	-3.55	30.00	33.55
5 825	-3.95	0.16	-3.79	30.00	33.79

- 802.11n HT40

Frequency [MHz]	Result [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 755	-6.95	0.31	-6.64	30.00	36.64
5 795	-7.61	0.31	-7.30	30.00	37.30

- MIMO (ANT 1+2)

- 802.11n HT20

Frequency [MHz]	Result_ ANT 1 [dBm/MHz]	Result_ ANT 2 [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 745	-7.76	-7.23	0.30	-4.18	29.77	33.95
5 785	-8.95	-7.59	0.30	-4.91	29.77	34.68
5 825	-8.52	-7.98	0.30	-4.93	29.77	34.70

- 802.11n HT40

Frequency [MHz]	Result_ ANT 1 [dBm/MHz]	Result_ ANT 2 [dBm/MHz]	D.C.C.F [dB]	Total result [dBm/MHz]	Limit [dBm]	Margin [dB]
5 755	-12.54	-11.48	0.57	-8.40	29.77	38.17
5 795	-13.21	-12.15	0.57	-9.07	29.77	38.84

Note:

1. Since the directional antenna gain exceeds 6.0 dBi (Total Antenna Gain: 5.55 dBi (Band 1), 6.23dBi (Band 4)), the limit was reduced.
2. D.C.C.F = Duty cycle correction factor

5.4.4 Test Plot

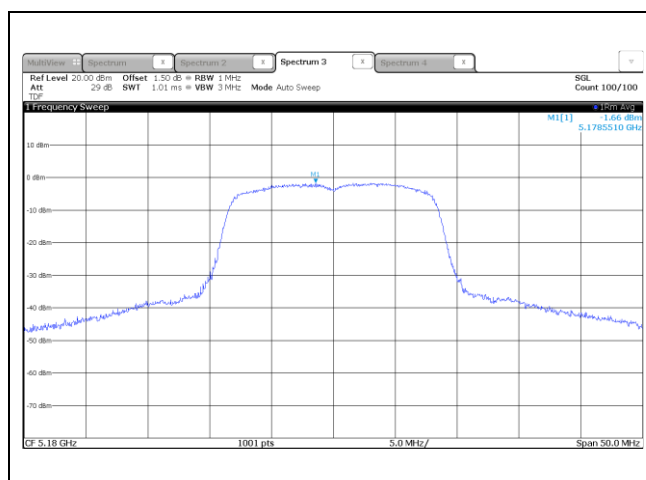
Figure 2. Plot of the Power Spectral Density

- 5 150 Band

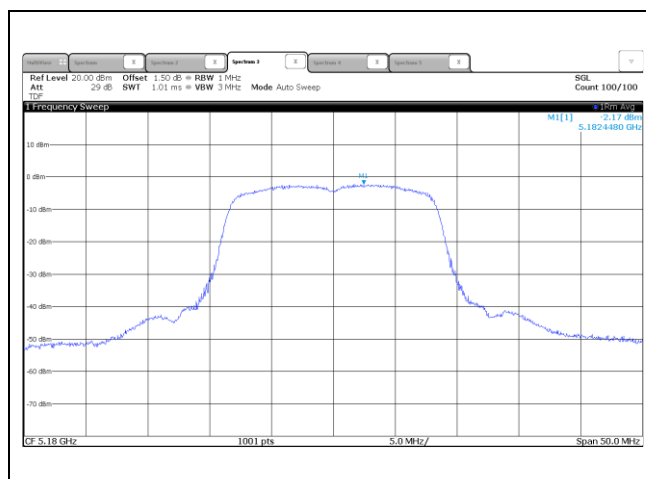
- 802.11a

- 5 180 MHz

ANT 1

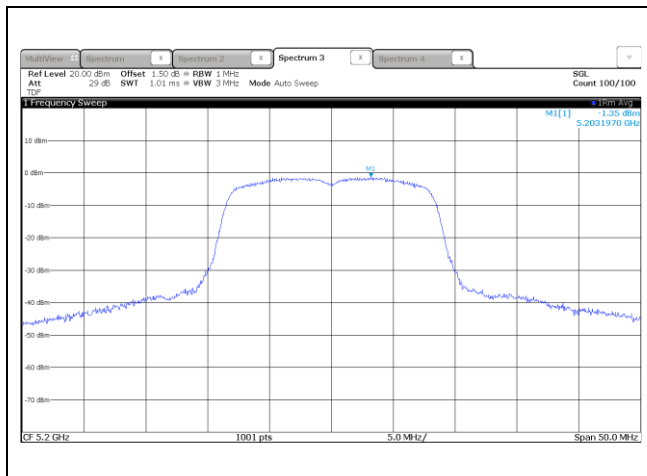


ANT 2

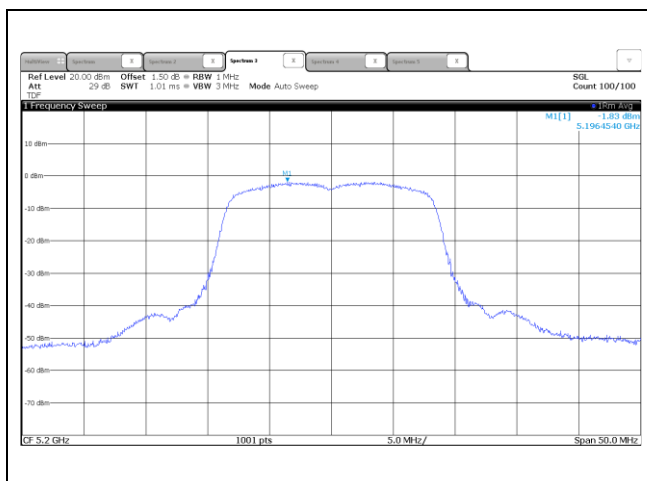


- 5 200 MHz

ANT 1

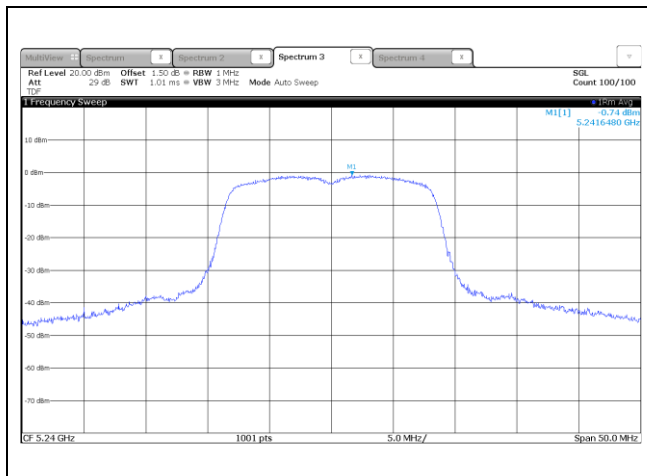


ANT 2

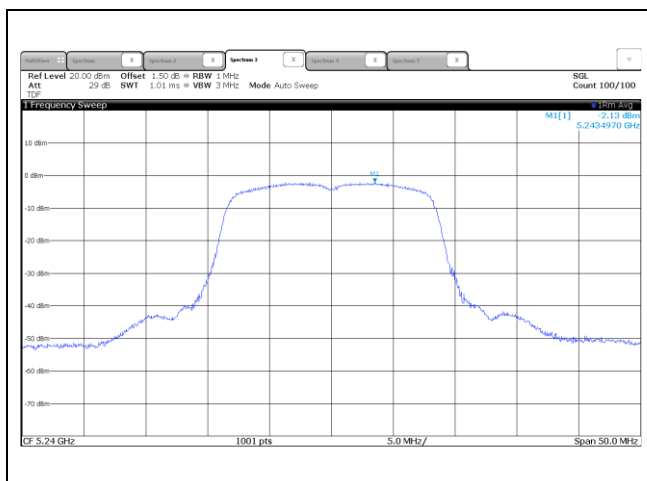


- 5 240 MHz

ANT 1



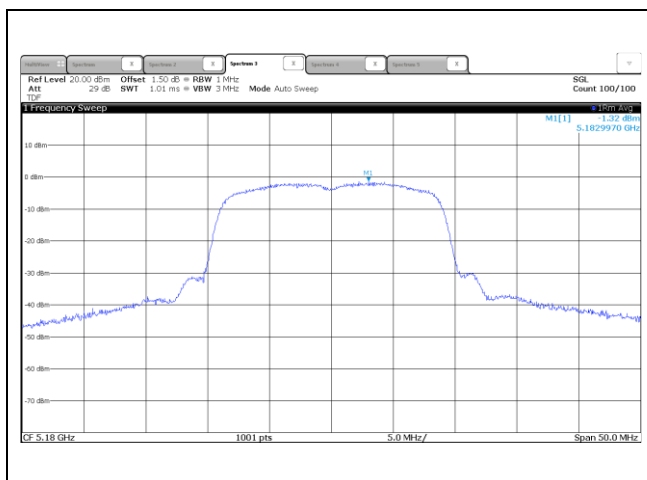
ANT 2



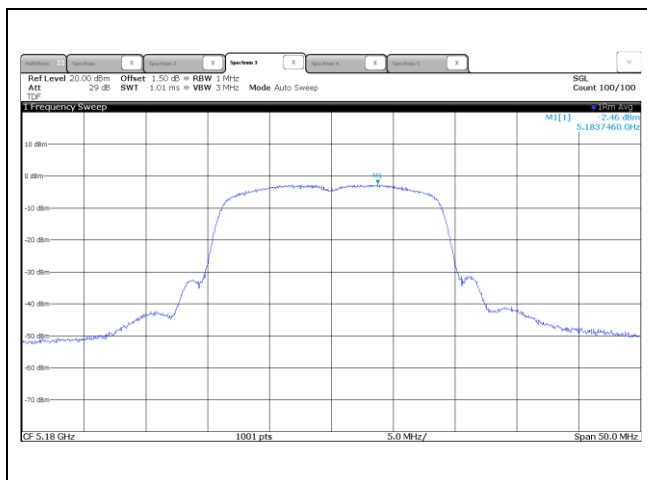
- 802.11n HT20

- 5 180 MHz

ANT 1

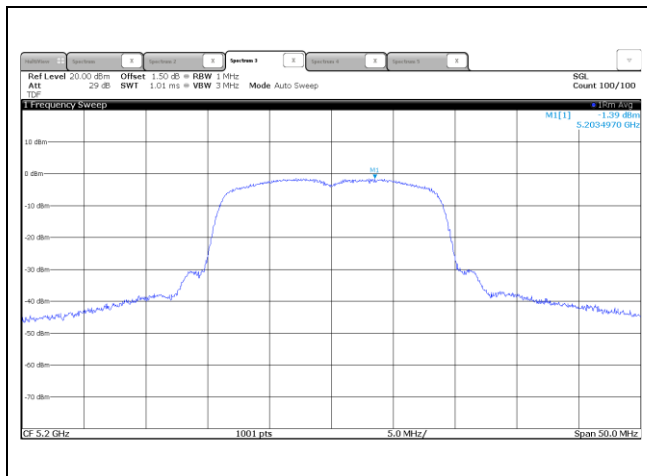


ANT 2

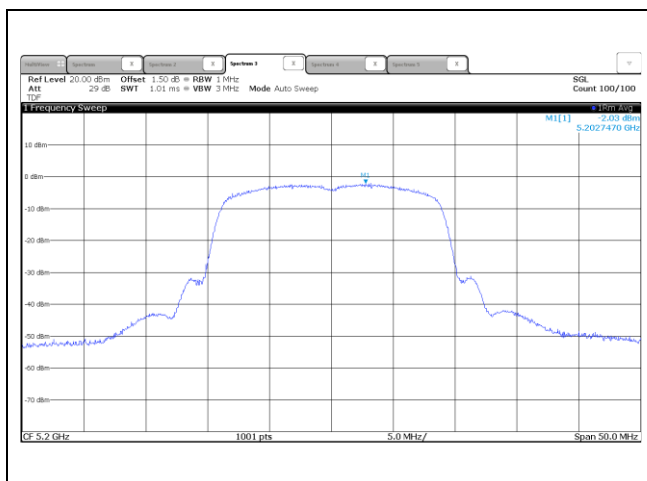


- 5 200 MHz

ANT 1

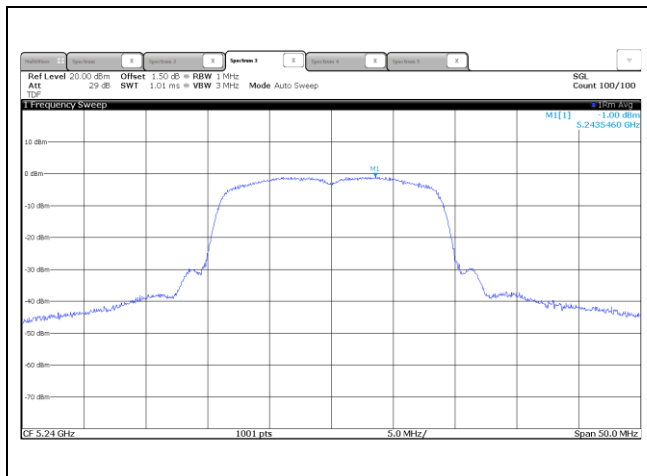


ANT 2

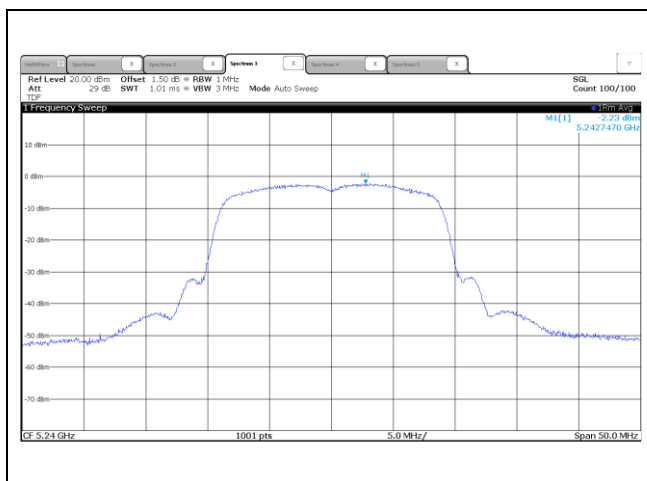


- 5 240 MHz

ANT 1



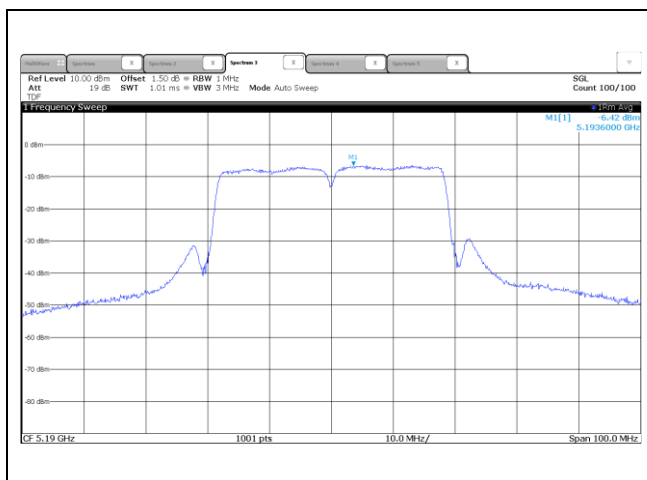
ANT 2



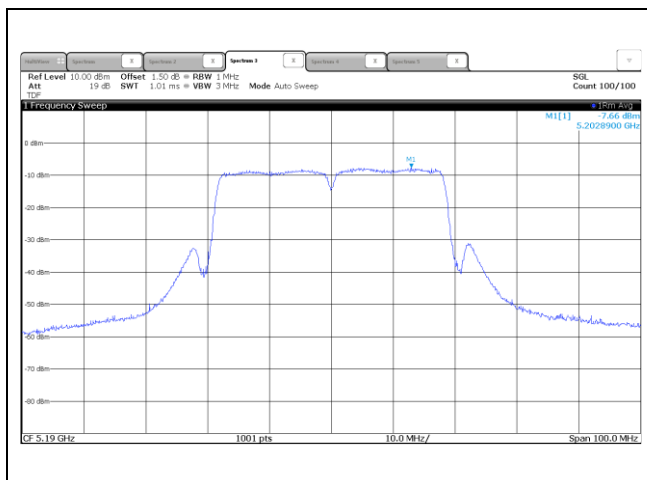
- 802.11n HT40

- 5 190 MHz

ANT 1

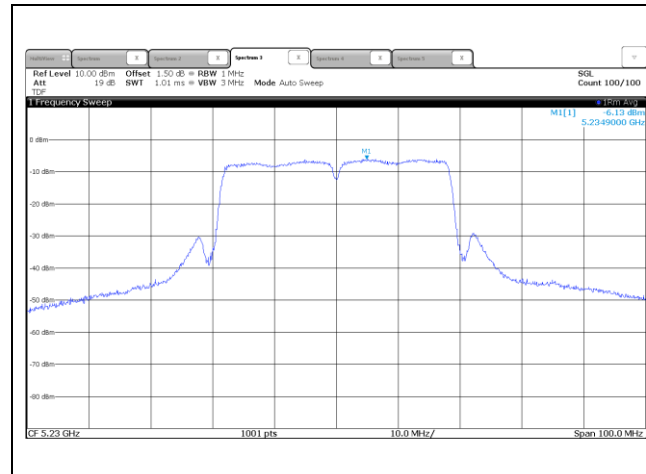


ANT 2

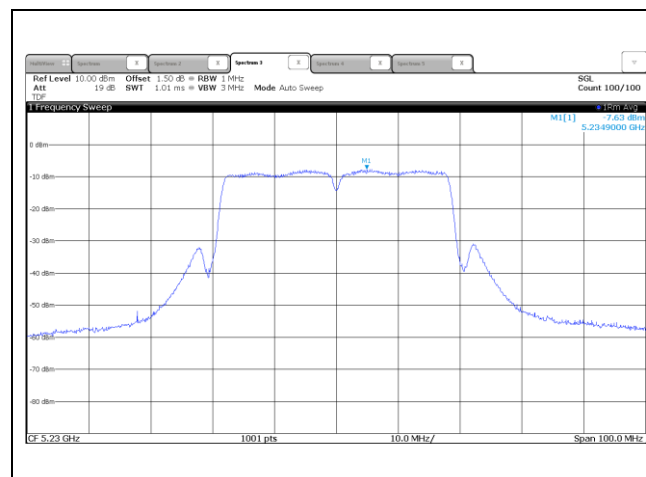


- 5 230 MHz

ANT 1



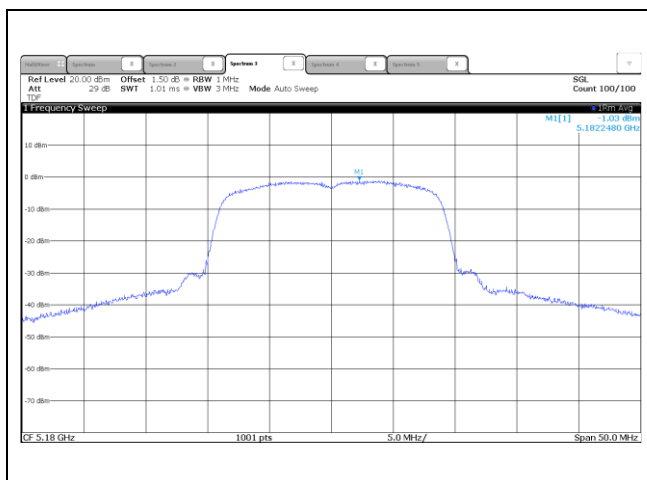
ANT 2



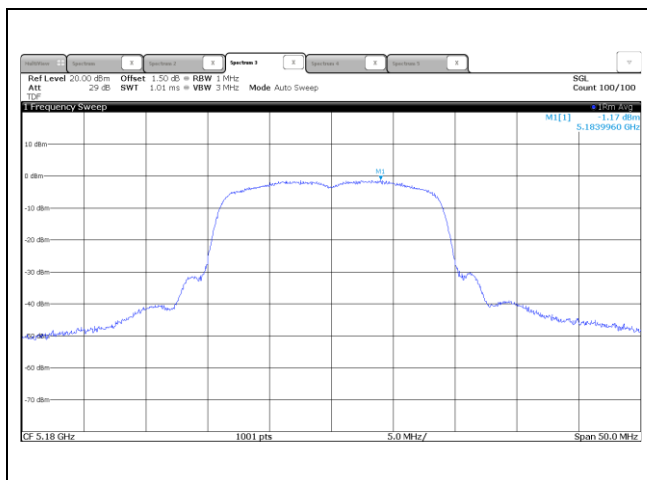
- 802.11n HT20

- 5 180 MHz

MIMO (ANT 1)

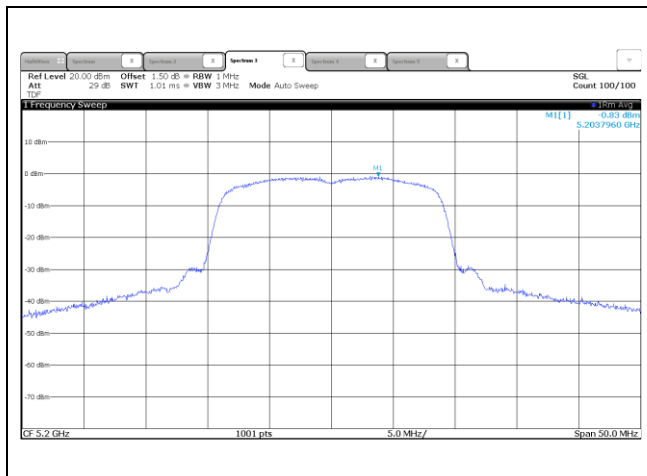


MIMO (ANT 2)

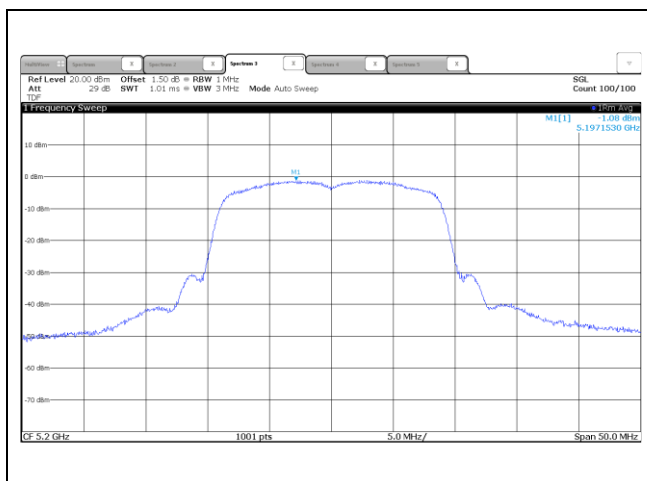


- 5 200 MHz

MIMO (ANT 1)

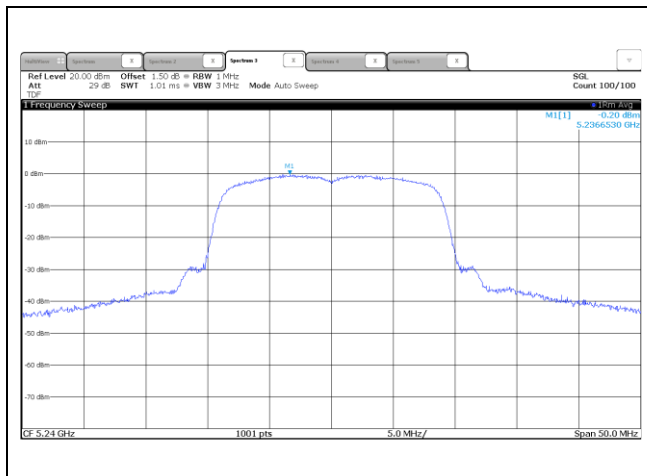


MIMO (ANT 2)

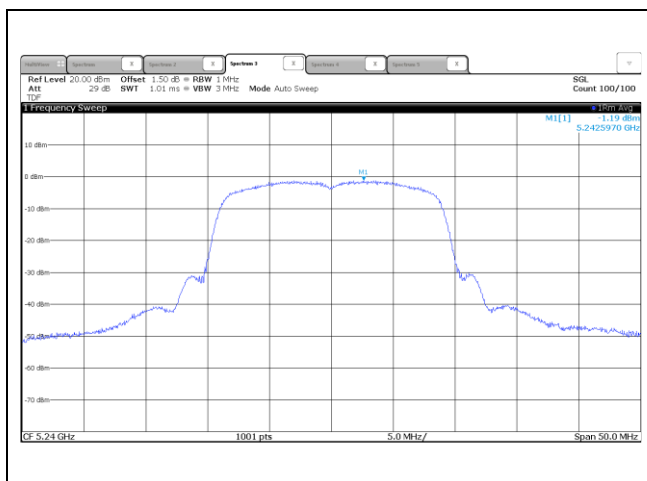


- 5 240 MHz

MIMO (ANT 1)



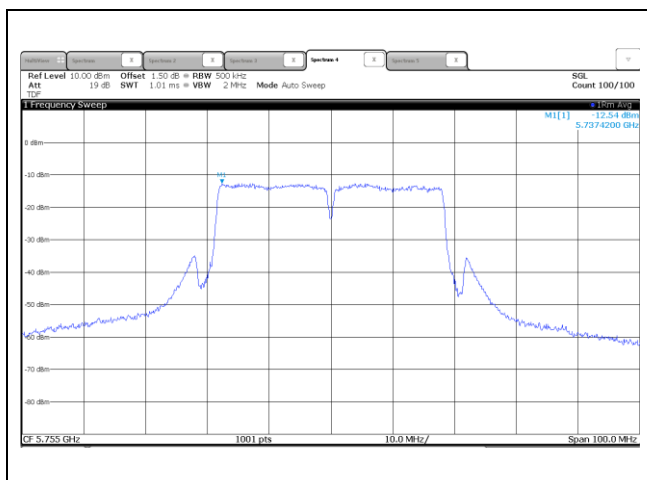
MIMO (ANT 2)



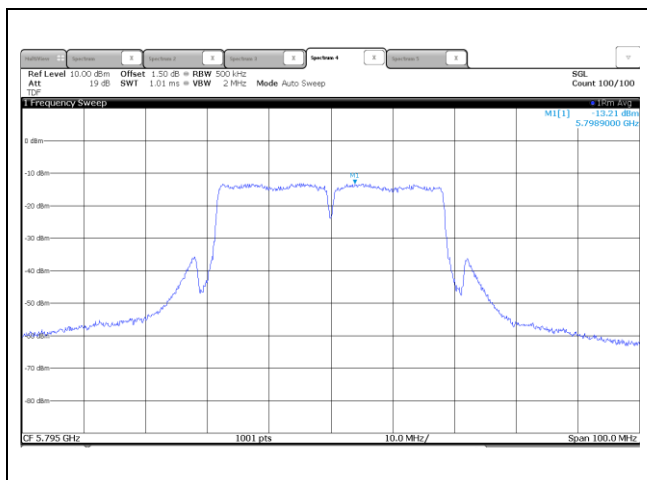
- 802.11n HT40

- 5 755 MHz

MIMO (ANT 1)

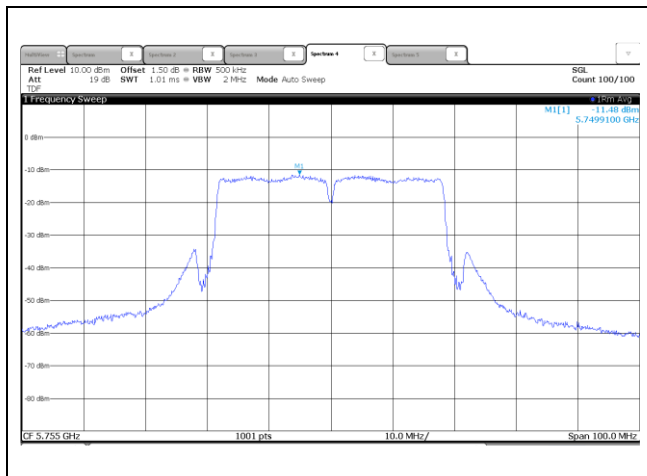


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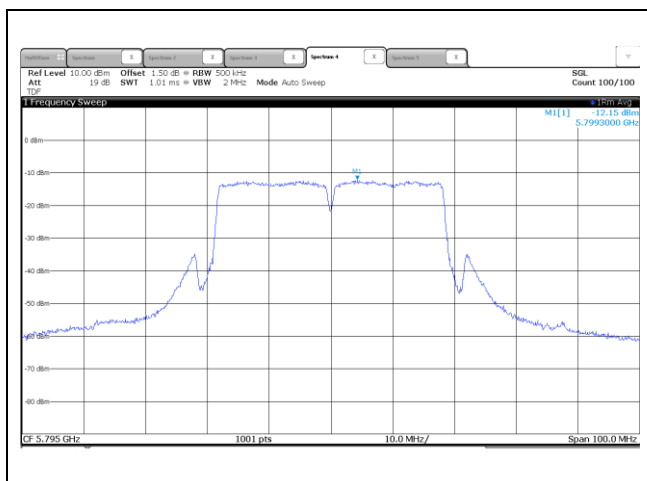


- 5 795 MHz

MIMO (ANT 1)



MIMO (ANT 2)

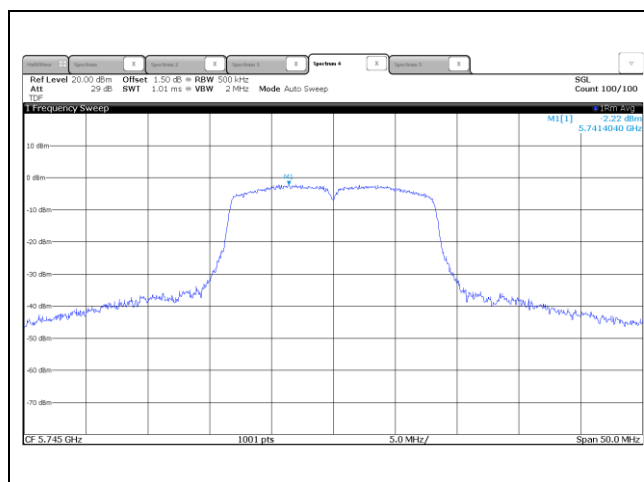


- 5 725 Band

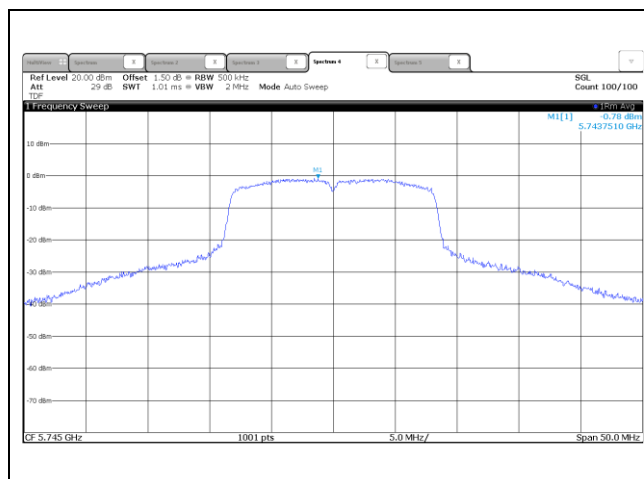
- 802.11a

- 5 745 MHz

ANT 1

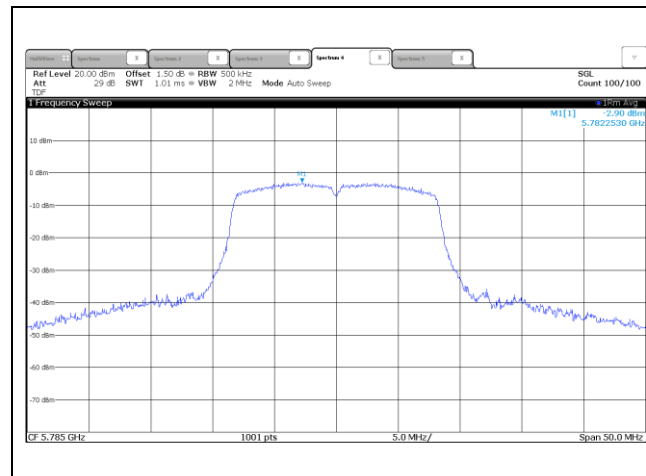


ANT 2

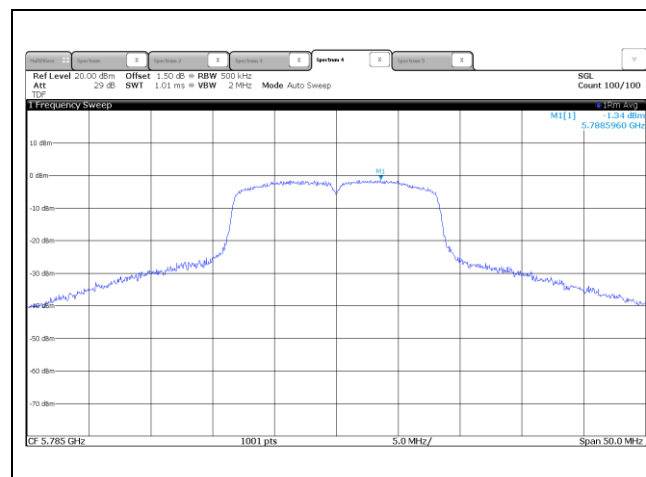


- 5 785 MHz

ANT 1

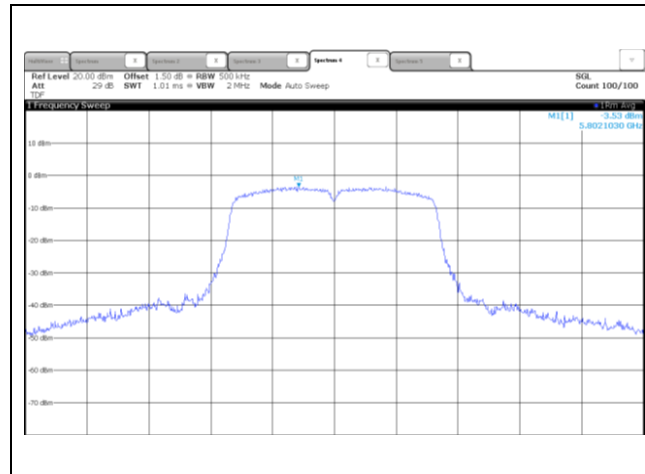


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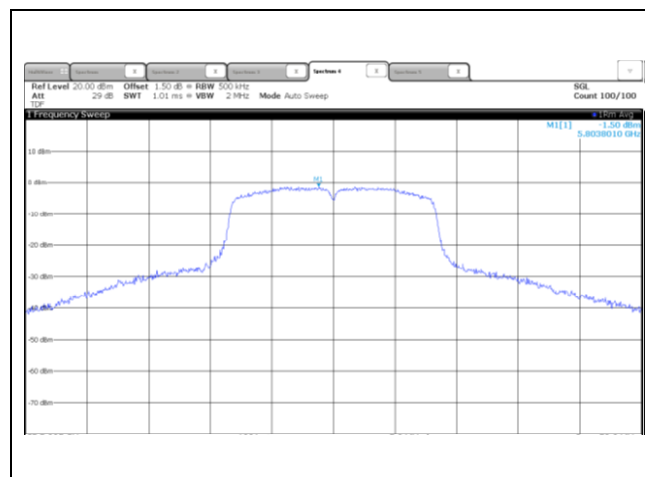


- 5 825 MHz

ANT 1



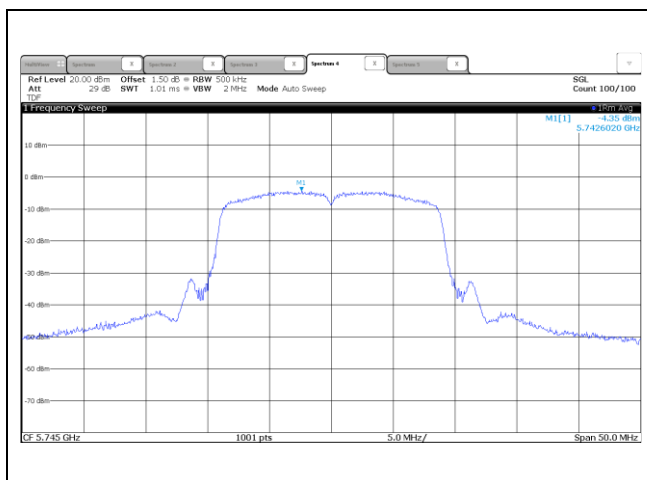
ANT 2



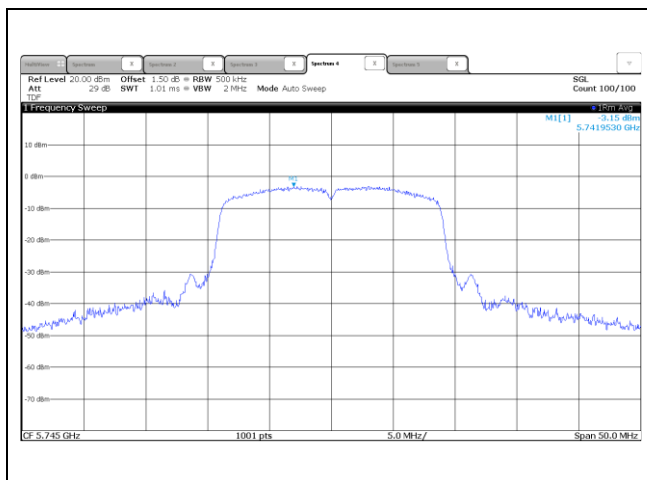
- 802.11n HT20

- 5 745 MHz

ANT 1

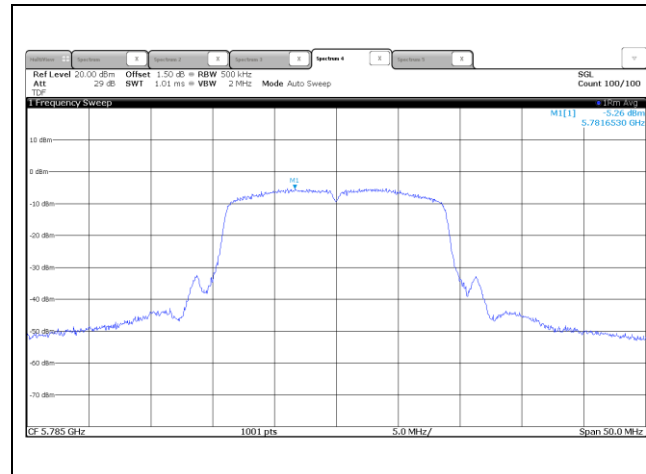


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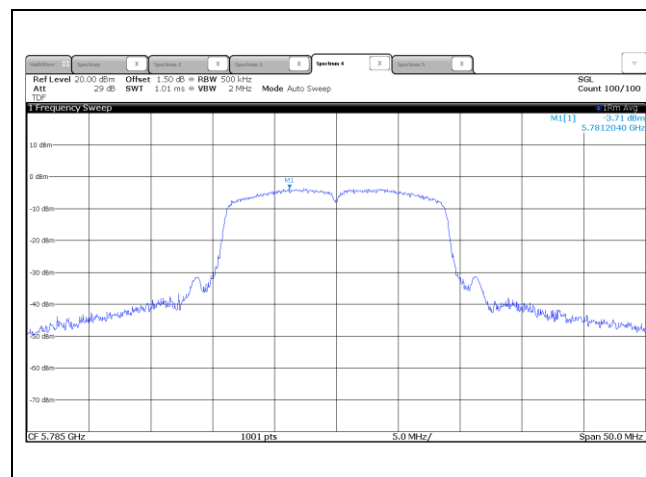


- 5 785 MHz

ANT 1

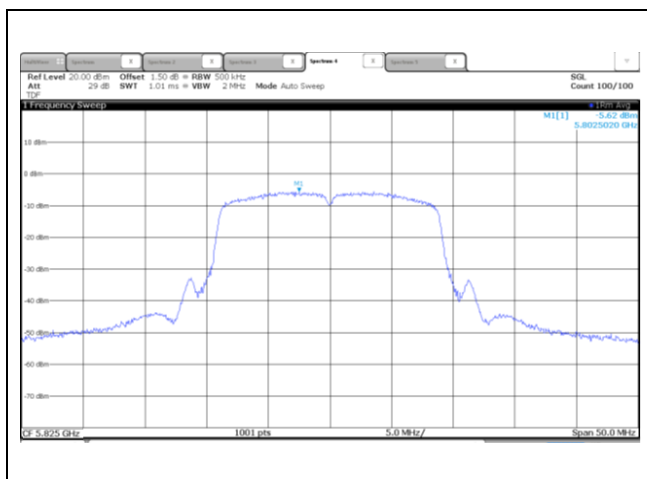


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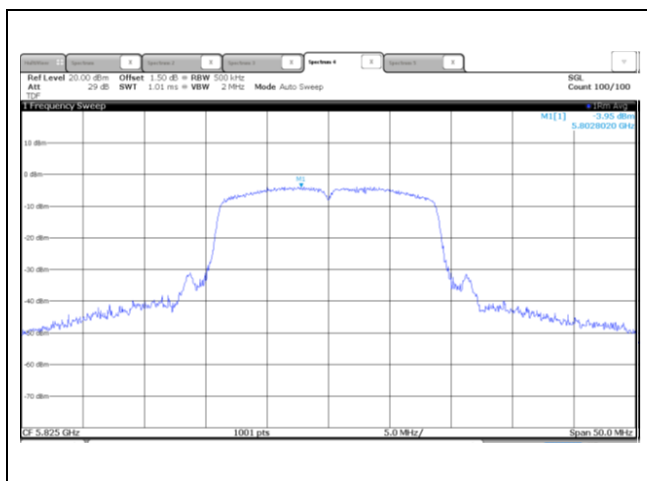


- 5 785 MHz

ANT 1



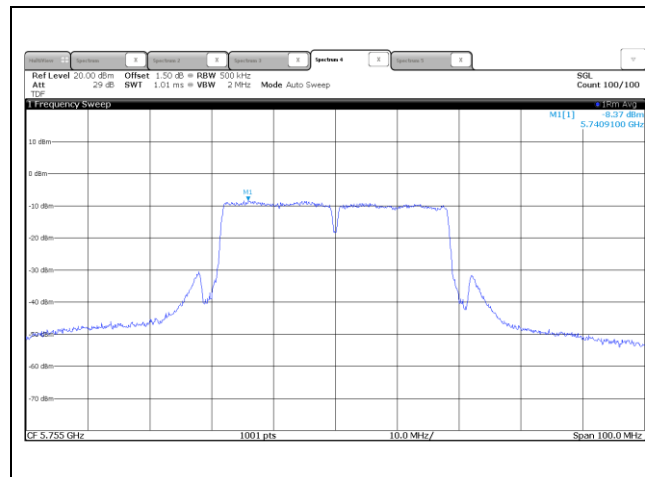
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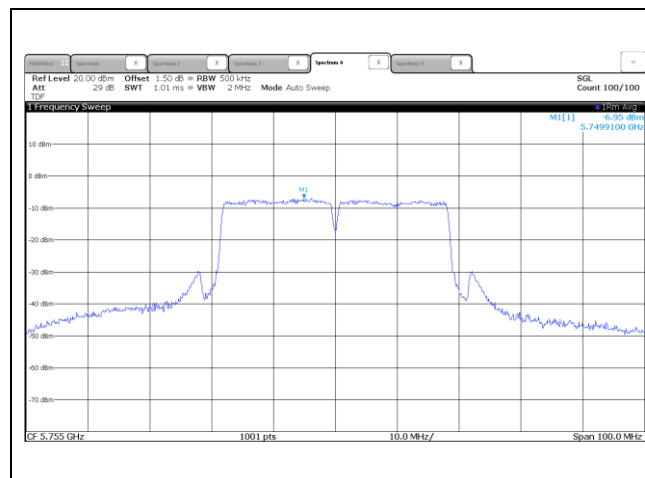
- 802.11n HT40

- 5 755 MHz

ANT 1

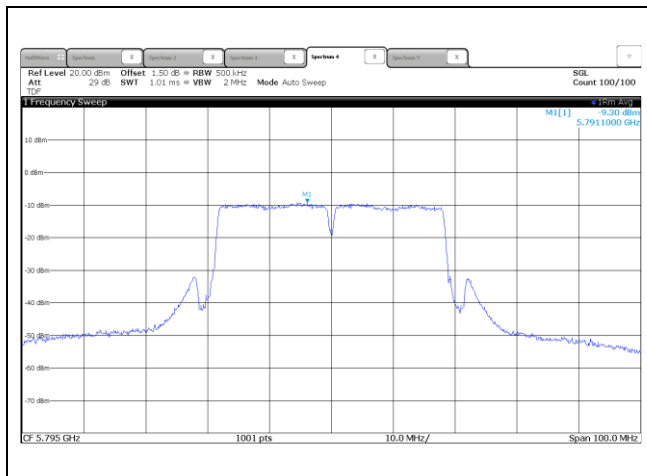


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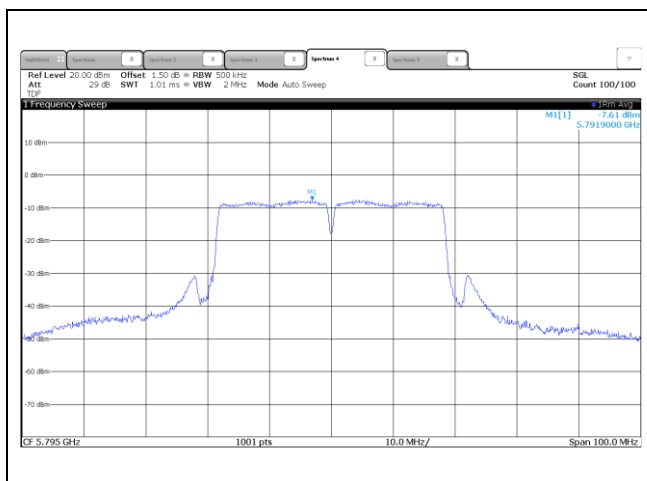


- 5 795 MHz

ANT 1



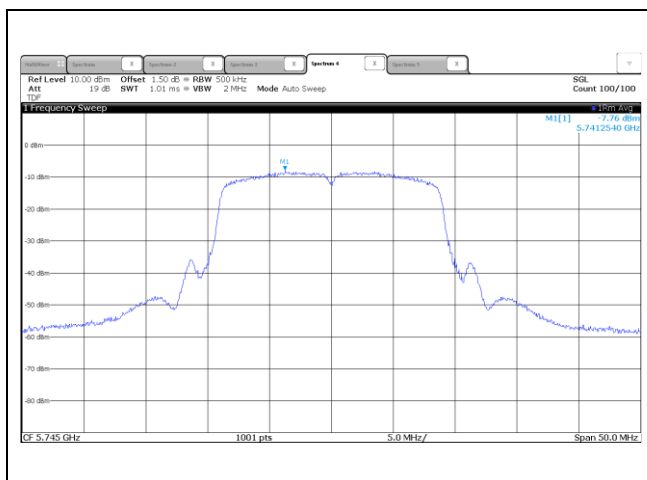
ANT 2



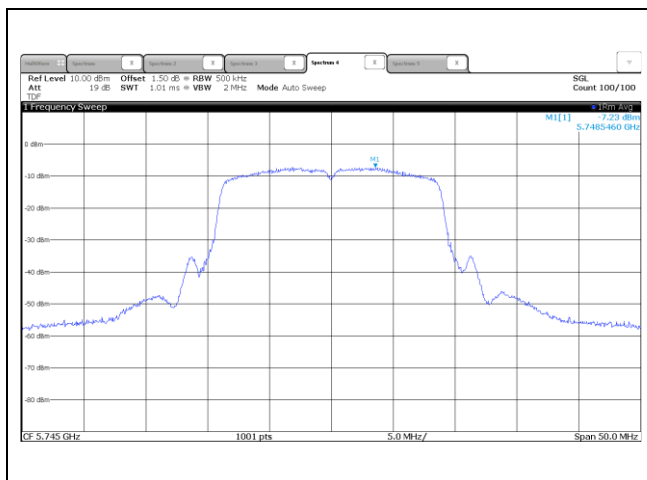
- 802.11n HT20

- 5 745 MHz

MIMO (ANT 1)

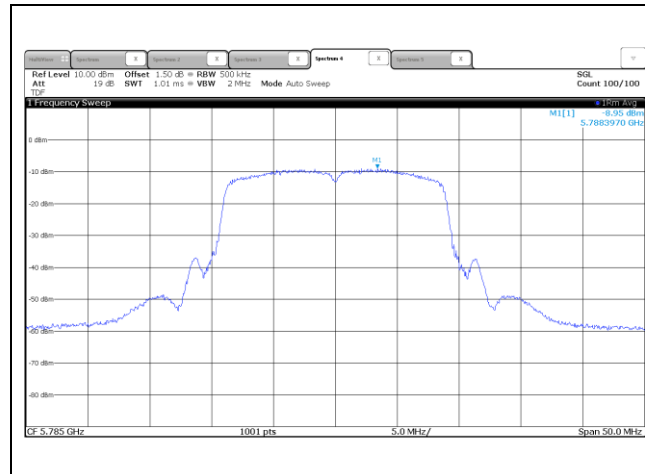


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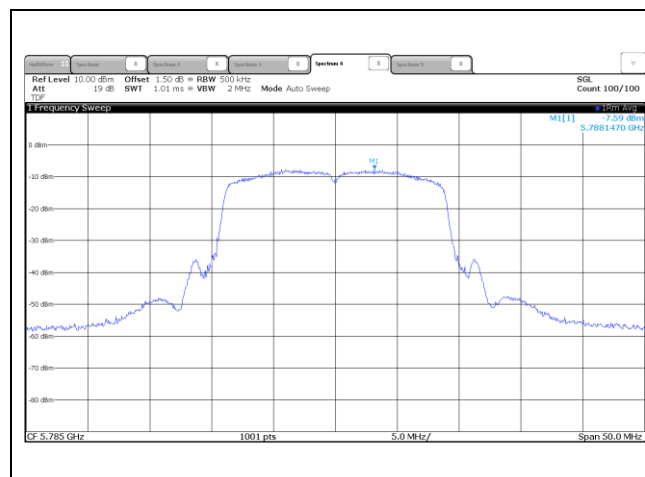


- 5 785 MHz

MIMO (ANT 1)

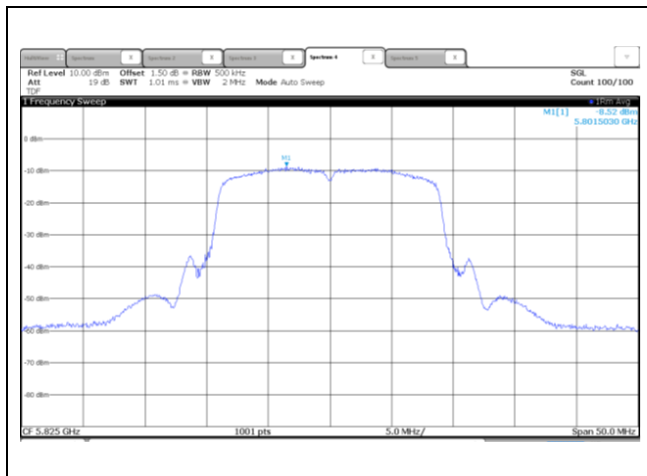


MIMO (ANT 2)

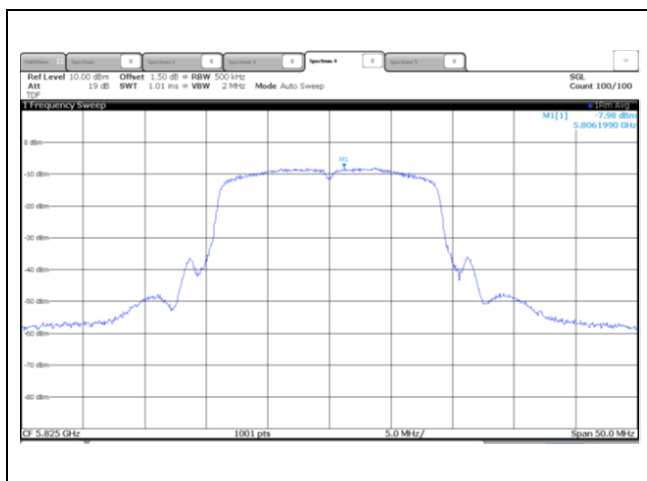


- 5 825 MHz

MIMO (ANT 1)



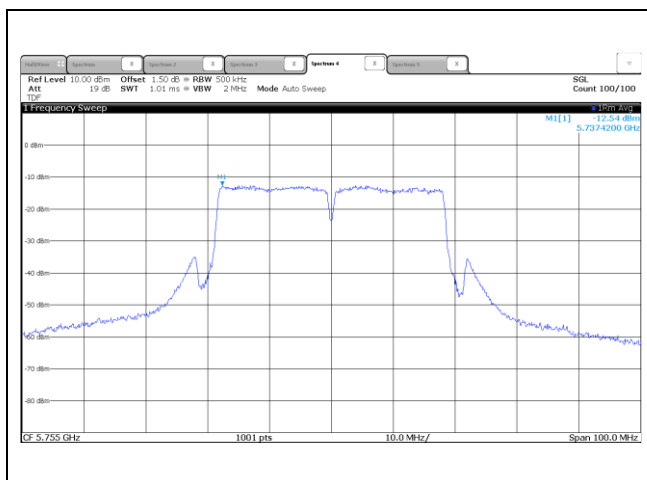
MIMO (ANT 2)



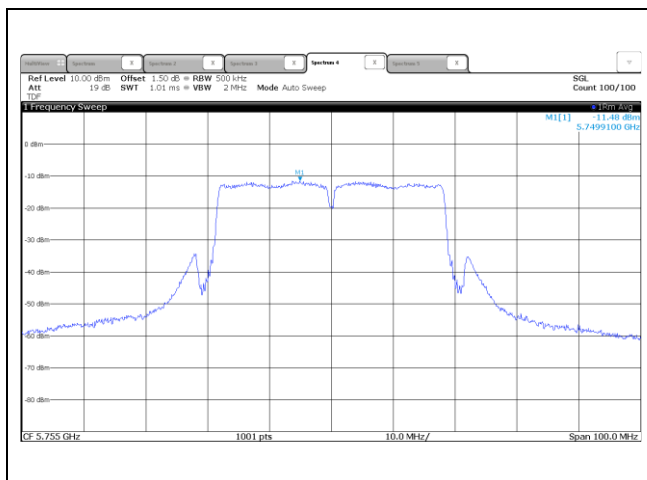
- 802.11n HT40

- 5 755 MHz

MIMO (ANT 1)

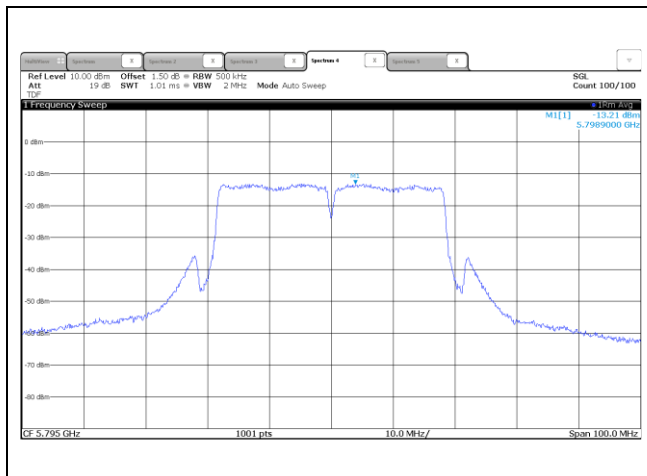


MIMO (ANT 2)

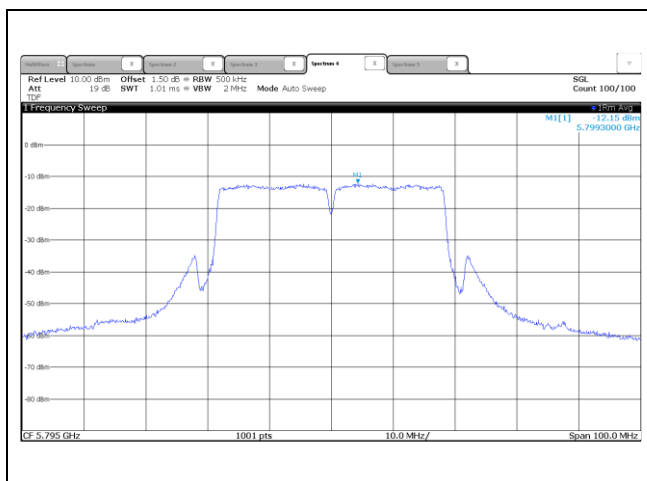


- 5 795 MHz

MIMO (ANT 1)



MIMO (ANT 2)



5.5 Spurious Emission, Band Edge And Restricted Bands

5.5.1 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 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.

According to §15.407(b) 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.

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	2 400/F(kHz)	300
0.490 -1.705	24 000/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.

According to § 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525 25	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	156.7 - 156.9	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	162.012 5 - 167.17	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	240 - 285	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	322 - 335.4	3 600 - 4 400	Above 38.6
13.36 - 13.41			

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

5.5.2 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).

5.5.2.1 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:

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

5.5.2.2 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.
5. The 0.8m height is measurement for below 1 GHz and 1.5m is for above 1 GHz measurement.

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.

5.5.3 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)

802.11a_ANT 1_Middle Channel (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]
Quasi-Peak DATA. Emissions below 30 Mhz							
Below 30.00	Not Detected	-	-	-	-	-	-
Quasi-Peak DATA. Emissions below 1 GHz							
254.92	120	H	37.40	-16.40	21.00	46.00	25.00
424.91	120	H	32.90	-11.80	21.10	46.00	24.90
636.01	120	V	37.30	-7.40	29.90	46.00	16.10
765.02		V	35.60	-6.20	29.40	46.00	16.60
Above 800.00	Not Detected	-	-	-	-	-	-

- Above 1 GHz data

5 150 Band

- ANT 1

802.11a_Lowest Channel (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 587.81	1 000	H	45.30	-2.00	-	43.30	68.20	24.90
1 908.88	1 000	H	47.60	1.00	-	48.60	68.20	19.60
2 463.69	1 000	V	53.50	3.60	-	57.10	68.20	11.10
2 862.44	1 000	H	42.80	3.70	-	46.50	68.20	21.70
5 149.75 ¹⁾	1 000	H	55.80	9.40	-	65.20	74.00	8.80
8 189.06 ¹⁾	1 000	H	34.20	15.80	-	50.00	74.00	24.00
9 199.62 ¹⁾	1 000	V	36.50	16.70	-	53.20	74.00	20.80
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 149.75	1 000	H	40.35	9.40	0.15	49.90	54.00	4.10
8 189.06 ¹⁾	1 000	H	23.80	15.80	0.15	39.75	54.00	14.25
9 199.62 ¹⁾	1 000	V	25.20	16.70	0.15	42.05	54.00	11.95
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Middle Channel (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 592.63	1 000	H	43.50	-1.90	-	41.60	68.20	26.60
1 908.19	1 000	V	47.00	1.00	-	48.00	68.20	20.20
2 463.69	1 000	V	53.20	3.60	-	56.80	68.20	11.40
2 725.63 ¹⁾	1 000	H	39.90	3.90	-	43.80	74.00	30.20
6 980.13	1 000	H	36.60	14.30	-	50.90	68.20	17.30
10 999.37 ¹⁾	1 000	H	33.10	20.00	-	53.10	74.00	20.90
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 725.63 ¹⁾	1 000	H	26.60	3.90	0.15	30.65	54.00	23.35
10 999.37 ¹⁾	1 000	H	23.20	20.00	0.15	43.35	54.00	10.65
Above 11 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Highest Channel (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 035.06 ¹⁾	1 000	H	54.20	-1.80	-	52.40	74.00	21.60
1 908.19	1 000	V	45.90	1.00	-	46.90	68.20	21.30
2 460.94	1 000	V	53.60	3.60	-	57.20	68.20	11.00
5 386.94 ¹⁾	1 000	H	48.90	8.90	-	57.80	74.00	16.20
6 905.38	1 000	H	36.80	14.20	-	51.00	68.20	17.20
8 220.69 ¹⁾	1 000	H	34.90	15.90	-	50.80	74.00	23.20
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 035.06 ¹⁾	1 000	H	51.30	-1.80	0.15	49.65	54.00	4.35
5 386.94 ¹⁾	1 000	H	40.50	8.90	0.15	49.55	54.00	4.45
8 220.69 ¹⁾	1 000	H	23.80	15.90	0.15	39.85	54.00	14.15
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Lowest Channel (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.88	1 000	H	49.00	1.00	-	50.00	68.20	18.20
2 461.63	1 000	V	52.90	3.60	-	56.50	68.20	11.70
4 161.81 ¹⁾	1 000	H	41.10	6.90	-	48.00	74.00	26.00
5 149.75 ¹⁾	1 000	H	53.50	9.40	-	62.90	74.00	11.10
8 219.25 ¹⁾	1 000	H	35.00	15.90	-	50.90	74.00	23.10
9 123.44 ¹⁾	1 000	H	34.20	16.90	-	51.10	74.00	22.90
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
4 161.81 ¹⁾	1 000	H	25.80	6.90	0.16	32.86	54.00	21.14
5 149.75 ¹⁾	1 000	H	40.34	9.40	0.16	49.90	54.00	4.10
8 219.25 ¹⁾	1 000	H	23.90	15.90	0.16	39.96	54.00	14.04
9 123.44 ¹⁾	1 000	H	23.40	16.90	0.16	40.46	54.00	13.54
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Middle Channel (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 730.81	1 000	H	53.60	-0.70	-	52.90	68.20	15.30
1 908.19	1 000	H	50.90	1.00	-	51.90	68.20	16.30
2 425.88	1 000	H	50.00	3.50	-	53.50	68.20	14.70
3 813.25 ¹⁾	1 000	V	42.20	6.00	-	48.20	74.00	25.80
8 248.00 ¹⁾	1 000	H	34.50	15.90	-	50.40	74.00	23.60
10 157.00	1 000	H	32.80	18.10	-	50.90	68.20	17.30
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
3 813.25 ¹⁾	1 000	V	25.80	6.00	0.16	31.96	54.00	22.04
8 248.00 ¹⁾	1 000	H	23.60	15.90	0.16	39.66	54.00	14.34
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 033.69 ¹⁾	1 000	H	53.80	-1.80	-	52.00	74.00	22.00
1 731.50 ¹⁾	1 000	V	67.60	-0.70	-	66.90	74.00	7.10
1 907.50	1 000	H	49.80	1.00	-	50.80	68.20	17.40
2 461.63	1 000	V	51.50	3.60	-	55.10	68.20	13.10
5 392.44 ¹⁾	1 000	H	49.20	8.90	-	58.10	74.00	15.90
8 263.81 ¹⁾	1 000	H	34.90	16.00	-	50.90	74.00	23.10
8 800.00		H	33.90	16.70	-	50.60	68.20	17.60
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 033.69 ¹⁾	1 000	H	50.30	-1.80	0.16	48.66	54.00	5.34
1 731.50 ¹⁾	1 000	V	30.50	-0.70	0.16	29.96	54.00	24.04
5 392.44 ¹⁾	1 000	H	40.70	8.90	0.16	49.76	54.00	4.24
8 263.81 ¹⁾	1 000	H	23.10	16.00	0.16	39.26	54.00	14.74
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Lowest Channel (5 190 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 589.19	1 000	H	44.60	-2.00	-	42.60	68.20	25.60
1 908.88	1 000	H	44.10	1.00	-	45.10	68.20	23.10
2 460.94	1 000	V	52.80	3.60	-	56.40	68.20	11.80
5 145.63 ¹⁾	1 000	H	57.20	9.40	-	66.60	74.00	7.40
8 574.31	1 000	H	34.60	16.40	-	51.00	68.20	17.20
10 236.06	1 000	H	32.60	18.30	-	50.90	68.20	17.30
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 145.63 ¹⁾	1 000	H	39.89	9.40	0.31	49.60	54.00	4.40
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Highest Channel (5 230 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	41.30	1.00	-	42.30	68.20	25.90
2 545.50	1 000	H	42.80	3.70	-	46.50	68.20	21.70
3 044.63	1 000	V	39.70	2.50	-	42.20	68.20	26.00
5 384.19 ¹⁾	1 000	H	47.70	8.90	-	56.60	74.00	17.40
9 162.25 ¹⁾	1 000	H	34.30	16.80	-	51.10	74.00	22.90
9 983.06	1 000	H	33.90	17.60	-	51.50	68.20	16.70
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 384.19 ¹⁾	1 000	H	37.00	8.90	0.31	46.21	54.00	7.79
9 162.25 ¹⁾	1 000	H	23.40	16.80	0.31	40.51	54.00	13.49
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

- ANT 2

802.11a_Lowest Channel (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	50.30	1.00	-	51.30	68.20	16.90
2 225.13 ¹⁾	1 000	H	42.10	3.20	-	45.30	74.00	28.70
2 544.13	1 000	H	45.30	3.70	-	49.00	68.20	19.20
5 028.75 ¹⁾	1 000	H	46.50	8.80	-	55.30	74.00	18.70
8 291.12 ¹⁾	1 000	H	34.50	16.10	-	50.60	74.00	23.40
10 963.44 ¹⁾	1 000	H	32.60	19.90	-	52.50	74.00	21.50
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 225.13 ¹⁾	1 000	H	30.40	3.20	0.15	33.75	54.00	20.25
5 028.75 ¹⁾	1 000	H	37.60	8.80	0.15	46.55	54.00	7.45
8 291.12 ¹⁾	1 000	H	23.30	16.10	0.15	39.55	54.00	14.45
10 963.44 ¹⁾	1 000	H	22.20	19.90	0.15	42.25	54.00	11.75
Above 11 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Middle Channel (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1908.19	1 000	H	48.10	1.00	-	49.10	68.20	19.10
2227.88 ¹⁾	1 000	H	43.80	3.20	-	47.00	74.00	27.00
2544.13	1 000	H	45.80	3.70	-	49.50	68.20	18.70
3180.06	1 000	H	41.70	3.40	-	45.10	68.20	23.10
8219.25 ¹⁾	1 000	H	33.90	15.90	-	49.80	74.00	24.20
8831.62	1 000	H	34.50	16.70	-	51.20	68.20	17.00
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2227.88 ¹⁾	1 000	H	30.60	3.20	0.15	33.95	54.00	20.05
8219.25 ¹⁾	1 000	H	31.50	15.90	0.15	47.55	54.00	6.45
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Highest Channel (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 730.13	1 000	H	52.40	-0.70	-	51.70	68.20	16.50
1 908.19	1 000	H	49.60	1.00	-	50.60	68.20	17.60
2 225.81 ¹⁾	1 000	H	43.40	3.20	-	46.60	74.00	27.40
2 544.13	1 000	H	43.80	3.70	-	47.50	68.20	20.70
5 384.88 ¹⁾	1 000	H	45.40	8.90	-	54.30	74.00	19.70
8 260.94 ¹⁾	1 000	H	34.50	16.00	-	50.50	74.00	23.50
8 751.12	1 000	H	31.80	16.60	-	48.40	68.20	19.80
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 225.81 ¹⁾	1 000	H	30.20	3.20	0.15	33.55	54.00	20.45
5 384.88 ¹⁾	1 000	H	36.50	8.90	0.15	45.55	54.00	8.45
8 260.94 ¹⁾	1 000	H	22.90	16.00	0.15	39.05	54.00	14.95
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Lowest Channel (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	50.90	1.00	-	51.90	68.20	16.30
2 223.75 ¹⁾	1 000	H	44.60	3.20	-	47.80	74.00	26.20
2 543.44	1 000	V	45.60	3.70	-	49.30	68.20	18.90
5 033.56 ¹⁾	1 000	H	45.60	8.90	-	54.50	74.00	19.50
6 951.38	1 000	H	36.40	14.20	-	50.60	68.20	17.60
8344.31	1 000	H	34.40	16.20	-	50.60	68.20	17.60
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 223.75 ¹⁾	1 000	H	29.90	3.20	0.16	33.26	54.00	20.74
5 033.56 ¹⁾	1 000	H	35.80	8.90	0.16	44.86	54.00	9.14
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Middle Channel (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 907.50	1 000	H	49.70	1.00	-	50.70	68.20	17.50
2 225.81 ¹⁾	1 000	H	42.90	3.20	-	46.10	74.00	27.90
2 543.44	1 000	H	42.80	3.70	-	46.50	68.20	21.70
3 178.00	1 000	V	41.40	3.40	-	44.80	68.20	23.40
9 142.12 ¹⁾	1 000	H	34.50	16.80	-	51.30	74.00	22.70
9 885.31	1 000	H	33.80	17.30	-	51.10	68.20	17.10
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 225.81 ¹⁾	1 000	H	30.20	3.20	0.16	33.56	54.00	20.44
9 142.12 ¹⁾	1 000	H	23.50	16.80	0.16	40.46	54.00	13.54
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	44.10	-1.90	-	42.20	74.00	31.80
1 906.81	1 000	H	41.90	1.00	-	42.90	68.20	25.30
2 771.69 ¹⁾	1 000	H	40.40	3.80	-	44.20	74.00	29.80
5 391.75 ¹⁾	1 000	H	47.40	8.90	-	56.30	74.00	17.70
7 795.19	1 000	H	34.00	15.10	-	49.10	68.20	19.10
9 188.12 ¹⁾	1 000	H	34.00	16.80	-	50.80	74.00	23.20
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	29.60	-1.90	0.16	27.86	54.00	26.14
2 771.69 ¹⁾	1 000	H	29.70	3.80	0.16	33.66	54.00	20.34
5 391.75 ¹⁾	1 000	H	37.00	8.90	0.16	46.06	54.00	7.94
9 188.12 ¹⁾	1 000	H	22.80	16.80	0.16	39.60	54.00	14.40
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Lowest Channel (5 190 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 249.88 ¹⁾	1 000	V	38.60	3.30	-	41.90	74.00	32.10
2 707.06 ¹⁾	1 000	V	35.60	3.90	-	39.50	74.00	34.50
3 018.50	1 000	H	37.80	2.60	-	40.40	68.20	27.80
5 147.69 ¹⁾	1 000	H	45.50	9.40	-	54.90	74.00	19.10
8 838.81	1 000	H	33.60	16.70	-	50.30	68.20	17.90
10 507.75	1 000	H	32.80	19.00	-	51.80	68.20	16.40
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 249.88 ¹⁾	1 000	V	27.20	3.30	0.31	30.81	54.00	23.19
2 707.06 ¹⁾	1 000	V	30.50	3.90	0.31	34.71	54.00	19.29
5 147.69 ¹⁾	1 000	H	33.20	9.40	0.31	42.91	54.00	11.09
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Highest Channel (5 230 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 731.50 ¹⁾	1 000	V	54.50	-0.70	-	53.80	68.20	14.40
2 317.94	1 000	H	41.00	3.40	-	44.40	74.00	29.60
3 180.06 ¹⁾	1 000	H	43.70	3.40	-	47.10	68.20	21.10
5 371.13	1 000	H	43.60	8.90	-	52.50	74.00	21.50
8 726.69	1 000	V	34.30	16.50	-	50.80	68.20	17.40
10 624.19 ¹⁾	1 000	H	34.00	19.20	-	53.20	74.00	20.80
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 317.94 ¹⁾	1 000	H	30.50	3.40	0.31	34.21	54.00	19.79
5 371.13 ¹⁾	1 000	H	32.80	8.90	0.31	42.01	54.00	11.99
10 624.19 ¹⁾	1 000	H	22.80	19.20	0.31	42.31	54.00	11.69
Above 11 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

- MIMO (ANT 1+2)

802.11n HT20_Lowest Channel (5 180 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 738.38	1 000	H	52.00	-0.70	-	51.30	68.20	16.90
3 180.06	1 000	H	41.70	3.40	-	45.10	68.20	23.10
4 751.69 ¹⁾	1 000	H	42.50	9.00	-	51.50	74.00	22.50
5 142.88 ¹⁾	1 000	H	57.10	9.40	-	66.50	74.00	7.50
8 801.44	1 000	V	34.50	15.80	-	50.30	68.20	17.90
9 672.56	1 000	V	34.40	15.90	-	50.30	68.20	17.90
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
4 751.69 ¹⁾	1 000	H	31.70	9.00	0.31	41.01	54.00	12.99
5 142.88 ¹⁾	1 000	H	38.80	9.40	0.31	48.51	54.00	5.49
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Middle Channel (5 200 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μV)]	Factor [dB]	DCCF [dB]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 745.25	1 000	H	52.20	-0.60	-	51.60	68.20	16.60
1 908.19	1 000	H	50.00	1.00	-	51.00	68.20	17.20
2 460.94	1 000	H	45.50	3.60	-	49.10	68.20	19.10
2 543.44	1 000	V	44.30	3.70	-	48.00	68.20	20.20
8 236.50	1 000	H	35.000	14.700	-	49.700	74.000	24.300
9 209.69	1 000	H	34.100	16.000	-	50.100	68.200	18.100
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
8 236.50	1 000	H	24.20	14.70	0.31	39.21	54.00	14.79
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 240 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	49.10	1.00	-	50.10	68.20	18.10
2 544.13	1 000	H	42.70	3.70	-	46.40	68.20	21.80
3 178.69	1 000	V	40.80	3.40	-	44.20	68.20	24.00
5 391.75	1 000	H	51.10	8.90	-	60.00	74.00	14.00
8 683.56	1 000	H	34.30	15.60	-	49.90	68.20	18.30
9 754.50	1 000	H	35.10	16.10	-	51.20	68.20	17.00
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 391.75	1 000	H	40.79	8.90	0.31	50.00	54.00	4.00
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Lowest Channel (5 190 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	47.20	1.00	-	48.20	68.20	20.00
3 186.94	1 000	H	45.70	3.50	-	49.20	68.20	19.00
2 543.44 ¹⁾	1 000	V	41.70	3.70	-	45.40	74.00	28.60
5 146.31 ¹⁾	1 000	H	54.60	9.40	-	64.00	74.00	10.00
12 057.37 ¹⁾	1 000	H	32.90	21.10	-	54.00	74.00	20.00
13 093.81	1 000	H	32.40	21.70	-	54.10	68.20	14.10
Above 14 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 543.44 ¹⁾	1 000	V	31.50	3.70	0.57	35.77	54.00	18.23
5 146.31 ¹⁾	1 000	H	39.10	9.40	0.57	49.07	54.00	4.93
12 057.37 ¹⁾	1 000	H	22.50	21.10	0.57	44.17	54.00	9.83
Above 13 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT40_Highest Channel (5 230 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	49.40	1.00	-	50.40	68.20	17.80
2 498.75 ¹⁾	1 000	H	41.00	3.60	-	44.60	74.00	29.40
2 771.00 ¹⁾	1 000	V	39.70	3.80	-	43.50	74.00	30.50
5 374.56 ¹⁾	1 000	H	47.50	8.90	-	56.40	74.00	17.60
8 787.06	1 000	H	35.30	15.80	-	51.10	68.20	17.10
12 698.50 ¹⁾	1 000	H	33.30	21.80	-	55.10	74.00	18.90
Above 13 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 498.75 ¹⁾	1 000	H	29.30	3.60	0.57	33.47	54.00	20.53
2 771.00 ¹⁾	1 000	V	28.90	3.80	0.57	33.27	54.00	20.73
5 374.56 ¹⁾	1 000	H	38.80	8.90	0.57	48.27	54.00	5.73
12 698.50 ¹⁾	1 000	H	23.50	21.80	0.57	45.87	54.00	8.13
Above 13 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

5 725 Band

- ANT 1

802.11a_Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 317.25 ¹⁾	1 000	H	42.20	3.40	-	45.60	74.00	28.40
3 179.38	1 000	H	41.70	3.40	-	45.10	68.20	23.10
5 318.19	1 000	H	54.10	9.00	-	63.10	68.20	5.10
5 709.38 ²⁾	1 000	H	40.80	10.70	-	51.50	68.20	16.70
5 723.13 ²⁾	1 000	H	47.10	10.80	-	57.90	78.20	20.30
9 491.44 ¹⁾	1 000	H	34.80	16.30	-	51.10	74.00	22.90
10 203.00	1 000	H	33.90	18.20	-	52.10	68.20	16.10
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 317.25 ¹⁾	1 000	H	31.30	3.40	0.15	34.85	54.00	19.15
9 491.44 ¹⁾	1 000	H	23.50	16.30	0.15	39.95	54.00	14.05
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11a_Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 225.81 ¹⁾	1 000	H	42.20	3.20	-	45.40	74.00	28.60
2 544.13	1 000	H	46.00	3.70	-	49.70	68.20	18.50
2 856.94 ¹⁾	1 000	H	39.70	3.70	-	43.40	74.00	30.60
5 336.06	1 000	H	55.20	8.90	-	64.10	68.20	4.10
8 260.94 ¹⁾	1 000	V	34.40	16.00	-	50.40	74.00	23.60
8 778.44	1 000	H	34.10	16.60	-	50.70	68.20	17.50
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 225.81 ¹⁾	1 000	H	31.10	3.20	0.15	34.45	54.00	19.55
2 856.94 ¹⁾	1 000	H	31.80	3.70	0.15	35.65	54.00	18.35
8 260.94 ¹⁾	1 000	V	23.40	16.00	0.15	39.55	54.00	14.45
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 012.69	1 000	H	47.90	2.30	-	50.20	68.20	18.00
3 701.19 ¹⁾	1 000	H	43.30	5.50	-	48.80	74.00	25.20
5 414.44	1 000	H	53.50	8.90	-	62.40	68.20	5.80
5 826.25 ²⁾	1 000	H	42.70	11.20	-	53.90	78.20	24.30
5 842.06 ²⁾	1 000	H	38.90	11.10	-	50.00	68.20	18.20
6 911.13	1 000	H	37.20	14.20	-	51.40	68.20	16.80
7 872.81	1 000	H	34.30	15.10	-	49.40	68.20	18.80
Above 8 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
3 701.19 ¹⁾	1 000	H	30.30	5.50	0.15	35.95	54.00	18.05
Above 4 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT20_Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	50.70	1.00	-	51.70	68.20	16.50
2 544.13	1 000	H	44.50	3.70	-	48.20	68.20	20.00
5 323.69	1 000	H	54.80	8.90	-	63.70	68.20	4.50
5 712.81 ²⁾	1 000	H	45.50	10.70	-	56.20	68.20	12.00
5 723.13 ²⁾	1 000	H	47.90	10.80	-	58.70	78.20	19.50
8 204.87 ¹⁾	1 000	H	35.20	15.80	-	51.00	74.00	23.00
10 174.25 ¹⁾	1 000	H	33.70	18.20	-	51.90	74.00	22.10
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
8 204.87 ¹⁾	1 000	H	24.80	15.80	0.16	40.76	54.00	13.24
10 174.25 ¹⁾	1 000	H	22.60	18.20	0.16	40.96	54.00	13.04
Above 11 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT20_Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 590.56 ¹⁾	1 000	H	46.50	-1.90	-	44.60	74.00	29.40
2 544.81	1 000	H	42.20	3.70	-	45.90	68.20	22.30
3 180.75	1 000	H	41.20	3.40	-	44.60	68.20	23.60
3 844.19 ¹⁾	1 000	H	38.70	5.90	-	44.60	74.00	29.40
7 696.00 ¹⁾	1 000	H	33.10	15.00	-	48.10	74.00	25.90
9 556.12	1 000	H	33.90	16.40	-	50.30	68.20	17.90
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 590.56 ¹⁾	1 000	H	30.30	-1.90	0.16	28.56	54.00	25.44
3 844.19 ¹⁾	1 000	H	31.60	5.90	0.16	37.66	54.00	16.34
7 696.00 ¹⁾	1 000	H	23.10	15.00	0.16	38.26	54.00	15.74
Above 8 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 730.81	1 000	H	56.10	-0.70	-	55.40	68.20	12.80
2 543.44	1 000	H	45.20	3.70	-	48.90	68.20	19.30
5 419.25	1 000	H	54.20	8.90	-	63.10	68.20	5.10
5 825.56 ²⁾	1 000	H	44.80	11.20	-	56.00	78.20	22.20
5 840.00 ²⁾	1 000	H	39.90	11.10	-	51.00	68.20	17.20
6 886.69	1 000	H	34.00	14.20	-	48.20	68.20	20.00
8 738.19	1 000	H	34.30	16.60	-	50.90	68.20	17.90
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
-	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Lowest Channel (5 755 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	49.80	1.00	-	50.80	68.20	17.40
2 441.69	1 000	H	49.10	3.50	-	52.60	68.20	15.60
5 385.56	1 000	H	49.90	8.90	-	58.80	68.20	9.40
5 705.25 ²⁾	1 000	H	48.50	10.60	-	59.10	68.20	9.10
5 723.13 ²⁾	1 000	H	52.50	10.80	-	63.30	78.20	14.90
8 700.81	1 000	H	33.80	16.50	-	50.30	68.20	17.90
10 149.81	1 000	V	33.20	18.10	-	51.30	68.20	17.90
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
-	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Highest Channel (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	49.70	1.00	-	50.70	68.20	17.50
2 544.13	1 000	V	45.30	3.70	-	49.00	68.20	19.20
5 381.44 ¹⁾	1 000	H	46.00	8.90	-	54.90	74.00	19.10
5 826.25 ²⁾	1 000	H	52.10	11.20	-	63.30	78.20	14.90
5 838.63 ²⁾	1 000	H	45.90	11.10	-	57.00	68.20	11.20
9 559.00	1 000	H	34.80	16.40	-	51.20	68.20	17.00
11 005.12 ¹⁾	1 000	H	32.60	20.00	-	52.60	74.00	21.40
Above 12 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 381.44 ¹⁾	1 000	H	39.30	8.90	0.31	48.51	54.00	5.49
11 005.12 ¹⁾	1 000	H	21.80	20.00	0.31	42.11	54.00	11.89
Above 12 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

- ANT 2

802.11a_Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 542.75	1 000	H	42.80	3.70	-	46.50	68.20	21.70
3 179.38	1 000	H	44.10	3.40	-	47.50	68.20	20.70
5 323.00	1 000	H	52.70	8.90	-	61.60	68.20	6.60
5 714.88 ²⁾	1 000	H	41.30	10.70	-	52.00	68.20	16.20
5 716.94 ²⁾	1 000	H	48.00	10.70	-	58.70	78.20	19.50
9 166.56 ¹⁾	1 000	H	34.40	16.80	-	51.20	74.00	22.80
10 149.81	1 000	H	33.20	18.10	-	51.30	68.20	16.90
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
9 166.56 ¹⁾	1 000	H	23.80	16.80	0.15	40.75	54.00	13.25
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11a_Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 589.88	1 000	H	46.10	-1.90	-	44.20	68.20	24.00
1 905.44	1 000	H	44.00	1.00	-	45.00	68.20	23.20
2 544.13	1 000	V	43.00	3.70	-	46.70	68.20	21.50
5 333.31	1 000	H	50.50	8.90	-	59.40	68.20	8.80
8 273.87 ¹⁾	1 000	H	34.10	16.00	-	50.10	74.00	23.90
10 448.81	1 000	H	32.90	18.90	-	51.80	68.20	16.40
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
8 273.87 ¹⁾	1 000	H	23.30	16.00	0.15	39.45	54.00	14.55
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11a_Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	45.70	-1.90	-	43.80	74.00	30.20
2 421.06	1 000	V	47.70	3.50	-	51.20	68.20	17.00
5 423.38	1 000	H	53.80	8.90	-	62.70	68.20	5.50
5 827.63 ²⁾	1 000	H	45.30	11.10	-	56.40	78.20	21.80
5 837.93	1 000	H	39.10	11.10	-	50.20	68.20	18.00
9 175.19 ¹⁾	1 000	H	34.80	16.80	-	51.60	74.00	22.40
10 881.50 ¹⁾	1 000	H	32.70	19.70	-	52.40	74.00	21.60
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	30.80	-1.90	0.15	29.05	54.00	24.95
9 175.19 ¹⁾	1 000	H	23.40	16.80	0.15	40.35	54.00	13.65
10 881.50 ¹⁾	1 000	H	22.80	19.70	0.15	42.65	54.00	11.35
Above 11 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT20_Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	46.10	-1.90	-	44.20	74.00	29.80
1 907.50	1 000	H	43.90	1.00	-	44.90	68.20	23.30
5 318.88	1 000	H	53.10	9.00	-	62.10	68.20	6.10
5 714.19 ²⁾	1 000	H	47.40	10.70	-	58.10	68.20	10.10
5 724.50 ²⁾	1 000	H	52.30	10.80	-	63.10	78.20	15.10
9 201.06	1 000	H	34.10	16.70	-	50.80	68.20	17.40
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 589.88 ¹⁾	1 000	H	29.60	-1.90	0.16	27.86	54.00	26.14
Above 2 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT20_Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 543.44	1 000	H	44.20	3.70	-	47.90	68.20	20.30
3 180.06	1 000	H	42.00	3.40	-	45.40	68.20	22.80
3 844.19 ¹⁾	1 000	V	39.70	5.90	-	45.60	74.00	28.40
5 342.25	1 000	H	51.50	8.90	-	60.40	68.20	7.80
8 769.81	1 000	H	34.00	16.60	-	50.60	68.20	17.60
9 191.00 ¹⁾	1 000	H	32.10	16.70	-	48.80	74.00	25.20
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
3 844.19 ¹⁾	1 000	V	31.20	5.90	0.16	37.26	54.00	16.74
9 191.00 ¹⁾	1 000	H	22.50	16.70	0.16	39.36	54.00	14.64
Above 10 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.19	1 000	H	50.80	1.00	-	51.80	68.20	16.40
2 229.25 ¹⁾	1 000	H	43.00	3.20	-	46.20	74.00	27.80
5 422.00	1 000	H	52.80	8.90	-	61.70	68.20	6.50
5 825.56	1 000	H	47.50	11.20	-	58.70	78.20	19.50
5 837.94 ²⁾	1 000	H	39.50	11.10	-	50.60	68.20	17.60
8 754.00 ²⁾	1 000	V	35.60	16.60	-	52.20	68.20	16.00
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 229.25 ¹⁾	1 000	H	30.20	3.20	0.16	33.56	54.00	20.44
Above 3 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Lowest Channel (5 755 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 908.88	1 000	H	47.30	1.00	-	48.30	68.20	19.90
2 543.44	1 000	V	43.40	3.70	-	47.10	68.20	21.10
5 375.94 ¹⁾	1 000	H	46.40	8.90	-	55.30	68.20	12.90
5 712.81 ²⁾	1 000	H	47.10	10.70	-	57.80	68.20	10.40
5 721.06 ²⁾	1 000	H	53.60	10.80	-	64.40	78.20	13.80
6 972.94	1 000	H	36.80	14.30	-	51.10	68.20	17.10
8 184.75 ¹⁾	1 000	H	34.40	15.80	-	50.20	74.00	23.80
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 375.94 ¹⁾	1 000	H	34.99	8.90	0.31	44.20	48.20	4.00
8 184.75 ¹⁾	1 000	H	22.90	15.80	0.31	39.01	54.00	14.99
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Highest Channel (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 907.50	1 000	H	49.70	1.00	-	50.70	68.20	17.50
2 460.94	1 000	H	43.30	3.60	-	46.90	68.20	21.30
5 369.75 ¹⁾	1 000	H	42.50	8.90	-	51.40	68.20	16.60
5 826.94 ²⁾	1 000	H	49.20	11.20	-	60.40	78.20	17.80
5 840.00 ²⁾	1 000	H	45.40	11.10	-	56.50	68.20	11.70
8 788.50	1 000	H	34.50	16.60	-	51.10	68.20	17.10
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
5 369.75 ¹⁾	1 000	H	35.89	8.90	0.31	45.10	48.20	3.10
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

- MIMO (ANT 1+2)

802.11n HT20_Lowest Channel (5 745 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 271.88 ¹⁾	1 000	H	44.30	3.30	-	47.60	74.00	26.40
2 542.75	1 000	V	45.20	3.70	-	48.90	68.20	18.30
5 322.31	1 000	H	55.80	8.90	-	64.70	68.20	3.50
5 714.88	1 000	H	45.70	10.70	-	56.40	68.20	11.60
5 724.50 ²⁾	1 000	H	52.30	10.80	-	63.10	78.20	15.10
8 906.37 ²⁾	1 000	H	34.30	16.80	-	51.10	74.00	17.10
Above 9 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 271.88 ¹⁾	1 000	H	30.50	3.30	0.31	34.11	54.00	19.89
Above 3 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT20_Middle Channel (5 785 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 449.25	1 000	H	43.70	3.50	-	47.20	68.20	21.00
3 179.38	1 000	H	41.70	3.40	-	45.10	68.20	23.10
3 844.19 ¹⁾	1 000	H	39.10	5.90	-	45.00	74.00	29.00
5 337.44	1 000	H	55.90	8.90	-	64.80	68.20	3.40
8 779.87	1 000	H	34.00	16.60	-	50.60	68.20	17.60
9 642.37	1 000	H	34.40	16.60	-	51.00	68.20	17.20
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
3 844.19 ¹⁾	1 000	H	31.50	5.90	0.31	37.71	54.00	16.29
Above 4 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band.

802.11n HT20_Highest Channel (5 825 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 544.13	1 000	H	43.00	3.70	-	46.70	68.20	21.50
2 858.31 ¹⁾	1 000	H	40.80	3.70	-	44.50	74.00	29.50
5 825.56 ²⁾	1 000	H	44.00	11.20	-	55.20	78.20	23.00
5 844.13 ²⁾	1 000	H	42.10	11.10	-	53.20	68.20	15.00
8 380.25 ¹⁾	1 000	H	33.50	16.20	-	49.70	74.00	24.30
9208.25	1 000	H	34.20	16.70	-	50.90	68.20	17.30
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
2 858.31 ¹⁾	1 000	H	29.10	3.70	0.31	33.11	54.00	20.89
8 380.25 ¹⁾	1 000	H	23.80	16.20	0.31	40.31	54.00	13.69
Above 9 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Lowest Channel (5 755 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
1 591.25 ¹⁾	1 000	H	46.00	-1.90	-	44.10	74.00	29.90
1 908.19	1 000	H	51.40	1.00	-	52.40	68.20	15.80
5 375.94	1 000	H	48.50	8.90	-	57.40	68.20	10.80
5 707.31	1 000	H	52.40	10.70	-	63.10	68.20	5.10
5 723.13	1 000	H	55.10	10.80	-	65.90	68.20	3.70
10 207.31	1 000	H	33.70	18.30	-	52.00	68.20	16.20
Above 11 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
1 591.25 ¹⁾	1 000	H	29.90	-1.90	0.57	28.57	54.00	25.43
Above 6 000.00	Not Detected	-	-	-	-	-	-	-

¹⁾ Restricted band

²⁾ Band edge.

802.11n HT40_Highest Channel (5 795 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
2 546.19	1 000	H	43.00	3.70	-	46.70	68.20	21.50
3 180.75	1 000	H	42.30	3.40	-	45.70	68.20	22.50
5 829.00	1 000	H	51.40	11.10	-	62.50	68.20	9.90
5 839.31	1 000	H	50.40	11.10	-	61.50	68.20	6.70
6 948.50	1 000	H	36.20	14.20	-	50.40	68.20	17.80
7 819.63	1 000	H	34.70	15.10	-	49.80	68.20	18.40
Above 10 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
-	Not Detected	-	-	-	-	-	-	-

5.6 Frequency Stability

5.6.1 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.

5.6.2 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.

5.6.3 Test Result

-Complied

- 5 150 Band

-802.11a/n HT20_5 180 MHz

Voltage [%]	Power [V]	Temp. [°C]	Reading Frequency [Hz]	Frequency Error [Hz]	Frequency Error [%]
100	12.0	-20	5 180 041 642	41 642	0.000 8
		-10	5 180 020 254	20 254	0.000 4
		0	5 180 005 671	5 671	0.000 1
		10	5 179 998 357	-1 643	0.000 0
		20	5 179 979 523	-20 477	-0.000 4
		30	5 179 979 936	-20 064	-0.000 4
		40	5 179 980 542	-19 458	-0.000 4
		50	5 179 980 226	-19 774	-0.000 4
		60	5 179 981 052	-18 948	-0.000 4
		20	5 179 979 912	-20 088	-0.000 4
85	10.8	20	5 179 979 925	-20 075	-0.000 4
115	13.2	20	5 179 979 920	-20 080	-0.000 4

-802.11n HT40_5 190 MHz

Voltage [%]	Power [V]	Temp. [°C]	Reading Frequency [Hz]	Frequency Error [Hz]	Frequency Error [%]
100	12.0	-20	5 190 037 686	37 686	0.000 7
		-10	5 190 005 428	5 428	0.000 1
		0	5 189 993 478	-6 522	-0.000 1
		10	5 189 981 593	-18 407	-0.000 4
		20	5 189 980 428	-19 572	-0.000 4
		30	5 189 980 924	-19 076	-0.000 4
		40	5 189 980 234	-19 766	-0.000 4
		50	5 189 980 798	-19 202	-0.000 4
		60	5 189 980 974	-19 026	-0.000 4
		20	5 189 980 168	-19 832	-0.000 4
85	10.8	20	5 189 980 345	-19 655	-0.000 4
115	13.2	20	5 189 980 253	-19 747	-0.000 4

- 5 725 Band

-802.11a/n HT20_5 745 MHz

Voltage [%]	Power [V]	Temp. [°C]	Reading Frequency [Hz]	Frequency Error [Hz]	Frequency Error [%]
100	12.0	-20	5 745 033 496	33 496	0.000 6
		-10	5 745 010 534	10 534	0.000 2
		0	5 745 000 258	258	0.000 0
		10	5 744 998 525	-1 475	0.000 0
		20	5 744 981 994	-18 006	-0.000 3
		30	5 744 980 532	-19 468	-0.000 3
		40	5 744 978 937	-21 063	-0.000 4
		50	5 744 977 783	-22 217	-0.000 4
		60	5 744 977 825	-22 175	-0.000 4
		20	5 744 981 461	-18 539	-0.000 3
85	10.8	20	5 744 981 528	-18 472	-0.000 3
115	13.2	20	5 744 981 834	-18 166	-0.000 3

-802.11n HT40_5 755 MHz

Voltage [%]	Power [V]	Temp. [°C]	Reading Frequency [Hz]	Frequency Error [Hz]	Frequency Error [%]
100	12.0	-20	5 755 033 679	33 679	0.000 6
		-10	5 755 010 157	10 157	0.000 2
		0	5 755 000 294	294	0.000 0
		10	5 754 998 394	-1 606	0.000 0
		20	5 754 981 258	-18 742	-0.000 3
		30	5 754 980 379	-19 621	-0.000 3
		40	5 754 978 261	-21 739	-0.000 4
		50	5 754 977 549	-22 451	-0.000 4
		60	5 754 977 678	-22 322	-0.000 4
		20	5 754 981 326	-18 674	-0.000 3
85	10.8	20	5 754 981 516	-18 484	-0.000 3
115	13.2	20	5 754 981 682	-18 318	-0.000 3

5.7 Conducted Emission

5.7.1 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 μ H/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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency.

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.

5.7.2 Measurement Procedure

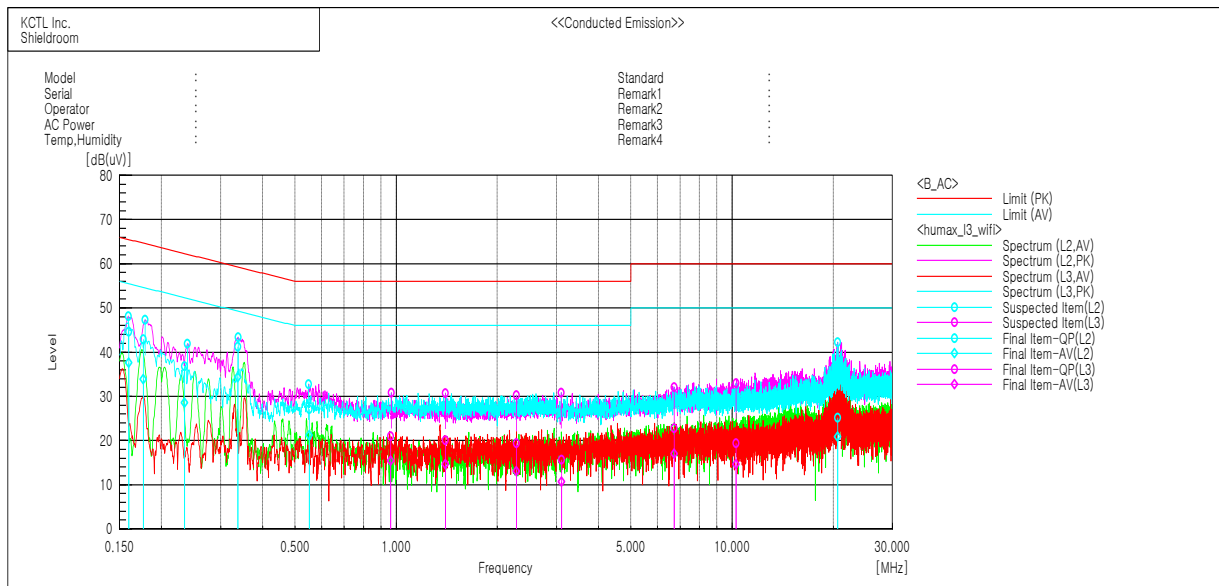
- 1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
- 2) Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, 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.

5.7.3 Test Result

- Complied

Figure 4. plot of Conducted Emission

- Conducted worst-case data : 802.11a_ANT 2_Middle Chanel (5 785 MHz)



Final Result

--- L2 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]
1	0.15991	34.5	27.5	10.1	44.6	37.6	65.5	55.5	20.9	17.9
2	0.17638	32.6	23.7	10.2	42.8	33.9	64.7	54.7	21.9	20.8
3	0.23408	26.7	18.5	10.0	36.7	28.5	62.3	52.3	25.6	23.8
4	0.33773	31.1	24.2	10.1	41.2	34.3	59.3	49.3	18.1	15.0
5	0.55145	16.7	10.9	10.3	27.0	21.2	56.0	46.0	29.0	24.8
6	20.59749	8.8	4.5	16.4	25.2	20.9	60.0	50.0	34.8	29.1

--- L3 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]
1	0.96145	10.6	5.1	10.3	20.9	15.4	56.0	46.0	35.1	30.6
2	1.40002	9.8	4.3	10.3	20.1	14.6	56.0	46.0	35.9	31.4
3	2.28074	8.5	2.2	10.8	19.3	13.0	56.0	46.0	36.7	33.0
4	3.10261	4.4	-0.6	11.2	15.6	10.6	56.0	46.0	40.4	35.4
5	6.71868	10.3	4.5	12.4	22.7	16.9	60.0	50.0	37.3	33.1
6	10.28251	6.3	1.5	13.1	19.4	14.6	60.0	50.0	40.6	35.4

6. Test equipment used for test

	Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
■	Spectrum Analyzer	R & S	FSW26	101353	17.02.24
■	Spectrum Analyzer	R & S	FSV40	100989	17.01.07
■	DC Power Supply	Agilent	E3632A	KR75304571	17.07.07
■	Signal Generator	R & S	SMR40	100007	17.06.02
■	Wideband Power Sensor	R & S	NRP-Z81	100677	17.01.08
■	EMI TEST RECEIVER	R & S	ESCI	100710	17.02.26
■	Bi-Log Antenna	SCHWARZBECK	VULB 9163	583	16.08.07
■	Amplifier	SONOMA INSTRUMENT	310N	186280	17.04.07
■	Attenuator	SCHWARZBECK	DGA9552N	BU2404	17.04.08
■	Horn antenna	ETS.lindgren	3117	155787	16.11.25
■	Horn antenna	ETS.lindgren	3116	00086635	17.05.03
■	Broadband Preamplifier	SCHWARZBECK	BBV9718	9718-233	17.01.09
■	Broadband Preamplifier	SCHWARZBECK	BBV9721	2	17.05.03
■	LOOP Antenna	R & S	HFH2-Z2	100355	18.03.03
■	Antenna Mast	MATURO	AM4.0	079/3440509	-
■	Turn Table	MATURO	CO2000-SOFT	-	-
■	Highpass Filter	Wainwright Instruments GmbH	WHKX6.5/18G-8SS	2	17.02.01
■	Vector Signal Generator	R & S	SMBV100A	257566	17.01.07