

26dB Bandwidth

802.11ac20

802.11n HT40



CH100

CH102



CH120

CH118



CH140

CH134

26dB Bandwidth

802.11ac40



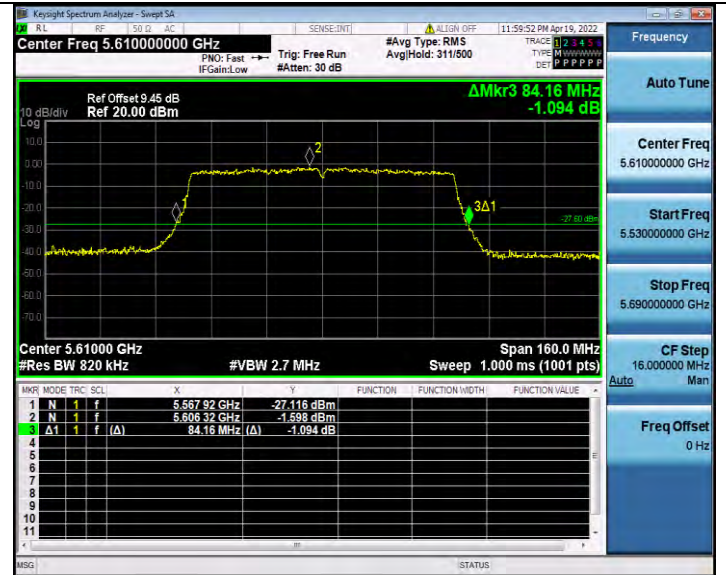
802.11ac80



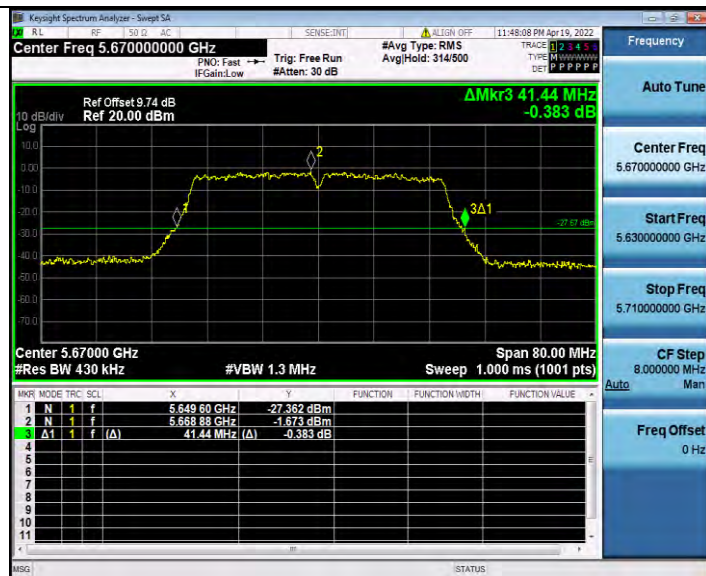
CH102



CH106



CH118



CH122

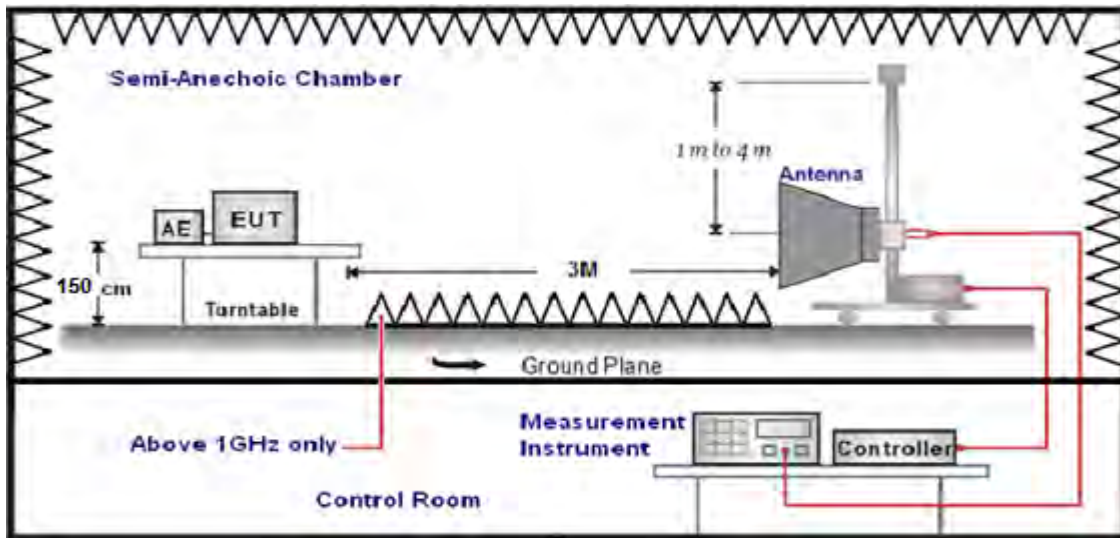


CH134



4.8. Band Edge Compliance

TEST CONFIGURATION



LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	$20\log(2400/F(KHz))+40\log(300/3)$	$2400/F(KHz)$
0.49-1.705	3	$20\log(24000/F(KHz))+40\log(30/3)$	$24000/F(KHz)$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

According to §15.407 (b): Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 (beyond 10MHz of the bandedge)	68.2
	-17 (within 10 MHz of band edge)	78.2

TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above 1GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
1GHz-18GHz	Double Ridged Horn Antenna	3

6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-18GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

TEST RESULTS

Remark:For radiated bandedge We measured at both mode, recorded worst case in antenna 0's 802.11 ac20 mode;

For Radiated Bandedge Measurement

Temperature	23.4°C	Humidity	54.5%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11a/n/ac

802.11 a/ Channel 36 :5180 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
4500.0	35.00	35.58	29.04	8.28	49.82	68.20	-18.38	Peak	Horizontal
4500.0	30.27	35.58	29.04	8.28	45.09	54.00	-8.91	AV	Horizontal
5150.0	39.19	35.58	29.04	8.28	54.01	68.20	-14.19	Peak	Horizontal
5150.0	30.68	35.58	29.04	8.28	45.50	54.00	-8.50	AV	Horizontal

802.11 a/ Channel 36 :5180 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
4500.0	35.06	35.58	29.04	8.28	49.88	68.20	-18.32	Peak	Vertical
4500.0	30.02	35.58	29.04	8.28	44.84	54.00	-9.16	AV	Vertical
5150.0	39.16	35.58	29.04	8.28	53.98	68.20	-14.22	Peak	Vertical
5150.0	30.49	35.58	29.04	8.28	45.31	54.00	-8.69	AV	Vertical

802.11 a/ Channel 48 :5240 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
5350.0	35.24	35.42	29.06	8.39	49.99	68.20	-18.21	Peak	Horizontal
5350.0	30.30	35.42	29.06	8.39	45.05	54.00	-8.95	AV	Horizontal
5460.0	39.19	35.42	29.06	8.39	53.94	68.20	-14.26	Peak	Horizontal
5460.0	30.54	35.42	29.06	8.39	45.29	54.00	-8.71	AV	Horizontal

802.11 a/ Channel 48 :5240 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
5350.0	35.19	35.42	29.06	8.39	49.94	68.20	-18.26	Peak	Vertical
5350.0	30.15	35.42	29.06	8.39	44.90	54.00	-9.10	AV	Vertical
5460.0	38.99	35.42	29.06	8.39	53.74	68.20	-14.46	Peak	Vertical
5460.0	30.59	35.42	29.06	8.39	45.34	54.00	-8.66	AV	Vertical

802.11 a/ Channel 52 :5260 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
4500.0	30.07	35.35	29.07	8.43	44.78	68.20	-23.42	Peak	Horizontal
4500.0	30.32	35.35	29.07	8.43	45.03	54.00	-8.97	AV	Horizontal
5150.0	32.19	35.35	29.07	8.43	46.90	68.20	-21.30	Peak	Horizontal
5150.0	30.70	35.35	29.07	8.43	45.41	54.00	-8.59	AV	Horizontal

802.11 a/ Channel 52 :5260 MHz									
Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
4500.0	30.06	35.35	29.07	8.43	44.77	68.20	-23.43	Peak	Vertical
4500.0	30.42	35.35	29.07	8.43	45.13	54.00	-8.87	AV	Vertical
5150.0	32.25	35.35	29.07	8.43	46.96	68.20	-21.24	Peak	Vertical
5150.0	30.52	35.35	29.07	8.43	45.23	54.00	-8.77	AV	Vertical

802.11 a/ Channel 64 :5320 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5350.0	30.22	35.3	29.11	8.51	44.92	68.20	-23.28	Peak	Horizontal
5350.0	30.14	35.3	29.11	8.51	44.84	54.00	-9.16	AV	Horizontal
5460.0	32.14	35.3	29.11	8.51	46.84	68.20	-21.36	Peak	Horizontal
5460.0	30.74	35.3	29.11	8.51	45.44	54.00	-8.56	AV	Horizontal

802.11 a/ Channel 64 :5320 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5350.0	30.28	35.3	29.11	8.51	44.98	68.20	-23.22	Peak	Vertical
5350.0	30.15	35.3	29.11	8.51	44.85	54.00	-9.15	AV	Vertical
5460.0	32.14	35.3	29.11	8.51	46.84	68.20	-21.36	Peak	Vertical
5460.0	30.69	35.3	29.11	8.51	45.39	54.00	-8.61	AV	Vertical

802.11 a/ Channel 100 :5500 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5460.0	30.11	35.29	29.13	8.65	44.92	68.20	-23.28	Peak	Horizontal
5460.0	30.17	35.29	29.13	8.65	44.98	54.00	-9.02	AV	Horizontal
5470.0	32.06	35.29	29.13	8.65	46.87	68.20	-21.33	Peak	Horizontal
5470.0	30.58	35.29	29.13	8.65	45.39	54.00	-8.61	AV	Horizontal

802.11 a/ Channel 100 :5500 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5460.0	30.04	35.29	29.13	8.65	44.85	68.20	-23.35	Peak	Vertical
5460.0	30.31	35.29	29.13	8.65	45.12	54.00	-8.88	AV	Vertical
5470.0	32.08	35.29	29.13	8.65	46.89	68.20	-21.31	Peak	Vertical
5470.0	30.73	35.29	29.13	8.65	45.54	54.00	-8.46	AV	Vertical

802.11 a/ Channel 140 :5700 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5725.0	30.14	35.29	29.18	8.8	45.05	68.20	-23.15	Peak	Horizontal
5725.0	30.39	35.29	29.18	8.8	45.30	54.00	-8.70	AV	Horizontal
5735.0	32.20	35.29	29.18	8.8	47.11	68.20	-21.09	Peak	Horizontal
5735.0	30.72	35.29	29.18	8.8	45.63	54.00	-8.37	AV	Horizontal

802.11 a/ Channel 140 :5700 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5725.0	30.03	35.29	29.18	8.8	44.94	68.20	-23.26	Peak	Vertical
5725.0	30.21	35.29	29.18	8.8	45.12	54.00	-8.88	AV	Vertical
5735.0	32.28	35.29	29.18	8.8	47.19	68.20	-21.01	Peak	Vertical
5735.0	30.51	35.29	29.18	8.8	45.42	54.00	-8.58	AV	Vertical

802.11 a/ Channel 149 :5745 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5650.0	45.99	35.29	29.18	8.8	60.90	68.20	-7.30	Peak	Horizontal
5700.0	34.96	35.29	29.18	8.8	49.87	68.20	-18.33	Peak	Horizontal
5720.0	46.99	35.29	29.18	8.8	61.90	68.20	-6.30	Peak	Horizontal
5725.0	35.52	35.29	29.18	8.8	50.43	68.20	-17.77	Peak	Horizontal

802.11 a/ Channel 149 :5745 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5650.0	45.86	35.29	29.18	8.8	60.77	68.20	-7.43	Peak	Vertical
5700.0	35.05	35.29	29.18	8.8	49.96	68.20	-18.24	Peak	Vertical
5720.0	47.12	35.29	29.18	8.8	62.03	68.20	-6.17	Peak	Vertical
5725.0	35.73	35.29	29.18	8.8	50.64	68.20	-17.56	Peak	Vertical

802.11 a/ Channel 165 :5825 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5850.0	46.10	33.21	35.82	9.52	53.01	68.20	-15.19	Peak	Horizontal
5855.0	35.41	33.21	35.82	9.52	42.32	68.20	-25.88	Peak	Horizontal
5875.0	47.21	32.82	35.82	9.52	53.73	68.20	-14.47	Peak	Horizontal
5925.0	35.78	32.82	35.82	9.52	42.30	68.20	-25.90	Peak	Horizontal

802.11 a/ Channel 165 :5825 MHz									
Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector	Polarization
5850.0	46.16	33.21	35.82	9.52	53.07	68.20	-15.13	Peak	Vertical
5855.0	35.48	33.21	35.82	9.52	42.39	68.20	-25.81	Peak	Vertical
5875.0	47.35	32.82	35.82	9.52	53.87	68.20	-14.33	Peak	Vertical
5925.0	35.53	32.82	35.82	9.52	42.05	68.20	-26.15	Peak	Vertical

REMARKS:

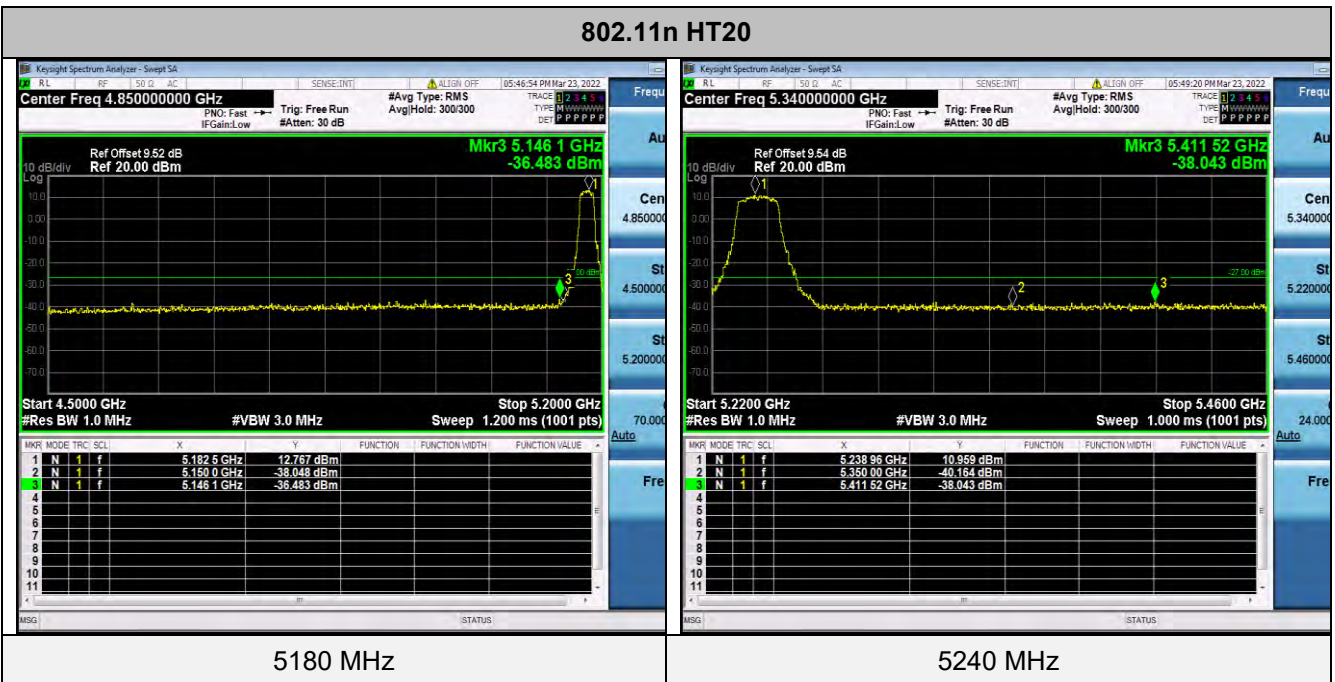
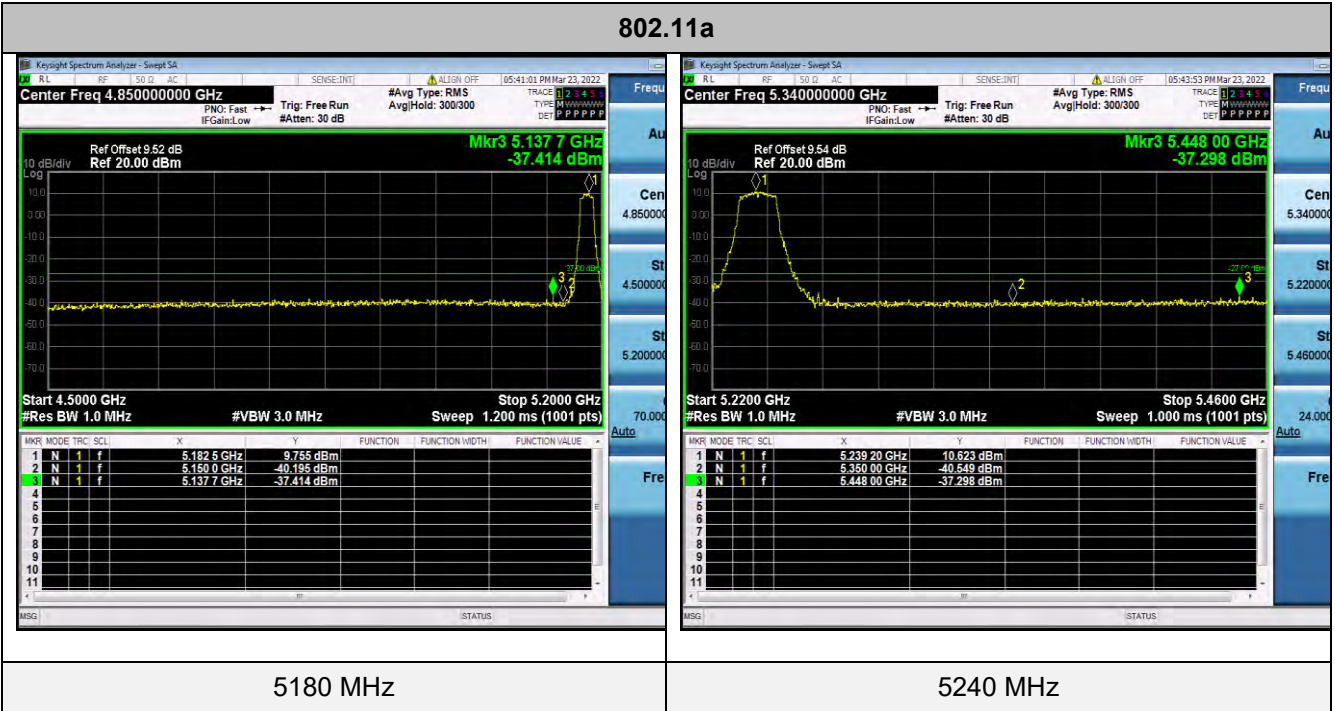
1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin value = Result Level-Limit value.
2. The other emission levels were very low against the limit.
3. The average measurement was not performed when the peak measured data under the limit of average detection.
4. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak;

For Conducted Band edge Measurement

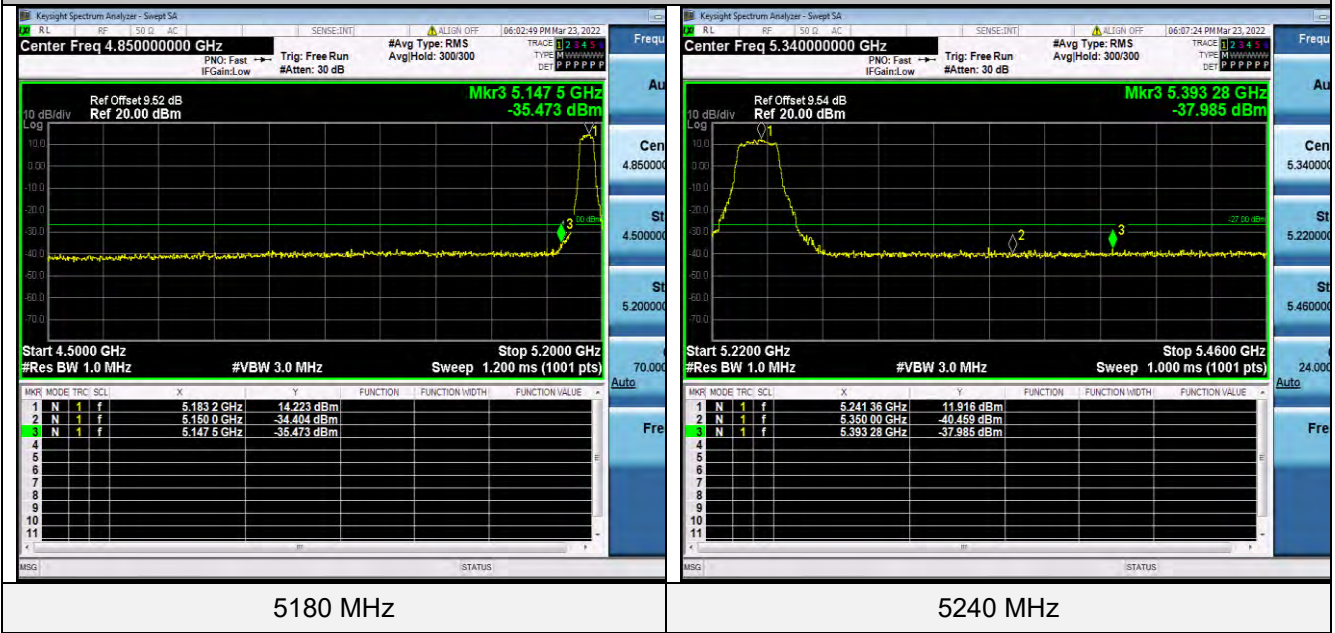
Temperature	23.6°C	Humidity	55.7%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11a/n/ac

The test results have included the antenna gain

5150-5250MHz:



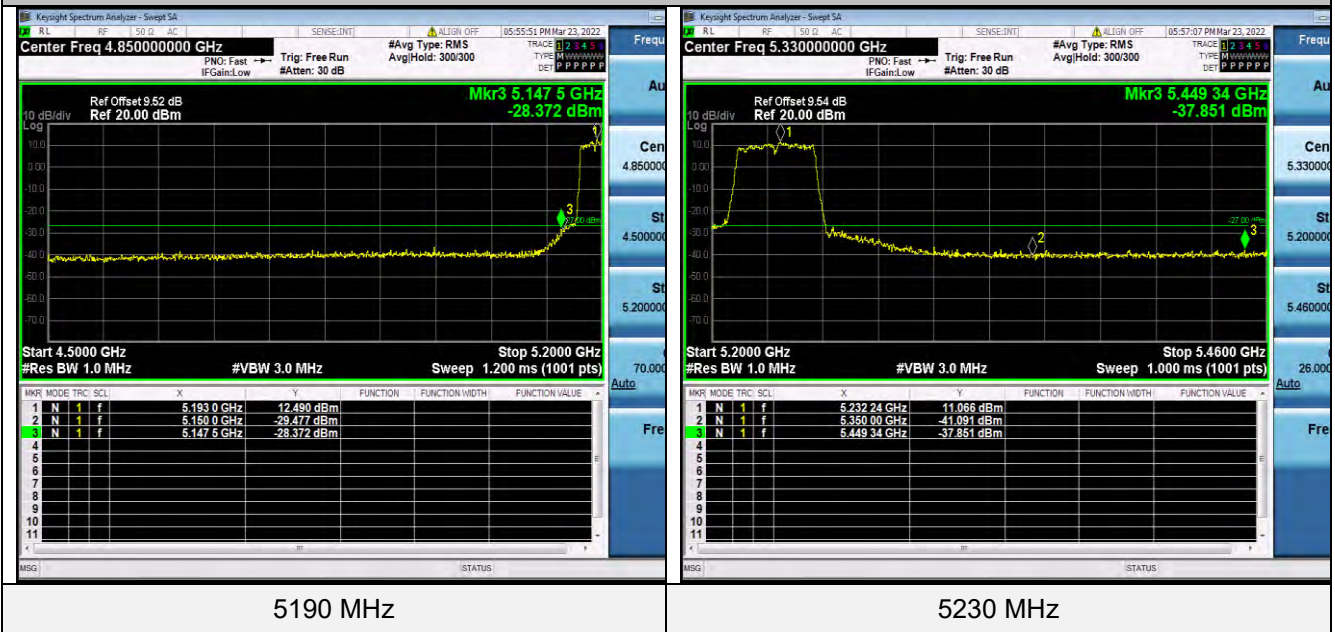
802.11ac20



5180 MHz

5240 MHz

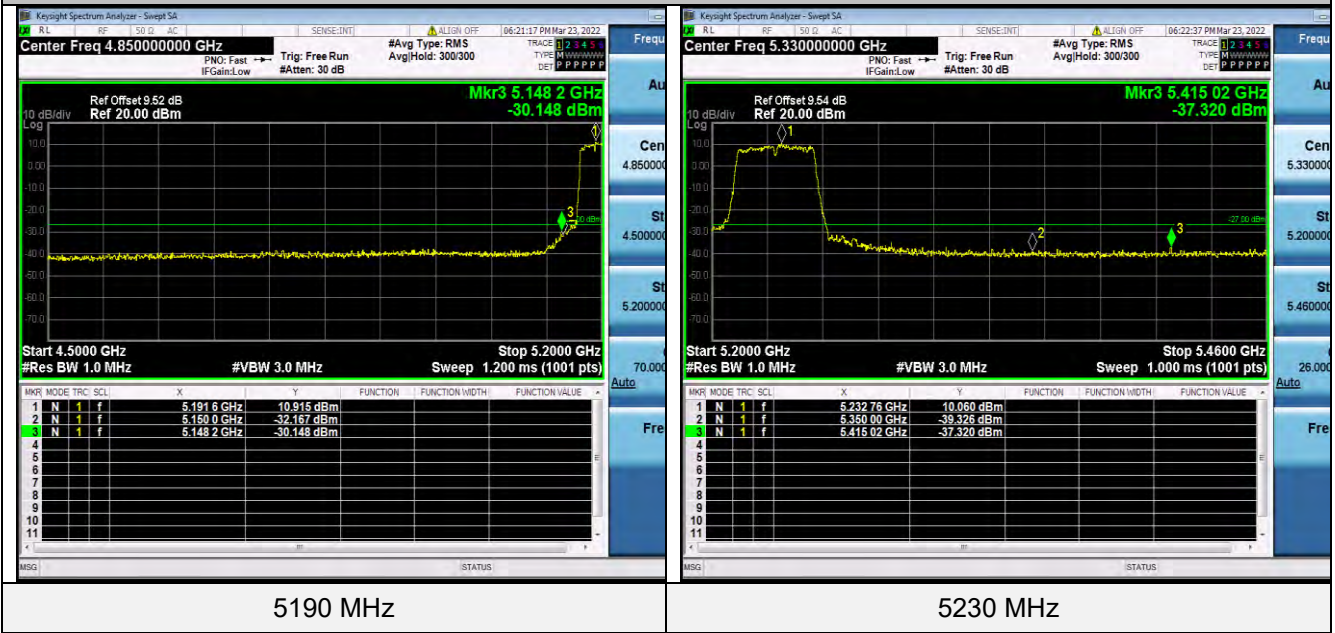
802.11n HT40



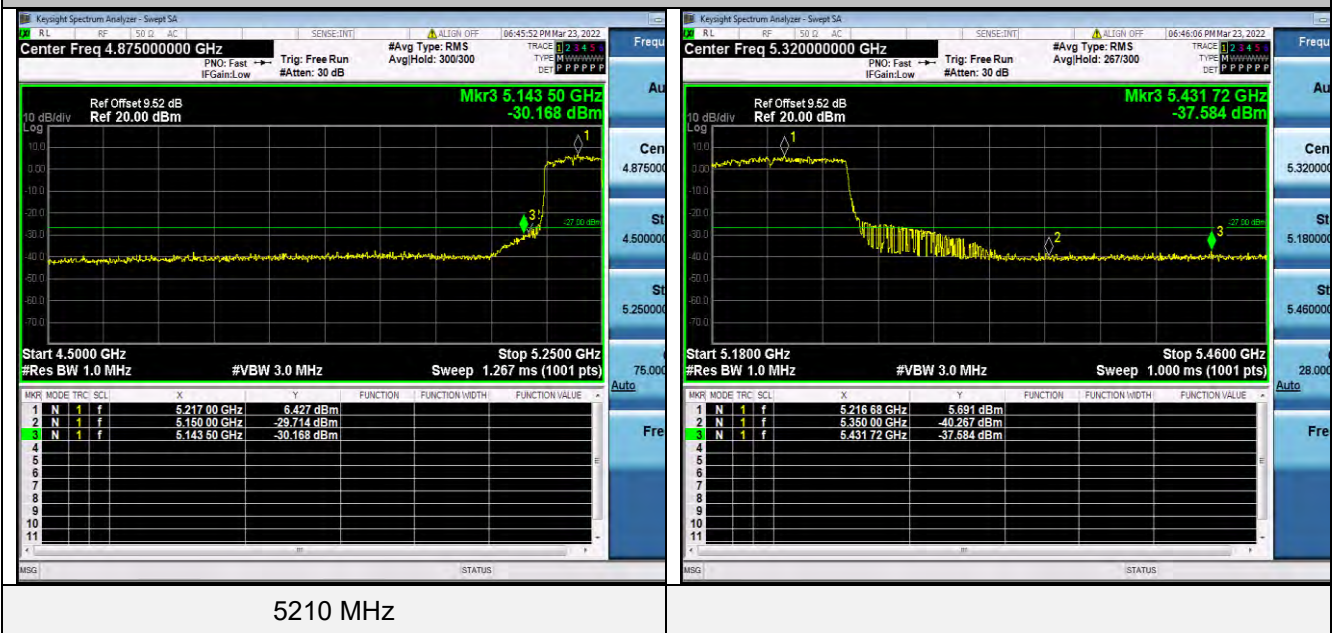
5190 MHz

5230 MHz

802.11ac40

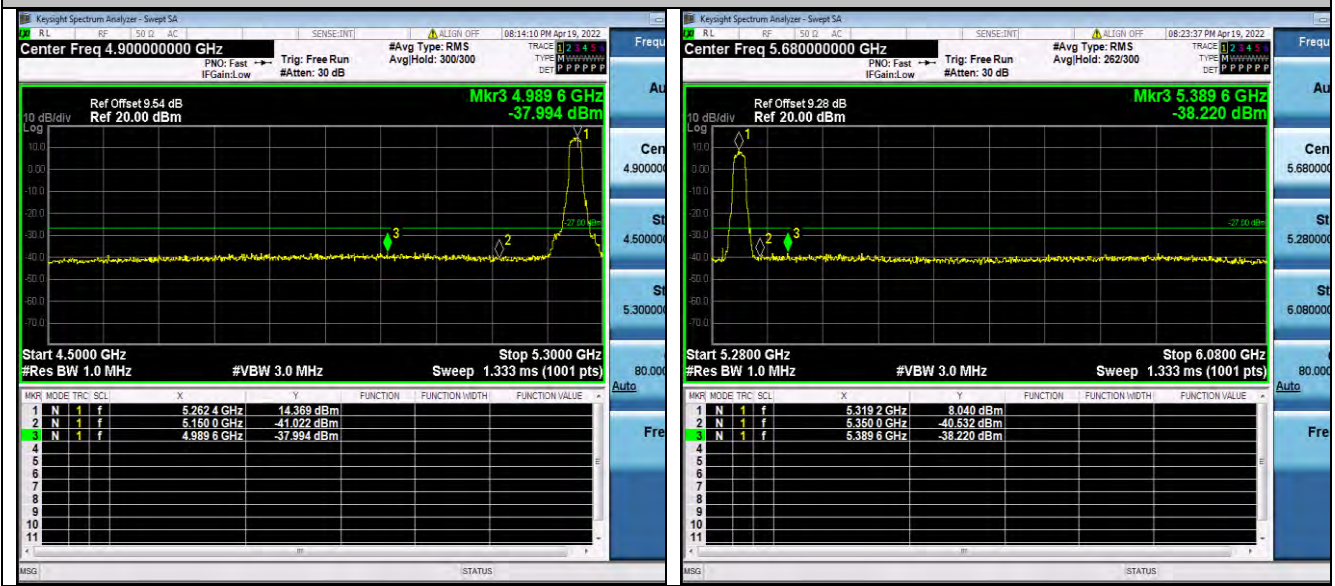


802.11ac80



5260-5320MHz:

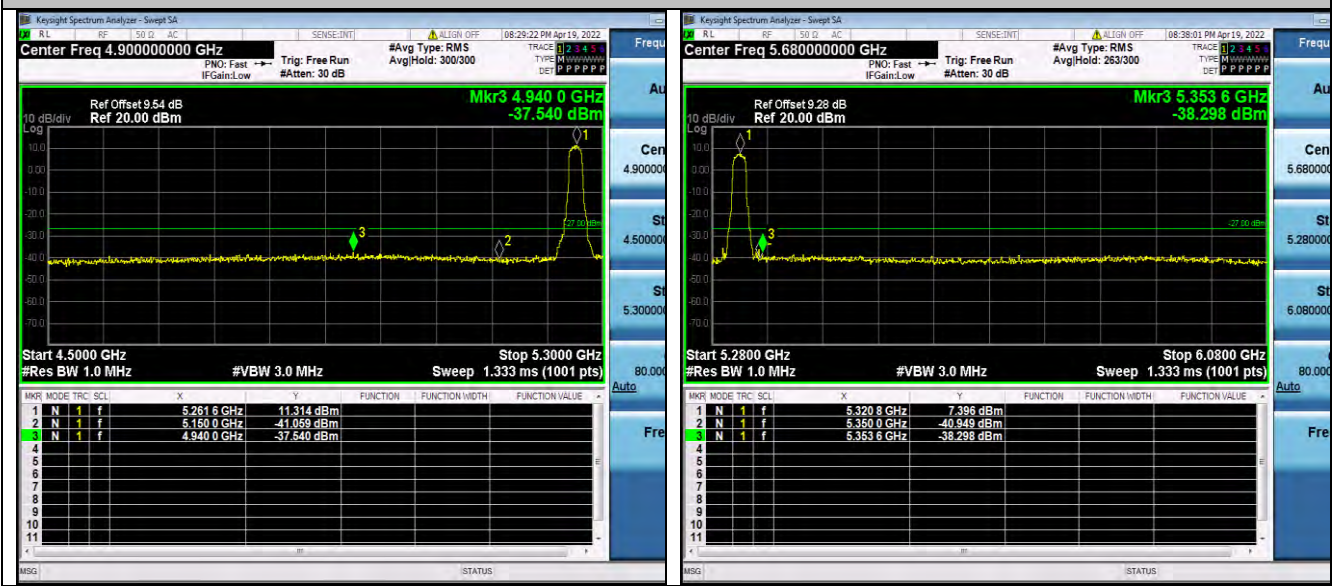
802.11a



5260 MHz

5320 MHz

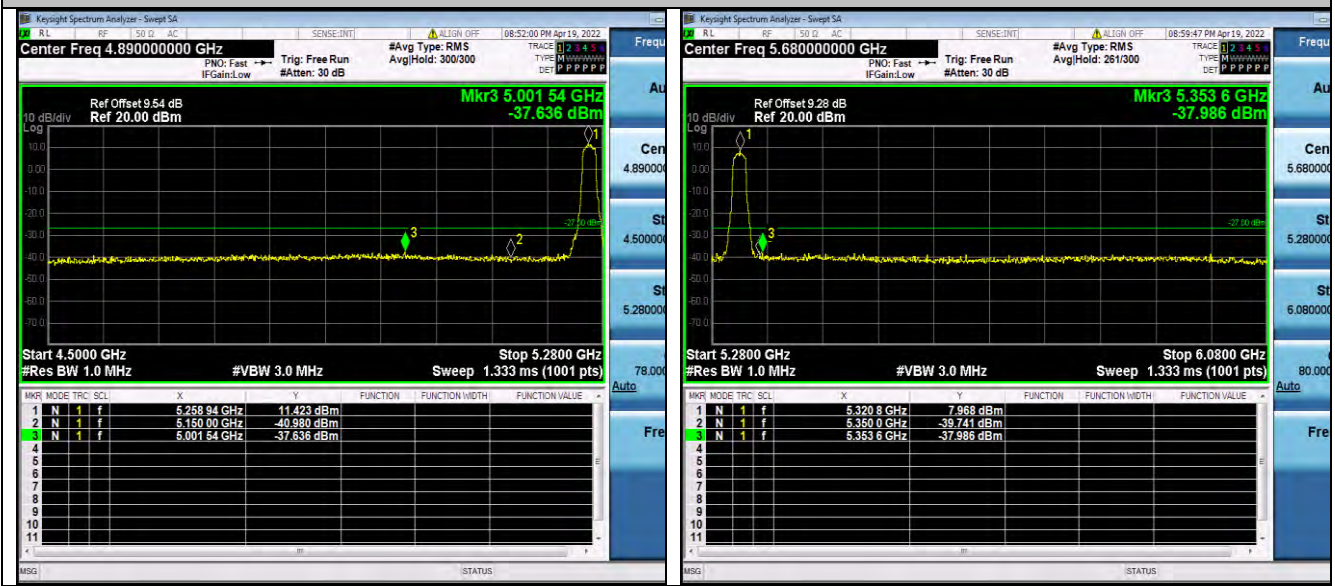
802.11n HT20



5260 MHz

5320 MHz

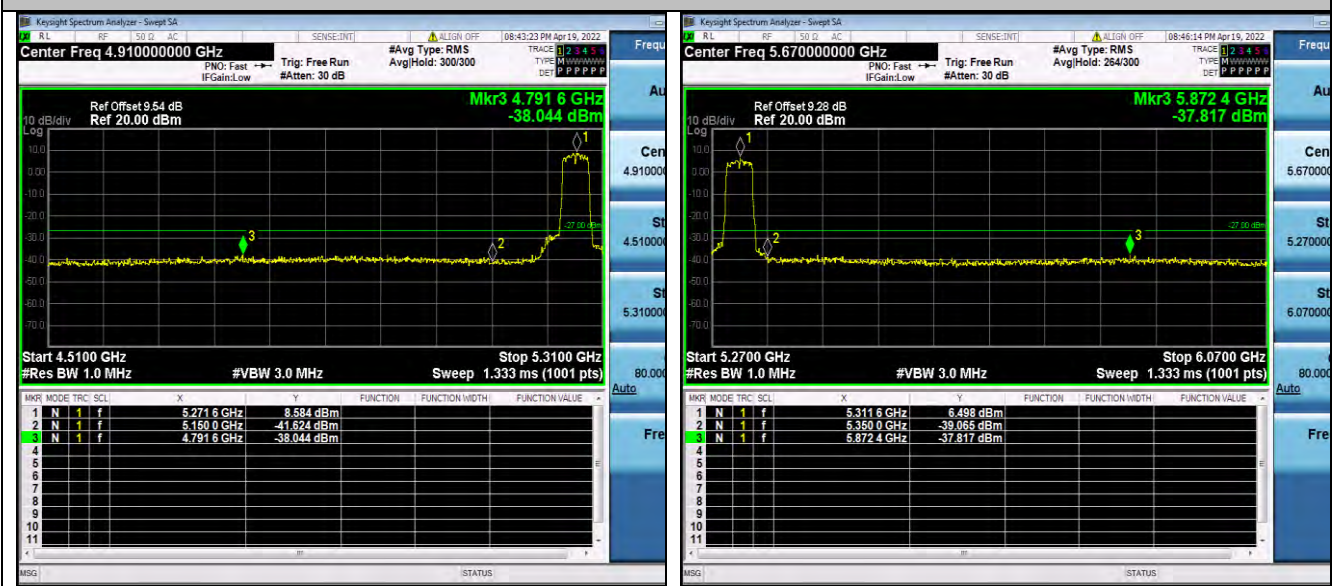
802.11ac20



5260 MHz

5320 MHz

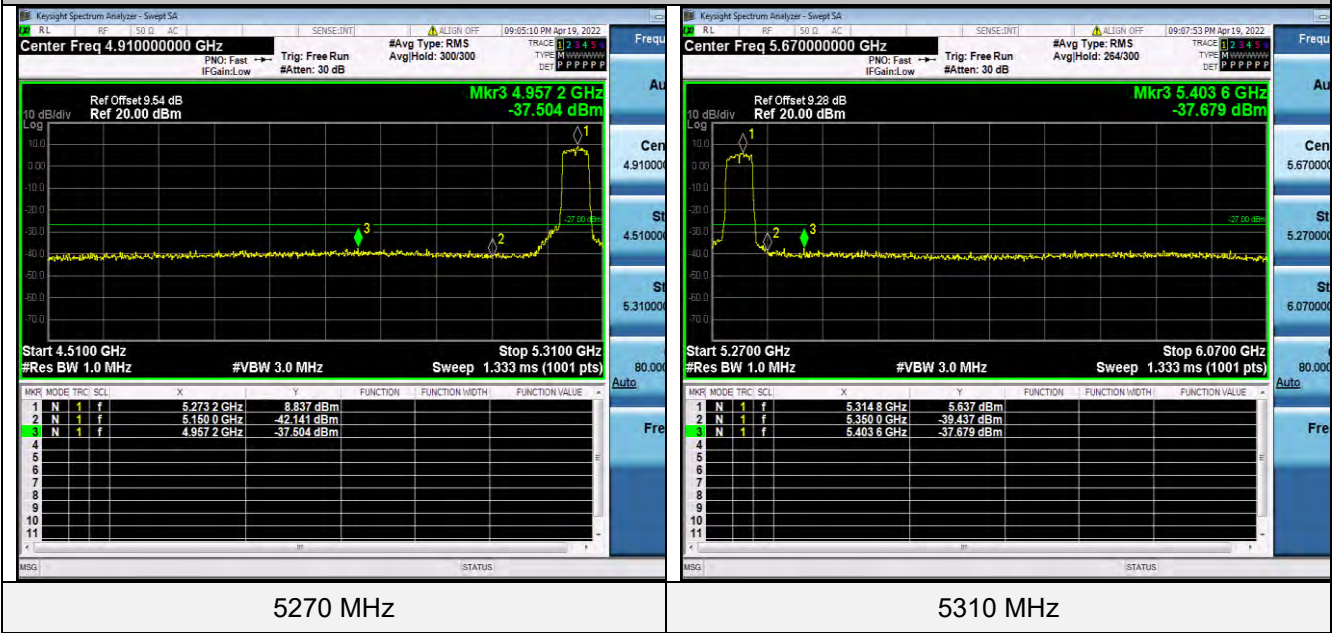
802.11n HT40



5270 MHz

5310 MHz

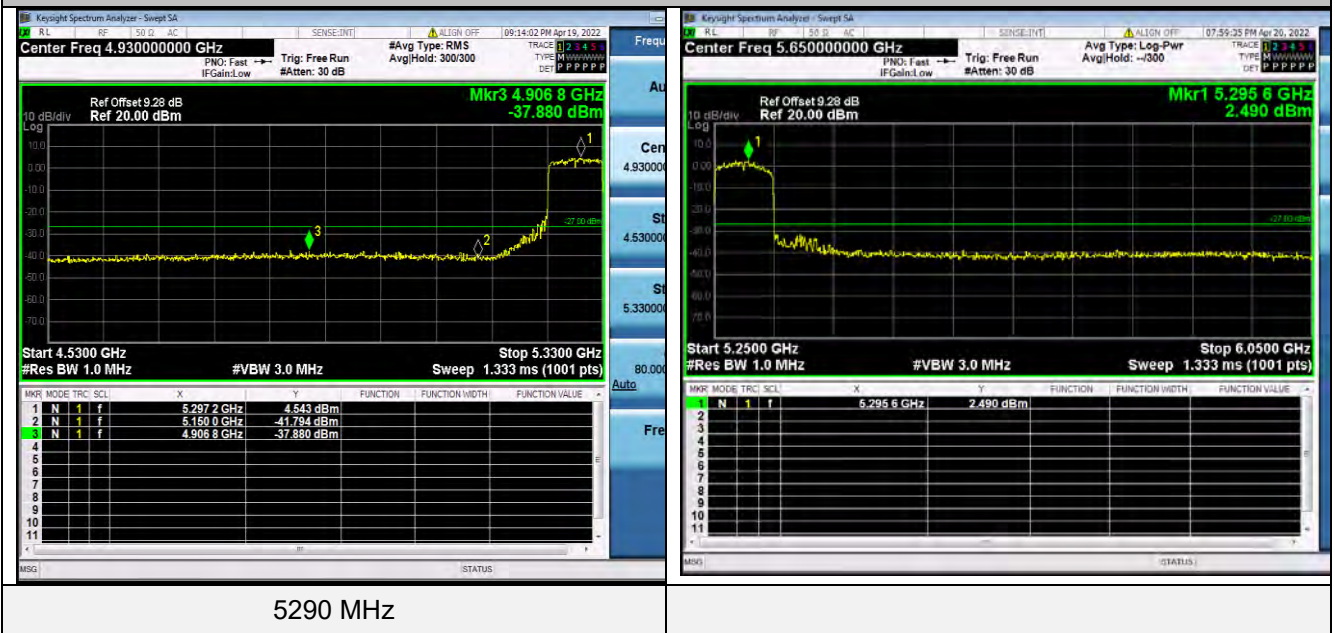
802.11ac40



5270 MHz

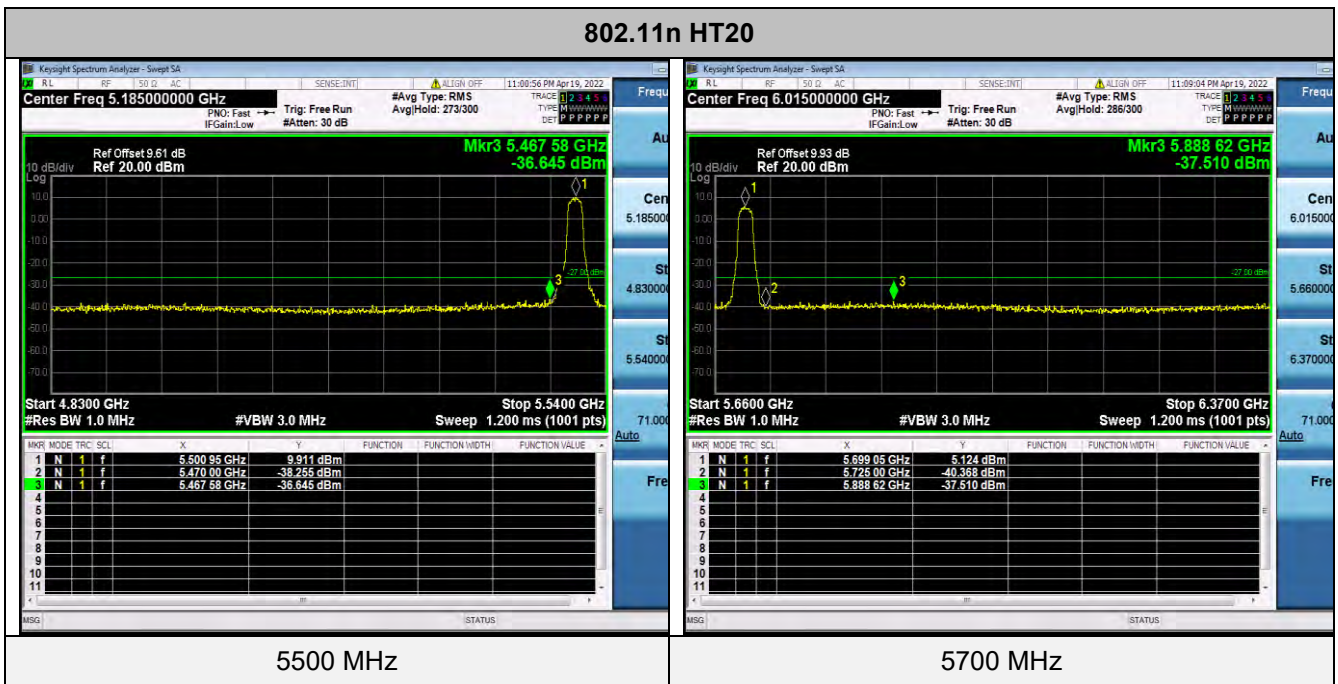
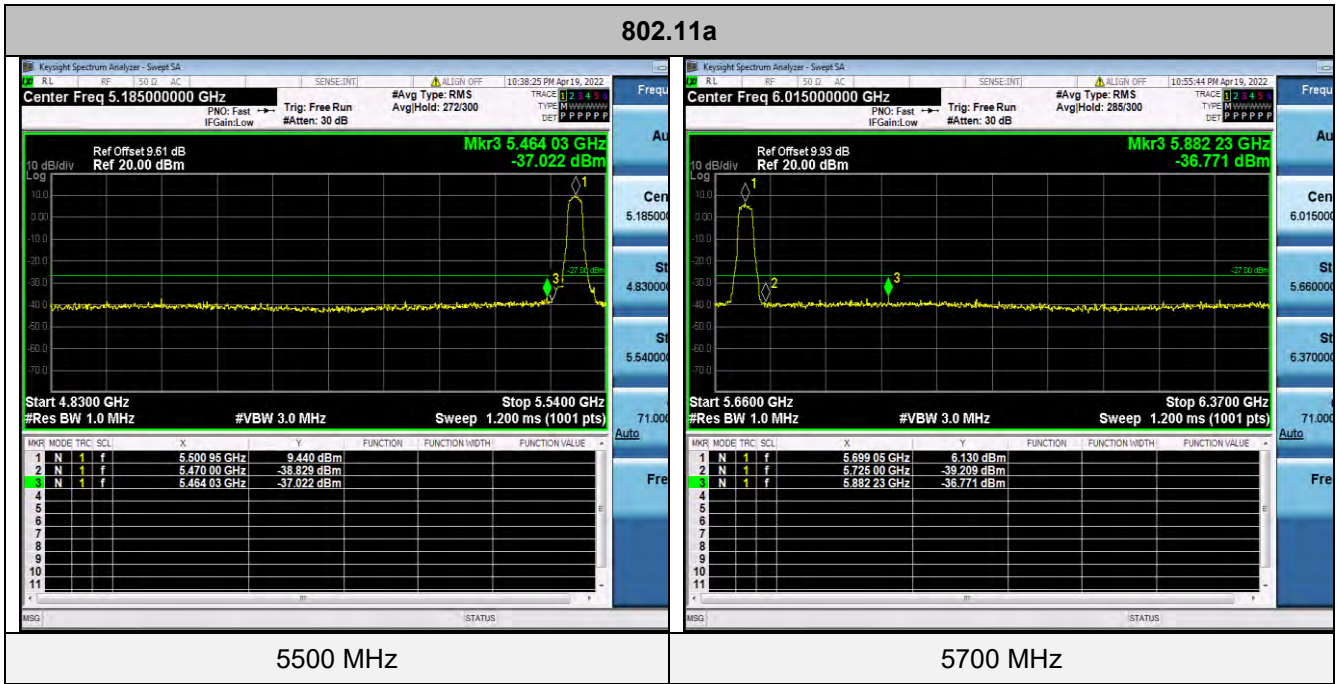
5310 MHz

802.11ac80

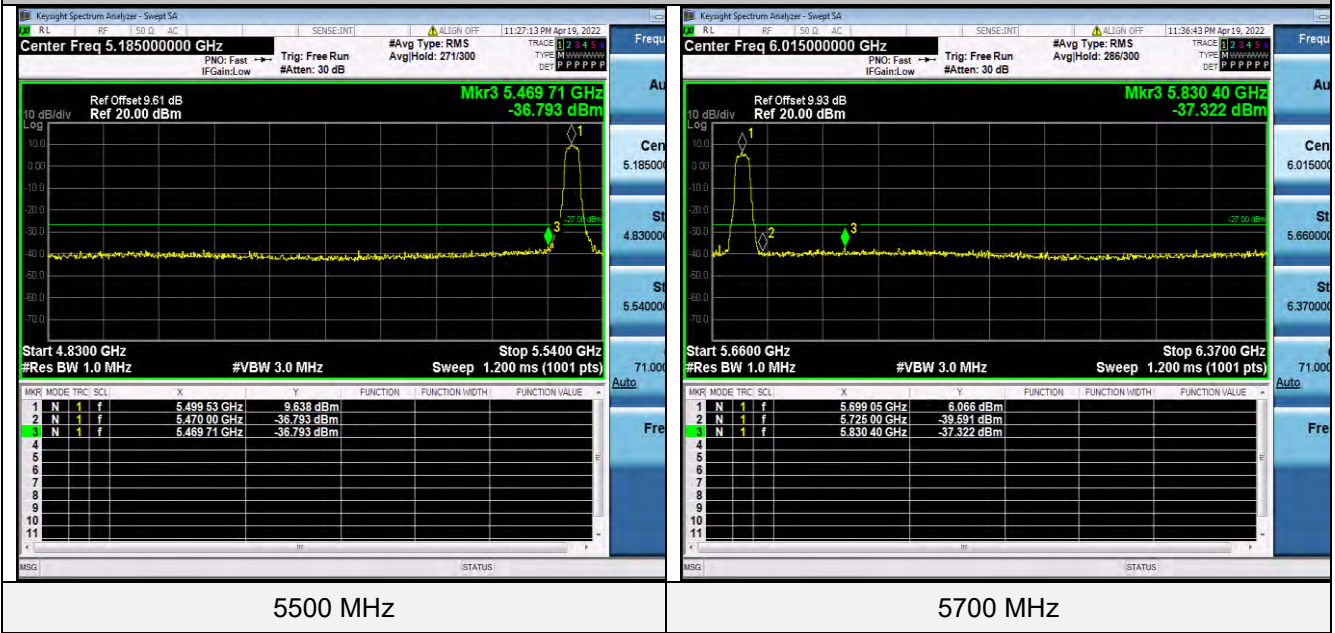


5290 MHz

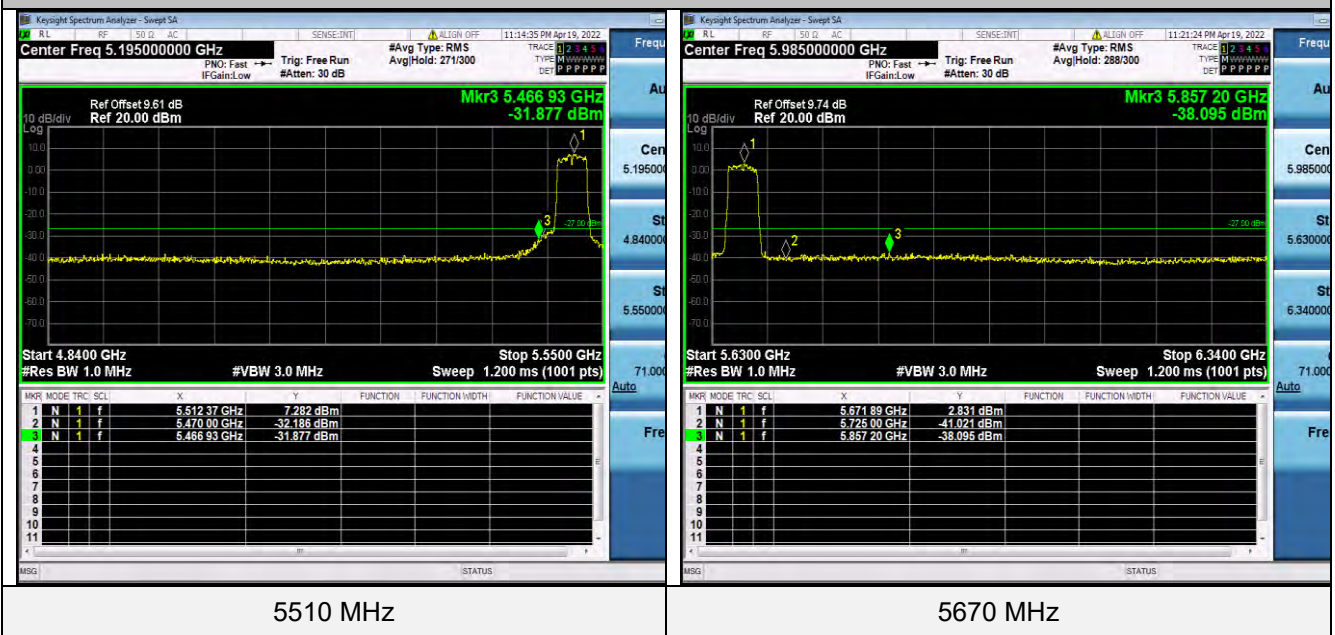
5500-5700MHz:



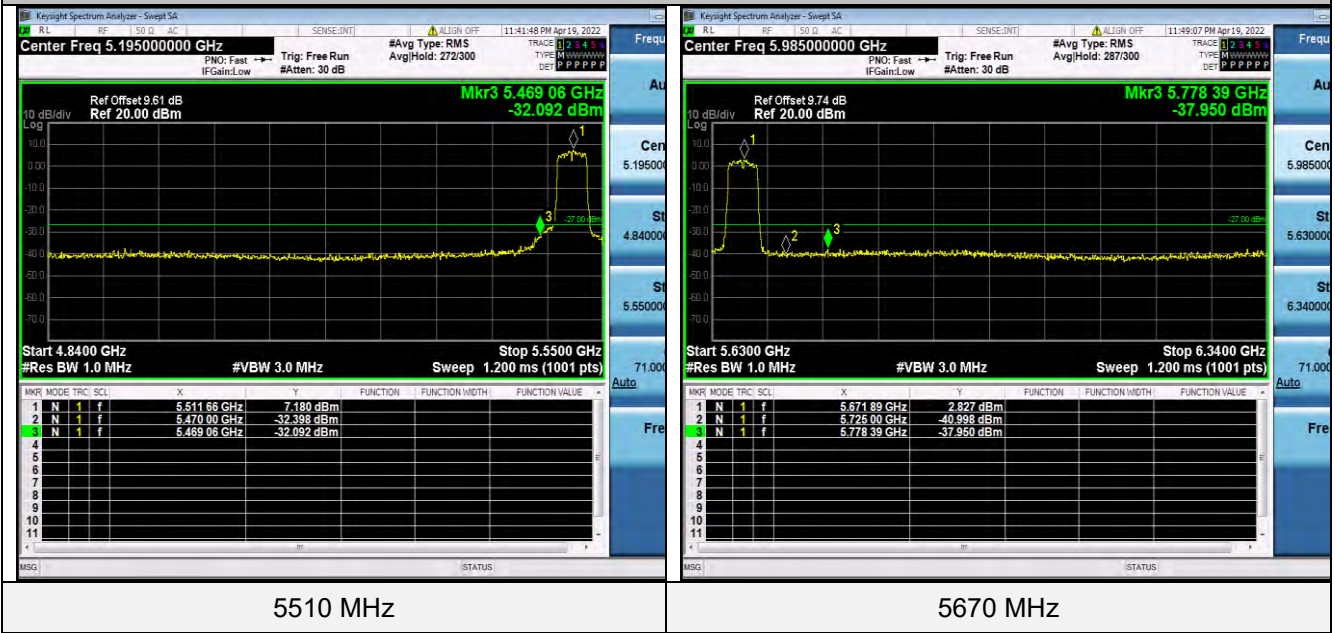
802.11ac20



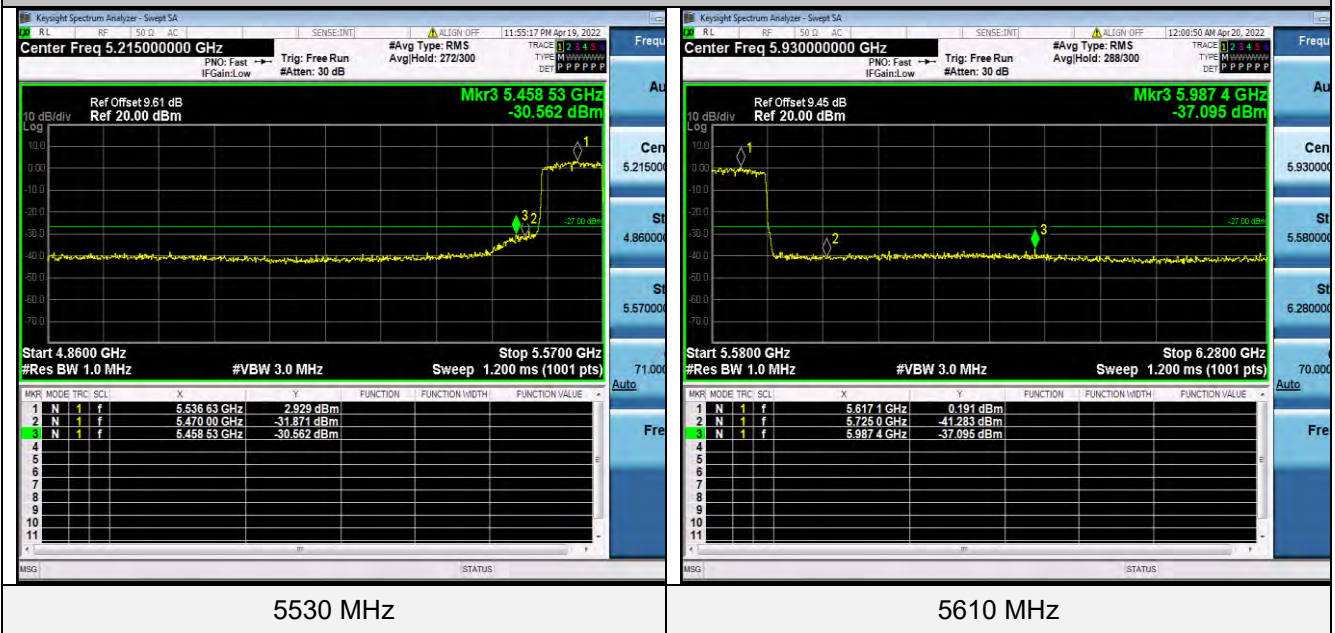
802.11n HT40



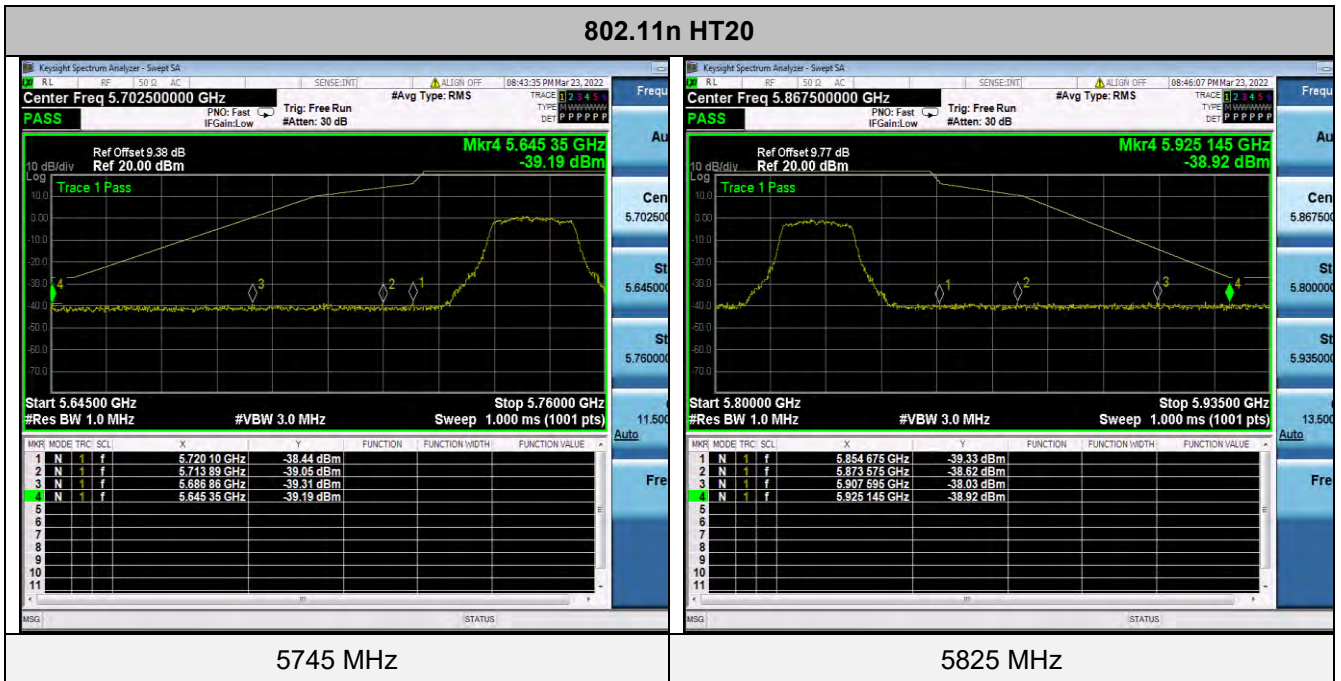
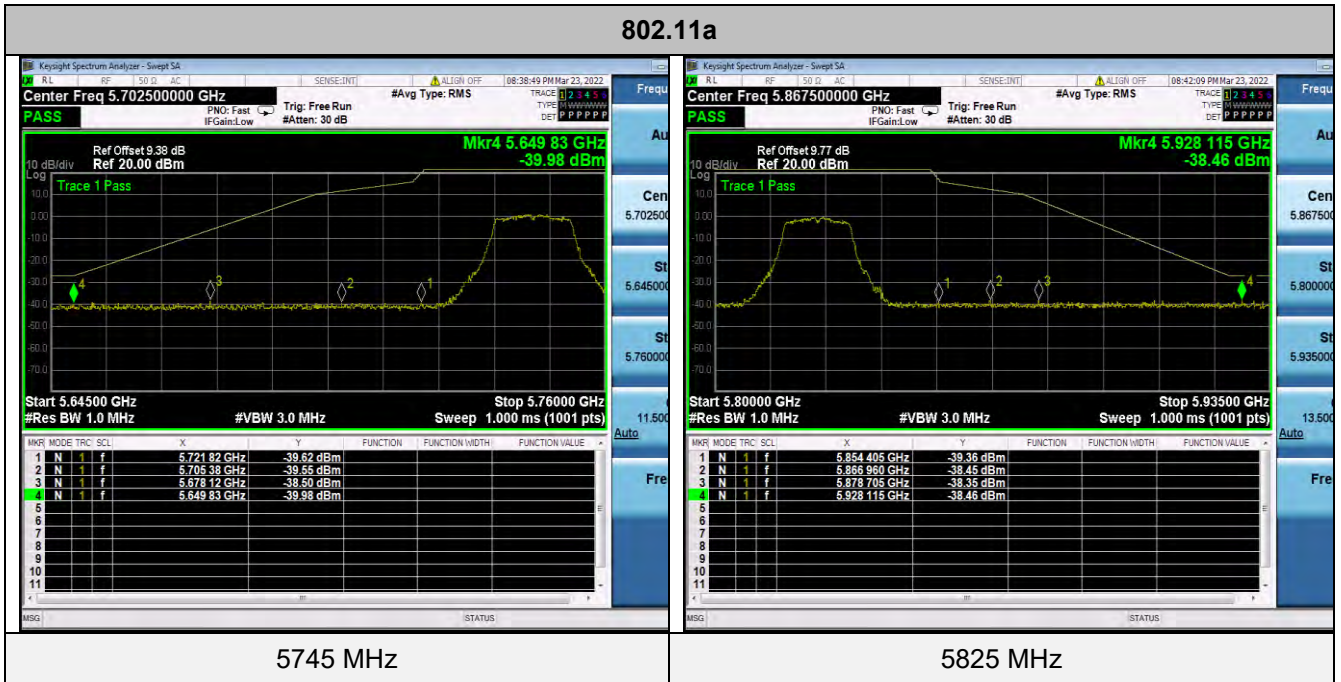
802.11ac40



802.11ac80



5725-5850MHz:



802.11ac20



5745 MHz



5825 MHz

802.11n HT40



5755 MHz

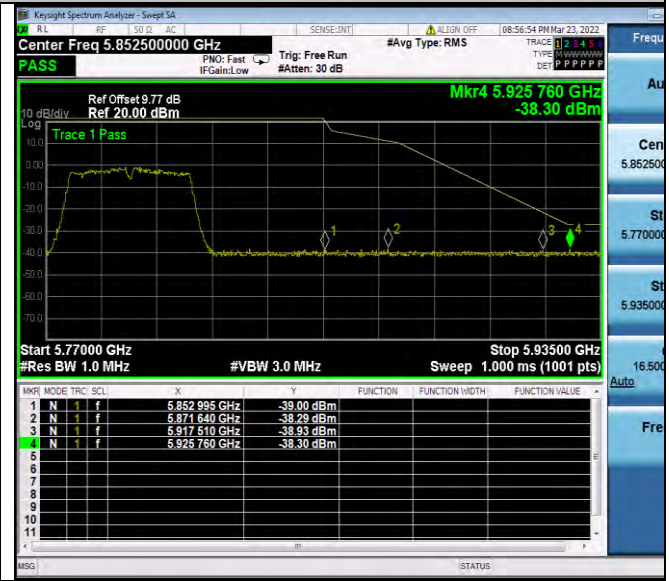


5795 MHz

802.11ac40



5755 MHz



5795 MHz

802.11ac80



5775 MHz



4.9. Frequency Stability

Standard Applicable

According to FCC §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 user manual.”

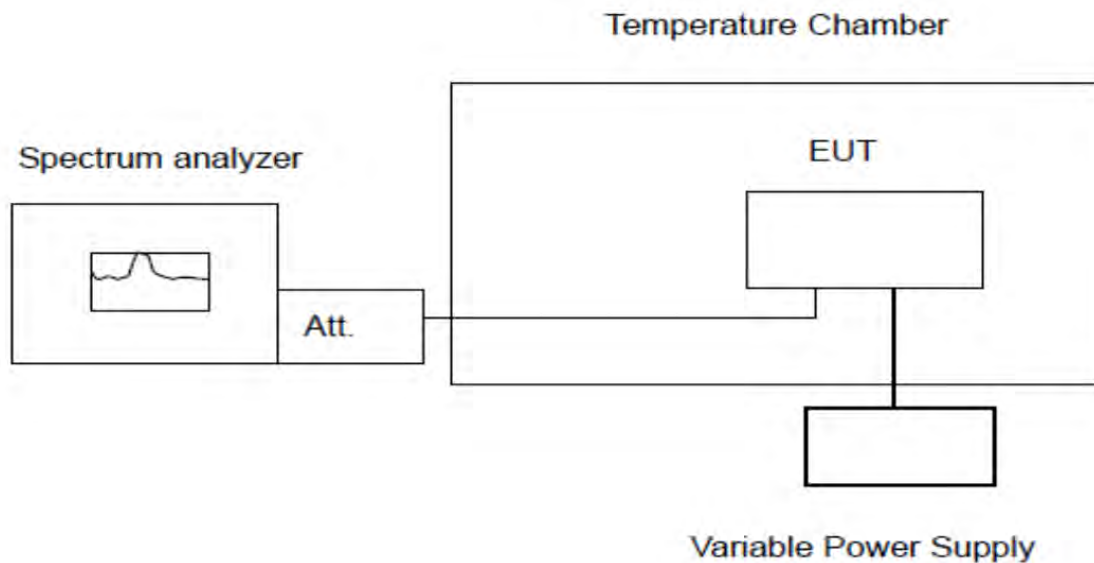
According to FCC §2.1055(a) “The frequency stability shall be measured with variation of ambient temperature as follows:”

(1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

(2) From -20° to $+50^{\circ}$ centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

(3) From 0° to $+50^{\circ}$ centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

Test Configuration



Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10 degree increased per stage until the highest temperature of $+50$ degree reached.

Test Results

PASS

Remark:

1. Measured all conditions and recorded worst case.

IEEE 802.11a Mode / 5180 – 5240 MHz / 5180 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5180.226086	5150 – 5250	PASS
20	DC 3.47V	5180.520715	5150 – 5250	PASS
50	DC 3.85V	5180.590782	5150 – 5250	PASS
40	DC 3.85V	5180.481865	5150 – 5250	PASS
30	DC 3.85V	5180.065491	5150 – 5250	PASS
20	DC 3.85V	5180.318044	5150 – 5250	PASS
10	DC 3.85V	5180.427757	5150 – 5250	PASS
0	DC 3.85V	5179.732746	5150 – 5250	PASS
-10	DC 3.85V	5179.613848	5150 – 5250	PASS
-20	DC 3.85V	5180.468347	5150 – 5250	PASS
-30	DC 3.85V	5179.687965	5150 – 5250	PASS

IEEE 802.11a Mode / 5180 – 5240 MHz / 5240 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5240.462762	5150 – 5250	PASS
20	DC 3.47V	5239.965667	5150 – 5250	PASS
50	DC 3.85V	5240.522696	5150 – 5250	PASS
40	DC 3.85V	5240.182999	5150 – 5250	PASS
30	DC 3.85V	5239.728647	5150 – 5250	PASS
20	DC 3.85V	5240.383050	5150 – 5250	PASS
10	DC 3.85V	5239.894977	5150 – 5250	PASS
0	DC 3.85V	5240.590863	5150 – 5250	PASS
-10	DC 3.85V	5240.158511	5150 – 5250	PASS
-20	DC 3.85V	5240.586122	5150 – 5250	PASS
-30	DC 3.85V	5239.808983	5150 – 5250	PASS

IEEE 802.11a Mode / 5260 – 5320 MHz / 5260 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5260.032267	5250 – 5350	PASS
20	DC 3.47V	5260.032999	5250 – 5350	PASS
50	DC 3.85V	5260.021911	5250 – 5350	PASS
40	DC 3.85V	5259.997011	5250 – 5350	PASS
30	DC 3.85V	5259.986277	5250 – 5350	PASS
20	DC 3.85V	5260.024537	5250 – 5350	PASS
10	DC 3.85V	5259.974696	5250 – 5350	PASS
0	DC 3.85V	5260.019101	5250 – 5350	PASS
-10	DC 3.85V	5260.011322	5250 – 5350	PASS
-20	DC 3.85V	5260.010421	5250 – 5350	PASS
-30	DC 3.85V	5259.998858	5250 – 5350	PASS

IEEE 802.11a Mode / 5260 – 5320 MHz / 5320 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5319.961250	5250 – 5350	PASS
20	DC 3.47V	5319.960112	5250 – 5350	PASS
50	DC 3.85V	5320.001501	5250 – 5350	PASS
40	DC 3.85V	5319.967859	5250 – 5350	PASS
30	DC 3.85V	5319.999027	5250 – 5350	PASS
20	DC 3.85V	5320.021564	5250 – 5350	PASS
10	DC 3.85V	5320.004416	5250 – 5350	PASS
0	DC 3.85V	5319.999495	5250 – 5350	PASS
-10	DC 3.85V	5320.036146	5250 – 5350	PASS
-20	DC 3.85V	5320.032176	5250 – 5350	PASS
-30	DC 3.85V	5319.986880	5250 – 5350	PASS

IEEE 802.11a Mode / 5500 – 5700 MHz / 5500 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5499.975080	5470 – 5725	PASS
20	DC 3.47V	5500.001375	5470 – 5725	PASS
50	DC 3.85V	5499.987748	5470 – 5725	PASS
40	DC 3.85V	5500.009388	5470 – 5725	PASS
30	DC 3.85V	5500.019345	5470 – 5725	PASS
20	DC 3.85V	5500.015613	5470 – 5725	PASS
10	DC 3.85V	5499.997547	5470 – 5725	PASS
0	DC 3.85V	5500.027921	5470 – 5725	PASS
-10	DC 3.85V	5500.002395	5470 – 5725	PASS
-20	DC 3.85V	5500.016255	5470 – 5725	PASS
-30	DC 3.85V	5499.998197	5470 – 5725	PASS

IEEE 802.11a Mode / 5500 – 5700 MHz / 5700 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5699.991387	5470 – 5725	PASS
20	DC 3.47V	5699.992277	5470 – 5725	PASS
50	DC 3.85V	5699.974683	5470 – 5725	PASS
40	DC 3.85V	5699.981291	5470 – 5725	PASS
30	DC 3.85V	5700.015319	5470 – 5725	PASS
20	DC 3.85V	5699.995374	5470 – 5725	PASS
10	DC 3.85V	5700.023410	5470 – 5725	PASS
0	DC 3.85V	5700.031891	5470 – 5725	PASS
-10	DC 3.85V	5700.020626	5470 – 5725	PASS
-20	DC 3.85V	5700.001937	5470 – 5725	PASS
-30	DC 3.85V	5699.990738	5470 – 5725	PASS

IEEE 802.11a Mode / 5745 – 5825 MHz / 5745 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5744.686093	5725 – 5850	PASS
20	DC 3.47V	5745.137634	5725 – 5850	PASS
50	DC 3.85V	5744.602338	5725 – 5850	PASS
40	DC 3.85V	5745.114876	5725 – 5850	PASS
30	DC 3.85V	5745.112546	5725 – 5850	PASS
20	DC 3.85V	5745.441174	5725 – 5850	PASS
10	DC 3.85V	5745.499463	5725 – 5850	PASS
0	DC 3.85V	5744.881086	5725 – 5850	PASS
-10	DC 3.85V	5745.340336	5725 – 5850	PASS
-20	DC 3.85V	5745.122979	5725 – 5850	PASS
-30	DC 3.85V	5745.008463	5725 – 5850	PASS

IEEE 802.11a Mode / 5745 – 5825 MHz / 5825 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 4.24V	5825.045664	5725 – 5850	PASS
20	DC 3.47V	5825.576361	5725 – 5850	PASS
50	DC 3.85V	5825.391207	5725 – 5850	PASS
40	DC 3.85V	5825.027080	5725 – 5850	PASS
30	DC 3.85V	5824.689752	5725 – 5850	PASS
20	DC 3.85V	5825.124897	5725 – 5850	PASS
10	DC 3.85V	5825.586981	5725 – 5850	PASS
0	DC 3.85V	5825.184292	5725 – 5850	PASS
-10	DC 3.85V	5824.700559	5725 – 5850	PASS
-20	DC 3.85V	5825.590061	5725 – 5850	PASS
-30	DC 3.85V	5825.144898	5725 – 5850	PASS

4.10. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

The antenna is Internal Aantenna, through the buckle stretched out, The directional gains of antenna used for transmitting is -1dBi.

Reference to the Test Report: **GTS20220307015-1-1.**

5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. GTS20220307015-1-1.

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. GTS20220307015-1-1.

.....**End of Report**.....