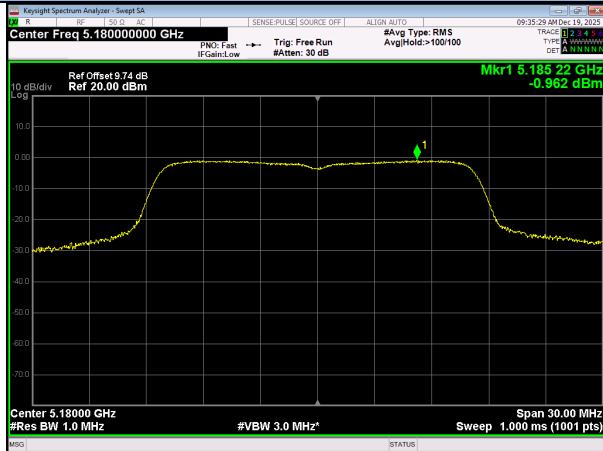


U-NII-2C					
Frequency MHz	Data Rate Mbps	Duty Cycle Factor (dB)	PSD dBm	Total PSD with duty cycle factor	Limit dBm/ MHz
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5500	6	0	-0.392	-0.392	11
Channel: 5580	6		0.342	0.342	11
Channel: 5700	6		-3.564	-3.564	11
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5500	MCS0	0	-1.898	-1.898	11
Channel: 5580	MCS0		-1.035	-1.035	11
Channel: 5700	MCS0		-4.792	-4.792	11
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5510	MCS0	0	-7.013	-7.013	11
Channel: 5670	MCS0		-9.727	-9.727	11
IEEE 802.11ac(VHT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5500	MCS0	0	-2.727	-2.727	11
Channel: 5580	MCS0		-1.69	-1.690	11
Channel: 5700	MCS0		-5.383	-5.383	11
IEEE 802.11ac(VHT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5510	MCS0	0	-5.099	-5.099	11
Channel: 5670	MCS0		-8.625	-8.625	11
IEEE 802.11ac(VHT80) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5530	MCS0	0	-9.580	-9.580	11
Channel: 5610	MCS0		-10.555	-10.555	11
Note: Please refer to section 13 for duty cycle factor.					

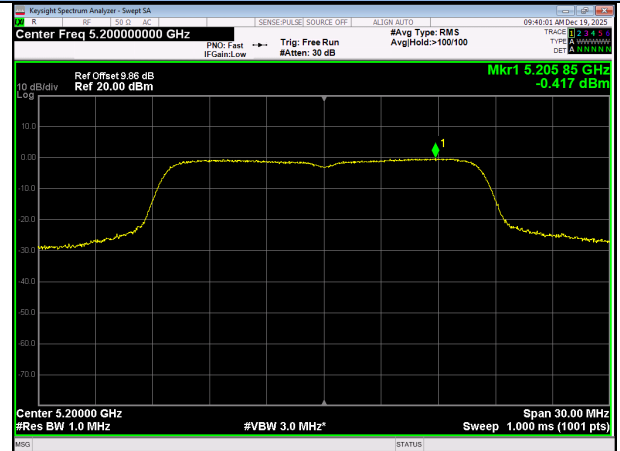
U-NII-3					
Frequency MHz	Data Rate Mbps	Duty Cycle Factor (dB)	PSD dBm/500KHz	Total PSD with duty cycle factor	Limit dBm/ 500KHz
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5745	6	0	-2.341	-2.341	30
Channel: 5785	6		-1.193	-1.193	30
Channel: 5825	6		-2.212	-2.212	30
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5745	MCS0	0	-3.039	-3.039	30
Channel: 5785	MCS0		-1.748	-1.748	30
Channel: 5825	MCS0		-2.652	-2.652	30
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5755	MCS0	0	-6.113	-6.113	30
Channel: 5795	MCS0		-4.915	-4.915	30
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5745	MCS0	0	-2.984	-2.984	30
Channel: 5785	MCS0		-1.698	-1.698	30
Channel: 5825	MCS0		-2.757	-2.757	30
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5755	MCS0	0	-6.358	-6.358	30
Channel: 5795	MCS0		-5.162	-5.162	30
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5755	MCS0	0	-6.879	-6.879	30
Note: Please refer to section 13 for duty cycle factor.					

U-NII-1 Band

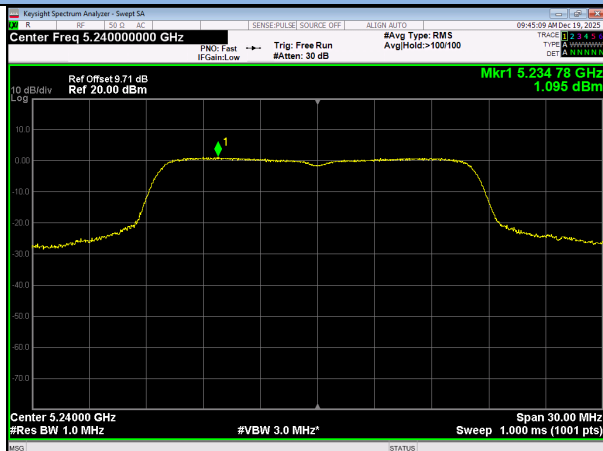
IEEE 802.11a Low Channel



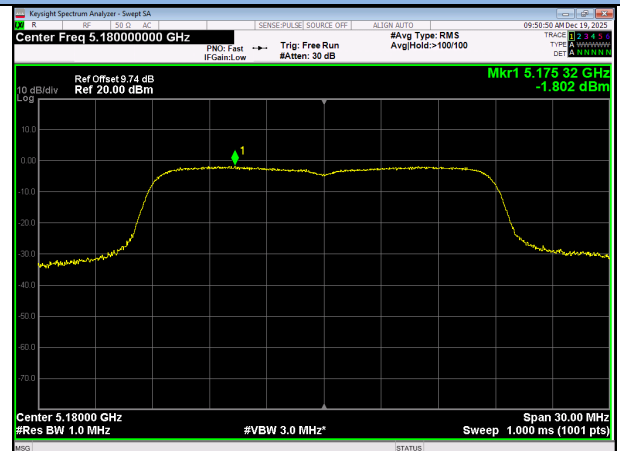
IEEE 802.11a Middle Channel



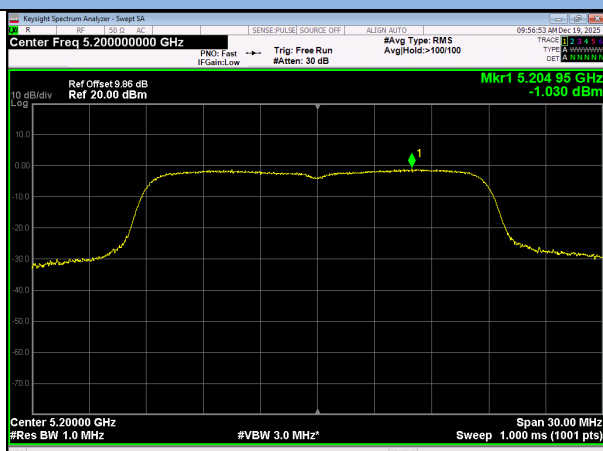
IEEE 802.11a High Channel



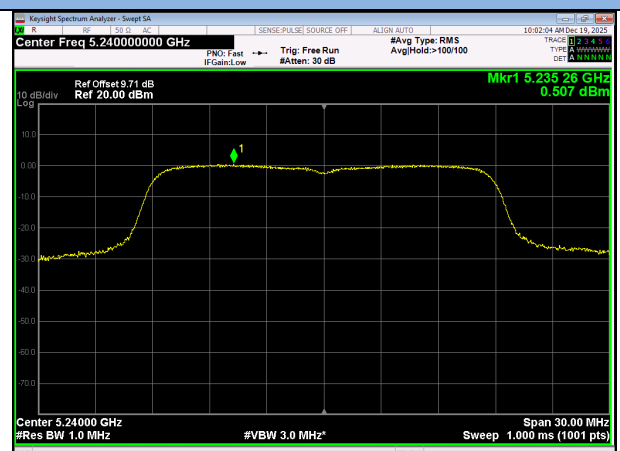
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

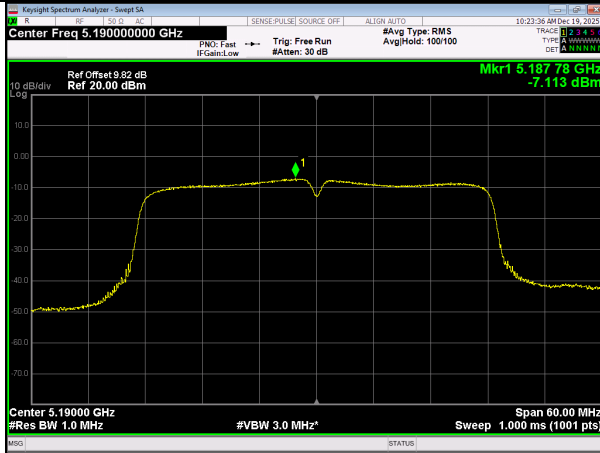


IEEE 802.11n(HT20) High Channel

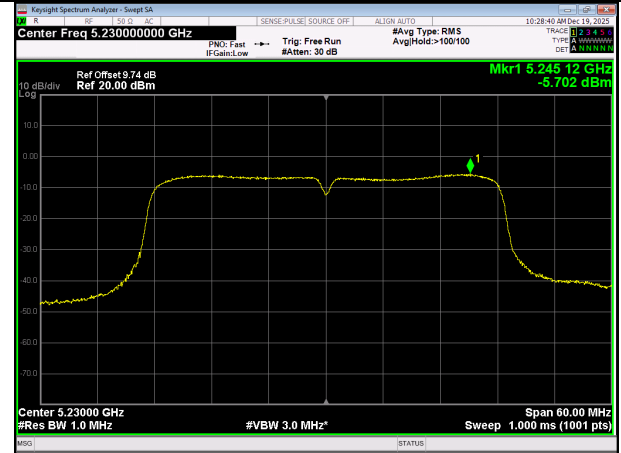


U-NII-1 Band

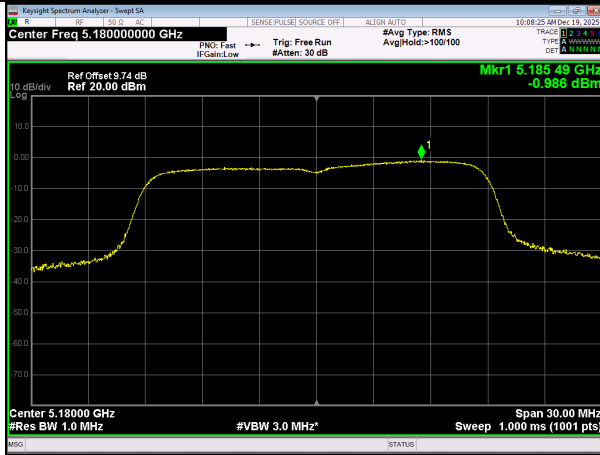
IEEE 802.11n(HT40) Low Channel



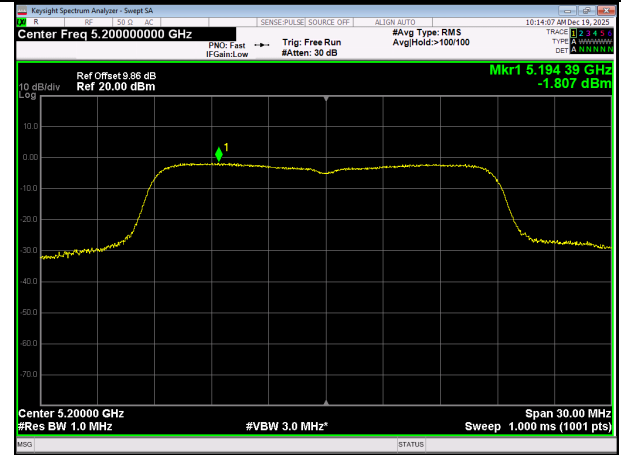
IEEE 802.11n(HT40) High Channel



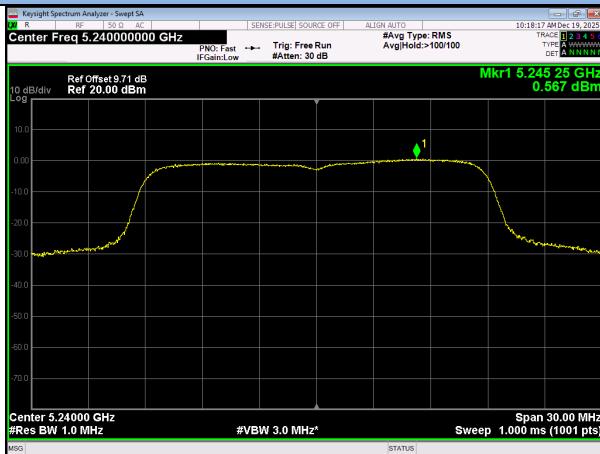
IEEE 802.11ac(VHT20) Low Channel



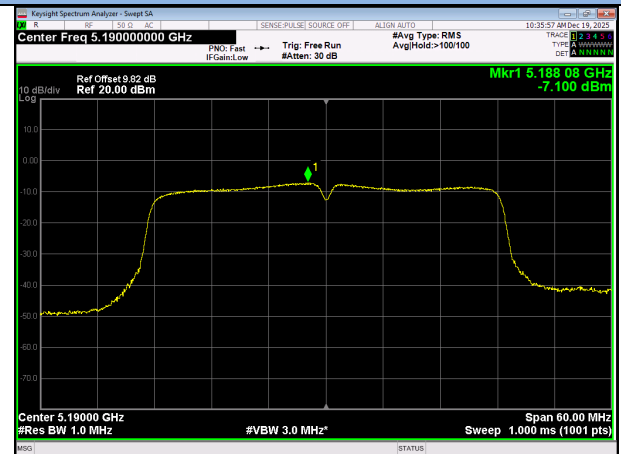
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

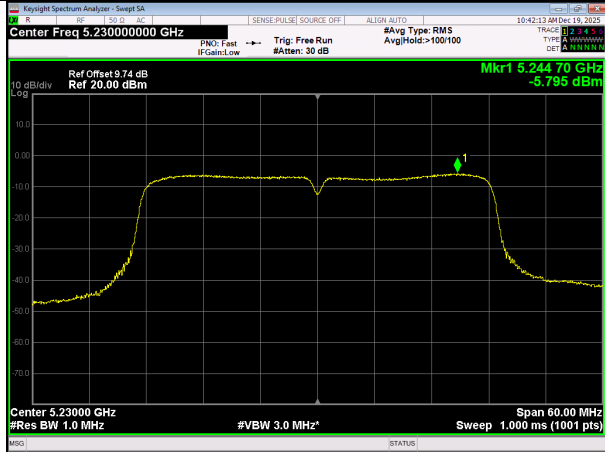


IEEE 802.11ac(VHT40) Low Channel

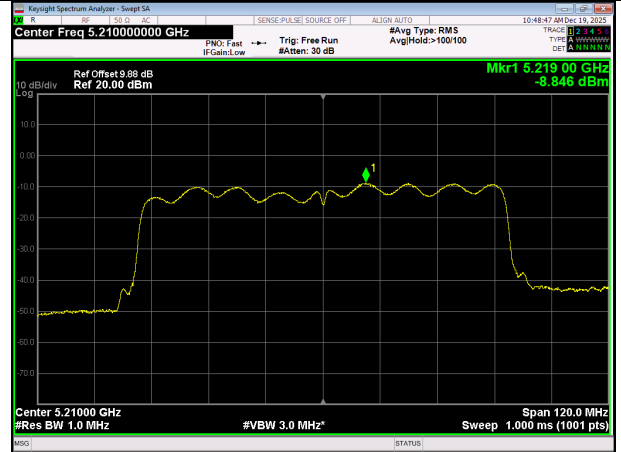


U-NII-1 Band

IEEE 802.11ac(VHT40) High Channel

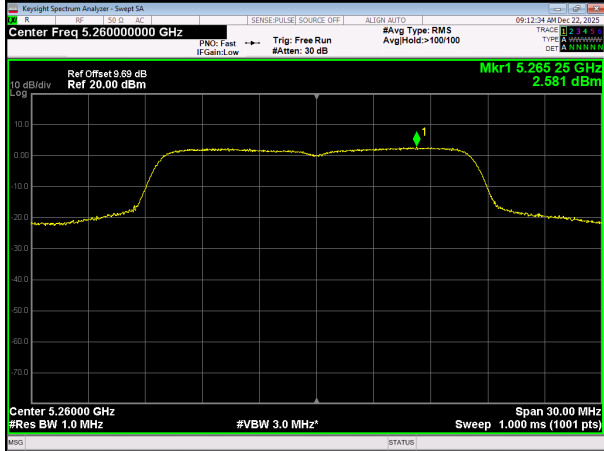


IEEE 802.11ac(VHT80)

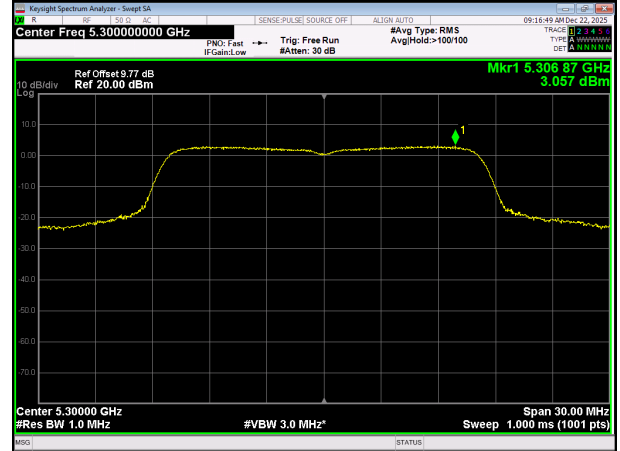


U-NII-2A Band

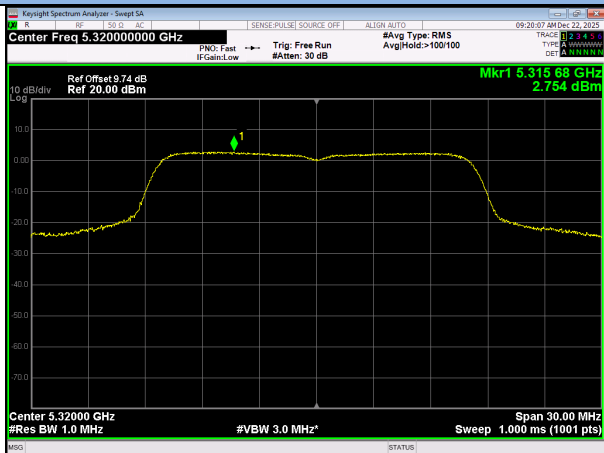
IEEE 802.11a Low Channel



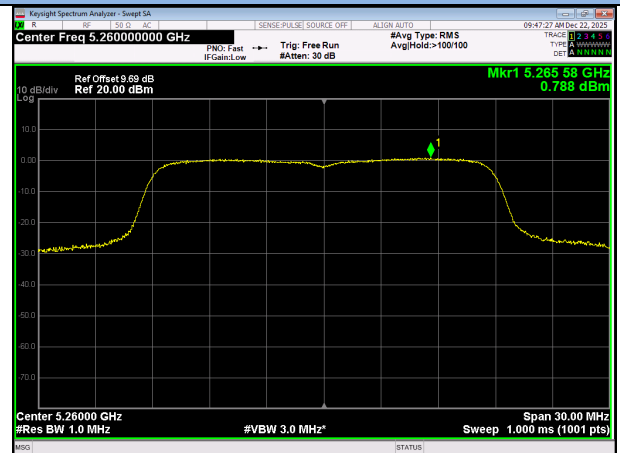
IEEE 802.11a Middle Channel



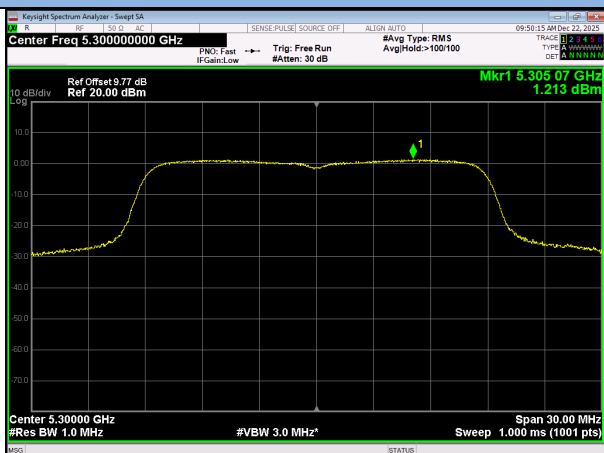
IEEE 802.11a High Channel



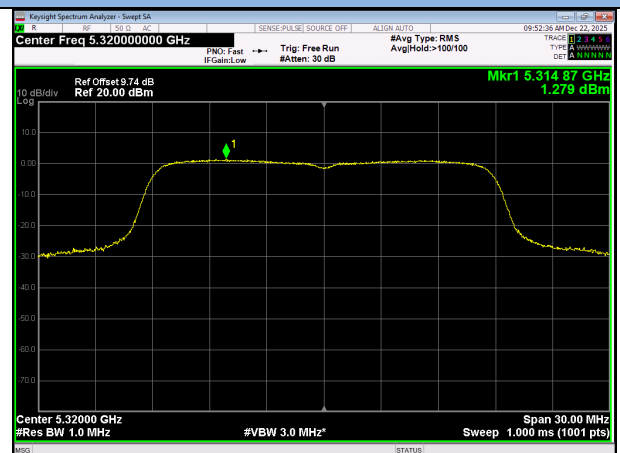
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

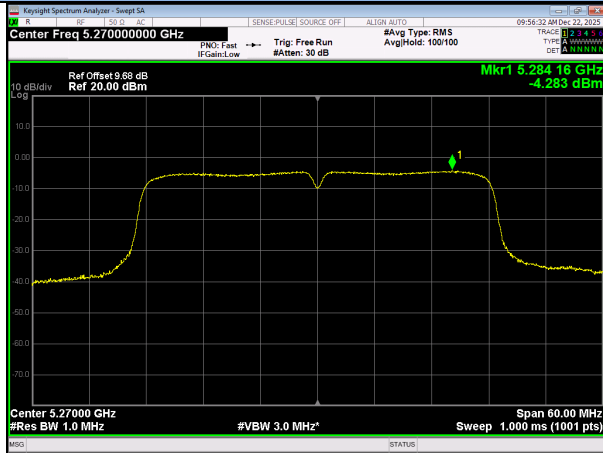


IEEE 802.11n(HT20) High Channel

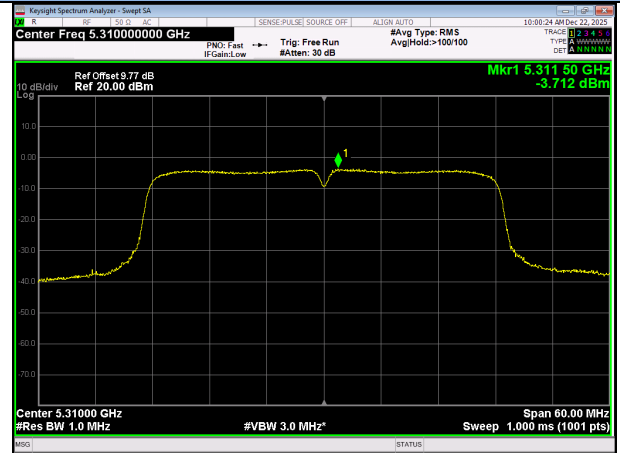


U-NII-2A Band

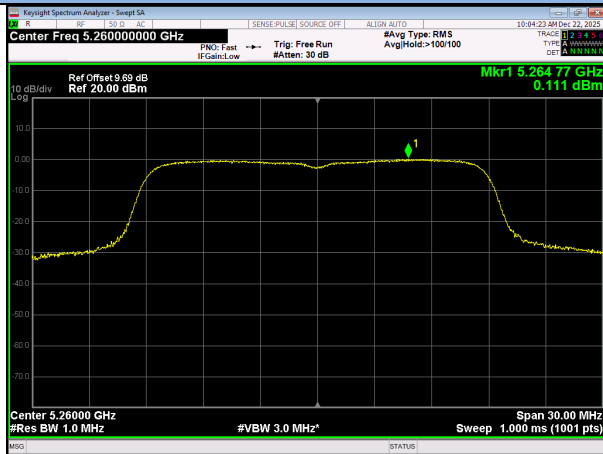
IEEE 802.11n(HT40) Low Channel



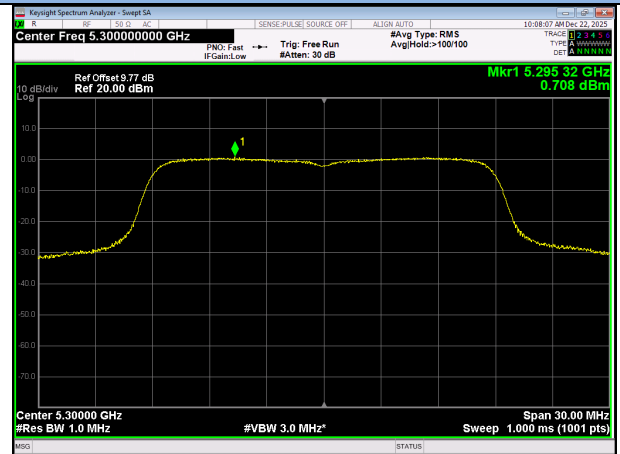
IEEE 802.11n(HT40) High Channel



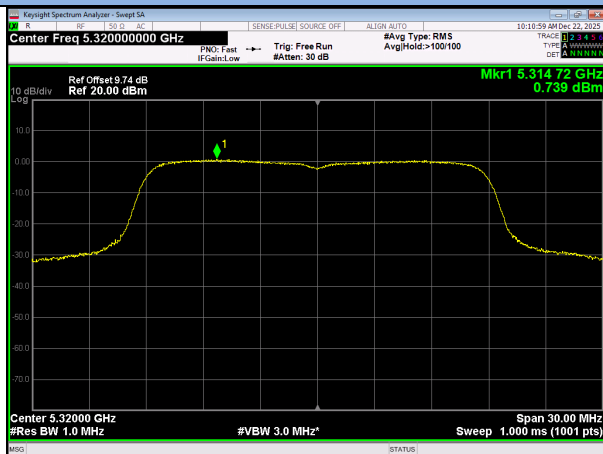
IEEE 802.11ac(VHT20) Low Channel



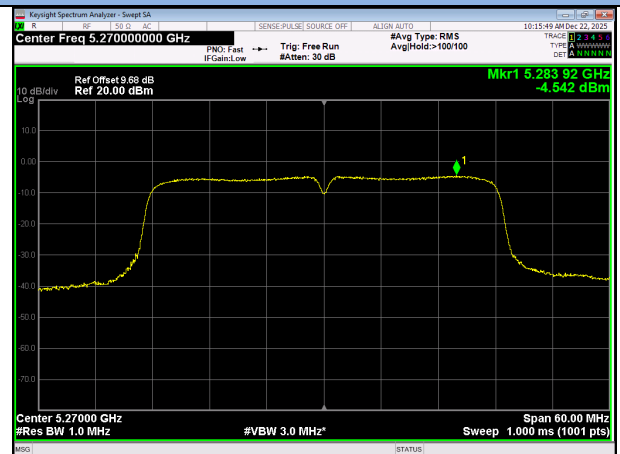
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

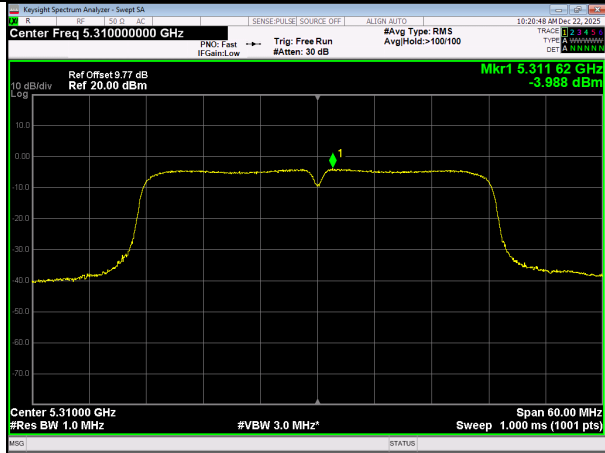


IEEE 802.11ac(VHT40) Low Channel

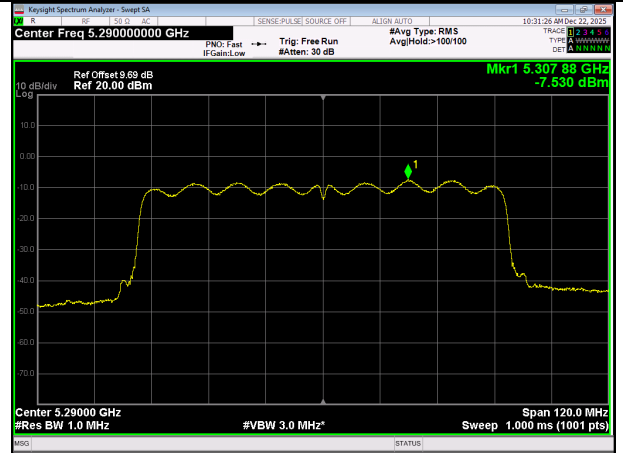


U-NII-2A Band

IEEE 802.11ac(VHT40) High Channel

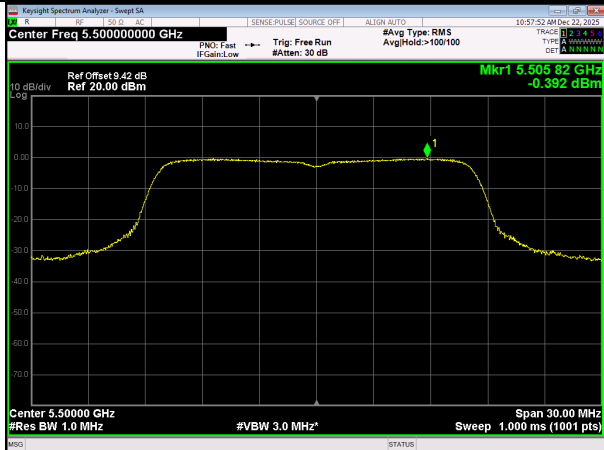


IEEE 802.11ac(VHT80)

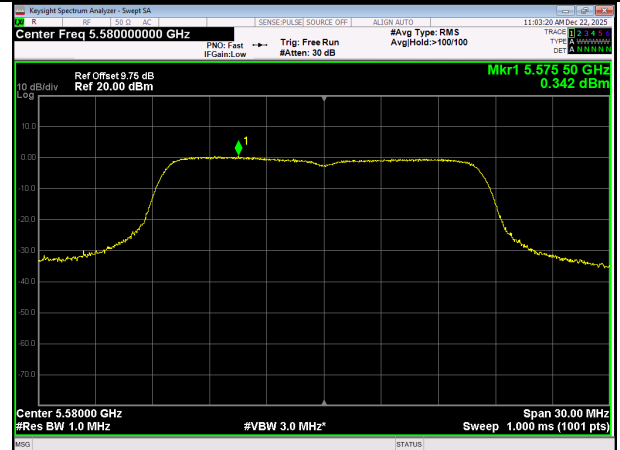


U-NII-2C Band

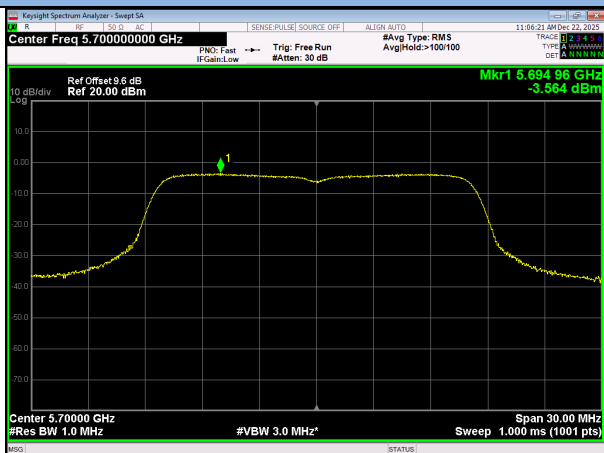
IEEE 802.11a Low Channel



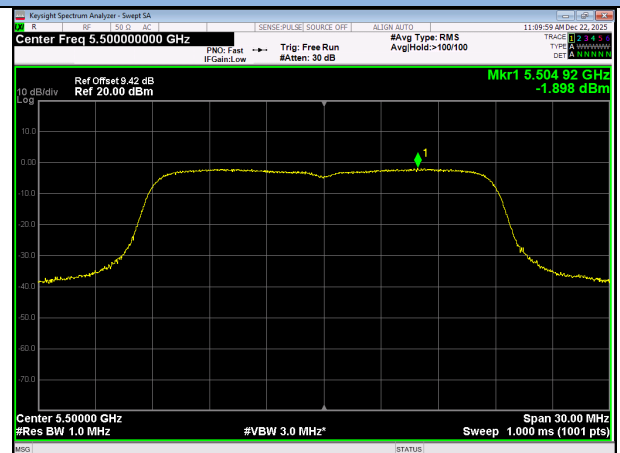
IEEE 802.11a Middle Channel



IEEE 802.11a High Channel



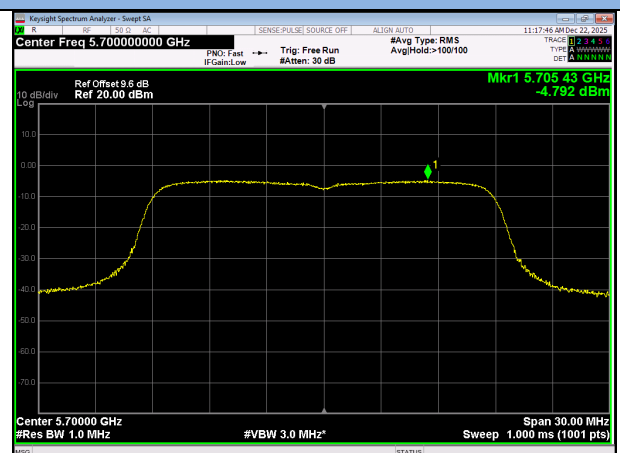
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

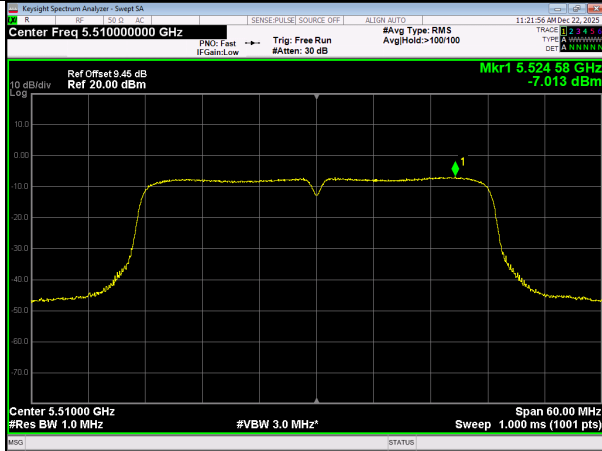


IEEE 802.11n(HT20) High Channel

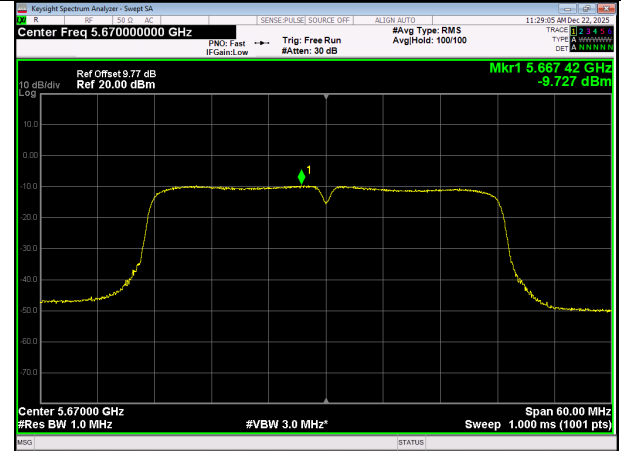


U-NII-2C Band

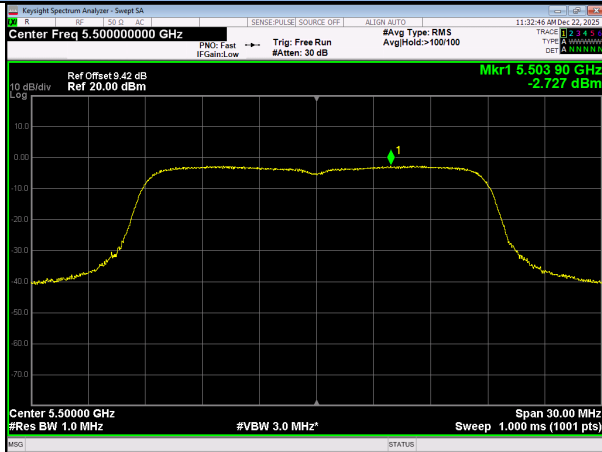
IEEE 802.11n(HT40) Low Channel



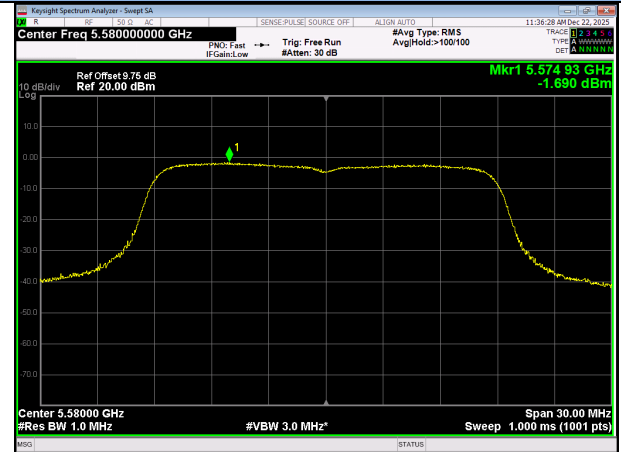
IEEE 802.11n(HT40) High Channel



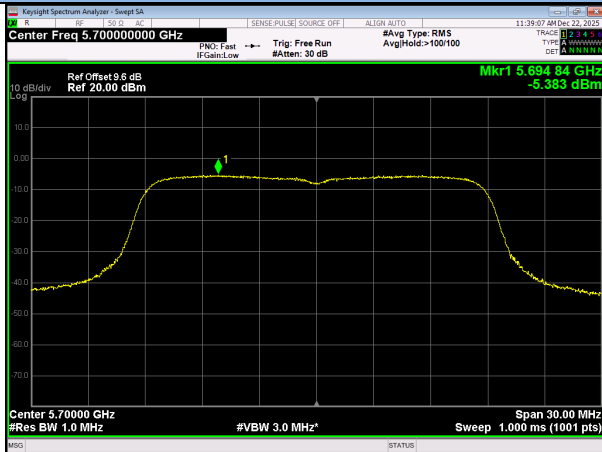
IEEE 802.11ac(VHT20) Low Channel



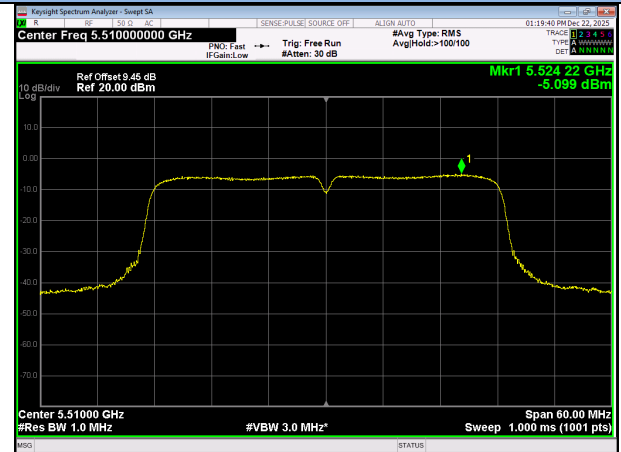
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

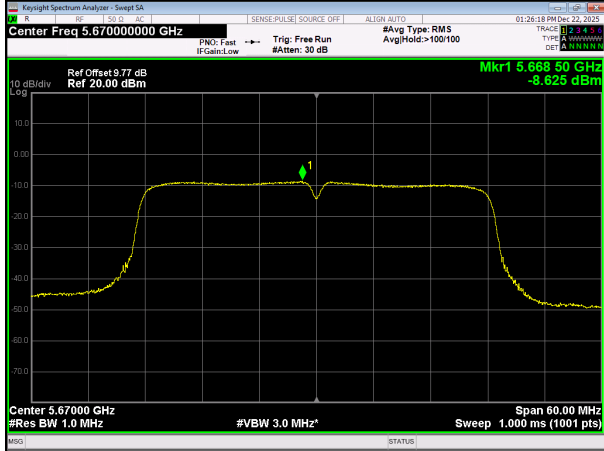


IEEE 802.11ac(VHT40) Low Channel

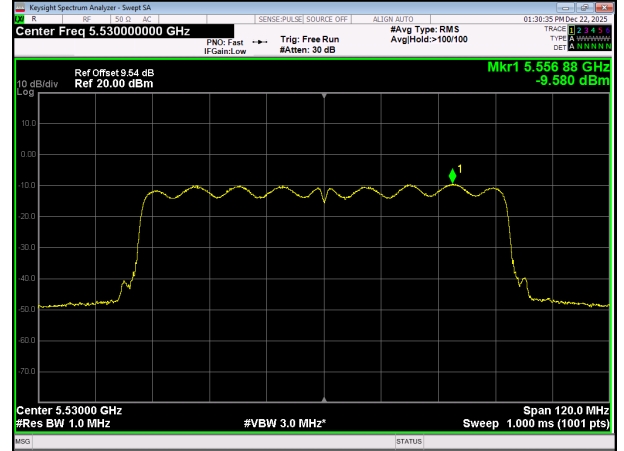


U-NII-2C Band

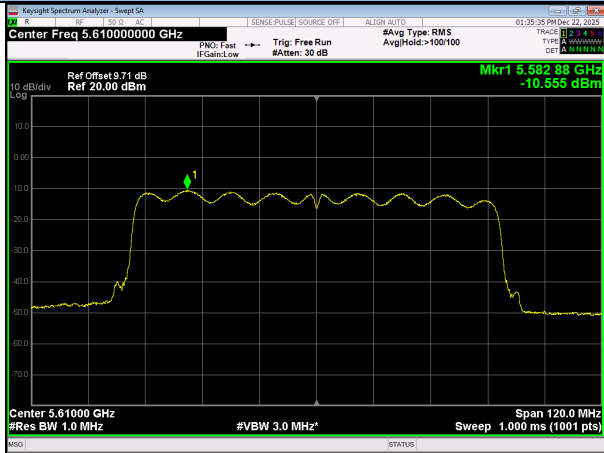
IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80) Low Channel



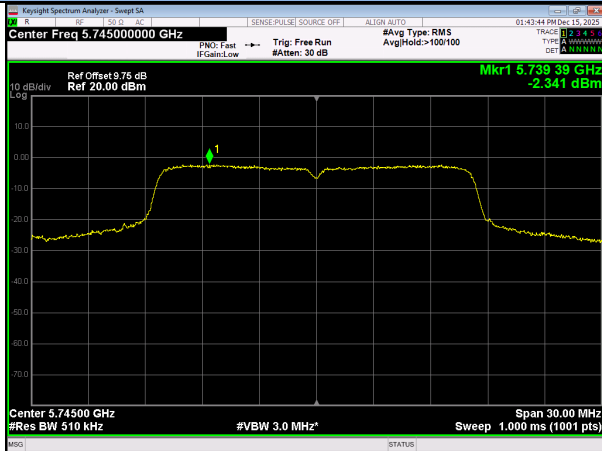
IEEE 802.11ac(VHT80) High Channel



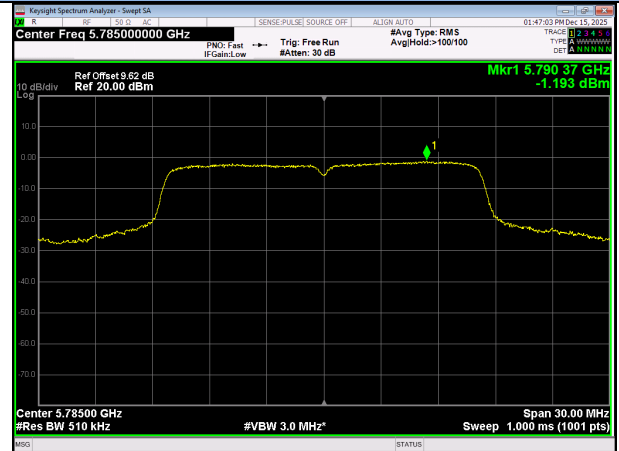
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U-NII-3 Band

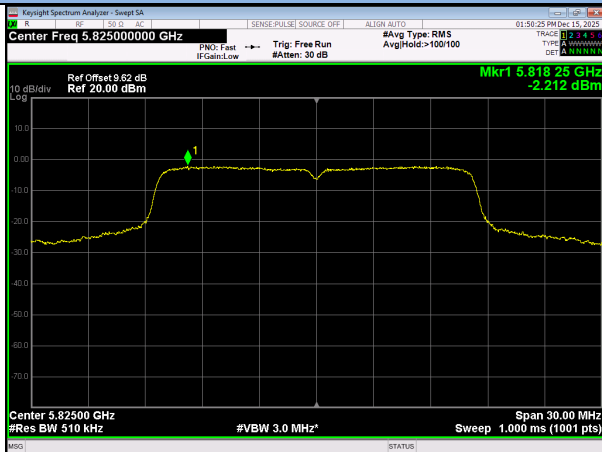
IEEE 802.11a Low Channel



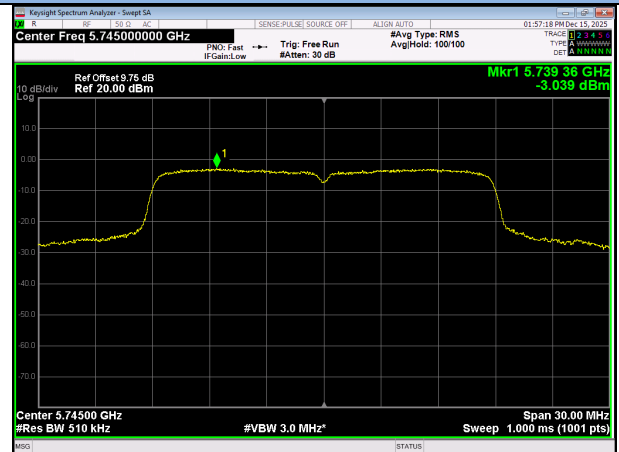
IEEE 802.11a Middle Channel



IEEE 802.11a High Channel



IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

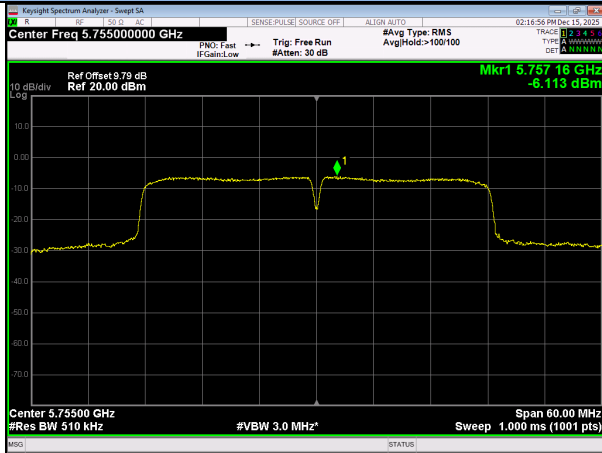


IEEE 802.11n(HT20) High Channel

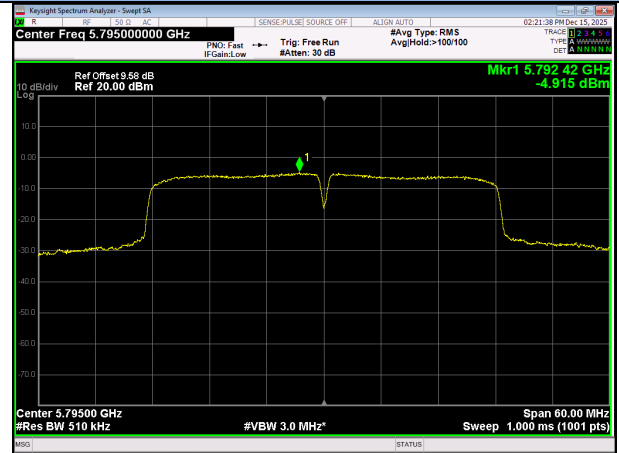


U-NII-3 Band

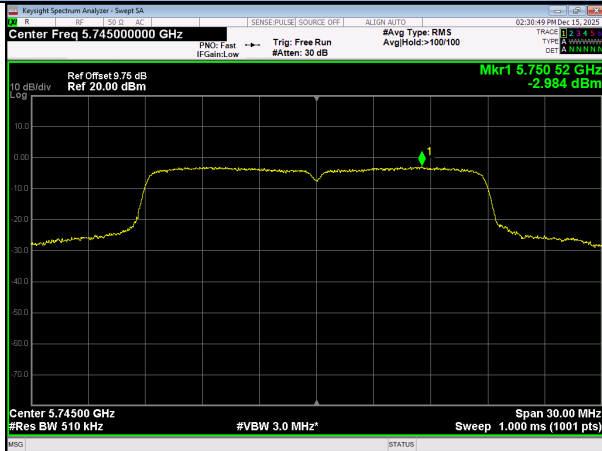
IEEE 802.11n(HT40) Low Channel



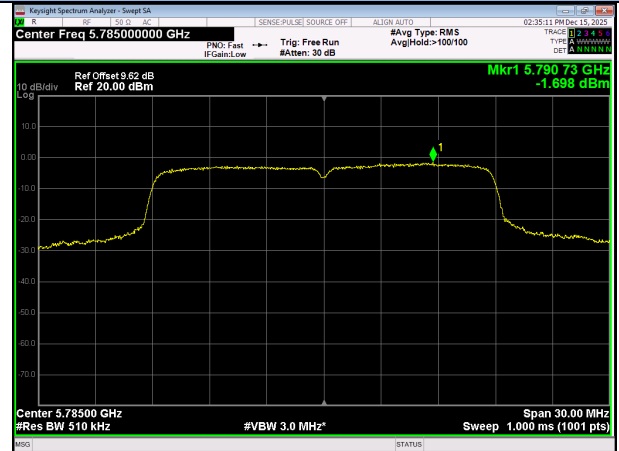
IEEE 802.11n(HT40) High Channel



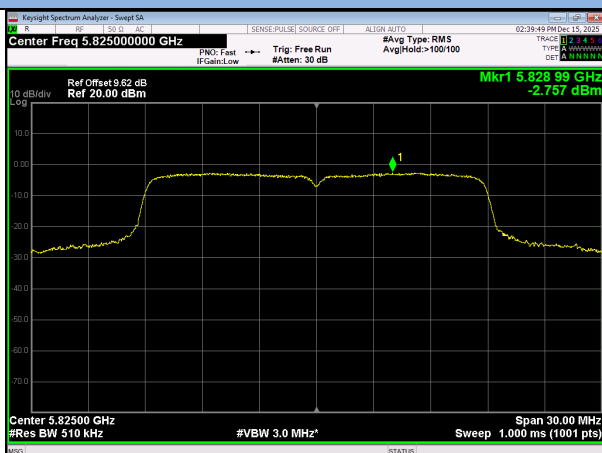
IEEE 802.11ac(VHT20) Low Channel



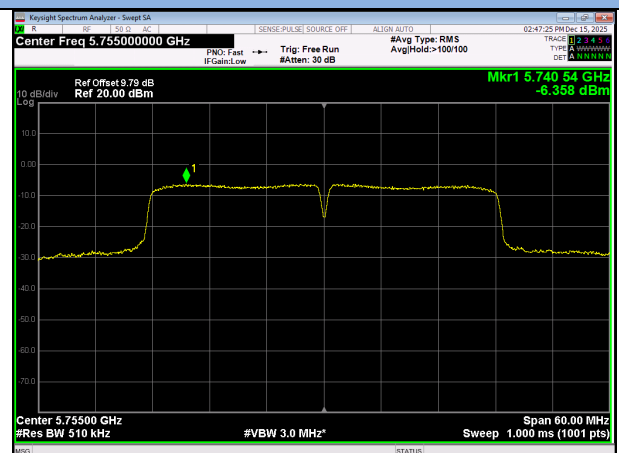
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

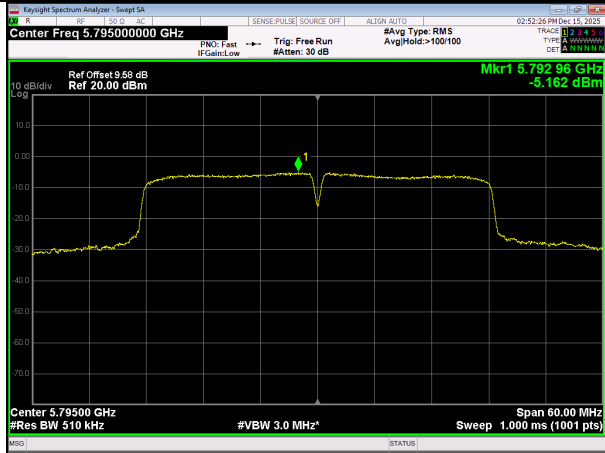


IEEE 802.11ac(VHT40) Low Channel

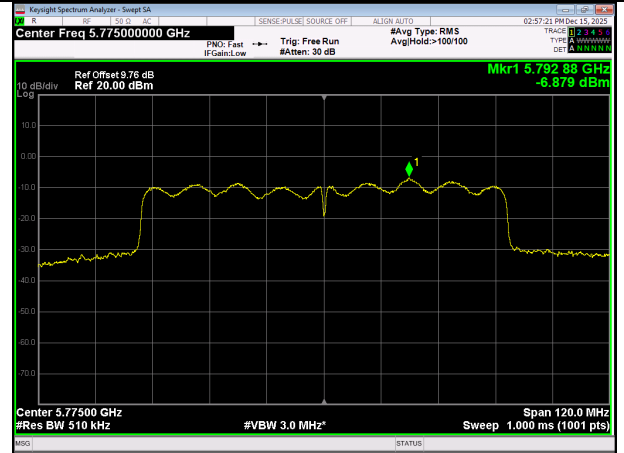


U-NII-3 Band

IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80)



14.6 Band Edge

LIMITS

For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

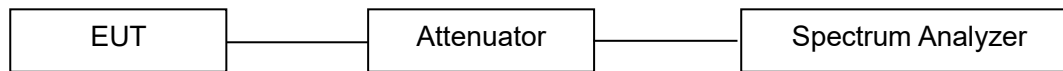
For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibration or a known signal from an external generator.
- b. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c. Set RBW to 1MHz and VBW to 3MHz of spectrum analyzer.
- d. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e. Repeat above procedures until all measured frequencies were complete.

TEST RESULTS

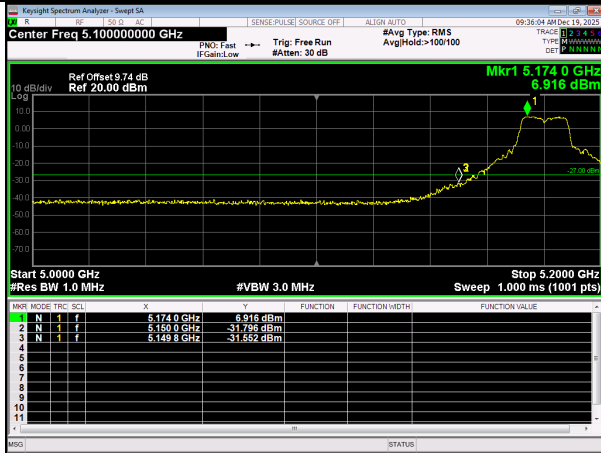
PASS

Please refer to following pages.

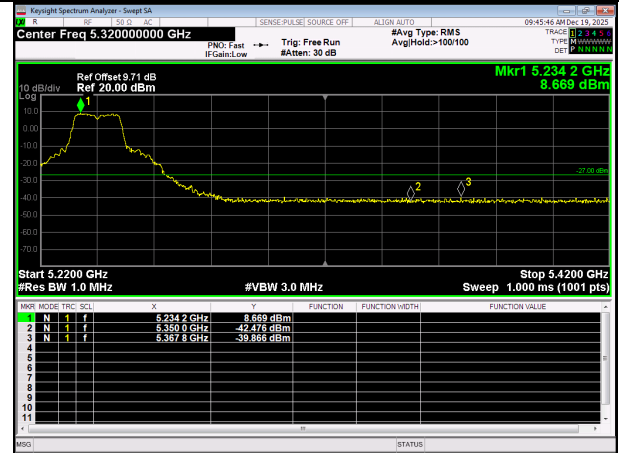
Note: Antenna gain was considered during the test.

U-NII-1 Band

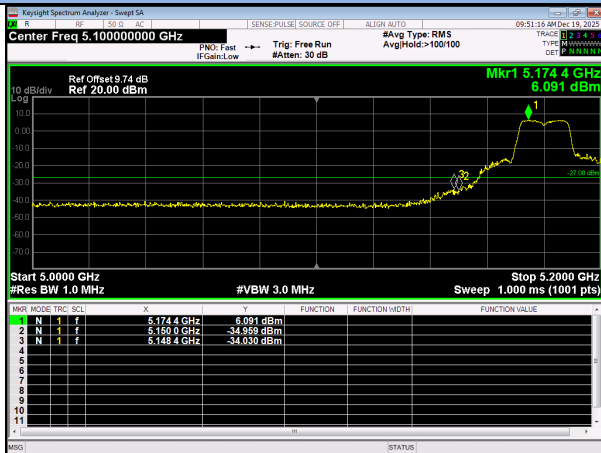
IEEE 802.11a Low Channel



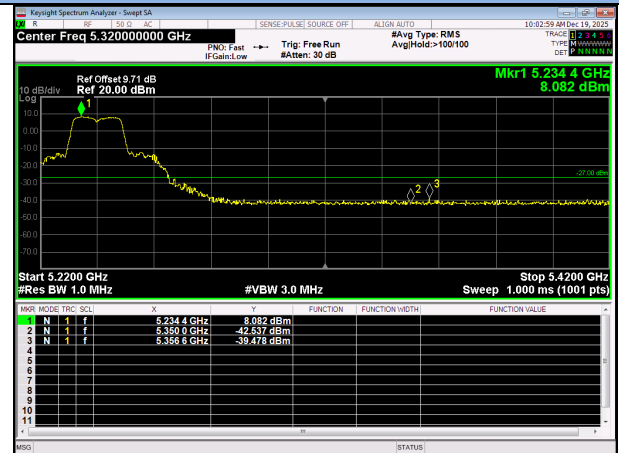
IEEE 802.11a High Channel



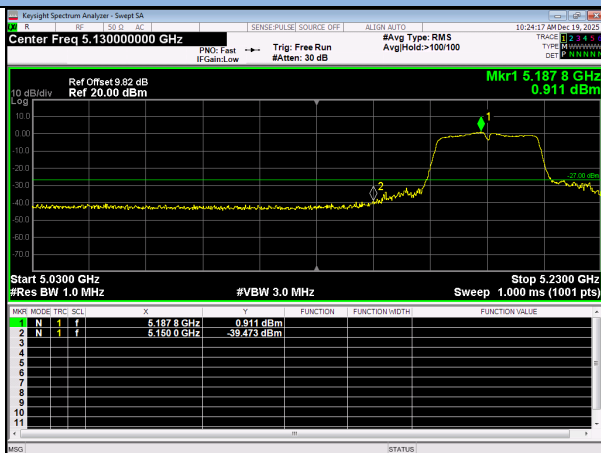
IEEE 802.11n(HT20) Low Channel



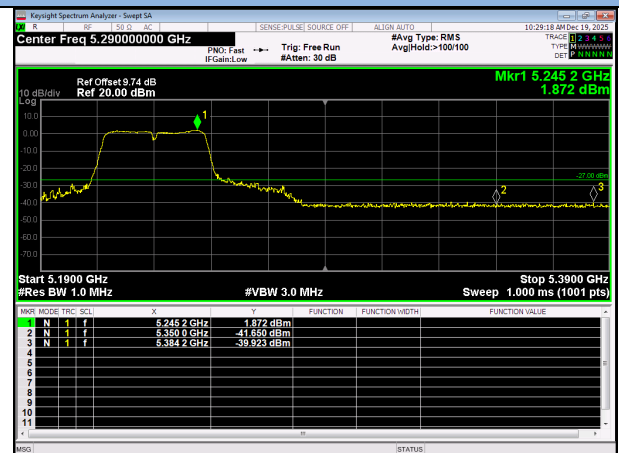
IEEE 802.11n(HT20) High Channel



IEEE 802.11n(HT40) Low Channel

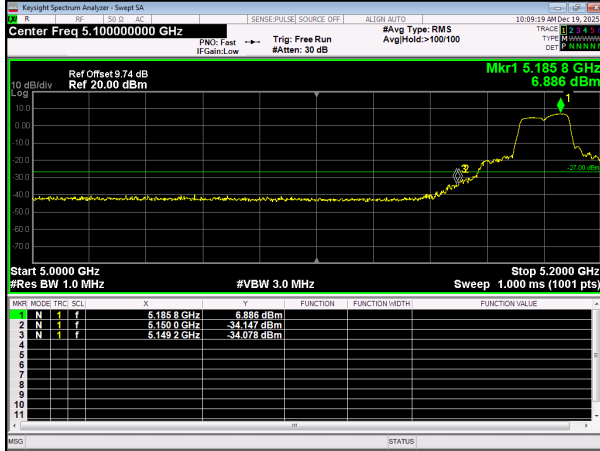


IEEE 802.11n(HT40) High Channel

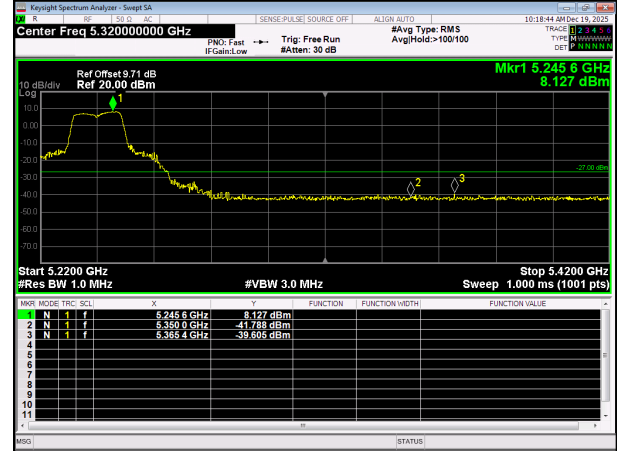


U-NII-1 Band

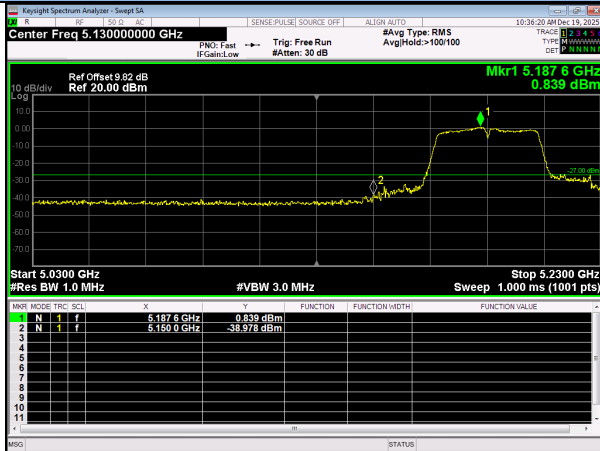
IEEE 802.11ac(VHT20) Low Channel



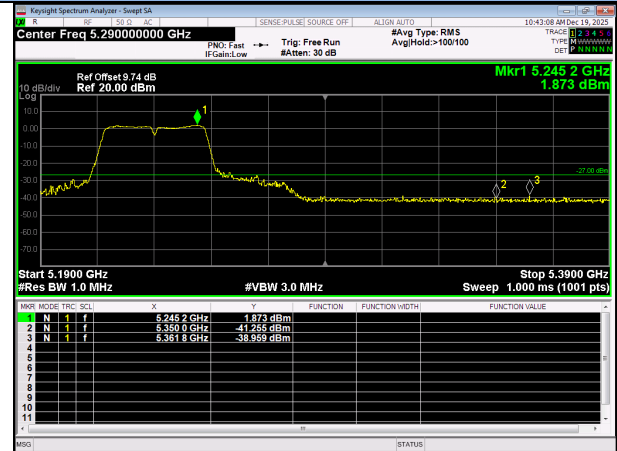
IEEE 802.11ac(VHT20) High Channel



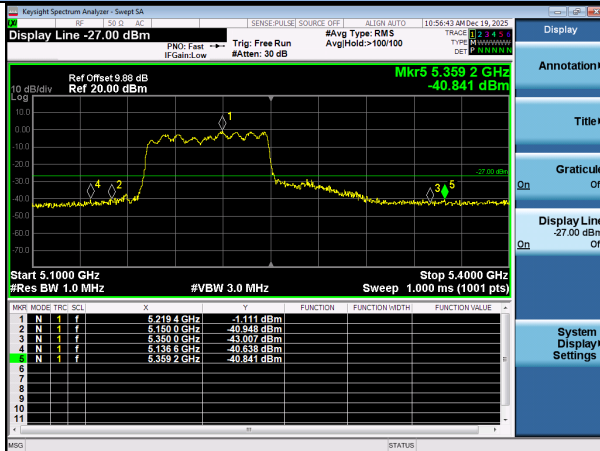
IEEE 802.11ac(VHT40) Low Channel



IEEE 802.11ac(VHT40) High Channel



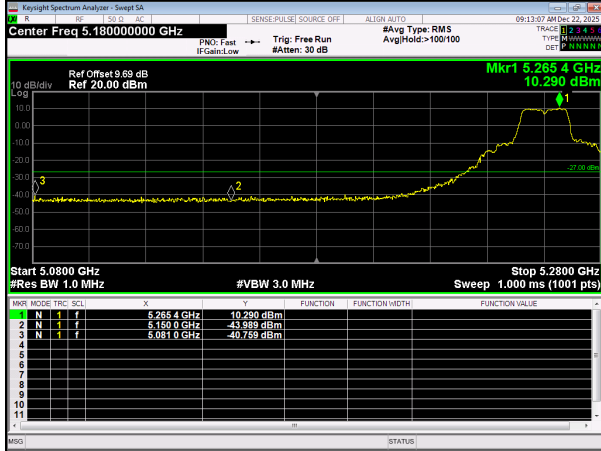
IEEE 802.11ac(VHT80)



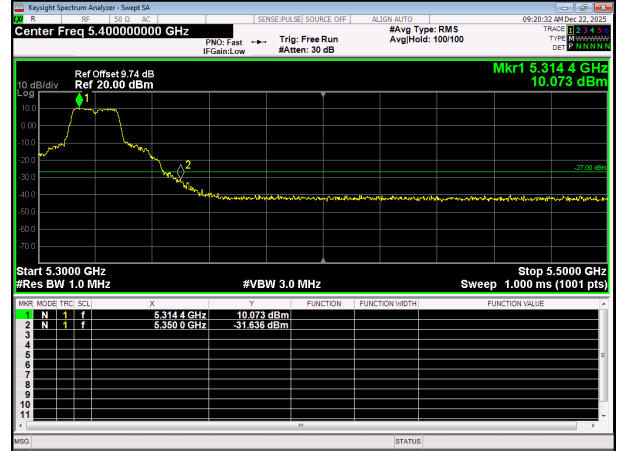
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U-NII-2A Band

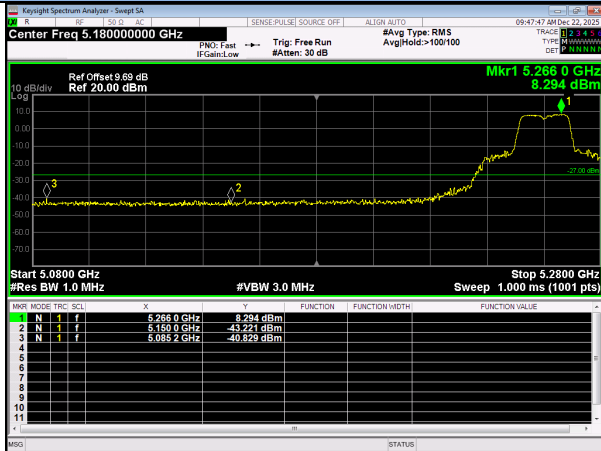
IEEE 802.11a Low Channel



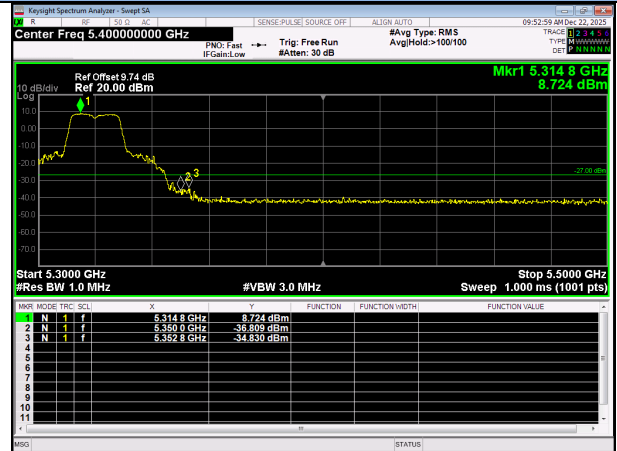
IEEE 802.11a High Channel



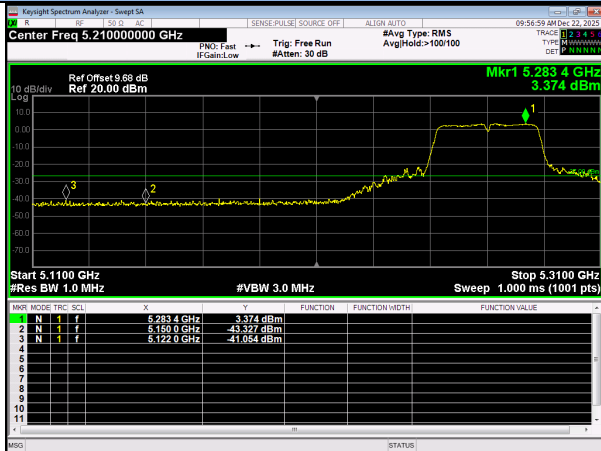
IEEE 802.11n(HT20) Low Channel



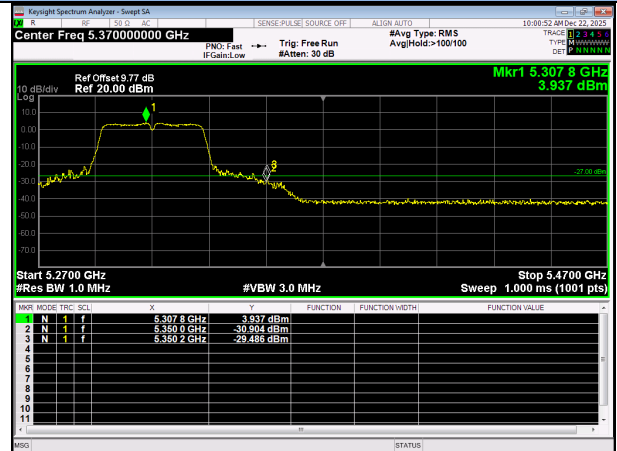
IEEE 802.11n(HT20) High Channel



IEEE 802.11n(HT40) Low Channel

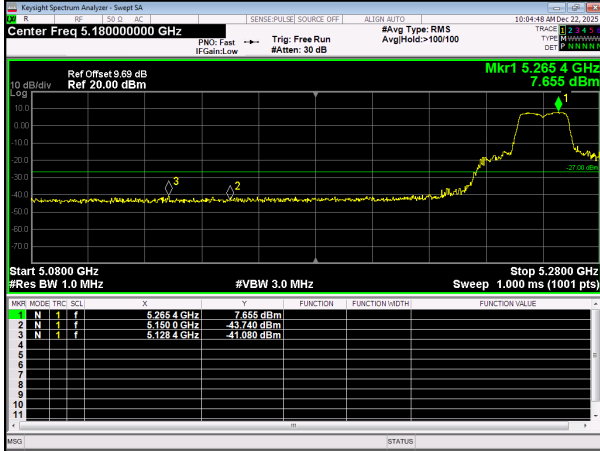


IEEE 802.11n(HT40) High Channel

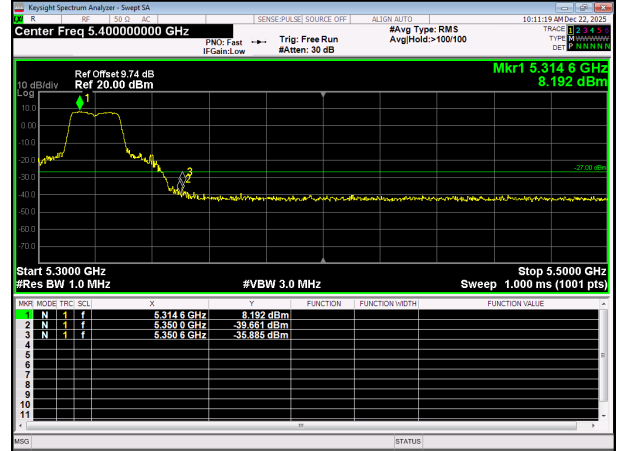


U-NII-2A Band

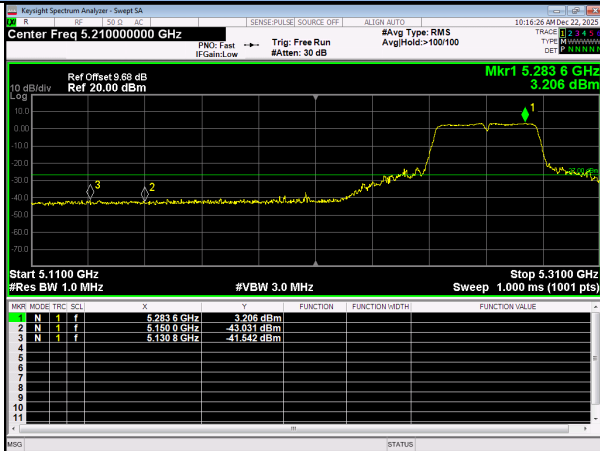
IEEE 802.11ac(VHT20) Low Channel



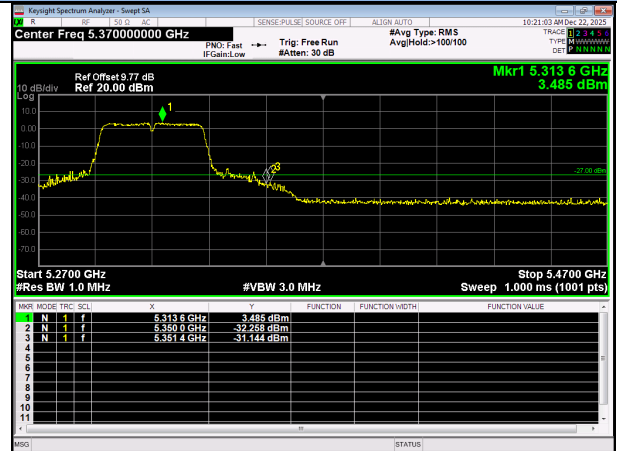
IEEE 802.11ac(VHT20) Middle Channel



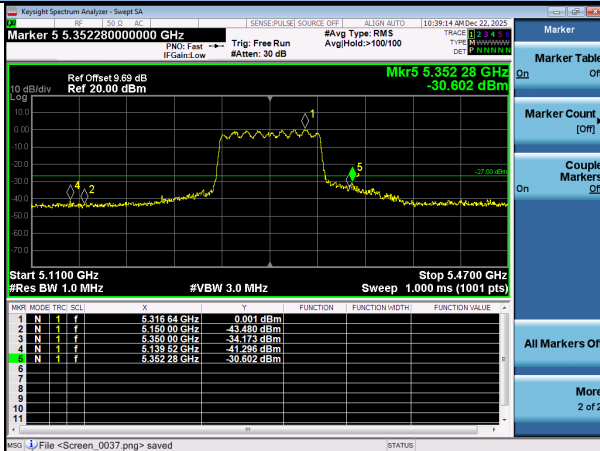
IEEE 802.11ac(VHT40) Low Channel



IEEE 802.11ac(VHT40) High Channel



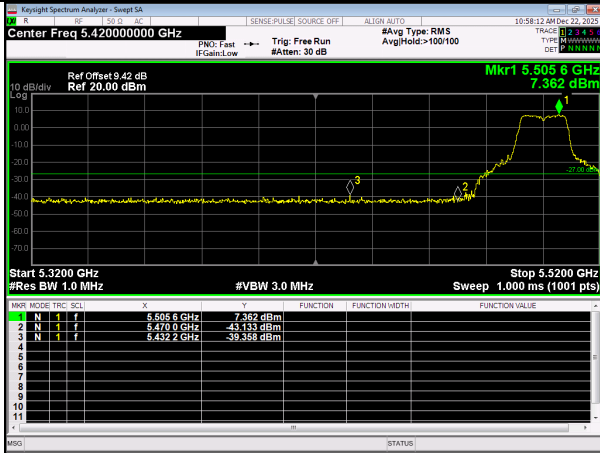
IEEE 802.11ac(VHT80)



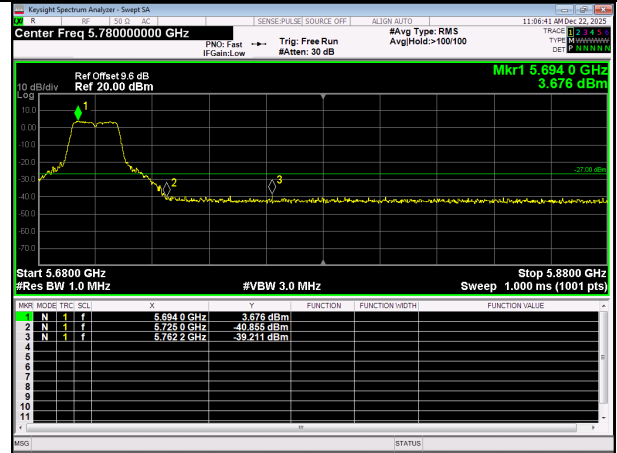
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U-NII-2C Band

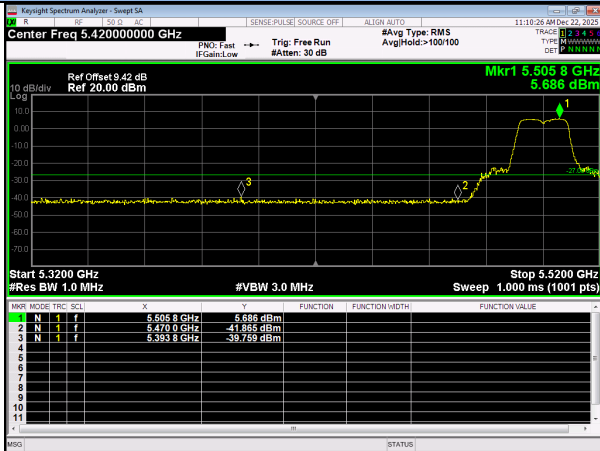
IEEE 802.11a Low Channel



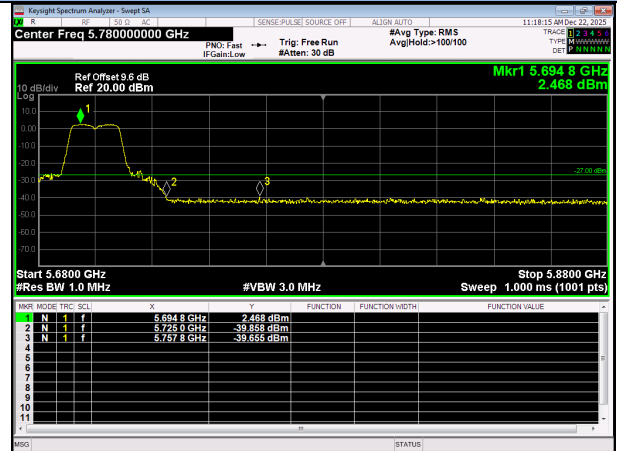
IEEE 802.11a High Channel



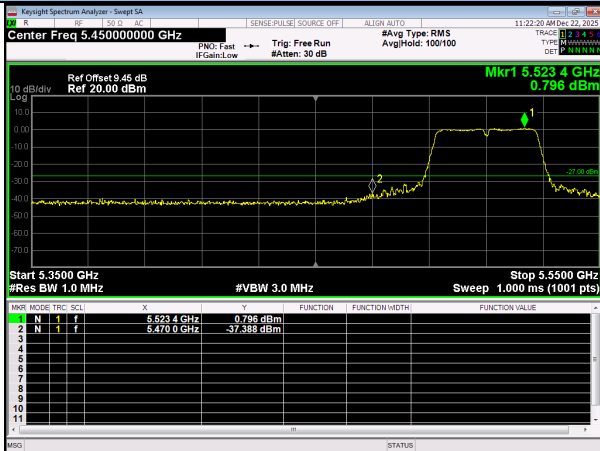
IEEE 802.11n(HT20) Low Channel



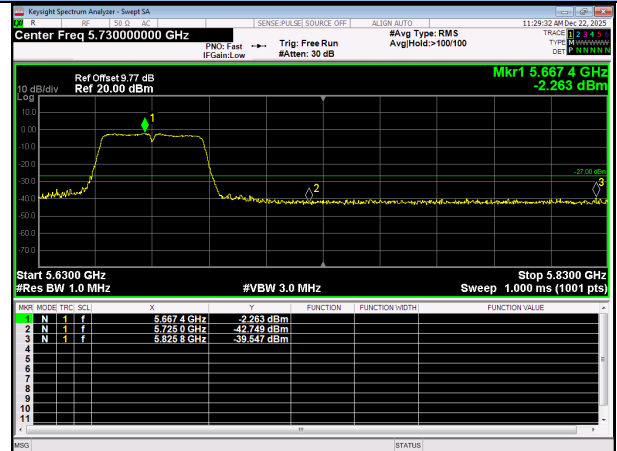
IEEE 802.11n(HT20) High Channel



IEEE 802.11n(HT40) Low Channel

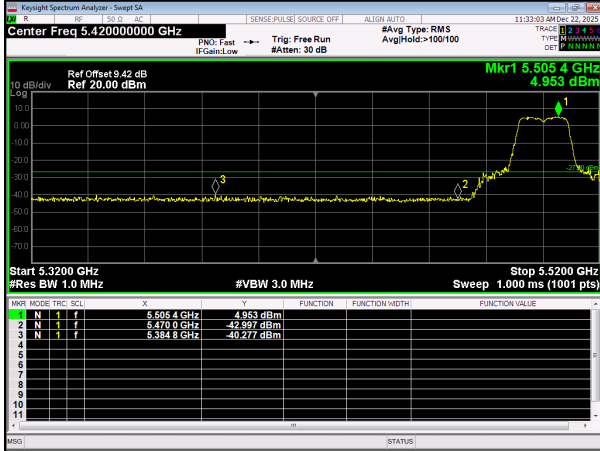


IEEE 802.11n(HT40) High Channel

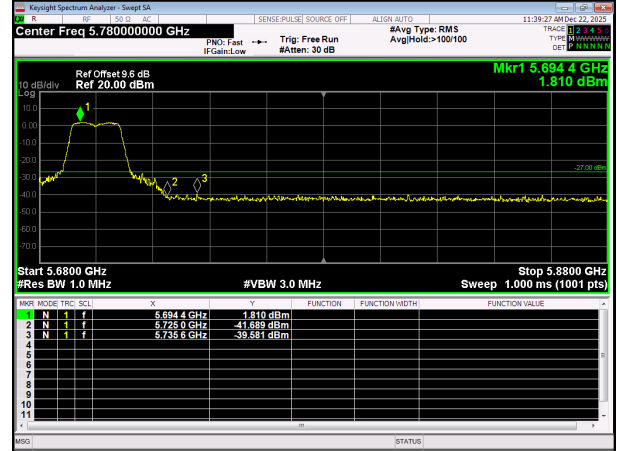


U-NII-2C Band

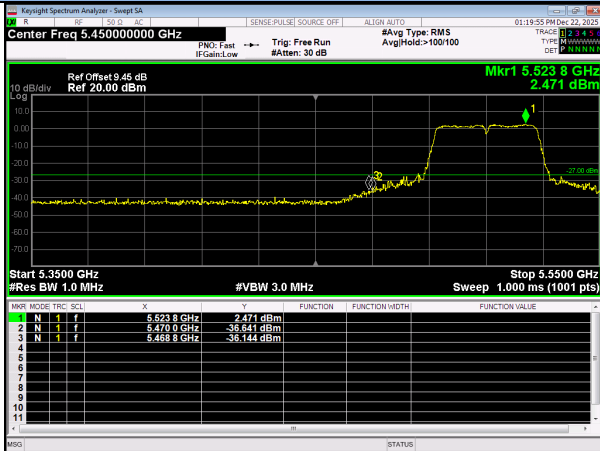
IEEE 802.11ac(VHT20) Low Channel



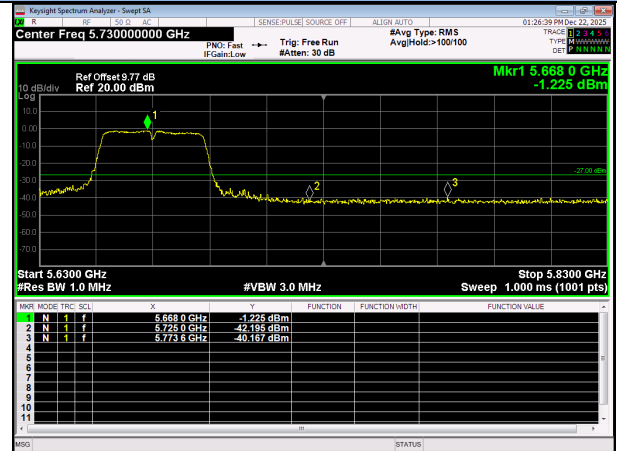
IEEE 802.11ac(VHT20) High Channel



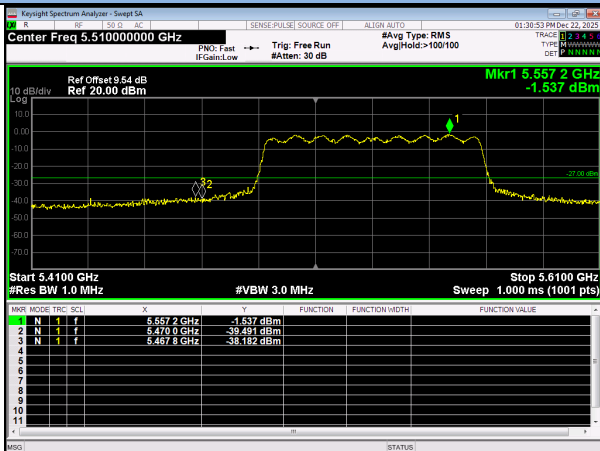
IEEE 802.11ac(VHT40) Low Channel



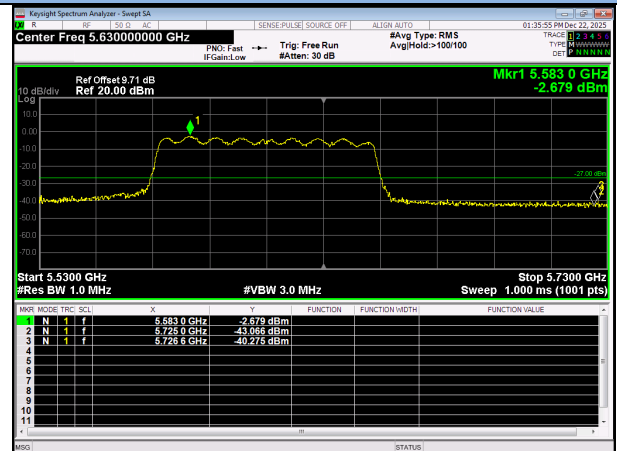
IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80) Low Channel

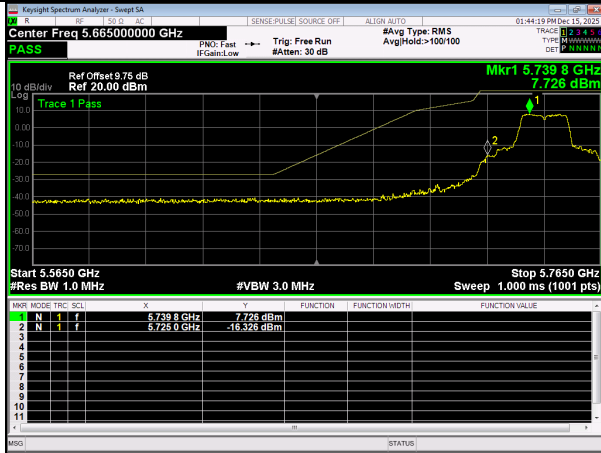


IEEE 802.11ac(VHT80) High Channel



U-NII-3 Band

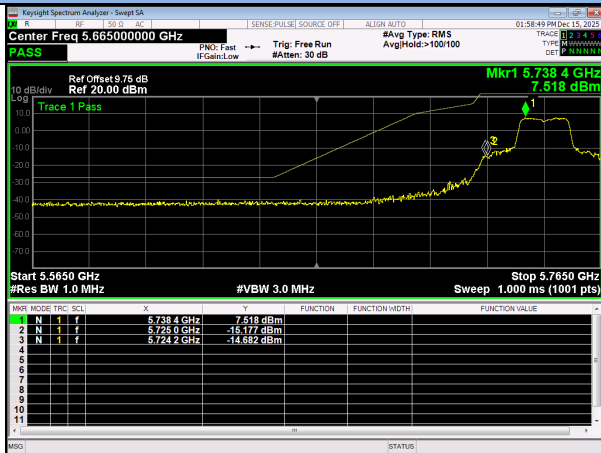
IEEE 802.11a Low Channel



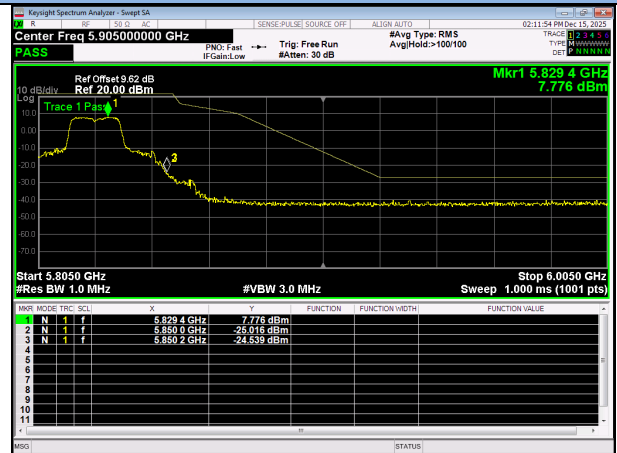
IEEE 802.11a High Channel



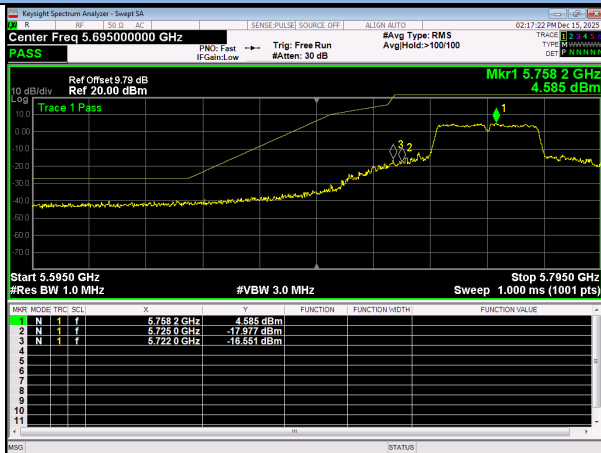
IEEE 802.11n(HT20) Low Channel



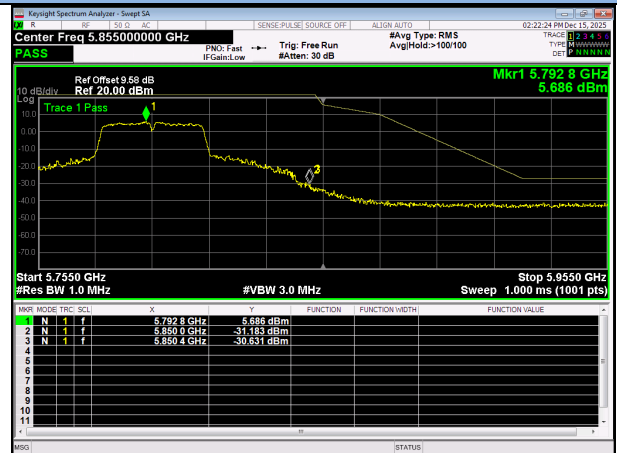
IEEE 802.11n(HT20) High Channel



IEEE 802.11n(HT40) Low Channel



IEEE 802.11n(HT40) High Channel



U-NII-3 Band

IEEE 802.11ac(VHT20) Low Channel



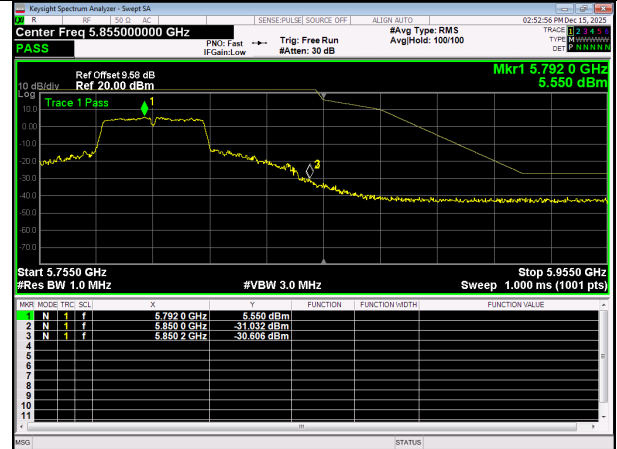
IEEE 802.11ac(VHT20) High Channel



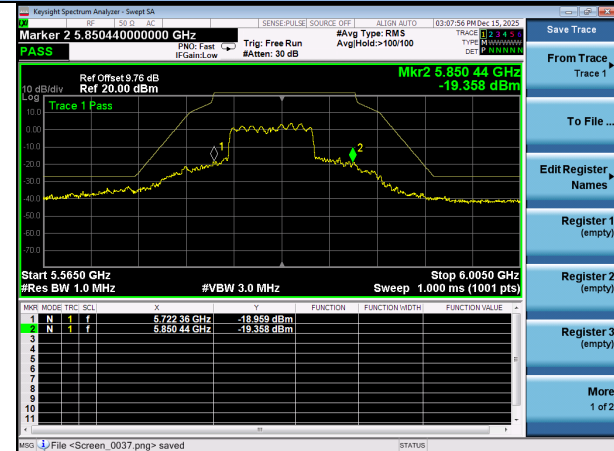
IEEE 802.11ac(VHT40) Low Channel



IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80)



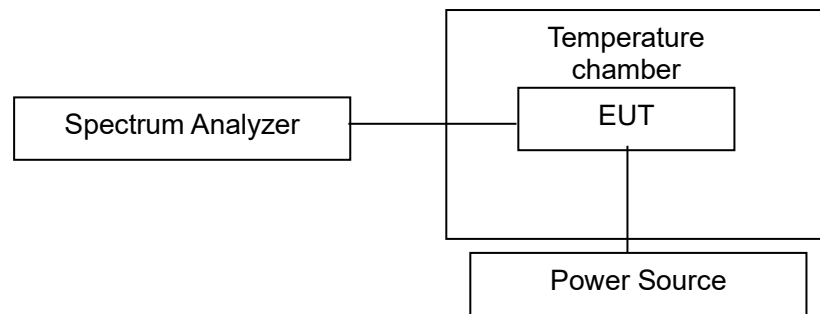
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14.7 Frequency Stability

LIMITS

Manufactures 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's manual.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The EUT was placed inside the environmental test chamber and powered by Power source.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

Note: The EUT set at un-modulation mode during frequency stability test.

TEST RESULTS

PASS

Please refer to the following pages.

U-NII-1 Band						
Lowest channel 5180MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5179.9621	5179.9626	5179.9628	5179.9628	Pass
5		5179.9625	5179.9627	5179.9625	5179.9625	Pass
10		5179.9622	5179.9625	5179.9622	5179.9624	Pass
15		5179.9627	5179.9622	5179.9625	5179.9623	Pass
25		5179.9620	5179.9624	5179.9630	5179.9629	Pass
35		5179.9625	5179.9627	5179.9627	5179.9624	Pass
45		5179.9622	5179.9625	5179.9624	5179.9625	Pass
25	108	5179.9630	5179.9622	5179.9622	5179.9621	Pass
25	132	5179.9624	5179.9627	5179.9629	5179.9628	Pass
Highest channel 5240MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5239.9833	5239.9831	5239.9632	5239.9836	Pass
5		5239.9831	5239.9836	5239.9632	5239.9835	Pass
10		5239.9830	5239.9635	5239.9635	5239.9630	Pass
15		5239.9835	5239.9834	5239.9431	5239.9431	Pass
25		5239.9436	5239.9839	5239.9832	5239.9835	Pass
35		5239.9436	5239.9433	5239.9833	5239.9839	Pass
45		5239.9633	5239.9631	5239.9634	5239.9634	Pass
25	108	5239.9831	5239.9430	5239.9439	5239.9437	Pass
25	132	5239.9629	5239.9634	5239.9837	5239.9633	Pass

Note: EUT temperature working range is 0 to 45.

U-NII-2A Band						
Lowest channel 5260MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5259.9870	5259.9876	5259.9875	5259.9878	Pass
5		5259.9873	5259.9872	5259.9873	5259.9874	Pass
10		5259.9872	5259.9871	5259.9877	5259.9876	Pass
15		5259.9879	5259.9879	5259.9874	5259.9877	Pass
25		5259.9877	5259.9877	5259.9879	5259.9875	Pass
35		5259.9870	5259.9871	5259.9876	5259.9876	Pass
45		5259.9871	5259.9875	5259.9874	5259.9879	Pass
25	108	5259.9874	5259.9876	5259.9872	5259.9877	Pass
25	132	5259.9873	5259.9874	5259.9878	5259.9871	Pass
Highest channel 5320MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5319.9610	5319.9615	5319.9618	5319.9620	Pass
5		5319.9613	5319.9613	5319.9613	5319.9611	Pass
10		5319.9611	5319.9619	5319.9615	5319.9616	Pass
15		5319.9612	5319.9614	5319.9616	5319.9614	Pass
25		5319.9418	5319.9411	5319.9418	5319.9417	Pass
35		5319.9811	5319.9810	5319.9819	5319.9813	Pass
45		5319.9619	5319.9616	5319.9620	5319.9619	Pass
25	108	5319.9620	5319.9612	5319.9620	5319.9620	Pass
25	132	5319.9618	5319.9620	5319.9622	5319.9619	Pass

Note: EUT temperature working range is 0 to 45.

U-NII-2C Band						
Lowest channel 5500MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5499.9636	5499.9637	5499.9638	5499.9631	Pass
5		5499.9633	5499.9631	5499.9633	5499.9633	Pass
10		5499.9631	5499.9630	5499.9633	5499.9634	Pass
15		5499.9639	5499.9638	5499.9637	5499.9634	Pass
25		5499.9635	5499.9636	5499.9634	5499.9639	Pass
35		5499.9634	5499.9634	5499.9633	5499.9636	Pass
45		5499.9631	5499.9636	5499.9634	5499.9635	Pass
25	108	5499.9633	5499.9633	5499.9632	5499.9634	Pass
25	132	5499.9638	5499.9637	5499.9638	5499.9637	Pass
Highest channel 5700MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5699.9644	5699.9645	5699.9646	5699.9642	Pass
5		5699.9636	5699.9641	5699.9639	5699.9643	Pass
10		5699.9646	5699.9649	5699.9642	5699.9646	Pass
15		5699.9642	5699.9648	5699.9645	5699.9649	Pass
25		5699.9640	5699.9647	5699.9644	5699.9648	Pass
35		5699.9644	5699.9640	5699.9649	5699.9641	Pass
45		5699.9641	5699.9646	5699.9646	5699.9647	Pass
25	108	5699.9649	5699.9646	5699.9642	5699.9646	Pass
25	132	5699.9642	5699.9643	5699.9644	5699.9640	Pass

Note: EUT temperature working range is 0 to 45.

U-NII-3 Band						
Lowest channel 5745MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5744.9415	5744.9416	5744.9418	5744.9417	Pass
5		5744.9419	5744.9418	5744.9417	5744.9419	Pass
10		5744.9410	5744.9411	5744.9413	5744.9412	Pass
15		5744.9415	5744.9415	5744.9416	5744.9417	Pass
25		5744.9414	5744.9416	5744.9415	5744.9413	Pass
35		5744.9413	5744.9414	5744.9412	5744.9413	Pass
45		5744.9417	5744.9416	5744.9415	5744.9416	Pass
25	108	5744.9418	5744.9416	5744.9411	5744.9413	Pass
25	132	5744.9411	5744.9413	5744.9417	5744.9419	Pass
Highest channel 5825MHz						
Temperature (°C)	Power Supplied (V)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120	5824.9636	5824.9637	5824.9639	5824.9638	Pass
5		5824.9633	5824.9635	5824.9634	5824.9631	Pass
10		5824.9634	5824.9635	5824.9634	5824.9632	Pass
15		5824.9638	5824.9637	5824.9636	5824.9636	Pass
25		5824.9637	5824.9639	5824.9638	5824.9637	Pass
35		5824.9634	5824.9633	5824.9636	5824.9635	Pass
45		5824.9632	5824.9630	5824.9633	5824.9633	Pass
25	108	5824.9630	5824.9631	5824.9632	5824.9632	Pass
25	132	5824.9633	5824.9633	5824.9633	5824.9631	Pass

Note: EUT temperature working range is 0 to 45.

14.8 Radiated Spurious Emissions and Restricted Bands Measurement and Band Edge

LIMITS

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

- Remark:
- (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$.
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
 - (5) §15.407 specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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.

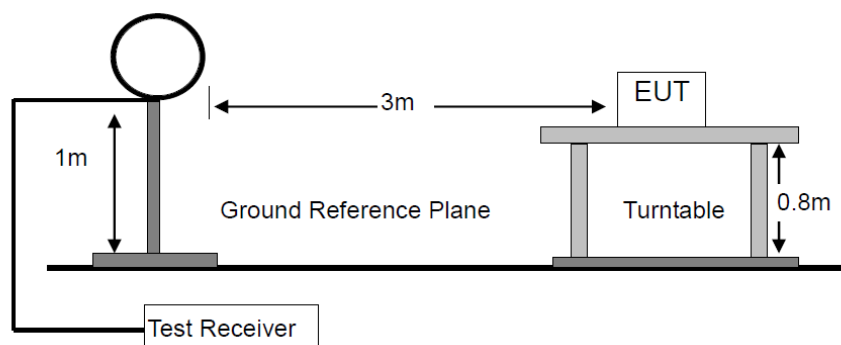
For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge

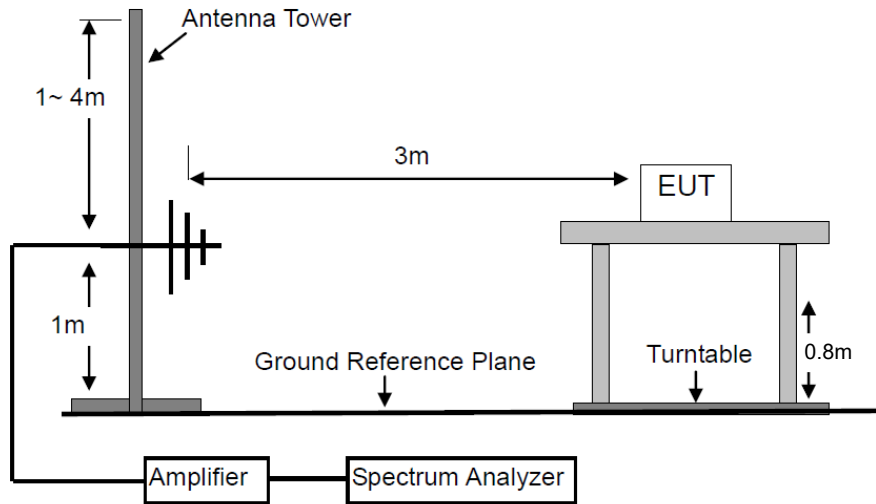
increasing linearly to a level of 27dBm/MHz at the band edge.

BLOCK DIAGRAM OF TEST SETUP

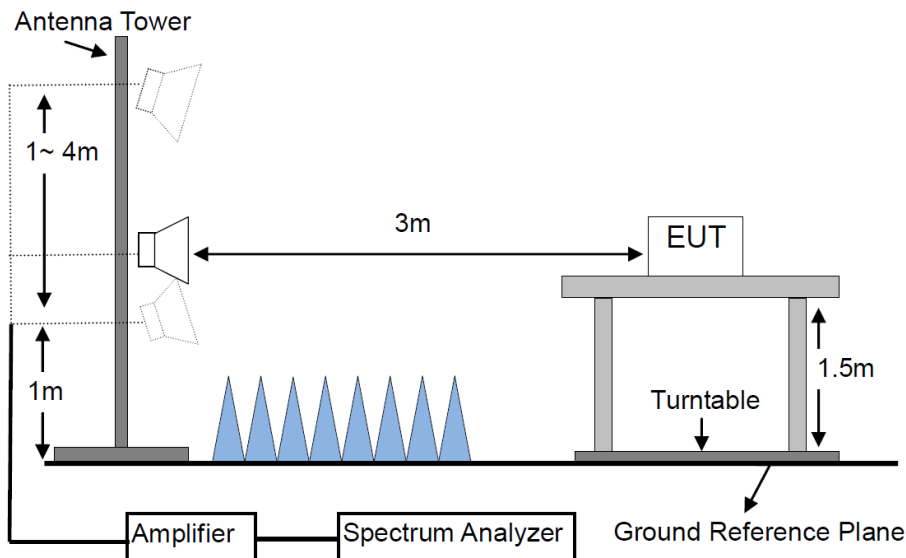
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
0.009~0.15	QP & AVG	200 Hz	1 kHz
0.15~30	QP & AVG	10 kHz	30 kHz
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

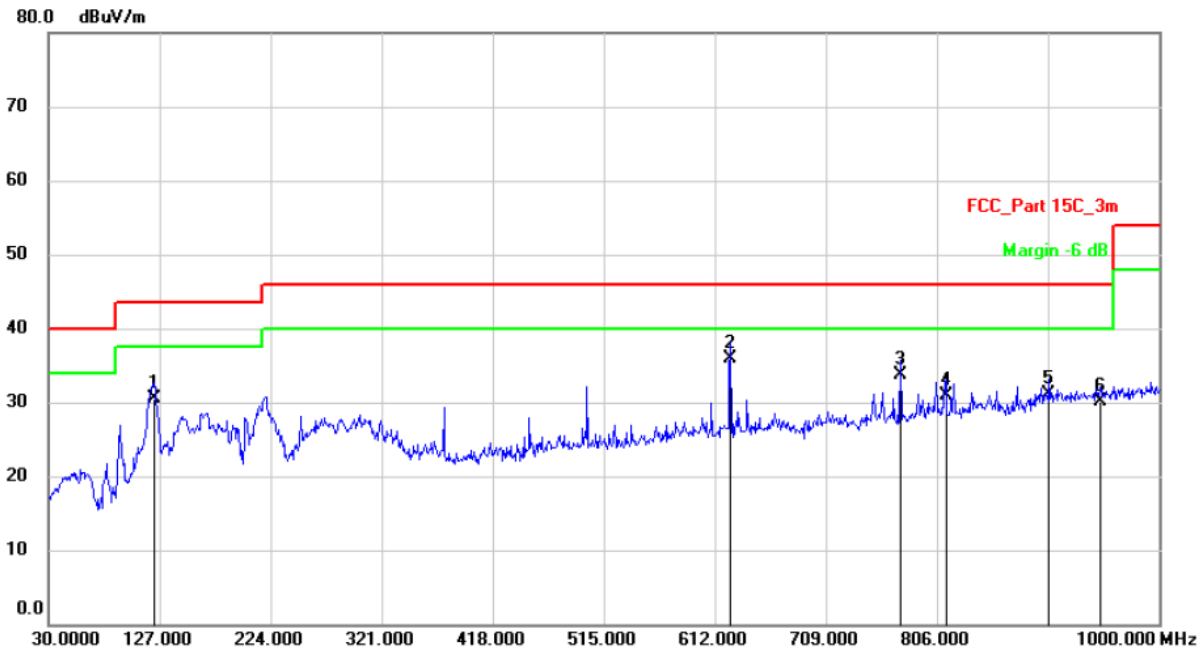
Please refer to the following pages of the worst case.

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: QP
Test Mode: 2	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/29

Time: 15:54:24



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		122.1500	40.26	-9.66	30.60	43.50	-12.90	QP	
2	*	625.5800	35.03	0.97	36.00	46.00	-10.00	QP	
3		773.9900	30.21	3.49	33.70	46.00	-12.30	QP	
4		813.7600	26.79	4.21	31.00	46.00	-15.00	QP	
5		903.9700	24.90	6.20	31.10	46.00	-14.90	QP	
6		948.5900	23.93	6.27	30.20	46.00	-15.80	QP	

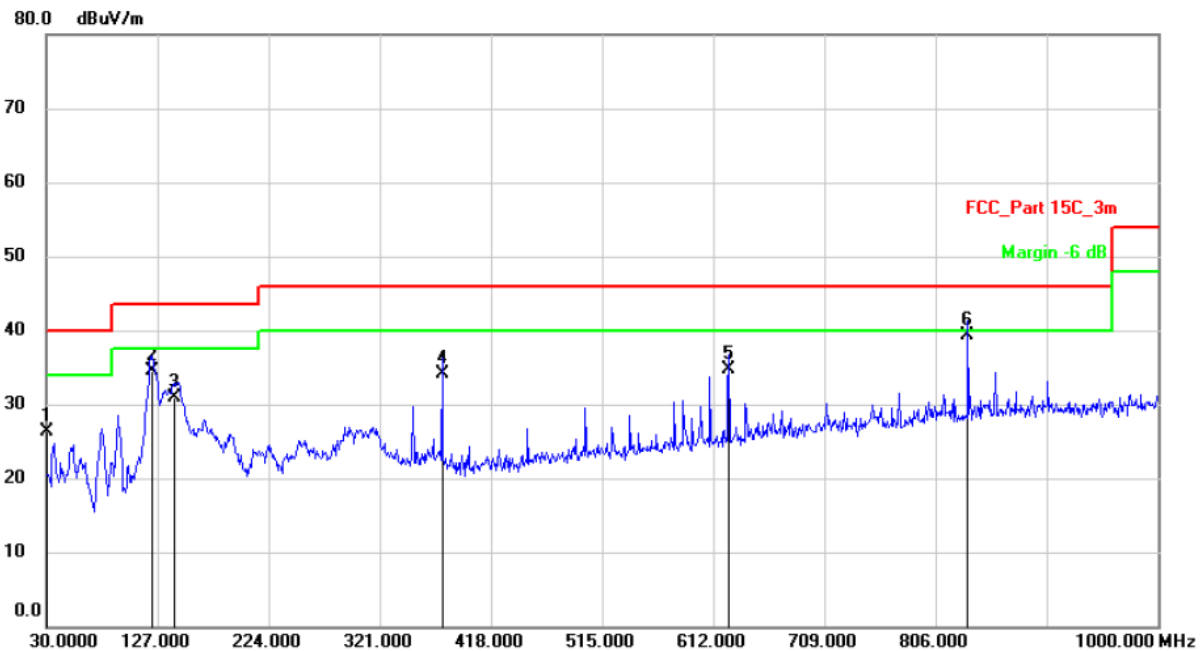
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: QP
Test Mode: 2	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/29

Time: 15:47:52



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	36.99	-10.69	26.30	40.00	-13.70	QP	
2		122.1500	45.65	-11.15	34.50	43.50	-9.00	QP	
3		141.5500	42.44	-11.54	30.90	43.50	-12.60	QP	
4		375.3200	39.01	-4.81	34.20	46.00	-11.80	QP	
5		625.5800	34.51	0.19	34.70	46.00	-11.30	QP	
6	*	834.1300	34.76	4.54	39.30	46.00	-6.70	QP	

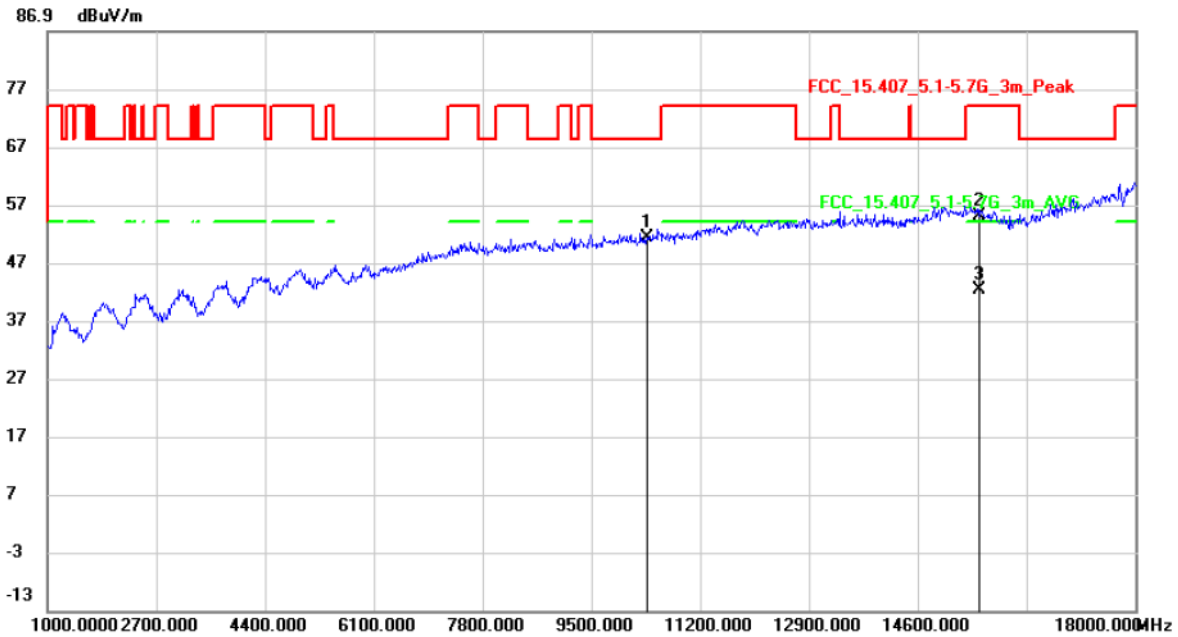
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11a / Low Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 19:57:15



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.000	39.63	11.70	51.33	68.20	-16.87	peak	
2		15540.000	39.67	15.47	55.14	74.00	-18.86	peak	
3	*	15540.000	26.79	15.47	42.26	54.00	-11.74	AVG	

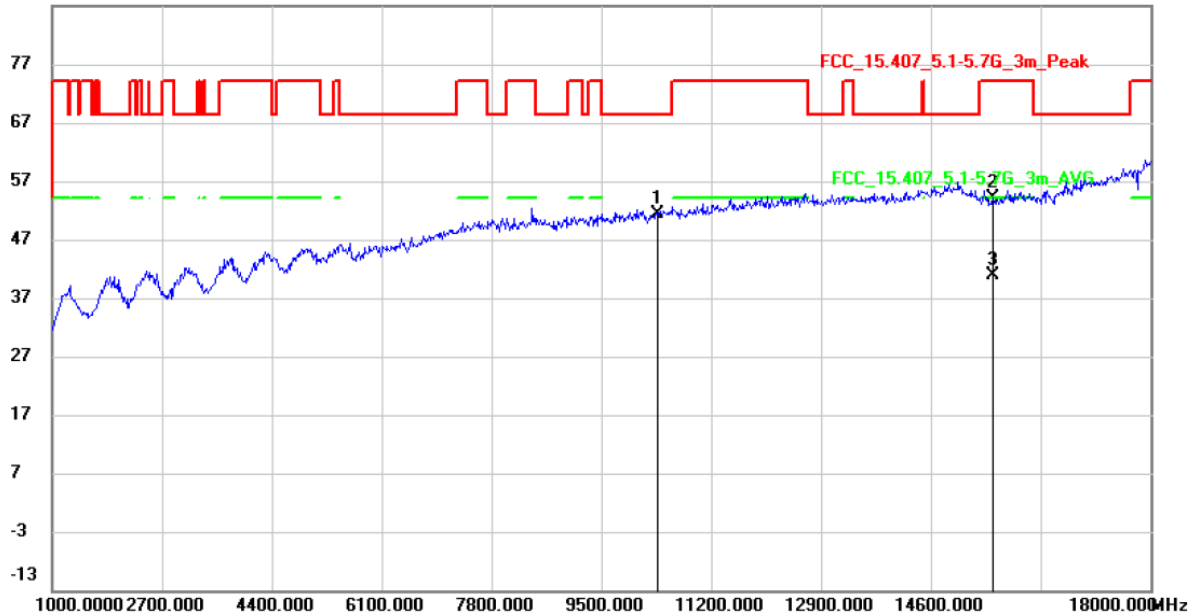
M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11 a / Low Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 20:04:20

86.9 dBuV/m



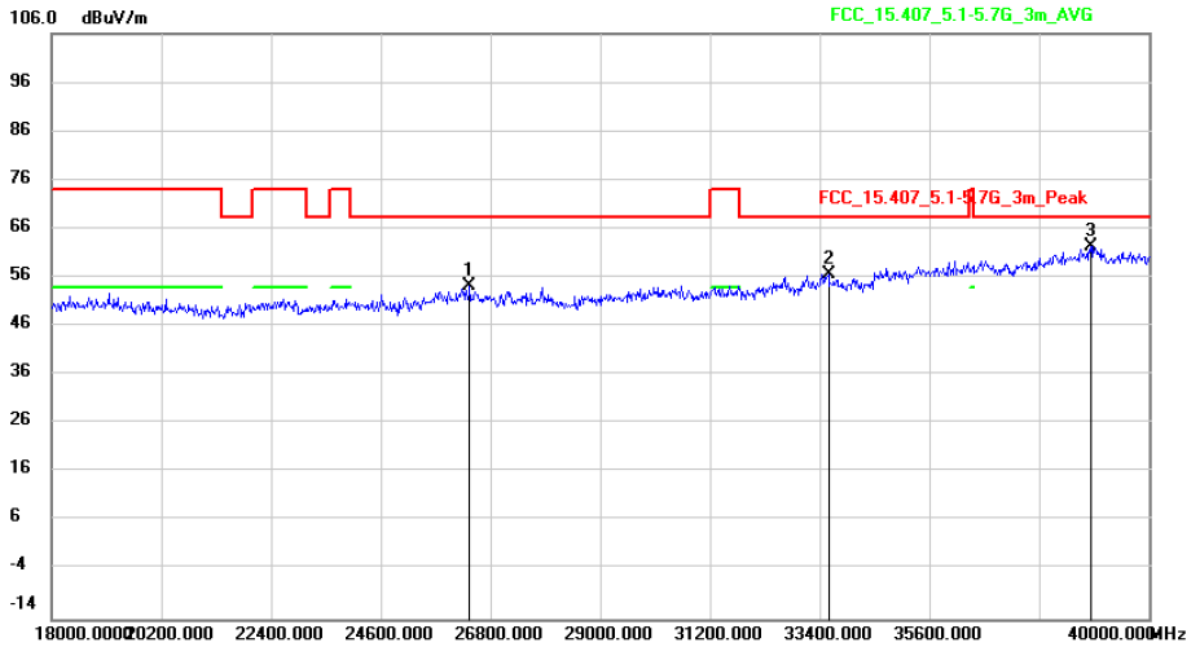
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		10360.000	39.59	11.70	51.29	68.20	-16.91	peak
2		15540.000	40.66	13.35	54.01	74.00	-19.99	peak
3	*	15540.000	27.33	13.35	40.68	54.00	-13.32	AVG

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11 a / Low Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2025/12/27

Time: 10:12:30



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		26382.000	46.93	7.18	54.11	68.20	-14.09	peak
2		33576.000	46.38	10.33	56.71	68.20	-11.49	peak
3	*	38834.000	49.62	12.82	62.44	68.20	-5.76	peak

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11 a / Low Channel / U-NII-1	Distance: 3m

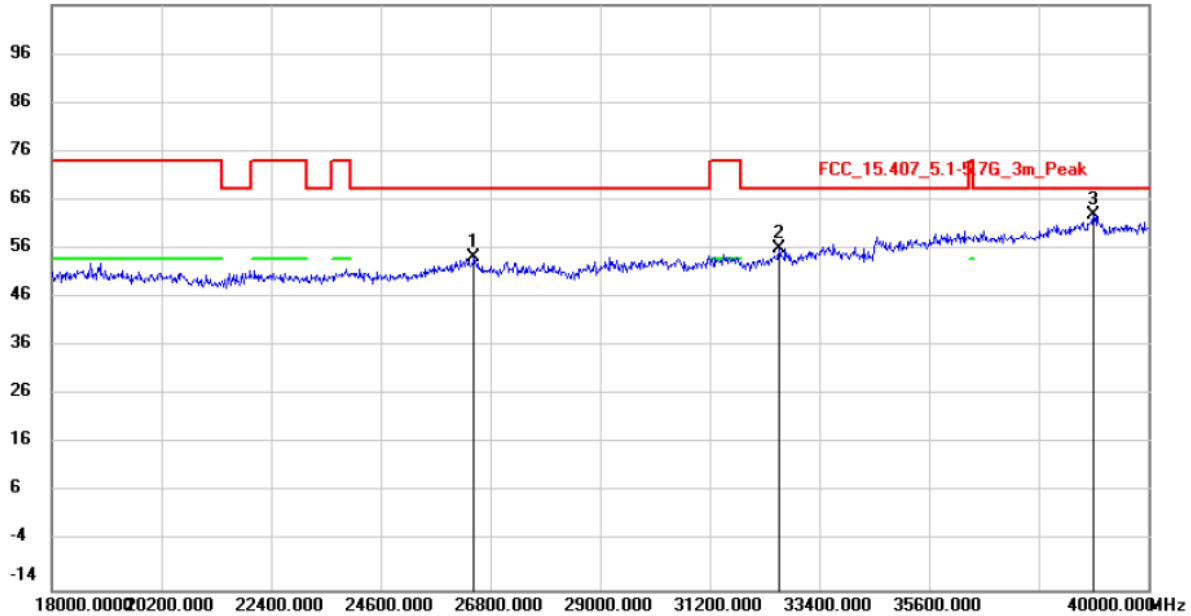
Radiated Emission Measurement

Date: 2025/12/27

Time: 10:19:44

106.0 dBuV/m

FCC_15.407_5.1-5.7G_3m_AVG



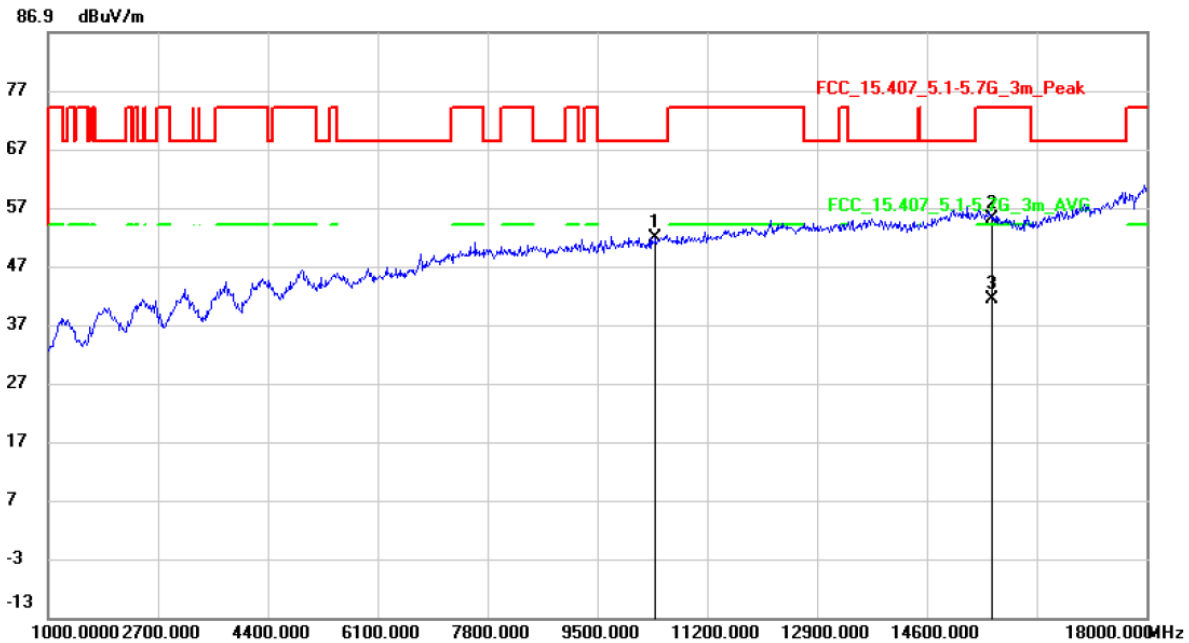
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		26470.000	46.95	7.20	54.15	68.20	-14.05	peak	
2		32586.000	46.37	9.64	56.01	68.20	-12.19	peak	
3	*	38900.000	50.27	12.68	62.95	68.20	-5.25	peak	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11a / Middle Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 20:18:28



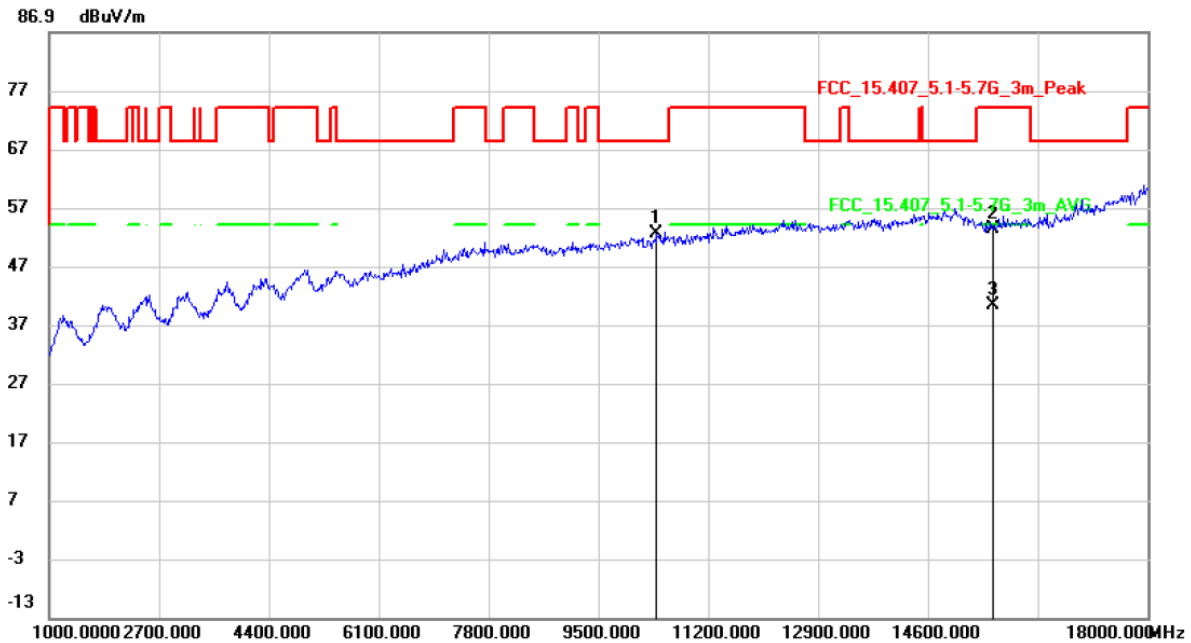
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		10400.000	39.94	11.80	51.74	68.20	-16.46	peak	
2		15600.000	39.89	15.19	55.08	74.00	-18.92	peak	
3	*	15600.000	26.10	15.19	41.29	54.00	-12.71	AVG	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11a / Middle Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 20:11:09



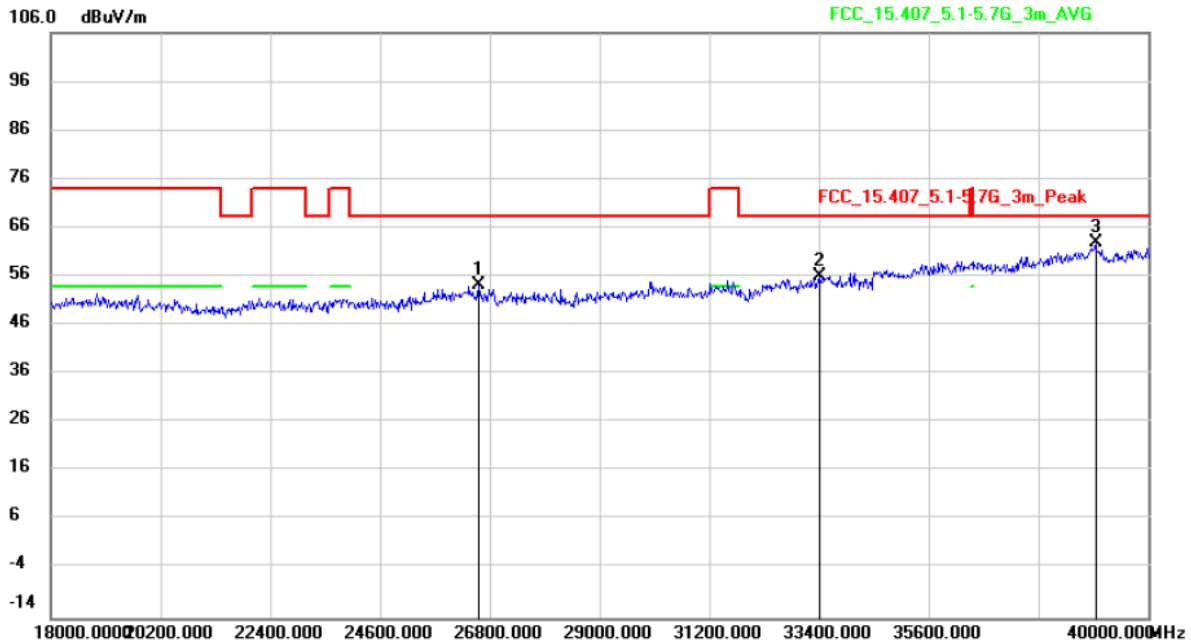
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.000	40.79	11.80	52.59	68.20	-15.61	peak	
2		15600.000	39.92	13.43	53.35	74.00	-20.65	peak	
3	*	15600.000	26.80	13.43	40.23	54.00	-13.77	AVG	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11a / Middle Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2025/12/27

Time: 10:33:36



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		26580.000	47.18	7.20	54.38	68.20	-13.82	peak
2		33422.000	45.98	10.14	56.12	68.20	-12.08	peak
3	*	38944.000	50.39	12.59	62.98	68.20	-5.22	peak

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11a / Middle Channel / U-NII-1	Distance: 3m

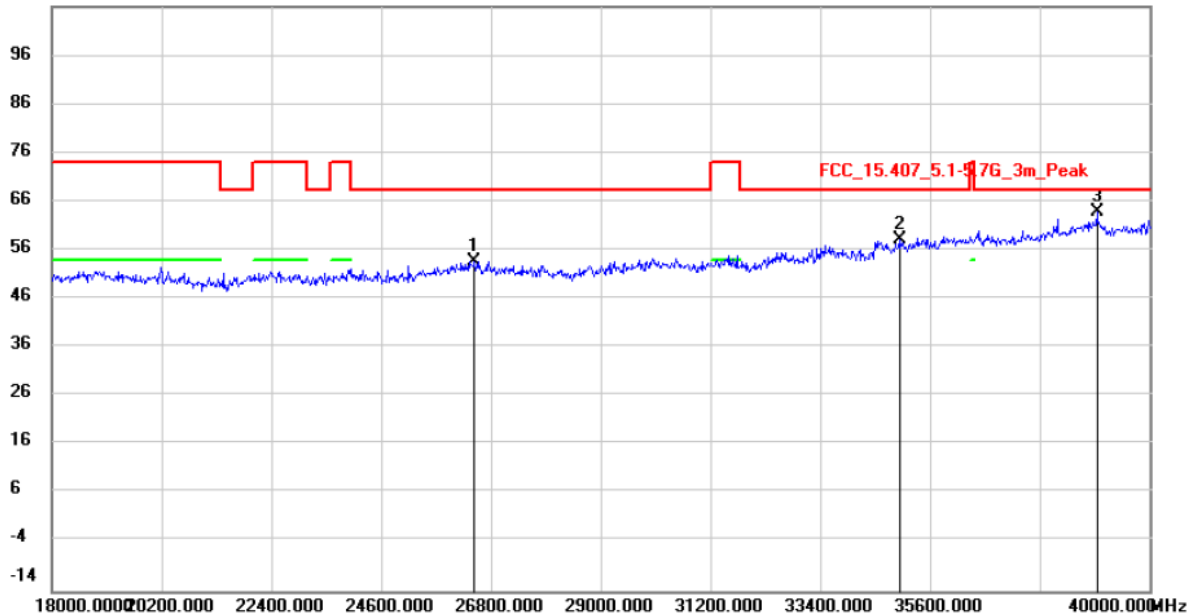
Radiated Emission Measurement

Date: 2025/12/27

Time: 10:26:50

106.0 dBuV/m

FCC_15.407_5.1-5.76_3m_AVG



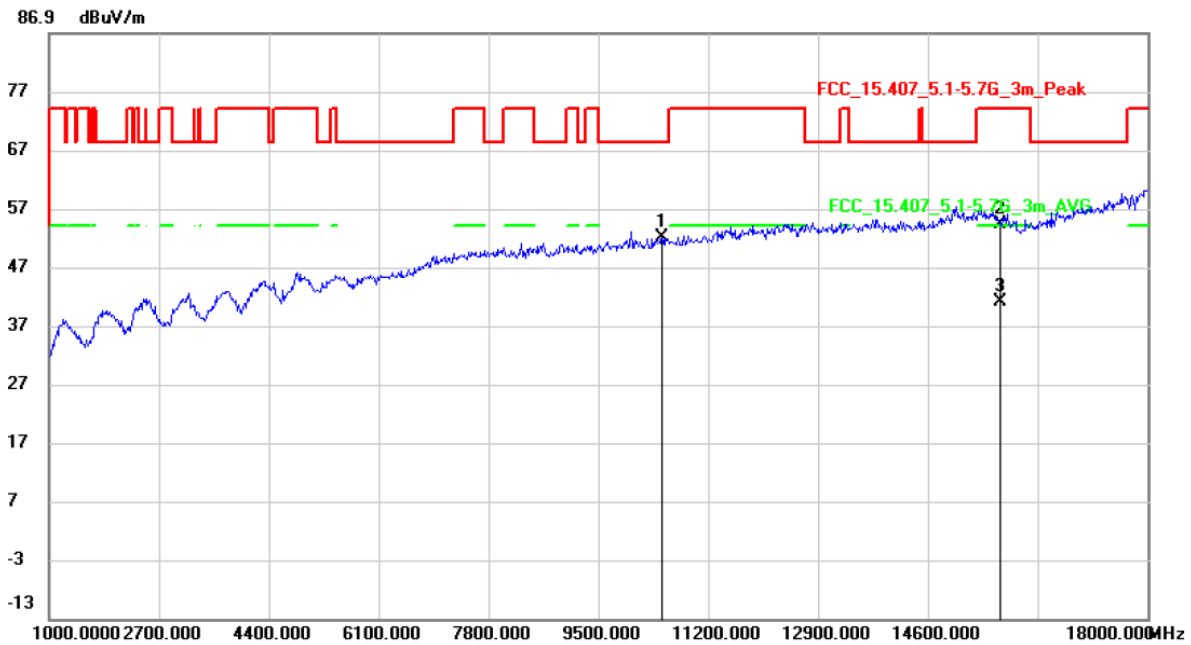
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		26470.000	46.57	7.20	53.77	68.20	-14.43	peak	
2		34984.000	48.49	9.72	58.21	68.20	-9.99	peak	
3	*	38944.000	51.20	12.59	63.79	68.20	-4.41	peak	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11a / High Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 20:25:49



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.000	39.96	12.00	51.96	68.20	-16.24	peak	
2		15720.000	39.67	14.63	54.30	74.00	-19.70	peak	
3	*	15720.000	26.45	14.63	41.08	54.00	-12.92	AVG	

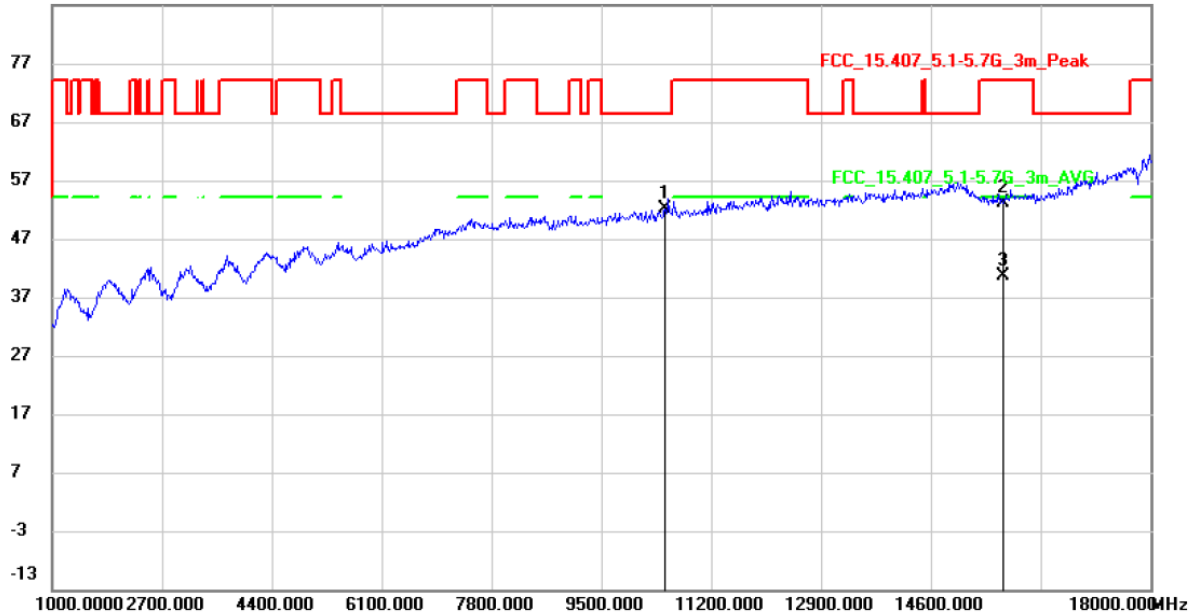
M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11a / High Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/10

Time: 20:32:10

86.9 dBuV/m



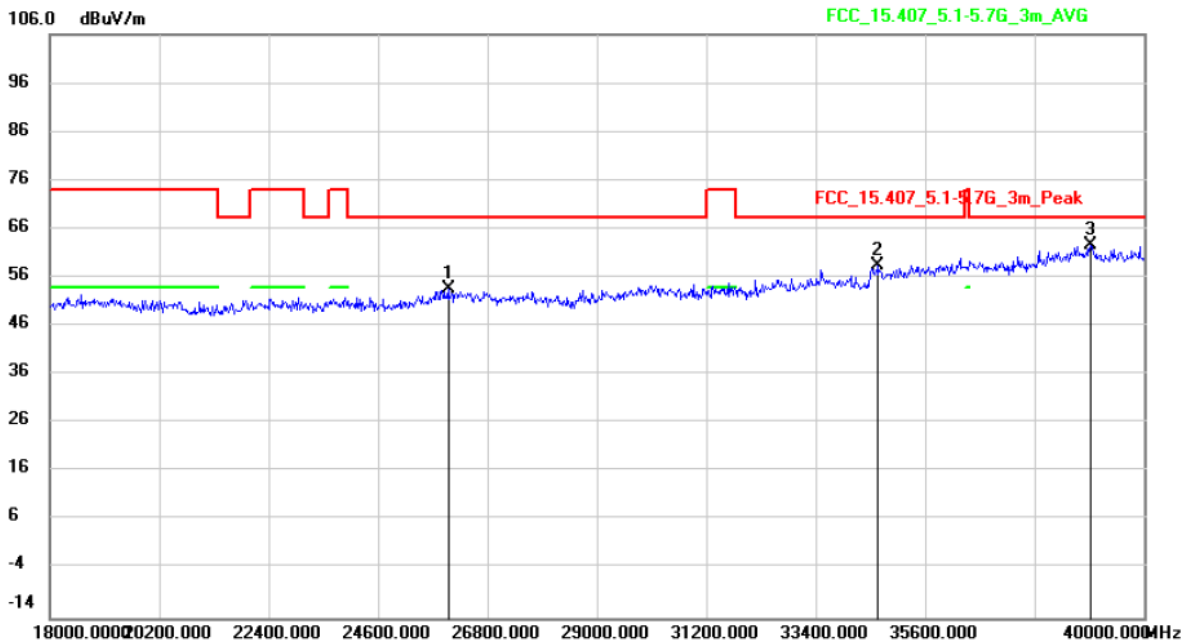
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.000	40.09	12.00	52.09	68.20	-16.11	peak	
2		15720.000	39.42	13.59	53.01	74.00	-20.99	peak	
3	*	15720.000	26.96	13.59	40.55	54.00	-13.45	AVG	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: IEEE 802.11a / High Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2025/12/27

Time: 10:40:42



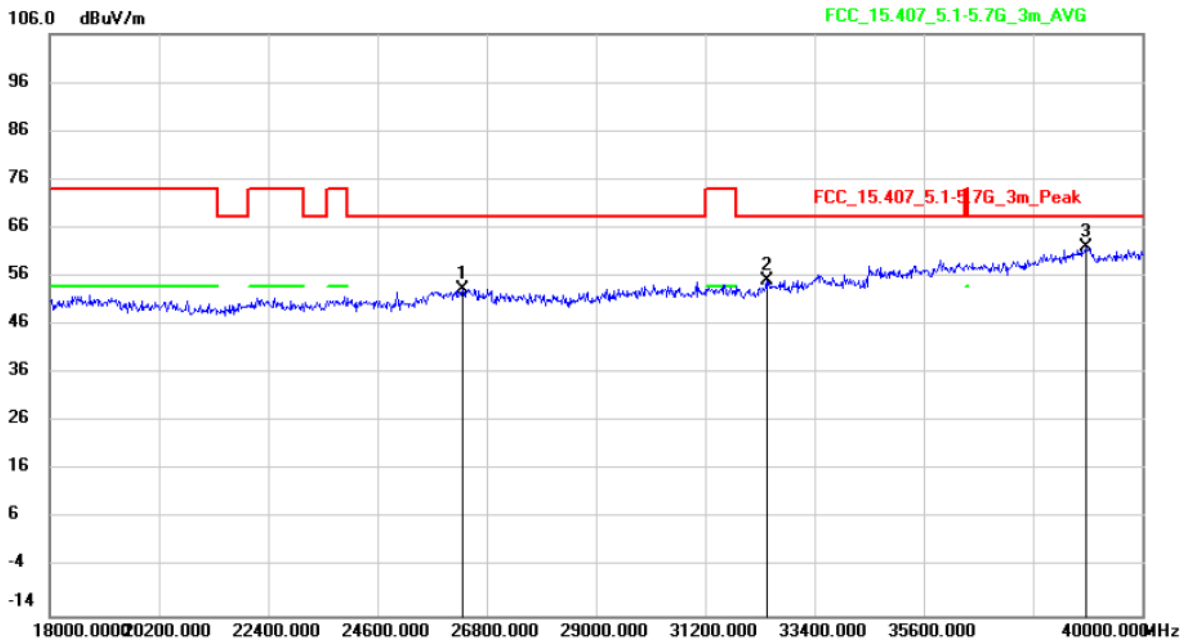
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		26008.000	46.55	7.03	53.58	68.20	-14.62	peak
2		34654.000	48.64	9.75	58.39	68.20	-9.81	peak
3	*	38922.000	50.05	12.64	62.69	68.20	-5.51	peak

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: IEEE 802.11a / High Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2025/12/27

Time: 10:47:55



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		26316.000	46.28	7.15	53.43	68.20	-14.77	peak
2		32432.000	45.66	9.52	55.18	68.20	-13.02	peak
3	*	38856.000	49.33	12.78	62.11	68.20	-6.09	peak

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Horizontal	Detector: Peak
Test Mode: Band Edge IEEE 802.11a / Low Channel / U-NII-1	Distance: 3m

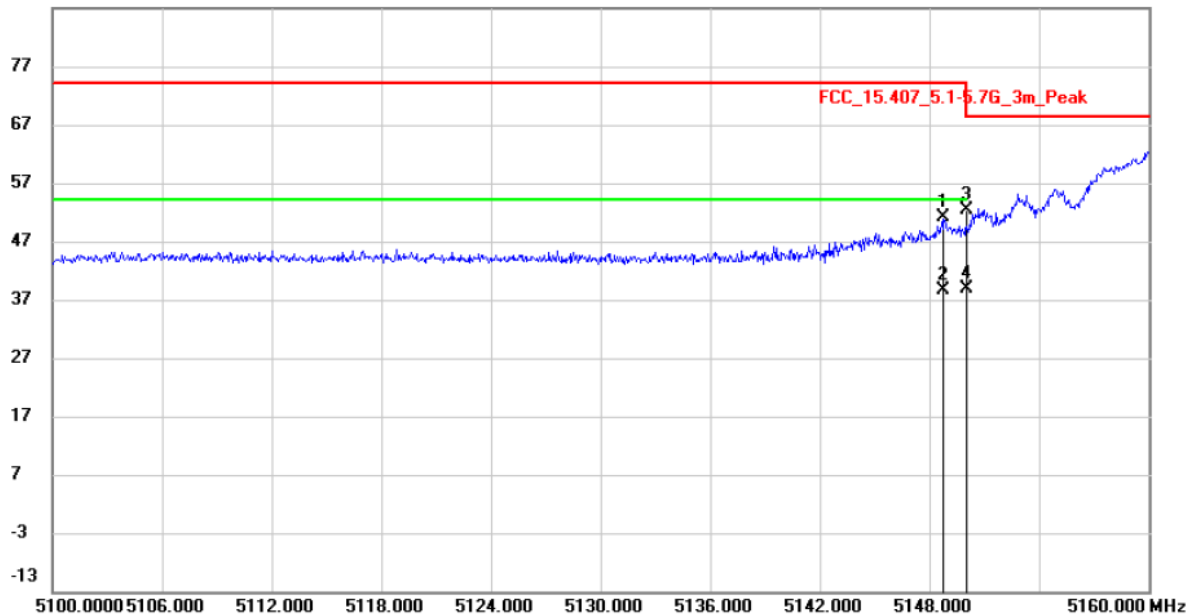
Radiated Emission Measurement

Date: 2026/4/18

Time: 9:29:20

86.9 dBuV/m

FCC_15.407_5.1-5.76_3m_AVG



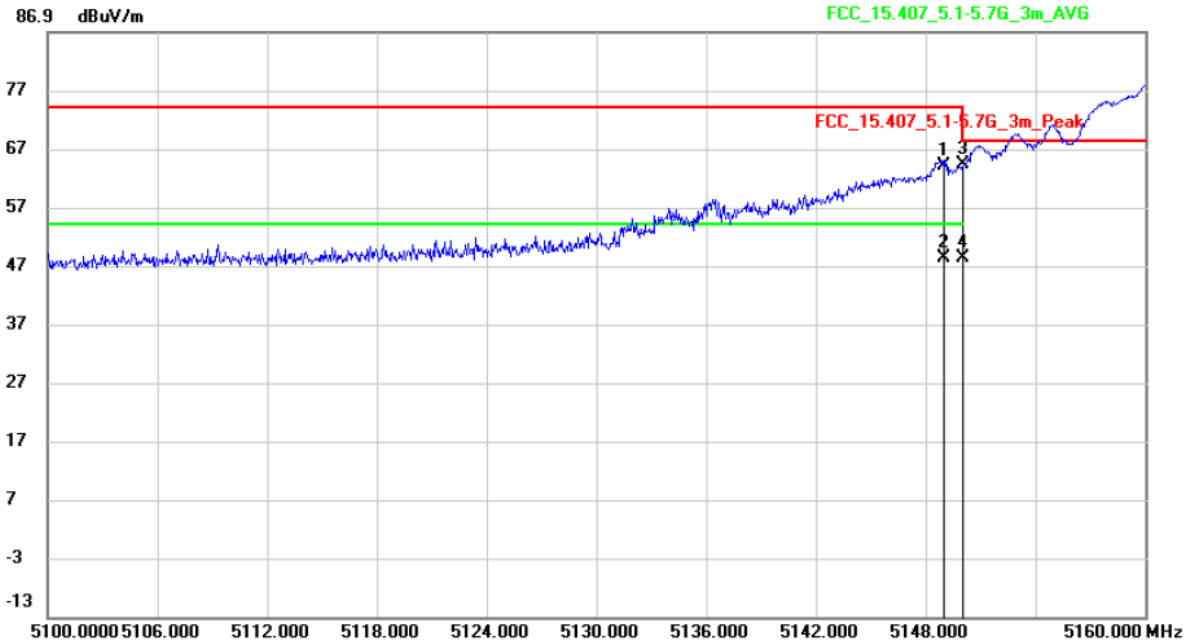
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		5148.780	46.54	4.53	51.07	74.00	-22.93	peak
2		5148.780	33.99	4.53	38.52	54.00	-15.48	AVG
3		5150.000	47.83	4.53	52.36	68.20	-15.84	peak
4	*	5150.000	34.28	4.53	38.81	54.00	-15.19	AVG

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Polarization: Vertical	Detector: Peak
Test Mode: Band Edge IEEE 802.11a / Low Channel / U-NII-1	Distance: 3m

Radiated Emission Measurement

Date: 2026/4/18

Time: 9:37:46



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.960	59.60	4.53	64.13	74.00	-9.87	peak	
2		5148.960	43.73	4.53	48.26	54.00	-5.74	AVG	
3	*	5150.000	59.86	4.53	64.39	68.20	-3.81	peak	
4		5150.000	43.87	4.53	48.40	54.00	-5.60	AVG	