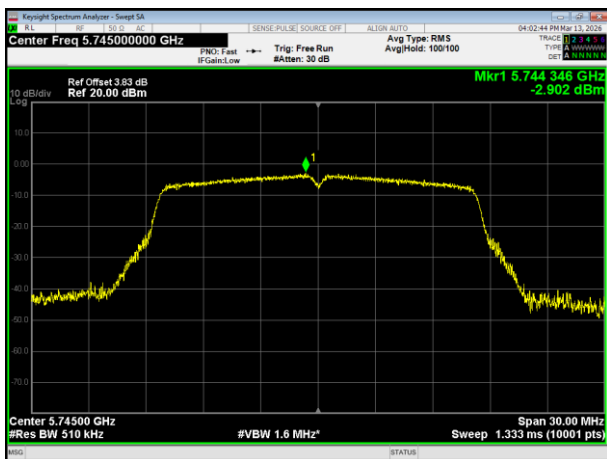
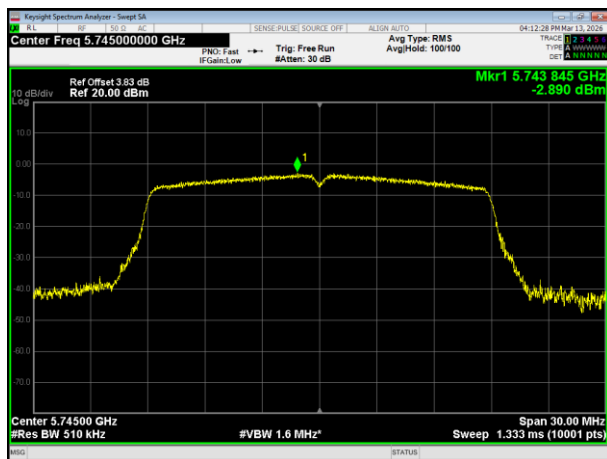


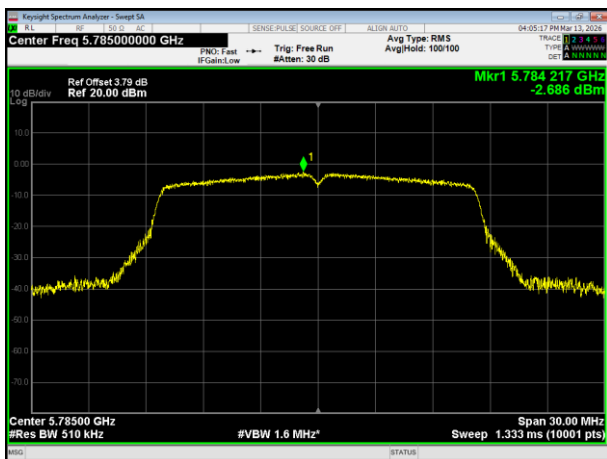
(802.11a) PSD plot on channel 149



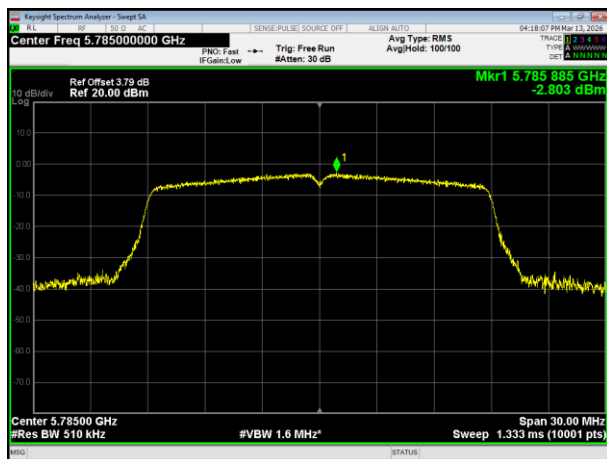
(802.11n20) PSD plot on channel 149



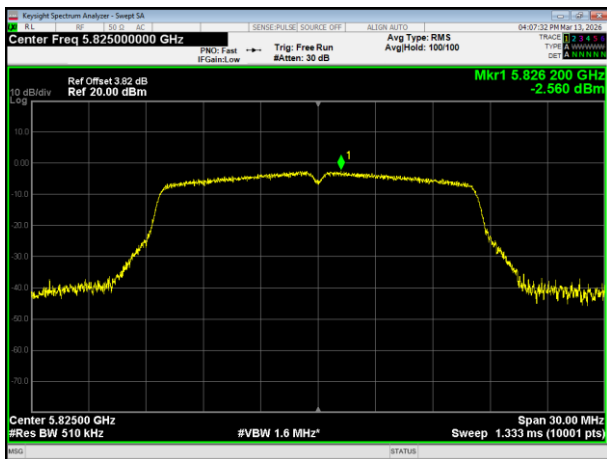
(802.11a) PSD plot on channel 157



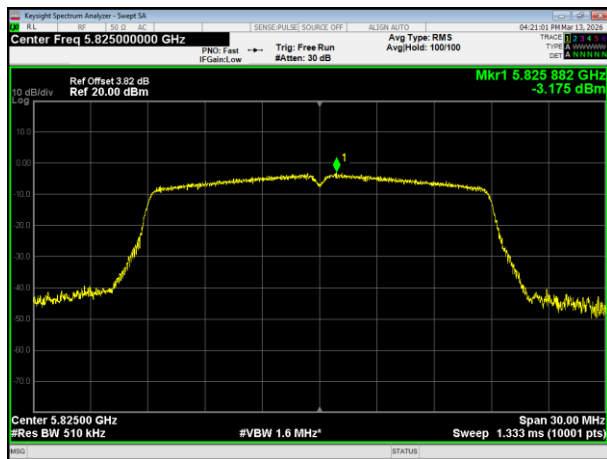
(802.11n20) PSD plot on channel 157



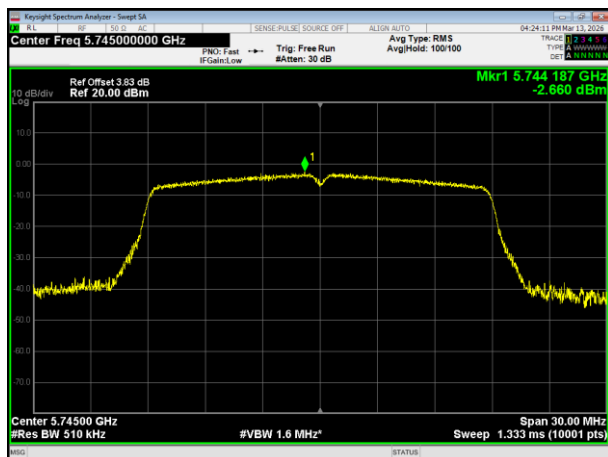
(802.11a) PSD plot on channel 165



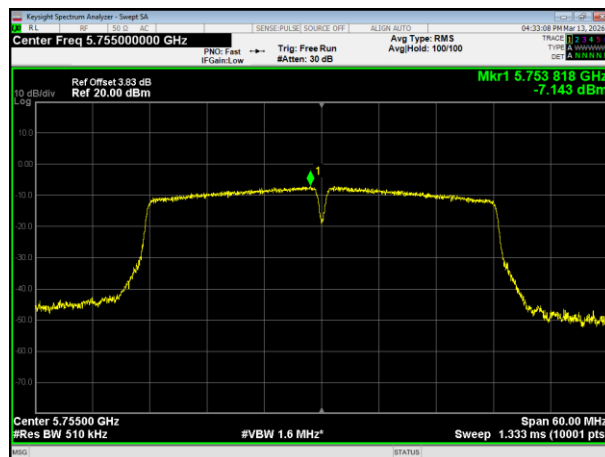
(802.11n20) PSD plot on channel 165



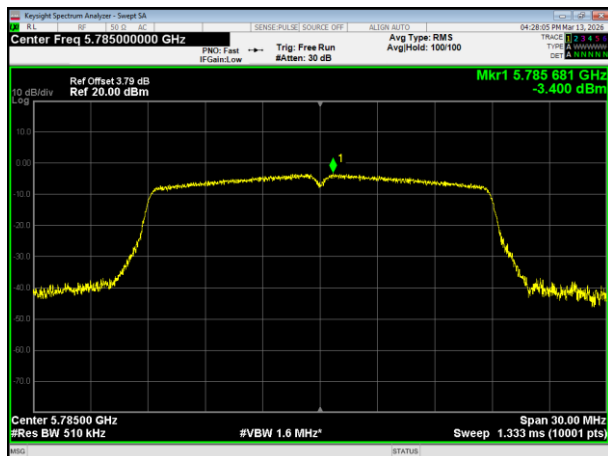
(802.11ac20) PSD plot on channel 149



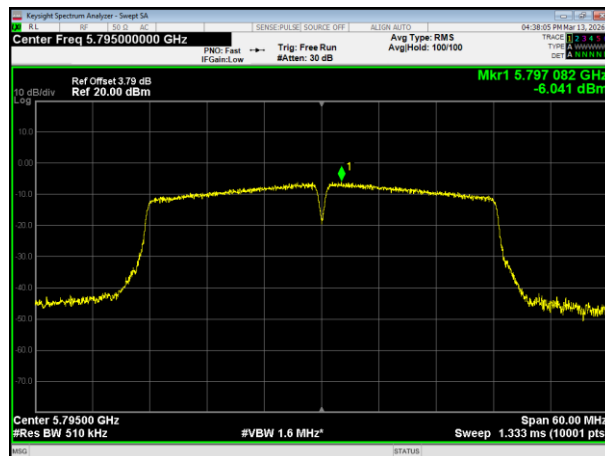
(802.11n40) PSD plot on channel 151



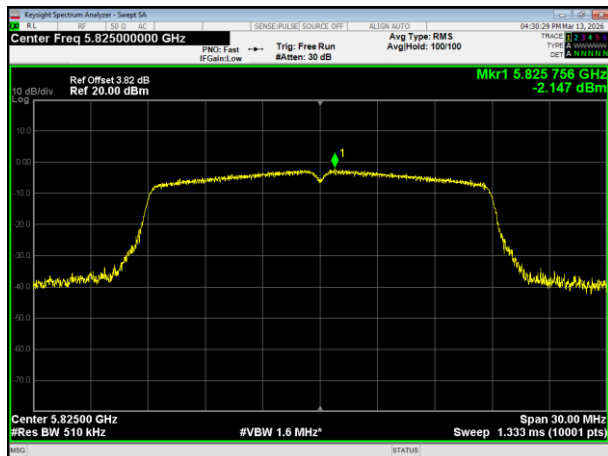
(802.11ac20) PSD plot on channel 157



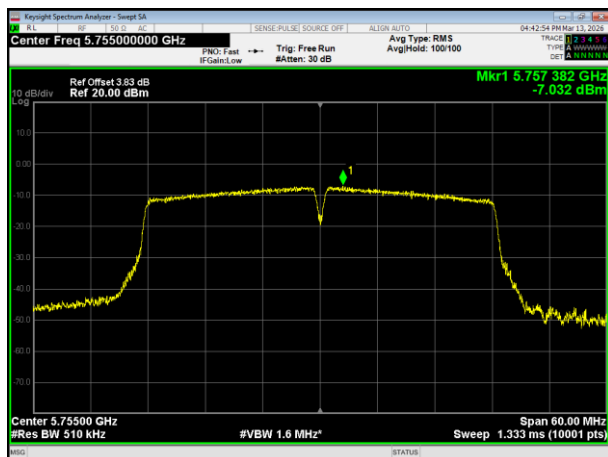
(802.11n40) PSD plot on channel 159



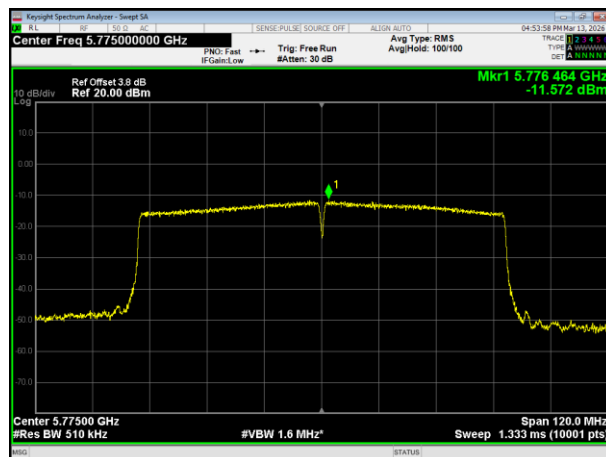
(802.11ac20) PSD plot on channel 165



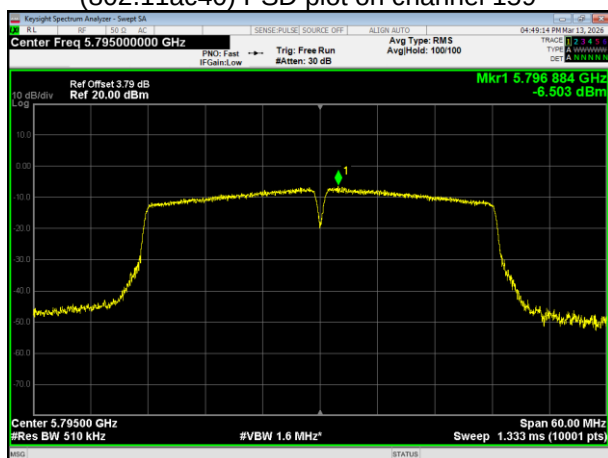
(802.11ac40) PSD plot on channel 151



(802.11ac80) PSD plot on channel 155

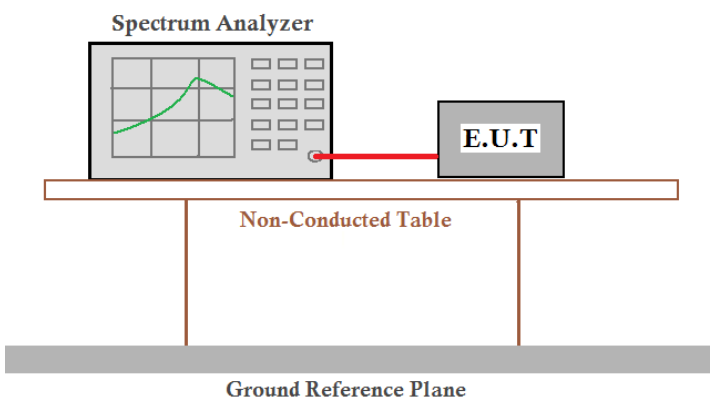


(802.11ac40) PSD plot on channel 159



4.7 Band edge

4.7.1 Conducted test Method

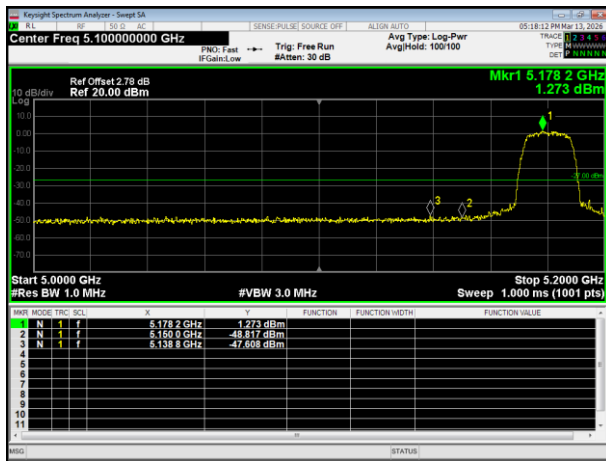
Test Requirement:	47CFR Part 15.209 and 15.205	
Test Method:	ANSI C63.10-2020+COR 1-2023 § 6.10	
Limit:	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above 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 27 dBm/MHz at the band edge.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.	
Test Procedure:	1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. 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. 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span. 4. 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. 5. Repeat above procedures until all measured frequencies were complete..	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.3°C	Humid.: 60%RH
Test voltage:	AC 120V 60Hz	
Test results:	Pass	

Band Edge

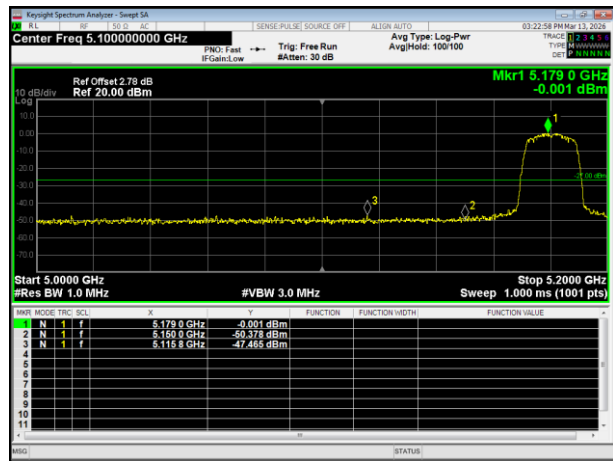
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Antenna(dBi)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-47.6	5.36	-42.24	-27	Pass
NVNT	a	5240	Ant1	-47.44	5.36	-42.08	-27	Pass
NVNT	n20	5180	Ant1	-47.46	5.36	-42.10	-27	Pass
NVNT	n20	5240	Ant1	-46.76	5.36	-41.40	-27	Pass
NVNT	n40	5190	Ant1	-43.7	5.36	-38.34	-27	Pass
NVNT	n40	5230	Ant1	-47.13	5.36	-41.77	-27	Pass
NVNT	ac20	5180	Ant1	-45.82	5.36	-40.46	-27	Pass
NVNT	ac20	5240	Ant1	-46.47	5.36	-41.11	-27	Pass
NVNT	ac40	5190	Ant1	-40.42	5.36	-35.06	-27	Pass
NVNT	ac40	5230	Ant1	-48.05	5.36	-42.69	-27	Pass
NVNT	ac80	5210	Ant1	-42.42	5.36	-37.06	-27	Pass

5.180~5.240 GHz

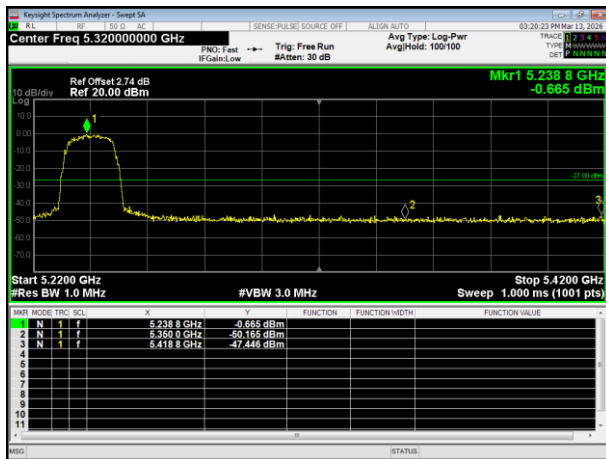
(802.11a) Band Edge, Left Side



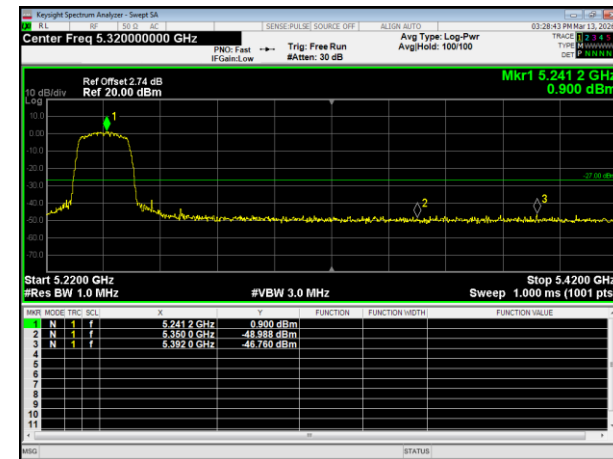
(802.11n20) Band Edge, Left Side



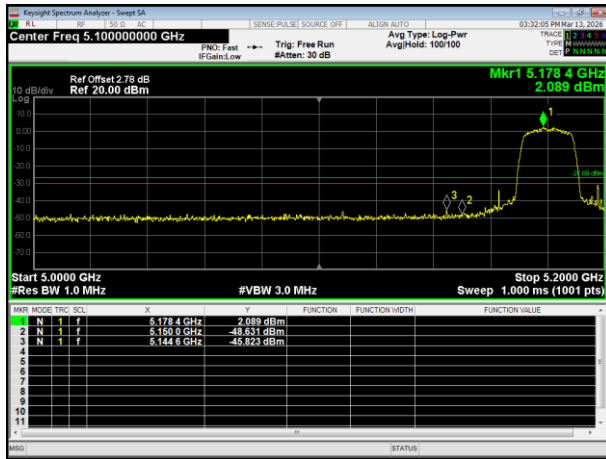
(802.11a) Band Edge, Right Side



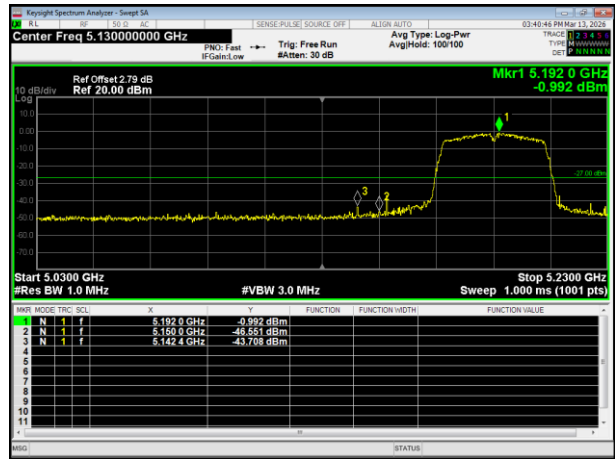
(802.11n20) Band Edge, Right Side



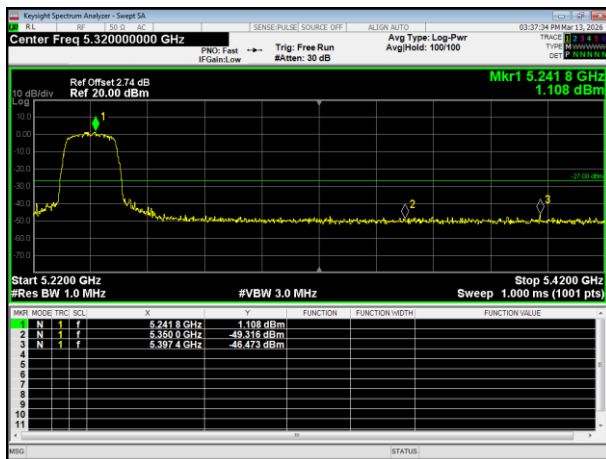
(802.11ac20) Band Edge, Left Side



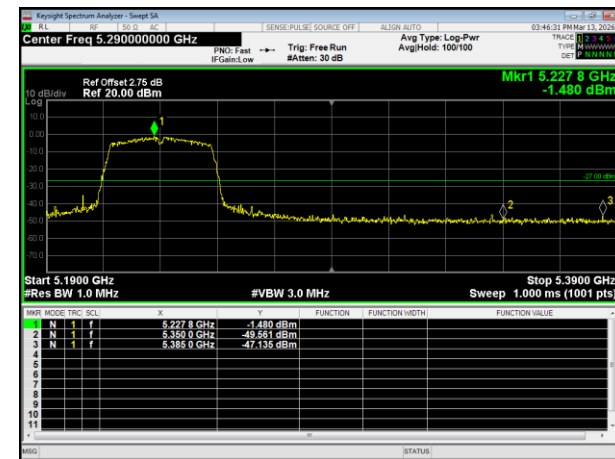
(802.11n40) Band Edge, Left Side



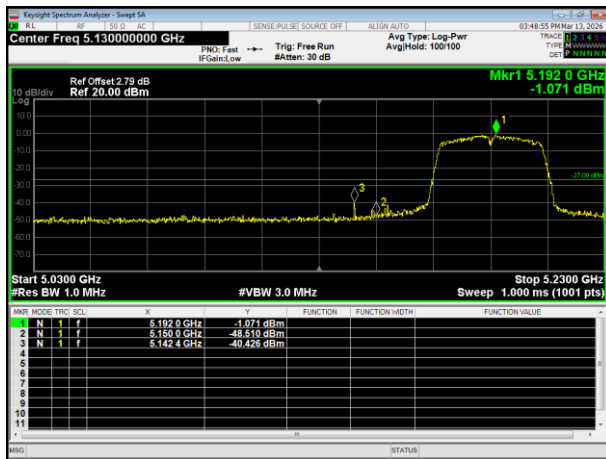
(802.11ac20) Band Edge, Right Side



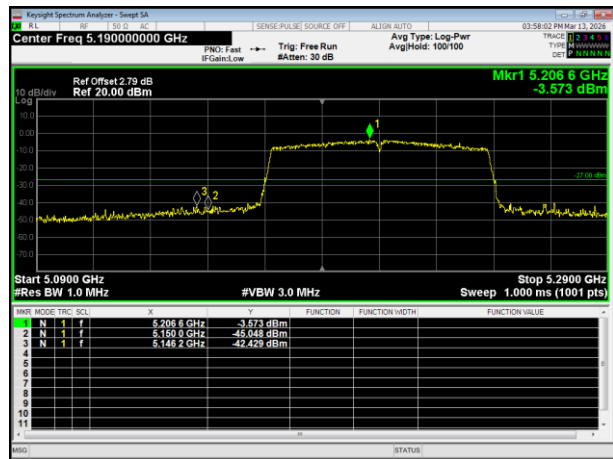
(802.11n40) Band Edge, Right Side



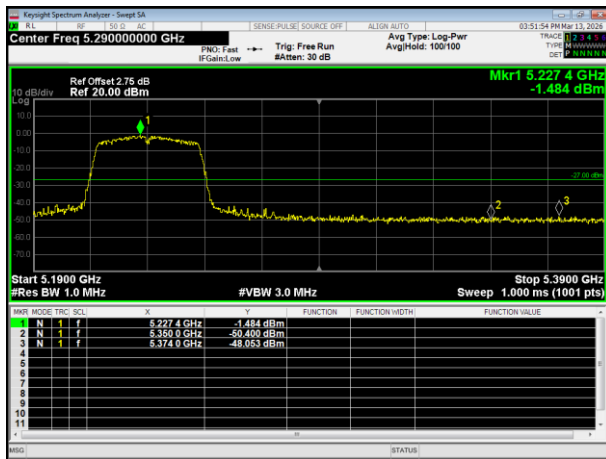
(802.11ac40) Band Edge, Left Side



(802.11ac80) Band Edge



(802.11ac40) Band Edge, Right Side



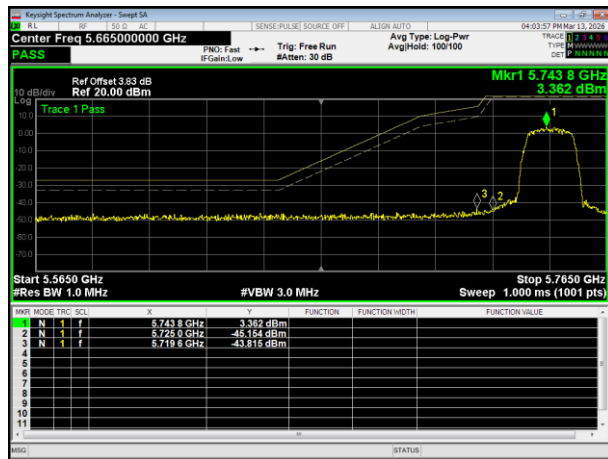
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Antenna (dBi)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-43.81	5.36	-38.45	-27	Pass
NVNT	a	5825	Ant1	-44.39	5.36	-39.03	-27	Pass
NVNT	n20	5745	Ant1	-43.22	5.36	-37.86	-27	Pass
NVNT	n20	5825	Ant1	-41.26	5.36	-35.9	-27	Pass
NVNT	n40	5755	Ant1	-39.84	5.36	-34.48	-27	Pass
NVNT	n40	5795	Ant1	-44.49	5.36	-39.13	-27	Pass
NVNT	ac20	5745	Ant1	-41.79	5.36	-36.43	-27	Pass
NVNT	ac20	5825	Ant1	-46.02	5.36	-40.66	-27	Pass
NVNT	ac40	5755	Ant1	-40.02	5.36	-34.66	-27	Pass
NVNT	ac40	5795	Ant1	-44.92	5.36	-39.56	-27	Pass
NVNT	ac80	5775	Ant1	-32.55	5.36	-27.19	-27	Pass

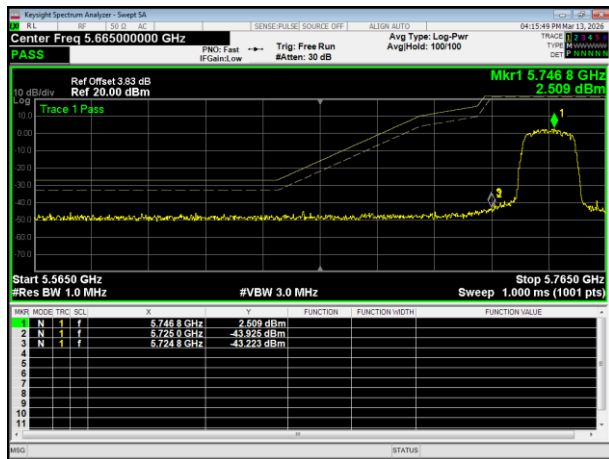
Note: The calculated value of Max Value+Antenna meets the requirement of meeting the minimum limit of -27dBm/MHz, while also meeting the requirements of other limits

5.745~5.825 GHz

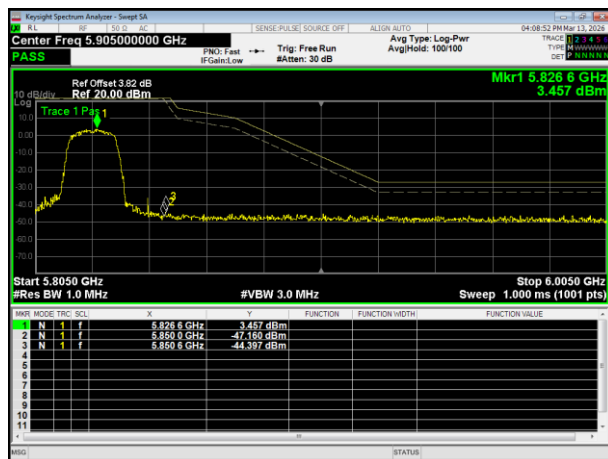
(802.11a) Band Edge, Left Side



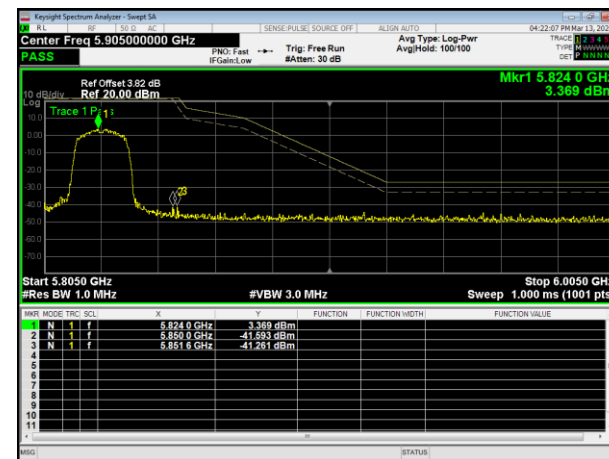
(802.11n20) Band Edge, Left Side



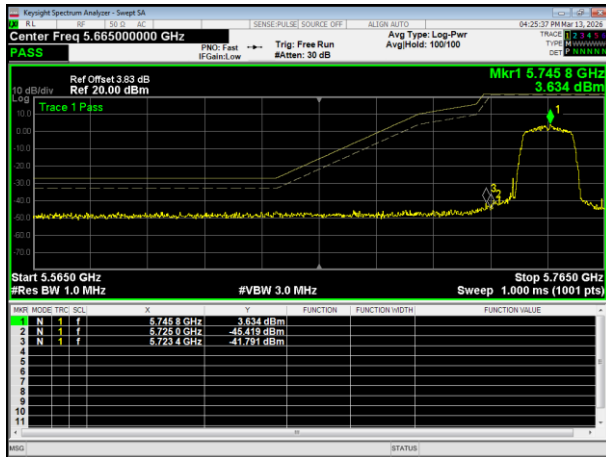
(802.11a) Band Edge, Right Side



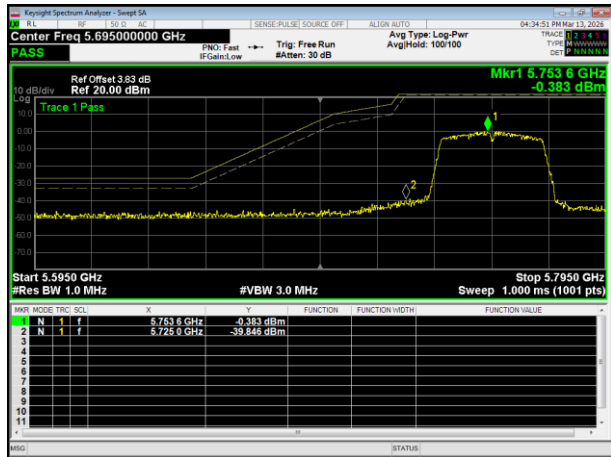
(802.11n20) Band Edge, Right Side



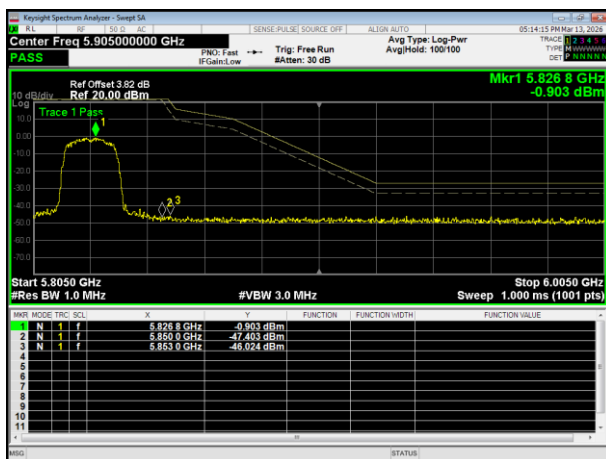
(802.11ac20) Band Edge, Left Side



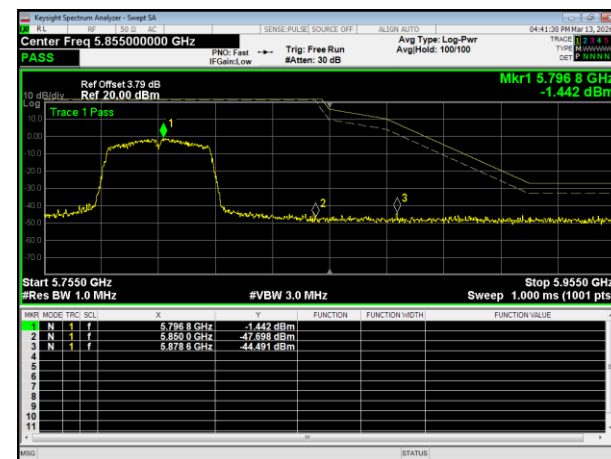
(802.11n40) Band Edge, Left Side



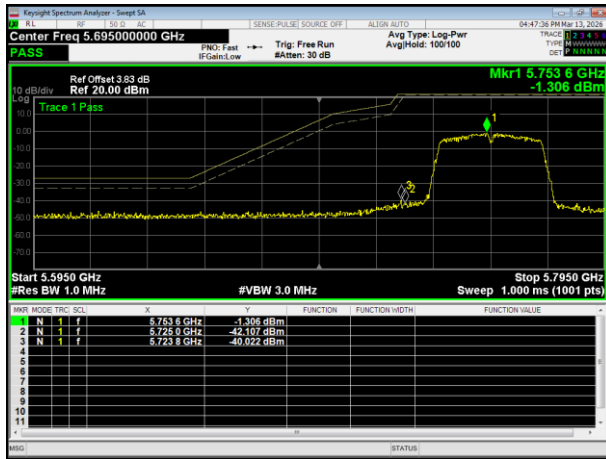
(802.11ac20) Band Edge, Right Side



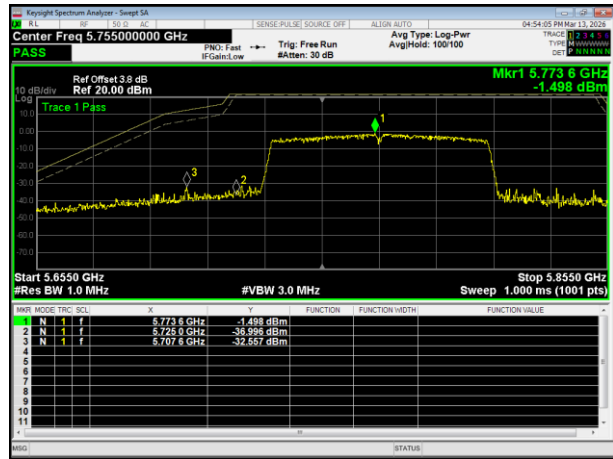
(802.11n40) Band Edge, Right Side



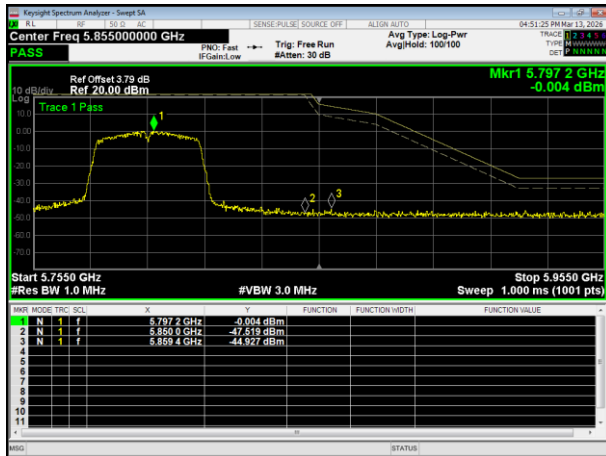
(802.11ac40) Band Edge, Left Side



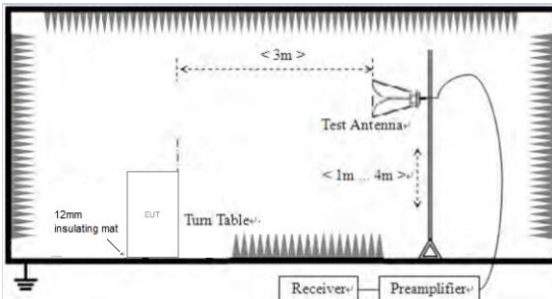
(802.11ac80) Band Edge



(802.11ac40) Band Edge, Right Side



4.7.2 Radiated test Method

Test Requirement:	47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+COR 1-2023 § 6.10				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			68.2		Peak Value
Undesirable emission limits:					
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.					
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.					
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.					
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 25 MHz 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 27 dBm/MHz at the band edge.					
Test setup:	Above 1GHz				
					

Test Procedure:	a. 1. Place the EUT on a 12mm insulation pad at the top of the rotating table above the ground. Rotate the table 360 degrees to determine the position of the highest radiation. For the Above 1GHz test, the EUT transmitting antenna is located at 1.5m. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 23.3°C	Humid.: 60%RH
Test voltage:	AC 120V 60Hz	
Test results:	Pass	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Two antennas are tested, only the worst case's (Main Antenna) data was showed.

4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

5. According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

$$E[dBuV/m] = EIRP[dBm] + 95.2;$$

For example, if EIRP = -27dBm

$$E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$$

$$E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.$$

$$E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.$$

$$E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m$$

IEEE 802.11a Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	50.68	-7.53	43.15	74.00	-30.85	Horizontal	PK
5150	49.95	-7.53	42.42	74.00	-31.58	Vertical	PK
5150	40.55	-7.53	33.02	54.00	-20.99	Horizontal	AV
5150	39.96	-7.53	32.43	54.00	-21.57	Vertical	AV

IEEE 802.11a Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	46.04	-7.06	38.98	74.00	-35.02	Horizontal	PK
5350	51.46	-7.06	44.40	74.00	-29.60	Vertical	PK
5350	36.84	-7.06	29.78	54.00	-24.23	Horizontal	AV
5350	41.17	-7.06	34.11	54.00	-19.89	Vertical	AV

IEEE 802.11n20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	49.67	-7.53	42.14	74.00	-31.86	Horizontal	PK
5150	48.96	-7.53	41.43	74.00	-32.57	Vertical	PK
5150	39.74	-7.53	32.21	54.00	-21.79	Horizontal	AV
5150	39.17	-7.53	31.64	54.00	-22.36	Vertical	AV

IEEE 802.11n20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	45.12	-7.06	38.06	74.00	-35.94	Horizontal	PK
5350	50.43	-7.06	43.37	74.00	-30.63	Vertical	PK
5350	36.10	-7.06	29.04	54.00	-24.96	Horizontal	AV
5350	40.35	-7.06	33.29	54.00	-20.71	Vertical	AV

IEEE 802.11ac20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	52.21	-7.53	44.68	74.00	-29.33	Horizontal	PK
5150	51.45	-7.53	43.92	74.00	-30.08	Vertical	PK
5150	41.75	-7.53	34.22	54.00	-19.78	Horizontal	AV
5150	41.17	-7.53	33.64	54.00	-20.36	Vertical	AV

IEEE 802.11ac20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	47.42	-7.06	40.36	74.00	-33.64	Horizontal	PK
5350	53.01	-7.06	45.95	74.00	-28.05	Vertical	PK
5350	37.94	-7.06	30.88	54.00	-23.12	Horizontal	AV
5350	42.40	-7.06	35.34	54.00	-18.66	Vertical	AV

IEEE 802.11n40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	51.19	-7.53	43.66	74.00	-30.34	Horizontal	PK
5150	50.46	-7.53	42.93	74.00	-31.07	Vertical	PK
5150	40.95	-7.53	33.42	54.00	-20.58	Horizontal	AV
5150	40.38	-7.53	32.85	54.00	-21.15	Vertical	AV

IEEE 802.11n40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	46.50	-7.06	39.44	74.00	-34.56	Horizontal	PK
5350	51.97	-7.06	44.91	74.00	-29.09	Vertical	PK
5350	37.21	-7.06	30.15	54.00	-23.85	Horizontal	AV
5350	41.58	-7.06	34.52	54.00	-19.48	Vertical	AV

IEEE 802.11ac40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	53.71	-7.53	46.18	74.00	-27.82	Horizontal	PK
5150	52.96	-7.53	45.43	74.00	-28.57	Vertical	PK
5150	42.96	-7.53	35.43	54.00	-18.57	Horizontal	AV
5150	42.36	-7.53	34.83	54.00	-19.17	Vertical	AV

IEEE 802.11ac40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	48.80	-7.06	41.74	74.00	-32.26	Horizontal	PK
5350	54.56	-7.06	47.50	74.00	-26.50	Vertical	PK
5350	39.04	-7.06	31.98	54.00	-22.02	Horizontal	AV
5350	43.65	-7.06	36.59	54.00	-17.41	Vertical	AV

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	53.20	-7.53	45.67	74.00	-28.33	Horizontal	PK
5150	52.46	-7.53	44.93	74.00	-29.07	Vertical	PK
5150	42.57	-7.53	35.04	54.00	-18.96	Horizontal	AV
5150	41.97	-7.53	34.44	54.00	-19.56	Vertical	AV

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	48.34	-7.06	41.28	74.00	-32.72	Horizontal	PK
5350	54.04	-7.06	46.98	74.00	-27.02	Vertical	PK
5350	38.68	-7.06	31.62	54.00	-22.38	Horizontal	AV
5350	43.23	-7.06	36.17	54.00	-17.83	Vertical	AV

Measurement data:

IEEE 802.11a							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	50.29	-6.34	43.95	68.20	-24.25	Horizontal	PK
5650	37.32	-6.34	30.98	54.00	-23.02	Horizontal	AV
5700	47.65	-6.22	41.43	105.20	-63.77	Horizontal	PK
5700	35.88	-6.22	29.66	54.00	-24.34	Horizontal	AV
5720	51.04	-6.17	44.87	110.80	-65.93	Horizontal	PK
5720	39.20	-6.17	33.03	54.00	-20.97	Horizontal	AV
5725	52.57	-6.16	46.41	122.20	-75.79	Horizontal	PK
5725	40.40	-6.16	34.24	54.00	-19.76	Horizontal	AV
5650	52.99	-6.34	46.65	68.20	-21.55	Vertical	PK
5650	40.43	-6.34	34.09	54.00	-19.91	Vertical	AV
5700	57.29	-6.22	51.07	105.20	-54.13	Vertical	PK
5700	45.07	-6.22	38.85	54.00	-15.15	Vertical	AV
5720	53.95	-6.17	47.78	110.80	-63.02	Vertical	PK
5720	46.24	-6.17	40.07	54.00	-13.93	Vertical	AV
5725	51.40	-6.16	45.24	122.20	-76.96	Vertical	PK
5725	40.94	-6.16	34.78	54.00	-19.22	Vertical	AV

IEEE 802.11a							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	60.07	-5.87	54.20	122.20	-68.00	Vertical	PK
5850	45.19	-5.87	39.32	54.00	-14.68	Vertical	AV
5855	56.36	-5.85	50.51	110.80	-60.29	Vertical	PK
5855	46.24	-5.85	40.39	54.00	-13.61	Vertical	AV
5875	50.83	-5.80	45.03	105.20	-60.17	Vertical	PK
5875	37.96	-5.80	32.16	54.00	-21.84	Vertical	AV
5925	49.99	-5.68	44.31	68.20	-23.89	Vertical	PK
5925	39.21	-5.68	33.53	54.00	-20.47	Vertical	AV
5850	47.50	-5.87	41.63	122.20	-80.57	Horizontal	PK
5850	35.57	-5.87	29.70	54.00	-24.30	Horizontal	AV
5855	45.73	-5.85	39.88	110.80	-70.92	Horizontal	PK
5855	36.15	-5.85	30.30	54.00	-23.70	Horizontal	AV
5875	50.82	-5.80	45.02	105.20	-60.18	Horizontal	PK
5875	38.71	-5.80	32.91	54.00	-21.09	Horizontal	AV
5925	60.11	-5.68	54.43	68.20	-13.77	Horizontal	PK
5925	42.52	-5.68	36.84	54.00	-17.16	Horizontal	AV

IEEE 802.11n20							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	51.29	-6.34	44.95	68.20	-23.25	Horizontal	PK
5650	38.06	-6.34	31.72	54.00	-22.28	Horizontal	AV
5700	48.60	-6.22	42.38	105.20	-62.82	Horizontal	PK
5700	36.60	-6.22	30.38	54.00	-23.62	Horizontal	AV
5720	52.06	-6.17	45.89	110.80	-64.91	Horizontal	PK
5720	39.98	-6.17	33.81	54.00	-20.19	Horizontal	AV
5725	53.61	-6.16	47.45	122.20	-74.75	Horizontal	PK
5725	41.20	-6.16	35.04	54.00	-18.96	Horizontal	AV
5650	54.05	-6.34	47.71	68.20	-20.49	Vertical	PK
5650	41.23	-6.34	34.89	54.00	-19.11	Vertical	AV
5700	58.44	-6.22	52.22	105.20	-52.98	Vertical	PK
5700	45.97	-6.22	39.75	54.00	-14.25	Vertical	AV
5720	55.04	-6.17	48.87	110.80	-61.93	Vertical	PK
5720	47.16	-6.17	40.99	54.00	-13.01	Vertical	AV
5725	52.43	-6.16	46.27	122.20	-75.93	Vertical	PK
5725	41.75	-6.16	35.59	54.00	-18.41	Vertical	AV

IEEE 802.11n20							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	61.27	-5.87	55.40	122.20	-66.80	Vertical	PK
5850	46.09	-5.87	40.22	54.00	-13.78	Vertical	AV
5855	57.48	-5.85	51.63	110.80	-59.17	Vertical	PK
5855	47.16	-5.85	41.31	54.00	-12.69	Vertical	AV
5875	51.84	-5.80	46.04	105.20	-59.16	Vertical	PK
5875	38.72	-5.80	32.92	54.00	-21.08	Vertical	AV
5925	50.99	-5.68	45.31	68.20	-22.89	Vertical	PK
5925	39.99	-5.68	34.31	54.00	-19.69	Vertical	AV
5850	48.45	-5.87	42.58	122.20	-79.62	Horizontal	PK
5850	36.28	-5.87	30.41	54.00	-23.59	Horizontal	AV
5855	46.64	-5.85	40.79	110.80	-70.01	Horizontal	PK
5855	36.87	-5.85	31.02	54.00	-22.98	Horizontal	AV
5875	51.83	-5.80	46.03	105.20	-59.17	Horizontal	PK
5875	39.49	-5.80	33.69	54.00	-20.32	Horizontal	AV
5925	61.31	-5.68	55.63	68.20	-12.57	Horizontal	PK
5925	43.36	-5.68	37.68	54.00	-16.32	Horizontal	AV

IEEE 802.11ac20							
Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	47.77	-6.34	41.43	68.20	-26.77	Horizontal	PK
5650	35.46	-6.34	29.12	54.00	-24.88	Horizontal	AV
5700	45.26	-6.22	39.04	105.20	-66.16	Horizontal	PK
5700	34.09	-6.22	27.87	54.00	-26.13	Horizontal	AV
5720	48.48	-6.17	42.31	110.80	-68.49	Horizontal	PK
5720	37.24	-6.17	31.07	54.00	-22.93	Horizontal	AV
5725	49.94	-6.16	43.78	122.20	-78.42	Horizontal	PK
5725	38.37	-6.16	32.21	54.00	-21.79	Horizontal	AV
5650	50.34	-6.34	44.00	68.20	-24.20	Vertical	PK
5650	38.40	-6.34	32.06	54.00	-21.94	Vertical	AV
5700	54.43	-6.22	48.21	105.20	-56.99	Vertical	PK
5700	42.81	-6.22	36.59	54.00	-17.41	Vertical	AV
5720	51.26	-6.17	45.09	110.80	-65.71	Vertical	PK
5720	43.93	-6.17	37.76	54.00	-16.24	Vertical	AV
5725	48.83	-6.16	42.67	122.20	-79.53	Vertical	PK
5725	38.89	-6.16	32.73	54.00	-21.27	Vertical	AV

IEEE 802.11ac20							
Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	57.07	-5.87	51.20	122.20	-71.00	Vertical	PK
5850	42.93	-5.87	37.06	54.00	-16.94	Vertical	AV
5855	53.54	-5.85	47.69	110.80	-63.11	Vertical	PK
5855	43.93	-5.85	38.08	54.00	-15.92	Vertical	AV
5875	48.28	-5.80	42.48	105.20	-62.72	Vertical	PK
5875	36.06	-5.80	30.26	54.00	-23.74	Vertical	AV
5925	47.49	-5.68	41.81	68.20	-26.39	Vertical	PK
5925	37.25	-5.68	31.57	54.00	-22.43	Vertical	AV
5850	45.12	-5.87	39.25	122.20	-82.95	Horizontal	PK
5850	33.79	-5.87	27.92	54.00	-26.08	Horizontal	AV
5855	43.44	-5.85	37.59	110.80	-73.21	Horizontal	PK
5855	34.34	-5.85	28.49	54.00	-25.51	Horizontal	AV
5875	48.27	-5.80	42.47	105.20	-62.73	Horizontal	PK
5875	36.77	-5.80	30.97	54.00	-23.03	Horizontal	AV
5925	57.10	-5.68	51.42	68.20	-16.78	Horizontal	PK
5925	40.39	-5.68	34.71	54.00	-19.29	Horizontal	AV



IEEE 802.11n40							
Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	50.78	-6.34	44.44	68.20	-23.76	Horizontal	PK
5650	37.69	-6.34	31.35	54.00	-22.65	Horizontal	AV
5700	48.12	-6.22	41.90	105.20	-63.30	Horizontal	PK
5700	36.24	-6.22	30.02	54.00	-23.98	Horizontal	AV
5720	51.55	-6.17	45.38	110.80	-65.42	Horizontal	PK
5720	39.59	-6.17	33.42	54.00	-20.58	Horizontal	AV
5725	53.10	-6.16	46.94	122.20	-75.26	Horizontal	PK
5725	40.80	-6.16	34.64	54.00	-19.36	Horizontal	AV
5650	53.52	-6.34	47.18	68.20	-21.02	Vertical	PK
5650	40.83	-6.34	34.49	54.00	-19.51	Vertical	AV
5700	57.87	-6.22	51.65	105.20	-53.55	Vertical	PK
5700	45.53	-6.22	39.31	54.00	-14.69	Vertical	AV
5720	54.49	-6.17	48.32	110.80	-62.48	Vertical	PK
5720	46.70	-6.17	40.53	54.00	-13.47	Vertical	AV
5725	51.91	-6.16	45.75	122.20	-76.45	Vertical	PK
5725	41.35	-6.16	35.19	54.00	-18.81	Vertical	AV

IEEE 802.11n40							
Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	60.67	-5.87	54.80	122.20	-67.40	Vertical	PK
5850	45.64	-5.87	39.77	54.00	-14.23	Vertical	AV
5855	56.92	-5.85	51.07	110.80	-59.73	Vertical	PK
5855	46.70	-5.85	40.85	54.00	-13.15	Vertical	AV
5875	51.34	-5.80	45.54	105.20	-59.66	Vertical	PK
5875	38.34	-5.80	32.54	54.00	-21.46	Vertical	AV
5925	50.49	-5.68	44.81	68.20	-23.39	Vertical	PK
5925	39.60	-5.68	33.92	54.00	-20.08	Vertical	AV
5850	47.98	-5.87	42.11	122.20	-80.09	Horizontal	PK
5850	35.93	-5.87	30.06	54.00	-23.94	Horizontal	AV
5855	46.18	-5.85	40.33	110.80	-70.47	Horizontal	PK
5855	36.51	-5.85	30.66	54.00	-23.34	Horizontal	AV
5875	51.33	-5.80	45.53	105.20	-59.67	Horizontal	PK
5875	39.10	-5.80	33.30	54.00	-20.70	Horizontal	AV
5925	60.72	-5.68	55.04	68.20	-13.16	Horizontal	PK
5925	42.94	-5.68	37.26	54.00	-16.74	Horizontal	AV

IEEE 802.11ac40							
Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	53.31	-6.34	46.97	68.20	-21.23	Horizontal	PK
5650	39.56	-6.34	33.22	54.00	-20.78	Horizontal	AV
5700	50.51	-6.22	44.29	105.20	-60.91	Horizontal	PK
5700	38.03	-6.22	31.81	54.00	-22.19	Horizontal	AV
5720	54.10	-6.17	47.93	110.80	-62.87	Horizontal	PK
5720	41.55	-6.17	35.38	54.00	-18.62	Horizontal	AV
5725	55.72	-6.16	49.56	122.20	-72.64	Horizontal	PK
5725	42.82	-6.16	36.66	54.00	-17.34	Horizontal	AV
5650	56.17	-6.34	49.83	68.20	-18.37	Vertical	PK
5650	42.86	-6.34	36.52	54.00	-17.48	Vertical	AV
5700	60.73	-6.22	54.51	105.20	-50.69	Vertical	PK
5700	47.77	-6.22	41.55	54.00	-12.45	Vertical	AV
5720	57.19	-6.17	51.02	110.80	-59.78	Vertical	PK
5720	49.01	-6.17	42.84	54.00	-11.16	Vertical	AV
5725	54.48	-6.16	48.32	122.20	-73.88	Vertical	PK
5725	43.40	-6.16	37.24	54.00	-16.76	Vertical	AV

IEEE 802.11ac40							
Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	63.67	-5.87	57.80	122.20	-64.40	Vertical	PK
5850	47.90	-5.87	42.03	54.00	-11.97	Vertical	AV
5855	59.74	-5.85	53.89	110.80	-56.91	Vertical	PK
5855	49.01	-5.85	43.16	54.00	-10.84	Vertical	AV
5875	53.88	-5.80	48.08	105.20	-57.12	Vertical	PK
5875	40.24	-5.80	34.44	54.00	-19.56	Vertical	AV
5925	52.99	-5.68	47.31	68.20	-20.89	Vertical	PK
5925	41.56	-5.68	35.88	54.00	-18.12	Vertical	AV
5850	50.35	-5.87	44.48	122.20	-77.72	Horizontal	PK
5850	37.70	-5.87	31.83	54.00	-22.17	Horizontal	AV
5855	48.47	-5.85	42.62	110.80	-68.18	Horizontal	PK
5855	38.32	-5.85	32.47	54.00	-21.53	Horizontal	AV
5875	53.87	-5.80	48.07	105.20	-57.13	Horizontal	PK
5875	41.03	-5.80	35.23	54.00	-18.77	Horizontal	AV
5925	63.72	-5.68	58.04	68.20	-10.16	Horizontal	PK
5925	45.07	-5.68	39.39	54.00	-14.61	Horizontal	AV

IEEE 802.11ac80							
Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	51.06	-6.34	44.72	68.20	-23.48	Horizontal	PK
5650	37.71	-6.34	31.37	54.00	-22.63	Horizontal	AV
5700	48.35	-6.22	42.13	105.20	-63.07	Horizontal	PK
5700	36.23	-6.22	30.01	54.00	-23.99	Horizontal	AV
5720	51.83	-6.17	45.66	110.80	-65.14	Horizontal	PK
5720	39.64	-6.17	33.47	54.00	-20.53	Horizontal	AV
5725	53.41	-6.16	47.25	122.20	-74.95	Horizontal	PK
5725	40.87	-6.16	34.71	54.00	-19.29	Horizontal	AV
5650	53.85	-6.34	47.51	68.20	-20.69	Vertical	PK
5650	40.91	-6.34	34.57	54.00	-19.43	Vertical	AV
5700	58.28	-6.22	52.06	105.20	-53.14	Vertical	PK
5700	45.70	-6.22	39.48	54.00	-14.52	Vertical	AV
5720	54.84	-6.17	48.67	110.80	-62.13	Vertical	PK
5720	46.89	-6.17	40.72	54.00	-13.28	Vertical	AV
5725	52.21	-6.16	46.05	122.20	-76.16	Vertical	PK
5725	41.44	-6.16	35.28	54.00	-18.72	Vertical	AV

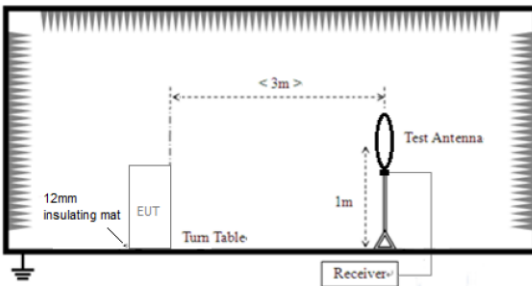
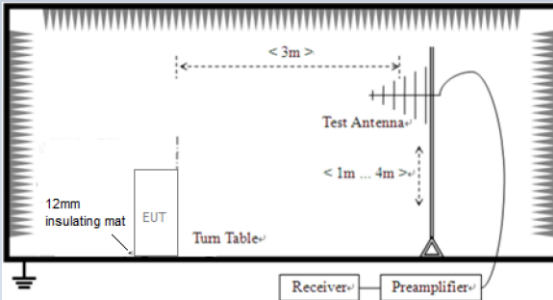
IEEE 802.11ac80							
Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	61.87	-5.87	56.00	122.20	-66.20	Vertical	PK
5850	46.54	-5.87	40.67	54.00	-13.33	Vertical	AV
5855	58.06	-5.85	52.21	110.80	-58.59	Vertical	PK
5855	47.63	-5.85	41.78	54.00	-12.22	Vertical	AV
5875	52.35	-5.80	46.55	105.20	-58.65	Vertical	PK
5875	39.09	-5.80	33.29	54.00	-20.71	Vertical	AV
5925	51.48	-5.68	45.80	68.20	-22.40	Vertical	PK
5925	40.39	-5.68	34.71	54.00	-19.29	Vertical	AV
5850	48.92	-5.87	43.05	122.20	-79.15	Horizontal	PK
5850	36.64	-5.87	30.77	54.00	-23.23	Horizontal	AV
5855	47.10	-5.85	41.25	110.80	-69.55	Horizontal	PK
5855	37.23	-5.85	31.38	54.00	-22.62	Horizontal	AV
5875	52.34	-5.80	46.54	105.20	-58.66	Horizontal	PK
5875	39.88	-5.80	34.08	54.00	-19.92	Horizontal	AV
5925	61.91	-5.68	56.23	68.20	-11.97	Horizontal	PK
5925	43.79	-5.68	38.11	54.00	-15.89	Horizontal	AV

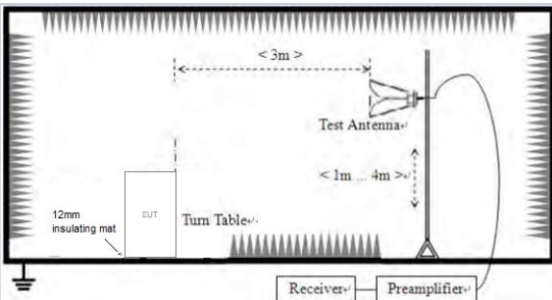
Remark:

Factor =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

4.8 Spurious Emission

4.8.1 Radiated Emission Method

Test Requirement:	47CFR Part 15.209, Part 15E Section 15.407(b)(4)				
Test Method:	ANSI C63.10-2020+COR 1-2023§6.4&6.5&6.6				
Test Frequency Range:	9kHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Frequency	Limit (dBm/MHz)	Remark		
	Above 1GHz	-27.0	Peak Value		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to 1GHz				
					
	For radiated emissions above 1GHz				

	
Test Procedure:	1. Place the EUT on a 12mm insulation pad at the top of the rotating table above the ground. Rotate the table 360 degrees to determine the position of the highest radiation. For the Above 1GHz test, the EUT transmitting antenna is located at 1.5m 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement Data:

9 kHz ~ 30 MHz

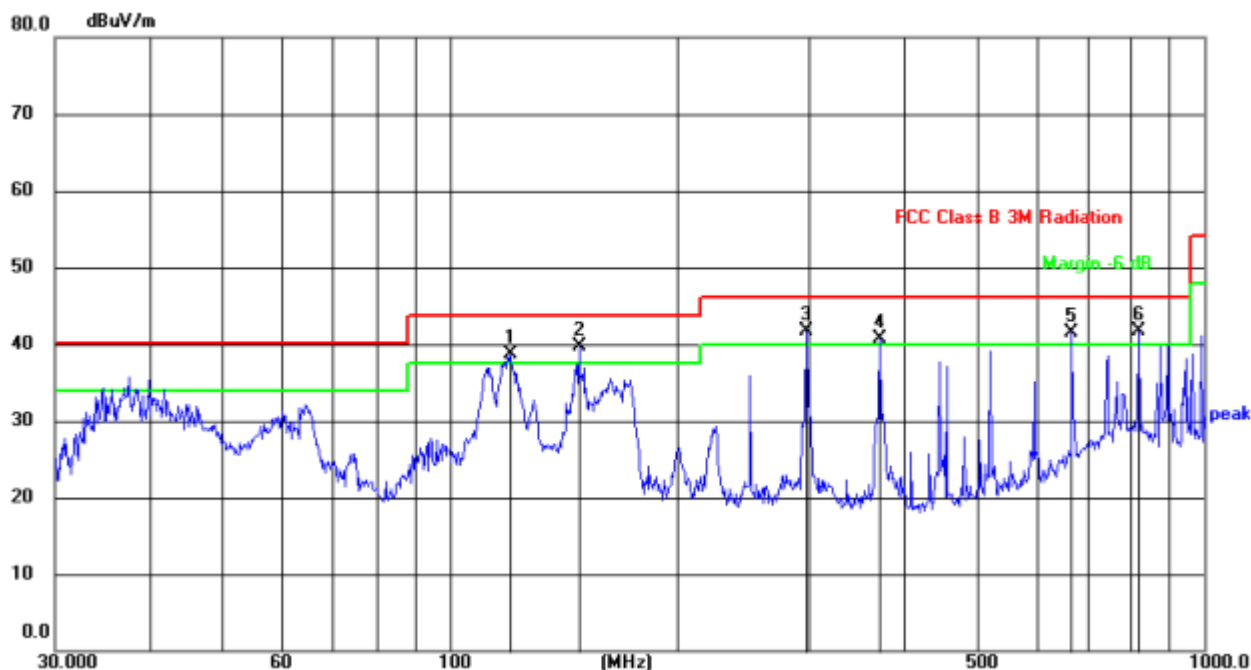
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Below 1GHz

Remark: The test data shows only the worst case 802.11ac20 mode.

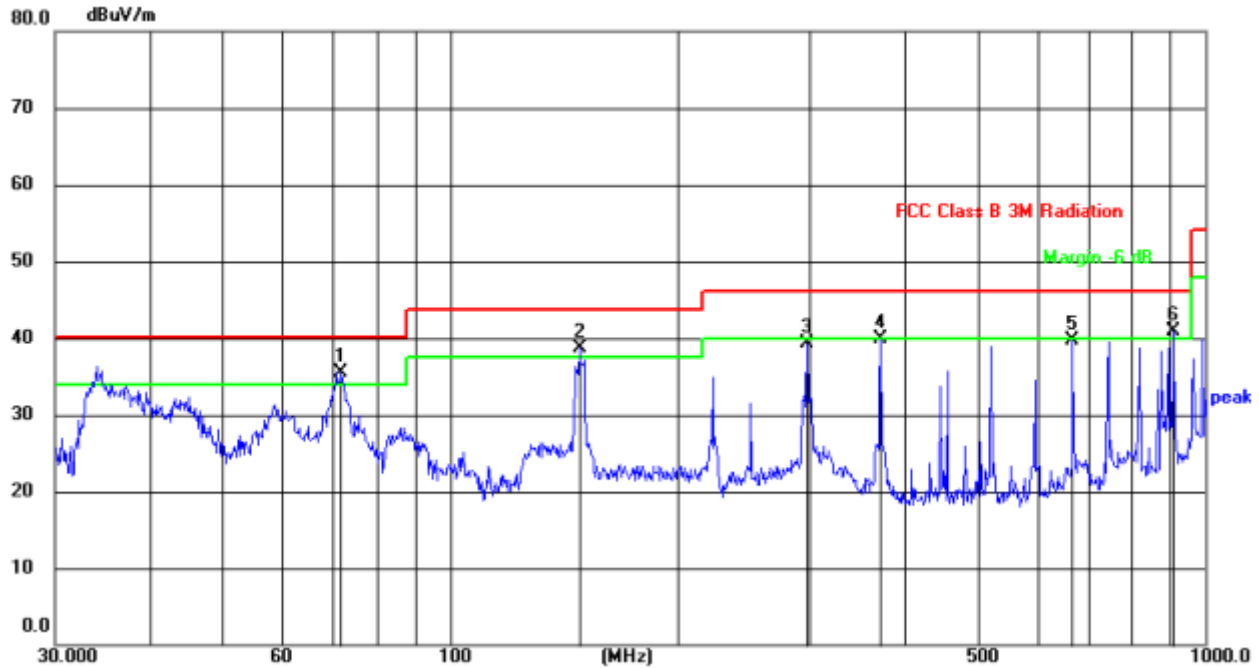
Temperature:	20.6°C	Relative Humidity:	57%
Pressure:	101.2kPa	Test Voltage :	AC 120V 60Hz
Test Mode :	5.2G TX- 802.11ac20 (5180MHz)		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	120.2766	61.91	-23.16	38.75	43.50	-4.75	QP
2	148.4410	60.37	-20.68	39.69	43.50	-3.81	QP
3	297.2238	62.04	-20.40	41.64	46.00	-4.36	QP
4	372.0045	59.04	-18.30	40.74	46.00	-5.26	QP
5	668.1422	51.52	-10.10	41.42	46.00	-4.58	QP
6	818.8337	48.17	-6.41	41.76	46.00	-4.24	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.8319	60.11	-24.52	35.59	40.00	-4.41	QP
2	148.4410	59.40	-20.68	38.72	43.50	-4.78	QP
3	297.2238	59.72	-20.40	39.32	46.00	-6.68	QP
4	372.0045	58.29	-18.30	39.99	46.00	-6.01	QP
5	668.1422	49.89	-10.10	39.79	46.00	-6.21	QP
6	909.6666	46.12	-5.13	40.99	46.00	-5.01	QP

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11a mode

Above 1GHz:

Remark: The test data shows only the worst case 802.11ac20 mode.

Temperature:	20.6°C	Relative Humidity:	57%
Pressure:	101.2kPa	Test Voltage :	AC 120V 60Hz
Test Mode :	5.2G TX- 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5180MHz							
V	10360.00	43.10	1.77	44.87	68.20	-23.33	PK
V	10360.00	38.33	1.77	40.10	54.00	-13.90	AV
V	15540.00	47.83	7.72	55.55	74.00	-18.45	PK
V	15540.00	36.86	7.72	44.58	54.00	-9.42	AV
V	20720.00	53.51	-5.73	47.78	68.20	-20.42	PK
V	20720.00	48.86	-5.73	43.13	54.00	-10.87	AV
V	25900.00	50.05	-2.89	47.16	68.20	-21.04	PK
V	25900.00	44.63	-2.89	41.74	54.00	-12.26	AV
V	31080.00	46.94	1.66	48.60	68.20	-19.60	PK
V	31080.00	42.07	1.66	43.73	54.00	-10.27	AV
V	36260.00	43.92	4.63	48.55	68.20	-19.65	PK
V	36260.00	38.99	4.63	43.62	54.00	-10.38	AV
H	10360.00	42.55	1.77	44.32	68.20	-23.88	PK
H	10360.00	37.81	1.77	39.58	54.00	-14.42	AV
H	15540.00	47.61	7.72	55.33	74.00	-18.67	PK
H	15540.00	37.26	7.72	44.98	54.00	-9.02	AV
H	20720.00	53.28	-5.73	47.55	68.20	-20.65	PK
H	20720.00	47.95	-5.73	42.22	54.00	-11.78	AV
H	25900.00	50.04	-2.89	47.15	68.20	-21.05	PK
H	25900.00	45.04	-2.89	42.15	54.00	-11.85	AV
H	31080.00	46.16	1.66	47.82	68.20	-20.38	PK
H	31080.00	40.87	1.66	42.53	54.00	-11.47	AV
H	36260.00	43.80	4.63	48.43	68.20	-19.77	PK
H	36260.00	39.48	4.63	44.11	54.00	-9.89	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Middle Channel:5200Hz							
V	10400.00	42.54	1.85	44.39	68.20	-23.81	PK
V	10400.00	38.18	1.85	40.03	54.00	-13.97	AV
V	15600.00	47.32	7.64	54.96	74.00	-19.04	PK
V	15600.00	36.51	7.64	44.15	54.00	-9.85	AV
V	20800.00	53.27	-5.67	47.60	68.20	-20.60	PK
V	20800.00	48.14	-5.67	42.47	54.00	-11.53	AV
V	26000.00	50.21	-2.85	47.36	68.20	-20.84	PK
V	26000.00	44.83	-2.85	41.98	54.00	-12.02	AV
V	31200.00	46.29	1.57	47.86	68.20	-20.34	PK
V	31200.00	41.23	1.57	42.80	54.00	-11.20	AV
V	36400.00	43.92	4.93	48.85	68.20	-19.35	PK
V	36400.00	39.49	4.93	44.42	54.00	-9.58	AV
H	10400.00	43.00	1.85	44.85	68.20	-23.35	PK
H	10400.00	38.88	1.85	40.73	54.00	-13.27	AV
H	15600.00	49.03	7.64	56.67	74.00	-17.33	PK
H	15600.00	38.35	7.64	45.99	54.00	-8.01	AV
H	20800.00	54.29	-5.67	48.62	68.20	-19.58	PK
H	20800.00	48.84	-5.67	43.17	54.00	-10.83	AV
H	26000.00	48.01	-2.85	45.16	68.20	-23.04	PK
H	26000.00	35.32	-2.85	32.47	54.00	-21.53	AV
H	31200.00	46.15	1.57	47.72	68.20	-20.48	PK
H	31200.00	40.85	1.57	42.42	54.00	-11.58	AV
H	36400.00	43.65	4.93	48.58	68.20	-19.62	PK
H	36400.00	38.58	4.93	43.51	54.00	-10.49	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
High Channel:5240MHz							
V	10480.00	44.19	2.02	46.21	68.20	-21.99	PK
V	10480.00	39.28	2.02	41.30	54.00	-12.70	AV
V	15720.00	46.35	7.46	53.81	74.00	-20.19	PK
V	15720.00	36.06	7.46	43.52	54.00	-10.48	AV
V	20960.00	53.61	-5.56	48.05	68.20	-20.15	PK
V	20960.00	48.46	-5.56	42.90	54.00	-11.10	AV
V	26200.00	49.40	-2.50	46.90	68.20	-21.30	PK
V	26200.00	45.02	-2.50	42.52	54.00	-11.48	AV
V	31440.00	46.46	1.39	47.85	68.20	-20.35	PK
V	31440.00	41.40	1.39	42.79	54.00	-11.21	AV
V	36680.00	43.36	5.25	48.61	68.20	-19.59	PK
V	36680.00	39.03	5.25	44.28	54.00	-9.72	AV
H	10480.00	43.34	2.02	45.36	68.20	-22.84	PK
H	10480.00	38.30	2.02	40.32	54.00	-13.68	AV
H	15720.00	47.76	7.46	55.22	74.00	-18.78	PK
H	15720.00	37.08	7.46	44.54	54.00	-9.46	AV
H	20960.00	54.37	-5.56	48.81	68.20	-19.39	PK
H	20960.00	48.80	-5.56	43.24	54.00	-10.76	AV
H	26200.00	49.85	-2.50	47.35	68.20	-20.85	PK
H	26200.00	45.75	-2.50	43.25	54.00	-10.75	AV
H	31440.00	46.70	1.39	48.09	68.20	-20.11	PK
H	31440.00	42.48	1.39	43.87	54.00	-10.13	AV
H	36680.00	44.43	5.15	49.58	68.20	-18.62	PK
H	36680.00	44.19	5.15	49.34	54.00	-4.66	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Temperature:	20.6°C	Relative Humidity:	57%
Pressure:	101.2kPa	Test Voltage :	AC 120V 60Hz
Test Mode :	5.8G TX- 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5745MHz							
V	11490.00	47.03	3.31	50.34	74.00	-23.66	PK
V	11490.00	37.50	3.31	40.81	54.00	-13.19	AV
V	17235.00	43.37	10.10	53.47	68.20	-14.73	PK
V	17235.00	38.07	10.10	48.17	54.00	-5.83	AV
V	22980.00	55.52	-4.61	50.91	74.00	-23.09	PK
V	22980.00	46.00	-4.61	41.39	54.00	-12.61	AV
V	28725.00	47.96	0.87	48.83	68.20	-19.37	PK
V	28725.00	42.76	0.87	43.63	54.00	-10.37	AV
V	34470.00	44.06	3.82	47.88	68.20	-20.32	PK
V	34470.00	39.43	3.82	43.25	54.00	-10.75	AV
H	11490.00	47.34	3.31	50.65	74.00	-23.35	PK
H	11490.00	36.82	3.31	40.13	54.00	-13.87	AV
H	17235.00	41.89	10.10	51.99	68.20	-16.21	PK
H	17235.00	36.75	10.10	46.85	54.00	-7.15	AV
H	22980.00	57.83	-4.61	53.22	74.00	-20.78	PK
H	22980.00	46.90	-4.61	42.29	54.00	-11.71	AV
H	28725.00	47.94	0.87	48.81	68.20	-19.39	PK
H	28725.00	43.57	0.87	44.44	54.00	-9.56	AV
H	34470.00	44.46	3.82	48.28	68.20	-19.92	PK
H	34470.00	40.21	3.82	44.03	54.00	-9.97	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5785MHz							
V	11570.00	47.72	3.34	51.06	74.00	-22.94	PK
V	11570.00	37.23	3.34	40.57	54.00	-13.43	AV
V	17355.00	43.34	10.52	53.86	68.20	-14.34	PK
V	17355.00	38.66	10.52	49.18	54.00	-4.82	AV
V	23140.00	55.17	-4.66	50.51	74.00	-23.49	PK
V	23140.00	45.32	-4.66	40.66	54.00	-13.34	AV
V	28925.00	47.45	1.36	48.81	68.20	-19.39	PK
V	28925.00	43.69	1.36	45.05	54.00	-8.95	AV
V	34710.00	43.85	3.95	47.80	68.20	-20.40	PK
V	34710.00	39.03	3.95	42.98	54.00	-11.02	AV
H	11570.00	48.52	3.34	51.86	74.00	-22.14	PK
H	11570.00	38.20	3.34	41.54	54.00	-12.46	AV
H	17355.00	41.69	10.52	52.21	68.20	-15.99	PK
H	17355.00	34.70	10.52	45.22	54.00	-8.78	AV
H	23140.00	54.54	-4.66	49.88	74.00	-24.12	PK
H	23140.00	43.17	-4.66	38.51	54.00	-15.49	AV
H	28925.00	53.28	1.36	54.64	68.20	-13.56	PK
H	28925.00	47.74	1.36	49.10	54.00	-4.90	AV
H	34710.00	53.57	3.95	57.52	68.20	-10.68	PK
H	34710.00	42.42	3.95	46.37	54.00	-7.63	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5825MHz							
V	11650.00	46.07	3.36	49.43	74.00	-24.57	PK
V	11650.00	36.59	3.36	39.95	54.00	-14.05	AV
V	17475.00	42.65	10.93	53.58	68.20	-14.62	PK
V	17475.00	38.15	10.93	49.08	54.00	-4.92	AV
V	23300.00	53.38	-4.77	48.61	68.20	-19.59	PK
V	23300.00	48.01	-4.77	43.24	54.00	-10.76	AV
V	29125.00	47.92	1.65	49.57	68.20	-18.63	PK
V	29125.00	42.42	1.65	44.07	54.00	-9.93	AV
V	34950.00	42.40	4.09	46.49	68.20	-21.71	PK
V	34950.00	38.64	4.09	42.73	54.00	-11.27	AV
H	11650.00	48.97	3.36	52.33	74.00	-21.67	PK
H	11650.00	38.05	3.36	41.41	54.00	-12.59	AV
H	17475.00	40.79	10.93	51.72	68.20	-16.48	PK
H	17475.00	37.04	10.93	47.97	54.00	-6.03	AV
H	23300.00	52.35	-4.77	47.58	68.20	-20.62	PK
H	23300.00	48.86	-4.77	44.09	54.00	-9.91	AV
H	29125.00	48.80	1.65	50.45	68.20	-17.75	PK
H	29125.00	44.28	1.65	45.93	54.00	-8.07	AV
H	34950.00	46.07	4.09	50.16	68.20	-18.04	PK
H	34950.00	36.59	4.09	40.68	54.00	-13.32	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5 Test Setup Photo

Reference to the file No.: ET-26030613SP for details.

6 EUT Constructional Details

Reference to the file No.: ET-26030613EP and ET-26030613IP for details

-----END-----