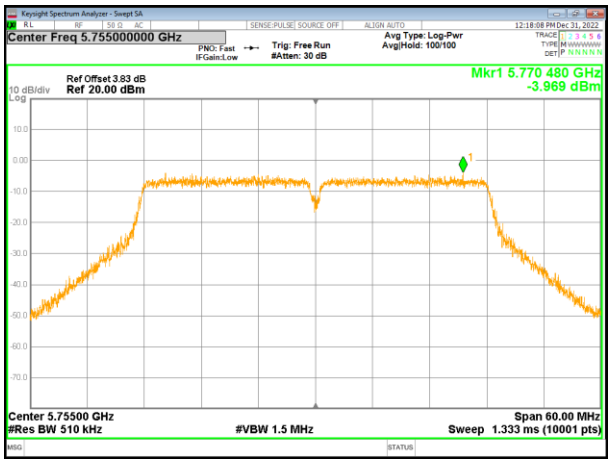
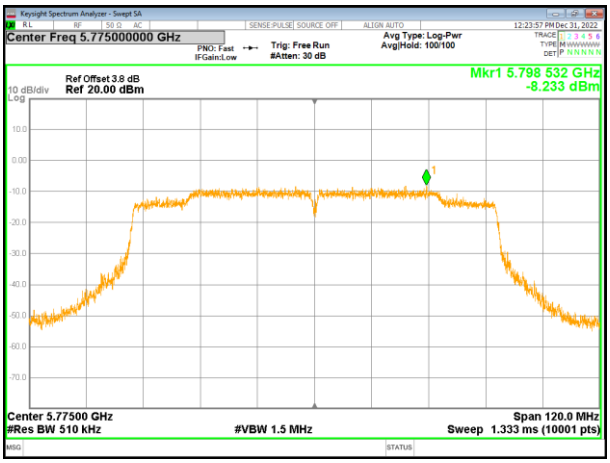
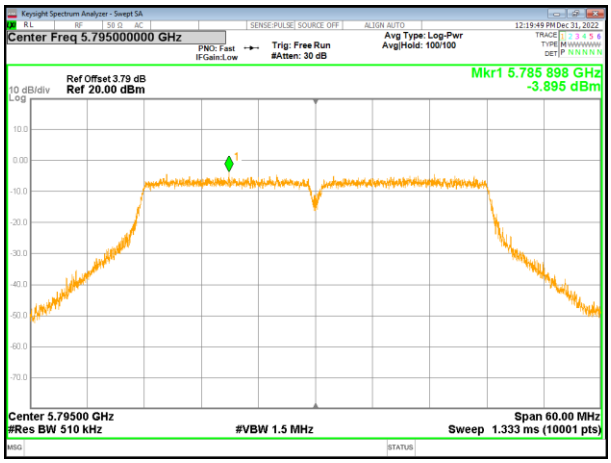
(802.11ac40) PSD plot on channel 151



(802.11ac80) PSD plot on channel 155

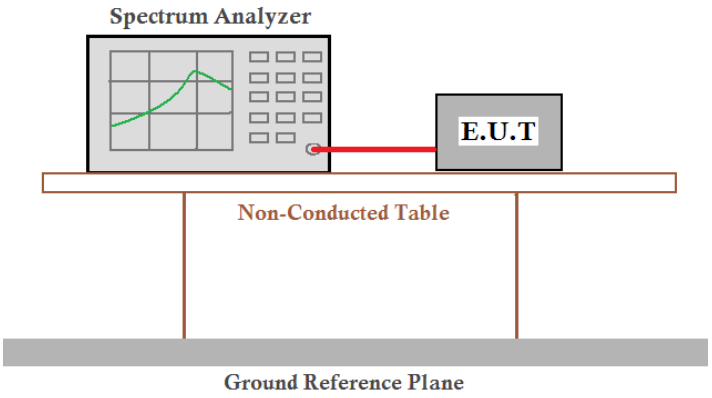


(802.11ac40) PSD plot on channel 159



4.6 Band edge

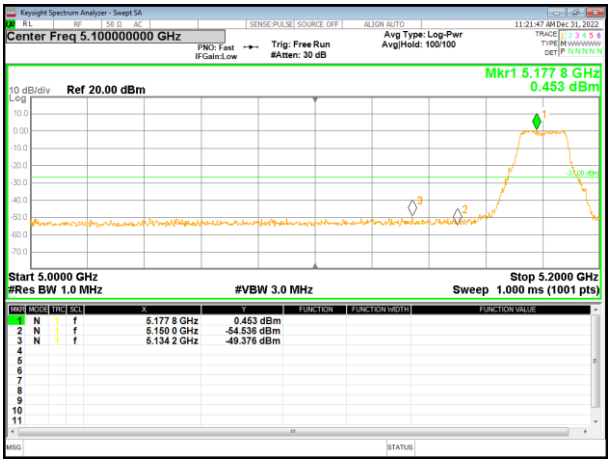
4.6.1 Conducted test Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
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:	
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 results:	Pass

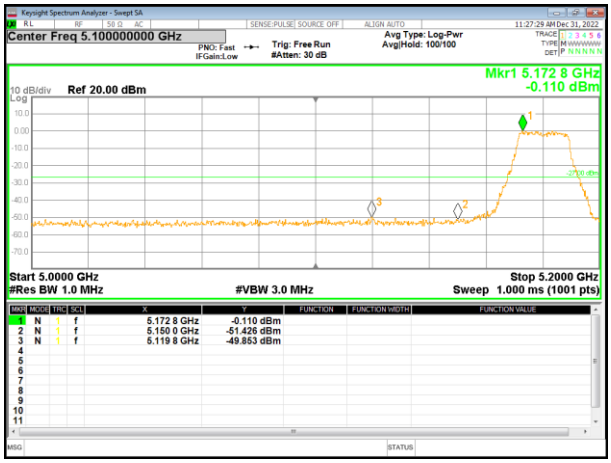
Remarks:/

5.180~5.240 GHz

(802.11a) Band Edge, Left Side

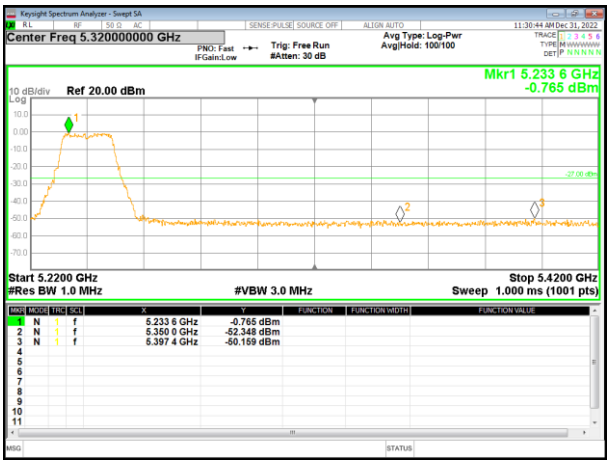


(802.11n20) Band Edge, Left Side

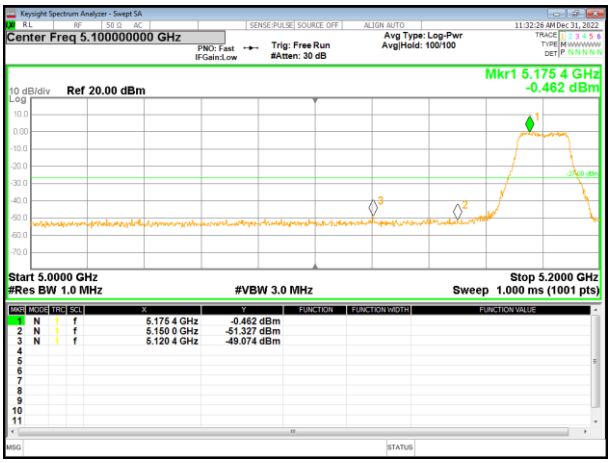


(802.11a) Band Edge, Right Side

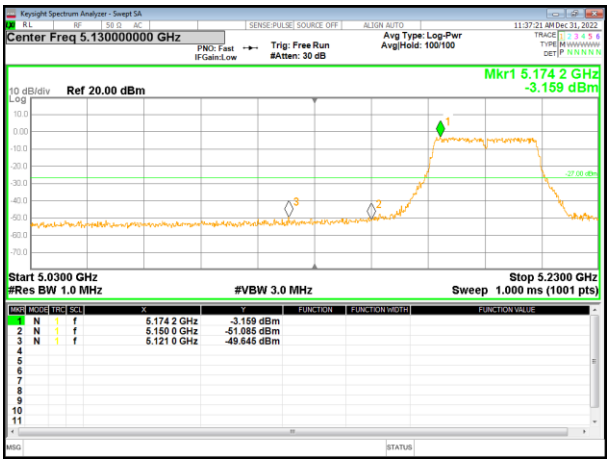
(802.11n20) Band Edge, Right Side



(802.11ac20) Band Edge, Left Side



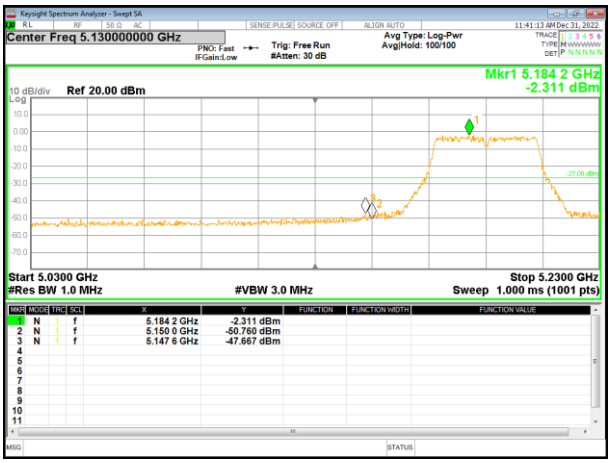
(802.11n40) Band Edge, Left Side



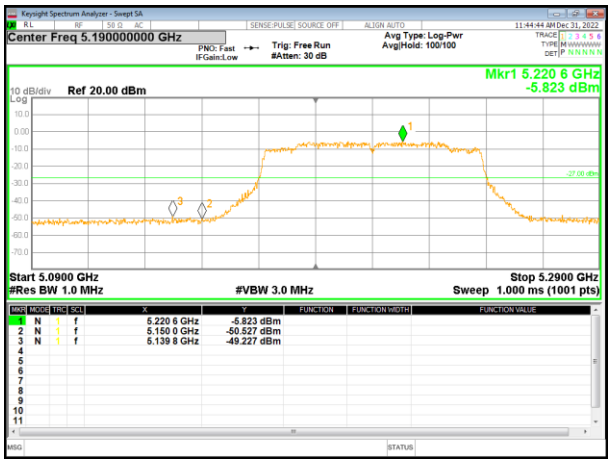
(802.11ac20) Band Edge, Right Side

(802.11n40) Band Edge, Right Side

(802.11ac40) Band Edge, Left Side



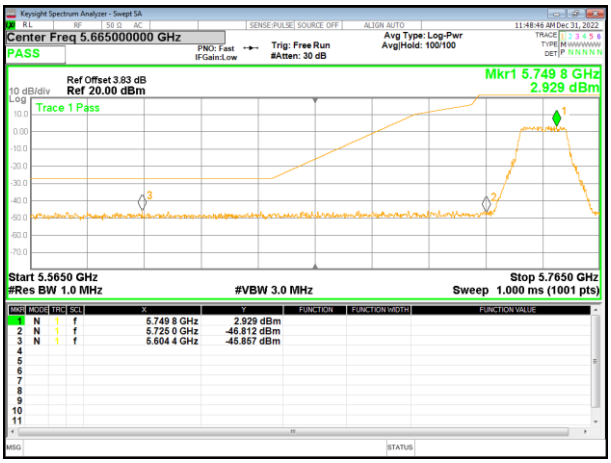
(802.11ac80) Band Edge



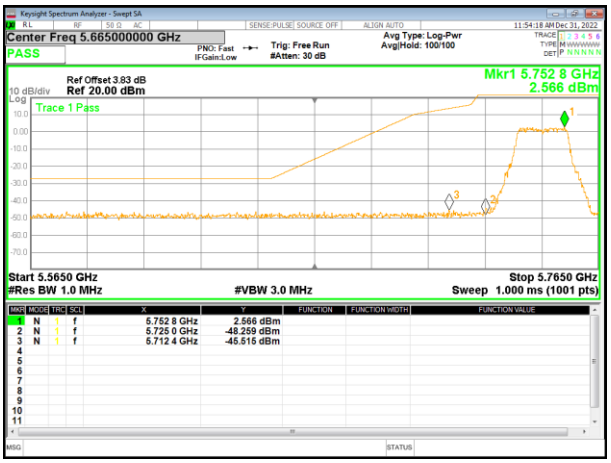
(802.11ac40) Band Edge, Right Side

5.745~5.825 GHz

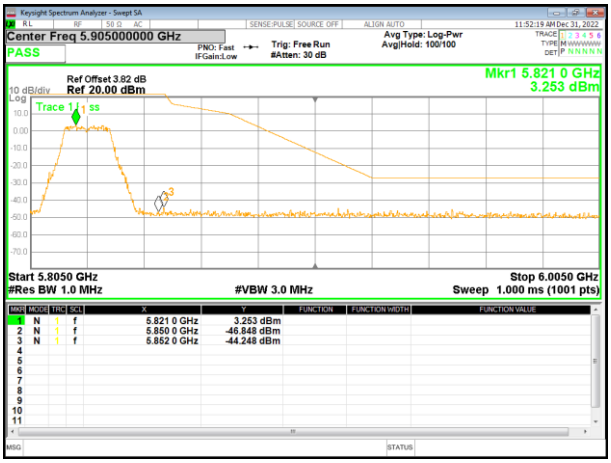
(802.11a) Band Edge, Left Side



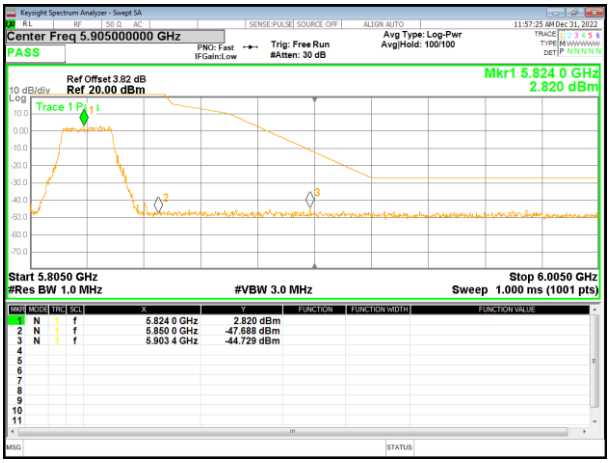
(802.11n20) Band Edge, Left Side



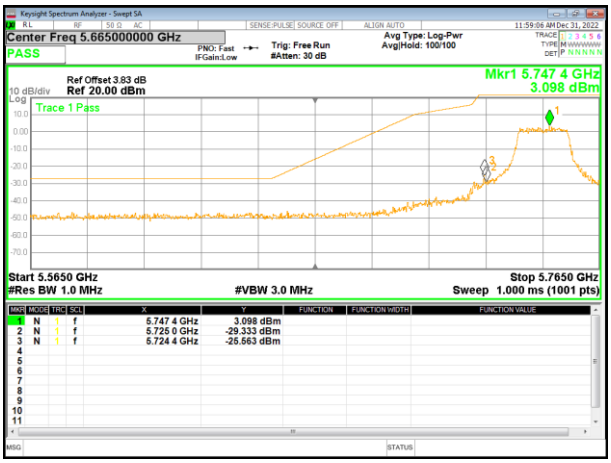
(802.11a) Band Edge, Right Side



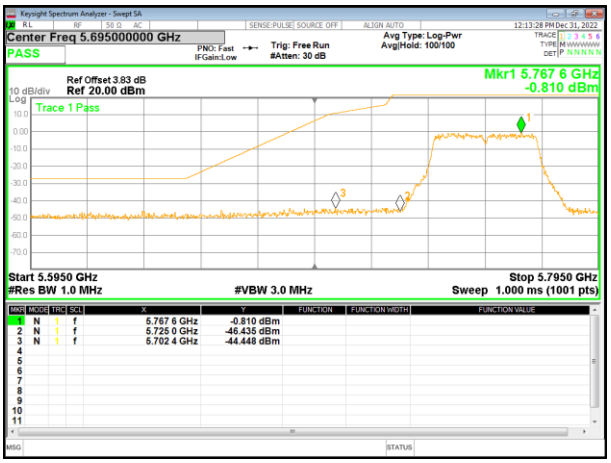
(802.11n20) Band Edge, Right Side



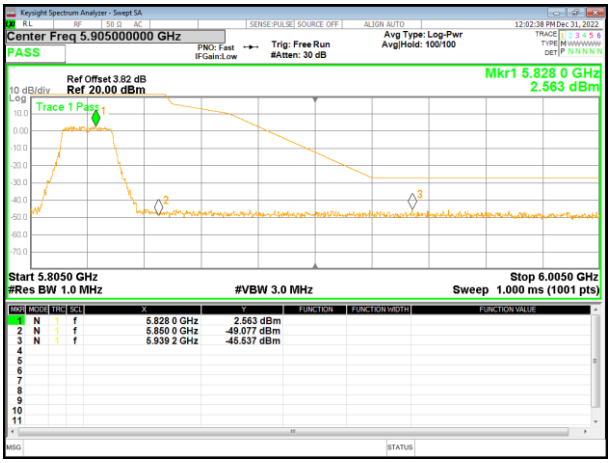
(802.11ac20) Band Edge, Left Side



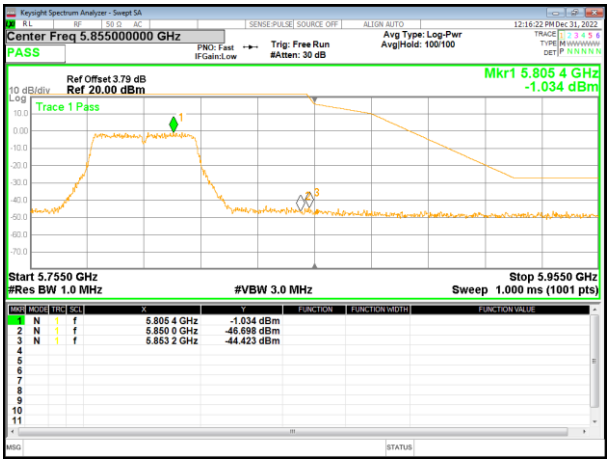
(802.11n40) Band Edge, Left Side



(802.11ac20) Band Edge, Right Side

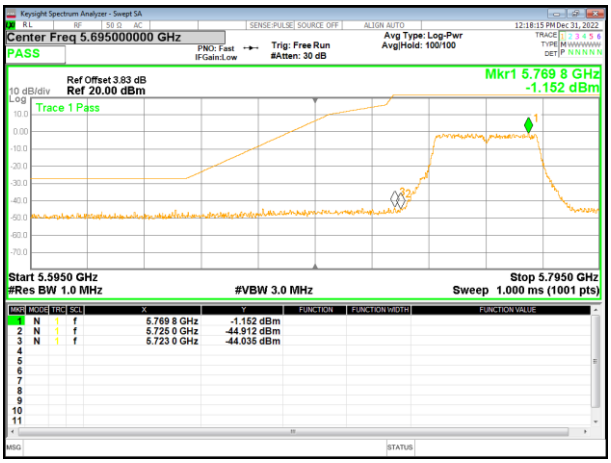


(802.11n40) Band Edge, Right Side



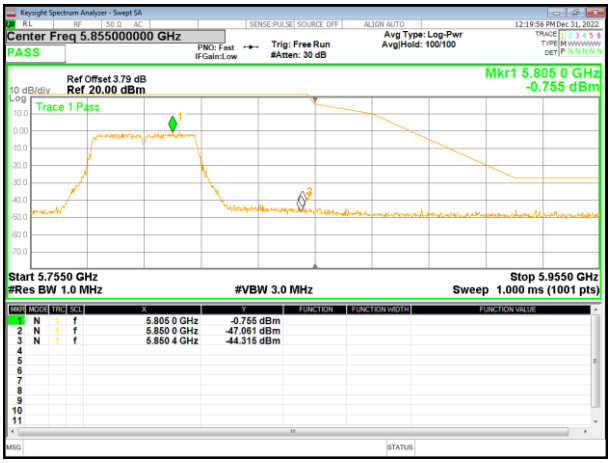
5.745~5.825 GHz

(802.11ac40) Band Edge, Left Side



(802.11ac80) Band Edge

(802.11ac40) Band Edge, Right Side



4.7 Spurious Emission

4.7.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)
Test Method:	ANSI C63.10:2013
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

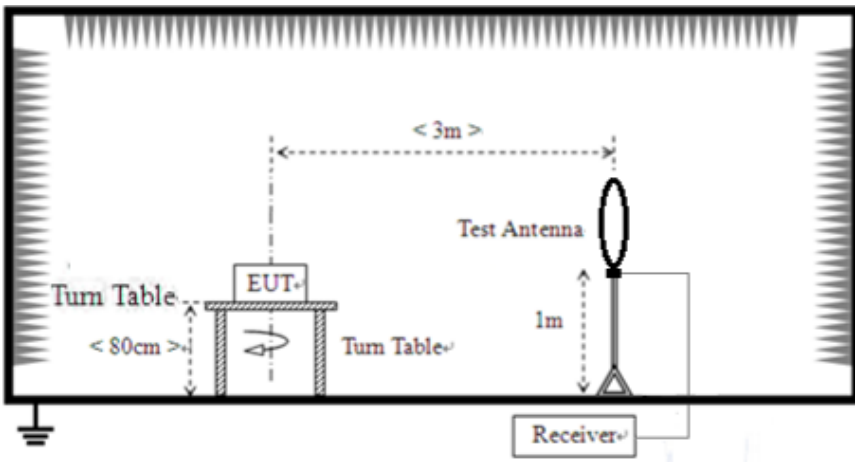
Limit:

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	

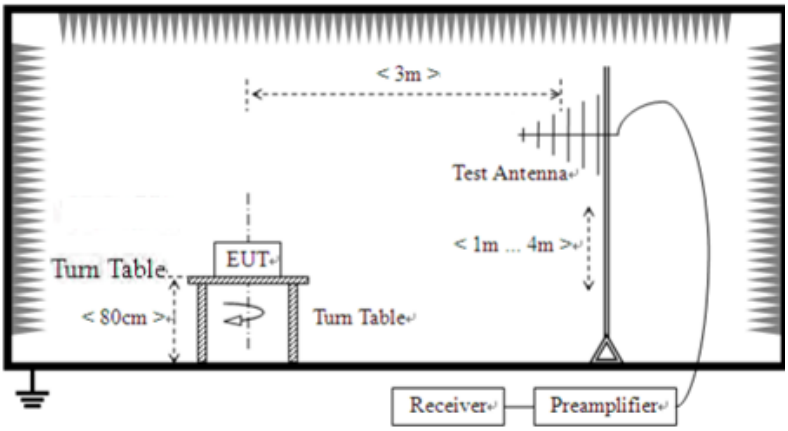
Frequency	Limit (dBm/MHz)	Remark
Above 1GHz	-27.0	Peak Value

Test setup:

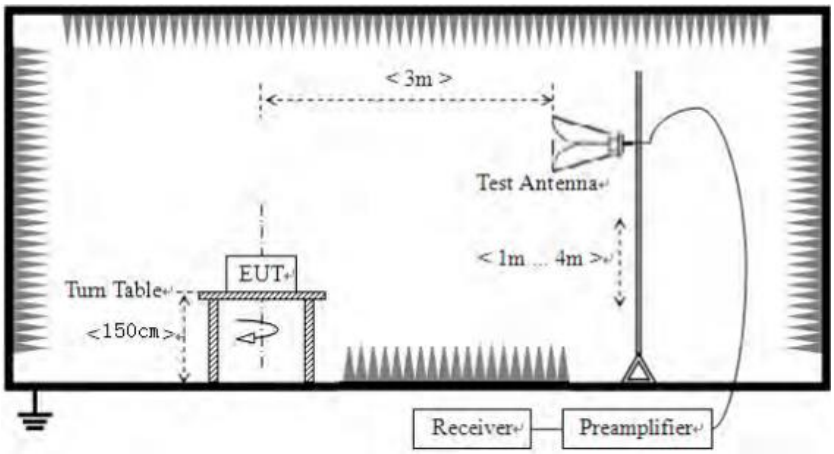
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) 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.:	24.9 °C	Humid.:	51%	Press.:	1012mbar
Test voltage:	DC 12V from adapter or DC 7.4V From adapter					
Test results:	Pass					

Remarks:

1. *All antennas was tested, only show the worst case 802.11a mode test data.*
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.*
3. *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.

Measurement Data:

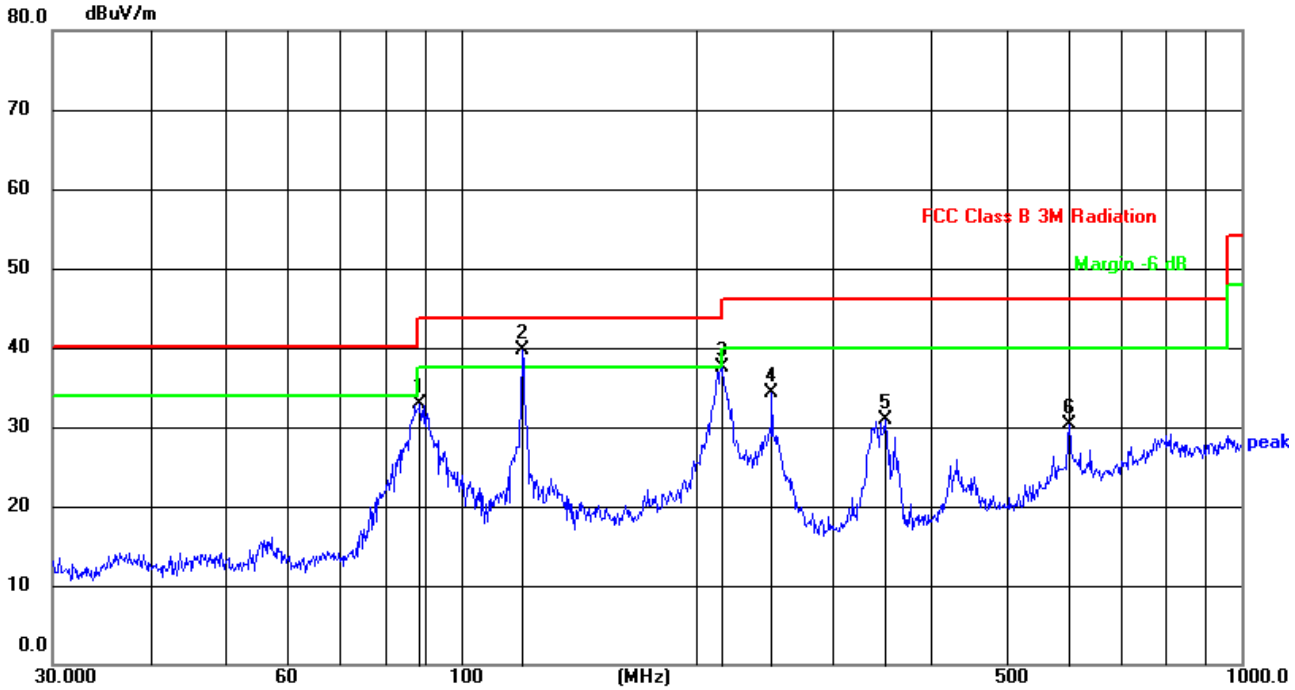
9 kHz ~ 30 MHz

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

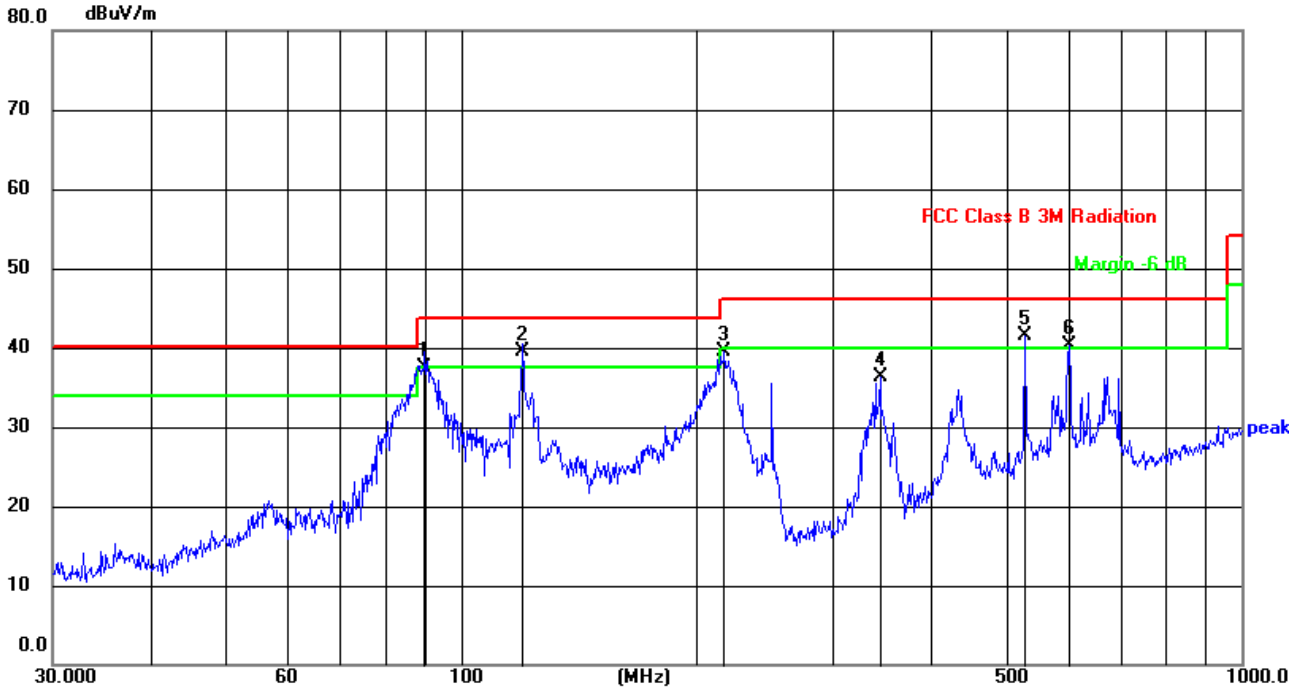
Temperature:	25.6℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Voltage :	DC12V From adapter
Test Mode :	5.2G TX- 802.11a		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	88.6524	53.18	-20.27	32.91	43.50	-10.59	QP
2	119.8555	59.07	-19.28	39.79	43.50	-3.71	QP
3	216.0235	55.99	-18.48	37.51	46.00	-8.49	QP
4	250.3009	52.57	-18.20	34.37	46.00	-11.63	QP
5	349.2500	47.54	-16.70	30.84	46.00	-15.16	QP
6	601.4265	40.41	-10.15	30.26	46.00	-15.74	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	89.9046	57.60	-20.06	37.54	43.50	-5.96	QP
2	119.8555	58.53	-19.05	39.48	43.50	-4.02	QP
3	217.5440	57.85	-18.26	39.59	46.00	-6.41	QP
4	344.3854	54.01	-17.79	36.22	46.00	-9.78	QP
5	528.2458	54.49	-13.04	41.45	46.00	-4.55	QP
6	601.4265	51.44	-11.15	40.29	46.00	-5.71	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 802.11n20 mode

Above 1GHz:

Temperature：	25.6℃	Relative Humidity：	55%
Pressure：	1010 hPa	Test Voltage ：	DC 7.4V From battery
Test Mode ：	5.2G TX- 802.11a		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:5180MHz									
V	10360.00	44.27	46.20	8.27	38.50	44.84	68.20	-23.36	PK
V	10360.00	37.86	46.20	8.27	38.50	38.43	54.00	-15.57	AV
V	15540.00	47.66	46.30	10.35	38.70	50.41	74.00	-23.59	PK
V	15540.00	36.12	46.30	10.35	38.70	38.87	54.00	-15.13	AV
V	20720.00	55.72	57.40	11.93	37.80	48.05	68.20	-20.15	PK
V	20720.00	48.23	57.40	11.93	37.80	40.56	54.00	-13.44	AV
V	25900.00	50.06	56.50	13.45	39.70	46.71	68.20	-21.49	PK
V	25900.00	43.31	56.50	13.45	39.70	39.96	54.00	-14.04	AV
H	10360.00	43.46	46.20	8.27	38.50	44.03	68.20	-24.17	PK
H	10360.00	37.05	46.20	8.27	38.50	37.62	54.00	-16.38	AV
H	15540.00	45.90	46.30	10.35	38.70	48.65	74.00	-25.35	PK
H	15540.00	34.09	46.30	10.35	38.70	36.84	54.00	-17.16	AV
H	20720.00	53.40	57.40	11.93	37.80	45.73	68.20	-22.47	PK
H	20720.00	46.48	57.40	11.93	37.80	38.81	54.00	-15.19	AV
H	25900.00	50.09	56.50	13.45	39.70	46.74	68.20	-21.46	PK
H	25900.00	41.77	56.50	13.45	39.70	38.42	54.00	-15.58	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:5200MHz									
V	10400.00	44.80	46.20	8.27	38.5	45.37	68.20	-22.83	PK
V	10400.00	36.52	46.20	8.27	38.50	37.09	54.00	-16.91	AV
V	15600.00	48.49	46.30	10.35	38.40	50.94	74.00	-23.06	PK
V	15600.00	36.08	46.30	10.35	38.40	38.53	54.00	-15.47	AV
V	20800.00	55.36	57.40	11.93	37.80	47.69	68.20	-20.51	PK
V	20800.00	48.85	57.40	11.93	37.80	41.18	54.00	-12.82	AV
V	26000.00	51.31	56.50	13.45	39.80	48.06	68.20	-20.14	PK
V	26000.00	45.16	56.50	13.45	39.80	41.91	54.00	-12.09	AV
H	10400.00	46.89	46.20	8.27	38.50	47.46	68.20	-20.74	PK
H	10400.00	42.95	46.20	8.27	38.50	43.52	54.00	-10.48	AV
H	15600.00	50.19	46.30	10.35	38.40	52.64	74.00	-21.36	PK
H	15600.00	38.71	46.30	10.35	38.40	41.16	54.00	-12.84	AV
H	20800.00	56.35	57.40	11.93	37.80	48.68	68.20	-19.52	PK
H	20800.00	49.56	57.40	11.93	37.80	41.89	54.00	-12.11	AV
H	26000.00	51.09	56.50	13.45	39.80	47.84	68.20	-20.36	PK
H	26000.00	44.19	56.50	13.45	39.80	40.94	54.00	-13.06	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:5240MHz									
V	10480.00	45.36	46.20	8.27	38.60	46.03	68.20	-22.17	PK
V	10480.00	38.41	46.20	8.27	38.60	39.08	54.00	-14.92	AV
V	15720.00	47.40	46.30	10.35	38.40	49.85	74.00	-24.15	PK
V	15720.00	34.97	46.30	10.35	38.40	37.42	54.00	-16.58	AV
V	20960.00	52.68	57.40	11.93	37.50	44.71	68.20	-23.49	PK
V	20960.00	46.46	57.40	11.93	37.50	38.49	54.00	-15.51	AV
V	26200.00	49.98	56.50	13.45	40.10	47.03	68.20	-21.17	PK
V	26200.00	40.79	56.50	13.45	40.10	37.84	54.00	-16.16	AV
H	10480.00	46.48	46.20	8.27	38.60	47.15	68.20	-21.05	PK
H	10480.00	37.65	46.20	8.27	38.60	38.32	54.00	-15.68	AV
H	15720.00	48.11	46.30	10.35	38.40	50.56	74.00	-23.44	PK
H	15720.00	34.12	46.30	10.35	38.40	36.57	54.00	-17.43	AV
H	20960.00	54.59	57.40	11.93	37.50	46.62	68.20	-21.58	PK
H	20960.00	45.82	57.40	11.93	37.50	37.85	54.00	-16.15	AV
H	26200.00	50.43	56.50	13.45	40.10	47.48	68.20	-20.72	PK
H	26200.00	40.07	56.50	13.45	40.10	37.12	54.00	-16.88	AV

Remark:
1. Emission Level = Meter Reading + 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.
4. The worst mode is 802.11a, only the worst data is recorded.

Temperature：	25.6℃	Relative Humidity：	55%
Pressure：	1010 hPa	Test Voltage ：	DC 7.4V From battery
Test Mode ：	5.8G TX- 802.11a		

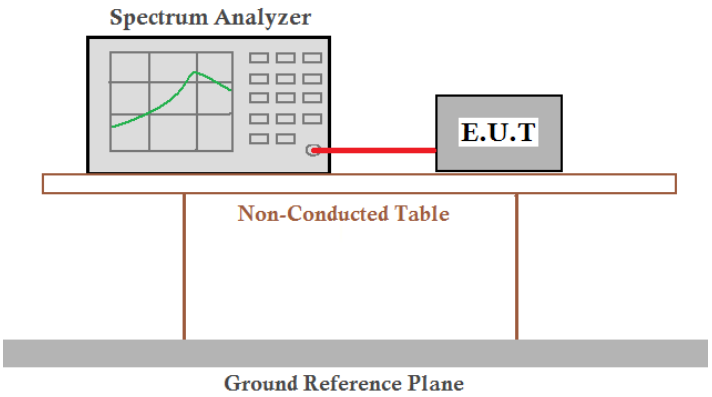
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenn Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:5745MHz									
V	11490.00	49.09	46.10	8.77	39.10	50.86	74.00	-23.14	PK
V	11490.00	36.87	46.10	8.77	39.10	38.64	54.00	-15.36	AV
V	17235.00	43.29	47.60	11.10	38.70	45.49	68.20	-22.71	PK
V	17235.00	35.65	47.60	11.10	38.70	37.85	54.00	-16.15	AV
V	22980.00	56.32	56.90	12.73	37.70	49.85	74.00	-24.15	PK
V	22980.00	45.50	56.90	12.73	37.70	39.03	54.00	-14.97	AV
V	28725.00	48.16	55.60	14.25	40.30	47.11	68.20	-21.09	PK
V	28725.00	39.88	55.60	14.25	40.30	38.83	54.00	-15.17	AV
H	11490.00	49.69	46.10	8.77	39.10	51.46	74.00	-22.54	PK
H	11490.00	37.06	46.10	8.77	39.10	38.83	54.00	-15.17	AV
H	17235.00	45.58	47.60	11.10	38.70	47.78	68.20	-20.42	PK
H	17235.00	38.62	47.60	11.10	38.70	40.82	54.00	-13.18	AV
H	22980.00	58.55	56.90	12.73	37.70	52.08	74.00	-21.92	PK
H	22980.00	45.64	56.90	12.73	37.70	39.17	54.00	-14.83	AV
H	28725.00	49.82	55.60	14.25	40.30	48.77	68.20	-19.43	PK
H	28725.00	43.57	55.60	14.25	40.30	42.52	54.00	-11.48	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:5785MHz									
V	11570.00	48.67	46.10	8.77	39.10	50.44	74.00	-23.56	PK
V	11570.00	37.32	46.10	8.77	39.10	39.09	54.00	-14.91	AV
V	17355.00	43.58	47.70	11.10	38.40	45.38	68.20	-22.82	PK
V	17355.00	38.61	47.70	11.10	38.40	40.41	54.00	-13.59	AV
V	23140.00	56.25	56.90	12.73	37.80	49.88	74.00	-24.12	PK
V	23140.00	55.10	56.90	12.73	37.80	48.73	54.00	-5.27	AV
V	28925.00	48.91	55.60	14.25	40.50	48.06	68.20	-20.14	PK
V	28925.00	42.17	55.60	14.25	40.50	41.32	54.00	-12.68	AV
H	11570.00	51.09	46.10	8.77	39.10	52.86	74.00	-21.14	PK
H	11570.00	39.17	46.10	8.77	39.10	40.94	54.00	-13.06	AV
H	17355.00	43.29	47.70	11.10	38.40	45.09	68.20	-23.11	PK
H	17355.00	38.16	47.70	11.10	38.40	39.96	54.00	-14.04	AV
H	23140.00	57.24	56.90	12.73	37.80	50.87	74.00	-23.13	PK
H	23140.00	46.68	56.90	12.73	37.80	40.31	54.00	-13.69	AV
H	28925.00	48.58	55.60	14.25	40.50	47.73	68.20	-20.47	PK
H	28925.00	42.70	55.60	14.25	40.50	41.85	54.00	-12.15	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:5825MHz									
V	11650.00	49.09	46.10	8.77	39.10	50.86	74.00	-23.14	PK
V	11650.00	37.08	46.10	8.77	39.10	38.85	54.00	-15.15	AV
V	17475.00	43.55	47.90	11.23	38.90	45.78	68.20	-22.42	PK
V	17475.00	36.04	47.90	11.23	38.90	38.27	54.00	-15.73	AV
V	23300.00	52.86	57.10	12.73	37.80	46.29	68.20	-21.91	PK
V	23300.00	47.06	57.10	12.73	37.80	40.49	54.00	-13.51	AV
V	29125.00	48.83	55.80	14.25	40.50	47.78	68.20	-20.42	PK
V	29125.00	40.24	55.80	14.25	40.50	39.19	54.00	-14.81	AV
H	11650.00	50.06	46.10	8.77	39.10	51.83	74.00	-22.17	PK
H	11650.00	37.22	46.10	8.77	39.10	38.99	54.00	-15.01	AV
H	17475.00	42.45	47.90	11.23	38.90	44.68	68.20	-23.52	PK
H	17475.00	35.60	47.90	11.23	38.90	37.83	54.00	-16.17	AV
H	23300.00	54.66	57.10	12.73	37.80	48.09	68.20	-20.11	PK
H	23300.00	45.93	57.10	12.73	37.80	39.36	54.00	-14.64	AV
H	29125.00	48.88	55.80	14.25	40.50	47.83	68.20	-20.37	PK
H	29125.00	42.43	55.80	14.25	40.50	41.38	54.00	-12.62	AV

Remark:
1. Emission Level = Meter Reading + 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.
4. The worst mode is 802.11a, only the worst data is recorded.

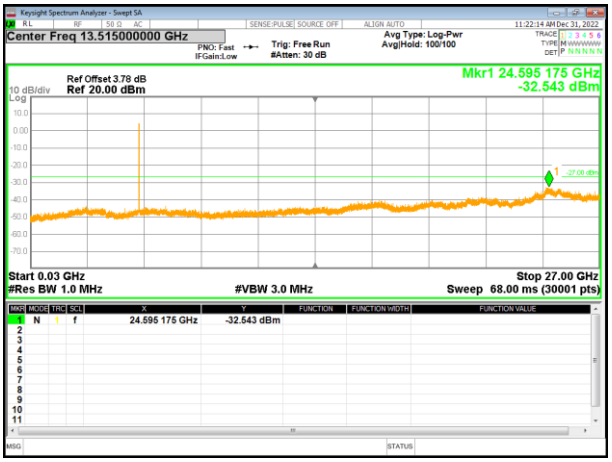
4.7.2 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)
Test Method:	ANSI C63.10:2013
Limit:	-27dBm/MHz
Test setup:	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

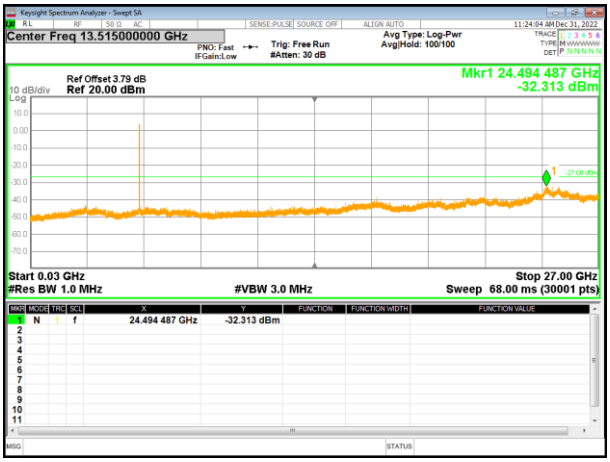
Test Plots:

5180-5240MHz

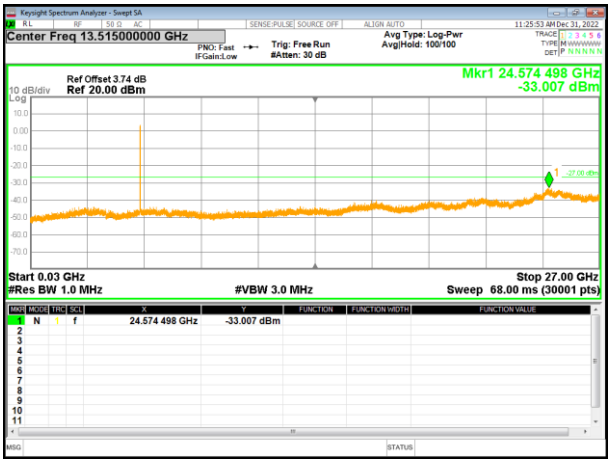
802.11a on channel 36



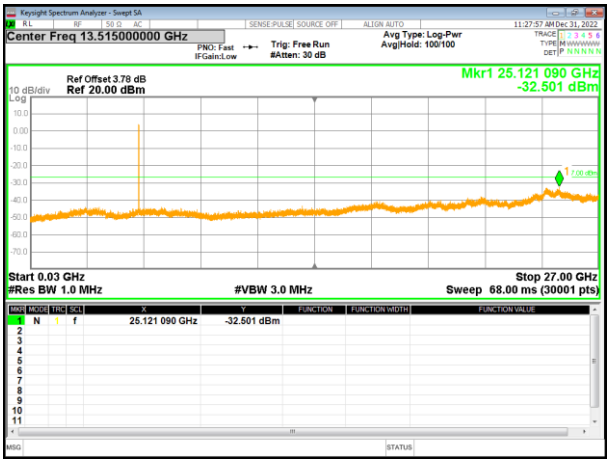
802.11a on channel 40



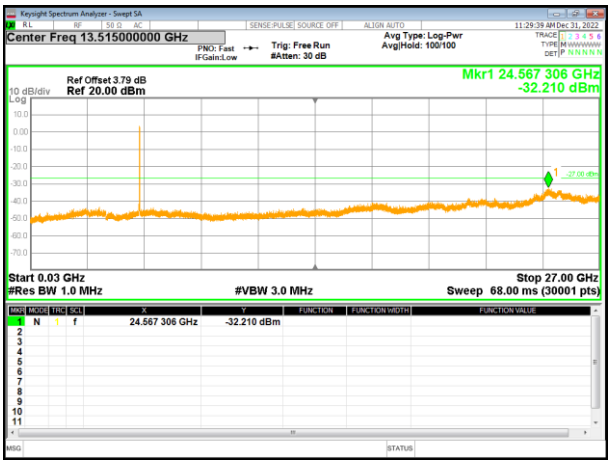
802.11a on channel 48



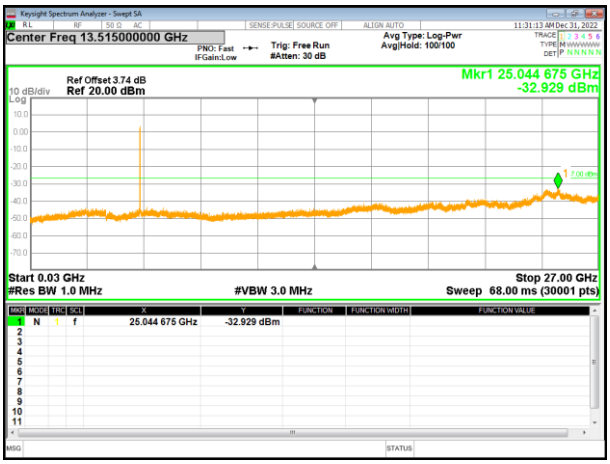
802.11n20 on channel 36

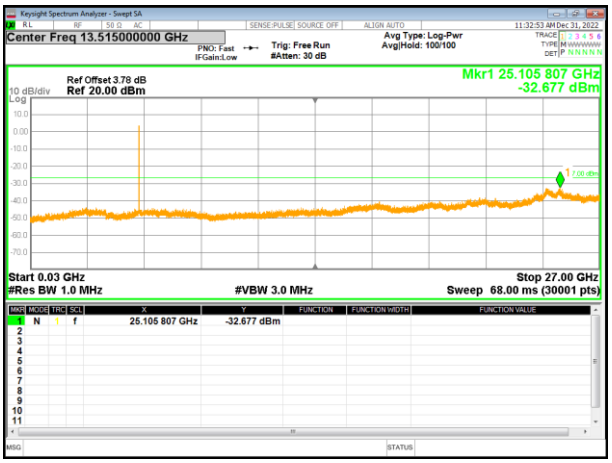
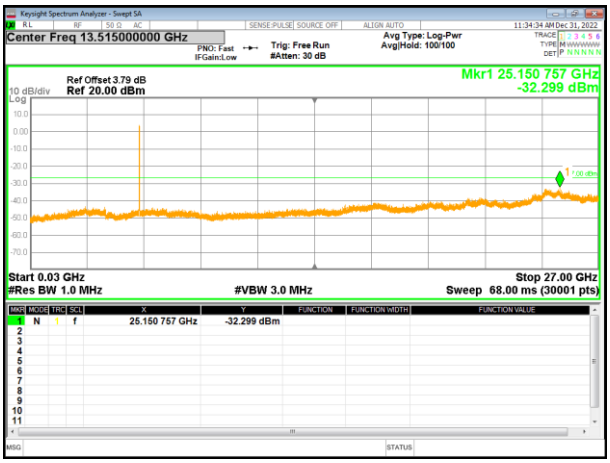
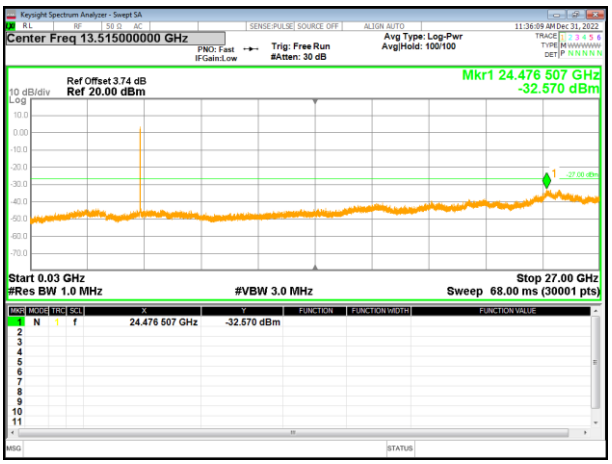
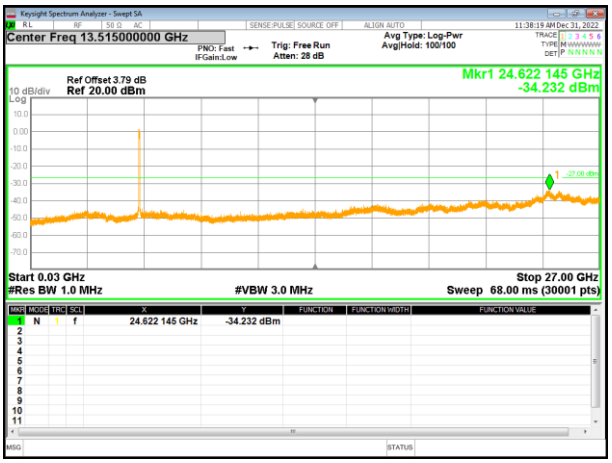
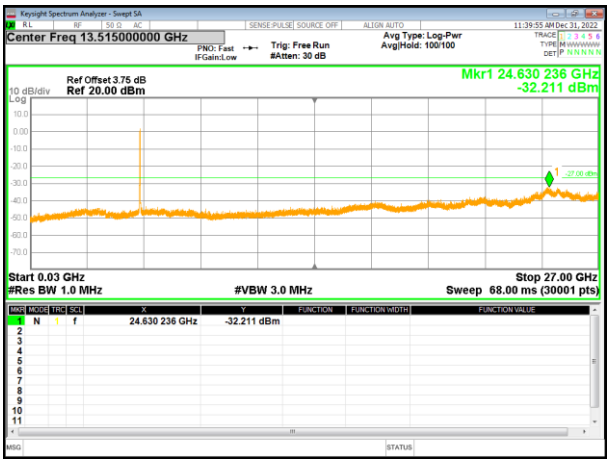


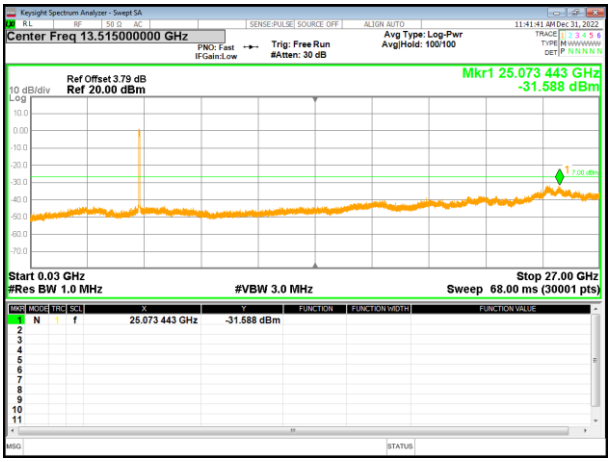
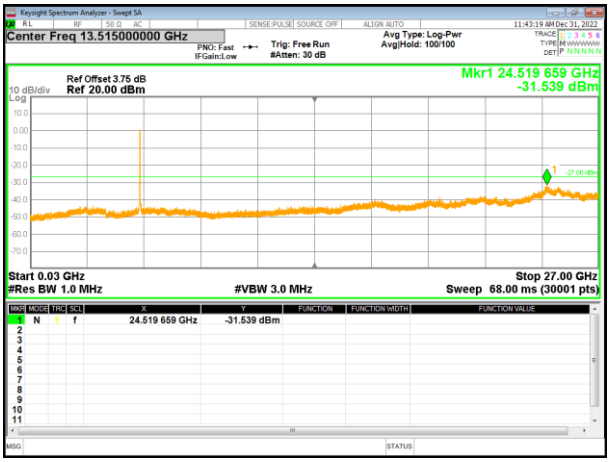
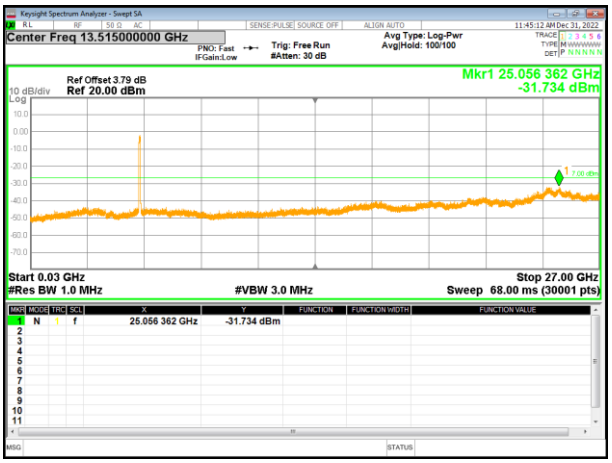
802.11n20 on channel 40



802.11n20 on channel 48

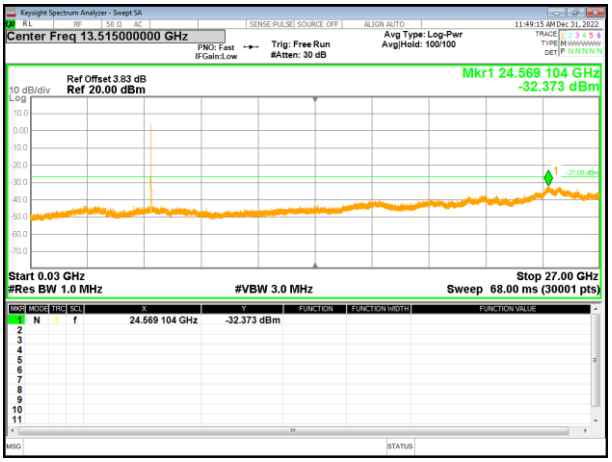


802.11ac20 on channel 36	802.11ac20 on channel 40
	
802.11ac20 on channel 48	
	/
802.11n40 on channel 38	**802.11n40 on channel 46**
	

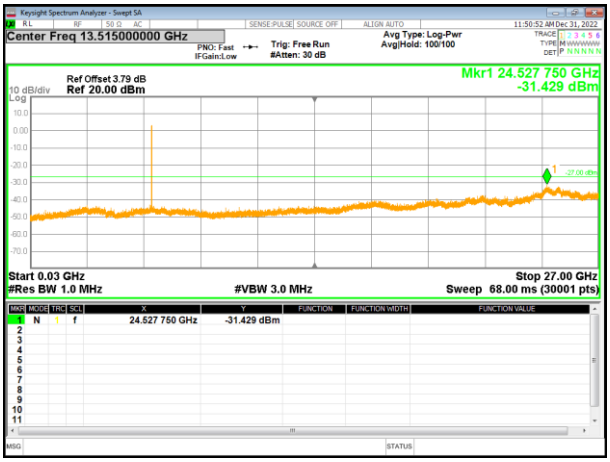
802.11ac40 on channel 38	802.11ac40 on channel 46
	
802.11ac80 on channel 42	
	/

5745-5825MHz

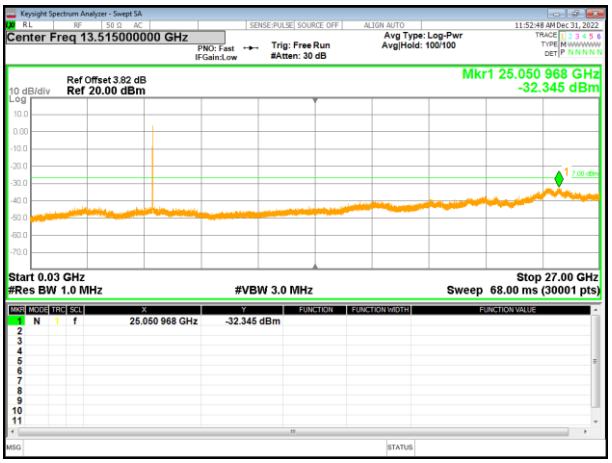
802.11a on channel 149



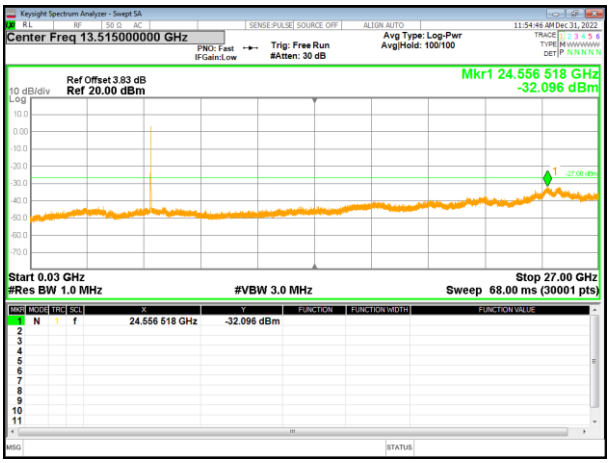
802.11a on channel 157



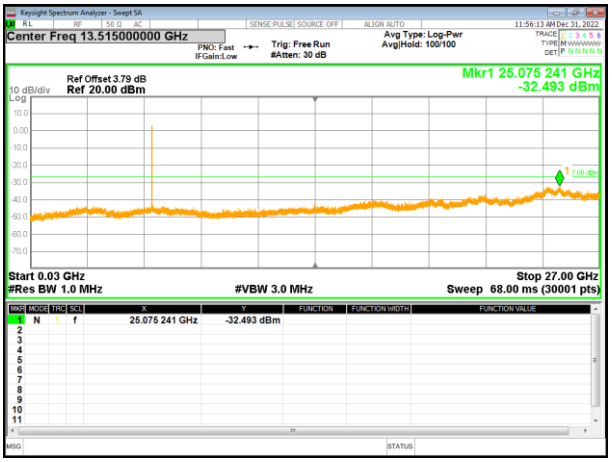
802.11a on channel 165



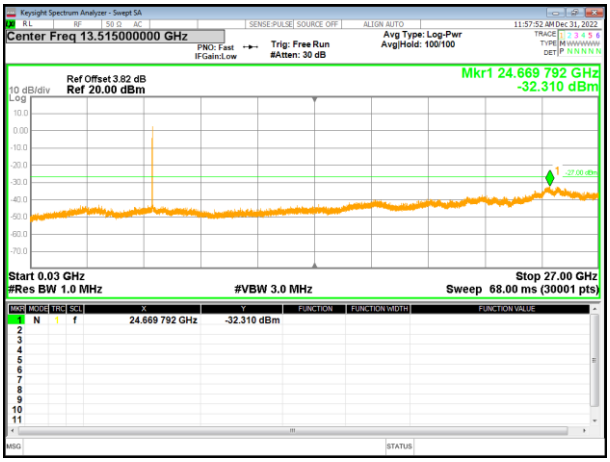
802.11n20 on channel 149



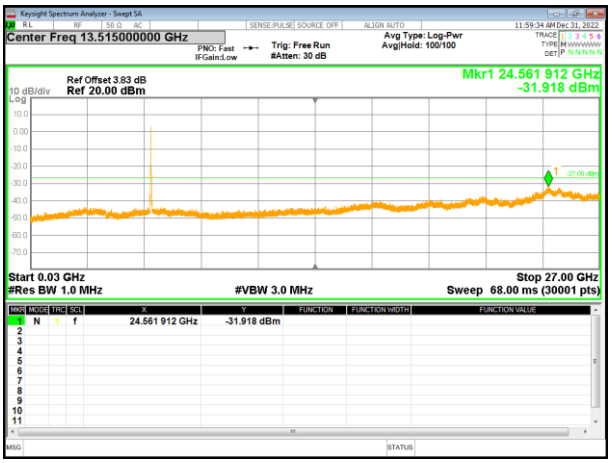
802.11n20 on channel 157



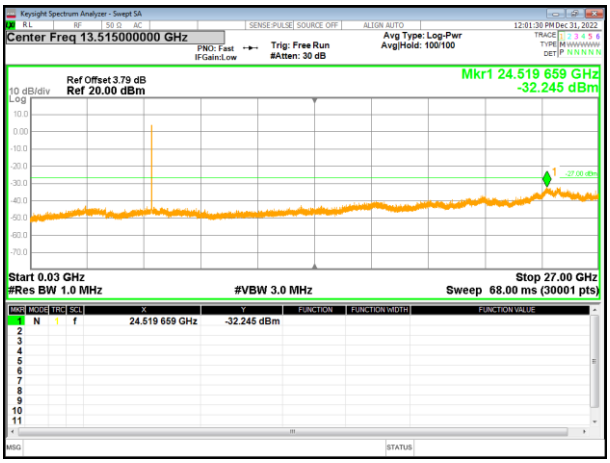
802.11n20 on channel 165



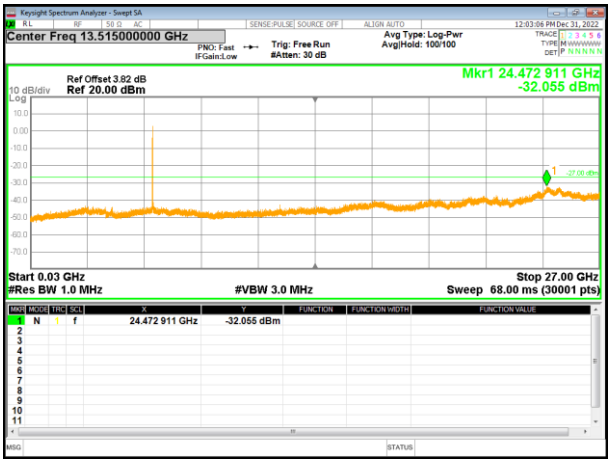
802.11ac20 on channel 149



802.11ac20 on channel 157



802.11ac20 on channel 165



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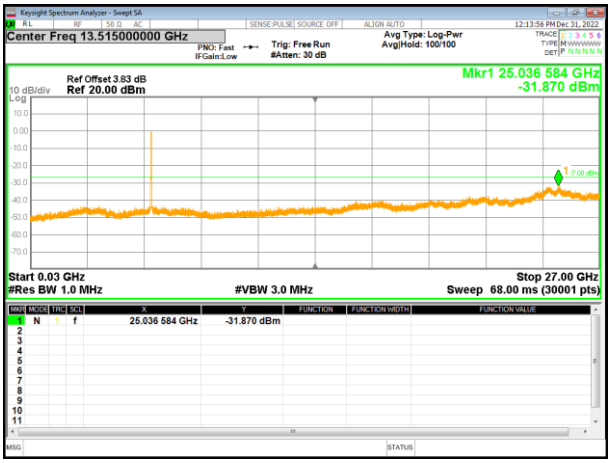
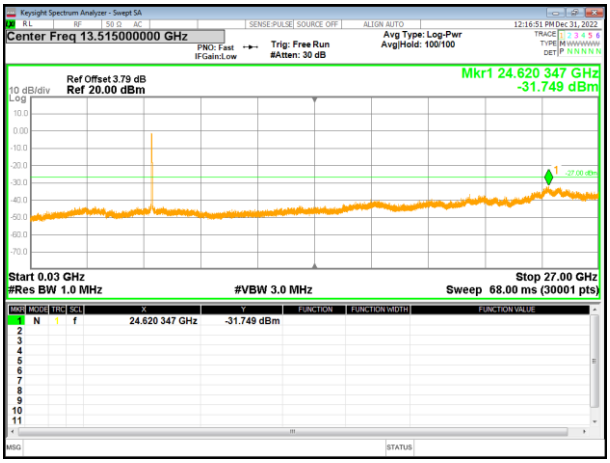
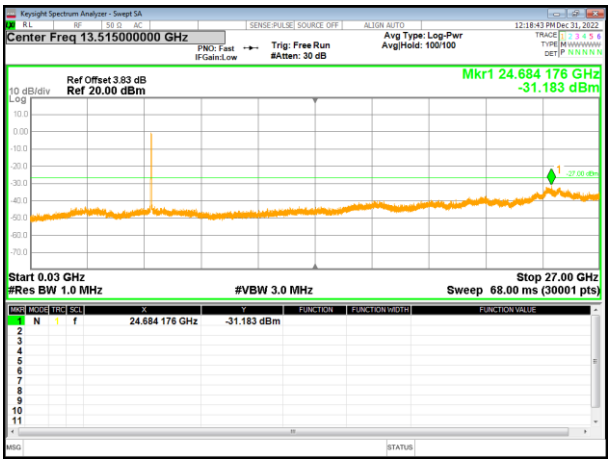
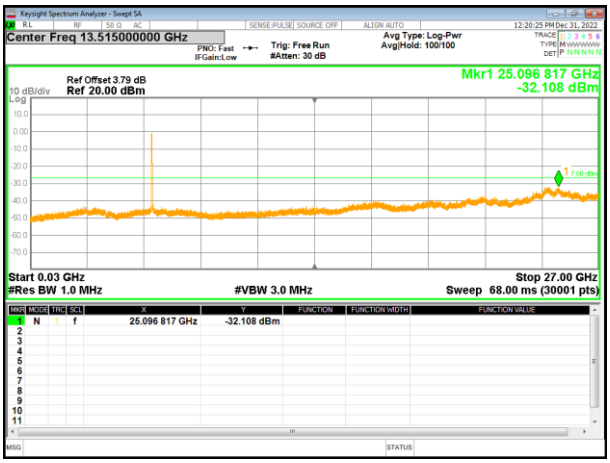
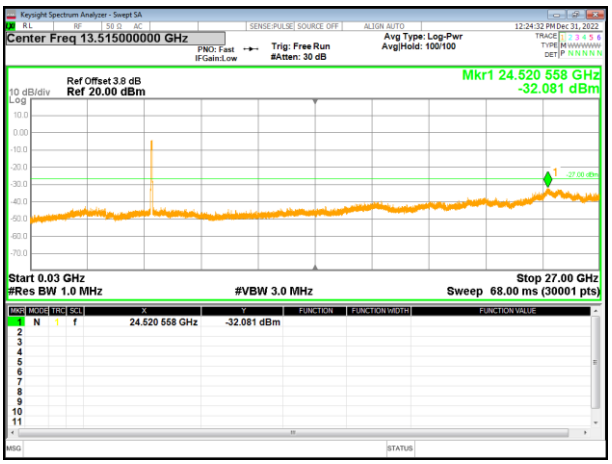
802.11n40 on channel 151

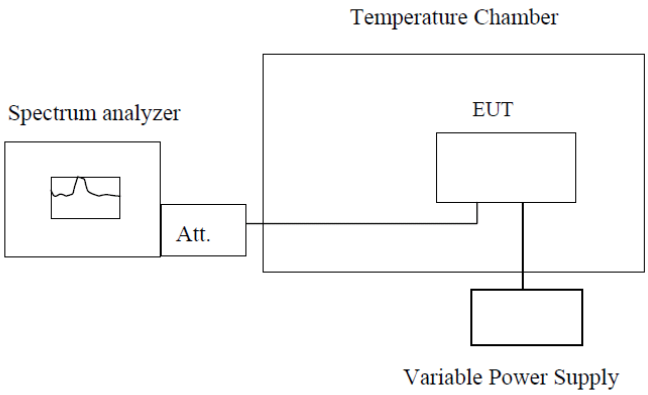


802.11n40 on channel 159



802.11ac40 on channel 151	802.11ac40 on channel 159
	
802.11ac80 on channel 155	
	/

4.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	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
Test Procedure:	a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. 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. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minute s. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Measurement data:

Frequency stability versus Temp.					
Power Supply: DC7.4V					
Temp. (°C)	Operating Frequency (MHz)	0 minute	2 minute	5 minute	10 minute
		Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)
-30	5180	5179.981	5179.993	5179.985	5179.984
	5190	5189.992	5189.984	5189.976	5179.984
	5200	5199.983	5199.992	5199.984	5189.980
	5210	5209.984	5209.984	5209.976	5199.975
	5220	5219.991	5220.005	5219.997	5209.981
	5230	5230.009	5229.983	5229.975	5219.976
	5240	5239.981	5240.001	5239.993	5229.974
-20	5180	5179.683	5179.948	5179.683	5179.961
	5190	5189.682	5189.944	5189.682	5189.956
	5200	5199.675	5199.939	5199.675	5199.951
	5210	5209.664	5209.945	5209.664	5209.957
	5220	5219.674	5219.939	5219.674	5219.952
	5230	5299.667	5229.937	5299.667	5229.950
	5240	5179.683	5179.948	5239.675	5239.923
-10	5180	5179.998	5179.961	5179.662	5179.927
	5190	5189.994	5189.956	5189.673	5189.938
	5200	5199.989	5199.951	5199.663	5199.929
	5210	5209.995	5209.957	5209.663	5209.930
	5220	5219.990	5219.952	5219.670	5219.936
	5230	5229.988	5229.950	5229.687	5229.954
	5240	5239.961	5239.923	5239.659	5239.926
0	5180	5179.993	5179.993	5179.985	5179.936
	5190	5189.984	5189.984	5189.976	5189.966
	5200	5199.992	5199.992	5199.984	5199.991
	5210	5209.984	5209.984	5209.976	5209.975
	5220	5220.005	5220.005	5219.997	5219.966
	5230	5229.983	5229.983	5229.975	5229.994
	5240	5240.001	5240.001	5239.993	5239.982
10	5180	5179.948	5239.675	5179.985	5179.936
	5190	5179.961	5179.662	5189.976	5189.966
	5200	5189.956	5189.673	5199.984	5199.991
	5210	5199.951	5199.663	5209.976	5209.975
	5220	5209.957	5209.663	5219.997	5219.966
	5230	5219.952	5219.670	5229.975	5229.994
	5240	5229.950	5229.687	5239.993	5239.982

20	5180	5179.988	5180.011	5179.984	5179.984
	5190	5189.984	5180.117	5189.985	5189.983
	5200	5199.992	5199.992	5199.976	5199.977
	5210	5209.985	5210.017	5299.984	5209.967
	5220	5220.005	5219.995	5219.976	5219.977
	5230	5229.983	5230.010	5229.996	5299.975
	5240	5240.001	5240.003	5239.975	5239.979
30	5180	5179.985	5179.936	5179.985	5180.011
	5190	5189.976	5189.966	5189.976	5180.117
	5200	5199.984	5199.991	5199.984	5199.992
	5210	5209.976	5209.975	5209.976	5210.017
	5220	5219.997	5219.966	5219.997	5219.995
	5230	5229.975	5229.994	5229.975	5230.010
	5240	5239.993	5239.982	5239.993	5240.003
40	5180	5179.993	5179.992	5179.771	5179.963
	5190	5189.984	5189.993	5199.943	5189.974
	5200	5199.992	5199.984	5199.941	5199.965
	5210	5209.984	5299.992	5209.996	5209.966
	5220	5220.005	5219.984	5219.985	5219.973
	5230	5229.983	5230.005	5229.972	5229.991
	5240	5240.001	5239.983	5239.989	5239.963
50	5180	5180.002	5180.002	5179.985	5179.988
	5190	5189.998	5189.998	5189.976	5189.984
	5200	5199.993	5199.993	5199.984	5199.992
	5210	5209.999	5209.999	5209.976	5209.985
	5220	5219.994	5219.994	5219.997	5220.005
	5230	5229.992	5229.992	5229.975	5229.983
	5240	5239.965	5239.965	5239.993	5240.001

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (VAC)	Operating Frequency (MHz)	0 minute	2 minute	5 minute	10 minute
		Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)
6.29	5180	5179.963	5180.011	5179.985	5179.984
	5190	5189.974	5180.117	5189.976	5189.985
	5200	5199.964	5199.992	5199.984	5199.976
	5210	5209.966	5210.017	5209.976	5299.984
	5220	5219.973	5219.995	5219.997	5219.976
	5230	5229.996	5230.010	5229.975	5229.996
	5240	5239.963	5240.003	5239.989	5239.975
7.4	5180	5179.988	5180.011	5179.984	5179.984
	5190	5189.984	5180.117	5189.985	5189.983
	5200	5199.992	5199.992	5199.976	5199.977
	5210	5209.985	5210.017	5299.984	5209.967
	5220	5220.005	5219.995	5219.976	5219.977
	5230	5229.983	5230.010	5229.996	5299.975
	5240	5240.001	5240.003	5239.975	5239.979
8.51	5180	5180.011	5179.936	5179.973	5179.963
	5190	5180.117	5189.966	5189.984	5189.974
	5200	5199.992	5199.991	5199.975	5199.964
	5210	5210.017	5209.975	5209.976	5209.966
	5220	5219.995	5219.966	5219.983	5219.973
	5230	5230.010	5229.994	5230.001	5229.996
	5240	5180.011	5239.982	5239.973	5239.963

Frequency stability versus Temp.					
Power Supply: DC7.4V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5745	5744.996	5745.009	5744.987	5744.966
	5755	5755.010	5754.982	5755.001	5754.985
	5775	5774.995	5775.005	5774.986	5774.965
	5785	5784.982	5785.005	5784.973	5784.992
	5795	5794.976	5794.996	5794.967	5794.984
	5825	5825.010	5825.011	5825.001	5824.993
-20	5745	5744.987	5744.596	5744.971	5744.977
	5755	5754.989	5754.980	5754.996	5754.991
	5775	5774.992	5774.981	5774.977	5774.976
	5785	5784.984	5784.984	5784.986	5784.963
	5795	5794.975	5794.967	5794.984	5794.957
	5825	5824.984	5824.963	5824.994	5824.991
-10	5745	5744.986	5744.986	5744.987	5744.596
	5755	5755.012	5754.993	5754.989	5754.980
	5775	5775.008	5775.010	5774.992	5774.981
	5785	5784.992	5784.986	5784.984	5784.984
	5795	5794.981	5794.982	5794.975	5794.967
	5825	5824.916	5824.984	5824.984	5824.963
0	5745	5744.996	5745.010	5744.987	5744.967
	5755	5754.990	5754.982	5754.989	5754.993
	5775	5774.995	5775.005	5774.992	5774.989
	5785	5784.982	5785.005	5784.984	5784.973
	5795	5794.976	5794.995	5794.975	5794.962
	5825	5825.010	5825.015	5824.984	5824.897
10	5745	5744.996	5744.985	5744.976	5744.962
	5755	5754.998	5755.002	5754.983	5754.974
	5775	5775.001	5775.003	5774.975	5774.991
	5785	5784.993	5784.985	5784.967	5784.967
	5795	5794.984	5795.002	5794.974	5794.963
	5825	5824.996	5825.000	5824.903	5824.966
20	5745	5744.996	5745.010	5744.985	5744.966
	5755	5755.010	5754.982	5755.001	5754.985
	5775	5774.995	5775.005	5774.986	5774.965
	5785	5784.982	5785.005	5784.973	5784.992
	5795	5794.976	5794.996	5794.967	5794.984
	5825	5825.010	5825.011	5825.001	5824.993
30	5745	5744.986	5744.996	5744.970	5744.991
	5755	5754.993	5754.998	5754.993	5754.963
	5775	5775.010	5775.001	5774.994	5774.986
	5785	5784.986	5784.993	5784.976	5784.986
	5795	5794.982	5794.984	5794.993	5794.977
	5825	5824.985	5824.993	5824.991	5824.992
40	5745	5744.996	5744.980	5744.987	5744.960
	5755	5755.010	5755.005	5754.989	5754.993
	5775	5774.995	5774.986	5774.992	5774.989
	5785	5784.982	5784.995	5784.984	5784.973

	5795	5794.976	5794.993	5794.975	5794.962
	5825	5825.010	5825.003	5824.984	5824.897
50	5745	5744.996	5745.010	5744.987	5744.966
	5755	5754.990	5754.982	5755.000	5754.985
	5775	5774.995	5775.005	5774.986	5774.965
	5785	5784.982	5785.005	5784.973	5784.993
	5795	5794.976	5794.995	5794.967	5794.984
	5825	5825.010	5825.015	5825.001	5824.993

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (VAC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
6.29	5745	5744.961	5744.985	5744.976	5744.986
	5755	5754.986	5754.992	5754.993	5754.993
	5775	5774.967	5774.984	5774.994	5775.010
	5785	5784.976	5784.976	5784.976	5784.986
	5795	5794.974	5794.983	5794.994	5794.982
	5825	5824.984	5824.912	5824.991	5824.984
7.4	5745	5744.987	5744.966	5744.977	5744.966
	5755	5755.000	5754.985	5754.984	5754.955
	5775	5774.986	5774.965	5775.001	5774.966
	5785	5784.973	5784.993	5784.977	5784.973
	5795	5794.967	5794.984	5794.973	5794.991
	5825	5825.001	5824.993	5824.976	5824.983
8.51	5745	5744.996	5745.009	5744.987	5744.966
	5755	5755.010	5754.982	5755.001	5744.996
	5775	5774.995	5775.005	5774.986	5754.998
	5785	5784.982	5785.005	5784.973	5775.001
	5795	5794.976	5794.996	5794.967	5784.993
	5825	5825.010	5825.011	5825.001	5794.984

5 Test Setup Photo

Reference to the **appendix I** for details.

6 EUT Constructional Details

Reference to the **appendix II** for details.

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