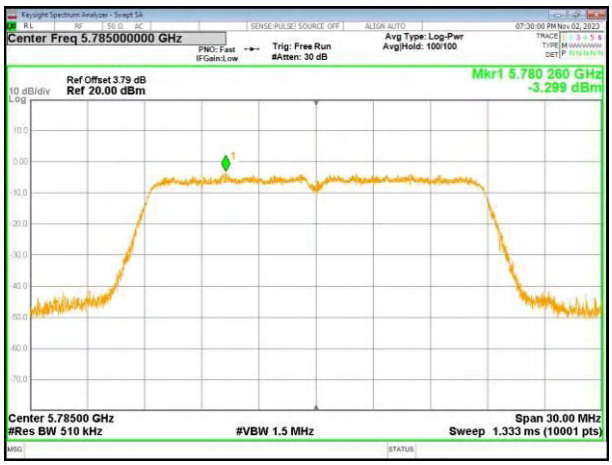
(802.11ac20) PSD plot on channel 149

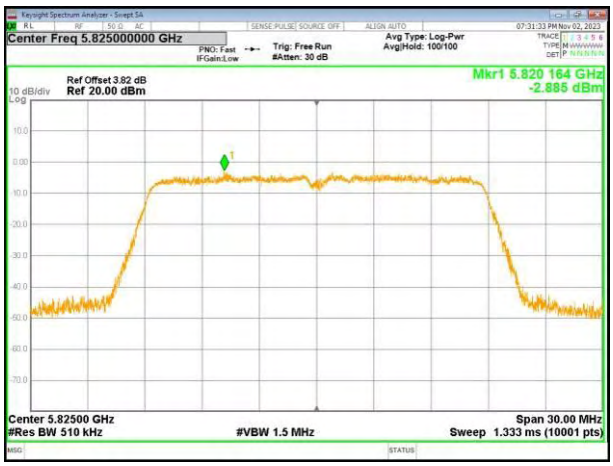
(802.11n40) PSD plot on channel 151

(802.11ac20) PSD plot on channel 157



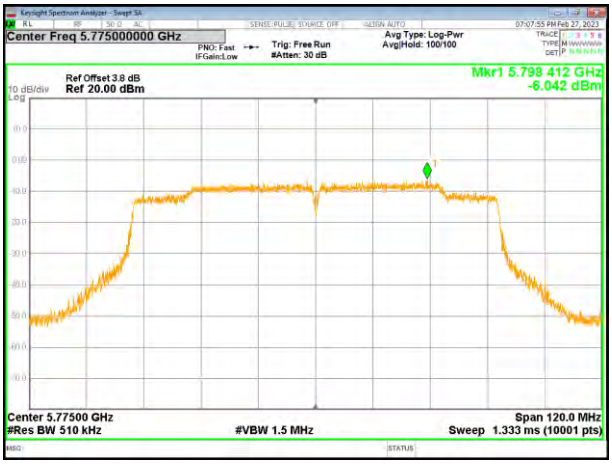
(802.11n40) PSD plot on channel 159

(802.11ac20) PSD plot on channel 165

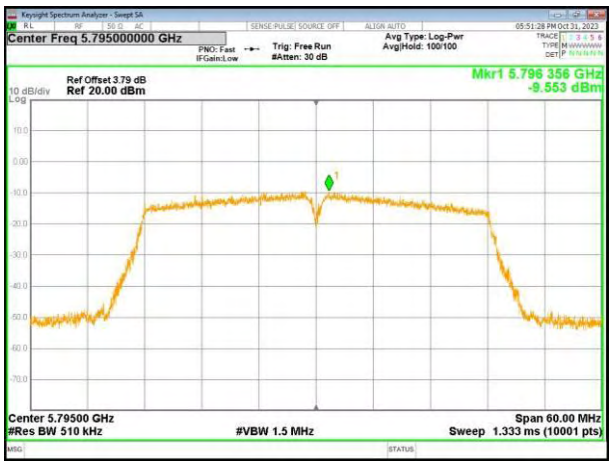


(802.11ac40) PSD plot on channel 151

(802.11ac80) PSD plot on channel 155

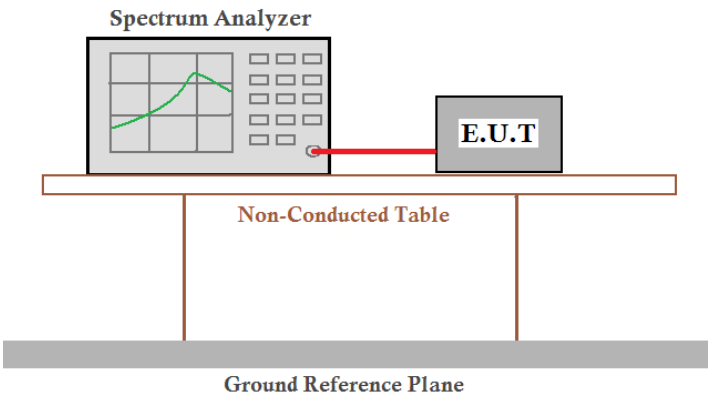


(802.11ac40) PSD plot on channel 159



4.7 Band edge

4.7.1 Conducted test Method

Test Requirement:	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 environment:	Temp.: 25.8°C	Humid.: 51%RH
Test voltage:	DC 7.7V	
Test results:	Pass	

5.180~5.240 GHz

(802.11a) Band Edge, Left Side

(802.11n20) Band Edge, Left Side

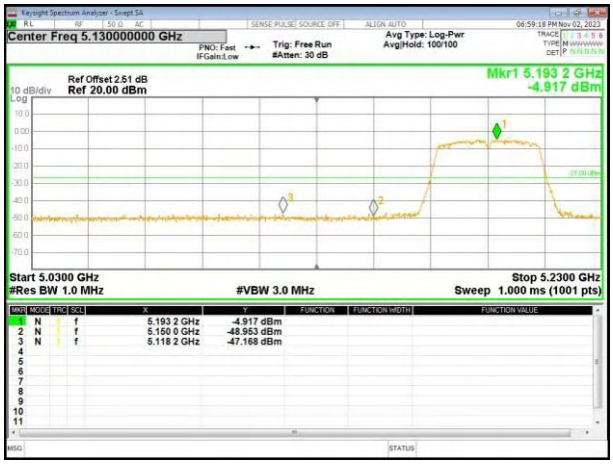
(802.11a) Band Edge, Right Side

(802.11n20) Band Edge, Right Side

5.180~5.240 GHz

(802.11ac20) Band Edge, Left Side

(802.11n40) Band Edge, Left Side

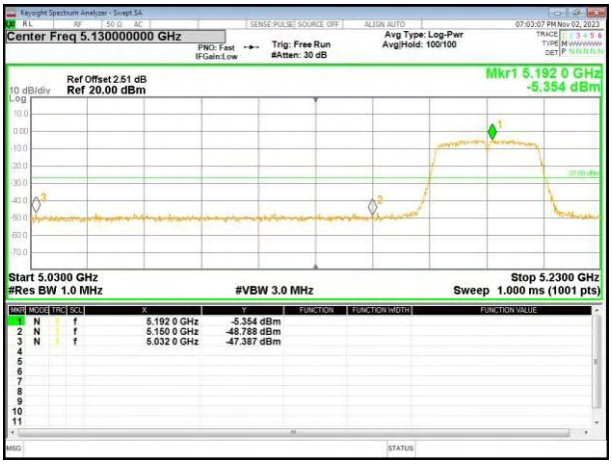


(802.11ac20) Band Edge, Right Side

(802.11n40) Band Edge, Right Side

5.180~5.240 GHz

(802.11ac40) Band Edge, Left Side



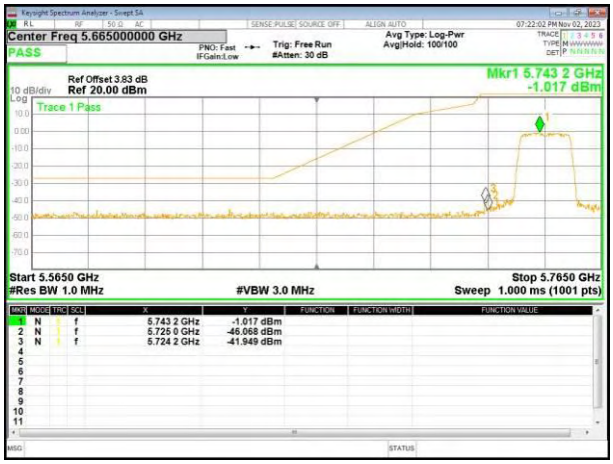
(802.11ac80) Band Edge

(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

5.745~5.825 GHz

(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

4.8 Spurious Emission

4.8.1 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

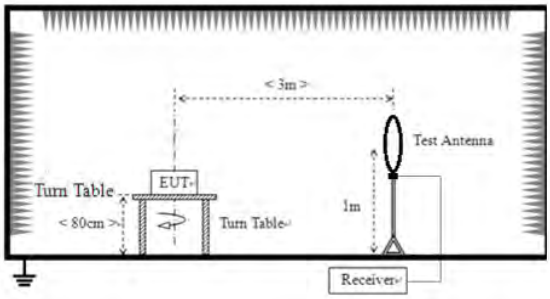
Limit:

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	

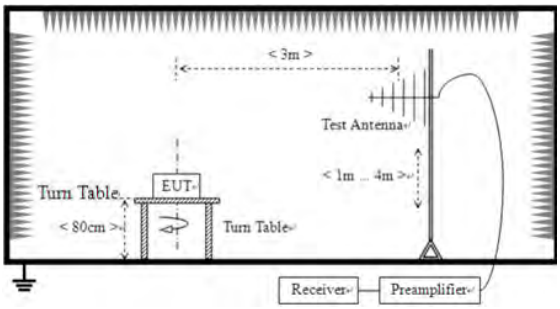
Frequency	Limit (dBm/MHz)	Remark
Above 1GHz	-27.0	Peak Value

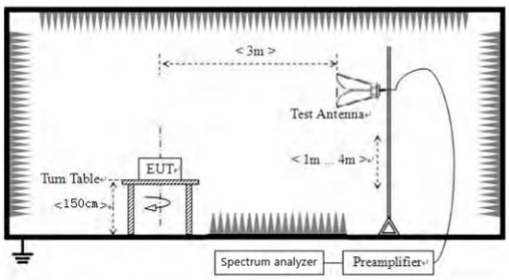
Test setup:

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. 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

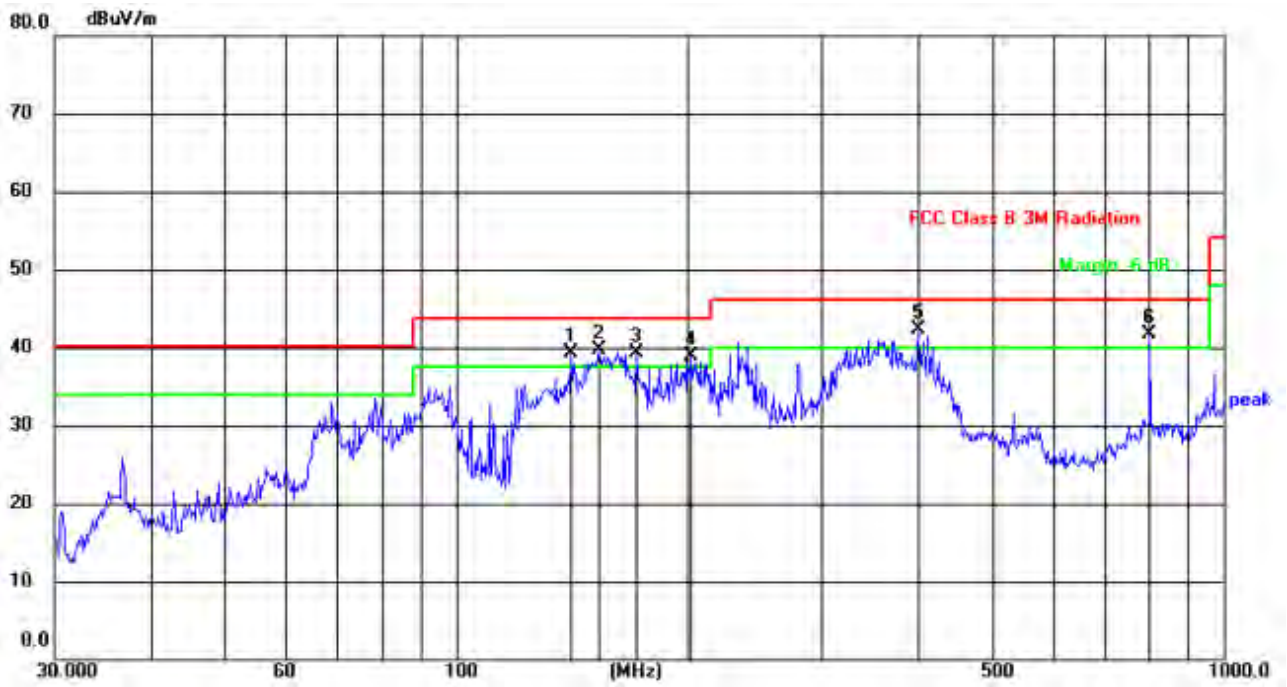
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Below 1GHz

Remark: The test data shows only the worst case 802.11n20 mode.

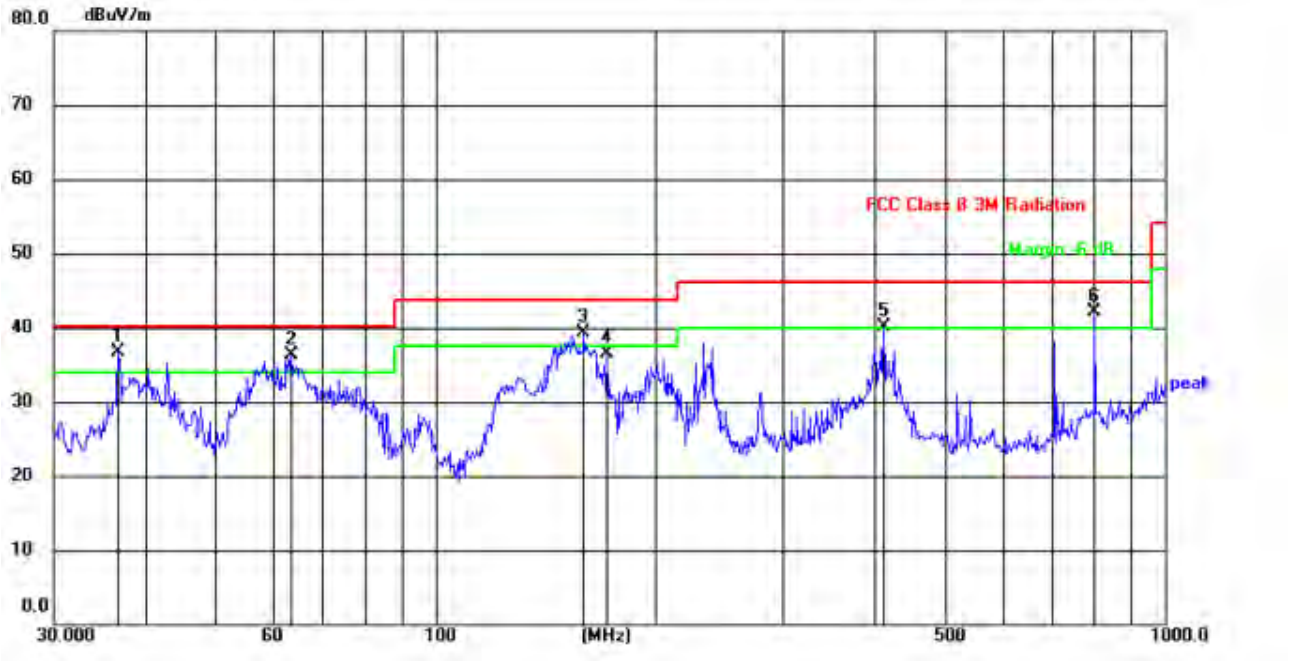
Temperature:	26.2℃	Relative Humidity:	51%
Pressure:	101.2kPar	Test Voltage :	DC 7.7V
Test Mode :	5.8G TX- 802.11n20 (5825MHz)		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	141.3296	60.84	-21.48	39.36	43.50	-4.14	QP
2	153.7384	60.16	-20.52	39.64	43.50	-3.86	QP
3	171.9944	60.59	-21.26	39.33	43.50	-4.17	QP
4	202.8103	62.23	-23.41	38.82	43.50	-4.68	QP
5	400.4318	59.52	-17.28	42.24	46.00	-3.76	QP
6	801.7862	48.19	-6.49	41.70	46.00	-4.30	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.7661	58.18	-21.44	36.74	40.00	-3.26	QP
2	63.5356	59.51	-23.11	36.40	40.00	-3.60	QP
3	159.7844	59.82	-20.58	39.24	43.50	-4.26	QP
4	171.9944	57.84	-21.26	36.58	43.50	-6.92	QP
5	411.8240	56.98	-16.81	40.17	46.00	-5.83	QP
6	801.7862	48.67	-6.49	42.18	46.00	-3.82	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:	26.2℃	Relative Humidity:	51%
Pressure:	101.2kPar	Test Voltage :	DC 7.7V
Test Mode :	5.2G TX- 802.11a		

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB	
Low Channel:5180MHz									
V	10360.00	47.53	46.20	8.27	38.50	48.10	68.20	-20.10	PK
V	10360.00	38.16	46.20	8.27	38.50	38.73	54.00	-15.27	AV
V	15540.00	44.81	46.30	10.35	38.70	47.56	74.00	-26.44	PK
V	15540.00	35.40	46.30	10.35	38.70	38.15	54.00	-15.85	AV
V	20720.00	53.35	57.40	11.93	37.80	45.68	68.20	-22.52	PK
V	20720.00	43.94	57.40	11.93	37.80	36.27	54.00	-17.73	AV
V	25900.00	51.14	56.50	13.45	39.70	47.79	68.20	-20.41	PK
V	25900.00	41.36	56.50	13.45	39.70	38.01	54.00	-15.99	AV
H	10360.00	47.45	46.20	8.27	38.50	48.02	68.20	-20.18	PK
H	10360.00	36.87	46.20	8.27	38.50	37.44	54.00	-16.56	AV
H	15540.00	43.89	46.30	10.35	38.70	46.64	74.00	-27.36	PK
H	15540.00	33.11	46.30	10.35	38.70	35.86	54.00	-18.14	AV
H	20720.00	55.43	57.40	11.93	37.80	47.76	68.20	-20.44	PK
H	20720.00	44.78	57.40	11.93	37.80	37.11	54.00	-16.89	AV
H	25900.00	52.10	56.50	13.45	39.70	48.75	68.20	-19.45	PK
H	25900.00	41.39	56.50	13.45	39.70	38.04	54.00	-15.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:5200MHz									
V	10400.00	46.64	46.20	8.27	38.50	47.21	68.20	-20.99	PK
V	10400.00	37.93	46.20	8.27	38.50	38.50	54.00	-15.50	AV
V	15600.00	45.11	46.30	10.35	38.40	47.56	74.00	-26.44	PK
V	15600.00	36.83	46.30	10.35	38.40	39.28	54.00	-14.72	AV
V	20800.00	54.49	57.40	11.93	37.80	46.82	68.20	-21.38	PK
V	20800.00	45.37	57.40	11.93	37.80	37.70	54.00	-16.30	AV
V	26000.00	49.91	56.50	13.45	39.80	46.66	68.20	-21.54	PK
V	26000.00	42.52	56.50	13.45	39.80	39.27	54.00	-14.73	AV
H	10400.00	47.20	46.20	8.27	38.50	47.77	68.20	-20.43	PK
H	10400.00	38.18	46.20	8.27	38.50	38.75	54.00	-15.25	AV
H	15600.00	45.09	46.30	10.35	38.40	47.54	74.00	-26.46	PK
H	15600.00	36.83	46.30	10.35	38.40	39.28	54.00	-14.72	AV
H	20800.00	53.50	57.40	11.93	37.80	45.83	68.20	-22.37	PK
H	20800.00	43.40	57.40	11.93	37.80	35.73	54.00	-18.27	AV
H	26000.00	49.65	56.50	13.45	39.80	46.40	68.20	-21.80	PK
H	26000.00	41.77	56.50	13.45	39.80	38.52	54.00	-15.48	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
High Channel:5240MHz									
V	10480.00	43.64	46.20	8.27	38.60	44.31	68.20	-23.89	PK
V	10480.00	34.23	46.20	8.27	38.60	34.90	54.00	-19.10	AV
V	15720.00	41.36	46.30	10.35	38.40	43.81	74.00	-30.19	PK
V	15720.00	32.11	46.30	10.35	38.40	34.56	54.00	-19.44	AV
V	20960.00	50.85	57.40	11.93	37.50	42.88	68.20	-25.32	PK
V	20960.00	42.80	57.40	11.93	37.50	34.83	54.00	-19.17	AV
V	26200.00	47.08	56.50	13.45	40.10	44.13	68.20	-24.07	PK
V	26200.00	38.23	56.50	13.45	40.10	35.28	54.00	-18.72	AV
H	10480.00	43.87	46.20	8.27	38.60	44.54	68.20	-23.66	PK
H	10480.00	34.23	46.20	8.27	38.60	34.90	54.00	-19.10	AV
H	15720.00	41.66	46.30	10.35	38.40	44.11	74.00	-29.89	PK
H	15720.00	32.20	46.30	10.35	38.40	34.65	54.00	-19.35	AV
H	20960.00	51.03	57.40	11.93	37.50	43.06	68.20	-25.14	PK
H	20960.00	42.70	57.40	11.93	37.50	34.73	54.00	-19.27	AV
H	26200.00	46.80	56.50	13.45	40.10	43.85	68.20	-24.35	PK
H	26200.00	37.64	56.50	13.45	40.10	34.69	54.00	-19.31	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.

Temperature:	26.2℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 7.7V
Test Mode :	5.8G TX- 802.11a		

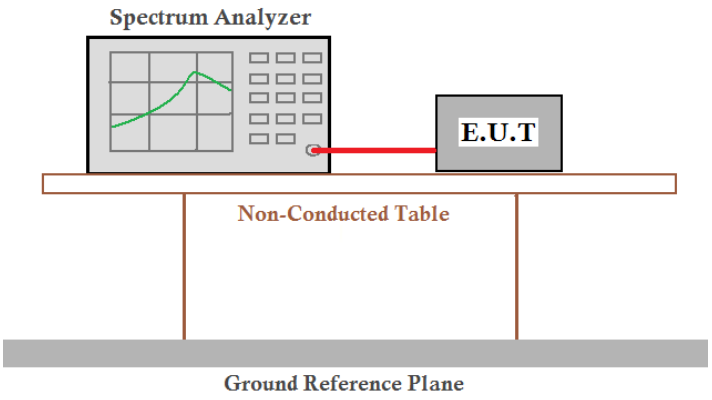
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenn Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Typ
Low Channel:5745MHz									
V	11490.00	43.01	46.10	8.77	39.10	44.78	74.00	-29.22	PK
V	11490.00	35.60	46.10	8.77	39.10	37.37	54.00	-16.63	AV
V	17235.00	40.82	47.60	11.10	38.70	43.02	68.20	-25.18	PK
V	17235.00	34.19	47.60	11.10	38.70	36.39	54.00	-17.61	AV
V	22980.00	48.75	56.90	12.73	37.70	42.28	74.00	-31.72	PK
V	22980.00	41.47	56.90	12.73	37.70	35.00	54.00	-19.00	AV
V	28725.00	45.85	55.60	14.25	40.30	44.80	68.20	-23.40	PK
V	28725.00	38.12	55.60	14.25	40.30	37.07	54.00	-16.93	AV
H	11490.00	43.45	46.10	8.77	39.10	45.22	74.00	-28.78	PK
H	11490.00	35.44	46.10	8.77	39.10	37.21	54.00	-16.79	AV
H	17235.00	41.75	47.60	11.10	38.70	43.95	68.20	-24.25	PK
H	17235.00	34.56	47.60	11.10	38.70	36.76	54.00	-17.24	AV
H	22980.00	50.76	56.90	12.73	37.70	44.29	74.00	-29.71	PK
H	22980.00	41.26	56.90	12.73	37.70	34.79	54.00	-19.21	AV
H	28725.00	47.64	55.60	14.25	40.30	46.59	68.20	-21.61	PK
H	28725.00	38.69	55.60	14.25	40.30	37.64	54.00	-16.36	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	42.84	46.10	8.77	39.10	44.61	74.00	-29.39	PK
V	11570.00	35.43	46.10	8.77	39.10	37.20	54.00	-16.80	AV
V	17355.00	40.65	47.60	11.10	38.70	42.85	68.20	-25.35	PK
V	17355.00	33.99	47.60	11.10	38.70	36.19	54.00	-17.81	AV
V	23140.00	48.59	56.90	12.73	37.70	42.12	74.00	-31.88	PK
V	23140.00	41.30	56.90	12.73	37.70	34.83	54.00	-19.17	AV
V	28925.00	45.68	55.60	14.25	40.30	44.63	68.20	-23.57	PK
V	28925.00	37.94	55.60	14.25	40.30	36.89	54.00	-17.11	AV
H	11570.00	43.28	46.10	8.77	39.10	45.05	74.00	-28.95	PK
H	11570.00	35.26	46.10	8.77	39.10	37.03	54.00	-16.97	AV
H	17355.00	41.58	47.60	11.10	38.70	43.78	68.20	-24.42	PK
H	17355.00	34.39	47.60	11.10	38.70	36.59	54.00	-17.41	AV
H	23140.00	50.58	56.90	12.73	37.70	44.11	74.00	-29.89	PK
H	23140.00	41.10	56.90	12.73	37.70	34.63	54.00	-19.37	AV
H	28925.00	47.47	55.60	14.25	40.30	46.42	68.20	-21.78	PK
H	28925.00	38.52	55.60	14.25	40.30	37.47	54.00	-16.53	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	43.84	46.10	8.77	39.10	45.61	74.00	-28.39	PK
V	11650.00	35.60	46.10	8.77	39.10	37.37	54.00	-16.63	AV
V	17475.00	41.90	47.90	11.23	38.90	44.13	68.20	-24.07	PK
V	17475.00	34.93	47.90	11.23	38.90	37.16	54.00	-16.84	AV
V	23300.00	50.70	57.10	12.73	37.80	44.13	68.20	-24.07	PK
V	23300.00	42.14	57.10	12.73	37.80	35.57	54.00	-18.43	AV
V	29125.00	47.72	55.80	14.25	40.50	46.67	68.20	-21.53	PK
V	29125.00	39.66	55.80	14.25	40.50	38.61	54.00	-15.39	AV
H	11650.00	45.66	46.10	8.77	39.10	47.43	74.00	-26.57	PK
H	11650.00	37.77	46.10	8.77	39.10	39.54	54.00	-14.46	AV
H	17475.00	43.00	47.90	11.23	38.90	45.23	68.20	-22.97	PK
H	17475.00	36.10	47.90	11.23	38.90	38.33	54.00	-15.67	AV
H	23300.00	51.96	57.10	12.73	37.80	45.39	68.20	-22.81	PK
H	23300.00	43.47	57.10	12.73	37.80	36.90	54.00	-17.10	AV
H	29125.00	48.68	55.80	14.25	40.50	47.63	68.20	-20.57	PK
H	29125.00	40.32	55.80	14.25	40.50	39.27	54.00	-14.73	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.

4.8.2 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 environment:	Temp.: 25.8°C	Humid.: 51%RH
Test voltage:	DC 7.7V	
Test results:	Pass	

5180-5240MHz

Test Plot

802.11a on channel 36

802.11a on channel 40

802.11a on channel 48

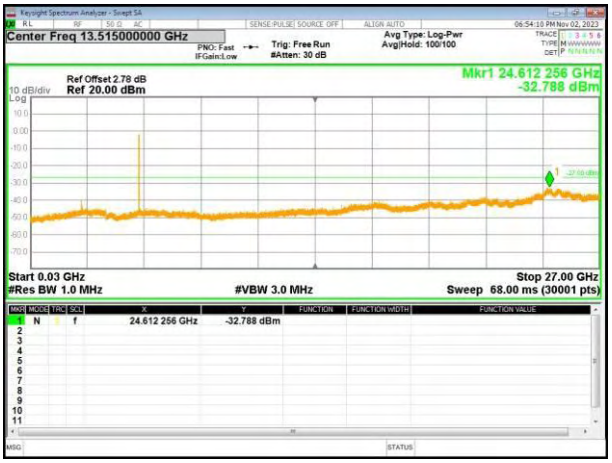
802.11n20 on channel 36

802.11n20 on channel 40

802.11n20 on channel 48

Test Plot

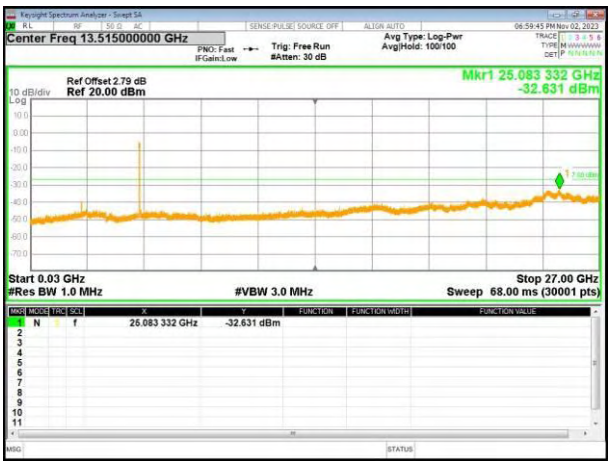
802.11ac20 on channel 36



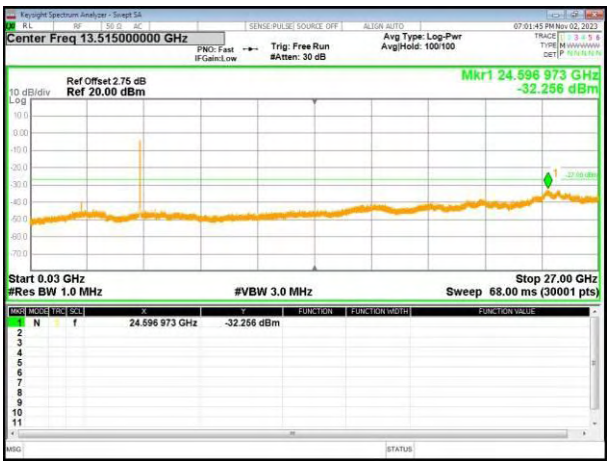
802.11ac20 on channel 40

802.11ac20 on channel 48

802.11n40 on channel 38



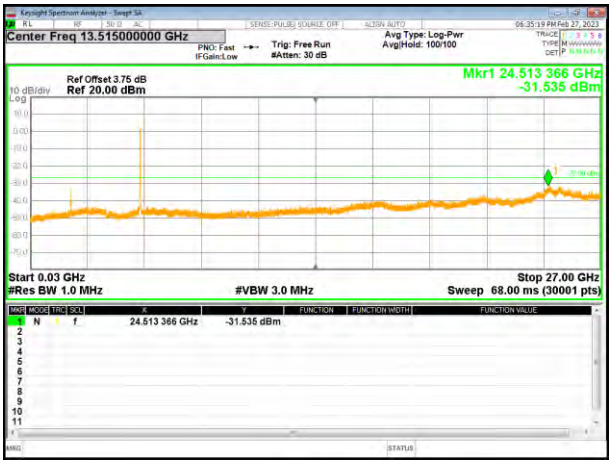
802.11n40 on channel 46



Test Plot

802.11ac40 on channel 38

802.11ac40 on channel 46



802.11ac80 on channel 42

5745-5825MHz

Test Plot

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

Test Plot

802.11ac20 on channel 149

802.11ac20 on channel 157

802.11ac20 on channel 165

802.11n40 on channel 151

802.11n40 on channel 159

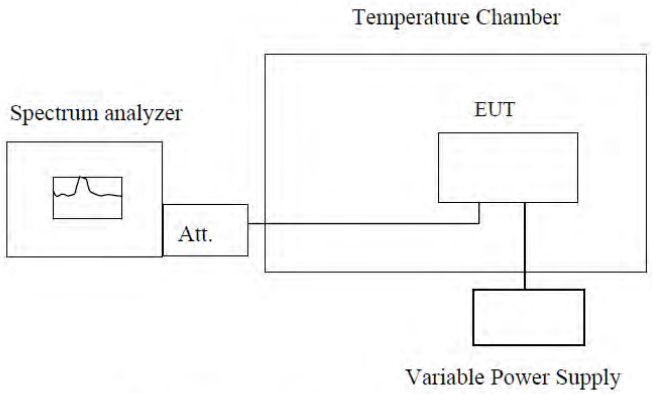
Test Plot

802.11ac40 on channel 151

802.11ac40 on channel 159

802.11ac80 on channel 155

4.9 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: DC 7.7V					
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	5179.969	5180.162	5179.683	5179.792
	5190	5189.959	5200.177	5199.557	5189.802
	5200	5199.962	5200.162	5199.582	5199.793
	5210	5209.968	5210.140	5209.559	5209.794
	5220	5219.963	5220.155	5219.574	5219.799
	5230	5229.961	5230.148	5229.565	5229.817
	5240	5239.934	5240.157	5239.573	5239.802
-20	5180	5179.962	5180.138	5179.568	5179.813
	5190	5189.953	5190.129	5189.567	5189.808
	5200	5199.961	5200.137	5199.560	5199.803
	5210	5209.953	5210.129	5209.549	5209.809
	5220	5219.974	5220.150	5219.559	5219.802
	5230	5229.952	5230.128	5299.550	5229.800
	5240	5239.970	5240.147	5239.559	5239.773
-10	5180	5179.971	5180.147	5179.547	5179.792
	5190	5189.967	5190.143	5189.558	5189.802
	5200	5199.962	5200.138	5199.548	5199.793
	5210	5209.968	5210.144	5209.548	5209.794
	5220	5219.963	5220.139	5219.555	5219.799
	5230	5229.961	5230.137	5229.571	5229.817
	5240	5239.934	5240.111	5239.543	5239.789
0	5180	5179.748	5180.126	5179.559	5179.803
	5190	5199.920	5190.137	5189.550	5189.803
	5200	5199.918	5200.128	5199.557	5199.794
	5210	5209.973	5210.129	5209.548	5299.798
	5220	5219.962	5220.136	5219.569	5219.792
	5230	5229.949	5230.154	5229.545	5229.813
	5240	5239.966	5240.127	5239.563	5239.791
10	5180	5179.950	5180.138	5179.568	5179.804
	5190	5189.961	5190.129	5189.564	5189.794
	5200	5199.952	5200.137	5199.558	5199.802

	5210	5209.953	5210.129	5209.563	5209.794
	5220	5219.960	5220.150	5219.558	5219.813
	5230	5229.978	5230.128	5229.554	5229.791
	5240	5239.963	5240.147	5239.527	5239.809
20	5180	5180.028	5179.391	5179.817	5179.566
	5190	5189.971	5190.180	5189.861	5189.830
	5200	5199.966	5200.171	5199.869	5199.855
	5210	5209.972	5300.182	5209.861	5209.839
	5220	5219.967	5220.171	5219.882	5219.829
	5230	5229.965	5230.192	5229.859	5229.857
	5240	5239.938	5240.171	5239.877	5239.845
30	5180	5179.954	5180.179	5179.870	5179.849
	5190	5189.965	5190.171	5189.861	5179.849
	5200	5199.956	5200.179	5199.869	5189.844
	5210	5209.957	5210.171	5209.861	5199.839
	5220	5219.964	5220.192	5219.882	5209.845
	5230	5229.982	5230.170	5229.859	5219.839
	5240	5239.954	5240.189	5239.877	5229.837
40	5180	5179.966	5180.178	5179.656	5179.828
	5190	5189.957	5190.180	5199.828	5189.838
	5200	5199.965	5200.171	5199.826	5199.829
	5210	5209.957	5300.182	5209.881	5209.830
	5220	5219.978	5220.171	5219.870	5219.836
	5230	5229.956	5230.192	5229.856	5229.854
	5240	5239.974	5240.171	5239.873	5239.826
50	5180	5179.966	5180.179	5179.870	5179.801
	5190	5189.957	5190.171	5189.861	5189.830
	5200	5199.965	5200.179	5199.869	5199.855
	5210	5209.957	5210.171	5209.861	5209.839
	5220	5219.978	5220.192	5219.882	5219.829
	5230	5229.956	5230.170	5229.859	5229.857
	5240	5239.974	5240.189	5239.877	5239.845

Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (VDC)	Operating Frequency (MHz)	0 minute	2 minute	5 minute	10 minute
		Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)	Measured Frequency (MHz)
6.545	5180	5179.975	5180.182	5179.870	5179.964
	5190	5189.971	5200.176	5189.861	5199.838
	5200	5199.966	5200.204	5199.869	5199.863
	5210	5209.972	5210.182	5209.861	5209.841
	5220	5219.967	5220.197	5219.882	5219.855
	5230	5229.965	5230.190	5229.859	5229.848
	5240	5239.938	5240.199	5239.873	5239.856
7.70	5180	5179.961	5180.197	5179.869	5179.849
	5190	5189.957	5180.303	5189.870	5189.847
	5200	5199.965	5200.179	5199.861	5199.841
	5210	5209.958	5210.204	5299.867	5209.831
	5220	5219.978	5220.182	5219.861	5219.840
	5230	5229.956	5230.197	5229.880	5299.836
	5240	5239.974	5240.191	5239.859	5239.842
8.855	5180	5179.975	5180.188	5179.858	5179.828
	5190	5189.971	5190.185	5189.869	5189.838
	5200	5199.966	5200.180	5199.860	5199.828
	5210	5209.972	5210.186	5209.861	5209.830
	5220	5219.967	5220.181	5219.868	5219.836
	5230	5229.965	5230.179	5229.885	5229.859
	5240	5239.938	5240.153	5239.857	5239.826

Frequency stability versus Temp.					
Power Supply: DC 7.7V					
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	5744.951	5745.189	5744.851	5744.814
	5755	5754.961	5755.196	5754.858	5754.802
	5775	5774.982	5775.189	5774.875	5774.813
	5785	5784.958	5785.181	5784.850	5784.819
	5795	5794.954	5795.188	5794.846	5794.837
	5825	5824.952	5825.118	5824.849	5824.828
-20	5745	5744.948	5745.200	5744.845	5744.825
	5755	5754.963	5755.202	5754.870	5754.838
	5775	5774.962	5775.206	5774.851	5774.823
	5785	5784.965	5785.198	5784.859	5784.809
	5795	5794.975	5795.189	5794.857	5794.803
	5825	5824.957	5825.199	5824.867	5824.836
-10	5745	5744.958	5745.190	5744.861	5744.444
	5755	5754.984	5755.197	5754.863	5754.827
	5775	5774.980	5775.215	5774.866	5774.828
	5785	5784.964	5785.191	5784.857	5784.830
	5795	5794.953	5795.187	5794.848	5794.813
	5825	5824.888	5825.190	5824.857	5824.808
0	5745	5744.952	5745.179	5744.861	5744.815
	5755	5754.977	5755.195	5754.863	5754.840
	5775	5774.958	5775.195	5774.866	5774.836
	5785	5784.967	5785.198	5784.857	5784.819
	5795	5794.965	5795.211	5794.848	5794.808
	5825	5824.975	5825.191	5824.857	5824.742
10	5745	5744.952	5745.189	5744.850	5744.810
	5755	5754.977	5755.206	5754.857	5754.821
	5775	5774.958	5775.208	5774.849	5774.838
	5785	5784.967	5785.190	5784.840	5784.813
	5795	5794.965	5795.207	5794.847	5794.809
	5825	5824.975	5825.206	5824.776	5824.811
20	5745	5744.968	5745.214	5744.859	5744.814
	5755	5754.982	5755.186	5754.875	5754.832
	5775	5774.967	5775.210	5774.860	5774.812
	5785	5784.954	5785.210	5784.846	5784.838
	5795	5794.948	5795.201	5794.840	5794.830
	5825	5824.982	5825.217	5824.874	5824.838
30	5745	5744.958	5745.200	5744.844	5744.839
	5755	5754.965	5755.202	5754.867	5754.810
	5775	5774.982	5775.206	5774.868	5774.833
	5785	5784.958	5785.198	5784.849	5784.832
	5795	5794.954	5795.189	5794.866	5794.823
	5825	5824.957	5825.199	5824.864	5824.837
40	5745	5744.968	5745.184	5744.861	5744.808
	5755	5754.982	5755.209	5754.863	5754.840
	5775	5774.967	5775.191	5774.866	5774.836
	5785	5784.954	5785.200	5784.857	5784.819

	5795	5794.948	5795.198	5794.848	5794.808
	5825	5824.982	5825.209	5824.857	5824.742
50	5745	5744.968	5745.214	5744.861	5744.814
	5755	5754.962	5755.186	5754.874	5754.832
	5775	5774.967	5775.210	5774.860	5774.812
	5785	5784.954	5785.210	5784.846	5784.839
	5795	5794.948	5795.200	5794.840	5794.830
	5825	5824.982	5825.221	5824.874	5824.838

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)
6.545	5745	5744.947	5745.189	5744.850	5744.809
	5755	5754.963	5755.196	5754.867	5754.833
	5775	5774.962	5775.189	5774.868	5774.814
	5785	5784.965	5785.181	5784.849	5784.822
	5795	5794.976	5795.188	5794.867	5794.820
	5825	5824.957	5825.118	5824.864	5824.829
7.70	5745	5744.947	5745.200	5744.845	5744.825
	5755	5754.963	5755.202	5754.870	5754.838
	5775	5774.962	5775.206	5774.851	5774.823
	5785	5784.965	5785.198	5784.859	5784.809
	5795	5794.972	5795.189	5794.857	5794.803
	5825	5824.957	5825.199	5824.867	5824.836
8.855	5745	5744.968	5745.213	5744.861	5744.814
	5755	5754.982	5755.186	5754.875	5754.832
	5775	5774.967	5775.210	5774.860	5774.812
	5785	5784.954	5785.210	5784.846	5784.838
	5795	5794.948	5795.201	5794.840	5794.830
	5825	5824.982	5825.217	5824.874	5824.838

5 Test Setup Photo

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

6 EUT Constructional Details

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

------END------