



Test Report No.:
FCC2025-0002-RF2

TEST REPORT

FCC ID : 2BNS6-TM2256-500010
Applicant : Zhengzhou Tiamaes Technology Co., Ltd
Product Name : 4G IN-VEHICLE GATEWAY
Model No. : TM2256

CVC Testing Technology Co., Ltd.

Product Name	4G IN-VEHICLE GATEWAY	Trade Mark	
Type/Model	TM2256	Sample Status	/
Applicant	Zhengzhou Tiamaes Technology Co., Ltd		
Applicant Address	Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City		
Manufacturer	Zhengzhou Tiamaes Technology Co., Ltd		
Manufacturer Address	Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City		
Factory	Zhengzhou Tiamaes Technology Co., Ltd		
Factory Address	Rooms 106-606 and 108-608, Building 10, No. 316 Lianhua Street, High tech Zone, Zhengzhou City		
Sample Identification	1-1	Test Item	See page 8
Tested According To	FCC CFR47 Part 15E ANSI C63.10-2020+Cor1-2023 KDB 789033 D02 General UNII Test Procedures New Rules v01r04 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02		
Receiving Date	Jan.15,2025	Completing Date	Feb.21,2025~May.22,2025
Test conclusion	The equipment under test was found to comply with the requirements of the standards applied. Final Verdict: Pass. Seal of CVC Date of issue: Jul.23,2025		
Abbreviations: / Pass= passed Fail = failed N/A= not applicable			
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.			

Approved by:

Chen Huawen



Reviewed by:

Xu Zhenfei



Tested by:

Li Yueao

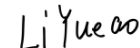


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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2025-0002-RF2	Original release	Jul.23,2025

1. General Product Information

1.1 General information

Product Name	4G IN-VEHICLE GATEWAY
Model No.	TM2256
Additional model	/
Power adapter	AC 100-240V 50-60Hz
Power Supply	DC 10-36V
Serial Number(SN)	/
Hardware version	V1.2
Software version	V1.3.3_x64
specific power settings	IEEE 802.11a: 16 IEEE 802.11n(20MHz)/11n(40MHz): 16 IEEE 802.11ac(20MHz)/11ac (40MHz)/11ac (80MHz): 16 IEEE 802.11ax(20MHz)/11ax (40MHz)/11ax (80MHz): 16
Antenna Type	External Antenna(Rod antenna) External Antenna(Patch antenna)
Antenna Gain	Rod antenna: U-NII-1: Ant1:2.30 dBi, Ant2:2.30 dBi (provided by client) U-NII-3: Ant1:2.40 dBi, Ant2:2.40 dBi (provided by client) Patch antenna: U-NII-1: Ant1:0.77 dBi, Ant2:0.77 dBi (provided by client) U-NII-3: Ant1:2.04 dBi, Ant2:2.04 dBi (provided by client)
Beamforming gain	Unsupported
Frequency Range	U-NII-1: For 20MHz:5180-5240MHz For 40MHz:5190-5230MHz For 80MHz:5210MHz U-NII-3: For 20MHz:5745-5825MHz For 40MHz:5755-5795MHz For 80MHz:5775MHz
Modulation Type	802.11a/n(HT20/HT40): 64QAM, 16QAM, QPSK, BPSK for OFDM 802.11ac(VHT20/VHT40/VHT80): 256QAM,64QAM,16QAM, QPSK,BPSK for OFDM 802.11ax(HE20/HE40/HE80):1024QAM,256QAM,64QAM,16QAM, QPSK,BPSK for OFDMA
Max. Conducted Power	U-NII-1: 20.97 dBm U-NII-3: 17.67 dBm
DFS device type	☐ Master ☐ Slave with radar detection ☐ Slave without radar detection ☒ Not support
TPC Function	☐ Support ☒ Not support
TDWR Band	☐ Support ☒ Not support
Operate Temp.Range	-30°C~+70°C
Note: 1. The information of the EUT is declared by the manufacturer. 2. The laboratory is not responsible for the product technical specification provided by the client. 3. The product models of this application are:TM2256. All the tests carried out on model TM2256. 4. EUT photo refer to report (Report NO.:FCC2025-0002-EUT).	

5. The EUT have MIMO function, provides 2 completed transmitter and 2 receiver.

2. Test Sites

2.1 Test Facilities

The tests and measurements refer to this report were performed by RF testing Lab of CVC Testing Technology Co., Ltd.

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FCC(Test firm designation number: CN1282)

IC(Test firm CAB identifier number: CN0103)

CNAS(Test firm designation number: L0095)

2.2 Description of Non-standard Method and Deviations

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

2.3 List of Test and Measurement Instruments

Refer to **Appendix X**.

3. Test Configuration

3.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Mode	Antenna Delivery	Test Channel
IEEE 802.11A	1TX / 1RX	36,44,48,149,157,165
IEEE 802.11N 20 MIMO	2TX / 2RX	36,44,48,149,157,165
IEEE 802.11N 40 MIMO	2TX / 2RX	38,46,151,159
IEEE 802.11AC 20 MIMO	2TX / 2RX	36,44,48,149,157,165
IEEE 802.11AC 40 MIMO	2TX / 2RX	38,46,151,159
IEEE 802.11AC 80 MIMO	2TX / 2RX	42,155
IEEE 802.11AX 20 MIMO	2TX / 2RX	36,44,48,149,157,165
IEEE 802.11AX 40 MIMO	2TX / 2RX	38,46,151,159
IEEE 802.11AX 80 MIMO	2TX / 2RX	42,155

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate and different channels.. Preliminary tests have been done on all the configurations for confirming worst case.

Data rate below means worst-case rate of each test item.

Worst-case data rates and channels are shown as following table.

Test Mode	Antenna Delivery	Data Rate		
		Antenna 1	Antenna 2	MIMO
IEEE 802.11A	1TX / 1RX	6	6	/
IEEE 802.11N 20MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11N 40MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11AC 20MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11AC 40MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11AC 80MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11AX 20MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11AX 40MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11AX 80MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0

Test Items	Test Antennas	Test Modes	Test Channels
Maximum conducted output power	Antenna 1, Antenna 2, MIMO	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80/ IEEE 802.11AX 20/ IEEE 802.11AX 40/ IEEE 802.11AX 80	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
Maximum Power spectral density	Antenna 1, Antenna 2, MIMO	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80/ IEEE 802.11AX 20/ IEEE 802.11AX 40/ IEEE 802.11AX 80	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
Unwanted Emissions (Band Edge Measurement)	MIMO	IEEE 802.11AX 20	36,48,149,165
Unwanted Emissions (Spurious Emissions)	MIMO	IEEE 802.11AX 20	36,44,48,149,157,165
Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth	Antenna 1, Antenna 2	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80/ IEEE 802.11AX 20/ IEEE 802.11AX 40/ IEEE 802.11AX 80	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
Frequency stability	Antenna 1, Antenna 2	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80/ IEEE 802.11AX 20/ IEEE 802.11AX 40/ IEEE 802.11AX 80	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155

3.2 Duty cycle

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.97	2.11	93.36	---	---
	Ant2	5180	1.98	2.11	93.84	---	---
	Ant1	5200	1.97	2.15	91.63	---	---
	Ant2	5200	1.98	2.10	94.29	---	---
	Ant1	5240	1.97	2.13	92.49	---	---
	Ant2	5240	1.97	2.08	94.71	---	---
	Ant1	5745	1.98	2.12	93.40	---	---
	Ant2	5745	1.98	2.13	92.96	---	---
	Ant1	5785	1.97	2.13	92.49	---	---
	Ant2	5785	1.98	2.12	93.40	---	---
	Ant1	5825	1.97	2.08	94.71	---	---
	Ant2	5825	1.98	2.13	92.96	---	---
11N20MIMO	Ant1	5180	5.43	5.68	95.60	---	---
	Ant2	5180	5.43	5.68	95.60	---	---
	Ant1	5200	5.43	5.75	94.43	---	---
	Ant2	5200	5.42	5.73	94.59	---	---
	Ant1	5240	5.44	5.70	95.44	---	---
	Ant2	5240	5.43	5.75	94.43	---	---
	Ant1	5745	5.42	5.74	94.43	---	---
	Ant2	5745	5.43	5.68	95.60	---	---
	Ant1	5785	5.43	5.74	94.60	---	---
	Ant2	5785	5.44	5.69	95.61	---	---
	Ant1	5825	5.44	5.70	95.44	---	---
	Ant2	5825	5.42	5.73	94.59	---	---
11N40MIMO	Ant1	5190	5.43	5.69	95.43	---	---
	Ant2	5190	5.44	5.79	93.96	---	---
	Ant1	5230	5.43	5.85	92.82	---	---
	Ant2	5230	5.44	5.81	93.63	---	---
	Ant1	5755	5.44	5.69	95.61	---	---
	Ant2	5755	5.43	5.70	95.26	---	---
	Ant1	5795	5.44	5.81	93.63	---	---
	Ant2	5795	5.43	5.69	95.43	---	---
11AC20MIMO	Ant1	5180	5.43	5.69	95.43	---	---
	Ant2	5180	5.43	5.69	95.43	---	---
	Ant1	5200	5.44	5.75	94.61	---	---
	Ant2	5200	5.42	5.73	94.59	---	---
	Ant1	5240	5.42	5.68	95.42	---	---
	Ant2	5240	5.43	5.76	94.27	---	---
	Ant1	5745	5.44	5.69	95.61	---	---
	Ant2	5745	5.43	5.74	94.60	---	---
	Ant1	5785	5.43	5.74	94.60	---	---
	Ant2	5785	5.44	5.69	95.61	---	---
	Ant1	5825	5.44	5.75	94.61	---	---
	Ant2	5825	5.42	5.69	95.25	---	---

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11AC40MIMO	Ant1	5190	5.43	5.72	94.93	---	---
	Ant2	5190	5.43	5.80	93.62	---	---
	Ant1	5230	5.43	5.69	95.43	---	---
	Ant2	5230	5.42	5.68	95.42	---	---
	Ant1	5755	5.44	5.72	95.10	---	---
	Ant2	5755	5.42	5.83	92.97	---	---
	Ant1	5795	5.43	5.81	93.46	---	---
	Ant2	5795	5.43	6.62	82.02	---	---
11AC80MIMO	Ant1	5210	5.42	5.87	92.33	---	---
	Ant2	5210	5.43	5.69	95.43	---	---
	Ant1	5775	5.43	5.87	92.50	---	---
	Ant2	5775	5.43	5.69	95.43	---	---
11AX20MIMO	Ant1	5180	5.45	5.71	95.45	---	---
	Ant2	5180	5.45	5.70	95.61	---	---
	Ant1	5200	5.45	5.77	94.45	---	---
	Ant2	5200	5.45	5.71	95.45	---	---
	Ant1	5240	5.45	5.70	95.61	---	---
	Ant2	5240	5.44	5.70	95.44	---	---
	Ant1	5745	5.45	5.73	95.11	---	---
	Ant2	5745	5.44	5.69	95.61	---	---
	Ant1	5785	5.44	5.79	93.96	---	---
	Ant2	5785	5.45	5.70	95.61	---	---
	Ant1	5825	5.45	5.71	95.45	---	---
	Ant2	5825	5.45	5.76	94.62	---	---
11AX40MIMO	Ant1	5190	5.45	6.34	85.96	---	---
	Ant2	5190	5.44	5.78	94.12	---	---
	Ant1	5230	5.44	5.71	95.27	---	---
	Ant2	5230	5.45	5.70	95.61	---	---
	Ant1	5755	5.44	5.74	94.77	---	---
	Ant2	5755	5.44	5.75	94.61	---	---
	Ant1	5795	5.45	5.76	94.62	---	---
	Ant2	5795	5.44	5.74	94.77	---	---
11AX80MIMO	Ant1	5210	5.45	5.71	95.45	---	---
	Ant2	5210	5.44	5.78	94.12	---	---
	Ant1	5775	5.45	5.73	95.11	---	---
	Ant2	5775	5.44	5.77	94.28	---	---

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	15.207	PASS	/
Maximum conducted output power	15.407(a)	PASS	Appendix C of WIFI5G_ diagram
Maximum Power spectral density	15.407(a)	PASS	Appendix D of WIFI5G_ diagram
Unwanted Emissions	15.407(b)	PASS	/
Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth	15.407(e), 15.407(a)	PASS	Appendix A of WIFI5G_ diagram
Frequency stability	15.407(g)	PASS	Appendix E of WIFI5G_ diagram
Dynamic Frequency Selection (DFS)	15.407(h)	N/A	/
Antenna Requirement	15.203	PASS	See note 1

Note 1: According to 15.203, it is considered sufficient to comply with the provisions of this section.

5. Measurement procedure

5.1 Conducted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2020+Cor1-2023. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Limits:

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

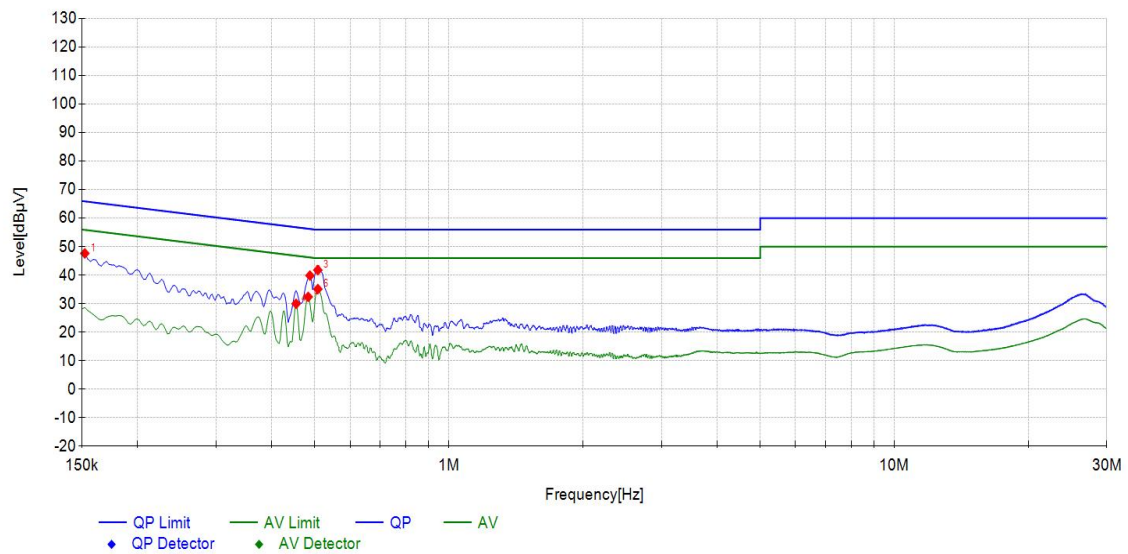
Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

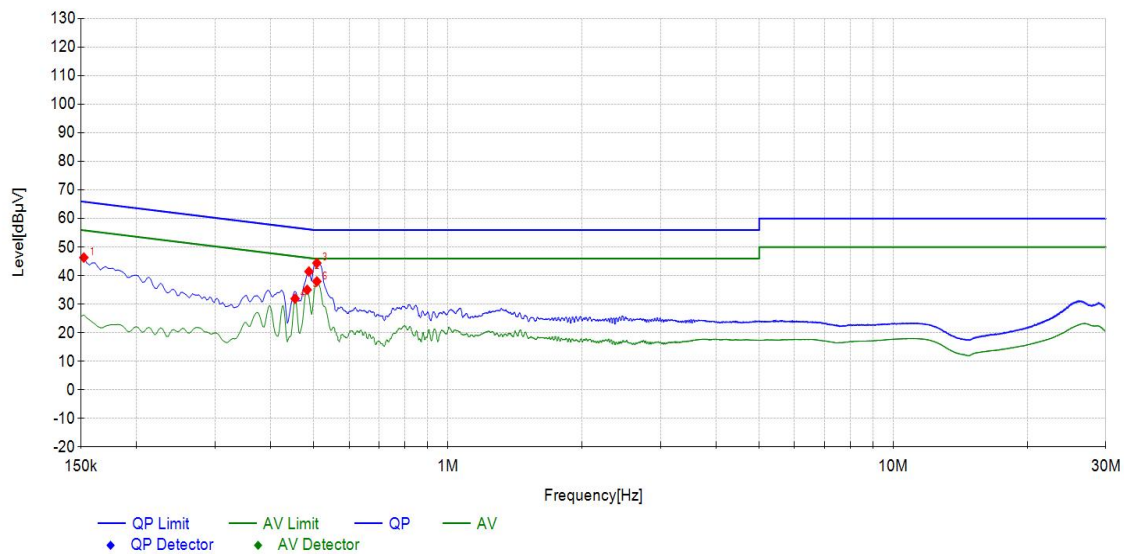
Test Results:

During the test, the Conducted Emission from 150kHz to 30MHz was performed in all modes with all channels, and all antennas. 802.11ax20, Channel 36, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		150k~30MHz						
Power Line		L						
Test channel		Worst-Case						
Suspected List								
Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Type	Pass/Fail
0.1522	10.25	37.39	47.64	65.88	18.24	QP	L	PASS
0.4875	10.25	29.61	39.86	56.21	16.35	QP	L	PASS
0.5078	10.25	31.53	41.78	56.00	14.22	QP	L	PASS
0.4538	10.25	19.74	29.99	46.81	16.82	AV	L	PASS
0.483	10.25	22.15	32.40	46.29	13.89	AV	L	PASS
0.5078	10.25	24.87	35.12	46.00	10.88	AV	L	PASS



Radiates Emission		150k~30MHz						
Power Line		N						
Test channel		Worst-Case						
Suspected List								
Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Type	Pass/Fail
0.1522	10.28	36.07	46.35	65.88	19.53	QP	N	PASS
0.4875	10.28	31.17	41.45	56.21	14.76	QP	N	PASS
0.5078	10.28	34.13	44.41	56.00	11.59	QP	N	PASS
0.4538	10.28	21.66	31.94	46.81	14.87	AV	N	PASS
0.483	10.28	24.78	35.06	46.29	11.23	AV	N	PASS
0.5078	10.28	27.71	37.99	46.00	8.01	AV	N	PASS



5.2 Unwanted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter)..

Test the EUT in the lowest channel ,the middle channel ,the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Limits:

1. For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 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.
2. 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 e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
3. 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 e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
4. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

5. Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency	Limit (μV/m)	Limit (dBμV/m @3m)	Remark
0.009MHz-0.490MHz	2400/F(kHz)@300m	$20\lg(24000000/F(\text{kHz}))$	Quasi-peak Level
0.490MHz~1.705MHz	24000/F(kHz)@30m	$20\lg(2400000/F(\text{kHz}))$	Quasi-peak Level
1.705MHz~30.0MHz	30@30m	69.54	Quasi-peak Level
30MHz-88MHz	100@3m	40.0	Quasi-peak Level
88MHz-216MHz	150@3m	43.5	Quasi-peak Level
216MHz-960MHz	200@3m	46.0	Quasi-peak Level
960MHz-1GHz	500@3m	54.0	Quasi-peak Level
Above 1GHz	500@3m	54.0	Average Level
	5000@3m	74.0	Peak Level

Measurement Data

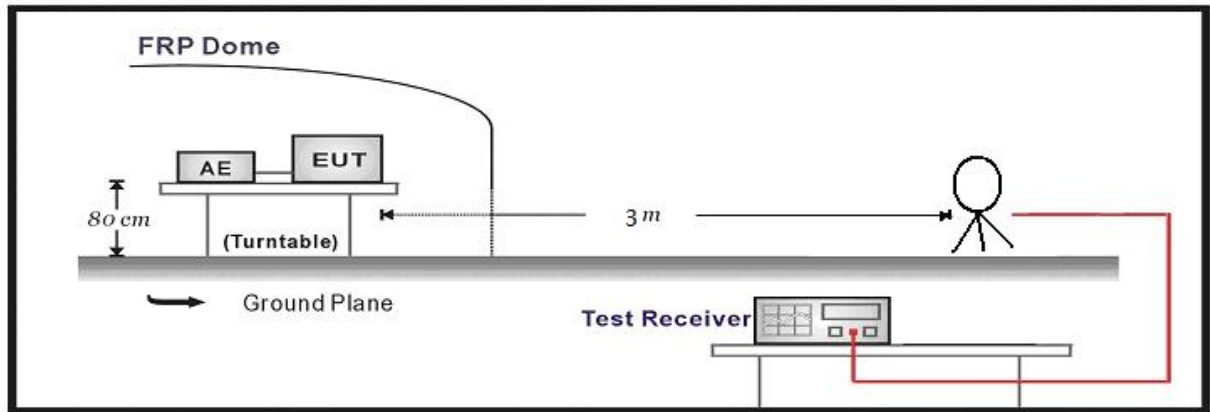
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

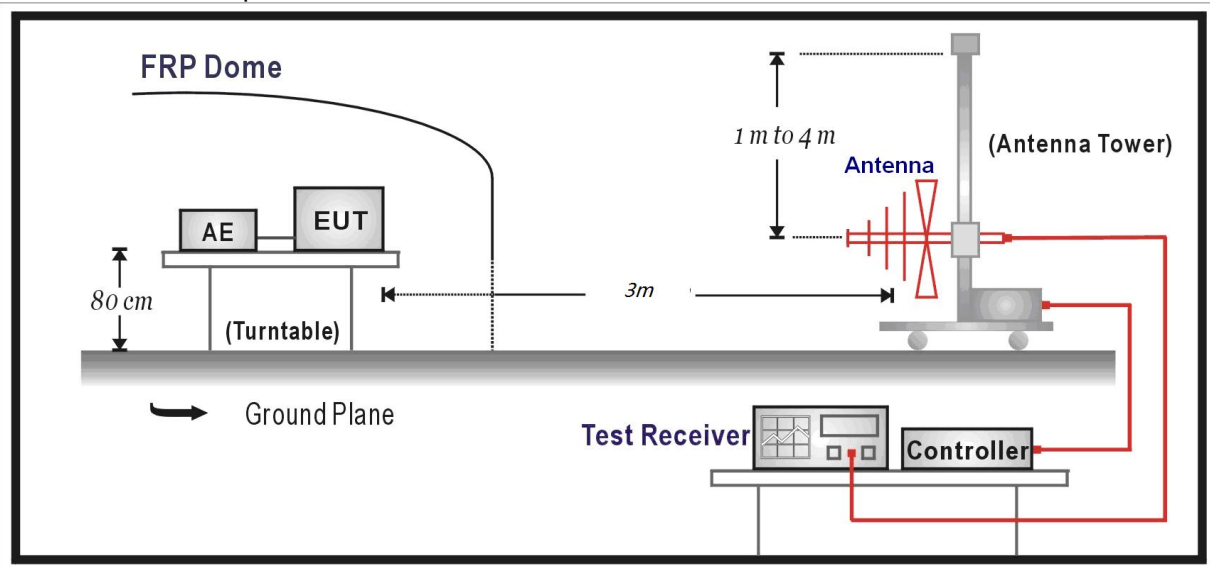
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Test Setup:

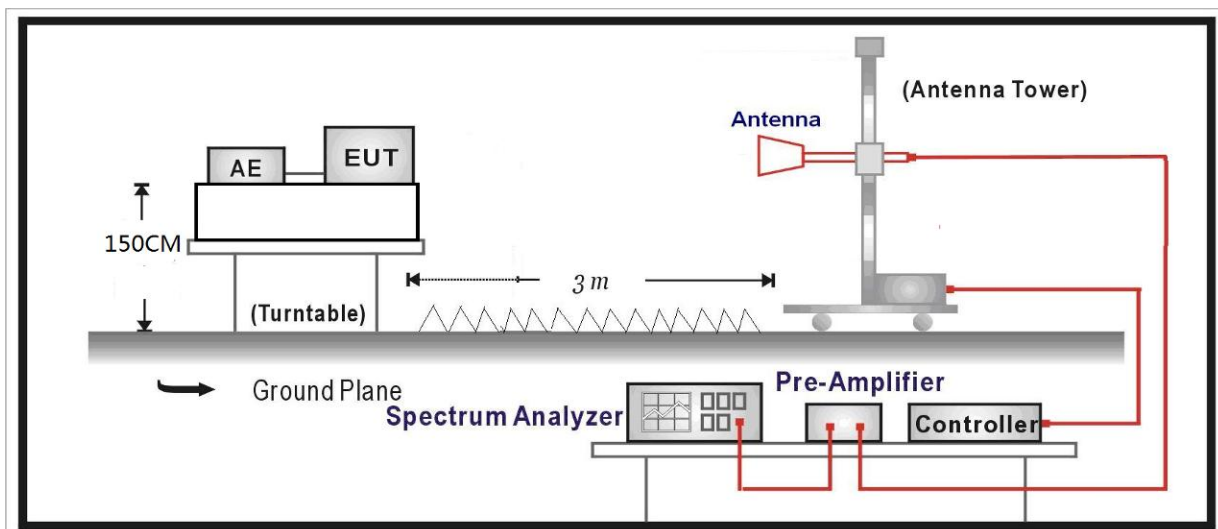
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

5.2.1 SPURIOUS EMISSIONS:

5.2.1.1 Below 1GHz:

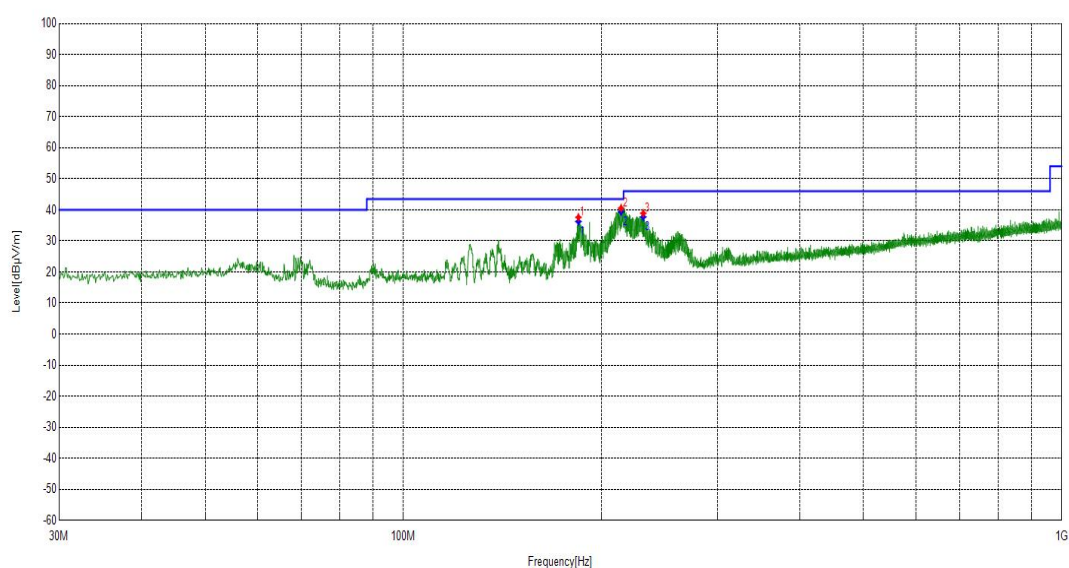
WiFi:Rod antenna

During the test, the Radiates Emission from 9kHz to 1GHz was performed in WIFI all modes with all channels and all antennas. 802.11ac20, Channel 36, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		9k~1G							
Test channel		Worst-Case							
Polarity		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/ m]	Limit [dBμV/ m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
184.4394	12.21	25.39	37.60	43.50	5.90	PK	100	126	PASS
214.1244	13.26	27.28	40.54	43.50	2.96	PK	100	198	PASS
231.3921	13.72	25.17	38.89	46.00	7.11	PK	100	60	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

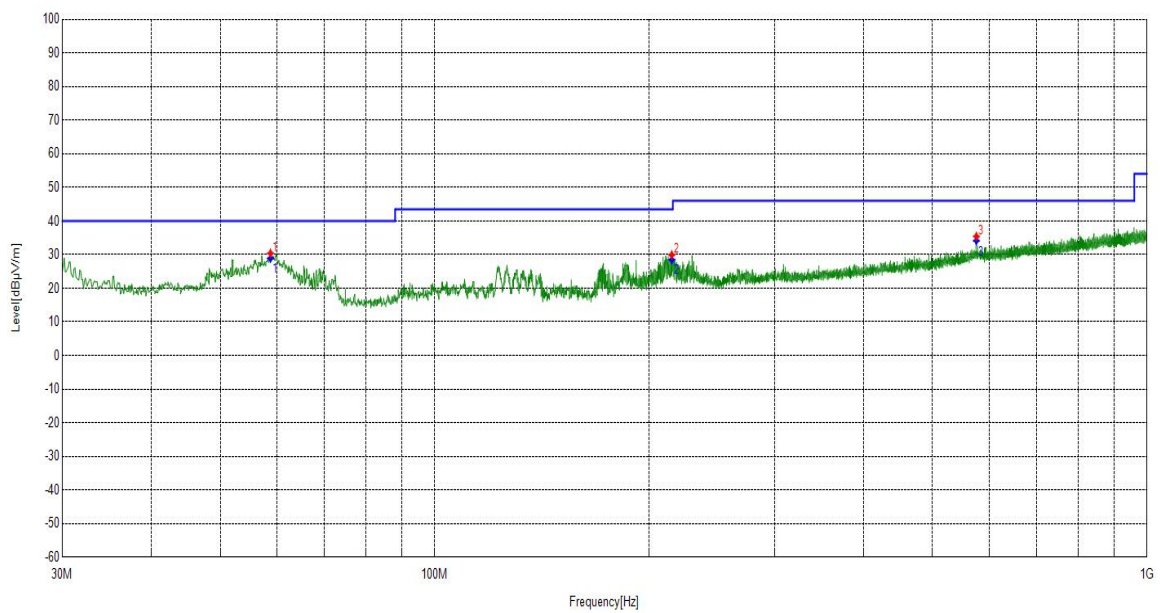
Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
184.4394	12.21	36.23	43.50	7.27	325	126	PASS
214.1244	13.26	39.35	43.50	4.15	216	198	PASS
231.3921	13.72	37.70	46.00	8.30	198	60	PASS



Radiates Emission		9k~1G							
Test channel		Worst-Case							
Polarity		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
58.8119	12.29	18.10	30.39	40.00	9.61	PK	100	153	PASS
215.1915	13.29	16.62	29.91	43.50	13.59	PK	100	192	PASS
576.0676	21.55	13.85	35.40	46.00	10.60	PK	100	133	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
58.8119	12.29	28.94	40.00	11.06	286	153	PASS
215.1915	13.29	28.46	43.50	15.04	216	192	PASS
576.0676	21.55	34.13	46.00	11.87	297	133	PASS



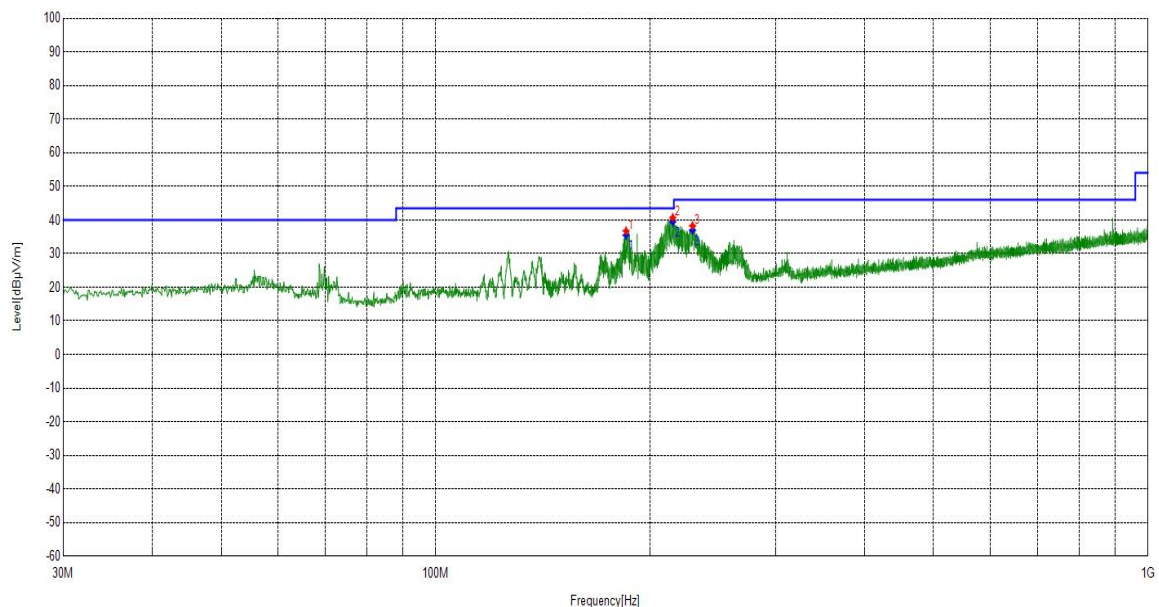
WIFI: Patch antenna

During the test, the Radiates Emission from 9kHz to 1GHz was performed in WIFI all modes with all channels and all antennas. 802.11ac20, Channel 36, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		9k~1G							
Test channel		Worst-Case							
Polarity		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
185.0215	12.27	24.47	36.74	43.50	6.76	PK	100	258	PASS
215.1915	13.29	27.42	40.71	43.50	2.79	PK	100	219	PASS
229.3549	13.67	24.62	38.29	46.00	7.71	PK	100	60	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

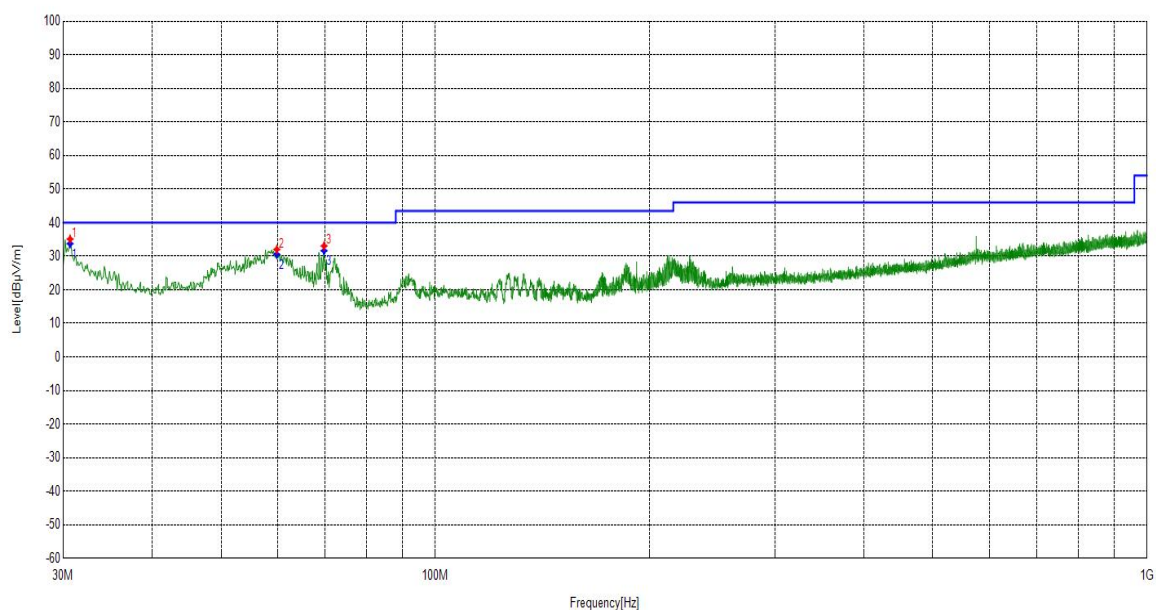
Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
185.0215	12.27	35.47	43.50	8.03	195	258	PASS
215.1915	13.29	39.44	43.50	4.06	357	219	PASS
229.3549	13.67	36.94	46.00	9.06	118	60	PASS



Radiates Emission	9k~1G								
Test channel	Worst-Case								
Polarity	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/ m]	Level [dBμV/ m]	Limit [dBμV/ m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
30.6791	10.34	24.76	35.10	40.00	4.90	PK	100	1	PASS
59.879	12.19	19.82	32.01	40.00	7.99	PK	100	239	PASS
69.774	9.61	23.46	33.07	40.00	6.93	PK	100	279	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
30.6791	10.34	33.74	40.00	6.26	217	1	PASS
59.879	12.19	30.57	40.00	9.43	158	239	PASS
69.774	9.61	31.63	40.00	8.37	352	279	PASS



5.2.1.2 Above 1GHz:

During the test, the Radiates Emission from 1GHz to 40GHz was performed in WIFI all modes with all channels and all antennas. 802.11ax20, Highest, medium, lowest channels, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

5.2.1.2.1 U-NII-1:Rod antenna

Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7036.90369	8.95	30.11	39.06	74.00	34.94	PK	150	130	PASS
9506.750675	12.34	28.06	40.40	74.00	33.60	PK	150	290	PASS
12894.68946	13.79	29.06	42.85	74.00	31.15	PK	150	80	PASS
7020.10201	8.95	19.54	28.49	54.00	25.51	AV	150	350	PASS
9285.928593	11.43	19.17	30.60	54.00	23.40	AV	150	330	PASS
12381.03810	12.46	19.08	31.54	54.00	22.46	AV	150	140	PASS
Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7684.968497	9.15	29.64	38.79	74.00	35.21	PK	150	140	PASS
10216.02160	12.61	28.50	41.11	74.00	32.89	PK	150	100	PASS
12309.03090	12.27	29.05	41.32	74.00	32.68	PK	150	140	PASS
7666.966697	9.14	20.55	29.69	54.00	24.31	AV	150	50	PASS
10369.63696	12.84	18.10	30.94	54.00	23.06	AV	150	10	PASS
12483.04830	12.74	18.97	31.71	54.00	22.29	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7972.9973	9.25	30.01	39.26	74.00	34.74	PK	150	50	PASS
9359.135914	11.73	28.92	40.65	74.00	33.35	PK	150	180	PASS
10778.87788	12.75	30.46	43.21	74.00	30.79	PK	150	270	PASS
7825.382538	9.23	19.63	28.86	54.00	25.14	AV	150	150	PASS
9384.338434	11.83	18.60	30.43	54.00	23.57	AV	150	110	PASS
11174.91749	12.59	19.53	32.12	54.00	21.88	AV	150	80	PASS
Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
8575.457546	10.08	31.19	41.27	74.00	32.73	PK	150	150	PASS
11122.11221	12.58	29.25	41.83	74.00	32.17	PK	150	70	PASS
12804.68046	13.54	30.41	43.95	74.00	30.05	PK	150	40	PASS
8580.258026	10.08	20.21	30.29	54.00	23.71	AV	150	60	PASS
11299.72997	12.30	19.73	32.03	54.00	21.97	AV	150	120	PASS
13180.31803	14.09	18.36	32.45	54.00	21.55	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7923.792379	9.25	30.30	39.55	74.00	34.45	PK	150	40	PASS
9843.984398	12.39	28.03	40.42	74.00	33.58	PK	150	190	PASS
11278.12781	12.36	30.04	42.40	74.00	31.60	PK	150	110	PASS
7602.160216	9.09	19.77	28.86	54.00	25.14	AV	150	350	PASS
10012.0012	12.38	18.54	30.92	54.00	23.08	AV	150	310	PASS
11281.72817	12.35	20.19	32.54	54.00	21.46	AV	150	110	PASS
Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7848.184819	9.23	29.96	39.19	74.00	34.81	PK	150	70	PASS
9353.135314	11.71	28.71	40.42	74.00	33.58	PK	150	310	PASS
11743.77437	11.65	30.51	42.16	74.00	31.84	PK	150	200	PASS
7742.574257	9.19	19.49	28.68	54.00	25.32	AV	150	20	PASS
9355.535554	11.72	17.66	29.38	54.00	24.62	AV	150	50	PASS
11240.92409	12.47	19.41	31.88	54.00	22.12	AV	150	250	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.1.2.2 U-NII-1: Patch antenna

Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7296.129613	9.00	29.83	38.83	74.00	35.17	PK	150	140	PASS
8053.405341	9.32	29.42	38.74	74.00	35.26	PK	150	290	PASS
10356.43564	12.82	28.22	41.04	74.00	32.96	PK	150	130	PASS
7386.138614	8.99	19.68	28.67	54.00	25.33	AV	150	150	PASS
8388.238824	9.82	19.08	28.90	54.00	25.10	AV	150	130	PASS
10246.02460	12.66	17.66	30.32	54.00	23.68	AV	150	110	PASS
Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7422.142214	8.99	29.12	38.11	74.00	35.89	PK	150	330	PASS
9507.950795	12.34	28.39	40.73	74.00	33.27	PK	150	150	PASS
12774.67746	13.47	28.00	41.47	74.00	32.53	PK	150	300	PASS
7322.532253	8.99	19.45	28.44	54.00	25.56	AV	150	180	PASS
9437.143714	12.07	17.86	29.93	54.00	24.07	AV	150	140	PASS
12148.21482	11.86	19.01	30.87	54.00	23.13	AV	150	170	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7972.9973	9.25	30.01	39.26	74.00	34.74	PK	150	50	PASS
8288.628863	9.66	29.31	38.97	74.00	35.03	PK	150	350	PASS
11983.79838	11.54	29.10	40.64	74.00	33.36	PK	150	100	PASS
7964.59646	9.25	19.62	28.87	54.00	25.13	AV	150	310	PASS
8571.857186	10.07	20.85	30.92	54.00	23.08	AV	150	320	PASS
11890.18901	11.55	19.10	30.65	54.00	23.35	AV	150	300	PASS
Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7959.79598	9.25	29.82	39.07	74.00	34.93	PK	150	110	PASS
8969.09691	10.36	29.00	39.36	74.00	34.64	PK	150	140	PASS
10631.26312	12.68	28.34	41.02	74.00	32.98	PK	150	300	PASS
7917.791779	9.25	19.68	28.93	54.00	25.07	AV	150	180	PASS
8887.488749	10.25	19.41	29.66	54.00	24.34	AV	150	20	PASS
10692.46924	12.71	18.80	31.51	54.00	22.49	AV	150	260	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7996.9997	9.25	29.36	38.61	74.00	35.39	PK	150	30	PASS
9209.120912	11.10	28.14	39.24	74.00	34.76	PK	150	210	PASS
11068.10681	12.57	28.99	41.56	74.00	32.44	PK	150	170	PASS
7832.583258	9.23	19.40	28.63	54.00	25.37	AV	150	350	PASS
9269.126913	11.36	18.72	30.08	54.00	23.92	AV	150	310	PASS
10981.69817	12.58	18.05	30.63	54.00	23.37	AV	150	60	PASS
Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7848.184819	9.23	29.96	39.19	74.00	34.81	PK	150	70	PASS
8431.443144	9.89	30.50	40.39	74.00	33.61	PK	150	60	PASS
11464.14641	11.94	30.11	42.05	74.00	31.95	PK	150	250	PASS
7917.791779	9.25	19.29	28.54	54.00	25.46	AV	150	20	PASS
8677.467747	10.12	19.81	29.93	54.00	24.07	AV	150	120	PASS
11404.14041	11.99	19.29	31.28	54.00	22.72	AV	150	10	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.1.2.3 U-NII-3:Rod antenna

Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
8157.815782	9.46	30.17	39.63	74.00	34.37	PK	150	180	PASS
9266.726673	11.35	28.59	39.94	74.00	34.06	PK	150	50	PASS
10663.66636	12.70	28.69	41.39	74.00	32.61	PK	150	290	PASS
8198.619862	9.52	20.19	29.71	54.00	24.29	AV	150	220	PASS
9511.551155	12.34	18.25	30.59	54.00	23.41	AV	150	250	PASS
10970.89709	12.59	19.18	31.77	54.00	22.23	AV	150	260	PASS
Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
8586.258626	10.08	31.10	41.18	74.00	32.82	PK	150	200	PASS
9443.144314	12.09	28.45	40.54	74.00	33.46	PK	150	300	PASS
10798.07980	12.77	28.96	41.73	74.00	32.27	PK	150	30	PASS
8693.069307	10.13	20.16	30.29	54.00	23.71	AV	150	10	PASS
9505.550555	12.34	17.30	29.64	54.00	24.36	AV	150	20	PASS
11185.71857	12.60	19.31	31.91	54.00	22.09	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
8583.858386	10.08	30.41	40.49	74.00	33.51	PK	150	120	PASS
9912.391239	12.38	28.47	40.85	74.00	33.15	PK	150	220	PASS
12311.43114	12.27	28.46	40.73	74.00	33.27	PK	150	220	PASS
8502.250225	10.00	20.40	30.40	54.00	23.60	AV	150	340	PASS
10241.22412	12.66	18.35	31.01	54.00	22.99	AV	150	130	PASS
11852.98529	11.55	20.90	32.45	54.00	21.55	AV	150	50	PASS
Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
8720.672067	10.12	30.26	40.38	74.00	33.62	PK	150	40	PASS
9587.158716	12.37	28.42	40.79	74.00	33.21	PK	150	60	PASS
11189.31893	12.59	29.48	42.07	74.00	31.93	PK	150	130	PASS
8575.457546	10.08	20.01	30.09	54.00	23.91	AV	150	20	PASS
9617.161716	12.39	19.50	31.89	54.00	22.11	AV	150	30	PASS
11182.11821	12.59	20.49	33.08	54.00	20.92	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7975.39754	9.24	30.01	39.25	74.00	34.75	PK	150	90	PASS
9690.369037	12.40	27.75	40.15	74.00	33.85	PK	150	140	PASS
12661.86618	13.20	28.33	41.53	74.00	32.47	PK	150	230	PASS
8021.0021	9.27	20.04	29.31	54.00	24.69	AV	150	190	PASS
10004.80048	12.37	17.72	30.09	54.00	23.91	AV	150	120	PASS
12558.65586	12.96	18.54	31.50	54.00	22.50	AV	150	220	PASS
Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7666.9667	10.00	31.83	41.83	74.00	32.17	PK	150	100	PASS
8507.050705	12.40	28.08	40.48	74.00	33.52	PK	150	140	PASS
9729.972997	13.18	28.56	41.74	74.00	32.26	PK	150	120	PASS
12647.46474	9.27	19.95	29.22	54.00	24.78	AV	150	110	PASS
8022.20222	12.38	18.21	30.59	54.00	23.41	AV	150	50	PASS
9613.561356	12.06	20.22	32.28	54.00	21.72	AV	150	140	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.1.2.4 U-NII-3:Patch antenna

Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7195.319532	9.01	29.35	38.36	74.00	35.64	PK	150	70	PASS
10494.44944	12.84	27.74	40.58	74.00	33.42	PK	150	120	PASS
12676.26762	13.24	28.09	41.33	74.00	32.67	PK	150	10	PASS
7195.319532	9.01	19.55	28.56	54.00	25.44	AV	150	120	PASS
10322.83228	12.77	18.31	31.08	54.00	22.92	AV	150	80	PASS
12407.44074	12.53	18.44	30.97	54.00	23.03	AV	150	60	PASS
Radiates Emission		Above 1GHz							
Test channel		Lowest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
7272.127213	8.99	30.01	39.00	74.00	35.00	PK	150	340	PASS
9041.10411	10.54	28.32	38.86	74.00	35.14	PK	150	290	PASS
10493.24932	12.84	27.95	40.79	74.00	33.21	PK	150	240	PASS
7351.335134	8.99	19.26	28.25	54.00	25.75	AV	150	20	PASS
9215.121512	11.12	17.73	28.85	54.00	25.15	AV	150	10	PASS
10834.08340	12.72	18.14	30.86	54.00	23.14	AV	150	70	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
7274.527453	8.99	30.10	39.09	74.00	34.91	PK	150	150	PASS
9711.971197	12.39	28.24	40.63	74.00	33.37	PK	150	170	PASS
10638.46384	12.69	28.77	41.46	74.00	32.54	PK	150	0	PASS
7305.730573	8.99	19.42	28.41	54.00	25.59	AV	150	340	PASS
9582.358236	12.37	17.76	30.13	54.00	23.87	AV	150	70	PASS
10643.26432	12.69	18.95	31.64	54.00	22.36	AV	150	130	PASS
Radiates Emission		Above 1GHz							
Test channel		Medium							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
7320.132013	8.99	29.99	38.98	74.00	35.02	PK	150	20	PASS
8853.885389	10.20	29.68	39.88	74.00	34.12	PK	150	290	PASS
12498.64986	12.80	28.20	41.00	74.00	33.00	PK	150	70	PASS
7321.332133	8.99	19.55	28.54	54.00	25.46	AV	150	240	PASS
9012.30123	10.44	19.63	30.07	54.00	23.93	AV	150	90	PASS
12515.45154	12.84	18.71	31.55	54.00	22.45	AV	150	50	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
7938.193819	9.24	30.19	39.43	74.00	34.57	PK	150	340	PASS
9984.39844	12.36	28.69	41.05	74.00	32.95	PK	150	20	PASS
11827.78277	11.56	30.34	41.90	74.00	32.10	PK	150	30	PASS
8154.215422	9.45	19.59	29.04	54.00	24.96	AV	150	310	PASS
9921.992199	12.38	17.81	30.19	54.00	23.81	AV	150	110	PASS
11473.74737	11.94	19.46	31.40	54.00	22.60	AV	150	240	PASS
Radiates Emission		Above 1GHz							
Test channel		Highest							
polarization		Vertical							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
7507.350735	9.05	31.23	40.28	74.00	33.72	PK	150	40	PASS
9270.327033	11.36	28.74	40.10	74.00	33.90	PK	150	350	PASS
13936.39363	15.30	29.91	45.21	74.00	28.79	PK	150	120	PASS
7512.151215	9.05	18.98	28.03	54.00	25.97	AV	150	80	PASS
9247.524753	11.27	18.58	29.85	54.00	24.15	AV	150	50	PASS
14416.44164	18.03	18.46	36.49	54.00	17.51	AV	150	160	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.2 Band edge measurements (Radiates):

Test Results:

U-NII-1: 5150-5250MHz:Rod antenna

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11ax20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5057.4057	1.86	49.99	51.85	74.00	22.15	PK	150	100	PASS
5150.4150	2.14	48.10	50.24	74.00	23.76	PK	150	320	PASS
5181.4181	2.24	85.82	88.06	---	---	PK	150	150	---
5057.4057	1.86	38.87	40.73	54.00	13.27	AV	150	20	PASS
5150.4150	2.14	38.93	41.07	54.00	12.93	AV	150	10	PASS
5182.9182	2.24	74.96	77.20	---	---	AV	150	10	---

Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5126.4126	2.06	48.64	50.70	74.00	23.30	PK	150	240	PASS
5150.4150	2.14	49.30	51.44	74.00	22.56	PK	150	160	PASS
5177.4177	2.22	103.22	105.44	---	---	PK	150	220	---
5126.4126	2.06	39.31	41.37	54.00	12.63	AV	150	10	PASS
5150.4150	2.14	40.97	43.11	54.00	10.89	AV	150	10	PASS
5179.4179	2.23	90.70	92.93	---	---	AV	150	140	---

Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5245.4245	2.41	93.64	96.05	---	---	PK	150	240	---
5350.4350	2.69	49.05	51.74	74.00	22.26	PK	150	250	PASS
5462.4462	2.97	50.64	53.61	74.00	20.39	PK	150	60	PASS
5245.4245	2.41	81.30	83.71	---	---	AV	150	10	---
5350.4350	2.69	39.32	42.01	54.00	11.99	AV	150	360	PASS
5462.4462	2.97	39.58	42.55	54.00	11.45	AV	150	10	PASS
Test mode			802.11ac20						
Test channel			Highest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5238.4238	2.39	103.70	106.09	---	---	PK	150	20	---
5350.4350	2.69	49.28	51.97	74.00	22.03	PK	150	30	PASS
5411.4411	2.84	50.91	53.75	74.00	20.25	PK	150	240	PASS
5239.4239	2.39	93.61	96.00	---	---	AV	150	10	---
5350.4350	2.69	39.85	42.54	54.00	11.46	AV	150	30	PASS
5411.4411	2.84	39.33	42.17	54.00	11.83	AV	150	40	PASS

U-NII-1: 5150-5250MHz:Patch antenna

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11ax20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5114.4114	2.54	36.33	38.87	74.00	35.13	PK	150	78	PASS
5150.4150	2.67	37.16	39.83	74.00	34.17	PK	150	143	PASS
5184.4184	2.80	91.54	94.34	---	---	PK	150	116	---
5114.4114	2.54	26.36	28.90	54.00	25.10	AV	150	97	PASS
5150.4150	2.67	27.02	29.69	54.00	24.31	AV	150	1	PASS
5182.9182	2.80	79.30	82.10	---	---	AV	150	5	---

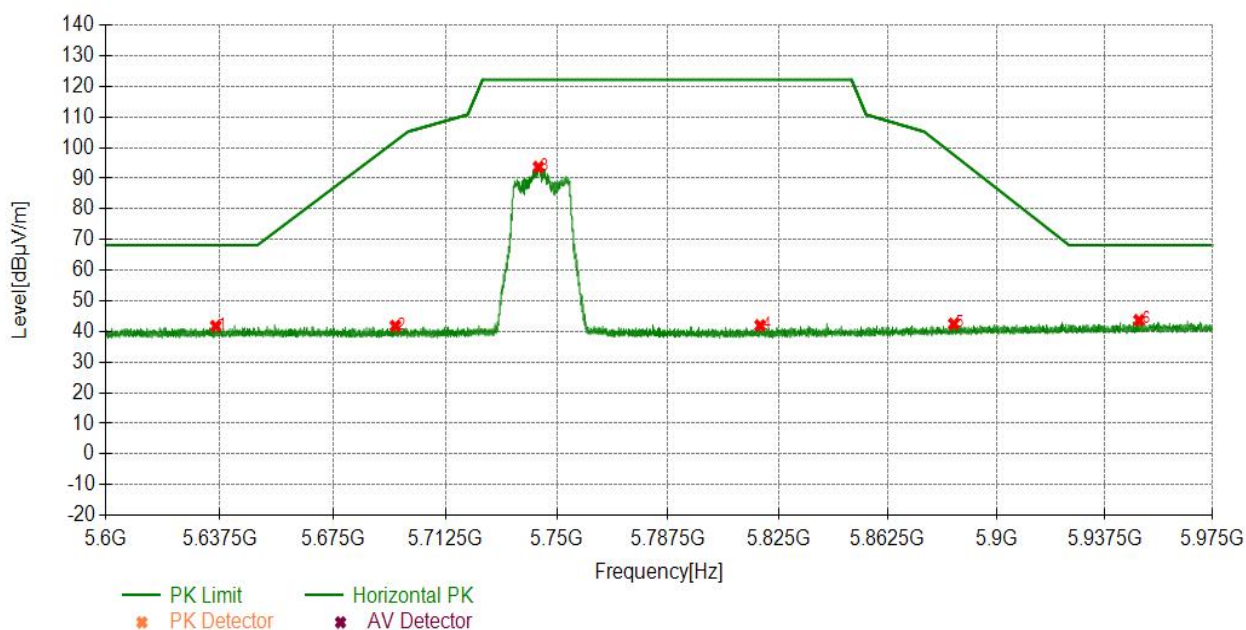
Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5087.4087	2.44	38.92	41.36	74.00	32.64	PK	150	222	PASS
5150.4150	2.67	37.63	40.30	74.00	33.70	PK	150	164	PASS
5182.4182	2.80	90.16	92.96	---	---	PK	150	321	---
5087.4087	2.44	27.05	29.49	54.00	24.51	AV	150	359	PASS
5150.4150	2.67	26.44	29.11	54.00	24.89	AV	150	334	PASS
5175.4175	2.77	77.29	80.06	---	---	AV	150	354	---

Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5235.4235	2.97	91.64	94.61	---	---	PK	150	3	---
5350.4350	3.36	37.29	40.65	74.00	33.35	PK	150	248	PASS
5417.4417	3.55	38.63	42.18	74.00	31.82	PK	150	103	PASS
5237.9237	2.99	78.59	81.58	---	---	AV	150	359	---
5350.4350	3.36	27.04	30.40	54.00	23.60	AV	150	354	PASS
5417.4417	3.55	26.12	29.67	54.00	24.33	AV	150	143	PASS
Test mode			802.11ac20						
Test channel			Highest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5237.4237	2.99	89.85	92.84	---	---	PK	150	319	---
5350.4350	3.36	37.57	40.93	74.00	33.07	PK	150	243	PASS
5405.4405	3.52	37.08	40.60	74.00	33.40	PK	150	104	PASS
5236.4236	2.99	78.24	81.23	---	---	AV	150	1	---
5350.4350	3.36	26.58	29.94	54.00	24.06	AV	150	296	PASS
5405.4405	3.52	26.44	29.96	54.00	24.04	AV	150	25	PASS

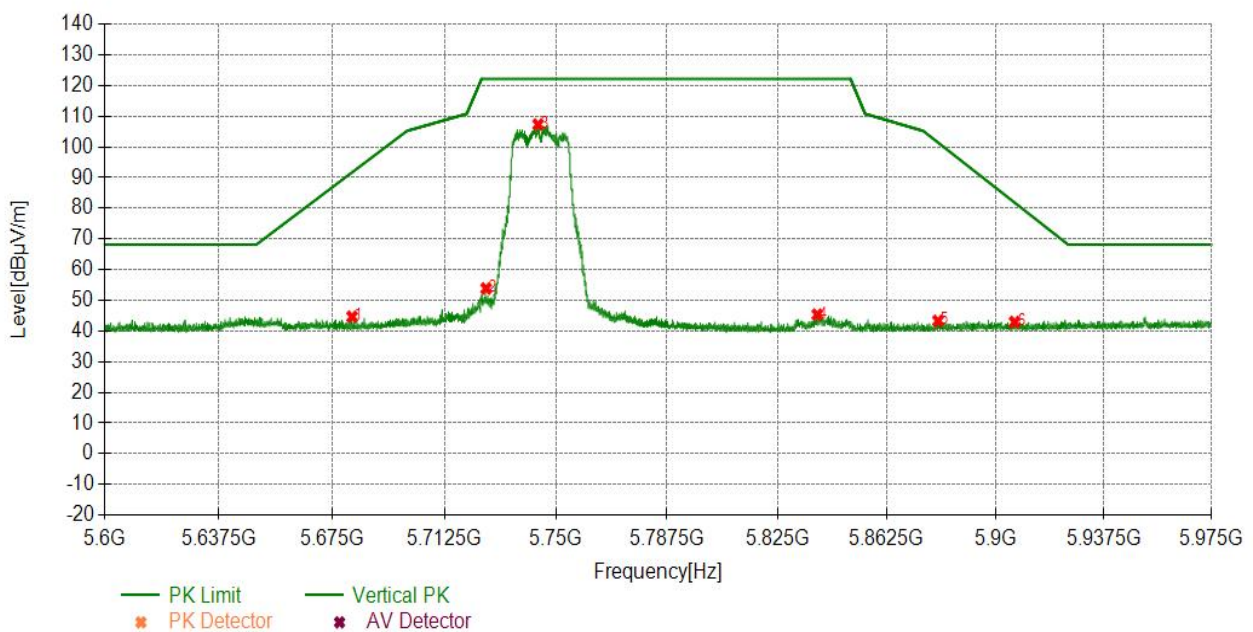
U-NII-3 5725-5850MHz: Rod antenna

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11ax20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

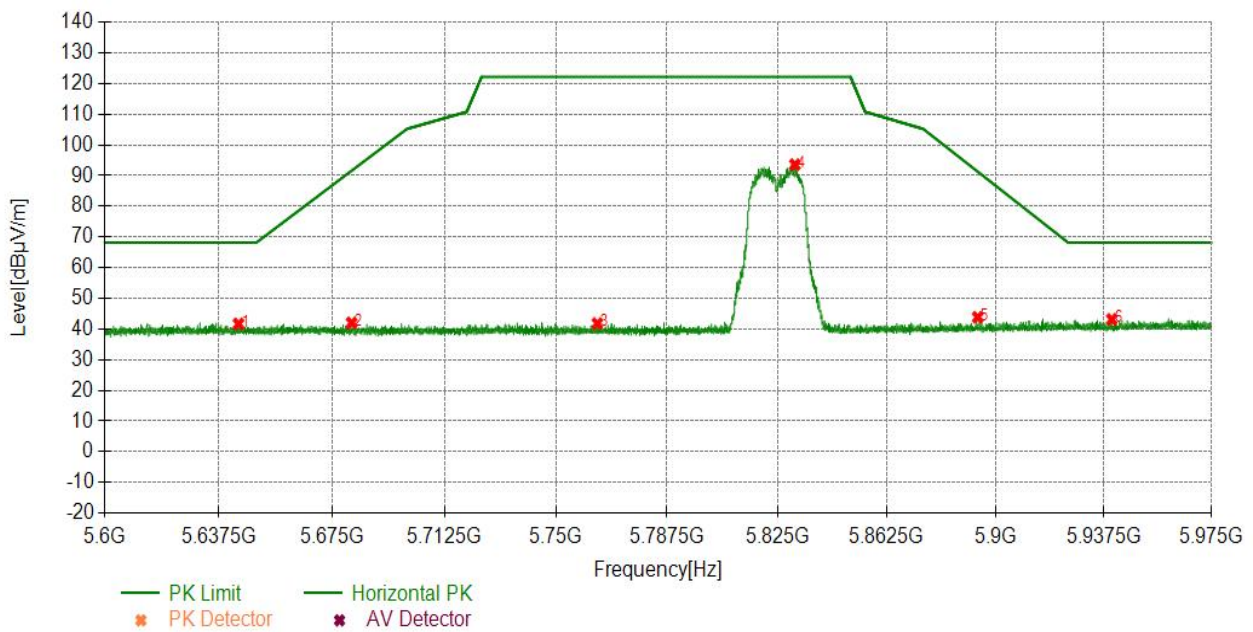
Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5636.2286	3.36	38.40	41.76	68.20	26.44	PK	150	310	PASS
5695.8220	3.63	38.15	41.78	102.12	60.34	PK	150	140	PASS
5743.7518	3.85	89.82	93.67	122.20	28.53	PK	150	270	PASS
5818.7968	4.19	37.76	41.95	122.20	80.25	PK	150	270	PASS
5885.1410	4.47	38.03	42.50	97.67	55.17	PK	150	40	PASS
5949.3474	4.75	38.90	43.65	68.20	24.55	PK	150	40	PASS



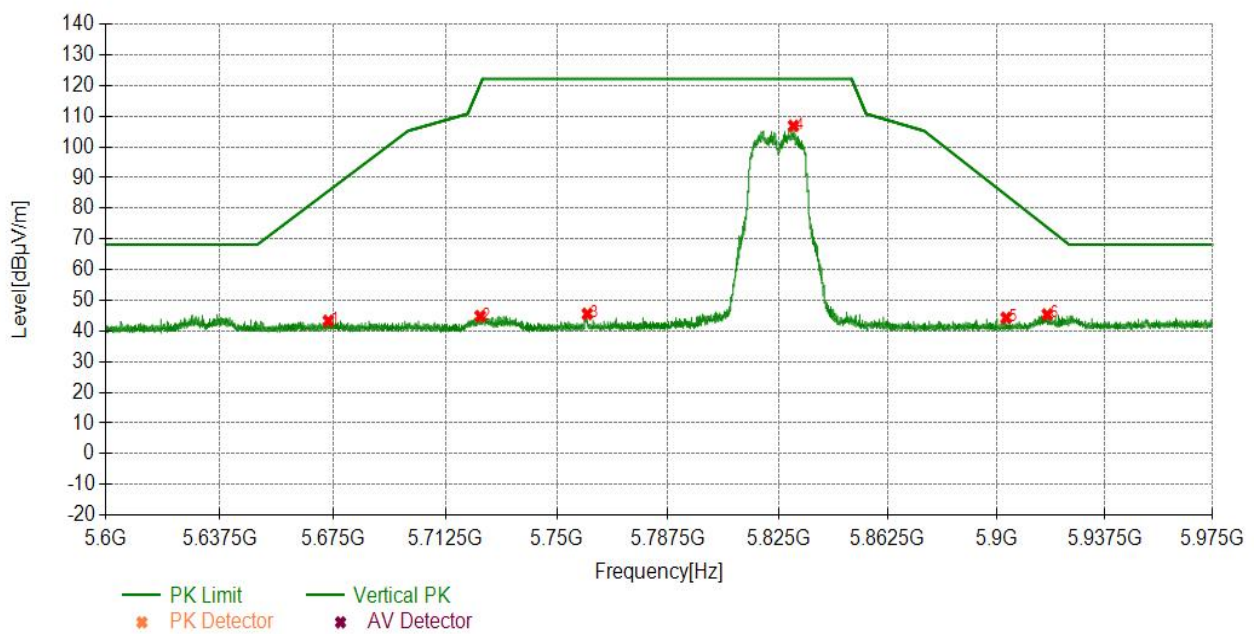
Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5681.7206	3.56	41.12	44.68	91.71	47.03	PK	150	320	PASS
5726.5001	3.78	50.08	53.86	122.20	68.34	PK	150	320	PASS
5743.9768	3.85	103.43	107.28	122.20	14.92	PK	150	320	PASS
5838.5988	4.27	41.03	45.30	122.20	76.90	PK	150	210	PASS
5880.0405	4.45	38.86	43.31	101.46	58.15	PK	150	10	PASS
5906.4806	4.56	38.38	42.94	81.87	38.93	PK	150	240	PASS



Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5644.0669	3.39	38.30	41.69	68.20	26.51	PK	150	270	PASS
5681.5706	3.56	38.43	41.99	91.60	49.61	PK	150	270	PASS
5763.9288	3.94	37.88	41.82	122.20	80.38	PK	150	250	PASS
5830.9855	4.24	89.33	93.57	122.20	28.63	PK	150	190	PASS
5893.7293	4.51	39.30	43.81	91.30	47.49	PK	150	260	PASS
5940.1965	4.71	38.43	43.14	68.20	25.06	PK	150	170	PASS



Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5673.5073	3.53	39.77	43.30	85.64	42.34	PK	150	288	PASS
5724.1749	3.76	41.08	44.84	120.32	75.48	PK	150	308	PASS
5760.1785	3.92	41.65	45.57	122.20	76.63	PK	150	314	PASS
5830.1605	4.23	102.62	106.85	122.20	15.35	PK	150	347	PASS
5903.2178	4.54	39.76	44.30	84.28	39.98	PK	150	52	PASS
5917.4317	4.60	40.76	45.36	73.78	28.42	PK	150	340	PASS

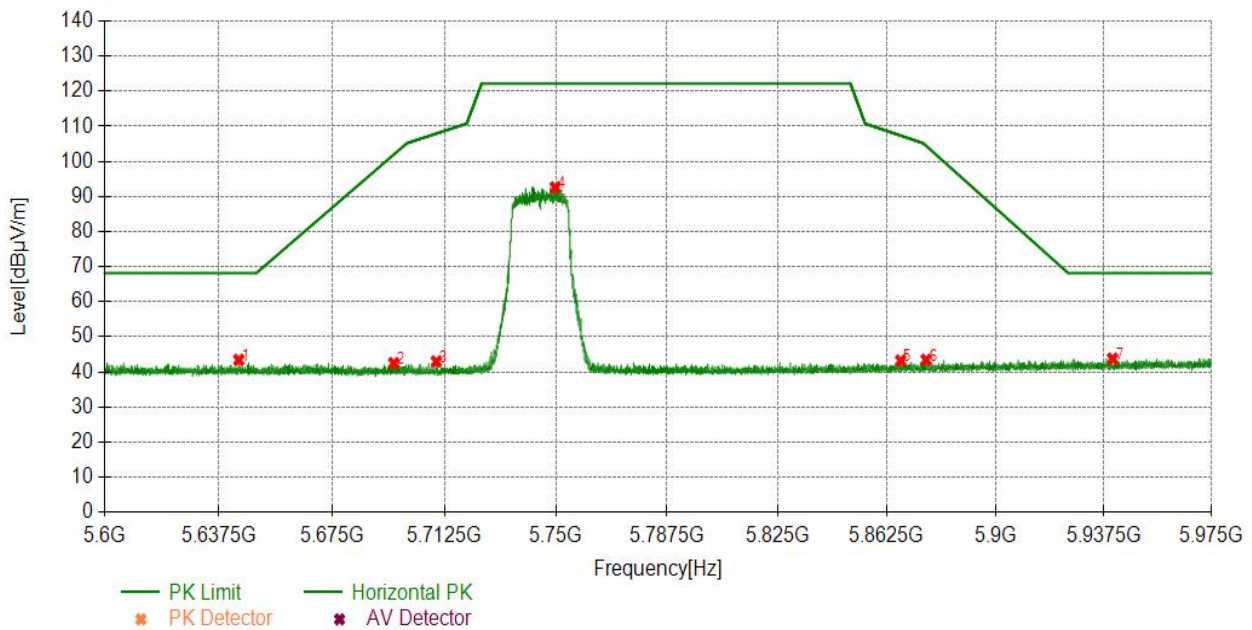


U-NII-3 5725-5850MHz: Patch antenna

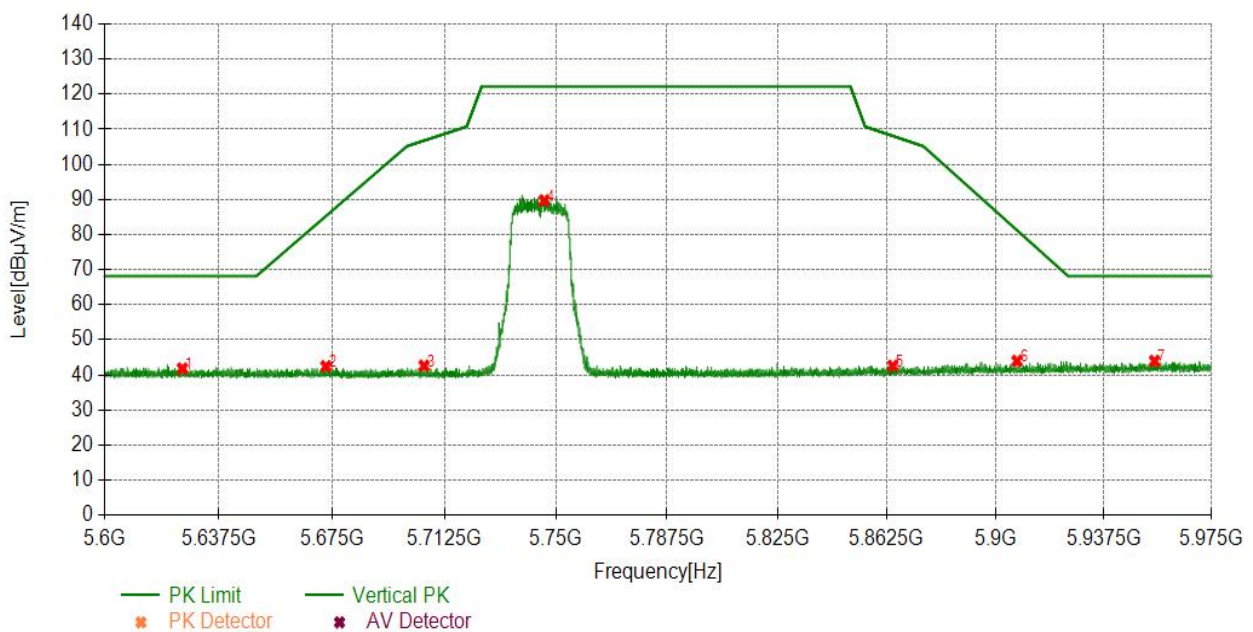
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11ax20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

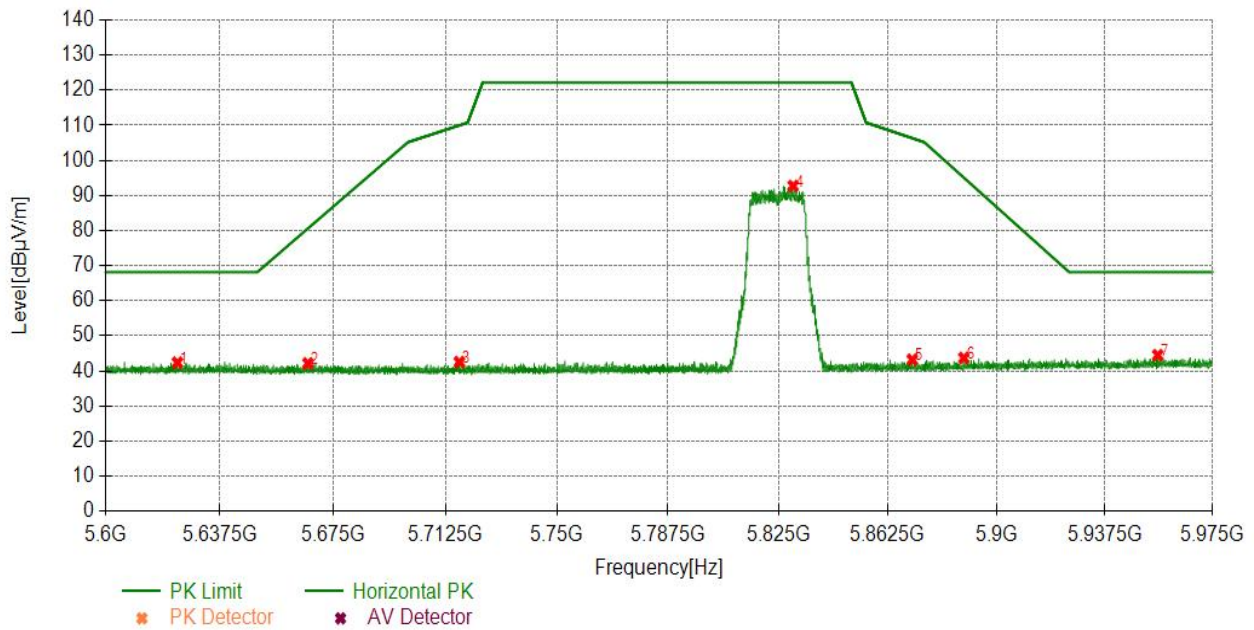
Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5644.1794	3.39	40.03	43.42	68.20	24.78	PK	150	143	PASS
5695.5970	3.63	38.85	42.48	101.95	59.47	PK	150	338	PASS
5709.8484	3.69	39.29	42.98	107.96	64.98	PK	150	58	PASS
5749.7524	3.87	88.70	92.57	122.20	29.63	PK	150	13	PASS
5867.2142	4.39	38.83	43.22	107.38	64.16	PK	150	234	PASS
5875.9900	4.44	38.99	43.43	104.46	61.03	PK	150	156	PASS
5940.4965	4.71	39.02	43.73	68.20	24.47	PK	150	52	PASS



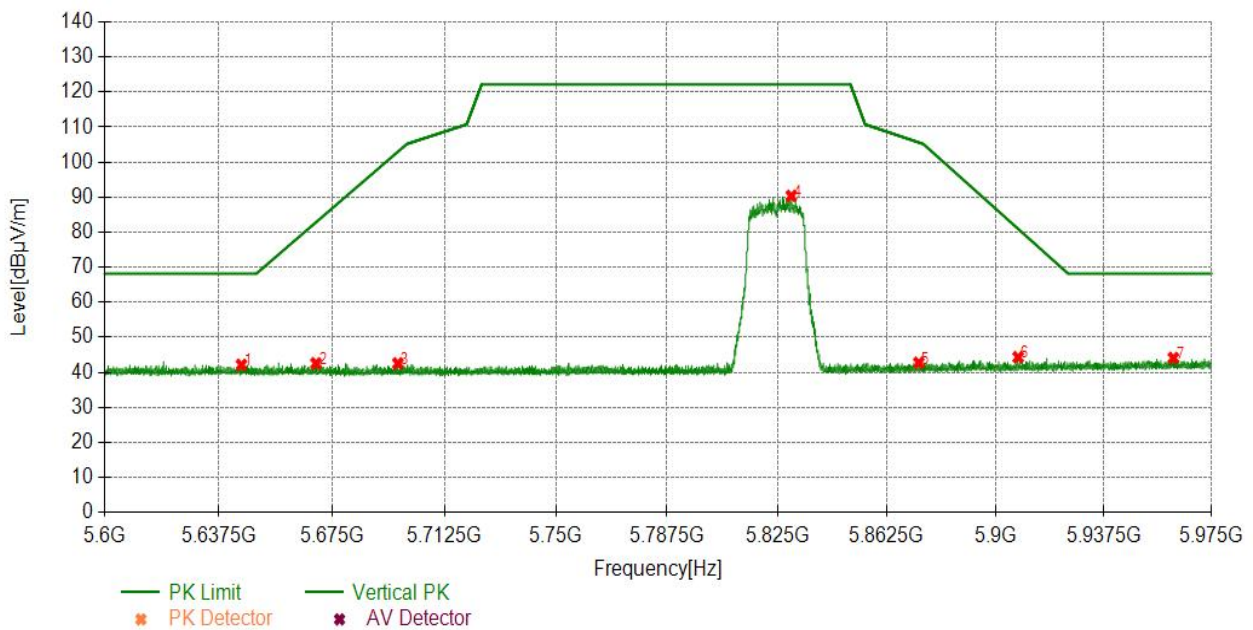
Test mode			802.11ax20						
Test channel			Lowest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5625.5775	3.32	38.46	41.78	68.20	26.42	PK	150	68	PASS
5673.0573	3.52	38.90	42.42	85.30	42.88	PK	150	95	PASS
5705.7230	3.68	38.93	42.61	106.80	64.19	PK	150	316	PASS
5745.9645	3.85	85.85	89.70	122.20	32.50	PK	150	36	PASS
5864.5139	4.38	38.21	42.59	108.13	65.54	PK	150	42	PASS
5907.3432	4.57	39.41	43.98	81.23	37.25	PK	150	206	PASS
5955.0855	4.77	39.17	43.94	68.20	24.26	PK	150	147	PASS



Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5623.5898	3.30	39.05	42.35	68.20	25.85	PK	150	348	PASS
5666.7566	3.50	38.64	42.14	80.64	38.50	PK	150	42	PASS
5717.2367	3.73	38.78	42.51	110.03	67.52	PK	150	42	PASS
5830.0480	4.23	88.50	92.73	122.20	29.47	PK	150	15	PASS
5870.8520	4.41	38.78	43.19	106.36	63.17	PK	150	204	PASS
5888.5913	4.48	39.20	43.68	95.11	51.43	PK	150	198	PASS
5955.8730	4.77	39.72	44.49	68.20	23.71	PK	150	359	PASS



Test mode			802.11ax20						
Test channel			Highest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5645.0420	3.39	38.73	42.12	68.20	26.08	PK	150	84	PASS
5669.7194	3.52	39.03	42.55	82.83	40.28	PK	150	195	PASS
5697.0222	3.64	38.89	42.53	103.01	60.48	PK	150	90	PASS
5829.7854	4.23	86.14	90.37	122.20	31.83	PK	150	12	PASS
5873.4398	4.42	38.29	42.71	105.64	62.93	PK	150	77	PASS
5907.7182	4.57	39.73	44.30	80.95	36.65	PK	150	357	PASS
5961.6486	4.80	39.28	44.08	68.20	24.12	PK	150	208	PASS



5.3 Maximum conducted output power

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

During the process of the testing, The EUT was connected to spectrum analyzer through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. Use the Peak detector.

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

WIFI(Rod antenna)

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Power Limit Reduction
	Antenna 1	Antenna 2		
5150-5250	2.30	2.30	5.31	23.98
5725-5825	2.40	2.40	5.41	30.00

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

Note: B is the 26 dB emission bandwidth in megahertz.

Directional gain is to be computed as follows:

transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.

WIFI(Patch antenna)

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Power Limit Reduction
	Antenna 1	Antenna 2		
5150-5250	0.77	0.77	3.78	23.98
5725-5825	2.04	2.04	5.05	30.00

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

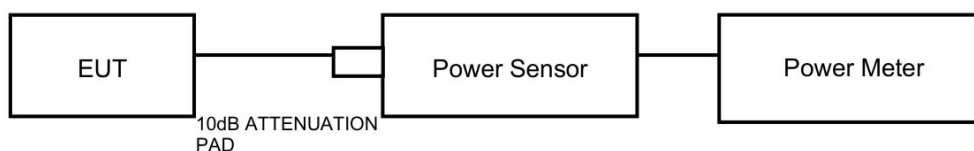
Note: B is the 26 dB emission bandwidth in megahertz.

Directional gain is to be computed as follows:

transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

Test Results:

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	17.72	≤23.98	PASS
	Ant2	5180	15.67	≤23.98	PASS
	Ant1	5200	17.60	≤23.98	PASS
	Ant2	5200	16.15	≤23.98	PASS
	Ant1	5240	18.65	≤23.98	PASS
	Ant2	5240	16.51	≤23.98	PASS
	Ant1	5745	14.17	≤30.00	PASS
	Ant2	5745	10.07	≤30.00	PASS
	Ant1	5785	14.81	≤30.00	PASS
	Ant2	5785	11.32	≤30.00	PASS
11N20MIMO	Ant1	5825	14.57	≤30.00	PASS
	Ant2	5825	11.22	≤30.00	PASS
	Ant1	5180	17.20	≤23.98	PASS
	Ant2	5180	15.33	≤23.98	PASS
	total	5180	19.38	≤23.98	PASS
	Ant1	5200	17.14	≤23.98	PASS
	Ant2	5200	15.69	≤23.98	PASS
	total	5200	19.49	≤23.98	PASS
	Ant1	5240	17.74	≤23.98	PASS
	Ant2	5240	15.70	≤23.98	PASS
	total	5240	19.85	≤23.98	PASS
	Ant1	5745	14.00	≤30.00	PASS
	Ant2	5745	10.49	≤30.00	PASS
	total	5745	15.60	≤30.00	PASS
	Ant1	5785	14.12	≤30.00	PASS
	Ant2	5785	11.42	≤30.00	PASS
	total	5785	15.99	≤30.00	PASS
	Ant1	5825	14.41	≤30.00	PASS
	Ant2	5825	11.71	≤30.00	PASS
	total	5825	16.28	≤30.00	PASS
11N40MIMO	Ant1	5190	17.96	≤23.98	PASS
	Ant2	5190	16.31	≤23.98	PASS
	total	5190	20.22	≤23.98	PASS
	Ant1	5230	18.96	≤23.98	PASS
	Ant2	5230	16.65	≤23.98	PASS
	total	5230	20.97	≤23.98	PASS
	Ant1	5755	15.18	≤30.00	PASS
	Ant2	5755	12.04	≤30.00	PASS
	total	5755	16.90	≤30.00	PASS
	Ant1	5795	15.73	≤30.00	PASS
	Ant2	5795	13.25	≤30.00	PASS
	total	5795	17.67	≤30.00	PASS
11AC20MIMO	Ant1	5180	17.39	≤23.98	PASS
	Ant2	5180	14.90	≤23.98	PASS
	total	5180	19.33	≤23.98	PASS
	Ant1	5200	17.50	≤23.98	PASS
	Ant2	5200	15.33	≤23.98	PASS
	total	5200	19.56	≤23.98	PASS
	Ant1	5240	18.33	≤23.98	PASS
	Ant2	5240	15.20	≤23.98	PASS
	total	5240	20.05	≤23.98	PASS
	Ant1	5745	13.68	≤30.00	PASS
	Ant2	5745	11.04	≤30.00	PASS
	total	5745	15.57	≤30.00	PASS
	Ant1	5785	14.37	≤30.00	PASS
	Ant2	5785	11.96	≤30.00	PASS
	total	5785	16.34	≤30.00	PASS
	Ant1	5825	14.31	≤30.00	PASS
	Ant2	5825	11.60	≤30.00	PASS
	total	5825	16.17	≤30.00	PASS

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11AC40MIMO	Ant1	5190	18.22	≤23.98	PASS
	Ant2	5190	16.16	≤23.98	PASS
	total	5190	20.32	≤23.98	PASS
	Ant1	5230	18.45	≤23.98	PASS
	Ant2	5230	16.03	≤23.98	PASS
	total	5230	20.42	≤23.98	PASS
	Ant1	5755	14.70	≤30.00	PASS
	Ant2	5755	12.28	≤30.00	PASS
	total	5755	16.67	≤30.00	PASS
	Ant1	5795	13.95	≤30.00	PASS
11AC80MIMO	Ant2	5795	12.07	≤30.00	PASS
	total	5795	16.12	≤30.00	PASS
	Ant1	5210	17.74	≤23.98	PASS
	Ant2	5210	16.27	≤23.98	PASS
	total	5210	20.08	≤23.98	PASS
11AX20MIMO	Ant1	5775	12.85	≤30.00	PASS
	Ant2	5775	10.46	≤30.00	PASS
	total	5775	14.83	≤30.00	PASS
	Ant1	5180	16.81	≤23.98	PASS
	Ant2	5180	14.40	≤23.98	PASS
	total	5180	18.78	≤23.98	PASS
	Ant1	5200	17.01	≤23.98	PASS
	Ant2	5200	14.80	≤23.98	PASS
	total	5200	19.05	≤23.98	PASS
	Ant1	5240	17.29	≤23.98	PASS
	Ant2	5240	15.70	≤23.98	PASS
	total	5240	19.58	≤23.98	PASS
	Ant1	5745	12.44	≤30.00	PASS
	Ant2	5745	9.49	≤30.00	PASS
	total	5745	14.22	≤30.00	PASS
	Ant1	5785	13.02	≤30.00	PASS
	Ant2	5785	10.09	≤30.00	PASS
	total	5785	14.81	≤30.00	PASS
11AX40MIMO	Ant1	5825	12.63	≤30.00	PASS
	Ant2	5825	10.38	≤30.00	PASS
	total	5825	14.66	≤30.00	PASS
	Ant1	5190	18.14	≤23.98	PASS
	Ant2	5190	15.27	≤23.98	PASS
	total	5190	19.95	≤23.98	PASS
	Ant1	5230	18.14	≤23.98	PASS
	Ant2	5230	16.60	≤23.98	PASS
	total	5230	20.45	≤23.98	PASS
	Ant1	5755	12.97	≤30.00	PASS
	Ant2	5755	10.23	≤30.00	PASS
11AX80MIMO	total	5755	14.82	≤30.00	PASS
	Ant1	5795	13.55	≤30.00	PASS
	Ant2	5795	11.22	≤30.00	PASS
	total	5795	15.55	≤30.00	PASS
	Ant1	5210	17.69	≤23.98	PASS
	Ant2	5210	15.45	≤23.98	PASS
11AX80MIMO	total	5210	19.72	≤23.98	PASS
	Ant1	5775	13.34	≤30.00	PASS
	Ant2	5775	9.90	≤30.00	PASS
	total	5775	14.96	≤30.00	PASS
	total	5775	14.96	≤30.00	PASS

5.4 Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

For U-NII-1, set RBW $\approx 1\%$ OCB kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

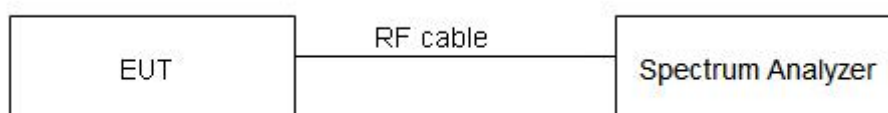
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument.

Limits:

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results: Min emission bandwidth

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.000	5736.880	5752.880	≥0.5	PASS
	Ant2	5745	15.320	5737.240	5752.560	≥0.5	PASS
	Ant1	5785	16.280	5776.880	5793.160	≥0.5	PASS
	Ant2	5785	16.280	5776.880	5793.160	≥0.5	PASS
	Ant1	5825	15.680	5816.880	5832.560	≥0.5	PASS
	Ant2	5825	15.680	5817.240	5832.920	≥0.5	PASS
11N20MIMO	Ant1	5745	15.640	5737.520	5753.160	≥0.5	PASS
	Ant2	5745	17.560	5736.240	5753.800	≥0.5	PASS
	Ant1	5785	16.560	5776.880	5793.440	≥0.5	PASS
	Ant2	5785	17.640	5776.200	5793.840	≥0.5	PASS
	Ant1	5825	17.560	5816.240	5833.800	≥0.5	PASS
	Ant2	5825	15.040	5817.480	5832.520	≥0.5	PASS
11N40MIMO	Ant1	5755	36.320	5736.840	5773.160	≥0.5	PASS
	Ant2	5755	35.920	5736.840	5772.760	≥0.5	PASS
	Ant1	5795	36.320	5776.840	5813.160	≥0.5	PASS
	Ant2	5795	36.320	5776.840	5813.160	≥0.5	PASS
11AC20MIMO	Ant1	5745	16.520	5736.640	5753.160	≥0.5	PASS
	Ant2	5745	17.560	5736.240	5753.800	≥0.5	PASS
	Ant1	5785	17.560	5776.240	5793.800	≥0.5	PASS
	Ant2	5785	16.120	5776.640	5792.760	≥0.5	PASS
	Ant1	5825	17.640	5816.200	5833.840	≥0.5	PASS
	Ant2	5825	16.800	5816.640	5833.440	≥0.5	PASS
11AC40MIMO	Ant1	5755	36.240	5736.920	5773.160	≥0.5	PASS
	Ant2	5755	36.000	5736.920	5772.920	≥0.5	PASS
	Ant1	5795	35.920	5776.840	5812.760	≥0.5	PASS
	Ant2	5795	35.920	5776.920	5812.840	≥0.5	PASS
11AC80MIMO	Ant1	5775	75.680	5736.920	5812.600	≥0.5	PASS
	Ant2	5775	75.200	5737.560	5812.760	≥0.5	PASS
11AX20MIMO	Ant1	5745	18.360	5735.880	5754.240	≥0.5	PASS
	Ant2	5745	18.240	5736.120	5754.360	≥0.5	PASS
	Ant1	5785	18.640	5775.640	5794.280	≥0.5	PASS
	Ant2	5785	18.960	5775.520	5794.480	≥0.5	PASS
	Ant1	5825	17.520	5816.120	5833.640	≥0.5	PASS
	Ant2	5825	19.040	5815.520	5834.560	≥0.5	PASS
11AX40MIMO	Ant1	5755	37.440	5736.040	5773.480	≥0.5	PASS
	Ant2	5755	37.200	5736.040	5773.240	≥0.5	PASS
	Ant1	5795	34.720	5777.480	5812.200	≥0.5	PASS
	Ant2	5795	38.080	5775.960	5814.040	≥0.5	PASS
11AX80MIMO	Ant1	5775	62.560	5738.680	5801.240	≥0.5	PASS
	Ant2	5775	76.000	5736.600	5812.600	≥0.5	PASS

Test Results: Emission Bandwidth

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.320	5170.120	5190.440	---	---
	Ant2	5180	19.720	5170.000	5189.720	---	---
	Ant1	5200	20.200	5190.080	5210.280	---	---
	Ant2	5200	20.040	5190.120	5210.160	---	---
	Ant1	5240	20.520	5229.720	5250.240	---	---
	Ant2	5240	19.560	5229.960	5249.520	---	---
	Ant1	5745	20.400	5734.920	5755.320	---	---
	Ant2	5745	19.920	5735.160	5755.080	---	---
	Ant1	5785	20.080	5775.120	5795.200	---	---
	Ant2	5785	20.480	5774.840	5795.320	---	---
	Ant1	5825	20.200	5814.960	5835.160	---	---
	Ant2	5825	20.320	5814.760	5835.080	---	---
11N20MIMO	Ant1	5180	20.960	5169.760	5190.720	---	---
	Ant2	5180	21.120	5169.480	5190.600	---	---
	Ant1	5200	20.400	5189.840	5210.240	---	---
	Ant2	5200	20.280	5190.040	5210.320	---	---
	Ant1	5240	21.000	5229.600	5250.600	---	---
	Ant2	5240	20.720	5229.640	5250.360	---	---
	Ant1	5745	20.840	5734.680	5755.520	---	---
	Ant2	5745	20.640	5734.840	5755.480	---	---
	Ant1	5785	20.160	5774.960	5795.120	---	---
	Ant2	5785	20.920	5774.640	5795.560	---	---
	Ant1	5825	20.600	5814.720	5835.320	---	---
	Ant2	5825	20.880	5814.600	5835.480	---	---
11N40MIMO	Ant1	5190	39.600	5170.320	5209.920	---	---
	Ant2	5190	40.320	5169.920	5210.240	---	---
	Ant1	5230	40.480	5209.760	5250.240	---	---
	Ant2	5230	40.160	5209.840	5250.000	---	---
	Ant1	5755	40.080	5734.920	5775.000	---	---
	Ant2	5755	40.320	5735.080	5775.400	---	---
	Ant1	5795	40.560	5774.760	5815.320	---	---
	Ant2	5795	40.080	5775.080	5815.160	---	---
11AC20MIMO	Ant1	5180	20.600	5169.600	5190.200	---	---
	Ant2	5180	20.120	5169.960	5190.080	---	---
	Ant1	5200	20.400	5189.840	5210.240	---	---
	Ant2	5200	20.360	5189.800	5210.160	---	---
	Ant1	5240	20.560	5229.720	5250.280	---	---
	Ant2	5240	20.600	5229.760	5250.360	---	---
	Ant1	5745	21.320	5734.360	5755.680	---	---
	Ant2	5745	20.840	5734.760	5755.600	---	---
	Ant1	5785	21.200	5774.480	5795.680	---	---
	Ant2	5785	20.680	5774.640	5795.320	---	---
	Ant1	5825	21.160	5814.320	5835.480	---	---
	Ant2	5825	20.680	5814.640	5835.320	---	---

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AC40MIMO	Ant1	5190	39.760	5170.080	5209.840	---	---
	Ant2	5190	40.400	5169.760	5210.160	---	---
	Ant1	5230	39.520	5210.320	5249.840	---	---
	Ant2	5230	40.480	5209.840	5250.320	---	---
	Ant1	5755	40.480	5734.680	5775.160	---	---
	Ant2	5755	40.480	5735.080	5775.560	---	---
	Ant1	5795	40.240	5774.760	5815.000	---	---
	Ant2	5795	40.800	5774.520	5815.320	---	---
11AC80MIMO	Ant1	5210	81.440	5169.520	5250.960	---	---
	Ant2	5210	80.960	5169.520	5250.480	---	---
	Ant1	5775	81.280	5734.360	5815.640	---	---
	Ant2	5775	81.120	5734.520	5815.640	---	---
11AX20MIMO	Ant1	5180	21.000	5169.680	5190.680	---	---
	Ant2	5180	21.400	5169.360	5190.760	---	---
	Ant1	5200	21.480	5189.400	5210.880	---	---
	Ant2	5200	21.200	5189.360	5210.560	---	---
	Ant1	5240	20.520	5229.720	5250.240	---	---
	Ant2	5240	21.680	5228.920	5250.600	---	---
	Ant1	5745	21.160	5734.320	5755.480	---	---
	Ant2	5745	21.040	5734.640	5755.680	---	---
	Ant1	5785	21.720	5774.040	5795.760	---	---
	Ant2	5785	20.960	5774.640	5795.600	---	---
	Ant1	5825	21.200	5814.320	5835.520	---	---
	Ant2	5825	21.280	5814.440	5835.720	---	---
11AX40MIMO	Ant1	5190	40.320	5170.000	5210.320	---	---
	Ant2	5190	41.040	5169.600	5210.640	---	---
	Ant1	5230	40.720	5209.920	5250.640	---	---
	Ant2	5230	40.400	5209.600	5250.000	---	---
	Ant1	5755	40.640	5734.600	5775.240	---	---
	Ant2	5755	40.960	5734.680	5775.640	---	---
	Ant1	5795	40.000	5775.000	5815.000	---	---
	Ant2	5795	40.720	5774.760	5815.480	---	---
11AX80MIMO	Ant1	5210	81.760	5169.520	5251.280	---	---
	Ant2	5210	81.440	5169.200	5250.640	---	---
	Ant1	5775	81.440	5734.200	5815.640	---	---
	Ant2	5775	81.440	5734.040	5815.480	---	---

Test Results: Occupied channel bandwidth

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.488	5171.7712	5188.2592	---	---
	Ant2	5180	16.583	5171.7519	5188.3349	---	---
	Ant1	5200	16.504	5191.7745	5208.2785	---	---
	Ant2	5200	16.566	5191.7494	5208.3154	---	---
	Ant1	5240	16.512	5231.7662	5248.2782	---	---
	Ant2	5240	16.527	5231.7656	5248.2926	---	---
	Ant1	5745	16.486	5736.7663	5753.2523	---	---
	Ant2	5745	16.540	5736.7613	5753.3013	---	---
	Ant1	5785	16.538	5776.7559	5793.2939	---	---
	Ant2	5785	16.577	5776.7368	5793.3138	---	---
	Ant1	5825	16.534	5816.7585	5833.2925	---	---
	Ant2	5825	16.558	5816.7459	5833.3039	---	---
11N20MIMO	Ant1	5180	17.730	5171.1469	5188.8769	---	---
	Ant2	5180	17.737	5171.1682	5188.9052	---	---
	Ant1	5200	17.695	5191.1974	5208.8924	---	---
	Ant2	5200	17.730	5191.1702	5208.9002	---	---
	Ant1	5240	17.733	5231.1818	5248.9148	---	---
	Ant2	5240	17.722	5231.1544	5248.8764	---	---
	Ant1	5745	17.681	5736.1759	5753.8569	---	---
	Ant2	5745	17.739	5736.1731	5753.9121	---	---
	Ant1	5785	17.671	5776.1781	5793.8491	---	---
	Ant2	5785	17.728	5776.1642	5793.8922	---	---
	Ant1	5825	17.701	5816.1812	5833.8822	---	---
	Ant2	5825	17.704	5816.1707	5833.8747	---	---
11N40MIMO	Ant1	5190	36.176	5171.9809	5208.1569	---	---
	Ant2	5190	36.134	5171.9672	5208.1012	---	---
	Ant1	5230	36.230	5211.9345	5248.1645	---	---
	Ant2	5230	36.171	5211.9039	5248.0749	---	---
	Ant1	5755	36.174	5736.9346	5773.1086	---	---
	Ant2	5755	36.166	5736.9441	5773.1101	---	---
	Ant1	5795	36.123	5776.9092	5813.0322	---	---
	Ant2	5795	36.164	5776.9241	5813.0881	---	---
11AC20MIMO	Ant1	5180	17.707	5171.1559	5188.8629	---	---
	Ant2	5180	17.709	5171.1464	5188.8554	---	---
	Ant1	5200	17.719	5191.1964	5208.9154	---	---
	Ant2	5200	17.725	5191.1742	5208.8992	---	---
	Ant1	5240	17.763	5231.1529	5248.9159	---	---
	Ant2	5240	17.730	5231.1627	5248.8927	---	---
	Ant1	5745	17.714	5736.1664	5753.8804	---	---
	Ant2	5745	17.721	5736.1358	5753.8568	---	---
	Ant1	5785	17.727	5776.1491	5793.8761	---	---
	Ant2	5785	17.719	5776.1600	5793.8790	---	---
	Ant1	5825	17.690	5816.1757	5833.8657	---	---
	Ant2	5825	17.717	5816.1653	5833.8823	---	---

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AC40MIMO	Ant1	5190	36.216	5171.9407	5208.1567	---	---
	Ant2	5190	36.191	5171.9337	5208.1247	---	---
	Ant1	5230	36.112	5212.0255	5248.1375	---	---
	Ant2	5230	36.172	5211.9234	5248.0954	---	---
	Ant1	5755	36.150	5736.9501	5773.1001	---	---
	Ant2	5755	36.155	5736.9488	5773.1038	---	---
	Ant1	5795	36.171	5776.8778	5813.0488	---	---
	Ant2	5795	36.137	5776.9501	5813.0871	---	---
11AC80MIMO	Ant1	5210	75.502	5172.3750	5247.8770	---	---
	Ant2	5210	75.419	5172.3246	5247.7436	---	---
	Ant1	5775	75.409	5737.1748	5812.5838	---	---
	Ant2	5775	75.497	5737.2845	5812.7815	---	---
11AX20MIMO	Ant1	5180	19.004	5170.5243	5189.5283	---	---
	Ant2	5180	18.984	5170.5244	5189.5084	---	---
	Ant1	5200	18.994	5190.5561	5209.5501	---	---
	Ant2	5200	19.034	5190.5294	5209.5634	---	---
	Ant1	5240	18.961	5230.5664	5249.5274	---	---
	Ant2	5240	18.972	5230.5398	5249.5118	---	---
	Ant1	5745	19.001	5735.5153	5754.5163	---	---
	Ant2	5745	19.004	5735.5445	5754.5485	---	---
	Ant1	5785	18.980	5775.5174	5794.4974	---	---
	Ant2	5785	19.001	5775.5475	5794.5485	---	---
	Ant1	5825	18.977	5815.5085	5834.4855	---	---
	Ant2	5825	19.010	5815.5308	5834.5408	---	---
11AX40MIMO	Ant1	5190	37.812	5171.1740	5208.9860	---	---
	Ant2	5190	37.877	5171.1182	5208.9952	---	---
	Ant1	5230	37.769	5211.1728	5248.9418	---	---
	Ant2	5230	37.802	5211.1314	5248.9334	---	---
	Ant1	5755	37.819	5736.1217	5773.9407	---	---
	Ant2	5755	37.782	5736.1424	5773.9244	---	---
	Ant1	5795	37.829	5776.0123	5813.8413	---	---
	Ant2	5795	37.749	5776.1499	5813.8989	---	---
11AX80MIMO	Ant1	5210	77.247	5171.4832	5248.7302	---	---
	Ant2	5210	77.023	5171.5511	5248.5741	---	---
	Ant1	5775	77.118	5736.2729	5813.3909	---	---
	Ant2	5775	77.346	5736.3520	5813.6980	---	---

5.5 Maximum Power Spectral Density

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 500 kHz, VBW = 1.5MHz for the band 5.725-5.85 GHz

Set RBW = 1 MHz, VBW = 3MHz for the band 5.150-5.250 GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/MHz	Limits
5150-5250	11dBm/MHz
5.25-5.35 GHz and 5.47-5.725 GHz	11dBm/MHz
5725-5850	30dBm/500kHz

WIFI(Rod antenna)

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Limit
	Antenna 1	Antenna 2		
5150-5250	2.30	2.30	5.31	11.00dBm/MHz
5725-5825	2.40	2.40	5.41	30.00dBm/500kHz

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

Directional gain is to be computed as follows:

transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.

WIFI(Patch antenna)

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Limit
	Antenna 1	Antenna 2		
5150-5250	0.77	0.77	3.78	11.00dBm/MHz
5725-5825	2.04	2.04	5.05	30.00dBm/500kHz

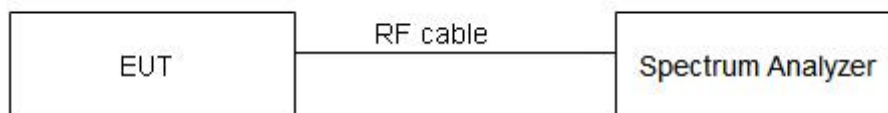
Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

Directional gain is to be computed as follows:

transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.88	≤11.00	PASS
	Ant2	5180	4.75	≤11.00	PASS
	Ant1	5200	7.05	≤11.00	PASS
	Ant2	5200	5.33	≤11.00	PASS
	Ant1	5240	7.76	≤11.00	PASS
	Ant2	5240	5.77	≤11.00	PASS
	Ant1	5745	0.54	≤30.00	PASS
	Ant2	5745	-3.65	≤30.00	PASS
	Ant1	5785	0.90	≤30.00	PASS
	Ant2	5785	-2.80	≤30.00	PASS
11N20MIMO	Ant1	5825	1.19	≤30.00	PASS
	Ant2	5825	-2.53	≤30.00	PASS
	Ant1	5180	6.12	≤11.00	PASS
	Ant2	5180	4.00	≤11.00	PASS
	total	5180	8.20	≤11.00	PASS
	Ant1	5200	6.11	≤11.00	PASS
	Ant2	5200	4.48	≤11.00	PASS
	total	5200	8.38	≤11.00	PASS
	Ant1	5240	7.18	≤11.00	PASS
	Ant2	5240	4.65	≤11.00	PASS
	total	5240	9.11	≤11.00	PASS
	Ant1	5745	-0.36	≤30.00	PASS
	Ant2	5745	-4.10	≤30.00	PASS
	total	5745	1.17	≤30.00	PASS
	Ant1	5785	0.27	≤30.00	PASS
	Ant2	5785	-2.63	≤30.00	PASS
	total	5785	2.07	≤30.00	PASS
	Ant1	5825	0.23	≤30.00	PASS
11N40MIMO	Ant2	5825	-2.13	≤30.00	PASS
	total	5825	2.22	≤30.00	PASS
	Ant1	5190	4.09	≤11.00	PASS
	Ant2	5190	1.89	≤11.00	PASS
	total	5190	6.14	≤11.00	PASS
	Ant1	5230	4.65	≤11.00	PASS
	Ant2	5230	2.38	≤11.00	PASS
	total	5230	6.67	≤11.00	PASS
	Ant1	5755	-2.26	≤30.00	PASS
	Ant2	5755	-4.92	≤30.00	PASS
11AC20MIMO	total	5755	-0.38	≤30.00	PASS
	Ant1	5795	-1.55	≤30.00	PASS
	Ant2	5795	-4.19	≤30.00	PASS
	total	5795	0.34	≤30.00	PASS
	Ant1	5180	6.19	≤11.00	PASS
	Ant2	5180	4.24	≤11.00	PASS
	total	5180	8.33	≤11.00	PASS
	Ant1	5200	6.41	≤11.00	PASS
	Ant2	5200	4.24	≤11.00	PASS
	total	5200	8.47	≤11.00	PASS
	Ant1	5240	7.37	≤11.00	PASS
	Ant2	5240	4.31	≤11.00	PASS
	total	5240	9.11	≤11.00	PASS
	Ant1	5745	-0.45	≤30.00	PASS
	Ant2	5745	-3.31	≤30.00	PASS
	total	5745	1.36	≤30.00	PASS
	Ant1	5785	0.38	≤30.00	PASS
	Ant2	5785	-2.21	≤30.00	PASS
	total	5785	2.29	≤30.00	PASS
	Ant1	5825	0.25	≤30.00	PASS
	Ant2	5825	-2.43	≤30.00	PASS
	total	5825	2.12	≤30.00	PASS

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11AC40MIMO	Ant1	5190	4.14	≤11.00	PASS
	Ant2	5190	1.97	≤11.00	PASS
	total	5190	6.20	≤11.00	PASS
	Ant1	5230	4.56	≤11.00	PASS
	Ant2	5230	2.46	≤11.00	PASS
	total	5230	6.65	≤11.00	PASS
	Ant1	5755	-2.15	≤30.00	PASS
	Ant2	5755	-4.92	≤30.00	PASS
	total	5755	-0.31	≤30.00	PASS
	Ant1	5795	-2.43	≤30.00	PASS
11AC80MIMO	Ant2	5795	-4.54	≤30.00	PASS
	total	5795	-0.35	≤30.00	PASS
	Ant1	5210	0.69	≤11.00	PASS
	Ant2	5210	-1.28	≤11.00	PASS
	total	5210	2.83	≤11.00	PASS
	Ant1	5775	-6.94	≤30.00	PASS
11AX20MIMO	Ant2	5775	-9.43	≤30.00	PASS
	total	5775	-5.00	≤30.00	PASS
	Ant1	5180	5.64	≤11.00	PASS
	Ant2	5180	3.53	≤11.00	PASS
	total	5180	7.72	≤11.00	PASS
	Ant1	5200	5.82	≤11.00	PASS
	Ant2	5200	3.75	≤11.00	PASS
	total	5200	7.92	≤11.00	PASS
	Ant1	5240	6.21	≤11.00	PASS
	Ant2	5240	4.51	≤11.00	PASS
	total	5240	8.45	≤11.00	PASS
	Ant1	5745	-1.60	≤30.00	PASS
	Ant2	5745	-5.00	≤30.00	PASS
	total	5745	0.03	≤30.00	PASS
	Ant1	5785	-1.15	≤30.00	PASS
	Ant2	5785	-3.46	≤30.00	PASS
	total	5785	0.86	≤30.00	PASS
	Ant1	5825	-1.46	≤30.00	PASS
	Ant2	5825	-3.96	≤30.00	PASS
	total	5825	0.48	≤30.00	PASS
11AX40MIMO	Ant1	5190	3.88	≤11.00	PASS
	Ant2	5190	1.50	≤11.00	PASS
	total	5190	5.86	≤11.00	PASS
	Ant1	5230	4.02	≤11.00	PASS
	Ant2	5230	2.09	≤11.00	PASS
	total	5230	6.17	≤11.00	PASS
	Ant1	5755	-4.26	≤30.00	PASS
	Ant2	5755	-7.13	≤30.00	PASS
	total	5755	-2.45	≤30.00	PASS
	Ant1	5795	-3.50	≤30.00	PASS
11AX80MIMO	Ant2	5795	-6.06	≤30.00	PASS
	total	5795	-1.58	≤30.00	PASS
	Ant1	5210	0.50	≤11.00	PASS
	Ant2	5210	-1.14	≤11.00	PASS
	total	5210	2.77	≤11.00	PASS
	Ant1	5775	-7.23	≤30.00	PASS
	Ant2	5775	-9.71	≤30.00	PASS
	total	5775	-5.14	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

3.Result=Reading+(10*LOG10(1/Duty Cycle[%])).

5.6 Frequency Stability

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

1. Frequency stability with respect to ambient temperature

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
 - b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
 - c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
 - d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
 - e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
 - f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
 - g) Measure the frequency at each of frequencies specified in 5.6.
 - h) Switch OFF the EUT but do not switch OFF the oscillator heater.
 - i) Lower the chamber temperature by not more than 10 C, and allow the temperature inside the chamber to stabilize.
 - j) Repeat step f) through step i) down to the lowest specified temperature.
- #### 2. Frequency stability when varying supply voltage

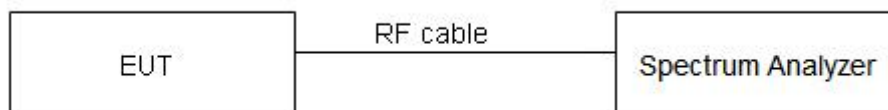
Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.
- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limits:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

TestMode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11A	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
	Ant2	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant1	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
	Ant2	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
	Ant1	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant2	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant1	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	20000.00	3.457217	20	PASS
	Ant2	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	20000.00	3.457217	20	PASS
	Ant1	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	40000.00	6.866953	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
	Ant2	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11N20MIMO	Ant1	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
	Ant2	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
	Ant1	5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	40000.00	7.692308	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
	Ant1	5240	NV	NT	40000.00	7.633588	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
	Ant2	5240	NV	NT	40000.00	7.633588	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
	Ant1	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant2	5745	NV	NT	60000.00	10.443864	20	PASS
			LV	NT	20000.00	3.481288	20	PASS

TestMode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant1	5785	HV	NT	-20000.00	-3.481288	20	PASS
			NV	NT	60000.00	10.371651	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
	Ant2	5785	HV	NT	20000.00	3.457217	20	PASS
			NV	NT	20000.00	3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
	Ant1	5825	HV	NT	20000.00	3.457217	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
	Ant2	5825	HV	NT	20000.00	3.433476	20	PASS
			NV	NT	60000.00	10.300429	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
11N40MIMO	Ant1	5190	HV	NT	60000.00	10.300429	20	PASS
			NV	NT	40000.00	7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5190	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
	Ant1	5230	HV	NT	40000.00	7.707129	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
	Ant2	5230	HV	NT	80000.00	15.296367	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant1	5755	HV	NT	40000.00	7.648184	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
	Ant2	5755	HV	NT	40000.00	6.950478	20	PASS
			NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant1	5795	HV	NT	0.00	0.000000	20	PASS
			NV	NT	40000.00	6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5795	HV	NT	40000.00	6.902502	20	PASS
			NV	NT	80000.00	13.805004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
11AC20MIMO	Ant1	5180	HV	NT	40000.00	6.902502	20	PASS
			NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	HV	NT	20000.00	3.861004	20	PASS
			NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
	Ant1	5200	HV	NT	20000.00	3.846154	20	PASS
			NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	HV	NT	40000.00	7.692308	20	PASS
			NV	NT	20000.00	3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant1	5240	HV	NT	40000.00	7.692308	20	PASS
			NV	NT	20000.00	3.816794	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
	Ant2	5240	HV	NT	20000.00	3.816794	20	PASS
			NV	NT	40000.00	7.633588	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
	Ant1	5745	HV	NT	40000.00	7.633588	20	PASS
			NV	NT	20000.00	3.481288	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
	Ant2	5745	HV	NT	20000.00	3.481288	20	PASS
			NV	NT	40000.00	6.962576	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	20000.00	3.481288	20	PASS

Voltage								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	Ant1	5785	NV	NT	40000.00	6.914434	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	20000.00	3.457217	20	PASS
	Ant2	5785	NV	NT	40000.00	6.914434	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
	Ant1	5825	NV	NT	40000.00	6.866953	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
	Ant2	5825	NV	NT	40000.00	6.866953	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
11AC40MI MO	Ant1	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
	Ant2	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80MI MO	Ant1	5210	NV	NT	80000.00	15.355086	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	15.355086	20	PASS
	Ant2	5210	NV	NT	80000.00	15.355086	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS
	Ant1	5775	NV	NT	80000.00	13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX20MI MO	Ant1	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
	Ant1	5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	40000.00	7.692308	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
	Ant2	5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
Ant1	5240	NV	NT	40000.00	7.633588	20	PASS	

TestMode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant2	5240	LV	NT	20000.00	3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
			NV	NT	40000.00	7.633588	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
	Ant1	5745	NV	NT	40000.00	6.962576	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	40000.00	6.962576	20	PASS
	Ant2	5745	NV	NT	40000.00	6.962576	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant1	5785	NV	NT	40000.00	6.914434	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
	Ant2	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	40000.00	6.914434	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
	Ant1	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	40000.00	6.866953	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
	Ant2	5825	NV	NT	40000.00	6.866953	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
11AX40MI MO	Ant1	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant2	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant1	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant2	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant1	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
	Ant2	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
	Ant1	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
	Ant2	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
11AX80MI MO	Ant1	5210	NV	NT	80000.00	15.355086	20	PASS
			LV	NT	80000.00	15.355086	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11A	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
	Ant2	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	20000.00	3.861004	20	PASS
	Ant1	5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	40000.00	7.692308	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS
	Ant2	5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	60000.00	11.538462	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	60000.00	11.538462	20	PASS
			NV	50	20000.00	3.846154	20	PASS
	Ant1	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
	Ant2	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	20000.00	3.816794	20	PASS
			NV	50	20000.00	3.816794	20	PASS
	Ant1	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant2	5745	NV	40	20000.00	3.481288	20	PASS
			NV	50	20000.00	3.481288	20	PASS
			NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
	Ant1	5785	NV	50	40000.00	6.962576	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant2	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant1	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	20000.00	3.433476	20	PASS
	Ant2	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	40000.00	6.866953	20	PASS
			NV	50	20000.00	3.433476	20	PASS
11N20MIM O	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
	Ant2	5180	NV	50	0.00	0.000000	20	PASS
			NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
	Ant1	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	60000.00	11.538462	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	60000.00	11.538462	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	60000.00	11.538462	20	PASS
			NV	-30	40000.00	7.692308	20	PASS
	Ant2	5200	NV	-20	20000.00	3.846154	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	20000.00	3.846154	20	PASS
			NV	-30	20000.00	3.816794	20	PASS
	Ant1	5240	NV	-20	20000.00	3.816794	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	20000.00	3.816794	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
	Ant2	5240	NV	-20	40000.00	7.633588	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	0.00	0.000000	20	PASS
	Ant1	5745	NV	-20	60000.00	10.443864	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	20000.00	3.481288	20	PASS
			NV	-30	20000.00	3.481288	20	PASS
	Ant2	5745	NV	-20	20000.00	3.481288	20	PASS
			NV	-10	60000.00	10.443864	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	20000.00	3.481288	20	PASS
	Ant1	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.457217	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	20000.00	3.457217	20	PASS
	Ant2	5785	NV	50	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	20000.00	3.457217	20	PASS
	Ant1	5825	NV	40	20000.00	3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	40000.00	6.866953	20	PASS
11N40MIM O		5825	NV	30	40000.00	6.866953	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	60000.00	10.300429	20	PASS
	Ant2	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.866953	20	PASS
		5190	NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	20000.00	3.433476	20	PASS
	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	80000.00	15.414258	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5190	NV	50	-40000.00	-7.707129	20	PASS
			NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
	Ant1	5230	NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	0.00	0.000000	20	PASS
	Ant2	5230	NV	30	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.648184	20	PASS
	Ant2	5230	NV	-30	0.00	0.000000	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	80000.00	15.296367	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.902502	20	PASS
	Ant2	5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
11AC20MI MO	Ant1	5180	NV	50	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.722008	20	PASS
	Ant2	5180	NV	40	20000.00	3.861004	20	PASS
			NV	50	40000.00	7.722008	20	PASS
			NV	-30	20000.00	3.861004	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	60000.00	11.583012	20	PASS
			NV	40	20000.00	3.861004	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant1	5200	NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.692308	20	PASS
			NV	-20	60000.00	11.538462	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	40000.00	7.692308	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
	Ant2	5200	NV	50	0.00	0.000000	20	PASS
			NV	-30	40000.00	7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	40000.00	7.692308	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	40000.00	7.692308	20	PASS
	Ant1	5240	NV	50	60000.00	11.538462	20	PASS
			NV	-30	60000.00	11.450382	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
	Ant2	5240	NV	50	40000.00	7.633588	20	PASS
			NV	-30	20000.00	3.816794	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	20000.00	3.816794	20	PASS
	Ant1	5745	NV	50	40000.00	7.633588	20	PASS
			NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
	Ant2	5745	NV	50	20000.00	3.481288	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
	Ant1	5785	NV	50	40000.00	6.962576	20	PASS
			NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	30	20000.00	3.457217	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant2	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	20000.00	3.457217	20	PASS
			NV	-30	0.00	0.000000	20	PASS
	Ant1	5825	NV	-20	40000.00	6.866953	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	20000.00	3.433476	20	PASS
	Ant2	5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	60000.00	10.300429	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
11AC40MI MO	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.707129	20	PASS
	Ant2	5190	NV	50	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.707129	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.707129	20	PASS
	Ant1	5230	NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.414258	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	80000.00	15.296367	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.648184	20	PASS
	Ant2	5230	NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	80000.00	15.296367	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	10	80000.00	15.296367	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.648184	20	PASS
	Ant1	5755	NV	50	0.00	0.000000	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
	Ant2	5755	NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.950478	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	80000.00	13.900956	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	80000.00	13.900956	20	PASS
	Ant1	5795	NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	80000.00	13.805004	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
	Ant2	5795	NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	80000.00	13.805004	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
11AC80MI MO	Ant1	5210	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	80000.00	15.355086	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	-80000.00	-15.355086	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
	Ant2	5210	NV	0	80000.00	15.355086	20	PASS
			NV	10	-80000.00	-15.355086	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.355086	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	-10	0.00	0.000000	20	PASS
			NV	0	80000.00	13.852814	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-80000.00	-13.852814	20	PASS
			NV	40	80000.00	13.852814	20	PASS
	Ant2	5775	NV	50	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AX20MI MO	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
	Ant2	5180	NV	50	40000.00	7.722008	20	PASS
			NV	-30	20000.00	3.861004	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	40000.00	7.722008	20	PASS
	Ant1	5200	NV	40	60000.00	11.583012	20	PASS
			NV	50	20000.00	3.861004	20	PASS
			NV	-30	40000.00	7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	40000.00	7.692308	20	PASS
	Ant2	5200	NV	30	40000.00	7.692308	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	40000.00	7.692308	20	PASS
			NV	-30	20000.00	3.846154	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	40000.00	7.692308	20	PASS
	Ant1	5240	NV	20	20000.00	3.846154	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	40000.00	7.692308	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	60000.00	11.450382	20	PASS
	Ant2	5240	NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
	Ant1	5240	NV	50	40000.00	7.633588	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	40000.00	7.633588	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant2	5240	NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	20000.00	3.816794	20	PASS
	Ant1	5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	40000.00	6.962576	20	PASS
	Ant2	5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
	Ant1	5785	NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
	Ant2	5785	NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
	Ant1	5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS
			NV	50	40000.00	6.866953	20	PASS
	Ant2	5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	40000.00	6.866953	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11AX40MI MO			NV	40	40000.00	6.866953	20	PASS
			NV	50	40000.00	6.866953	20	PASS
	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
	Ant2	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
	Ant1	5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
	Ant2	5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
	Ant1	5755	NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
	Ant2	5755	NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
	Ant1	5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS

TestMode	Antenna	Freq(MHz)	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
11AX80MI MO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	80000.00	15.355086	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.355086	20	PASS
	Ant2	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	80000.00	15.355086	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	80000.00	15.355086	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	80000.00	13.852814	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5775	NV	-30	80000.00	13.852814	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	80000.00	13.852814	20	PASS
			NV	30	80000.00	13.852814	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

5.7.2 UNII Detection Bandwidth

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

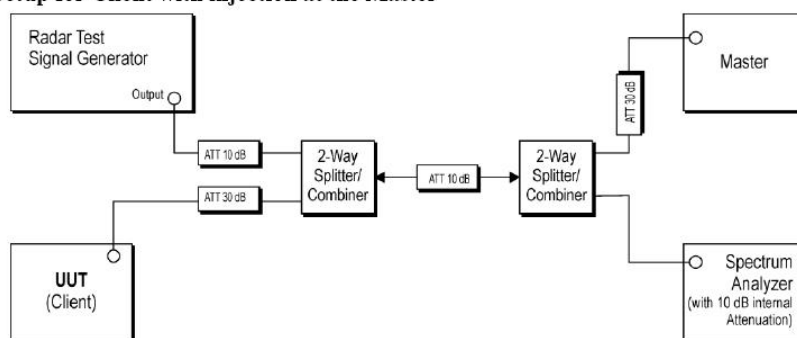
Limits:

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)
20	N/A	N/A
40	N/A	N/A
80	N/A	N/A

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

5.7.3 Channel Availability Check (CAC)

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

Refer as FCC 06-96 Appendix, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.

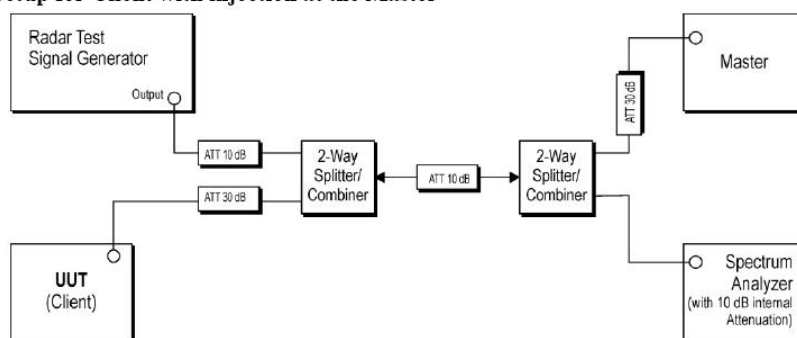
Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

Limits:

Channel Availability Check Limit
☒ The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

5.7.4 In-service Monitoring

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

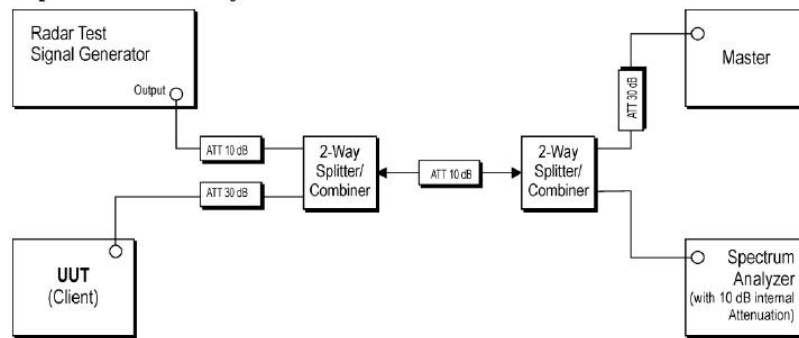
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

Limits:

In-service Monitoring Limit	
Channel Move Time	10 sec
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.
Non-occupancy period	Minimum 30 minutes

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

5.7.5 Statistical Performance Check

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.4 for Statistical Performance Check test. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Limits:

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

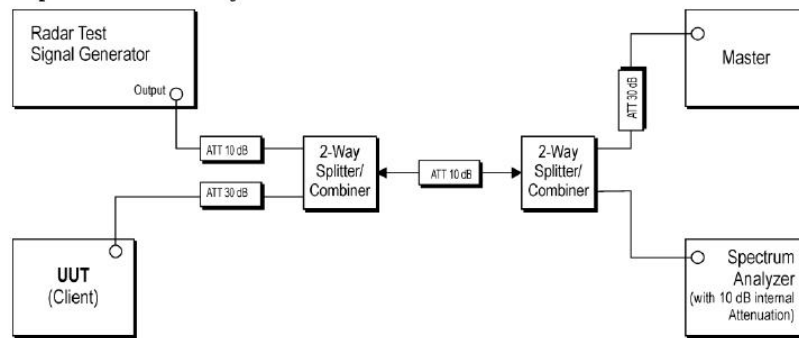
$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{\text{Pd1} + \text{Pd2} + \text{Pd3} + \text{Pd4}}{4}$$

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

6. Appendix X

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Communication Shielded Room 2	4m*3m*3m	CRTDSWKS44301	/	CRT	2027/04/22
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2026/03/27
UXA signal analyzer	N9040B	US57212256	DZ-000466	KEYSIGHT	2025/12/17
RF Radio Frequency Switch	JS0806-2	19H9080187	DZ-000241	Tonscend	2026/03/27
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2026/04/10
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	EM-000557	COMTEST	2027/02/01
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2026/01/01
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2025/12/26
EMI Test Receiver	ESR7	102235	EM-000574	R&S	2026/01/05
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2026/06/03
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2026/06/08
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2025/08/03
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2025/12/02
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2026/06/02
Temperature and humidity meter	MHO-C201	/	DZ-000249-2	Seconds test	2025/07/28
Temperature and humidity meter	MHO-C201	/	DZ-000249-5	Seconds test	2025/07/28

Dynacomm	Software Release	Software Developer
TS1120-3 Test System(Conduction test)	3.3.38	Tonscend
TS+ (5m,Radiation test)	JS32-RE 5.0.0	Tonscend

————— No Body Text Below —————

Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “—” or “ N/A” means “not applicable”, “ / ”means “not testing”, “P” means “pass” and “F” means “fail”.

Address: No.3,Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663 Tel: 020-32293888

FAX: 020 32293889 E-mail: office@cvc.org.cn