

FCC PART 15E
Measurement and Test Report
For
Faytech Tech.Co., Ltd.

FCC ID:2BQK4FT156BX6413EAC

FCC Rule(s)/Methods:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2020
Product Description:	Capacitive Touch PC
Trademark	/
Model/Type reference.:	FT156BX6413EACAPOB
Report No.:	MAX25080502750033F-3
Date of receipt of test item	: Jul. 18, 2025
Date of sampling	: Jul. 18, 2025
Tested Date:	Jul. 18, 2025 to Aug. 05, 2025
Issued Date:	Aug. 05, 2025
Tested By:	Lris Yao/ Engineer
Reviewed By:	Levi Xiao/ EMC Manager
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1. VERSION

Report No.	Version	Description	Approved
MAX25080502750033F-3	Rev.01	Initial issue of report	Aug. 05, 2025

2.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.209(a) 15.407 (b)	Spurious Radiated Emissions	PASS	
Duty Cycle	KDB 789033	--	
15.207	Conducted Emission	PASS	
15.407 (a)(12) 2.1049	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	6 dB bandwidth	--	
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power&Eirp	PASS	
2.1051, 15.407(b)(1) 15.407(b)(4)	Band Edge	PASS	
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test method: KDB 789033 D02 v01r02, KDB 662911 D01 Multiple Transmitter Output v02r01

2.1 TEST FACILITY

MAXLAB Testing Co., Ltd.

Add. : 1/F, Building B, Xinshidai GR Park, Shiyao Street, Bao'an District, Shenzhen, Shiyao Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

FCC Test Firm Registration Number: 562200

Designation Number: CN1338

IC Registered No.: 11093A

Designation Number: CN0019

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 % .

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Applicant:	Faytech Tech.Co., Ltd.	
Address of applicant:	Room 202A, 202B, 2F, Building 8, Yunli Intelligent Park, Bantian Street, Longgang District, Shenzhen	
Manufacturer:	Faytech Tech.Co.,Ltd.	
Address of manufacturer:	Room 202A and 202B, 2/F, Building 8, Yunli intelligent Park No.7 Changta Road. Yangmei Community. Bantian Street. Longgano District, Shenzhen City,Guangdong Province, P.R. China	
Product Name:	Capacitive Touch PC	
Model No.:	FT156BX6413EACAPOB	
Model Different.:	N/A	
Sample ID	N/A	
Sample(s) Status:	Engineer sample	
Product Description	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/n/ac (20MHz channel bandwidth)
	Data Rate	802.11a:6/9/12/18/24/36/48/54Mbps 802.11n(HT20):MCS0-MCS7 802.11ac(VHT20):MCS0-MCS8
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n/ac 20
	Operating Frequency Range	☒ 5180-5240MHz for 802.11a/n/ac(HT20)
	Number of Channels	☒ 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band
Channel List	Please refer to the Note 2.	
Antenna Type:	External antenna	
Antenna gain:	ANT1 : 2.03dBi	
HVIN/Hardware version:	V1.0	
FVIN/Software version:	V1.0	
Power supply:	12V===5A	
Adapter:	Input:100-240V~, 50/60Hz, 1.5A Max Output:12V===5A	

802.11a/n/ac(20MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220				
40	5200	48	5240				

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Pretest Mode	Description
Mode 1	802.11a/n 20/ac 20 CH36/ CH40/ CH 48

Conducted Emission	
Final Test Mode	Description
Mode 1	802.11a CH36

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a CH36

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

Test Software	Realtek Test Tool
Power level setup	<20dBm

51803.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

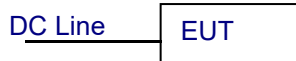
Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/
/	/	/	/	/	/

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	BSL252	2024-10-27	2025-10-26
EMI Test Receiver	R&S	ESCI 7	BSL552	2024-10-27	2025-10-26
Coaxial Switch	ANRITSU CORP	MP59B	BSL225	2024-10-27	2025-10-26
ENV216 2-L-V-NETZNACH B.DE	ROHDE&SCHW ARZ	ENV216	BSL226	2024-10-27	2025-10-26
Coaxial Cable	BSL	N/A	BSL227	N/A	N/A
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Thermo meter	KTJ	TA328	BSL233	2024-10-27	2025-10-26
Absorbing clamp	Elektronik-Feinm echanik	MDS21	BSL229	2024-10-27	2025-10-26
LISN	R&S	ENV216	308	2024-10-27	2025-10-26
LISN	R&S	ENV216	314	2024-10-27	2025-10-26

Radiation Test equipment					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
3m Semi-Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)*6.4(H)	BSL250	2024-10-27	2025-10-26
Control Room	ZhongYu Electron	6.2(L)*2.5(W)*2.4(H)	BSL251	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	BSL203	2024-10-27	2025-10-26
BiConiLog Antenna	SCHWARZBEC K MESS-ELEKTRON IK	VULB9163	BSL214	2024-10-27	2025-10-26
Double -ridged waveguide horn	SCHWARZBEC K MESS-ELEKTRON IK	BBHA 9120 D	BSL208	2024-10-27	2025-10-26
Horn Antenna	ETS-LINDGREN	3160	BSL217	2024-10-27	2025-10-26
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Coaxial Cable	BSL	N/A	BSL213	2024-10-27	2025-10-26
Coaxial Cable	BSL	N/A	BSL211	2024-10-27	2025-10-26
Coaxial cable	BSL	N/A	BSL210	2024-10-27	2025-10-26
Coaxial Cable	BSL	N/A	BSL212	2024-10-27	2025-10-26
Amplifier(100kHz-3GHz)	HP	8347A	BSL204	2024-10-27	2025-10-26
Amplifier(2GHz-20GHz)	HP	84722A	BSL206	2024-10-27	2025-10-26
Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	BSL218	2024-10-27	2025-10-26
Band filter	Amindeon	82346	BSL219	2024-10-27	2025-10-26
Power Meter	Anritsu	ML2495A	BSL540	2024-10-27	2025-10-26
Power Sensor	Anritsu	MA2411B	BSL541	2024-10-27	2025-10-26
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	BSL575	2024-10-27	2025-10-26
Splitter	Agilent	11636B	BSL237	2024-10-27	2025-10-26
Loop Antenna	ZHINAN	ZN30900A	BSL534	2024-10-27	2025-10-26

Breitband hornantenne	SCHWARZBEC K	BBHA 9170	BSL579	2024-10-27	2025-10-26
Amplifier	TDK	PA-02-02	BSL574	2024-10-27	2025-10-26
Amplifier	TDK	PA-02-03	BSL576	2024-10-27	2025-10-26
PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP40	BSL578	2024-10-27	2025-10-26

RF Conducted Test:					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
MXA Signal Analyzer	Agilent	N9020A	BSL566	2024-10-27	2025-10-26
EMI Test Receiver	R&S	ESCI 7	BSL552	2024-10-27	2025-10-26
Spectrum Analyzer	Agilent	E4440A	BSL533	2024-10-27	2025-10-26
MXG vector Signal Generator	Agilent	N5182A	BSL567	2024-10-27	2025-10-26
ESG Analog Signal Generator	Agilent	E4428C	BSL568	2024-10-27	2025-10-26
USB RF Power Sensor	DARE	RPR3006W	BSL569	2024-10-27	2025-10-26
RF Switch Box	Shongyi	RFSW3003328	BSL571	2024-10-27	2025-10-26
Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-8 80	BSL572	2024-10-27	2025-10-26

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020 RSS-Gen Section 8.8
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

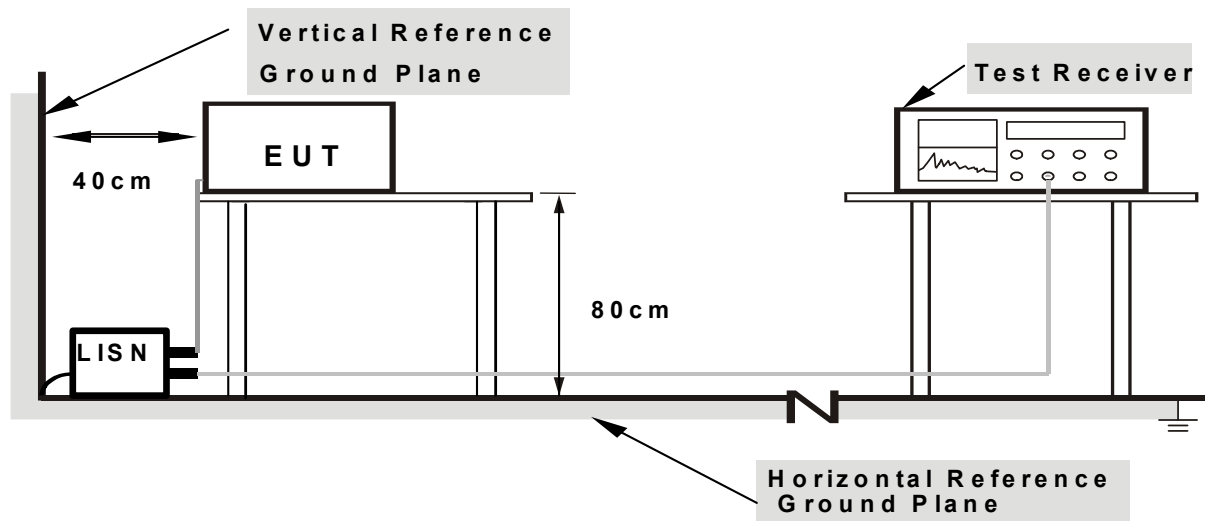
4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

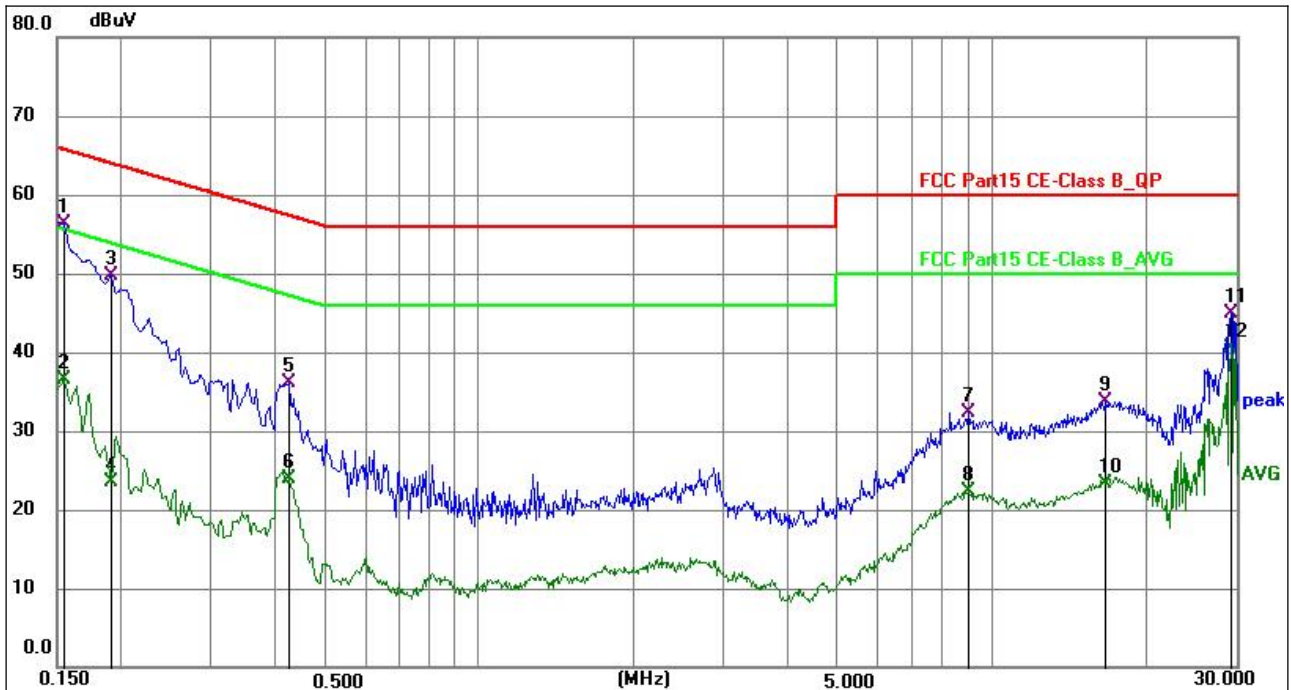
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT (Worst case 802.11a 5180MHz-ANT1)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		

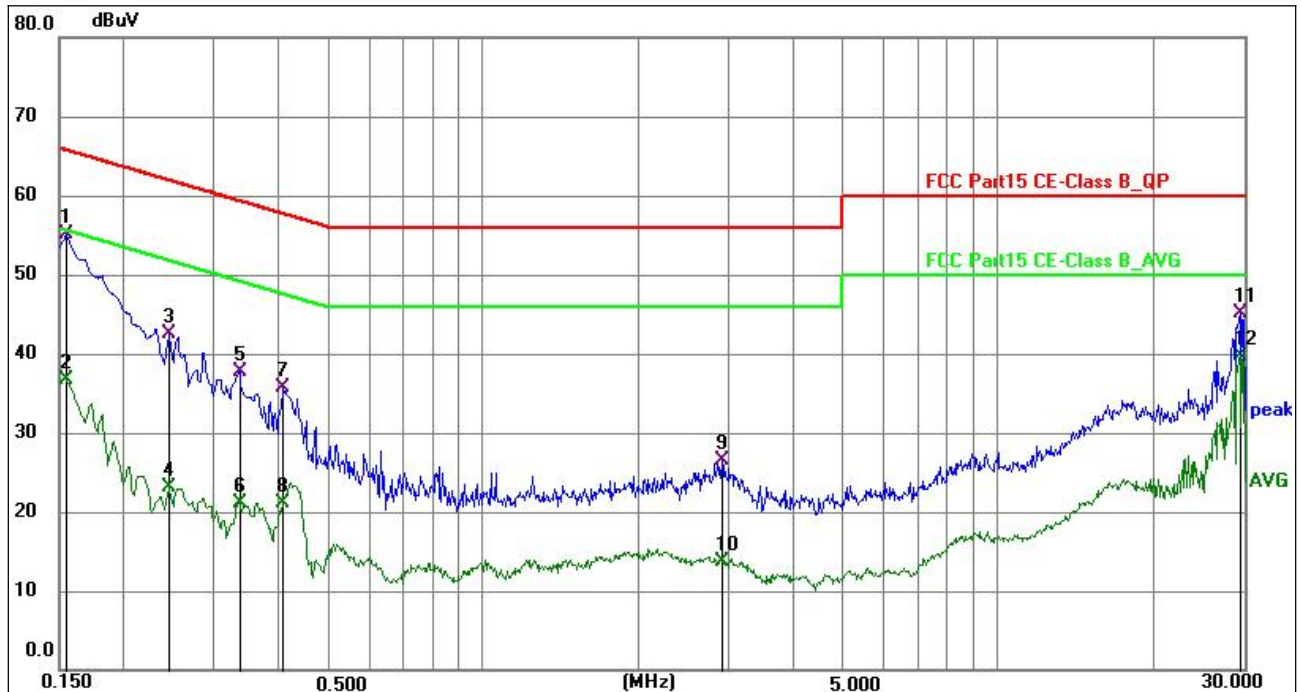


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1544	46.54	9.76	56.30	65.76	-9.46	QP	P	
2	0.1544	26.83	9.76	36.59	55.76	-19.17	AVG	P	
3	0.1905	39.93	9.80	49.73	64.01	-14.28	QP	P	
4	0.1905	13.80	9.80	23.60	54.01	-30.41	AVG	P	
5	0.4244	26.27	9.77	36.04	57.36	-21.32	QP	P	
6	0.4244	14.14	9.77	23.91	47.36	-23.45	AVG	P	
7	9.0239	22.54	9.75	32.29	60.00	-27.71	QP	P	
8	9.0239	12.50	9.75	22.25	50.00	-27.75	AVG	P	
9	16.6829	24.00	9.78	33.78	60.00	-26.22	QP	P	
10	16.6829	13.54	9.78	23.32	50.00	-26.68	AVG	P	
11	29.3100	35.16	9.68	44.84	60.00	-15.16	QP	P	
12	29.3100	30.76	9.68	40.44	50.00	-9.56	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	45.42	9.68	55.10	65.75	-10.65	QP	P	
2	0.1545	27.01	9.68	36.69	55.75	-19.06	AVG	P	
3	0.2445	32.84	9.71	42.55	61.94	-19.39	QP	P	
4	0.2445	13.44	9.71	23.15	51.94	-28.79	AVG	P	
5	0.3345	28.10	9.70	37.80	59.34	-21.54	QP	P	
6	0.3345	11.44	9.70	21.14	49.34	-28.20	AVG	P	
7	0.4065	26.09	9.70	35.79	57.72	-21.93	QP	P	
8	0.4065	11.37	9.70	21.07	47.72	-26.65	AVG	P	
9	2.9130	16.81	9.71	26.52	56.00	-29.48	QP	P	
10	2.9130	3.96	9.71	13.67	46.00	-32.33	AVG	P	
11	29.5170	35.36	9.73	45.09	60.00	-14.91	QP	P	
12 *	29.5170	30.00	9.73	39.73	50.00	-10.27	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209 RSS-247 Section 3.3 & RSS-Gen Section 8.9, RSS-247 Section 6.2&6.2.1.2&6.2.4.2

4.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For FCC Band Edge Limit:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

(7) The provisions of § 15.205 apply to intentional radiators operating under this section.

For IC Band Edge Limit:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

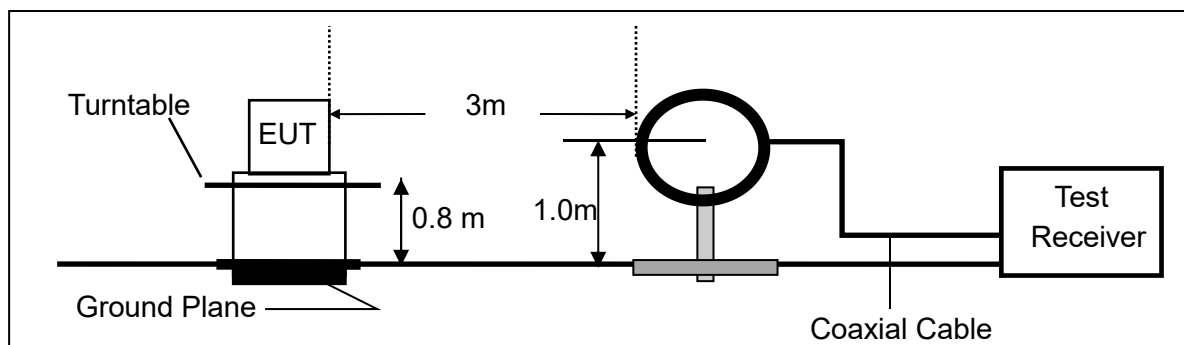
d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

4.2.3 MEASURING INSTRUMENTS

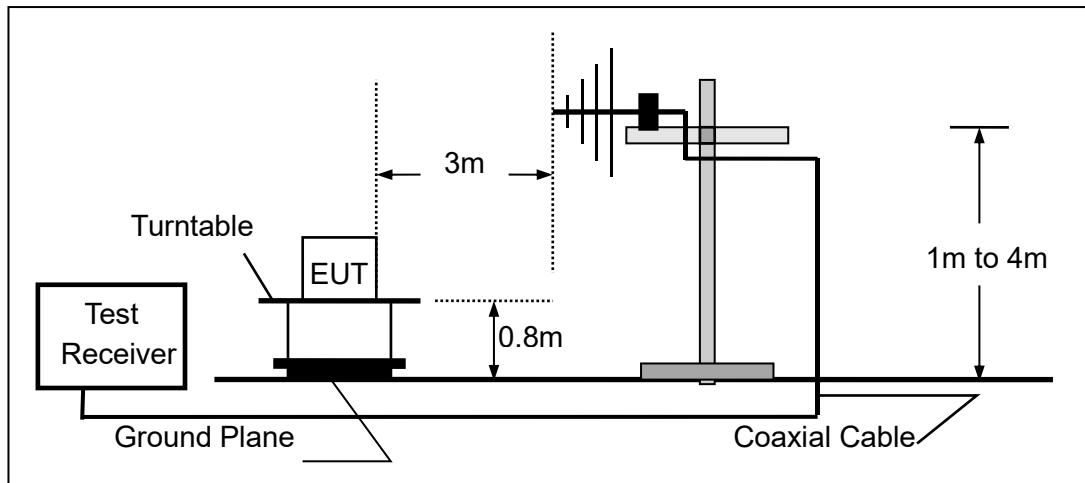
The Measuring equipment is listed in the section 6.3 of this test report.

4.2.4 TEST CONFIGURATION

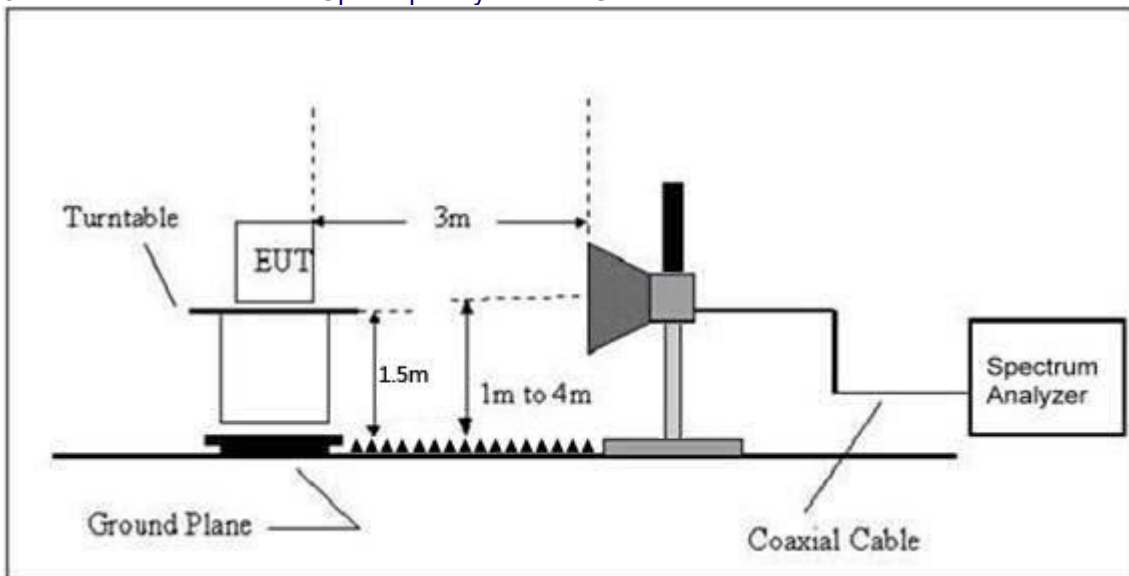
1. For radiated emissions below 30 MHz



2. For radiated emissions from 30MHz to 1000MHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

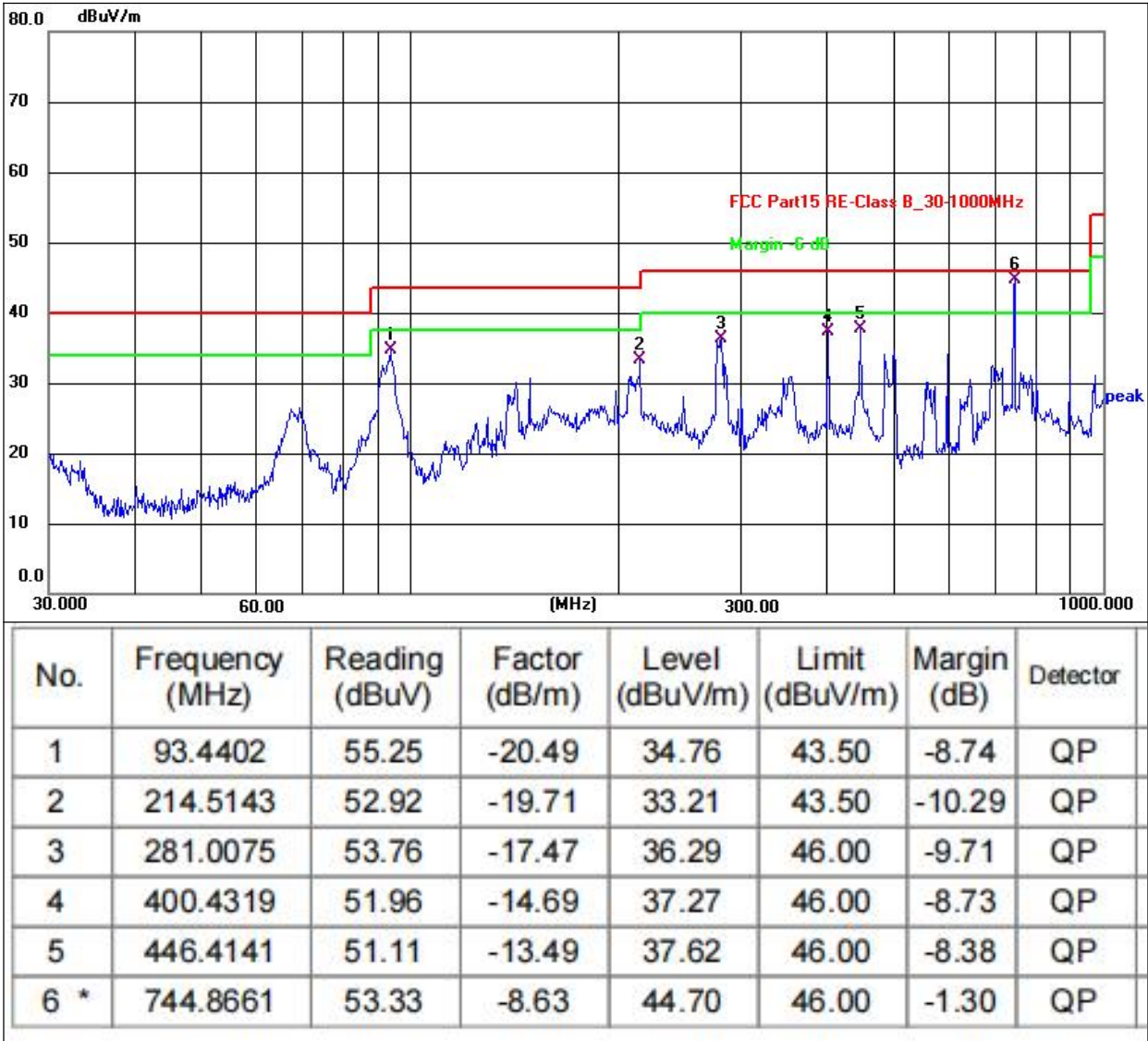
4.2.6 TEST RESULT

Between 9KHz – 30MHz

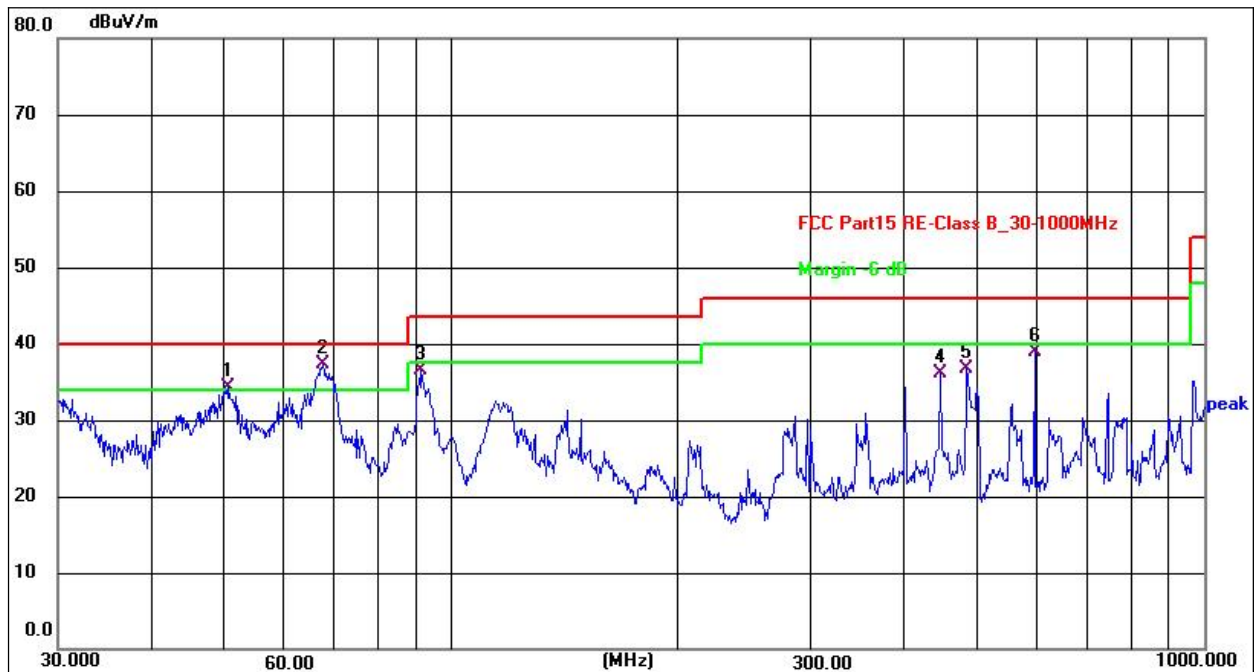
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz
(Worst case 802.11a 5180MHz-ANT1)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	50.5860	50.96	-16.71	34.25	40.00	-5.75	QP
2 *	67.4382	56.06	-18.81	37.25	40.00	-2.75	QP
3	91.1745	57.22	-20.63	36.59	43.50	-6.91	QP
4	446.4140	49.57	-13.49	36.08	46.00	-9.92	QP
5	483.9094	49.84	-13.06	36.78	46.00	-9.22	QP
6	595.1327	49.75	-10.90	38.85	46.00	-7.15	QP

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11n20 5180mode

Between 1GHz – 40GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	5.2G TX- 802.11a/n20/ac 20(Worst case)		

802.11a ANT1

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360.00	53.82	30.55	5.77	24.66	53.70	74.00	-20.30	PK
V	10360.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
V	15540.00	52.26	30.33	6.32	24.55	52.80	74.00	-21.20	PK
V	15540.00	43.46	30.33	6.32	24.55	44.00	54.00	-10.00	AV
V	20720.00	53.81	30.85	7.45	24.69	55.10	74.00	-18.90	PK
V	20720.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
V	25900.00	53.86	31.02	8.99	25.57	57.40	74.00	-16.60	PK
V	25900.00	43.16	31.02	8.99	25.57	46.70	54.00	-7.30	AV
H	10360.00	50.04	30.55	5.77	24.66	49.92	74.00	-24.08	PK
H	10360.00	44.00	30.55	5.77	24.66	43.88	54.00	-10.12	AV
H	15540.00	51.48	30.33	6.32	24.55	52.02	74.00	-21.98	PK
H	15540.00	43.83	30.33	6.32	24.55	44.37	54.00	-9.63	AV
H	20720.00	50.05	30.85	7.45	24.69	51.34	74.00	-22.66	PK
H	20720.00	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
H	25900.00	52.46	31.02	8.99	25.57	56.00	74.00	-18.00	PK
H	25900.00	43.68	31.02	8.99	25.57	47.22	54.00	-6.78	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400.00	52.11	30.55	5.77	24.66	51.99	74.00	-22.01	PK
V	10400.00	43.06	30.55	5.77	24.66	42.94	54.00	-11.06	AV
V	15600.00	50.48	30.33	6.32	24.55	51.02	74.00	-22.98	PK
V	15600.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	20800.00	53.39	30.85	7.45	24.69	54.68	74.00	-19.32	PK
V	20800.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
V	26000.00	52.16	31.02	8.99	25.57	55.70	74.00	-18.30	PK
V	26000.00	43.36	31.02	8.99	25.57	46.90	54.00	-7.10	AV
H	10400.00	52.92	30.55	5.77	24.66	52.80	74.00	-21.20	PK
H	10400.00	43.51	30.55	5.77	24.66	43.39	54.00	-10.61	AV
H	15600.00	53.56	30.33	6.32	24.55	54.10	74.00	-19.90	PK
H	15600.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
H	20800.00	52.72	30.85	7.45	24.69	54.01	74.00	-19.99	PK
H	20800.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
H	26000.00	54.16	31.02	8.99	25.57	57.70	74.00	-16.30	PK
H	26000.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480.00	52.32	30.55	5.77	24.66	52.20	74.00	-21.80	PK
V	10480.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
V	15720.00	53.97	30.33	6.32	24.55	54.51	74.00	-19.49	PK
V	15720.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
V	20960.00	50.75	30.85	7.45	24.69	52.04	74.00	-21.96	PK
V	20960.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	26200.00	53.91	31.02	8.99	25.57	57.45	74.00	-16.55	PK
V	26200.00	43.67	31.02	8.99	25.57	47.21	54.00	-6.79	AV
H	10480.00	53.23	30.55	5.77	24.66	53.11	74.00	-20.89	PK
H	10480.00	43.34	30.55	5.77	24.66	43.22	54.00	-10.78	AV
H	15720.00	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	PK
H	15720.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	20960.00	51.75	30.85	7.45	24.69	53.04	74.00	-20.96	PK
H	20960.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
H	26200.00	53.41	31.02	8.99	25.57	56.95	74.00	-17.05	PK
H	26200.00	43.33	31.02	8.99	25.57	46.87	54.00	-7.13	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360.00	51.15	30.55	5.77	24.66	51.03	74.00	-22.97	PK
V	10360.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
V	15540.00	50.12	30.33	6.32	24.55	50.66	74.00	-23.34	PK
V	15540.00	43.58	30.33	6.32	24.55	44.12	54.00	-9.88	AV
V	20720.00	53.07	30.85	7.45	24.69	54.36	74.00	-19.64	PK
V	20720.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
V	25900.00	52.24	31.02	8.99	25.57	55.78	74.00	-18.22	PK
V	25900.00	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV
H	10360.00	52.29	30.55	5.77	24.66	52.17	74.00	-21.83	PK
H	10360.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	15540.00	54.38	30.33	6.32	24.55	54.92	74.00	-19.08	PK
H	15540.00	43.87	30.33	6.32	24.55	44.41	54.00	-9.59	AV
H	20720.00	52.69	30.85	7.45	24.69	53.98	74.00	-20.02	PK
H	20720.00	43.80	30.85	7.45	24.69	45.09	54.00	-8.91	AV
H	25900.00	51.61	31.02	8.99	25.57	55.15	74.00	-18.85	PK
H	25900.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400.00	52.77	30.55	5.77	24.66	52.65	74.00	-21.35	PK
V	10400.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
V	15600.00	51.34	30.33	6.32	24.55	51.88	74.00	-22.12	PK
V	15600.00	43.07	30.33	6.32	24.55	43.61	54.00	-10.39	AV
V	20800.00	50.74	30.85	7.45	24.69	52.03	74.00	-21.97	PK
V	20800.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
V	26000.00	50.85	31.02	8.99	25.57	54.39	74.00	-19.61	PK
V	26000.00	43.60	31.02	8.99	25.57	47.14	54.00	-6.86	AV
H	10400.00	54.44	30.55	5.77	24.66	54.32	74.00	-19.68	PK
H	10400.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
H	15600.00	50.90	30.33	6.32	24.55	51.44	74.00	-22.56	PK
H	15600.00	43.21	30.33	6.32	24.55	43.75	54.00	-10.25	AV
H	20800.00	52.82	30.85	7.45	24.69	54.11	74.00	-19.89	PK
H	20800.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
H	26000.00	52.58	31.02	8.99	25.57	56.12	74.00	-17.88	PK
H	26000.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480.00	53.28	30.55	5.77	24.66	53.16	74.00	-20.84	PK
V	10480.00	43.22	30.55	5.77	24.66	43.10	54.00	-10.90	AV
V	15720.00	52.63	30.33	6.32	24.55	53.17	74.00	-20.83	PK
V	15720.00	43.35	30.33	6.32	24.55	43.89	54.00	-10.11	AV
V	20960.00	51.83	30.85	7.45	24.69	53.12	74.00	-20.88	PK
V	20960.00	43.33	30.85	7.45	24.69	44.62	54.00	-9.38	AV
V	26200.00	52.25	31.02	8.99	25.57	55.79	74.00	-18.21	PK
V	26200.00	43.16	31.02	8.99	25.57	46.70	54.00	-7.30	AV
H	10480.00	50.61	30.55	5.77	24.66	50.49	74.00	-23.51	PK
H	10480.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	15720.00	52.48	30.33	6.32	24.55	53.02	74.00	-20.98	PK
H	15720.00	43.52	30.33	6.32	24.55	44.06	54.00	-9.94	AV
H	20960.00	51.60	30.85	7.45	24.69	52.89	74.00	-21.11	PK
H	20960.00	43.23	30.85	7.45	24.69	44.52	54.00	-9.48	AV
H	26200.00	51.28	31.02	8.99	25.57	54.82	74.00	-19.18	PK
H	26200.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360.00	52.27	30.55	5.77	24.66	52.15	74.00	-21.85	PK
V	10360.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
V	15540.00	50.23	30.33	6.32	24.55	50.77	74.00	-23.23	PK
V	15540.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
V	20720.00	54.81	30.85	7.45	24.69	56.10	74.00	-17.90	PK
V	20720.00	43.24	30.85	7.45	24.69	44.53	54.00	-9.47	AV
V	25900.00	51.92	31.02	8.99	25.57	55.46	74.00	-18.54	PK
V	25900.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	10360.00	50.65	30.55	5.77	24.66	50.53	74.00	-23.47	PK
H	10360.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
H	15540.00	54.00	30.33	6.32	24.55	54.54	74.00	-19.46	PK
H	15540.00	43.36	30.33	6.32	24.55	43.90	54.00	-10.10	AV
H	20720.00	50.89	30.85	7.45	24.69	52.18	74.00	-21.82	PK
H	20720.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
H	25900.00	51.42	31.02	8.99	25.57	54.96	74.00	-19.04	PK
H	25900.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400.00	51.98	30.55	5.77	24.66	51.86	74.00	-22.14	PK
V	10400.00	43.41	30.55	5.77	24.66	43.29	54.00	-10.71	AV
V	15600.00	53.29	30.33	6.32	24.55	53.83	74.00	-20.17	PK
V	15600.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
V	20800.00	50.67	30.85	7.45	24.69	51.96	74.00	-22.04	PK
V	20800.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
V	26000.00	54.93	31.02	8.99	25.57	58.47	74.00	-15.53	PK
V	26000.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	10400.00	52.32	30.55	5.77	24.66	52.20	74.00	-21.80	PK
H	10400.00	43.23	30.55	5.77	24.66	43.11	54.00	-10.89	AV
H	15600.00	53.74	30.33	6.32	24.55	54.28	74.00	-19.72	PK
H	15600.00	43.40	30.33	6.32	24.55	43.94	54.00	-10.06	AV
H	20800.00	52.44	30.85	7.45	24.69	53.73	74.00	-20.27	PK
H	20800.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
H	26000.00	51.56	31.02	8.99	25.57	55.10	74.00	-18.90	PK
H	26000.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480.00	50.50	30.55	5.77	24.66	50.38	74.00	-23.62	PK
V	10480.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
V	15720.00	53.70	30.33	6.32	24.55	54.24	74.00	-19.76	PK
V	15720.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
V	20960.00	54.60	30.85	7.45	24.69	55.89	74.00	-18.11	PK
V	20960.00	43.12	30.85	7.45	24.69	44.41	54.00	-9.59	AV
V	26200.00	51.18	31.02	8.99	25.57	54.72	74.00	-19.28	PK
V	26200.00	43.77	31.02	8.99	25.57	47.31	54.00	-6.69	AV
H	10480.00	53.03	30.55	5.77	24.66	52.91	74.00	-21.09	PK
H	10480.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
H	15720.00	52.20	30.33	6.32	24.55	52.74	74.00	-21.26	PK
H	15720.00	43.90	30.33	6.32	24.55	44.44	54.00	-9.56	AV
H	20960.00	54.82	30.85	7.45	24.69	56.11	74.00	-17.89	PK
H	20960.00	43.12	30.85	7.45	24.69	44.41	54.00	-9.59	AV
H	26200.00	52.82	31.02	8.99	25.57	56.36	74.00	-17.64	PK
H	26200.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4.-27dBm(EIRP)=68.3dBuV/m(Field strength at 3m), According to the test results of the above table, while fulfill the requirements of out-of-band spurious

Restrict Band EMISSION MEASUREMENT
U-NII-1

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n(dB)	Detect or Type
802.11a	Low Channel: 5180MHz									
	H	5150	53.41	30.22	4.85	23.98	52.02	74.00	-21.98	PK
	H	5150	44.16	30.22	4.85	23.98	42.77	54.00	-11.23	AV
	H	5145	54.33	30.22	4.85	23.98	52.94	74.00	-21.06	PK
	H	5145	44.65	30.22	4.85	23.98	43.26	54.00	-10.74	AV
	V	5150	53.77	30.22	4.85	23.98	52.38	74.00	-21.62	PK
	V	5150	44.67	30.22	4.85	23.98	43.28	54.00	-10.72	AV
	V	5145	53.70	30.22	4.85	23.98	52.31	74.00	-21.69	PK
	V	5145	44.14	30.22	4.85	23.98	42.75	54.00	-11.25	AV
	High Channel: 5230MHz									
	H	5350	53.46	30.22	4.85	23.98	52.07	74.00	-21.93	PK
	H	5350	44.08	30.22	4.85	23.98	42.69	54.00	-11.31	AV
	H	5370	53.59	30.22	4.85	23.98	52.20	74.00	-21.80	PK
	H	5370	44.16	30.22	4.85	23.98	42.77	54.00	-11.23	AV
	V	5350	54.43	30.22	4.85	23.98	53.04	74.00	-20.96	PK
	V	5350	44.49	30.22	4.85	23.98	43.10	54.00	-10.90	AV
	V	5370	53.78	30.22	4.85	23.98	52.39	74.00	-21.61	PK
	V	5370	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV

Remark:

Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier, Margin= Emission Level - Limit
 . The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

All the modes have tested and recorded the worst mode(802.11a) in the report

5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(3)&RSS 247 section 6.2.1.1/6.2.4.1

Power limits For FCC:

- (1) For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 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.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, 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.
- (2) 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.
- (3) 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST METHOD

KDB662911 D01 MULTIPLE TRANSMITTER OUTPUT V02R01
KDB789033 D02 GENERAL U-NII TEST PROCEDURES NEW RULES V02R01, SECTION F

5.5 TEST SETUP



5.6 EUT OPERATION CONDITIONS

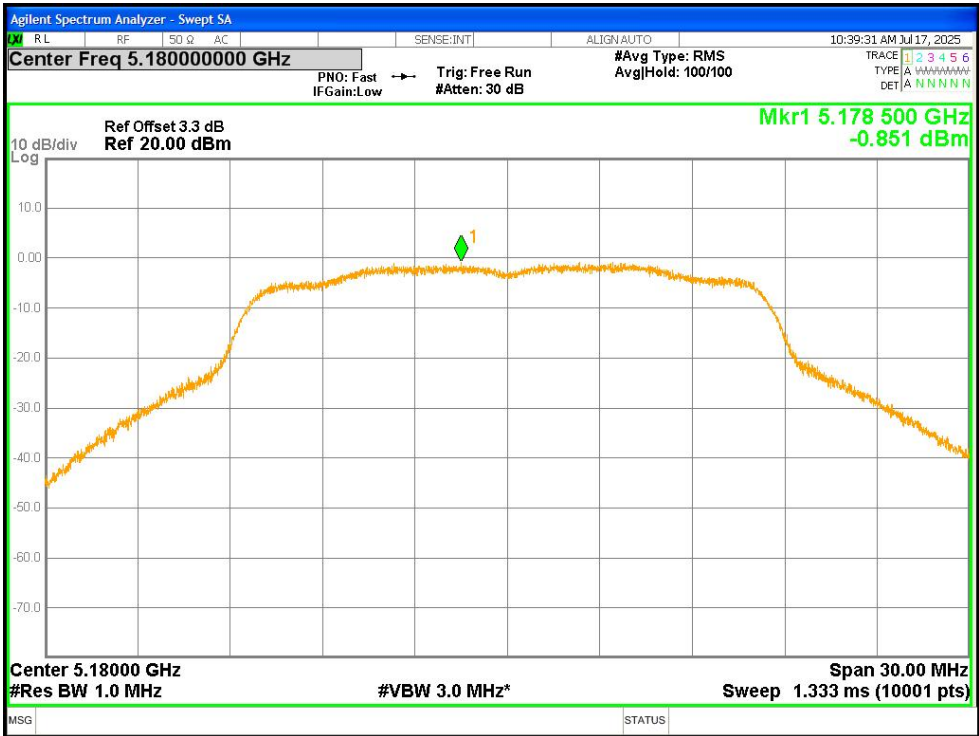
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.7 TEST RESULTS

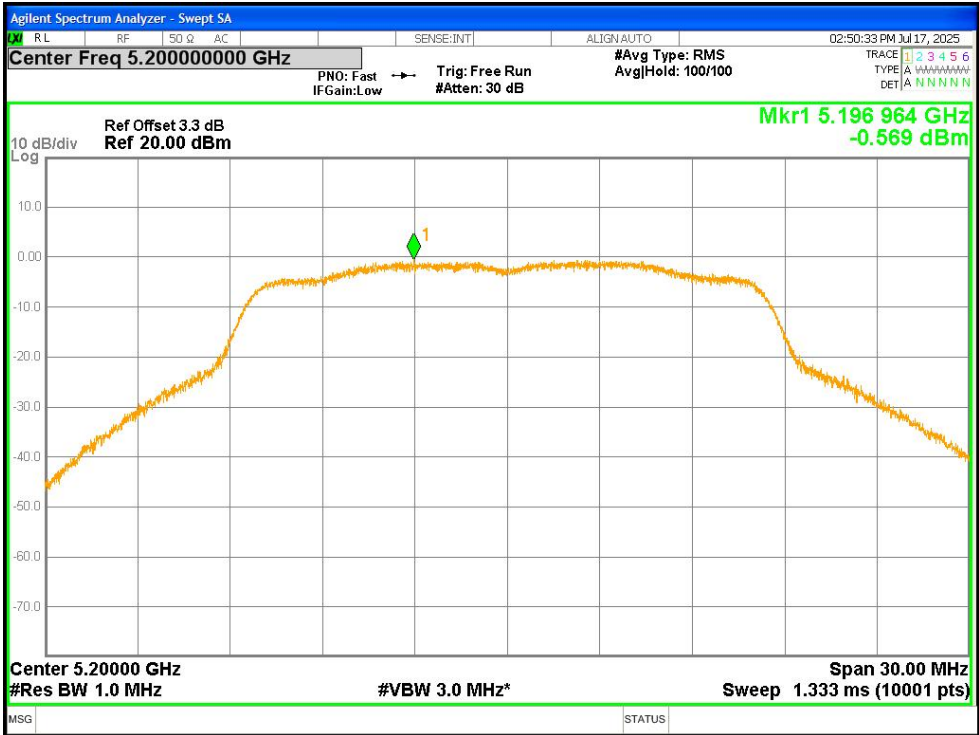
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1015 hPa	Test Voltage:	AC 120V/60Hz
Test Mode :	TX		

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)	Duty cycle factor	Average Level	Limit dBm/MHz
			ANT1			
U-NII-1	802.11a	Low	-0.85	0.1	-0.75	11
		Middle	-0.57	0.1	-0.47	11
		High	-1.57	0	-1.57	11
	802.11n(HT20)	Low	-1.35	0.76	-0.59	11
		Middle	-0.89	0	-0.89	11
		High	-1.58	0	-1.58	11
	802.11ac(HT20)	Low	0.11	0	0.11	11
		Middle	0.96	0	0.96	11
		High	0.16	0	0.16	11

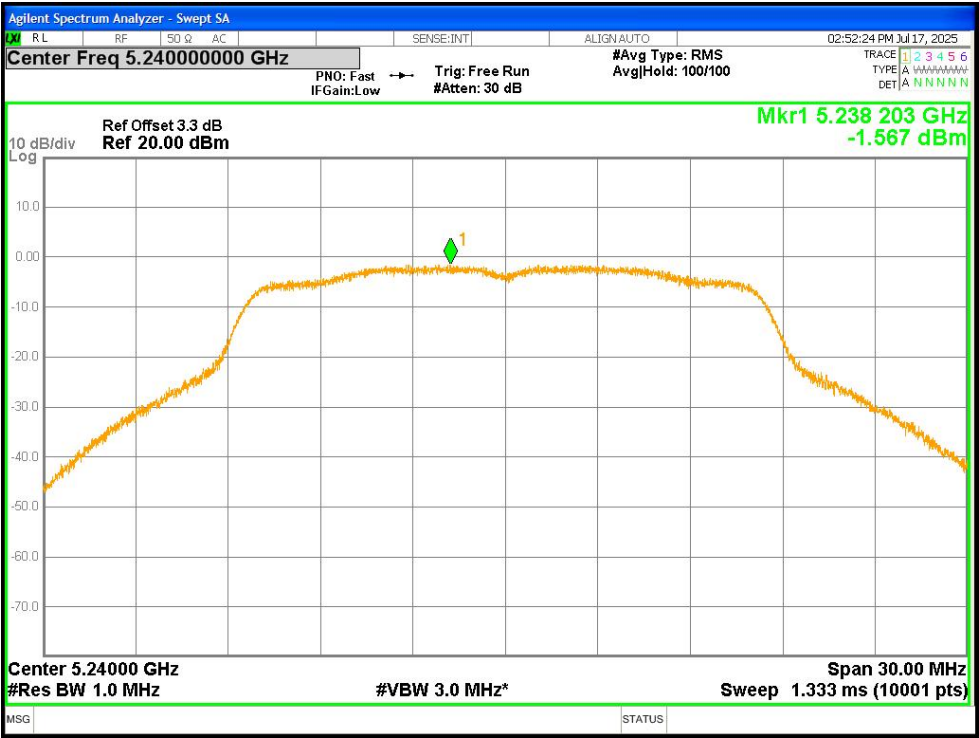
ANT 1



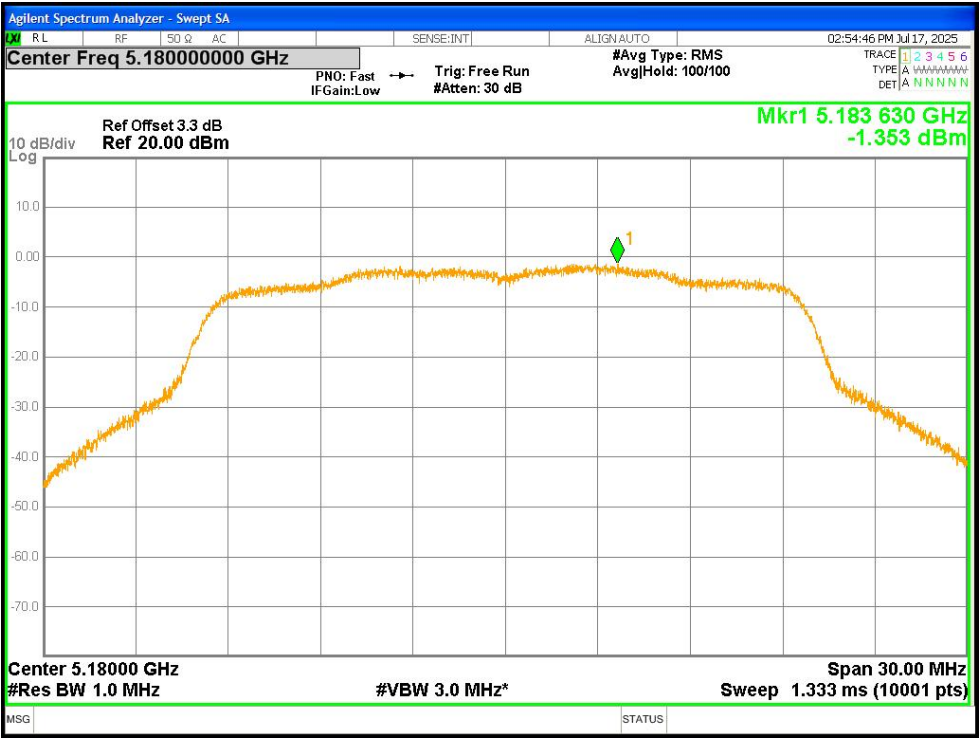
PSD NVNT a 5180MHz ANT1



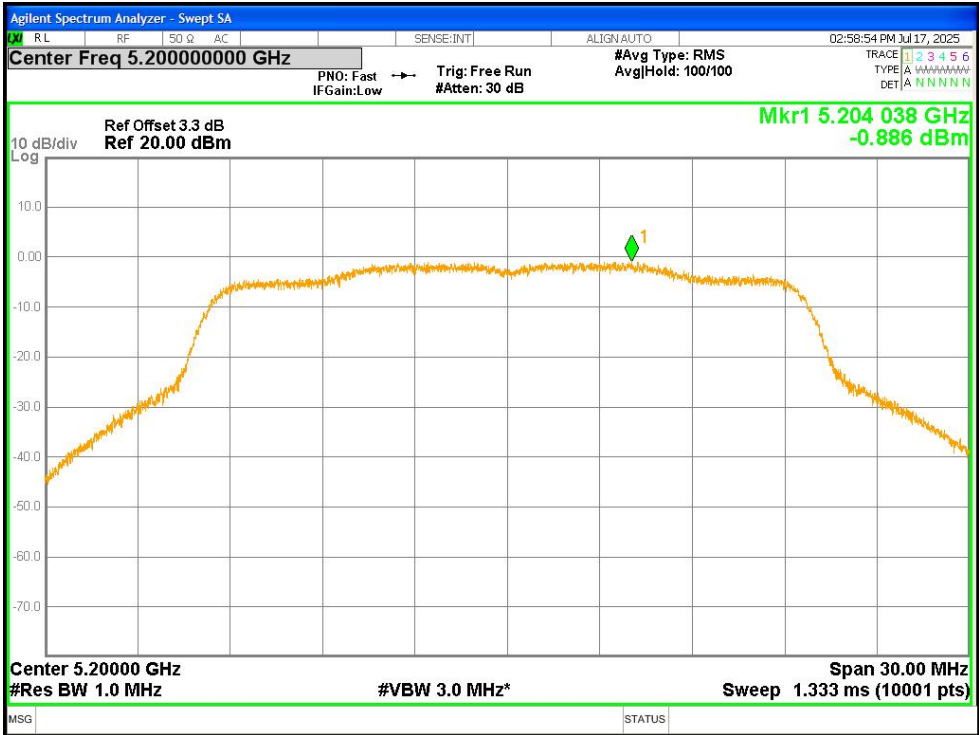
PSD NVNT a 5200MHz ANT1



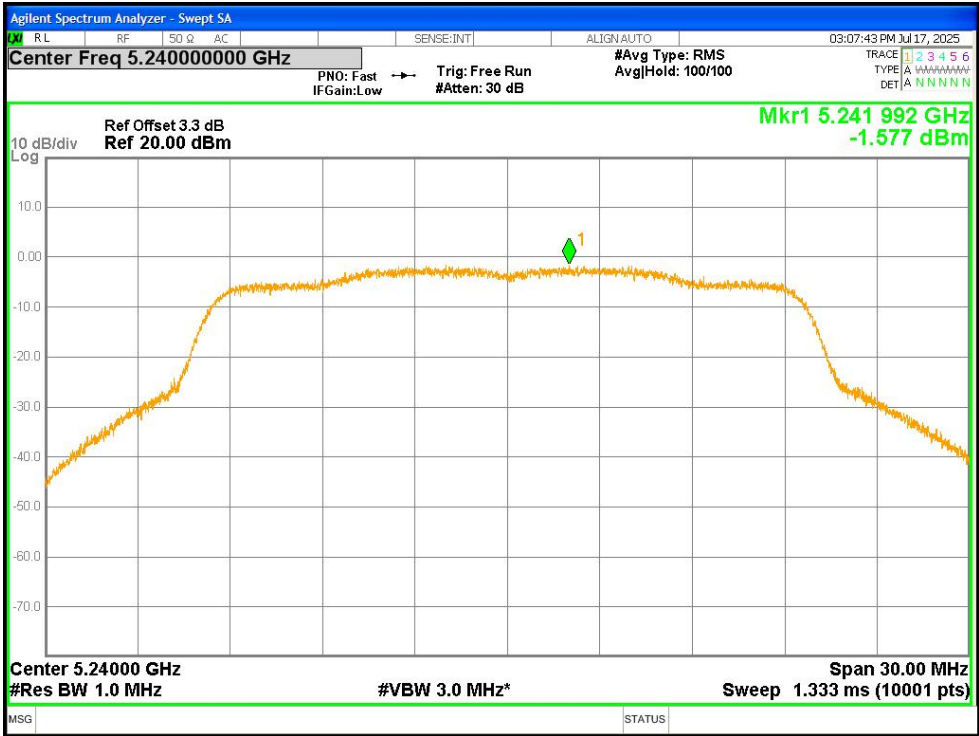
PSD NVNT a 5240MHz ANT1



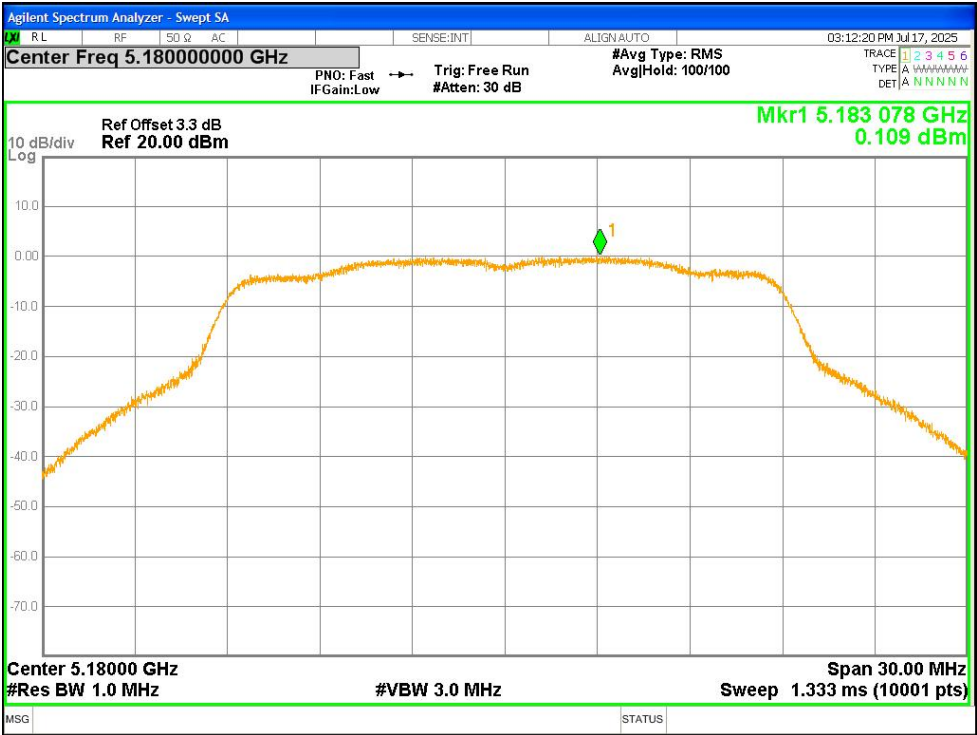
PSD NVNT n20 5180MHz ANT1



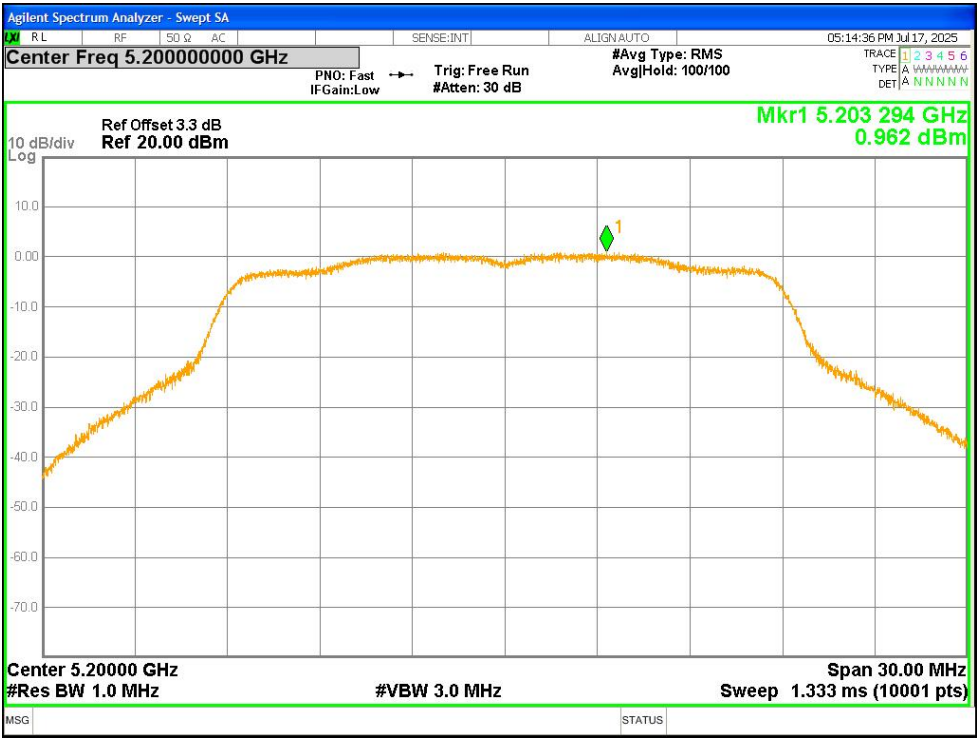
PSD NVNT n20 5200MHz ANT1



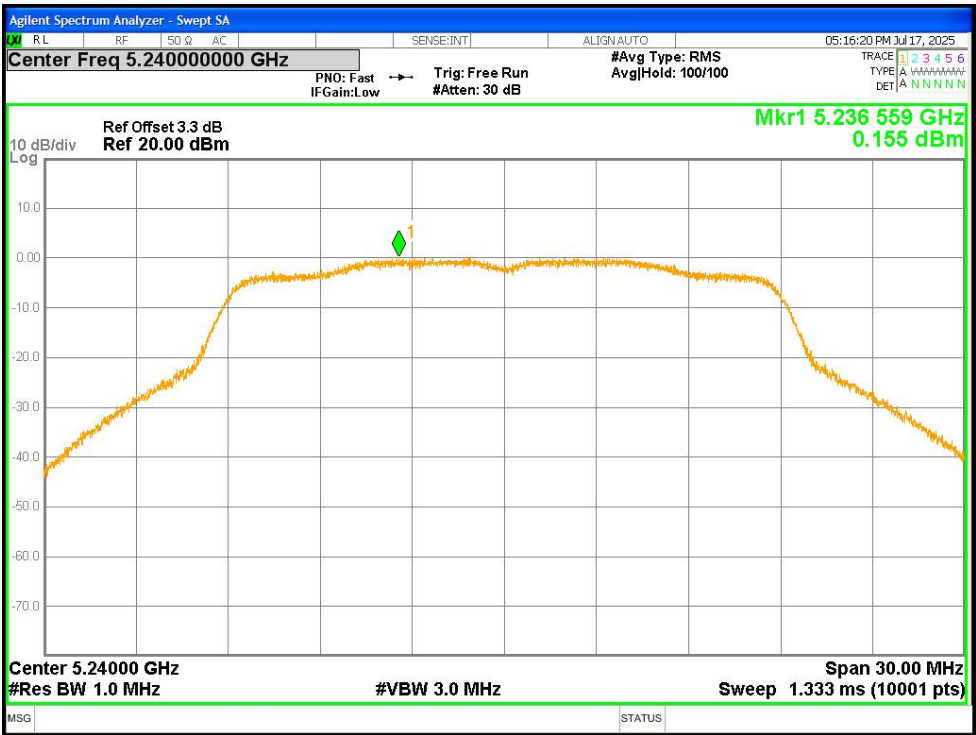
PSD NVNT n20 5240MHz ANT1



PSD NVNT ac20 5180MHz ANT1



PSD NVNT ac20 5200MHz ANT1



PSD NVNT ac20 5240MHz ANT1

6.26DB & 6DB & 99% EMISSION BANDWIDTH**6.1 APPLIED PROCEDURES / LIMIT**

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

IC BW Limit

Frequency band 5725-5850 MHz:

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Frequency band 5150-5250 MHz

The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

6.2 TEST PROCEDURE

- a) Set RBW = 100KHz.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) 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.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



6.3 EUT OPERATION CONDITIONS

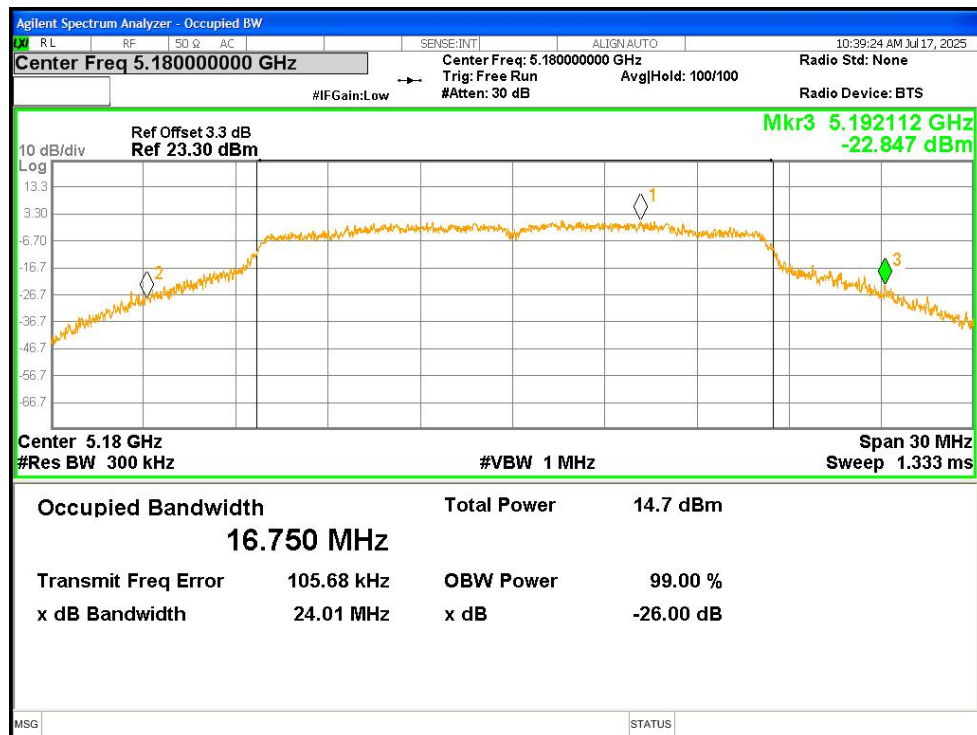
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.4 TEST RESULTS

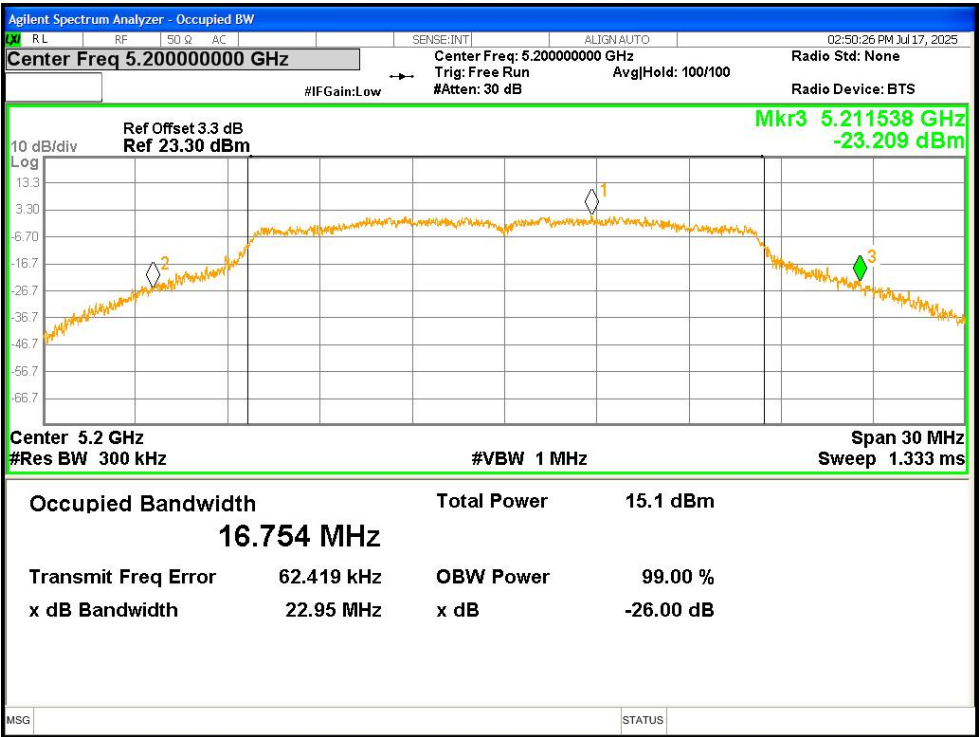
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX		

ANT 1

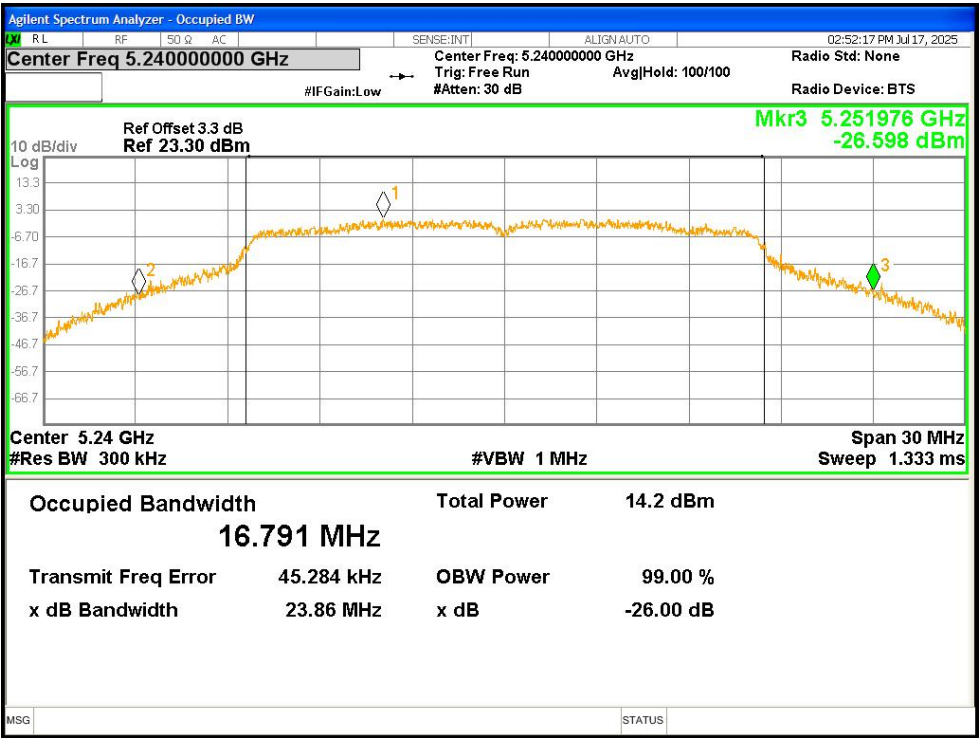
Band	Operation mode	26 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-1 (ANT1)	802.11a	24.013	22.952	23.862
	802.11n(HT20)	23.063	22.671	22.422
	802.11ac(HT20)	23.949	24.282	24.239



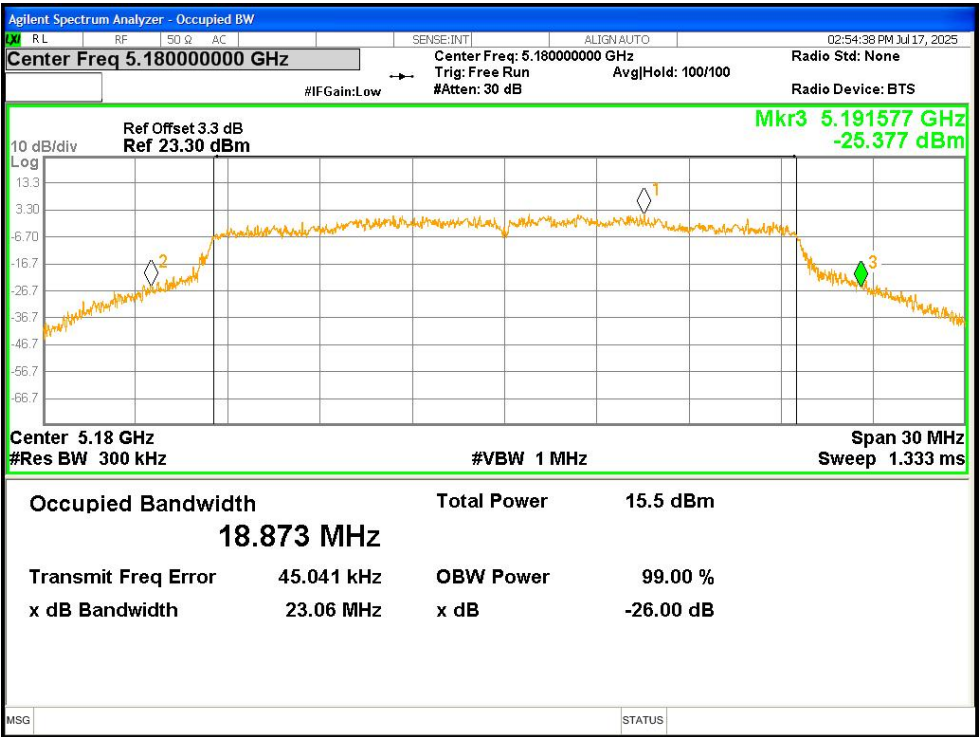
-26dB Bandwidth NVNT a 5180MHz ANT1



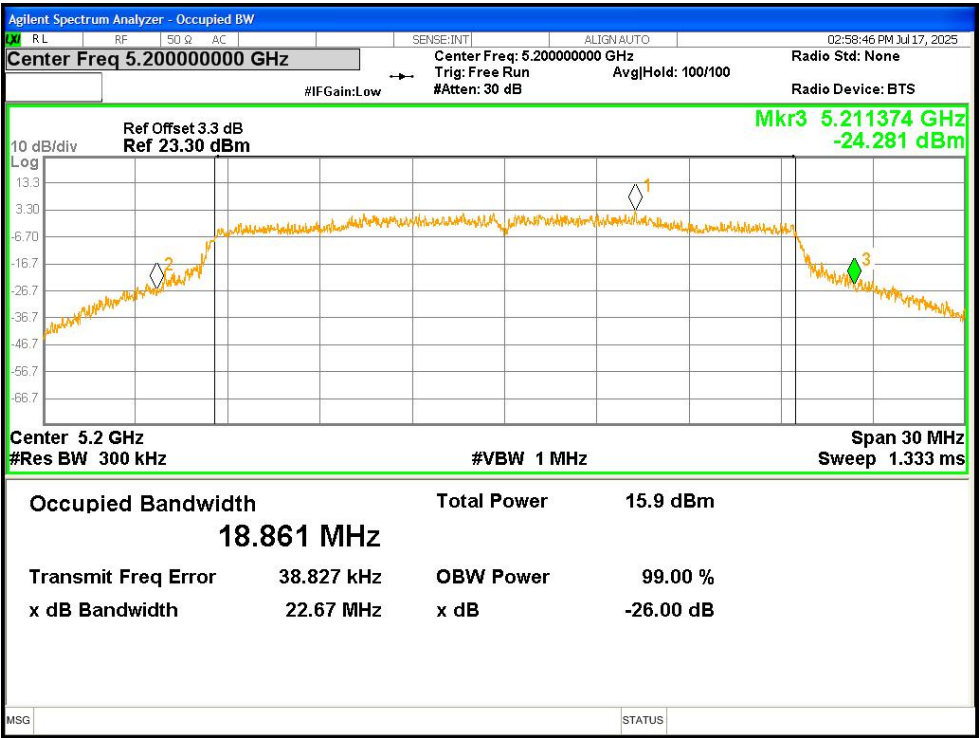
-26dB Bandwidth NVNT a 5200MHz ANT1



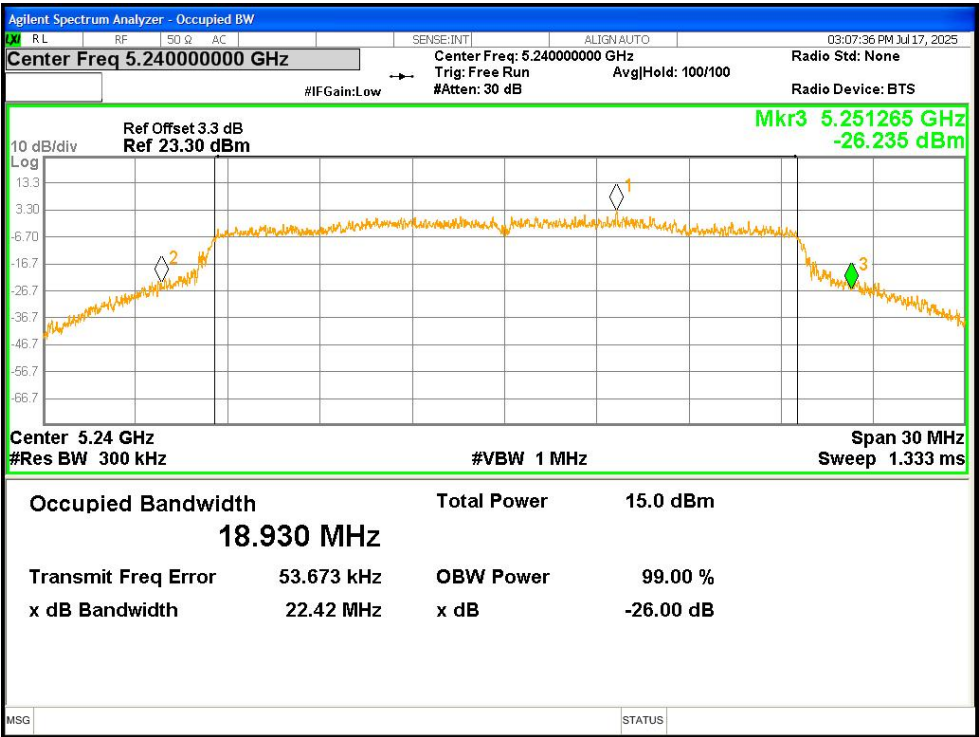
-26dB Bandwidth NVNT a 5240MHz ANT1



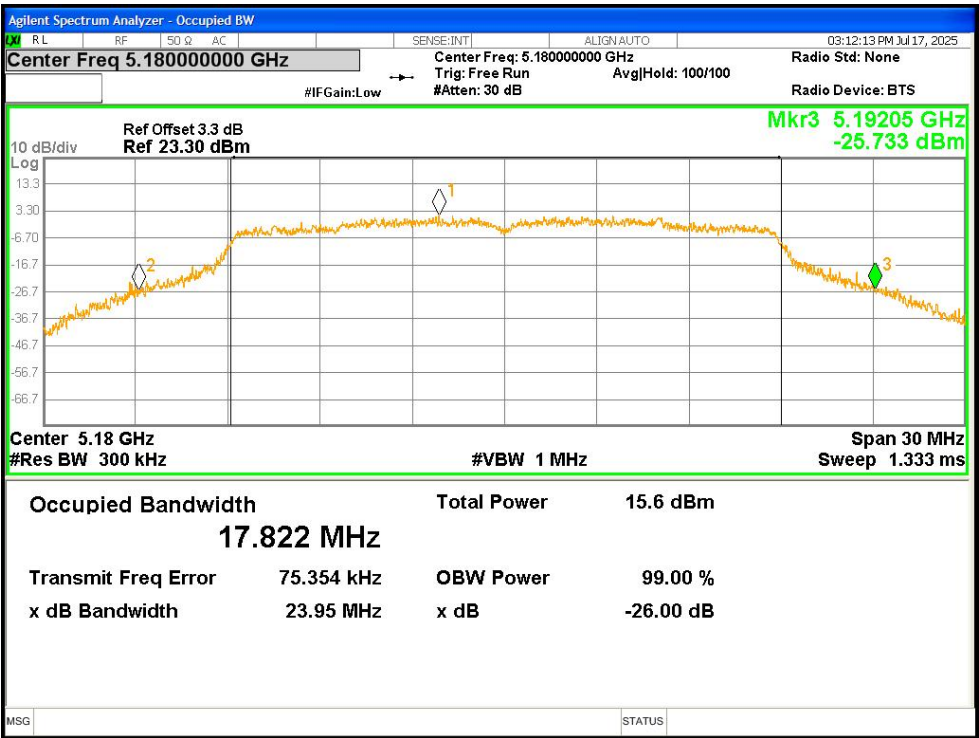
-26dB Bandwidth NVNT n20 5180MHz ANT1



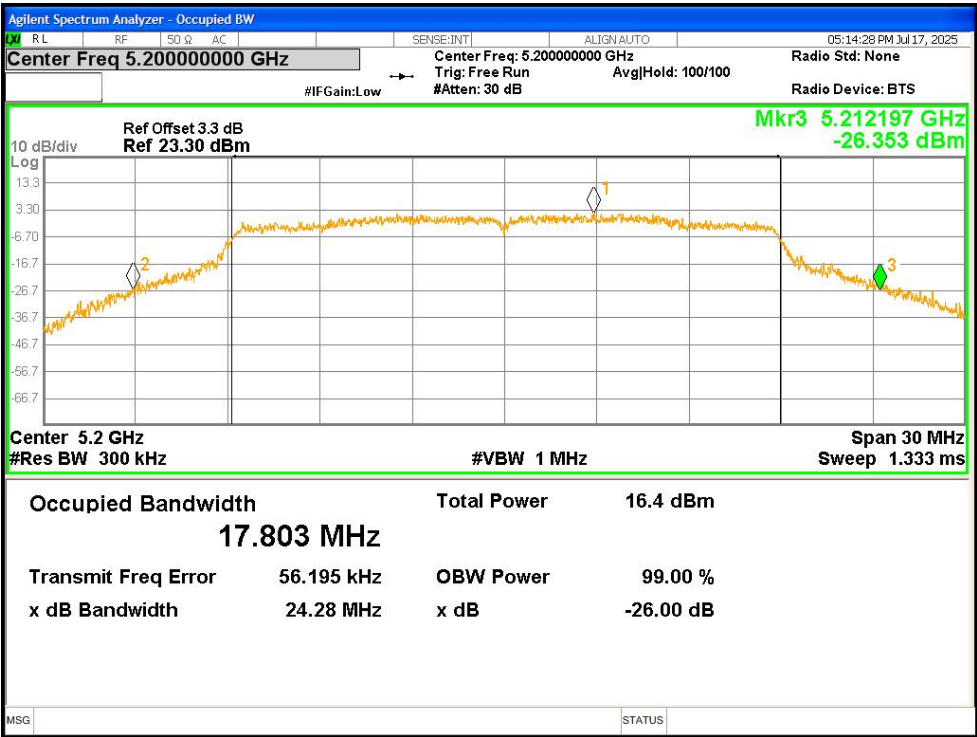
-26dB Bandwidth NVNT n20 5200MHz ANT1



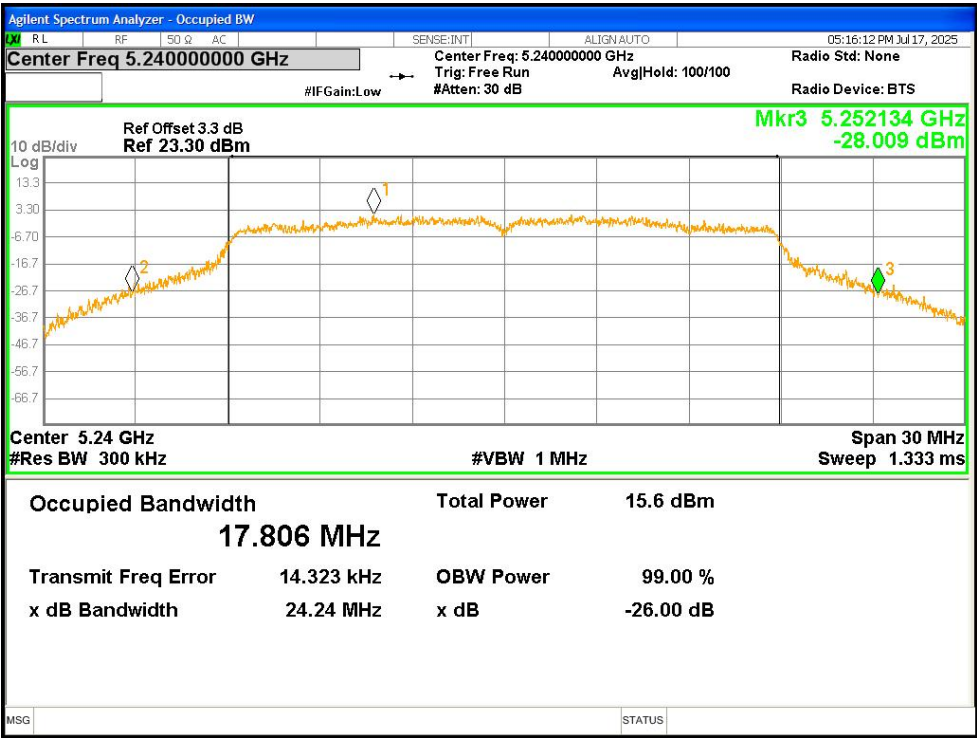
-26dB Bandwidth NVNT n20 5240MHz ANT1



-26dB Bandwidth NVNT ac20 5180MHz ANT1



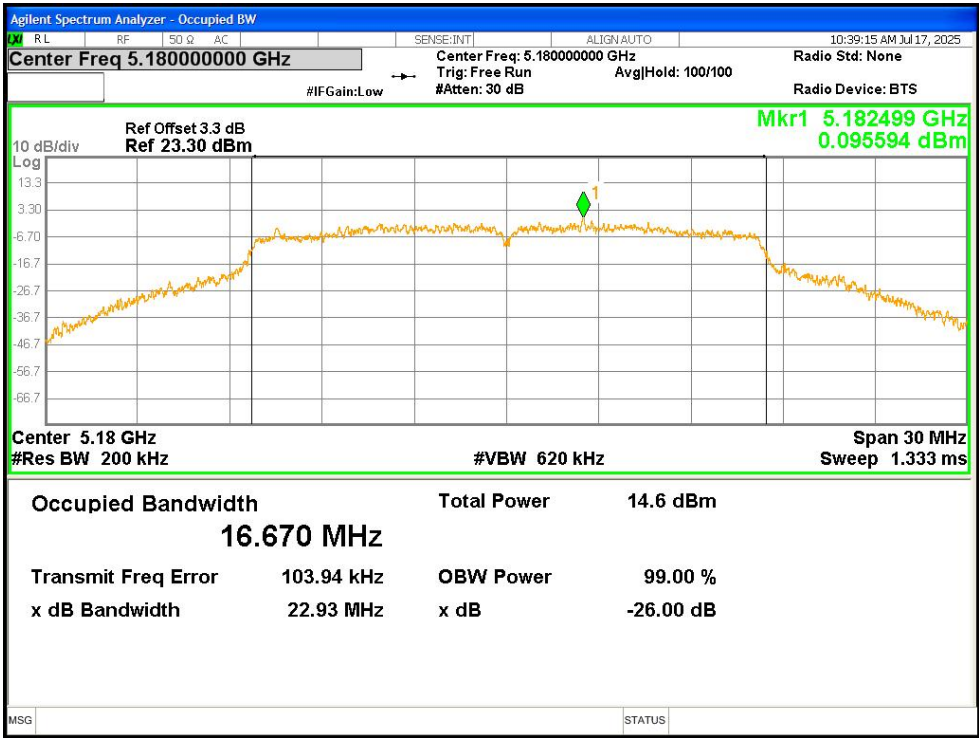
-26dB Bandwidth NVNT ac20 5200MHz ANT1



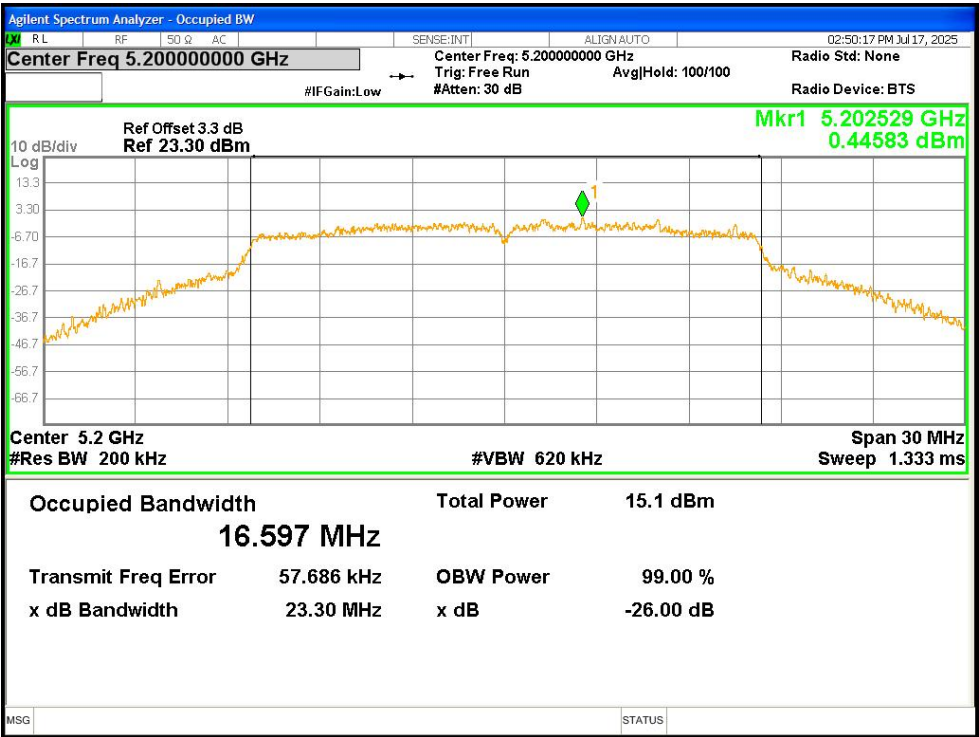
-26dB Bandwidth NVNT ac20 5240MHz ANT1

ANT 1

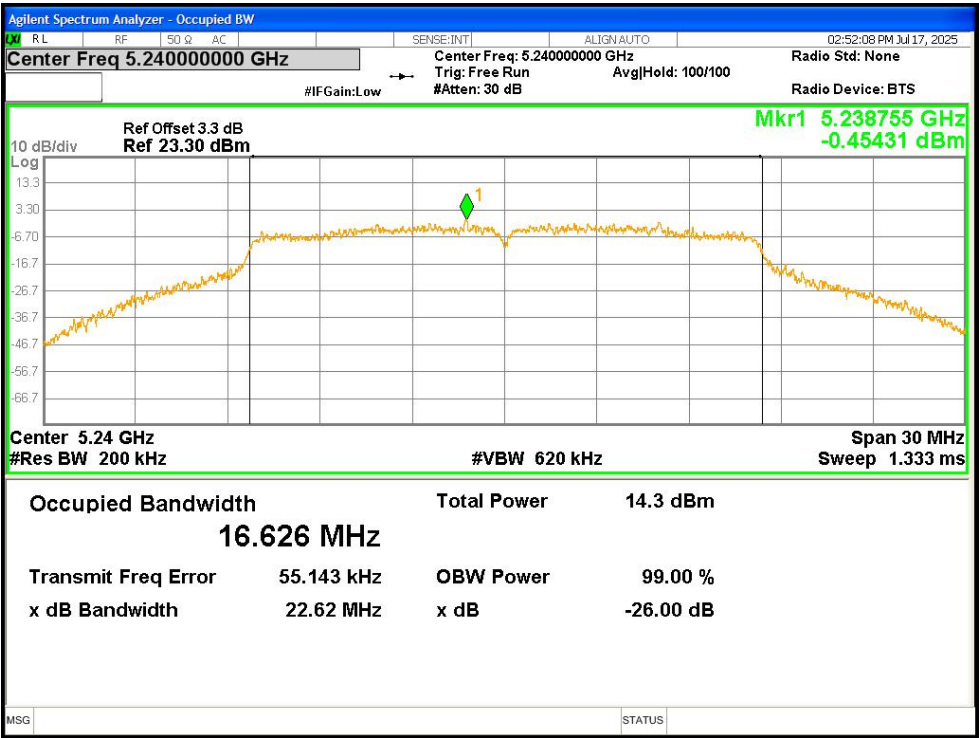
Band	Operation mode	99% Bandwidth (MHz)			Limit(KHz)
		Low	Middle	High	>500
U-NII-3 (ANT1)	802.11a	16.67	16.597	16.626	
	802.11n(HT20)	18.847	18.881	18.89	
	802.11ac(HT20)	17.725	17.749	17.724	



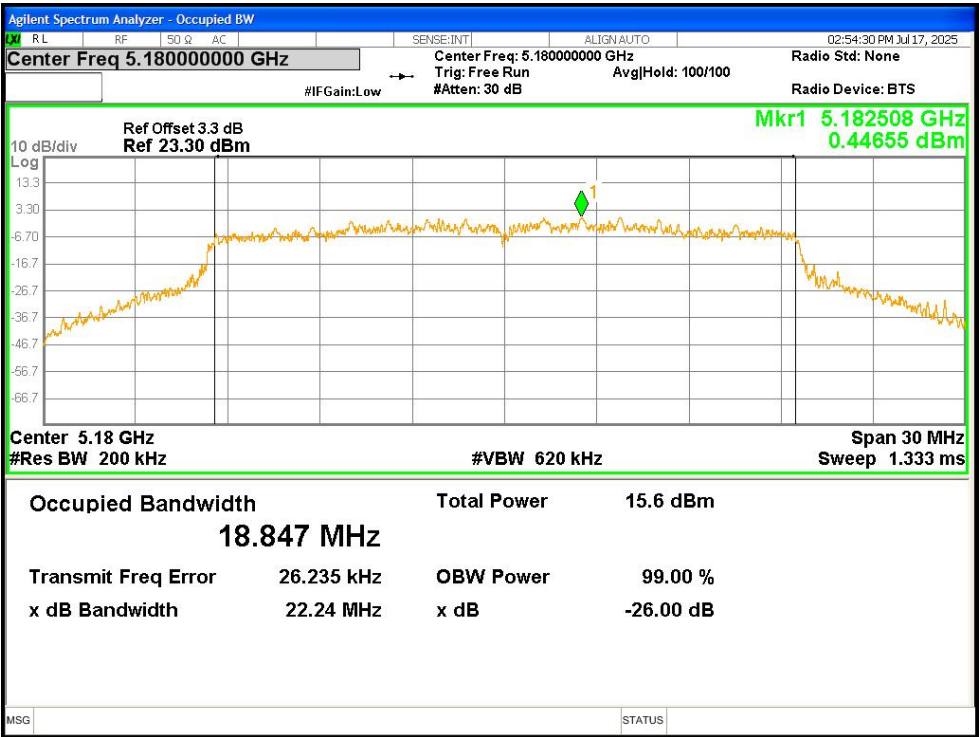
OBW NVNT a 5180MHz ANT1



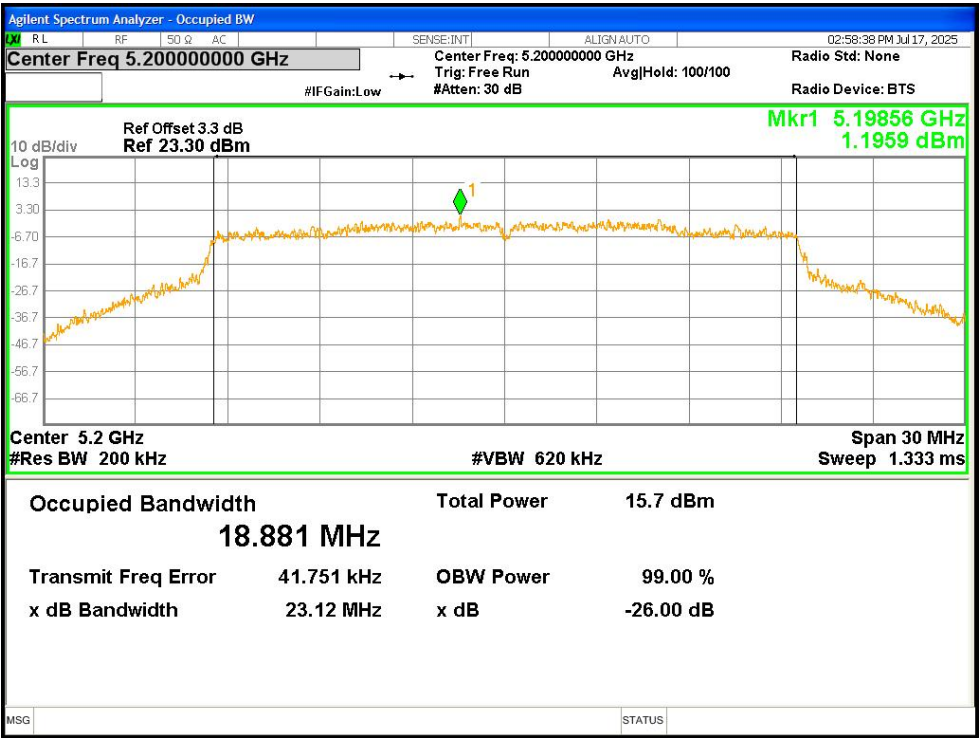
OBW NVNT a 5200MHz ANT1



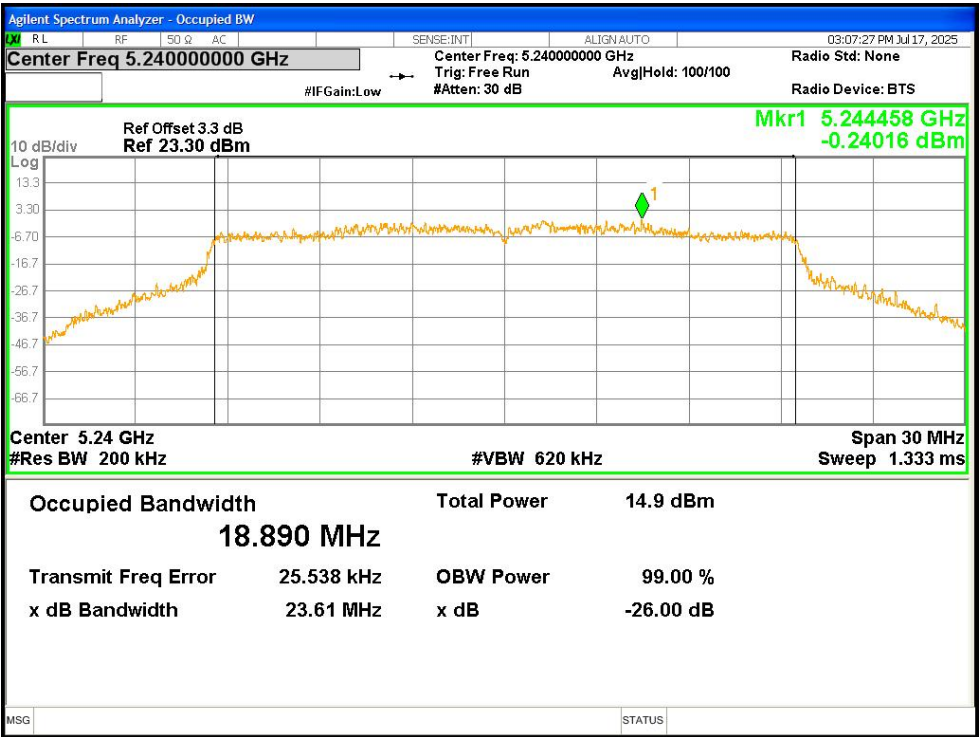
OBW NVNT a 5240MHz ANT1



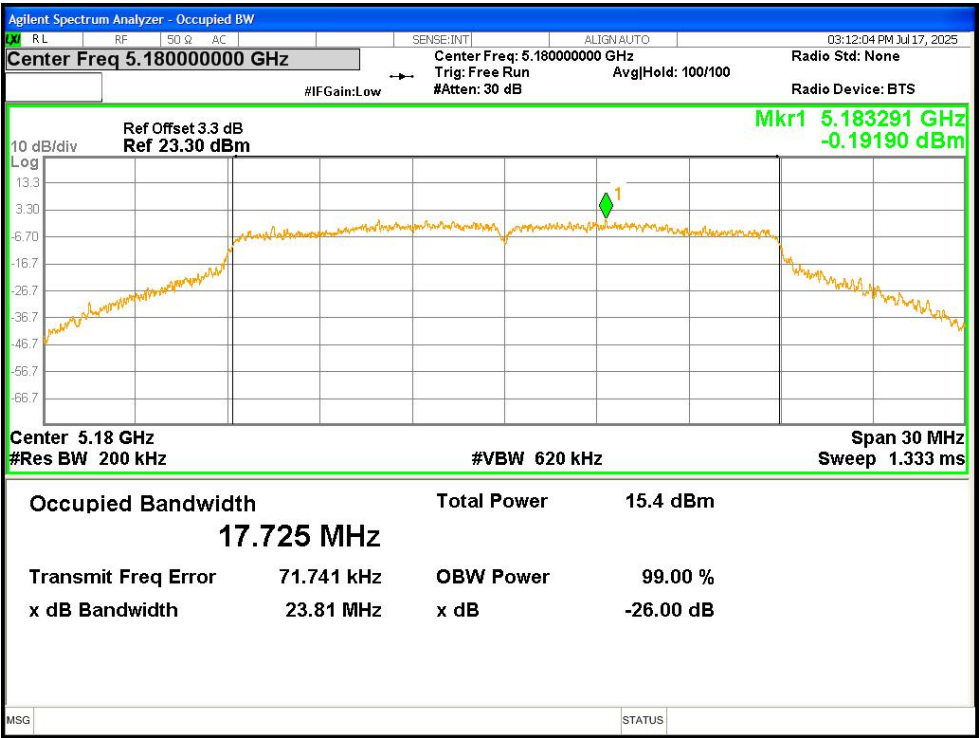
OBW NVNT n20 5180MHz ANT1



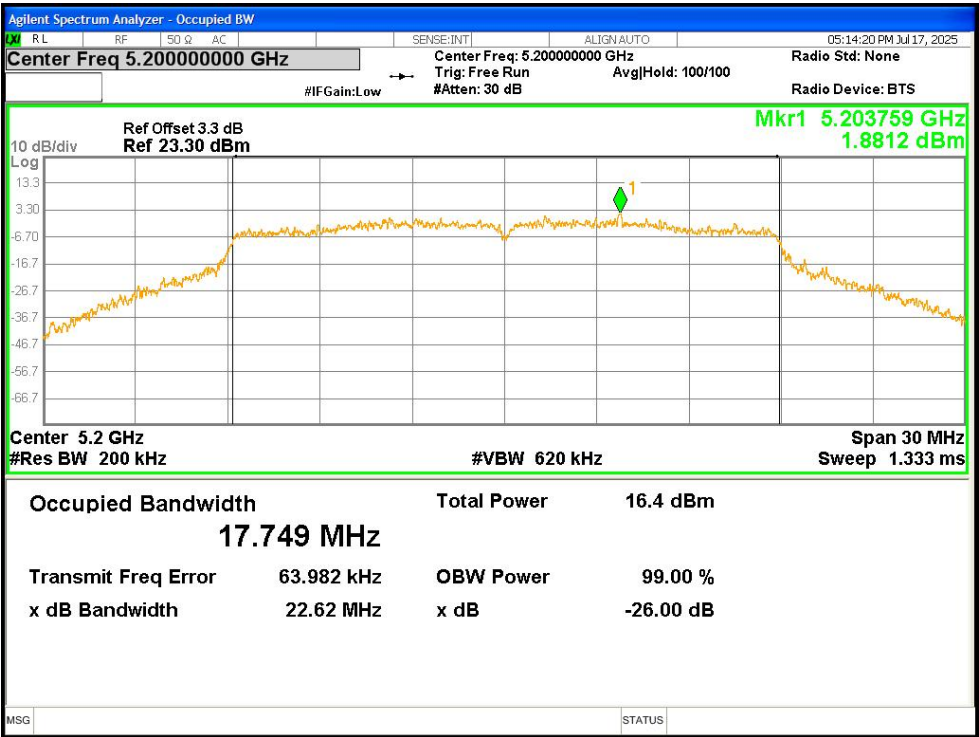
OBW NVNT n20 5200MHz ANT1



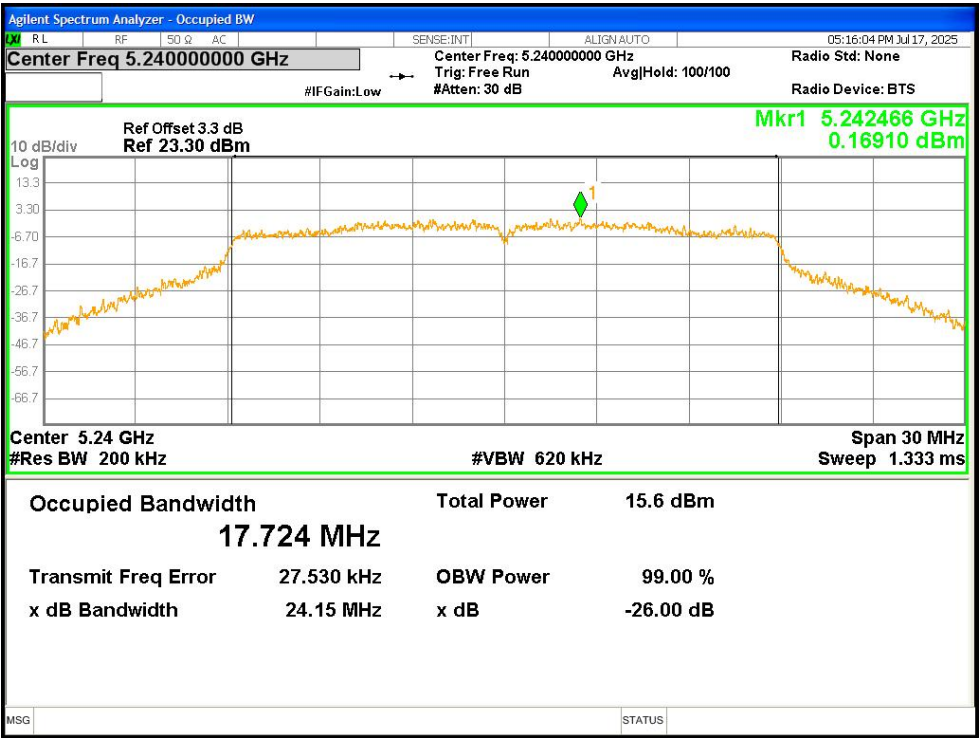
OBW NVNT n20 5240MHz ANT1



OBW NVNT ac20 5180MHz ANT1



OBW NVNT ac20 5200MHz ANT1



OBW NVNT ac20 5240MHz ANT1

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407&RSS 247 section 6.2.1.1/6.2.4.1
The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725-5850	1W

7.2 TEST PROCEDURE

The EUT was directly connected to the Power meter

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.¹ However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX		

Band	Operation mode	CH	Conducted Output Power (dBm)	duty cycle factor	Average Level (dBm)	Limit dBm/MHz
			ANT1			
U-NII-1	802.11a	Low	8.89	0.1	8.99	24
		Middle	9.33	0.1	9.43	24
		High	8.45	0	8.45	24
	802.11n(HT20)	Low	9.2	0.76	9.96	24
		Middle	9.33	0	9.33	24
		High	8.47	0	8.47	24
	802.11ac(HT20)	Low	9.81	0	9.81	24
		Middle	10.65	0	10.65	24
		High	9.9	0	9.9	24

8. Frequency Stability Measurement

8.1 LIMIT

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

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

8.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and max hold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

8.3 TEST SETUP LAYOUT



8.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

8.5 TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	TX		

802.11a20

Reference Frequency(Middle Channel): 5200MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF	Error (ppm)
50	15	21	0.00357
40	15	24	0.00436
30	15	32	0.005559
20	15	22	0.0031
10	15	12	0.00249
0	15	32	0.00584
-10	15	24	0.00475
-20	15	22	0.0034
-30	15	12	0.00216

802.11n_HT20

Reference Frequency(Middle Channel): 5200MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF	Error (ppm)
50	15	13	0.00209
40	15	21	0.00324
30	15	32	0.00579
20	15	55	0.00959
10	15	42	0.00702
0	15	32	0.00573
-10	15	24	0.00486
-20	15	22	0.0032
-30	15	12	0.00252

802.11ac_HT20

Reference Frequency(Middle Channel): 5200MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF	Error (ppm)
50	15	13	0.00267
40	15	21	0.00382
30	15	32	0.00520
20	15	55	0.00996
10	15	42	0.00786
0	15	32	0.00519
-10	15	24	0.00407
-20	15	22	0.0036
-30	15	12	0.00203

So, Frequency Stability Versus Input Voltage is:

802.11a20

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency	Error (ppm)
20	5	44	0.00775
	3.23	43	0.00792
	4.37	42	0.00770

802.11n_HT20

Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency	Error (ppm)
20	5	21	0.00348
	3.23	43	0.00759
	4.37	55	0.00967

802.11ac_HT20

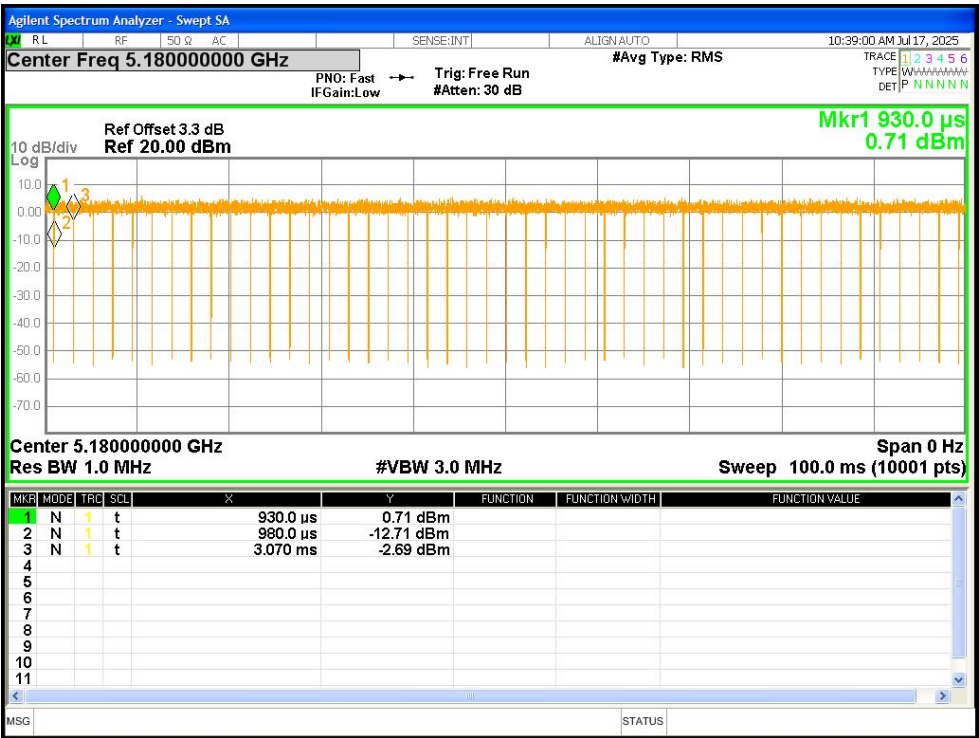
Reference Frequency(Middle Channel): 5200 MHz			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency	Error (ppm)
20	5	21	0.00305
	3.23	43	0.00717
	4.37	55	0.00906

9.DUTY CYCLE

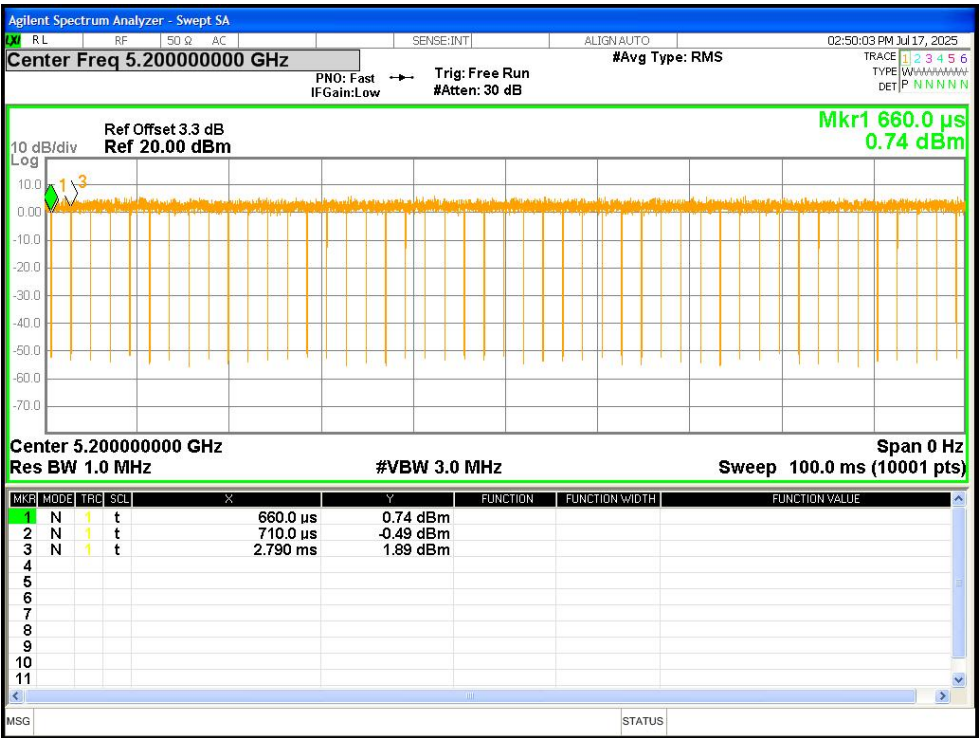
Test Requirement: 47 CFR Part 15E 15.407
KDB789033 D02 General U-NII Test Procedures New Rules v02r01,
Section (B)
Test Method: ANSI C63.10: 2020
Test Limit: N/A
Test Result: PASS
Remark: Through Pre-scan, The duty cycle set for channel low, middle and
high are same, and the duty cycle test is performed at channel low
only, The report only records the test data of antenna 1

Test Result:

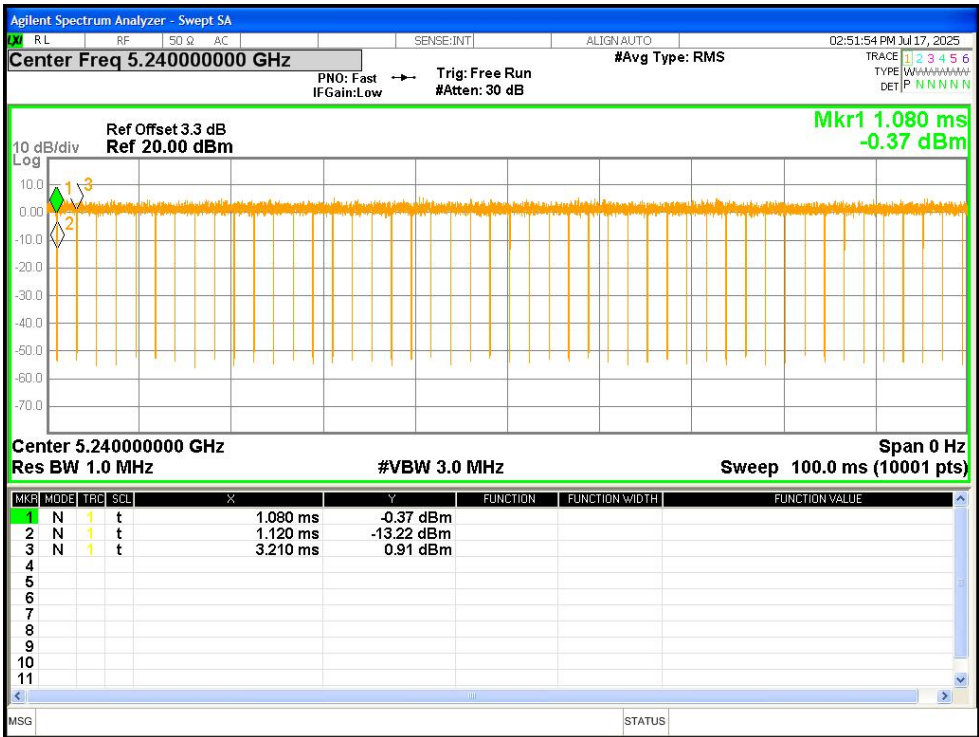
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	ANT1	97.66	0.1
NVNT	a	5200	ANT1	97.65	0.1
NVNT	a	5240	ANT1	98.12	0
NVNT	n20	5180	ANT1	83.87	0.76
NVNT	n20	5200	ANT1	98.75	0
NVNT	n20	5240	ANT1	98.75	0
NVNT	ac20	5180	ANT1	98.75	0
NVNT	ac20	5200	ANT1	98.75	0
NVNT	ac20	5240	ANT1	98.75	0



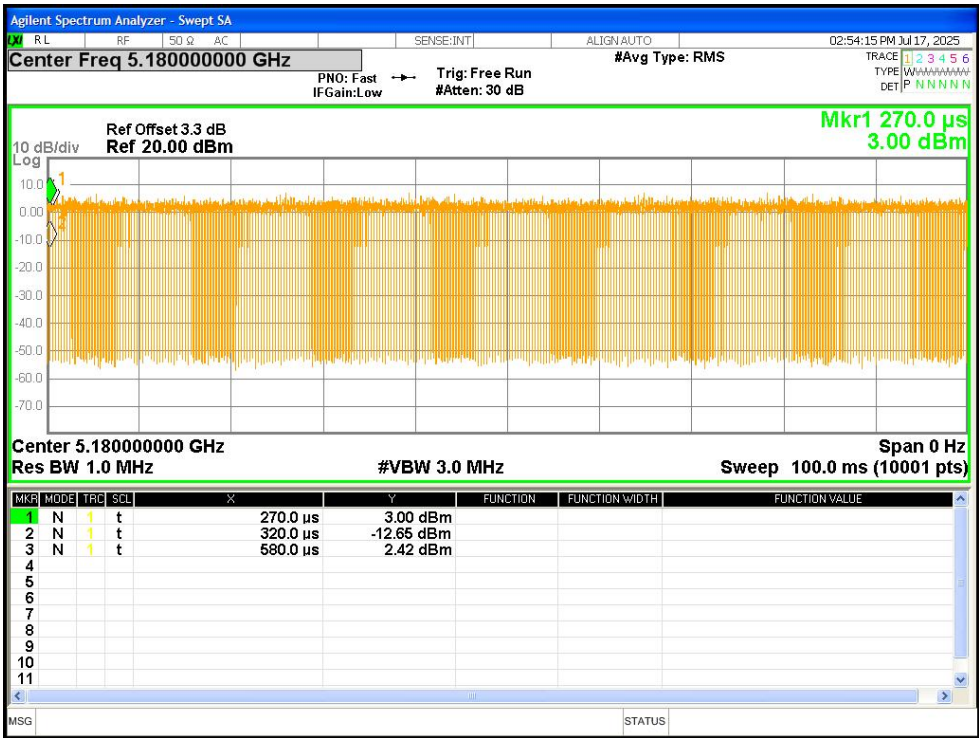
Duty Cycle NVNT a 5180MHz ANT1



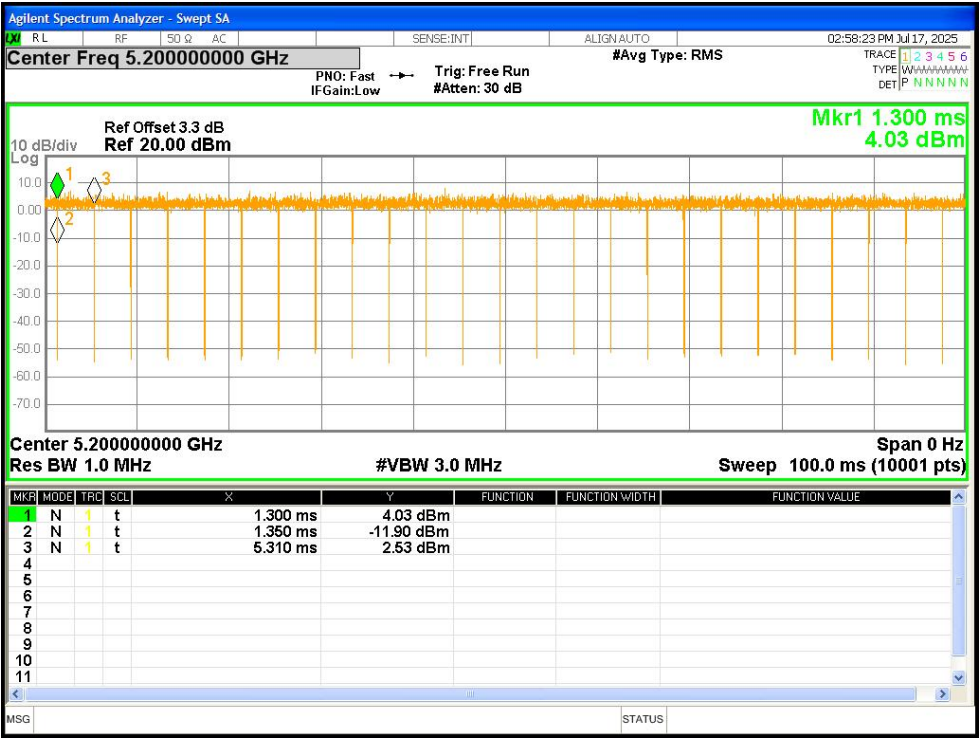
Duty Cycle NVNT a 5200MHz ANT1



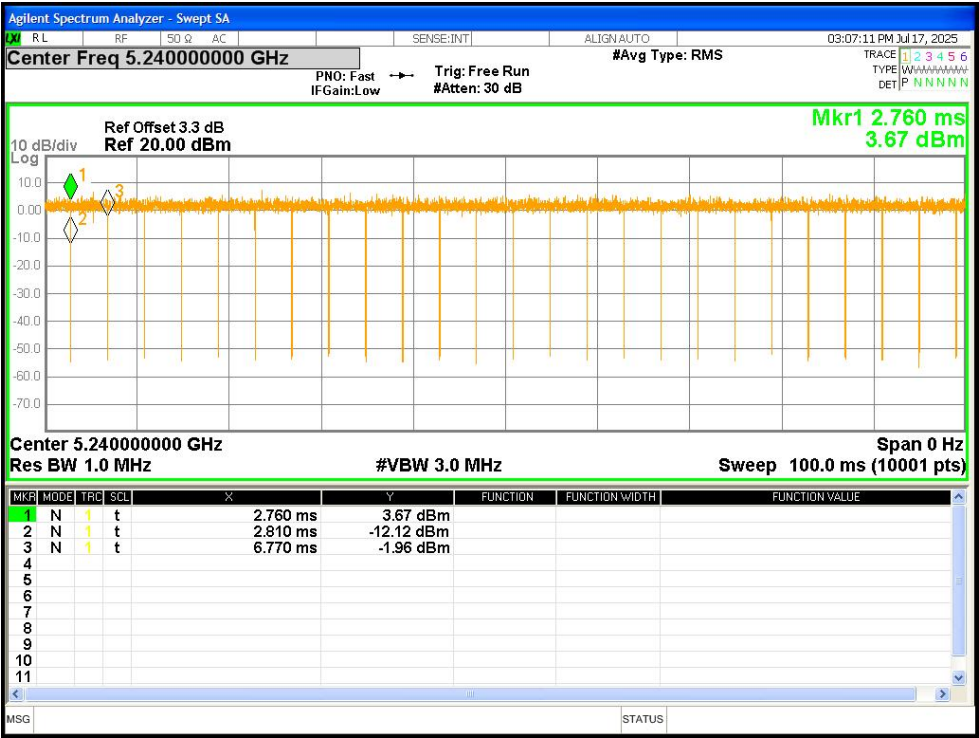
Duty Cycle NVNT a 5240MHz ANT1



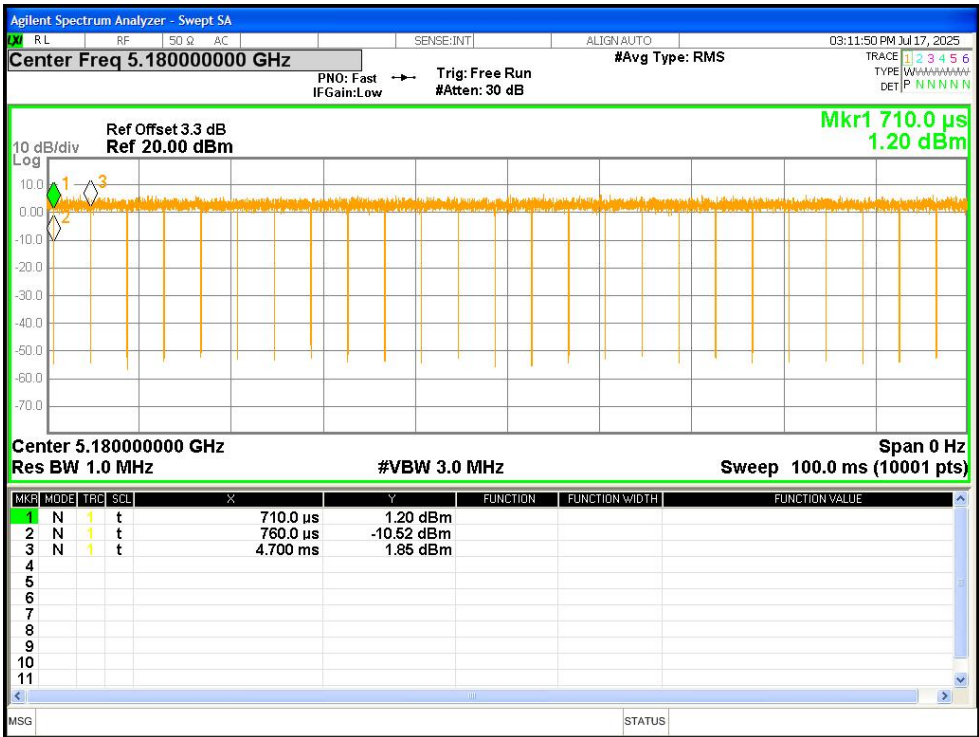
Duty Cycle NVNT n20 5180MHz ANT1



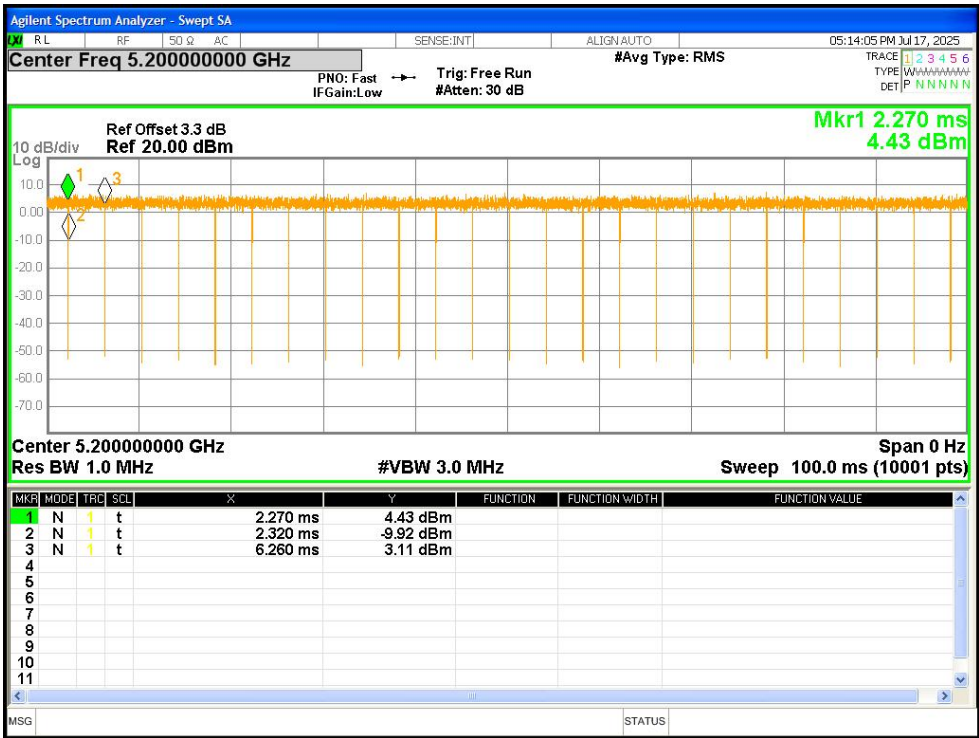
Duty Cycle NVNT n20 5200MHz ANT1



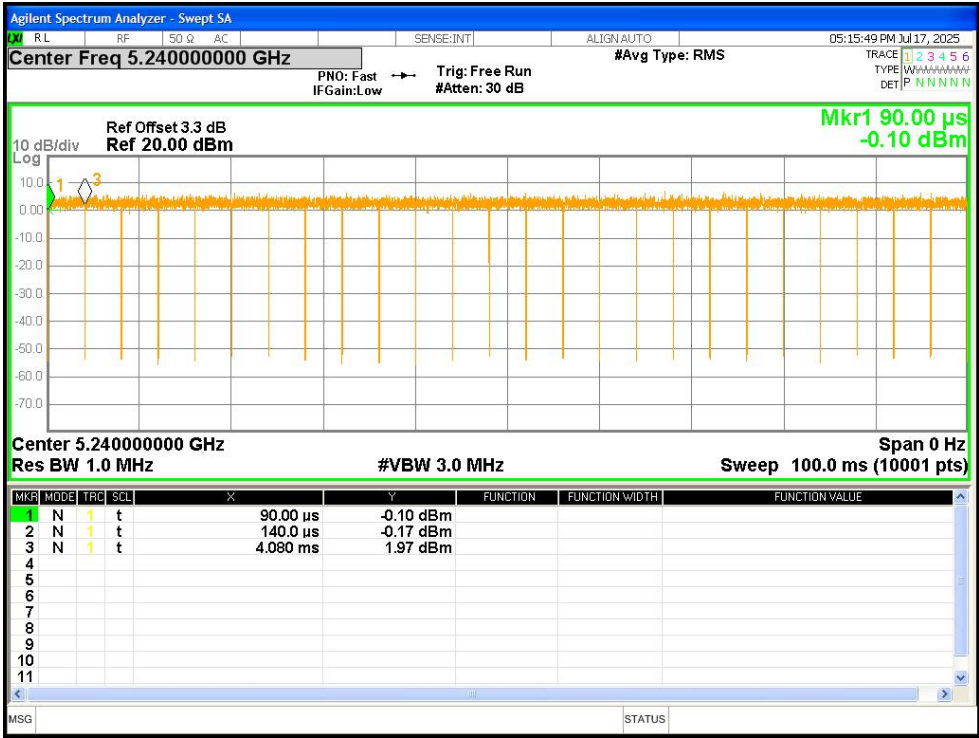
Duty Cycle NVNT n20 5240MHz ANT1



Duty Cycle NVNT ac20 5180MHz ANT1



Duty Cycle NVNT ac20 5200MHz ANT1



Duty Cycle NVNT ac20 5240MHz ANT1

10.ANTENNA REQUIREMENT

Standard requirement:	FCC Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. RSS-Gen requirement: According to the RSS-Gen Section 6.8, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This device uses of Two antennas that uses a specified coupling to the intentional radiator. Antenna connectors complied with the requirement.	
EUT Antenna:	
The WIFI 5G antennas are External antenna, the best case gain for two antennas are 2.03dBi, reference to the appendix II for details	

11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

******* END OF REPORT *******