FCC Radio Test Report

FCC ID: GSSVS20085

Report No.	:	eLAB-FCC-3-2403X002
Equipment	:	PJ-WPD-800
Model Name	:	VS20085
Brand Name	:	ViewSonic
Applicant	:	ViewSonic Corporation
Address	:	10 Pointe Dr. Suite 200. Brea, CA 92821 United States
Radio Function	:	RLAN 5 GHz (U-NII 1)
FCC Rule Part(s)	:	FCC CFR Title 47, Part 15, Subpart E (15.407)
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2024/3/14
Date of Test	:	2024/3/28~2024/4/18
Issued Date	:	2024/5/16

The above equipment has been tested and found in compliance with the requirement of the above standards by eTest certification Laboratory Inc. hereinafter referred to as “eLAB”.

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4045

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
eLAB-FCC-3-2403X002	R00	Original Report.	2024/5/16	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Result	Remark
15.207	AC Power Line Conducted Emissions	Pass	------
15.205 15.209 15.407(b)	Radiated Emissions	Pass	------
15.407(a)	Bandwidth	Pass	------
15.407(a)	Output Power	Pass	------
15.407(a)	Power Spectral Density	Pass	------
15.203	Antenna Requirement	Pass	------
15.407(c)	Automatically Discontinue Transmission	Pass	NOTE (3)

NOTE:
(1) ”N/A” denotes test is not applicable in this Test Report.
(2) The report format version is FR15EWL5_V1.0
(3) The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation and FCC designation number is 4045.The satellite facilities under the test firm used to collect the test data in this report are:
No. 91, Ln. 298, Wengong 1st Rd., Guishan Dist., Taoyuan City 333001, Taiwan

☒ C01 ☒ CB03 ☐ TR02

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The eLab measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.4

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
CB03	CISPR	0.009 kHz ~ 30 MHz	-	2.9
		30 MHz ~ 1000 MHz	H	3.2
			V	4.0
		1 GHz ~ 6 GHz	H	4.8
			V	4.9
		6 GHz ~ 18 GHz	H	4.8
			V	4.7
		18 GHz	-	4.1

C. Conducted test:

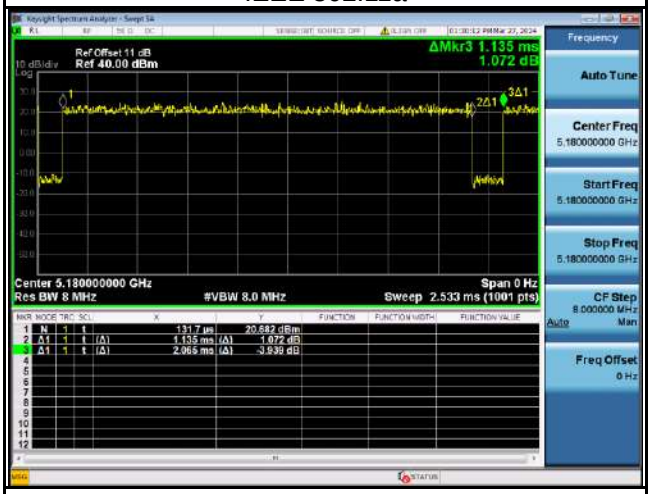
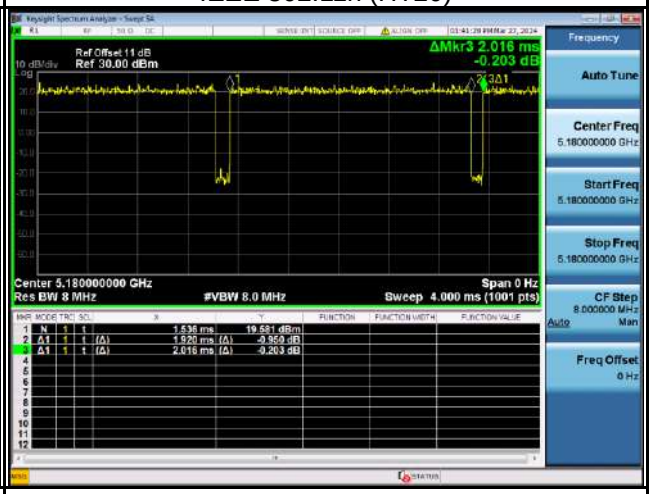
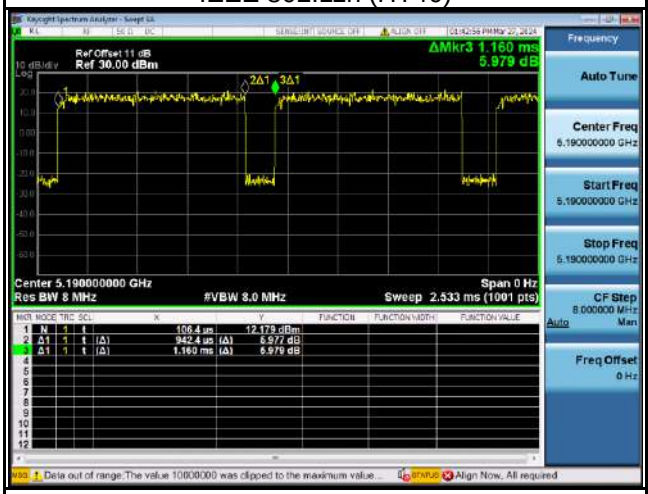
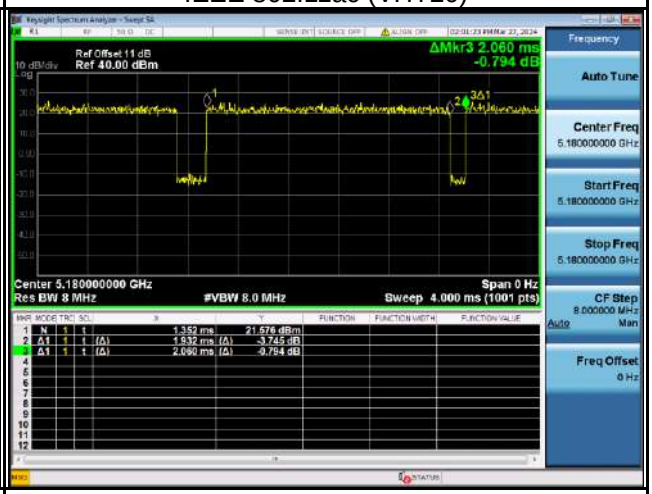
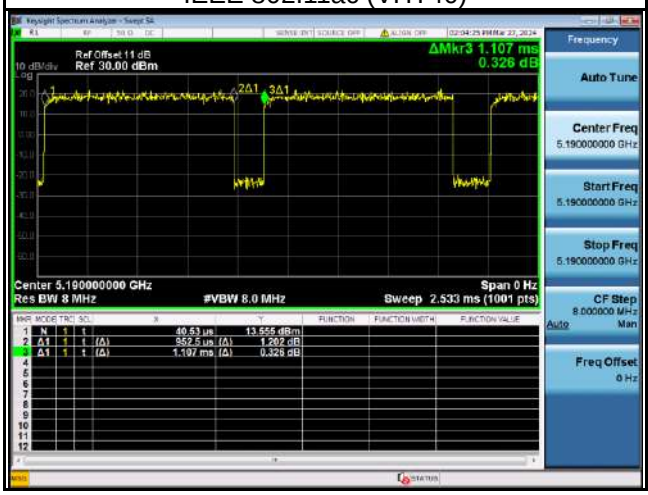
Test Item	U, (dB)
Occupied Bandwidth	0.5332
Output power	0.3669
Power Spectral Density	0.6590
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5335
Frequency Stability	0.5333

NOTE:
Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11a	1.135	1	1.135	2.065	54.96%	2.60
IEEE 802.11n (HT20)	1.920	1	1.920	2.016	95.24%	0.21
IEEE 802.11n (HT40)	0.942	1	0.942	1.160	81.21%	0.90
IEEE 802.11ac (VHT20)	1.932	1	1.932	2.060	93.79%	0.28
IEEE 802.11ac (VHT40)	0.953	1	0.953	1.107	86.09%	0.65
IEEE 802.11ac (VHT80)	0.459	1	0.459	1.193	38.47%	4.15

IEEE 802.11a	IEEE 802.11n (HT20)
	
IEEE 802.11n (HT40)	IEEE 802.11ac (VHT20)
	
IEEE 802.11ac (VHT40)	IEEE 802.11ac (VHT80)
	

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	PJ-WPD-800
Model Name	VS20085
Brand Name	ViewSonic
Operation Band	UNII-1: 5150 MHz to 5250 MHz
Operation Frequency	UNII-1: 5180 MHz to 5240 MHz
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: Up to 150 Mbps 802.11ac: Up to 433.3 Mbps
Output Power Max. for UNII-1 (SISO)	IEEE 802.11a: 17.61 dBm (0.0577 W)
Output Power Max. for UNII-1 (MIMO)	IEEE 802.11n (HT20): 16.95 dBm (0.0495 W) IEEE 802.11n (HT40): 16.97 dBm (0.0497 W) IEEE 802.11ac (VHT20): 17.46 dBm (0.0557 W) IEEE 802.11ac (VHT40): 17.29 dBm (0.0536 W) IEEE 802.11ac (VHT80): 17.37 dBm (0.0546 W)
Test Software Version	teraterm-4.107

NOTE:
(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	-	-
44	5220	-	-	-	-
48	5240	-	-	-	-

(3) Table for Filed Antenna:

Antenna	Brand Name	Model Name	Type	Frequency (MHz)	Gain (dBi)
1	ViewSonic	HP47D	PCB	5150-5250	4.00
2					3.82

Note:
(a) The EUT incorporates a CDD function. Physically, the EUT provides two completed transmitters and receivers (2T2R)
(b) Directional Gain=6.92 dBi. (The value is declared by manufacturer.) > 6dBi.
(c) For Power Spectral Density
The reduced power spectral density limits (dBm/3kHz) =16 - (6.92-6) = 16.08 (dBm/3kHz)
(d) For Output Power
For N_{ANT}= 2<5, Direction Gain= G_{ANT} + 0 = 4 + 0 = 4
The Direction Gain is less than 6dBi, so output power limits will not be reduced.

(4) The above Antenna information is derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5)

TX Mode / Operating Mode	2TX
IEEE 802.11a	V (Ant. 1)
IEEE 802.11n (HT20)	V (Ant. 1+Ant. 2)
IEEE 802.11n (HT40)	V (Ant. 1+Ant. 2)
IEEE 802.11 (AC20)	V (Ant. 1+Ant. 2)
IEEE 802.11 (AC40)	V (Ant. 1+Ant. 2)
IEEE 802.11 (AC80)	V (Ant. 1+Ant. 2)

2.2 TEST MODES

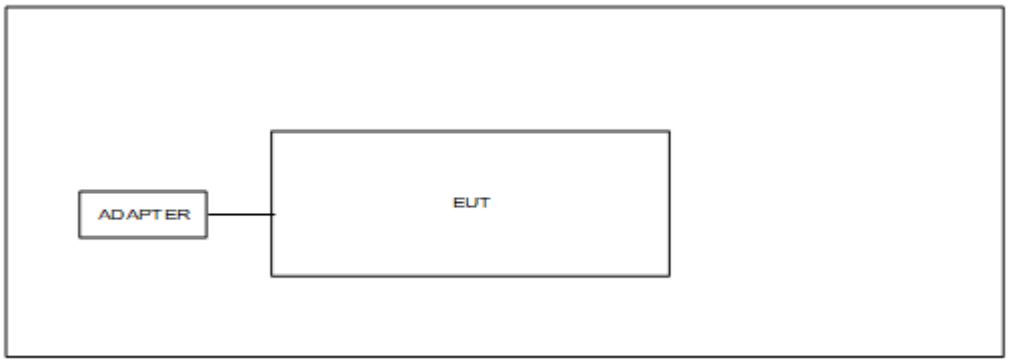
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11ac (VHT80)	58	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11a	36/48	Bandedge
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)	38/46	
	TX Mode_IEEE 802.11ac (VHT80)	42	
	TX Mode_IEEE 802.11a	36/40/48	Harmonic
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)	38/46	
	TX Mode_IEEE 802.11ac (VHT80)	42	
Bandwidth & Power Spectral Density	TX Mode_IEEE 802.11a	36/40/48	-
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11n (HT40)	38/46	
	TX Mode_IEEE 802.11ac (VHT80)	42	
Output Power	TX Mode_IEEE 802.11a	36/40/48	-
	TX Mode_IEEE 802.11n (HT20)		
	TX Mode_IEEE 802.11ac (VHT20)		
	TX Mode_IEEE 802.11n (HT40)	38/46	
	TX Mode_IEEE 802.11ac (VHT40)		
	TX Mode_IEEE 802.11ac (VHT80)	42	

NOTE:
(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.

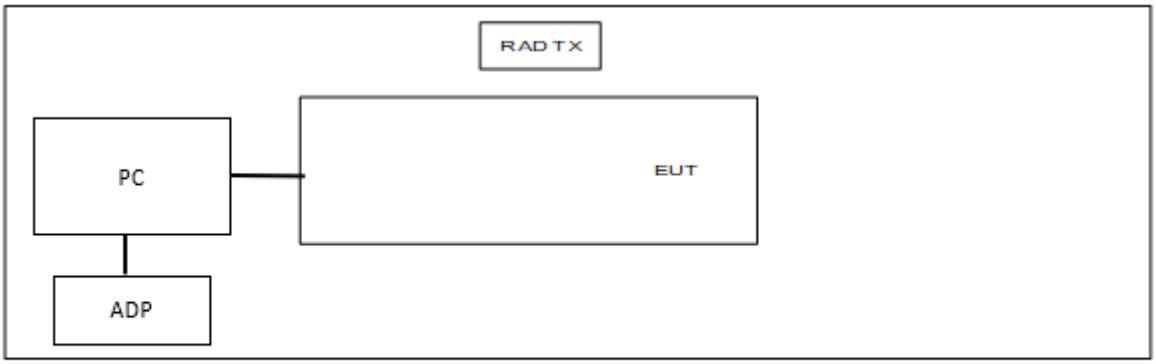
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

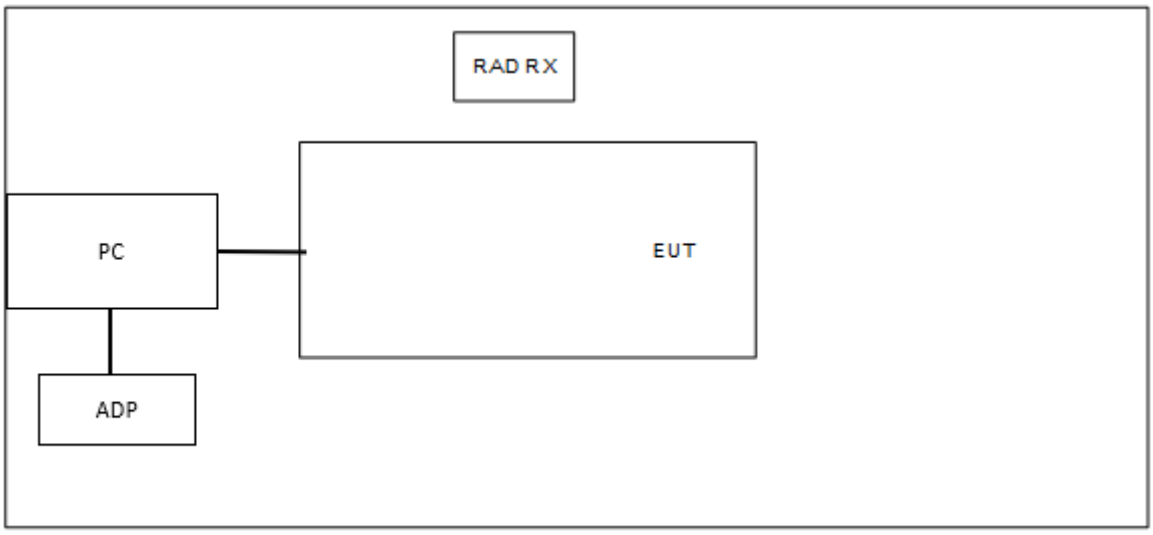
Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions





2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Remarks
A	NB	Dynabook	TECRA A40-J	Furnished by test lab.
B	ADP	Dynabook	PAS352E-1AC3	Furnished by test lab.
C	Fixture	ViewSonic	5800-2CUART	Supplied by test requester.
D	Remote Controller	OHSUNG	G10	Supplied by test requester

Item	Cable Type	Ferrite Core	Length	Shielded	Remarks
1	Micro USB	N/A	1.6m	YES	Supplied by test requester.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:
(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value – Limit Value
Calculation example:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

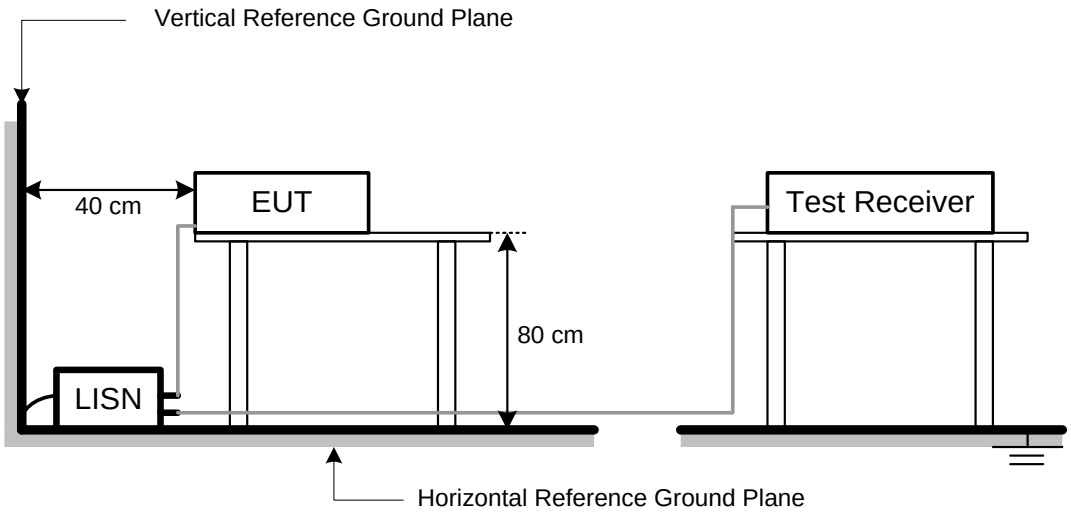
Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

NOTE:
(1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
(2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 TEST SETUP



3.4 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

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

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 (NOTE 2)	68.3
	10 (NOTE 2)	105.3
	15.6 (NOTE 2)	110.9
	27 (NOTE 2)	122.3

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

(2) According to FCC 16-24,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.

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)
Margin Level = Measurement Value - Limit Value
Calculation example:

Reading Level (dBμV)		Correct Factor (dB/m)		Measurement Value (dBμV/m)
36.23	+	-11.97	=	24.26

Measurement Value (dBμV/m)		Limit Value (dBμV/m)		Margin Level (dB)
24.26	-	40	=	-15.74

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

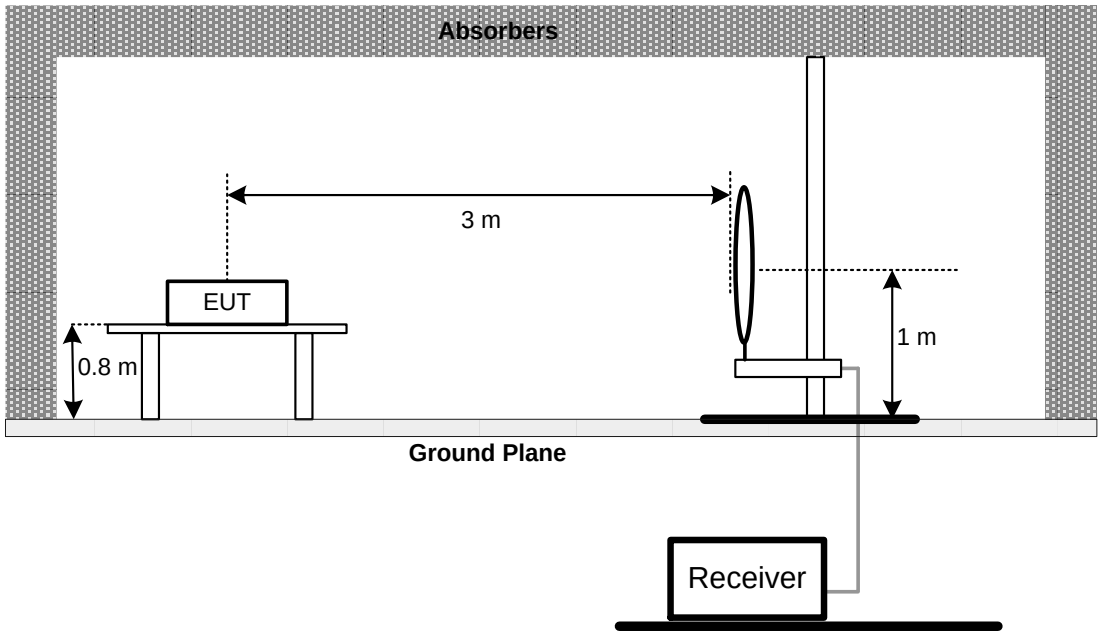
Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2 TEST PROCEDURE

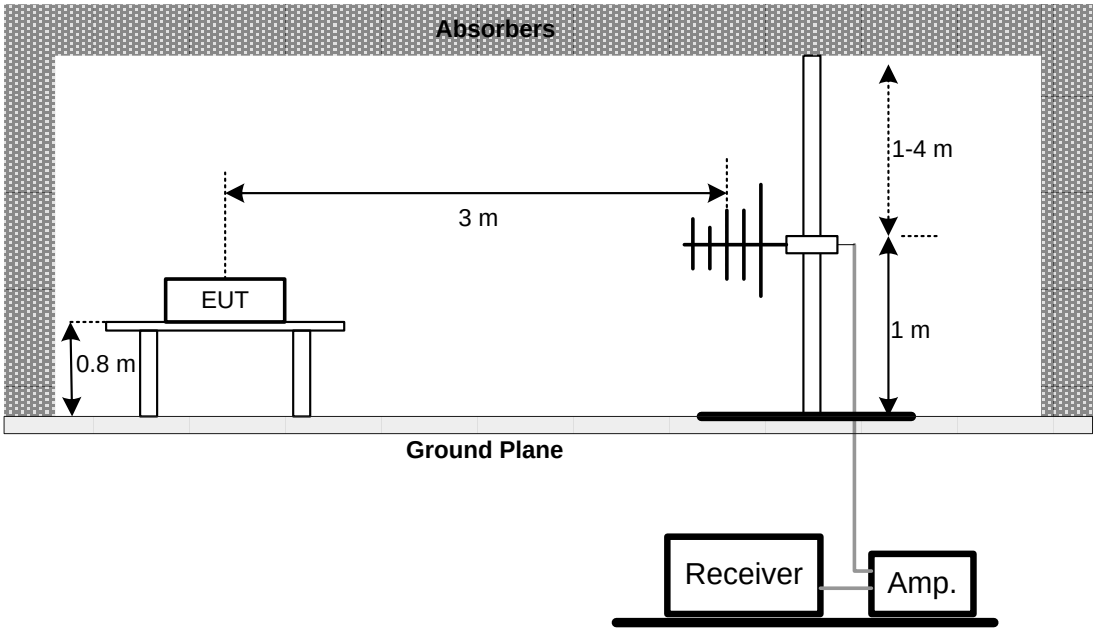
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 TEST SETUP

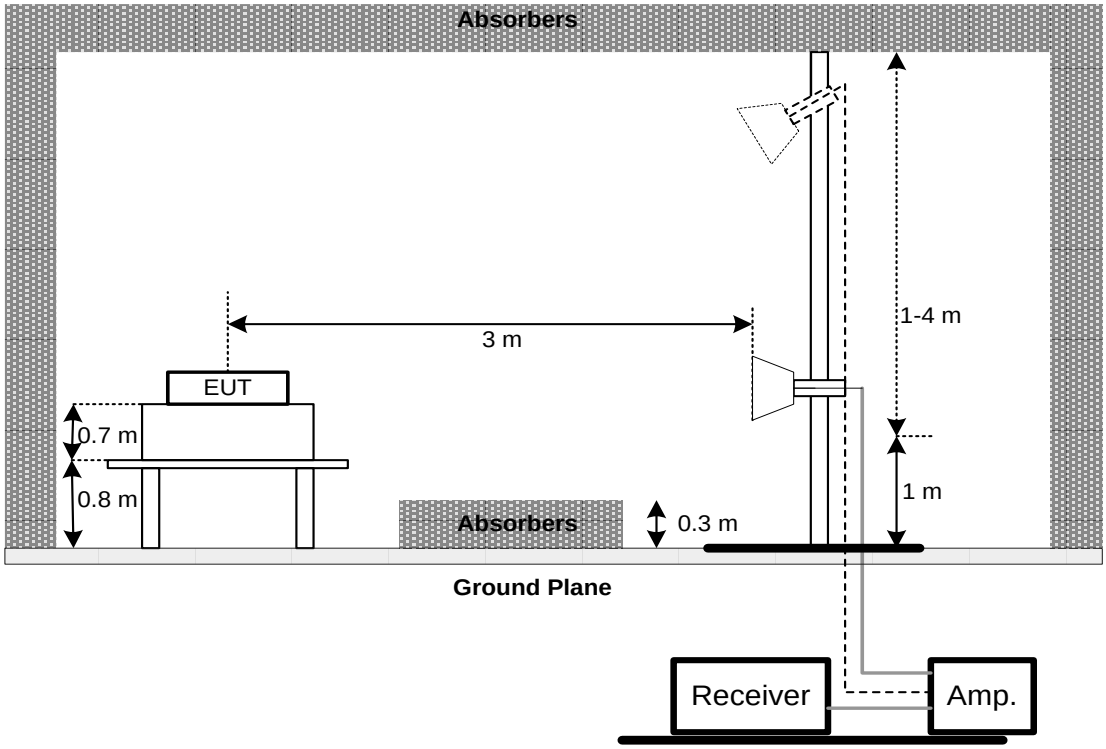
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz


Absorbers
3 m
1-4 m
EUT
0.7 m
0.8 m
Absorbers
0.3 m
1 m
Ground Plane
Receiver
Amp.

4.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.5 TEST RESULT – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.6 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

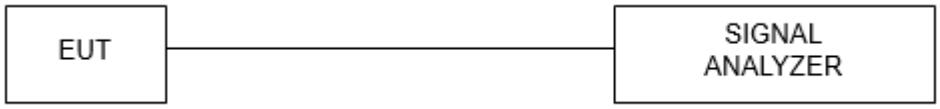
FCC Part15, Subpart E (15.407)		
Section	Test Item	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	5150-5250
		5250-5350
		5470-5725
	Minimum 500 kHz 6 dB Bandwidth	5725-5850

5.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 TEST SETUP



5.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.5 TEST RESULT

Please refer to the APPENDIX D.

6 OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	Fixed:1 Watt (30 dBm) Mobile and portable: 250 mW (24 dBm)	5150-5250
		250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz	5250-5350
			5470-5725
		1 Watt (30dBm)	5725-5850
Note: 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).			

6.2 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
b. The maximum peak conducted output power was performed in accordance with method of clause E. 3. a) FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
a)Method PM (Measurement using an RF average power meter):
(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied
The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

6.3 TEST SETUP

6.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.5 TEST RESULT

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

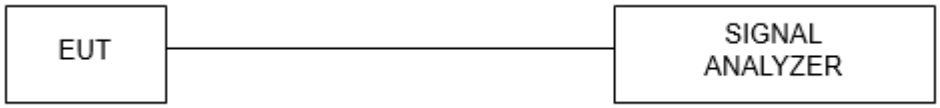
FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Other than Mobile and portable: 17 dBm/MHz Mobile and portable: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
			5470-5725
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

7.3 TEST SETUP



7.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULT

Please refer to the APPENDIX F.

8 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101051	2023/7/21	2024/7/20
2	Test Cable	EMCI	EMCRG142S-SM-SM-5000	230609	2023/7/19	2024/7/18
3	EMI Test Receiver	R&S	ESR3	103133	2023/6/29	2024/6/28
4	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	01577	2023/7/6	2024/7/5
2	Attenuator	EMCI	EMCI-N-6-05	AT-N0575	2023/7/6	2024/7/5
3	Pre-Amplifier	EMCI	EMC001330	980908	2023/7/12	2024/7/11
4	Test Cable	EMCI	EMC104-SM-SM-6000	230539	2023/7/14	2024/7/13
5	Test Cable	EMCI	EMC104-SM-SM-2500	230542	2023/7/14	2024/7/13
6	Test Cable	EMCI	EMC104-SM-SN-1000	230543	2023/7/14	2024/7/13
7	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10
8	Loop Ant.	EMCI	LPA600	296	2023/10/31	2024/10/30
9	Pre-Amplifier	EMCI	EMC001340	980969	2023/7/18	2024/7/17
10	Test Cable	EMCI	EMC104-SM-SM-6000	230539	2023/7/14	2024/7/13
11	Test Cable	EMCI	EMC104-SM-SM-2500	230542	2023/7/14	2024/7/13
12	Test Cable	EMCI	EMC104-SM-SN-1000	230543	2023/7/14	2024/7/13
13	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10
14	Horn Antenna	RFSPIN	DRH18-E	KV2D01A18ES	2023/6/30	2024/6/29
15	Pre-Amplifier	EMCI	EMC118A45SE	980960	2023/7/18	2024/7/17
16	Test Cable	EMCI	EMC104-SM-SM-6000	230539	2023/7/14	2024/7/13
17	Test Cable	EMCI	EMC104-SM-SM-2500	230542	2023/7/14	2024/7/13
18	Test Cable	EMCI	EMC104-SM-SN-1000	230543	2023/7/14	2024/7/13
19	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10
20	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2023/8/11	2024/8/10

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

9 EUT TEST PHOTO

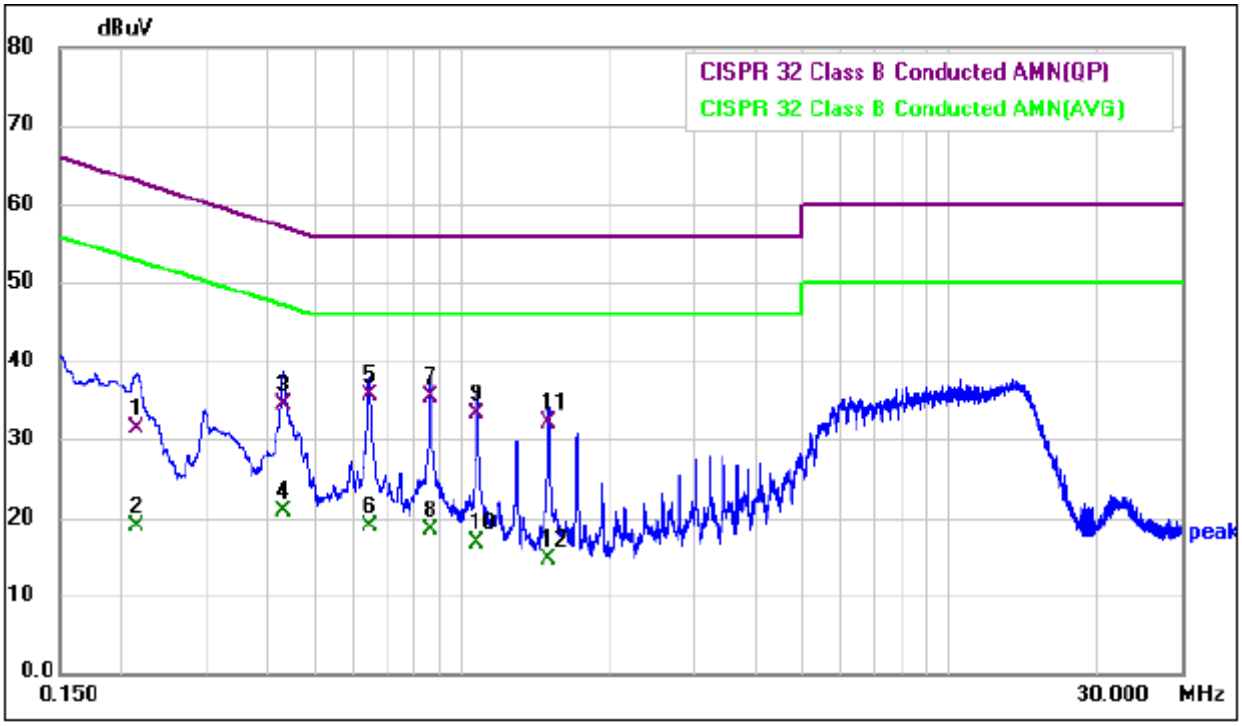
Please refer to TP-2403X002-1

10 EUT PHOTOS

Please refer to EP-2403X002-1/ EP-2403X002-2

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

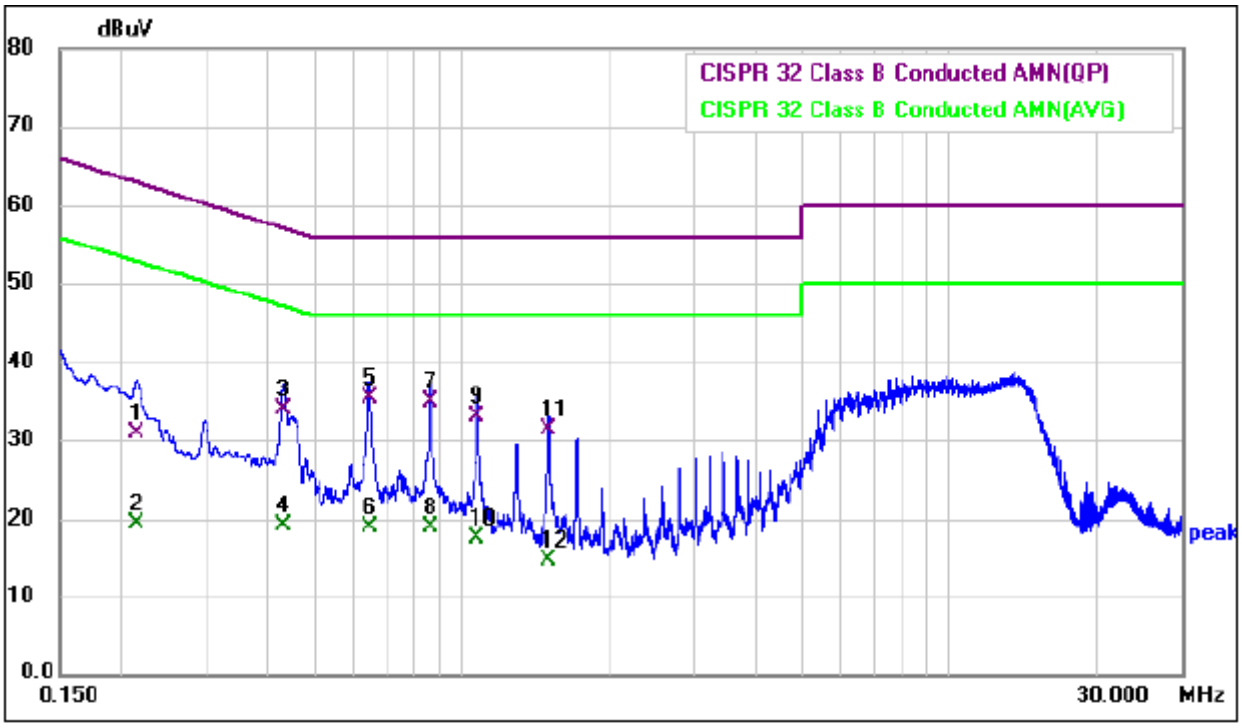
Test Mode	Normal	Tested Date	2024/4/18
Test Frequency	-	Phase	Line



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.215250	21.70	9.65	31.35	63.00	-31.65	QP	
2		0.215250	9.40	9.65	19.05	53.00	-33.95	AVG	
3		0.431250	24.90	9.64	34.54	57.23	-22.69	QP	
4		0.431250	11.20	9.64	20.84	47.23	-26.39	AVG	
5	*	0.647250	26.10	9.65	35.75	56.00	-20.25	QP	
6		0.647250	9.30	9.65	18.95	46.00	-27.05	AVG	
7		0.861000	25.70	9.66	35.36	56.00	-20.64	QP	
8		0.861000	8.80	9.66	18.46	46.00	-27.54	AVG	
9		1.077000	23.70	9.67	33.37	56.00	-22.63	QP	
10		1.077000	7.20	9.67	16.87	46.00	-29.13	AVG	
11		1.509000	22.40	9.69	32.09	56.00	-23.91	QP	
12		1.509000	4.90	9.69	14.59	46.00	-31.41	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

Test Mode	Normal	Tested Date	2024/4/18
Test Frequency	-	Phase	Neutral

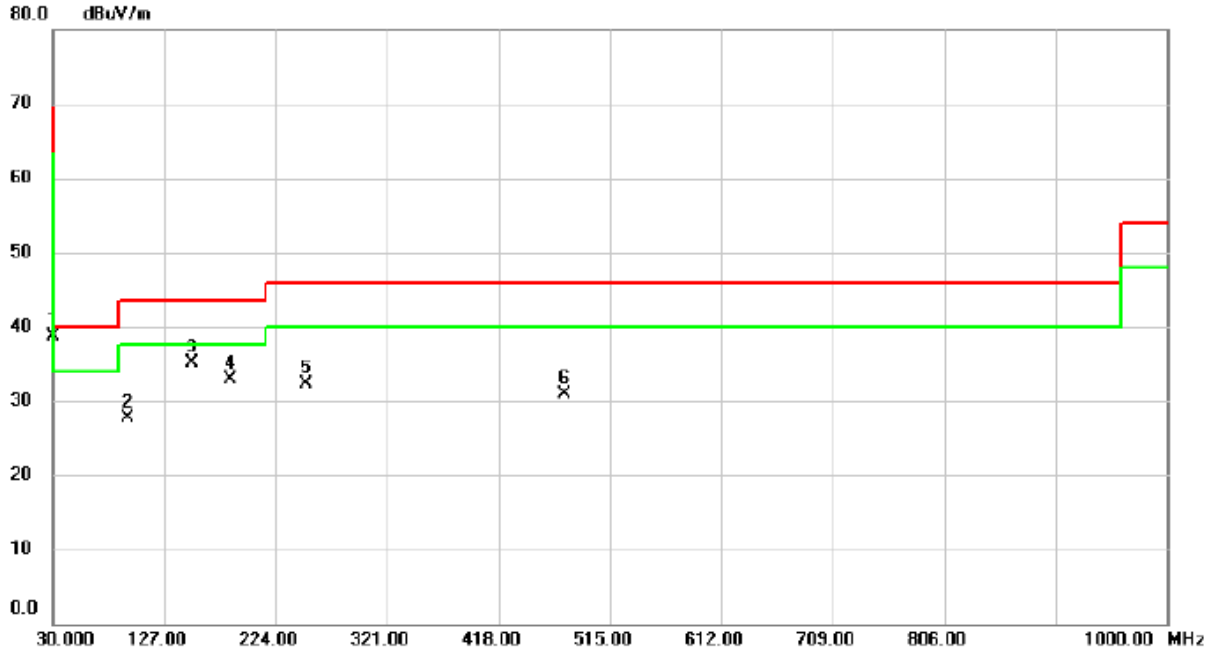


No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.215250	21.20	9.64	30.84	63.00	-32.16	QP	
2		0.215250	9.70	9.64	19.34	53.00	-33.66	AVG	
3		0.431250	24.30	9.64	33.94	57.23	-23.29	QP	
4		0.431250	9.60	9.64	19.24	47.23	-27.99	AVG	
5	*	0.647250	25.70	9.65	35.35	56.00	-20.65	QP	
6		0.647250	9.40	9.65	19.05	46.00	-26.95	AVG	
7		0.861000	25.30	9.65	34.95	56.00	-21.05	QP	
8		0.861000	9.40	9.65	19.05	46.00	-26.95	AVG	
9		1.077000	23.40	9.66	33.06	56.00	-22.94	QP	
10		1.077000	7.80	9.66	17.46	46.00	-28.54	AVG	
11		1.506750	21.70	9.68	31.38	56.00	-24.62	QP	
12		1.506750	5.00	9.68	14.68	46.00	-31.32	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

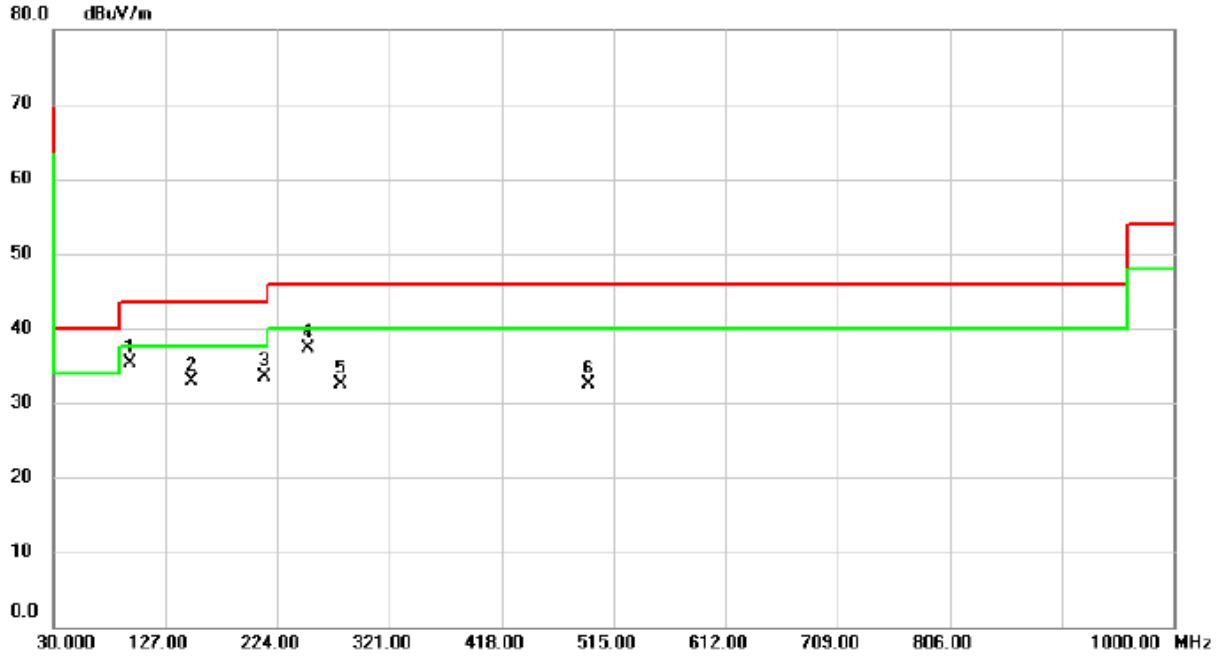
Test Mode	IEEE 802.11	Test Date	2024/4/12
Test Frequency	-	Polarization	Vertical
Temp	23°C	Hum.	64%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.0000	52.85	-14.06	38.79	40.00	-1.21	peak	
2		94.9900	45.13	-17.40	27.73	43.50	-15.77	peak	
3		151.2500	47.08	-12.00	35.08	43.50	-8.42	peak	
4		184.2300	47.04	-14.12	32.92	43.50	-10.58	peak	
5		250.1900	45.66	-13.31	32.35	46.00	-13.65	peak	
6		475.2300	38.21	-7.22	30.99	46.00	-15.01	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

Test Mode	IEEE 802.11	Test Date	2024/4/12
Test Frequency	-	Polarization	Horizontal
Temp	23°C	Hum.	64%

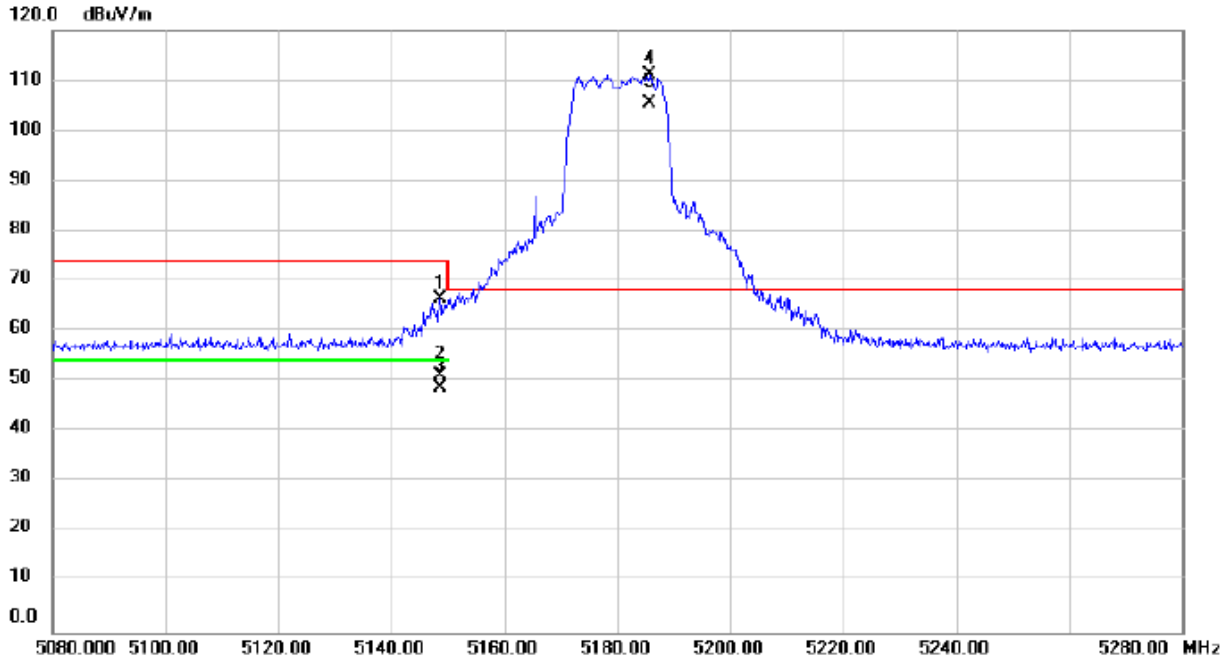


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	96.9300	52.54	-17.16	35.38	43.50	-8.12	peak	
2		149.3100	44.93	-12.07	32.86	43.50	-10.64	peak	
3		212.3600	49.10	-15.53	33.57	43.50	-9.93	peak	
4		250.1900	50.53	-13.31	37.22	46.00	-8.78	peak	
5		279.2900	44.64	-12.09	32.55	46.00	-13.45	peak	
6		493.6600	39.38	-6.95	32.43	46.00	-13.57	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

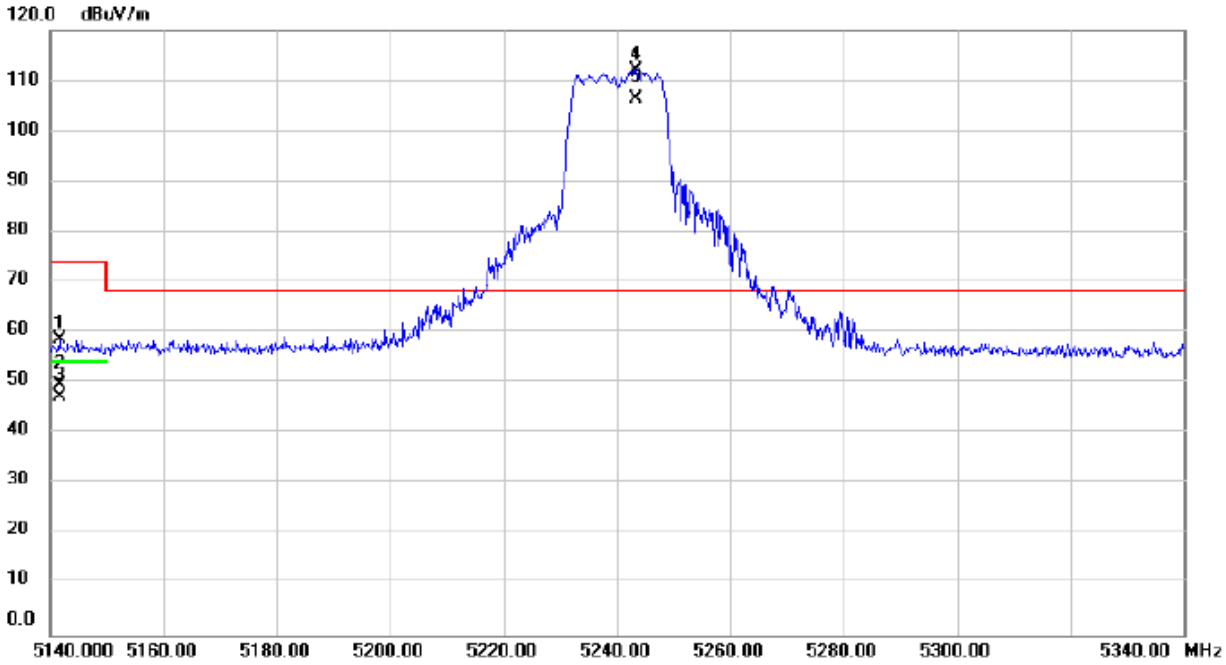
Test Mode	IEEE 802.11a	Test Date	2024/3/28
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.600	56.19	10.24	66.43	74.00	-7.57	peak	
2		5148.600	41.06	10.24	51.30	54.00	-2.70	AVG	DCF 2.60db
3		5148.600	38.46	10.24	48.70	54.00	-5.30	AVG	
4	*	5185.600	100.8	10.26	111.15	68.20	42.95	peak	
5	X	5185.600	95.07	10.26	105.33	68.20	37.13	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

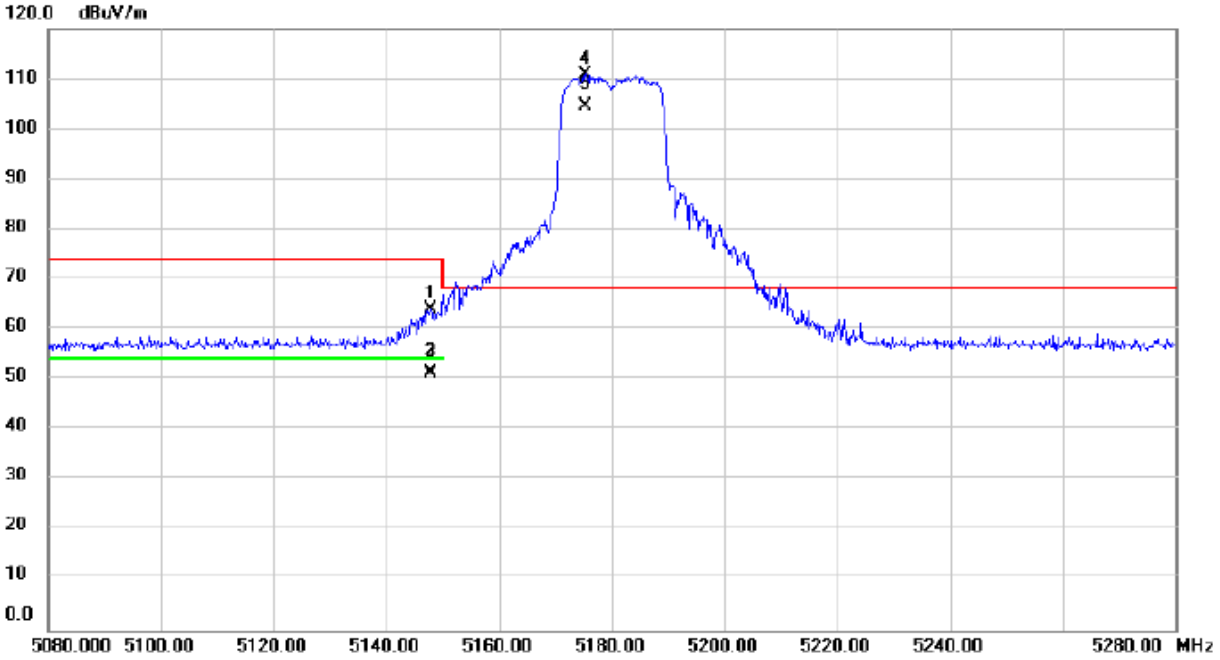
Test Mode	IEEE 802.11a	Test Date	2024/3/28
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5141.600	48.46	10.24	58.70	74.00	-15.30	peak	
2		5141.600	39.48	10.24	49.72	54.00	-4.28	AVG	DCF 2.60db
3		5141.600	36.88	10.24	47.12	54.00	-6.88	AVG	
4	*	5243.400	101.9	10.30	112.20	68.20	44.00	peak	
5	X	5243.400	96.05	10.30	106.35	68.20	38.15	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

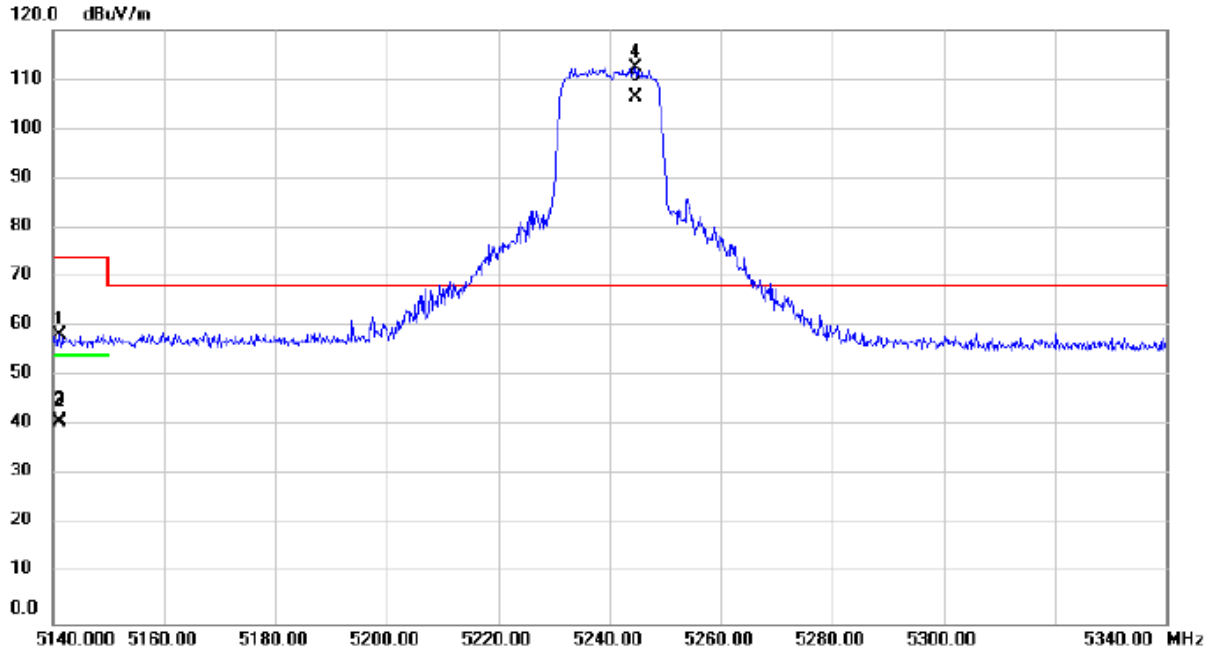
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/28
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.800	53.76	10.24	64.00	74.00	-10.00	peak	
2		5147.800	41.16	10.24	51.40	54.00	-2.60	AVG	DCF 0.21db
3		5147.800	40.95	10.24	51.19	54.00	-2.81	AVG	
4	*	5175.400	100.7	10.25	111.00	68.20	42.80	peak	
5	X	5175.400	94.36	10.25	104.61	68.20	36.41	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

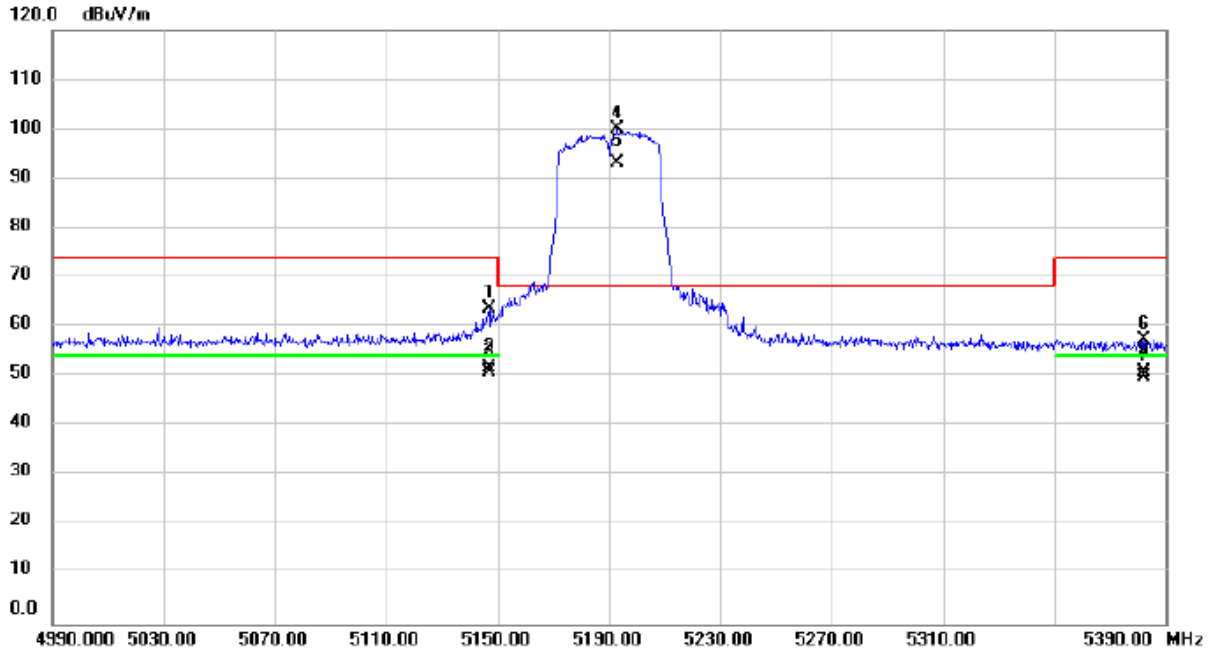
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/28
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5141.200	48.07	10.24	58.31	74.00	-15.69	peak	
2		5141.200	30.35	10.24	40.59	54.00	-13.41	AVG	
3		5141.200	30.56	10.24	40.80	54.00	-13.20	AVG	DCF 0.21db
4	*	5244.600	102.0	10.30	112.38	68.20	44.18	peak	
5	X	5244.600	96.04	10.30	106.34	68.20	38.14	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

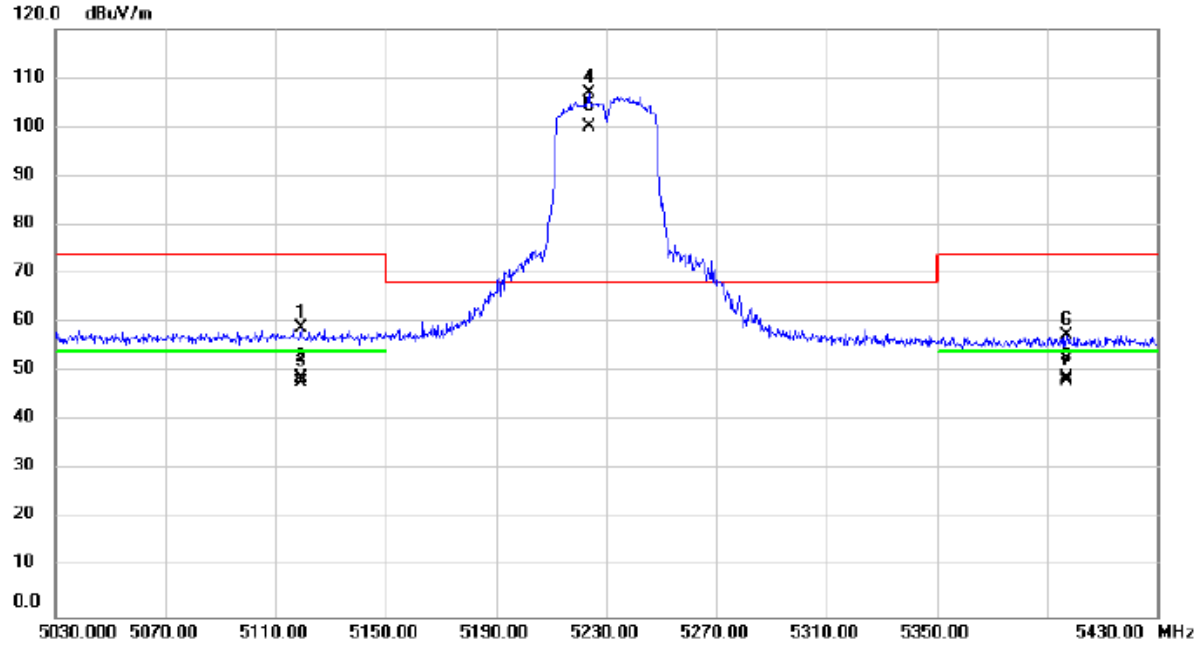
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/3/29
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.800	53.46	10.24	63.70	74.00	-10.30	peak	
2		5146.800	41.38	10.24	51.62	54.00	-2.38	AVG	DCF 0.90db
3		5146.800	40.48	10.24	50.72	54.00	-3.28	AVG	
4	*	5193.200	89.85	10.27	100.12	68.20	31.92	peak	
5	X	5193.200	82.93	10.27	93.20	68.20	25.00	AVG	
6		5382.000	47.08	10.37	57.45	74.00	-16.55	peak	
7		5382.000	39.52	10.37	49.89	54.00	-4.11	AVG	DCF 0.90db
8		5382.000	40.42	10.37	50.79	54.00	-3.21	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

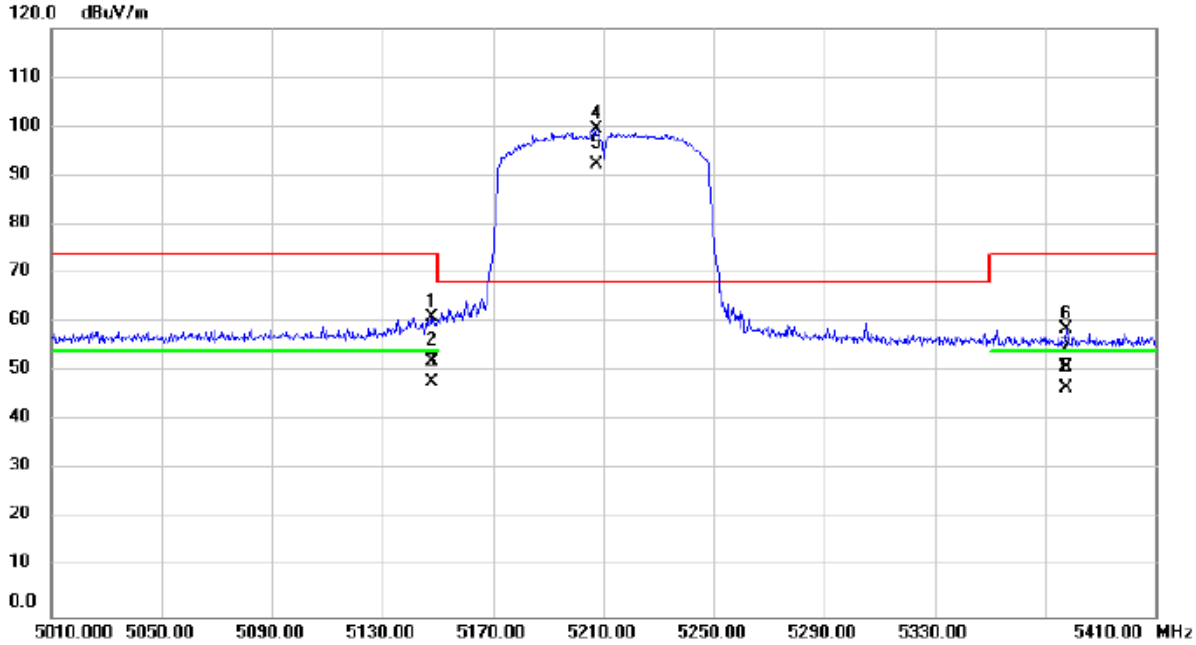
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/3/29
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5119.200	48.62	10.23	58.85	74.00	-15.15	peak	
2		5119.200	38.60	10.23	48.83	54.00	-5.17	AVG	DCF 0.90db
3		5119.200	37.70	10.23	47.93	54.00	-6.07	AVG	
4	*	5223.600	96.76	10.29	107.05	68.20	38.85	peak	
5	X	5223.600	89.89	10.29	100.18	68.20	31.98	AVG	
6		5397.200	46.97	10.39	57.36	74.00	-16.64	peak	
7		5397.200	37.90	10.39	48.29	54.00	-5.71	AVG	
8		5397.200	38.80	10.39	49.19	54.00	-4.81	AVG	DCF 0.90db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

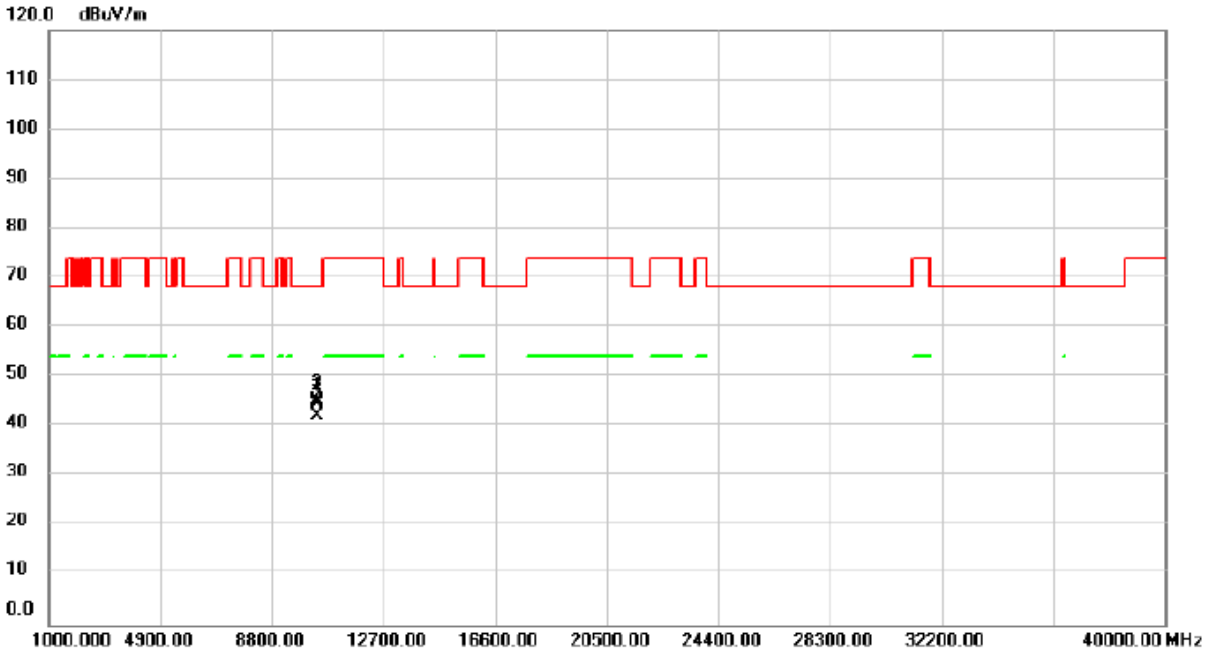
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/3/29
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.000	50.91	10.24	61.15	74.00	-12.85	peak	
2		5148.000	41.67	10.24	51.91	54.00	-2.09	AVG	DCF 4.15db
3		5148.000	37.52	10.24	47.76	54.00	-6.24	AVG	
4	*	5207.600	89.23	10.27	99.50	68.20	31.30	peak	
5	X	5207.600	81.90	10.27	92.17	68.20	23.97	AVG	
6		5377.600	48.16	10.37	58.53	74.00	-15.47	peak	
7		5377.600	40.40	10.37	50.77	54.00	-3.23	AVG	DCF 4.15db
8		5377.600	36.25	10.37	46.62	54.00	-7.38	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) X and * represent fundamental frequency and with no limit.

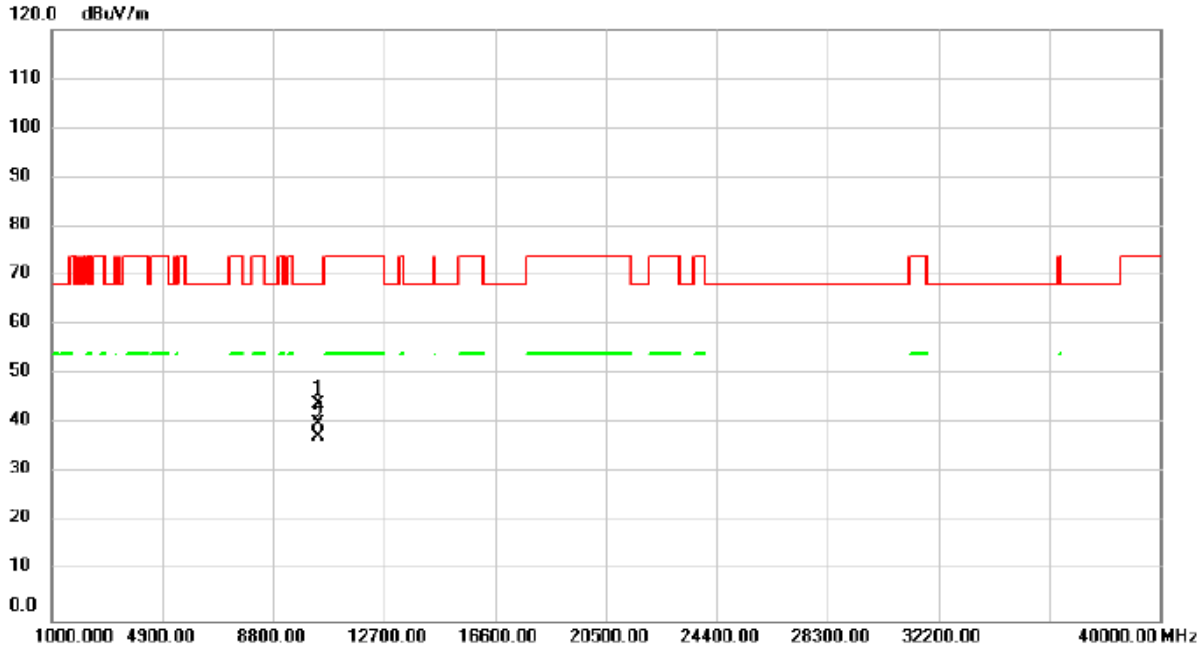
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	41.69	3.58	45.27	68.20	-22.93	peak	
2		10360.00	38.47	3.58	42.05	68.20	-26.15	AVG	
3		10360.00	41.07	3.58	44.65	68.20	-23.55	AVG	DCF 2.60db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

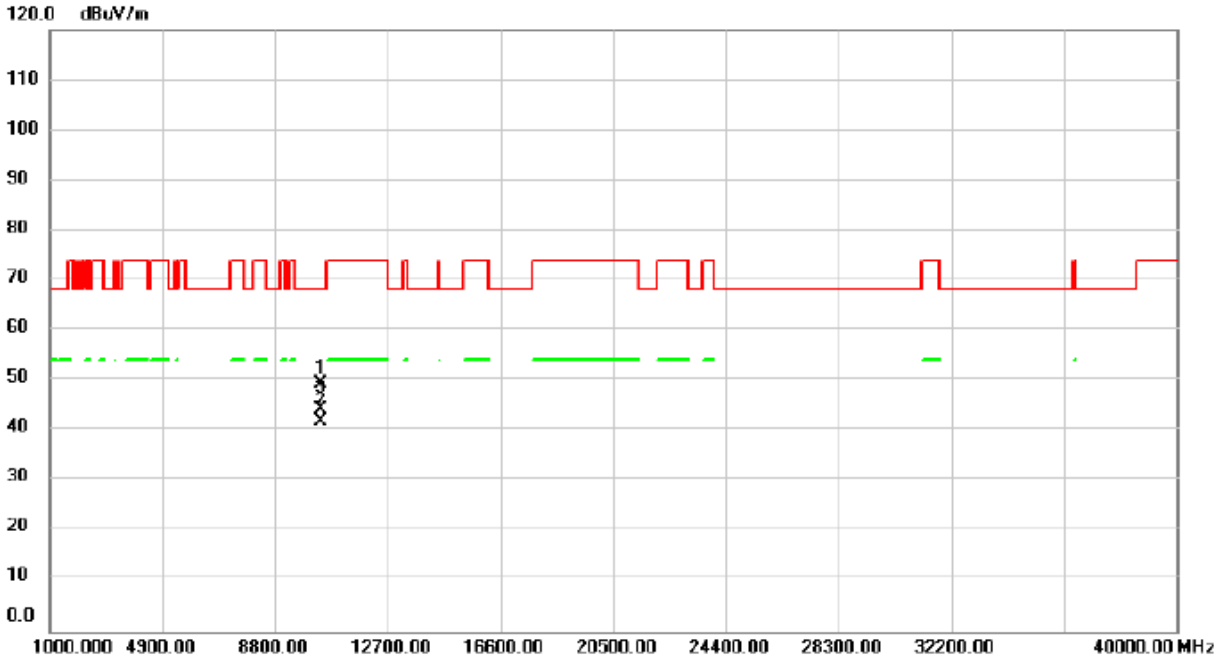
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5180MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	40.45	3.58	44.03	68.20	-24.17	peak	
2		10360.00	33.87	3.58	37.45	68.20	-30.75	AVG	
3		10360.00	36.47	3.58	40.05	68.20	-28.15	AVG	DCF 2.60db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

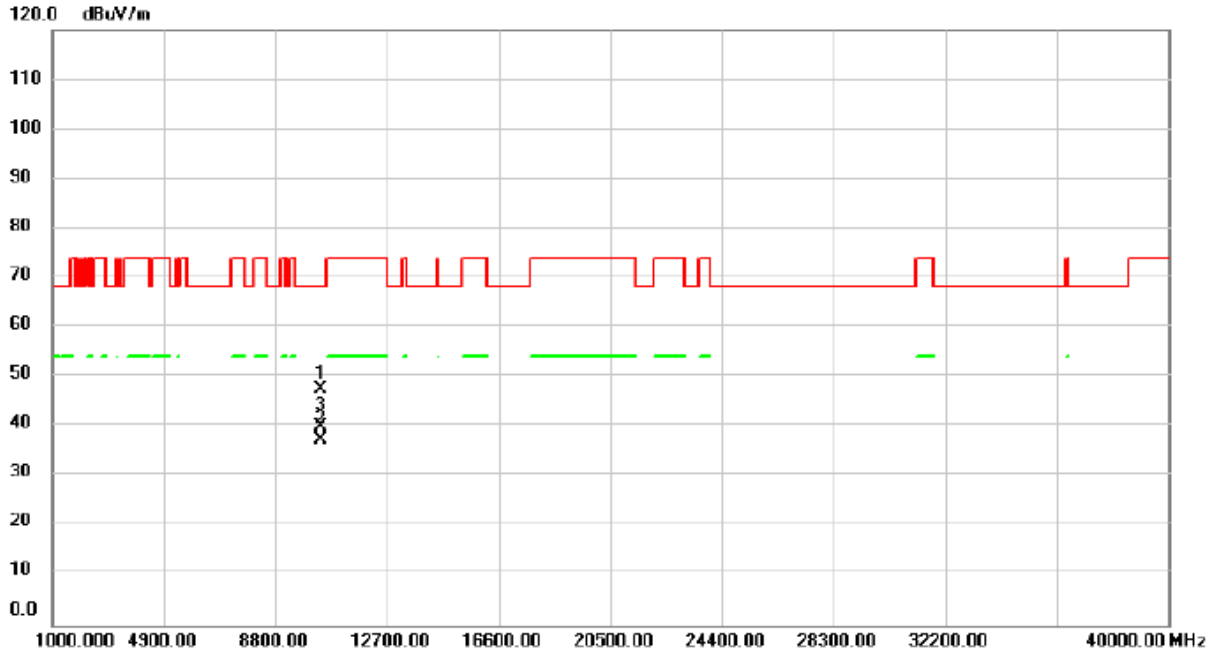
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	45.74	3.57	49.31	68.20	-18.89	peak	
2		10400.00	38.21	3.57	41.78	68.20	-26.42	AVG	
3		10400.00	40.81	3.57	44.38	68.20	-23.82	AVG	DCF 2.60db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

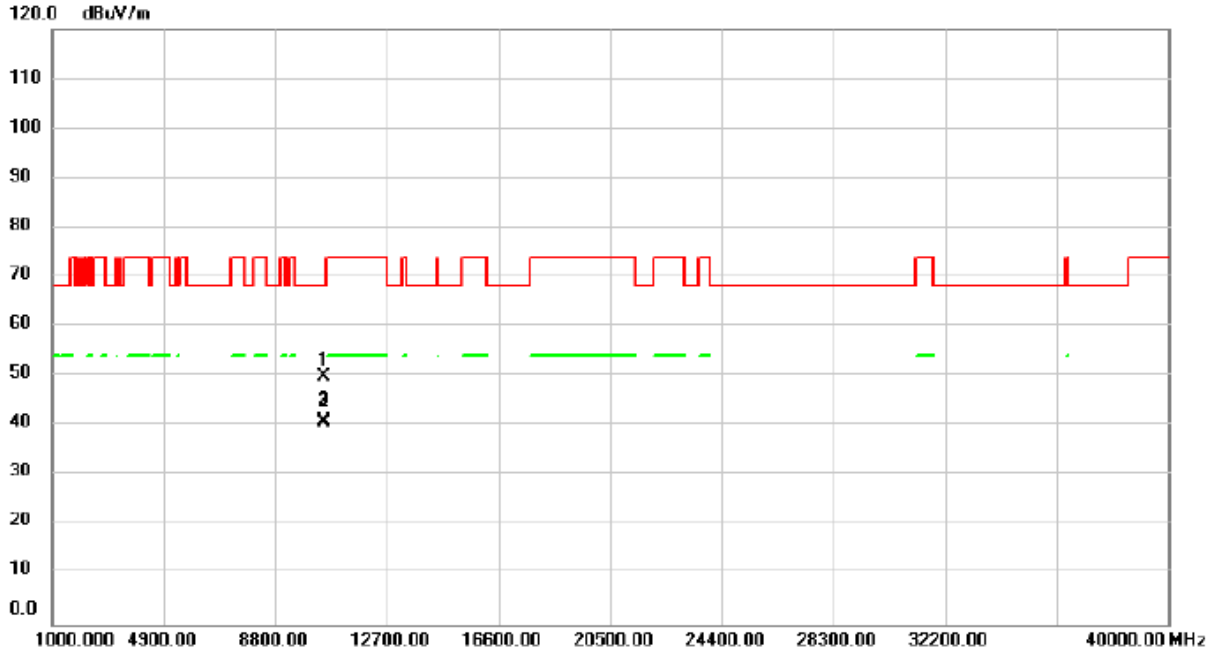
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5200MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	43.84	3.57	47.41	68.20	-20.79	peak	
2		10400.00	33.79	3.57	37.36	68.20	-30.84	AVG	
3		10400.00	36.39	3.57	39.96	68.20	-28.24	AVG	DCF 2.60db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

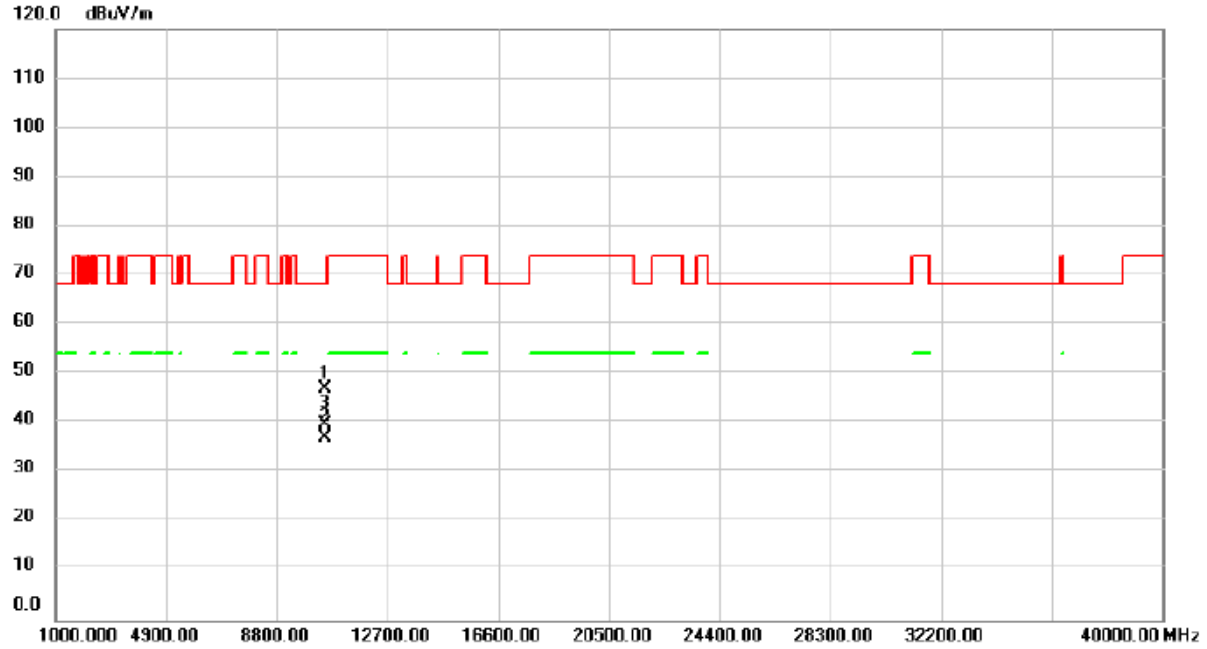
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	46.50	3.54	50.04	68.20	-18.16	peak	
2		10480.00	37.14	3.54	40.68	68.20	-27.52	AVG	
3		10480.00	39.74	3.54	43.28	68.20	-24.92	AVG	DCF 2.6db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

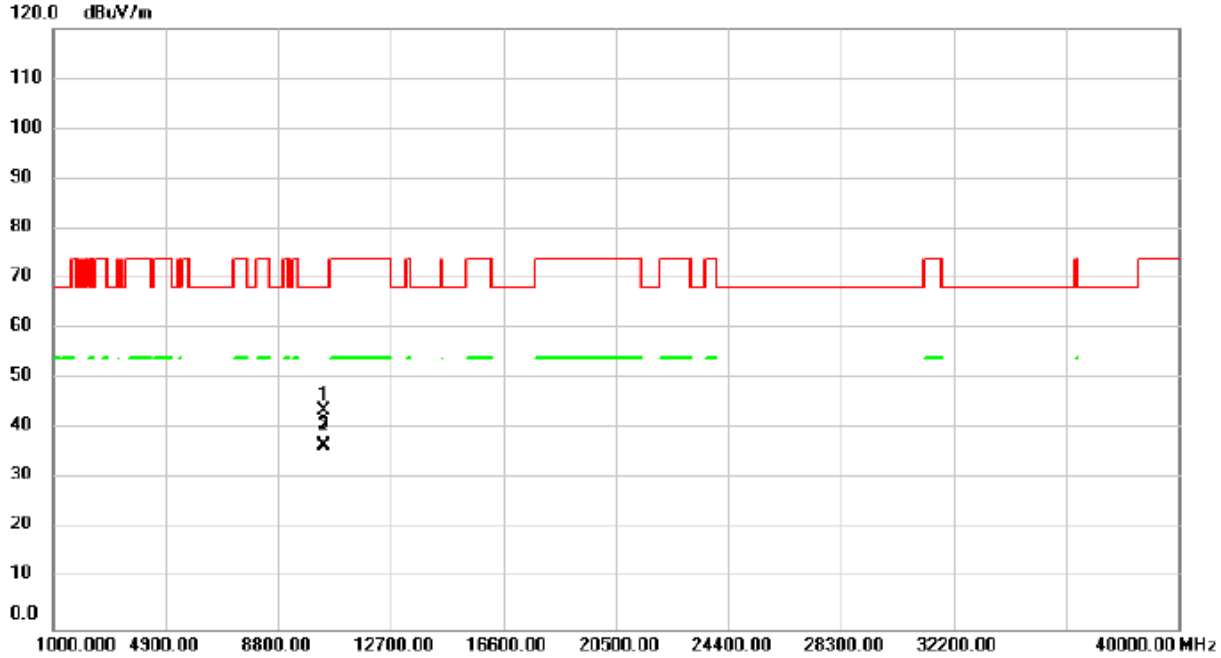
Test Mode	IEEE 802.11a	Test Date	2024/3/29
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	43.33	3.54	46.87	68.20	-21.33	peak	
2		10480.00	33.64	3.54	37.18	68.20	-31.02	AVG	
3		10480.00	36.24	3.54	39.78	68.20	-28.42	AVG	DCF 2.60db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

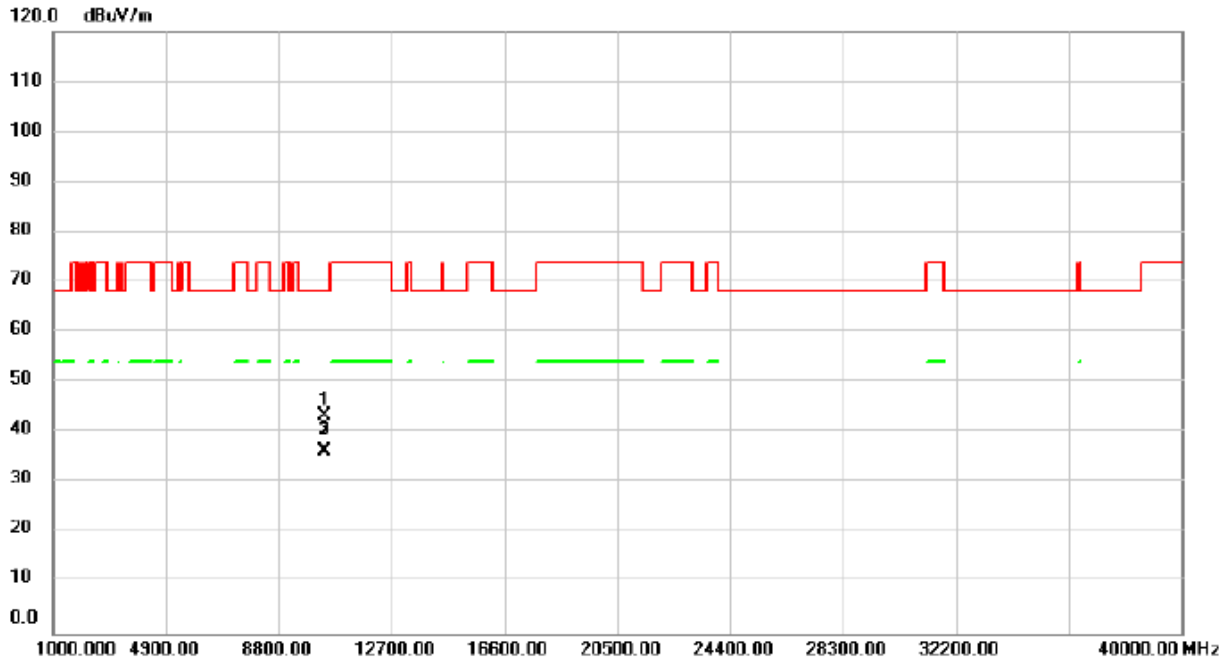
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5180MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	40.15	3.58	43.73	68.20	-24.47	peak	
2		10360.00	32.93	3.58	36.51	68.20	-31.69	AVG	
3		10360.00	33.14	3.58	36.72	68.20	-31.48	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

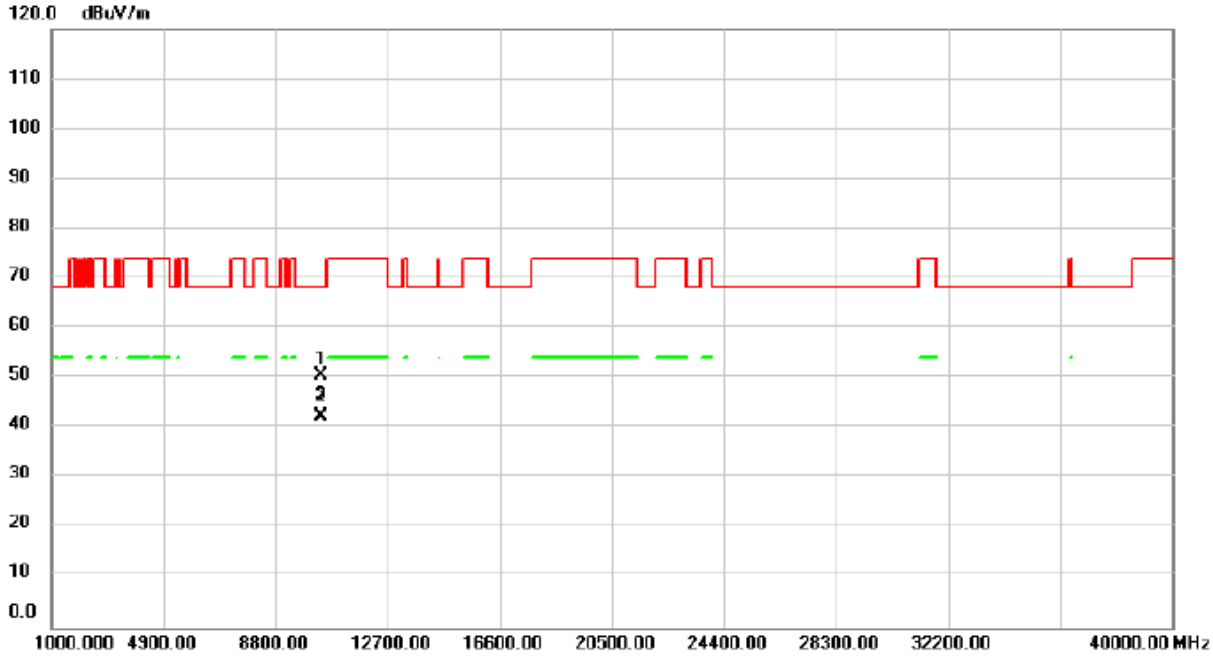
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5180MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	39.68	3.58	43.26	68.20	-24.94	peak	
2		10360.00	32.66	3.58	36.24	68.20	-31.96	AVG	
3		10360.00	32.87	3.58	36.45	68.20	-31.75	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

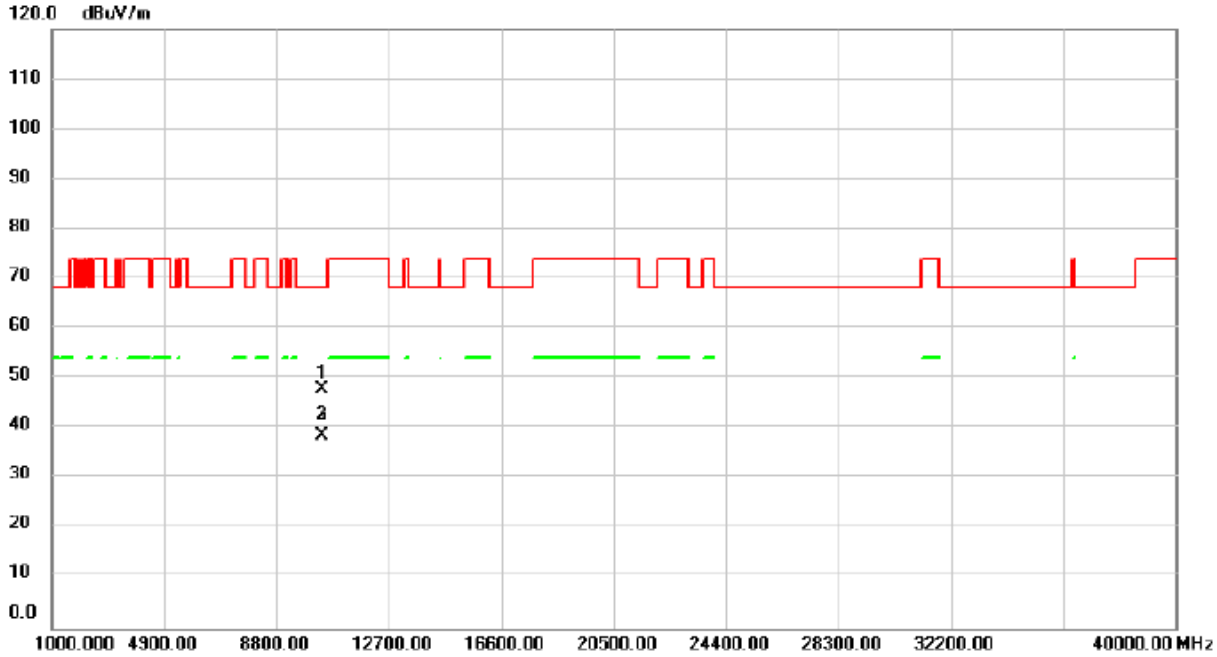
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5200MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	47.09	3.57	50.66	68.20	-17.54	peak	
2		10400.00	38.69	3.57	42.26	68.20	-25.94	AVG	
3		10400.00	38.90	3.57	42.47	68.20	-25.73	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

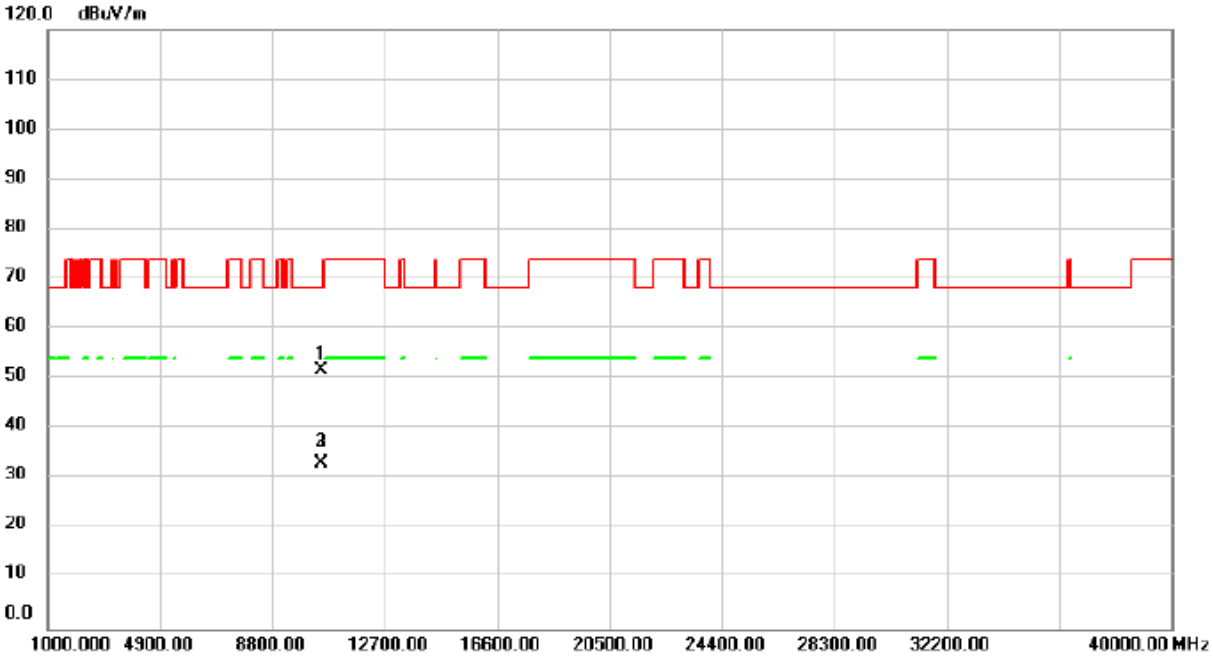
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5200MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	44.30	3.57	47.87	68.20	-20.33	peak	
2		10400.00	34.88	3.57	38.45	68.20	-29.75	AVG	
3		10400.00	35.09	3.57	38.66	68.20	-29.54	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

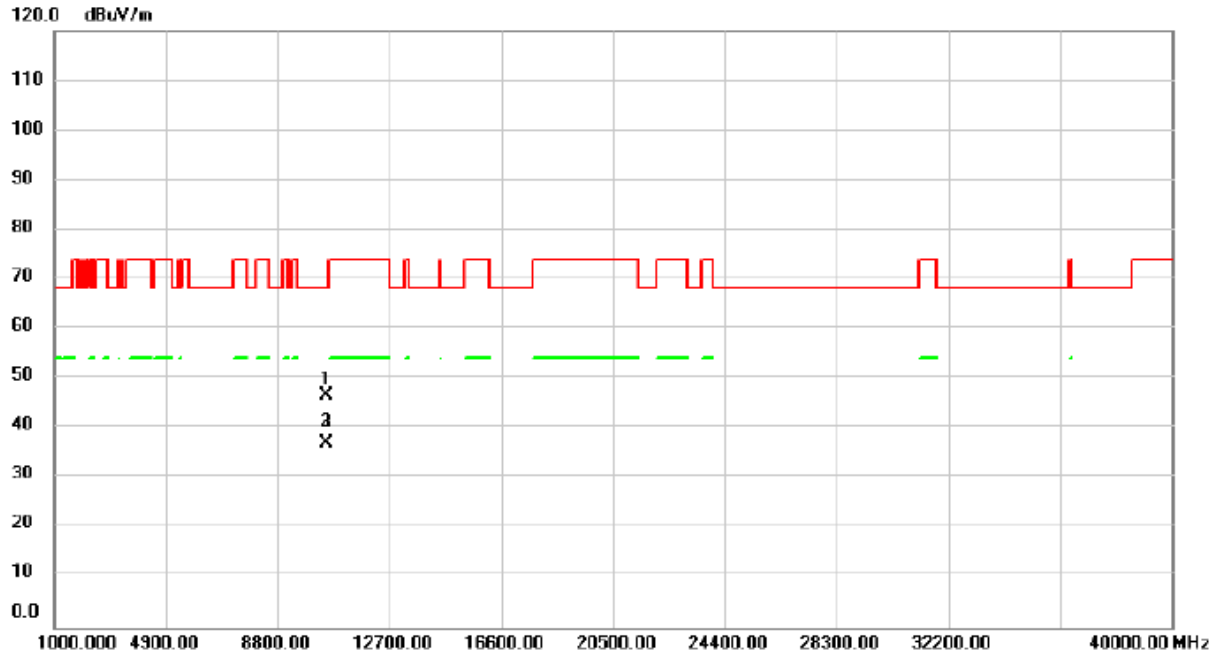
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5240MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	48.12	3.54	51.66	68.20	-16.54	peak	
2		10480.00	29.52	3.54	33.06	68.20	-35.14	AVG	
3		10480.00	29.73	3.54	33.27	68.20	-34.93	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

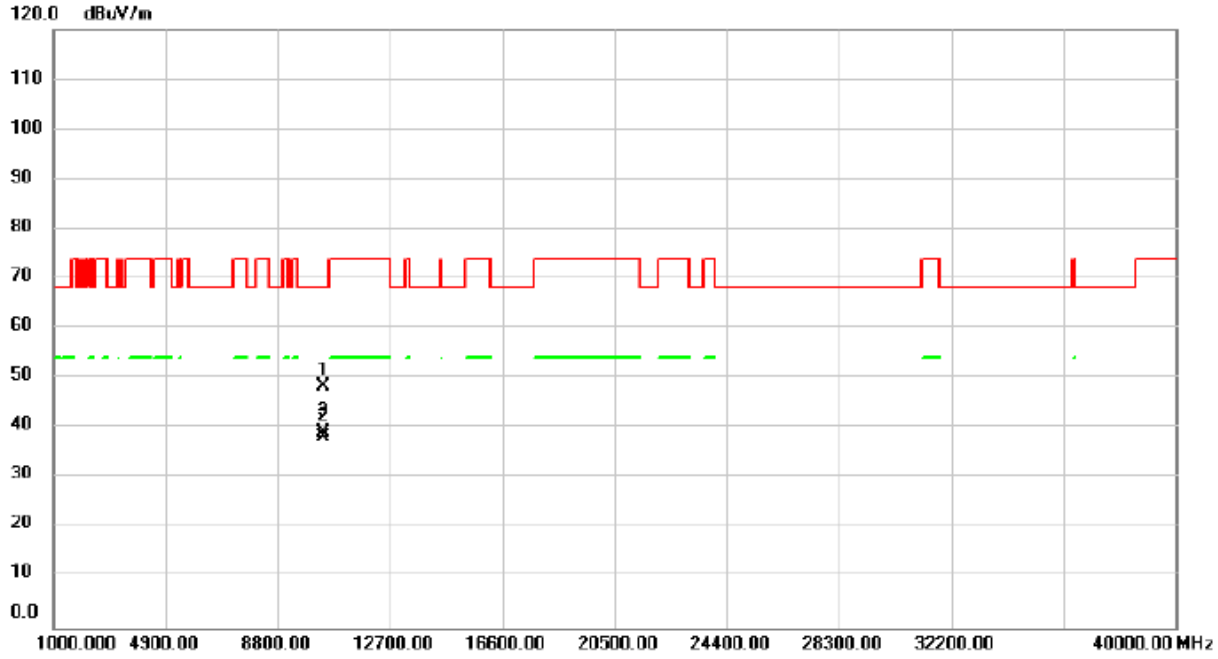
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5240MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	42.98	3.54	46.52	68.20	-21.68	peak	
2		10480.00	33.44	3.54	36.98	68.20	-31.22	AVG	
3		10480.00	33.65	3.54	37.19	68.20	-31.01	AVG	DCF 0.21db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

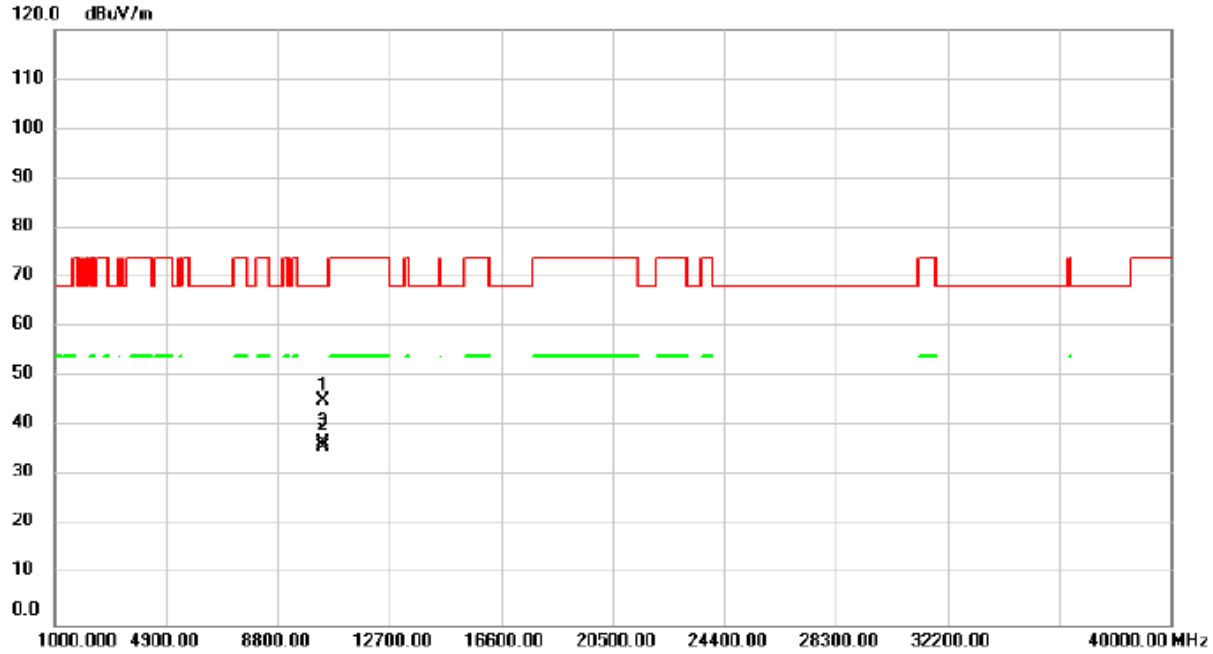
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/3/29
Test Frequency	5190MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	44.75	3.57	48.32	68.20	-19.88	peak	
2		10380.00	34.75	3.57	38.32	68.20	-29.88	AVG	
3		10380.00	35.65	3.57	39.22	68.20	-28.98	AVG	DCF 0.90db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

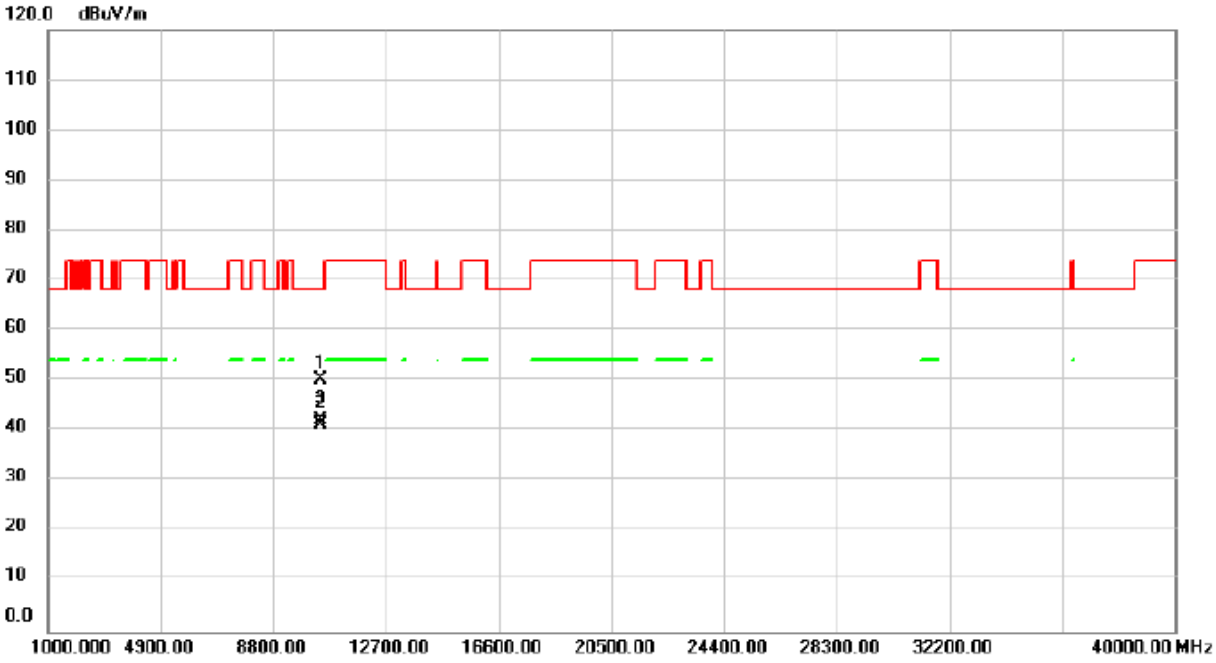
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/3/29
Test Frequency	5190MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	41.62	3.57	45.19	68.20	-23.01	peak	
2		10380.00	32.40	3.57	35.97	68.20	-32.23	AVG	
3		10380.00	33.30	3.57	36.87	68.20	-31.33	AVG	DCF 0.90db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

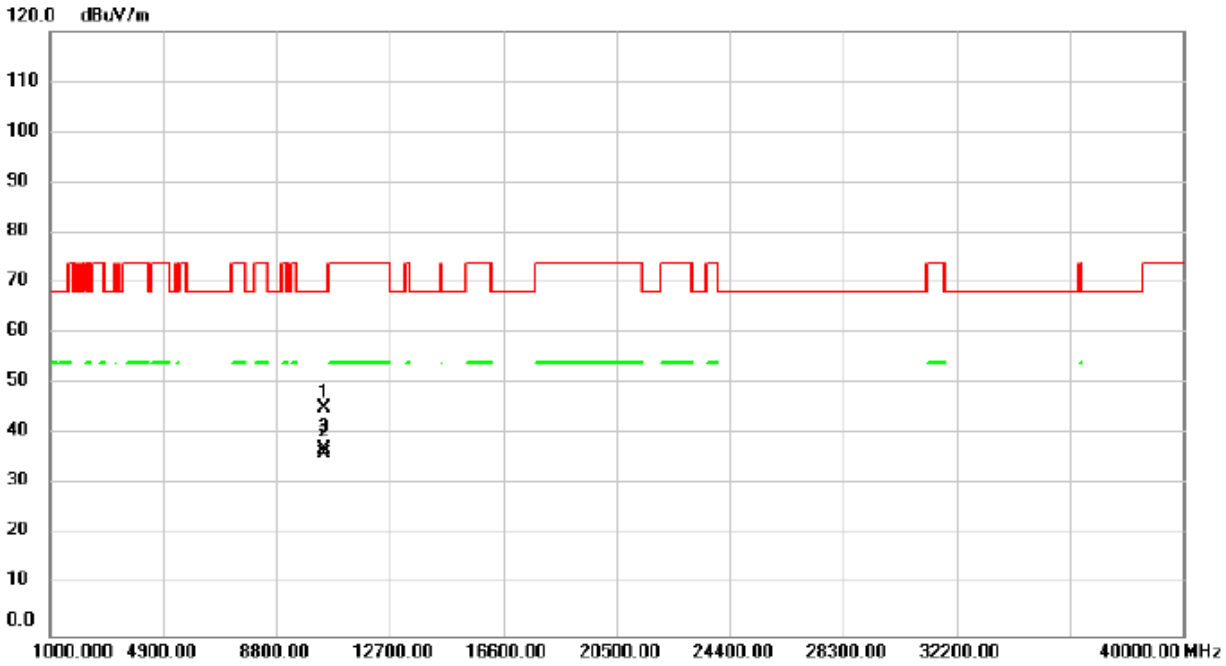
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/3/29
Test Frequency	5230MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	46.83	3.55	50.38	68.20	-17.82	peak	
2		10460.00	37.60	3.55	41.15	68.20	-27.05	AVG	
3		10460.00	38.50	3.55	42.05	68.20	-26.15	AVG	DCF 0.90db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

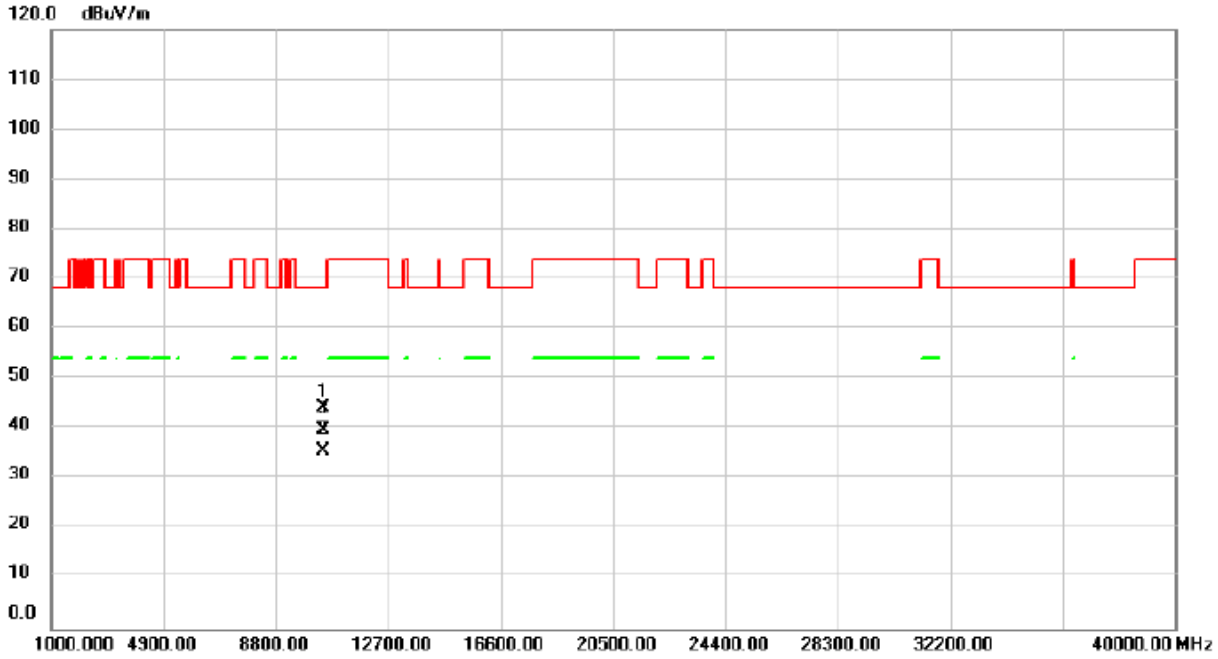
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/3/29
Test Frequency	5230MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	41.65	3.55	45.20	68.20	-23.00	peak	
2		10460.00	32.61	3.55	36.16	68.20	-32.04	AVG	
3		10460.00	33.51	3.55	37.06	68.20	-31.14	AVG	DCF 0.90db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

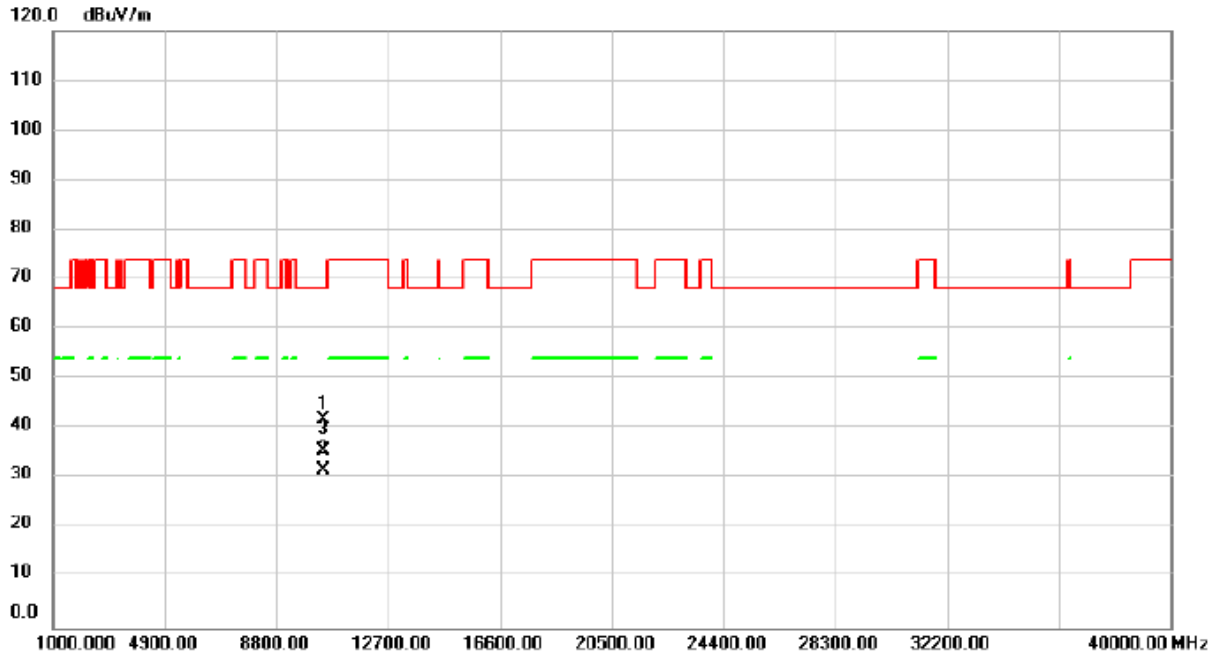
Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/3/29
Test Frequency	5210MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	40.81	3.56	44.37	68.20	-23.83	peak	
2		10420.00	31.98	3.56	35.54	68.20	-32.66	AVG	
3		10420.00	36.13	3.56	39.69	68.20	-28.51	AVG	DCF 4.15db

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

Test Mode	IEEE 802.11ac (VHT80)	Test Date	2024/3/29
Test Frequency	5210MHz	Polarization	Horizontal
Temp	25°C	Hum.	60%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	38.37	3.56	41.93	68.20	-26.27	peak	
2		10420.00	27.95	3.56	31.51	68.20	-36.69	AVG	
3		10420.00	32.10	3.56	35.66	68.20	-32.54	AVG	DCF 4.15db

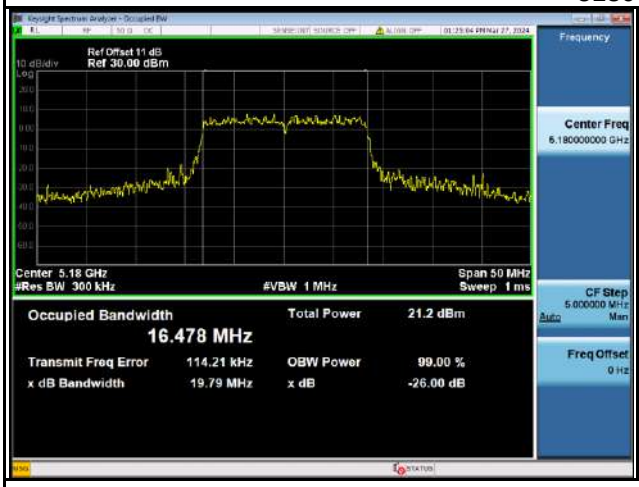
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) *: Maximum data x: Over limit !: Over margin

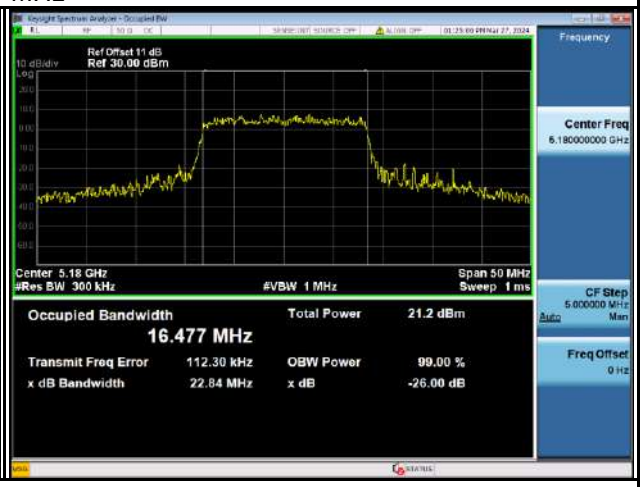
APPENDIX D BANDWIDTH

Test Mode	IEEE 802.11a

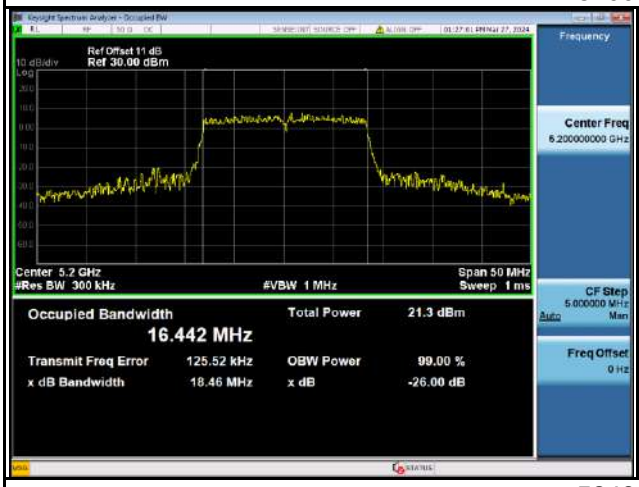
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	19.79	16.48
5200	18.46	16.42
5240	18.56	16.48

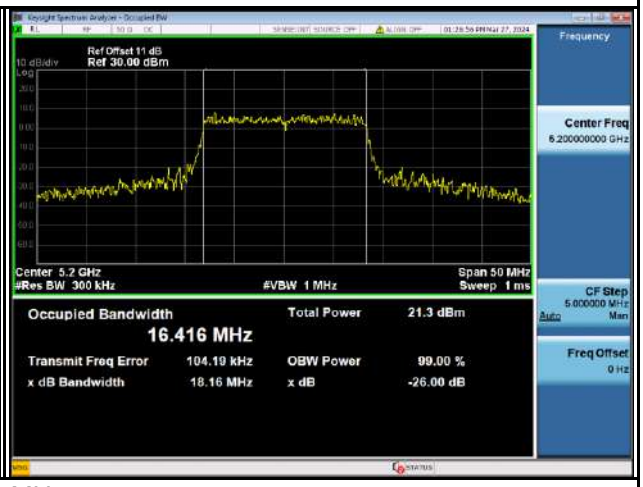
5180 MHz



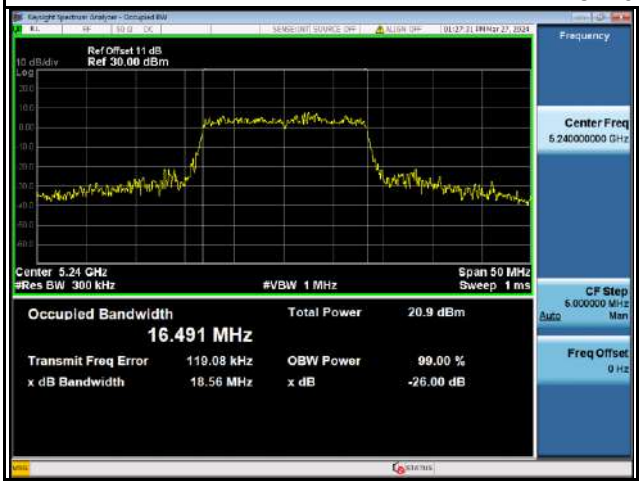


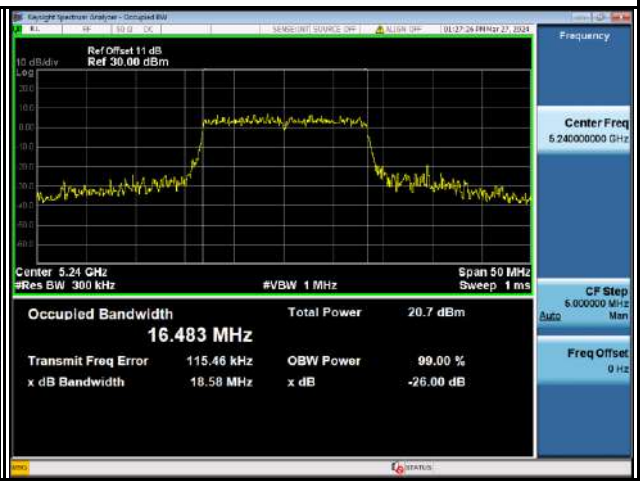
5200 MHz





5240 MHz





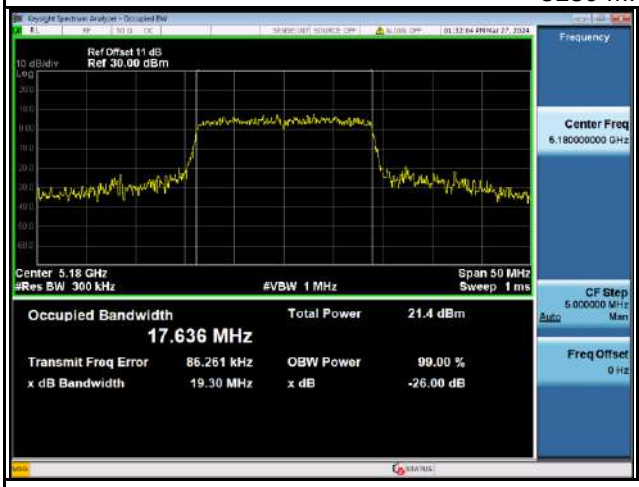
Test Mode	IEEE 802.11n (HT20) ANT1

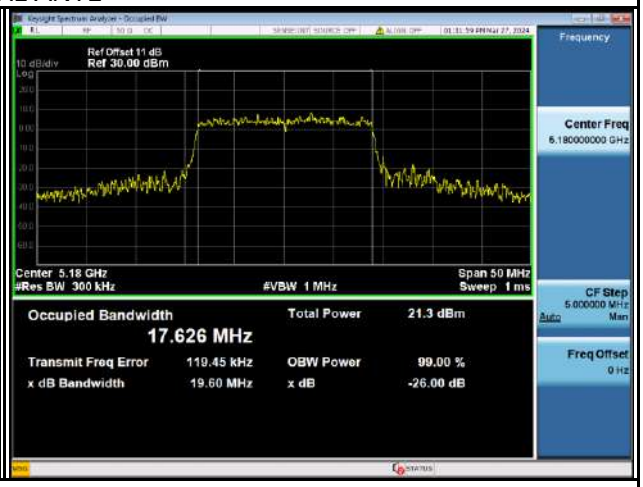
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	19.30	17.63
5200	19.45	17.65
5240	19.67	17.59

Test Mode	IEEE 802.11n (HT20) ANT2

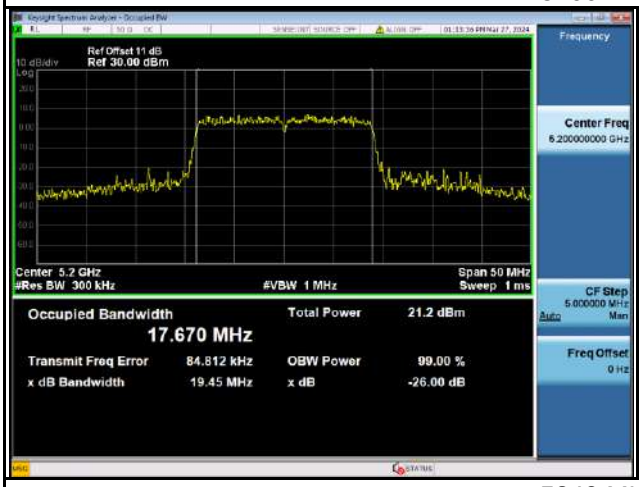
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	23.43	17.65
5200	25.78	17.71
5240	23.76	17.71

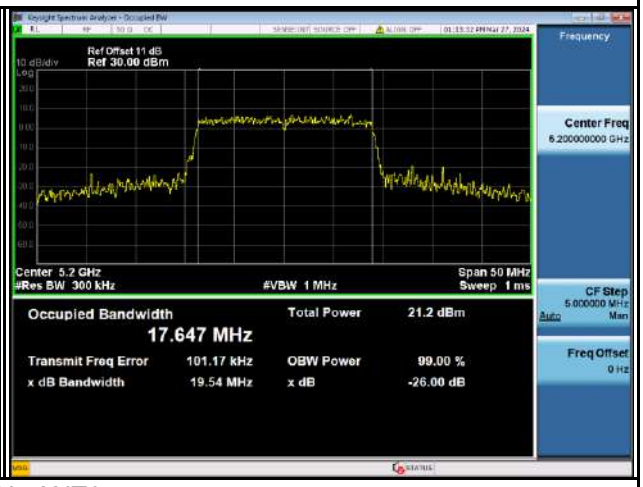
5180 MHz ANT1



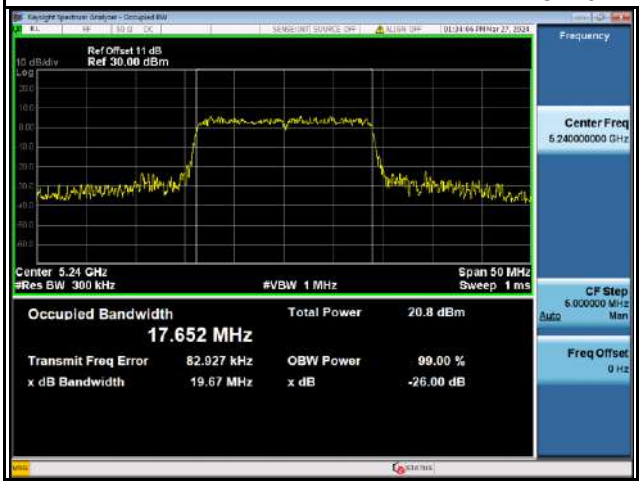


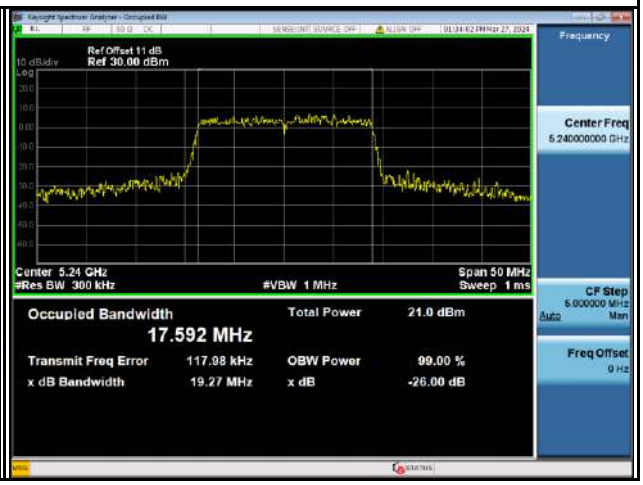
5200 MHz ANT1



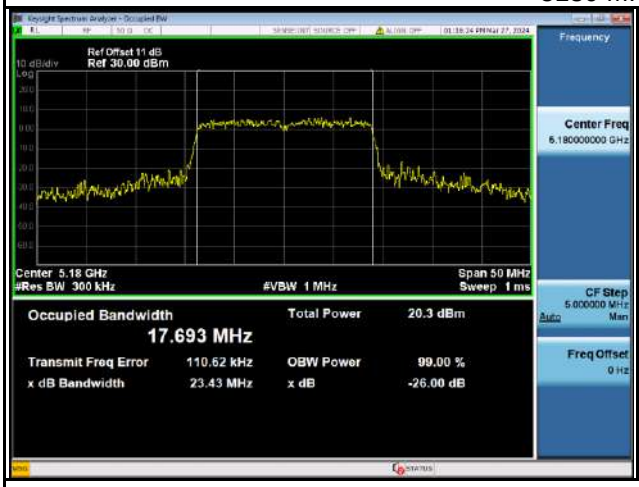


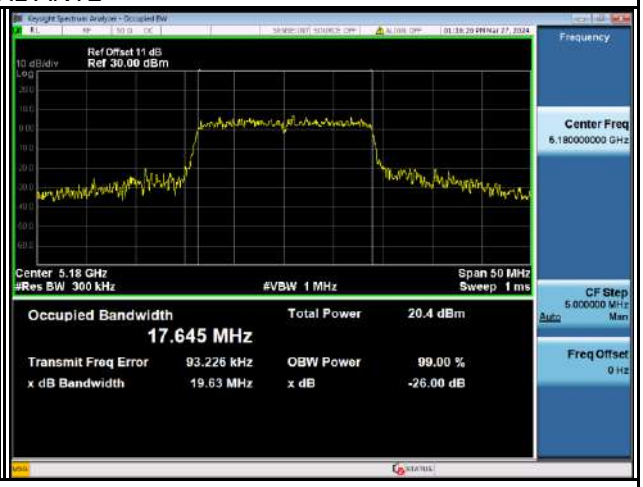
5240 MHz ANT1



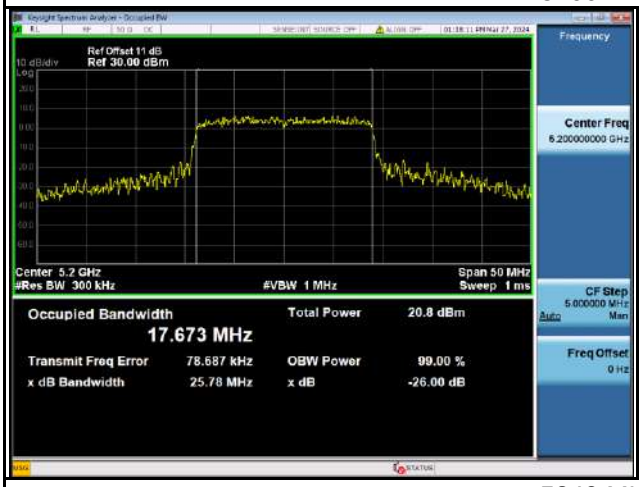


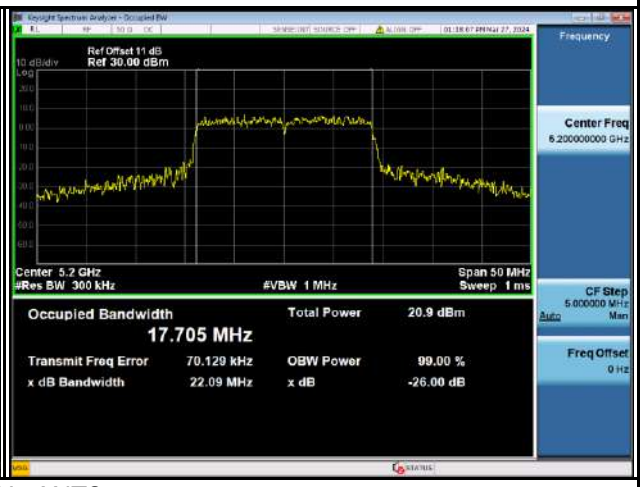
5180 MHz ANT2



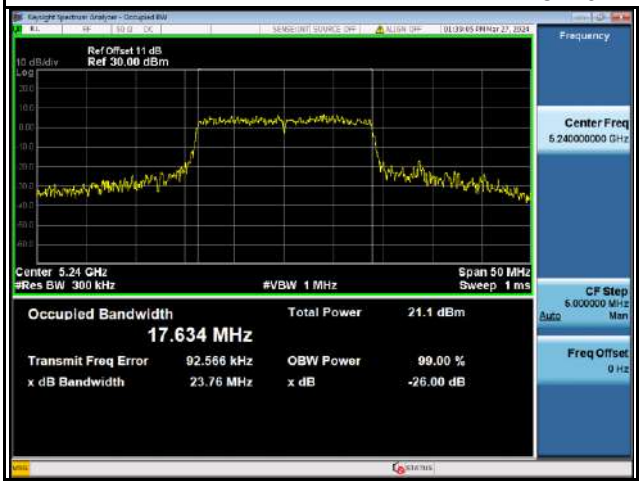


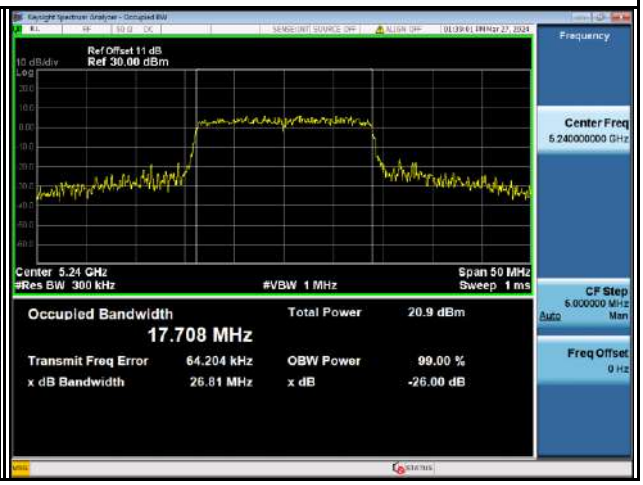
5200 MHz ANT2





5240 MHz ANT2





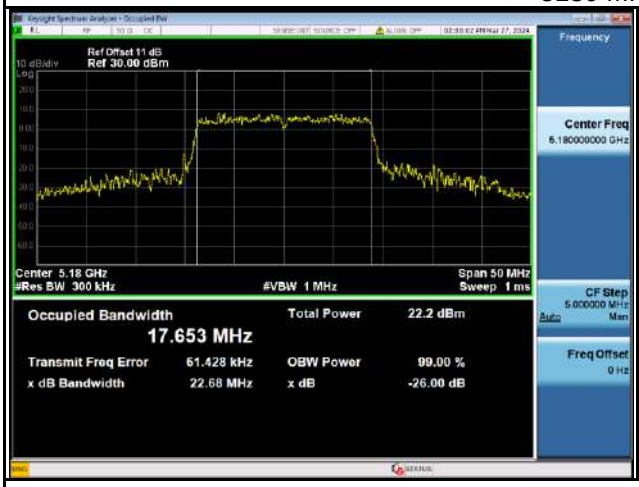
Test Mode	IEEE 802.11ac (VHT20) ANT1

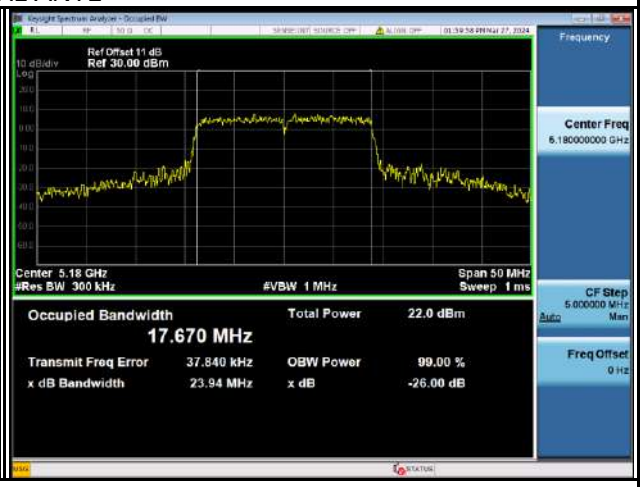
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	22.68	17.67
5200	21.05	17.66
5240	19.81	17.61

Test Mode	IEEE 802.11ac (VHT20) ANT2

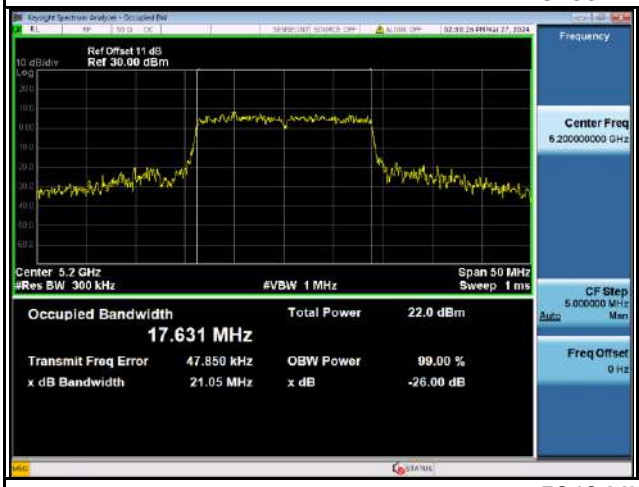
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5180	23.45	17.67
5200	29.57	17.70
5240	29.98	17.72

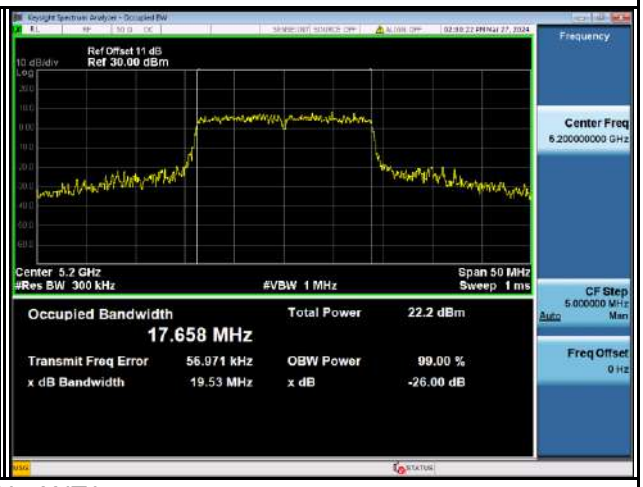
5180 MHz ANT1



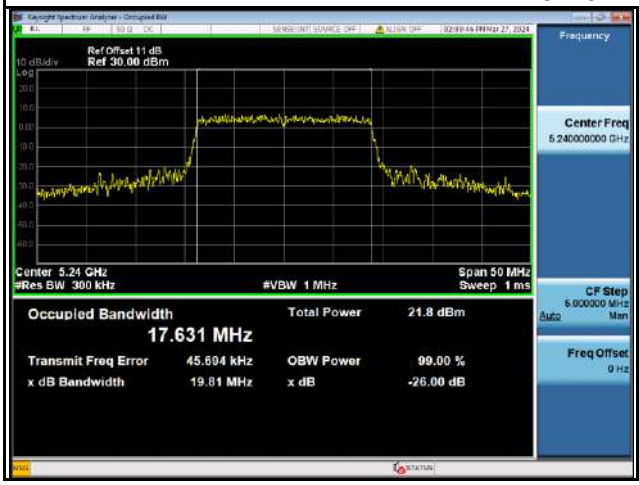


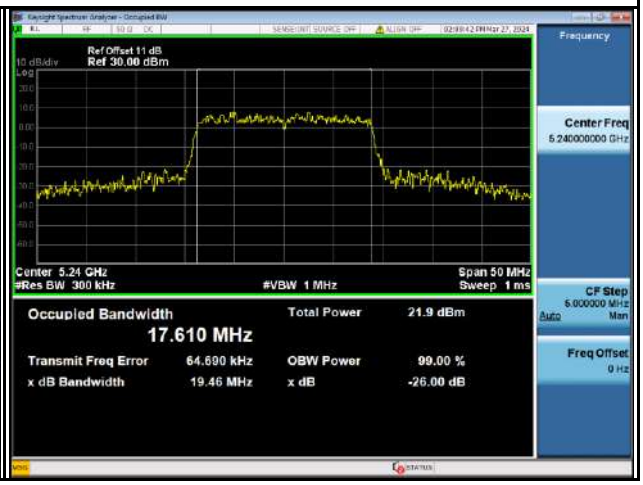
5200 MHz ANT1



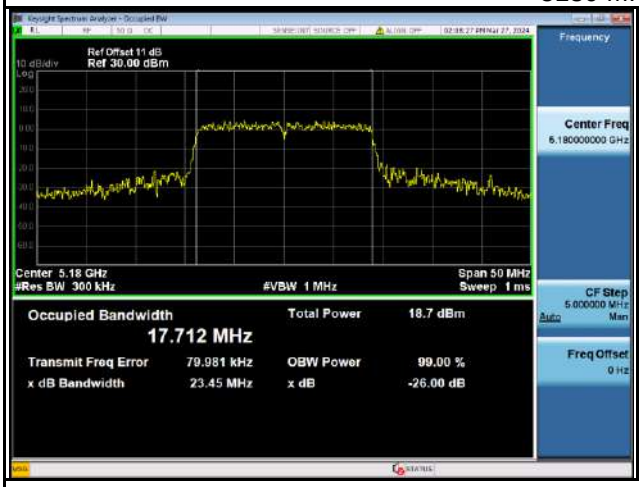


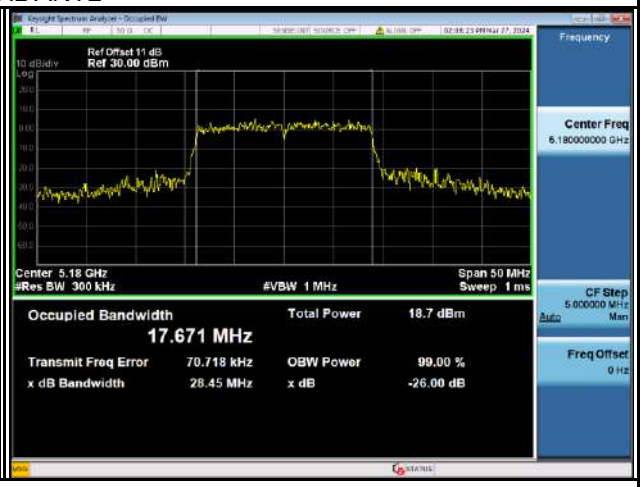
5240 MHz ANT1



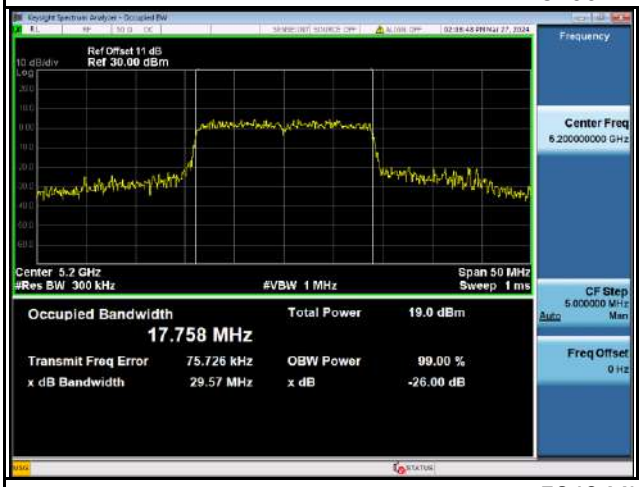


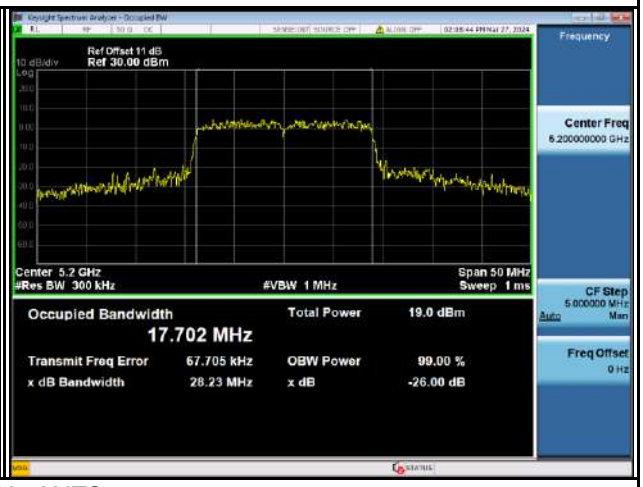
5180 MHz ANT2



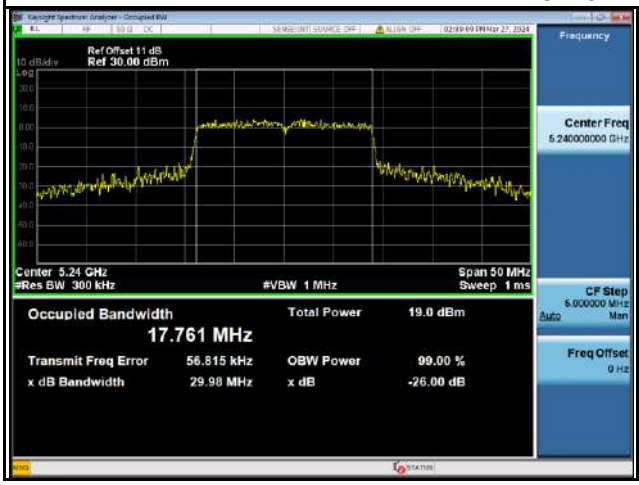


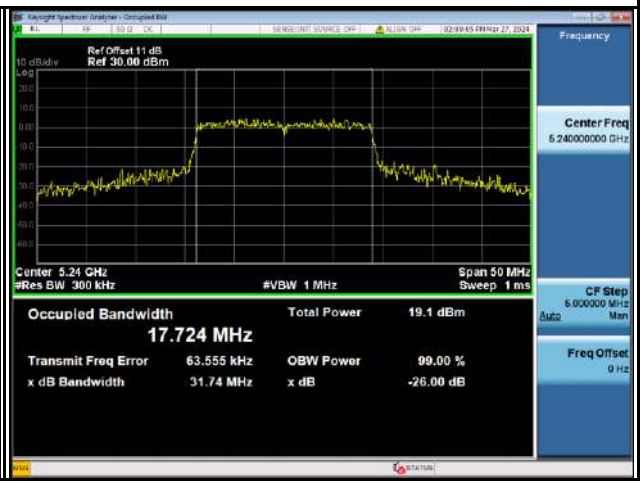
5200 MHz ANT2





5240 MHz ANT2

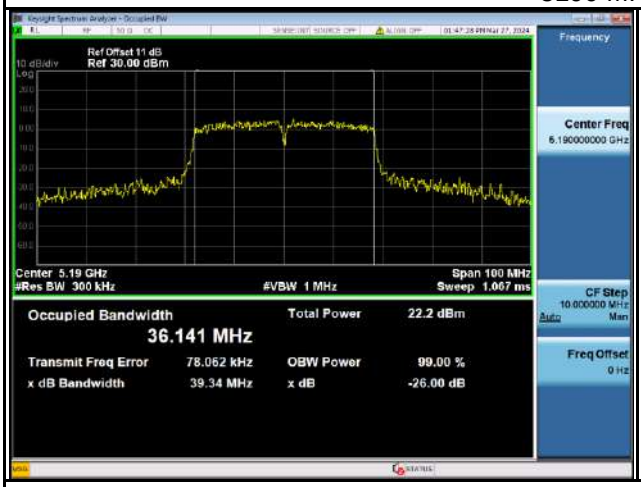


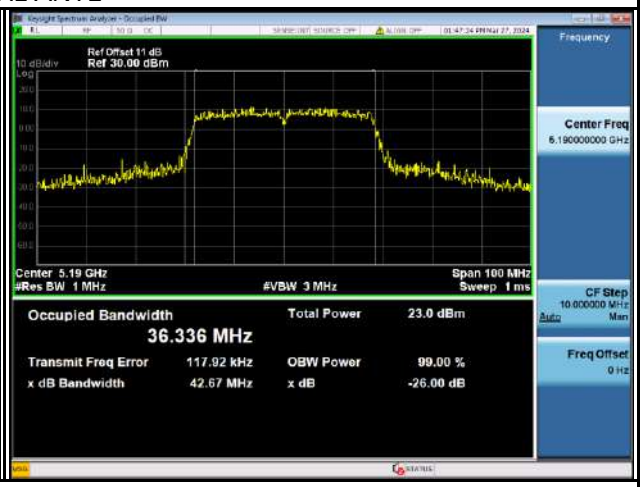


Test Mode	IEEE 802.11n (HT40) ANT1

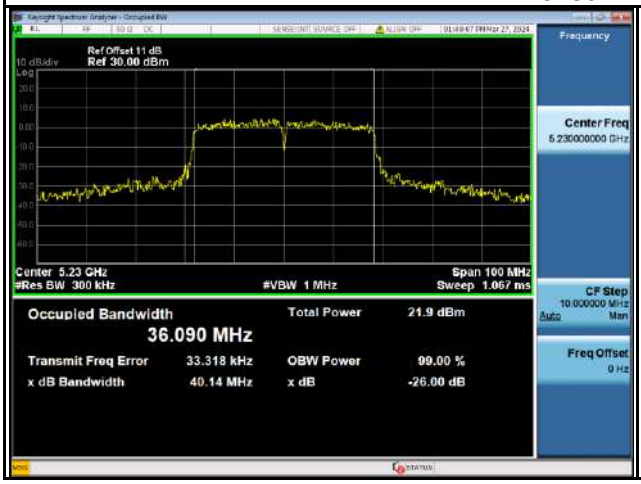
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5190	39.34	36.34
5230	40.14	36.36

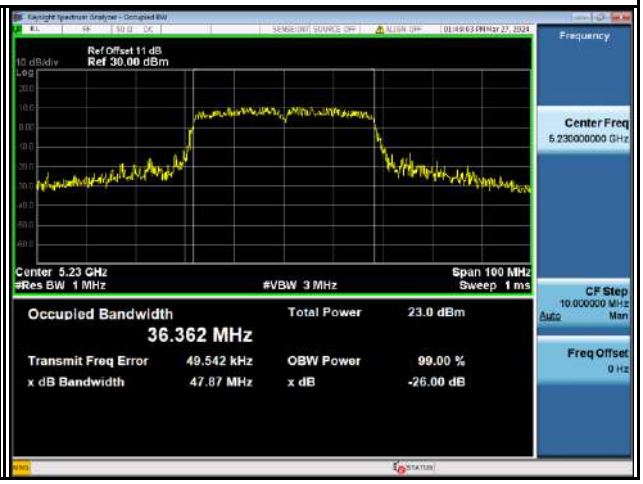
5190 MHz ANT1





5230 MHz ANT1

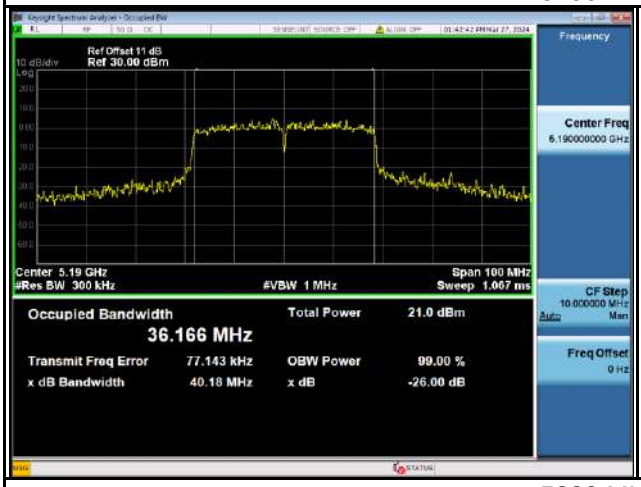


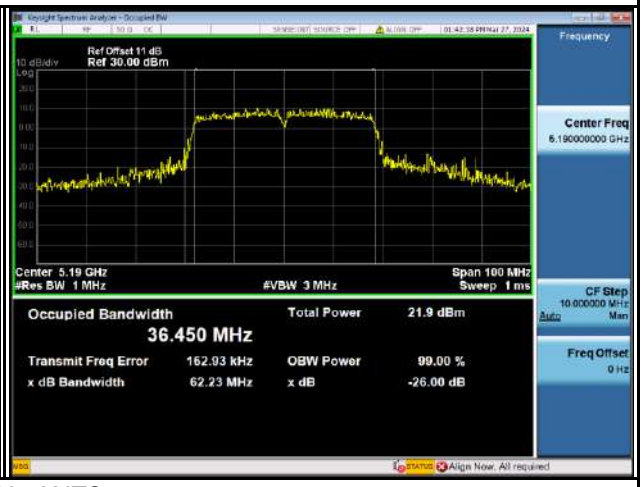


Test Mode	IEEE 802.11n (HT40) ANT2

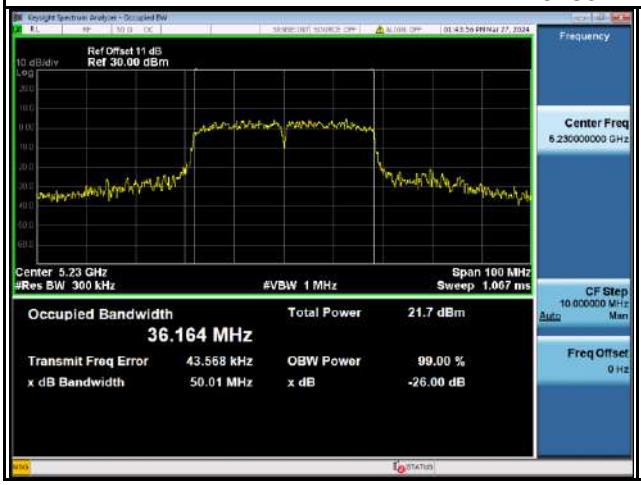
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5190	40.18	36.45
5230	50.01	36.36

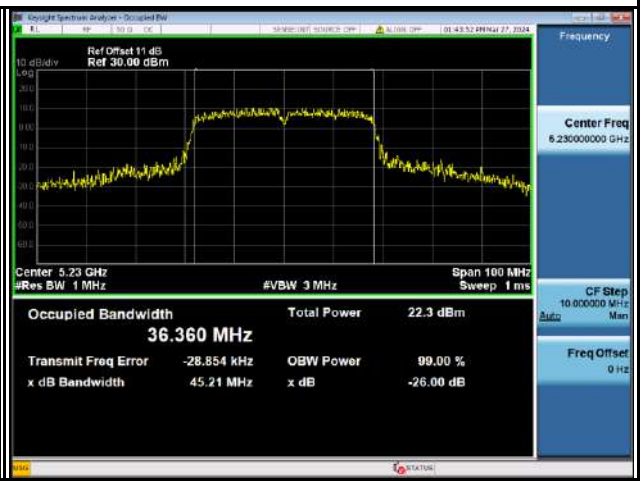
5190 MHz ANT2





5230 MHz ANT2

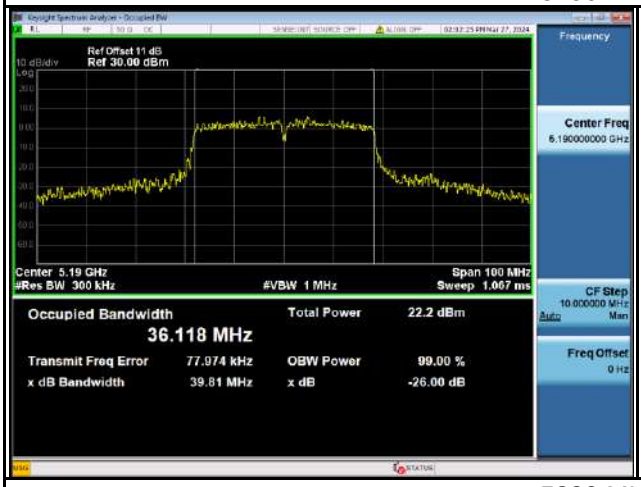


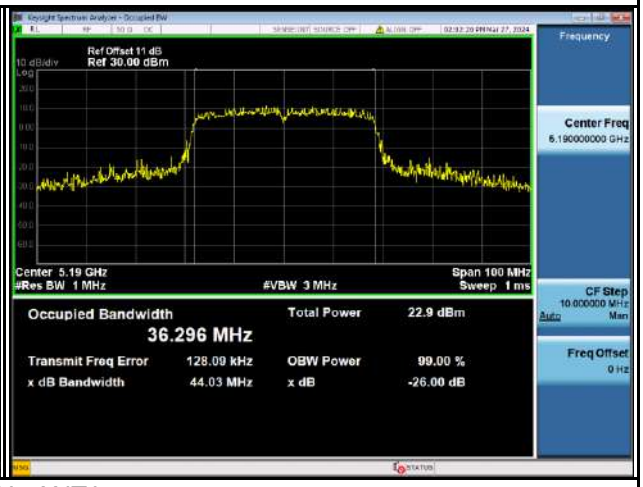


Test Mode	IEEE 802.11ac (VHT40) ANT1

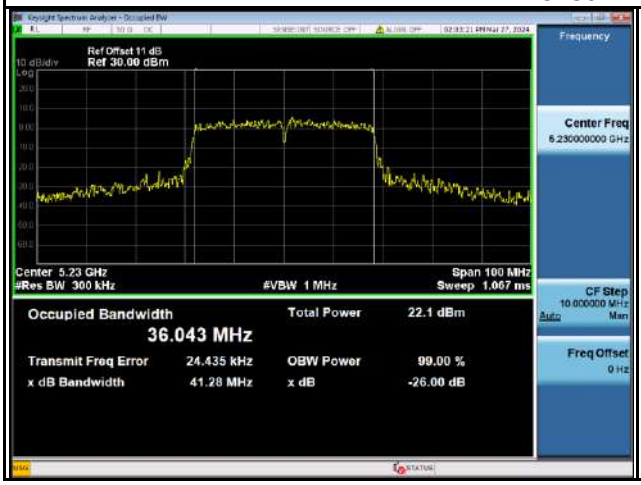
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5190	39.81	36.30
5230	41.28	36.43

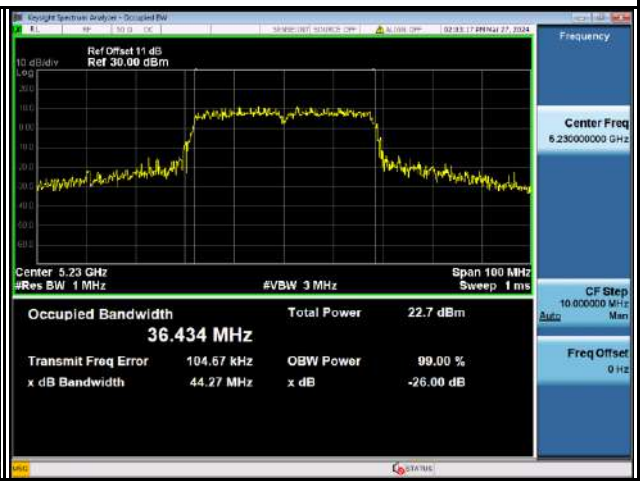
5190 MHz ANT1





5230 MHz ANT1

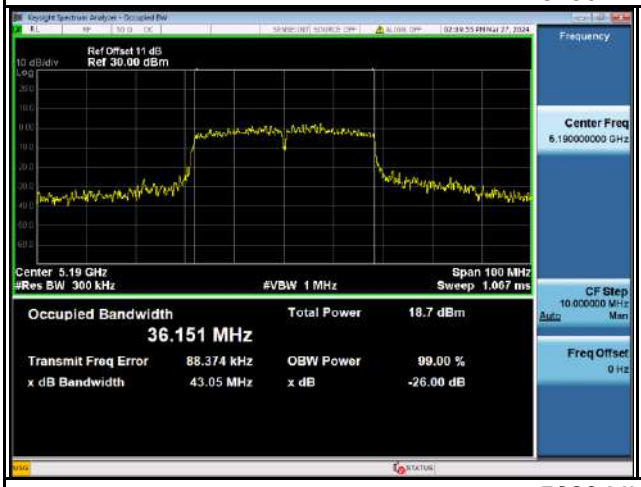


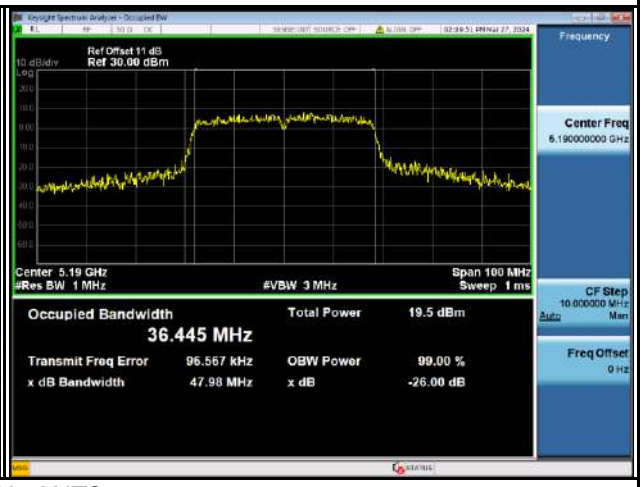


Test Mode	IEEE 802.11ac (VHT40) ANT2

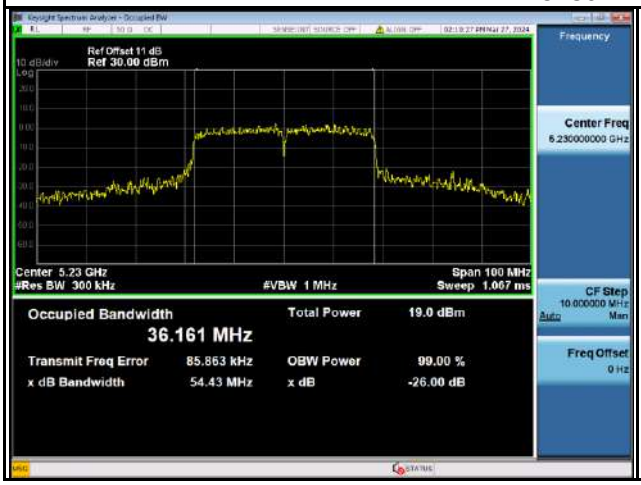
Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5190	43.05	36.45
5230	54.43	36.67

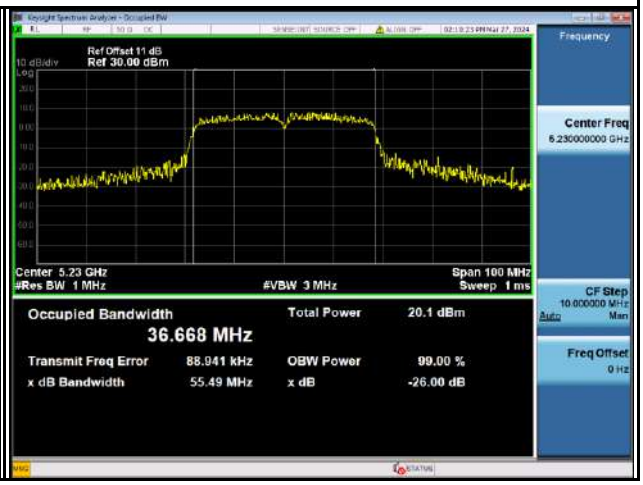
5190 MHz ANT2





5230 MHz ANT2





Test Mode	IEEE 802.11ac (VHT80) ANT1

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5210	80.20	74.77

5210 MHz ANT1

Test Mode	IEEE 802.11ac (VHT80) ANT2

Test Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
5210	86.22	74.96

5210 MHz ANT2

APPENDIX E CONDUCTED OUTPUT POWER

Test Mode	IEEE 802.11a	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	17.61	0.0577	24.00	0.2512	Pass
5200	17.31	0.0538	24.00	0.2512	Pass
5240	17.23	0.0528	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT20) ANT1	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.90	0.0245	24.00	0.2512	Pass
5200	14.08	0.0256	24.00	0.2512	Pass
5240	14.09	0.0256	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT20) ANT2	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	13.76	0.0238	24.00	0.2512	Pass
5200	13.73	0.0236	24.00	0.2512	Pass
5240	13.78	0.0239	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT20) Total	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	16.84	0.0483	24.00	0.2512	Pass
5200	16.92	0.0492	24.00	0.2512	Pass
5240	16.95	0.0495	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT40) ANT1	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	14.25	0.0266	24.00	0.2512	Pass
5230	14.25	0.0266	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT40) ANT2	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	13.35	0.0216	24.00	0.2512	Pass
5230	13.64	0.0231	24.00	0.2512	Pass

Test Mode	IEEE 802.11n (HT40) Total	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	16.83	0.0482	24.00	0.2512	Pass
5230	16.97	0.0497	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT20) ANT1	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	14.22	0.0264	24.00	0.2512	Pass
5200	14.65	0.0292	24.00	0.2512	Pass
5240	14.32	0.0270	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT20) ANT2	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	14.03	0.0253	24.00	0.2512	Pass
5200	14.23	0.0265	24.00	0.2512	Pass
5240	14.07	0.0255	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT20) Total	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5180	17.14	0.0517	24.00	0.2512	Pass
5200	17.46	0.0557	24.00	0.2512	Pass
5240	17.21	0.0526	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT40) ANT1	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	14.33	0.0271	24.00	0.2512	Pass
5230	14.42	0.0277	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT40) ANT2	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	14.01	0.0252	24.00	0.2512	Pass
5230	14.13	0.0259	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT40) Total	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5190	17.18	0.0523	24.00	0.2512	Pass
5230	17.29	0.0536	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT80) ANT1	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	14.51	0.0282	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT80) ANT2	Tested Date	2024/3/27

Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	14.21	0.0264	24.00	0.2512	Pass

Test Mode	IEEE 802.11ac (VHT80) Total	Tested Date	2024/3/27

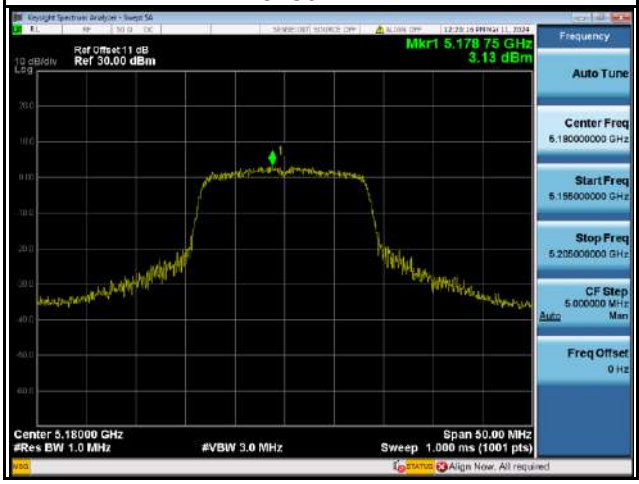
Test Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
5210	17.37	0.0546	24.00	0.2512	Pass

APPENDIX F POWER SPECTRAL DENSITY

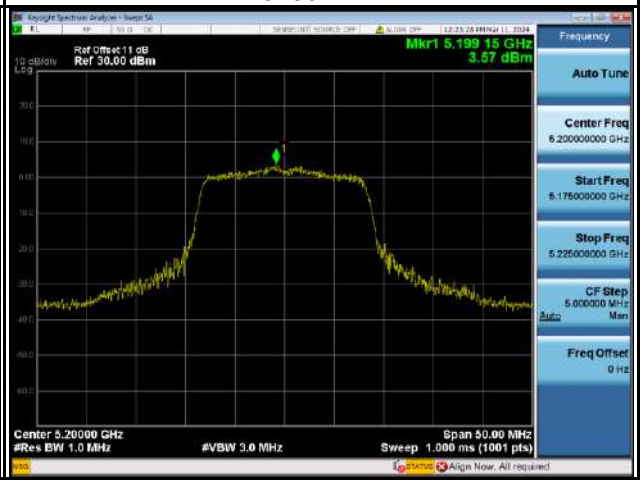
Test Mode	IEEE 802.11a

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	3.13	0.34	3.47	16.08	Pass
5200	3.57	0.34	3.91	16.08	Pass
5240	1.98	0.34	2.32	16.08	Pass

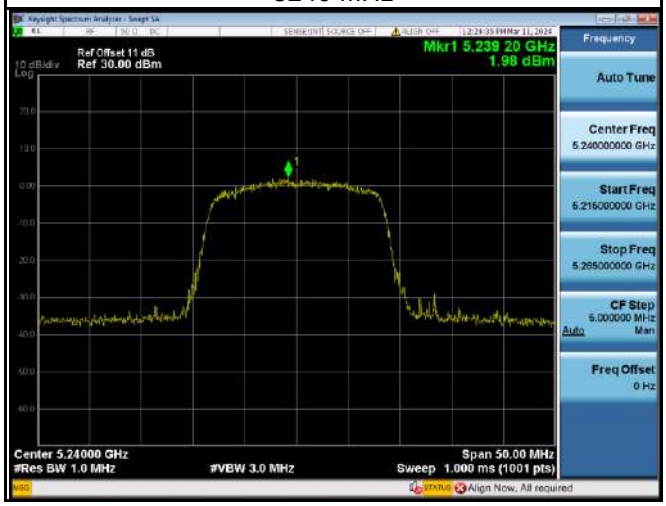
5180 MHz



5200 MHz

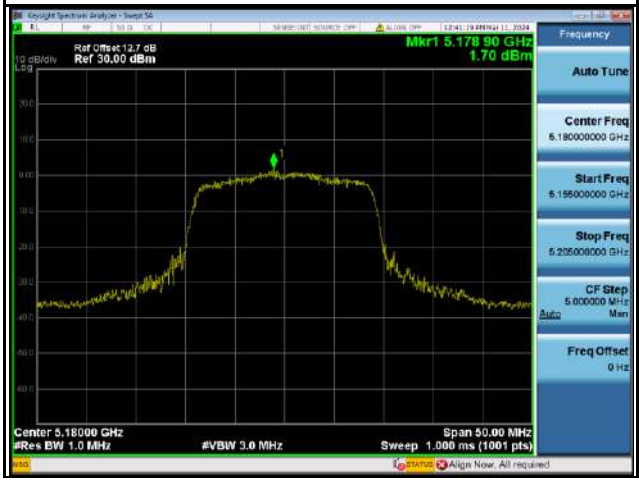
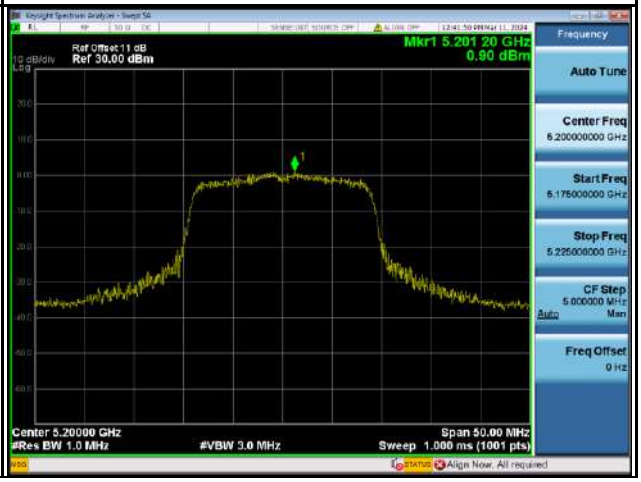


5240 MHz



Test Mode	IEEE 802.11n (HT20) ANT1

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	1.70	0.38	2.08	16.08	Pass
5200	0.90	0.38	1.28	16.08	Pass
5240	1.79	0.38	2.17	16.08	Pass

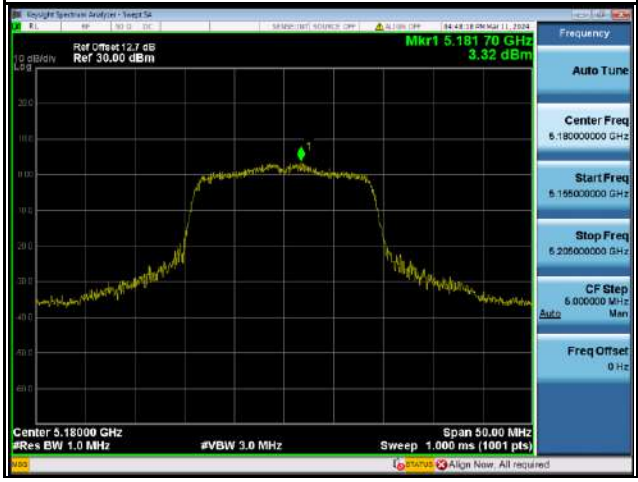
5180 MHz	5200 MHz
	

5240 MHz

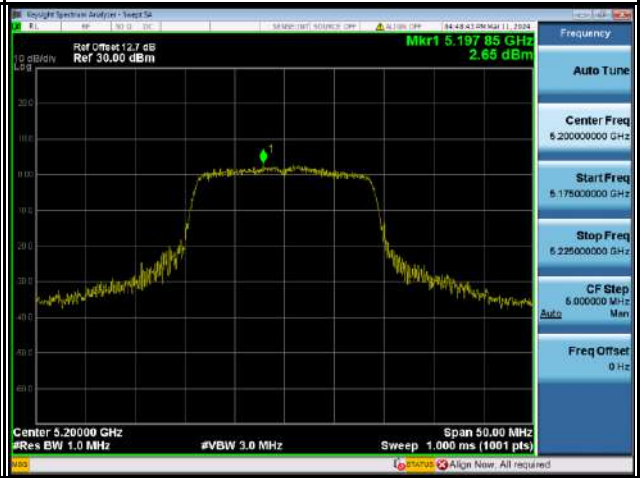
Test Mode	IEEE 802.11n (HT20) ANT2

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	3.32	0.38	3.70	16.08	Pass
5200	2.65	0.38	3.03	16.08	Pass
5240	3.11	0.38	3.49	16.08	Pass

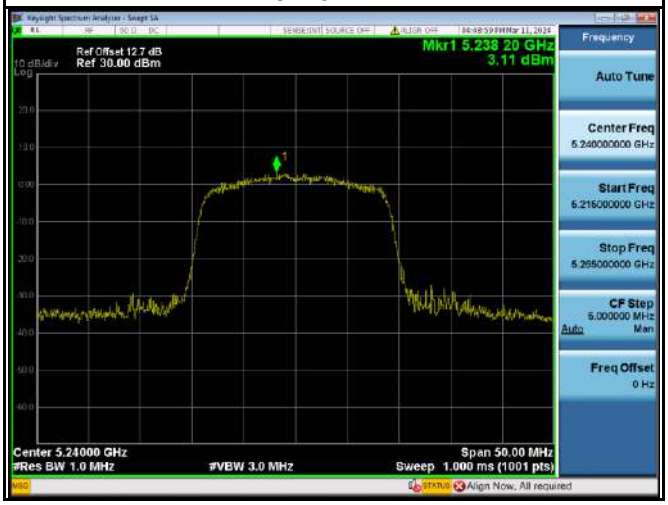
5180 MHz



5200 MHz



5240 MHz



Test Mode	IEEE 802.11n (HT20) Total

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	5.60	0.38	5.98	16.08	Pass
5200	4.87	0.38	5.26	16.08	Pass
5240	5.51	0.38	5.89	16.08	Pass

Test Mode	IEEE 802.11n (HT40) ANT1

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-3.42	0.89	-2.53	16.08	Pass
5230	-3.17	0.89	-2.28	16.08	Pass

5190 MHz	5230 MHz
	

Test Mode	IEEE 802.11n (HT40) ANT2

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-6.58	0.89	-5.69	16.08	Pass
5230	-5.02	0.89	-4.13	16.08	Pass

5190 MHz	5230 MHz
	

Test Mode	IEEE 802.11n (HT40) Total

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-1.71	0.89	-0.82	16.08	Pass
5230	-0.99	0.89	-0.10	16.08	Pass

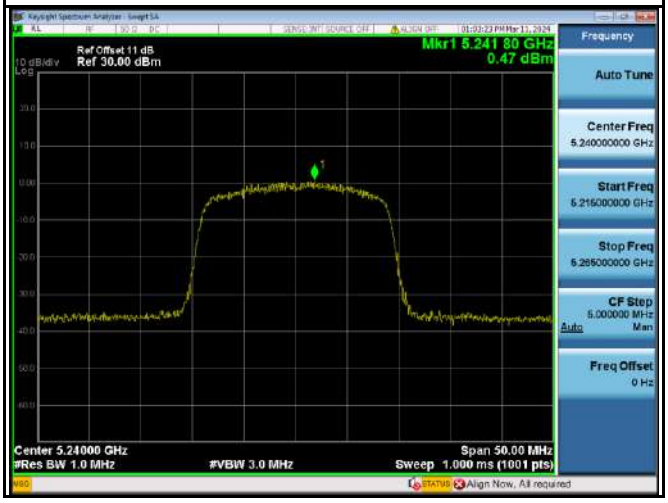
Test Mode	IEEE 802.11ac (VHT20) ANT1

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-0.46	0.28	-0.18	16.08	Pass
5200	-0.63	0.28	-0.35	16.08	Pass
5240	0.47	0.28	0.75	16.08	Pass

5180 MHz

5200 MHz

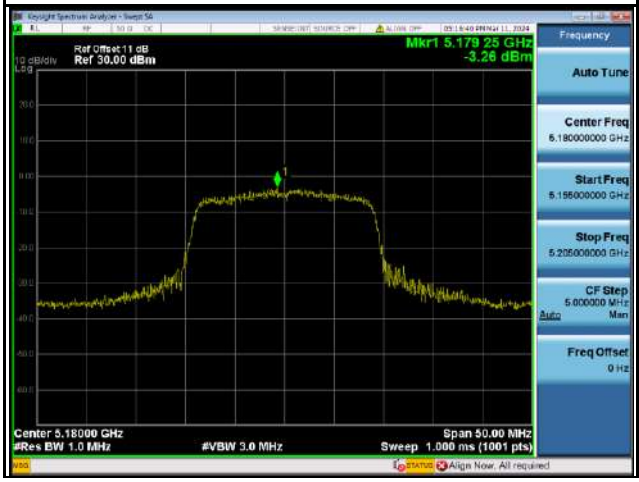
5240 MHz



Test Mode	IEEE 802.11ac (VHT20) ANT2

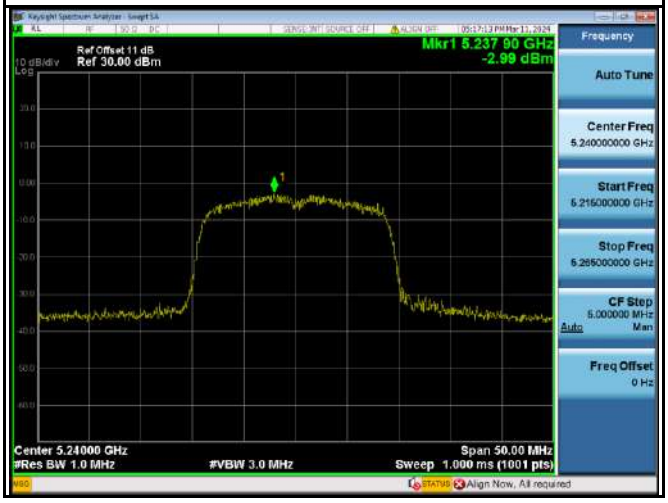
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	-3.26	0.28	-2.98	16.08	Pass
5200	-3.06	0.28	-2.78	16.08	Pass
5240	-2.99	0.28	-2.71	16.08	Pass

5180 MHz



5200 MHz

5240 MHz

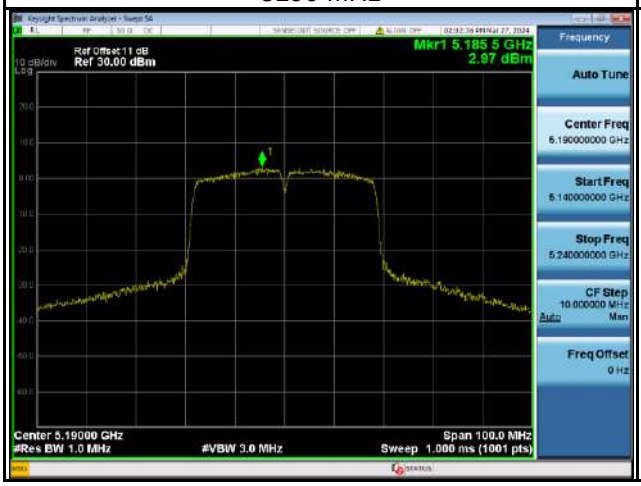
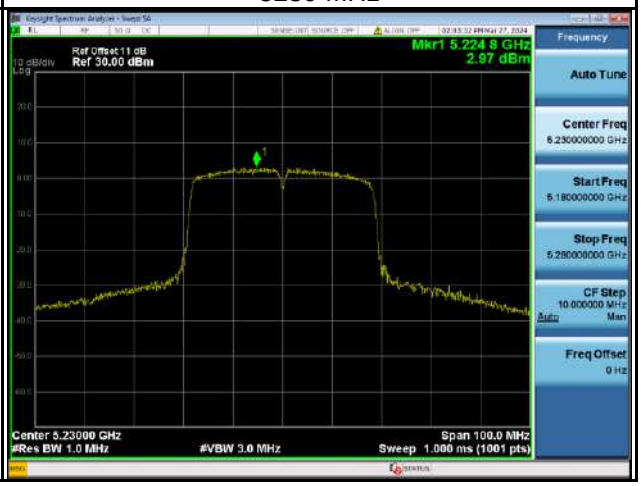


Test Mode	IEEE 802.11ac (VHT20) Total

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5180	1.37	0.28	1.65	16.08	Pass
5200	1.33	0.28	1.61	16.08	Pass
5240	2.09	0.28	2.36	16.08	Pass

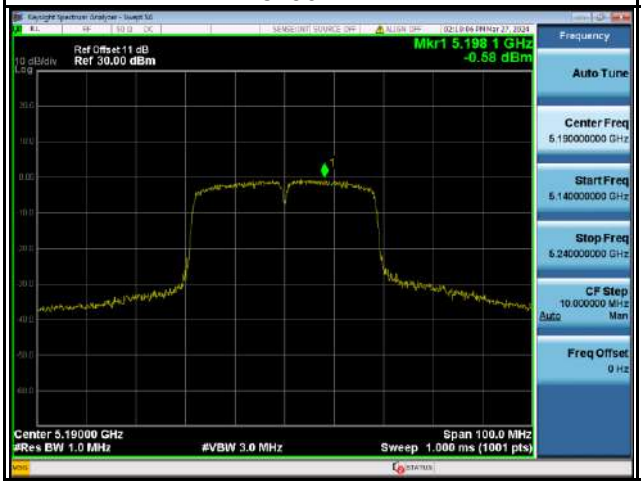
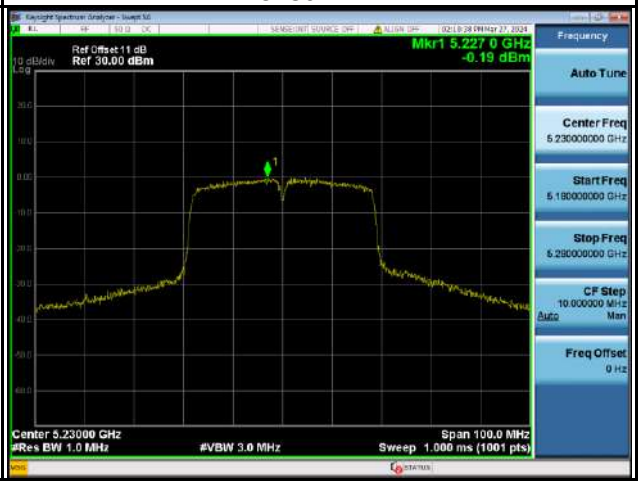
Test Mode	IEEE 802.11ac (VHT40) ANT1

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	2.97	0.65	3.62	16.08	Pass
5230	2.97	0.65	3.62	16.08	Pass

5190 MHz	5230 MHz
	

Test Mode	IEEE 802.11ac (VHT40) ANT2

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	-0.58	0.65	0.07	16.08	Pass
5230	-0.19	0.65	0.46	16.08	Pass

5190 MHz	5230 MHz
	

Test Mode	IEEE 802.11ac (VHT40) Total

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5190	4.56	0.65	5.21	16.08	Pass
5230	4.68	0.65	5.33	16.08	Pass

Test Mode	IEEE 802.11ac (VHT80) ANT1

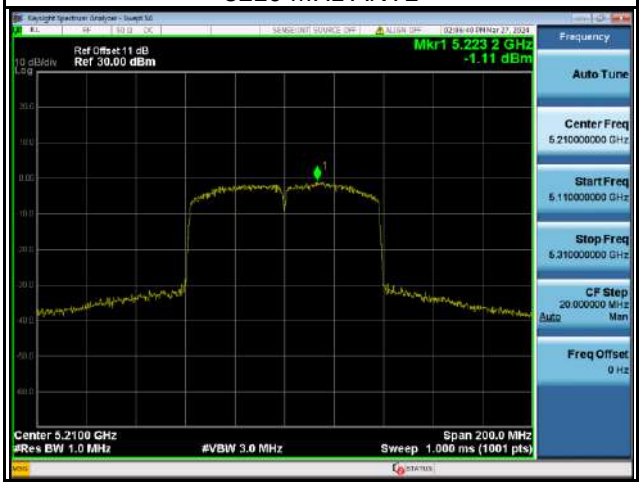
Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	-1.11	1.68	0.57	16.08	Pass

Test Mode	IEEE 802.11ac (VHT80) ANT2

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	-3.6	1.68	-1.92	16.08	Pass

Test Mode	IEEE 802.11ac (VHT80) Total

Test Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Calculated Power Density (dBm/MHz)	Maximum Limit (dBm/MHz)	Result
5210	0.83	1.68	2.51	16.08	Pass

5210 MHz ANT1	5210 MHz ANT2
	

End of Test Report